REPORT No.: SZ25070305W06

TEST REPORT

APPLICANT	:	Fibocom Wireless Inc.
PRODUCT NAME	:	SC126-NA1
MODEL NAME	:	SC126-NA1
BRAND NAME	:	Fibocom
FCC ID	:	ZMOSC126NA1
STANDARD(S)	:	47 CFR Part 2 47 CFR Part 90, Subpart S
RECEIPT DATE	:	2025-07-24
TEST DATE	:	2025-07-31 to 2025-08-22
ISSUE DATE	:	2025-09-15

Edited by: Peng Mi

Peng Mi (Rapporteur)

Approved by: Shen Junsheng

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MORLAB

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DIRECTORY

Change History		
Version	Date	Reason for change
1.0	2025-09-15	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:	SC126-NA1	
Sample No.:	2#, 6#	
Hardware Version:	V1.2	
Software Version:	SC126-T6.020.100	
Modulation Type:	QPSK, 16QAM	
Operation Band:	Band 26	
Frequency Range:	LTE Band 26	Tx: 814MHz–824MHz
		Rx: 859MHz–869MHz
Channel Bandwidth	LTE Band 26	1.4MHz, 3MHz, 5MHz, 10MHz
Antenna Type:	External rubber sleeve Antenna	
Antenna Gain:	LTE Band 26	1.66dBi

Note 1: The EUT description presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information. 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 26	Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
10	0.200	0.164	8M95G7D	8M92W7D
5	0.193	0.174	4M48G7D	4M48W7D
3	0.217	0.173	2M70G7D	2M71W7D
1.4	0.208	0.192	1M10G7D	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	Remark
2.1046, 90.635(b)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Aug. 13, 2025	Zheng Jianhua Liu Huiyan	$PASS_{Note3}$	/
2.1049, 90.209	Occupied Bandwidth	Aug. 18, 2025	Liu Huiyan	PASS	/
2.1055, 90.213	Frequency Stability	Aug. 14, 2025	Liu Huiyan	PASS	/
2.1051, 90.691	Conducted Spurious Emissions	Aug. 20, 2025	Liu Huiyan	PASS	/
2.1051, 90.691	Band Edge	Aug. 18, 2025	Liu Huiyan	PASS	/
2.1053, 90.691	Radiated Spurious Emissions	Jul. 31, 2025 to Aug. 01, 2025	Wang Deyong	PASS	/

Note 1: The tests were performed according to the method of measurements prescribed in KDB 971168 D01 v03 and ANSI/TIA-603-E-2016.

Note 2: Any additions, deviation, or exclusions from the method shall be noted in the “Remark”.

Note 3: The antenna gain presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information.

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

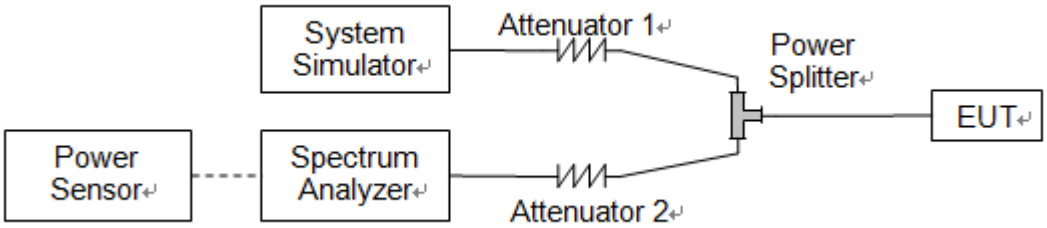
2.1. Transmitter Conducted Output Power and E.R.P./E.I.R.P.

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 (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)
ERP (dBm) = EIPR (dBm) - 2.15

2.1.4. Result

Conducted Output Power

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	/	23.11	/
10	QPSK	1	25	/	23.25	/
10	QPSK	1	49	/	23.49	/
10	QPSK	25	0	/	22.70	/
10	QPSK	25	12	/	22.65	/
10	QPSK	25	25	/	22.73	/
10	QPSK	50	0	/	22.71	/
10	16QAM	1	0	/	22.59	/
10	16QAM	1	25	/	22.52	/
10	16QAM	1	49	/	22.65	/
10	16QAM	25	0	/	21.60	/
10	16QAM	25	12	/	22.02	/
10	16QAM	25	25	/	22.00	/
10	16QAM	50	0	/	21.96	/

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	23.03	23.34	23.10
5	QPSK	1	12	23.22	23.31	22.94
5	QPSK	1	24	23.15	23.00	23.02
5	QPSK	12	0	22.26	22.57	22.85
5	QPSK	12	7	22.45	21.86	22.32
5	QPSK	12	13	22.61	22.49	22.89
5	QPSK	25	0	22.58	22.65	22.71
5	16QAM	1	0	22.67	22.89	22.76
5	16QAM	1	12	22.57	22.74	22.86
5	16QAM	1	24	22.09	22.79	22.32
5	16QAM	12	0	21.10	20.45	21.99
5	16QAM	12	7	20.93	21.92	22.02
5	16QAM	12	13	21.37	22.06	22.02
5	16QAM	25	0	22.12	21.93	22.08

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	23.12	23.11	22.83
3	QPSK	1	8	23.30	22.46	23.85
3	QPSK	1	14	23.43	23.18	23.00
3	QPSK	8	0	22.92	22.76	21.90
3	QPSK	8	4	22.56	22.80	22.59
3	QPSK	8	7	22.75	22.37	22.79
3	QPSK	15	0	22.65	22.73	22.45
3	16QAM	1	0	22.78	22.86	22.81
3	16QAM	1	8	22.55	22.11	22.44
3	16QAM	1	14	22.65	21.59	22.20
3	16QAM	8	0	21.61	21.93	22.00
3	16QAM	8	4	21.57	22.00	21.74
3	16QAM	8	7	21.42	21.89	22.03
3	16QAM	15	0	20.79	22.03	22.00

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	22.68	23.40	23.30
1.4	QPSK	1	3	23.14	23.68	23.64
1.4	QPSK	1	5	23.10	23.39	23.40
1.4	QPSK	3	0	23.10	23.36	23.20
1.4	QPSK	3	1	22.77	23.13	23.09
1.4	QPSK	3	3	22.92	23.13	23.25
1.4	QPSK	6	0	22.72	22.45	22.80
1.4	16QAM	1	0	22.82	22.37	22.68
1.4	16QAM	1	3	21.84	22.97	22.41
1.4	16QAM	1	5	22.38	22.32	22.81
1.4	16QAM	3	0	22.84	23.33	23.24
1.4	16QAM	3	1	22.96	22.96	23.02
1.4	16QAM	3	3	22.91	22.25	23.08
1.4	16QAM	6	0	20.27	21.93	21.66

Effective Radiated Power and Effective Isotropic Radiated Power

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	/	22.62	0.183	/
10	QPSK	1	25	/	22.76	0.189	/
10	QPSK	1	49	/	23.00	0.200	/
10	QPSK	25	0	/	22.21	0.166	/
10	QPSK	25	12	/	22.16	0.164	/
10	QPSK	25	25	/	22.24	0.167	/
10	QPSK	50	0	/	22.22	0.167	/
10	16QAM	1	0	/	22.10	0.162	/
10	16QAM	1	25	/	22.03	0.160	/
10	16QAM	1	49	/	22.16	0.164	/
10	16QAM	25	0	/	21.11	0.129	/
10	16QAM	25	12	/	21.53	0.142	/
10	16QAM	25	25	/	21.51	0.142	/
10	16QAM	50	0	/	21.47	0.140	/

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	22.54	0.179	22.85	0.193	22.61	0.182
5	QPSK	1	12	22.73	0.187	22.82	0.191	22.45	0.176
5	QPSK	1	24	22.66	0.185	22.51	0.178	22.53	0.179
5	QPSK	12	0	21.77	0.150	22.08	0.161	22.36	0.172
5	QPSK	12	7	21.96	0.157	21.37	0.137	21.83	0.152
5	QPSK	12	13	22.12	0.163	22.00	0.158	22.40	0.174
5	QPSK	25	0	22.09	0.162	22.16	0.164	22.22	0.167
5	16QAM	1	0	22.18	0.165	22.40	0.174	22.27	0.169
5	16QAM	1	12	22.08	0.161	22.25	0.168	22.37	0.173
5	16QAM	1	24	21.60	0.145	22.30	0.170	21.83	0.152
5	16QAM	12	0	20.61	0.115	19.96	0.099	21.50	0.141
5	16QAM	12	7	20.44	0.111	21.43	0.139	21.53	0.142
5	16QAM	12	13	20.88	0.122	21.57	0.144	21.53	0.142
5	16QAM	25	0	21.63	0.146	21.44	0.139	21.59	0.144

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	22.63	0.183	22.62	0.183	22.34	0.171
3	QPSK	1	8	22.81	0.191	21.97	0.157	23.36	0.217
3	QPSK	1	14	22.94	0.197	22.69	0.186	22.51	0.178
3	QPSK	8	0	22.43	0.175	22.27	0.169	21.41	0.138
3	QPSK	8	4	22.07	0.161	22.31	0.170	22.10	0.162
3	QPSK	8	7	22.26	0.168	21.88	0.154	22.30	0.170
3	QPSK	15	0	22.16	0.164	22.24	0.167	21.96	0.157
3	16QAM	1	0	22.29	0.169	22.37	0.173	22.32	0.171
3	16QAM	1	8	22.06	0.161	21.62	0.145	21.95	0.157
3	16QAM	1	14	22.16	0.164	21.10	0.129	21.71	0.148
3	16QAM	8	0	21.12	0.129	21.44	0.139	21.51	0.142
3	16QAM	8	4	21.08	0.128	21.51	0.142	21.25	0.133
3	16QAM	8	7	20.93	0.124	21.40	0.138	21.54	0.143
3	16QAM	15	0	20.30	0.107	21.54	0.143	21.51	0.142

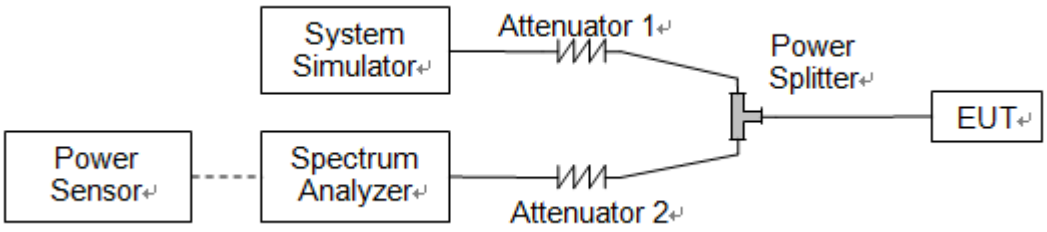
LTE Band 26				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26697		26740		26783	
Frequency (MHz)				814.7		819.0		823.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	22.19	0.166	22.91	0.195	22.81	0.191
1.4	QPSK	1	3	22.65	0.184	23.19	0.208	23.15	0.207
1.4	QPSK	1	5	22.61	0.182	22.90	0.195	22.91	0.195
1.4	QPSK	3	0	22.61	0.182	22.87	0.194	22.71	0.187
1.4	QPSK	3	1	22.28	0.169	22.64	0.184	22.60	0.182
1.4	QPSK	3	3	22.43	0.175	22.64	0.184	22.76	0.189
1.4	QPSK	6	0	22.23	0.167	21.96	0.157	22.31	0.170
1.4	16QAM	1	0	22.33	0.171	21.88	0.154	22.19	0.166
1.4	16QAM	1	3	21.35	0.136	22.48	0.177	21.92	0.156
1.4	16QAM	1	5	21.89	0.155	21.83	0.152	22.32	0.171
1.4	16QAM	3	0	22.35	0.172	22.84	0.192	22.75	0.188
1.4	16QAM	3	1	22.47	0.177	22.47	0.177	22.53	0.179
1.4	16QAM	3	3	22.42	0.175	21.76	0.150	22.59	0.182
1.4	16QAM	6	0	19.78	0.095	21.44	0.139	21.17	0.131

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.

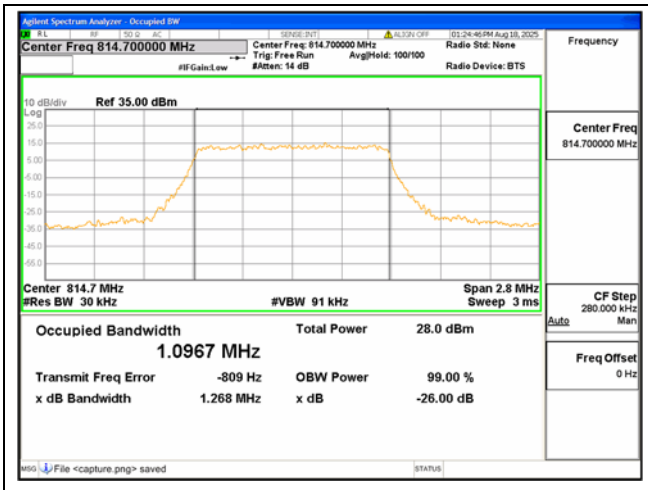
2.2.3. Test procedure

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

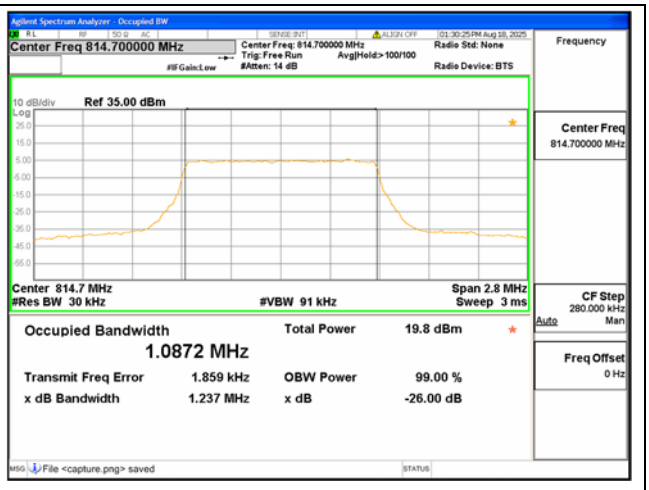
2.2.4. Test Result

LTE Band	BW (MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B26 Part90	1.4	Low	26697	814.7	QPSK	1.0967	1.2682	PASS
B26 Part90	1.4	Low	26697	814.7	16QAM	1.0872	1.2374	PASS
B26 Part90	1.4	Mid	26740	819	QPSK	1.0951	1.2707	PASS
B26 Part90	1.4	Mid	26740	819	16QAM	1.0984	1.2887	PASS
B26 Part90	1.4	High	26783	823.3	QPSK	1.0965	1.2862	PASS
B26 Part90	1.4	High	26783	823.3	16QAM	1.0990	1.2845	PASS
B26 Part90	3	Low	26705	815.5	QPSK	2.6972	2.9711	PASS
B26 Part90	3	Low	26705	815.5	16QAM	2.7053	3.0034	PASS
B26 Part90	3	Mid	26740	819	QPSK	2.7002	2.9838	PASS
B26 Part90	3	Mid	26740	819	16QAM	2.7032	2.9786	PASS
B26 Part90	3	High	26775	822.5	QPSK	2.6994	2.9782	PASS
B26 Part90	3	High	26775	822.5	16QAM	2.7004	2.9935	PASS
B26 Part90	5	Low	26715	816.5	QPSK	4.4736	4.9296	PASS
B26 Part90	5	Low	26715	816.5	16QAM	4.4825	4.9875	PASS
B26 Part90	5	Mid	26740	819	QPSK	4.4763	4.9446	PASS
B26 Part90	5	Mid	26740	819	16QAM	4.4841	4.9015	PASS
B26	5	High	26765	821.5	QPSK	4.4768	4.9505	PASS

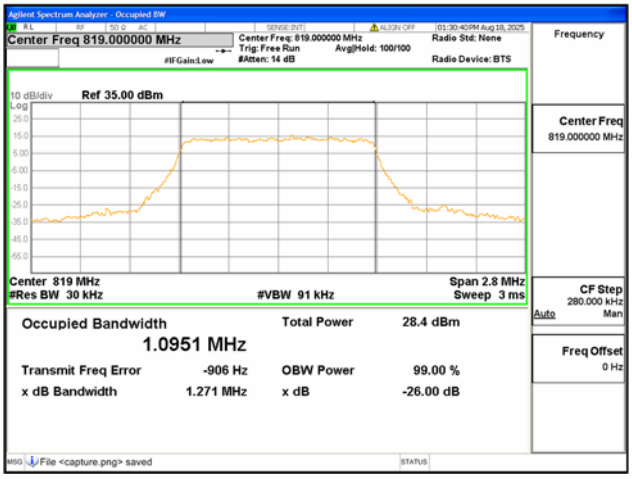
Part90								
B26 Part90	5	High	26765	821.5	16QAM	4.4791	4.9482	PASS
B26 Part90	10	Low	26740	819	QPSK	8.9499	9.6675	PASS
B26 Part90	10	Low	26740	819	16QAM	8.9160	9.6448	PASS
B26 Part90	10	Mid	26740	819	QPSK	8.9413	9.7454	PASS
B26 Part90	10	Mid	26740	819	16QAM	8.9060	9.6499	PASS
B26 Part90	10	High	26740	819	QPSK	8.9305	9.6978	PASS
B26 Part90	10	High	26740	819	16QAM	8.9165	9.6610	PASS



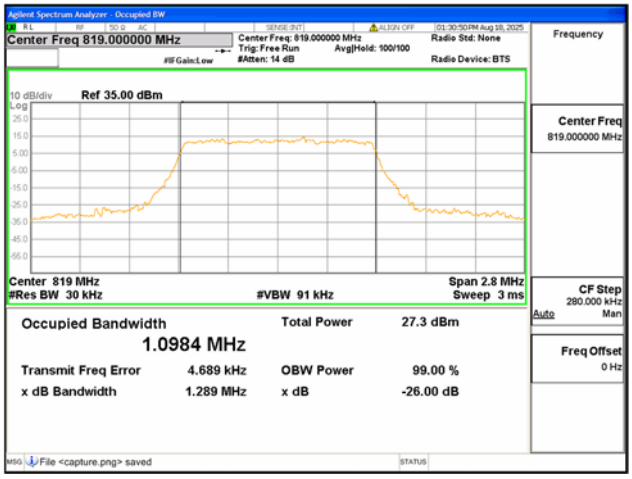
B26 Part90 / 1.4MHz / QPSK/ Low CH



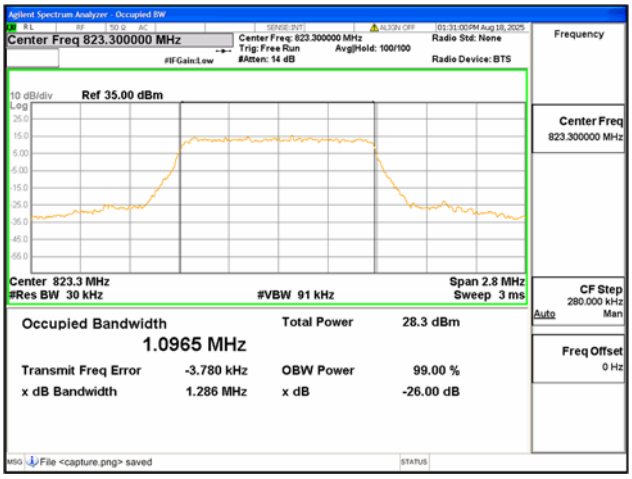
B26 Part90 / 1.4MHz / 16QAM/ Low CH



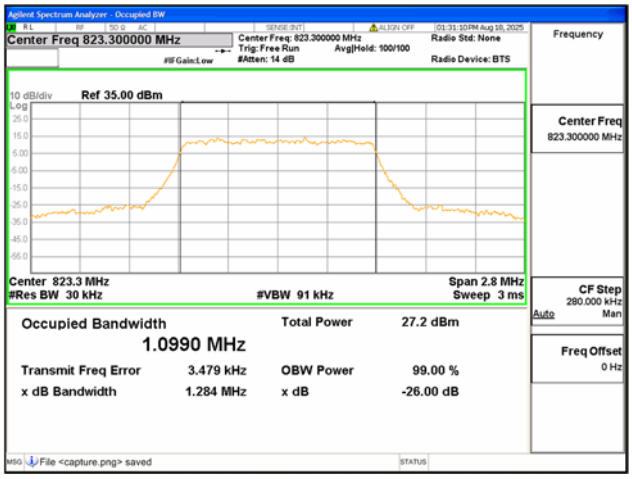
B26 Part90 / 1.4MHz / QPSK/ Mid CH



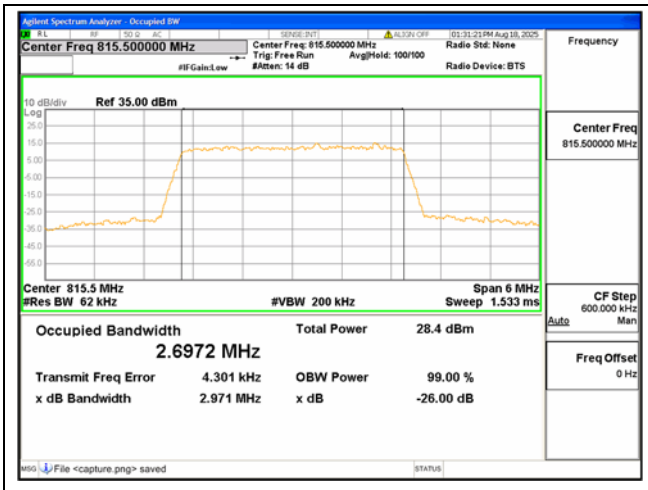
B26 Part90 / 1.4MHz / 16QAM/ Mid CH



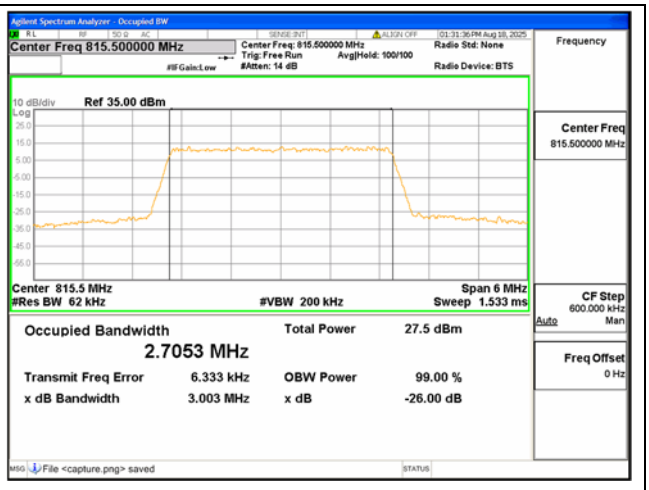
B26 Part90 / 1.4MHz / QPSK/ High CH



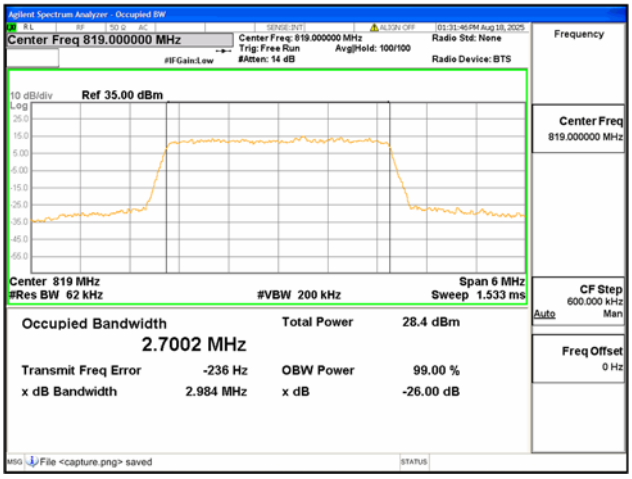
B26 Part90 / 1.4MHz / 16QAM/ High CH



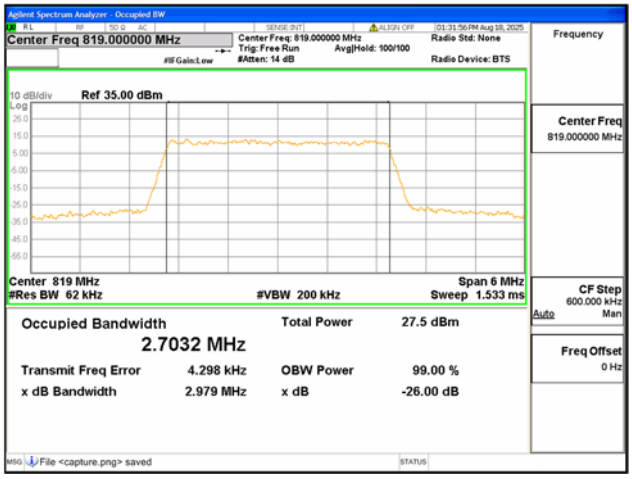
B26 Part90 / 3MHz / QPSK/ Low CH



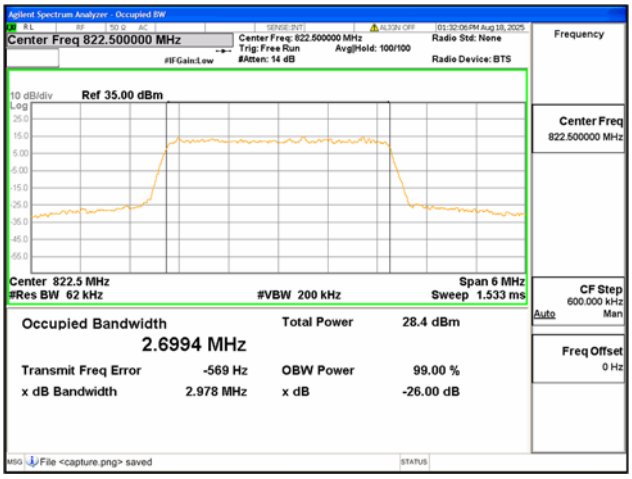
B26 Part90 / 3MHz / 16QAM/ Low CH



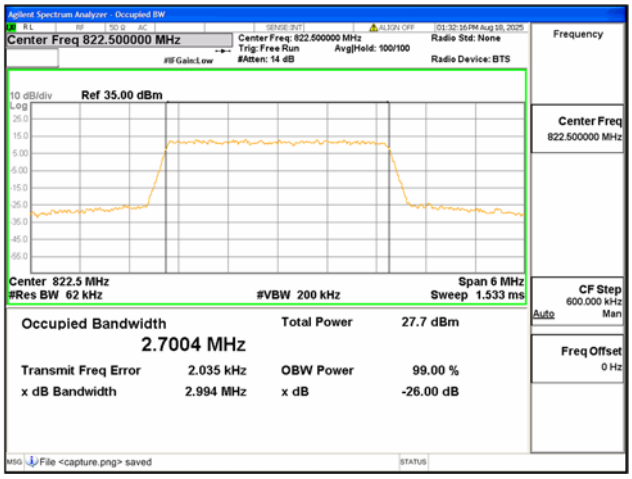
B26 Part90 / 3MHz / QPSK/ Mid CH



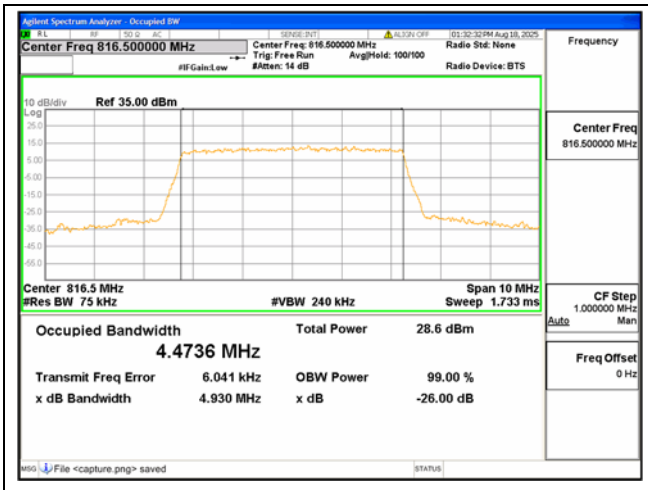
B26 Part90 / 3MHz / 16QAM/ Mid CH



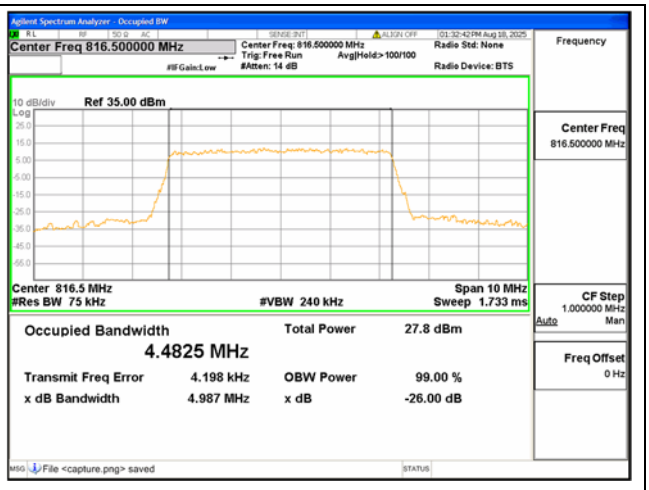
B26 Part90 / 3MHz / QPSK/ High CH



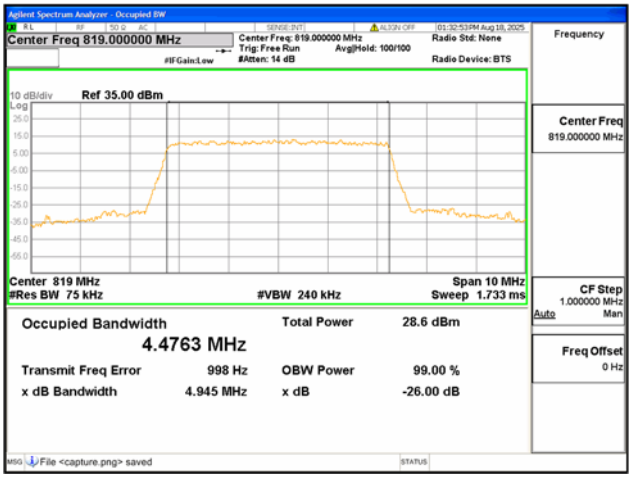
B26 Part90 / 3MHz / 16QAM/ High CH



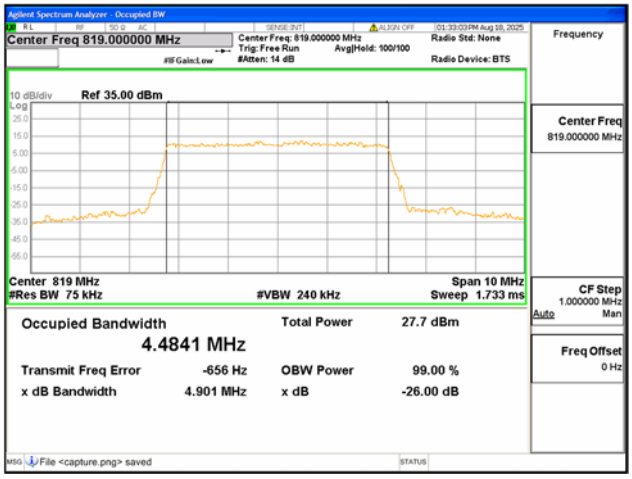
B26 Part90 / 5MHz / QPSK/ Low CH



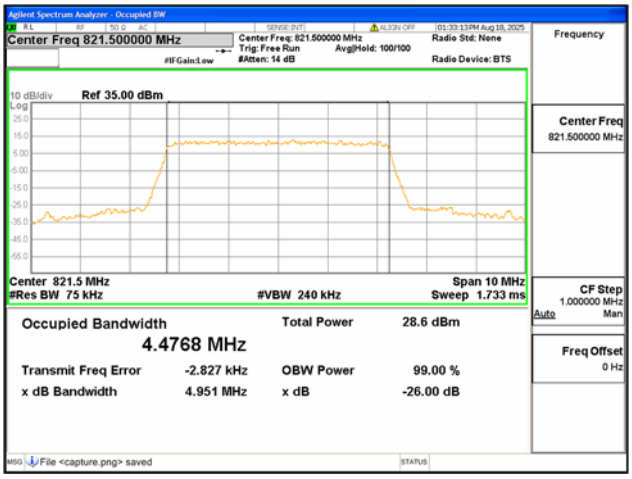
B26 Part90 / 5MHz / 16QAM/ Low CH



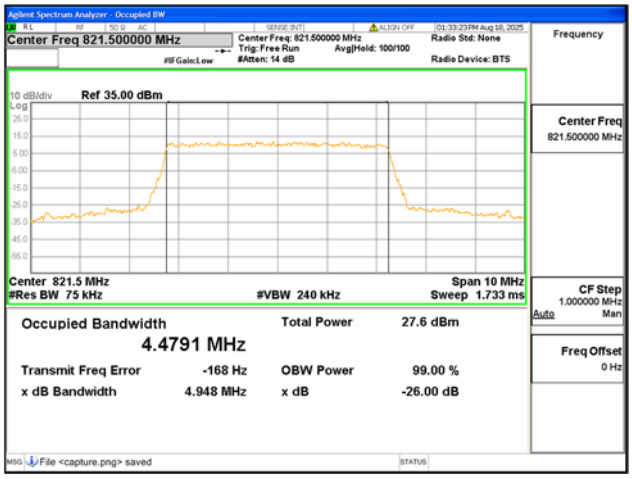
B26 Part90 / 5MHz / QPSK/ Mid CH



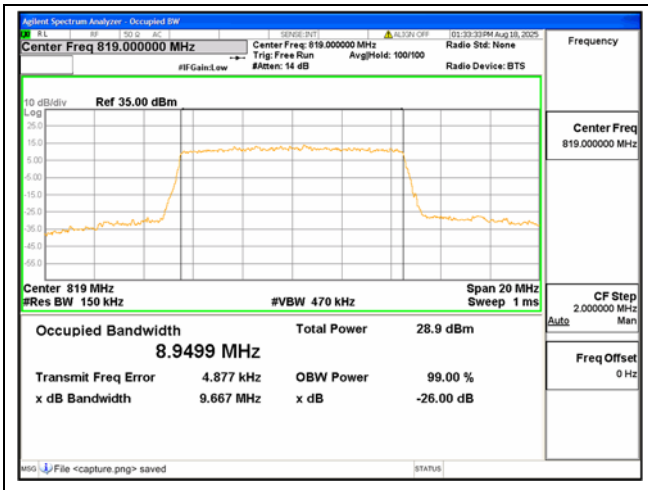
B26 Part90 / 5MHz / 16QAM/ Mid CH



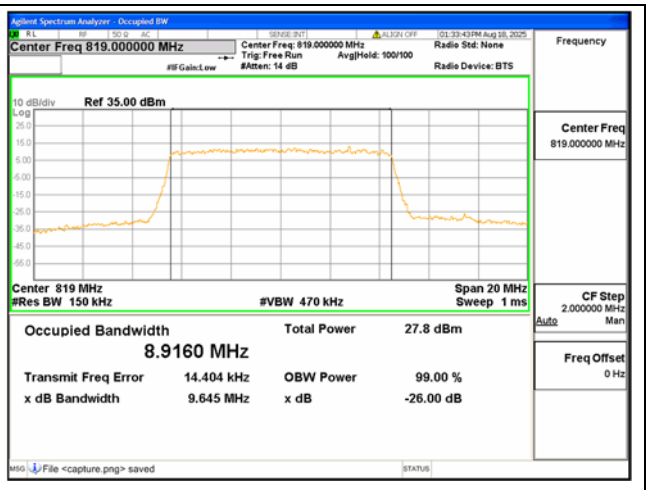
B26 Part90 / 5MHz / QPSK/ High CH



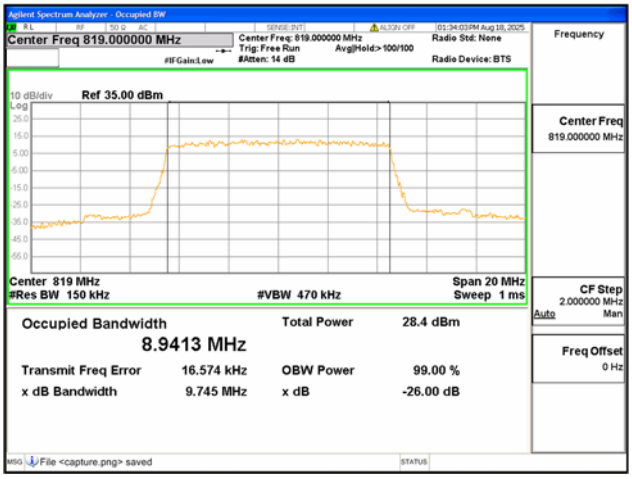
B26 Part90 / 5MHz / 16QAM/ High CH



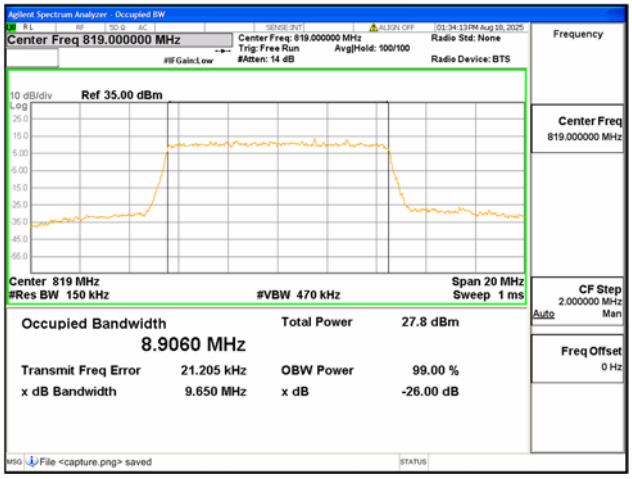
B26 Part90 / 10MHz / QPSK/ Low CH



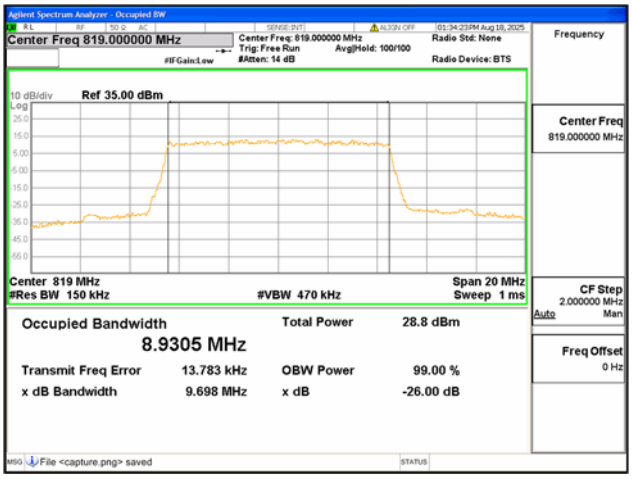
B26 Part90 / 10MHz / 16QAM/ Low CH



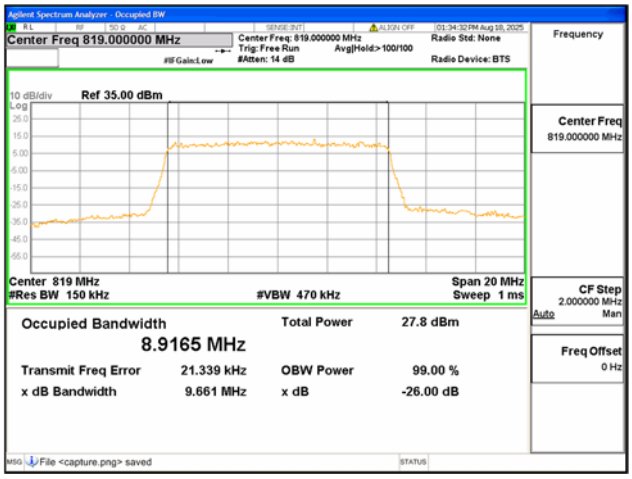
B26 Part90 / 10MHz / QPSK/ Mid CH



B26 Part90 / 10MHz / 16QAM/ Mid CH



B26 Part90 / 10MHz / QPSK/ High CH



B26 Part90 / 10MHz / 16QAM/ High CH

2.3. Frequency Stability

2.3.1. Requirement

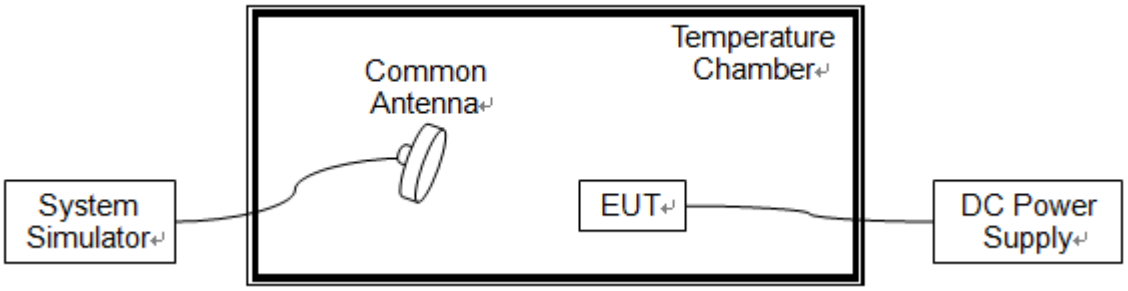
According to FCC section 2.1055 & 90.213, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

(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 -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 3.8V, 4.4V and 3.5V, which are specified by the applicant; the normal temperature here used is 20°C.

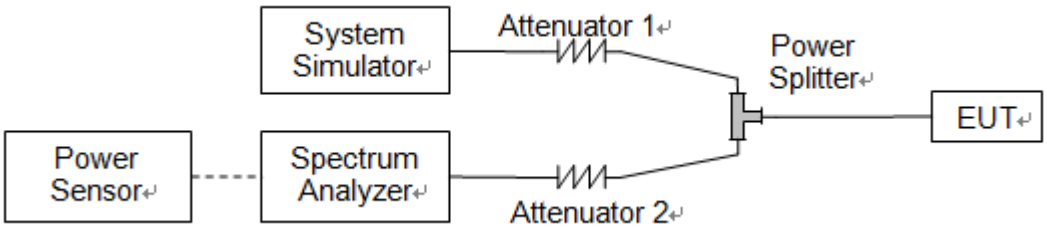
LTE Band 26, 16QAM, Channel 26740, Frequency 819MHz Limit =±2.5ppm					
Voltage (%)	**Power (VDC)**	**Temp(°C)**	**Fre. Dev.(Hz)**	**Deviation (ppm)**	**Result**
Normal	3.80	+20(Ref)	15	0.018	PASS
Normal		-30	17	0.021	
Normal		-20	17	0.021	
Normal		-10	21	0.026	
Normal		0	-16	-0.020	
Normal		+10	-1	-0.001	
Normal		+20	15	0.018	
Normal		+30	14	0.017	
Normal		+40	16	0.020	
Normal		+50	20	0.024	
Normal		+60	13	0.016	
Normal		+70	18	0.022	
Normal		+75	22	**0.027**	
High	4.40	+20	15	0.018	
BATT.ENDPOINT	3.50	+20	17	0.021	

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

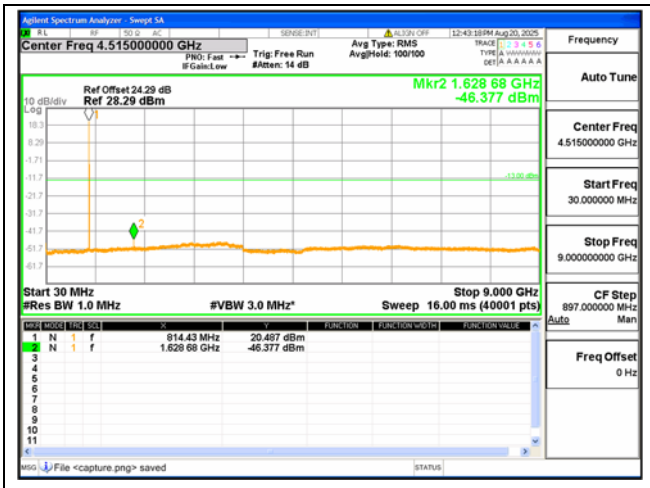


The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

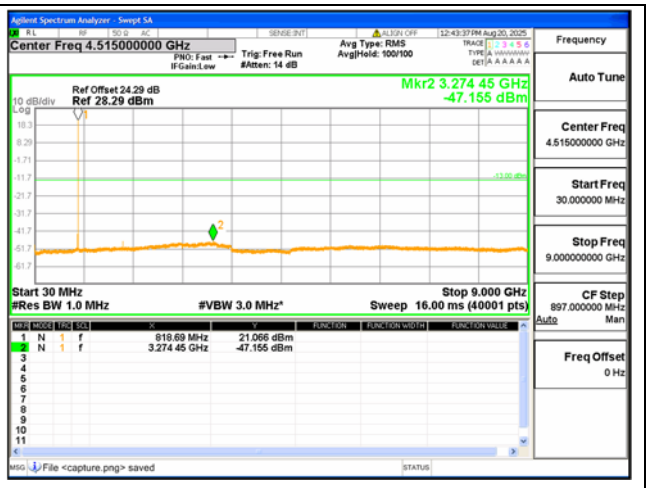
2.4.3. Test procedure

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

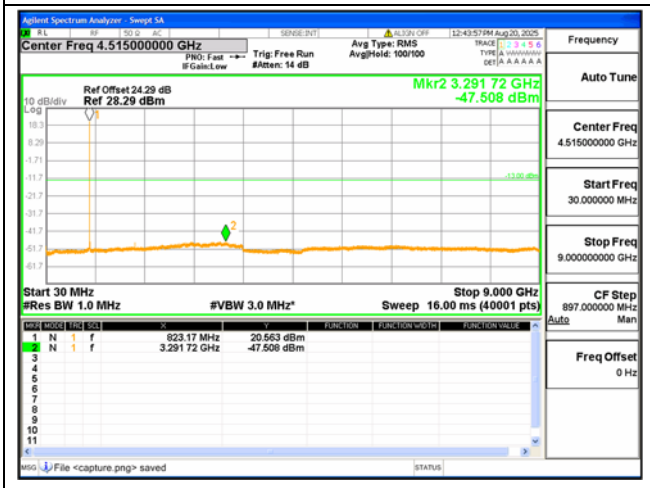
2.4.4. Test Result



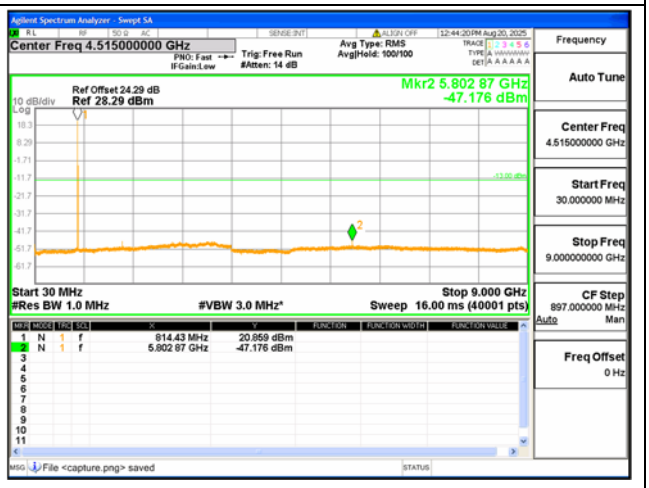
B26 Part90 / 1.4MHz / Low CH / QPSK



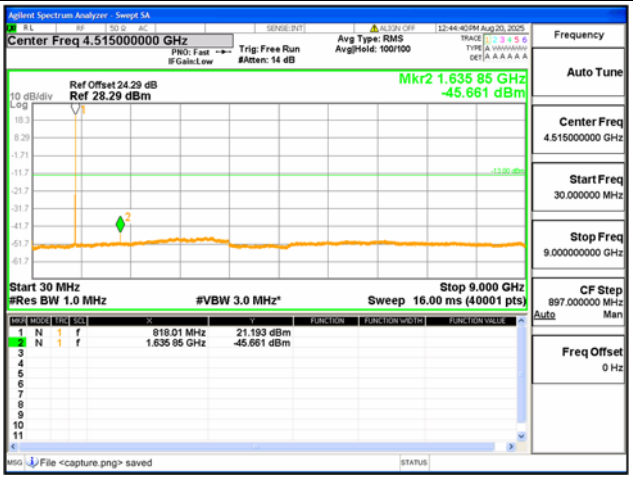
B26 Part90 / 1.4MHz / Mid CH / QPSK



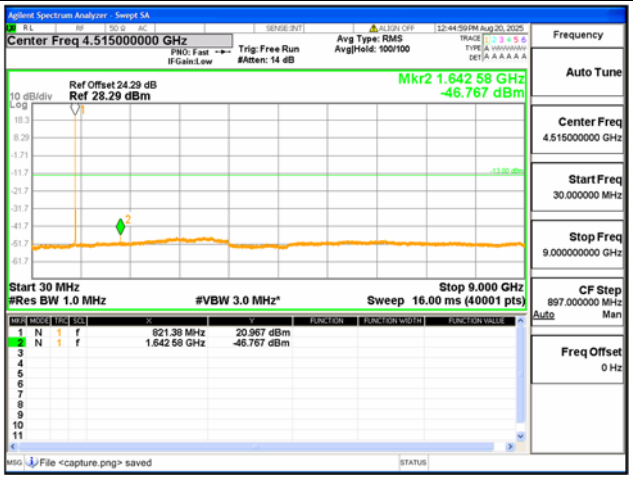
B26 Part90 / 1.4MHz / High CH / QPSK



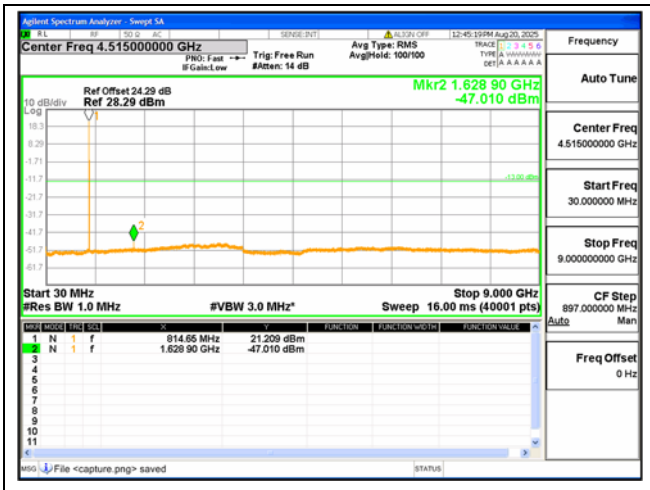
B26 Part90 / 3MHz / Low CH / QPSK



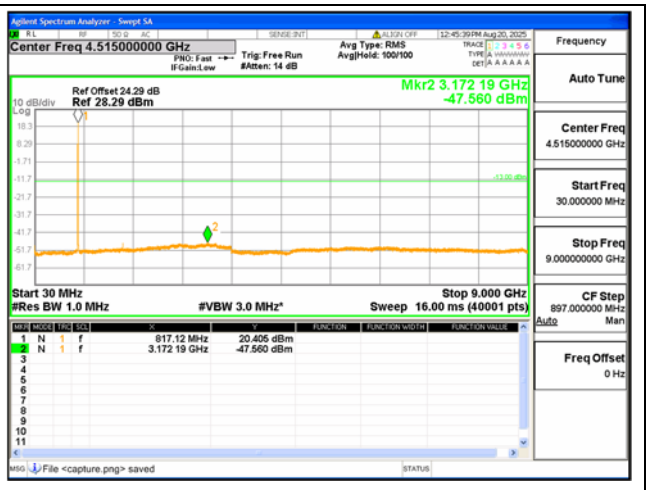
B26 Part90 / 3MHz / Mid CH / QPSK



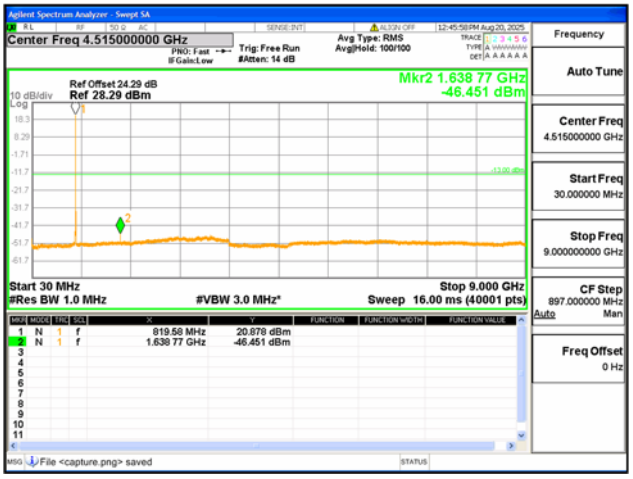
B26 Part90 / 3MHz / High CH / QPSK



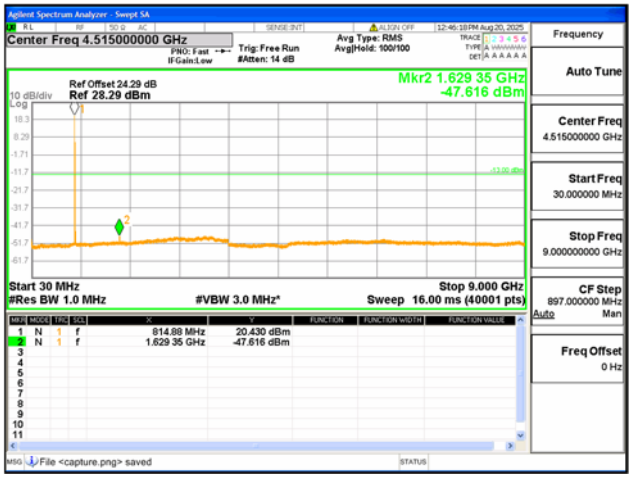
B26 Part90 / 5MHz / Low CH / QPSK



B26 Part90 / 5MHz / Mid CH / QPSK

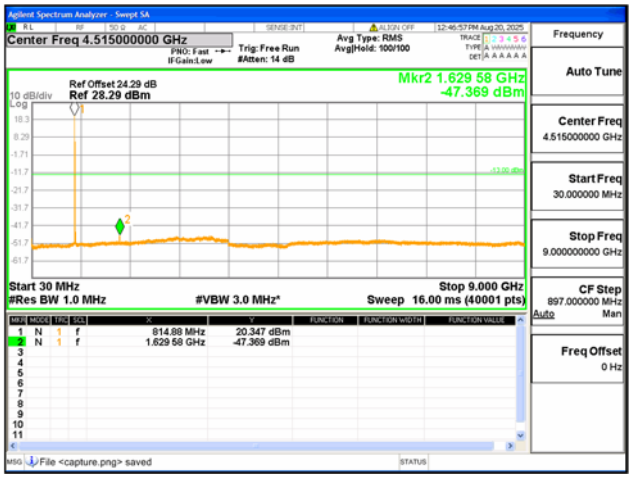


B26 Part90 / 5MHz / High CH / QPSK



B26 Part90 / 10MHz / Low CH / QPSK

B26 Part90 / 10MHz / Mid CH / QPSK



B26 Part90 / 10MHz / High CH / QPSK

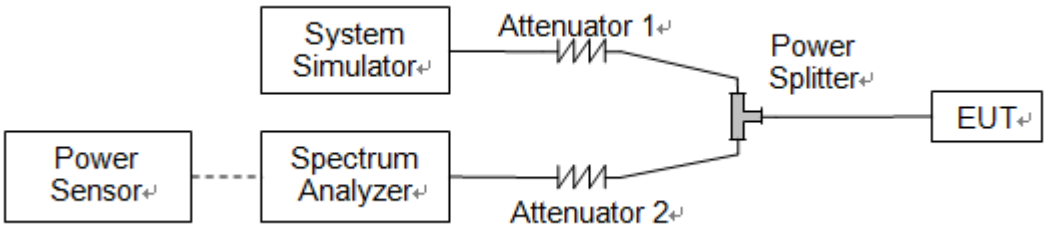
2.5. Band Edge

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

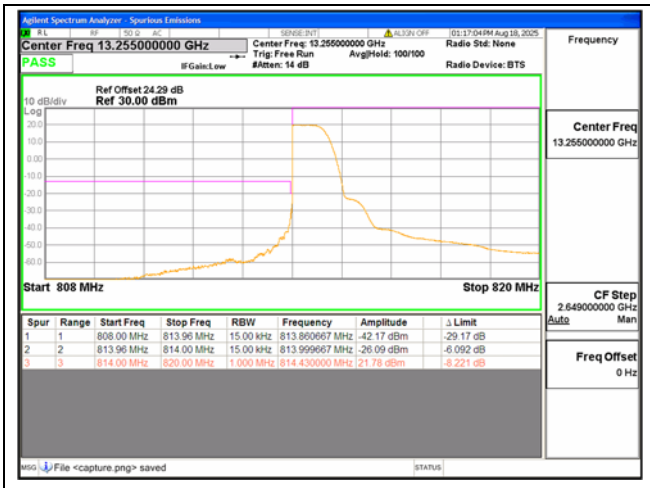


The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

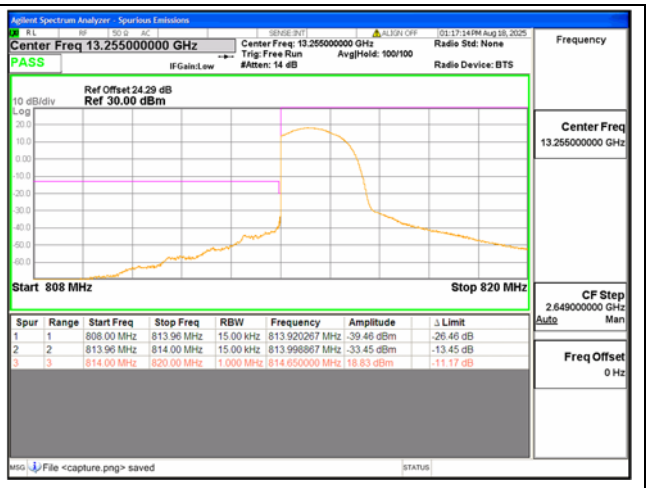
2.5.3. Test procedure

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

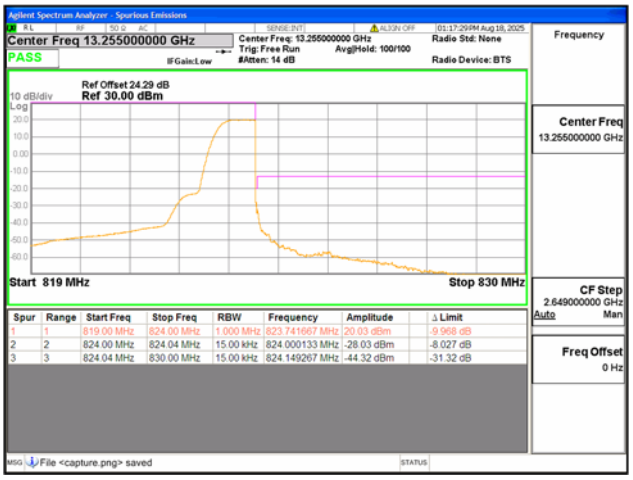
2.5.4. Test Result



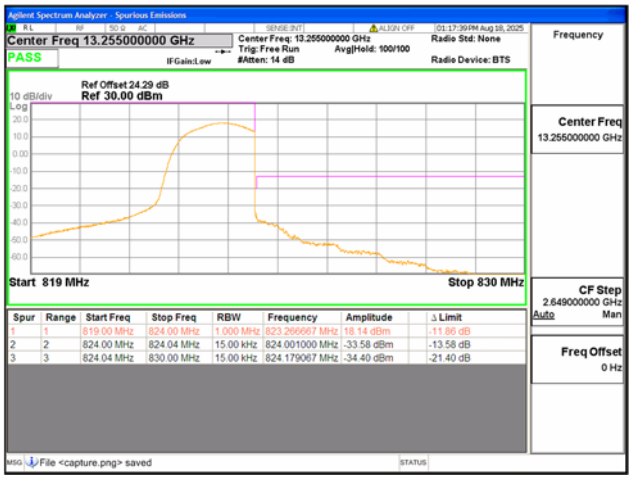
B26 Part90 / 1.4MHz / Low CH / QPSK / 1 RB



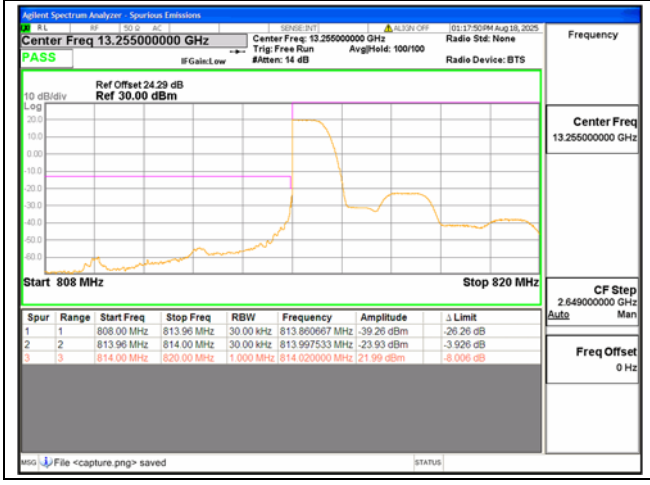
B26 Part90 / 1.4MHz / Low CH / QPSK / FULL RB

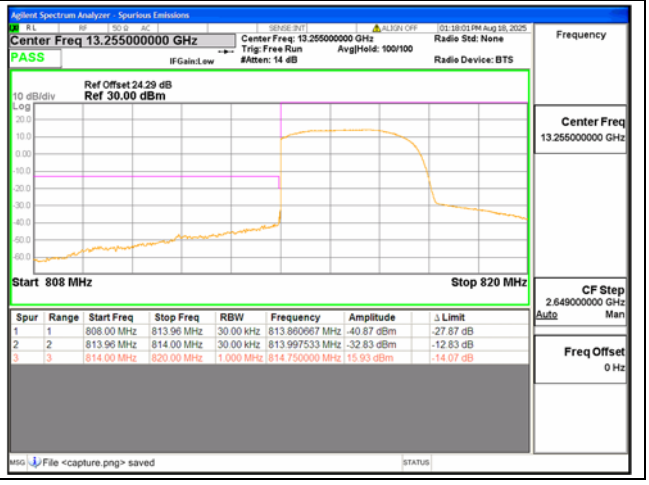


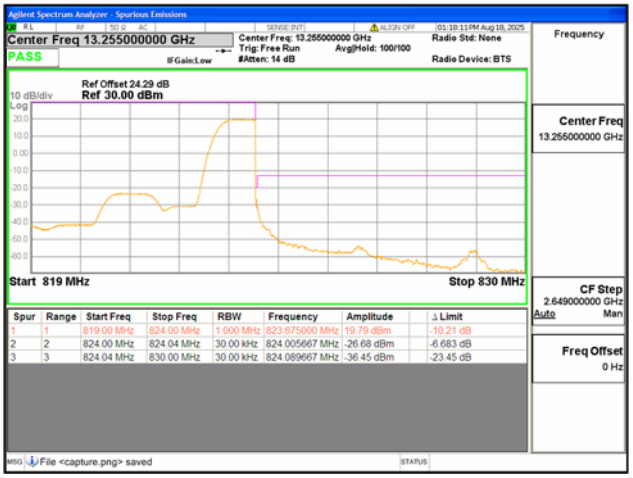
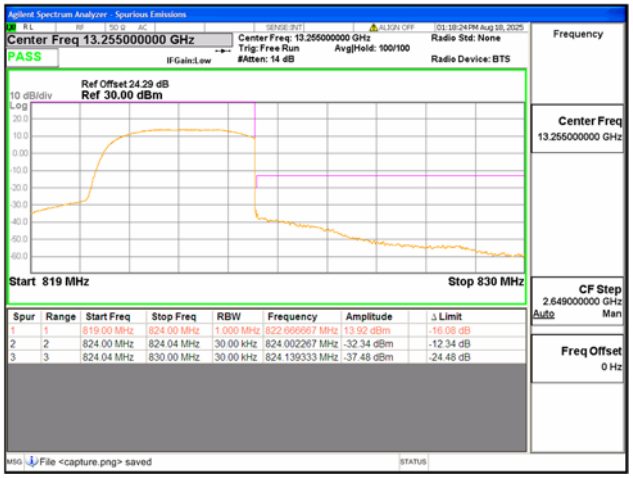
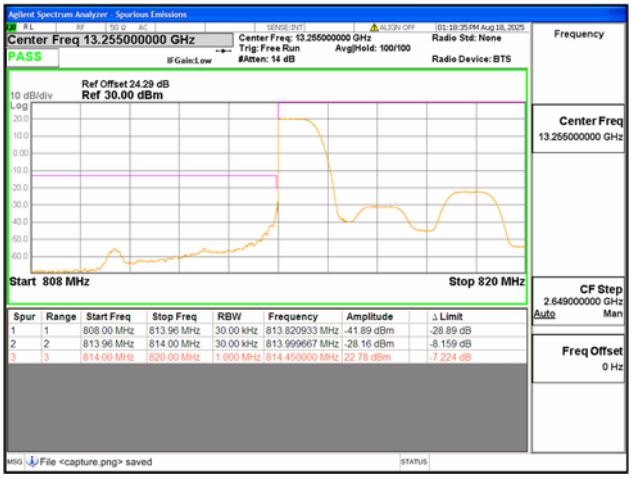
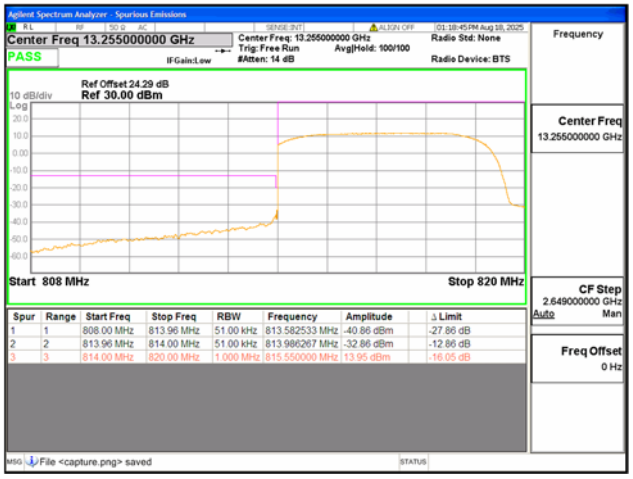
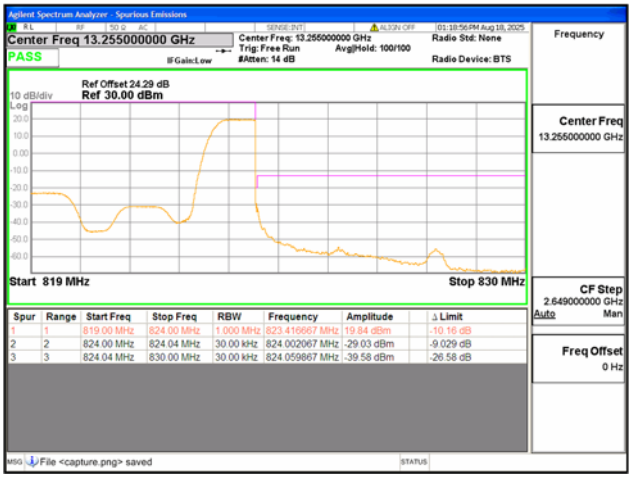
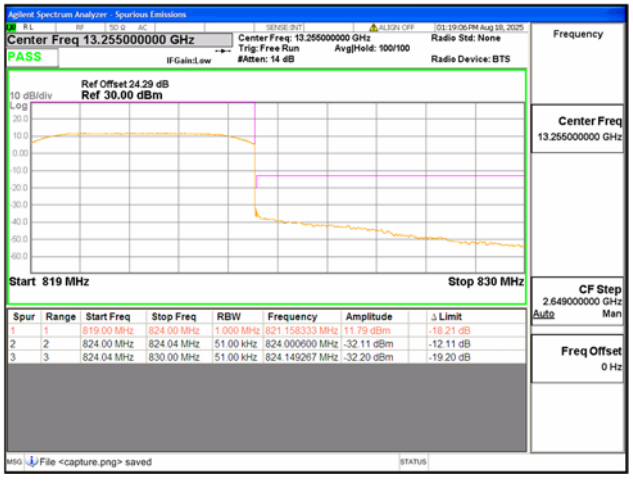
B26 Part90 / 1.4MHz / High CH / QPSK / 1 RB

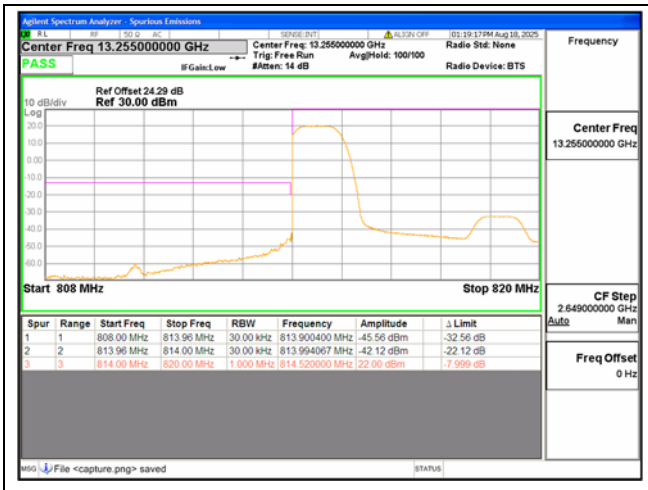


B26 Part90 / 1.4MHz / High CH / QPSK / FULL RB

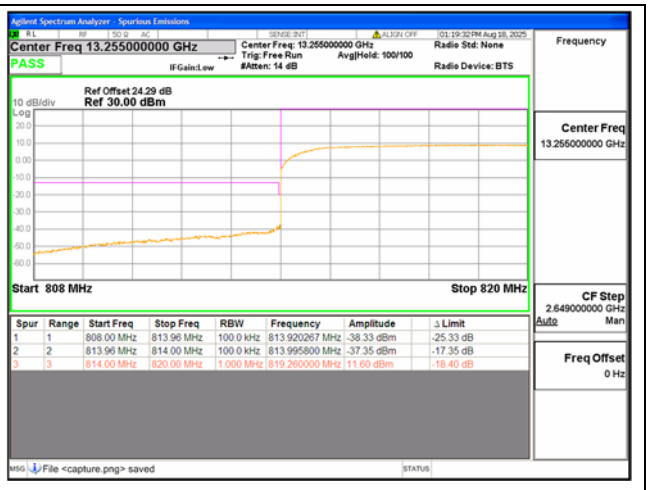




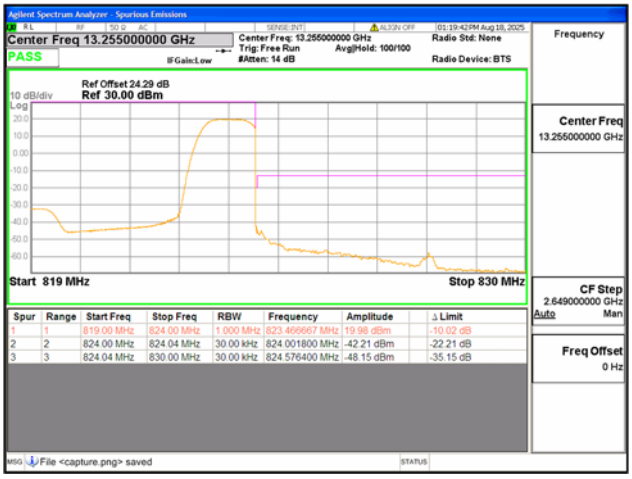
B26 Part90 / 3MHz / Low CH / QPSK / 1 RB	B26 Part90 / 3MHz / Low CH / QPSK / FULL RB
	
B26 Part90 / 3MHz / High CH / QPSK / 1 RB	B26 Part90 / 3MHz / High CH / QPSK / FULL RB
	
B26 Part90 / 5MHz / Low CH / QPSK / 1 RB	B26 Part90 / 5MHz / Low CH / QPSK / FULL RB
	
B26 Part90 / 5MHz / High CH / QPSK / 1 RB	B26 Part90 / 5MHz / High CH / QPSK / FULL RB



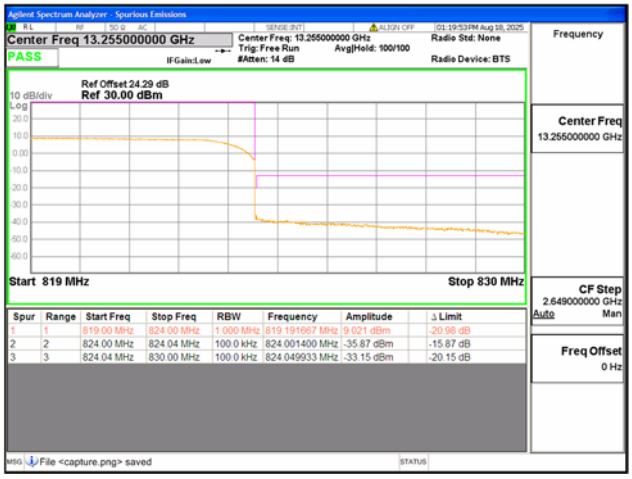
B26 Part90 / 10MHz / Low CH / QPSK / 1 RB



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



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



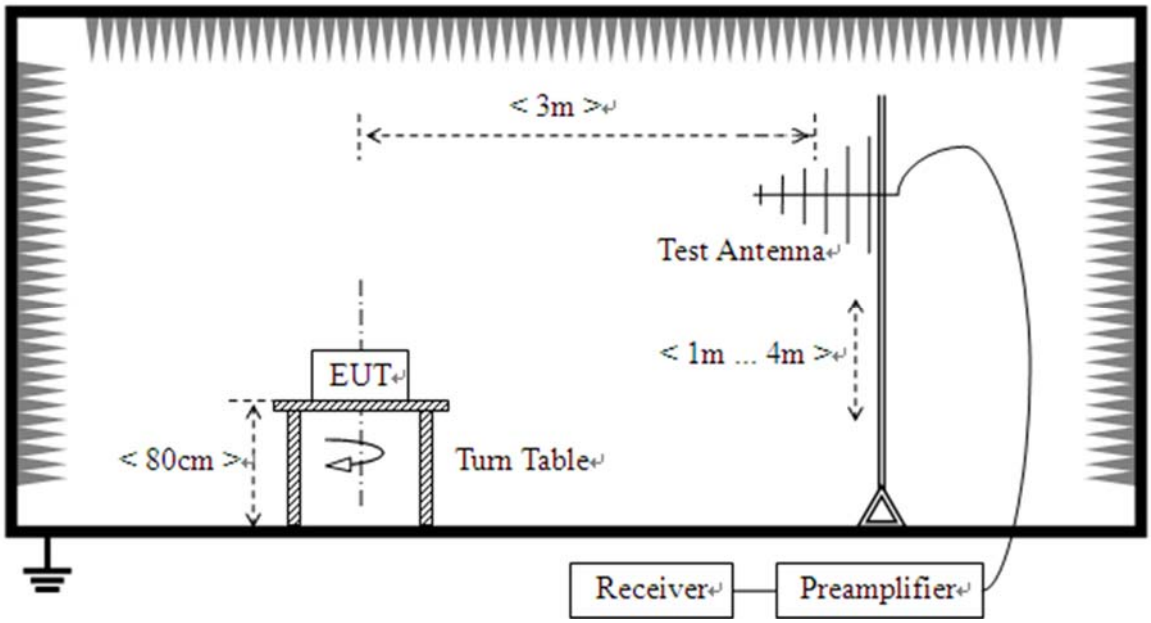
B26 Part90 / 10MHz / High CH / QPSK / FULL RB

2.6. Radiated Spurious Emissions

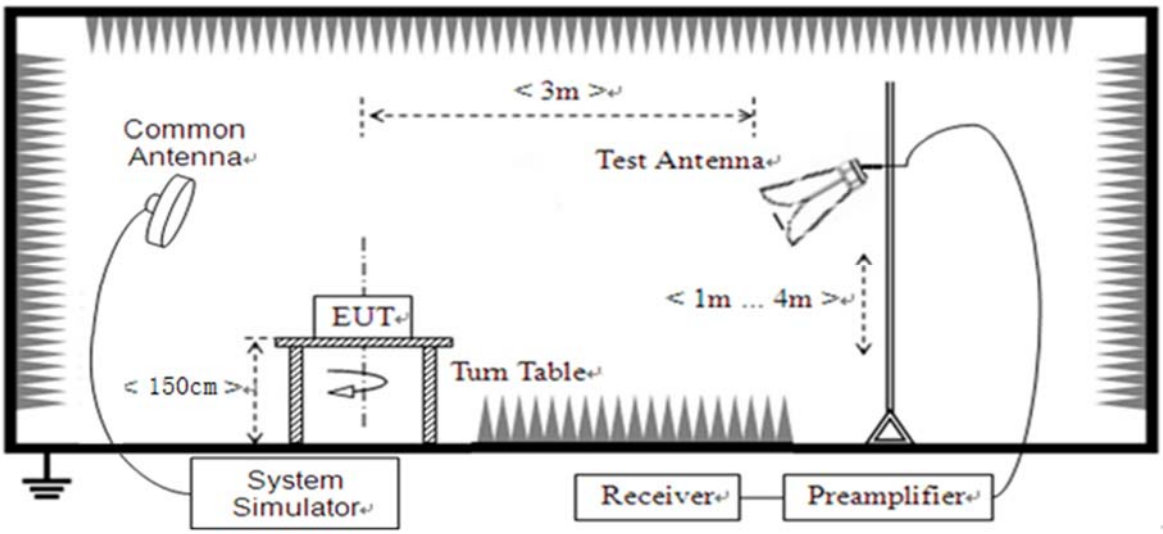
2.6.1. Requirement

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 to1GHz)



(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:

$A_{SUBST} = P_{SUBST\_TX} - P_{SUBST\_RX} - L_{SUBST\_CABLES} + G_{SUBST\_TX\_ANT}$

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

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

P_{SUBST_TX} is signal generator level,

P_{SUBST_RX} is receiver level,

L_{SUBST_CABLES} is cable losses including TX cable,

$G_{SUBST\_TX\_ANT}$ 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.

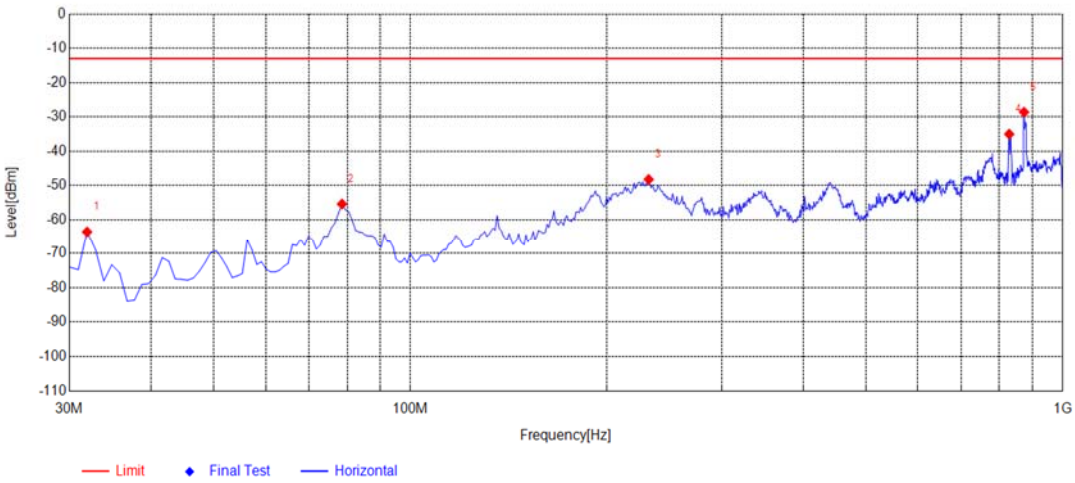
Note3: All bandwidth and modulation were considered and evaluated respectively by performing full test for each band, only the worst cases (Max Bandwidth and QPSK mode) were recorded in this test report.

Note4: N/A means the frequency is the basic frequency or the base station frequency, they are no need to verdict.

Note5: The amplitude of emissions (18GHz to 10th harmonics) which are attenuated more than 20 dB below the limit are not be reported.

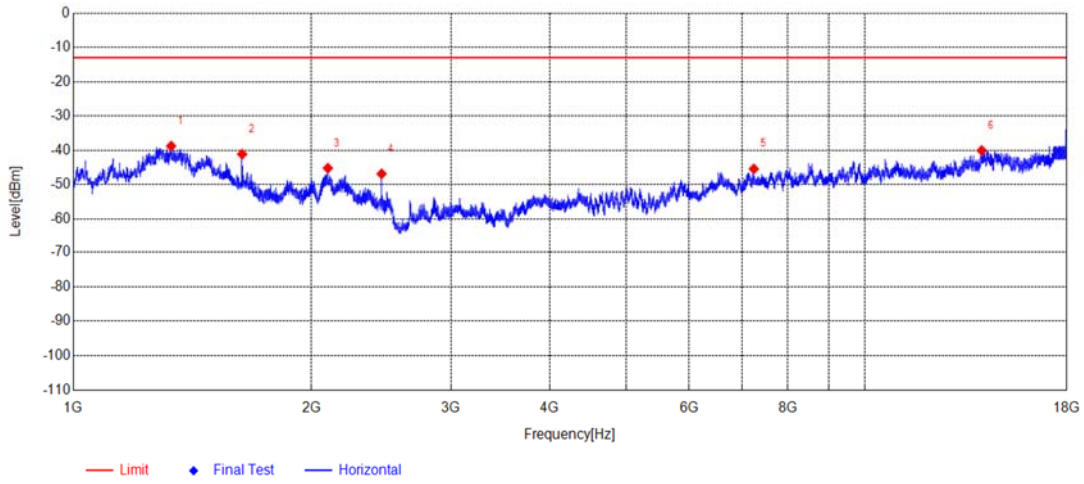
LTE Band 26

Plot for Low Channel



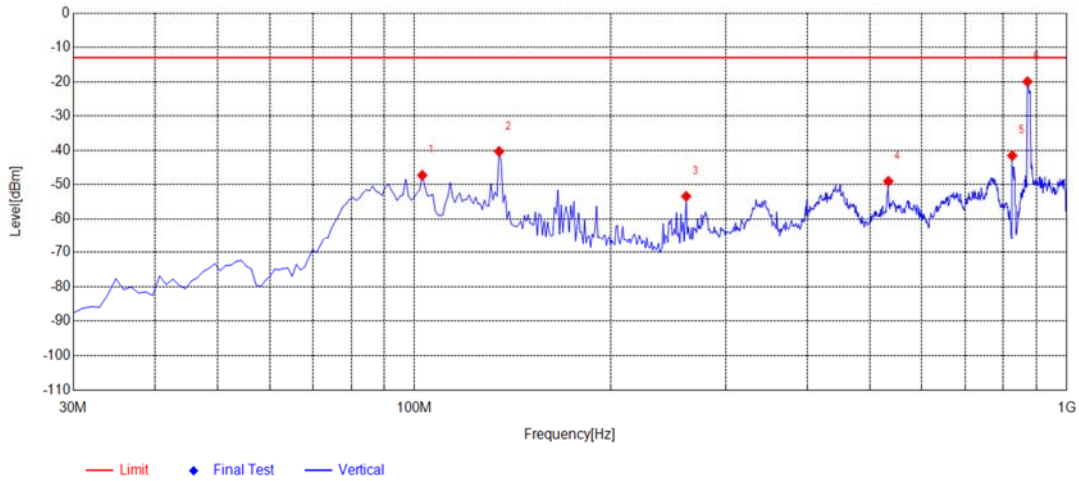
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
31.9419	-33.98	-63.55	-13.00	50.55	-29.57	Horizontal	PASS
78.5485	-31.90	-55.39	-13.00	42.39	-23.49	Horizontal	PASS
231.9620	-44.72	-48.22	-13.00	35.22	-3.50	Horizontal	PASS
828.1381	-39.96	-35.02	-13.00	22.02	4.94	Horizontal	NA
872.8028	-31.63	-28.61	-13.00	15.61	3.02	Horizontal	NA



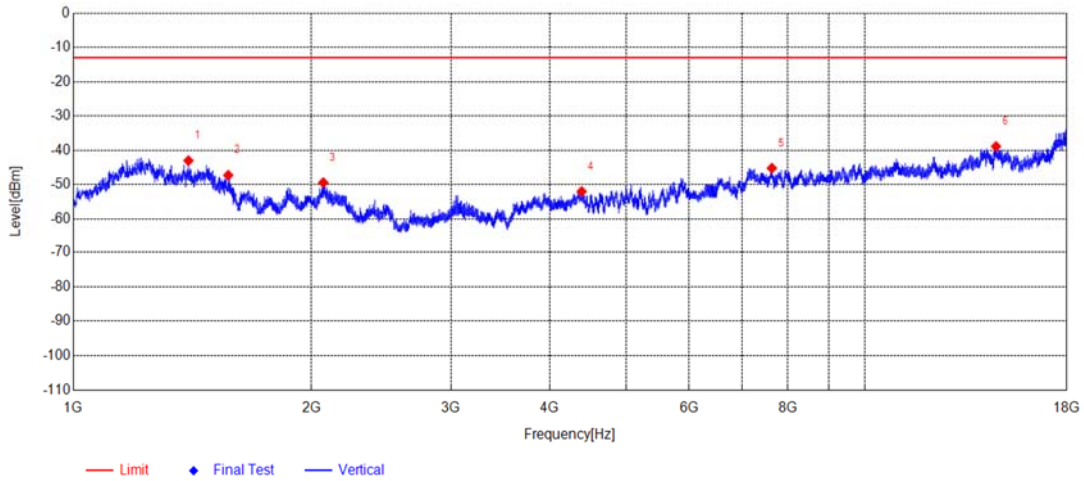
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1329.5330	-24.05	-38.76	-13.00	25.76	-14.71	Horizontal	PASS
1634.5635	-27.64	-41.13	-13.00	28.13	-13.49	Horizontal	PASS
2097.6098	-36.36	-45.22	-13.00	32.22	-8.86	Horizontal	PASS
2452.6453	-35.83	-46.86	-13.00	33.86	-11.03	Horizontal	PASS
7244.5245	-52.95	-45.42	-13.00	32.42	7.53	Horizontal	PASS
14060.0060	-58.48	-40.05	-13.00	27.05	18.43	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

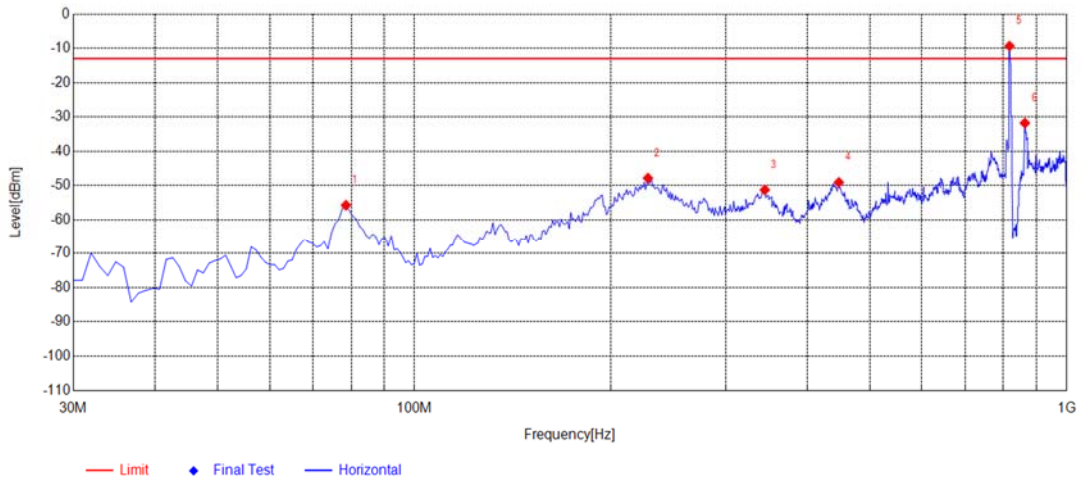
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
102.8228	-33.28	-47.27	-13.00	34.27	-13.99	Vertical	PASS
134.8649	-31.51	-40.32	-13.00	27.32	-8.81	Vertical	PASS
261.0911	-45.52	-53.42	-13.00	40.42	-7.90	Vertical	PASS
532.9630	-49.64	-49.02	-13.00	36.02	0.62	Vertical	PASS
825.2252	-46.84	-41.54	-13.00	28.54	5.30	Vertical	NA
870.8609	-23.03	-19.99	-13.00	6.99	3.04	Vertical	NA



(Antenna Vertical, 1GHz to 18GHz)

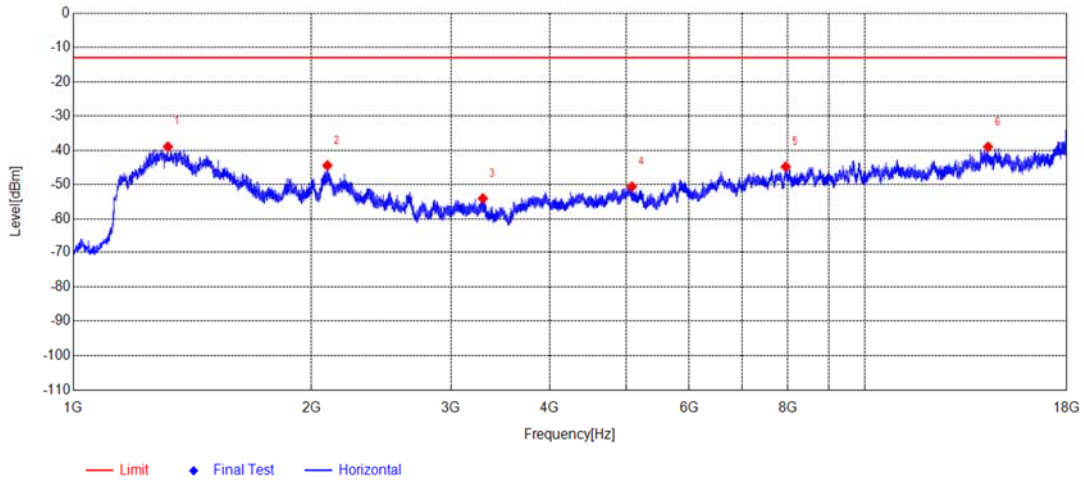
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1398.0398	-28.46	-43.01	-13.00	30.01	-14.55	Vertical	PASS
1569.5570	-33.13	-47.28	-13.00	34.28	-14.15	Vertical	PASS
2070.1070	-40.07	-49.42	-13.00	36.42	-9.35	Vertical	PASS
4390.3390	-50.44	-52.01	-13.00	39.01	-1.57	Vertical	PASS
7634.5635	-55.02	-45.22	-13.00	32.22	9.80	Vertical	PASS
14658.8659	-59.88	-38.88	-13.00	25.88	21.00	Vertical	PASS

Plot for Mid Channel



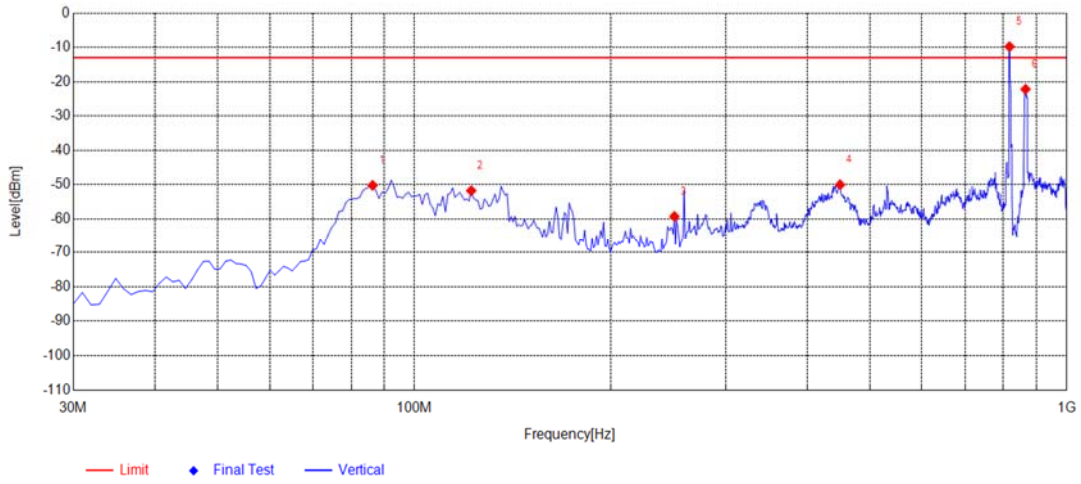
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
78.5485	-32.25	-55.74	-13.00	42.74	-23.49	Horizontal	PASS
228.0781	-44.52	-47.84	-13.00	34.84	-3.32	Horizontal	PASS
344.5946	-45.63	-51.26	-13.00	38.26	-5.63	Horizontal	PASS
447.5175	-46.97	-49.08	-13.00	36.08	-2.11	Horizontal	PASS
817.4575	-14.45	-9.35	-13.00	-3.65	5.10	Horizontal	NA
863.0931	-35.23	-31.78	-13.00	18.78	3.45	Horizontal	NA



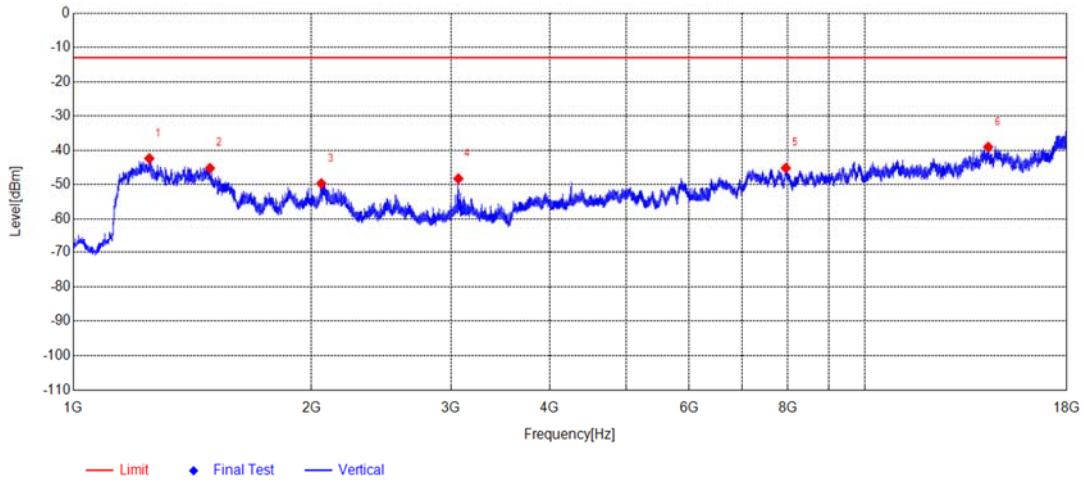
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1317.0317	-24.22	-38.94	-13.00	25.94	-14.72	Horizontal	PASS
2094.6095	-35.50	-44.44	-13.00	31.44	-8.94	Horizontal	PASS
3292.7293	-46.64	-54.06	-13.00	41.06	-7.42	Horizontal	PASS
5079.9080	-51.02	-50.59	-13.00	37.59	0.43	Horizontal	PASS
7948.9949	-54.99	-44.77	-13.00	31.77	10.22	Horizontal	PASS
14320.4320	-58.43	-38.99	-13.00	25.99	19.44	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

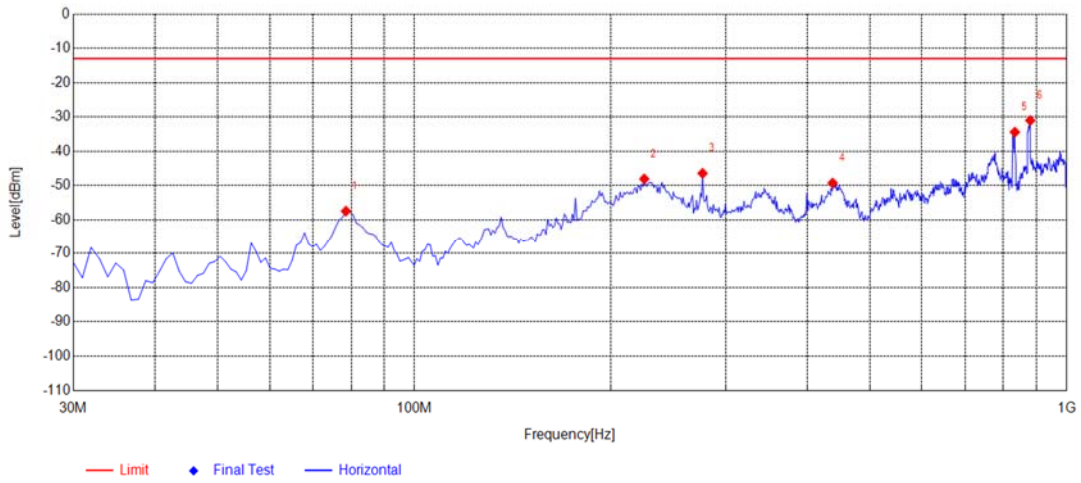
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
86.3163	-31.14	-50.21	-13.00	37.21	-19.07	Vertical	PASS
122.2422	-39.16	-51.77	-13.00	38.77	-12.61	Vertical	PASS
250.4104	-50.10	-59.28	-13.00	46.28	-9.18	Vertical	PASS
449.4595	-48.02	-50.02	-13.00	37.02	-2.00	Vertical	PASS
817.4575	-15.00	-9.78	-13.00	-3.22	5.22	Vertical	NA
865.0350	-26.41	-22.18	-13.00	9.18	4.23	Vertical	NA



(Antenna Vertical, 1GHz to 18GHz)

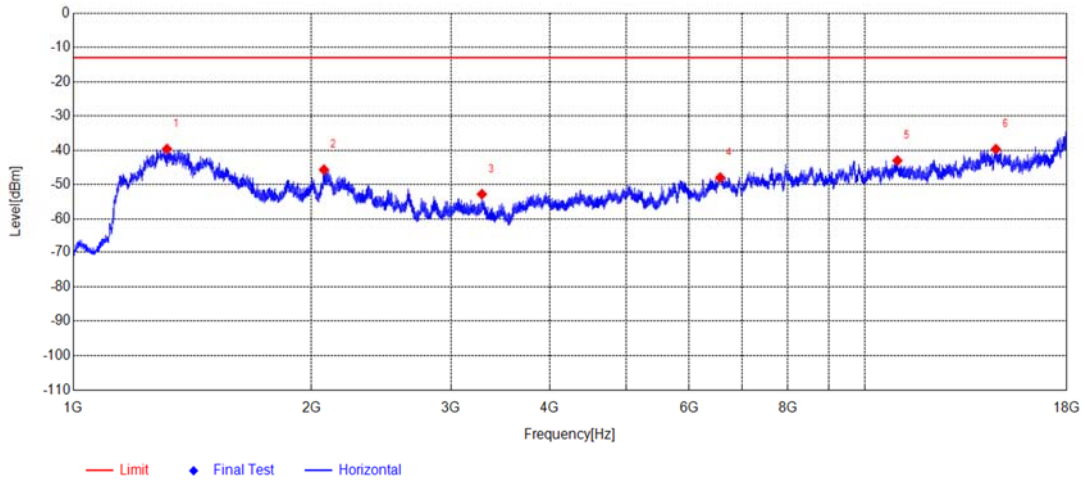
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1247.5248	-28.98	-42.38	-13.00	29.38	-13.40	Vertical	PASS
1488.5489	-32.90	-45.20	-13.00	32.20	-12.30	Vertical	PASS
2057.6058	-40.11	-49.66	-13.00	36.66	-9.55	Vertical	PASS
3066.2066	-41.78	-48.25	-13.00	35.25	-6.47	Vertical	PASS
7950.1950	-55.38	-45.19	-13.00	32.19	10.19	Vertical	PASS
14322.8323	-59.00	-39.03	-13.00	26.03	19.97	Vertical	PASS

Plot for High Channel



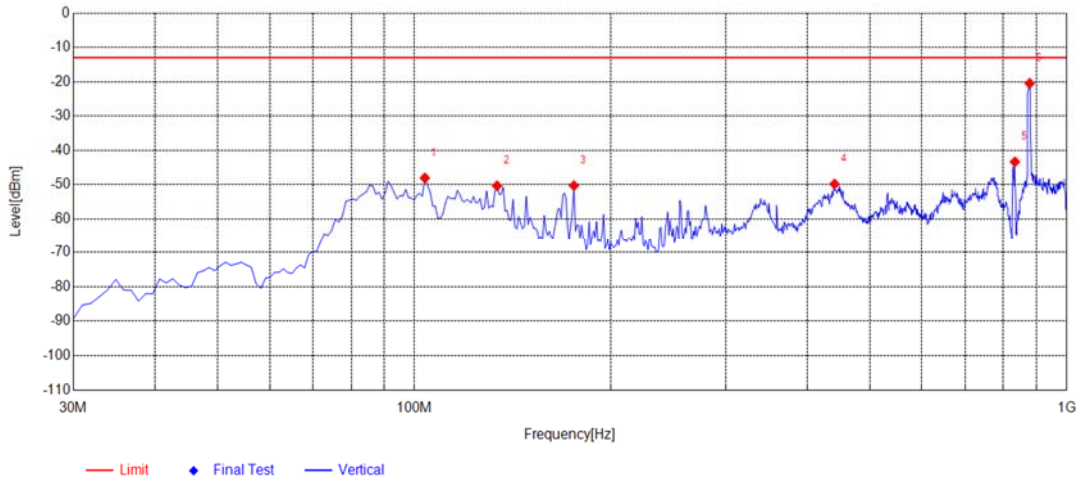
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
78.5485	-33.96	-57.45	-13.00	44.45	-23.49	Horizontal	PASS
225.1652	-45.07	-48.08	-13.00	35.08	-3.01	Horizontal	PASS
276.6266	-40.25	-46.44	-13.00	33.44	-6.19	Horizontal	PASS
437.8078	-47.33	-49.27	-13.00	36.27	-1.94	Horizontal	PASS
832.9930	-38.90	-34.42	-13.00	21.42	4.48	Horizontal	NA
879.5996	-34.52	-31.03	-13.00	18.03	3.49	Horizontal	NA



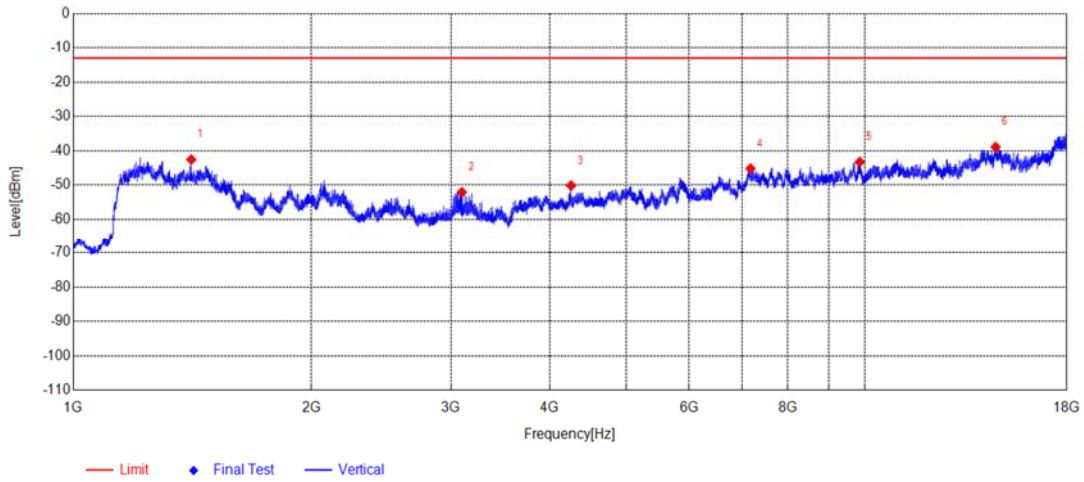
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1313.5314	-24.88	-39.60	-13.00	26.60	-14.72	Horizontal	PASS
2074.1074	-36.16	-45.65	-13.00	32.65	-9.49	Horizontal	PASS
3283.2283	-45.39	-52.79	-13.00	39.79	-7.40	Horizontal	PASS
6568.8569	-54.36	-47.97	-13.00	34.97	6.39	Horizontal	PASS
11000.9001	-58.28	-43.00	-13.00	30.00	15.28	Horizontal	PASS
14652.8653	-60.07	-39.66	-13.00	26.66	20.41	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
103.7938	-34.38	-48.06	-13.00	35.06	-13.68	Vertical	PASS
133.8939	-40.69	-50.35	-13.00	37.35	-9.66	Vertical	PASS
175.6456	-39.22	-50.29	-13.00	37.29	-11.07	Vertical	PASS
440.7207	-47.40	-49.83	-13.00	36.83	-2.43	Vertical	PASS
832.9930	-48.31	-43.35	-13.00	30.35	4.96	Vertical	NA
877.6577	-25.68	-20.47	-13.00	7.47	5.21	Vertical	NA



(Antenna Vertical, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
1409.5410	-28.28	-42.59	-13.00	29.59	-14.31	Vertical	PASS
3097.7098	-45.17	-52.08	-13.00	39.08	-6.91	Vertical	PASS
4256.3256	-47.01	-50.15	-13.00	37.15	-3.14	Vertical	PASS
7173.7174	-53.95	-45.21	-13.00	32.21	8.74	Vertical	PASS
9857.1857	-58.67	-43.28	-13.00	30.28	15.39	Vertical	PASS
14640.8641	-59.85	-38.93	-13.00	25.93	20.92	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	±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 C63.10-2013and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.

4. Test Equipment Utilized

4.1 Conducted Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY51511149	N9020A	Agilent	2025.05.15	2026.05.14
Communication Test Station	6200995016	MT8820C	Anritsu	2024.09.11	2025.09.10
Temperature Chamber	S022177101 00089002	KMT-36LF 1A0	KOMEG	2024.09.11	2025.09.10

4.2 List of Software Used

Description	Manufacturer	Software Version
MOR-2023E Test System	MORLAB	V7.99
JS36-RSE	Tonscend	5.0.0

4.3 Radiated Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
System Simulator	152038	CMW500	R&S	2024.09.11	2025.09.10
Receiver	MY56060145	N9020A	Agilent	2025.05.13	2026.05.12
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2025.06.22	2026.06.20
Test Antenna - Horn	9120D-963	BBHA 9120D	Schwarzbeck	2025.05.16	2026.05.15
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2024.09.11	2025.09.10
Preamplifier (10MHz-6GHz)	46732	S10M100L3802	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (2GHz-18GHz)	61171/61172	S020180L3203	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2025.05.13	2026.05.12
Notch Filter	N/A	WRCGV -LTE 26	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.06.21	2028.06.20
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.11.30	2025.11.29

END OF REPORT