



TEST REPORT

APPLICANT : Fibocom Wireless Inc.
PRODUCT NAME : LTE Module
MODEL NAME : FG101-NA
BRAND NAME : Fibocom
FCC ID : ZMOFG101NA
STANDARD(S) : 47 CFR Part 2
47 CFR Part 90, Subpart S
RECEIPT DATE : 2023-06-19
TEST DATE : 2023-06-23 to 2023-07-06
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Change History		
Version	Date	Reason for change
1.0	2023-07-20	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Fibocom Wireless Inc.
Applicant Address:	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Manufacturer:	Fibocom Wireless Inc.
Manufacturer Address:	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China

1.2. Equipment Under Test (EUT) Description

Product Name:	LTE Module	
Sample No.:	1#	
Hardware Version:	V1.2	
Software Version:	19101.1000.01.00.00.07	
Modulation Type:	QPSK, 16QAM, 64QAM	
Operation Band:	Band 14 / 26	
Frequency Range:	LTE Band 14	Tx: 788MHz–798MHz
		Rx: 758MHz–768MHz
	LTE Band 26	Tx: 814MHz–824MHz
		Rx: 859MHz–869MHz
Channel Bandwidth	LTE Band 14	5MHz, 10MHz
	LTE Band 26	1.4MHz, 3MHz, 5MHz, 10MHz
Antenna Type:	Fixed External Antenna	
Antenna Gain:	LTE Band 14	2.20dBi
	LTE Band 26	2.20dBi

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



1.3. Maximum E.R.P./E.I.R.P. and Emission Designator

LTE Band 14	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
	BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM
10	0.212	0.173	0.136	9M02G7D	8M96W7D	9M00W7D
5	0.211	0.178	0.139	4M51G7D	4M51W7D	4M52W7D
LTE Band 26	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.203	0.166	0.134	9M00G7D	8M97W7D	8M98W7D
5	0.198	0.160	0.131	4M51G7D	4M51W7D	4M52W7D
3	0.203	0.170	0.134	2M70G7D	2M70W7D	2M71W7D
1.4	0.207	0.164	0.136	1M09G7D	1M10W7D	1M10W7D



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2 and Part 90 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 90	Miscellaneous Wireless Communications Services

Test detailed items/section required by FCC rules and results are as below:

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046, 90.635(b)	Transmitter Conducted Output Power and ERP/EIRP	Jun. 29, 2023	Chen Hao Li Huaijie	PASS	No deviation
90.209	Occupied Bandwidth	Jul. 03, 2023	Li Huaijie	PASS	No deviation
2.1055, 90.213	Frequency Stability	Jul. 03, 2023	Li Huaijie	PASS	No deviation
2.1051, 90.691	Conducted Spurious Emissions	Jul. 03, 2023	Li Huaijie	PASS	No deviation
2.1051, 90.691	Band Edge	Jul. 04, 2023	Li Huaijie	PASS	No deviation
2.1053, 90.691	Radiated Spurious Emissions	Jul. 01, 2023	Li Hanbin	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016.

Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 24.5dB contains two parts that cable loss 14.5dB and Attenuator 10dB.

Note 3: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 4: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.



1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

2.47 CFR Part 2, Part 90S Requirements

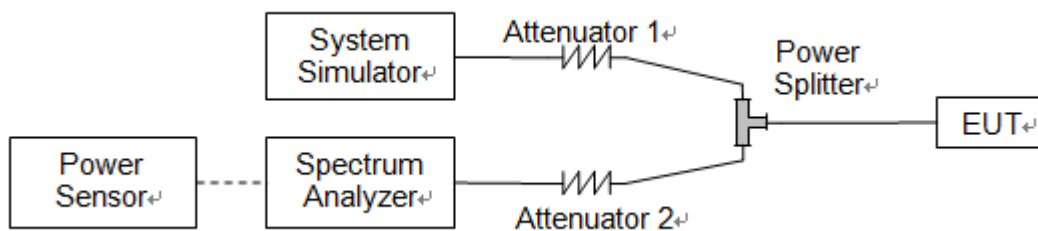
2.1. Transmitter Conducted Output Power and E.R.P./E.I.R.P.

2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

According to FCC section 90.635(b) for LTE Band 26, the maximum output power of the transmitter for mobile stations is 100 watts.

2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

$EIRP \text{ (dBm)} = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$

$ERP \text{ (dBm)} = EIPR \text{ (dBm)} - 2.15$



2.1.4. Result

Conducted Output Power

LTE Band 14						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	23330	/
Frequency (MHz)				/	793	/
10	QPSK	1	0	/	23.22	/
10	QPSK	1	25	/	23.14	/
10	QPSK	1	49	/	23.09	/
10	QPSK	25	0	/	22.34	/
10	QPSK	25	12	/	22.12	/
10	QPSK	25	25	/	22.11	/
10	QPSK	50	0	/	22.14	/
10	16QAM	1	0	/	22.33	/
10	16QAM	1	25	/	22.28	/
10	16QAM	1	49	/	22.13	/
10	16QAM	25	0	/	21.18	/
10	16QAM	25	12	/	21.04	/
10	16QAM	25	25	/	21.06	/
10	16QAM	50	0	/	21.12	/
10	64QAM	1	0	/	21.28	/
10	64QAM	1	25	/	21.28	/
10	64QAM	1	49	/	21.19	/
10	64QAM	25	0	/	20.26	/
10	64QAM	25	12	/	20.14	/
10	64QAM	25	25	/	20.05	/
10	64QAM	50	0	/	20.13	/



LTE Band 14						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23305	23330	23355
Frequency (MHz)				790.5	793	795.5
5	QPSK	1	0	23.09	23.20	23.11
5	QPSK	1	12	23.18	23.17	23.07
5	QPSK	1	24	23.08	23.10	23.01
5	QPSK	12	0	22.29	22.29	22.27
5	QPSK	12	7	22.04	22.19	22.20
5	QPSK	12	13	22.10	22.25	22.16
5	QPSK	25	0	22.10	22.29	22.14
5	16QAM	1	0	22.27	22.41	22.29
5	16QAM	1	12	22.24	22.46	22.34
5	16QAM	1	24	22.16	22.16	22.39
5	16QAM	12	0	21.09	21.24	21.11
5	16QAM	12	7	21.20	21.13	21.20
5	16QAM	12	13	21.21	21.19	21.13
5	16QAM	25	0	21.09	21.37	21.26
5	64QAM	1	0	21.20	21.28	21.39
5	64QAM	1	12	21.12	21.31	21.28
5	64QAM	1	24	21.14	21.19	21.27
5	64QAM	12	0	20.12	20.21	20.30
5	64QAM	12	7	20.01	20.25	20.15
5	64QAM	12	13	20.10	20.20	20.23
5	64QAM	25	0	20.23	20.10	20.34



LTE Band 26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	26740	/
Frequency (MHz)				/	819.0	/
10	QPSK	1	0	/	23.03	/
10	QPSK	1	25	/	22.86	/
10	QPSK	1	49	/	22.89	/
10	QPSK	25	0	/	22.05	/
10	QPSK	25	12	/	21.89	/
10	QPSK	25	25	/	22.06	/
10	QPSK	50	0	/	22.09	/
10	16QAM	1	0	/	22.16	/
10	16QAM	1	25	/	22.16	/
10	16QAM	1	49	/	22.04	/
10	16QAM	25	0	/	21.03	/
10	16QAM	25	12	/	21.05	/
10	16QAM	25	25	/	21.02	/
10	16QAM	50	0	/	20.93	/
10	64QAM	1	0	/	21.22	/
10	64QAM	1	25	/	21.07	/
10	64QAM	1	49	/	21.08	/
10	64QAM	25	0	/	20.08	/
10	64QAM	25	12	/	19.82	/
10	64QAM	25	25	/	19.94	/
10	64QAM	50	0	/	19.96	/



LTE Band 26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26715	26740	26765
Frequency (MHz)				816.5	819.0	821.5
5	QPSK	1	0	22.89	22.78	22.80
5	QPSK	1	12	22.92	22.87	22.84
5	QPSK	1	24	22.92	22.88	22.83
5	QPSK	12	0	22.12	22.04	22.06
5	QPSK	12	7	22.14	22.08	22.08
5	QPSK	12	13	21.97	21.89	21.90
5	QPSK	25	0	21.98	21.97	21.91
5	16QAM	1	0	22.00	21.90	21.96
5	16QAM	1	12	21.95	21.85	21.89
5	16QAM	1	24	21.93	21.86	21.89
5	16QAM	12	0	21.12	21.06	21.08
5	16QAM	12	7	20.91	20.83	20.84
5	16QAM	12	13	20.98	20.91	20.95
5	16QAM	25	0	20.94	20.92	20.82
5	64QAM	1	0	21.11	21.08	21.04
5	64QAM	1	12	21.09	21.06	21.02
5	64QAM	1	24	21.01	21.00	20.97
5	64QAM	12	0	20.00	19.97	19.95
5	64QAM	12	7	19.93	19.84	19.85
5	64QAM	12	13	19.98	19.87	19.93
5	64QAM	25	0	19.92	19.81	19.82



LTE Band 26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26705	26740	26775
Frequency (MHz)				815.5	819.0	822.5
3	QPSK	1	0	22.99	22.96	22.93
3	QPSK	1	8	23.03	22.94	22.92
3	QPSK	1	14	22.91	22.83	22.79
3	QPSK	8	0	22.12	22.03	22.07
3	QPSK	8	4	21.89	21.85	21.80
3	QPSK	8	7	21.99	21.95	21.88
3	QPSK	15	0	22.04	21.96	22.01
3	16QAM	1	0	22.25	22.14	22.17
3	16QAM	1	8	22.17	22.12	22.14
3	16QAM	1	14	22.10	22.01	21.98
3	16QAM	8	0	21.15	21.10	21.10
3	16QAM	8	4	21.06	20.98	21.01
3	16QAM	8	7	20.92	20.90	20.90
3	16QAM	15	0	20.73	20.64	20.69
3	64QAM	1	0	21.23	21.14	21.11
3	64QAM	1	8	21.18	21.07	21.07
3	64QAM	1	14	21.02	20.94	20.99
3	64QAM	8	0	20.03	19.91	19.92
3	64QAM	8	4	19.99	19.87	19.93
3	64QAM	8	7	19.92	19.82	19.83
3	64QAM	15	0	19.97	19.95	19.93



LTE Band 26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26697	26740	26783
Frequency (MHz)				814.7	819.0	823.3
1.4	QPSK	1	0	23.10	23.05	23.09
1.4	QPSK	1	3	22.92	22.84	22.81
1.4	QPSK	1	5	22.90	22.86	22.85
1.4	QPSK	3	0	22.04	22.02	21.98
1.4	QPSK	3	1	22.11	22.08	22.08
1.4	QPSK	3	3	22.01	21.91	21.93
1.4	QPSK	6	0	21.80	21.71	21.69
1.4	16QAM	1	0	22.09	21.97	22.06
1.4	16QAM	1	3	21.96	21.92	21.93
1.4	16QAM	1	5	22.07	21.96	21.96
1.4	16QAM	3	0	21.12	21.00	21.07
1.4	16QAM	3	1	21.00	20.93	20.93
1.4	16QAM	3	3	21.02	20.94	20.91
1.4	16QAM	6	0	20.78	20.74	20.69
1.4	64QAM	1	0	21.27	21.15	21.19
1.4	64QAM	1	3	21.02	20.92	20.98
1.4	64QAM	1	5	21.16	21.10	21.12
1.4	64QAM	3	0	20.07	20.05	20.02
1.4	64QAM	3	1	20.10	20.02	19.99
1.4	64QAM	3	3	20.01	19.95	19.97
1.4	64QAM	6	0	20.05	19.97	20.04



Effective Radiated Power and Effective Isotropic Radiated Power

LTE Band 14				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				/		23330		/	
Frequency (MHz)				/		793		/	
				/	/	dBm	W	/	/
10	QPSK	1	0	/	/	23.27	0.212	/	/
10	QPSK	1	25	/	/	23.19	0.208	/	/
10	QPSK	1	49	/	/	23.14	0.206	/	/
10	QPSK	25	0	/	/	22.39	0.173	/	/
10	QPSK	25	12	/	/	22.17	0.165	/	/
10	QPSK	25	25	/	/	22.16	0.164	/	/
10	QPSK	50	0	/	/	22.19	0.166	/	/
10	16QAM	1	0	/	/	22.38	0.173	/	/
10	16QAM	1	25	/	/	22.33	0.171	/	/
10	16QAM	1	49	/	/	22.18	0.165	/	/
10	16QAM	25	0	/	/	21.23	0.133	/	/
10	16QAM	25	12	/	/	21.09	0.129	/	/
10	16QAM	25	25	/	/	21.11	0.129	/	/
10	16QAM	50	0	/	/	21.17	0.131	/	/
10	64QAM	1	0	/	/	21.33	0.136	/	/
10	64QAM	1	25	/	/	21.33	0.136	/	/
10	64QAM	1	49	/	/	21.24	0.133	/	/
10	64QAM	25	0	/	/	20.31	0.107	/	/
10	64QAM	25	12	/	/	20.19	0.104	/	/
10	64QAM	25	25	/	/	20.10	0.102	/	/
10	64QAM	50	0	/	/	20.18	0.104	/	/



LTE Band 14				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23305		23330		23355	
Frequency (MHz)				790.5		793		795.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.14	0.206	23.25	0.211	23.16	0.207
5	QPSK	1	12	23.23	0.210	23.22	0.210	23.12	0.205
5	QPSK	1	24	23.13	0.206	23.15	0.207	23.06	0.202
5	QPSK	12	0	22.34	0.171	22.34	0.171	22.32	0.171
5	QPSK	12	7	22.09	0.162	22.24	0.167	22.25	0.168
5	QPSK	12	13	22.15	0.164	22.30	0.170	22.21	0.166
5	QPSK	25	0	22.15	0.164	22.34	0.171	22.19	0.166
5	16QAM	1	0	22.32	0.171	22.46	0.176	22.34	0.171
5	16QAM	1	12	22.29	0.169	22.51	0.178	22.39	0.173
5	16QAM	1	24	22.21	0.166	22.21	0.166	22.44	0.175
5	16QAM	12	0	21.14	0.130	21.29	0.135	21.16	0.131
5	16QAM	12	7	21.25	0.133	21.18	0.131	21.25	0.133
5	16QAM	12	13	21.26	0.134	21.24	0.133	21.18	0.131
5	16QAM	25	0	21.14	0.130	21.42	0.139	21.31	0.135
5	64QAM	1	0	21.25	0.133	21.33	0.136	21.44	0.139
5	64QAM	1	12	21.17	0.131	21.36	0.137	21.33	0.136
5	64QAM	1	24	21.19	0.132	21.24	0.133	21.32	0.136
5	64QAM	12	0	20.17	0.104	20.26	0.106	20.35	0.108
5	64QAM	12	7	20.06	0.101	20.30	0.107	20.20	0.105
5	64QAM	12	13	20.15	0.104	20.25	0.106	20.28	0.107
5	64QAM	25	0	20.28	0.107	20.15	0.104	20.39	0.109



LTE Band 26				Measured E.R.P.			
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.	Middle Ch. / Freq.		High Ch. / Freq.
Channel				/	26740		/
Frequency (MHz)				/	819		/
				/	dBm	W	/
10	QPSK	1	0	/	23.08	0.203	/
10	QPSK	1	25	/	22.91	0.195	/
10	QPSK	1	49	/	22.94	0.197	/
10	QPSK	25	0	/	22.10	0.162	/
10	QPSK	25	12	/	21.94	0.156	/
10	QPSK	25	25	/	22.11	0.163	/
10	QPSK	50	0	/	22.14	0.164	/
10	16QAM	1	0	/	22.21	0.166	/
10	16QAM	1	25	/	22.21	0.166	/
10	16QAM	1	49	/	22.09	0.162	/
10	16QAM	25	0	/	21.08	0.128	/
10	16QAM	25	12	/	21.10	0.129	/
10	16QAM	25	25	/	21.07	0.128	/
10	16QAM	50	0	/	20.98	0.125	/
10	64QAM	1	0	/	21.27	0.134	/
10	64QAM	1	25	/	21.12	0.129	/
10	64QAM	1	49	/	21.13	0.130	/
10	64QAM	25	0	/	20.13	0.103	/
10	64QAM	25	12	/	19.87	0.097	/
10	64QAM	25	25	/	19.99	0.100	/
10	64QAM	50	0	/	20.01	0.100	/



LTE Band 26				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26715		26740		26765	
Frequency (MHz)				816.5		819.0		821.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	22.94	0.197	22.83	0.192	22.85	0.193
5	QPSK	1	12	22.97	0.198	22.92	0.196	22.89	0.195
5	QPSK	1	24	22.97	0.198	22.93	0.196	22.88	0.194
5	QPSK	12	0	22.17	0.165	22.09	0.162	22.11	0.163
5	QPSK	12	7	22.19	0.166	22.13	0.163	22.13	0.163
5	QPSK	12	13	22.02	0.159	21.94	0.156	21.95	0.157
5	QPSK	25	0	22.03	0.160	22.02	0.159	21.96	0.157
5	16QAM	1	0	22.05	0.160	21.95	0.157	22.01	0.159
5	16QAM	1	12	22.00	0.158	21.90	0.155	21.94	0.156
5	16QAM	1	24	21.98	0.158	21.91	0.155	21.94	0.156
5	16QAM	12	0	21.17	0.131	21.11	0.129	21.13	0.130
5	16QAM	12	7	20.96	0.125	20.88	0.122	20.89	0.123
5	16QAM	12	13	21.03	0.127	20.96	0.125	21.00	0.126
5	16QAM	25	0	20.99	0.126	20.97	0.125	20.87	0.122
5	64QAM	1	0	21.16	0.131	21.13	0.130	21.09	0.129
5	64QAM	1	12	21.14	0.130	21.11	0.129	21.07	0.128
5	64QAM	1	24	21.06	0.128	21.05	0.127	21.02	0.126
5	64QAM	12	0	20.05	0.101	20.02	0.100	20.00	0.100
5	64QAM	12	7	19.98	0.100	19.89	0.097	19.90	0.098
5	64QAM	12	13	20.03	0.101	19.92	0.098	19.98	0.100
5	64QAM	25	0	19.97	0.099	19.86	0.097	19.87	0.097



LTE Band 26				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26705		26740		26775	
Frequency (MHz)				815.5		819.0		822.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	23.04	0.201	23.01	0.200	22.98	0.199
3	QPSK	1	8	23.08	0.203	22.99	0.199	22.97	0.198
3	QPSK	1	14	22.96	0.198	22.88	0.194	22.84	0.192
3	QPSK	8	0	22.17	0.165	22.08	0.161	22.12	0.163
3	QPSK	8	4	21.94	0.156	21.90	0.155	21.85	0.153
3	QPSK	8	7	22.04	0.160	22.00	0.158	21.93	0.156
3	QPSK	15	0	22.09	0.162	22.01	0.159	22.06	0.161
3	16QAM	1	0	22.30	0.170	22.19	0.166	22.22	0.167
3	16QAM	1	8	22.22	0.167	22.17	0.165	22.19	0.166
3	16QAM	1	14	22.15	0.164	22.06	0.161	22.03	0.160
3	16QAM	8	0	21.20	0.132	21.15	0.130	21.15	0.130
3	16QAM	8	4	21.11	0.129	21.03	0.127	21.06	0.128
3	16QAM	8	7	20.97	0.125	20.95	0.124	20.95	0.124
3	16QAM	15	0	20.78	0.120	20.69	0.117	20.74	0.119
3	64QAM	1	0	21.28	0.134	21.19	0.132	21.16	0.131
3	64QAM	1	8	21.23	0.133	21.12	0.129	21.12	0.129
3	64QAM	1	14	21.07	0.128	20.99	0.126	21.04	0.127
3	64QAM	8	0	20.08	0.102	19.96	0.099	19.97	0.099
3	64QAM	8	4	20.04	0.101	19.92	0.098	19.98	0.100
3	64QAM	8	7	19.97	0.099	19.87	0.097	19.88	0.097
3	64QAM	15	0	20.02	0.100	20.00	0.100	19.98	0.100



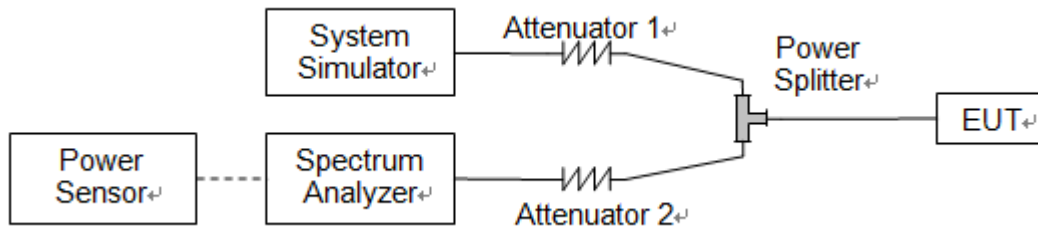
LTE Band 26				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26697		26740		26783	
Frequency (MHz)				814.7		819.0		823.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	23.15	0.207	23.10	0.204	23.14	0.206
1.4	QPSK	1	3	22.97	0.198	22.89	0.195	22.86	0.193
1.4	QPSK	1	5	22.95	0.197	22.91	0.195	22.90	0.195
1.4	QPSK	3	0	22.09	0.162	22.07	0.161	22.03	0.160
1.4	QPSK	3	1	22.16	0.164	22.13	0.163	22.13	0.163
1.4	QPSK	3	3	22.06	0.161	21.96	0.157	21.98	0.158
1.4	QPSK	6	0	21.85	0.153	21.76	0.150	21.74	0.149
1.4	16QAM	1	0	22.14	0.164	22.02	0.159	22.11	0.163
1.4	16QAM	1	3	22.01	0.159	21.97	0.157	21.98	0.158
1.4	16QAM	1	5	22.12	0.163	22.01	0.159	22.01	0.159
1.4	16QAM	3	0	21.17	0.131	21.05	0.127	21.12	0.129
1.4	16QAM	3	1	21.05	0.127	20.98	0.125	20.98	0.125
1.4	16QAM	3	3	21.07	0.128	20.99	0.126	20.96	0.125
1.4	16QAM	6	0	20.83	0.121	20.79	0.120	20.74	0.119
1.4	64QAM	1	0	21.32	0.136	21.20	0.132	21.24	0.133
1.4	64QAM	1	3	21.07	0.128	20.97	0.125	21.03	0.127
1.4	64QAM	1	5	21.21	0.132	21.15	0.130	21.17	0.131
1.4	64QAM	3	0	20.12	0.103	20.10	0.102	20.07	0.102
1.4	64QAM	3	1	20.15	0.104	20.07	0.102	20.04	0.101
1.4	64QAM	3	3	20.06	0.101	20.00	0.100	20.02	0.100
1.4	64QAM	6	0	20.10	0.102	20.02	0.100	20.09	0.102

2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.



2.2.4. Test Result

LTE Band 14				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	4.97
	Low	16QAM	4.51	5.00
	Low	64QAM	4.52	4.97
	Mid	QPSK	4.51	4.97
	Mid	16QAM	4.51	4.97
	Mid	64QAM	4.52	4.98
	High	QPSK	4.51	4.98
	High	16QAM	4.51	4.95
	High	64QAM	4.51	4.95
10	Mid	QPSK	9.02	9.80
	Mid	16QAM	8.96	9.79
	Mid	64QAM	9.00	9.79



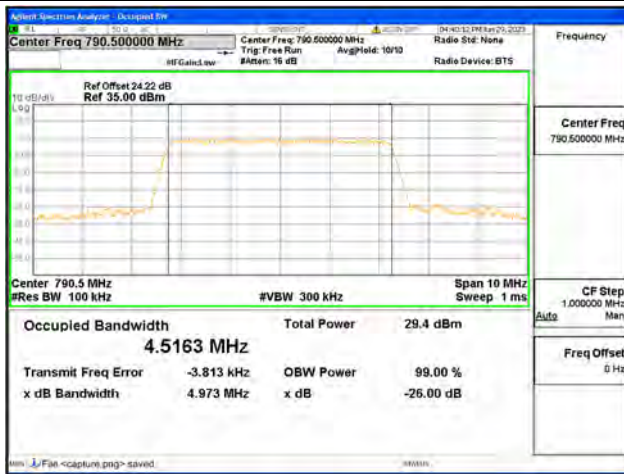
LTE Band 26				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.23
	Low	16QAM	1.09	1.23
	Low	64QAM	1.10	1.23
	Mid	QPSK	1.09	1.23
	Mid	16QAM	1.10	1.24
	Mid	64QAM	1.10	1.23
	High	QPSK	1.09	1.24
	High	16QAM	1.09	1.23
	High	64QAM	1.09	1.23
3	Low	QPSK	2.70	3.01
	Low	16QAM	2.70	3.00
	Low	64QAM	2.71	2.98
	Mid	QPSK	2.70	2.99
	Mid	16QAM	2.70	2.99
	Mid	64QAM	2.71	2.98
	High	QPSK	2.70	3.00
	High	16QAM	2.70	3.00
	High	64QAM	2.71	2.97
5	Low	QPSK	4.51	5.00
	Low	16QAM	4.50	4.97
	Low	64QAM	4.52	4.99
	Mid	QPSK	4.51	4.98
	Mid	16QAM	4.50	4.95
	Mid	64QAM	4.52	4.95
	High	QPSK	4.50	4.99
	High	16QAM	4.51	4.99
	High	64QAM	4.52	4.97
10	Mid	QPSK	9.00	9.72
	Mid	16QAM	8.97	9.74
	Mid	64QAM	8.98	9.79



Band14 / 5MHz / QPSK/ Low CH



Band14 / 5MHz / 16QAM/ Low CH



Band14 / 5MHz / 64QAM/ Low CH



Band14 / 5MHz / QPSK/ Mid CH



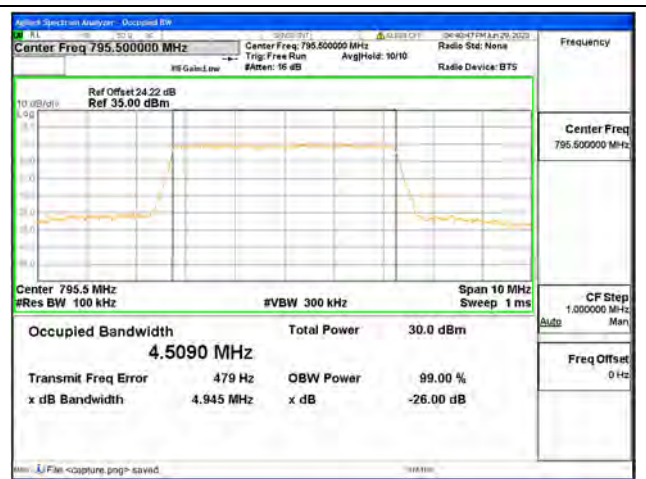
Band14 / 5MHz / 16QAM/ Mid CH



Band14 / 5MHz / 64QAM/ Mid CH



Band14 / 5MHz / QPSK/ High CH



Band14 / 5MHz / 16QAM/ High CH



Band14 / 5MHz / 64QAM/ High CH



Band14 / 10MHz / QPSK/ Mid CH



Band14 / 10MHz / 16QAM/ Mid CH



Band14 / 10MHz / 64QAM/ Mid CH



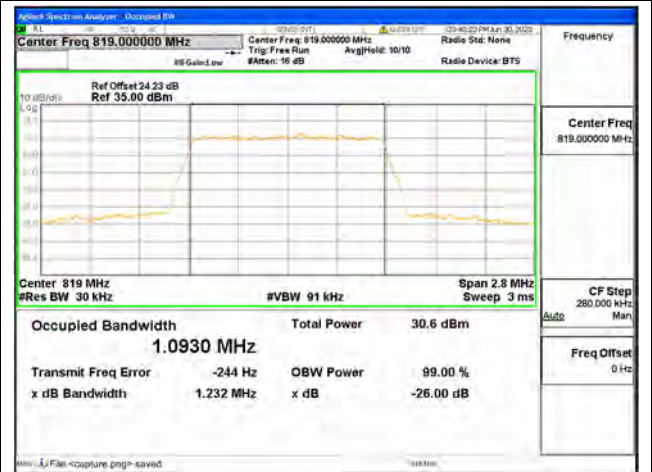
Band26 Part90 / 1.4MHz / QPSK/ Low CH



Band26 Part90 / 1.4MHz / 16QAM/ Low CH



Band26 Part90 / 1.4MHz / 64QAM/ Low CH



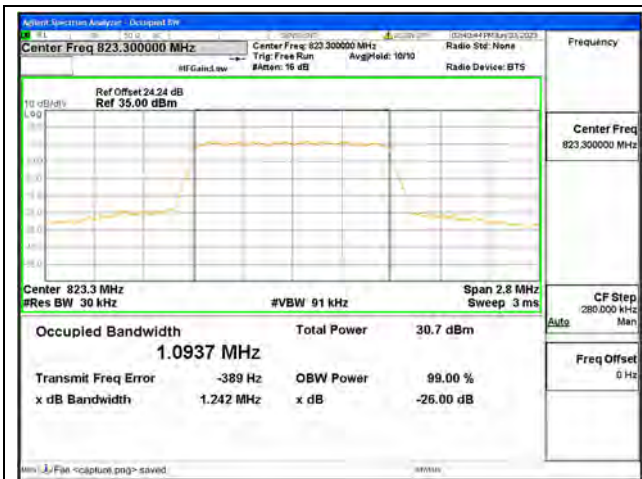
Band26 Part90 / 1.4MHz / QPSK/ Mid CH



Band26 Part90 / 1.4MHz / 16QAM/ Mid CH



Band26 Part90 / 1.4MHz / 64QAM/ Mid CH



Band26 Part90 / 1.4MHz / QPSK/ High CH



Band26 Part90 / 1.4MHz / 16QAM/ High CH



Band26 Part90 / 1.4MHz / 64QAM/ High CH



Band26 Part90 / 3MHz / QPSK/ Low CH



Band26 Part90 / 3MHz / 16QAM/ Low CH



Band26 Part90 / 3MHz / 64QAM/ Low CH



Band26 Part90 / 3MHz / QPSK/ Mid CH



Band26 Part90 / 3MHz / 16QAM/ Mid CH



Band26 Part90 / 3MHz / 64QAM/ Mid CH



Band26 Part90 / 3MHz / QPSK/ High CH



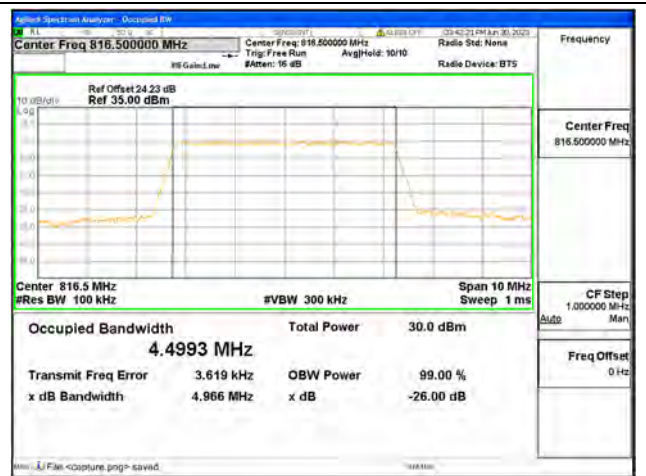
Band26 Part90 / 3MHz / 16QAM/ High CH



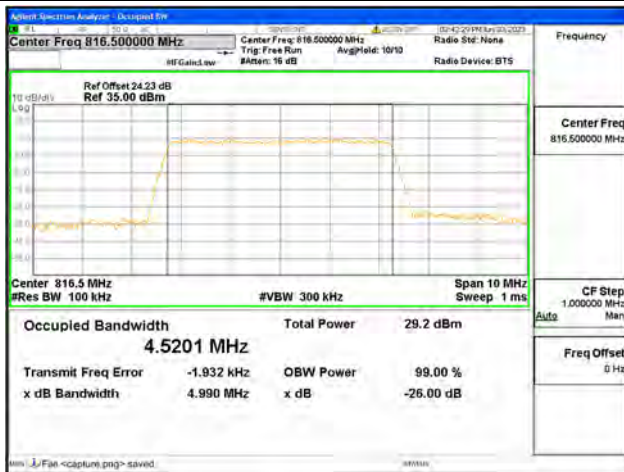
Band26 Part90 / 3MHz / 64QAM/ High CH



Band26 Part90 / 5MHz / QPSK/ Low CH



Band26 Part90 / 5MHz / 16QAM/ Low CH



Band26 Part90 / 5MHz / 64QAM/ Low CH



Band26 Part90 / 5MHz / QPSK/ Mid CH



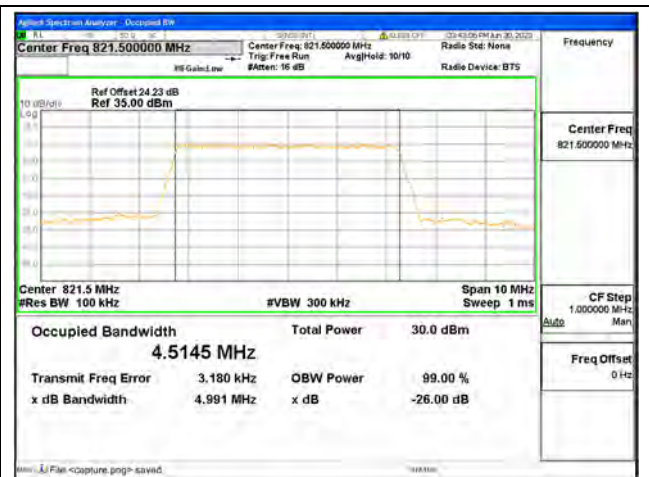
Band26 Part90 / 5MHz / 16QAM/ Mid CH



Band26 Part90 / 5MHz / 64QAM/ Mid CH



Band26 Part90 / 5MHz / QPSK/ High CH



Band26 Part90 / 5MHz / 16QAM/ High CH



Band26 Part90 / 5MHz / 64QAM/ High CH



Band26 Part90 / 10MHz / QPSK/ Mid CH



Band26 Part90 / 10MHz / 16QAM/ Mid CH



Band26 Part90 / 10MHz / 64QAM/ Mid CH

2.3. Frequency Stability

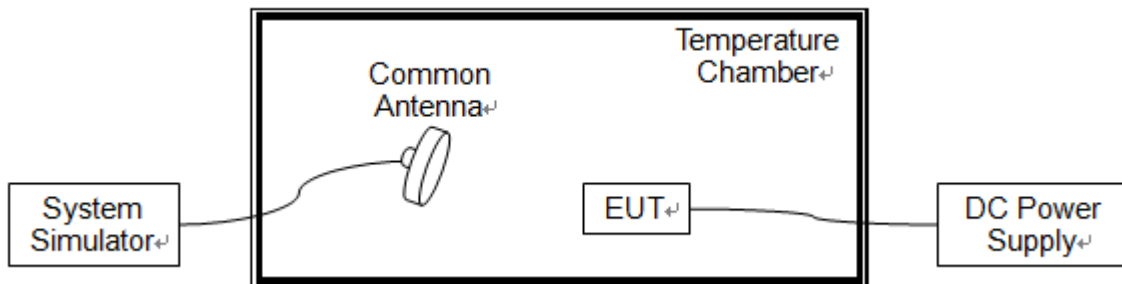
2.3.1. Requirement

According to FCC section 2.1055 & 90.213, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

Note: The operating temperature of EUT is from -30°C to 75°C , which are specified by the applicant.

2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

2.3.3. Test procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.



2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 3.80V, 4.30V and 3.40V, which are specified by the applicant; the normal temperature here used is 20°C.

LTE Band 14, QPSK, Channel 23330, Frequency 793.0MHz					
Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	18	0.023	PASS
Normal		-30	3	0.004	
Normal		-20	20	0.025	
Normal		-10	13	0.016	
Normal		0	-5	-0.006	
Normal		+10	13	0.016	
Normal		+20	17	0.021	
Normal		+30	-23	-0.029	
Normal		+40	-18	-0.023	
Normal		+50	13	0.016	
Normal		+60	-7	-0.009	
Normal		+70	19	0.024	
Normal		+75	-2	-0.003	
High		4.30	+20	19	
BATT.ENDPOINT	3.40	+20	16	0.020	



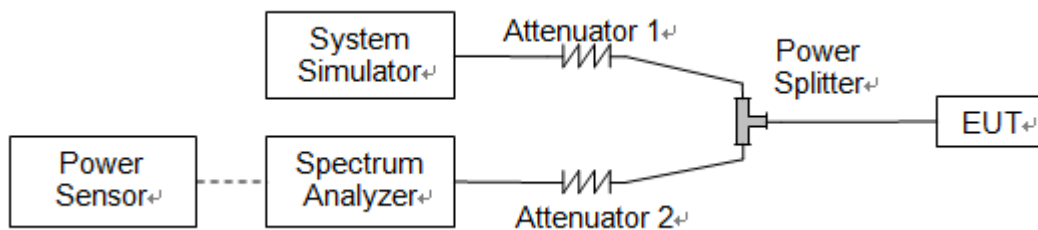
LTE Band 26, QPSK, Channel 26740, Frequency 819MHz					
Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	-10	-0.012	PASS
Normal		-30	14	0.017	
Normal		-20	20	0.024	
Normal		-10	17	0.021	
Normal		0	18	0.022	
Normal		+10	7	0.009	
Normal		+20	16	0.020	
Normal		+30	18	0.022	
Normal		+40	-23	-0.028	
Normal		+50	-16	-0.020	
Normal		+60	-1	-0.001	
Normal		+70	20	0.024	
Normal		+75	-16	-0.020	
High		4.30	+20	-22	
BATT.ENDPOINT	3.40	+20	20	0.024	

2.4. Conducted Spurious Emissions

2.4.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10*\log(P)$ dB. This calculated to be -13dBm.

2.4.2. Test Description



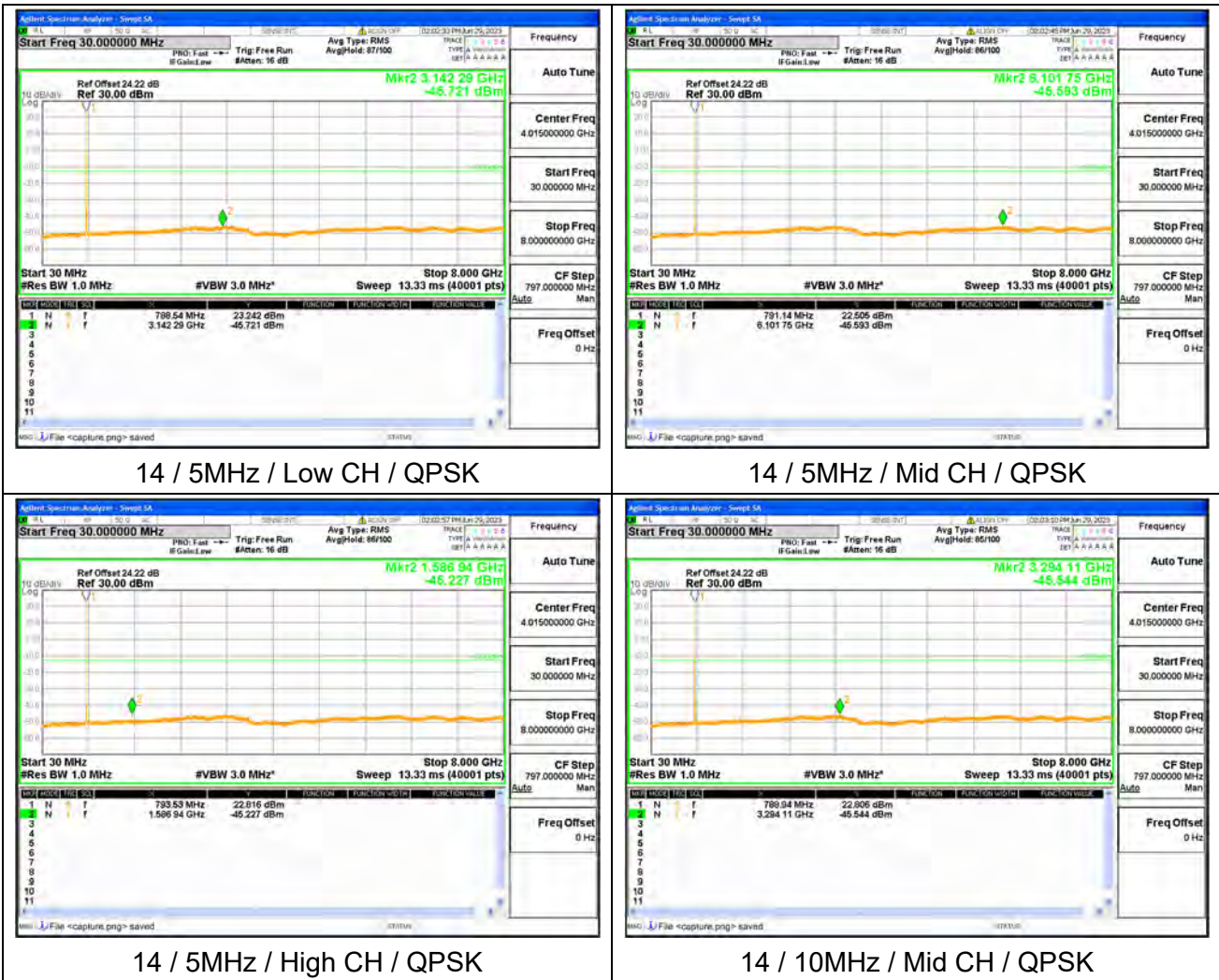
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

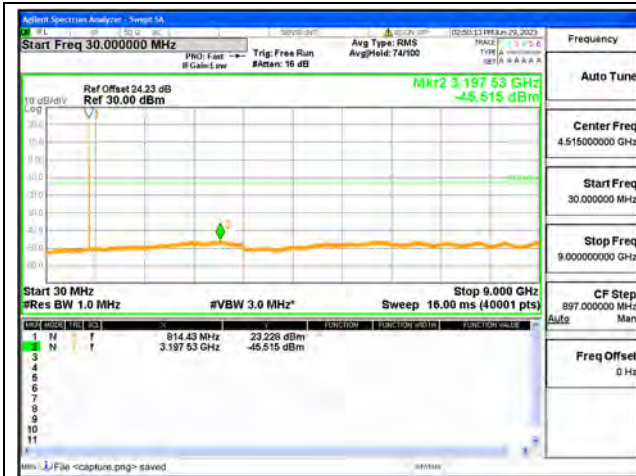
2.4.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

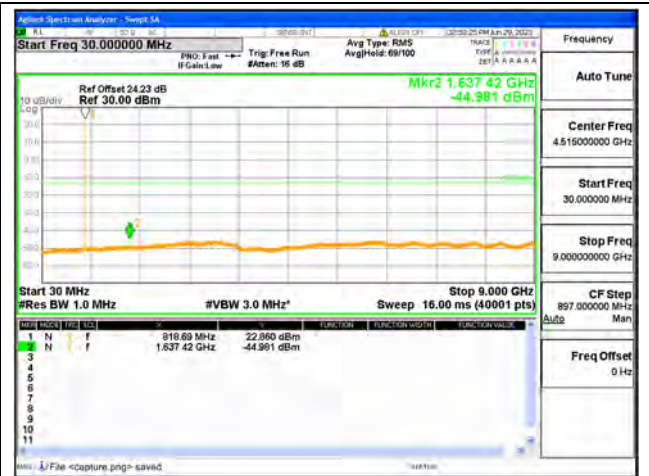


2.4.4. Test Result

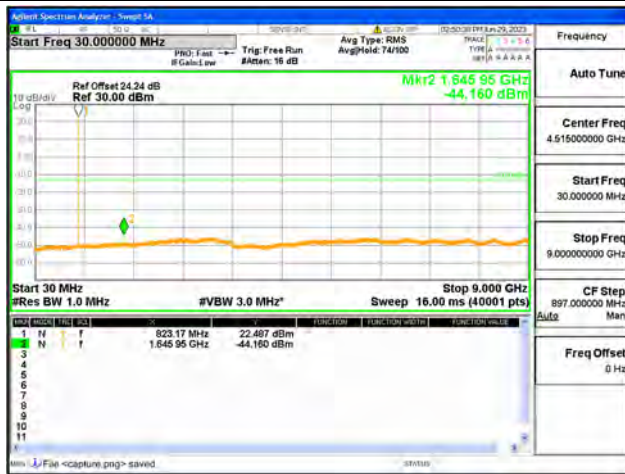




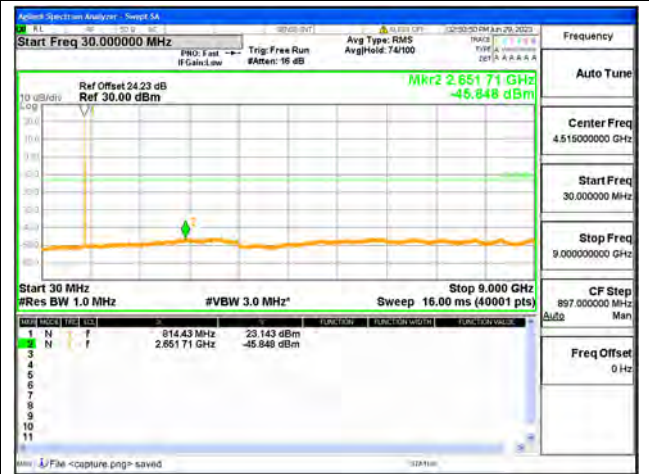
26 Part90 / 1.4MHz / Low CH / QPSK



26 Part90 / 1.4MHz / Mid CH / QPSK



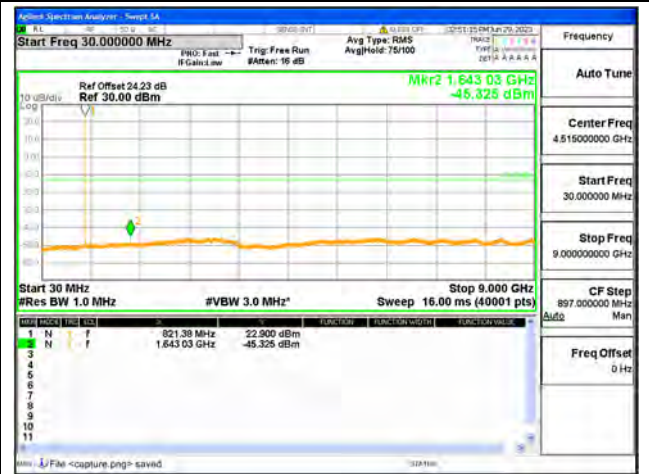
26 Part90 / 1.4MHz / High CH / QPSK



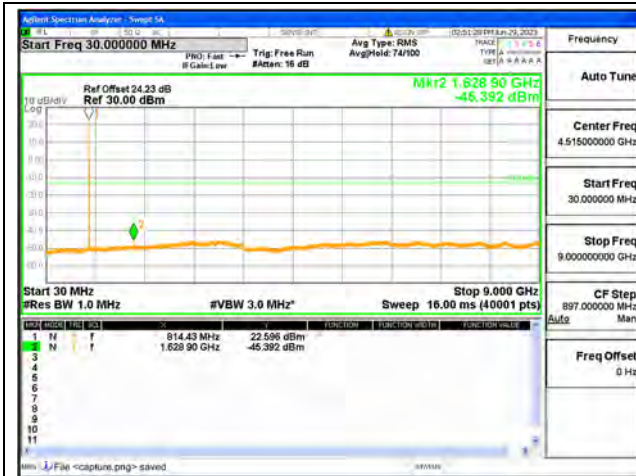
26 Part90 / 3MHz / Low CH / QPSK



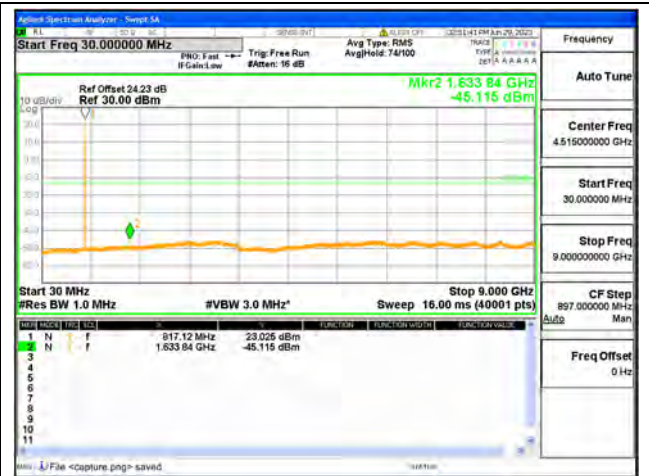
26 Part90 / 3MHz / Mid CH / QPSK



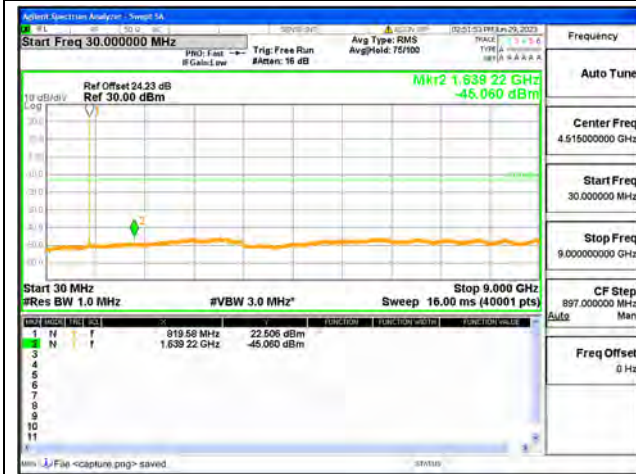
26 Part90 / 3MHz / High CH / QPSK



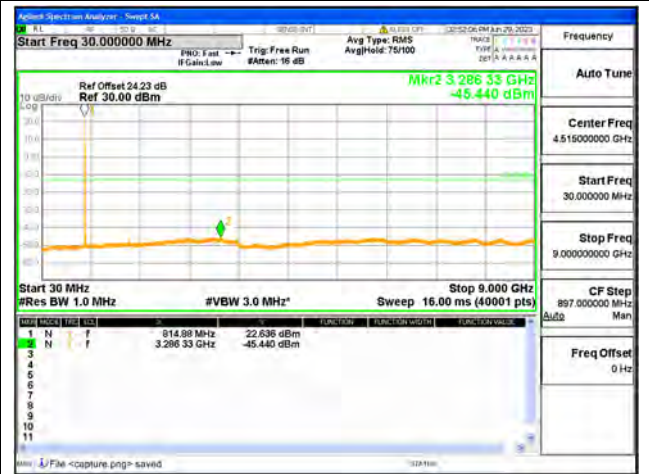
26 Part90 / 5MHz / Low CH / QPSK



26 Part90 / 5MHz / Mid CH / QPSK



26 Part90 / 5MHz / High CH / QPSK



26 Part90 / 10MHz / Mid CH / QPSK

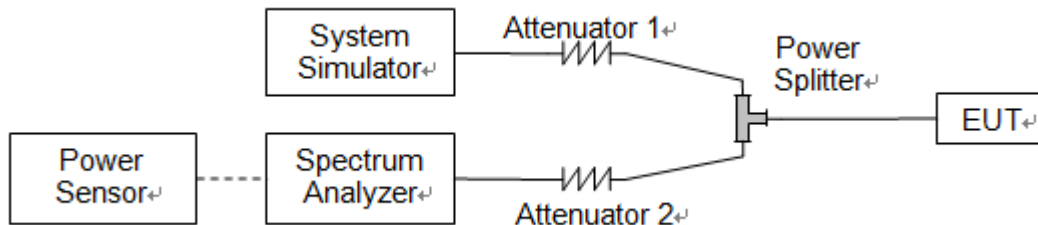
2.5. Band Edge

2.5.1. Requirement

Band26

According to FCC section 90.961(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

2.5.2. Test Description



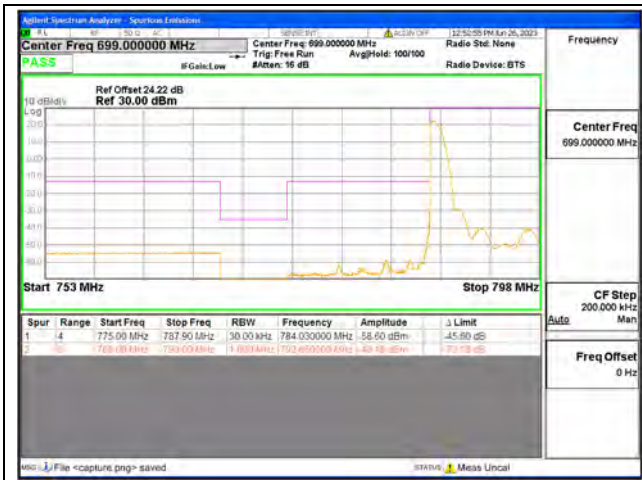
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.5.3. Test procedure

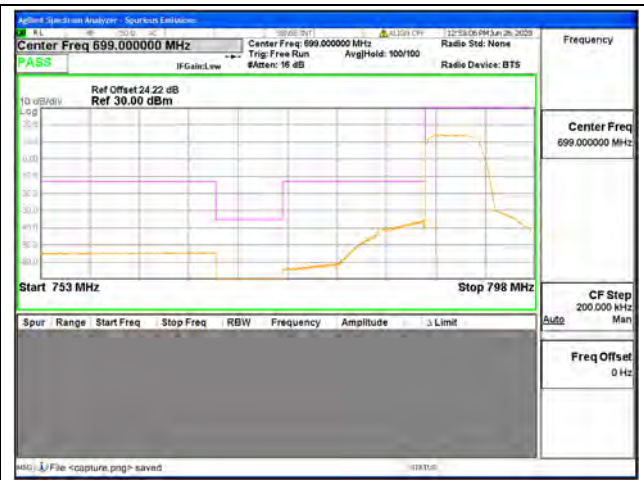
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.



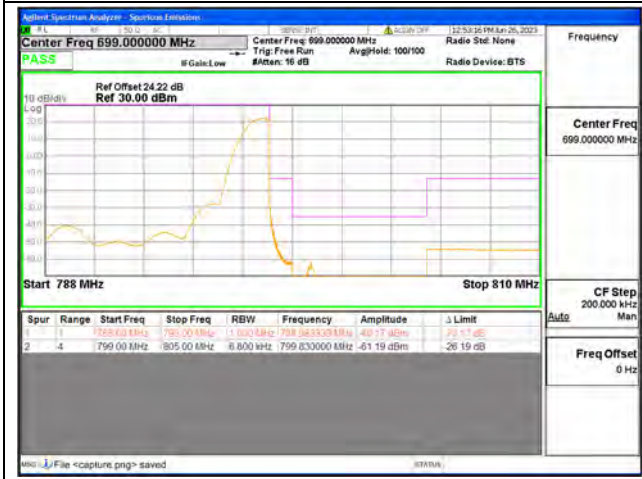
2.5.4. Test Result



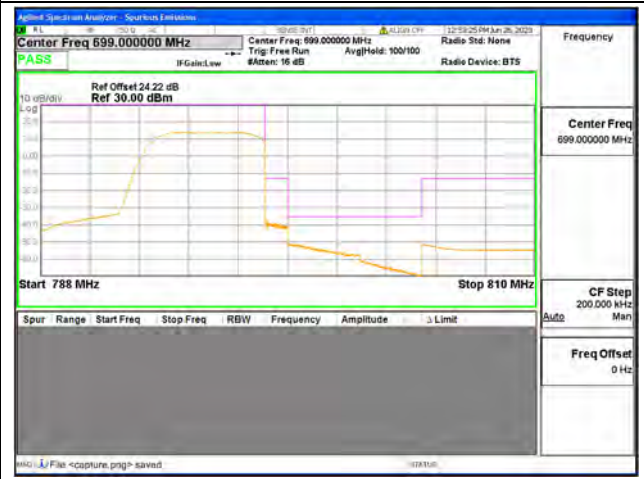
Band14 / 5MHz / Low CH / QPSK / 1 RB



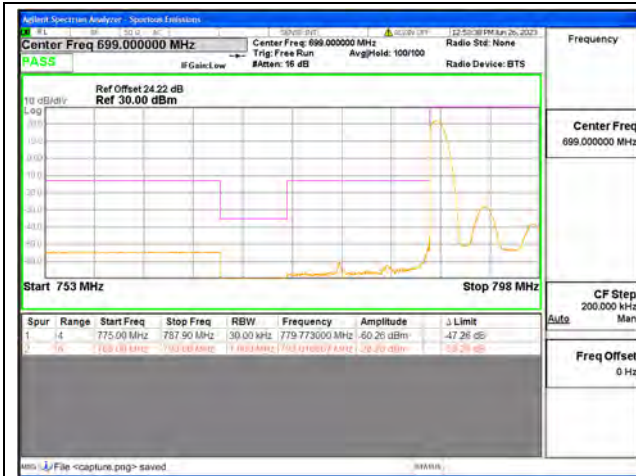
Band14 / 5MHz / Low CH / QPSK / FULL RB



Band14 / 5MHz / High CH / QPSK / 1 RB



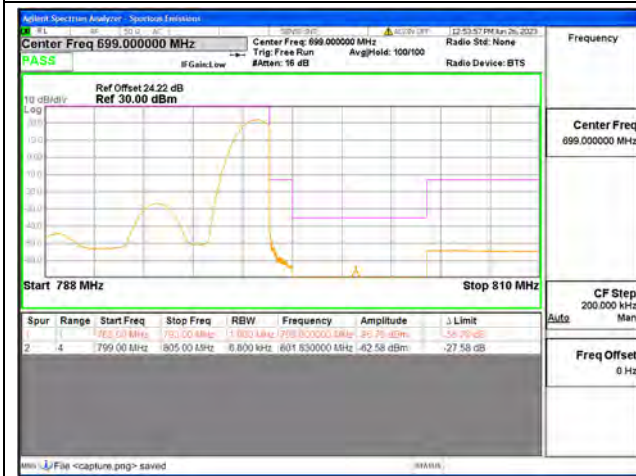
Band14 / 5MHz / High CH / QPSK / FULL RB



Band14 / 10MHz / Low CH / QPSK / 1 RB



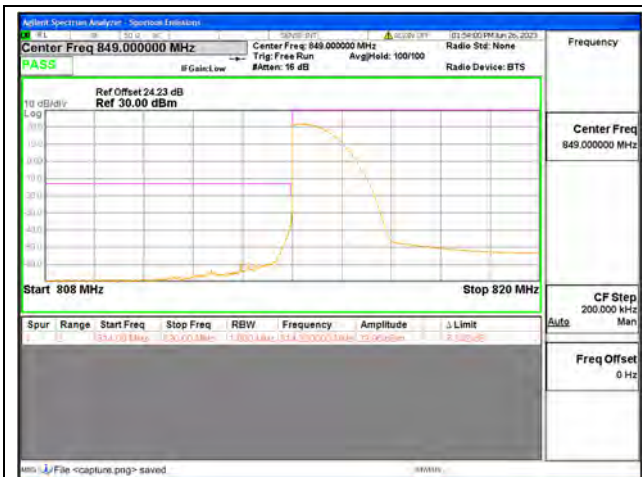
Band14 / 10MHz / Low CH / QPSK / FULL RB



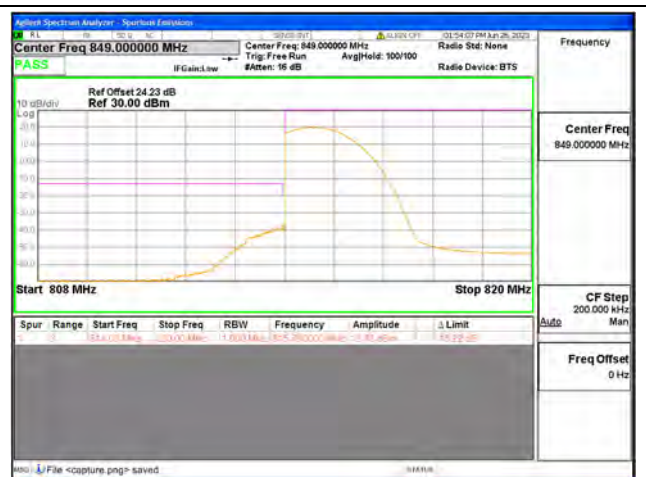
Band14 / 10MHz / High CH / QPSK / 1 RB



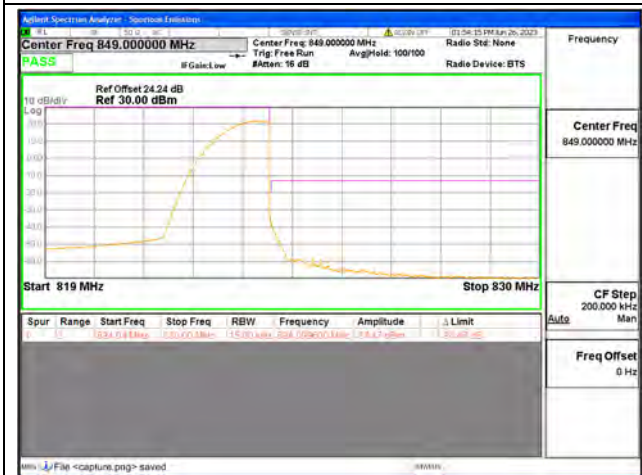
Band14 / 10MHz / High CH / QPSK / FULL RB



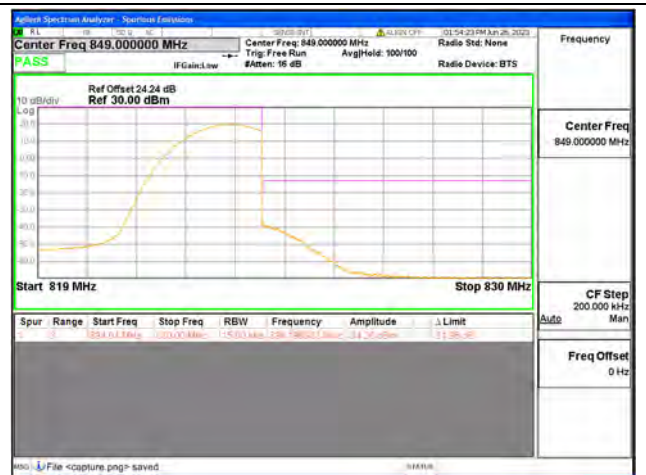
Band26 Part90 / 1.4MHz / Low CH / QPSK / 1 RB



Band26 Part90 / 1.4MHz / Low CH / QPSK / FULL RB



Band26 Part90 / 1.4MHz / High CH / QPSK / 1 RB



Band26 Part90 / 1.4MHz / High CH / QPSK / FULL RB



Band26 Part90 / 3MHz / Low CH / QPSK / 1 RB



Band26 Part90 / 3MHz / Low CH / QPSK / FULL RB



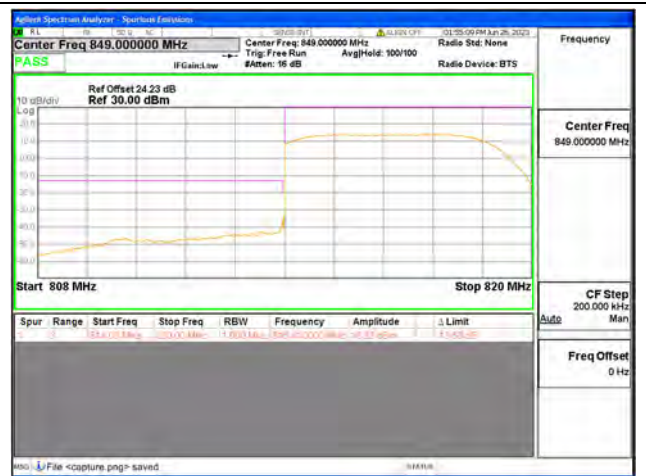
Band26 Part90 / 3MHz / High CH / QPSK / 1 RB



Band26 Part90 / 3MHz / High CH / QPSK / FULL RB



Band26 Part90 / 5MHz / Low CH / QPSK / 1 RB



Band26 Part90 / 5MHz / Low CH / QPSK / FULL RB



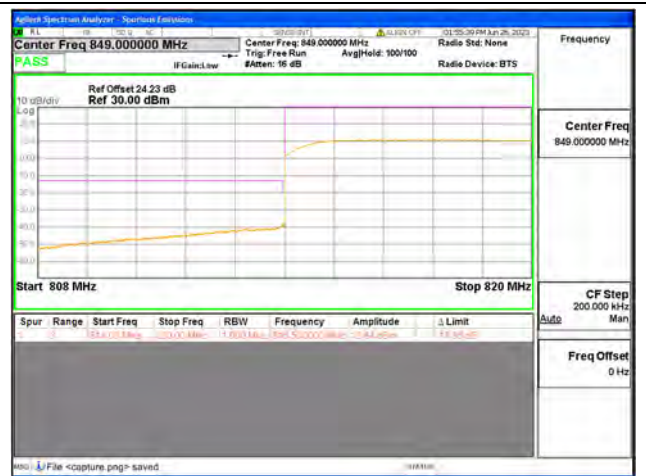
Band26 Part90 / 5MHz / High CH / QPSK / 1 RB



Band26 Part90 / 5MHz / High CH / QPSK / FULL RB



Band26 Part90 / 10MHz / Low CH / QPSK / 1 RB



Band26 Part90 / 10MHz / Low CH / QPSK / FULL RB



Band26 Part90 / 10MHz / High CH / QPSK / 1 RB



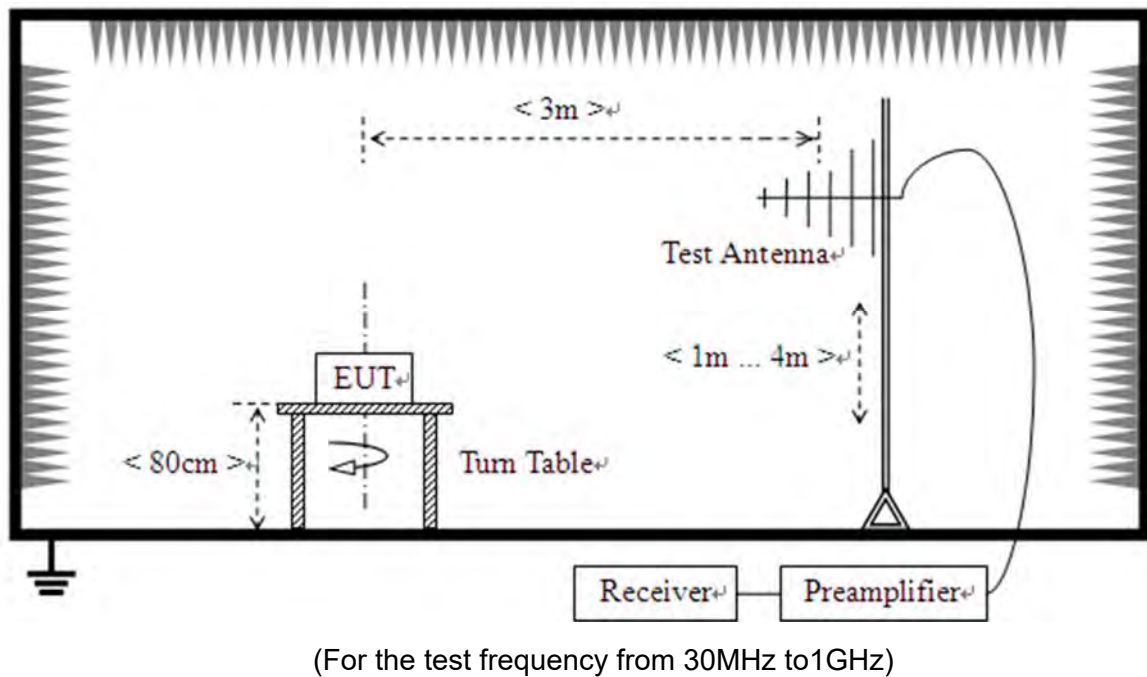
Band26 Part90 / 10MHz / High CH / QPSK / FULL RB

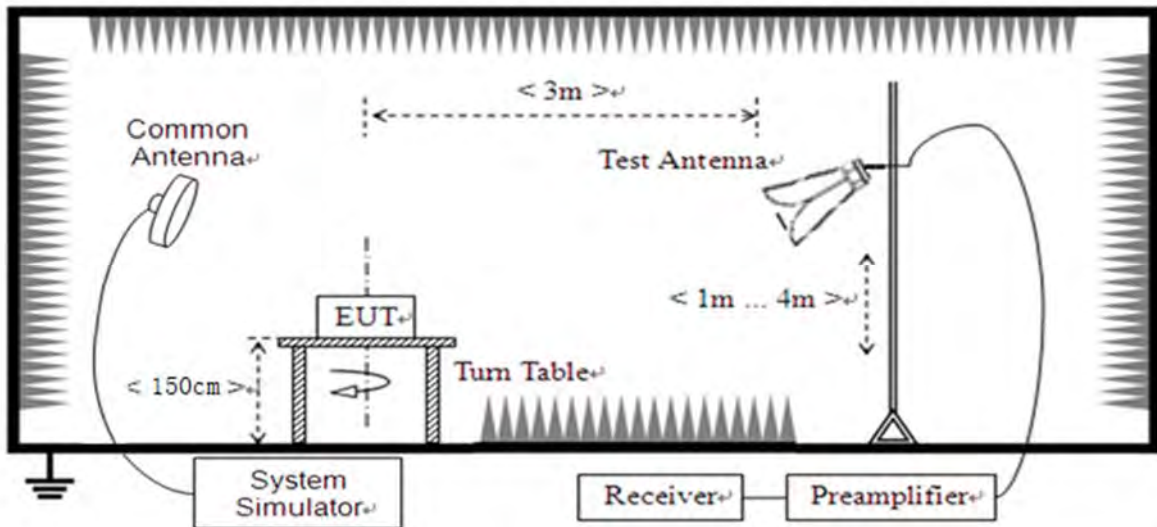
2.6. Radiated Spurious Emissions

2.6.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10*\log(P)$ dB. This calculated to be -13dBm.

2.6.2. Test Description





(For the test frequency above 1GHz)

The EUT 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, and only the test result of the maximum output power was recorded.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360° to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

Note: when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

2.6.3. Test procedure

KDB 971168 D01v03 Section 5.8 and ANSI/TIA-603-E-2016.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements.



2.6.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested to verify the out of band emissions.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST_TX}} - P_{\text{SUBST_RX}} - L_{\text{SUBST_CABLES}} + G_{\text{SUBST_TX_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

$P_{\text{SUBST_TX}}$ is signal generator level,

$P_{\text{SUBST_RX}}$ is receiver level,

$L_{\text{SUBST_CABLES}}$ is cable losses including TX cable,

$G_{\text{SUBST_TX_ANT}}$ is substitution antenna gain.

A_{TOT} is total correction factor including cable loss and substitution correction

During the test, the data of A_{TOT} was added in the test spectrum analyze, so spectrum analyze reading is the final values which contain the data of A_{TOT} .

Note1: The power of the EUT transmitting frequency should be ignored.

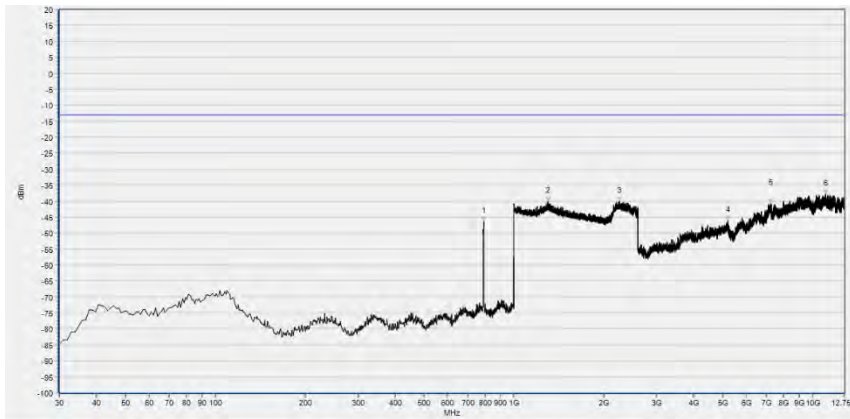
Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note3: All bandwidth and modulation were considered and evaluated respectively by performing full test for each band, only the worst cases (Max Bandwidth and QPSK mode) were recorded in this test report.

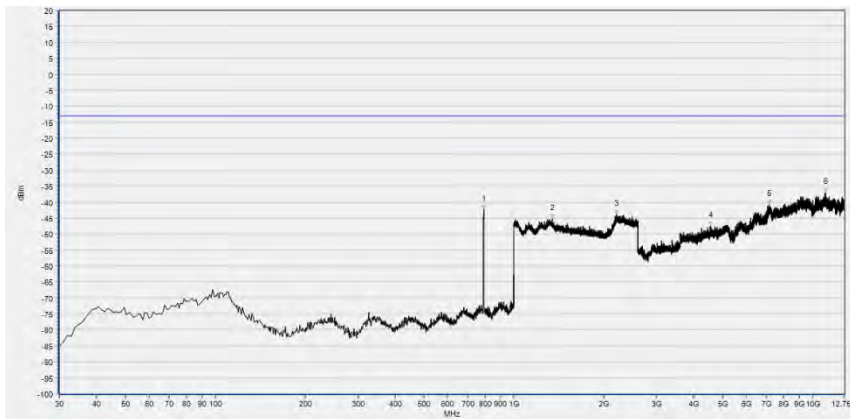
Note 4: N/A means the frequency is the basic frequency or the base station frequency, they are no need to verdict.

Note 5: The amplitude of emissions (18GHz to 10th harmonics) which are attenuated more than 20 dB below the limit are not be reported.

LTE Band 14, 5MHz BW, Low Channel, QPSK

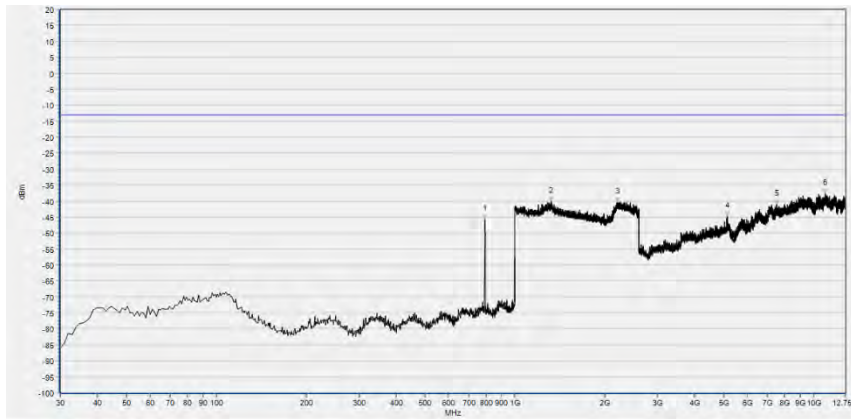


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	792.420	-46.43	-13.00	Horizontal	N/A
2	1298.359	-40.01	-13.00	Horizontal	PASS
3	2253.621	-40.15	-13.00	Horizontal	PASS
4	5197.027	-46.14	-13.00	Horizontal	PASS
5	7251.391	-40.80	-13.00	Horizontal	PASS
6	11061.102	-37.85	-13.00	Horizontal	PASS

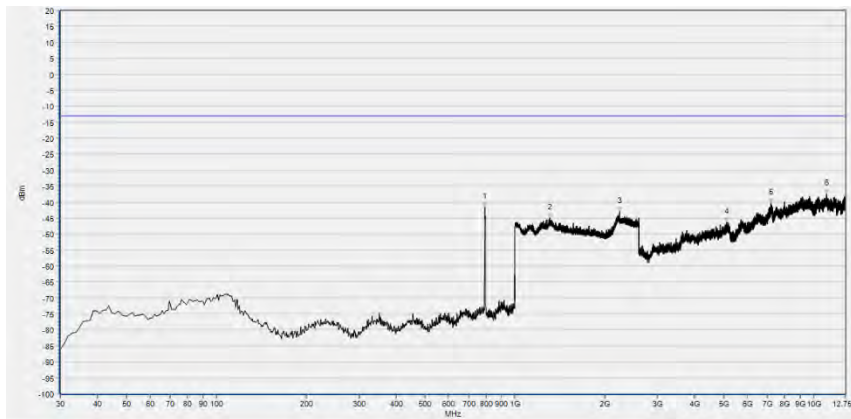


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	792.420	-42.24	-13.00	Vertical	N/A
2	1339.976	-45.19	-13.00	Vertical	PASS
3	2204.962	-43.84	-13.00	Vertical	PASS
4	4560.229	-47.38	-13.00	Vertical	PASS
5	7168.331	-40.86	-13.00	Vertical	PASS
6	11074.023	-37.06	-13.00	Vertical	PASS

LTE Band 14, 5MHz BW, Mid Channel, QPSK

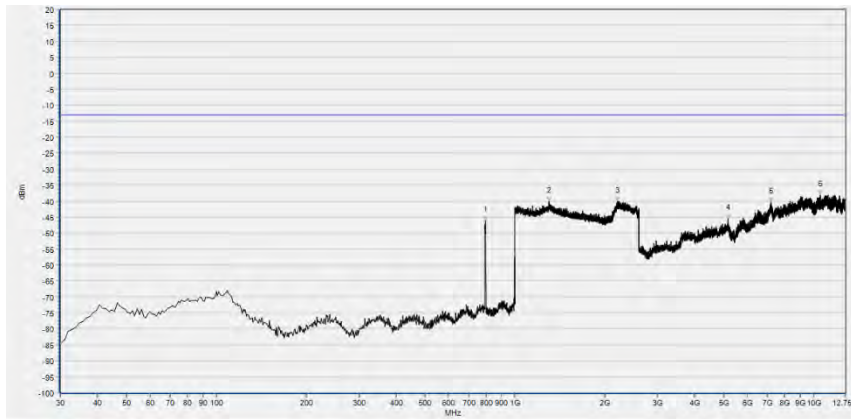


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	791.450	-45.81	-13.00	Horizontal	N/A
2	1320.768	-40.22	-13.00	Horizontal	PASS
3	2201.120	-40.43	-13.00	Horizontal	PASS
4	5141.653	-44.82	-13.00	Horizontal	PASS
5	7520.877	-41.04	-13.00	Horizontal	PASS
6	10928.205	-37.70	-13.00	Horizontal	PASS

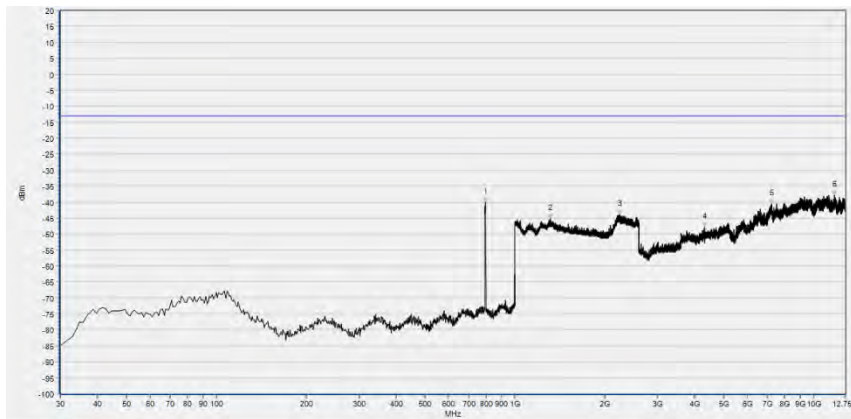


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	792.420	-41.67	-13.00	Vertical	N/A
2	1307.963	-45.07	-13.00	Vertical	PASS
3	2235.054	-43.02	-13.00	Vertical	PASS
4	5126.887	-46.38	-13.00	Vertical	PASS
5	7203.401	-40.28	-13.00	Vertical	PASS
6	11066.639	-37.34	-13.00	Vertical	PASS

LTE Band 14, 5MHz BW, High Channel, QPSK

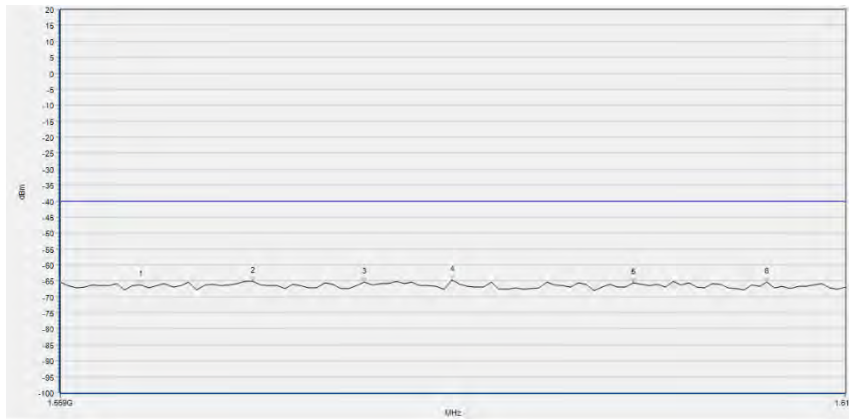


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	797.270	-46.24	-13.00	Horizontal	N/A
2	1301.561	-40.21	-13.00	Horizontal	PASS
3	2200.480	-40.19	-13.00	Horizontal	PASS
4	5160.111	-45.53	-13.00	Horizontal	PASS
5	7177.560	-40.44	-13.00	Horizontal	PASS
6	10494.444	-38.09	-13.00	Horizontal	PASS

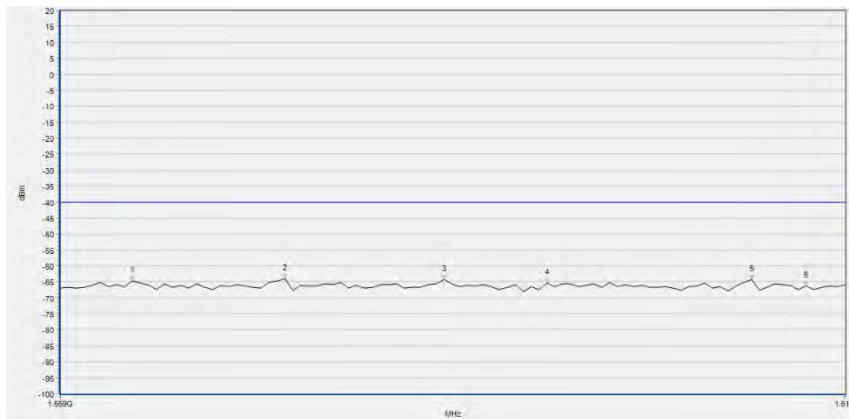


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	797.270	-40.15	-13.00	Vertical	N/A
2	1311.805	-45.29	-13.00	Vertical	PASS
3	2242.097	-44.01	-13.00	Vertical	PASS
4	4309.202	-47.87	-13.00	Vertical	PASS
5	7249.545	-40.62	-13.00	Vertical	PASS
6	11729.278	-37.81	-13.00	Vertical	PASS

LTE Band 14, 1559MHz-1610MHz, 5MHz BW, Mid Channel, QPSK

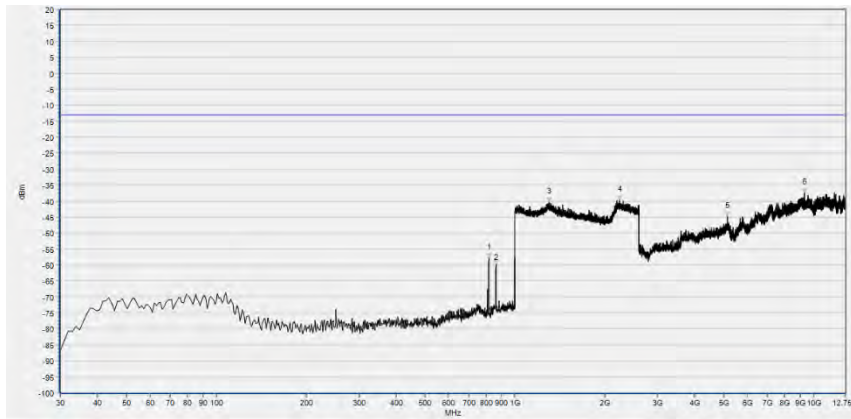


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	1564.152	-66.22	-40.00	Horizontal	PASS
2	1571.364	-65.21	-40.00	Horizontal	PASS
3	1578.576	-65.44	-40.00	Horizontal	PASS
4	1584.242	-64.78	-40.00	Horizontal	PASS
5	1596.091	-65.62	-40.00	Horizontal	PASS
6	1604.848	-65.27	-40.00	Horizontal	PASS

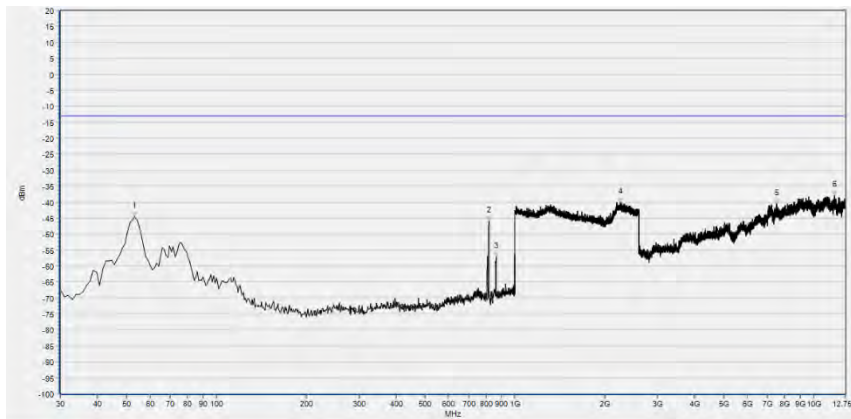


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	1563.636	-64.79	-40.00	Vertical	PASS
2	1573.424	-63.96	-40.00	Vertical	PASS
3	1583.727	-64.26	-40.00	Vertical	PASS
4	1590.424	-65.27	-40.00	Vertical	PASS
5	1603.818	-64.27	-40.00	Vertical	PASS
6	1607.424	-66.36	-40.00	Vertical	PASS

LTE Band 26, 5MHz BW, Low Channel, QPSK

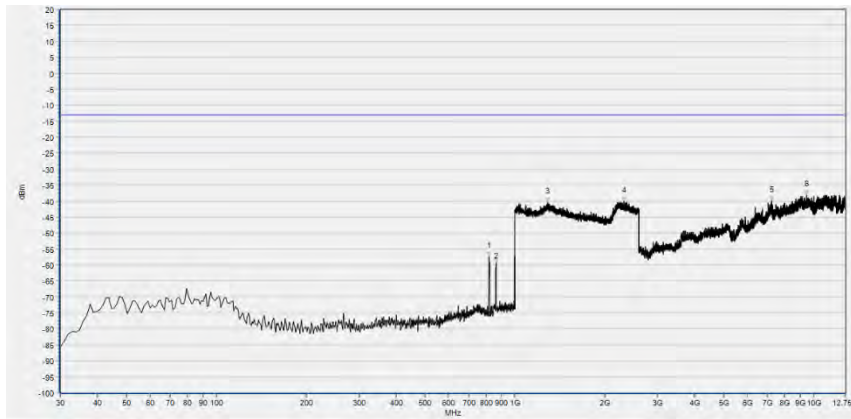


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	816.670	-57.76	-13.00	Horizontal	N/A
2	863.230	-59.68	-13.00	Horizontal	N/A
3	1302.841	-40.44	-13.00	Horizontal	PASS
4	2242.097	-39.76	-13.00	Horizontal	PASS
5	5141.653	-44.79	-13.00	Horizontal	PASS
6	9316.830	-37.40	-13.00	Horizontal	PASS

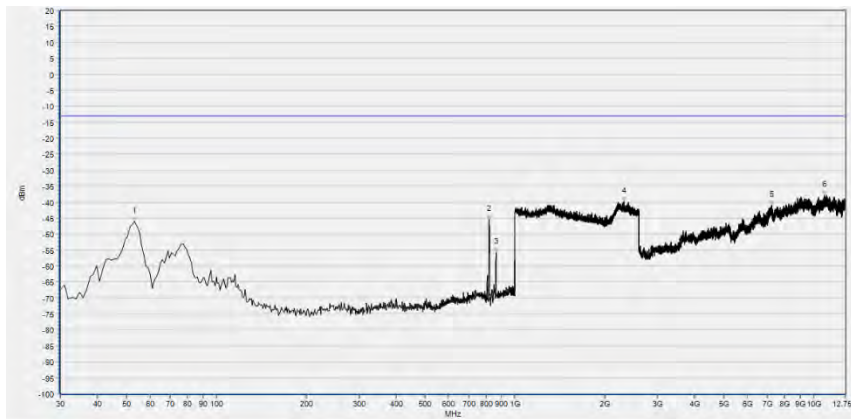


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	53.280	-44.51	-13.00	Vertical	PASS
2	816.670	-45.90	-13.00	Vertical	N/A
3	863.230	-57.20	-13.00	Vertical	N/A
4	2255.542	-40.14	-13.00	Vertical	PASS
5	7530.105	-40.63	-13.00	Vertical	PASS
6	11738.507	-37.88	-13.00	Vertical	PASS

LTE Band 26, 5MHz BW, Mid Channel, QPSK

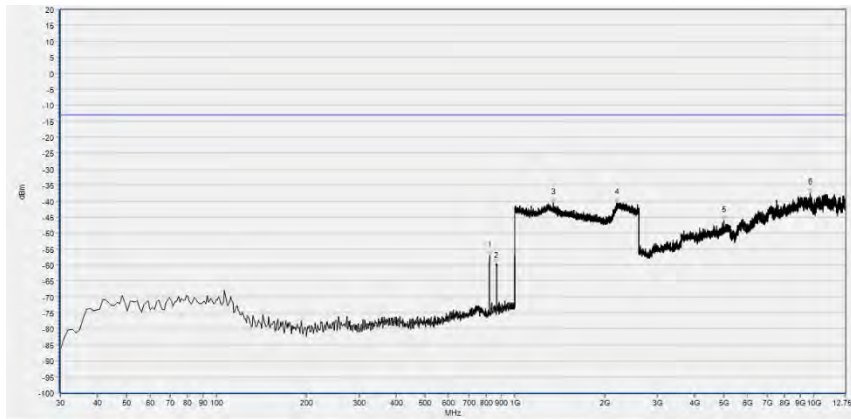


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	816.670	-57.40	-13.00	Horizontal	PASS
2	864.200	-59.27	-13.00	Horizontal	N/A
3	1286.835	-40.38	-13.00	Horizontal	N/A
4	2315.086	-40.20	-13.00	Horizontal	PASS
5	7232.933	-39.78	-13.00	Horizontal	PASS
6	9451.573	-38.11	-13.00	Horizontal	PASS

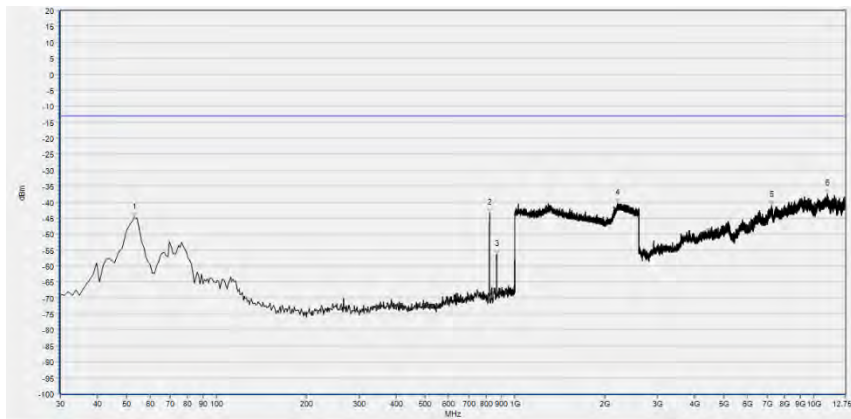


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	53.280	-46.05	-13.00	Vertical	N/A
2	817.640	-45.49	-13.00	Vertical	N/A
3	865.170	-55.74	-13.00	Vertical	PASS
4	2315.086	-39.81	-13.00	Vertical	PASS
5	7253.237	-41.07	-13.00	Vertical	PASS
6	10865.448	-37.92	-13.00	Vertical	PASS

LTE Band 26, 5MHz BW, High Channel, QPSK



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	823.460	-57.12	-13.00	Horizontal	N/A
2	867.110	-59.56	-13.00	Horizontal	N/A
3	1341.897	-40.53	-13.00	Horizontal	PASS
4	2192.157	-40.64	-13.00	Horizontal	PASS
5	5010.602	-46.14	-13.00	Horizontal	PASS
6	9713.675	-37.42	-13.00	Horizontal	PASS



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	53.280	-44.90	-13.00	Vertical	PASS
2	822.490	-43.37	-13.00	Vertical	N/A
3	868.080	-56.47	-13.00	Vertical	N/A
4	2199.840	-40.36	-13.00	Vertical	PASS
5	7231.087	-41.11	-13.00	Vertical	PASS
6	11123.859	-37.35	-13.00	Vertical	PASS



Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test items	Uncertainty
Output Power	± 2.22 dB
Bandwidth	$\pm 5\%$
Conducted Spurious Emission	± 2.77 dB
Band Edge	± 2.77 dB
Equivalent Isotropic Radiated Power	± 2.22 dB
Radiated Spurious Emissions	± 6 dB

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

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

2. Identification of the Responsible Testing Location

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

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.



4. Test Equipments Utilized

4.1 Conducted Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY51511149	N9020A	Agilent	2022.07.04	2023.07.03
				2023.06.21	2024.06.20
Communication Test Station	6200995016	MT8820C	Anritsu	2022.10.11	2023.10.10
Temperature Chamber	S022177101 00089002	KMT-36LF 1A0	KOMEG	2022.11.18	2023.11.17

4.2 List of Software Used

Description	Manufacturer	Software Version
Morlab FCC LTE Test System	MORLAB	V6.65
MORLAB EMCR	MORLAB	V1.2

**4.3 Radiated Test Equipments**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
System Simulator	152038	CMW500	R&S	2022.10.11	2023.10.10
Receiver	MY54130016	N9038A	Agilent	2022.07.07	2023.07.06
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2022.05.25	2025.05.24
Test Antenna - Horn	9170C-531	BBHA9170	Schwarzbeck	2022.05.23	2025.05.24
Coaxial cable (N male) (9KHz-30MHz)	CB04	EMC04	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-26GHz)	CB02	EMC02	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-26GHz)	CB03	EMC03	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-40GHz)	CB05	EMC05	Morlab	N/A	N/A
1-18GHz pre-Amplifier	61171/61172	S020180L3203	Tonscend	2022.07.08	2023.07.07
18-26.5GHz pre-Amplifier	46732	S10M100L3802	Tonscend	2022.07.08	2023.07.07
26-40GHz pre-Amplifier	56774	S40M400L4002	Tonscend	2022.07.08	2023.07.07
Notch Filter	N/A	WRCGV-LTE 26	Wainwright	2022.07.08	2023.07.07
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.05.10	2025.05.09

END OF REPORT