TEST REPORT

Application No.:	KSCR2409001725AT
FCC ID:	2BHGF-0211C6U3
IC:	32743-0211C6U3
Name of Testing Laboratory preparing the Report:	Compliance Certification Services (Kunshan) Inc.
Address of Testing Laboratory preparing the Report:	No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.
Applicant:	KeyLife International Technology Limited
Address of Applicant:	27th Floor, Alexandra House, 18 Chater Road,Central, Hong Kong
Manufacturer:	KeyLife International Technology Limited
Address of Manufacturer:	27th Floor, Alexandra House, 18 Chater Road,Central, Hong Kong
Factory:	Zhejiang Uniview Systems Technology Co., Ltd.
Address of Factory:	No.1277 South Qingfeng South Road, Tongxiang City, Jiaxing City, Zhejiang Province, China
Equipment Under Test (EUT):	
EUT Name:	Dual-cam Doorbell (wired)
Model No.:	DB322,DB322 XXX XXX (where X may be 0-9 A-Z a-z or blank. The differences no impact safety related constructions and EMC) ♣
♣	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
For IC Model No.:	DB322
Standard(s) :	47 CFR Part 15, Subpart C 15.247 RSS-247 Issue 3, August 2023 RSS-Gen Issue 5 Amendment 2 (February 2021)
Date of Receipt:	2024-09-04
Date of Test:	2024-10-11 to 2024-10-17
Date of Issue:	2024-10-17
Test Result:	**Pass***

* In the configuration tested, the EUT complied with the standards specified above.

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

Member of the SGS Group (SGS SA)

Revision Record			
Version	**Description**	***Date***	***Remark***
00	Original	2024-10-17	/

Authorized for issue by:				
Tested By		Damon zhou **Damon_Zhou/Project Engineer**		
Approved By		Terry Hou **Terry Hou /Reviewer**		

2 Test Summary

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

N/A: Not applicable

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

Declaration of EUT Family Grouping:

Note: There are series models mentioned in this report, and they are identical in electrical and electronic characters. Only the model DB322 was tested since their differences were the model number, trade mark, color and appearance.

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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 16-24V,50/60Hz,1A
Test Voltage:	AC 120V/60Hz
Operation Frequency:	802.11b/g/n(HT20)/ax(HE20): 2412MHz to 2462MHz 802.11n(HT40)/ax(HE40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS; 802.11g/n: OFDM; 802.11ax: OFDMA
Number of Channels:	802.11b/g/n(HT20)/ax(HE20):11;802.11n(HT40)/ax(HE40):7
Channel Spacing:	5MHz
Antenna Type:	Internal Antenna
Antenna Gain:	3.8dBi
SN:	YF0211C6U3H240827002
Firmware Version:	IPC01SMR3M

4.2 Power level setting using in test

Channel	802.11b	802.11g	802.11n(HT20)	802.11ax(HEW20)
	Ant 1	Ant 1	Ant 1	Ant 1
1	10	5	5	3
6	11	5	5	3
11	9	5	5	3

Channel	802.11n(HT40)	802.11ax(HEW40)
	Ant 1	Ant 1
3	5	3
6	5	4
9	5	3

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	Lenovo	/	/
AC Adapter	/	/	/

4.4 Measurement Uncertainty

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

4.5 Test Location

Lab A:

Compliance Certification Services (Kunshan) Inc.

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

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

Lab B:

Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Emissions which fall in the restricted bands; Radiated Spurious Emissions test at:

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone

Post code: 215122

Note:

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

4.6 Test Facility

Lab A:

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

- **A2LA**

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

- **FCC**

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

- **ISED**

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

- **VCCI**

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

Lab B:

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

5 Equipment List

Lab A:

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	08/01/2024	07/31/2025
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	08/01/2024	07/31/2025
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/15/2024	01/14/2025
4	Signal Generator	R&S	SMBV100B	KSEM032	03/19/2024	03/18/2025
5	Signal Generator	R&S	SMW200A	KSEM020-1	08/02/2024	08/01/2025
6	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/01/2024	07/31/2025
7	Signal Generator	Agilent	E8257C	KS301066	08/06/2024	08/05/2025
8	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/01/2024	07/31/2025
9	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	03/19/2024	03/18/2025
10	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/12/2024	08/11/2025
11	Switcher	TST	FY562	KUS2001M001-4	01/15/2024	01/14/2025
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	01/15/2024	01/14/2025
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	08/26/2024	08/25/2025
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	03/19/2024	03/18/2025
15	Software	BST	TST-PASS	/	NCR	NCR

Lab B:

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Conducted Emissions at AC Power Line						
1	Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2/1/2024	1/31/2025
2	Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-26-01	9/13/2024	9/12/2025
3	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2/4/2024	2/3/2025
4	Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2/4/2024	2/3/2025
5	Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2/4/2024	2/3/2025
6	Measurement Software	Tonscend	JS32-CE	SUWI-02-09-05	NCR	NCR

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
RF Radiated Test						
1	Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	6/3/2023	6/2/2026
2	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2/8/2024	2/7/2025
3	Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	5/8/2024	5/7/2025
4	Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	11/21/2023	11/20/2024
5	Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2/1/2024	1/31/2025
6	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	11/25/2023	11/24/2024
7	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	11/25/2023	11/24/2024
8	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/12/2023	5/11/2025
9	Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/13/2023	5/12/2025
10	Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2/1/2024	1/31/2025
11	Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2/1/2024	1/31/2025
12	Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2/1/2024	1/31/2025
13	Measurement Software	Tonscend	JS32-RE	SUWI-02-09-04	NCR	NCR
14	Measurement Software	Tonscend	JS32-RSE	SUWI-02-09-06	NCR	NCR

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is Internal Antenna and no consideration of replacement. The best case gain of the antenna is 3.8dBi.

Antenna location: Refer to internal photo.

7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207
Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		

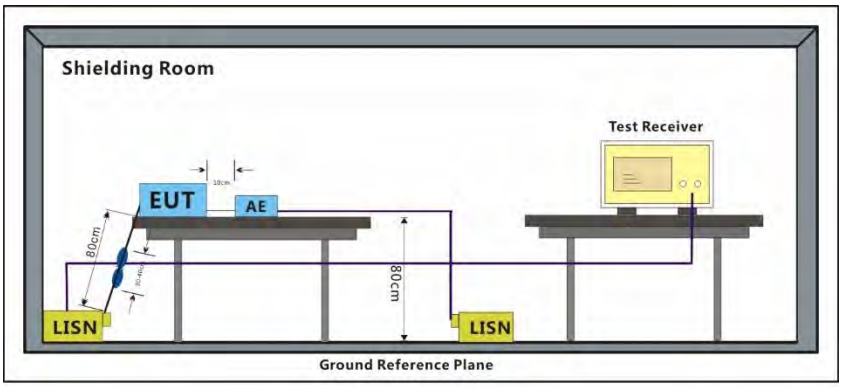
7.1.1 E.U.T. Operation

Operating Environment:
Temperature: 20.8 °C Humidity: 54.0 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

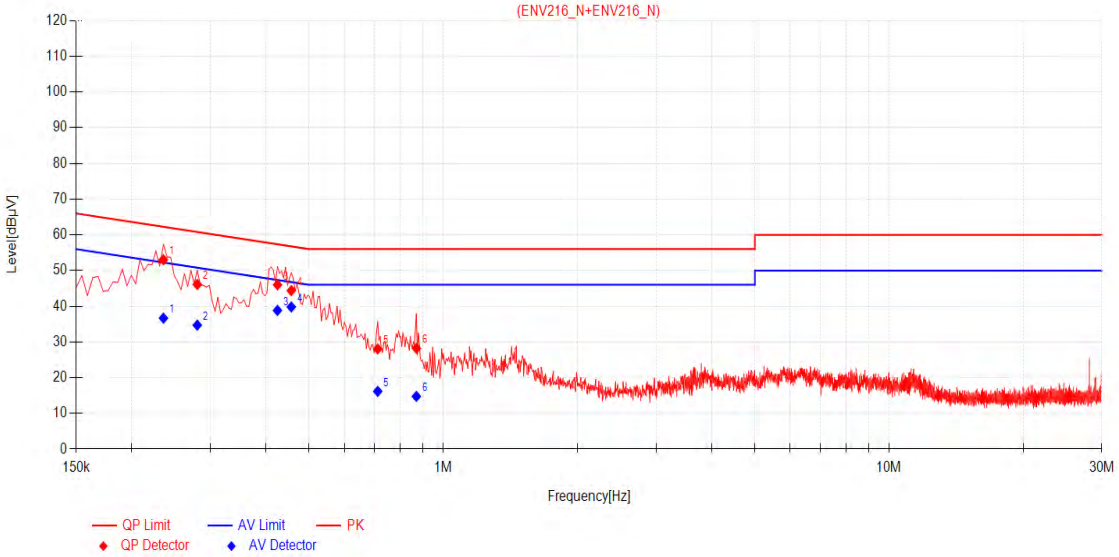
3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

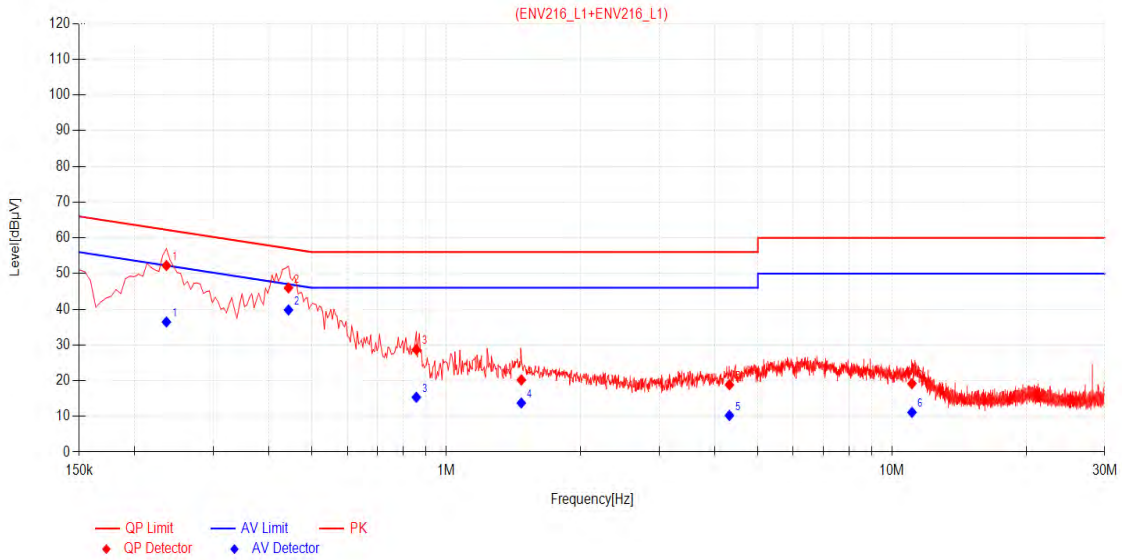
Remark: Level=Read Level+ Cable Loss+ LISN Factor

Test Mode: 02; Line: Neutral Line



Final Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.2355	10.16	42.88	53.04	62.25	9.21	26.51	36.67	52.25	15.58	PASS
2	0.2805	10.15	35.95	46.10	60.80	14.70	24.55	34.70	50.80	16.10	PASS
3	0.4245	10.16	35.83	45.99	57.36	11.37	28.67	38.83	47.36	8.53	PASS
4	0.4560	10.16	34.24	44.40	56.77	12.37	29.65	39.81	46.77	6.96	PASS
5	0.7125	10.21	17.84	28.05	56.00	27.95	5.96	16.17	46.00	29.83	PASS
6	0.8700	10.13	18.07	28.20	56.00	27.80	4.64	14.77	46.00	31.23	PASS

Test Mode: 02; Line: Live Line



Final Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2355	10.16	42.07	52.23	62.25	10.02	26.28	36.44	52.25	15.81	PASS
	0.4425	10.17	35.81	45.98	57.01	11.03	29.63	39.80	47.01	7.21	PASS
3	0.8565	10.13	18.57	28.70	56.00	27.30	5.22	15.35	46.00	30.65	PASS
4	1.4730	10.08	10.13	20.21	56.00	35.79	3.67	13.75	46.00	32.25	PASS
5	4.3170	10.10	8.75	18.85	56.00	37.15	0.16	10.26	46.00	35.74	PASS
6	11.0850	10.04	9.14	19.18	60.00	40.82	1.08	11.12	50.00	38.88	PASS

7.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.10.5
Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.		

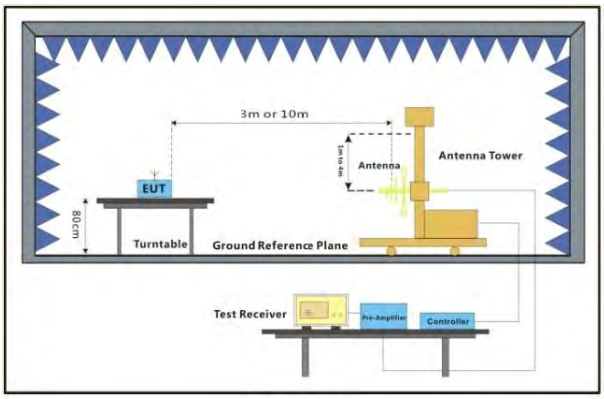
7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 25.2 °C Humidity: 45.3 % RH Atmospheric Pressure: 1010 mbar

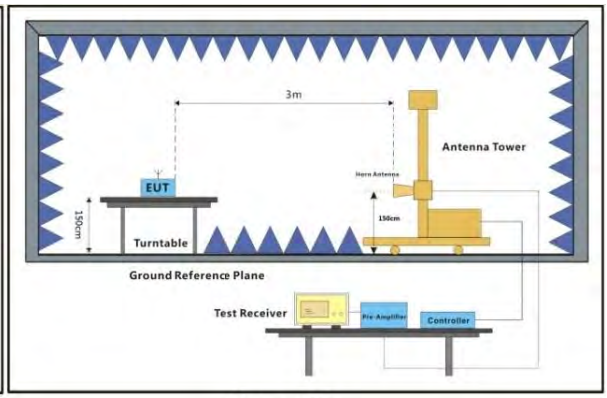
7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



30MHz-1GHz

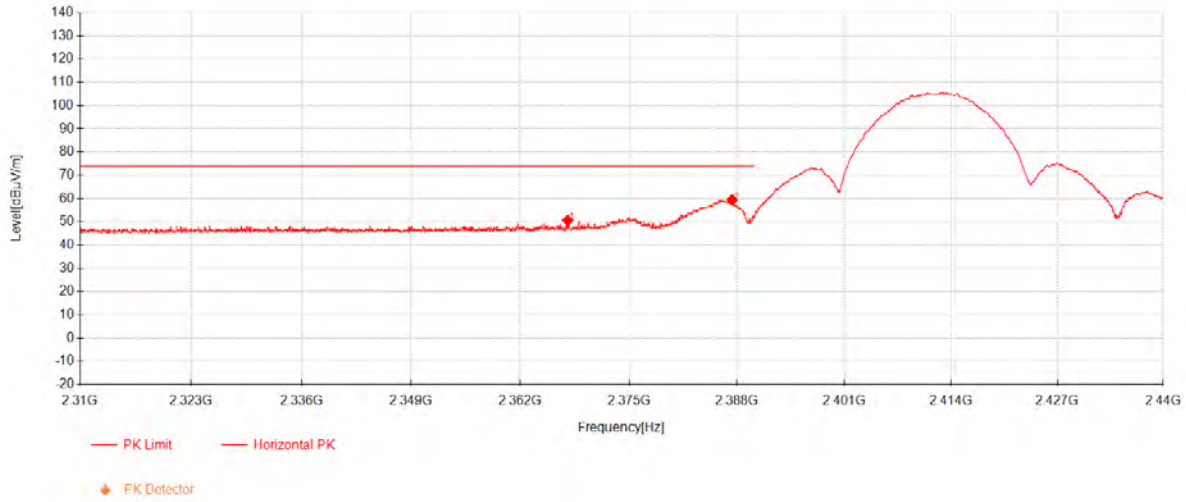


Above 1GHz

7.2.4 Measurement Procedure and Data

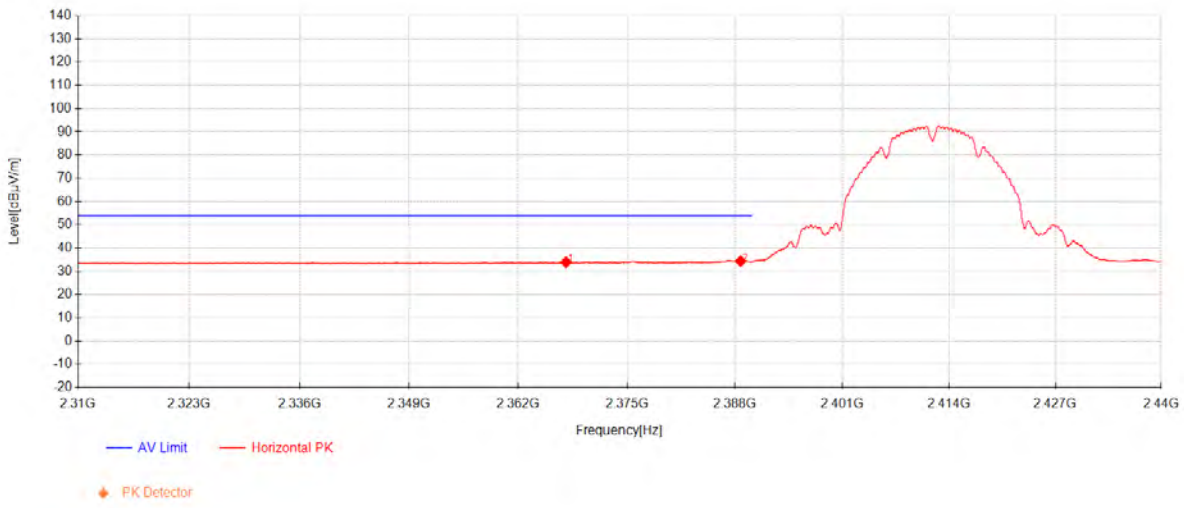
a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
j. Repeat above procedures until all frequencies measured was complete.
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
Note:
1. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
2. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ⩾1/T (Duty cycle＜98%) or 10Hz (Duty cycle⩾98%) for Average detection (AV) at frequency above 1GHz.

802.11b_Channel 01



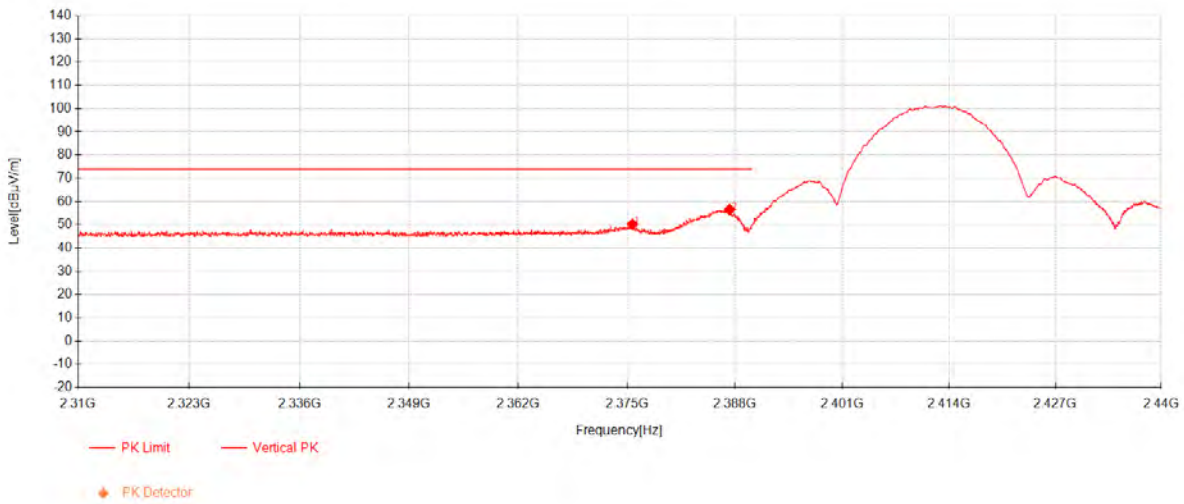
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2367.655	45.97	27.11	-22.45	50.62	74.00	23.38	Horizontal
2	2387.415	54.64	27.15	-22.40	59.39	74.00	14.61	Horizontal

802.11b_Channel 01



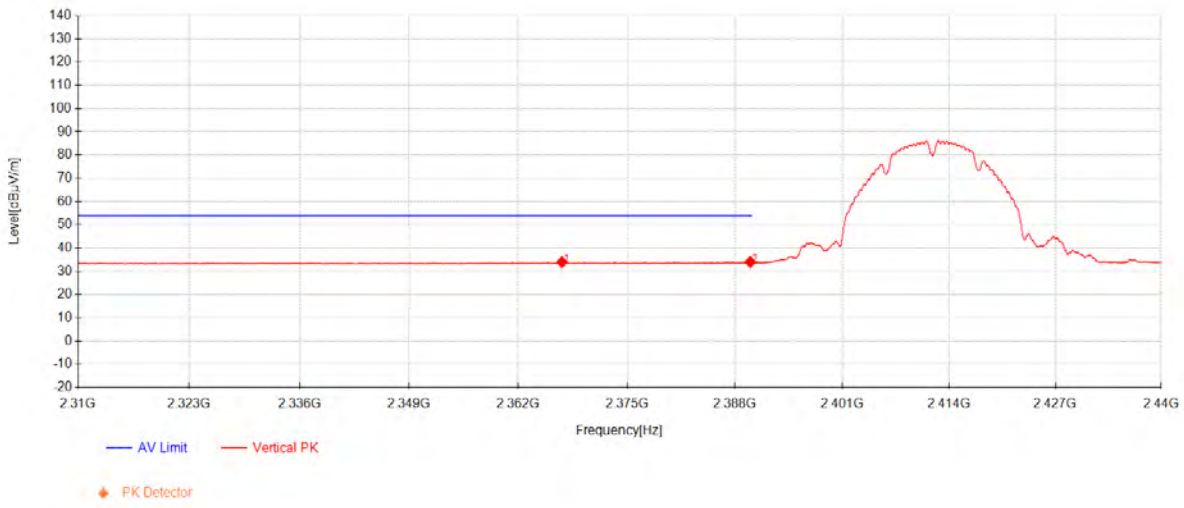
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2367.6875	29.28	27.11	-22.45	33.93	54.00	20.07	Horizontal
2	2388.6825	29.61	27.16	-22.40	34.37	54.00	19.63	Horizontal

802.11b_Channel 01



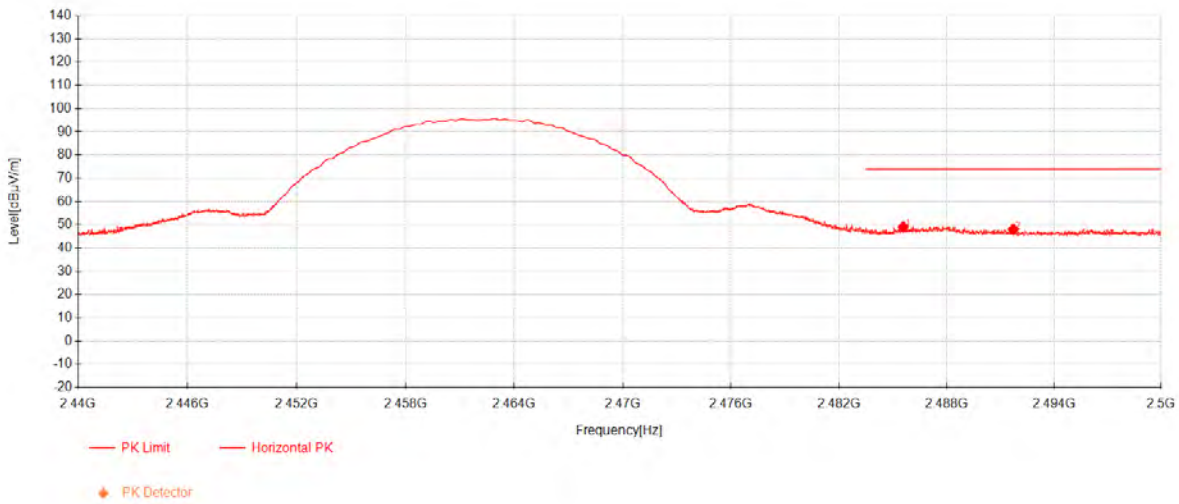
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2375.65	45.48	27.13	-22.43	50.17	74.00	23.83	Vertical
2	2387.35	51.79	27.15	-22.40	56.54	74.00	17.46	Vertical

802.11b_Channel 01



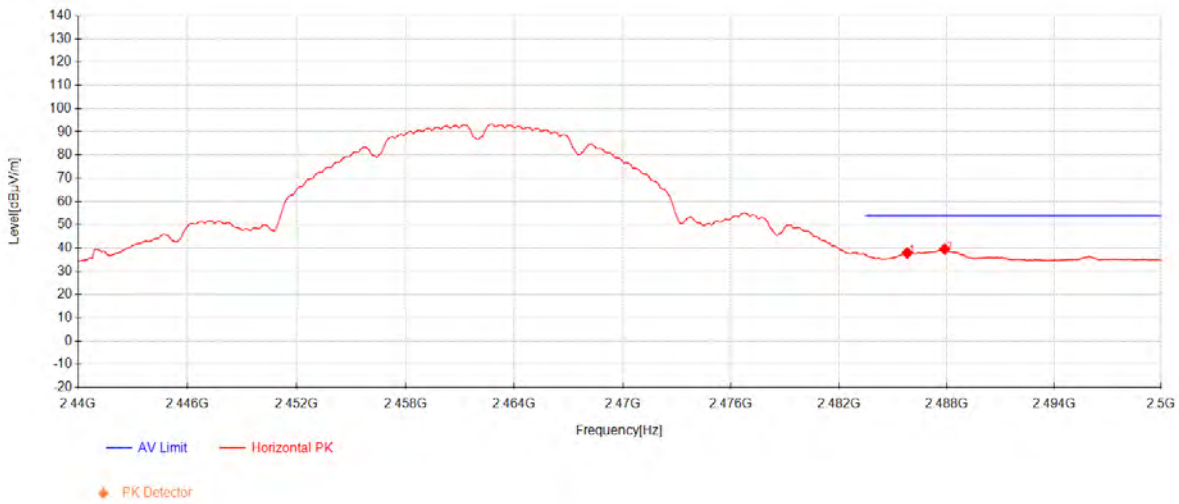
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2367.2	29.30	27.11	-22.46	33.95	54.00	20.05	Vertical
2	2389.8525	29.26	27.16	-22.40	34.02	54.00	19.98	Vertical

802.11b_Channel 11



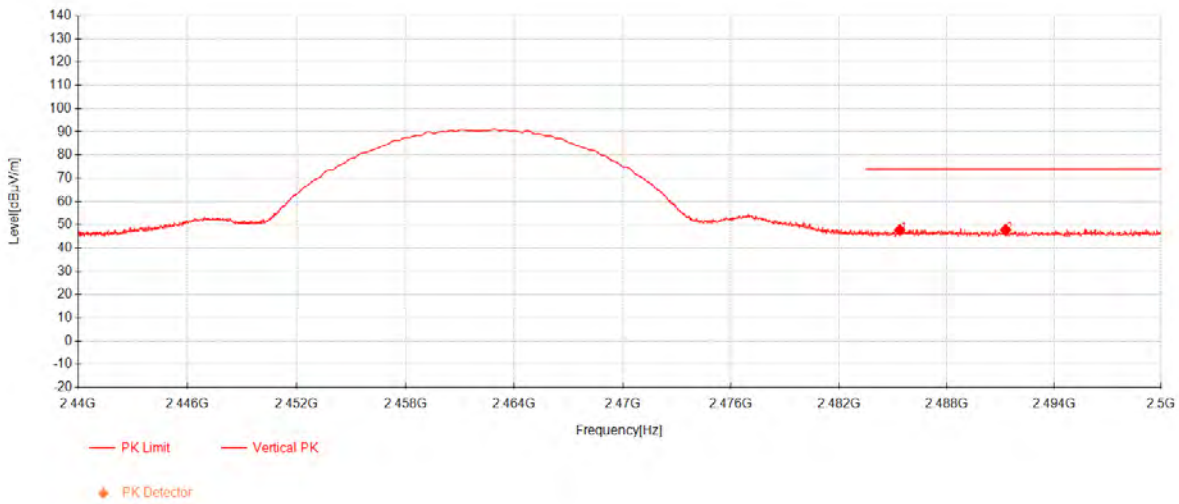
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2485.585	43.94	27.37	-22.29	49.02	74.00	24.98	Horizontal
2	2491.72	42.92	27.38	-22.29	48.01	74.00	25.99	Horizontal

802.11b_Channel 11



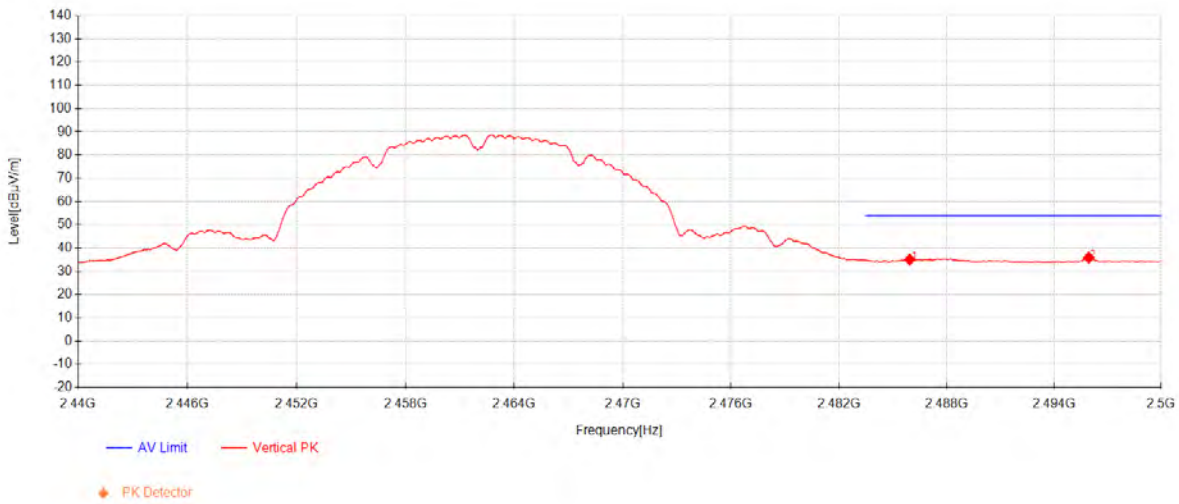
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2485.81	32.76	27.37	-22.29	37.84	54.00	16.16	Horizontal
2	2487.895	34.45	27.37	-22.29	39.53	54.00	14.47	Horizontal

802.11b_Channel 11



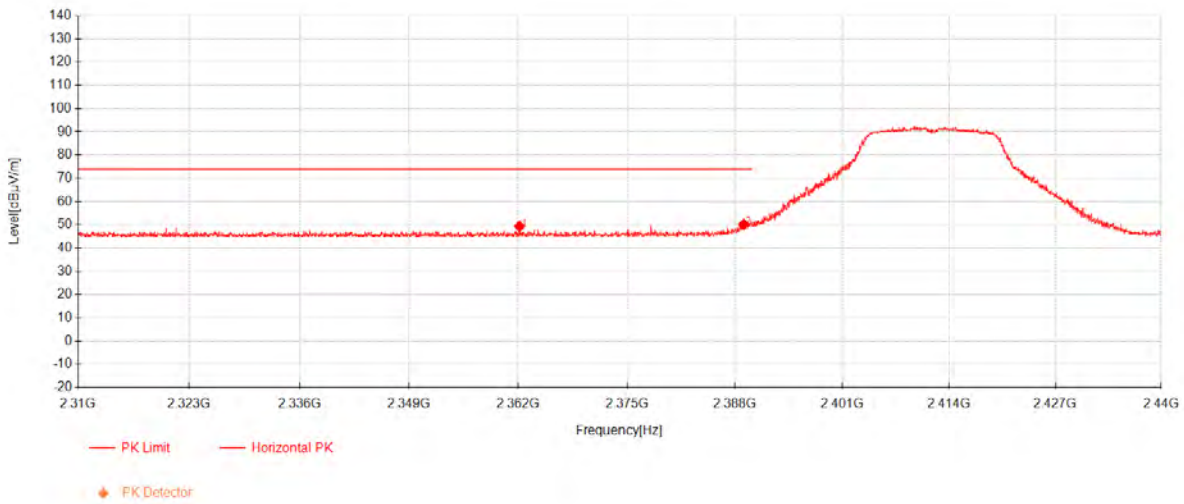
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2485.39	42.65	27.37	-22.29	47.72	74.00	26.28	Vertical
2	2491.3	42.69	27.38	-22.29	47.78	74.00	26.22	Vertical

802.11b_Channel 11



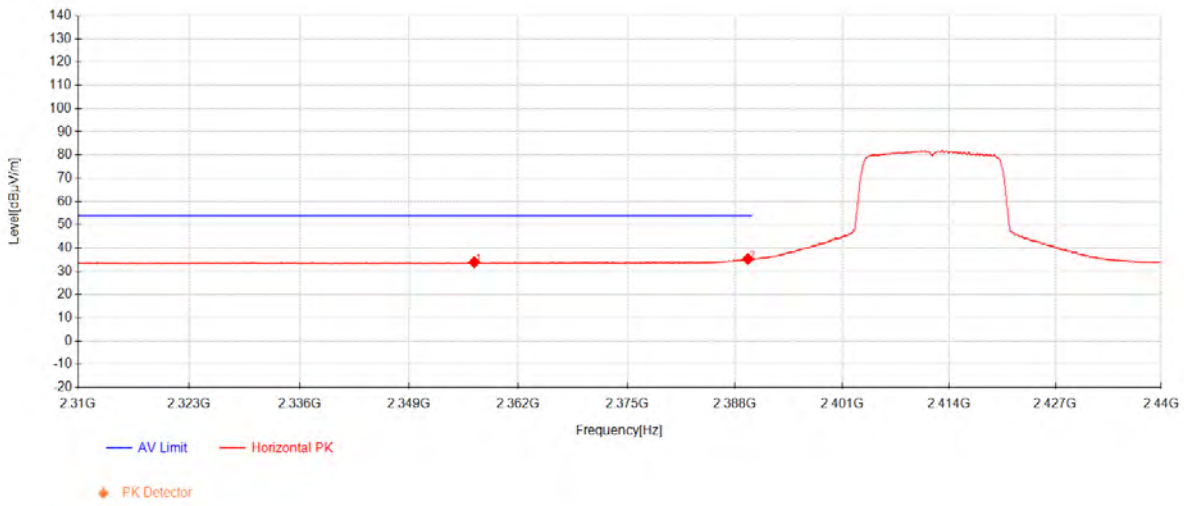
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2485.945	29.95	27.37	-22.29	35.03	54.00	18.97	Vertical
2	2495.95	30.74	27.39	-22.28	35.85	54.00	18.15	Vertical

802.11g_Channel 01



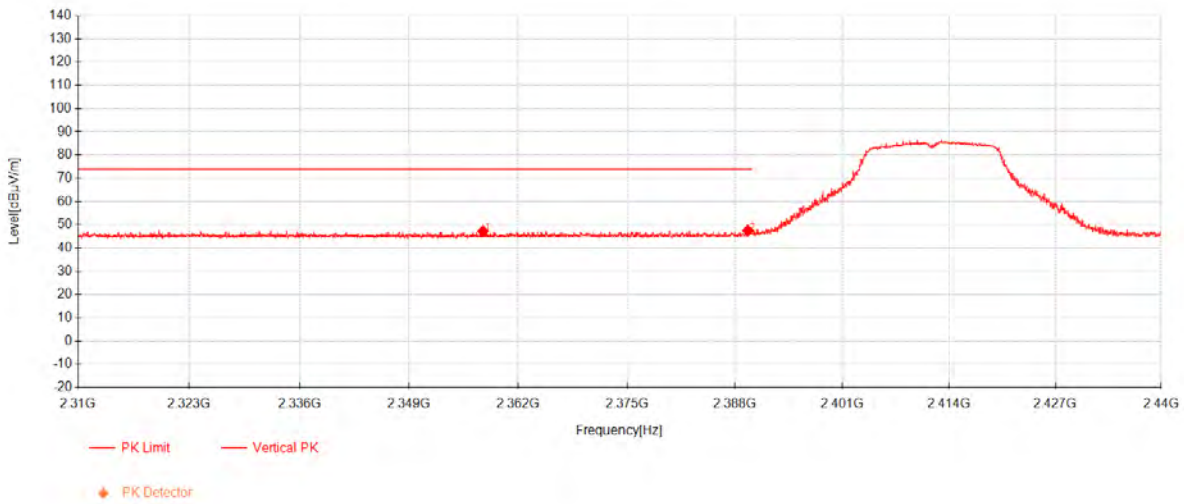
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2362.13	44.64	27.10	-22.47	49.27	74.00	24.73	Horizontal
2	2389.0725	45.39	27.16	-22.40	50.15	74.00	23.85	Horizontal

802.11g_Channel 01



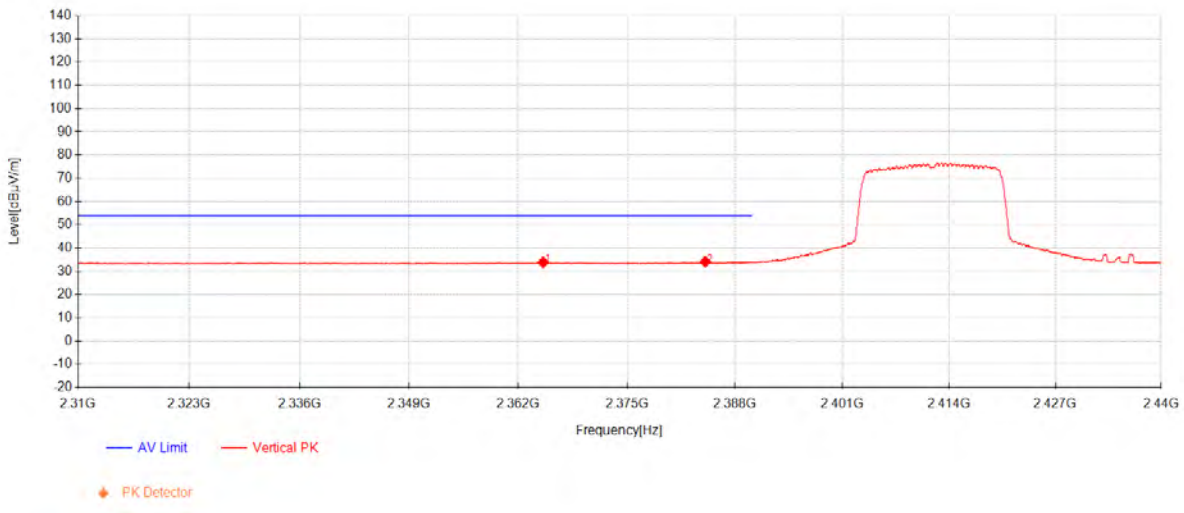
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2356.735	29.31	27.08	-22.48	33.91	54.00	20.09	Horizontal
2	2389.56	30.51	27.16	-22.40	35.27	54.00	18.73	Horizontal

802.11g_Channel 01



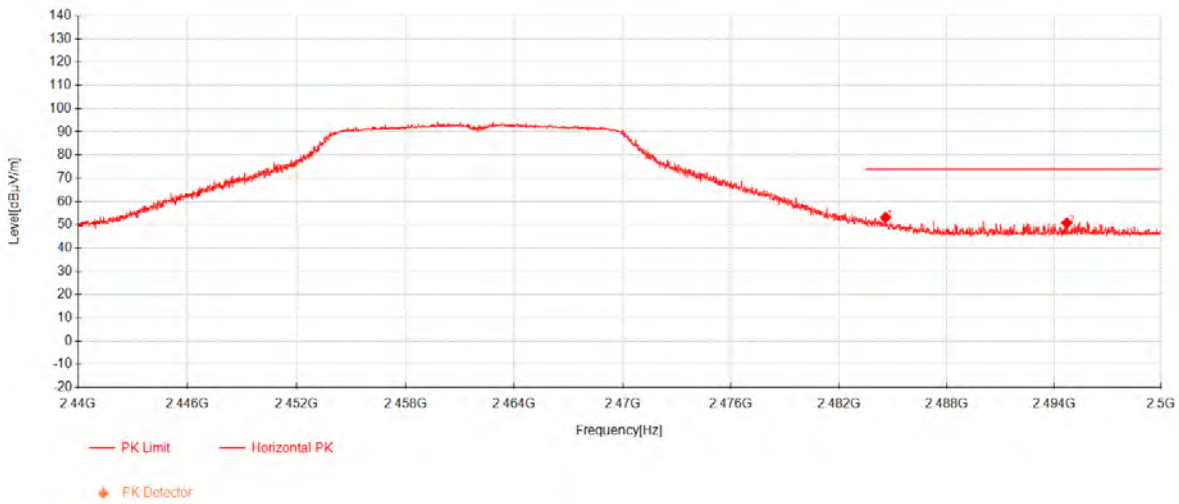
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2357.775	42.60	27.09	-22.48	47.21	74.00	26.79	Vertical
2	2389.56	42.73	27.16	-22.40	47.49	74.00	26.51	Vertical

802.11g_Channel 01



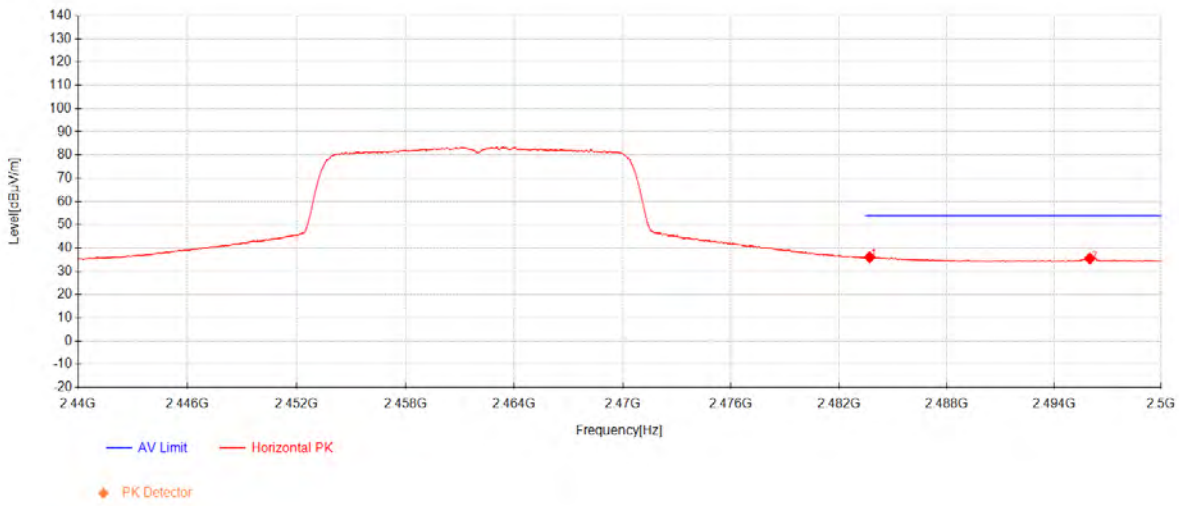
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2364.9575	29.24	27.10	-22.46	33.88	54.00	20.12	Vertical
2	2384.425	29.39	27.15	-22.41	34.13	54.00	19.87	Vertical

802.11g_Channel 11



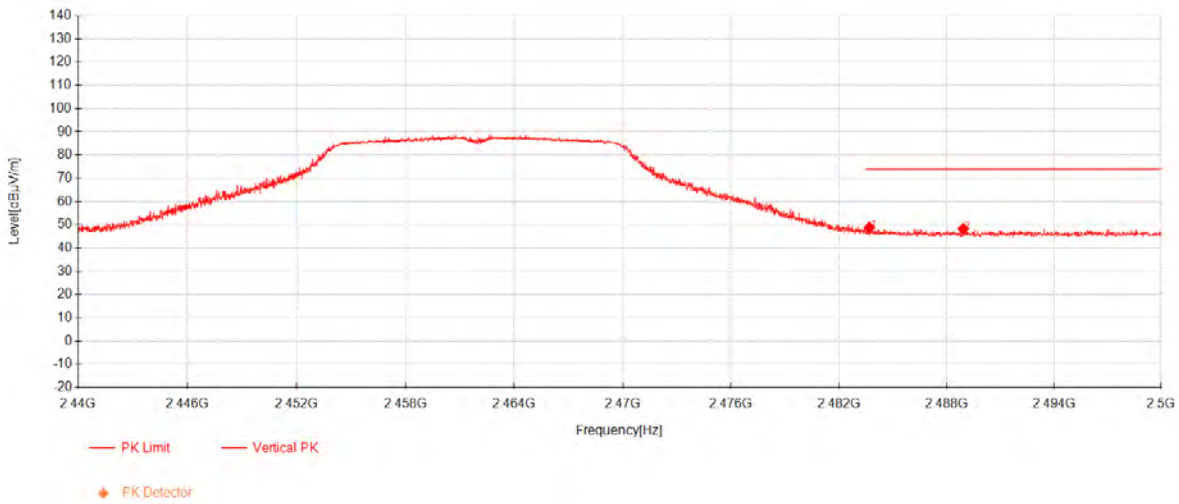
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.595	48.11	27.37	-22.29	53.18	74.00	20.82	Horizontal
2	2494.72	45.69	27.39	-22.28	50.79	74.00	23.21	Horizontal

802.11g_Channel 11



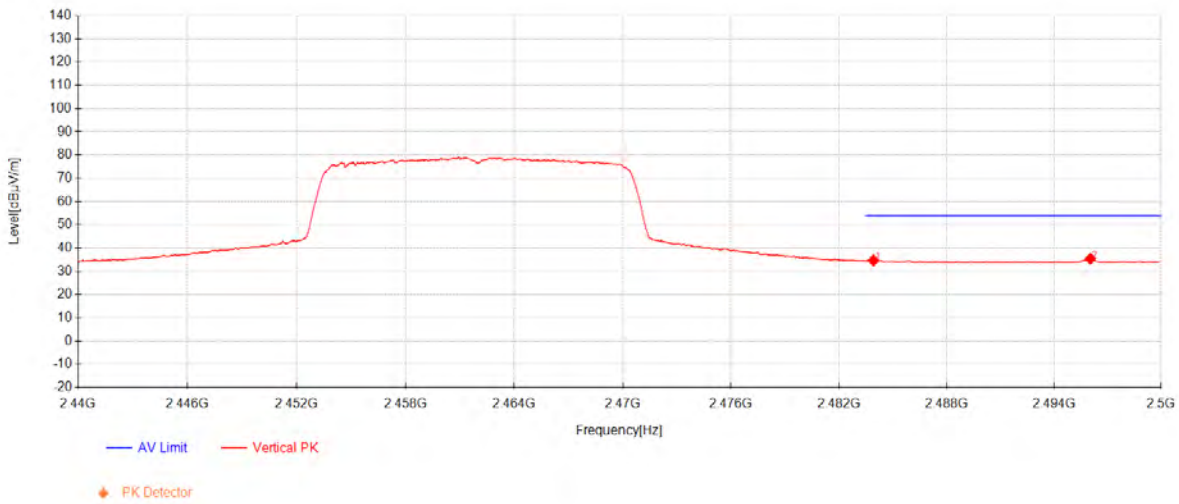
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.71	30.95	27.36	-22.29	36.02	54.00	17.98	Horizontal
2	2496.01	30.39	27.39	-22.28	35.50	54.00	18.50	Horizontal

802.11g_Channel 11



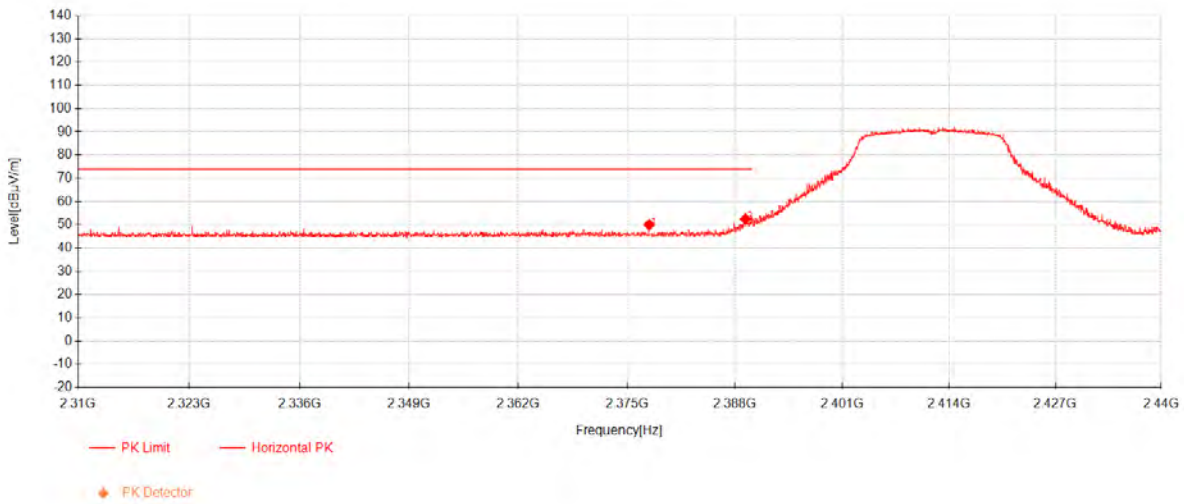
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.695	43.72	27.36	-22.29	48.79	74.00	25.21	Vertical
2	2488.93	43.13	27.38	-22.29	48.22	74.00	25.78	Vertical

802.11g_Channel 11



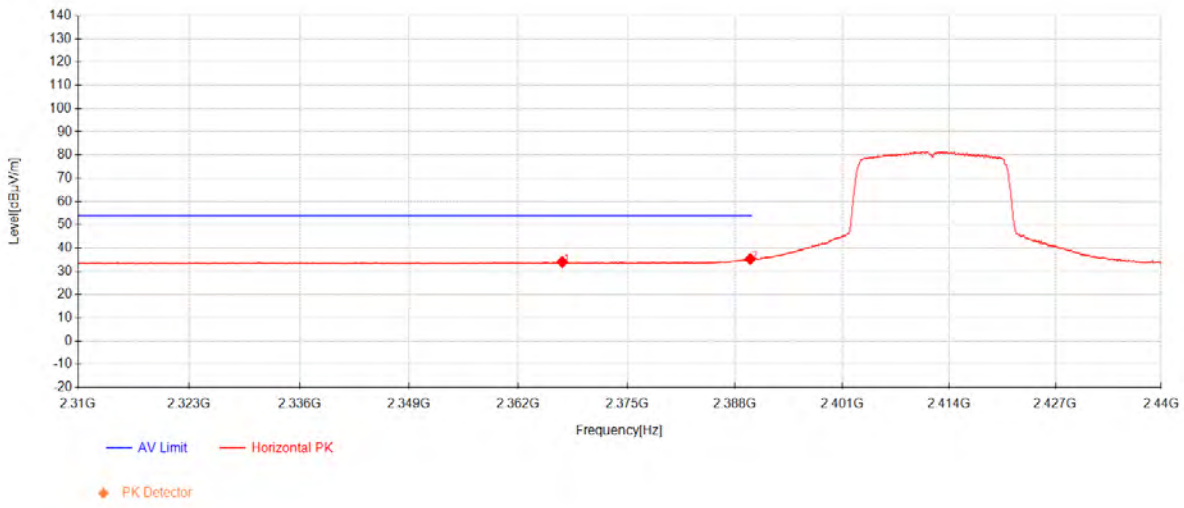
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.92	29.59	27.36	-22.29	34.66	54.00	19.34	Vertical
2	2496.04	30.29	27.39	-22.28	35.40	54.00	18.60	Vertical

802.11n20_Channel 01



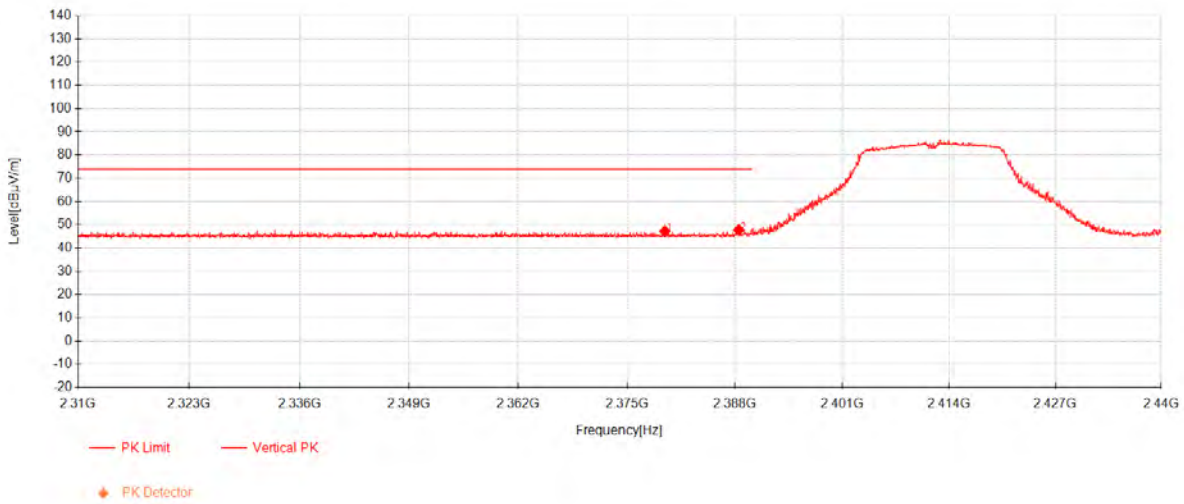
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2377.665	45.28	27.13	-22.43	49.98	74.00	24.02	Horizontal
2	2389.2675	47.73	27.16	-22.40	52.49	74.00	21.51	Horizontal

802.11n20_Channel 01



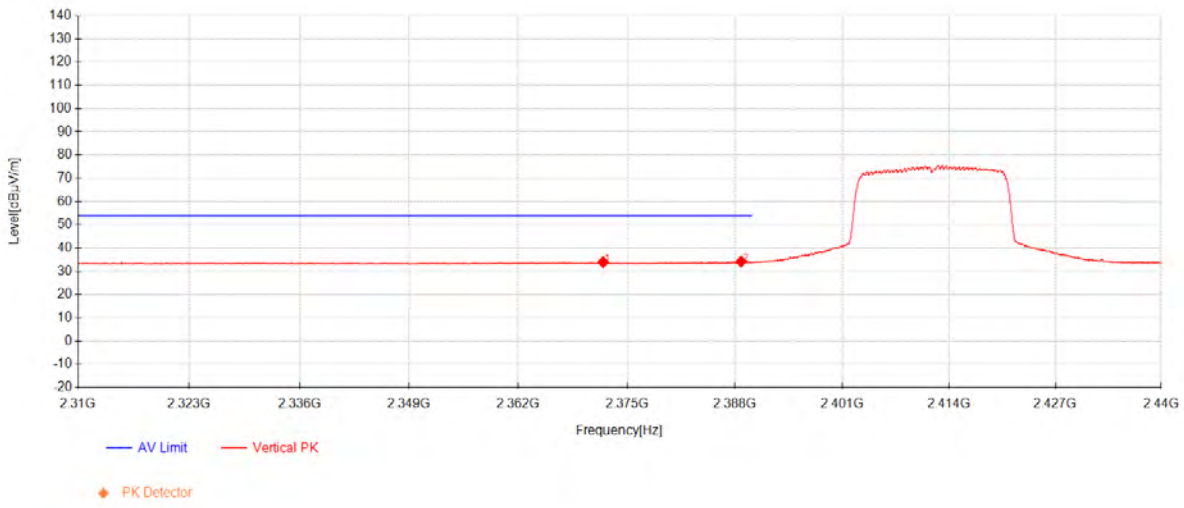
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2367.2325	29.33	27.11	-22.46	33.98	54.00	20.02	Horizontal
2	2389.8525	30.50	27.16	-22.40	35.26	54.00	18.74	Horizontal

802.11n20_Channel 01



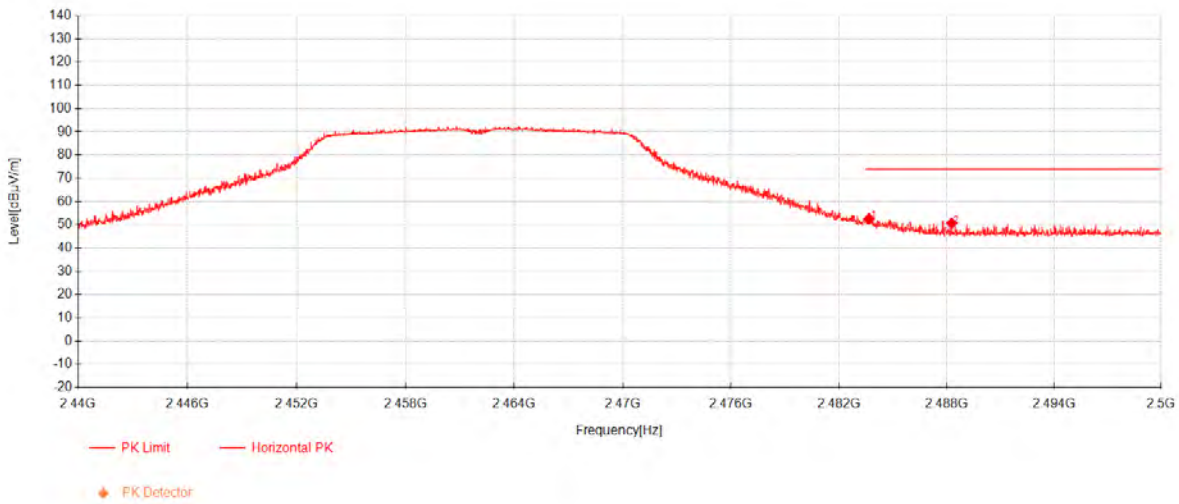
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2379.55	42.47	27.14	-22.42	47.18	74.00	26.82	Vertical
2	2388.455	42.97	27.15	-22.40	47.72	74.00	26.28	Vertical

802.11n20_Channel 01



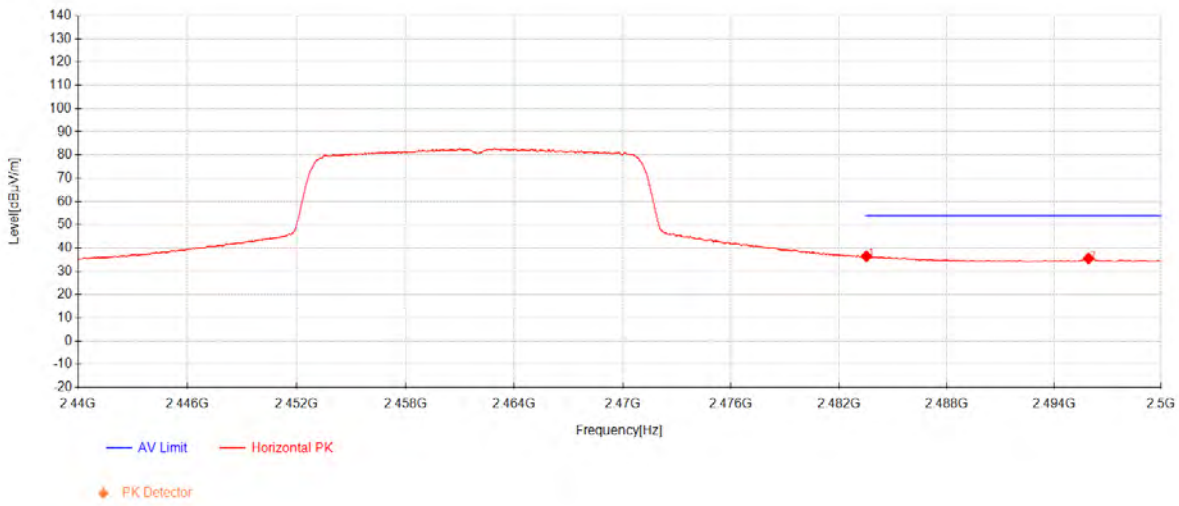
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2372.14	29.26	27.12	-22.44	33.94	54.00	20.06	Vertical
2	2388.7475	29.43	27.16	-22.40	34.19	54.00	19.81	Vertical

802.11n20_Channel 11



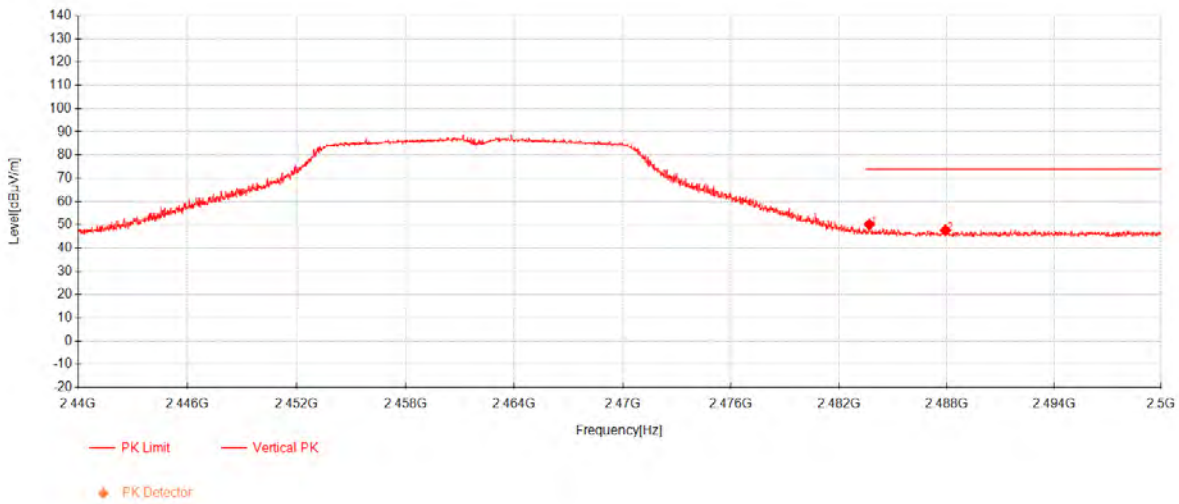
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.68	47.54	27.36	-22.29	52.61	74.00	21.39	Horizontal
2	2488.285	45.54	27.37	-22.29	50.62	74.00	23.38	Horizontal

802.11n20_Channel 11



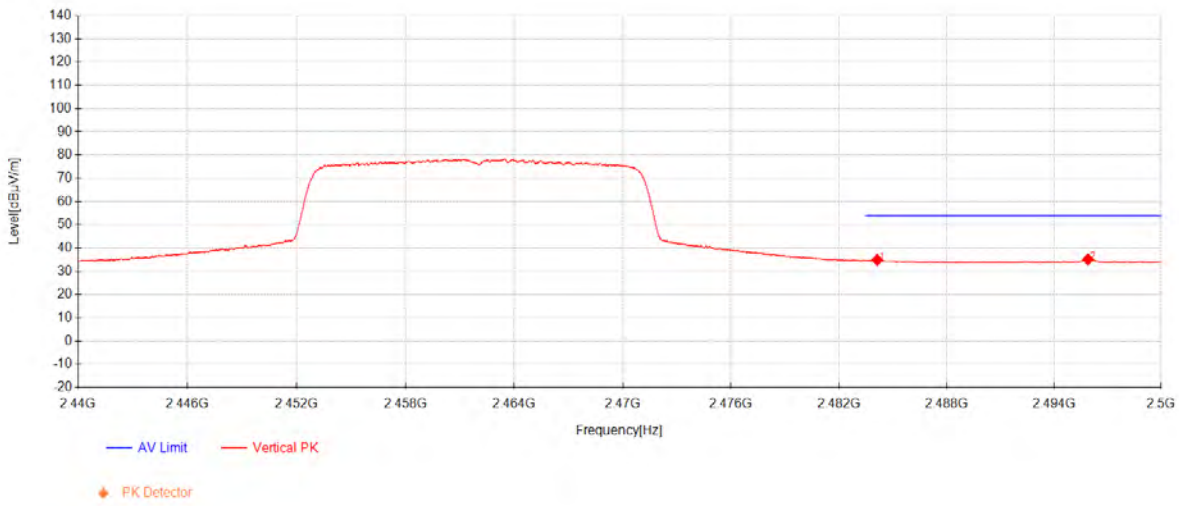
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.53	31.35	27.36	-22.29	36.42	54.00	17.58	Horizontal
2	2495.935	30.39	27.39	-22.28	35.50	54.00	18.50	Horizontal

802.11n20_Channel 11



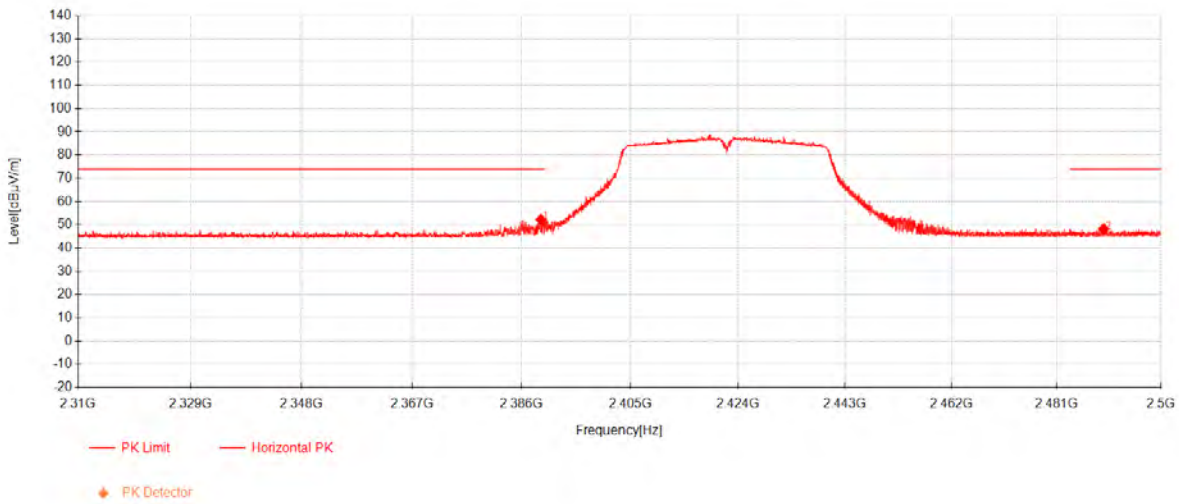
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.695	45.05	27.36	-22.29	50.12	74.00	23.88	Vertical
2	2487.94	42.52	27.37	-22.29	47.60	74.00	26.40	Vertical

802.11n20_Channel 11



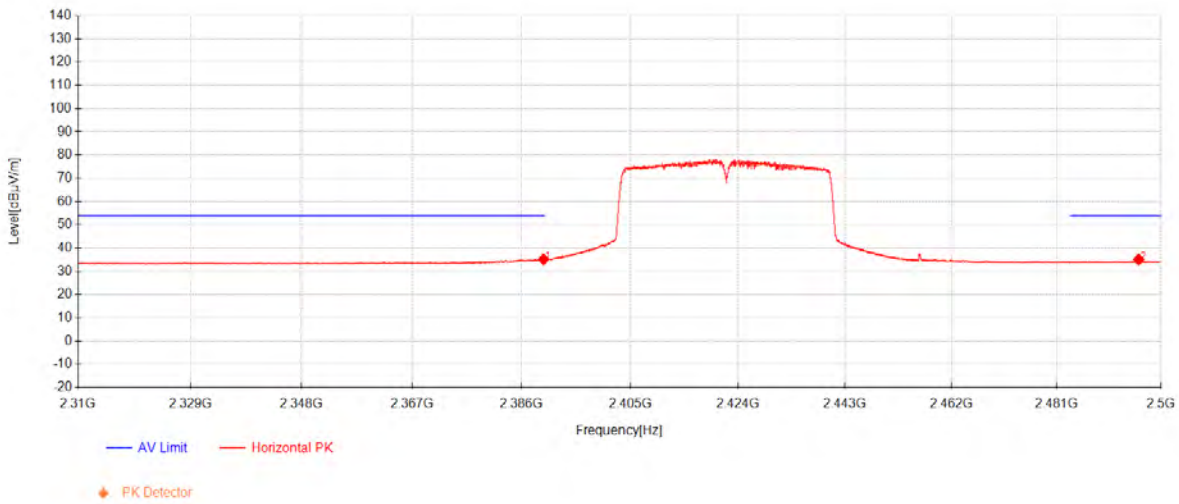
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.13	29.80	27.37	-22.29	34.87	54.00	19.13	Vertical
2	2495.905	30.02	27.39	-22.28	35.13	54.00	18.87	Vertical

802.11n40_Channel 03



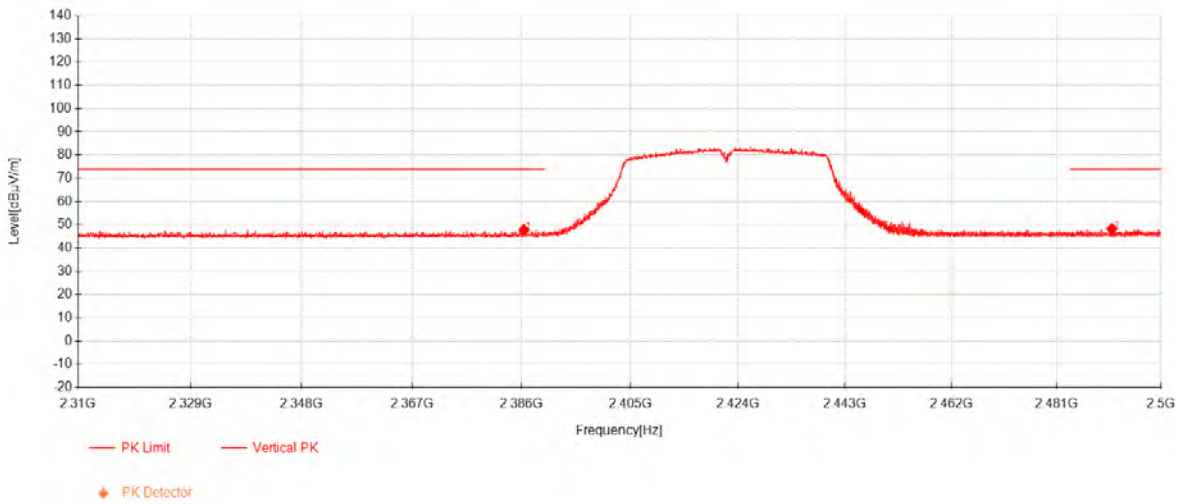
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2389.365	47.46	27.16	-22.40	52.22	74.00	21.78	Horizontal
2	2489.53	43.00	27.38	-22.29	48.09	74.00	25.91	Horizontal

802.11n40_Channel 03



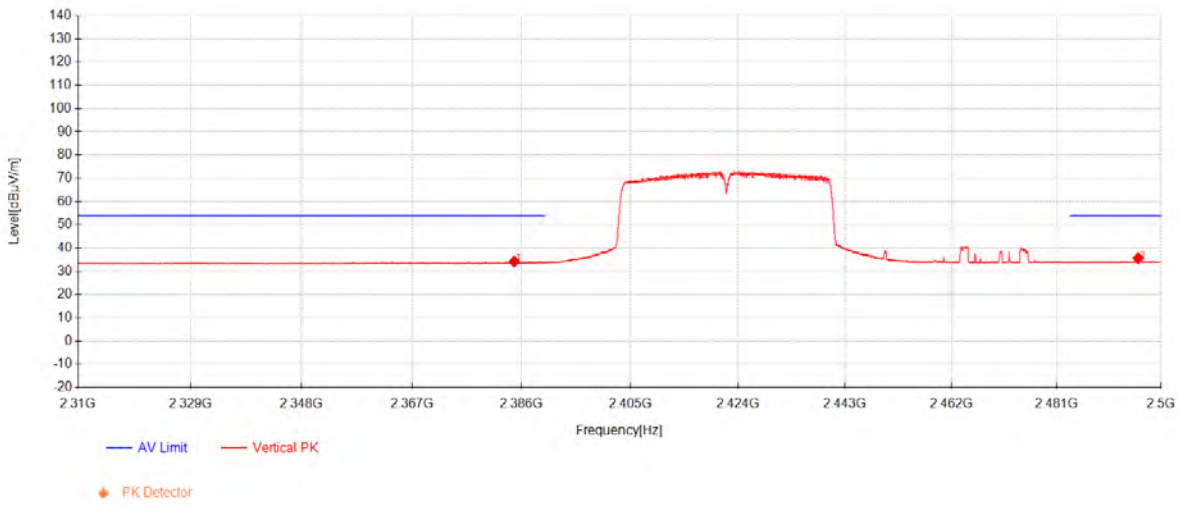
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2389.82	30.38	27.16	-22.40	35.14	54.00	18.86	Horizontal
2	2495.92	29.96	27.39	-22.28	35.07	54.00	18.93	Horizontal

802.11n40_Channel 03



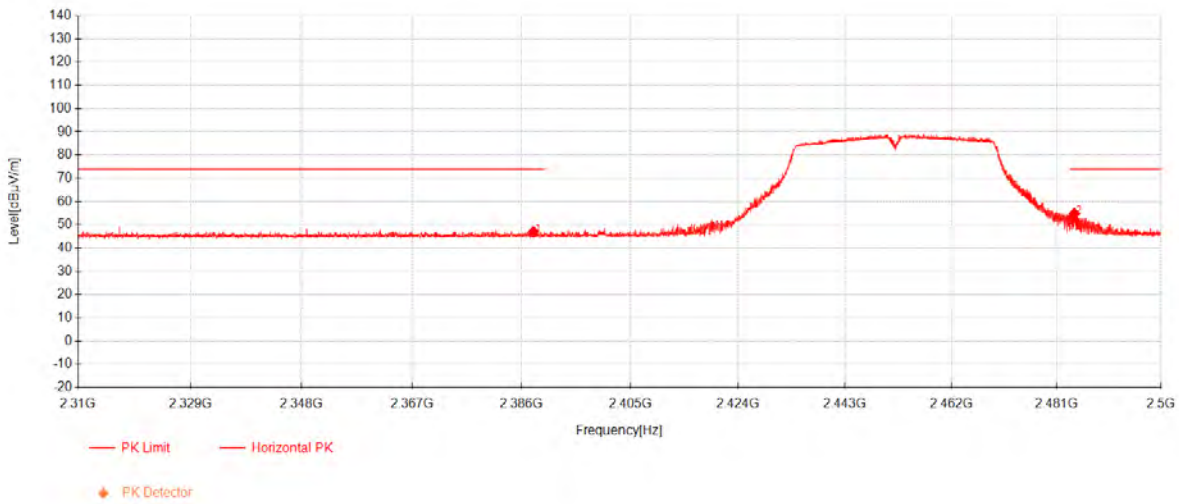
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2386.4075	43.03	27.15	-22.41	47.77	74.00	26.23	Vertical
2	2491.045	43.09	27.38	-22.29	48.18	74.00	25.82	Vertical

802.11n40_Channel 03



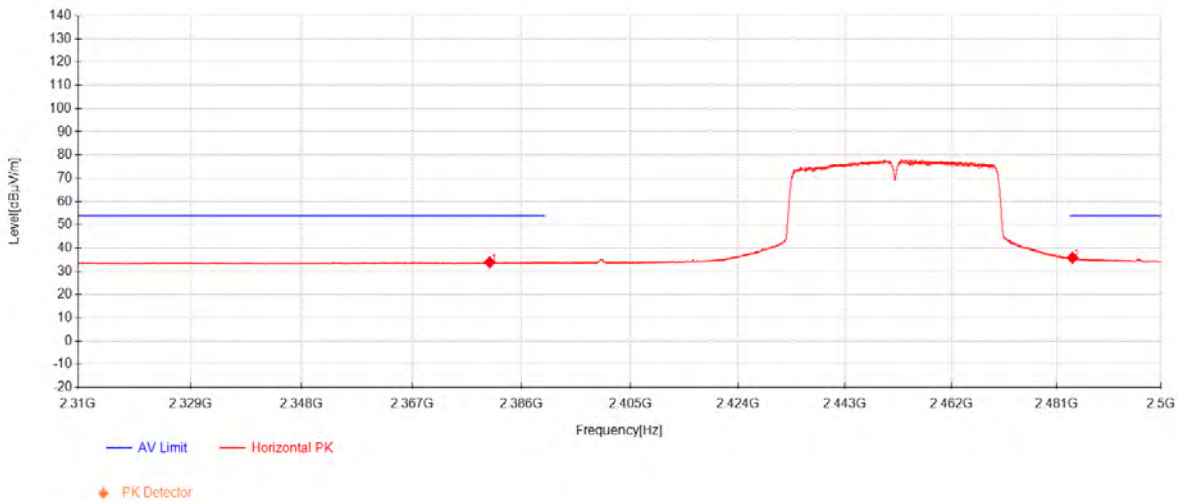
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2384.7175	29.44	27.15	-22.41	34.18	54.00	19.82	Vertical
2	2495.83	30.49	27.39	-22.28	35.60	54.00	18.40	Vertical

802.11n40_Channel 09



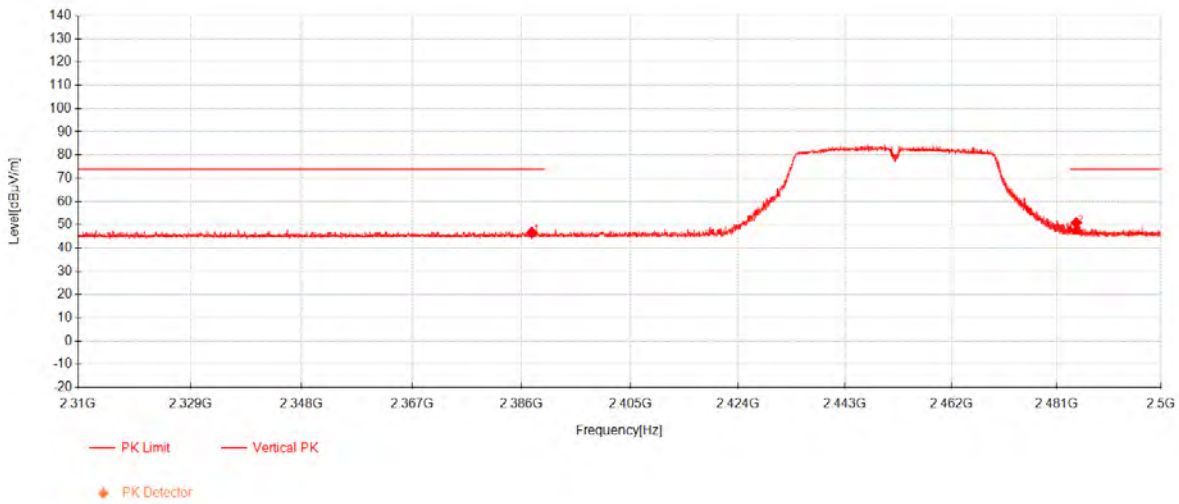
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2388.065	42.20	27.15	-22.40	46.95	74.00	27.05	Horizontal
2	2484.22	49.74	27.37	-22.29	54.81	74.00	19.19	Horizontal

802.11n40_Channel 09



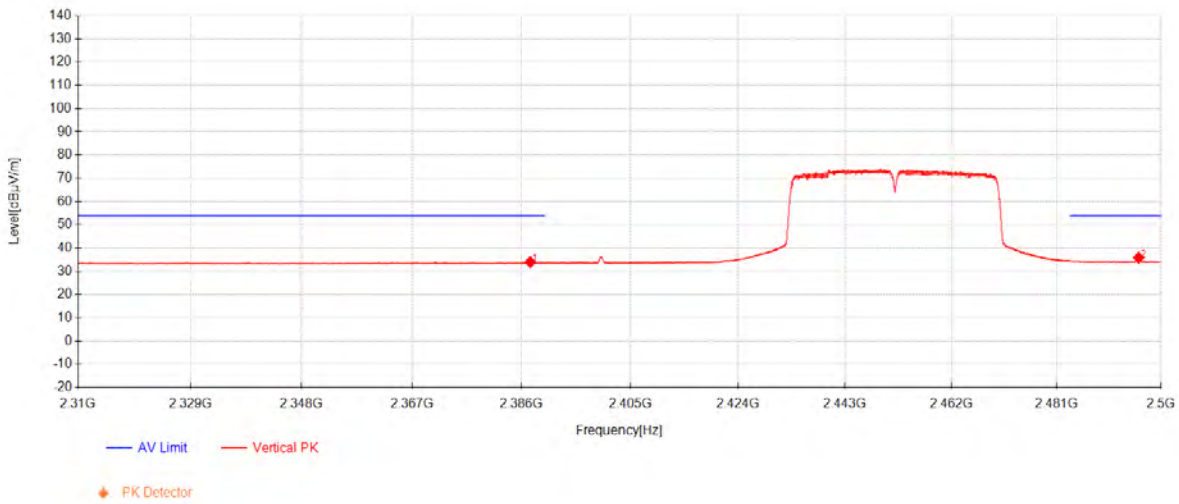
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2380.46	29.17	27.14	-22.42	33.89	54.00	20.11	Horizontal
2	2483.875	30.73	27.36	-22.29	35.80	54.00	18.20	Horizontal

802.11n40_Channel 09



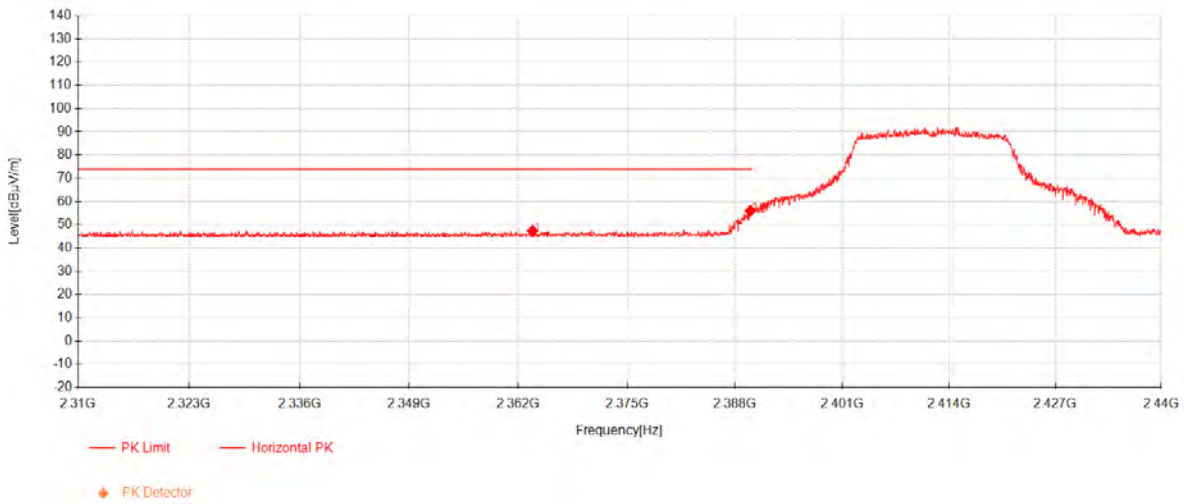
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2387.7725	41.85	27.15	-22.40	46.60	74.00	27.40	Vertical
2	2484.565	45.77	27.37	-22.29	50.84	74.00	23.16	Vertical

802.11n40_Channel 09



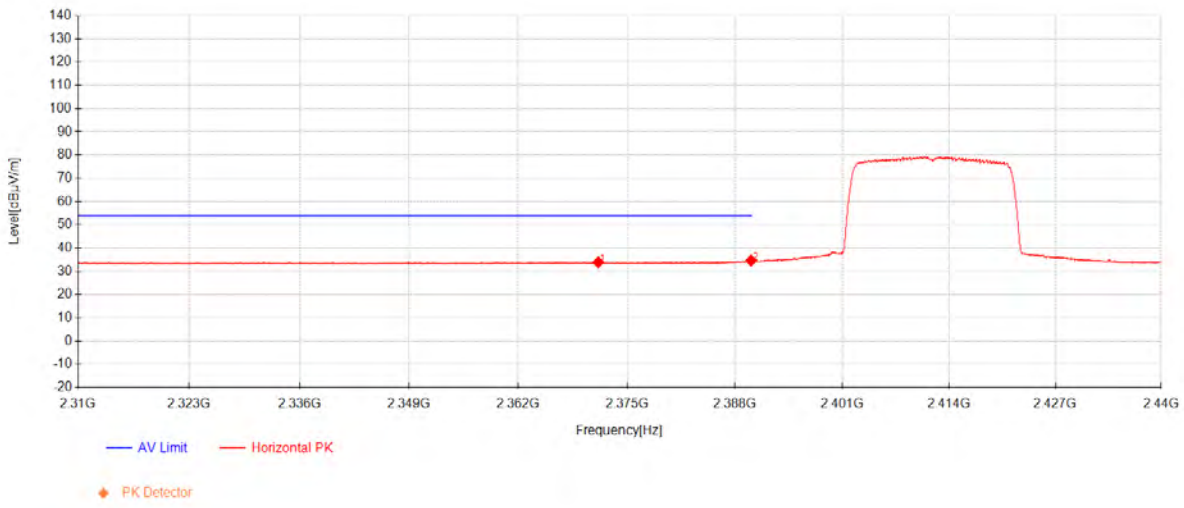
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2387.5125	29.24	27.15	-22.40	33.99	54.00	20.01	Vertical
2	2495.905	30.69	27.39	-22.28	35.80	54.00	18.20	Vertical

802.11ax20_Channel 01



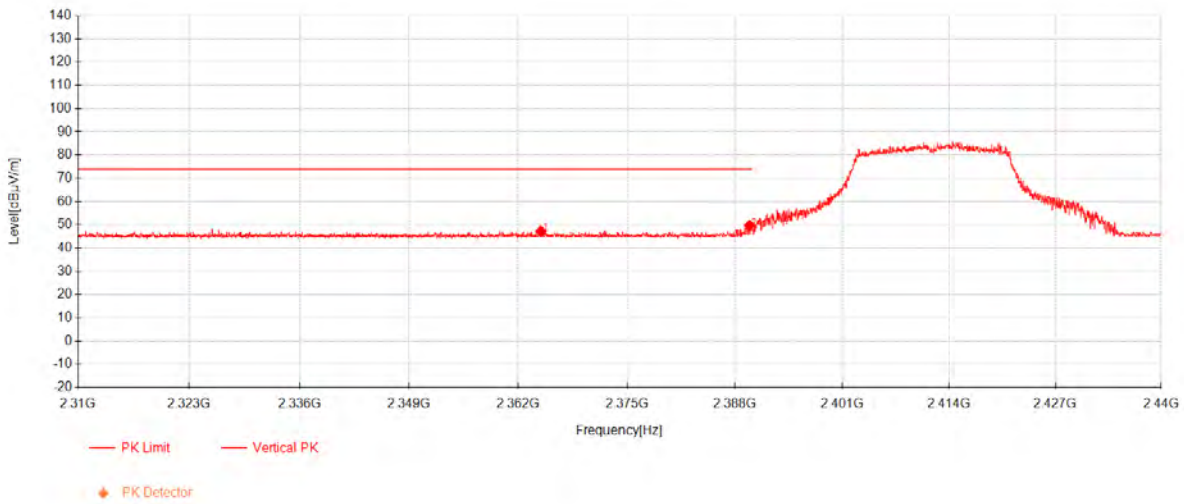
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2363.69	42.67	27.10	-22.46	47.31	74.00	26.69	Horizontal
2	2389.8525	51.25	27.16	-22.40	56.01	74.00	17.99	Horizontal

802.11ax20_Channel 01



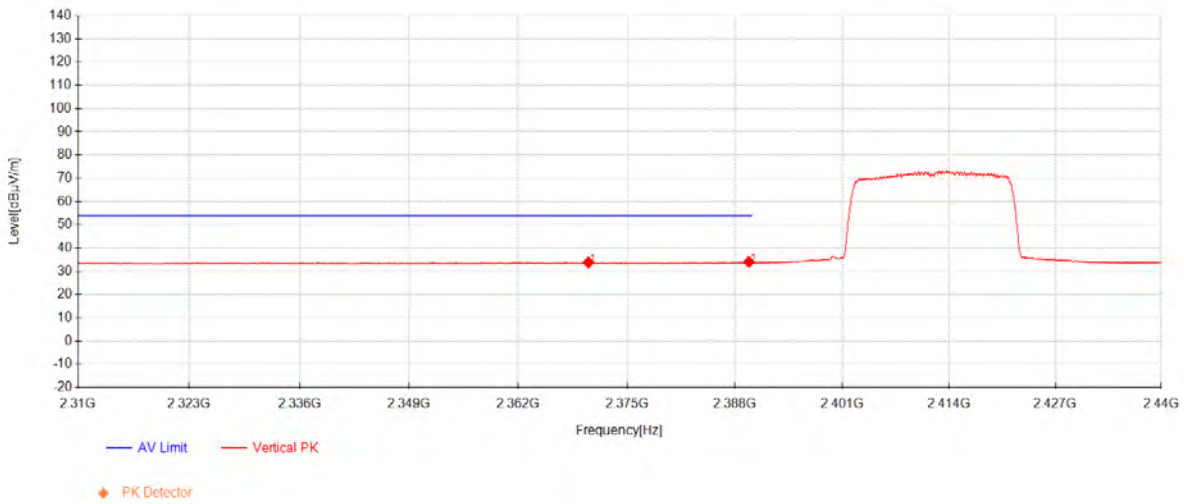
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2371.555	29.21	27.12	-22.44	33.88	54.00	20.12	Horizontal
2	2389.95	29.86	27.16	-22.40	34.62	54.00	19.38	Horizontal

802.11ax20_Channel 01



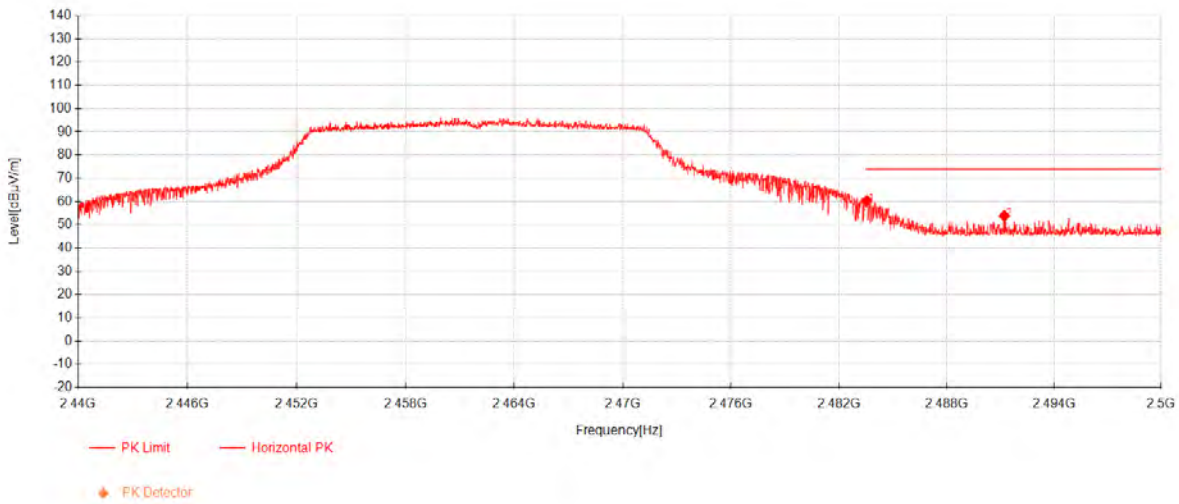
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2364.6975	42.55	27.10	-22.46	47.19	74.00	26.81	Vertical
2	2389.755	44.87	27.16	-22.40	49.63	74.00	24.37	Vertical

802.11ax20_Channel 01



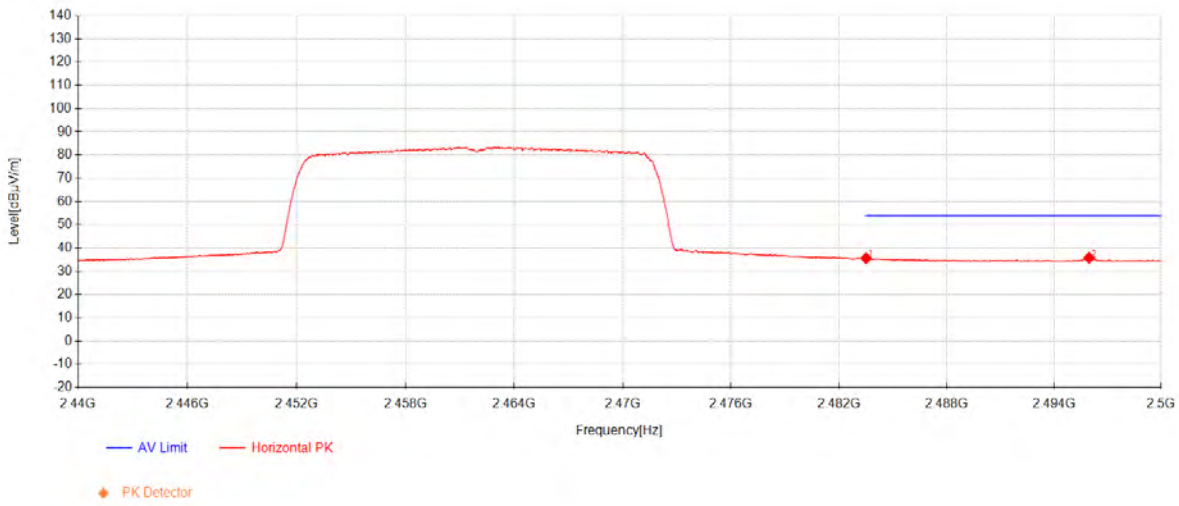
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2370.385	29.18	27.11	-22.45	33.85	54.00	20.15	Vertical
2	2389.69	29.30	27.16	-22.40	34.06	54.00	19.94	Vertical

802.11ax20_Channel 11



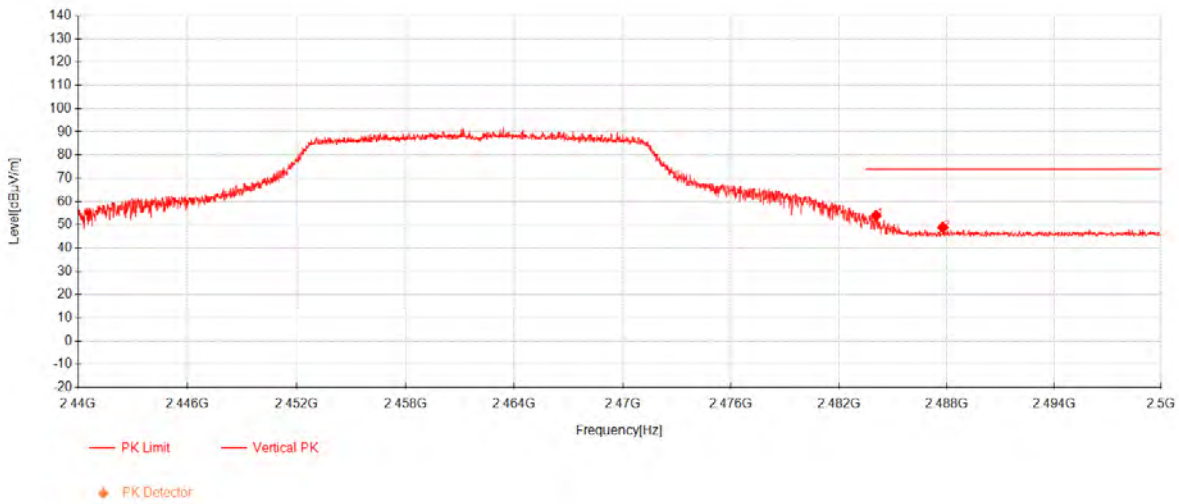
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.56	55.29	27.36	-22.29	60.36	74.00	13.64	Horizontal
2	2491.225	48.79	27.38	-22.29	53.88	74.00	20.12	Horizontal

802.11ax20_Channel 11



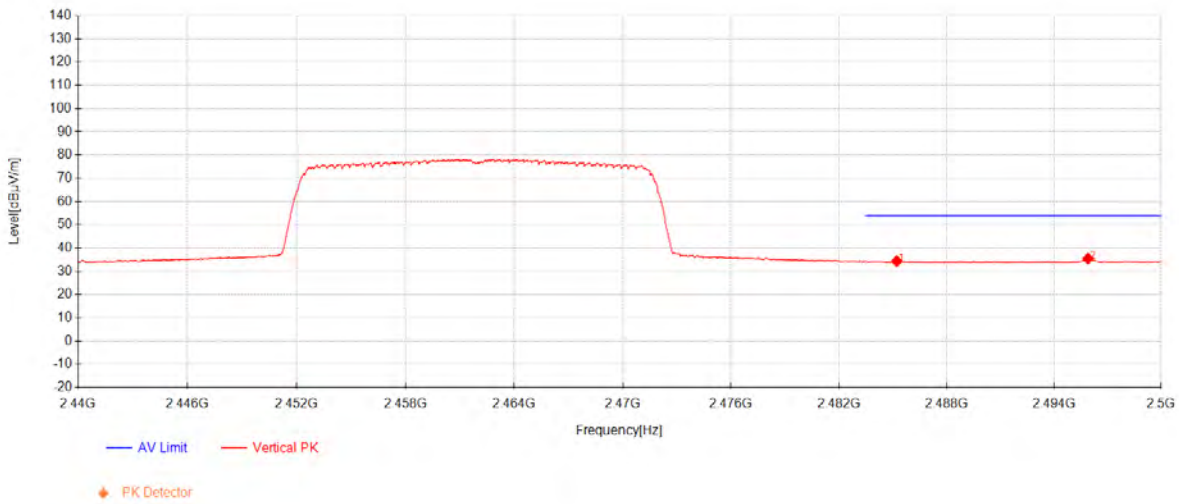
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.515	30.54	27.36	-22.29	35.61	54.00	18.39	Horizontal
2	2495.965	30.67	27.39	-22.28	35.78	54.00	18.22	Horizontal

802.11ax20_Channel 11



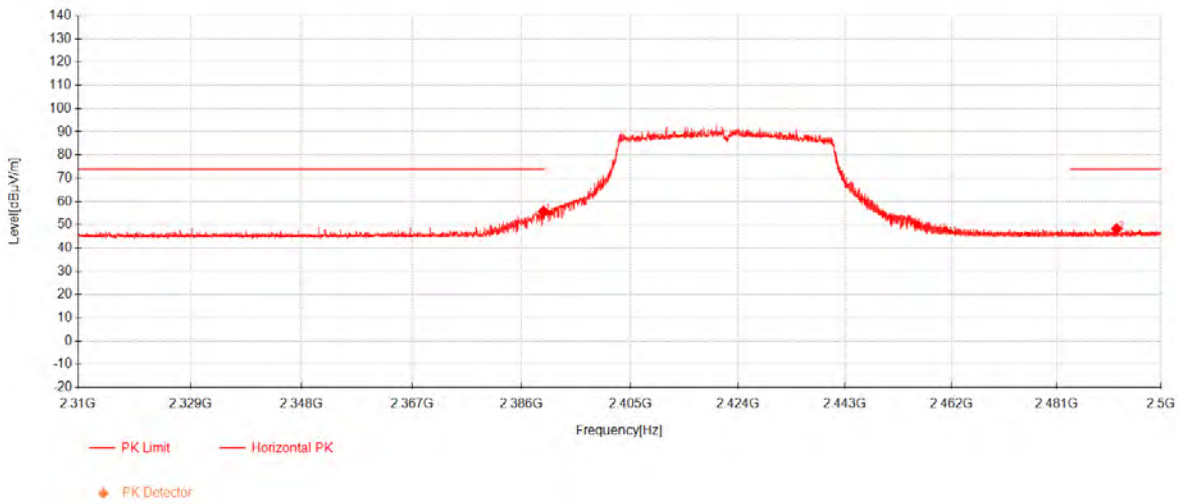
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2484.07	48.90	27.36	-22.29	53.97	74.00	20.03	Vertical
2	2487.79	43.75	27.37	-22.29	48.83	74.00	25.17	Vertical

802.11ax20_Channel 11



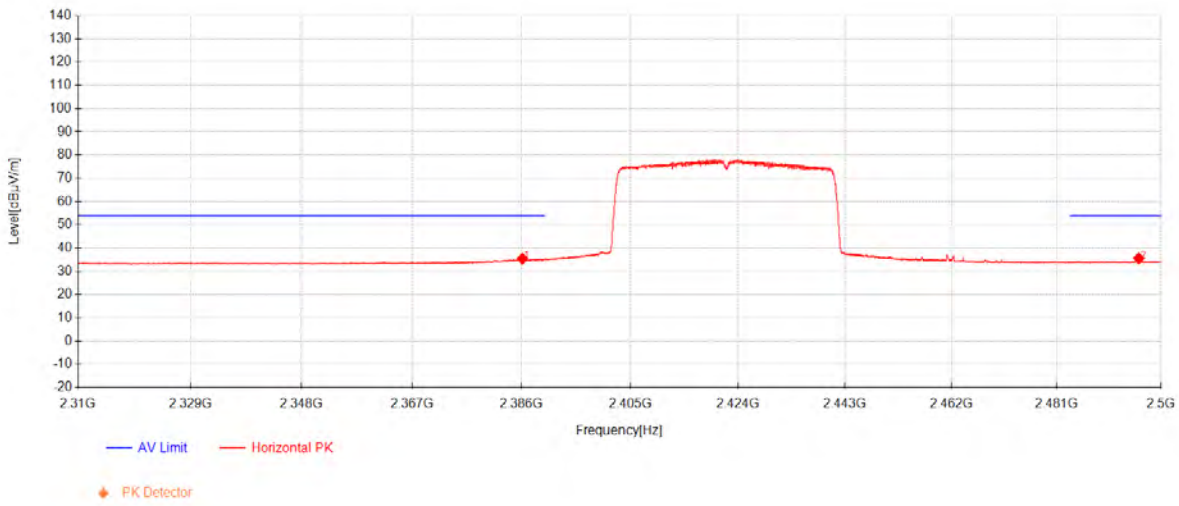
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2485.225	29.30	27.37	-22.29	34.37	54.00	19.63	Vertical
2	2495.905	30.36	27.39	-22.28	35.47	54.00	18.53	Vertical

802.11ax40_Channel 03



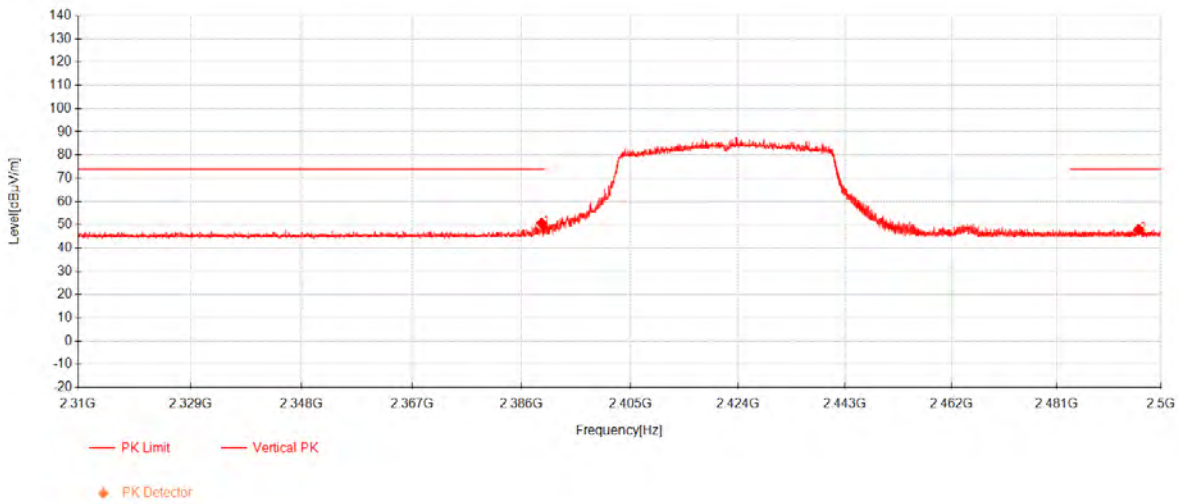
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2389.82	50.92	27.16	-22.40	55.68	74.00	18.32	Horizontal
2	2491.915	43.06	27.38	-22.29	48.15	74.00	25.85	Horizontal

802.11ax40_Channel 03



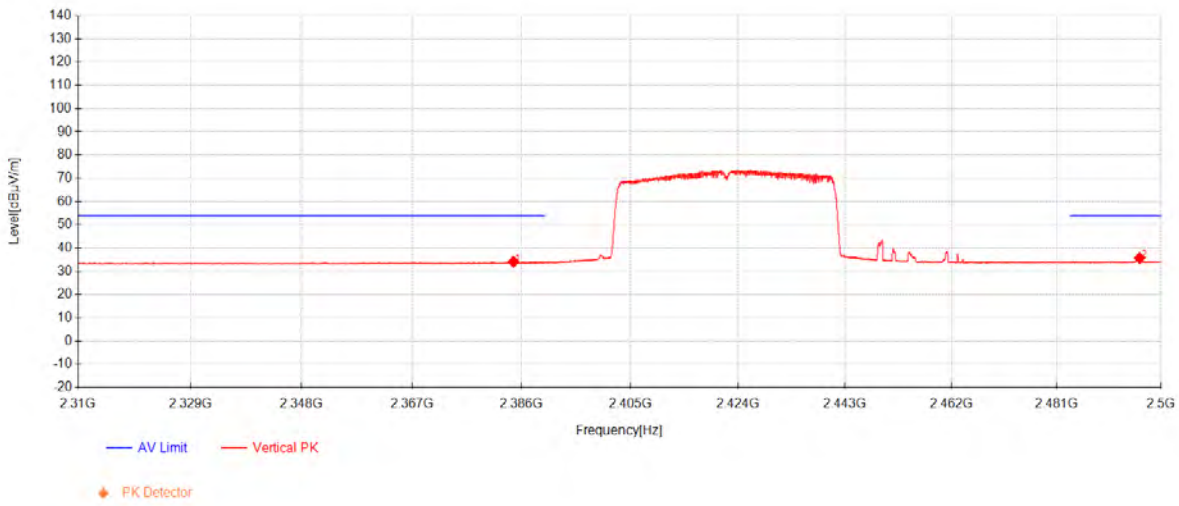
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2386.1475	30.66	27.15	-22.41	35.40	54.00	18.60	Horizontal
2	2495.935	30.44	27.39	-22.28	35.55	54.00	18.45	Horizontal

802.11ax40_Channel 03



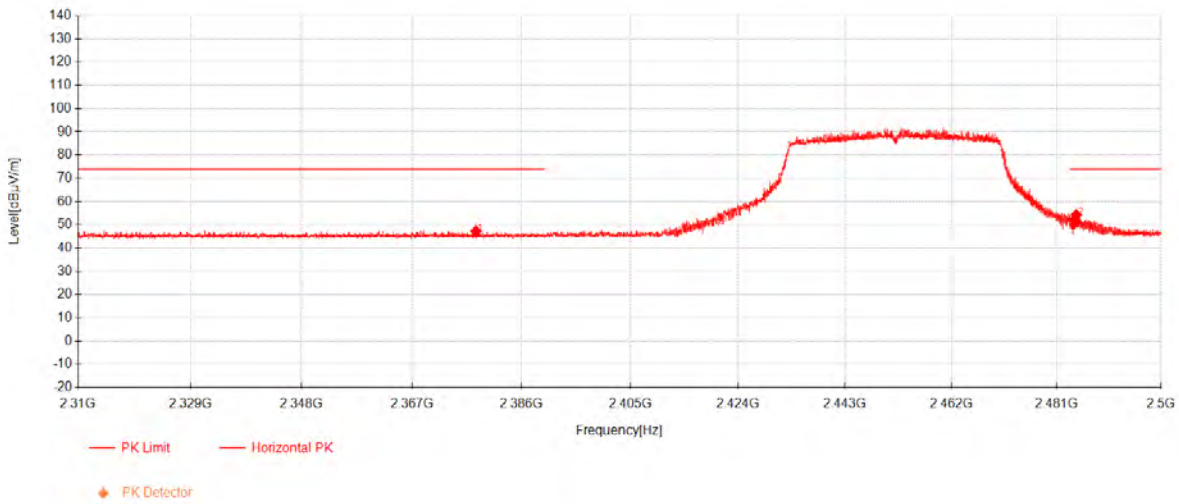
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2389.495	45.90	27.16	-22.40	50.66	74.00	23.34	Vertical
2	2495.905	42.71	27.39	-22.28	47.82	74.00	26.18	Vertical

802.11ax40_Channel 03



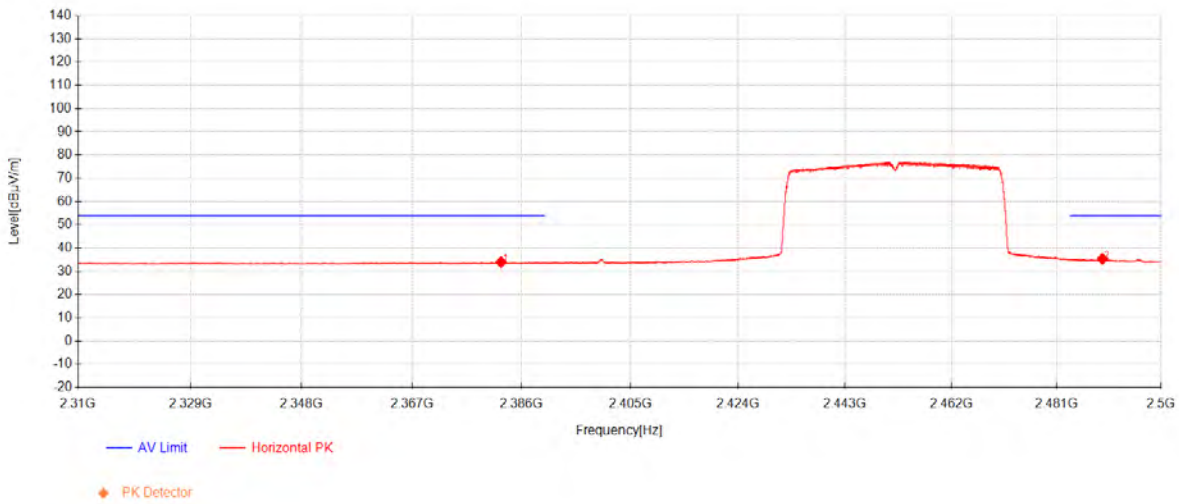
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2384.5875	29.36	27.15	-22.41	34.10	54.00	19.90	Vertical
2	2496.07	30.55	27.39	-22.28	35.66	54.00	18.34	Vertical

802.11ax40_Channel 09



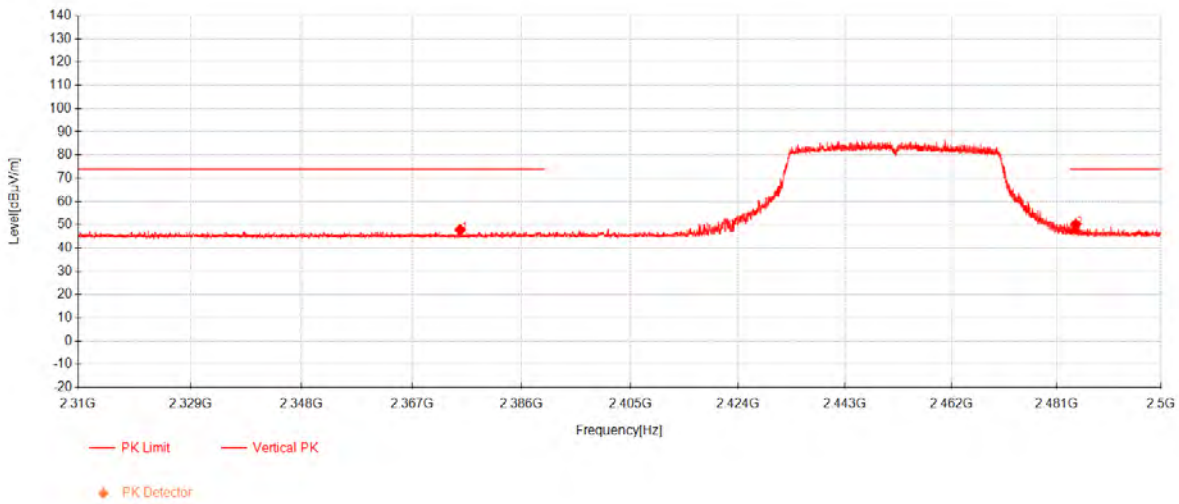
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2378.055	42.46	27.13	-22.43	47.16	74.00	26.84	Horizontal
2	2484.565	49.16	27.37	-22.29	54.23	74.00	19.77	Horizontal

802.11ax40_Channel 09



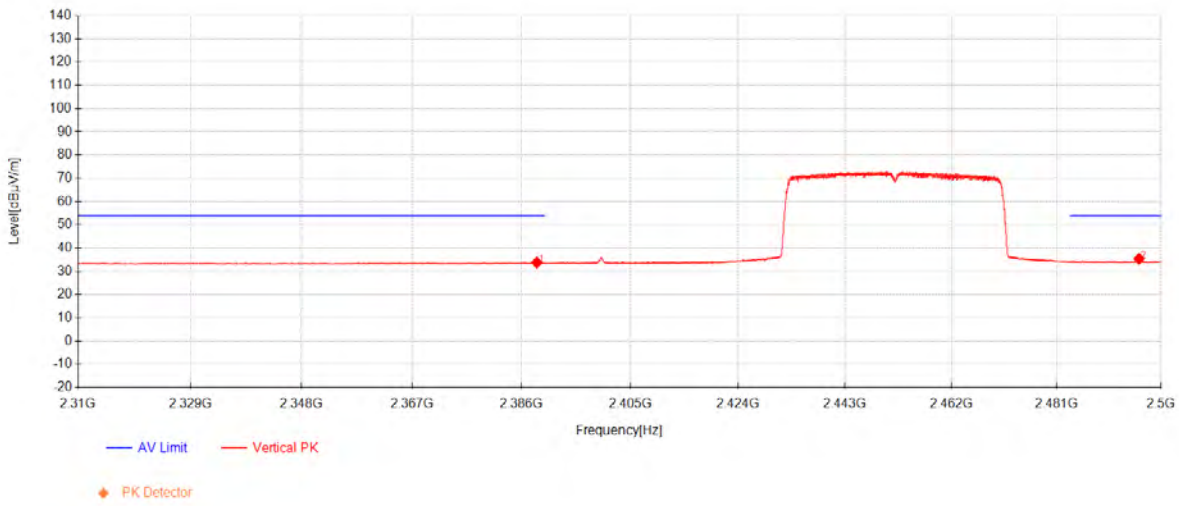
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2382.4425	29.23	27.14	-22.42	33.96	54.00	20.04	Horizontal
2	2489.32	30.24	27.38	-22.29	35.33	54.00	18.67	Horizontal

802.11ax40_Channel 09



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2375.325	43.11	27.13	-22.43	47.80	74.00	26.20	Vertical
2	2484.475	45.12	27.37	-22.29	50.19	74.00	23.81	Vertical

802.11ax40_Channel 09



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2388.65	29.01	27.16	-22.40	33.77	54.00	20.23	Vertical
2	2495.98	30.26	27.39	-22.28	35.37	54.00	18.63	Vertical

7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4,6.5
Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

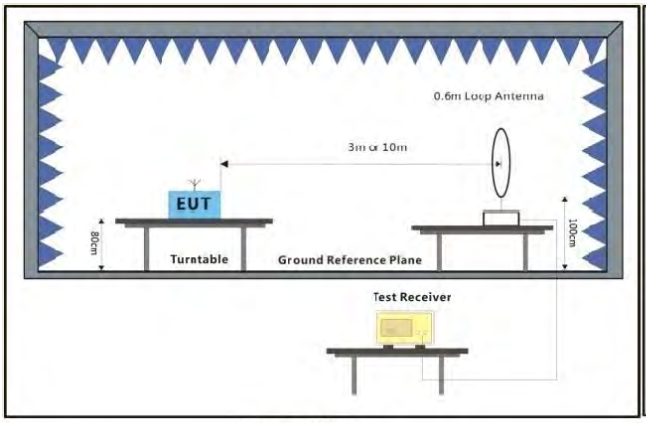
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 25.2 °C Humidity: 45.3 % RH Atmospheric Pressure: 1010 mbar

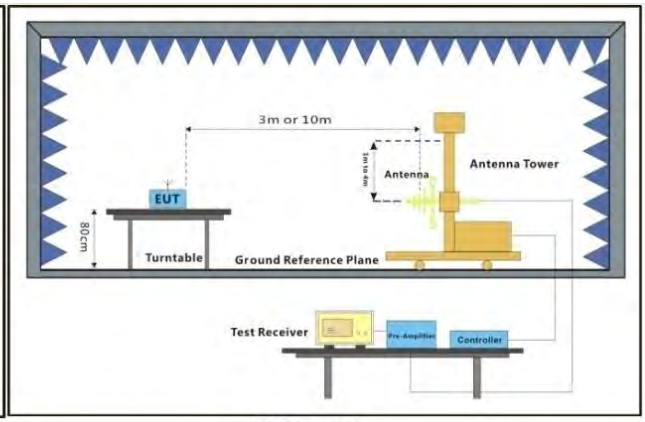
7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



Below 30MHz



30MHz-1GHz

7.3.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

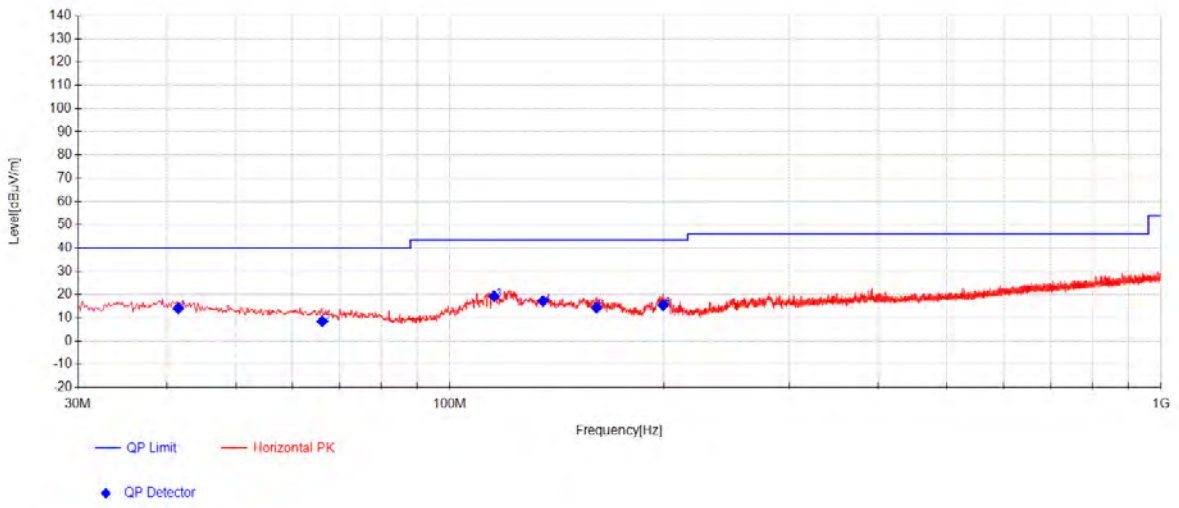
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit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

Note:

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

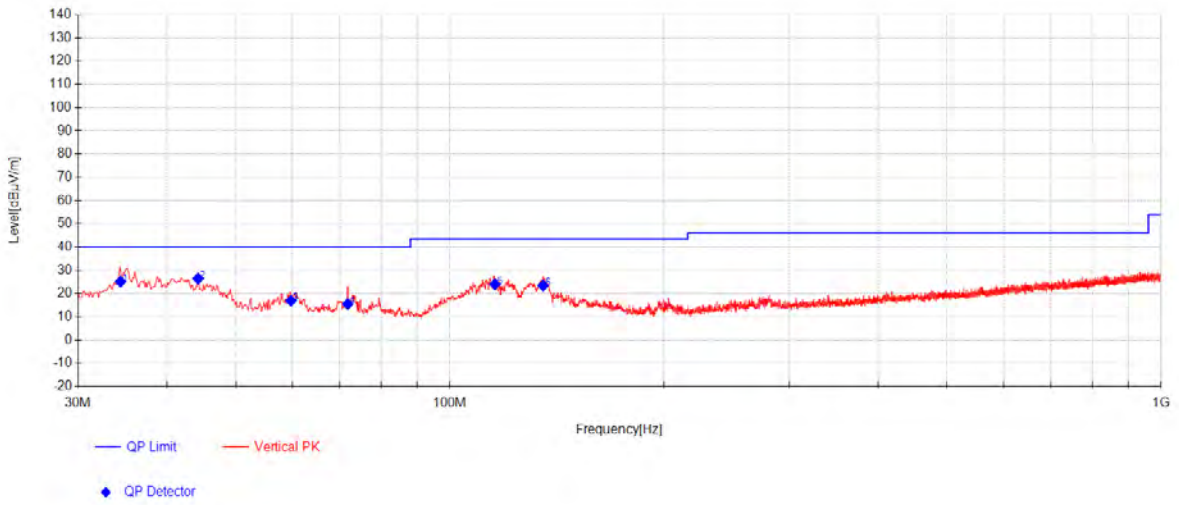
2. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ⩾1/T (Duty cycle＜98%) or 10Hz (Duty cycle⩾98%) for Average detection (AV) at frequency above 1GHz.

11n20_Channel 11



Final Data List								
NO.	Frequency [MHz]]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	41.5008	29.32	-33.99	18.76	14.09	40.00	25.91	Horizontal
2	66.1392	24.97	-33.79	17.27	8.45	40.00	31.55	Horizontal
3	115.3957	36.54	-33.36	16.12	19.30	43.50	24.20	Horizontal
4	135.1687	31.91	-33.26	18.52	17.17	43.50	26.33	Horizontal
5	160.7636	28.31	-33.05	19.05	14.31	43.50	29.19	Horizontal
6	199.4699	32.75	-32.72	15.39	15.42	43.50	28.08	Horizontal

11n20_Channel 11



Final Data List								
NO.	Frequency [MHz]]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	34.4214	40.89	-34.00	18.20	25.09	40.00	14.91	Vertical
2	44.2514	41.55	-33.99	18.82	26.38	40.00	13.62	Vertical
3	59.7853	33.23	-33.86	17.53	16.90	40.00	23.10	Vertical
4	71.8296	32.96	-33.72	16.20	15.44	40.00	24.56	Vertical
5	115.6893	41.16	-33.36	16.20	24.00	43.50	19.50	Vertical
6	135.2056	38.15	-33.26	18.54	23.43	43.50	20.07	Vertical

7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.6
Measurement Distance: 3m

Limit:

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

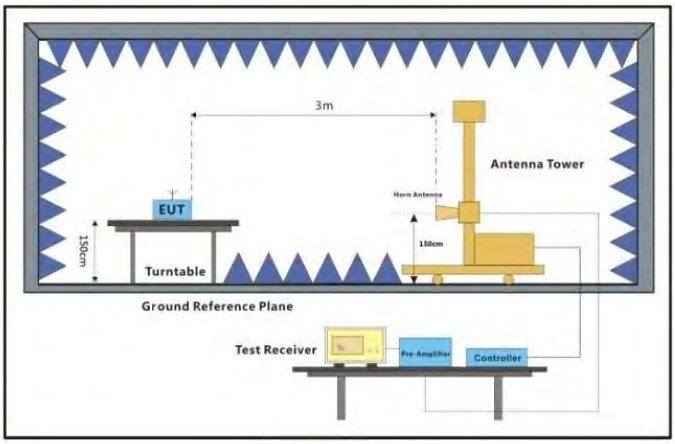
7.4.1 E.U.T. Operation

Operating Environment:
Temperature: 25.2 °C Humidity: 45.3 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



Above 1GHz

7.4.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

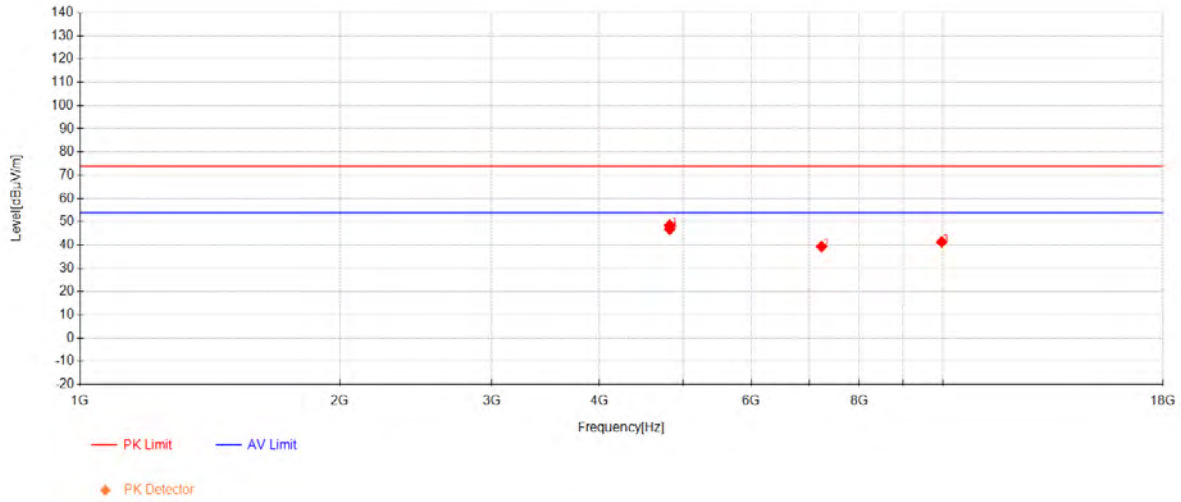
Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

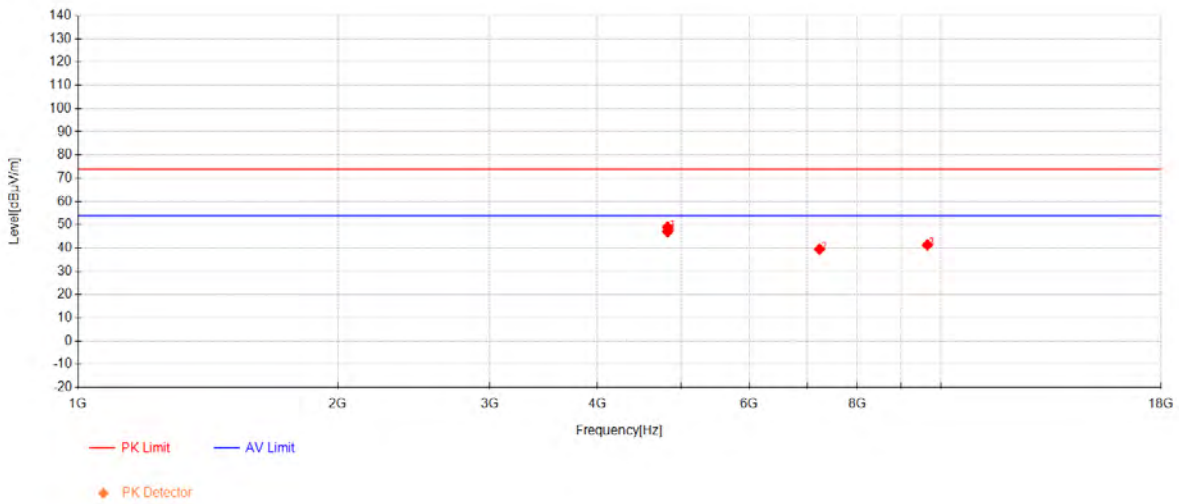
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions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

802.11b_Channel 01



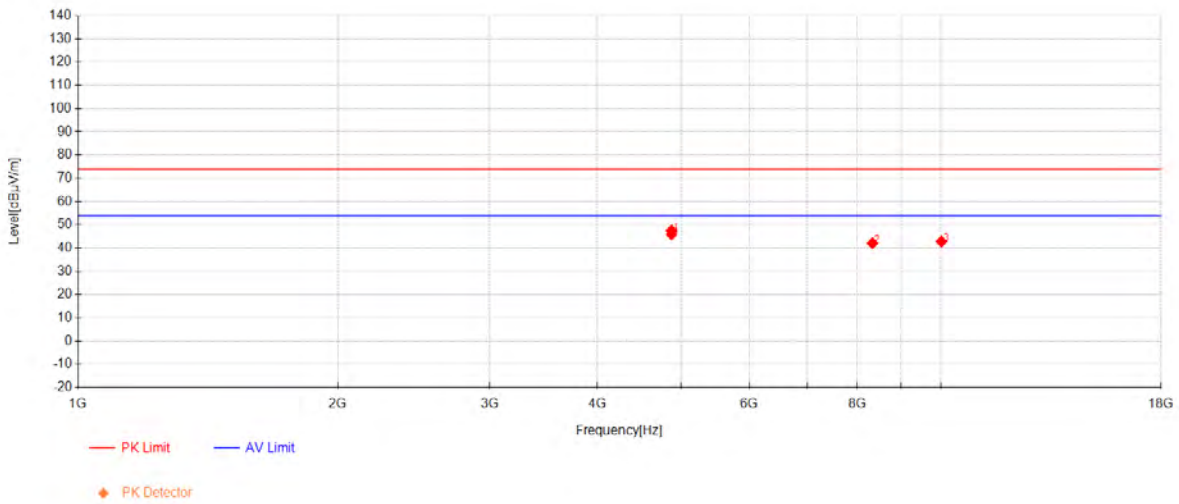
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	57.01	32.81	-41.43	48.39	74.00	25.61	Horizontal
2	7234.5	40.90	36.28	-37.82	39.36	74.00	34.64	Horizontal
3	9970	35.93	37.89	-32.46	41.36	74.00	32.64	Horizontal
4	4824	55.46	32.81	-41.43	46.84	54.00	7.16	Horizontal

802.11b_Channel 01



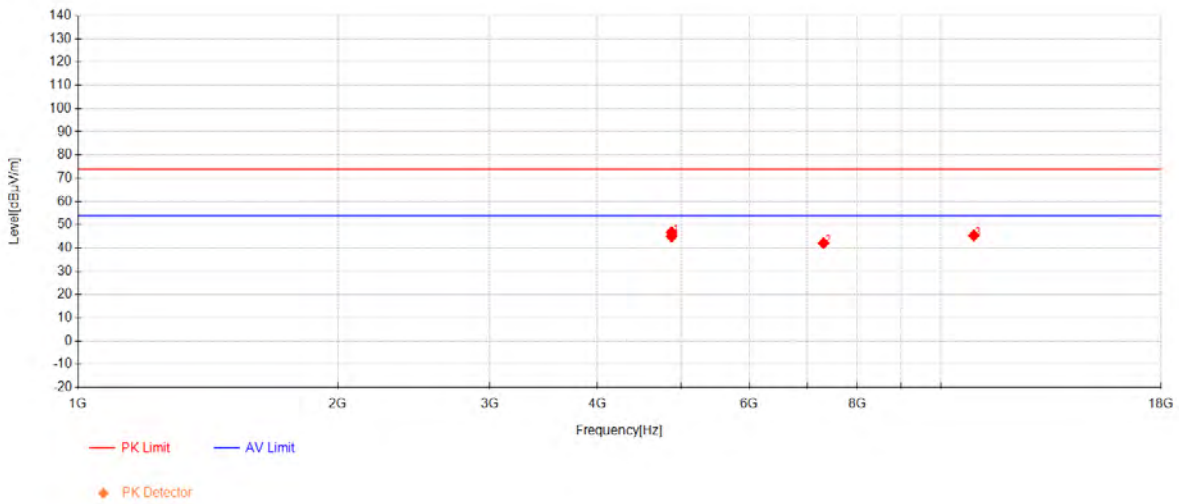
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	57.57	32.81	-41.43	48.95	74.00	25.05	Vertical
2	7234.5	41.06	36.28	-37.82	39.52	74.00	34.48	Vertical
3	9648	36.84	37.79	-33.26	41.37	74.00	32.63	Vertical
4	4824	55.66	32.81	-41.43	47.04	54.00	6.96	Vertical

802.11b_Channel 06



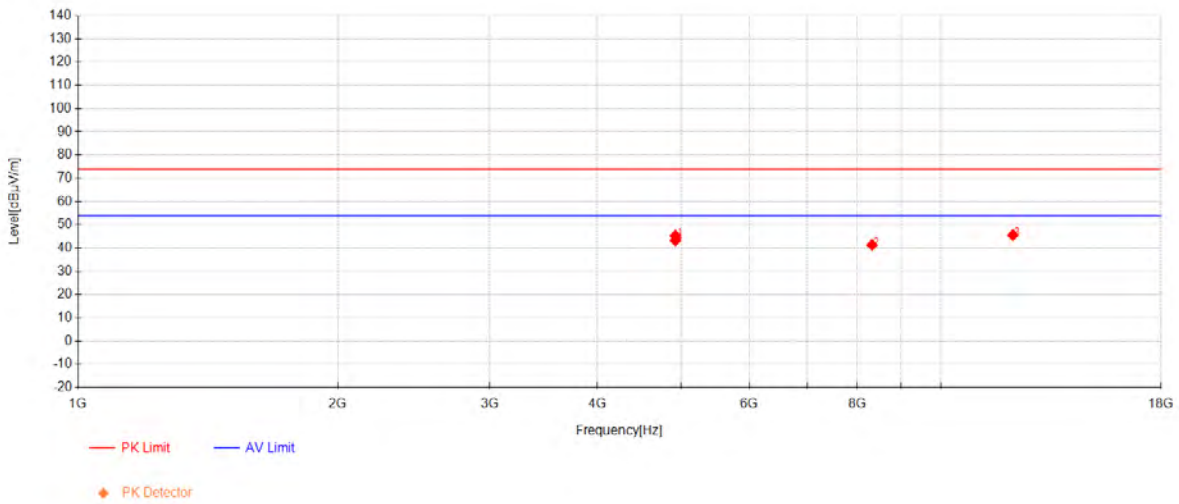
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4873.5	55.82	32.92	-41.28	47.46	74.00	26.54	Horizontal
2	8332	40.72	37.27	-35.87	42.12	74.00	31.88	Horizontal
3	10015.5	37.33	37.91	-32.38	42.86	74.00	31.14	Horizontal
4	4874	54.20	32.92	-41.28	45.84	54.00	8.16	Horizontal

802.11b_Channel 06



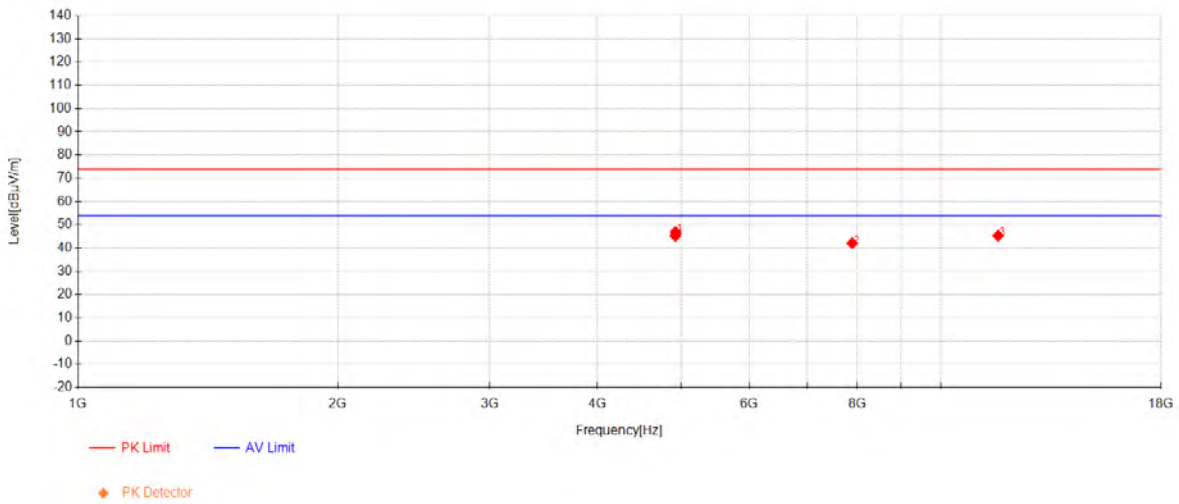
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4874	55.12	32.92	-41.28	46.76	74.00	27.24	Vertical
2	7311.5	43.18	36.37	-37.42	42.13	74.00	31.87	Vertical
3	10922.5	37.61	38.36	-30.55	45.42	74.00	28.58	Vertical
4	4874	53.35	32.92	-41.28	44.99	54.00	9.01	Vertical

802.11b_Channel 11



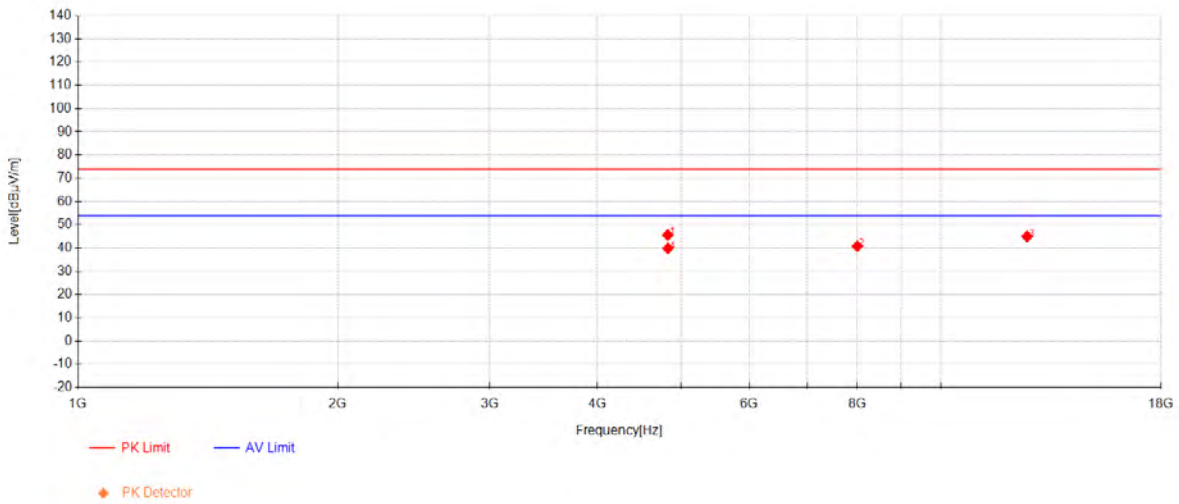
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4924	53.52	33.03	-41.26	45.29	74.00	28.71	Horizontal
2	8323	40.02	37.26	-35.91	41.37	74.00	32.63	Horizontal
3	12121	36.41	38.55	-29.35	45.60	74.00	28.40	Horizontal
4	4924	51.57	33.03	-41.26	43.34	54.00	10.66	Horizontal

802.11b_Channel 11



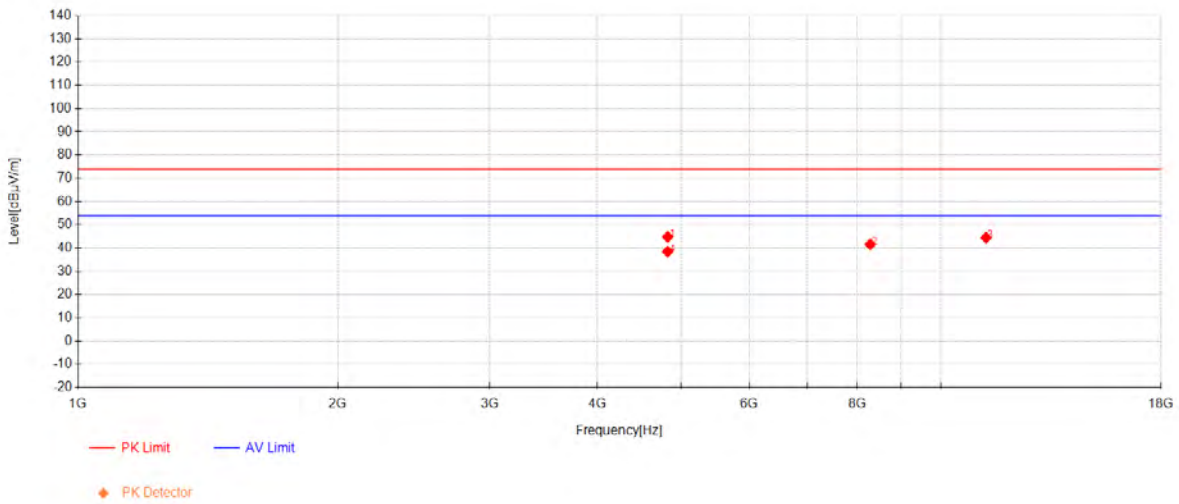
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4924	55.09	33.03	-41.26	46.86	74.00	27.14	Vertical
2	7893	41.77	36.99	-36.67	42.10	74.00	31.90	Vertical
3	11653	36.94	38.40	-29.98	45.36	74.00	28.64	Vertical
4	4924	53.49	33.03	-41.26	45.26	54.00	8.74	Vertical

802.11g_Channel 01



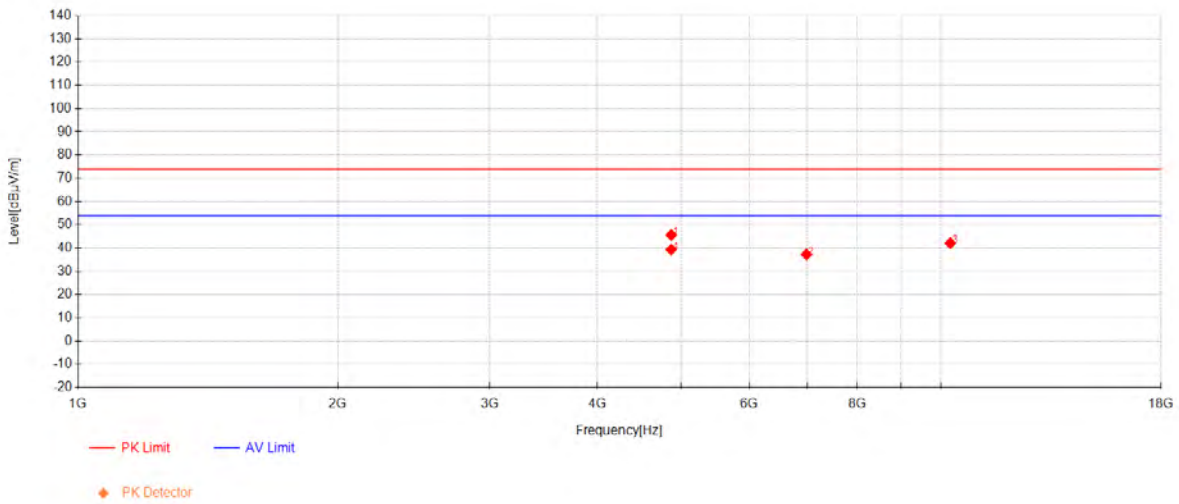
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4825	54.22	32.82	-41.43	45.61	74.00	28.39	Horizontal
2	8001.5	40.21	37.10	-36.54	40.77	74.00	33.23	Horizontal
3	12590	35.42	39.11	-29.55	44.98	74.00	29.02	Horizontal
4	4827	48.44	32.82	-41.42	39.84	54.00	14.16	Horizontal

802.11g_Channel 01



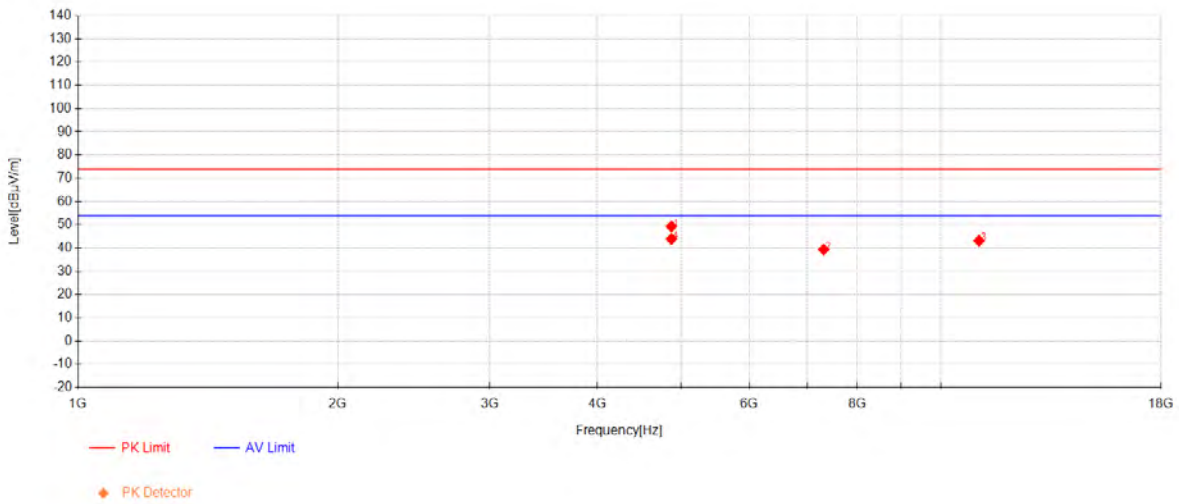
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824.5	53.42	32.81	-41.43	44.81	74.00	29.19	Vertical
2	8283	40.38	37.24	-36.00	41.62	74.00	32.38	Vertical
3	11282.5	36.15	38.40	-30.08	44.47	74.00	29.53	Vertical
4	4823.5	47.04	32.81	-41.43	38.42	54.00	15.58	Vertical

802.11g_Channel 06



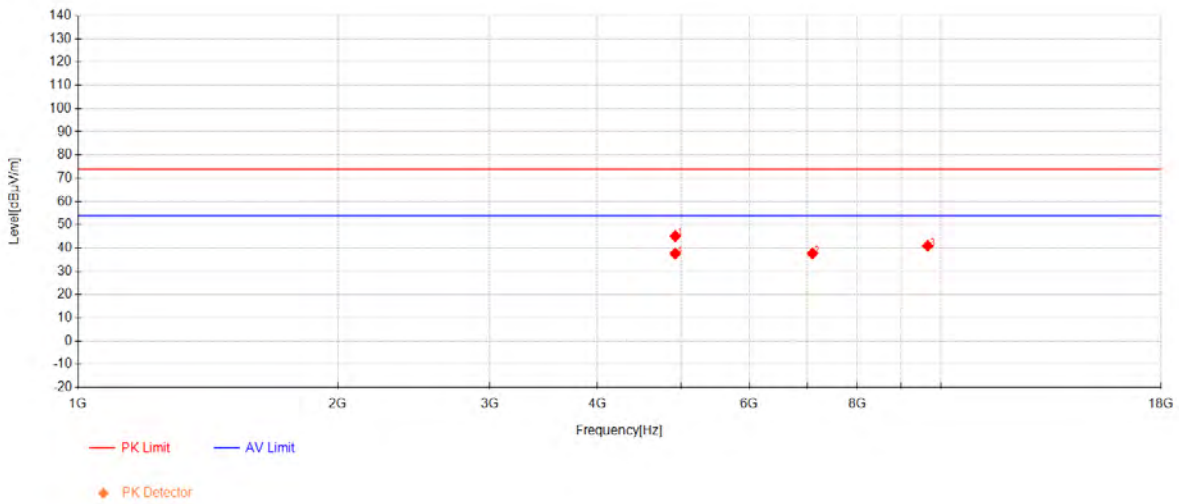
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4870.5	53.98	32.92	-41.29	45.61	74.00	28.39	Horizontal
2	6987	39.60	35.99	-38.37	37.22	74.00	36.78	Horizontal
3	10257.5	36.24	38.03	-32.14	42.13	74.00	31.87	Horizontal
4	4869	47.73	32.91	-41.29	39.35	54.00	14.65	Horizontal

802.11g_Channel 06



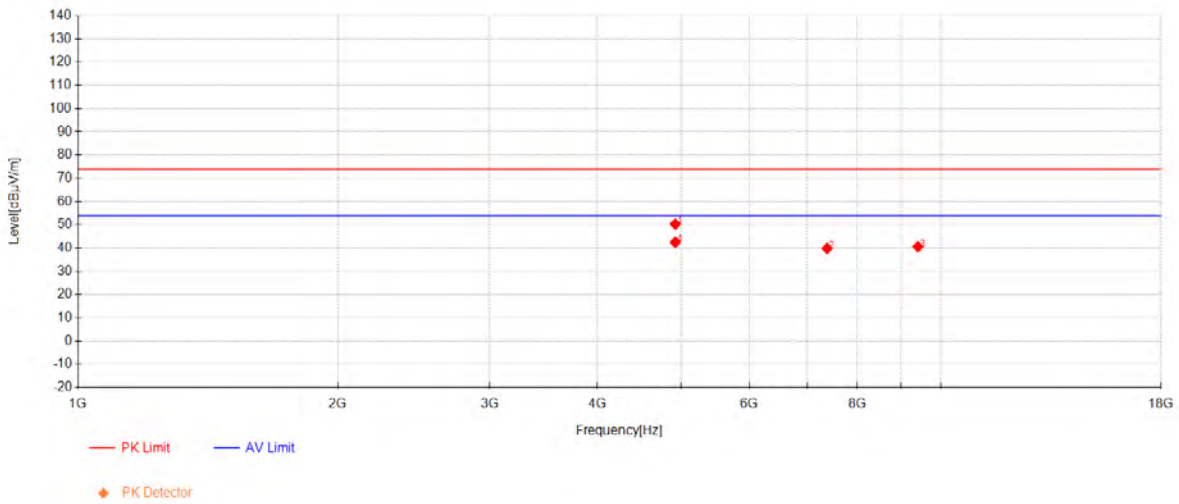
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4872.5	57.61	32.92	-41.28	49.25	74.00	24.75	Vertical
2	7315	40.43	36.38	-37.44	39.37	74.00	34.63	Vertical
3	11073	35.02	38.40	-30.22	43.20	74.00	30.80	Vertical
4	4872.5	52.28	32.92	-41.28	43.92	54.00	10.08	Vertical

802.11g_Channel 11



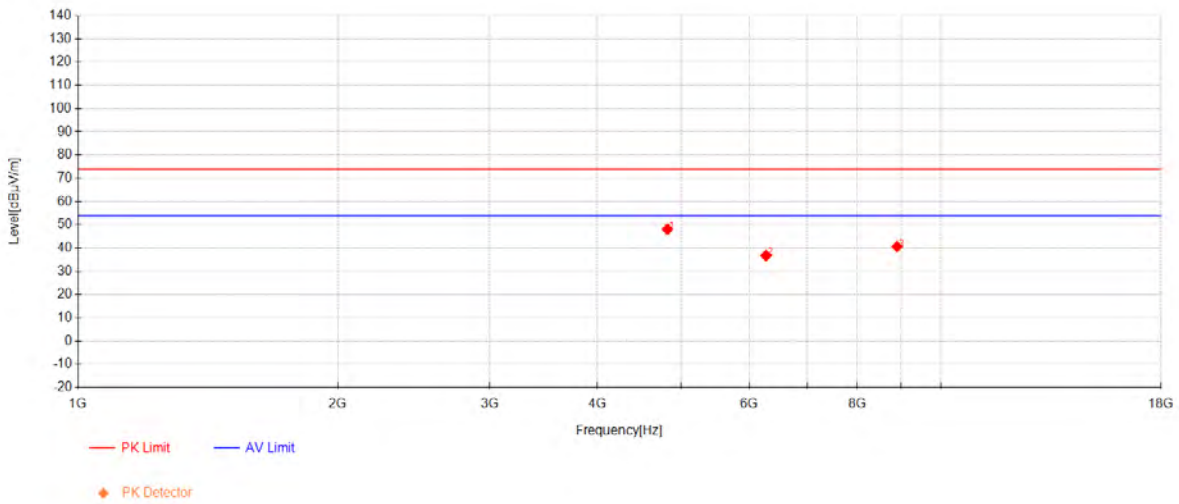
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4922.5	53.35	33.03	-41.26	45.12	74.00	28.88	Horizontal
2	7099	39.63	36.12	-38.12	37.63	74.00	36.37	Horizontal
3	9657	36.38	37.80	-33.22	40.96	74.00	33.04	Horizontal
4	4921.5	45.77	33.03	-41.26	37.54	54.00	16.46	Horizontal

802.11g_Channel 11



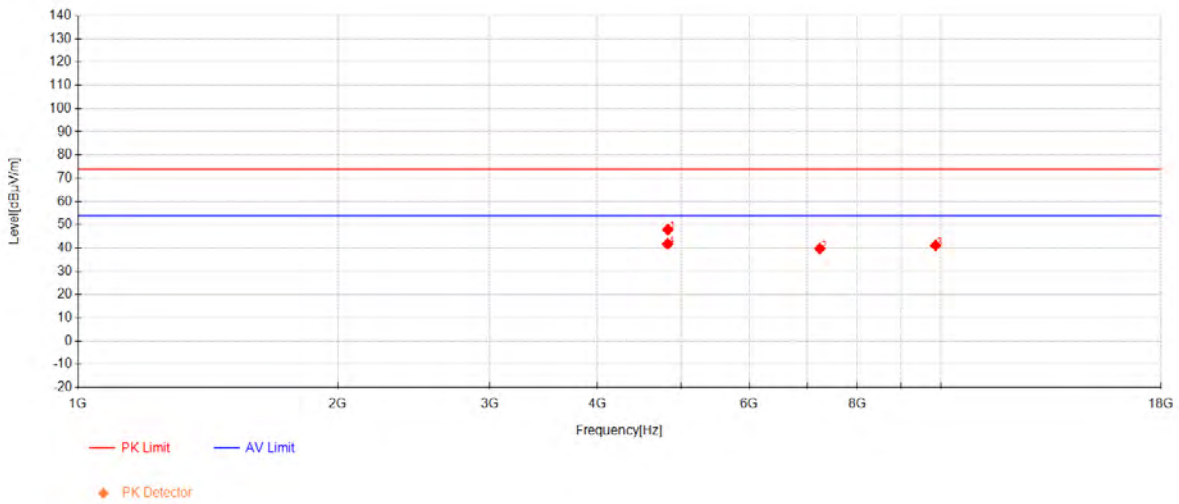
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4923	58.49	33.03	-41.26	50.26	74.00	23.74	Vertical
2	7382.5	41.17	36.46	-37.80	39.83	74.00	34.17	Vertical
3	9407	36.62	37.72	-33.76	40.58	74.00	33.42	Vertical
4	4923	50.76	33.03	-41.26	42.53	54.00	11.47	Vertical

802.11n20_Channel 01



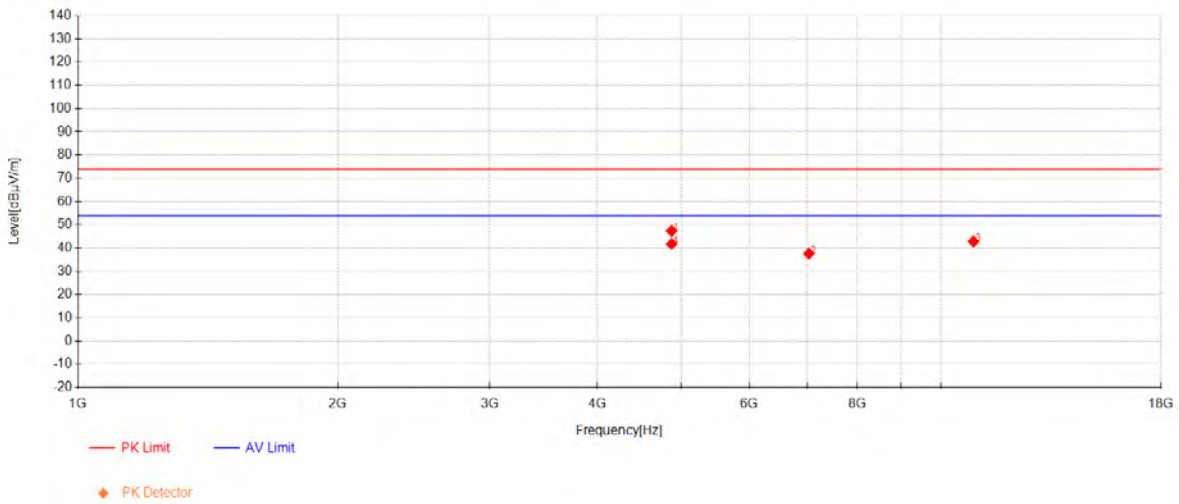
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4821	56.65	32.81	-41.44	48.02	74.00	25.98	Horizontal
2	6272.5	40.94	35.35	-39.56	36.72	74.00	37.28	Horizontal
3	8897.5	38.09	37.55	-35.01	40.63	74.00	33.37	Horizontal

802.11n20_Channel 01



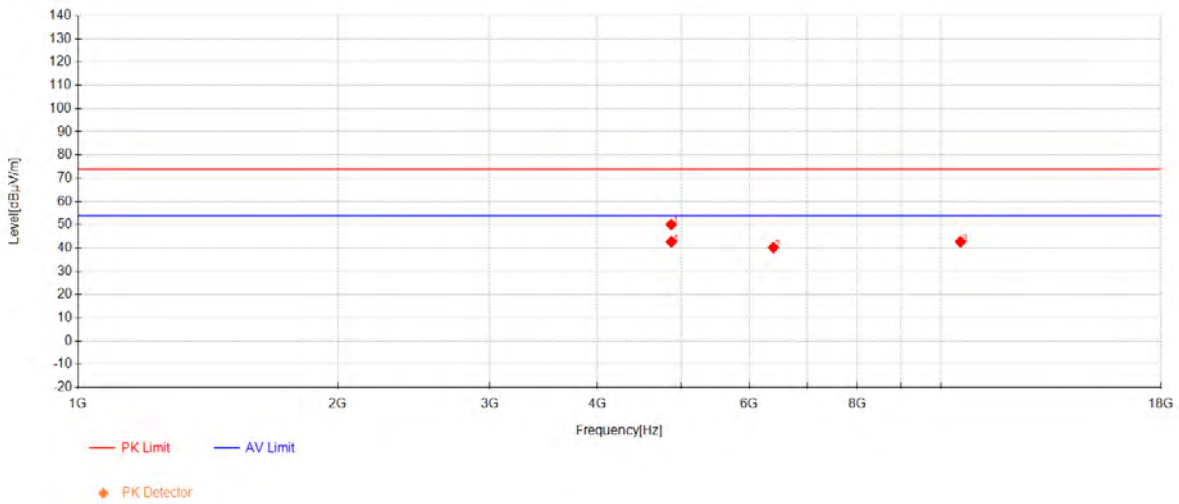
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4826.5	56.50	32.82	-41.42	47.90	74.00	26.10	Vertical
2	7239.5	41.24	36.29	-37.78	39.74	74.00	34.26	Vertical
3	9862	36.05	37.86	-32.78	41.13	74.00	32.87	Vertical
4	4822.5	50.39	32.81	-41.43	41.77	54.00	12.23	Vertical

802.11n20_Channel 06



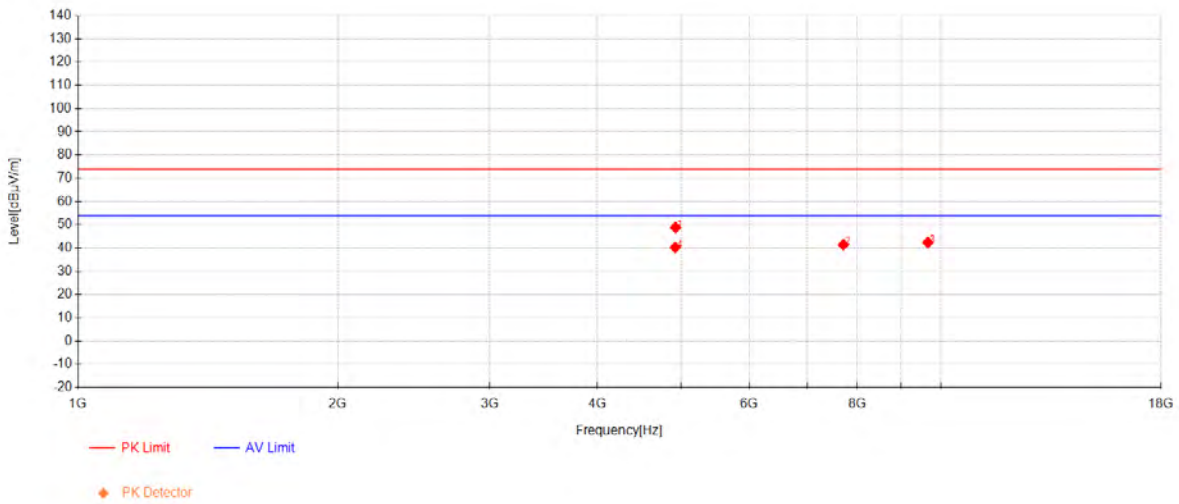
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4875	55.72	32.93	-41.28	47.37	74.00	26.63	Horizontal
2	7032	39.80	36.04	-38.30	37.54	74.00	36.46	Horizontal
3	10910.5	35.12	38.36	-30.61	42.86	74.00	31.14	Horizontal
4	4875	50.13	32.93	-41.28	41.78	54.00	12.22	Horizontal

802.11n20_Channel 06



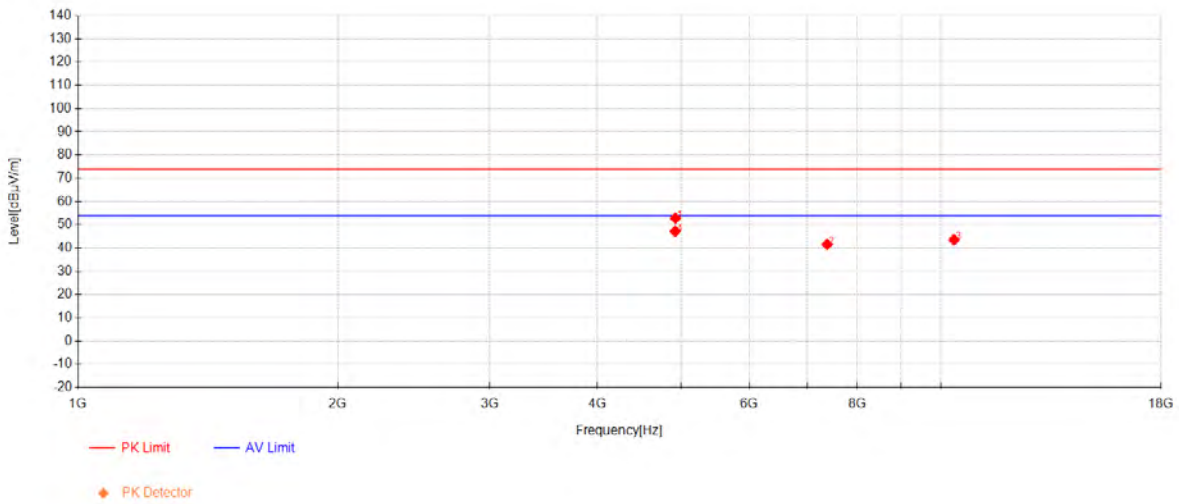
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4870	58.46	32.91	-41.29	50.08	74.00	23.92	Vertical
2	6396.5	43.80	35.59	-39.17	40.22	74.00	33.78	Vertical
3	10538	35.81	38.17	-31.23	42.75	74.00	31.25	Vertical
4	4872	51.10	32.92	-41.28	42.73	54.00	11.27	Vertical

802.11n20_Channel 11



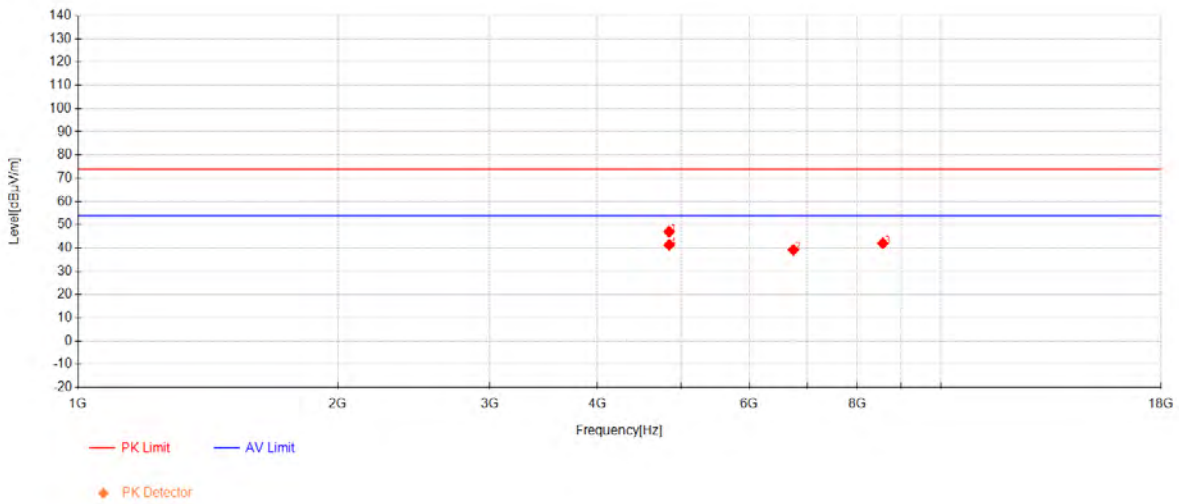
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4926.5	57.04	33.04	-41.27	48.81	74.00	25.19	Horizontal
2	7710	41.93	36.81	-37.28	41.46	74.00	32.54	Horizontal
3	9661.5	37.83	37.80	-33.20	42.43	74.00	31.57	Horizontal
4	4921.5	48.52	33.03	-41.26	40.29	54.00	13.71	Horizontal

802.11n20_Channel 11



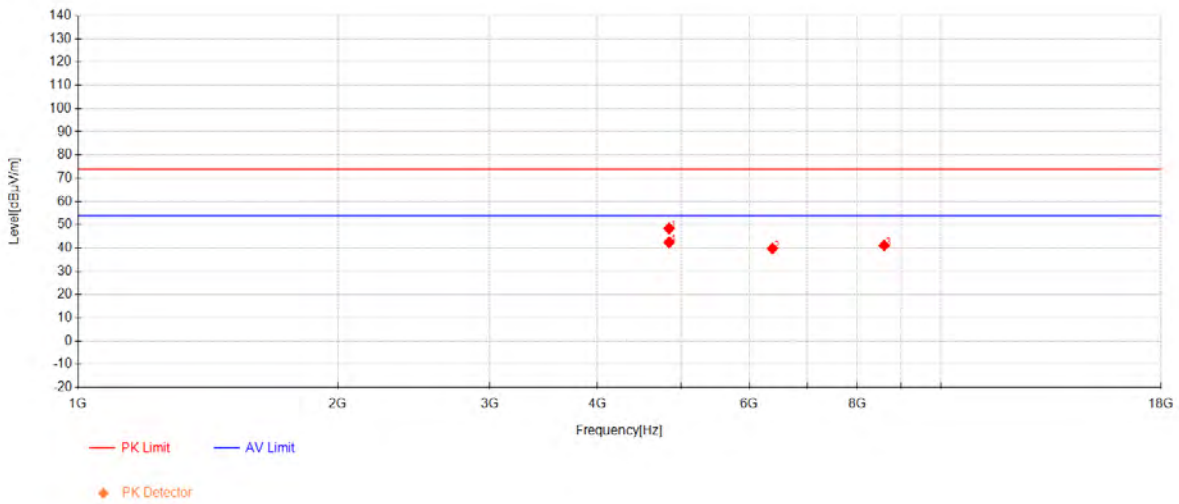
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924.5	61.07	33.03	-41.27	52.84	74.00	21.16	Vertical
2	7383.5	42.94	36.46	-37.80	41.60	74.00	32.40	Vertical
3	10360.5	37.27	38.08	-31.75	43.60	74.00	30.40	Vertical
4	4921.5	55.39	33.03	-41.26	47.16	54.00	6.84	Vertical

802.11n40_Channel 03



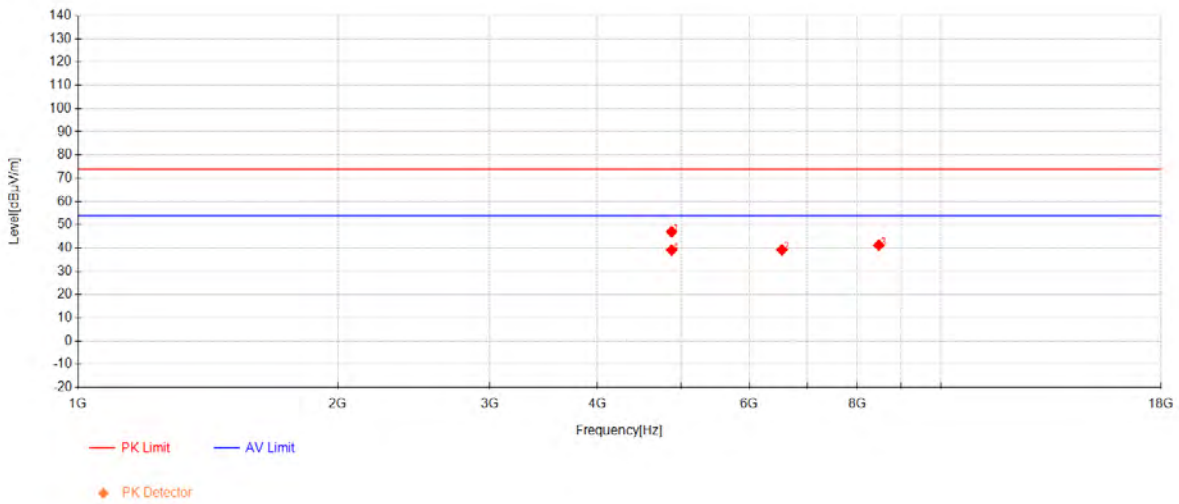
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4843	55.53	32.85	-41.37	47.01	74.00	26.99	Horizontal
2	6747	41.95	35.90	-38.62	39.22	74.00	34.78	Horizontal
3	8567	39.95	37.38	-35.30	42.03	74.00	31.97	Horizontal
4	4843	49.89	32.85	-41.37	41.37	54.00	12.63	Horizontal

802.11n40_Channel 03



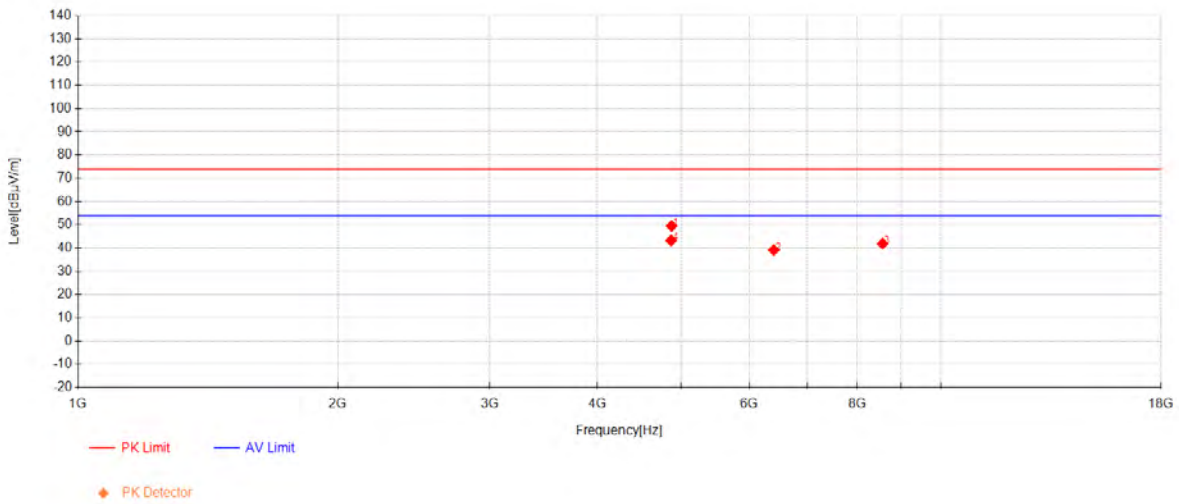
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4842.5	56.88	32.85	-41.37	48.36	74.00	25.64	Vertical
2	6378.5	43.45	35.56	-39.24	39.76	74.00	34.24	Vertical
3	8598	38.89	37.40	-35.17	41.12	74.00	32.88	Vertical
4	4842.5	51.03	32.85	-41.37	42.51	54.00	11.49	Vertical

802.11n40_Channel 06



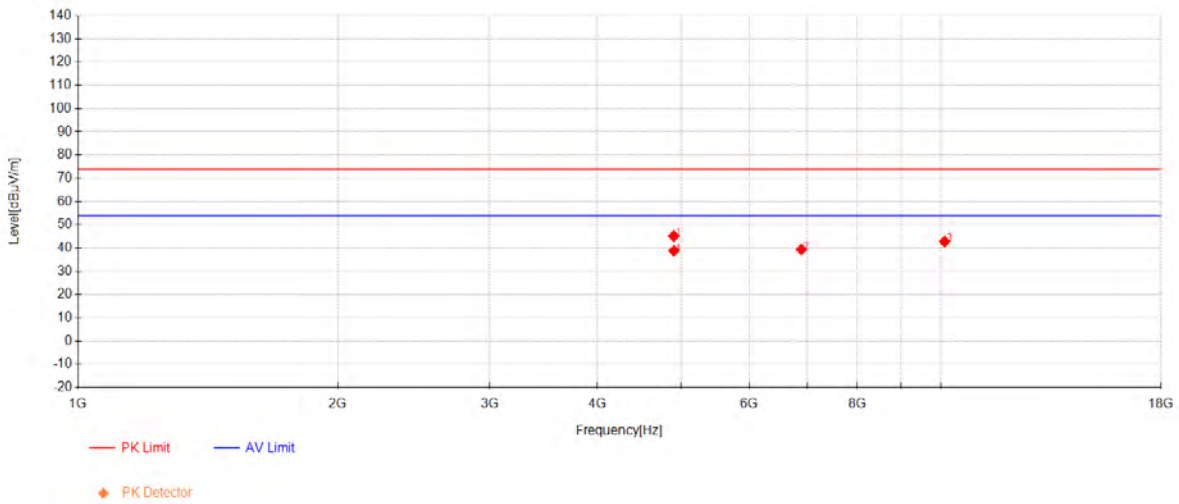
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4875	55.33	32.93	-41.28	46.98	74.00	27.02	Horizontal
2	6543.5	42.55	35.82	-39.13	39.24	74.00	34.76	Horizontal
3	8476.5	39.48	37.34	-35.58	41.24	74.00	32.76	Horizontal
4	4875	47.47	32.93	-41.28	39.12	54.00	14.88	Horizontal

802.11n40_Channel 06



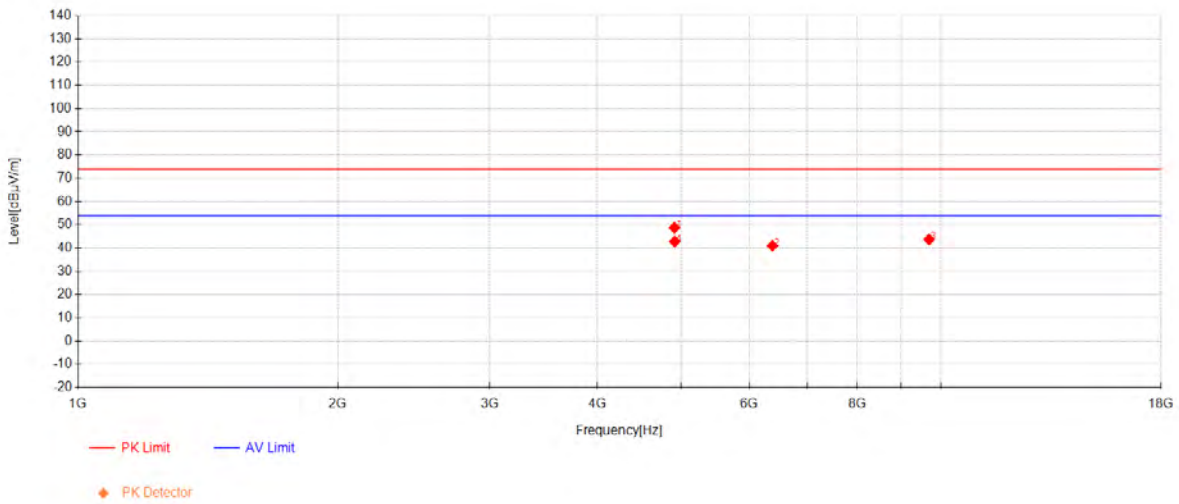
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4874.5	57.80	32.92	-41.28	49.45	74.00	24.55	Vertical
2	6402	42.71	35.60	-39.16	39.15	74.00	34.85	Vertical
3	8560.5	39.87	37.38	-35.33	41.92	74.00	32.08	Vertical
4	4868	51.66	32.91	-41.30	43.27	54.00	10.73	Vertical

802.11n40_Channel 09



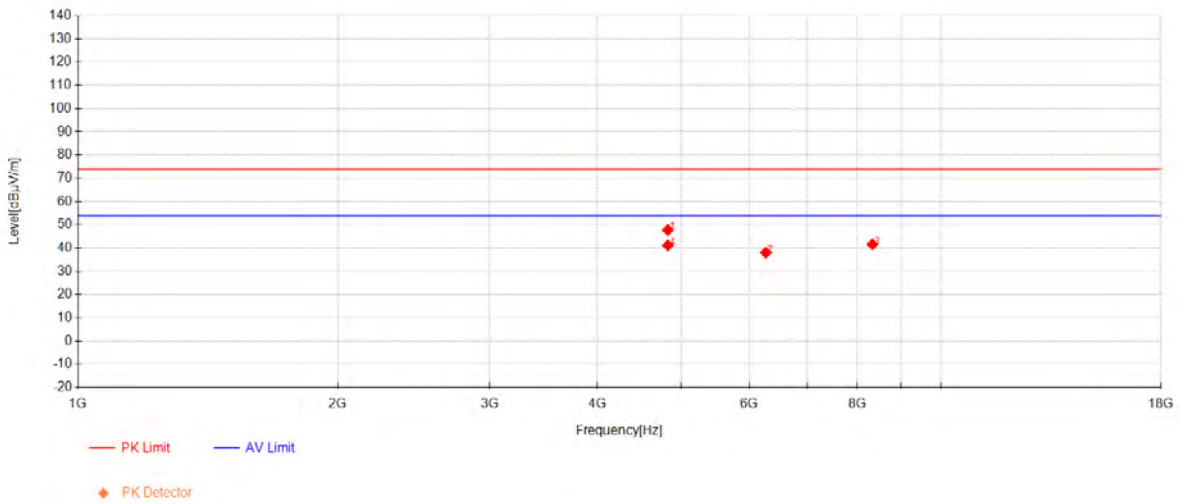
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4903	53.37	32.99	-41.21	45.15	74.00	28.85	Horizontal
2	6893	41.79	35.96	-38.34	39.41	74.00	34.59	Horizontal
3	10102	37.10	37.95	-32.21	42.84	74.00	31.16	Horizontal
4	4905	47.02	32.99	-41.21	38.80	54.00	15.20	Horizontal

802.11n40_Channel 09



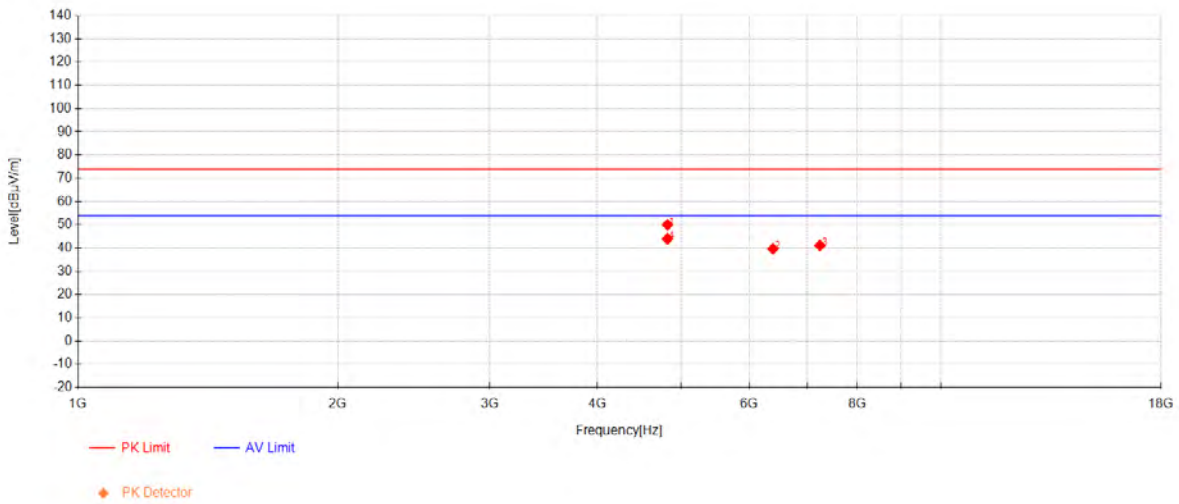
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4911.5	56.90	33.01	-41.23	48.67	74.00	25.33	Vertical
2	6380	44.66	35.56	-39.24	40.98	74.00	33.02	Vertical
3	9691.5	38.97	37.81	-33.06	43.72	74.00	30.28	Vertical
4	4915	51.05	33.01	-41.24	42.82	54.00	11.18	Vertical

802.11ax20_Channel 01



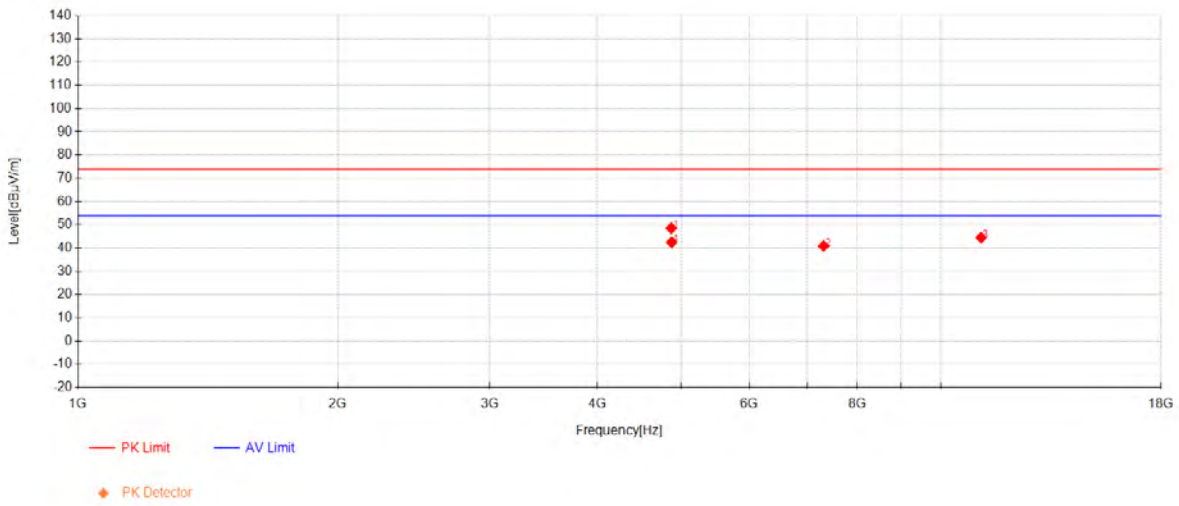
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4825	56.32	32.82	-41.43	47.71	74.00	26.29	Horizontal
2	6268.5	42.25	35.34	-39.57	38.02	74.00	35.98	Horizontal
3	8332.5	40.20	37.27	-35.87	41.60	74.00	32.40	Horizontal
4	4825.5	49.77	32.82	-41.42	41.16	54.00	12.84	Horizontal

802.11ax20_Channel 01



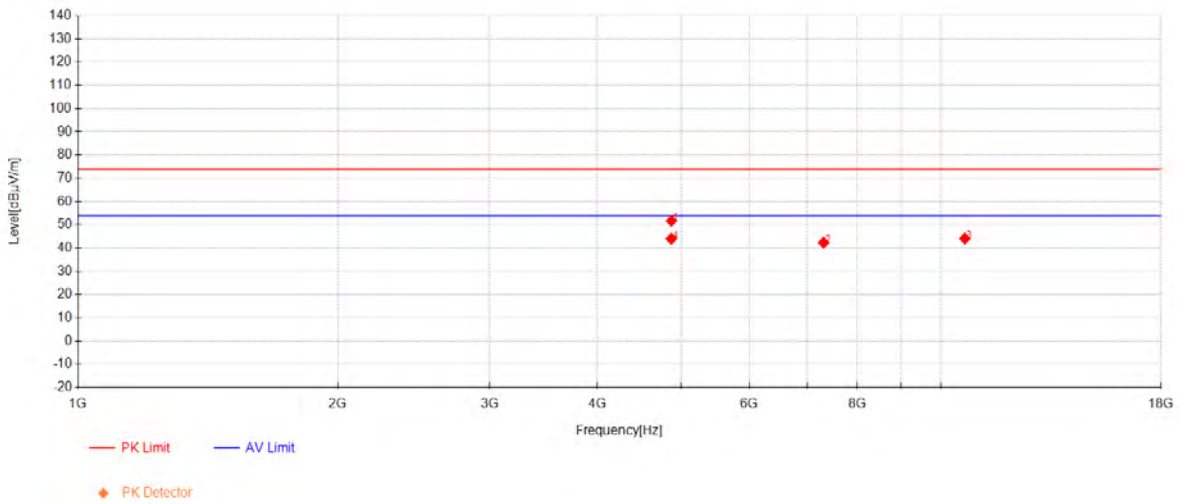
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4822	58.63	32.81	-41.43	50.00	74.00	24.00	Vertical
2	6388.5	43.28	35.58	-39.20	39.65	74.00	34.35	Vertical
3	7243	42.61	36.29	-37.76	41.14	74.00	32.86	Vertical
4	4821	52.59	32.81	-41.44	43.96	54.00	10.04	Vertical

802.11ax20_Channel 06



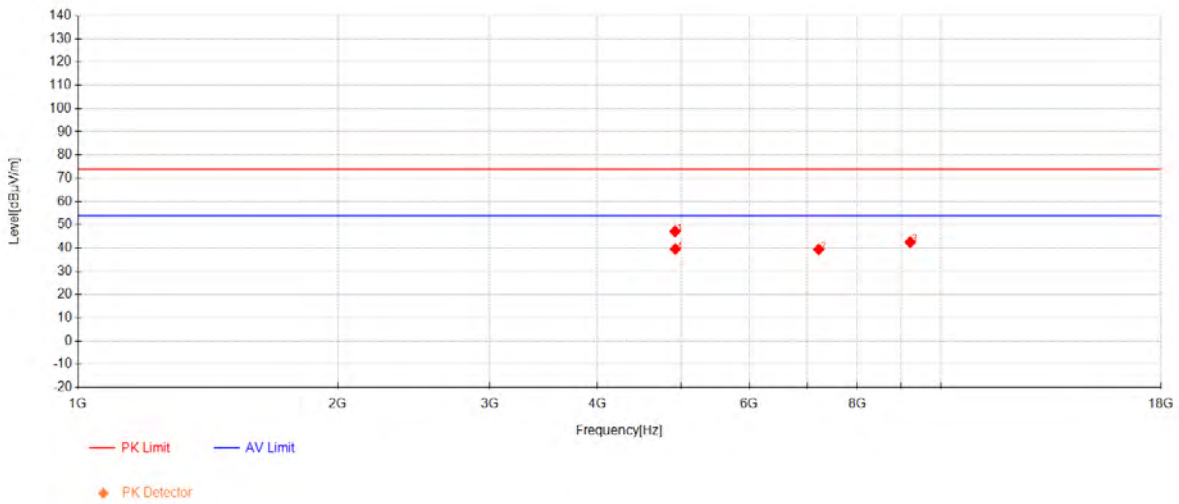
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4870.5	56.88	32.92	-41.29	48.51	74.00	25.49	Horizontal
2	7312.5	41.92	36.38	-37.43	40.87	74.00	33.13	Horizontal
3	11136	36.37	38.40	-30.25	44.52	74.00	29.48	Horizontal
4	4875	50.84	32.93	-41.28	42.49	54.00	11.51	Horizontal

802.11ax20_Channel 06



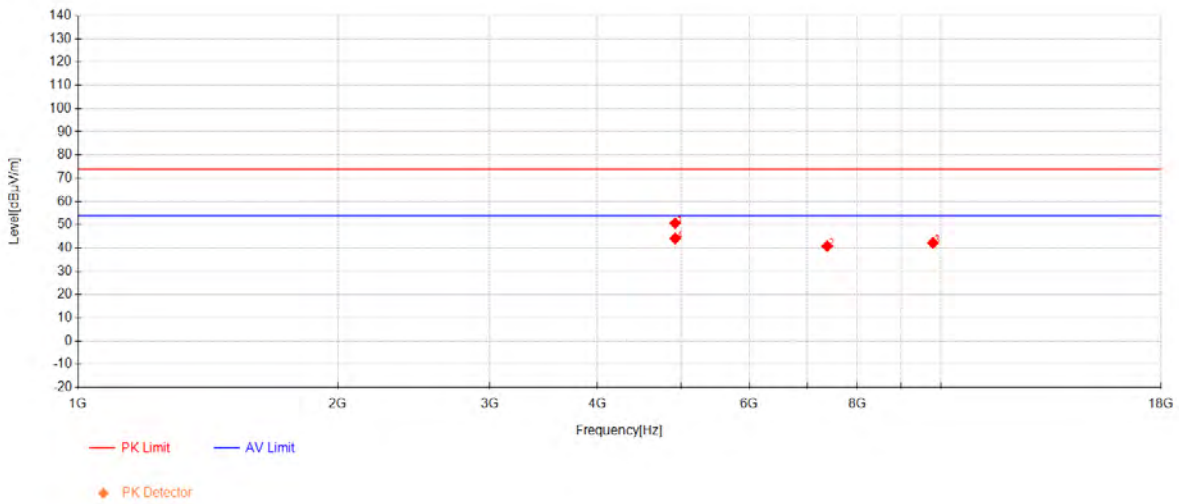
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4872.5	60.05	32.92	-41.28	51.69	74.00	22.31	Vertical
2	7313	43.43	36.38	-37.43	42.38	74.00	31.62	Vertical
3	10662	36.75	38.23	-30.87	44.12	74.00	29.88	Vertical
4	4871	52.37	32.92	-41.29	44.00	54.00	10.00	Vertical

802.11ax20_Channel 11



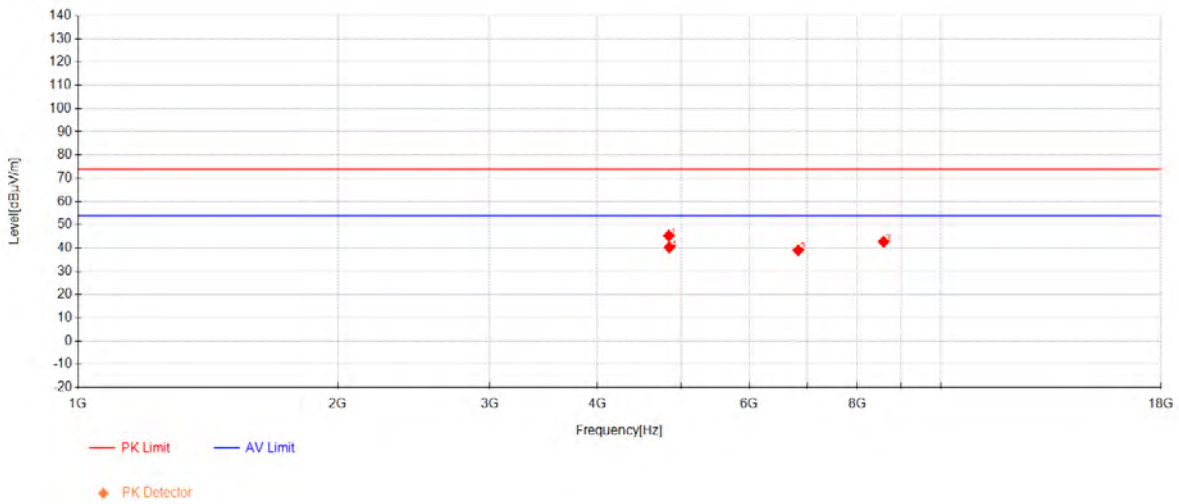
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4920.5	55.36	33.03	-41.26	47.13	74.00	26.87	Horizontal
2	7219	41.10	36.26	-37.93	39.44	74.00	34.56	Horizontal
3	9216	39.30	37.66	-34.39	42.58	74.00	31.42	Horizontal
4	4923.5	47.79	33.03	-41.26	39.56	54.00	14.44	Horizontal

802.11ax20_Channel 11



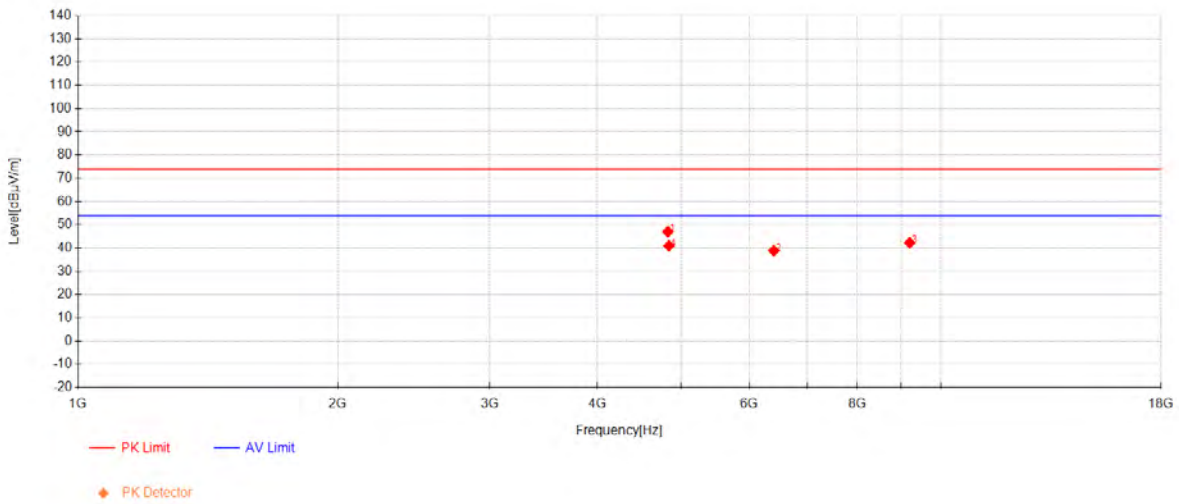
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4921.5	58.91	33.03	-41.26	50.68	74.00	23.32	Vertical
2	7383	42.12	36.46	-37.80	40.78	74.00	33.22	Vertical
3	9792.5	37.50	37.84	-33.09	42.24	74.00	31.76	Vertical
4	4921.5	52.38	33.03	-41.26	44.15	54.00	9.85	Vertical

802.11ax40_Channel 03



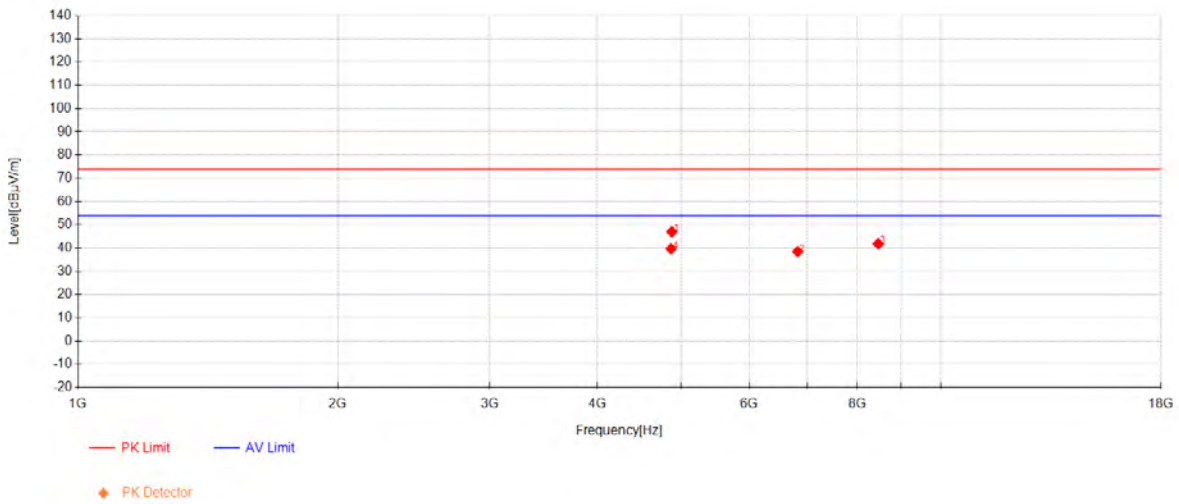
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4839	53.84	32.85	-41.38	45.30	74.00	28.70	Horizontal
2	6833.5	41.51	35.93	-38.42	39.03	74.00	34.97	Horizontal
3	8584	40.59	37.39	-35.23	42.75	74.00	31.25	Horizontal
4	4844.5	48.78	32.86	-41.37	40.27	54.00	13.73	Horizontal

802.11ax40_Channel 03



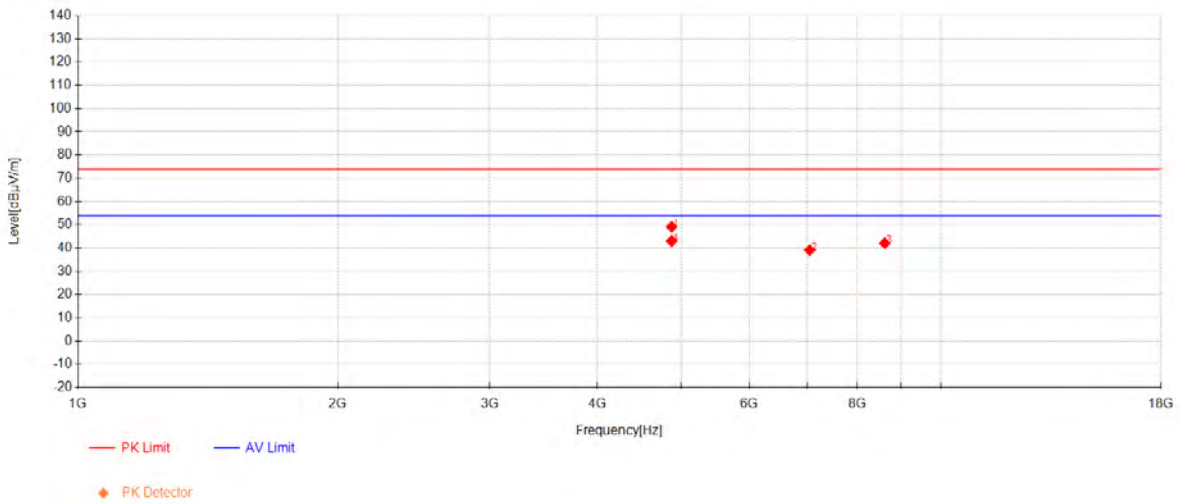
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4826.5	55.60	32.82	-41.42	47.00	74.00	27.00	Vertical
2	6404	42.39	35.61	-39.16	38.84	74.00	35.16	Vertical
3	9203	39.06	37.66	-34.42	42.30	74.00	31.70	Vertical
4	4840	49.50	32.85	-41.38	40.97	54.00	13.03	Vertical

802.11ax40_Channel 06



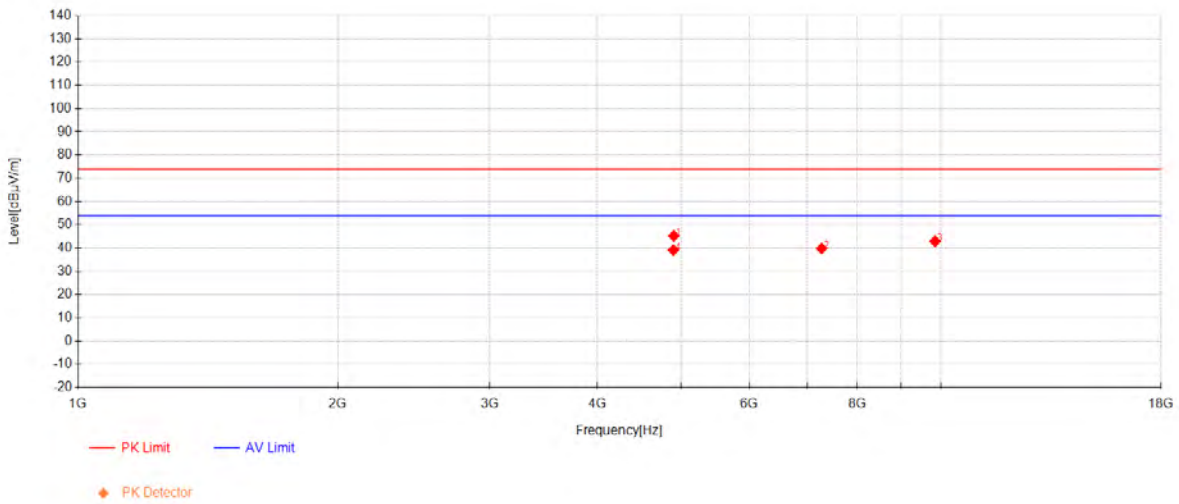
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4877.5	55.32	32.93	-41.27	46.98	74.00	27.02	Horizontal
2	6825	40.96	35.93	-38.43	38.46	74.00	35.54	Horizontal
3	8462	40.08	37.33	-35.58	41.83	74.00	32.17	Horizontal
4	4866.5	48.07	32.91	-41.30	39.68	54.00	14.32	Horizontal

802.11ax40_Channel 06



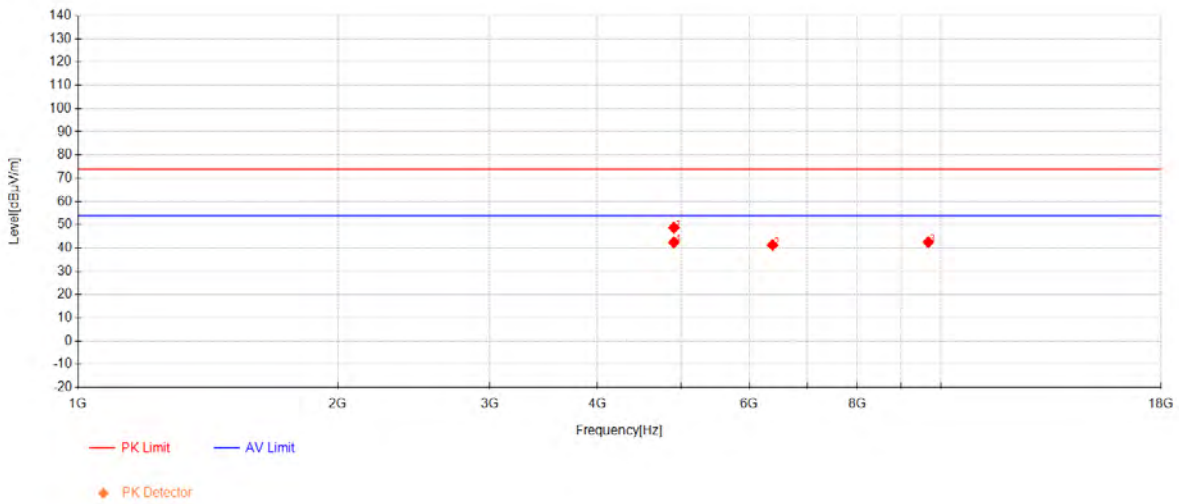
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4875	57.46	32.93	-41.28	49.11	74.00	24.89	Vertical
2	7046.5	41.30	36.06	-38.26	39.10	74.00	34.90	Vertical
3	8610	39.90	37.41	-35.19	42.12	74.00	31.88	Vertical
4	4875	51.38	32.93	-41.28	43.03	54.00	10.97	Vertical

802.11ax40_Channel 09



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4903.5	53.47	32.99	-41.21	45.25	74.00	28.75	Horizontal
2	7274.5	41.01	36.33	-37.54	39.80	74.00	34.20	Horizontal
3	9847	37.94	37.85	-32.86	42.94	74.00	31.06	Horizontal
4	4898.5	47.36	32.98	-41.20	39.13	54.00	14.87	Horizontal

802.11ax40_Channel 09



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4906	56.94	32.99	-41.22	48.72	74.00	25.28	Vertical
2	6382	45.00	35.56	-39.23	41.33	74.00	32.67	Vertical
3	9671	37.93	37.80	-33.16	42.58	74.00	31.42	Vertical
4	4903	50.69	32.99	-41.21	42.47	54.00	11.53	Vertical

7.5 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

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

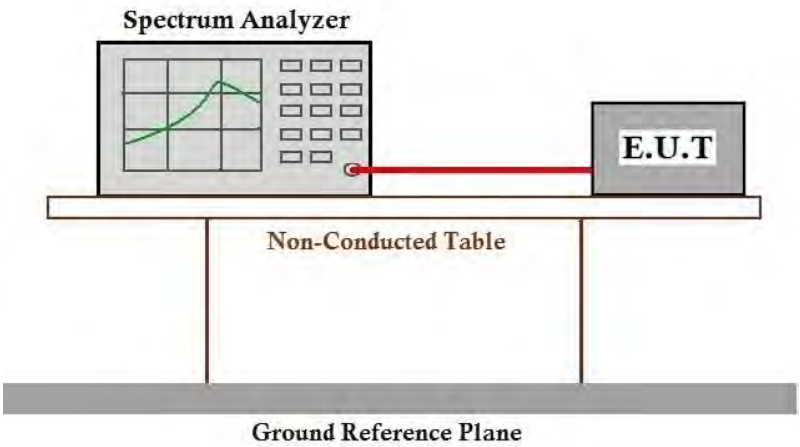
7.5.1 E.U.T. Operation

Operating Environment:
Temperature: 20.8 °C Humidity: 54.0 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details

7.6 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:

≥500 kHz

7.6.1 E.U.T. Operation

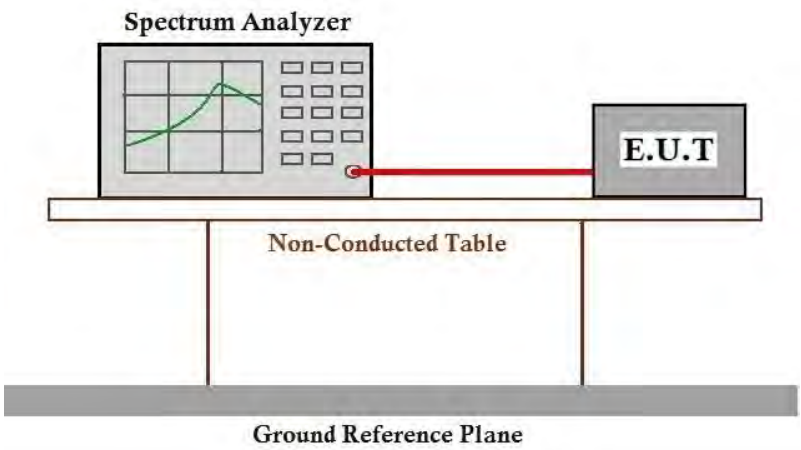
Operating Environment:

Temperature: 20.8 °C Humidity: 54.0 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.7 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.2

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

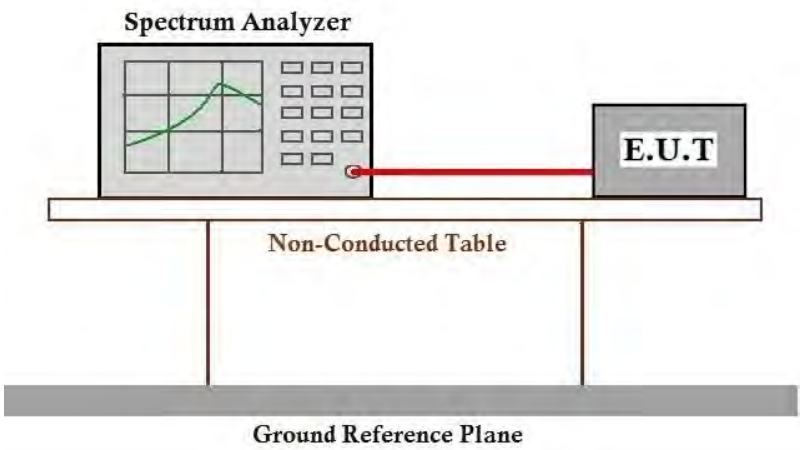
7.7.1 E.U.T. Operation

Operating Environment:
Temperature: 20.8 °C Humidity: 54.0 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

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

7.8.1 E.U.T. Operation

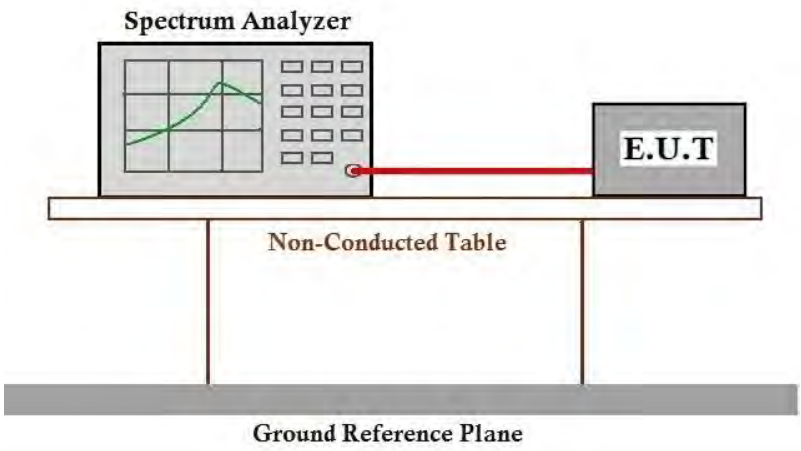
Operating Environment:

Temperature: 20.8 °C Humidity: 54.0 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.9 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

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

7.9.1 E.U.T. Operation

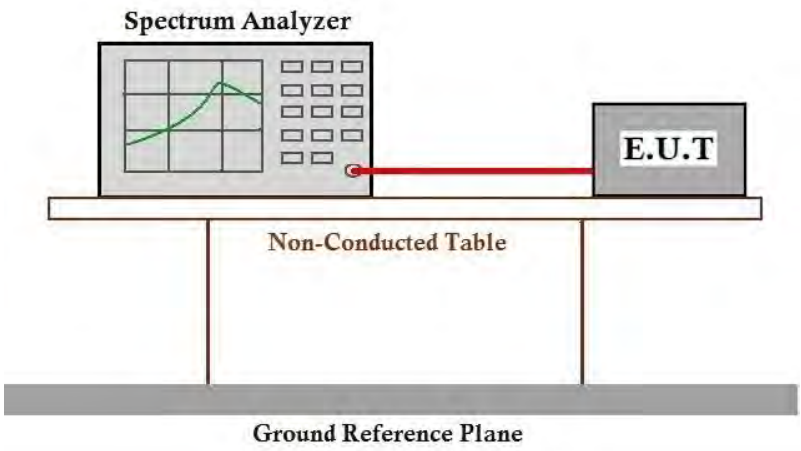
Operating Environment:

Temperature: 20.8 °C Humidity: 54.0 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.10 99% Bandwidth

Test Requirement RSS-Gen Section 6.7
Test Method: ANSI C63.10 (2013) Section 6.9.3

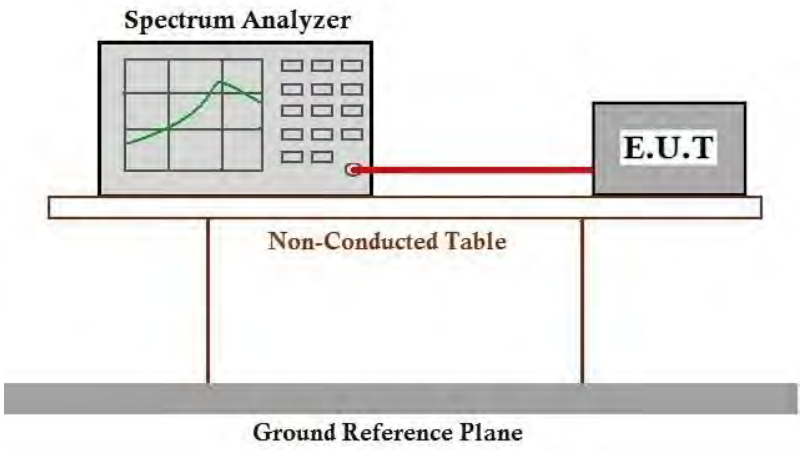
7.10.1 E.U.T. Operation

Operating Environment:
Temperature: 24.5 °C Humidity: 51.6 % RH Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2409001725AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2409001725AT

10 Appendix

1. Duty Cycle

1.1 Test Result

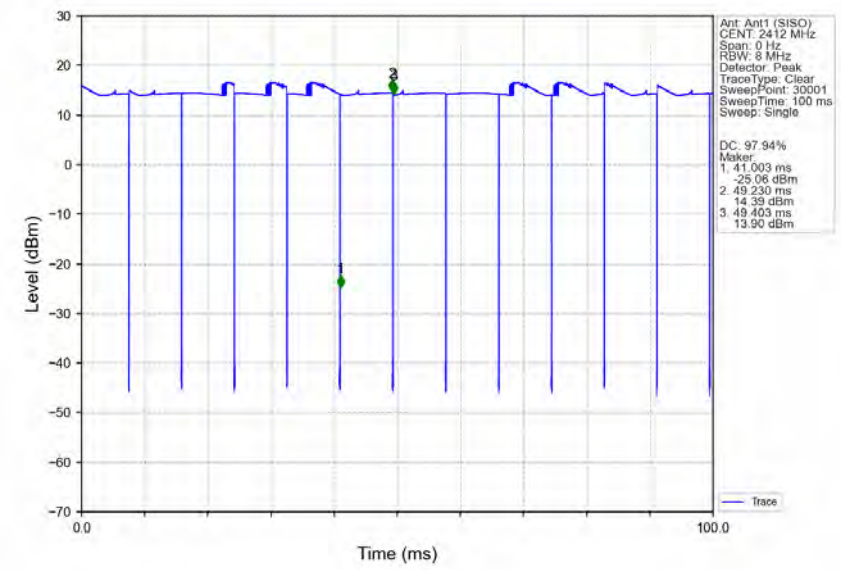
1.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.227	8.400	97.94	0.09	0.67
		2437	/	/	8.250	8.697	94.86	0.23	3.78
		2462	/	/	8.227	8.487	96.94	0.14	1.63
802.11g	SISO	2412	/	/	1.365	1.509	90.46	0.44	1.13
		2437	/	/	1.364	1.544	88.34	0.54	3.23
		2462	/	/	1.364	1.593	85.62	0.67	5.69
802.11n (HT20)	SISO	2412	/	/	1.276	1.456	87.64	0.57	3.38
		2437	/	/	1.280	1.514	84.54	0.73	5.31
		2462	/	/	1.279	1.506	84.93	0.71	4.86
802.11n (HT40)	SISO	2422	/	/	0.636	0.855	74.39	1.29	8.76
		2437	/	/	0.638	0.873	73.08	1.36	10.30
		2452	/	/	0.638	0.864	73.84	1.32	9.52
802.11ax (HEW20)	SISO	2412	RU242	Left	1.000	1.126	88.81	0.52	0.03
		2437	RU242	Left	0.999	1.219	81.95	0.86	6.53
		2462	RU242	Left	0.999	1.219	81.95	0.86	6.54
802.11ax (HEW40)	SISO	2422	RU484	Left	0.533	0.693	76.91	1.14	4.25
		2437	RU484	Left	0.533	0.750	71.07	1.48	9.70
		2452	RU484	Left	0.533	0.750	71.07	1.48	9.64

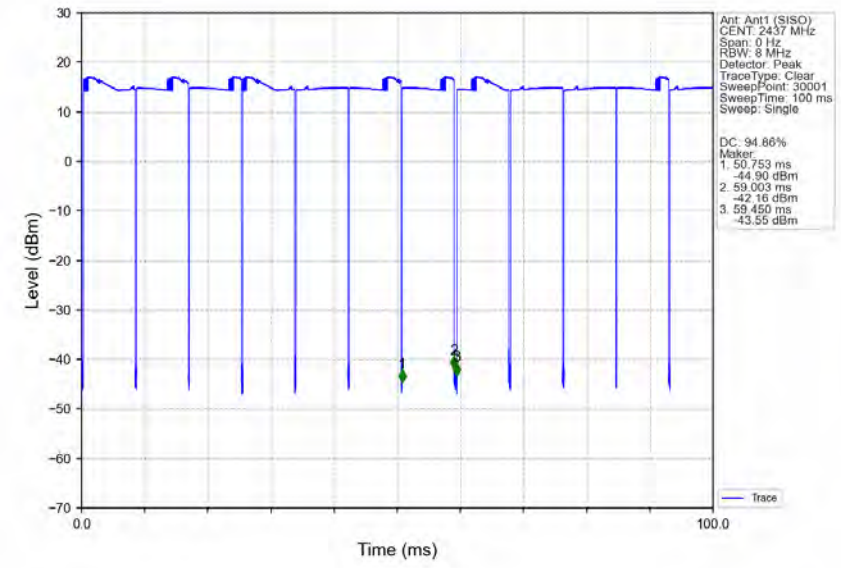
1.2 Test Graph

1.2.1 Ant1

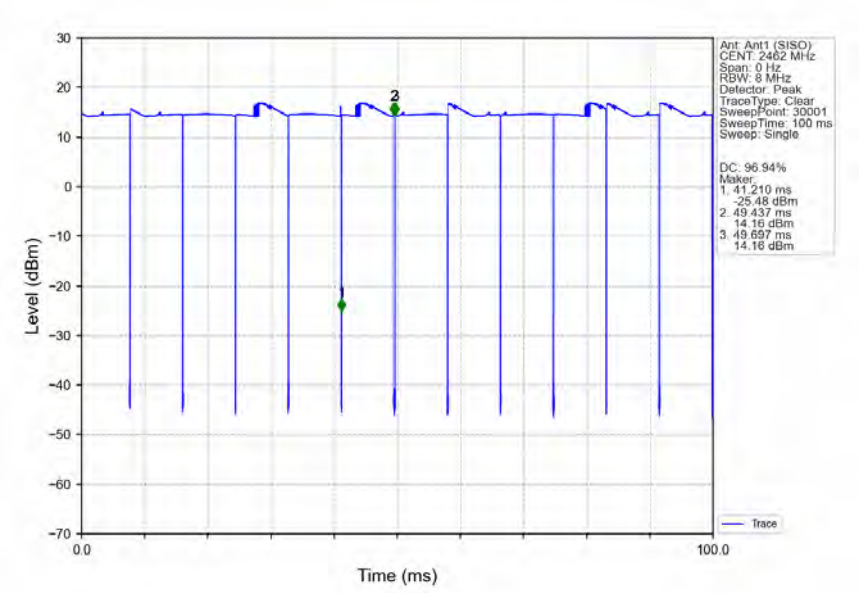
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



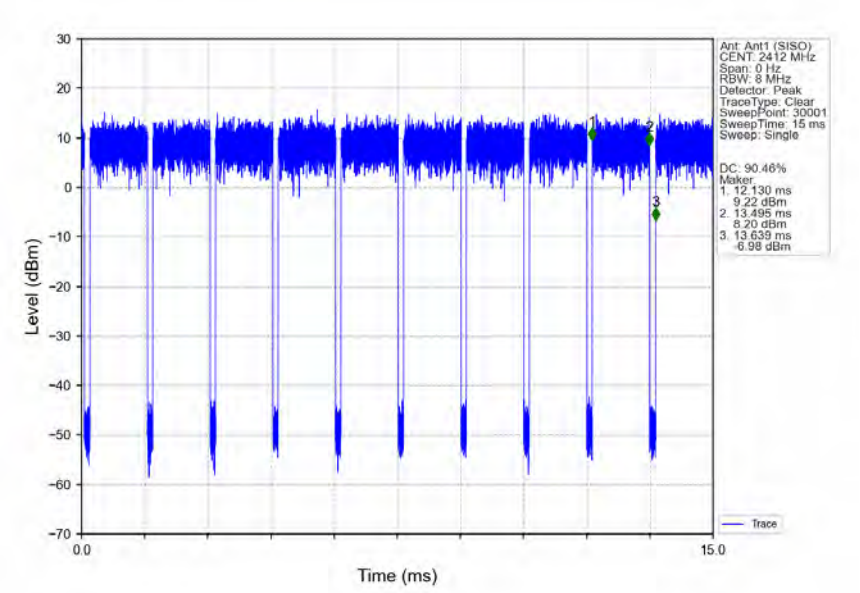
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



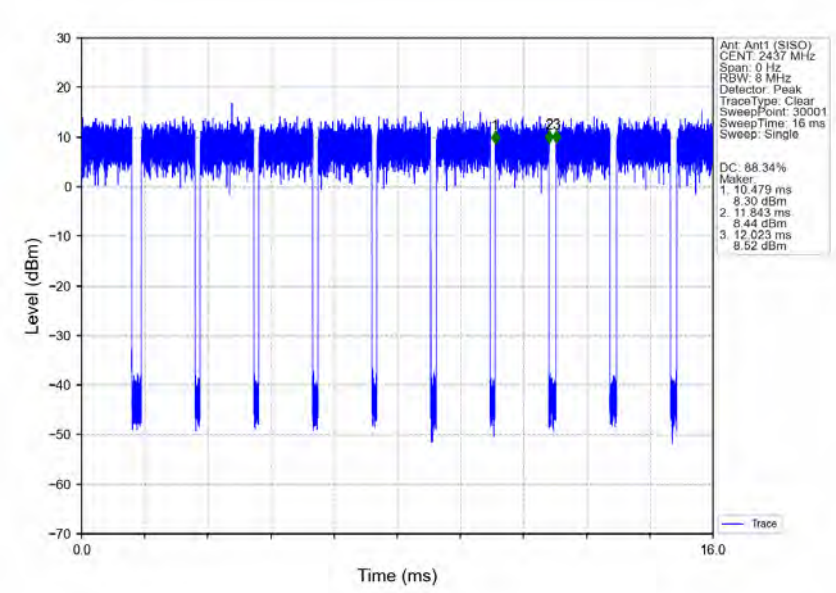
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



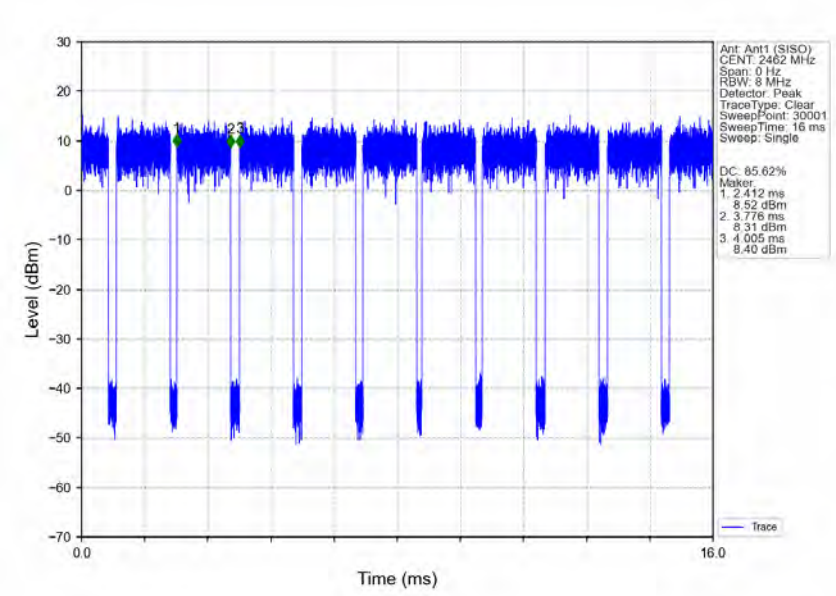
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



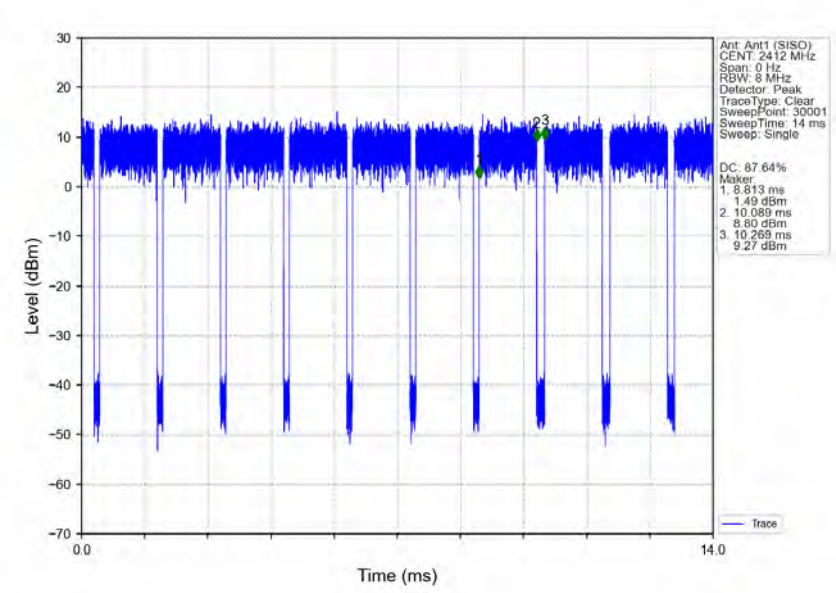
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



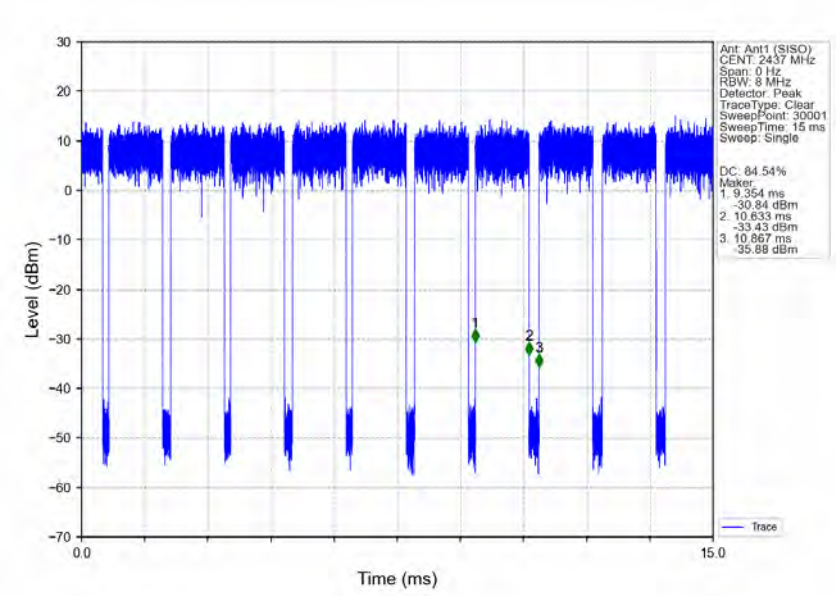
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



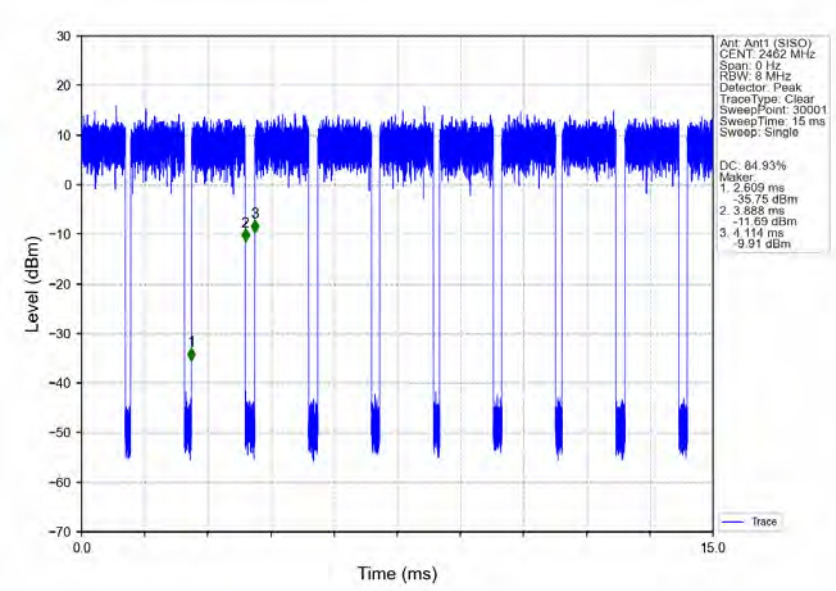
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



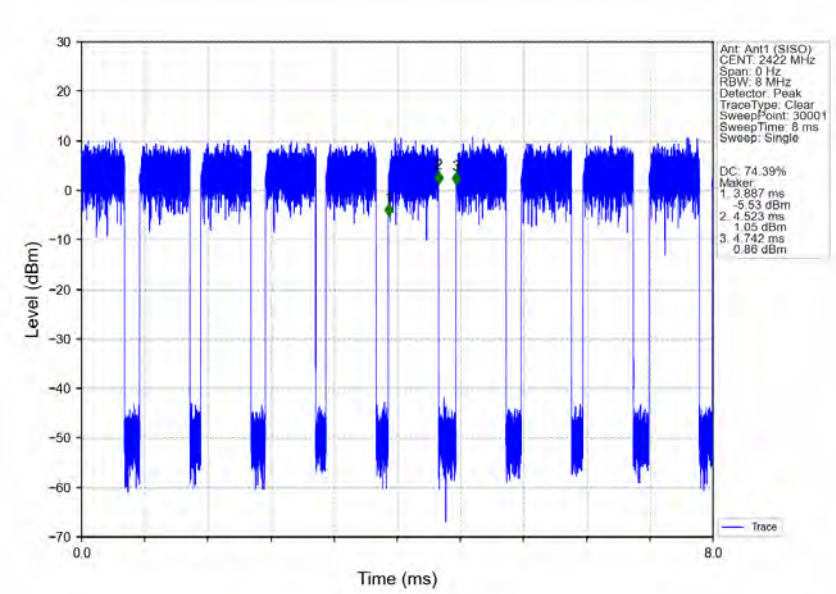
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



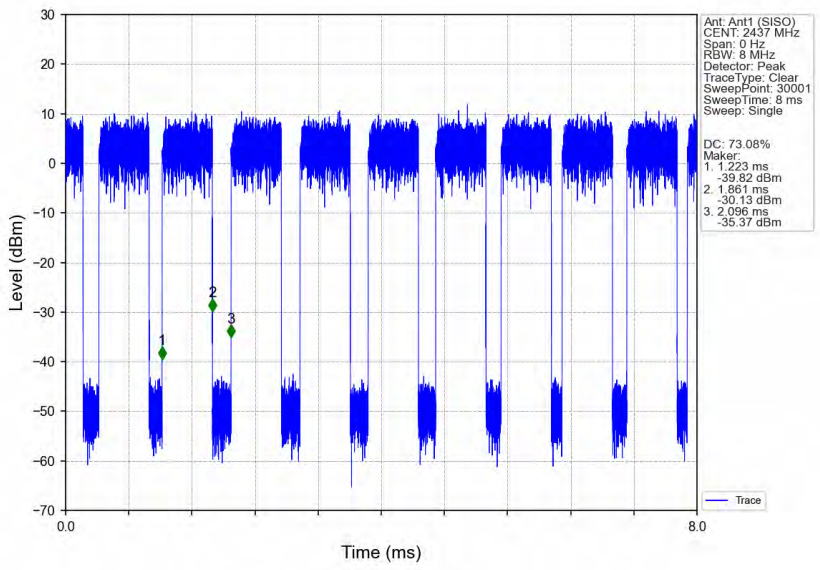
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



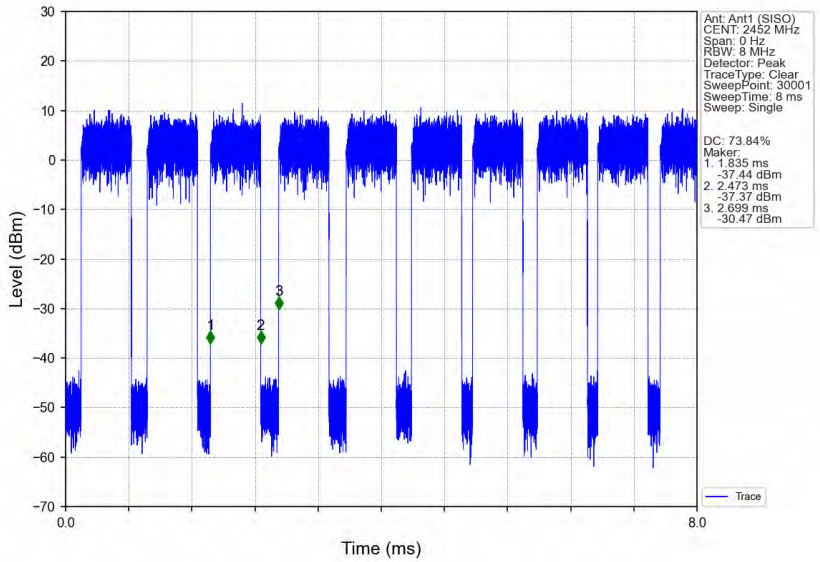
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



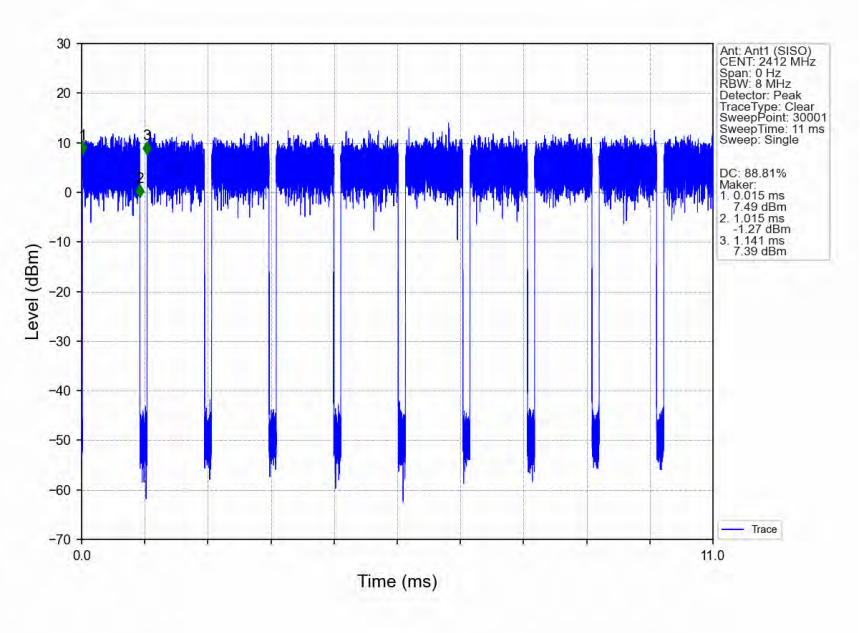
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



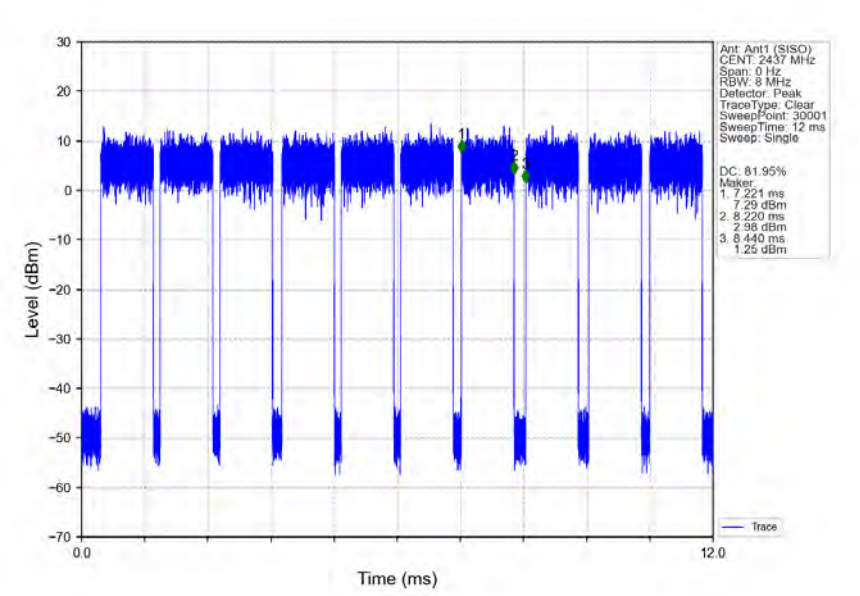
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



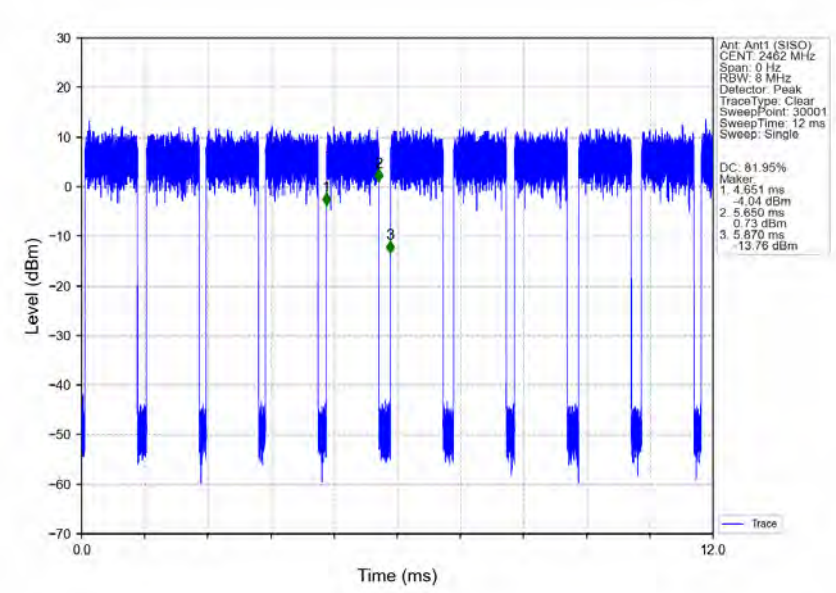
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



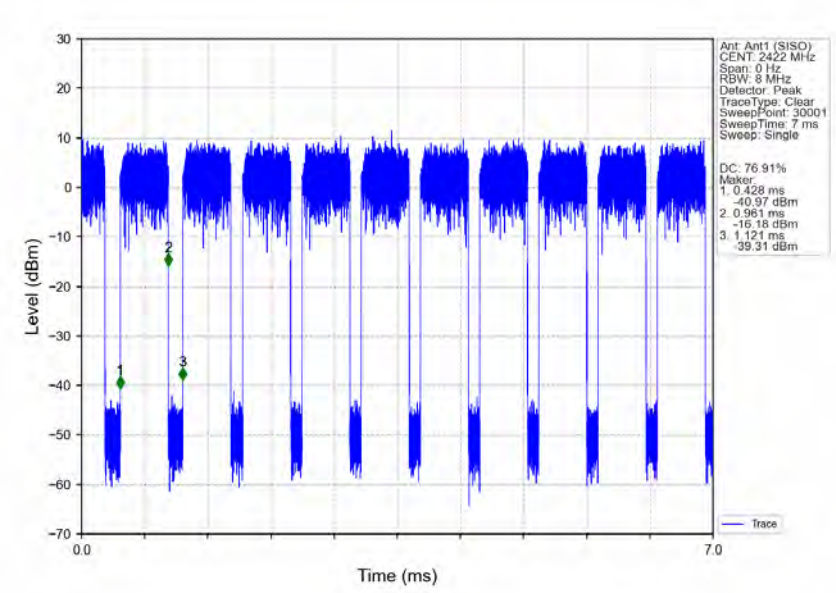
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



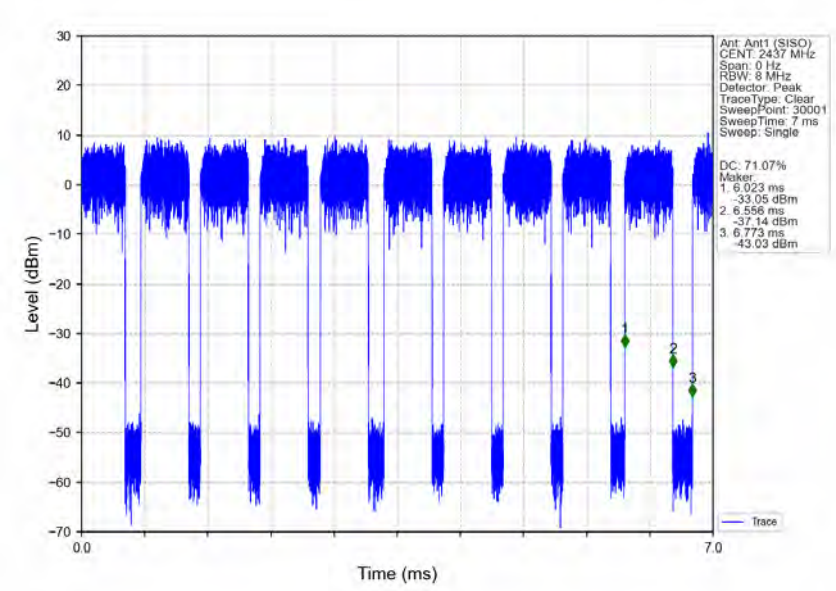
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



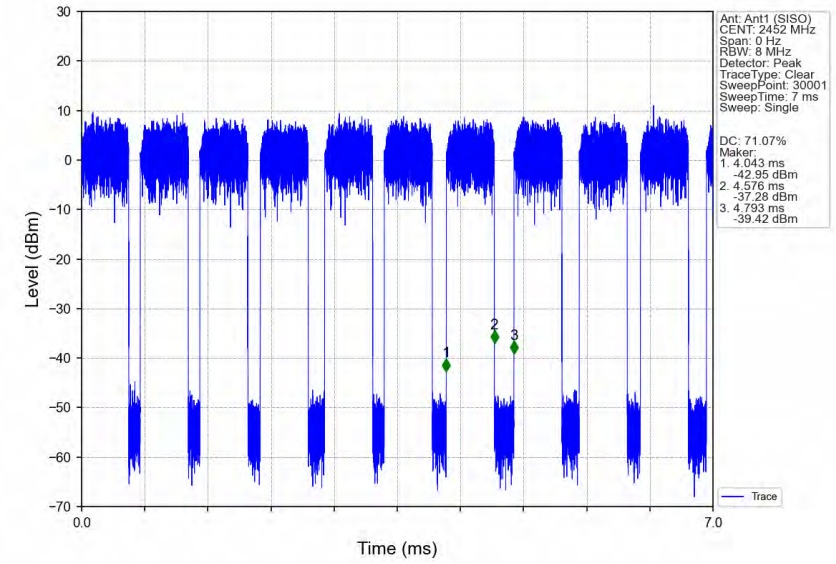
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	14.989	/	Pass
		2437	/	/	1	15.048	/	Pass
		2462	/	/	1	15.014	/	Pass
802.11g	SISO	2412	/	/	1	18.617	/	Pass
		2437	/	/	1	18.593	/	Pass
		2462	/	/	1	18.608	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	19.557	/	Pass
		2437	/	/	1	19.633	/	Pass
		2462	/	/	1	19.485	/	Pass
802.11n (HT40)	SISO	2422	/	/	1	37.705	/	Pass
		2437	/	/	1	37.710	/	Pass
		2452	/	/	1	37.648	/	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	1	19.863	/	Pass
		2437	RU242	Left	1	19.964	/	Pass
		2462	RU242	Left	1	19.902	/	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	1	38.531	/	Pass
		2437	RU484	Left	1	38.685	/	Pass
		2452	RU484	Left	1	38.491	/	Pass

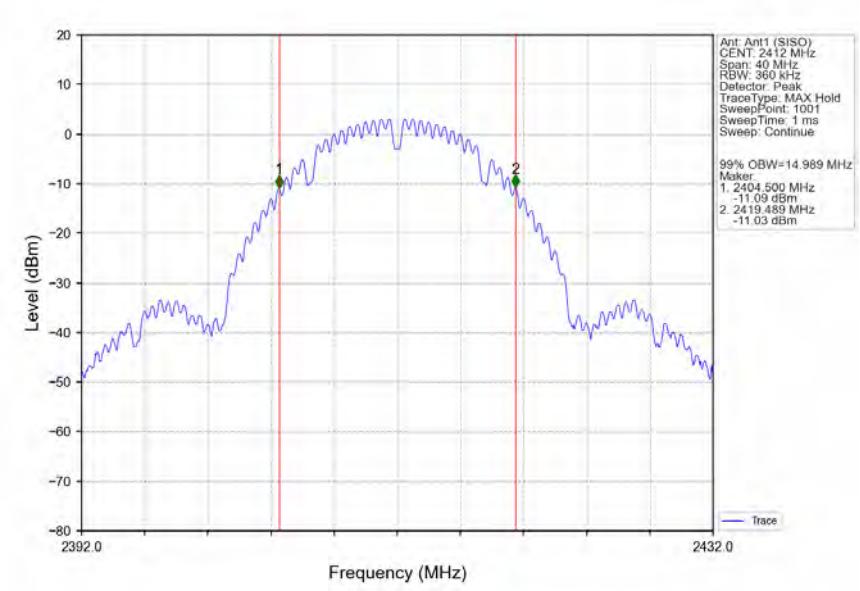
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	10.080	>=0.5	Pass
		2437	/	/	1	10.077	>=0.5	Pass
		2462	/	/	1	10.059	>=0.5	Pass
802.11g	SISO	2412	/	/	1	16.072	>=0.5	Pass
		2437	/	/	1	16.315	>=0.5	Pass
		2462	/	/	1	16.306	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.281	>=0.5	Pass
		2437	/	/	1	17.070	>=0.5	Pass
		2462	/	/	1	17.536	>=0.5	Pass
802.11n (HT40)	SISO	2422	/	/	1	35.490	>=0.5	Pass
		2437	/	/	1	35.736	>=0.5	Pass
		2452	/	/	1	35.493	>=0.5	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	1	18.351	>=0.5	Pass
		2437	RU242	Left	1	18.255	>=0.5	Pass
		2462	RU242	Left	1	18.410	>=0.5	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	1	36.431	>=0.5	Pass
		2437	RU484	Left	1	36.700	>=0.5	Pass
		2452	RU484	Left	1	37.147	>=0.5	Pass

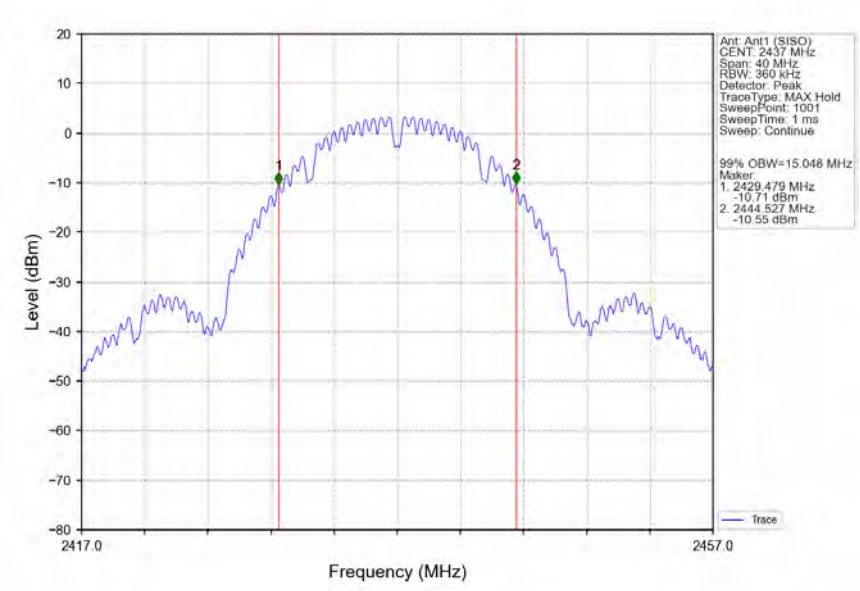
2.2 Test Graph

2.2.1 OBW

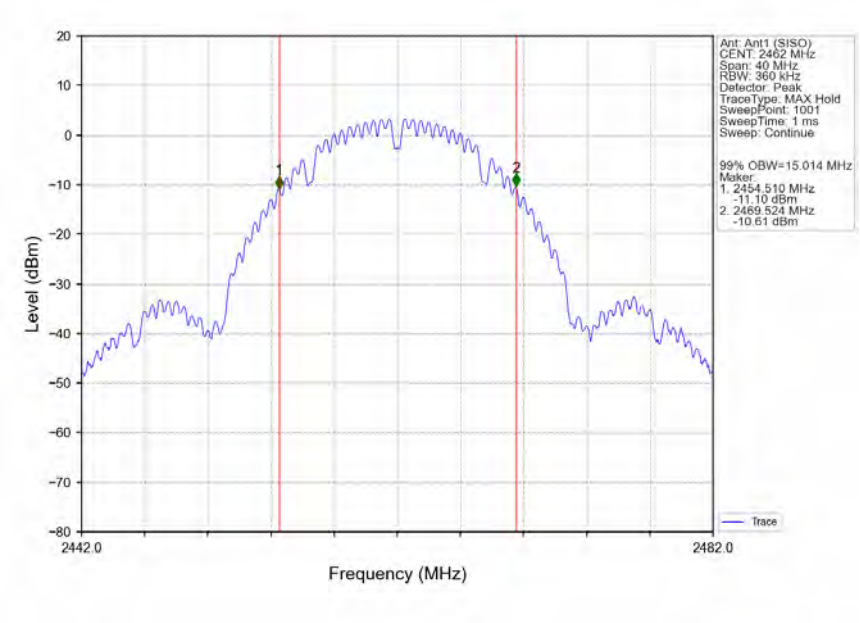
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



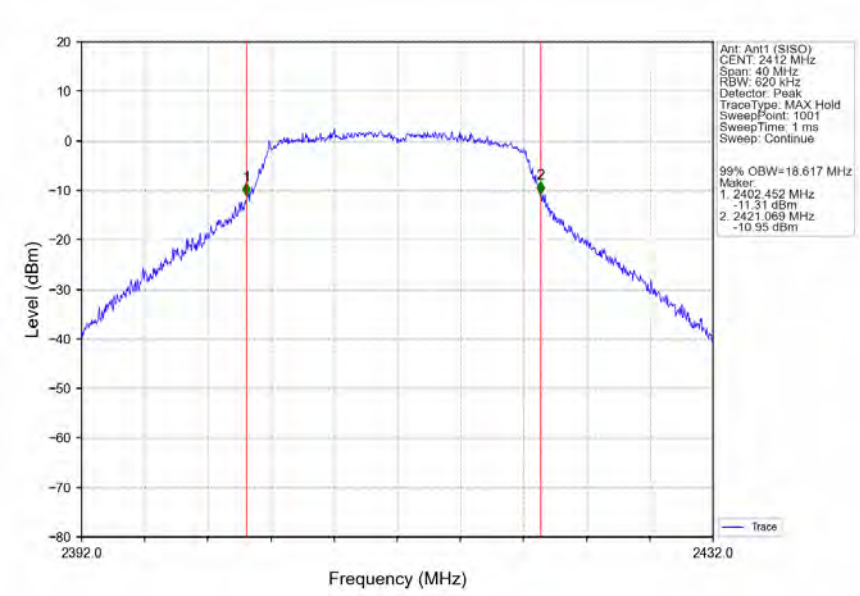
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



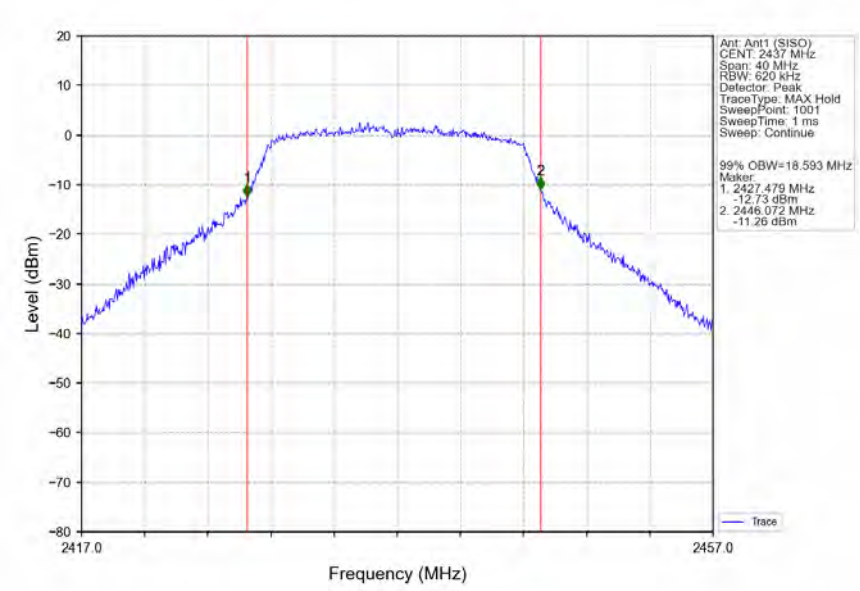
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



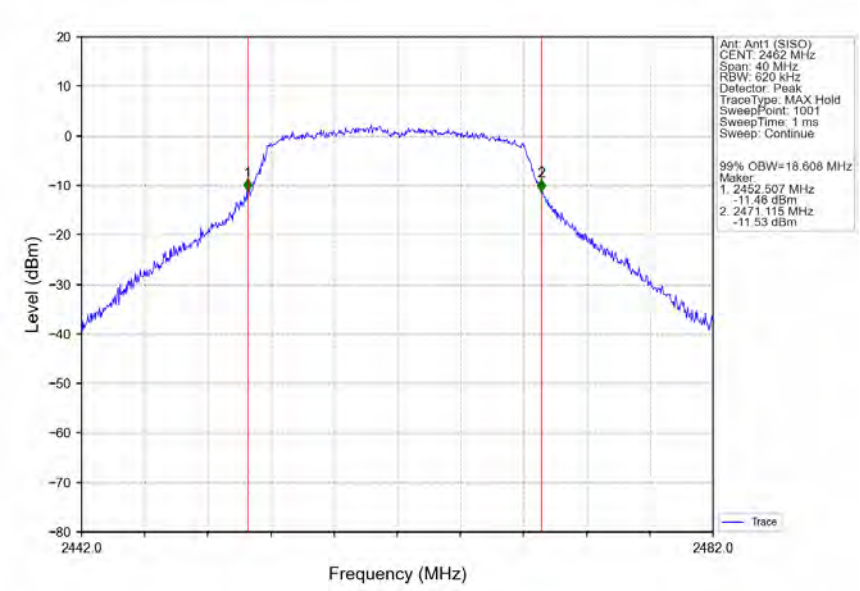
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



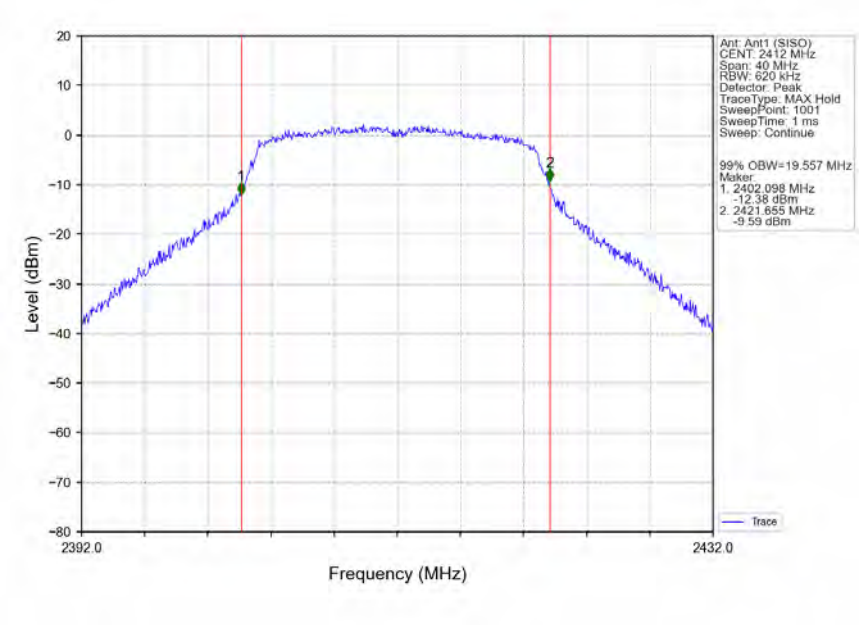
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



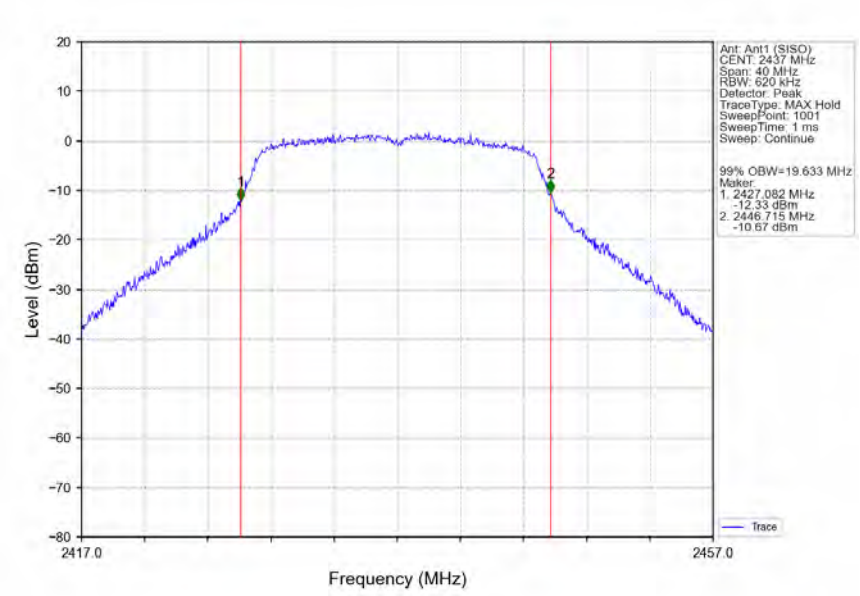
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



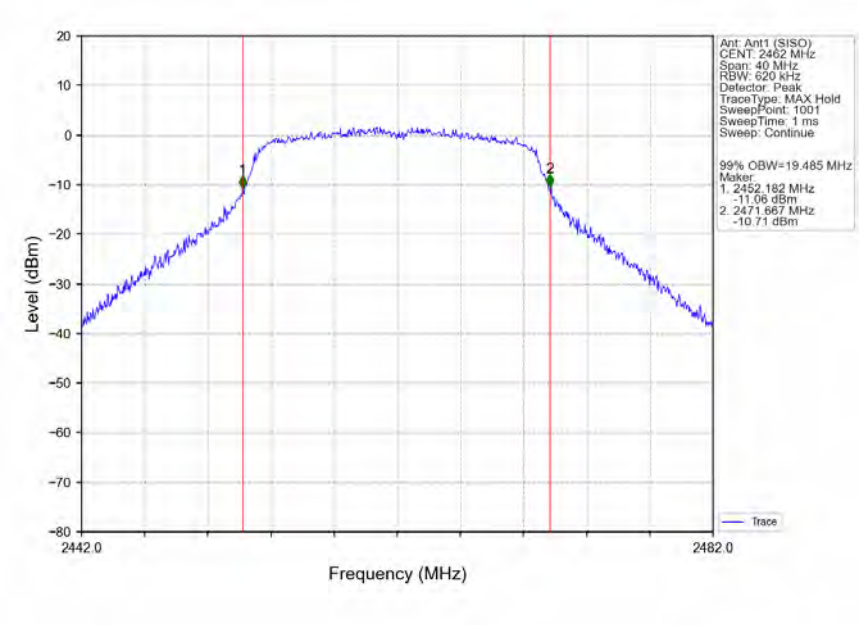
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



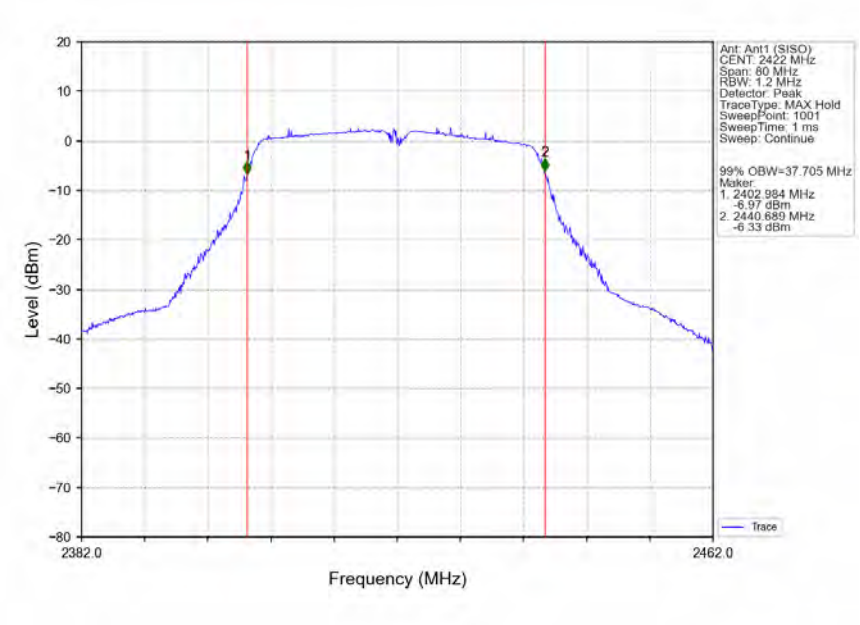
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



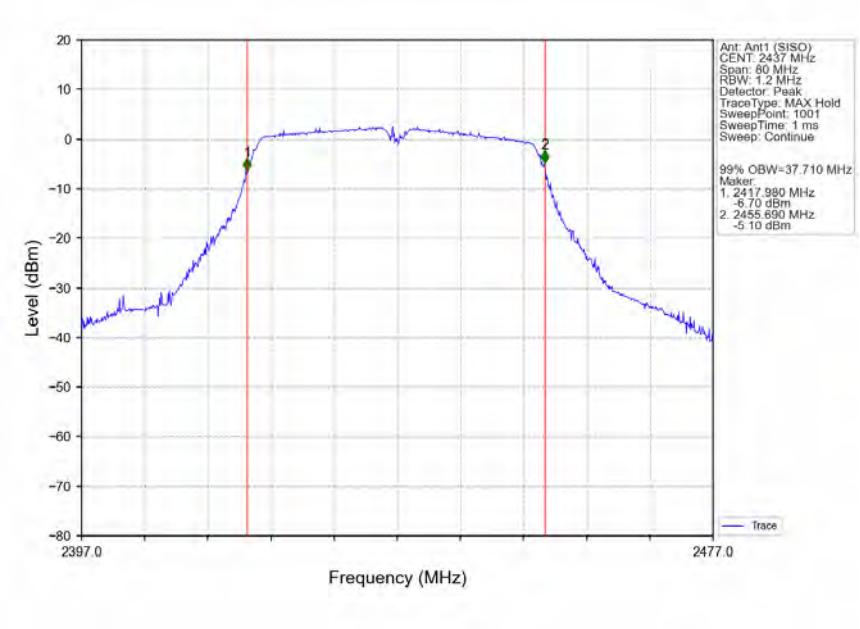
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



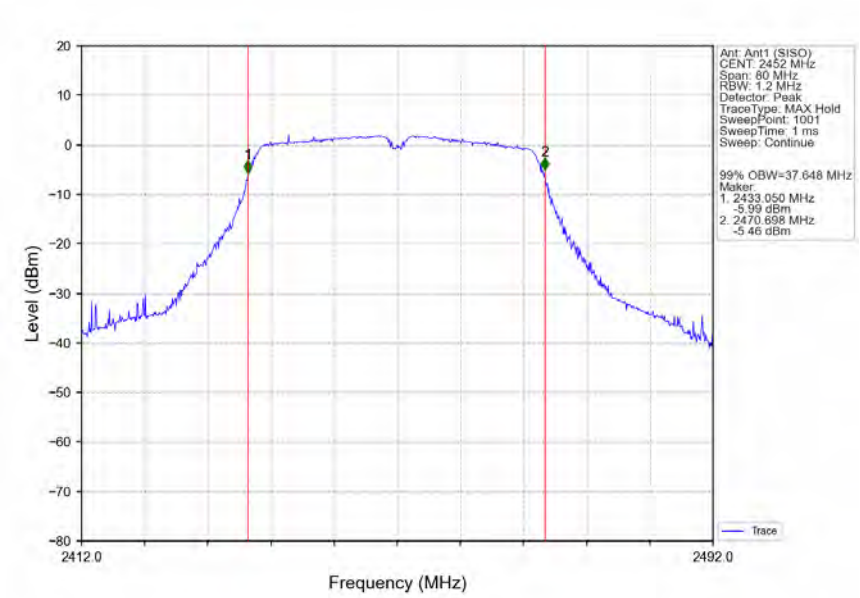
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



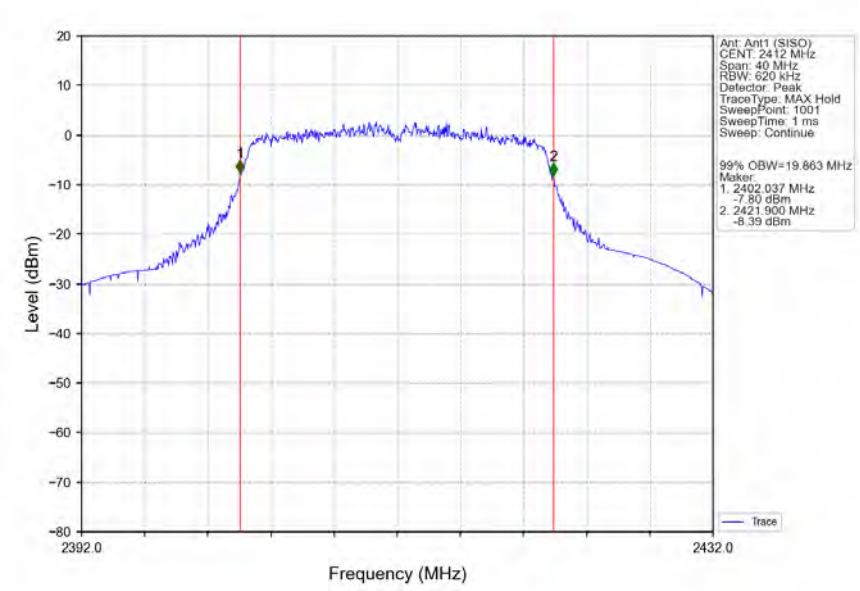
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



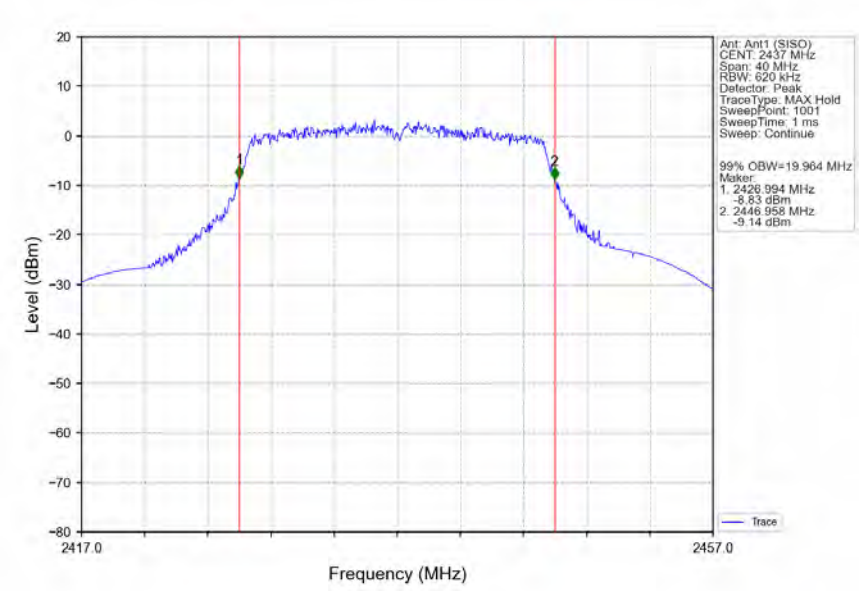
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



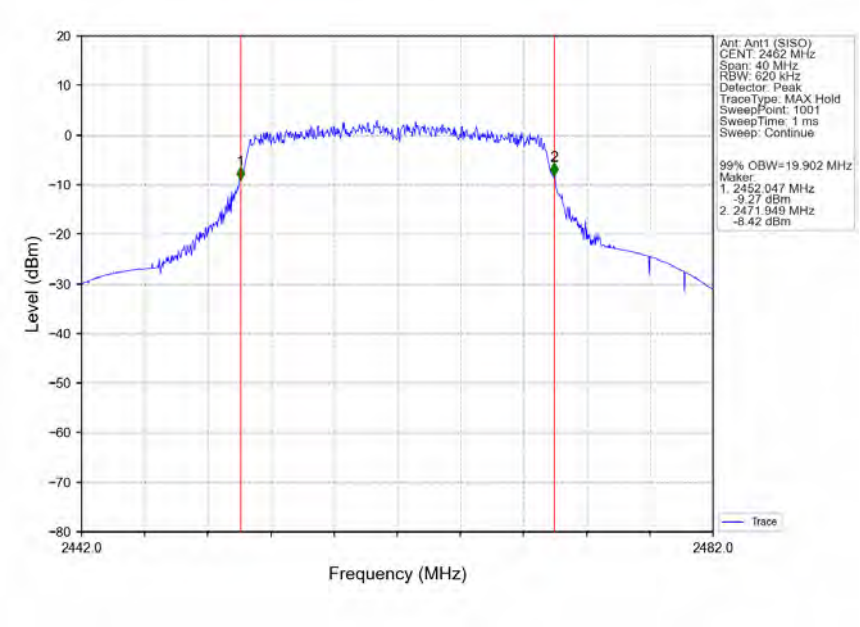
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



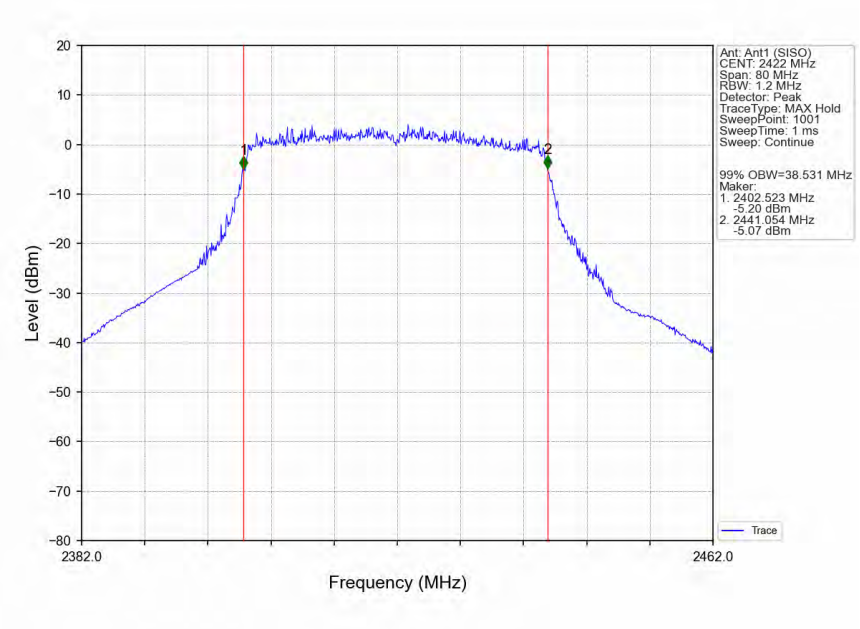
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



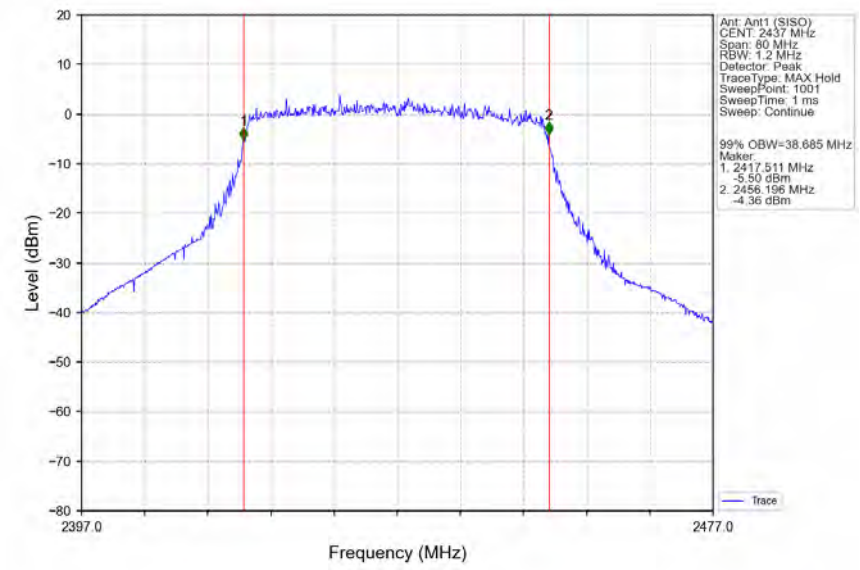
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



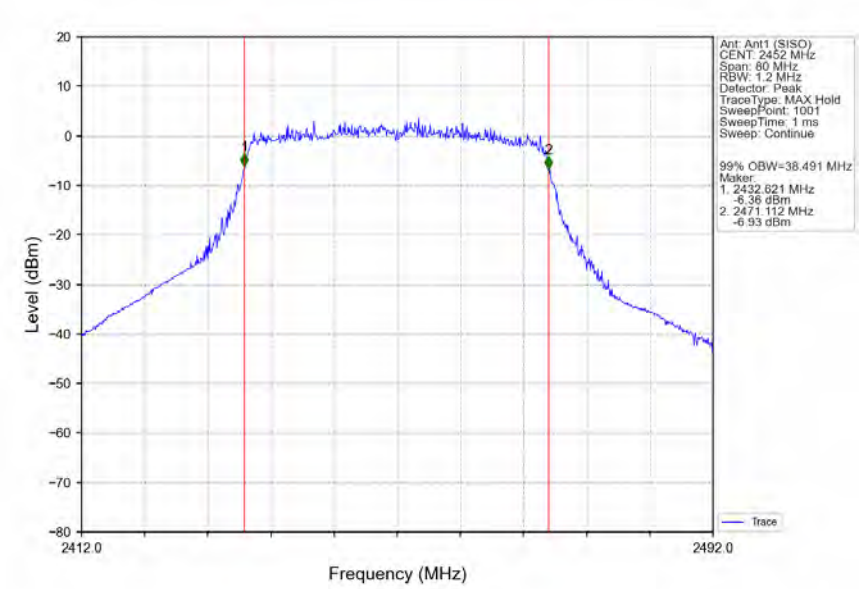
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV

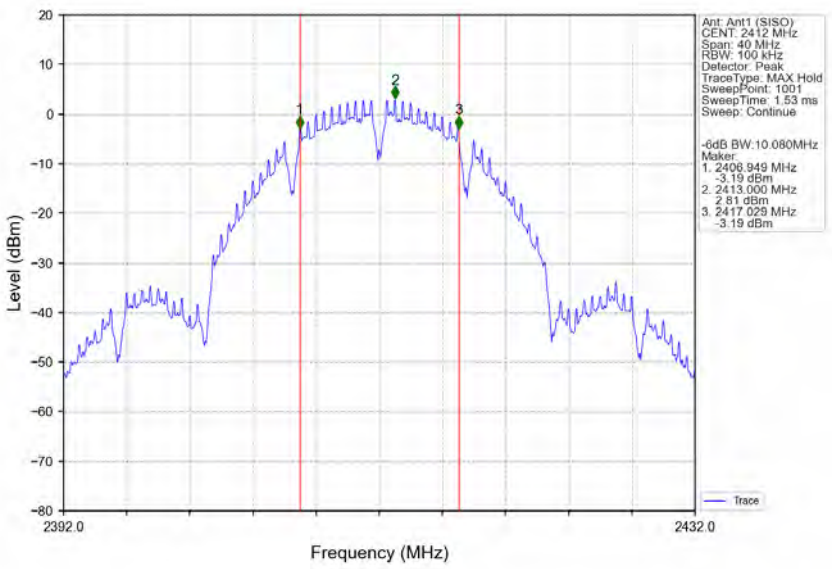


802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV

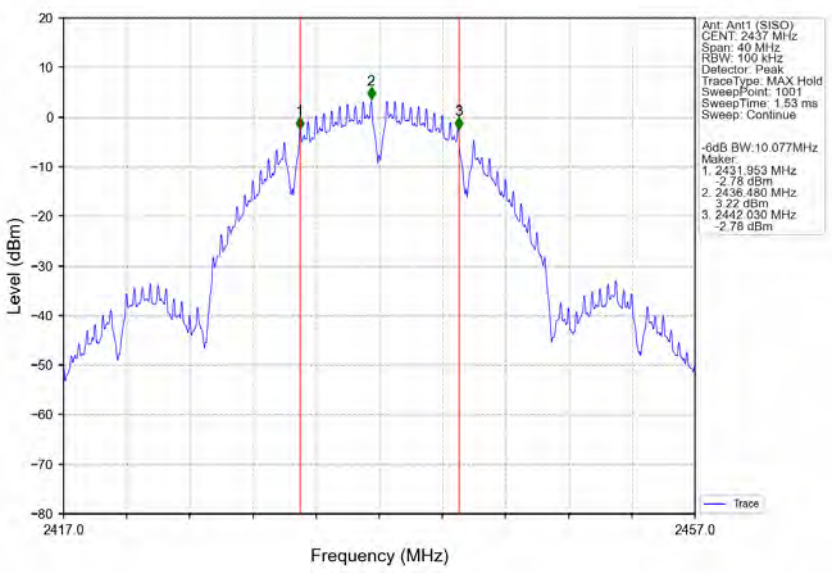


2.2.2 6dB BW

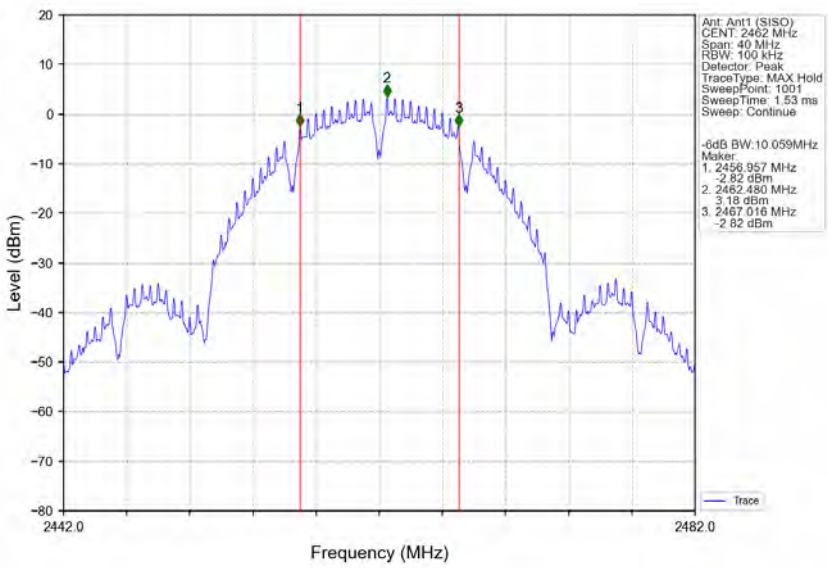
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



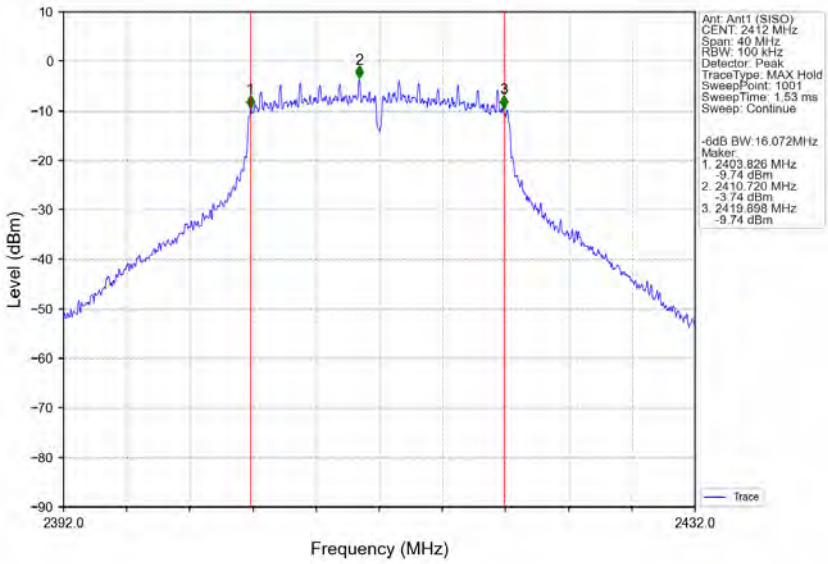
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



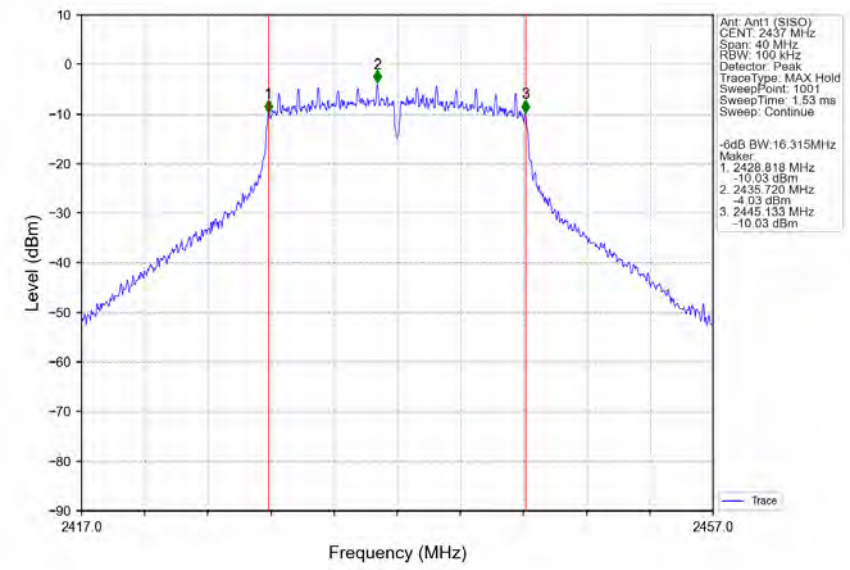
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



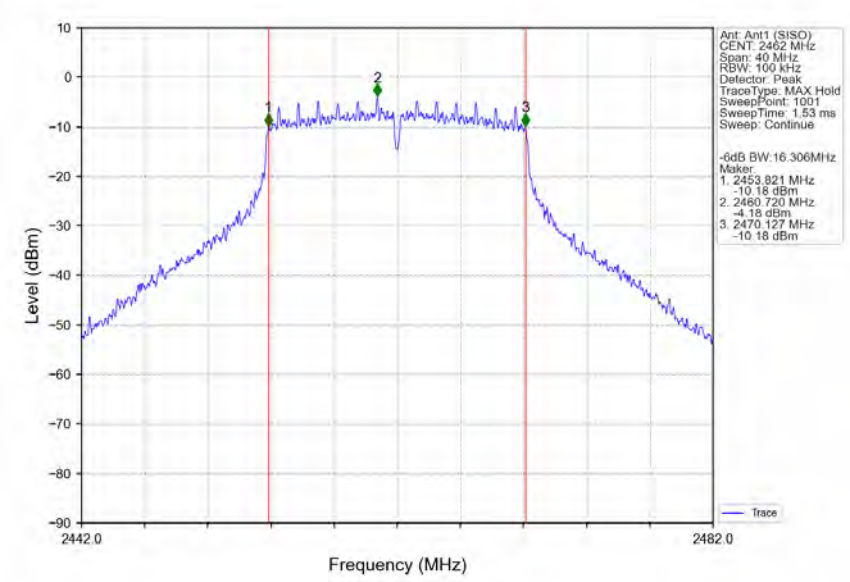
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



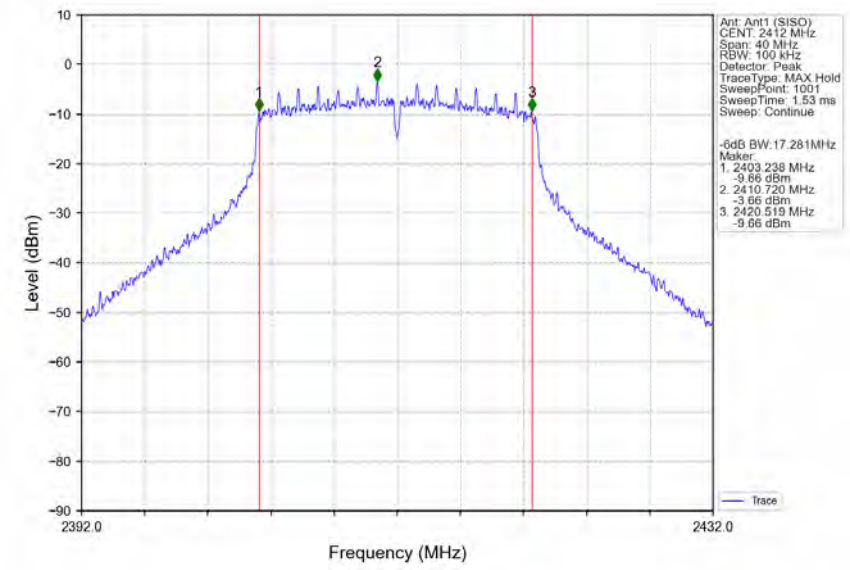
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



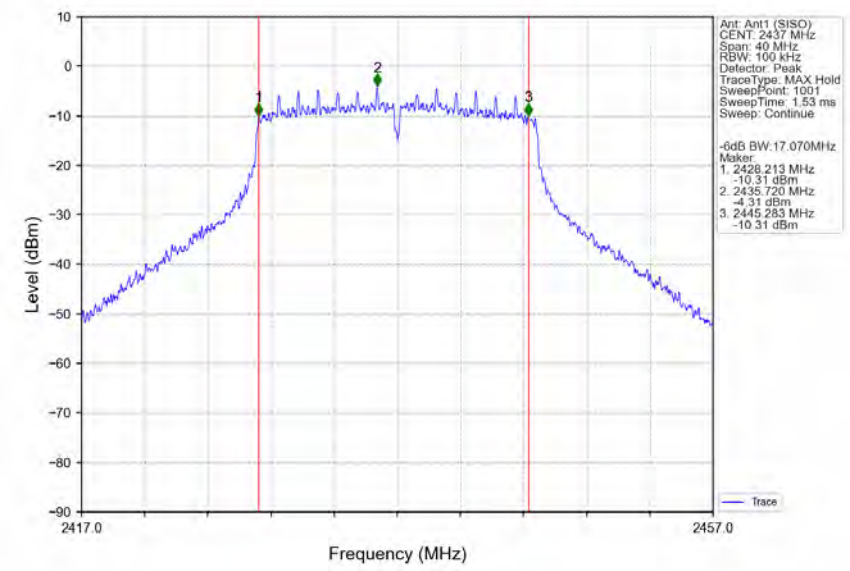
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



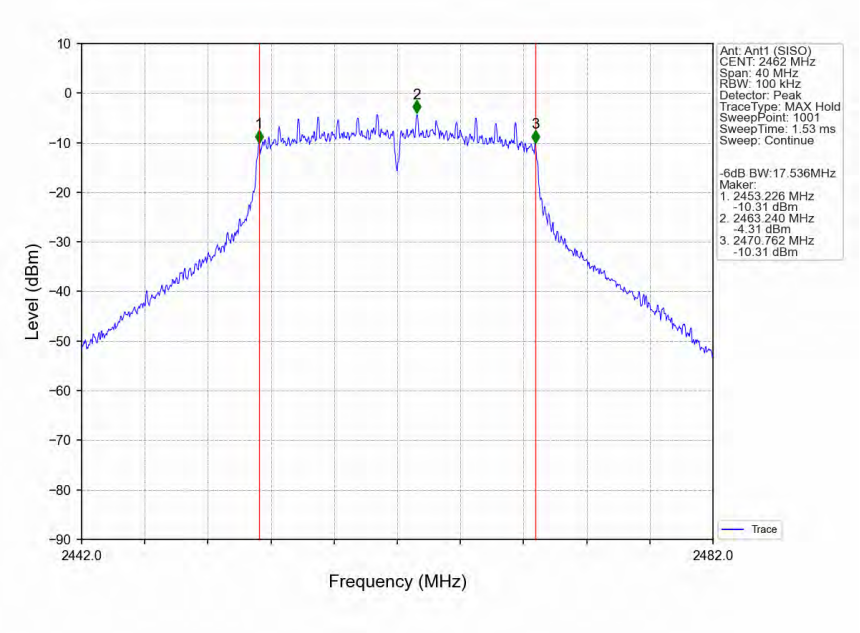
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



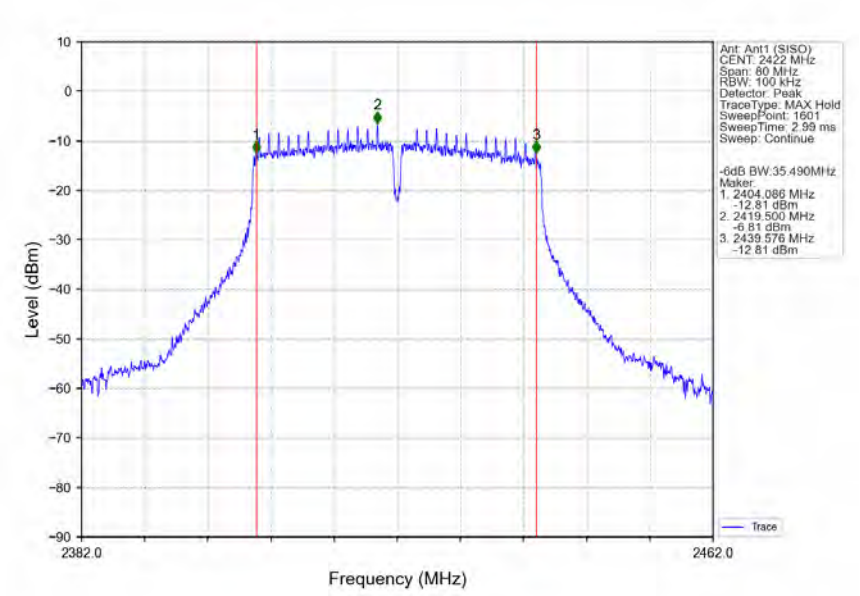
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



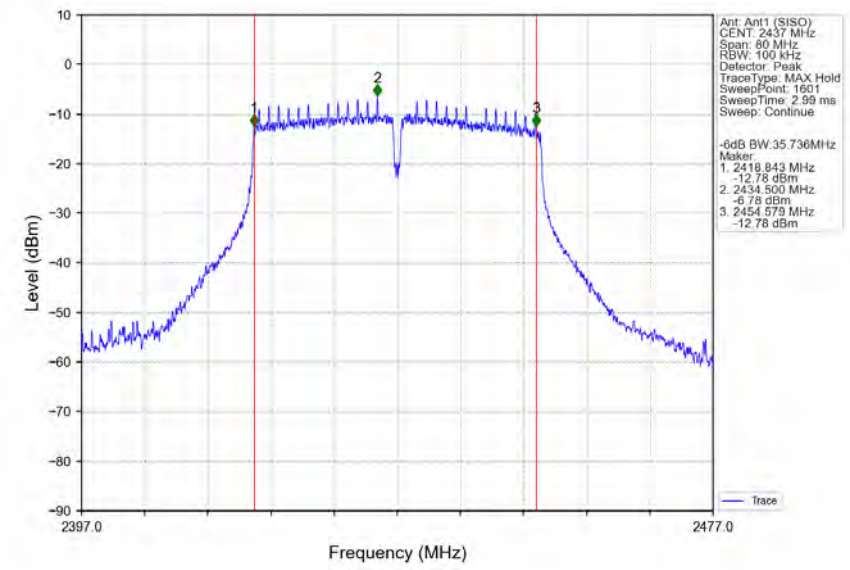
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



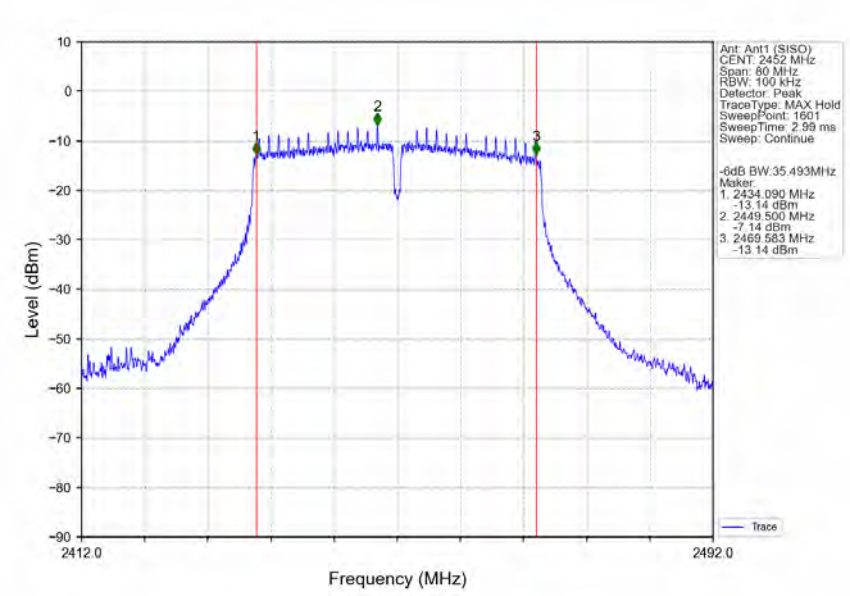
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



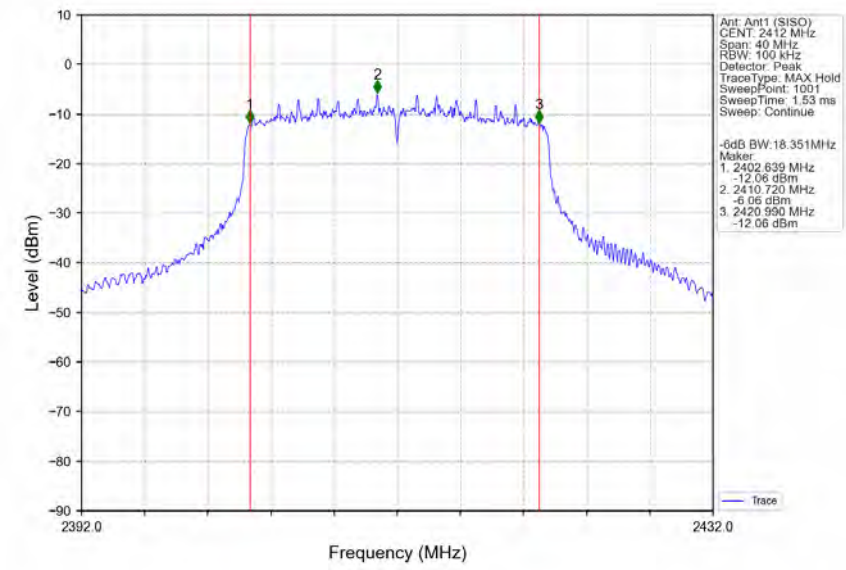
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



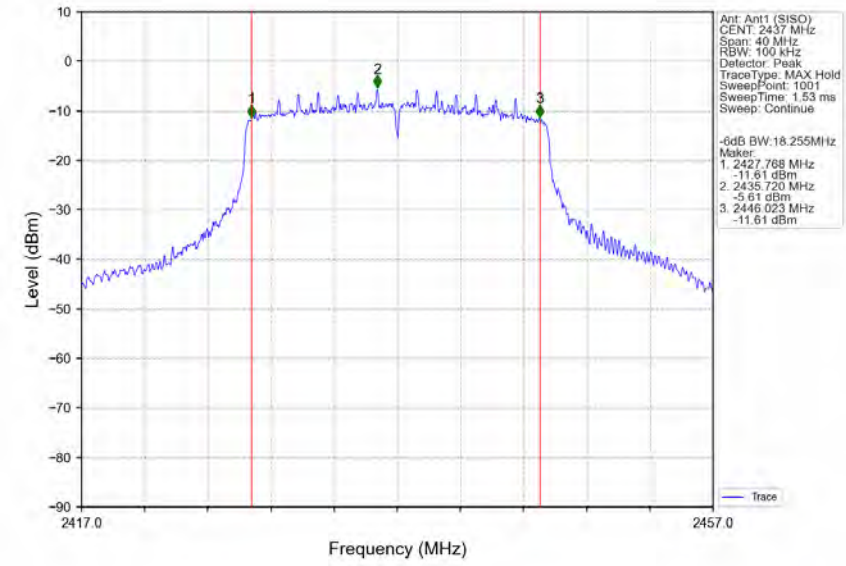
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



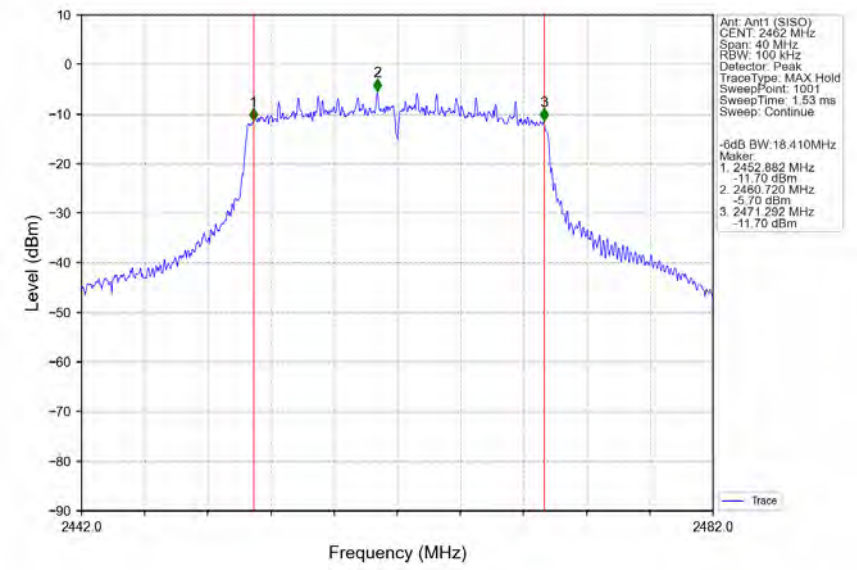
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



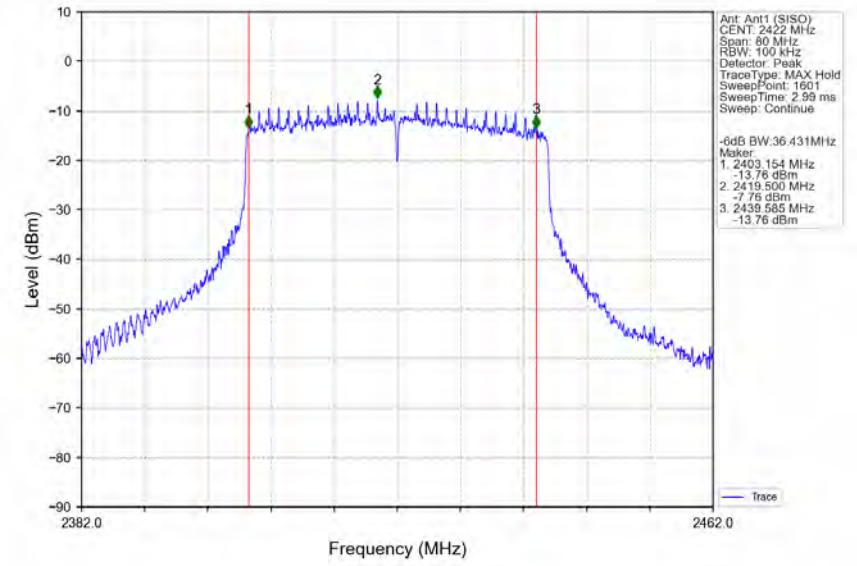
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



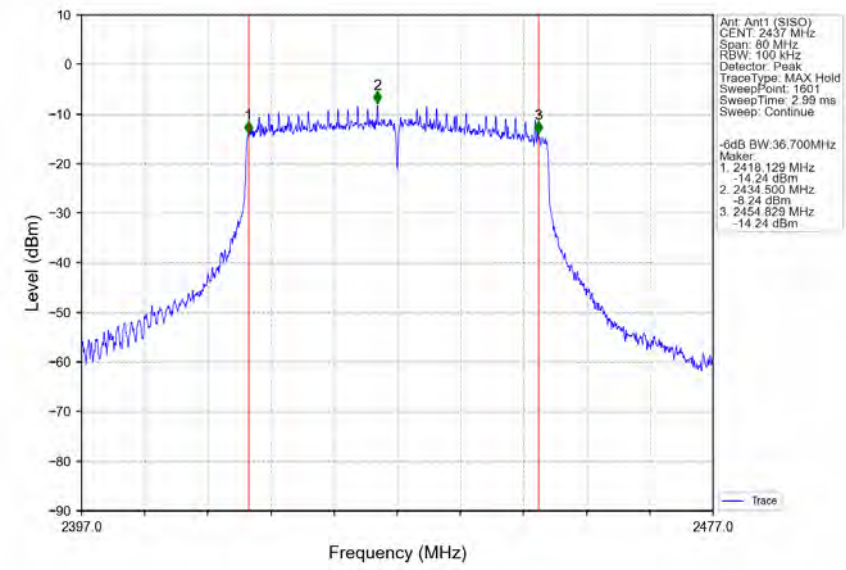
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



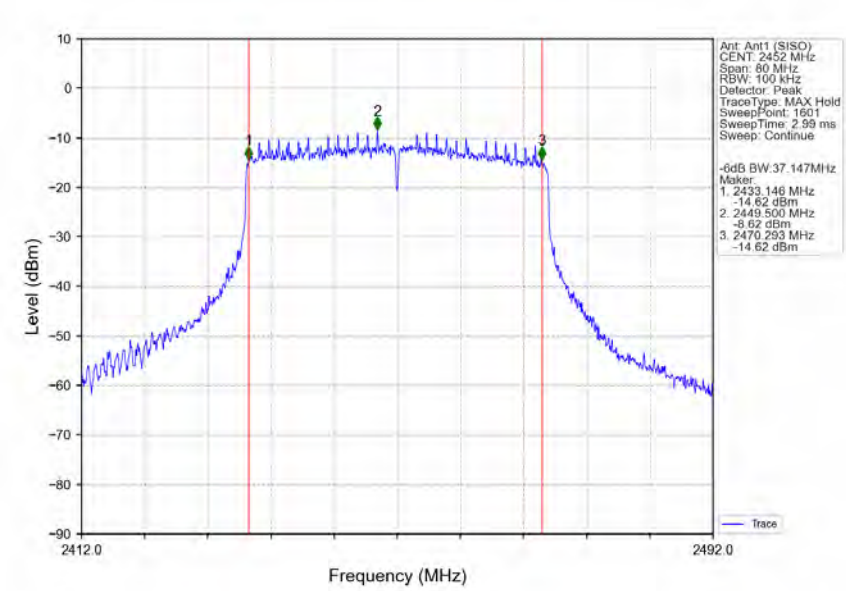
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Peak Conducted Output Power (dBm)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	14.23	<=30	Pass
		2437	/	/	14.51	<=30	Pass
		2462	/	/	14.46	<=30	Pass
802.11g	SISO	2412	/	/	14.96	<=30	Pass
		2437	/	/	14.80	<=30	Pass
		2462	/	/	14.68	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	14.97	<=30	Pass
		2437	/	/	14.53	<=30	Pass
		2462	/	/	14.63	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	14.52	<=30	Pass
		2437	/	/	14.64	<=30	Pass
		2452	/	/	14.31	<=30	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	14.15	<=30	Pass
		2437	RU242	Left	14.51	<=30	Pass
		2462	RU242	Left	14.37	<=30	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	14.85	<=30	Pass
		2437	RU484	Left	14.40	<=30	Pass
		2452	RU484	Left	14.10	<=30	Pass
Note1: Antenna Gain: Ant1: 3.80dBi;							

3.1.2 EIRP

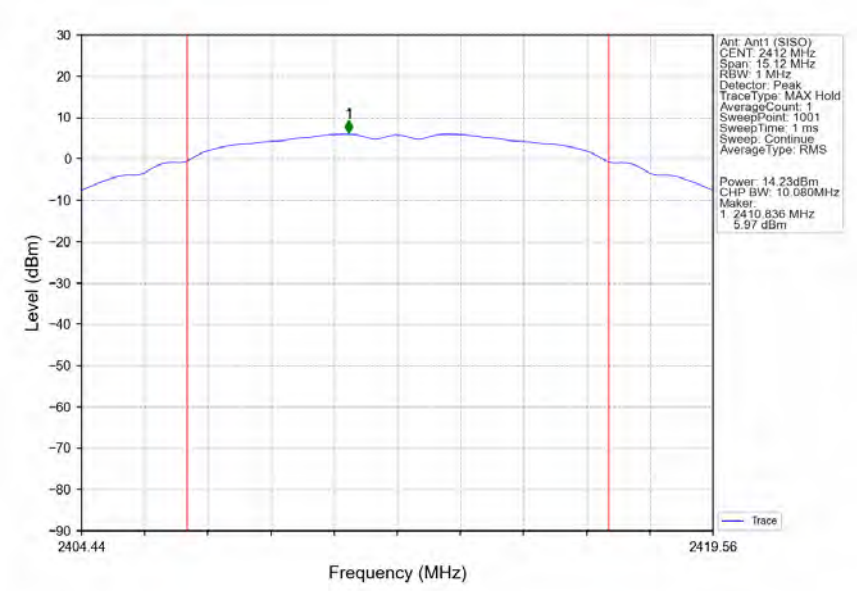
Mode	TX Type	Frequency (MHz)	RU	RU Pos	E.I.R.P (dBm)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	18.03	<=36.02	Pass
		2437	/	/	18.31	<=36.02	Pass
		2462	/	/	18.26	<=36.02	Pass
802.11g	SISO	2412	/	/	18.76	<=36.02	Pass
		2437	/	/	18.60	<=36.02	Pass
		2462	/	/	18.48	<=36.02	Pass
802.11n (HT20)	SISO	2412	/	/	18.77	<=36.02	Pass
		2437	/	/	18.33	<=36.02	Pass
		2462	/	/	18.43	<=36.02	Pass
802.11n (HT40)	SISO	2422	/	/	18.32	<=36.02	Pass
		2437	/	/	18.44	<=36.02	Pass
		2452	/	/	18.11	<=36.02	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	17.95	<=36.02	Pass
		2437	RU242	Left	18.31	<=36.02	Pass
		2462	RU242	Left	18.17	<=36.02	Pass
802.11ax	SISO	2422	RU484	Left	18.65	<=36.02	Pass

(HEW40)		2437	RU484	Left	18.20	<=36.02	Pass
		2452	RU484	Left	17.90	<=36.02	Pass
Note1: Antenna Gain: Ant1: 3.80dBi; Note2: E.I.R.P = Measured Power + Antenna Gain							

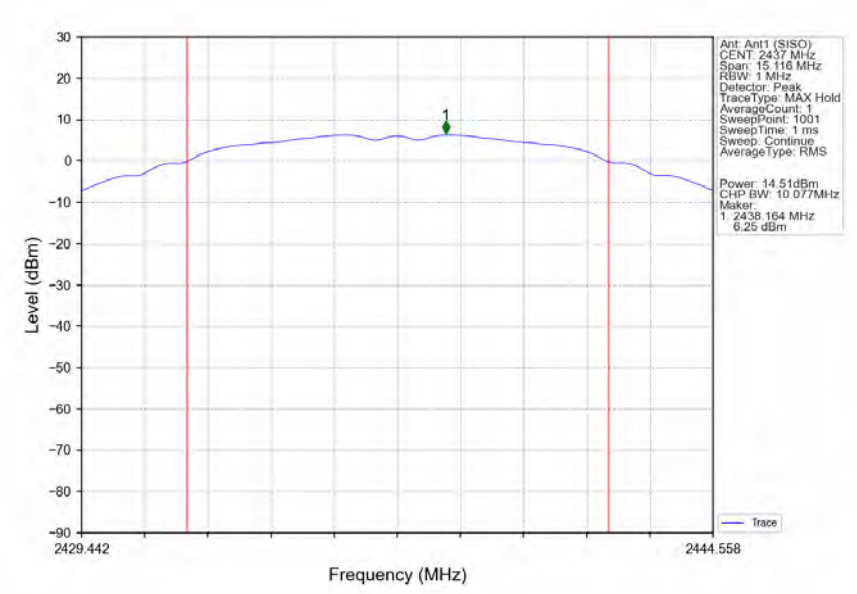
3.2 Test Graph

3.2.1 Power

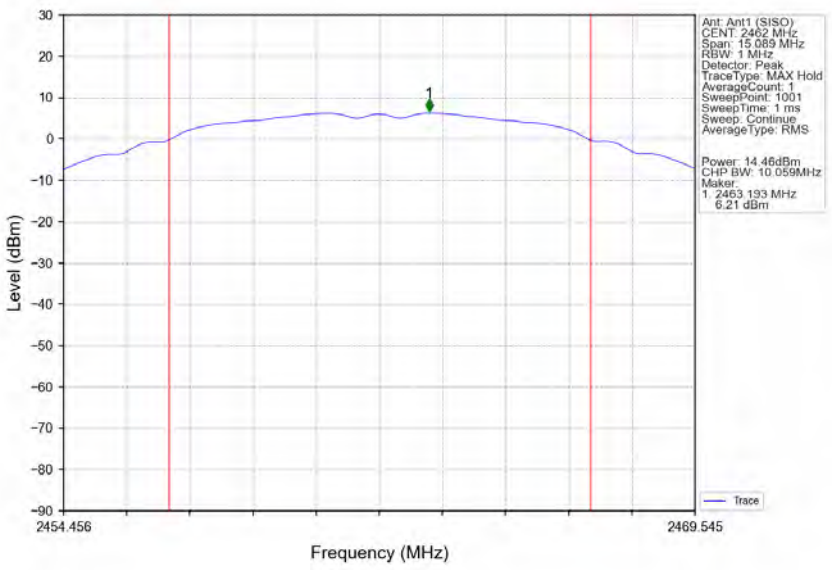
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



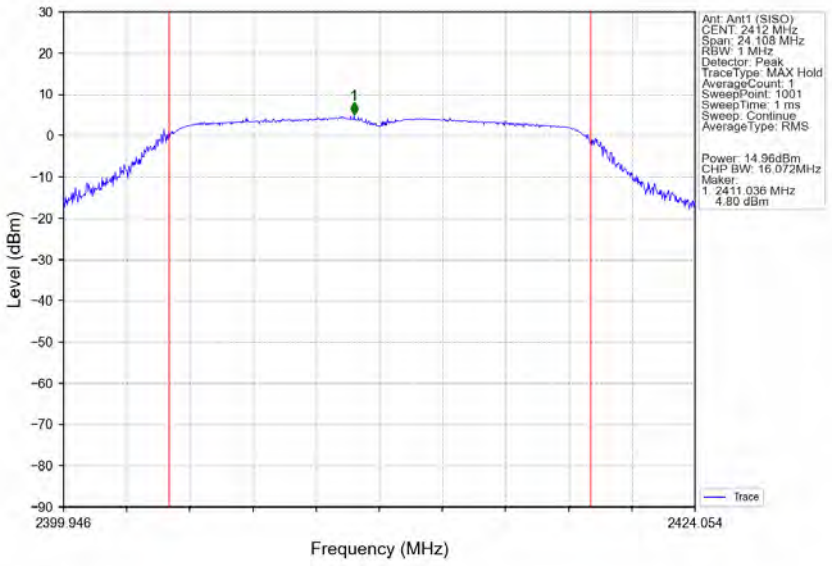
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



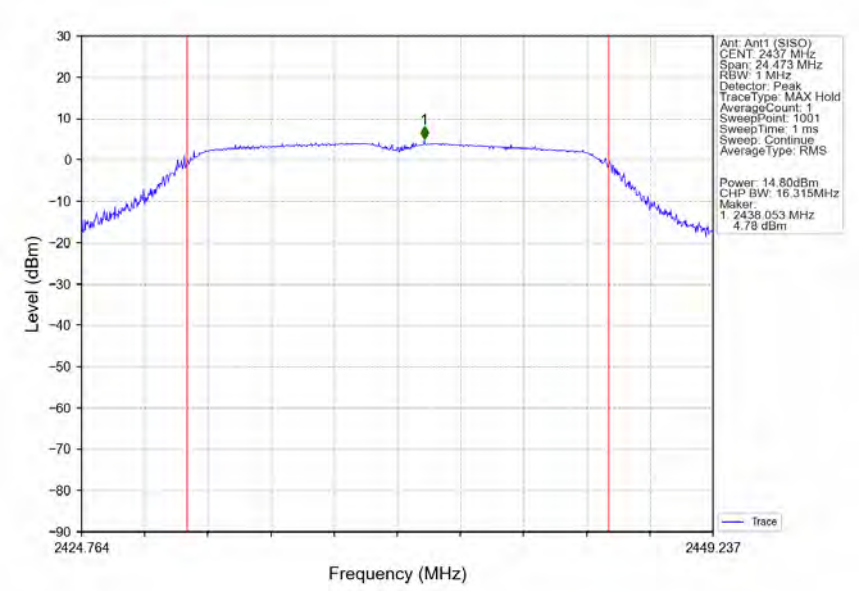
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



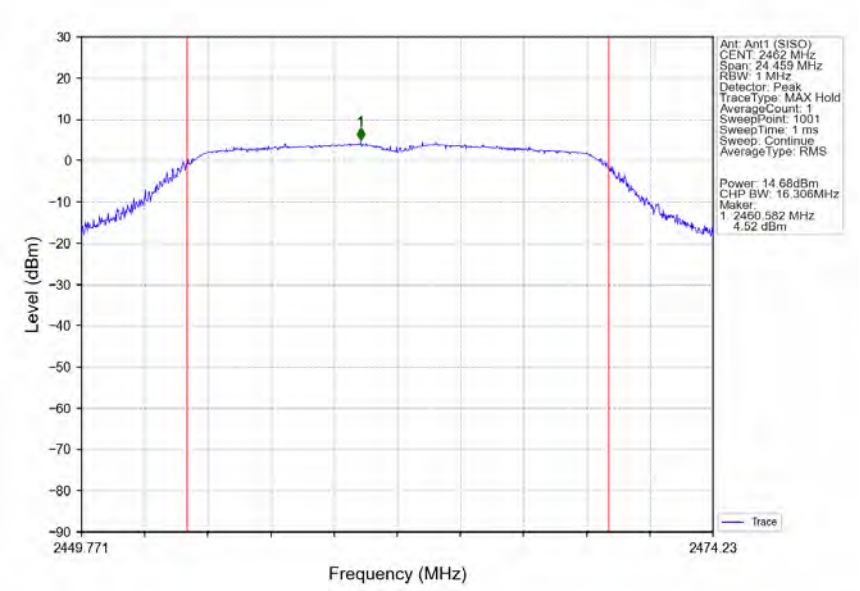
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



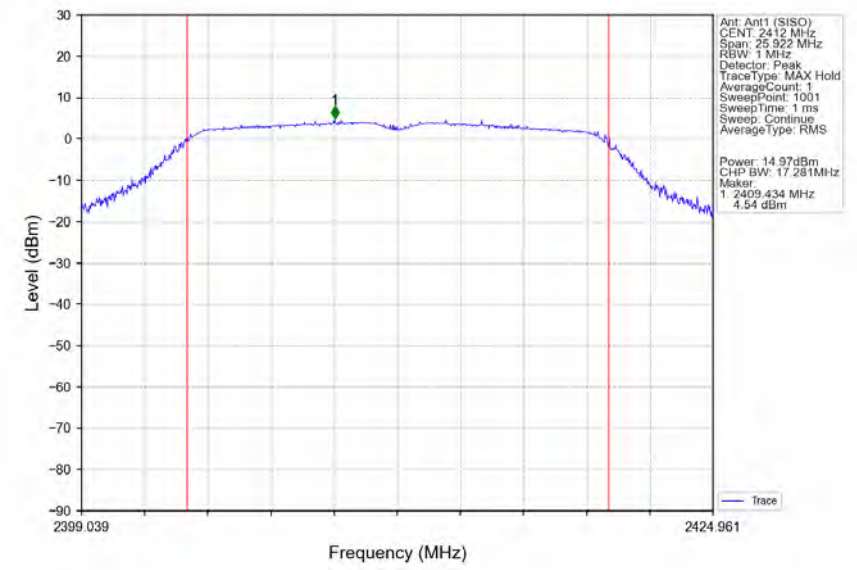
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



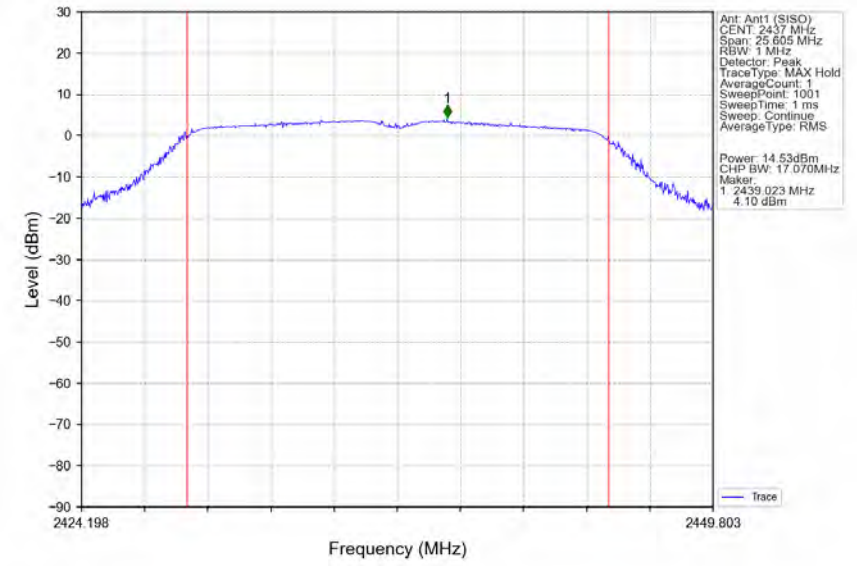
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



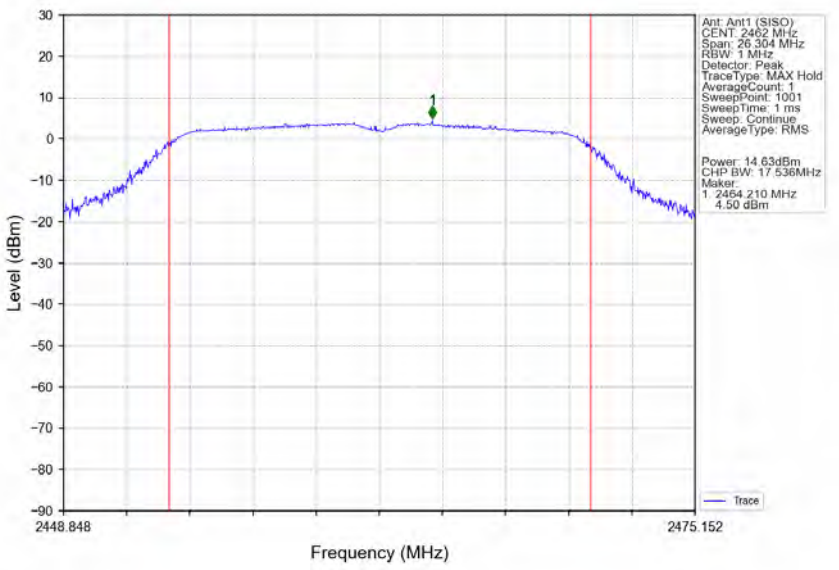
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



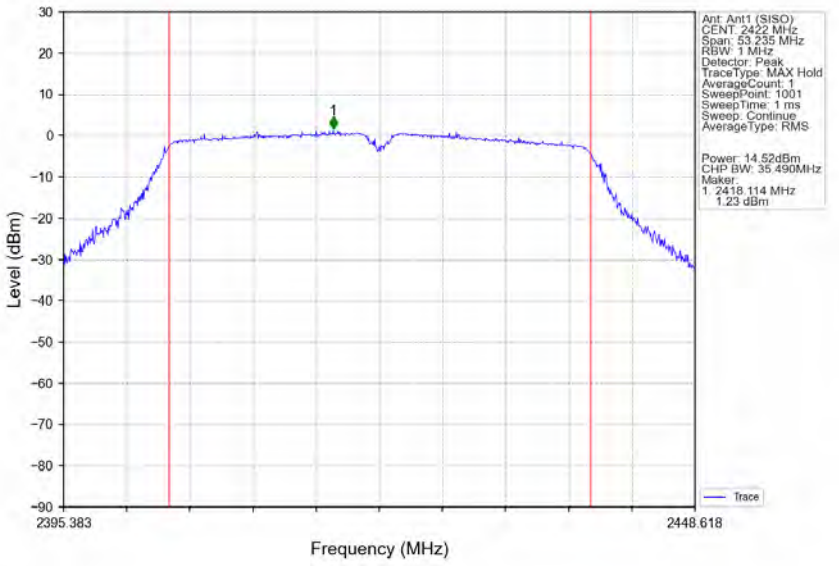
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



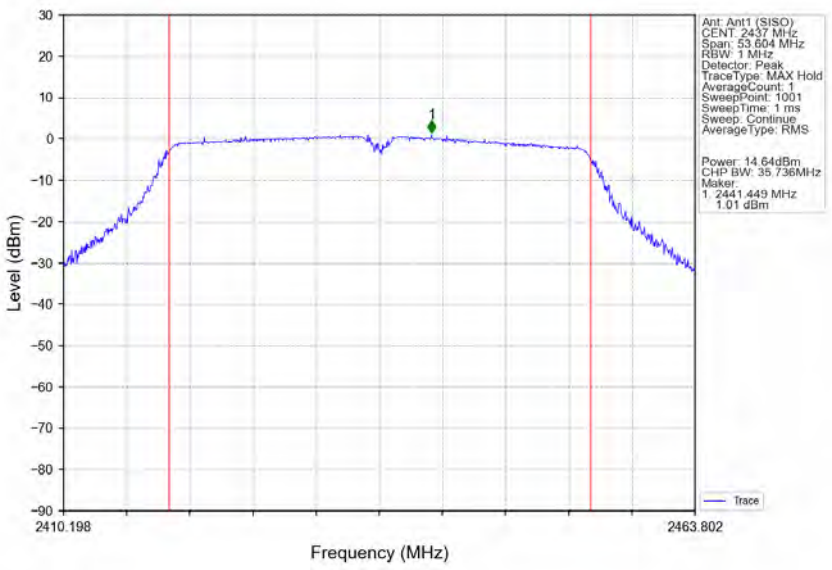
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



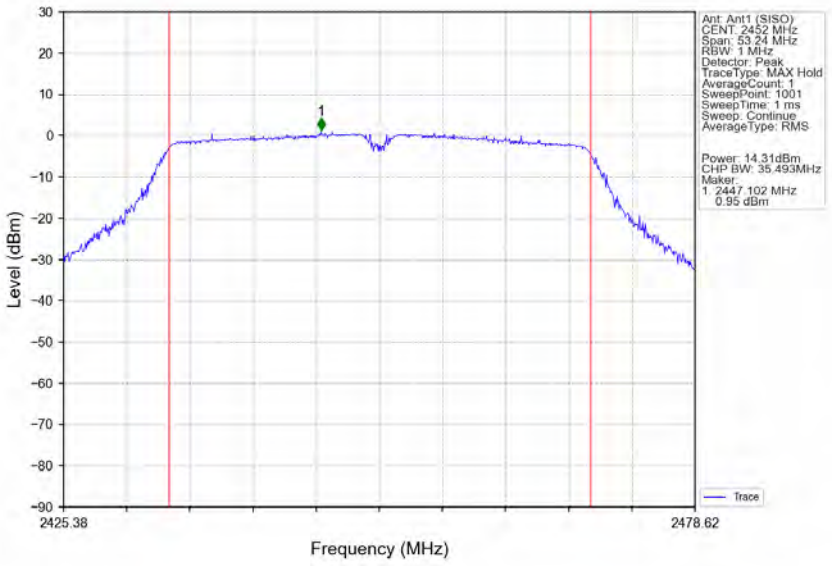
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



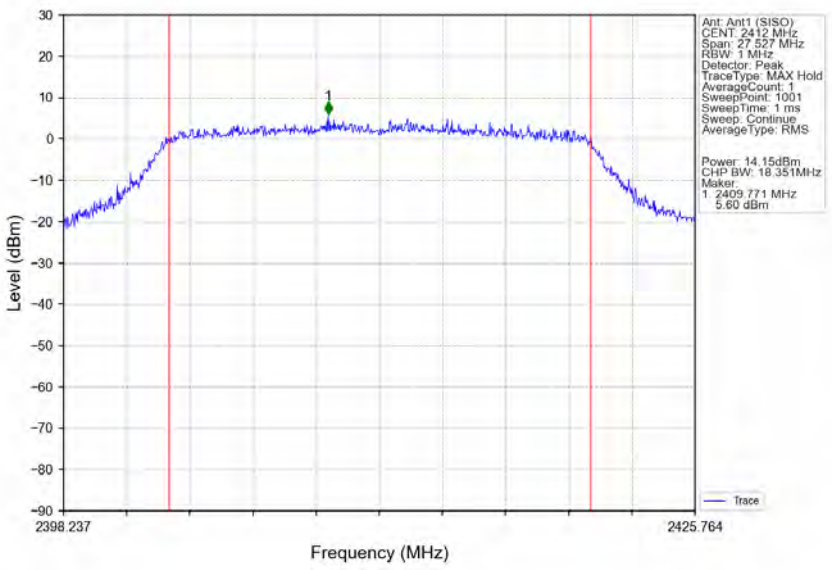
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



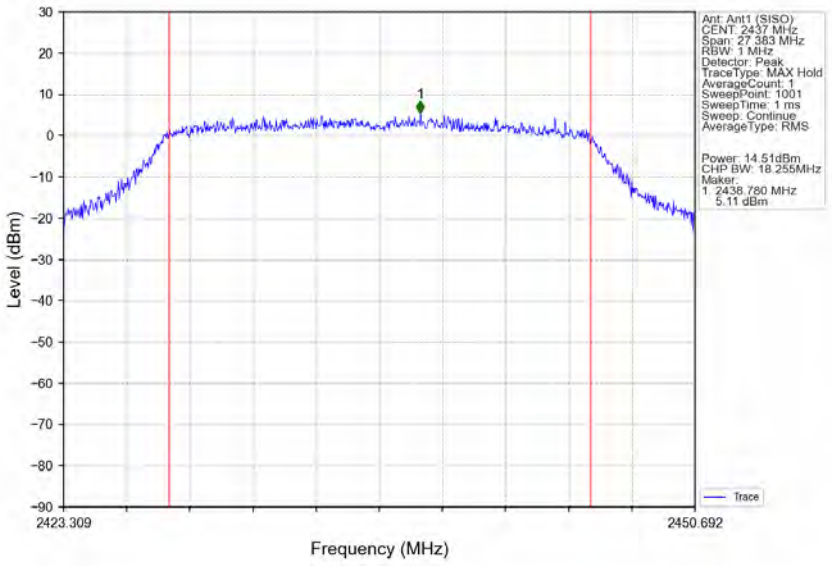
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



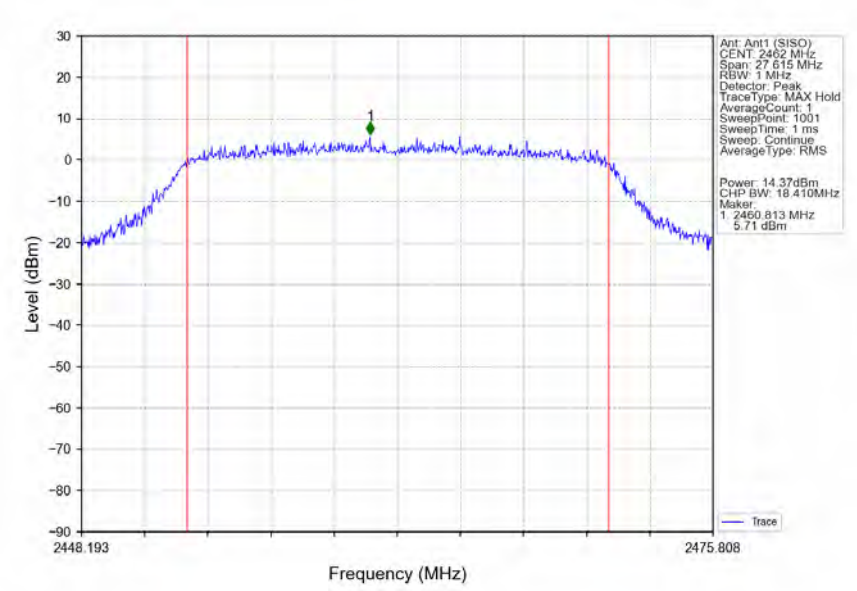
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



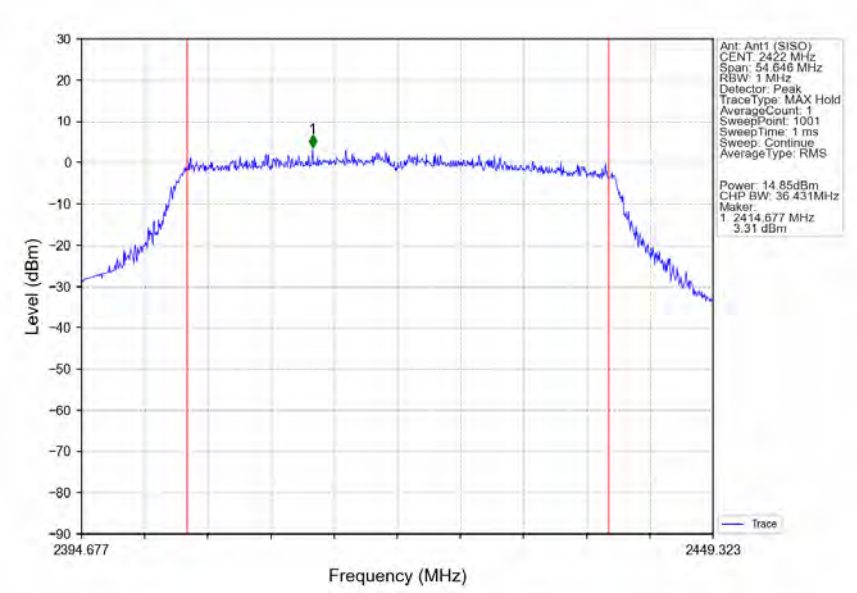
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



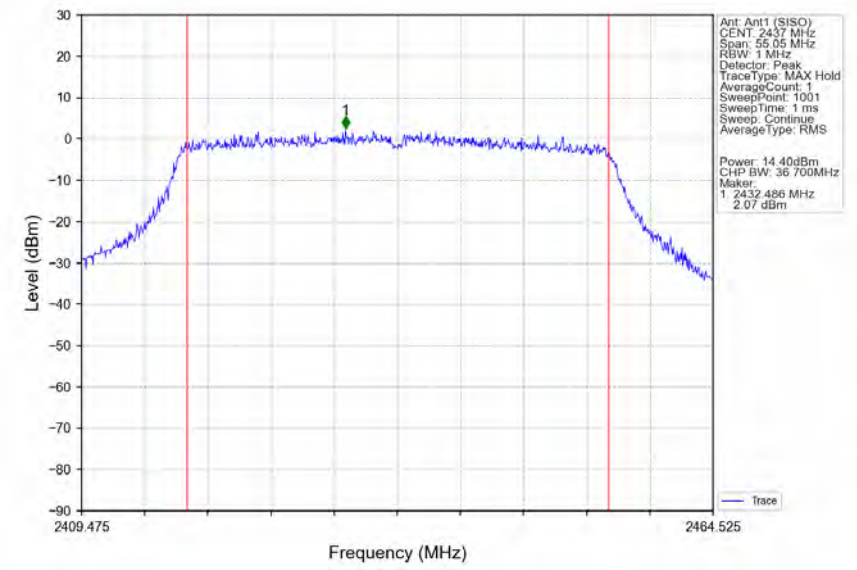
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



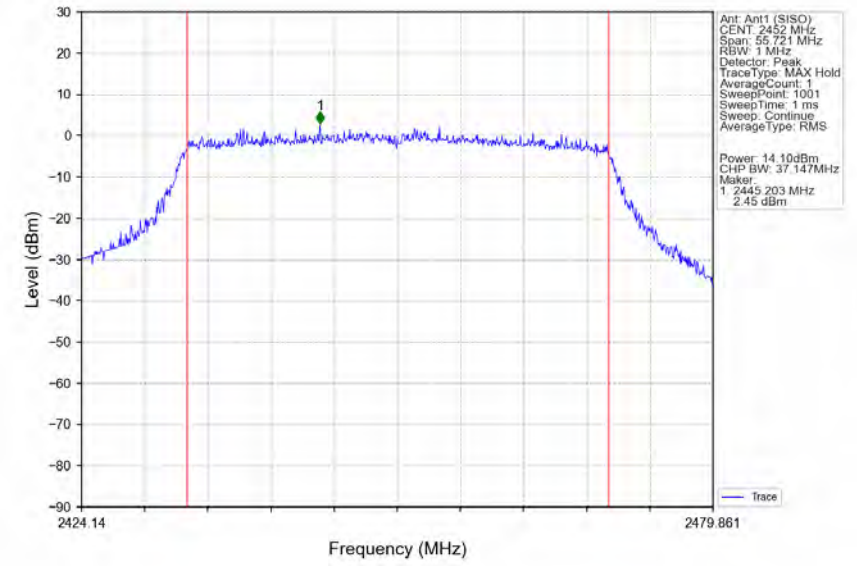
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



4. Maximum Power Spectral Density

4.1 Test Result

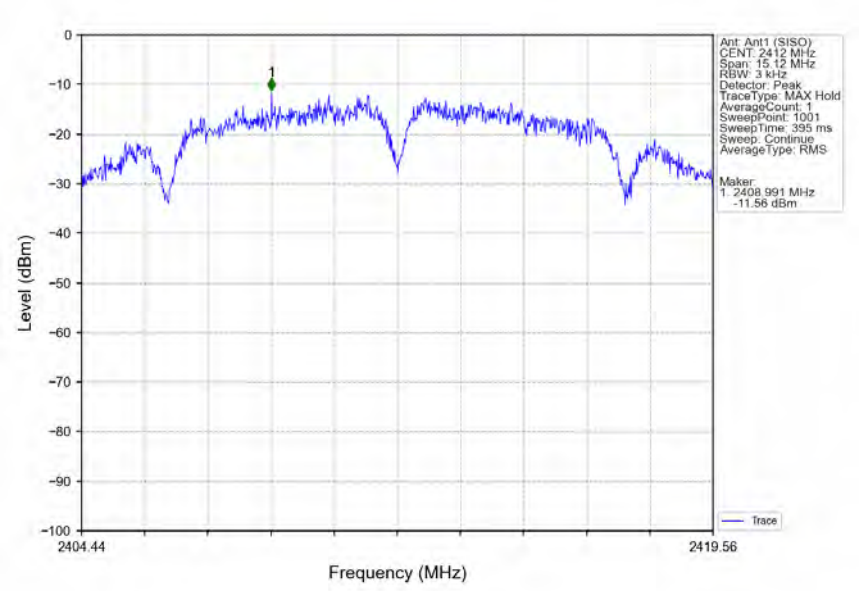
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	-11.56	<=8	Pass
		2437	/	/	-12.03	<=8	Pass
		2462	/	/	-11.40	<=8	Pass
802.11g	SISO	2412	/	/	-18.43	<=8	Pass
		2437	/	/	-19.17	<=8	Pass
		2462	/	/	-19.02	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-18.18	<=8	Pass
		2437	/	/	-19.02	<=8	Pass
		2462	/	/	-17.72	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-21.31	<=8	Pass
		2437	/	/	-21.59	<=8	Pass
		2452	/	/	-21.65	<=8	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	-21.81	<=8	Pass
		2437	RU242	Left	-20.13	<=8	Pass
		2462	RU242	Left	-22.09	<=8	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	-22.52	<=8	Pass
		2437	RU484	Left	-24.79	<=8	Pass
		2452	RU484	Left	-23.70	<=8	Pass
Note1: Antenna Gain: Ant1: 3.80dBi;							

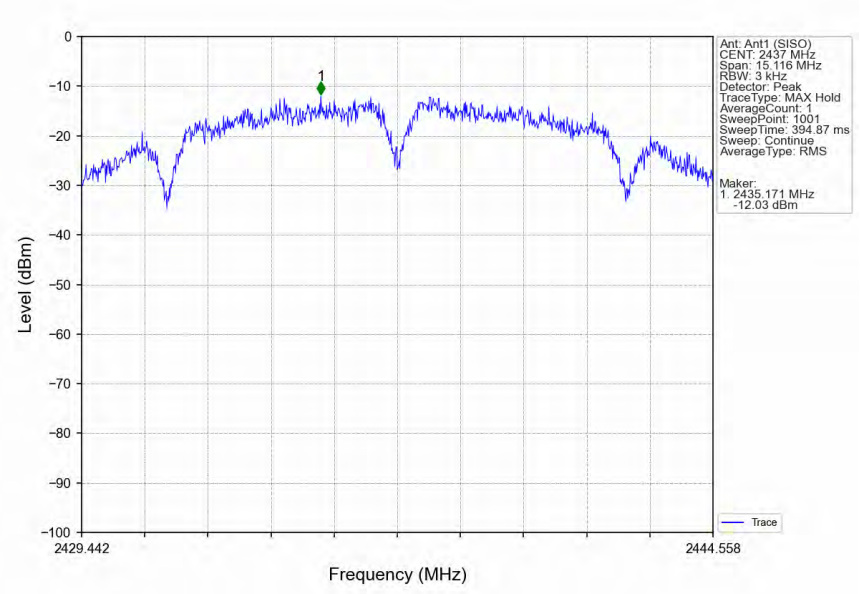
4.2 Test Graph

4.2.1 PSD

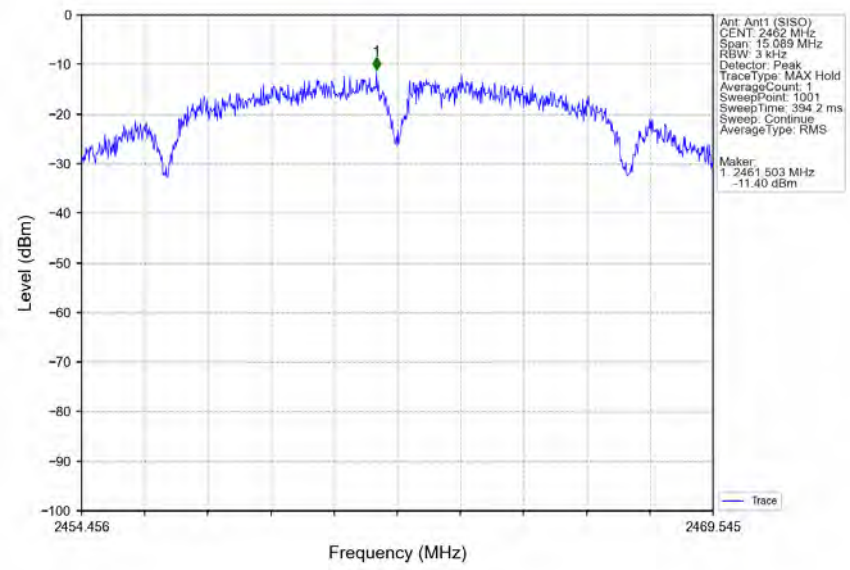
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



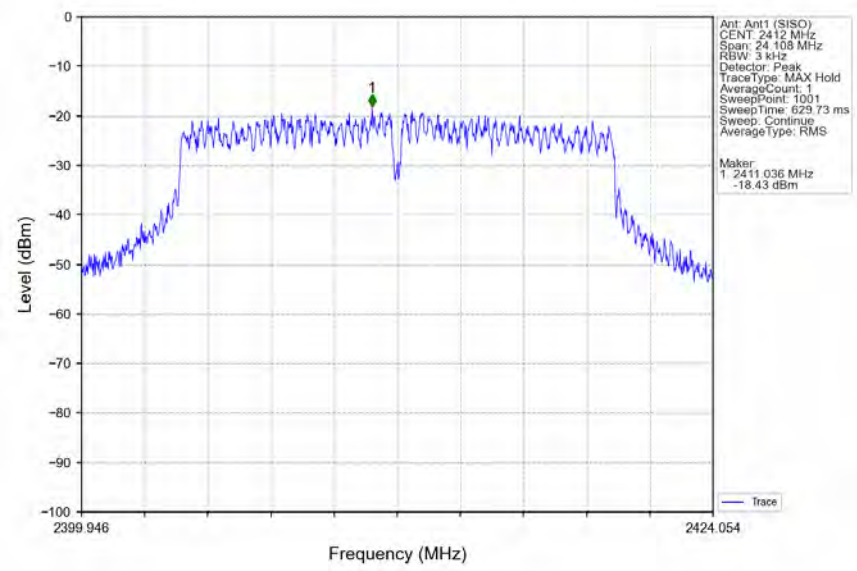
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



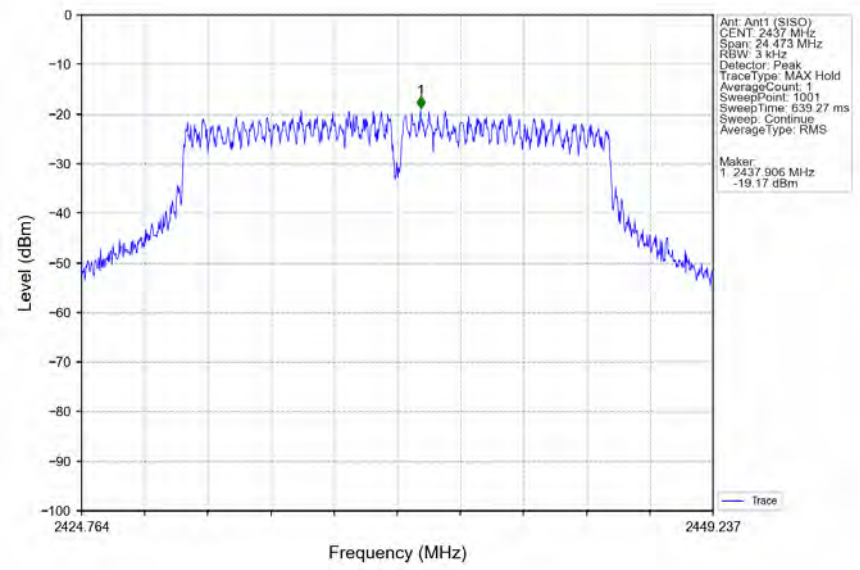
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



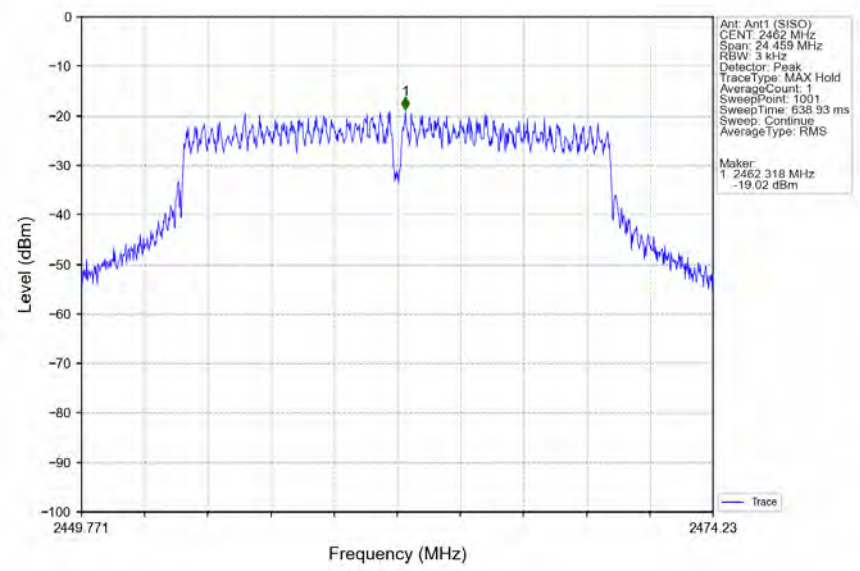
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



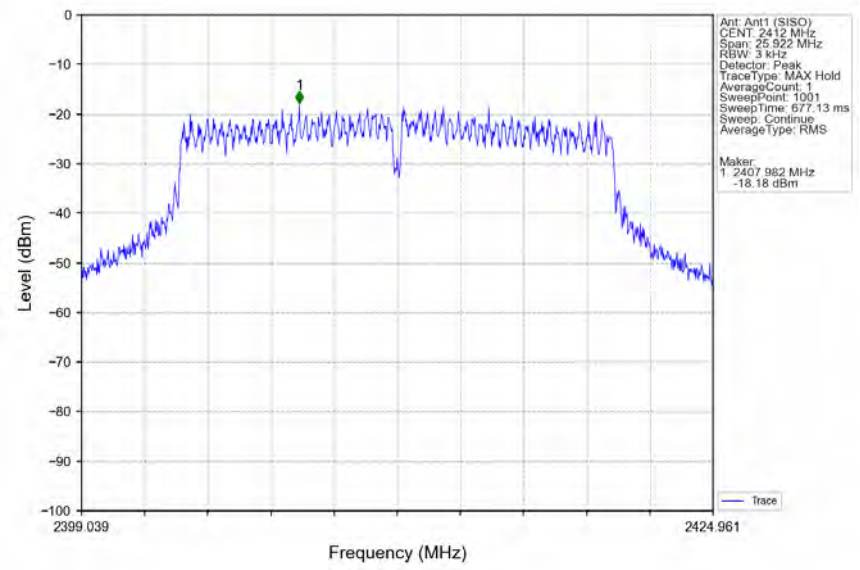
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



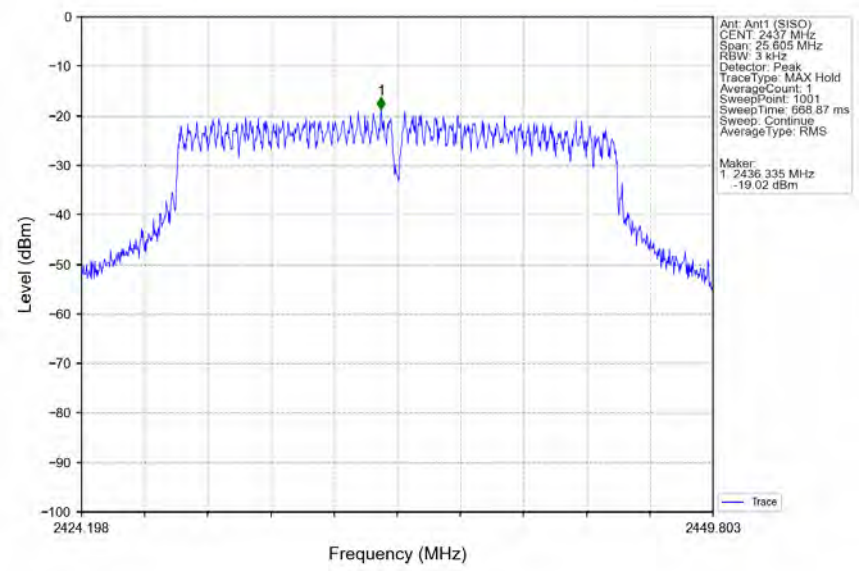
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



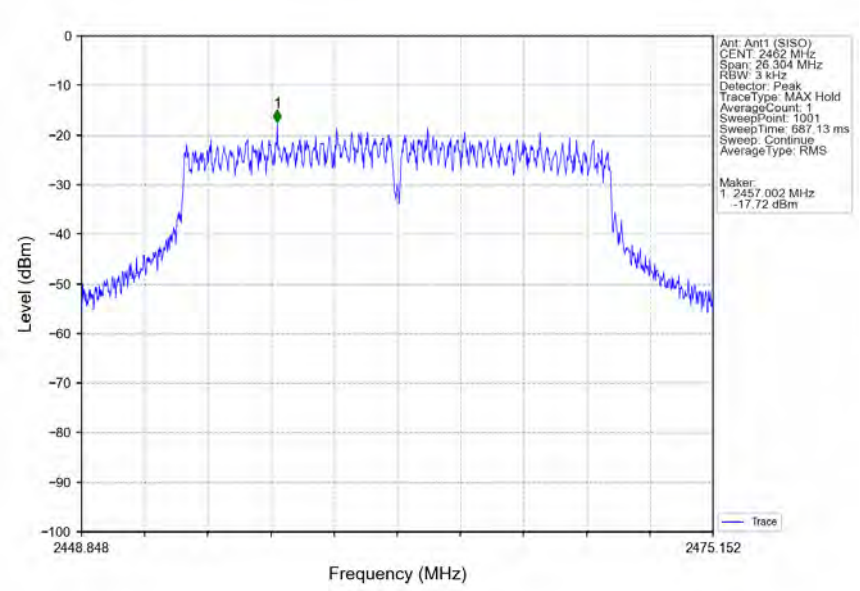
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



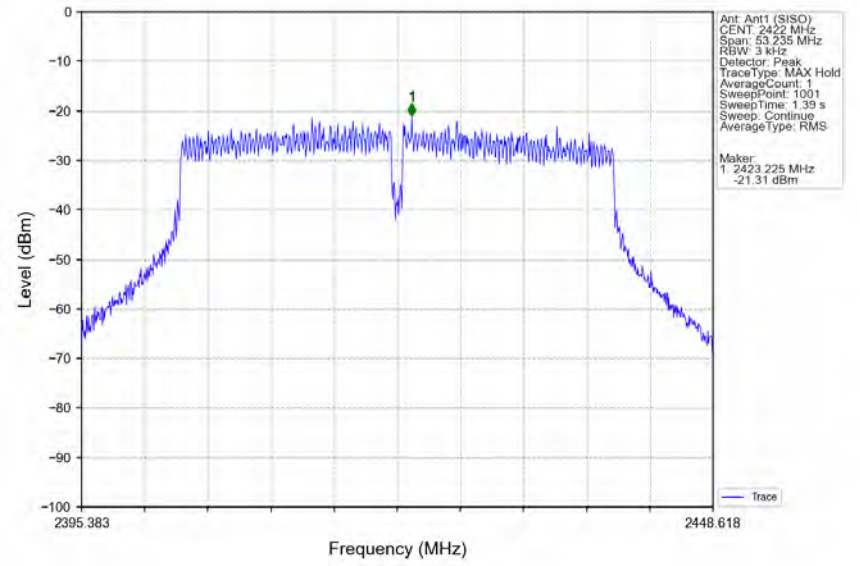
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



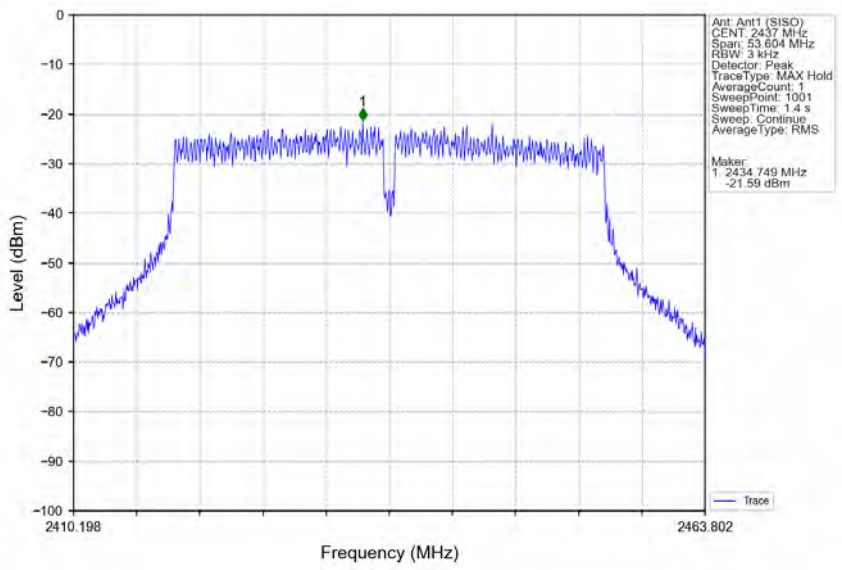
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



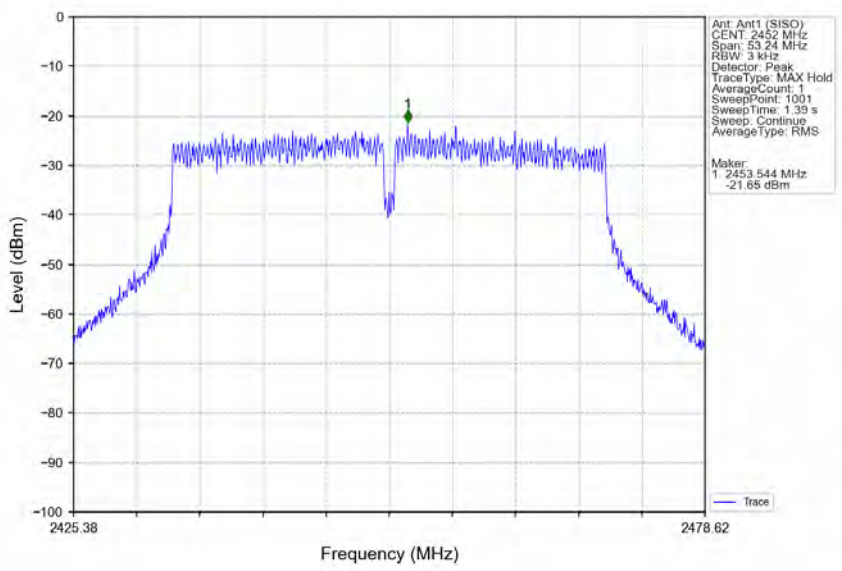
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



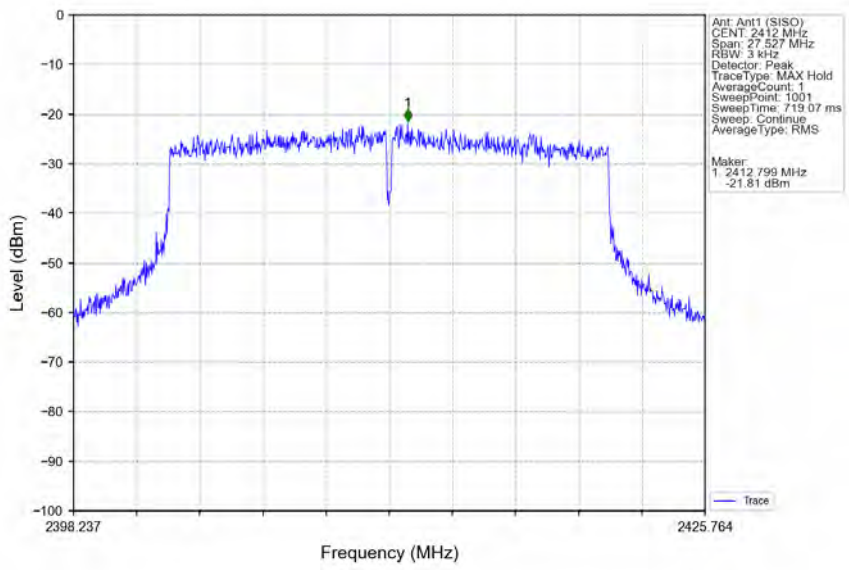
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



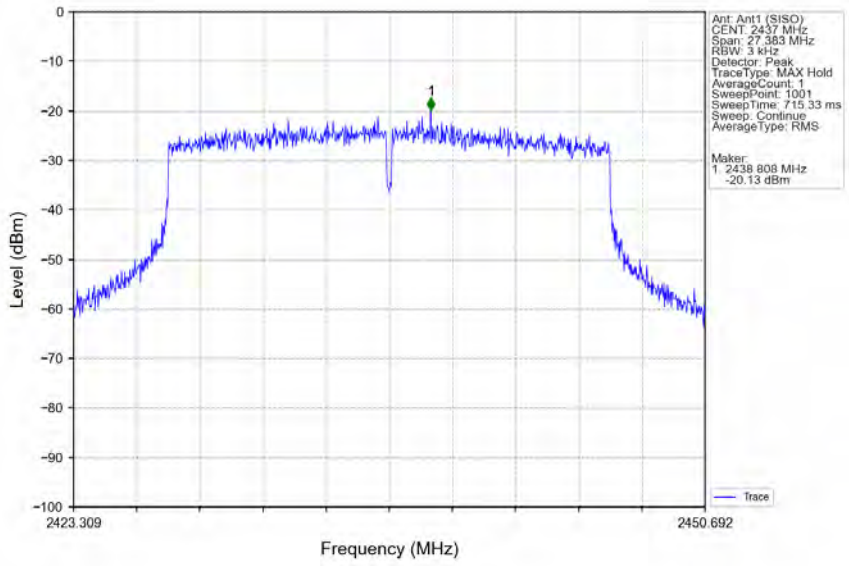
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



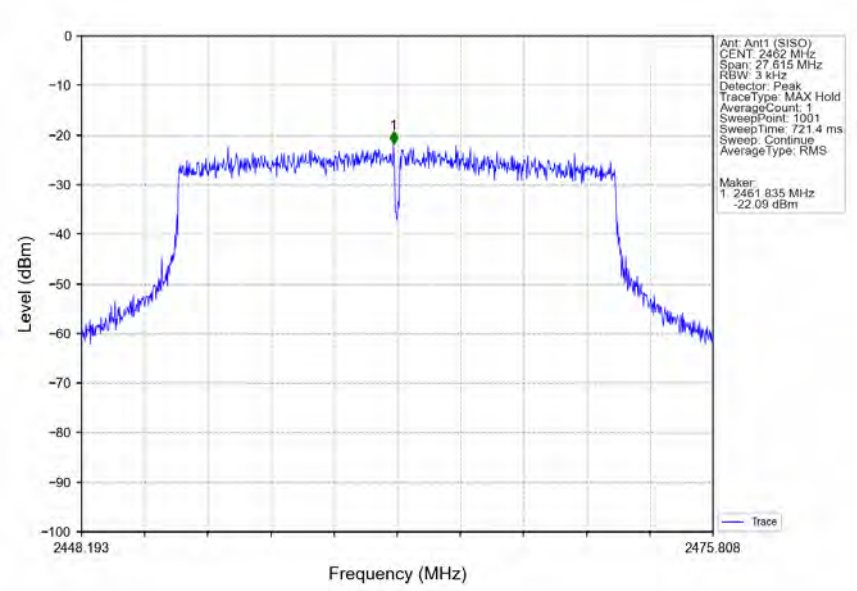
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



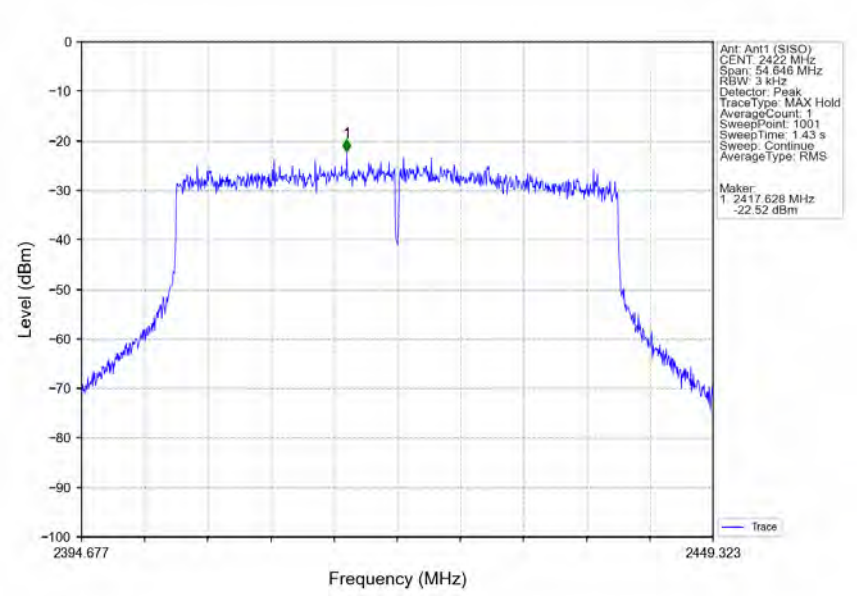
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



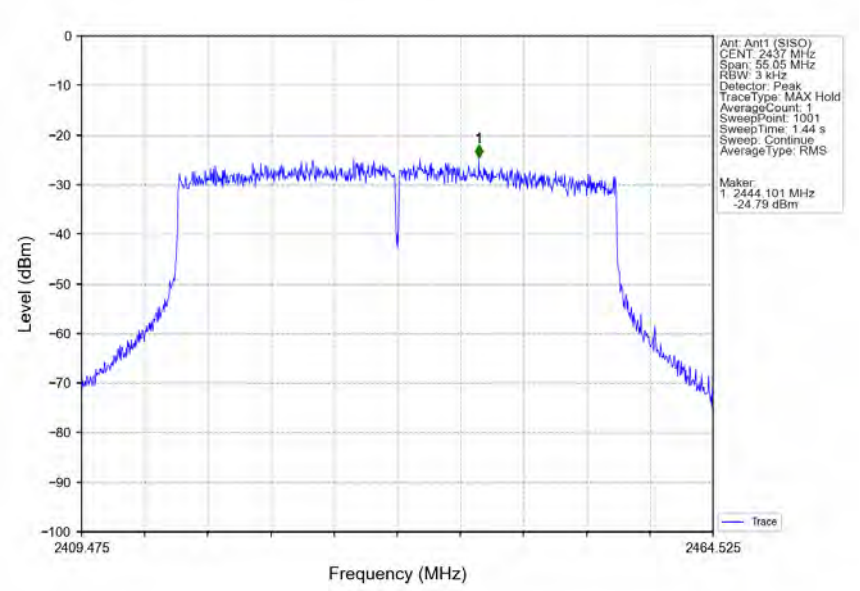
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



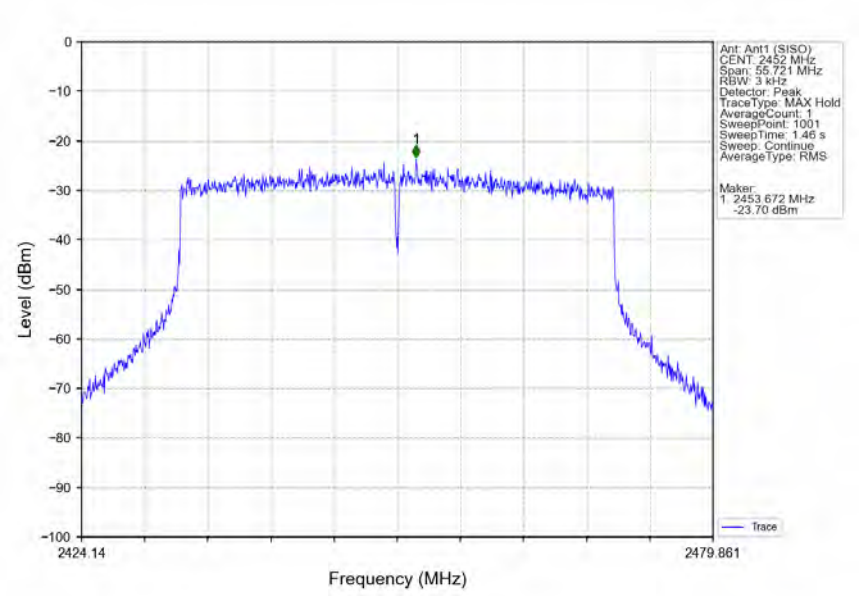
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)
802.11b	SISO	2412	/	/	1	2.95
		2437	/	/	1	3.12
		2462	/	/	1	3.14
802.11g	SISO	2412	/	/	1	-3.96
		2437	/	/	1	-4.22
		2462	/	/	1	-4.39
802.11n (HT20)	SISO	2412	/	/	1	-3.85
		2437	/	/	1	-4.14
		2462	/	/	1	-4.12
802.11n (HT40)	SISO	2422	/	/	1	-7.11
		2437	/	/	1	-7.03
		2452	/	/	1	-7.43
802.11ax (HEW20)	SISO	2412	RU242	Left	1	-6.06
		2437	RU242	Left	1	-5.67
		2462	RU242	Left	1	-5.71
802.11ax (HEW40)	SISO	2422	RU484	Left	1	-7.75
		2437	RU484	Left	1	-8.30
		2452	RU484	Left	1	-8.61
Note1: Refer to RSS-247 Issue 2 section 5.5 and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.						

5.1.2 CSE

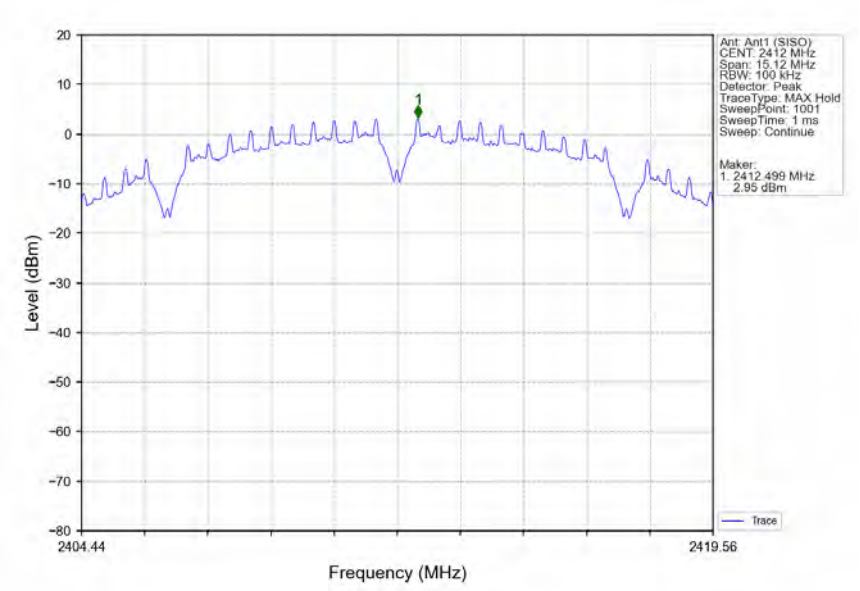
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	3.14	-16.86	Pass
		2437	/	/	1	3.14	-16.86	Pass
		2462	/	/	1	3.14	-16.86	Pass
802.11g	SISO	2412	/	/	1	-3.96	-23.96	Pass
		2437	/	/	1	-3.96	-23.96	Pass
		2462	/	/	1	-3.96	-23.96	Pass
802.11n (HT20)	SISO	2412	/	/	1	-3.85	-23.85	Pass
		2437	/	/	1	-3.85	-23.85	Pass
		2462	/	/	1	-3.85	-23.85	Pass
802.11n (HT40)	SISO	2422	/	/	1	-7.03	-27.03	Pass
		2437	/	/	1	-7.03	-27.03	Pass
		2452	/	/	1	-7.03	-27.03	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	1	-5.67	-25.67	Pass
		2437	RU242	Left	1	-5.67	-25.67	Pass
		2462	RU242	Left	1	-5.67	-25.67	Pass
802.11ax	SISO	2422	RU484	Left	1	-7.75	-27.75	Pass

(HEW40)		2437	RU484	Left	1	-7.75	-27.75	Pass
		2452	RU484	Left	1	-7.75	-27.75	Pass
Note1: Refer to RSS-247 Issue 2 section 5.5 and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.								

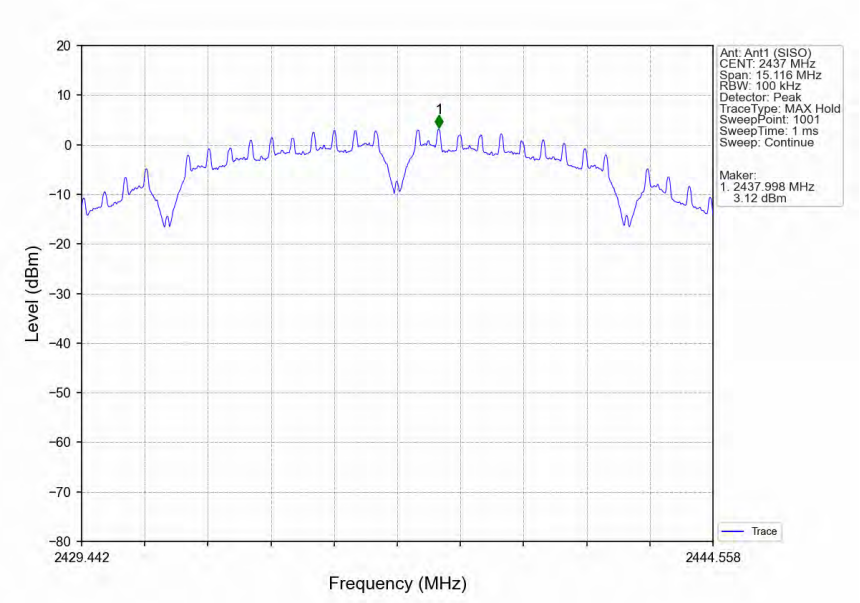
5.2 Test Graph

5.2.1 Ref

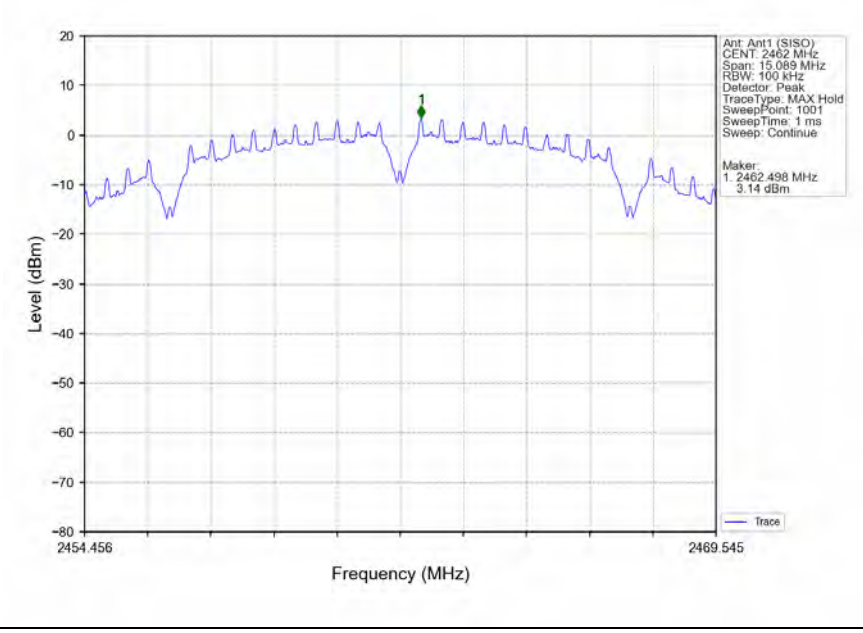
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



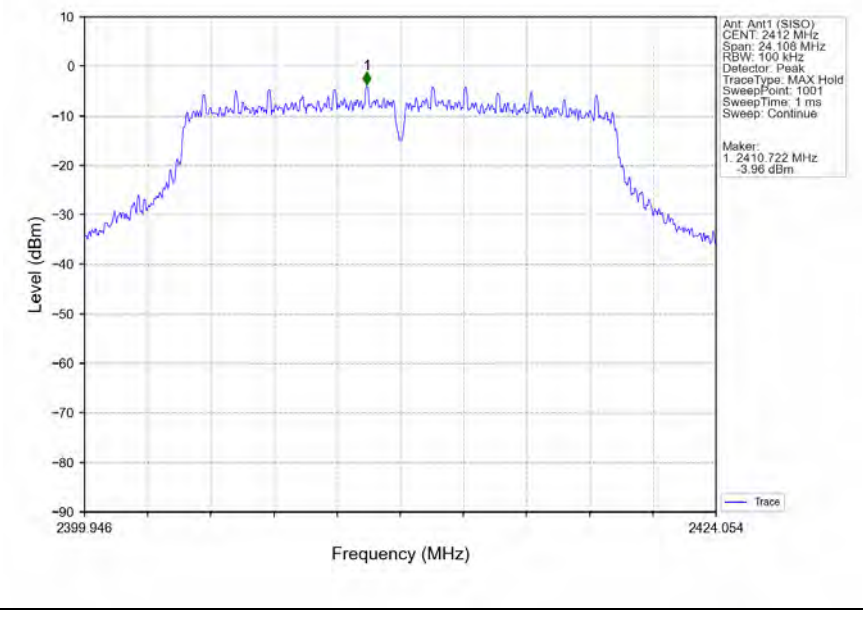
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



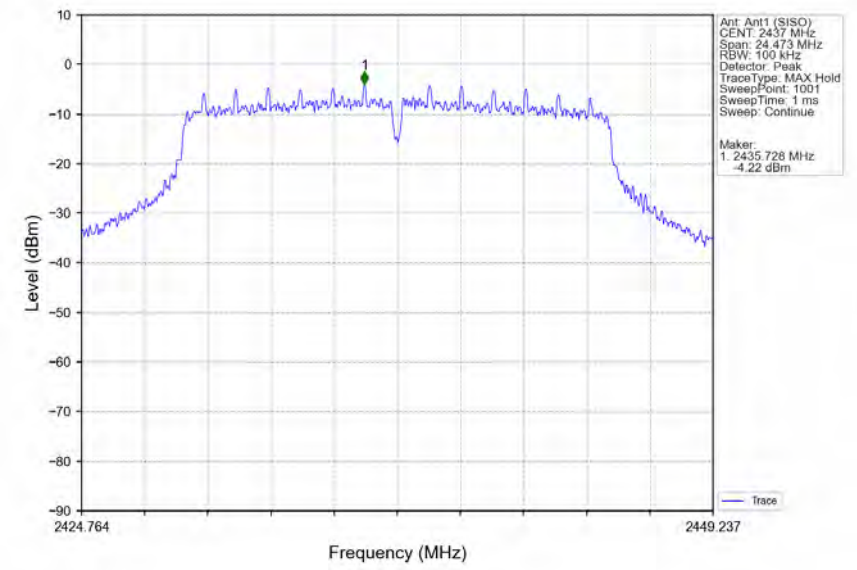
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



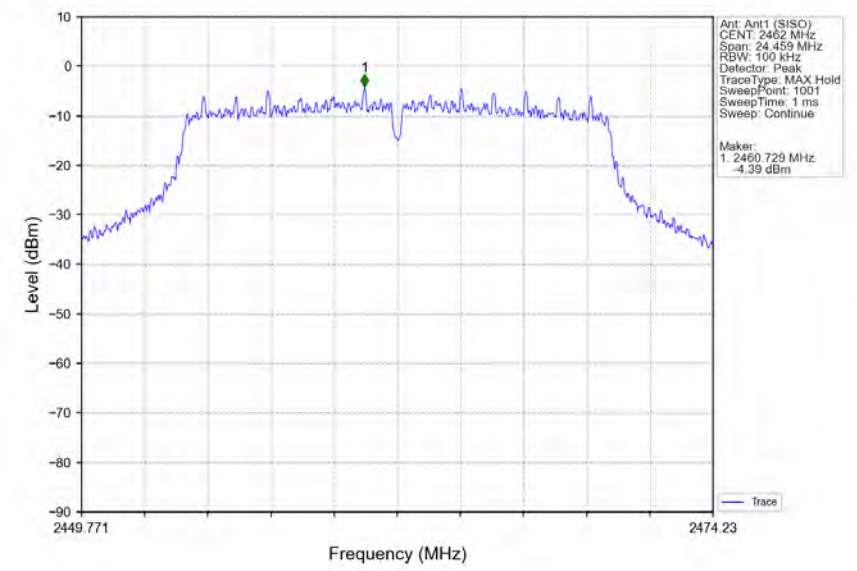
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



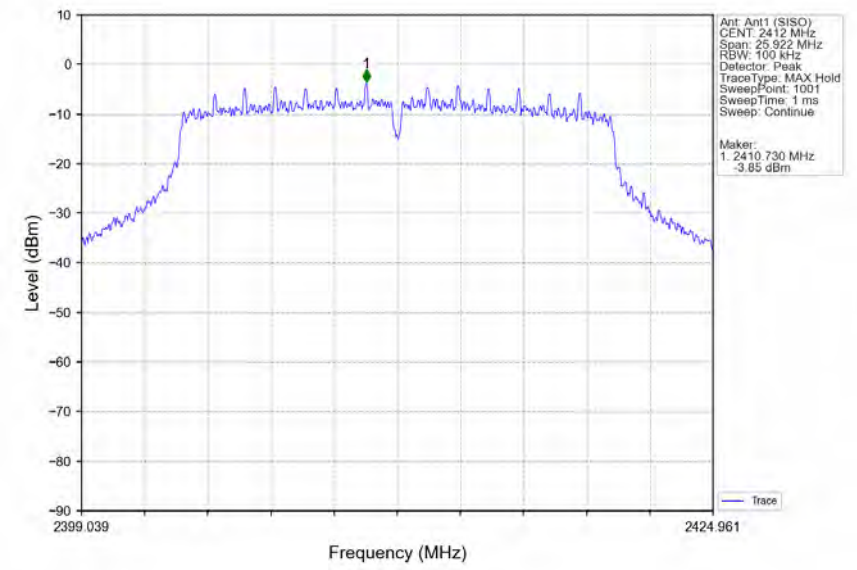
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



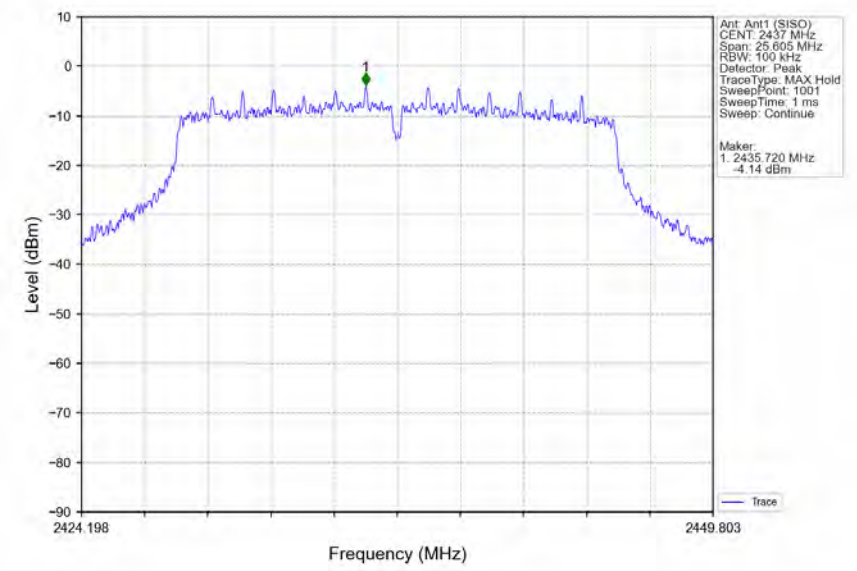
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



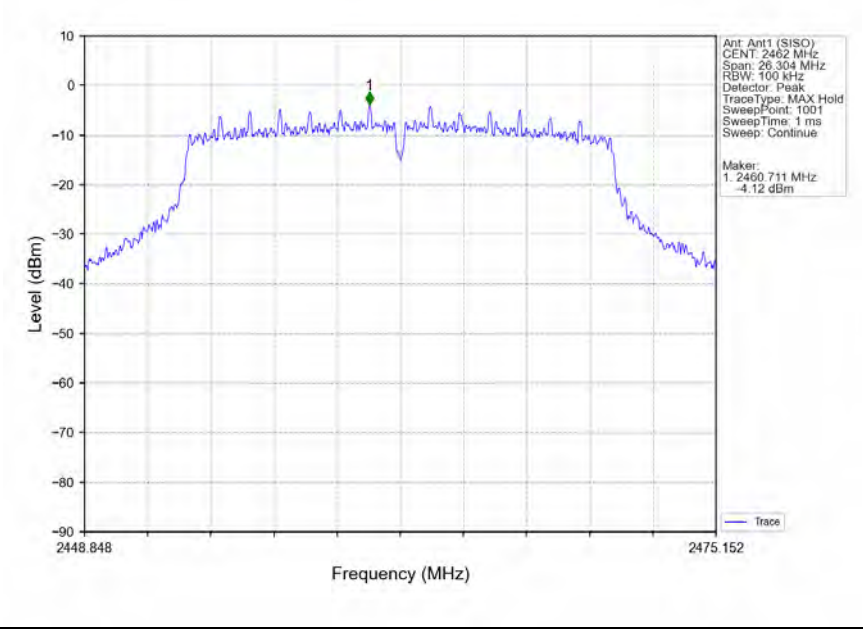
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



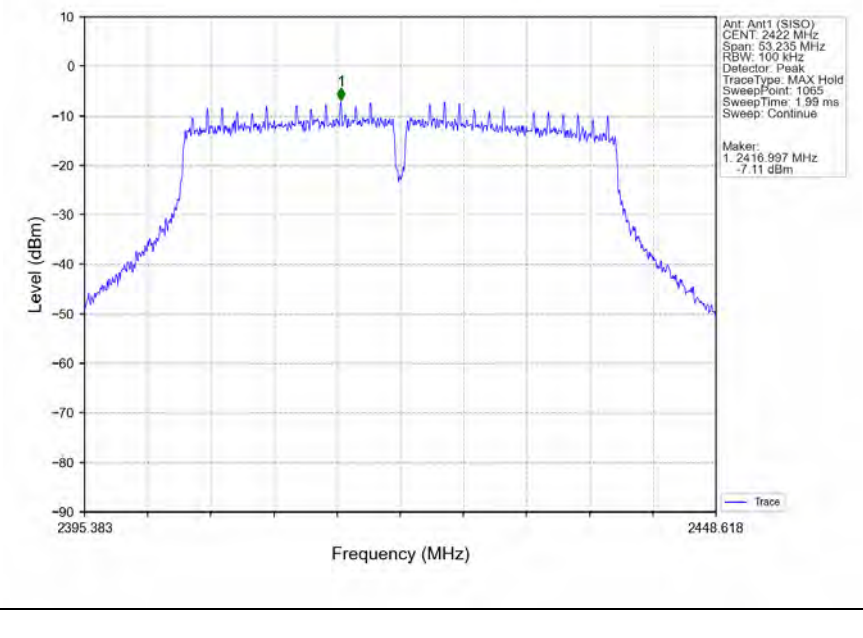
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



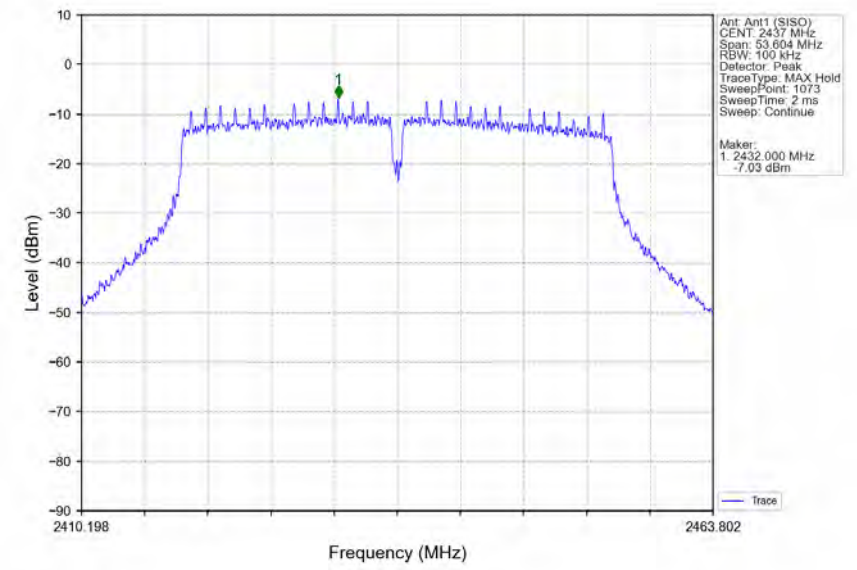
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



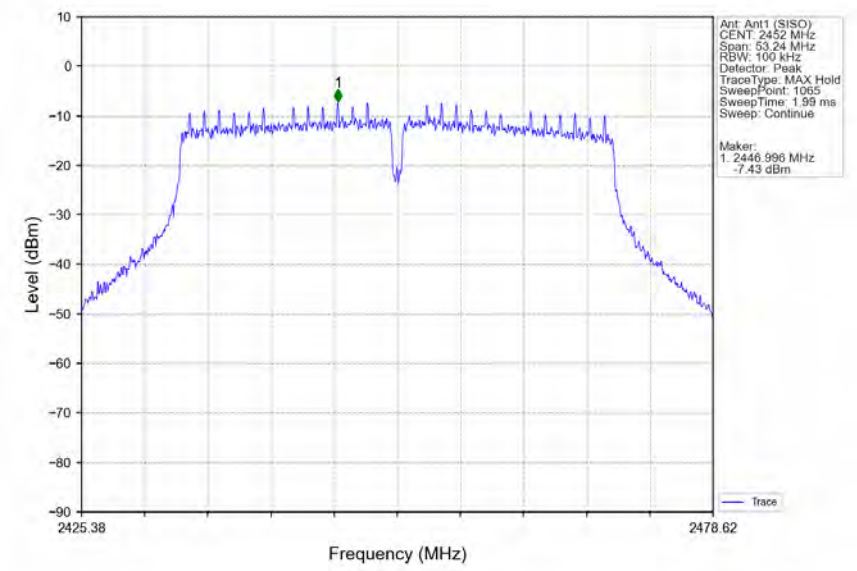
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



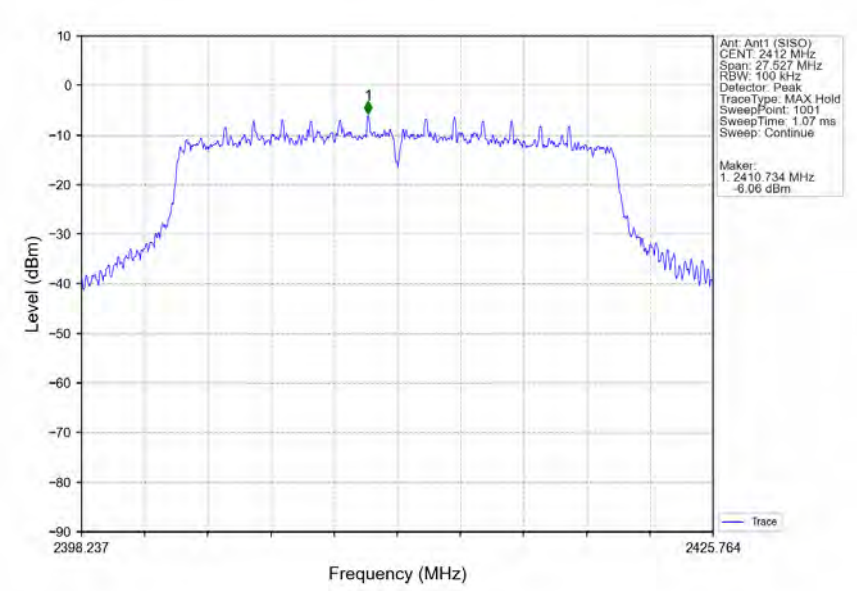
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



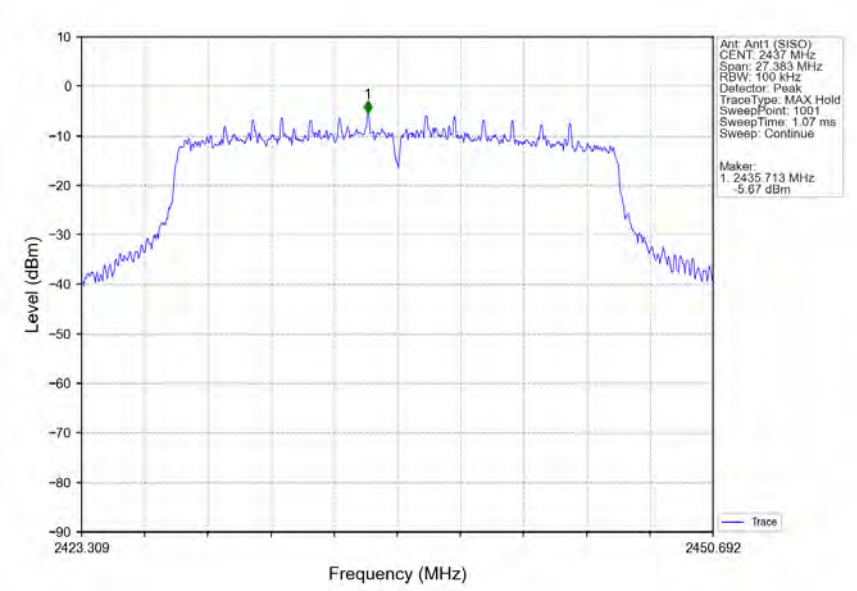
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



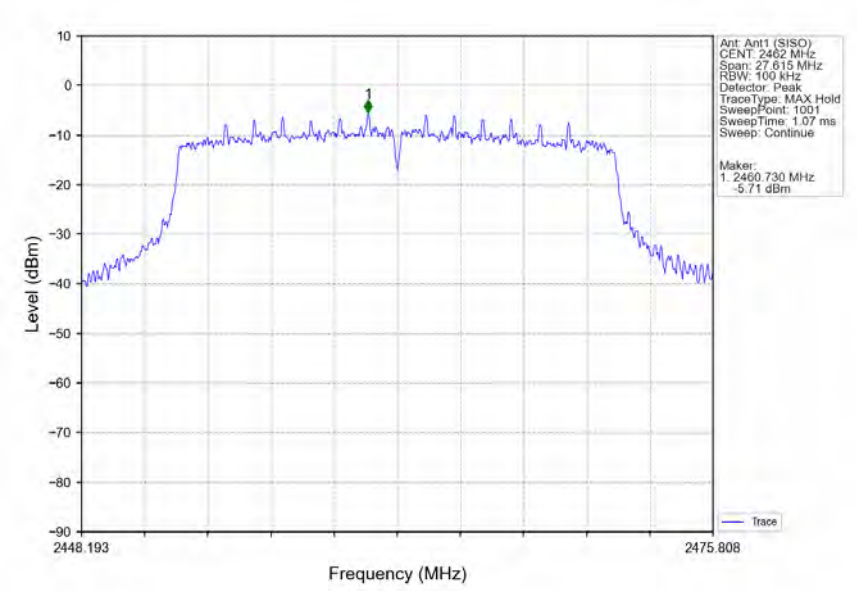
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



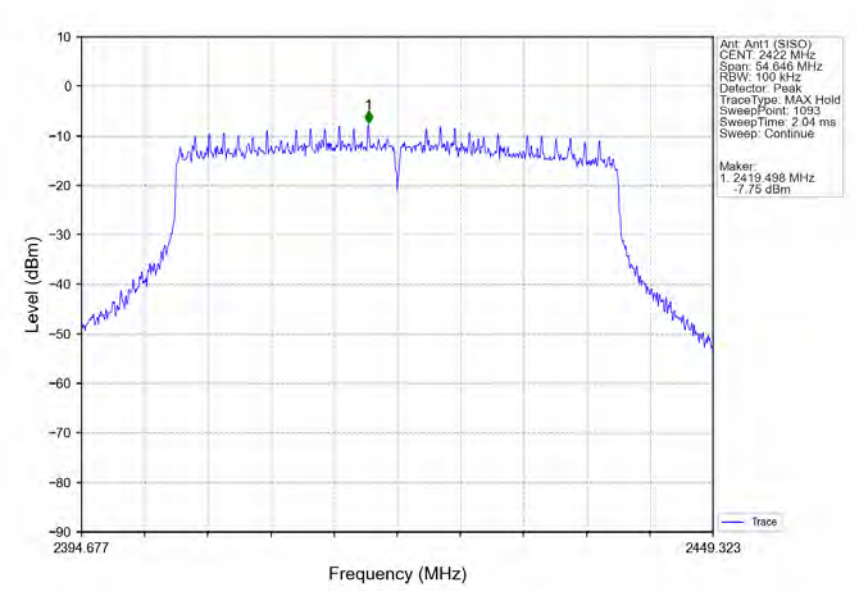
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



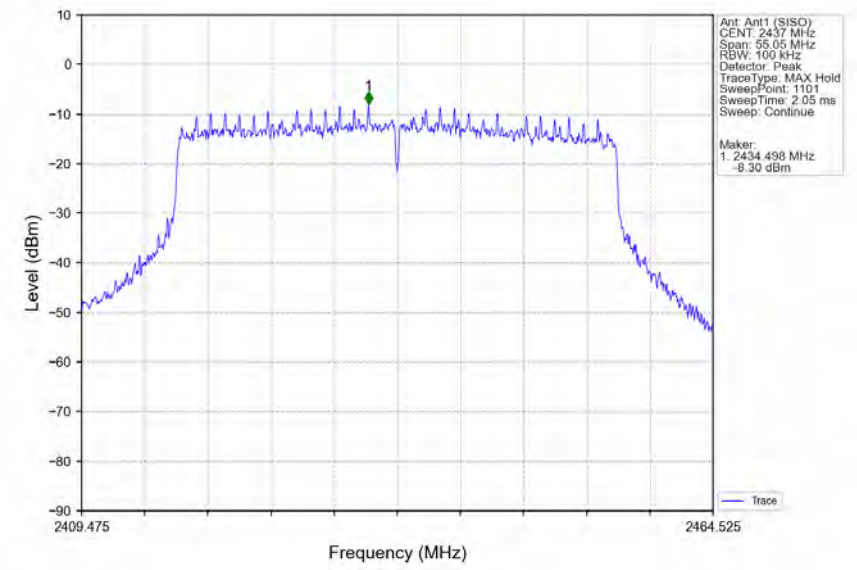
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



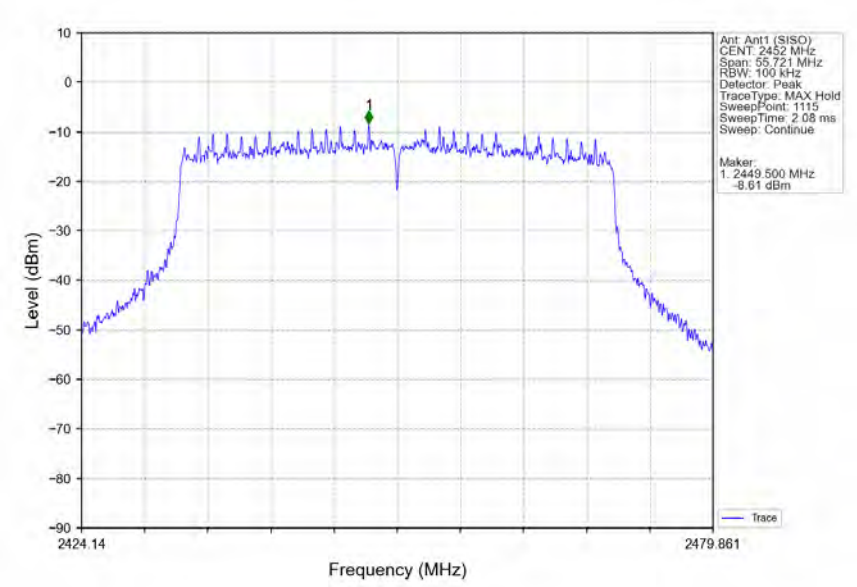
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV

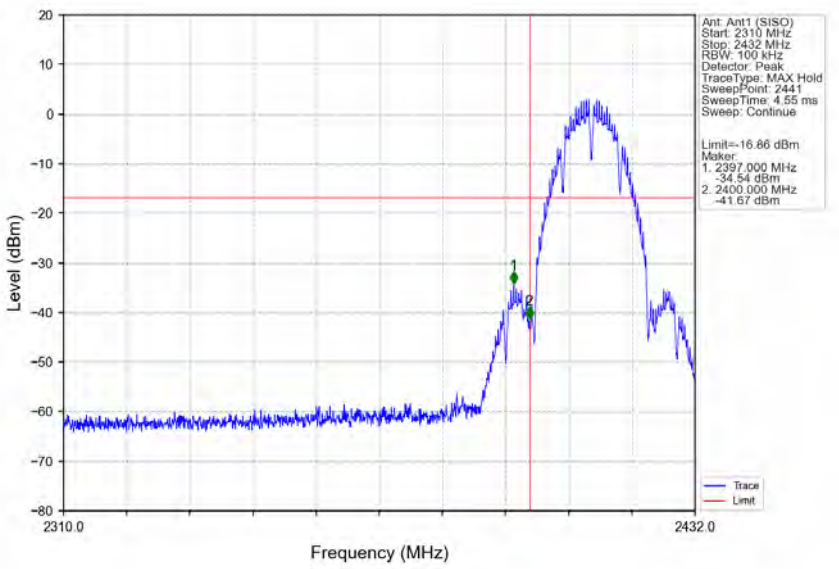


802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV

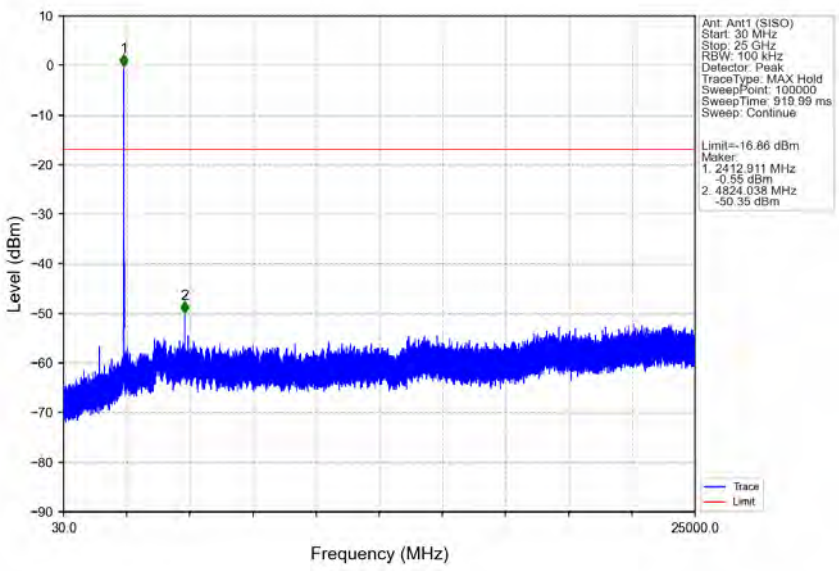


5.2.2 CSE

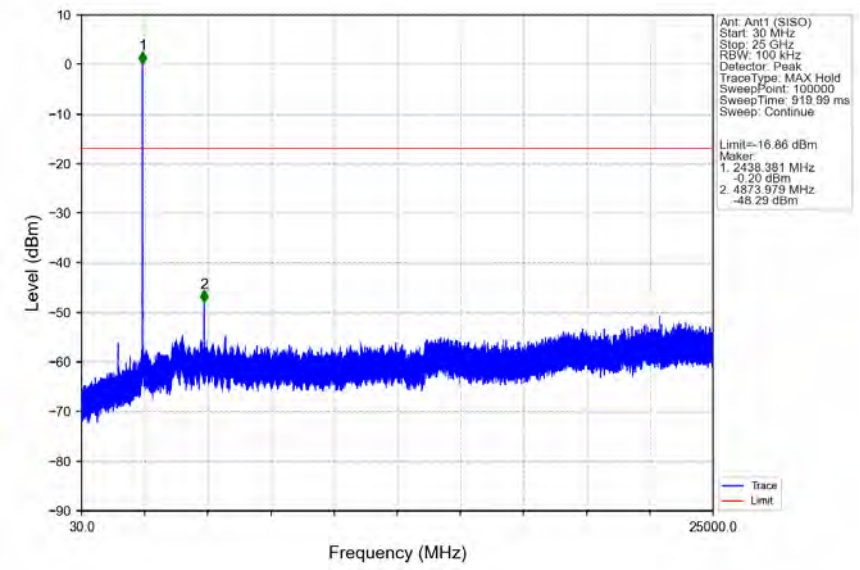
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



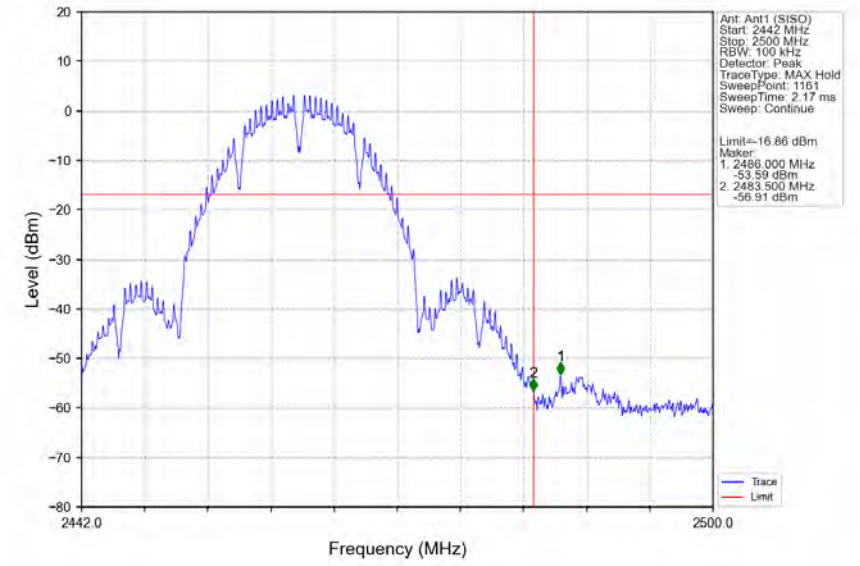
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



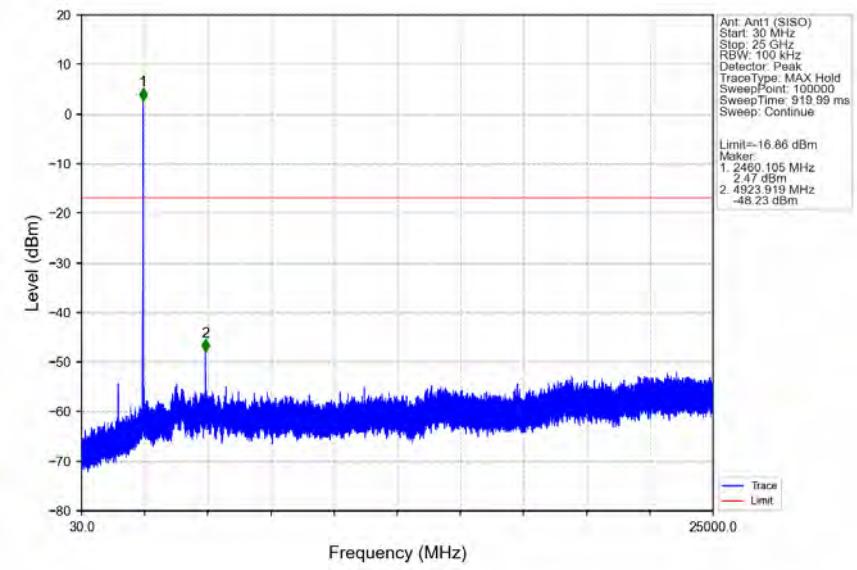
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



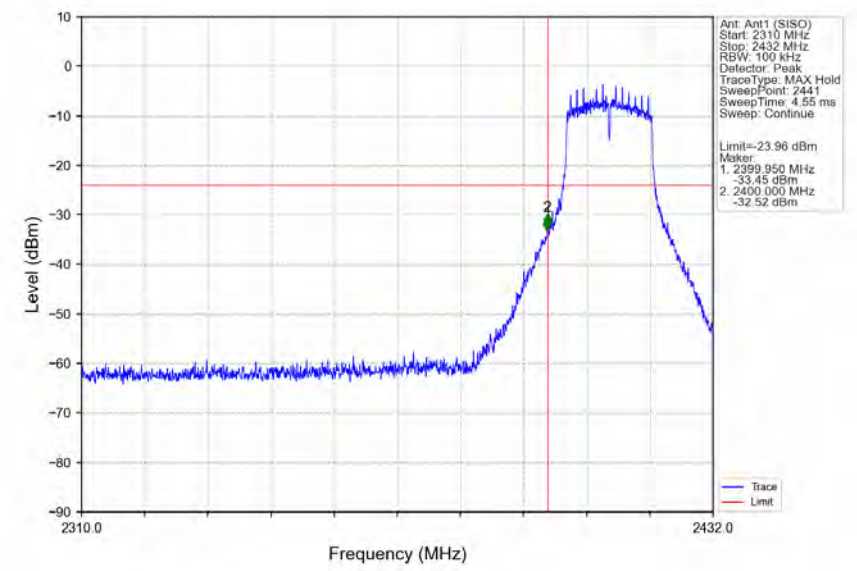
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



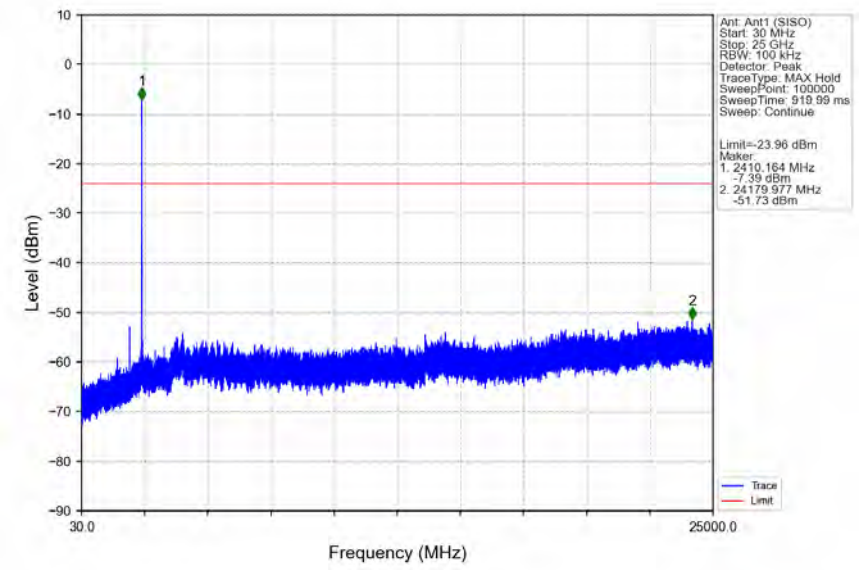
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



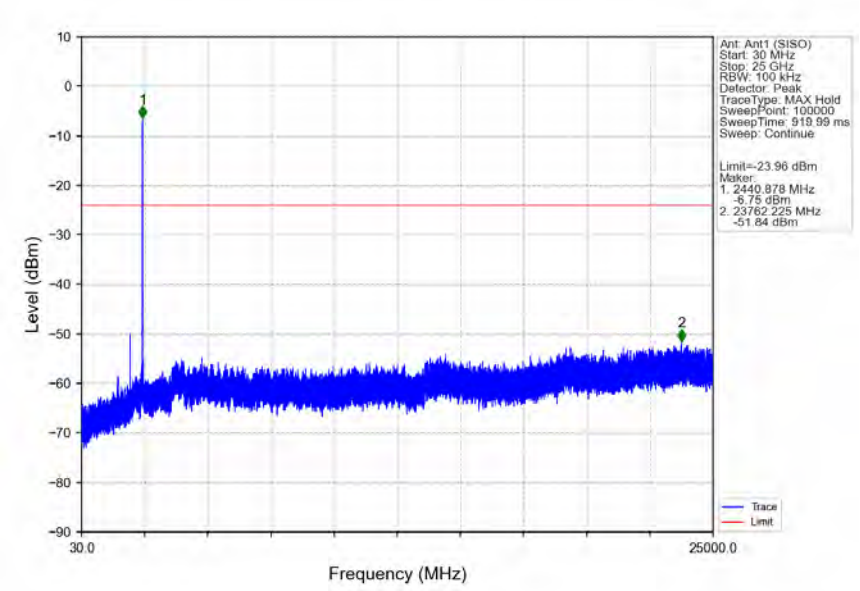
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



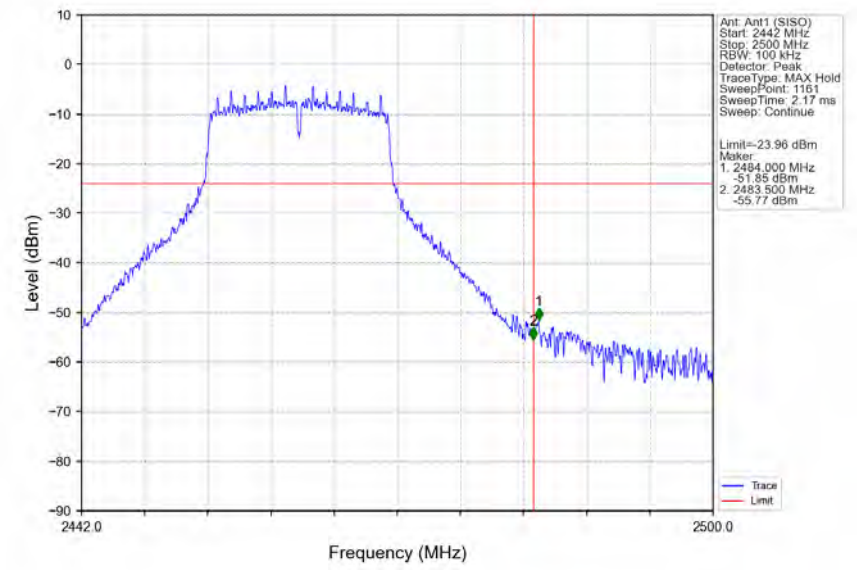
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



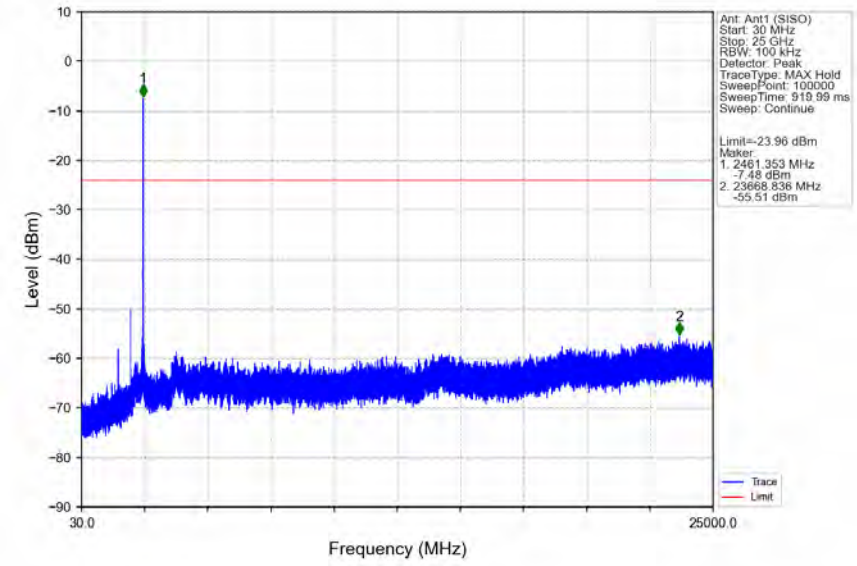
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



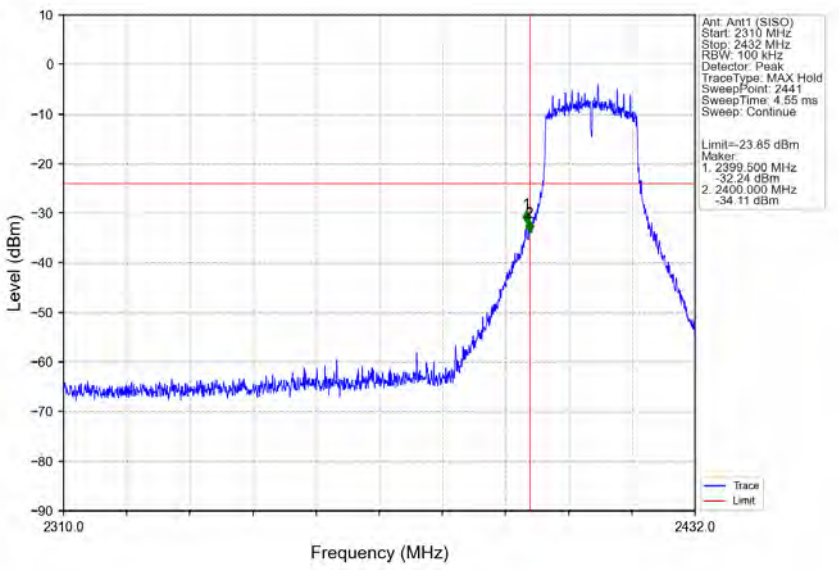
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



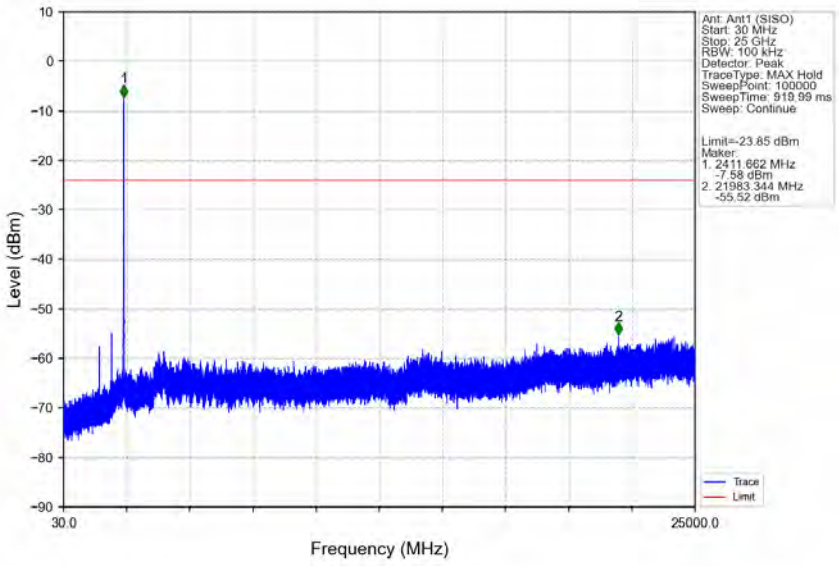
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



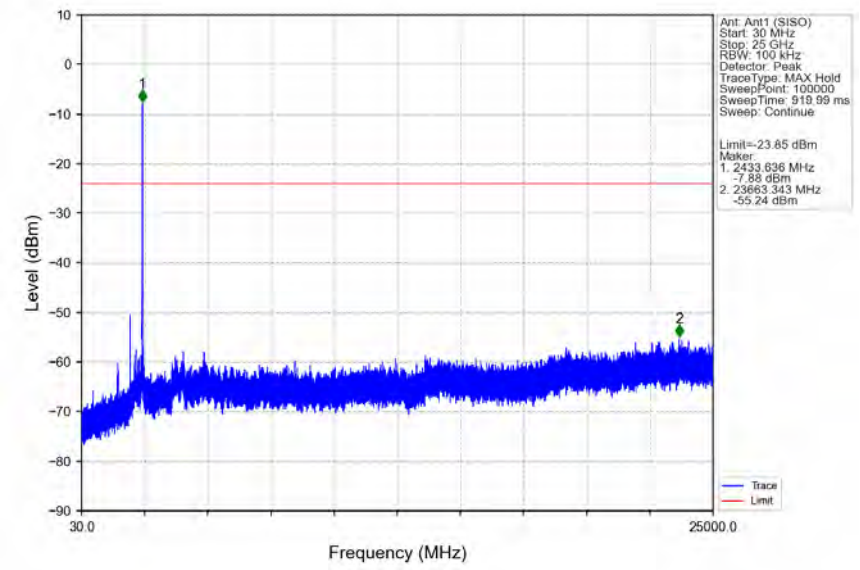
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



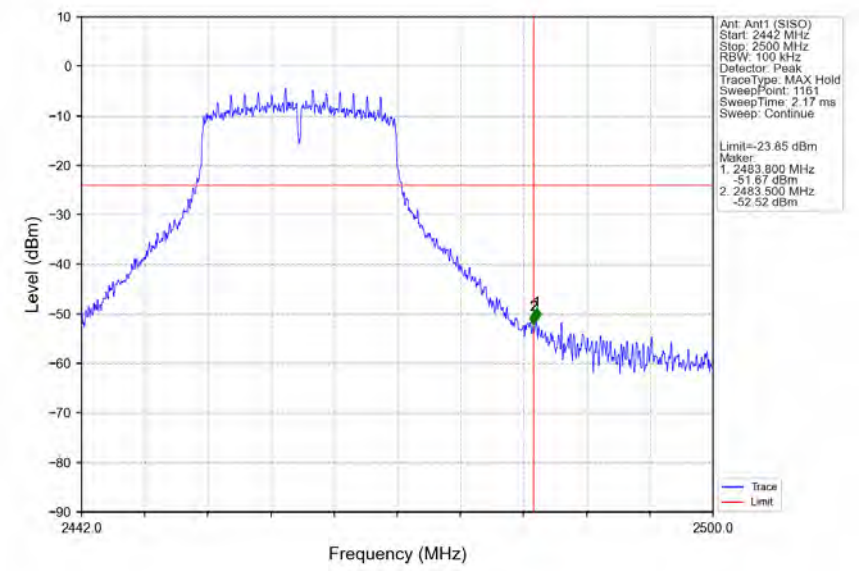
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



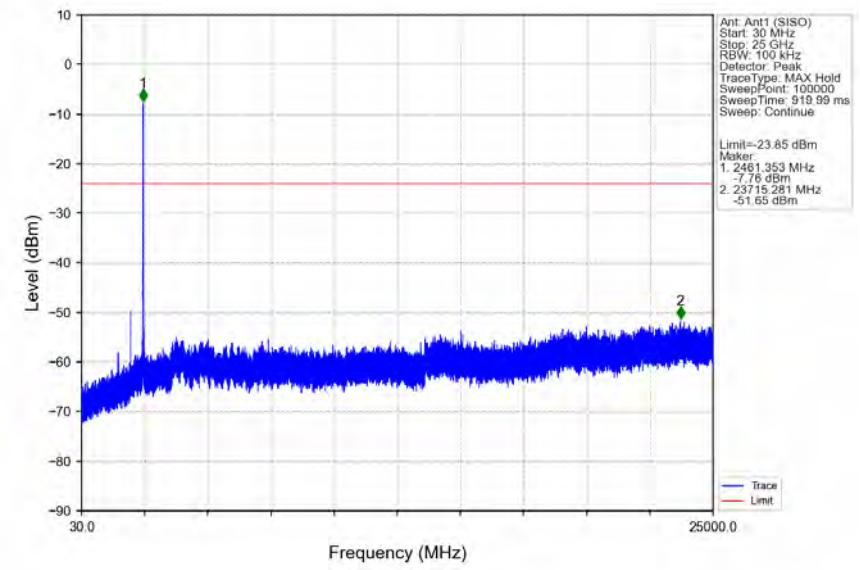
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



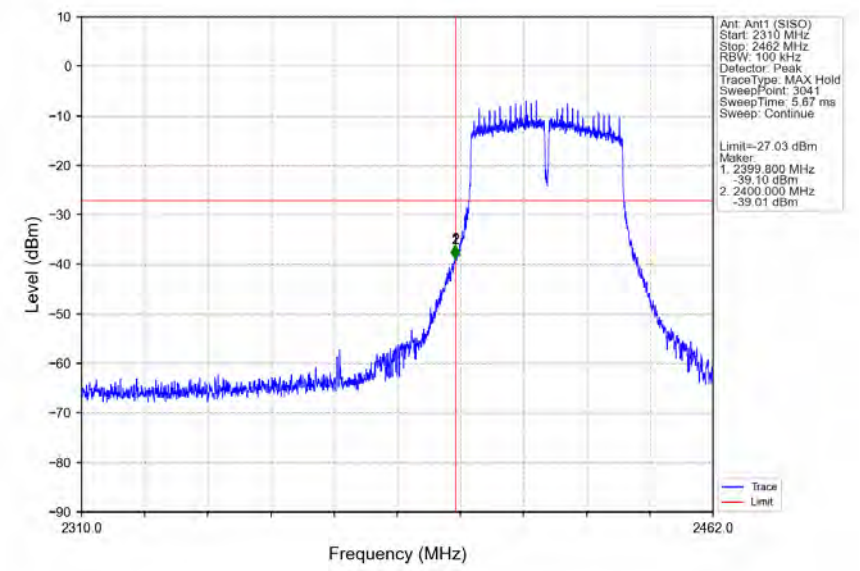
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



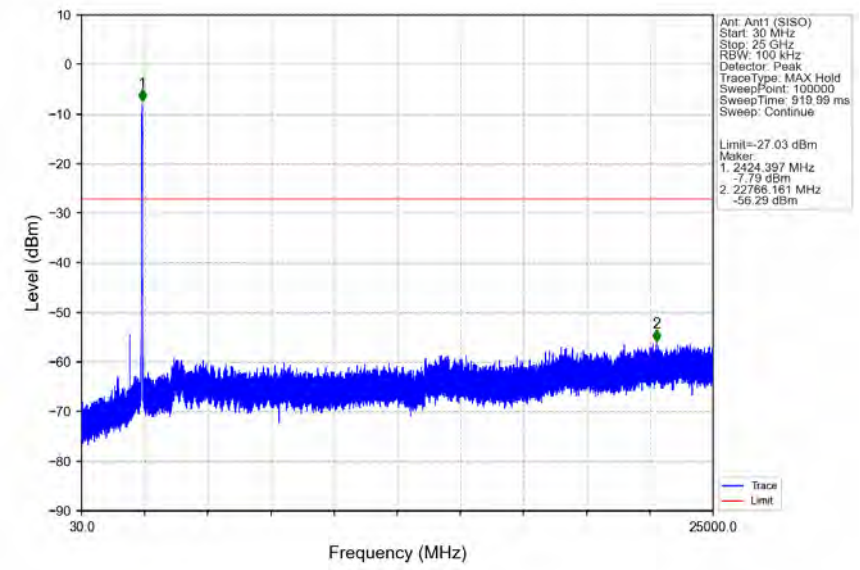
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



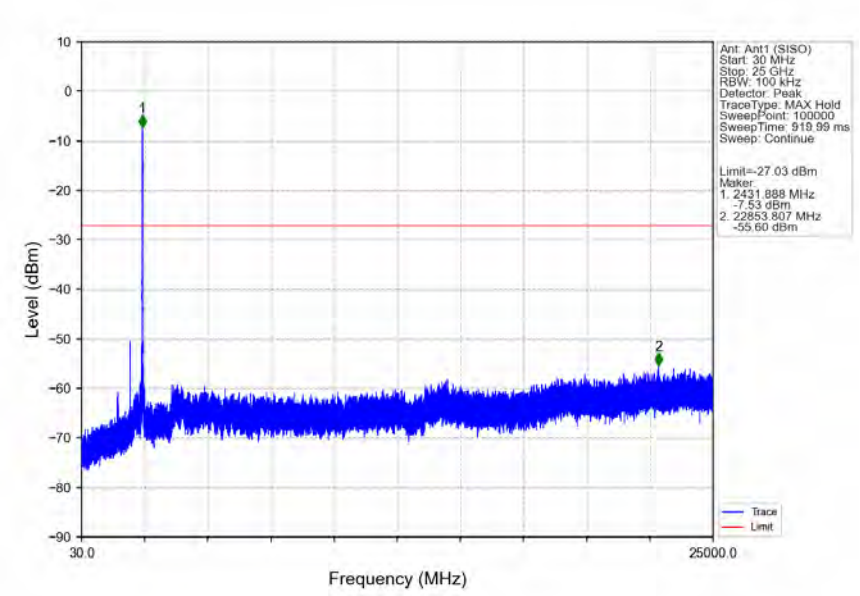
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



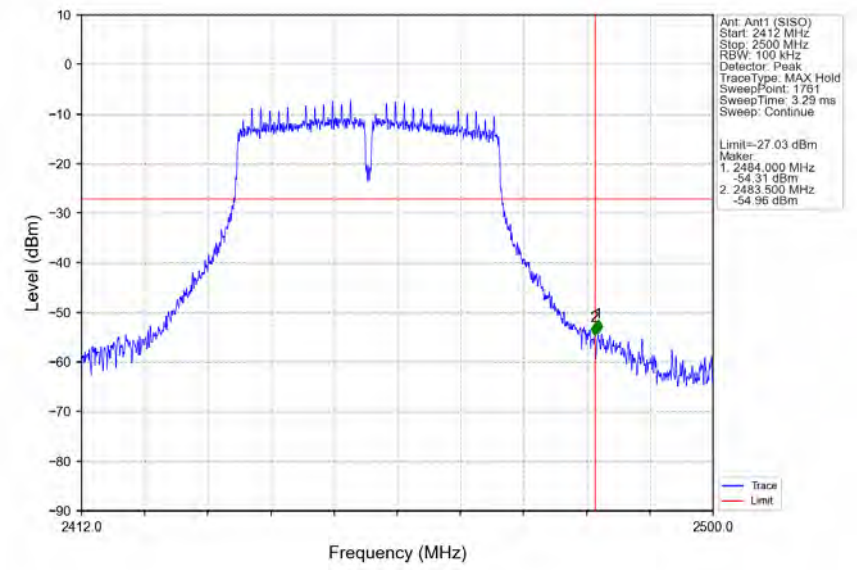
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



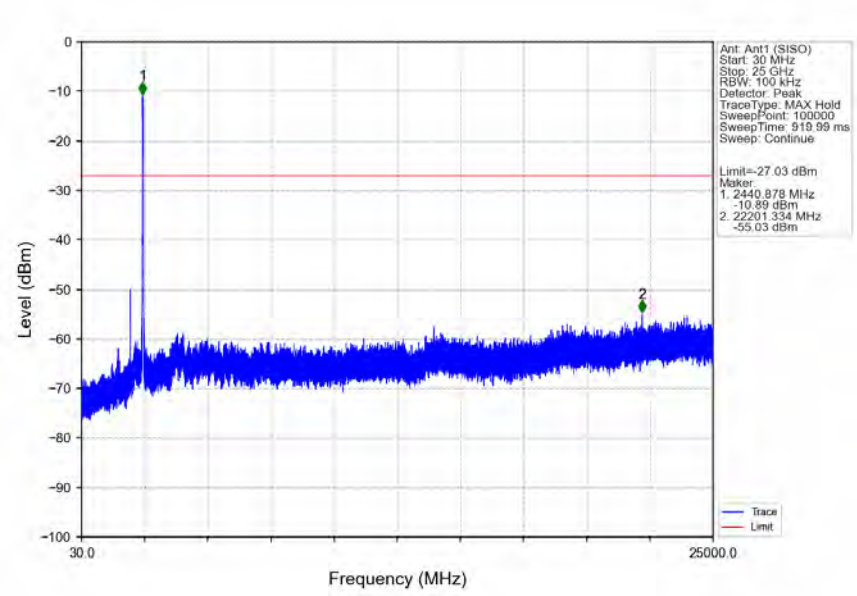
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



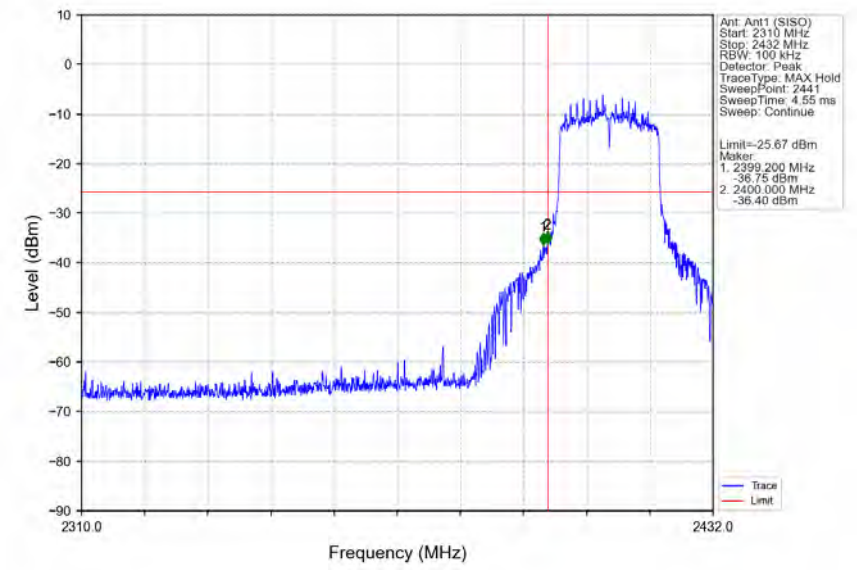
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



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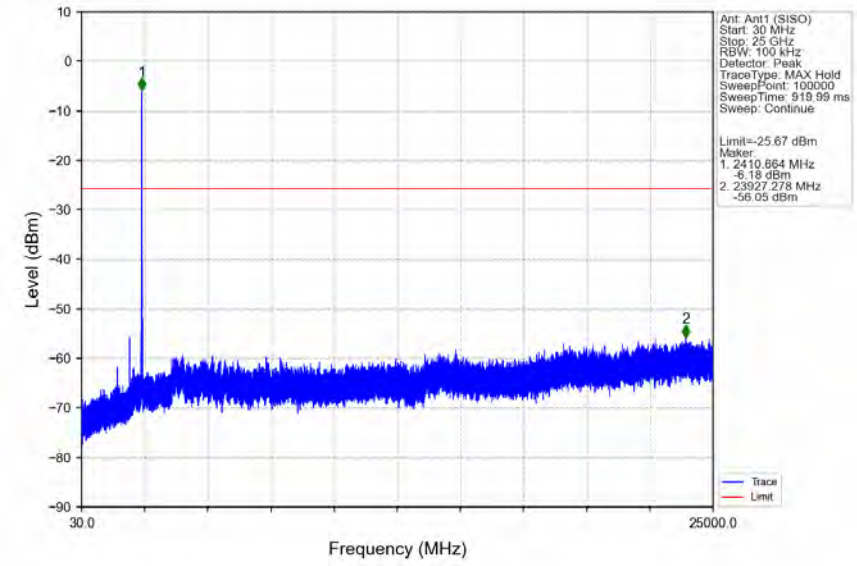

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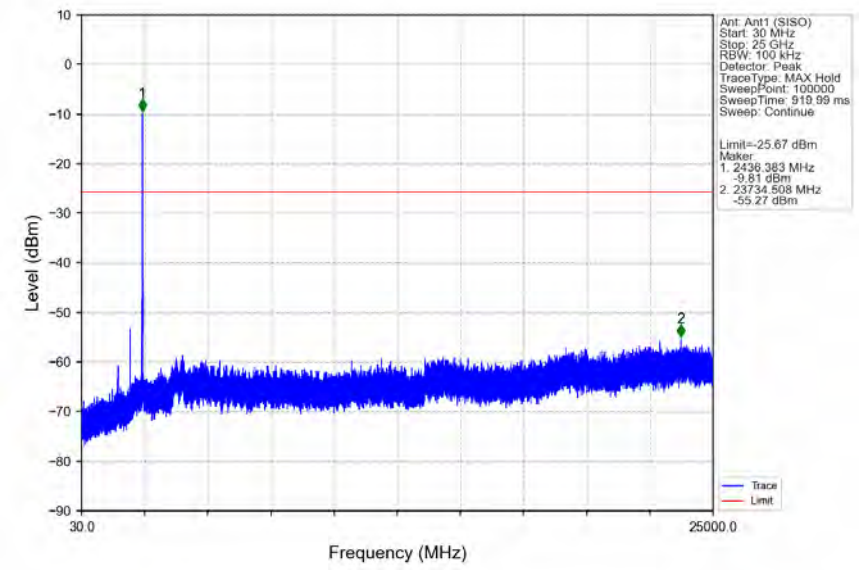
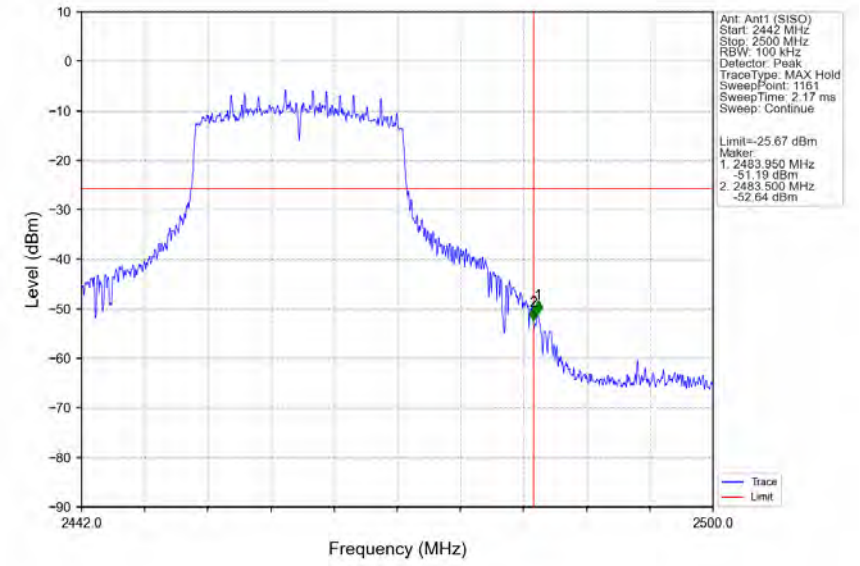
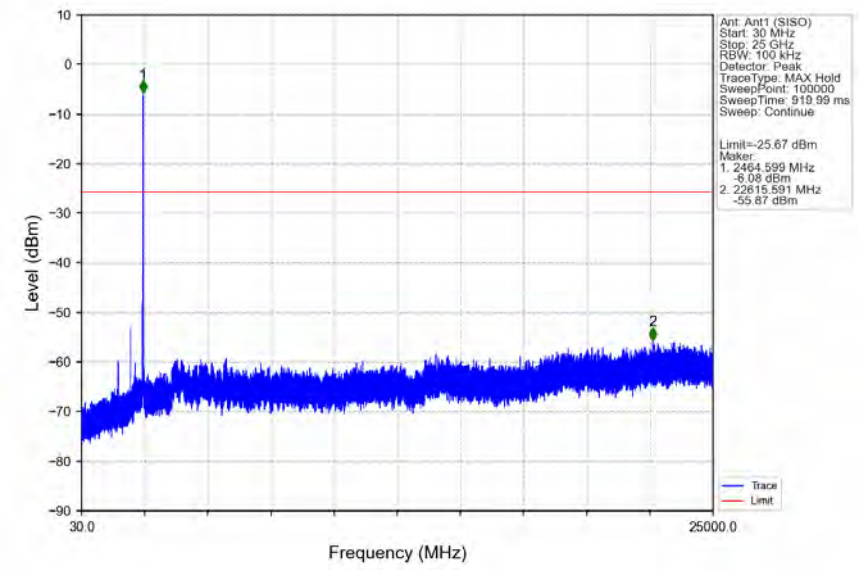


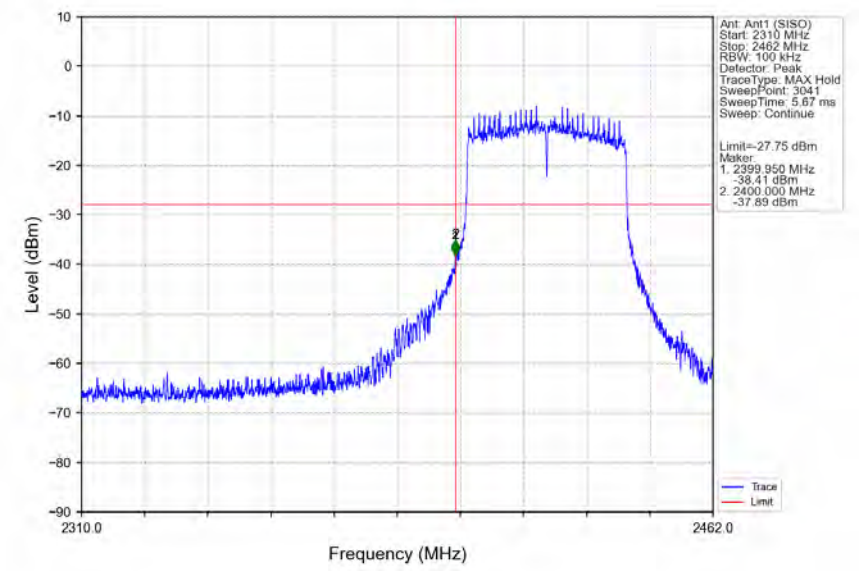
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



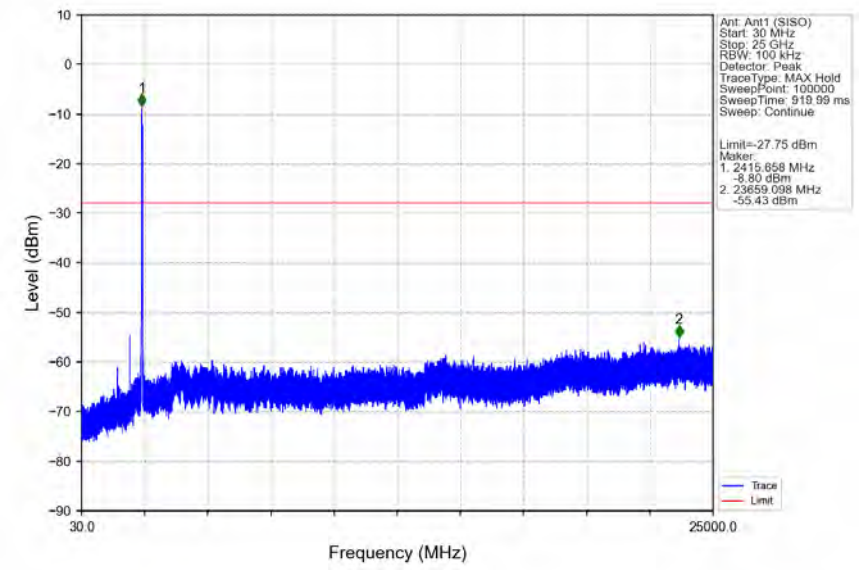
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



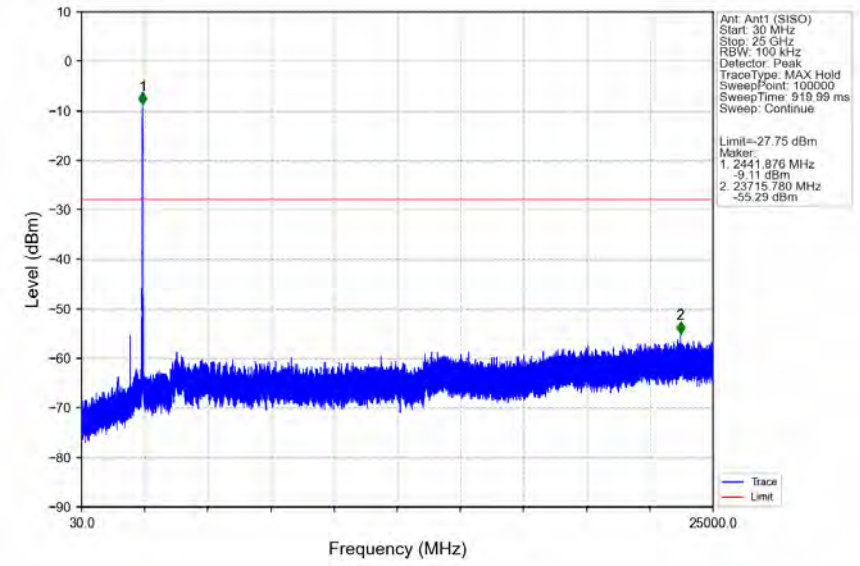
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



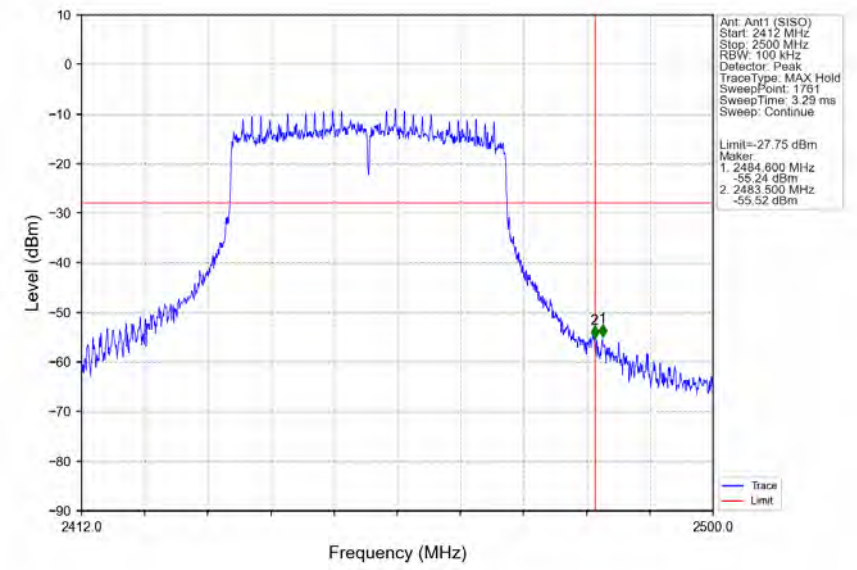
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



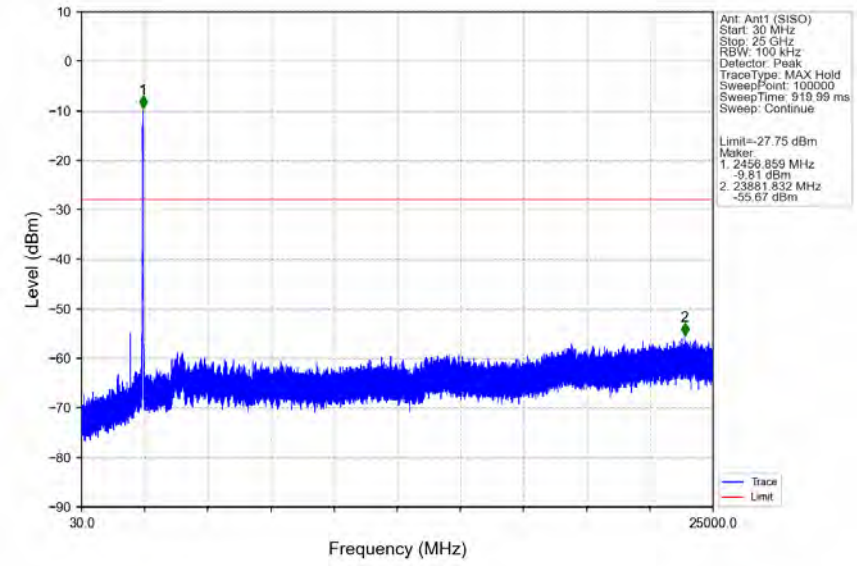
802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



- End of the Report