



REPORT No.: SZ24040308W03

TEST REPORT

APPLICANT : POCKETALK CORPORATION

PRODUCT NAME : POCKETALK S2

MODEL NAME : PTS2

BRAND NAME : POCKETALK

FCC ID : 2BGXA-PTS2

STANDARD(S) : 47 CFR Part 2
47 CFR Part 90, Subpart S

RECEIPT DATE : 2024-06-07

TEST DATE : 2024-06-15 to 2024-07-04

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Edited by:

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DIRECTORY

1. Technical Information	3
1.1. Applicant and Manufacturer Information	3
1.2. Equipment Under Test (EUT) Description	3
1.3. Maximum E.R.P./E.I.R.P. and Emission Designator	5
1.4. Test Standards and Results	6
1.5. Environmental Conditions	7
2. 47 CFR Part 2, Part 90S Requirements	8
2.1. Transmitter Conducted Output Power and E.R.P./E.I.R.P.	8
2.2. Occupied Bandwidth	19
2.3. Frequency Stability	31
2.4. Conducted Spurious Emissions	33
2.5. Band Edge	37
2.6. Radiated Spurious Emissions	42
Annex A Test Uncertainty	51
Annex B Testing Laboratory Information	52

Change History		
Version	Date	Reason for change
1.0	2024-08-15	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	POCKETALK CORPORATION
Applicant Address:	4F Hamamatsucho PREX, 2-2-12 Shiba, Minato-ku, Tokyo 105-0014, Japan
Manufacturer:	JENESIS (SHEN ZHEN) CO., LTD.
Manufacturer Address:	6th Floor, Building A, No.2 Luozhu Industrial Avenue, Luozhu Community, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province.

1.2. Equipment Under Test (EUT) Description

Product Name:	POCKETALK S2	
Sample No.:	8#	
Hardware Version:	V1.0	
Software Version:	V1.0.2	
Modulation Type:	QPSK, 16QAM, 64QAM	
Operation Band:	Band 18, 26	
Frequency Range:	LTE Band 18	Tx: 815MHz–824MHz
		Rx: 860MHz–869MHz
	LTE Band 26	Tx: 814MHz–824MHz
		Rx: 859MHz–869MHz
Channel Bandwidth	LTE Band 18	5MHz
	LTE Band 26	1.4MHz, 3MHz, 5MHz, 10MHz
Antenna Type:	PIFA Internal Antenna	
Antenna Gain:	LTE Band 18	0.18dBi
	LTE Band 26	0.62dBi



Accessory Information:	Battery	
	Brand Name:	N/A
	Model No.:	PT393952
	Serial No.:	N/A
	Capacity:	1200mAh
	Rated Voltage:	3.8V
	Charge Limit:	4.35V
	Manufacturer:	Guangdong Pow-Tech New Power Co., Ltd.
	AC Adapter 1	
	Brand Name:	FLYPOWER
	Model No.:	PS06CA050K1000UU
	Serial No.:	N/A
	Rated Output:	5V $\overline{=}$ 1A
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.25A
	Manufacturer:	Shenzhen Flypower Technology Co., Ltd.
	AC Adapter 2	
	Brand Name:	FLYPOWER
	Model No.:	PS06CA050K1000JU
	Serial No.:	N/A
	Rated Output:	5V $\overline{=}$ 1A
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.25A
	Manufacturer:	Shenzhen Flypower Technology Co., Ltd.
	USB Cable	
	Model No.:	N/A
	Manufacturer:	DONG GUAN KOMAK ELECTRONICSCO.,LTD

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 18	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5	0.123	0.105	0.082	4M48G7D	4M48W7D	4M49W7D
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	0.157	0.135	0.100	8M95G7D	8M94W7D	8M95W7D
5	0.156	0.135	0.104	4M48G7D	4M48W7D	4M49W7D
3	0.154	0.121	0.097	2M69G7D	2M70W7D	2M70W7D
1.4	0.139	0.114	0.092	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. 17, 2024	Yu Xiaoming Gan Jing	PASS	No deviation
90.209	Occupied Bandwidth	Jun. 17, 2024	Gan Jing	PASS	No deviation
2.1055, 90.213	Frequency Stability	Jun. 17, 2024	Gan Jing	PASS	No deviation
2.1051, 90.691	Conducted Spurious Emissions	Jun. 17, 2024	Gan Jing	PASS	No deviation
2.1051, 90.691	Band Edge	Jun. 17, 2024	Gan Jing	PASS	No deviation
2.1053, 90.691	Radiated Spurious Emissions	Jun. 19, 2024 to Jul. 04, 2024	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: 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 3: 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

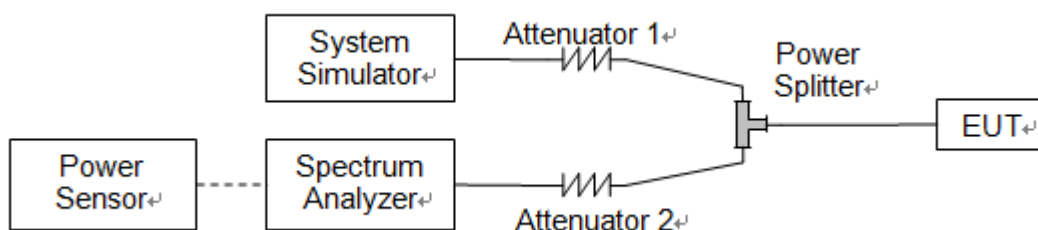
2.1. Transmitter Conducted Output Power and E.R.P./E.I.R.P.

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 18						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23875	23895	23915
Frequency (MHz)				817.5	819.5	821.5
5	QPSK	1	0	22.56	22.70	22.69
5	QPSK	1	12	22.87	22.87	22.86
5	QPSK	1	24	22.37	22.67	22.65
5	QPSK	12	0	21.80	21.79	21.81
5	QPSK	12	7	21.94	21.78	21.89
5	QPSK	12	13	21.90	21.82	21.79
5	QPSK	25	0	21.87	21.85	21.85
5	16QAM	1	0	21.69	21.97	21.96
5	16QAM	1	12	22.07	22.18	22.12
5	16QAM	1	24	21.66	21.90	21.91
5	16QAM	12	0	20.81	20.80	20.81
5	16QAM	12	7	20.95	20.92	20.82
5	16QAM	12	13	20.82	20.84	20.79
5	16QAM	25	0	20.67	20.81	20.81
5	64QAM	1	0	20.40	20.60	20.63
5	64QAM	1	12	20.60	21.11	20.97
5	64QAM	1	24	20.37	20.56	20.63
5	64QAM	12	0	19.92	19.88	19.88
5	64QAM	12	7	20.04	19.98	19.95
5	64QAM	12	13	19.98	19.93	19.89
5	64QAM	25	0	19.86	19.86	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				/	26740	/
Frequency (MHz)				/	819.0	/
10	QPSK	1	0	/	23.18	/
10	QPSK	1	25	/	23.49	/
10	QPSK	1	49	/	23.34	/
10	QPSK	25	0	/	22.35	/
10	QPSK	25	12	/	22.43	/
10	QPSK	25	25	/	22.51	/
10	QPSK	50	0	/	22.42	/
10	16QAM	1	0	/	22.64	/
10	16QAM	1	25	/	22.82	/
10	16QAM	1	49	/	22.65	/
10	16QAM	25	0	/	21.43	/
10	16QAM	25	12	/	21.43	/
10	16QAM	25	25	/	21.39	/
10	16QAM	50	0	/	21.42	/
10	64QAM	1	0	/	21.53	/
10	64QAM	1	25	/	21.42	/
10	64QAM	1	49	/	21.45	/
10	64QAM	25	0	/	20.41	/
10	64QAM	25	12	/	20.51	/
10	64QAM	25	25	/	20.49	/
10	64QAM	50	0	/	20.46	/



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	23.24	23.15	23.20
5	QPSK	1	12	23.40	23.33	23.45
5	QPSK	1	24	23.30	23.16	23.15
5	QPSK	12	0	22.22	22.11	22.46
5	QPSK	12	7	22.39	22.30	22.32
5	QPSK	12	13	22.51	22.11	22.30
5	QPSK	25	0	22.45	22.46	22.49
5	16QAM	1	0	22.58	22.45	22.58
5	16QAM	1	12	22.83	22.73	22.82
5	16QAM	1	24	22.69	22.44	22.50
5	16QAM	12	0	21.42	21.37	21.44
5	16QAM	12	7	21.57	21.51	21.49
5	16QAM	12	13	21.58	21.48	21.43
5	16QAM	25	0	21.50	21.45	21.45
5	64QAM	1	0	21.48	21.42	21.49
5	64QAM	1	12	21.70	21.31	21.50
5	64QAM	1	24	21.34	21.36	21.46
5	64QAM	12	0	20.39	20.38	20.48
5	64QAM	12	7	20.60	20.58	20.63
5	64QAM	12	13	20.57	20.47	20.53
5	64QAM	25	0	20.50	20.47	20.50



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	22.74	22.96	23.41
3	QPSK	1	8	22.84	22.89	23.37
3	QPSK	1	14	22.94	22.95	23.38
3	QPSK	8	0	21.78	22.00	22.53
3	QPSK	8	4	22.03	22.07	22.54
3	QPSK	8	7	22.05	21.97	22.52
3	QPSK	15	0	21.99	22.03	22.50
3	16QAM	1	0	22.03	22.17	22.29
3	16QAM	1	8	22.12	22.16	22.34
3	16QAM	1	14	22.12	22.03	22.25
3	16QAM	8	0	20.99	21.07	21.38
3	16QAM	8	4	21.08	21.09	21.52
3	16QAM	8	7	21.09	21.07	21.49
3	16QAM	15	0	21.02	21.06	21.48
3	64QAM	1	0	20.61	20.74	21.39
3	64QAM	1	8	20.69	20.61	21.24
3	64QAM	1	14	20.65	20.62	21.17
3	64QAM	8	0	20.10	20.14	20.49
3	64QAM	8	4	20.16	20.16	20.42
3	64QAM	8	7	20.17	20.13	20.46
3	64QAM	15	0	20.04	20.09	20.54



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	22.48	22.67	22.70
1.4	QPSK	1	3	22.90	22.93	22.81
1.4	QPSK	1	5	22.58	22.63	22.67
1.4	QPSK	3	0	22.91	22.95	22.87
1.4	QPSK	3	1	22.93	22.97	22.89
1.4	QPSK	3	3	22.87	22.92	22.84
1.4	QPSK	6	0	21.97	21.96	21.66
1.4	16QAM	1	0	21.88	21.94	21.95
1.4	16QAM	1	3	22.08	22.06	22.08
1.4	16QAM	1	5	21.80	21.92	21.89
1.4	16QAM	3	0	21.96	21.57	21.63
1.4	16QAM	3	1	22.00	21.64	21.81
1.4	16QAM	3	3	21.96	21.68	21.78
1.4	16QAM	6	0	21.02	21.05	21.04
1.4	64QAM	1	0	20.52	20.56	20.60
1.4	64QAM	1	3	20.56	20.61	20.62
1.4	64QAM	1	5	20.51	20.56	20.51
1.4	64QAM	3	0	21.09	21.06	21.06
1.4	64QAM	3	1	21.14	21.18	21.12
1.4	64QAM	3	3	21.08	21.02	21.08
1.4	64QAM	6	0	19.98	19.93	19.92

**Effective Radiated Power and Effective Isotropic Radiated Power**

LTE Band 18				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)				817.5		819.0		821.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	20.59	0.115	20.73	0.118	20.72	0.118
5	QPSK	1	12	20.90	0.123	20.90	0.123	20.89	0.123
5	QPSK	1	24	20.40	0.110	20.70	0.117	20.68	0.117
5	QPSK	12	0	19.83	0.096	19.82	0.096	19.84	0.096
5	QPSK	12	7	19.97	0.099	19.81	0.096	19.92	0.098
5	QPSK	12	13	19.93	0.098	19.85	0.097	19.82	0.096
5	QPSK	25	0	19.90	0.098	19.88	0.097	19.88	0.097
5	16QAM	1	0	19.72	0.094	20.00	0.100	19.99	0.100
5	16QAM	1	12	20.10	0.102	20.21	0.105	20.15	0.104
5	16QAM	1	24	19.69	0.093	19.93	0.098	19.94	0.099
5	16QAM	12	0	18.84	0.077	18.83	0.076	18.84	0.077
5	16QAM	12	7	18.98	0.079	18.95	0.079	18.85	0.077
5	16QAM	12	13	18.85	0.077	18.87	0.077	18.82	0.076
5	16QAM	25	0	18.70	0.074	18.84	0.077	18.84	0.077
5	64QAM	1	0	18.43	0.070	18.63	0.073	18.66	0.073
5	64QAM	1	12	18.63	0.073	19.14	0.082	19.00	0.079
5	64QAM	1	24	18.40	0.069	18.59	0.072	18.66	0.073
5	64QAM	12	0	17.95	0.062	17.91	0.062	17.91	0.062
5	64QAM	12	7	18.07	0.064	18.01	0.063	17.98	0.063
5	64QAM	12	13	18.01	0.063	17.96	0.063	17.92	0.062
5	64QAM	25	0	17.89	0.062	17.89	0.062	17.85	0.061



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	/	21.65	0.146	/
10	QPSK	1	25	/	21.96	0.157	/
10	QPSK	1	49	/	21.81	0.152	/
10	QPSK	25	0	/	20.82	0.121	/
10	QPSK	25	12	/	20.90	0.123	/
10	QPSK	25	25	/	20.98	0.125	/
10	QPSK	50	0	/	20.89	0.123	/
10	16QAM	1	0	/	21.11	0.129	/
10	16QAM	1	25	/	21.29	0.135	/
10	16QAM	1	49	/	21.12	0.129	/
10	16QAM	25	0	/	19.90	0.098	/
10	16QAM	25	12	/	19.90	0.098	/
10	16QAM	25	25	/	19.86	0.097	/
10	16QAM	50	0	/	19.89	0.097	/
10	64QAM	1	0	/	20.00	0.100	/
10	64QAM	1	25	/	19.89	0.097	/
10	64QAM	1	49	/	19.92	0.098	/
10	64QAM	25	0	/	18.88	0.077	/
10	64QAM	25	12	/	18.98	0.079	/
10	64QAM	25	25	/	18.96	0.079	/
10	64QAM	50	0	/	18.93	0.078	/



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	21.71	0.148	21.62	0.145	21.67	0.147
5	QPSK	1	12	21.87	0.154	21.80	0.151	21.92	0.156
5	QPSK	1	24	21.77	0.150	21.63	0.146	21.62	0.145
5	QPSK	12	0	20.69	0.117	20.58	0.114	20.93	0.124
5	QPSK	12	7	20.86	0.122	20.77	0.119	20.79	0.120
5	QPSK	12	13	20.98	0.125	20.58	0.114	20.77	0.119
5	QPSK	25	0	20.92	0.124	20.93	0.124	20.96	0.125
5	16QAM	1	0	21.05	0.127	20.92	0.124	21.05	0.127
5	16QAM	1	12	21.30	0.135	21.20	0.132	21.29	0.135
5	16QAM	1	24	21.16	0.131	20.91	0.123	20.97	0.125
5	16QAM	12	0	19.89	0.097	19.84	0.096	19.91	0.098
5	16QAM	12	7	20.04	0.101	19.98	0.100	19.96	0.099
5	16QAM	12	13	20.05	0.101	19.95	0.099	19.90	0.098
5	16QAM	25	0	19.97	0.099	19.92	0.098	19.92	0.098
5	64QAM	1	0	19.95	0.099	19.89	0.097	19.96	0.099
5	64QAM	1	12	20.17	0.104	19.78	0.095	19.97	0.099
5	64QAM	1	24	19.81	0.096	19.83	0.096	19.93	0.098
5	64QAM	12	0	18.86	0.077	18.85	0.077	18.95	0.079
5	64QAM	12	7	19.07	0.081	19.05	0.080	19.10	0.081
5	64QAM	12	13	19.04	0.080	18.94	0.078	19.00	0.079
5	64QAM	25	0	18.97	0.079	18.94	0.078	18.97	0.079



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	21.21	0.132	21.43	0.139	21.88	0.154
3	QPSK	1	8	21.31	0.135	21.36	0.137	21.84	0.153
3	QPSK	1	14	21.41	0.138	21.42	0.139	21.85	0.153
3	QPSK	8	0	20.25	0.106	20.47	0.111	21.00	0.126
3	QPSK	8	4	20.50	0.112	20.54	0.113	21.01	0.126
3	QPSK	8	7	20.52	0.113	20.44	0.111	20.99	0.126
3	QPSK	15	0	20.46	0.111	20.50	0.112	20.97	0.125
3	16QAM	1	0	20.50	0.112	20.64	0.116	20.76	0.119
3	16QAM	1	8	20.59	0.115	20.63	0.116	20.81	0.121
3	16QAM	1	14	20.59	0.115	20.50	0.112	20.72	0.118
3	16QAM	8	0	19.46	0.088	19.54	0.090	19.85	0.097
3	16QAM	8	4	19.55	0.090	19.56	0.090	19.99	0.100
3	16QAM	8	7	19.56	0.090	19.54	0.090	19.96	0.099
3	16QAM	15	0	19.49	0.089	19.53	0.090	19.95	0.099
3	64QAM	1	0	19.08	0.081	19.21	0.083	19.86	0.097
3	64QAM	1	8	19.16	0.082	19.08	0.081	19.71	0.094
3	64QAM	1	14	19.12	0.082	19.09	0.081	19.64	0.092
3	64QAM	8	0	18.57	0.072	18.61	0.073	18.96	0.079
3	64QAM	8	4	18.63	0.073	18.63	0.073	18.89	0.077
3	64QAM	8	7	18.64	0.073	18.60	0.072	18.93	0.078
3	64QAM	15	0	18.51	0.071	18.56	0.072	19.01	0.080



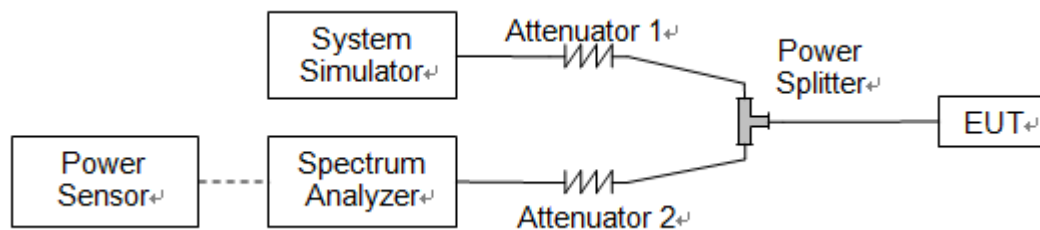
LTE Band 26				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26697		26740		26783	
Frequency (MHz)				814.7		819.0		823.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	20.95	0.124	21.14	0.130	21.17	0.131
1.4	QPSK	1	3	21.37	0.137	21.40	0.138	21.28	0.134
1.4	QPSK	1	5	21.05	0.127	21.10	0.129	21.14	0.130
1.4	QPSK	3	0	21.38	0.137	21.42	0.139	21.34	0.136
1.4	QPSK	3	1	21.40	0.138	21.44	0.139	21.36	0.137
1.4	QPSK	3	3	21.34	0.136	21.39	0.138	21.31	0.135
1.4	QPSK	6	0	20.44	0.111	20.43	0.110	20.13	0.103
1.4	16QAM	1	0	20.35	0.108	20.41	0.110	20.42	0.110
1.4	16QAM	1	3	20.55	0.114	20.53	0.113	20.55	0.114
1.4	16QAM	1	5	20.27	0.106	20.39	0.109	20.36	0.109
1.4	16QAM	3	0	20.43	0.110	20.04	0.101	20.10	0.102
1.4	16QAM	3	1	20.47	0.111	20.11	0.103	20.28	0.107
1.4	16QAM	3	3	20.43	0.110	20.15	0.104	20.25	0.106
1.4	16QAM	6	0	19.49	0.089	19.52	0.090	19.51	0.089
1.4	64QAM	1	0	18.99	0.079	19.03	0.080	19.07	0.081
1.4	64QAM	1	3	19.03	0.080	19.08	0.081	19.09	0.081
1.4	64QAM	1	5	18.98	0.079	19.03	0.080	18.98	0.079
1.4	64QAM	3	0	19.56	0.090	19.53	0.090	19.53	0.090
1.4	64QAM	3	1	19.61	0.091	19.65	0.092	19.59	0.091
1.4	64QAM	3	3	19.55	0.090	19.49	0.089	19.55	0.090
1.4	64QAM	6	0	18.45	0.070	18.40	0.069	18.39	0.069

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	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B18 part90	5	Low	23875	817.5	QPSK	4.4737	5.0165	PASS
B18 part90	5	Low	23875	817.5	16QAM	4.4801	5.0966	PASS
B18 part90	5	Low	23875	817.5	64QAM	4.4840	5.0365	PASS
B18 part90	5	Mid	23895	819.5	QPSK	4.4790	5.0231	PASS
B18 part90	5	Mid	23895	819.5	16QAM	4.4799	4.9981	PASS
B18 part90	5	Mid	23895	819.5	64QAM	4.4853	5.0551	PASS
B18 part90	5	High	23915	821.5	QPSK	4.4762	4.9980	PASS
B18 part90	5	High	23915	821.5	16QAM	4.4694	5.0143	PASS
B18 part90	5	High	23915	821.5	64QAM	4.4888	5.0115	PASS



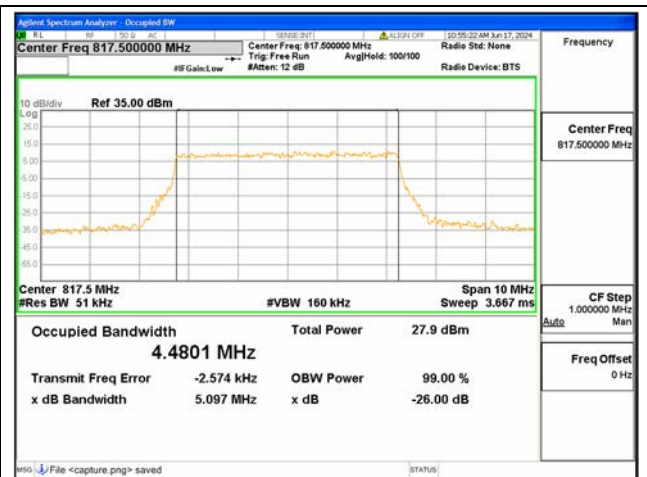
LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B26 Part90	1.4	Low	26697	814.7	QPSK	1.0920	1.2850	PASS
B26 Part90	1.4	Low	26697	814.7	16QAM	1.1002	1.3115	PASS
B26 Part90	1.4	Low	26697	814.7	64QAM	1.0990	1.2873	PASS
B26 Part90	1.4	Mid	26740	819	QPSK	1.0923	1.2708	PASS
B26 Part90	1.4	Mid	26740	819	16QAM	1.0980	1.2867	PASS
B26 Part90	1.4	Mid	26740	819	64QAM	1.1002	1.2775	PASS
B26 Part90	1.4	High	26783	823.3	QPSK	1.0911	1.2753	PASS
B26 Part90	1.4	High	26783	823.3	16QAM	1.0970	1.2809	PASS
B26 Part90	1.4	High	26783	823.3	64QAM	1.1007	1.2898	PASS
B26 Part90	3	Low	26705	815.5	QPSK	2.6862	2.9213	PASS
B26 Part90	3	Low	26705	815.5	16QAM	2.6991	2.9329	PASS
B26 Part90	3	Low	26705	815.5	64QAM	2.7009	2.9121	PASS
B26 Part90	3	Mid	26740	819	QPSK	2.6863	2.9103	PASS
B26 Part90	3	Mid	26740	819	16QAM	2.6948	2.9279	PASS
B26 Part90	3	Mid	26740	819	64QAM	2.6979	2.9257	PASS
B26 Part90	3	High	26775	822.5	QPSK	2.6876	2.9138	PASS
B26 Part90	3	High	26775	822.5	16QAM	2.6920	2.9236	PASS
B26	3	High	26775	822.5	64QAM	2.7003	2.9266	PASS



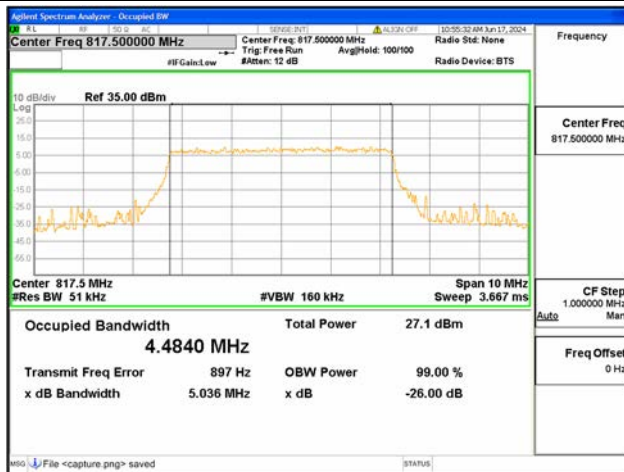
Part90								
B26 Part90	5	Low	26715	816.5	QPSK	4.4714	4.9956	PASS
B26 Part90	5	Low	26715	816.5	16QAM	4.4822	5.0585	PASS
B26 Part90	5	Low	26715	816.5	64QAM	4.4760	5.0179	PASS
B26 Part90	5	Mid	26740	819	QPSK	4.4834	4.9979	PASS
B26 Part90	5	Mid	26740	819	16QAM	4.4708	5.0009	PASS
B26 Part90	5	Mid	26740	819	64QAM	4.4899	5.0510	PASS
B26 Part90	5	High	26765	821.5	QPSK	4.4800	5.0177	PASS
B26 Part90	5	High	26765	821.5	16QAM	4.4822	5.0733	PASS
B26 Part90	5	High	26765	821.5	64QAM	4.4864	5.0411	PASS
B26 Part90	10	Low	26740	819	QPSK	8.9384	9.8172	PASS
B26 Part90	10	Low	26740	819	16QAM	8.9366	9.7126	PASS
B26 Part90	10	Low	26740	819	64QAM	8.9501	9.7606	PASS
B26 Part90	10	Mid	26740	819	QPSK	8.9466	9.7066	PASS
B26 Part90	10	Mid	26740	819	16QAM	8.9232	9.7163	PASS
B26 Part90	10	Mid	26740	819	64QAM	8.9425	9.7910	PASS
B26 Part90	10	High	26740	819	QPSK	8.9497	9.8038	PASS
B26 Part90	10	High	26740	819	16QAM	8.9245	9.7284	PASS
B26 Part90	10	High	26740	819	64QAM	8.9381	9.7578	PASS



B18 part90 / 5MHz / QPSK/ Low CH



B18 part90 / 5MHz / 16QAM/ Low CH



B18 part90 / 5MHz / 64QAM/ Low CH



B18 part90 / 5MHz / QPSK/ Mid CH



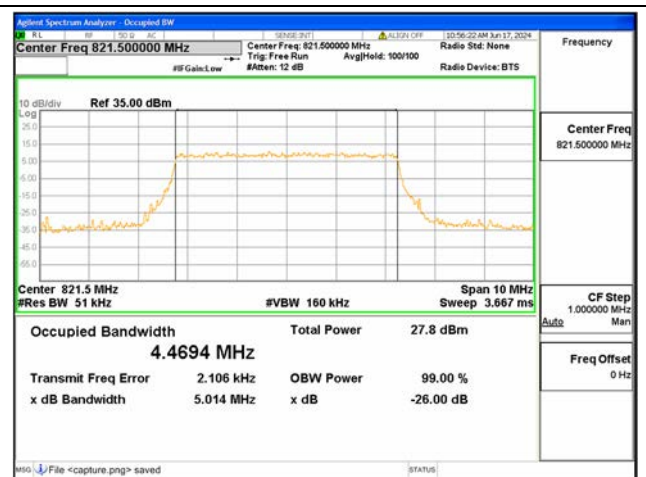
B18 part90 / 5MHz / 16QAM/ Mid CH



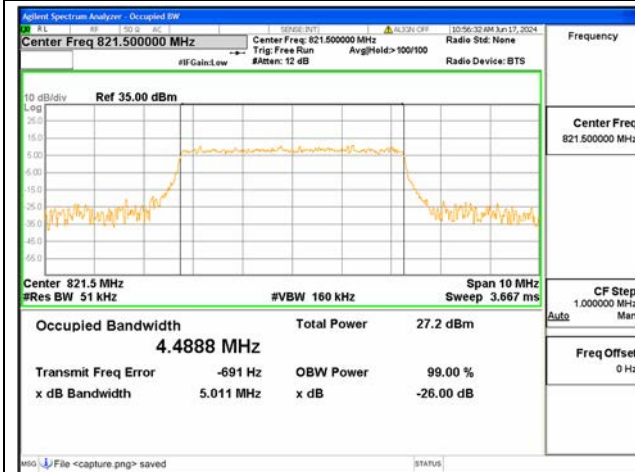
B18 part90 / 5MHz / 64QAM/ Mid CH



B18 part90 / 5MHz / QPSK/ High CH



B18 part90 / 5MHz / 16QAM/ High CH



B18 part90 / 5MHz / 64QAM/ High CH



B26 Part90 / 1.4MHz / QPSK/ Low CH



B26 Part90 / 1.4MHz / 16QAM/ Low CH



B26 Part90 / 1.4MHz / 64QAM/ Low CH



B26 Part90 / 1.4MHz / QPSK/ Mid CH



B26 Part90 / 1.4MHz / 16QAM/ Mid CH



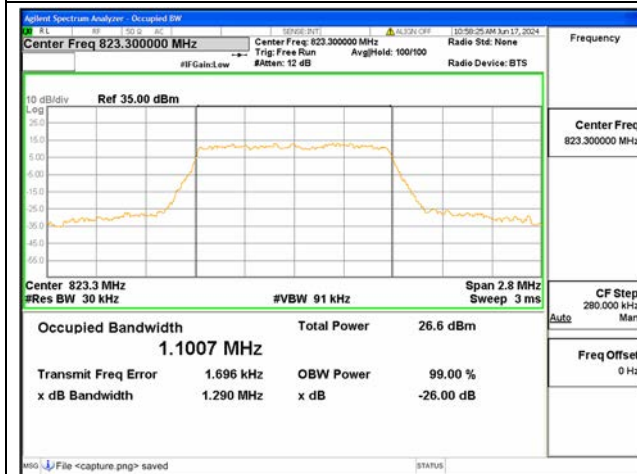
B26 Part90 / 1.4MHz / 64QAM/ Mid CH



B26 Part90 / 1.4MHz / QPSK/ High CH



B26 Part90 / 1.4MHz / 16QAM/ High CH



B26 Part90 / 1.4MHz / 64QAM/ High CH



B26 Part90 / 3MHz / QPSK/ Low CH



B26 Part90 / 3MHz / 16QAM/ Low CH



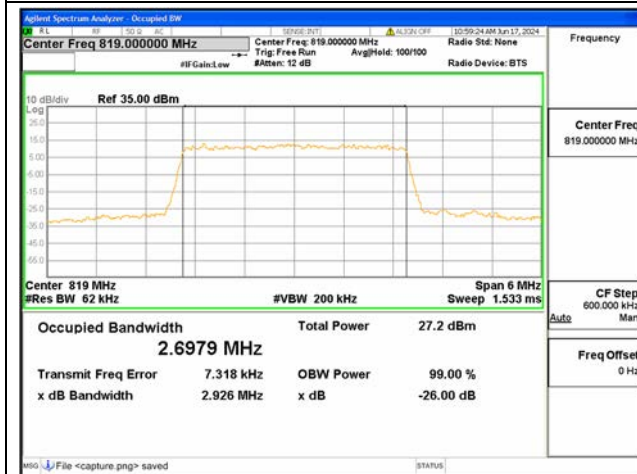
B26 Part90 / 3MHz / 64QAM/ Low CH



B26 Part90 / 3MHz / QPSK/ Mid CH



B26 Part90 / 3MHz / 16QAM/ Mid CH



B26 Part90 / 3MHz / 64QAM/ Mid CH



B26 Part90 / 3MHz / QPSK/ High CH



B26 Part90 / 3MHz / 16QAM/ High CH



B26 Part90 / 3MHz / 64QAM/ High CH



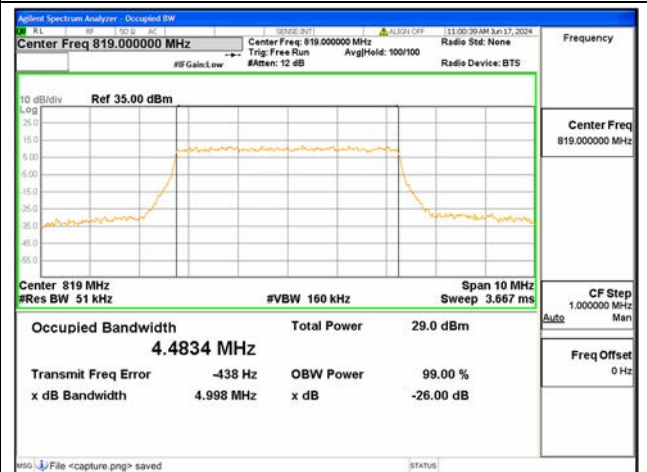
B26 Part90 / 5MHz / QPSK/ Low CH



B26 Part90 / 5MHz / 16QAM/ Low CH



B26 Part90 / 5MHz / 64QAM/ Low CH



B26 Part90 / 5MHz / QPSK/ Mid CH



B26 Part90 / 5MHz / 16QAM/ Mid CH



B26 Part90 / 5MHz / 64QAM/ Mid CH



B26 Part90 / 5MHz / QPSK/ High CH



B26 Part90 / 5MHz / 16QAM/ High CH



B26 Part90 / 5MHz / 64QAM/ High CH



B26 Part90 / 10MHz / QPSK/ Low CH



B26 Part90 / 10MHz / 16QAM/ Low CH



B26 Part90 / 10MHz / 64QAM/ Low CH



B26 Part90 / 10MHz / QPSK/ Mid CH



B26 Part90 / 10MHz / 16QAM/ Mid CH



B26 Part90 / 10MHz / 64QAM/ Mid CH



B26 Part90 / 10MHz / QPSK/ High CH



B26 Part90 / 10MHz / 16QAM/ High CH



B26 Part90 / 10MHz / 64QAM/ High CH

2.3. Frequency Stability

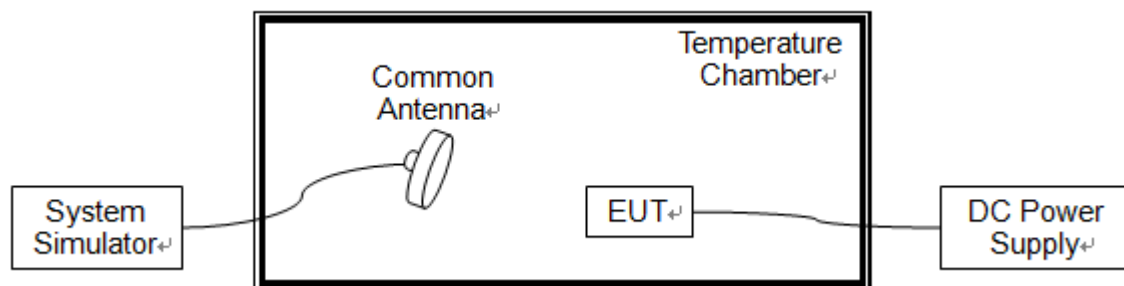
2.3.1. Requirement

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°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 0°C to 40°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, 4.35V and 3.00V, which are specified by the applicant; the normal temperature here used is 20°C.

LTE Band 18, 64QAM, Channel 23895, Frequency 819.5MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	22	0.027	PASS
Normal		0	7	0.009	
Normal		+10	14	0.017	
Normal		+20	18	0.022	
Normal		+30	20	0.024	
Normal		+40	19	0.023	
High	4.35	+20	20	0.024	
BATT.ENDPOINT	3.00	+20	15	0.018	

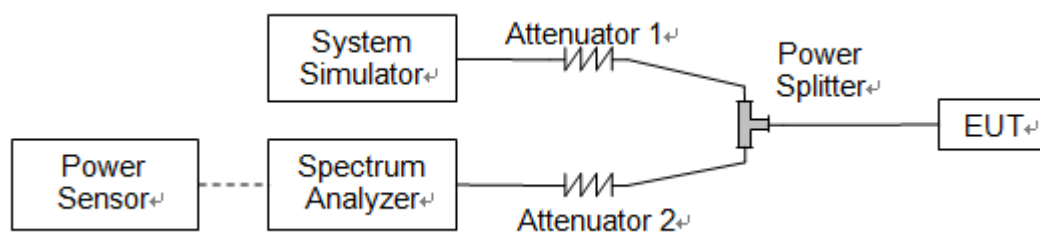
LTE Band 26, 64QAM, Channel 26740, Frequency 819MHz					
Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	2	0.002	PASS
Normal		0	20	0.024	
Normal		+10	-19	-0.023	
Normal		+20	10	0.012	
Normal		+30	14	0.017	
Normal		+40	11	0.013	
High	4.35	+20	16	0.020	
BATT.ENDPOINT	3.00	+20	13	0.016	

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



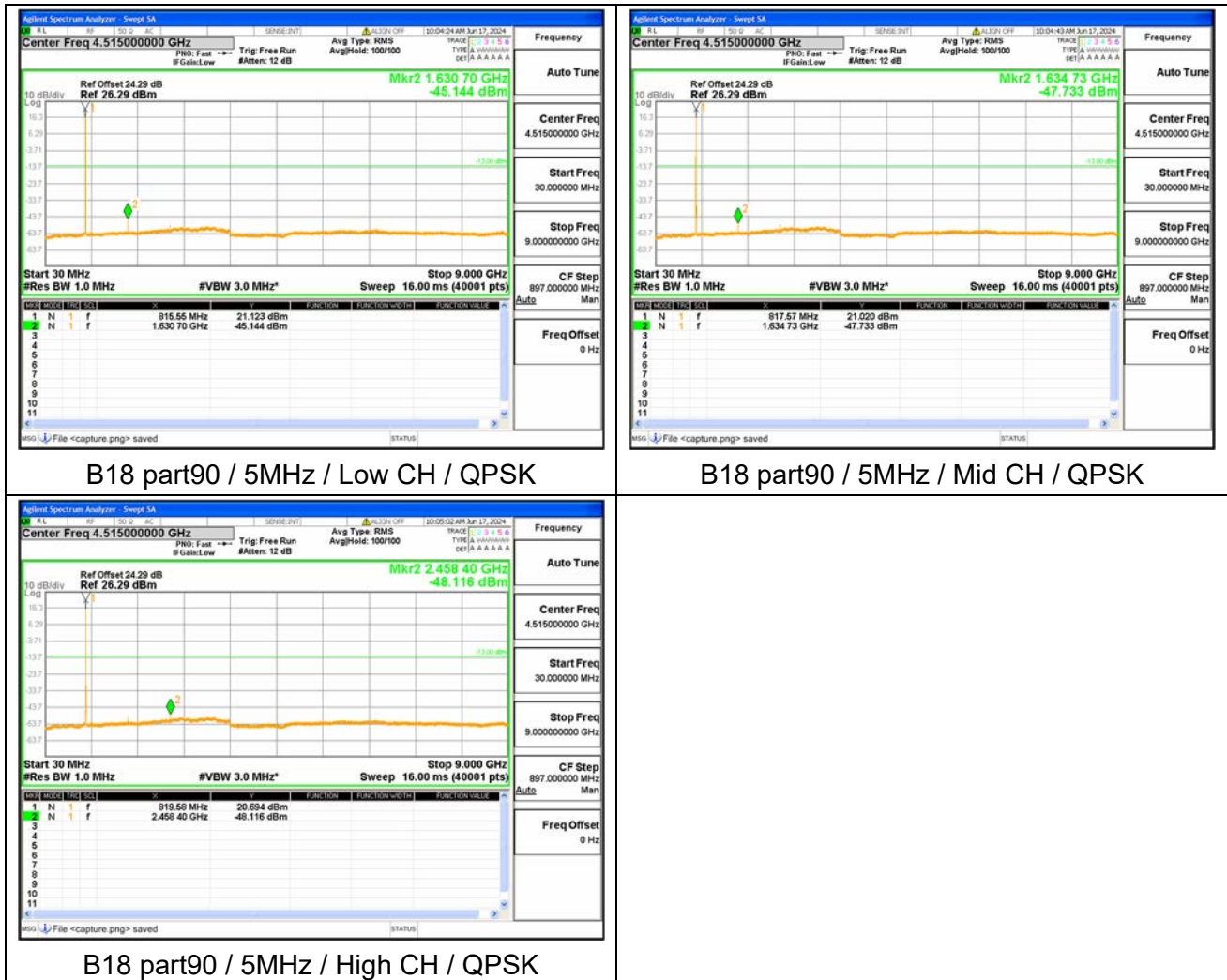
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

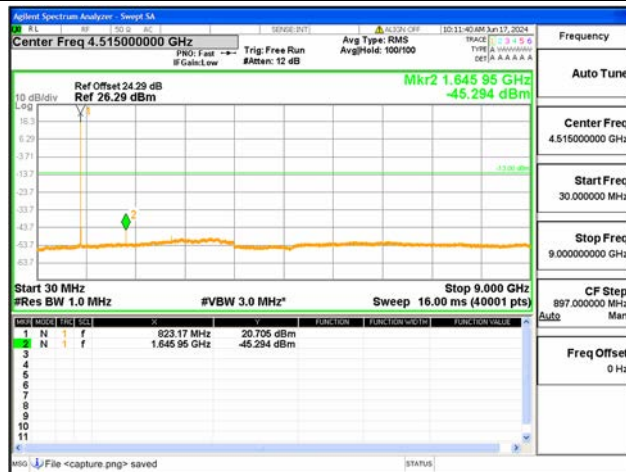




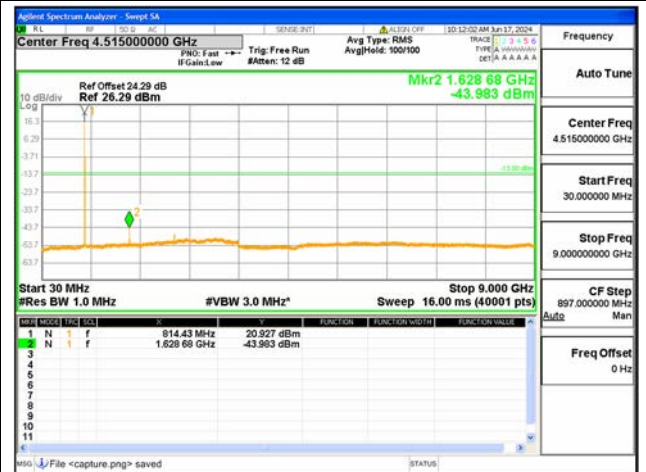
B26 Part90 / 1.4MHz / Low CH / QPSK



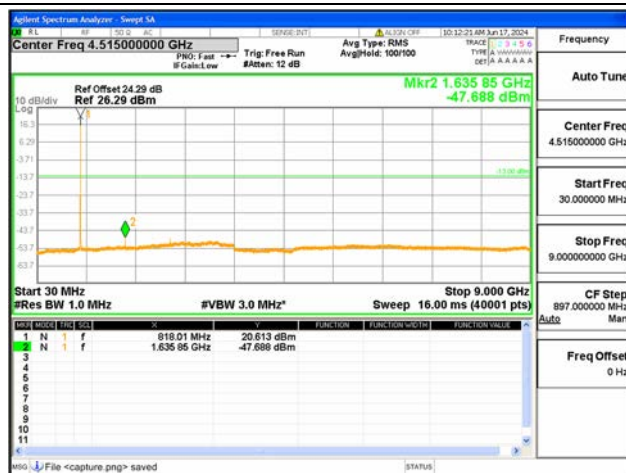
B26 Part90 / 1.4MHz / Mid CH / QPSK



B26 Part90 / 1.4MHz / High CH / QPSK



B26 Part90 / 3MHz / Low CH / QPSK



B26 Part90 / 3MHz / Mid CH / QPSK



B26 Part90 / 3MHz / High CH / QPSK



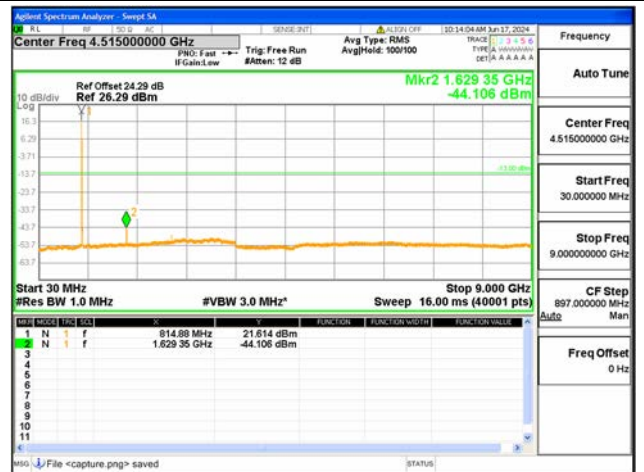
B26 Part90 / 5MHz / Low CH / QPSK



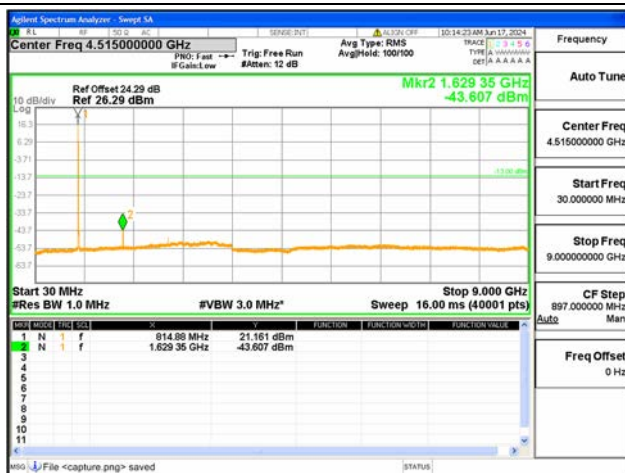
B26 Part90 / 5MHz / Mid CH / QPSK



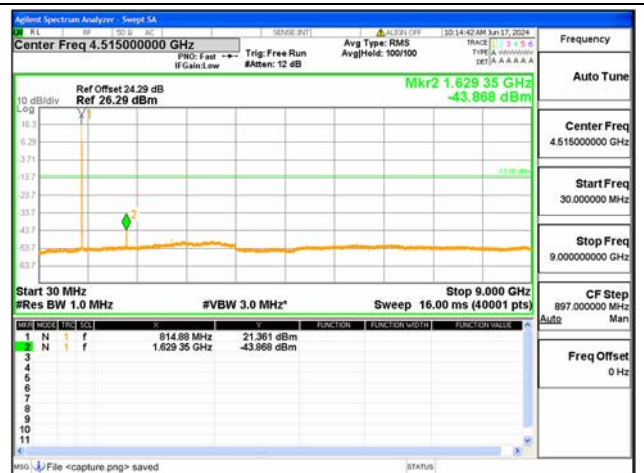
B26 Part90 / 5MHz / High CH / QPSK



B26 Part90 / 10MHz / Low CH / QPSK



B26 Part90 / 10MHz / Mid CH / QPSK



B26 Part90 / 10MHz / High CH / QPSK

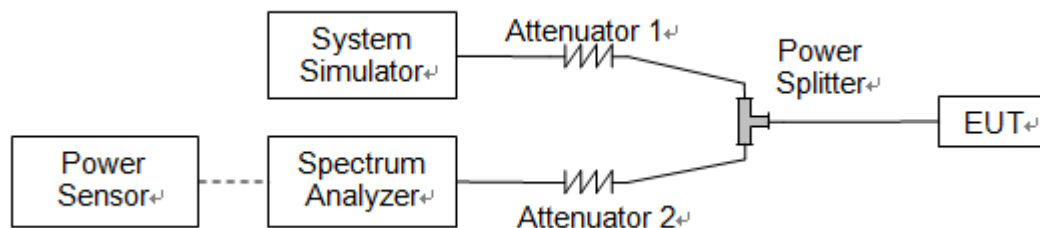
2.5. Band Edge

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.

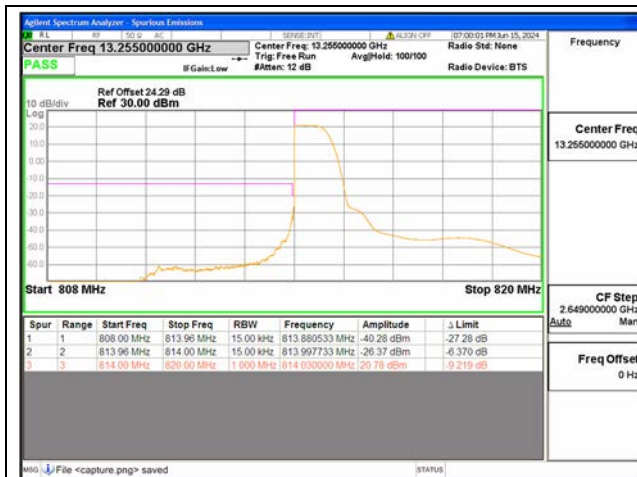
2.5.3. Test procedure

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



2.5.4. Test Result

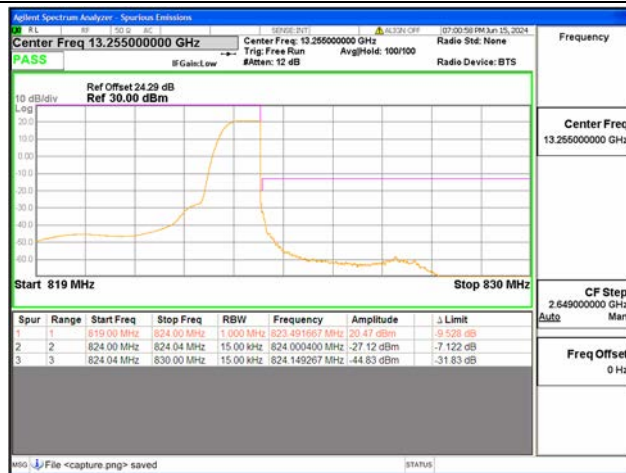




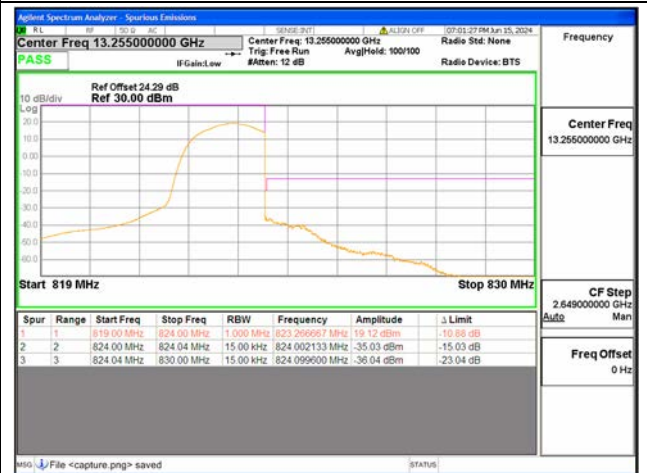
B26 Part90 / 1.4MHz / Low CH / QPSK / 1 RB



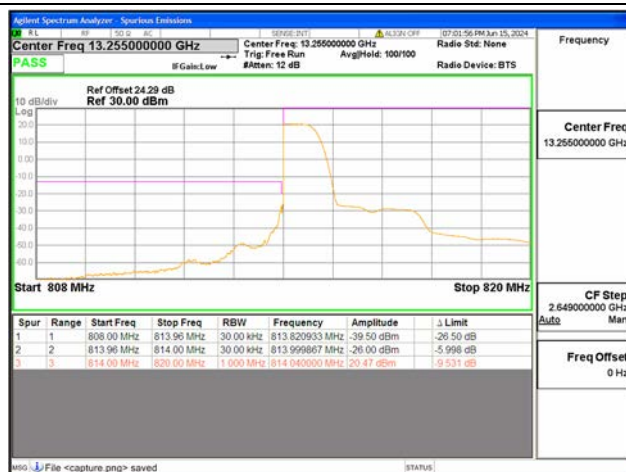
B26 Part90 / 1.4MHz / Low CH / QPSK / FULL RB



B26 Part90 / 1.4MHz / High CH / QPSK / 1 RB



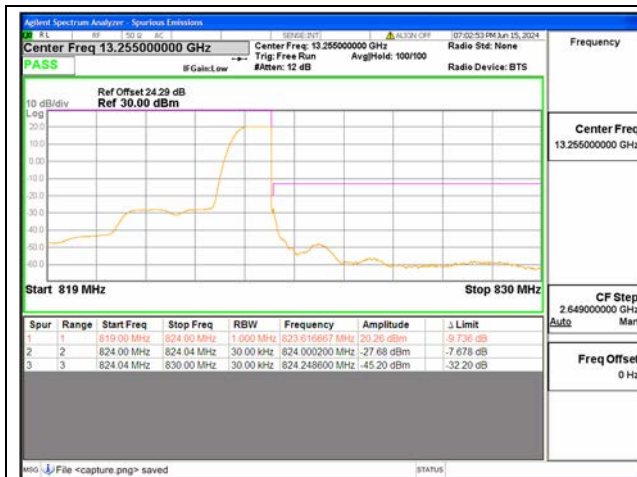
B26 Part90 / 1.4MHz / High CH / QPSK / FULL RB



B26 Part90 / 3MHz / Low CH / QPSK / 1 RB



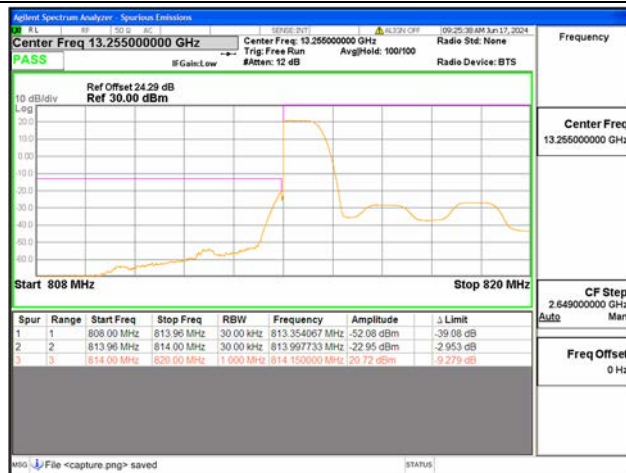
B26 Part90 / 3MHz / Low CH / QPSK / FULL RB



B26 Part90 / 3MHz / High CH / QPSK / 1 RB



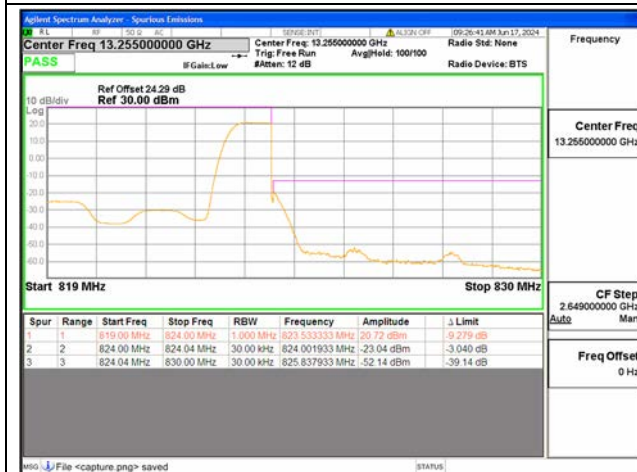
B26 Part90 / 3MHz / High CH / QPSK / FULL RB



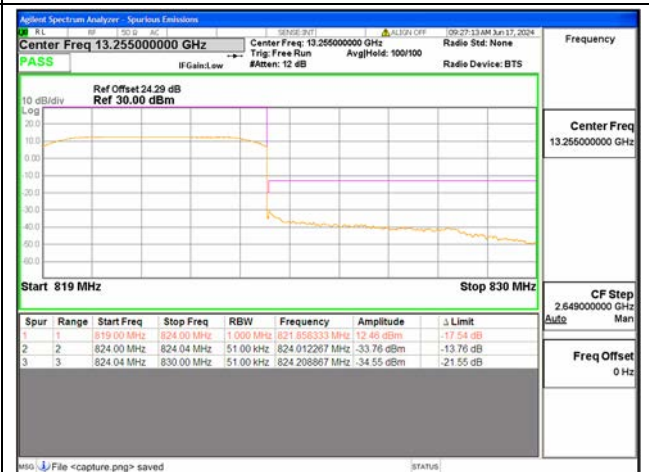
B26 Part90 / 5MHz / Low CH / QPSK / 1 RB



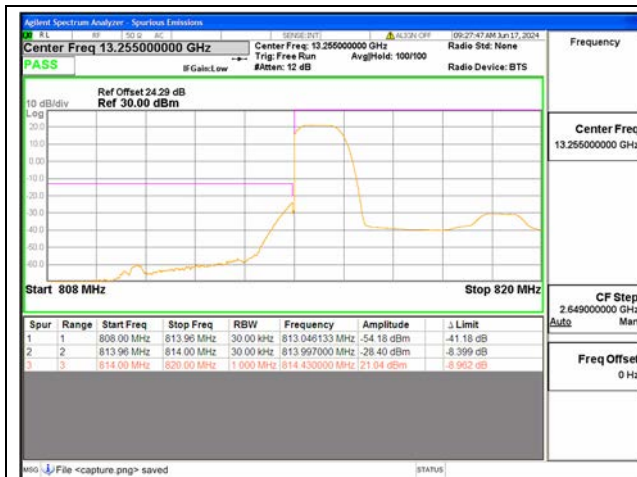
B26 Part90 / 5MHz / Low CH / QPSK / FULL RB



B26 Part90 / 5MHz / High CH / QPSK / 1 RB



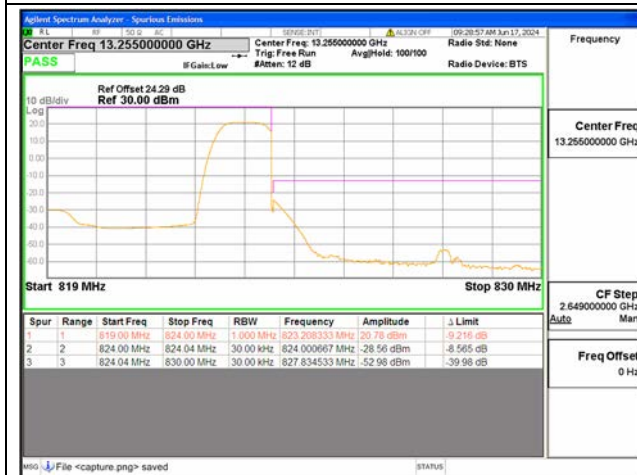
B26 Part90 / 5MHz / High CH / QPSK / FULL RB



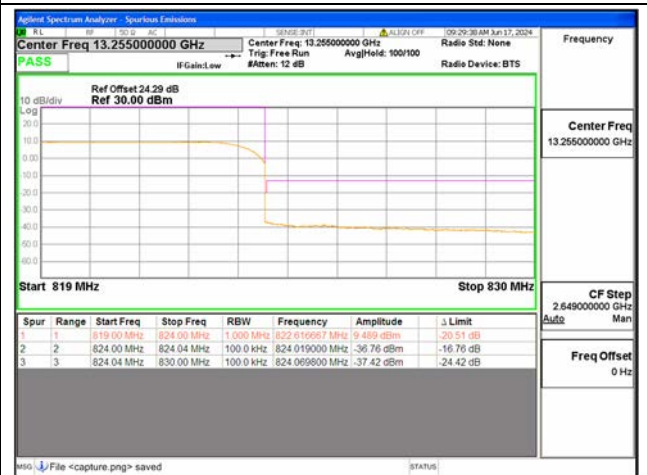
B26 Part90 / 10MHz / Low CH / QPSK / 1 RB



B26 Part90 / 10MHz / Low CH / QPSK / FULL RB



B26 Part90 / 10MHz / High CH / QPSK / 1 RB



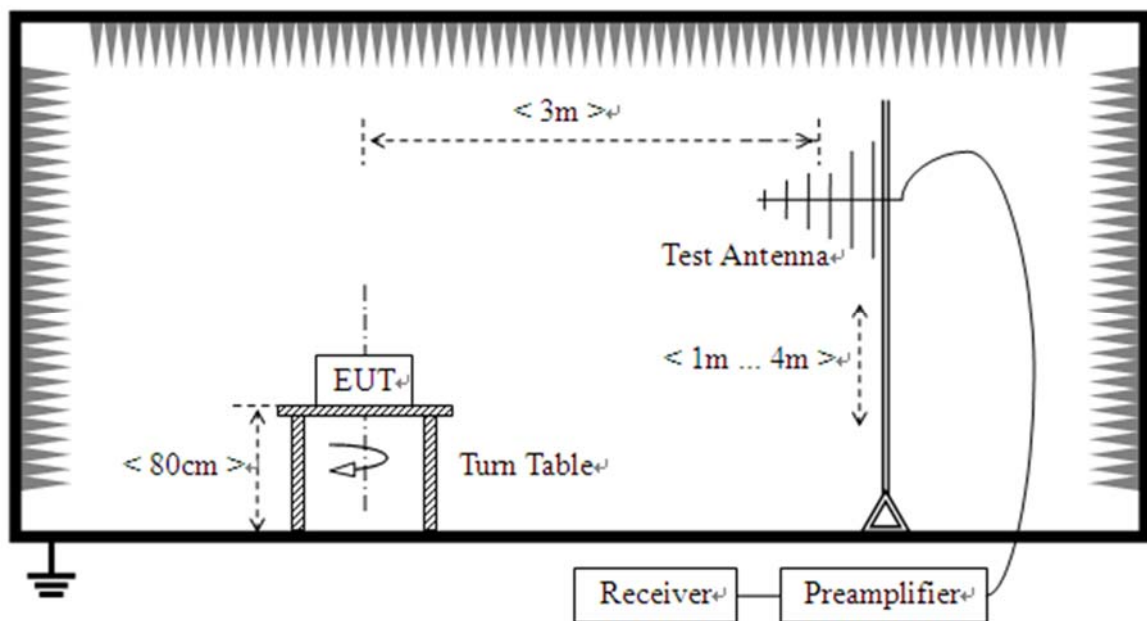
B26 Part90 / 10MHz / High CH / QPSK / FULL RB

2.6. Radiated Spurious Emissions

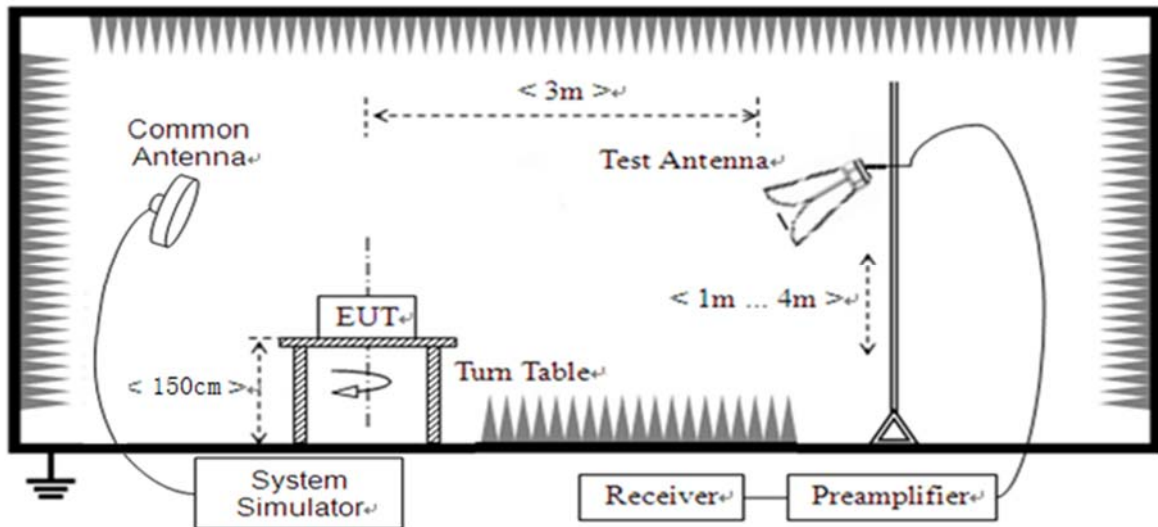
2.6.1. Requirement

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 from 30MHz to 1GHz)



(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 1 GHz the resolution bandwidth is set to 100 kHz 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.

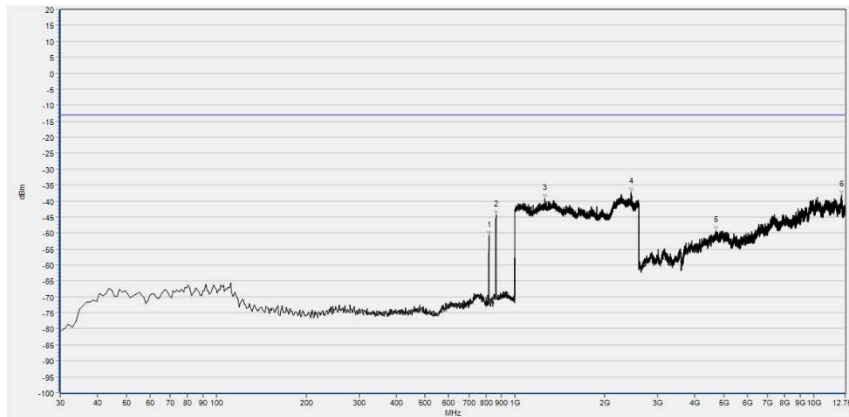
Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

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.

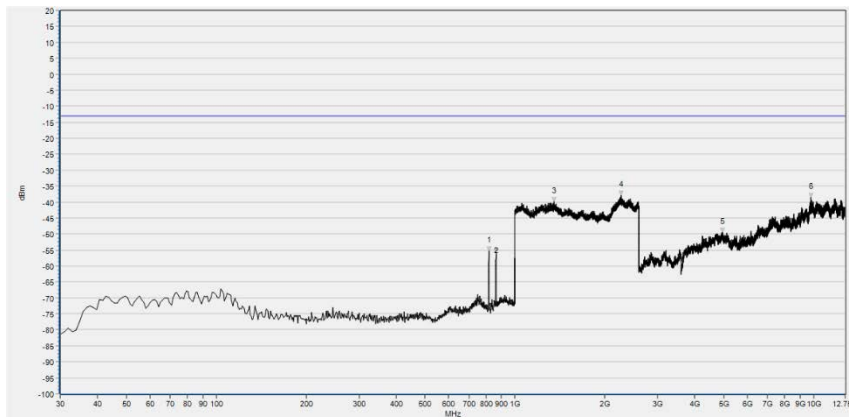
Note 4: N/A means the frequency is the basic frequency or the base station frequency, they are no need to verdict.

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 18, 5MHz BW, Low Channel, QPSK

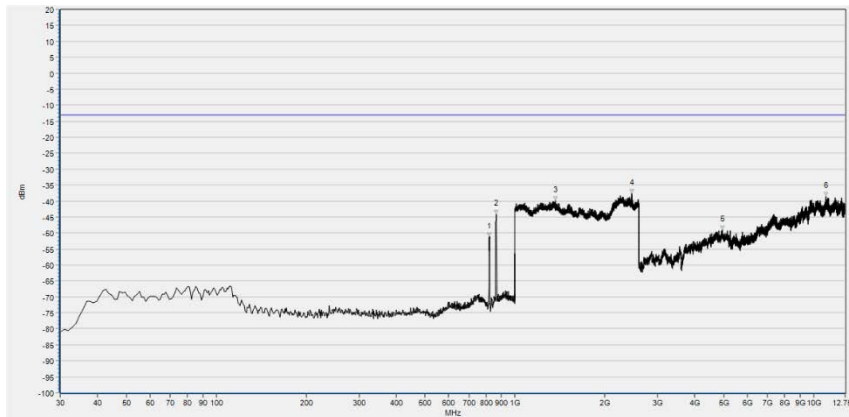


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	817.640	-50.82	-13.00	Horizontal	N/A
2	864.200	-44.44	-13.00	Horizontal	N/A
3	1254.822	-39.28	-13.00	Horizontal	PASS
4	2452.101	-37.26	-13.00	Horizontal	PASS
5	4713.430	-49.35	-13.00	Horizontal	PASS
6	12410.375	-38.14	-13.00	Horizontal	PASS

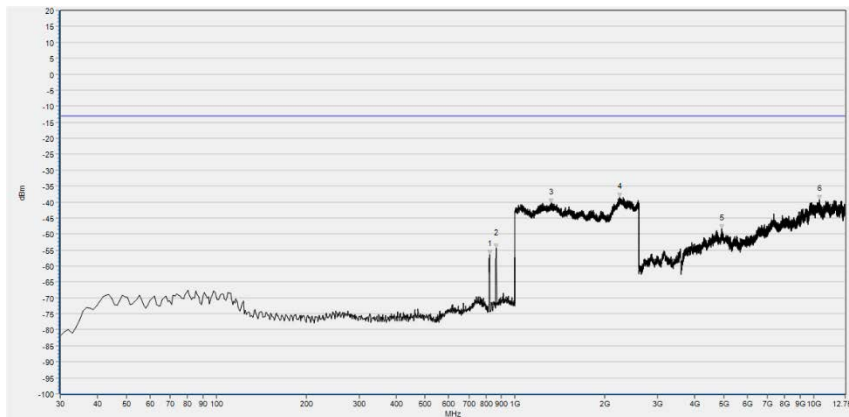


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	817.640	-55.20	-13.00	Vertical	N/A
2	864.200	-55.88	-13.00	Vertical	N/A
3	1353.421	-39.96	-13.00	Vertical	PASS
4	2268.988	-37.77	-13.00	Vertical	PASS
5	4936.770	-49.57	-13.00	Vertical	PASS
6	9813.348	-38.54	-13.00	Vertical	PASS

LTE Band 18, 5MHz BW, Mid Channel, QPSK

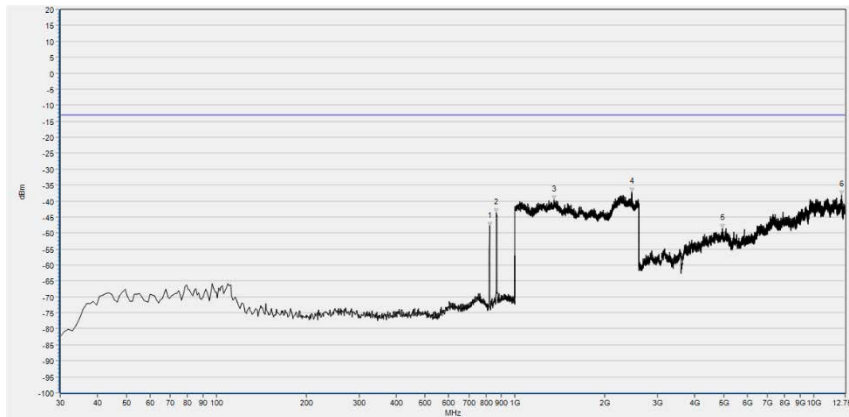


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	817.640	-51.19	-13.00	Horizontal	N/A
2	864.200	-44.18	-13.00	Horizontal	N/A
3	1363.025	-39.84	-13.00	Horizontal	PASS
4	2458.503	-37.67	-13.00	Horizontal	PASS
5	4936.770	-49.06	-13.00	Horizontal	PASS
6	10989.116	-38.53	-13.00	Horizontal	PASS

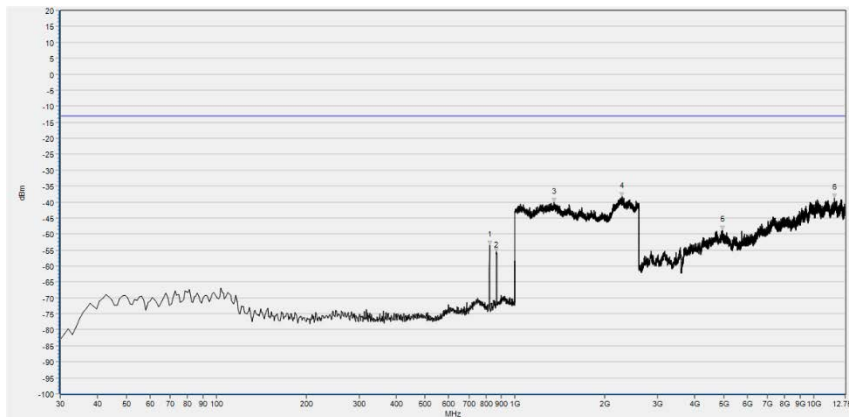


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	821.520	-56.47	-13.00	Vertical	N/A
2	865.170	-54.35	-13.00	Vertical	N/A
3	1322.689	-40.24	-13.00	Vertical	PASS
4	2238.255	-38.60	-13.00	Vertical	PASS
5	4916.467	-48.47	-13.00	Vertical	PASS
6	10442.762	-39.29	-13.00	Vertical	PASS

LTE Band 18, 5MHz BW, High Channel, QPSK

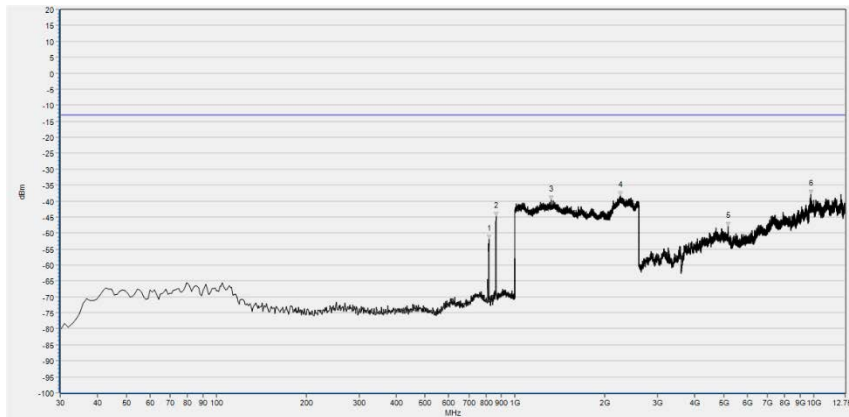


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	823.460	-47.96	-13.00	Horizontal	N/A
2	867.110	-43.63	-13.00	Horizontal	N/A
3	1352.781	-39.69	-13.00	Horizontal	PASS
4	2460.424	-37.15	-13.00	Horizontal	PASS
5	4944.153	-48.64	-13.00	Horizontal	PASS
6	12421.449	-38.18	-13.00	Horizontal	PASS

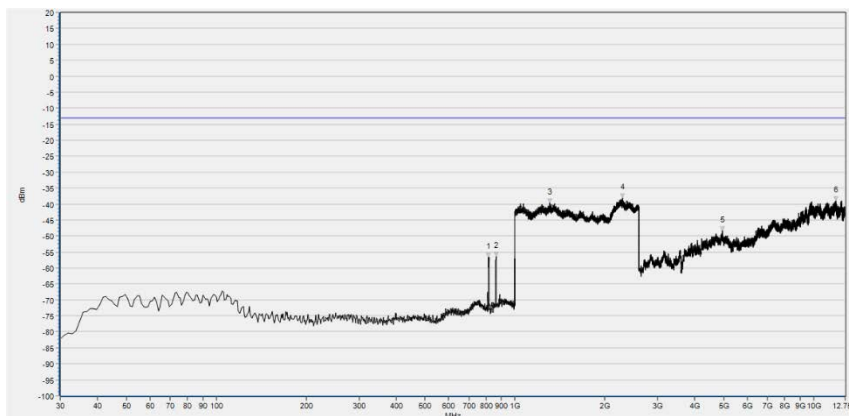


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	823.460	-53.59	-13.00	Vertical	N/A
2	864.200	-55.47	-13.00	Vertical	N/A
3	1351.501	-40.19	-13.00	Vertical	PASS
4	2277.951	-38.26	-13.00	Vertical	PASS
5	4936.770	-48.75	-13.00	Vertical	PASS
6	11766.194	-38.85	-13.00	Vertical	PASS

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

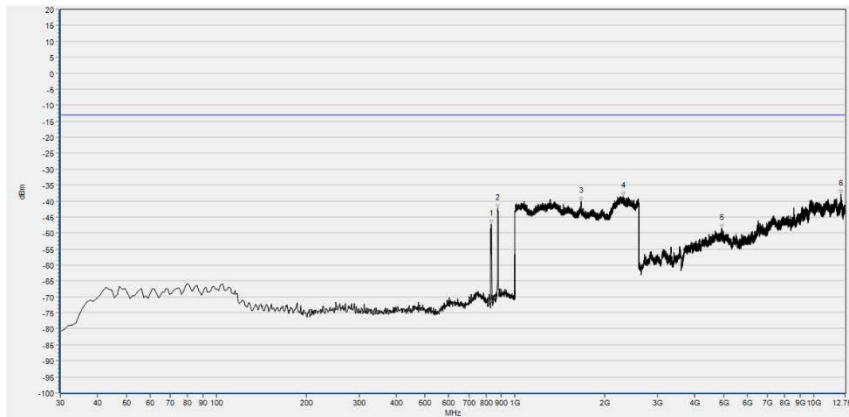


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	817.640	-51.98	-13.00	Horizontal	N/A
2	863.230	-44.79	-13.00	Horizontal	N/A
3	1322.689	-39.66	-13.00	Horizontal	PASS
4	2258.103	-38.43	-13.00	Horizontal	PASS
5	5167.494	-47.84	-13.00	Horizontal	PASS
6	9809.656	-37.93	-13.00	Horizontal	PASS

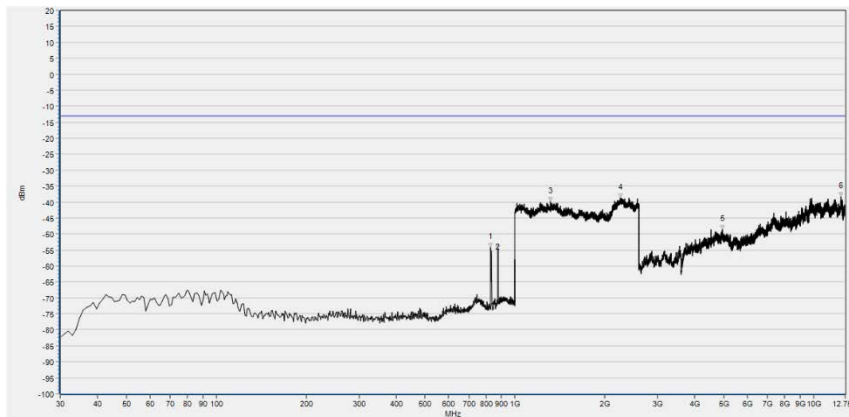


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	814.730	-56.72	-13.00	Vertical	N/A
2	863.230	-56.45	-13.00	Vertical	N/A
3	1306.683	-39.61	-13.00	Vertical	PASS
4	2293.958	-38.04	-13.00	Vertical	PASS
5	4944.153	-48.29	-13.00	Vertical	PASS
6	11852.946	-38.90	-13.00	Vertical	PASS

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

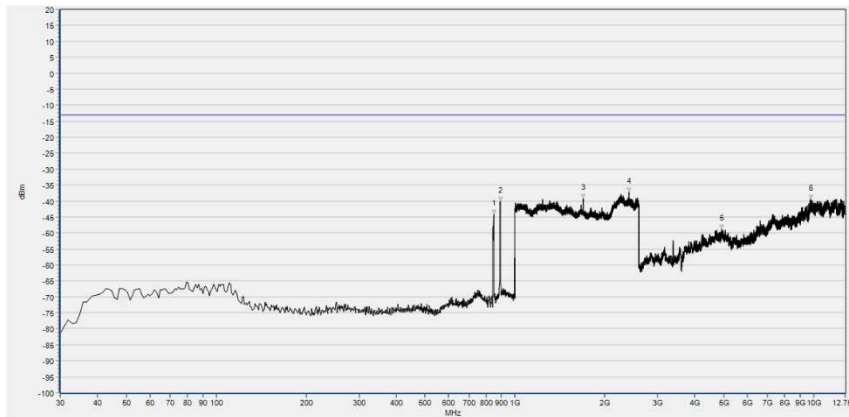


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	833.160	-47.27	-13.00	Horizontal	N/A
2	875.840	-42.29	-13.00	Horizontal	N/A
3	1662.665	-40.18	-13.00	Horizontal	PASS
4	2307.403	-38.46	-13.00	Horizontal	PASS
5	4931.233	-48.57	-13.00	Horizontal	PASS
6	12362.384	-37.77	-13.00	Horizontal	PASS

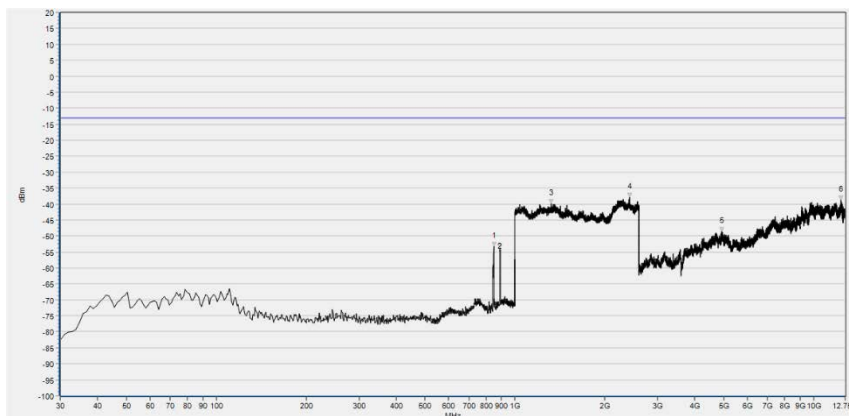


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	829.280	-54.30	-13.00	Vertical	N/A
2	876.810	-54.90	-13.00	Vertical	N/A
3	1313.085	-39.93	-13.00	Vertical	PASS
4	2256.823	-38.66	-13.00	Vertical	PASS
5	4940.462	-48.65	-13.00	Vertical	PASS
6	12349.464	-38.25	-13.00	Vertical	PASS

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



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	848.680	-44.24	-13.00	Horizontal	N/A
2	892.330	-40.01	-13.00	Horizontal	N/A
3	1692.757	-39.15	-13.00	Horizontal	PASS
4	2404.722	-37.24	-13.00	Horizontal	PASS
5	4929.387	-48.94	-13.00	Horizontal	PASS
6	9811.502	-39.50	-13.00	Horizontal	PASS



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	848.680	-53.26	-13.00	Vertical	N/A
2	891.360	-54.05	-13.00	Vertical	N/A
3	1321.409	-39.94	-13.00	Vertical	PASS
4	2417.527	-37.95	-13.00	Vertical	PASS
5	4931.233	-48.67	-13.00	Vertical	PASS
6	12340.235	-38.81	-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.



REPORT No.: SZ24040308W03

4. Test Equipment Utilized

4.1 Conducted Test Equipment

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY51511149	N9020A	Agilent	2023.06.21	2024.06.20
				2024.06.19	2025.06.18
Communication Test Station	6200995016	MT8820C	Anritsu	2023.09.19	2024.09.18
Temperature Chamber	S022177101 00089002	KMT-36LF 1A0	KOMEG	2023.09.19	2024.09.18

4.2 List of Software Used

Description	Manufacturer	Software Version
MOE-2023E Test System	MORLAB	V7.99
MORLAB EMCR	MORLAB	V1.2

**4.3 Radiated Test Equipment**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
System Simulator	152038	CMW500	R&S	2023.10.17	2024.10.16
Receiver	MY54130016	N9038A	Agilent	2024.05.30	2025.05.29
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2023.07.01	2024.06.30
				2024.06.22	2025.06.21
Test Antenna - Horn	9120D-963	BBHA 9120D	Schwarzbeck	2023.07.01	2024.06.30
				2024.06.22	2025.06.21
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	N/A	N/A
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KK F-2	Qualwave	N/A	N/A
Preamplifier (10MHz-6GHz)	46732	S10M100L380 2	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (2GHz-18GHz)	61171/61172	S020180L320 3	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-4 0C-S	Decentest	2024.05.30	2025.05.29
Notch Filter	N/A	WRCGV -LTE 18	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV -LTE 26	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.05.10	2025.05.09

_____ END OF REPORT _____