REPORT No. : SZ18010062W03

TEST REPORT

MANUFACTURER	:	Shenzhen Chainway Information Technology Co.,Ltd.
PRODUCT NAME	:	Mobile Data Terminal
MODEL NAME	:	C72
BRAND NAME	:	CHAINWAY
STANDARD(S)	:	ETSI EN 301 908-1 V11.1.1 ETSI EN 301 908-13 V11.1.2 ETSI TS 136 521-1 V14.1.0 ETSI TS 136 521-2 V14.2.0
TEST DATE	:	2018-01-09 to 2018-02-01
ISSUE DATE	:	2018-04-03

Prepared by: ZhaoWeikun (Test Engineer)

Approved by: PengHuarui (Supervisor)

MORLAB

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DIRECTORY

Change History		
Issue	**Date**	**Reason for change**
1.0	2018-04-03	First edition

1. Technical Information

Note: Provide by manufacturer.

1.1. Manufacturer and Factory Information

Manufacturer:	Shenzhen Chainway Information Technology Co.,Ltd.
Manufacturer Address:	9/F, Building 2, Daqian Industrial Park, Longchang Rd., District 67, Bao'an, Shenzhen
Factory:	Shenzhen Chainway Information Technology Co.,Ltd.
Factory Address:	9/F, Building 2, Daqian Industrial Park, Longchang Rd., District 67, Bao'an, Shenzhen

1.2. Equipment Under Test (EUT) Description

Frequency Bands	E-UTRA FDD 01,03,07,08,20 TDD 40
Modulation Mode	QPSK,16QAM
Power Class	E-UTRA :3

1.2.1 Photographs of the EUT

Please reference ANNEX E.

1.2.2 Identification of all used EUTs

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity	Hardware Version	Software Version
A01	C70SE_MB_V11	C72E_MT6735_V1.1_EU_GITfcd74c4_20180115

2. Test Results

2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	ETSI EN301 908-1 V11.1.1 (2016-07)	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements
2	ETSI EN301 908-13 V11.1.2 (2017-07)	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)

Specific reference documents for testing:

No.	Identity	Document Title
3	ETSI TS 136 521-1 V14.1.0 (2017-01)	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing
4	ETSI TS 136 521-2 V14.2.0 (2017-04)	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)

2.2. Test Conditions

Test Environment Conditions:

Relative Humidity:	30 ... 75 %
Air Pressure:	98 ... 102 kPa
Temperature:	Normal Temperature (NT)= +20 °C to +25 °C Low Temperature (LT) = -20°C High Temperature (HT) = +45°C
Voltage of the EUT:	Normal Voltage (NV) = 3.8V Low Voltage (LV) = 3.6V High Voltage (HV) = 4.35V

Note:The EUT the highest extreme temperature should be 45 degrees and the lowest extreme temperature should be -20 degrees by safety test.(Declare by manufacturer.)

2.3. Test Results lists

2.3.1 Terms in the column "Verdict" for the test results list of this section:

Verdict	Description
PASS	EUT passed this test case
FAIL	EUT failed this test case
Decl.	"Declaration": Morlab has received documents from the applicant and/or manufacturer which show conformity to the applied standards for this test case.
N/A	Test case not applicable for the EUT, please see the column "Note" for detailed

Table A.1: The EN Requirements Table (EN-RT) (Ref. ETSI EN 301 908-1 Annex A)

ETSI EN301 908-1	Test Descriptions & Test Conditions	FDD Band I		FDD Band III		FDD Band VII		FDD Band VIII		FDD Band XX		TDD Band XL		Note
		EUT	Verdict	EUT	Verdict	EUT	Verdict	EUT	Verdict	EUT	Verdict	EUT	Verdict	
4.2.2	Radiated emissions (UE)	A01	PASS	A01	PASS	A01	PASS	A01	PASS	A01	PASS	A01	PASS	
4.2.4	Control and monitoring functions (UE)	A01	PASS	A01	PASS	A01	PASS	A01	PASS	A01	PASS	A01	PASS	

Table A.2: The EN Requirements Table (EN-RT) (Ref. ETSI EN 301 908-13 Annex A)

ETSI EN301 908-13	ETSI TS 136 521-1	Test Descriptions &TestConditions	FDD Band I		FDD Band III		FDD Band VII		Note
			EUT	Verdict	EUT	Verdict	EUT	Verdict	
4.2.2	6.2.2	Transmitter Maximum Output Power							
		NT / NV	A01	PASS	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	A01	PASS	
		HT / HV	A01	PASS	A01	PASS	A01	PASS	
4.2.5	6.3.2	Transmitter Minimum Output Power							
		NT / NV	A01	PASS	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	A01	PASS	

ETSI EN301 908-13	ETSI TS 136 521-1	Test Descriptions &TestConditions	FDD Band I		FDD Band III		FDD Band VII		Note
			EUT	Verdict	EUT	Verdict	EUT	Verdict	
		LT / HV	A01	PASS	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	A01	PASS	
		HT / HV	A01	PASS	A01	PASS	A01	PASS	
4.2.3	6.6.2.1	Transmitter Spectrum Emission Mask	A01	PASS	A01	PASS	A01	PASS	
4.2.11	6.6.2.3	Transmitter Adjacent Channel Leakage Power Ratio							
		NT / NV	A01	PASS	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	A01	PASS	
		HT / HV	A01	PASS	A01	PASS	A01	PASS	
4.2.4	6.6.3.1	Transmitter Spurious Emissions	A01	PASS	A01	PASS	A01	PASS	
4.2.4	6.6.3.2	Spurious emissions band UE co-existen	A01	PASS	A01	PASS	A01	PASS	
4.2.12	7.3	Receiver Reference Sensitivity Level							
		NT / NV	A01	PASS	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	A01	PASS	
		HT / HV	A01	PASS	A01	PASS	A01	PASS	
4.2.6	7.5	Receiver Adjacent Channel Selectivity (ACS)	A01	PASS	A01	PASS	A01	PASS	
4.2.7	7.6.1	Receiver Blocking Characteristics (In band)	A01	PASS	A01	PASS	A01	PASS	
4.2.7	7.6.2	Receiver Blocking Characteristics (Out band)	A01	PASS	A01	PASS	A01	PASS	
4.2.7	7.6.3	Receiver Blocking Characteristics (Narrow band)	A01	PASS	A01	PASS	A01	PASS	
4.2.8	7.7	Receiver Spurious Response	A01	PASS	A01	PASS	A01	PASS	
4.2.9	7.8	Receiver Intermodulation Characteristics	A01	PASS	A01	PASS	A01	PASS	
4.2.10	7.9	Receiver Spurious Emissions	A01	PASS	A01	PASS	A01	PASS	

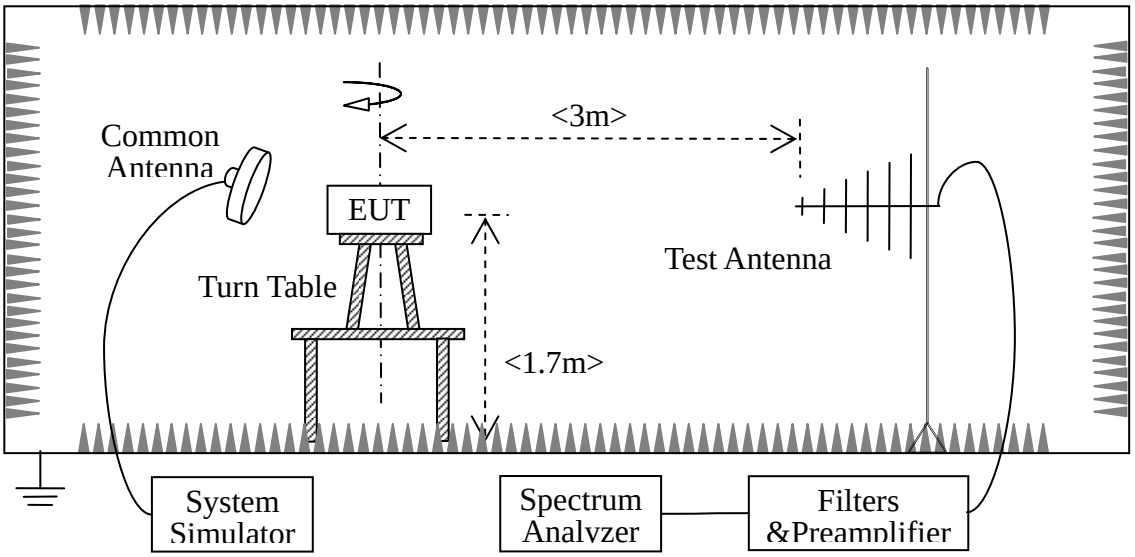
Table A.3: The EN Requirements Table (EN-RT) (Ref. ETSI EN 301 908-13 Annex A)

ETSI EN301 908-13	ETSI TS 136 521-1	Test Descriptions &TestConditions	FDD Band VIII		FDD Band XX		TDD Band XL		Note
			EUT	Verdict	EUT	Verdict	EUT	Verdict	
4.2.2	6.2.2	Transmitter Maximum Output Power							
		NT / NV	A01	PASS	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	A01	PASS	
		HT / HV	A01	PASS	A01	PASS	A01	PASS	
4.2.5	6.3.2	Transmitter Minimum Output Power							
		NT / NV	A01	PASS	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	A01	PASS	
		HT / HV	A01	PASS	A01	PASS	A01	PASS	
4.2.3	6.6.2.1	Transmitter Spectrum Emission Mask	A01	PASS	A01	PASS	A01	PASS	
4.2.11	6.6.2.3	Transmitter Adjacent Channel Leakage Power Ratio							
		NT / NV	A01	PASS	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	A01	PASS	
		HT / HV	A01	PASS	A01	PASS	A01	PASS	
4.2.4	6.6.3.1	Transmitter Spurious Emissions	A01	PASS	A01	PASS	A01	PASS	
4.2.4	6.6.3.2	Spurious emissions band UE co-existen	A01	PASS	A01	PASS	A01	PASS	
4.2.12	7.3	Receiver Reference Sensitivity Level							
		NT / NV	A01	PASS	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	A01	PASS	
		HT / HV	A01	PASS	A01	PASS	A01	PASS	

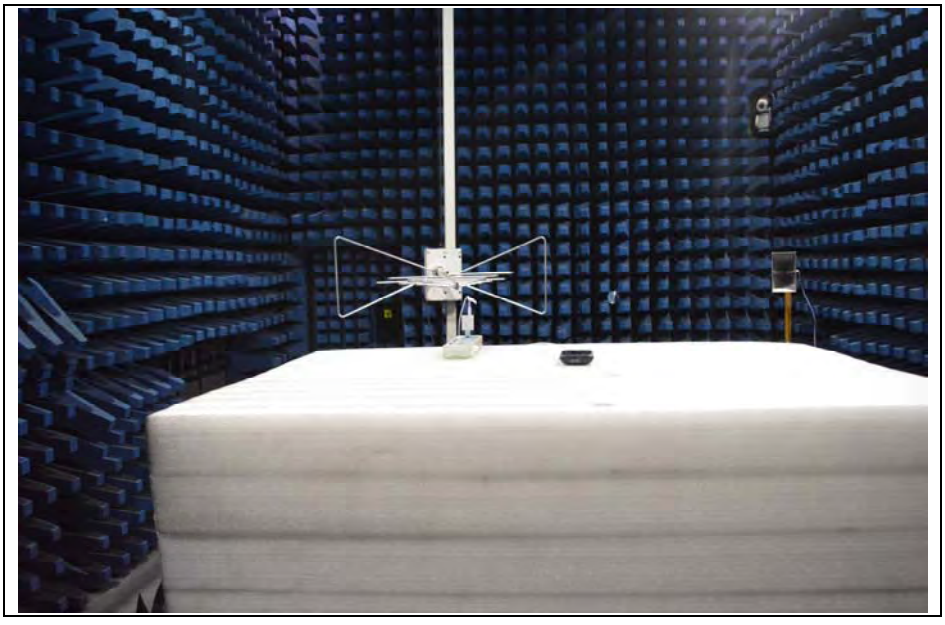
ETSI EN301 908-13	ETSI TS 136 521-1	Test Descriptions &TestConditions	FDD Band VIII		FDD Band XX		TDD Band XL		Note
			EUT	Verdict	EUT	Verdict	EUT	Verdict	
4.2.6	7.5	Receiver Adjacent Channel Selectivity (ACS)	A01	PASS	A01	PASS	A01	PASS	
4.2.7	7.6.1	Receiver Blocking Characteristics (In band)	A01	PASS	A01	PASS	A01	PASS	
4.2.7	7.6.2	Receiver Blocking Characteristics (Out band)	A01	PASS	A01	PASS	A01	PASS	
4.2.7	7.6.3	Receiver Blocking Characteristics (Narrow band)	A01	PASS	A01	PASS	A01	PASS	
4.2.8	7.7	Receiver Spurious Response	A01	PASS	A01	PASS	A01	PASS	
4.2.9	7.8	Receiver Intermodulation Characteristics	A01	PASS	A01	PASS	A01	PASS	
4.2.10	7.9	Receiver Spurious Emissions	A01	PASS	A01	PASS	A01	PASS	

Annex A Test Setup

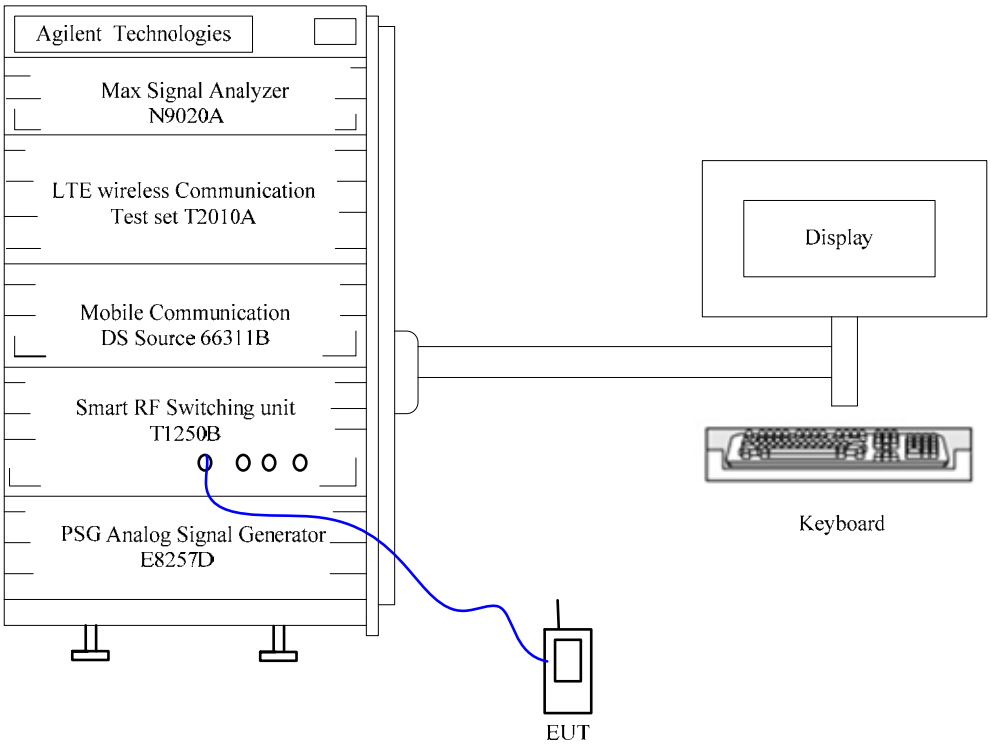
1. Radiated Spurious Emission Test Setup

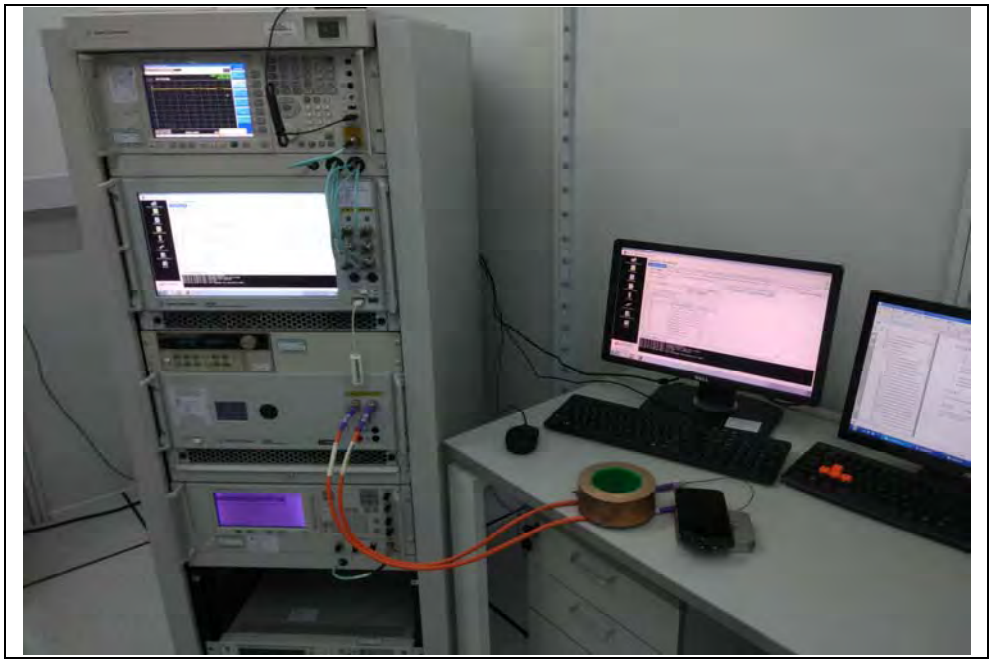


The EUT, which is powered by the Battery charged with the AC Adapter, is located in a 3m Full-Anechoic Chamber; the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading. A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power (i.e. GSM1800MHz band Power Control Level (PCL) = 0/15 and Power Class = 1), and only the test result of the maximum output power was recorded.



2. T4010S Test Setup





Annex B Transmitter Maximum Output Power

Band	UL EARFCN	UL Channel Frequency MHz	Channel Bandwidth MHz	UL RB Allocation	UL RB Start	UL Modulation	MaxPwr dBm
1	18025	1922.5	5	1	0	QPSK	21.714
1	18025	1922.5	5	8	0	QPSK	21.917
1	18300	1950	5	1	0	QPSK	21.57
1	18300	1950	5	8	0	QPSK	21.7
1	18575	1977.5	5	1	24	QPSK	21.564
1	18575	1977.5	5	8	17	QPSK	21.697
1	18100	1930	20	1	0	QPSK	22.059
1	18100	1930	20	18	0	QPSK	21.942
1	18300	1950	20	1	0	QPSK	21.659
1	18300	1950	20	18	0	QPSK	21.735
1	18500	1970	20	1	99	QPSK	21.927
1	18500	1970	20	18	82	QPSK	21.945
3	19207	1710.7	1.4	1	0	QPSK	21.769
3	19575	1747.5	1.4	1	0	QPSK	21.946
3	19575	1747.5	1.4	5	0	QPSK	22.151
3	19943	1784.3	1.4	1	0	QPSK	21.799
3	19225	1712.5	5	1	0	QPSK	21.749
3	19225	1712.5	5	1	24	QPSK	21.702
3	19575	1747.5	5	1	0	QPSK	21.903
3	19575	1747.5	5	1	24	QPSK	21.909
3	19575	1747.5	5	8	0	QPSK	22.094
3	19925	1782.5	5	1	0	QPSK	21.796
3	19925	1782.5	5	1	24	QPSK	21.774
3	19300	1720	20	1	0	QPSK	22.158
3	19300	1720	20	1	99	QPSK	21.744
3	19575	1747.5	20	1	0	QPSK	22.285
3	19575	1747.5	20	1	99	QPSK	22.11
3	19575	1747.5	20	18	0	QPSK	22.228
3	19850	1775	20	1	0	QPSK	22.159
3	19850	1775	20	1	99	QPSK	22.038
7	20775	2502.5	5	1	0	QPSK	21.05
7	20775	2502.5	5	1	24	QPSK	21.101

Band	UL EARFCN	UL Channel Frequency MHz	Channel Bandwidth MHz	UL RB Allocation	UL RB Start	UL Modulation	MaxPwr dBm
7	21100	2535	5	1	0	QPSK	21.811
7	21100	2535	5	1	24	QPSK	21.621
7	21100	2535	5	8	0	QPSK	21.959
7	21425	2567.5	5	1	0	QPSK	21.725
7	21425	2567.5	5	1	24	QPSK	21.634
7	20850	2510	20	1	0	QPSK	21.472
7	20850	2510	20	1	99	QPSK	21.85
7	21100	2535	20	1	0	QPSK	22.154
7	21100	2535	20	1	99	QPSK	21.876
7	21100	2535	20	18	0	QPSK	22.248
7	21350	2560	20	1	0	QPSK	22.279
7	21350	2560	20	1	99	QPSK	21.854
8	21457	880.7	1.4	1	0	QPSK	21.838
8	21625	897.5	1.4	1	0	QPSK	22.548
8	21625	897.5	1.4	5	0	QPSK	22.258
8	21793	914.3	1.4	1	0	QPSK	21.185
8	21475	882.5	5	1	0	QPSK	21.812
8	21475	882.5	5	1	24	QPSK	21.763
8	21625	897.5	5	1	0	QPSK	22.088
8	21625	897.5	5	1	24	QPSK	21.927
8	21625	897.5	5	8	0	QPSK	22.219
8	21775	912.5	5	1	0	QPSK	21.829
8	21775	912.5	5	1	24	QPSK	21.719
8	21500	885	10	1	0	QPSK	22.037
8	21500	885	10	1	49	QPSK	22.125
8	21625	897.5	10	1	0	QPSK	22.254
8	21625	897.5	10	1	49	QPSK	22.219
8	21625	897.5	10	12	0	QPSK	22.241
8	21750	910	10	1	0	QPSK	22.218
8	21750	910	10	1	49	QPSK	22.038
20	24175	834.5	5	1	0	QPSK	22.006
20	24175	834.5	5	1	24	QPSK	21.799
20	24300	847	5	1	0	QPSK	21.654
20	24300	847	5	1	24	QPSK	21.606
20	24300	847	5	8	0	QPSK	21.862

Band	UL EARFCN	UL Channel Frequency MHz	Channel Bandwidth MHz	UL RB Allocation	UL RB Start	UL Modulation	MaxPwr dBm
20	24425	859.5	5	1	0	QPSK	21.775
20	24425	859.5	5	1	24	QPSK	21.112
20	24250	842	20	1	0	QPSK	22.233
20	24250	842	20	1	99	QPSK	21.776
20	24300	847	20	1	0	QPSK	22.205
20	24300	847	20	1	99	QPSK	21.893
20	24300	847	20	18	0	QPSK	22.08
20	24350	852	20	1	0	QPSK	22.123
20	24350	852	20	1	99	QPSK	21.981
20	24200	837	10	1	0	QPSK	22.153
20	24200	837	10	1	49	QPSK	21.947
20	24300	847	10	1	0	QPSK	21.835
20	24300	847	10	1	49	QPSK	21.871
20	24300	847	10	12	0	QPSK	21.873
20	24400	857	10	1	0	QPSK	21.948
20	24400	857	10	1	49	QPSK	21.982
40	38675	2302.5	5	1	0	QPSK	22.293
40	38675	2302.5	5	8	0	QPSK	22.56
40	39150	2350	5	1	0	QPSK	22.786
40	39150	2350	5	8	0	QPSK	22.92
40	39625	2397.5	5	1	24	QPSK	21.994
40	39625	2397.5	5	8	17	QPSK	22.374
40	38750	2310	20	1	0	QPSK	22.599
40	38750	2310	20	18	0	QPSK	22.529
40	39150	2350	20	1	0	QPSK	23.359
40	39150	2350	20	18	0	QPSK	23.301
40	39550	2390	20	1	99	QPSK	21.323
40	39550	2390	20	18	82	QPSK	21.608

Annex C Transmitter Spurious Emissions

Band	UL Channel Frequency MHz	Channel Bandwidth MHz	UL RB Allocation	UL RB Start	Spurious Frequency MHz	Spurious Level dBm	Verdict
1	1922.5	5	1	0	0.0102	-54.464	Pass
1	1922.5	5	1	0	0.155	-57.331	Pass
1	1922.5	5	1	0	482.55	-69.735	Pass
1	1922.5	5	1	0	12185.5322	-52.501	Pass
1	1922.5	5	1	24	0.0098	-56.737	Pass
1	1922.5	5	1	24	0.155	-57.002	Pass
1	1922.5	5	1	24	481.65	-69.797	Pass
1	1922.5	5	1	24	12185.5322	-52.624	Pass
1	1922.5	5	25	0	0.0098	-57.013	Pass
1	1922.5	5	25	0	0.155	-57.634	Pass
1	1922.5	5	25	0	496.75	-69.656	Pass
1	1922.5	5	25	0	1935.5	-40.43	Pass
1	1950	5	1	0	0.0115	-56.958	Pass
1	1950	5	1	0	0.155	-58.908	Pass
1	1950	5	1	0	483.55	-69.689	Pass
1	1950	5	1	0	3895.5256	-52.222	Pass
1	1950	5	1	24	0.0105	-56.362	Pass
1	1950	5	1	24	0.155	-58.785	Pass
1	1950	5	1	24	494.65	-69.674	Pass
1	1950	5	1	24	3904.5234	-51.022	Pass
1	1950	5	25	0	0.0128	-56.408	Pass
1	1950	5	25	0	0.155	-57.798	Pass
1	1950	5	25	0	491.75	-69.504	Pass
1	1950	5	25	0	1937	-43.314	Pass
1	1977.5	5	1	0	0.0102	-55.565	Pass
1	1977.5	5	1	0	0.155	-56.855	Pass
1	1977.5	5	1	0	497.45	-69.78	Pass
1	1977.5	5	1	0	12185.0323	-52.569	Pass
1	1977.5	5	1	24	0.0098	-55.598	Pass
1	1977.5	5	1	24	0.165	-58.911	Pass
1	1977.5	5	1	24	494.75	-69.678	Pass
1	1977.5	5	1	24	1964.5	-50.335	Pass

Band	UL Channel Frequency MHz	Channel Bandwidth MHz	UL RB Allocation	UL RB Start	Spurious Frequency MHz	Spurious Level dBm	Verdict
1	1977.5	5	25	0	0.0102	-56.173	Pass
1	1977.5	5	25	0	0.165	-58.115	Pass
1	1977.5	5	25	0	491.45	-69.508	Pass
1	1977.5	5	25	0	1964.5	-38.789	Pass
1	1930	20	1	0	0.0105	-57.527	Pass
1	1930	20	1	0	0.155	-58.167	Pass
1	1930	20	1	0	482.65	-69.716	Pass
1	1930	20	1	0	12184.5323	-52.611	Pass
1	1930	20	1	99	0.0098	-55.028	Pass
1	1930	20	1	99	0.155	-58.784	Pass
1	1930	20	1	99	490.75	-69.68	Pass
1	1930	20	1	99	1974.5	-41.199	Pass
1	1930	20	100	0	0.0098	-56.933	Pass
1	1930	20	100	0	0.155	-57.464	Pass
1	1930	20	100	0	495.85	-69.778	Pass
1	1930	20	100	0	1965.5	-36.263	Pass
1	1950	20	1	0	0.0105	-56.332	Pass
1	1950	20	1	0	0.155	-58.007	Pass
1	1950	20	1	0	497.45	-69.685	Pass
1	1950	20	1	0	1905.5049	-39.529	Pass
1	1950	20	1	99	0.0102	-54.702	Pass
1	1950	20	1	99	0.155	-58.071	Pass
1	1950	20	1	99	493.25	-69.544	Pass
1	1950	20	1	99	1994.5	-40.767	Pass
1	1950	20	100	0	0.0105	-54.561	Pass
1	1950	20	100	0	0.155	-58.003	Pass
1	1950	20	100	0	481.35	-69.8	Pass
1	1950	20	100	0	1914.5	-37.603	Pass
1	1970	20	1	0	0.0095	-55.918	Pass
1	1970	20	1	0	0.155	-56.655	Pass
1	1970	20	1	0	494.25	-69.541	Pass
1	1970	20	1	0	1925.5048	-37.109	Pass
1	1970	20	1	99	0.0115	-56.185	Pass
1	1970	20	1	99	0.155	-58.556	Pass
1	1970	20	1	99	485.95	-69.722	Pass

Band	UL Channel Frequency MHz	Channel Bandwidth MHz	UL RB Allocation	UL RB Start	Spurious Frequency MHz	Spurious Level dBm	Verdict
1	1970	20	1	99	12185.0323	-52.643	Pass
1	1970	20	100	0	0.0098	-55.663	Pass
1	1970	20	100	0	0.155	-56.911	Pass
1	1970	20	100	0	494.95	-69.697	Pass
1	1970	20	100	0	1934.0003	-35.628	Pass
3	1710.7	1.4	1	0	0.0095	-54.308	Pass
3	1710.7	1.4	1	0	0.155	-57.608	Pass
3	1710.7	1.4	1	0	497.65	-69.703	Pass
3	1710.7	1.4	1	0	3420	-46.186	Pass
3	1710.7	1.4	1	5	0.0095	-54.973	Pass
3	1710.7	1.4	1	5	0.155	-57.584	Pass
3	1710.7	1.4	1	5	477.05	-69.667	Pass
3	1710.7	1.4	1	5	1714.7	-47.532	Pass
3	1710.7	1.4	6	0	0.0098	-57.266	Pass
3	1710.7	1.4	6	0	0.155	-56.828	Pass
3	1710.7	1.4	6	0	498.55	-69.658	Pass
3	1710.7	1.4	6	0	1706.7	-42.152	Pass
3	1747.5	1.4	1	0	0.0135	-56.224	Pass
3	1747.5	1.4	1	0	0.165	-58.706	Pass
3	1747.5	1.4	1	0	481.75	-69.552	Pass
3	1747.5	1.4	1	0	1743.5	-44.321	Pass
3	1747.5	1.4	1	5	0.0095	-55.343	Pass
3	1747.5	1.4	1	5	0.155	-58.217	Pass
3	1747.5	1.4	1	5	495.45	-69.797	Pass
3	1747.5	1.4	1	5	1751.5	-45.813	Pass
3	1747.5	1.4	6	0	0.0095	-56.992	Pass
3	1747.5	1.4	6	0	0.155	-58.031	Pass
3	1747.5	1.4	6	0	491.35	-69.725	Pass
3	1747.5	1.4	6	0	1743.5	-41.318	Pass
3	1784.3	1.4	1	0	0.0105	-55.797	Pass
3	1784.3	1.4	1	0	0.155	-57.499	Pass
3	1784.3	1.4	1	0	490.05	-69.677	Pass
3	1784.3	1.4	1	0	1780.3	-44.944	Pass
3	1784.3	1.4	1	5	0.0095	-55.214	Pass
3	1784.3	1.4	1	5	0.155	-56.686	Pass

Band	UL Channel Frequency MHz	Channel Bandwidth MHz	UL RB Allocation	UL RB Start	Spurious Frequency MHz	Spurious Level dBm	Verdict
3	1784.3	1.4	1	5	491.55	-69.627	Pass
3	1784.3	1.4	1	5	1780.3	-45.617	Pass
3	1784.3	1.4	6	0	0.0108	-55.281	Pass
3	1784.3	1.4	6	0	0.155	-57.255	Pass
3	1784.3	1.4	6	0	489.55	-69.659	Pass
3	1784.3	1.4	6	0	1780.3	-38.381	Pass
3	1712.5	5	1	0	0.0118	-56.382	Pass
3	1712.5	5	1	0	0.155	-57.566	Pass
3	1712.5	5	1	0	492.65	-69.702	Pass
3	1712.5	5	1	0	3420	-44.667	Pass
3	1712.5	5	1	24	0.0112	-55.697	Pass
3	1712.5	5	1	24	0.155	-57.732	Pass
3	1712.5	5	1	24	492.95	-69.582	Pass
3	1712.5	5	1	24	3429.2857	-48.309	Pass
3	1712.5	5	25	0	0.0098	-54.408	Pass
3	1712.5	5	25	0	0.155	-58.877	Pass
3	1712.5	5	25	0	494.75	-69.706	Pass
3	1712.5	5	25	0	1725.5	-44.105	Pass
3	1747.5	5	1	0	0.0095	-56.632	Pass
3	1747.5	5	1	0	0.155	-58.175	Pass
3	1747.5	5	1	0	488.95	-69.652	Pass
3	1747.5	5	1	0	3490	-47.765	Pass
3	1747.5	5	1	24	0.0102	-57.576	Pass
3	1747.5	5	1	24	0.155	-57.878	Pass
3	1747.5	5	1	24	474.15	-69.798	Pass
3	1747.5	5	1	24	3499.3571	-49.635	Pass
3	1747.5	5	25	0	0.0098	-55.596	Pass
3	1747.5	5	25	0	0.155	-58.799	Pass
3	1747.5	5	25	0	498.05	-69.525	Pass
3	1747.5	5	25	0	1734.5	-42.466	Pass
3	1782.5	5	1	0	0.0095	-55.585	Pass
3	1782.5	5	1	0	0.155	-57.467	Pass
3	1782.5	5	1	0	483.95	-69.616	Pass
3	1782.5	5	1	0	3560	-49.063	Pass
3	1782.5	5	1	24	0.0108	-54.301	Pass

Band	UL Channel Frequency MHz	Channel Bandwidth MHz	UL RB Allocation	UL RB Start	Spurious Frequency MHz	Spurious Level dBm	Verdict
3	1782.5	5	1	24	0.165	-57.996	Pass
3	1782.5	5	1	24	490.35	-69.702	Pass
3	1782.5	5	1	24	3569.2857	-50.709	Pass
3	1782.5	5	25	0	0.0098	-55.162	Pass
3	1782.5	5	25	0	0.155	-56.34	Pass
3	1782.5	5	25	0	476.45	-69.801	Pass
3	1782.5	5	25	0	1769.5	-40.129	Pass
3	1720	20	1	0	0.0102	-57.96	Pass
3	1720	20	1	0	0.155	-58.028	Pass
3	1720	20	1	0	484.85	-69.719	Pass
3	1720	20	1	0	3422.0952	-48.901	Pass
3	1720	20	1	99	0.0112	-56.857	Pass
3	1720	20	1	99	0.155	-57.132	Pass
3	1720	20	1	99	492.35	-69.818	Pass
3	1720	20	1	99	1764.5	-42.237	Pass
3	1720	20	100	0	0.0105	-54.061	Pass
3	1720	20	100	0	0.155	-58.188	Pass
3	1720	20	100	0	481.55	-69.744	Pass
3	1720	20	100	0	1755.5	-41.021	Pass
3	1747.5	20	1	0	0.0102	-56.511	Pass
3	1747.5	20	1	0	0.165	-59.363	Pass
3	1747.5	20	1	0	484.35	-69.564	Pass
3	1747.5	20	1	0	1703	-46.58	Pass
3	1747.5	20	1	99	0.0105	-55.479	Pass
3	1747.5	20	1	99	0.165	-57.724	Pass
3	1747.5	20	1	99	499.65	-69.633	Pass
3	1747.5	20	1	99	1791.9973	-46.207	Pass
3	1747.5	20	100	0	0.0095	-55.91	Pass
3	1747.5	20	100	0	0.155	-58.253	Pass
3	1747.5	20	100	0	486.15	-69.684	Pass
3	1747.5	20	100	0	1783	-39.273	Pass
3	1775	20	1	0	0.0098	-56.418	Pass
3	1775	20	1	0	0.165	-57.828	Pass
3	1775	20	1	0	486.45	-69.632	Pass
3	1775	20	1	0	1730.5061	-42.831	Pass

Band	UL Channel Frequency MHz	Channel Bandwidth MHz	UL RB Allocation	UL RB Start	Spurious Frequency MHz	Spurious Level dBm	Verdict
3	1775	20	1	99	0.0112	-55.809	Pass
3	1775	20	1	99	0.155	-57.725	Pass
3	1775	20	1	99	483.55	-69.518	Pass
3	1775	20	1	99	3567.7381	-50.526	Pass
3	1775	20	100	0	0.0105	-55.343	Pass
3	1775	20	100	0	0.155	-58.761	Pass
3	1775	20	100	0	493.85	-69.65	Pass
3	1775	20	100	0	1739.0003	-38.177	Pass
7	2502.5	5	1	0	0.0095	-56.161	Pass
7	2502.5	5	1	0	0.155	-59.26	Pass
7	2502.5	5	1	0	495.15	-69.798	Pass
7	2502.5	5	1	0	12185.5322	-52.695	Pass
7	2502.5	5	1	24	0.0118	-55.597	Pass
7	2502.5	5	1	24	0.155	-57.7	Pass
7	2502.5	5	1	24	494.05	-69.73	Pass
7	2502.5	5	1	24	12185.5322	-52.616	Pass
7	2502.5	5	25	0	0.0102	-55.337	Pass
7	2502.5	5	25	0	0.155	-57.356	Pass
7	2502.5	5	25	0	495.45	-69.348	Pass
7	2502.5	5	25	0	2489.5	-46.284	Pass
7	2535	5	1	0	0.0138	-57.446	Pass
7	2535	5	1	0	0.165	-58.228	Pass
7	2535	5	1	0	491.85	-69.763	Pass
7	2535	5	1	0	12185.0323	-52.618	Pass
7	2535	5	1	24	0.0098	-53.784	Pass
7	2535	5	1	24	0.155	-56.752	Pass
7	2535	5	1	24	486.25	-69.748	Pass
7	2535	5	1	24	12186.0322	-52.524	Pass
7	2535	5	25	0	0.0112	-55.503	Pass
7	2535	5	25	0	0.155	-56.536	Pass
7	2535	5	25	0	484.95	-69.787	Pass
7	2535	5	25	0	2522	-43.328	Pass
7	2567.5	5	1	0	0.0098	-54.986	Pass
7	2567.5	5	1	0	0.155	-58.222	Pass
7	2567.5	5	1	0	497.25	-69.669	Pass

Band	UL Channel Frequency MHz	Channel Bandwidth MHz	UL RB Allocation	UL RB Start	Spurious Frequency MHz	Spurious Level dBm	Verdict
7	2567.5	5	1	0	12185.5322	-52.612	Pass
7	2567.5	5	1	24	0.0102	-54.12	Pass
7	2567.5	5	1	24	0.155	-57.433	Pass
7	2567.5	5	1	24	491.65	-69.74	Pass
7	2567.5	5	1	24	12185.0323	-52.614	Pass
7	2567.5	5	25	0	0.0098	-55.673	Pass
7	2567.5	5	25	0	0.155	-57.775	Pass
7	2567.5	5	25	0	495.25	-69.671	Pass
7	2567.5	5	25	0	2554.0002	-43.176	Pass
7	2510	20	1	0	0.0108	-57.12	Pass
7	2510	20	1	0	0.155	-57.711	Pass
7	2510	20	1	0	486.05	-69.561	Pass
7	2510	20	1	0	12185.0323	-52.608	Pass
7	2510	20	1	99	0.0095	-55.449	Pass
7	2510	20	1	99	0.155	-58.611	Pass
7	2510	20	1	99	489.55	-69.323	Pass
7	2510	20	1	99	2554.5	-45.467	Pass
7	2510	20	100	0	0.0095	-54.483	Pass
7	2510	20	100	0	0.155	-58.352	Pass
7	2510	20	100	0	478.65	-69.65	Pass
7	2510	20	100	0	2545.5	-41.109	Pass
7	2535	20	1	0	0.0122	-56.865	Pass
7	2535	20	1	0	0.155	-58.134	Pass
7	2535	20	1	0	485.35	-69.83	Pass
7	2535	20	1	0	2490.503	-45.088	Pass
7	2535	20	1	99	0.0115	-56.128	Pass
7	2535	20	1	99	0.155	-57.23	Pass
7	2535	20	1	99	476.55	-69.697	Pass
7	2535	20	1	99	2579.5	-42.312	Pass
7	2535	20	100	0	0.0105	-54.636	Pass
7	2535	20	100	0	0.155	-57.731	Pass
7	2535	20	100	0	499.65	-69.666	Pass
7	2535	20	100	0	2499.5	-38.889	Pass
7	2560	20	1	0	0.0098	-53.964	Pass
7	2560	20	1	0	0.155	-56.415	Pass

Band	UL Channel Frequency MHz	Channel Bandwidth MHz	UL RB Allocation	UL RB Start	Spurious Frequency MHz	Spurious Level dBm	Verdict
7	2560	20	1	0	497.25	-69.58	Pass
7	2560	20	1	0	2515.503	-39.556	Pass
7	2560	20	1	99	0.0108	-54.925	Pass
7	2560	20	1	99	0.155	-56.611	Pass
7	2560	20	1	99	497.75	-69.685	Pass
7	2560	20	1	99	12184.0323	-52.667	Pass
7	2560	20	100	0	0.0102	-57.123	Pass
7	2560	20	100	0	0.155	-57.272	Pass
7	2560	20	100	0	478.85	-69.682	Pass
7	2560	20	100	0	2524.5	-39.151	Pass
8	880.7	1.4	1	0	0.0098	-55.783	Pass
8	880.7	1.4	1	0	0.155	-57.257	Pass
8	880.7	1.4	1	0	884.25	-57.215	Pass
8	880.7	1.4	1	0	1760	-43.733	Pass
8	880.7	1.4	1	5	0.0105	-53.788	Pass
8	880.7	1.4	1	5	0.155	-58.141	Pass
8	880.7	1.4	1	5	877.15	-57.794	Pass
8	880.7	1.4	1	5	2643.4852	-48.069	Pass
8	880.7	1.4	6	0	0.0112	-56.807	Pass
8	880.7	1.4	6	0	0.155	-57.72	Pass
8	880.7	1.4	6	0	884.25	-50.243	Pass
8	880.7	1.4	6	0	2641.9857	-50.624	Pass
8	897.5	1.4	1	0	0.0105	-56.631	Pass
8	897.5	1.4	1	0	0.155	-58.421	Pass
8	897.5	1.4	1	0	893.55	-56.894	Pass
8	897.5	1.4	1	0	1793.6	-42.245	Pass
8	897.5	1.4	1	5	0.0102	-56.197	Pass
8	897.5	1.4	1	5	0.155	-58.077	Pass
8	897.5	1.4	1	5	893.95	-56.515	Pass
8	897.5	1.4	1	5	2693.7372	-49.717	Pass
8	897.5	1.4	6	0	0.0095	-55.69	Pass
8	897.5	1.4	6	0	0.155	-58.566	Pass
8	897.5	1.4	6	0	901.05	-50.346	Pass
8	897.5	1.4	6	0	1885.3839	-51.588	Pass
8	914.3	1.4	1	0	0.0112	-56.306	Pass

Band	UL Channel Frequency MHz	Channel Bandwidth MHz	UL RB Allocation	UL RB Start	Spurious Frequency MHz	Spurious Level dBm	Verdict
8	914.3	1.4	1	0	0.155	-57.742	Pass
8	914.3	1.4	1	0	910.25	-56.055	Pass
8	914.3	1.4	1	0	1827.2	-41.491	Pass
8	914.3	1.4	1	5	0.0105	-56.292	Pass
8	914.3	1.4	1	5	0.155	-56.625	Pass
8	914.3	1.4	1	5	910.75	-55.832	Pass
8	914.3	1.4	1	5	1830.5	-50.862	Pass
8	914.3	1.4	6	0	0.0098	-55.305	Pass
8	914.3	1.4	6	0	0.155	-57.885	Pass
8	914.3	1.4	6	0	910.75	-50.38	Pass
8	914.3	1.4	6	0	1827.2	-51.375	Pass
8	882.5	5	1	0	0.0108	-56.019	Pass
8	882.5	5	1	0	0.155	-57.468	Pass
8	882.5	5	1	0	925.75	-65.677	Pass
8	882.5	5	1	0	1760	-45.783	Pass
8	882.5	5	1	24	0.0105	-56.742	Pass
8	882.5	5	1	24	0.155	-57.516	Pass
8	882.5	5	1	24	927.75	-67.254	Pass
8	882.5	5	1	24	2654	-50.413	Pass
8	882.5	5	25	0	0.0095	-57.527	Pass
8	882.5	5	25	0	0.155	-57.513	Pass
8	882.5	5	25	0	896.25	-56.616	Pass
8	882.5	5	25	0	1879.5	-51.546	Pass
8	897.5	5	1	0	0.0095	-55.904	Pass
8	897.5	5	1	0	0.155	-57.908	Pass
8	897.5	5	1	0	912.55	-66.226	Pass
8	897.5	5	1	0	1790	-44.34	Pass
8	897.5	5	1	24	0.0095	-56.47	Pass
8	897.5	5	1	24	0.155	-57.472	Pass
8	897.5	5	1	24	942.65	-67.13	Pass
8	897.5	5	1	24	2699	-49.023	Pass
8	897.5	5	25	0	0.0128	-57.542	Pass
8	897.5	5	25	0	0.155	-57.983	Pass
8	897.5	5	25	0	884.15	-54.016	Pass
8	897.5	5	25	0	1891	-51.546	Pass

Band	UL Channel Frequency MHz	Channel Bandwidth MHz	UL RB Allocation	UL RB Start	Spurious Frequency MHz	Spurious Level dBm	Verdict
8	912.5	5	1	0	0.0102	-56.008	Pass
8	912.5	5	1	0	0.155	-57.883	Pass
8	912.5	5	1	0	957.65	-67.346	Pass
8	912.5	5	1	0	1820	-44.78	Pass
8	912.5	5	1	24	0.0115	-56.377	Pass
8	912.5	5	1	24	0.155	-58.252	Pass
8	912.5	5	1	24	955.95	-66.24	Pass
8	912.5	5	1	24	1889	-51.529	Pass
8	912.5	5	25	0	0.0108	-56.546	Pass
8	912.5	5	25	0	0.165	-57.106	Pass
8	912.5	5	25	0	899.45	-54.149	Pass
8	912.5	5	25	0	1885.5	-51.579	Pass
8	885	10	1	0	0.0118	-58.527	Pass
8	885	10	1	0	0.155	-57.875	Pass
8	885	10	1	0	929.95	-67.564	Pass
8	885	10	1	0	2641.5	-48.146	Pass
8	885	10	1	49	0.0102	-54.646	Pass
8	885	10	1	49	0.155	-57.097	Pass
8	885	10	1	49	907.05	-48.801	Pass
8	885	10	1	49	2668	-47.829	Pass
8	885	10	50	0	0.0118	-56.427	Pass
8	885	10	50	0	0.155	-57.656	Pass
8	885	10	50	0	905.25	-50.204	Pass
8	885	10	50	0	1879	-51.631	Pass
8	897.5	10	1	0	0.0102	-55.861	Pass
8	897.5	10	1	0	0.175	-59.048	Pass
8	897.5	10	1	0	875.45	-44.459	Pass
8	897.5	10	1	0	2679.5	-49.301	Pass
8	897.5	10	1	49	0.0108	-57.039	Pass
8	897.5	10	1	49	0.155	-58.095	Pass
8	897.5	10	1	49	919.55	-57.637	Pass
8	897.5	10	1	49	2705.5	-48.831	Pass
8	897.5	10	50	0	0.0095	-53.597	Pass
8	897.5	10	50	0	0.155	-57.31	Pass
8	897.5	10	50	0	877.45	-51.795	Pass

Band	UL Channel Frequency MHz	Channel Bandwidth MHz	UL RB Allocation	UL RB Start	Spurious Frequency MHz	Spurious Level dBm	Verdict
8	897.5	10	50	0	1890	-51.572	Pass
8	910	10	1	0	0.0095	-55.947	Pass
8	910	10	1	0	0.155	-58.822	Pass
8	910	10	1	0	887.95	-46.645	Pass
8	910	10	1	0	2716.5	-50.993	Pass
8	910	10	1	49	0.0125	-56.571	Pass
8	910	10	1	49	0.155	-57.637	Pass
8	910	10	1	49	951.05	-66.469	Pass
8	910	10	1	49	1886.5	-51.554	Pass
8	910	10	50	0	0.0098	-55.978	Pass
8	910	10	50	0	0.155	-57.682	Pass
8	910	10	50	0	889.95	-51.311	Pass
8	910	10	50	0	1880	-51.581	Pass
20	834.5	5	1	0	0.0095	-57.623	Pass
20	834.5	5	1	0	0.155	-57.537	Pass
20	834.5	5	1	0	849.55	-65.901	Pass
20	834.5	5	1	0	1664	-45.008	Pass
20	834.5	5	1	24	0.0095	-55.193	Pass
20	834.5	5	1	24	0.165	-58.128	Pass
20	834.5	5	1	24	791.45	-67.138	Pass
20	834.5	5	1	24	2510	-49.324	Pass
20	834.5	5	25	0	0.0112	-57.506	Pass
20	834.5	5	25	0	0.155	-57.506	Pass
20	834.5	5	25	0	847.05	-48.272	Pass
20	834.5	5	25	0	1880.5	-51.614	Pass
20	847	5	1	0	0.0112	-56.723	Pass
20	847	5	1	0	0.155	-56.654	Pass
20	847	5	1	0	862.05	-67.294	Pass
20	847	5	1	0	1689	-44.871	Pass
20	847	5	1	24	0.0095	-54.764	Pass
20	847	5	1	24	0.155	-57.834	Pass
20	847	5	1	24	832.15	-67.396	Pass
20	847	5	1	24	2547.5	-48.161	Pass
20	847	5	25	0	0.0105	-56.004	Pass
20	847	5	25	0	0.155	-57.719	Pass

Band	UL Channel Frequency MHz	Channel Bandwidth MHz	UL RB Allocation	UL RB Start	Spurious Frequency MHz	Spurious Level dBm	Verdict
20	847	5	25	0	859.65	-51.322	Pass
20	847	5	25	0	1882	-51.591	Pass
20	859.5	5	1	0	0.0122	-57.148	Pass
20	859.5	5	1	0	0.165	-57.636	Pass
20	859.5	5	1	0	816.75	-65.471	Pass
20	859.5	5	1	0	1714	-45.008	Pass
20	859.5	5	1	24	0.0102	-54.461	Pass
20	859.5	5	1	24	0.155	-57.386	Pass
20	859.5	5	1	24	844.65	-65.84	Pass
20	859.5	5	1	24	2585	-48.965	Pass
20	859.5	5	25	0	0.0105	-55.397	Pass
20	859.5	5	25	0	0.165	-57.147	Pass
20	859.5	5	25	0	845.65	-52.479	Pass
20	859.5	5	25	0	1886.5	-51.568	Pass
20	842	20	1	0	0.0108	-56.028	Pass
20	842	20	1	0	0.155	-59.367	Pass
20	842	20	1	0	801.05	-67.022	Pass
20	842	20	1	0	2499	-49.593	Pass
20	842	20	1	99	0.0108	-55	Pass
20	842	20	1	99	0.155	-58.871	Pass
20	842	20	1	99	800.85	-66.733	Pass
20	842	20	1	99	2552.5	-48.217	Pass
20	842	20	100	0	0.0102	-57.027	Pass
20	842	20	100	0	0.155	-57.95	Pass
20	842	20	100	0	792.25	-67.488	Pass
20	842	20	100	0	1879.5	-51.521	Pass
20	847	20	1	0	0.0102	-55.077	Pass
20	847	20	1	0	0.155	-57.259	Pass
20	847	20	1	0	805.75	-67.749	Pass
20	847	20	1	0	2514.5	-49.21	Pass
20	847	20	1	99	0.0105	-57.771	Pass
20	847	20	1	99	0.155	-58.513	Pass
20	847	20	1	99	805.95	-68.163	Pass
20	847	20	1	99	2567.5	-47.977	Pass
20	847	20	100	0	0.0108	-57.208	Pass

Band	UL Channel Frequency MHz	Channel Bandwidth MHz	UL RB Allocation	UL RB Start	Spurious Frequency MHz	Spurious Level dBm	Verdict
20	847	20	100	0	0.155	-57.462	Pass
20	847	20	100	0	805.55	-69.217	Pass
20	847	20	100	0	1880	-51.545	Pass
20	852	20	1	0	0.0102	-56.48	Pass
20	852	20	1	0	0.155	-58.009	Pass
20	852	20	1	0	802.65	-66.265	Pass
20	852	20	1	0	2529.5	-48.482	Pass
20	852	20	1	99	0.0102	-57.31	Pass
20	852	20	1	99	0.155	-57.54	Pass
20	852	20	1	99	810.75	-67.722	Pass
20	852	20	1	99	2582.5	-49.19	Pass
20	852	20	100	0	0.0095	-54.826	Pass
20	852	20	100	0	0.155	-57.899	Pass
20	852	20	100	0	810.75	-67.511	Pass
20	852	20	100	0	1892.5	-51.567	Pass
20	837	10	1	0	0.0098	-56.155	Pass
20	837	10	1	0	0.155	-58.289	Pass
20	837	10	1	0	795.65	-67.615	Pass
20	837	10	1	0	2497.5	-49.578	Pass
20	837	10	1	49	0.0112	-55.952	Pass
20	837	10	1	49	0.165	-58.817	Pass
20	837	10	1	49	859.15	-45.031	Pass
20	837	10	1	49	2524	-48.834	Pass
20	837	10	50	0	0.0102	-56.343	Pass
20	837	10	50	0	0.155	-58.399	Pass
20	837	10	50	0	857.05	-51.324	Pass
20	837	10	50	0	1884.5	-51.606	Pass
20	847	10	1	0	0.0098	-55.104	Pass
20	847	10	1	0	0.155	-57.533	Pass
20	847	10	1	0	802.15	-67.893	Pass
20	847	10	1	0	2528	-48.509	Pass
20	847	10	1	49	0.0128	-56.637	Pass
20	847	10	1	49	0.155	-56.993	Pass
20	847	10	1	49	869.05	-52.383	Pass
20	847	10	1	49	2554	-48.293	Pass

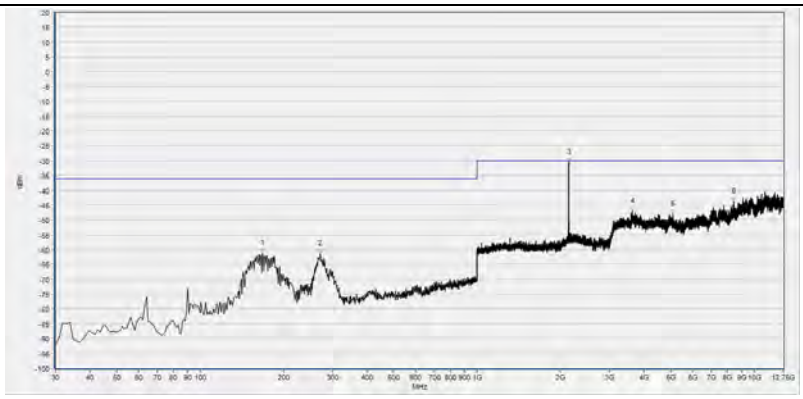
Band	UL Channel Frequency MHz	Channel Bandwidth MHz	UL RB Allocation	UL RB Start	Spurious Frequency MHz	Spurious Level dBm	Verdict
20	847	10	50	0	0.0095	-53.618	Pass
20	847	10	50	0	0.155	-57.869	Pass
20	847	10	50	0	867.05	-54.684	Pass
20	847	10	50	0	1885.5	-51.51	Pass
20	857	10	1	0	0.0095	-53.621	Pass
20	857	10	1	0	0.155	-57.449	Pass
20	857	10	1	0	834.95	-50.836	Pass
20	857	10	1	0	2557.5	-48.078	Pass
20	857	10	1	49	0.0105	-56.423	Pass
20	857	10	1	49	0.155	-58.26	Pass
20	857	10	1	49	815.65	-67.594	Pass
20	857	10	1	49	2584	-49.084	Pass
20	857	10	50	0	0.0122	-56.319	Pass
20	857	10	50	0	0.155	-57.302	Pass
20	857	10	50	0	836.65	-50.9	Pass
20	857	10	50	0	1884	-51.57	Pass
40	2302.5	5	1	0	0.0112	-57.539	Pass
40	2302.5	5	1	0	0.155	-55.782	Pass
40	2302.5	5	1	0	497.15	-69.695	Pass
40	2302.5	5	1	0	12185.0323	-52.616	Pass
40	2302.5	5	1	24	0.0112	-54.81	Pass
40	2302.5	5	1	24	0.155	-56.843	Pass
40	2302.5	5	1	24	481.05	-69.579	Pass
40	2302.5	5	1	24	12185.0323	-52.658	Pass
40	2302.5	5	25	0	0.0095	-55.776	Pass
40	2302.5	5	25	0	0.155	-55.644	Pass
40	2302.5	5	25	0	485.35	-69.751	Pass
40	2302.5	5	25	0	2315.5	-47.762	Pass
40	2350	5	1	0	0.0112	-57.909	Pass
40	2350	5	1	0	0.155	-55.08	Pass
40	2350	5	1	0	482.75	-69.561	Pass
40	2350	5	1	0	4695.4603	-52.205	Pass
40	2350	5	1	24	0.0112	-55.393	Pass
40	2350	5	1	24	0.155	-55.084	Pass
40	2350	5	1	24	481.45	-69.763	Pass

Band	UL Channel Frequency MHz	Channel Bandwidth MHz	UL RB Allocation	UL RB Start	Spurious Frequency MHz	Spurious Level dBm	Verdict
40	2350	5	1	24	2335.5	-46.859	Pass
40	2350	5	25	0	0.0112	-55.995	Pass
40	2350	5	25	0	0.155	-57.201	Pass
40	2350	5	25	0	494.45	-69.485	Pass
40	2350	5	25	0	2337	-45.709	Pass
40	2397.5	5	1	0	0.0095	-54.199	Pass
40	2397.5	5	1	0	0.155	-57.939	Pass
40	2397.5	5	1	0	497.85	-69.486	Pass
40	2397.5	5	1	0	4790.4549	-52.326	Pass
40	2397.5	5	1	24	0.0095	-57.784	Pass
40	2397.5	5	1	24	0.165	-57.834	Pass
40	2397.5	5	1	24	497.45	-69.655	Pass
40	2397.5	5	1	24	4799.4543	-50.504	Pass
40	2397.5	5	25	0	0.0095	-56.659	Pass
40	2397.5	5	25	0	0.155	-58.212	Pass
40	2397.5	5	25	0	491.45	-69.65	Pass
40	2397.5	5	25	0	2383.5004	-44.14	Pass
40	2310	20	1	0	0.0102	-56.819	Pass
40	2310	20	1	0	0.155	-56.681	Pass
40	2310	20	1	0	488.95	-69.658	Pass
40	2310	20	1	0	12185.0323	-52.563	Pass
40	2310	20	1	99	0.0102	-57.874	Pass
40	2310	20	1	99	0.155	-56.106	Pass
40	2310	20	1	99	490.35	-69.818	Pass
40	2310	20	1	99	2354.5	-49.034	Pass
40	2310	20	100	0	0.0115	-57.161	Pass
40	2310	20	100	0	0.155	-55.712	Pass
40	2310	20	100	0	493.35	-69.743	Pass
40	2310	20	100	0	2345.5	-50.978	Pass
40	2350	20	1	0	0.0108	-58.847	Pass
40	2350	20	1	0	0.155	-59.866	Pass
40	2350	20	1	0	485.75	-69.699	Pass
40	2350	20	1	0	2305.5034	-39.035	Pass
40	2350	20	1	99	0.0095	-57.627	Pass
40	2350	20	1	99	0.155	-58.265	Pass

Band	UL Channel Frequency MHz	Channel Bandwidth MHz	UL RB Allocation	UL RB Start	Spurious Frequency MHz	Spurious Level dBm	Verdict
40	2350	20	1	99	490.95	-69.722	Pass
40	2350	20	1	99	2394.5	-41.053	Pass
40	2350	20	100	0	0.0102	-55.714	Pass
40	2350	20	100	0	0.155	-58.159	Pass
40	2350	20	100	0	495.95	-69.71	Pass
40	2350	20	100	0	2314.5	-37.155	Pass
40	2390	20	1	0	0.0102	-57.428	Pass
40	2390	20	1	0	0.155	-59.365	Pass
40	2390	20	1	0	485.75	-69.499	Pass
40	2390	20	1	0	2345.5033	-48.699	Pass
40	2390	20	1	99	0.0095	-54.608	Pass
40	2390	20	1	99	0.165	-57.637	Pass
40	2390	20	1	99	497.05	-69.748	Pass
40	2390	20	1	99	4797.9544	-50.691	Pass
40	2390	20	100	0	0.0128	-55.993	Pass
40	2390	20	100	0	0.175	-58.56	Pass
40	2390	20	100	0	492.45	-69.639	Pass
40	2390	20	100	0	2354.0002	-46.844	Pass

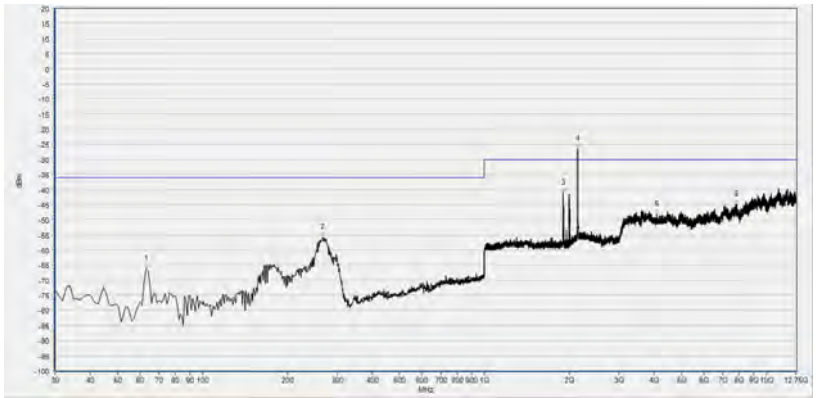
Annex D Radiated Spurious Emissions

The test case is performed under all conditions, but just the worst phases is posted below.



Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
167.740	-61.06	-36.00	Horizontal	PASS
271.530	-61.39	-36.00	Horizontal	PASS
2140.296	-30.41	-30.00	Horizontal	PASS
3628.105	-47.05	-30.00	Horizontal	PASS
5078.896	-47.95	-30.00	Horizontal	PASS
8440.080	-43.73	-30.00	Horizontal	PASS

Band1 CH M 5M QPSK H V

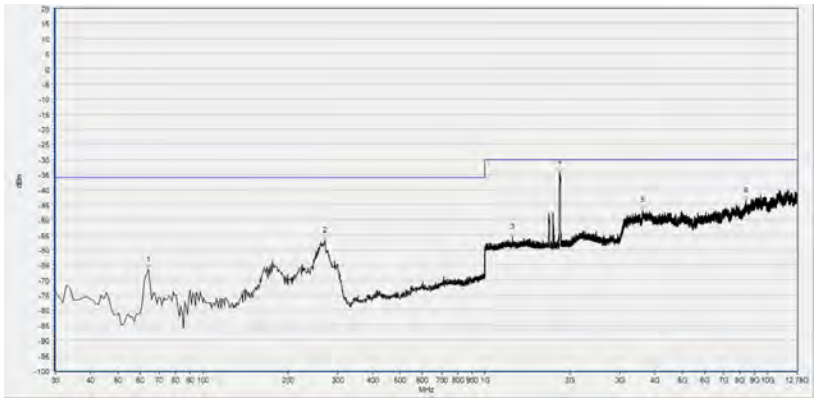


Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
62.980	-66.31	-36.00	Vertical	PASS
266.680	-55.69	-36.00	Vertical	PASS
1902.761	-40.93	-30.00	Vertical	PASS
2139.016	-26.39	-30.00	Vertical	N.A
4076.632	-48.20	-30.00	Vertical	PASS
7801.437	-44.79	-30.00	Vertical	PASS

Band1 CH M 5M QPSK V H

Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
90.140	-71.98	-36.00	Horizontal	PASS
174.530	-62.64	-36.00	Horizontal	PASS
1688.275	-47.18	-30.00	Horizontal	PASS
1841.297	-32.41	-30.00	Horizontal	PASS
3788.689	-46.31	-30.00	Horizontal	PASS
7098.191	-45.77	-30.00	Horizontal	PASS

Band3 CH M 20M QPSK H V



Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
63.950	-66.45	-36.00	Vertical	PASS
271.530	-56.95	-36.00	Vertical	PASS
1249.700	-55.75	-30.00	Vertical	PASS
1834.894	-34.36	-30.00	Vertical	PASS
3607.801	-46.93	-30.00	Vertical	PASS
8386.552	-43.70	-30.00	Vertical	PASS

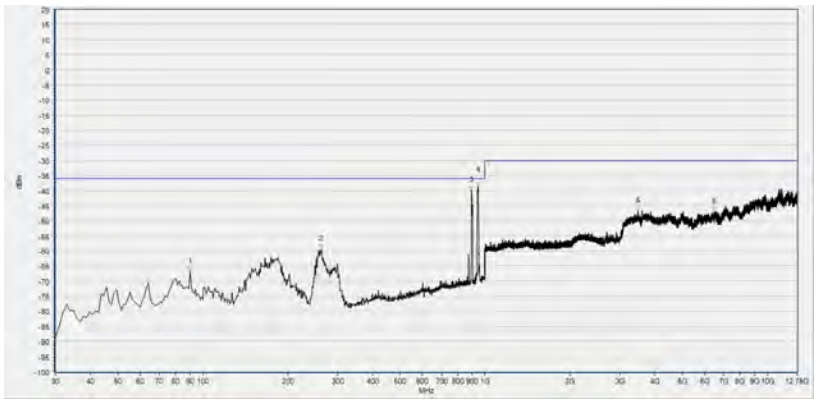
Band3 CH M 20M QPSK V H

Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
62.980	-70.76	-36.00	Horizontal	PASS
183.260	-61.31	-36.00	Horizontal	PASS
299.660	-62.12	-36.00	Horizontal	PASS
2488.595	-47.64	-30.00	Horizontal	PASS
2660.911	-38.73	-30.00	Horizontal	PASS
7818.049	-45.51	-30.00	Horizontal	PASS

Band7 CH M 20M QPSK H V

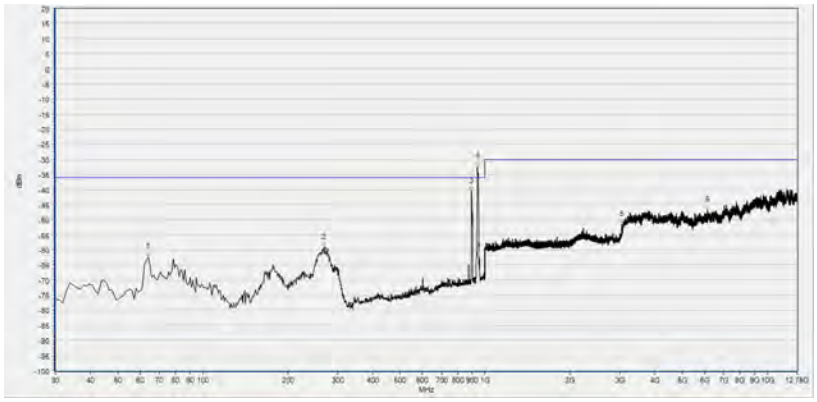
Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
63.950	-65.48	-36.00	Vertical	PASS
268.620	-58.27	-36.00	Vertical	PASS
1443.057	-56.37	-30.00	Vertical	PASS
2487.315	-49.61	-30.00	Vertical	PASS
2657.219	-38.78	-30.00	Vertical	PASS
9748.745	-40.42	-30.00	Vertical	PASS

Band7 CH M 20M QPSK V H



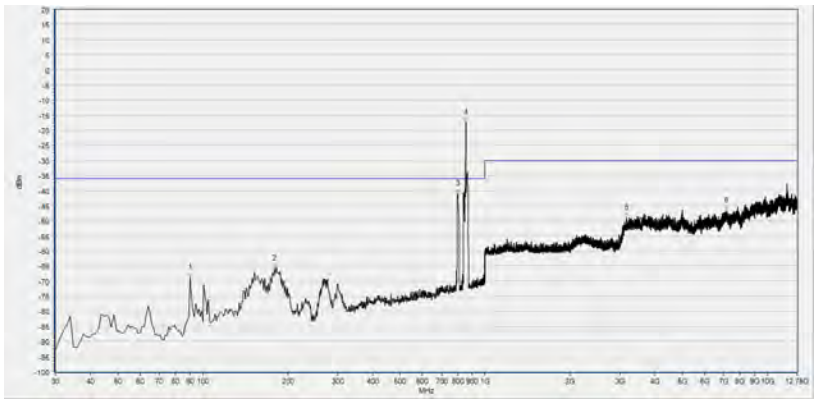
Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
90.140	-66.60	-36.00	Horizontal	PASS
262.800	-59.42	-36.00	Horizontal	PASS
895.240	-39.97	-36.00	Horizontal	N.A
942.770	-38.51	-36.00	Horizontal	N.A
3489.140	-46.60	-30.00	Horizontal	PASS
6465.120	-47.04	-30.00	Horizontal	PASS

Band8 CH M 10M QPSK H V



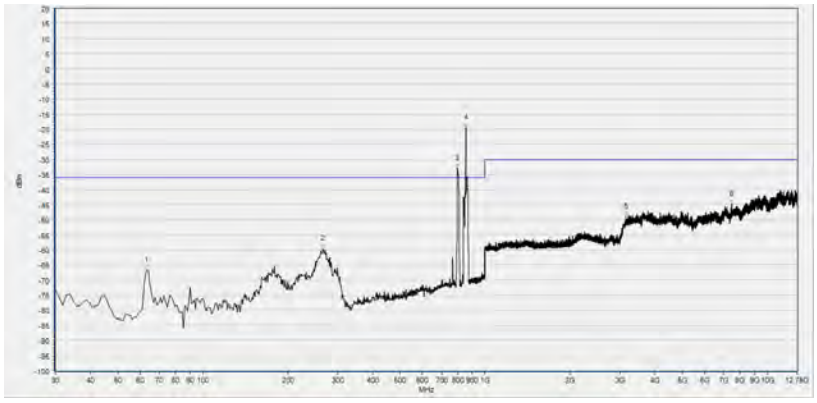
Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
63.950	-62.18	-36.00	Vertical	PASS
267.650	-59.09	-36.00	Vertical	PASS
894.270	-40.50	-36.00	Vertical	N.A
938.890	-32.30	-36.00	Vertical	N.A
3054.720	-51.49	-30.00	Vertical	PASS
6140.320	-46.53	-30.00	Vertical	PASS

Band8 CH M 10M QPSK V H



Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
90.140	-68.63	-36.00	Horizontal	PASS
179.380	-65.80	-36.00	Horizontal	PASS
800.180	-41.06	-36.00	Horizontal	N.A
855.470	-17.33	-36.00	Horizontal	N.A
3177.732	-48.95	-30.00	Horizontal	PASS
7162.793	-46.58	-30.00	Horizontal	PASS

Band20 CH M 20M QPSK H V

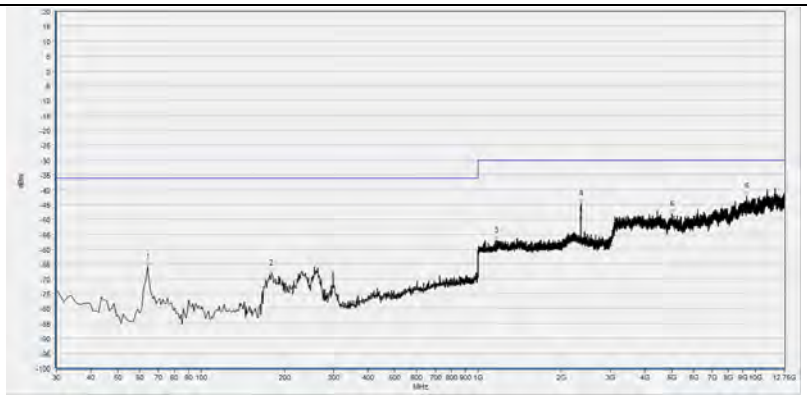


Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
62.980	-66.65	-36.00	Vertical	PASS
266.680	-59.53	-36.00	Vertical	PASS
798.240	-33.05	-36.00	Vertical	N.A
855.470	-19.63	-36.00	Vertical	N.A
3148.200	-49.03	-30.00	Vertical	PASS
7482.115	-44.71	-30.00	Vertical	PASS

Band20 CH M 20M QPSK V H

Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
90.140	-66.78	-36.00	Horizontal	PASS
174.530	-59.97	-36.00	Horizontal	PASS
266.680	-58.56	-36.00	Horizontal	PASS
1726.691	-56.65	-30.00	Horizontal	PASS
2350.300	-43.89	-30.00	Horizontal	PASS
11044.490	-40.32	-30.00	Horizontal	PASS

Band40 CH M 20M QPSK H V



Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
63.950	-65.91	-36.00	Vertical	PASS
179.380	-68.03	-36.00	Vertical	PASS
1163.906	-57.16	-30.00	Vertical	PASS
2350.300	-44.59	-30.00	Vertical	PASS
4993.990	-48.05	-30.00	Vertical	PASS
9331.597	-42.03	-30.00	Vertical	PASS

Band40 CH M 20M QPSK V H

Note: N.A means the frequency is the basic frequency or the base station frequency,they are no need to verdict.

Annex E Photographs of the EUT

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Annex F Test Uncertainty

EN301 908-1		**Uncertainty**
Effective radiated RF power between 30 MHz and 180 MHz		±3.74dB
Effective radiated RF power between 180 MHz and 12,75 GHz		±2.90dB
Conducted RF power		±0.5dB
3GPP 36.521-1	**Test Description**	**Uncertainty**
6.2.2	UE Maximum Output Power	±0.7dB
6.3.2	Minimum Output Power	±1.0dB
6.6.2.1	Spectrum Emission Mask	±1.5dB
6.6.2.3	Adjacent Channel Leakage power Ratio	±0.8dB
6.6.3.1 6.6.3.2	Spurious Emissions: 9KHz < f ≤ 4GHz 4GHz < f ≤ 12.75GHz	 ±2.0dB ±4.0dB
7.3	Receiver Reference Sensitivity Level	±0.6dB
7.5	Adjacent channel selectivity	±1.1dB
7.6.1	Blocking characteristics(In band) Outside above: 1MHz < f ≤ 3GHz Outside above: 3GHz < f ≤ 12.75GHz	 ±1.3dB ±3.2dB
7.6.2	Blocking characteristics(Out band)	
	Outside above: 1MHz < f ≤ 3GHz	±1.3dB
	Outside above: 3GHz < f ≤ 12.75GHz	±3.2dB
7.6.3	Blocking characteristics(Narrow band) Outside above: 1MHz < f ≤ 3GHz Outside above: 3GHz < f ≤ 12.75GHz	 ±1.3dB ±3.2dB
7.7	Spurious Response Outside above: 1MHz < f ≤ 3GHz Outside above: 3GHz < f ≤ 12.75GHz	 ±1.3dB ±3.2dB
7.8	Intermodulation Characteristics	±1.4dB
7.9	Receiver Spurious Emissions: 9KHz < f ≤ 4GHz 4GHz < f ≤ 12.75GHz	 ±2.0dB ±4.0dB

Annex G General Information

1. Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Test Equipments Utilized

3.1 RF Conformance Test System

Agilent T4010S LTE RF Conformance Test System						
No.	**Equipment Name**	**Serial No.**	**Type**	**Manufacturer**	**Cal.Date**	**Cal.Due Date**
1	LTE Wireless CommunicationsTest Set	ESBWTA360C5	T2010A	Agilent	2017.05.24	2018.05.23
2	Smart RF Switching Unit	MY53301001	T1250A	Agilent	2017.05.24	2018.05.23
3	Mobile Communications DC Source	MY52000655	66311B	Agilent	2017.05.24	2018.05.23
4	MXA Signal Analyzer	MY52091436	N9020A	Agilent	2017.05.24	2018.05.23
5	PSG Analog Signal Generator	MY53400192	E8257D	Agilent	2017.05.24	2018.05.23
6	PC Monitor	57C1VBX	R410	DELL	N/A	N/A
	Software Version: RCT.5.2.9.0					

3.2 RSE Test System

RSE Test System						
No.	**Equipment Name**	**Serial No.**	**Type**	**Manufacturer**	**Cal. Date**	**Cal.Due Date**
1	System Simulator	117801	CMU200	R&S	2017.05.17	2018.05.16
2	Wireless synthesizer	152038	CMW500	R&S	2017.05.24	2018.05.23
3	MXE EMI Receiver	MY54130016	N9038A	Agilent	2017.05.17	2018.05.16
4	Test Antenna -Bi-Log	9163-519	VULB 9163	Schwarzbeck	2017.05.14	2018.05.13
5	Test Antenna -Horn	01774	BBHA 9120D	Schwarzbeck	2017.09.13	2018.09.12
6	Anechoic Chamber	N.A	9m*6m*6m	CRT	2017.11.19	2020.11.18

3.3 Climate Chamber

Climate Chamber						
No.	**Equipment Name**	**Serial No.**	**Type**	**Manufacturer**	**Cal.Date**	**Cal.Due Date**
1	Climate Chamber	12108015	DTL-003S/01	YOMA	2017.05.24	2018.05.23

3.4 Vibration Table

Vibration Table						
No.	**Equipment Name**	**Serial No.**	**Type**	**Manufacturer**	**Cal.Date**	**Cal.Due Date**
1	Vibration Table	N/A	ACT2000-S015L	CMI-COM	2017.05.24	2018.05.23

3.5 Anechoic Chamber

Anechoic Chamber						
No.	**Equipment Name**	**Serial No.**	**Type**	**Manufacturer**	**Cal.Date**	**Cal.Due Date**
1	Anechoic Chamber	N/A	9m*6m*6m	Changning	2017.05.24	2018.05.23

END OF REPORT