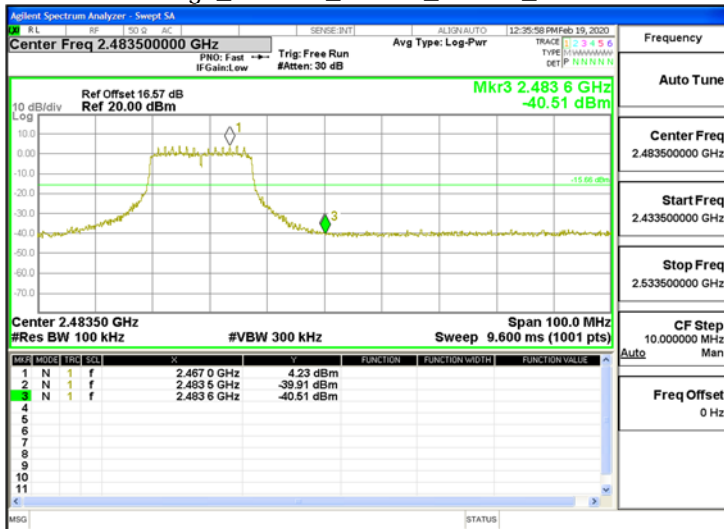
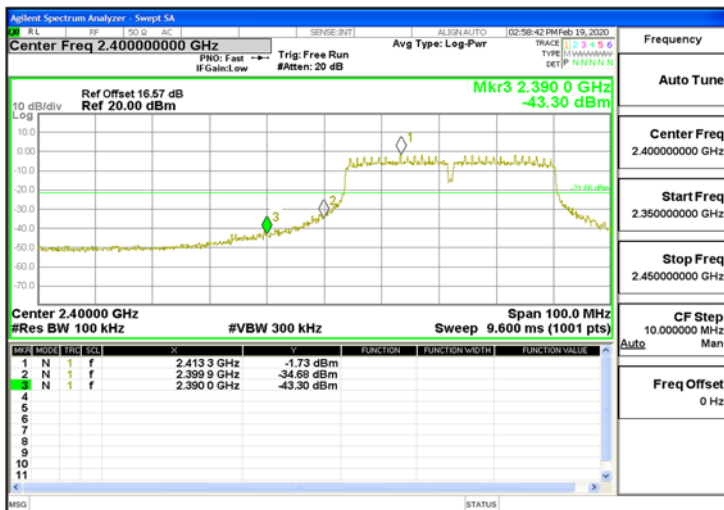


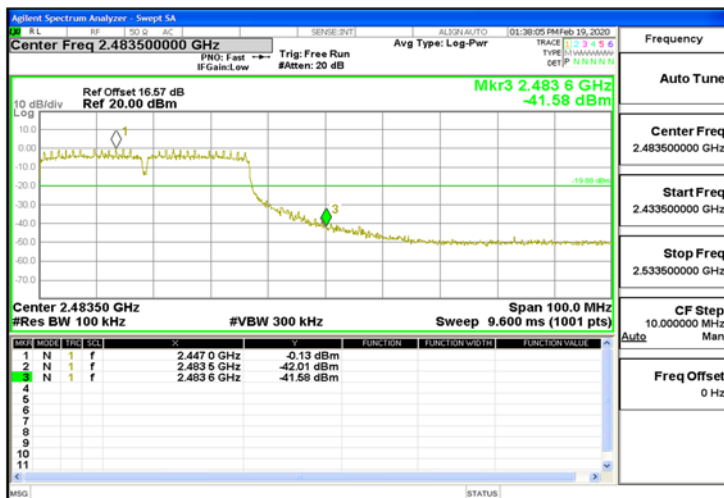
Band Edge_802.11n_20MHz_Chain2_2462MHz



Band Edge_802.11n_40MHz_Chain2_2422MHz



Band Edge_802.11n_40MHz_Chain2_2452MHz



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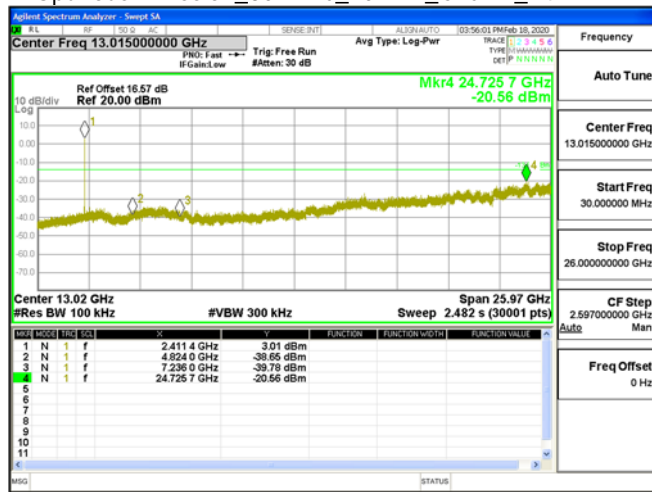
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f (886-2) 2298-0488

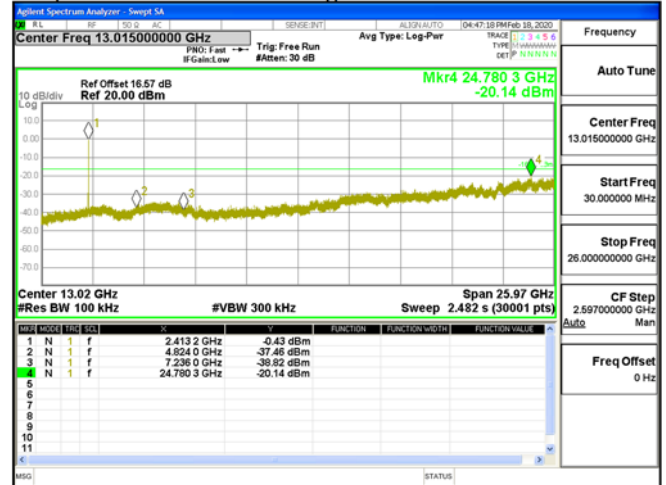
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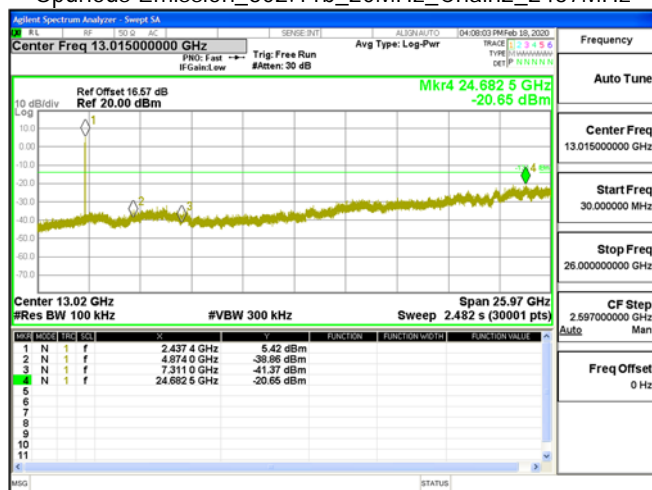
Spurious Emission_802.11b_20MHz_Chain2_2412MHz



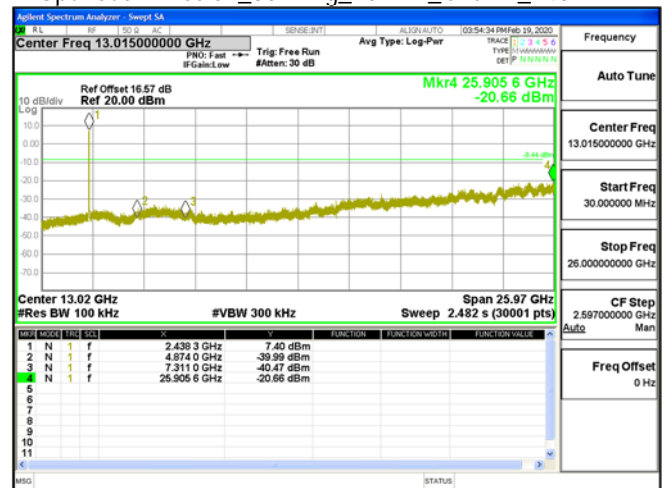
Spurious Emission_802.11g_20MHz_Chain2_2412MHz



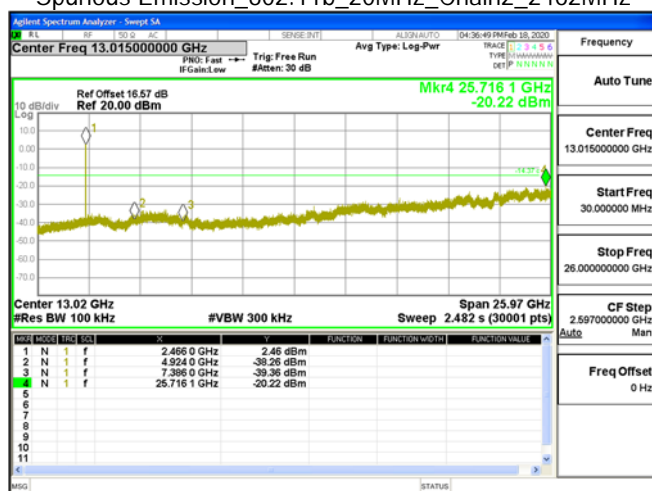
Spurious Emission_802.11b_20MHz_Chain2_2437MHz



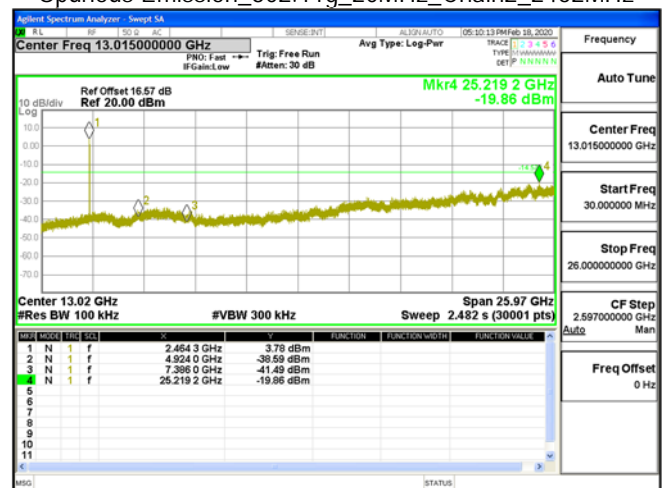
Spurious Emission_802.11g_20MHz_Chain2_2437MHz



Spurious Emission_802.11b_20MHz_Chain2_2462MHz



Spurious Emission_802.11g_20MHz_Chain2_2462MHz

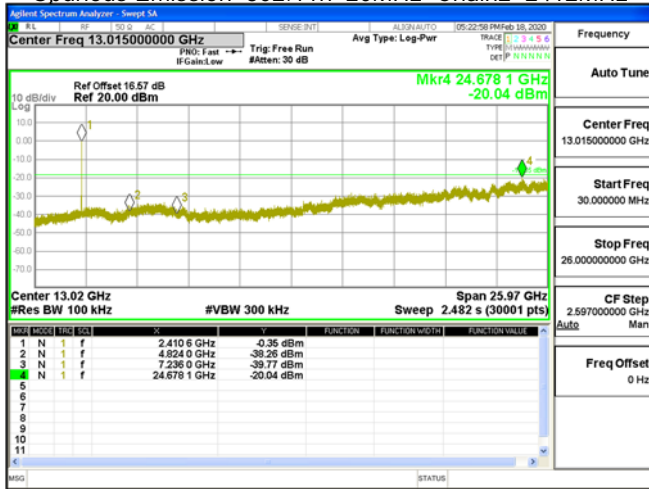


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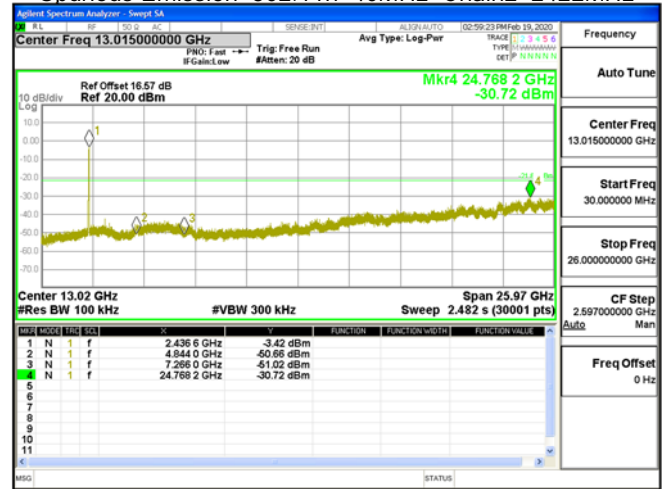
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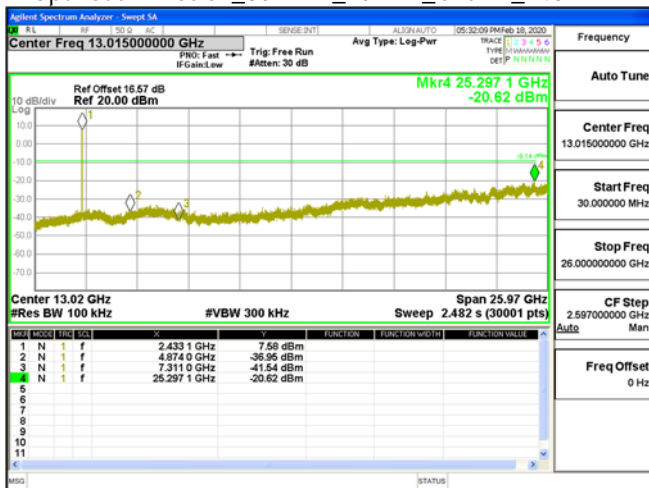
Spurious Emission 802.11n 20MHz Chain2 2412MHz



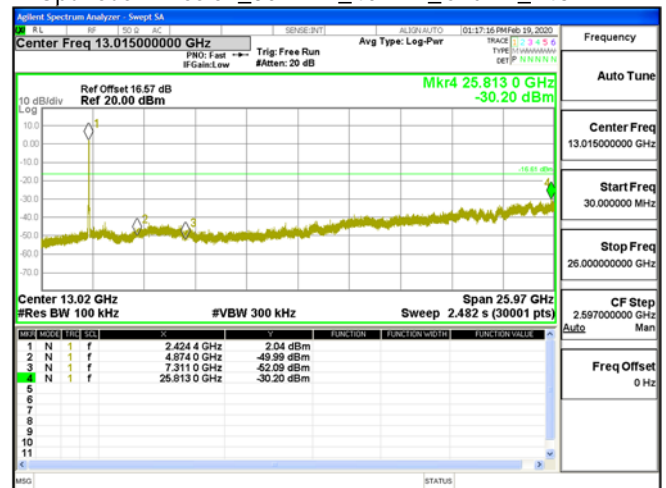
Spurious Emission 802.11n 40MHz Chain2 2422MHz



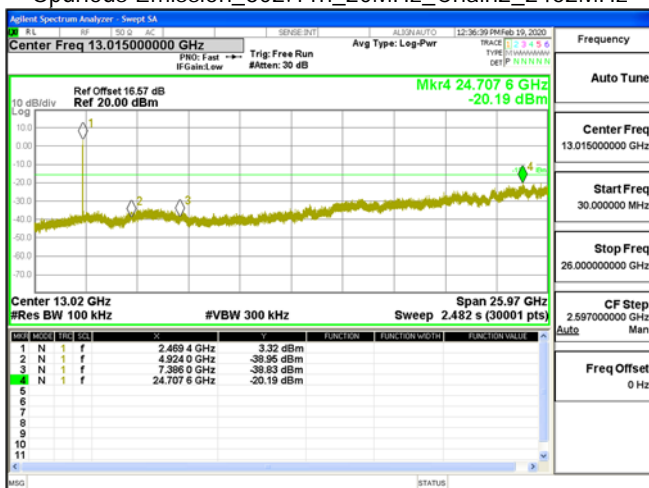
Spurious Emission_802.11n_20MHz_Chain2_2437MHz



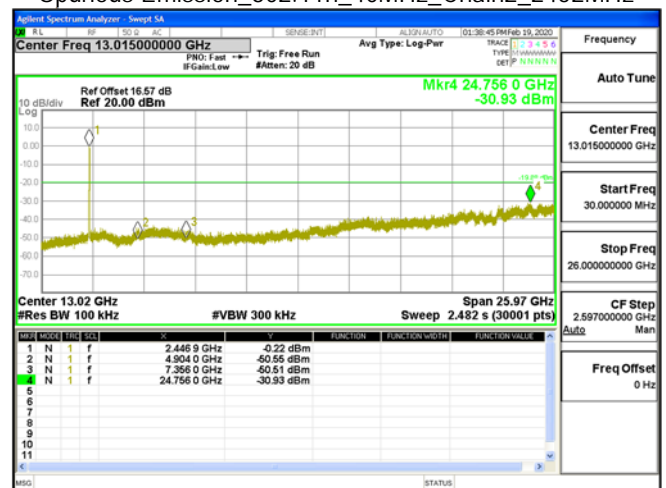
Spurious Emission_802.11n_40MHz_Chain2_2437MHz



Spurious Emission_802.11n_20MHz_Chain2_2462MHz



Spurious Emission_802.11n_40MHz_Chain2_2452MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

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. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (dBμV/m).

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11.2 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	01/03/2020	01/02/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/20/2019	08/19/2020
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2019	12/24/2020
3m Site NSA	SGS	966 chamber	N/A	01/02/2019	01/01/2021
Loop Antenna	ETS.LINDGREN	6502	148045	10/15/2019	10/14/2020
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
EMI Test Receiver	R&S	ESCI 7	1166.5950.07	07/04/2019	07/03/2020
Pre-Amplifier	HP	8449B	3008A00578	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A07676	01/02/2020	01/01/2021
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	01/02/2020	01/01/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	01/02/2020	01/01/2021
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2020	01/01/2021
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020

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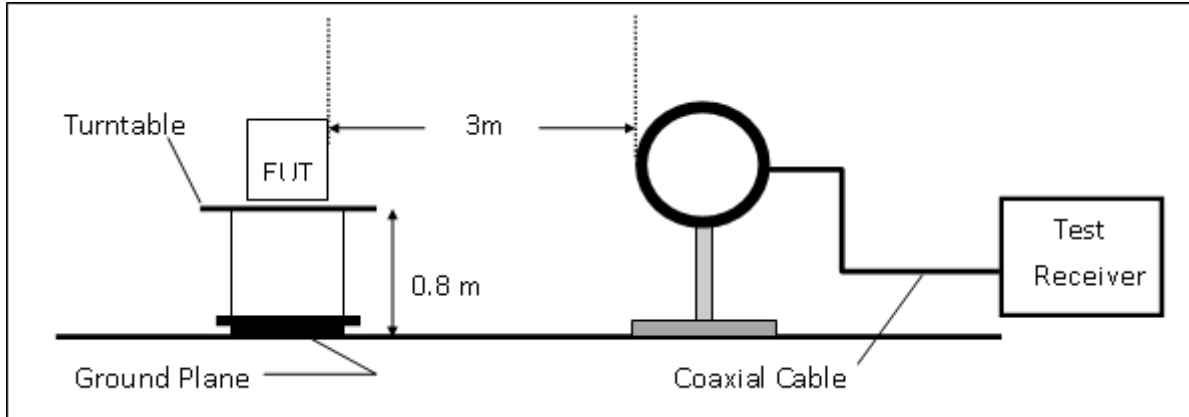
f (886-2) 2298-0488

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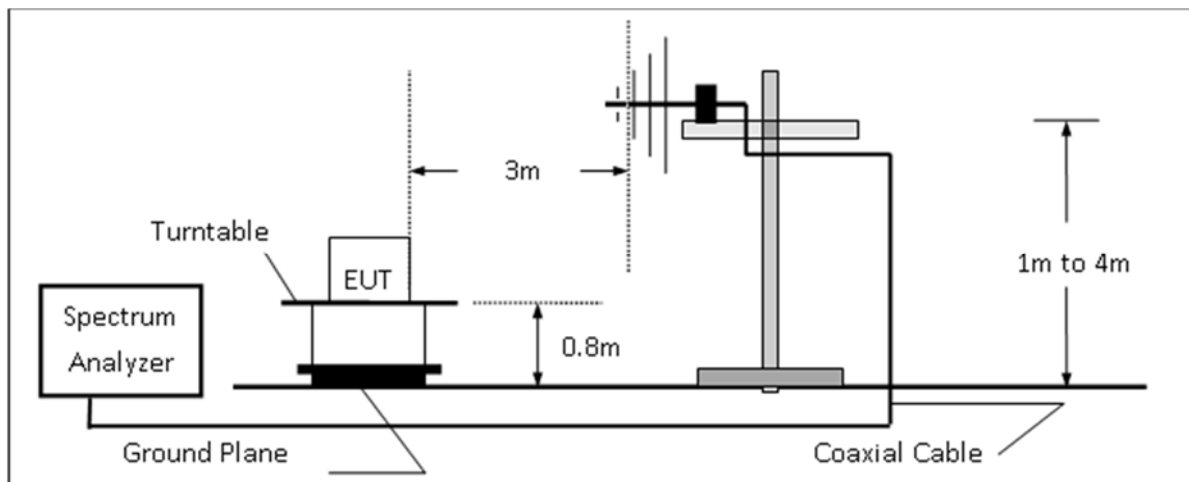
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11.3 Test SET-UP

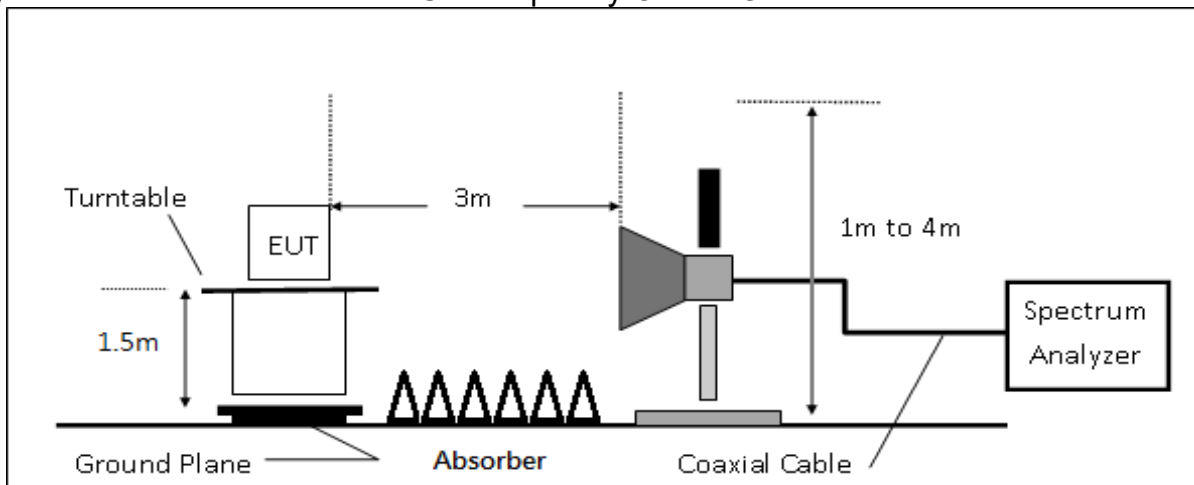
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW $\geq 1/T$ (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
12. Repeat above procedures until all default test channel measured were complete.

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11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(uV/m)$

Actual FS(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)

Factor(dB) = Antenna Factor(dBuV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

11.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

11.7 Measurement Result

Note:

1. Refer to next page spectrum analyzer data chart and tabular data sheets.
2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands.

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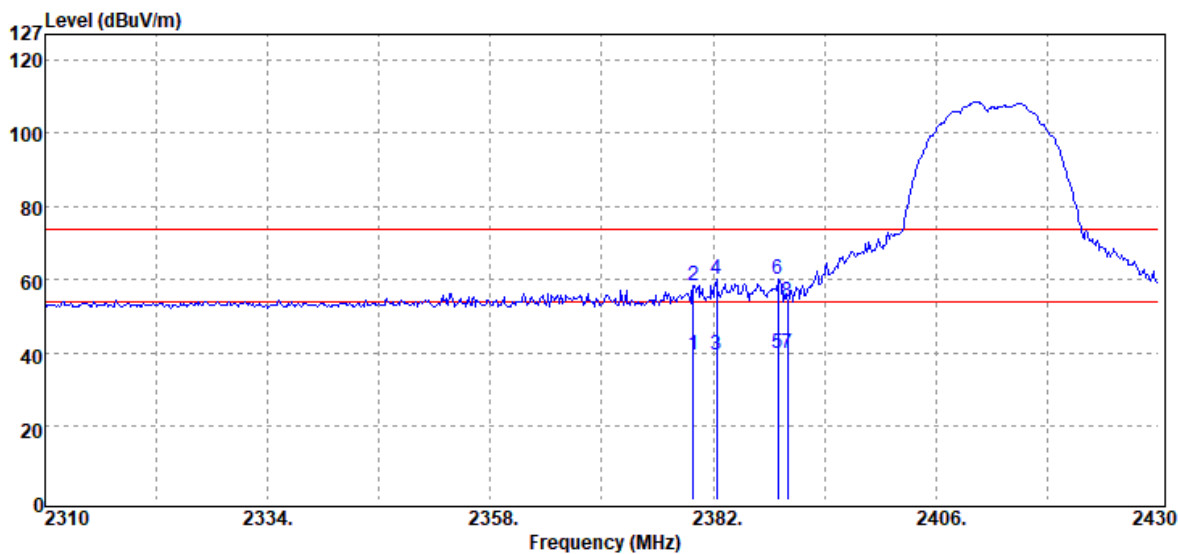
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11.7.1 Radiated Band Edge Measurement Result

ROD Antenna

Report Number :ER/2020/10095
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :VERTICAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2379.84	Average	39.29	0.27	39.56	54.00	-14.44
2379.84	Peak	58.37	0.27	58.64	74.00	-15.36
2382.36	Average	39.29	0.26	39.55	54.00	-14.45
2382.36	Peak	59.78	0.26	60.04	74.00	-13.96
2388.96	Average	39.85	0.24	40.09	54.00	-13.91
2388.96	Peak	59.78	0.24	60.02	74.00	-13.98
2390.00	Average	39.66	0.24	39.90	54.00	-14.10
2390.00	Peak	53.71	0.24	53.95	74.00	-20.05

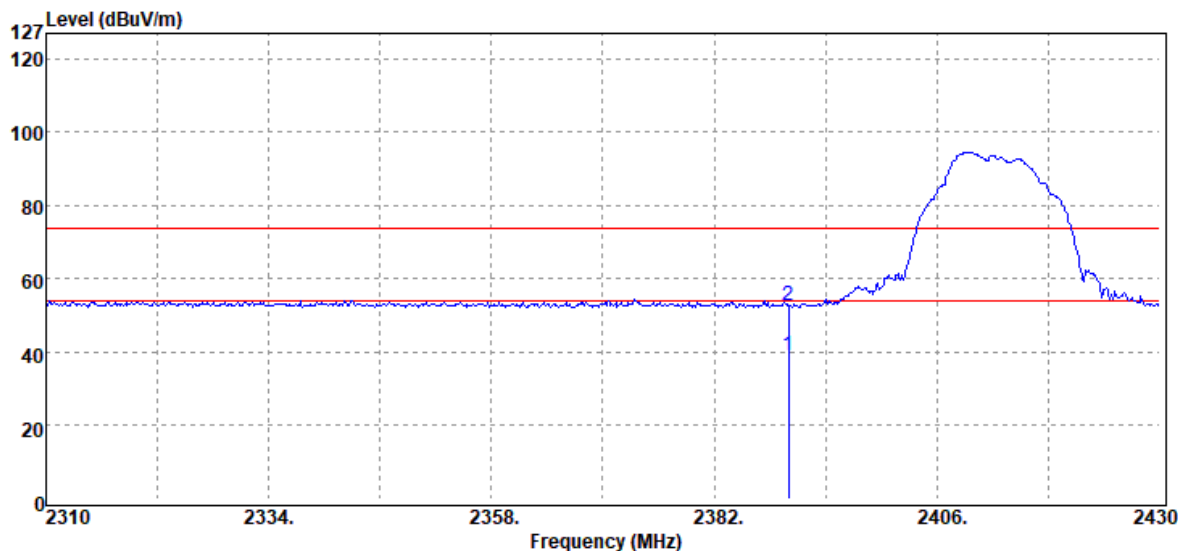
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Report Number :ER/2020/10095
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	Average	38.89	0.24	39.13	54.00	-14.87
2390.00	Peak	52.65	0.24	52.89	74.00	-21.11

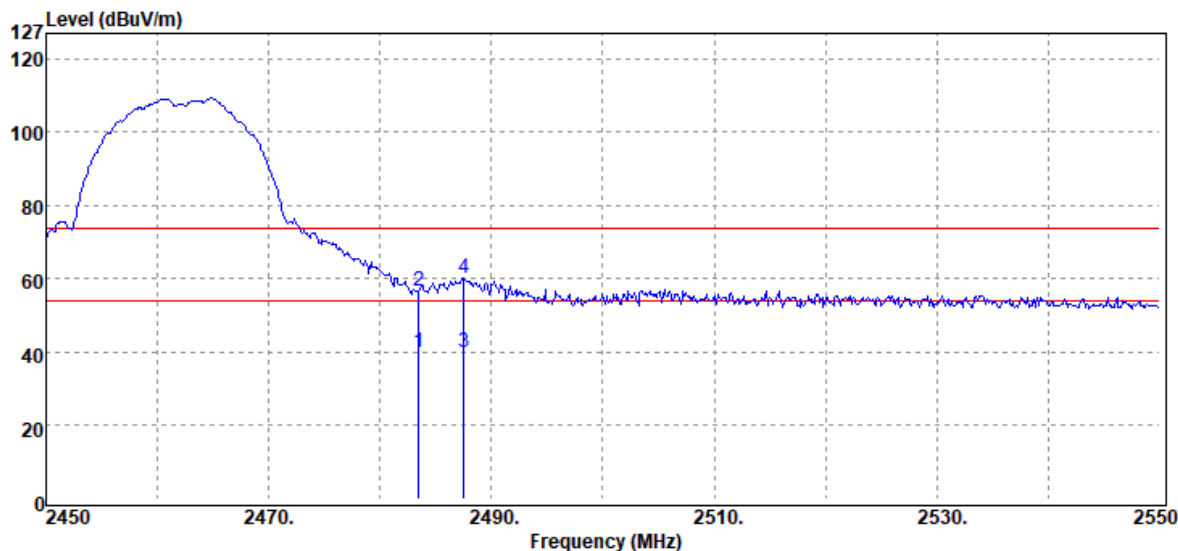
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Report Number :ER/2020/10095
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :VERTICAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	40.32	-0.17	40.15	54.00	-13.85
2483.50	Peak	57.06	-0.17	56.89	74.00	-17.11
2487.50	Average	40.04	-0.20	39.84	54.00	-14.16
2487.50	Peak	60.41	-0.20	60.21	74.00	-13.79

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SGS Taiwan Ltd. No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司 t (886-2) 2299-3279

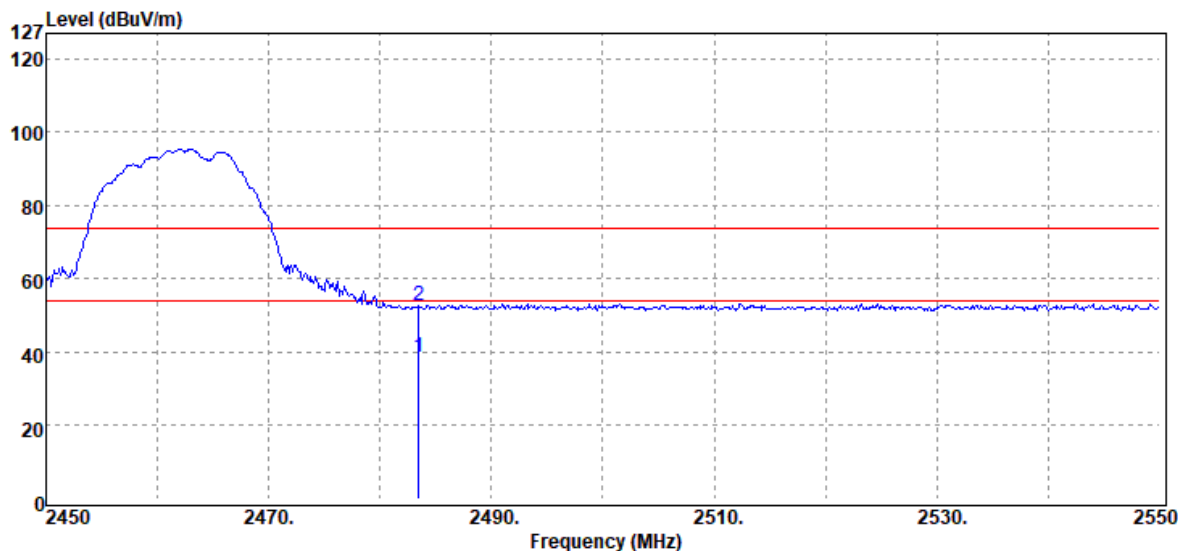
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Report Number :ER/2020/10095
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	38.91	-0.17	38.74	54.00	-15.26
2483.50	Peak	52.72	-0.17	52.55	74.00	-21.45

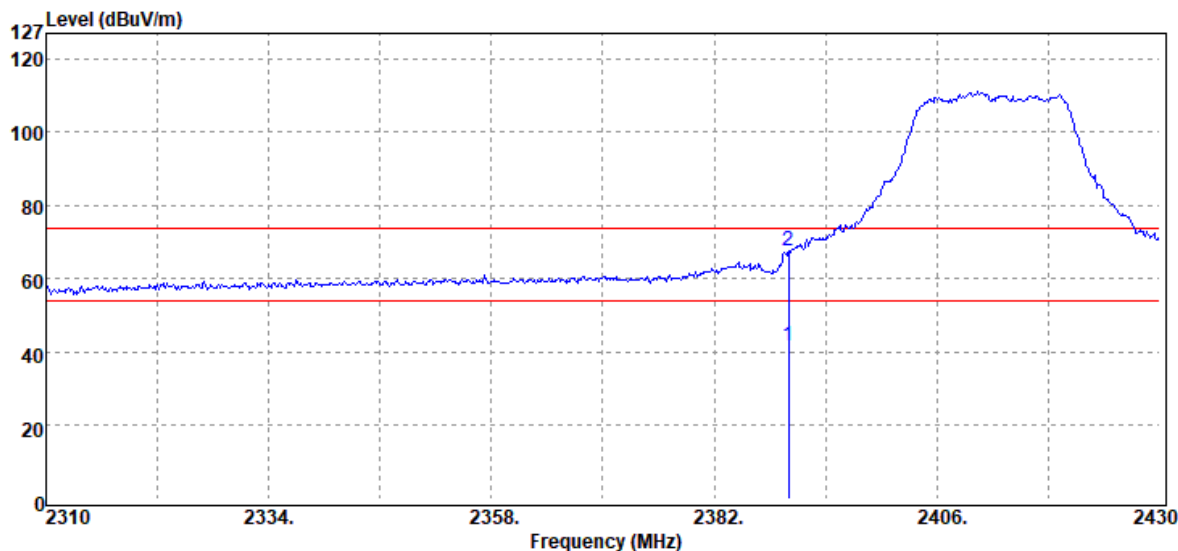
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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :VERTICAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	41.33	0.24	41.57	54.00	-12.43
2390.00	Peak	67.53	0.24	67.77	74.00	-6.23

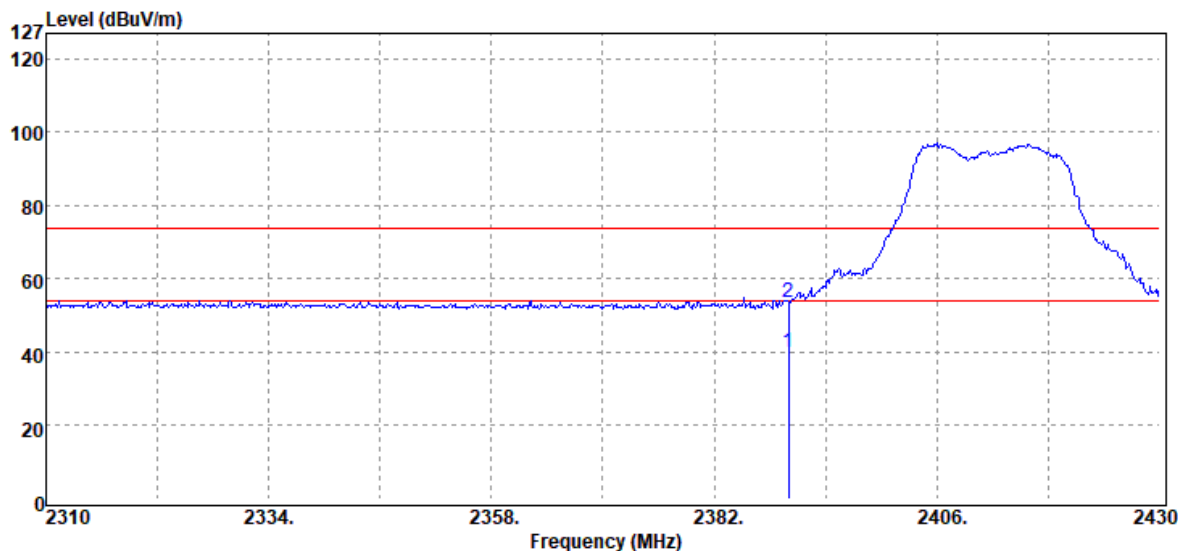
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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :HORIZONTAL
Engineer :Nick



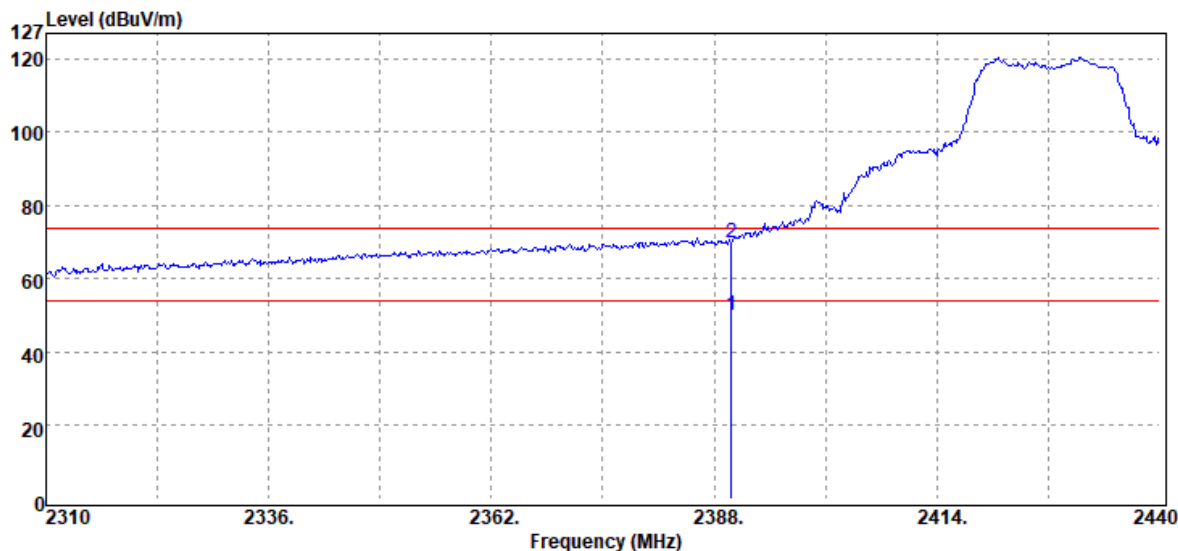
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	Average	39.78	0.24	40.02	54.00	-13.98
2390.00	Peak	53.33	0.24	53.57	74.00	-20.43

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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2427 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :VERTICAL
Engineer :Nick


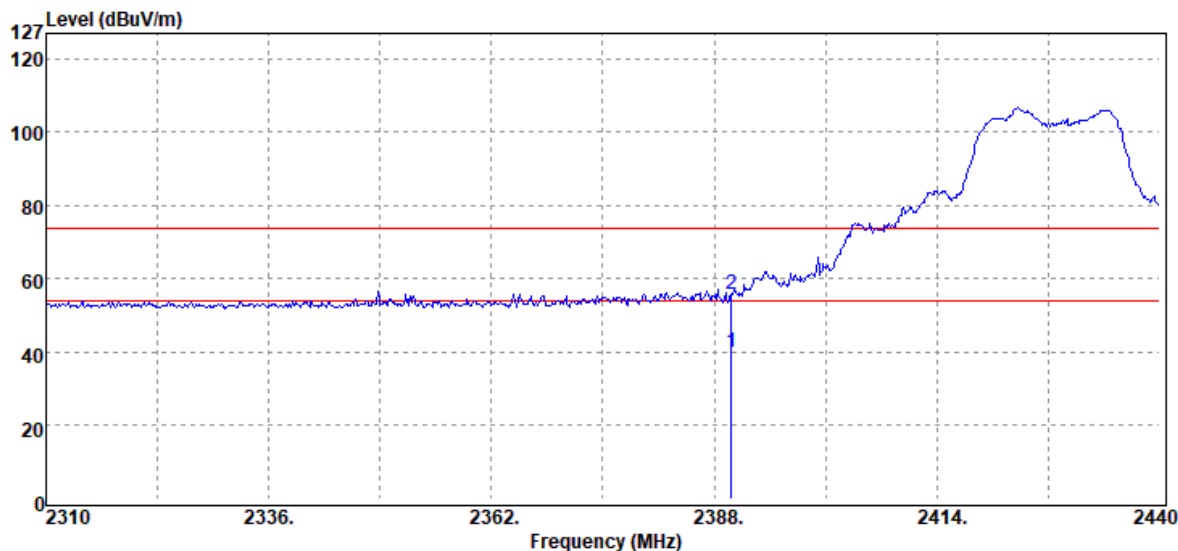
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	49.69	0.24	49.93	54.00	-4.07
2390.00	Peak	69.83	0.24	70.07	74.00	-3.93

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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2427 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :HORIZONTAL
Engineer :Nick


Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	39.64	0.24	39.88	54.00	-14.12
2390.00	Peak	55.40	0.24	55.64	74.00	-18.36

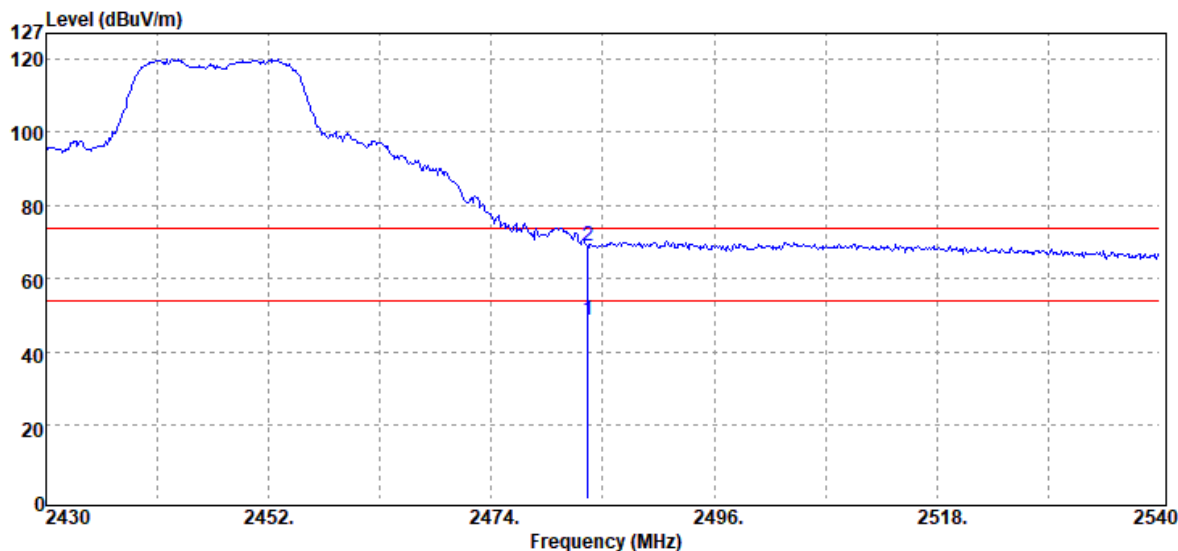
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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :VERTICAL
Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	48.75	-0.17	48.58	54.00	-5.42
2483.50	Peak	69.07	-0.17	68.90	74.00	-5.10

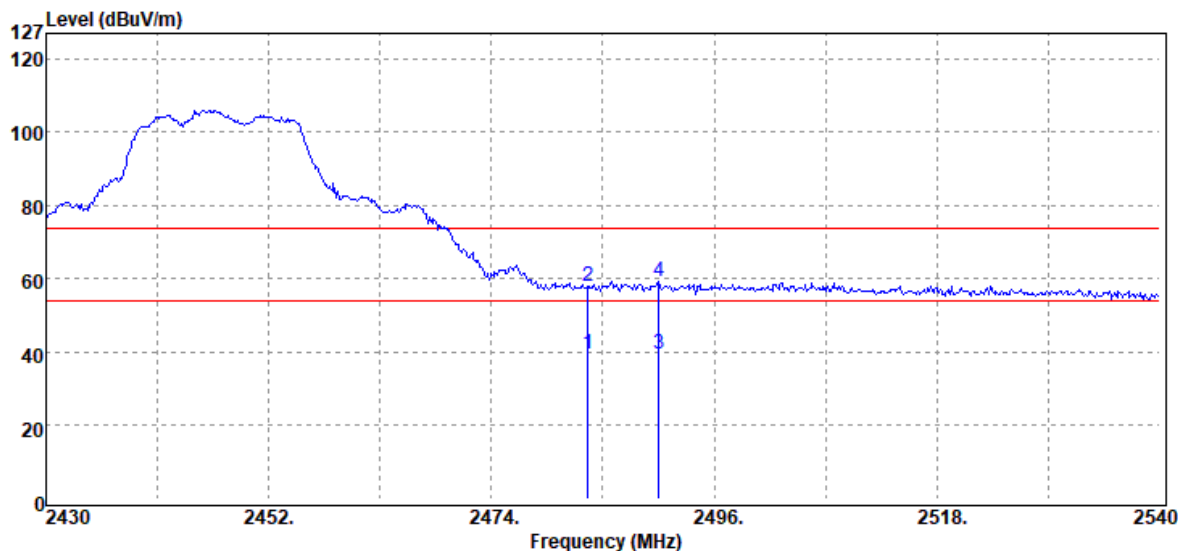
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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	39.68	-0.17	39.51	54.00	-14.49
2483.50	Peak	58.10	-0.17	57.93	74.00	-16.07
2490.50	Average	39.96	-0.20	39.76	54.00	-14.24
2490.50	Peak	59.59	-0.20	59.39	74.00	-14.61

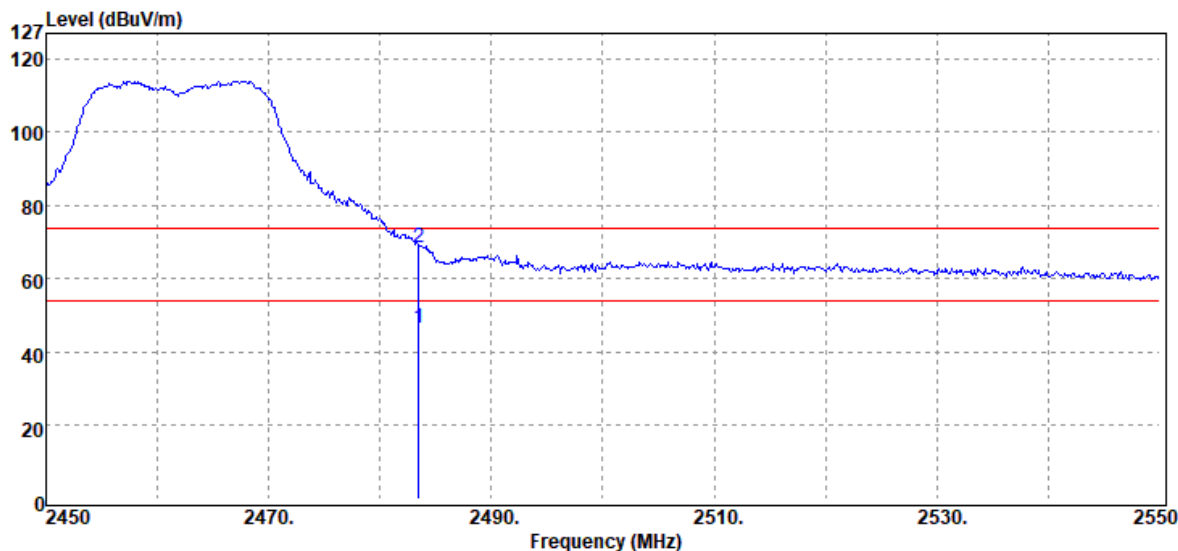
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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :VERTICAL
Engineer :Nick



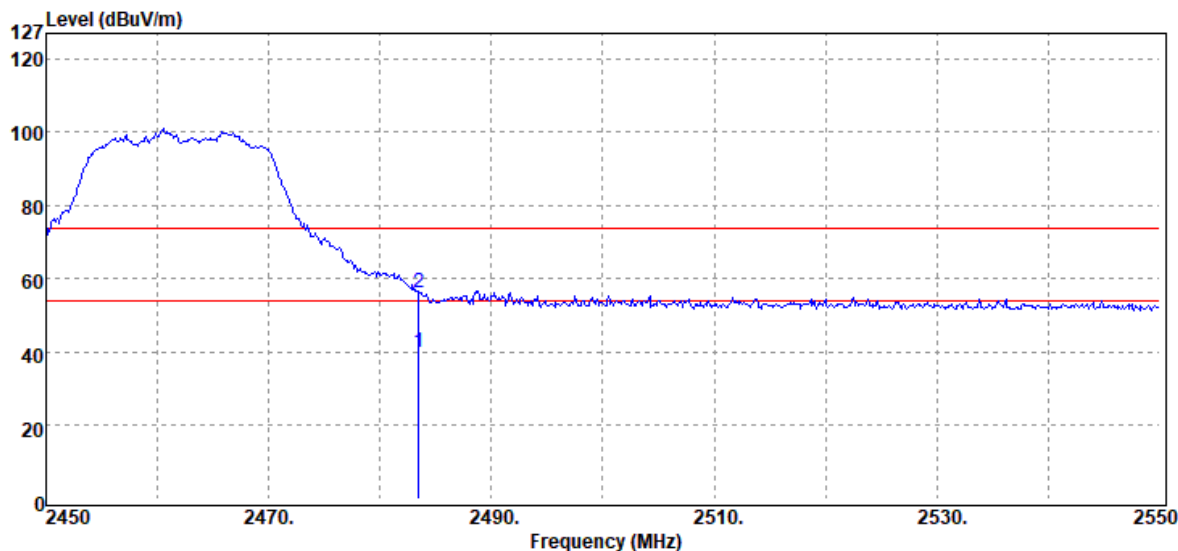
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	46.89	-0.17	46.72	54.00	-7.28
2483.50	Peak	68.73	-0.17	68.56	74.00	-5.44

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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :HORIZONTAL
Engineer :Nick


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	39.95	-0.17	39.78	54.00	-14.22
2483.50	Peak	56.47	-0.17	56.30	74.00	-17.70

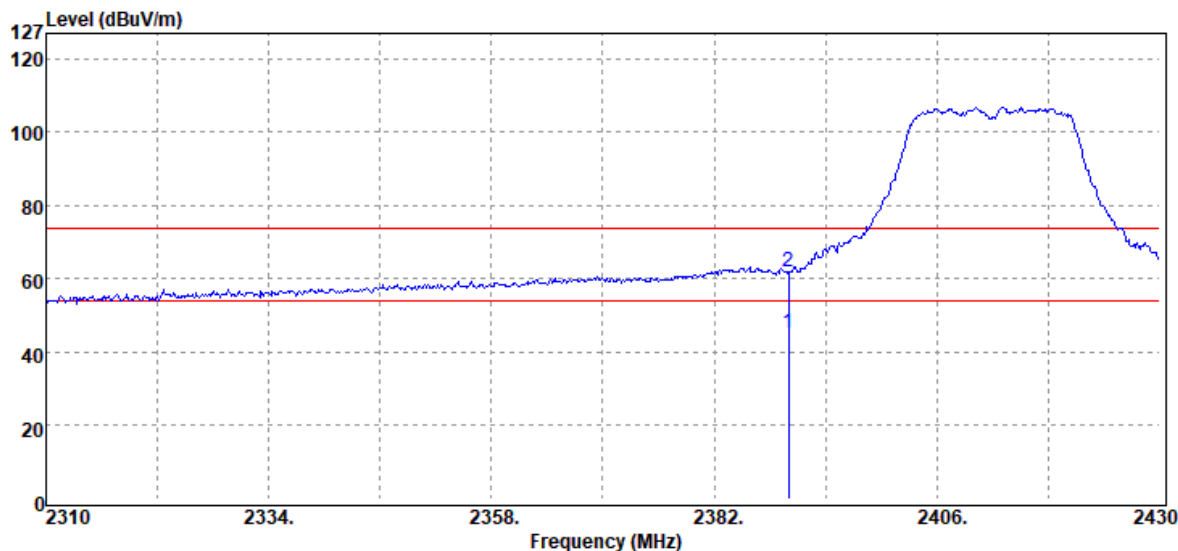
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :VERTICAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2390.00	Average	45.07	0.24	45.31	54.00	-8.69
2390.00	Peak	61.91	0.24	62.15	74.00	-11.85

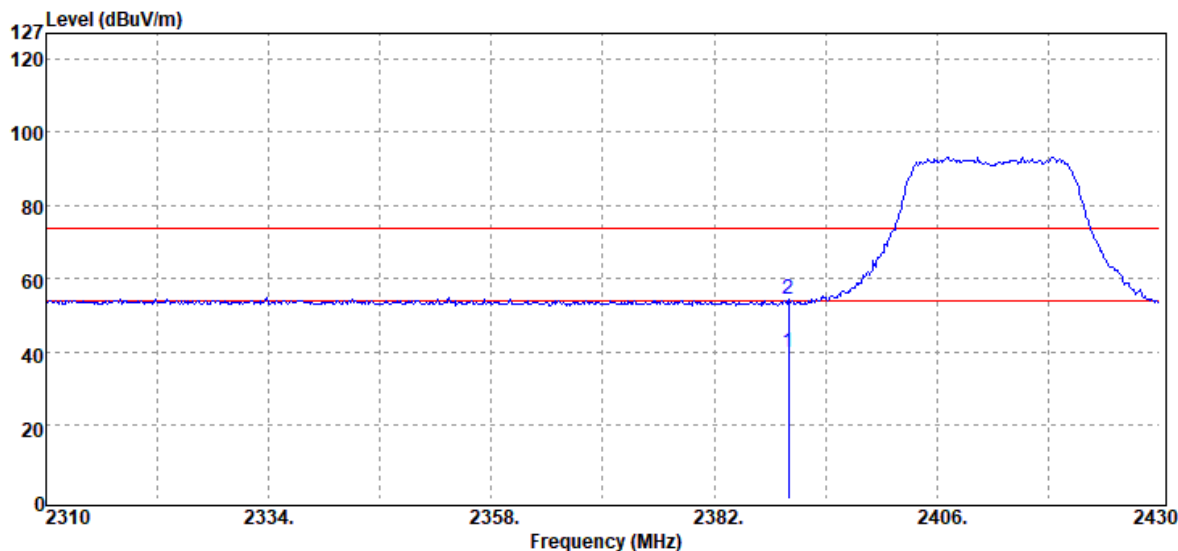
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	Average	39.95	0.24	40.19	54.00	-13.81
2390.00	Peak	54.29	0.24	54.53	74.00	-19.47

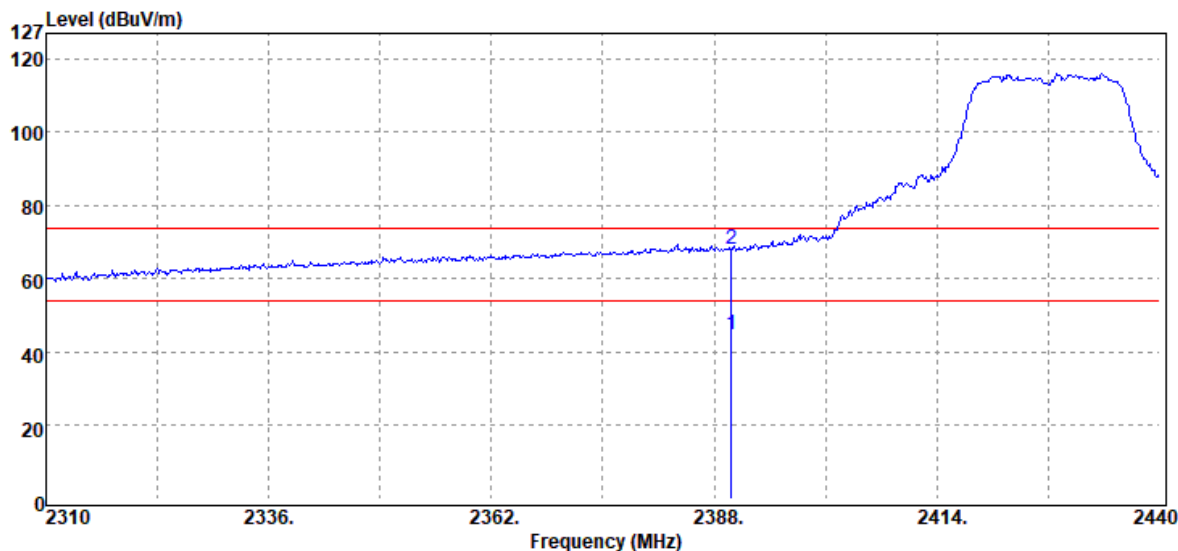
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2427 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :VERTICAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	44.75	0.24	44.99	54.00	-9.01
2390.00	Peak	67.76	0.24	68.00	74.00	-6.00

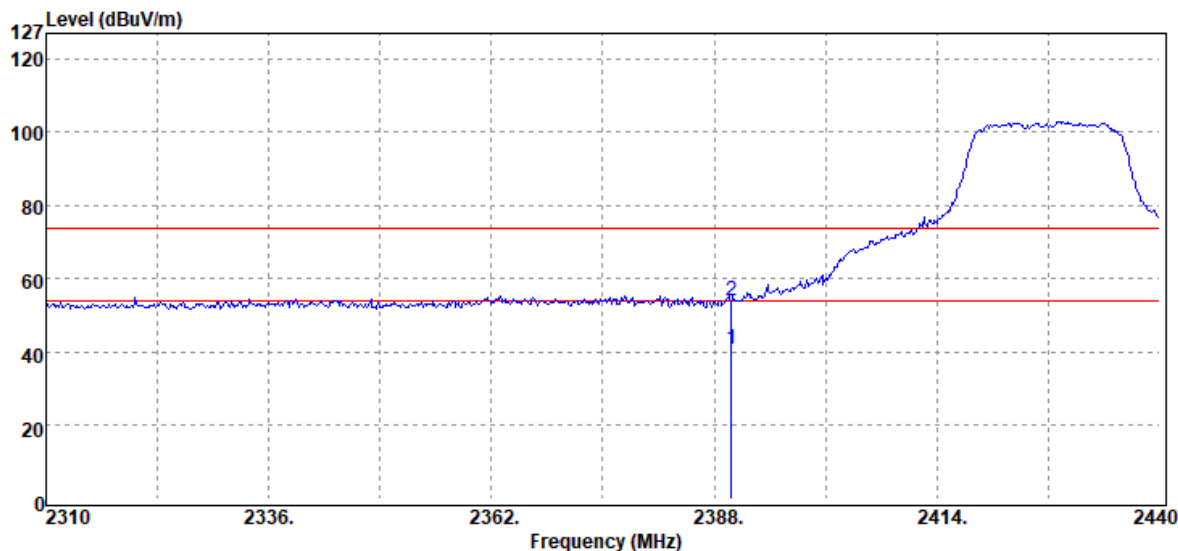
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2427 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	40.62	0.24	40.86	54.00	-13.14
2390.00	Peak	53.62	0.24	53.86	74.00	-20.14

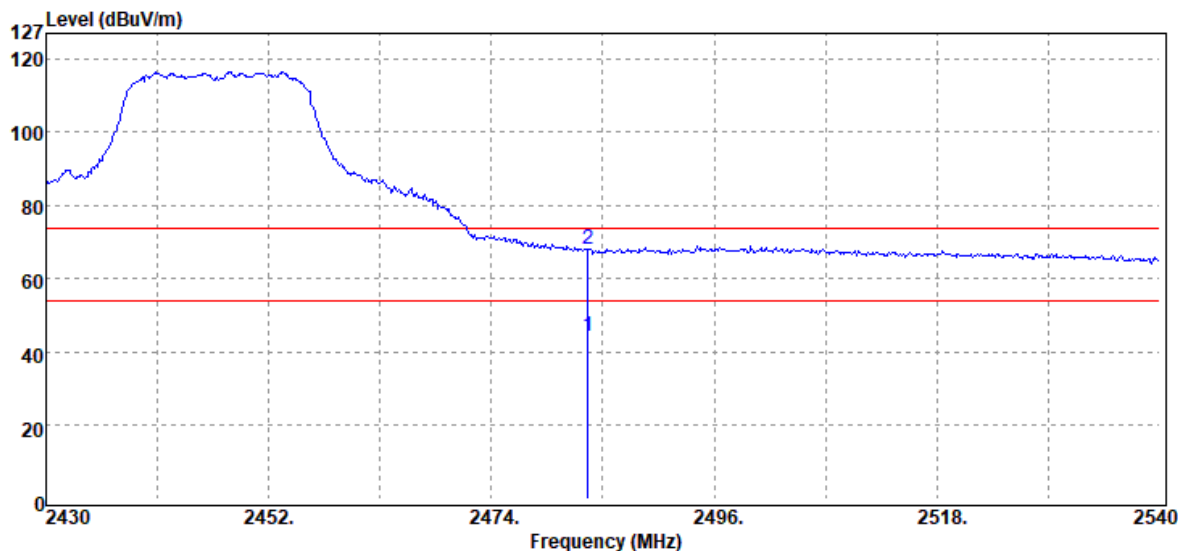
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :VERTICAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	44.54	-0.17	44.37	54.00	-9.63
2483.50	Peak	68.28	-0.17	68.11	74.00	-5.89

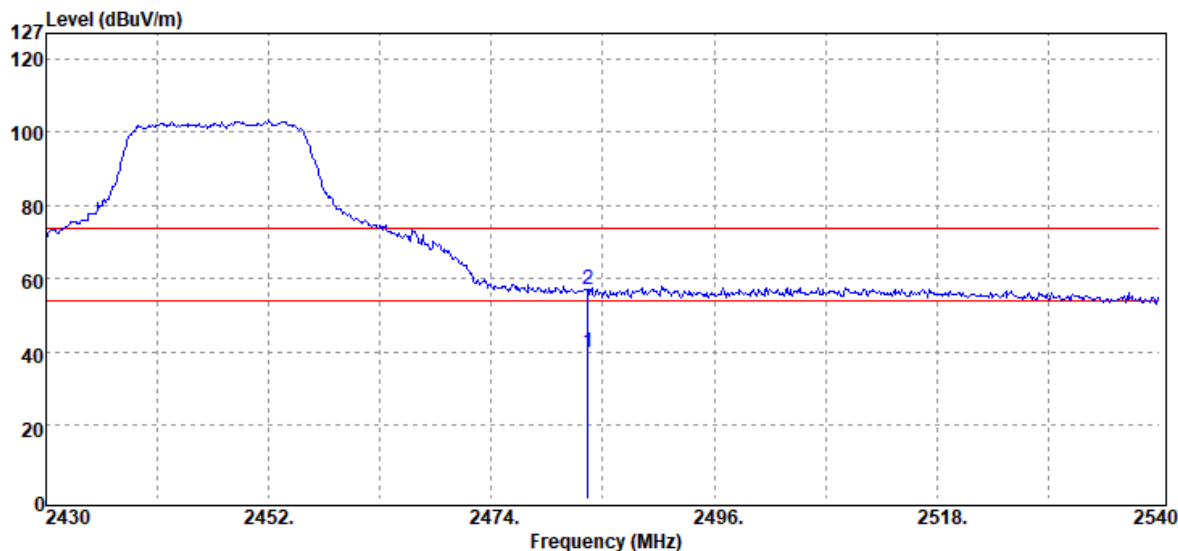
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :HORIZONTAL
Engineer :Nick



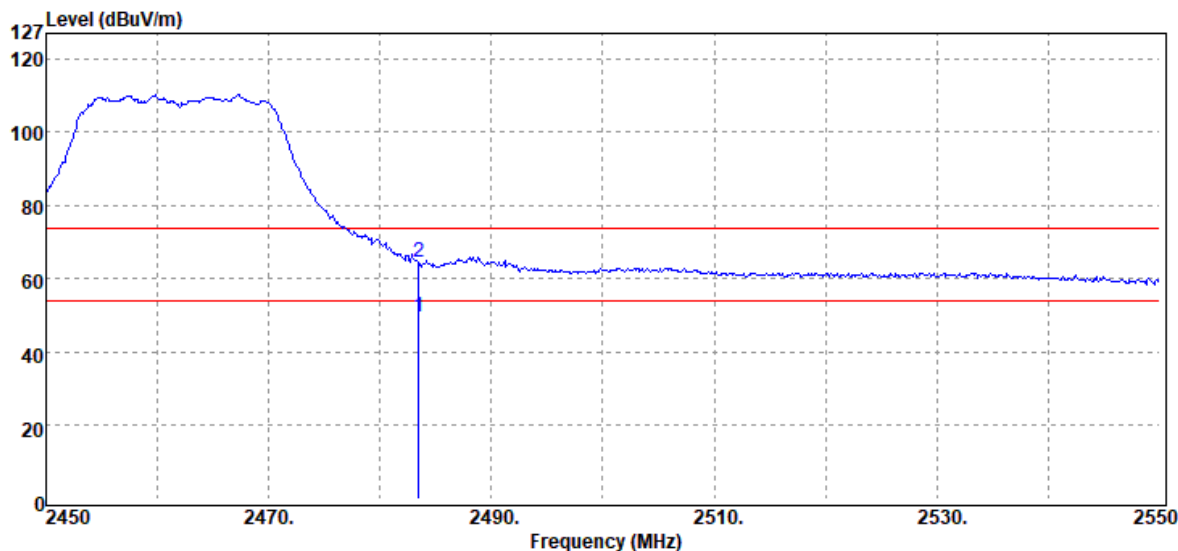
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	40.26	-0.17	40.09	54.00	-13.91
2483.50	Peak	57.17	-0.17	57.00	74.00	-17.00

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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :VERTICAL
Engineer :Nick


Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	50.01	-0.17	49.84	54.00	-4.16
2483.50	Peak	64.78	-0.17	64.61	74.00	-9.39

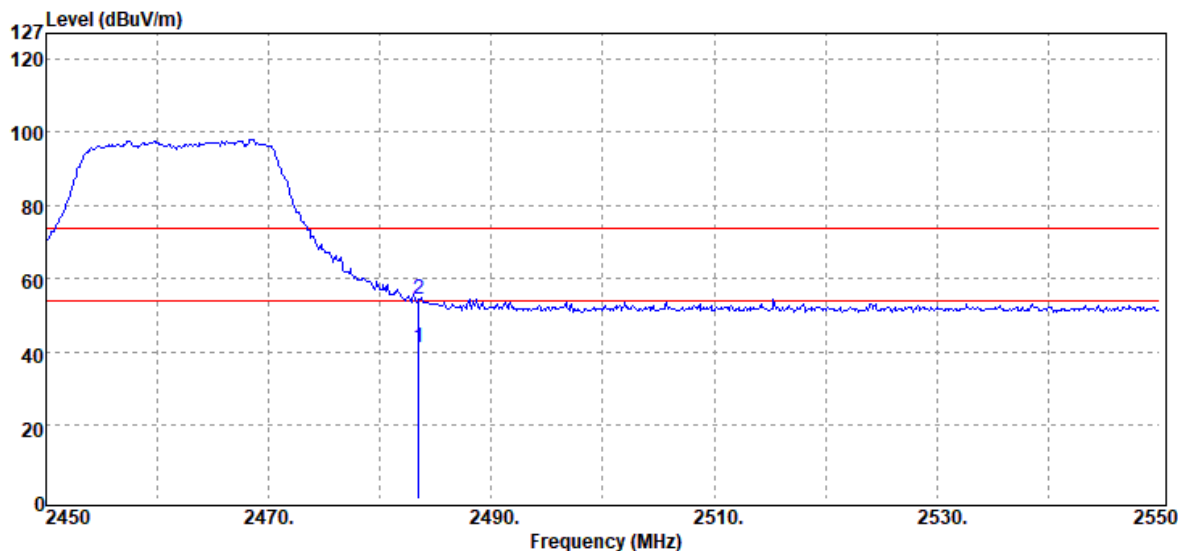
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :HORIZONTAL
Engineer :Nick



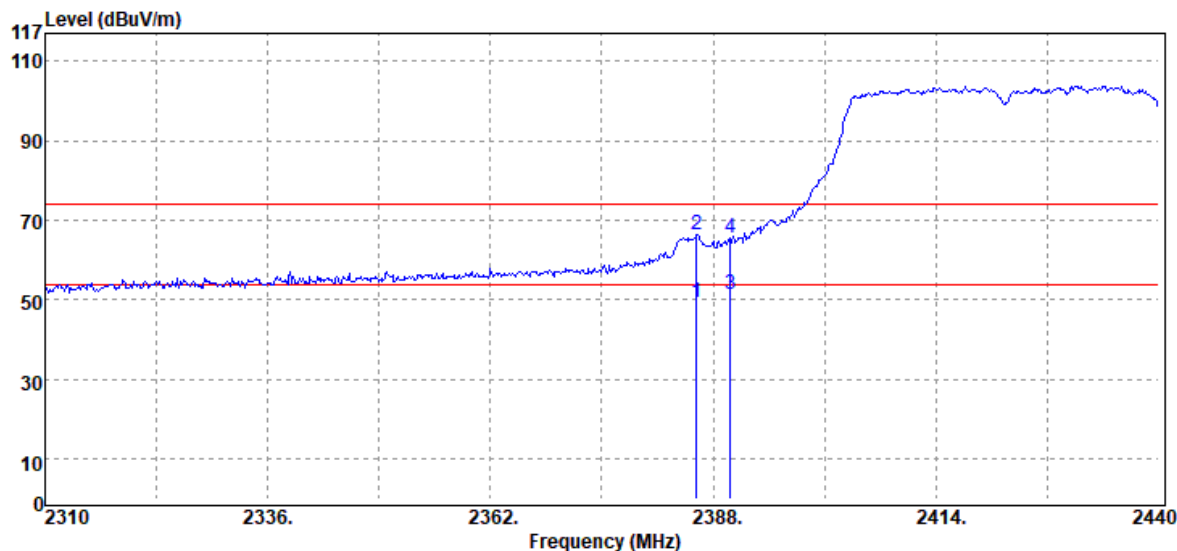
Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	41.51	-0.17	41.34	54.00	-12.66
2483.50	Peak	54.84	-0.17	54.67	74.00	-19.33

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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2422 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :VERTICAL
Engineer :Nick


Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2386.05	Average	49.04	0.26	49.30	54.00	-4.70
2386.05	Peak	66.16	0.26	66.42	74.00	-7.58
2390.00	Average	51.05	0.24	51.29	54.00	-2.71
2390.00	Peak	65.20	0.24	65.44	74.00	-8.56

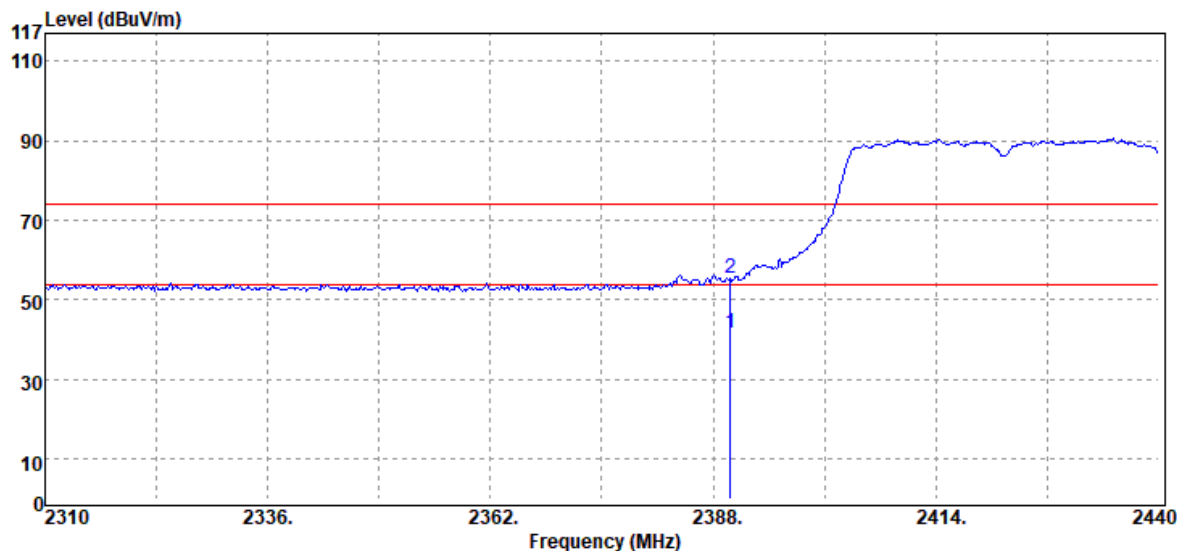
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2422 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	41.66	0.24	41.90	54.00	-12.10
2390.00	Peak	55.05	0.24	55.29	74.00	-18.71

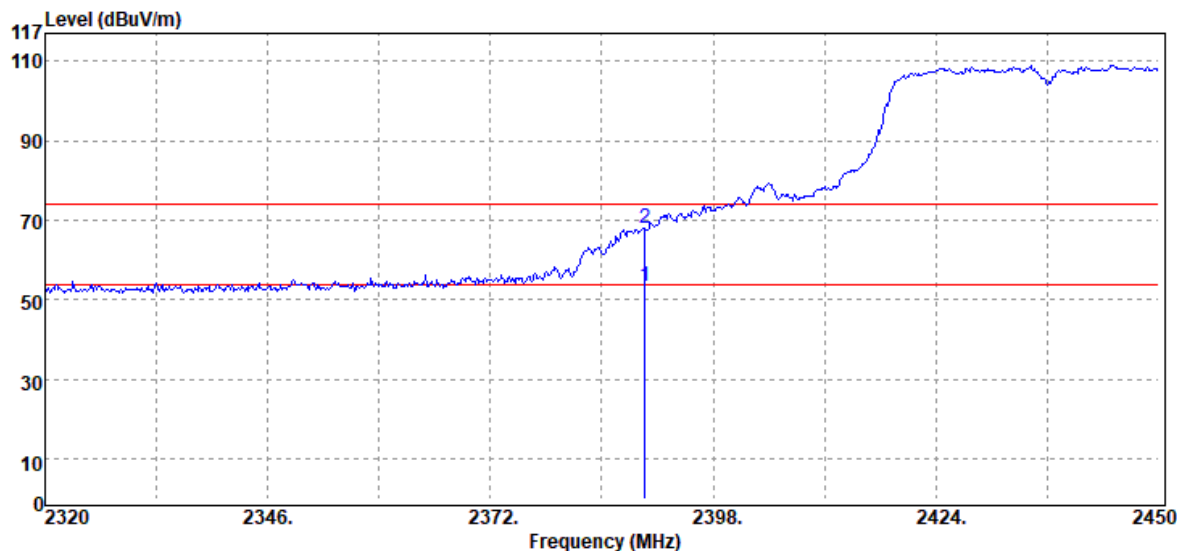
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :VERTICAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	53.32	0.24	53.56	54.00	-0.44
2390.00	Peak	67.92	0.24	68.16	74.00	-5.84

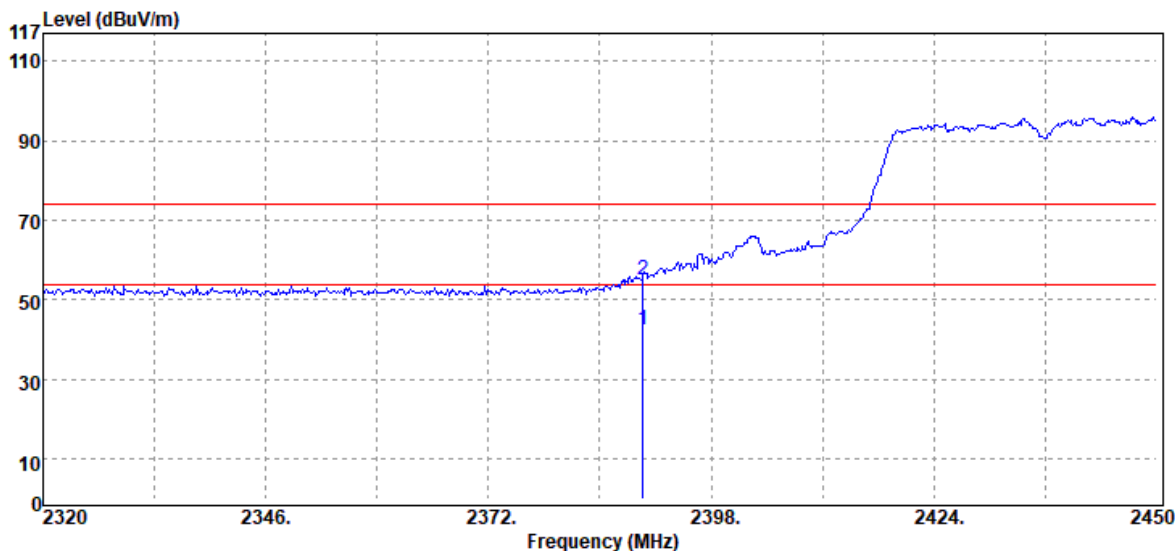
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	Average	42.29	0.24	42.53	54.00	-11.47
2390.00	Peak	54.80	0.24	55.04	74.00	-18.96

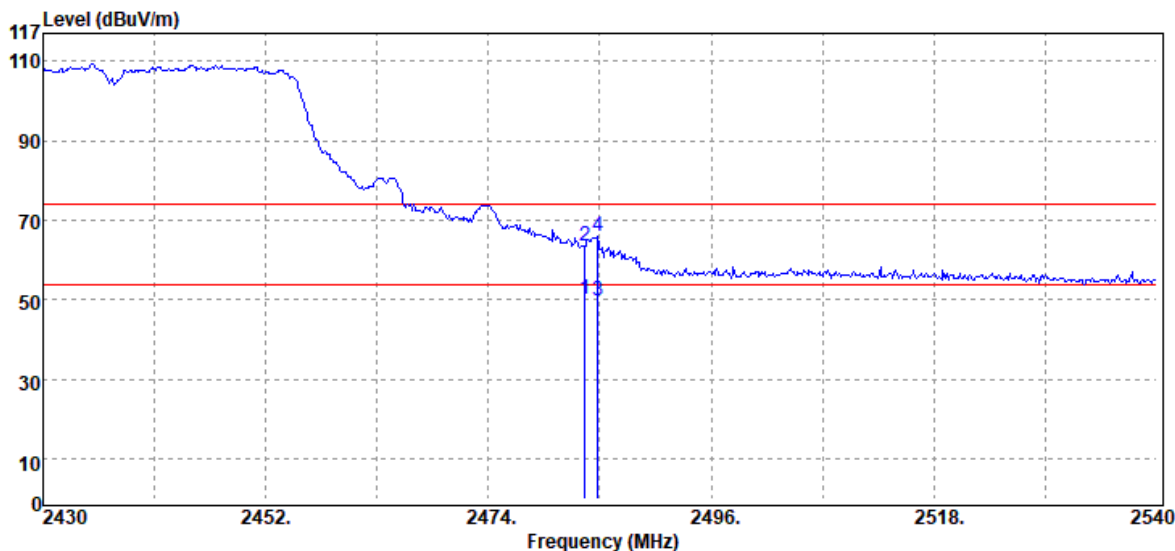
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :VERTICAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	50.22	-0.17	50.05	54.00	-3.95
2483.50	Peak	63.67	-0.17	63.50	74.00	-10.50
2484.78	Average	50.02	-0.18	49.84	54.00	-4.16
2484.78	Peak	66.18	-0.18	66.00	74.00	-8.00

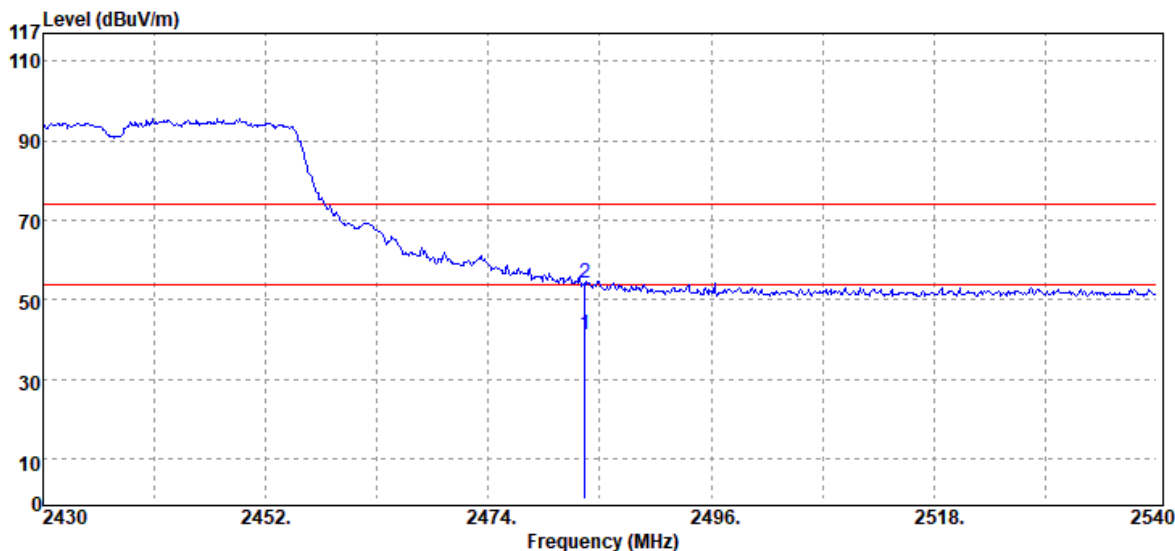
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :HORIZONTAL
Engineer :Nick



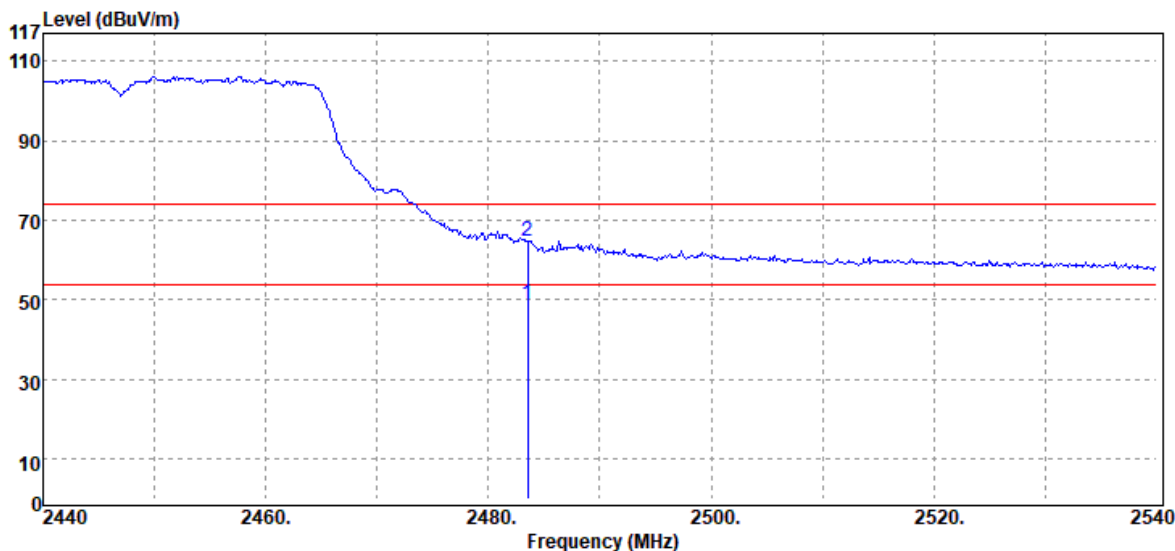
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	41.29	-0.17	41.12	54.00	-12.88
2483.50	Peak	54.26	-0.17	54.09	74.00	-19.91

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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :VERTICAL
Engineer :Nick


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	49.16	-0.17	48.99	54.00	-5.01
2483.50	Peak	64.93	-0.17	64.76	74.00	-9.24

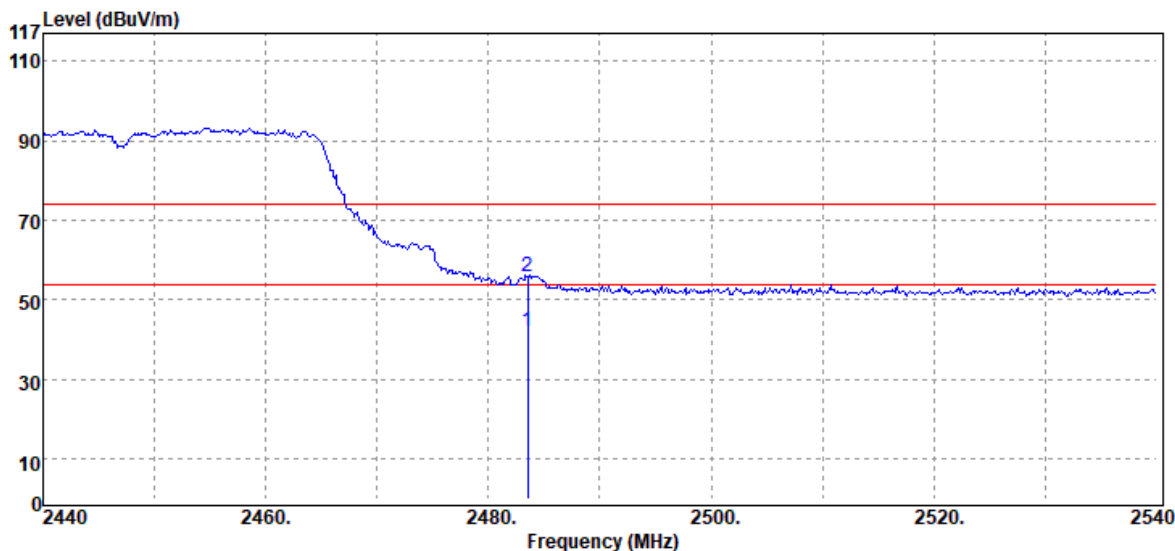
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	42.10	-0.17	41.93	54.00	-12.07
2483.50	Peak	55.84	-0.17	55.67	74.00	-18.33

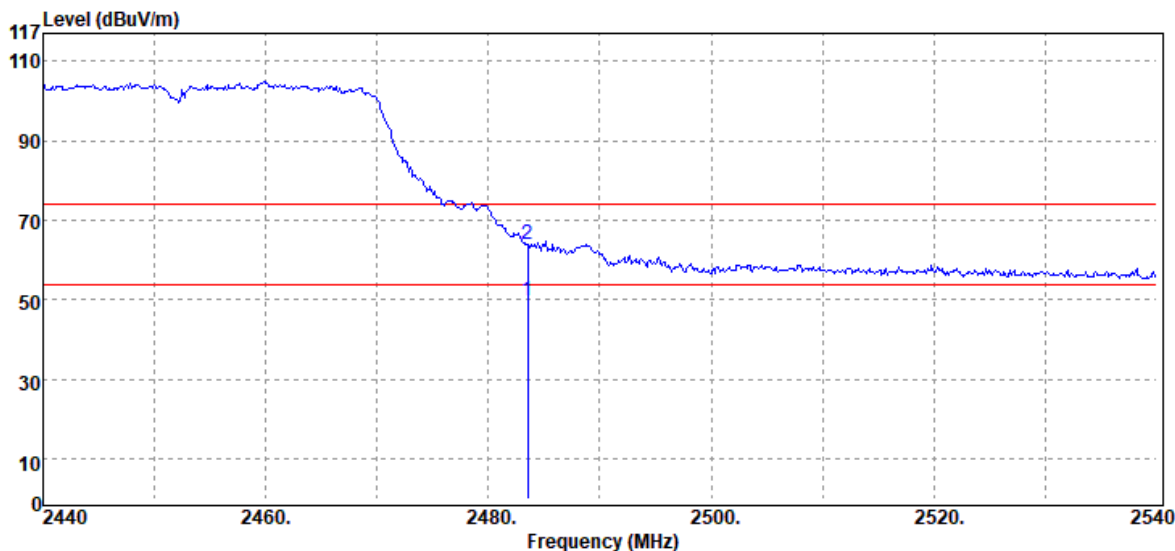
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2452 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :VERTICAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	50.13	-0.17	49.96	54.00	-4.04
2483.50	Peak	64.21	-0.17	64.04	74.00	-9.96

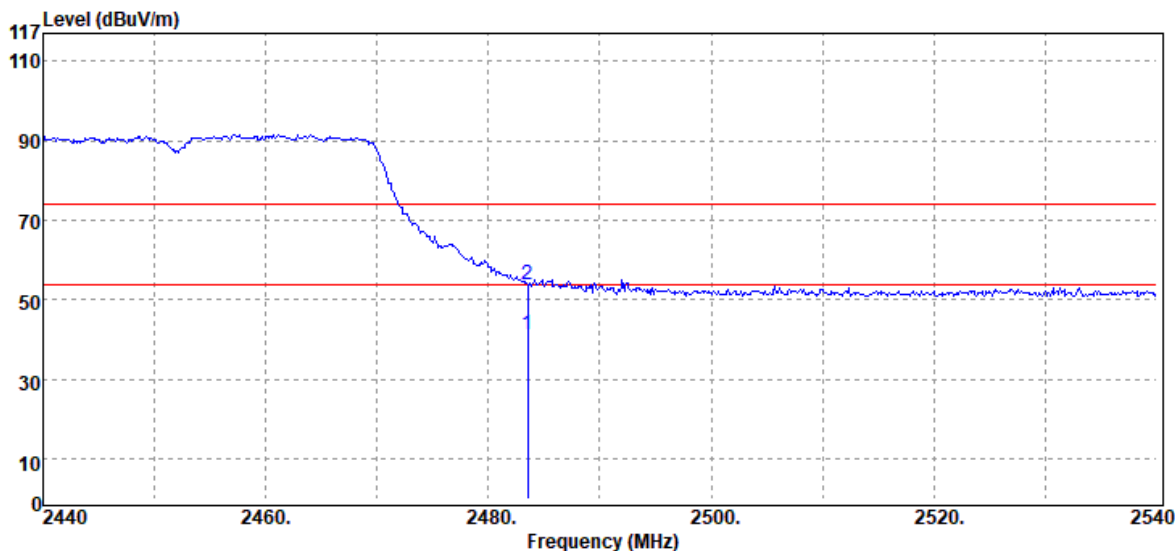
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2452 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/46
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	41.57	-0.17	41.40	54.00	-12.60
2483.50	Peak	53.91	-0.17	53.74	74.00	-20.26

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

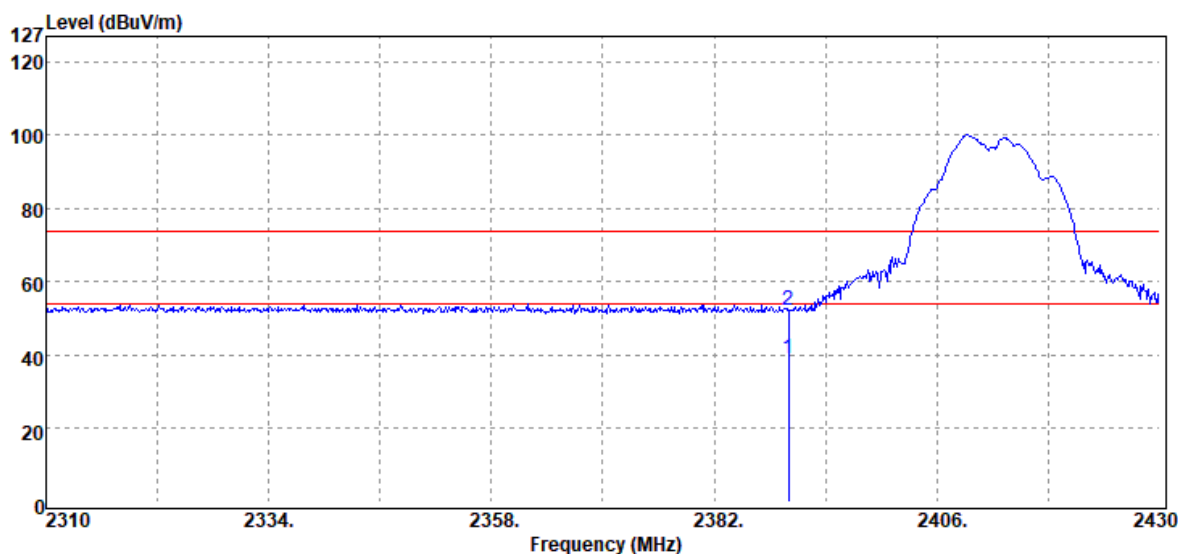
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PCB Antenna

Report Number :ER/2020/10095
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBUV/m	dBUV/m	dB
2390.00	Average	38.98	0.24	39.22	54.00	-14.78
2390.00	Peak	52.06	0.24	52.30	74.00	-21.70

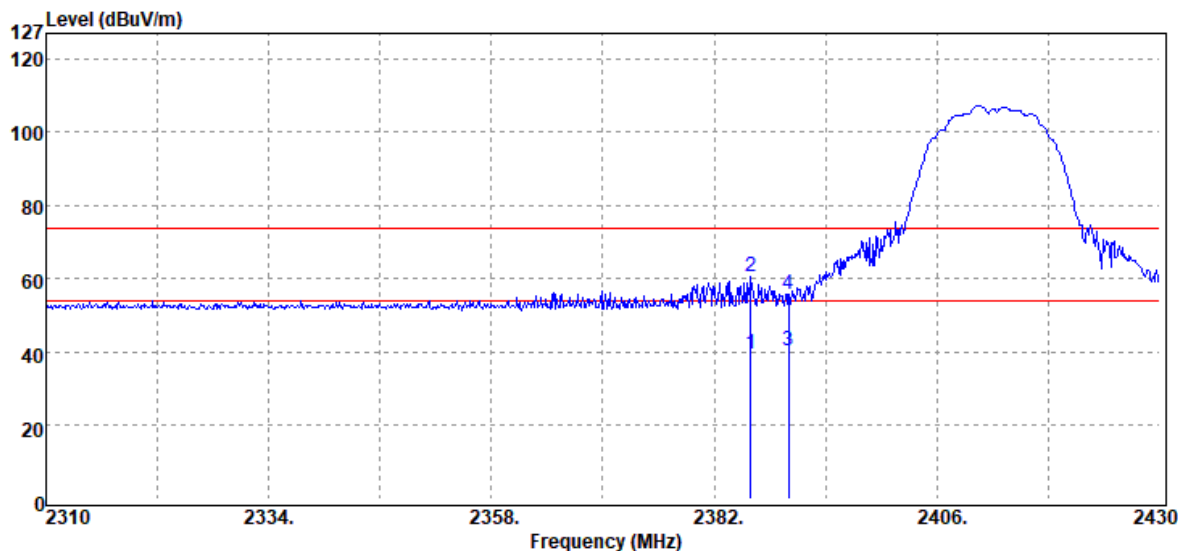
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Report Number :ER/2020/10095
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2385.96	Average	39.42	0.26	39.68	54.00	-14.32
2385.96	Peak	60.47	0.26	60.73	74.00	-13.27
2390.00	Average	40.05	0.24	40.29	54.00	-13.71
2390.00	Peak	55.52	0.24	55.76	74.00	-18.24

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SGS Taiwan Ltd. No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

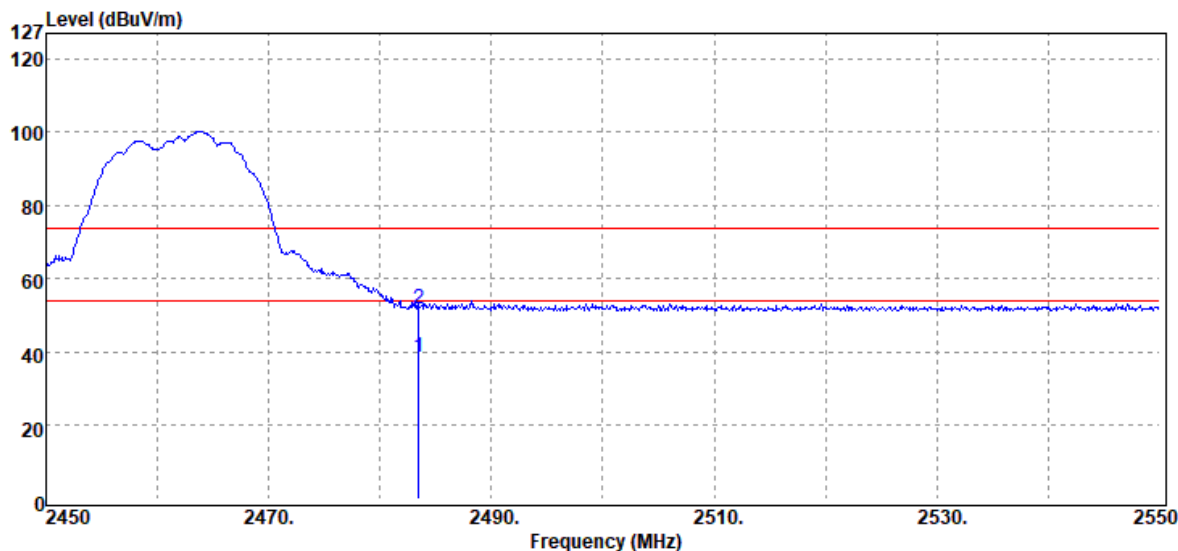
台灣檢驗科技股份有限公司 t (886-2) 2299-3279

f (886-2) 2298-0488

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Member of SGS Group

Report Number :ER/2020/10095
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :VERTICAL
Engineer :Kane


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	38.95	-0.17	38.78	54.00	-15.22
2483.50	Peak	52.22	-0.17	52.05	74.00	-21.95

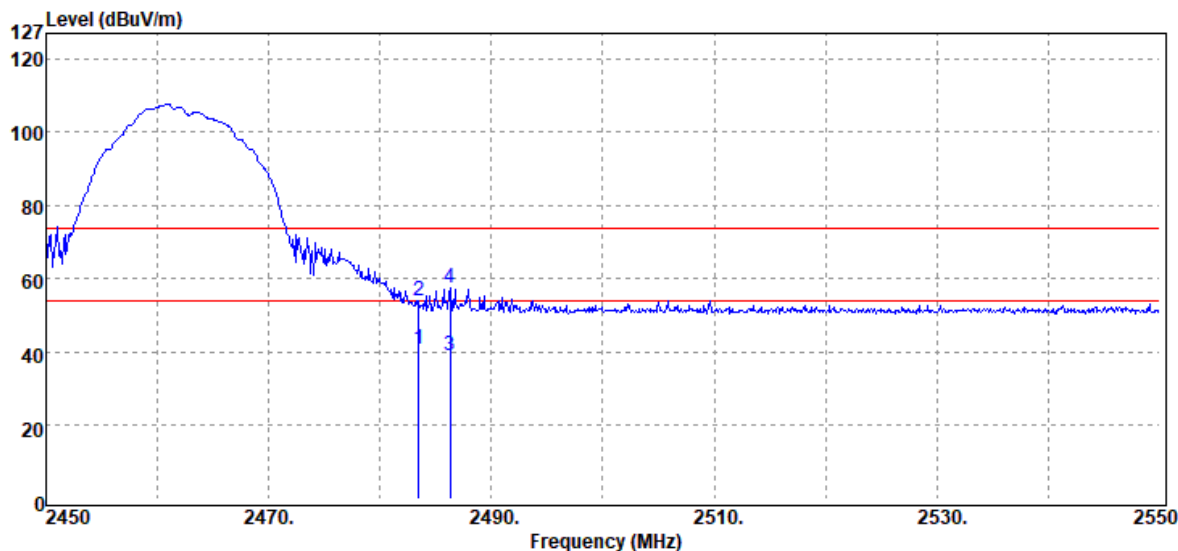
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Report Number :ER/2020/10095
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	41.00	-0.17	40.83	54.00	-13.17
2483.50	Peak	54.18	-0.17	54.01	74.00	-19.99
2486.30	Average	39.48	-0.19	39.29	54.00	-14.71
2486.30	Peak	57.86	-0.19	57.67	74.00	-16.33

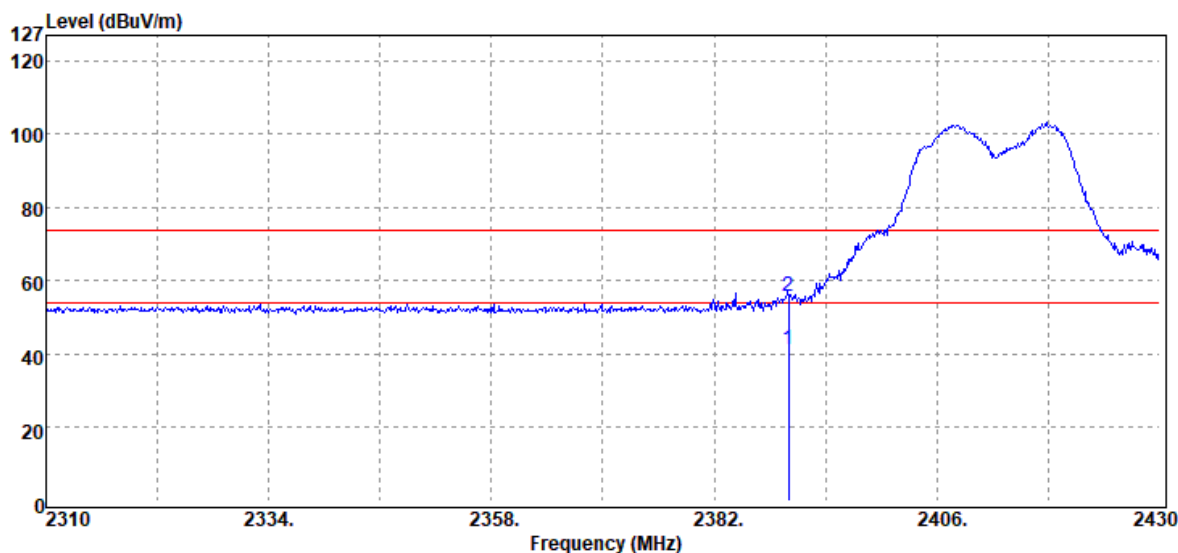
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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :VERTICAL
Engineer :Kane



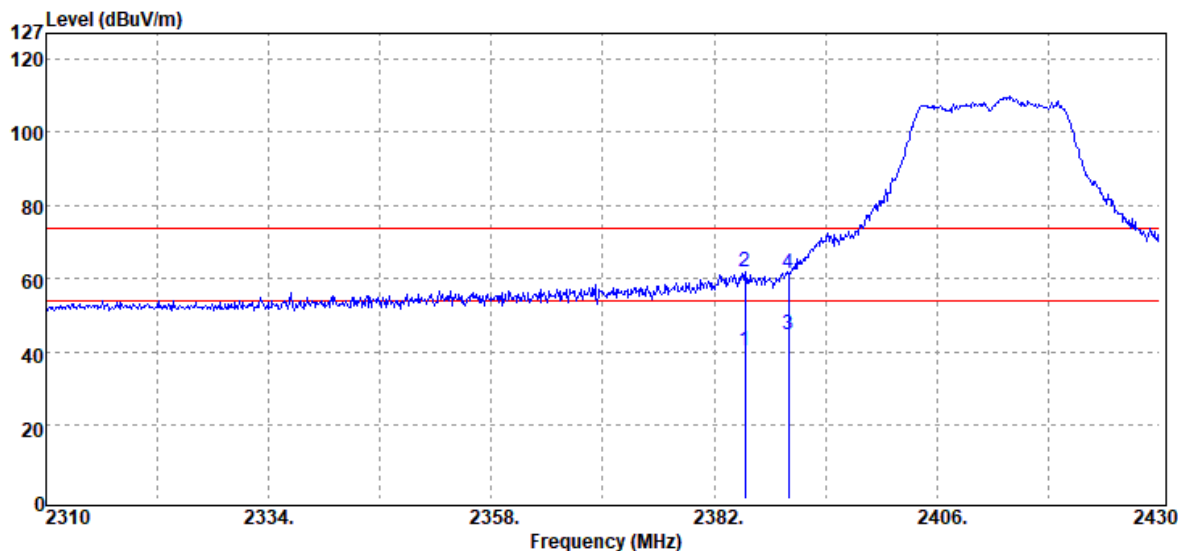
Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	40.94	0.24	41.18	54.00	-12.82
2390.00	Peak	55.60	0.24	55.84	74.00	-18.16

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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :HORIZONTAL
Engineer :Kane


Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2385.36	Average	40.33	0.26	40.59	54.00	-13.41
2385.36	Peak	61.69	0.26	61.95	74.00	-12.05
2390.00	Average	44.37	0.24	44.61	54.00	-9.39
2390.00	Peak	61.17	0.24	61.41	74.00	-12.59

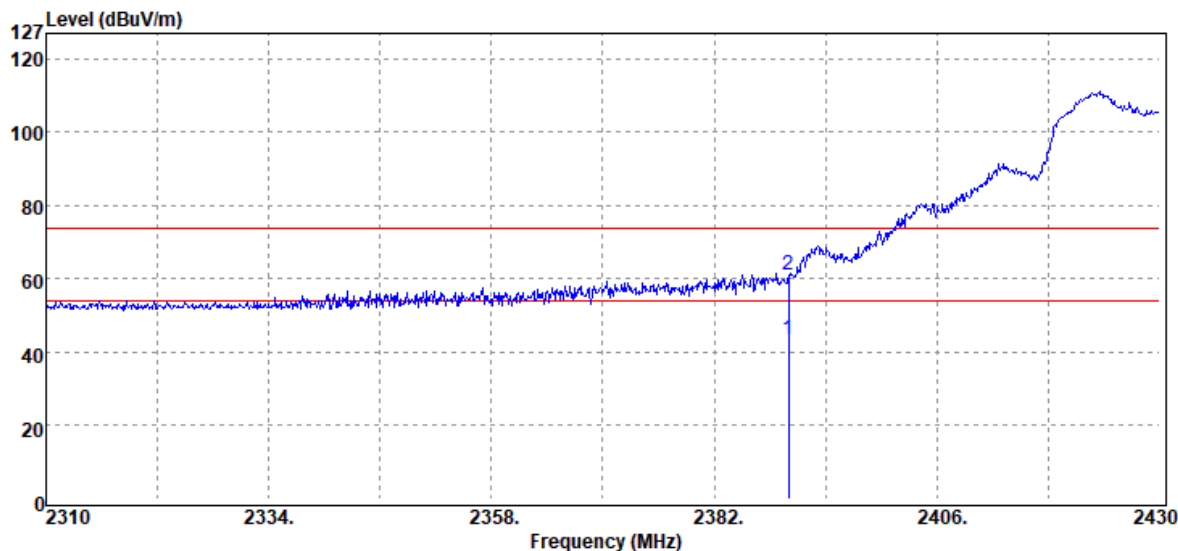
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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2427 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :VERTICAL
Engineer :Kane



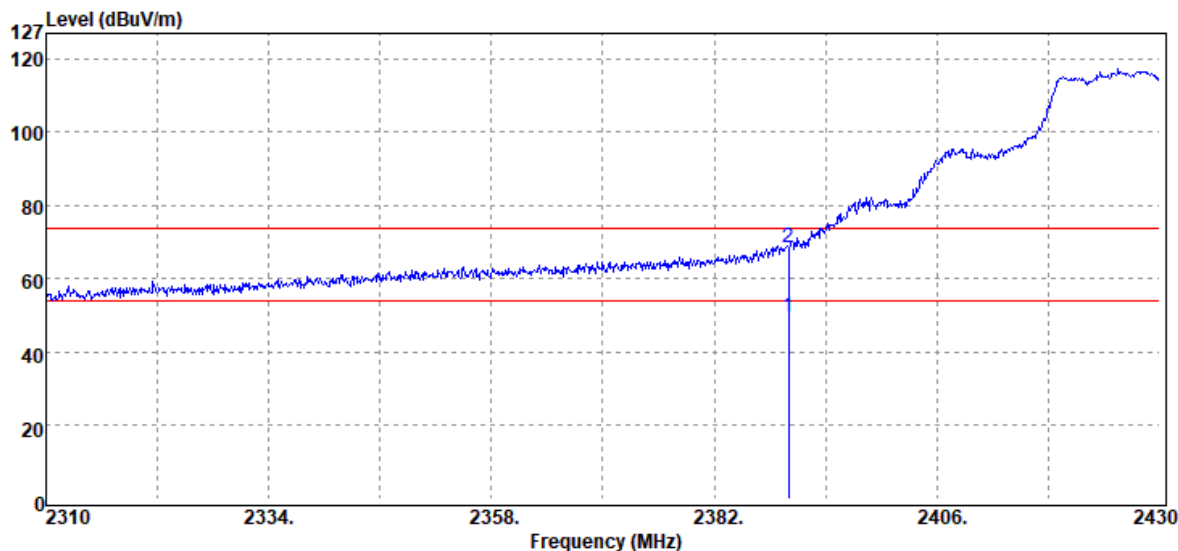
Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	43.19	0.24	43.43	54.00	-10.57
2390.00	Peak	61.02	0.24	61.26	74.00	-12.74

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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2427 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :HORIZONTAL
Engineer :Kane


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	Average	49.45	0.24	49.69	54.00	-4.31
2390.00	Peak	68.16	0.24	68.40	74.00	-5.60

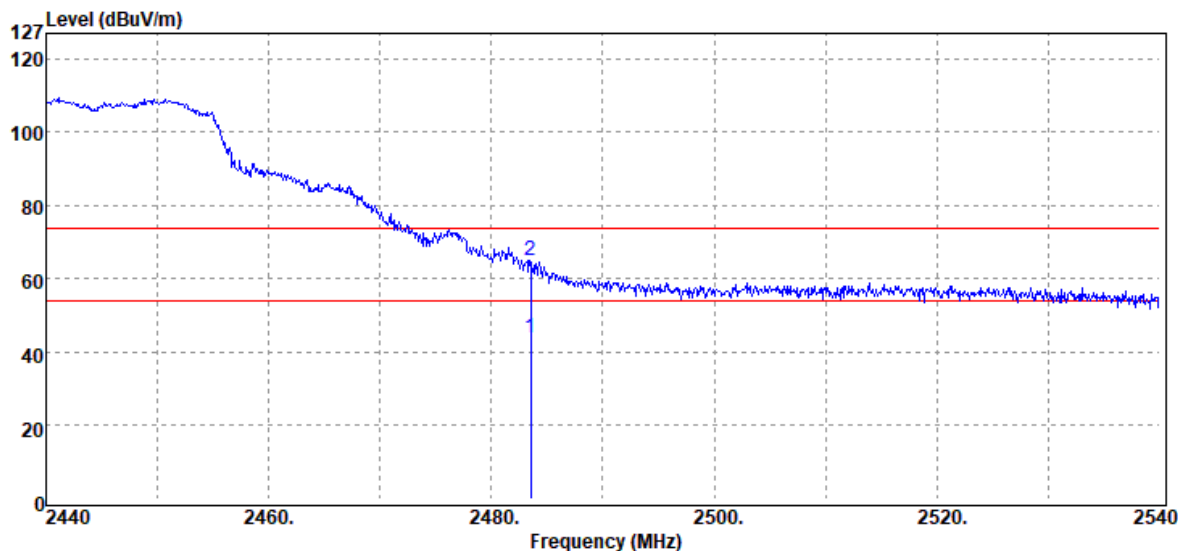
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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :VERTICAL
Engineer :Kane



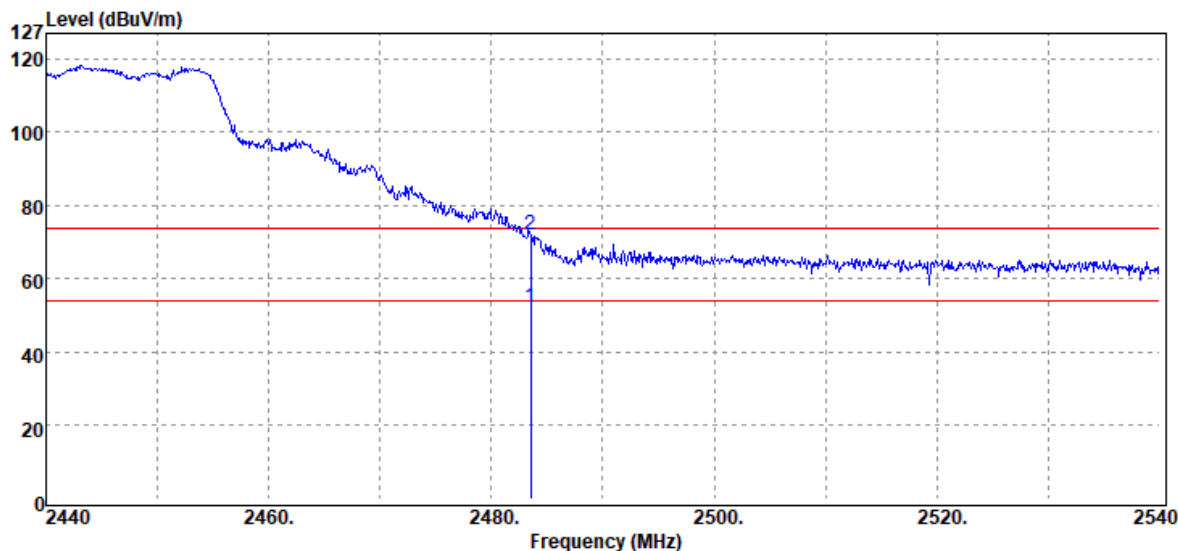
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	44.12	-0.17	43.95	54.00	-10.05
2483.50	Peak	65.40	-0.17	65.23	74.00	-8.77

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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :HORIZONTAL
Engineer :Kane


Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	52.54	-0.17	52.37	54.00	-1.63
2483.50	Peak	72.20	-0.17	72.03	74.00	-1.97

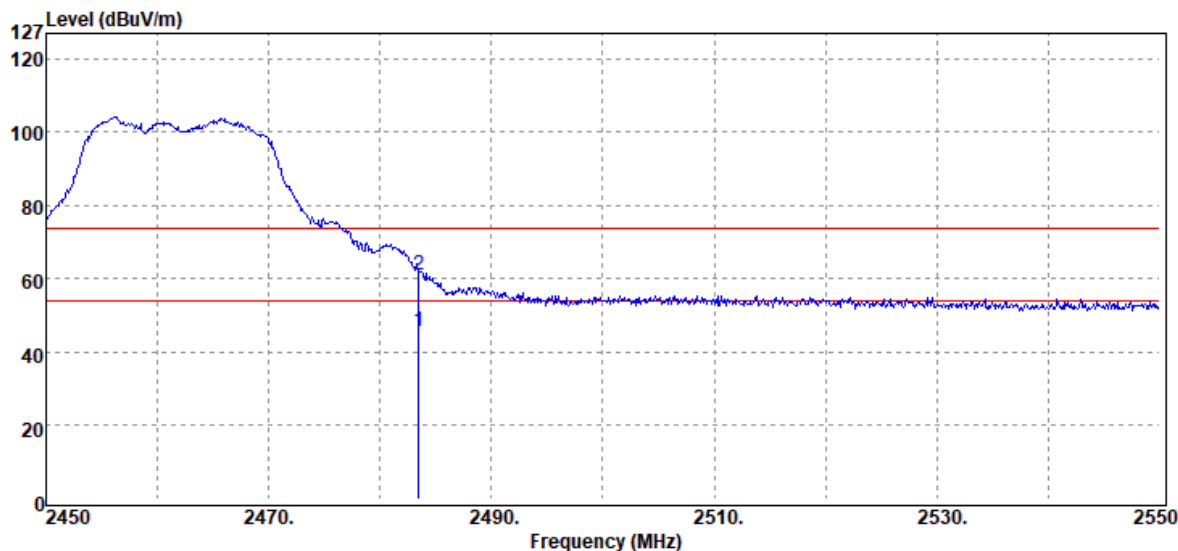
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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	45.76	-0.17	45.59	54.00	-8.41
2483.50	Peak	61.31	-0.17	61.14	74.00	-12.86

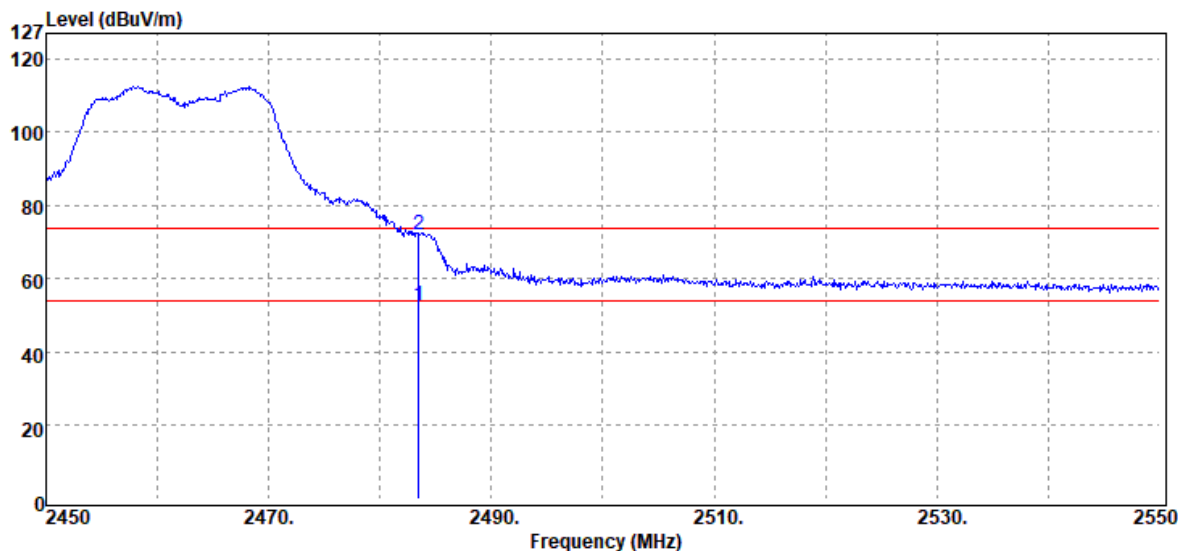
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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	53.10	-0.17	52.93	54.00	-1.07
2483.50	Peak	72.29	-0.17	72.12	74.00	-1.88

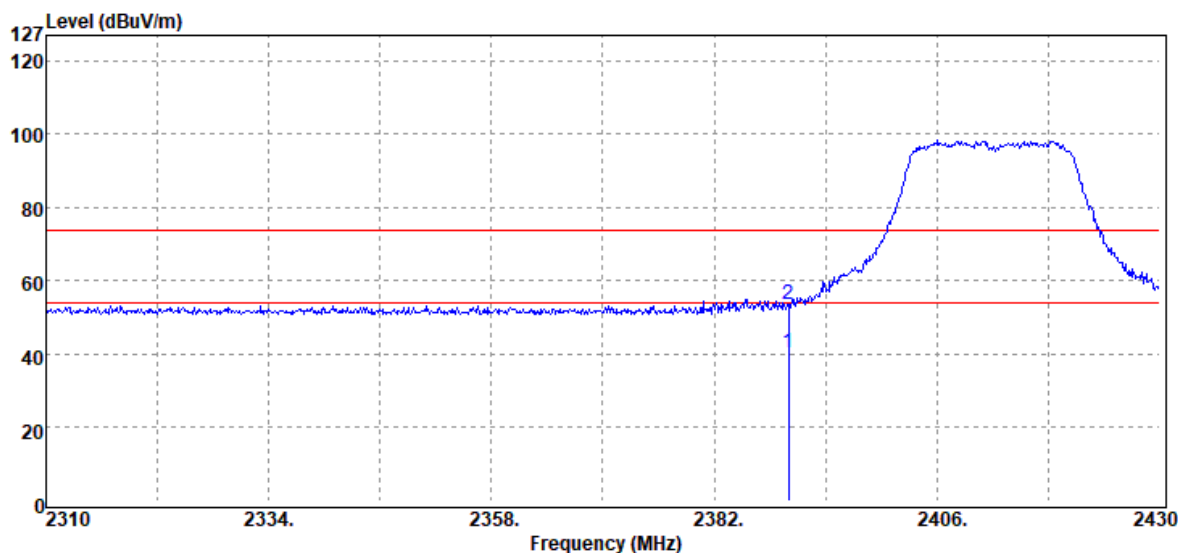
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	40.30	0.24	40.54	54.00	-13.46
2390.00	Peak	53.26	0.24	53.50	74.00	-20.50

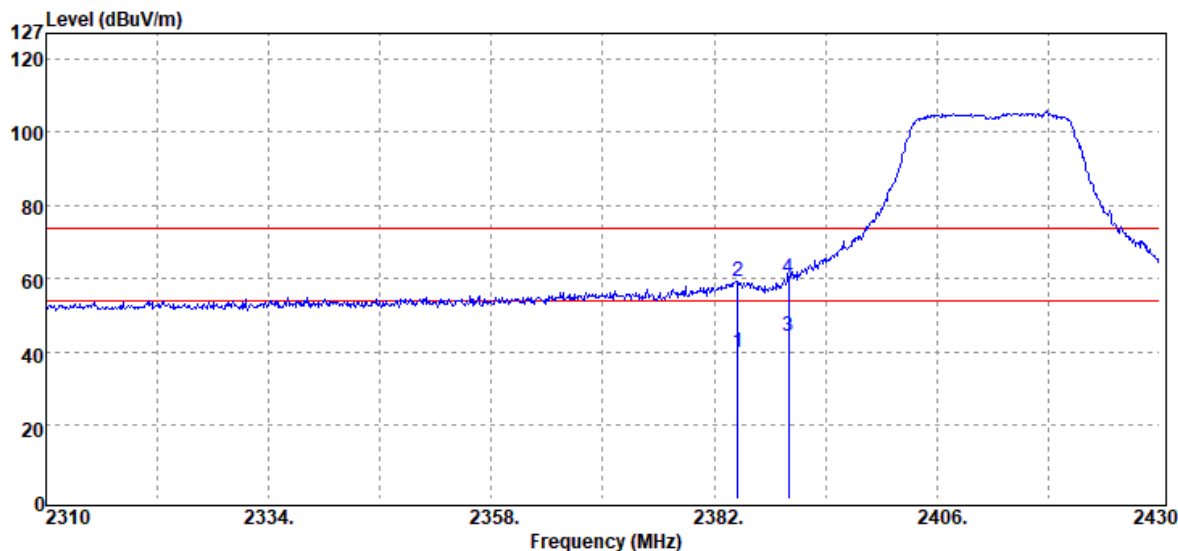
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2384.52	Average	39.76	0.26	40.02	54.00	-13.98
2384.52	Peak	59.00	0.26	59.26	74.00	-14.74
2390.00	Average	43.97	0.24	44.21	54.00	-9.79
2390.00	Peak	59.84	0.24	60.08	74.00	-13.92

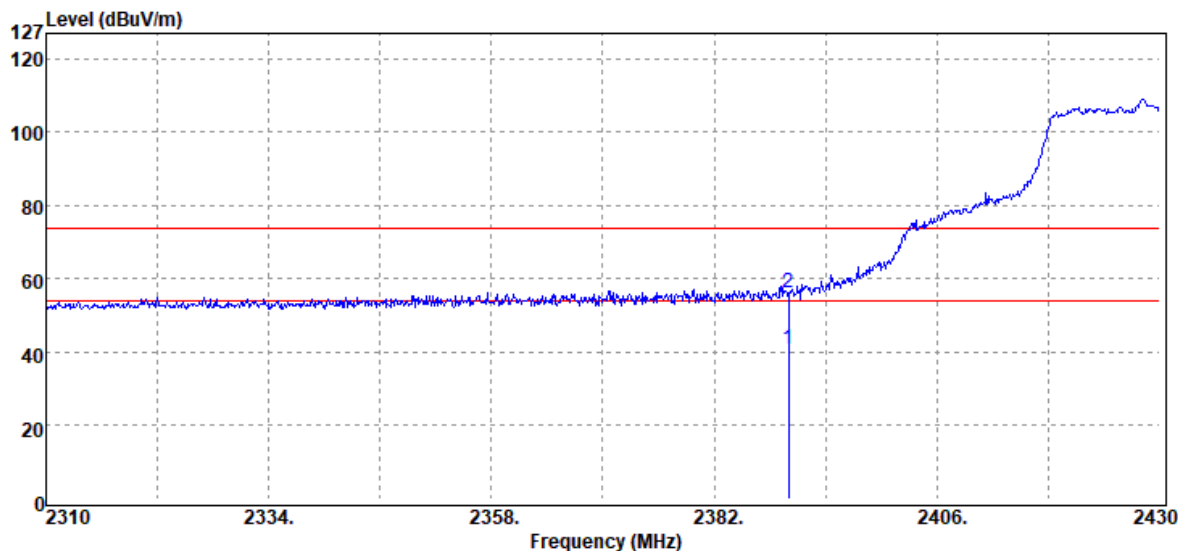
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2427 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	40.81	0.24	41.05	54.00	-12.95
2390.00	Peak	55.96	0.24	56.20	74.00	-17.80

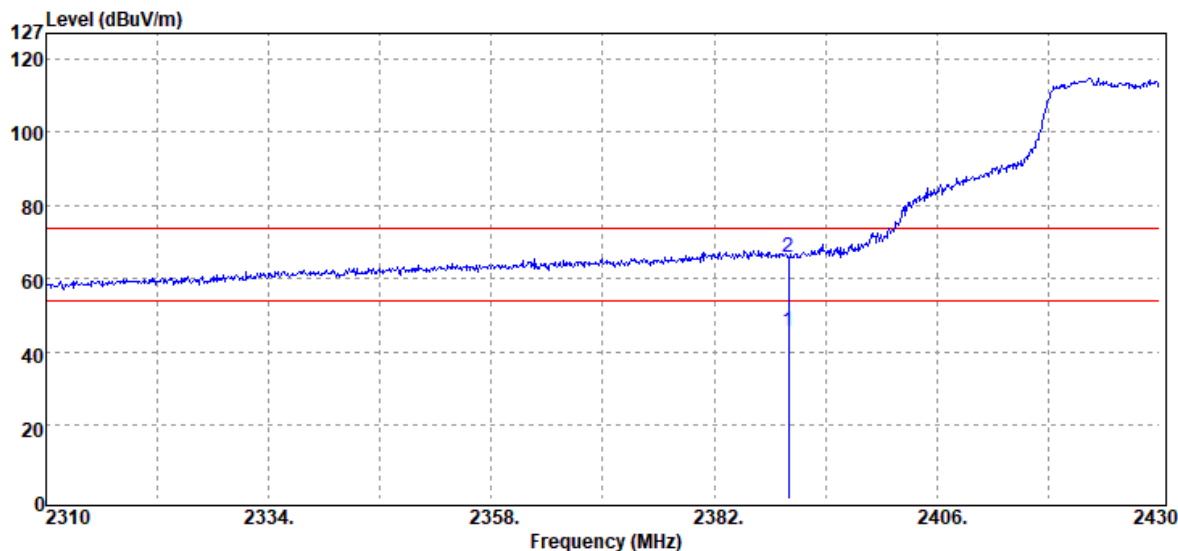
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2427 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	45.55	0.24	45.79	54.00	-8.21
2390.00	Peak	65.66	0.24	65.90	74.00	-8.10

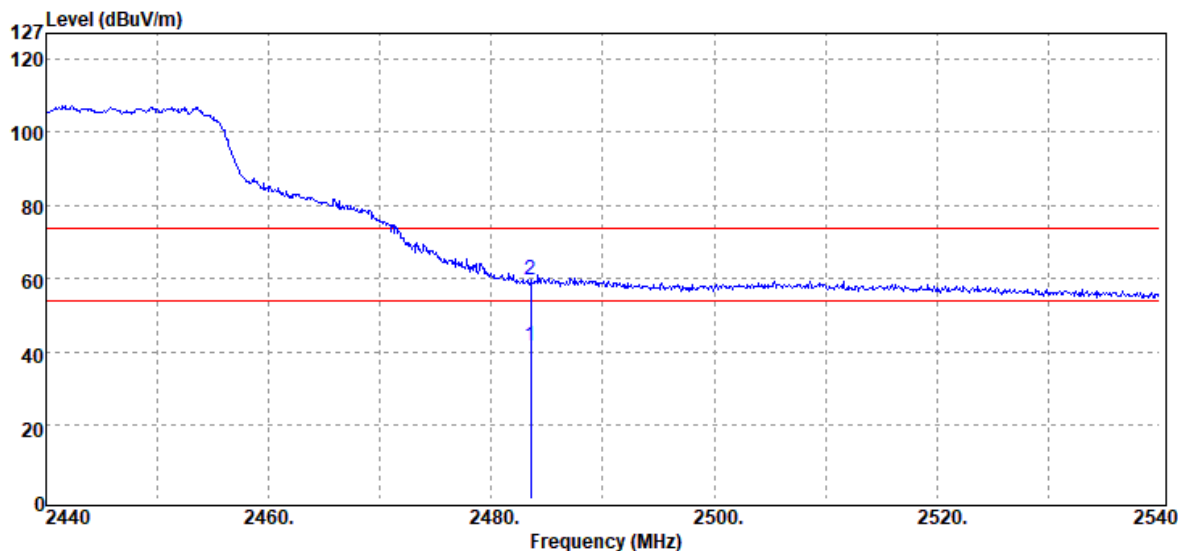
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	42.10	-0.17	41.93	54.00	-12.07
2483.50	Peak	59.78	-0.17	59.61	74.00	-14.39

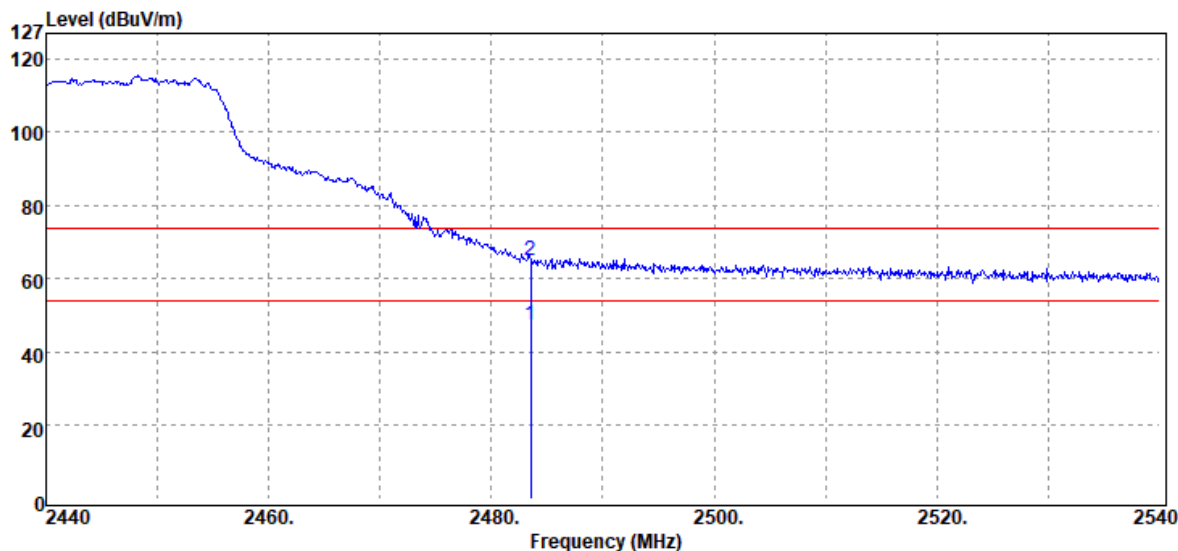
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	47.57	-0.17	47.40	54.00	-6.60
2483.50	Peak	65.21	-0.17	65.04	74.00	-8.96

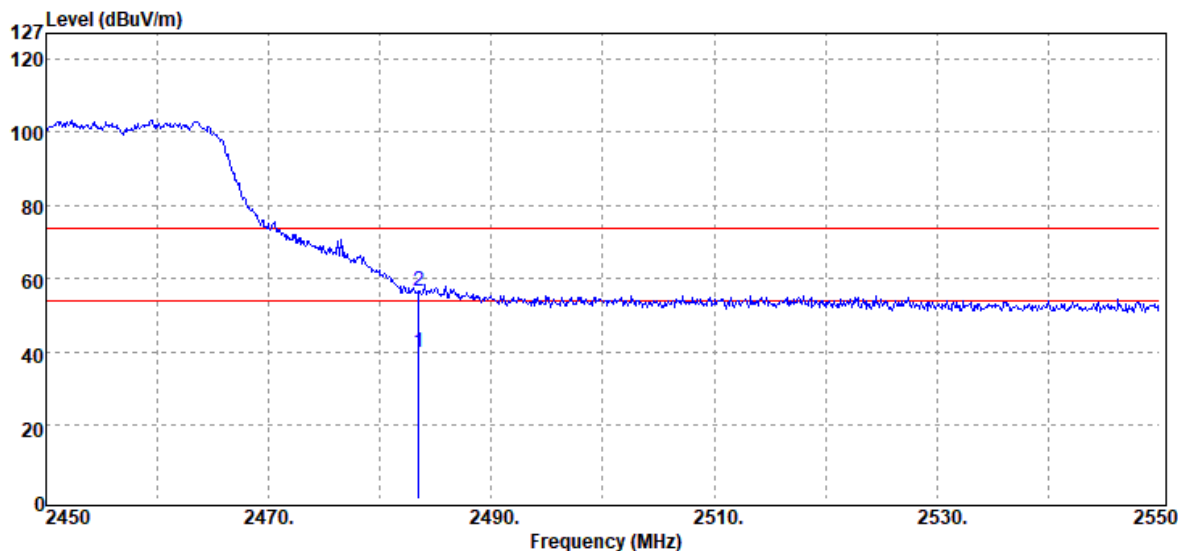
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2457 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	40.18	-0.17	40.01	54.00	-13.99
2483.50	Peak	56.89	-0.17	56.72	74.00	-17.28

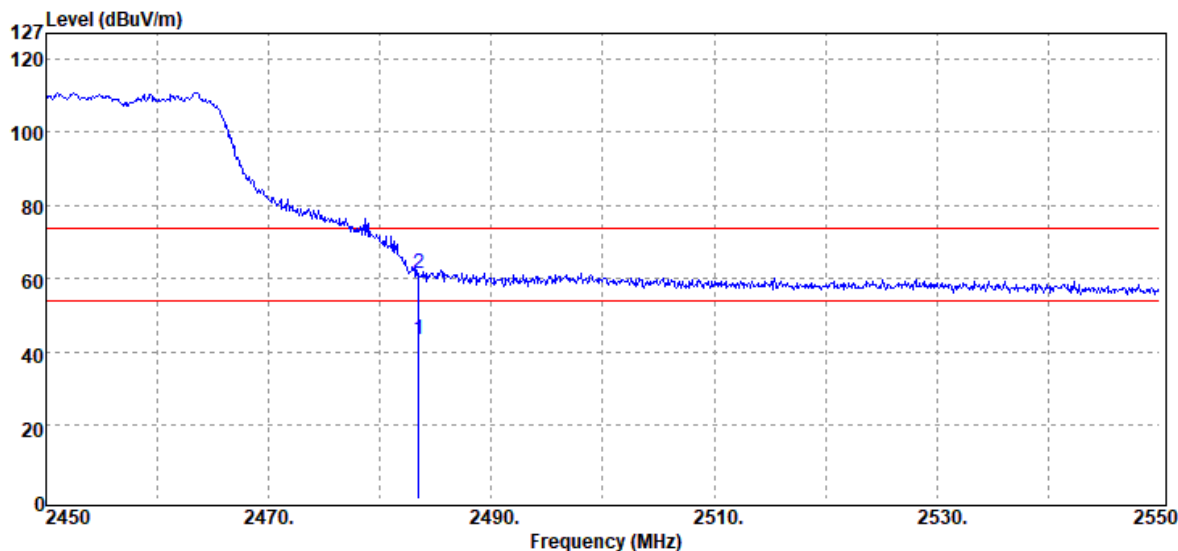
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2457 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	43.48	-0.17	43.31	54.00	-10.69
2483.50	Peak	61.64	-0.17	61.47	74.00	-12.53

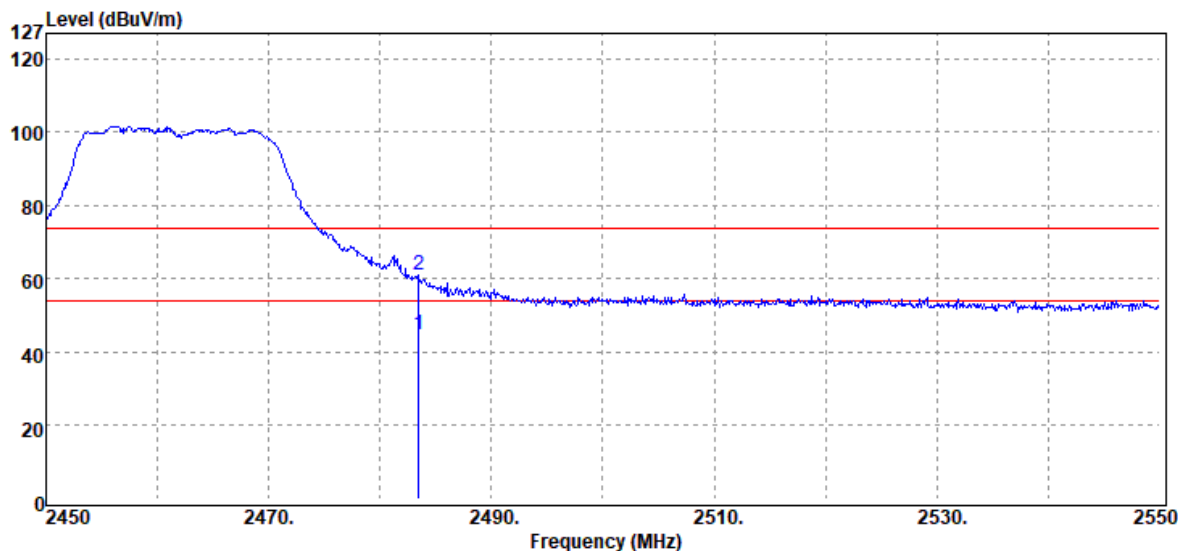
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :VERTICAL
Engineer :Kane



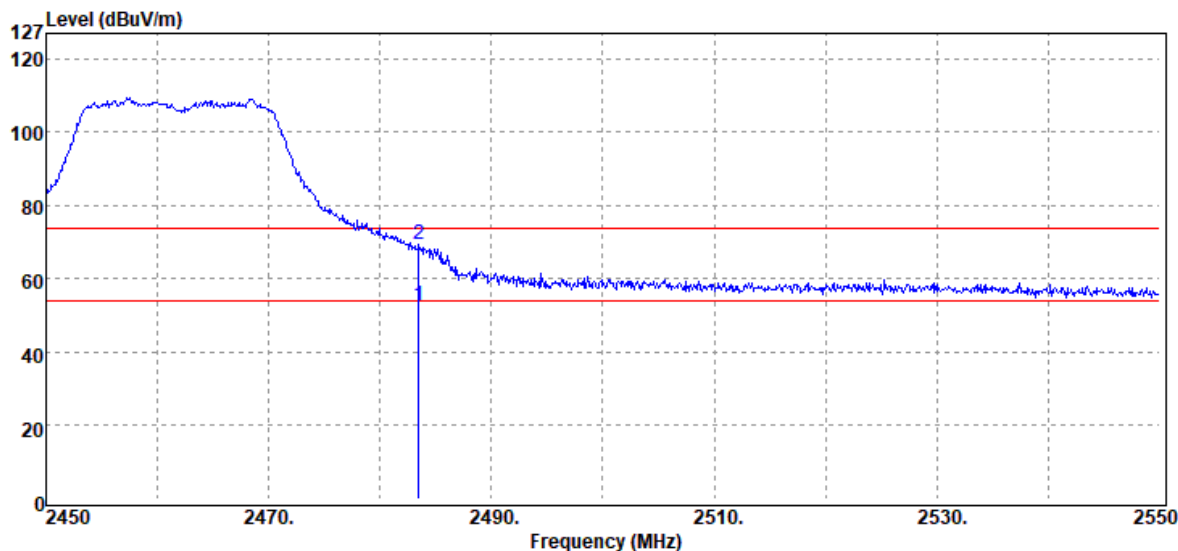
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	45.15	-0.17	44.98	54.00	-9.02
2483.50	Peak	61.21	-0.17	61.04	74.00	-12.96

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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :HORIZONTAL
Engineer :Kane


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	53.10	-0.17	52.93	54.00	-1.07
2483.50	Peak	69.53	-0.17	69.36	74.00	-4.64

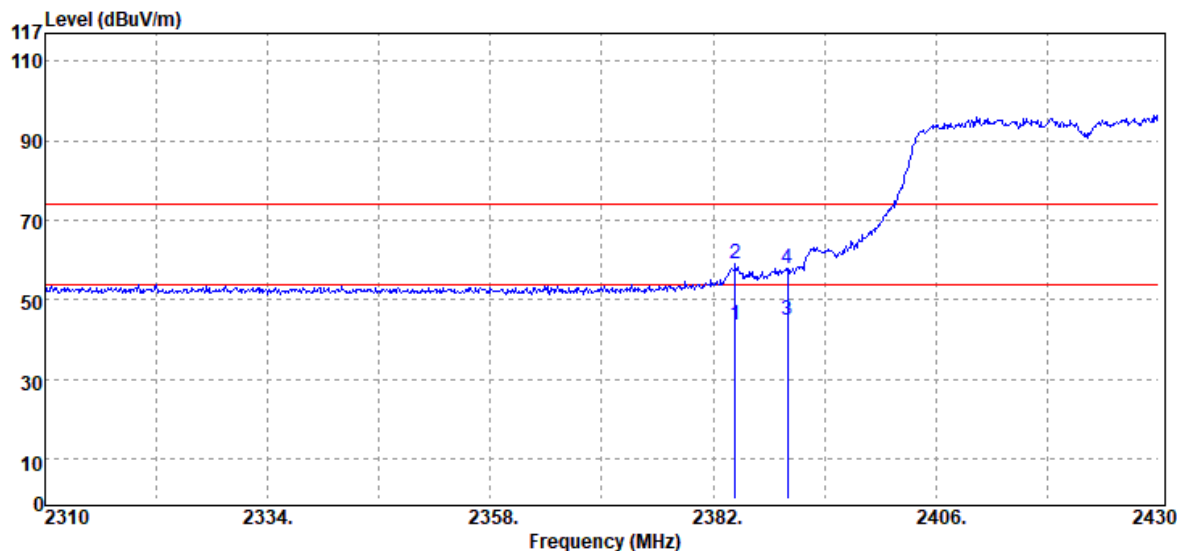
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2422 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2384.40	Average	43.64	0.26	43.90	54.00	-10.10
2384.40	Peak	58.87	0.26	59.13	74.00	-14.87
2390.00	Average	44.54	0.24	44.78	54.00	-9.22
2390.00	Peak	57.82	0.24	58.06	74.00	-15.94

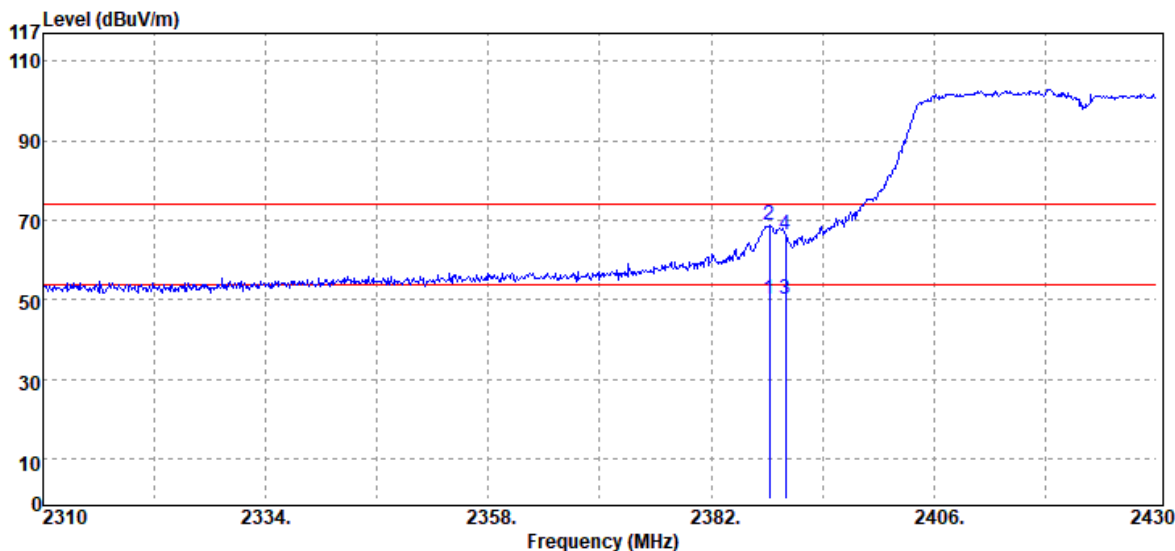
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2422 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2388.24	Average	49.85	0.25	50.10	54.00	-3.90
2388.24	Peak	68.56	0.25	68.81	74.00	-5.19
2390.00	Average	50.02	0.24	50.26	54.00	-3.74
2390.00	Peak	65.98	0.24	66.22	74.00	-7.78

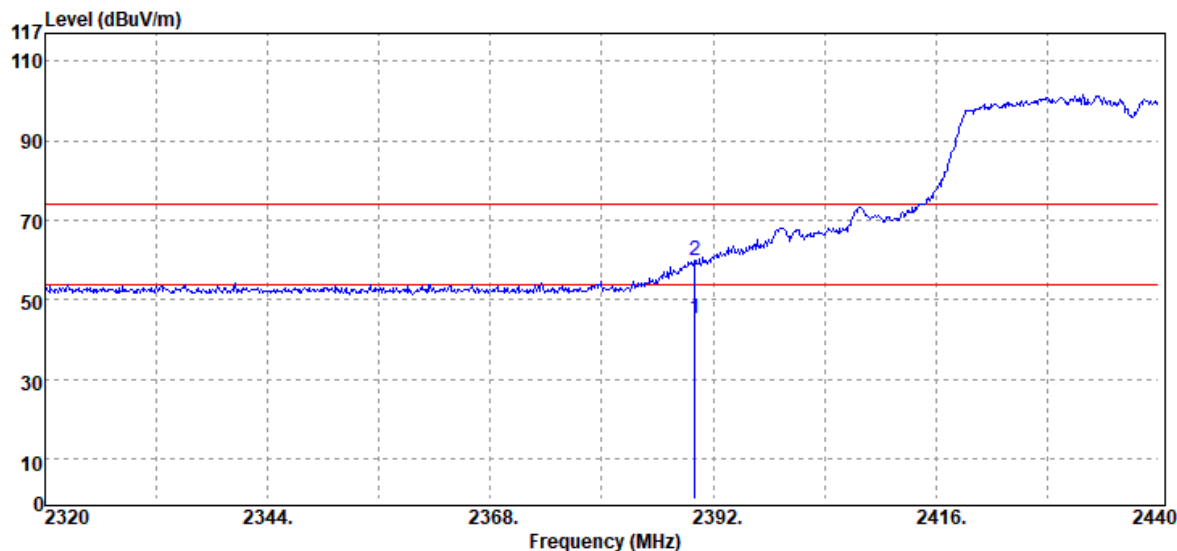
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	45.26	0.24	45.50	54.00	-8.50
2390.00	Peak	59.61	0.24	59.85	74.00	-14.15

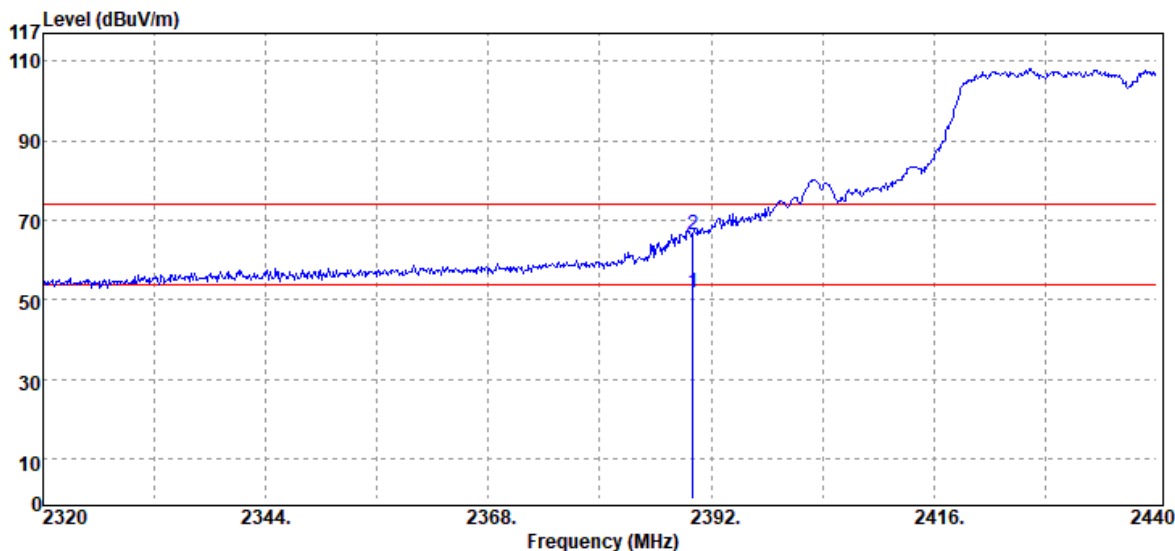
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Bandedge CH Low
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	51.70	0.24	51.94	54.00	-2.06
2390.00	Peak	66.21	0.24	66.45	74.00	-7.55

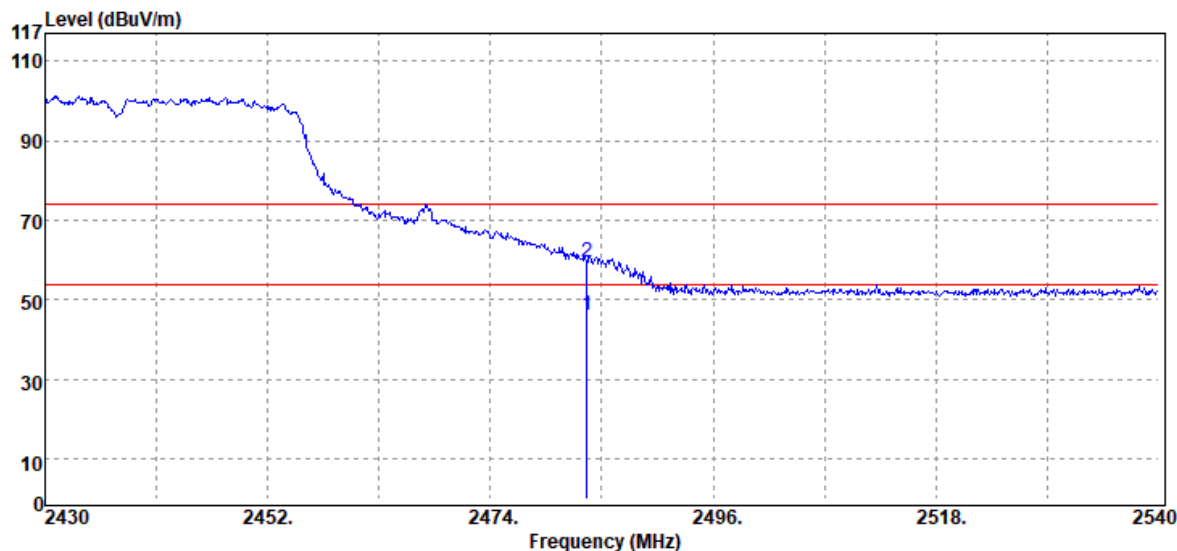
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	46.50	-0.17	46.33	54.00	-7.67
2483.50	Peak	59.56	-0.17	59.39	74.00	-14.61

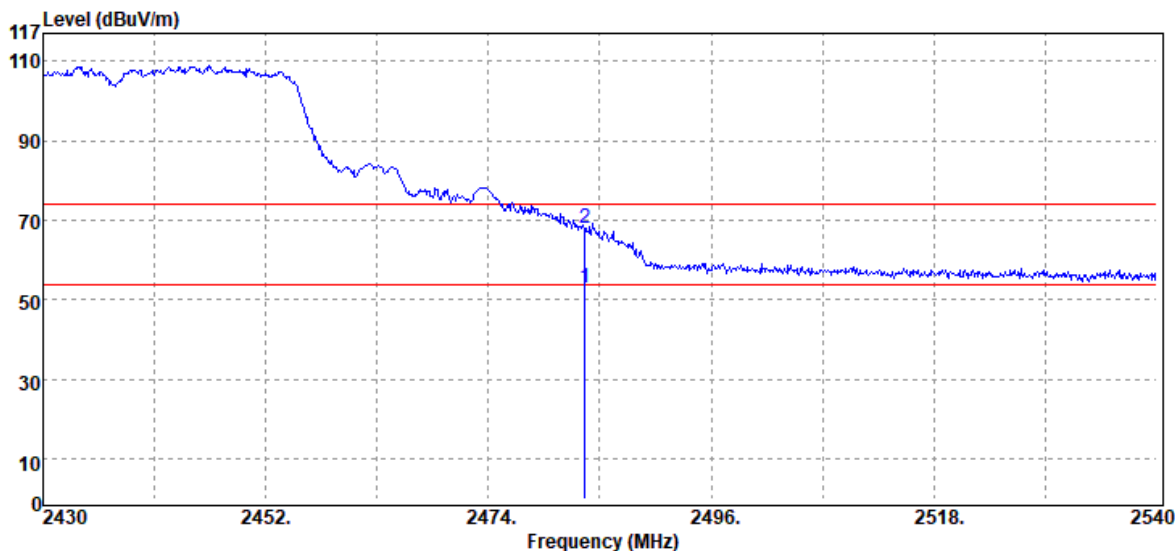
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	53.13	-0.17	52.96	54.00	-1.04
2483.50	Peak	68.33	-0.17	68.16	74.00	-5.84

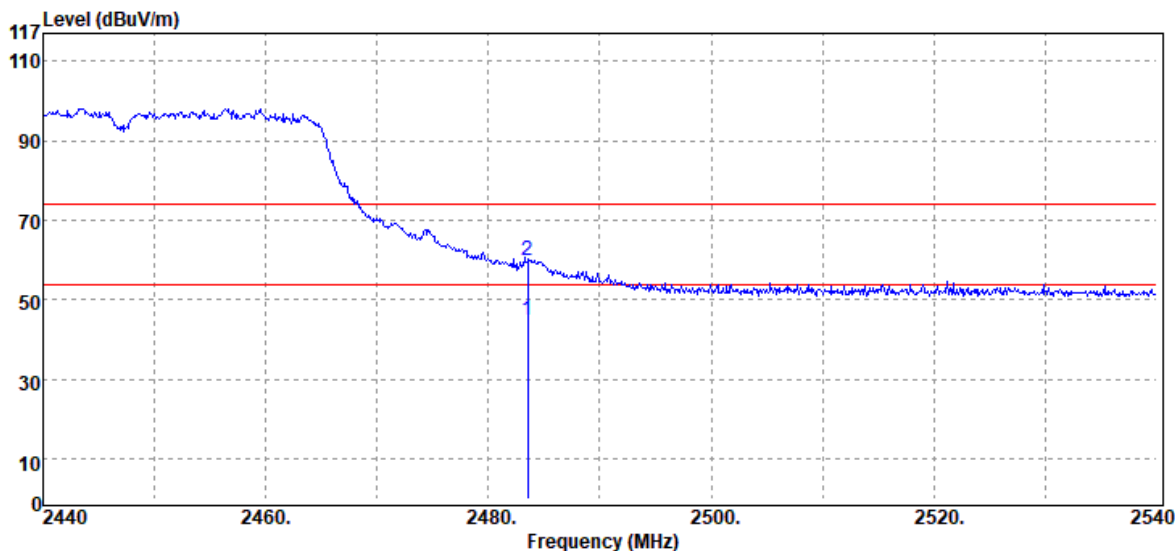
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	Average	45.25	-0.17	45.08	54.00	-8.92
2483.50	Peak	60.09	-0.17	59.92	74.00	-14.08

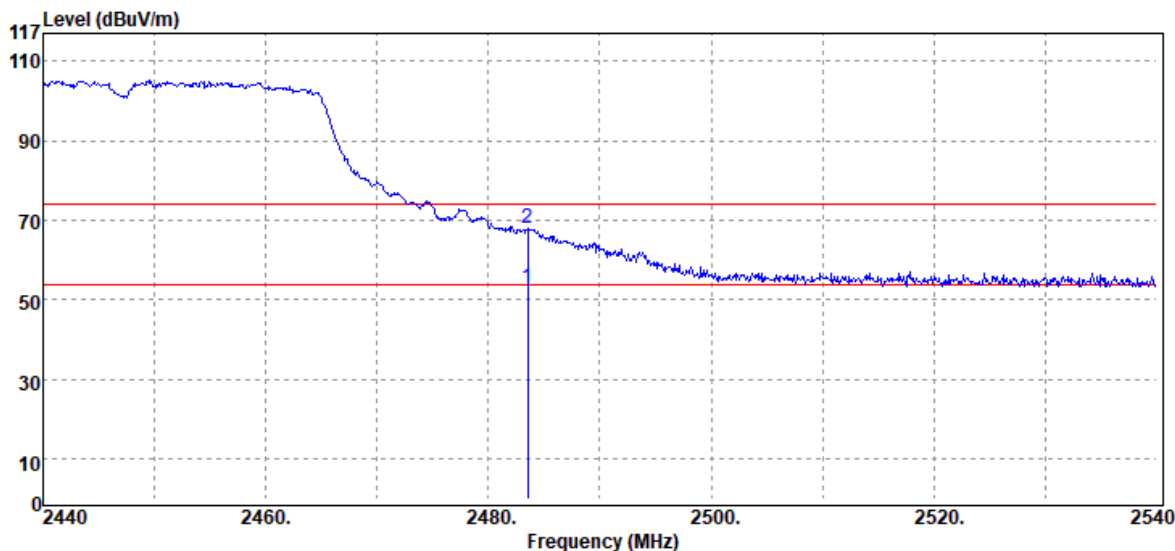
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	53.15	-0.17	52.98	54.00	-1.02
2483.50	Peak	68.03	-0.17	67.86	74.00	-6.14

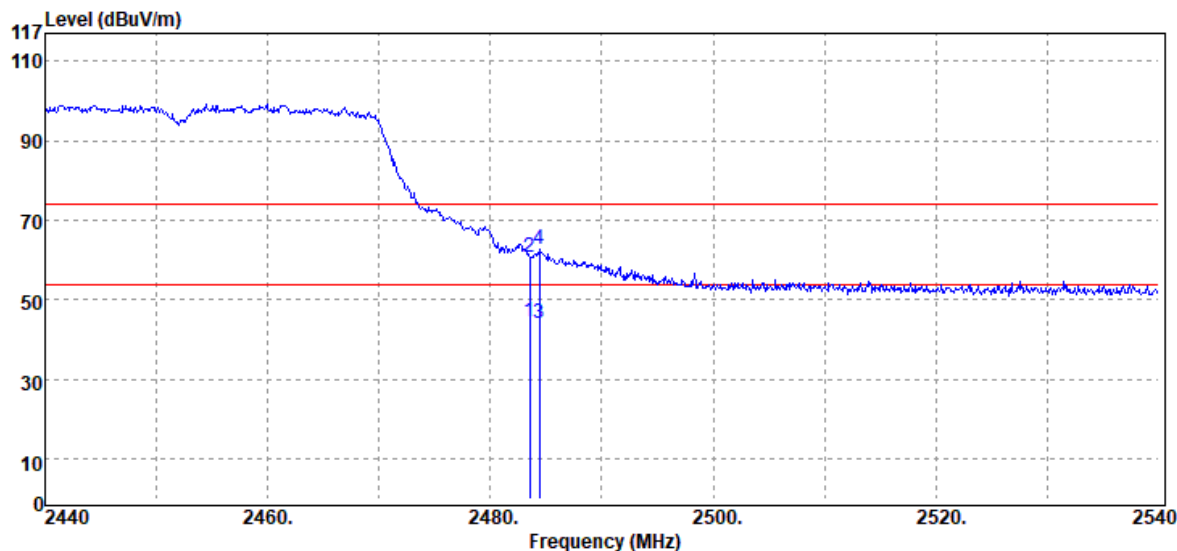
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2452 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	44.74	-0.17	44.57	54.00	-9.43
2483.50	Peak	60.74	-0.17	60.57	74.00	-13.43
2484.40	Average	44.40	-0.18	44.22	54.00	-9.78
2484.40	Peak	62.83	-0.18	62.65	74.00	-11.35

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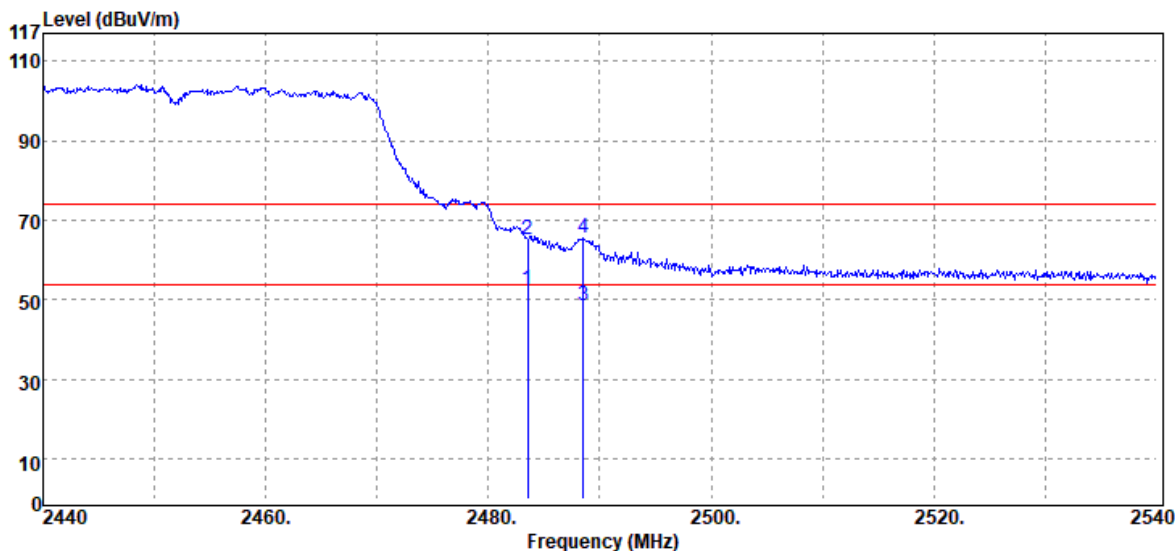
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f (886-2) 2298-0488

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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2452 MHz
Test Mode :Bandedge CH High
EUT Pol :H Plane

Test Date :2020-02-14
Temp./Humi. :22.3/64
Antenna Pol. :HORIZONTAL
Engineer :Kane


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	52.89	-0.17	52.72	54.00	-1.28
2483.50	Peak	65.55	-0.17	65.38	74.00	-8.62
2488.50	Average	48.72	-0.20	48.52	54.00	-5.48
2488.50	Peak	65.68	-0.20	65.48	74.00	-8.52

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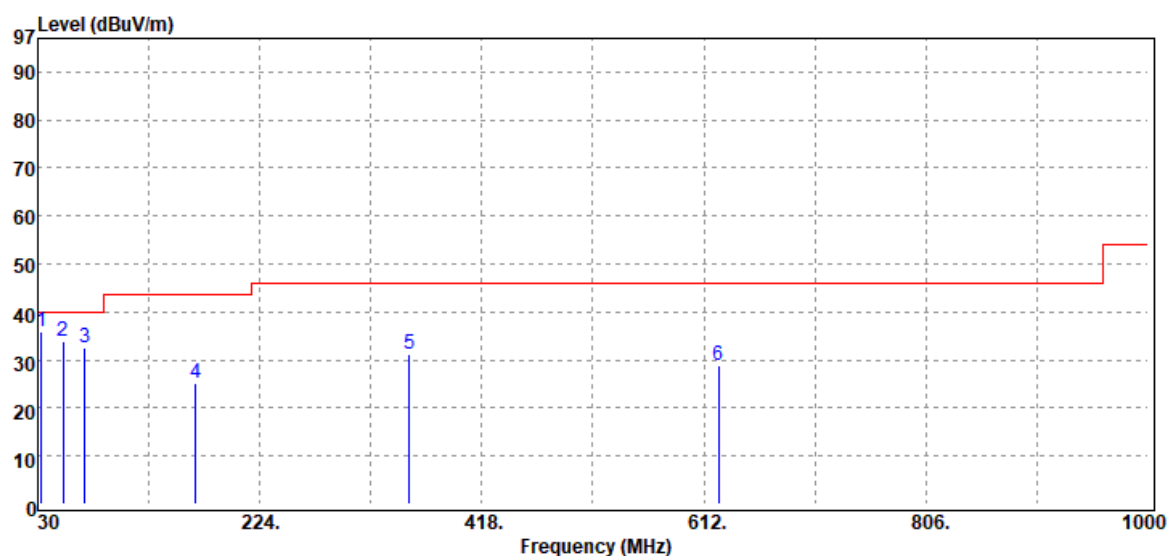
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11.7.2 Below 1GHz Worst-Case Emission:

ROD Antenna

Report Number :ER/2020/10095
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Date :2020-02-21
 Temp./Humi. :21.4/59
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
32.91	Peak	44.60	-8.59	36.01	40.00	-3.99
52.31	Peak	41.50	-7.72	33.78	40.00	-6.22
70.74	Peak	42.82	-10.21	32.61	40.00	-7.39
167.74	Peak	32.64	-7.61	25.03	43.50	-18.47
354.95	Peak	36.07	-5.01	31.06	46.00	-14.94
624.61	Peak	29.35	-0.62	28.73	46.00	-17.27

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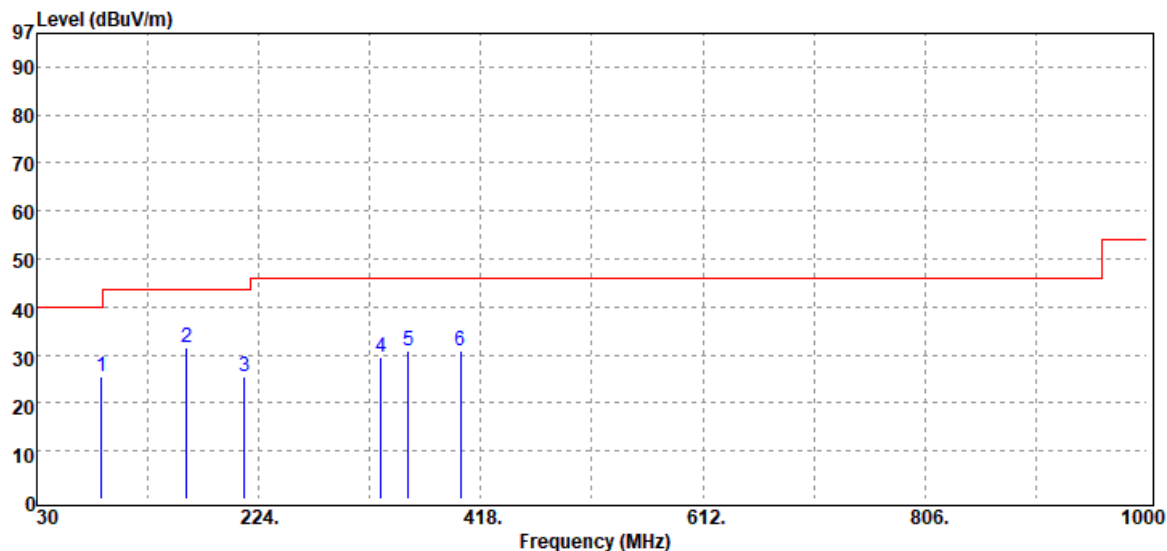
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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-21
Temp./Humi. :21.4/59
Antenna Pol. :HORIZONTAL
Engineer :Nick


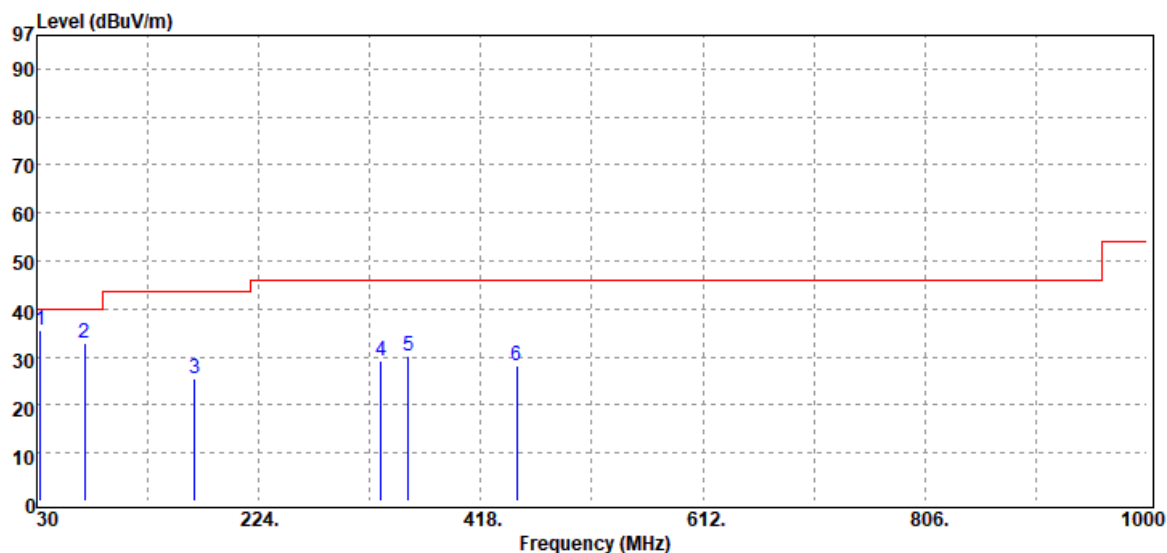
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
86.26	Peak	39.08	-13.44	25.64	40.00	-14.36
160.95	Peak	38.56	-7.14	31.42	43.50	-12.08
211.39	Peak	35.05	-9.67	25.38	43.50	-18.12
330.70	Peak	34.51	-4.91	29.60	46.00	-16.40
354.95	Peak	35.73	-5.01	30.72	46.00	-15.28
400.54	Peak	34.61	-3.87	30.74	46.00	-15.26

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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-21
Temp./Humi. :21.4/59
Antenna Pol. :VERTICAL
Engineer :Nick


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
32.91	Peak	44.18	-8.59	35.59	40.00	-4.41
71.71	Peak	43.19	-10.40	32.79	40.00	-7.21
167.74	Peak	33.21	-7.61	25.60	43.50	-17.90
330.70	Peak	33.95	-4.91	29.04	46.00	-16.96
354.95	Peak	35.22	-5.01	30.21	46.00	-15.79
449.04	Peak	31.46	-3.28	28.18	46.00	-17.82

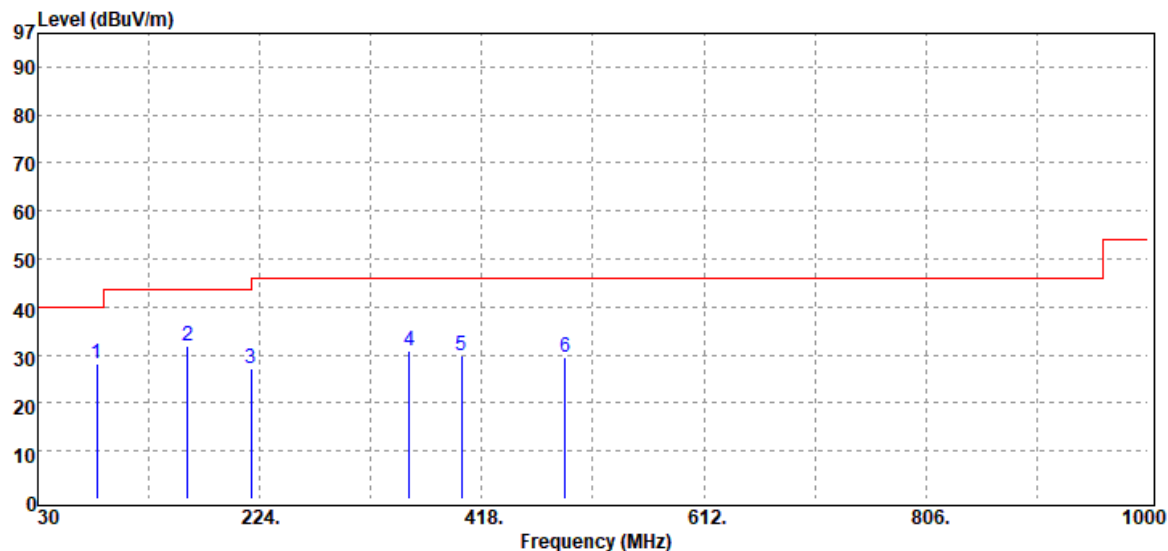
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-21
Temp./Humi. :21.4/59
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
81.41	Peak	40.80	-12.53	28.27	40.00	-11.73
160.95	Peak	39.09	-7.14	31.95	43.50	-11.55
216.24	Peak	36.59	-9.48	27.11	46.00	-18.89
354.95	Peak	35.95	-5.01	30.94	46.00	-15.06
400.54	Peak	33.89	-3.87	30.02	46.00	-15.98
490.75	Peak	31.80	-2.40	29.40	46.00	-16.60

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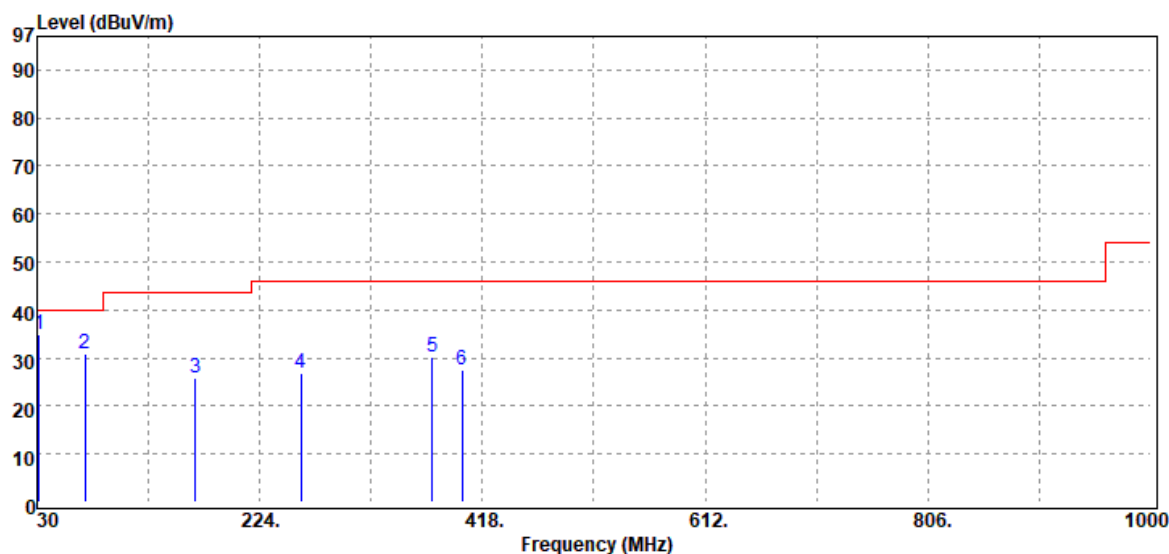
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PCB Antenna

Report Number :ER/2020/10095
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Date :2020-02-21
 Temp./Humi. :21.4/59
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
31.94	Peak	43.48	-8.60	34.88	40.00	-5.12
71.71	Peak	41.43	-10.40	31.03	40.00	-8.97
167.74	Peak	33.52	-7.61	25.91	43.50	-17.59
259.89	Peak	34.24	-7.46	26.78	46.00	-19.22
374.35	Peak	34.78	-4.50	30.28	46.00	-15.72
400.54	Peak	31.33	-3.87	27.46	46.00	-18.54

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台灣檢驗科技股份有限公司 t (886-2) 2299-3279

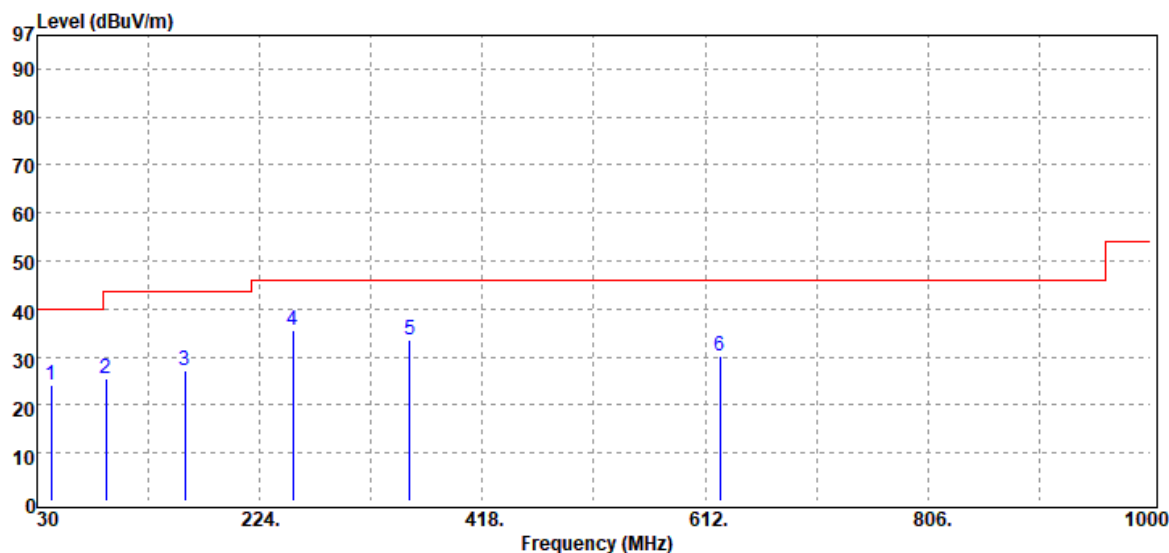
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-21
Temp./Humi. :21.4/59
Antenna Pol. :HORIZONTAL
Engineer :Nick



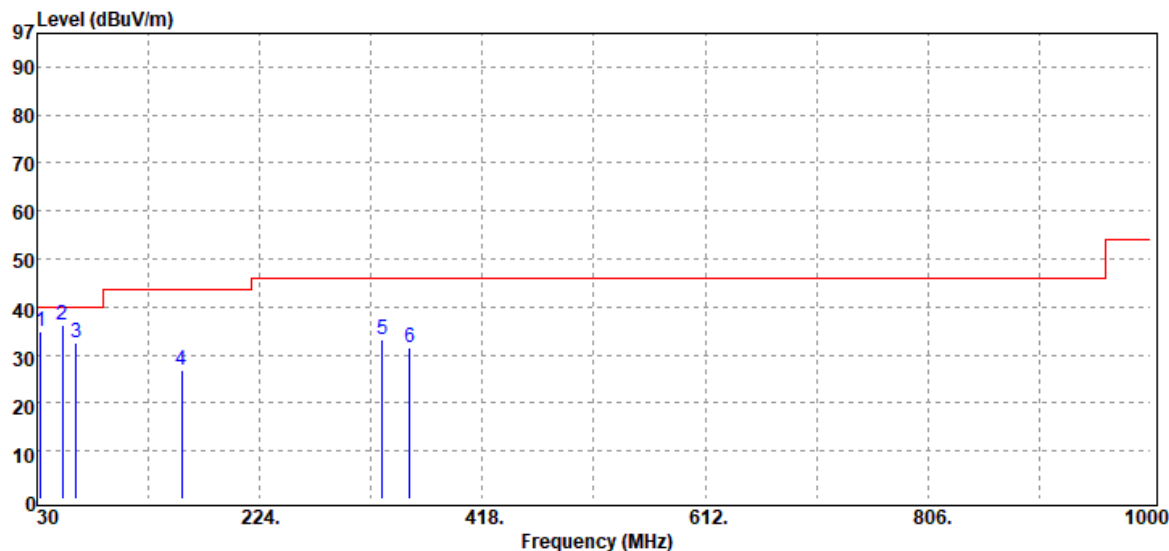
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
42.61	Peak	32.07	-7.95	24.12	40.00	-15.88
90.14	Peak	39.52	-13.89	25.63	43.50	-17.87
159.01	Peak	34.37	-7.13	27.24	43.50	-16.26
253.10	Peak	43.48	-7.74	35.74	46.00	-10.26
354.95	Peak	38.72	-5.01	33.71	46.00	-12.29
624.61	Peak	30.67	-0.62	30.05	46.00	-15.95

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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-21
Temp./Humi. :21.4/59
Antenna Pol. :VERTICAL
Engineer :Nick


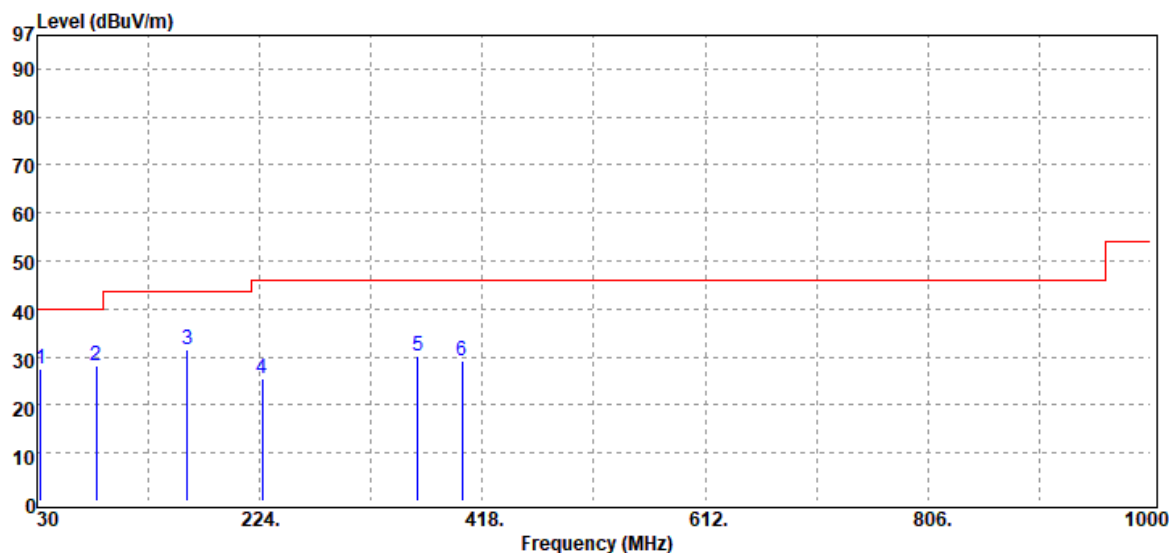
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
32.91	Peak	43.52	-8.59	34.93	40.00	-5.07
52.31	Peak	43.85	-7.72	36.13	40.00	-3.87
63.95	Peak	41.67	-8.97	32.70	40.00	-7.30
156.10	Peak	34.00	-7.06	26.94	43.50	-16.56
330.70	Peak	38.22	-4.91	33.31	46.00	-12.69
354.95	Peak	36.65	-5.01	31.64	46.00	-14.36

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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-21
Temp./Humi. :21.4/59
Antenna Pol. :HORIZONTAL
Engineer :Nick


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
32.91	Peak	35.97	-8.59	27.38	40.00	-12.62
81.41	Peak	40.81	-12.53	28.28	40.00	-11.72
160.95	Peak	38.76	-7.14	31.62	43.50	-11.88
225.94	Peak	34.43	-8.88	25.55	46.00	-20.45
361.74	Peak	34.95	-4.87	30.08	46.00	-15.92
400.54	Peak	33.23	-3.87	29.36	46.00	-16.64

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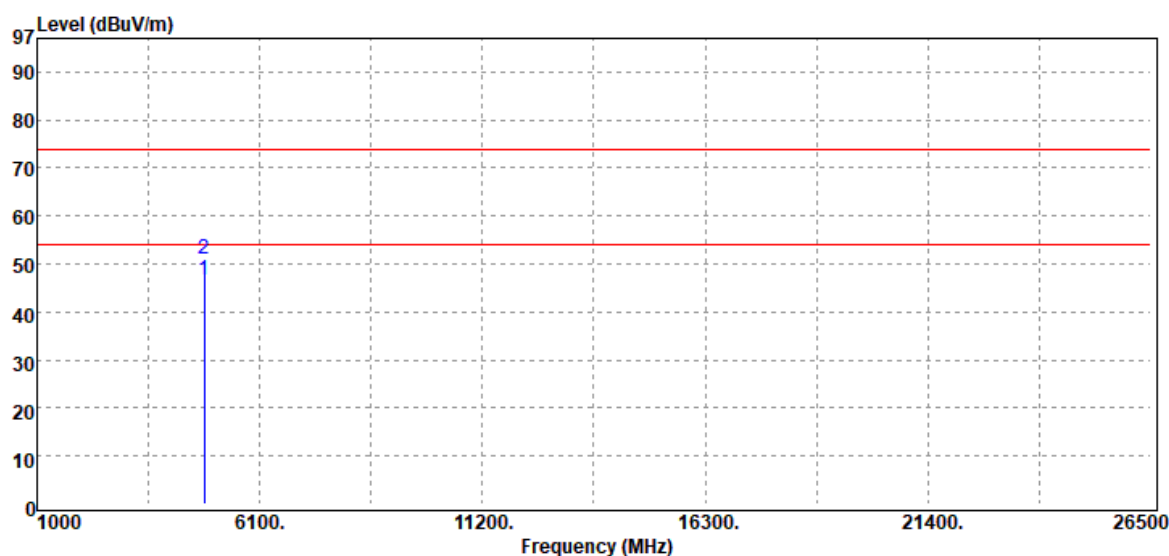
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11.7.3 Above 1GHz Emission:

ROD Antenna

Report Number :ER/2020/10095
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Date :2020-02-24
 Temp./Humi. :21.3/43
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	40.25	6.53	46.78	54.00	-7.22
4824.00	Peak	44.41	6.53	50.94	74.00	-23.06

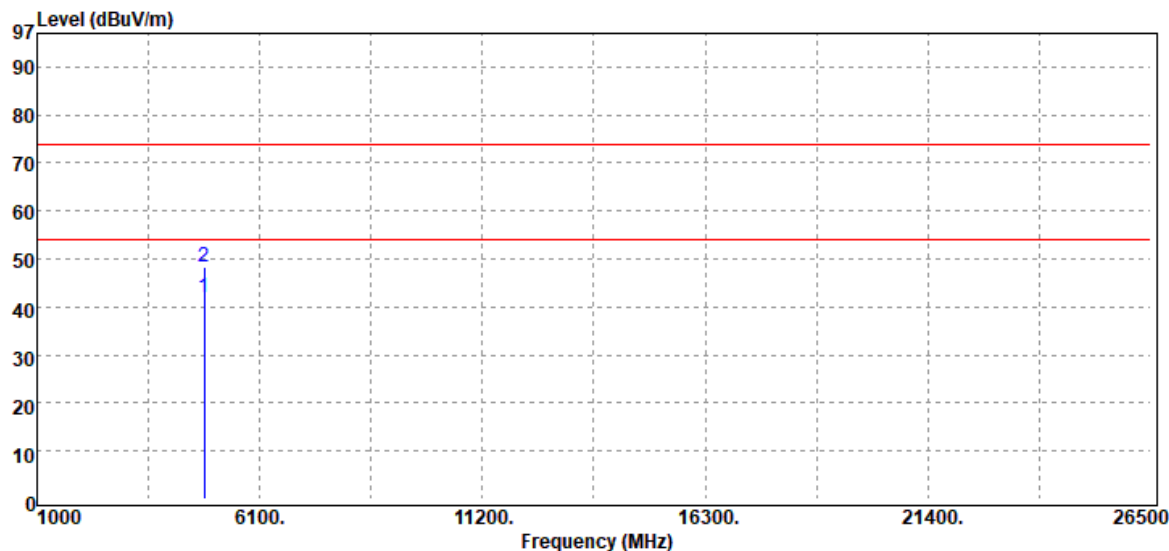
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Report Number :ER/2020/10095
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :H Plane

Test Date :2020-02-24
Temp./Humi. :21.3/43
Antenna Pol. :HORIZONTAL
Engineer :Nick



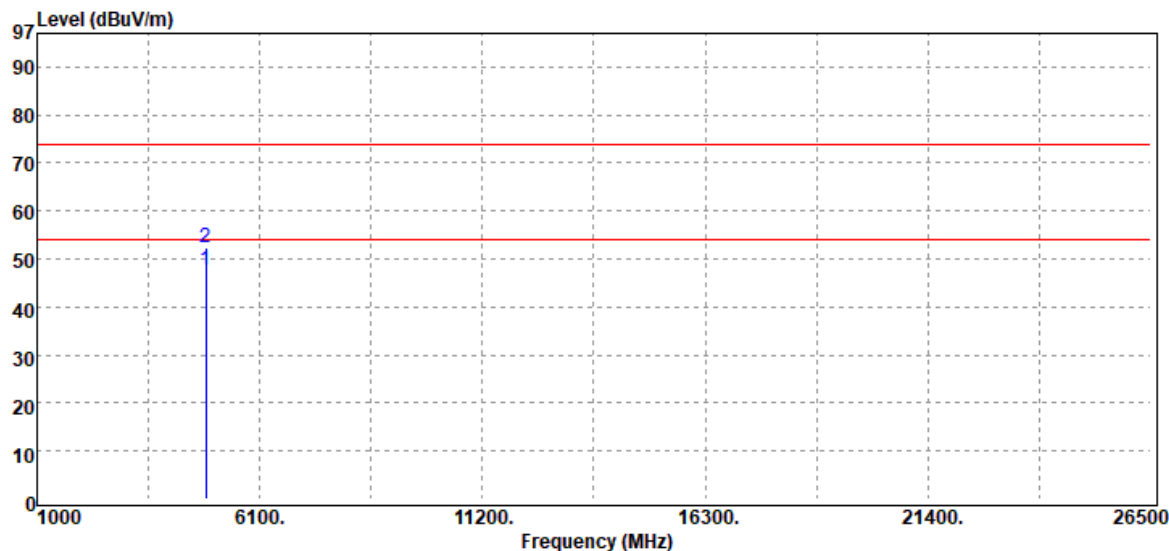
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	35.54	6.53	42.07	54.00	-11.93
4824.00	Peak	41.75	6.53	48.28	74.00	-25.72

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Report Number :ER/2020/10095
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :VERTICAL
Engineer :Nick


Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	41.00	6.69	47.69	54.00	-6.31
4874.00	Peak	45.60	6.69	52.29	74.00	-21.71

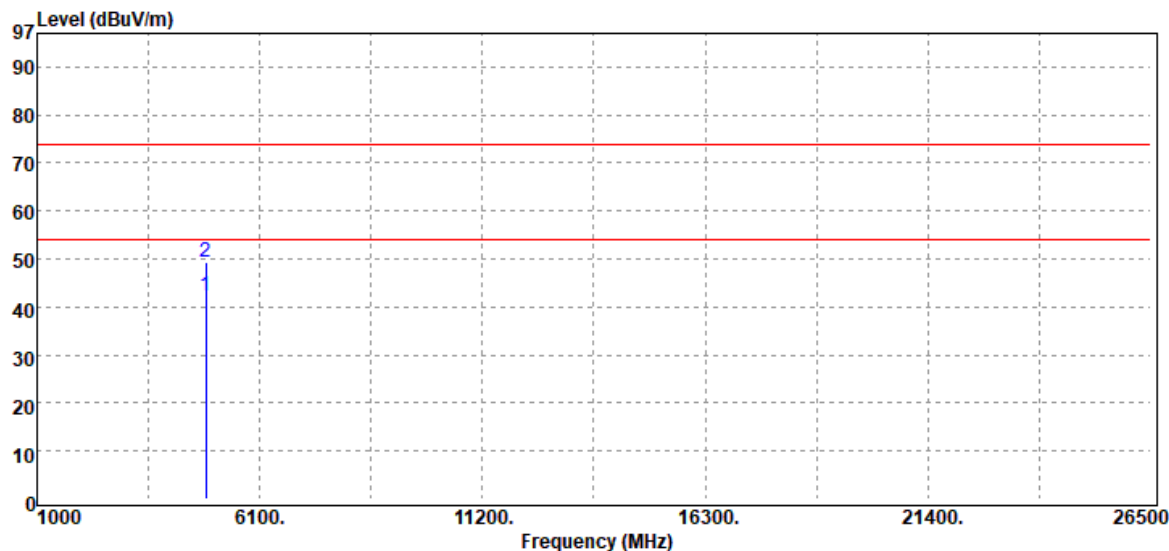
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Report Number :ER/2020/10095
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	35.49	6.69	42.18	54.00	-11.82
4874.00	Peak	42.75	6.69	49.44	74.00	-24.56

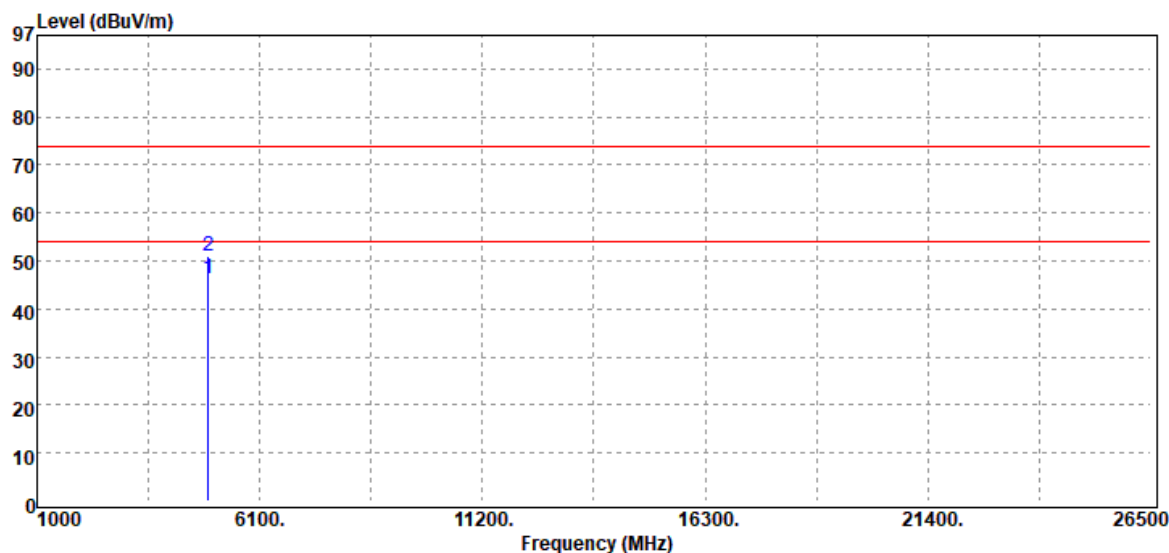
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Report Number :ER/2020/10095
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :VERTICAL
Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	39.57	6.85	46.42	54.00	-7.58
4924.00	Peak	44.15	6.85	51.00	74.00	-23.00

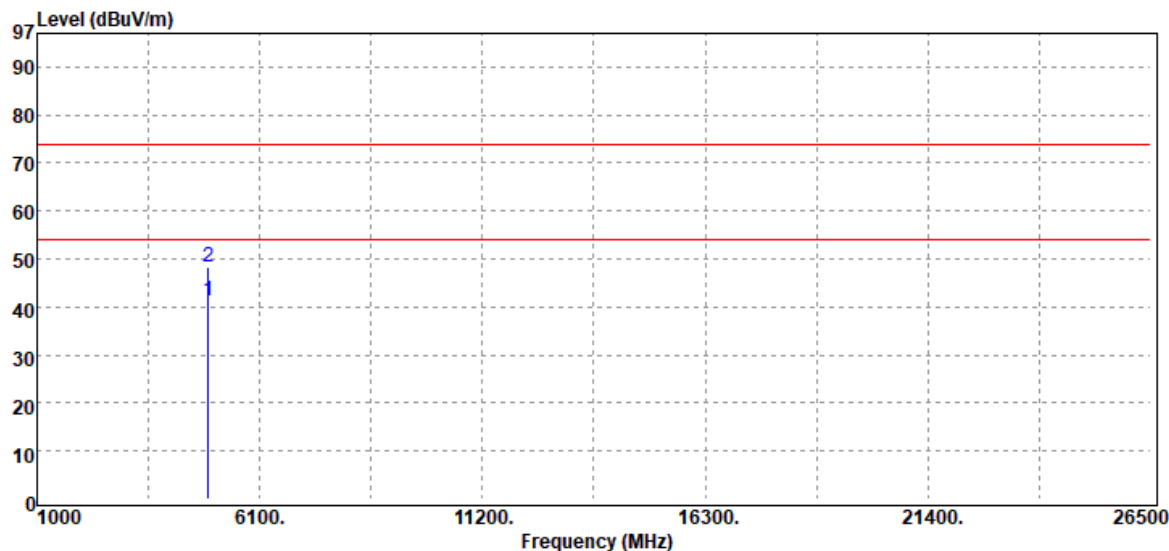
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Report Number :ER/2020/10095
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :HORIZONTAL
Engineer :Nick



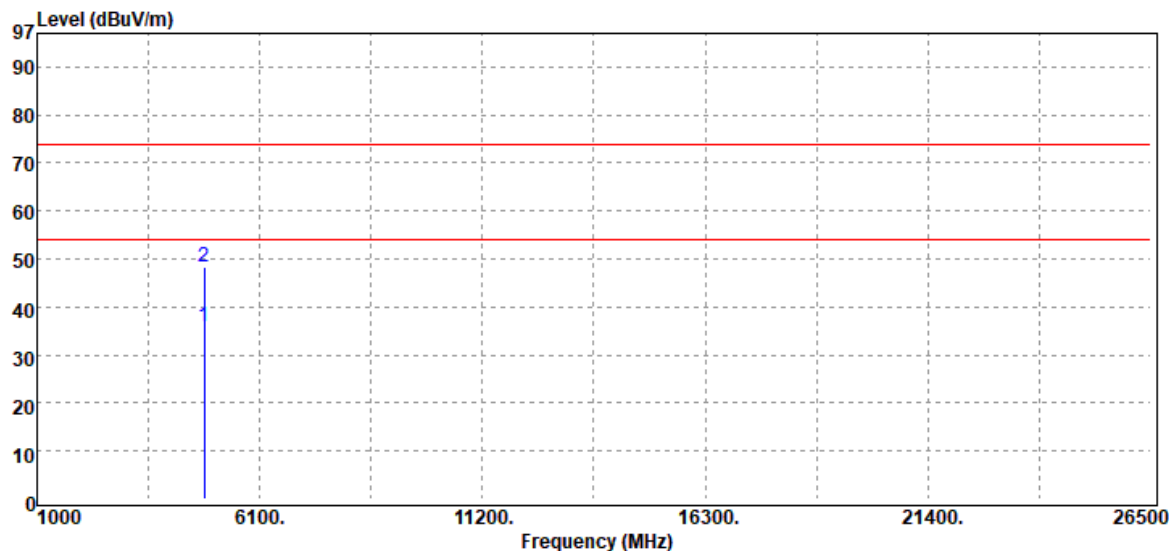
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	34.37	6.85	41.22	54.00	-12.78
4924.00	Peak	41.47	6.85	48.32	74.00	-25.68

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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :VERTICAL
Engineer :Nick


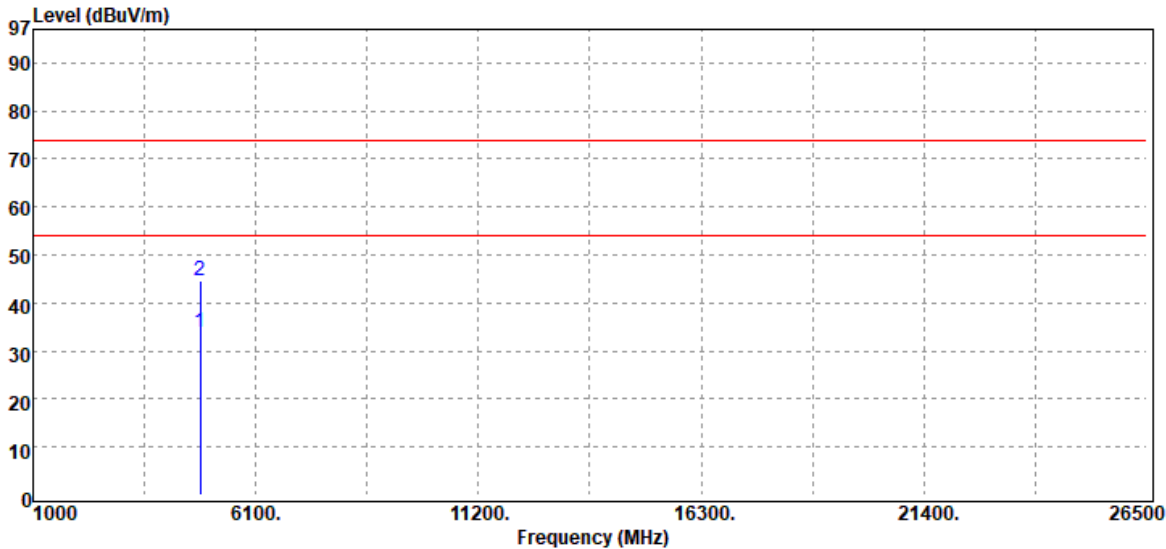
Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	29.50	6.53	36.03	54.00	-17.97
4824.00	Peak	41.84	6.53	48.37	74.00	-25.63

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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :HORIZONTAL
Engineer :Nick


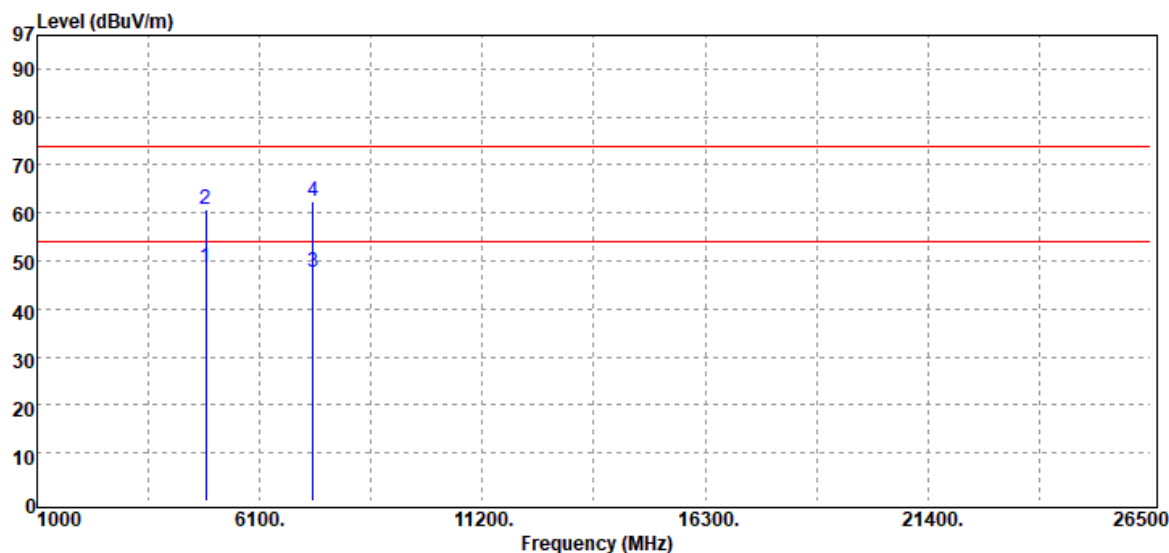
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	27.20	6.53	33.73	54.00	-20.27
4824.00	Peak	38.22	6.53	44.75	74.00	-29.25

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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :VERTICAL
Engineer :Nick


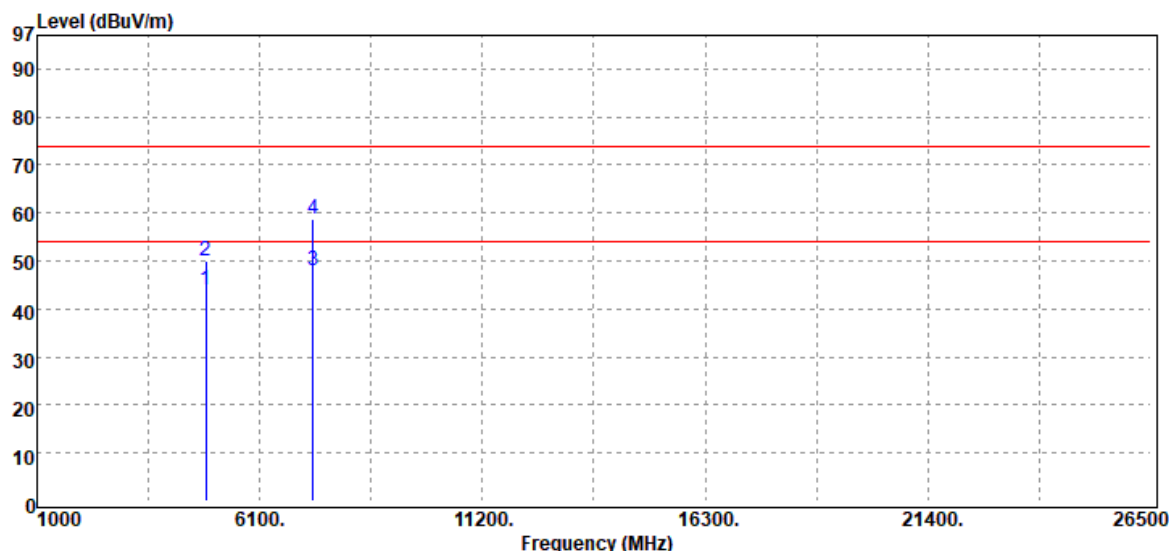
Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	41.89	6.69	48.58	54.00	-5.42
4874.00	Peak	53.98	6.69	60.67	74.00	-13.33
7311.00	Average	33.30	14.20	47.50	54.00	-6.50
7311.00	Peak	48.35	14.20	62.55	74.00	-11.45

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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :HORIZONTAL
Engineer :Nick


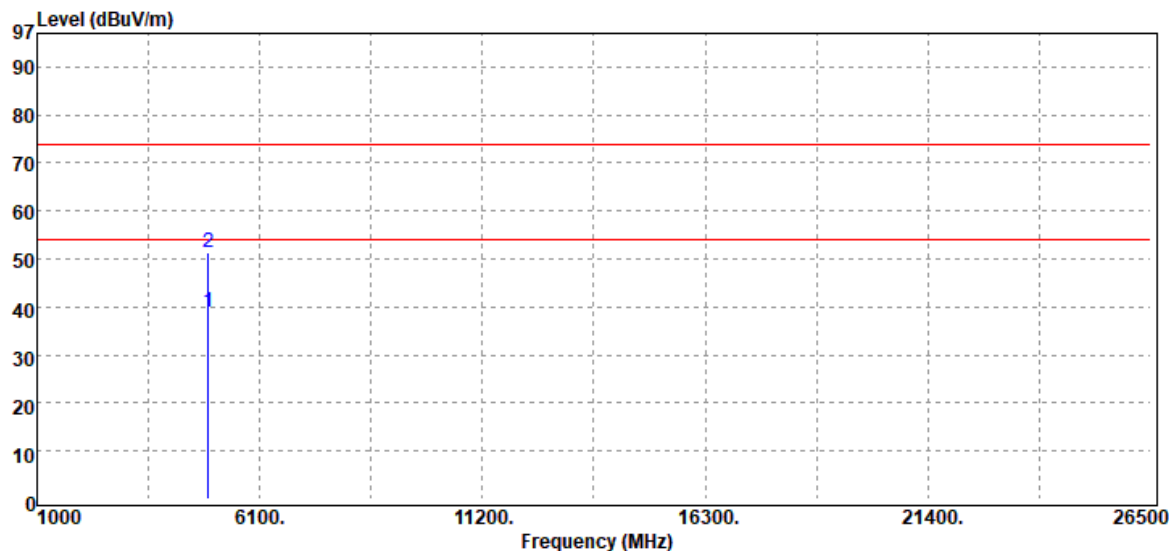
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	37.24	6.69	43.93	54.00	-10.07
4874.00	Peak	43.45	6.69	50.14	74.00	-23.86
7311.00	Average	33.77	14.20	47.97	54.00	-6.03
7311.00	Peak	44.42	14.20	58.62	74.00	-15.38

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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :VERTICAL
Engineer :Nick


Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	32.06	6.85	38.91	54.00	-15.09
4924.00	Peak	44.43	6.85	51.28	74.00	-22.72

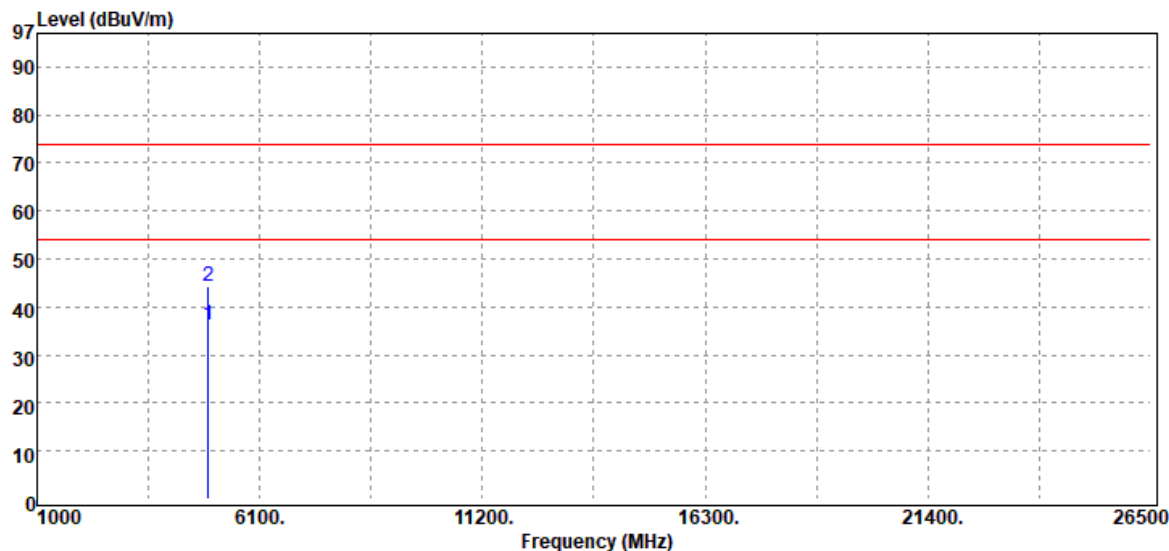
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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :HORIZONTAL
Engineer :Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	29.30	6.85	36.15	54.00	-17.85
4924.00	Peak	37.48	6.85	44.33	74.00	-29.67

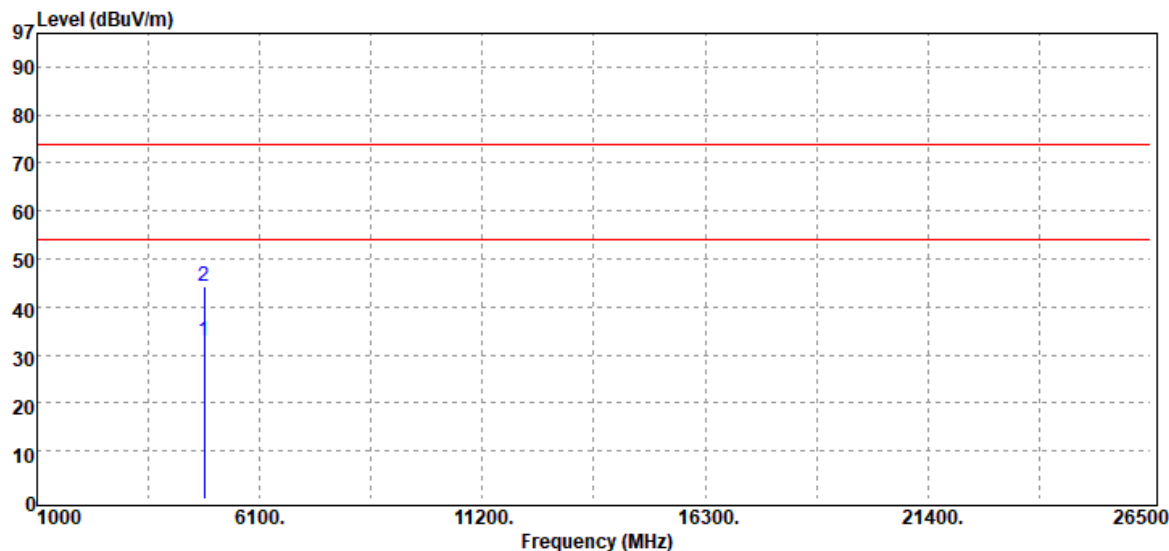
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :VERTICAL
Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	26.28	6.53	32.81	54.00	-21.19
4824.00	Peak	37.71	6.53	44.24	74.00	-29.76

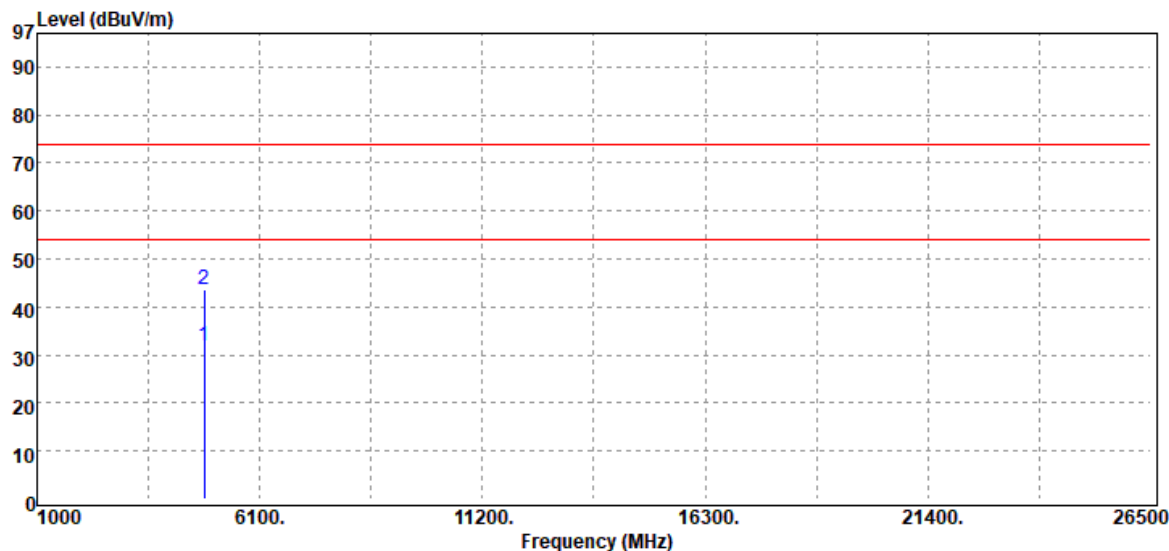
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :HORIZONTAL
Engineer :Nick



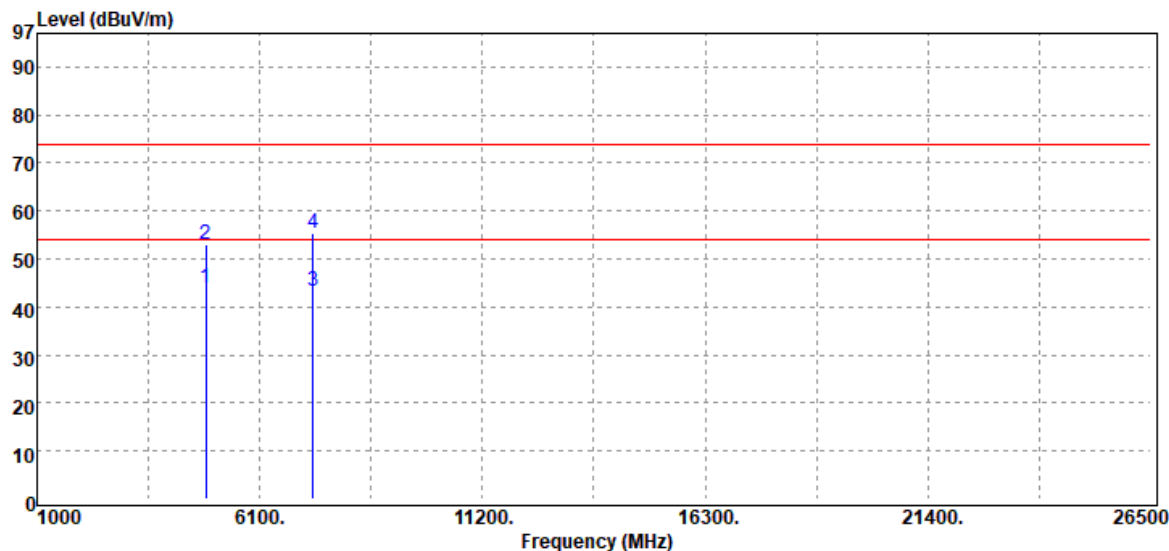
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	25.32	6.53	31.85	54.00	-22.15
4824.00	Peak	37.04	6.53	43.57	74.00	-30.43

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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :VERTICAL
Engineer :Nick


Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	37.23	6.69	43.92	54.00	-10.08
4874.00	Peak	46.24	6.69	52.93	74.00	-21.07
7311.00	Average	29.01	14.20	43.21	54.00	-10.79
7311.00	Peak	41.19	14.20	55.39	74.00	-18.61

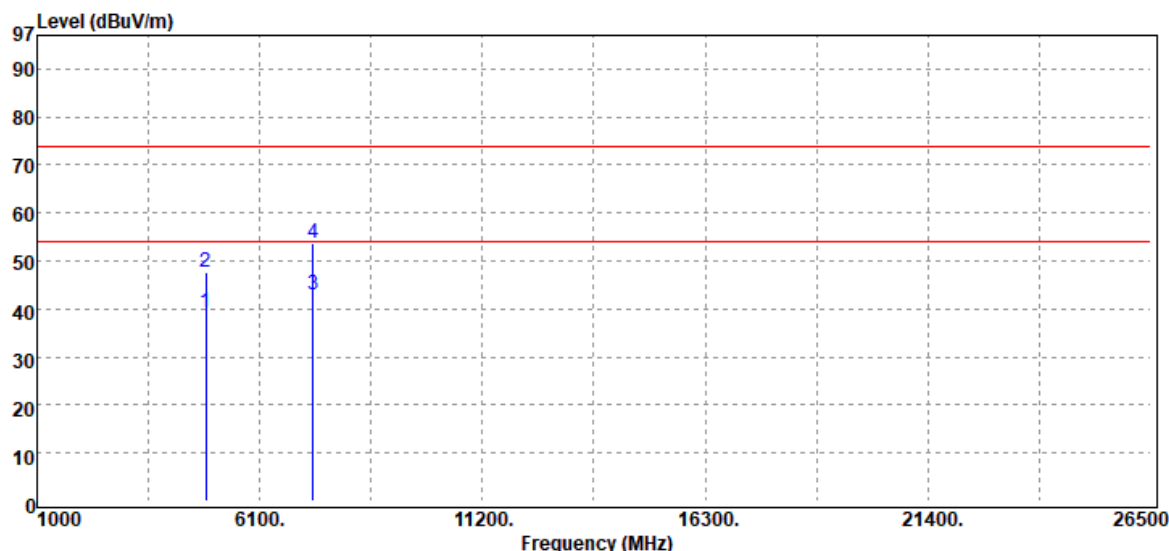
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :HORIZONTAL
Engineer :Nick



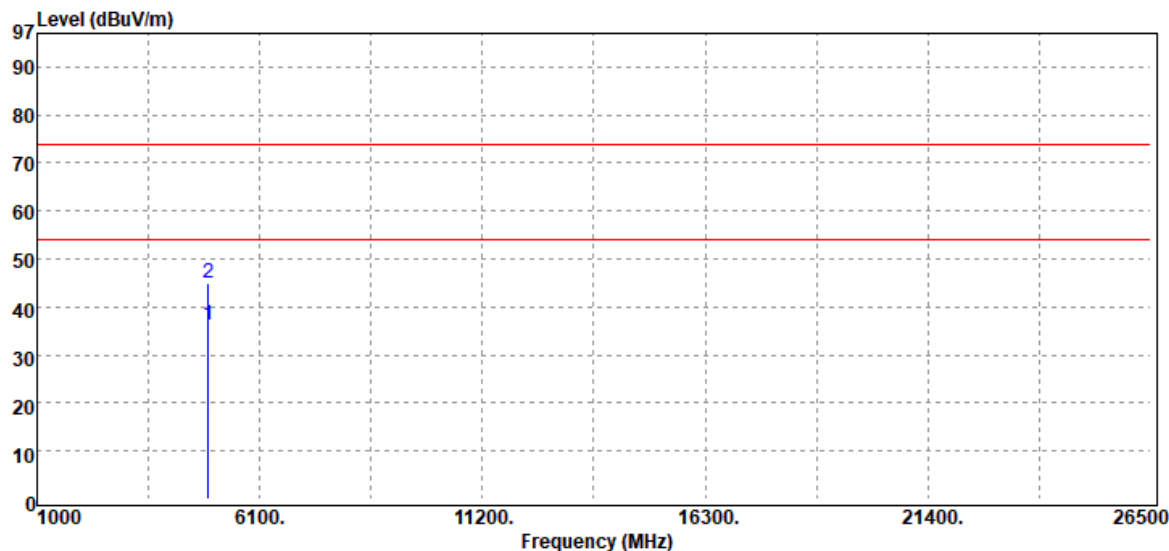
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	32.66	6.69	39.35	54.00	-14.65
4874.00	Peak	40.92	6.69	47.61	74.00	-26.39
7311.00	Average	28.79	14.20	42.99	54.00	-11.01
7311.00	Peak	39.48	14.20	53.68	74.00	-20.32

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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :VERTICAL
Engineer :Nick


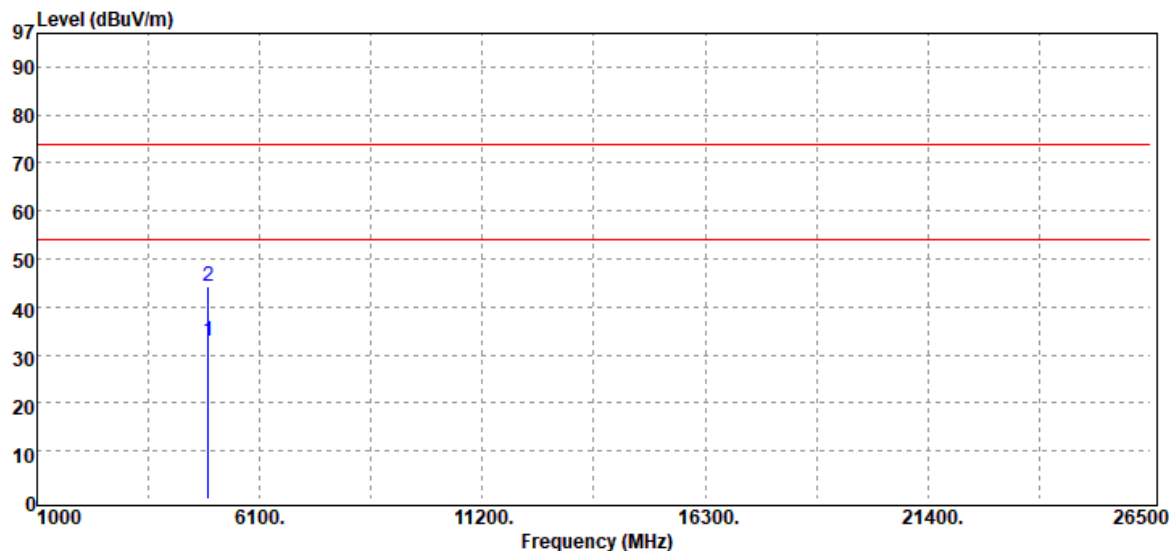
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	29.25	6.85	36.10	54.00	-17.90
4924.00	Peak	38.27	6.85	45.12	74.00	-28.88

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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :HORIZONTAL
Engineer :Nick


Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	25.96	6.85	32.81	54.00	-21.19
4924.00	Peak	37.43	6.85	44.28	74.00	-29.72

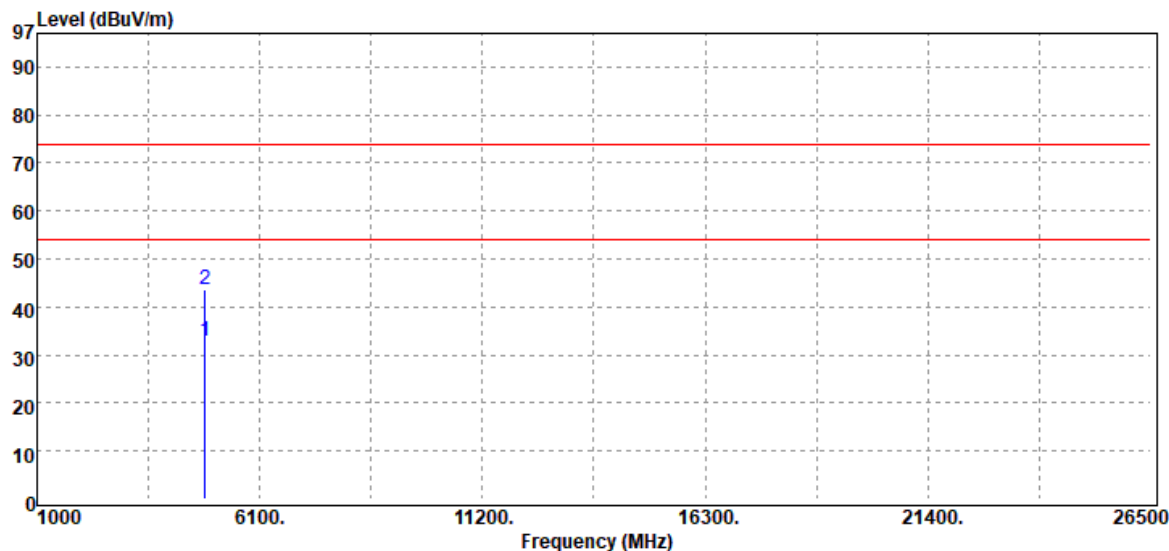
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Report Number :ER/2020/10095
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Date :2020-02-19
 Temp./Humi. :21.3/43
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	Average	26.45	6.60	33.05	54.00	-20.95
4844.00	Peak	37.08	6.60	43.68	74.00	-30.32

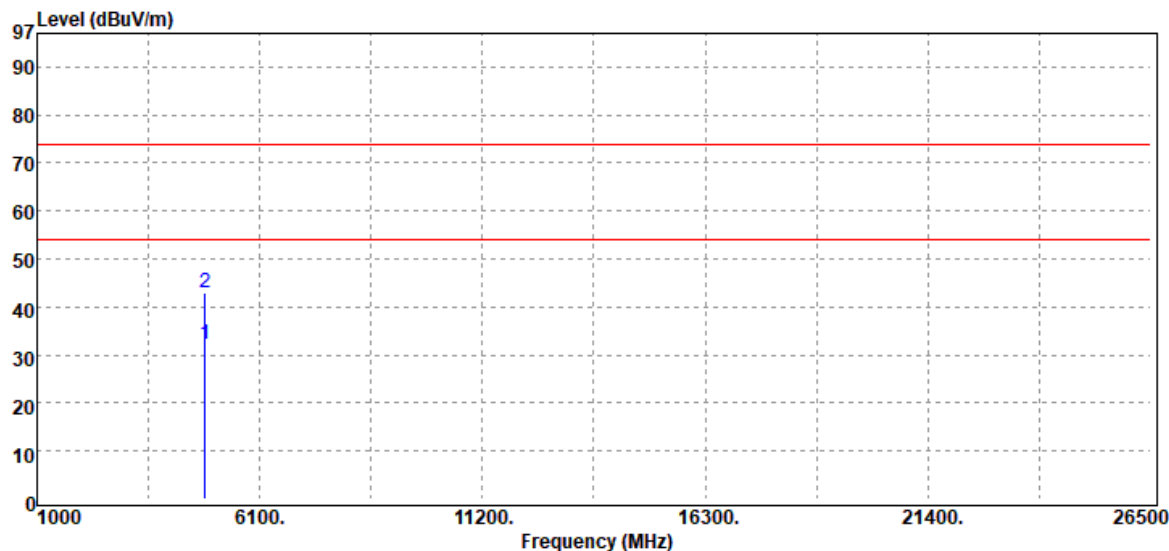
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2422 MHz
Test Mode :Tx CH Low
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :HORIZONTAL
Engineer :Nick



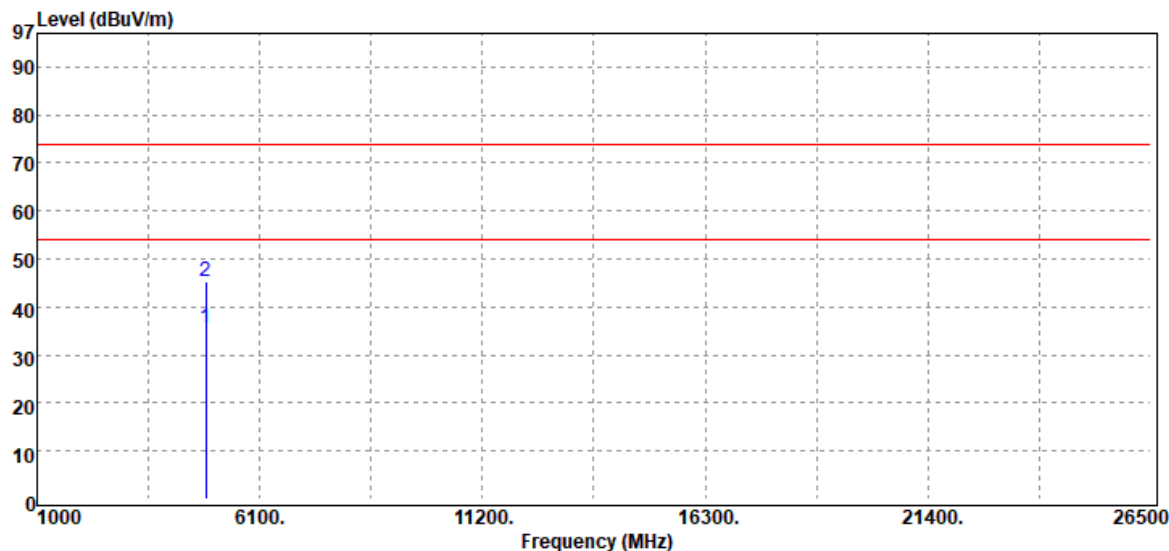
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	Average	25.52	6.60	32.12	54.00	-21.88
4844.00	Peak	36.22	6.60	42.82	74.00	-31.18

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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :VERTICAL
Engineer :Nick


Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	28.81	6.69	35.50	54.00	-18.50
4874.00	Peak	38.49	6.69	45.18	74.00	-28.82

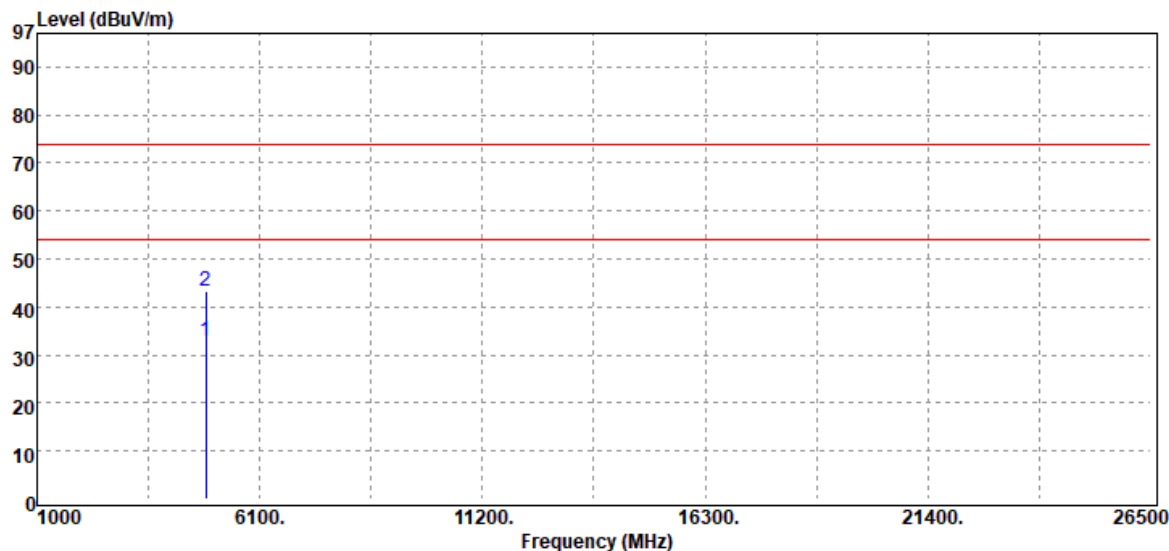
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :HORIZONTAL
Engineer :Nick



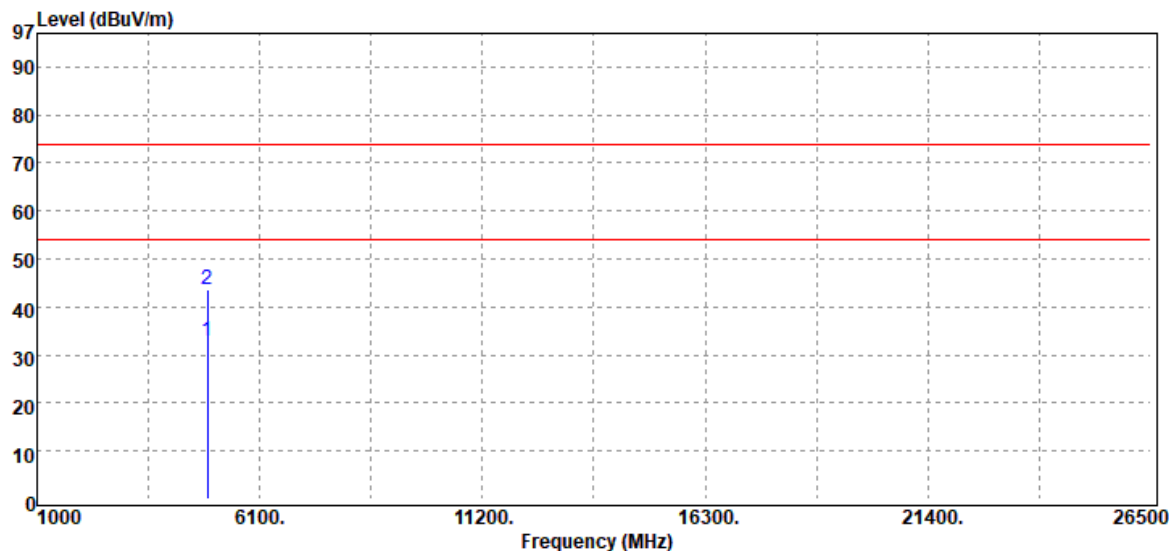
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	26.27	6.69	32.96	54.00	-21.04
4874.00	Peak	36.77	6.69	43.46	74.00	-30.54

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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2452 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Date :2020-02-19
Temp./Humi. :21.3/43
Antenna Pol. :VERTICAL
Engineer :Nick


Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4904.00	Average	26.12	6.78	32.90	54.00	-21.10
4904.00	Peak	36.83	6.78	43.61	74.00	-30.39

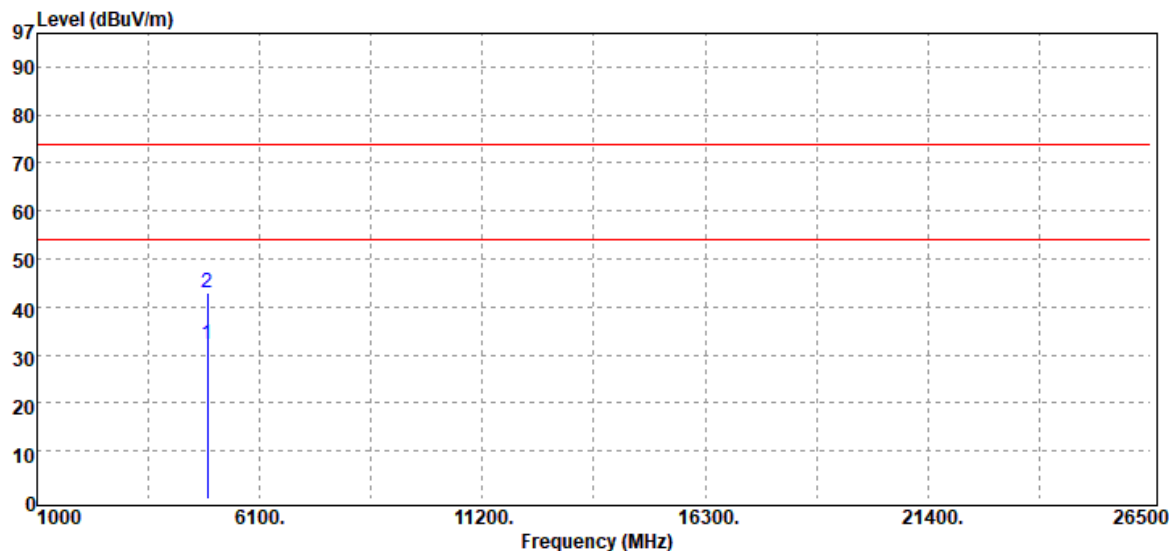
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Report Number :ER/2020/10095
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Date :2020-02-19
 Temp./Humi. :21.3/43
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4904.00	Average	25.43	6.78	32.21	54.00	-21.79
4904.00	Peak	36.35	6.78	43.13	74.00	-30.87

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

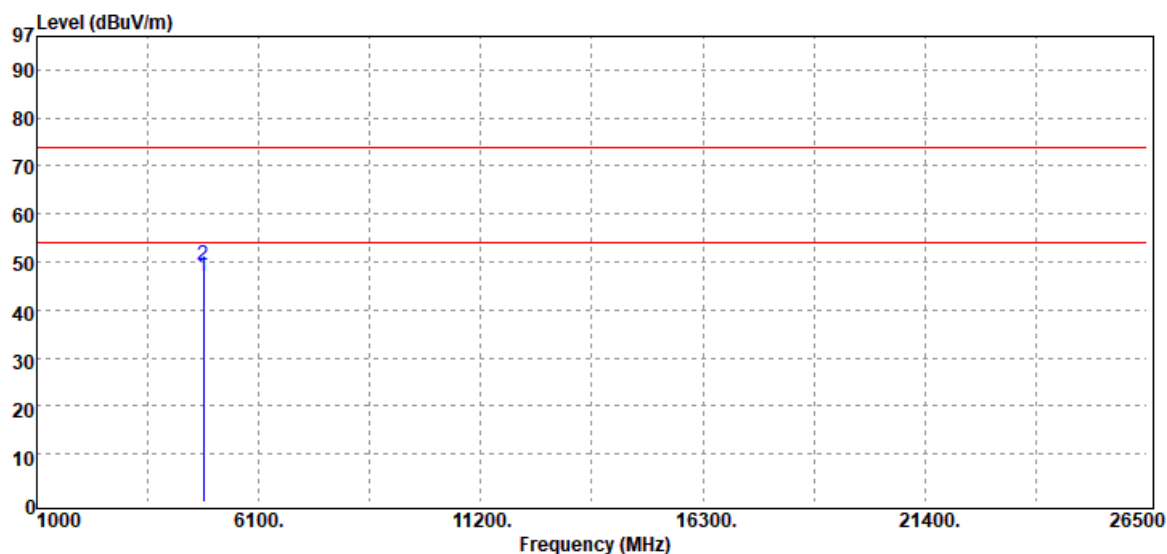
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PCB Antenna

Report Number :ER/2020/10095
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Date :2020-02-17
 Temp./Humi. :19.5/42
 Antenna Pol. :VERTICAL
 Engineer :Kane



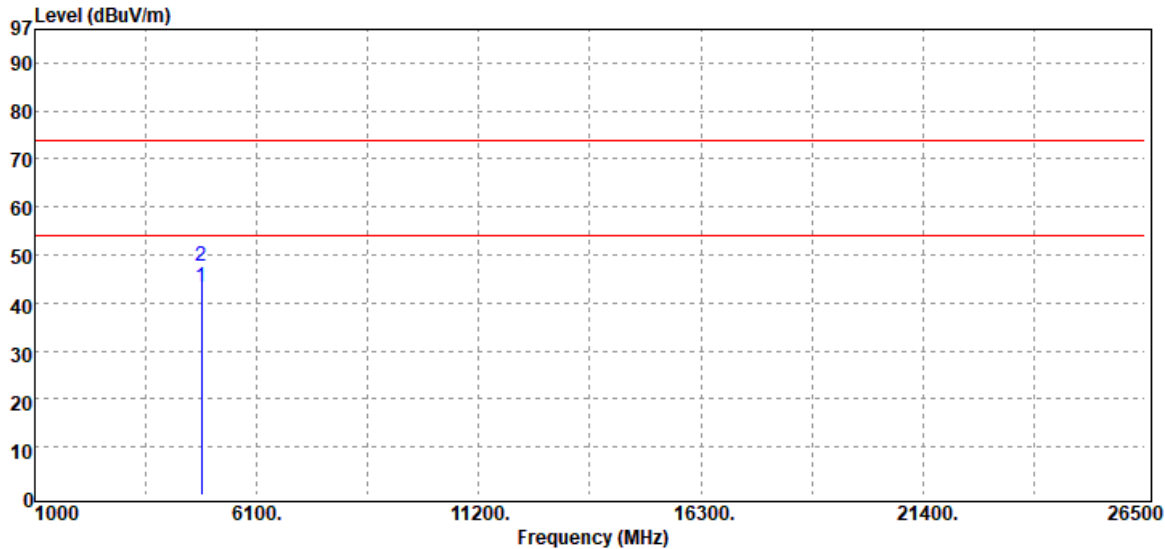
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	40.32	6.53	46.85	54.00	-7.15
4824.00	Peak	42.72	6.53	49.25	74.00	-24.75

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Report Number :ER/2020/10095
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :HORIZONTAL
Engineer :Kane


Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	36.75	6.53	43.28	54.00	-10.72
4824.00	Peak	41.06	6.53	47.59	74.00	-26.41

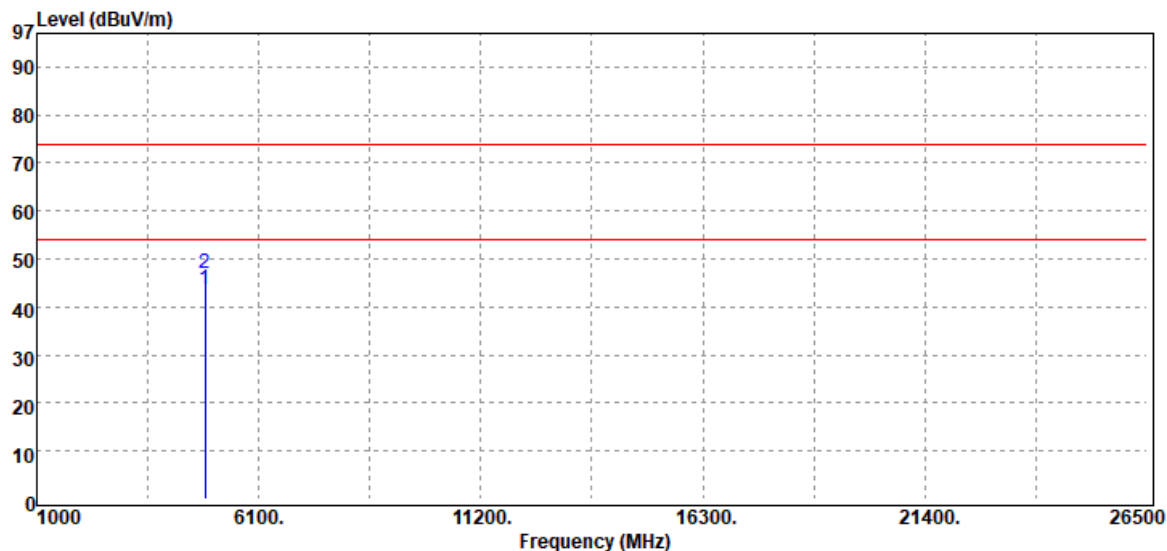
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Report Number :ER/2020/10095
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :VERTICAL
Engineer :Kane



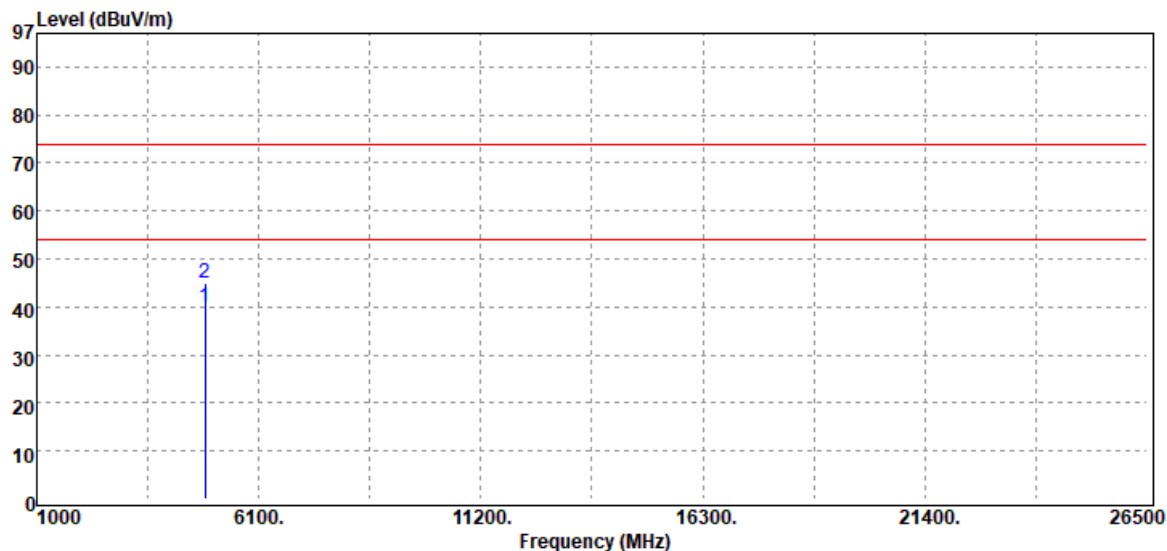
Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	36.86	6.69	43.55	54.00	-10.45
4874.00	Peak	40.42	6.69	47.11	74.00	-26.89

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Report Number :ER/2020/10095
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :HORIZONTAL
Engineer :Kane


Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	33.34	6.69	40.03	54.00	-13.97
4874.00	Peak	38.43	6.69	45.12	74.00	-28.88

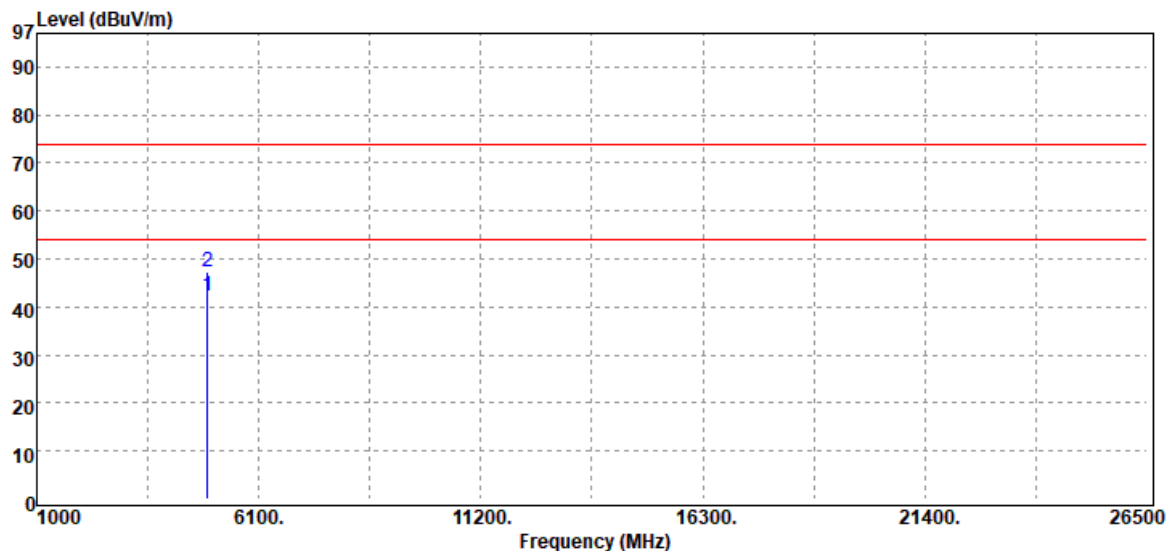
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Report Number :ER/2020/10095
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	35.47	6.85	42.32	54.00	-11.68
4924.00	Peak	40.31	6.85	47.16	74.00	-26.84

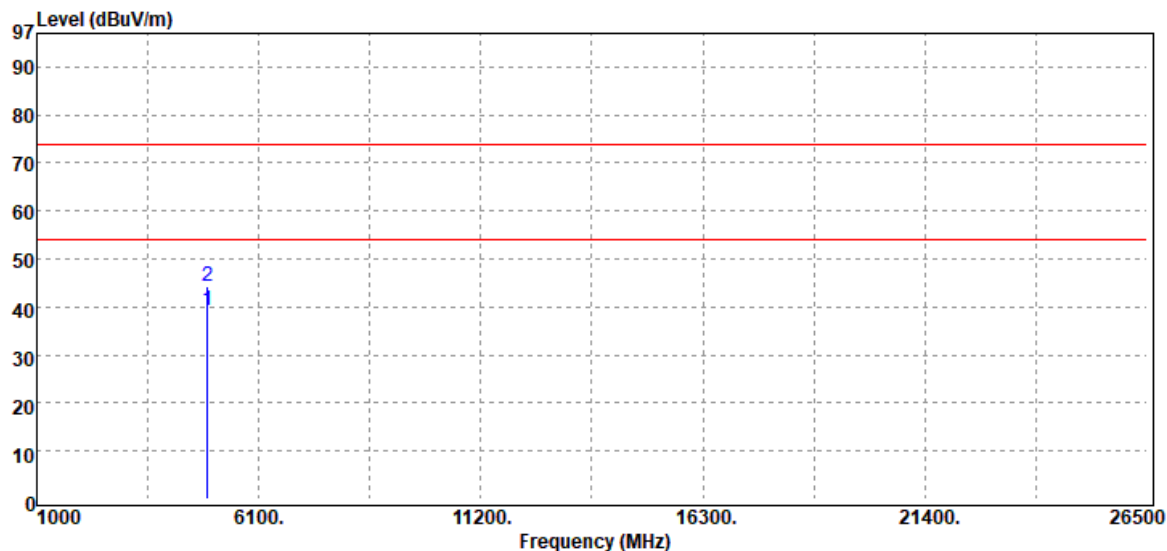
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Report Number :ER/2020/10095
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :HORIZONTAL
Engineer :Kane



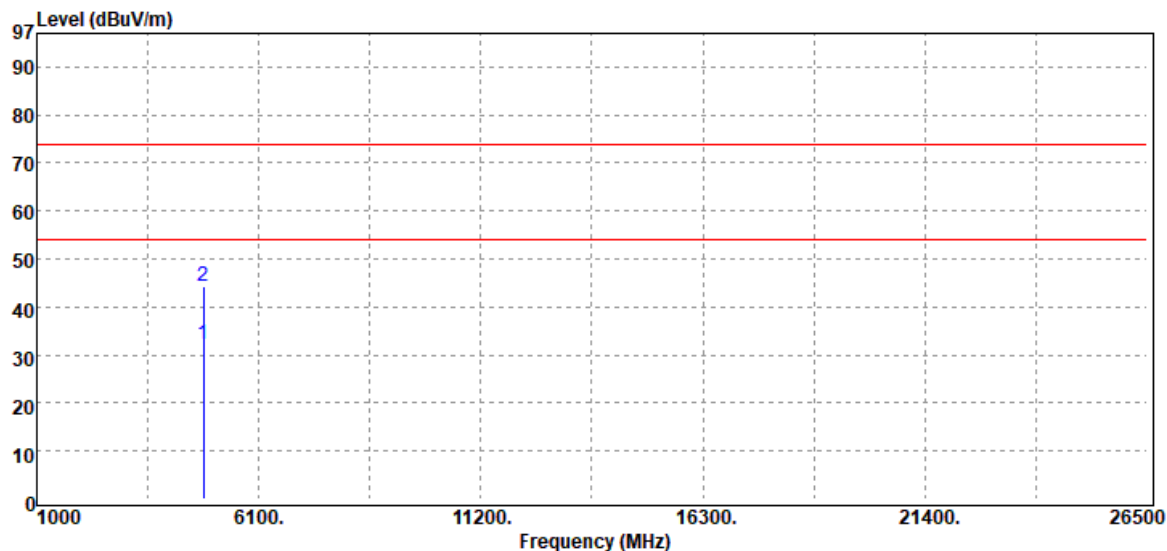
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	32.31	6.85	39.16	54.00	-14.84
4924.00	Peak	37.52	6.85	44.37	74.00	-29.63

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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :VERTICAL
Engineer :Kane


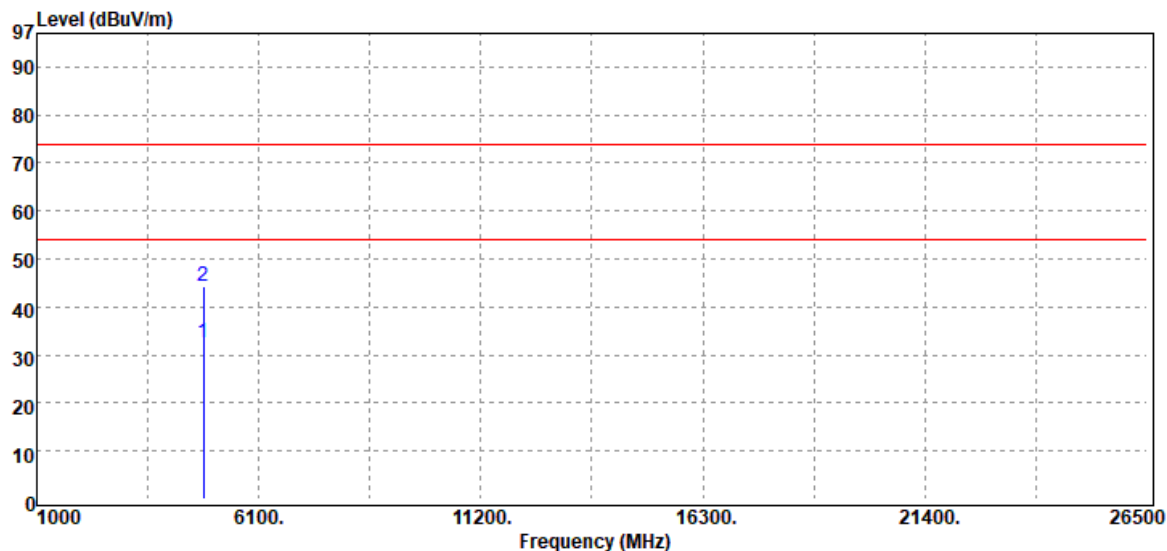
Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	25.65	6.53	32.18	54.00	-21.82
4824.00	Peak	37.93	6.53	44.46	74.00	-29.54

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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :HORIZONTAL
Engineer :Kane


Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	25.91	6.53	32.44	54.00	-21.56
4824.00	Peak	37.77	6.53	44.30	74.00	-29.70

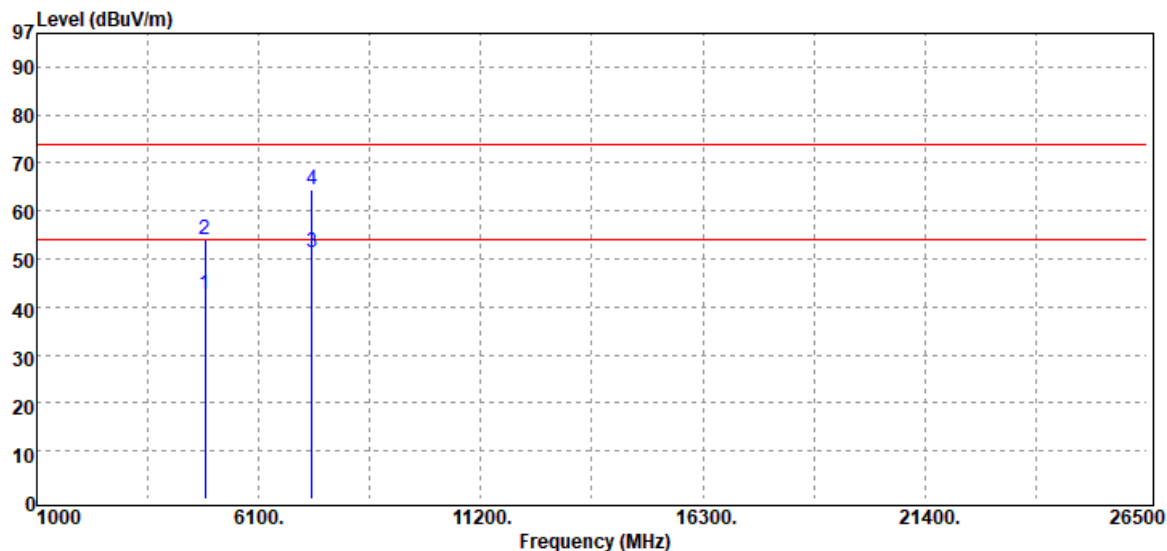
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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :VERTICAL
Engineer :Kane



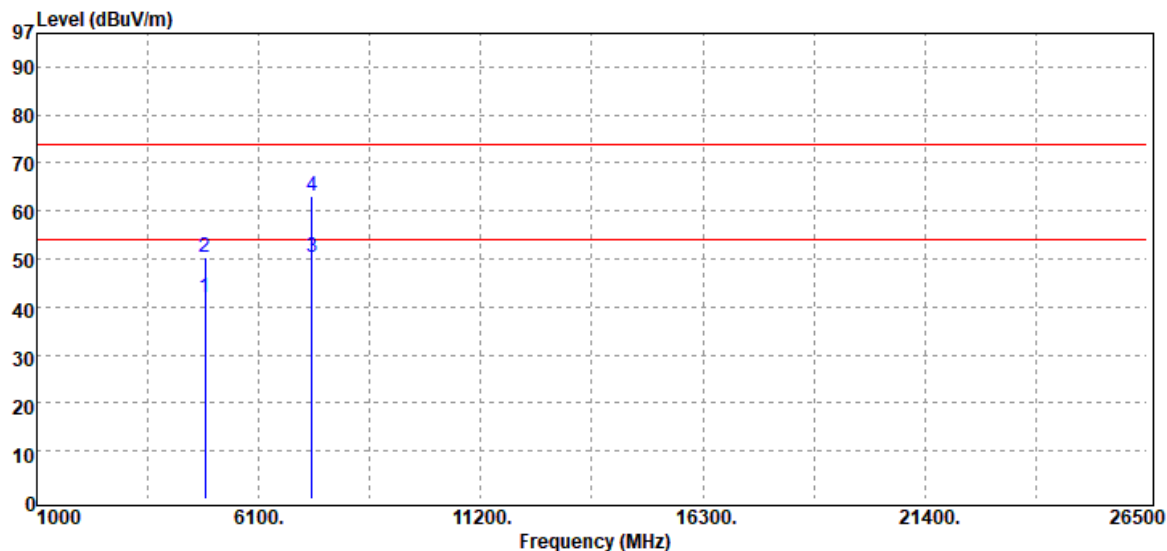
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	35.78	6.69	42.47	54.00	-11.53
4874.00	Peak	47.39	6.69	54.08	74.00	-19.92
7311.00	Average	37.04	14.20	51.24	54.00	-2.76
7311.00	Peak	50.21	14.20	64.41	74.00	-9.59

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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :HORIZONTAL
Engineer :Kane


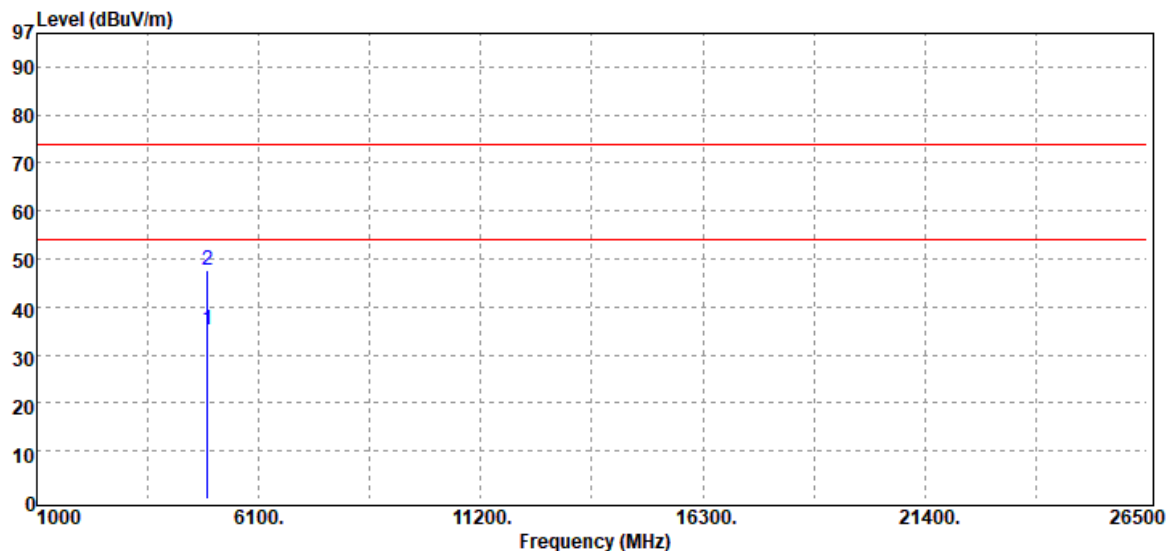
Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	35.36	6.69	42.05	54.00	-11.95
4874.00	Peak	43.70	6.69	50.39	74.00	-23.61
7311.00	Average	36.18	14.20	50.38	54.00	-3.62
7311.00	Peak	48.89	14.20	63.09	74.00	-10.91

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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :VERTICAL
Engineer :Kane


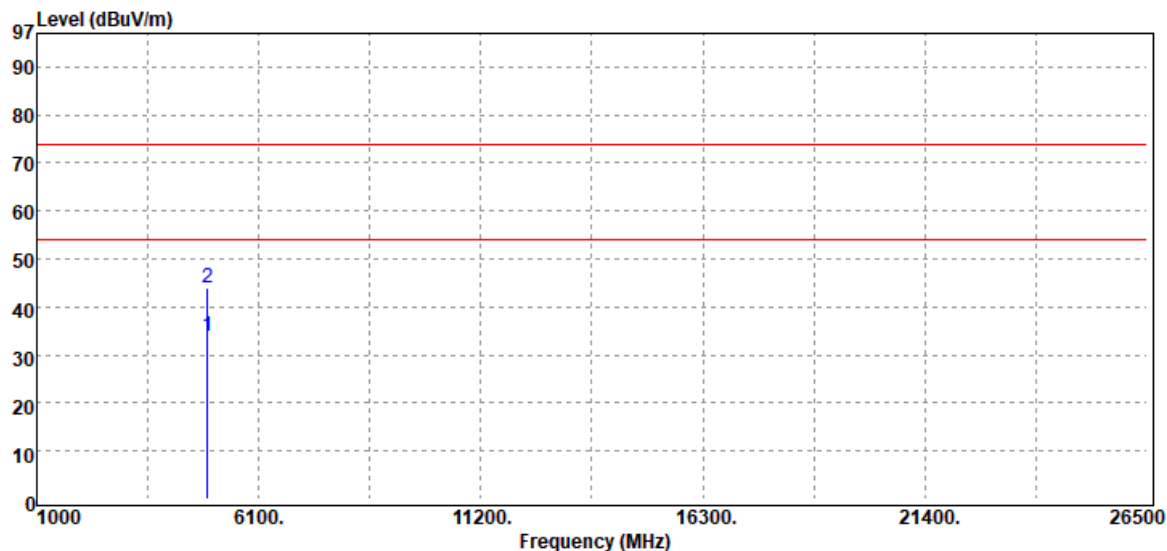
Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	28.46	6.85	35.31	54.00	-18.69
4924.00	Peak	40.71	6.85	47.56	74.00	-26.44

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Report Number :ER/2020/10095
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :HORIZONTAL
Engineer :Kane


Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	27.07	6.85	33.92	54.00	-20.08
4924.00	Peak	37.07	6.85	43.92	74.00	-30.08

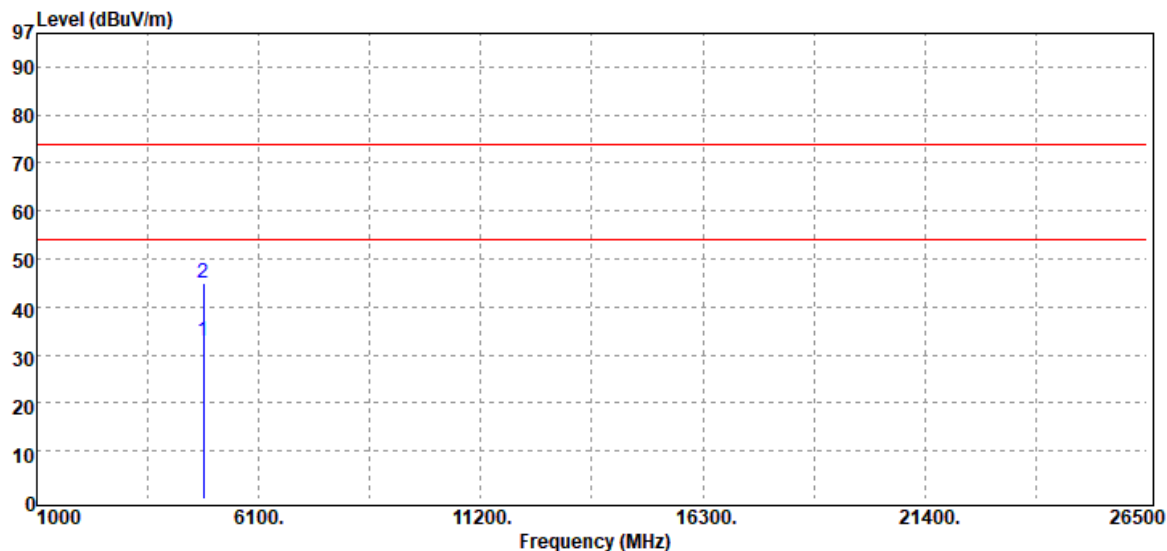
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	26.35	6.53	32.88	54.00	-21.12
4824.00	Peak	38.29	6.53	44.82	74.00	-29.18

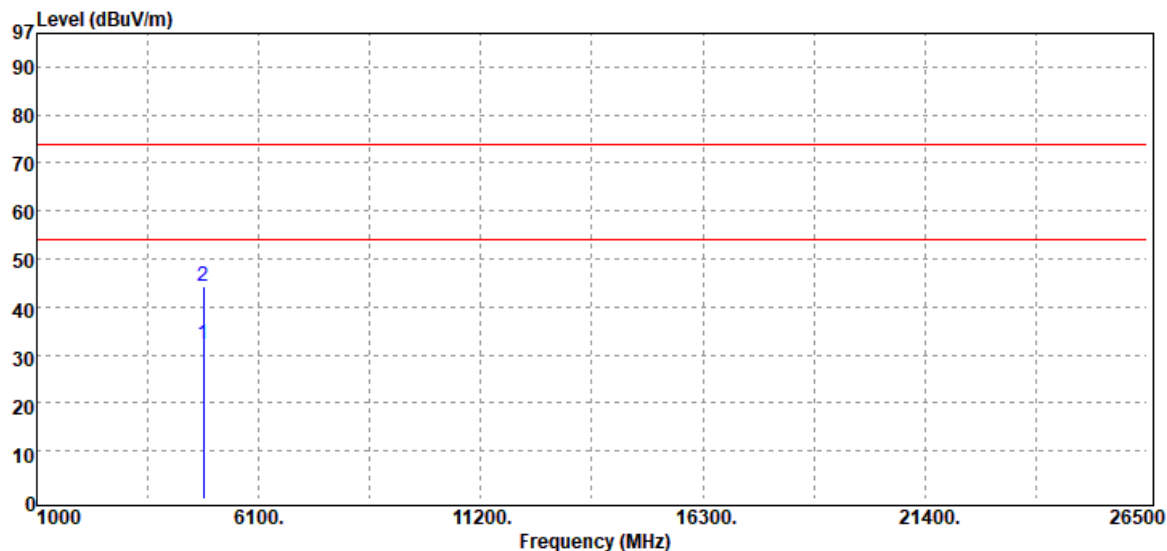
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	25.61	6.53	32.14	54.00	-21.86
4824.00	Peak	37.88	6.53	44.41	74.00	-29.59

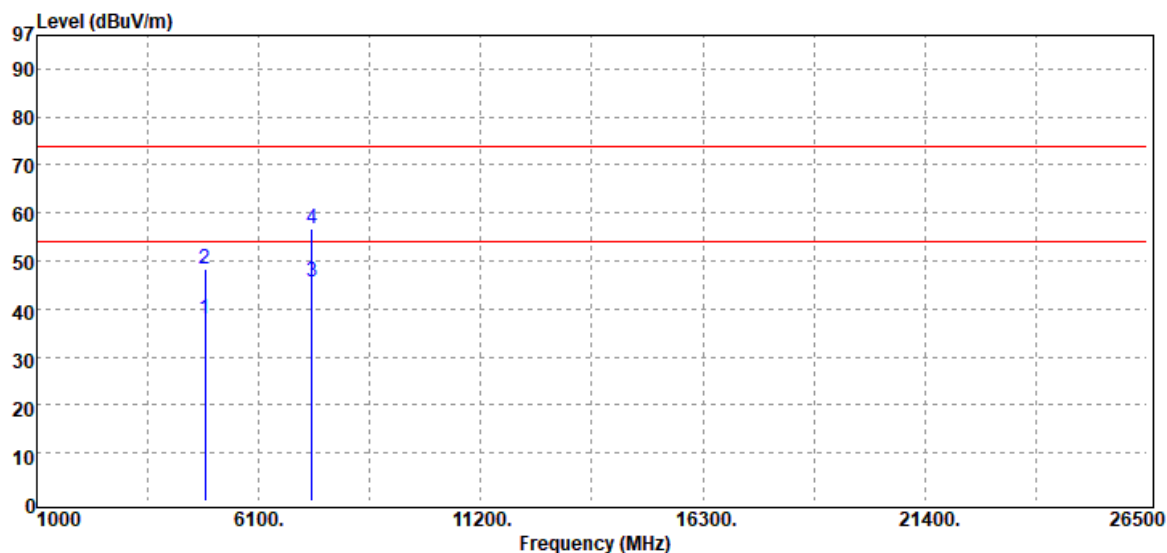
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :VERTICAL
Engineer :Kane



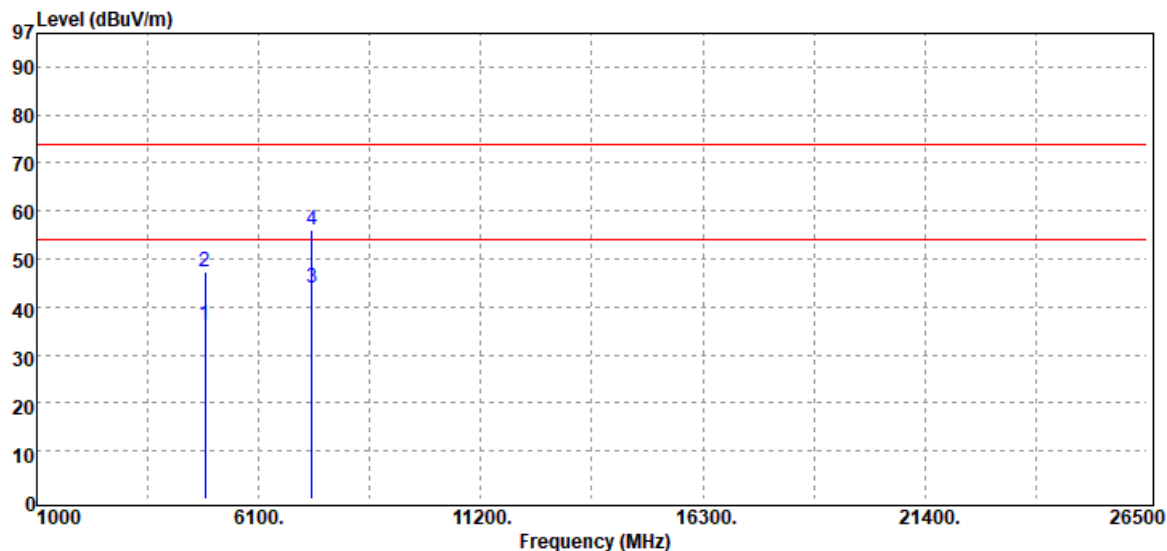
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	31.13	6.69	37.82	54.00	-16.18
4874.00	Peak	41.73	6.69	48.42	74.00	-25.58
7311.00	Average	31.52	14.20	45.72	54.00	-8.28
7311.00	Peak	42.68	14.20	56.88	74.00	-17.12

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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :HORIZONTAL
Engineer :Kane


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	29.67	6.69	36.36	54.00	-17.64
4874.00	Peak	40.63	6.69	47.32	74.00	-26.68
7311.00	Average	29.63	14.20	43.83	54.00	-10.17
7311.00	Peak	41.87	14.20	56.07	74.00	-17.93

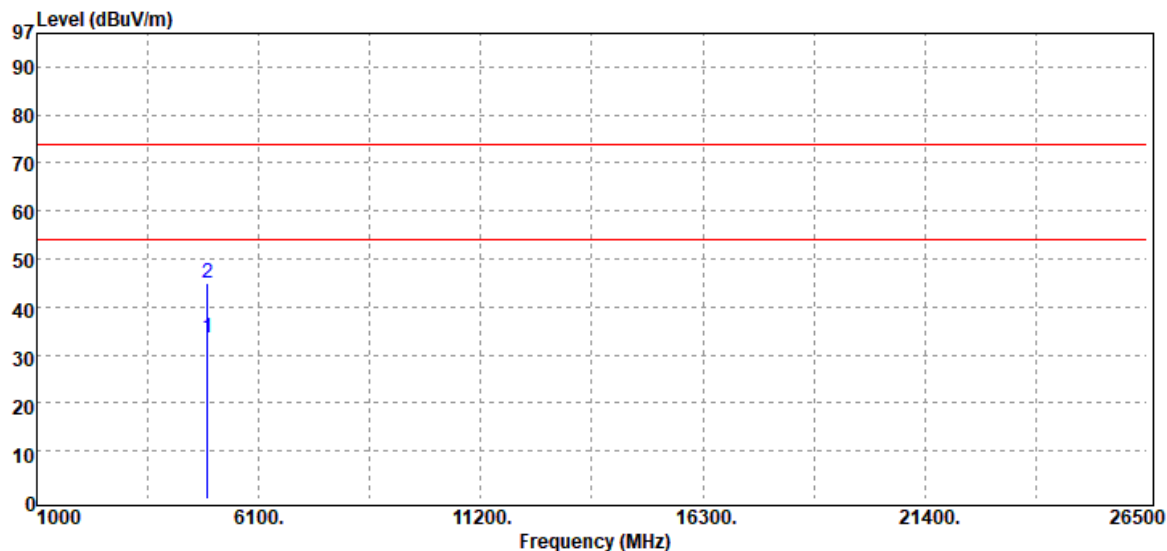
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	26.68	6.85	33.53	54.00	-20.47
4924.00	Peak	38.13	6.85	44.98	74.00	-29.02

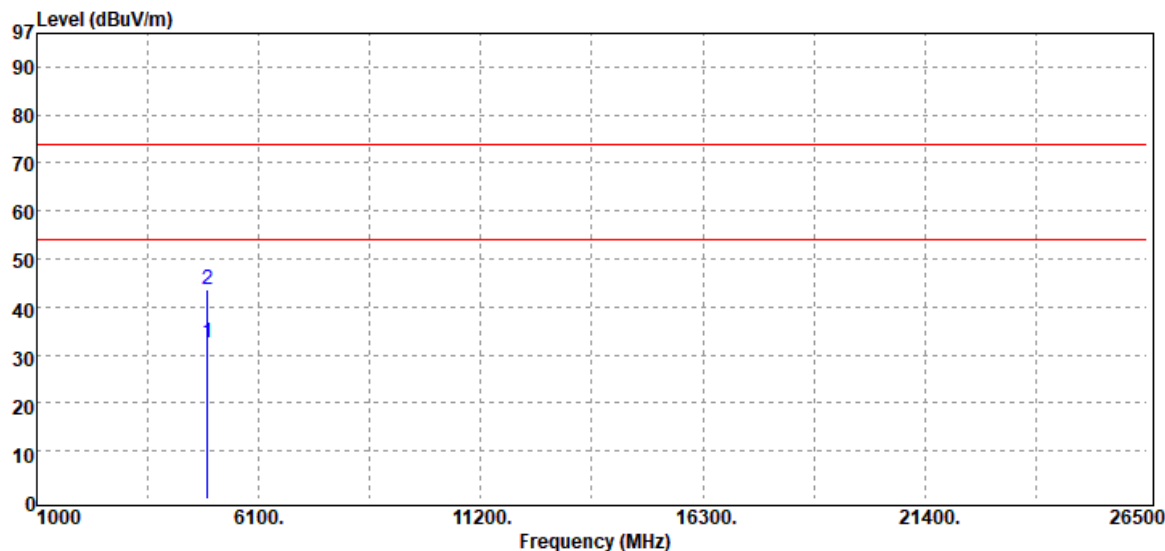
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Report Number :ER/2020/10095
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	25.86	6.85	32.71	54.00	-21.29
4924.00	Peak	36.87	6.85	43.72	74.00	-30.28

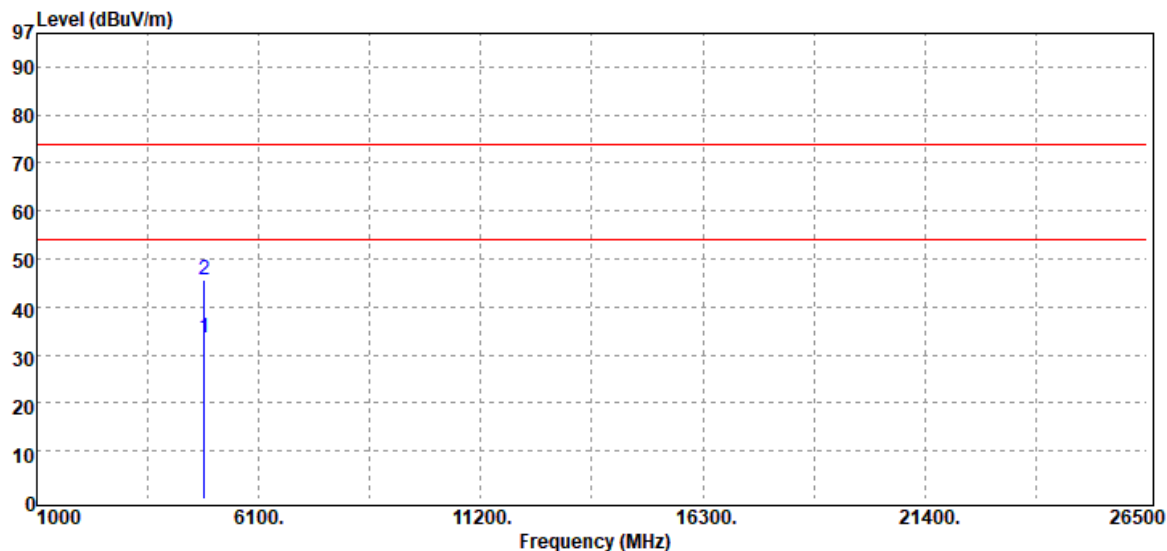
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2422 MHz
Test Mode :Tx CH Low
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4844.00	Average	26.81	6.60	33.41	54.00	-20.59
4844.00	Peak	39.04	6.60	45.64	74.00	-28.36

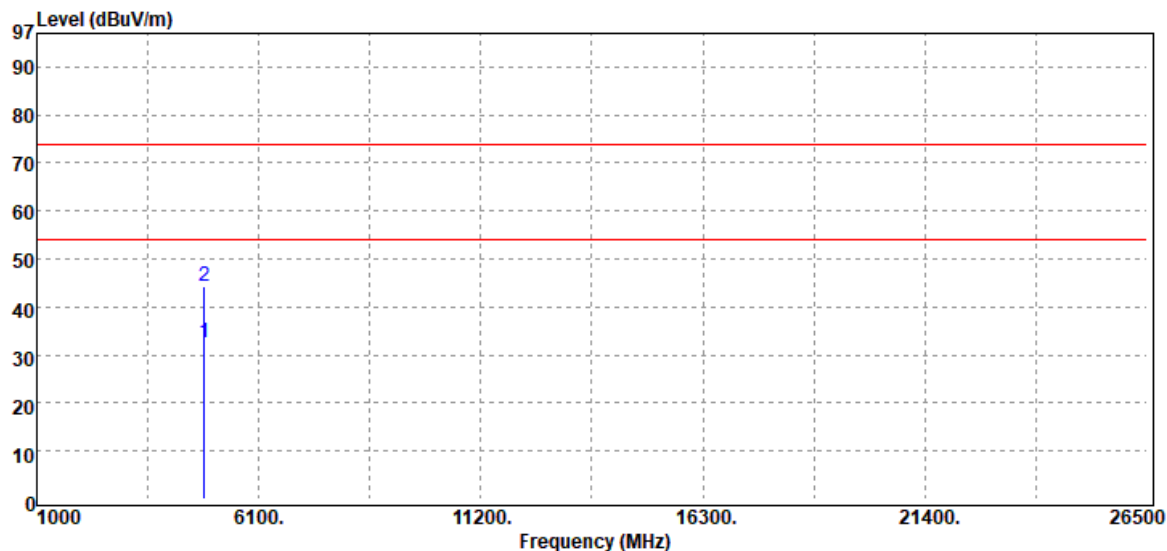
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2422 MHz
Test Mode :Tx CH Low
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :HORIZONTAL
Engineer :Kane



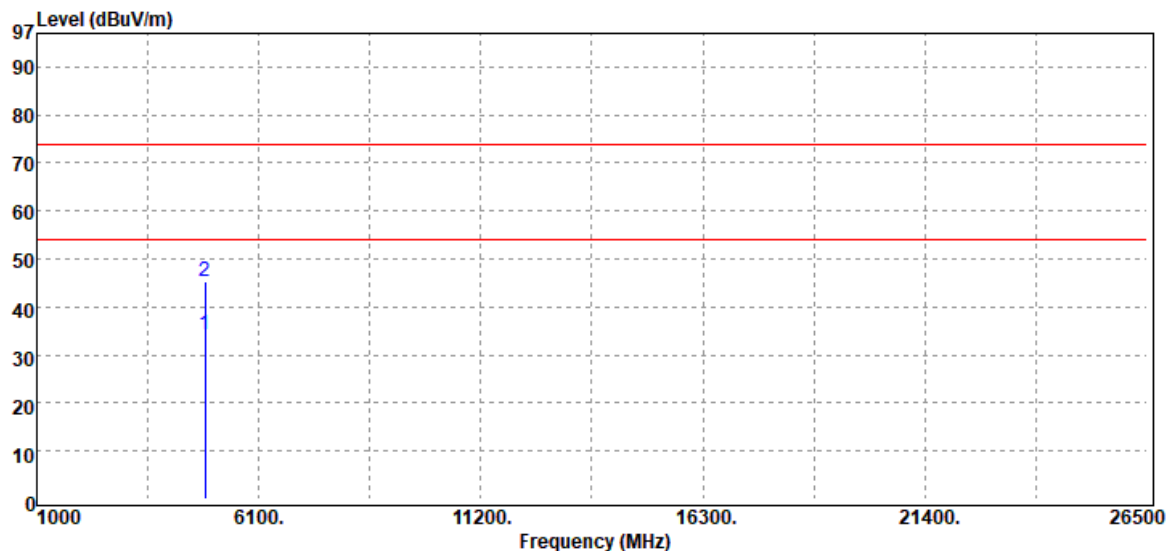
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	Average	26.09	6.60	32.69	54.00	-21.31
4844.00	Peak	37.79	6.60	44.39	74.00	-29.61

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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :VERTICAL
Engineer :Kane


Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	27.67	6.69	34.36	54.00	-19.64
4874.00	Peak	38.73	6.69	45.42	74.00	-28.58

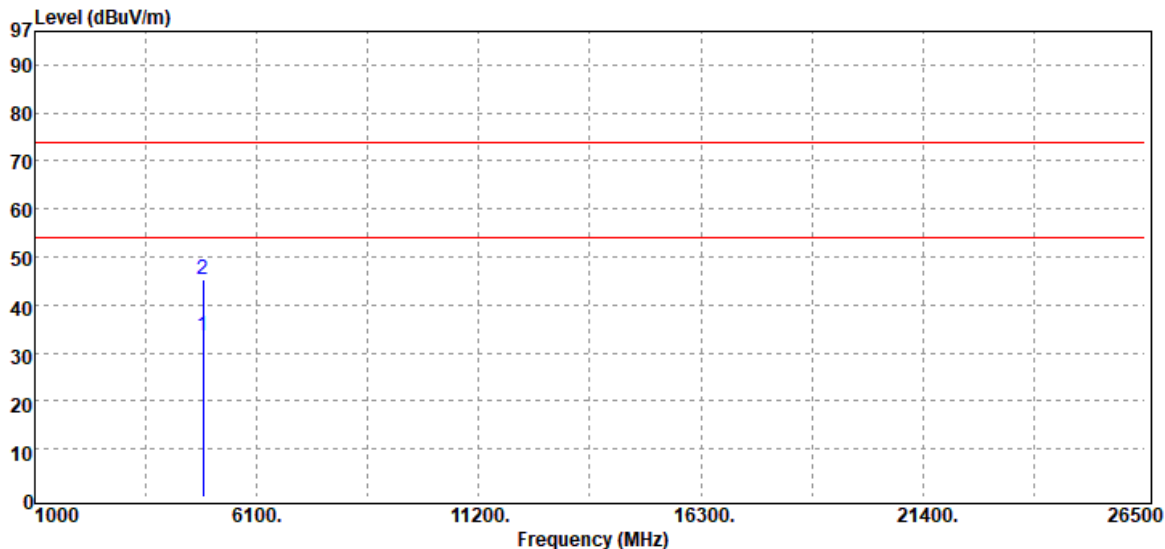
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	26.86	6.69	33.55	54.00	-20.45
4874.00	Peak	38.58	6.69	45.27	74.00	-28.73

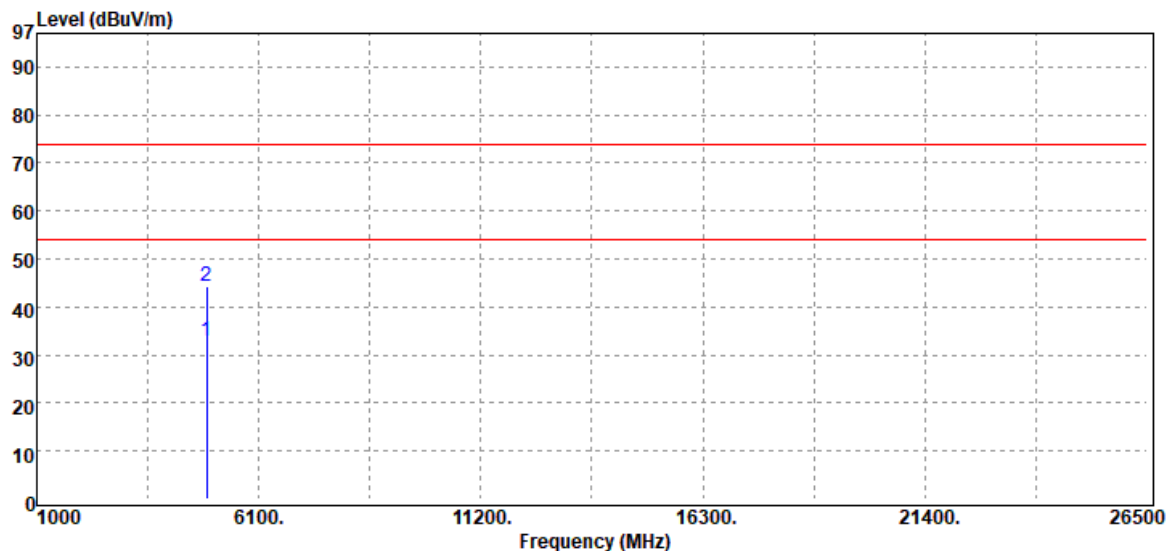
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2452 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.00	Average	26.07	6.78	32.85	54.00	-21.15
4904.00	Peak	37.59	6.78	44.37	74.00	-29.63

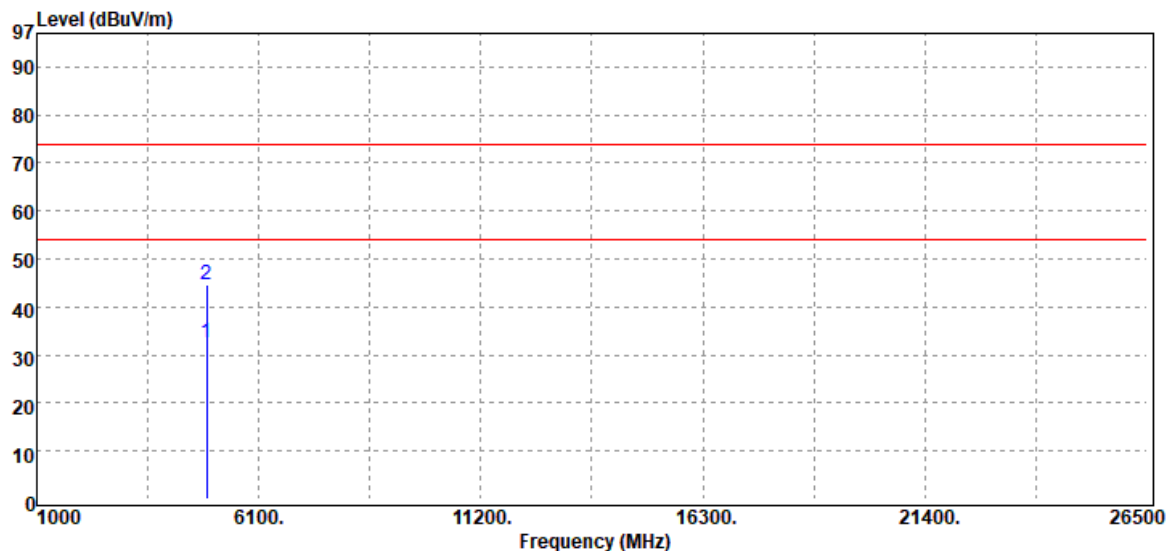
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Report Number :ER/2020/10095
Operation Mode :802.11n40
Test Frequency :2452 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Date :2020-02-17
Temp./Humi. :19.5/42
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.00	Average	25.90	6.78	32.68	54.00	-21.32
4904.00	Peak	37.79	6.78	44.57	74.00	-29.43

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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

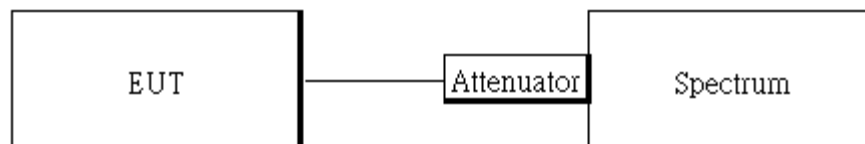
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

12.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/02/2019	05/01/2020
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021

12.3 Test Set-up



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12.4 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz & VBW = 10 kHz.
5. For defining Restricted Band Edge Limit:
Set the RBW = 100kHz & VBW = 300 kHz
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level.
11. 802.11n MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application.

Note:

For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

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12.5 As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1, G_2, \dots, G_N dBi.

(i) If transmit signals are correlated, then Directional gain

$$= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

[Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.].

The antenna gain is greater than 6 dBi, therefore the limit needs to be reduced as below:

Frequency (MHz)	Effective Legacy Gain (dBi)	PSD Limit (dBm/3kHz)
2412~2462	8.02	5.98

12.6 Power spectral density

POWER DENSITY 802.11b_3TX				POWER DENSITY 802.11g_MIMO			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-8.25	5.98	PASS	2412	-10.97	5.98	PASS
2437	-8.06	5.98	PASS	2437	-2.98	5.98	PASS
2462	-8.10	5.98	PASS	2462	-9.10	5.98	PASS
POWER DENSITY 802.11n HT20_MIMO				POWER DENSITY 802.11n HT40_MIMO			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-12.83	5.98	PASS	2422	-16.17	5.98	PASS
2437	-3.74	5.98	PASS	2437	-11.98	5.98	PASS
2462	-10.87	5.98	PASS	2452	-15.51	5.98	PASS

*Refer to next page for plots

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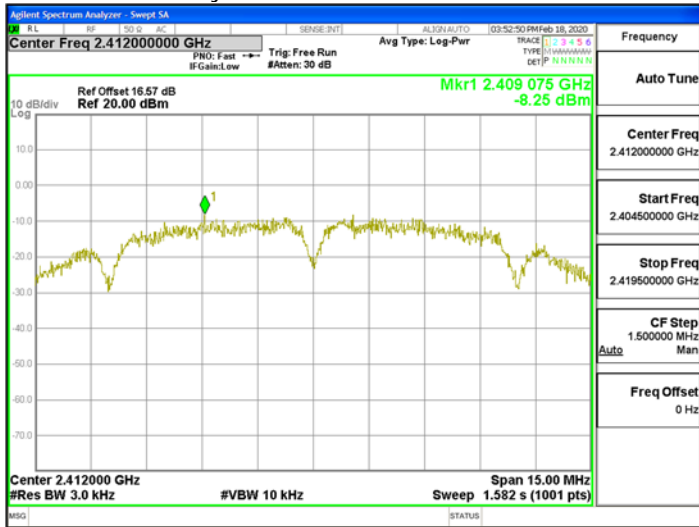
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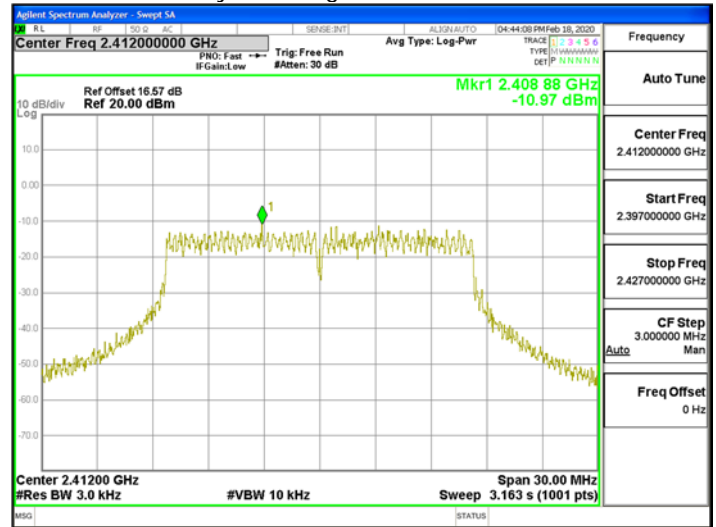
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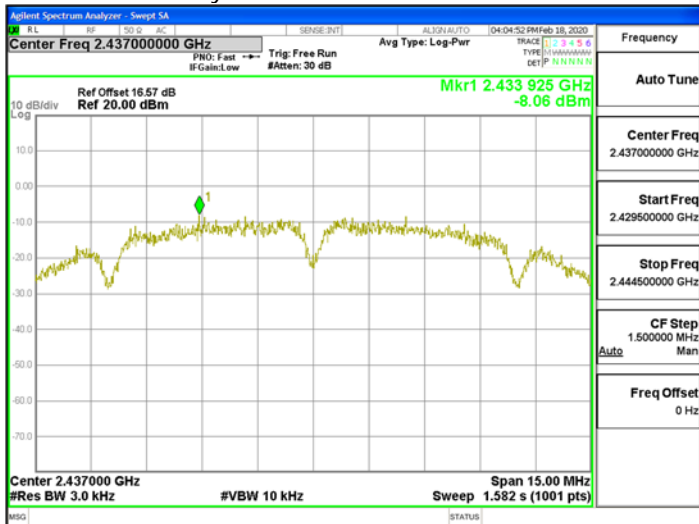
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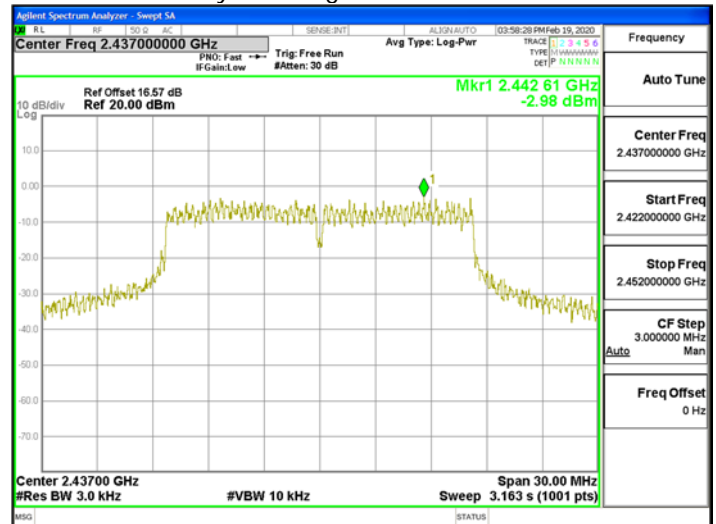
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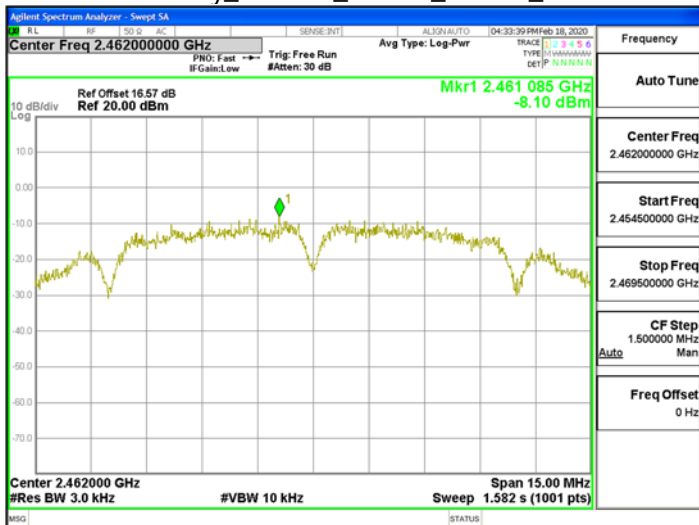
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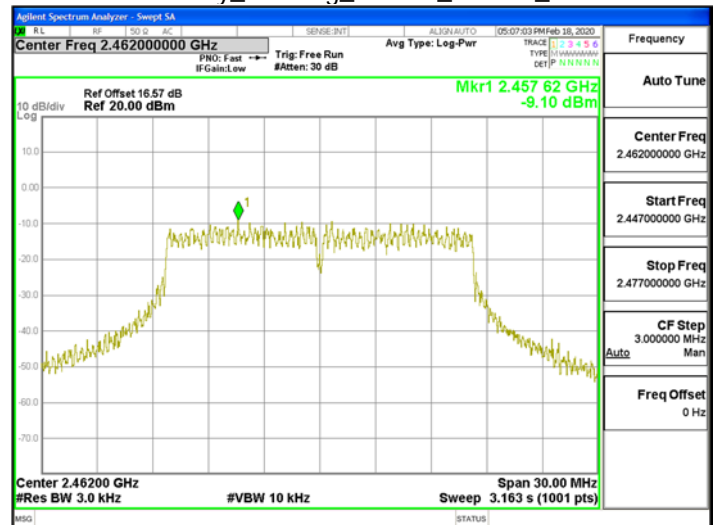
Power Density_802.11g_20MHz_Chain2_2437MHz



Power Density_802.11b_20MHz_Chain2_2462MHz



Power Density_802.11g_20MHz_Chain2_2462MHz



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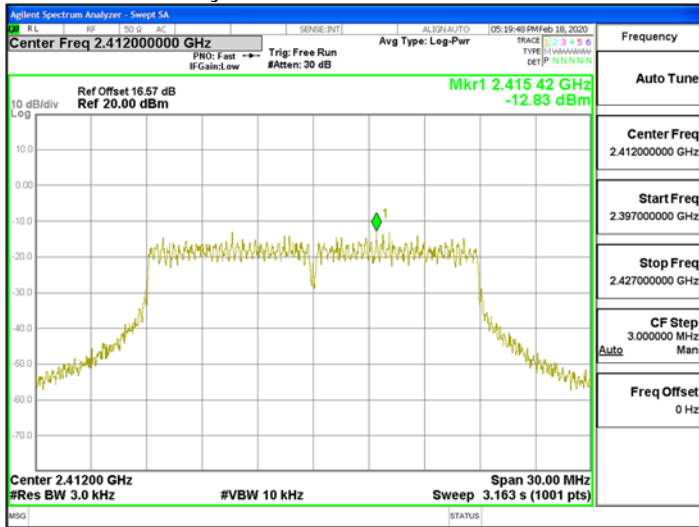
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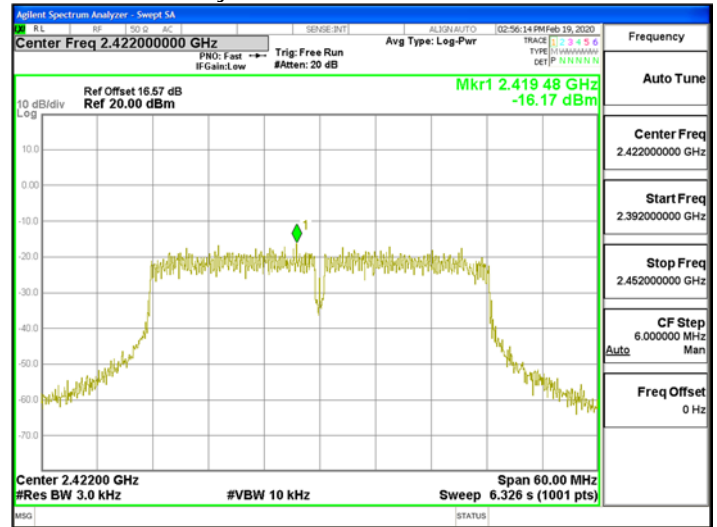
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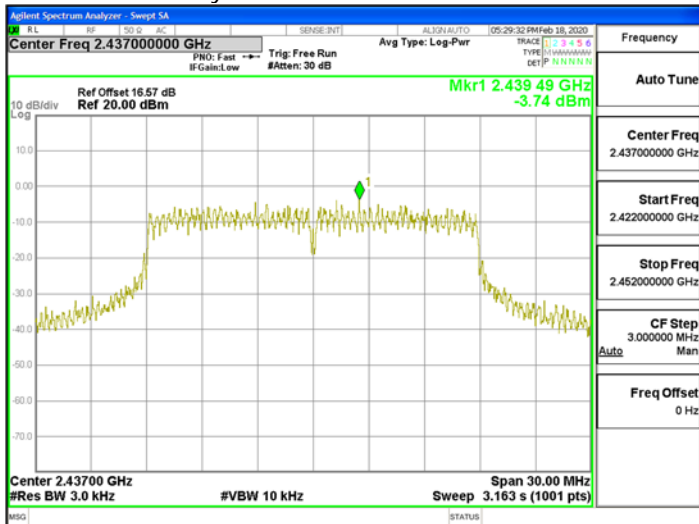
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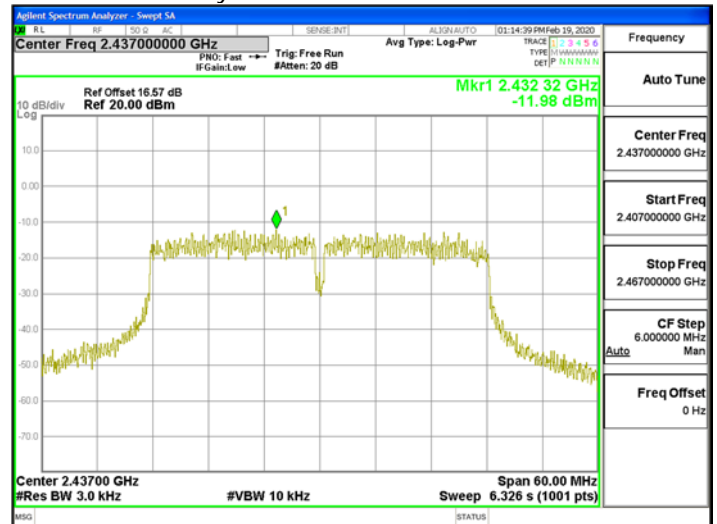
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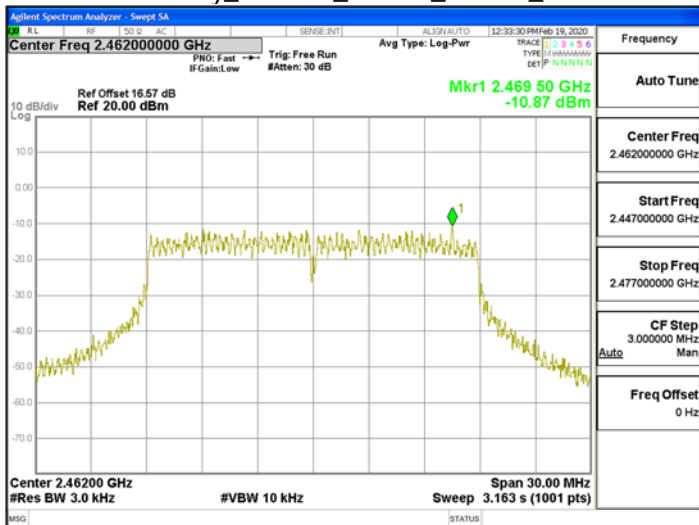
Power Density_802.11n_20MHz_Chain2_2437MHz



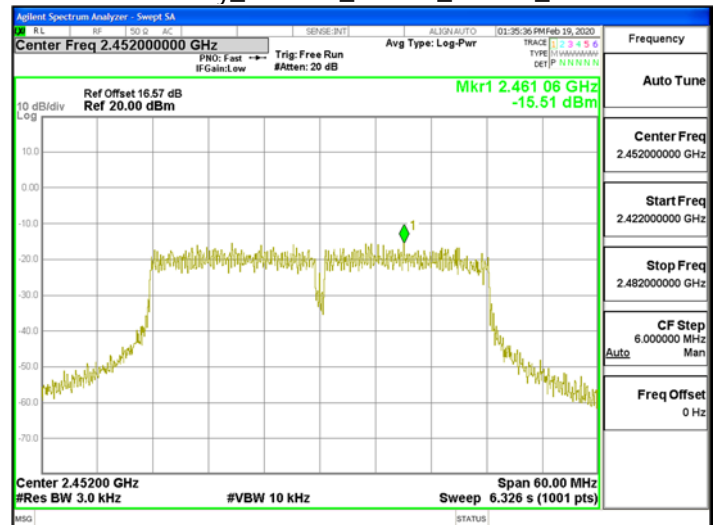
Power Density_802.11n_40MHz_Chain2_2437MHz



Power Density_802.11n_20MHz_Chain2_2462MHz



Power Density_802.11n_40MHz_Chain2_2452MHz



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

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

13.2 Antenna Connected Construction

The antenna is designed with unique RF connector / as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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