中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

A2LA ACCREDITED
TESTING LABORATORY
CERTIFICATE # 6356.01

TEST REPORT

Applicant: **Autel Robotics Co., Ltd.**
Address: 601, 701, 801, 901, Block B1, Nanshan iPark, No. 1001 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong, 518055, China

FCC ID: **2AGNTMDH240958A**
Product Name: **Autel Alpha**

Standard(s): **47 CFR Part 15, Subpart E(15.407)**
ANSI C63.10-2013
KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: **CR230636130-00D**

Date Of Issue: **2023/8/15**

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "▲". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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CONTENTS

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR230636130-00D	Original Report	2023/8/15

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Autel Alpha
EUT Model:	MDH
Operation Frequency:	5150-5250 MHz band: SRD 1.4MHz:5154-5246 MHz SRD 10MHz: 5157-5243MHz SRD 20MHz: 5167-5233MHz 5725-5850 MHz band: SRD 1.4MHz: 5728-5847 MHz SRD 10MHz: 5733-5842 MHz SRD 20MHz: 5738-5839 MHz
Maximum Average Output Power (Conducted):	5150-5250 MHz band: 17.29dBm 5725-5850 MHz band: 28.07dBm
Modulation Type:	QPSK ,16QAM
Rated Input Voltage:	DC 23.7V from battery
Serial Number:	278G-1 (For RF Conducted Test) 278G-2 (For Spurious Emissions Test)
EUT Received Date:	2023/6/26
EUT Received Status:	Good

1.1.2 Operation Frequency Detail:

For SRD-5.2GHz band:

1.4MHz Bandwidth Mode:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5154	48	5201
2	5155	49	5202
3	5156	…	…
…	…	…	…
…	…	92	5245
46	5199	93	5246
47	5200	/	/

Per section 15.31(m), the below frequencies were performed the test as below:

Test Channel	Frequency (MHz)
Lowest	5154
Middle	5201
Highest	5246

10MHz Bandwidth Mode:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5157	45	5201
2	5158	46	5202
3	5159	…	…
…	…	…	…
…	…	86	5242
43	5199	87	5243
44	5200	/	/
Per section 15.31(m), the below frequencies were performed the test as below:			
Test Channel	**Frequency (MHz)**		
Lowest	5157		
Middle	5201		
Highest	5243		

20MHz Bandwidth Mode:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5167	35	5201
2	5168	36	5202
3	5169	…	…
…	…	…	…
…	…	66	5232
33	5199	67	5233
34	5200	/	/
Per section 15.31(m), the below frequencies were performed the test as below:			
Test Channel	**Frequency (MHz)**		
Lowest	5167		
Middle	5201		
Highest	5233		

For SRD-5.8GHz band:
1.4MHz Bandwidth Mode:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5728	61	5788
2	5729	62	5789
3	5730	…	…
…	…	…	…
…	…	118	5845
59	5786	119	5846
60	5787	120	5847
Per section 15.31(m), the below frequencies were performed the test as below:			
Test Channel	**Frequency (MHz)**		
Lowest	5728		
Middle	5789		
Highest	5847		

For SRD-5.8GHz band 10MHz Bandwidth Mode:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5733	56	5788
2	5734	57	5789
3	5735	…	…
…	…	…	…
…	…	108	5840
54	5786	109	5841
55	5787	110	5842
Per section 15.31(m), the below frequencies were performed the test as below:			
Test Channel	**Frequency (MHz)**		
Lowest	5733		
Middle	5789		
Highest	5842		

For SRD-5.8GHz band 20MHz Bandwidth Mode:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5738	52	5789
2	5739	53	5790
3	5740	…	…
…	…	…	…
…	…	100	5837
50	5787	101	5838
51	5788	102	5839
Per section 15.31(m), the below frequencies were performed the test as below:			
Test Channel	**Frequency (MHz)**		
Lowest	5738		
Middle	5790		
Highest	5839		

1.1.3 Antenna Information Detail▲:

Antenna Chain	Manufacturer	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
0 (Tx&Rx)	Shen Zhen IOE Communication Technology Co., Ltd.	PCB	50	902-928 MHz	2.38dBi
				2400-2483.5 MHz	4.01 dBi
				5150-5250 MHz	3.31 dBi
				5725-5850 MHz	3.08 dBi
1 (Tx&Rx)		PCB	50	902-928 MHz	2.0 dBi
				2400-2483.5 MHz	3.65 dBi
				5150-5250 MHz	2.75 dBi
				5725-5850 MHz	3.35 dBi
2 (Rx Only)		PCB	50	902-928 MHz	0.17 dBi
				2400-2483.5 MHz	3.74 dBi
				5150-5250 MHz	3.52 dBi
				5725-5850 MHz	3.1 dBi
3 (Rx Only)		PCB	50	902-928 MHz	0.46 dBi
				2400-2483.5 MHz	3.61 dBi
				5150-5250 MHz	3.67 dBi
				5725-5850 MHz	3.42 dBi

The Method of §15.203 Compliance:

☒Antenna was permanently attached to the unit.

☐Antenna use a unique type of connector to attach to the EUT.

☐Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

1.1.4 Accessory Information:

Accessory Description	Manufacturer	Model
Adapter	Shenzhen Esun Power Technology Co.,Ltd	DF_CHARGER

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer. The device only supports MIMO mode 2Tx4Rx.
Equipment Modifications:	No
EUT Exercise Software:	RRTL6.0.0_VCOM

The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲:

5150-5250 MHz Band: QPSK

Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting	
				Chain 0	Chain 1
1.4M	Lowest	5154	6Mbps	77	77
	Middle	5201	6Mbps	77	77
	Highest	5246	6Mbps	77	77
10M	Lowest	5157	MCS8	76	76
	Middle	5201	MCS8	76	76
	Highest	5243	MCS8	76	76
20M	Lowest	5167	MCS8	77	77
	Highest	5201	MCS8	77	77
	Middle	5233	MCS8	77	77

5725-5850 MHz Band: QPSK

Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting	
				Chain 0	Chain 1
1.4M	Lowest	5728	6Mbps	25	25
	Middle	5789	6Mbps	25	25
	Highest	5847	6Mbps	25	25
10M	Lowest	5733	MCS8	25	25
	Middle	5789	MCS8	25	25
	Highest	5842	MCS8	25	25
20M	Lowest	5738	MCS8	25	25
	Highest	5790	MCS8	25	25
	Middle	5839	MCS8	25	25

5150-5250 MHz Band: 16QAM

Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting	
				Chain 0	Chain 1
1.4M	Lowest	5154	6Mbps	77	77
	Middle	5201	6Mbps	77	77
	Highest	5246	6Mbps	77	77
10M	Lowest	5157	MCS8	76	76
	Middle	5201	MCS8	76	76
	Highest	5243	MCS8	76	76
20M	Lowest	5167	MCS8	77	77
	Highest	5201	MCS8	77	77
	Middle	5233	MCS8	77	77

5725-5850 MHz Band: 16QAM					
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting	
				Chain 0	Chain 1
1.4M	Lowest	5728	6Mbps	25	25
	Middle	5789	6Mbps	25	25
	Highest	5847	6Mbps	25	25
10M	Lowest	5733	MCS8	25	25
	Middle	5789	MCS8	25	25
	Highest	5842	MCS8	25	25
20M	Lowest	5738	MCS8	25	25
	Highest	5790	MCS8	25	25
	Middle	5839	MCS8	25	25

1.2.2 Support Equipment List and Details

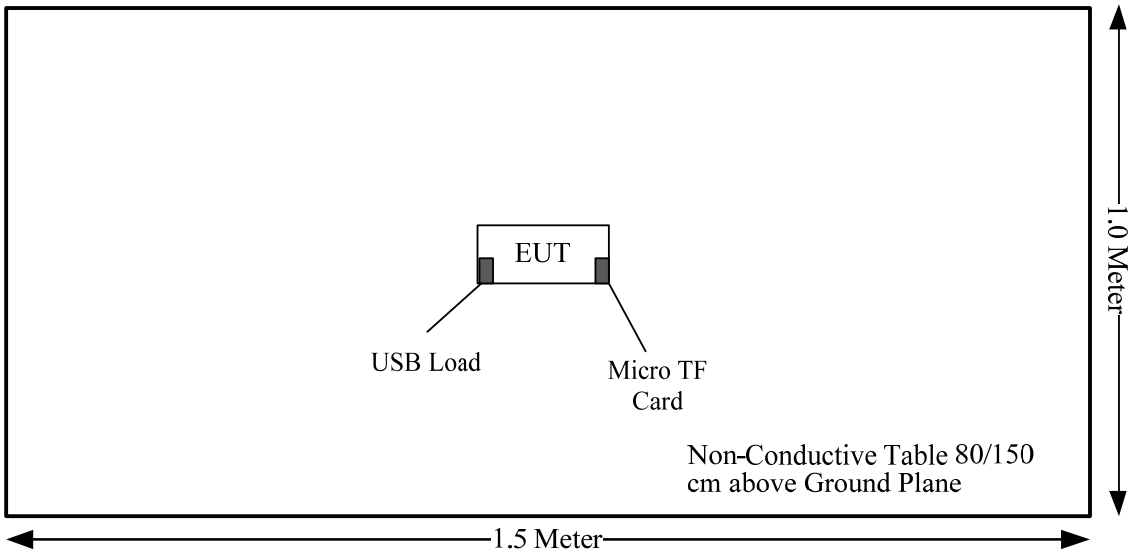
Manufacturer	Description	Model	Serial Number
Unknown	USB Load	Unknown	Unknown
SanDisk	Micro TF Card	UHS-I-16G	9292DVDSV0XZ

1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
/	/	/	/	/	/

1.2.4 Block Diagram of Test Setup

Spurious Emissions:



1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Test Items	Result
§15.207(a)	AC line conducted emissions	Not Applicable
FCC§15.205& §15.209 &§15.407(b)	Radiated Spurious Emissions	Compliant
FCC§15.407(a) (e)	Emission Bandwidth	Compliant
FCC§15.407(a)	Maximum Conducted Output Power	Compliant
FCC§15.407 (a)	Power Spectral Density	Compliant
§15.203	Antenna Requirement	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

	Conducted limit (dBμV)	
Frequency of emission (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

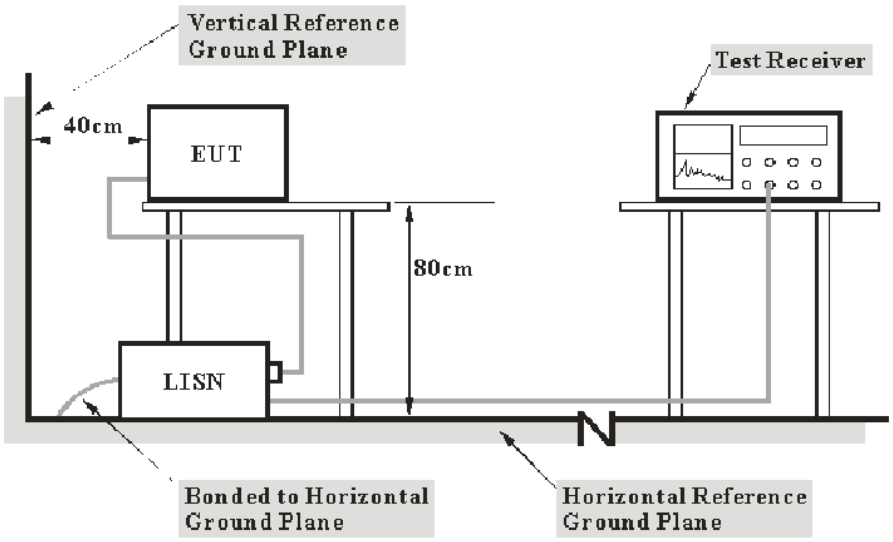
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μV within the frequency band 535-1705 kHz, as measured using a 50 μH/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtainig their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

3.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor
Factor = attenuation caused by cable loss + voltage division factor of AMN

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

3.2 Radiation Spurious Emissions

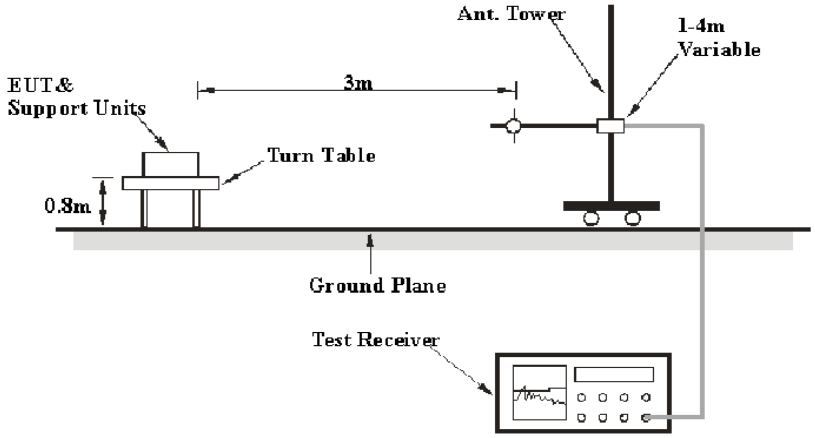
3.2.1 Applicable Standard

FCC §15.407 (b);

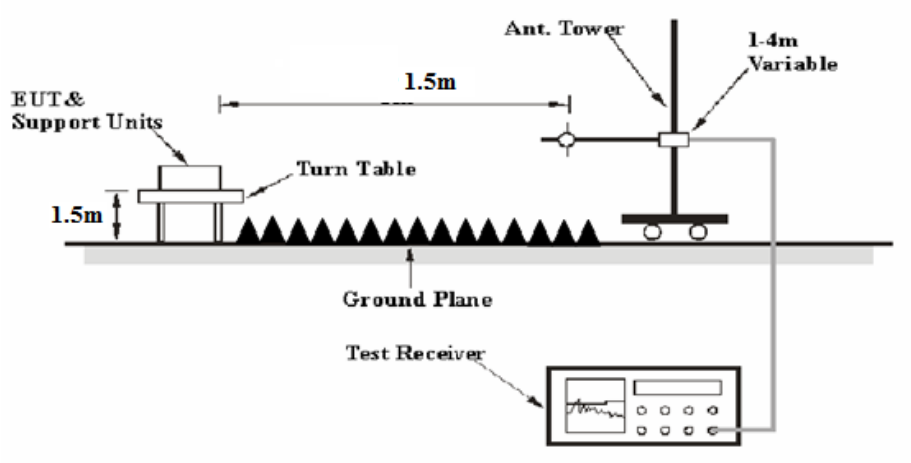
Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of – 27 dBm/MHz.
(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of – 27 dBm/MHz.
(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of – 27 dBm/MHz.
(4) For transmitters operating solely in the 5.725-5.850 GHz band:
(i) All emissions shall be limited to a level of – 27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.
(8) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
(9) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in § 15.207.
(10) The provisions of § 15.205 apply to intentional radiators operating under this section.
(11) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.
(c) The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

3.2.2 EUT Setup

Below 1GHz:



1-40 GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was FCC 15.209, FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

30-1000MHz:

Detector	RBW	Video B/W	IF B/W
QP	120 kHz	300 kHz	120kHz

1GHz- 40GHz:

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
AV	>98%	1MHz	10 Hz
	<98%	1MHz	≥1/T

Note: T is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

3.2.4 Test Procedure

During the radiated emission test, the adapter was connected to the first AC floor outlet.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1GHz, peak and Average detection modes for frequencies above 1GHz.

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: E [dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.

According to C63.10, the above 1G test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m
Distance extrapolation Factor =20 log (specific distance [3m]/test distance [1.5m]) dB= 6.02 dB

All emissions under the average limit and under the noise floor have not recorded in the report.

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Factor = Antenna Factor + Cable Loss- Amplifier Gain

For 30MHz-1GHz:
Result = Reading + Factor

For 1GHz-40GHz
Result = Reading + Factor- Distance extrapolation Factor

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

3.3 Emission Bandwidth:

3.3.1 Applicable Standard

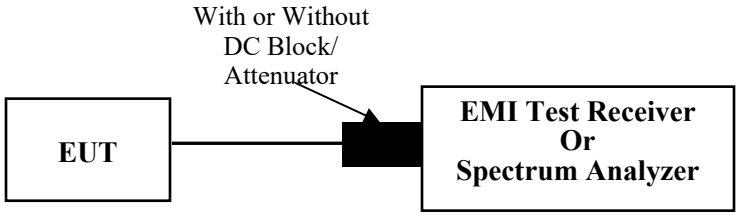
FCC §15.407 (a),(h)

(h)(2) Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems.

FCC §15.407 (e)

Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.3.2 EUT Setup



3.3.3 Test Procedure

26dB Emission Bandwidth:

According to ANSI C63.10-2013 Section 12.4.1

a) Set RBW = approximately 1% of the emission bandwidth.
b) Set the VBW > RBW.
c) Detector = peak.
d) Trace mode = max hold
e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

99% Occupied Bandwidth:

According to ANSI C63.10-2013 Section 12.4.2&6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.
The following procedure shall be used for measuring 99% power bandwidth:
a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
d) Step a) through step c) might require iteration to adjust within the specified range.
e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

6 dB emission bandwidth:

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3 RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described in this section. For devices that use channel aggregation refer to III.A and III.C for determining emission bandwidth.

3.4 Maximum conducted output power:

3.4.1 Applicable Standard

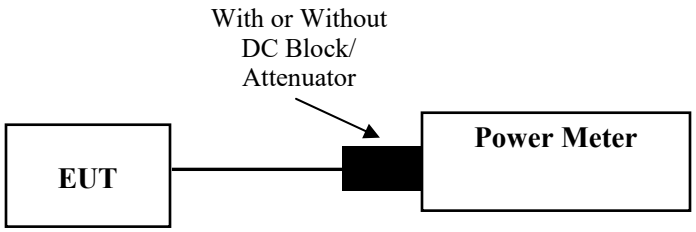
FCC §15.407(a) (1)(i)

For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

FCC §15.407(a) (3)(i)

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

3.4.2 EUT Setup



3.4.3 Test Procedure

According to ANSI C63.10-2013 Section 12.3.3.2

Method PM-G is measurement using a gated RF average power meter.
Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

3.5 Maximum power spectral density:

3.5.1 Applicable Standard

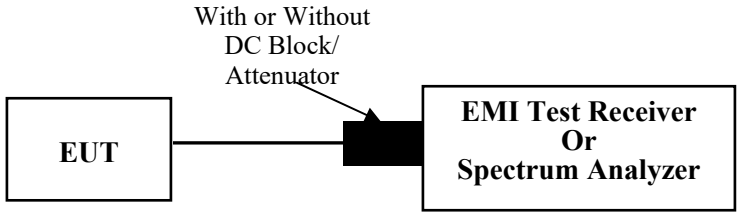
FCC §15.407(a) (1)(i)

For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

FCC §15.407(a) (3)(i)

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

3.5.2 EUT Setup



3.5.3 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Duty cycle ≥98%

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.

Duty cycle <98%, duty cycle variations are less than ±2%

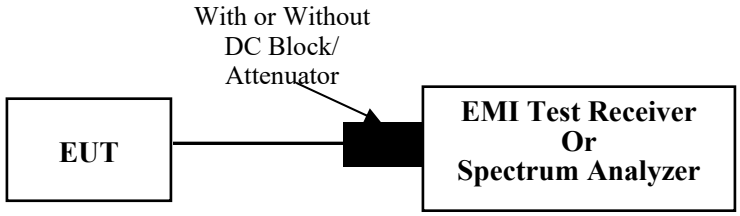
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

Duty cycle <98%, duty cycle variations exceed ±2%

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 should be applied.

3.6 Duty Cycle:

3.6.1 EUT Setup



3.6.2 Test Procedure

According to ANSI C63.10-2013 Section 12.2

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
1) Set the center frequency of the instrument to the center frequency of the transmission.
2) Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value.
3) Set VBW ≥ RBW. Set detector = peak or average.
4) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if T ≤ 16.7 μs.)

3.7 Antenna Requirement

3.7.1 Applicable Standard

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.7.2 Judgment

Result: Compliant. Please refer to the Antenna Information detail in Section 1.

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

Not Applicable, the device was powered by battery when operating

4.2 Radiation Spurious Emissions

Serial Number:	278G-2	Test Date:	Below 1GHz: 2023/7/25 Above 1GHz: 2023/7/2
Test Site:	966-1, 966-2	Test Mode:	Transmitting
Tester:	coco Tian, Carl Xue	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	25.5~26.8	Relative Humidity: (%)	54~59	ATM Pressure: (kPa)	100.1

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiation Emission 30MHz-1GHz					
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
R&S	EMI Test Receiver	ESR3	102724	2023/03/31	2024/03/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/07/16	2024/07/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/07/16	2024/07/15
Sonoma	Amplifier	310N	186165	2023/07/16	2024/07/15
Radiation Emission Above 1GHz					
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2023/03/31	2024/03/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2022/08/07	2023/08/06
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2022/08/07	2023/08/06
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/09	2023/11/08
Audix	Test Software	E3	201021 (V9)	N/A	N/A
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2021/02/05	2024/02/04
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2022/09/16	2023/09/15
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2022/08/07	2023/08/06
E-Microwave	Band Rejection Filter	5150-5850MHz	OE01902423	2022/08/07	2023/08/06
Mini Circuits	High Pass Filter	VHF-6010+	31119	2022/08/07	2023/08/06
PASTERNACK	Horn Antenna	PE9850/2F-20	072001	2021/02/05	2024/02/04

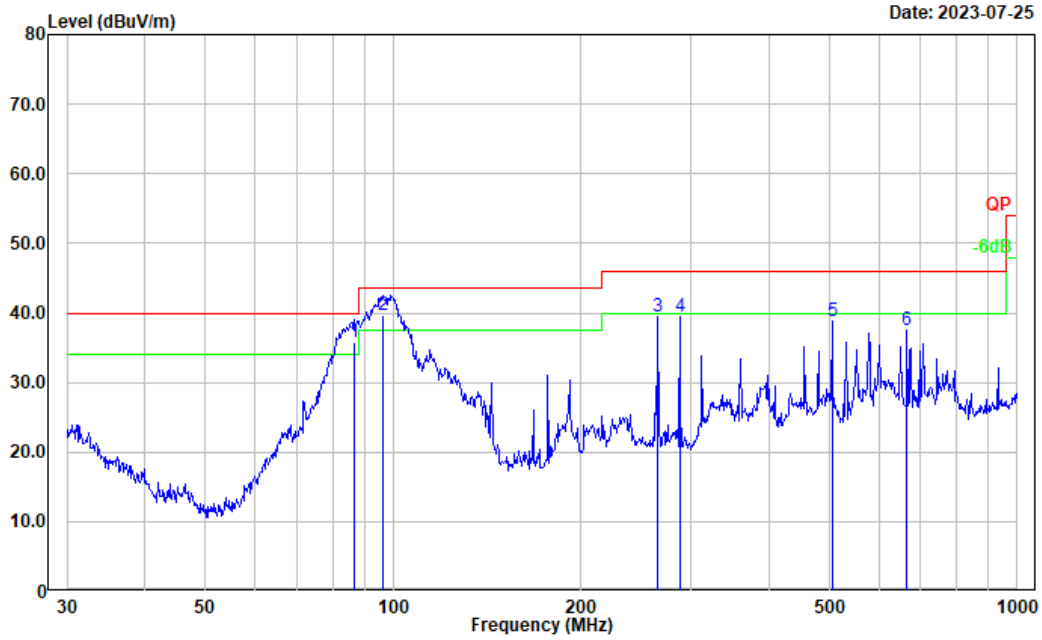
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Please refer to the below table and plots.

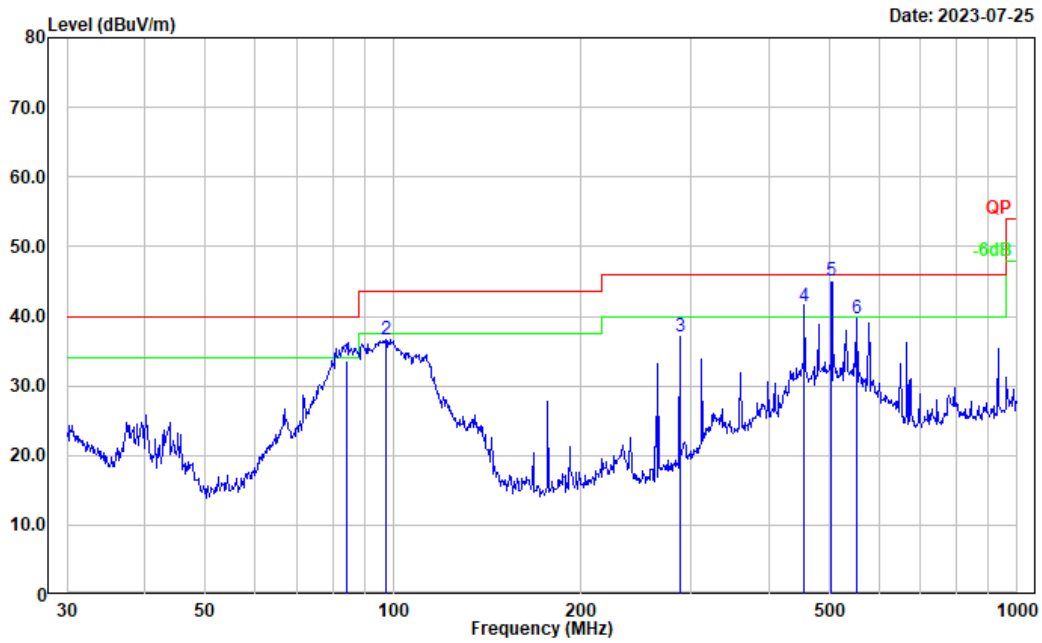
1) 30MHz-1GHz (maximum output power mode (1.4MHz mode 16QAM Middle channel))

Test Mode: Transmitting
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	86.807	52.83	-17.10	35.73	40.00	4.27	QP
2	96.099	54.90	-15.31	39.59	43.50	3.91	QP
3	265.676	51.78	-12.26	39.52	46.00	6.48	Peak
4	287.990	50.56	-11.16	39.40	46.00	6.60	Peak
5	504.706	44.70	-5.93	38.77	46.00	7.23	Peak
6	665.804	41.56	-4.16	37.40	46.00	8.60	Peak

Test Mode: Transmitting
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	84.405	50.82	-17.22	33.60	40.00	6.40	QP
2	97.115	51.65	-15.05	36.60	43.50	6.90	Peak
3	287.990	48.24	-11.16	37.08	46.00	8.92	Peak
4	455.906	48.17	-6.76	41.41	46.00	4.59	QP
5	504.000	51.01	-5.93	45.08	46.00	0.92	QP
6	552.883	45.36	-5.71	39.65	46.00	6.35	Peak

2) 1GHz-40GHz:
5150-5250MHz
1.4M, QPSK:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5154MHz							
5150.000	34.64	PK	V	38.64	67.26	74.00	6.74
5150.000	19.78	AV	V	38.64	52.40	54.00	1.60
10308.000	34.79	PK	V	19.20	47.97	68.20	20.23
15462.000	34.57	PK	V	22.57	51.12	74.00	22.88
15462.000	22.34	AV	V	22.57	38.89	54.00	15.11
Middle Channel: 5201 MHz							
10402.000	34.62	PK	V	19.15	47.75	68.20	20.45
15603.000	34.33	PK	V	22.41	50.72	74.00	23.28
15603.000	22.17	AV	V	22.41	38.56	54.00	15.44
High Channel: 5246 MHz							
5350.000	30.75	PK	V	39.03	63.76	74.00	10.24
5350.000	17.93	AV	V	39.03	50.94	54.00	3.06
10492.000	34.86	PK	V	18.82	47.66	68.20	20.54
15738.000	34.68	PK	V	22.27	50.93	74.00	23.07
15738.000	22.63	AV	V	22.27	38.88	54.00	15.12

16QAM:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5154MHz							
5150.000	34.37	PK	V	38.64	66.99	74.00	7.01
5150.000	19.76	AV	V	38.64	52.38	54.00	1.62
10308.000	34.69	PK	V	19.20	47.87	68.20	20.33
15462.000	34.25	PK	V	22.57	50.80	74.00	23.20
15462.000	22.15	AV	V	22.57	38.70	54.00	15.30
Middle Channel: 5201 MHz							
10402.000	34.26	PK	V	19.15	47.39	68.20	20.81
15603.000	34.29	PK	V	22.41	50.68	74.00	23.32
15603.000	22.56	AV	V	22.41	38.95	54.00	15.05
High Channel: 5246 MHz							
5350.000	30.59	PK	V	39.03	63.60	74.00	10.40
5350.000	17.86	AV	V	39.03	50.87	54.00	3.13
10492.000	34.70	PK	V	18.82	47.50	68.20	20.70
15738.000	34.49	PK	V	22.27	50.74	74.00	23.26
15738.000	22.42	AV	V	22.27	38.67	54.00	15.33

10M,QPSK:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5157MHz							
5150.000	33.18	PK	V	38.64	65.80	74.00	8.20
5150.000	19.87	AV	V	38.64	52.49	54.00	1.51
10314.000	32.64	PK	V	19.19	45.81	68.20	22.39
15471.000	32.76	PK	V	22.54	49.28	74.00	24.72
15471.000	20.68	AV	V	22.54	37.20	54.00	16.80
Low Channel: 5158 MHz							
5150.000	32.67	PK	V	38.64	65.29	74.00	8.71
5150.000	19.54	AV	V	38.64	52.16	54.00	1.84
Low Channel: 5159 MHz							
5150.000	33.19	PK	V	38.64	65.81	74.00	8.19
5150.000	20.08	AV	V	38.64	52.70	54.00	1.30
Low Channel: 5160 MHz							
5150.000	33.12	PK	V	38.64	65.74	74.00	8.26
5150.000	20.17	AV	V	38.64	52.79	54.00	1.21
Middle Channel: 5170 MHz							
5150.000	32.46	PK	V	38.64	65.08	74.00	8.92
5150.000	18.76	AV	V	38.64	51.38	54.00	2.62
Middle Channel: 5201 MHz							
10402.000	34.32	PK	V	19.15	47.45	68.20	20.75
15603.000	34.28	PK	V	22.41	50.67	74.00	23.33
15603.000	22.20	AV	V	22.41	38.59	54.00	15.41
High Channel: 5243 MHz							
5350.000	29.84	PK	V	39.03	62.85	74.00	11.15
5350.000	16.75	AV	V	39.03	49.76	54.00	4.24
10486.000	33.46	PK	V	18.84	46.28	68.20	21.92
15729.000	33.57	PK	V	22.27	49.82	74.00	24.18
15729.000	21.67	AV	V	22.27	37.92	54.00	16.08

16QAM:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5157MHz							
5150.000	34.65	PK	V	38.64	67.27	74.00	6.73
5150.000	19.86	AV	V	38.64	52.48	54.00	1.52
10314.000	33.41	PK	V	19.19	46.58	68.20	21.62
15471.000	32.76	PK	V	22.54	49.28	74.00	24.72
15471.000	19.86	AV	V	22.54	36.38	54.00	17.62
Low Channel: 5158 MHz							
5150.000	33.54	PK	V	38.64	66.16	74.00	7.84
5150.000	20.55	AV	V	38.64	53.17	54.00	0.83
Low Channel: 5159 MHz							
5150.000	33.37	PK	V	38.64	65.99	74.00	8.01
5150.000	20.38	AV	V	38.64	53.00	54.00	1.00
Low Channel: 5160 MHz							
5150.000	33.80	PK	V	38.64	66.42	74.00	7.58
5150.000	19.87	AV	V	38.64	52.49	54.00	1.51

Middle Channel: 5170 MHz							
5150.000	32.87	PK	V	38.64	65.49	74.00	8.51
5150.000	18.69	AV	V	38.64	51.31	54.00	2.69
Middle Channel: 5201 MHz							
10402.000	34.76	PK	V	19.15	47.89	68.20	20.31
15603.000	34.19	PK	V	22.41	50.58	74.00	23.42
15603.000	22.07	AV	V	22.41	38.46	54.00	15.54
High Channel: 5243 MHz							
5350.000	29.34	PK	V	39.03	62.35	74.00	11.65
5350.000	16.57	AV	V	39.03	49.58	54.00	4.42
10486.000	34.16	PK	V	18.84	46.98	68.20	21.22
15729.000	34.31	PK	V	22.27	50.56	74.00	23.44
15729.000	22.09	AV	V	22.27	38.34	54.00	15.66

20M,QPSK:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector					
Low Channel: 5167 MHz							
5150.000	32.84	PK	V	38.64	65.46	74.00	8.54
5150.000	19.73	AV	V	38.64	52.35	54.00	1.65
10334.000	32.20	PK	V	19.19	45.37	68.20	22.83
15501.000	32.07	PK	V	22.46	48.51	74.00	25.49
15501.000	19.98	AV	V	22.46	36.42	54.00	17.58
Low Channel: 5168 MHz							
5150.000	31.75	PK	V	38.64	64.37	74.00	9.63
5150.000	18.53	AV	V	38.64	51.15	54.00	2.85
Low Channel: 5169 MHz							
5150.000	32.57	PK	V	38.64	65.19	74.00	8.81
5150.000	19.22	AV	V	38.64	51.84	54.00	2.16
Low Channel: 5170 MHz							
5150.000	32.05	PK	V	38.64	64.67	74.00	9.33
5150.000	18.97	AV	V	38.64	51.59	54.00	2.41
Middle Channel: 5180 MHz							
5150.000	32.35	PK	V	38.64	64.97	74.00	9.03
5150.000	18.64	AV	V	38.64	51.26	54.00	2.74
Middle Channel: 5201 MHz							
10402.000	33.42	PK	V	19.15	46.55	68.20	21.65
15603.000	32.76	PK	V	22.41	49.15	74.00	24.85
15603.000	19.67	AV	V	22.41	36.06	54.00	17.94
High Channel: 5233 MHz							
5350.000	29.64	PK	V	39.03	62.65	74.00	11.35
5350.000	16.75	AV	V	39.03	49.76	54.00	4.24
10466.000	33.61	PK	V	18.92	46.51	68.20	21.69
15699.000	32.74	PK	V	22.28	49.00	74.00	25.00
15699.000	19.68	AV	V	22.28	35.94	54.00	18.06

16QAM:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5167 MHz							
5150.000	31.78	PK	V	38.64	64.40	74.00	9.60
5150.000	19.01	AV	V	38.64	51.63	54.00	2.37
10334.000	32.38	PK	V	19.19	45.55	68.20	22.65
15501.000	32.25	PK	V	22.46	48.69	74.00	25.31
15501.000	19.68	AV	V	22.46	36.12	54.00	17.88
Low Channel: 5168 MHz							
5150.000	31.42	PK	V	38.64	64.04	74.00	9.96
5150.000	18.34	AV	V	38.64	50.96	54.00	3.04
Low Channel: 5169 MHz							
5150.000	32.14	PK	V	38.64	64.76	74.00	9.24
5150.000	19.26	AV	V	38.64	51.88	54.00	2.12
Low Channel: 5170 MHz							
5150.000	31.42	PK	V	38.64	64.04	74.00	9.96
5150.000	19.35	AV	V	38.64	51.97	54.00	2.03
Middle Channel: 5180 MHz							
5150.000	33.38	PK	V	38.64	66.00	74.00	8.00
5150.000	18.97	AV	V	38.64	51.59	54.00	2.41
Middle Channel: 5201 MHz							
10402.000	33.06	PK	V	19.15	46.19	68.20	22.01
15603.000	32.45	PK	V	22.41	48.84	74.00	25.16
15603.000	19.39	AV	V	22.41	35.78	54.00	18.22
High Channel: 5233 MHz							
5350.000	30.02	PK	V	39.03	63.03	74.00	10.97
5350.000	16.87	AV	V	39.03	49.88	54.00	4.12
10466.000	33.12	PK	V	18.92	46.02	68.20	22.18
15699.000	32.74	PK	V	22.28	49.00	74.00	25.00
15699.000	19.84	AV	V	22.28	36.10	54.00	17.90

5725-5850MHz:
QPSK 1.4M:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5728MHz							
5725.000	50.06	PK	V	39.48	83.52	122.20	38.68
5720.000	20.78	PK	V	39.49	54.25	110.80	56.55
5700.000	30.56	PK	V	39.51	64.05	105.20	41.15
5650.000	29.64	PK	V	39.49	63.11	68.20	5.09
11456.000	43.41	PK	V	20.77	58.16	74.00	15.84
11456.000	33.46	AV	V	20.77	48.21	54.00	5.79
17184.000	43.64	PK	V	26.50	64.12	68.20	4.08
Middle Channel: 5789 MHz							
11578.000	42.65	PK	V	20.85	57.48	74.00	16.52
11578.000	32.78	AV	V	20.85	47.61	54.00	6.39
17367.000	40.97	PK	V	27.87	62.82	68.20	5.38
High Channel: 5847 MHz							
5850.000	48.79	PK	V	39.49	82.26	122.20	39.94
5855.000	30.97	PK	V	39.51	64.46	110.80	46.34
5875.000	30.45	PK	V	39.60	64.03	105.20	41.17
5925.000	29.64	PK	V	39.68	63.30	68.20	4.90
11694.000	44.93	PK	V	21.20	60.11	74.00	13.89
11694.000	34.68	AV	V	21.20	49.86	54.00	4.14
17541.000	43.16	PK	V	29.07	66.21	68.20	**1.99**

16QAM:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5728MHz							
5725.000	48.66	PK	V	39.48	82.12	122.20	40.08
5720.000	30.45	PK	V	39.49	63.92	110.80	46.88
5700.000	29.64	PK	V	39.51	63.13	105.20	42.07
5650.000	29.78	PK	V	39.49	63.25	68.20	4.95
11456.000	43.25	PK	V	20.77	58.00	74.00	16.00
11456.000	32.16	AV	V	20.77	46.91	54.00	7.09
17184.000	39.64	PK	V	26.50	60.12	68.20	8.08
Middle Channel: 5789 MHz							
11578.000	45.32	PK	V	20.85	60.15	74.00	13.85
11578.000	34.86	AV	V	20.85	49.69	54.00	4.31
17367.000	40.74	PK	V	27.87	62.59	68.20	5.61
High Channel: 5847 MHz							
5850.000	46.54	PK	V	39.49	80.01	122.20	42.19
5855.000	30.68	PK	V	39.51	64.17	110.80	46.63
5875.000	29.67	PK	V	39.60	63.25	105.20	41.95
5925.000	31.02	PK	V	39.68	64.68	68.20	3.52
11694.000	45.89	PK	V	21.20	61.07	74.00	12.93
11694.000	35.09	AV	V	21.20	50.27	54.00	3.73
17541.000	39.99	PK	V	29.07	63.04	68.20	5.16

10M, QPSK:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5733MHz							
5725.000	61.82	PK	V	39.48	95.28	122.20	26.92
5720.000	53.84	PK	V	39.49	87.31	110.80	23.49
5700.000	30.09	PK	V	39.51	63.58	105.20	41.62
5650.000	30.11	PK	V	39.49	63.58	68.20	4.62
11466.000	45.37	PK	V	20.74	60.09	74.00	13.91
11466.000	35.12	AV	V	20.74	49.84	54.00	4.16
17199.000	41.06	PK	V	26.56	61.60	68.20	6.60
Middle Channel: 5789 MHz							
11578.000	43.64	PK	V	20.85	58.47	74.00	15.53
11578.000	33.59	AV	V	20.85	48.42	54.00	5.58
17367.000	40.97	PK	V	27.87	62.82	68.20	5.38
High Channel: 5842 MHz							
5850.000	60.21	PK	V	39.49	93.68	122.20	28.52
5855.000	50.68	PK	V	39.51	84.17	110.80	26.63
5875.000	31.58	PK	V	39.60	65.16	105.20	40.04
5925.000	30.12	PK	V	39.68	63.78	68.20	4.42
11684.000	43.96	PK	V	21.17	59.11	74.00	14.89
11684.000	33.74	AV	V	21.17	48.89	54.00	5.11
17526.000	41.61	PK	V	28.95	64.54	68.20	3.66

16QAM:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5733MHz							
5725.000	60.07	PK	V	39.48	93.53	122.20	28.67
5720.000	55.34	PK	V	39.49	88.81	110.80	21.99
5700.000	31.82	PK	V	39.51	65.31	105.20	39.89
5650.000	30.15	PK	V	39.49	63.62	68.20	4.58
11466.000	44.67	PK	V	20.74	59.39	74.00	14.61
11466.000	34.59	AV	V	20.74	49.31	54.00	4.69
17199.000	42.39	PK	V	26.56	62.93	68.20	5.27
Middle Channel: 5789 MHz							
11578.000	43.43	PK	V	20.85	58.26	74.00	15.74
11578.000	33.14	AV	V	20.85	47.97	54.00	6.03
17367.000	42.56	PK	V	27.87	64.41	68.20	3.79
High Channel: 5842 MHz							
5850.000	58.21	PK	V	39.49	91.68	122.20	30.52
5855.000	44.57	PK	V	39.51	78.06	110.80	32.74
5875.000	31.33	PK	V	39.60	64.91	105.20	40.29
5925.000	30.24	PK	V	39.68	63.90	68.20	4.30
11684.000	46.98	PK	V	21.17	62.13	74.00	11.87
11684.000	36.22	AV	V	21.17	51.37	54.00	2.63
17526.000	42.13	PK	V	28.95	65.06	68.20	3.14

20M QPSK:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5738 MHz							
5725.000	58.64	PK	V	39.48	92.10	122.20	30.10
5720.000	55.01	PK	V	39.49	88.48	110.80	22.32
5700.000	29.94	PK	V	39.51	63.43	105.20	41.77
5650.000	30.17	PK	V	39.49	63.64	68.20	4.56
11476.000	44.64	PK	V	20.71	59.33	74.00	14.67
11476.000	34.52	AV	V	20.71	49.21	54.00	4.79
17214.000	40.11	PK	V	26.64	60.73	68.20	7.47
Middle Channel: 5790 MHz							
11580.000	43.31	PK	V	20.86	58.15	74.00	15.85
11580.000	33.43	AV	V	20.86	48.27	54.00	5.73
17370.000	40.39	PK	V	27.90	62.27	68.20	5.93
High Channel: 5839 MHz							
5850.000	58.76	PK	V	39.49	92.23	122.20	29.97
5855.000	56.67	PK	V	39.51	90.16	110.80	20.64
5875.000	35.36	PK	V	39.60	68.94	105.20	36.26
5925.000	30.64	PK	V	39.68	64.30	68.20	3.90
11678.000	44.02	PK	V	21.15	59.15	74.00	14.85
11678.000	33.89	AV	V	21.15	49.02	54.00	4.98
17517.000	40.73	PK	V	28.88	63.59	68.20	4.61

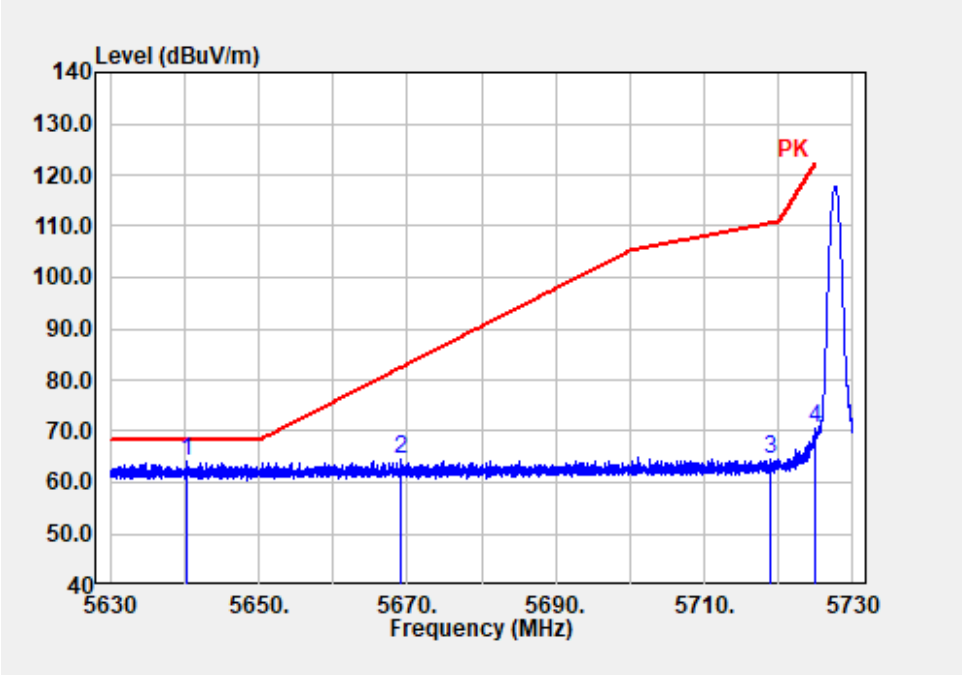
64QAM:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5738 MHz							
5720.000	55.36	PK	V	39.49	88.83	110.80	21.97
5700.000	30.05	PK	V	39.51	63.54	105.20	41.66
5650.000	30.19	PK	V	39.49	63.66	68.20	4.54
11476.000	44.23	PK	V	20.71	58.92	74.00	15.08
11476.000	34.37	AV	V	20.71	49.06	54.00	4.94
17214.000	41.11	PK	V	26.64	61.73	68.20	6.47
Middle Channel: 5790 MHz							
11580.000	43.44	PK	V	20.86	58.28	74.00	15.72
11580.000	34.35	AV	V	20.86	49.19	54.00	4.81
17370.000	40.88	PK	V	27.90	62.76	68.20	5.44
High Channel: 5839 MHz							
5850.000	56.38	PK	V	39.49	89.85	122.20	32.35
5855.000	54.26	PK	V	39.51	87.75	110.80	23.05
5875.000	35.77	PK	V	39.60	69.35	105.20	35.85
5925.000	30.25	PK	V	39.68	63.91	68.20	4.29
11678.000	43.73	PK	V	21.15	58.86	74.00	15.14
11678.000	33.65	AV	V	21.15	48.78	54.00	5.22
17517.000	40.76	PK	V	28.88	63.62	68.20	4.58

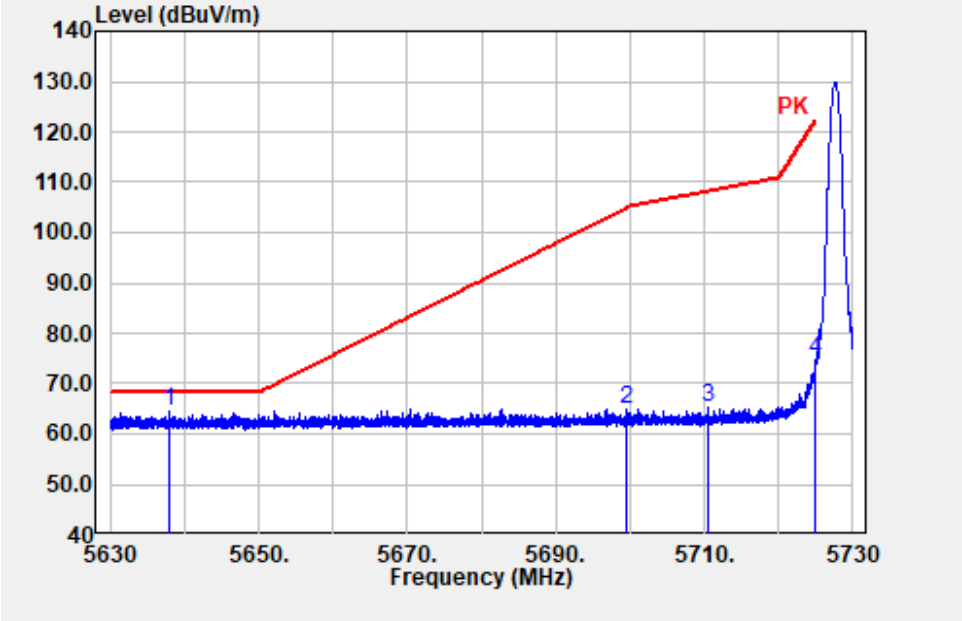
Note:
Result = Reading + Factor- Distance extrapolation Factor
For 1-40GHz:
Distance extrapolation Factor =20 log (specific distance [3m]/test distance [1.5m]) dB= 6.02 dB

Worst Test plots for Band Edge Measurements (1.4MHz 16QAM)(Radiated)

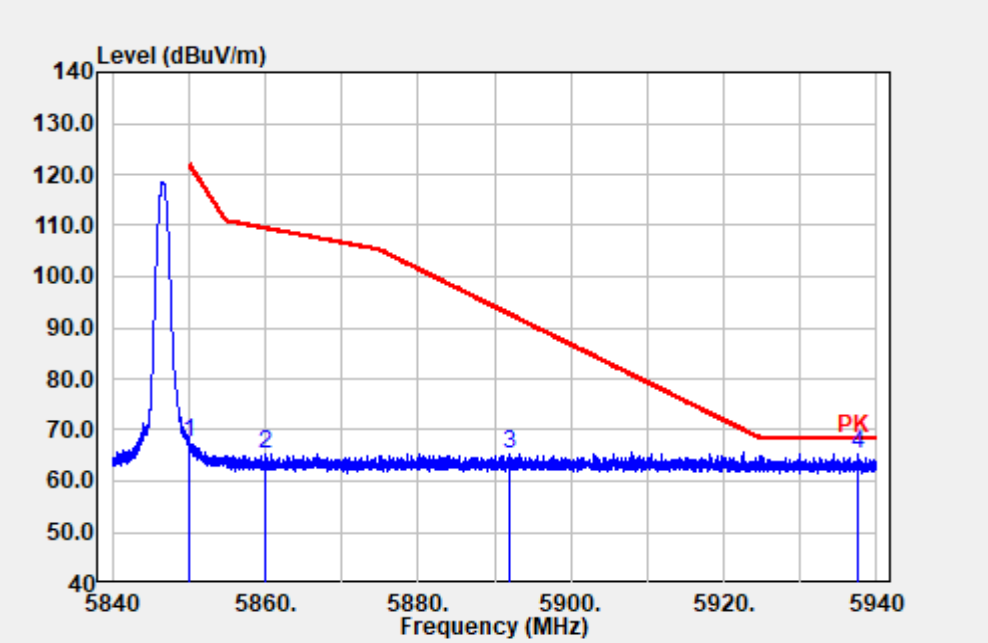
5.8GHz SRD			
Test Channel:	**5728MHz**	**Ant. Polar. :**	**Horizontal**



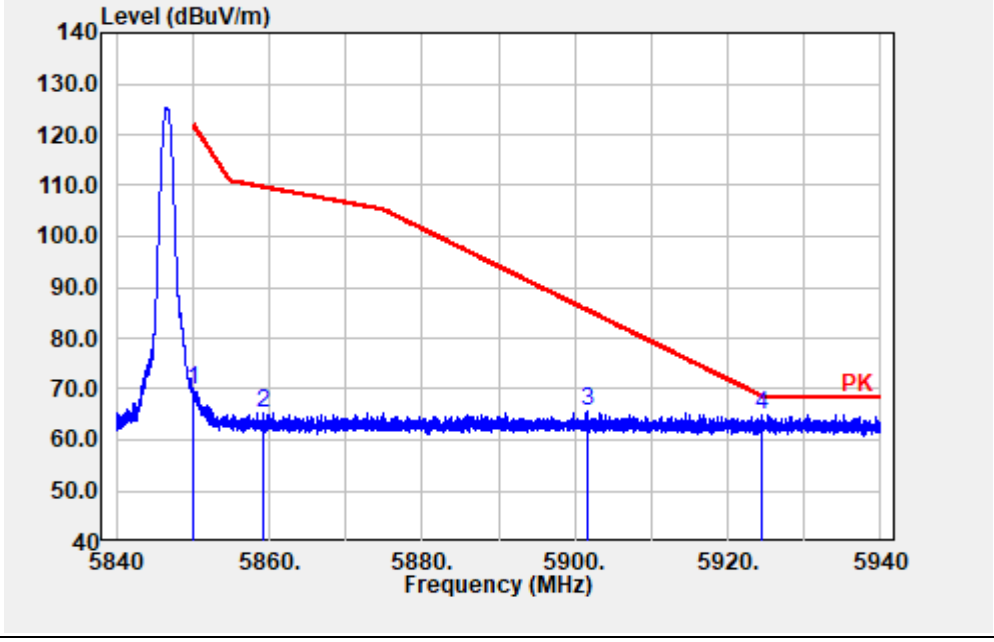
5.8GHz SRD			
Test Channel:	**5728MHz**	**Ant. Polar. :**	**Vertical**



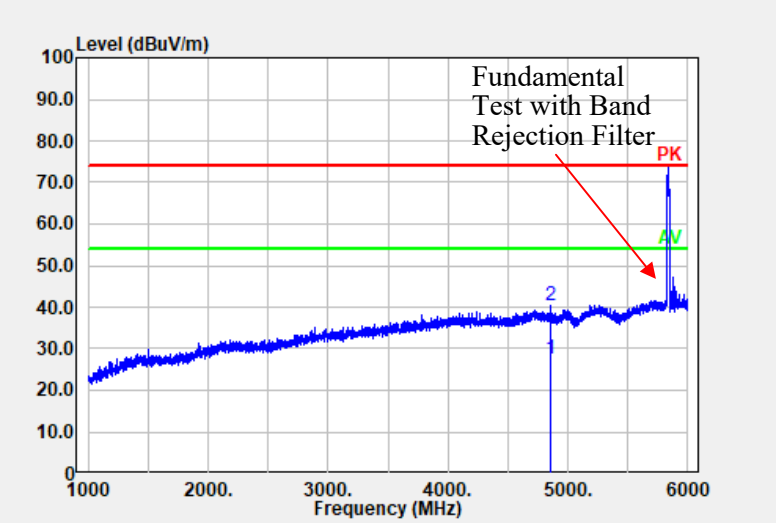
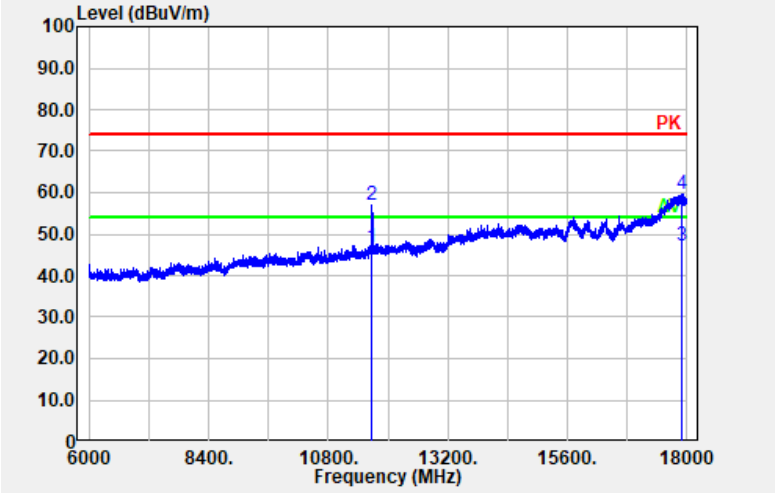
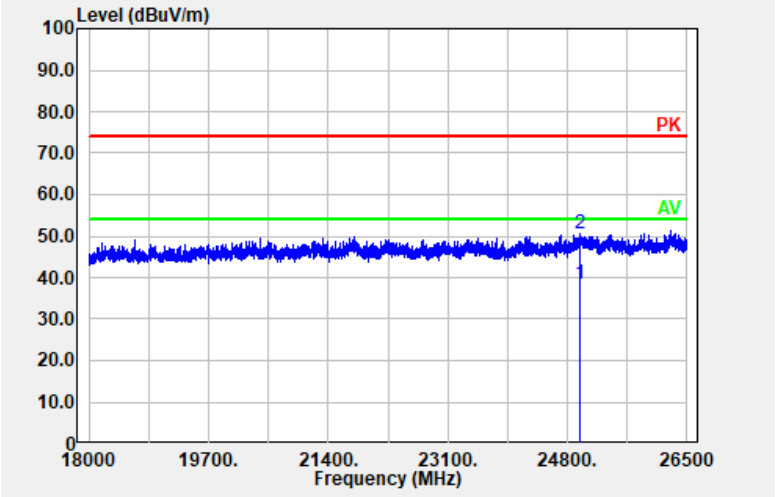
5.8GHz SRD			
Test Channel:	5847MHz	Ant. Polar. :	Horizontal

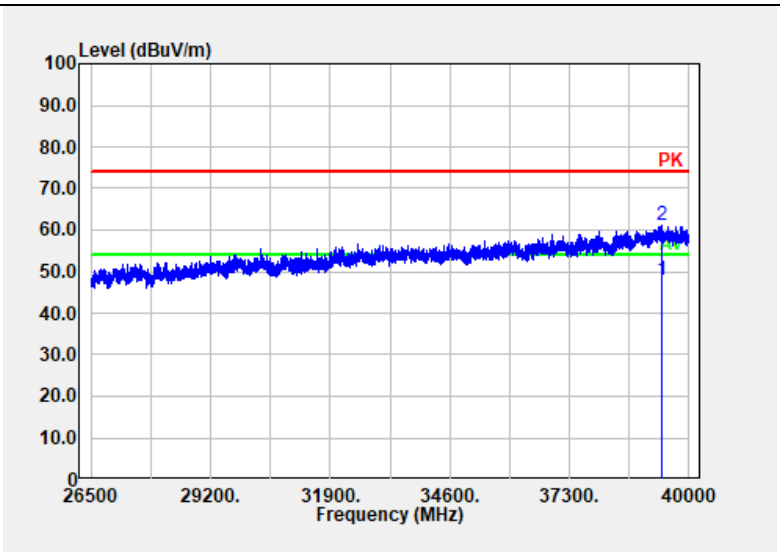


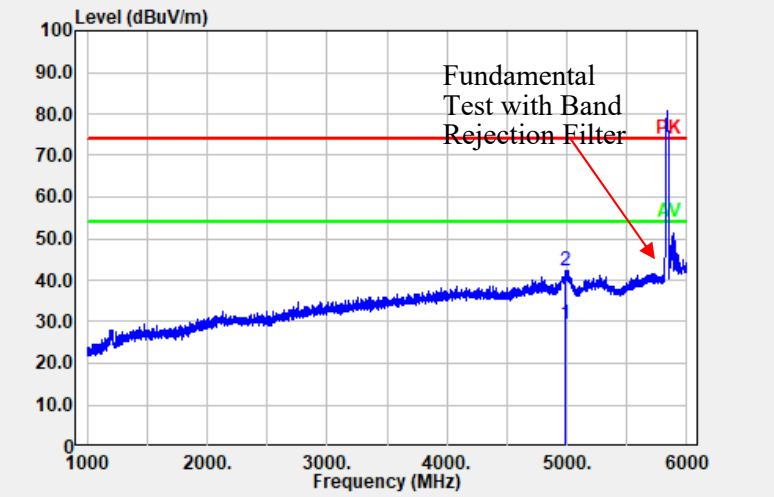
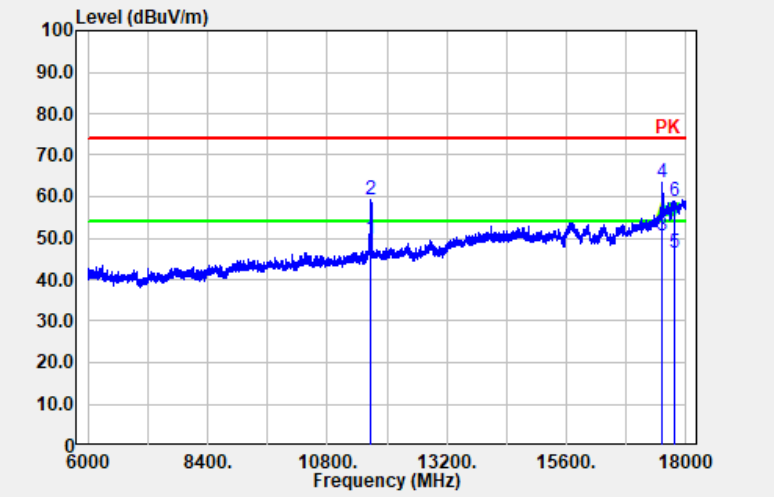
5.8GHz SRD			
Test Channel:	5847MHz	Ant. Polar. :	Vertical

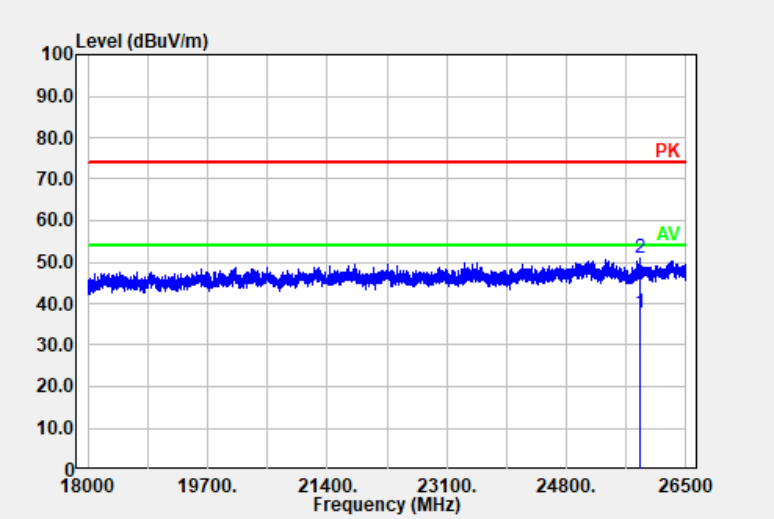
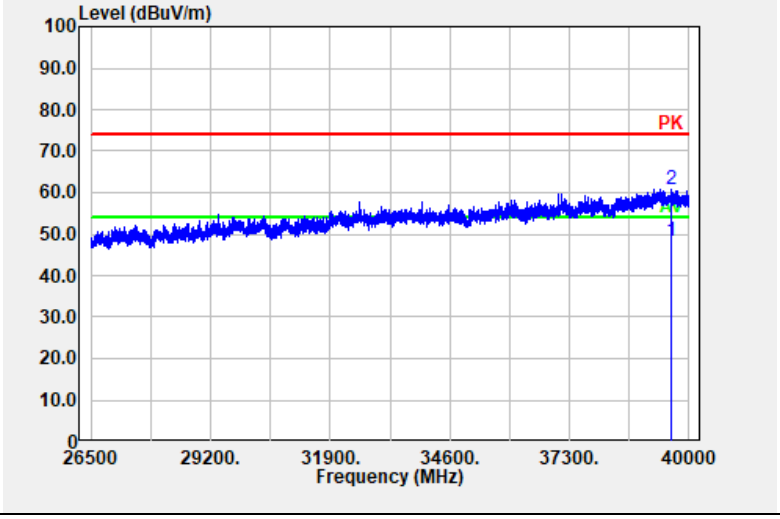


Worst Test plots(1.4M QPSK 5847MHz)

Horizontal	
1-6GHz	
6-18GHz	
18-26.5GHz	

26.5-40GHz	

Vertical	
1-6GHz	
6-18GHz	

18-26.5GHz	
26.5-40GHz	

4.3 Emission Bandwidth:

Serial Number:	278G-1	Test Date:	2023/8/7
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jim Wei	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	28.2	Relative Humidity: (%)	41	ATM Pressure: (kPa)	99.6

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

5150-5250 MHz:

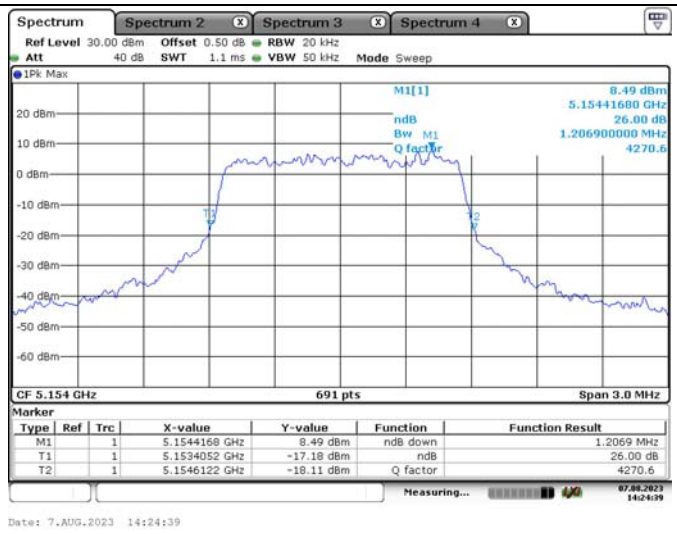
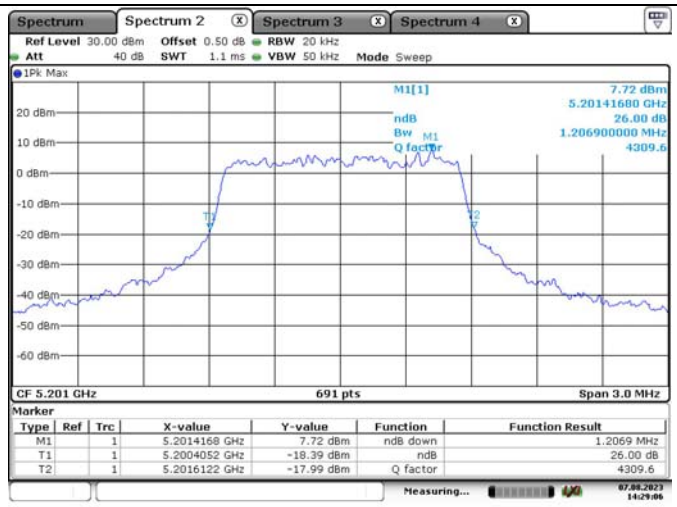
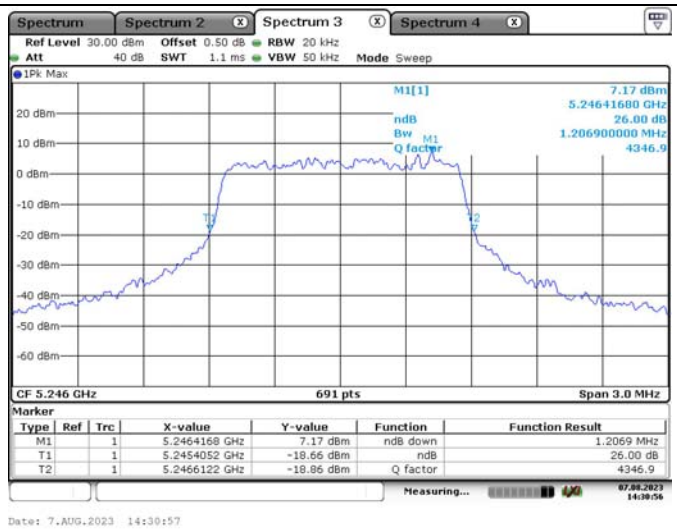
Test Modes	Modulation	Test Frequency (MHz)	26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
1.4M	QPSK	5154	1.207	1.085
		5201	1.207	1.085
		5246	1.207	1.085
	16QAM	5154	1.211	1.085
		5201	1.211	1.085
		5246	1.220	1.085
10M	QPSK	5157	9.551	8.944
		5201	9.551	8.944
		5243	9.551	8.944
	16QAM	5157	9.551	8.944
		5201	9.551	8.944
		5243	9.609	8.944
20M	QPSK	5167	19.161	17.945
		5201	19.161	17.945
		5233	19.161	17.945
	16QAM	5167	19.161	17.945
		5201	19.161	17.945
		5233	19.161	17.945
Note: Test only was performed at Chain 0.The 99% Occupied Bandwidth have not fall into the band 5250-5350MHz, please refer to the test plots of 99% Occupied Bandwidth.				

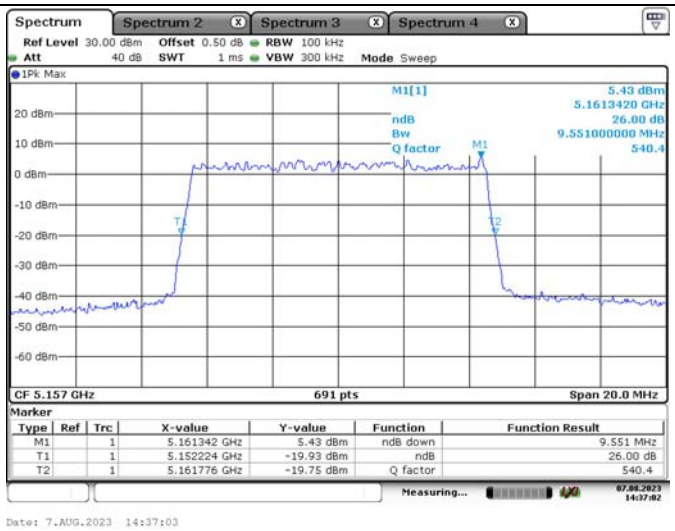
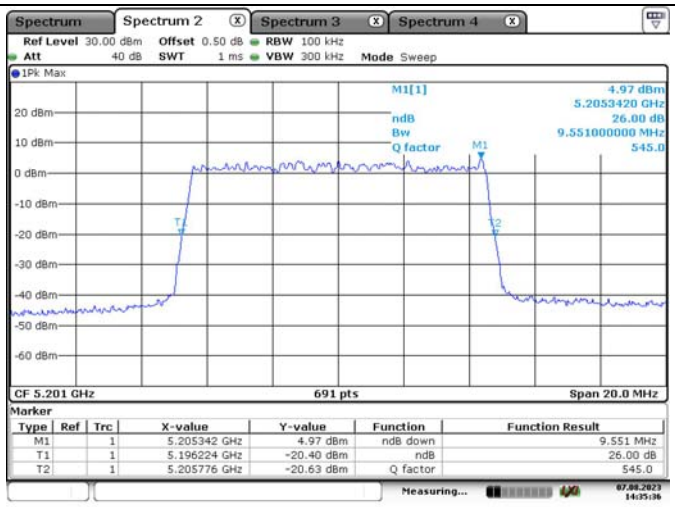
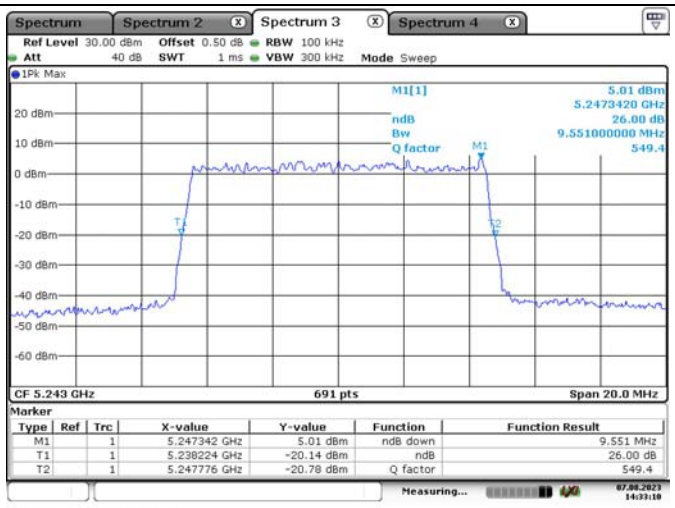
5725-5850 MHz:

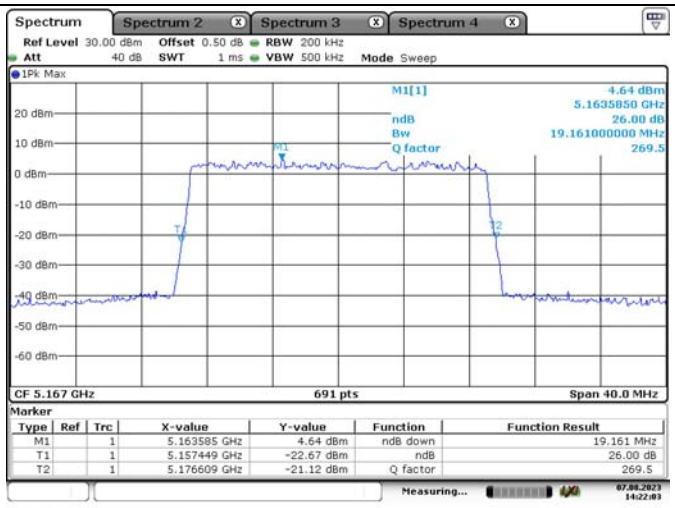
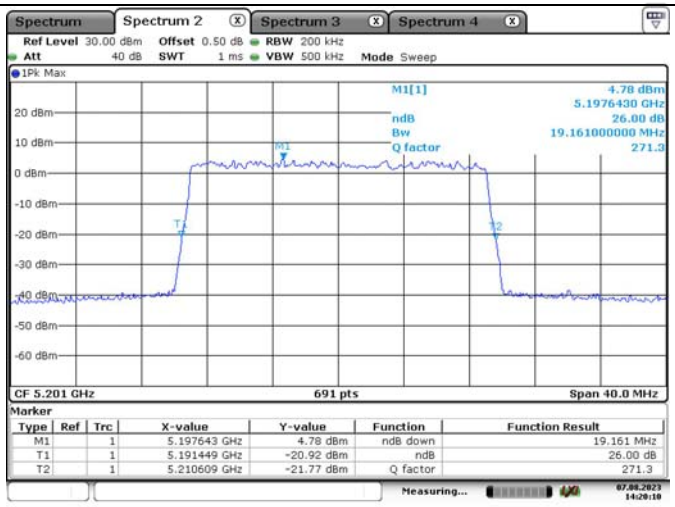
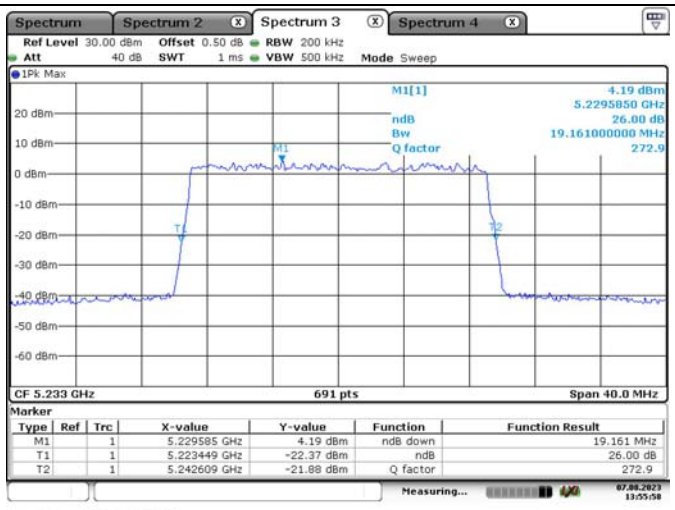
Test Modes	Modulation	Test Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
1.4M	QPSK	5728	1.151	1.103
		5789	1.138	1.094
		5847	1.133	1.090
	16QAM	5728	1.151	1.107
		5789	1.138	1.094
		5847	1.138	1.098
10M	QPSK	5733	9.001	8.944
		5789	9.001	8.944
		5842	9.001	8.944
	16QAM	5733	9.001	8.944
		5789	9.001	8.944
		5842	9.030	8.944
20M	QPSK	5738	18.061	17.945
		5790	18.061	17.945
		5839	18.061	17.945
	16QAM	5738	18.061	17.945
		5790	18.061	17.945
		5839	18.061	17.945

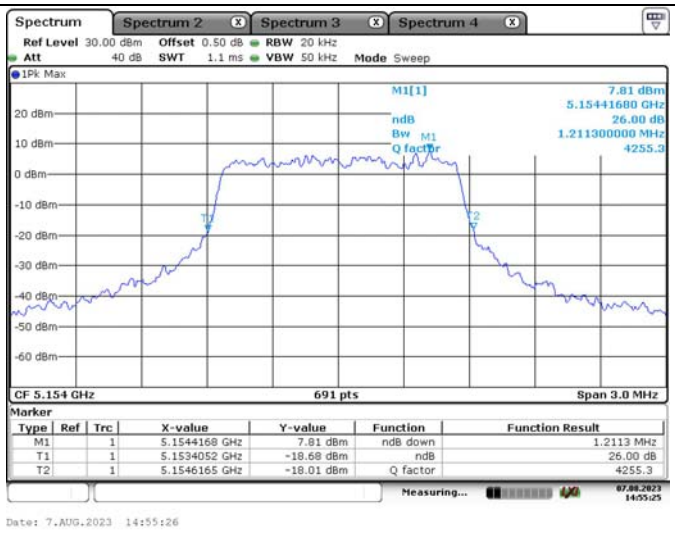
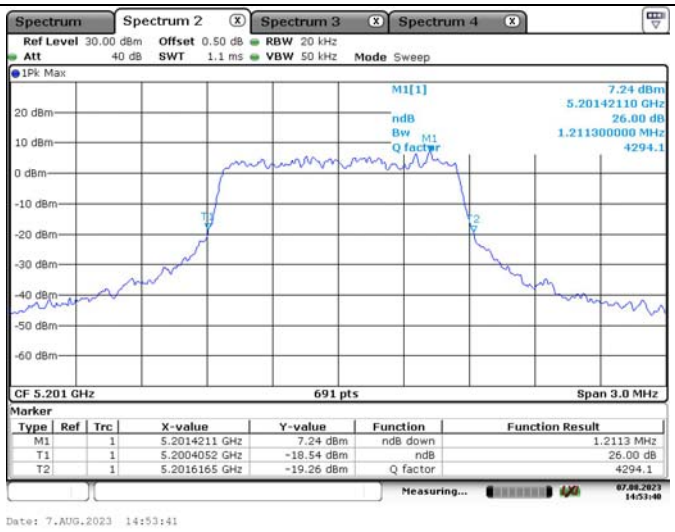
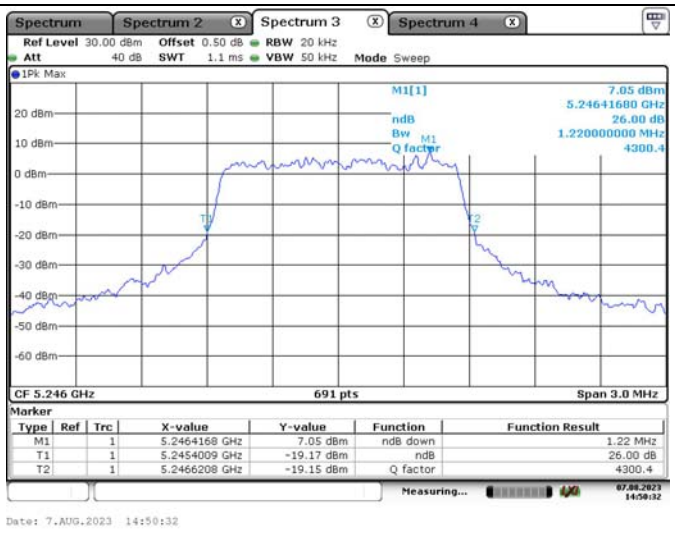
Note:
6dB Emission Bandwidth Limit: ≥0.5 MHz
Test only was performed at Chain 0.
The 99% Occupied Bandwidth have not fall into the band 5470-5725MHz, please refer to the test plots of 99% Occupied Bandwidth.

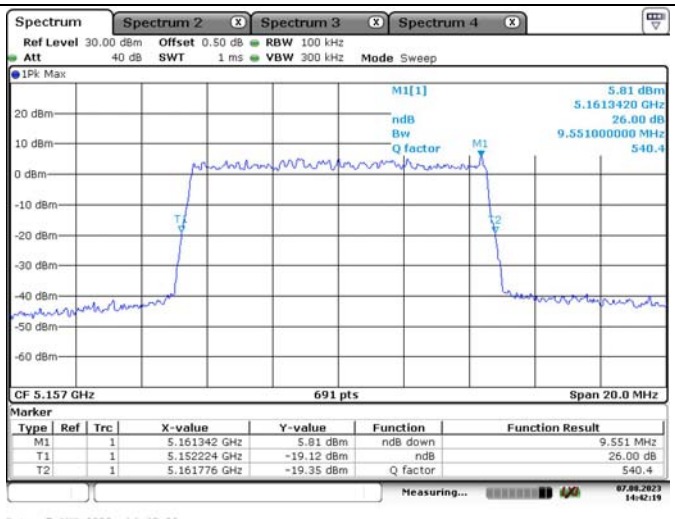
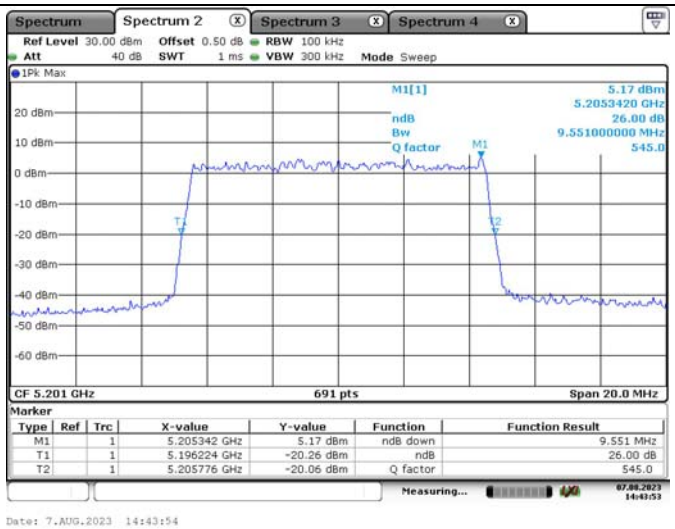
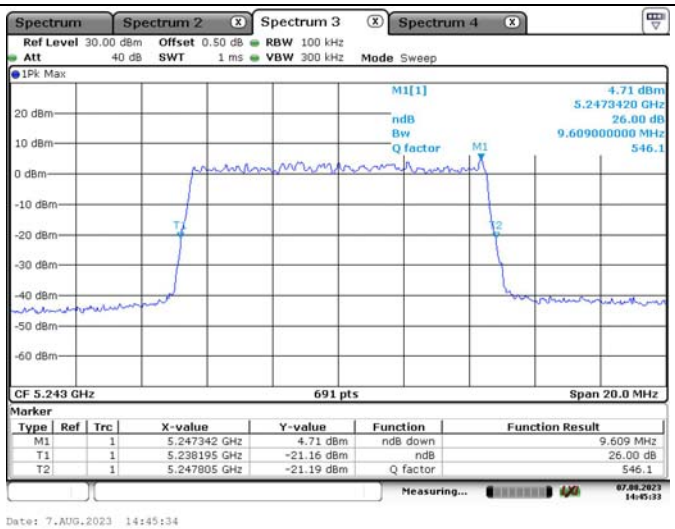
5150-5250MHz:

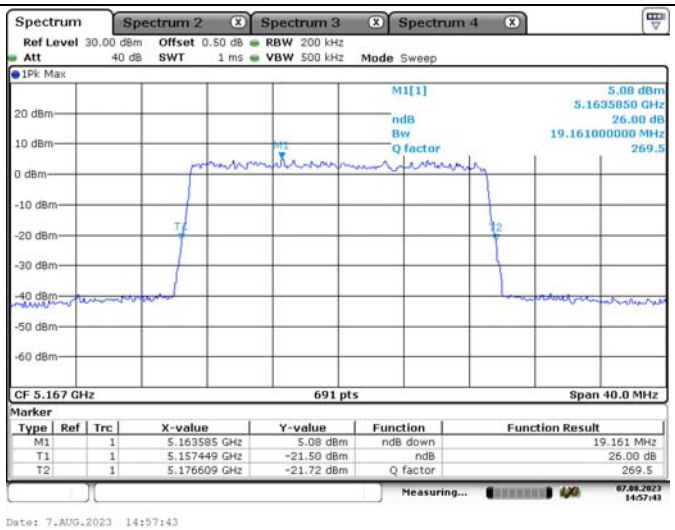
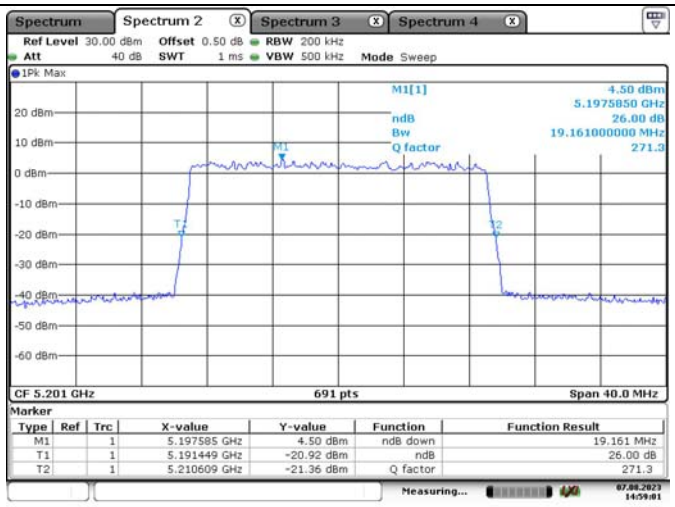
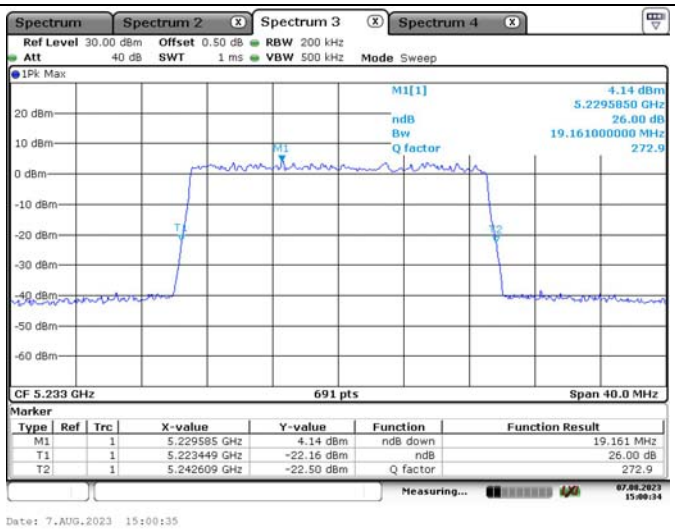
26dB Emission Bandwidth	
QPSK, 1.4M Lowest Channel	
QPSK,1.4M Middle Channel	
QPSK,1.4M Highest Channel	

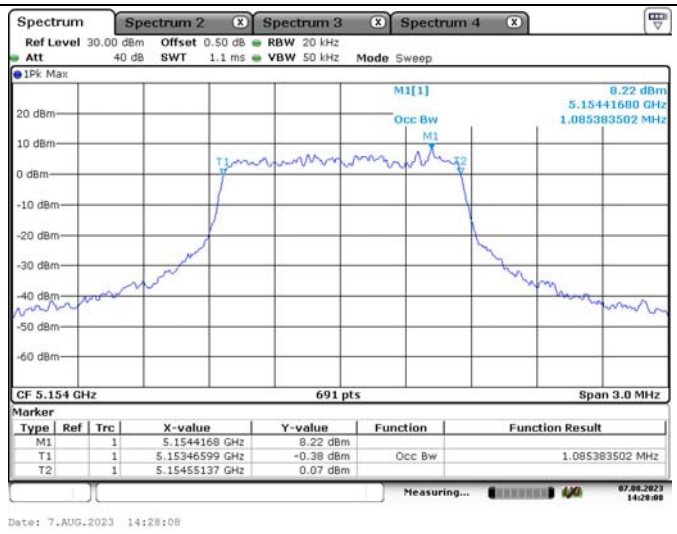
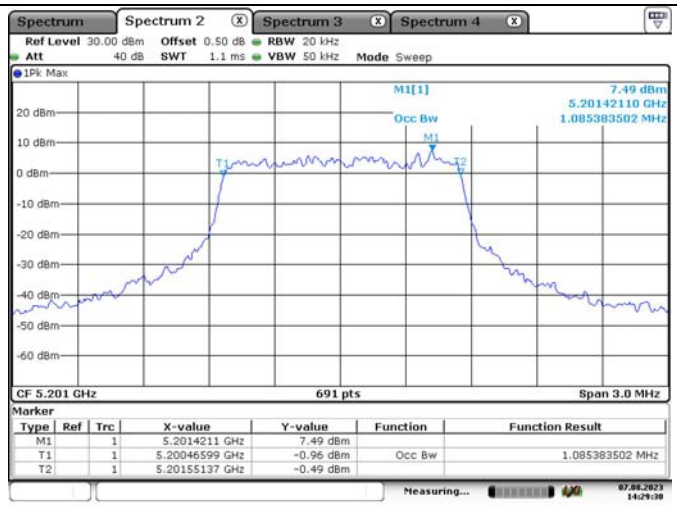
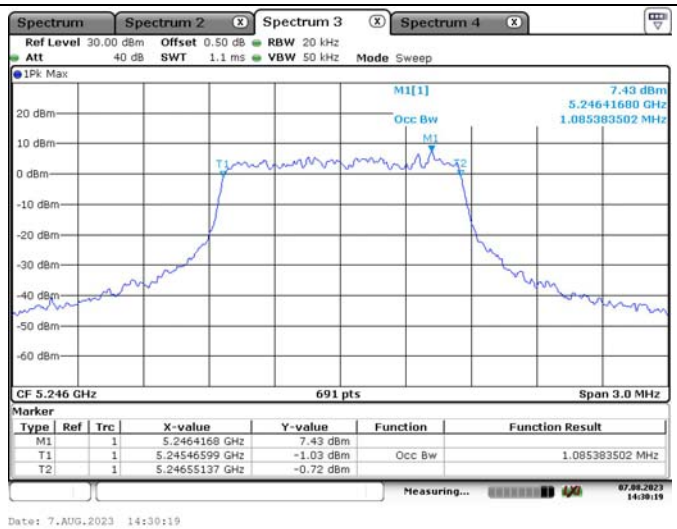
26dB Emission Bandwidth	
QPSK,10M Lowest Channel	
QPSK,10M Middle Channel	
QPSK,10M Highest Channel	

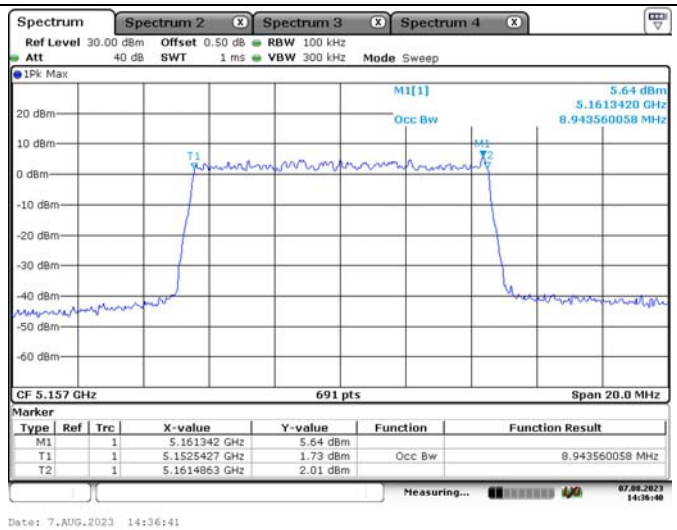
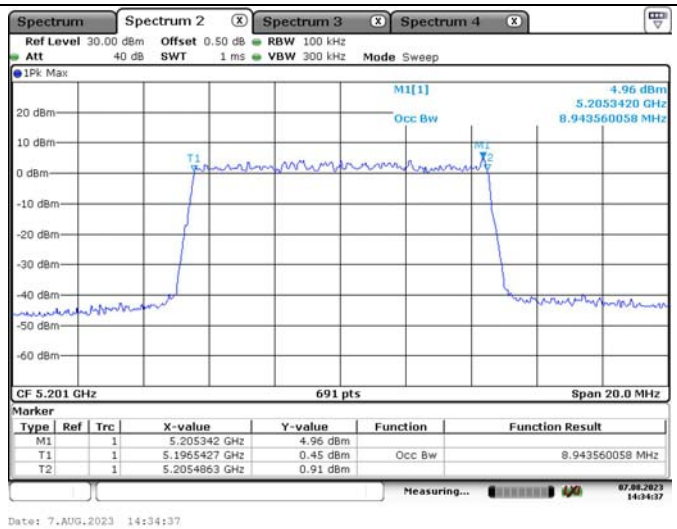
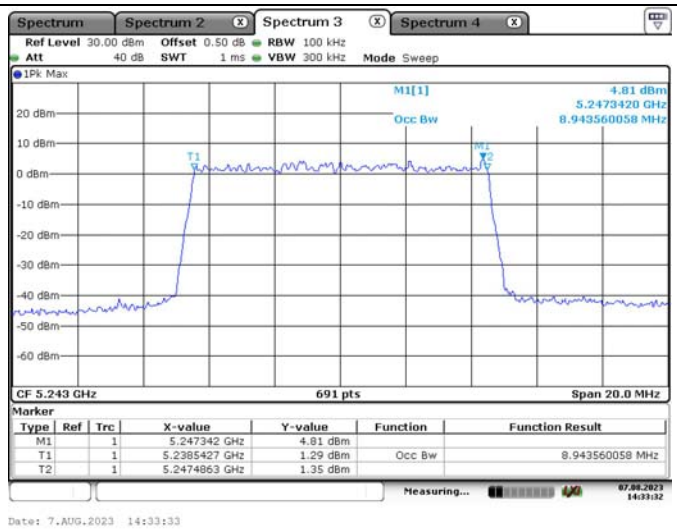
26dB Emission Bandwidth	
QPSK,20M Lowest Channel	
QPSK,20M Middle Channel	
QPSK,20M Highest Channel	

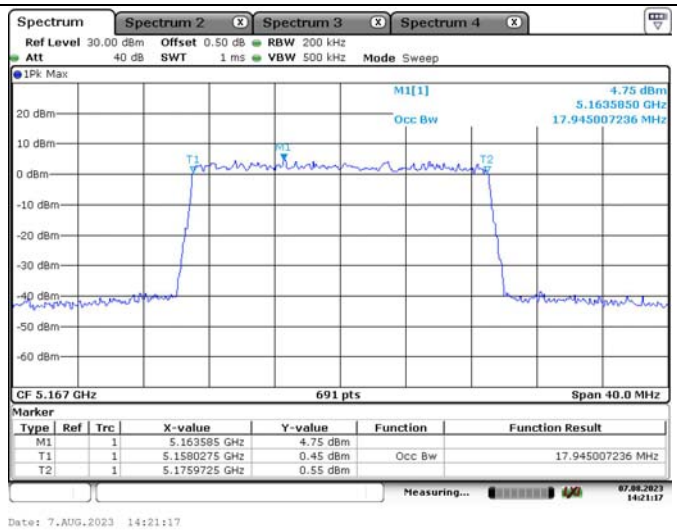
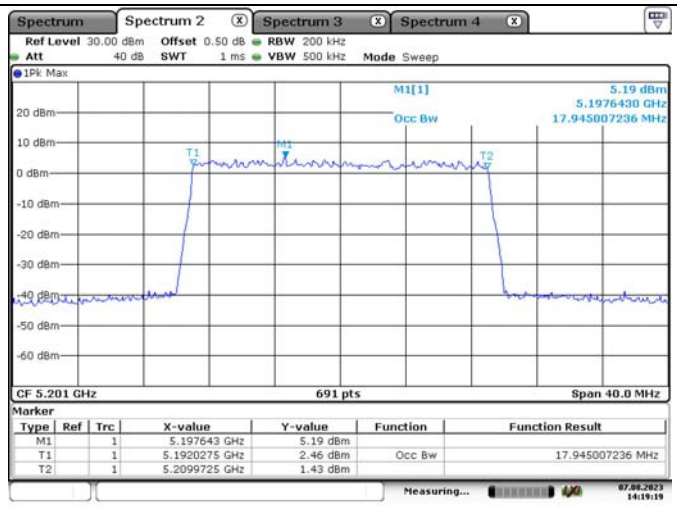
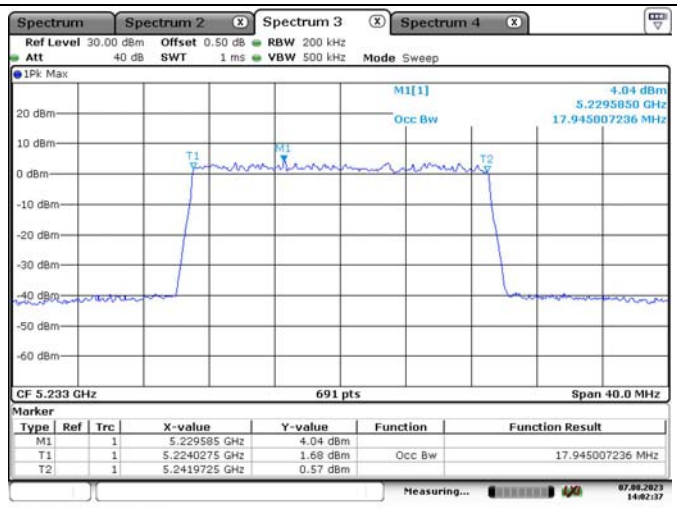
26dB Emission Bandwidth	
16QAM,1.4M Lowest Channel	
16QAM,1.4M Middle Channel	
16QAM,1.4M Highest Channel	

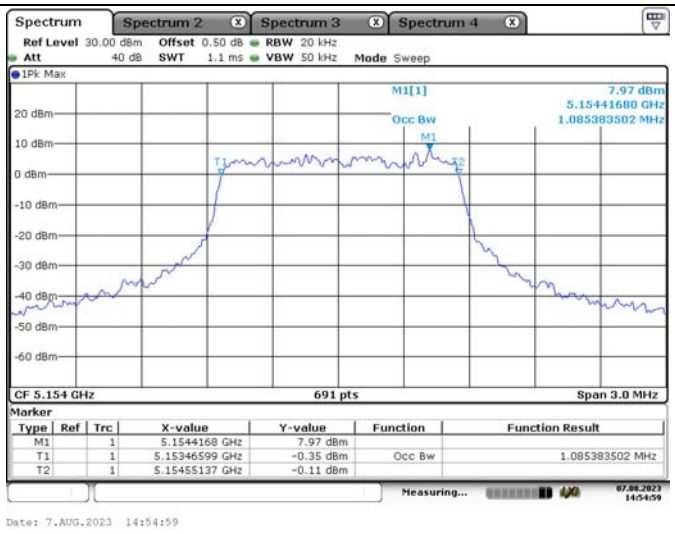
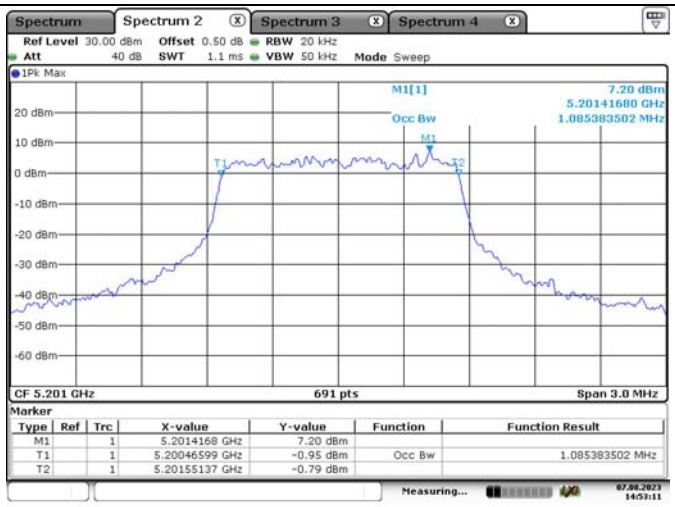
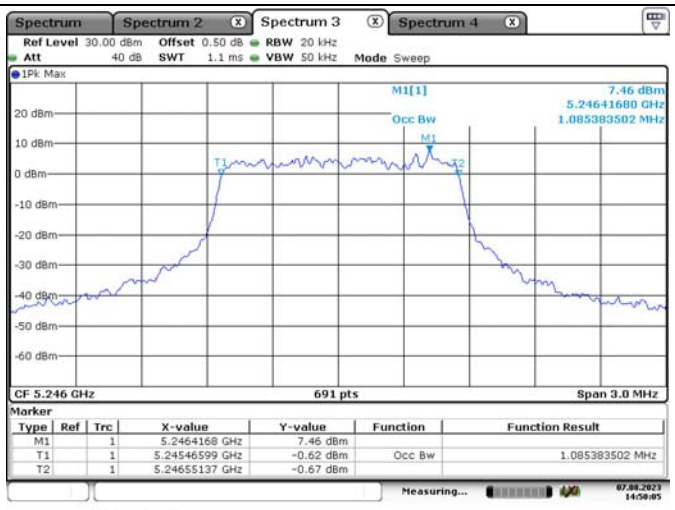
26dB Emission Bandwidth	
16QAM,10M Lowest Channel	
16QAM,10M Middle Channel	
16QAM,10M Highest Channel	

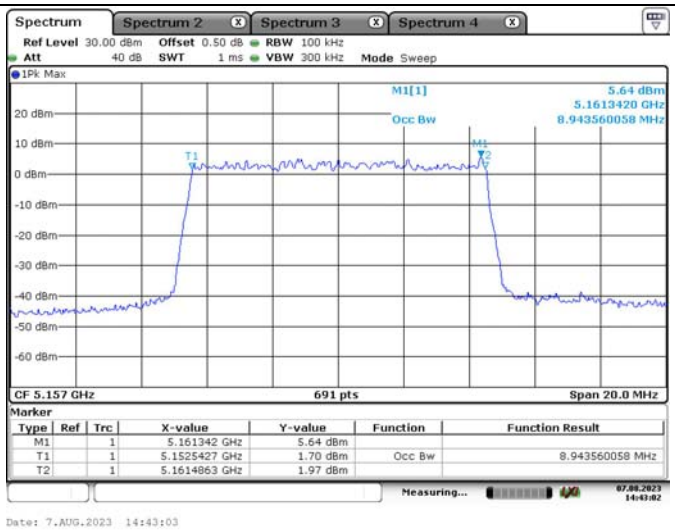
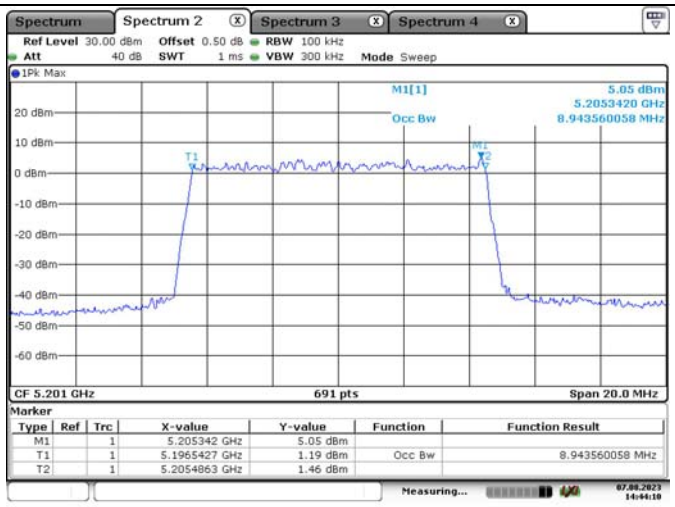
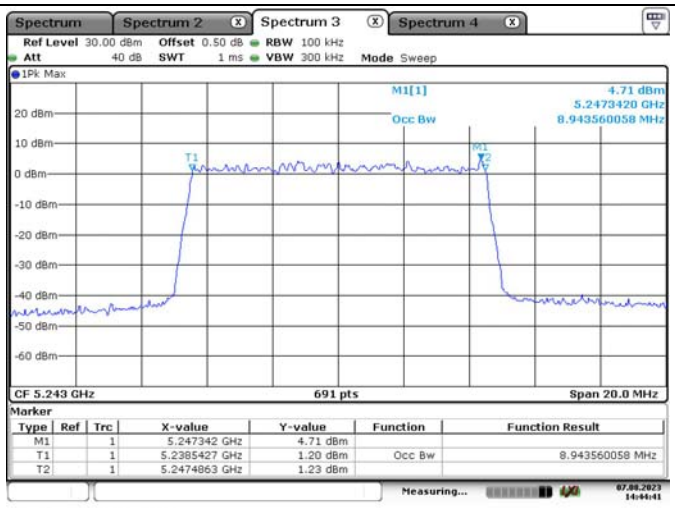
26dB Emission Bandwidth	
16QAM,20M Lowest Channel	
16QAM,20M Middle Channel	
16QAM,20M Highest Channel	

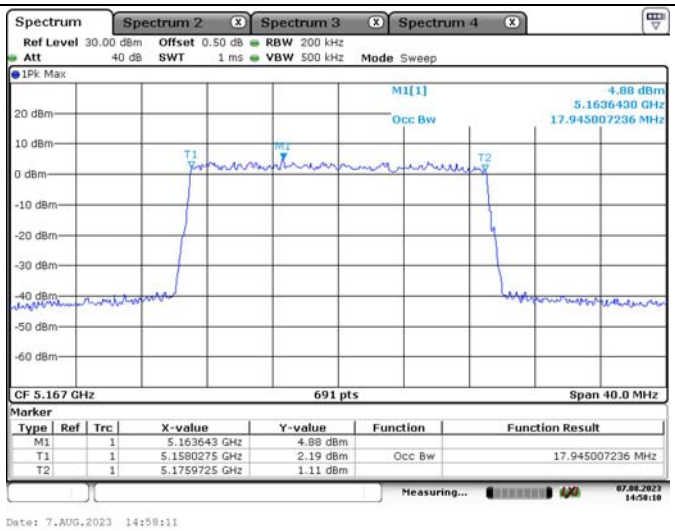
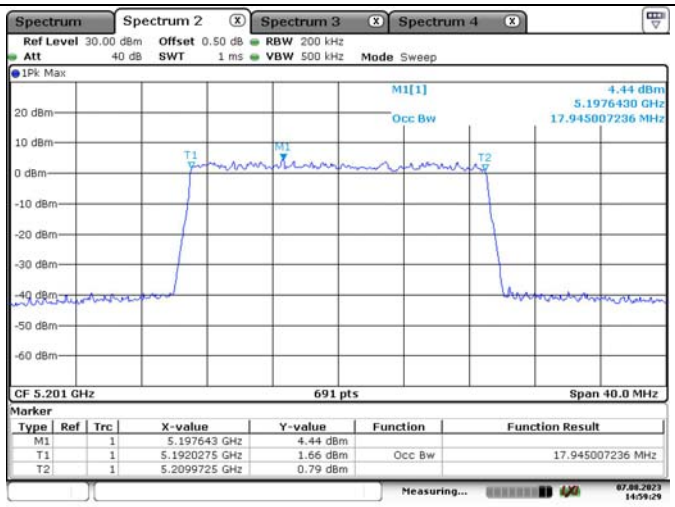
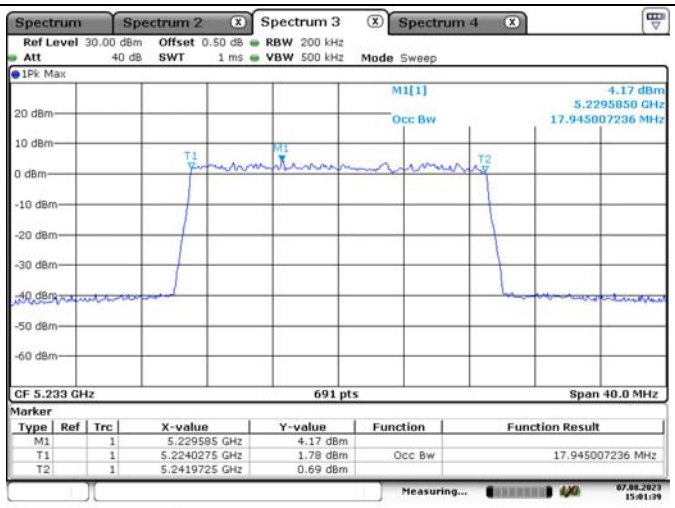
99% Emission Bandwidth-QPSK	
QPSK, 1.4M Lowest Channel	
QPSK,1.4M Middle Channel	
QPSK,1.4M Highest Channel	

99% Emission Bandwidth	
QPSK,10M Lowest Channel	
QPSK,10M Middle Channel	
QPSK,10M Highest Channel	

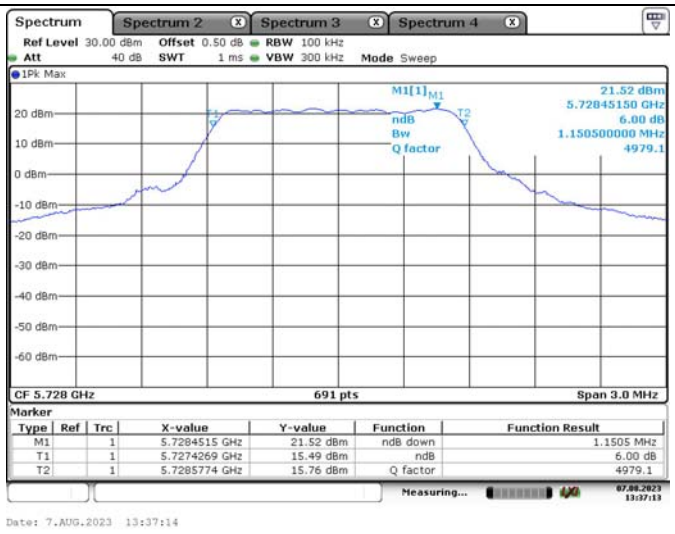
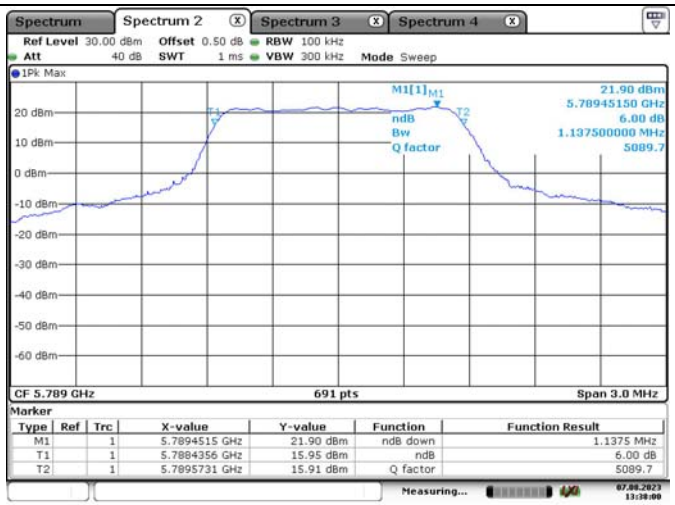
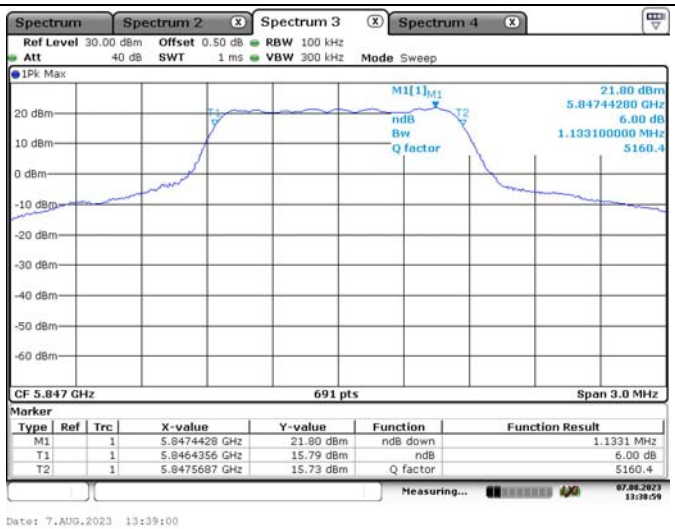
99% Emission Bandwidth	
QPSK,20M Lowest Channel	
QPSK,20M Middle Channel	
QPSK,20M Highest Channel	

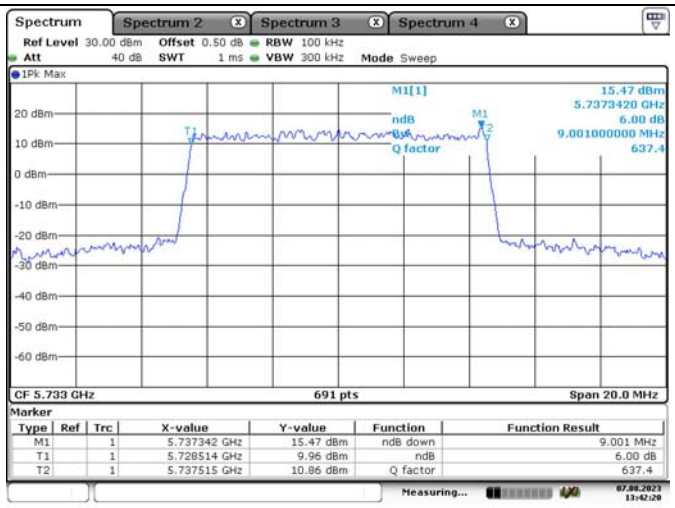
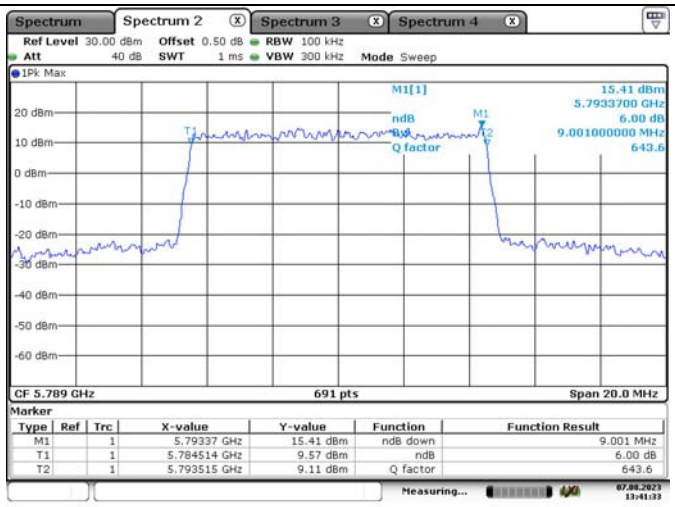
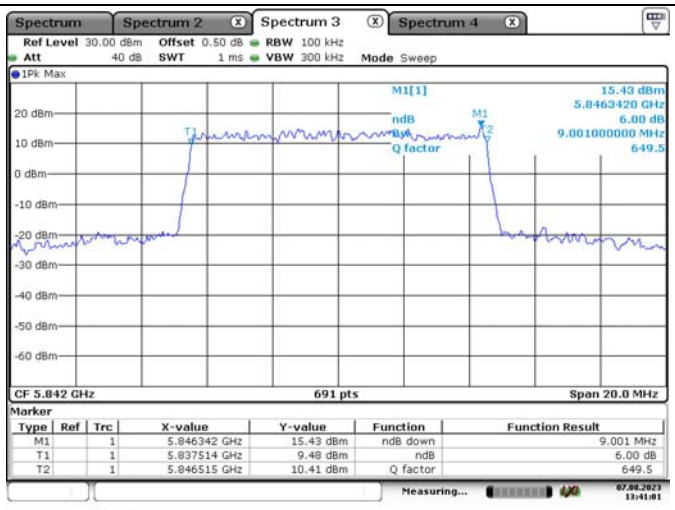
99% Emission Bandwidth-	
16QAM, 1.4M Lowest Channel	
16QAM,1.4M Middle Channel	
16QAM,1.4M Highest Channel	

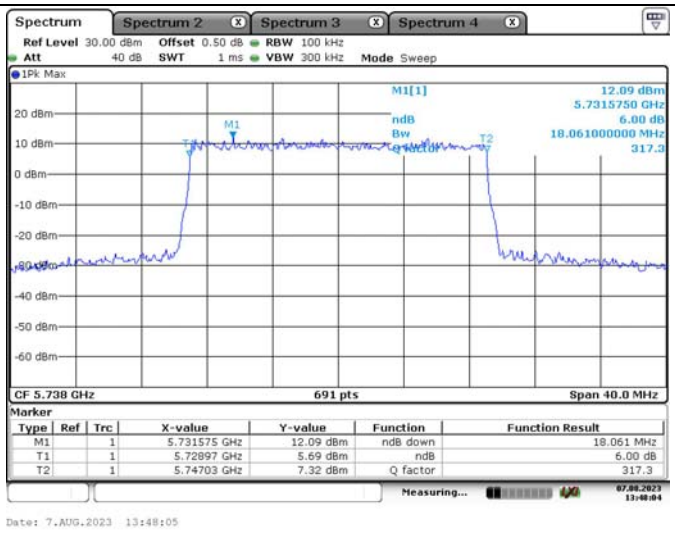
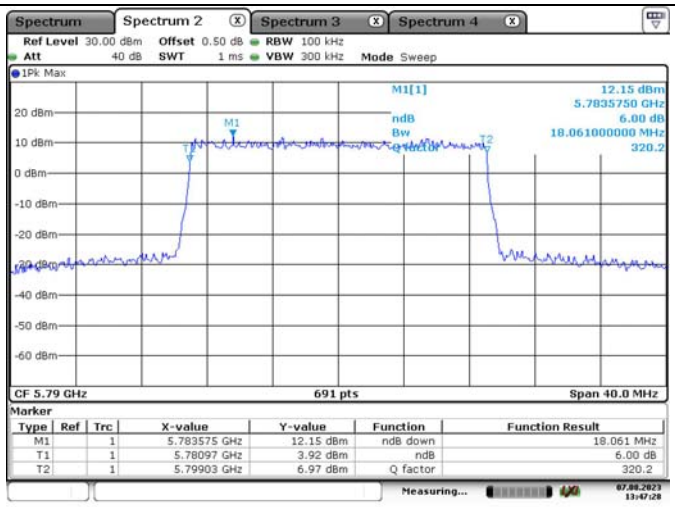
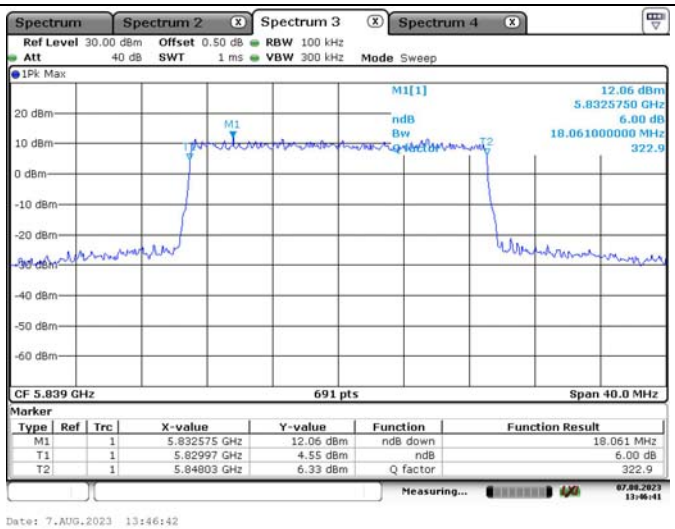
99% Emission Bandwidth	
16QAM,10M Lowest Channel	
16QAM,10M Middle Channel	
16QAM,10M Highest Channel	

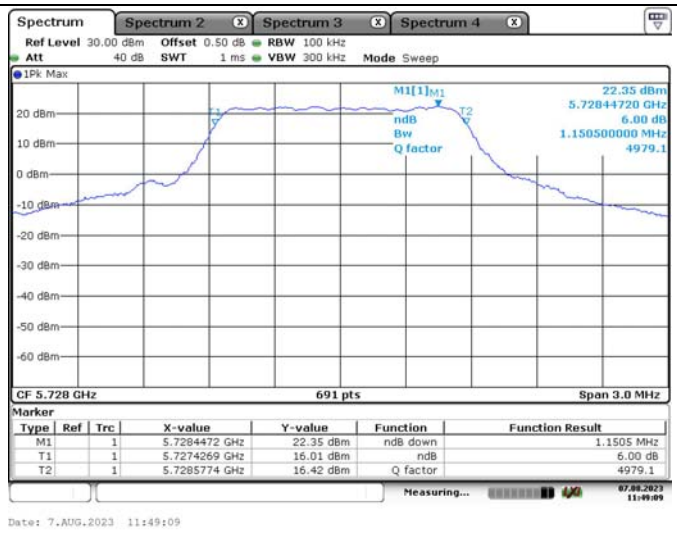
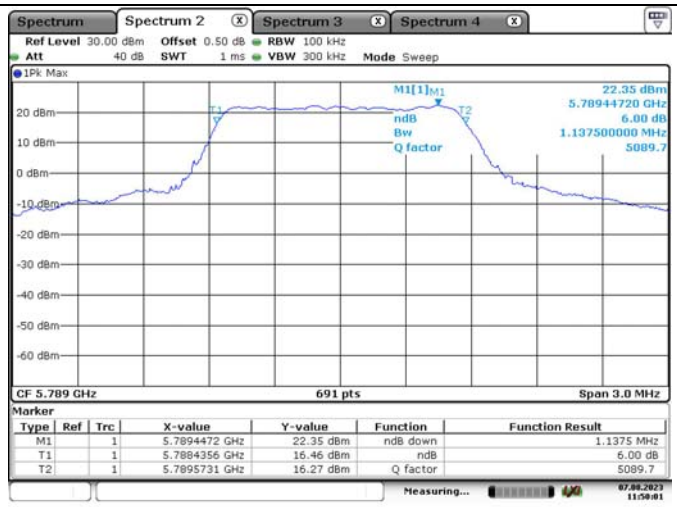
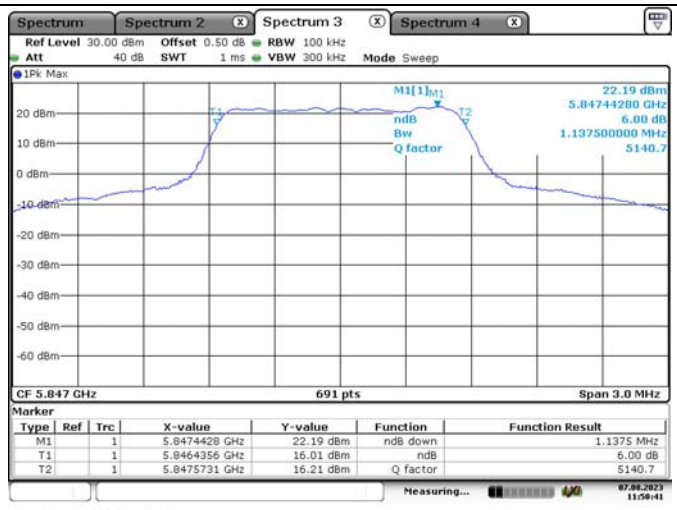
99% Emission Bandwidth	
16QAM,20M Lowest Channel	
16QAM,20M Middle Channel	
16QAM,20M Highest Channel	

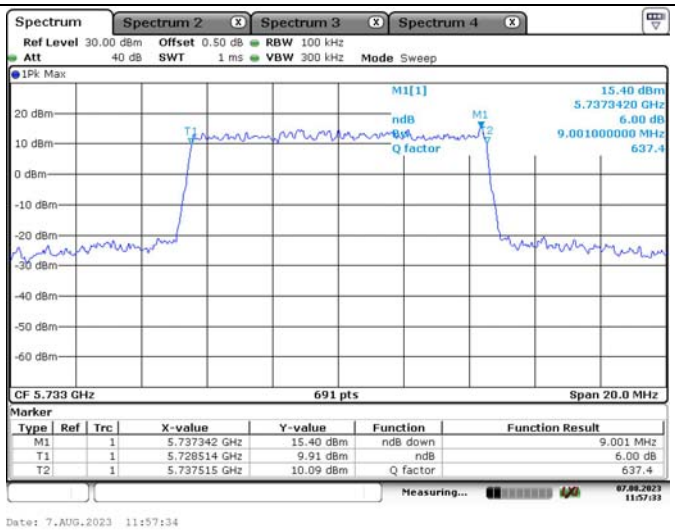
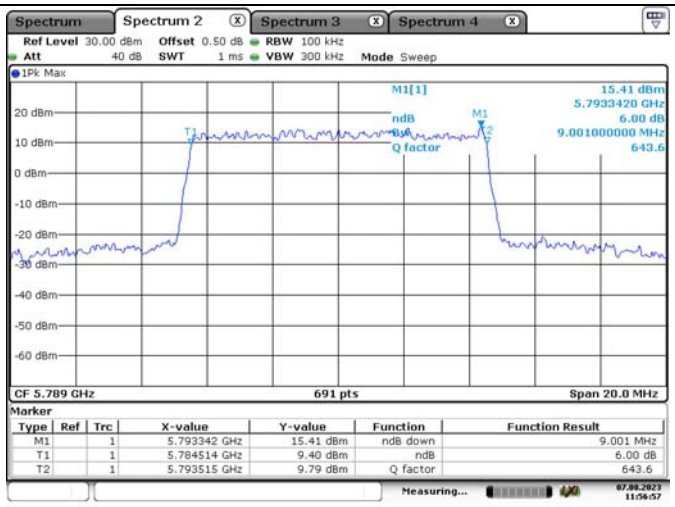
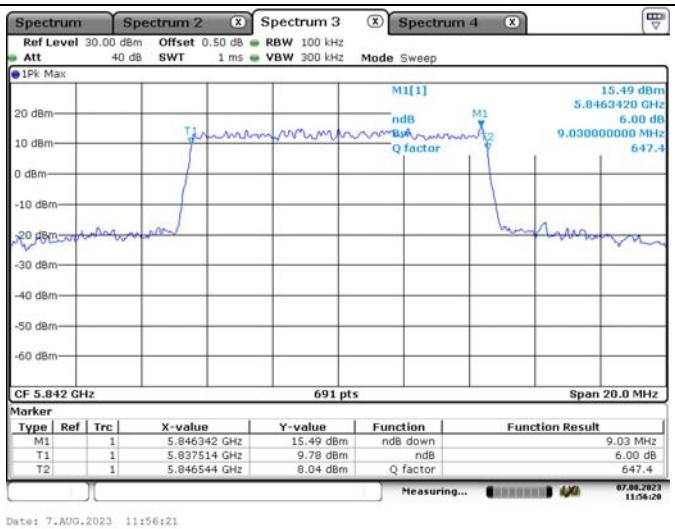
5725-5850MHz:

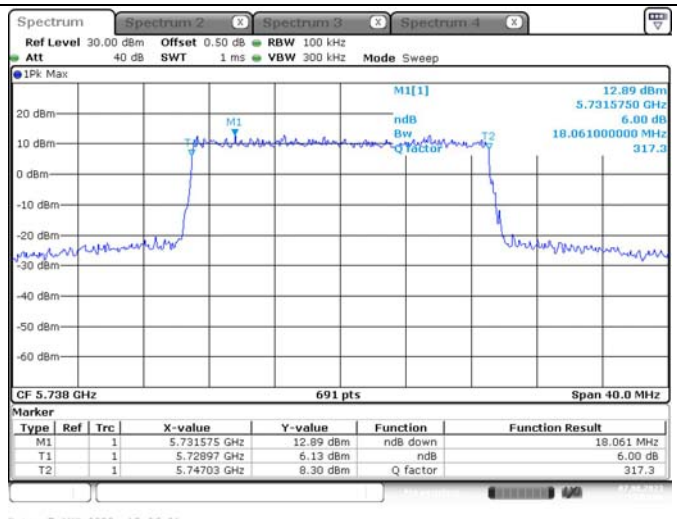
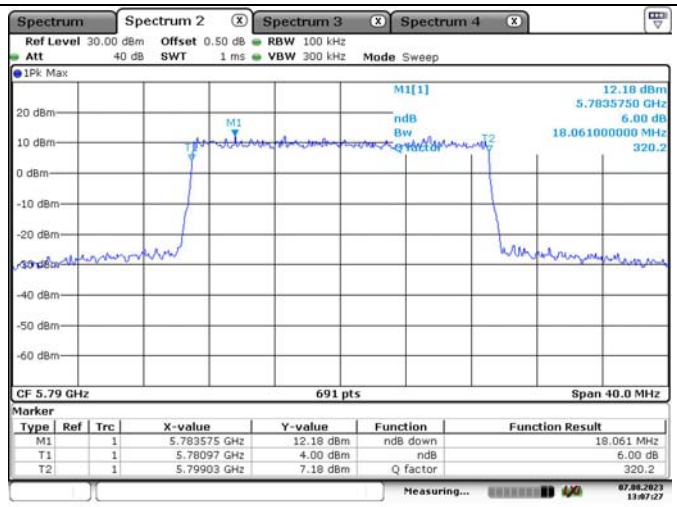
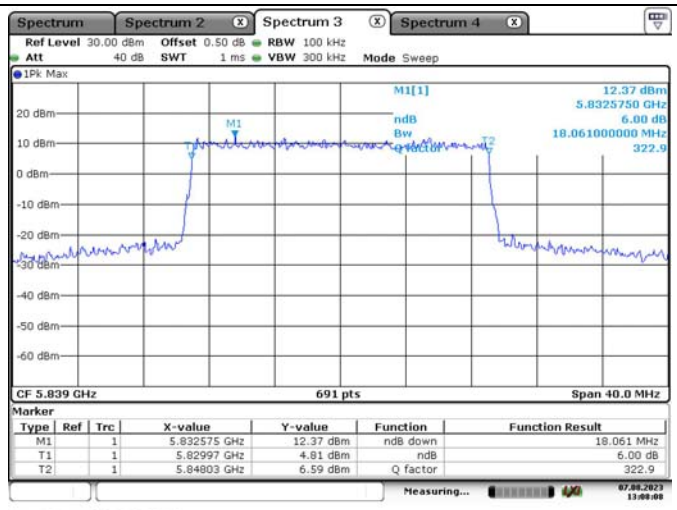
6dB Emission Bandwidth	
QPSK, 1.4M Lowest Channel	
QPSK, 1.4M Middle Channel	
QPSK, 1.4M Highest Channel	

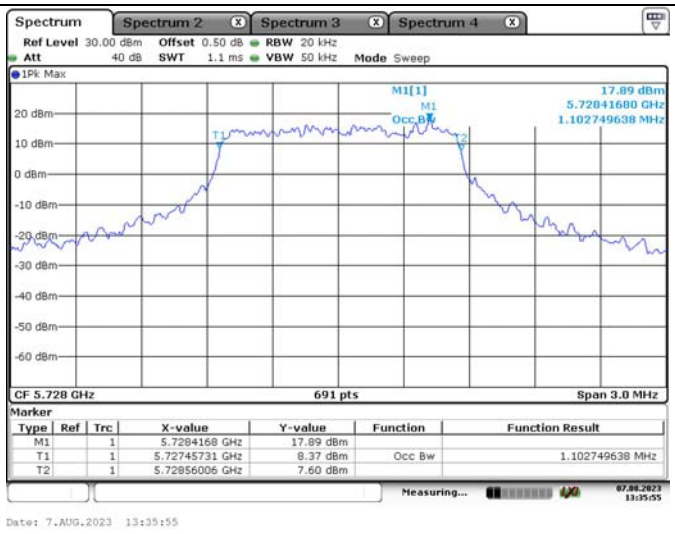
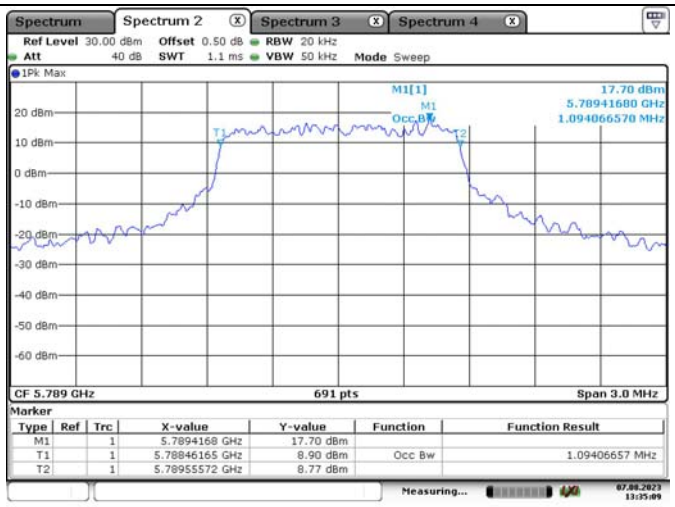
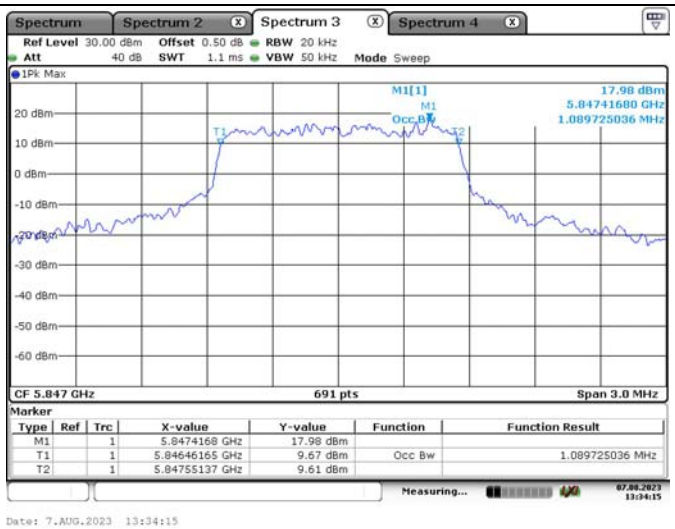
6dB Emission Bandwidth	
QPSK, 10M Lowest Channel	
QPSK, 10M Middle Channel	
QPSK, 10M Highest Channel	

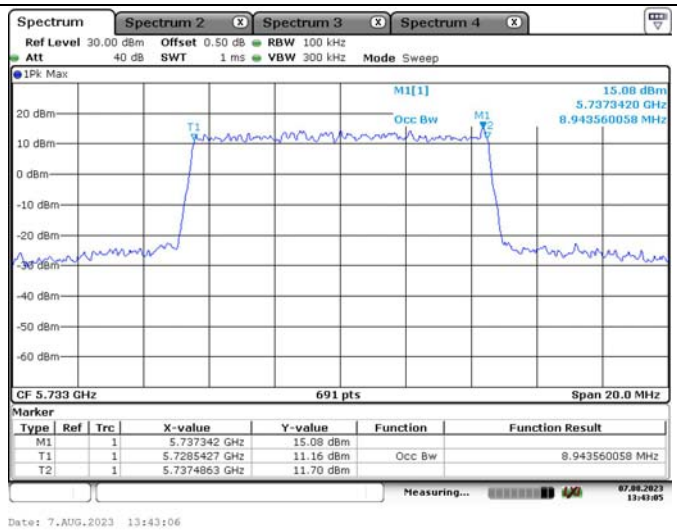
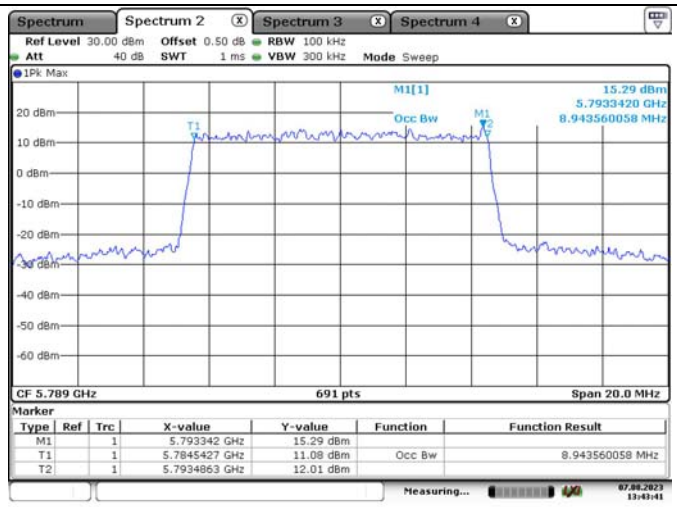
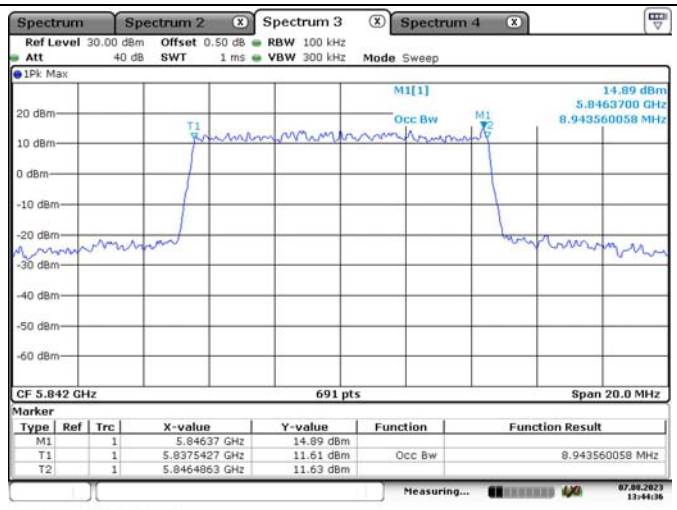
6dB Emission Bandwidth	
QPSK, 20M Lowest Channel	
QPSK, 20M Middle Channel	
QPSK, 20M Highest Channel	

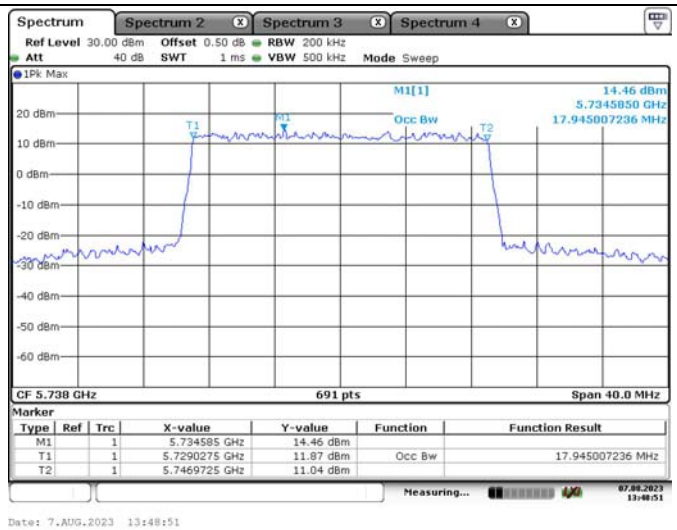
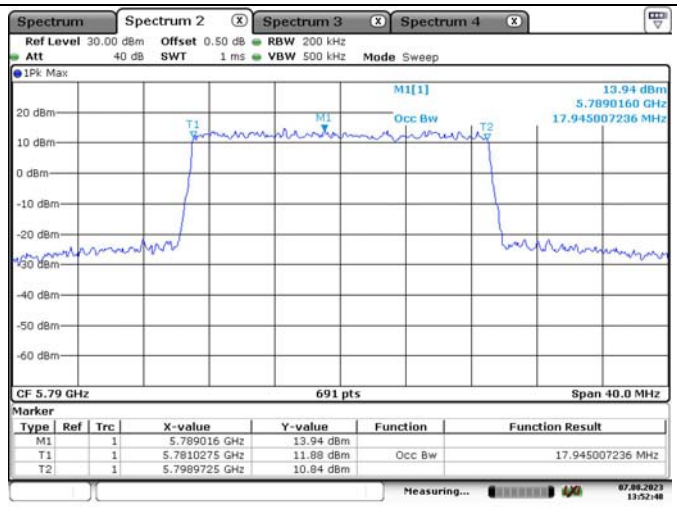
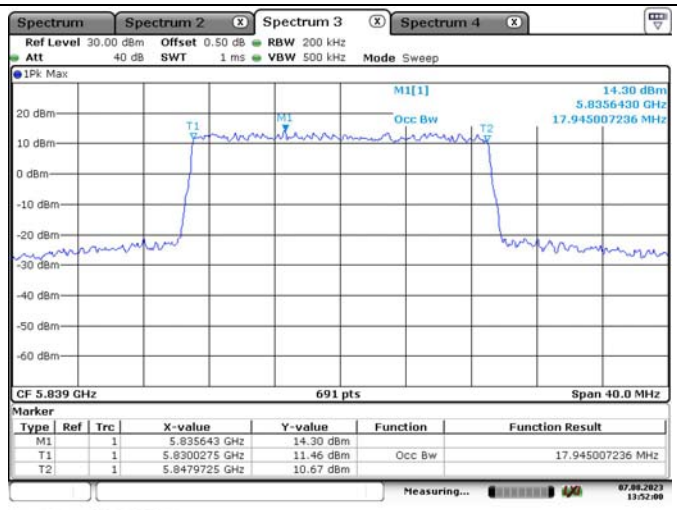
6dB Emission Bandwidth	
16QAM, 1.4M Lowest Channel	
16QAM,1.4M Middle Channel	
16QAM,1.4M Highest Channel	

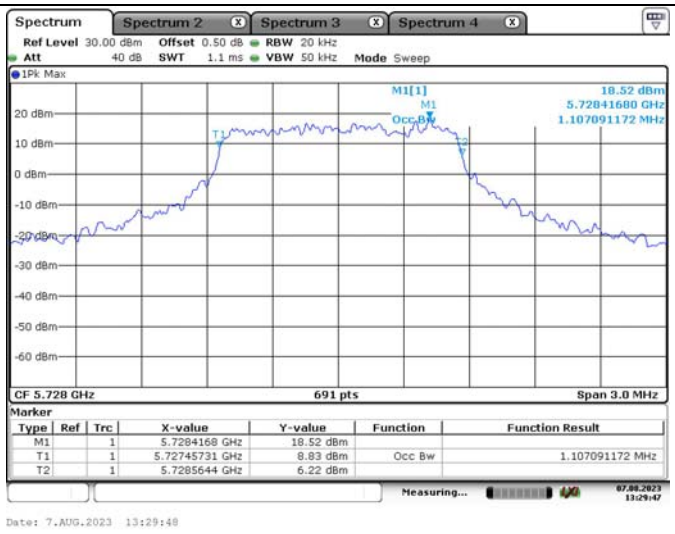
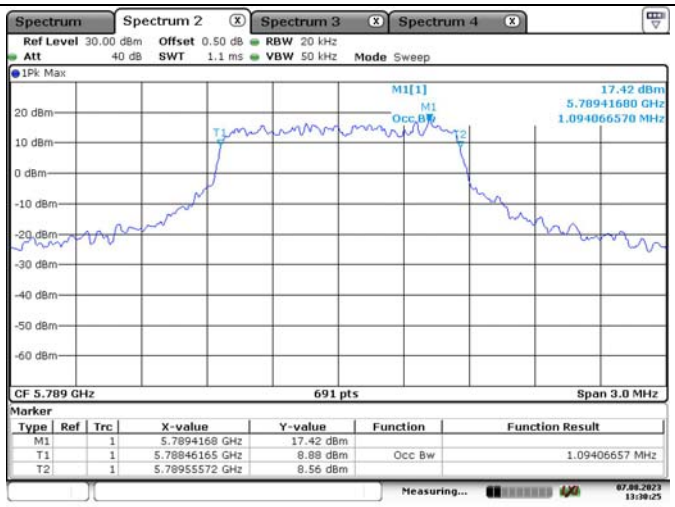
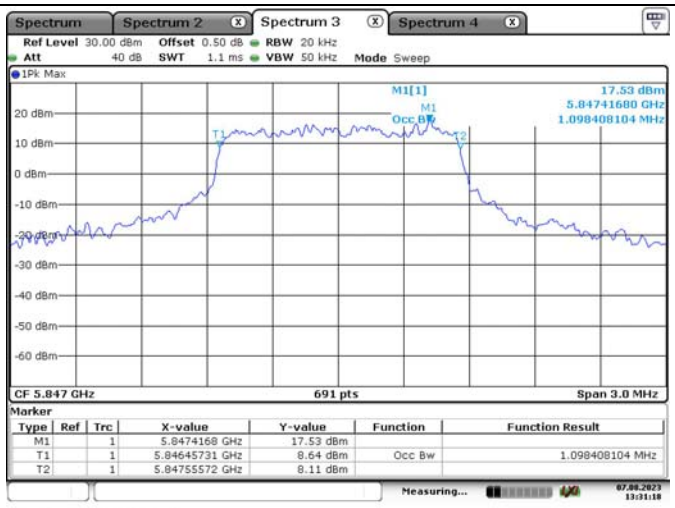
6dB Emission Bandwidth	
16QAM,10M Lowest Channel	
16QAM,10M Middle Channel	
16QAM,10M Highest Channel	

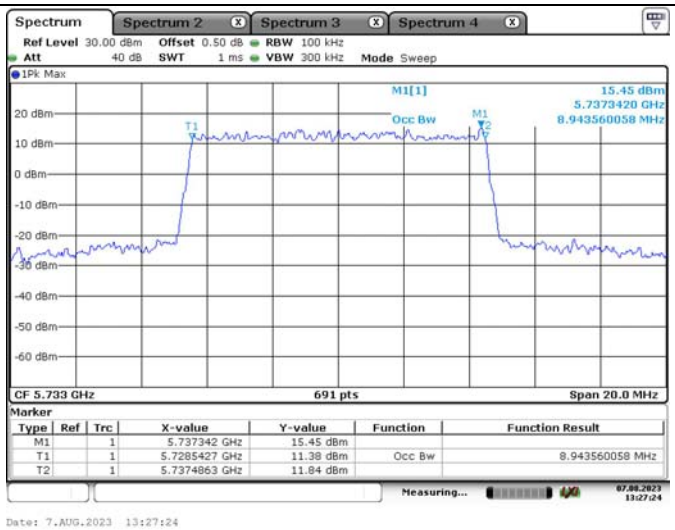
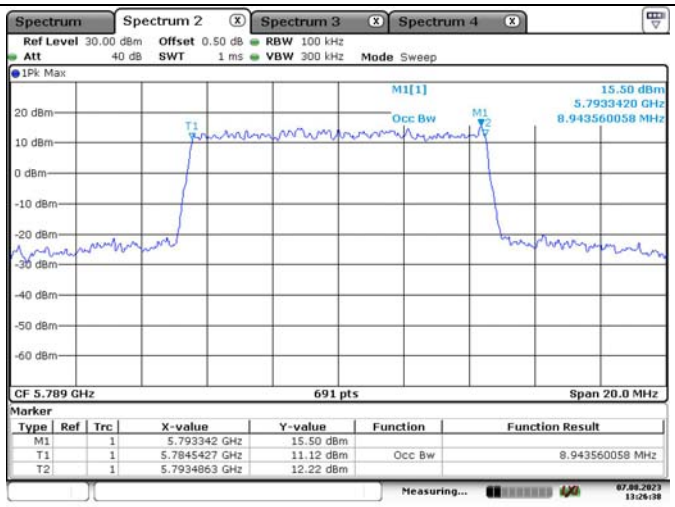
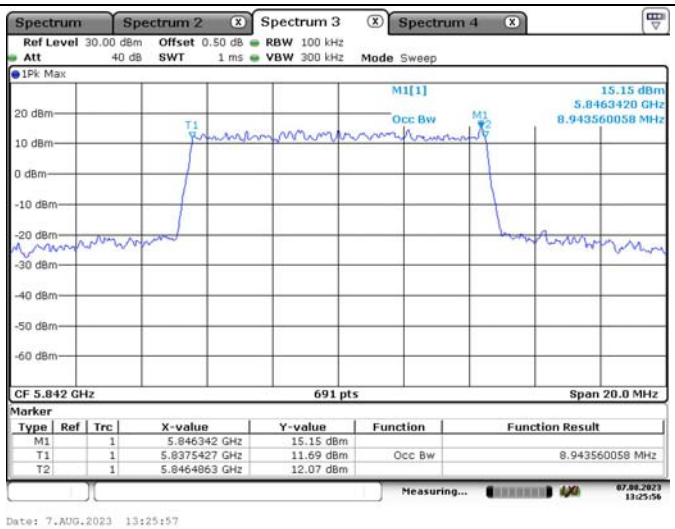
6dB Emission Bandwidth	
16QAM,20M Lowest Channel	
16QAM,20M Middle Channel	
16QAM,20M Highest Channel	

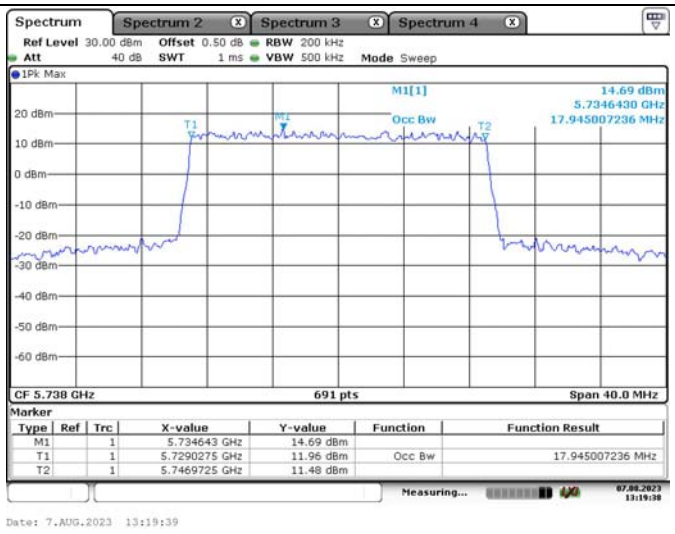
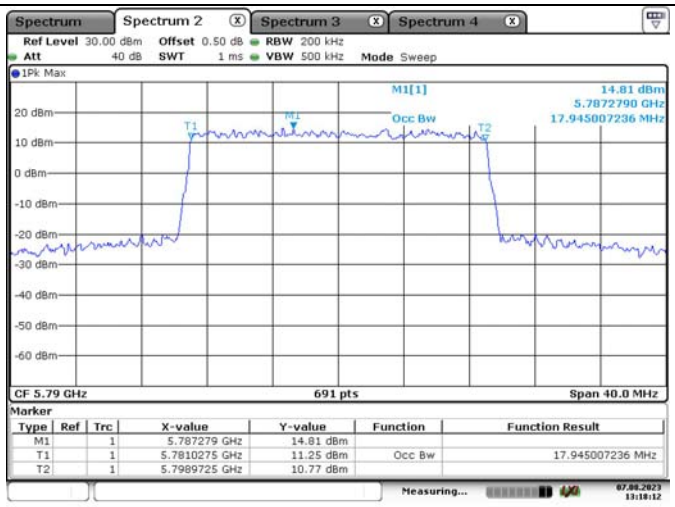
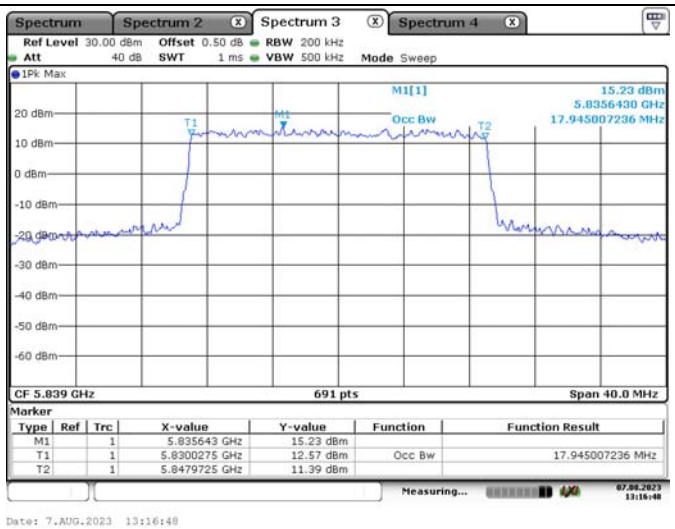
99% Emission Bandwidth	
QPSK,1.4M Lowest Channel	
QPSK,1.4M Middle Channel	
QPSK,1.4M Highest Channel	

99% Emission Bandwidth	
QPSK,10M Lowest Channel	
QPSK,10M Middle Channel	
QPSK,10M Highest Channel	

99% Emission Bandwidth	
QPSK,20M Lowest Channel	
QPSK,20M Middle Channel	
QPSK,20M Highest Channel	

99% Emission Bandwidth	
16QAM, 1.4M Lowest Channel	
16QAM,1.4M Middle Channel	
16QAM,1.4M Highest Channel	

99% Emission Bandwidth	
16QAM,10M Lowest Channel	
16QAM,10M Middle Channel	
16QAM,10M Highest Channel	

99% Emission Bandwidth	
16QAM,20M Lowest Channel	
16QAM,20M Middle Channel	
16QAM,20M Highest Channel	

4.5 Maximum Conducted Output Power:

Serial Number:	278G-1	Test Date:	2023/08/06-2023/08/7
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jim Wei	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	27.1-28.2	Relative Humidity: (%)	41-47	ATM Pressure: (kPa)	99.6-100

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	USB Wideband Power Sensor	U2021XA	MY54080015	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

5150-5250 MHz:

Modulation	Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power (dBm)			
			Chain 0	Chain 1	Total	Limit
QPSK	1.4M	5154	14.31	13.83	17.09	30.00
		5201	14.37	13.77	17.09	30.00
		5246	14.28	13.83	17.07	30.00
	10M	5157	14.24	14.31	**17.29**	30.00
		5201	14.08	14.42	17.26	30.00
		5243	13.92	14.51	17.24	30.00
	20M	5167	14.29	13.96	17.14	30.00
		5201	14.15	14.06	17.12	30.00
		5233	13.99	14.02	17.02	30.00
16QAM	1.4M	5154	14.42	14.05	17.25	30.00
		5201	14.30	14.16	17.24	30.00
		5246	14.14	14.22	17.19	30.00
	10M	5157	14.29	14.17	17.24	30.00
		5201	14.05	14.31	17.19	30.00
		5243	13.89	14.41	17.17	30.00
	20M	5167	14.15	13.96	17.07	30.00
		5201	14.16	14.02	17.10	30.00
		5233	13.93	14.16	17.06	30.00

Note:
The device is a master device when this modes operating.
The Maximum antenna gain is 3.31dBi, all transmit signals are completely uncorrelated with each other, so:
Directional gain =3.31dBi
The Maximum EIRP=20.6 dBm, meet the requirement of The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

5725-5850 MHz:

Modulation	Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power (dBm)			
			Chain 0	Chain 1	Total	Limit
QPSK	1.4M	5728	25.38	24.71	**28.07**	29.65
		5789	25.28	24.49	27.91	29.65
		5847	24.67	24.14	27.42	29.65
	10M	5733	24.43	24.24	27.35	29.65
		5789	23.97	24.09	27.04	29.65
		5842	23.45	23.76	26.62	29.65
	20M	5738	24.42	24.05	27.25	29.65
		5790	24.08	24.09	27.10	29.65
		5839	23.64	23.81	26.74	29.65
16QAM	1.4M	5728	24.69	24.73	27.72	29.65
		5789	24.53	24.44	27.50	29.65
		5847	24.33	24.31	27.33	29.65
	10M	5733	24.26	24.17	27.23	29.65
		5789	23.97	24.14	27.07	29.65
		5842	23.55	24.08	26.83	29.65
	20M	5738	24.24	24.35	27.31	29.65
		5790	23.93	24.05	27.00	29.65
		5839	23.66	23.94	26.81	29.65

Note:
The Maximum antenna gain is 3.35dBi, all transmit signals are completely uncorrelated with each other, so:
Directional gain =3.35dBi

4.6 Maximum power spectral density:

Serial Number:	278G-1	Test Date:	2023/08/06-2023/08/08
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jim Wei	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	27.1-28.2	Relative Humidity: (%)	41-47	ATM Pressure: (kPa)	99.6-99.8

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/03/31	2024/03/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

5150-5250 MHz:

Modulation	Test Modes	Test Frequency (MHz)	Maximum Power Spectral Density (dBm/MHz)			
			Chain 0	Chain 1	Total	Limit
QPSK	1.4M	5154	13.28	13.78	16.55	17.00
		5201	13.18	13.65	16.43	17.00
		5246	12.96	13.75	16.38	17.00
	10M	5157	5.61	5.70	8.67	17.00
		5201	5.35	5.76	8.57	17.00
		5243	5.15	5.81	8.50	17.00
	20M	5167	2.49	2.00	5.26	17.00
		5201	2.18	2.11	5.16	17.00
		5233	2.07	2.14	5.12	17.00
16QAM	1.4M	5154	14.14	13.17	16.68	17.00
		5201	14.29	12.87	16.65	17.00
		5246	14.06	13.13	16.63	17.00
	10M	5157	5.70	5.39	8.56	17.00
		5201	5.30	5.73	8.53	17.00
		5243	5.19	5.83	8.53	17.00
	20M	5167	2.33	1.93	5.14	17.00
		5201	2.28	2.04	5.17	17.00
		5233	1.97	2.28	5.14	17.00

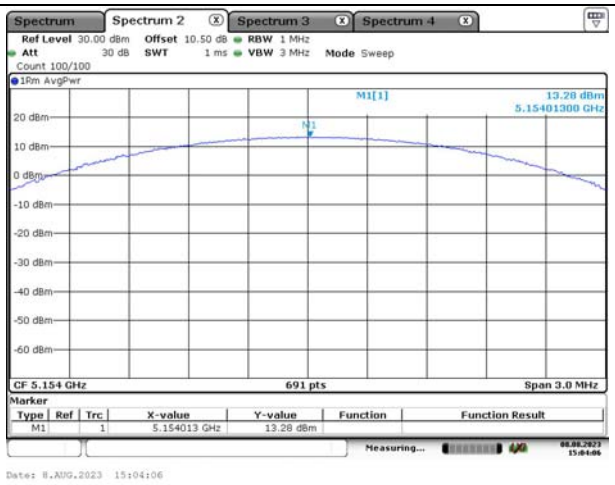
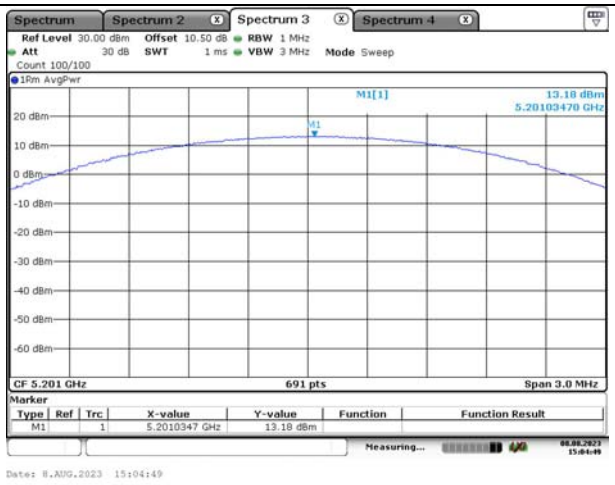
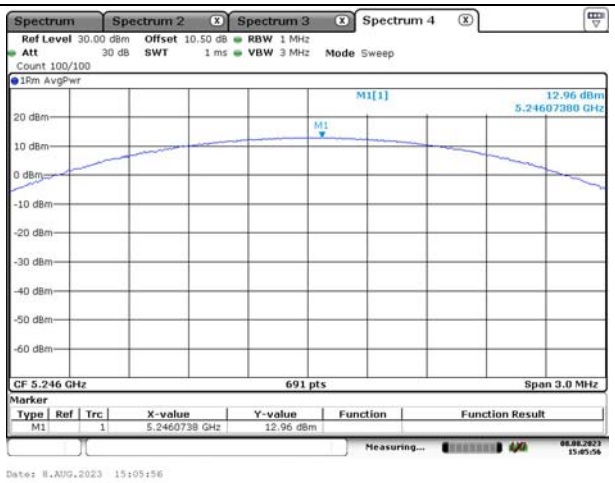
Note:
The Maximum antenna gain is 3.31dBi, all transmit signals are completely uncorrelated with each other, so:
Directional gain =3.31dBi
The device is a master device when this modes operating.
Method SA-1 in KDB 789033 D02 General UNII Test Procedures New Rules v02r01was used for PSD test.

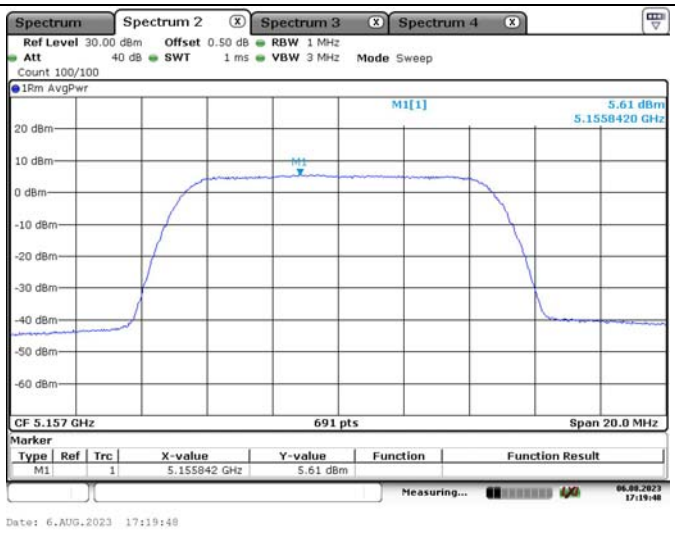
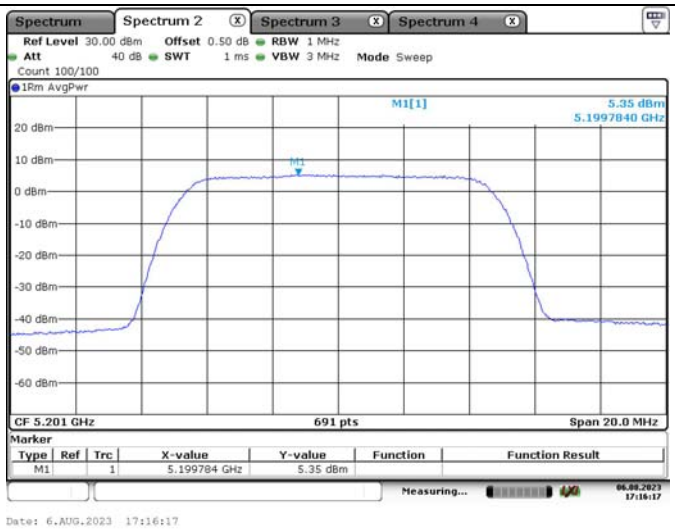
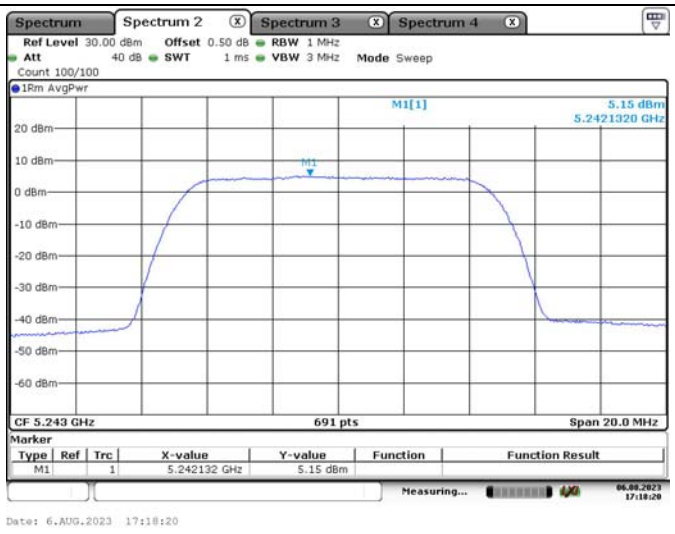
5725-5850 MHz:

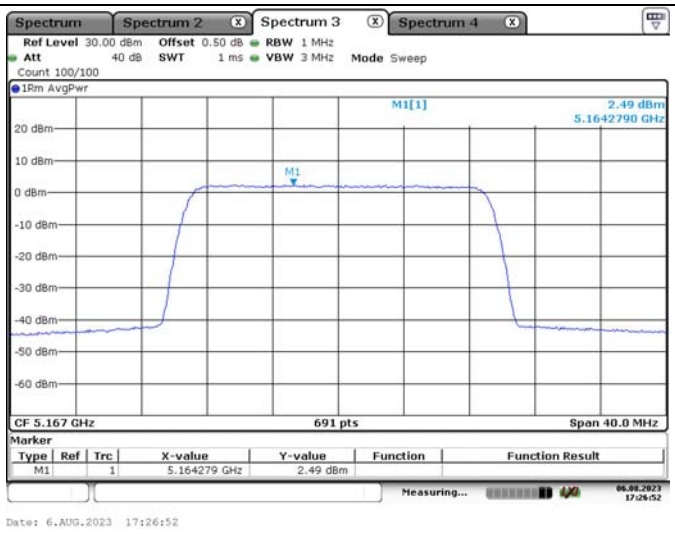
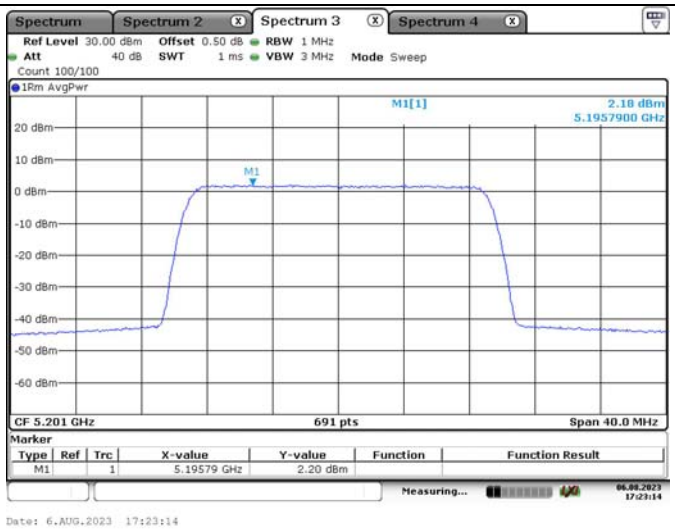
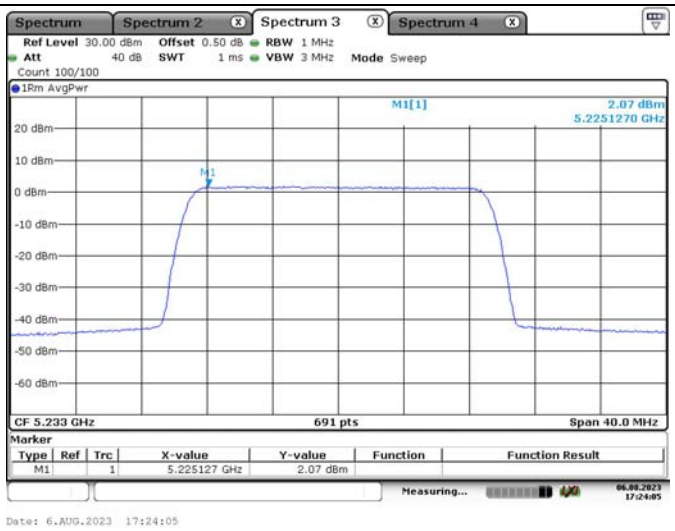
Modulation	Test Modes	Test Frequency (MHz)	Maximum Power Spectral Density (dBm/500kHz)			
			Chain 0	Chain 1	Total	Limit
QPSK	1.4M	5728	21.00	20.38	23.71	30.00
		5789	20.67	20.43	23.56	30.00
		5847	20.36	20.08	23.23	30.00
	10M	5733	11.89	10.95	14.46	30.00
		5789	11.42	11.16	14.30	30.00
		5842	11.04	11.32	14.19	30.00
	20M	5738	8.65	7.97	11.33	30.00
		5790	8.64	8.06	11.37	30.00
		5839	8.41	7.77	11.11	30.00
16QAM	1.4M	5728	21.29	20.24	23.81	30.00
		5789	20.89	20.21	23.57	30.00
		5847	20.65	19.96	23.33	30.00
	10M	5733	11.43	11.19	14.32	30.00
		5789	11.00	10.95	13.99	30.00
		5842	9.58	9.68	12.64	30.00
	20M	5738	9.15	8.27	11.74	30.00
		5790	9.00	8.40	11.72	30.00
		5839	8.53	8.16	11.36	30.00

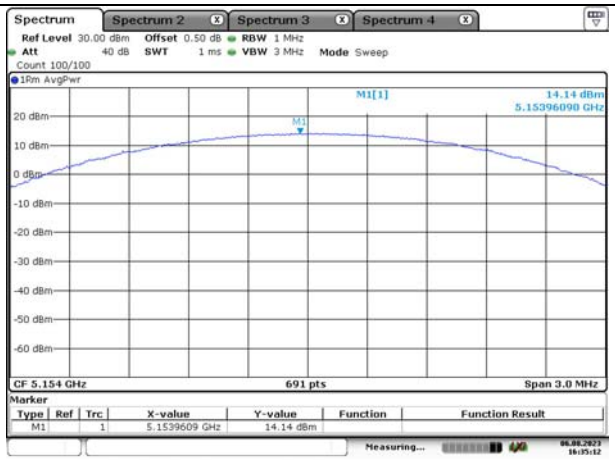
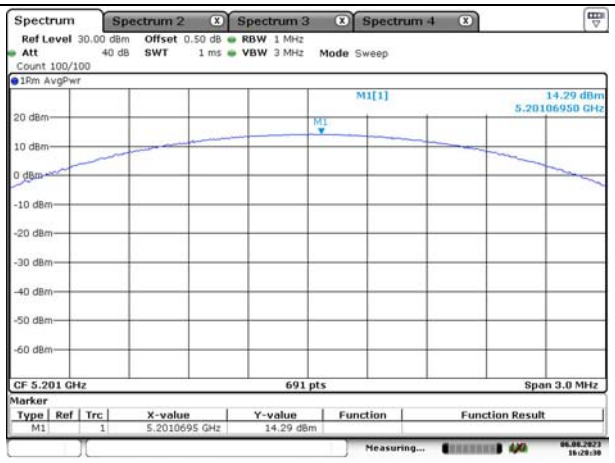
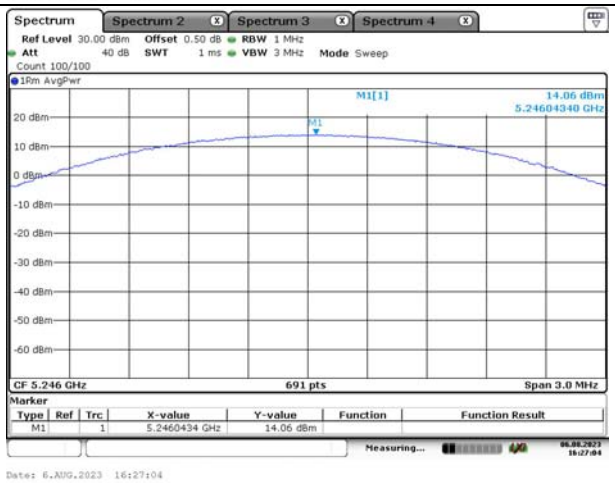
Note:
The Maximum antenna gain is 3.35dBi, all transmit signals are completely uncorrelated with each other, so:
Directional gain =3.35dBi Method SA-1 in KDB 789033 D02 General UNII Test Procedures New Rules v02r01was used for PSD test.

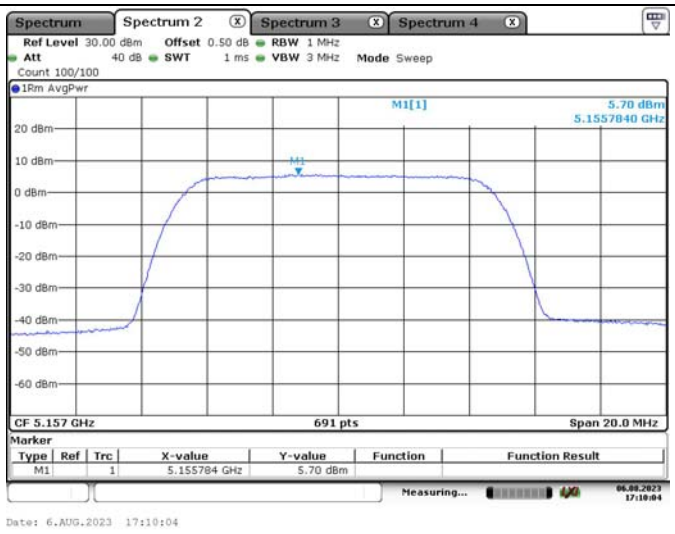
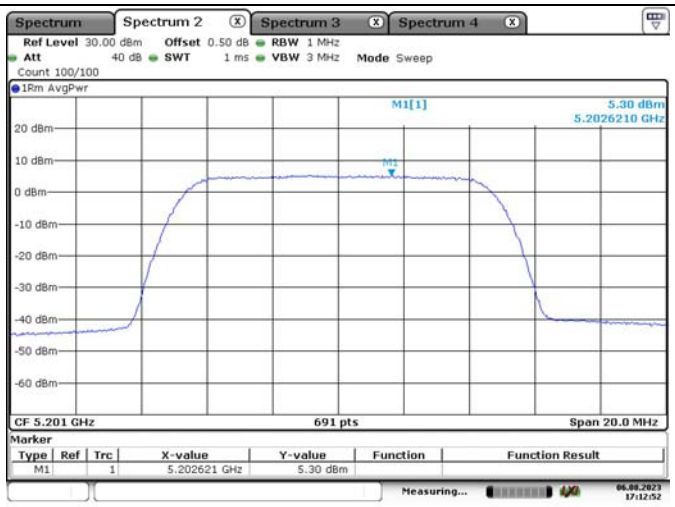
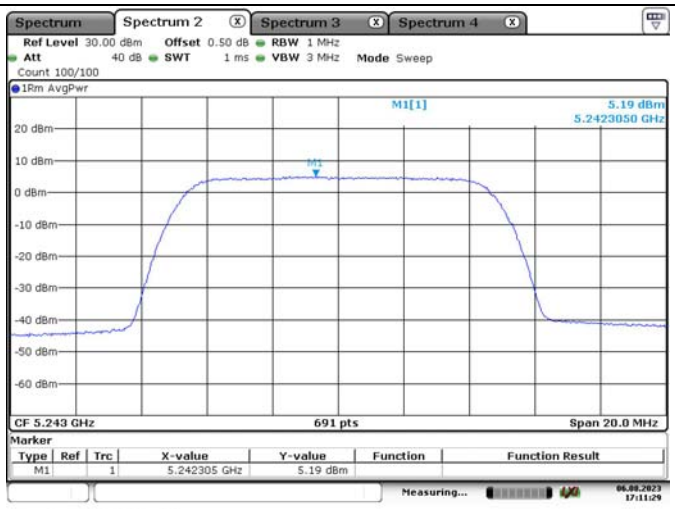
5150-5250MHz:
Chain 0

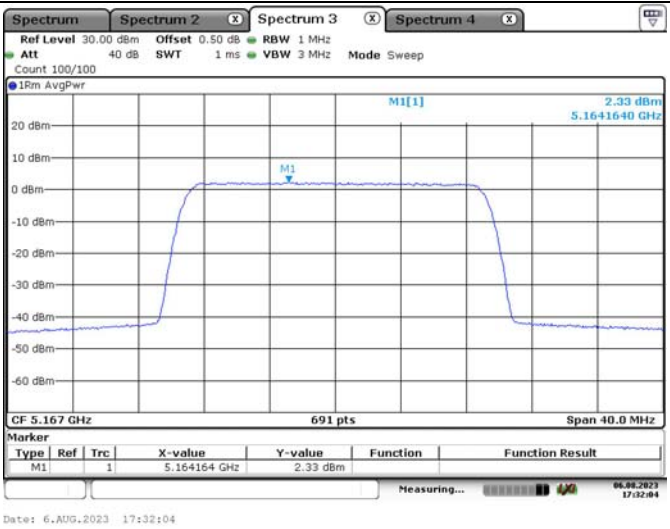
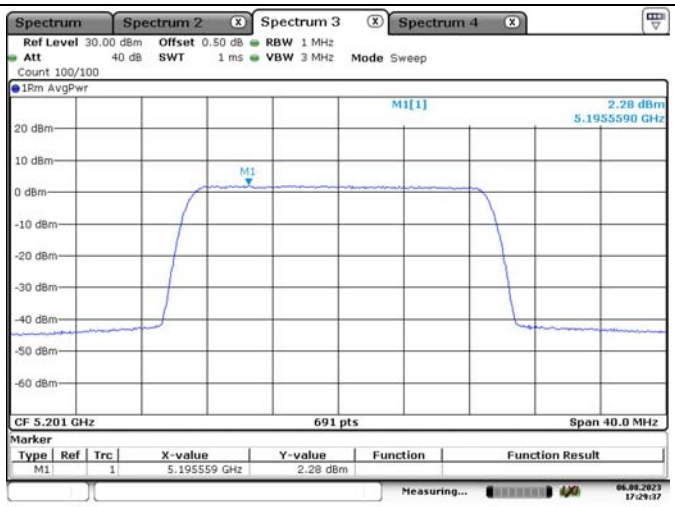
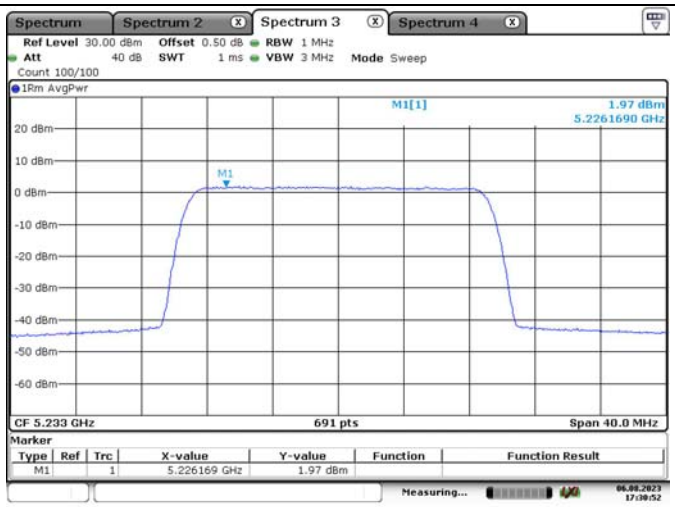
Maximum power spectral density	
QPSK, 1.4M Lowest Channel	
QPSK,1.4M Middle Channel	
QPSK,1.4M Highest Channel	

Maximum power spectral density	
QPSK, 10M Lowest Channel	
QPSK,10M Middle Channel	
QPSK,10M Highest Channel	

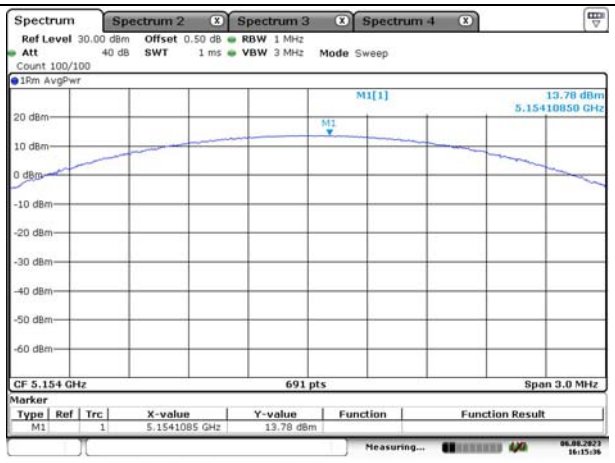
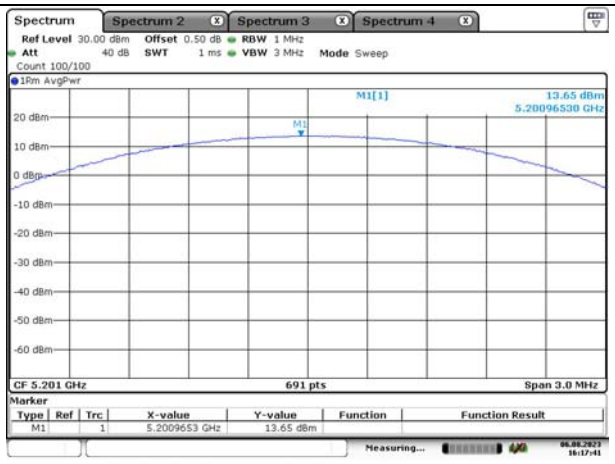
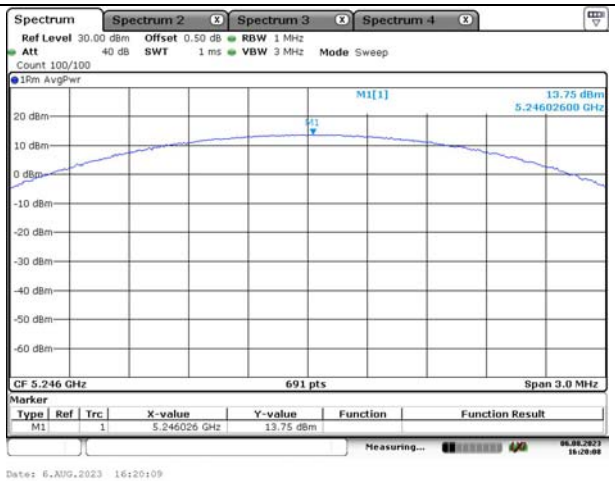
Maximum power spectral density	
QPSK, 20M Lowest Channel	
QPSK,20M Middle Channel	
QPSK,20M Highest Channel	

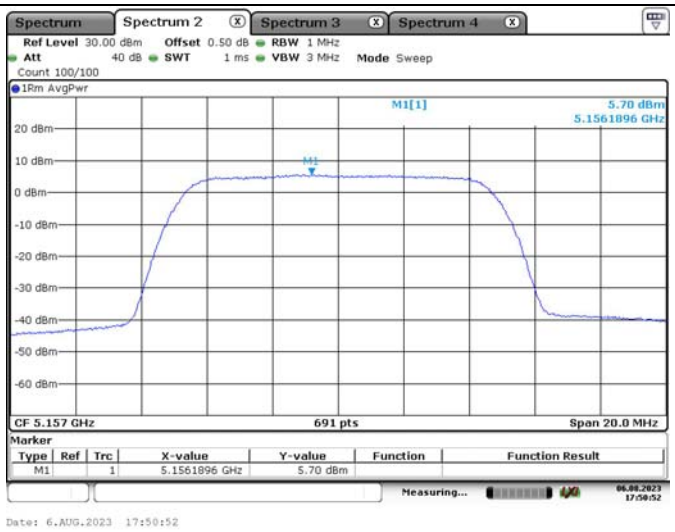
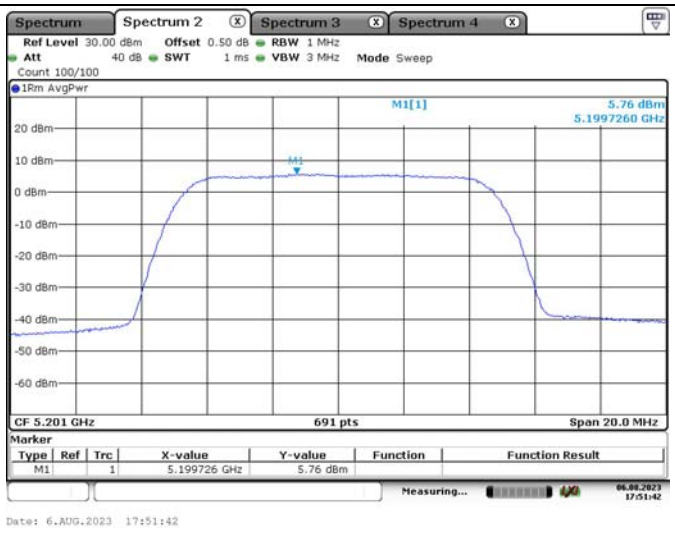
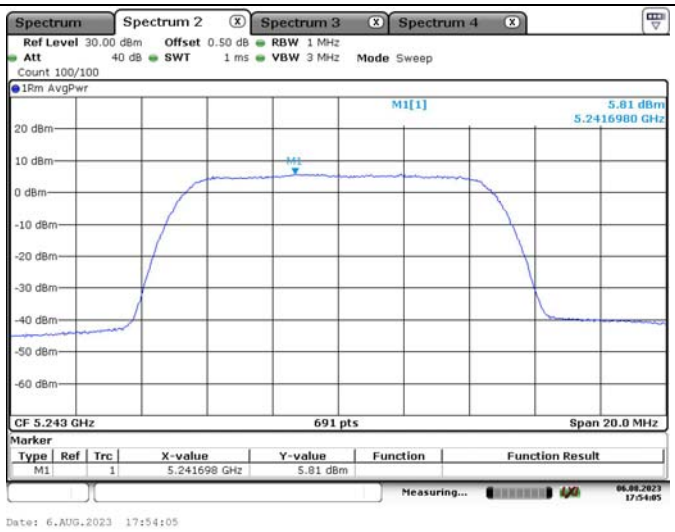
Maximum power spectral density	
16QAM,1.4M Lowest Channel	
16QAM,1.4M Middle Channel	
16QAM,1.4M Highest Channel	

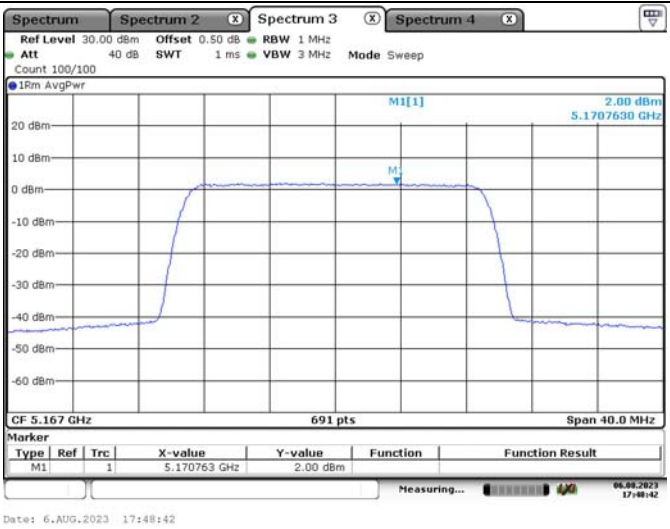
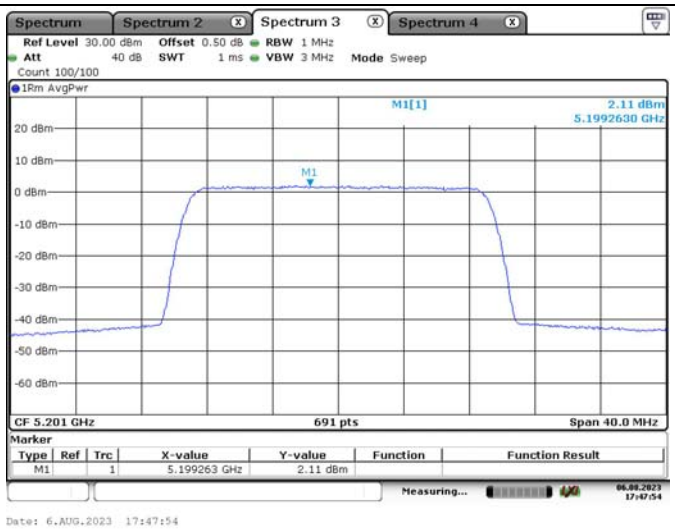
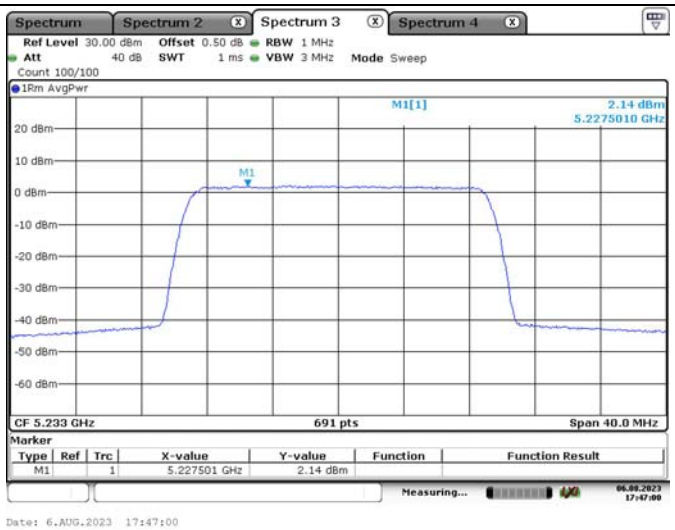
Maximum power spectral density	
16QAM,10M Lowest Channel	
16QAM,10M Middle Channel	
16QAM,10M Highest Channel	

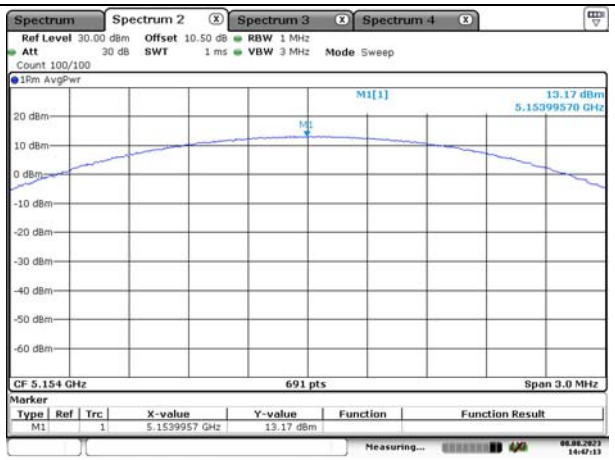
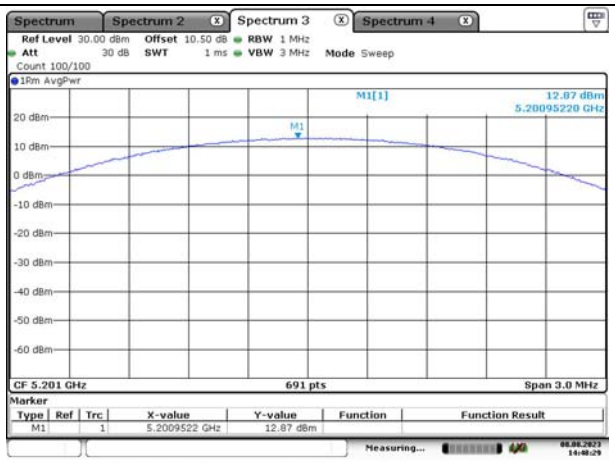
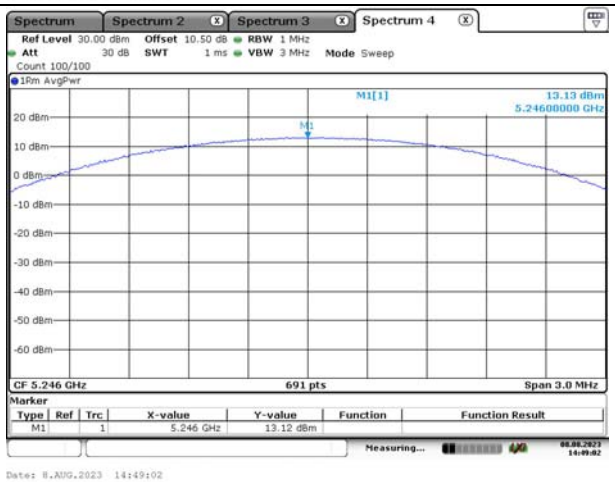
Maximum power spectral density	
16QAM,20M Lowest Channel	
16QAM,20M Middle Channel	
16QAM,20M Highest Channel	

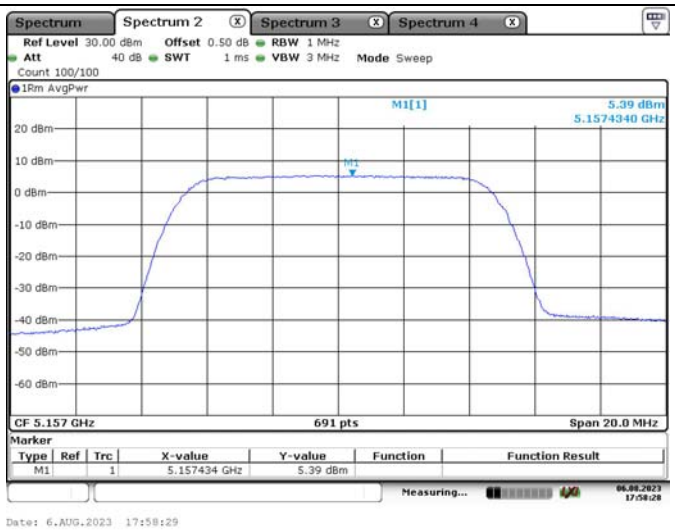
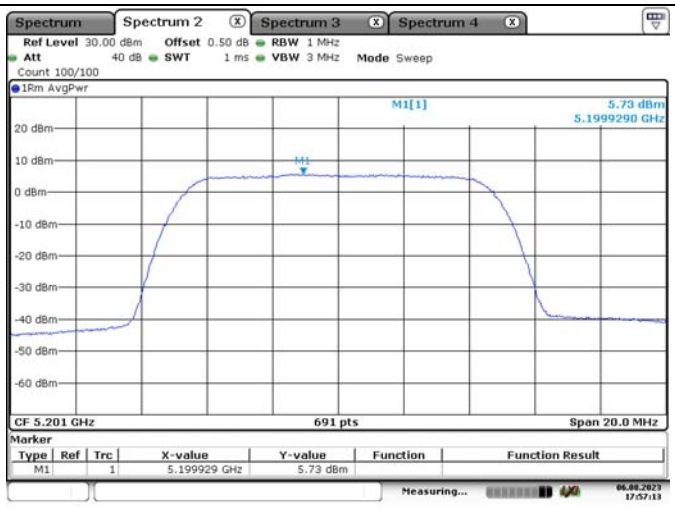
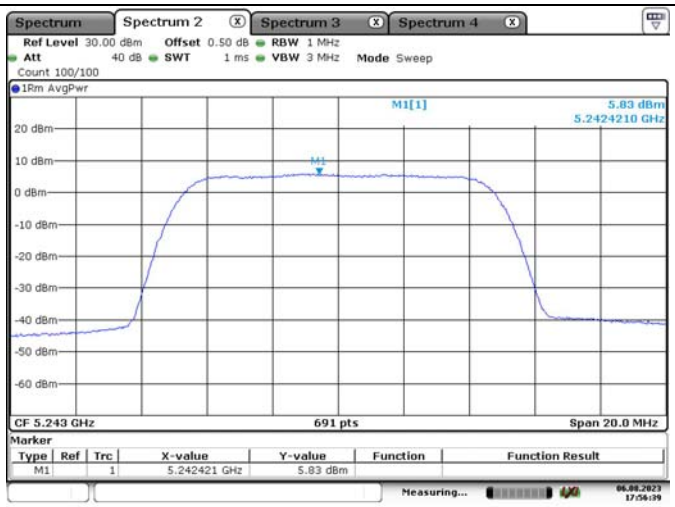
Chain 1

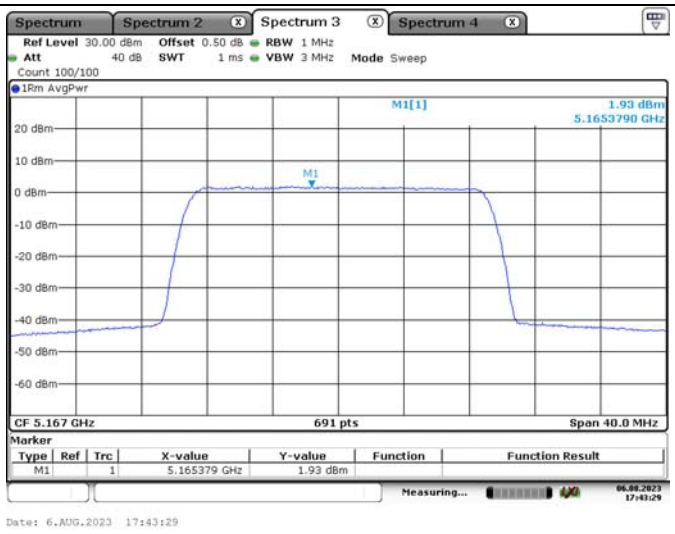
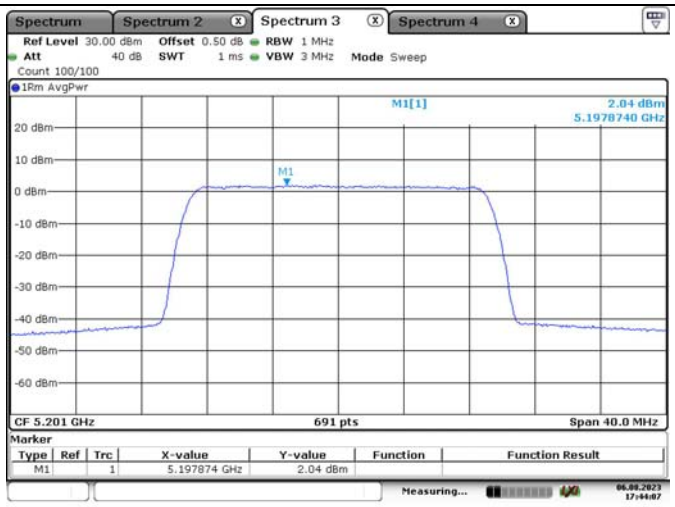
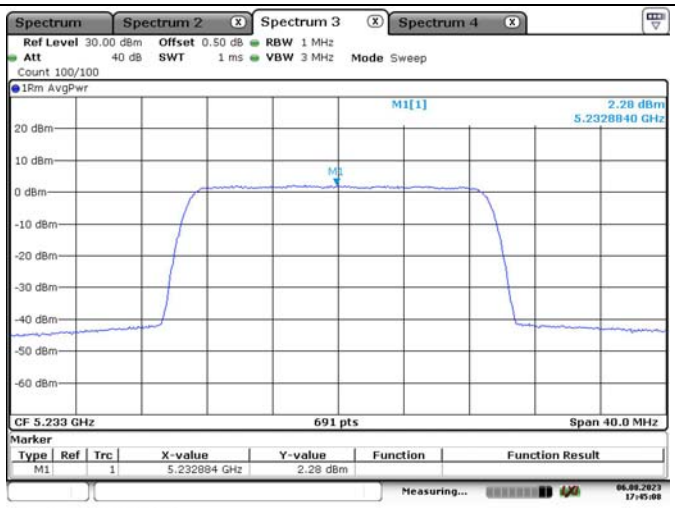
Maximum power spectral density	
QPSK,1.4M Lowest Channel	
QPSK,1.4M Middle Channel	
QPSK,1.4M Highest Channel	

Maximum power spectral density	
QPSK,10M Lowest Channel	
QPSK,10M Middle Channel	
QPSK,10M Highest Channel	

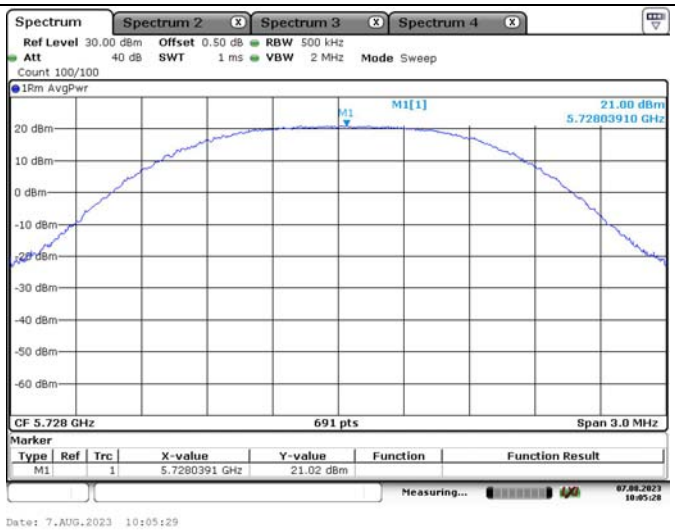
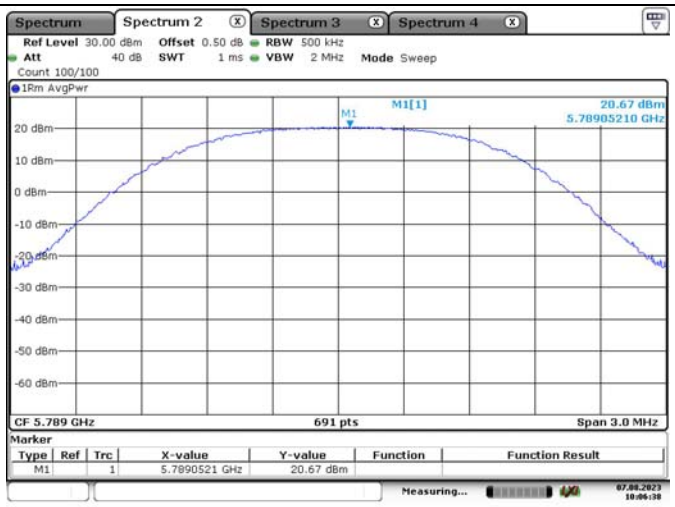
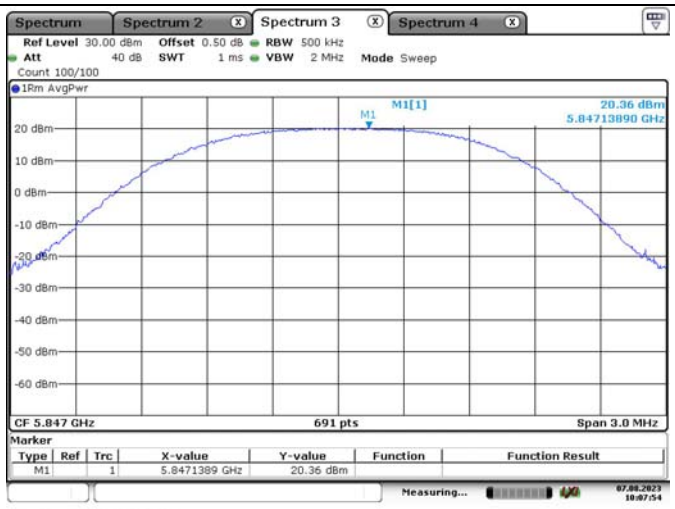
Maximum power spectral density	
QPSK,20M Lowest Channel	
QPSK,20M Middle Channel	
QPSK,20M Highest Channel	

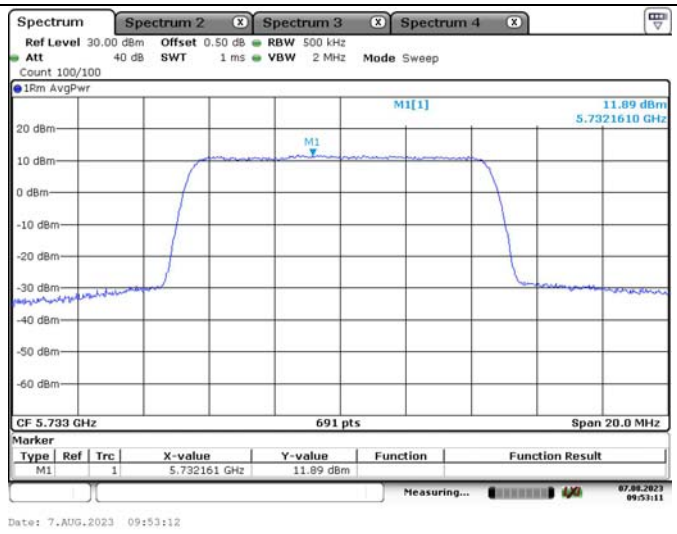
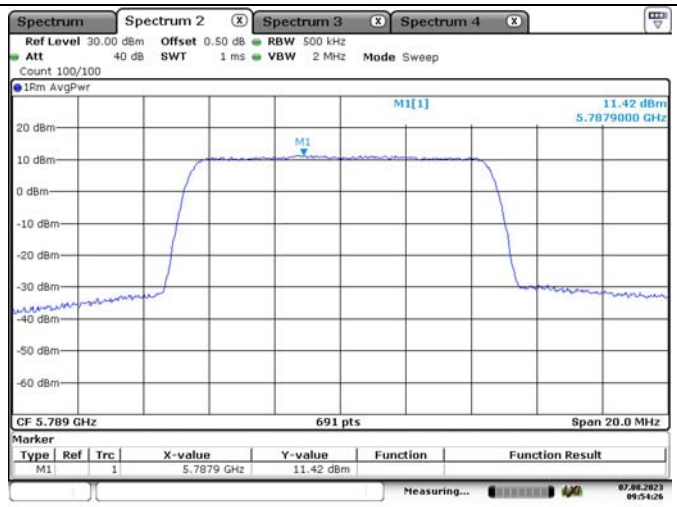
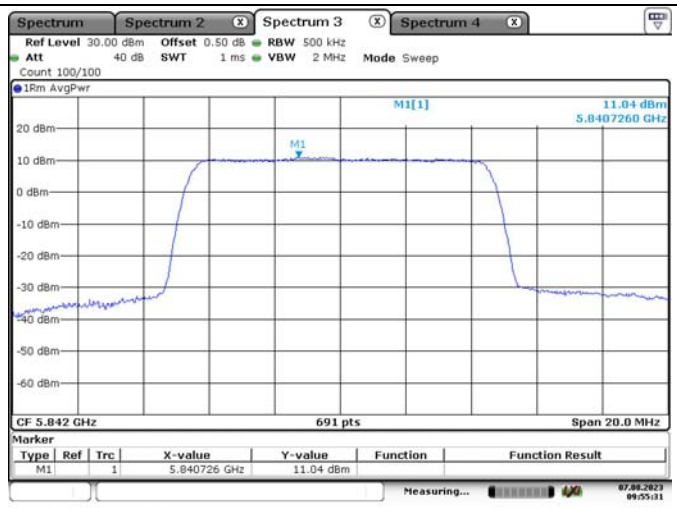
Maximum power spectral density	
16QAM,1.4M Lowest Channel	
16QAM,1.4M Middle Channel	
16QAM,1.4M Highest Channel	

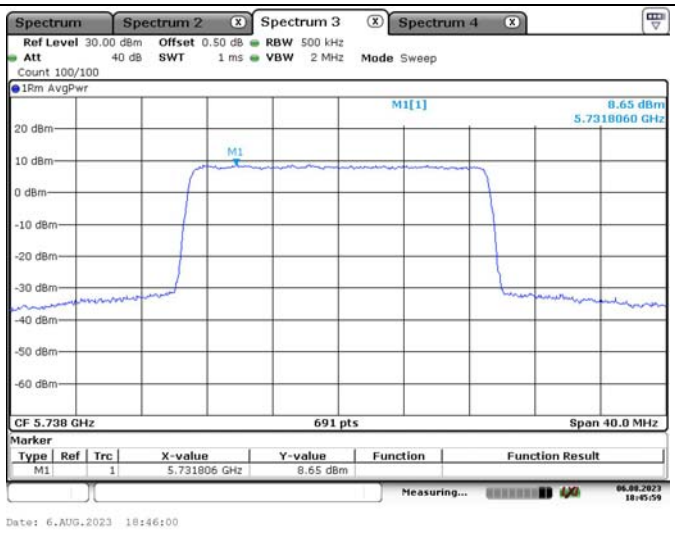
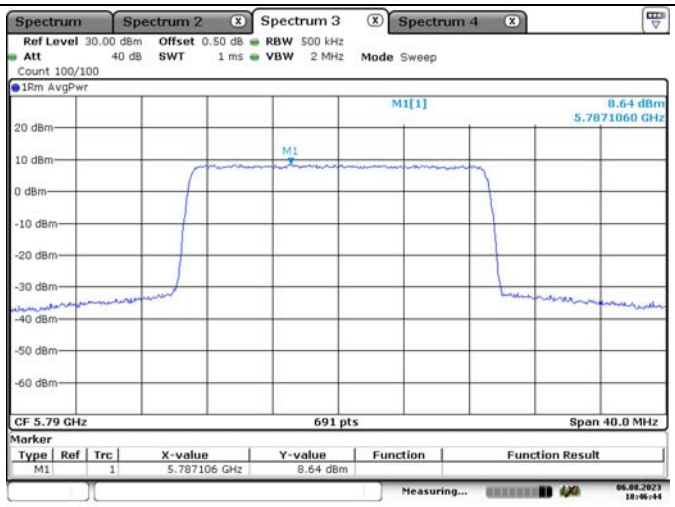
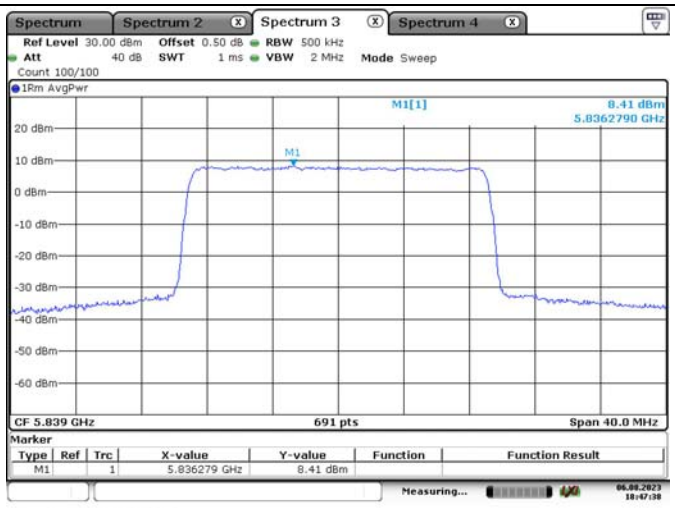
Maximum power spectral density	
16QAM,10M Lowest Channel	
16QAM,10M Middle Channel	
16QAM,10M Highest Channel	

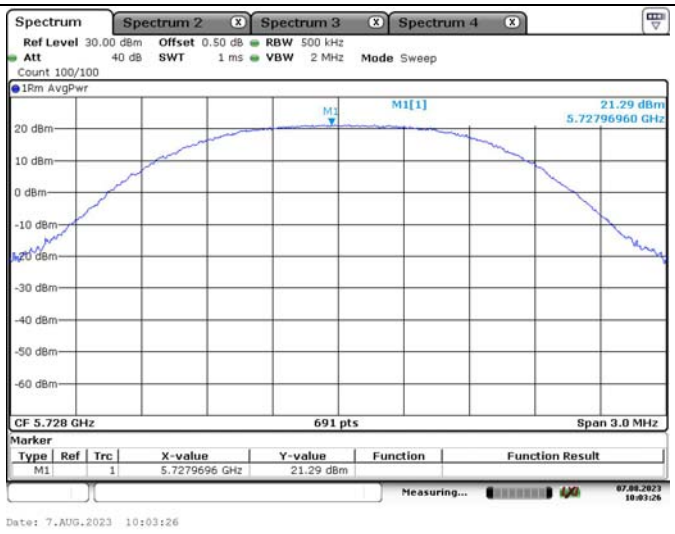
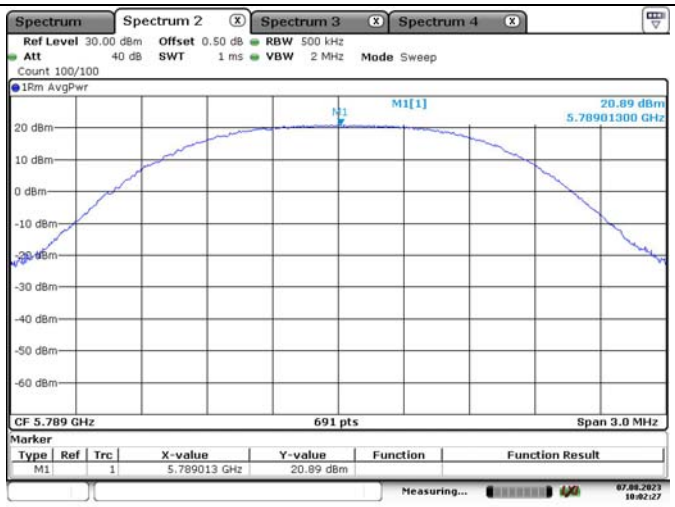
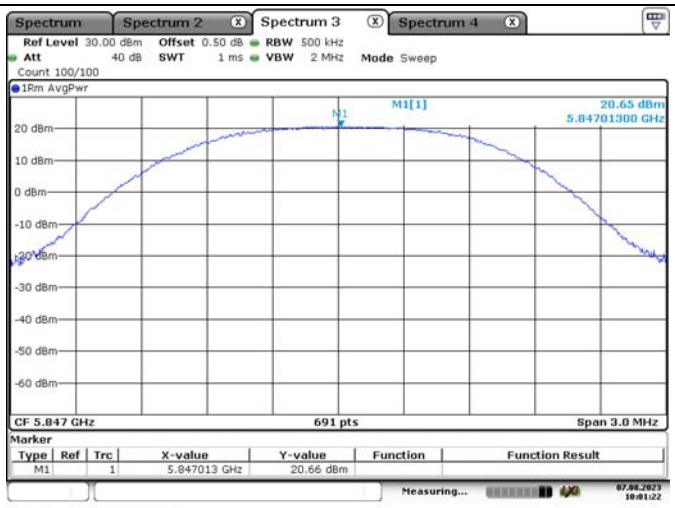
Maximum power spectral density	
16QAM,20M Lowest Channel	
16QAM,20M Middle Channel	
16QAM,20M Highest Channel	

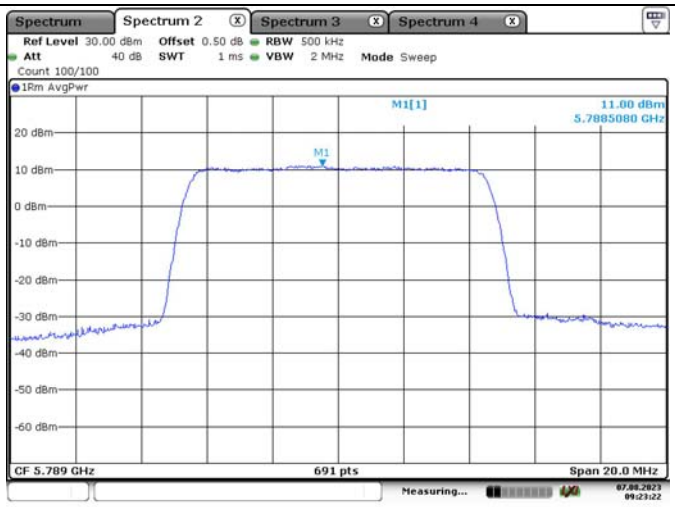
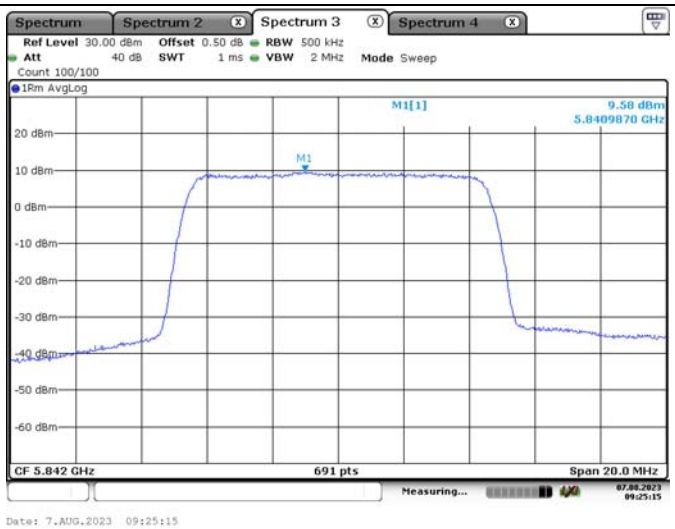
5725-5850MHz:
Chain 0

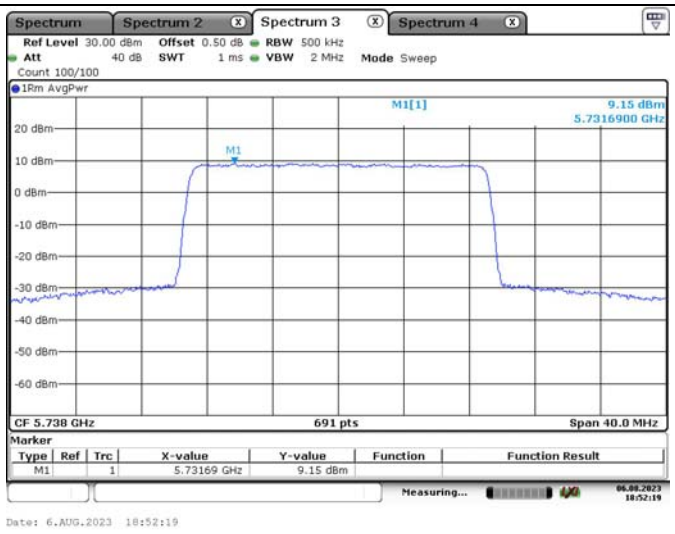
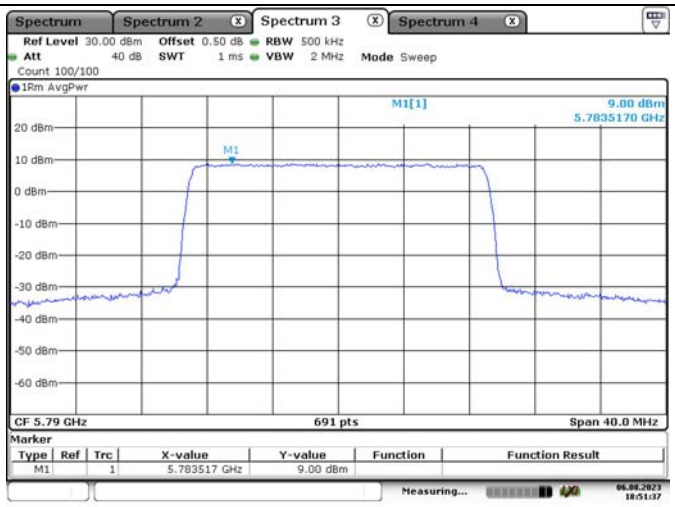
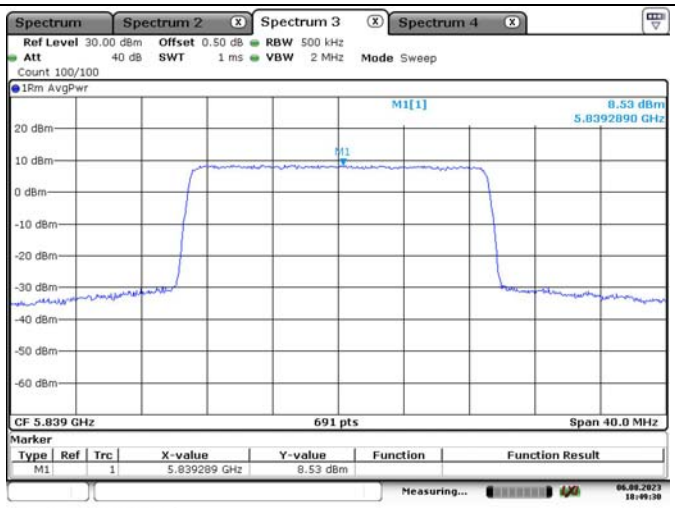
Maximum power spectral density	
QPSK, 1.4M Lowest Channel	
QPSK, 1.4M Middle Channel	
QPSK, 1.4M Highest Channel	

Maximum power spectral density	
QPSK, 10M Lowest Channel	
QPSK, 10M Middle Channel	
QPSK, 10M Highest Channel	

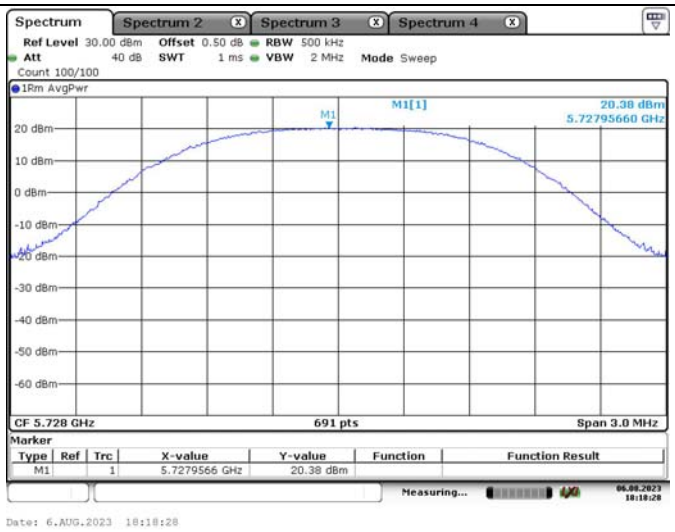
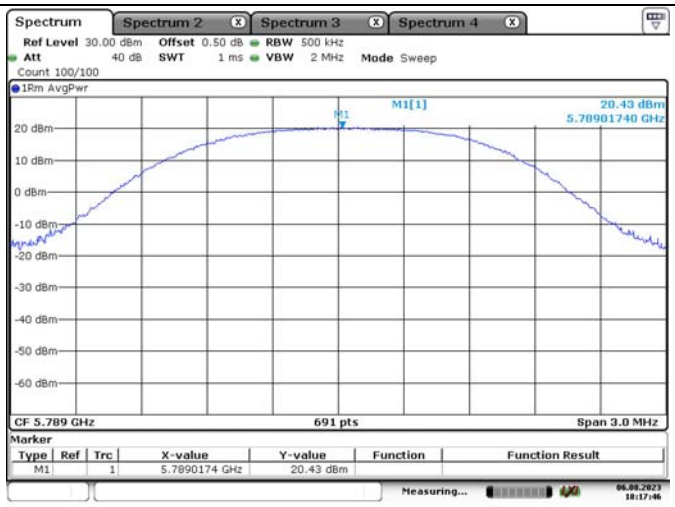
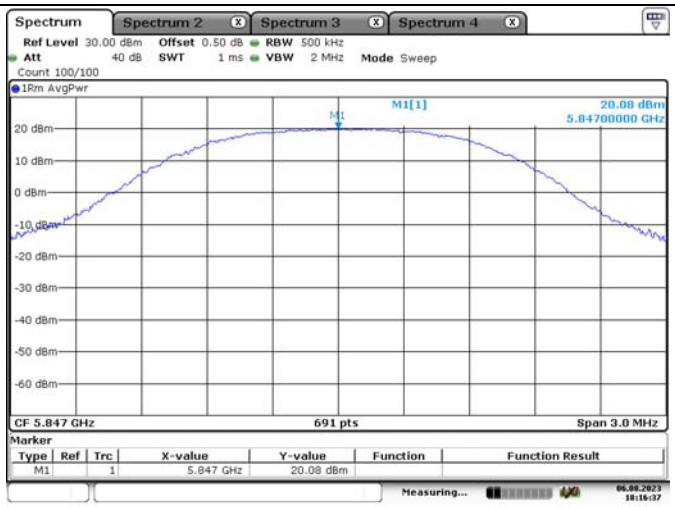
Maximum power spectral density	
QPSK, 20M Lowest Channel	
QPSK, 20M Middle Channel	
QPSK, 20M Highest Channel	

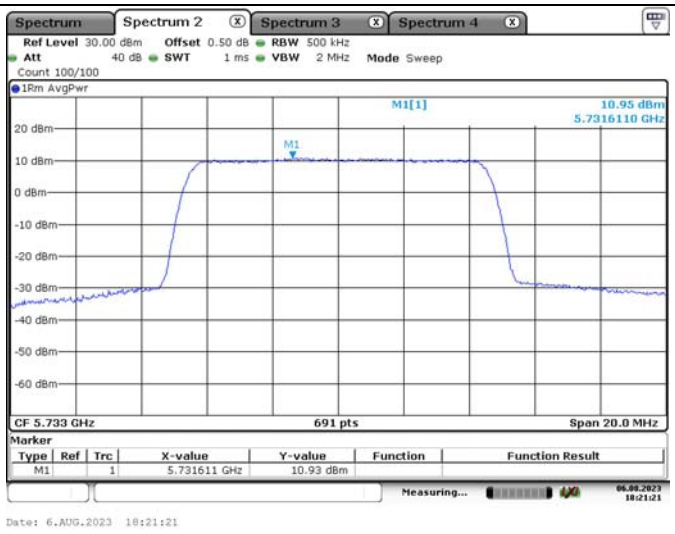
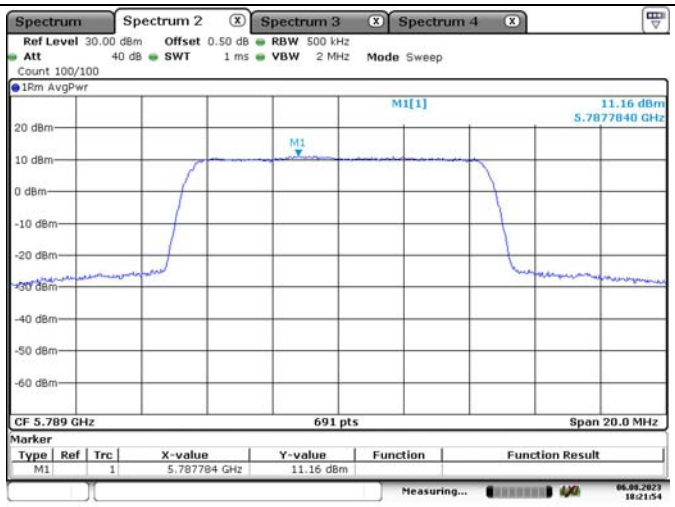
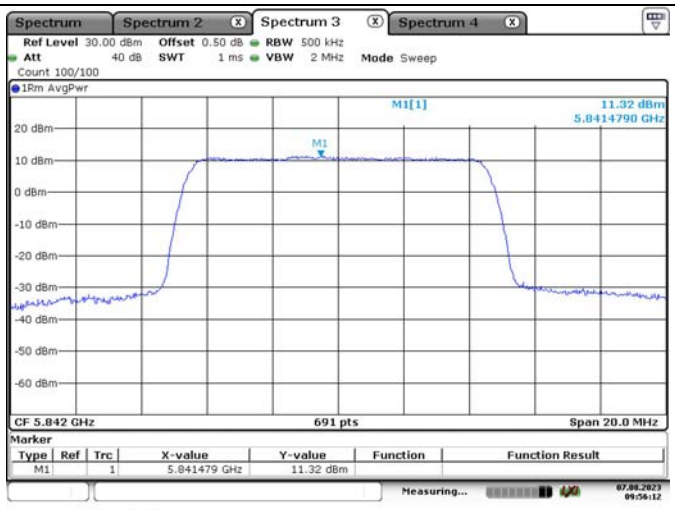
Maximum power spectral density	
16QAM, 1.4M Lowest Channel	
16QAM,1.4M Middle Channel	
16QAM,1.4M Highest Channel	

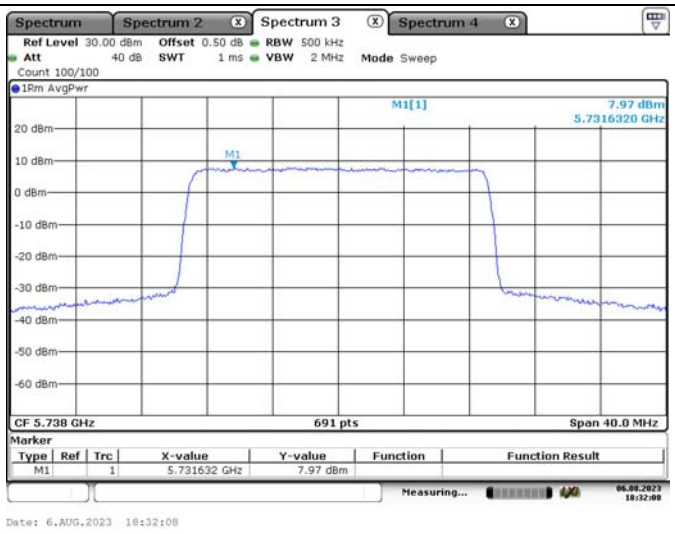
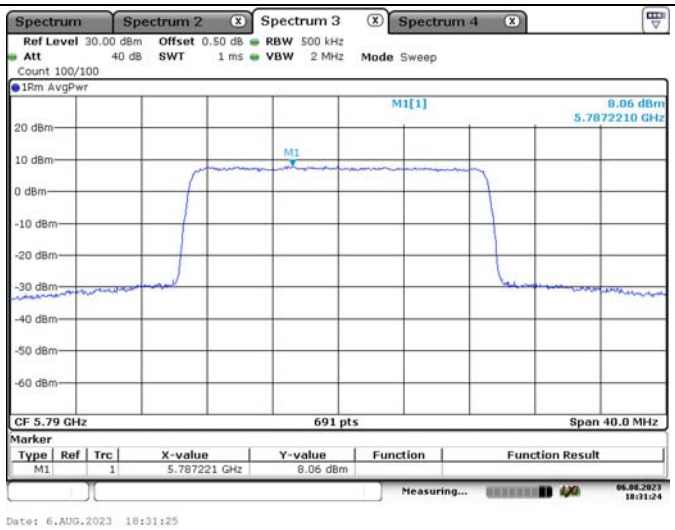
Maximum power spectral density	
16QAM,10M Lowest Channel	
16QAM,10M Middle Channel	
16QAM,10M Highest Channel	

Maximum power spectral density	
16QAM,20M Lowest Channel	
16QAM,20M Middle Channel	
16QAM,20M Highest Channel	

Chain 1

Maximum power spectral density	
QPSK,1.4M Lowest Channel	
QPSK,1.4M Middle Channel	
QPSK,1.4M Highest Channel	

Maximum power spectral density	
QPSK,10M Lowest Channel	
QPSK,10M Middle Channel	
QPSK,10M Highest Channel	

Maximum power spectral density	
QPSK,20M Lowest Channel	
QPSK,20M Middle Channel	
QPSK,20M Highest Channel