DEKRA Testing and Certification (Suzhou) Co., Ltd.
No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006, Jiangsu, China
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098

Test report No:
2480675R-RF-US-P06V01

FCC & ISED TEST REPORT

Product Name	WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module
Trademark	COMPEX
Model and /or type reference	WLE7002E25, WLTE7002E25, WLTB7002E25
FCC ID	TK4WLE7002E25
IC	7849A-WLE7002E25
Applicant´s name / address	Compex Systems Pte Ltd No 178 Paya Lebar Road #05-05 Singapore 409030
Test method requested, standard	47 CFR FCC Part 15 (Section 15.247) ANSI C63.10: 2013 RSS-Gen Issue 5 RSS-247 Issue 3
Verdict Summary	IN COMPLIANCE
Tested By (name / position & signature)	Jun Xu/Project Engineer
Approved by (name / position & signature)	Jack Zhang/ Manager
Date of issue	2024-10-29
Report Version	V1.0
Report template No	Template_FCC Part 15C-RF-V1.0

INDEX

page

General conditions 4
Environmental conditions 4
Possible test case verdicts 5
Abbreviations 5
Document History 6
Remarks and Comments 6
Used Equipment 7
Uncertainty 9
1 General Information 10
1.1 General Description of the Item(s) 10
1.2 Antenna Information 11
1.3 Data Rate 13
1.4 Channel List 16
2 Description of Test Setup 17
2.1 Operating mode(s) used for tests 17
2.2 Auxiliary equipment / Test software for the EUT 18
2.3 Test Configuration / Block diagram used for tests 19
2.4 Testing process 20
3 Verdict summary section 21
3.1 Standards 21
3.2 Deviation(s) from the Standard(s) / Test Specification(s) 21
3.3 Overview of results 22
3.4 Test Matrix 24
3.5 Test Facility 25
4 Test Results 26
4.1 Emissions in restricted frequency bands 26
4.1.1 Limit 26
4.1.2 Test Setup 28
4.1.3 Test Procedure 29
4.2 Emissions in non-restricted frequency band 30
4.2.1 Limit 30
4.2.2 Test Setup 30
4.2.3 Test Procedure 30
4.3 Duty cycle 31

4.3.1 Limit 31
4.3.2 Test Setup 31
4.3.3 Test Procedure 31
4.4 Radiated Emission Band Edge 32
4.4.1 Limit 32
4.4.2 Test Setup 32
4.4.3 Test Procedure 33
4.5 DTS Bandwidth 34
4.5.1 Limit 34
4.5.2 Test Setup 34
4.5.3 Test Procedure 34
4.6 Fundamental emission output power 35
4.6.1 Limit 35
4.6.2 Test Setup 35
4.6.3 Test Procedure 36
4.7 Power Density 38
4.7.1 Limit: 38
4.7.2 Test Setup 38
4.7.3 Test Procedure 38
4.8 AC Power Line Conducted Emission 40
4.8.1 Limit 40
4.8.2 Test Setup 40
4.8.3 Test Procedure 40
4.9 Antenna Requirement 41
4.9.1 Limit: 41
4.9.2 Antenna Connector Construction: 41
5 Test setup photo and EUT Photo 42
6 Test Result 43
Appendix A: DTS Bandwidth 43
Appendix B: Occupied Channel Bandwidth 56
Appendix C: Maximum conducted output power 69
Appendix D: Maximum power spectral density 72
Appendix E: Band edge measurements 74
Appendix F: Conducted Spurious Emission 138
Appendix G: Duty Cycle 323
Appendix H: Emissions in Restricted Bands 336

COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.
In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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GENERAL CONDITIONS

Test Location	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Date(receive sample)	Aug. 26, 2024
Date (start test)	Aug. 27, 2024
Date (finish test)	Sep. 30, 2024

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.
5. The 2.4G WLAN part of AirEngine6761-21T is exactly the same as AirEngine5761-11, so we only verified the power and AC Power Line Conducted Emission, and other data are quoted from AirEngine5761-11.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	:	Equipment Under Test
QP	:	Quasi-Peak
CAV	:	CISPR Average
AV	:	Average
CDN	:	Coupling Decoupling Network
SAC	:	Semi-Anechoic Chamber
OATS	:	Open Area Test Site
BW	:	Bandwidth
AM	:	Amplitude Modulation
PM	:	Pulse Modulation
HCP	:	Horizontal Coupling Plane
VCP	:	Vertical Coupling Plane
U_N	:	Nominal voltage
*T*x	:	Transmitter
*R*x	:	Receiver
N/A	:	Not Applicable
N/M	:	Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2480675R-RF-US-P06V01	V1.0	Initial issue of report.	2024-10-29

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with 47 CFR FCC Part 15 (Section 15.247),RSS-247 Issue 3. RSS-Gen Issue 5.
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:

- Chapter 1.1 General Description of the Item(s);
- Chapter 1.2 Antenna Informaion;
- Chapter 1.3 Data Rate;
- Chapter 1.4 Channel List;

USED EQUIPMENT

Conducted Test/ TR8

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Versiom	Software version
Wireless Connectivity Tester	R&S	CMW 270	102593	2024.05.15	2025.05.14	V 4.0.60	N/A
Coaxial Cable	N/A	N/A	2477	2024.06.11	2025.06.10	N/A	N/A
Coaxial Cable	N/A	N/A	2478	2024.06.11	2025.06.10	N/A	N/A
High and low temperature and fast temperature change test box	ASTUOD	ASTD-FBT-225K	N/A	2024.04.21	2025.04.20	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	RF07	2024.07.04	2025.07.03	N/A	N/A
Test system							
Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Versiom	Software version
MAX Signal Analyzer	Keysight	N9010A	MY48030494	2023.11.08	2024.11.07	A.14.03	N/A
RF Control Unit	Tonscend	JS0806-2	22G8060594	2024.02.06	2025.02.05	N/A	N/A
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY61252529	2024.05.12	2025.05.11	B.01.96	N/A
Frequency extender for EXG or MXG	Keysight	N5182BX07	MY59362500	2024.05.12	2025.05.11	N/A	N/A
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY61252566	2024.07.06	2025.07.05	B.01.95	N/A
Test Software	Tonscend	TS1120	JS1120-3	N/A	N/A	N/A	V3.0.22

Radiated Emission(9KHz-1GHz) / AC2

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Versiom	Software version
EMI Test Receiver	R&S	ESCI	100176	2024.05.12	2025.05.11	4.42 SP3	N/A
Loop Antenna	R&S	HFH2-Z2E	101149	2024.03.27	2025.03.26	N/A	N/A
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2024.03.20	2025.03.19	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	AC2-TH	2024.07.04	2025.07.03	N/A	N/A
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2024.02.29	2025.02.28	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

Radiated Emission (1GHz-40GHz) / AC5

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Versiom	Software version
EXA Spectrum Analyzer	Keysight	N9020B	MY60112218	2023.11.08	2024.11.07	A.31.05	N/A
Pre-Amplifier	SKET	LNPA_0118 G-45	SK20210901 01	2024.04.27	2025.04.26	N/A	N/A
Preamplifier	CHENGYI	EMC184045 SE	980263	2024.07.06	2025.07.05	N/A	N/A
DRG Horn	ETS-Lindgren	3117	00167055	2023.09.16	2024.09.15	N/A	N/A
DRG Horn	ETS-Lindgren	3117	00167055	2024.08.29	2025.08.28	N/A	N/A
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2024.05.30	2025.05.29	N/A	N/A
Filter Switch Box	MVE	MSW-F196	C070001S	2024.04.20	2025.04.19	N/A	N/A
Temperature / Humidity Meter	RTS	RTS-8S	AC5-TH	2024.07.04	2025.07.03	N/A	N/A
Coaxial Cable	ROSENBERGER	LA1-C011-2000/3000	AC5-40G	2024.01.25	2025.01.24	N/A	N/A
Coaxial Cable	ROSENBERGER	LA1-C011-2000/3000	AC5-40G-2	2024.05.26	2025.05.25	N/A	N/A
Cable	Rosenberger	LA1-C011-1000	0523	2024.05.26	2025.05.25	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

Test item	Uncertainty
AC Power Line Conducted Emission	± 2.92 dB
Peak Power Output	± 1.13 dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~200MHz: 4.60 dB 200MHz~1GHz: 4.10 dB Vertical: 30MHz~200MHz: 4.80 dB 200MHz~1GHz: 4.10 dB
Radiated Emission(1GHz~25GHz)	Horizontal: 1GHz~18GHz: 5.00 dB Vertical: 1GHz~18GHz: 4.80 dB Horizontal: 18GHz~25GHz: 4.70 dB Vertical: 18GHz~25GHz: 4.60 Db
RF antenna conducted test	± 1.13 Db
Radiated Emission Band Edge	± 5.00 Db
DTS Bandwidth	± 279 Hz
Occupied Bandwidth	± 279 Hz
Power Density	± 1.13 Db

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Product Name ..... :	WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module
Model No..... :	WLE7002E25, WLTE7002E25, WLTB7002E25
Trademark..... :	COMPEX
FCC ID ..... :	TK4WLE7002E25
IC..... :	7849A-WLE7002E25
Hardware Version ..... :	V1.0
Software Version..... :	V1.0
Manufacturer..... :	Compex Systems Pte Ltd
Manufacturer Address..... :	No 178 Paya Lebar Road #05-05 Singapore 409030
Model difference ..... :	Model WLE7002E25, WLTE7002E25 and WLTB7002E25 are identical except for different interfaces.
Note: We performed all tests on model WLE7002E25 and verified that the RF output power and RSE test results of models WLTE7002E25 and WLTB7002E25 in the worst mode did not deteriorate, so only the test data of WLE7002E25 is shown in the report.	

Wireless specifiction ..... :	WIFI	
Operating frequency range(s)..... :	2412~2462MHz	
Number of channel..... :	802.11b/g/n/ax/be(20MHz) : 11 802.11n/ax/be(40MHz) : 07	
Type of Modulation & Data Rate.... :	Refer to Clause 1.3	
Device category ..... :	☐	Fixed point-to-point
	☐	Emit multiple directional beams, simultaneously or sequentially
	☒	Other cases

Rated power supply .....:	Voltage and Frequency	
	☐	AC: 220 - 240 V, 50/60 Hz
	☐	AC: 100 - 240 V, 50/60 Hz
	☒	DC: 3.3 V
	☐	Poe:
	☐	Adapter:
Mounting position.....:	☐	Tabletop equipment
	☐	Wall/Ceiling mounted equipment
	☐	Floor standing equipment
	☐	Hand-held/Portable equipment
	☒	Other: RF Module

1.2 Antenna Information

Antenna Set1:

Antenna model / type number..... :	ANT256Q6A-NM					
Antenna Delivery ..... :	☒	1TX + 1RX				
	☒	2TX + 2RX				
	☐	Others: ……				
Antenna technology ..... :	☒	SISO				
	☒	MIMO	☒	CDD		
			☒	Beam-forming		
Antenna Type..... :	☒	External	☒	Dipole		
			☐	Sectorized		
	☐	Internal	☐	Ceramic Chip		
			☐	PIFA		
			☐	Others……		
Antenna Gain ..... :	SISO:	Antenna 1	4.0 dBi	Antenna 2	4.0 dBi	
	CDD For Power:	4.0 dBi	CDD For PSD:	7.01 dBi		
	Beam-forming For Power:	7.01 dBi	Beam-forming For PSD:	10.02 dBi		

Antenna Set2:

Antenna model / type number..... :	RFDPA161504IMLB902 RFDPA161517IMLB902					
Antenna Delivery ..... :	☒	1TX + 1RX				
	☒	2TX + 2RX				
	☐	Others: ……				
Antenna technology ..... :	☒	SISO				
	☒	MIMO	☒	CDD		
			☒	Beam-forming		
Antenna Type..... :	☒	External	☒	Dipole		
			☐	Sectorized		
	☐	Internal	☐	Ceramic Chip		
			☐	PIFA		
			☐	Others……		
Antenna Gain ..... :	SISO:	Antenna 1	2.83 dBi	Antenna 2	2.83 dBi	
	CDD For Power:	2.83 dBi	CDD For PSD:	5.84 dBi		
	Beam-forming For Power:	5.84 dBi	Beam-forming For PSD:	8.85 dBi		
Antenna difference..... :	The antenna bodies are the same, the only difference is the Cable length.					

Antenna Set3:

Antenna model / type number..... :	CKP-32505-006200-100-RS					
Antenna Delivery ..... :	☒	1TX + 1RX				
	☒	2TX + 2RX				
	☐	Others: ……				
Antenna technology ..... :	☒	SISO				
	☒	MIMO	☒	CDD		
			☒	Beam-forming		
Antenna Type..... :	☒	External	☒	Dipole		
			☐	Sectorized		
	☐	Internal	☐	Ceramic Chip		
			☐	PIFA		
			☐	Others……		
Antenna Gain ..... :	SISO:	Antenna 1	2.22 dBi	Antenna 2	2.22 dBi	
	CDD For Power:	2.22 dBi	CDD For PSD:	5.23 dBi		
	Beam-forming For Power:	5.23 dBi	Beam-forming For PSD:	8.24 dBi		

Antenna Set4:

Antenna model / type number..... :	ARY121-0277-005-00 ARY121-0277-006-00					
Antenna Delivery ..... :	☒	1TX + 1RX				
	☒	2TX + 2RX				
	☐	Others: ……				
Antenna technology ..... :	☒	SISO				
	☒	MIMO	☒	CDD		
			☒	Beam-forming		
Antenna Type..... :	☒	External	☒	Dipole		
			☐	Sectorized		
	☐	Internal	☐	Ceramic Chip		
			☐	PIFA		
			☐	Others……		
Antenna Gain ..... :	SISO:	Antenna 1	1.27 dBi	Antenna 2	1.27 dBi	
	CDD For Power:	1.27 dBi	CDD For PSD:	4.28 dBi		
	Beam-forming For Power:	4.28 dBi	Beam-forming For PSD:	7.29 dBi		
Antenna difference..... :	The antenna bodies are the same, the only difference is the Cable length.					

Note: We evaluated all tests on the ANT256Q6A-NM Antenna with higher antenna gain. For other antennas, we evaluated the RSE of the worst channel. The test results did not deteriorate, so only the test data of the ANT256Q6A-NM Antenna is shown in the report.

1.3 Data Rate

IEEE 802.11b

Modulation	Data Rate(Mb/s)
DSSS	1
DSSS	2
CCK	5.5
CCK	11

IEEE 802.11g

Modulation	R	Data Rate(Mb/s)
BPSK	1/2	6
BPSK	3/4	9
QPSK	1/2	12
QPSK	3/4	18
16-QAM	1/2	24
16-QAM	3/4	36
64-QAM	2/3	48
64-QAM	3/4	54

IEEE 802.11n

Spatial streames	MCS Index	Modulation	R	Data Rate(Mb/s)			
				800ns GI		400ns GI	
				20MHz	40MHz	20MHz	40MHz
1	0	BPSK	1/2	6.5	13.5	7.2	15.0
1	1	QPSK	1/2	13.0	27.0	14.4	30.0
1	2	QPSK	3/4	19.5	40.5	21.7	45.0
1	3	16-QAM	1/2	26.0	54.0	28.9	60.0
1	4	16-QAM	3/4	39.0	81.0	43.3	90.0
1	5	64-QAM	2/3	52.0	108.0	57.8	120.0
1	6	64-QAM	3/4	58.5	121.5	65.0	135.0
1	7	64-QAM	5/6	65.0	135.0	72.2	150.0
2	8	BPSK	1/2	13	27	14.4	30
2	9	QPSK	1/2	26	54	28.8	60
2	10	QPSK	3/4	39	81	43.4	90
2	11	16-QAM	1/2	52	108	57.8	120
2	12	16-QAM	3/4	78	162	86.6	180
2	13	64-QAM	2/3	104	216	115.6	240
2	14	64-QAM	3/4	117	243	130	270
2	15	64-QAM	5/6	130	270	144.4	300

Symbol	Explanation
R	Code rate
GI	guard interval

IEEE 802.11ax

Spatial streames	MCS Index	Modulation	R	Data Rate(Mb/s)					
				800ns GI		1600ns GI		3200ns GI	
				20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
1	0	BPSK	1/2	8.6	17.2	8.1	16.3	7.3	14.6
1	1	QPSK	1/2	17.2	34.4	16.3	32.5	14.6	29.3
1	2	QPSK	3/4	25.8	51.6	24.4	48.8	21.9	43.9
1	3	16-QAM	1/2	34.4	68.8	32.5	65	29.3	58.5
1	4	16-QAM	3/4	51.6	103.2	48.8	97.5	43.9	87.8
1	5	64-QAM	2/3	68.8	137.6	65	130	58.5	117
1	6	64-QAM	3/4	77.4	154.9	73.1	146.3	65.8	131.6
1	7	64-QAM	5/6	86	172.1	81.3	162.5	73.1	146.3
1	8	256QAM	3/4	103.2	206.5	97.5	195	87.8	175.5
1	9	256QAM	5/6	114.7	229.4	108.3	216.7	97.5	195
1	10	1024QAM	3/4	129	258.1	121.9	243.8	109.7	219.4
1	11	1024QAM	5/6	143.4	286.8	135.4	270.8	121.9	243.8
2	0	BPSK	1/2	17.2	34.4	16.2	32.6	14.6	29.2
2	1	QPSK	1/2	34.4	68.8	32.6	65	29.2	58.6
2	2	QPSK	3/4	51.6	103.2	48.8	97.6	43.8	87.8
2	3	16-QAM	1/2	68.8	137.6	65	130	58.6	117
2	4	16-QAM	3/4	103.2	206.4	97.6	195	87.8	175.6
2	5	64-QAM	2/3	137.6	275.2	130	260	117	234
2	6	64-QAM	3/4	154.8	309.8	146.2	292.6	131.6	263.2
2	7	64-QAM	5/6	172	344.2	162.6	325	146.2	292.6
2	8	256QAM	3/4	206.4	413	195	390	175.6	351
2	9	256QAM	5/6	229.4	458.8	216.6	433.4	195	390
2	10	1024QAM	3/4	258	516.2	243.8	487.6	219.4	438.8
2	11	1024QAM	5/6	286.8	573.6	270.8	541.6	243.8	487.6

Symbol	Explanation
R	Code rate
GI	guard interval

IEEE 802.11be

Spatial streames	MCS Index	Modulation	R	Data Rate(Mb/s)					
				800ns GI		1600ns GI		3200ns GI	
				20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
1	0	BPSK	1/2	8.6	17.2	8.1	16.3	7.3	14.6
1	1	QPSK	1/2	17.2	34.4	16.3	32.5	14.6	29.3
1	2	QPSK	3/4	25.8	51.6	24.4	48.8	21.9	43.9
1	3	16-QAM	1/2	34.4	68.8	32.5	65	29.3	58.5
1	4	16-QAM	3/4	51.6	103.2	48.8	97.5	43.9	87.8
1	5	64-QAM	2/3	68.8	137.6	65	130	58.5	117
1	6	64-QAM	3/4	77.4	154.9	73.1	146.3	65.8	131.6
1	7	64-QAM	5/6	86	172.1	81.3	162.5	73.1	146.3
1	8	256QAM	3/4	103.2	206.5	97.5	195	87.8	175.5
1	9	256QAM	5/6	114.7	229.4	108.3	216.7	97.5	195
1	10	1024QAM	3/4	129	258.1	121.9	243.8	109.7	219.4
1	11	1024QAM	5/6	143.4	286.8	135.4	270.8	121.9	243.8
1	12	4096QAM	3/4	155	310	146	293	131	263
1	13	4096QAM	5/6	172	344	163	325	146	293
2	0	BPSK	1/2	17.2	34.4	16.2	32.6	14.6	29.2
2	1	QPSK	1/2	34.4	68.8	32.6	65	29.2	58.6
2	2	QPSK	3/4	51.6	103.2	48.8	97.6	43.8	87.8
2	3	16-QAM	1/2	68.8	137.6	65	130	58.6	117
2	4	16-QAM	3/4	103.2	206.4	97.6	195	87.8	175.6
2	5	64-QAM	2/3	137.6	275.2	130	260	117	234
2	6	64-QAM	3/4	154.8	309.8	146.2	292.6	131.6	263.2
2	7	64-QAM	5/6	172	344.2	162.6	325	146.2	292.6
2	8	256QAM	3/4	206.4	413	195	390	175.6	351
2	9	256QAM	5/6	229.4	458.8	216.6	433.4	195	390
2	10	1024QAM	3/4	258	516.2	243.8	487.6	219.4	438.8
2	11	1024QAM	5/6	286.8	573.6	270.8	541.6	243.8	487.6
2	12	4096QAM	3/4	310	620	292	586	262	526
2	13	4096QAM	5/6	344	688	326	650	292	586

Symbol	Explanation
R	Code rate
GI	guard interval

Note: We have evaluated low/mid/high data rate, the blue font is the highest power data rate.

1.4 Channel List

IEEE 802.11b/g & IEEE 802.11n /ax /be (20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412 MHz	2	2417 MHz	3	2422 MHz	4	2427 MHz
5	2432 MHz	6	2437 MHz	7	2442 MHz	8	2447 MHz
9	2452 MHz	10	2457 MHz	11	2462 MHz	-	-

IEEE 802.11n /ax / be (40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422 MHz	4	2427 MHz	5	2432 MHz	6	2437 MHz
7	2442 MHz	8	2447 MHz	9	2452 MHz	-	-

Note: The General Description of the Item, antenna information,Test Data Rate and Channel List in clause 1 are provided and confirmed by the client.

2 DESCRIPTION OF TEST SETUP

2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

Test Mode	Mode 1: Transmit by 802.11b
	Mode 2: Transmit by 802.11g
	Mode 3: Transmit by 802.11n(20MHz)
	Mode 4: Transmit by 802.11n(40MHz)
	Mode 5: Transmit by 802.11ax(20MHz)
	Mode 6: Transmit by 802.11ax(40MHz)
	Mode 7: Transmit by 802.11be(20MHz)
	Mode 8: Transmit by 802.11be(40MHz)

Note 1: Regards to the frequency band operation: the lowest, middle and highest frequency channel were selected to perform the test, then shown on this report.

Note 2: For portable device, radiated tests was verified over X, Y, Z axis, and shown the worst case on this report.

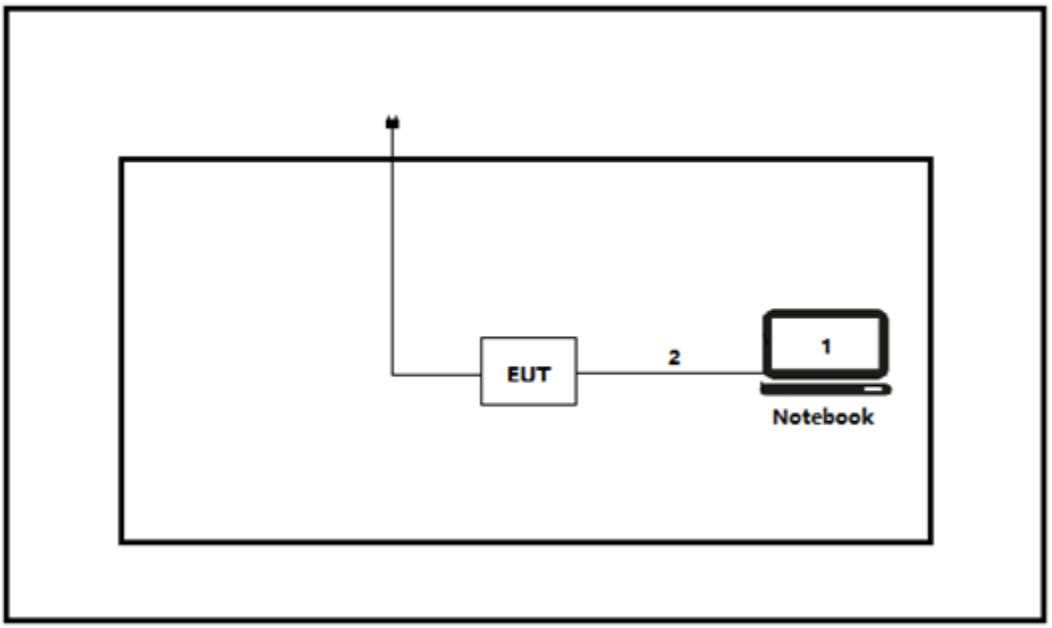
2.2 Auxiliary equipment / Test software for the EUT

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
(1) Notebook	Think pad x220	Lenovo	Adapter
(2) USB Control Cable	N/A	N/A	N/A
(3) USB Control Cable	N/A	N/A	N/
software	Type / Version	Manufacturer	Supplied by
Putty	N/A	N/A	N/A

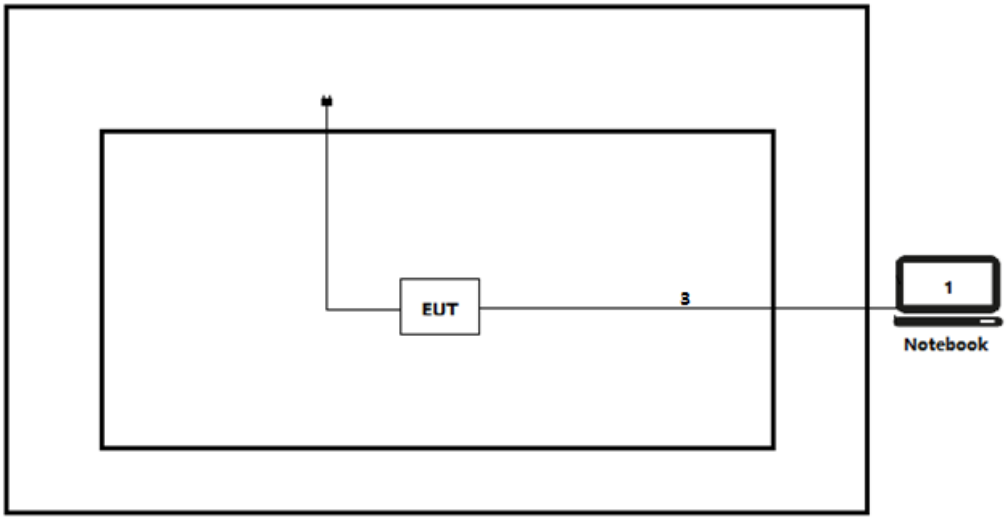
Accessories Information	Cable		
	Length used during test [m]	Attached during test	Shielded
(2)USB Control Cable	1	☒	☒
(3)USB Control Cable	8	☒	☒

2.3 Test Configuration / Block diagram used for tests

Test setup Diagram- Conducted test



Test setup Diagram- Radiated Emission



2.4 Testing process

1	Setup the EUT as shown in Section 2.4.
2	Run the software “Putty” on the notebook computer.
3	Open the serial port and enter the corresponding commands to configure the test mode, test channel, test power and data rate.
4	Verify that the EUT works properly.

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
FCC CFR Title 47 Part 15 Subpart C Section 15.247	2024	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
ANSI C63.10	2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074 D01V05r02	2019	Guidance for performing compliance measurements on Digital Transmission System (DTS) operating under section 15.247
RSS-Gen Issue 5 Amendment 2	2021	General Requirements forCompliance of Radio Apparatus
KDB 662911	2020	Provision to Allow Measurement of Directional Gain of Multi-Antenna Systems for Compliance Verification
RSS-247 Issue 3	2023	Digital Transmission Systems (DTSs),Frequency Hopping Systems (FHSs)and Licence-Exempt Local Area Network(LE-LAN) Devices

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

(Please define the deviations from the standard(s) if applicable)

3.3 Overview of results

Requirement – Test Item of FCC	Standard(s)	Verdict	Remark
20dB Emission Bandwidth	FCC 15.247(a)(2)	PASS	Test data please refer to **Appendix A**
Maximum conducted output power	15.247 (b)(3)	PASS	Test data please refer to **Appendix C**
Maximum power spectral density	FCC 15.247(e)	PASS	Test data please refer to **Appendix D**
Band edge measurements	FCC 15.247(d) FCC 15.205 FCC 15.209	PASS	Test data please refer to **Appendix E**
Conducted Spurious Emission	FCC 15.247(d), FCC 15.209	PASS	Test data please refer to **Appendix F**
Duty cycle	ANSI C63.10:2013	PASS	Test data please refer to **Appendix G**
Emissions in Restricted Bands	FCC 15.205 FCC 15.209	PASS	Test data please refer to **Appendix H**
AC Power Line Conducted Emission	FCC 15.207	N/A	The EUT is DC powered, not applicable.
Antenna Requirement	FCC 15.203	PASS	---

Requirement – Test case of ISED	Standard(s)	Verdict	Remark
DTS Bandwidth	RSS-Gen Issue 5 Paragraph 6.7 RSS-247 Issue 3 Paragraph 5.2	PASS	Test data please refer to **Appendix A**
Occupied Channel Bandwidth	RSS-Gen Issue 5 Paragraph 6.7 RSS-247 Issue 3 Paragraph 5.2	PASS	Test data please refer to **Appendix B**
Maximum conducted output power	RSS-247 Issue 3 Paragraph 5.4(d)	PASS	Test data please refer to **Appendix C**
Maximum power spectral density	RSS-247 Issue 3 Paragraph 5.2(b)	PASS	Test data please refer to **Appendix D**
Band edge measurements	RSS-Gen Issue 5 Paragraph 8.10	PASS	Test data please refer to **Appendix E**
Conducted Spurious Emission	RSS-247 Issue 3 Paragraph 5.5	PASS	Test data please refer to **Appendix F**
Duty cycle	ANSI C63.10:2013	PASS	Test data please refer to **Appendix G**
Emissions in Restricted Bands	RSS-Gen Issue 5 Paragraph 8.9	PASS	Test data please refer to **Appendix H**
AC Power Line Conducted Emission	RSS-Gen Issue 5 Paragraph 8.8	N/A	The EUT is DC powered, not applicable.
Antenna Requirement	RSS-Gen Issue 5 Paragraph 6.8	PASS	---

3.4 Test Matrix

Test item	Model: WLE7002E25	
	1(#1)	2(#2)
DTS Bandwidth	☒	☐
Occupied Channel Bandwidth	☒	☐
Maximum conducted output power	☒	☐
Maximum power spectral density	☒	☐
Band edge measurements	☐	☒
Conducted Spurious Emission	☒	☐
Duty cycle	☒	☐
Emissions in Restricted Bands	☐	☒
Note1: The only difference between sample #1 and sample #2 is whether to keep the original antenna, sample #1 is a conduction test product that removes the original antenna and is equipped with SMA wires, and sample #2 is a complete product that retains the original antenna.		

3.5 Test Facility

USA	**:**	**FCC Designation Number: CN1199**
CA	**:**	**ISED CAB identifier: CN0040**

4 TEST RESULTS

4.1 Emissions in restricted frequency bands	VERDICT: PASS

4.1.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.205; 15.209

Restricted Bands of operation for FCC

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 –16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975–12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675–12.57725	322 – 335.4	3600 – 4400	Above 38.6
13.36 – 13.41	--	--	--

Restricted Band Emissions Limit

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30(Note 1)
1.705 - 30	30	29.5	30(Note 1)
30 - 88	100	40	3(Note 2)
88 - 216	150	43.5	3(Note 2)
216 - 960	200	46	3(Note 2)
Above 960	500	54	3(Note 2)

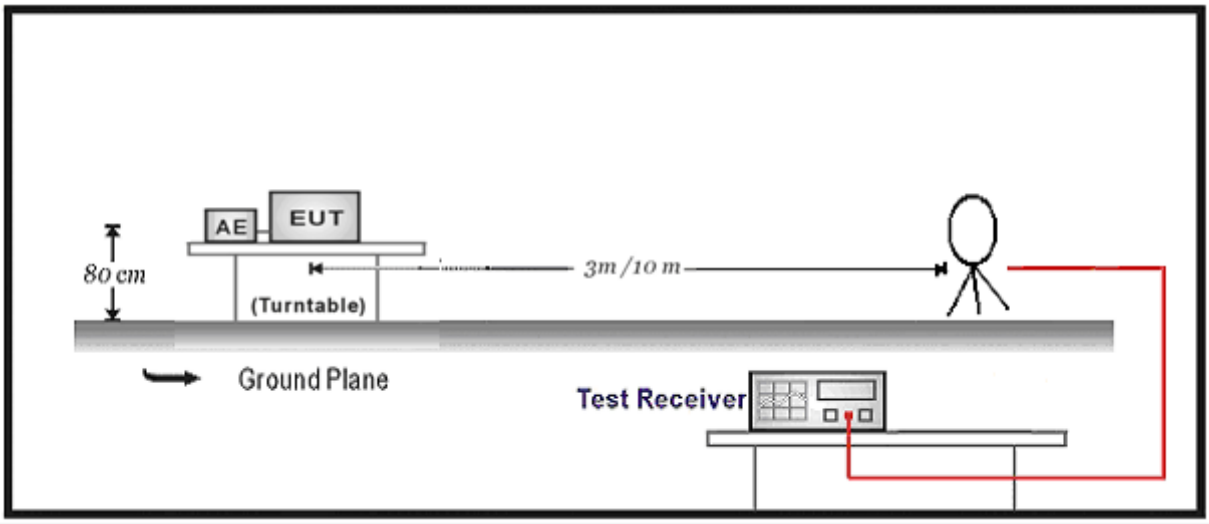
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field

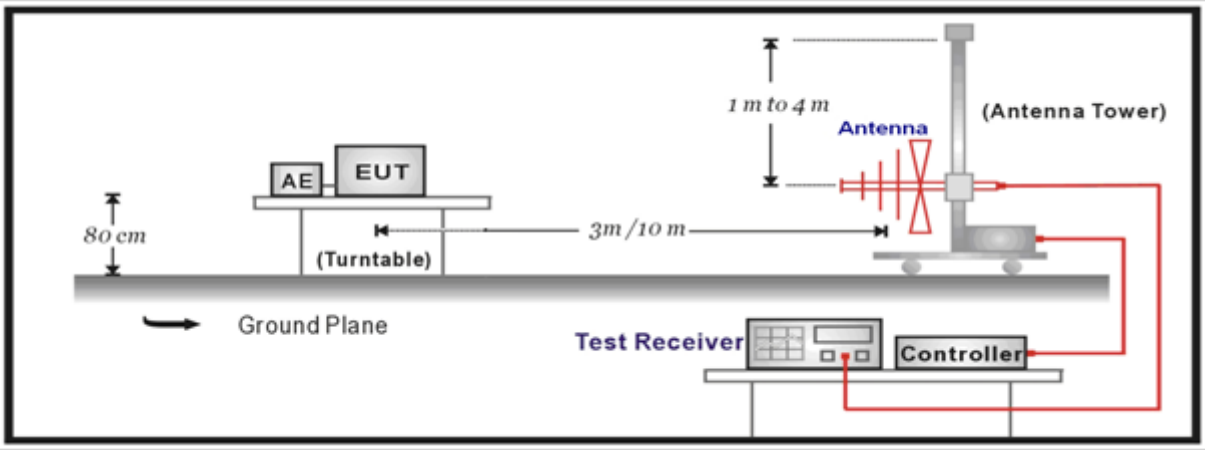
measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.1.2 Test Setup

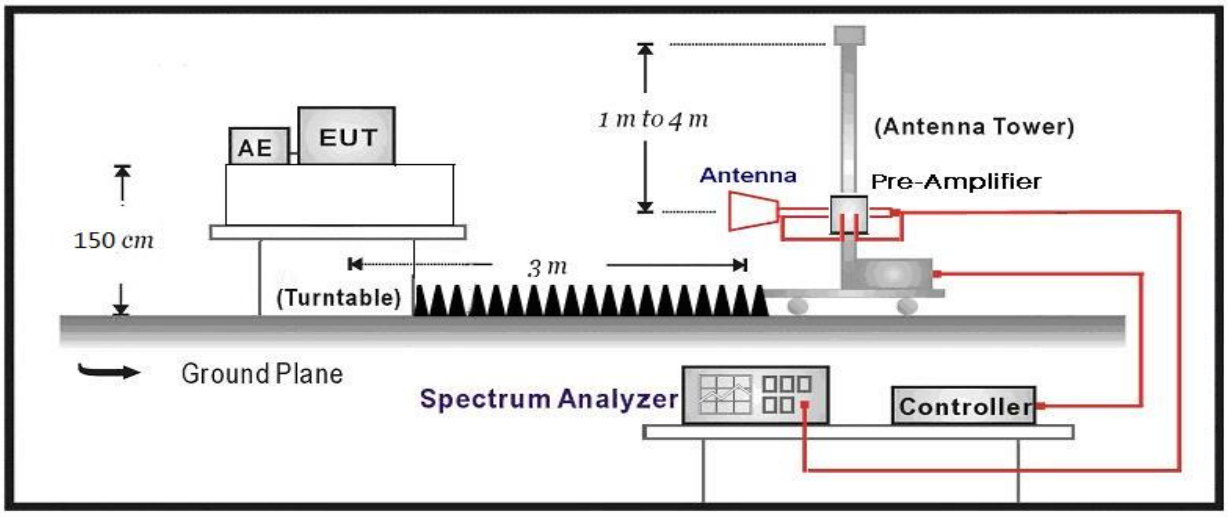
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.1.3 Test Procedure

	References Rule				Chapter	Description
☒	ANSI C63.10				11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10			11.12.1	Radiated emission measurements
	☒	ANSI C63.10			6.3	Radiated spurious emission test
		☒	ANSI C63.10		6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
		☒	ANSI C63.10		6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
		☒	ANSI C63.10		6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
	☐	ANSI C63.10			11.12.2	Antenna-port conducted measurements
		☐	ANSI C63.10		11.12.2.3	Quasi-peak measurement procedure
		☐	ANSI C63.10		11.12.2.4	Peak power measurement procedure
		☐	ANSI C63.10		11.12.2.5	Average power measurement procedures
			☐	ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
			☐	ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
			☐	ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

4.2 Emissions in non-restricted frequency band	VERDICT: PASS

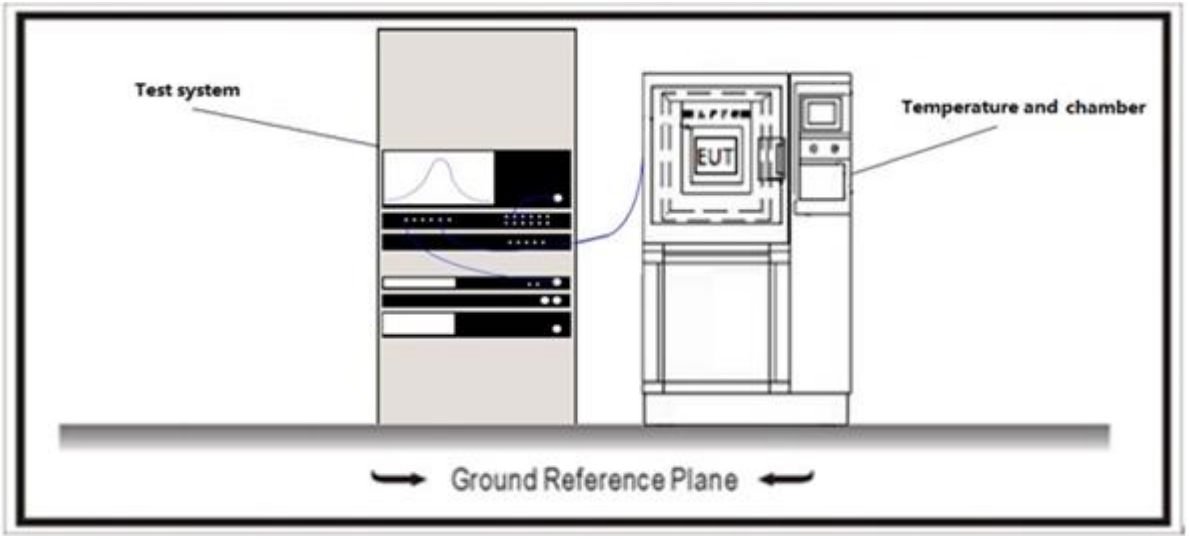
4.2.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247(d)
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30dBc(Note1)
RF Output power(PK detector)	20dBc(Note2)

Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

4.2.2 Test Setup



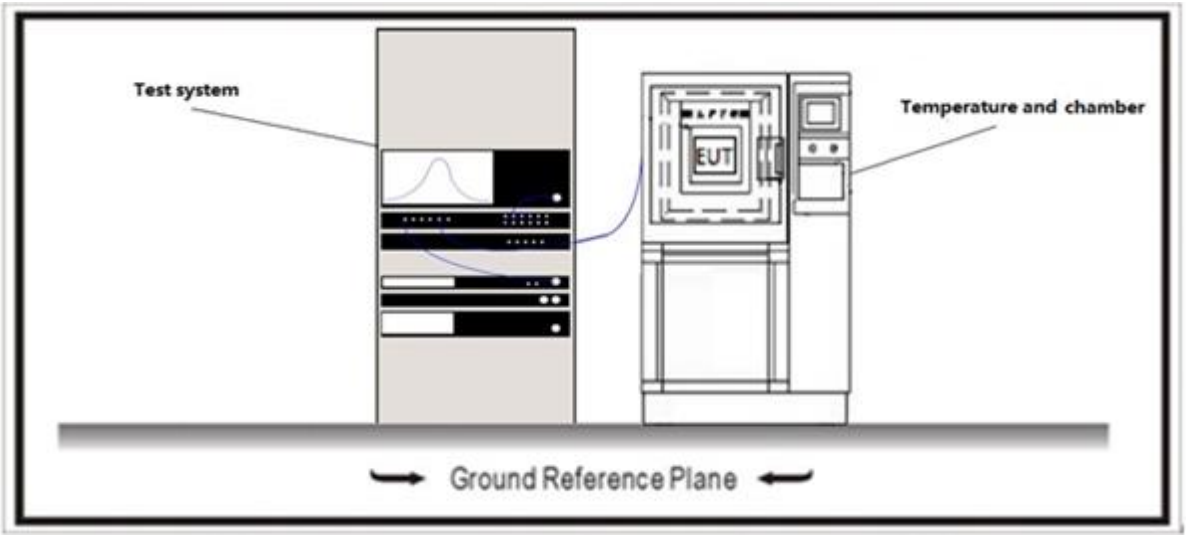
4.2.3 Test Procedure

References Rule			Chapter	Description
☒	ANSI C63.10		11.11	Emissions in non-restricted frequency bands
	☒	ANSI C63.10	11.11.1	General
	☒	ANSI C63.10	11.11.2	Reference level measurement
	☒	ANSI C63.10	11.11.3	Emission level measurement

4.3 Duty cycle	VERDICT: PASS

4.3.1 Limit
N/A

4.3.2 Test Setup



4.3.3 Test Procedure			
References Rule		Chapter	Description
☒	ANSI C63.10	11.6	Duty cycle (D), transmission duration (T), and maximum power control level

4.4 Radiated Emission Band Edge	VERDICT: PASS

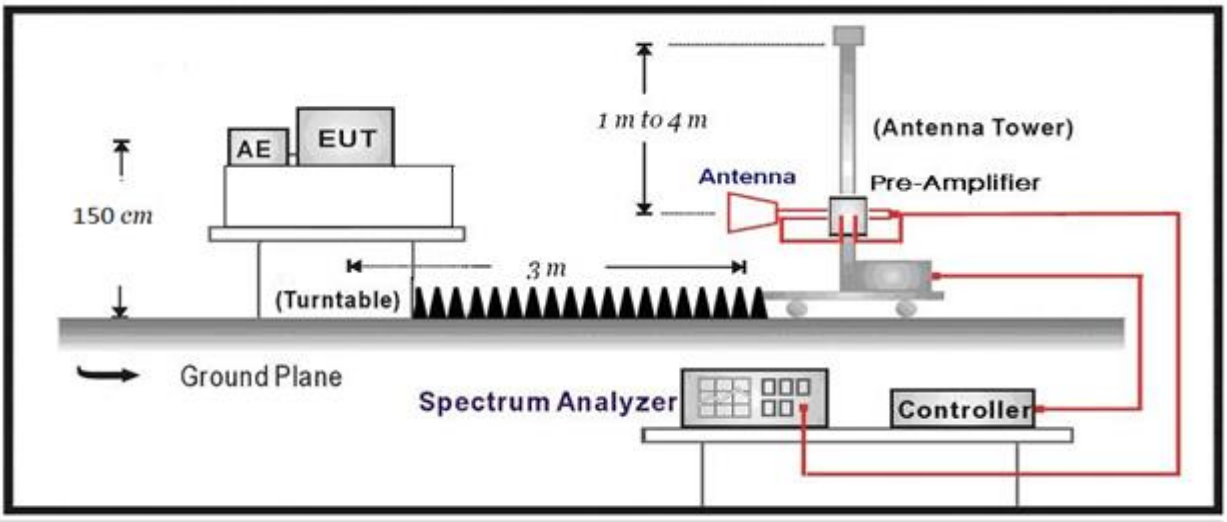
4.4.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247(d) , 15.205, 15.209			
Frequency bands (MHz)	Detector	Limit (dBµV/m)	RBW (MHz)	Distance (m)
2310-2390 2483.5-2500	PK	74	1	3
	AV	54	1	3

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

4.4.2 Test Setup

Above 1GHz Test Setup:



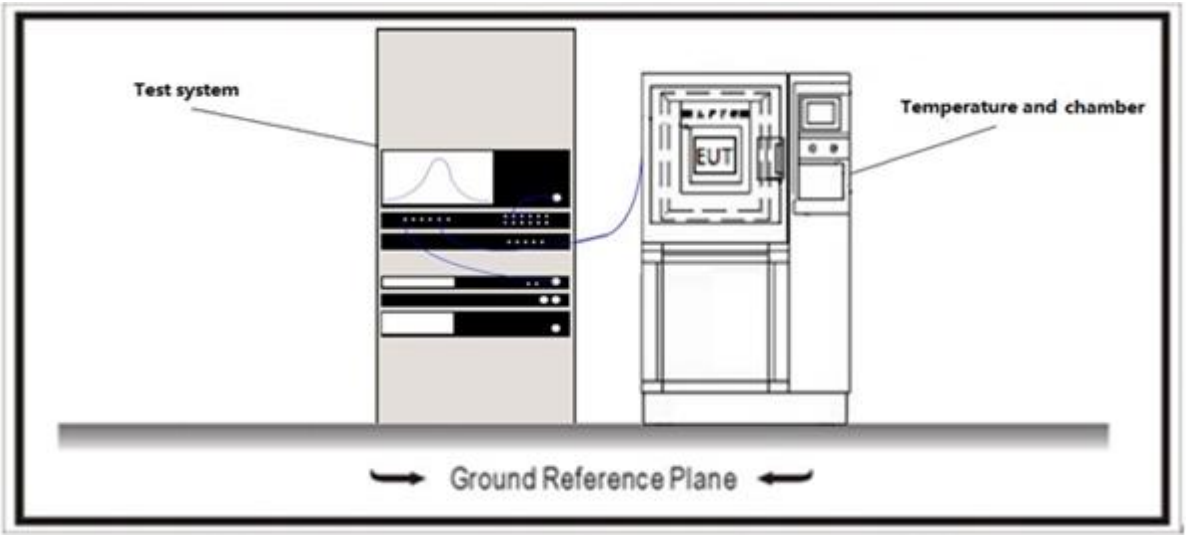
4.4.3 Test Procedure

	References Rule		Chapter	Description
☒	ANSI C63.10		6.10	Band-edge testing
	☒	ANSI C63.10	6.10.5	Restricted-band band-edge measurements
	☐	ANSI C63.10	6.10.6	Marker-delta method
☒	ANSI C63.10		11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10	11.12.1	Radiated emission measurements
	☒	ANSI C63.10	6.3	Radiated spurious emission test
☐	ANSI C63.10		6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
☐	ANSI C63.10		6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
☒	ANSI C63.10		6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.5 DTS Bandwidth	VERDICT: PASS

4.5.1 Limit	
Standard	FCC Part 15 Subpart C Paragraph 15.247 (a)(2)
Systems using digital modulation techniques operate in the2400-2483.5 MHz .The minimum 6 dB bandwidth shall be at least 500 kHz	
Standard	ANSI C63.10 Paragraph 6.7
The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs. The occupied bandwidth should within the required frequency range.	

4.5.2 Test Setup



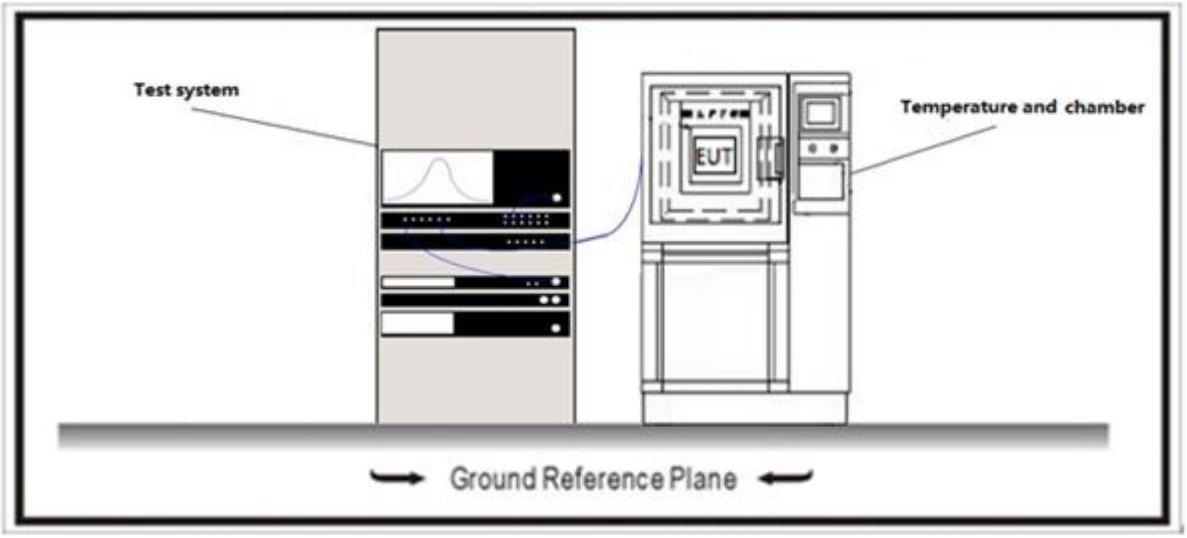
4.5.3 Test Procedure

	Reference Rule		Chapter	Description
☒	ANSI C63.10		11.8	DTS bandwidth
	☒	ANSI C63.10	11.8.1	Option 1
	☐	ANSI C63.10	11.8.2	Option 2
☒	ANSI C63.10		6.9	Occupied bandwidth
	☐	ANSI C63.10	6.9.2	relative measurement procedure
	☒	ANSI C63.10	6.9.3	power bandwidth (99%) measurement procedure

4.6 Fundamental emission output power	VERDICT: PASS

4.6.1 Limit			
Standard		FCC Part 15 Subpart C Paragraph 15.247 (b)(3)	
☒	GTX ＜6dBi		Pout≤30dBm
☐	GTX ＞6dBi		
	☐	Non-Fix point-point	Pout≤30-(GTX -6)
	☐	Fix point-point	Pout≤30-[(GTX-6)]/3
	☐	Point-to-multipoint	Pout≤30-(GTX-6)
	☐	Overlap Beams	Pout≤30-[(GTX-6)]/3
	☐	Avgregate power transmitted simultaneously on all beams	Pout≤30-[(GTX-6)]/3
	☐	single directional beam	Pout≤30-[(GTX-6)]/3+8dB
Note 1 : GTX directional gain of transmitting antennas. Note 2 : Pout is maximum conducted output power .			

4.6.2 Test Setup



4.6.3 Test Procedure

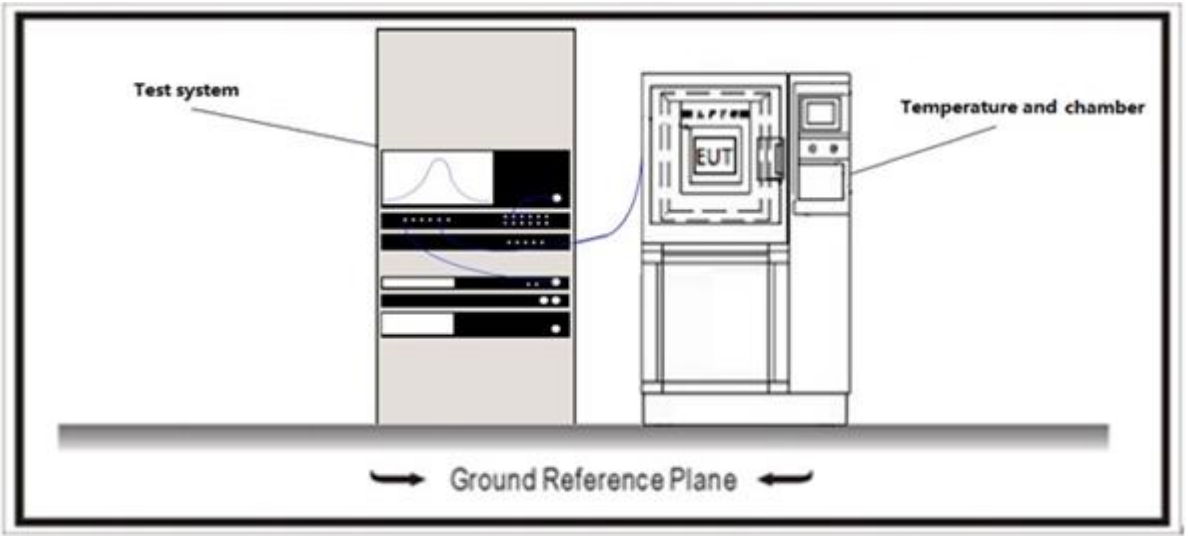
	References Rule			Chapter	Description
☒	ANSI C63.10			11.9	Fundamental emission output power
	☐	ANSI C63.10		11.9.1	Maximum peak conducted output power
		☐	ANSI C63.10	11.9.1.1	RBW ≥ DTS bandwidth
		☐	ANSI C63.10	11.9.1.2	Integrated band power method
		☐	ANSI C63.10	11.9.1.3	PKPM1 Peak power meter method
	☒	ANSI C63.10		11.9.2	Maximum conducted (average) output power
		☐	ANSI C63.10	11.9.2.2	Measurement using a spectrum analyzer (SA)
			☐ ANSI C63.10	11.9.2.2.2	Method AVGSA-1(Duty cycle≥98%)
			☐ ANSI C63.10	11.9.2.2.3	Method AVGSA-1A(Duty cycle≥98%)
			☐ ANSI C63.10	11.9.2.2.4	Method AVGSA-2(Duty cycle≤98%)
			☐ ANSI C63.10	11.9.2.2.5	Method AVGSA-2A(Duty cycle≤98%)
			☐ ANSI C63.10	11.9.2.2.4	Method AVGSA-3
			☐ ANSI C63.10	11.9.2.2.5	Method AVGSA-3A
		☒	ANSI C63.10	11.9.2.3	Measurement using a power meter (PM)
			☒ ANSI C63.10	11.9.2.3.1	Method AVGPM
			☐ ANSI C63.10	11.9.2.3.2	Method AVGPM-G

Directional Gain Calculations for In-Band test method				
	References Rule		Chapter	Description
☐	KDB 662911		F2)a)	Basic methodology
	☐	KDB 662911	F2)a) (i)	transmit signals are correlated
	☐	KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)b)	Sectorized antenna systems.
☐	KDB 662911		F2)c)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (i)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (ii)	Multiple antennas
☐	KDB 662911		F2)e)	Spatial stream
	☐	KDB 662911	F2)e) (i)	Antennas have the same gain
	☐	KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
☒	KDB 662911		F2)f)	Cyclic Delay Diversity (CDD)
	☒	KDB 662911	F2)f) (i)	Antennas have the same gain
	☐	KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)f) (iii)	Antenna have the different gain with more than one spatial stream

4.7 Power Density	VERDICT: PASS

4.7.1 Limit:	
Standard	FCC Part 15 Subpart C Paragraph 15.247 (e)
Power Spectral Density≤8dBm/3kHz	

4.7.2 Test Setup



4.7.3 Test Procedure

	References Rule		Chapter	Description
☒	ANSI C63.10		11.10	Maximum power spectral density level in the fundamental emission
	☒	ANSI C63.10	11.10.2	Method PKPSD (peak PSD)
	☐	ANSI C63.10	11.10.3	Method AVGPSD-1(Duty cycle≥98%)
	☐	ANSI C63.10	11.10.4	Method AVGPSD-1A(Duty cycle≥98%)
	☐	ANSI C63.10	11.10.5	Method AVGPSD-2(Duty cycle＜98%)
	☐	ANSI C63.10	11.10.6	Method AVGPSD-2A(Duty cycle＜98%)
	☐	ANSI C63.10	11.10.7	Method AVGPSD-3
	☐	ANSI C63.10	11.10.8	Method AVGPSD-3A

Directional Gain Calculations for In-Band test method				
	References Rule		Chapter	Description
☐	KDB 662911		F2)a)	Basic methodology
	☐	KDB 662911	F2)a) (i)	transmit signals are correlated
	☐	KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)b)	Sectorized antenna systems.
☐	KDB 662911		F2)c)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (i)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (ii)	Multiple antennas
☐	KDB 662911		F2)e)	Spatial stream
	☐	KDB 662911	F2)e) (i)	Antennas have the same gain
	☐	KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
☒	KDB 662911		F2)f)	Cyclic Delay Diversity (CDD)
	☒	KDB 662911	F2)f) (i)	Antennas have the same gain
	☐	KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)f) (iii)	Antenna have the different gain with more than one spatial stream

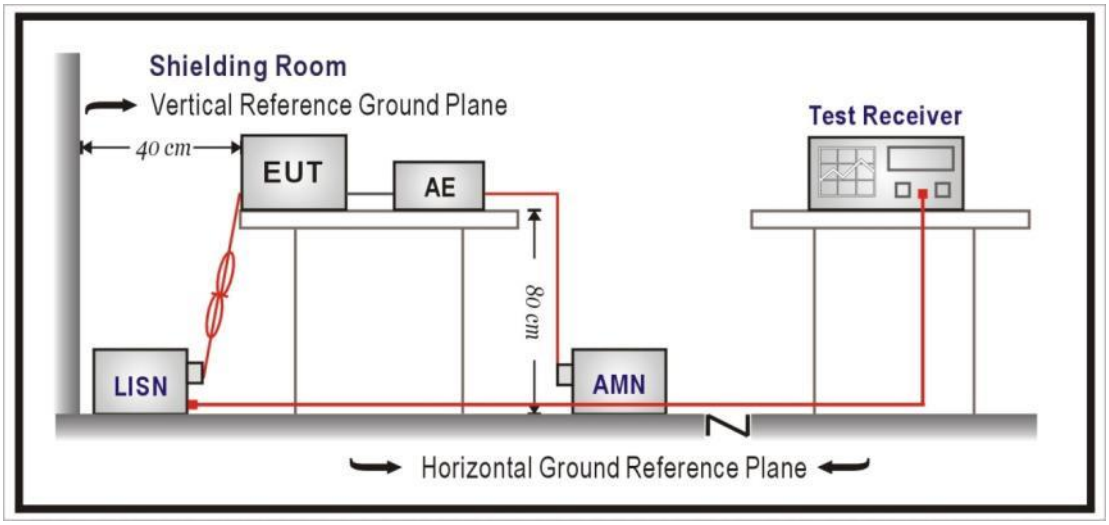
4.8 AC Power Line Conducted Emission — VERDICT: N/A

4.8.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.207; RSS-Gen Issue 5 Paragraph 8.8.	
Frequency range [MHz]	Limit: QP [dB(μV)[1)]]	Limit: AV [dB(μV)[1)]]
0,15 - 0,50	66 – 56 [2)]	56 - 46 [2)]
0,50 - 5,0	56	46
5,0 - 30	60	50

[1)] At the transition frequency, the lower limit applies.
[2)] The limit decreases linearly with the logarithm of the frequency.
NOTE 1: The exclusion band for transmitters shall be considered for transmitters operating at frequencies below 30 MHz.
NOTE 2: Where the AC output port is directly connected (or via a circuit breaker) to the AC power input port of the EUT the AC power output port need not to be tested.

4.8.2 Test Setup



4.8.3 Test Procedure

	References Rule	Chapter	Item
☐	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

4.9 Antenna Requirement	VERDICT: PASS

4.9.1 Limit:	
Standard	FCC Part 15 Subpart C Paragraph 15.203

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

4.9.2 Antenna Connector Construction:	
☐	The use of a permanently attached antenna
☐	The antenna use of a unique coupling to the intentional radiator
☒	The use of a nonstandard antenna jack or electrical connector

Please refer to the attached document “Internal Photograph” to show the antenna connector.

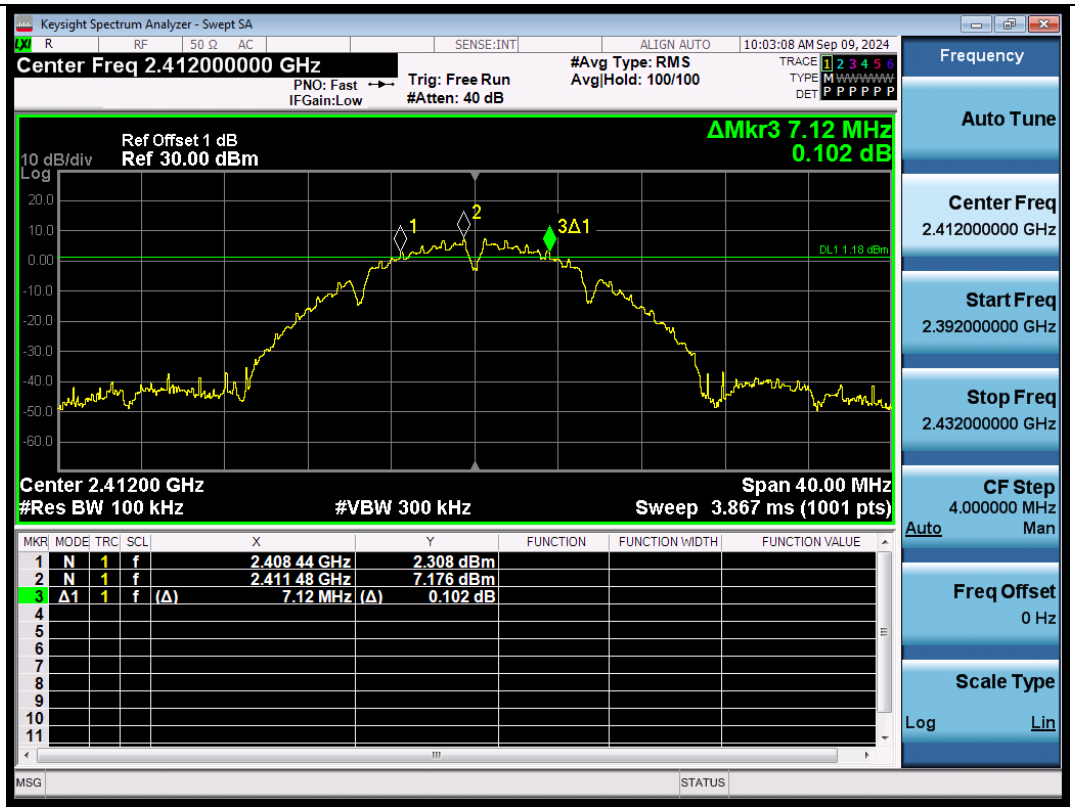
5 TEST SETUP PHOTO AND EUT PHOTO

Remark: The test setup photo and EUT Photo please see appendix.

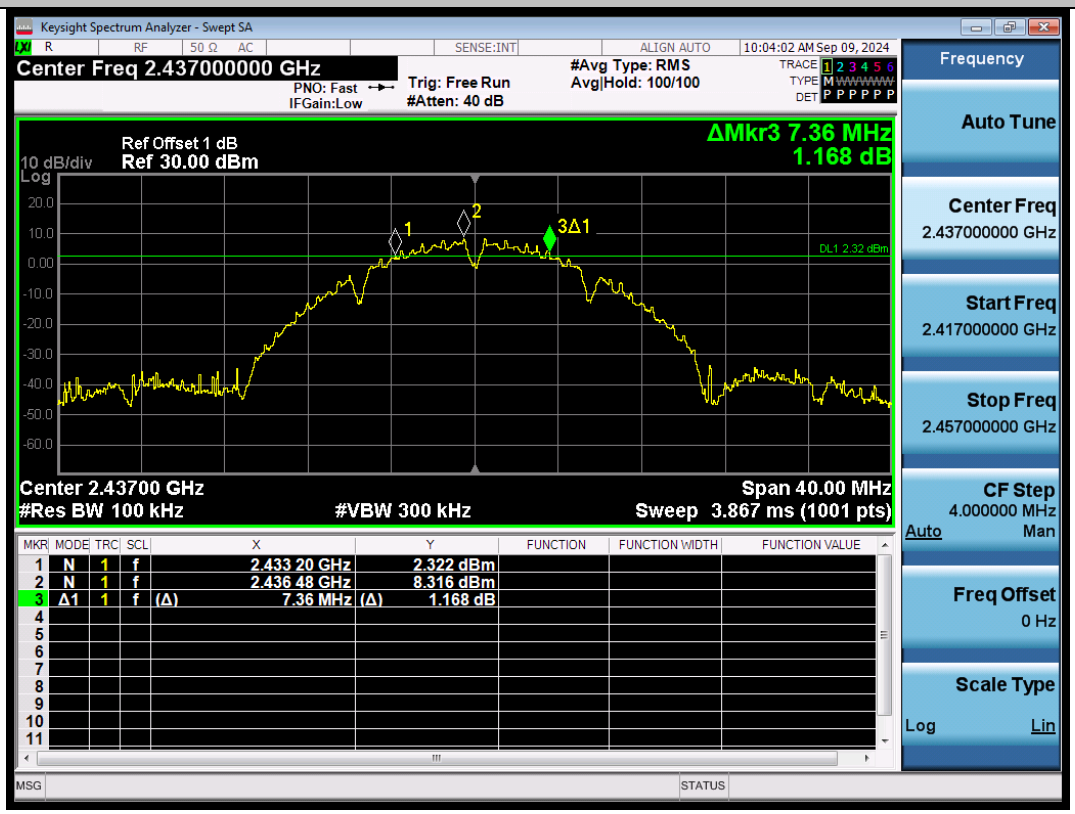
6 TEST RESULT

Appendix A: DTS Bandwidth

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.120	2408.440	2415.560	0.5	PASS
11B	Ant1	2437	7.360	2433.200	2440.560	0.5	PASS
11B	Ant1	2462	7.360	2458.200	2465.560	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
11G	Ant1	2437	16.360	2428.840	2445.200	0.5	PASS
11G	Ant1	2462	16.360	2453.800	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.680	2403.160	2420.840	0.5	PASS
11N20SISO	Ant1	2437	17.640	2428.200	2445.840	0.5	PASS
11N20SISO	Ant1	2462	17.760	2453.080	2470.840	0.5	PASS
11N40SISO	Ant1	2422	36.320	2403.840	2440.160	0.5	PASS
11N40SISO	Ant1	2437	36.400	2418.840	2455.240	0.5	PASS
11N40SISO	Ant1	2452	36.320	2433.840	2470.160	0.5	PASS
11AX20SISO	Ant1	2412	19.120	2402.440	2421.560	0.5	PASS
11AX20SISO	Ant1	2437	19.080	2427.440	2446.520	0.5	PASS
11AX20SISO	Ant1	2462	19.000	2452.480	2471.480	0.5	PASS
11AX40SISO	Ant1	2422	38.080	2402.960	2441.040	0.5	PASS
11AX40SISO	Ant1	2437	38.160	2417.960	2456.120	0.5	PASS
11AX40SISO	Ant1	2452	37.920	2433.040	2470.960	0.5	PASS
11BE20SISO	Ant1	2412	19.000	2402.520	2421.520	0.5	PASS
11BE20SISO	Ant1	2437	19.000	2427.520	2446.520	0.5	PASS
11BE20SISO	Ant1	2462	19.080	2452.400	2471.480	0.5	PASS
11BE40SISO	Ant1	2422	37.920	2403.040	2440.960	0.5	PASS
11BE40SISO	Ant1	2437	38.240	2417.880	2456.120	0.5	PASS
11BE40SISO	Ant1	2452	37.920	2433.040	2470.960	0.5	PASS
Note: We have evaluated SISO, CDD, Beamforming mode, shown in the report is the worst data.							



11B-Ant1-2412-PASS



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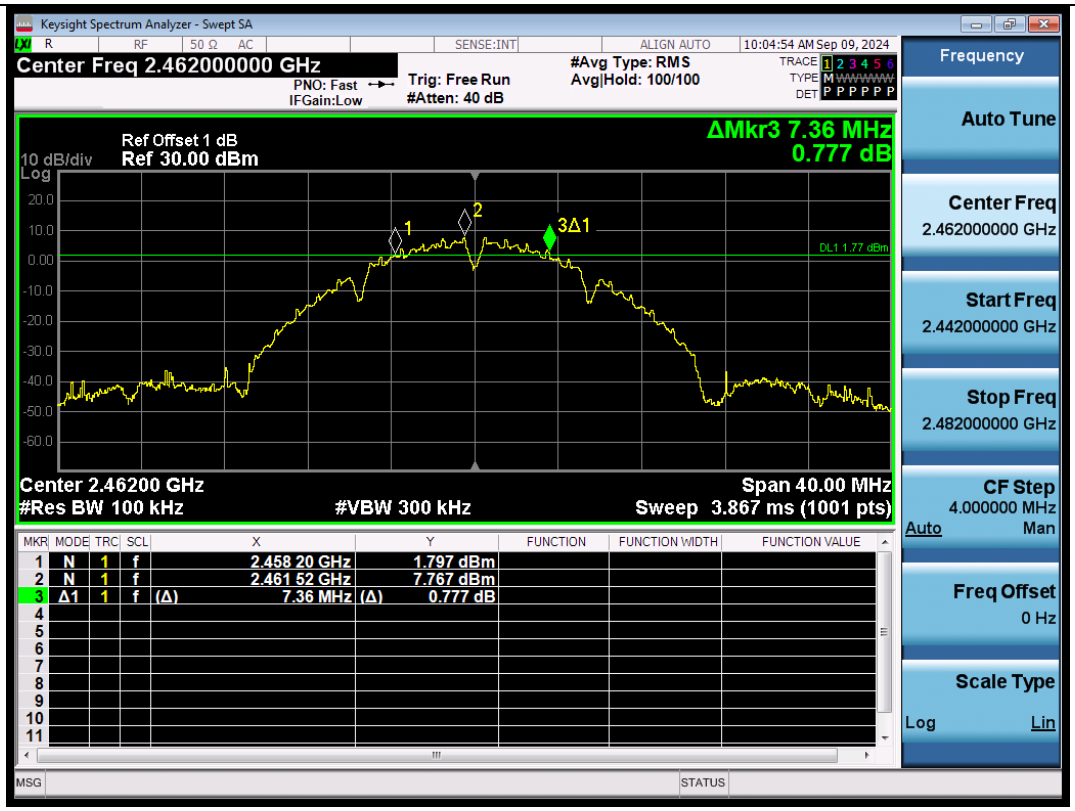

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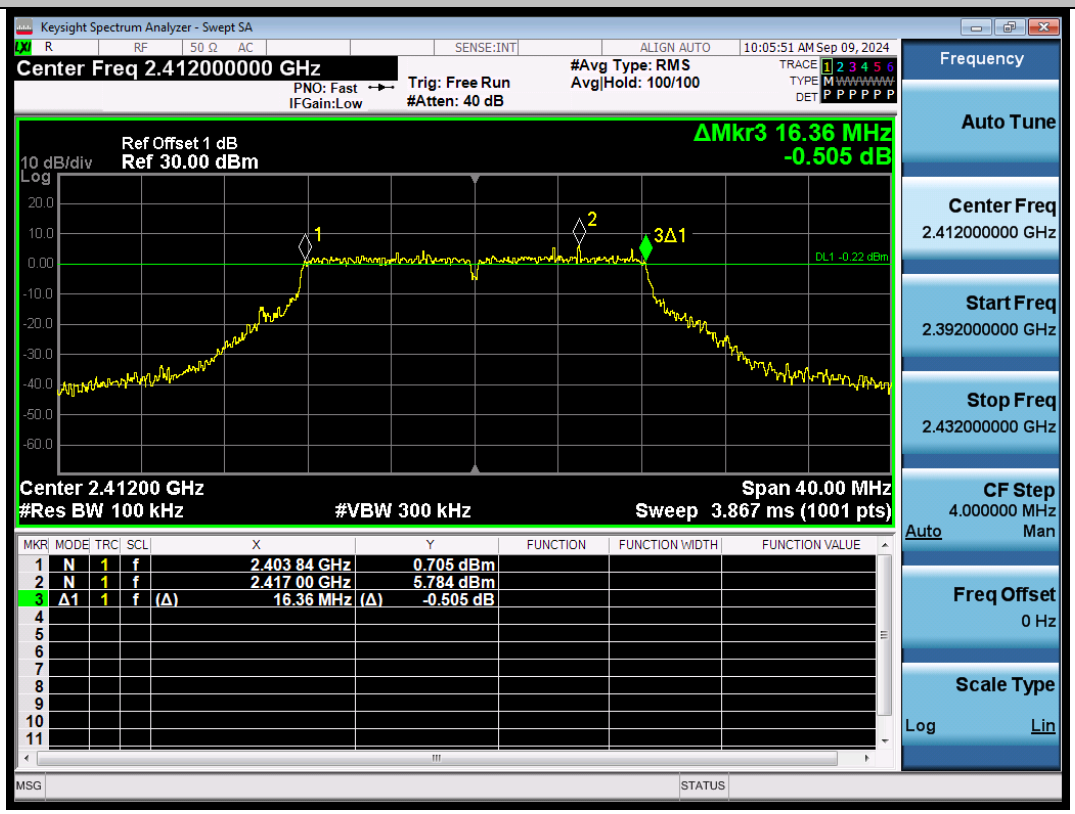

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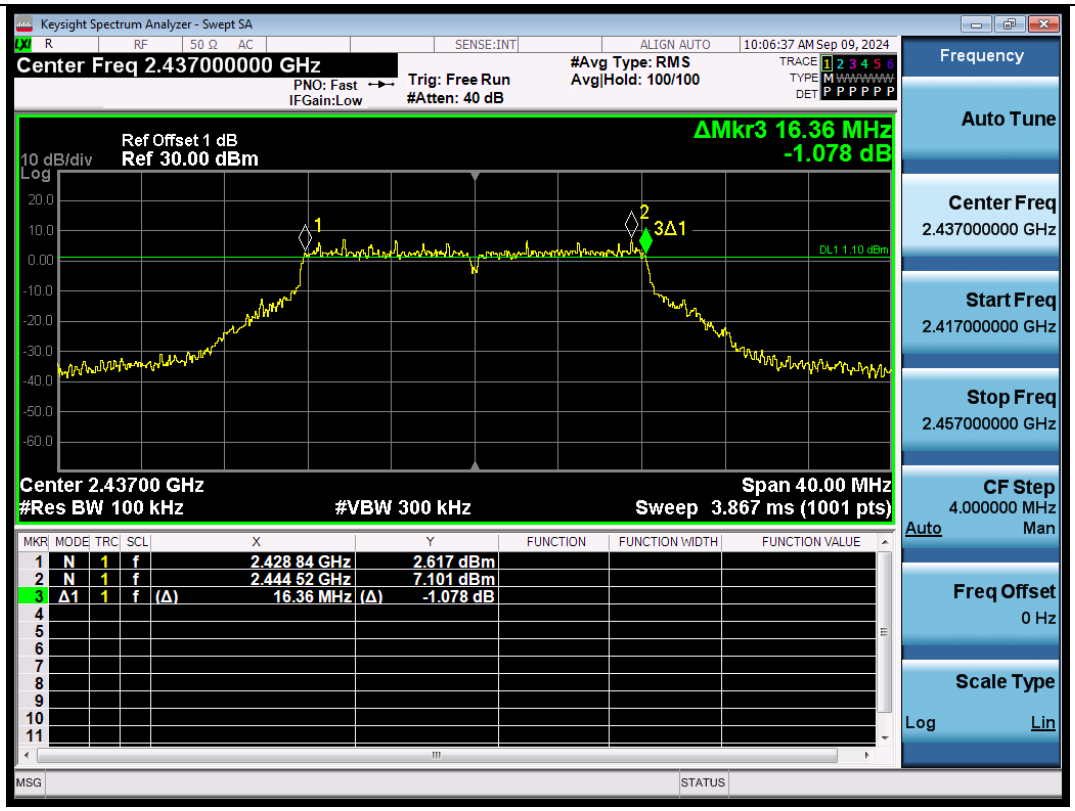

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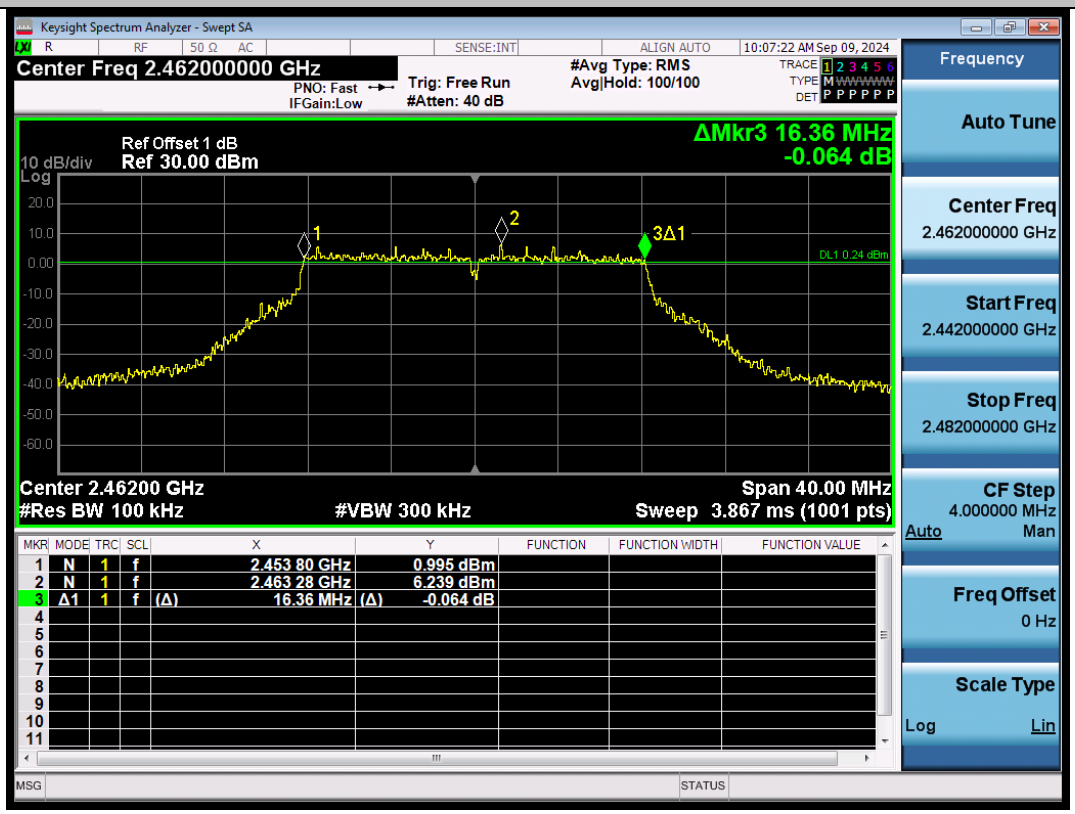

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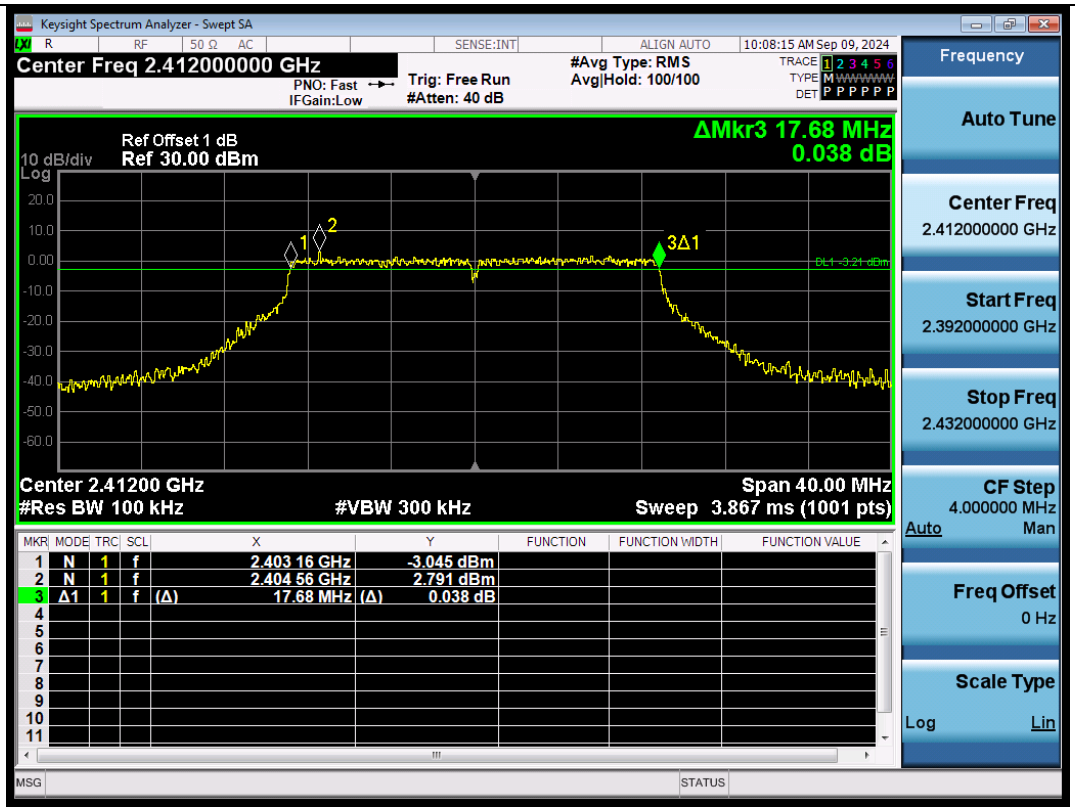

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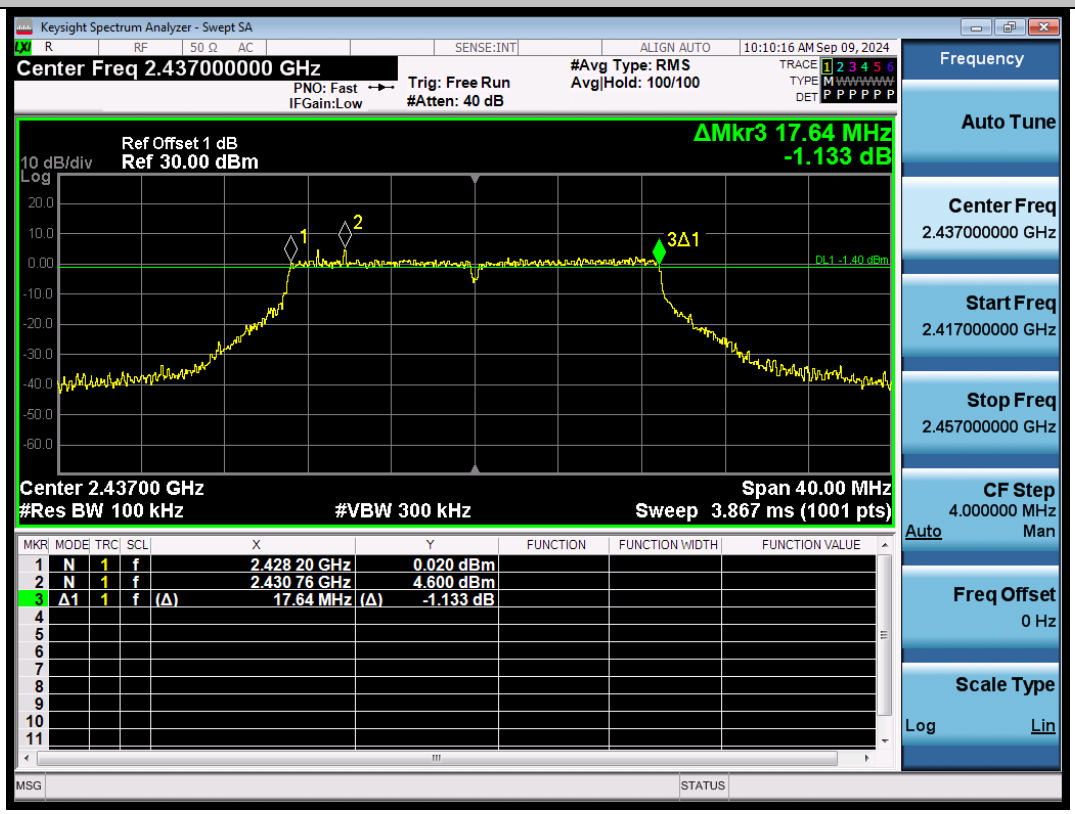

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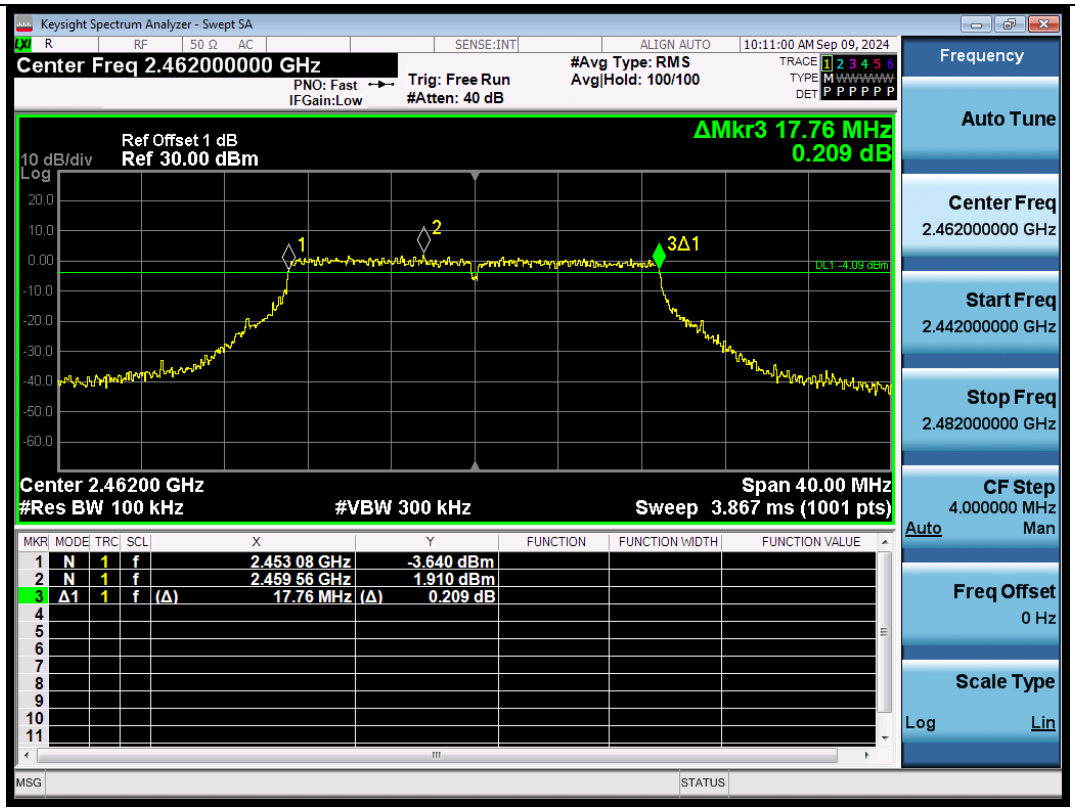

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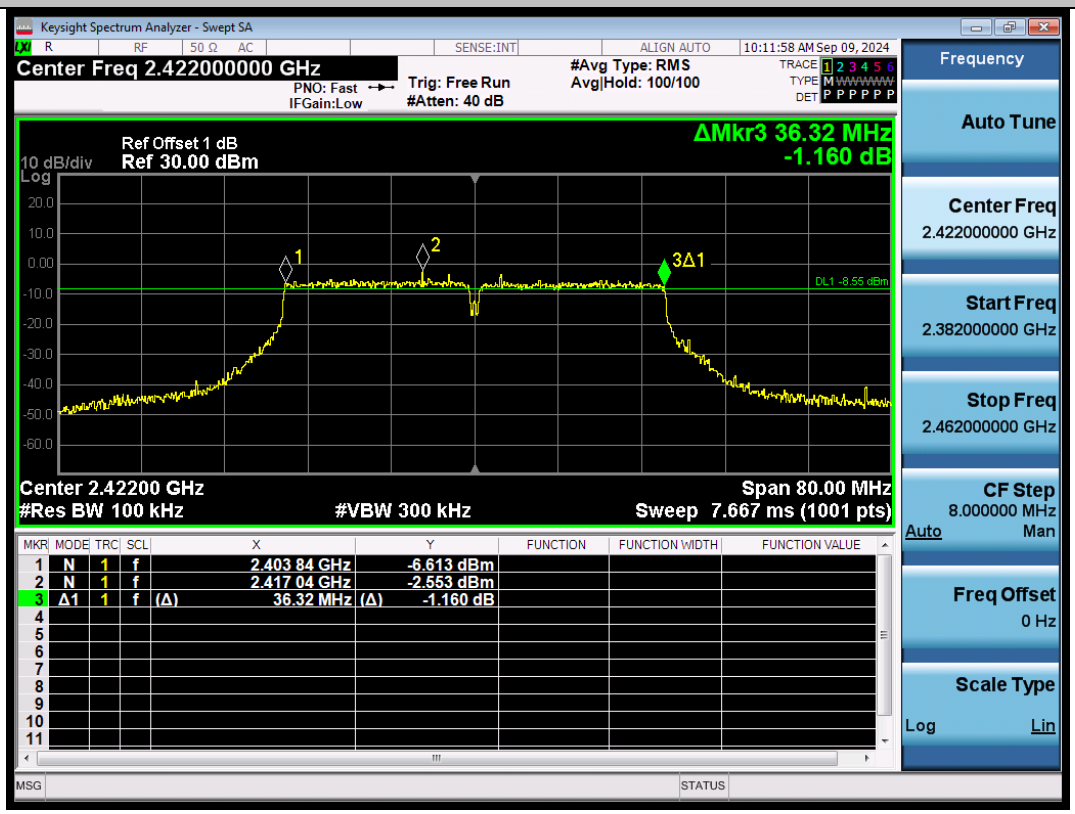

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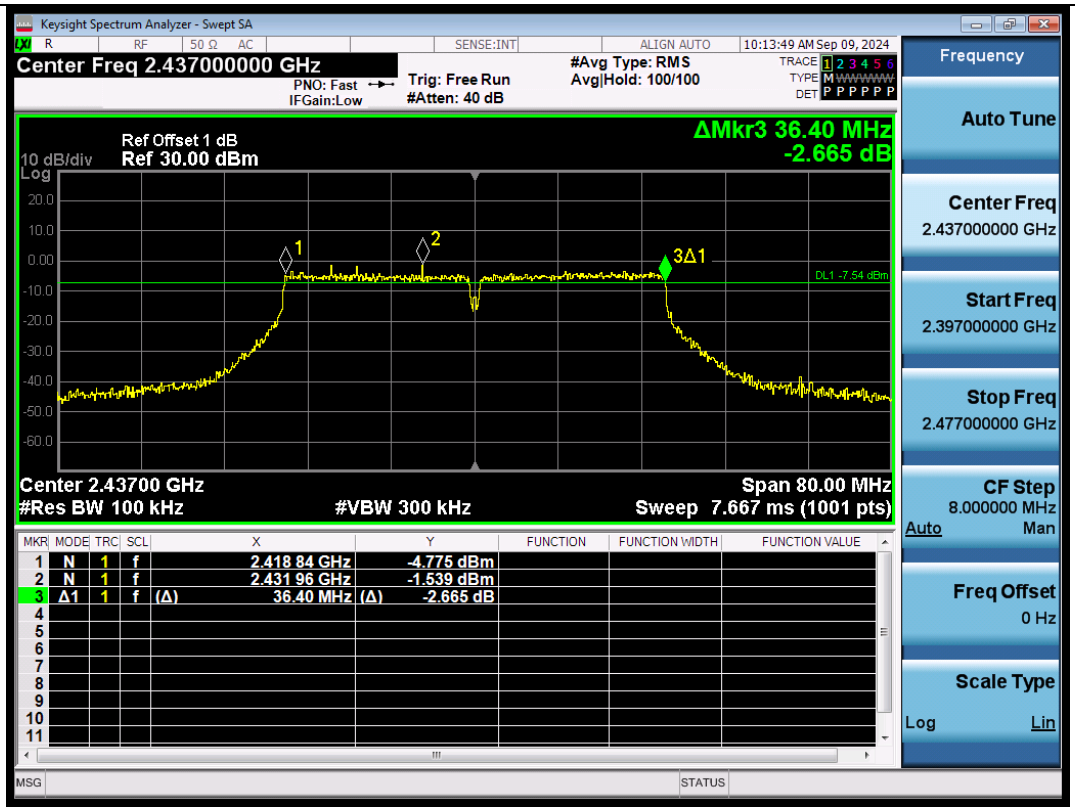

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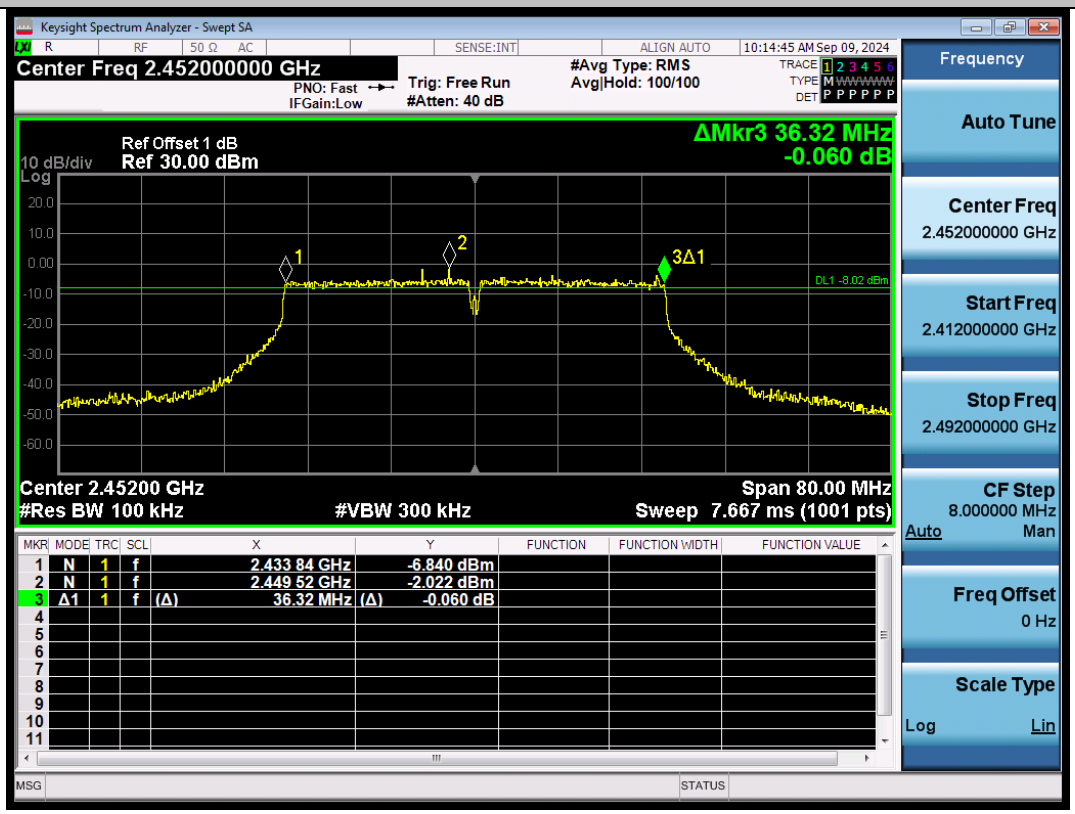

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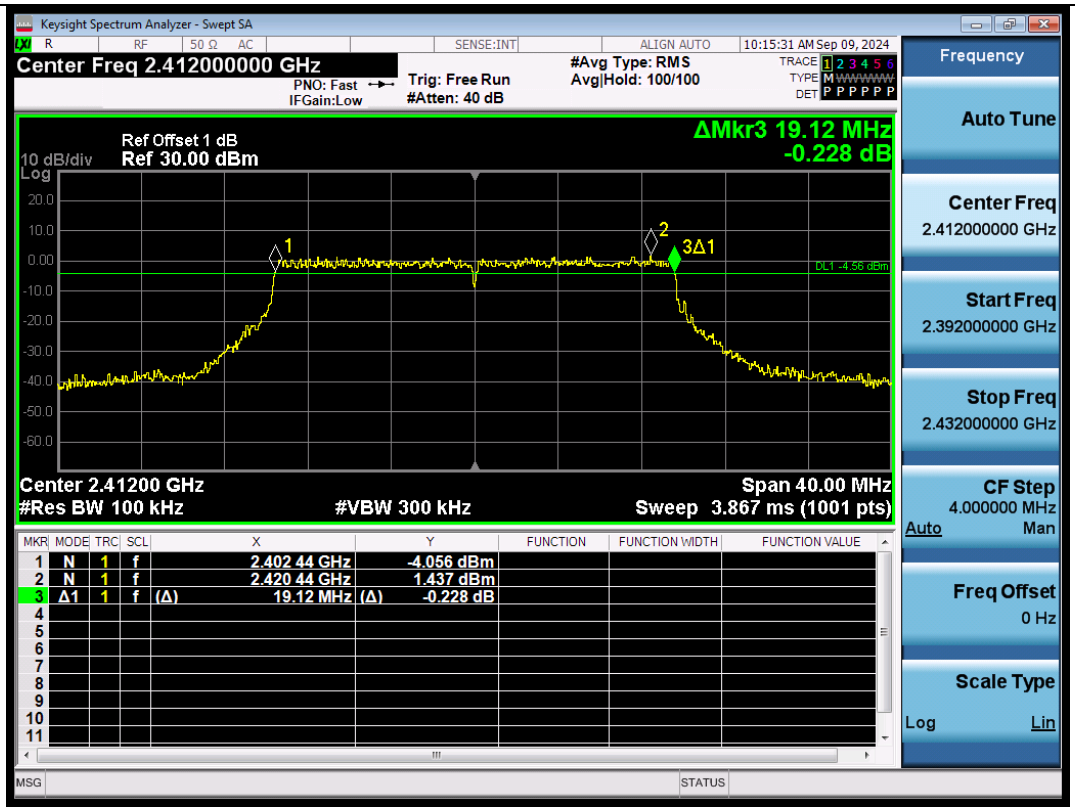

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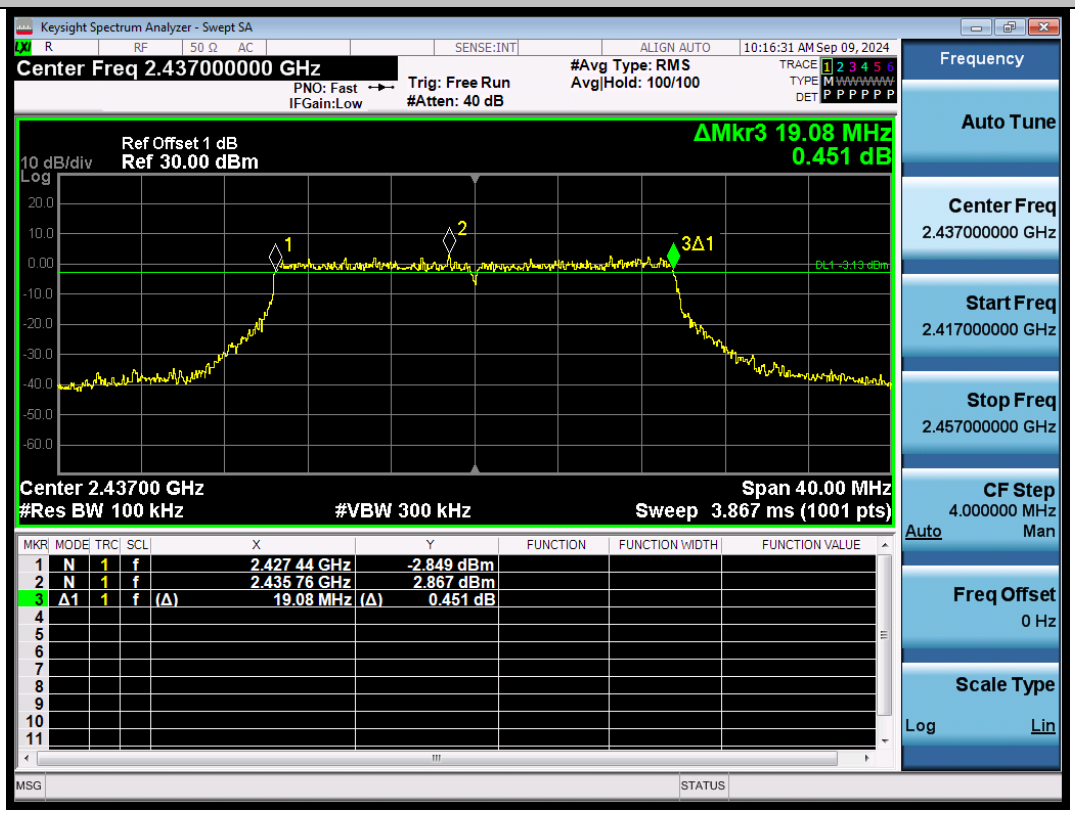

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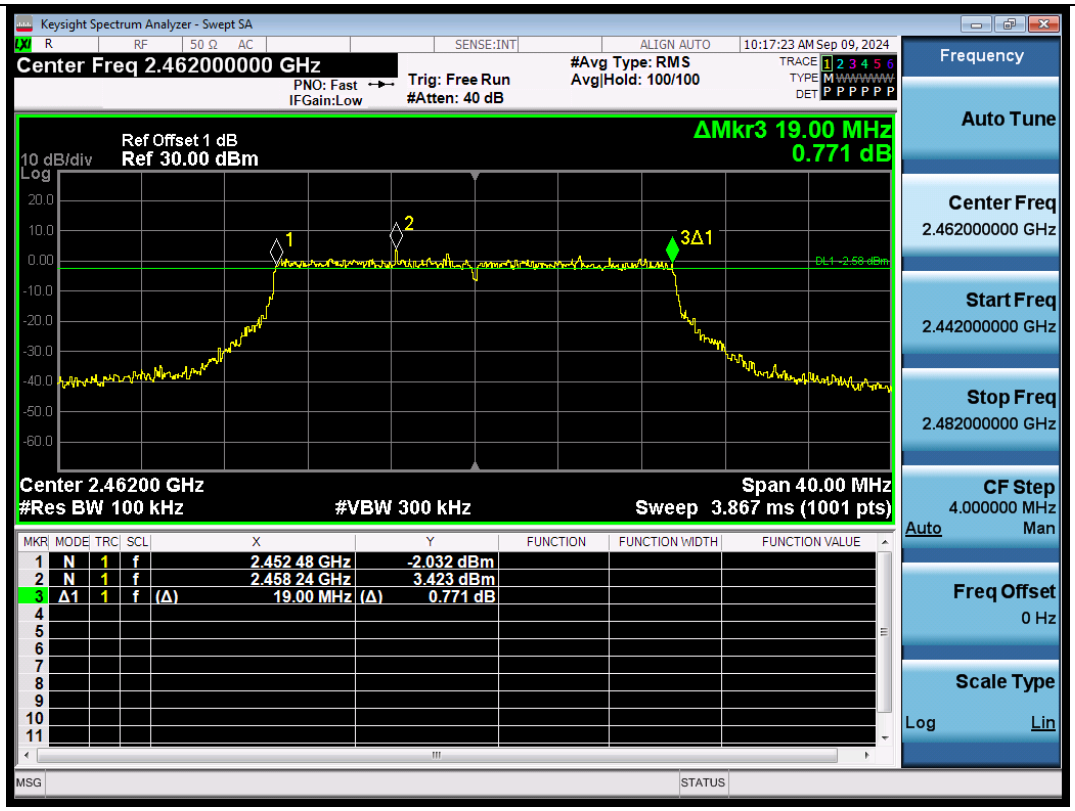

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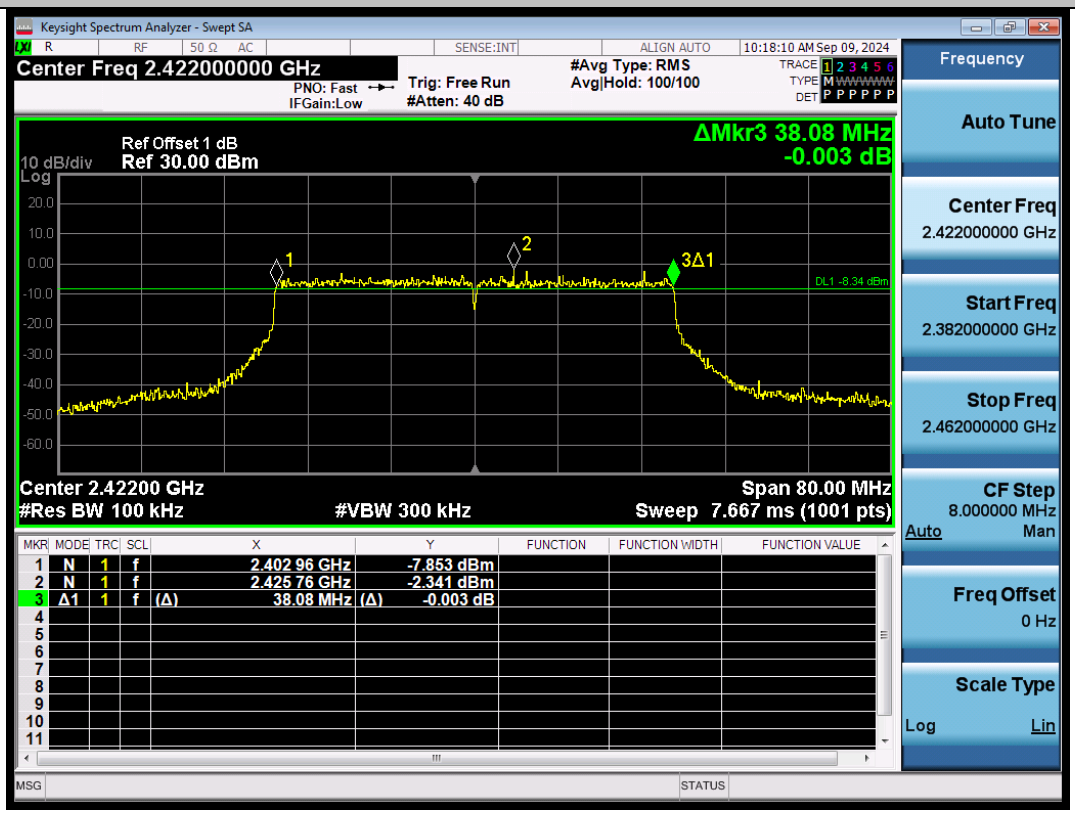

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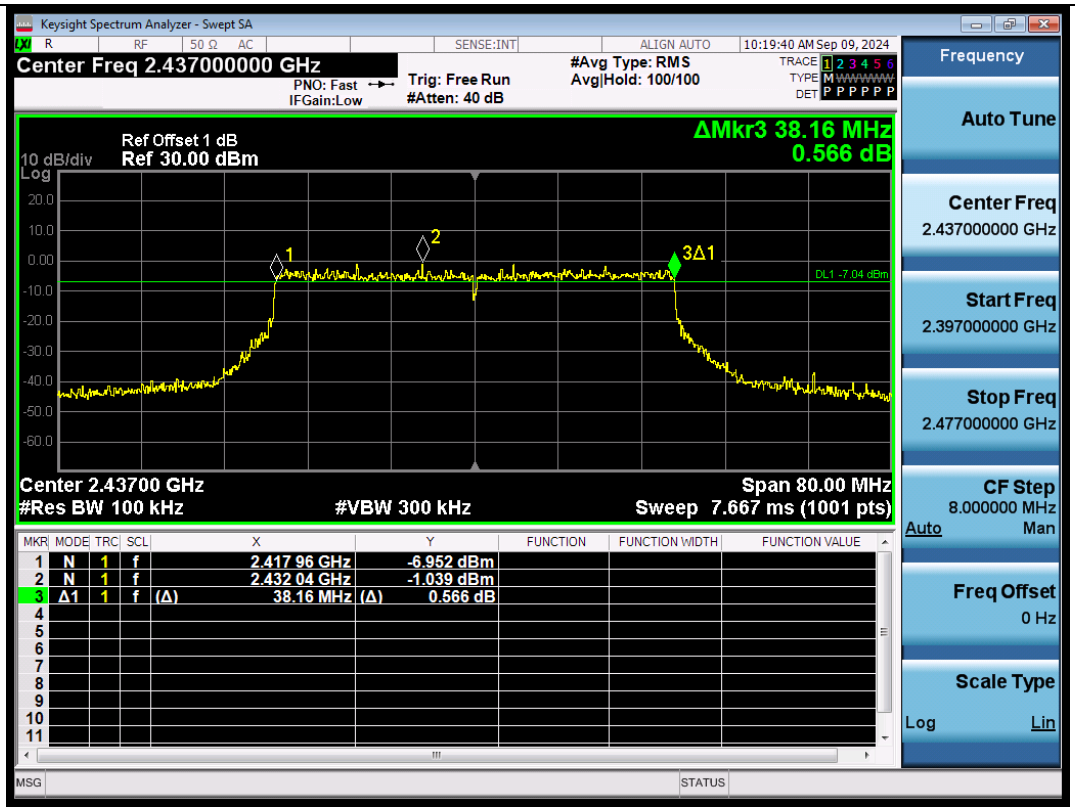

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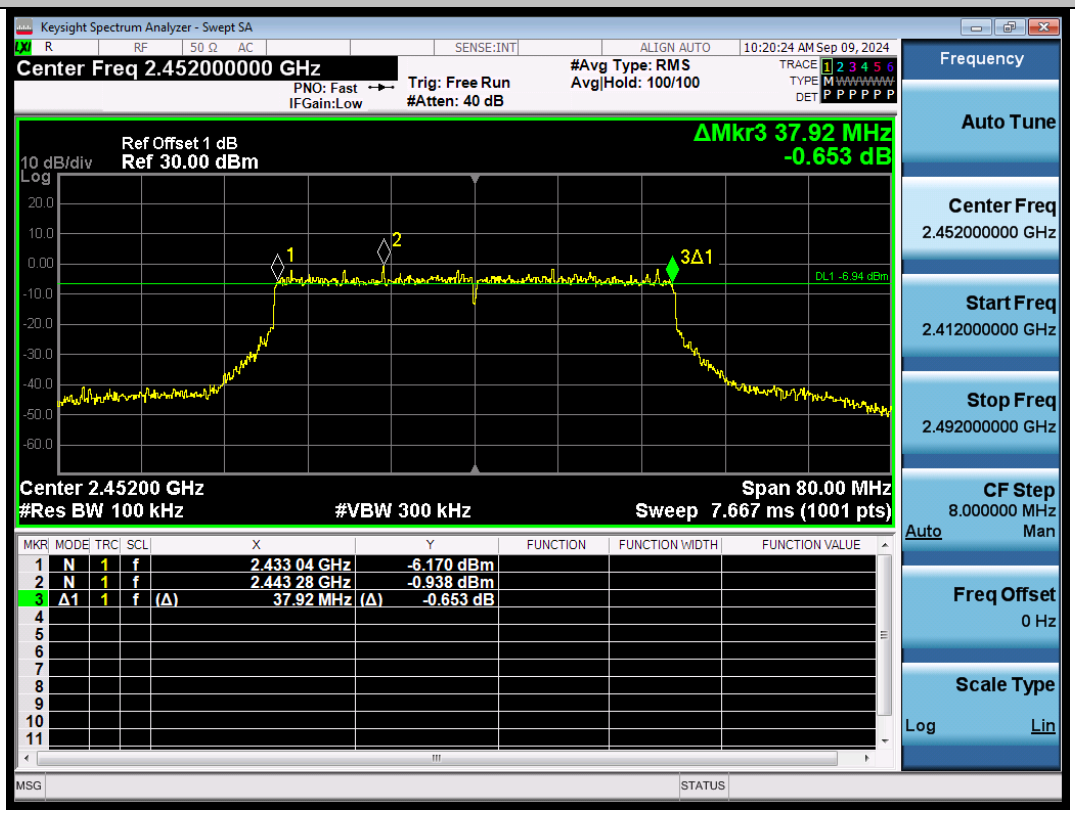

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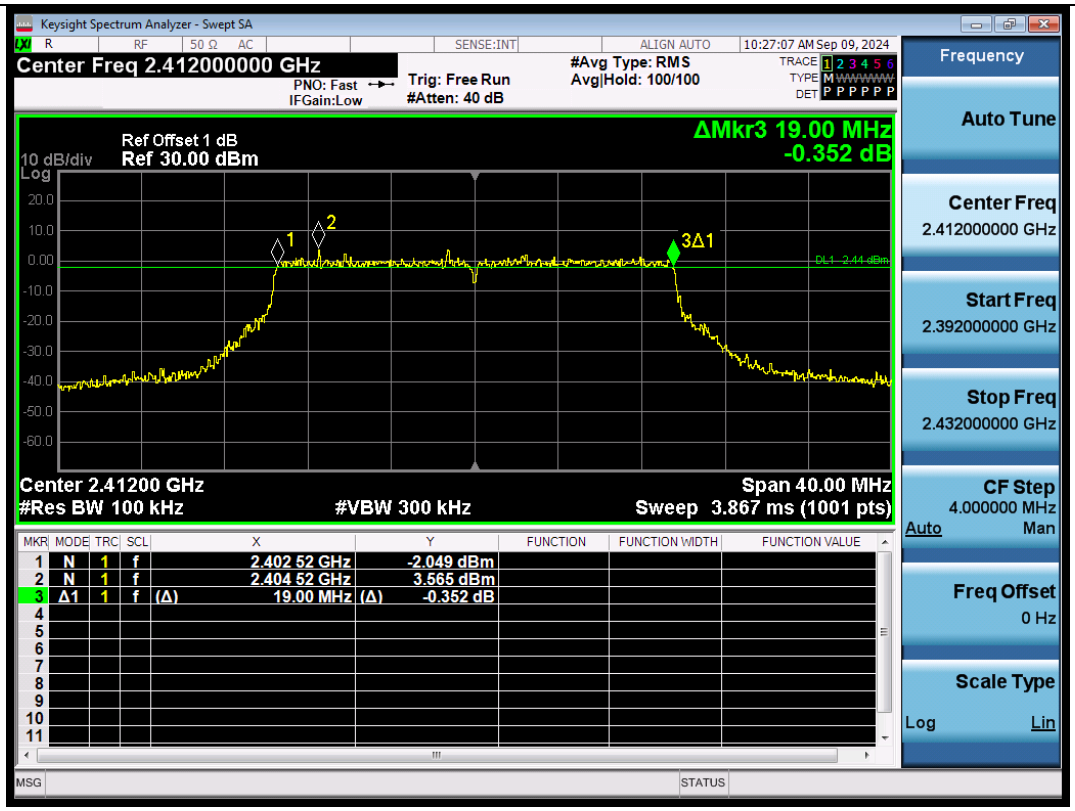

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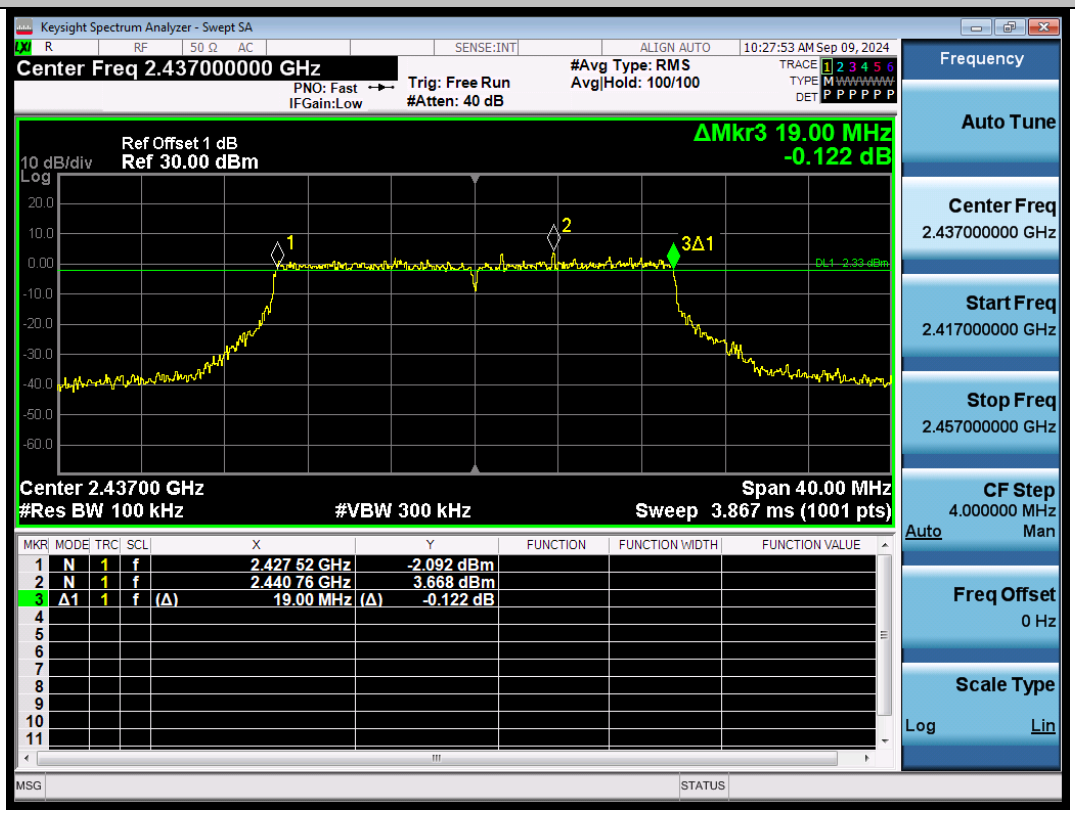

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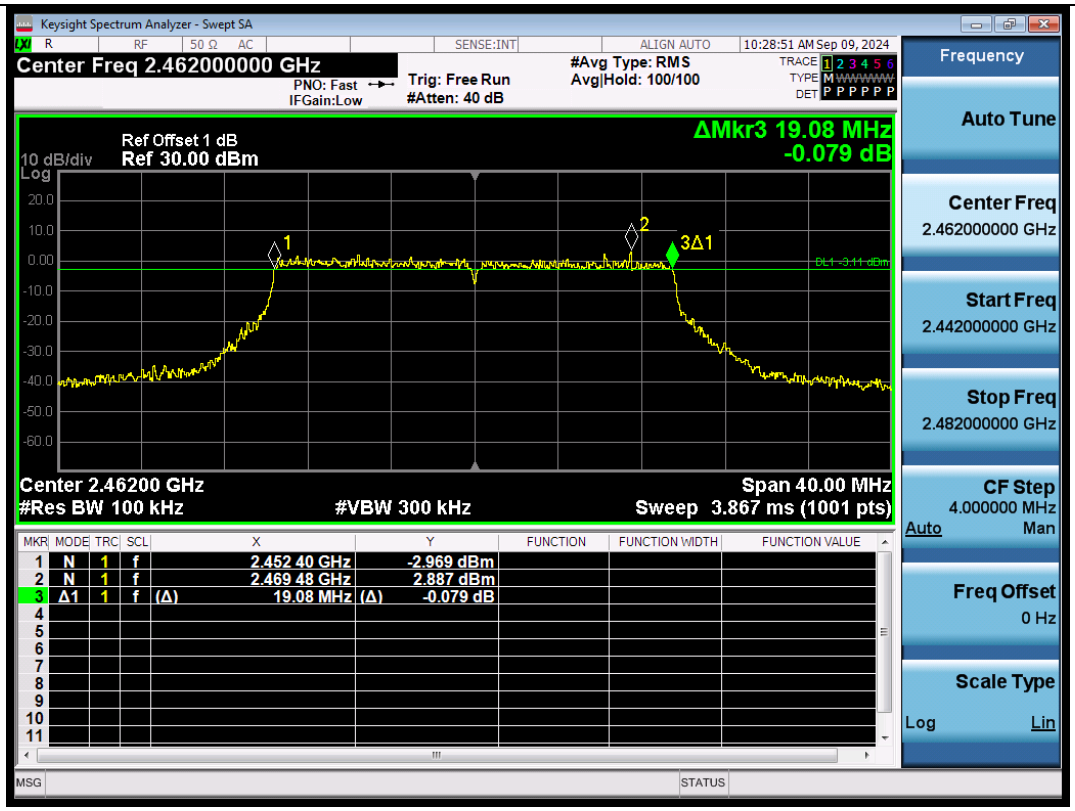

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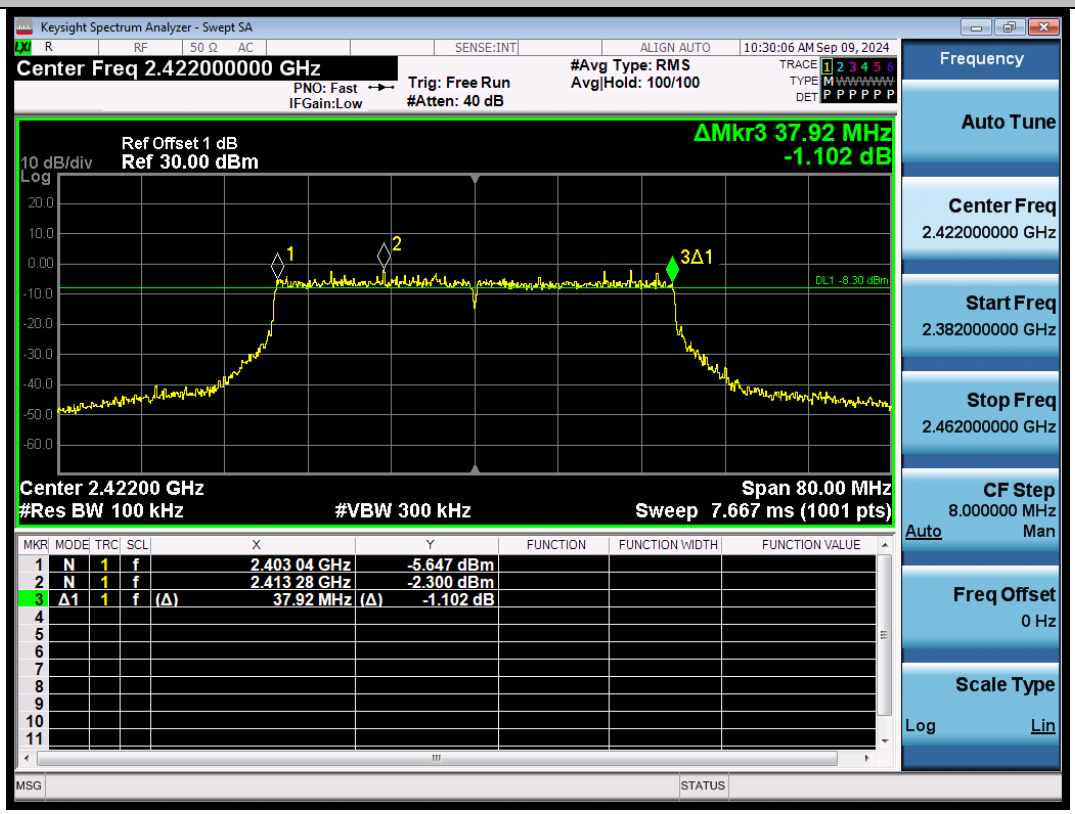

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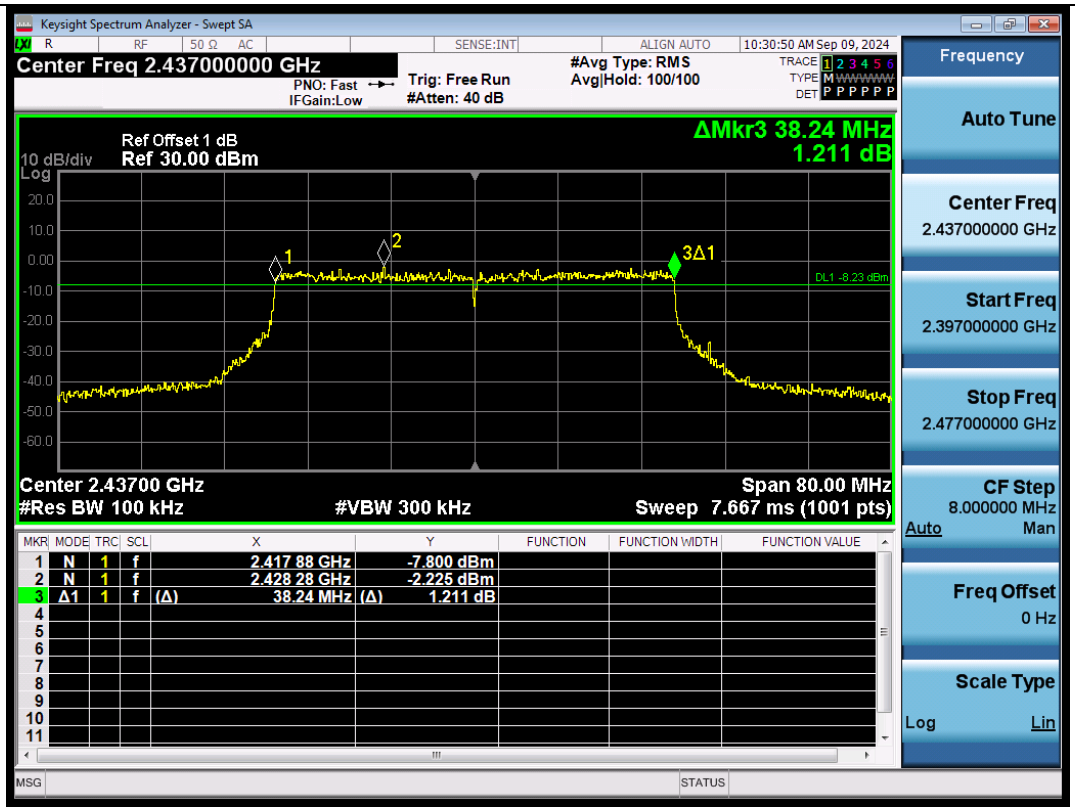

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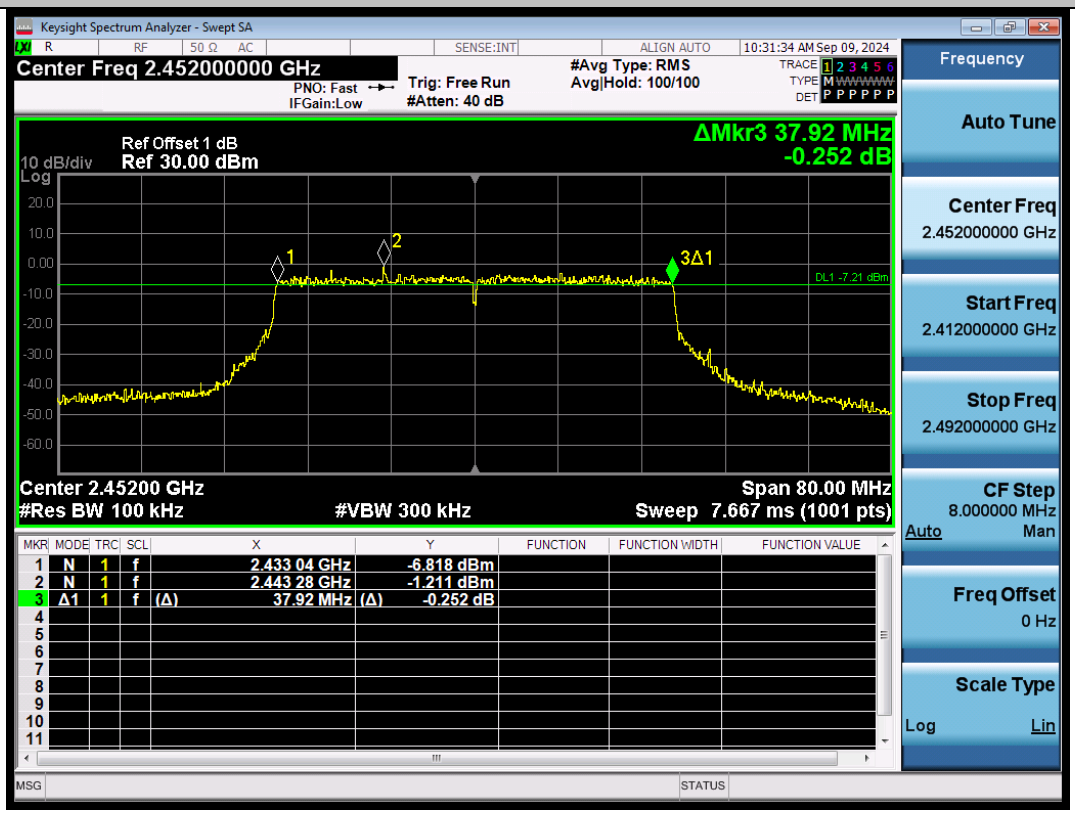
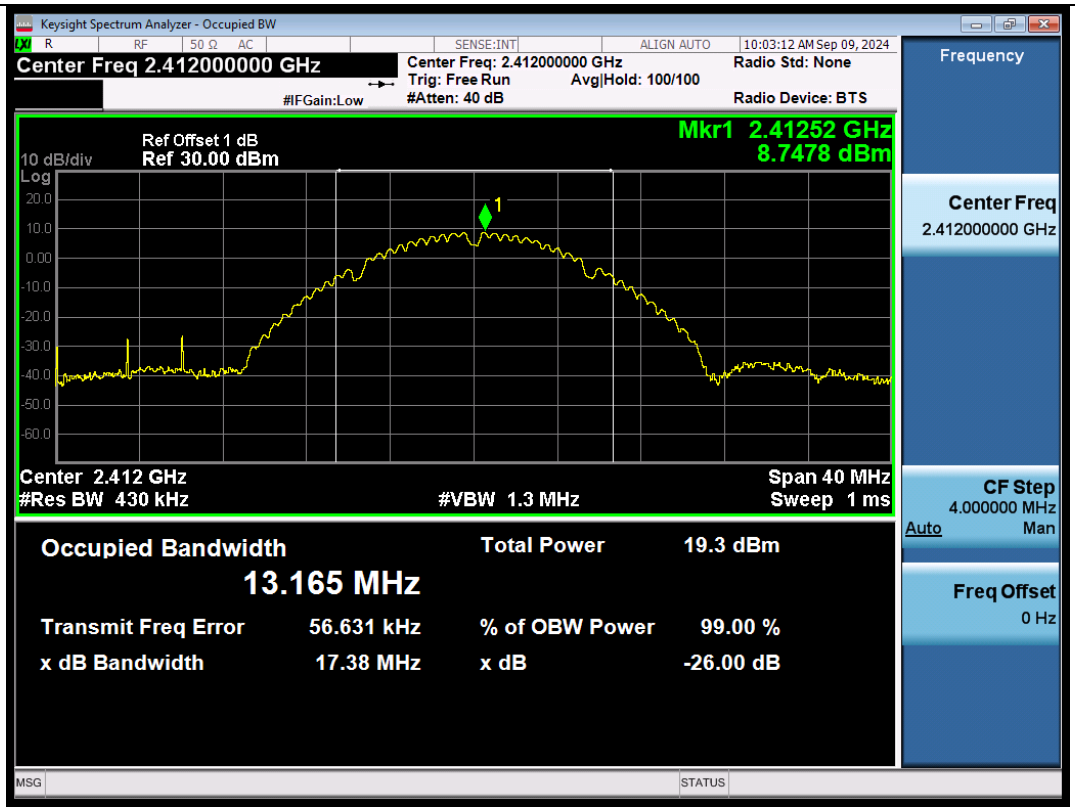


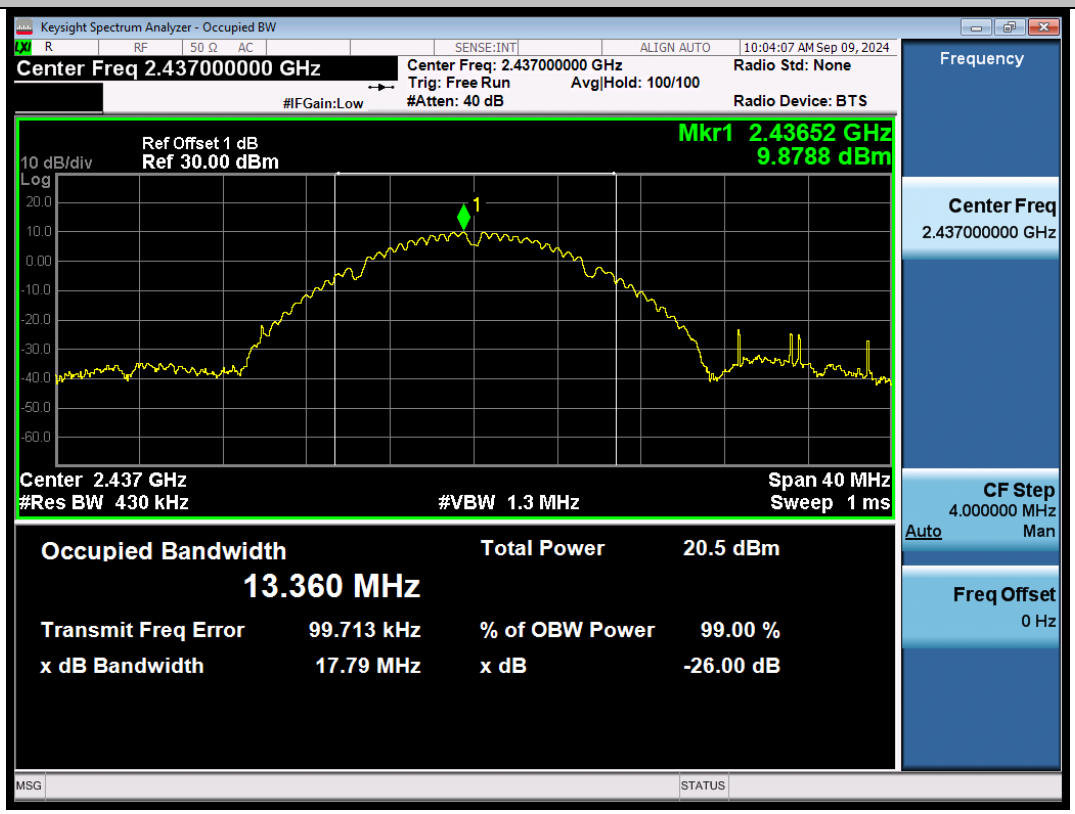
11BE40SISO-Ant1-2452-PASS

Appendix B: Occupied Channel Bandwidth

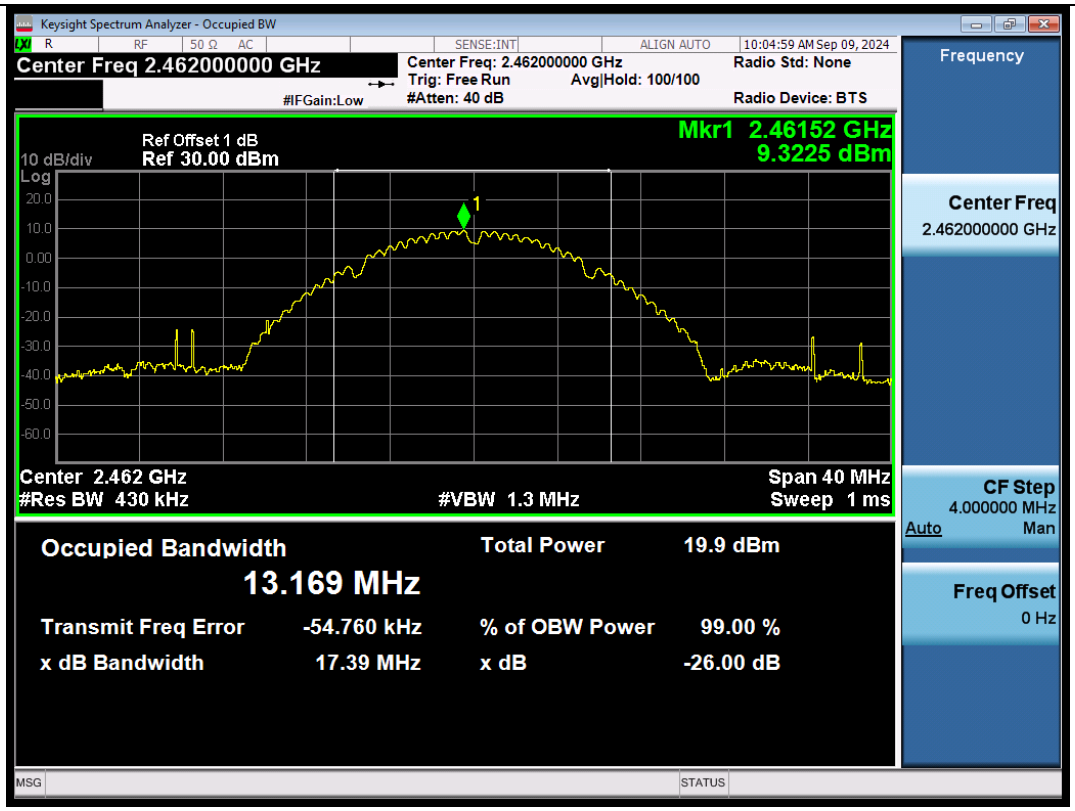
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	13.165	2405.4741	2418.6391
11B	Ant1	2437	13.360	2430.4197	2443.7797
11B	Ant1	2462	13.169	2455.3607	2468.5297
11G	Ant1	2412	17.130	2403.4292	2420.5592
11G	Ant1	2437	17.307	2428.3418	2445.6488
11G	Ant1	2462	17.197	2453.3240	2470.5210
11N20SISO	Ant1	2412	18.204	2402.9506	2421.1546
11N20SISO	Ant1	2437	18.290	2427.9225	2446.2125
11N20SISO	Ant1	2462	18.283	2452.8101	2471.0931
11N40SISO	Ant1	2422	36.891	2403.5696	2440.4606
11N40SISO	Ant1	2437	37.071	2418.4919	2455.5629
11N40SISO	Ant1	2452	36.814	2433.5330	2470.3470
11AX20SISO	Ant1	2412	19.209	2402.4037	2421.6127
11AX20SISO	Ant1	2437	19.230	2427.4124	2446.6424
11AX20SISO	Ant1	2462	19.186	2452.3941	2471.5801
11AX40SISO	Ant1	2422	38.193	2402.8904	2441.0834
11AX40SISO	Ant1	2437	38.268	2417.9099	2456.1779
11AX40SISO	Ant1	2452	38.203	2432.9276	2471.1306
11BE20SISO	Ant1	2412	19.204	2402.4124	2421.6164
11BE20SISO	Ant1	2437	19.279	2427.3888	2446.6678
11BE20SISO	Ant1	2462	19.213	2452.3687	2471.5817
11BE40SISO	Ant1	2422	38.271	2402.8559	2441.1269
11BE40SISO	Ant1	2437	38.280	2417.8664	2456.1464
11BE40SISO	Ant1	2452	38.146	2432.9040	2471.0500
Note: We have evaluated SISO, CDD, Beamforming mode, shown in the report is the worst data.					



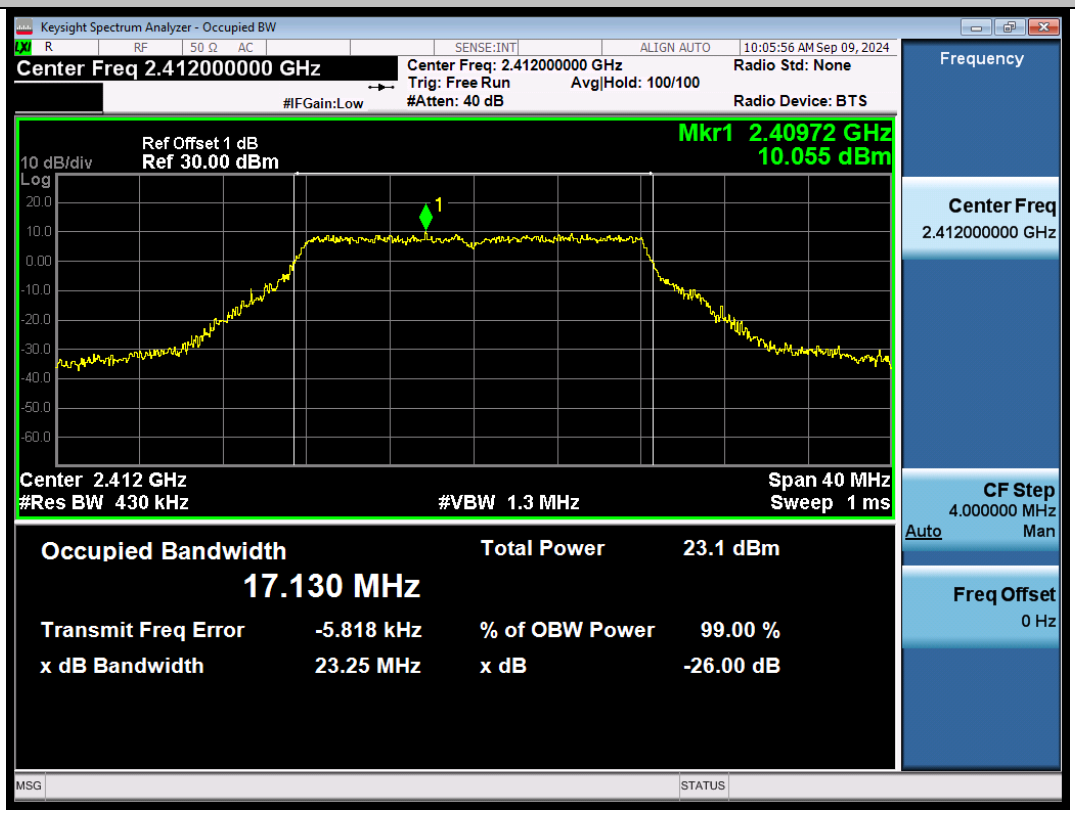
11B-Ant1-2412



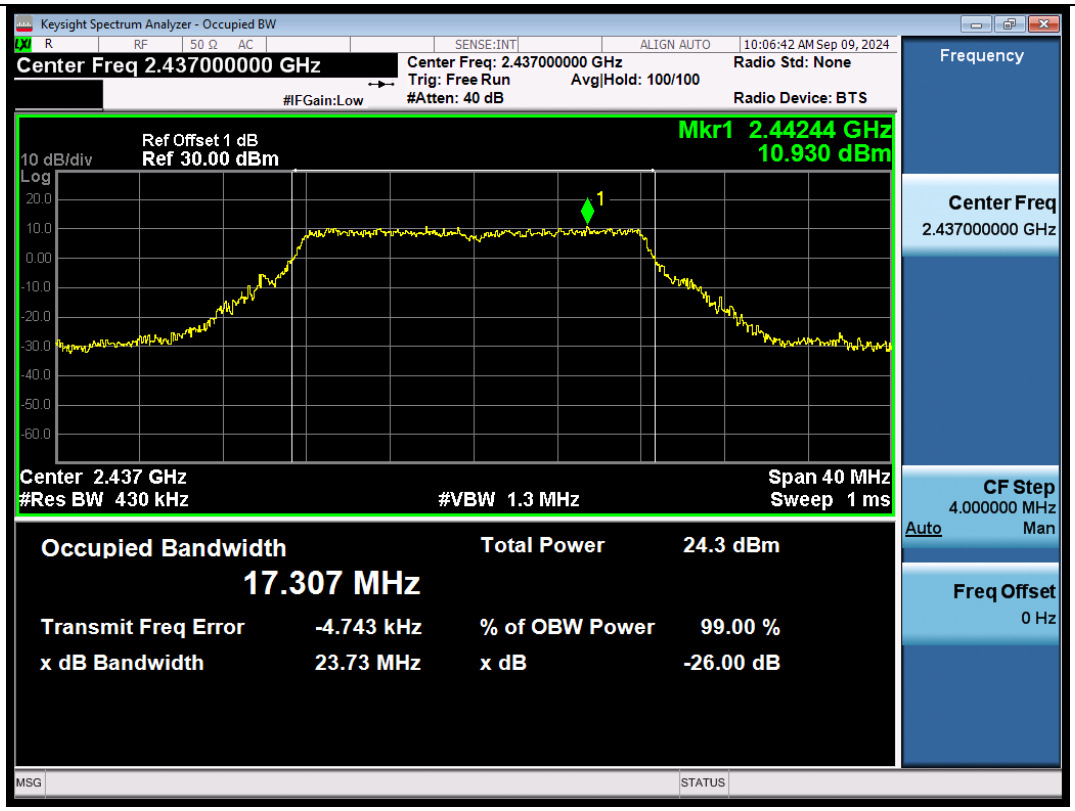
11B-Ant1-2437



11B-Ant1-2462



11G-Ant1-2412



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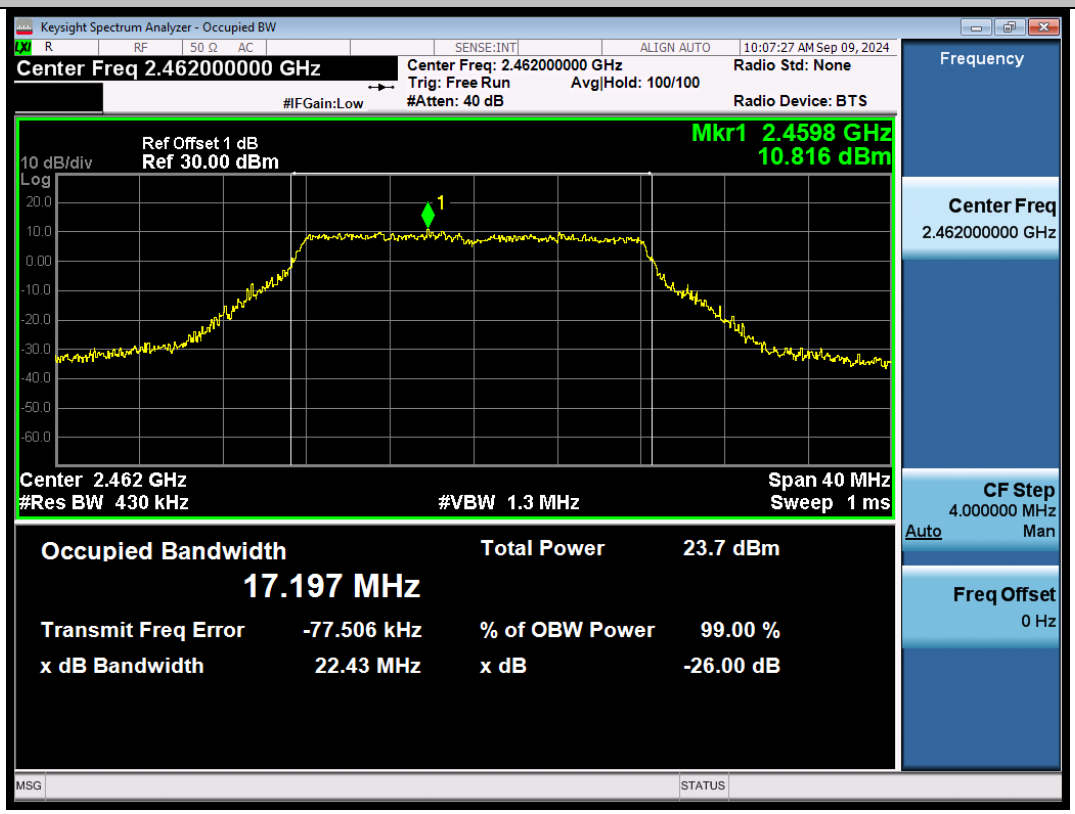

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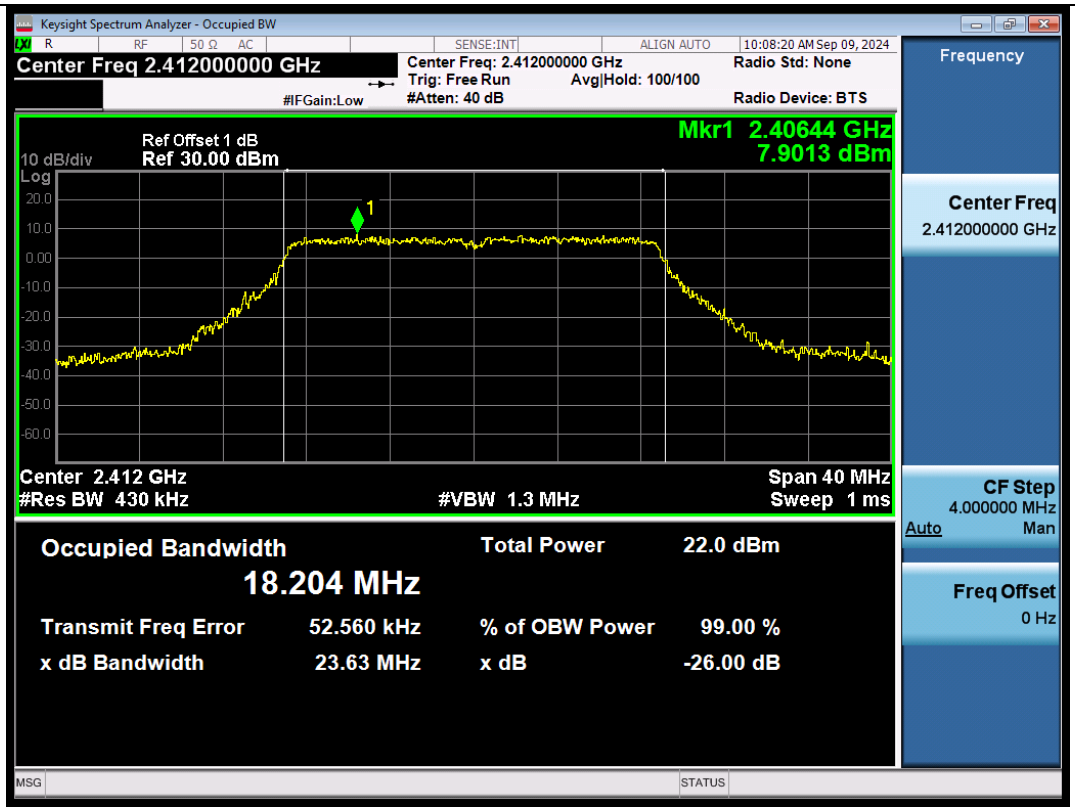

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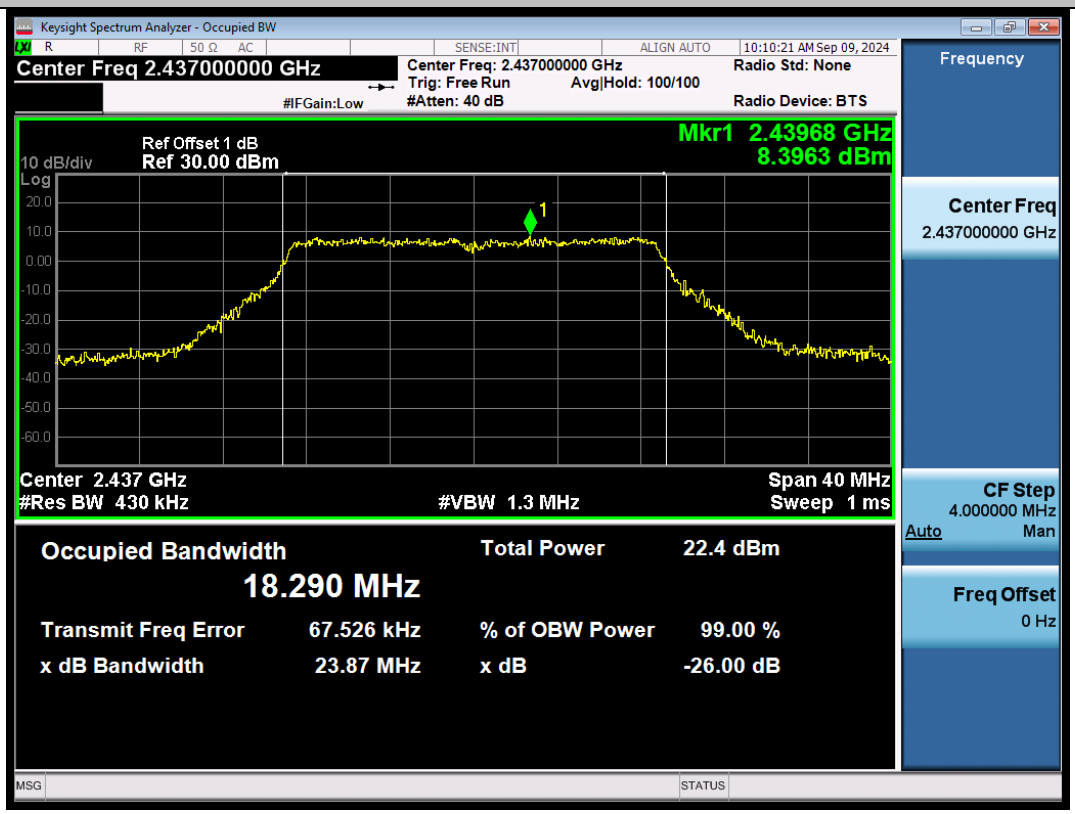

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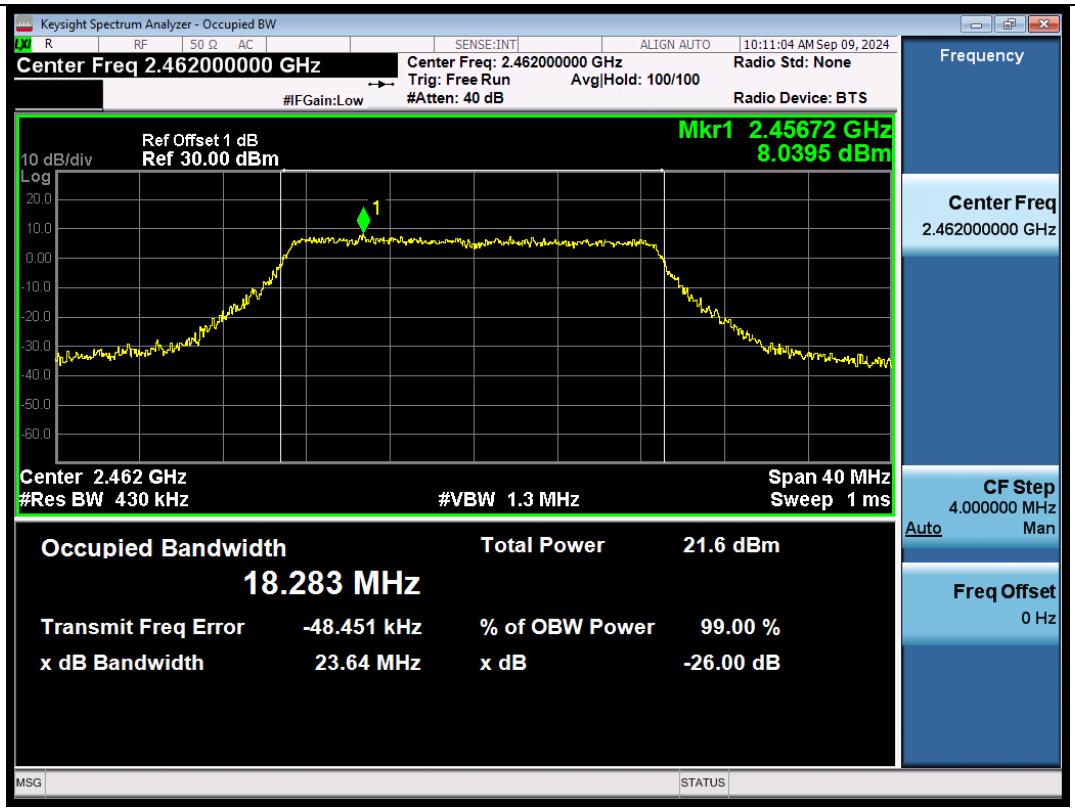

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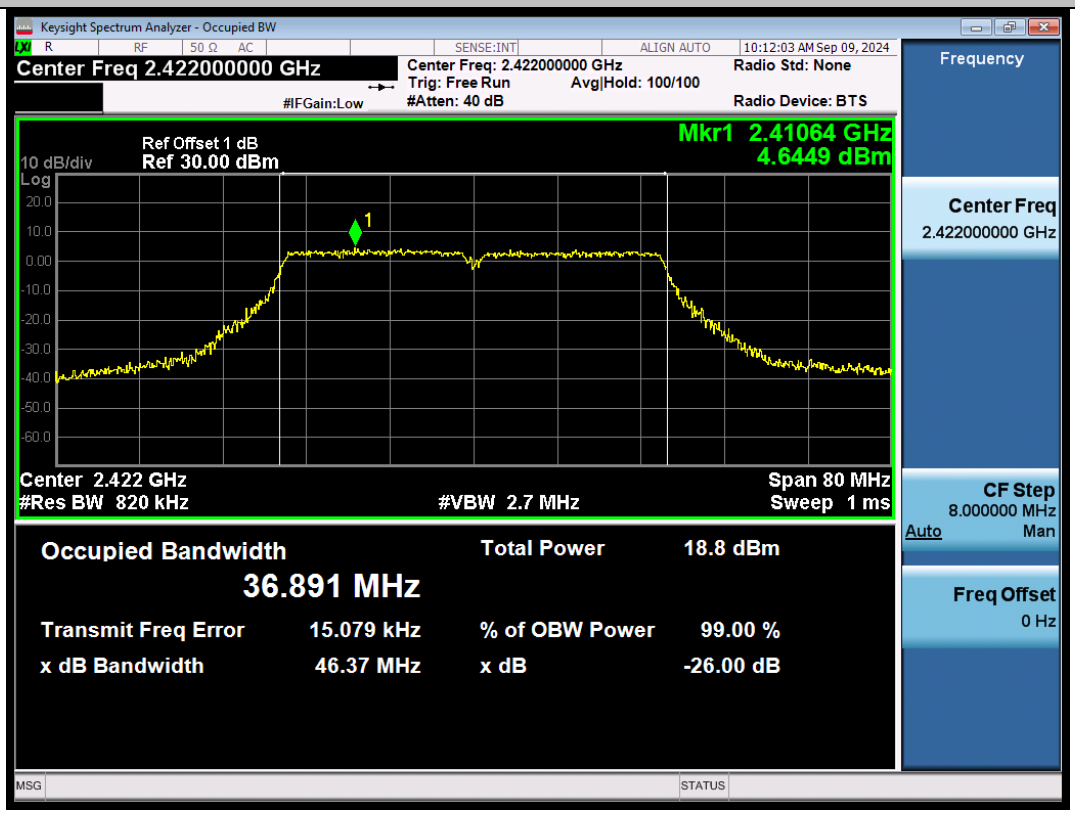

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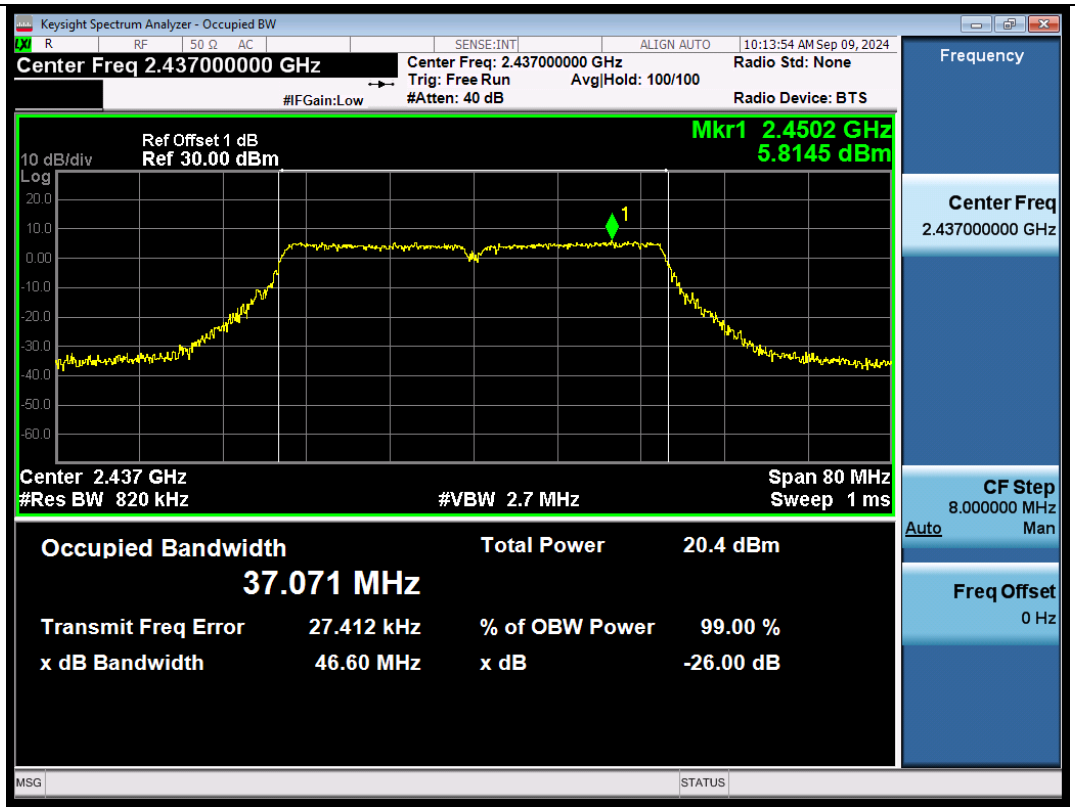
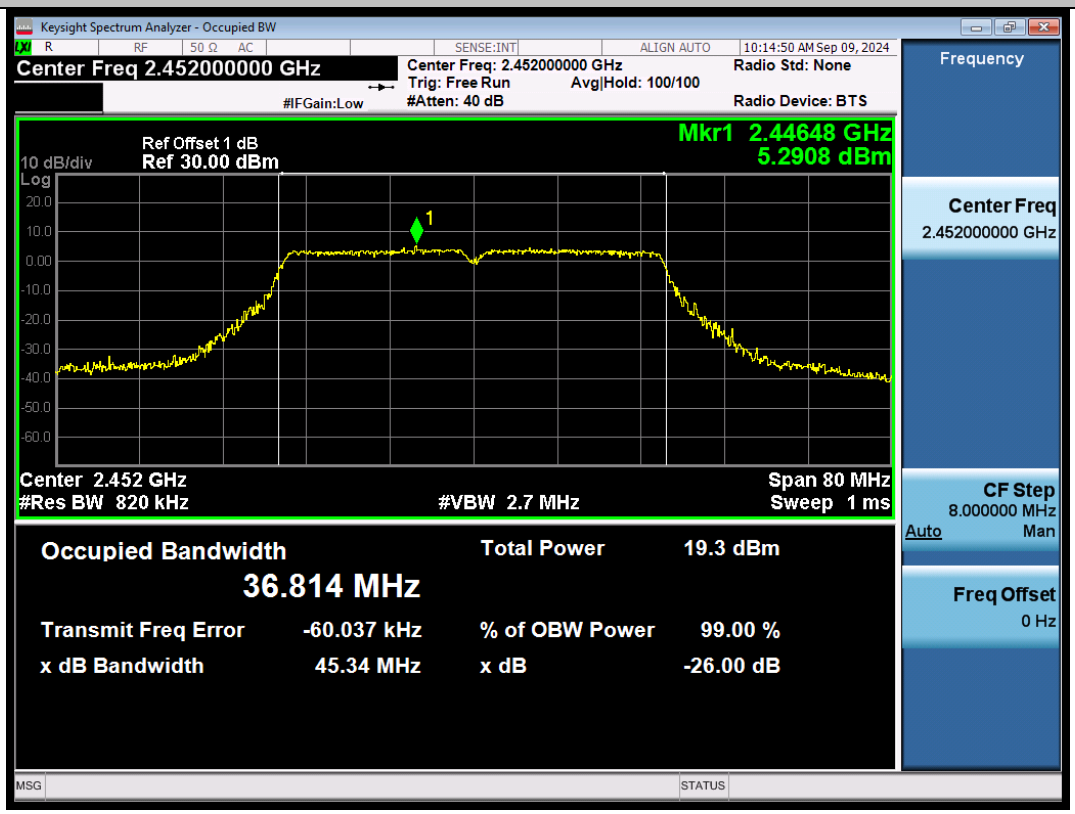
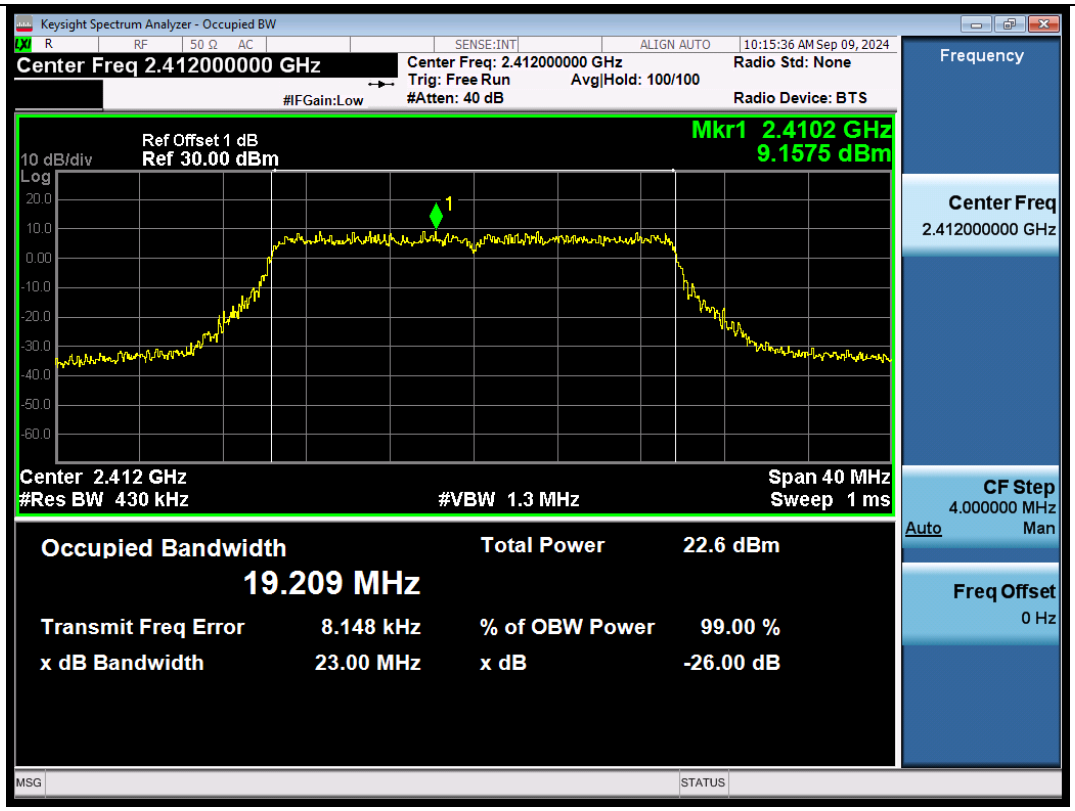


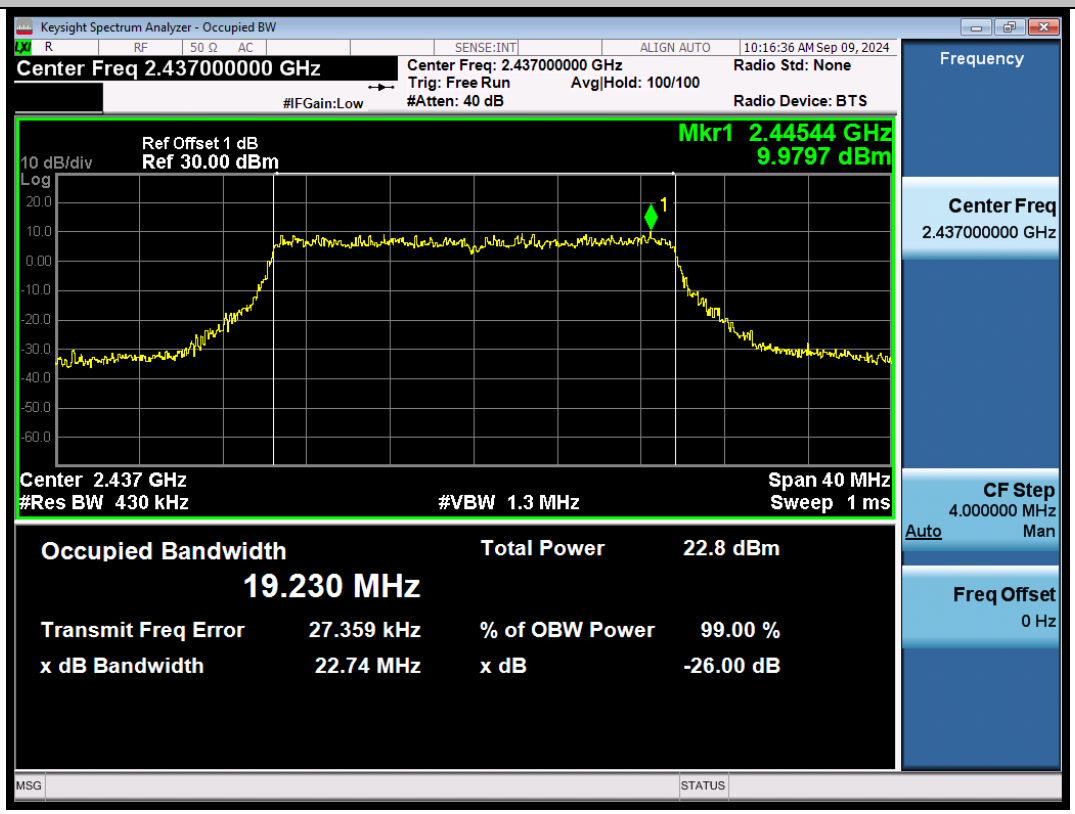
11N40SISO-Ant1-2437



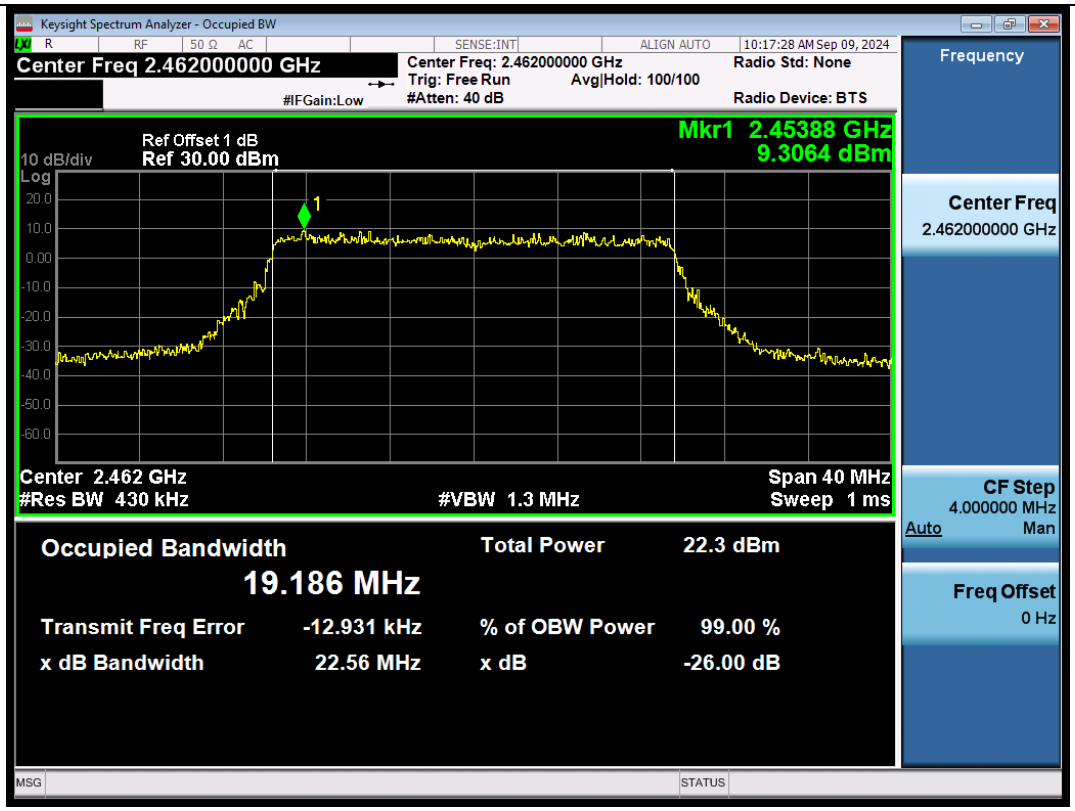
11N40SISO-Ant1-2452



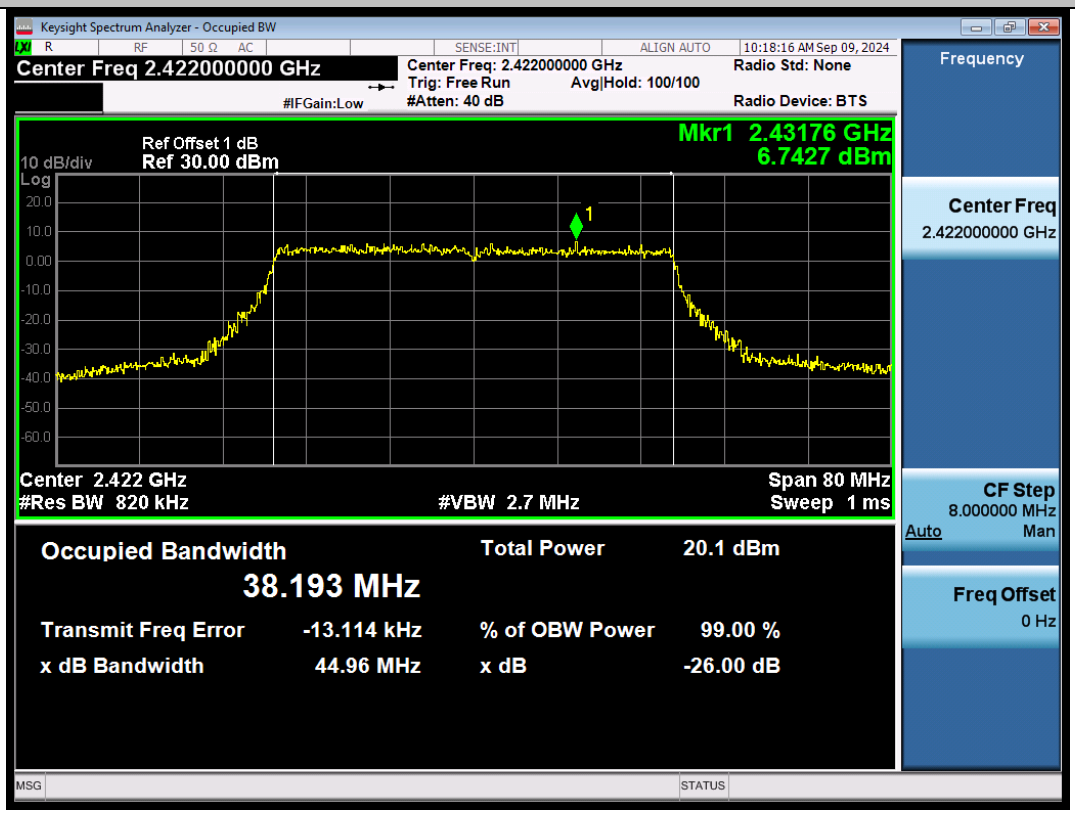
11AX20SISO-Ant1-2412



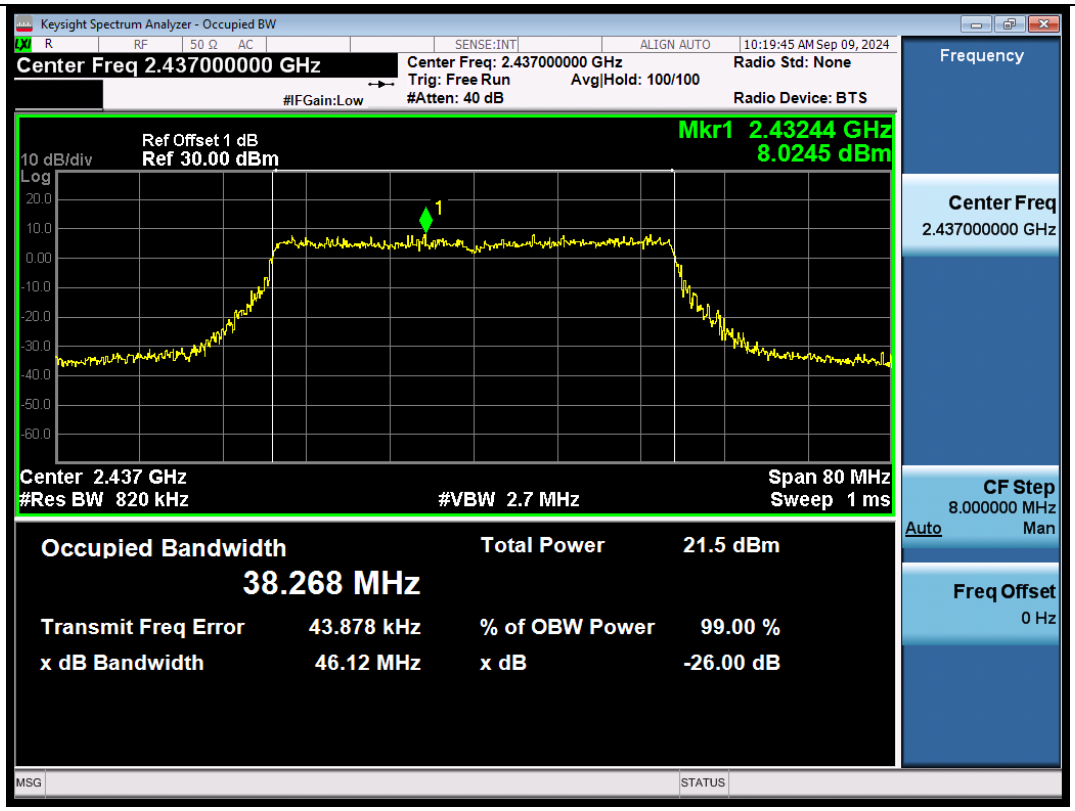
11AX20SISO-Ant1-2437



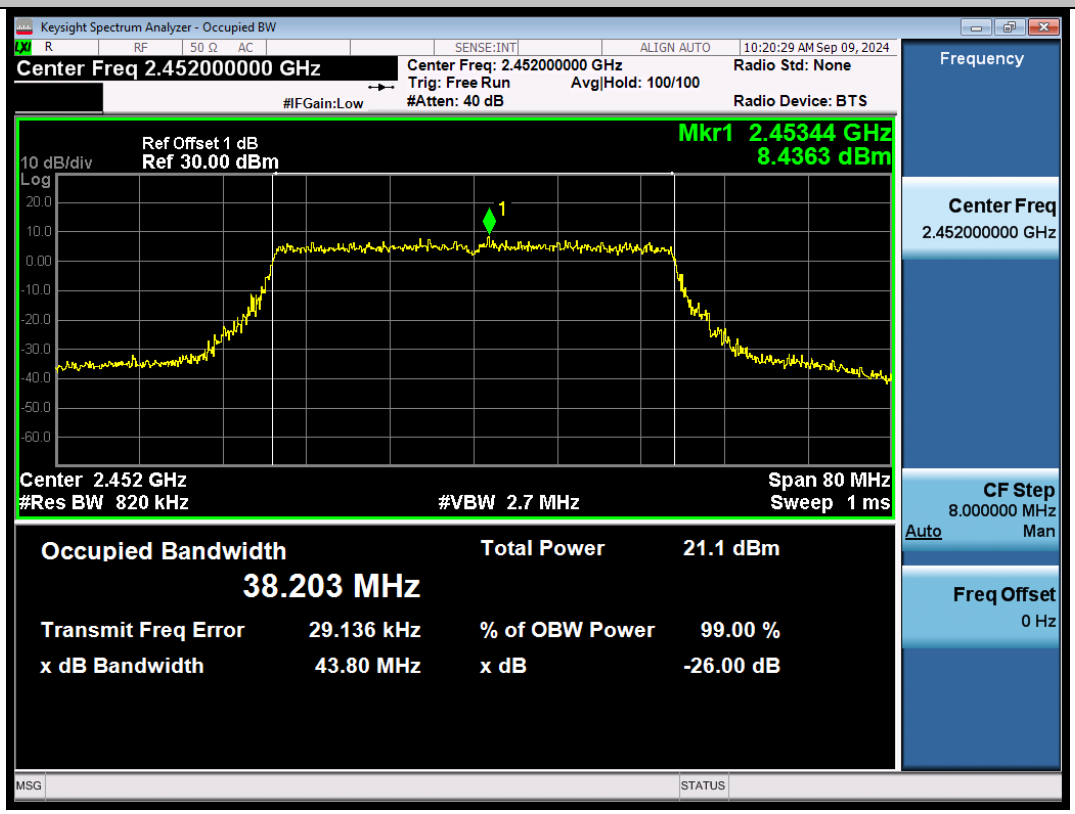
11AX20SISO-Ant1-2462



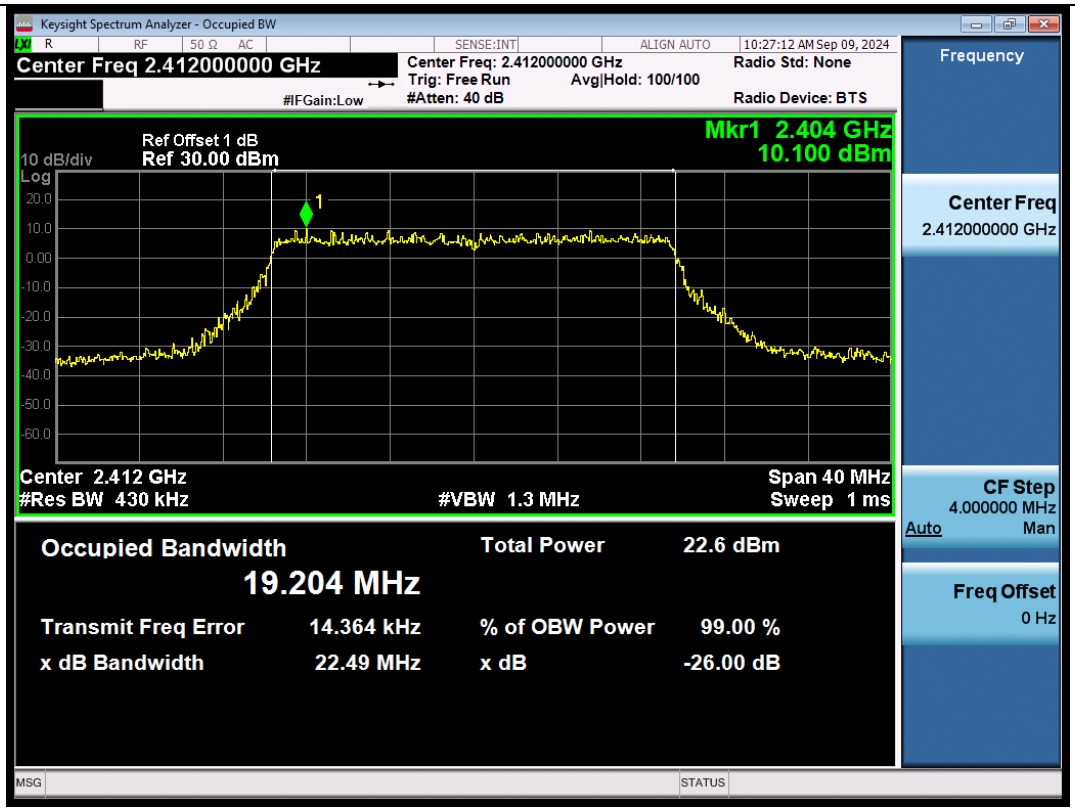
11AX40SISO-Ant1-2422



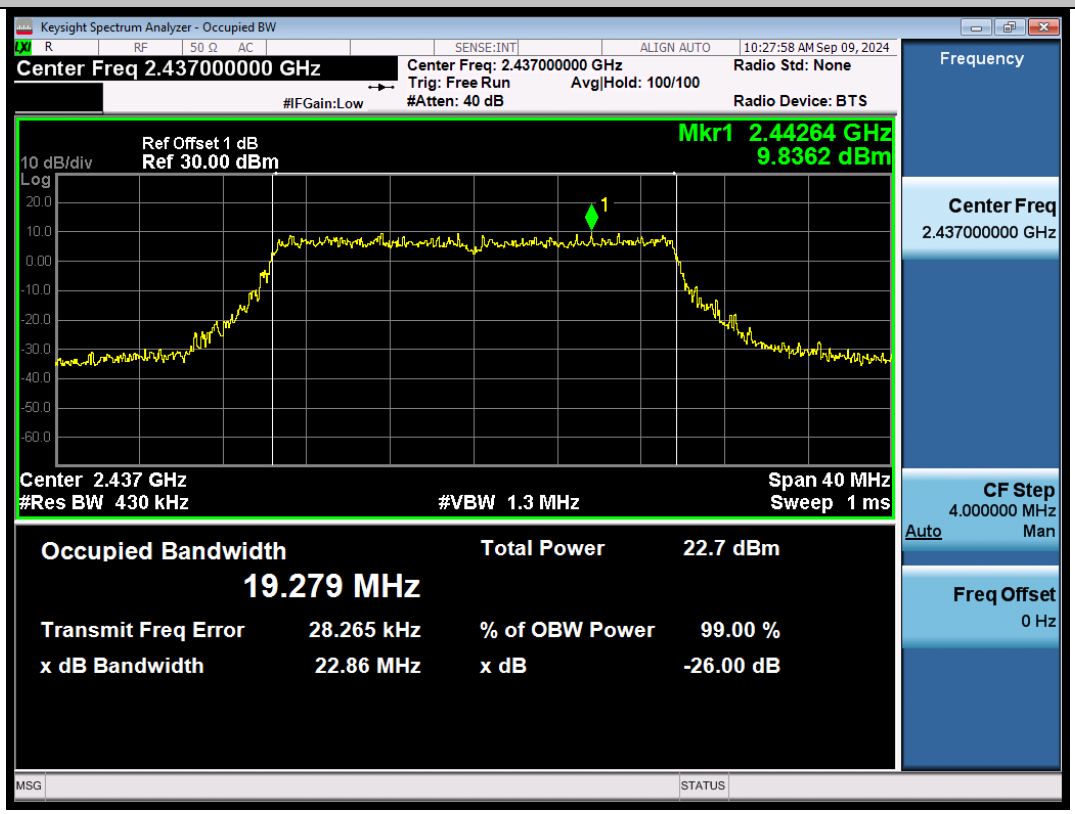
11AX40SISO-Ant1-2437



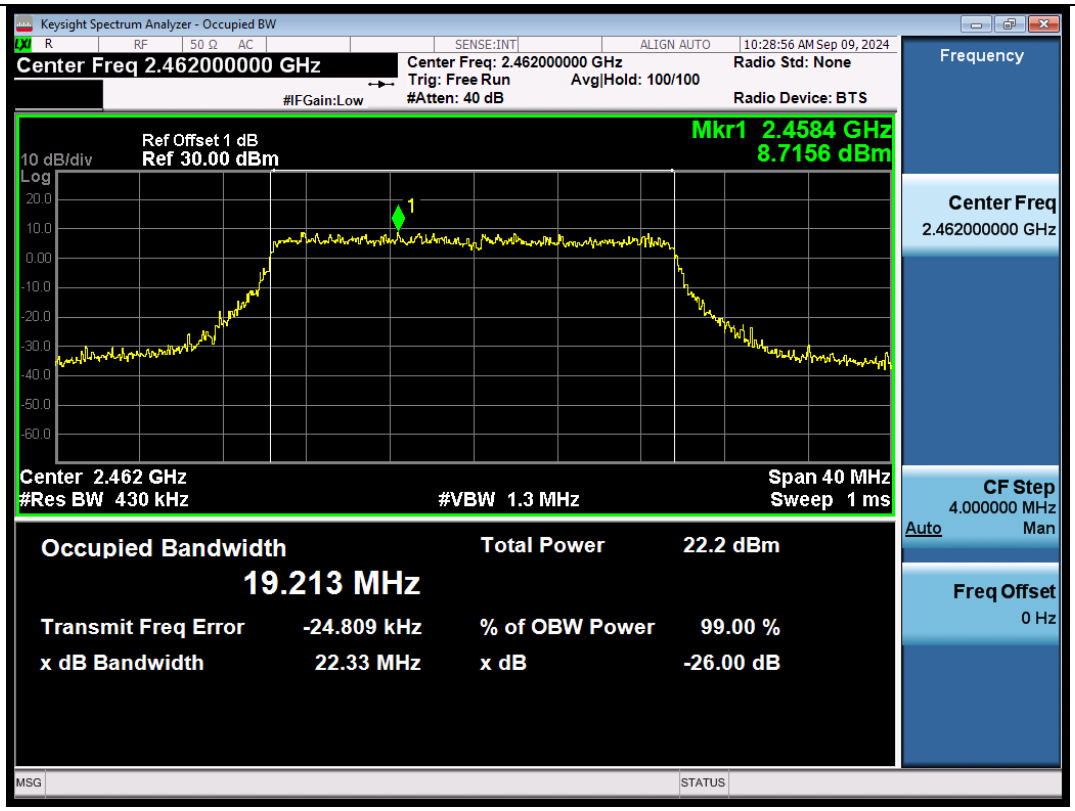
11AX40SISO-Ant1-2452



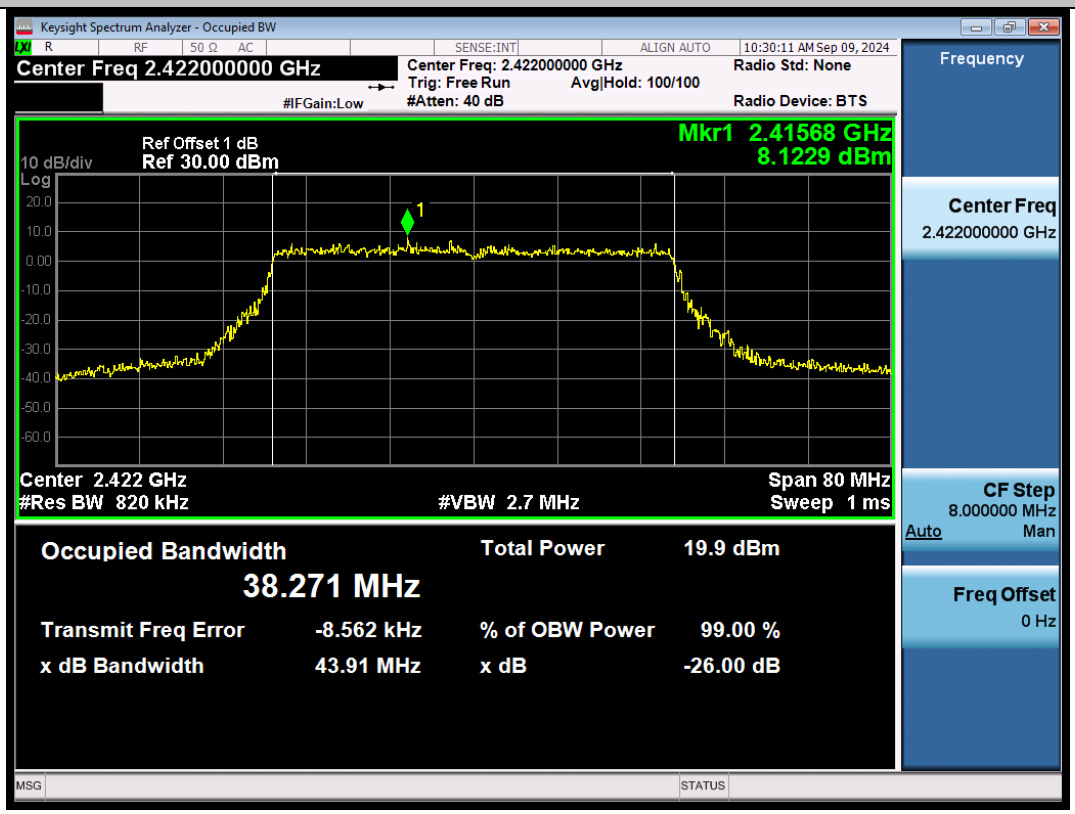
11BE20SISO-Ant1-2412



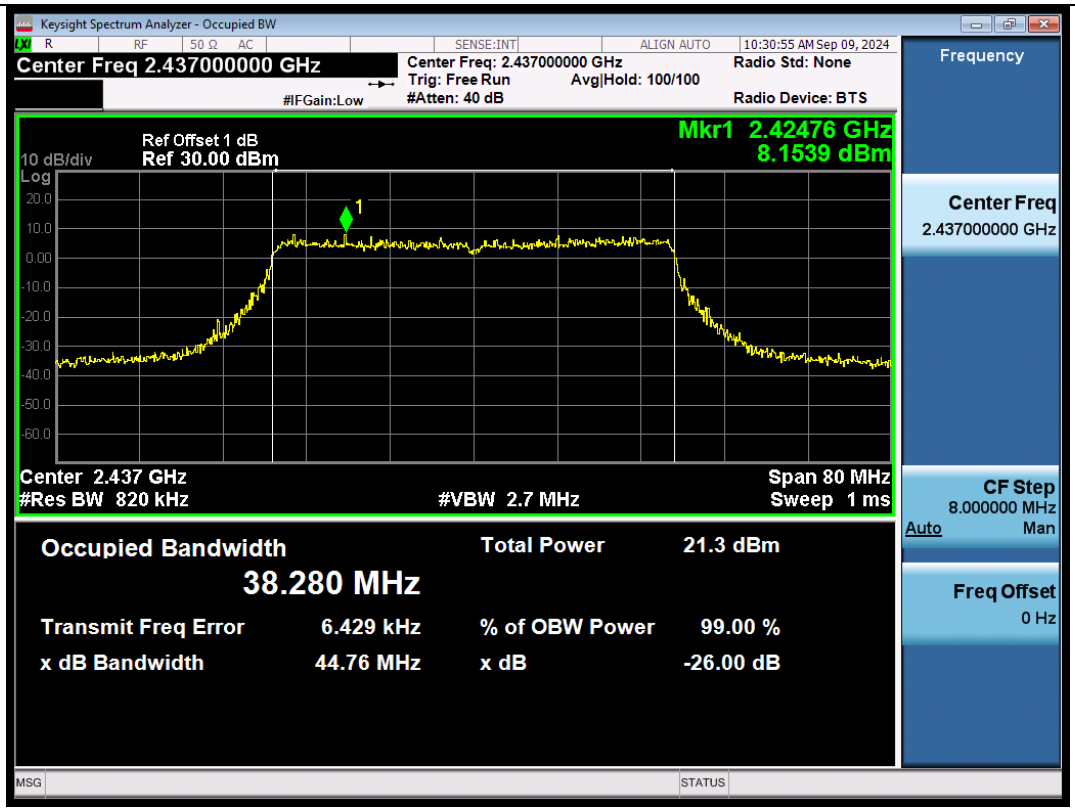
11BE20SISO-Ant1-2437



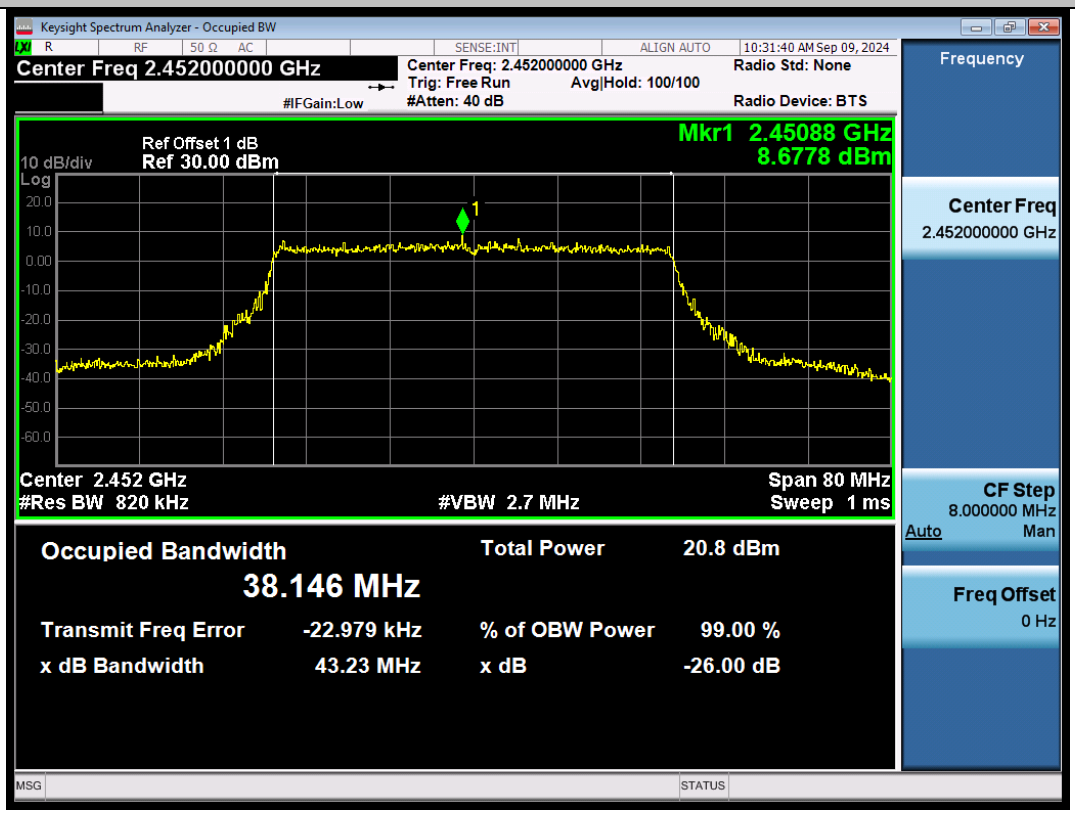
11BE20SISO-Ant1-2462



11BE40SISO-Ant1-2422



11BE40SISO-Ant1-2437



11BE40SISO-Ant1-2452

Appendix C: Maximum conducted output power

SISO:

Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)		EIRP (dBm)		Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
			ANT1	ANT2	ANT1	ANT2			
Mode 1	1	2412	16.41	16.48	20.41	20.48	≤30	≤36	Pass
	6	2437	17.50	17.28	21.50	21.28	≤30	≤36	Pass
	11	2462	16.93	16.96	20.93	20.96	≤30	≤36	Pass
Mode 2	1	2412	16.98	16.84	20.98	20.84	≤30	≤36	Pass
	6	2437	18.17	17.96	22.17	21.96	≤30	≤36	Pass
	11	2462	17.55	17.40	21.55	21.40	≤30	≤36	Pass
Mode 3	1	2412	15.77	16.01	19.77	20.01	≤30	≤36	Pass
	6	2437	16.17	16.15	20.17	20.15	≤30	≤36	Pass
	11	2462	15.40	15.57	19.40	19.57	≤30	≤36	Pass
Mode 4	3	2422	11.85	12.18	15.85	16.18	≤30	≤36	Pass
	6	2437	13.42	13.42	17.42	17.42	≤30	≤36	Pass
	9	2452	12.32	12.13	16.32	16.13	≤30	≤36	Pass
Mode 5	1	2412	15.25	15.21	19.25	19.21	≤30	≤36	Pass
	6	2437	15.36	15.18	19.36	19.18	≤30	≤36	Pass
	11	2462	15.04	15.01	19.04	19.01	≤30	≤36	Pass
Mode 6	3	2422	12.33	12.40	16.33	16.40	≤30	≤36	Pass
	6	2437	13.72	13.68	17.72	17.68	≤30	≤36	Pass
	9	2452	13.32	13.07	17.32	17.07	≤30	≤36	Pass
Mode 7	1	2412	15.40	15.22	19.40	19.22	≤30	≤36	Pass
	6	2437	15.40	15.24	19.40	19.24	≤30	≤36	Pass
	11	2462	15.11	15.05	19.11	19.05	≤30	≤36	Pass
Mode 8	3	2422	12.15	12.36	16.15	16.36	≤30	≤36	Pass
	6	2437	13.53	13.59	17.53	17.59	≤30	≤36	Pass
	9	2452	13.23	12.82	17.23	16.82	≤30	≤36	Pass

Note 1: EIRP Power = Conducted Power + Antenna gain

Note 2: The Antenna gain please refer to clause 1.2

CDD:

Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)			EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
			ANT1	ANT2	ANT1+2				
Mode 1	1	2412	16.54	16.50	19.53	23.53	≤30	≤36	Pass
	6	2437	17.51	17.19	20.36	24.36	≤30	≤36	Pass
	11	2462	16.92	17.07	20.01	24.01	≤30	≤36	Pass
Mode 2	1	2412	16.99	16.91	19.96	23.96	≤30	≤36	Pass
	6	2437	18.30	17.91	21.12	25.12	≤30	≤36	Pass
	11	2462	17.60	17.42	20.52	24.52	≤30	≤36	Pass
Mode 3	1	2412	15.82	15.97	18.91	22.91	≤30	≤36	Pass
	6	2437	16.08	16.16	19.13	23.13	≤30	≤36	Pass
	11	2462	15.33	15.50	18.43	22.43	≤30	≤36	Pass
Mode 4	3	2422	11.84	12.11	14.99	18.99	≤30	≤36	Pass
	6	2437	13.37	13.30	16.35	20.35	≤30	≤36	Pass
	9	2452	12.37	11.97	15.18	19.18	≤30	≤36	Pass
Mode 5	1	2412	15.20	15.29	18.26	22.26	≤30	≤36	Pass
	6	2437	15.32	15.26	18.30	22.30	≤30	≤36	Pass
	11	2462	14.90	15.03	17.98	21.98	≤30	≤36	Pass
Mode 6	3	2422	12.27	12.46	15.38	19.38	≤30	≤36	Pass
	6	2437	13.69	13.71	16.71	20.71	≤30	≤36	Pass
	9	2452	13.14	13.16	16.16	20.16	≤30	≤36	Pass
Mode 7	1	2412	15.22	15.29	18.27	22.27	≤30	≤36	Pass
	6	2437	15.45	15.35	18.41	22.41	≤30	≤36	Pass
	11	2462	15.03	15.03	18.04	22.04	≤30	≤36	Pass
Mode 8	3	2422	12.09	12.23	15.17	19.17	≤30	≤36	Pass
	6	2437	13.46	13.59	16.54	20.54	≤30	≤36	Pass
	9	2452	12.93	12.89	15.92	19.92	≤30	≤36	Pass

Note 1: EIRP Power = Conducted Power + Antenna gain

Note 2: The Antenna gain please refer to clause 1.2

Beamforming:

Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)			EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
			ANT1	ANT2	ANT1+2				
Mode 3	1	2412	12.79	12.81	15.81	22.82	≤28.99	≤36	Pass
	6	2437	12.82	13.06	15.95	22.96	≤28.99	≤36	Pass
	11	2462	12.32	12.38	15.36	22.37	≤28.99	≤36	Pass
Mode 4	3	2422	8.82	8.91	11.88	18.89	≤28.99	≤36	Pass
	6	2437	10.07	10.19	13.14	20.15	≤28.99	≤36	Pass
	9	2452	9.21	8.86	12.05	19.06	≤28.99	≤36	Pass
Mode 5	1	2412	11.94	12.02	14.99	22.00	≤28.99	≤36	Pass
	6	2437	12.19	12.21	15.21	22.22	≤28.99	≤36	Pass
	11	2462	11.96	11.89	14.94	21.95	≤28.99	≤36	Pass
Mode 6	3	2422	9.16	9.32	12.25	19.26	≤28.99	≤36	Pass
	6	2437	10.52	10.59	13.57	20.58	≤28.99	≤36	Pass
	9	2452	10.12	10.06	13.10	20.11	≤28.99	≤36	Pass
Mode 7	1	2412	12.09	12.21	15.16	22.17	≤28.99	≤36	Pass
	6	2437	12.12	12.38	15.26	22.27	≤28.99	≤36	Pass
	11	2462	12.04	11.91	14.99	22.00	≤28.99	≤36	Pass
Mode 8	3	2422	9.01	9.12	12.08	19.09	≤28.99	≤36	Pass
	6	2437	10.21	10.38	13.31	20.32	≤28.99	≤36	Pass
	9	2452	9.92	9.79	12.87	19.88	≤28.99	≤36	Pass

Note 1: Conducted Power Limit = 30dBm - (7.01-6.0)dBi = 28.99 dBm
Note 2: EIRP Power = Conducted Power + Antenna gain
Note 3: The Antenna gain please refer to clause 1.2

Appendix D: Maximum power spectral density

SISO:

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.91	≤8.00	PASS
11B	Ant1	2437	-10.62	≤8.00	PASS
11B	Ant1	2462	-11.26	≤8.00	PASS
11G	Ant1	2412	-12.18	≤8.00	PASS
11G	Ant1	2437	-11.73	≤8.00	PASS
11G	Ant1	2462	-12.31	≤8.00	PASS
11N20SISO	Ant1	2412	-14.98	≤8.00	PASS
11N20SISO	Ant1	2437	-14.07	≤8.00	PASS
11N20SISO	Ant1	2462	-14.92	≤8.00	PASS
11N40SISO	Ant1	2422	-16.85	≤8.00	PASS
11N40SISO	Ant1	2437	-17.17	≤8.00	PASS
11N40SISO	Ant1	2452	-16.45	≤8.00	PASS
11AX20SISO	Ant1	2412	-20.12	≤8.00	PASS
11AX20SISO	Ant1	2437	-19.68	≤8.00	PASS
11AX20SISO	Ant1	2462	-20.05	≤8.00	PASS
11AX40SISO	Ant1	2422	-26.03	≤8.00	PASS
11AX40SISO	Ant1	2437	-24.72	≤8.00	PASS
11AX40SISO	Ant1	2452	-25.14	≤8.00	PASS
11BE20SISO	Ant1	2412	-19.53	≤8.00	PASS
11BE20SISO	Ant1	2437	-19.70	≤8.00	PASS
11BE20SISO	Ant1	2462	-19.76	≤8.00	PASS
11BE40SISO	Ant1	2422	-26.19	≤8.00	PASS
11BE40SISO	Ant1	2437	-25.74	≤8.00	PASS
11BE40SISO	Ant1	2452	-26.21	≤8.00	PASS

Note1: Both of two chains are tested and only the worst chain of the PSD was showed.

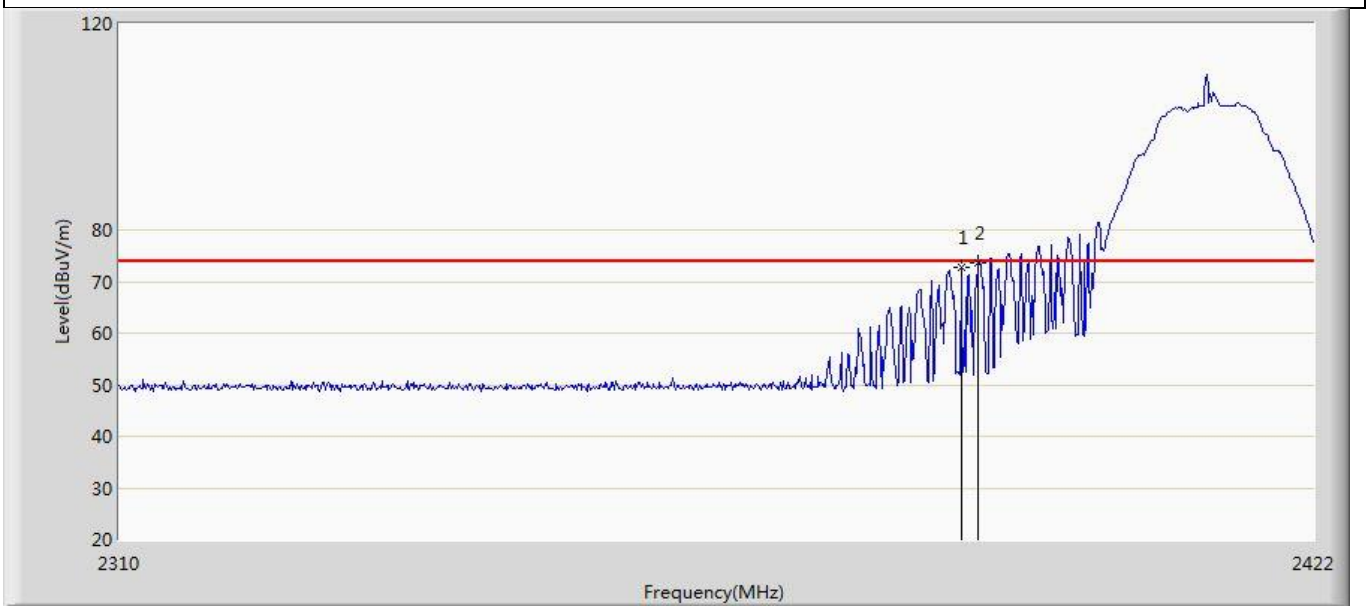
CDD:

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B CDD	Ant1+2	2412	-8.90	≤6.99	PASS
11B CDD	Ant1+2	2437	-7.61	≤6.99	PASS
11B CDD	Ant1+2	2462	-8.25	≤6.99	PASS
11G CDD	Ant1+2	2412	-9.17	≤6.99	PASS
11G CDD	Ant1+2	2437	-8.72	≤6.99	PASS
11G CDD	Ant1+2	2462	-9.30	≤6.99	PASS
11N20 CDD	Ant1+2	2412	-11.97	≤6.99	PASS
11N20 CDD	Ant1+2	2437	-11.06	≤6.99	PASS
11N20 CDD	Ant1+2	2462	-11.91	≤6.99	PASS
11N40 CDD	Ant1+2	2422	-13.84	≤6.99	PASS
11N40 CDD	Ant1+2	2437	-14.16	≤6.99	PASS
11N40 CDD	Ant1+2	2452	-13.44	≤6.99	PASS
11AX20 CDD	Ant1+2	2412	-17.11	≤6.99	PASS
11AX20 CDD	Ant1+2	2437	-16.67	≤6.99	PASS
11AX20 CDD	Ant1+2	2462	-17.04	≤6.99	PASS
11AX40 CDD	Ant1+2	2422	-23.02	≤6.99	PASS
11AX40 CDD	Ant1+2	2437	-21.71	≤6.99	PASS

11AX40 CDD	Ant1+2	2452	-25.14	≤6.99	PASS
11BE20 CDD	Ant1+2	2412	-16.52	≤6.99	PASS
11BE20 CDD	Ant1+2	2437	-16.69	≤6.99	PASS
11BE20 CDD	Ant1+2	2462	-16.75	≤6.99	PASS
11BE40 CDD	Ant1+2	2422	-23.18	≤6.99	PASS
11BE40 CDD	Ant1+2	2437	-22.73	≤6.99	PASS
11BE40 CDD	Ant1+2	2452	-23.20	≤6.99	PASS
Note 1: PSD Limit = 8dBm/3kHz - (Antenna Gain - 6). Note 2: The Antenna gain please refer to clause 1.2.					
Beamforming :					
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11N20 BF	Ant1+2	2412	-11.93	≤3.98	PASS
11N20 BF	Ant1+2	2437	-11.01	≤3.98	PASS
11N20 BF	Ant1+2	2462	-11.79	≤3.98	PASS
11N40 BF	Ant1+2	2422	-13.69	≤3.98	PASS
11N40 BF	Ant1+2	2437	-14.12	≤3.98	PASS
11N40 BF	Ant1+2	2452	-13.29	≤3.98	PASS
11AX20 BF	Ant1+2	2412	-17.01	≤3.98	PASS
11AX20 BF	Ant1+2	2437	-16.59	≤3.98	PASS
11AX20 BF	Ant1+2	2462	-17.01	≤3.98	PASS
11AX40 BF	Ant1+2	2422	-23.06	≤3.98	PASS
11AX40 BF	Ant1+2	2437	-21.55	≤3.98	PASS
11AX40 BF	Ant1+2	2452	-25.09	≤3.98	PASS
11BE20 BF	Ant1+2	2412	-16.42	≤3.98	PASS
11BE20 BF	Ant1+2	2437	-16.63	≤3.98	PASS
11BE20 BF	Ant1+2	2462	-16.71	≤3.98	PASS
11BE40 BF	Ant1+2	2422	-23.12	≤3.98	PASS
11BE40 BF	Ant1+2	2437	-22.66	≤3.98	PASS
11BE40 BF	Ant1+2	2452	-23.16	≤3.98	PASS
Note 1: PSD Limit = 8dBm/3kHz - (Antenna Gain - 6). Note 2: The Antenna gain please refer to clause 1.2.					

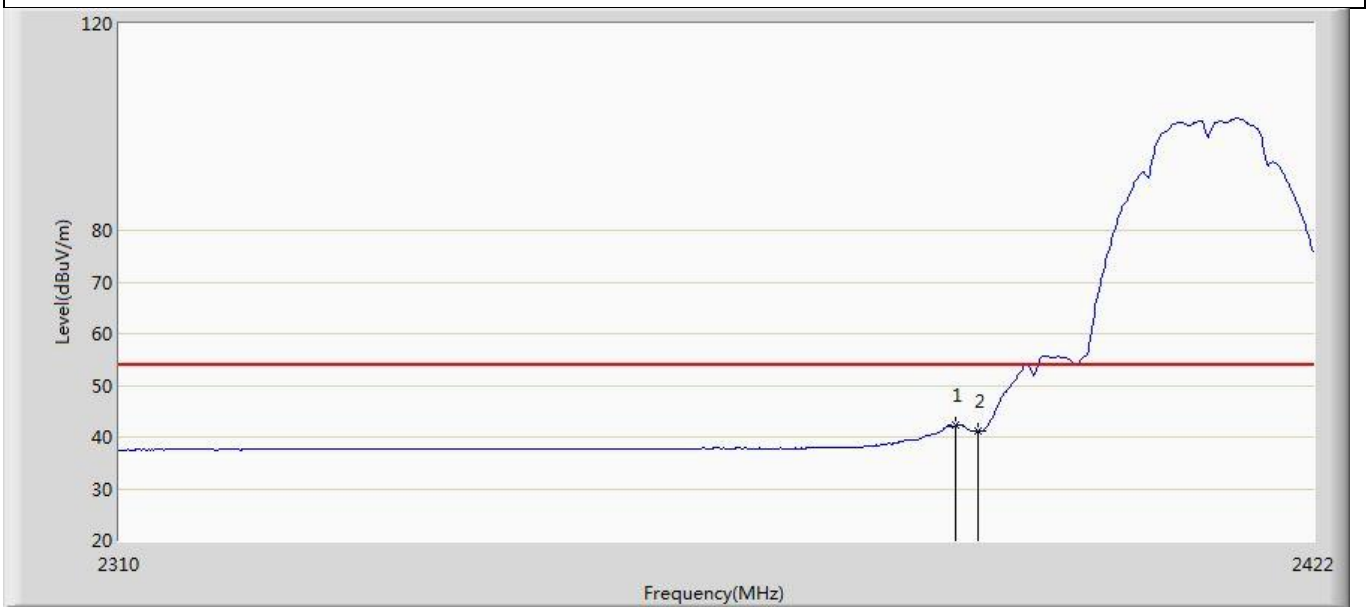
Appendix E: Band edge measurements

Profile: 2480675R	Page No.: 1
Engineer: Yuliu	
Site: AC5	Time: 2024/09/02 - 11:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 1：Transmit at 2412MHz by 802.11b	



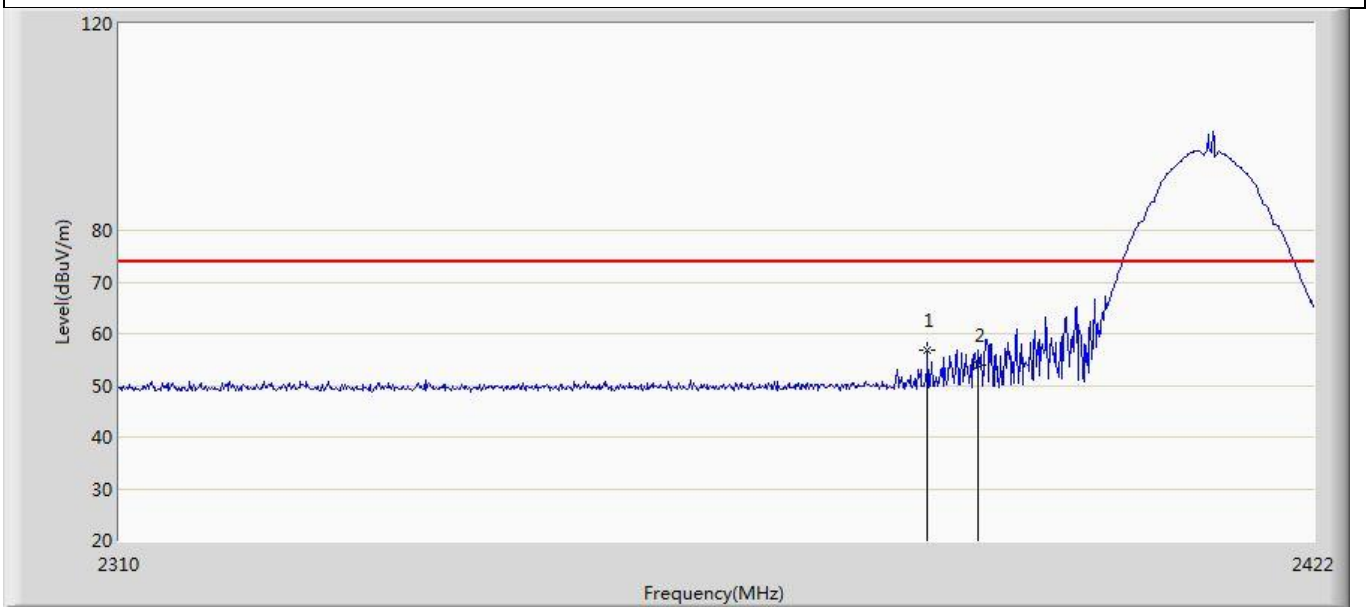
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2388.400	72.677	38.533	-1.323	74.000	34.144	PK
2	*	2390.000	73.528	39.377	-0.472	74.000	34.151	PK

Profile: 2480675R	Page No.: 2
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 19:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 1：Transmit at 2412MHz by 802.11b	



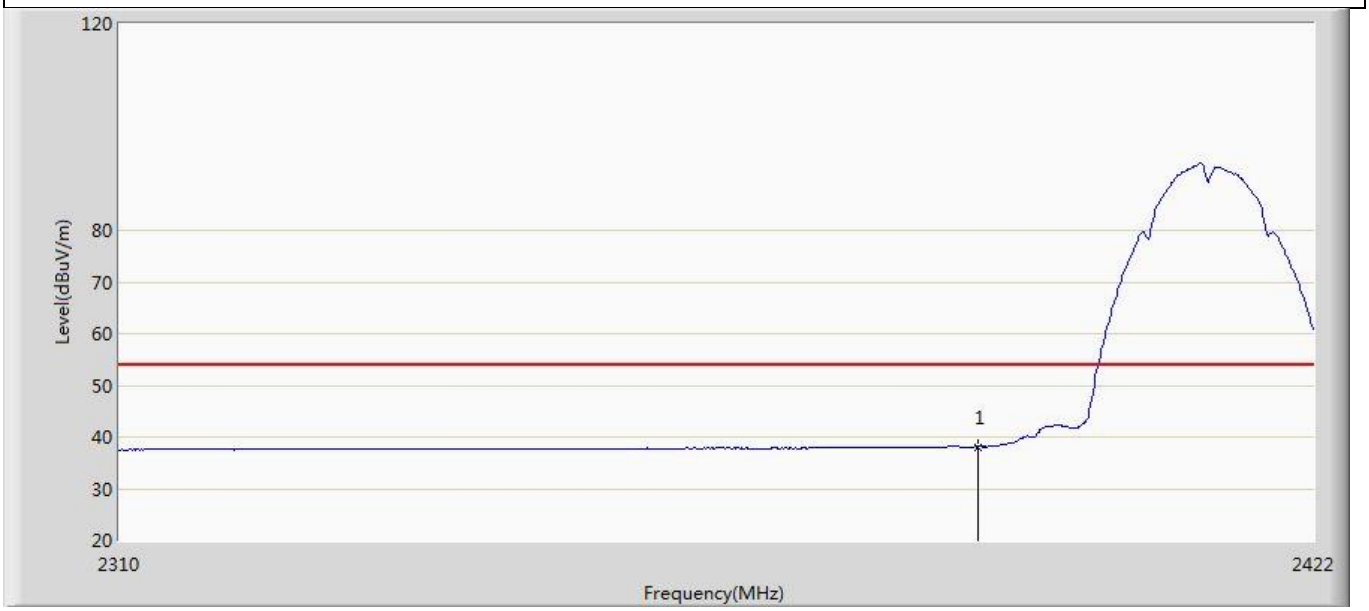
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2387.952	42.232	8.090	-11.768	54.000	34.142	AV
2		2390.000	41.103	6.952	-12.897	54.000	34.151	AV

Profile: 2480675R	Page No.: 3
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 19:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 1：Transmit at 2412MHz by 802.11b	



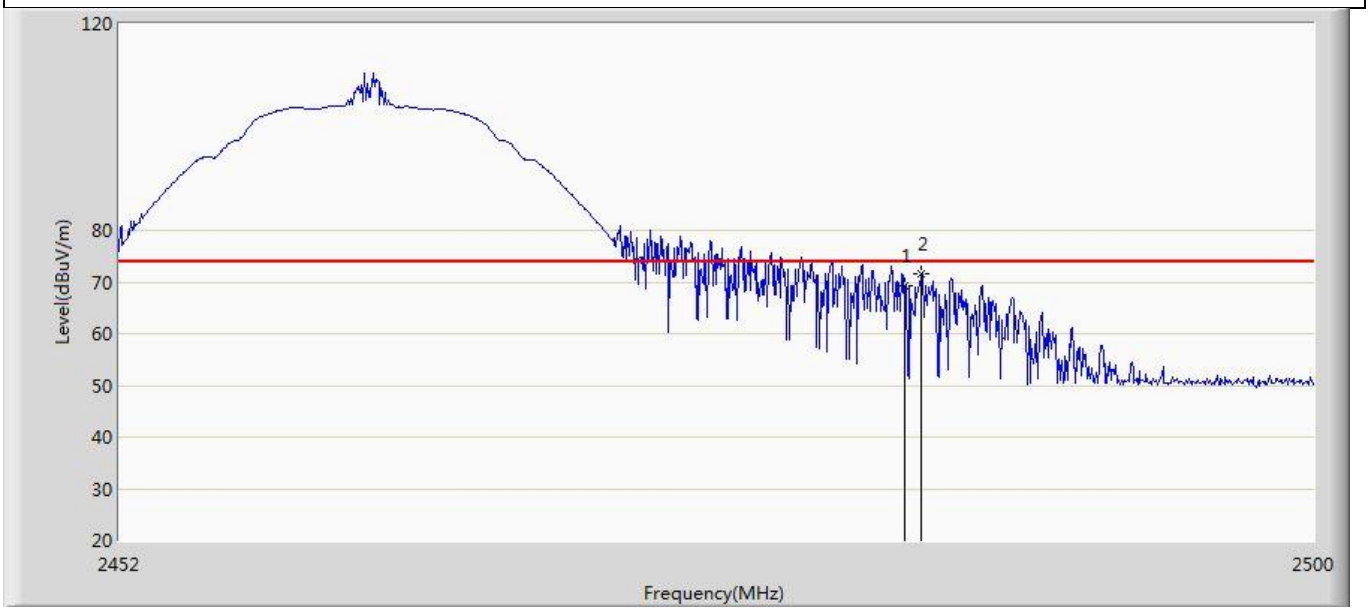
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2385.264	56.832	22.702	-17.168	74.000	34.131	PK
2		2390.000	53.879	19.728	-20.121	74.000	34.151	PK

Profile: 2480675R	Page No.: 4
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 19:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 1：Transmit at 2412MHz by 802.11b	



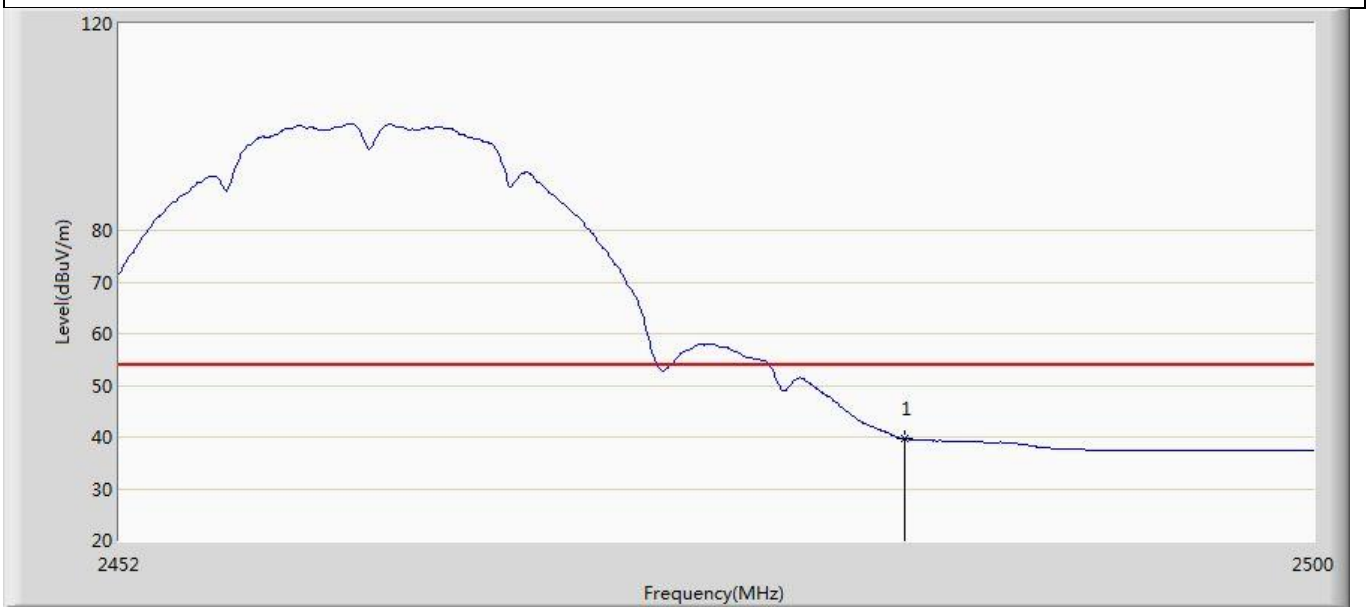
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	38.099	3.948	-15.901	54.000	34.151	AV

Profile: 2480675R	Page No.: 5
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 19:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 1：Transmit at 2462MHz by 802.11b	



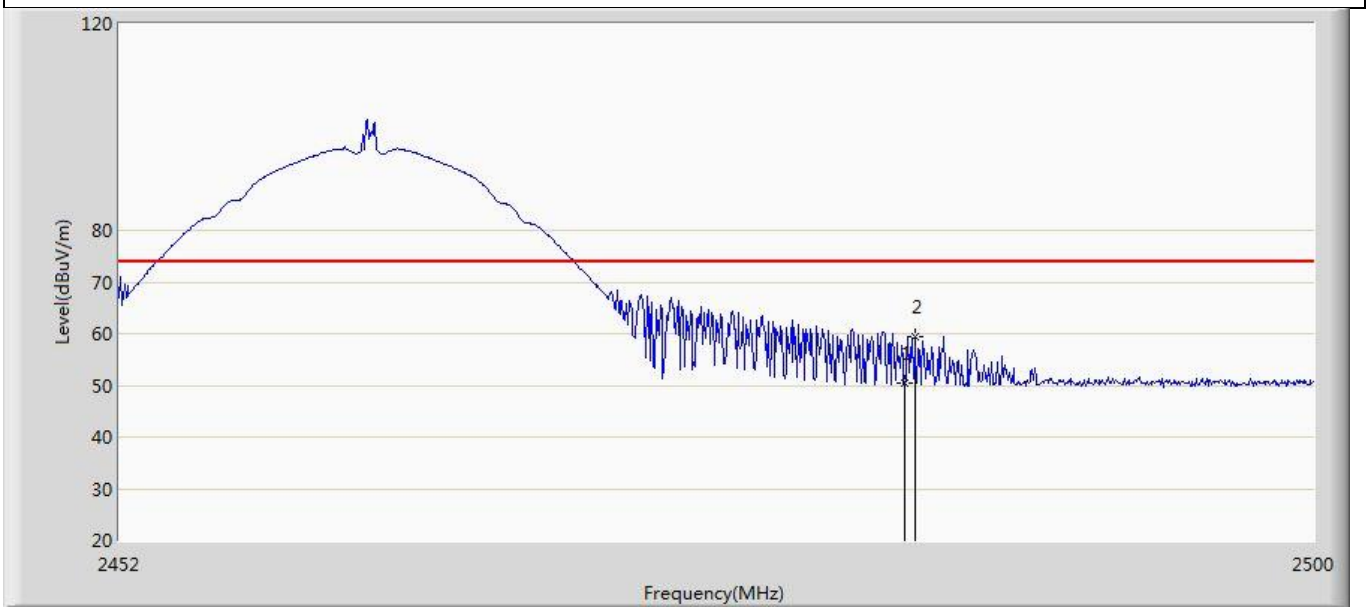
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	69.221	34.765	-4.779	74.000	34.456	PK
2	*	2484.160	71.738	37.275	-2.262	74.000	34.463	PK

Profile: 2480675R	Page No.: 6
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 19:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 1：Transmit at 2462MHz by 802.11b	



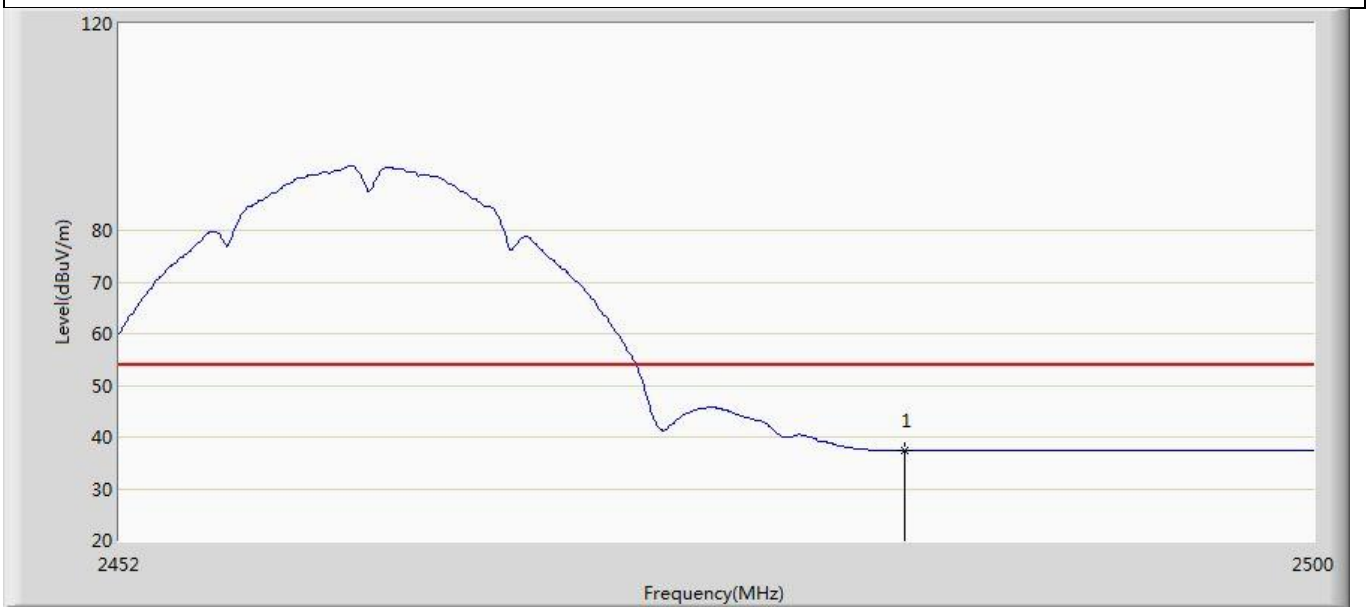
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	39.676	5.220	-14.324	54.000	34.456	AV

Profile: 2480675R	Page No.: 7
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 19:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 1：Transmit at 2462MHz by 802.11b	



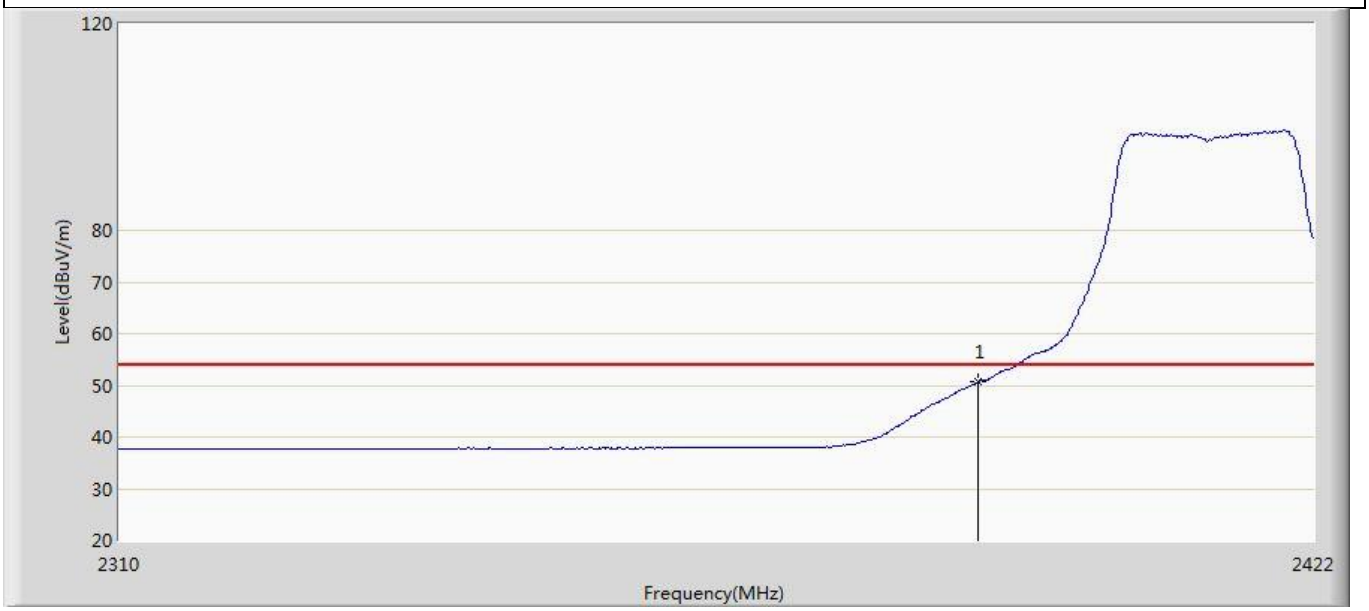
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	50.349	15.893	-23.651	74.000	34.456	PK
2	*	2483.872	59.403	24.943	-14.597	74.000	34.459	PK

Profile: 2480675R	Page No.: 8
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 19:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 1：Transmit at 2462MHz by 802.11b	



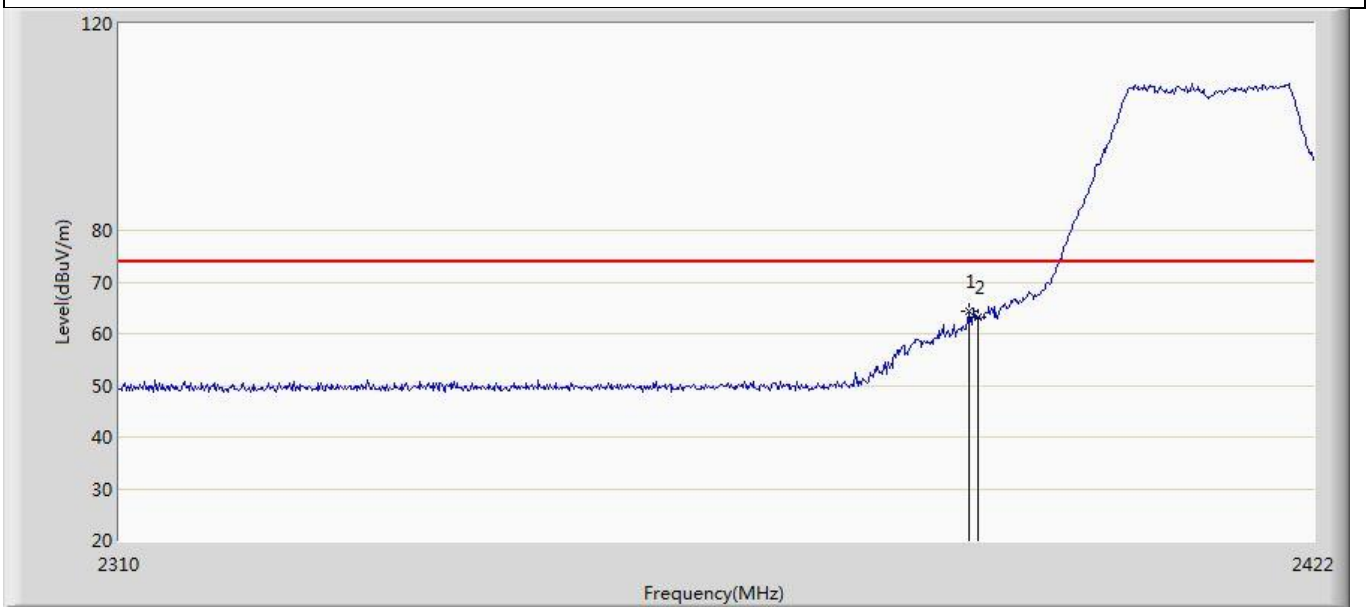
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	37.329	2.873	-16.671	54.000	34.456	AV

Profile: 2480675R	Page No.: 9
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 19:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 2：Transmit at 2412MHz by 802.11g	



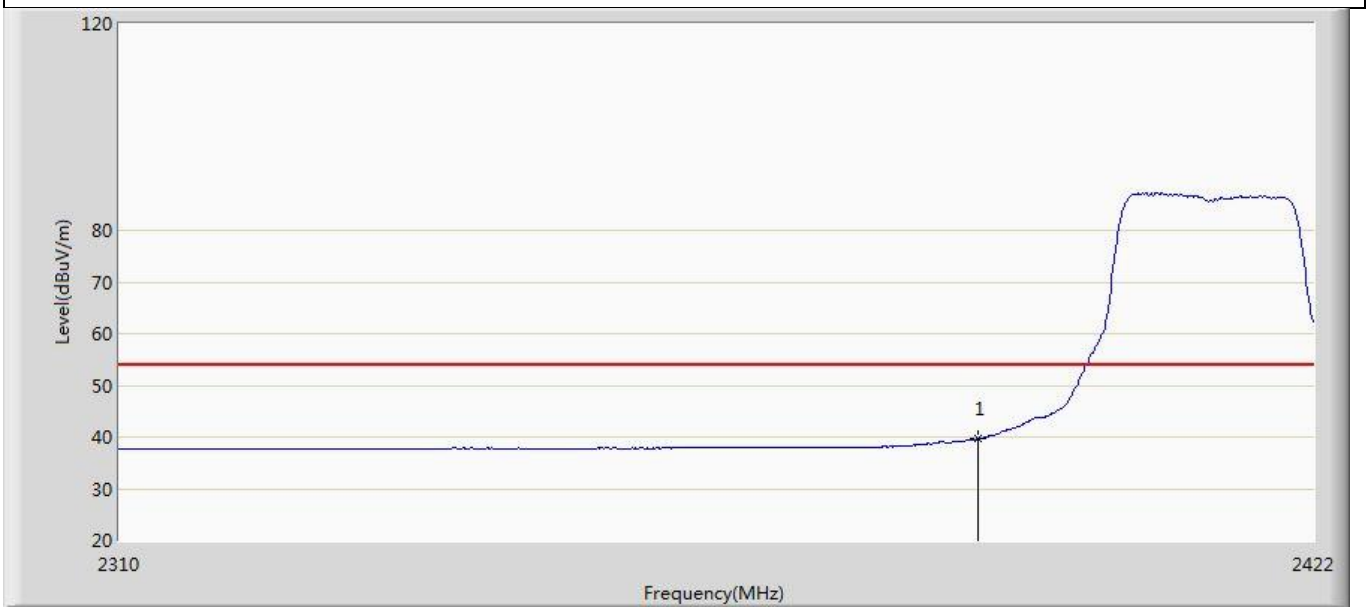
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	50.594	16.443	-3.406	54.000	34.151	AV

Profile: 2480675R	Page No.: 10
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 19:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 2：Transmit at 2412MHz by 802.11g	



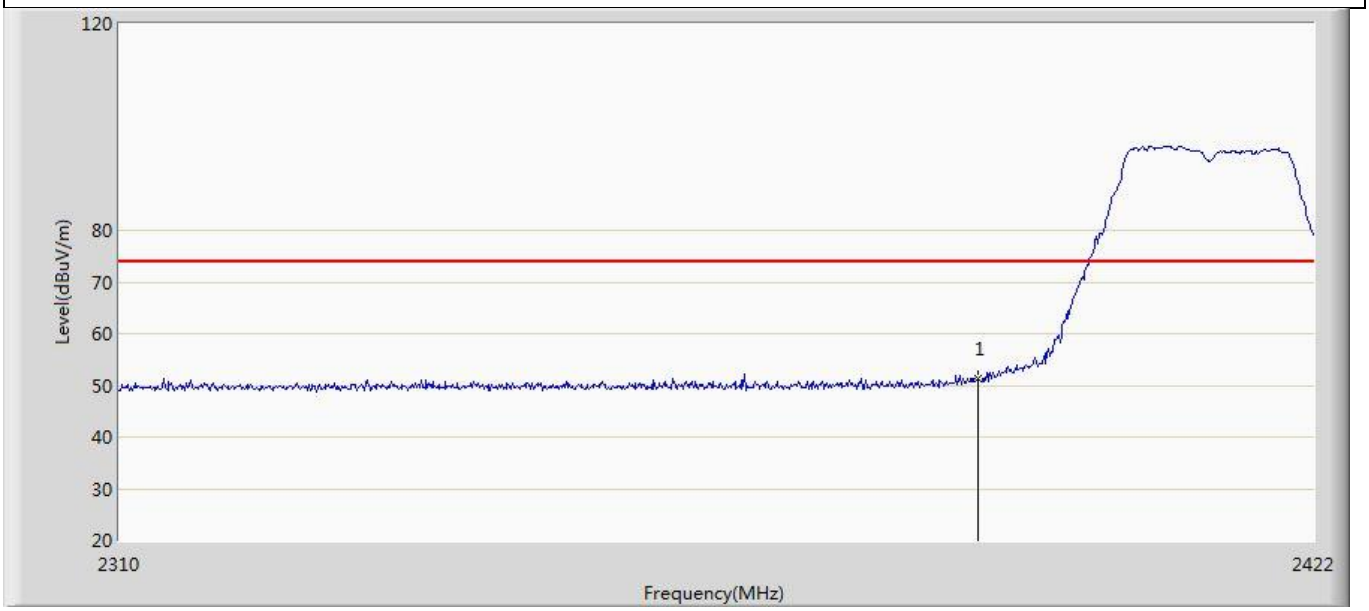
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2389.184	64.327	30.180	-9.673	74.000	34.147	PK
2		2390.000	63.153	29.002	-10.847	74.000	34.151	PK

Profile: 2480675R	Page No.: 11
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 19:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 2：Transmit at 2412MHz by 802.11g	



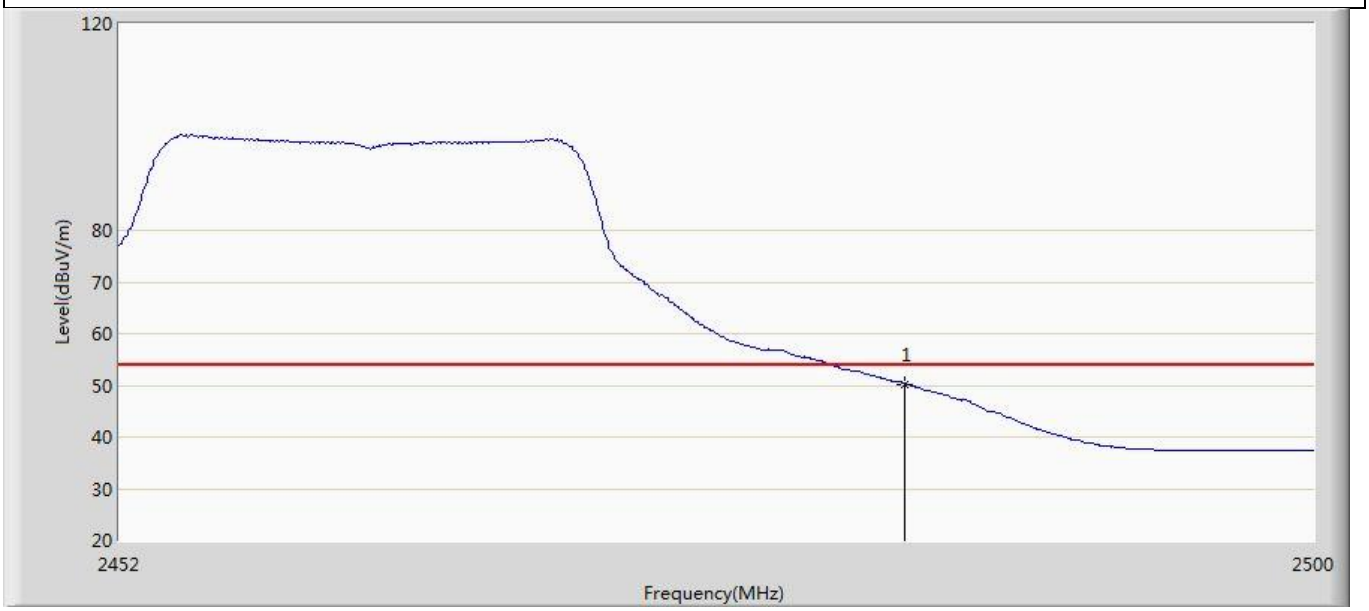
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	39.639	5.488	-14.361	54.000	34.151	AV

Profile: 2480675R	Page No.: 12
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 19:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 2：Transmit at 2412MHz by 802.11g	



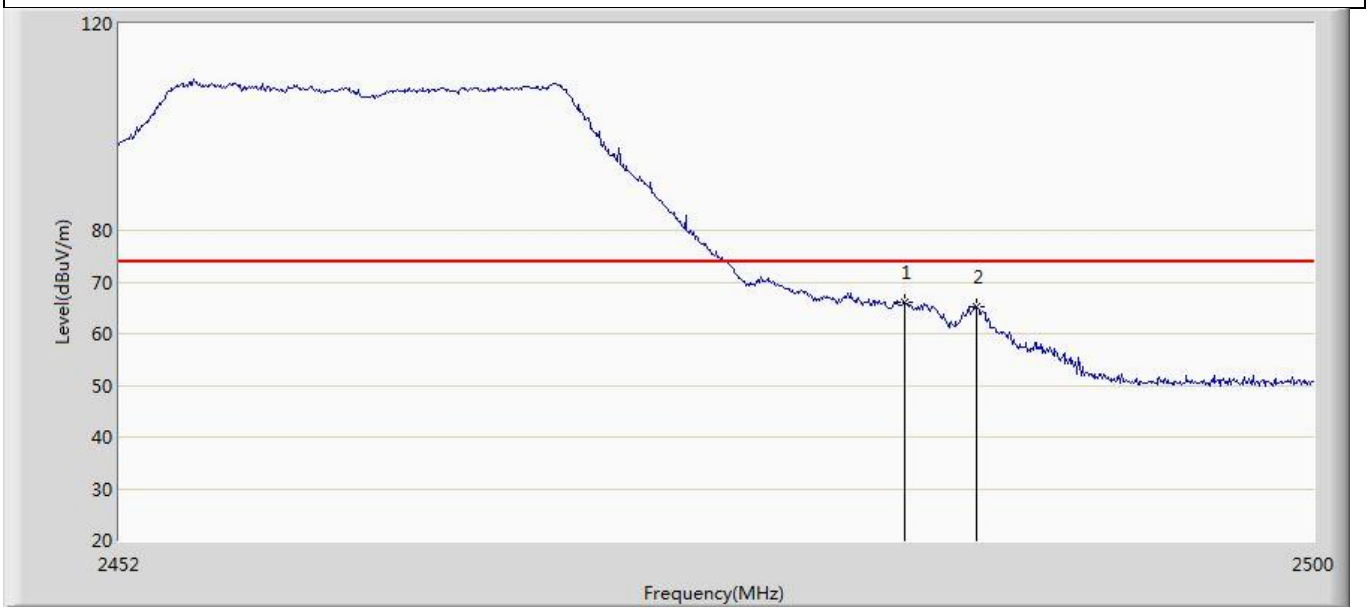
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	51.197	17.046	-22.803	74.000	34.151	PK

Profile: 2480675R	Page No.: 13
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 19:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 2：Transmit at 2462MHz by 802.11g	



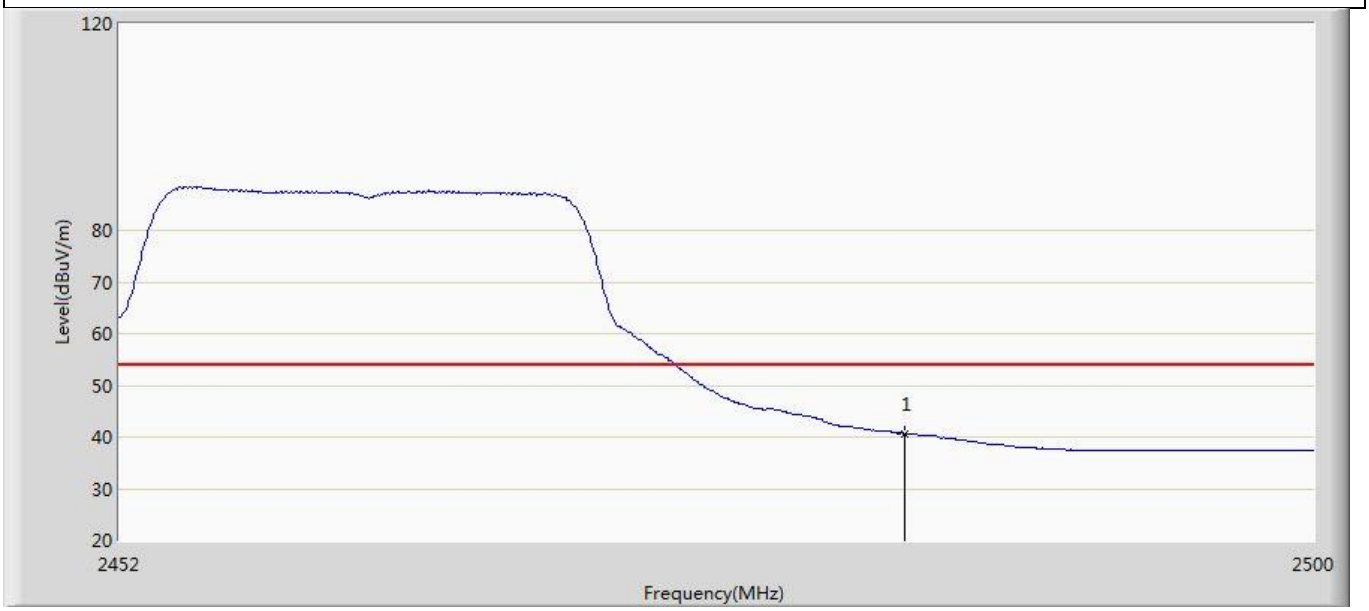
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	50.268	15.812	-3.732	54.000	34.456	AV

Profile: 2480675R	Page No.: 14
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 19:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 2：Transmit at 2462MHz by 802.11g	



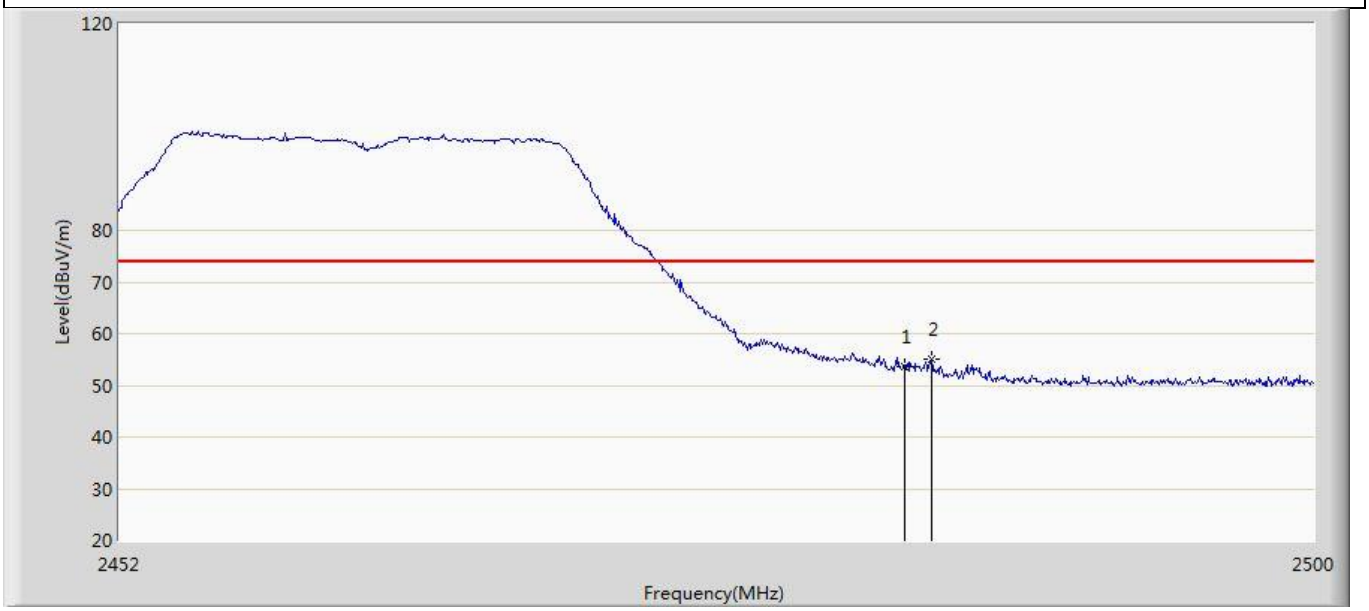
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	65.970	31.514	-8.030	74.000	34.456	PK
2		2486.368	65.240	30.753	-8.760	74.000	34.487	PK

Profile: 2480675R	Page No.: 15
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 19:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 2：Transmit at 2462MHz by 802.11g	



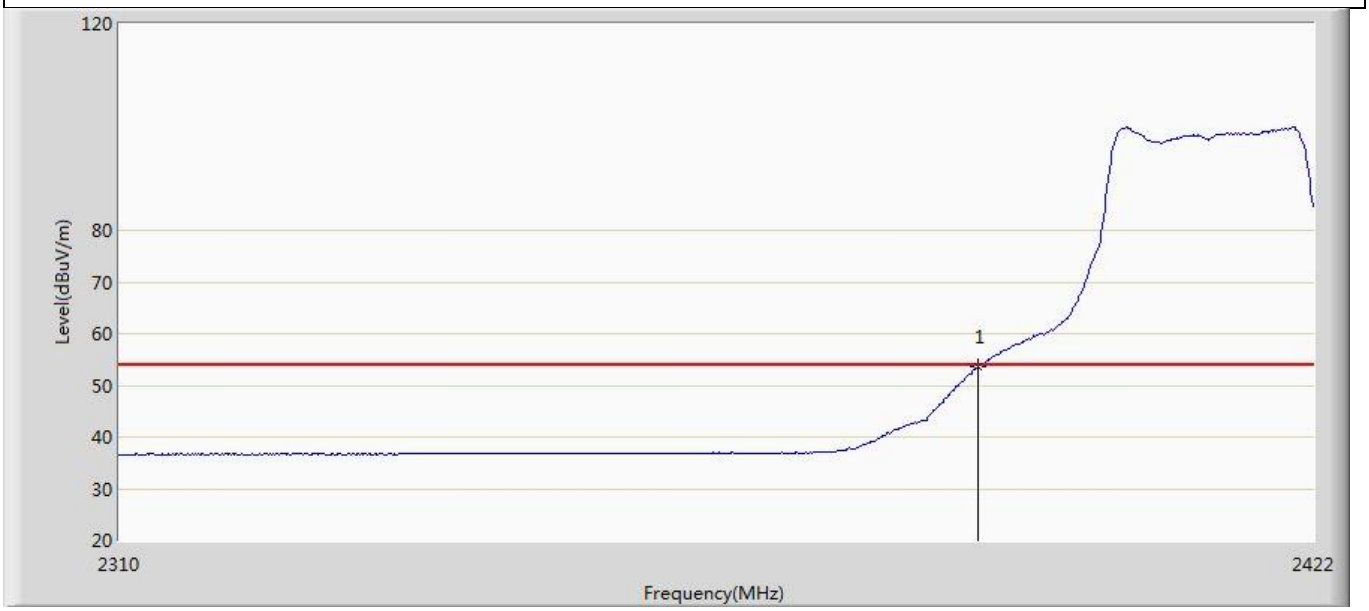
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	40.657	6.201	-13.343	54.000	34.456	AV

Profile: 2480675R	Page No.: 16
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 19:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 2：Transmit at 2462MHz by 802.11g	



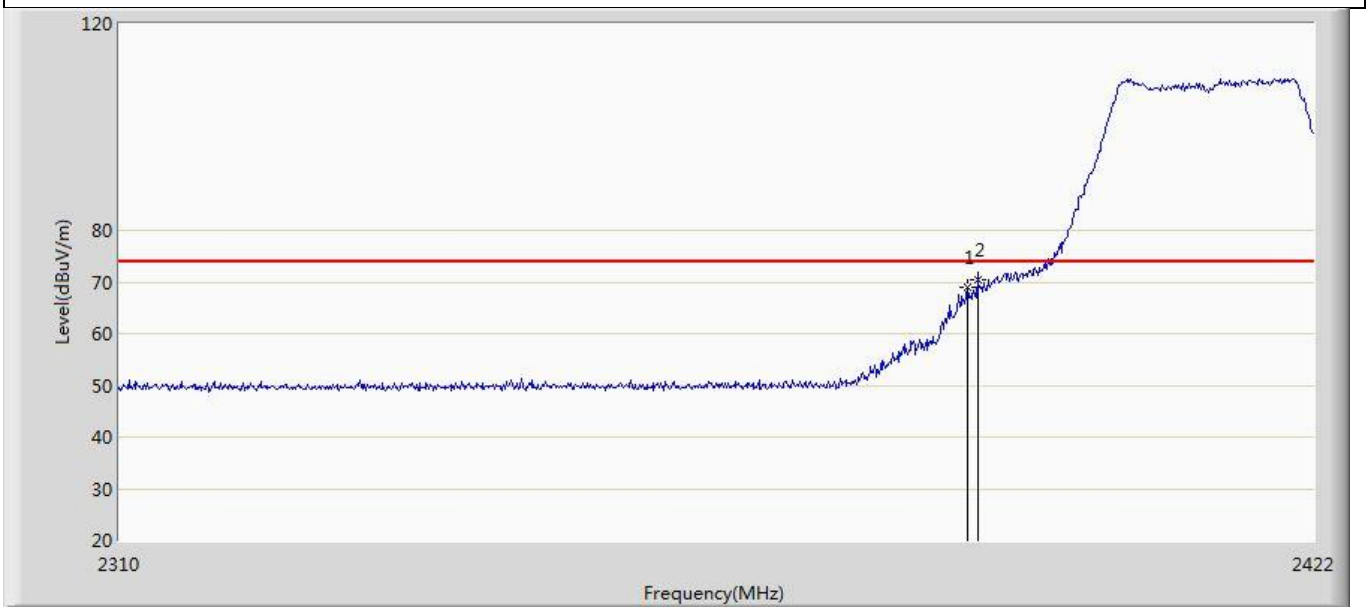
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	53.743	19.287	-20.257	74.000	34.456	PK
2	*	2484.544	55.123	20.656	-18.877	74.000	34.467	PK

Profile: 2480675R	Page No.: 17
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 19:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 3：Transmit at 2412MHz by 802.11n（20MHz)	



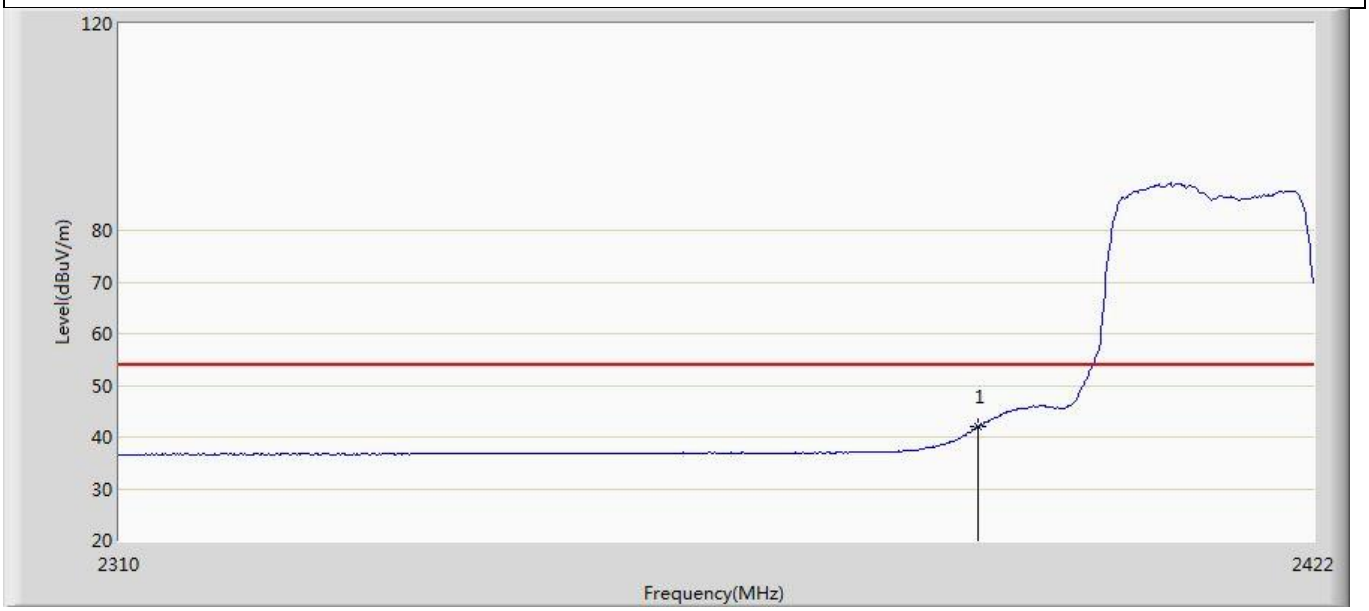
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	53.541	19.390	-0.459	54.000	34.151	AV

Profile: 2480675R	Page No.: 18
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 20:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 3：Transmit at 2412MHz by 802.11n（20MHz)	



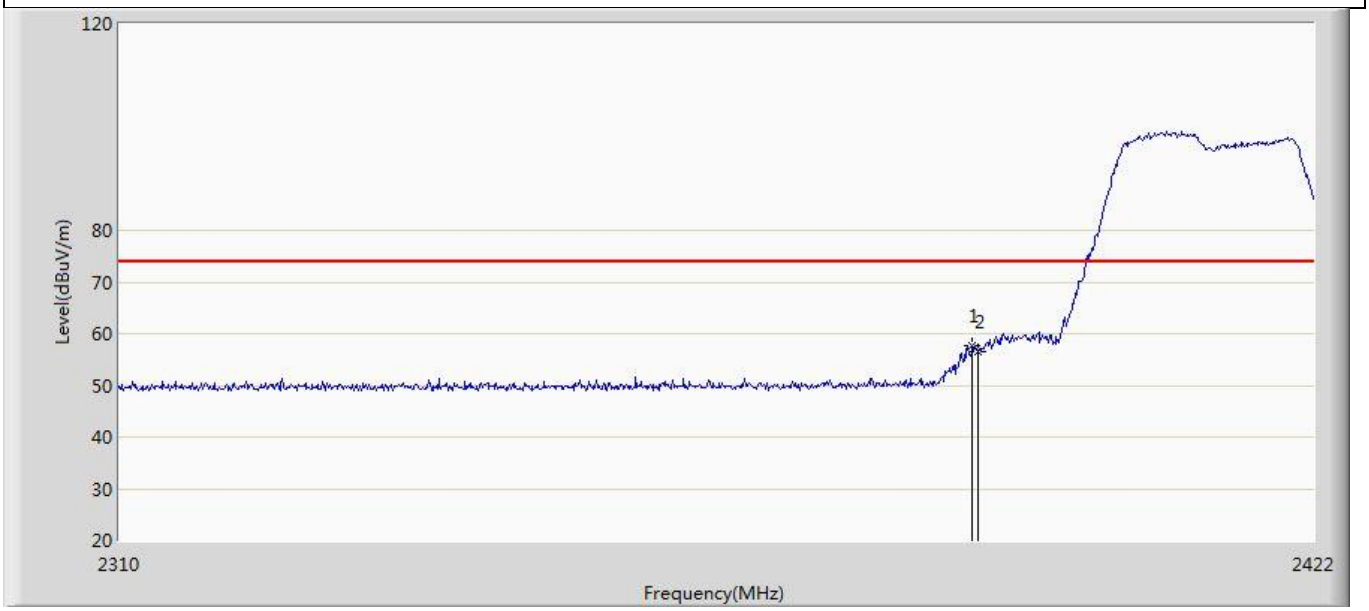
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2389.072	69.093	34.946	-4.907	74.000	34.147	PK
2	*	2390.000	70.406	36.255	-3.594	74.000	34.151	PK

Profile: 2480675R	Page No.: 19
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 20:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 3：Transmit at 2412MHz by 802.11n（20MHz)	



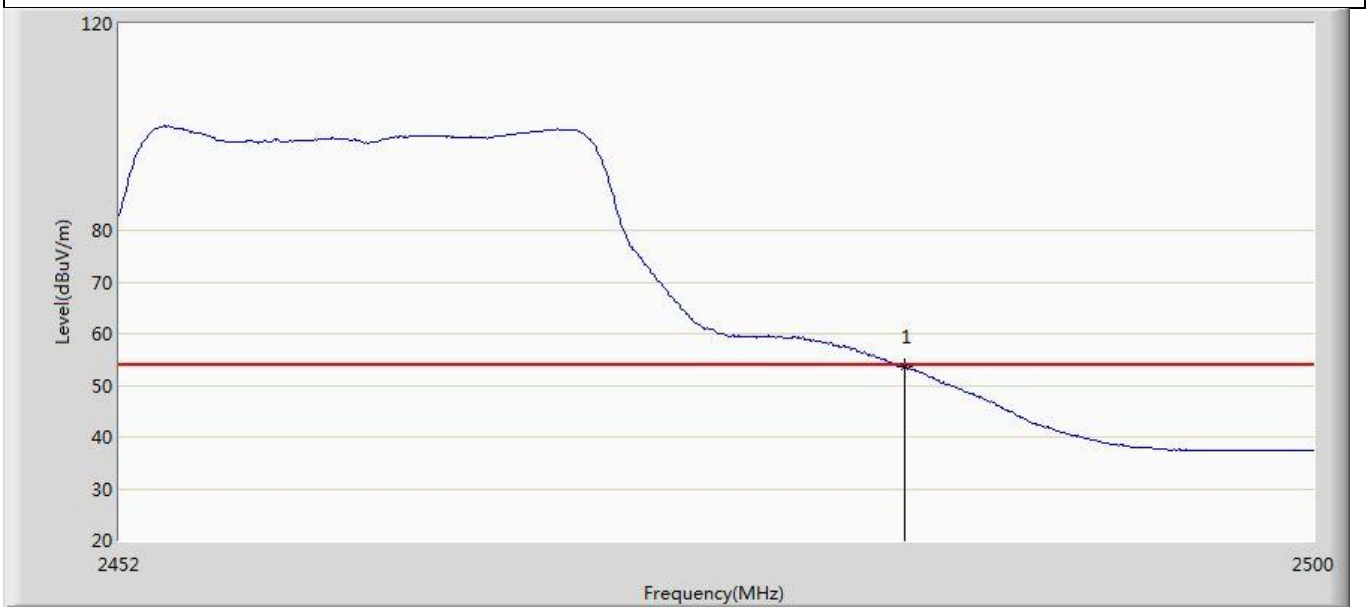
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	42.057	7.906	-11.943	54.000	34.151	AV

Profile: 2480675R	Page No.: 20
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 20:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 3：Transmit at 2412MHz by 802.11n（20MHz)	



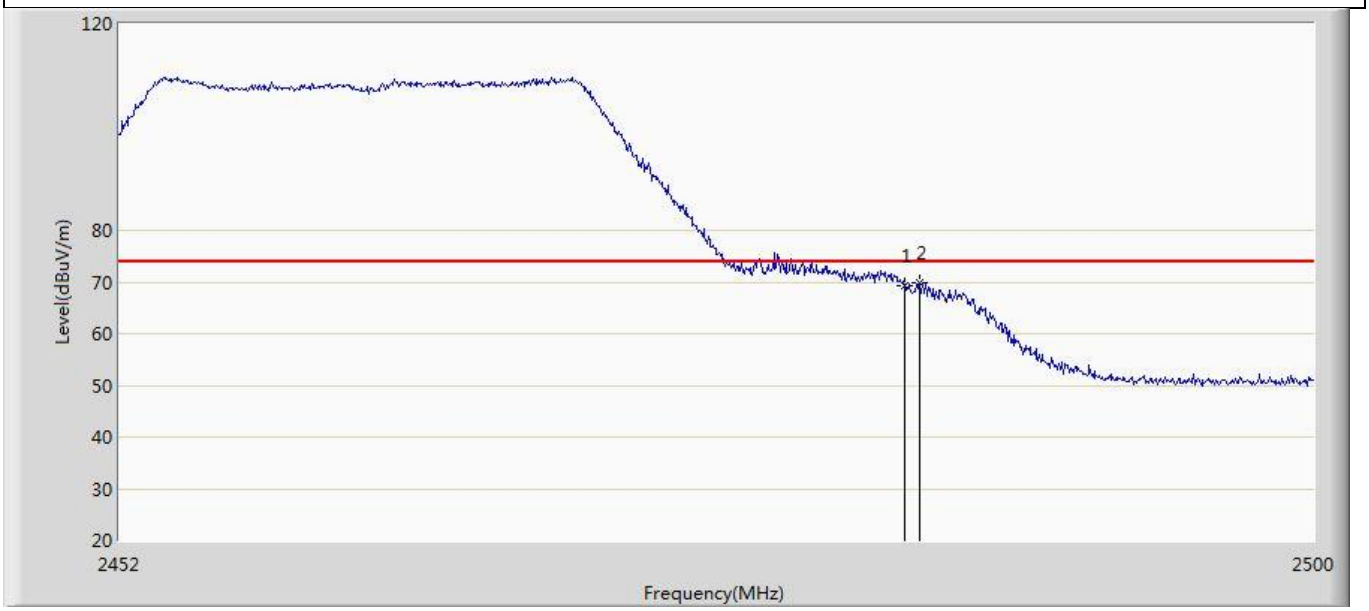
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2389.520	57.691	23.542	-16.309	74.000	34.148	PK
2		2390.000	56.457	22.306	-17.543	74.000	34.151	PK

Profile: 2480675R	Page No.: 21
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 20:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 3：Transmit at 2462MHz by 802.11n（20MHz)	



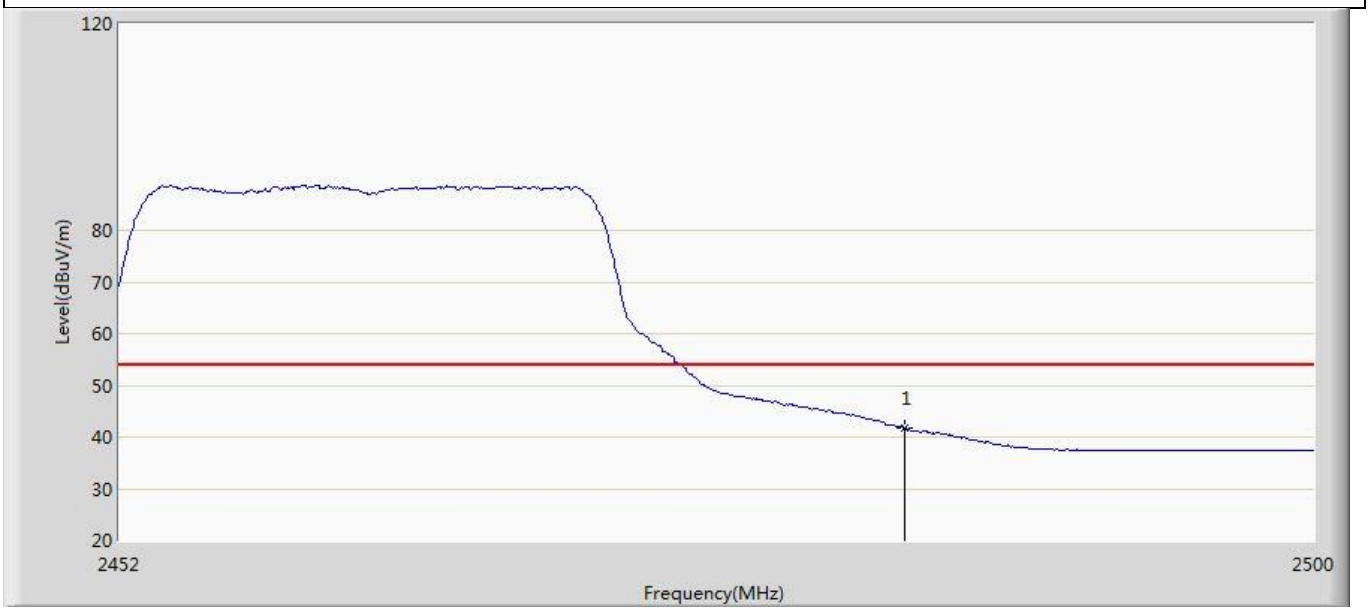
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	53.559	19.103	-0.441	54.000	34.456	AV

Profile: 2480675R	Page No.: 22
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 20:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 3：Transmit at 2462MHz by 802.11n（20MHz)	



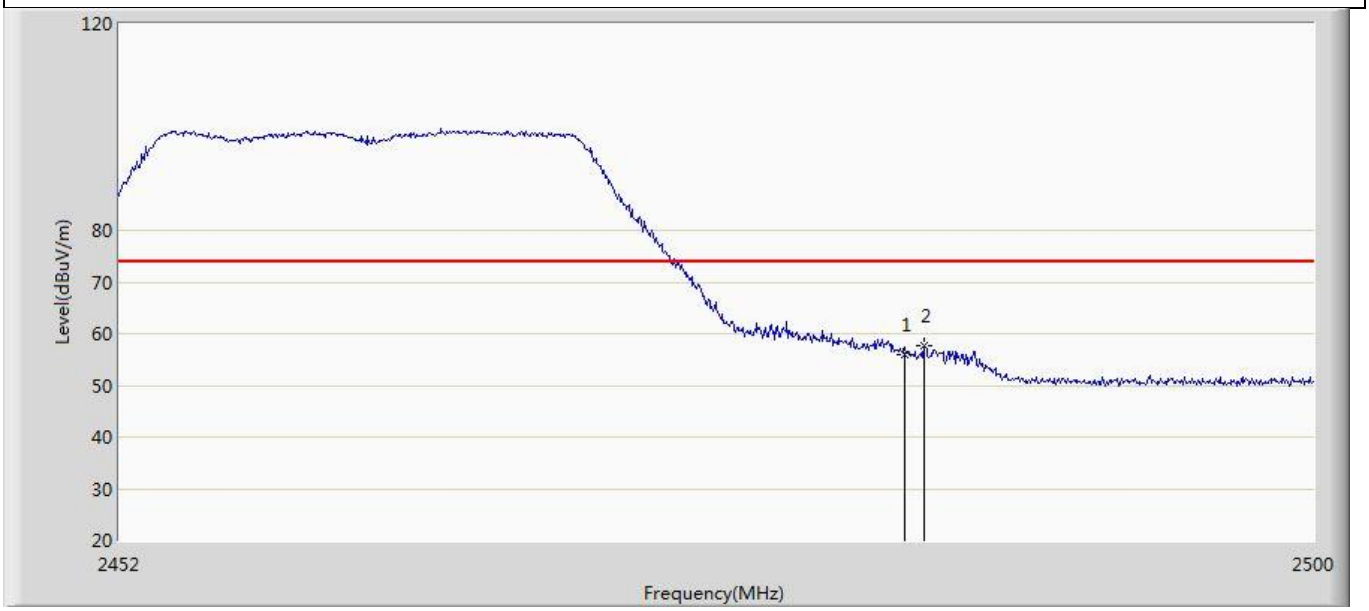
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	69.330	34.874	-4.670	74.000	34.456	PK
2	*	2484.064	69.993	35.531	-4.007	74.000	34.462	PK

Profile: 2480675R	Page No.: 23
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 20:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 3：Transmit at 2462MHz by 802.11n（20MHz)	



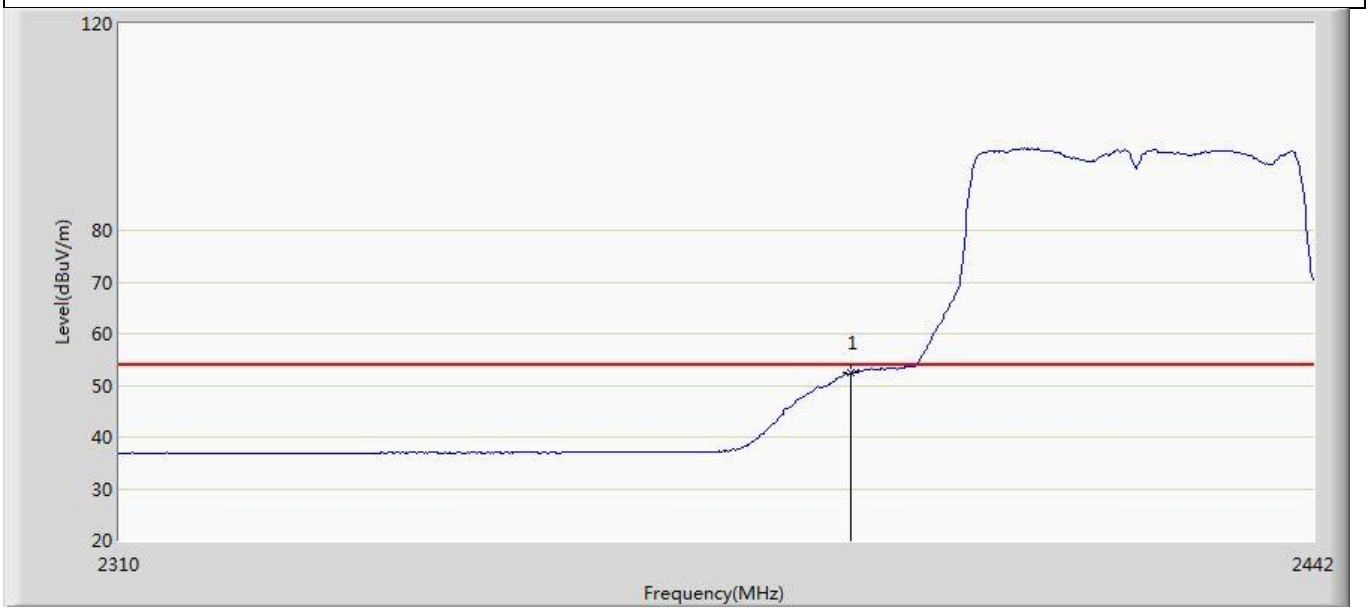
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	41.652	7.196	-12.348	54.000	34.456	AV

Profile: 2480675R	Page No.: 24
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 20:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 3：Transmit at 2462MHz by 802.11n（20MHz)	



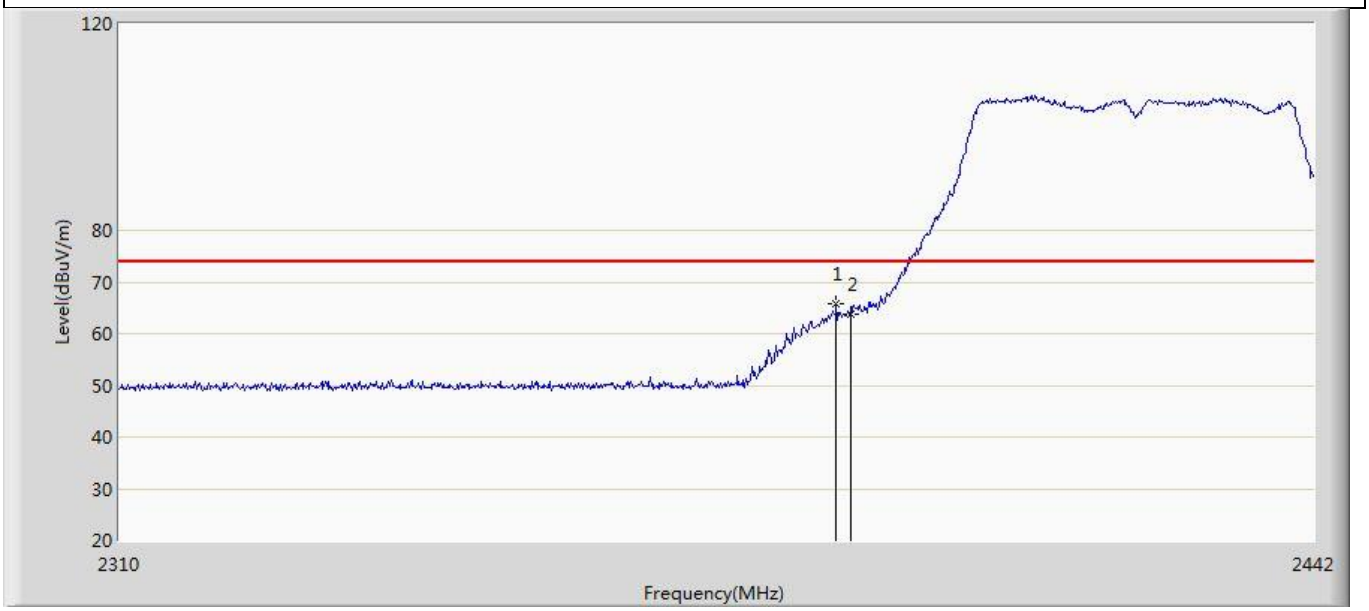
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	56.086	21.630	-17.914	74.000	34.456	PK
2	*	2484.256	57.789	23.325	-16.211	74.000	34.464	PK

Profile: 2480675R	Page No.: 25
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 20:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 4：Transmit at 2422MHz by 802.11n（40MHz)	



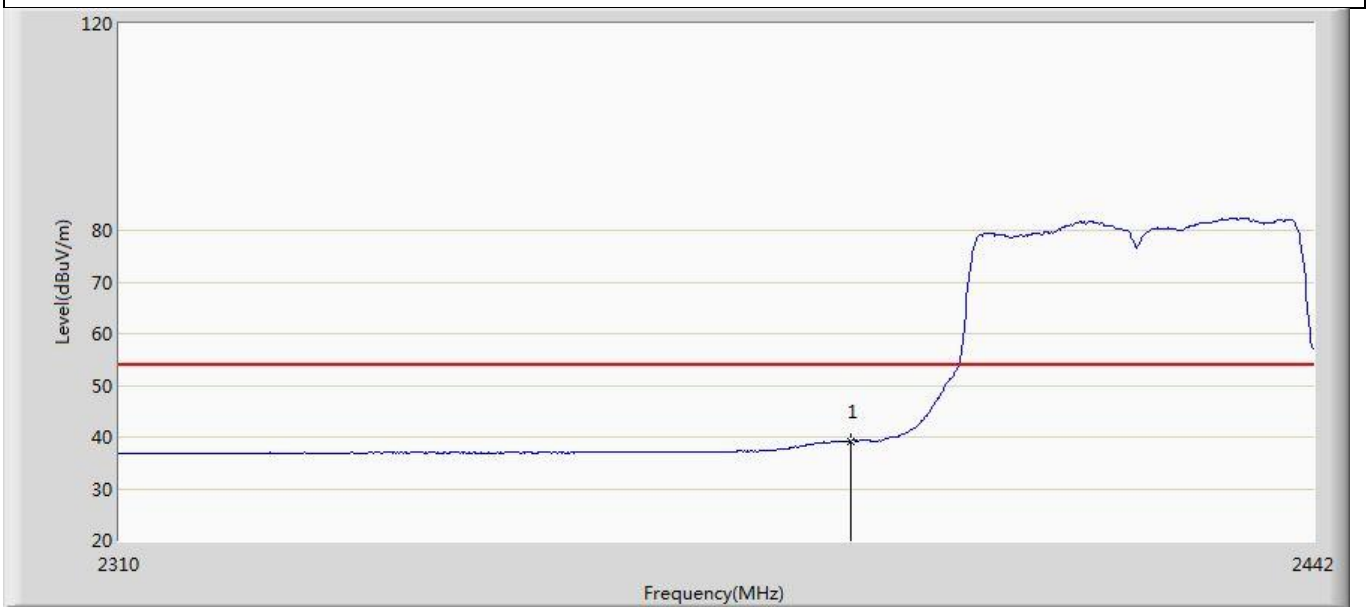
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	52.452	18.301	-1.548	54.000	34.151	AV

Profile: 2480675R	Page No.: 26
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 20:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 4：Transmit at 2422MHz by 802.11n（40MHz)	



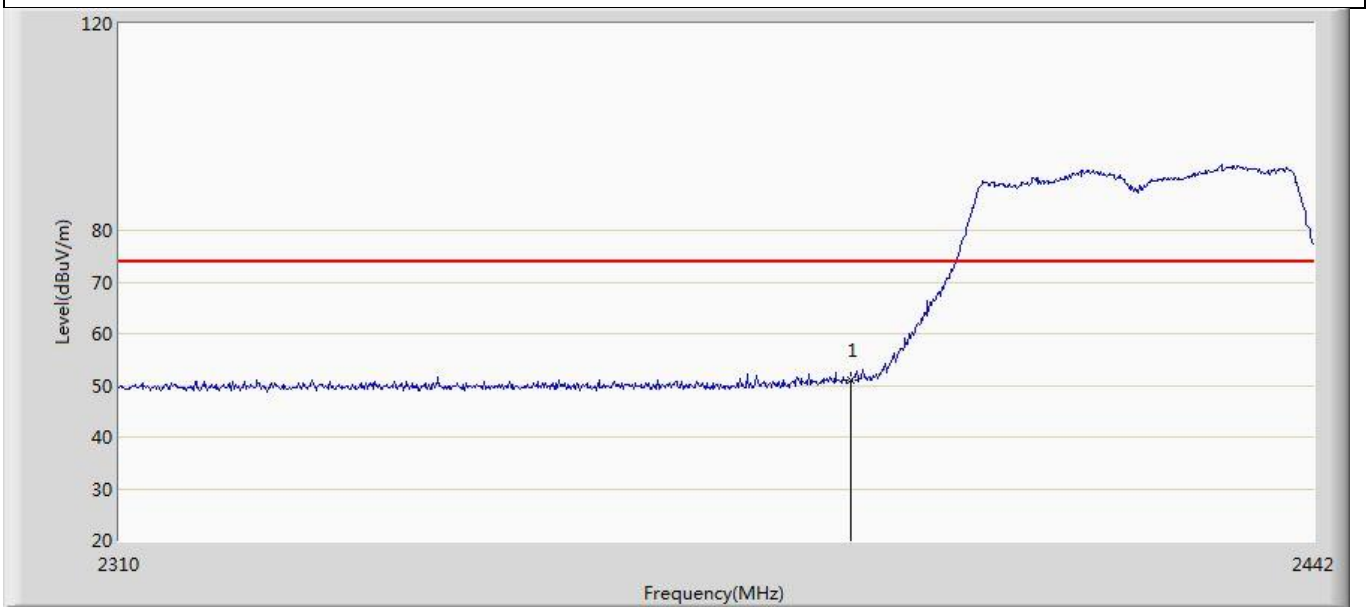
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2388.408	65.816	31.672	-8.184	74.000	34.144	PK
2		2390.000	63.697	29.546	-10.303	74.000	34.151	PK

Profile: 2480675R	Page No.: 27
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 20:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 4：Transmit at 2422MHz by 802.11n（40MHz)	



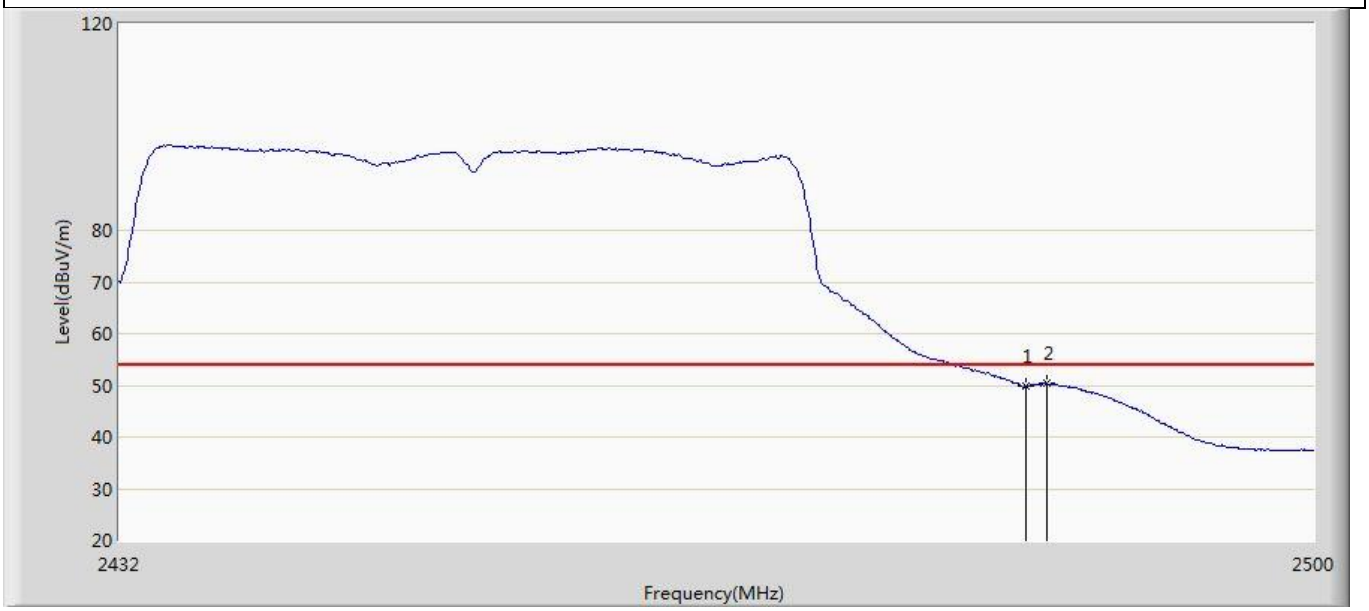
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	39.195	5.044	-14.805	54.000	34.151	AV

Profile: 2480675R	Page No.: 28
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 20:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 4：Transmit at 2422MHz by 802.11n（40MHz)	



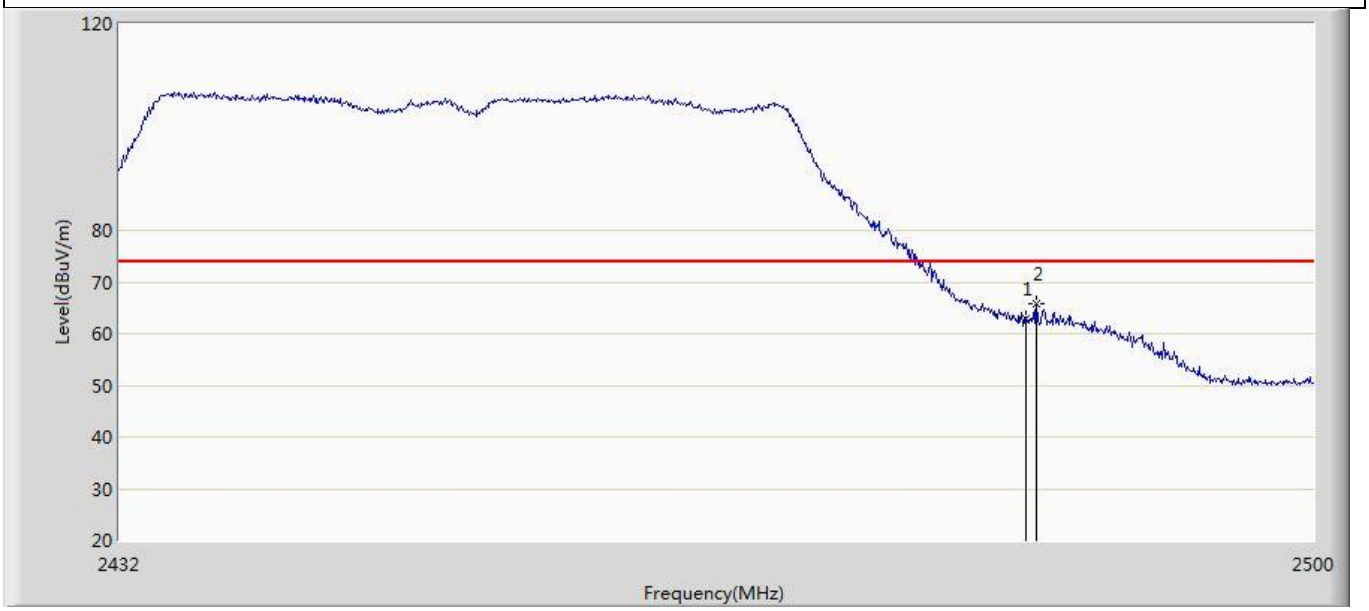
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	51.051	16.900	-22.949	74.000	34.151	PK

Profile: 2480675R	Page No.: 29
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 20:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 4：Transmit at 2452MHz by 802.11n（40MHz)	



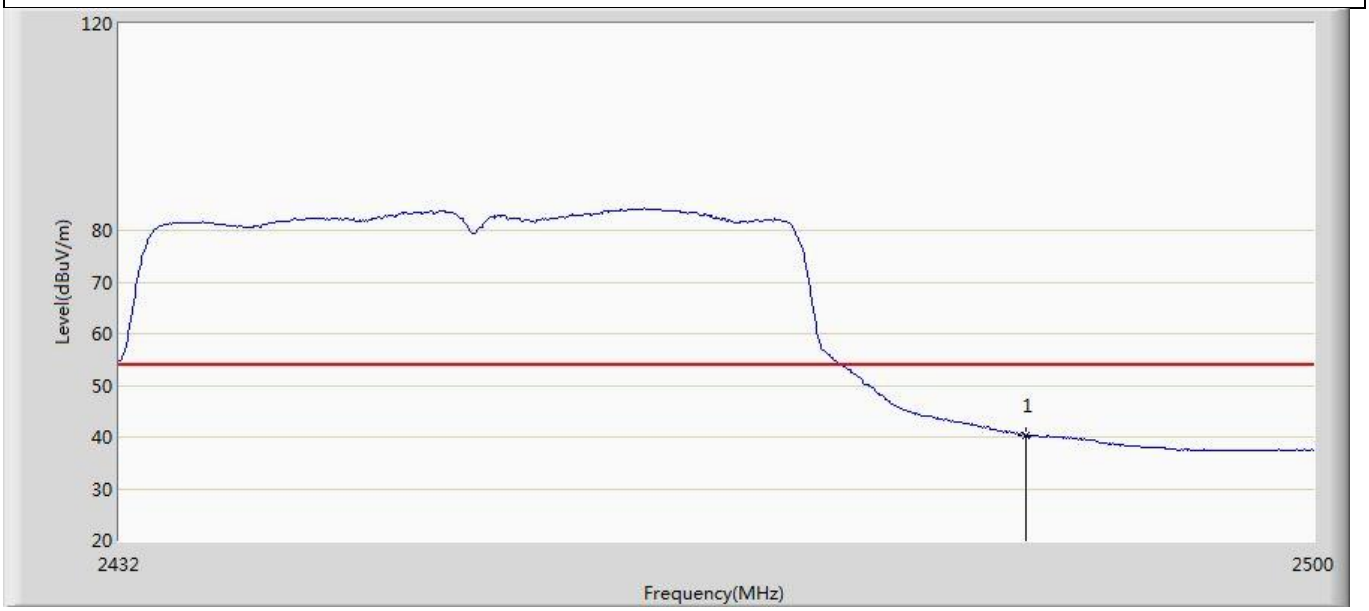
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	49.809	15.353	-4.191	54.000	34.456	AV
2	*	2484.632	50.293	15.825	-3.707	54.000	34.469	AV

Profile: 2480675R	Page No.: 30
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 20:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 4：Transmit at 2452MHz by 802.11n（40MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	62.802	28.346	-11.198	74.000	34.456	PK
2	*	2484.088	65.825	31.363	-8.175	74.000	34.462	PK

Profile: 2480675R	Page No.: 31
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 20:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 4：Transmit at 2452MHz by 802.11n（40MHz)	

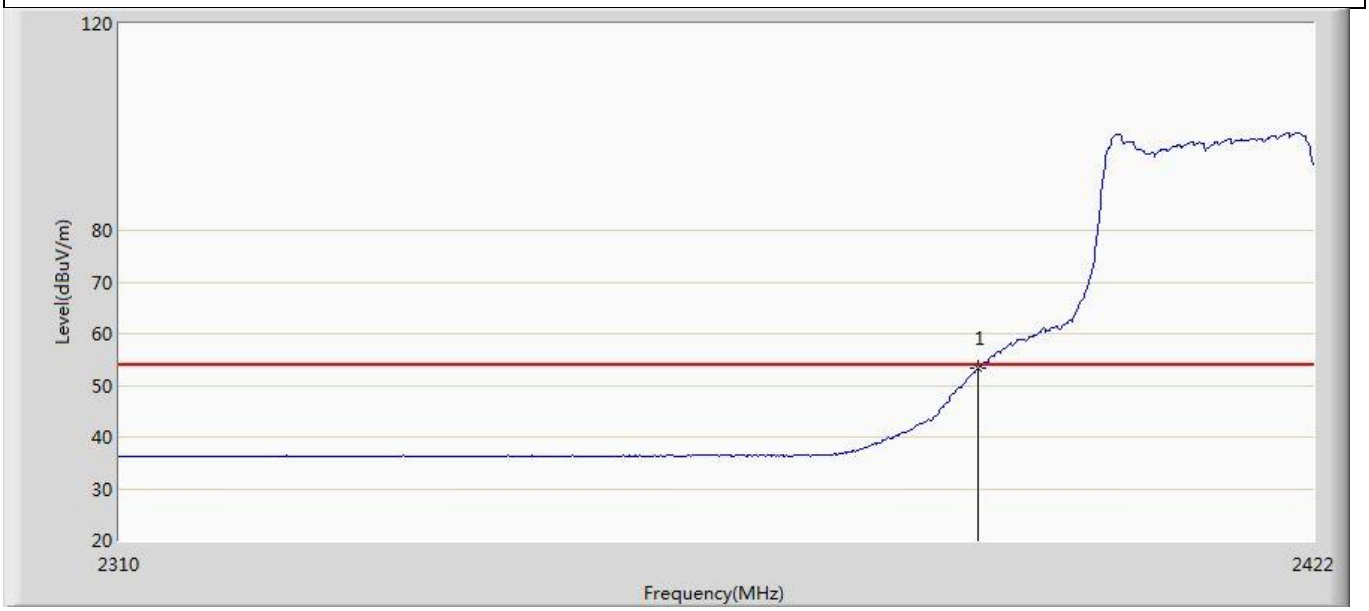


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	40.275	5.819	-13.725	54.000	34.456	AV

Profile: 2480675R	Page No.: 32
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 20:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 4：Transmit at 2452MHz by 802.11n（40MHz)	

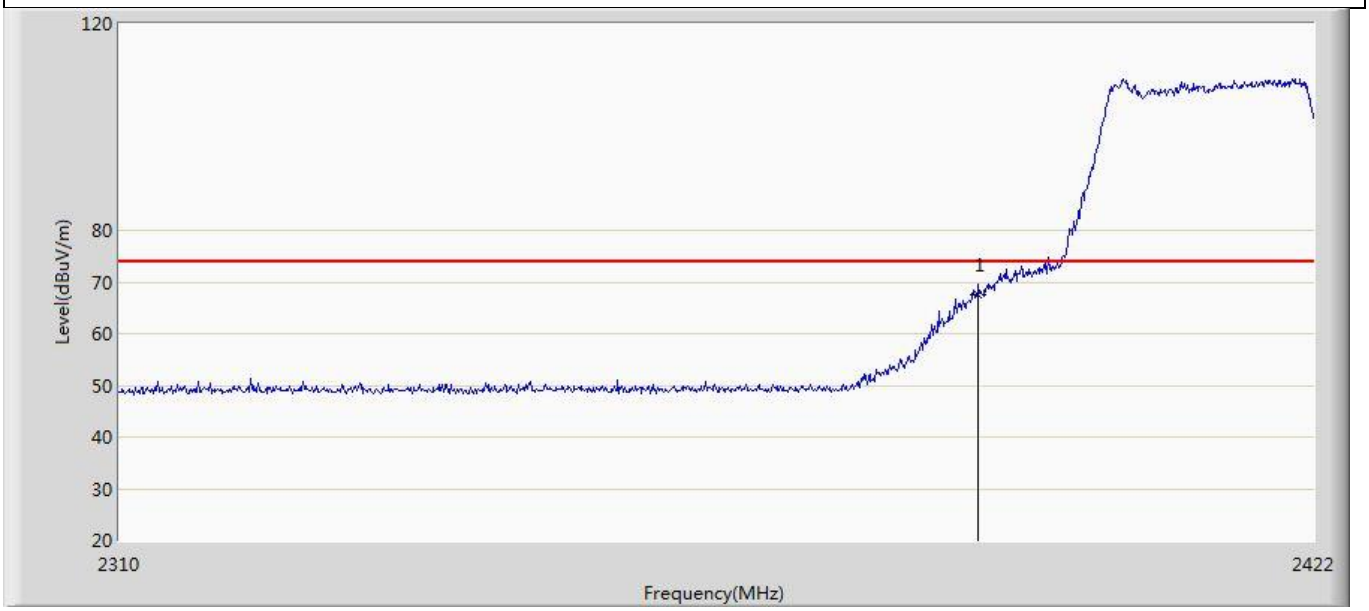
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	53.346	18.890	-20.654	74.000	34.456	PK

Profile: 2480675R	Page No.: 33
Engineer: Yuliu	
Site: AC5	Time: 2024/09/03 - 20:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 5：Transmit at 2412MHz by 802.11ax（20MHz)	



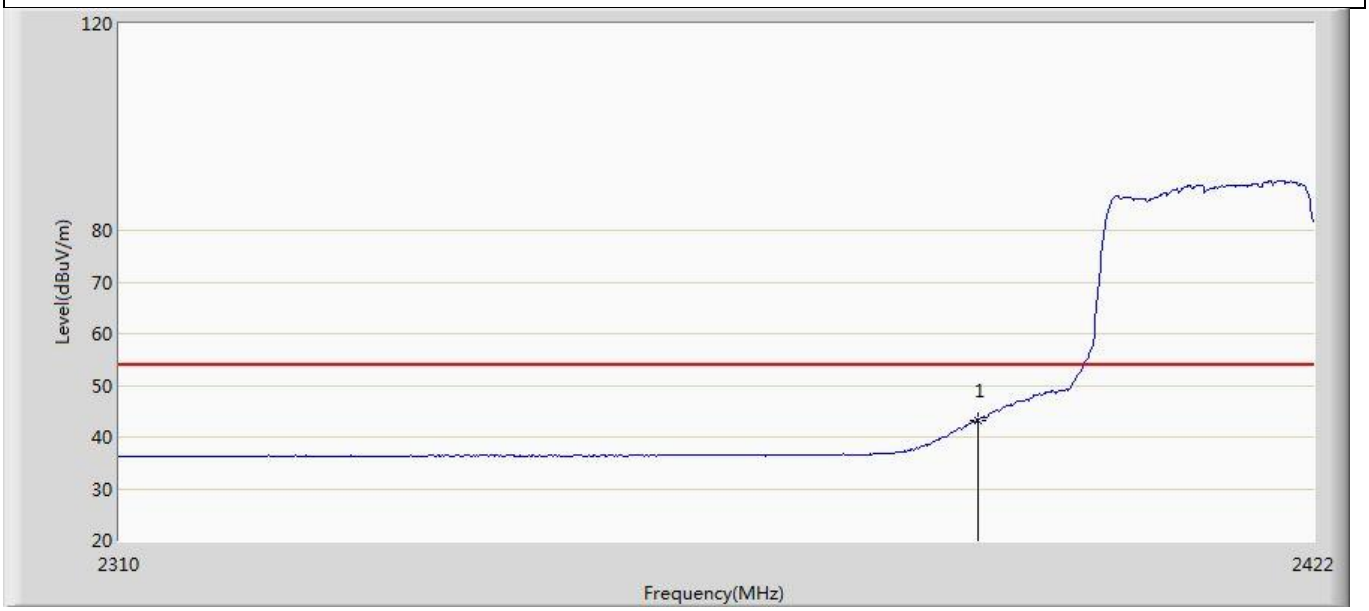
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	53.251	19.100	-0.749	54.000	34.151	AV

Profile: 2480675R	Page No.: 34
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 18:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 5：Transmit at 2412MHz by 802.11ax（20MHz)	



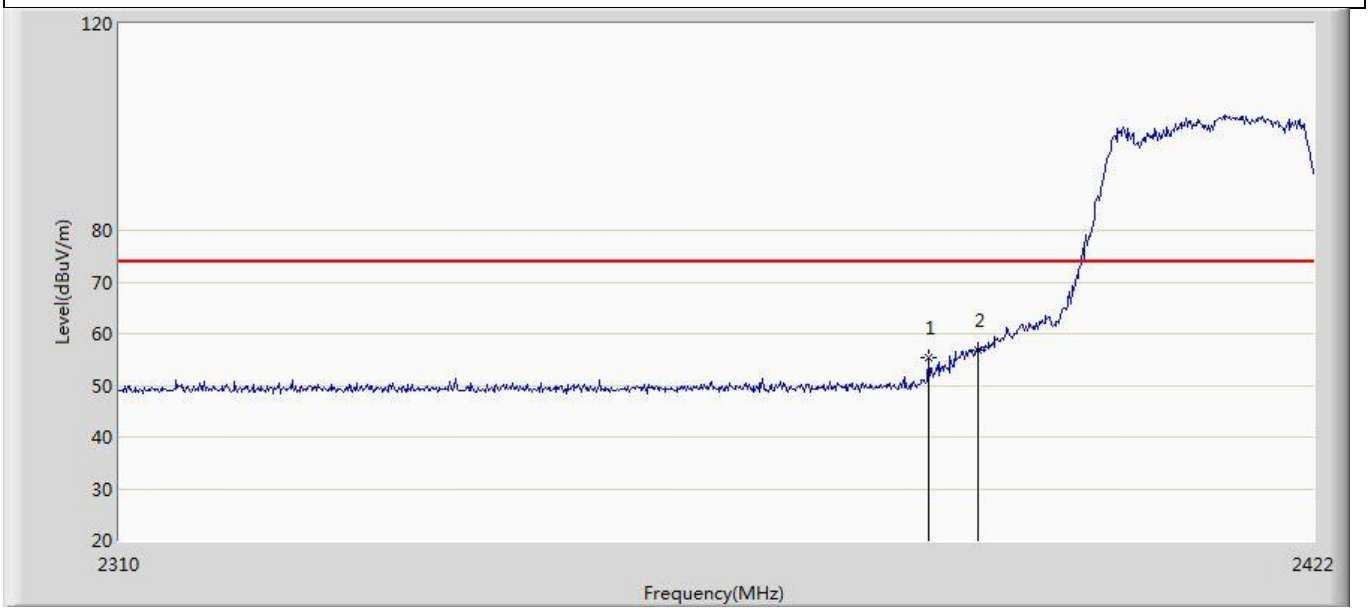
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	67.455	33.304	-6.545	74.000	34.151	PK

Profile: 2480675R	Page No.: 35
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 18:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 5：Transmit at 2412MHz by 802.11ax（20MHz)	



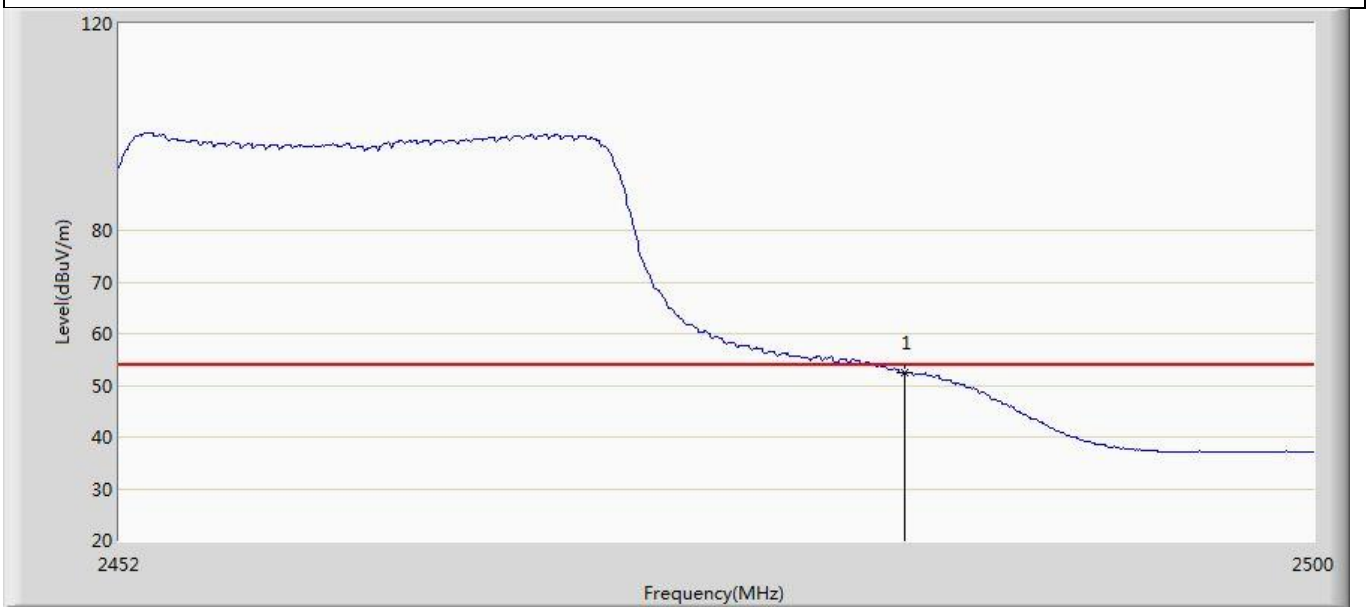
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	43.325	9.174	-10.675	54.000	34.151	AV

Profile: 2480675R	Page No.: 36
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 18:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 5：Transmit at 2412MHz by 802.11ax（20MHz)	



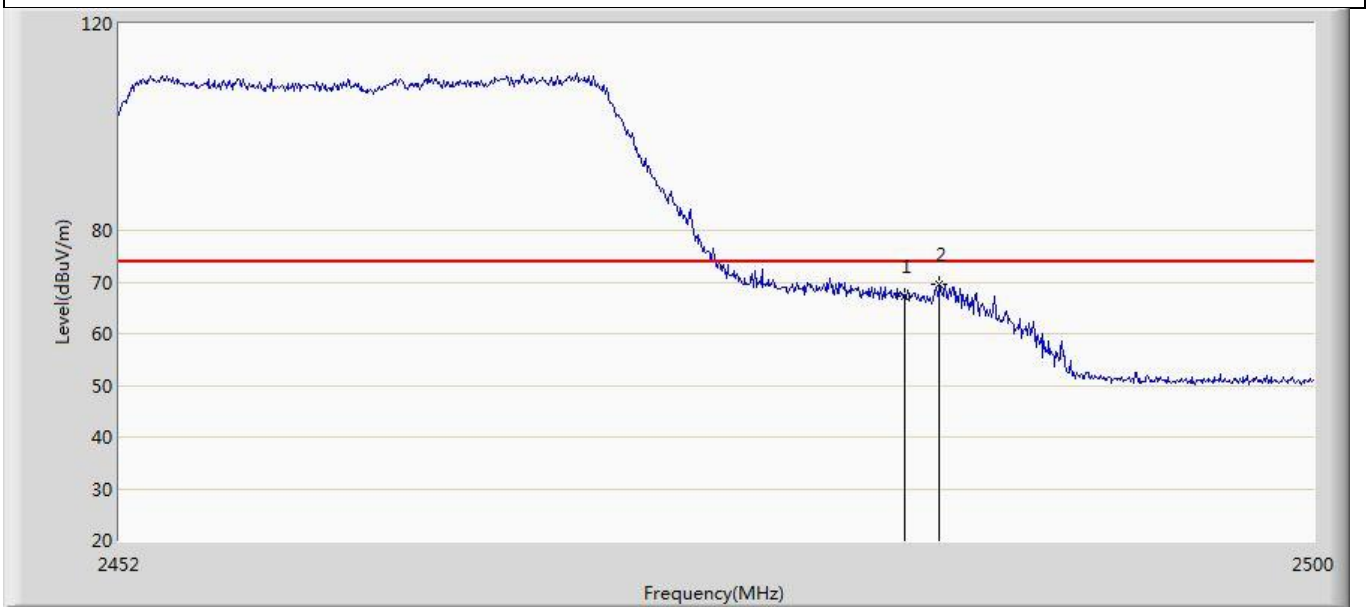
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2385.376	55.397	21.266	-18.603	74.000	34.131	PK
2	*	2390.000	56.871	22.720	-17.129	74.000	34.151	PK

Profile: 2480675R	Page No.: 37
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 18:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 5：Transmit at 2462MHz by 802.11ax（20MHz)	



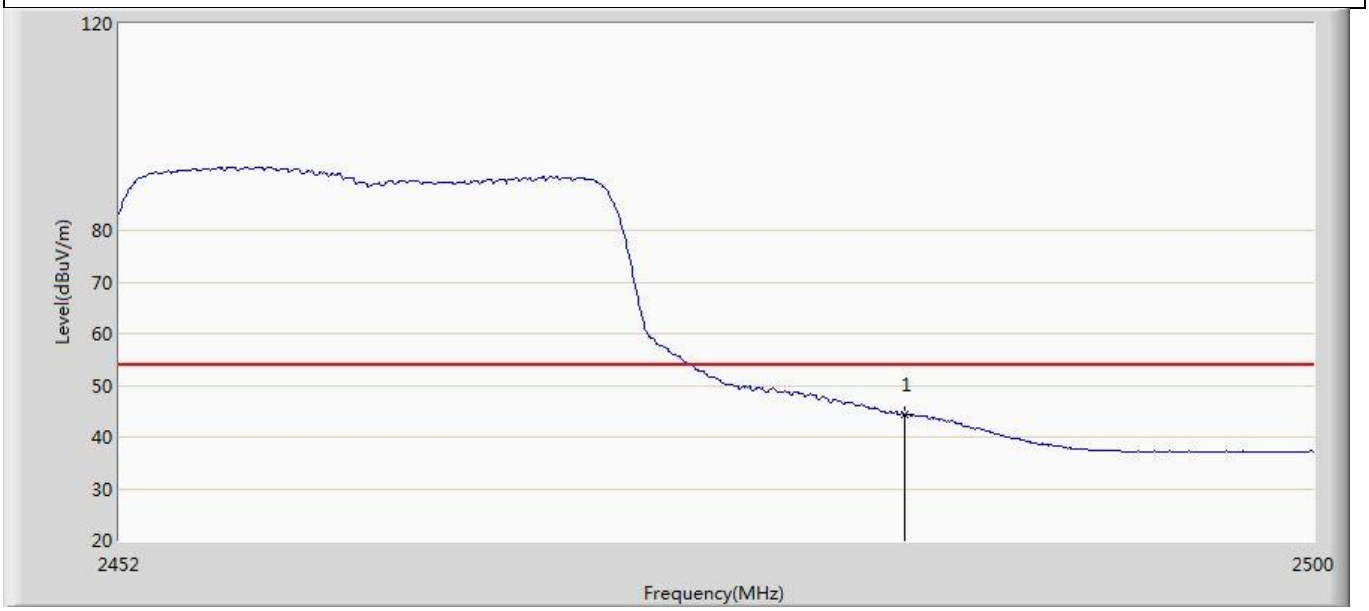
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	52.491	18.035	-1.509	54.000	34.456	AV

Profile: 2480675R	Page No.: 38
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 18:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 5：Transmit at 2462MHz by 802.11ax（20MHz)	



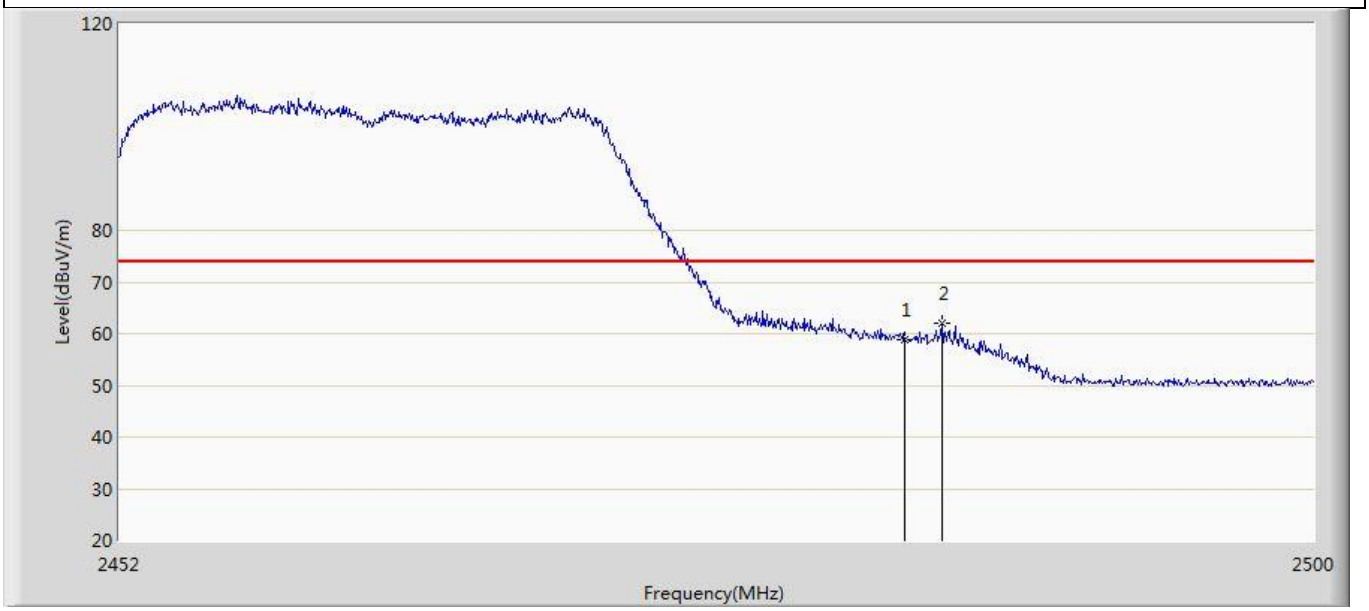
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	67.254	32.798	-6.746	74.000	34.456	PK
2	*	2484.880	69.588	35.117	-4.412	74.000	34.472	PK

Profile: 2480675R	Page No.: 39
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 18:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 5：Transmit at 2462MHz by 802.11ax（20MHz)	



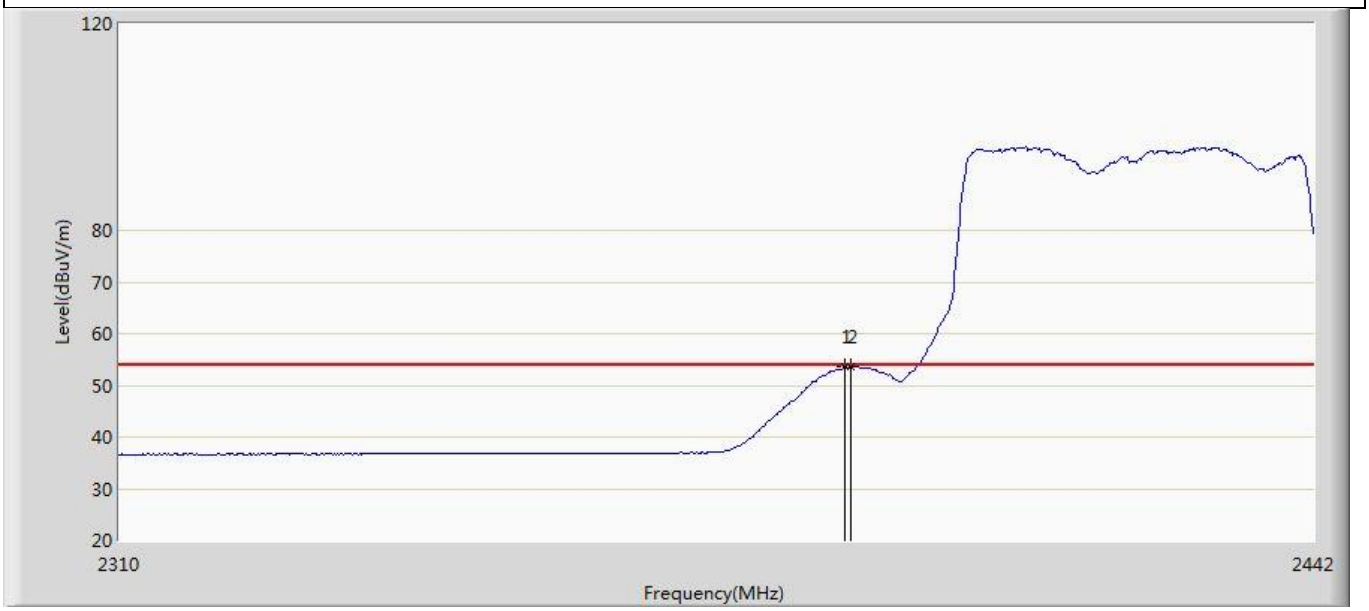
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	44.349	9.893	-9.651	54.000	34.456	AV

Profile: 2480675R	Page No.: 40
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 18:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 5：Transmit at 2462MHz by 802.11ax（20MHz)	



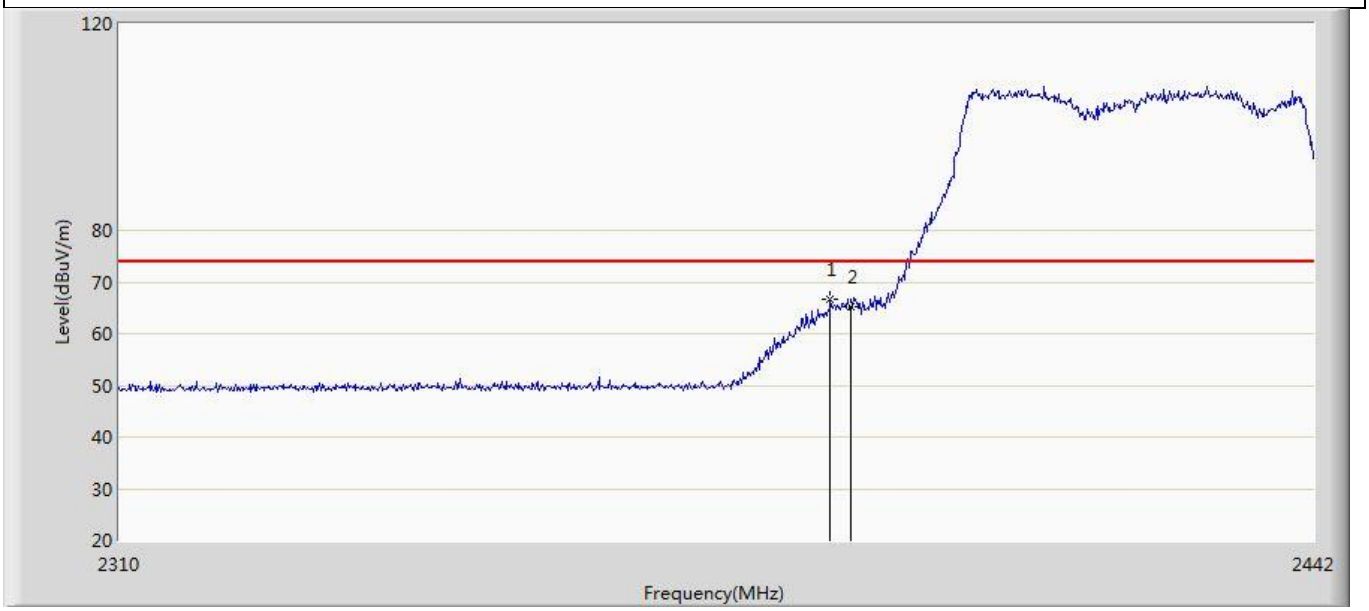
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	58.834	24.378	-15.166	74.000	34.456	PK
2	*	2484.976	61.959	27.487	-12.041	74.000	34.472	PK

Profile: 2480675R	Page No.: 41
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 18:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 6：Transmit at 2422MHz by 802.11ax（40MHz)	



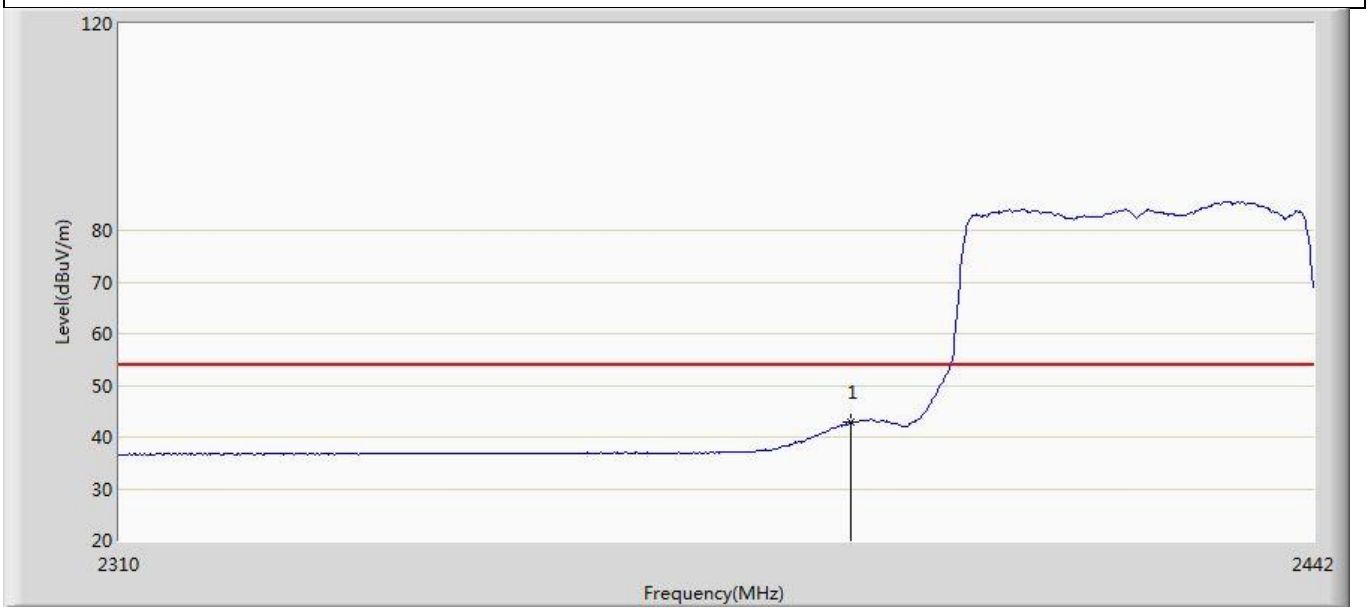
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2389.332	53.629	19.481	-0.371	54.000	34.148	AV
2		2390.000	53.504	19.353	-0.496	54.000	34.151	AV

Profile: 2480675R	Page No.: 42
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 18:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 6：Transmit at 2422MHz by 802.11ax（40MHz)	



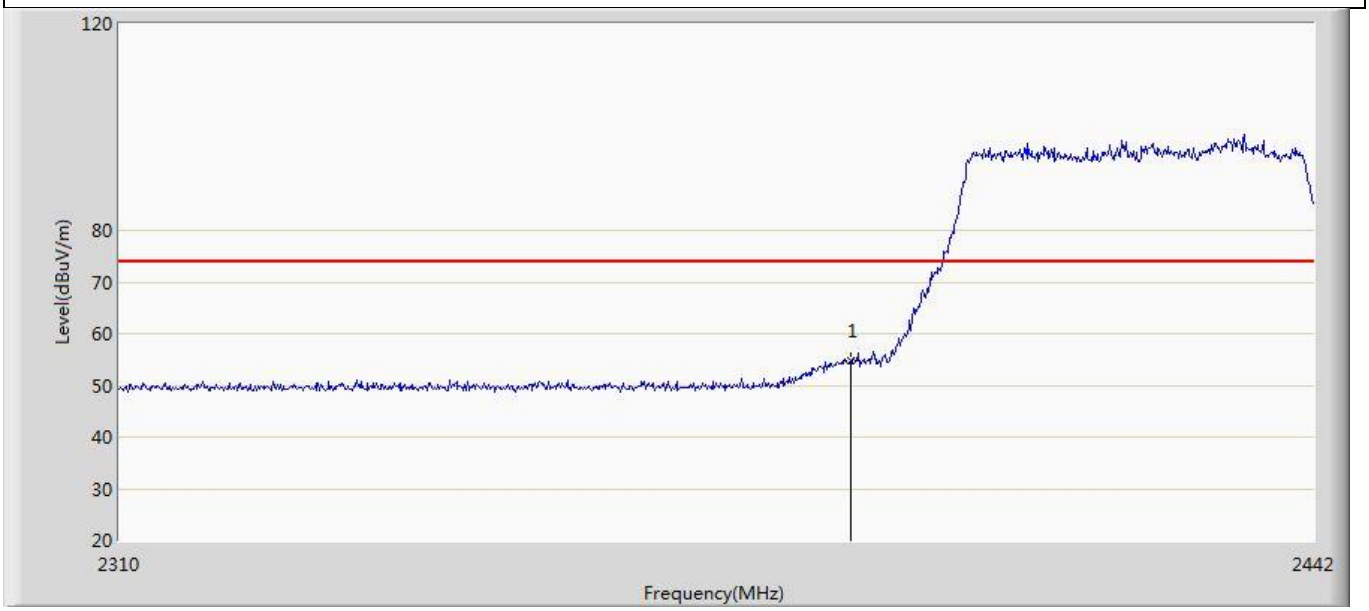
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2387.748	66.629	32.488	-7.371	74.000	34.141	PK
2		2390.000	65.160	31.009	-8.840	74.000	34.151	PK

Profile: 2480675R	Page No.: 43
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 18:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 6：Transmit at 2422MHz by 802.11ax（40MHz)	



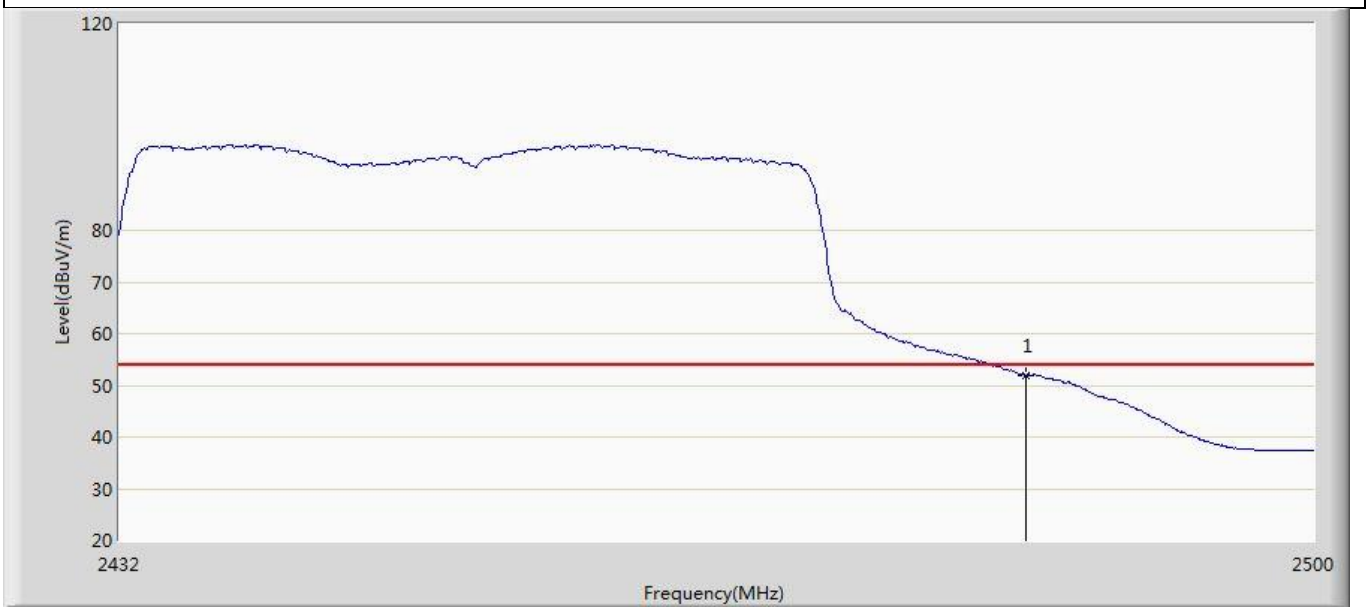
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	42.843	8.692	-11.157	54.000	34.151	AV

Profile: 2480675R	Page No.: 44
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 18:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 6：Transmit at 2422MHz by 802.11ax（40MHz)	



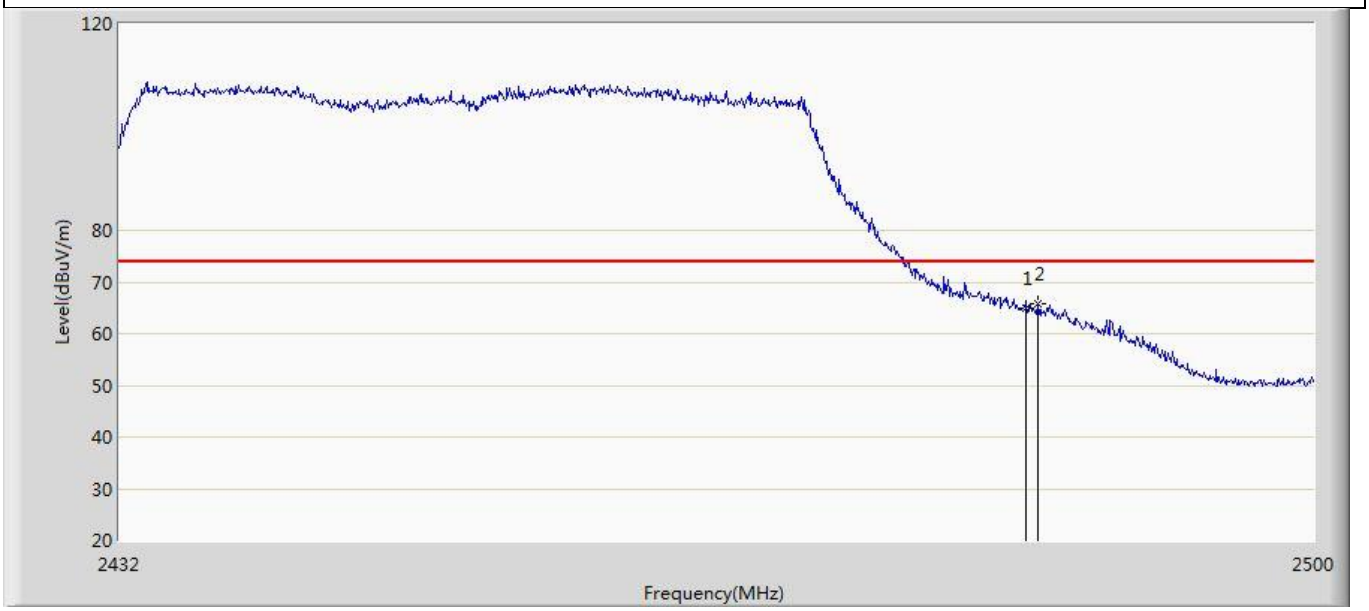
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	54.752	20.601	-19.248	74.000	34.151	PK

Profile: 2480675R	Page No.: 45
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 18:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 6：Transmit at 2452MHz by 802.11ax（40MHz)	



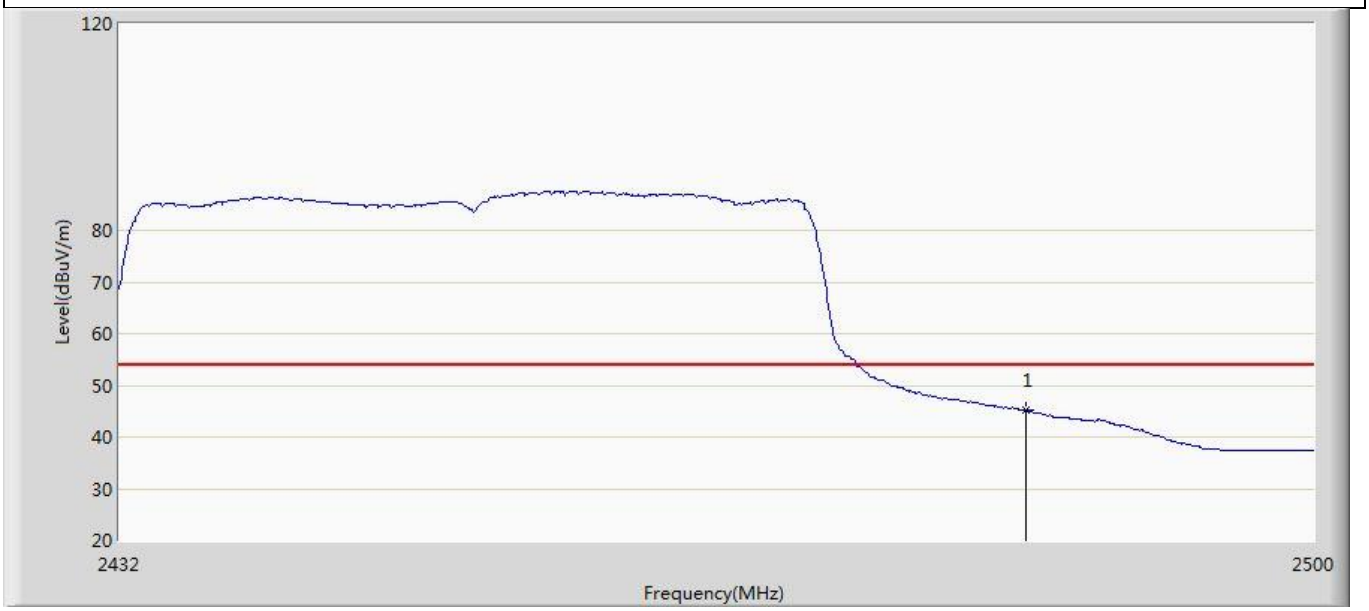
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	51.919	17.463	-2.081	54.000	34.456	AV

Profile: 2480675R	Page No.: 46
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 18:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 6：Transmit at 2452MHz by 802.11ax（40MHz)	



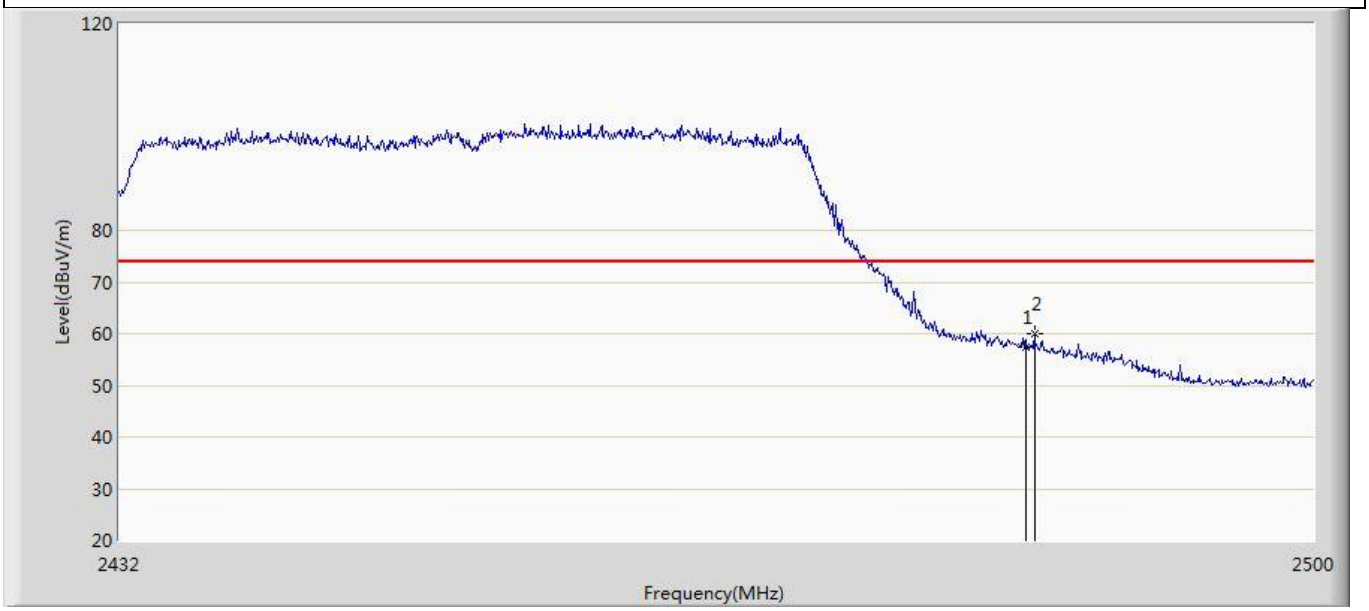
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	65.027	30.571	-8.973	74.000	34.456	PK
2	*	2484.156	65.664	31.201	-8.336	74.000	34.463	PK

Profile: 2480675R	Page No.: 47
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 18:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 6：Transmit at 2452MHz by 802.11ax（40MHz)	



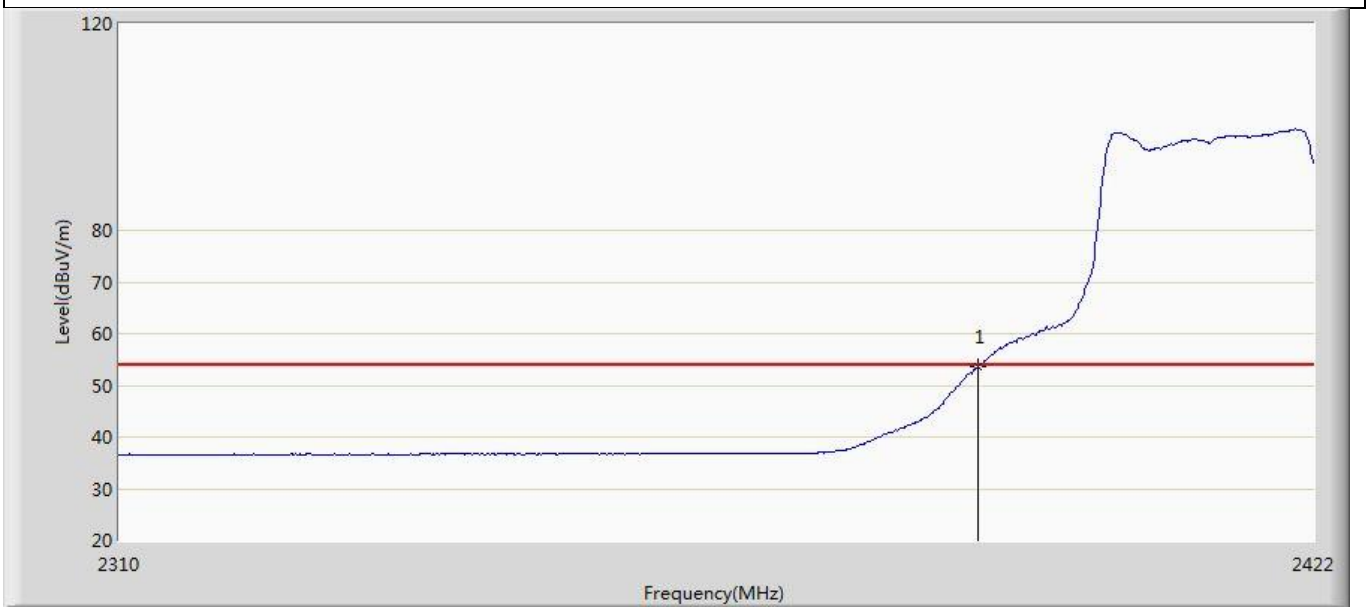
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	45.136	10.680	-8.864	54.000	34.456	AV

Profile: 2480675R	Page No.: 48
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 19:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 6：Transmit at 2452MHz by 802.11ax（40MHz)	



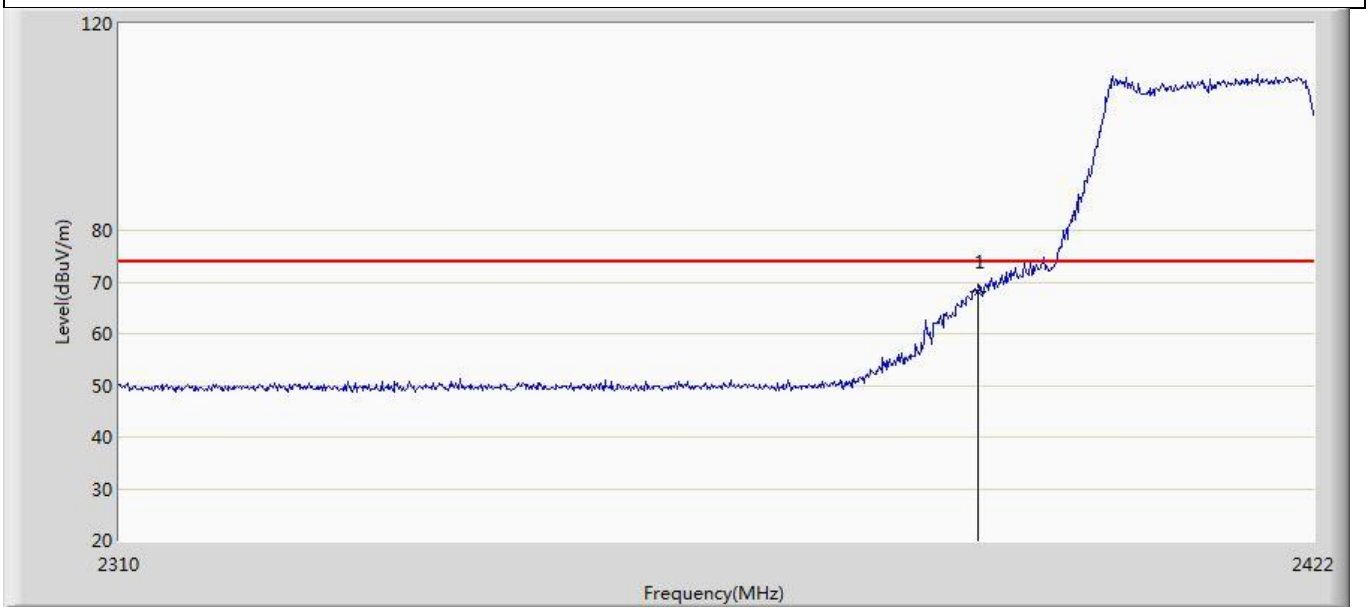
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	57.458	23.002	-16.542	74.000	34.456	PK
2	*	2483.952	59.885	25.424	-14.115	74.000	34.461	PK

Profile: 2480675R	Page No.: 49
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 19:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 7：Transmit at 2412MHz by 802.11be（20MHz)	



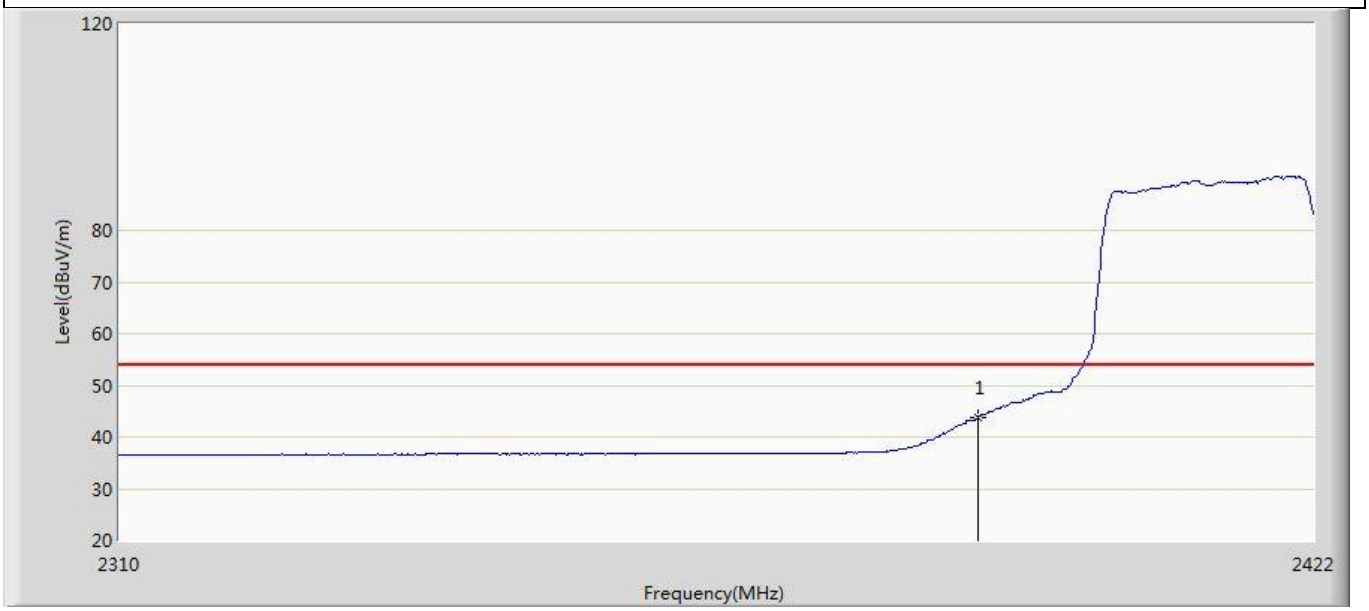
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	53.555	19.404	-0.445	54.000	34.151	AV

Profile: 2480675R	Page No.: 50
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 19:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 7：Transmit at 2412MHz by 802.11be（20MHz)	



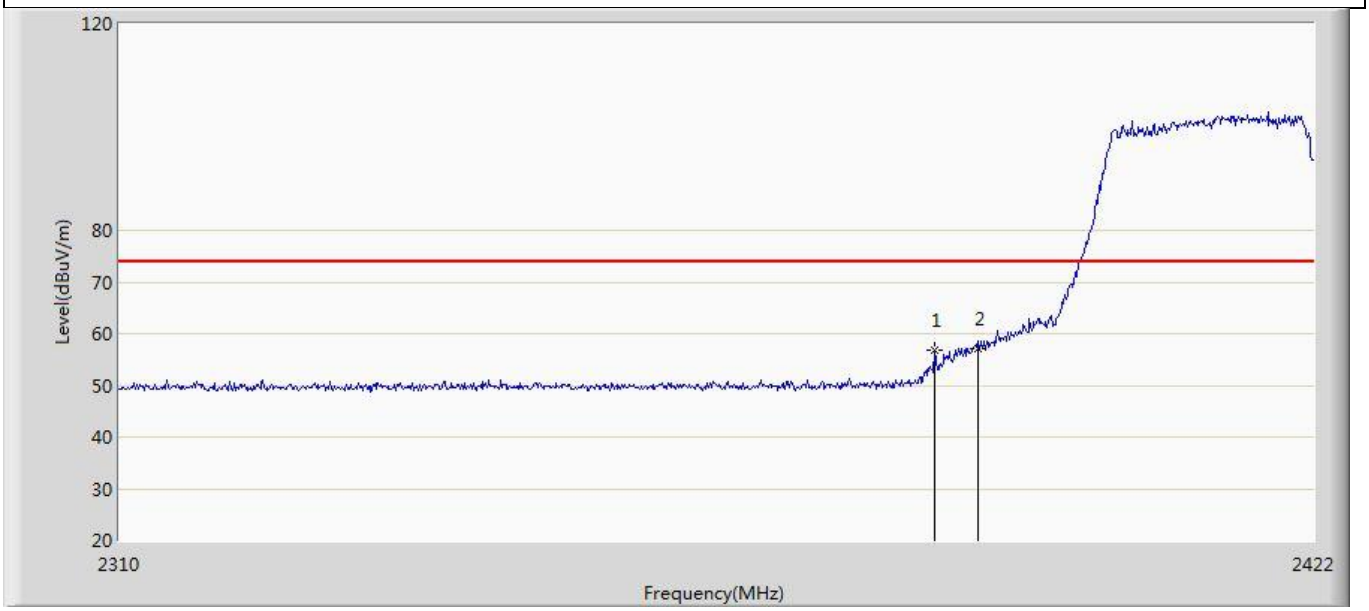
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	68.033	33.882	-5.967	74.000	34.151	PK

Profile: 2480675R	Page No.: 51
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 19:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 7：Transmit at 2412MHz by 802.11be（20MHz)	



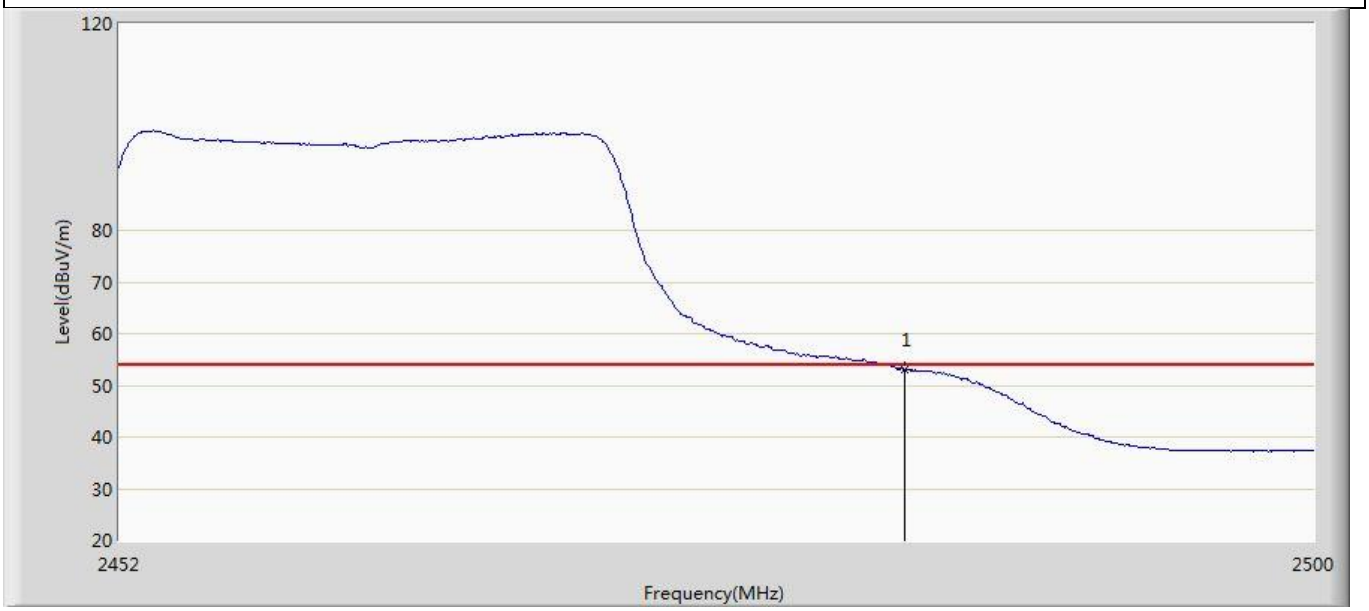
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	43.791	9.640	-10.209	54.000	34.151	AV

Profile: 2480675R	Page No.: 52
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 19:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 7：Transmit at 2412MHz by 802.11be（20MHz)	



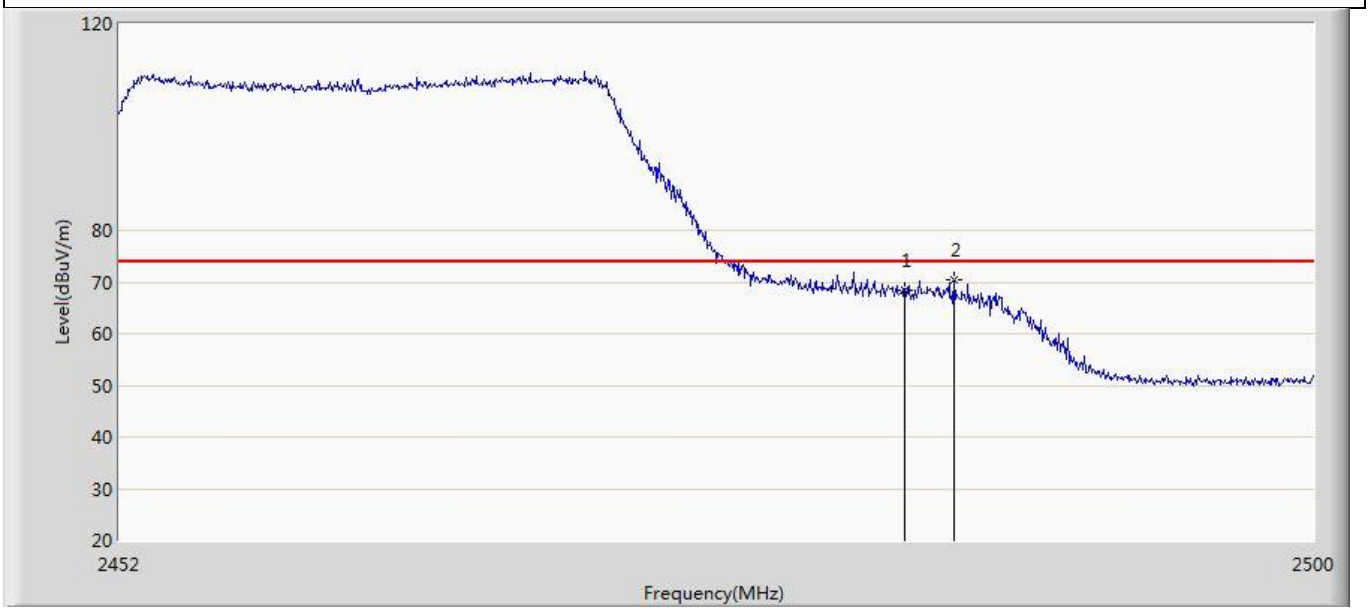
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2385.936	56.774	22.641	-17.226	74.000	34.133	PK
2	*	2390.000	57.211	23.060	-16.789	74.000	34.151	PK

Profile: 2480675R	Page No.: 53
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 19:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 7：Transmit at 2462MHz by 802.11be（20MHz)	



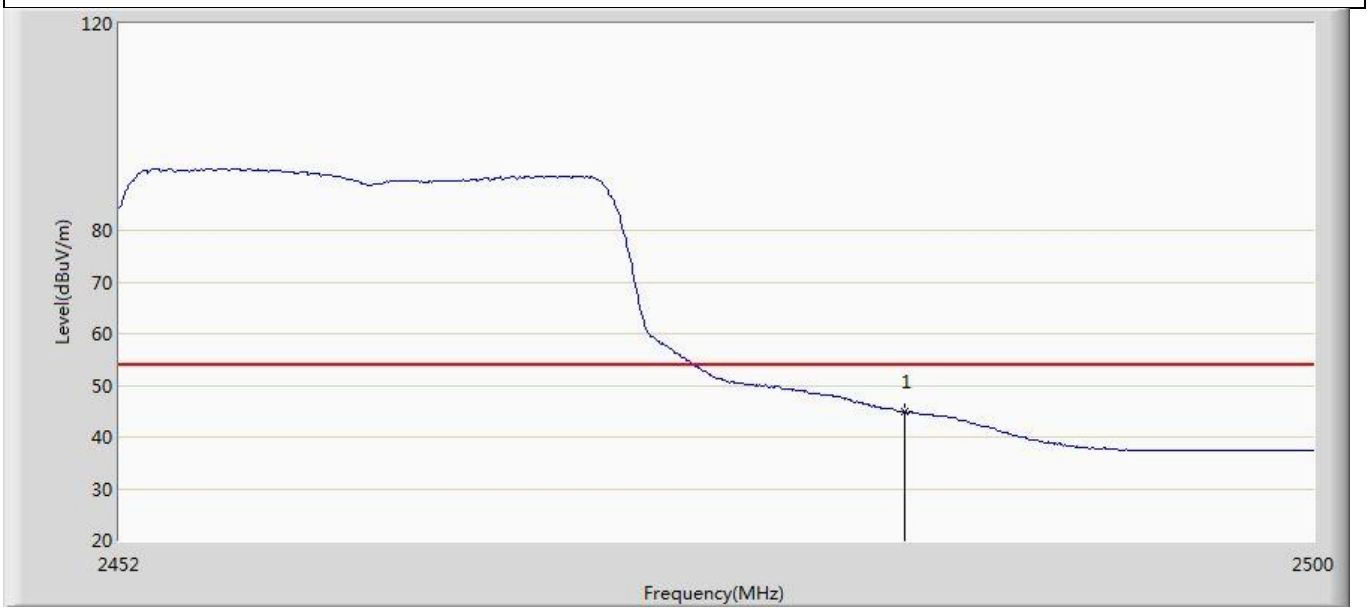
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	52.957	18.501	-1.043	54.000	34.456	AV

Profile: 2480675R	Page No.: 54
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 19:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 7：Transmit at 2462MHz by 802.11be（20MHz)	



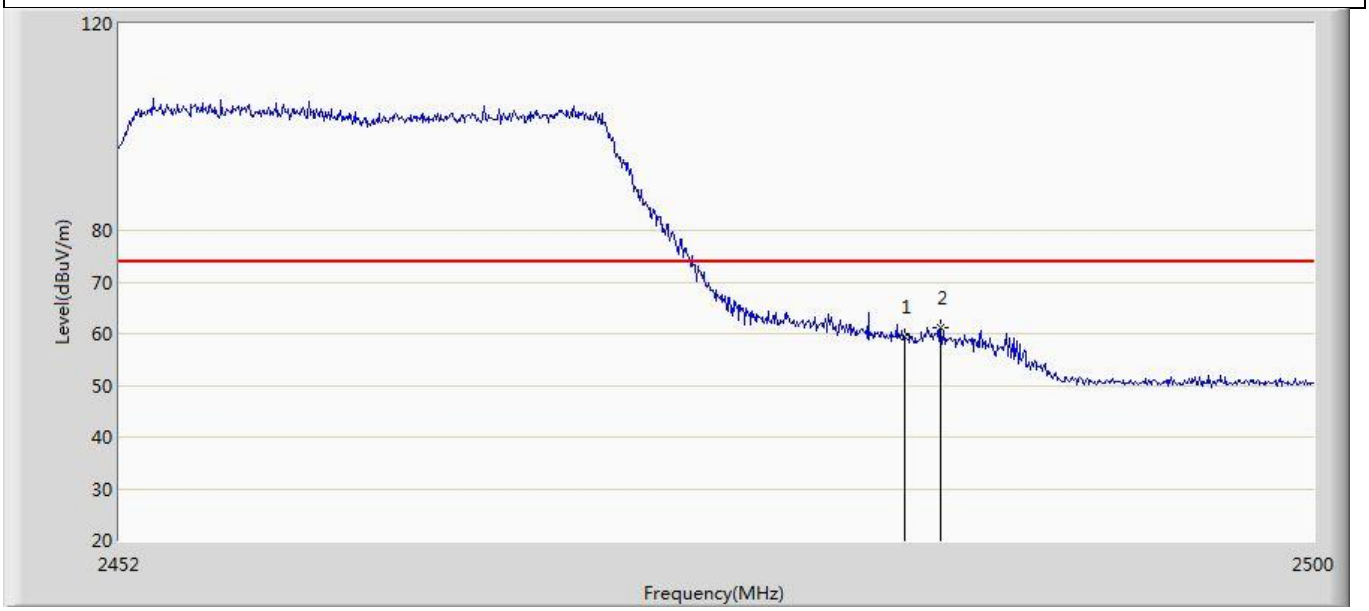
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	68.282	33.826	-5.718	74.000	34.456	PK
2	*	2485.456	70.385	35.908	-3.615	74.000	34.478	PK

Profile: 2480675R	Page No.: 55
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 19:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 7：Transmit at 2462MHz by 802.11be（20MHz)	



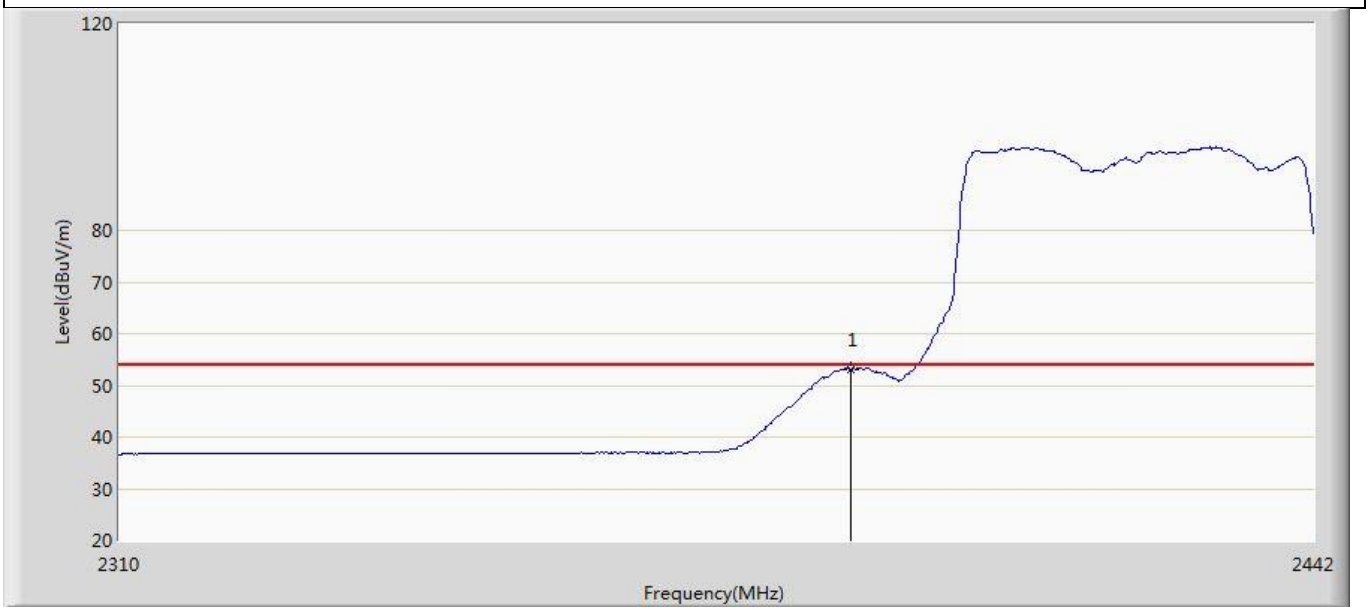
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	44.848	10.392	-9.152	54.000	34.456	AV

Profile: 2480675R	Page No.: 56
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 19:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 7：Transmit at 2462MHz by 802.11be（20MHz)	



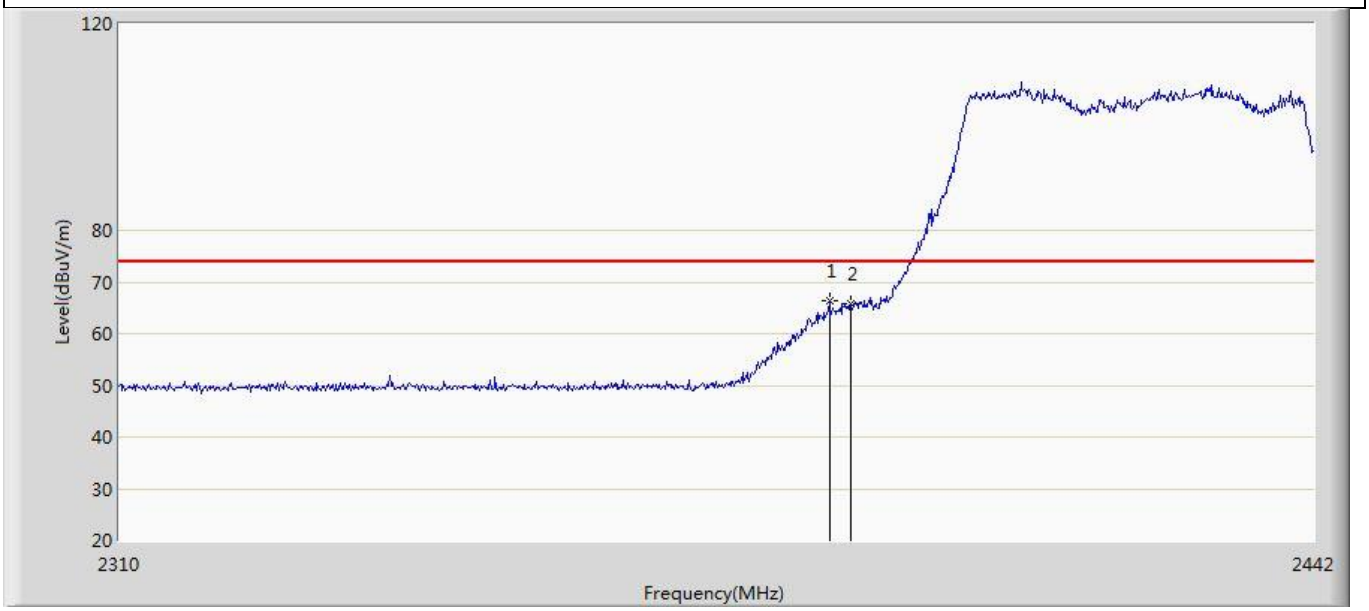
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	59.413	24.957	-14.587	74.000	34.456	PK
2	*	2484.928	61.158	26.686	-12.842	74.000	34.472	PK

Profile: 2480675R	Page No.: 57
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 19:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 8：Transmit at 2422MHz by 802.11be（40MHz)	



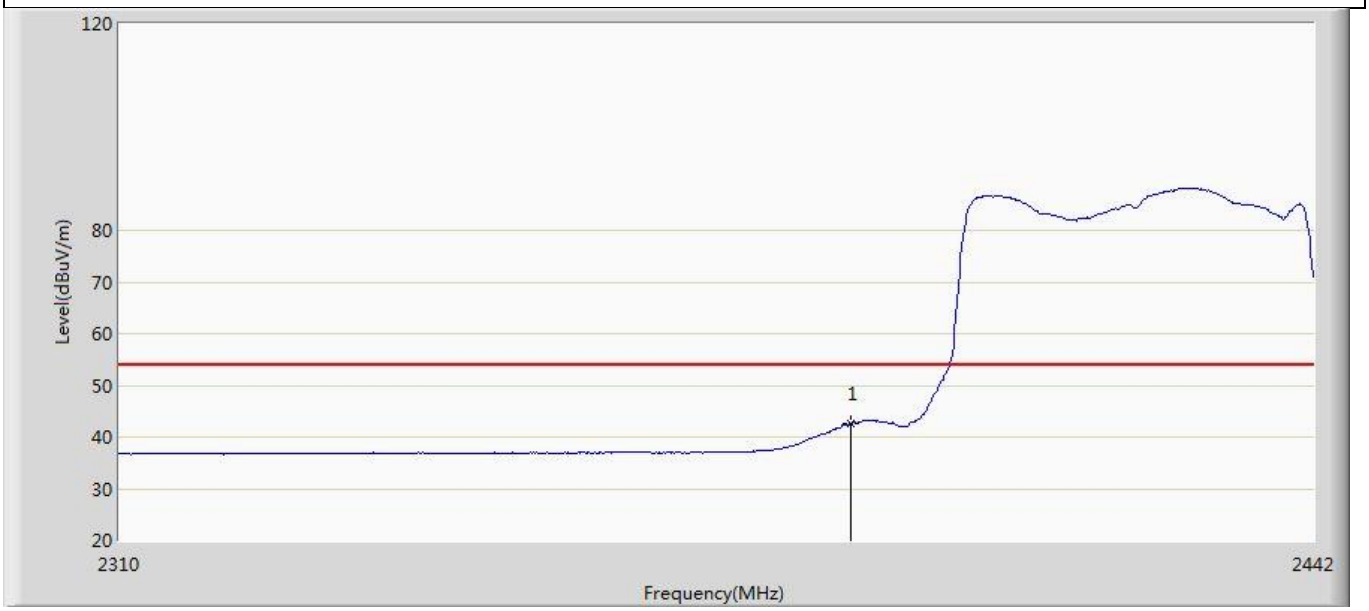
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	53.088	18.937	-0.912	54.000	34.151	AV

Profile: 2480675R	Page No.: 58
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 19:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 8：Transmit at 2422MHz by 802.11be（40MHz)	



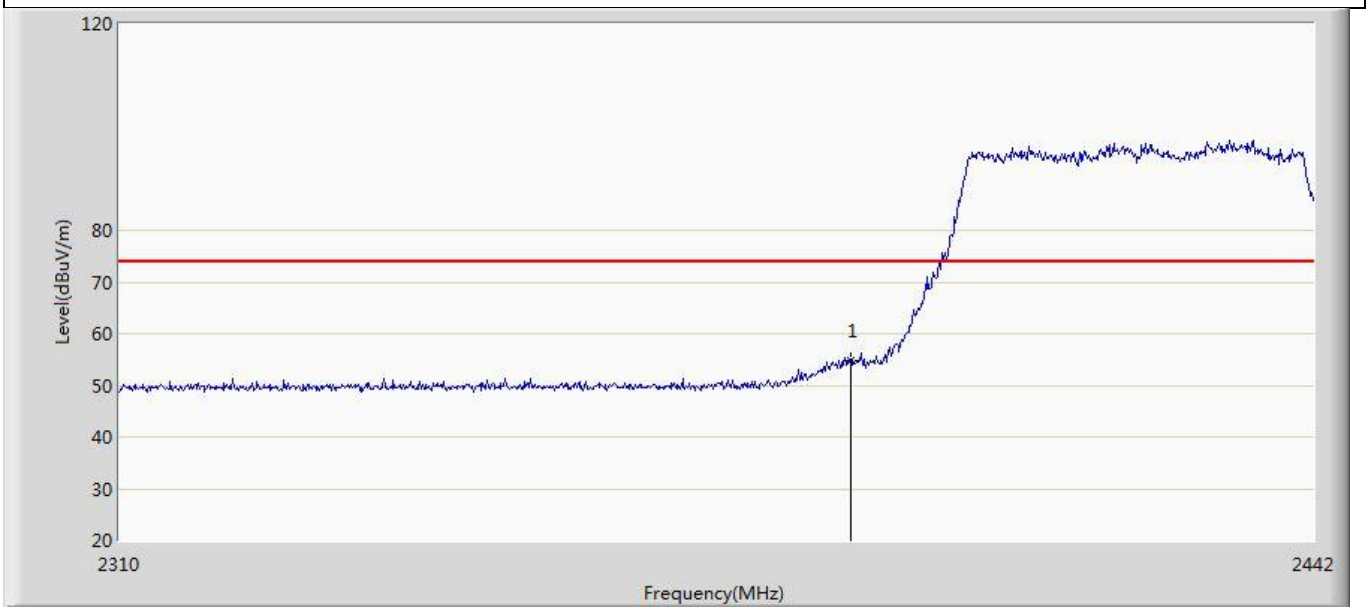
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2387.616	66.340	32.199	-7.660	74.000	34.140	PK
2		2390.000	65.681	31.530	-8.319	74.000	34.151	PK

Profile: 2480675R	Page No.: 59
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 19:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 8：Transmit at 2422MHz by 802.11be（40MHz)	



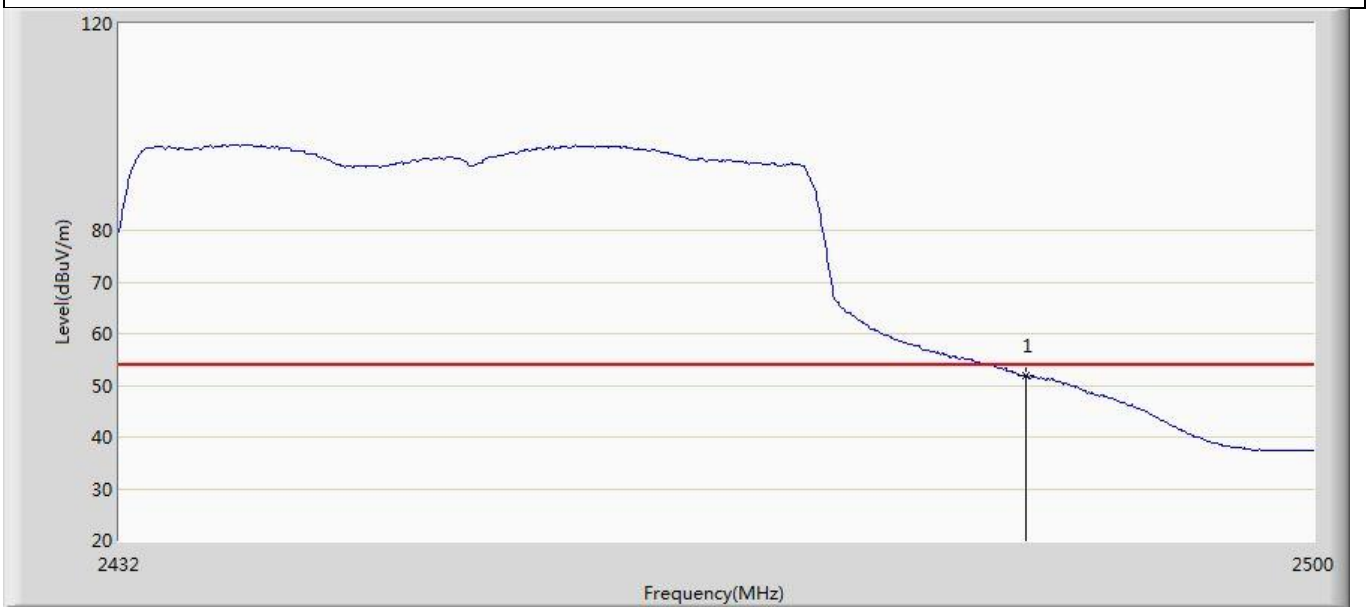
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	42.643	8.492	-11.357	54.000	34.151	AV

Profile: 2480675R	Page No.: 60
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 19:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 8：Transmit at 2422MHz by 802.11be（40MHz)	



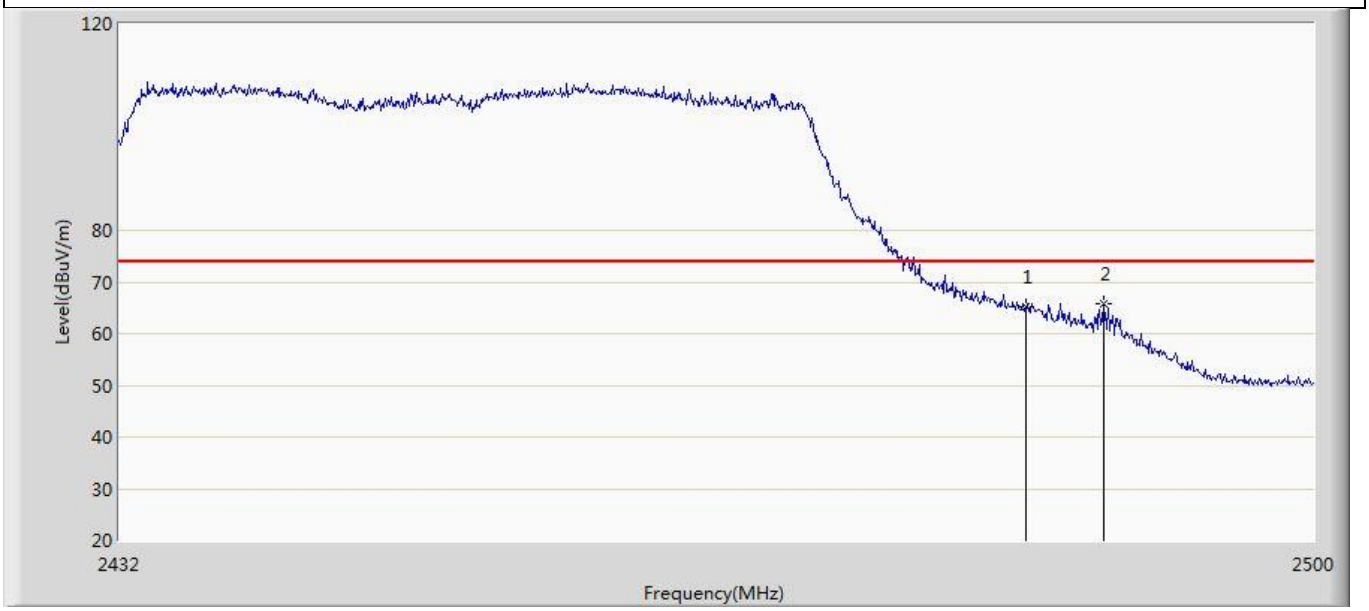
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	54.897	20.746	-19.103	74.000	34.151	PK

Profile: 2480675R	Page No.: 61
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 19:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 8：Transmit at 2452MHz by 802.11be（40MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	51.853	17.397	-2.147	54.000	34.456	AV

Profile: 2480675R	Page No.: 62
Engineer: Yuliu	
Site: AC5	Time: 2024/09/04 - 19:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module	Power: 3.3 Vdc
Note: Mode 8：Transmit at 2452MHz by 802.11be（40MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	65.084	30.628	-8.916	74.000	34.456	PK
2	*	2487.896	65.710	31.206	-8.290	74.000	34.505	PK