

TEST REPORT

Application No.: KSCR2501000089AT
FCC ID: 2BHGF-0235C9NB
IC: 32743-0235C9NB
Applicant: KeyLife International Technology Limited
Address of Applicant: Workshop 7, 6th Floor Core 45, No. 43 Tsun Yip Street, Kowloon, HONG KONG
Manufacturer: KeyLife International Technology Limited
Address of Manufacturer: Workshop 7, 6th Floor Core 45, No. 43 Tsun Yip Street, Kowloon, HONG KONG
Equipment Under Test (EUT):
EUT Name: HomeBase
Model No.: H310,H310-B,H310-xxxxxxx-yyyyyyy-zzz (where x,y,z may be blank, one letter or more combination letters from '0-9, A-Z and a-z'; '-' is option)
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
For IC Model No.: H310,H310-B
Standard(s) : 47 CFR Part 15, Subpart C 15.247
RSS-247 Issue 3, August 2023
RSS-Gen Issue 5 Amendment 2 (February 2021)
Date of Receipt: 2025-01-17
Date of Test: 2025-01-20 to 2025-03-11
Date of Issue: 2025-03-12

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Revision Record			
Version	Description	Date	Remark
00	Original	2025-03-12	/

Authorized for issue by:				
Tested By		Maker Qi		
		Maker_Qi/Project Engineer		
Approved By		Terry Hou		
		Terry Hou /Reviewer		

2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	RSS-Gen Clause 6.8	N/A	Pass

Radio Spectrum Matter Part				
Item	FCC Requirement	IC Requirement	Method	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207	RSS-Gen Clause 8.8	ANSI C63.10 (2013) Section 6.2	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247a(2)	RSS-247 Clause 5.2(a)	ANSI C63.10 (2013) Section 11.8.1	Pass
Conducted Average Output Power	47 CFR Part 15, Subpart C 15.247(b)(3)	RSS-247 Clause 5.4(d)	ANSI C63.10 (2013) Section 11.9.2	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247(e)	RSS-247 Clause 5.2(b)	ANSI C63.10 (2013) Section 11.10.3	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.13.3.2	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.11	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5,6.6	Pass
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass

Model No.: H310,H310-B,H310-xxxxxxx-yyyyyyy-zzz (where x,y,z may be blank, one letter or more combination letters from '0-9, A-Z and a-z'; '-' is option

Only the model H310 was tested.

There are series models mentioned in this report, and they are identical in electrical and electronic characters. Only the model H310 was tested since their differences were the model number and color.

3 Contents

	Page
1 COVER PAGE	1
2 Test Summary	3
3 Contents.....	4
4 General Information.....	5
4.1 Details of E.U.T.	5
4.2 Power level setting using in test.....	5
4.3 Description of Support Units	6
4.4 Measurement Uncertainty	7
4.5 Test Location.....	8
4.6 Test Facility	8
4.7 Deviation from Standards.....	8
4.8 Abnormalities from Standard Conditions.....	8
5 Equipment List	9
6 Radio Spectrum Technical Requirement.....	10
6.1 Antenna Requirement	10
7 Radio Spectrum Matter Test Results	11
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz).....	11
7.2 Radiated Emissions which fall in the restricted bands	15
7.3 Radiated Spurious Emissions Below 1GHz	98
7.4 Radiated Spurious Emissions Above 1GHz.....	104
7.5 Conducted Average Output Power	142
7.6 Minimum 6dB Bandwidth	144
7.7 Power Spectrum Density.....	145
7.8 Conducted Band Edges Measurement	146
7.9 Conducted Spurious Emissions	147
8 Test Setup Photo	148
9 EUT Constructional Details (EUT Photos).....	148
10 Appendix.....	149

4 General Information

4.1 Details of E.U.T.

Power supply:	AC/DC Adapter: Model: DCT36W120300US-A3 Input: 100~240V~,50-60Hz,1A max Output: 12V/3A
S/N:	210235C9NB3249000011
Firmware Version:	GSHAV5R1B01D001SP22
Operation Frequency:	802.11b/g/n(HT20)/ax(HE20):2412MHz to 2462MHz;802.11n(HT40)/ax(HE40):2422MHz to 2452MHz
Modulation Type(WLAN0):	802.11b: DSSS (CCK, DQPSK, DBPSK), 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK), 802.11ax: OFDMA (BPSK, BPSK_DCM, QPSK, QPSK_DCM, 16QAM, 16QAM_DCM,64QAM, 256QAM, 1024QAM)
Modulation Type(WLAN1):	802.11b: DSSS (CCK, DQPSK, DBPSK), 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK), 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Number of Channels:	802.11b/g/n(HT20)/ax(HE20):11;802.11n(HT40)/ax(HE40):7
Channel Spacing:	5MHz
Antenna Type:	Internal antenna
Antenna Gain:	WLAN0(AIC8800DL Module): 3.3dBi (Provided by the manufacturer) WLAN1(ATBM6062 Module): 2.5dBi (Provided by the manufacturer)
Antenna Number:	1

4.2 Power level setting using in test

WLAN0

Channel	802.11b	802.11g	802.11n(HT20)
	Ant 1	Ant 1	Ant 1
L	-14	-6	-6
M	-14	-6	-6
H	-14	-6	-6
Channel	802.11n(HT40)	802.11ax(HE20)	802.11ax(HT40)
	Ant 1	Ant 1	Ant 1
L	-6	-6	-6
M	-6	-6	-6
H	-6	-6	-6



WLAN1

Channel	802.11b	802.11g	802.11n(HT 20)
	Ant 1	Ant 1	Ant 1
L	11	12	11
M	11	12	11
H	11	12	11
Channel	802.11n(HT40)	802.11ax(HE 20)	802.11ax(H T40)
	Ant 1	Ant 1	Ant 1
L	7	12	10
M	7	12	10
H	7	12	10

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	K27	EB24537645

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%
Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.		

4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
3. Sample source: sent by customer.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

- **ISED**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

- **VCCI**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals						
1	EMI Test Receive	R&S	ESCI	KS301101	03/19/2024	03/18/2025
2	LISN	R&S	ENV216	KS301197	01/15/2025	01/14/2026
3	LISN	Schwarzbeck	NNLK 8129	KS301091	01/15/2025	01/14/2026
4	Pulse Limiter	R&S	ESH3-Z2	KUS1902E001	12/05/2024	12/04/2025
5	CE test Cable	Thermax	/	CZ301102	01/14/2025	01/13/2026
6	Test Software	ESE	E3_V 6.111221a	/	N.C.R	N.C.R
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	08/01/2024	07/31/2025
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	08/01/2024	07/31/2025
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/15/2025	01/14/2026
4	Signal Generator	R&S	SMBV100B	KSEM032	03/19/2024	03/18/2025
5	Signal Generator	R&S	SMW200A	KSEM020-1	08/02/2024	08/01/2025
6	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/01/2024	07/31/2025
7	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/01/2024	07/31/2025
8	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	03/19/2024	03/18/2025
9	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/13/2024	08/12/2025
10	Switcher	TST	FY562	KUS2001M001-4	01/15/2025	01/14/2026
11	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
12	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
13	Conducted Test Cable	Thermax	RF01-RF04	CZ301111- CZ301120	01/14/2025	01/13/2026
14	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	08/26/2024	08/25/2025
15	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	03/19/2024	03/18/2025
16	Software	BST	TST-PASS	/	NCR	NCR
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/06/2024	08/05/2025
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	03/19/2024	03/18/2025
3	Signal Generator	Agilent	E8257C	KS301066	08/06/2024	08/05/2025
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	03/18/2023	03/17/2025
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2023	06/28/2025
6	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E006	03/19/2024	03/18/2025
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	03/23/2024	03/22/2025
8	Horn-antenna(1-18GHz)	ETS- LINDGREN	3117	KS301186	04/07/2023	04/06/2025
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	01/07/2024	01/06/2026
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/15/2025	01/14/2026
11	Amplifier(18~40GHz)	PANSHAN TECHNOLOGY	LNA180400G40	KSEM038	08/12/2024	08/11/2025
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	08/23/2024	08/22/2025
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	03/19/2024	03/18/2025
14	Software	Faratronic	EZ_EMC-v 3A1	/	NCR	NCR
15	Software	ESE	E3_V 6.111221a	/	NCR	NCR

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

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, 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is Internal Antenna and no consideration of replacement. The best case gain of the antenna is WLAN0 2.5dBi and WLAN1 3.3dBi.

Antenna location: Refer to internal photo.

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	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.		
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C

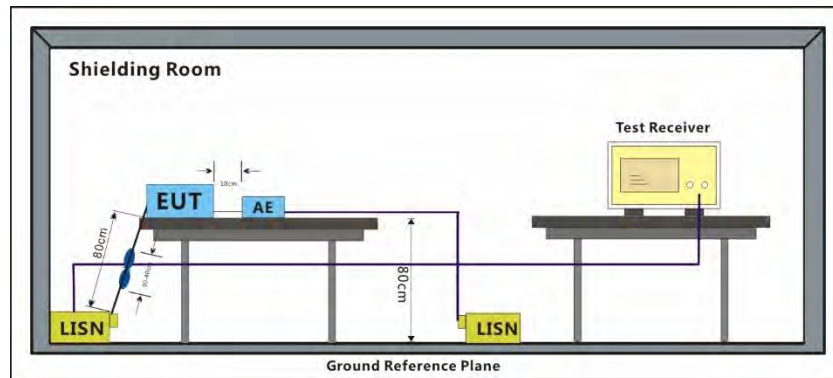
Humidity: 50.5 % RH

Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



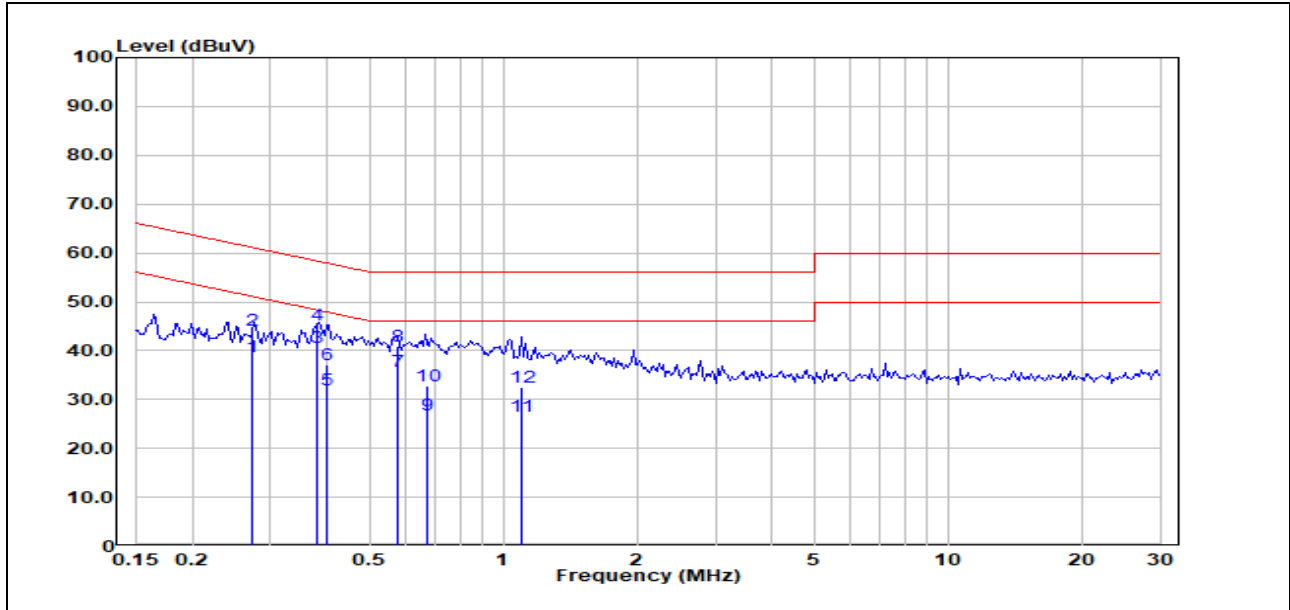
7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 50\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{LISN Factor}$

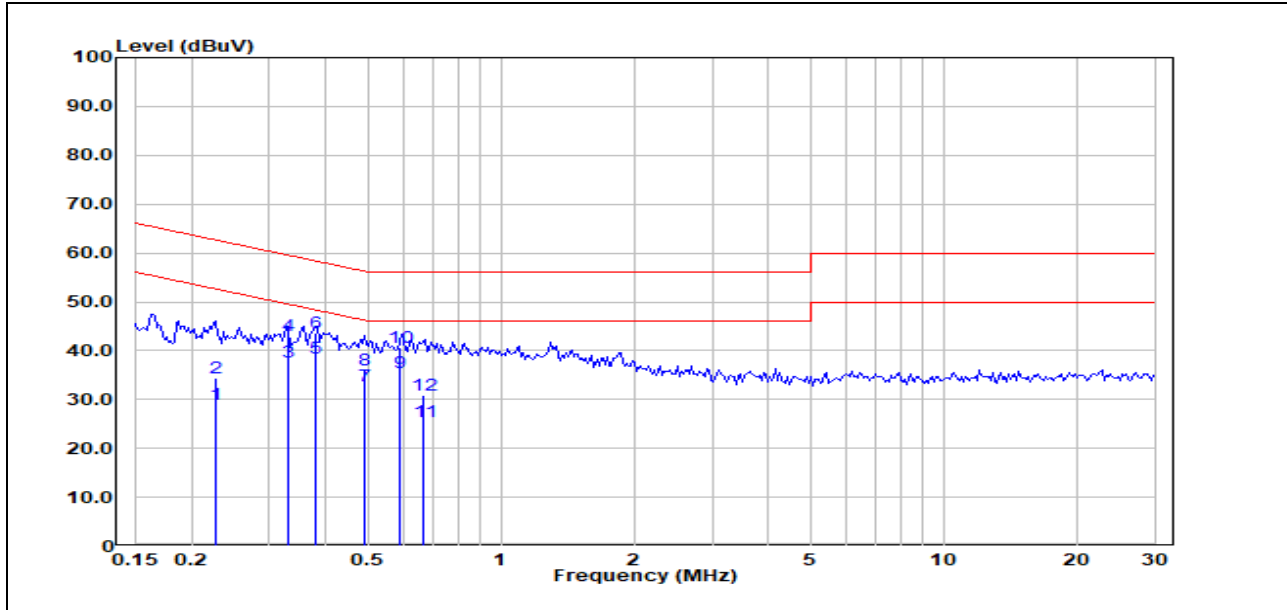
Test Mode: 00; Line: Live line

Test Data :



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2719	18.76	20.07	38.83	51.06	-12.23	Average
2	0.2719	24.01	20.07	44.08	61.06	-16.98	QP
3	0.3827	20.48	20.07	40.55	48.22	-7.67	Average
4	0.3827	25.23	20.07	45.30	58.22	-12.92	QP
5	0.4005	12.03	20.06	32.09	47.84	-15.75	Average
6	0.4005	17.14	20.06	37.20	57.84	-20.64	QP
7	0.5767	15.89	19.92	35.81	46.00	-10.19	Average
8	0.5767	21.08	19.92	41.00	56.00	-15.00	QP
9	0.6732	7.08	19.79	26.87	46.00	-19.13	Average
10	0.6732	12.87	19.79	32.66	56.00	-23.34	QP
11	1.1000	6.56	19.88	26.44	46.00	-19.56	Average
12	1.1000	12.57	19.88	32.45	56.00	-23.55	QP

Test Mode: 00; Line: Neutral Line

Test Data :


No.	Frequency (MHz)	Reading (dBUV)	Correct Factor(dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Remark
1	0.2266	8.96	20.10	29.06	52.57	-23.51	Average
2	0.2266	14.25	20.10	34.35	62.57	-28.22	QP
3	0.3302	17.71	20.09	37.80	49.45	-11.65	Average
4	0.3302	23.02	20.09	43.11	59.45	-16.34	QP
5	0.3800	18.46	20.11	38.57	48.28	-9.71	Average
6	0.3800	23.41	20.11	43.52	58.28	-14.76	QP
7	0.4913	12.72	19.94	32.66	46.15	-13.49	Average
8	0.4913	16.15	19.94	36.09	56.15	-20.06	QP
9	0.5916	15.59	19.88	35.47	46.00	-10.53	Average
10	0.5916	20.74	19.88	40.62	56.00	-15.38	QP
11	0.6691	5.75	19.84	25.59	46.00	-20.41	Average
12	0.6691	11.00	19.84	30.84	56.00	-25.16	QP

7.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.0 °C

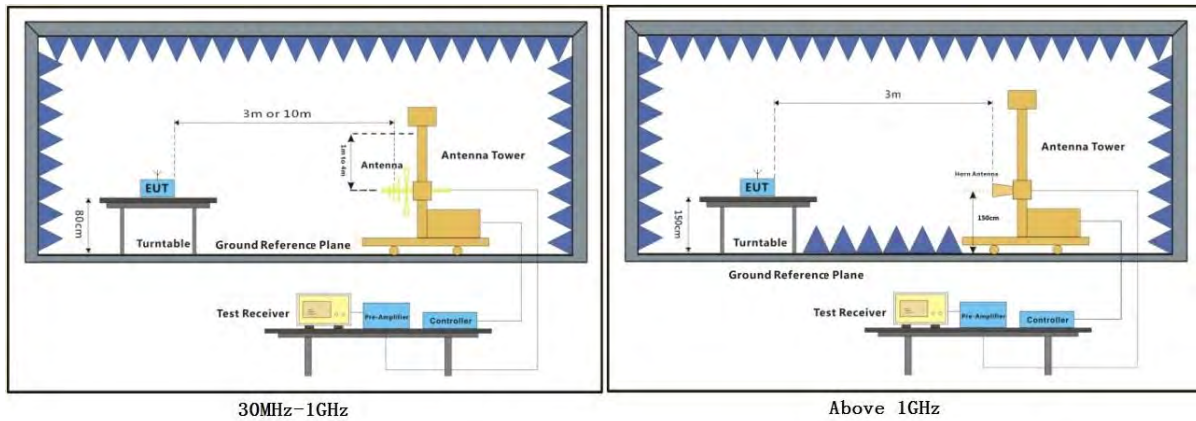
Humidity: 51.7 % RH

Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$

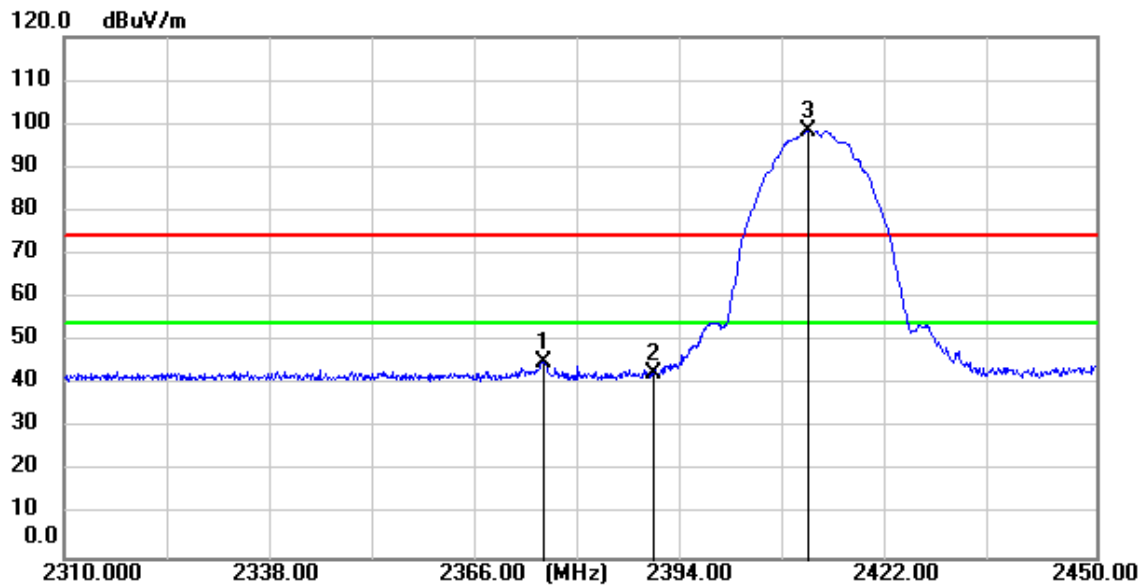
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

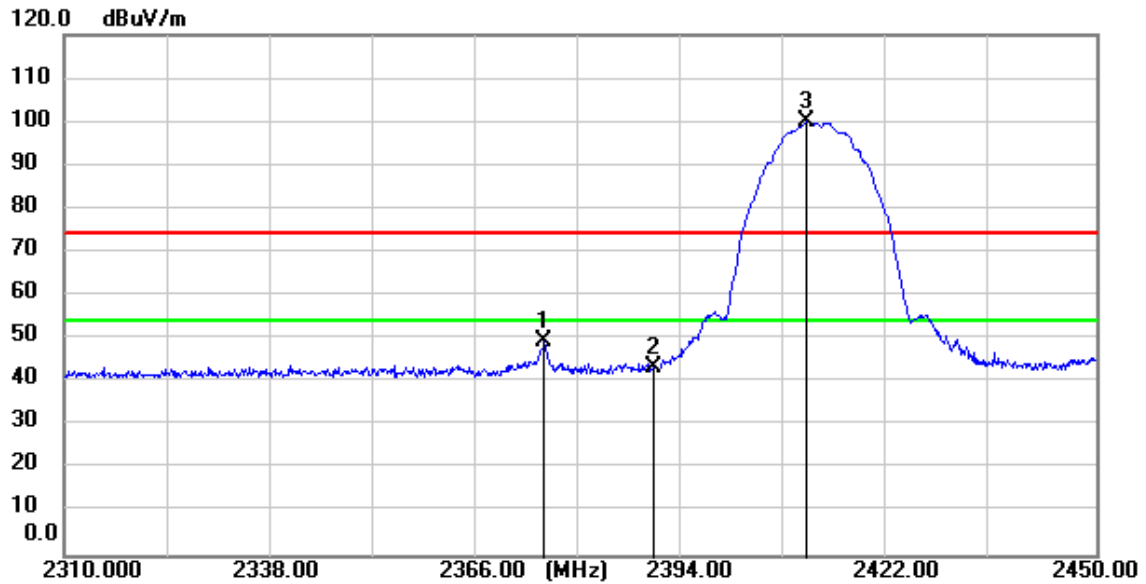
WLAN 0

Test Mode: 00; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: Low



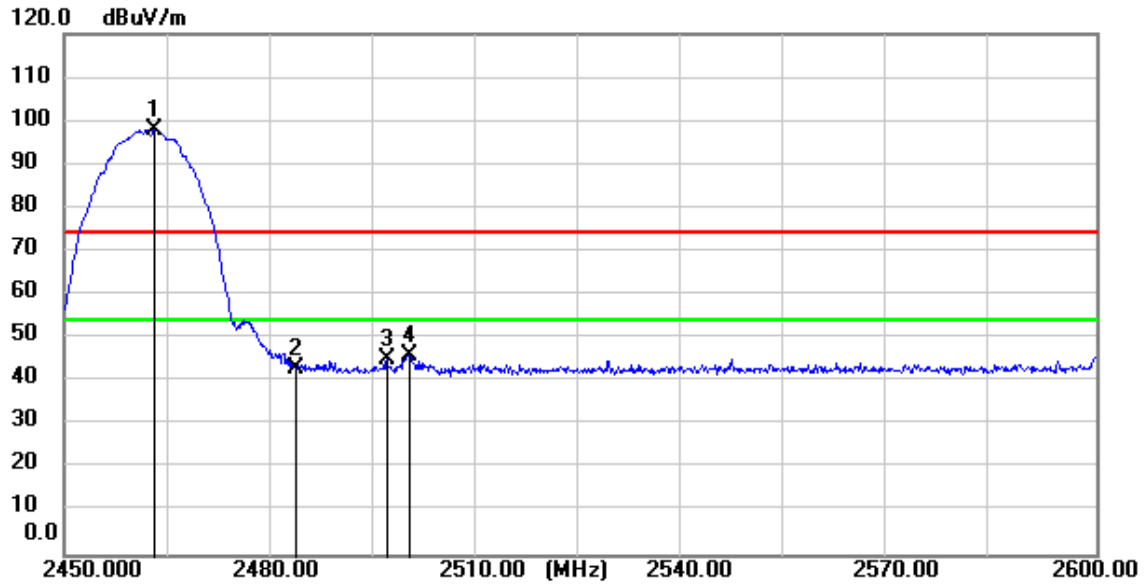
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2375.100	46.14	-0.86	45.28	74.00	-28.72	peak
2	2390.000	43.41	-0.79	42.62	74.00	-31.38	peak
3	2410.940	99.07	-0.69	98.38	74.00	24.38	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



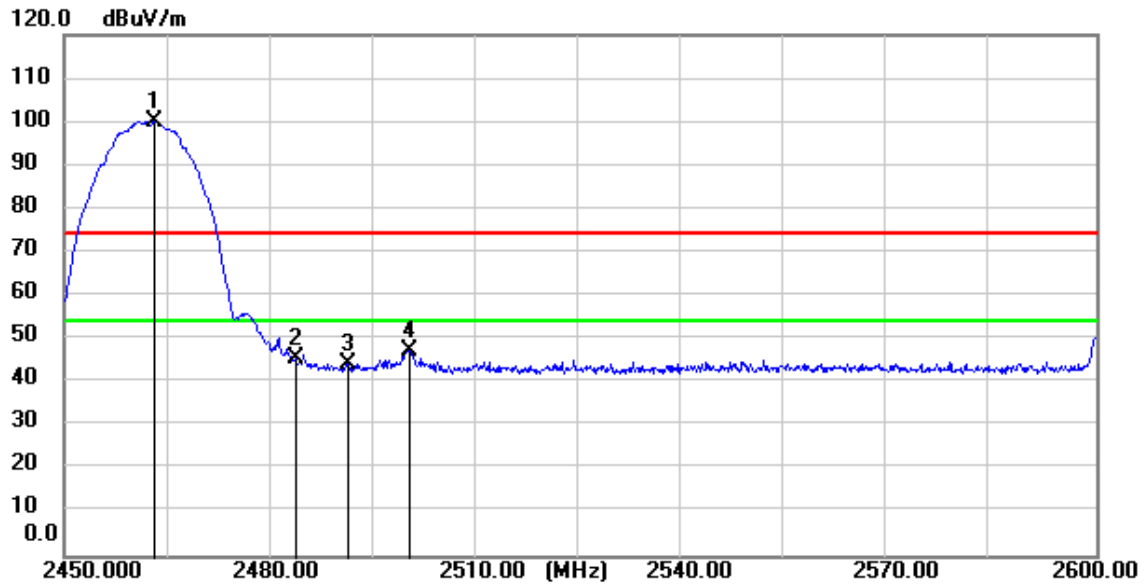
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2375.100	50.19	-0.86	49.33	74.00	-24.67	peak
2	2390.000	44.19	-0.79	43.40	74.00	-30.60	peak
3	2410.800	100.59	-0.69	99.90	74.00	25.90	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



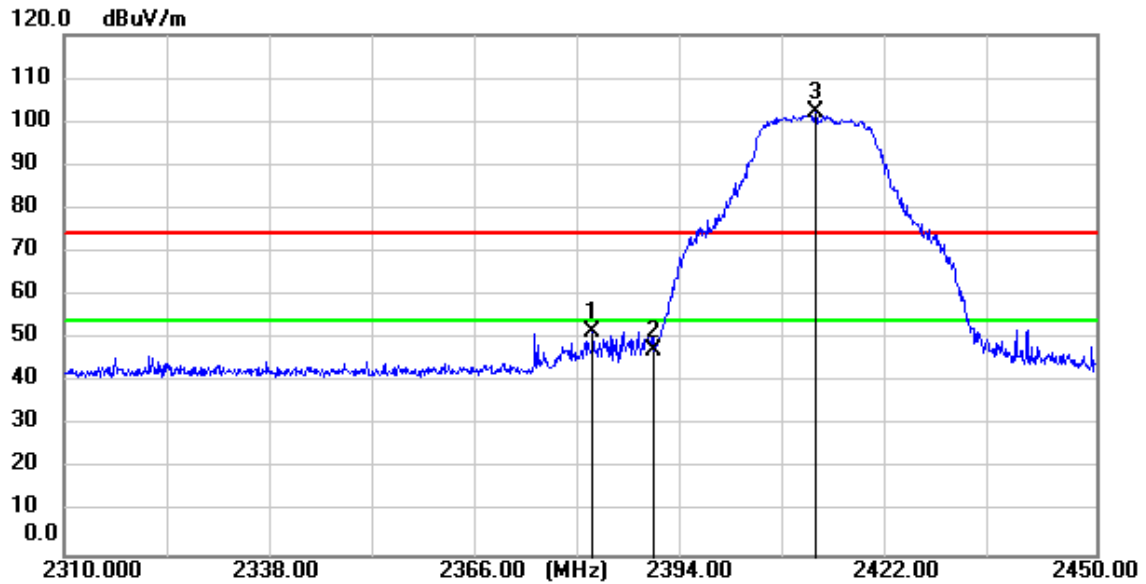
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.200	98.45	-0.43	98.02	74.00	24.02	peak
2	2483.500	43.20	-0.33	42.87	74.00	-31.13	peak
3	2496.950	45.26	-0.25	45.01	74.00	-28.99	peak
4	2500.000	46.32	-0.24	46.08	74.00	-27.92	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



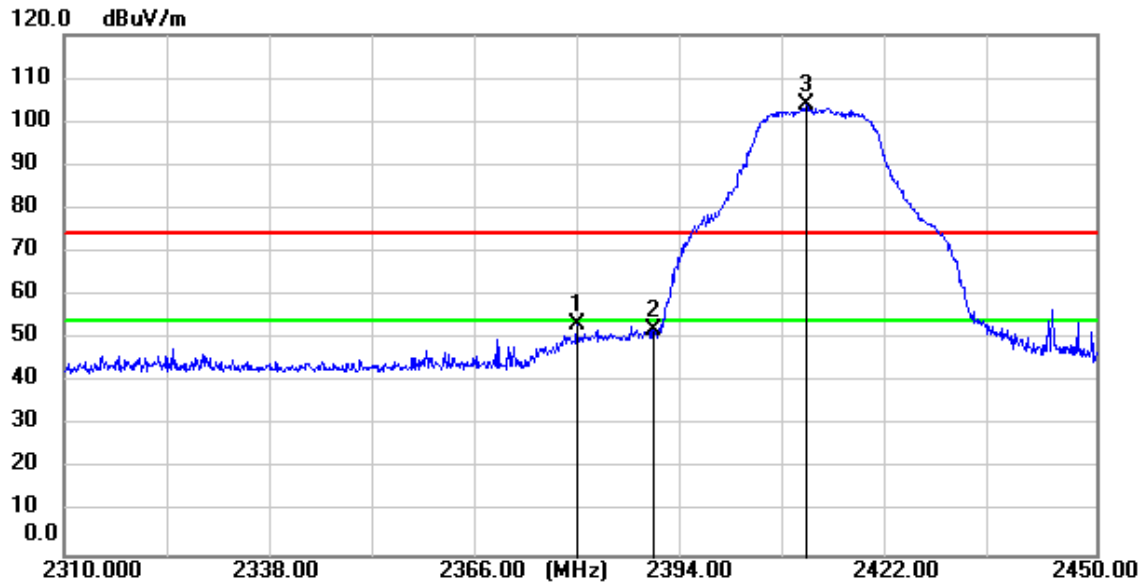
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.200	100.71	-0.43	100.28	74.00	26.28	peak
2	2483.500	45.87	-0.33	45.54	74.00	-28.46	peak
3	2491.250	44.78	-0.29	44.49	74.00	-29.51	peak
4	2500.000	47.75	-0.24	47.51	74.00	-26.49	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



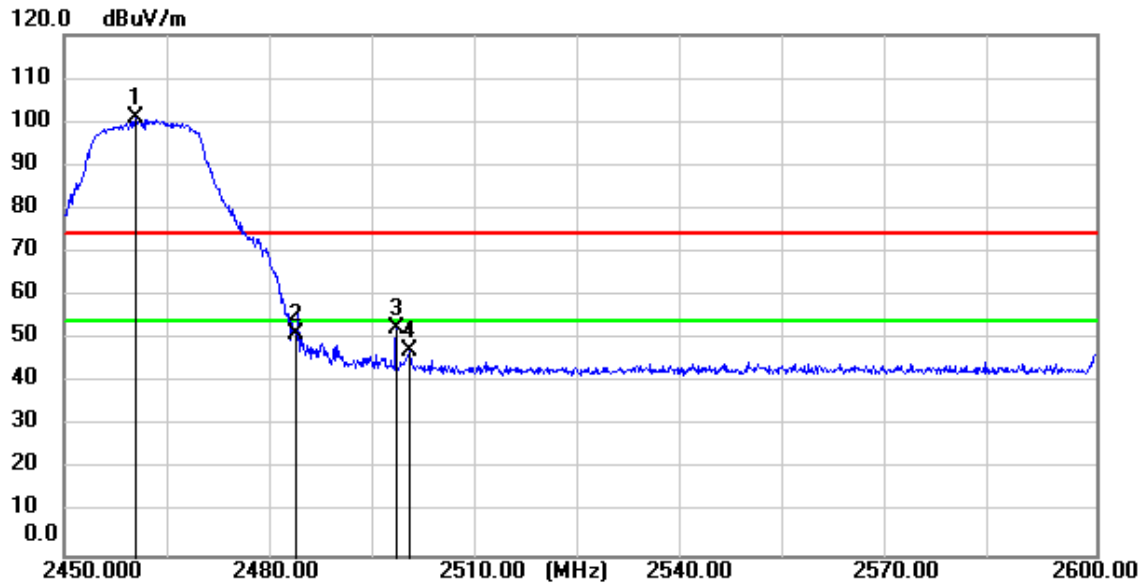
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2381.680	52.62	-0.83	51.79	74.00	-22.21	peak
2	2390.000	48.30	-0.79	47.51	74.00	-26.49	peak
3	2412.060	103.02	-0.68	102.34	74.00	28.34	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



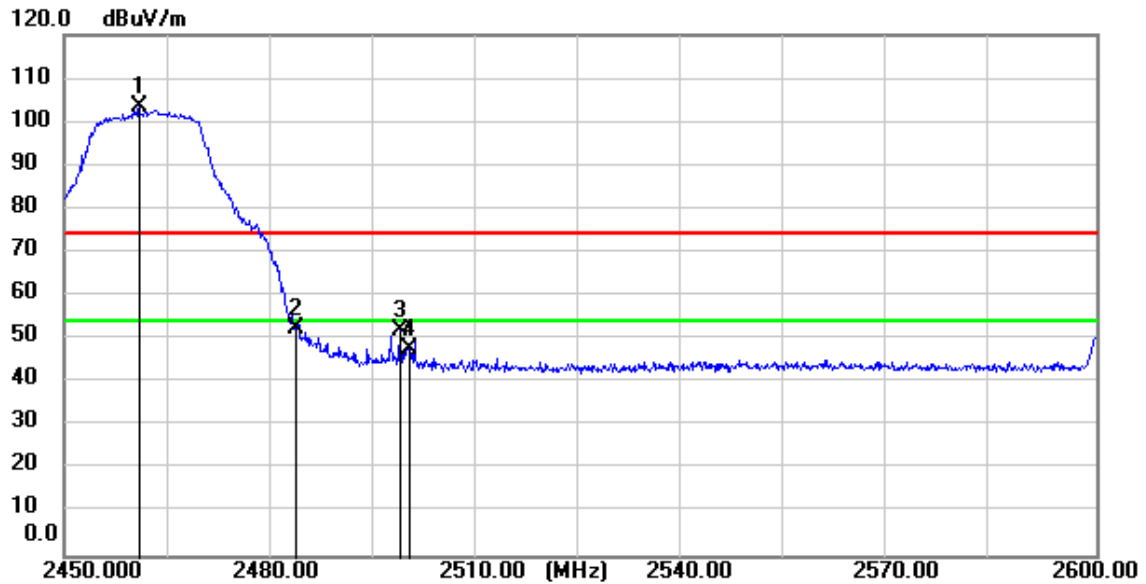
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2379.580	54.04	-0.84	53.20	74.00	-20.80	peak
2	2390.000	53.00	-0.79	52.21	74.00	-21.79	peak
3	2410.800	104.52	-0.69	103.83	74.00	29.83	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



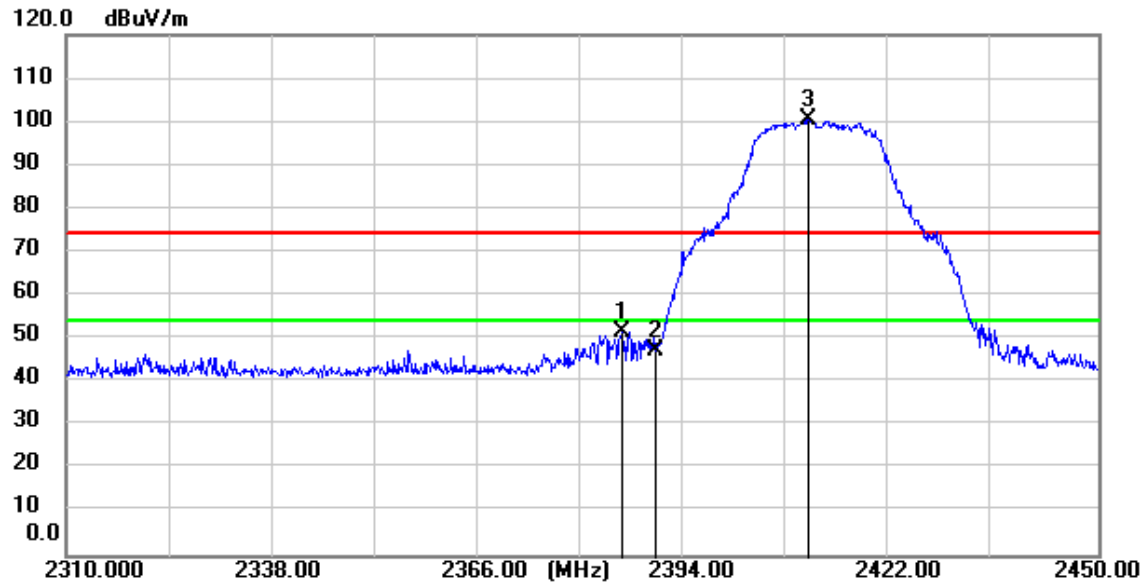
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.350	101.31	-0.44	100.87	74.00	26.87	peak
2	2483.500	51.65	-0.33	51.32	74.00	-22.68	peak
3	2498.300	52.81	-0.25	52.56	74.00	-21.44	peak
4	2500.000	47.54	-0.24	47.30	74.00	-26.70	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



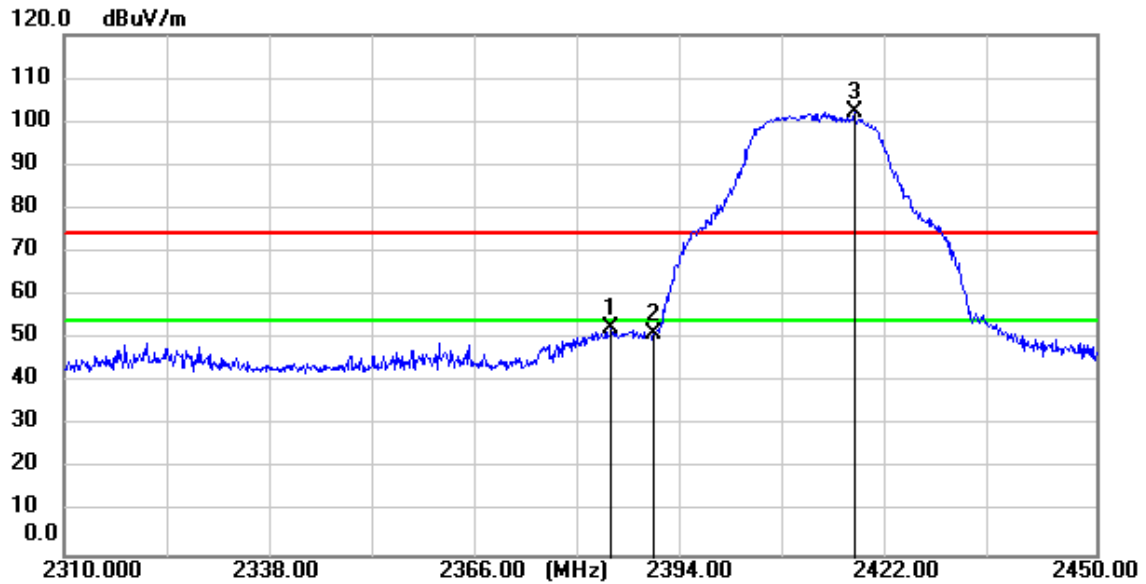
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.950	103.78	-0.44	103.34	74.00	29.34	peak
2	2483.500	52.94	-0.33	52.61	74.00	-21.39	peak
3	2498.750	52.27	-0.25	52.02	74.00	-21.98	peak
4	2500.000	47.84	-0.24	47.60	74.00	-26.40	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



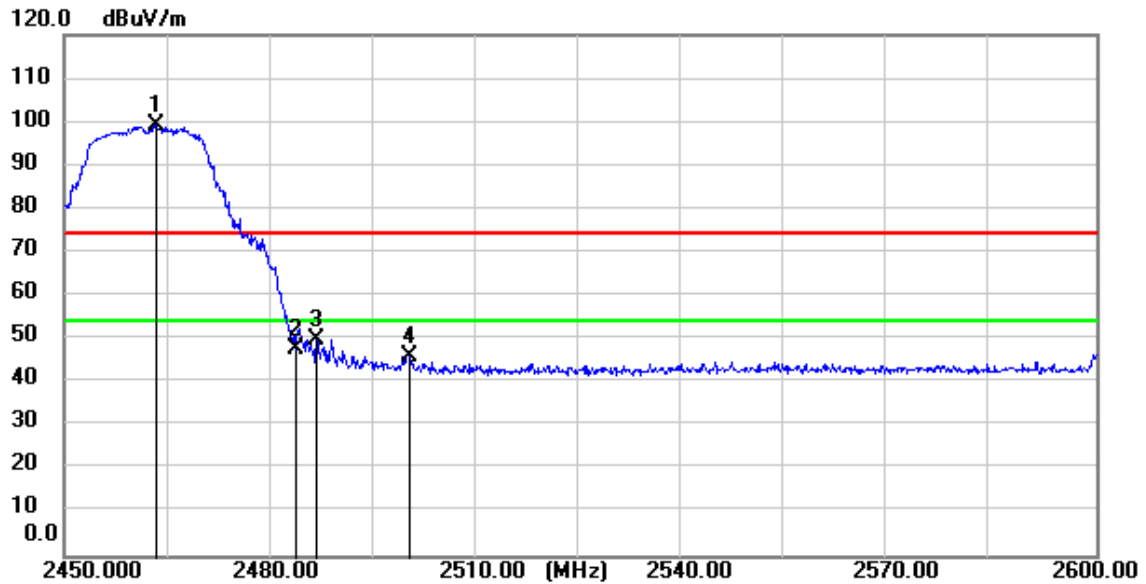
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.320	52.53	-0.81	51.72	74.00	-22.28	peak
2	2390.000	48.36	-0.79	47.57	74.00	-26.43	peak
3	2410.660	101.24	-0.69	100.55	74.00	26.55	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



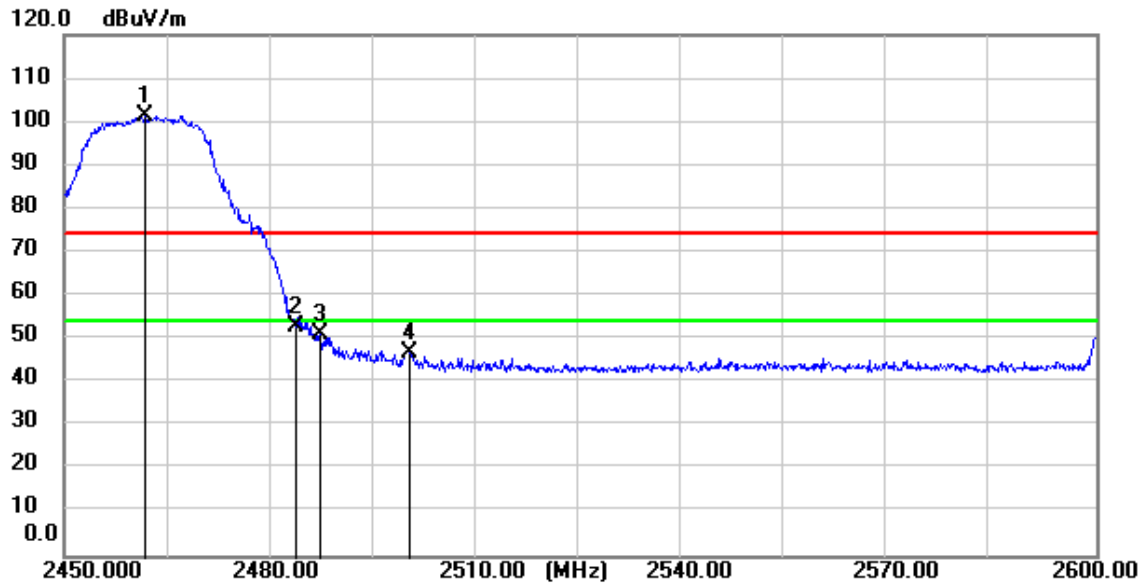
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.200	53.24	-0.82	52.42	74.00	-21.58	peak
2	2390.000	51.95	-0.79	51.16	74.00	-22.84	peak
3	2417.240	102.87	-0.65	102.22	74.00	28.22	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



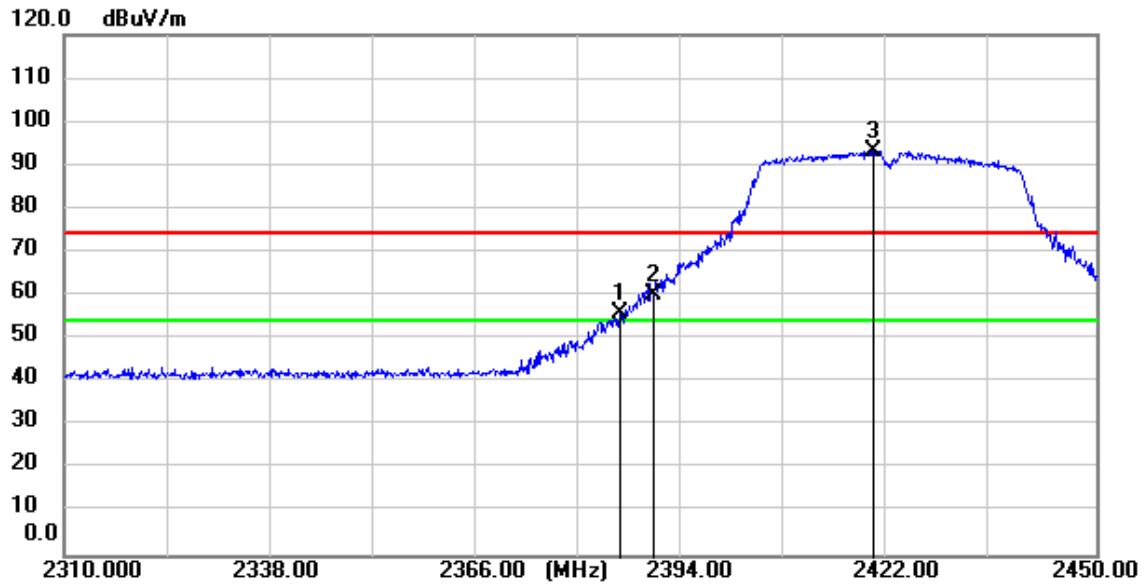
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.500	99.49	-0.43	99.06	74.00	25.06	peak
2	2483.500	48.21	-0.33	47.88	74.00	-26.12	peak
3	2486.750	50.39	-0.30	50.09	74.00	-23.91	peak
4	2500.000	46.19	-0.24	45.95	74.00	-28.05	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

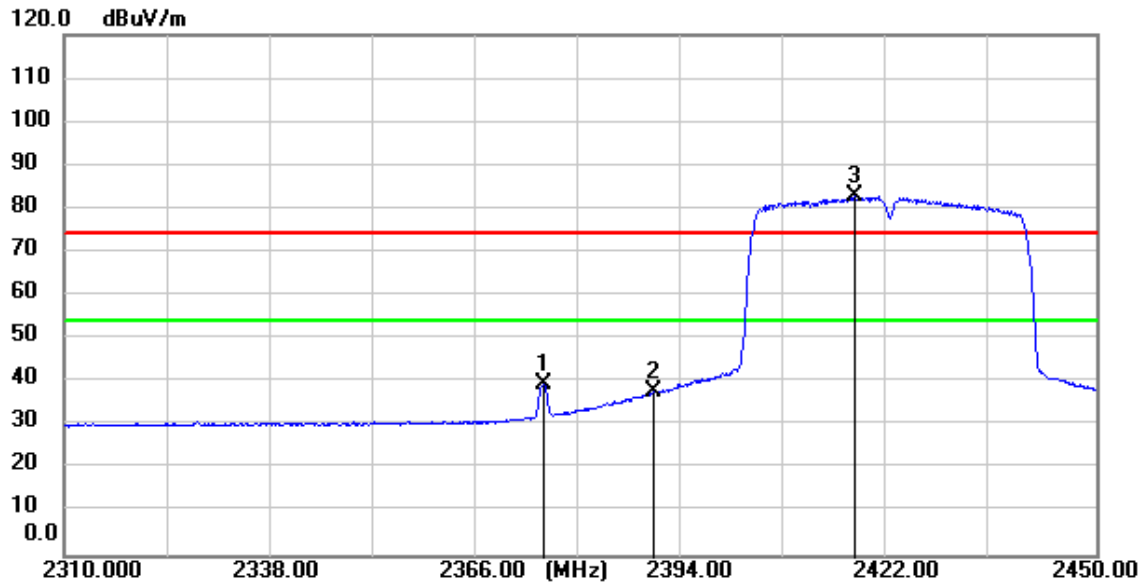


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.850	101.76	-0.43	101.33	74.00	27.33	peak
2	2483.500	53.28	-0.33	52.95	74.00	-21.05	peak
3	2487.350	51.64	-0.30	51.34	74.00	-22.66	peak
4	2500.000	47.14	-0.24	46.90	74.00	-27.10	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

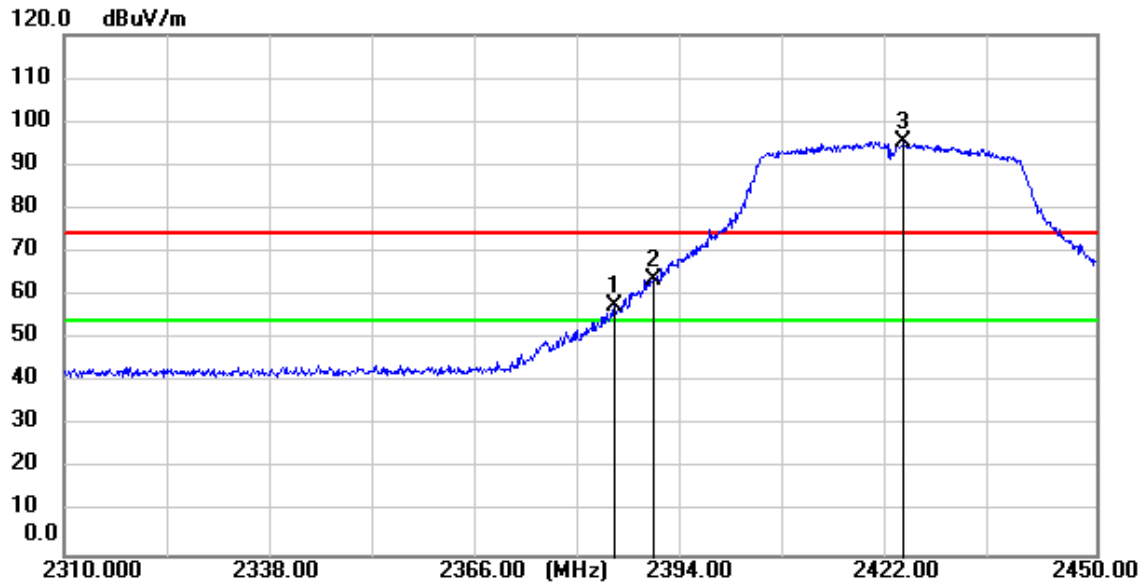


Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



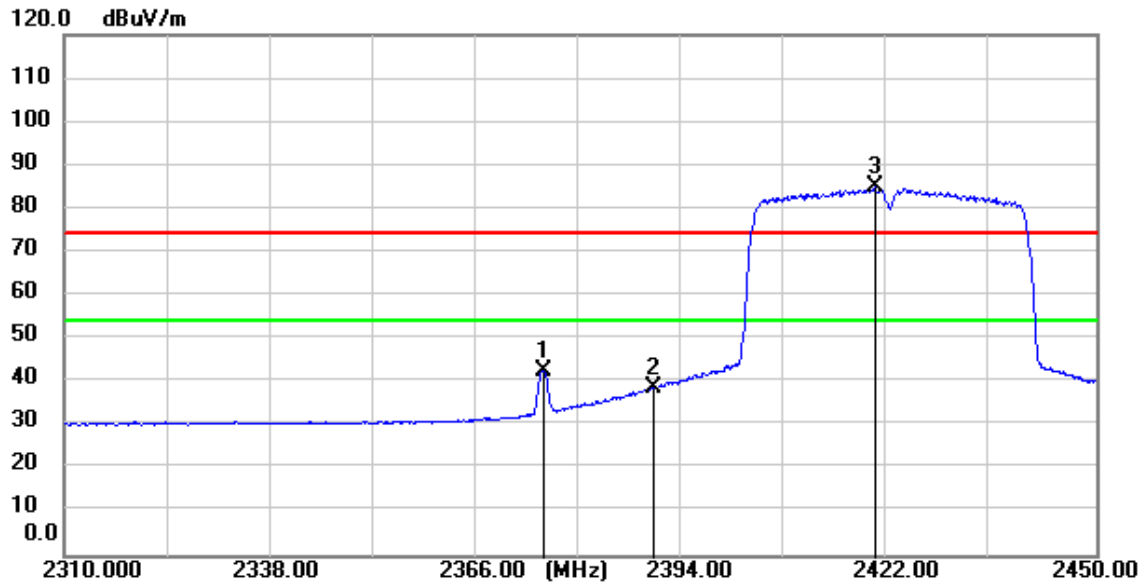
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2374.960	40.43	-0.87	39.56	54.00	-14.44	AVG
2	2390.000	38.79	-0.79	38.00	54.00	-16.00	AVG
3	2417.380	83.51	-0.65	82.86	54.00	28.86	AVG

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



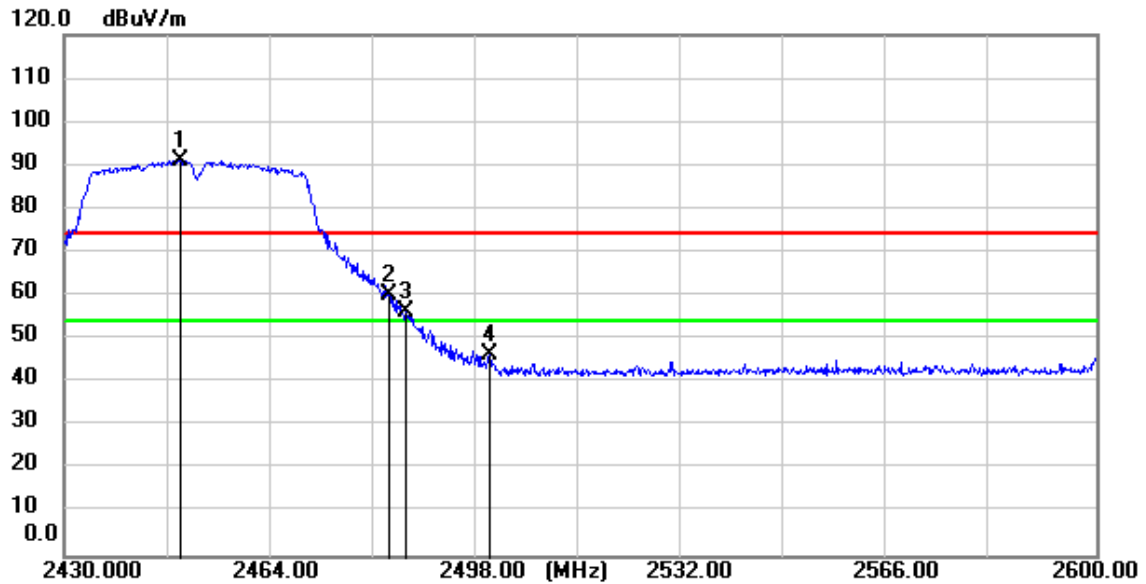
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.620	58.29	-0.82	57.47	74.00	-16.53	peak
2	2390.000	64.34	-0.79	63.55	74.00	-10.45	peak
3	2423.960	96.17	-0.62	95.55	74.00	21.55	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

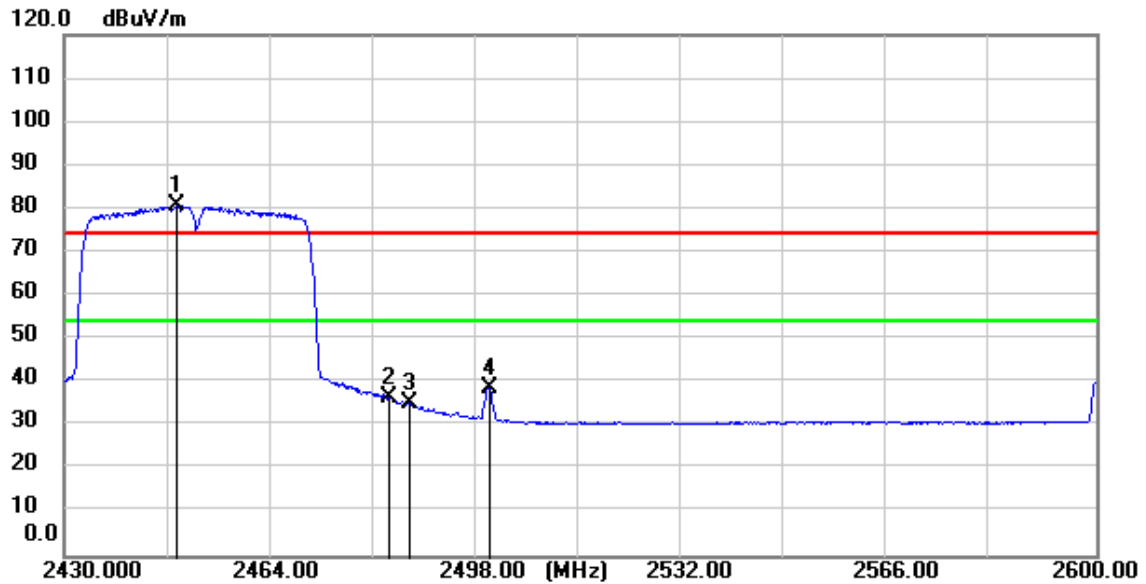


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2374.960	43.62	-0.87	42.75	54.00	-11.25	AVG
2	2390.000	39.60	-0.79	38.81	54.00	-15.19	AVG
3	2420.040	85.61	-0.64	84.97	54.00	30.97	AVG

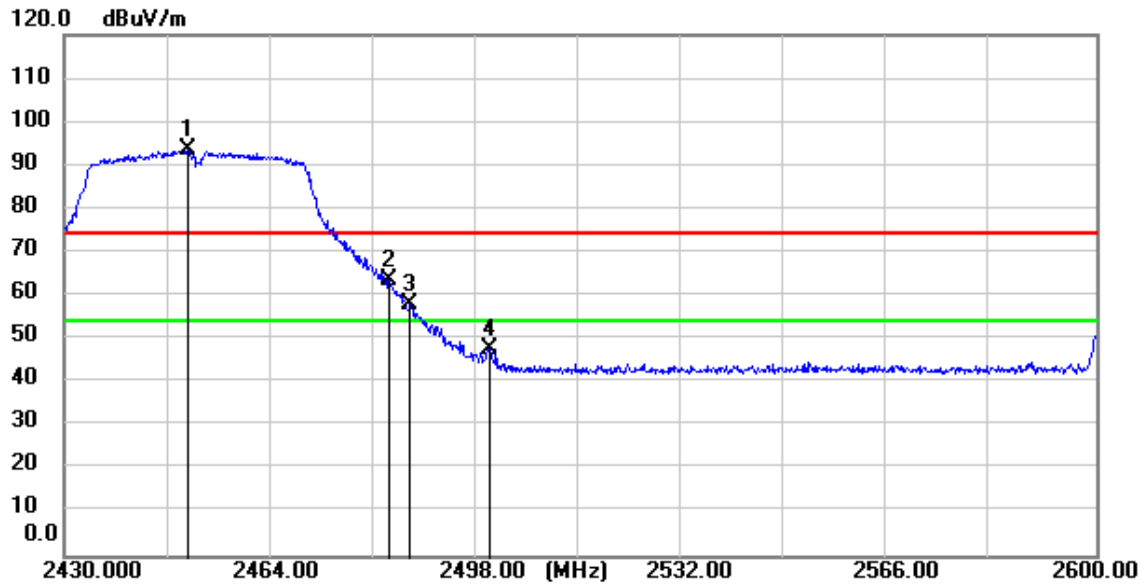
Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

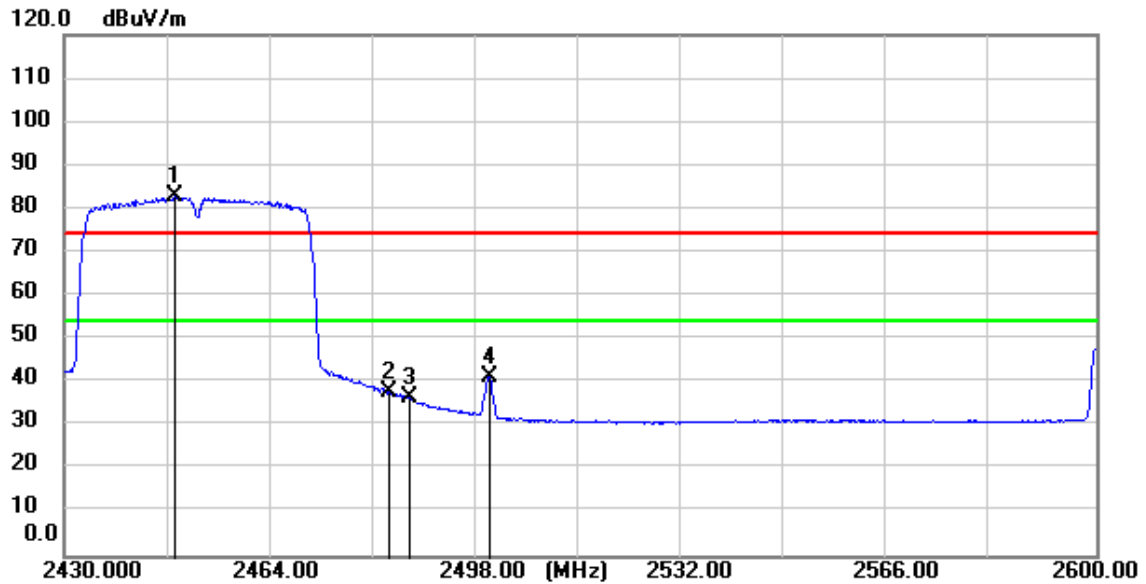


Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



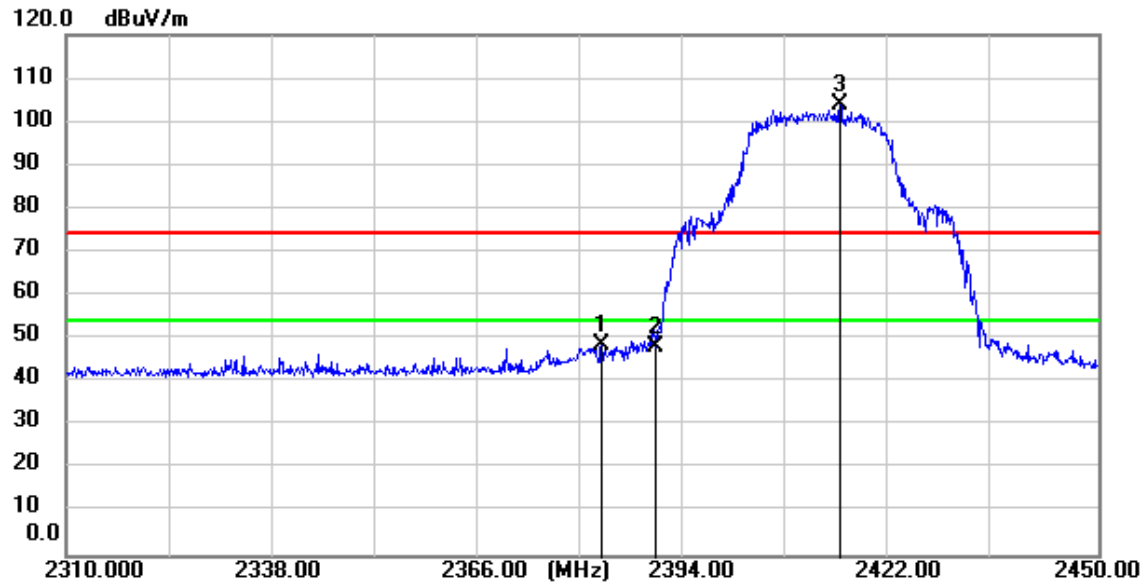
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2450.400	93.93	-0.49	93.44	74.00	19.44	peak
2	2483.500	63.90	-0.33	63.57	74.00	-10.43	peak
3	2486.950	58.56	-0.30	58.26	74.00	-15.74	peak
4	2500.000	47.93	-0.24	47.69	74.00	-26.31	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



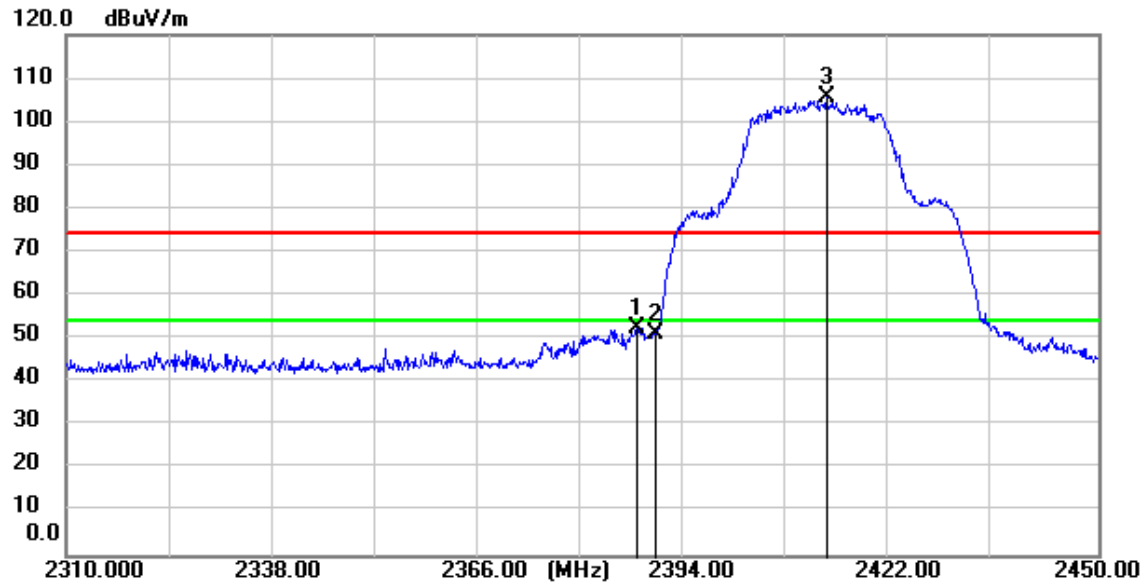
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2448.360	83.59	-0.50	83.09	54.00	29.09	AVG
2	2483.500	38.09	-0.33	37.76	54.00	-16.24	AVG
3	2486.780	36.73	-0.30	36.43	54.00	-17.57	AVG
4	2500.000	41.65	-0.24	41.41	54.00	-12.59	AVG

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



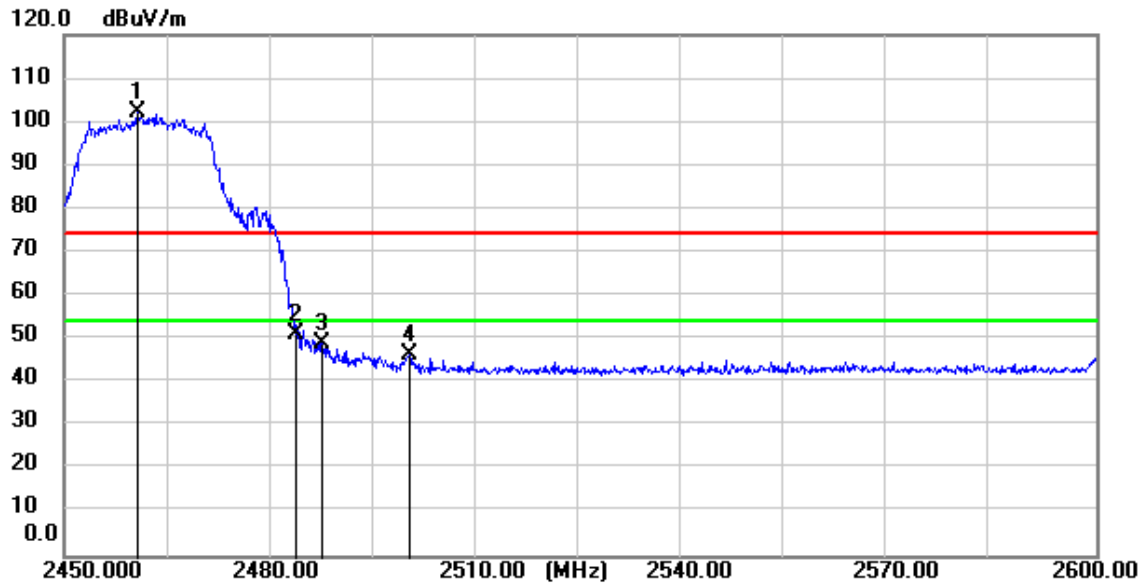
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2382.660	49.50	-0.83	48.67	74.00	-25.33	peak
2	2390.000	49.05	-0.79	48.26	74.00	-25.74	peak
3	2415.000	104.55	-0.67	103.88	74.00	29.88	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



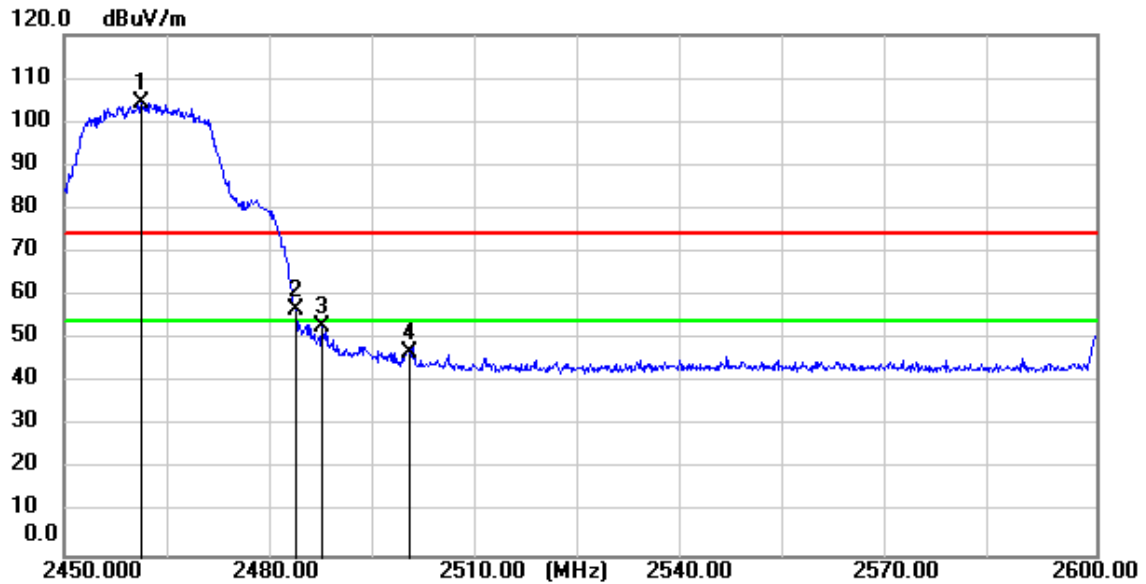
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.420	53.20	-0.80	52.40	74.00	-21.60	peak
2	2390.000	52.08	-0.79	51.29	74.00	-22.71	peak
3	2413.180	106.37	-0.68	105.69	74.00	31.69	peak

Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: High



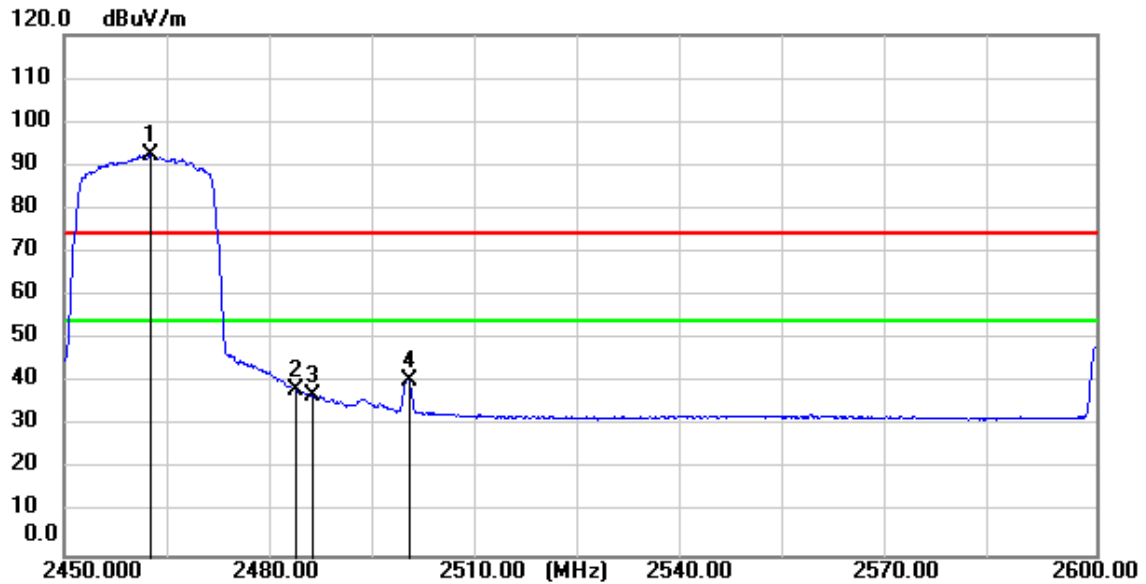
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.650	102.84	-0.44	102.40	74.00	28.40	peak
2	2483.500	51.43	-0.33	51.10	74.00	-22.90	peak
3	2487.500	49.50	-0.30	49.20	74.00	-24.80	peak
4	2500.000	46.54	-0.24	46.30	74.00	-27.70	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

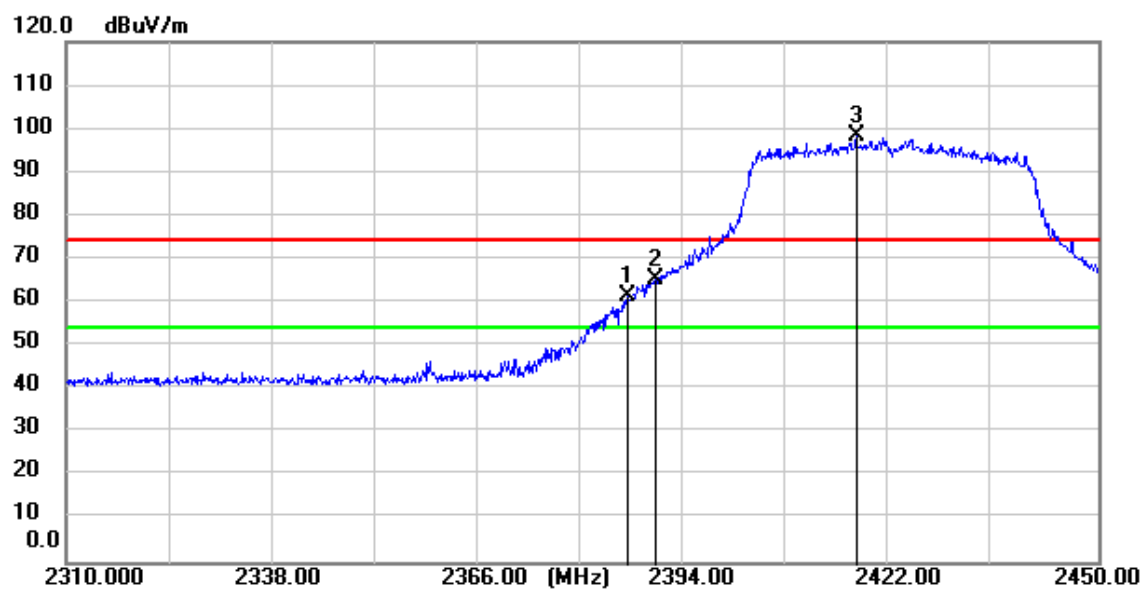


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.250	104.82	-0.43	104.39	74.00	30.39	peak
2	2483.500	57.13	-0.33	56.80	74.00	-17.20	peak
3	2487.500	53.30	-0.30	53.00	74.00	-21.00	peak
4	2500.000	47.38	-0.24	47.14	74.00	-26.86	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

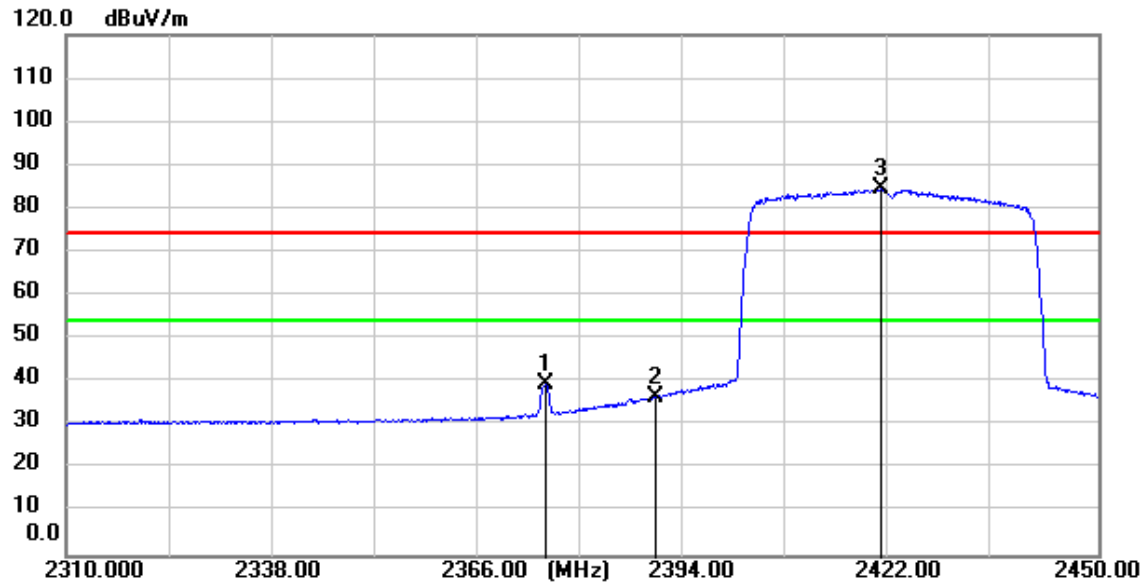


Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: Low



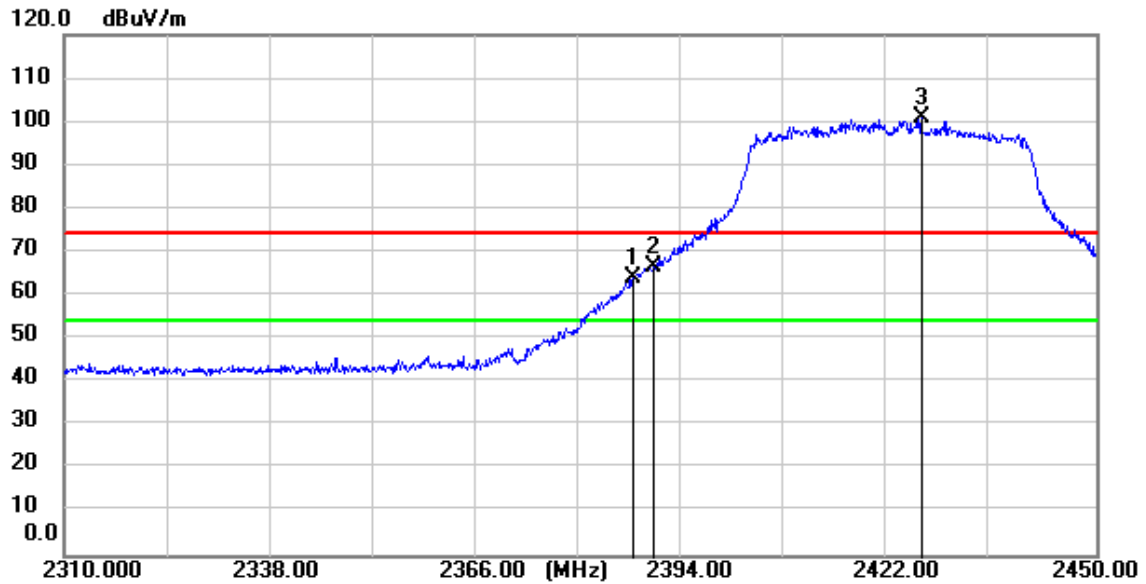
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.300	62.45	-0.80	61.65	74.00	-12.35	peak
2	2390.000	66.01	-0.79	65.22	74.00	-8.78	peak
3	2417.240	99.16	-0.65	98.51	74.00	24.51	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



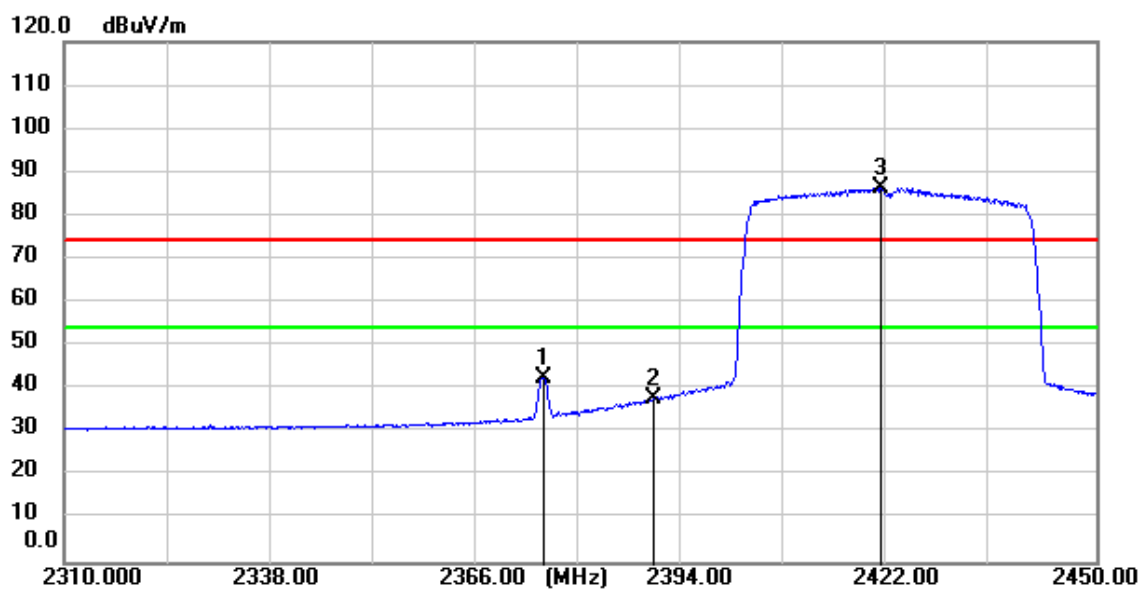
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2374.960	40.30	-0.87	39.43	54.00	-14.57	AVG
2	2390.000	37.54	-0.79	36.75	54.00	-17.25	AVG
3	2420.600	85.17	-0.64	84.53	54.00	30.53	AVG

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



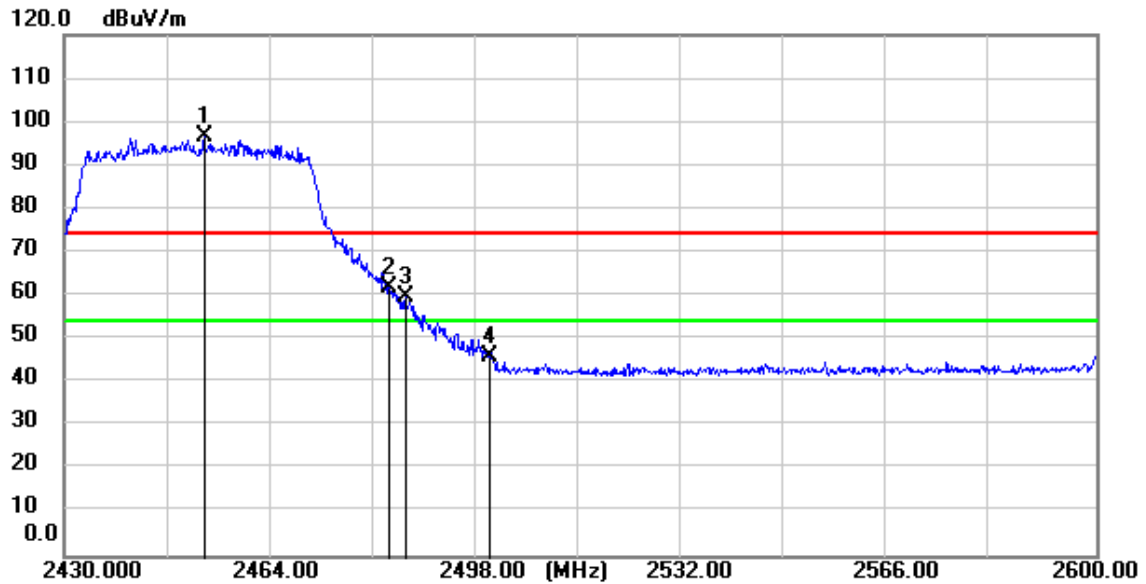
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.280	65.05	-0.80	64.25	74.00	-9.75	peak
2	2390.000	67.26	-0.79	66.47	74.00	-7.53	peak
3	2426.340	101.38	-0.60	100.78	74.00	26.78	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



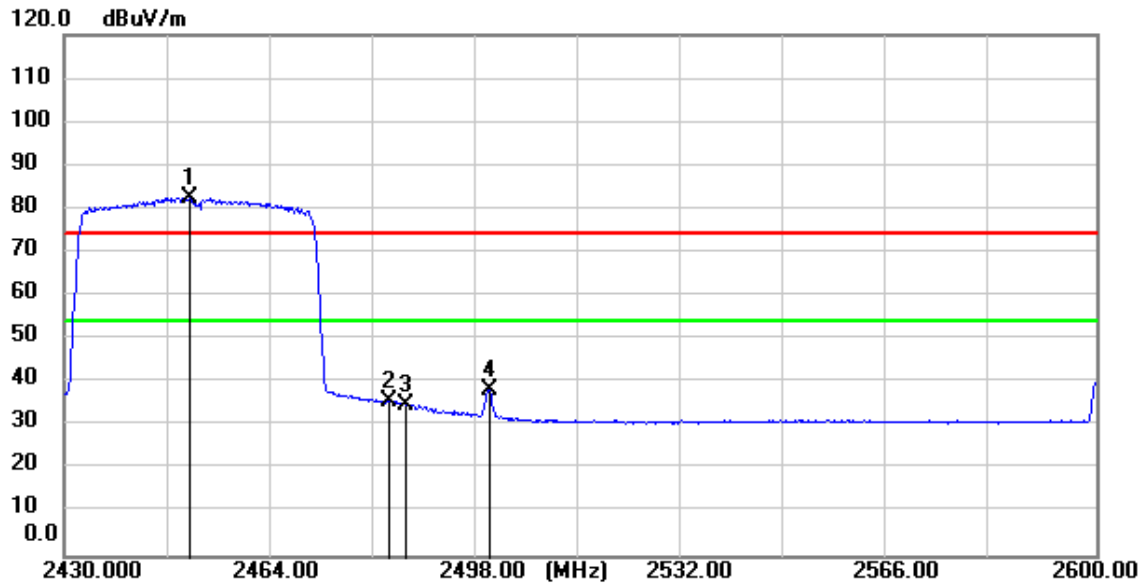
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2374.960	43.68	-0.87	42.81	54.00	-11.19	AVG
2	2390.000	38.52	-0.79	37.73	54.00	-16.27	AVG
3	2420.880	87.16	-0.64	86.52	54.00	32.52	AVG

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

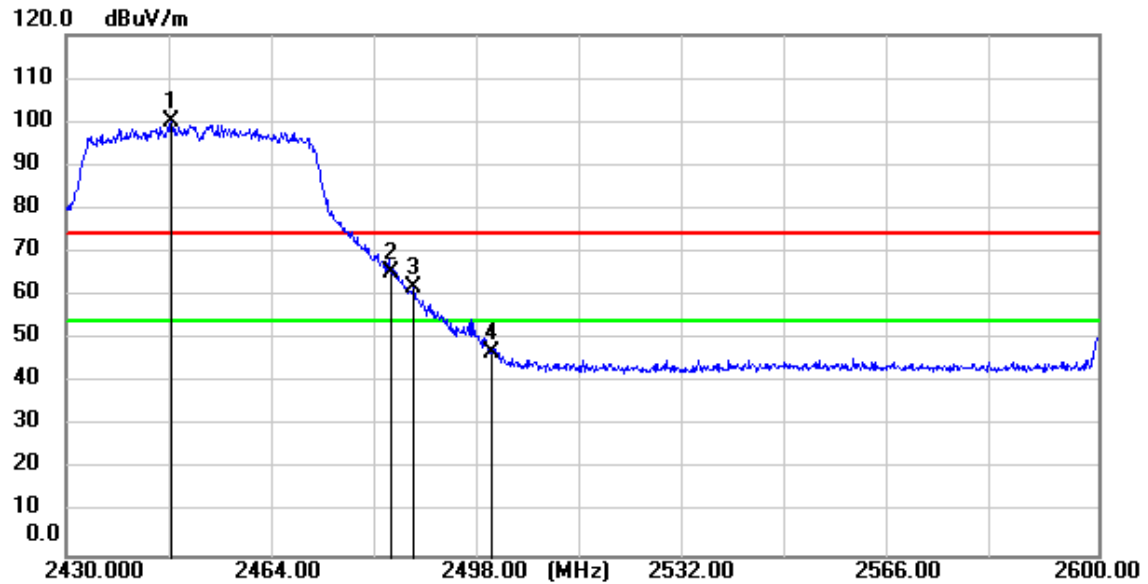


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2453.120	97.20	-0.48	96.72	74.00	22.72	peak
2	2483.500	62.22	-0.33	61.89	74.00	-12.11	peak
3	2486.270	60.07	-0.31	59.76	74.00	-14.24	peak
4	2500.000	46.46	-0.24	46.22	74.00	-27.78	peak

Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: High

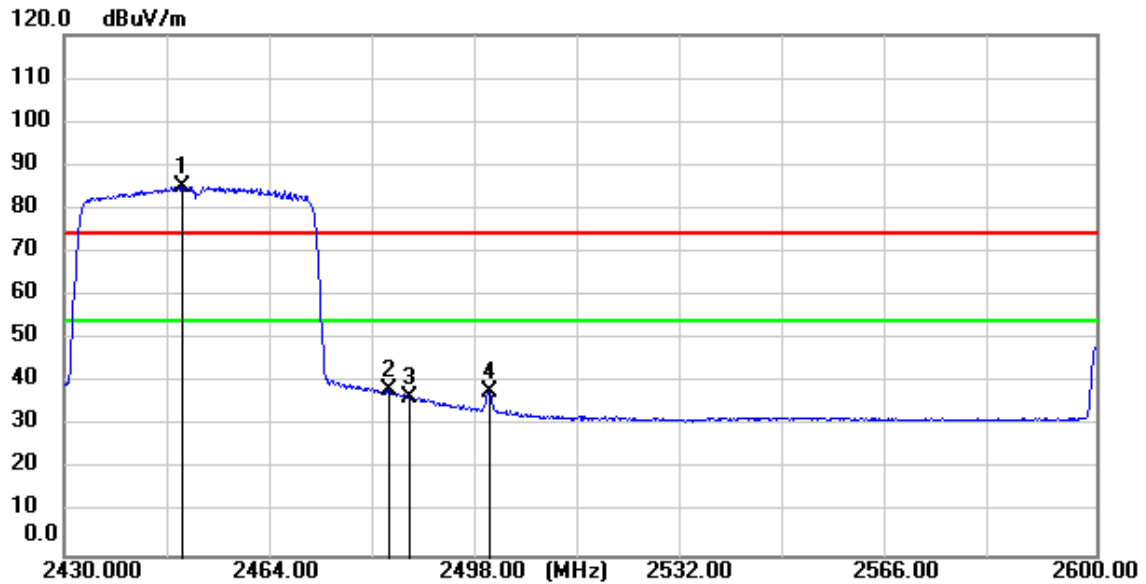


Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2447.340	100.67	-0.50	100.17	74.00	26.17	peak
2	2483.500	65.52	-0.33	65.19	74.00	-8.81	peak
3	2487.290	62.27	-0.30	61.97	74.00	-12.03	peak
4	2500.000	47.15	-0.24	46.91	74.00	-27.09	peak

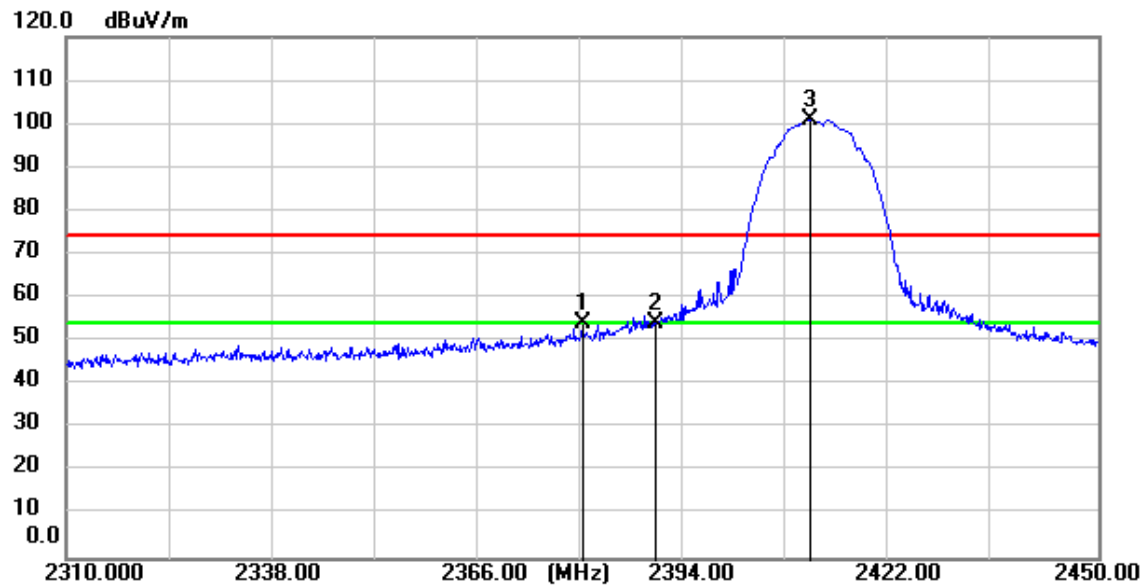
Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2449.380	85.61	-0.49	85.12	54.00	31.12	AVG
2	2483.500	38.58	-0.33	38.25	54.00	-15.75	AVG
3	2486.950	36.96	-0.30	36.66	54.00	-17.34	AVG
4	2500.000	38.35	-0.24	38.11	54.00	-15.89	AVG

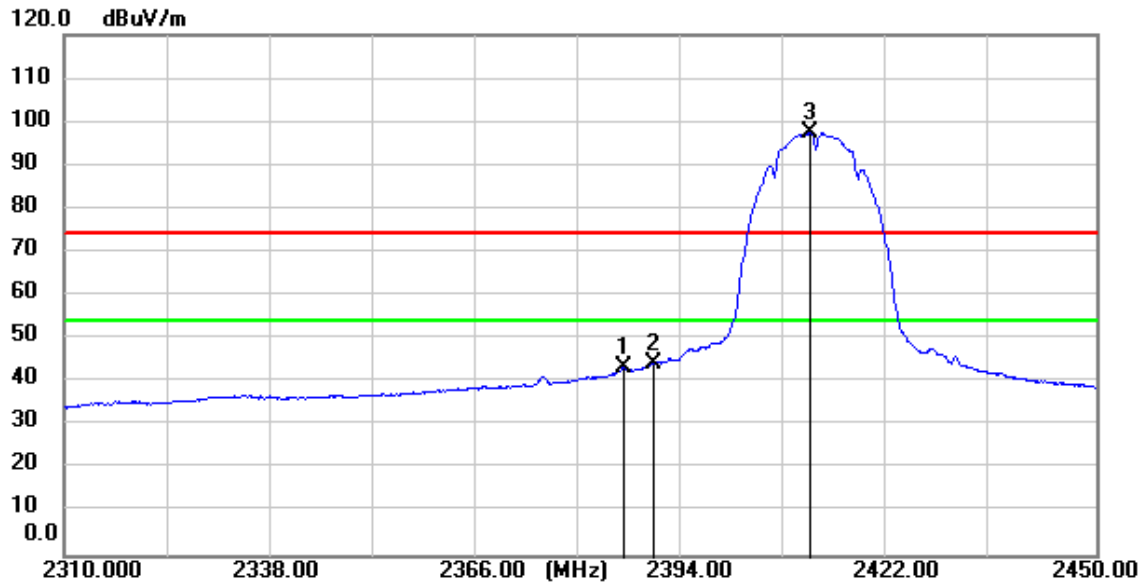
WLAN 1

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



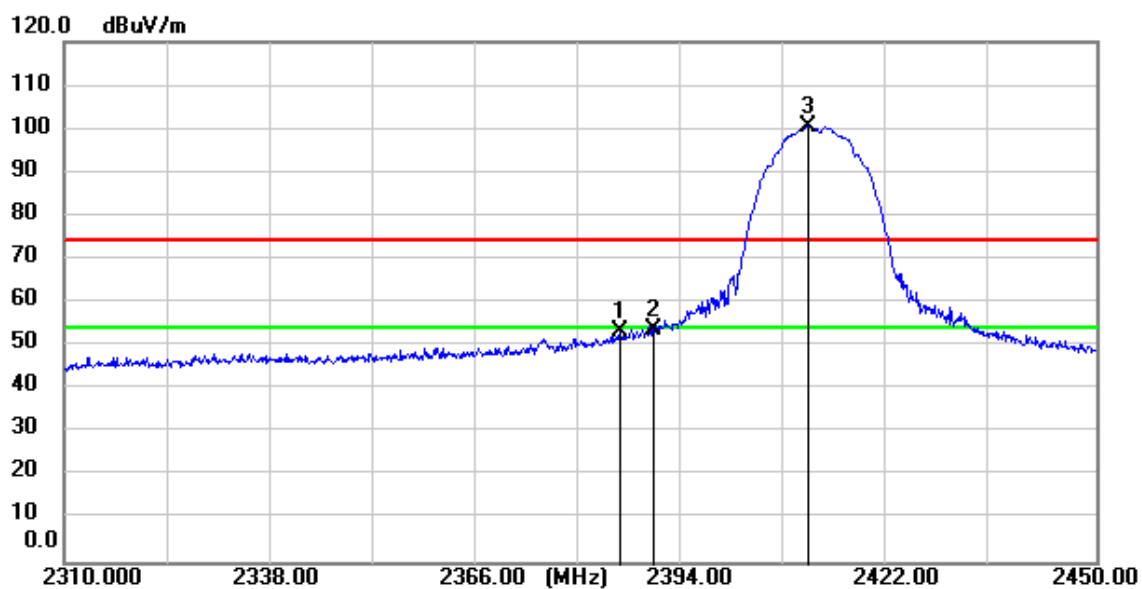
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2380.000	54.84	-0.84	54.00	74.00	-20.00	peak
2	2390.000	55.14	-0.79	54.35	74.00	-19.65	peak
3	2410.940	101.70	-0.69	101.01	74.00	27.01	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



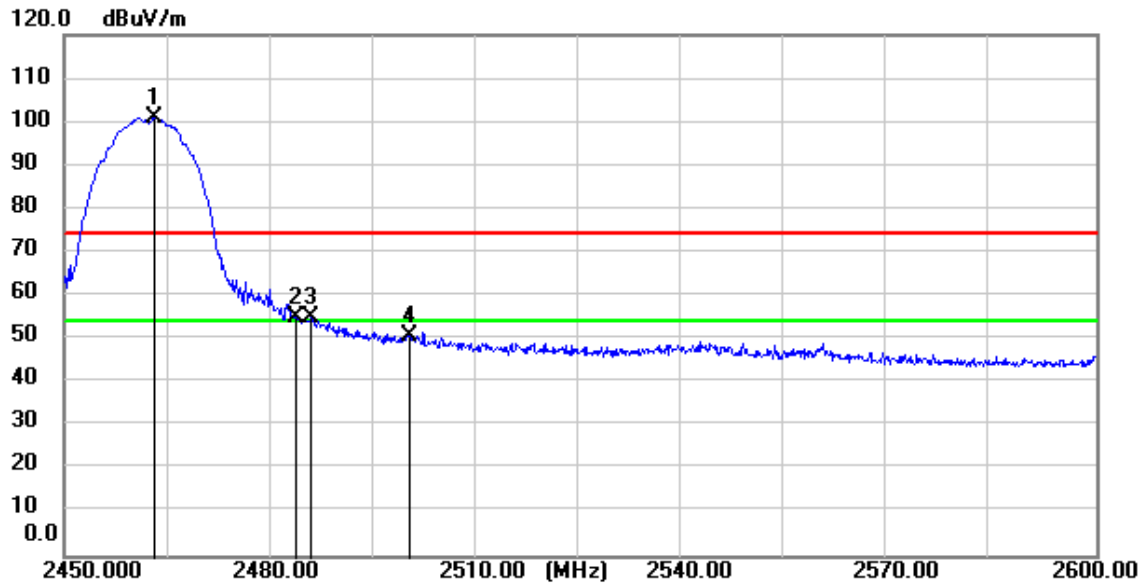
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.880	44.20	-0.80	43.40	54.00	-10.60	AVG
2	2390.000	45.14	-0.79	44.35	54.00	-9.65	AVG
3	2411.220	98.33	-0.68	97.65	54.00	43.65	AVG

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



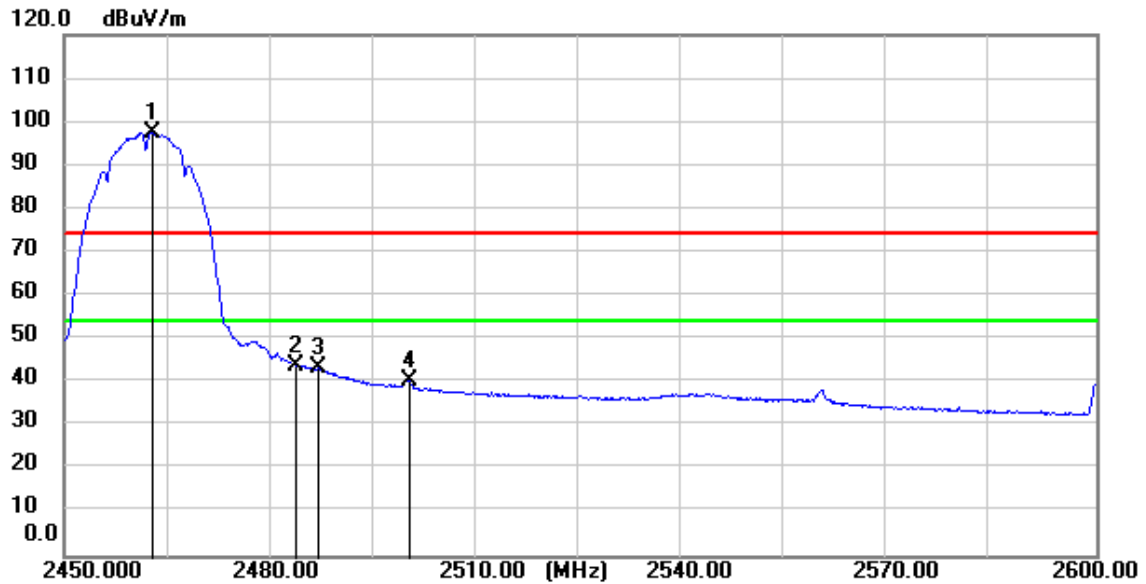
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.320	54.03	-0.81	53.22	74.00	-20.78	peak
2	2390.000	54.44	-0.79	53.65	74.00	-20.35	peak
3	2411.080	101.14	-0.68	100.46	74.00	26.46	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



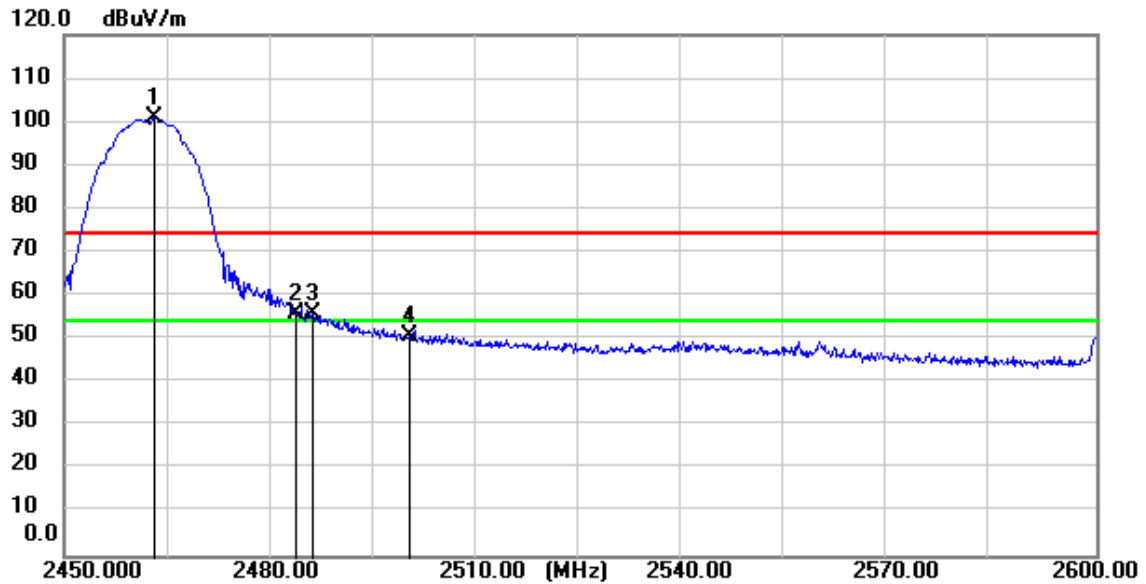
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.200	101.52	-0.43	101.09	74.00	27.09	peak
2	2483.500	55.26	-0.33	54.93	74.00	-19.07	peak
3	2486.000	55.36	-0.31	55.05	74.00	-18.95	peak
4	2500.000	50.95	-0.24	50.71	74.00	-23.29	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



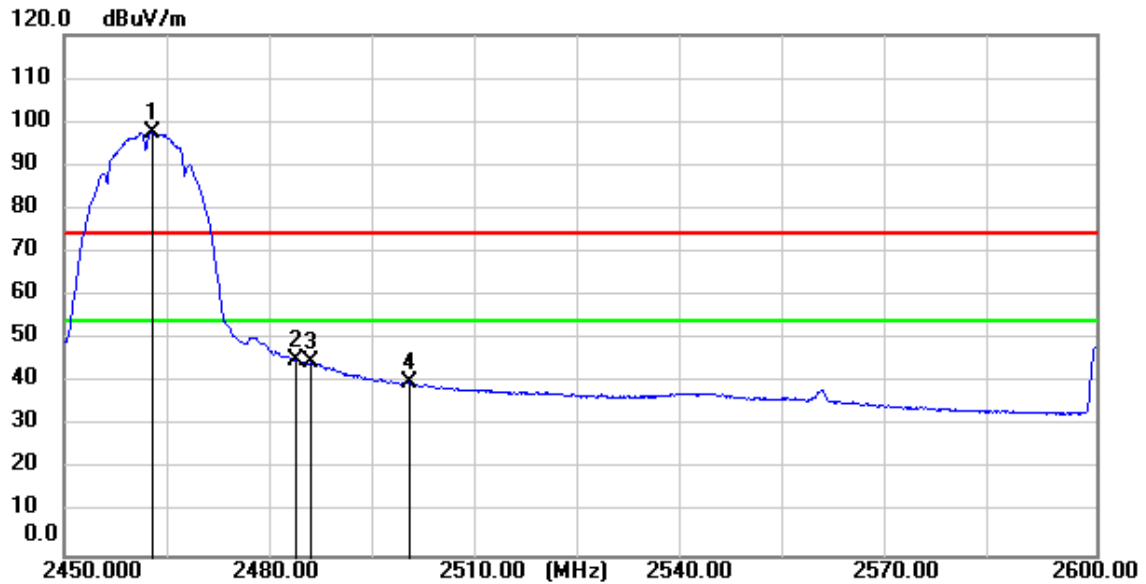
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.750	97.85	-0.43	97.42	54.00	43.42	AVG
2	2483.500	44.47	-0.33	44.14	54.00	-9.86	AVG
3	2486.900	43.81	-0.30	43.51	54.00	-10.49	AVG
4	2500.000	40.79	-0.24	40.55	54.00	-13.45	AVG

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



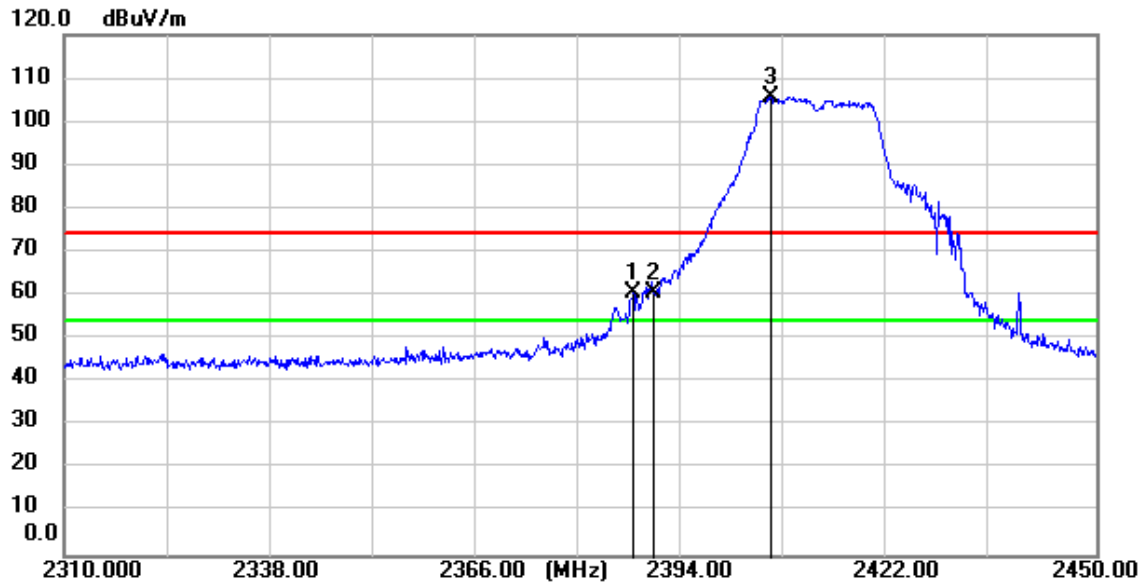
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.200	101.54	-0.43	101.11	74.00	27.11	peak
2	2483.500	56.21	-0.33	55.88	74.00	-18.12	peak
3	2486.150	56.10	-0.31	55.79	74.00	-18.21	peak
4	2500.000	50.94	-0.24	50.70	74.00	-23.30	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



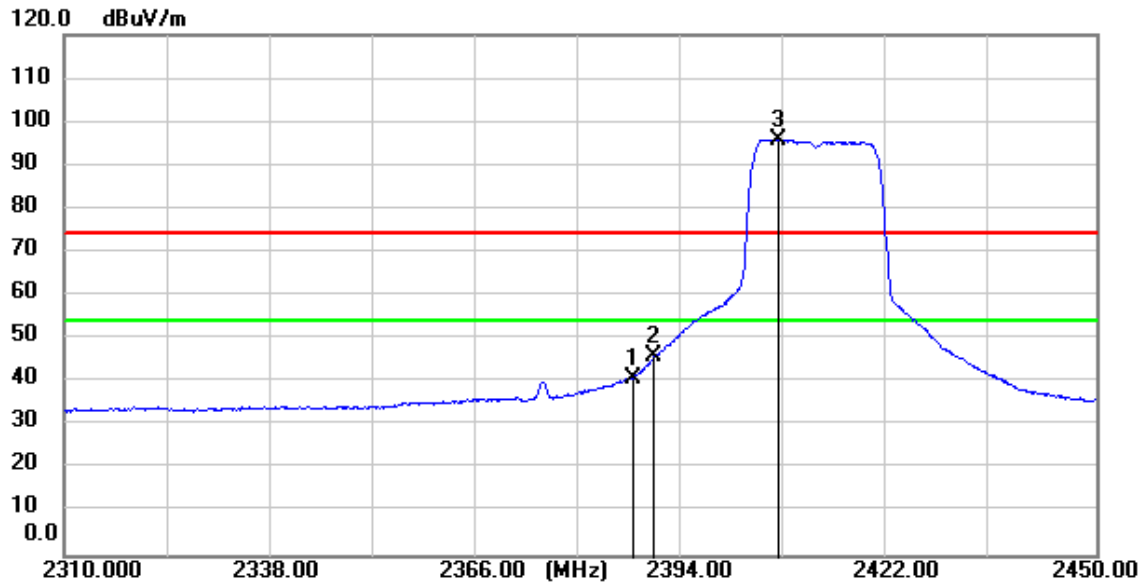
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.750	97.86	-0.43	97.43	54.00	43.43	AVG
2	2483.500	45.40	-0.33	45.07	54.00	-8.93	AVG
3	2486.000	44.96	-0.31	44.65	54.00	-9.35	AVG
4	2500.000	40.32	-0.24	40.08	54.00	-13.92	AVG

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



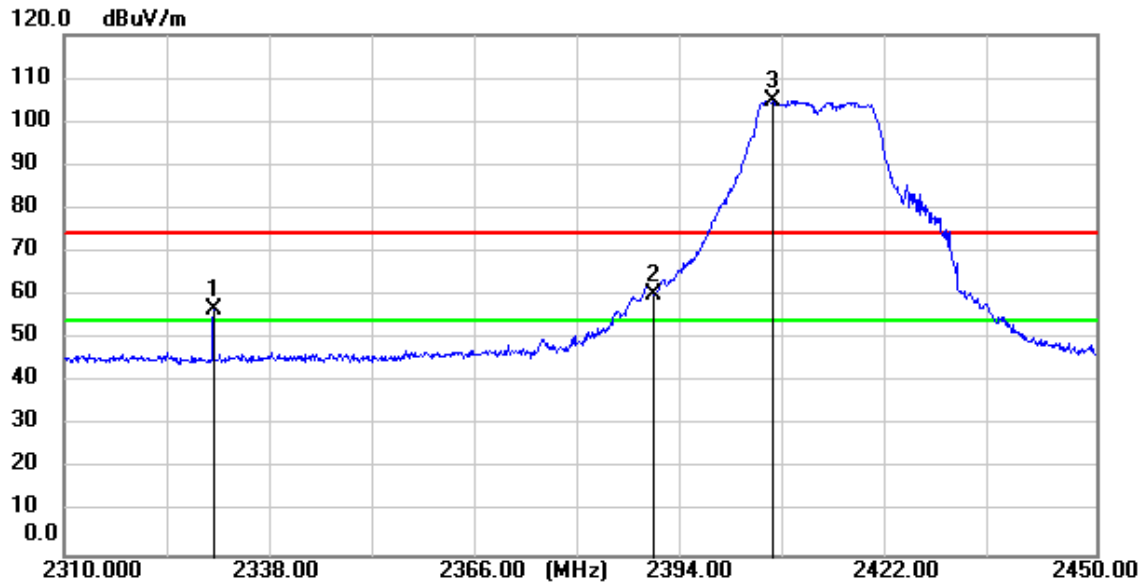
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.280	61.57	-0.80	60.77	74.00	-13.23	peak
2	2390.000	61.58	-0.79	60.79	74.00	-13.21	peak
3	2405.900	106.41	-0.71	105.70	74.00	31.70	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



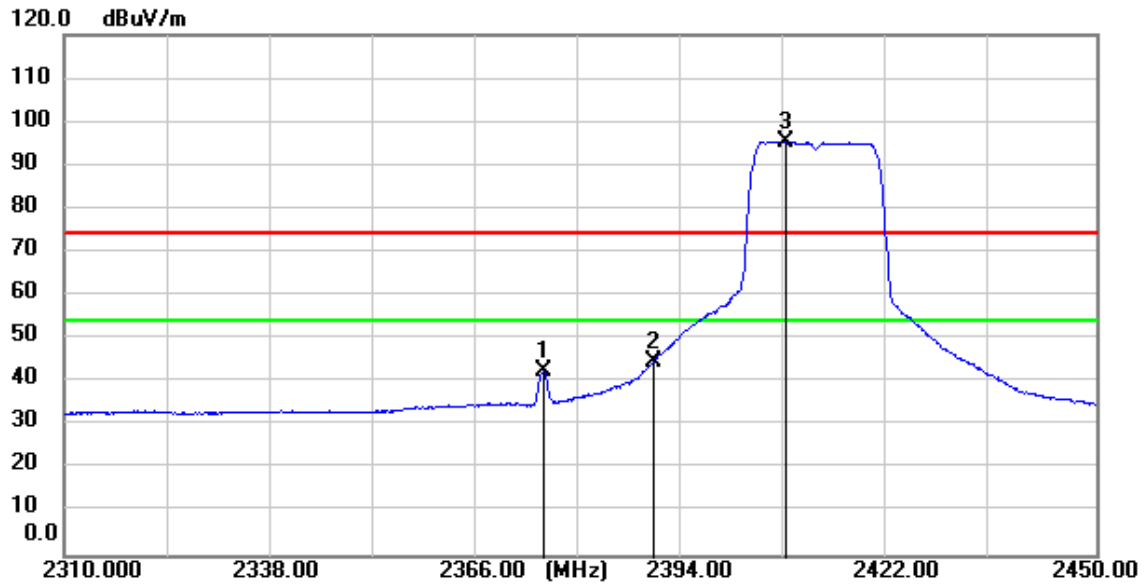
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.140	41.72	-0.80	40.92	54.00	-13.08	AVG
2	2390.000	46.75	-0.79	45.96	54.00	-8.04	AVG
3	2406.880	96.65	-0.70	95.95	54.00	41.95	AVG

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



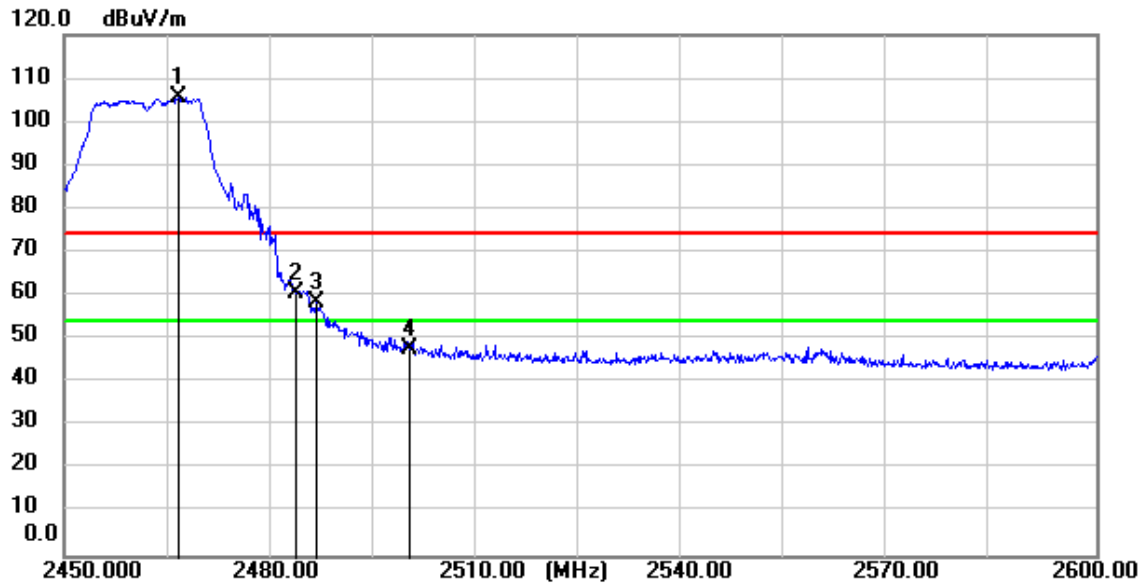
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2330.300	57.69	-1.07	56.62	74.00	-17.38	peak
2	2390.000	60.90	-0.79	60.11	74.00	-13.89	peak
3	2406.040	105.69	-0.70	104.99	74.00	30.99	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



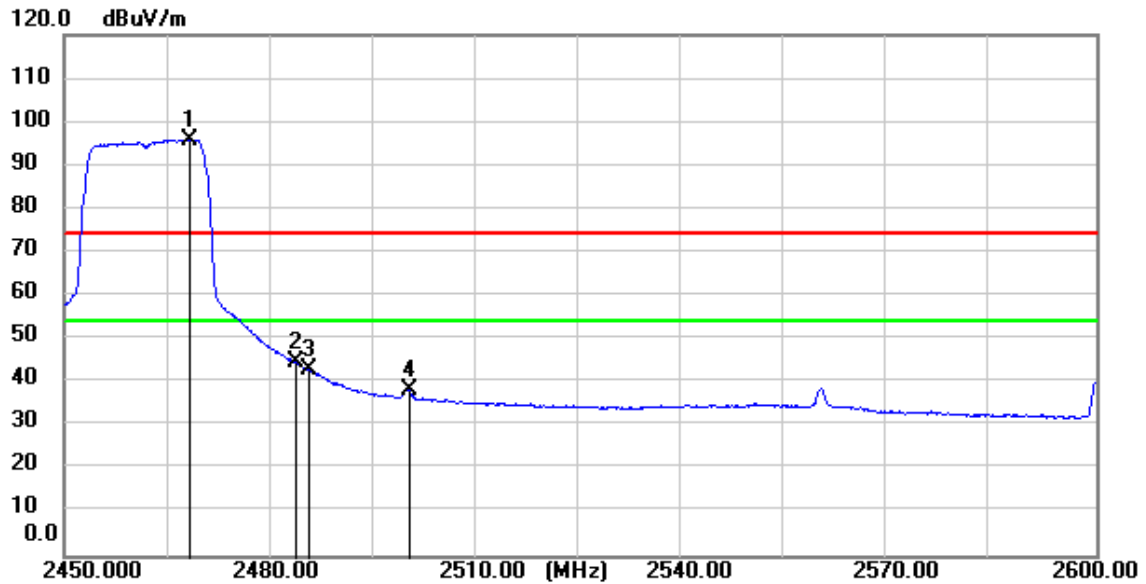
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2374.960	43.42	-0.87	42.55	54.00	-11.45	AVG
2	2390.000	45.70	-0.79	44.91	54.00	-9.09	AVG
3	2408.000	96.17	-0.70	95.47	54.00	41.47	AVG

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High

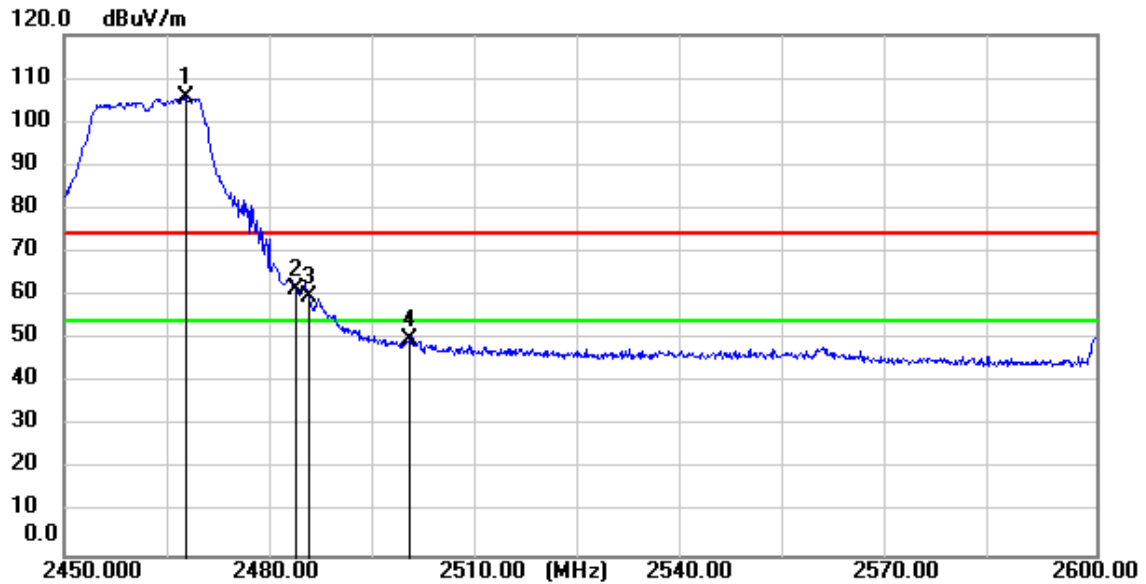


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2466.650	105.91	-0.40	105.51	74.00	31.51	peak
2	2483.500	60.99	-0.33	60.66	74.00	-13.34	peak
3	2486.750	58.64	-0.30	58.34	74.00	-15.66	peak
4	2500.000	47.89	-0.24	47.65	74.00	-26.35	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High

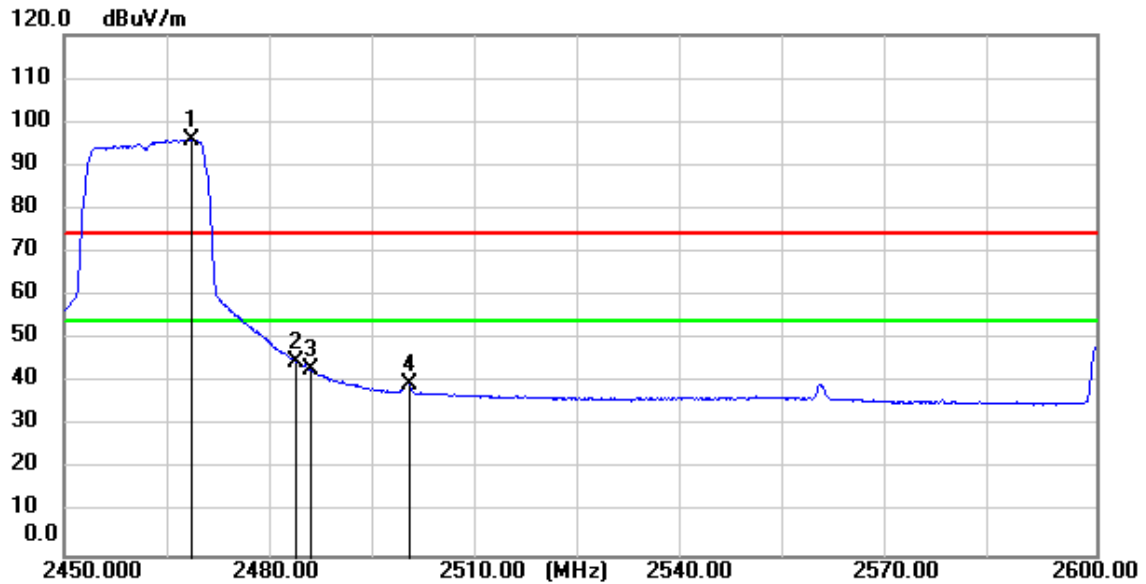


Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



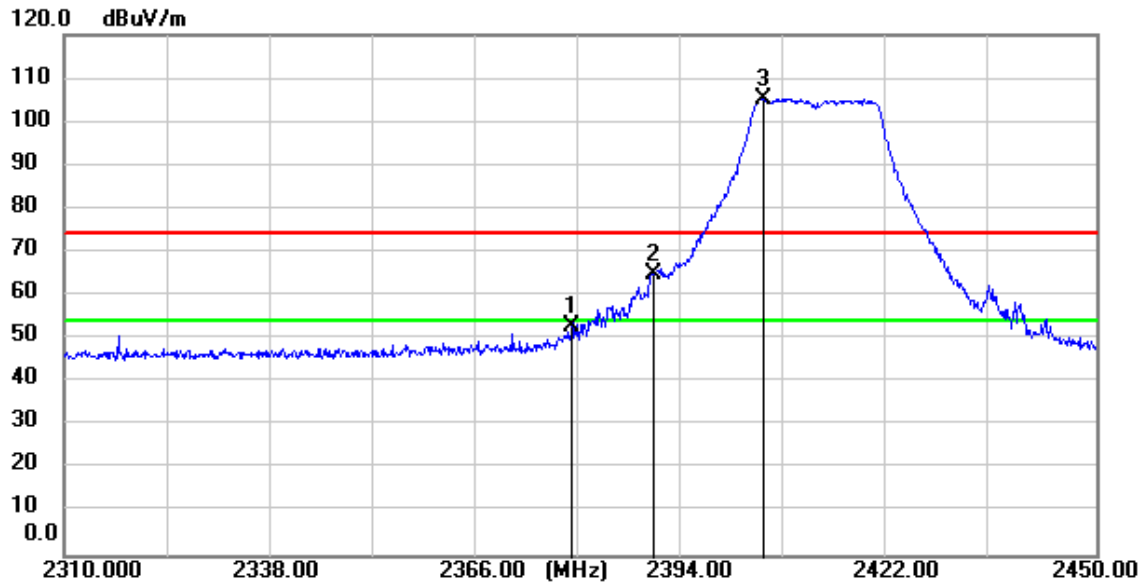
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2467.700	106.10	-0.40	105.70	74.00	31.70	peak
2	2483.500	62.03	-0.33	61.70	74.00	-12.30	peak
3	2485.550	60.10	-0.31	59.79	74.00	-14.21	peak
4	2500.000	50.33	-0.24	50.09	74.00	-23.91	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



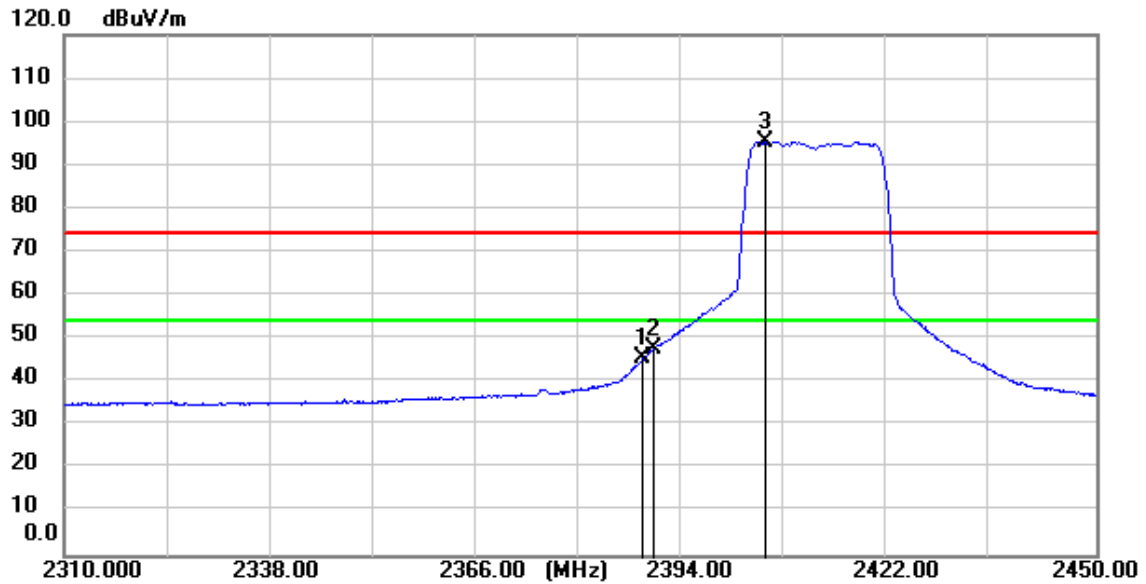
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2468.600	96.35	-0.40	95.95	54.00	41.95	AVG
2	2483.500	45.28	-0.33	44.95	54.00	-9.05	AVG
3	2486.000	43.53	-0.31	43.22	54.00	-10.78	AVG
4	2500.000	39.87	-0.24	39.63	54.00	-14.37	AVG

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



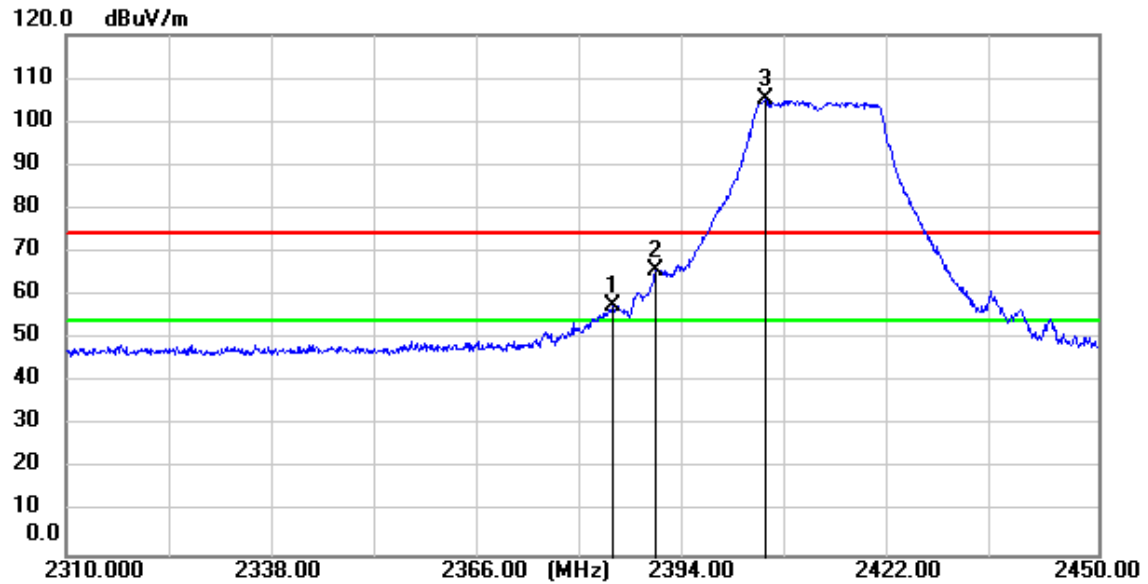
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2378.880	53.72	-0.84	52.88	74.00	-21.12	peak
2	2390.000	65.59	-0.79	64.80	74.00	-9.20	peak
3	2404.920	106.13	-0.72	105.41	74.00	31.41	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



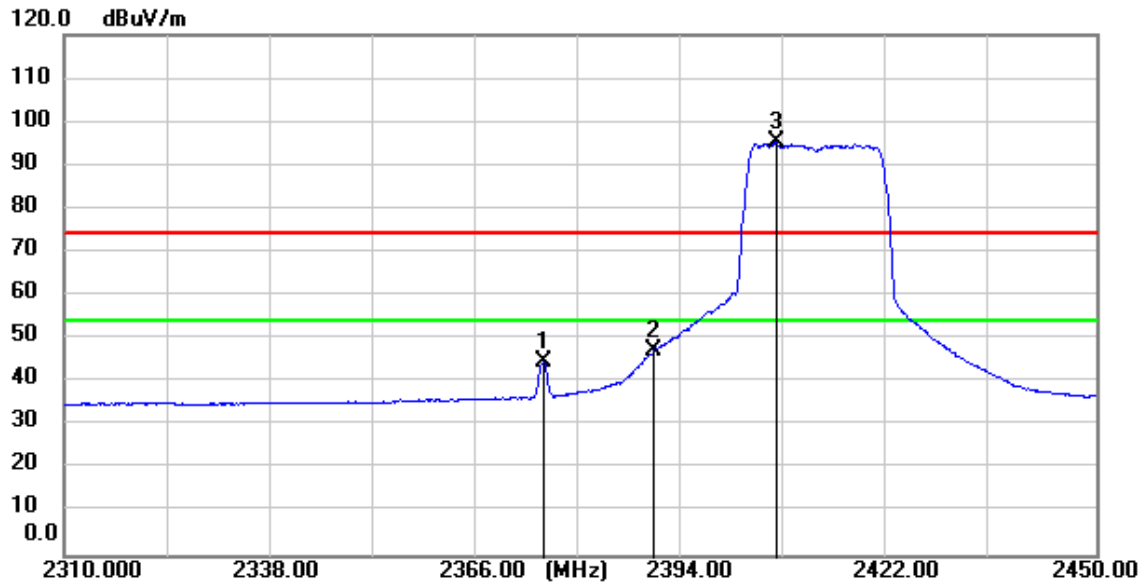
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.540	46.37	-0.79	45.58	54.00	-8.42	AVG
2	2390.000	48.53	-0.79	47.74	54.00	-6.26	AVG
3	2405.200	96.18	-0.71	95.47	54.00	41.47	AVG

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



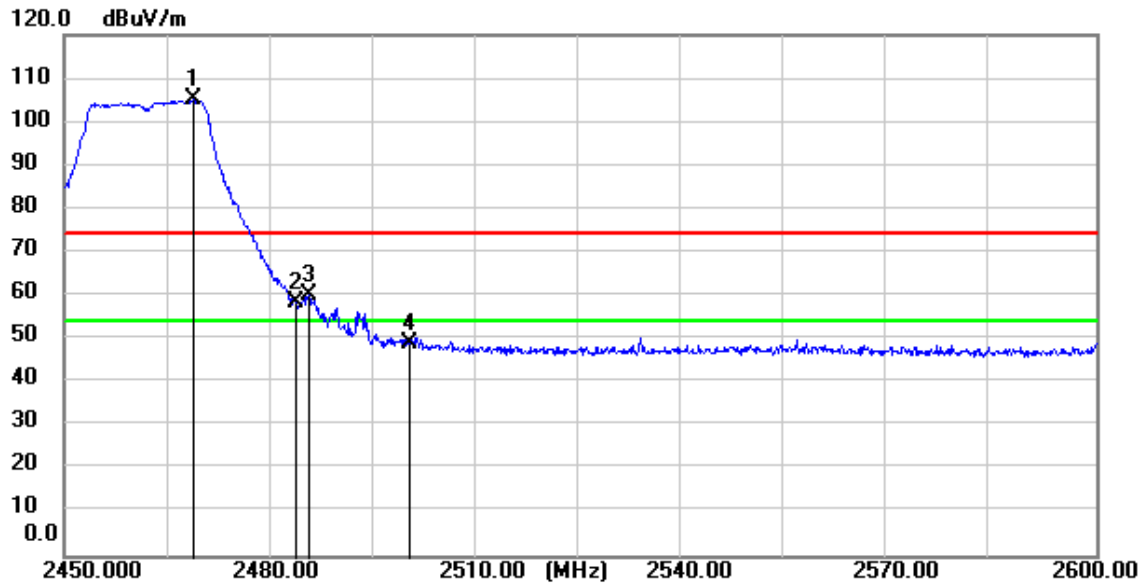
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.060	58.35	-0.82	57.53	74.00	-16.47	peak
2	2390.000	66.59	-0.79	65.80	74.00	-8.20	peak
3	2404.920	105.78	-0.72	105.06	74.00	31.06	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



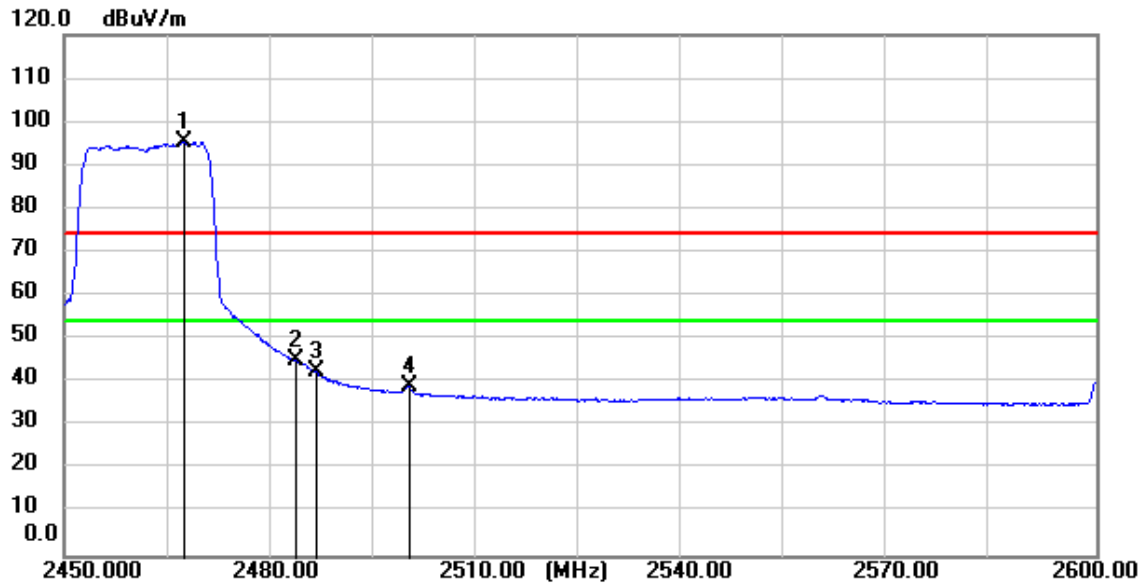
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2374.960	45.50	-0.87	44.63	54.00	-9.37	AVG
2	2390.000	47.98	-0.79	47.19	54.00	-6.81	AVG
3	2406.600	96.02	-0.70	95.32	54.00	41.32	AVG

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

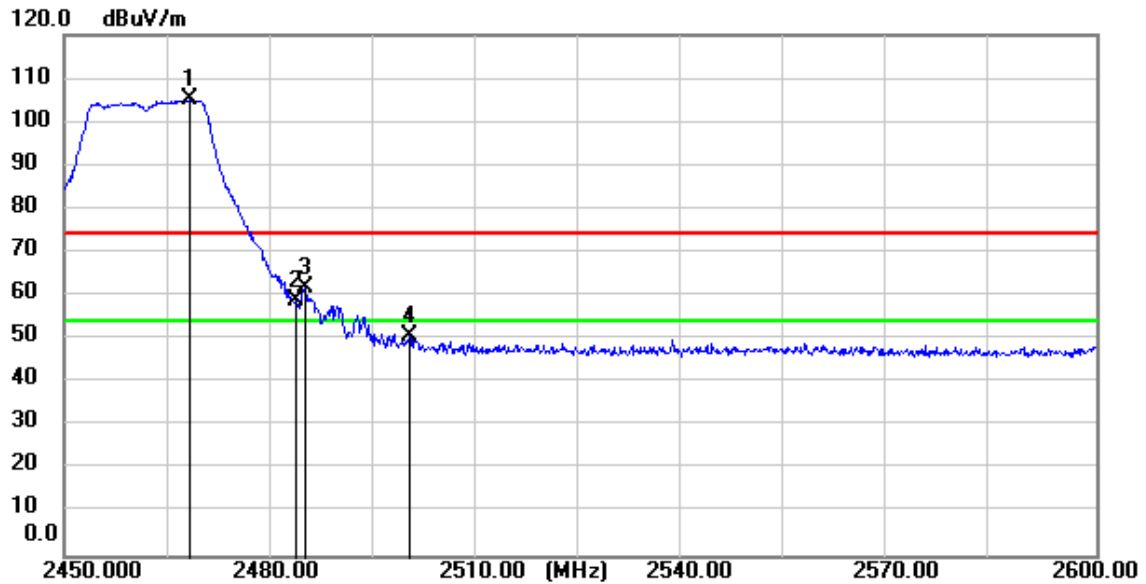


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2468.750	105.49	-0.39	105.10	74.00	31.10	peak
2	2483.500	58.69	-0.33	58.36	74.00	-15.64	peak
3	2485.700	60.59	-0.31	60.28	74.00	-13.72	peak
4	2500.000	49.46	-0.24	49.22	74.00	-24.78	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

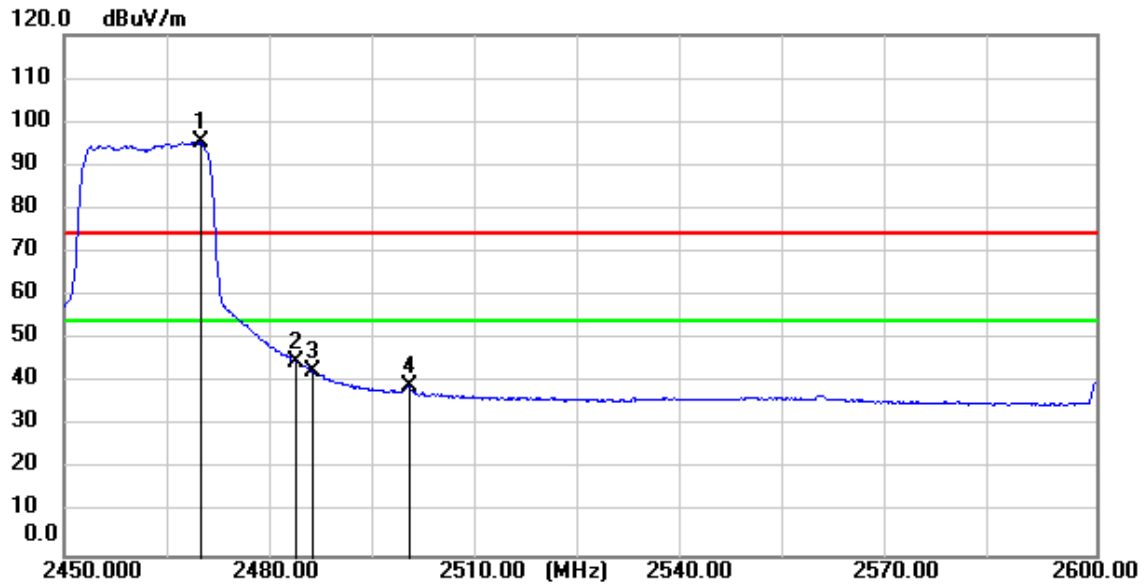


Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



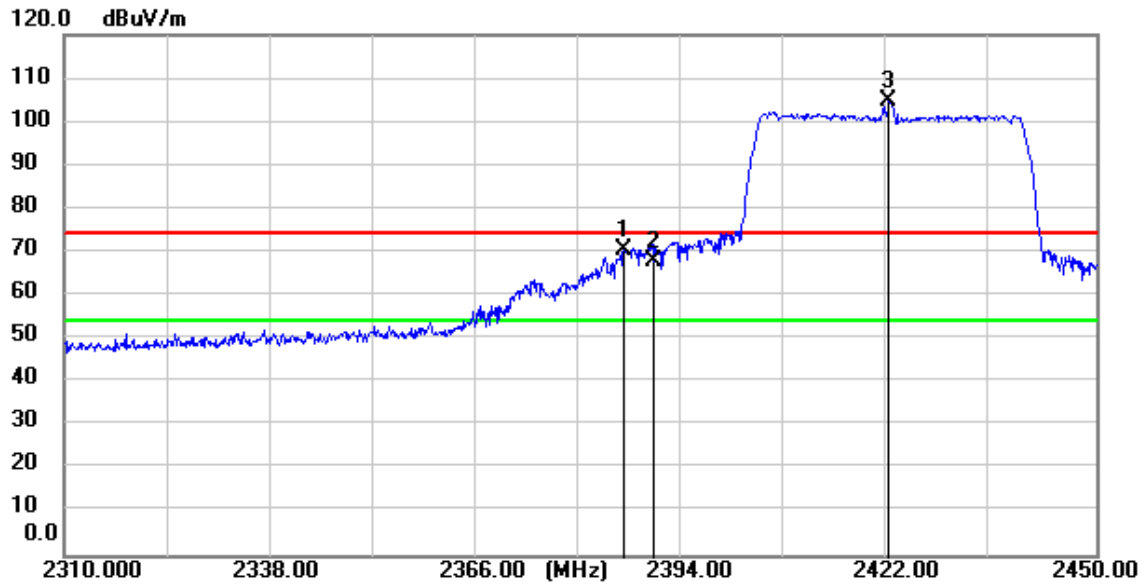
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2468.300	105.50	-0.40	105.10	74.00	31.10	peak
2	2483.500	59.32	-0.33	58.99	74.00	-15.01	peak
3	2485.100	62.15	-0.31	61.84	74.00	-12.16	peak
4	2500.000	50.87	-0.24	50.63	74.00	-23.37	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



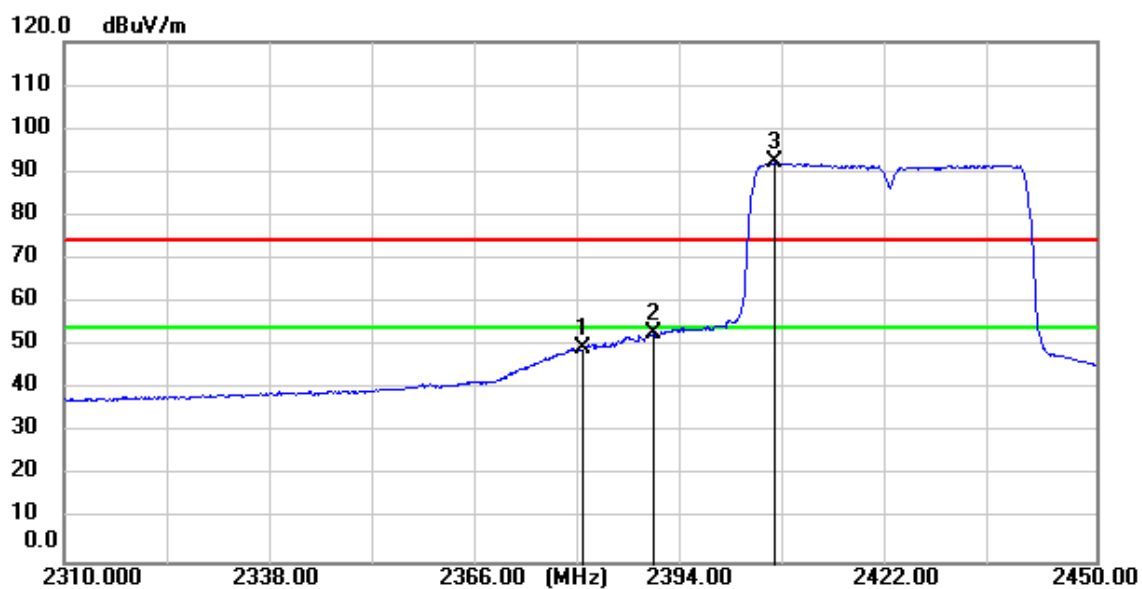
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2469.950	95.65	-0.39	95.26	54.00	41.26	AVG
2	2483.500	45.17	-0.33	44.84	54.00	-9.16	AVG
3	2486.150	42.88	-0.31	42.57	54.00	-11.43	AVG
4	2500.000	39.26	-0.24	39.02	54.00	-14.98	AVG

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



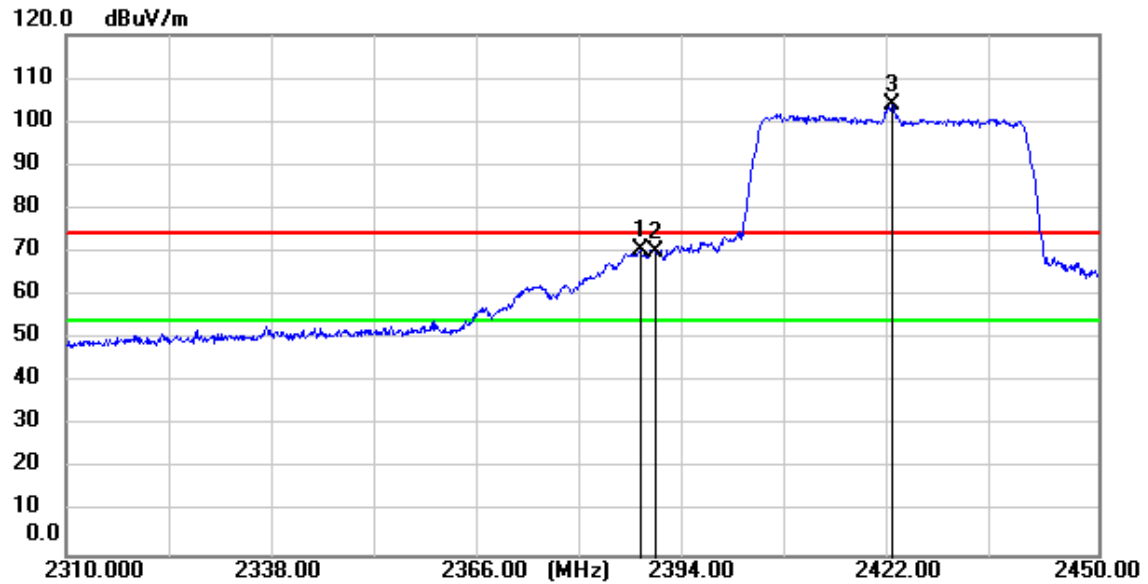
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.020	71.29	-0.80	70.49	74.00	-3.51	peak
2	2390.000	68.89	-0.79	68.10	74.00	-5.90	peak
3	2421.860	105.26	-0.63	104.63	74.00	30.63	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



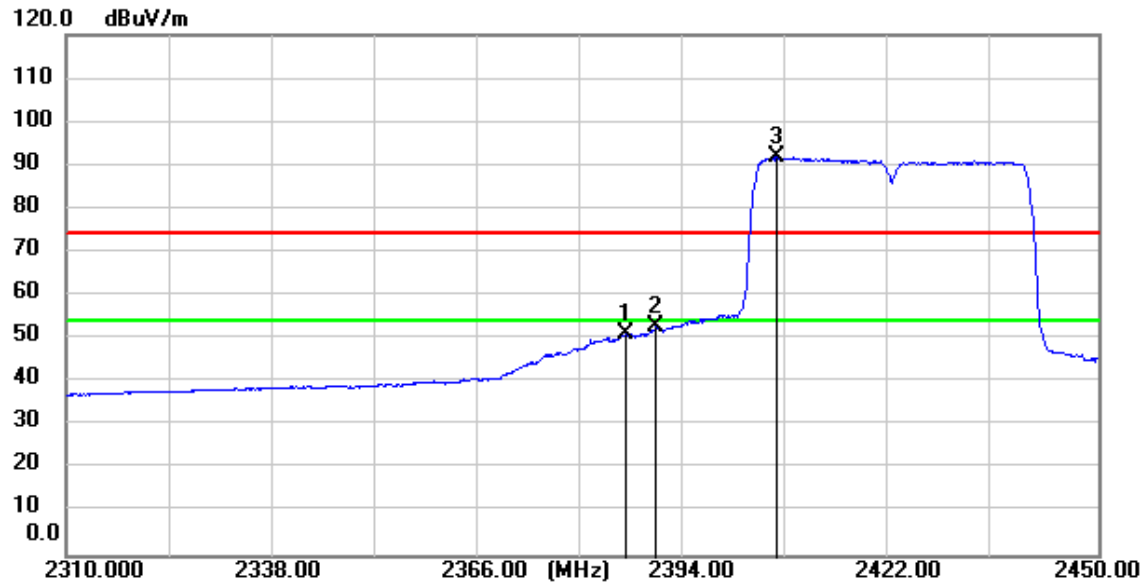
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2380.420	50.52	-0.84	49.68	54.00	-4.32	AVG
2	2390.000	53.79	-0.79	53.00	54.00	-1.00	AVG
3	2406.320	92.85	-0.70	92.15	54.00	38.15	AVG

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

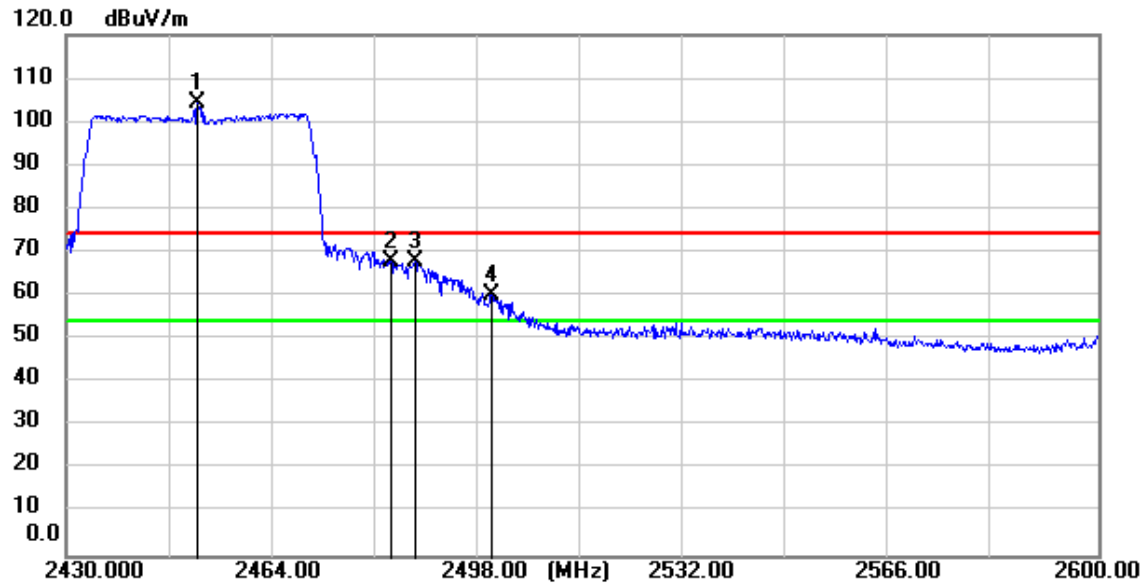


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.840	71.15	-0.80	70.35	74.00	-3.65	peak
2	2390.000	70.89	-0.79	70.10	74.00	-3.90	peak
3	2422.000	104.36	-0.63	103.73	74.00	29.73	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

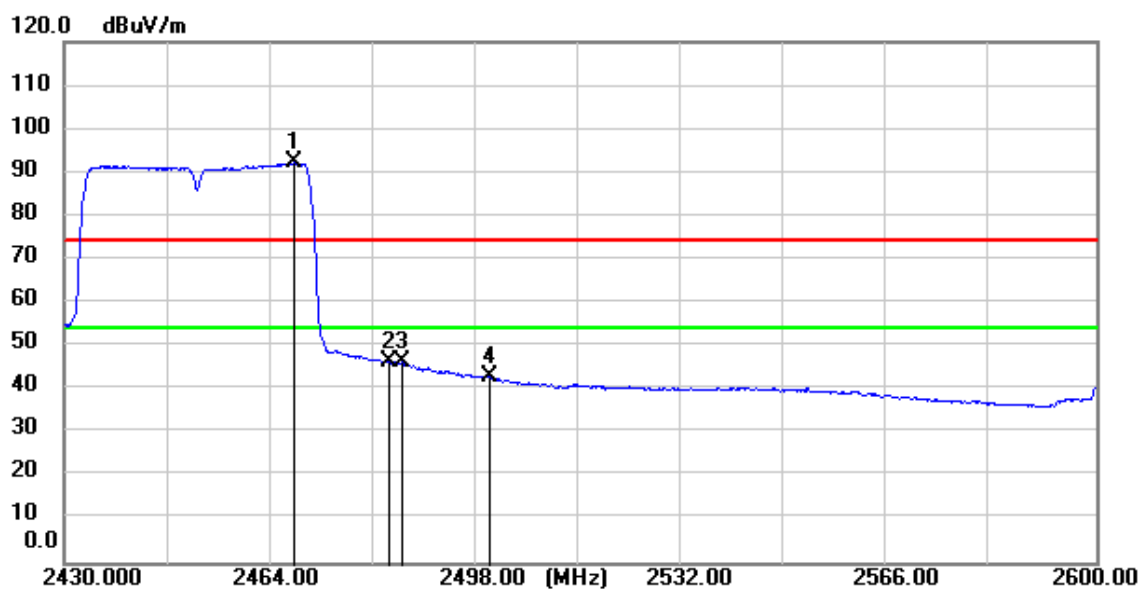


Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



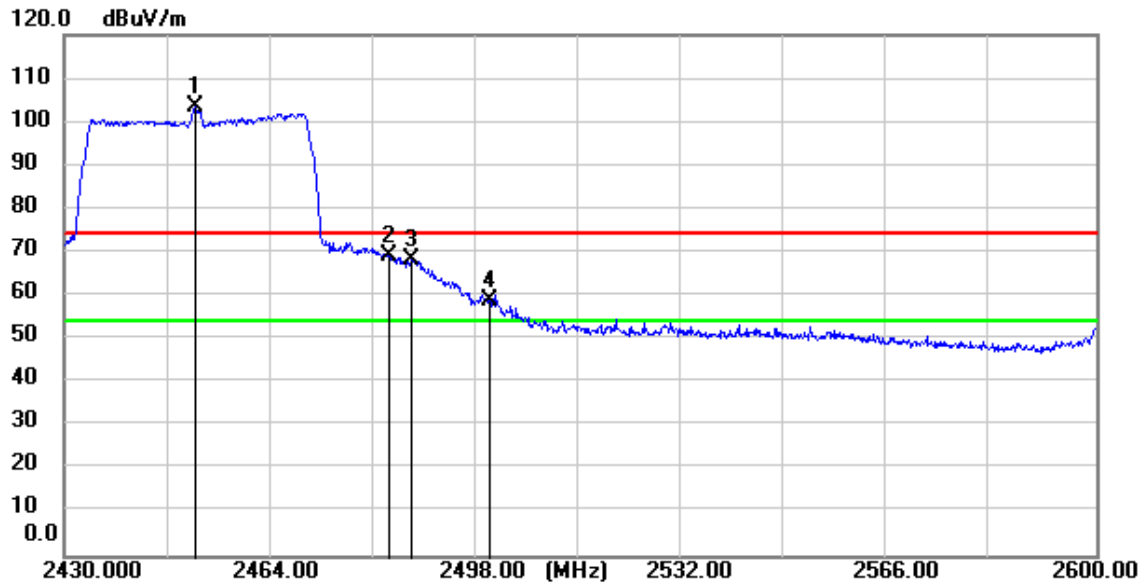
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2451.760	104.75	-0.48	104.27	74.00	30.27	peak
2	2483.500	68.13	-0.33	67.80	74.00	-6.20	peak
3	2487.630	68.18	-0.30	67.88	74.00	-6.12	peak
4	2500.000	60.64	-0.24	60.40	74.00	-13.60	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



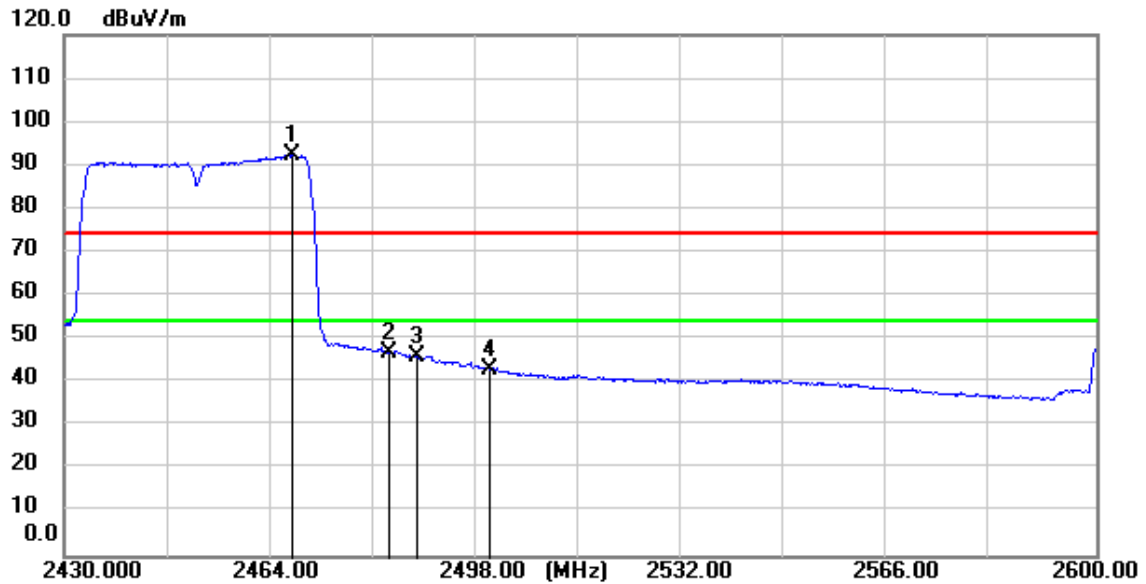
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2467.910	92.68	-0.40	92.28	54.00	38.28	AVG
2	2483.500	46.75	-0.33	46.42	54.00	-7.58	AVG
3	2485.590	46.64	-0.31	46.33	54.00	-7.67	AVG
4	2500.000	43.48	-0.24	43.24	54.00	-10.76	AVG

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



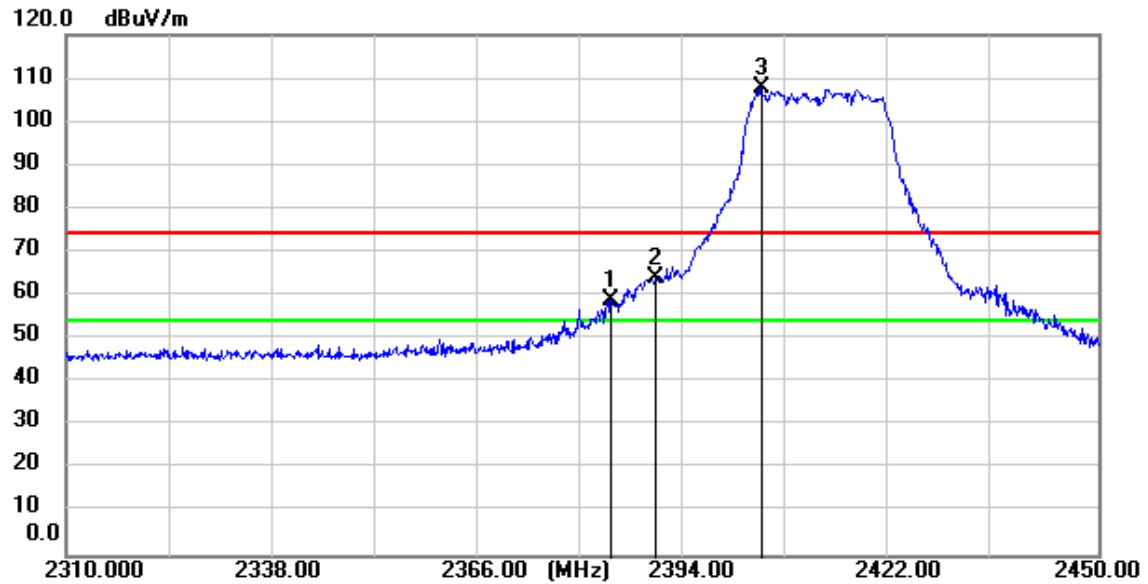
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2451.760	103.91	-0.48	103.43	74.00	29.43	peak
2	2483.500	69.51	-0.33	69.18	74.00	-4.82	peak
3	2487.290	68.49	-0.30	68.19	74.00	-5.81	peak
4	2500.000	59.32	-0.24	59.08	74.00	-14.92	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



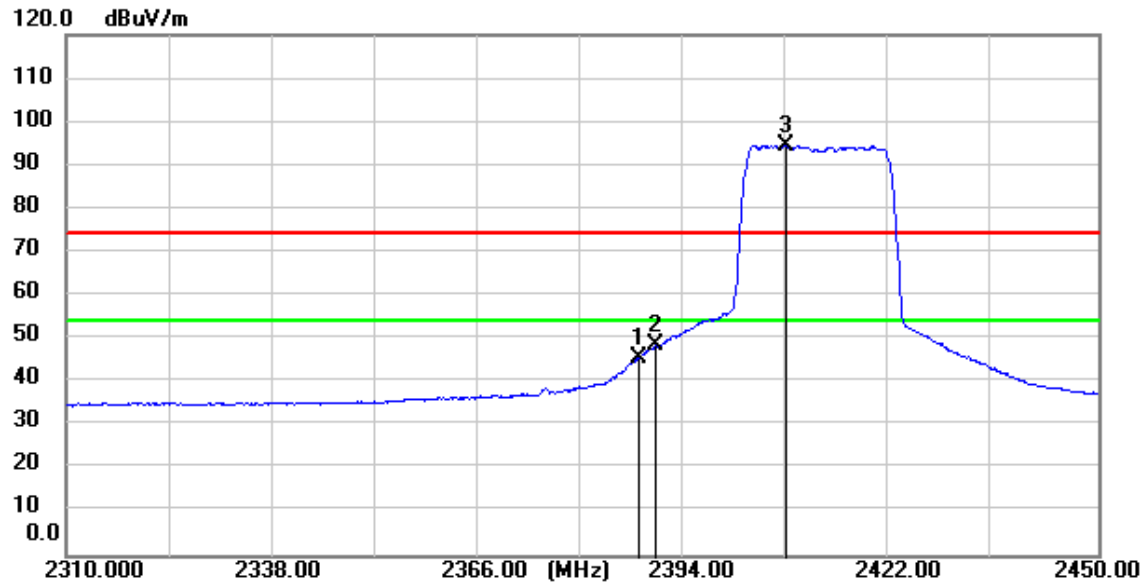
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2467.740	92.88	-0.40	92.48	54.00	38.48	AVG
2	2483.500	47.06	-0.33	46.73	54.00	-7.27	AVG
3	2488.140	46.52	-0.30	46.22	54.00	-7.78	AVG
4	2500.000	43.43	-0.24	43.19	54.00	-10.81	AVG

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



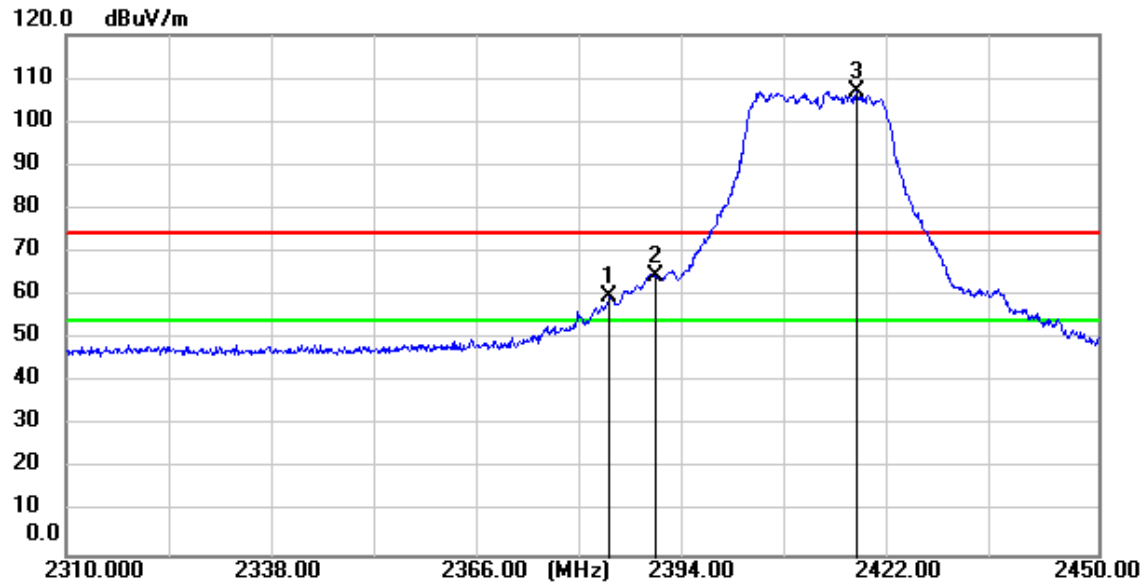
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2383.920	59.85	-0.82	59.03	74.00	-14.97	peak
2	2390.000	64.78	-0.79	63.99	74.00	-10.01	peak
3	2404.360	108.52	-0.72	107.80	74.00	33.80	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



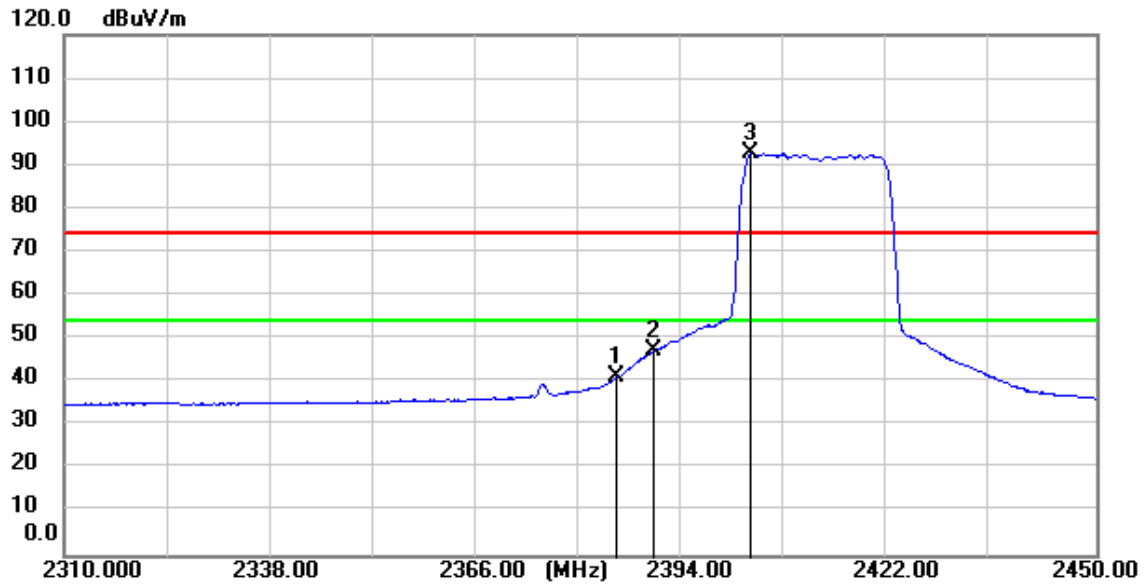
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.700	46.60	-0.80	45.80	54.00	-8.20	AVG
2	2390.000	49.22	-0.79	48.43	54.00	-5.57	AVG
3	2407.580	95.28	-0.70	94.58	54.00	40.58	AVG

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



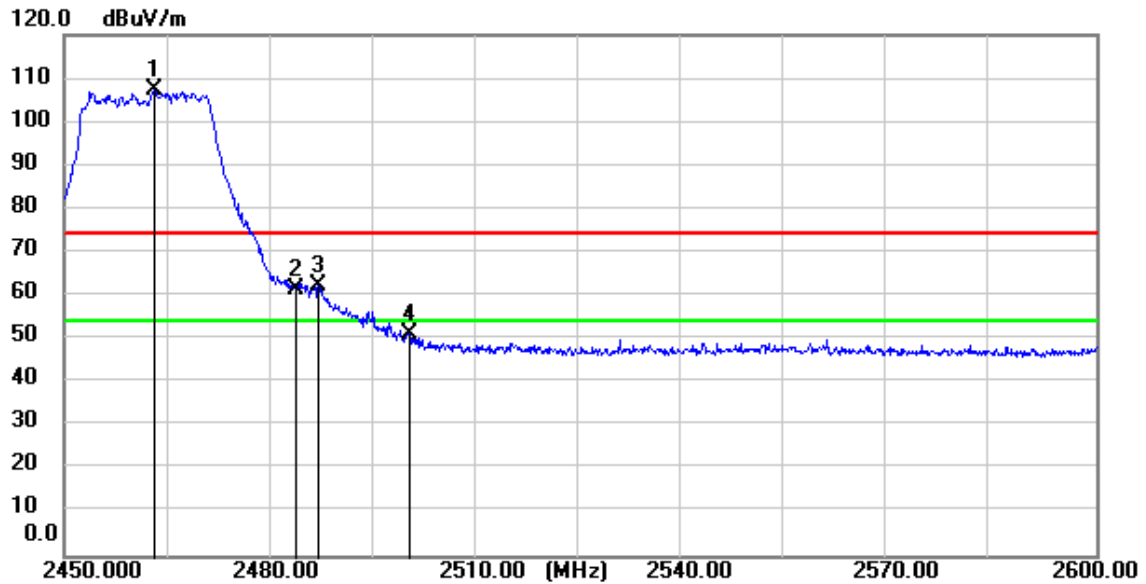
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2383.780	60.62	-0.82	59.80	74.00	-14.20	peak
2	2390.000	65.17	-0.79	64.38	74.00	-9.62	peak
3	2417.380	107.67	-0.65	107.02	74.00	33.02	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



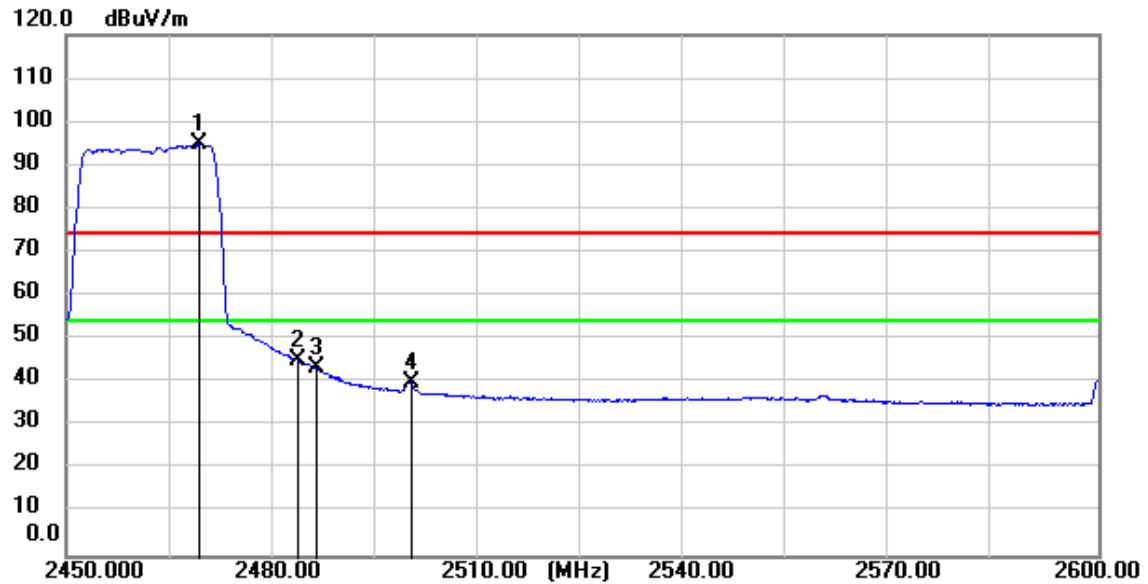
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.900	42.01	-0.82	41.19	54.00	-12.81	AVG
2	2390.000	48.02	-0.79	47.23	54.00	-6.77	AVG
3	2403.240	93.40	-0.73	92.67	54.00	38.67	AVG

Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: High



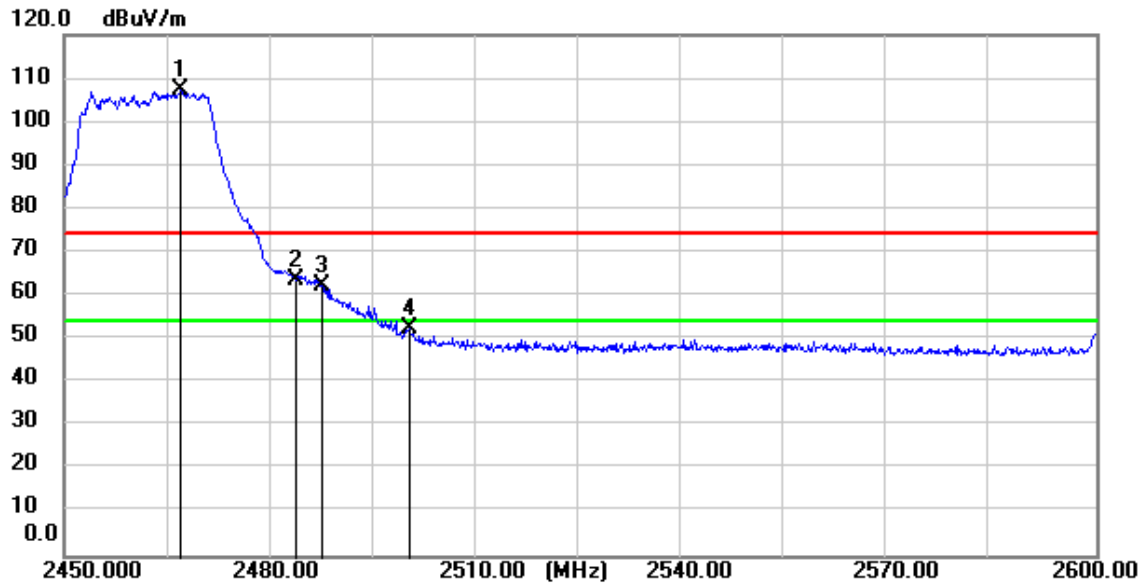
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.200	107.65	-0.43	107.22	74.00	33.22	peak
2	2483.500	61.72	-0.33	61.39	74.00	-12.61	peak
3	2486.900	62.85	-0.30	62.55	74.00	-11.45	peak
4	2500.000	51.44	-0.24	51.20	74.00	-22.80	peak

Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: High



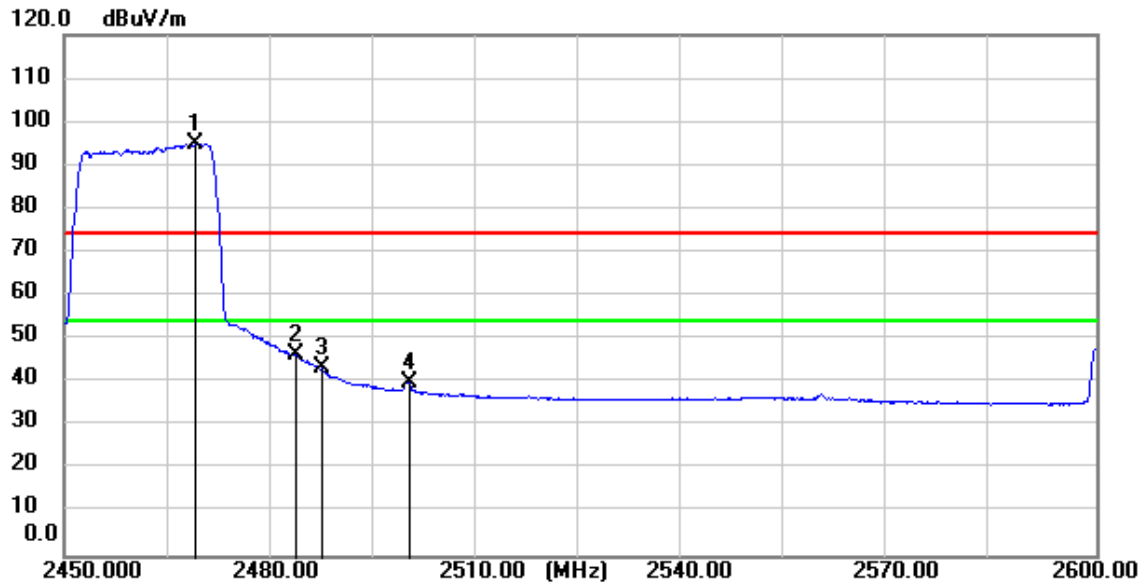
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2469.350	95.33	-0.39	94.94	54.00	40.94	AVG
2	2483.500	45.60	-0.33	45.27	54.00	-8.73	AVG
3	2486.450	43.67	-0.30	43.37	54.00	-10.63	AVG
4	2500.000	40.21	-0.24	39.97	54.00	-14.03	AVG

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



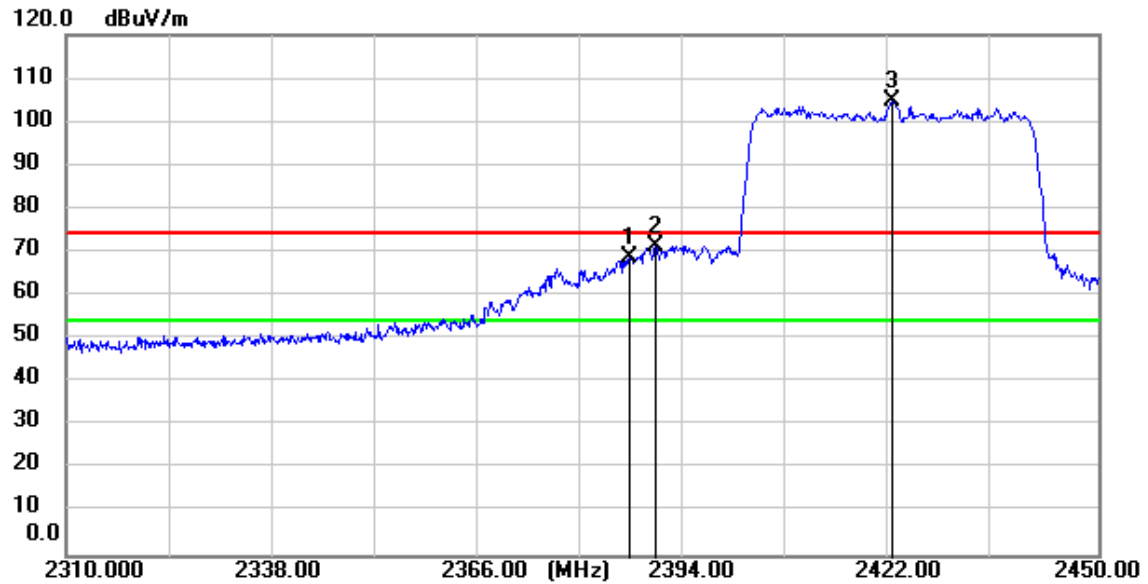
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2466.950	107.68	-0.40	107.28	74.00	33.28	peak
2	2483.500	63.95	-0.33	63.62	74.00	-10.38	peak
3	2487.500	62.76	-0.30	62.46	74.00	-11.54	peak
4	2500.000	52.58	-0.24	52.34	74.00	-21.66	peak

Test Mode: 00; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: High



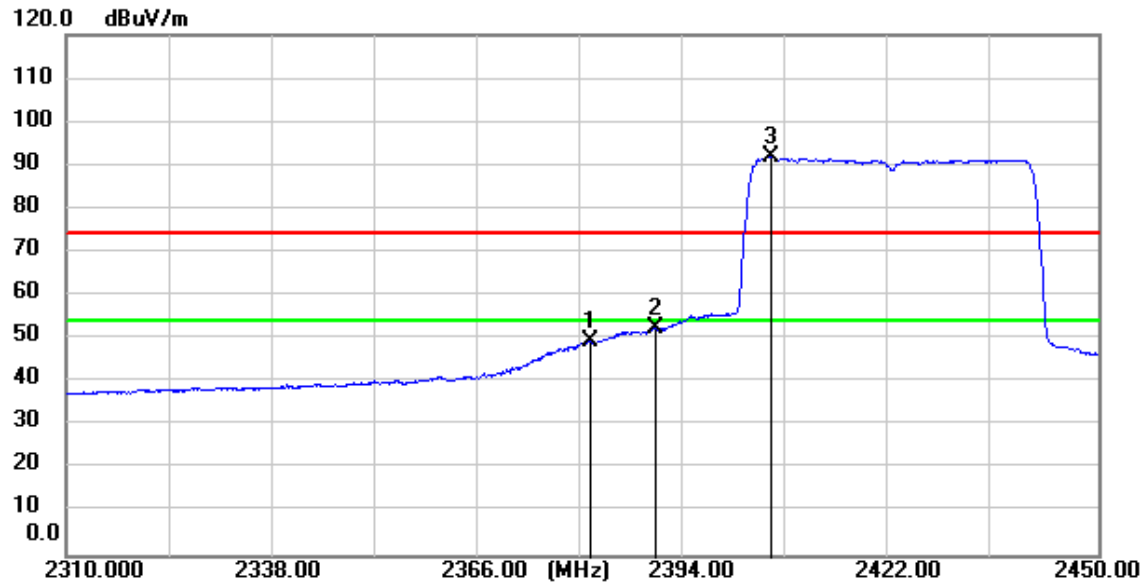
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2469.200	95.41	-0.39	95.02	54.00	41.02	AVG
2	2483.500	46.67	-0.33	46.34	54.00	-7.66	AVG
3	2487.500	43.62	-0.30	43.32	54.00	-10.68	AVG
4	2500.000	40.25	-0.24	40.01	54.00	-13.99	AVG

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low

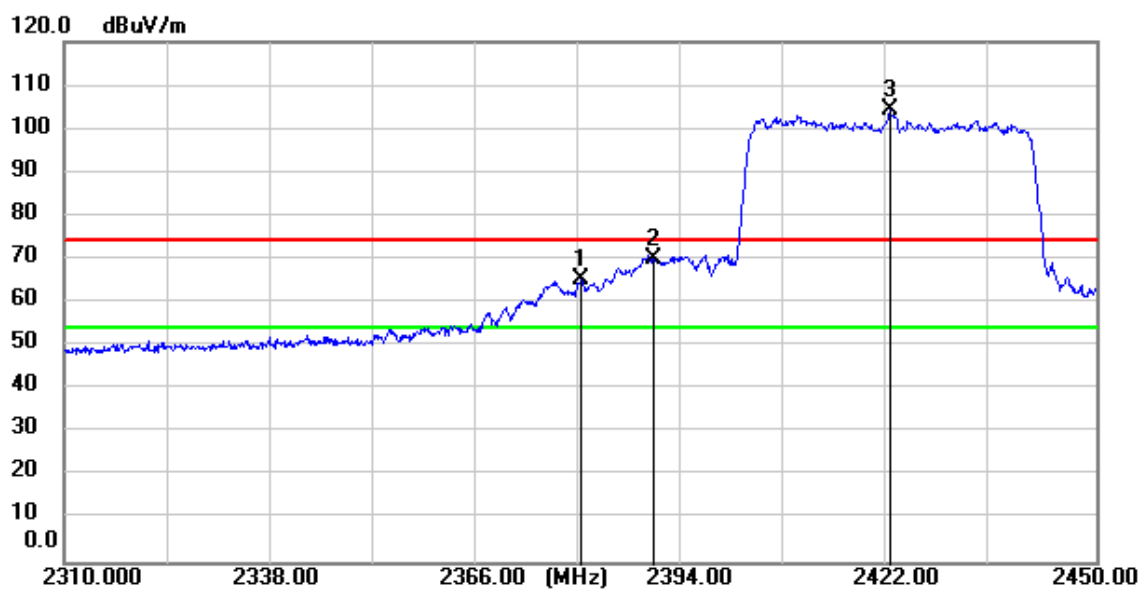


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.440	69.62	-0.80	68.82	74.00	-5.18	peak
2	2390.000	72.03	-0.79	71.24	74.00	-2.76	peak
3	2422.140	105.29	-0.63	104.66	74.00	30.66	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low

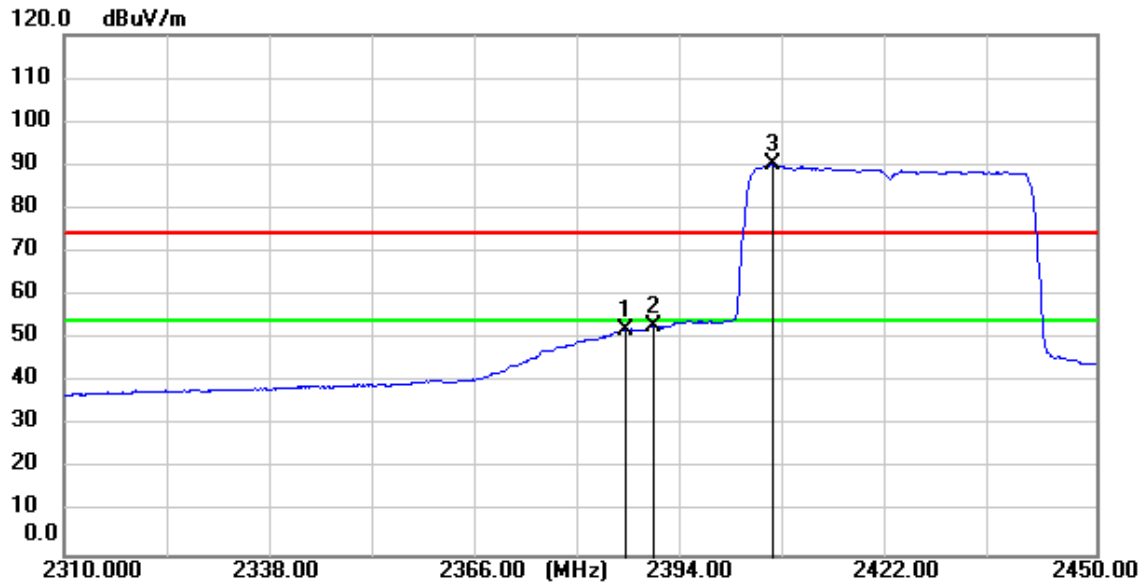


Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low

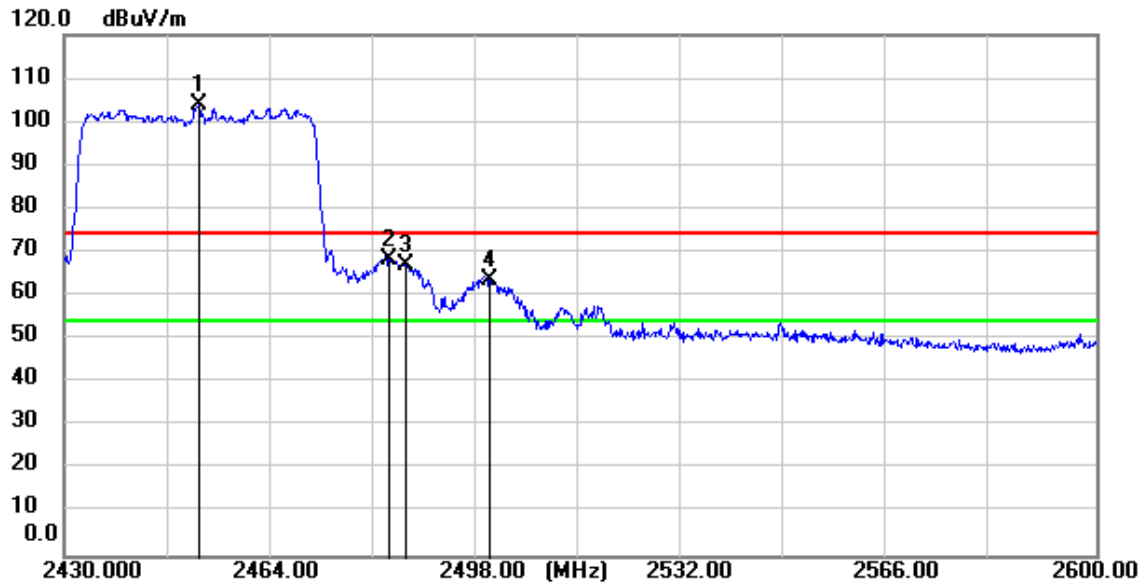


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2380.140	66.20	-0.84	65.36	74.00	-8.64	peak
2	2390.000	70.95	-0.79	70.16	74.00	-3.84	peak
3	2422.000	104.89	-0.63	104.26	74.00	30.26	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low

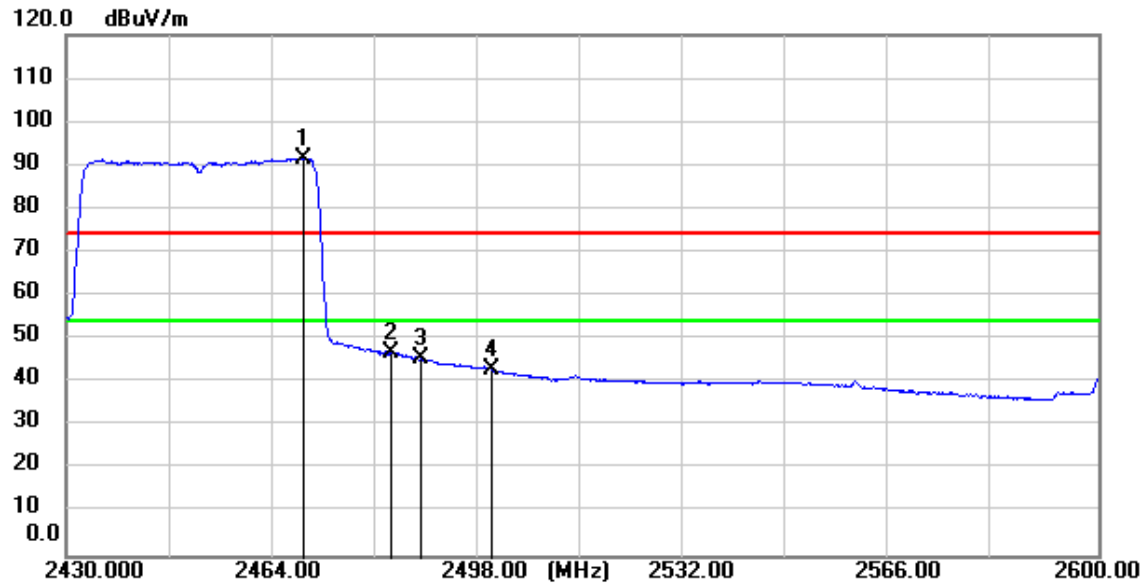


Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: High



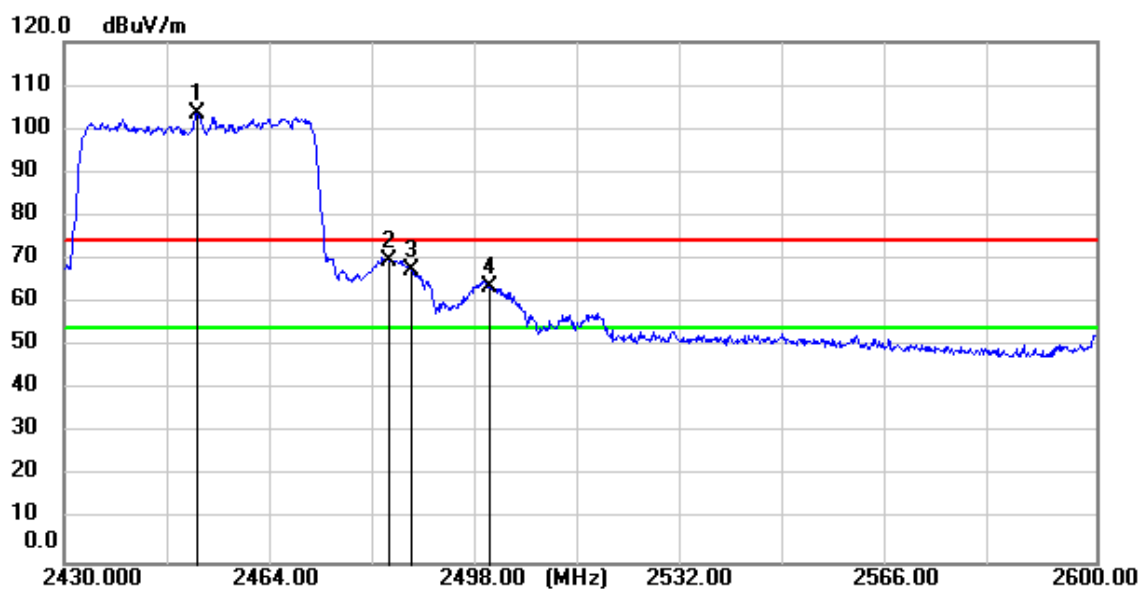
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2452.100	104.57	-0.48	104.09	74.00	30.09	peak
2	2483.500	68.55	-0.33	68.22	74.00	-5.78	peak
3	2486.270	67.58	-0.31	67.27	74.00	-6.73	peak
4	2500.000	64.02	-0.24	63.78	74.00	-10.22	peak

Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: High



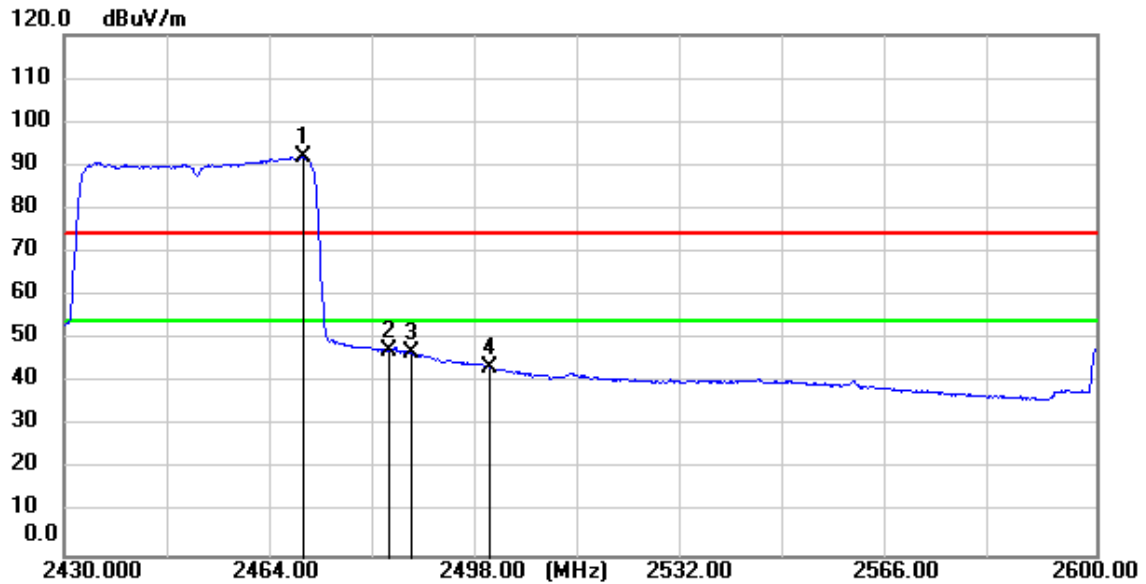
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2469.100	92.04	-0.39	91.65	54.00	37.65	AVG
2	2483.500	47.42	-0.33	47.09	54.00	-6.91	AVG
3	2488.310	45.81	-0.30	45.51	54.00	-8.49	AVG
4	2500.000	43.52	-0.24	43.28	54.00	-10.72	AVG

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2451.930	104.18	-0.48	103.70	74.00	29.70	peak
2	2483.500	70.18	-0.33	69.85	74.00	-4.15	peak
3	2487.120	67.91	-0.30	67.61	74.00	-6.39	peak
4	2500.000	63.94	-0.24	63.70	74.00	-10.30	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2469.440	92.44	-0.39	92.05	54.00	38.05	AVG
2	2483.500	47.83	-0.33	47.50	54.00	-6.50	AVG
3	2487.120	47.28	-0.30	46.98	54.00	-7.02	AVG
4	2500.000	43.83	-0.24	43.59	54.00	-10.41	AVG

7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Limit:

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
960-1000	500	3

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.1 °C

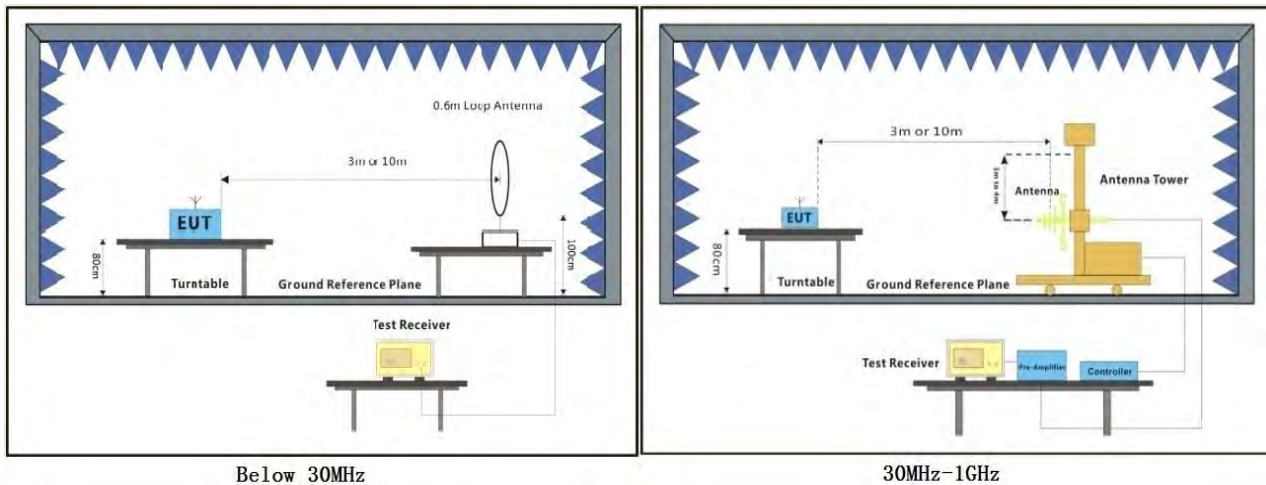
Humidity: 52.1 % RH

Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark:

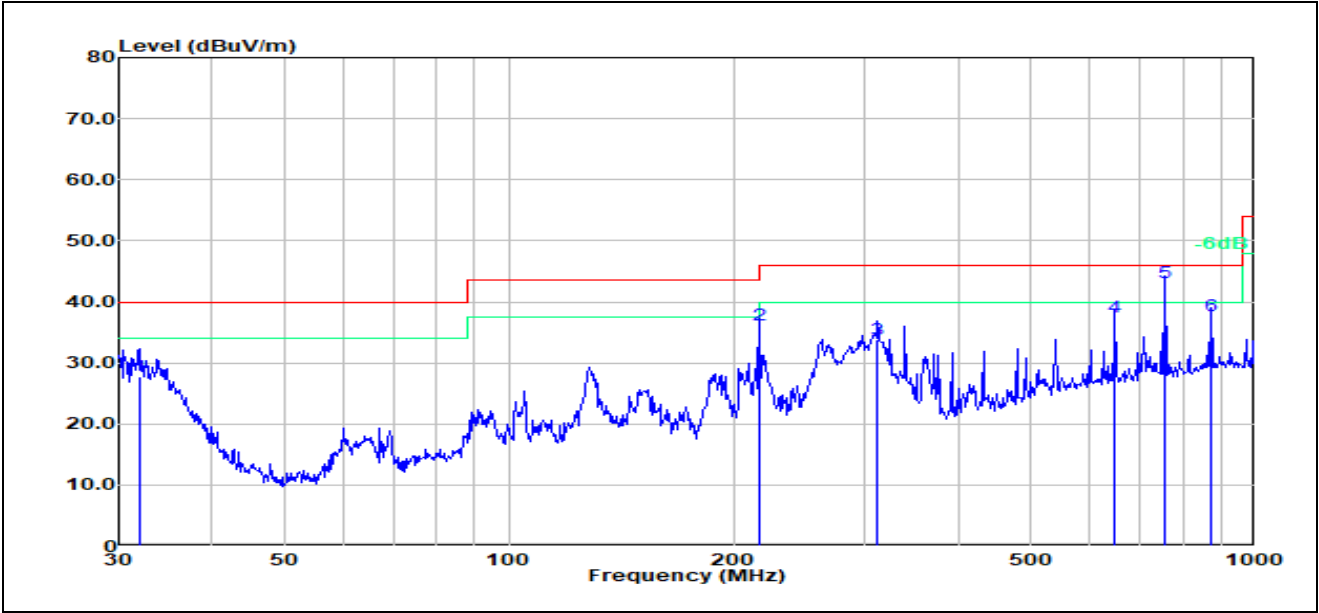
- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



WLAN 0

Test Mode: 00; Polarity: Horizontal WLAN 0

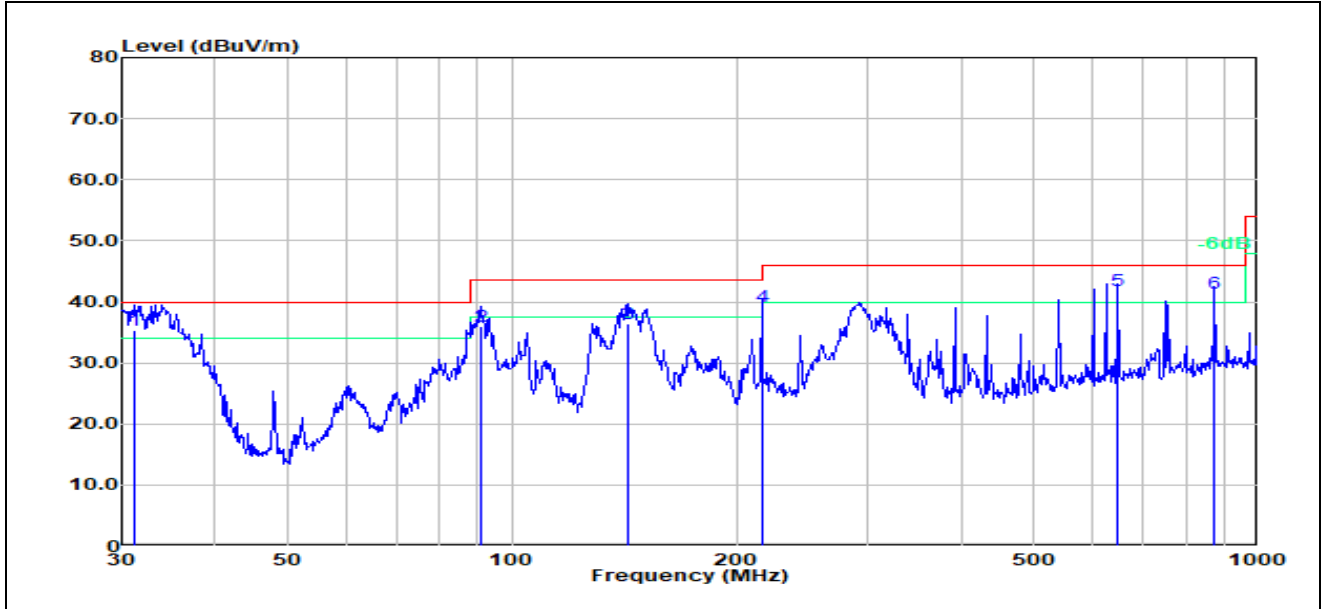
Test Data :



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	31.9550	10.01	17.68	27.69	40.00	-12.31	100	17	QP
2	216.0240	23.78	12.39	36.17	46.00	-9.83	200	300	QP
3	312.1790	17.89	15.92	33.81	46.00	-12.19	200	267	QP
4	649.6600	14.01	23.57	37.58	46.00	-8.42	100	320	QP
5	758.0410	19.34	23.78	43.12	46.00	-2.88	200	334	QP
6	875.2470	12.47	25.26	37.73	46.00	-8.27	100	328	QP

Test Mode: 00; Polarity: Vertical

Test Data :

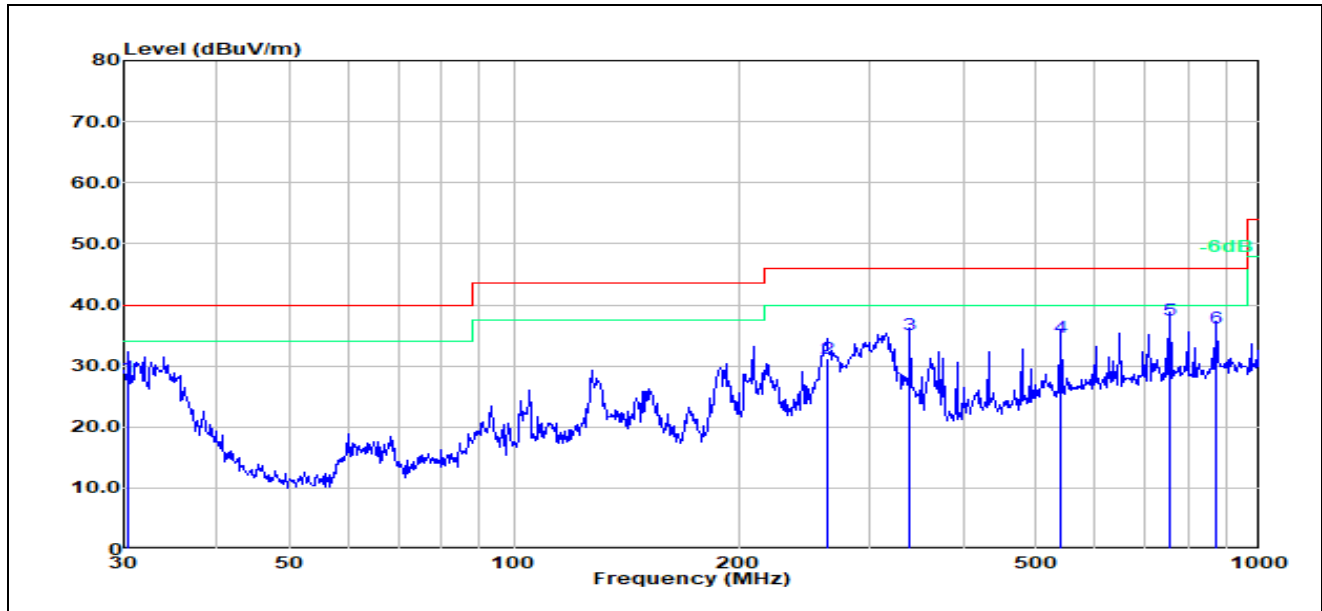


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	31.2893	17.02	18.34	35.36	40.00	-4.64	100	72	QP
2	90.8554	23.73	12.17	35.90	43.50	-7.60	100	66	QP
3	142.8244	22.76	13.72	36.48	43.50	-7.02	100	356	QP
4	216.0240	26.78	12.39	39.17	46.00	-6.83	100	360	QP
5	649.6597	18.23	23.57	41.80	46.00	-4.20	100	288	QP
6	875.2469	16.09	25.26	41.35	46.00	-4.65	100	350	QP

WLAN 1

Test Mode: 00; Polarity: Horizontal

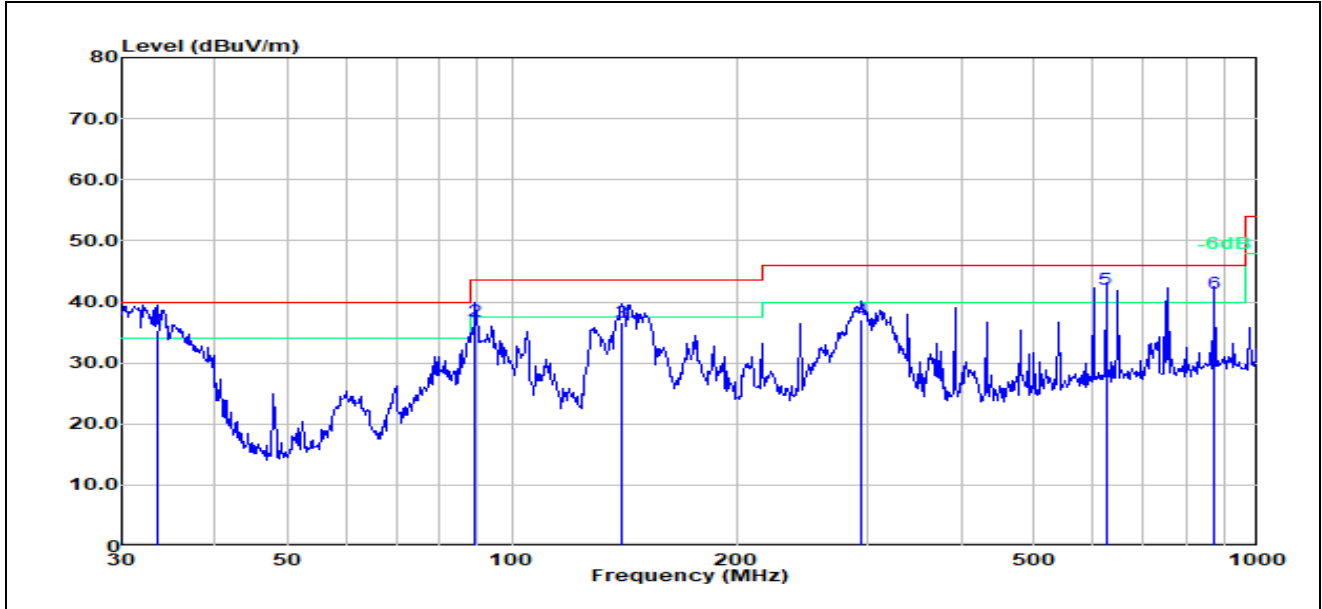
Test Data :



No.	Frequency (MHz)	Reading (dBUV)	Correct Factor(dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.4240	9.13	19.08	28.21	40.00	-11.79	100	328	QP
2	262.8960	16.34	14.80	31.14	46.00	-14.86	200	341	QP
3	339.5890	18.77	16.30	35.07	46.00	-10.93	200	287	QP
4	541.3730	12.96	21.75	34.71	46.00	-11.29	100	165	QP
5	758.0410	13.81	23.78	37.59	46.00	-8.41	200	328	QP
6	875.2470	11.03	25.26	36.29	46.00	-9.71	100	320	QP

Test Mode: 00; Polarity: Vertical

Test Data :



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	33.4450	18.21	17.14	35.35	40.00	-4.65	100	30	QP
2	89.2764	25.19	11.71	36.90	43.50	-6.60	100	90	QP
3	140.3421	22.17	14.39	36.56	43.50	-6.94	100	360	QP
4	293.0842	21.38	15.65	37.03	46.00	-8.97	100	71	QP
5	625.0781	19.21	22.91	42.12	46.00	-3.88	100	207	QP
6	875.2469	16.13	25.26	41.39	46.00	-4.61	100	343	QP

7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C

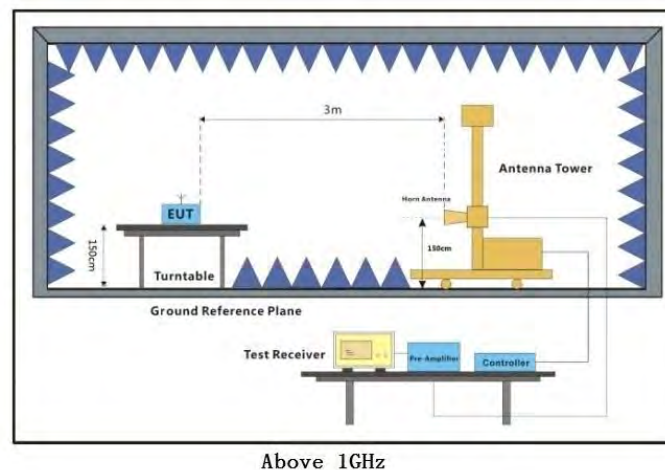
Humidity: 51.9 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

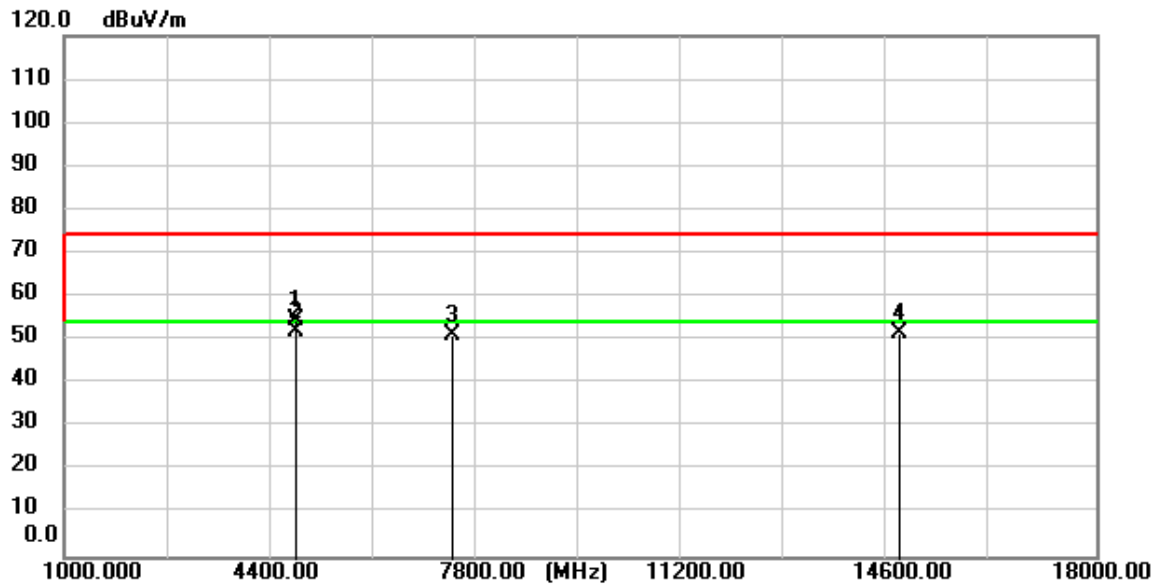
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle<98%) or 10Hz (Duty cycle $\geq$ 98%) for Average detection (AV) at frequency above 1GHz.

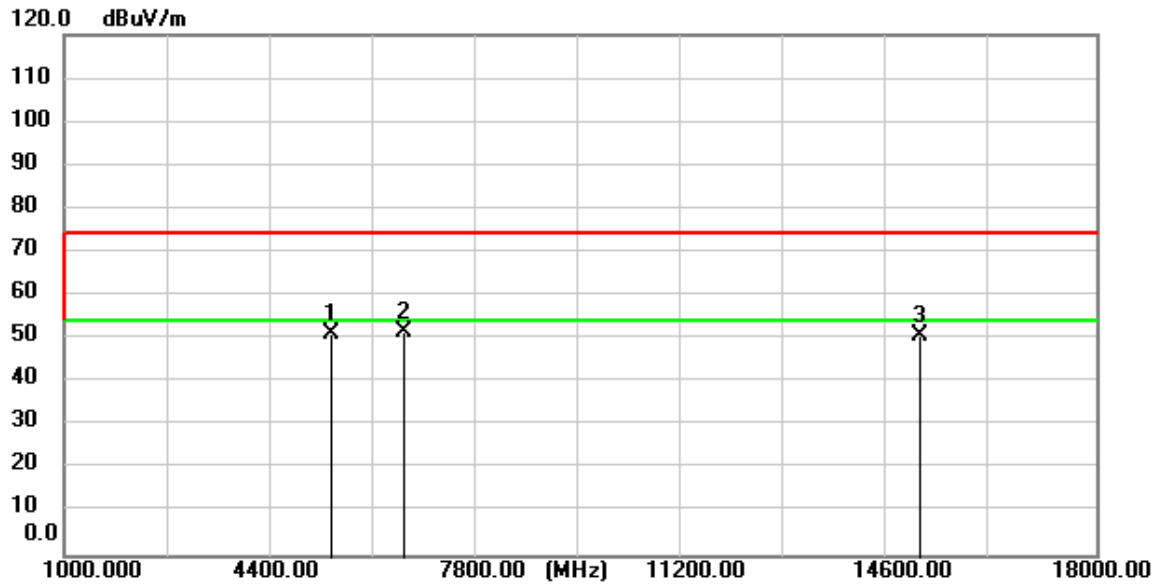
WLAN 0

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



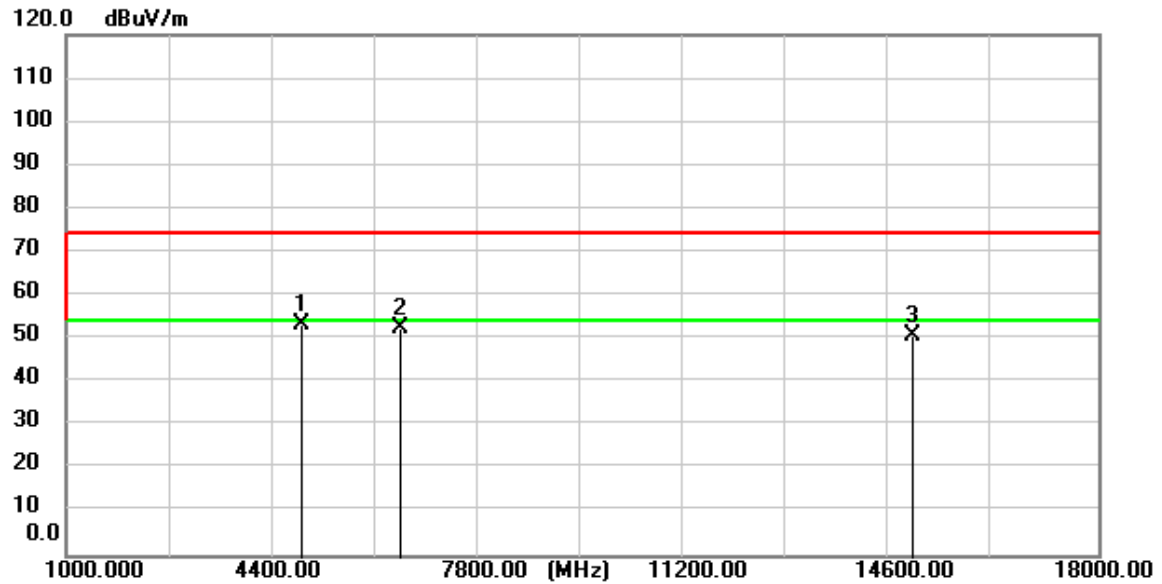
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.150	67.53	-13.09	54.44	74.00	-19.56	peak
2	4824.150	65.18	-13.09	52.09	54.00	-1.91	AVG
3	7399.650	57.50	-6.41	51.09	74.00	-22.91	peak
4	14760.650	53.86	-2.24	51.62	74.00	-22.38	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



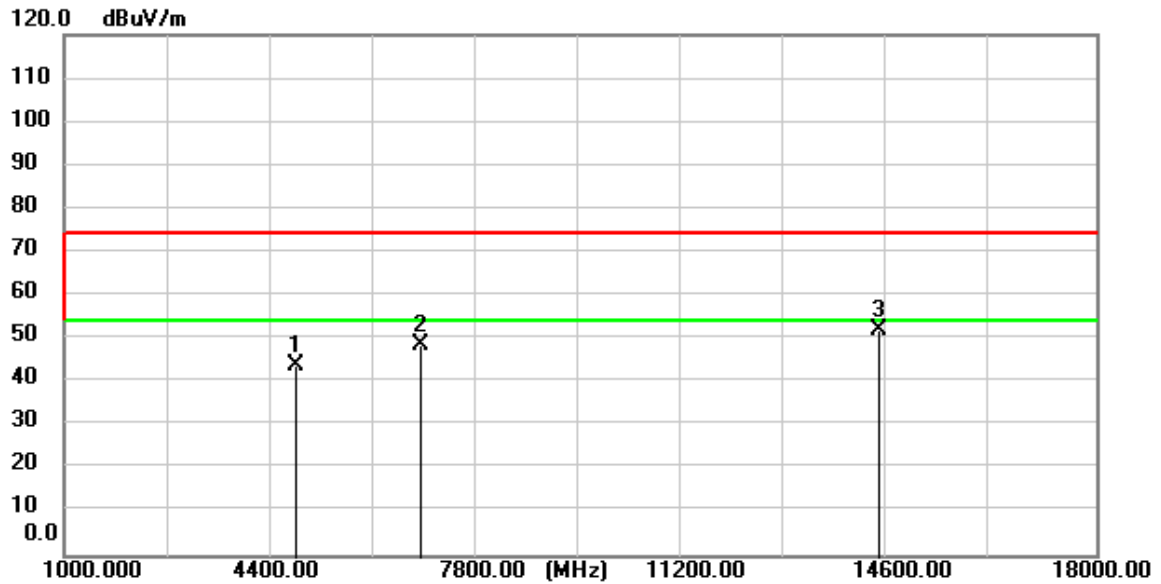
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5400.450	63.46	-12.36	51.10	74.00	-22.90	peak
2	6599.800	59.32	-7.76	51.56	74.00	-22.44	peak
3	15097.250	54.05	-3.37	50.68	74.00	-23.32	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



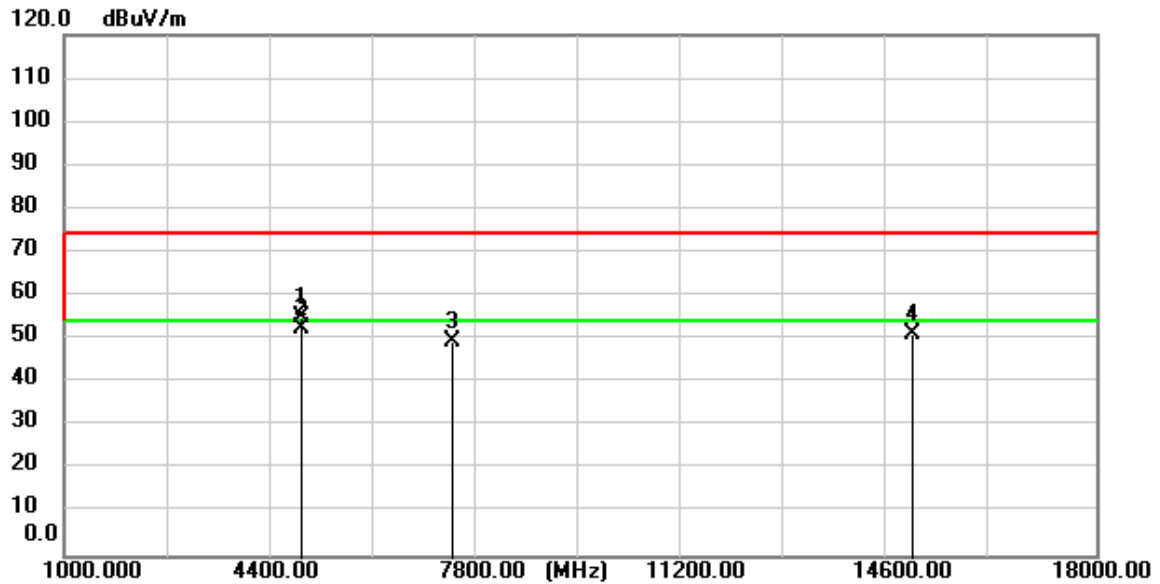
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4873.450	66.19	-13.03	53.16	74.00	-20.84	peak
2	6497.800	60.77	-8.23	52.54	74.00	-21.46	peak
3	14955.300	53.49	-2.90	50.59	74.00	-23.41	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



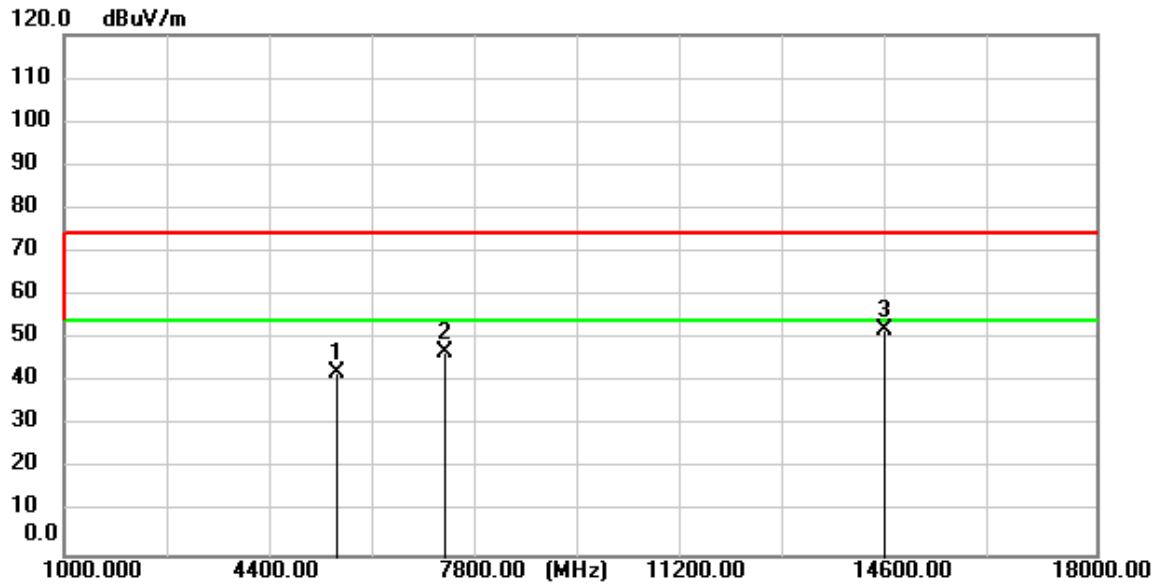
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4799.500	56.88	-13.12	43.76	74.00	-30.24	peak
2	6872.650	55.45	-7.01	48.44	74.00	-25.56	peak
3	14400.250	53.00	-1.02	51.98	74.00	-22.02	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



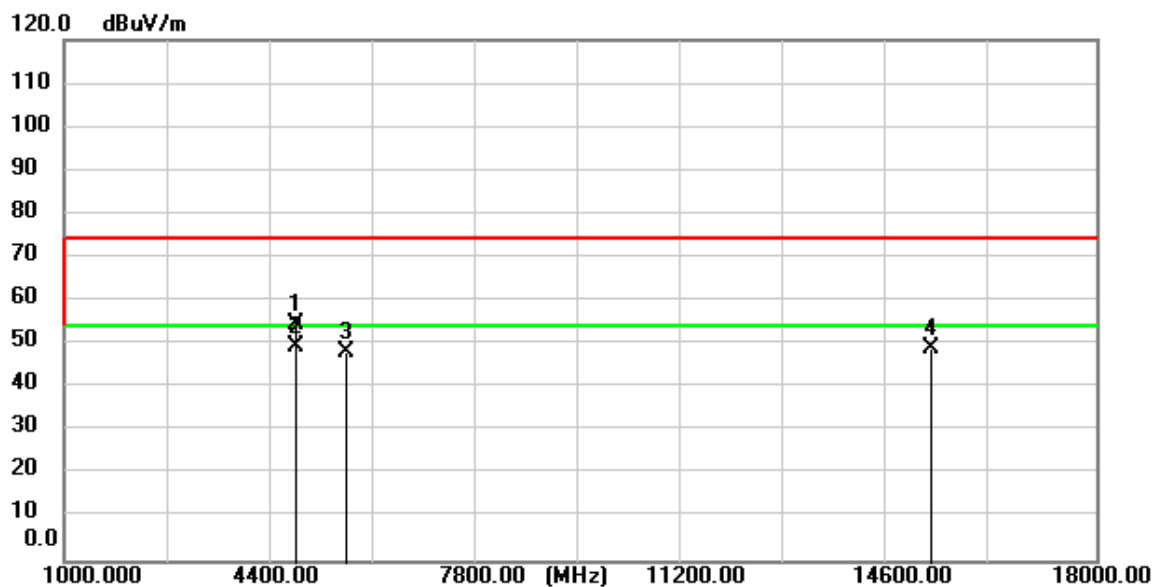
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4923.600	67.88	-12.96	54.92	74.00	-19.08	peak
2	4923.600	65.53	-12.96	52.57	54.00	-1.43	AVG
3	7399.650	55.89	-6.41	49.48	74.00	-24.52	peak
4	14979.100	54.07	-2.98	51.09	74.00	-22.91	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



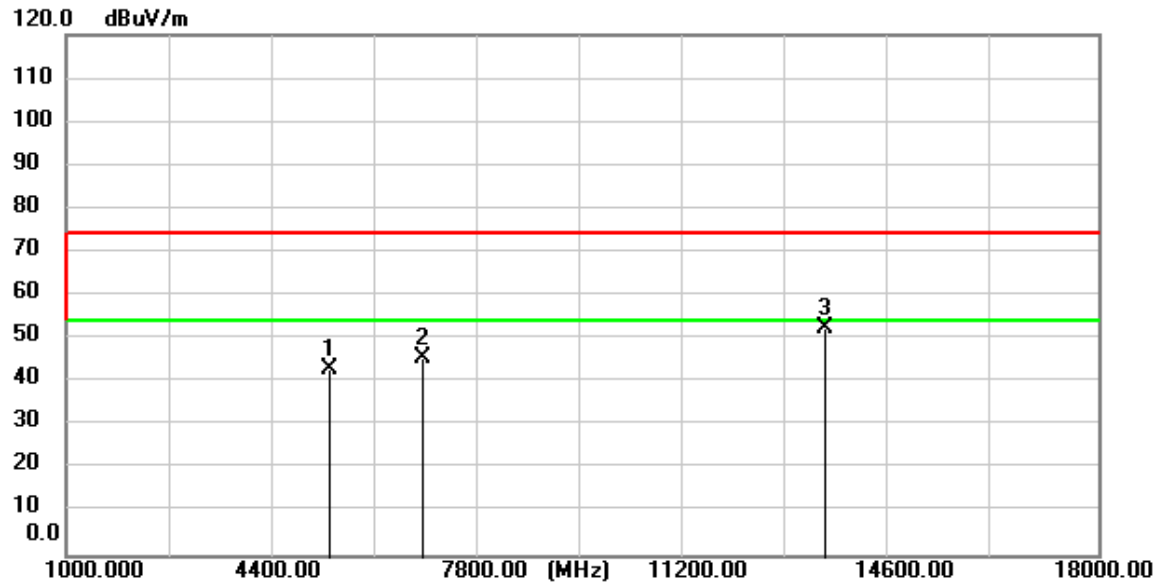
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5482.900	54.54	-12.26	42.28	74.00	-31.72	peak
2	7273.850	53.44	-6.55	46.89	74.00	-27.11	peak
3	14509.900	53.30	-1.41	51.89	74.00	-22.11	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



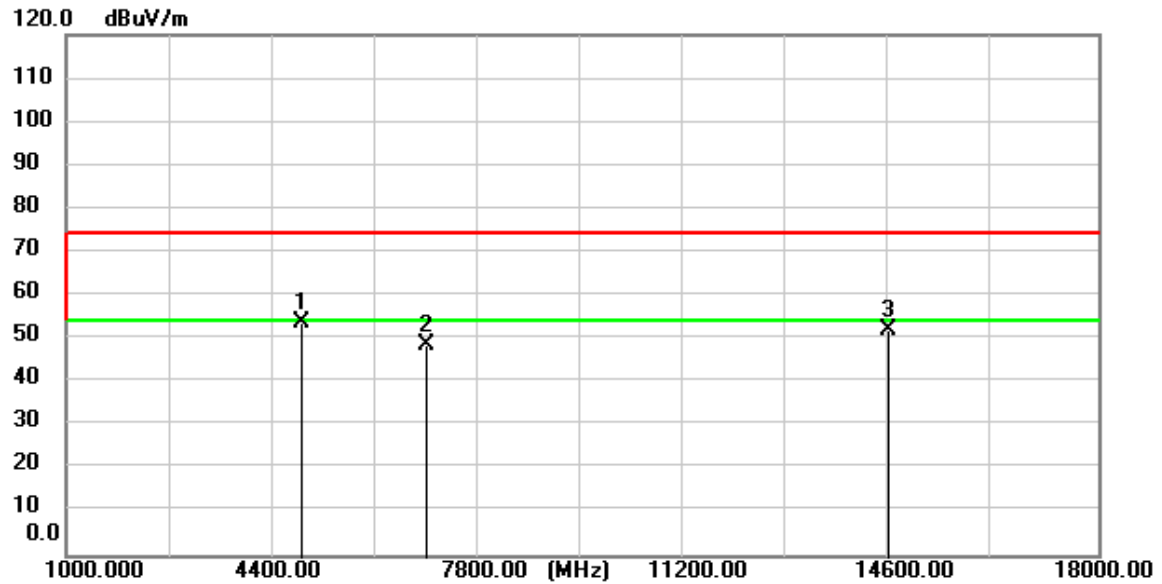
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.150	67.72	-13.09	54.63	74.00	-19.37	peak
2	4824.150	62.45	-13.09	49.36	54.00	-4.64	AVG
3	5630.800	60.24	-11.90	48.34	74.00	-25.66	peak
4	15263.850	52.83	-3.94	48.89	74.00	-25.11	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



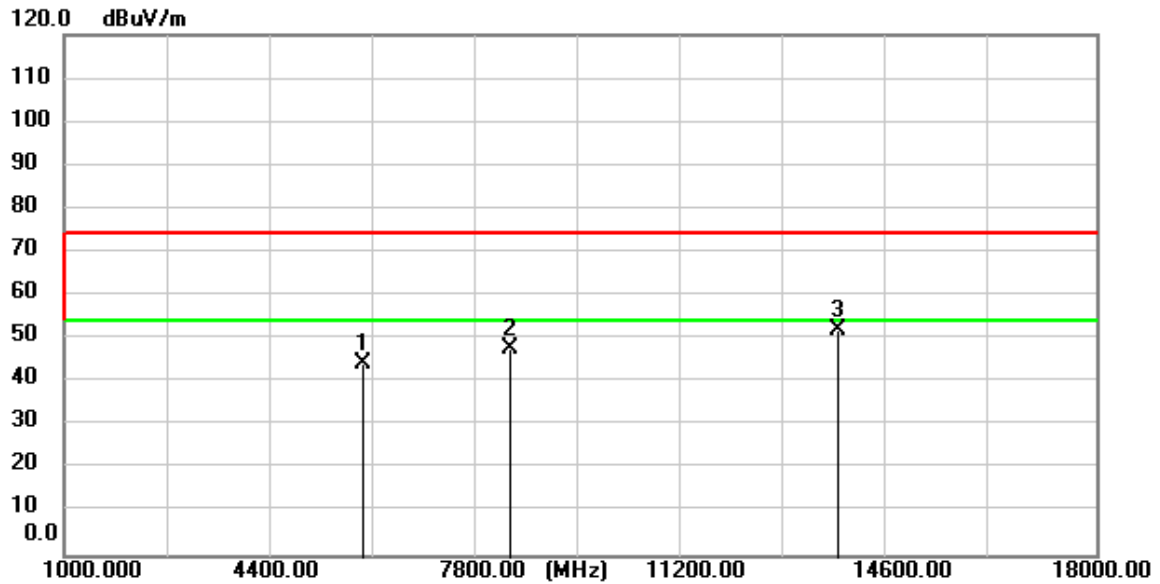
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.300	55.29	-12.42	42.87	74.00	-31.13	peak
2	6864.150	52.70	-7.02	45.68	74.00	-28.32	peak
3	13482.250	52.14	0.29	52.43	74.00	-21.57	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



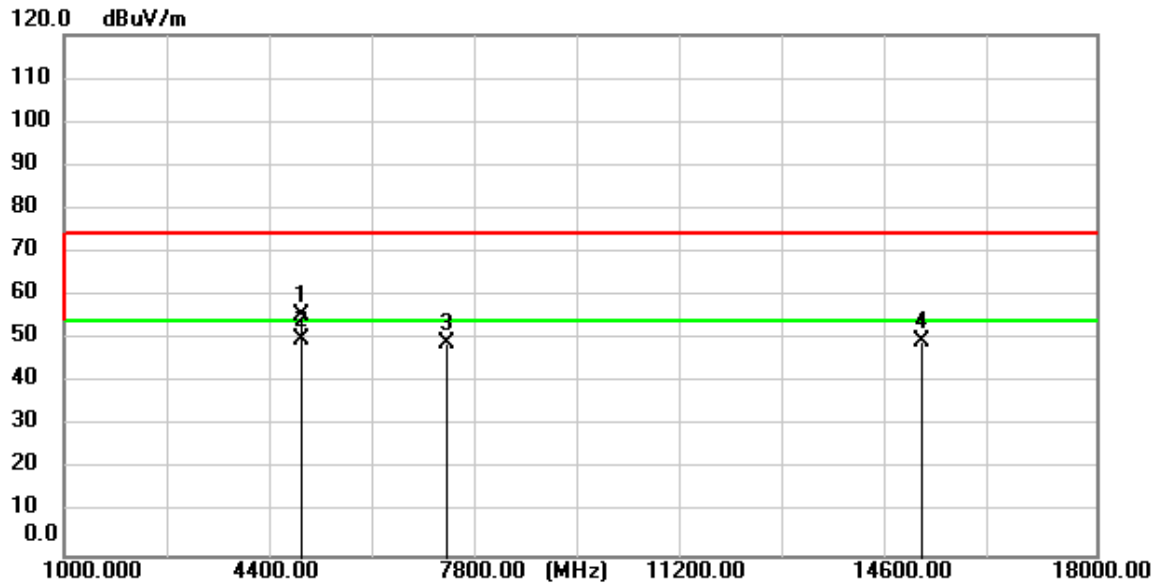
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.300	66.64	-13.02	53.62	74.00	-20.38	peak
2	6950.000	55.67	-6.93	48.74	74.00	-25.26	peak
3	14542.200	53.47	-1.52	51.95	74.00	-22.05	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



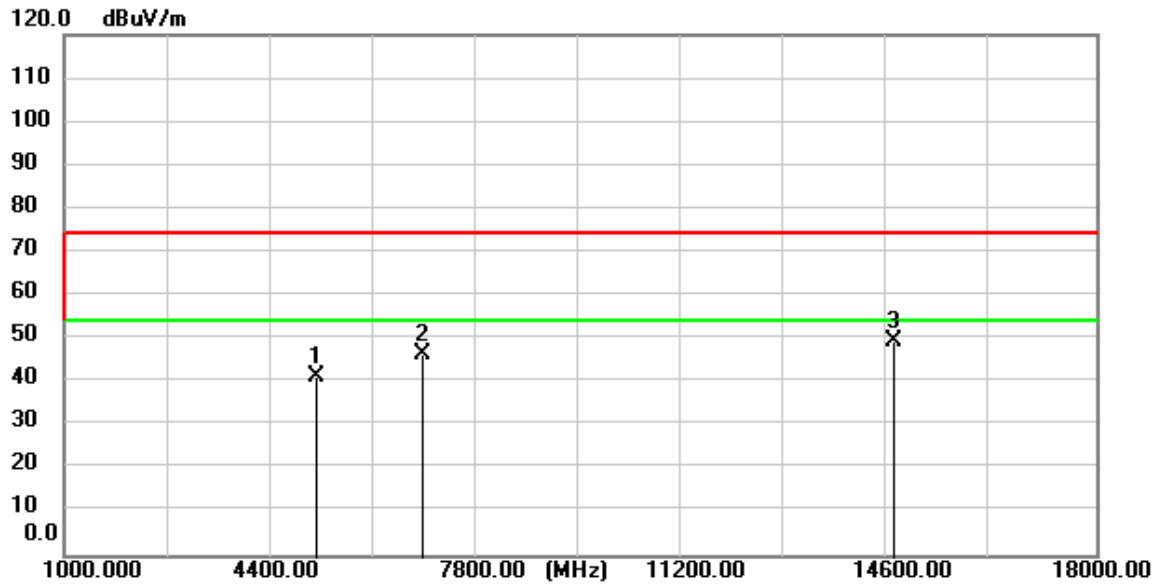
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5921.500	55.15	-10.79	44.36	74.00	-29.64	peak
2	8328.700	52.62	-4.63	47.99	74.00	-26.01	peak
3	13742.350	51.62	0.49	52.11	74.00	-21.89	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



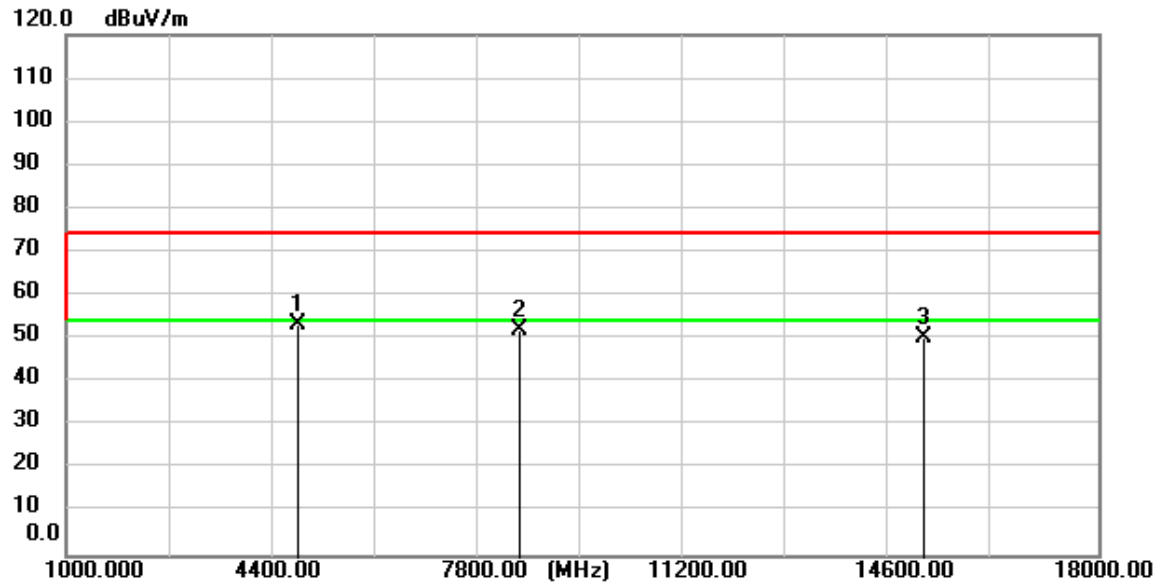
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.450	68.51	-12.95	55.56	74.00	-18.44	peak
2	4924.450	62.88	-12.95	49.93	54.00	-4.07	AVG
3	7296.800	55.40	-6.53	48.87	74.00	-25.13	peak
4	15131.250	53.13	-3.49	49.64	74.00	-24.36	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



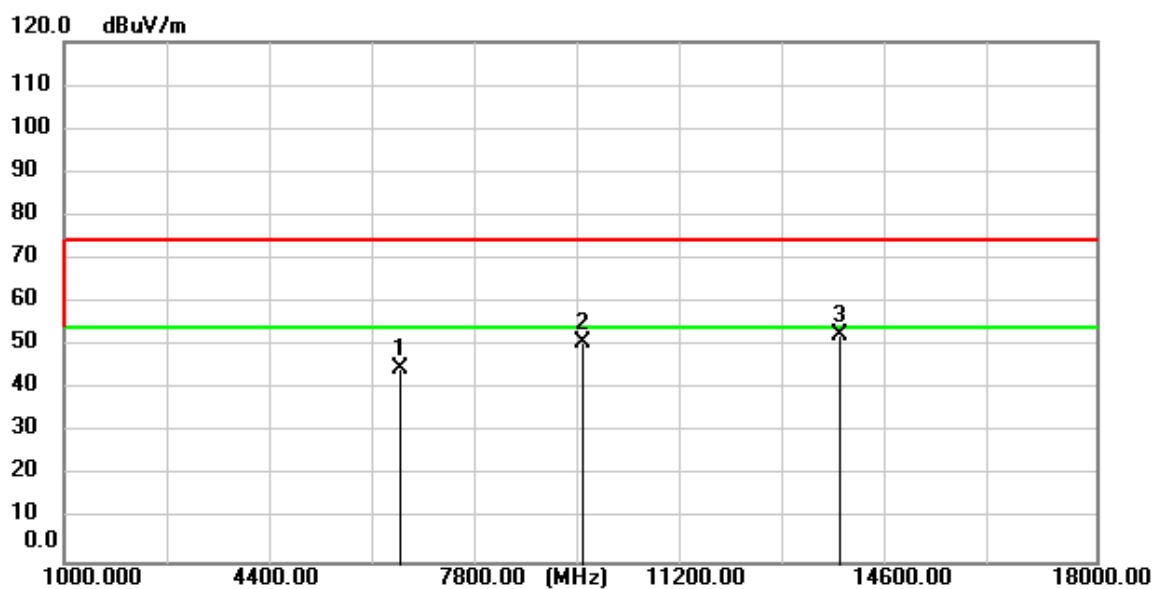
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5147.150	53.96	-12.66	41.30	74.00	-32.70	peak
2	6903.250	53.29	-6.98	46.31	74.00	-27.69	peak
3	14684.150	51.51	-1.99	49.52	74.00	-24.48	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



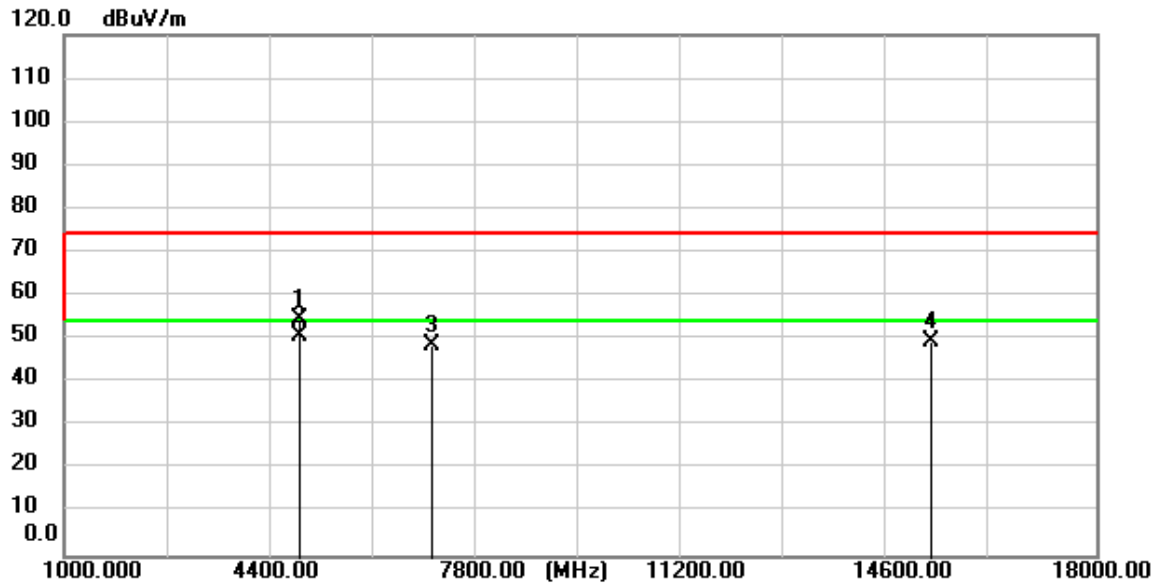
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.150	66.40	-13.09	53.31	74.00	-20.69	peak
2	8474.900	56.57	-4.40	52.17	74.00	-21.83	peak
3	15132.100	53.72	-3.50	50.22	74.00	-23.78	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



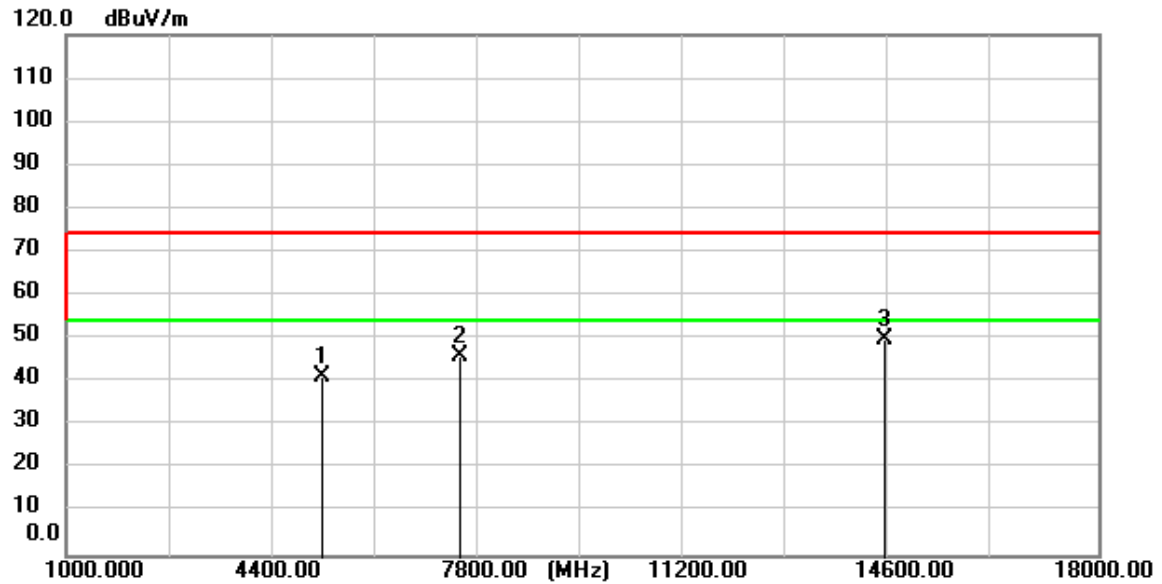
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6522.450	52.94	-8.12	44.82	74.00	-29.18	peak
2	9525.500	52.94	-2.29	50.65	74.00	-23.35	peak
3	13769.550	52.05	0.50	52.55	74.00	-21.45	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



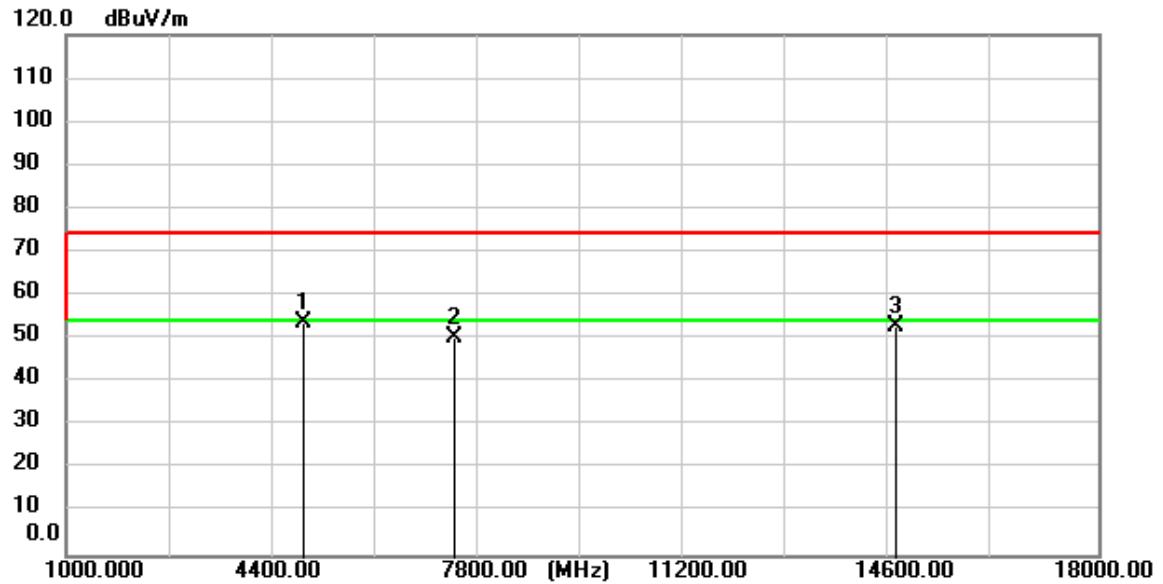
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.300	67.85	-13.02	54.83	74.00	-19.17	peak
2	4874.300	63.65	-13.02	50.63	54.00	-3.37	AVG
3	7040.100	55.61	-6.82	48.79	74.00	-25.21	peak
4	15278.300	53.32	-3.99	49.33	74.00	-24.67	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



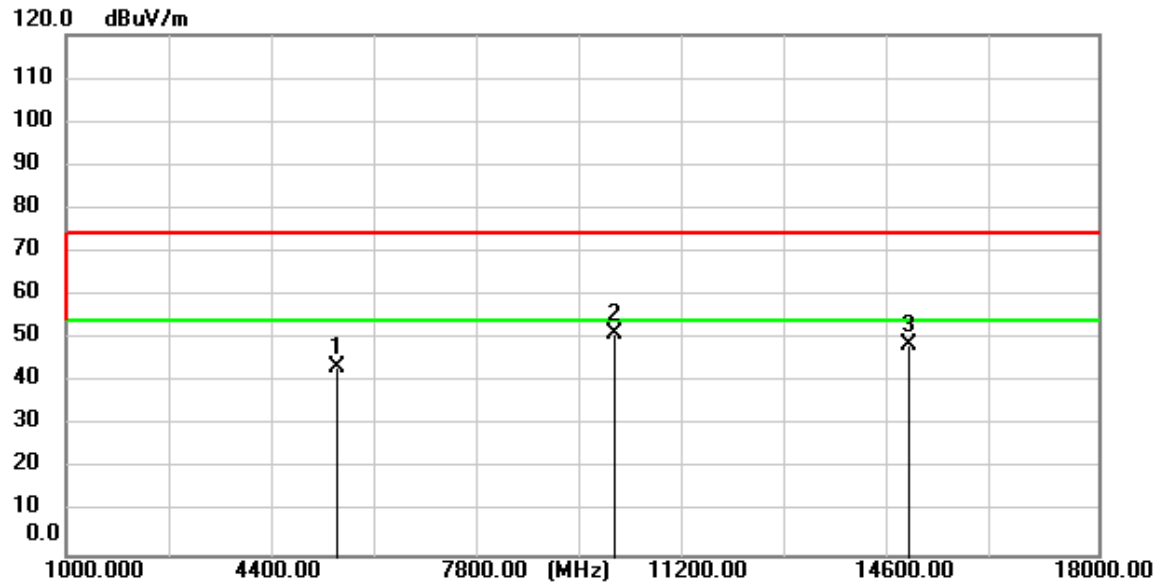
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5213.450	53.74	-12.59	41.15	74.00	-32.85	peak
2	7488.050	52.52	-6.24	46.28	74.00	-27.72	peak
3	14491.200	51.06	-1.34	49.72	74.00	-24.28	peak

Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4923.600	66.74	-12.96	53.78	74.00	-20.22	peak
2	7399.650	56.57	-6.41	50.16	74.00	-23.84	peak
3	14653.550	54.96	-1.89	53.07	74.00	-20.93	peak

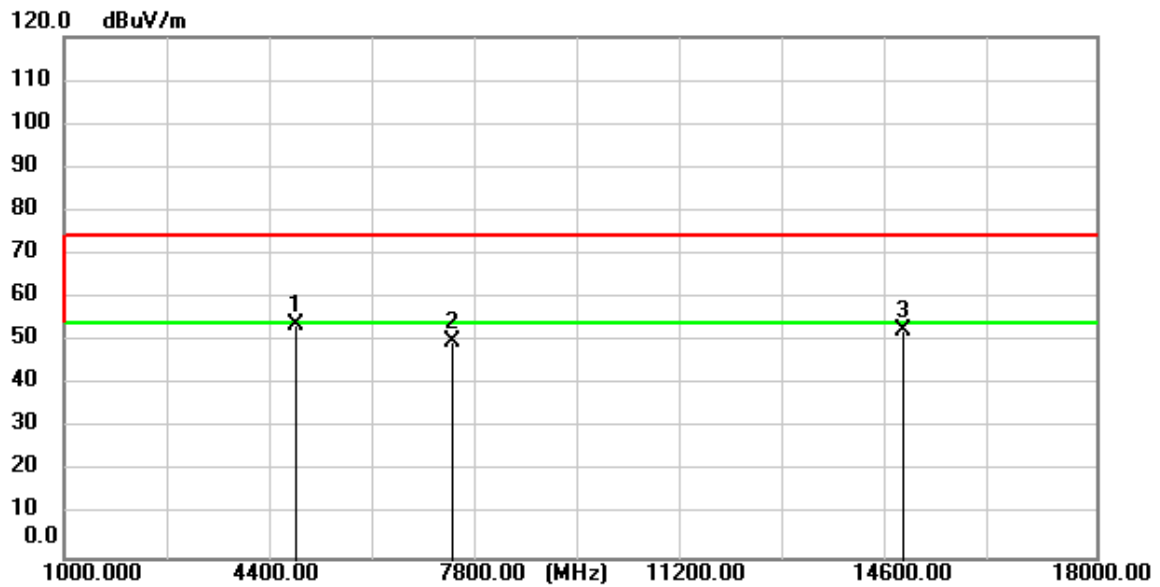
Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5459.950	55.81	-12.30	43.51	74.00	-30.49	peak
2	10031.250	52.69	-1.53	51.16	74.00	-22.84	peak
3	14863.500	51.33	-2.59	48.74	74.00	-25.26	peak

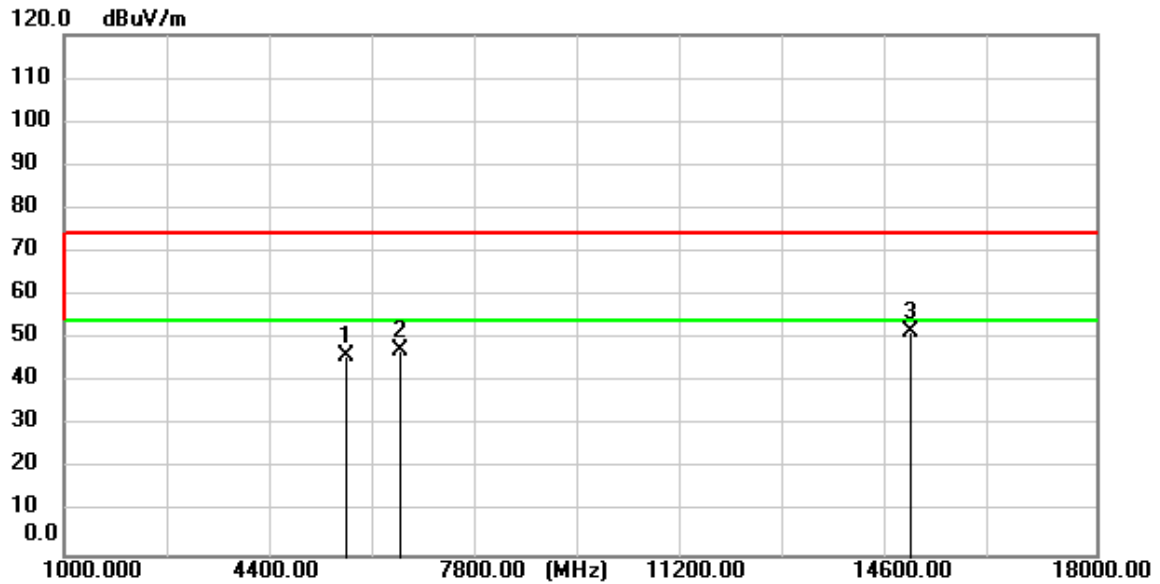
WLAN 1

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



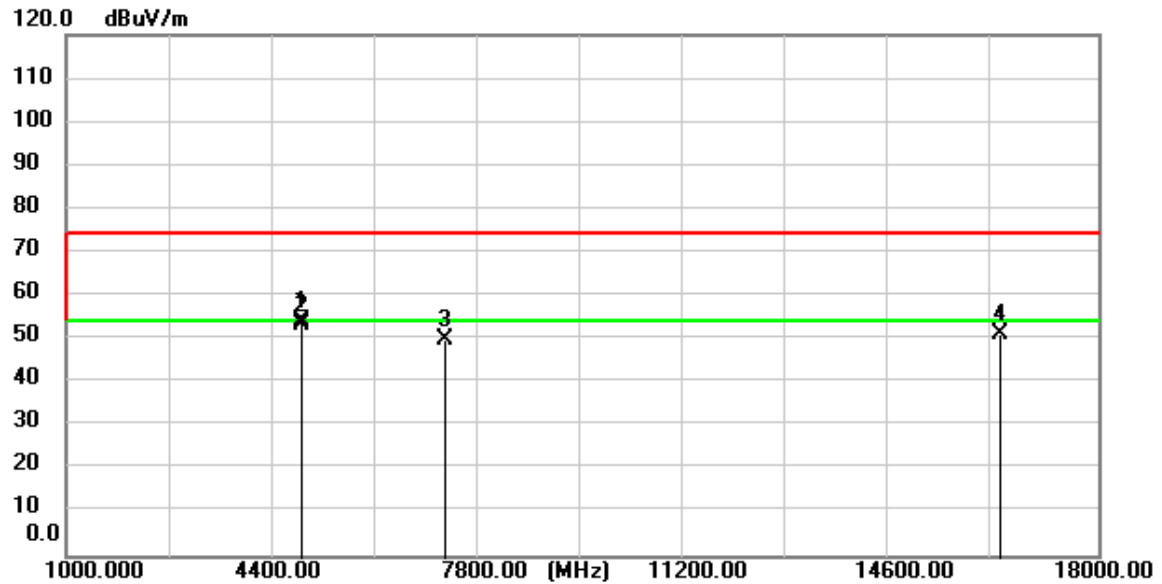
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.150	66.82	-13.09	53.73	74.00	-20.27	peak
2	7399.650	56.28	-6.41	49.87	74.00	-24.13	peak
3	14818.450	55.08	-2.43	52.65	74.00	-21.35	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



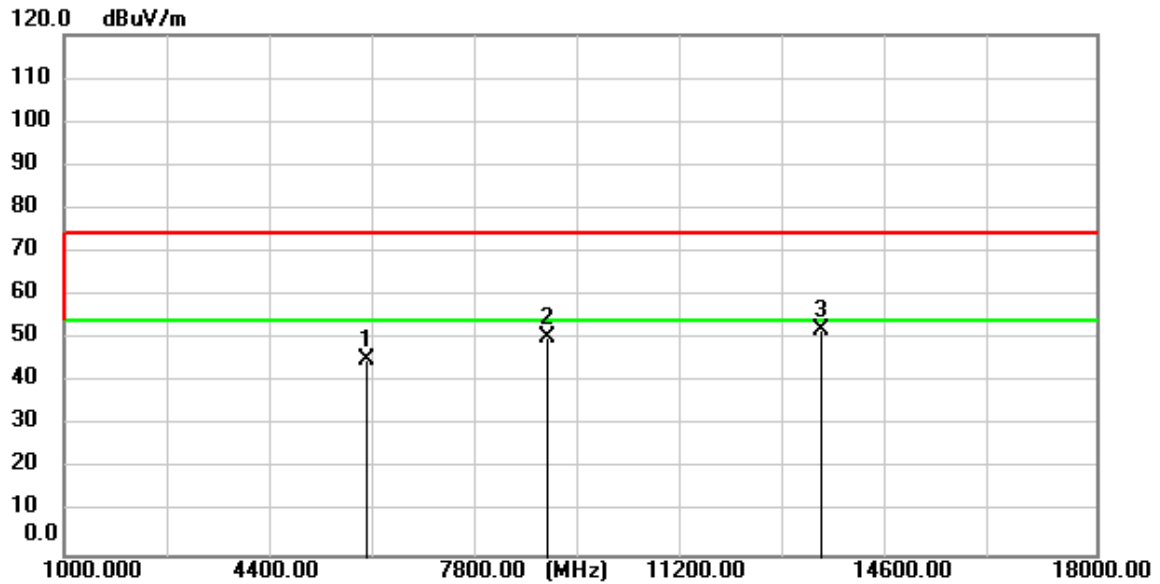
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5630.800	57.99	-11.90	46.09	74.00	-27.91	peak
2	6521.600	55.65	-8.13	47.52	74.00	-26.48	peak
3	14944.250	54.32	-2.86	51.46	74.00	-22.54	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



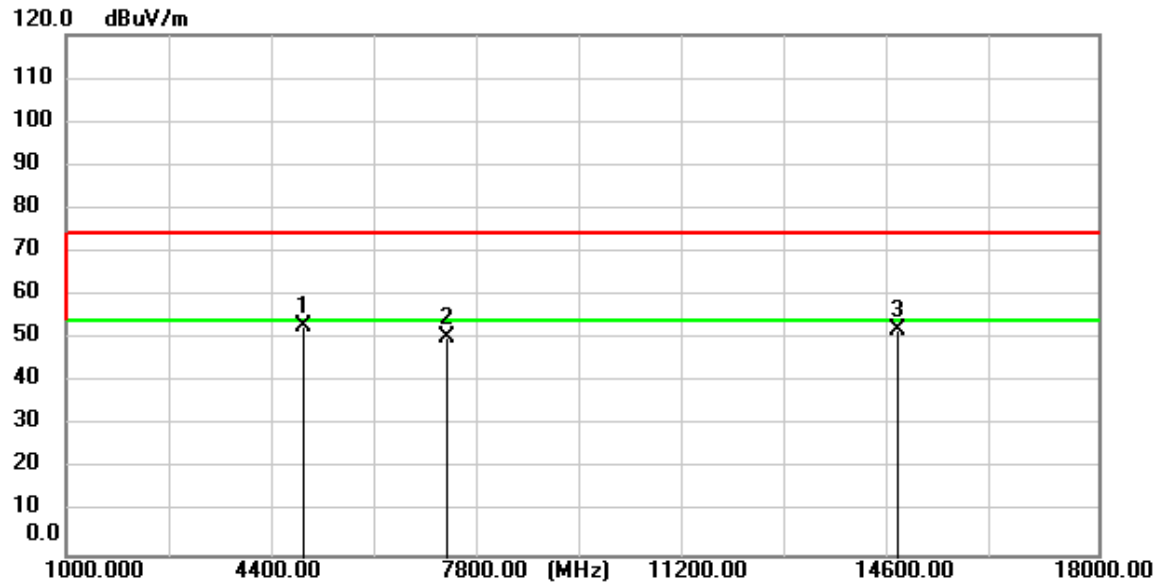
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4873.450	67.37	-13.03	54.34	74.00	-19.66	peak
2	4873.450	66.24	-13.03	53.21	54.00	-0.79	AVG
3	7236.450	56.39	-6.59	49.80	74.00	-24.20	peak
4	16380.750	55.13	-4.00	51.13	74.00	-22.87	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



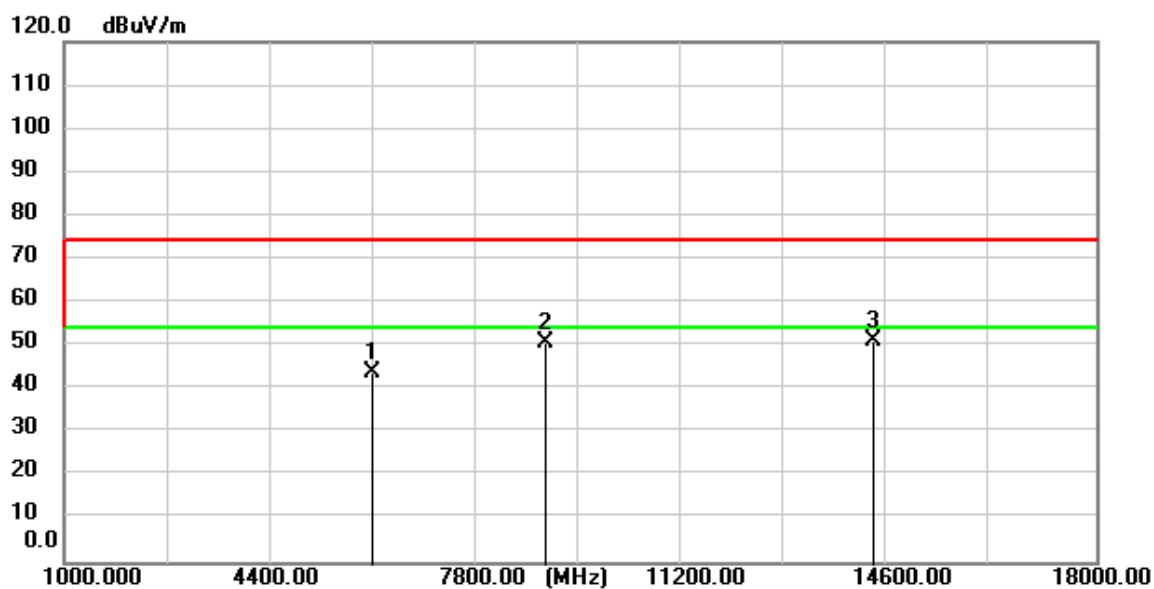
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5985.250	55.62	-10.53	45.09	74.00	-28.91	peak
2	8972.150	53.84	-3.56	50.28	74.00	-23.72	peak
3	13475.450	51.84	0.30	52.14	74.00	-21.86	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



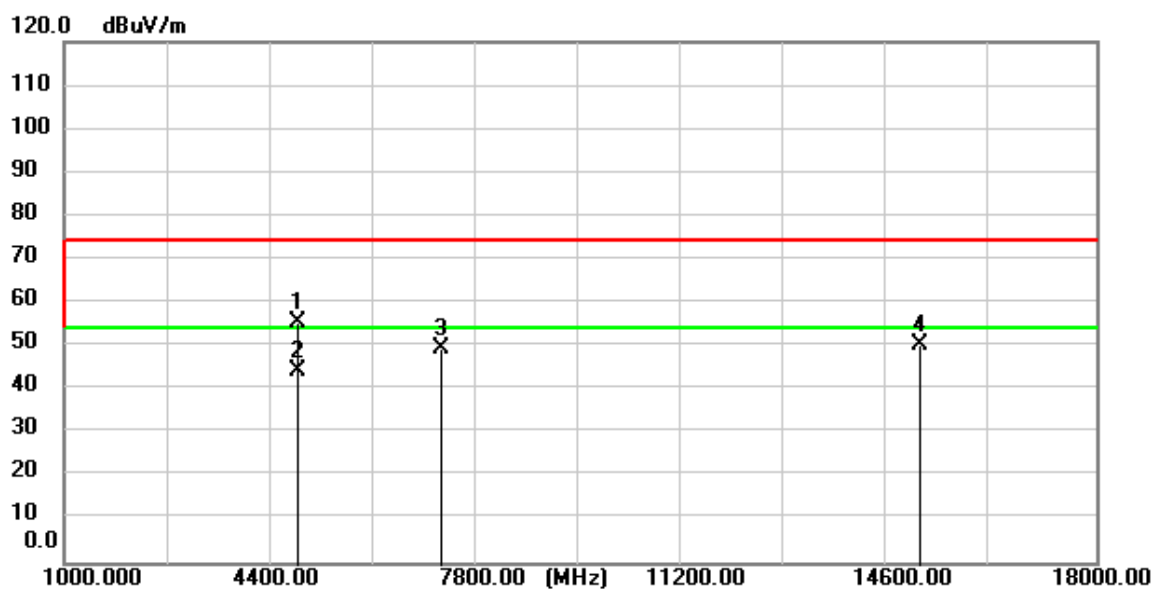
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4923.600	65.95	-12.96	52.99	74.00	-21.01	peak
2	7257.700	57.00	-6.57	50.43	74.00	-23.57	peak
3	14696.050	54.13	-2.03	52.10	74.00	-21.90	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



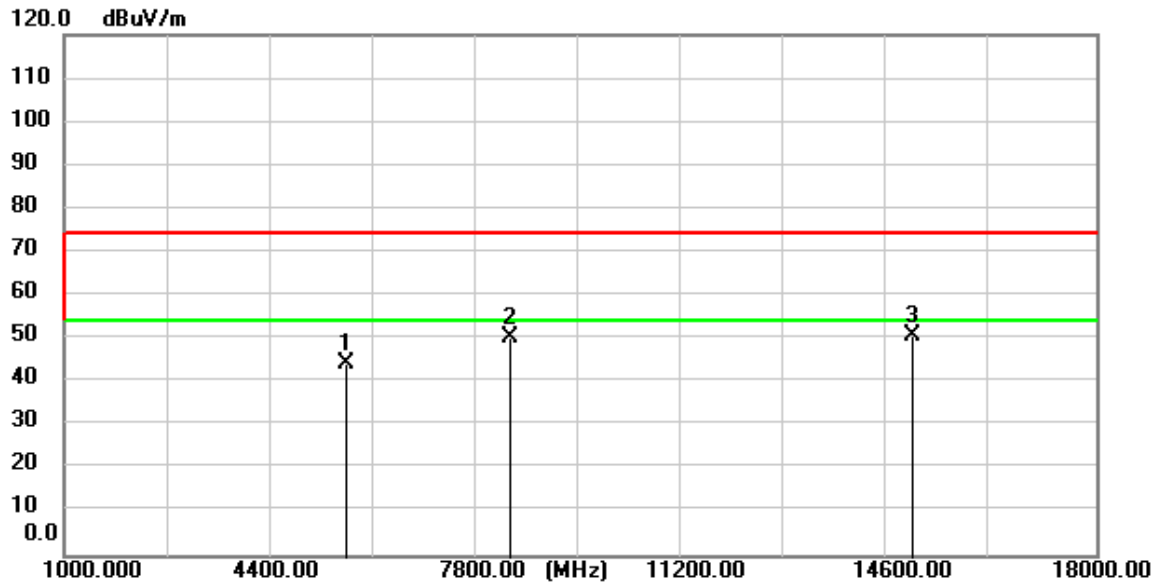
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6062.600	54.33	-10.22	44.11	74.00	-29.89	peak
2	8921.150	54.45	-3.65	50.80	74.00	-23.20	peak
3	14334.800	51.97	-0.74	51.23	74.00	-22.77	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



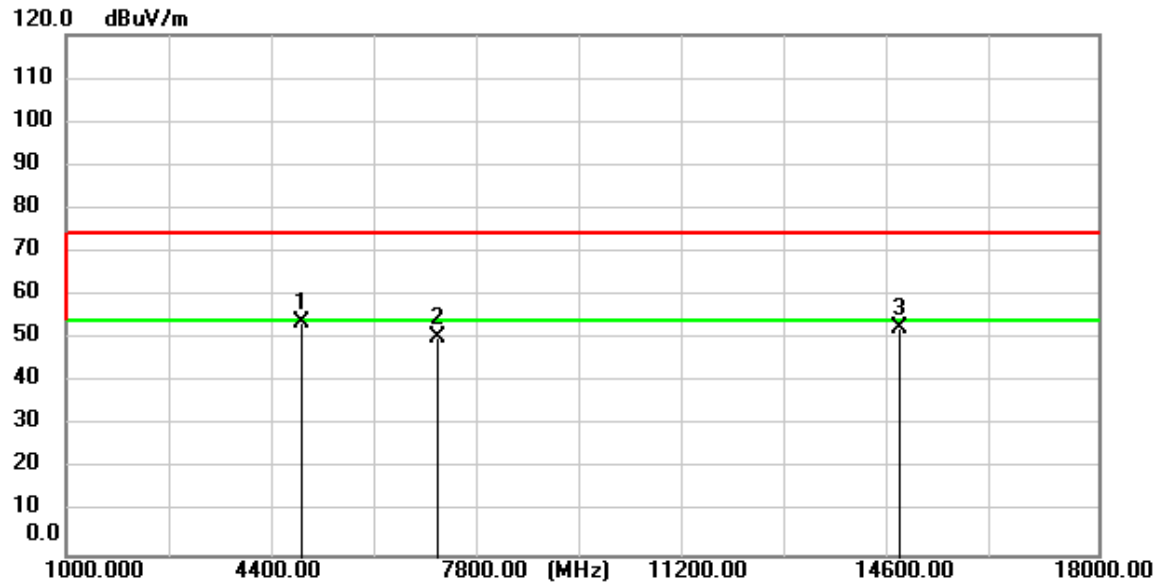
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4826.700	68.44	-13.08	55.36	74.00	-18.64	peak
2	4826.700	57.63	-13.08	44.55	54.00	-9.45	AVG
3	7212.650	56.19	-6.62	49.57	74.00	-24.43	peak
4	15076.850	53.73	-3.31	50.42	74.00	-23.58	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



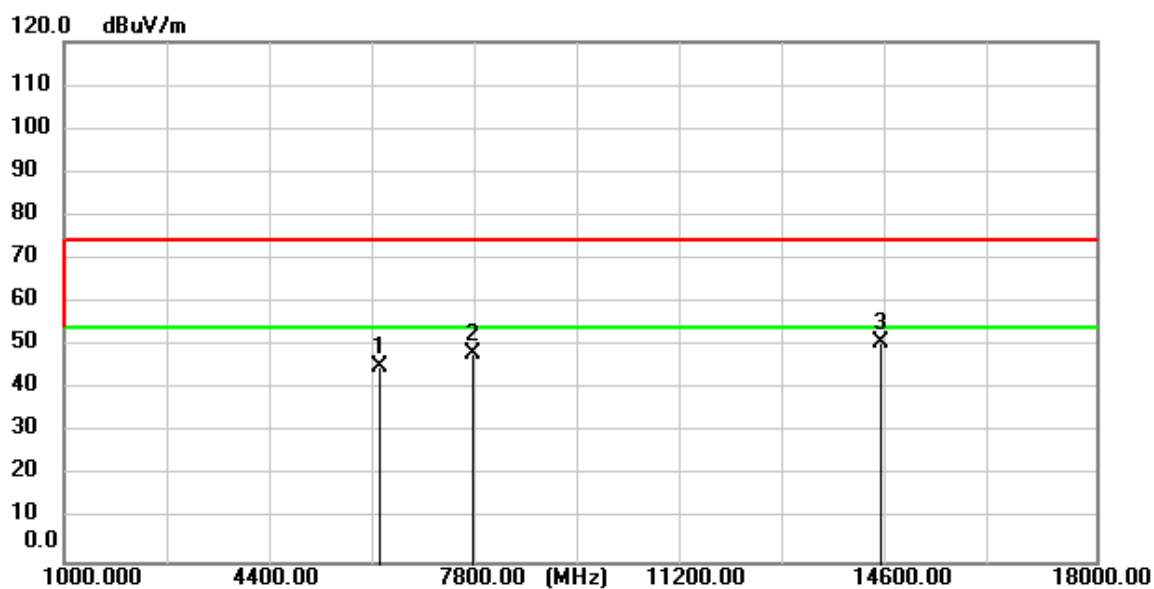
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5630.800	56.20	-11.90	44.30	74.00	-29.70	peak
2	8348.250	54.98	-4.61	50.37	74.00	-23.63	peak
3	14973.150	53.82	-2.96	50.86	74.00	-23.14	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

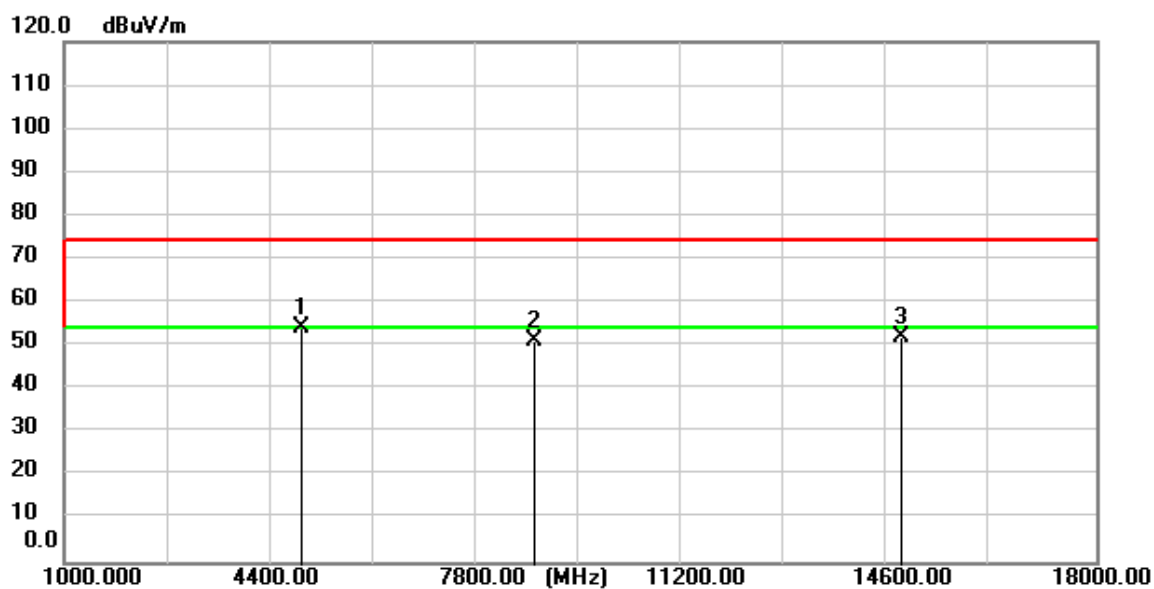


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4870.050	66.96	-13.03	53.93	74.00	-20.07	peak
2	7125.100	56.91	-6.73	50.18	74.00	-23.82	peak
3	14704.550	54.64	-2.05	52.59	74.00	-21.41	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

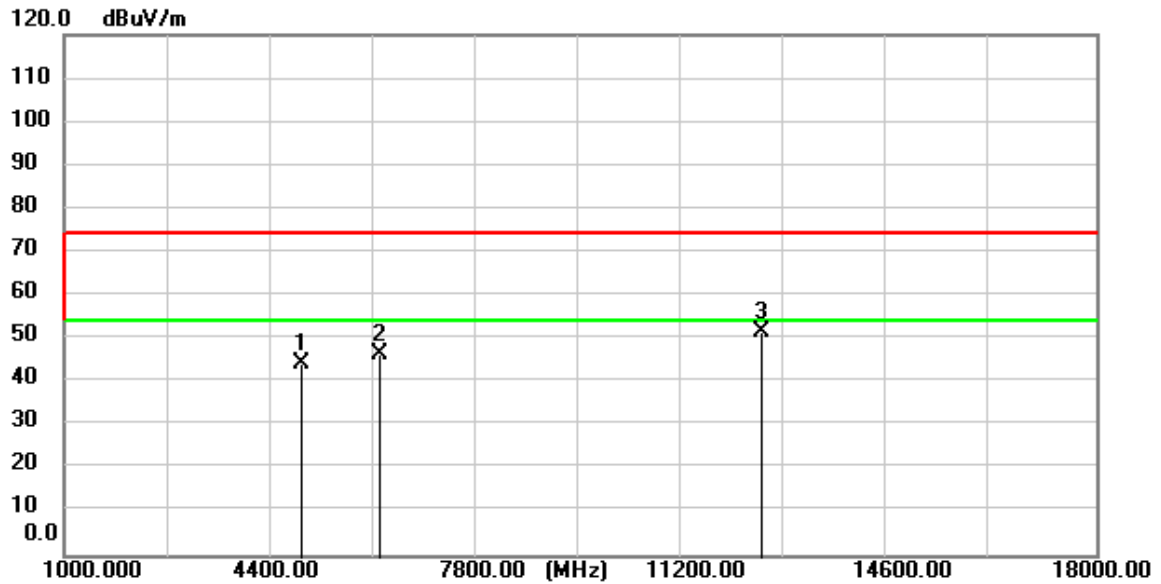


Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



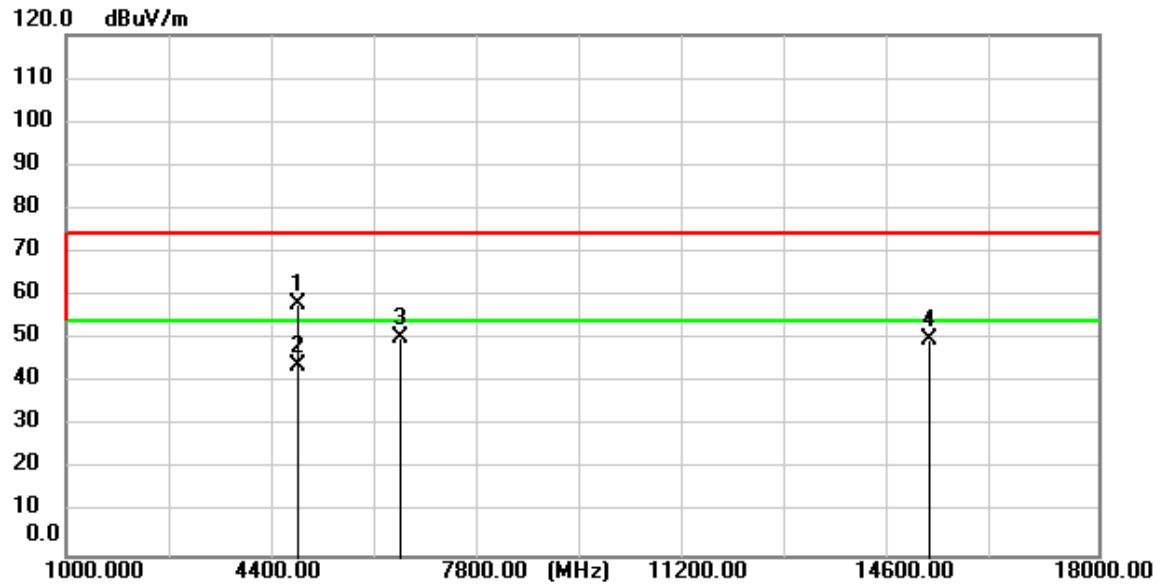
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4927.000	67.08	-12.94	54.14	74.00	-19.86	peak
2	8733.300	55.10	-3.97	51.13	74.00	-22.87	peak
3	14770.850	54.45	-2.28	52.17	74.00	-21.83	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



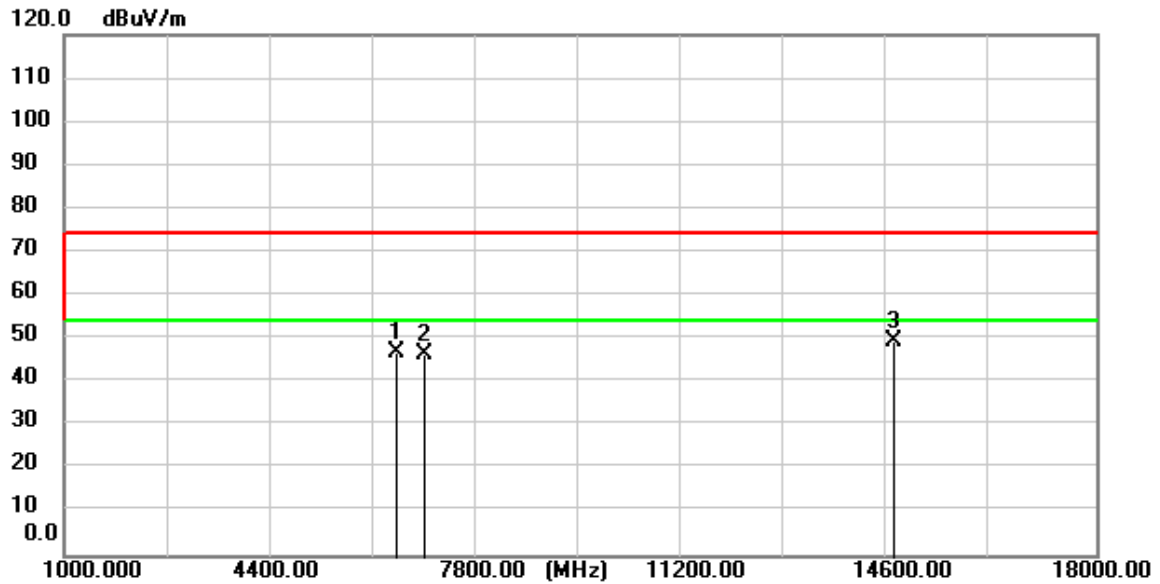
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4919.350	57.18	-12.96	44.22	74.00	-29.78	peak
2	6199.450	55.99	-9.61	46.38	74.00	-27.62	peak
3	12485.200	52.67	-0.93	51.74	74.00	-22.26	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



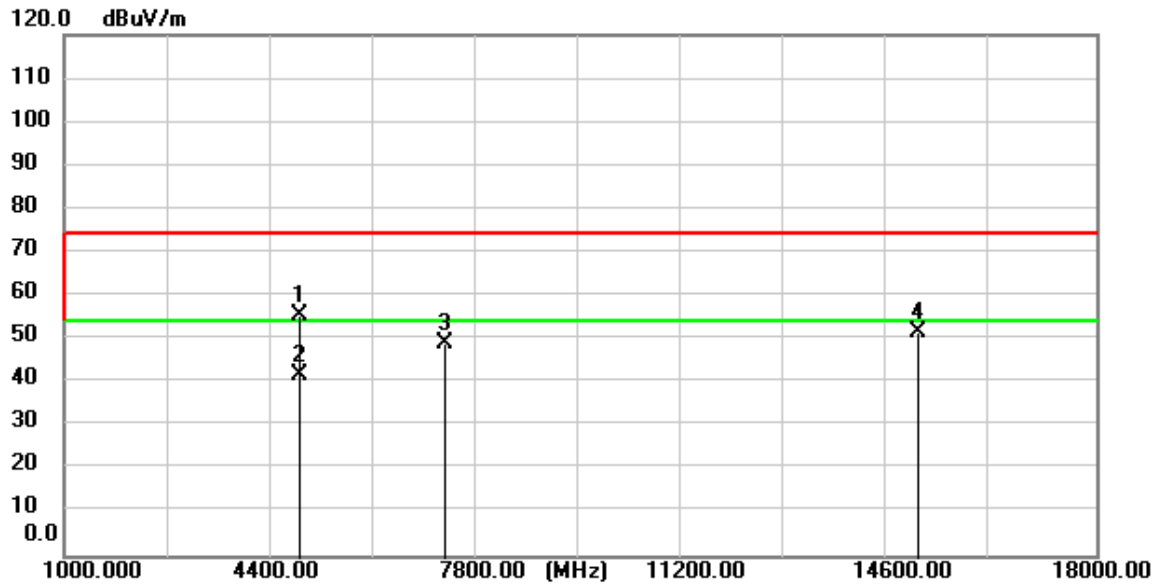
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4819.900	71.27	-13.10	58.17	74.00	-15.83	peak
2	4819.900	57.19	-13.10	44.09	54.00	-9.91	AVG
3	6496.950	58.55	-8.24	50.31	74.00	-23.69	peak
4	15202.650	53.59	-3.73	49.86	74.00	-24.14	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



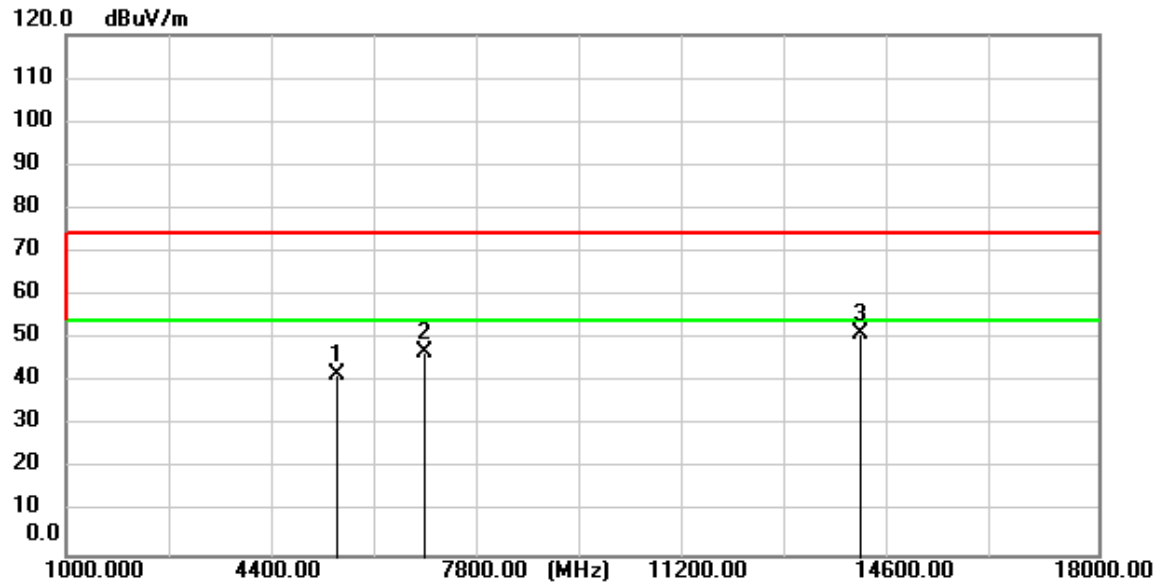
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6488.450	55.36	-8.28	47.08	74.00	-26.92	peak
2	6946.600	53.43	-6.93	46.50	74.00	-27.50	peak
3	14673.950	51.50	-1.95	49.55	74.00	-24.45	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



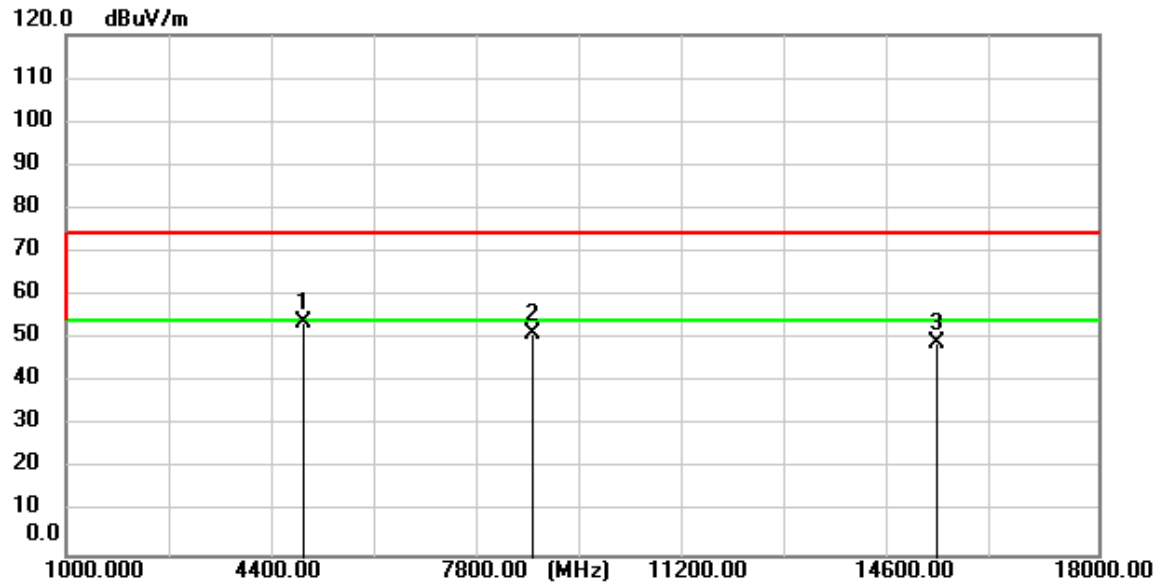
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4876.000	68.67	-13.01	55.66	74.00	-18.34	peak
2	4876.000	54.59	-13.01	41.58	54.00	-12.42	AVG
3	7266.200	55.52	-6.57	48.95	74.00	-25.05	peak
4	15062.400	54.75	-3.26	51.49	74.00	-22.51	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



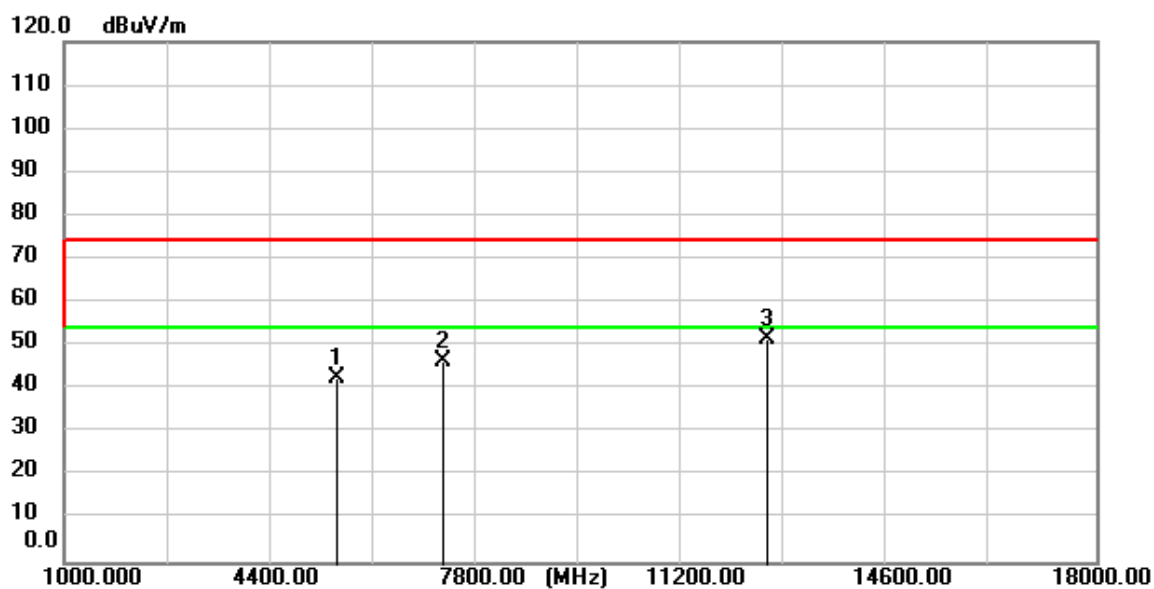
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5448.050	54.28	-12.31	41.97	74.00	-32.03	peak
2	6887.100	53.84	-7.00	46.84	74.00	-27.16	peak
3	14073.850	51.06	0.36	51.42	74.00	-22.58	peak

Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4921.050	66.82	-12.96	53.86	74.00	-20.14	peak
2	8691.650	55.27	-4.03	51.24	74.00	-22.76	peak
3	15342.900	53.21	-4.20	49.01	74.00	-24.99	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5474.400	54.81	-12.28	42.53	74.00	-31.47	peak
2	7227.100	53.19	-6.61	46.58	74.00	-27.42	peak
3	12590.600	52.38	-0.78	51.60	74.00	-22.40	peak

7.5 Conducted Average Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C

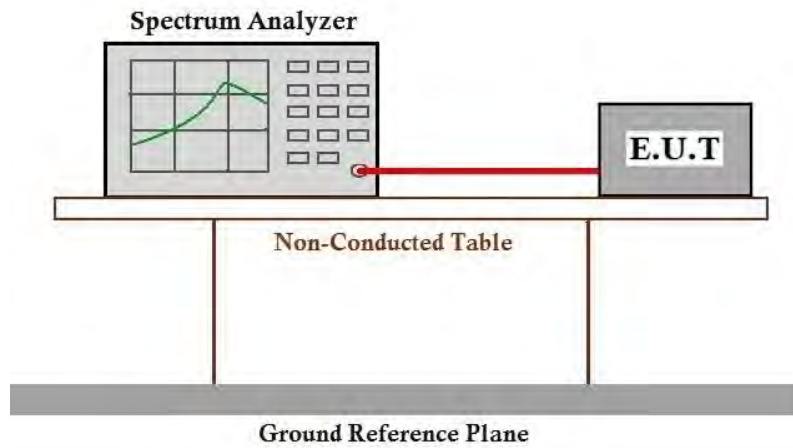
Humidity: 50.5 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details

7.6 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:

≥500 kHz

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C

Humidity: 50.5 % RH

Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.

7.6.3 Measurement Procedure and Data

Please Refer to Appendix for Details

7.7 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)

Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C

Humidity: 50.5 % RH

Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.

7.7.3 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C

Humidity: 50.5 % RH

Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.

7.8.3 Measurement Procedure and Data

Please Refer to Appendix for Details

7.9 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C

Humidity: 50.5 % RH

Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report.

7.9.3 Measurement Procedure and Data

Please Refer to Appendix for Details



Report No.: KSCR250100008901

Page: 148 of 299

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2501000089AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix_Photographs of EUT Constructional Details for KSCR2501000089AT

10 Appendix

WLAN0

1. Duty Cycle

1.1 Test Result

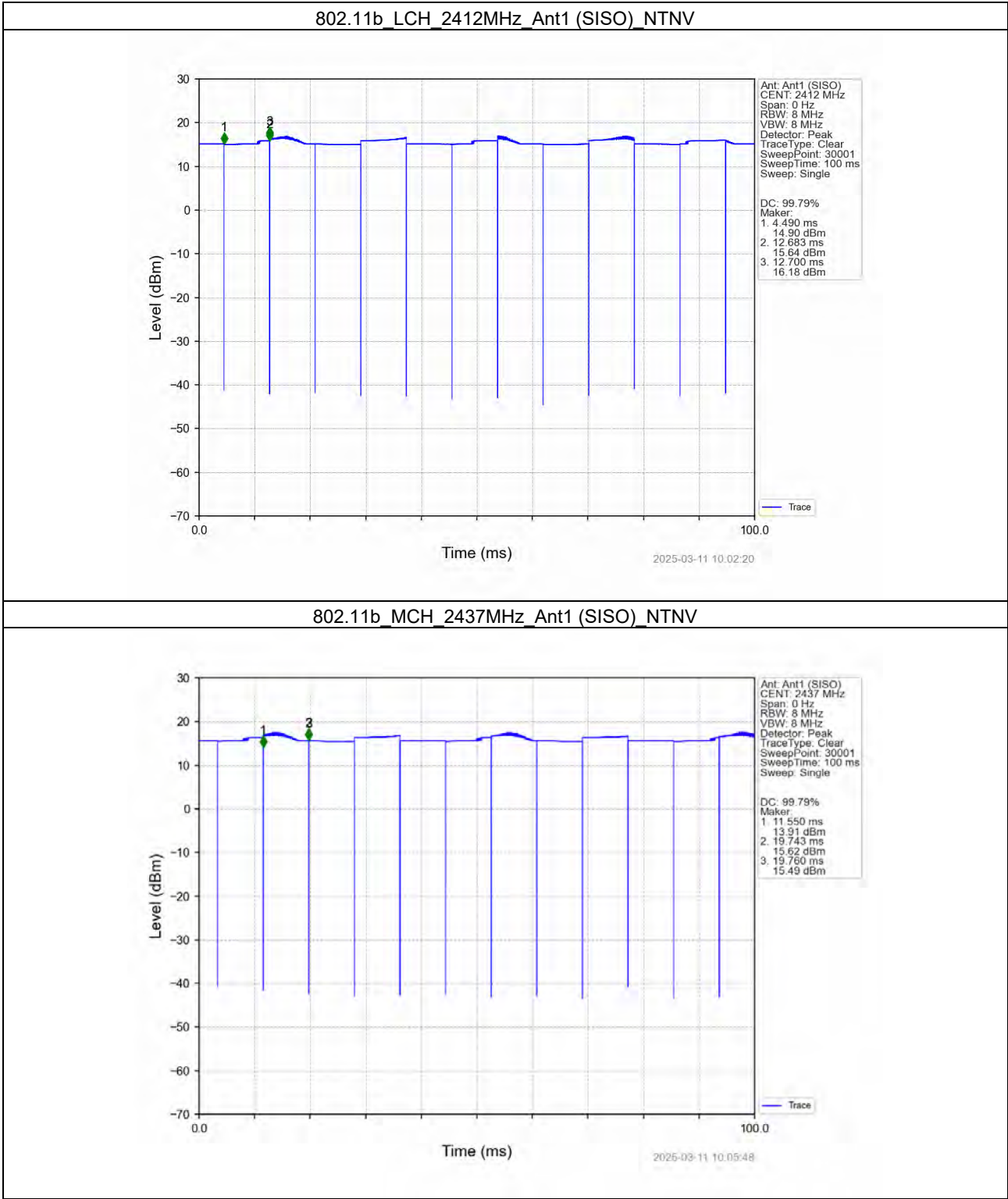
1.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.193	8.210	99.79	0.01	0.04
		2437	/	/	8.193	8.210	99.79	0.01	0.04
		2462	/	/	8.193	8.210	99.79	0.01	0.04
802.11g	SISO	2412	/	/	1.361	1.376	98.91	0.05	0.00
		2437	/	/	1.361	1.377	98.84	0.05	0.00
		2462	/	/	1.361	1.376	98.91	0.05	0.03
802.11n (HT20)	SISO	2412	/	/	1.272	1.288	98.76	0.05	0.03
		2437	/	/	1.272	1.288	98.76	0.05	0.03
		2462	/	/	1.273	1.289	98.76	0.05	0.03
802.11n (HT40)	SISO	2422	/	/	0.633	0.649	97.53	0.11	0.04
		2437	/	/	0.633	0.649	97.53	0.11	0.04
		2452	/	/	0.633	0.648	97.69	0.10	0.04
802.11ax (HE20)	SISO	2412	RU242	Left	0.982	0.998	98.40	0.07	0.03
		2437	RU242	Left	0.983	0.999	98.40	0.07	0.03
		2462	RU242	Left	0.982	0.998	98.40	0.07	0.03
802.11ax (HE40)	SISO	2422	RU484	Left	0.520	0.536	97.01	0.13	0.00
		2437	RU484	Left	0.521	0.536	97.20	0.12	0.03
		2452	RU484	Left	0.521	0.536	97.20	0.12	0.03

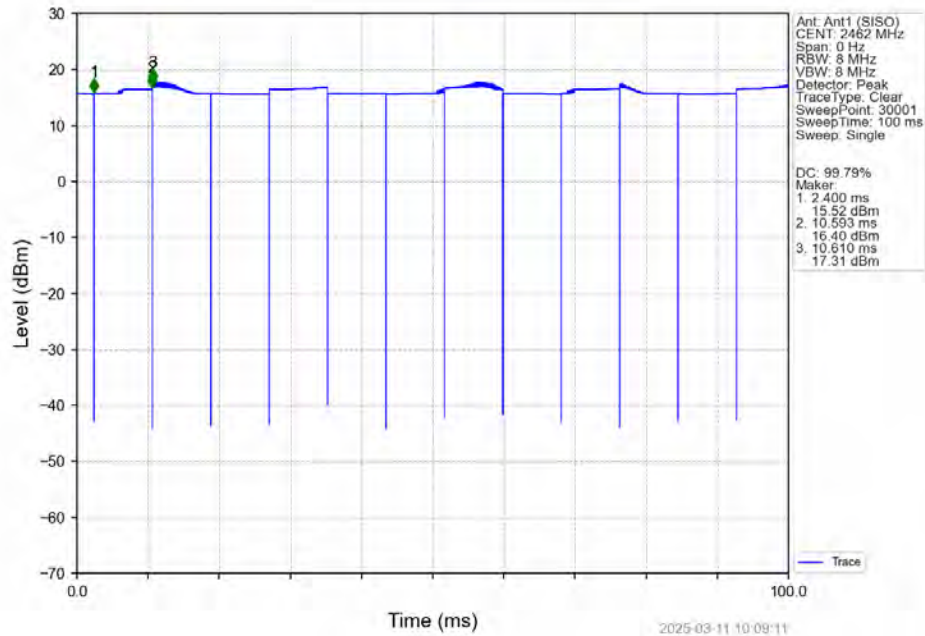


1.2 Test Graph

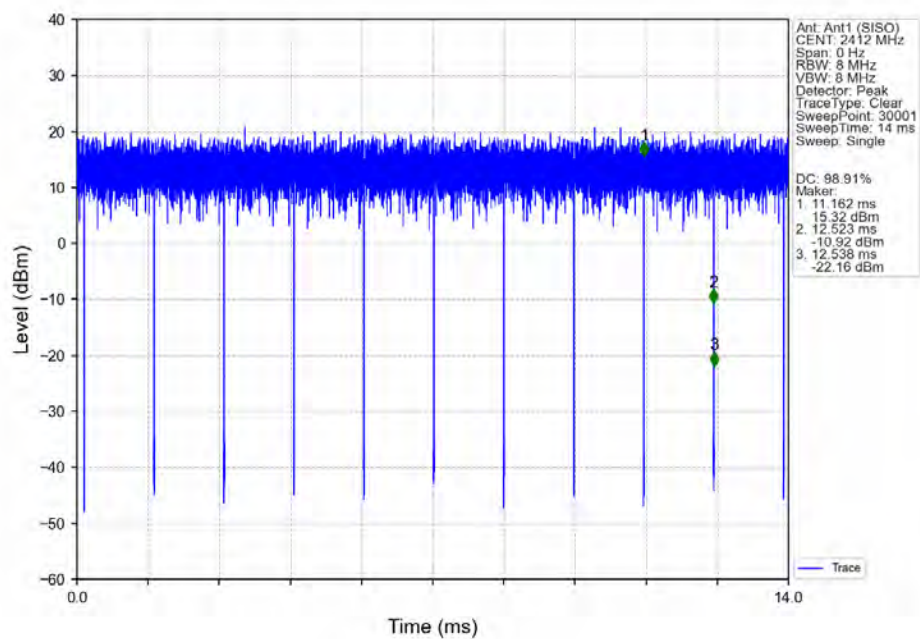
1.2.1 Ant1



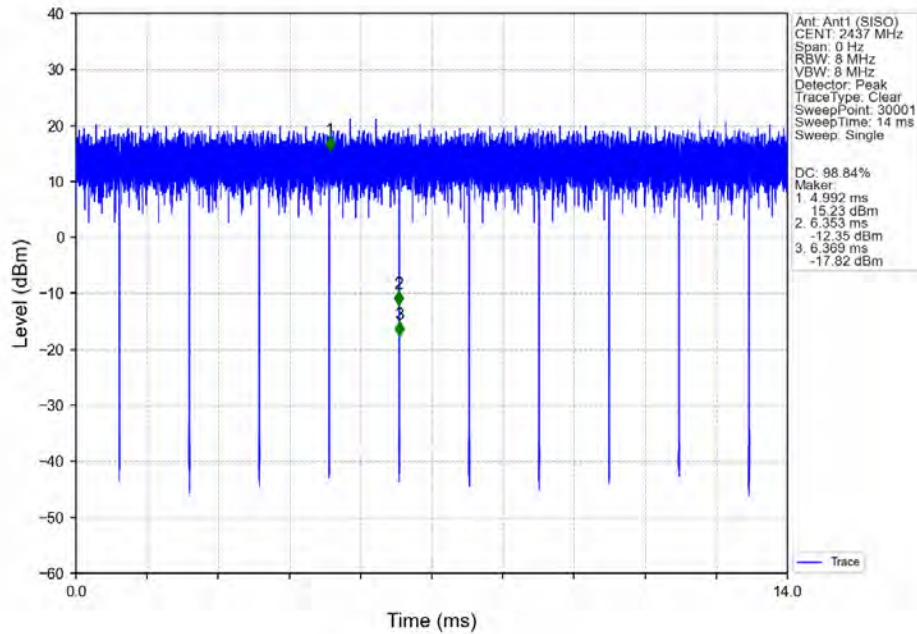
802.11b HCH 2462MHz_Ant1 (SISO)_NTNV



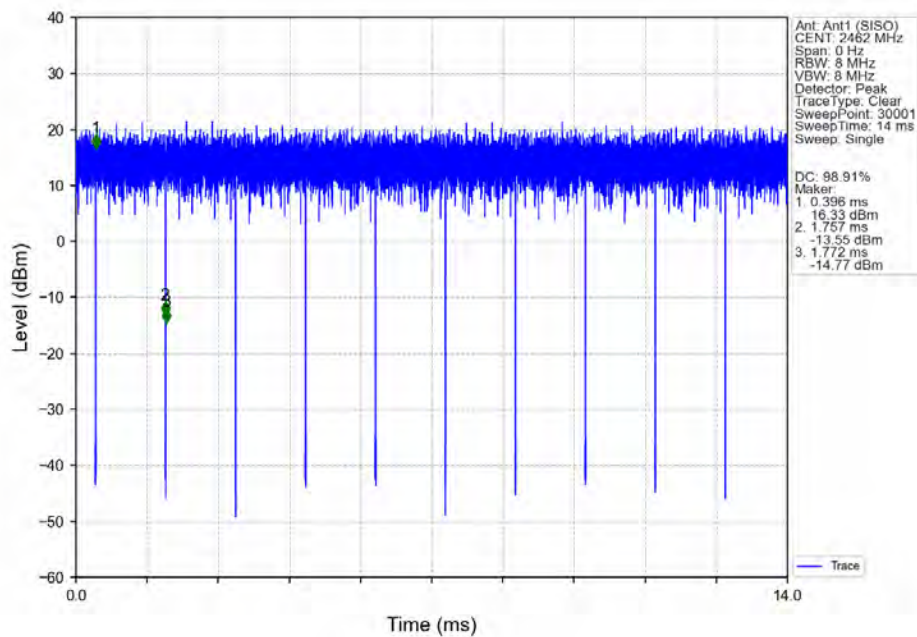
802.11g LCH 2412MHz_Ant1 (SISO)_NTNV



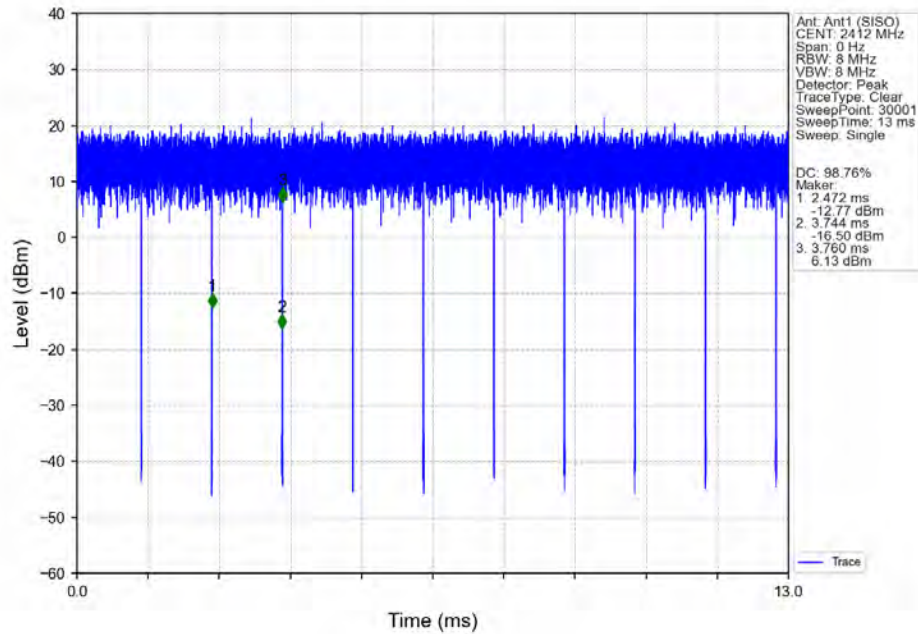
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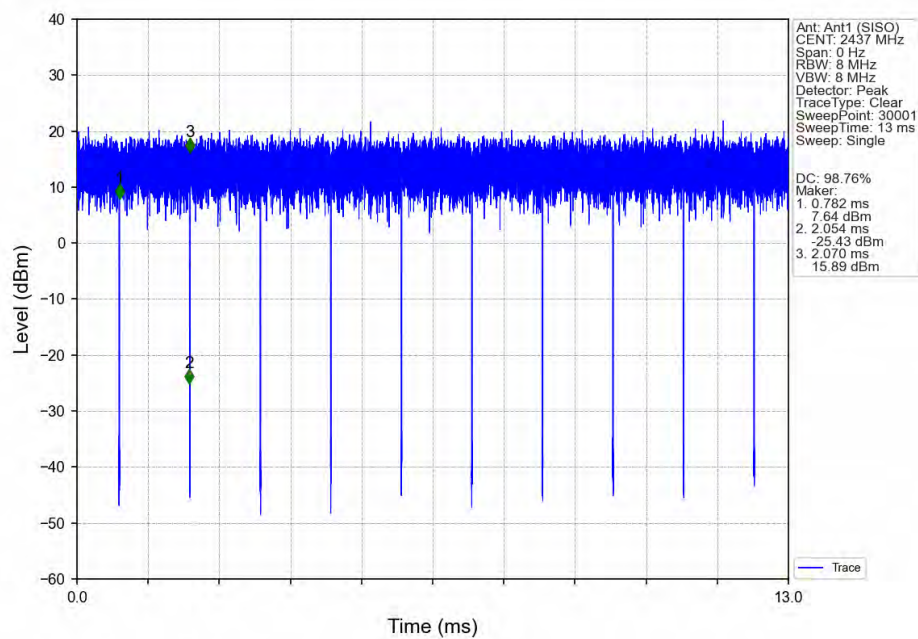
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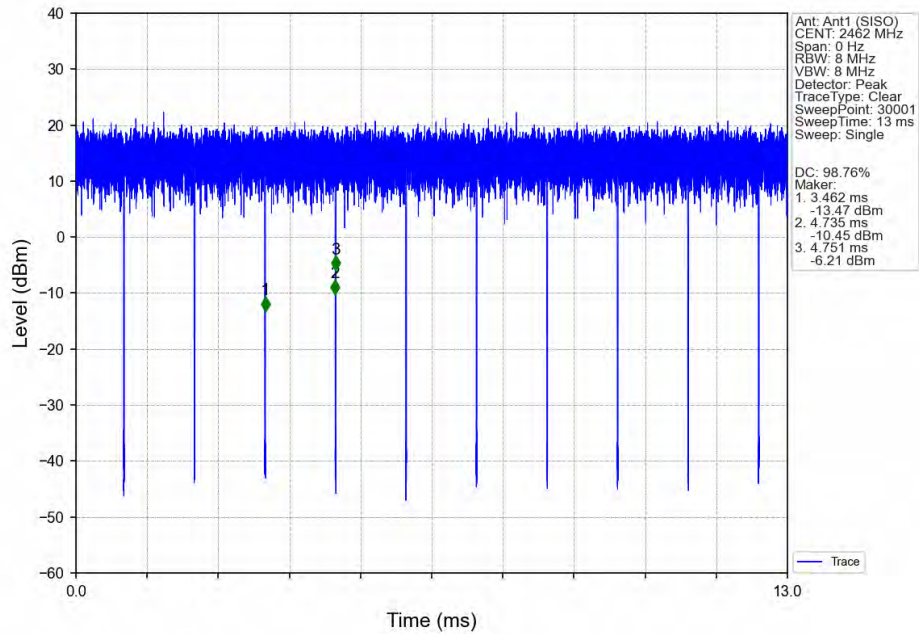
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



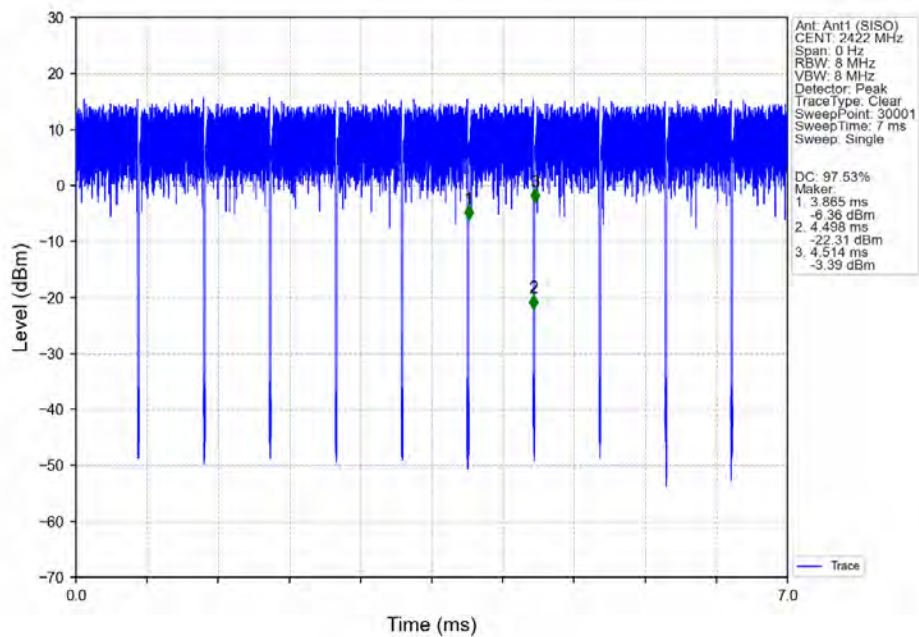
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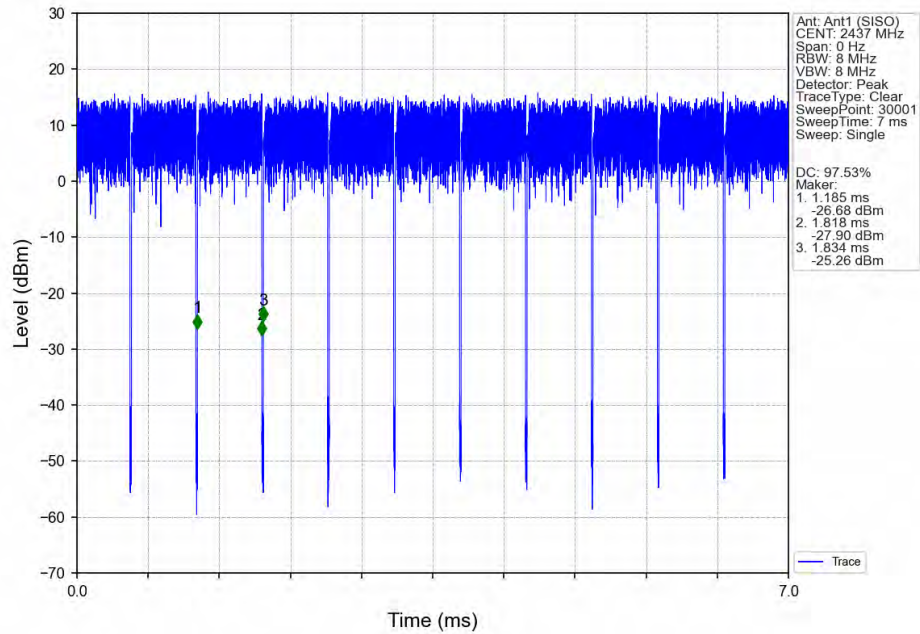
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTN



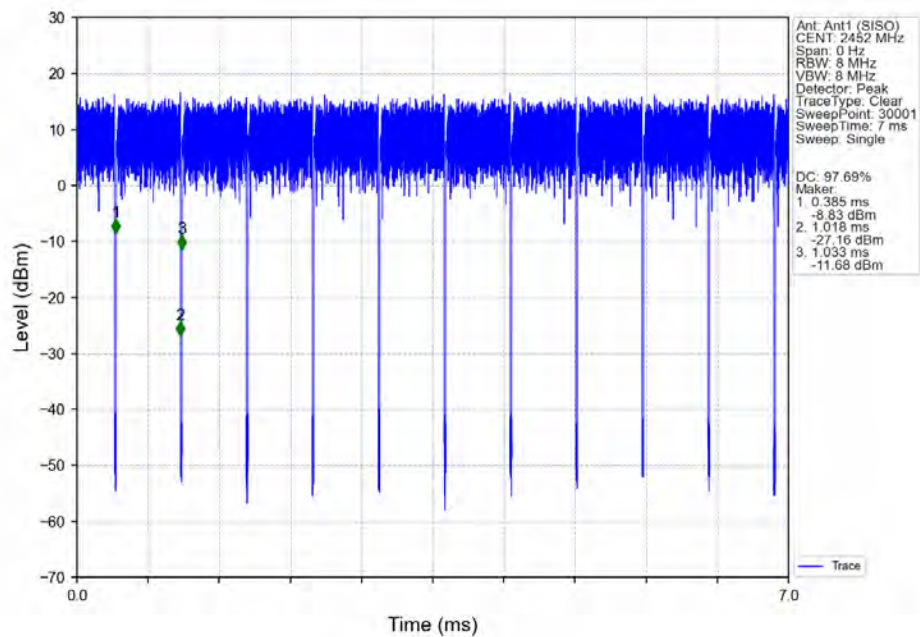
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTN



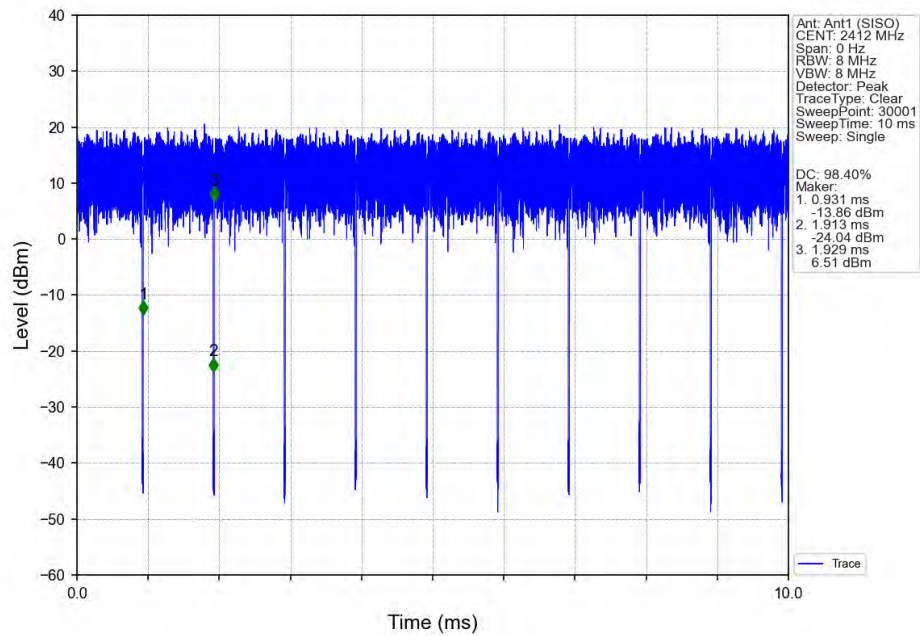
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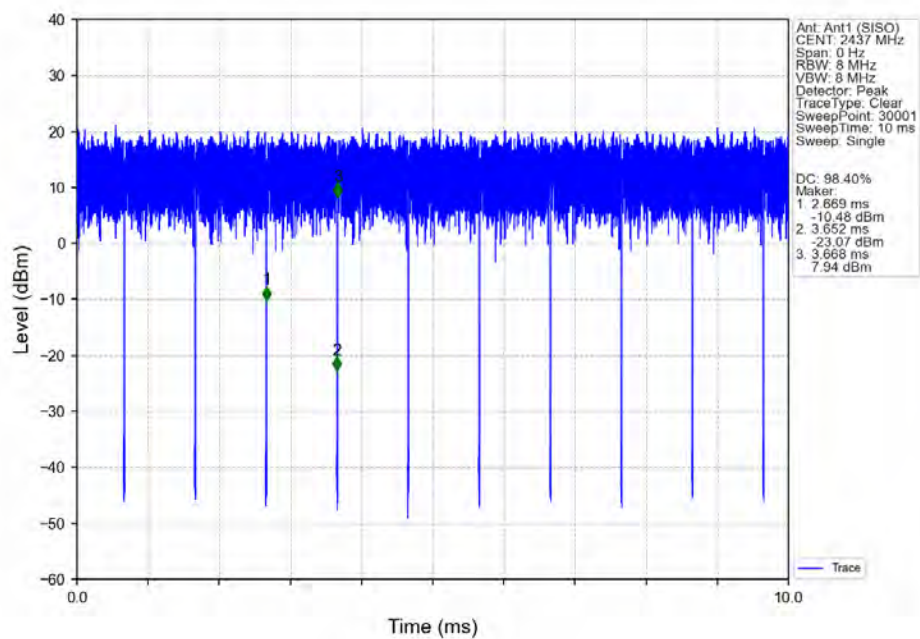
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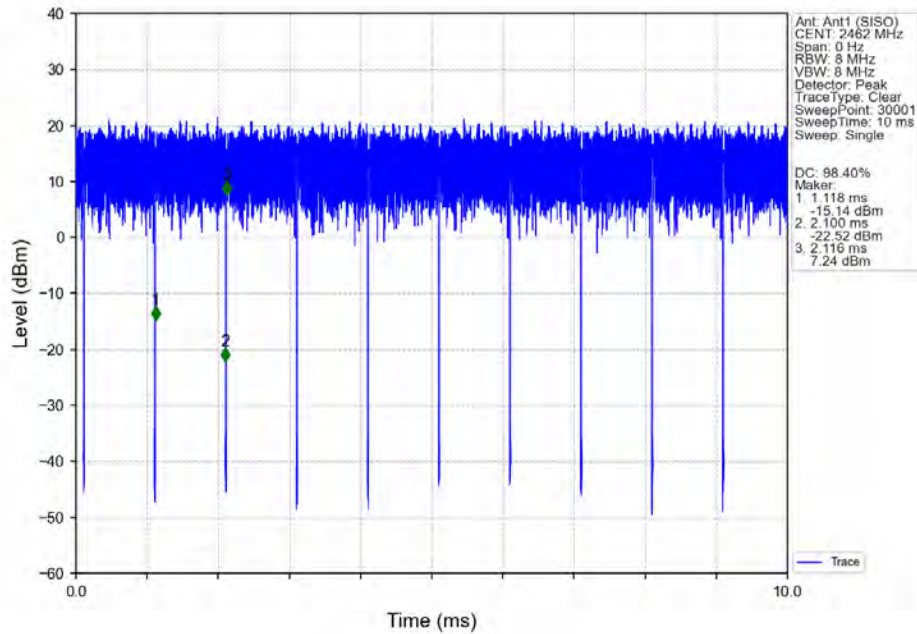
802.11ax(HE20) LCH_2412MHz_RU242_Left_Ant1 (SISO) NTN



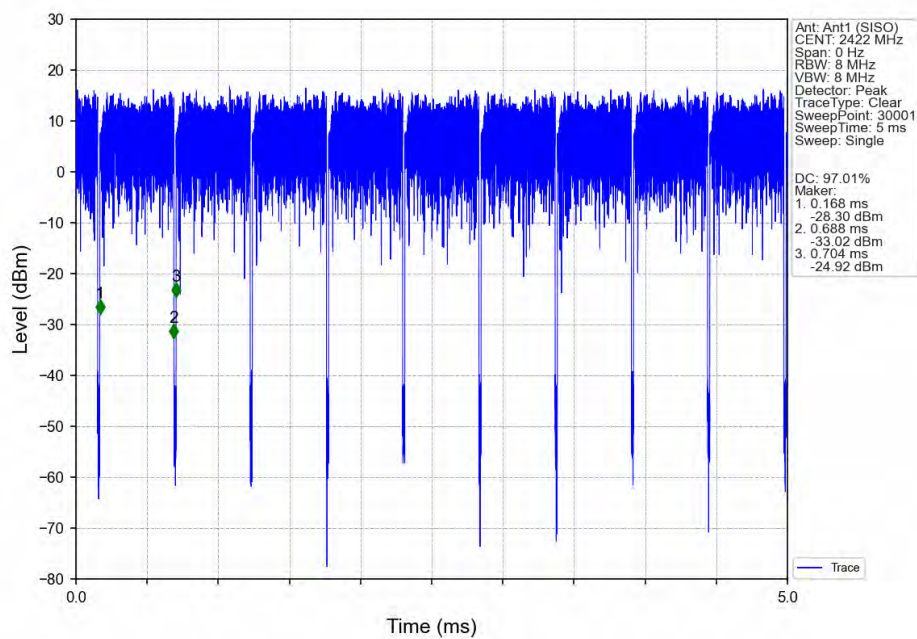
802.11ax(HE20) MCH_2437MHz_RU242_Left_Ant1 (SISO) NTN



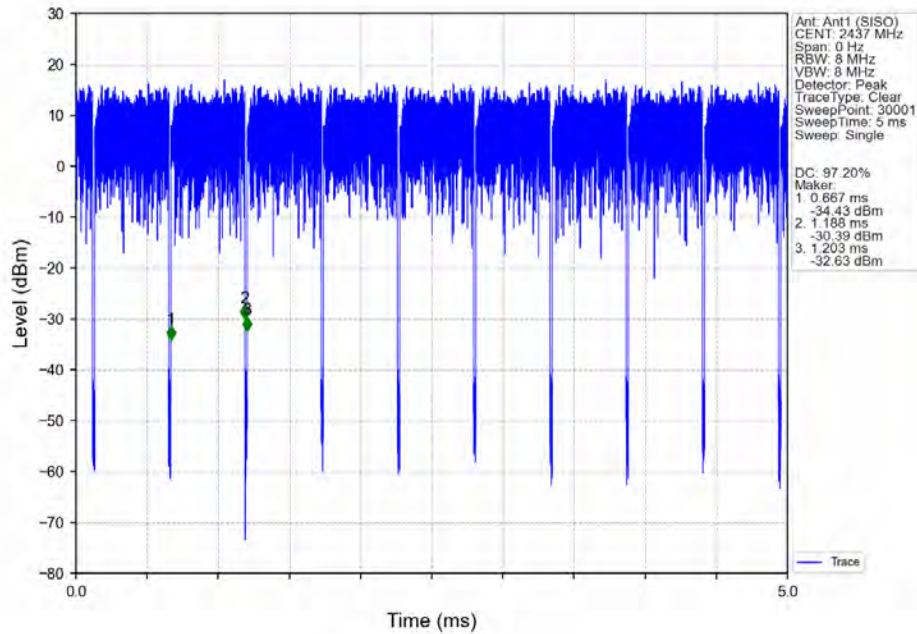
802.11ax(HE20) HCH 2462MHz RU242 Left Ant1 (SISO) NTNV



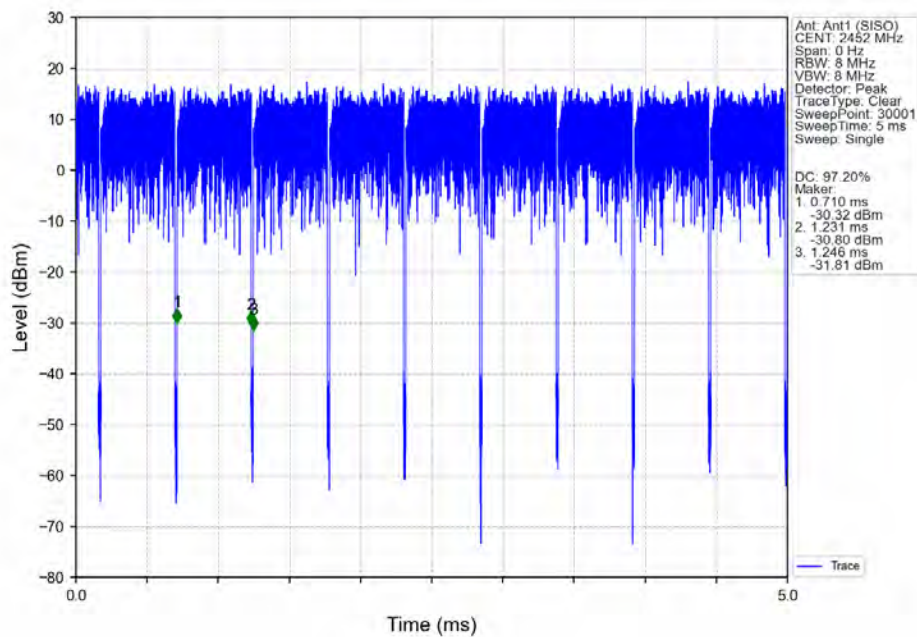
802.11ax(HE40) LCH 2422MHz RU484 Left Ant1 (SISO) NTNV



802.11ax(HE40) MCH_2437MHz_RU484_Left_Ant1(SISO)_NTNV



802.11ax(HE40) HCH_2452MHz_RU484_Left_Ant1(SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	15.004	/	Pass
		2437	/	/	1	14.998	/	Pass
		2462	/	/	1	14.995	/	Pass
802.11g	SISO	2412	/	/	1	18.009	/	Pass
		2437	/	/	1	18.084	/	Pass
		2462	/	/	1	18.079	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	19.034	/	Pass
		2437	/	/	1	19.121	/	Pass
		2462	/	/	1	19.122	/	Pass
802.11n (HT40)	SISO	2422	/	/	1	36.672	/	Pass
		2437	/	/	1	36.733	/	Pass
		2452	/	/	1	36.667	/	Pass
802.11ax (HE20)	SISO	2412	RU242	Left	1	19.298	/	Pass
		2437	RU242	Left	1	19.346	/	Pass
		2462	RU242	Left	1	19.337	/	Pass
802.11ax (HE40)	SISO	2422	RU484	Left	1	38.099	/	Pass
		2437	RU484	Left	1	38.145	/	Pass
		2452	RU484	Left	1	38.106	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	10.092	>=0.5	Pass
		2437	/	/	1	10.065	>=0.5	Pass
		2462	/	/	1	10.009	>=0.5	Pass
802.11g	SISO	2412	/	/	1	16.381	>=0.5	Pass
		2437	/	/	1	16.391	>=0.5	Pass
		2462	/	/	1	16.393	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.625	>=0.5	Pass
		2437	/	/	1	17.634	>=0.5	Pass
		2462	/	/	1	17.643	>=0.5	Pass
802.11n (HT40)	SISO	2422	/	/	1	36.376	>=0.5	Pass
		2437	/	/	1	36.373	>=0.5	Pass
		2452	/	/	1	36.366	>=0.5	Pass
802.11ax (HE20)	SISO	2412	RU242	Left	1	19.039	>=0.5	Pass
		2437	RU242	Left	1	19.047	>=0.5	Pass
		2462	RU242	Left	1	19.059	>=0.5	Pass
802.11ax (HE40)	SISO	2422	RU484	Left	1	37.953	>=0.5	Pass
		2437	RU484	Left	1	37.947	>=0.5	Pass



Report No.: KSCR250100008901

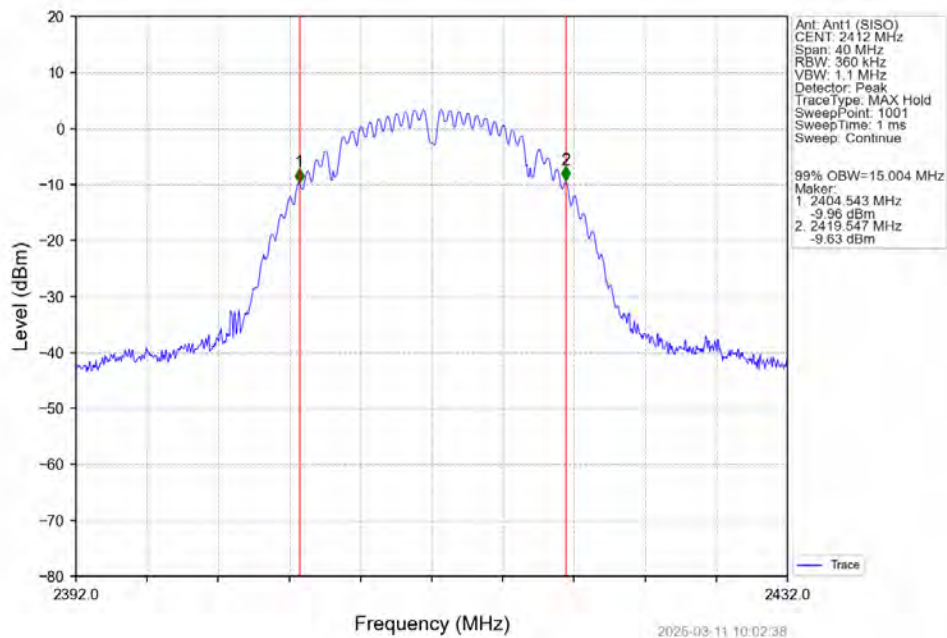
Page: 160 of 299

		2452	RU484	Left	1	37.925	≥ 0.5	Pass
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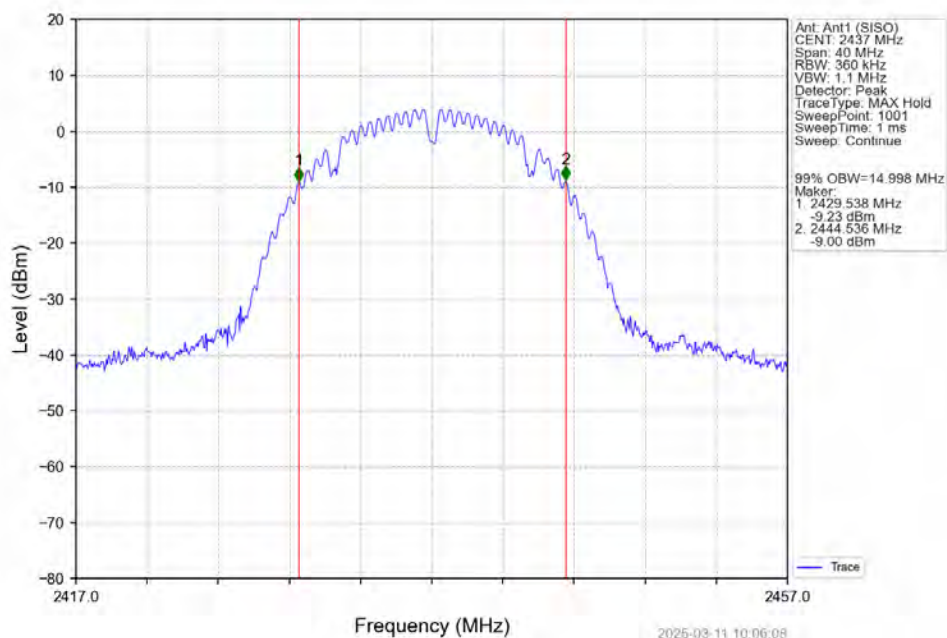
2.2 Test Graph

2.2.1 OBW

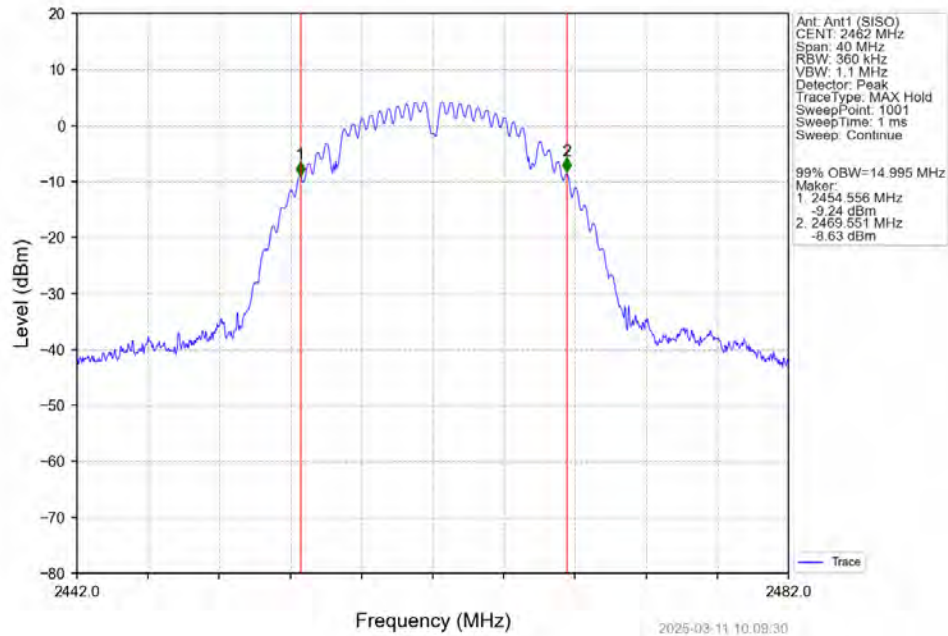
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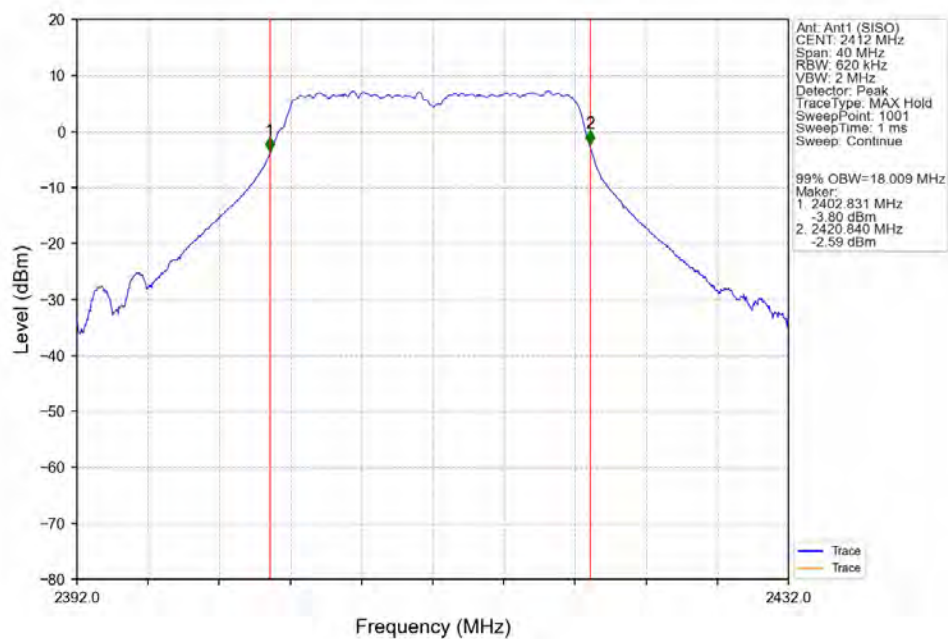
802.11b MCH 2437MHz_Ant1 (SISO)_NTNV



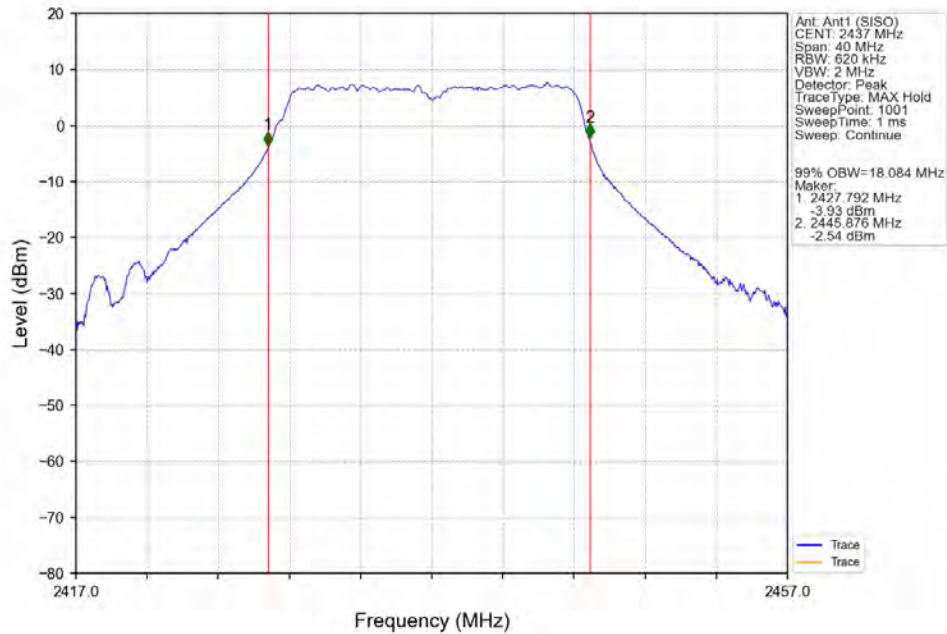
802.11b HCH 2462MHz_Ant1 (SISO)_NTNV



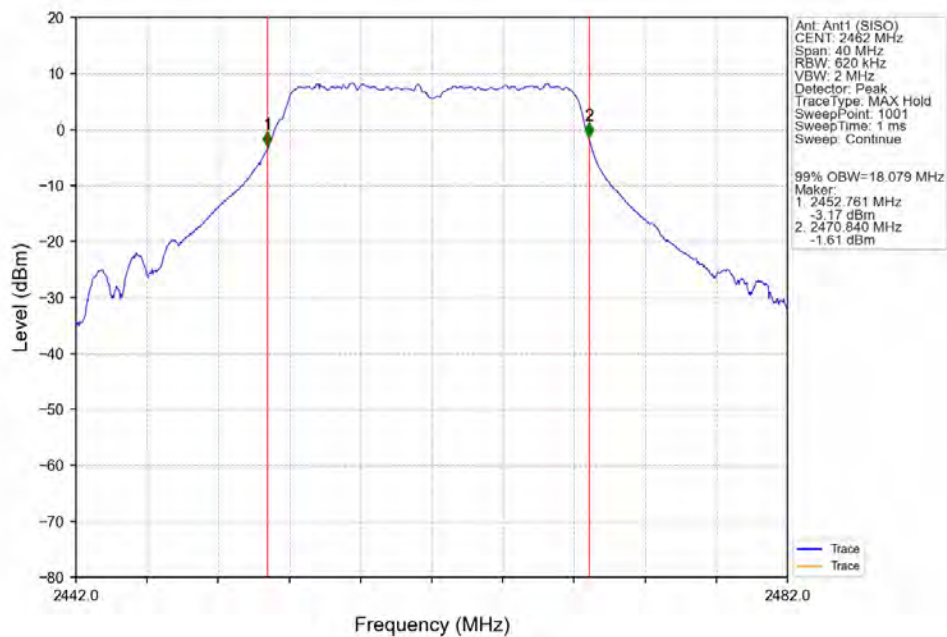
802.11g LCH 2412MHz_Ant1 (SISO)_NTNV



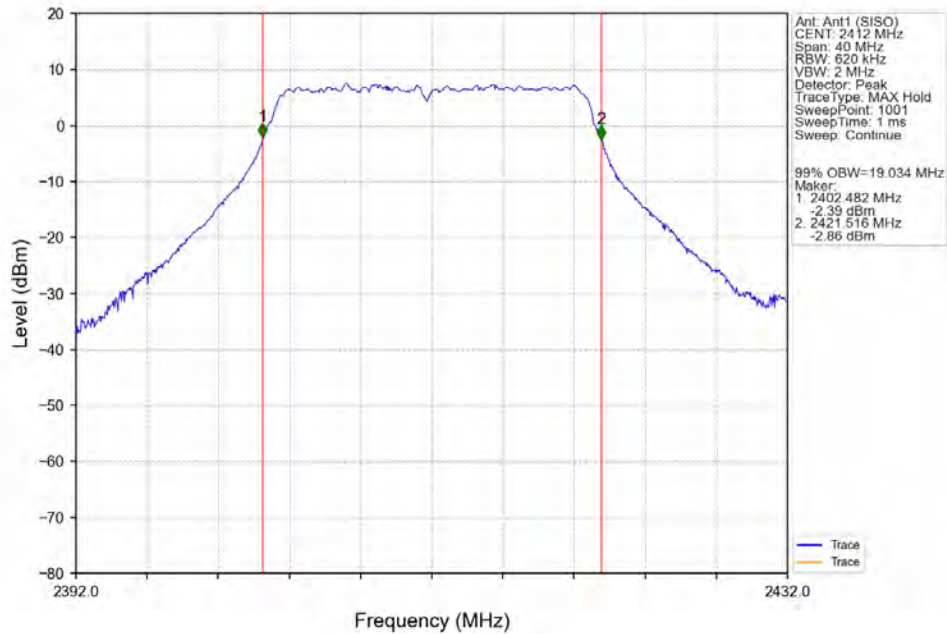
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



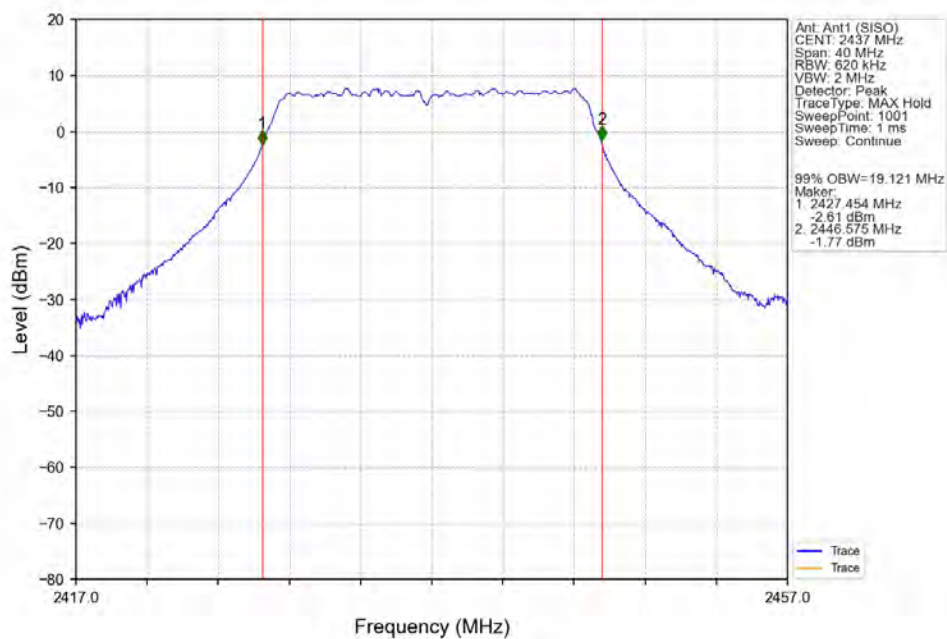
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



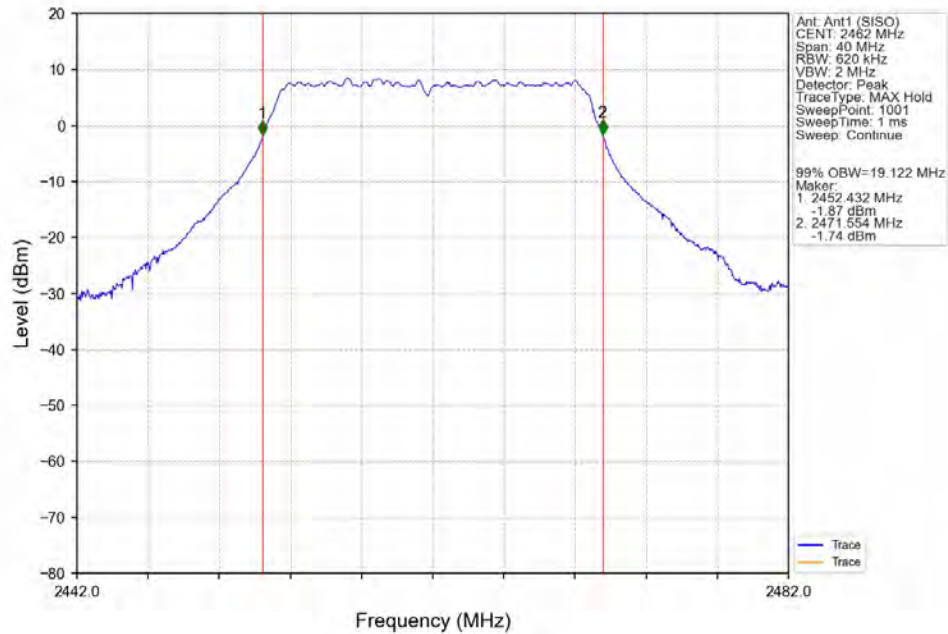
802.11n(HT20) LCH_2412MHz_Ant1 (SISO) NTN



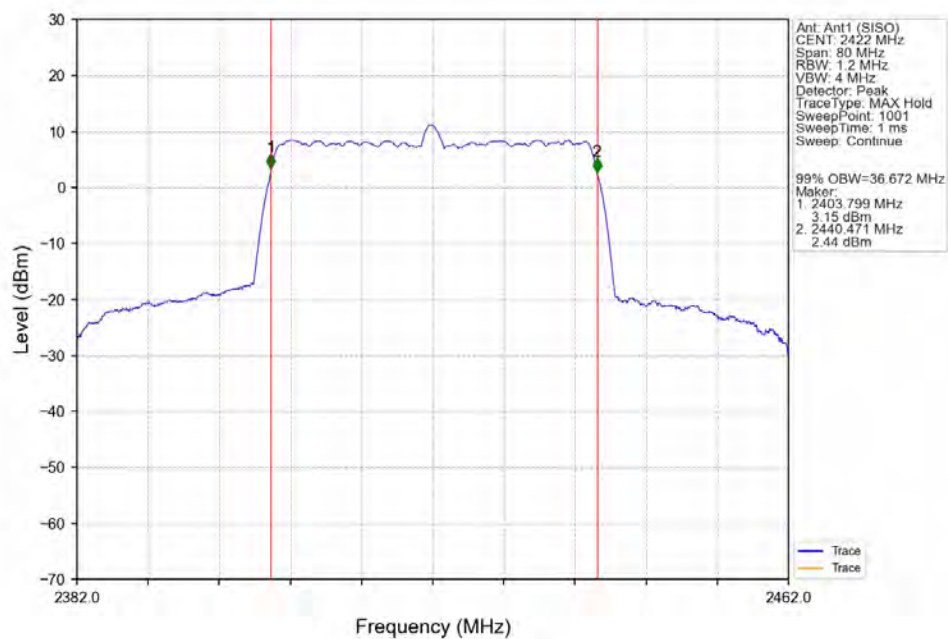
802.11n(HT20) MCH_2437MHz_Ant1 (SISO) NTN



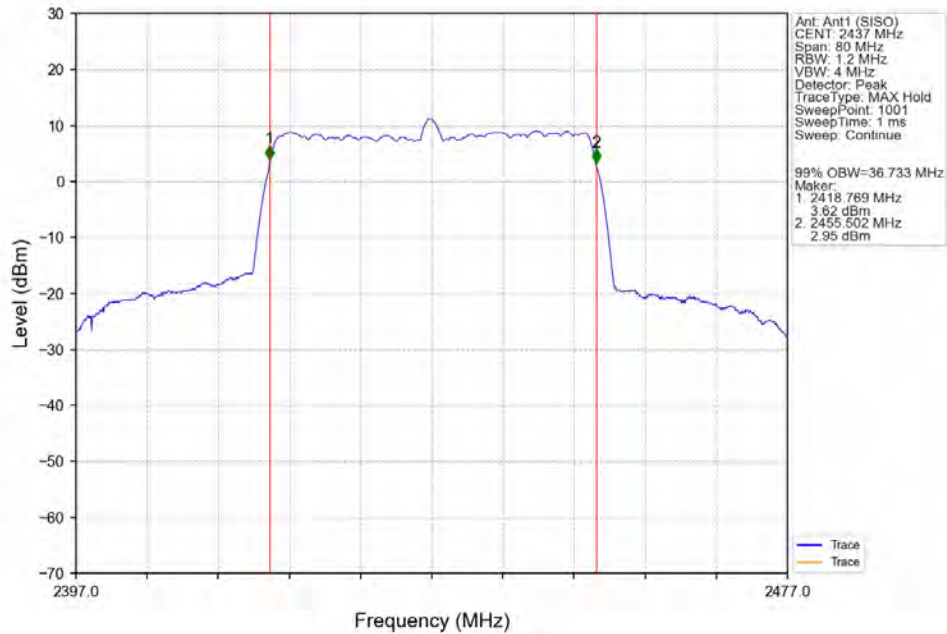
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTN



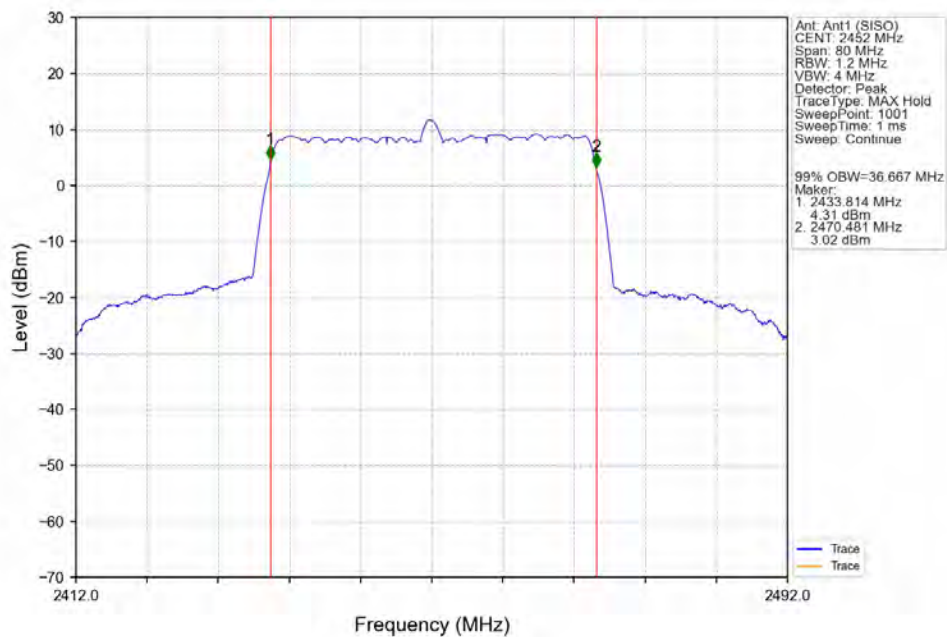
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTN



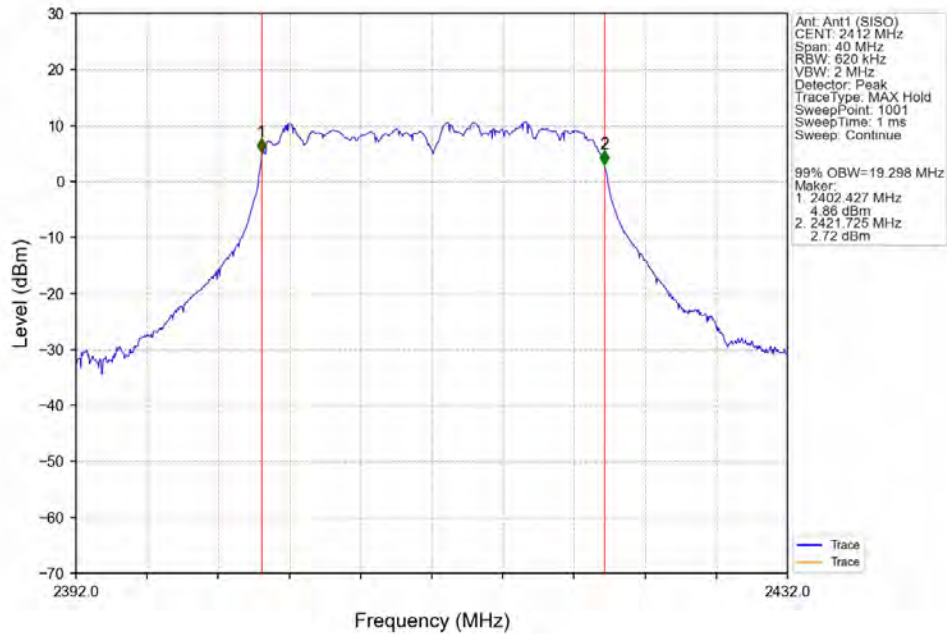
802.11n(HT40) MCH_2437MHz_Ant1 (SISO) NTN



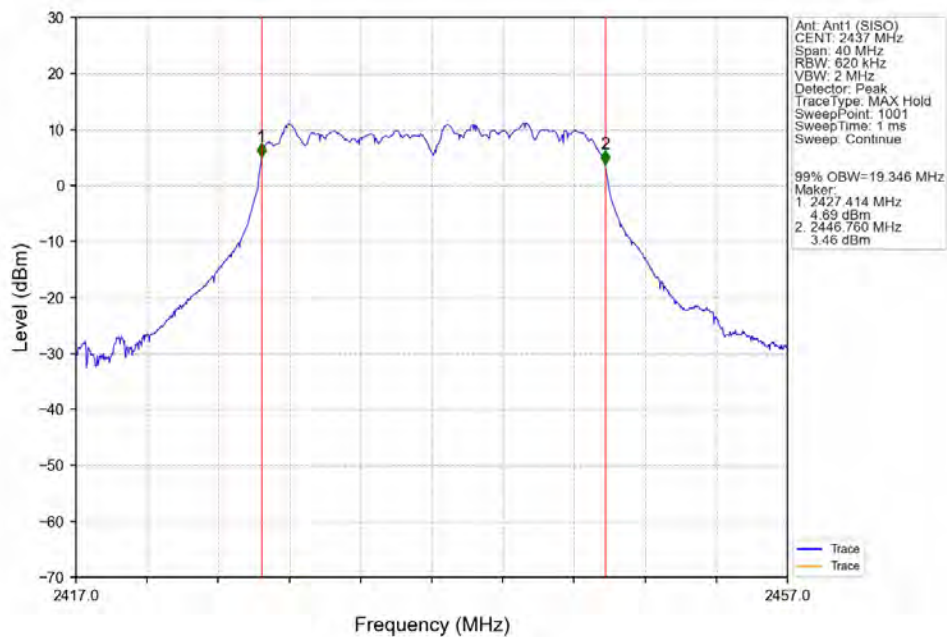
802.11n(HT40) HCH_2452MHz_Ant1 (SISO) NTN



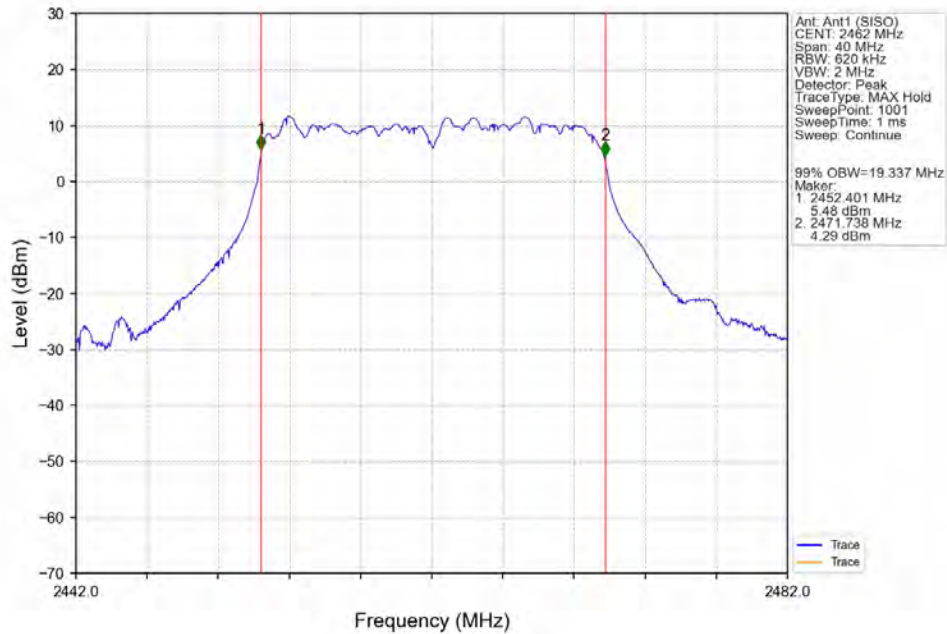
802.11ax(HE20) LCH 2412MHz RU242 Left Ant1 (SISO) NTNV



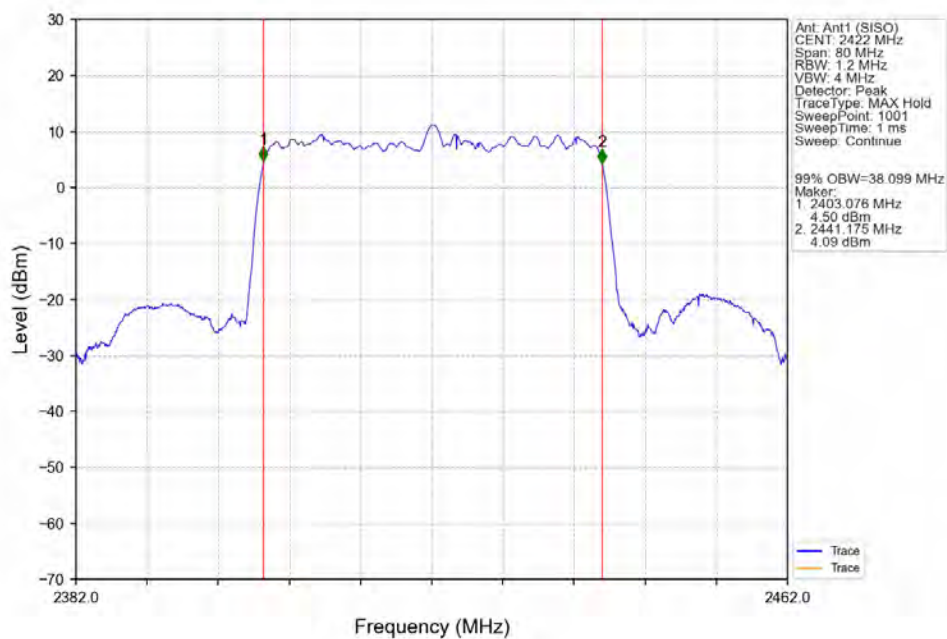
802.11ax(HE20) MCH 2437MHz RU242 Left Ant1 (SISO) NTNV



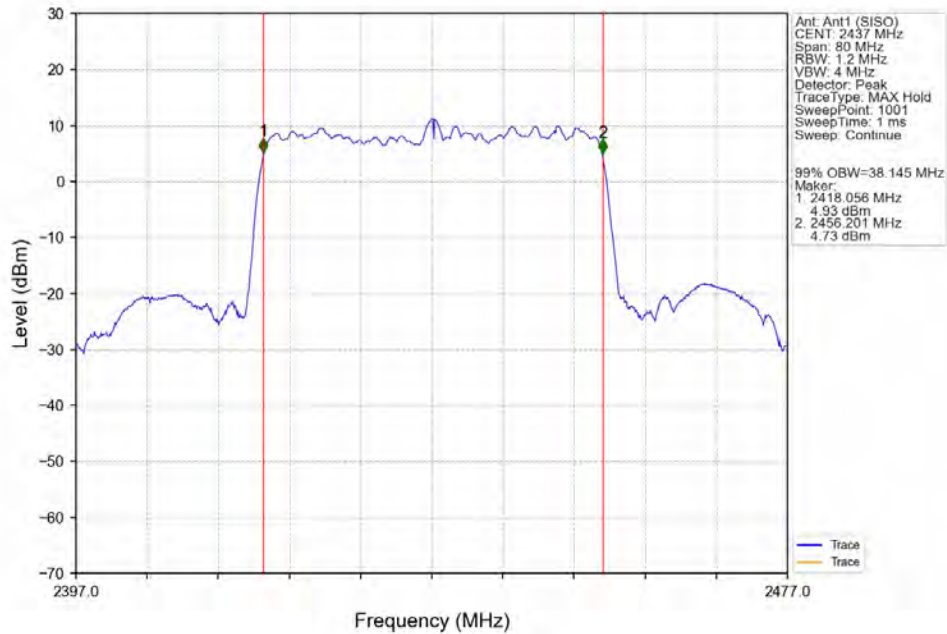
802.11ax(HE20) HCH 2462MHz RU242 Left Ant1 (SISO) NTN



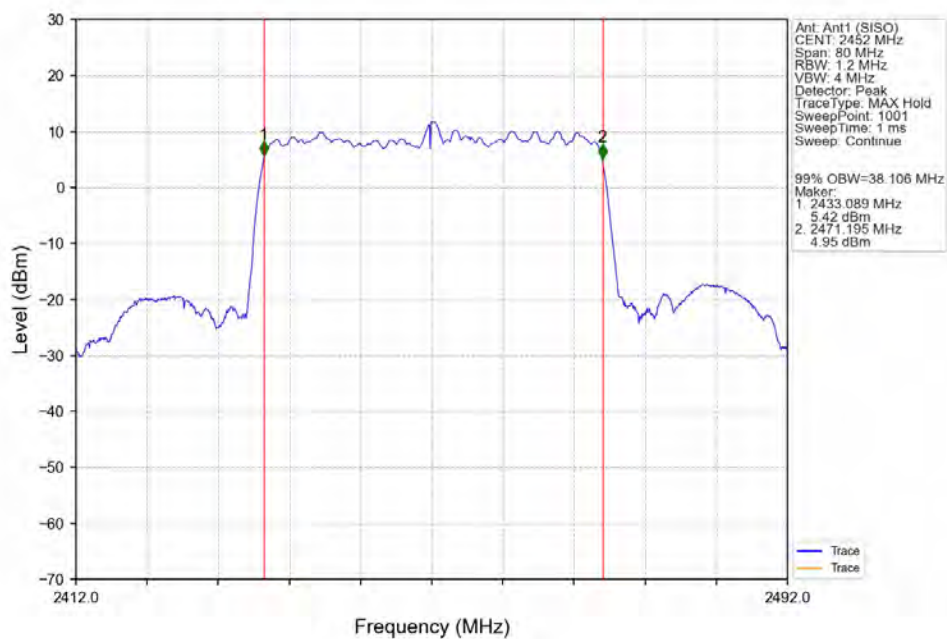
802.11ax(HE40) LCH 2422MHz RU484 Left Ant1 (SISO) NTN



802.11ax(HE40) MCH_2437MHz_RU484_Left_Ant1(SISO)_NTNV

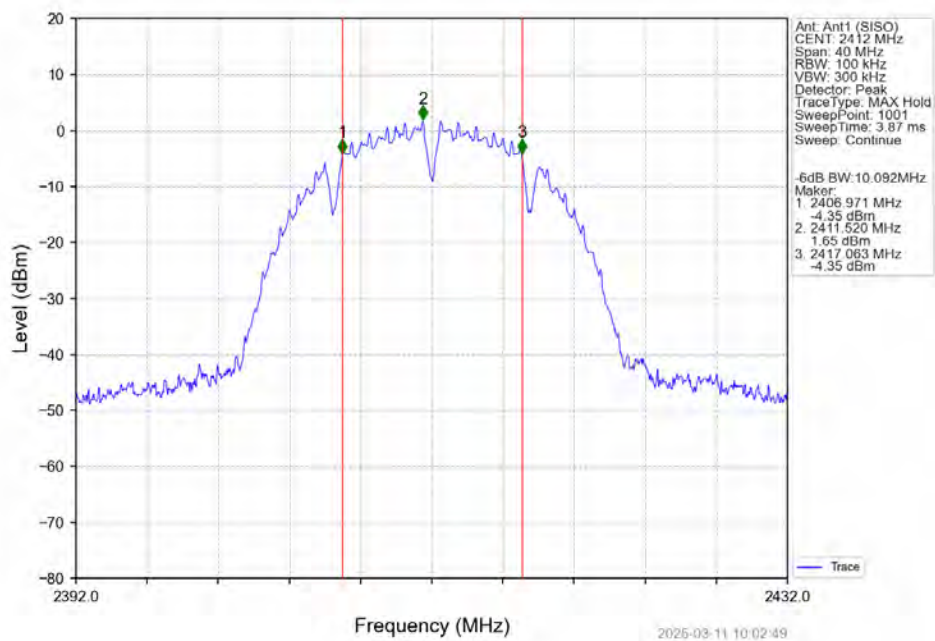


802.11ax(HE40) HCH_2452MHz_RU484_Left_Ant1(SISO)_NTNV

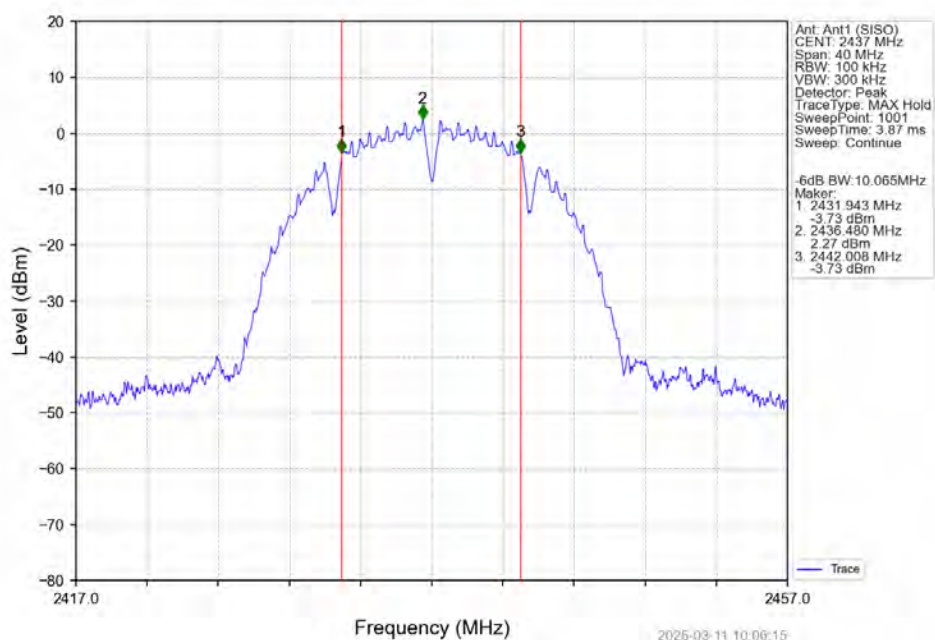


2.2.2 6dB BW

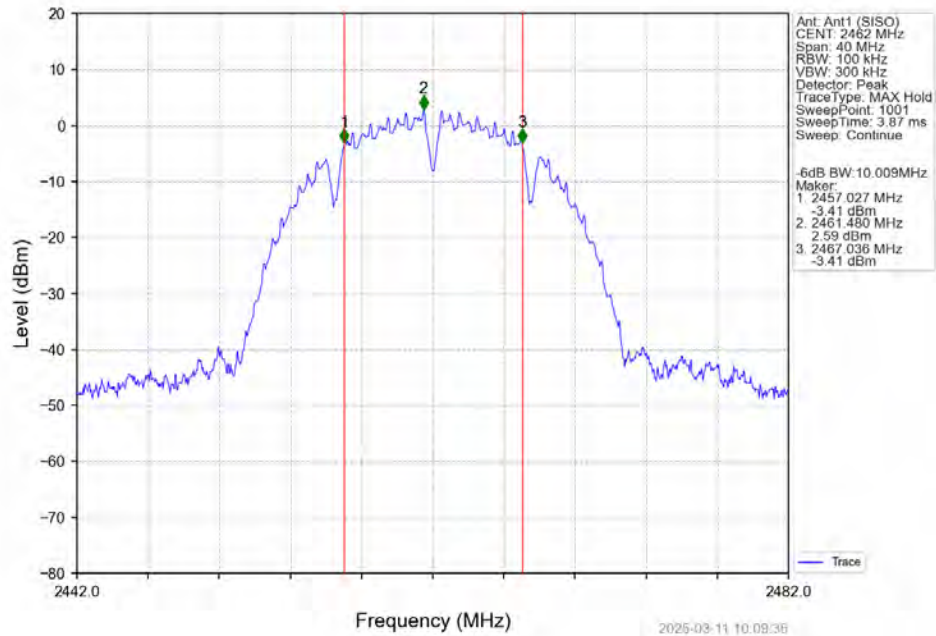
802.11b LCH 2412MHz_Ant1 (SISO)_NTNV



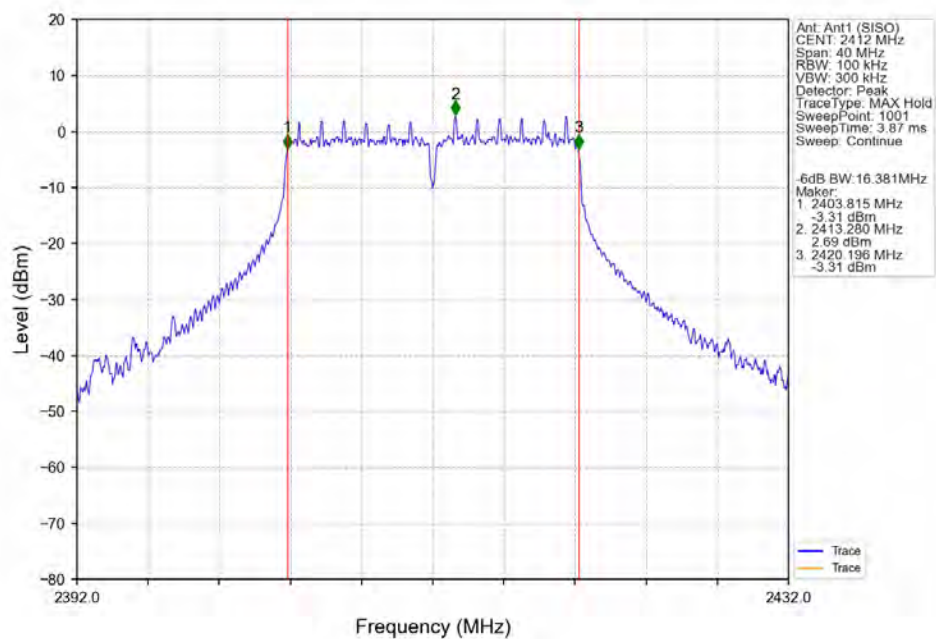
802.11b MCH 2437MHz_Ant1 (SISO)_NTNV



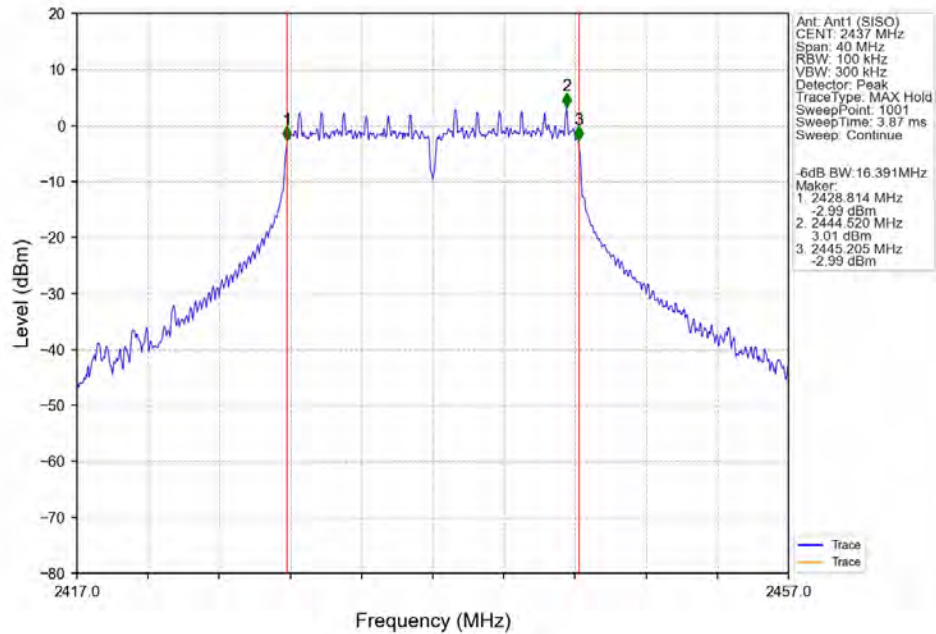
802.11b HCH 2462MHz_Ant1 (SISO)_NTNV



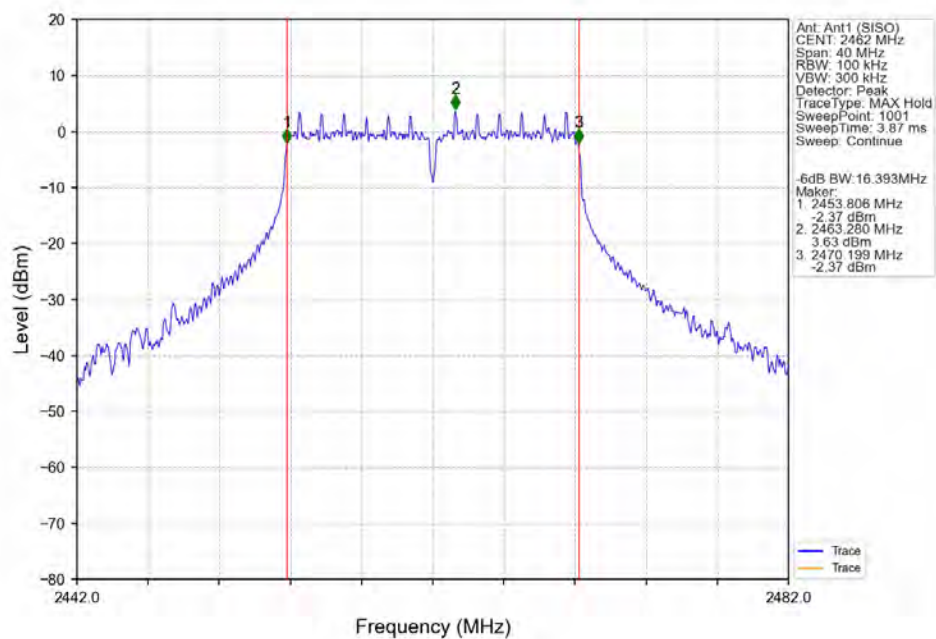
802.11g LCH 2412MHz_Ant1 (SISO)_NTNV



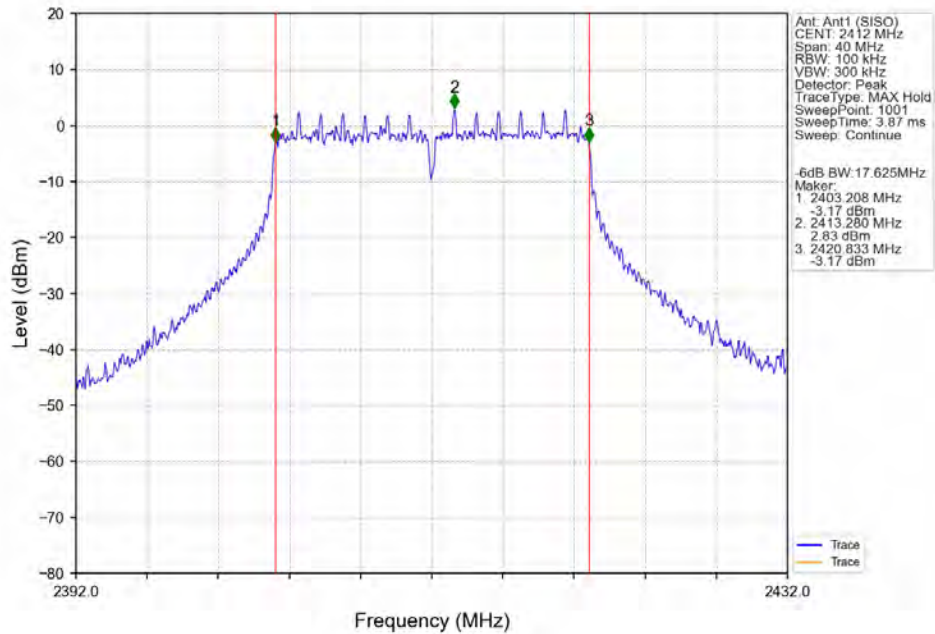
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



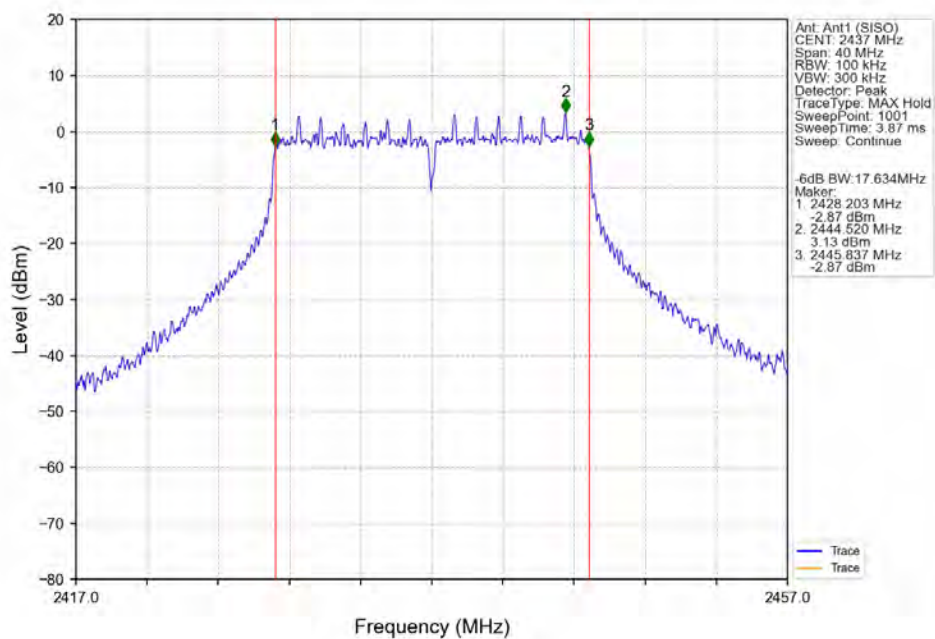
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



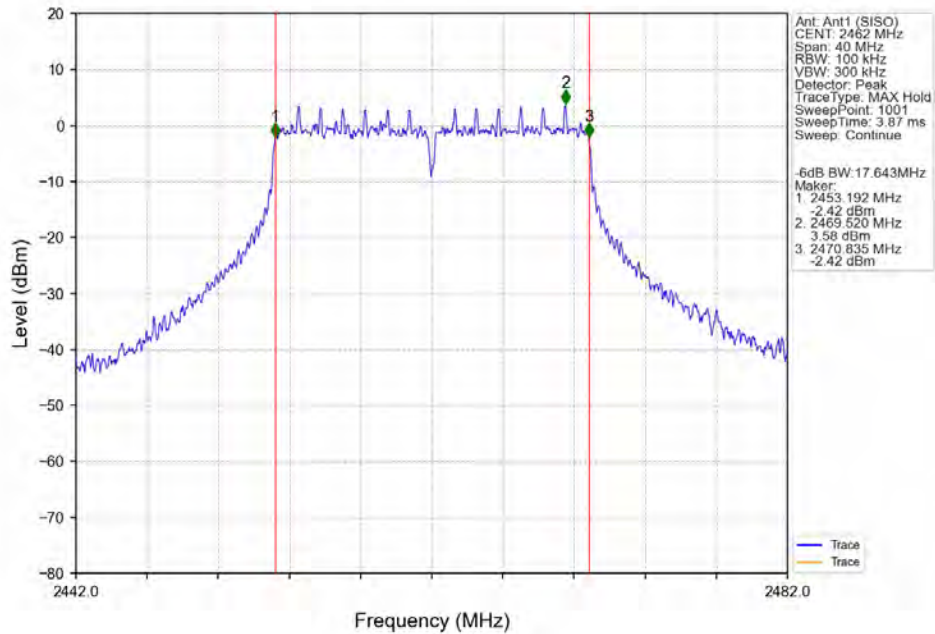
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



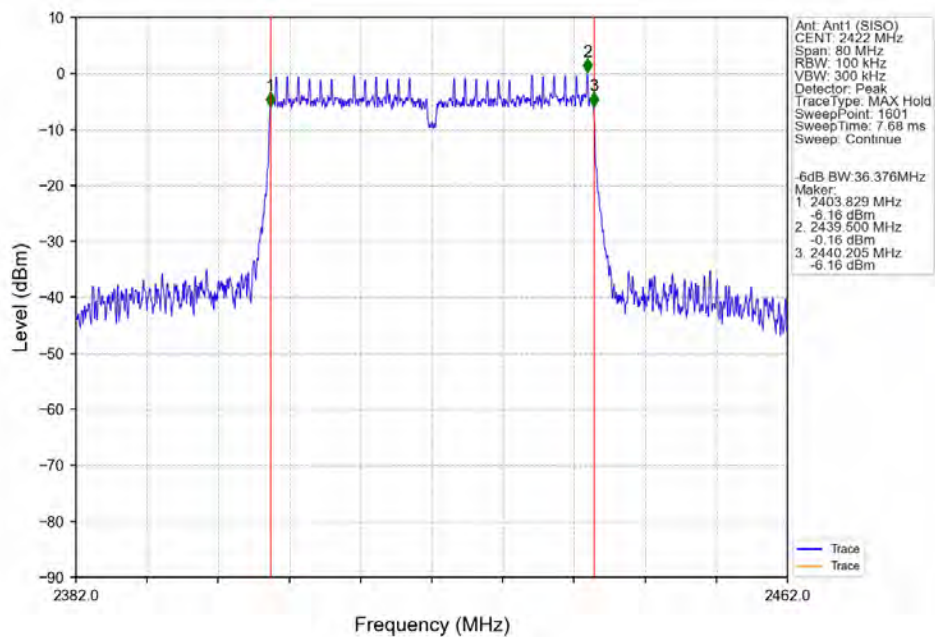
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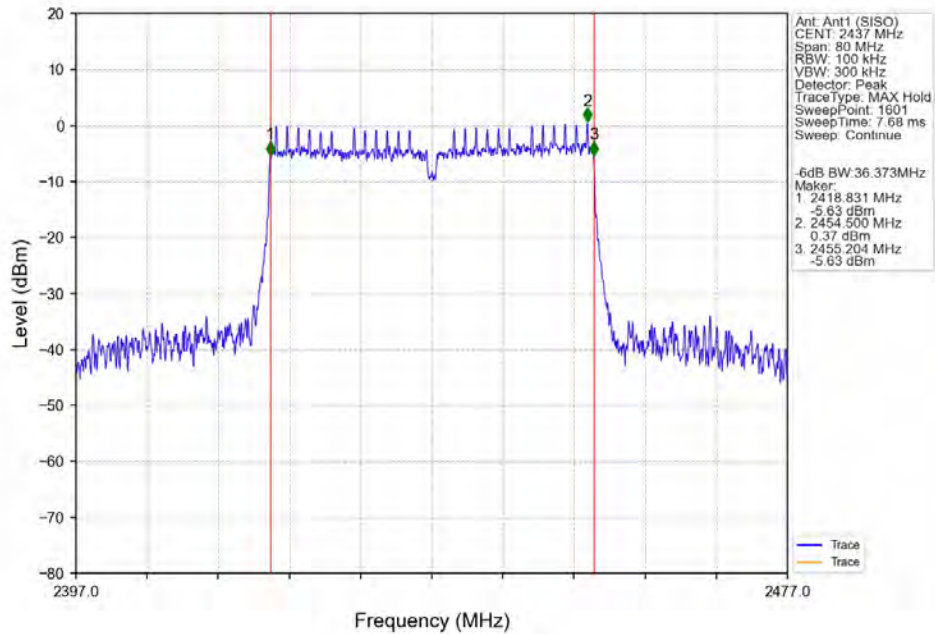
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTN



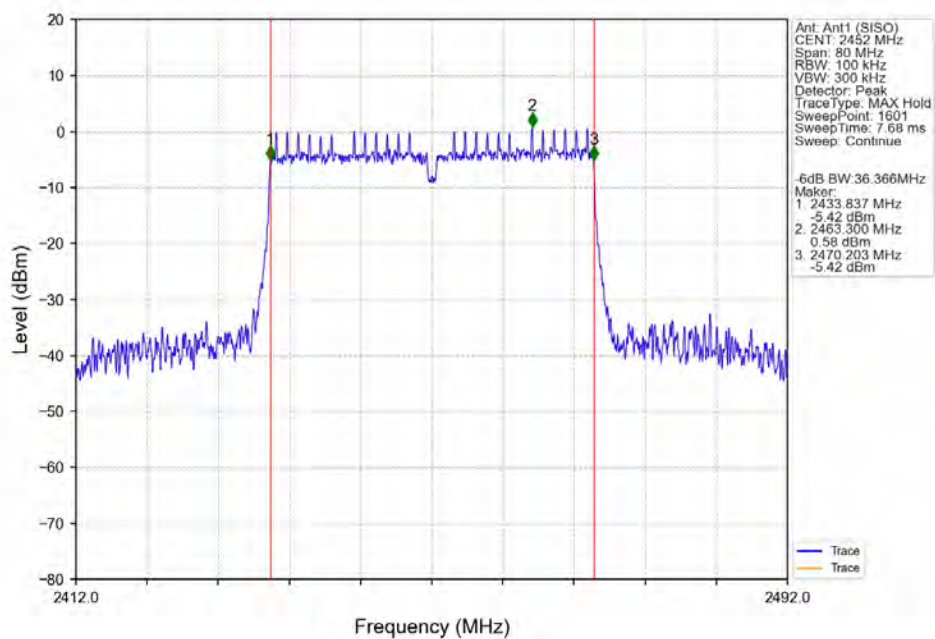
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTN



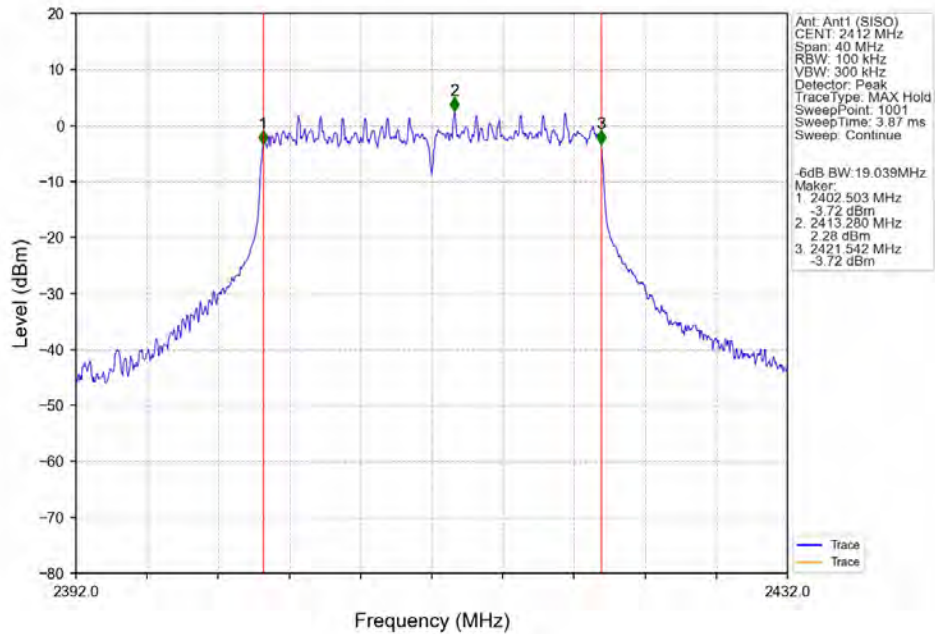
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



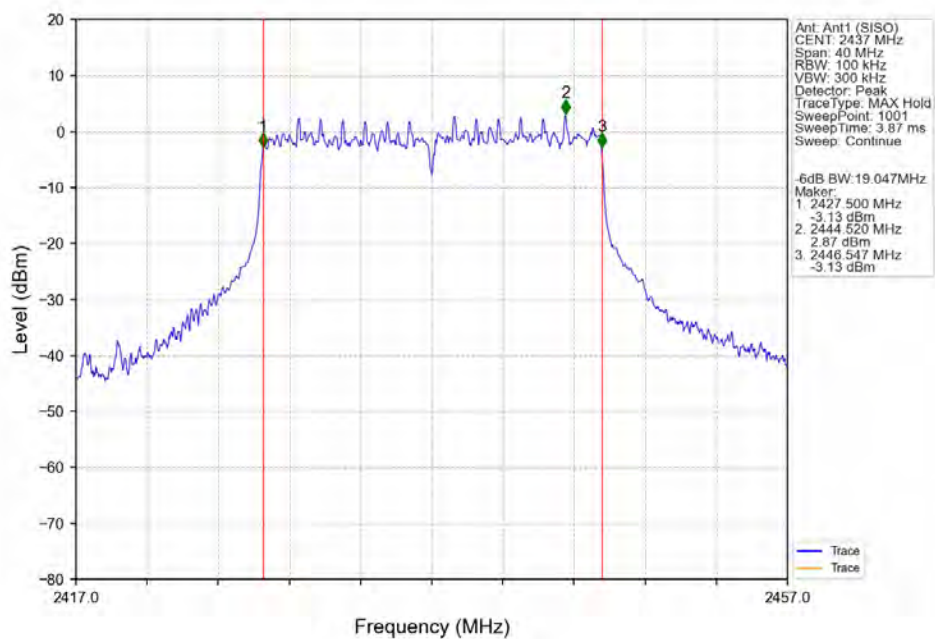
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



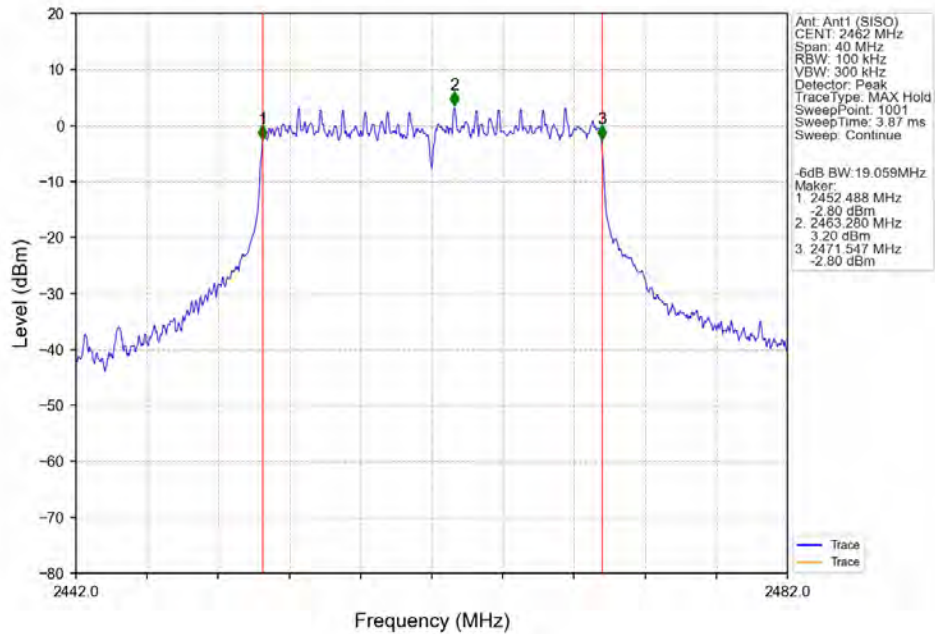
802.11ax(HE20) LCH 2412MHz RU242 Left Ant1 (SISO) NTN



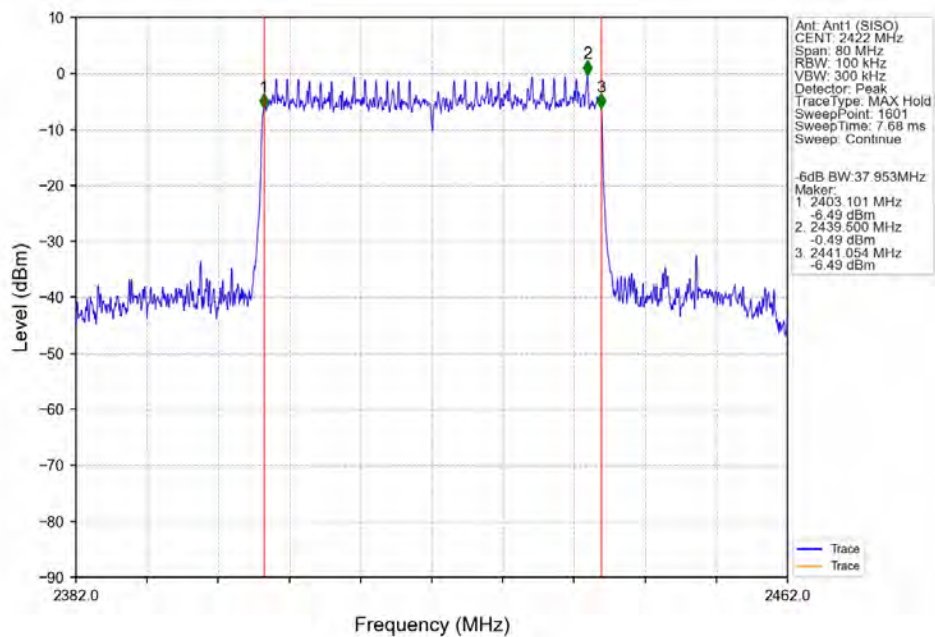
802.11ax(HE20) MCH 2437MHz RU242 Left Ant1 (SISO) NTN



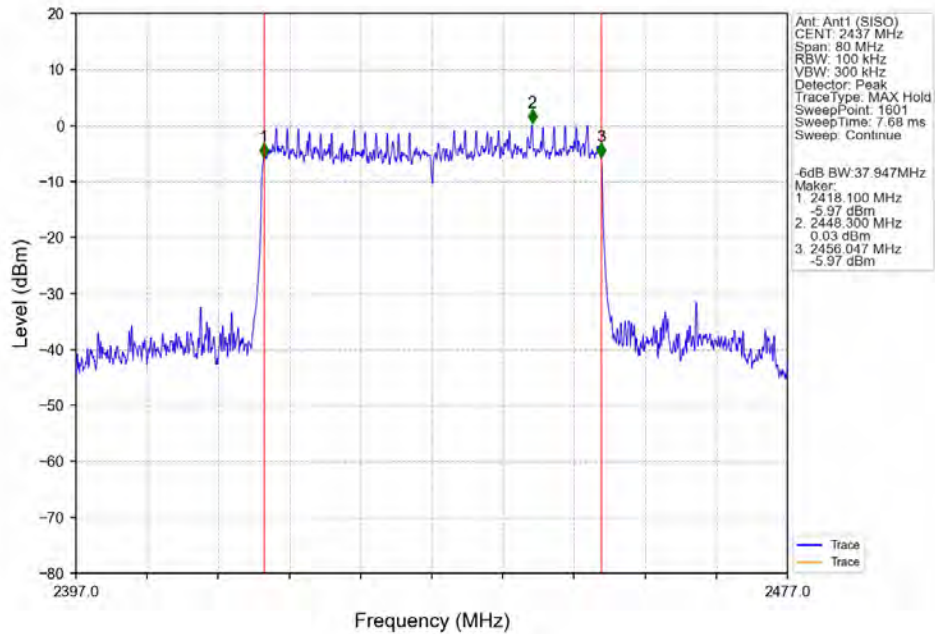
802.11ax(HE20) HCH 2462MHz RU242 Left Ant1 (SISO) NTN



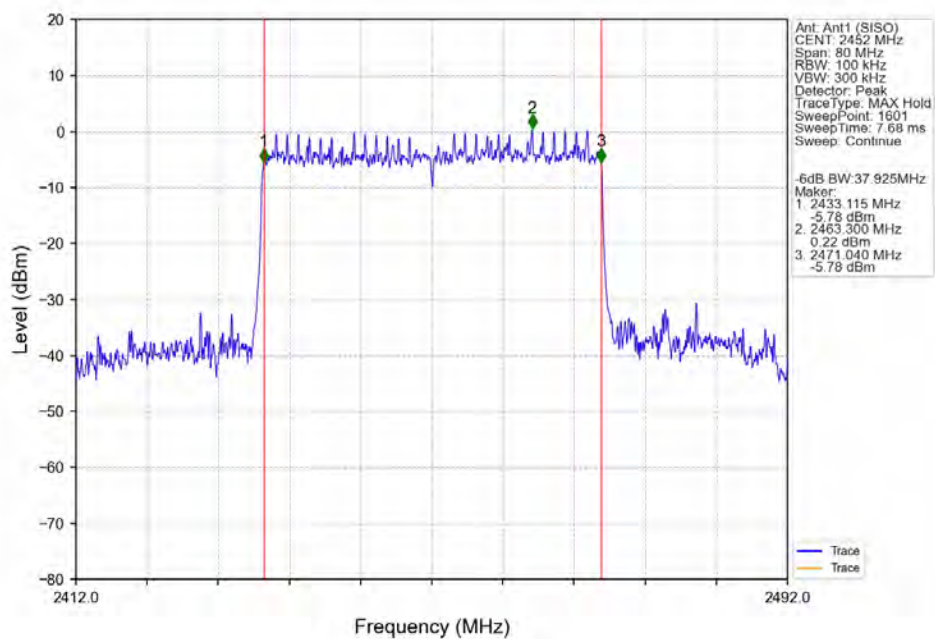
802.11ax(HE40) LCH 2422MHz RU484 Left Ant1 (SISO) NTN



802.11ax(HE40) MCH_2437MHz_RU484_Left_Ant1(SISO)_NTNV



802.11ax(HE40) HCH_2452MHz_RU484_Left_Ant1(SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

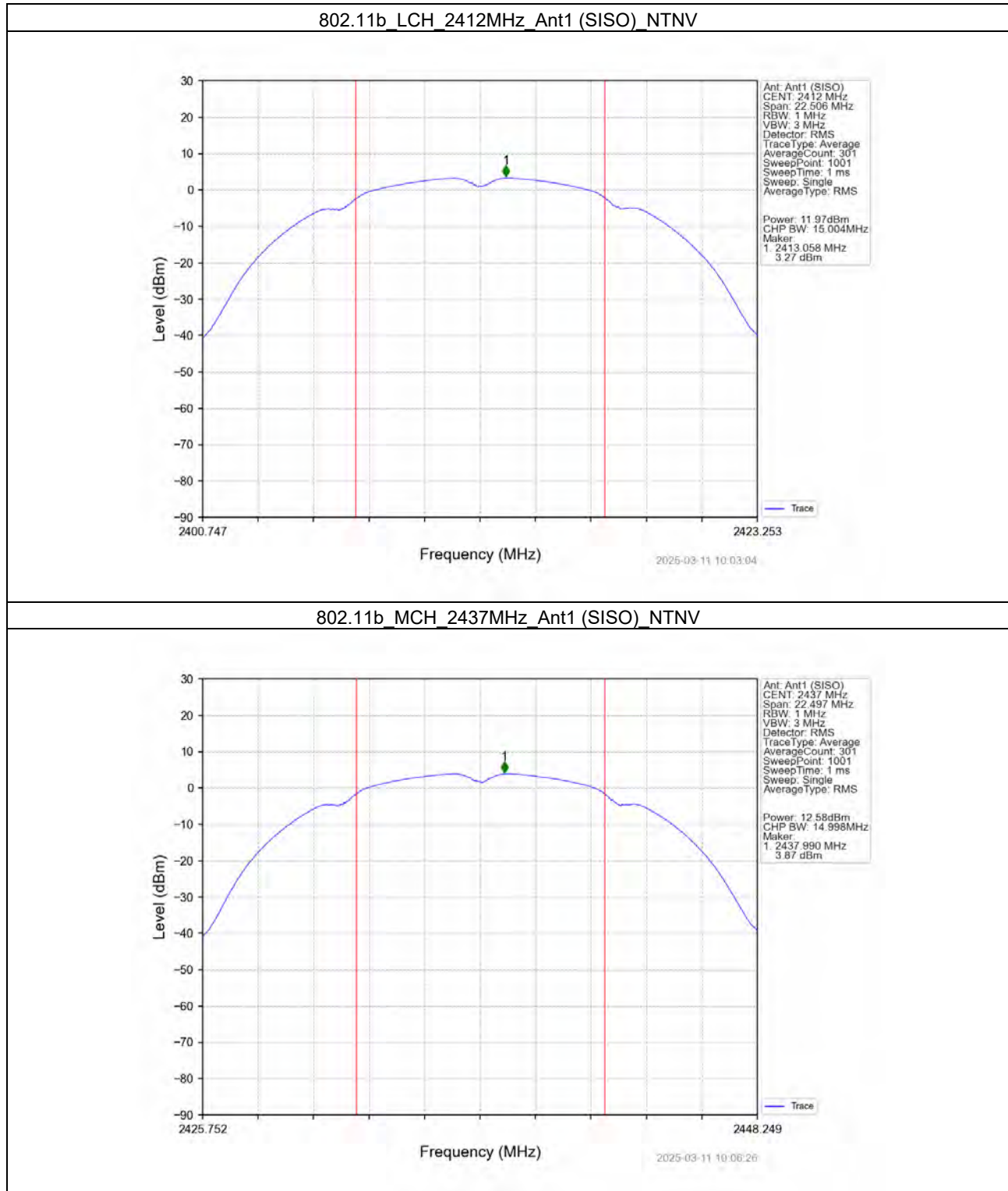
3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	11.97	<=30	Pass
		2437	/	/	12.58	<=30	Pass
		2462	/	/	12.89	<=30	Pass
802.11g	SISO	2412	/	/	13.82	<=30	Pass
		2437	/	/	14.01	<=30	Pass
		2462	/	/	14.78	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	13.95	<=30	Pass
		2437	/	/	14.23	<=30	Pass
		2462	/	/	14.78	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	13.89	<=30	Pass
		2437	/	/	14.19	<=30	Pass
		2452	/	/	14.50	<=30	Pass
802.11ax (HE20)	SISO	2412	RU242	Left	13.62	<=30	Pass
		2437	RU242	Left	14.12	<=30	Pass
		2462	RU242	Left	14.64	<=30	Pass
802.11ax (HE40)	SISO	2422	RU484	Left	13.82	<=30	Pass
		2437	RU484	Left	14.12	<=30	Pass
		2452	RU484	Left	14.46	<=30	Pass

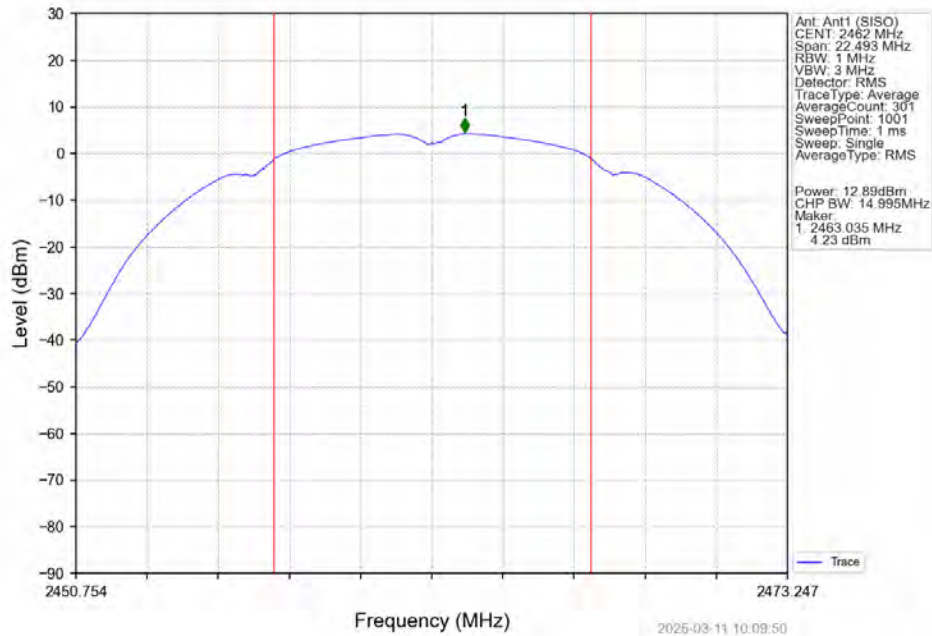
Note1: Antenna Gain: Ant1: 3.30dBi;

3.2 Test Graph

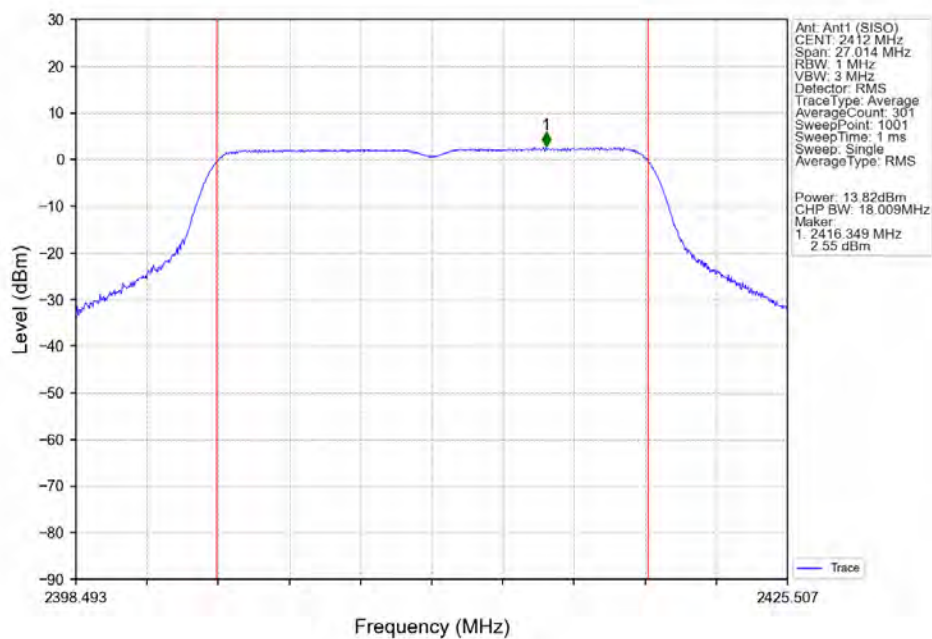
3.2.1 Power



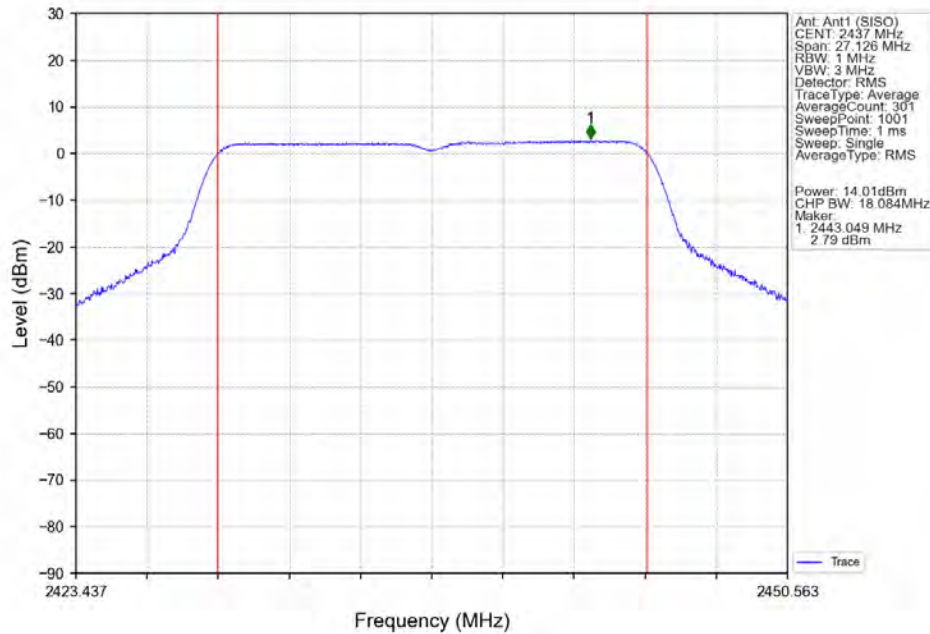
802.11b HCH 2462MHz Ant1 (SISO) NTN



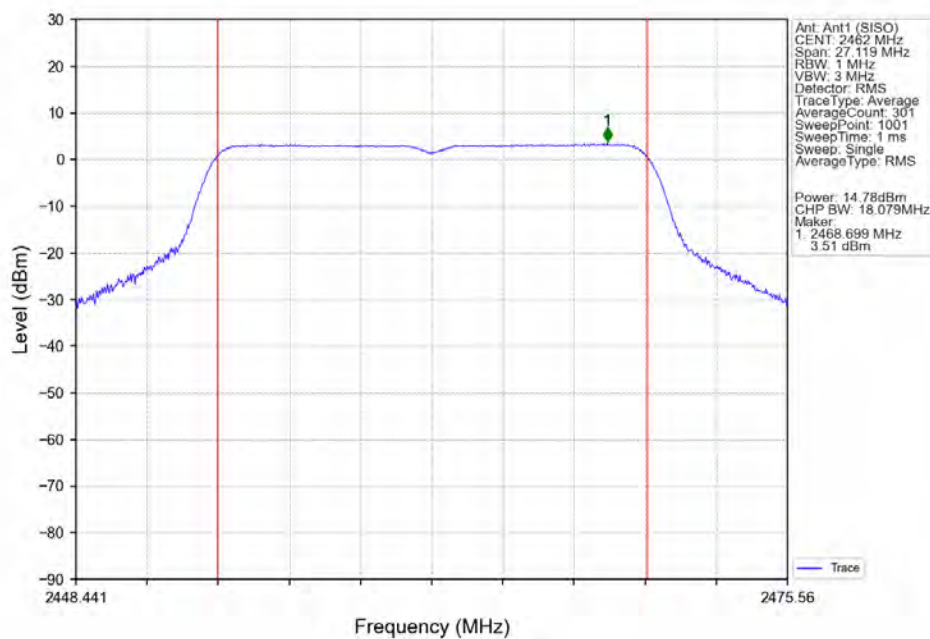
802.11g LCH 2412MHz Ant1 (SISO) NTN



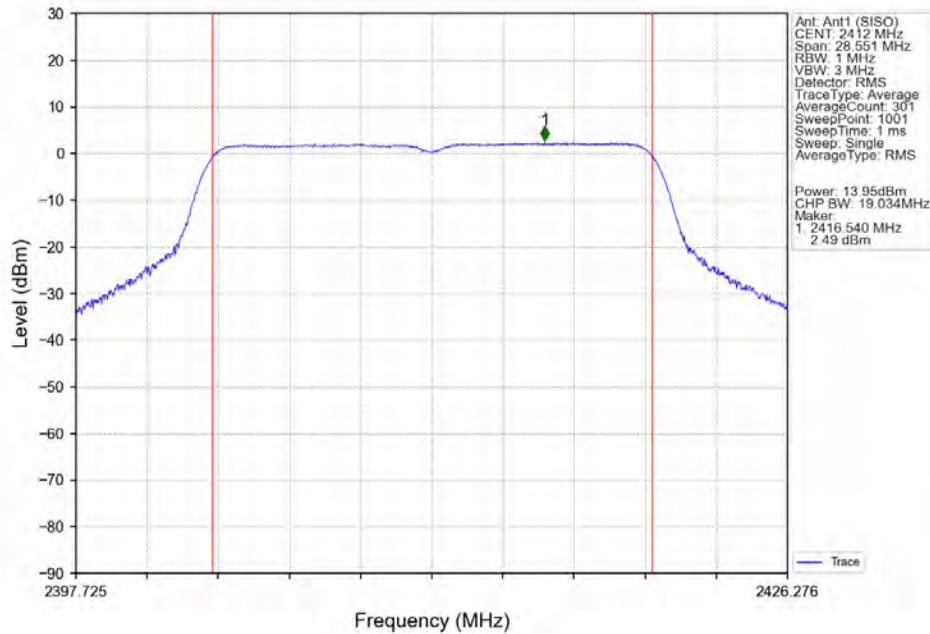
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



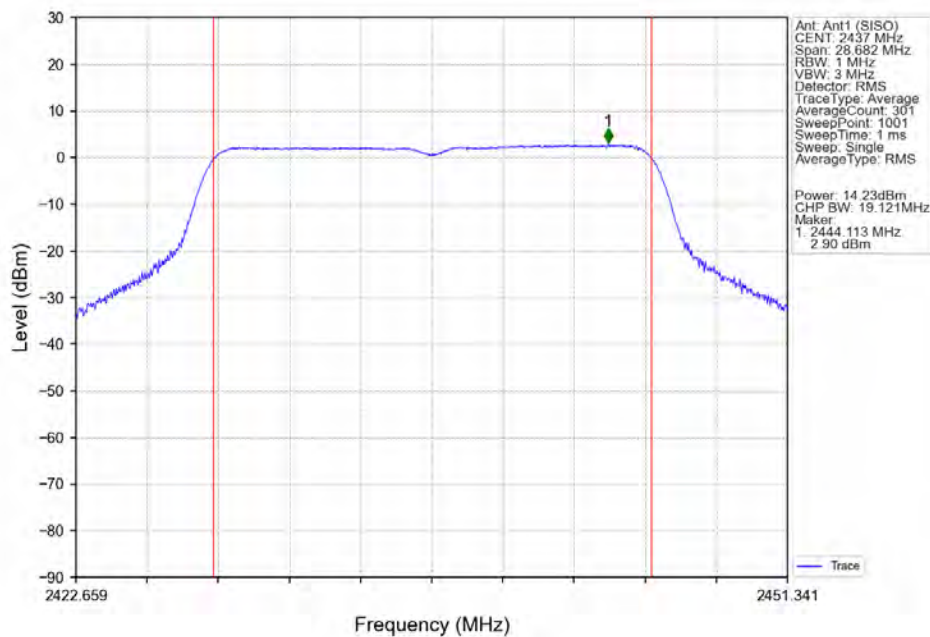
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



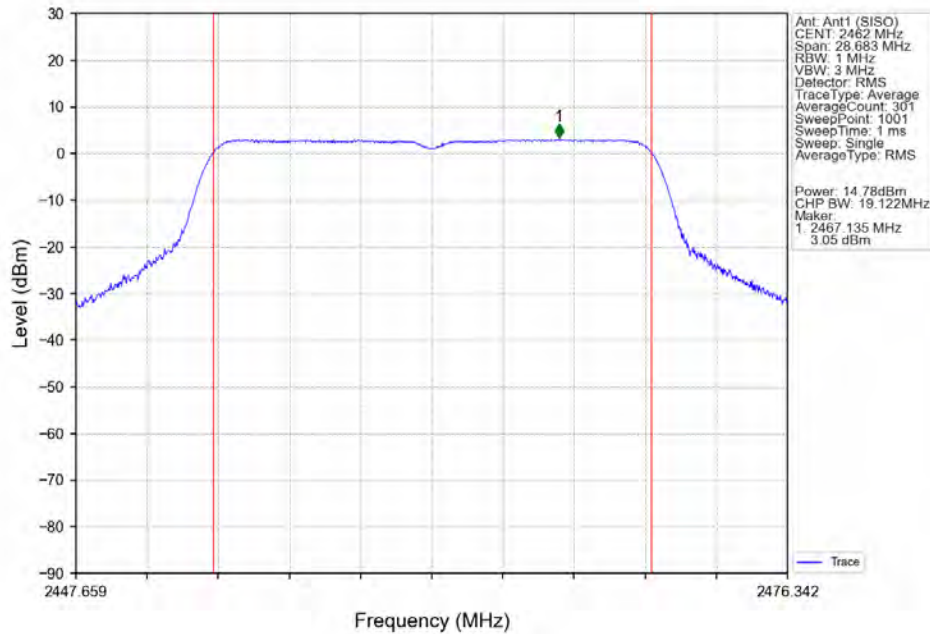
802.11n(HT20) LCH_2412MHz_Ant1 (SISO) NTN



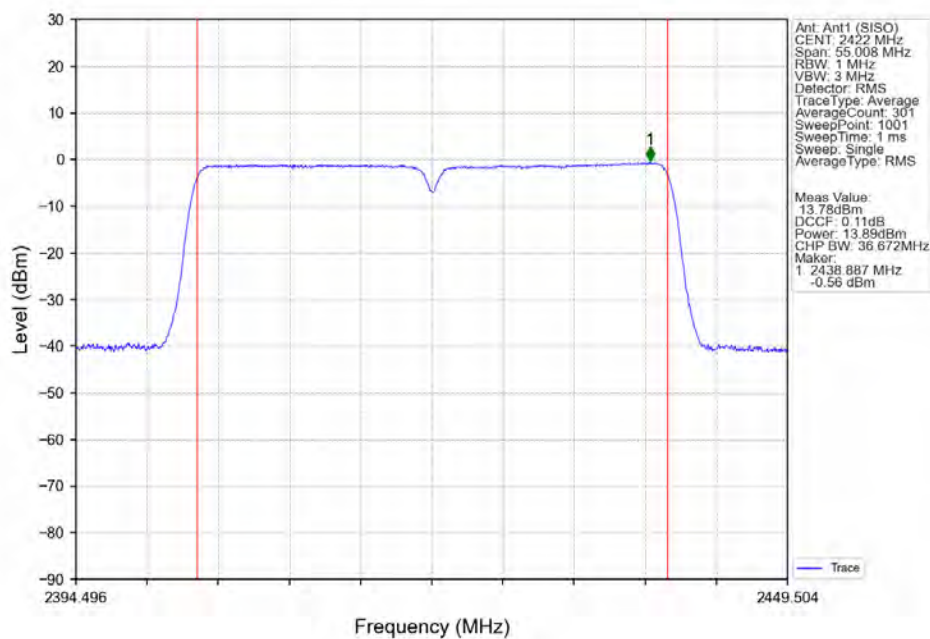
802.11n(HT20) MCH_2437MHz_Ant1 (SISO) NTN



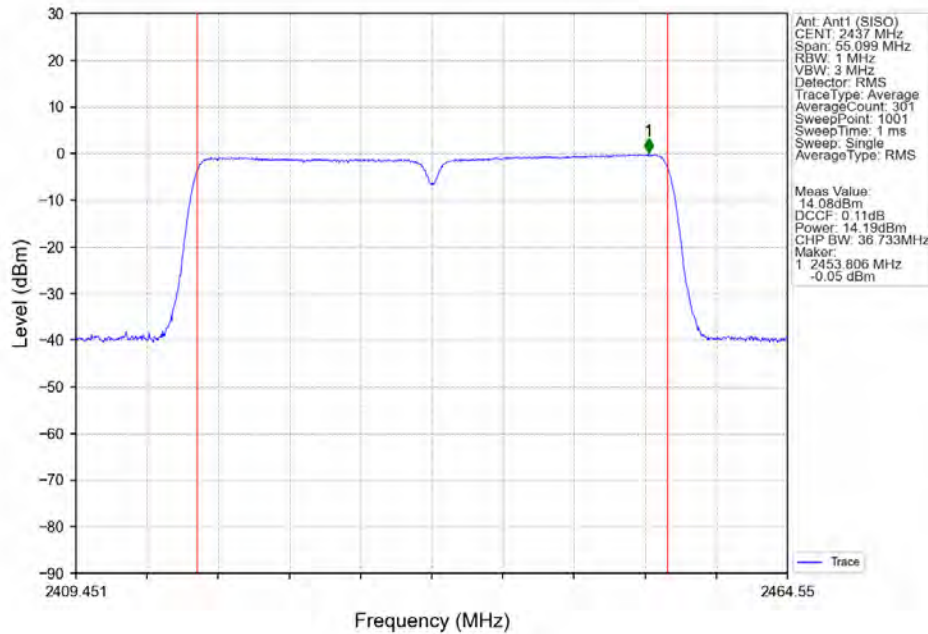
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTN



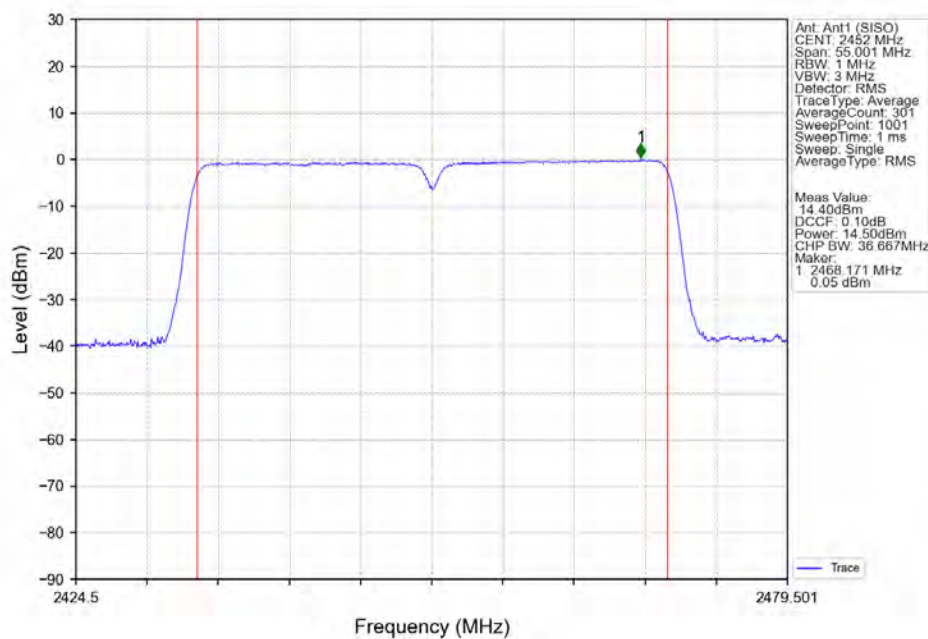
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTN



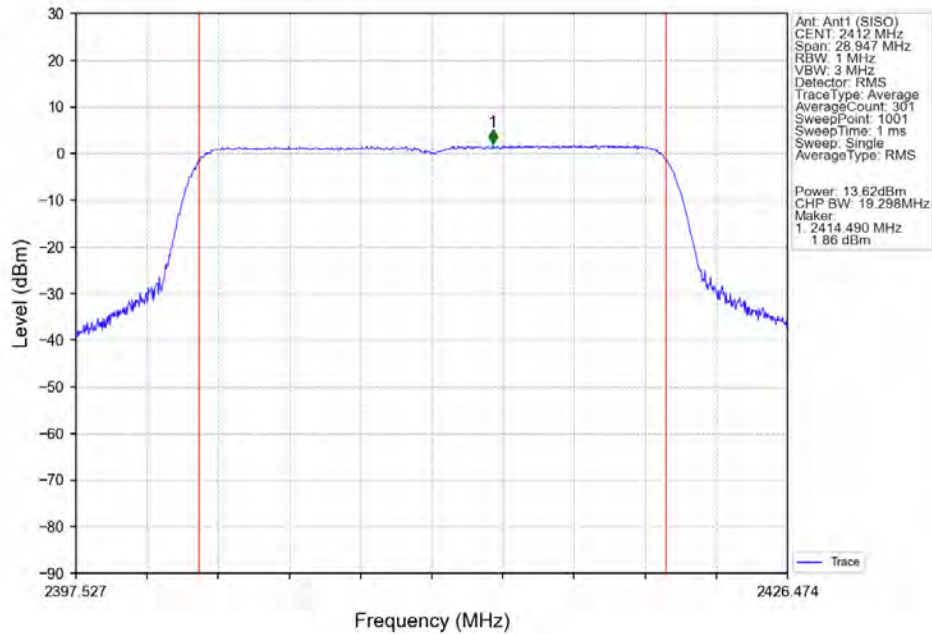
802.11n(HT40) MCH_2437MHz_Ant1 (SISO) NTN



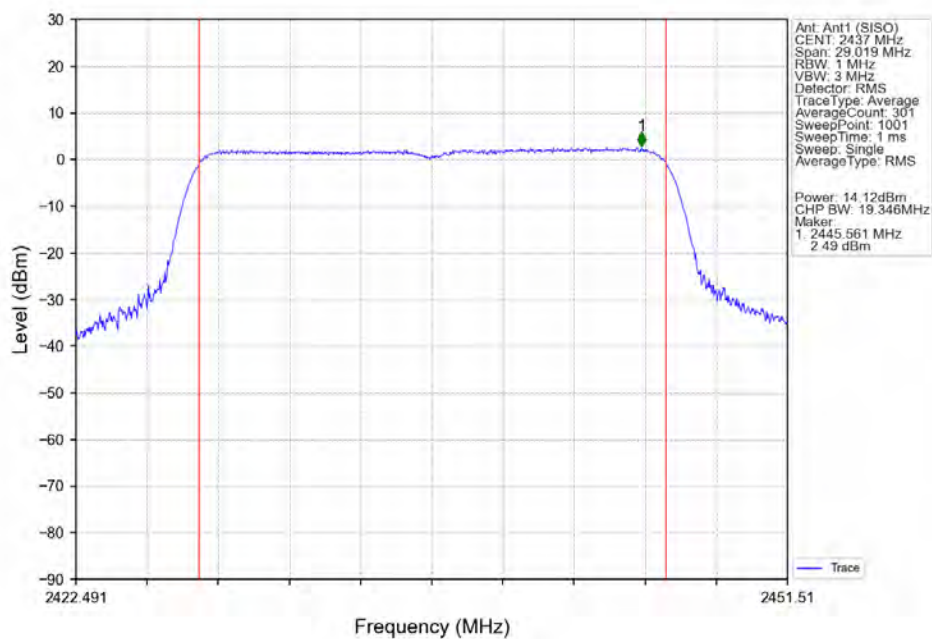
802.11n(HT40) HCH_2452MHz_Ant1 (SISO) NTN



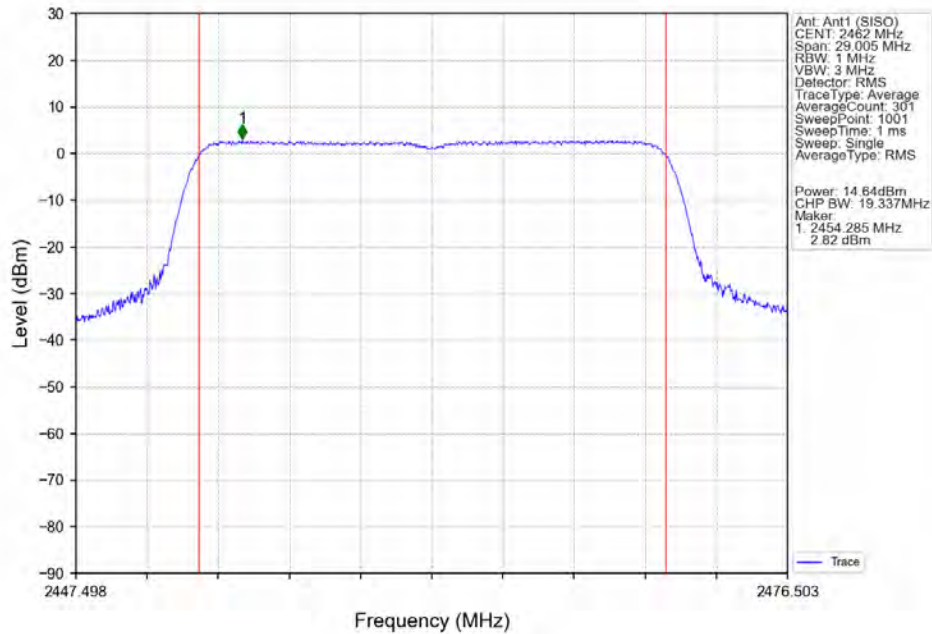
802.11ax(HE20) LCH 2412MHz RU242 Left Ant1 (SISO) NTNV



802.11ax(HE20) MCH 2437MHz RU242 Left Ant1 (SISO) NTNV



802.11ax(HE20) HCH 2462MHz RU242 Left Ant1 (SISO) NTVN



802.11ax(HE40) LCH 2422MHz RU484 Left Ant1 (SISO) NTVN

