

**CFR 47 FCC PART 2
CFR 47 FCC PART 22 H
CFR 47 FCC PART 24 E
CFR 47 FCC PART 27
CFR 47 FCC PART 90S**

TEST REPORT

For

MD-PH-001

MODEL NUMBER: MD-PH-001

REPORT NUMBER: 4791159315-3-RF-8

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Prepared for

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Revision History

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Note:

- 1.This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
2. The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 22 H >< CFR 47 FCC PART 24 E>< CFR 47 FCC PART 27 >< CFR 47 FCC PART 90S > when < Simple Acceptance > decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Chengdu Shuiyueyu Technology Co.,Ltd.
4th Floor, Building 2, No. 606, West Section of Haike Road,
Address: Chengdu Cross-Strait Science and Technology Industrial
Development Park, Wenjiang District, Chengdu

Manufacturer Information

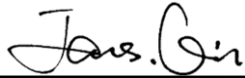
Company Name: Chengdu Shuiyueyu Technology Co.,Ltd.
4th Floor, Building 2, No. 606, West Section of Haike Road,
Address: Chengdu Cross-Strait Science and Technology Industrial
Development Park, Wenjiang District, Chengdu

EUT Information

EUT Name: MD-PH-001
Model: MD-PH-001
Brand: \
Sample Received Date: Mar. 21, 2024
Sample Status: Normal
Sample ID: 7236063
Date of Tested: March 22, 2024 to July 31, 2024

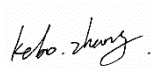
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 22 H	PASS
CFR 47 FCC PART 24 E	PASS
CFR 47 FCC PART 27	PASS
CFR 47 FCC PART 90S	PASS

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.26-2015, 971168 D01 Power Meas License Digital Systems v03r01, 971168 D02 Misc Rev Approv License Devices v02r01, 412172 D01 v01r01 Determining ERP and EIRP, CFR 47 FCC Part 2, Part 22 H, Part 24 E, Part 27, Part 90S.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p>ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p> <p>VCCI (Registration No.: G-20192, C-20153, T-20155 and R-20202) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20192 and R-20202. Shielding Room B, the VCCI registration No. is C-20153 and T-20155.</p>
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Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 40 GHz)	5.78 dB (1 GHz-18 GHz)
	5.23dB (18 GHz-26 GHz)
	5.64 dB (26 GHz-40 GHz)
Bandwidth	1.1 %
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.	

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name:	MD-PH-001
Model:	MD-PH-001

5.2. TEST CHANNEL CONFIGURATION

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 2	Low Range	1.4	18607	1850.7	607	1930.7
		3	18615	1851.5	615	1931.5
		5	18625	1852.5	625	1932.5
		10	18650	1855	650	1935
		15	18675	1857.5	675	1937.5
		20	18700	1860	700	1940
	Mid Range	1.4/3/5/10/15/20	18900	1880	900	1960
	High Range	1.4	19193	1909.3	1193	1989.3
		3	19185	1908.5	1185	1988.5
		5	19175	1907.5	1175	1987.5
		10	19150	1905	1150	1985
		15	19125	1902.5	1125	1982.5
		20	19100	1900	1100	1980

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 4	Low Range	1.4	19957	1710.7	1957	2110.7
		3	19965	1711.5	1965	2111.5
		5	19975	1712.5	1975	2112.5
		10	20000	1715	2000	2115
		15	20025	1717.5	2025	2117.5
		20	20050	1720	2050	2120
	Mid Range	1.4/3/5/10/15/20	20175	1732.5	2175	2132.5
	High Range	1.4	20393	1754.3	2393	2154.3
		3	20385	1753.5	2385	2153.5
		5	20375	1752.5	2375	2152.5
		10	20350	1750	2350	2150
		15	20325	1747.5	2325	2147.5
		20	20300	1745	2300	2145

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
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Band 5	Low Range	1.4	20407	824.7	2407	869.7
		3	20415	825.5	2415	870.5
		5	20425	826.5	2425	871.5
		10	20450	829	2450	874
	Mid Range	1.4/3/5/10	20525	836.5	2525	881.5
	High Range	1.4	20643	848.3	2643	893.3
		3	20635	847.5	2635	892.5
		5	20625	846.5	2625	891.5
10		20600	844	2600	889	

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 7	Low Range	5	20775	2502.5	2775	2622.5
		10	20800	2505	2800	2625
		15	20825	2507.5	2825	2627.5
		20	20850	2510	2850	2630
	Mid Range	5/10/15/20	21100	2535	3100	2655
	High Range	5	21425	2567.5	3425	2687.5
		10	21400	2565	3400	2685
		15	21375	2562.5	3375	2682.5
20		21350	2560	3350	2680	

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 12	Low Range	1.4	23017	699.7	5017	729.7
		3	23025	700.5	5025	730.5
		5	23035	701.5	5035	731.5
		10	23060	704	5060	734
	Mid Range	1.4/3/5 /10	23095	707.5	5095	737.5
	High Range	1.4	23173	715.3	5173	745.3
		3	23165	714.5	5165	744.5
		5	23155	713.5	5155	743.5
10		23130	711	5130	741	

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 13	Low Range	5	23205	779.5	5205	748.5
		10	23230	782	5230	751
	Mid Range	5/10	23230	782	5230	751
	High Range	5	23255	784.5	5255	753.5
		10	23230	782	5230	751

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 25	Low Range	1.4	26047	1850.7	8047	1930.7
		3	26055	1851.5	8055	1931.5
		5	26065	1852.5	8065	1932.5
		10	26090	1855	8090	1935
		15	26115	1857.5	8115	1937.5
		20	26140	1860	8140	1940
	Mid Range	1.4/3/5/10/15/20	26365	1882.5	8365	1962.5
	High Range	1.4	26683	1914.3	8683	1994.3
		3	26675	1913.5	8675	1993.5
		5	26665	1912.5	8665	1992.5
		10	26640	1910	8640	1990
		15	26615	1907.5	8615	1987.5
		20	26590	1905	8590	1985

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 26	Low Range	1.4	26697	814.7	8697	859.7
		3	26705	815.5	8705	860.5
		5	26715	816.5	8715	861.5
		10	26740	819	8740	864
		15	26765	821.5	8765	866.5
	Mid Range	1.4/3/5/10/15	26865	831.5	8865	876.5
	High Range	1.4	27033	848.3	9033	893.3
		3	27025	847.5	9025	892.5
		5	27015	846.5	9015	891.5
		10	26990	844	8990	889
		15	26965	841.5	8965	886.5

Band	Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
Band 41	Low Range	5	39675	2498.5
		10	39700	2501
		15	39725	2503.5
		20	39750	2506
	Mid Range	5/10/15/20	40620	2593
	High Range	5	41565	2687.5
		10	41540	2685
		15	41515	2682.5
		20	41490	2680

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 66	Low Range	1.4	131979	1710.7	66443	2110.7
		3	131987	1711.5	66451	2111.5
		5	131997	1712.5	66461	2112.5
		10	132022	1715	66486	2115
		15	132047	1717.5	66511	2117.5
		20	132072	1720	66536	2120
	Mid Range Tx ¹	1.4/3/5/10/15/20	132322	1745	66786	2145
	Mid Range	1.4/3/5/10/15/20	132422	1755	66886	2155
	Paired High Range ²	1.4	132665	1779.3	67129	2179.3
		3	132657	1778.5	67121	2178.5
		5	132647	1777.5	67111	2177.5
		10	132622	1775	67086	2175
		15	132597	1772.5	67061	2172.5
		20	132572	1770	67036	2170
	High Range ³	1.4	NA	NA	67329	2199.3
		3	NA	NA	67321	2198.5
		5	NA	NA	67311	2197.5
		10	NA	NA	67286	2195
		15	NA	NA	67261	2192.5
		20	NA	NA	67236	2190

Note 1: Applicable for transmitter testing.

Note 2: Applicable if UL is configured on the CC.

Note 3: Applicable if no UL is configured on the CC.

5.3. MAXIMUM AVERAGE OUTPUT POWER

LTE Band 2

Part 24							
EIRP Limit(W)		2.0					
Antenna Gain (dBi)		0.78					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	1850.7	1909.3	22.82	0.229	1.095	1M10G7W
	16QAM			22.37	0.207	1.1	1M10D7W
3	QPSK	1851.5	1908.5	22.92	0.234	2.696	2M70G7W
	16QAM			22.33	0.205	2.685	2M69D7W
5	QPSK	1852.5	1907.5	22.88	0.232	4.502	4M50G7W
	16QAM			22.29	0.203	4.495	4M50D7W
10	QPSK	1855.0	1905.0	22.77	0.226	8.992	9M00G7W
	16QAM			22.41	0.208	8.986	8M99D7W
15	QPSK	1857.5	1902.5	22.96	0.237	13.494	13M5G7W
	16QAM			22.32	0.204	13.48	13M5D7W
20	QPSK	1860.0	1900.0	22.81	0.229	18.028	18M0G7W
	16QAM			22.30	0.203	18.072	18M1D7W

LTE Band 5

Part 22H							
ERP Limit(W)		7.0					
Antenna Gain (dBi)		-0.23					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	824.7	848.3	23.42	0.127	1.097	1M10G7W
	16QAM			22.46	0.102	1.1	1M10D7W
3	QPSK	825.5	847.5	23.50	0.129	2.696	2M70G7W
	16QAM			22.37	0.100	2.688	2M69D7W
5	QPSK	826.5	846.5	23.38	0.126	4.501	4M50G7W
	16QAM			22.39	0.100	4.495	4M50D7W
10	QPSK	829	844	23.35	0.125	8.999	9M00G7W
	16QAM			22.32	0.099	8.986	9M00D7W

LTE Band 7

Part 27							
EIRP Limit(W)		2.0					
Antenna Gain (dBi)		-0.82					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	2502.5	2567.5	21.27	0.162	4.505	4M51G7W
	16QAM			20.42	0.133	4.512	4M51D7W
10	QPSK	2505	2565	21.18	0.158	8.988	8M99G7W
	16QAM			20.37	0.132	8.98	8M98D7W
15	QPSK	2507.5	2562.5	21.32	0.164	13.474	13M5G7W
	16QAM			20.41	0.133	13.486	13M5D7W
20	QPSK	2510	2560	21.17	0.158	18.00	18M0G7W
	16QAM			20.40	0.132	17.978	18M0D7W

LTE Band 12

Part 27							
ERP Limit(W)		3.0					
Antenna Gain (dBi)		-0.37					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	699.7	715.3	23.50	0.125	1.096	1M10G7W
	16QAM			22.64	0.103	1.100	1M10D7W
3	QPSK	700.5	714.5	23.44	0.124	2.696	2M70G7W
	16QAM			22.48	0.099	2.694	2M70D7W
5	QPSK	701.5	713.5	23.44	0.124	4.505	4M51G7W
	16QAM			22.50	0.100	4.513	4M51D7W
10	QPSK	704.0	711.0	23.49	0.125	8.991	9M00G7W
	16QAM			22.49	0.099	8.986	8M99D7W

LTE Band 38

Part 27							
EIRP Limit(W)		2.0					
Antenna Gain (dBi)		0.81					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	2572.5	2617.5	22.12	0.196	4.5	4M50G7W
	16QAM			20.86	0.147	4.498	4M50D7W
10	QPSK	2575	2615	22.07	0.194	9.002	9M00G7W
	16QAM			20.69	0.141	8.98	8M98D7W
15	QPSK	2577.5	2612.5	22.05	0.193	13.521	13M5G7W
	16QAM			20.79	0.145	13.488	13M5D7W
20	QPSK	2580	2610	22.03	0.192	18.043	18M0G7W
	16QAM			20.73	0.143	18.009	18M0D7W

LTE Band 41

Part 27							
EIRP Limit(W)		2.0					
Antenna Gain (dBi)		-0.81					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	2498.5	2687.5	21.89	0.186	4.498	4M50G7W
	16QAM			20.90	0.148	4.497	4M50D7W
10	QPSK	2501	2685	21.96	0.189	8.997	9M00G7W
	16QAM			20.89	0.148	8.998	9M00D7W
15	QPSK	2503.5	2682.5	21.85	0.185	13.499	13M5G7W
	16QAM			20.82	0.146	13.501	13M5D7W
20	QPSK	2506	2680	21.84	0.184	18.037	18M0G7W
	16QAM			20.88	0.148	17.991	18M0D7W

LTE Band 66

Part 27							
EIRP Limit(W)		1.0					
Antenna Gain (dBi)		0.75					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	1710.7	1779.3	22.65	0.219	1.097	1M10G7W
	16QAM			21.51	0.168	1.096	1M10D7W
3	QPSK	1711.5	1778.5	22.49	0.211	2.699	2M70G7W
	16QAM			21.47	0.167	2.684	2M68D7W
5	QPSK	1712.5	1777.5	22.56	0.214	4.501	4M50G7W
	16QAM			21.46	0.166	4.494	4M49D7W
10	QPSK	1715	1775	22.66	0.219	8.993	8M99G7W
	16QAM			21.42	0.165	8.992	8M99D7W
15	QPSK	1717.5	1772.5	22.67	0.220	13.516	13M5G7W
	16QAM			21.46	0.166	13.494	13M5D7W
20	QPSK	1720	1770	22.55	0.214	18.049	18M0G7W
	16QAM			21.39	0.164	18.091	18M1D7W

5.4. WORST-CASE CONFIGURATION AND MODE

During all testing, EUT is in link mode with base station emulator at maximum power level. The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on QPSK, 16QAM. All testing was performed using QPSK and 16QAM modulations to represent the worst case.

The radiated spurious emissions measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT was investigated in three orthogonal orientations X,Y and Z. It was determined that X orientation was the worst-case.

Radiated spurious emissions were investigated below 30 MHz, 30 MHz - 1 GHz and above 1 GHz. There are no emissions found on below 1GHz and above 18 GHz, the emissions between 1 GHz – 18 GHz are tested at the low, mid, high channel and the worse configuration.

Test Items	Worst case test configuration			
Description	Modulation	Channel	Bandwidth (MHz)	RB Configuration
Radiated Spurious Emissions	QPSK	L, M, H	Maximum BW	RB size=1, RB Location=Low

5.5. DESCRIPTION OF AVAILABLE ANTENNAS

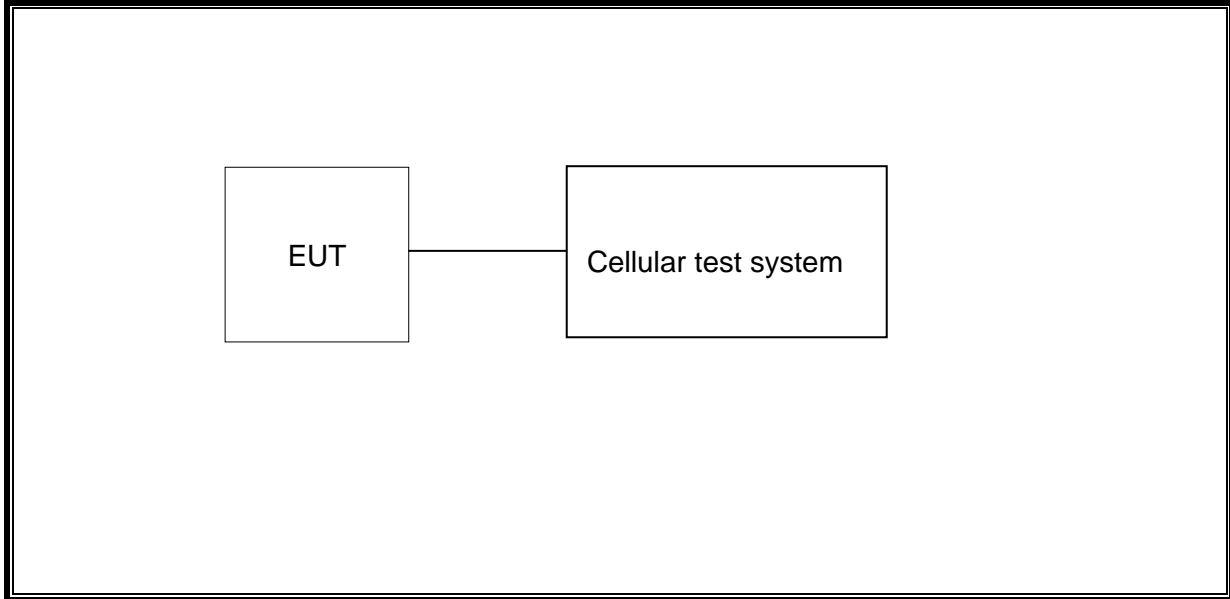
Antenna	Band	Antenna Type	MAX Antenna Gain (dBi)
Ant0	LTE Band 2	LDS	0.78
Ant0	LTE Band 4	LDS	0.75
Ant0	LTE Band 5	LDS	-0.23
Ant0	LTE Band 7	LDS	0.82
Ant0	LTE Band 12	LDS	-0.37
Ant0	LTE Band 17	LDS	-0.37
Ant0	LTE Band 38	LDS	0.81
Ant3	LTE Band 41	LDS	0.81
Ant0	LTE Band 66	LDS	0.75

Band	Transmit and Receive Mode	Description
LTE Band 2	<input checked="" type="checkbox"/> 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 4	<input checked="" type="checkbox"/> 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 5	<input checked="" type="checkbox"/> 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 7	<input checked="" type="checkbox"/> 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 12	<input checked="" type="checkbox"/> 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 17	<input checked="" type="checkbox"/> 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 38	<input checked="" type="checkbox"/> 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 41	<input checked="" type="checkbox"/> 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 66	<input checked="" type="checkbox"/> 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna

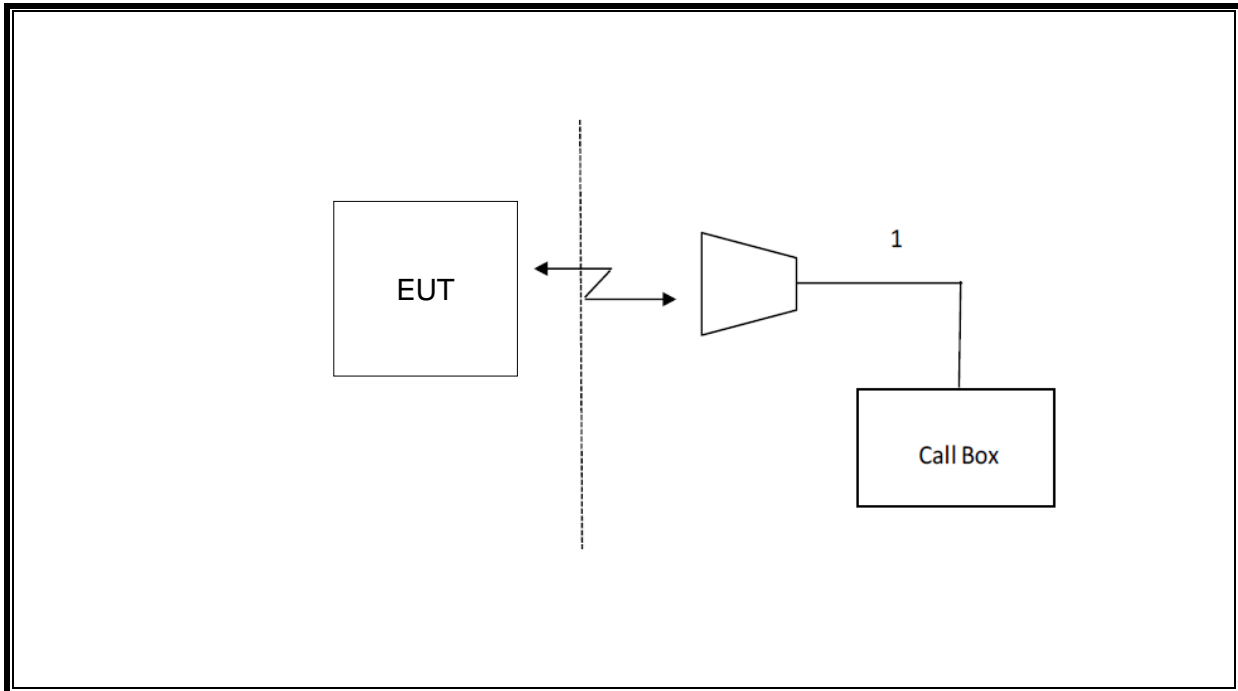
Note: The value of the antenna gain was declared by customer.

5.6. DESCRIPTION OF TEST SETUP

Conducted



Radiated



6. MEASURING INSTRUMENT AND SOFTWARE USED

Antenna Terminal Test						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	Spectrum Analyzer	R&S	FSV40	S422060001	Oct.12, 2023	Oct.11, 2024
<input checked="" type="checkbox"/>	Wideband Radio Communication Tester	R&S	CMW500	155523	Oct.12, 2023	Oct.11, 2024
<input checked="" type="checkbox"/>	DC Power Supply	Array	3662A	A1512015	Oct.12, 2023	Oct.11, 2024
Software						
Used	Description	Manufacturer	Name	Version		
<input checked="" type="checkbox"/>	Tonsend Cellular Test System	Tonsend	JS1120 RF Auto Test System	3.1.46		
Radiated Test						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.12, 2023	Oct.11, 2024
<input checked="" type="checkbox"/>	Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
<input checked="" type="checkbox"/>	Preamplifier	HP	8447D	2944A09099	Oct.12, 2023	Oct.11, 2024
<input checked="" type="checkbox"/>	EMI Measurement Receiver	R&S	ESR26	101377	Oct.12, 2023	Oct.11, 2024
<input checked="" type="checkbox"/>	Horn Antenna	TDK	HRN-0118	130939	April 29, 2022	April 30, 2025
<input checked="" type="checkbox"/>	Horn Antenna	Schwarzbeck	BBHA9170	856	Feb 28, 2022	Feb 28, 2025
<input checked="" type="checkbox"/>	Preamplifier	TDK	PA-02-0118	TRS-305-00067	Oct.12, 2023	Oct.11, 2024
<input checked="" type="checkbox"/>	Preamplifier	TDK	PA-02-2	TRS-307-00003	Oct.12, 2023	Oct.11, 2024
<input checked="" type="checkbox"/>	Loop antenna	Schwarzbeck	1519B	00008	Dec.14, 2021	Dec.13, 2024
<input checked="" type="checkbox"/>	High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Oct.12, 2023	Oct.11, 2024
Software						
Used	Description	Manufacturer	Name	Version		
<input checked="" type="checkbox"/>	Test Software for Radiated disturbance	Farad	EZ-EMC	Ver. UL-3A1		

7. ANTENNA TERMINAL TEST RESULTS

7.1. EFFECTIVE (ISOTROPIC) RADIATED POWER OF TRANSMITTER

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27.50

LIMITS

22.913(a) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

24.232(c) Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

27.50(c) Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

27.50(d) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watts EIRP.

27.50(h) Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

TEST PROCEDURE

Refer to ANSI C63.26:2015 and KDB 971168 D01 Section 5.6

$ERP/ EIRP = P_{Meas} + GT - LC$

where:

ERP or EIRP = effective or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

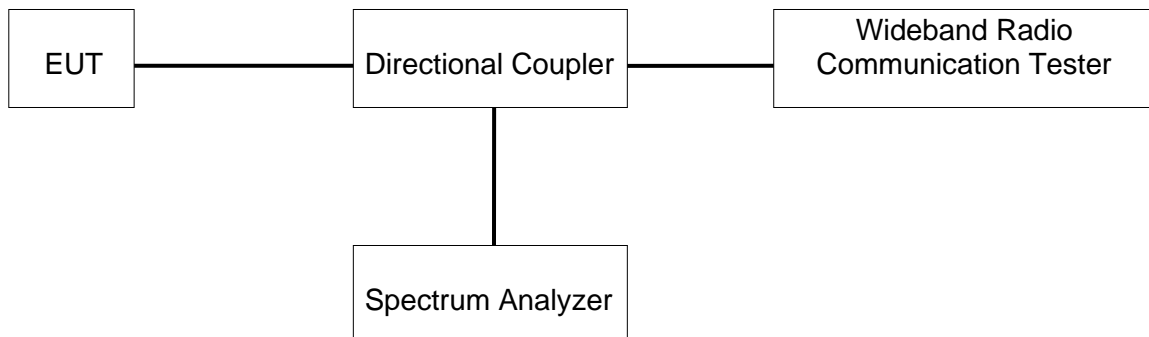
P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB

The transmitter has a maximum radiated ERP / EIRP output powers as follows:

TEST SETUP



TEST ENVIRONMENT

Temperature	23.8°C	Relative Humidity	63.4%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.87 V

RESULTS

Please refer to Appendix A.

7.2. PEAK TO AVERAGE RADIO

LIMITS

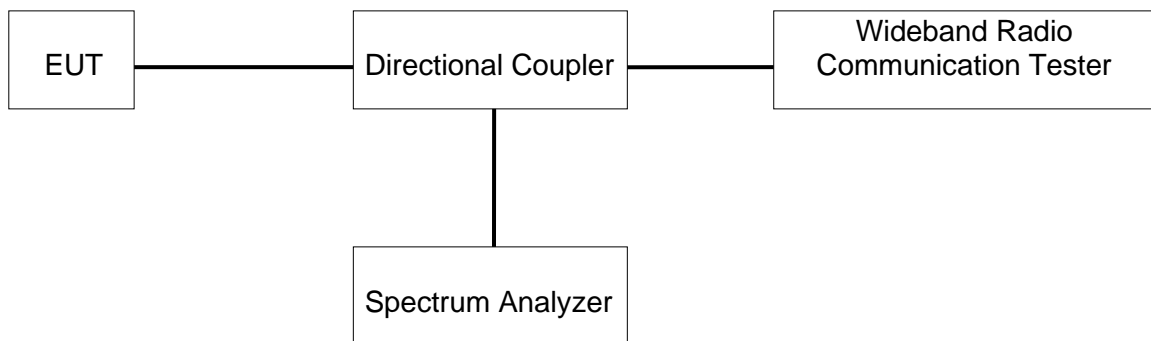
In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01;

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The PAR was measured on the Spectrum Analyzer.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.8°C	Relative Humidity	63.4%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.87 V

RESULTS

Middle was used to measure as the worst case. The results from all CCDF plots are passed with 13dB peak-to-average power ratio criteria.

Please refer to Appendix B.

7.3. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

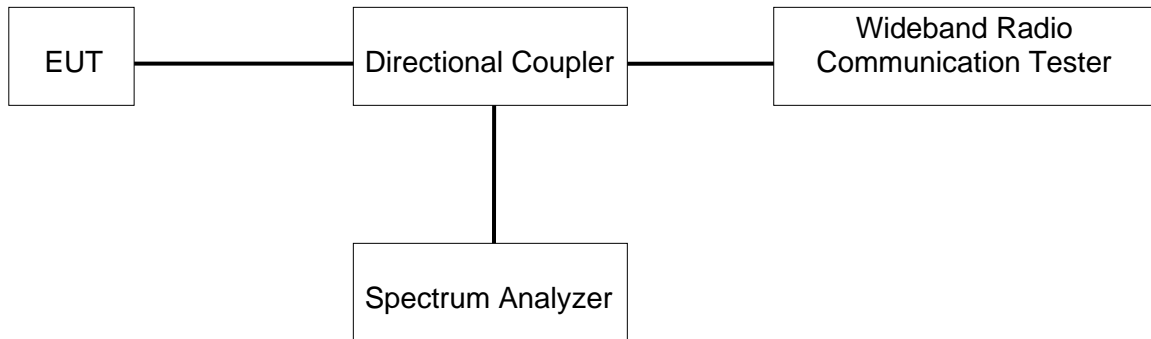
For reporting purposes only.

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

(Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01)

TEST SETUP



TEST ENVIRONMENT

Temperature	23.8°C	Relative Humidity	63.4%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.87 V

RESULTS

There is no limit required and power is the same for low, middle and high channel, therefore, only middle channel was tested.

Please refer to Appendix C.

7.4. BAND EDGE EMISSIONS

RULE PART(S)

FCC §2.1051, §22.917, §24.238, §27.53

LIMITS

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.

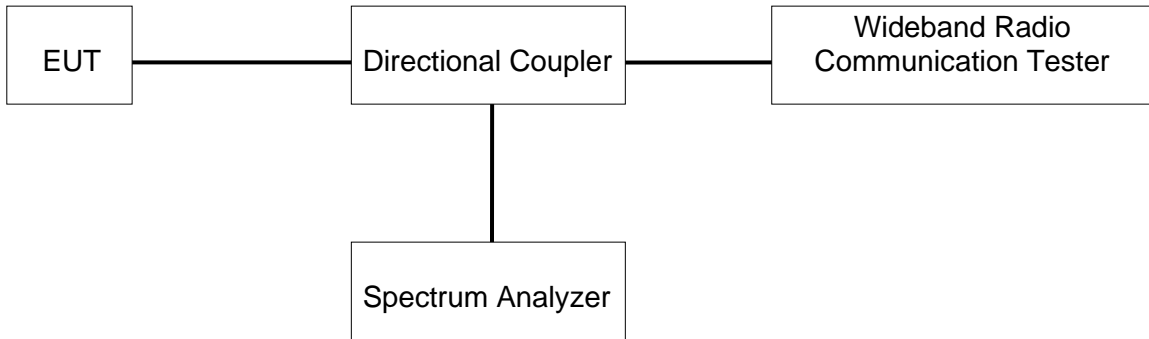
TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

- a) Set the RBW = 1 ~ 1.5 % of OBW (Typically limited to a minimum RBW of 1% of the OBW)
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = Auto;
- e) Detector = RMS;
- f) Ensure that the number of measurement points $\geq 2 \times$ Span/RBW;
- g) Trace mode = Average (100);

TEST SETUP



TEST ENVIRONMENT

Temperature	23.8°C	Relative Humidity	63.4%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.87 V

RESULTS

Please refer to Appendix D.

7.5. SPURIOUS EMISSION AT ANTENNA TERMINAL

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53

LIMITS

FCC: §22.901, §22.917, §24.238

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.

TEST PROCEDURE

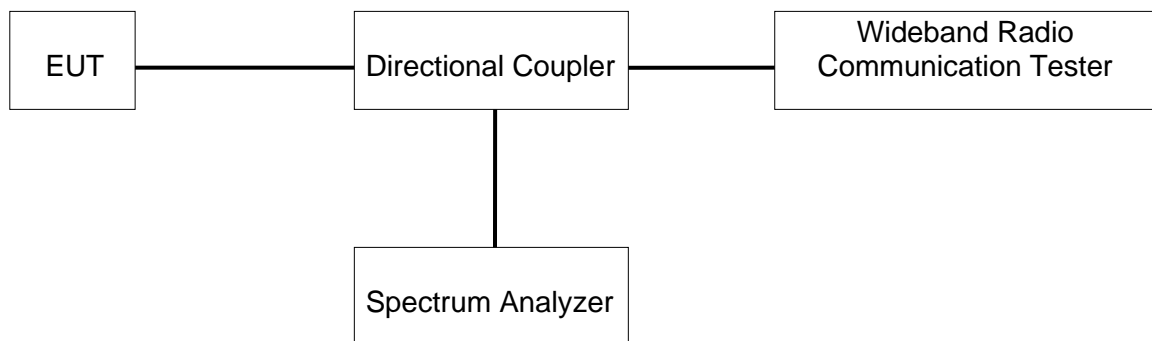
Per KDB 971168 D01 Power Meas License Digital Systems v03r01

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

- a) Set the RBW = 100 kHz for emission below 1GHz and 1MHz for emissions above 1GHz (Tests were performed 1 MHz [Worst case], to sweep 1 time for all frequency range)
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points = Max (40001);
- g) Trace mode = average (LTE 5), Maxhold (LTE Band7);

Note: Please refer to section 5.4 for bandwidth and RB setting about LTE bands.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.8°C	Relative Humidity	63.4%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.87 V

RESULTS

Please refer to Appendix E.

7.6. FREQUENCY STABILITY

Rule Part:

FCC: §2.1055, §22.355, §24.235, §27.54

LIMITS

§22.355 - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

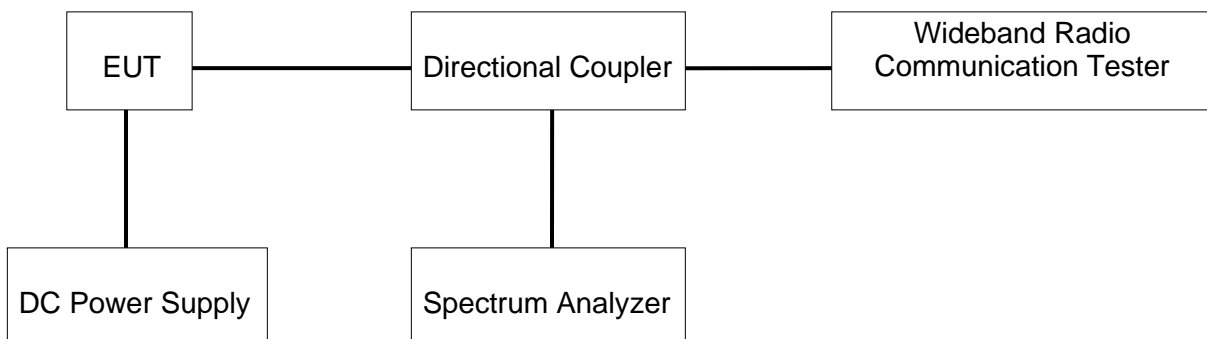
§24.235 and §27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

	Normal Test Conditions	Extreme Test Conditions
Relative Humidity	45 % - 75 %	/
Atmospheric Pressure	100 kPa ~102 kPa	/
Temperature	T _N (Normal Temperature): 24.7 °C	T _L (Low Temperature): -30 °C T _H (High Temperature): 50 °C
Supply Voltage	V _N (Normal Voltage): DC 3.87 V	V _L (Low Voltage): DC 6.1V V _H (High Voltage): DC 8.3 V

TEST SETUP



RESULTS

The peak frequency error is recorded (worst-case).

Please refer to Appendix F.

8. APPENDIX

8.1. Appendix A: Effective (Isotropic) Radiated Power Output Data

8.1.1. LTE Band 2

LTE FDD B2				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18607	18900	19193
1.4MHz	QPSK	1	0	21.89	22.57	22.54
		1	2	22.32	22.82	22.69
		1	5	22.64	22.78	22.27
		3	0	21.85	22.62	22.52
		3	1	22.41	22.78	22.67
		3	3	22.62	22.76	22.43
	16QAM	6	0	20.88	21.87	21.31
		1	0	21.07	21.63	21.58
		1	2	21.31	21.83	21.15
		1	5	21.09	21.73	21.30
		3	0	21.22	22.05	21.86
		3	1	21.60	22.20	22.05
		3	3	21.98	22.37	21.87
		6	0	19.96	20.71	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18615	18900	19185
3MHz	QPSK	1	0	21.81	22.47	22.60
		1	8	22.45	22.92	22.61
		1	14	22.54	22.69	22.43
		8	0	20.93	21.85	21.38
		8	4	21.11	21.57	21.57
		8	7	21.45	21.72	21.32
		15	0	21.07	21.74	21.45
	16QAM	1	0	21.40	22.13	21.97
		1	8	21.56	22.15	22.13
		1	14	21.97	22.33	21.61
		8	0	20.01	20.81	20.23
		8	4	20.26	20.72	20.60
		8	7	20.33	20.87	20.31
		15	0	20.04	20.63	20.31
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18625	18900	19175
5MHz	QPSK	1	0	21.79	22.66	22.63
		1	12	22.26	22.88	22.49
		1	24	22.59	22.83	22.23

		12	0	21.05	21.77	21.31
		12	6	21.25	21.65	21.69
		12	13	21.38	21.71	21.15
		25	0	21.26	21.88	21.50
	16QAM	1	0	21.49	22.01	21.85
		1	12	21.65	22.29	21.96
		1	24	22.04	22.13	21.83
		12	0	20.13	20.88	20.34
		12	6	20.07	20.79	20.55
		12	13	20.43	20.82	20.12
		25	0	20.21	20.72	20.22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18650	18900	19150
10MHz	QPSK	1	0	21.82	22.58	22.66
		1	24	22.32	22.76	22.77
		1	49	22.47	22.68	22.39
		25	0	21.12	21.75	21.39
		25	12	21.13	21.80	21.48
		25	25	21.50	21.86	21.25
		50	0	21.01	21.75	21.52
	16QAM	1	0	21.38	22.16	21.83
		1	24	21.77	22.41	21.93
		1	49	21.99	22.36	21.82
		25	0	19.93	20.74	20.25
		25	12	20.07	20.80	20.61
		25	25	20.42	20.69	20.18
		50	0	20.10	20.68	20.46
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18675	18900	19125
15MHz	QPSK	1	0	22.05	22.49	22.45
		1	38	22.35	22.96	22.64
		1	74	22.51	22.74	22.41
		36	0	20.93	21.69	21.44
		36	18	21.35	21.59	21.73
		36	37	21.27	21.81	21.27
		75	0	21.24	21.73	21.52
	16QAM	1	0	21.49	22.19	22.04
		1	38	21.62	22.32	21.94
		1	74	21.90	22.19	21.82
		36	0	19.99	20.85	20.37
		36	18	20.15	20.62	20.46
		36	37	20.28	20.83	20.21
		75	0	20.03	20.64	20.29

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18700	18900	19100
20MHz	QPSK	1	0	21.91	22.56	22.59
		1	49	22.35	22.81	22.63
		1	99	22.59	22.71	22.35
		50	0	20.98	21.80	21.44
		50	25	21.21	21.72	21.58
		50	50	21.35	21.77	21.29
		100	0	21.16	21.74	21.38
	16QAM	1	0	21.36	22.09	21.98
		1	49	21.70	22.30	22.03
		1	99	21.97	22.23	21.76
		50	0	19.98	20.78	20.38
		50	25	20.20	20.73	20.54
		50	50	20.31	20.77	20.23
		100	0	20.12	20.72	20.35

8.1.2. LTE Band 5

LTE FDD B5				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20407	20525	20643
1.4MHz	QPSK	1	0	23.41	23.28	23.29
		1	2	23.34	23.14	23.41
		1	5	23.41	23.38	23.42
		3	0	23.42	23.40	23.33
		3	1	23.24	23.29	23.29
		3	3	23.41	23.25	23.22
		6	0	22.37	22.07	22.32
	16QAM	1	0	22.18	22.11	22.36
		1	2	22.26	22.38	22.00
		1	5	22.25	22.23	22.31
		3	0	22.34	22.39	22.32
		3	1	22.13	22.28	22.46
		3	3	22.40	22.27	22.12
		6	0	21.33	20.96	21.32
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20415	20525	20635
3MHz	QPSK	1	0	23.24	23.20	23.33
		1	8	23.44	23.21	23.50
		1	14	23.29	23.20	23.30
		8	0	22.12	22.19	22.27
		8	4	22.22	22.25	22.42
		8	7	22.27	22.15	22.10
		15	0	22.39	22.34	22.18
	16QAM	1	0	22.19	22.37	22.14
		1	8	22.17	22.23	22.22
		1	14	22.15	22.25	22.21
		8	0	21.06	20.99	21.46
		8	4	21.32	21.17	21.24
		8	7	21.16	21.23	21.25
		15	0	21.35	21.25	21.17
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20425	20525	20625
5MHz	QPSK	1	0	23.28	23.26	23.38
		1	12	23.35	23.18	23.26
		1	24	23.30	23.31	23.29
		12	0	22.26	22.23	22.45
		12	6	22.36	22.05	22.28
		12	13	22.23	22.22	22.21

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20450	20525	20600
10MHz	16QAM	25	0	22.27	22.28	22.13
		1	0	22.29	22.39	22.18
		1	12	22.25	22.13	22.25
		1	24	22.13	22.33	22.11
		12	0	21.25	21.07	21.25
		12	6	21.31	21.08	21.20
		12	13	21.29	21.21	21.18
	25	0	21.07	21.30	21.08	
	QPSK	1	0	23.27	23.29	23.28
		1	24	23.34	23.27	23.35
		1	49	23.29	23.29	23.27
		25	0	22.23	22.13	22.33
		25	12	22.21	22.14	22.36
		25	25	22.26	22.29	22.15
50		0	22.29	22.24	22.28	
16QAM	1	0	22.19	22.25	22.26	
	1	24	22.28	22.28	22.32	
	1	49	22.26	22.28	22.25	
	25	0	21.18	21.09	21.31	
	25	12	21.19	21.10	21.28	
	25	25	21.23	21.28	21.11	
	50	0	21.20	21.19	21.22	

8.1.3. LTE Band 7

LTE FDD B7				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20775	21100	21425
5MHz	QPSK	1	0	21.21	21.14	20.98
		1	12	21.27	20.96	21.1
		1	24	21.01	20.94	20.99
		12	0	20.33	20.05	19.78
		12	6	20.27	19.81	20.03
		12	13	20.01	19.92	19.89
		25	0	20.17	19.79	19.88
	16QAM	1	0	20.42	19.65	19.57
		1	12	20.25	19.81	19.86
		1	24	20.03	19.75	19.78
		12	0	19.29	18.96	18.9
		12	6	19.15	18.82	18.93
		12	13	19.1	18.68	18.97

Bandwidth	Modulation	25	0	19.26	18.89	18.97
		RB size	RB offset	Channel 20800	Channel 21100	Channel 21400
10MHz	QPSK	1	0	21.18	20.91	20.71
		1	24	21.04	21	20.87
		1	49	20.96	20.94	20.93
		25	0	20.37	19.94	19.92
		25	12	20.36	19.93	19.84
		25	25	20.18	19.84	19.78
		50	0	20.14	20.01	19.88
	16QAM	1	0	20.37	19.85	19.74
		1	24	20.27	20	19.97
		1	49	20.11	19.83	19.76
		25	0	19.26	19.03	18.8
		25	12	19.35	18.95	19.02
		25	25	19.07	18.78	19
		50	0	19.14	18.69	18.97
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20825	21100	21375
15MHz	QPSK	1	0	21.17	21.06	20.86
		1	38	21.32	21.14	20.84
		1	74	20.98	20.81	21.19
		36	0	20.09	19.92	19.81
		36	18	20.2	19.95	19.85
		36	37	20.18	19.78	19.84
		75	0	20.28	19.78	19.86
	16QAM	1	0	20.41	19.81	19.71
		1	38	20.22	19.79	19.94
		1	74	20.26	19.6	19.96
		36	0	19.14	18.83	19.01
		36	18	19.32	18.89	18.99
		36	37	19.19	18.9	18.94
		75	0	19.26	18.68	18.71
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20850	21100	21350
20MHz	QPSK	1	0	21.13	20.99	20.83
		1	49	21.17	21.08	20.99
		1	99	20.95	20.95	21.07
		50	0	20.23	19.92	19.91
		50	25	20.24	19.93	19.91
		50	50	20.11	19.85	19.89
		100	0	20.16	19.88	19.9
	16QAM	1	0	20.4	19.77	19.65

	1	49	20.36	19.85	19.83
	1	99	20.17	19.71	19.82
	50	0	19.24	18.92	18.86
	50	25	19.24	18.93	18.88
	50	50	19.14	18.83	18.91
	100	0	19.15	18.83	18.86

8.1.4. LTE Band 12

LTE FDD B12			Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23017	23095	23173
1.4MHz	QPSK	1	0	23.29	23.24	23.40
		1	2	23.25	23.48	23.44
		1	5	23.39	23.45	23.42
		3	0	23.50	23.15	23.29
		3	1	23.20	23.26	23.26
		3	3	23.40	23.18	23.38
	16QAM	6	0	22.22	22.36	22.15
		1	0	22.13	22.13	22.12
		1	2	22.41	22.43	22.27
		1	5	22.24	22.48	22.21
		3	0	22.50	22.19	22.16
		3	1	22.25	22.31	22.22
		3	3	22.36	22.28	22.64
		6	0	21.39	21.17	21.06
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23025	23095	23165
3MHz	QPSK	1	0	23.32	23.26	23.35
		1	8	23.30	23.28	23.34
		1	14	23.33	23.40	23.44
		8	0	22.32	22.34	22.25
		8	4	22.37	22.12	22.30
		8	7	22.24	22.30	22.16
		15	0	22.30	22.44	22.41
	16QAM	1	0	22.48	22.27	22.37
		1	8	22.40	22.18	22.45
		1	14	22.47	22.26	22.42
		8	0	21.14	21.25	21.11
		8	4	21.20	21.12	21.22
		8	7	21.33	21.22	21.08
		15	0	21.23	21.17	21.10
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel

				23035	23095	23155
5MHz	QPSK	1	0	23.44	23.21	23.29
		1	12	23.35	23.37	23.30
		1	24	23.26	23.25	23.42
		12	0	22.23	22.38	22.32
		12	6	22.33	22.12	22.27
		12	13	22.37	22.40	22.28
		25	0	22.47	22.21	22.21
	16QAM	1	0	22.50	22.21	22.41
		1	12	22.36	22.16	22.34
		1	24	22.41	22.19	22.43
		12	0	21.36	21.41	21.20
		12	6	21.39	21.13	21.36
		12	13	21.32	21.32	21.23
		25	0	21.20	21.19	21.25
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23060	23095	23130
10MHz	QPSK	1	0	23.42	23.29	23.30
		1	24	23.33	23.37	23.41
		1	49	23.38	23.31	23.49
		25	0	22.28	22.25	22.27
		25	12	22.27	22.25	22.26
		25	25	22.34	22.32	22.26
		50	0	22.37	22.33	22.30
	16QAM	1	0	22.38	22.15	22.28
		1	24	22.32	22.22	22.36
		1	49	22.32	22.16	22.49
		25	0	21.26	21.26	21.24
		25	12	21.25	21.25	21.22
		25	25	21.30	21.34	21.19
		50	0	21.31	21.32	21.25

8.1.5. LTE Band 38

LTE FDD B38				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37775	38000	38225
5MHz	QPSK	1	0	22.07	22.12	21.64
		1	12	22.09	21.84	21.59
		1	24	21.75	21.57	21.41
		12	0	21.29	20.97	20.5
		12	6	21.17	20.81	20.62
		12	13	21.17	20.63	20.55
		25	0	21.3	20.87	20.63

	16QAM	1	0	20.62	20.63	20.56
		1	12	20.86	20.63	20.62
		1	24	20.44	20.18	20.43
		12	0	20.12	19.81	19.76
		12	6	20.22	19.81	19.64
		12	13	20.1	19.82	19.54
		25	0	20.22	19.71	19.77
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37800	38000	38200
10MHz	QPSK	1	0	21.92	21.9	21.55
		1	24	22.07	21.89	21.31
		1	49	21.8	21.63	21.36
		25	0	21.17	21.08	20.51
		25	12	21.32	20.84	20.56
		25	25	21.01	20.66	20.58
		50	0	21.22	20.79	20.59
	16QAM	1	0	20.69	20.48	20.67
		1	24	20.66	20.54	20.56
		1	49	20.33	20.32	20.31
		25	0	20.07	19.86	19.82
		25	12	20.13	19.92	19.79
		25	25	20.14	19.86	19.59
		50	0	20.17	19.74	19.51
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37825	38000	38175
15MHz	QPSK	1	0	21.87	22.05	21.39
		1	38	22	21.98	21.39
		1	74	21.62	21.74	21.32
		36	0	21.22	20.96	20.62
		36	18	21.36	21.08	20.67
		36	37	21.2	20.8	20.58
		75	0	21.23	20.97	20.5
	16QAM	1	0	20.79	20.78	20.61
		1	38	20.71	20.59	20.57
		1	74	20.5	20.27	20.24
		36	0	20.31	19.99	19.61
		36	18	20.14	19.74	19.7
		36	37	20.07	19.74	19.59
		75	0	20.04	19.68	19.54
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				37850	38000	38150
20MHz	QPSK	1	0	22.02	21.98	21.52
		1	49	22.03	21.96	21.46

		1	99	21.77	21.59	21.36
		50	0	21.23	20.96	20.55
		50	25	21.22	20.96	20.53
		50	50	21.1	20.73	20.47
		100	0	21.19	20.85	20.49
	16QAM	1	0	20.73	20.63	20.54
		1	49	20.72	20.6	20.5
		1	99	20.42	20.2	20.37
		50	0	20.21	19.91	19.69
		50	25	20.22	19.89	19.68
		50	50	20.12	19.85	19.61
		100	0	20.16	19.82	19.63

8.1.6. LTE Band 41

LTE FDD B41				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39675	40620	41565
5MHz	QPSK	1	0	21.55	21.55	21.45
		1	12	21.85	21.53	21.18
		1	24	21.89	20.98	20.71
		12	0	20.73	20.55	20.59
		12	6	20.88	20.57	20.46
		12	13	20.84	20.37	20.3
		25	0	20.95	20.38	20.41
	16QAM	1	0	20.8	20.48	20.09
		1	12	20.73	20.52	19.83
		1	24	20.9	19.97	19.38
		12	0	19.92	19.51	19.49
		12	6	19.88	19.65	19.53
		12	13	19.74	19.3	19.1
		25	0	19.72	19.38	19.22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39700	40620	41540
10MHz	QPSK	1	0	21.79	21.38	21.51
		1	24	21.76	21.35	21.03
		1	49	21.96	21.05	20.73
		25	0	20.73	20.56	20.33
		25	12	20.75	20.49	20.47
		25	25	21.02	20.28	20.13
		50	0	21	20.28	20.4
	16QAM	1	0	20.84	20.41	19.82
		1	24	20.78	20.54	19.96

		1	49	20.89	20.06	19.62
		25	0	19.83	19.46	19.53
		25	12	19.77	19.64	19.8
		25	25	19.98	19.48	19.31
		50	0	19.89	19.56	19.4
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39725	40620	41515
15MHz	QPSK	1	0	21.62	21.52	21.39
		1	38	21.82	21.41	21.09
		1	74	21.85	21.13	20.72
		36	0	20.79	20.44	20.43
		36	18	20.81	20.32	20.53
		36	37	20.94	20.42	20.19
		75	0	20.81	20.45	20.31
	16QAM	1	0	20.82	20.48	19.82
		1	38	20.82	20.5	19.81
		1	74	20.75	19.99	19.44
		36	0	19.94	19.74	19.52
		36	18	19.92	19.52	19.67
		36	37	19.97	19.45	19.27
		75	0	19.91	19.45	19.26
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39750	40620	41490
20MHz	QPSK	1	0	21.67	21.46	21.36
		1	49	21.84	21.44	21.17
		1	99	21.83	21.07	20.72
		50	0	20.83	20.49	20.45
		50	25	20.84	20.45	20.46
		50	50	20.89	20.29	20.17
		100	0	20.89	20.4	20.38
	16QAM	1	0	20.69	20.48	19.95
		1	49	20.88	20.48	19.89
		1	99	20.81	20.07	19.47
		50	0	19.81	19.6	19.64
		50	25	19.81	19.59	19.66
		50	50	19.84	19.42	19.21
		100	0	19.83	19.52	19.36

8.1.7. LTE Band 66

LTE FDD B66			Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel

1.4MHz	QPSK	1	0	22.01	22.4	22.08
		1	2	22.63	22.52	22.04
		1	5	22.65	22.41	21.38
		3	0	22.04	22.18	22.09
		3	1	22.4	22.29	21.83
		3	3	22.57	22.43	21.59
		6	0	21.1	21.25	21.44
	16QAM	1	0	21.29	21.37	21.37
		1	2	21.46	21.37	20.79
		1	5	21.51	21.18	21.02
		3	0	20.95	21.12	21.46
		3	1	21.4	21.3	21.17
		3	3	21.35	21.08	20.77
		6	0	20.17	20.22	19.97
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				131987	132322	132657
3MHz	QPSK	1	0	22.15	22.3	22.25
		1	8	22.39	22.31	21.96
		1	14	22.41	22.49	21.5
		8	0	21.36	21.17	21.18
		8	4	21.33	21.28	21.19
		8	7	21.65	21.34	20.75
		15	0	21.41	21.12	20.93
	16QAM	1	0	20.94	21.16	21.39
		1	8	21.47	21.14	21.03
		1	14	21.4	21.22	20.75
		8	0	20.21	20.06	20.13
		8	4	20.04	20.13	20.19
		8	7	20.32	20.37	19.62
		15	0	20.27	20.28	20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				131997	132322	132647
5MHz	QPSK	1	0	22.22	22.4	22.25
		1	12	22.56	22.33	21.83
		1	24	22.45	22.31	21.56
		12	0	21.33	21.14	21.35
		12	6	21.27	21.19	21.23
		12	13	21.42	21.25	20.74
		25	0	21.31	21.1	21.09
	16QAM	1	0	20.97	21.09	21.42
		1	12	21.46	21.09	21.08
		1	24	21.46	21.22	20.79
		12	0	20.16	20.35	20.19

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				132022	132322	132622
10MHz	QPSK	12	6	20.09	20.18	20.2
		12	13	20.37	20.38	19.75
		25	0	20.25	20.19	20.08
		1	0	22.09	22.22	22.02
		1	24	22.66	22.46	21.85
		1	49	22.55	22.23	21.63
		25	0	21.1	21.1	21.18
	16QAM	25	12	21.23	21.12	21.42
		25	25	21.44	21.2	20.62
		50	0	21.28	21.34	21.02
		1	0	20.93	21.03	21.27
		1	24	21.42	21.19	21.24
		1	49	21.38	21.04	20.65
		25	0	20.2	20.2	20.38
15MHz	QPSK	25	12	20.16	20.11	20.39
		25	25	20.4	20.38	19.92
		50	0	20.31	20.27	20.13
		1	0	22.18	22.27	22.14
		1	38	22.55	22.27	21.81
		1	74	22.67	22.32	21.54
		36	0	21.3	21.31	21.3
	16QAM	36	18	21.25	21.35	21.12
		36	37	21.65	21.16	20.63
		75	0	21.44	21.16	20.95
		1	0	20.77	21.13	21.43
		1	38	21.46	21.23	21.19
		1	74	21.37	21.1	20.83
		36	0	20.07	20.36	20.38
20MHz	QPSK	36	18	20.17	20.17	20.2
		36	37	20.58	20.15	19.74
		75	0	20.35	20.19	19.9
		1	0	22.09	22.29	22.12
		1	49	22.53	22.41	21.95
		1	99	22.55	22.35	21.49
		50	0	21.24	21.24	21.3
	16QAM	50	25	21.18	21.26	21.27
		50	50	21.51	21.31	20.76

	16QAM	100	0	21.37	21.23	21.08
		1	0	20.89	21.11	21.39
		1	49	21.38	21.21	21.17
		1	99	21.31	21.11	20.73
		50	0	20.16	20.21	20.27
		50	25	20.16	20.21	20.26
		50	50	20.44	20.24	19.77
		100	0	20.29	20.21	19.99

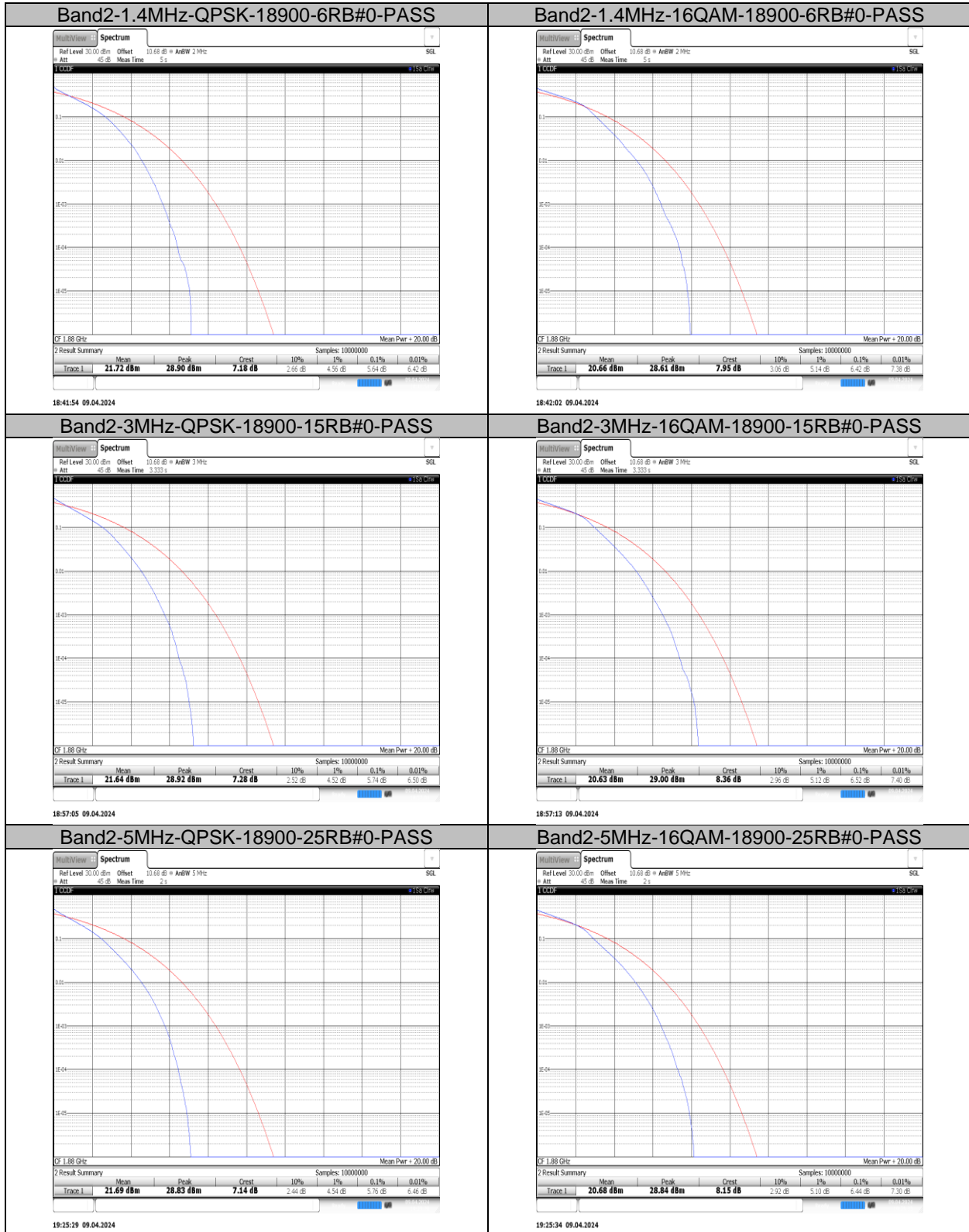
8.2. Appendix B: Peak-to-Average Ratio(CCDF)

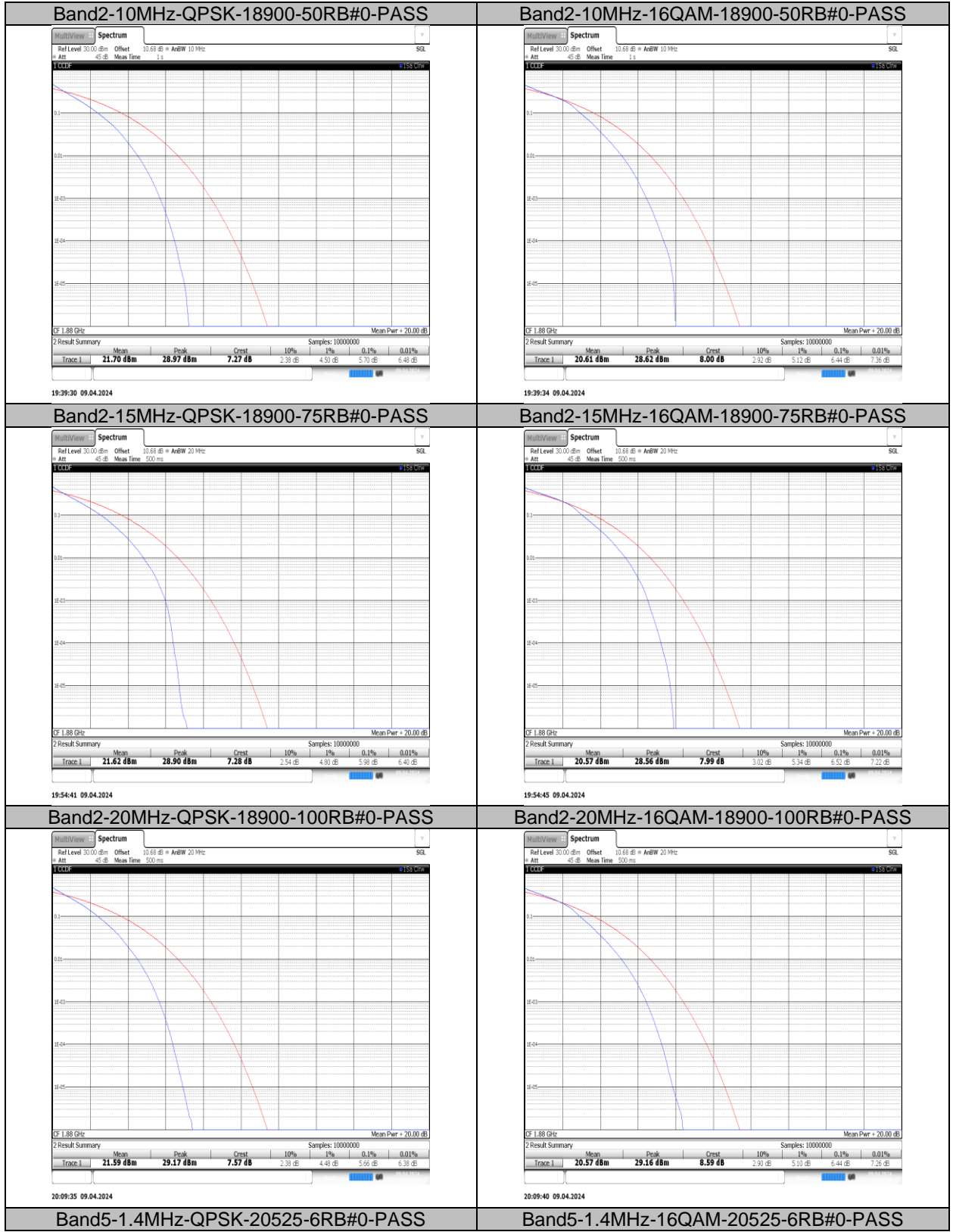
8.2.1. Test Result

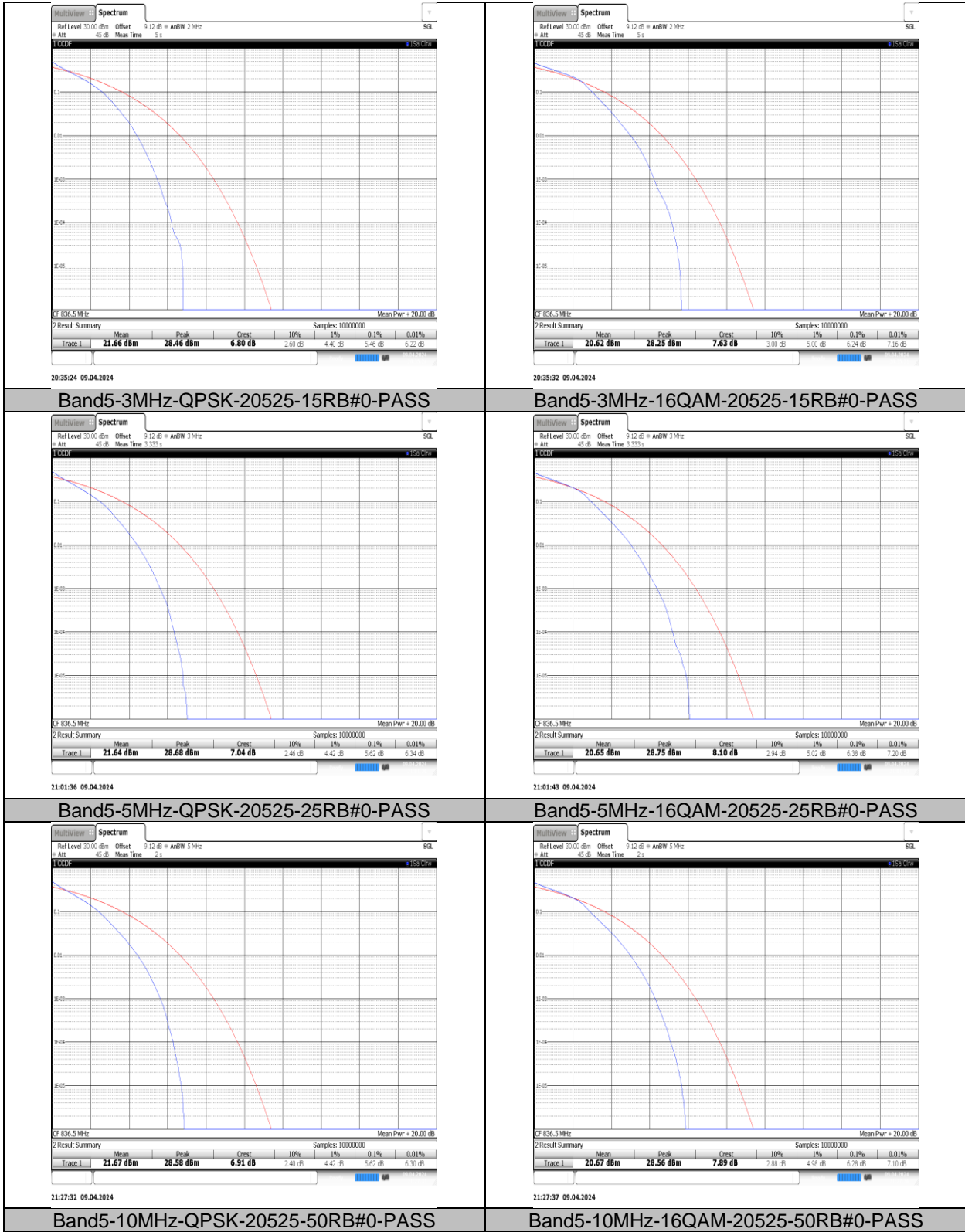
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	QPSK	18900	6RB#0	5.64	13	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	6.42	13	PASS
Band2	3MHz	QPSK	18900	15RB#0	5.74	13	PASS
Band2	3MHz	16QAM	18900	15RB#0	6.52	13	PASS
Band2	5MHz	QPSK	18900	25RB#0	5.76	13	PASS
Band2	5MHz	16QAM	18900	25RB#0	6.44	13	PASS
Band2	10MHz	QPSK	18900	50RB#0	5.7	13	PASS
Band2	10MHz	16QAM	18900	50RB#0	6.44	13	PASS
Band2	15MHz	QPSK	18900	75RB#0	5.98	13	PASS
Band2	15MHz	16QAM	18900	75RB#0	6.52	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.66	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.44	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.46	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.24	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.62	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.38	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.62	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.28	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.5	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.24	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.14	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	5.86	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.12	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	5.88	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.18	13	PASS

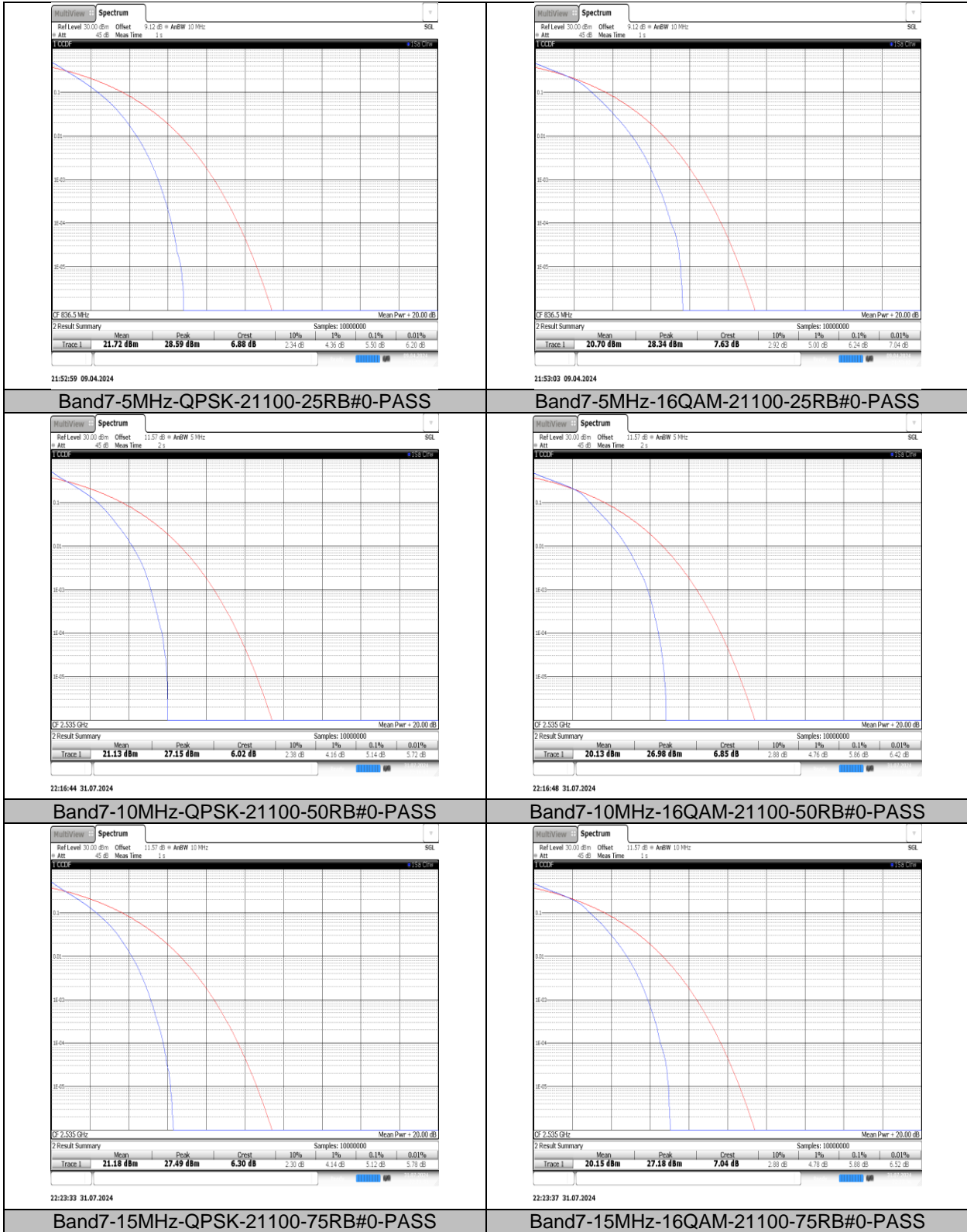
Band7	15MHz	16QAM	21100	75RB#0	5.82	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.12	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.90	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.46	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.32	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.6	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.38	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.56	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.3	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.44	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.3	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	5.38	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	6.06	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	5.34	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	6.08	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	5.34	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	6.04	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	5.3	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	6.12	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	5.66	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	6.6	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	5.6	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	6.7	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	5.86	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	6.8	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	5.48	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	6.54	13	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	5.52	13	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	6.3	13	PASS
Band66	3MHz	QPSK	132322	15RB#0	5.66	13	PASS
Band66	3MHz	16QAM	132322	15RB#0	6.42	13	PASS
Band66	5MHz	QPSK	132322	25RB#0	5.68	13	PASS
Band66	5MHz	16QAM	132322	25RB#0	6.34	13	PASS
Band66	10MHz	QPSK	132322	50RB#0	5.64	13	PASS
Band66	10MHz	16QAM	132322	50RB#0	6.36	13	PASS
Band66	15MHz	QPSK	132322	75RB#0	5.88	13	PASS
Band66	15MHz	16QAM	132322	75RB#0	6.44	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	5.58	13	PASS
Band66	20MHz	16QAM	132322	100RB#0	6.36	13	PASS

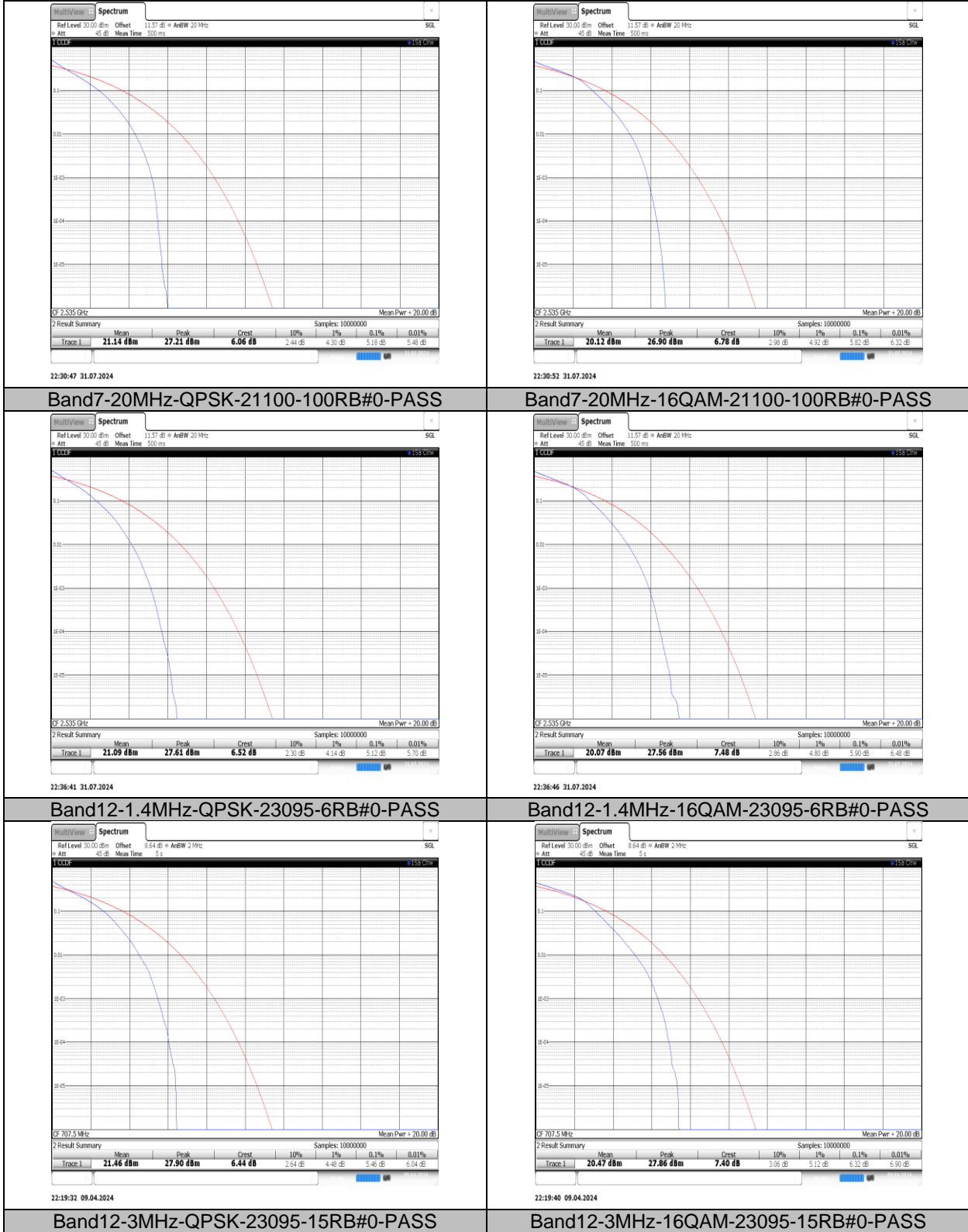
8.2.2. Test Graphs

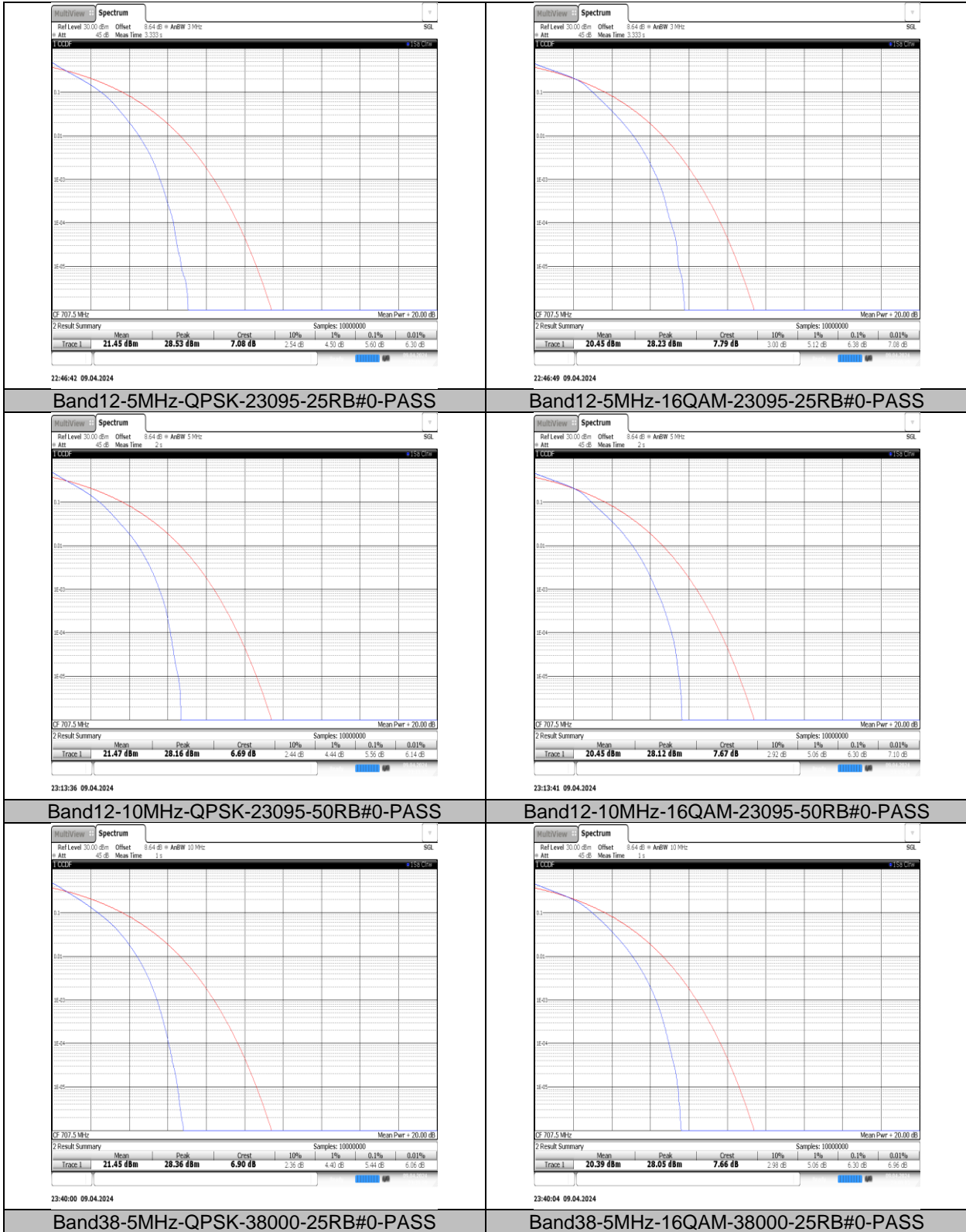


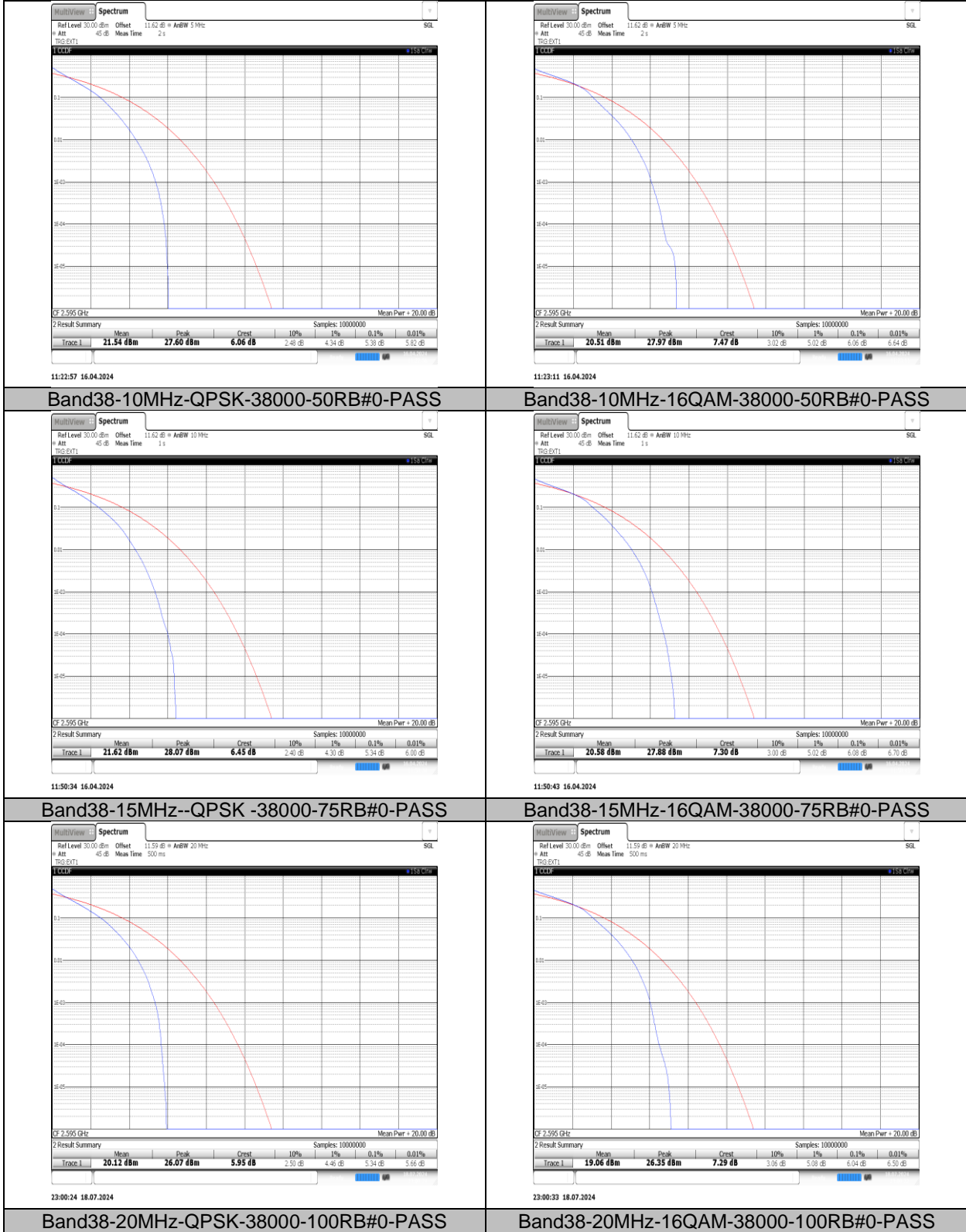


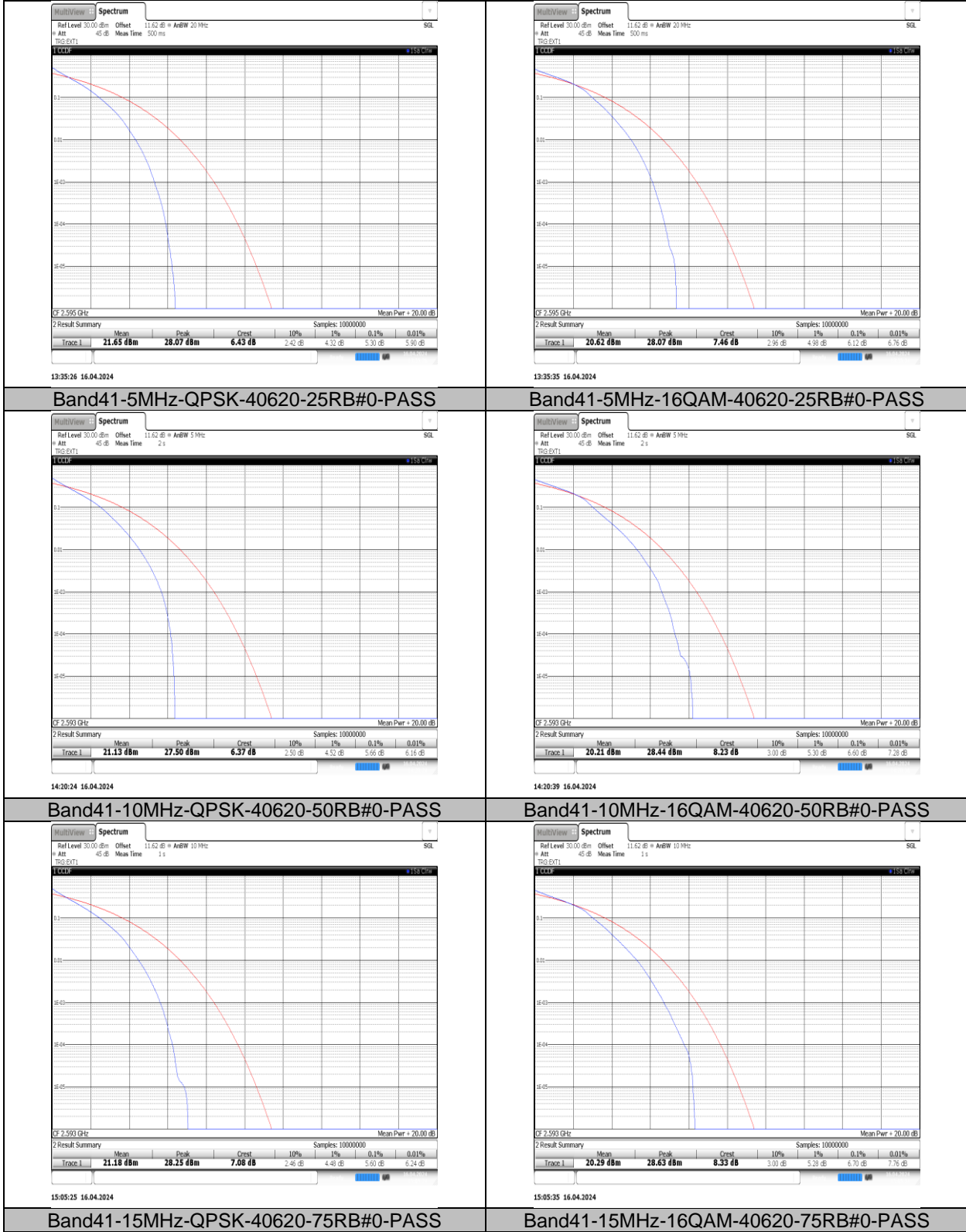


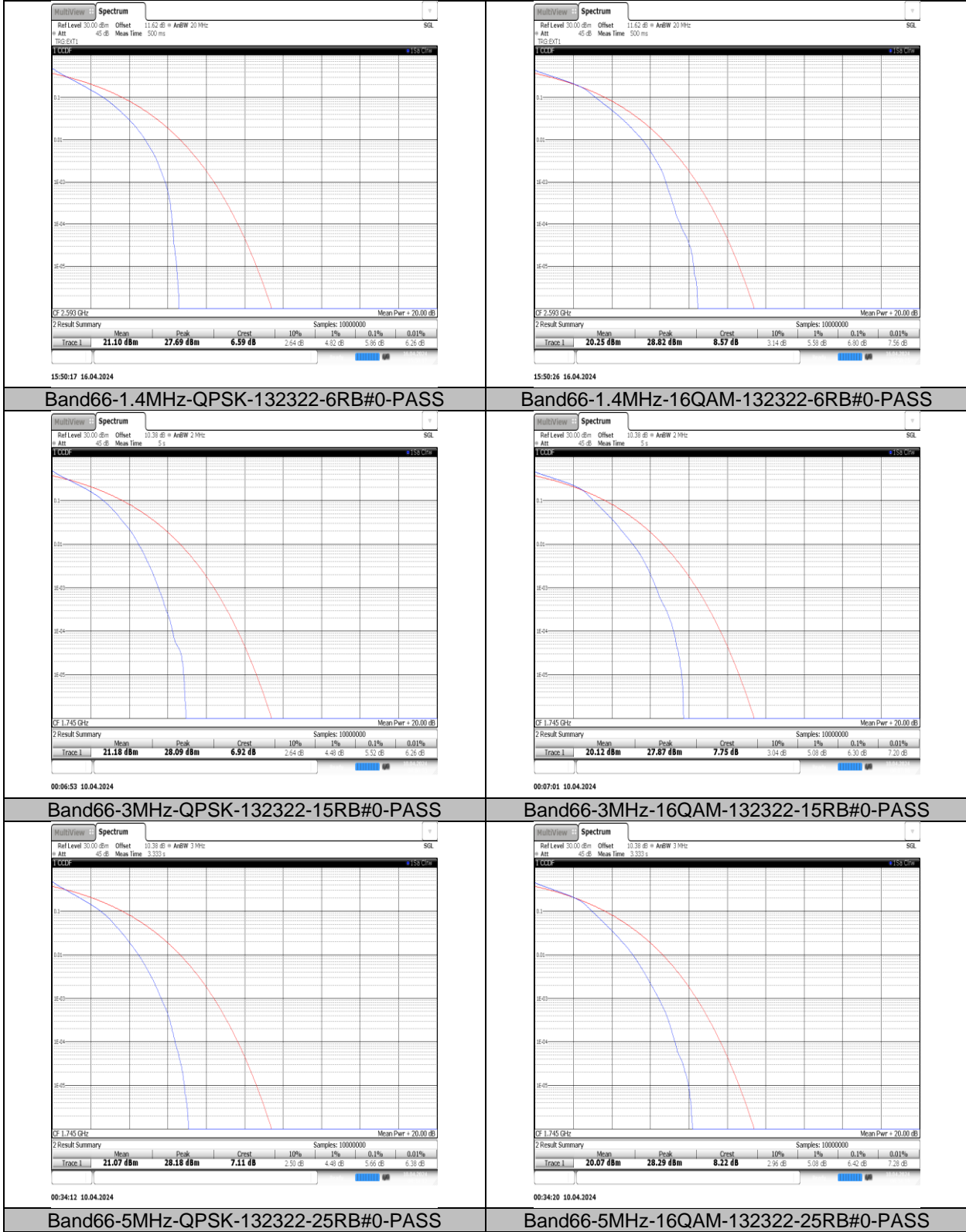


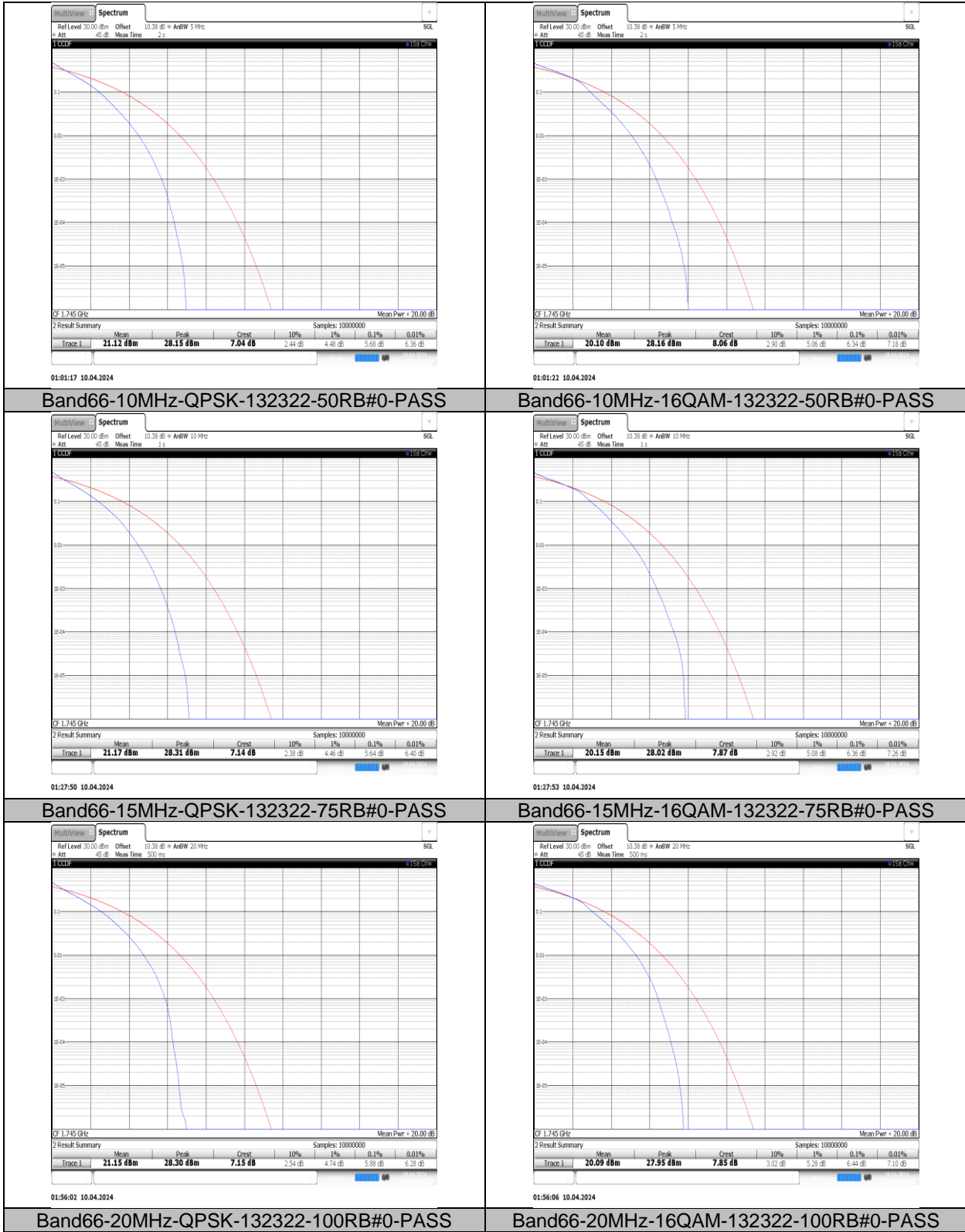


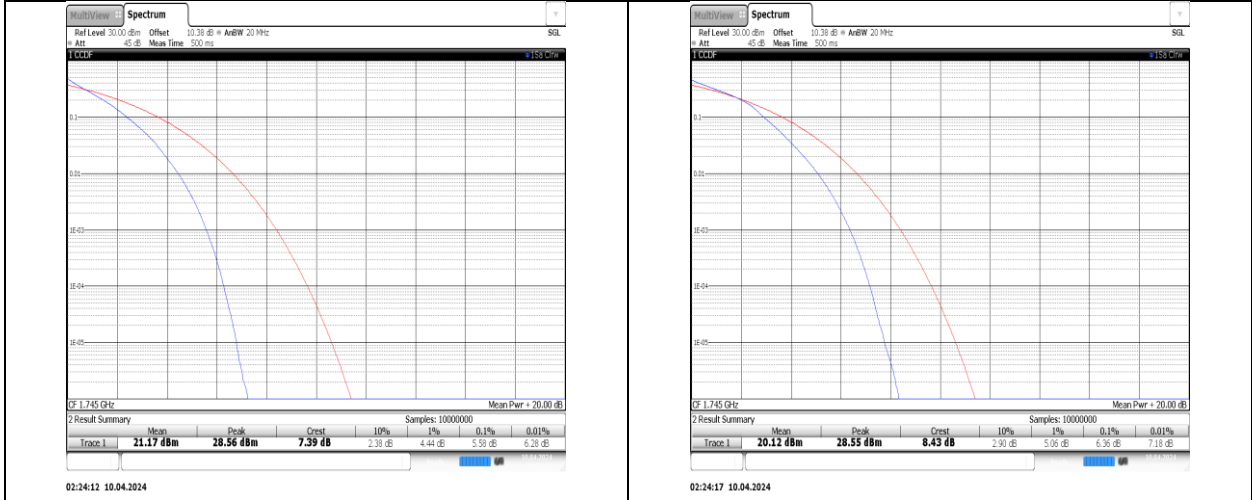












8.3. Appendix C: 26dB Bandwidth and Occupied Bandwidth

8.3.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.093	1.30	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.095	1.30	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.095	1.31	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.099	1.33	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.099	1.33	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.1	1.32	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.689	2.94	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.694	2.94	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.696	2.94	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.684	2.94	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.683	2.93	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.685	2.93	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.502	5.00	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.499	5.01	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.5	5.01	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.492	4.96	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.493	4.96	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.495	4.96	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.978	9.87	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.992	9.93	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.992	9.90	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.984	9.83	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.986	9.83	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.97	9.83	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.467	14.85	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.485	14.85	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.494	14.90	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.448	14.80	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.48	14.80	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.474	14.85	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.966	19.67	PASS
Band2	20MHz	QPSK	18900	100RB#0	18.028	19.73	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.983	19.67	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.944	19.73	PASS
Band2	20MHz	16QAM	18900	100RB#0	18.072	19.67	PASS
Band2	20MHz	16QAM	19100	100RB#0	18.026	19.87	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	1.093	1.30	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.092	1.31	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.097	1.30	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.097	1.31	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.1	1.33	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.098	1.30	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.694	2.94	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.696	2.94	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.694	2.95	PASS

Band5	3MHz	16QAM	20415	15RB#0	2.688	2.92	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.686	2.94	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.684	2.93	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.501	5.01	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.498	5.00	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5	5.01	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.495	5.00	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.494	4.97	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.495	4.99	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.999	9.97	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.977	9.83	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.975	9.87	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.986	9.87	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.966	9.83	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.97	9.80	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.505	4.99	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.512	5.03	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.988	9.90	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.98	9.87	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.474	14.85	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.486	14.80	PASS
Band7	20MHz	QPSK	21100	100RB#0	18	19.80	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.978	19.67	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	1.093	1.30	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.095	1.30	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.096	1.31	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.1	1.31	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.095	1.30	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.1	1.31	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.692	2.92	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.692	2.94	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.696	2.93	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.684	2.95	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.69	2.94	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.694	2.95	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.503	5.02	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.489	4.97	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.505	5.00	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.496	4.97	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.499	5.01	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.513	5.01	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.991	9.93	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.976	9.83	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.954	9.87	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.986	9.80	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.971	9.87	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.965	9.83	PASS
Band38	5MHz	QPSK	37775	25RB#0	4.5	5.03	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.497	5.04	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.496	5.04	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.497	5.04	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.498	5.03	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.497	5.04	PASS
Band38	10MHz	QPSK	37800	50RB#0	9.002	10.27	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.994	10.50	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.991	10.17	PASS

Band38	10MHz	16QAM	37800	50RB#0	8.98	9.97	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.973	9.90	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.978	9.97	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.505	15.75	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.521	15.50	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.497	15.80	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.478	15.85	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.485	15.80	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.488	15.75	PASS
Band38	20MHz	QPSK	37850	100RB#0	18.043	19.80	PASS
Band38	20MHz	QPSK	38000	100RB#0	18.022	19.80	PASS
Band38	20MHz	QPSK	38150	100RB#0	18.019	19.80	PASS
Band38	20MHz	16QAM	37850	100RB#0	18	20.73	PASS
Band38	20MHz	16QAM	38000	100RB#0	18.009	20.60	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.985	20.73	PASS
Band41	5MHz	QPSK	39675	25RB#0	4.498	5.04	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.495	5.03	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.495	5.06	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.497	5.01	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.494	5.02	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.495	5.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.997	10.33	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.99	10.30	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.98	10.40	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.979	9.77	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.985	9.80	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.998	9.90	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.48	15.60	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.499	15.65	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.497	15.70	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.492	15.65	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.488	15.60	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.501	15.90	PASS
Band41	20MHz	QPSK	39750	100RB#0	18.018	19.80	PASS
Band41	20MHz	QPSK	40620	100RB#0	18.01	19.67	PASS
Band41	20MHz	QPSK	41490	100RB#0	18.037	19.60	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.976	21.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.991	20.73	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.991	21.00	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	1.097	1.31	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	1.095	1.30	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	1.097	1.30	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	1.096	1.30	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	1.095	1.30	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	1.096	1.30	PASS
Band66	3MHz	QPSK	131987	15RB#0	2.699	2.93	PASS
Band66	3MHz	QPSK	132322	15RB#0	2.695	2.94	PASS
Band66	3MHz	QPSK	132657	15RB#0	2.694	2.94	PASS
Band66	3MHz	16QAM	131987	15RB#0	2.684	2.94	PASS
Band66	3MHz	16QAM	132322	15RB#0	2.686	2.95	PASS
Band66	3MHz	16QAM	132657	15RB#0	2.684	2.95	PASS
Band66	5MHz	QPSK	131997	25RB#0	4.501	5.00	PASS
Band66	5MHz	QPSK	132322	25RB#0	4.5	5.02	PASS
Band66	5MHz	QPSK	132647	25RB#0	4.497	5.00	PASS
Band66	5MHz	16QAM	131997	25RB#0	4.494	4.96	PASS
Band66	5MHz	16QAM	132322	25RB#0	4.492	4.97	PASS

Band66	5MHz	16QAM	132647	25RB#0	4.492	4.97	PASS
Band66	10MHz	QPSK	132022	50RB#0	8.975	9.90	PASS
Band66	10MHz	QPSK	132322	50RB#0	8.989	9.93	PASS
Band66	10MHz	QPSK	132622	50RB#0	8.993	9.87	PASS
Band66	10MHz	16QAM	132022	50RB#0	8.983	9.80	PASS
Band66	10MHz	16QAM	132322	50RB#0	8.988	9.87	PASS
Band66	10MHz	16QAM	132622	50RB#0	8.992	9.80	PASS
Band66	15MHz	QPSK	132047	75RB#0	13.476	14.85	PASS
Band66	15MHz	QPSK	132322	75RB#0	13.496	14.80	PASS
Band66	15MHz	QPSK	132597	75RB#0	13.516	14.90	PASS
Band66	15MHz	16QAM	132047	75RB#0	13.468	14.75	PASS
Band66	15MHz	16QAM	132322	75RB#0	13.494	14.80	PASS
Band66	15MHz	16QAM	132597	75RB#0	13.484	14.80	PASS
Band66	20MHz	QPSK	132072	100RB#0	17.994	19.67	PASS
Band66	20MHz	QPSK	132322	100RB#0	18.016	19.67	PASS
Band66	20MHz	QPSK	132572	100RB#0	18.049	19.73	PASS
Band66	20MHz	16QAM	132072	100RB#0	17.991	19.73	PASS
Band66	20MHz	16QAM	132322	100RB#0	18.091	19.73	PASS
Band66	20MHz	16QAM	132572	100RB#0	18.059	19.80	PASS

8.3.2. Test Graphs

