



FCC RF Test Report

APPLICANT : Akteena
EQUIPMENT : Akteena Peripheral Camera
BRAND NAME : Akteena
MODEL NAME : A9-2800P
FCC ID : 2BL79-A928
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Mar. 15, 2025 ~ Apr. 17, 2025

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR4O2415A	Rev. 01	Initial issue of report	Apr. 22, 2025



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Report Only	-
3.2	15.247(b)	Power Output Measurement	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges	$\leq 20\text{dBc}$	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 0.41 dB at 2483.50 MHz
-	15.207	AC Conducted Emission	15.207(a)	Not Applicable	Not connect to the AC mains
3.6	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

Akteena

Akteena INC, 41369 Vincenti Ct., Novi Michigan 48375, U.S.A

1.2 Manufacturer

VVDN Technologies Pvt Ltd

Plot No: CP-07, Sector-8,IMT Manesar, Gurugram-122050,Haryana,INDIA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Akteena Peripheral Camera
Brand Name	Akteena
Model Name	A9-2800P
FCC ID	2BL79-A928
SN	A9-2800P_DVT_CERT_001
HW Version	B1
SW Version	2.4.0
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz
Maximum (Peak) Output Power to antenna	802.11b : 19.82 dBm (0.0959 W) 802.11g : 20.53 dBm (0.1130 W) 802.11n HT20 : 20.76 dBm (0.1191 W)
99% Occupied Bandwidth	802.11b : 13.309MHz 802.11g : 17.491MHz 802.11n HT20 : 18.400MHz
Antenna Type / Gain	Monopole Antenna with gain 4.06 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-KS 03CH08-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH08-KS	AUDIX	E3	210616

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane) were recorded in this report.

2.1 Carrier Frequency and Channel

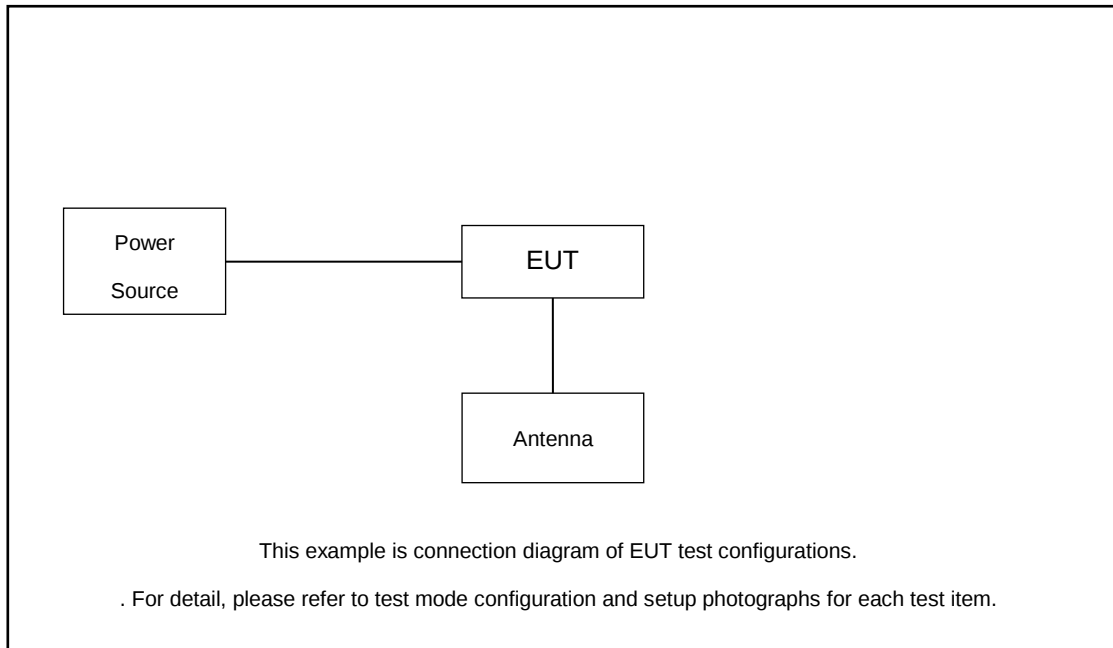
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437	-	-

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Antenna	N/A	N/A	N/A	N/A	N/A
2.	DC Power	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 2.11 dB and 20dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB). = 2.11 + 20 = 22.11 (dB)

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

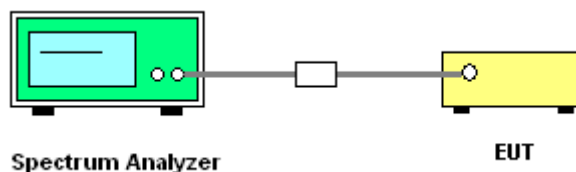
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) $\geq 3 \times \text{RBW}$. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1%~5% of OBW and set the Video bandwidth (VBW) approximately three times the RBW.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

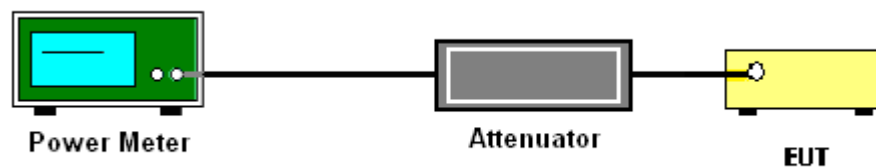
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup





3.2.5 Test Result of Peak Output Power

2.4GHz Band Single Antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
11b	1Mbps	1	1	2412	18.75	30.00	4.06	22.81	36.00	Pass
11b	1Mbps	1	6	2437	19.68	30.00	4.06	23.74	36.00	Pass
11b	1Mbps	1	11	2462	19.82	30.00	4.06	23.88	36.00	Pass
11g	6Mbps	1	1	2412	19.32	30.00	4.06	23.38	36.00	Pass
11g	6Mbps	1	6	2437	20.51	30.00	4.06	24.57	36.00	Pass
11g	6Mbps	1	11	2462	20.53	30.00	4.06	24.59	36.00	Pass
HT20	MCS0	1	1	2412	19.47	30.00	4.06	23.53	36.00	Pass
HT20	MCS0	1	6	2437	20.67	30.00	4.06	24.73	36.00	Pass
HT20	MCS0	1	11	2462	20.76	30.00	4.06	24.82	36.00	Pass

3.2.6 Test Result of Average Output Power (Reporting Only)

2.4GHz Band Single Antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting
11b	1Mbps	1	1	2412	0.35	16.52	30.00	4.06	20.58	36.00	Pass	17.00
11b	1Mbps	1	6	2437	0.35	17.28	30.00	4.06	21.34	36.00	Pass	17.00
11b	1Mbps	1	11	2462	0.35	17.32	30.00	4.06	21.38	36.00	Pass	17.00
11g	6Mbps	1	1	2412	0.32	10.58	30.00	4.06	14.64	36.00	Pass	12.50
11g	6Mbps	1	6	2437	0.32	13.07	30.00	4.06	17.13	36.00	Pass	14.50
11g	6Mbps	1	11	2462	0.32	12.10	30.00	4.06	16.16	36.00	Pass	13.50
HT20	MCS0	1	1	2412	0.33	10.88	30.00	4.06	14.94	36.00	Pass	13.50
HT20	MCS0	1	6	2437	0.33	13.60	30.00	4.06	17.66	36.00	Pass	15.50
HT20	MCS0	1	11	2462	0.33	12.66	30.00	4.06	16.72	36.00	Pass	14.50

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

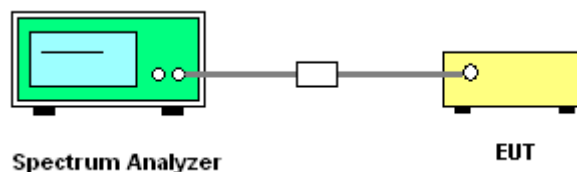
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

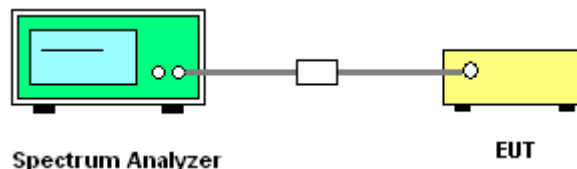
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.11
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Please refer to Appendix A.

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

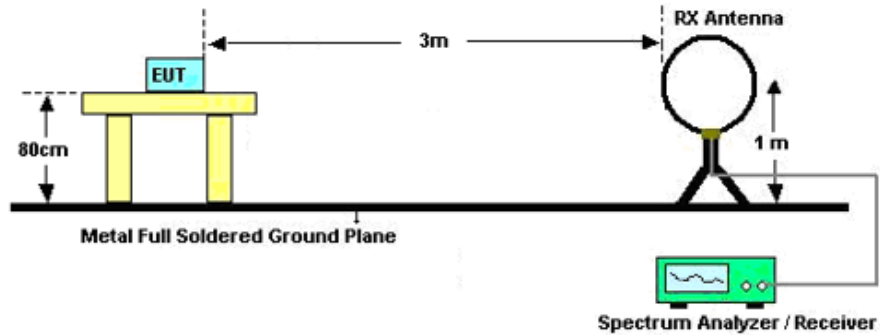


3.5.3 Test Procedures

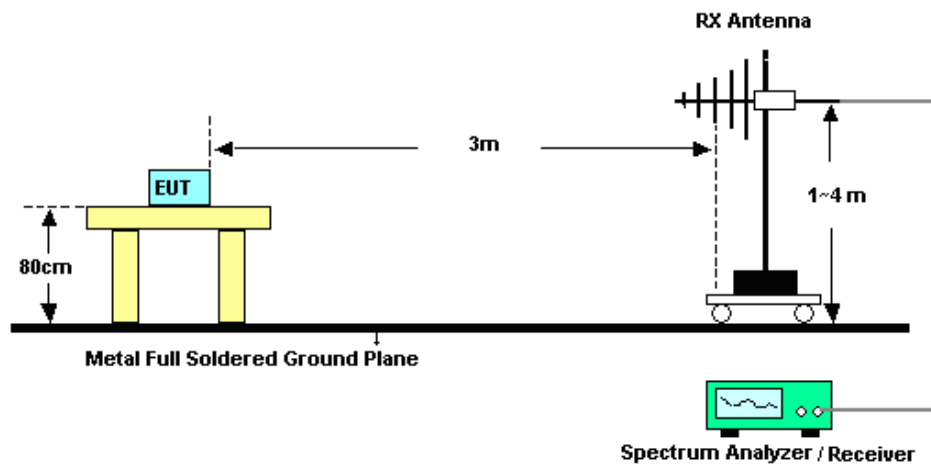
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

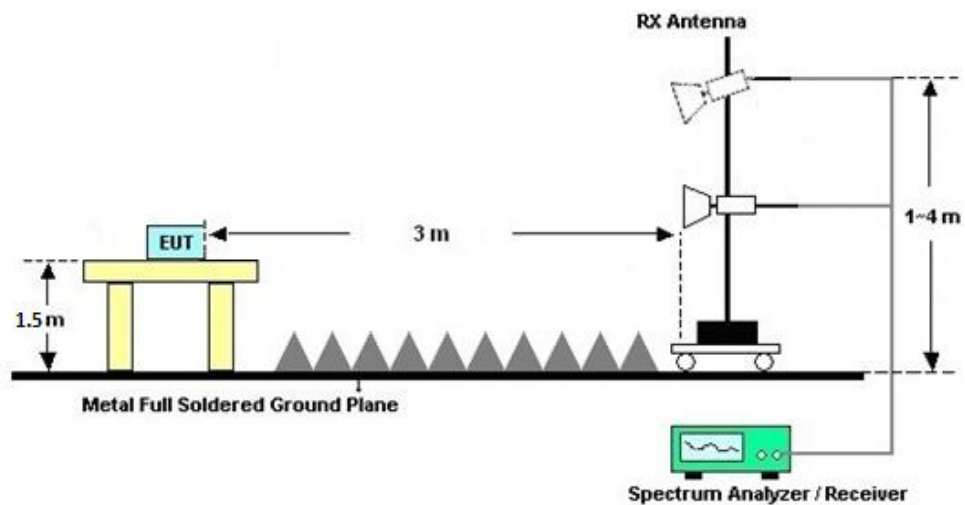
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.5.7 Duty Cycle

Please refer to Appendix C.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A	MY57290151	3Hz~8.5GHz;Max 30dBm	Jul. 04, 2024	Mar. 15, 2025	Jul. 03, 2025	Radiation (03CH08-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57441079	10Hz~44GHz	Oct. 09, 2024	Mar. 15, 2025	Oct. 08, 2025	Radiation (03CH08-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Mar. 15, 2025	Sep. 07, 2025	Radiation (03CH08-KS)
Bilog Antenna	TESEQ	CBL 6111D	59915	30MHz~1GHz	Aug. 18, 2024	Mar. 15, 2025	Aug.17, 2025	Radiation (03CH08-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00240138	1GHz~18GHz	Jul. 06, 2024	Mar. 15, 2025	Jul. 05, 2025	Radiation (03CH08-KS)
high gain Amplifier	EM	EM01G18GA	060890	1GHz~18GHz	Jul. 23, 2024	Mar. 15, 2025	Jul. 22, 2025	Radiation (03CH08-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 22, 2024	Mar. 15, 2025	Oct. 21, 2025	Radiation (03CH08-KS)
Amplifier	SONOMA	310N	380826	9KHz~1GHz	Jul. 03, 2024	Mar. 15, 2025	Jul. 02, 2025	Radiation (03CH08-KS)
Amplifier	Keysight	83017A	MY53270417	500MHz~26.5GHz	Oct. 09, 2024	Mar. 15, 2025	Oct. 08, 2025	Radiation (03CH08-KS)
Amplifier	EM	EM18G40GGA	060737	18~40GHz	Jan. 03, 2025	Mar. 15, 2025	Jan. 02, 2026	Radiation (03CH08-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Mar. 15, 2025	NCR	Radiation (03CH08-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	Mar. 15, 2025	NCR	Radiation (03CH08-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	Mar. 15, 2025	NCR	Radiation (03CH08-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Apr. 17, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2025	Apr. 17, 2025	Jan. 01, 2026	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2025	Apr. 17, 2025	Jan. 01, 2026	Conducted (TH01-KS)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Conducted Power Spectral Density	±0.90 dB
Frequency	±0.04ppm

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.30dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.04dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.26dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.40dB
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----- THE END -----



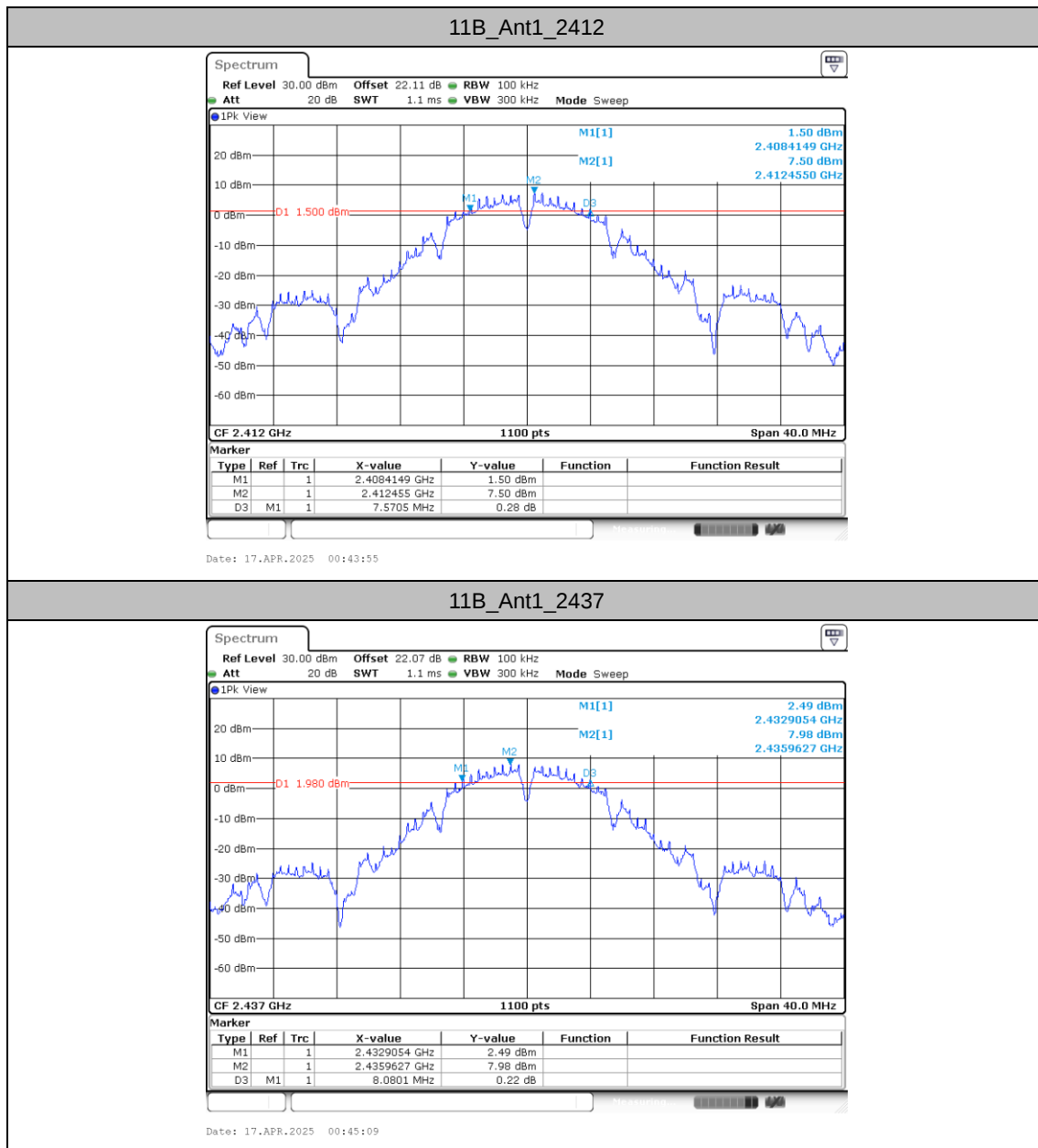
Appendix A. Conducted Test Results

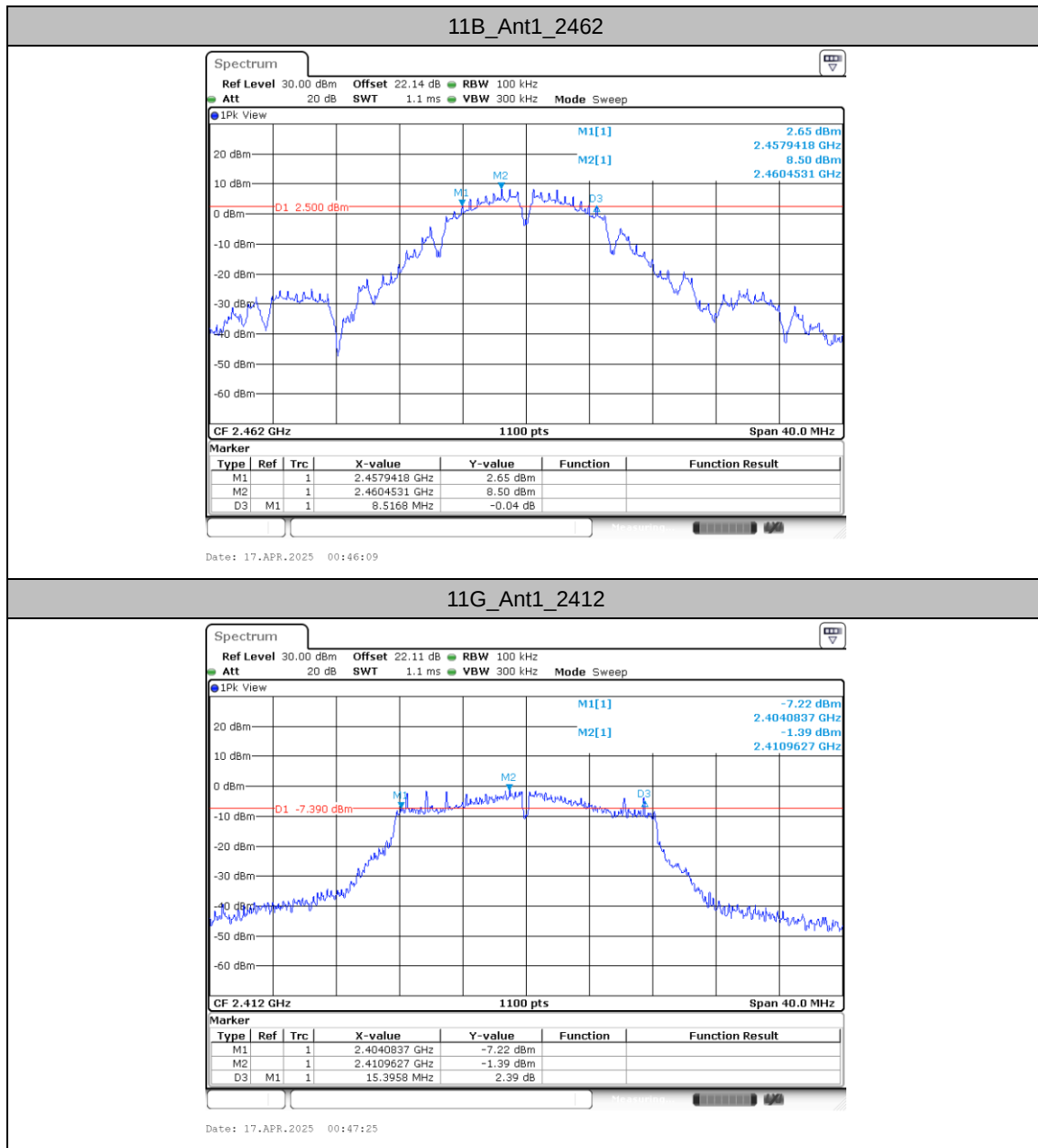
**Ambient Condition:** 25 °C, 45 %RH**Test Date:** 2025.4.17**Test Engineer:** Jiang Jun**DTS Bandwidth****Test Result**

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.57	2408.41	2415.99	0.5	PASS
		2437	8.08	2432.91	2440.99	0.5	PASS
		2462	8.52	2457.94	2466.46	0.5	PASS
11G	Ant1	2412	15.40	2404.08	2419.48	0.5	PASS
		2437	15.47	2429.37	2444.84	0.5	PASS
		2462	13.94	2455.61	2469.55	0.5	PASS
11N20 SISO	Ant1	2412	15.14	2404.37	2419.52	0.5	PASS
		2437	15.18	2429.37	2444.55	0.5	PASS
		2462	15.18	2454.37	2469.55	0.5	PASS



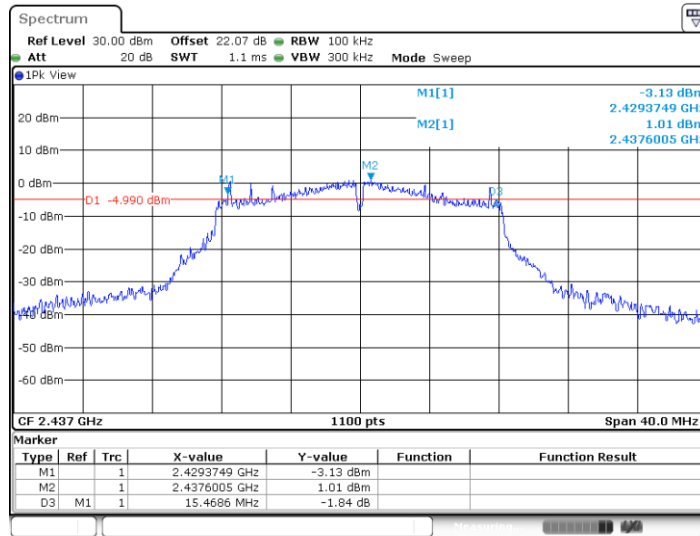
Test Graphs



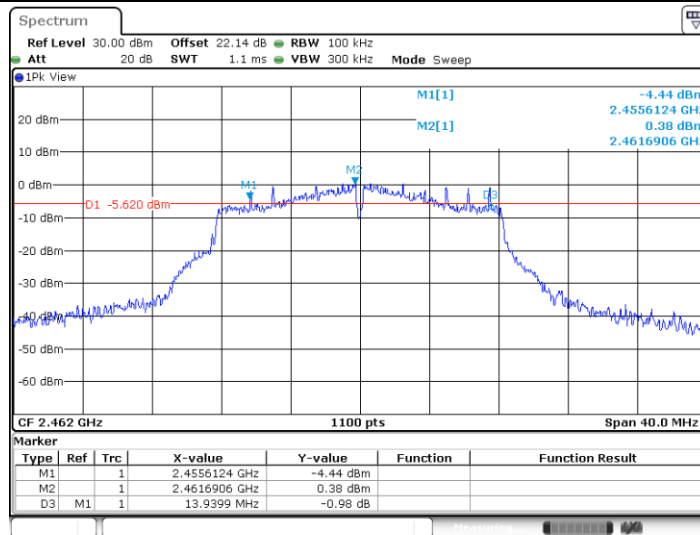




11G_Ant1_2437

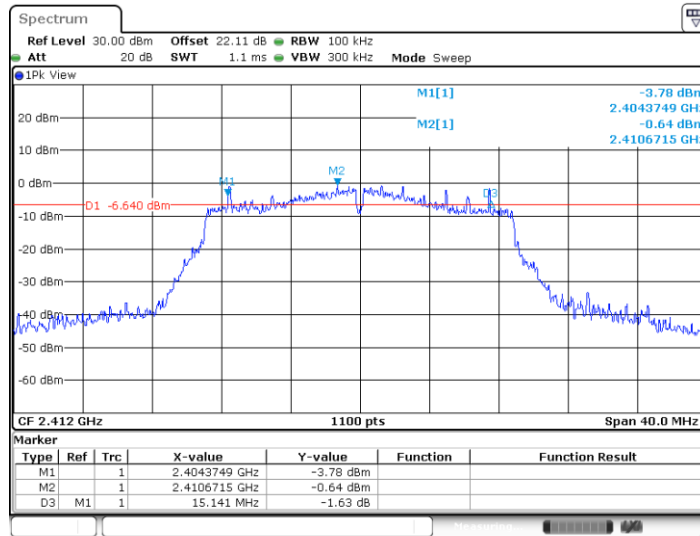


11G_Ant1_2462



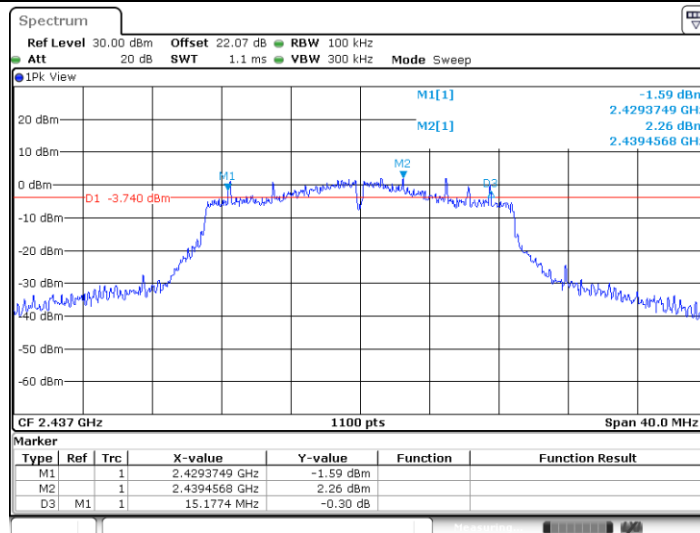


11N20SISO_Ant1_2412

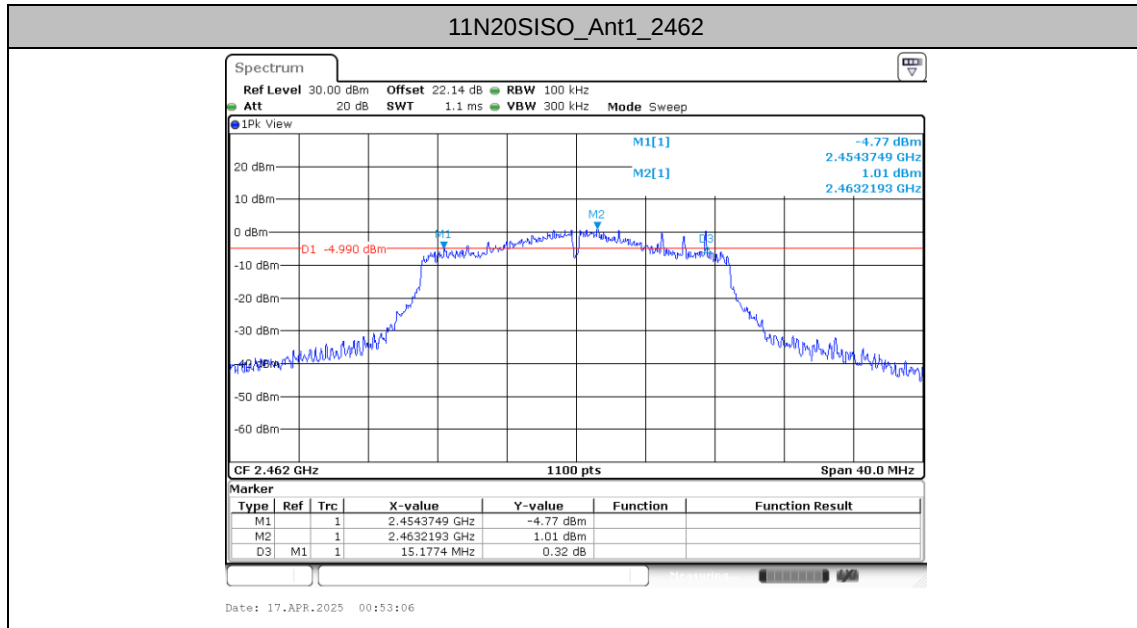


Date: 17.APR.2025 00:50:52

11N20SISO_Ant1_2437



Date: 17.APR.2025 00:52:06





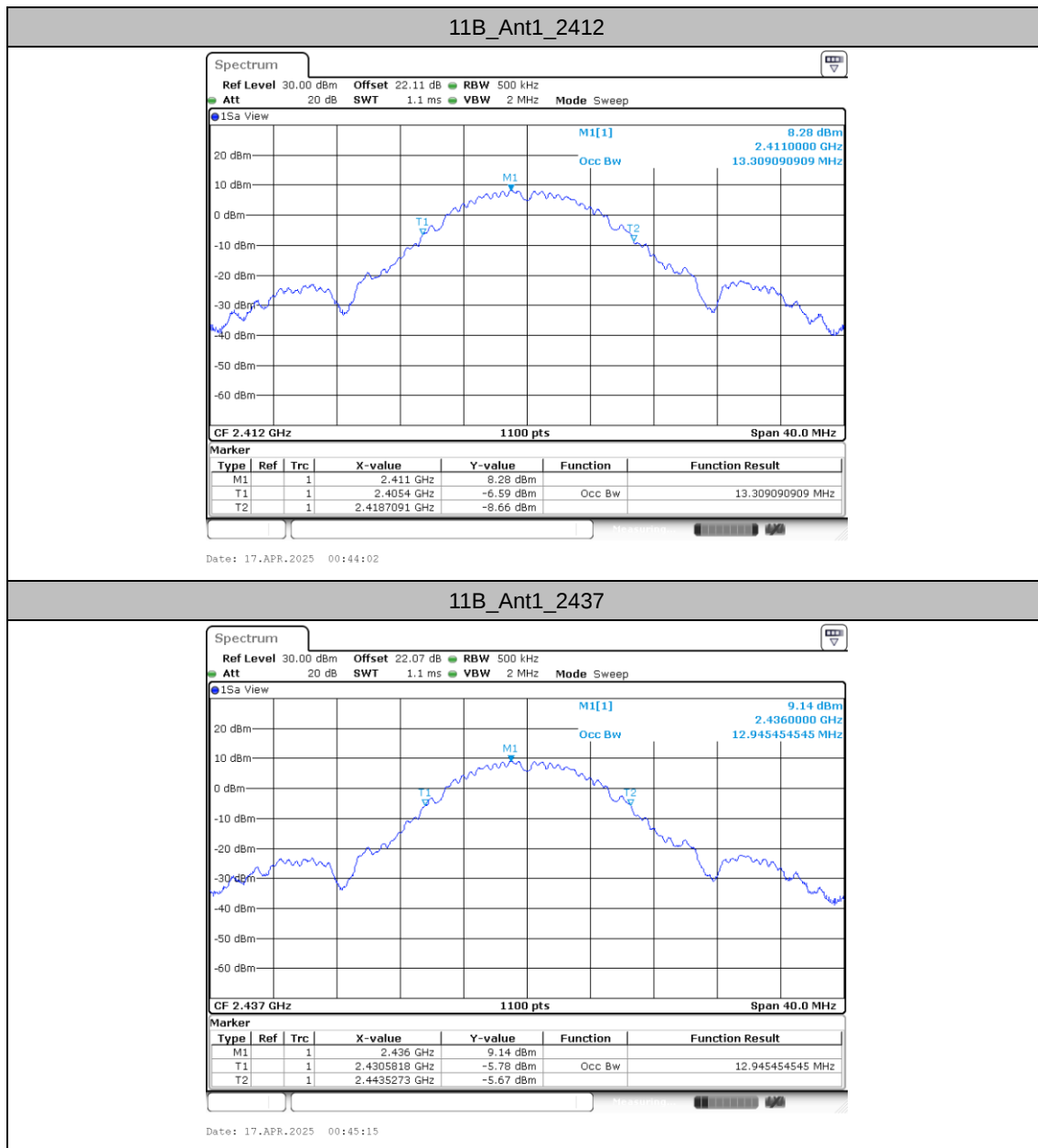
Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.309	2405.4000	2418.7091	---	---
		2437	12.945	2430.5818	2443.5273	---	---
		2462	12.691	2455.7273	2468.4182	---	---
11G	Ant1	2412	17.382	2403.0727	2420.4545	---	---
		2437	17.491	2428.0364	2445.5273	---	---
		2462	17.2	2453.2545	2470.4545	---	---
11N20 SISO	Ant1	2412	18.255	2402.7455	2421.0000	---	---
		2437	18.4	2427.7455	2446.1455	---	---
		2462	18.109	2452.8909	2471.0000	---	---

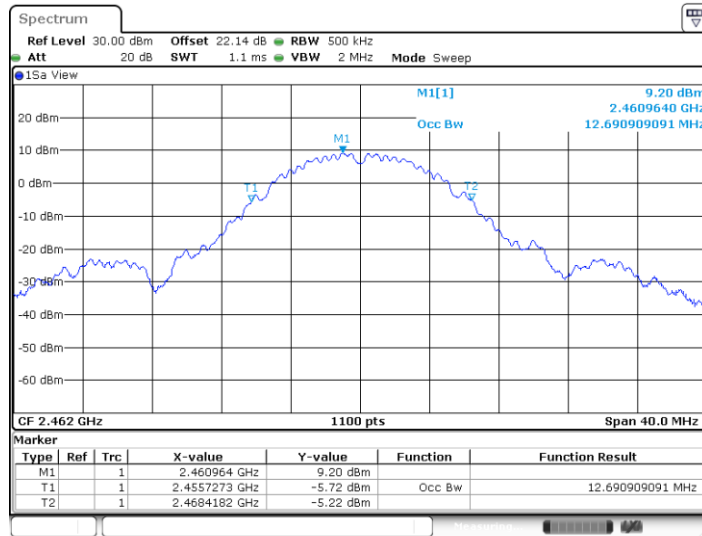


Test Graphs



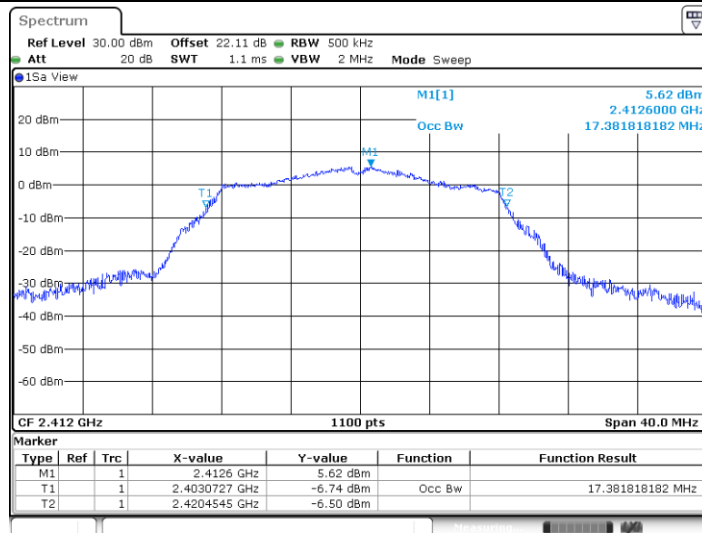


11B_Ant1_2462



Date: 17.APR.2025 00:46:15

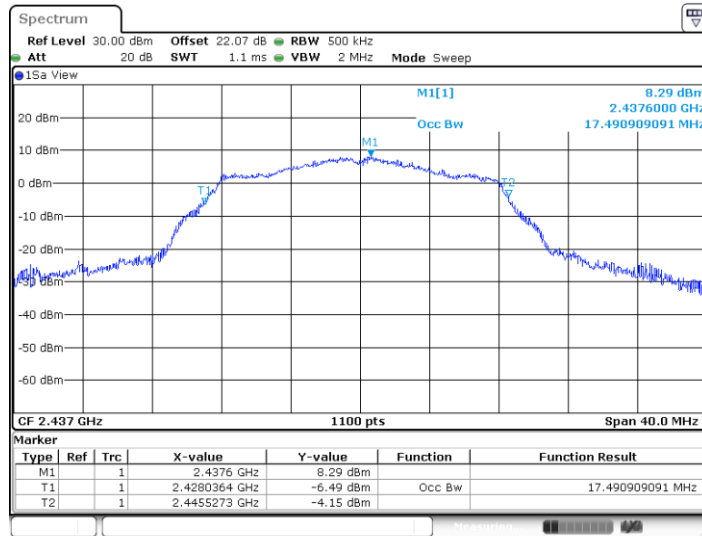
11G_Ant1_2412



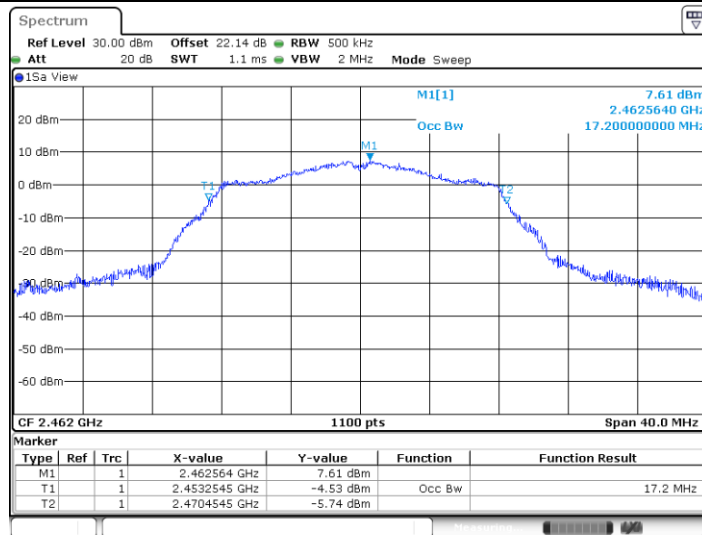
Date: 17.APR.2025 00:47:32



11G_Ant1_2437

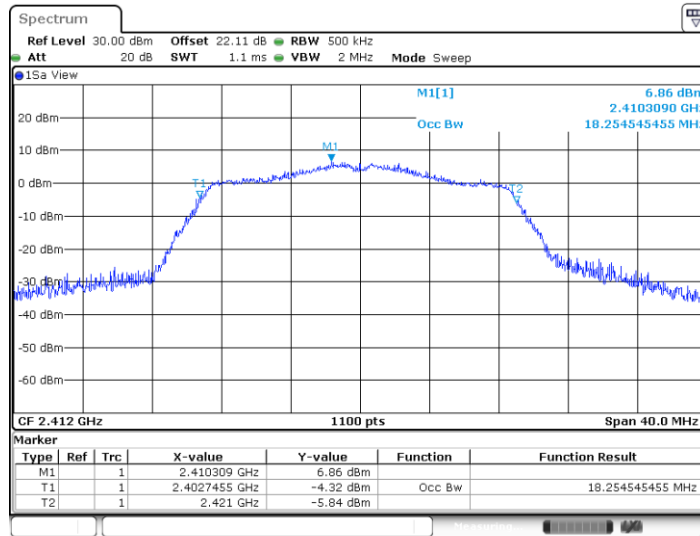


11G_Ant1_2462



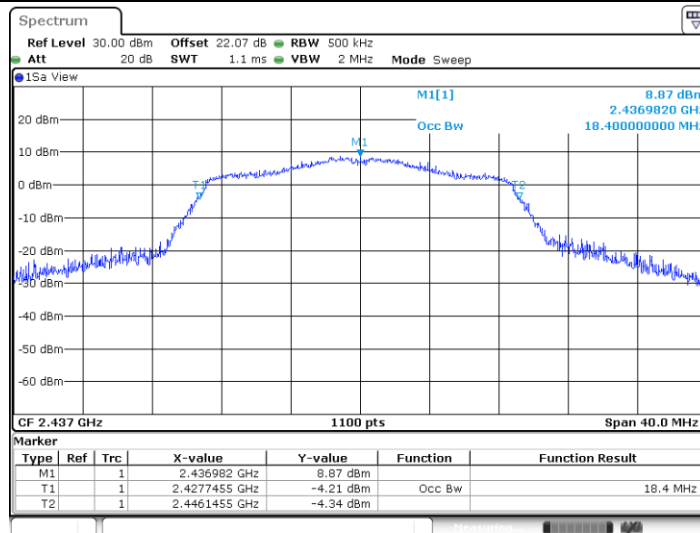


11N20SISO_Ant1_2412

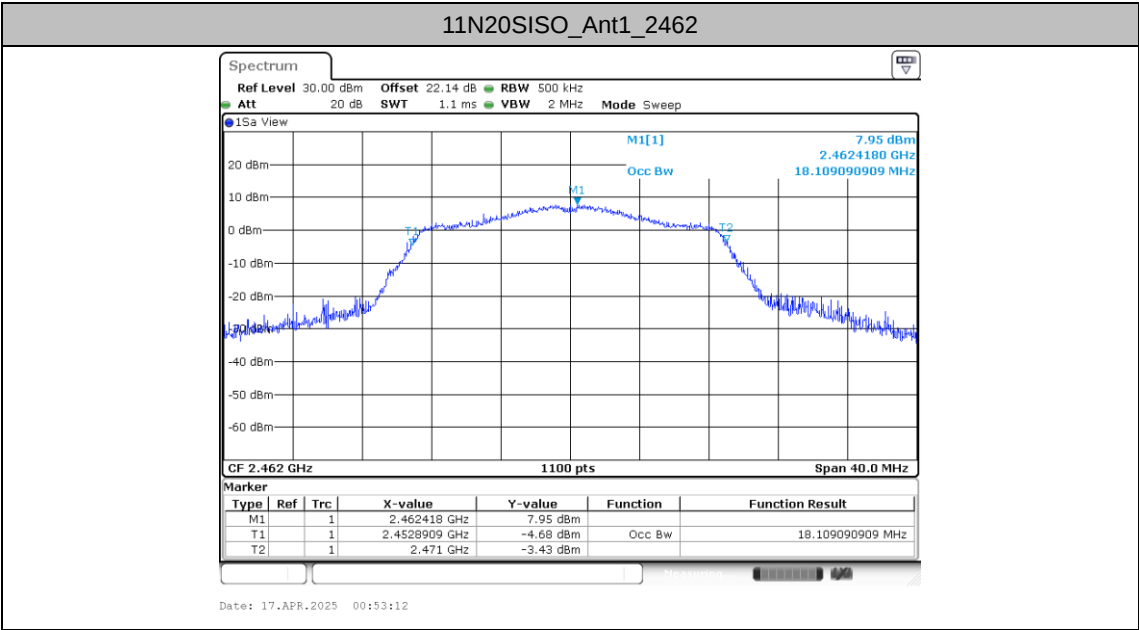


Date: 17.APR.2025 00:50:59

11N20SISO_Ant1_2437



Date: 17.APR.2025 00:52:12





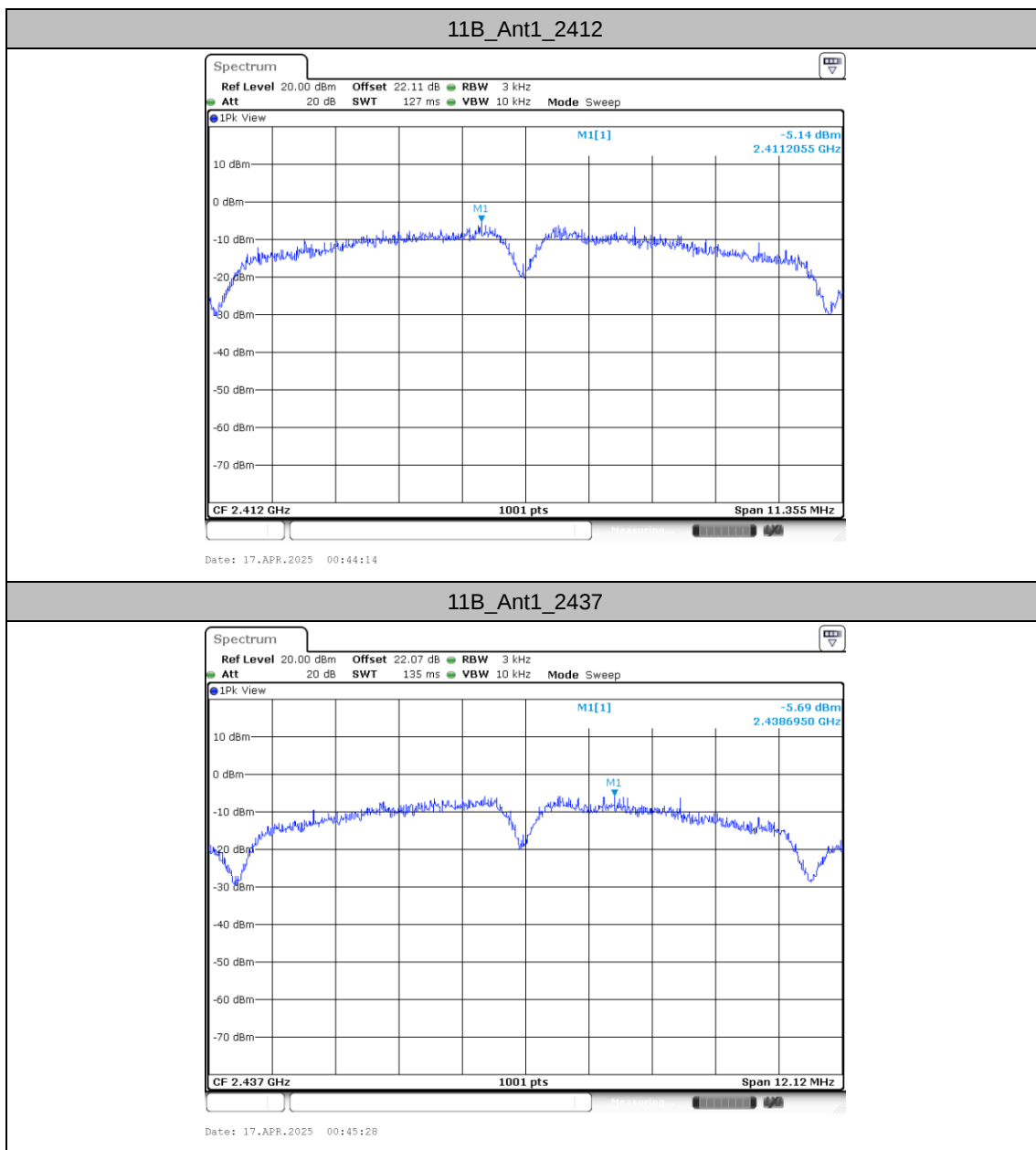
Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-5.14	≤8.00	PASS
		2437	-5.69	≤8.00	PASS
		2462	-4.89	≤8.00	PASS
11G	Ant1	2412	-12.7	≤8.00	PASS
		2437	-9.51	≤8.00	PASS
		2462	-10.44	≤8.00	PASS
11N20 SISO	Ant1	2412	-12.39	≤8.00	PASS
		2437	-9.64	≤8.00	PASS
		2462	-10.85	≤8.00	PASS

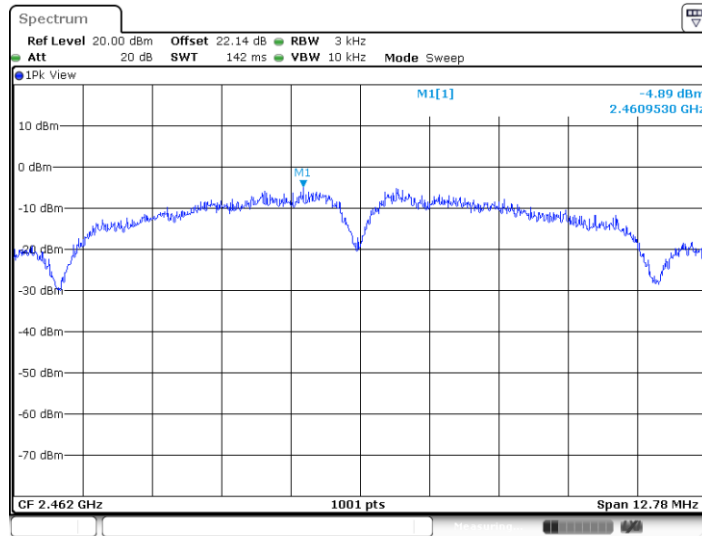


Test Graphs



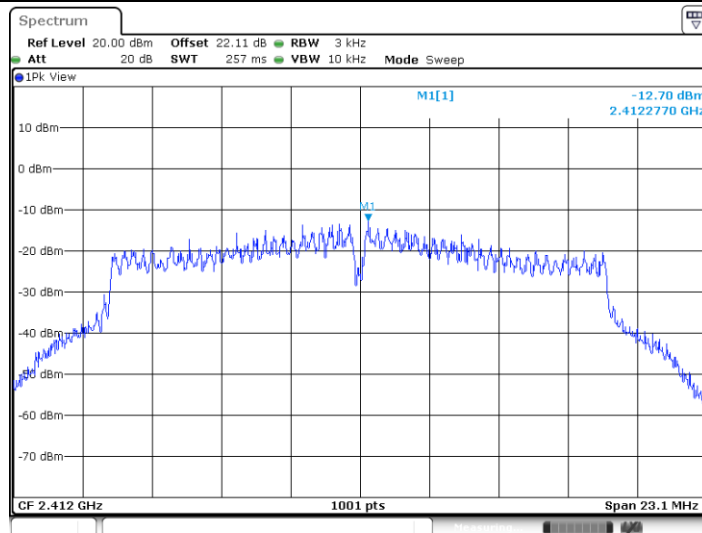


11B_Ant1_2462

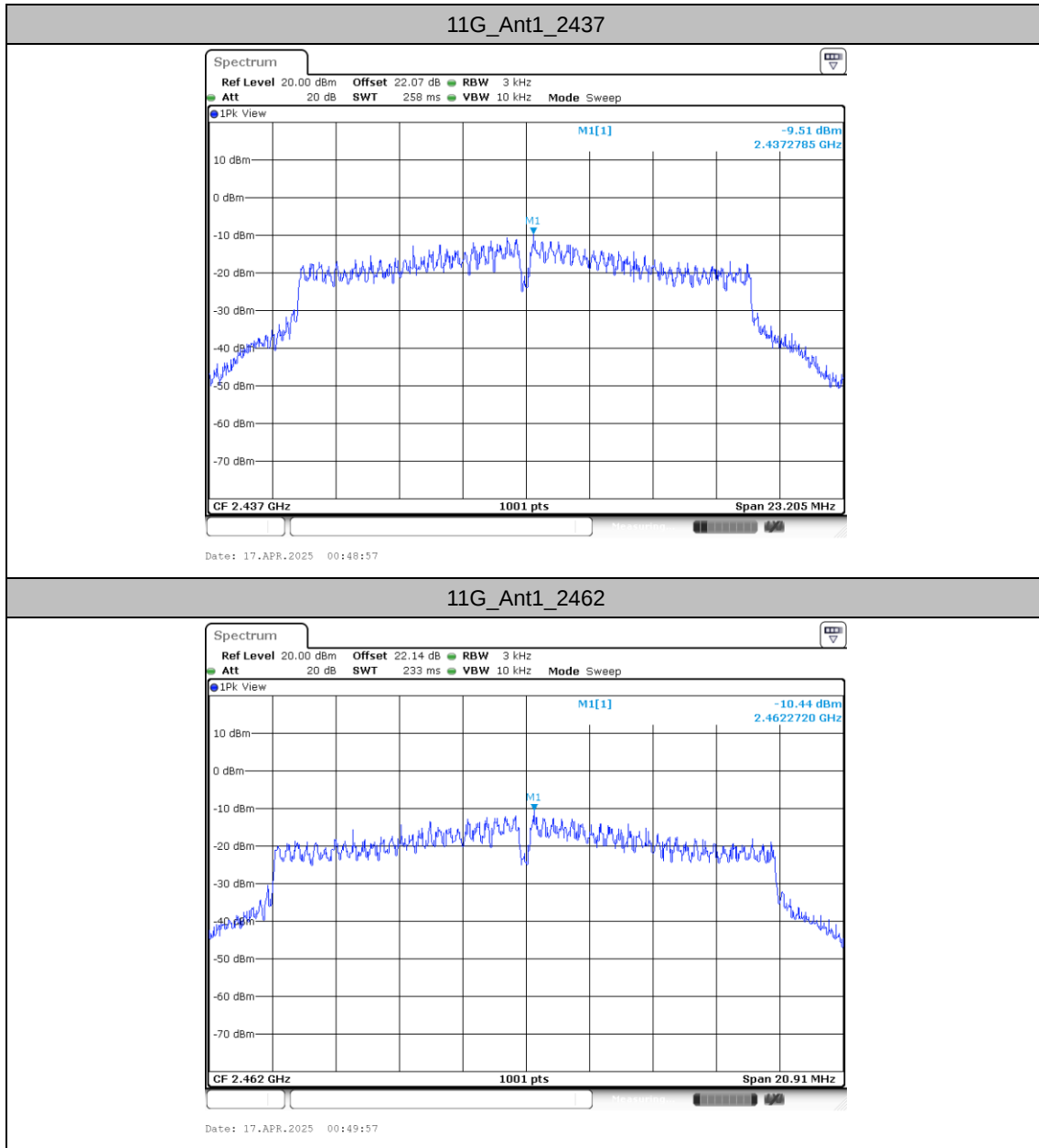


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11G_Ant1_2412

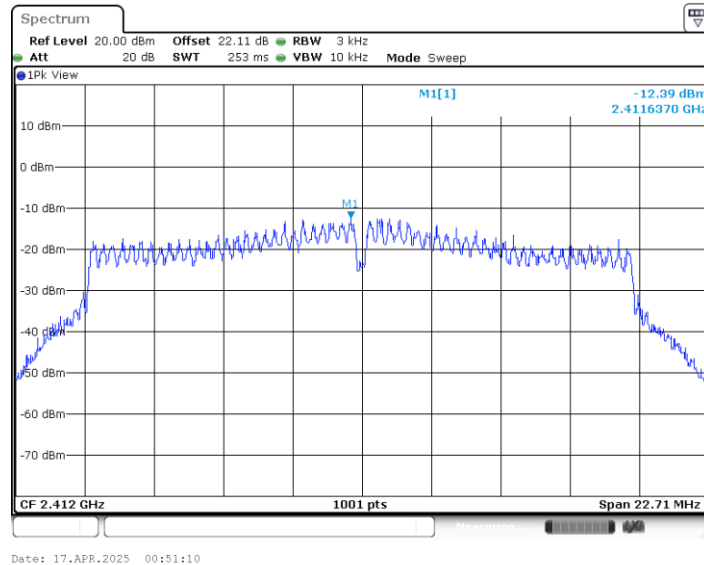


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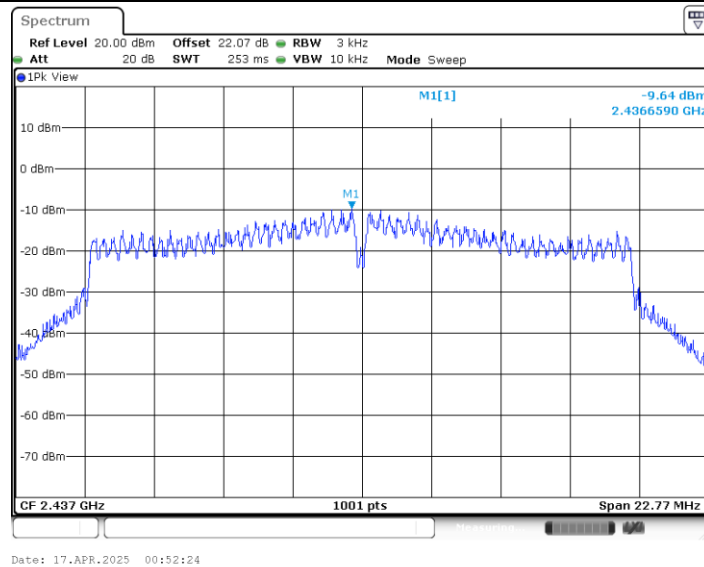


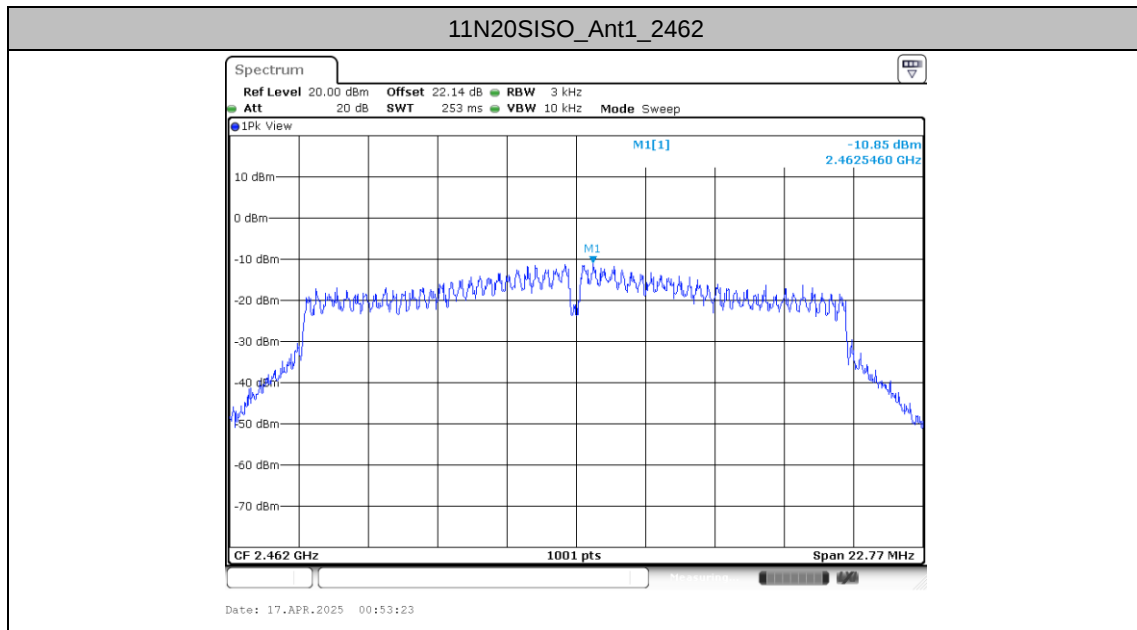


11N20SISO_Ant1_2412



11N20SISO_Ant1_2437







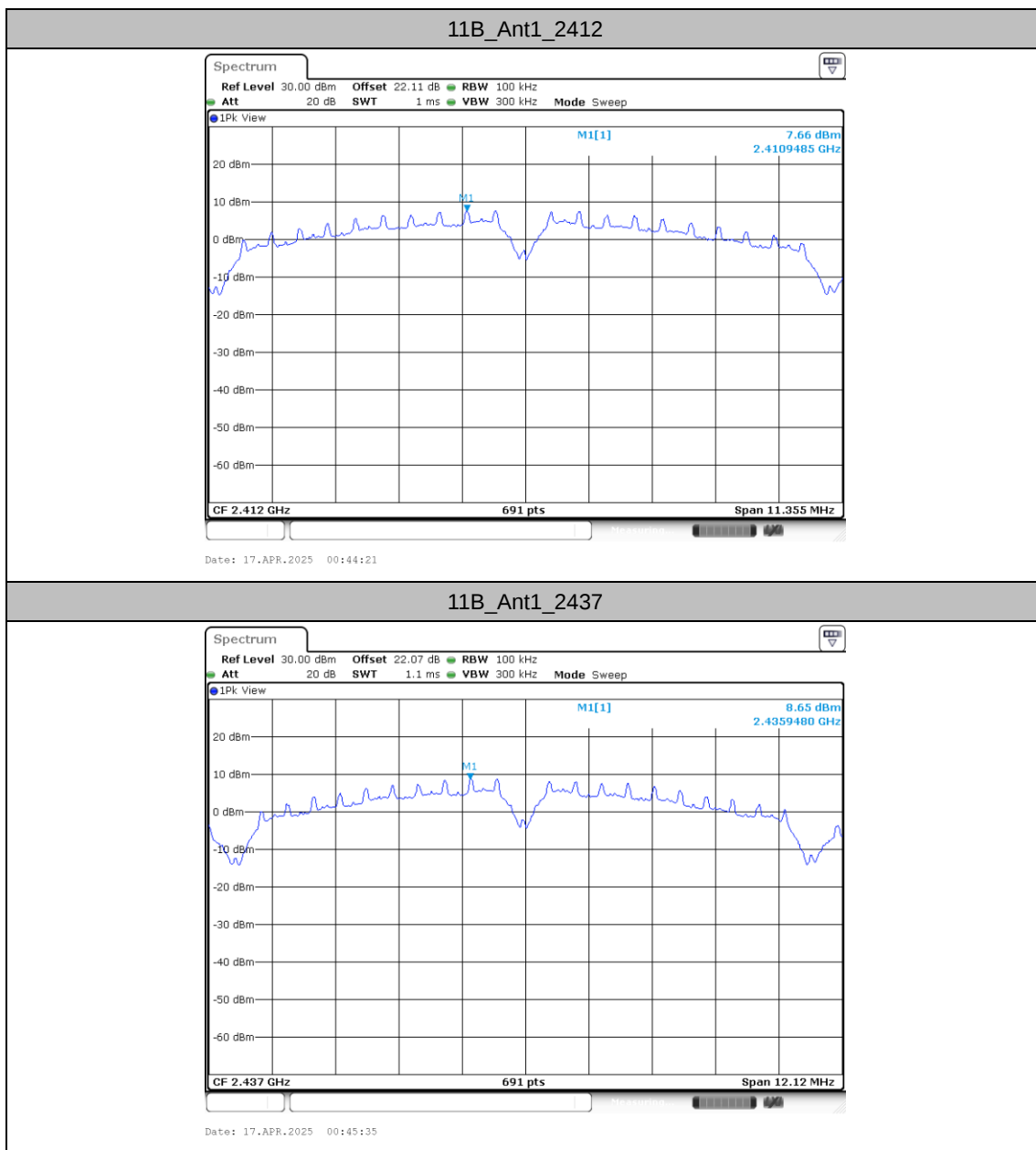
Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm/100KHz]
11B	Ant1	2412	2410.95	7.66
		2437	2435.95	8.65
		2462	2462.44	8.32
11G	Ant1	2412	2410.96	-1.40
		2437	2435.96	1.44
		2462	2462.58	0.46
11N20 SISO	Ant1	2412	2406.94	-0.32
		2437	2430.71	2.25
		2462	2460.68	1.12

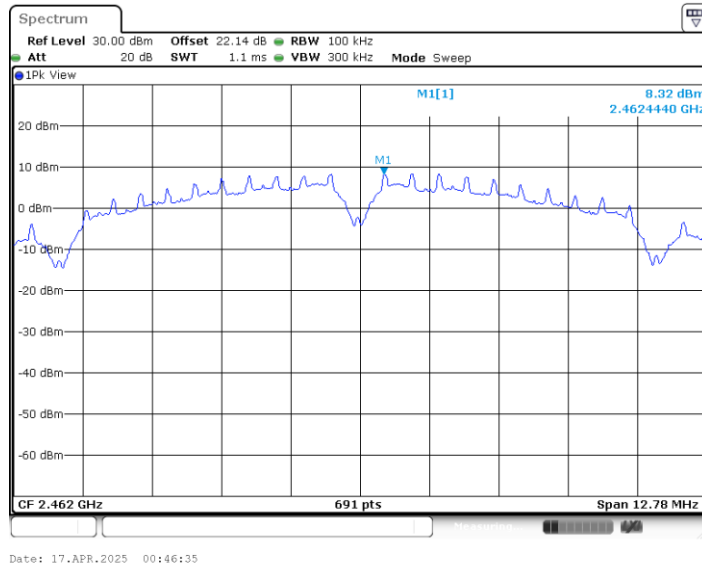


Test Graphs

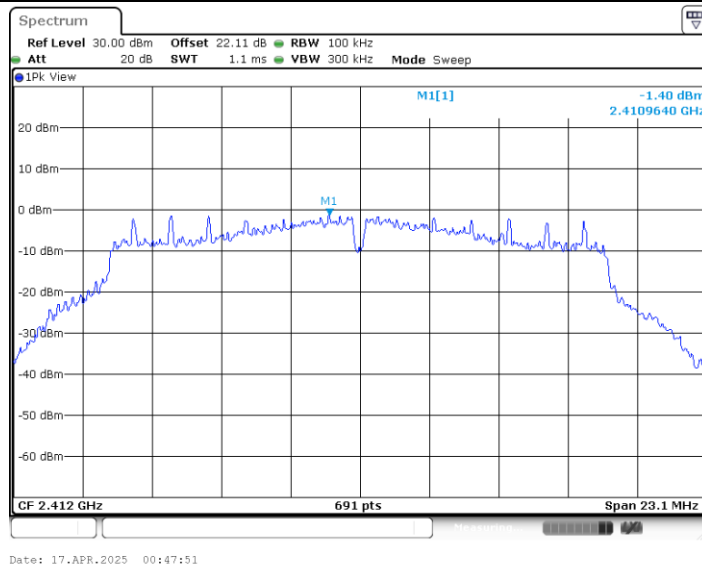


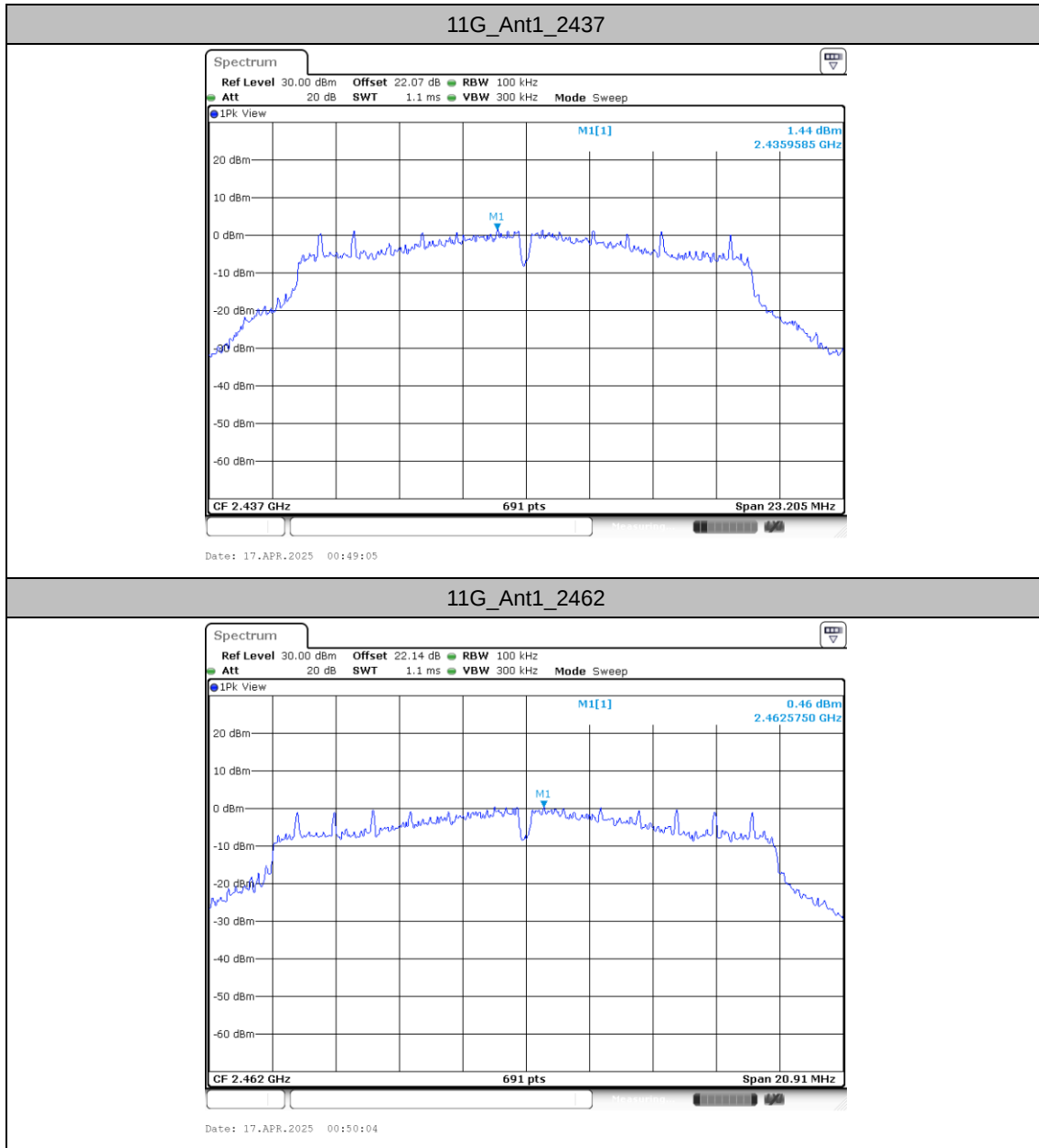


11B_Ant1_2462



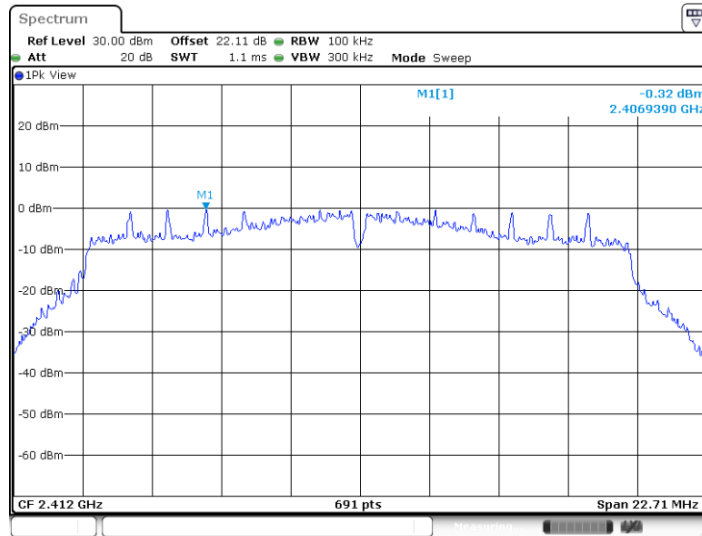
11G_Ant1_2412



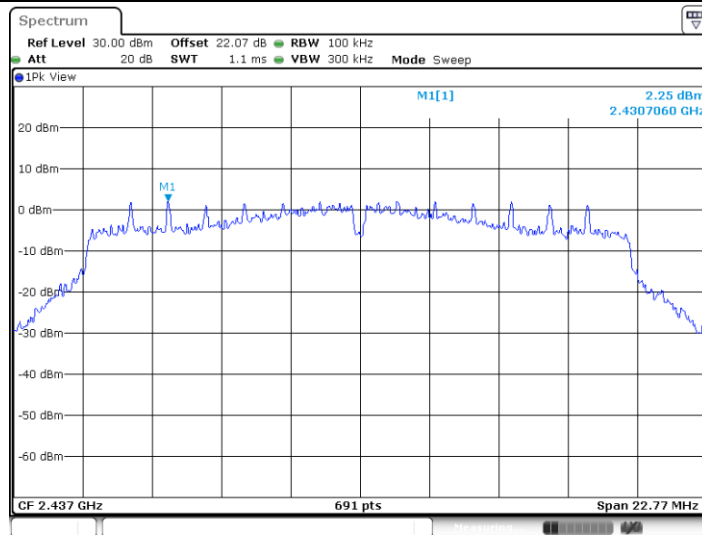


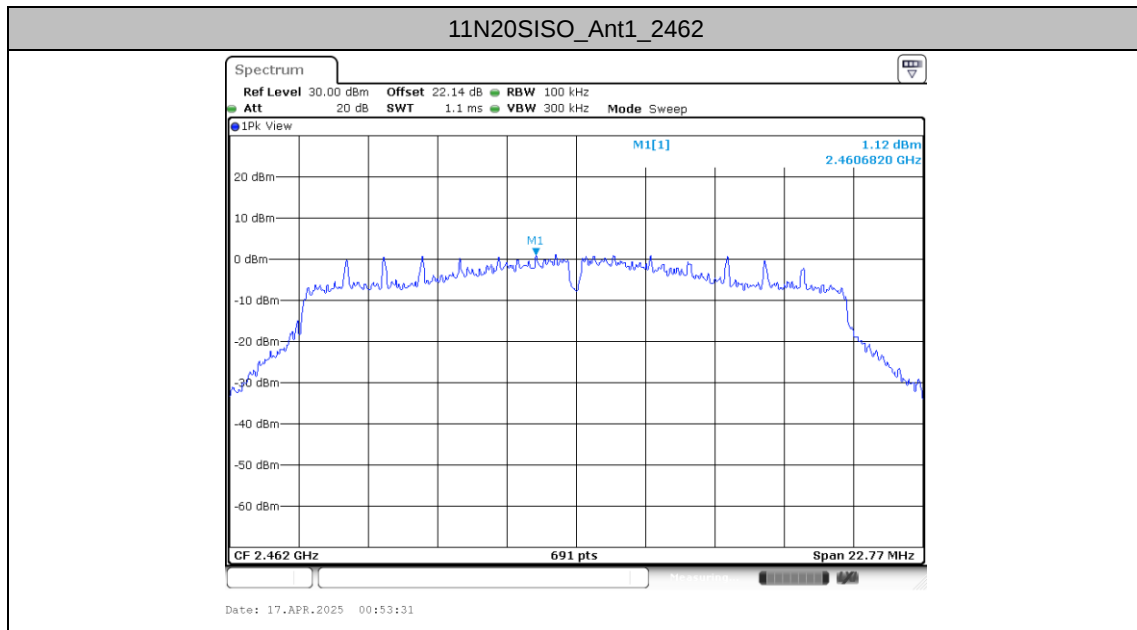


11N20SISO_Ant1_2412



11N20SISO_Ant1_2437







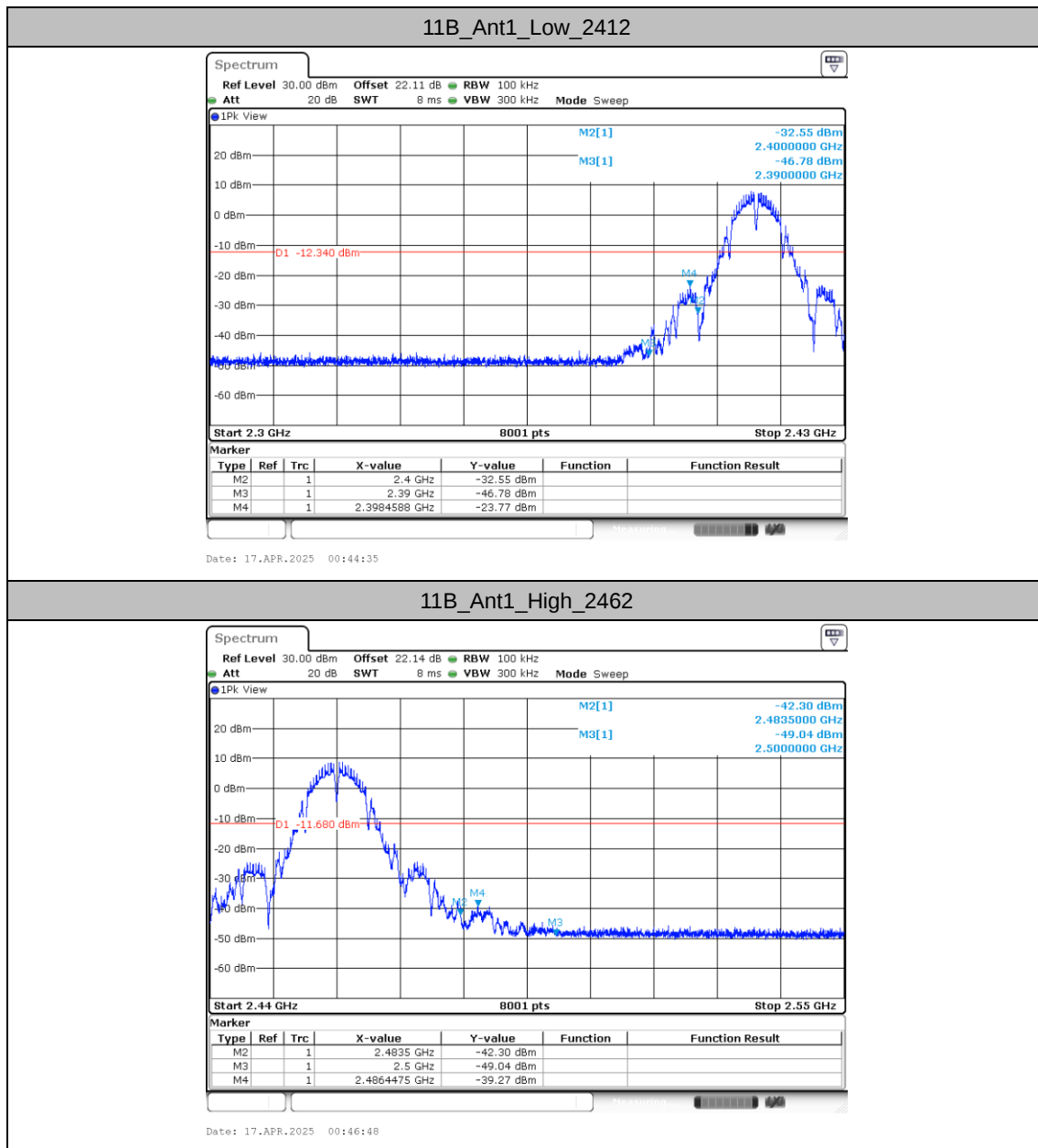
Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq (MHz)	RefLevel[dBm /100KHz]	Result[dBm /100KHz]	Limit[dBm /100KHz]	Verdict
11B	Ant1	Low	2412	7.66	-23.77	≤-12.34	PASS
		High	2462	8.32	-39.27	≤-11.68	PASS
11G	Ant1	Low	2412	-1.40	-34.74	≤-21.4	PASS
		High	2462	0.46	-42.43	≤-19.54	PASS
11N20 SISO	Ant1	Low	2412	-0.32	-33.8	≤-20.32	PASS
		High	2462	1.12	-40.42	≤-18.88	PASS

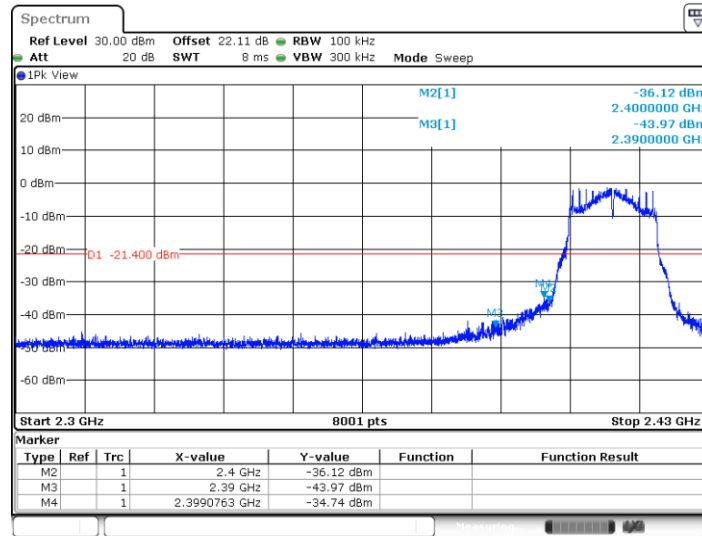


Test Graphs

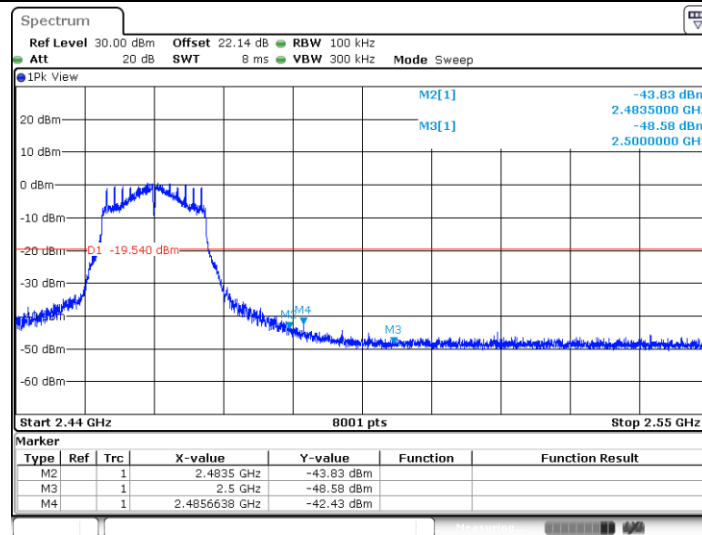




11G_Ant1_Low_2412

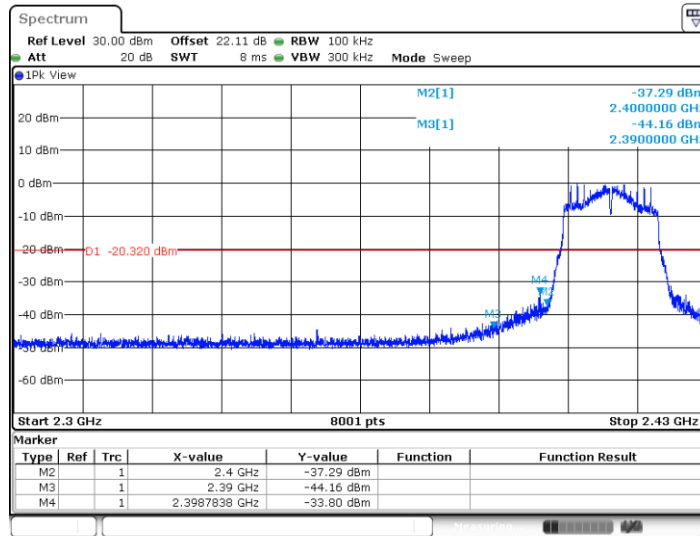


11G_Ant1_High_2462

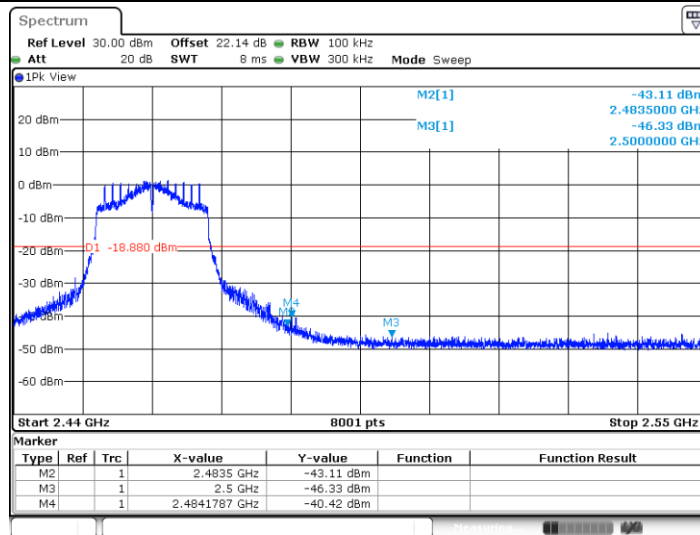




11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462





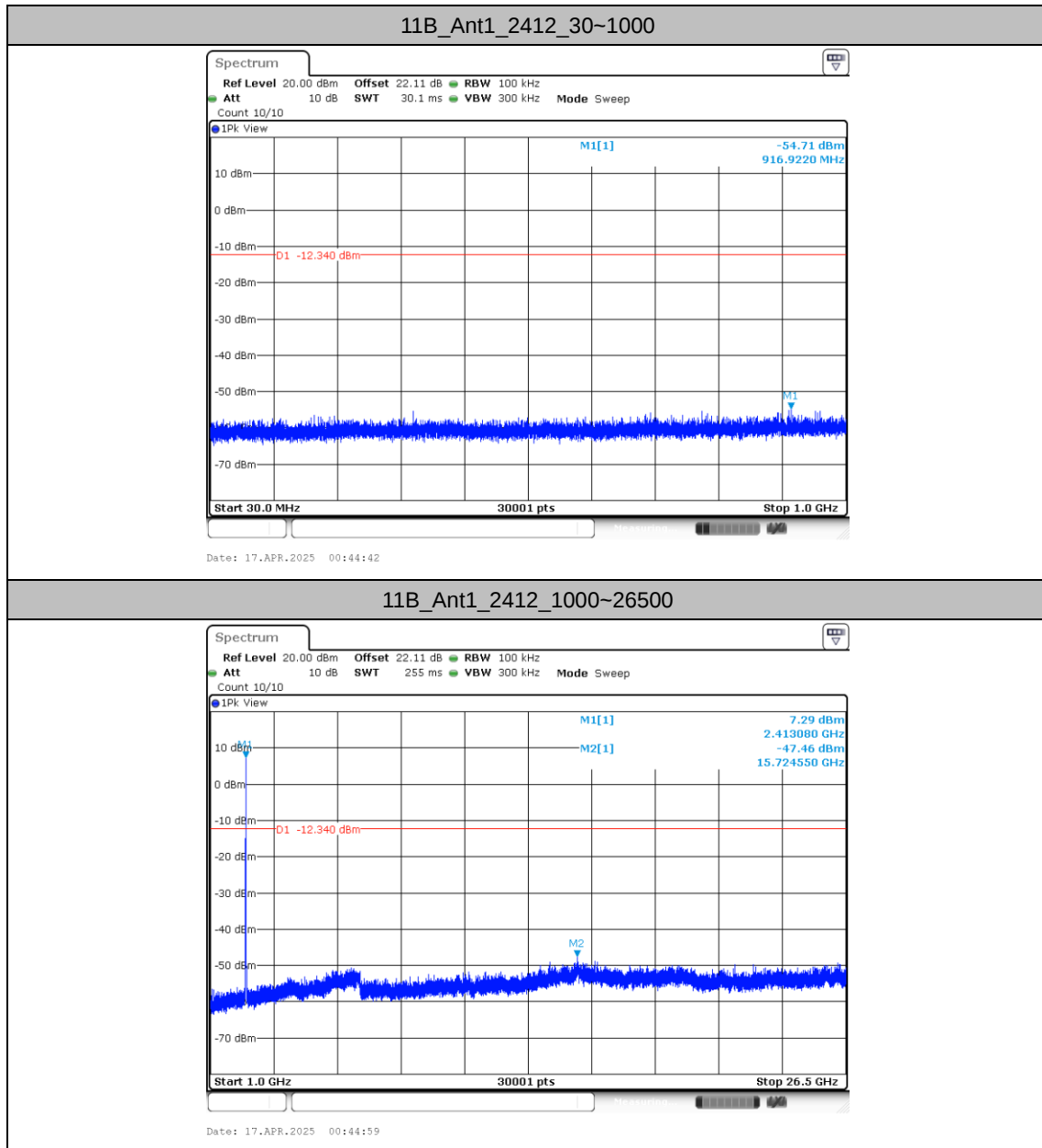
Conducted Spurious Emission

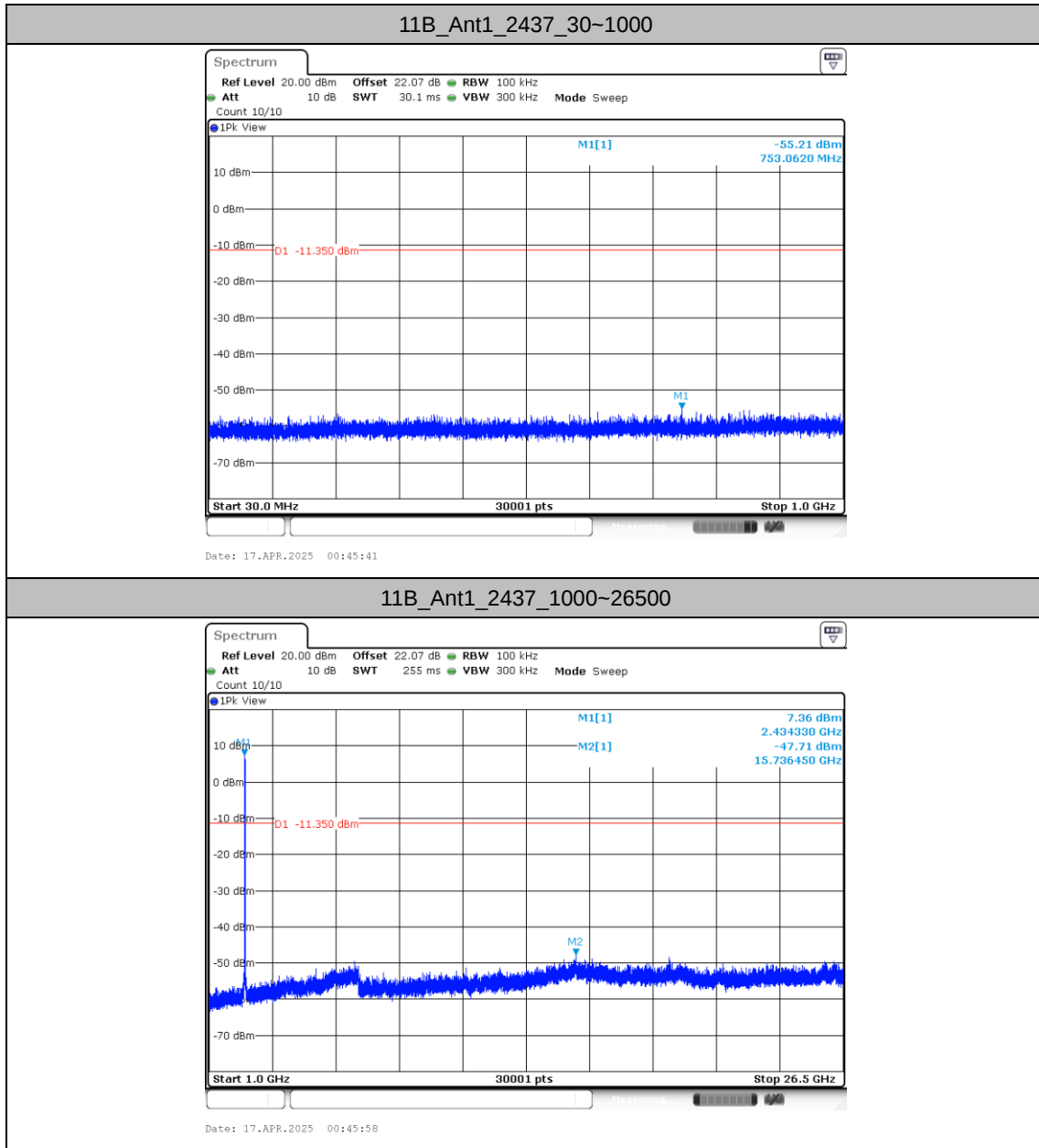
Test Result

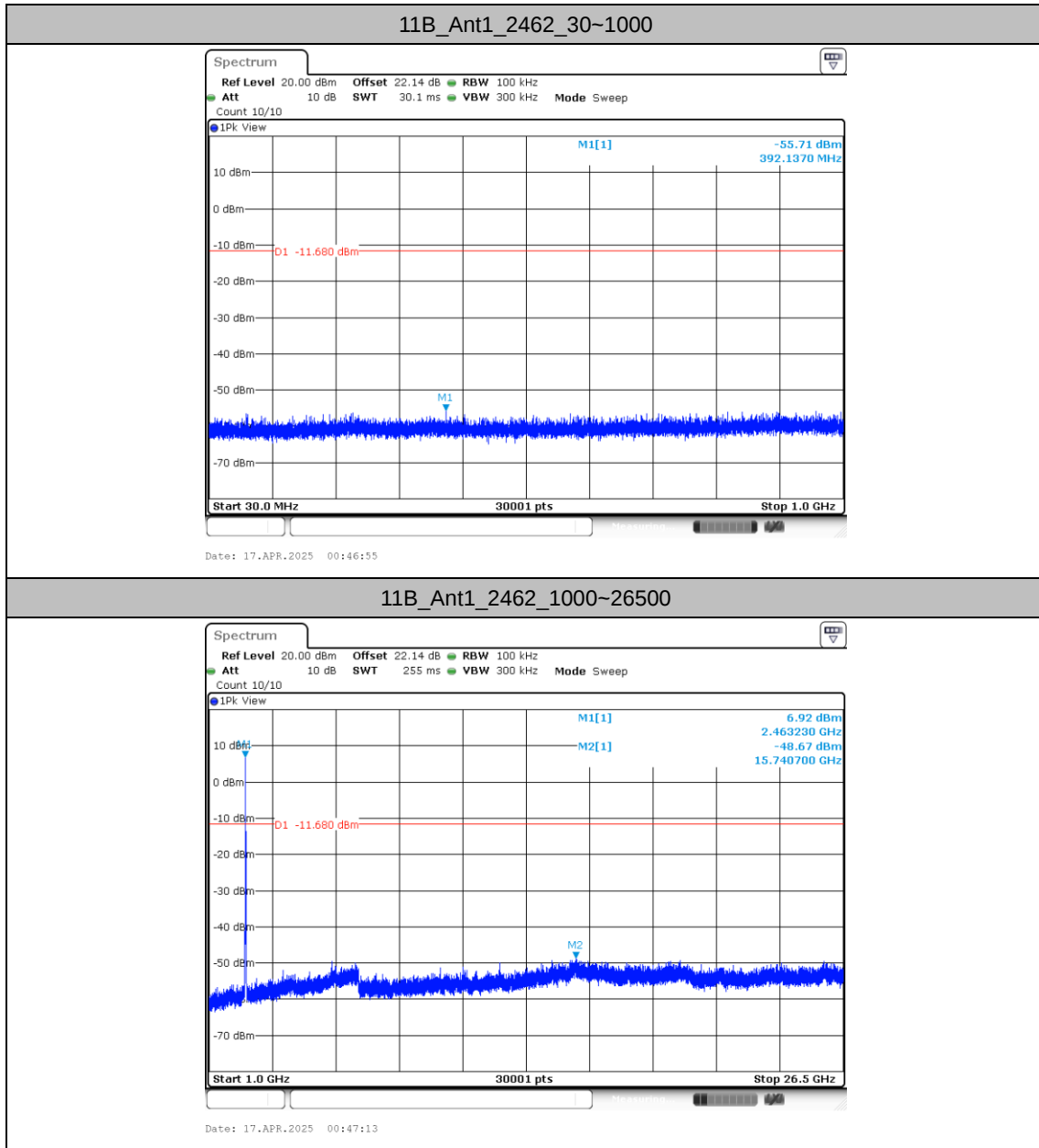
TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm/100KHz]	Result [dBm/100KHz]	Limit [dBm/100KHz]	Verdict
11B	Ant1	2412	30~1000	7.66	-54.71	≤-12.34	PASS
			1000~26500	7.66	-47.46	≤-12.34	PASS
		2437	30~1000	8.65	-55.21	≤-11.35	PASS
			1000~26500	8.65	-47.71	≤-11.35	PASS
		2462	30~1000	8.32	-55.71	≤-11.68	PASS
			1000~26500	8.32	-48.67	≤-11.68	PASS
11G	Ant1	2412	30~1000	-1.40	-55.46	≤-21.4	PASS
			1000~26500	-1.40	-48.18	≤-21.4	PASS
		2437	30~1000	1.44	-55	≤-18.56	PASS
			1000~26500	1.44	-48.48	≤-18.56	PASS
		2462	30~1000	0.46	-55.43	≤-19.54	PASS
			1000~26500	0.46	-48.65	≤-19.54	PASS
11N20 SISO	Ant1	2412	30~1000	-0.32	-55.48	≤-20.32	PASS
			1000~26500	-0.32	-49	≤-20.32	PASS
		2437	30~1000	2.25	-55.48	≤-17.75	PASS
			1000~26500	2.25	-48.67	≤-17.75	PASS
		2462	30~1000	1.12	-55.11	≤-18.88	PASS
			1000~26500	1.12	-48.45	≤-18.88	PASS

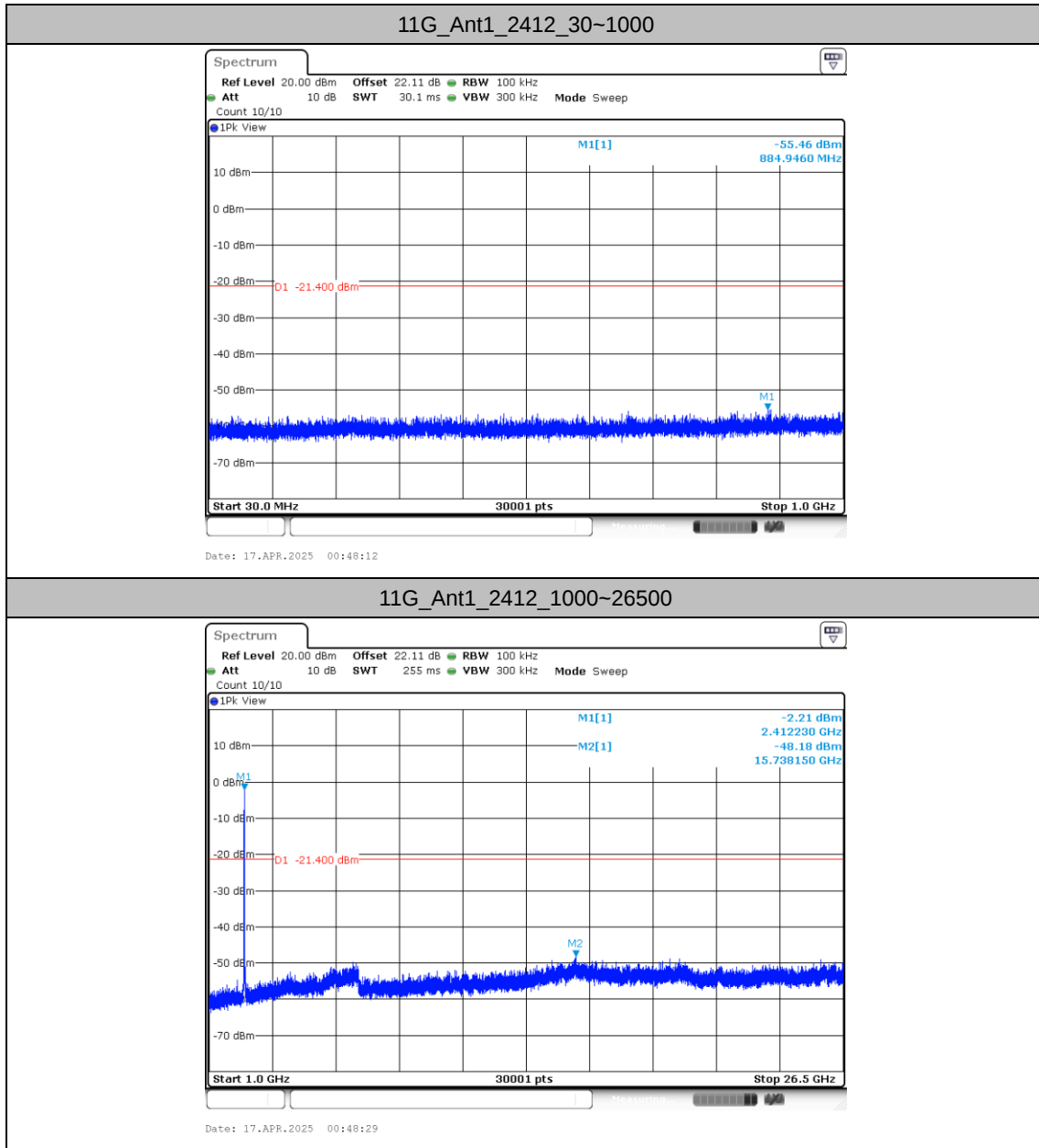


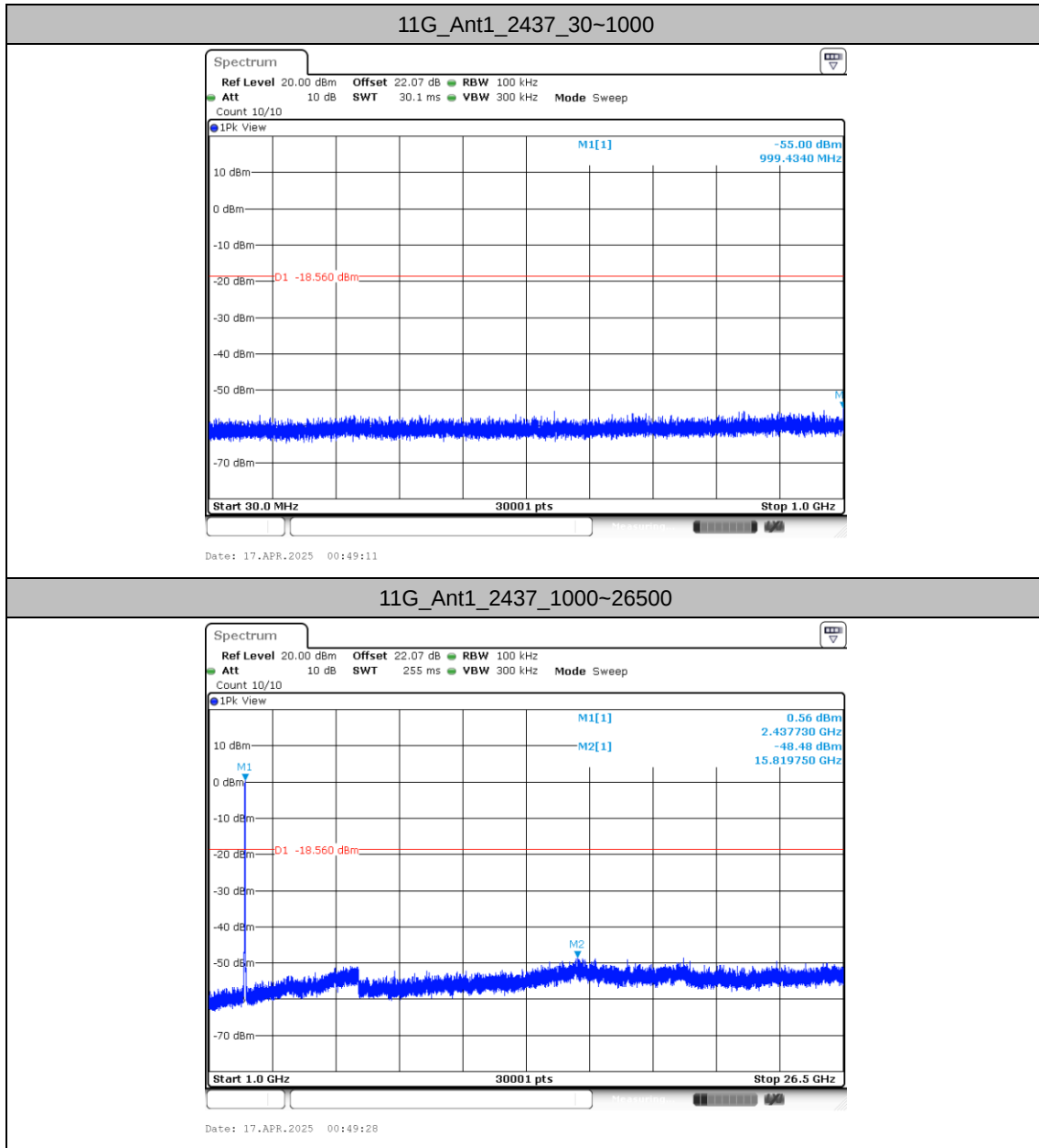
Test Graphs

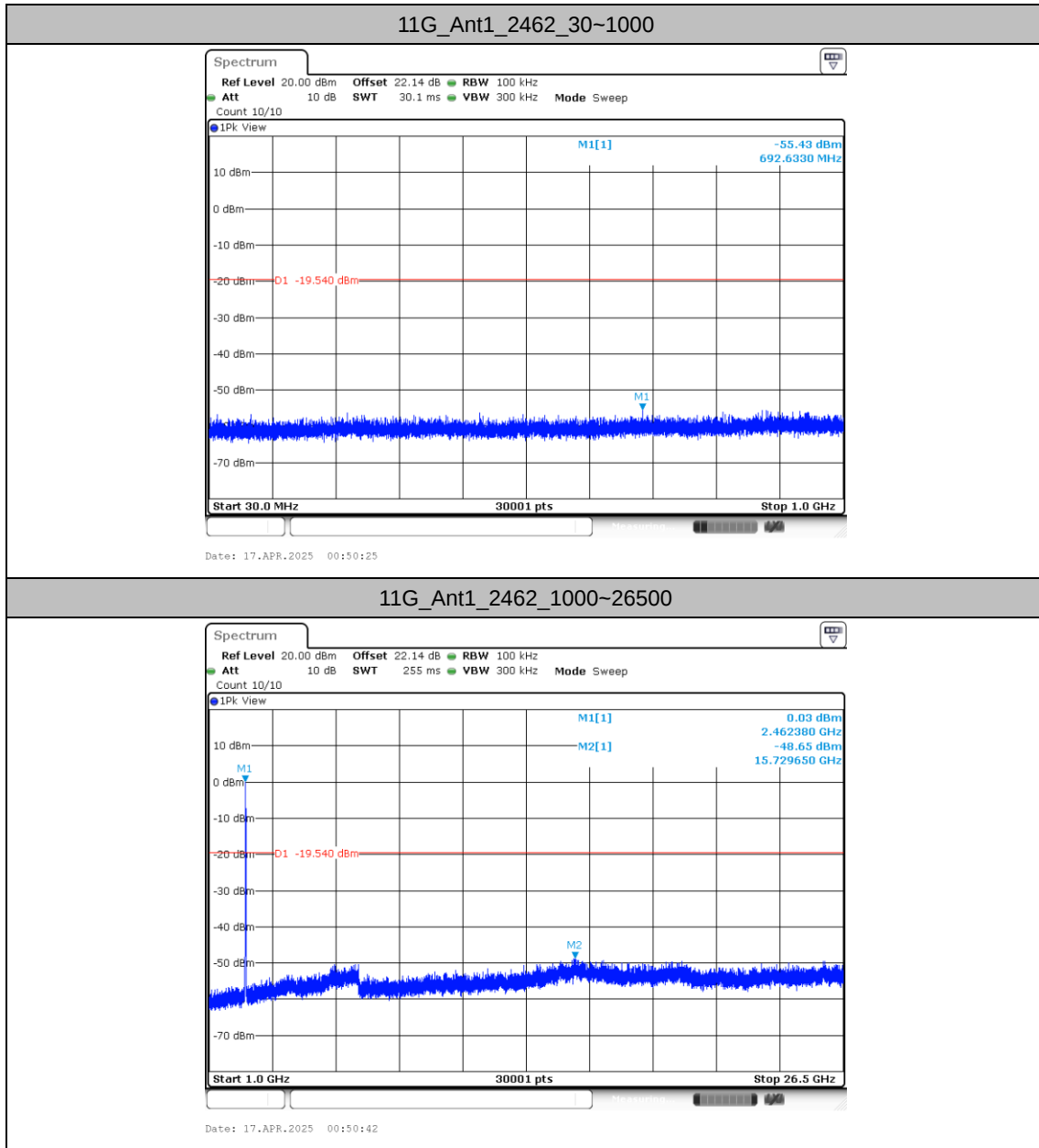


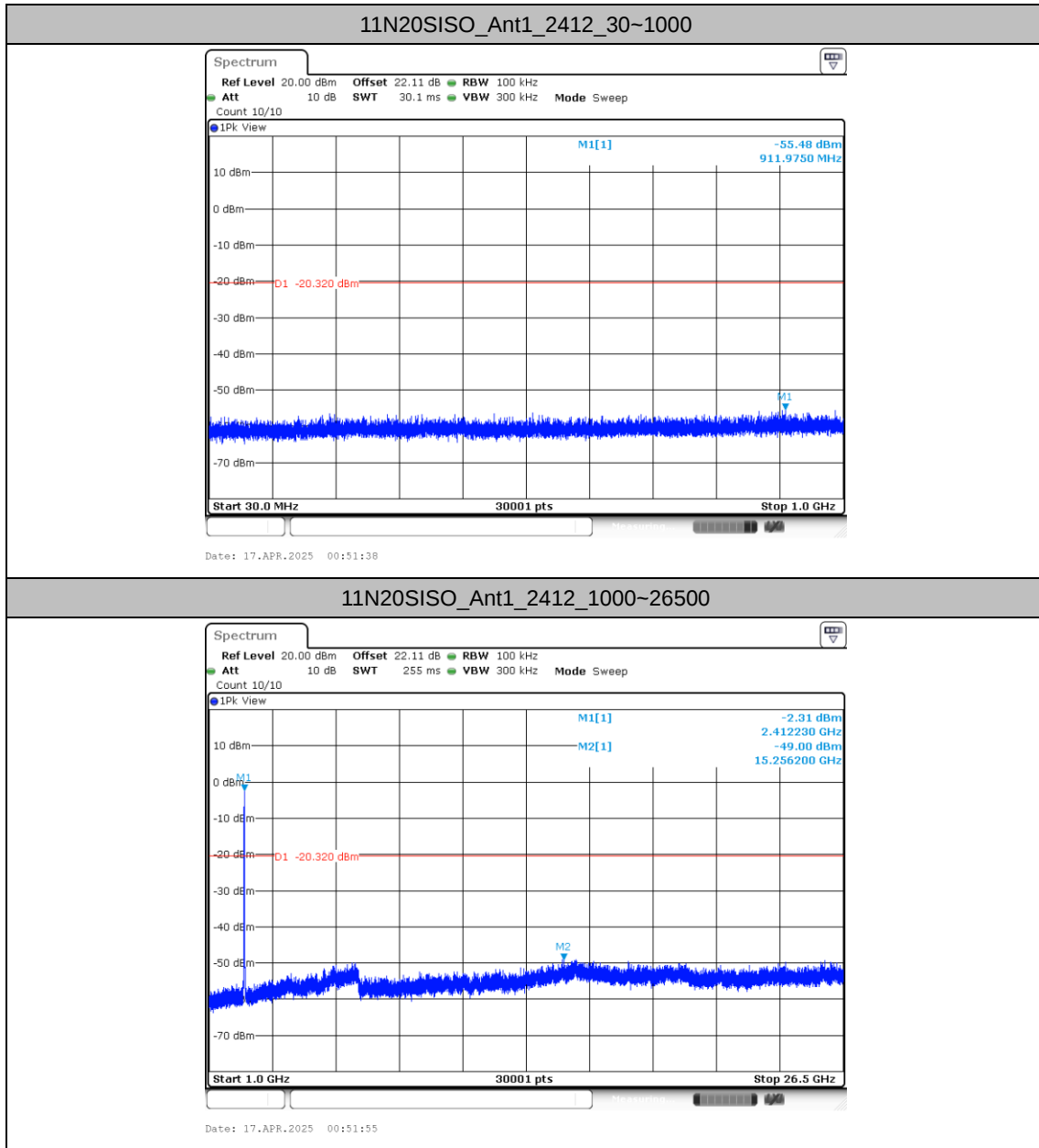


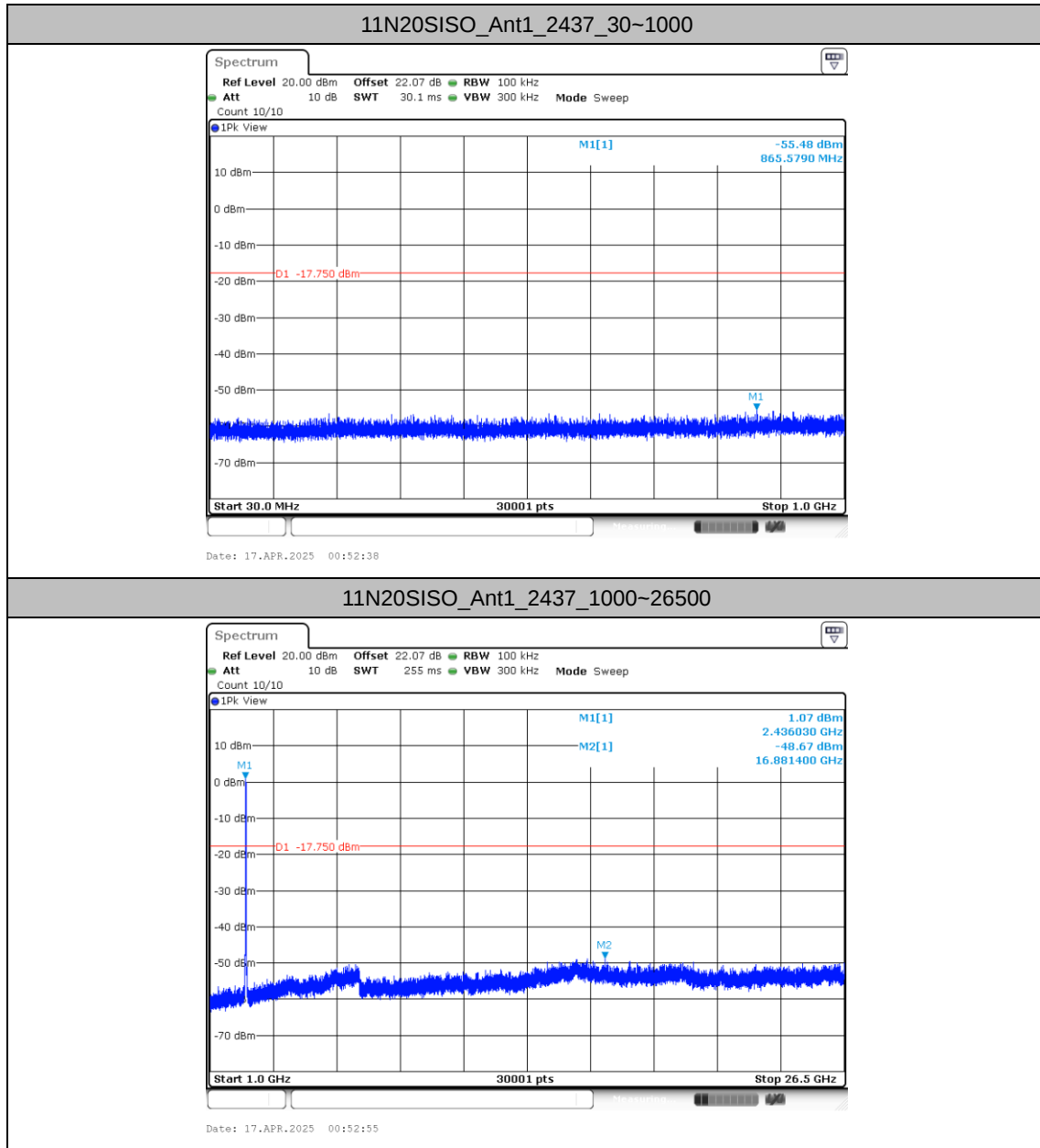


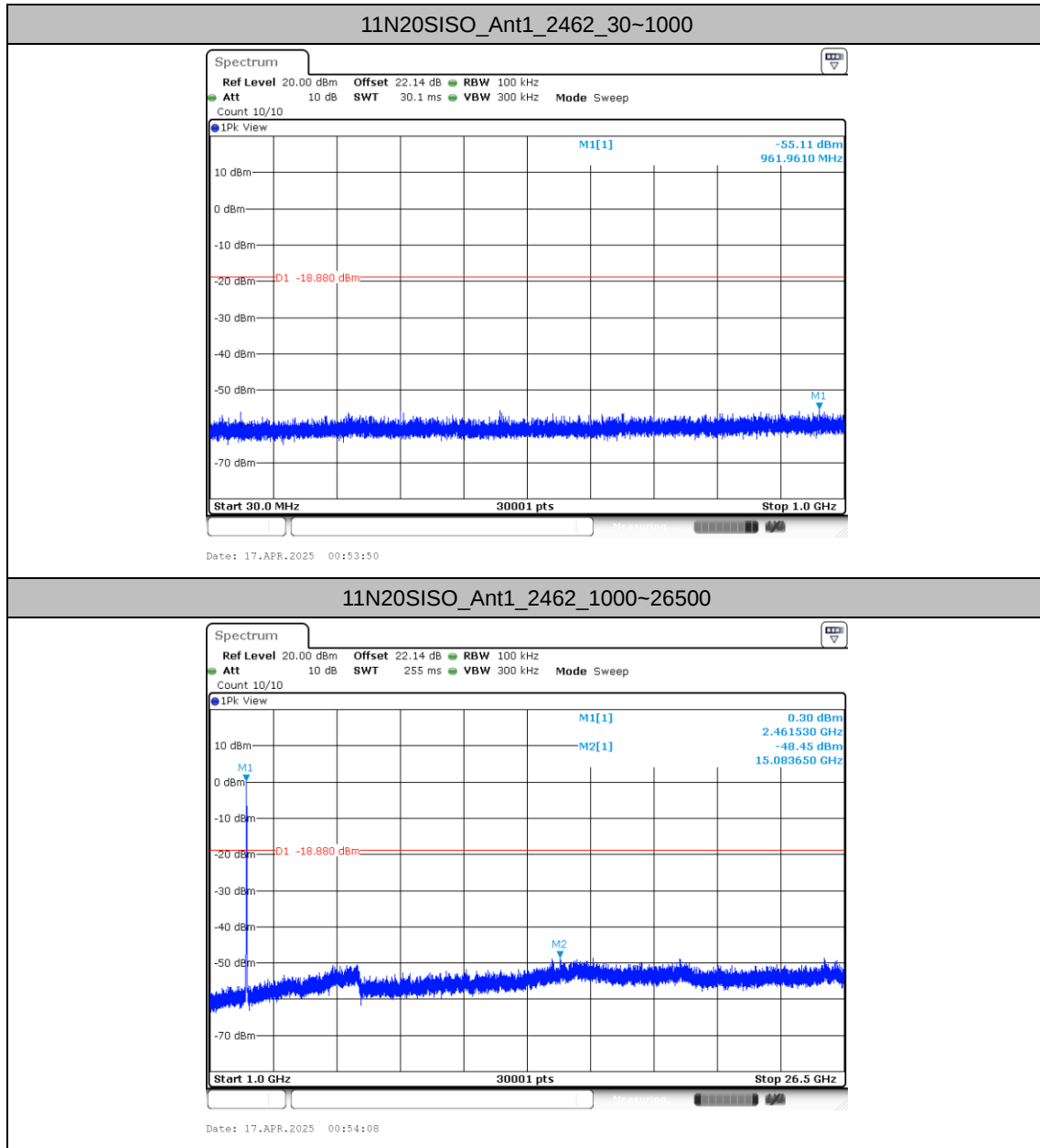














Appendix B. Radiated Spurious Emission

Test Engineer :	Koi Ji	Relative Humidity :	41~43%
		Temperature :	20.2~21.5℃

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	1	802.11b	01	2412	1Mbps	-	-
Mode 2	2400-2483.5	1	802.11b	06	2437	1Mbps	-	-
Mode 3	2400-2483.5	1	802.11b	11	2462	1Mbps	-	-
Mode 4	2400-2483.5	1	802.11g	01	2412	6Mbps	-	-
Mode 5	2400-2483.5	1	802.11g	06	2437	6Mbps	-	-
Mode 6	2400-2483.5	1	802.11g	11	2462	6Mbps	-	-
Mode 7	2400-2483.5	1	802.11n HT20	01	2412	MCS0	-	-
Mode 8	2400-2483.5	1	802.11n HT20	06	2437	MCS0	-	-
Mode 9	2400-2483.5	1	802.11n HT20	11	2462	MCS0	-	-

Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11b	01	2389.95	52.56	54.00	-1.44	H	AVERAGE	Pass	Band Edge
1	802.11b	01	4824.00	41.85	74.00	-32.15	H	PEAK	Pass	Harmonic
2	802.11b	06	-	-	-	-	-	-	-	Band Edge
2	802.11b	06	4874.00	41.96	74.00	-32.04	H	PEAK	Pass	Harmonic
3	802.11b	11	2483.50	52.50	54.00	-1.50	H	AVERAGE	Pass	Band Edge
3	802.11b	11	6384.00	51.29	74.00	-22.71	H	PEAK	Pass	Harmonic
4	802.11g	01	2389.82	51.72	54.00	-2.28	H	AVERAGE	Pass	Band Edge
4	802.11g	01	4824.00	41.22	74.00	-32.78	H	PEAK	Pass	Harmonic
5	802.11g	06	-	-	-	-	-	-	-	Band Edge
5	802.11g	06	4874.00	41.80	74.00	-32.20	H	PEAK	Pass	Harmonic
6	802.11g	11	2483.50	53.59	54.00	-0.41	H	AVERAGE	Pass	Band Edge
6	802.11g	11	4924.00	40.99	74.00	-33.01	H	PEAK	Pass	Harmonic
7	802.11n HT20	01	2389.82	50.73	54.00	-3.27	H	AVERAGE	Pass	Band Edge
7	802.11n HT20	01	4824.00	41.59	74.00	-32.41	V	PEAK	Pass	Harmonic
8	802.11n HT20	06	-	-	-	-	-	-	-	Band Edge
8	802.11n HT20	06	4874.00	41.78	74.00	-32.22	H	PEAK	Pass	Harmonic
9	802.11n HT20	11	2483.56	52.67	54.00	-1.33	H	AVERAGE	Pass	Band Edge
9	802.11n HT20	11	4924.00	41.73	74.00	-32.27	H	PEAK	Pass	Harmonic

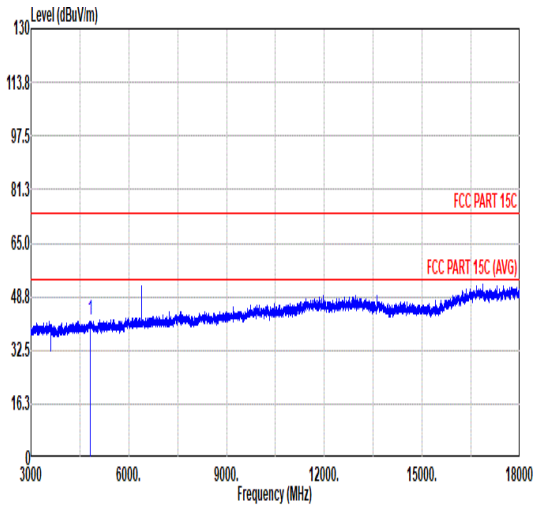
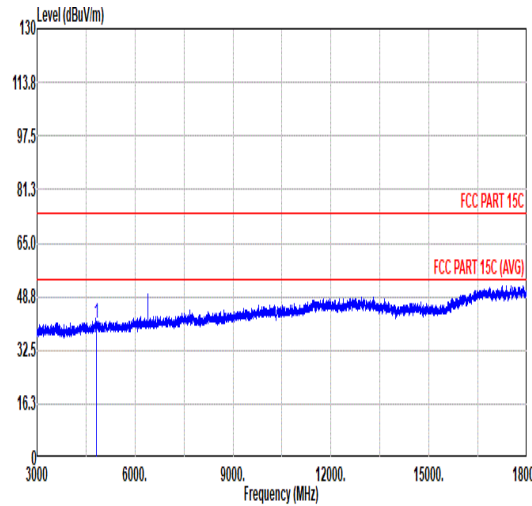


Mode	1																																																											
	Band Edge																																																											
	2400-2483.5_802.11b_CH01_2412MHz																																																											
ANT	1																																																											
Pol.	Horizontal						Fundamental																																																					
Peak																																																												
	<table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th colspan="3">Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2389.82</td><td>61.46</td><td>74.00</td><td>-12.54</td><td>45.96</td><td>32.14</td><td>8.05</td><td>30.69</td><td>6.00</td><td>294</td><td>233 PEAK</td></tr></tbody></table>													Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark			Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	2389.82	61.46	74.00	-12.54	45.96	32.14	8.05	30.69	6.00	294	233 PEAK
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																		
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																				
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																		
1	2389.82	61.46	74.00	-12.54	45.96	32.14	8.05	30.69	6.00	294	233 PEAK																																																	
Fundamental																																																												
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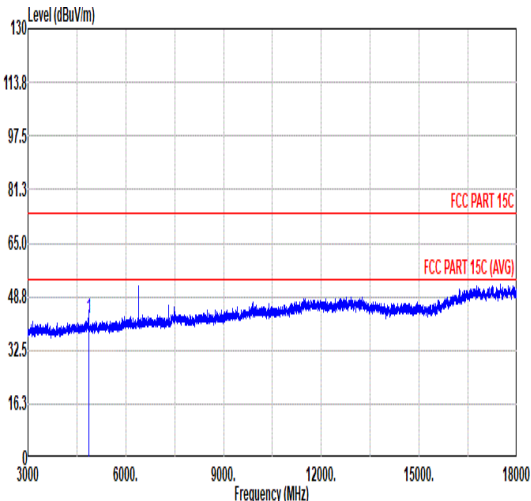
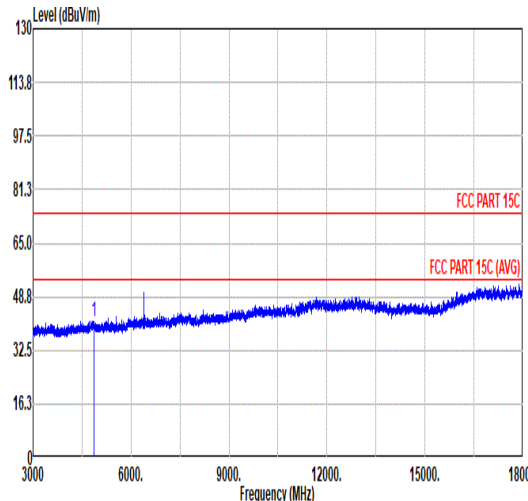


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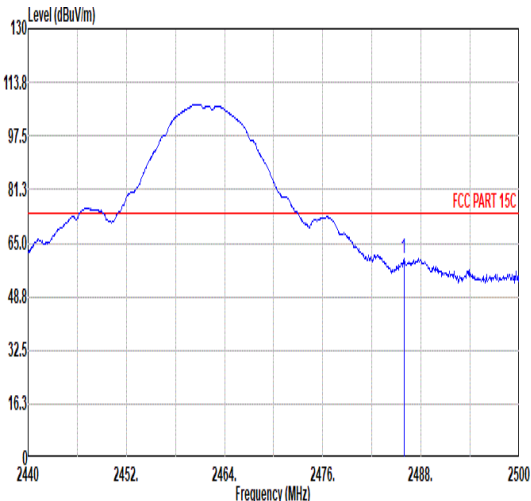
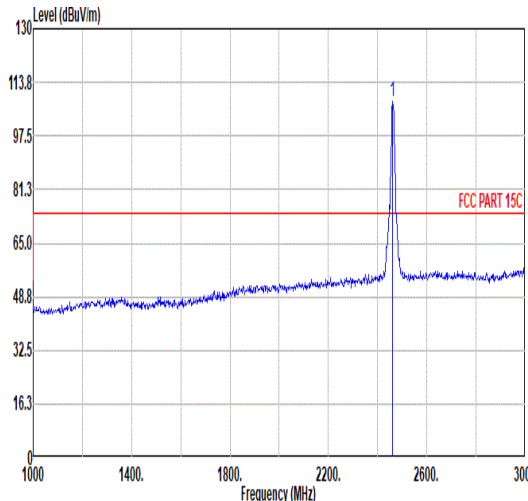
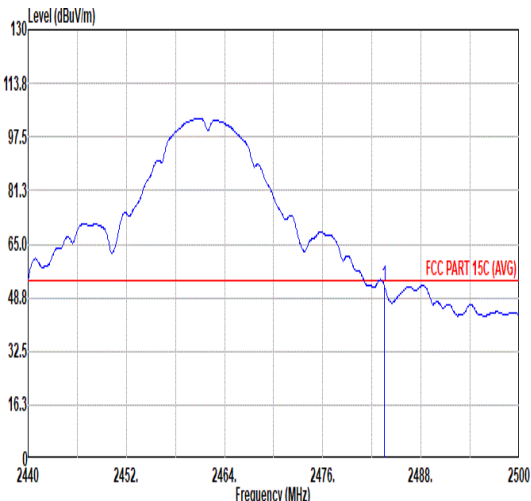
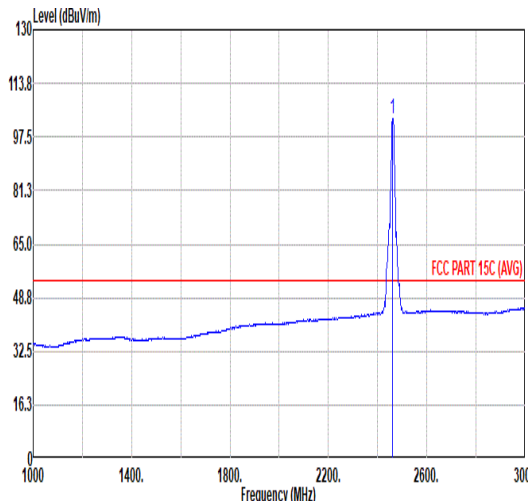


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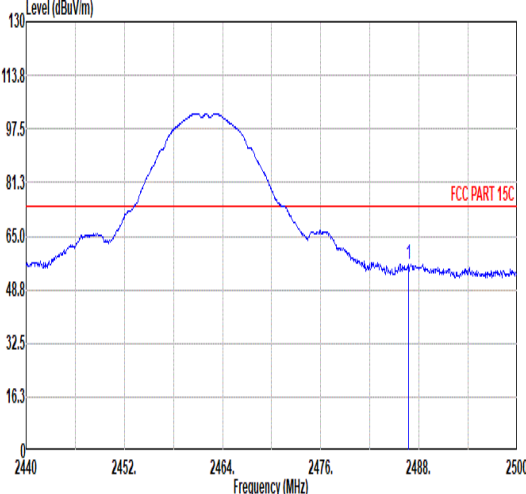
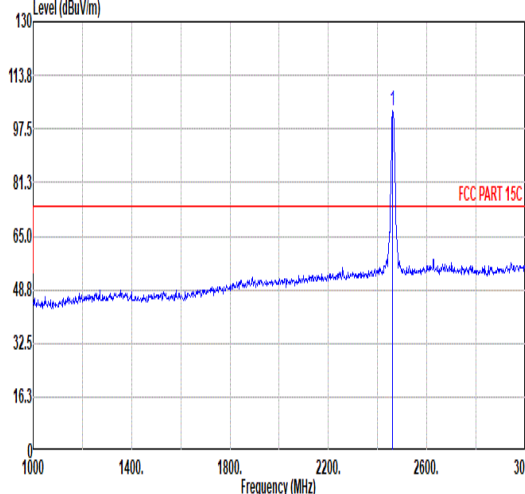
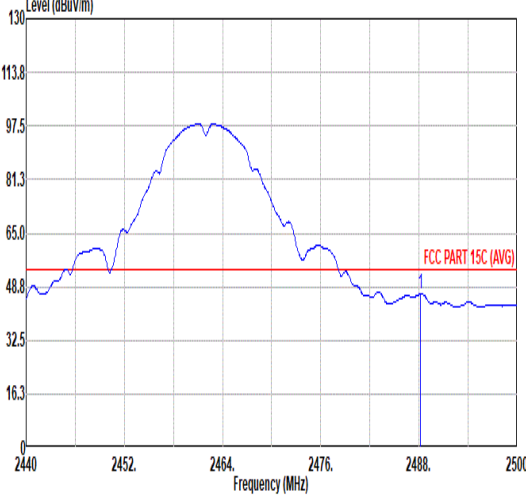
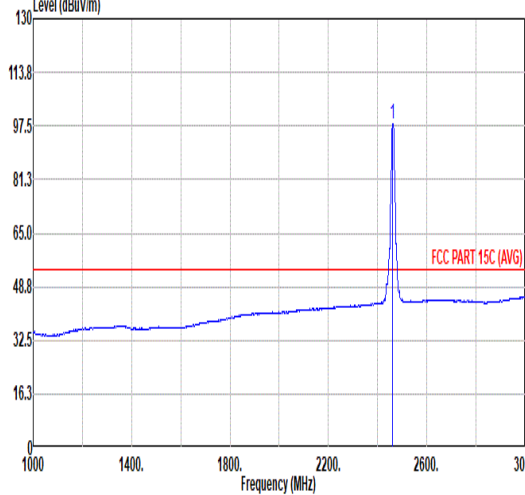


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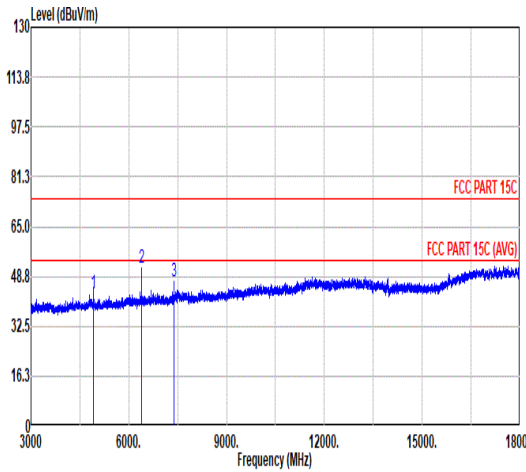
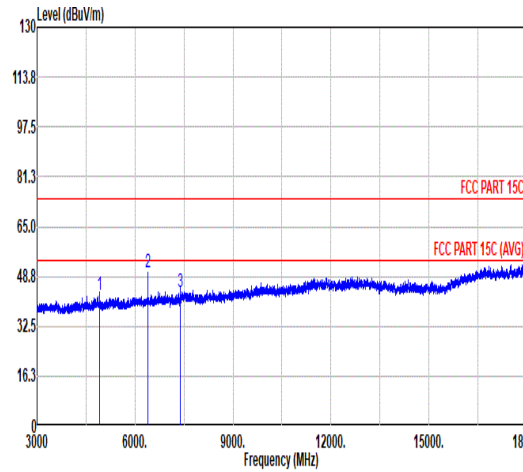


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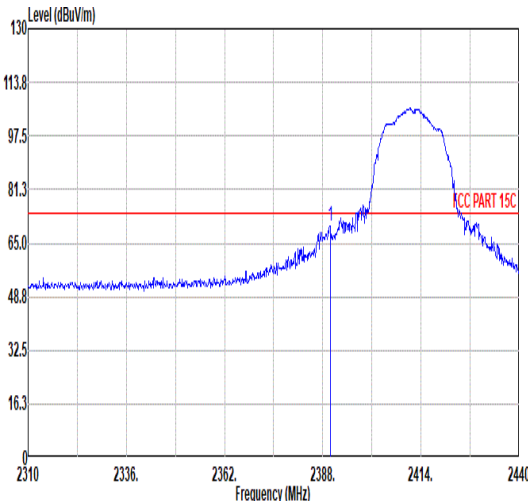
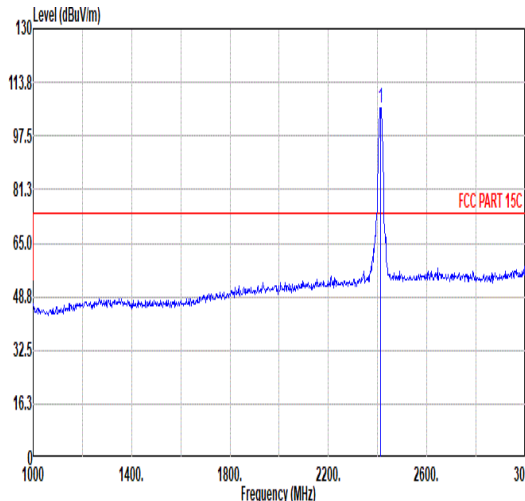
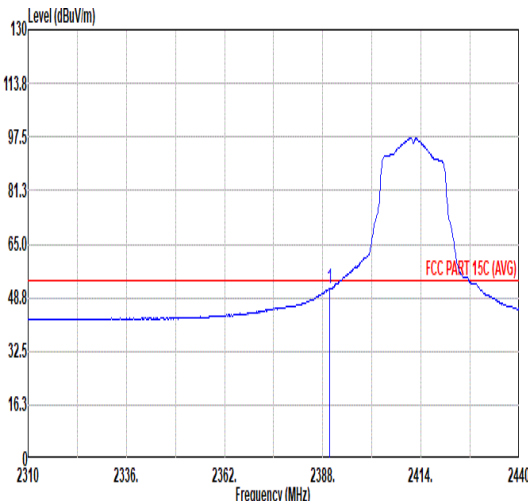
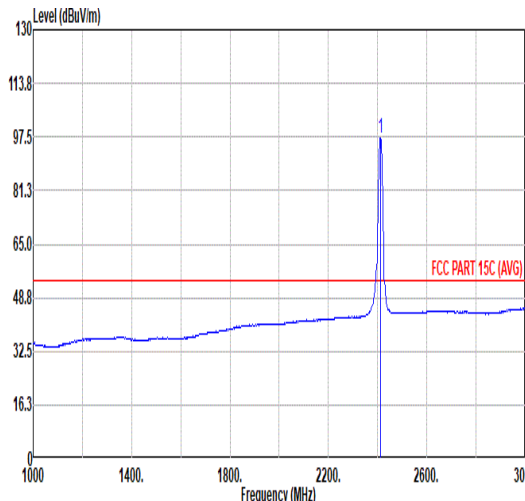


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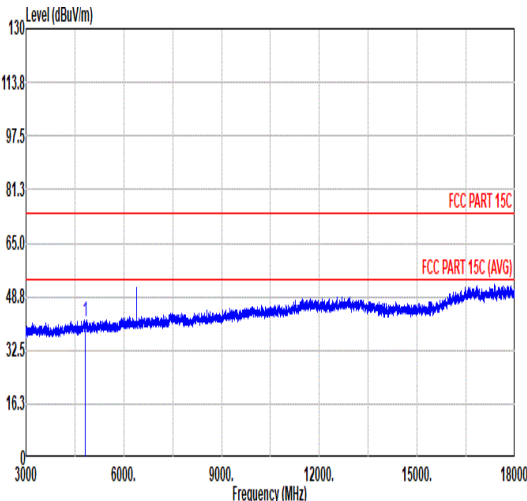
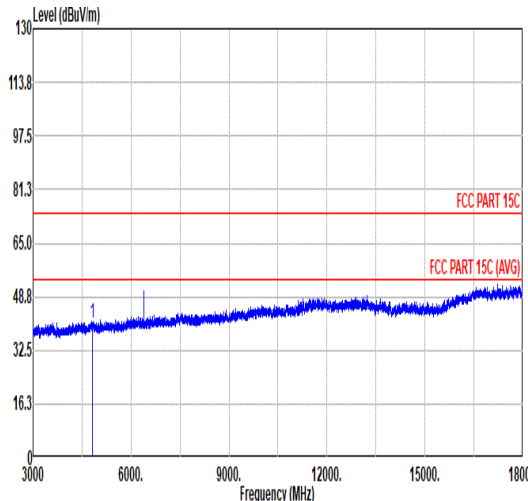


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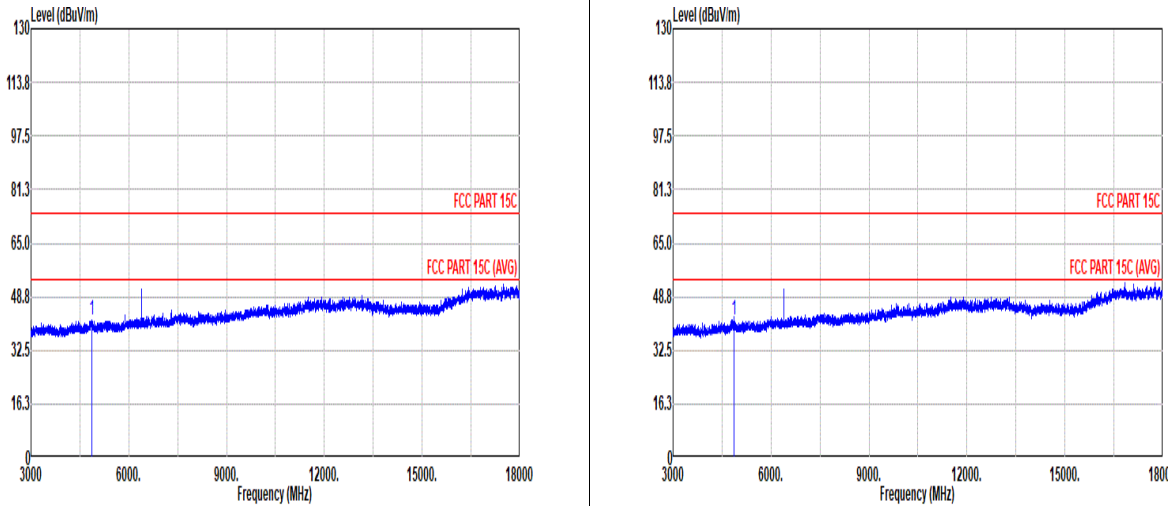


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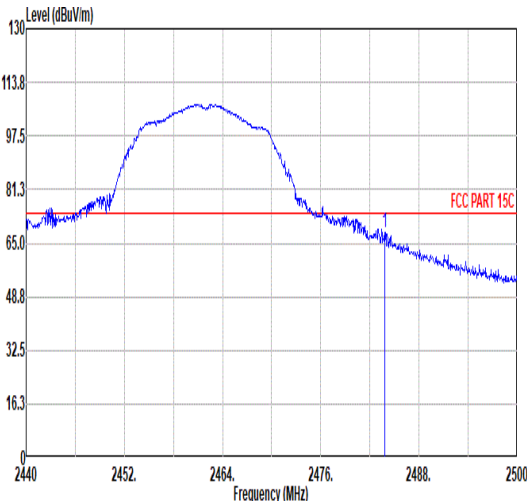
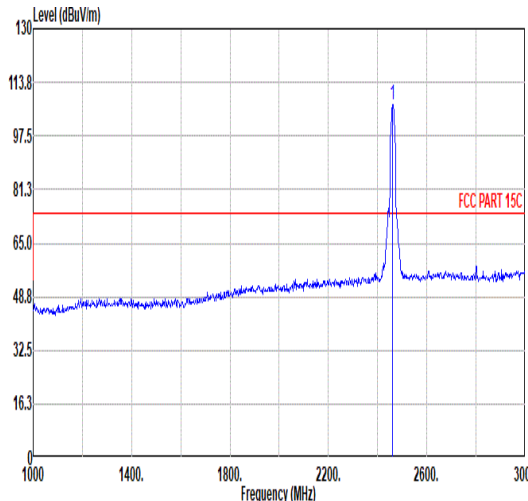
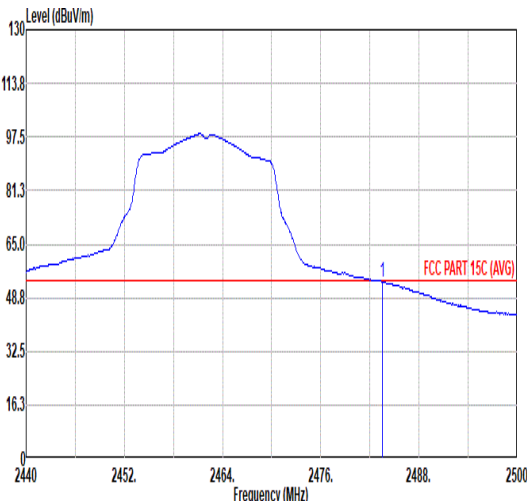
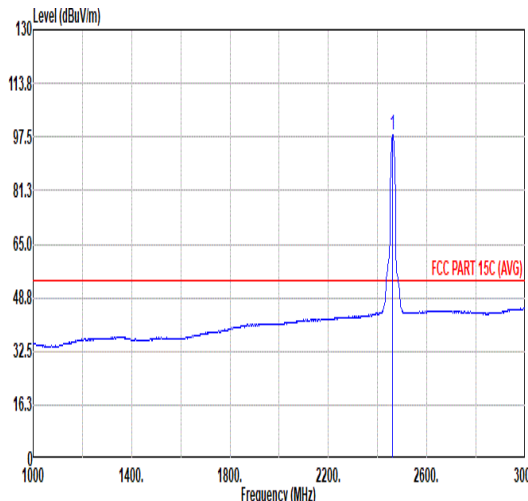


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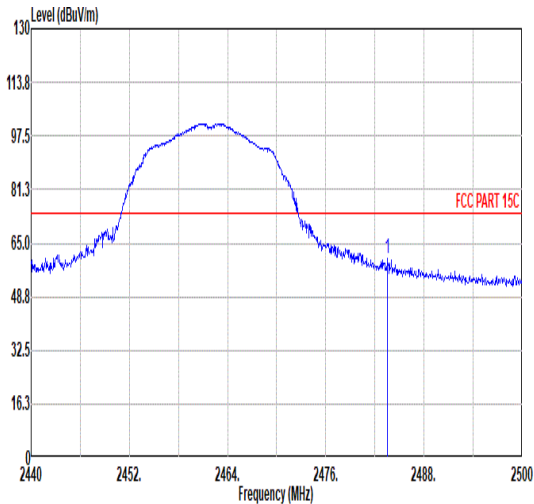
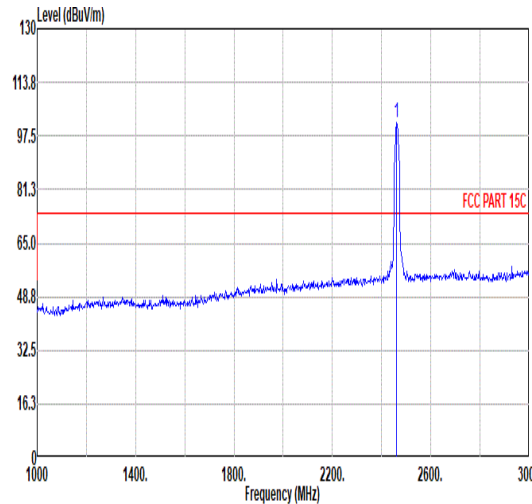
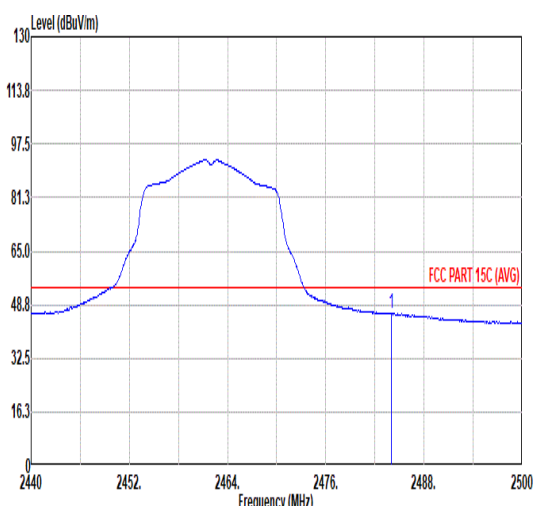
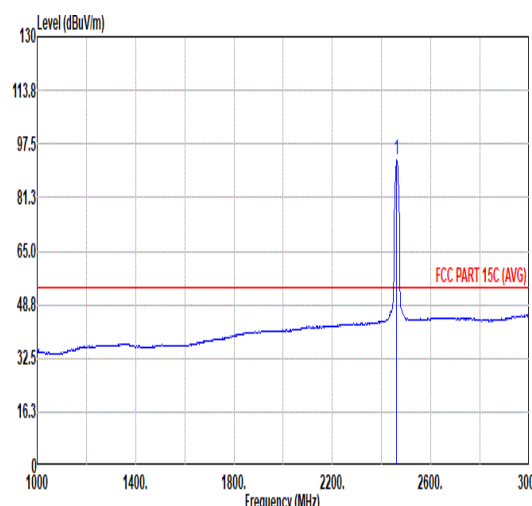


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<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4874.00</td><td>41.62</td><td>74.00</td><td>-32.38</td><td>61.02</td><td>34.15</td><td>11.68</td><td>65.23</td><td>0.00</td><td>--</td><td>PEAK</td></tr></table>												Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	4874.00	41.62	74.00	-32.38	61.02	34.15	11.68	65.23	0.00	--	PEAK	
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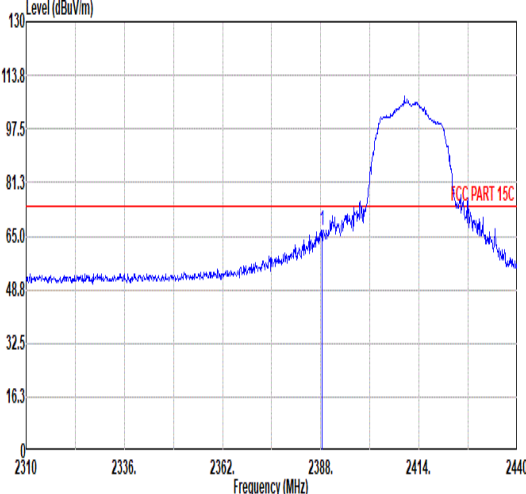
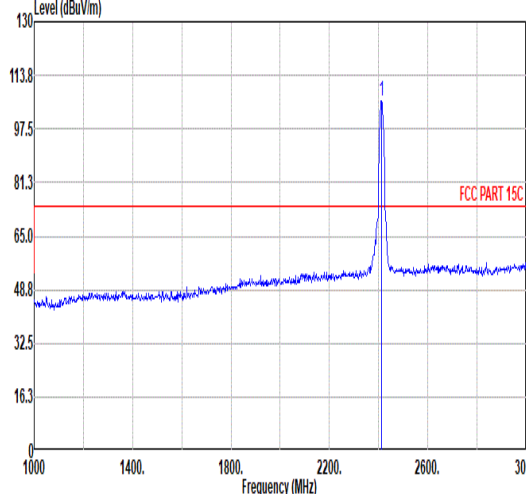
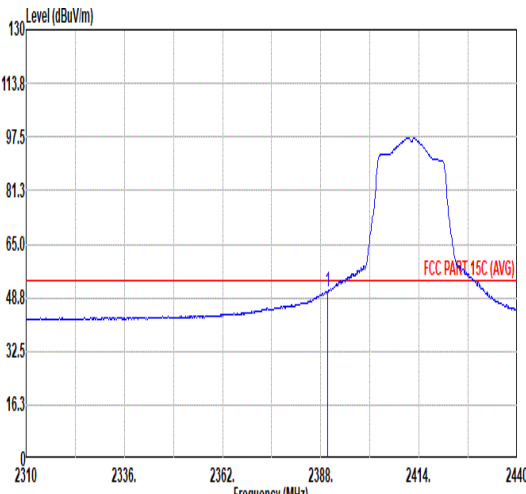
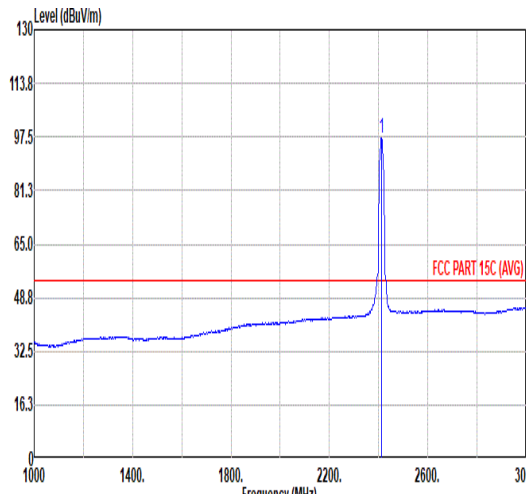


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1	2483.56	60.44	74.00	-13.56	44.49	32.37	8.23	30.65	6.00	102	140	PEAK																																											
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1	2462.00	101.59	-----	-----	85.74	32.32	8.19	30.66	6.00	102	140	PEAK																																											
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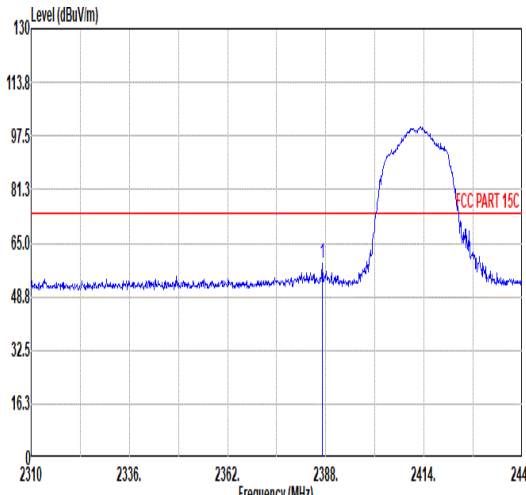
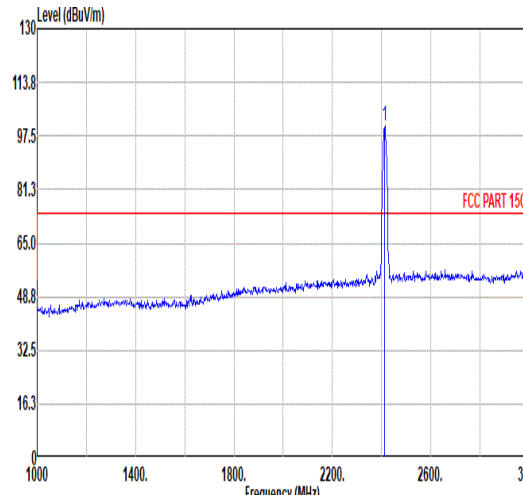
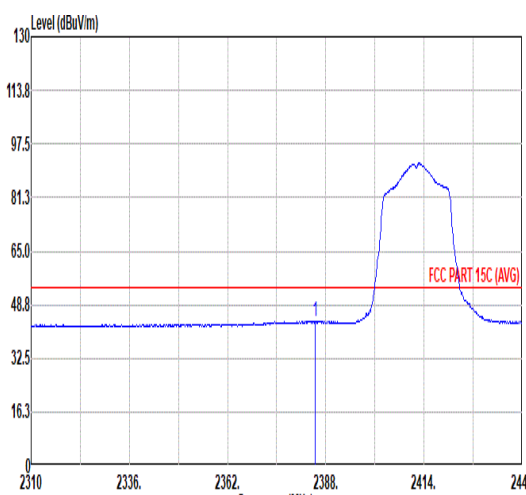
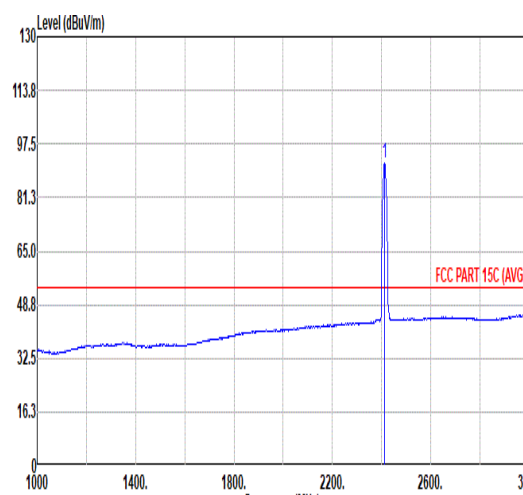


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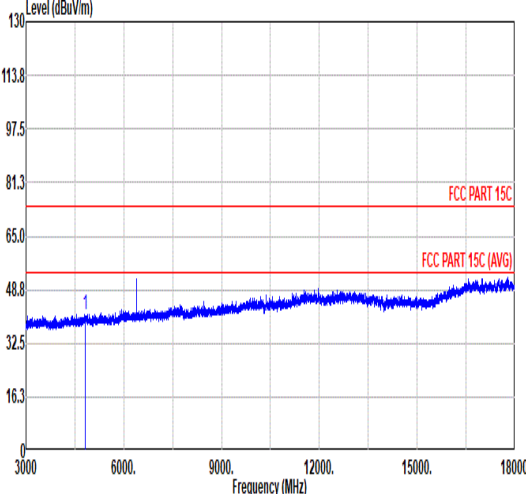
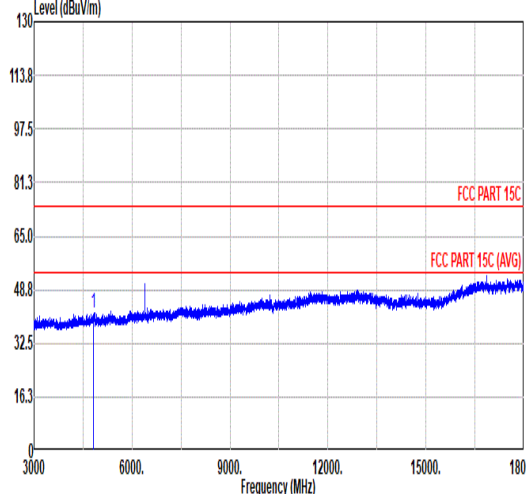


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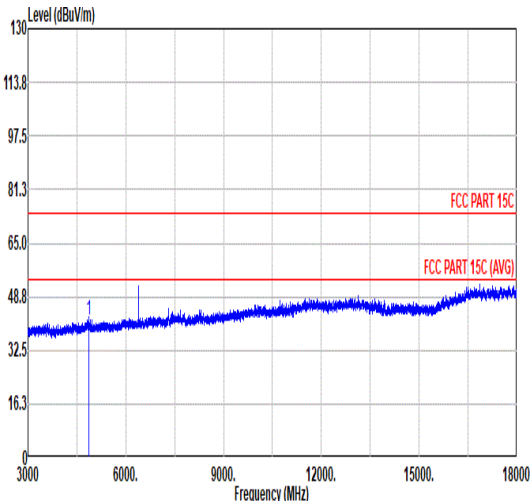
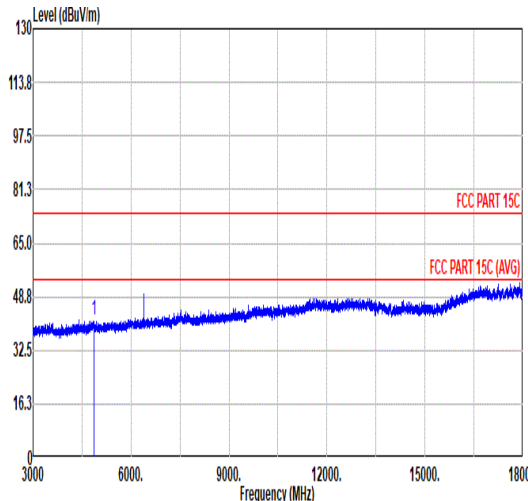


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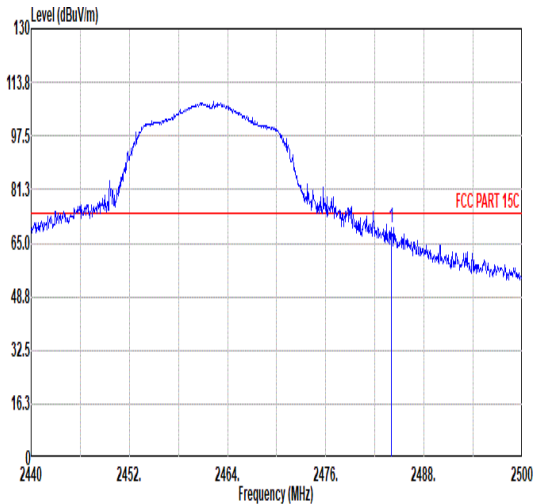
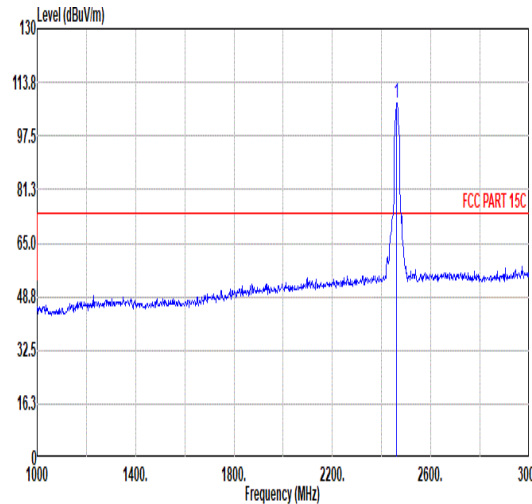
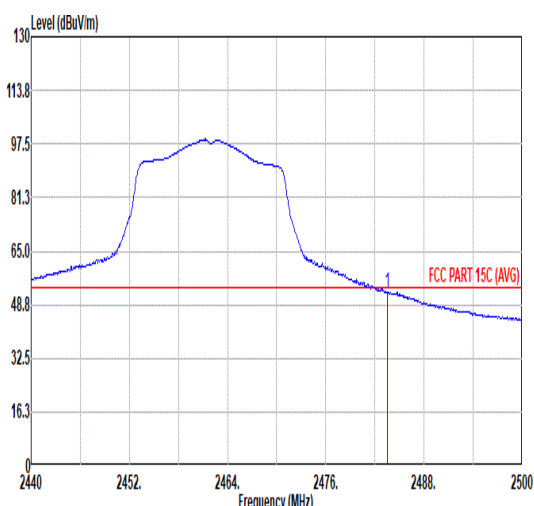
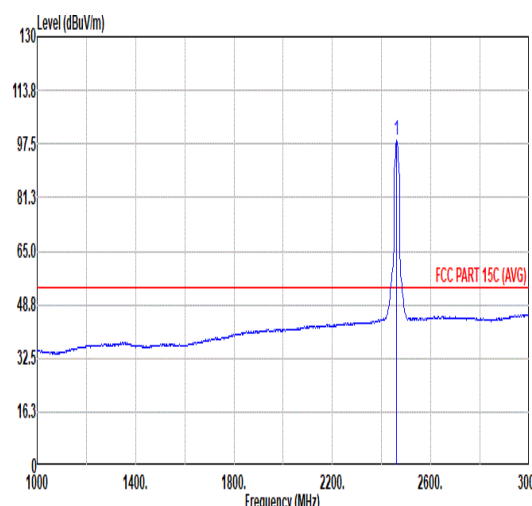


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