

10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Mater device)	17dBm/ MHz
		Fixed point-to-point Acess Ponit	
	√	Mobile and portable clinet device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the Maximum Power Spectral Density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note:

As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi.

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

$$= 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] \text{ dBi}$$

[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 granter than 6 dBi in MIMO mode the limit reduce as below:

	Effective Legacy Gain (dBi)	Limit (dBm / MHz)
UNII-1	8.56	8.44 dBm
UNII-2A	8.56	8.44 dBm
U-NII-2C	10.26	6.74 dBm
U-NII-3	8.2	27.80 dBm

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10.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=500 kHz, VBW \geq 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.
8. 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

10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
DC Power Supply	Anritsu	E3640A	MY52410006	2017/11/28	2018/08/28
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	2018/05/03	2018/08/28
Temperature Chamber	TERCHY	MHG-120LF	911009	2018/05/18	2018/08/28
Attenuator	Mini-Circuit	BW-S10W2+	2	2017/11/29	2018/11/28
DC Block	Mini-Circuits	BLK-18-S+	1	2018/01/04	2019/01/03
Coaxial Cables	N/A	WK CE Cable	N/A	2017/12/20	2018/12/19
Notebook	Lenovo	L420	LR-7HXZA	2017/12/29	2018/12/28

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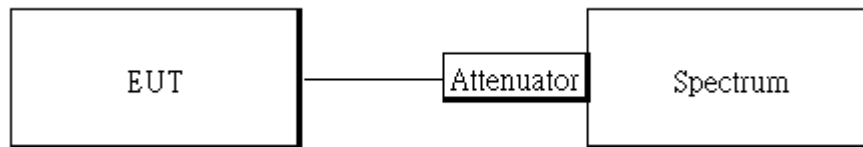
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10.4 Test Set-up



10.5 Measurement Result

POWER DENSITY 802.11a MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	5.50	14.70	0.11	5.61	8.444	-2.83
5220	7.98	14.70	0.11	8.09	8.444	-0.35
5240	7.83	14.70	0.11	7.94	8.444	-0.50
5260	7.16	14.70	0.11	7.27	8.444	-1.17
5300	7.44	14.70	0.11	7.55	8.444	-0.89
5320	6.10	14.70	0.11	6.21	8.444	-2.23
5500	3.57	14.70	0.11	3.68	6.738	-3.06
5580	6.20	14.70	0.11	6.31	6.738	-0.43
5700	3.54	14.70	0.11	3.65	6.738	-3.09
5720 (U-NII 2C)	6.38	14.70	0.11	6.49	6.738	-0.25
5720 (U-NII 3)	5.14	14.70	0.11	5.26	27.8	-22.55
5745	19.18	14.70	0.11	19.18	27.8	-8.62
5785	19.21	14.70	0.11	19.21	27.8	-8.59
5825	19.00	14.70	0.11	19.00	27.8	-8.80
POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	5.49	14.70	0.23	5.72	8.4438	-2.73
5220	6.75	14.70	0.23	6.98	8.4438	-1.47
5240	6.87	14.70	0.23	7.10	8.4438	-1.35
5260	6.74	14.70	0.23	6.97	8.4438	-1.48
5300	6.46	14.70	0.23	6.69	8.4438	-1.76
5320	4.94	14.70	0.23	5.17	8.4438	-3.28
5500	3.10	14.70	0.23	3.33	6.7384	-3.41
5580	5.29	14.70	0.23	5.52	6.7384	-1.22
5700	2.92	14.70	0.23	3.15	6.7384	-3.59
5720 (U-NII 2C)	6.08	14.70	0.23	6.31	6.7384	-0.43
5720 (U-NII 3)	4.10	14.70	0.23	4.32	27.802	-23.48
5745	18.55	14.70	0.23	18.55	27.802	-9.25
5785	18.79	14.70	0.23	18.79	27.802	-9.01
5825	18.56	14.70	0.23	18.56	27.802	-9.24

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POWER DENSITY 802.11n HT40 MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-3.92	14.70	0.42	-3.50	8.4438	-11.95
5230	1.89	14.70	0.42	2.31	8.4438	-6.14
5270	0.49	14.70	0.42	0.91	8.4438	-7.54
5310	-4.03	14.70	0.42	-3.61	8.4438	-12.06
5510	-5.31	14.70	0.42	-4.89	6.7384	-11.63
5550	-0.01	14.70	0.42	0.41	6.7384	-6.33
5670	-1.16	14.70	0.42	-0.74	6.7384	-7.48
5710 (U-NII 2C)	3.18	14.70	0.42	3.60	6.7384	-3.14
5710 (U-NII 3)	-1.86	14.70	0.42	-1.44	27.802	-29.25
5755	15.16	14.70	0.42	15.16	27.802	-12.64
5795	14.99	14.70	0.42	14.99	27.802	-12.81
POWER DENSITY 802.11ac VHT80 MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-15.89	14.70	0.45	-15.44	8.4438	-23.88
5290	-17.93	14.70	0.45	-17.48	8.4438	-25.92
5530	-17.43	14.70	0.45	-16.98	6.7384	-23.72
5610	-12.74	14.70	0.45	-12.29	6.7384	-19.03
5690 (U-NII 2C)	2.78	14.70	0.45	3.23	6.7384	-3.51
5690 (U-NII 3)	-0.36	14.70	0.45	0.09	27.802	-27.71
5775	6.66	14.70	0.45	6.66	27.802	-21.14

Note:

Cable Loss=

11.7 dB

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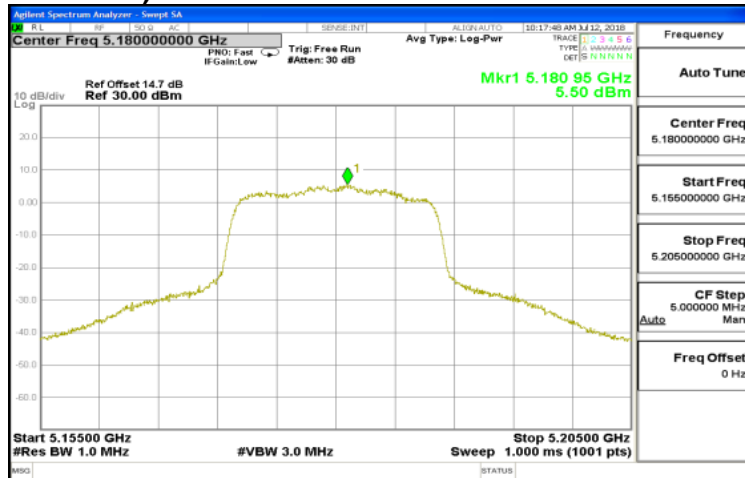
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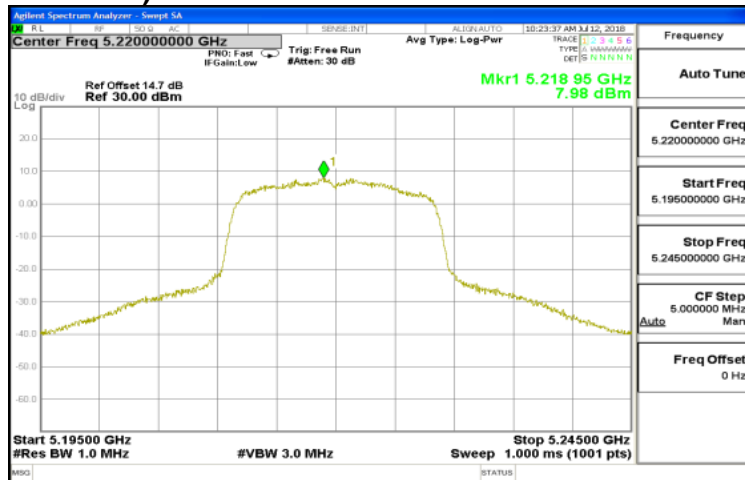
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802.11a 5150~5250 MHz

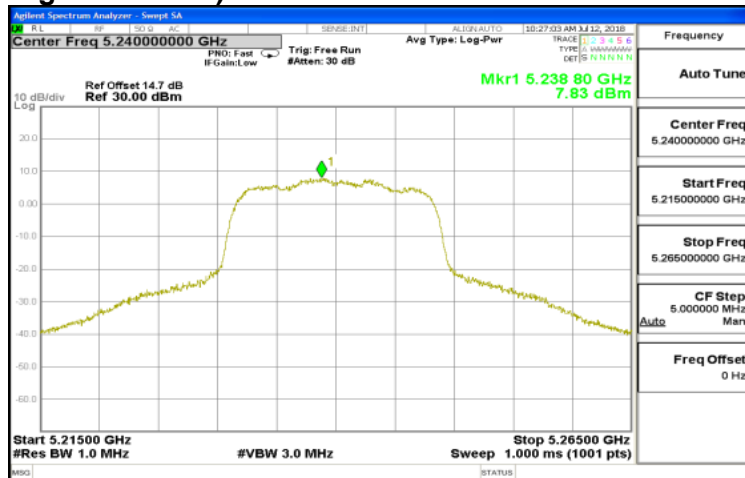
Maximum Power Spectral Density Data Plot (CH Low 5180 MHz)



Maximum Power Spectral Density Data Plot (CH Mid 5220 MHz)

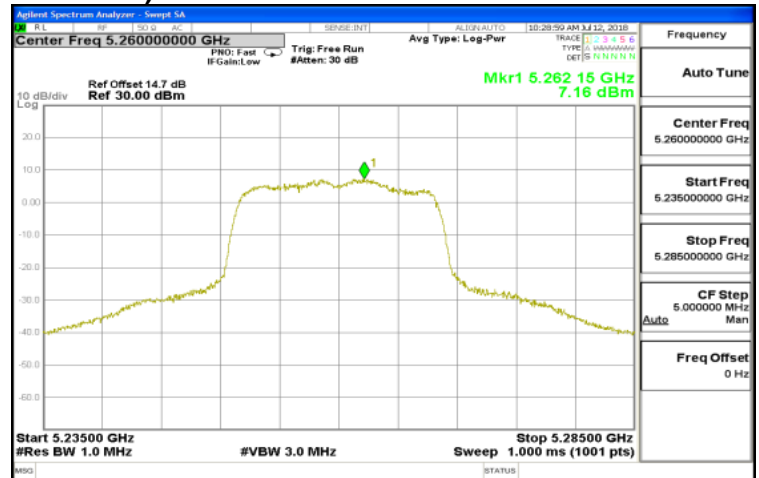


Maximum Power Spectral Density Data Plot (CH High 5240 MHz)

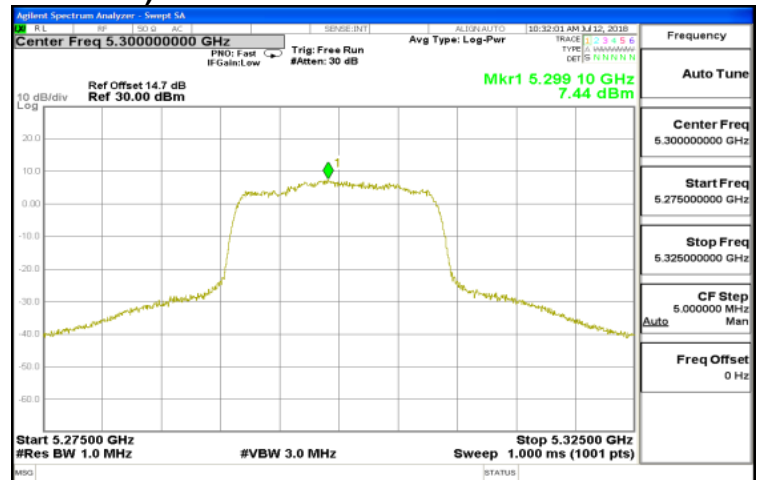


802.11a 5250~5350 MHz

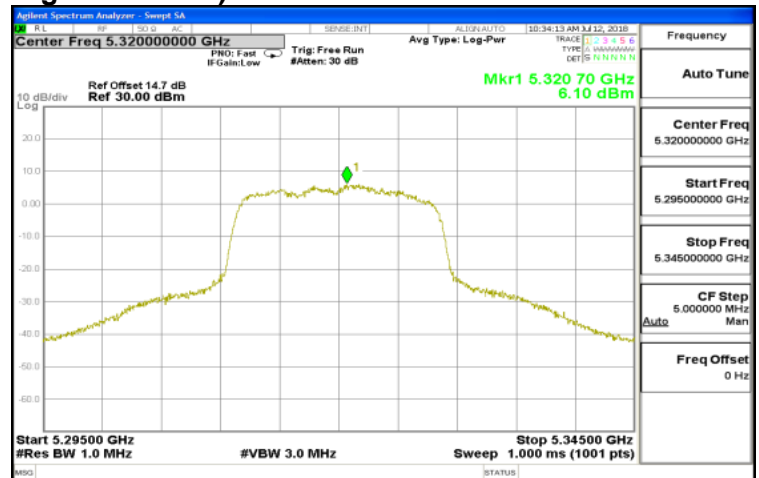
Maximum Power Spectral Density Data Plot (CH Low 5260 MHz)



Maximum Power Spectral Density Data Plot (CH Mid 5300 MHz)



Maximum Power Spectral Density Data Plot (CH High 5320 MHz)



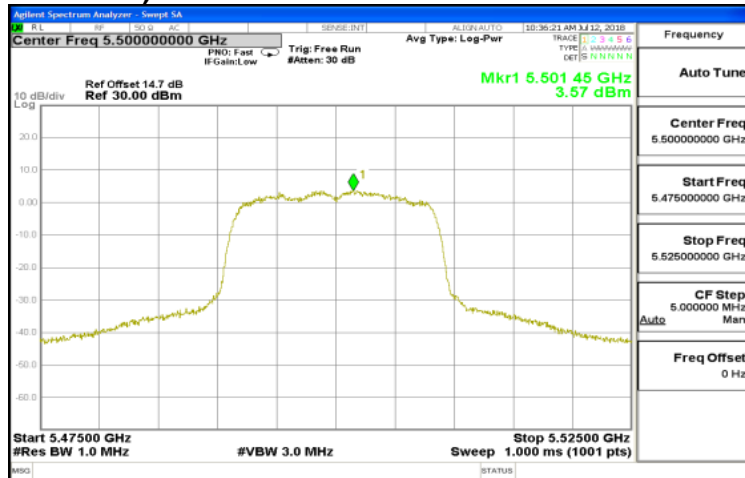
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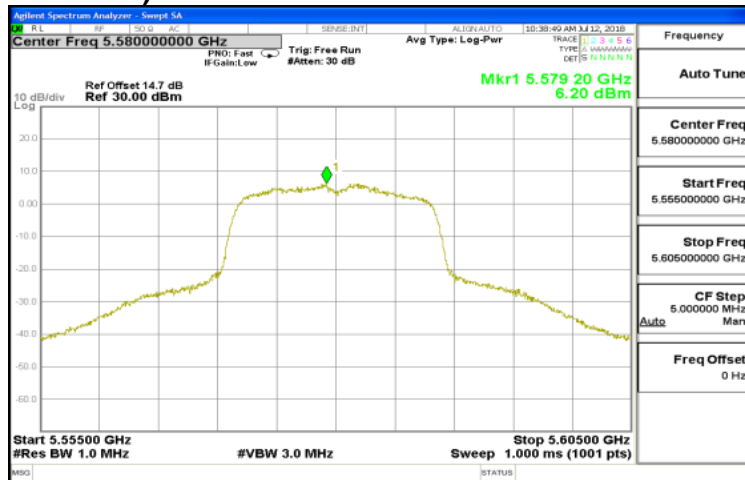
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802.11a 5470~5725 MHz

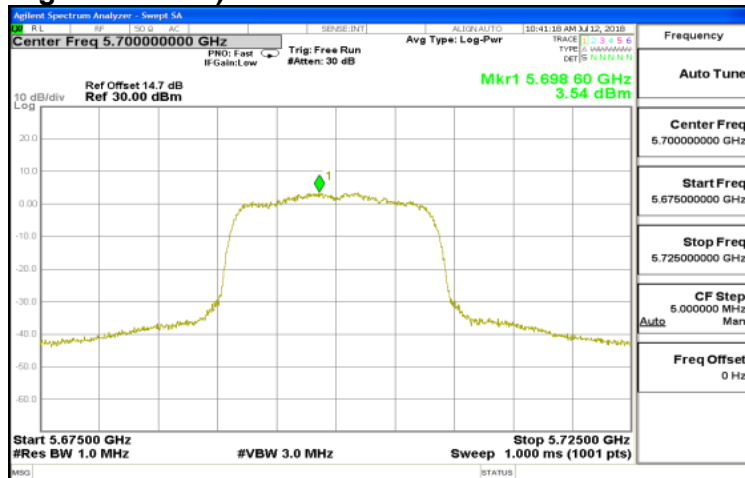
Maximum Power Spectral Density Data Plot (CH Low 5500 MHz)



Maximum Power Spectral Density Data Plot (CH Mid 5580 MHz)

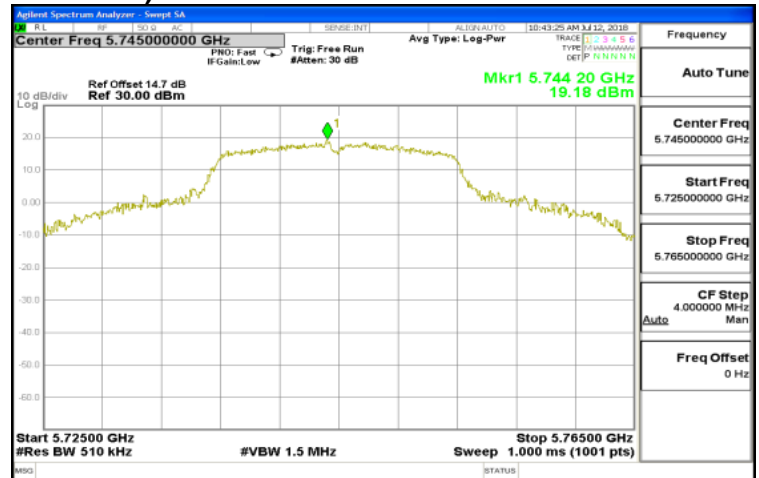


Maximum Power Spectral Density Data Plot (CH High 5700 MHz)

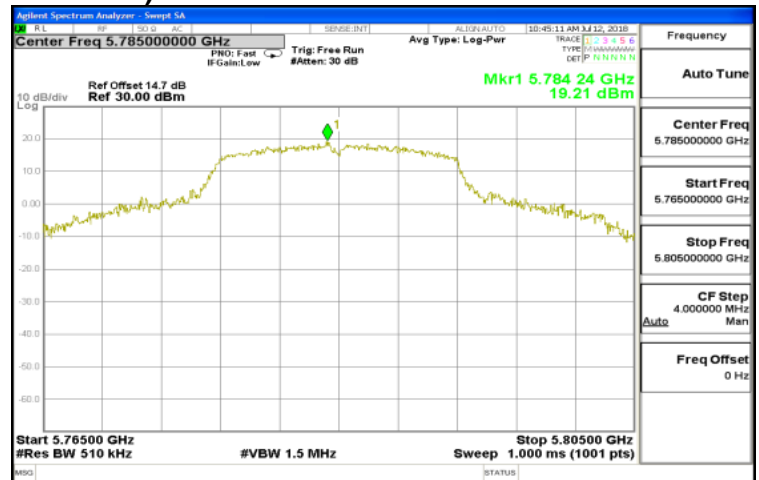


802.11a 5725~5850 MHz

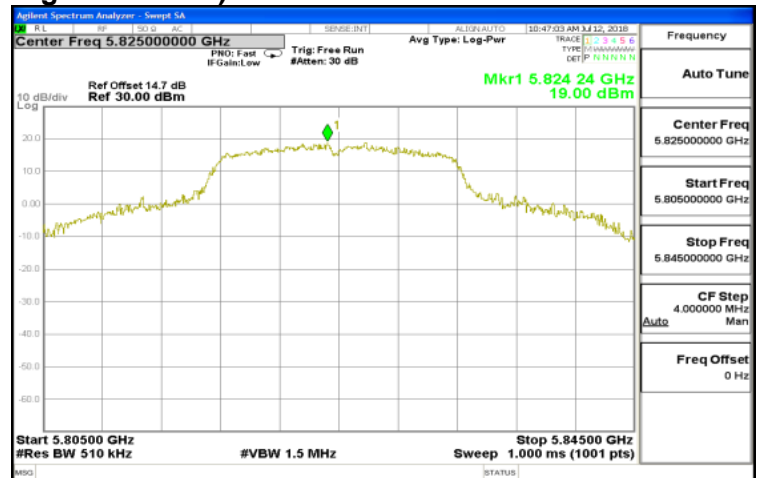
Maximum Power Spectral Density Data Plot (CH Low 5745 MHz)



Maximum Power Spectral Density Data Plot (CH Mid 5785 MHz)



Maximum Power Spectral Density Data Plot (CH High 5825 MHz)



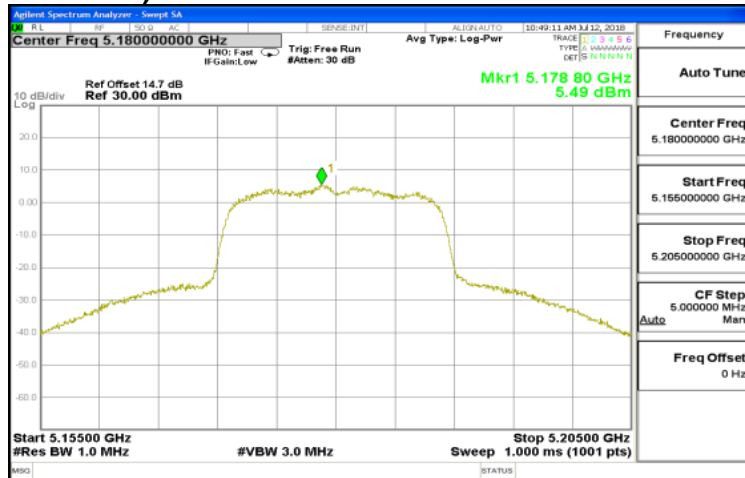
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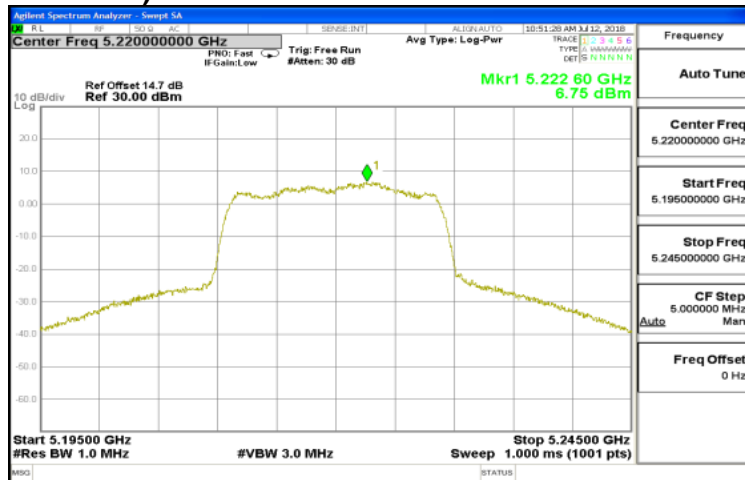
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802.11n HT20, 5150~5250 MHz

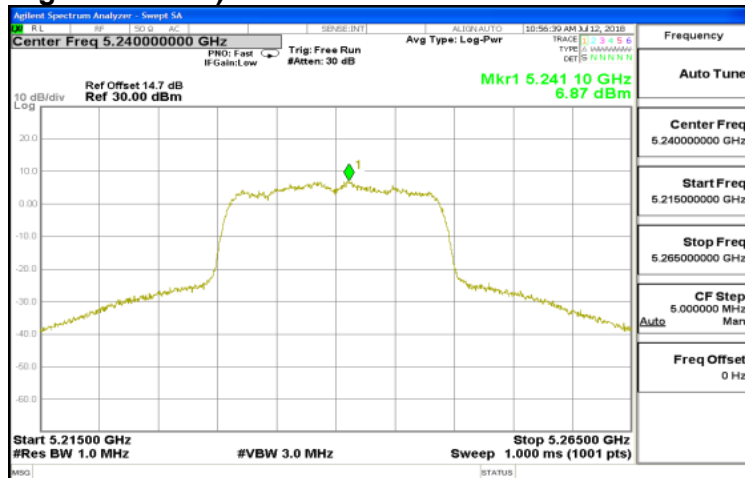
Maximum Power Spectral Density Data Plot (CH Low 5180 MHz)



Maximum Power Spectral Density Data Plot (CH Mid 5220 MHz)

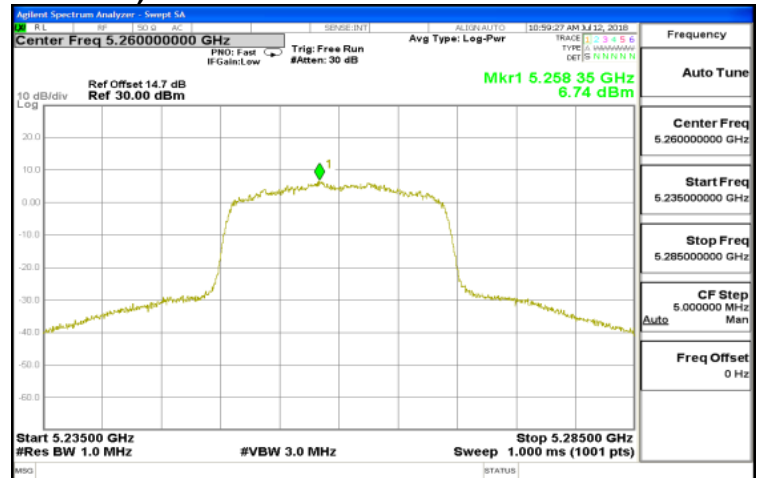


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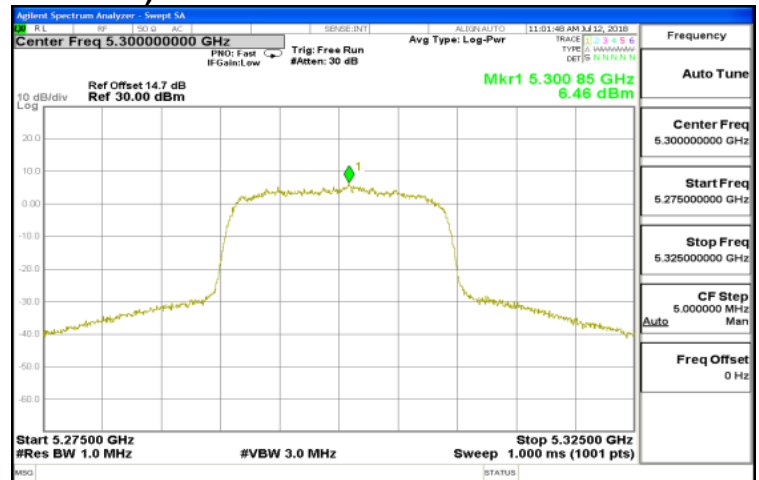


802.11n HT20, 5250~5350 MHz

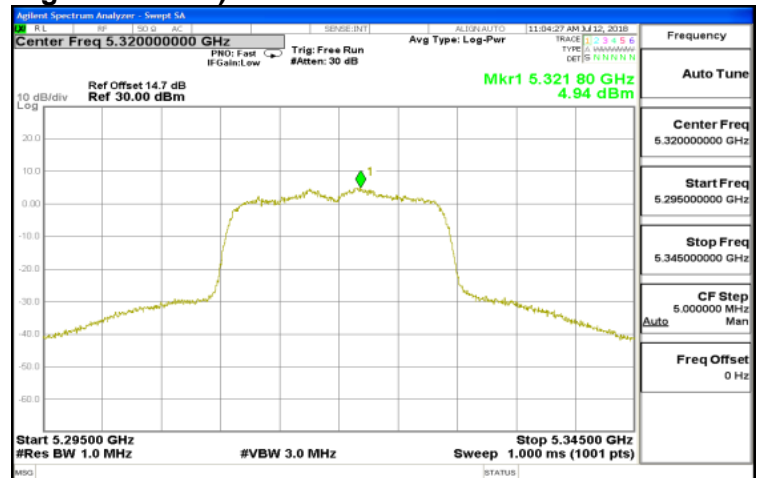
Maximum Power Spectral Density Data Plot (CH Low 5260MHz)



Maximum Power Spectral Density Data Plot (CH Mid 5300 MHz)



Maximum Power Spectral Density Data Plot (CH High 5320 MHz)



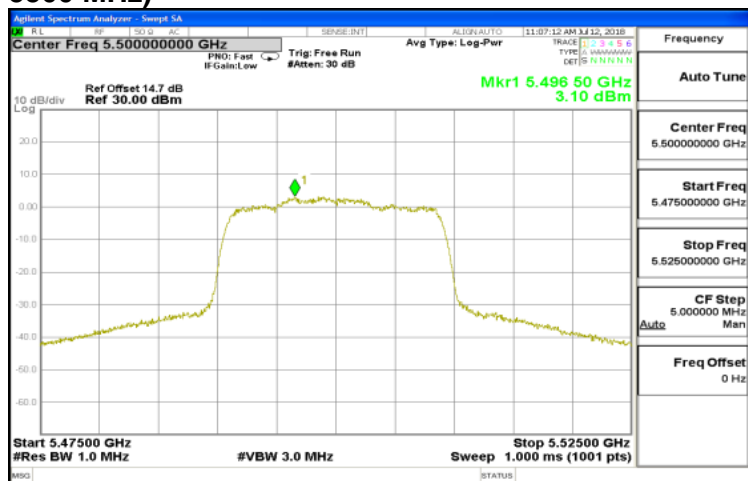
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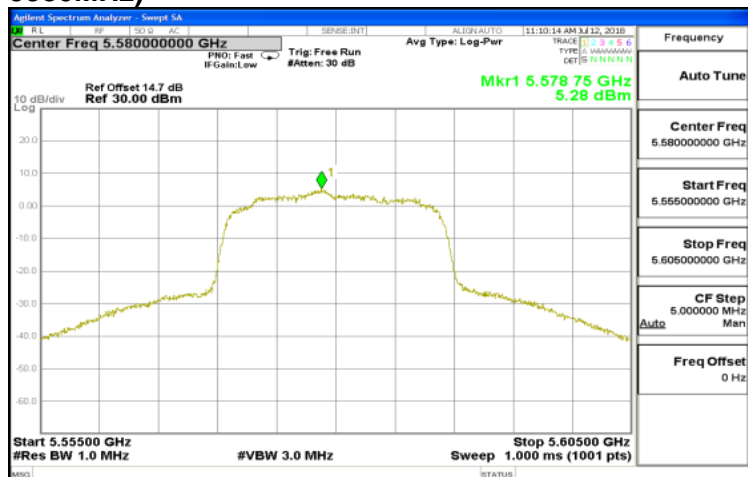
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802.11n HT20, 5470~5725 MHz

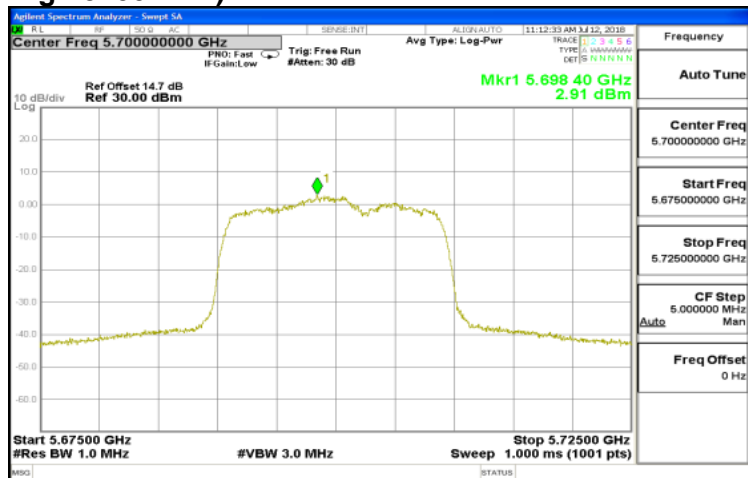
Maximum Power Spectral Density Data Plot (CH Low 5500 MHz)



Maximum Power Spectral Density Data Plot (CH Mid 5580MHz)

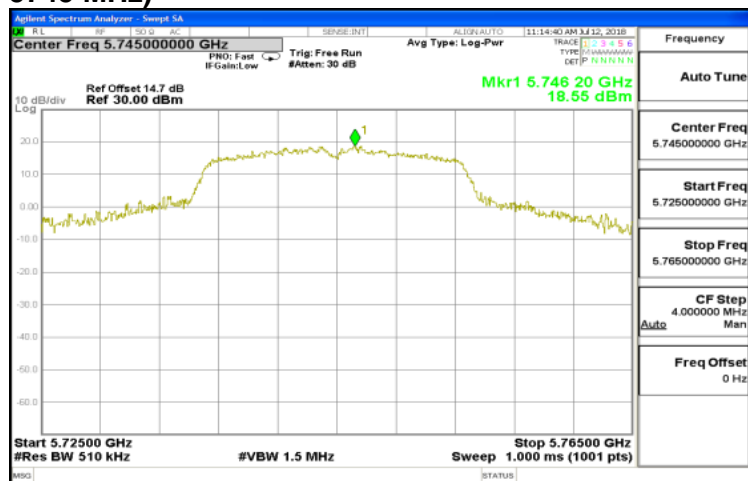


Maximum Power Spectral Density Data Plot (CH High 5700 MHz)

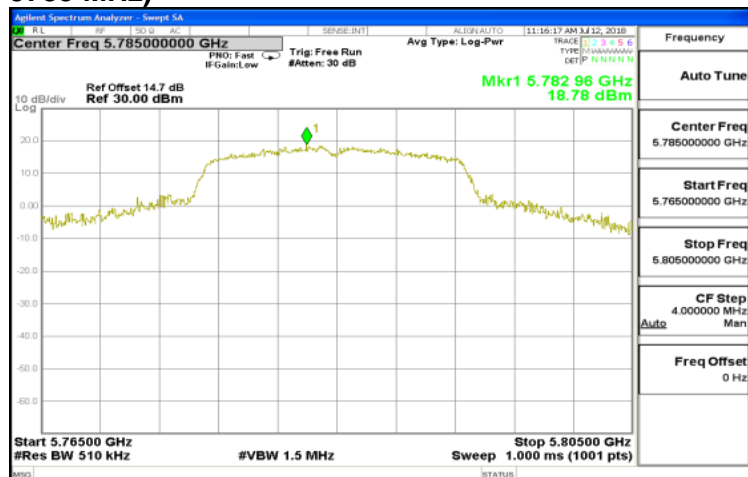


802.11n HT20, 5725~5850 MHz

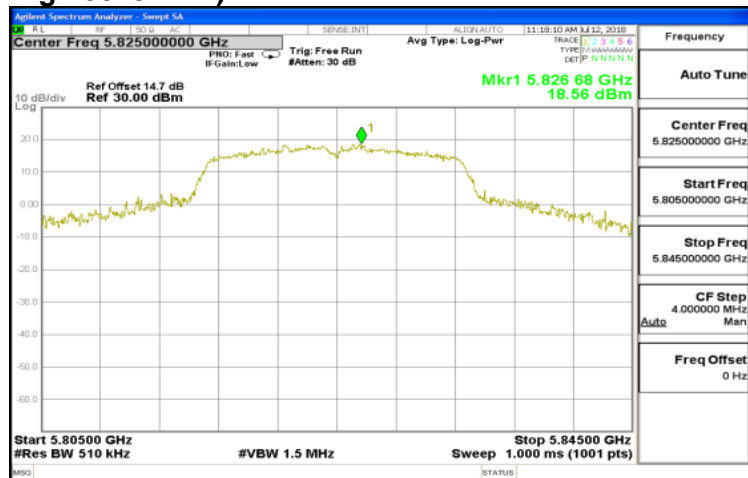
Maximum Power Spectral Density Data Plot (CH Low 5745 MHz)



Maximum Power Spectral Density Data Plot (CH Mid 5785 MHz)



Maximum Power Spectral Density Data Plot (CH High 5825 MHz)



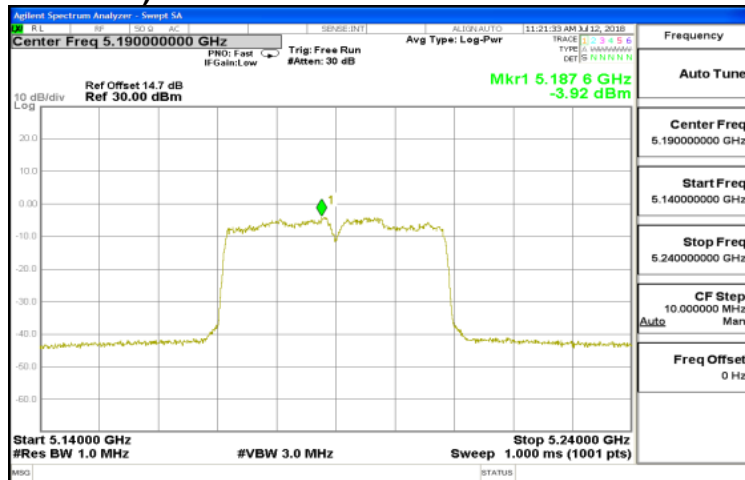
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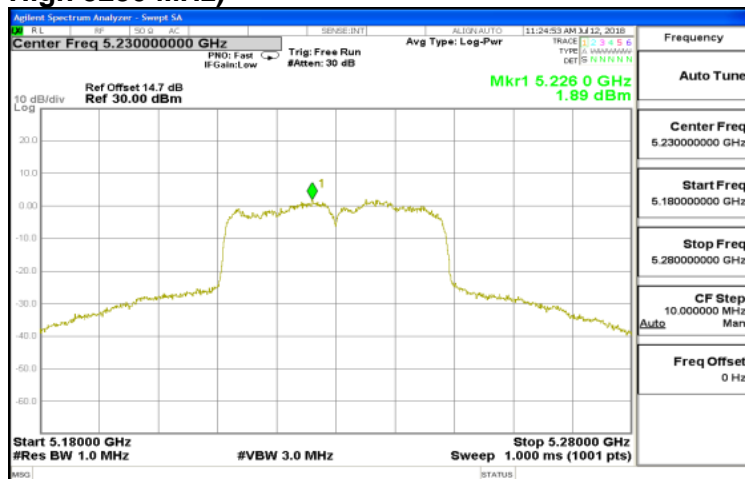
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802.11n HT40, 5150~5250 MHz

Maximum Power Spectral Density Data Plot (CH Low 5190 MHz)

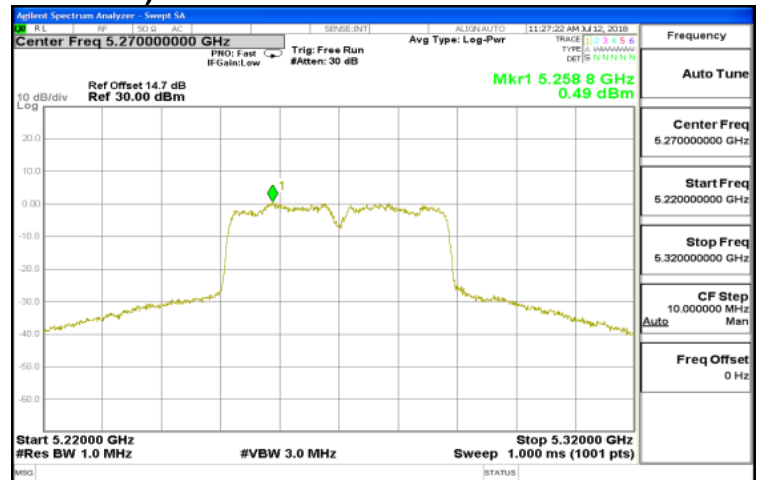


Maximum Power Spectral Density Data Plot (CH High 5230 MHz)

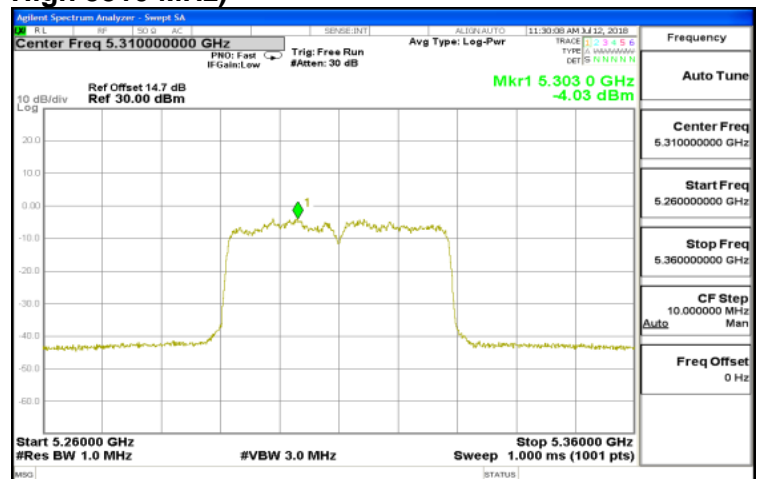


802.11n HT40, 5250~5350 MHz

Maximum Power Spectral Density Data Plot (CH Low 5270 MHz)



Maximum Power Spectral Density Data Plot (CH High 5310 MHz)



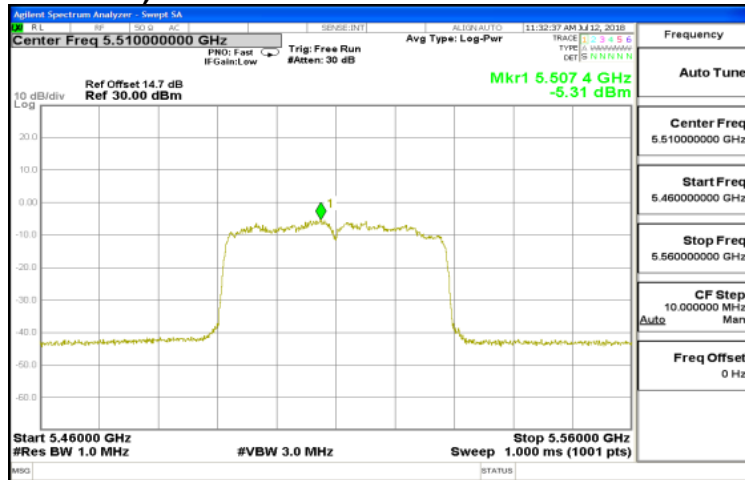
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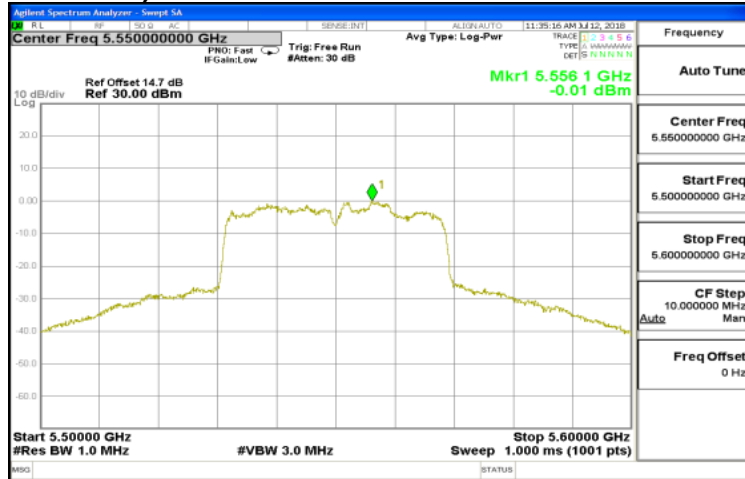
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802.11n HT40, 5470~5725 MHz

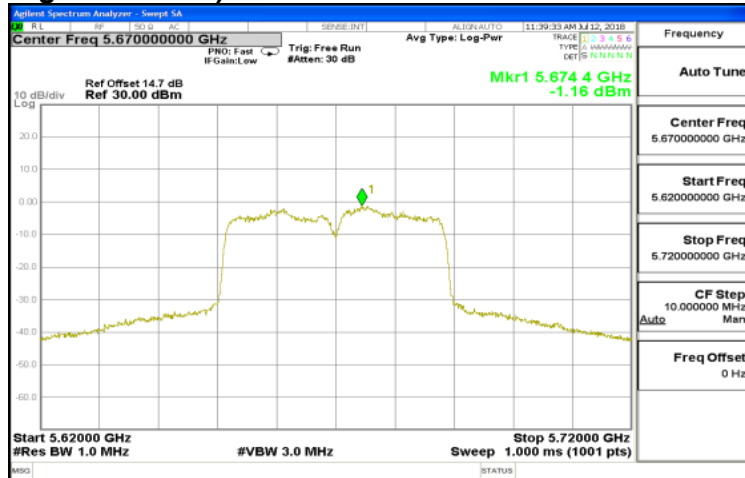
Maximum Power Spectral Density Data Plot (CH Low 5510 MHz)



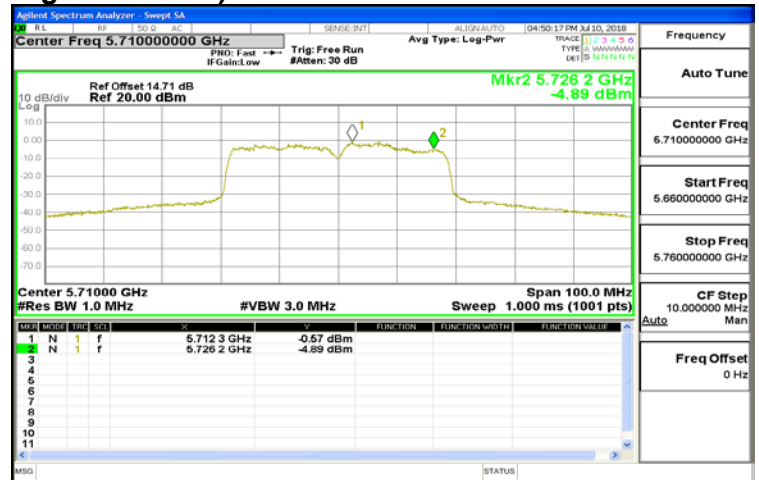
Maximum Power Spectral Density Data Plot (CH Mid 5550 MHz)



Maximum Power Spectral Density Data Plot (CH High 5670 MHz)



Maximum Power Spectral Density Data Plot (CH High 5710 MHz)

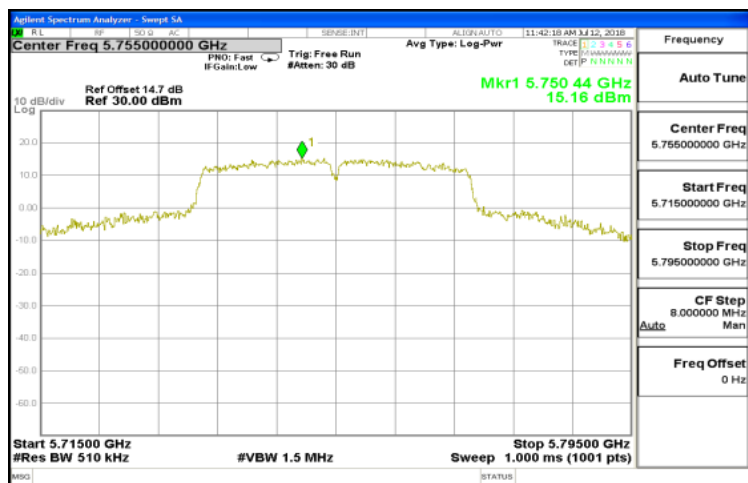


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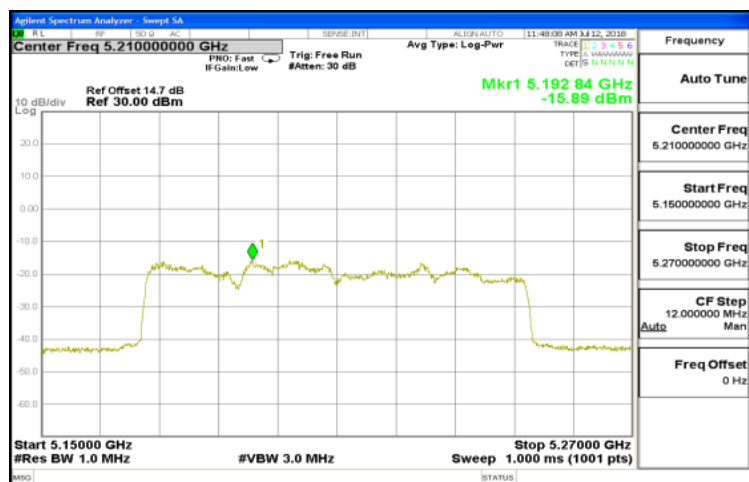
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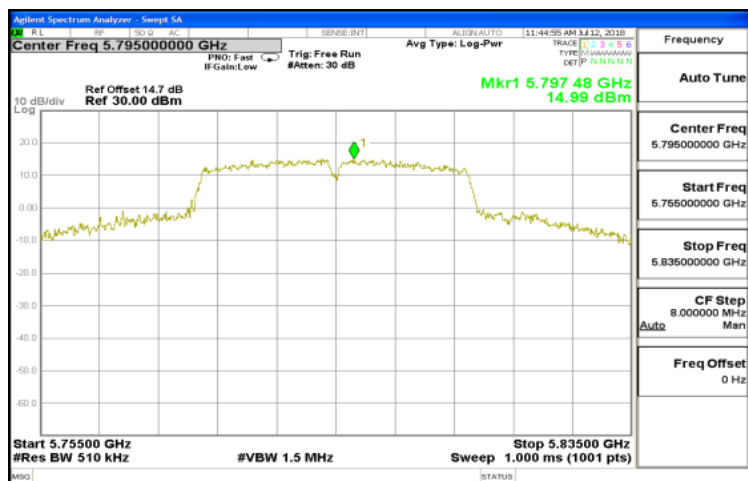
802.11n HT40, 5725~5850 MHz
Maximum Power Spectral Density Data Plot (CH Low 5755 MHz)



802.11ac VHT80, 5150~5250 MHz
Maximum Power Spectral Density Data Plot (CH Mid 5210 MHz)



Maximum Power Spectral Density Data Plot (CH High 5795 MHz)



802.11ac VHT80, 5250~5350 MHz
Maximum Power Spectral Density Data Plot (CH Mid 5290 MHz)

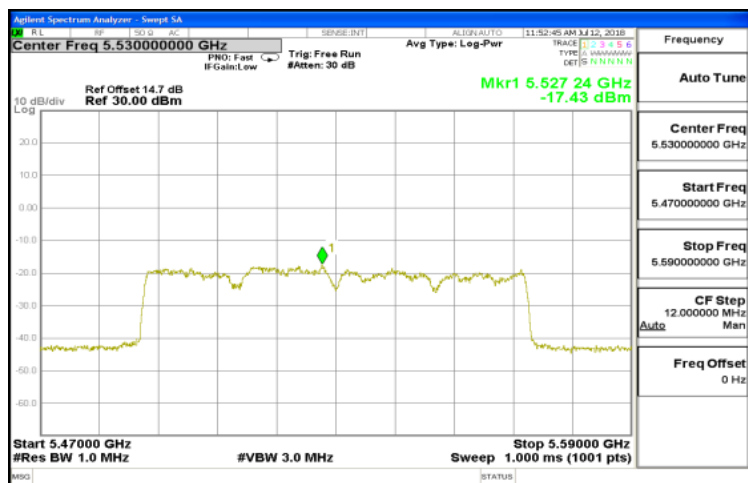


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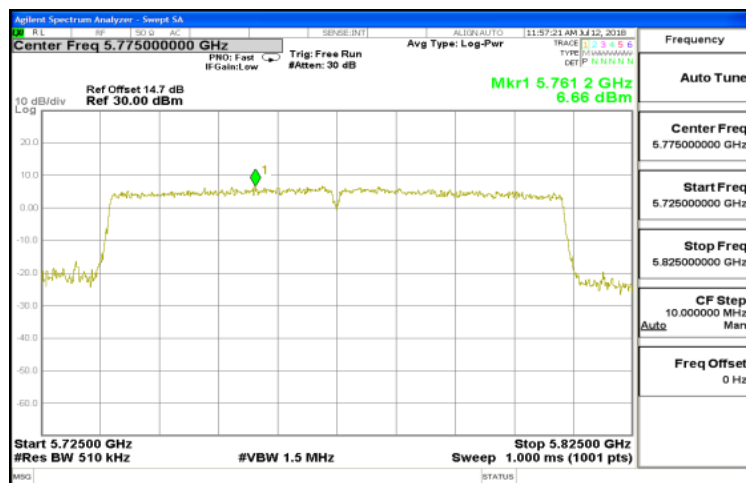
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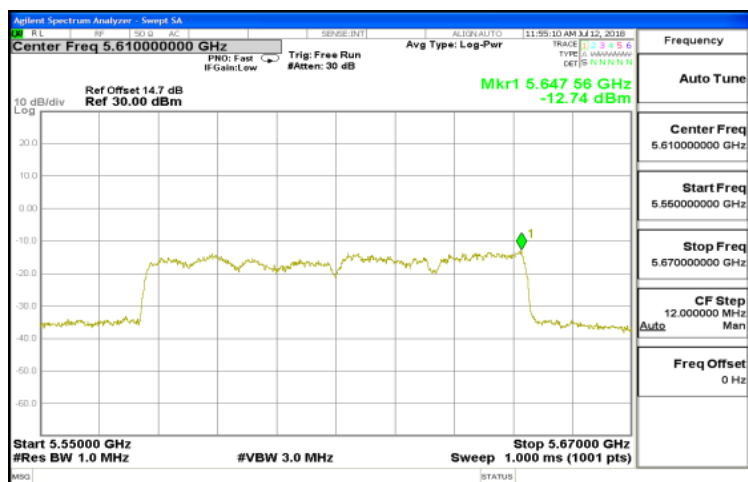
802.11ac VHT80, 5470~5725 MHz
Maximum Power Spectral Density Data Plot (CH Low 5530 MHz)



802.11ac VHT80, 5725~5850 MHz
Maximum Power Spectral Density Data Plot (CH Mid 5775 MHz)



802.11ac VHT80, 5470~5725 MHz
Maximum Power Spectral Density Data Plot (CH High 5610 MHz)



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV 54 (dBμV/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

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Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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

SGS SAC-III					
Name of Equip- ment	Manufacturer	Model	Serial Num- ber	Calibration Date	Calibration Due
Bi-log Antenna	SCHWAZBECK	VULB9168	378	2017/12/29	2018/12/28
Horn Antenna	Schwarzbeck	BBHA9120D	1441	2017/08/04	2018/08/03
Horn Antenna	Schwarzbeck	BBHA9170	184	2017/12/12	2018/12/11
Loop Antenna	ETS.LINDGREN	6502	148045	2017/09/26	2018/09/25
3m Site NSA	SGS	966 chamber	N/A	2018/01/02	2019/01/01
Spectrum Analyzer	Agilent	E4446A	MY51100003	2018/05/15	2018/08/28
EMI Test Receiver	R&S	ESCI7	100335	2018/02/02	2018/08/28
Pre-Amplifier	HP	8449B	3008A00578	2017/11/29	2018/11/28
Pre-Amplifier	HP	8447D	2944A07676	2018/01/04	2019/01/03
Pre-Amplifier	EMC Instruments	EMC184045B	980135	2017/12/29	2018/12/28
Attenuator	Mini-Circuit	BW-S10W2+	2	2017/11/29	2018/11/28
Filter 5150-5350 MHz	Micro-Tronics	BRM50703	1	2017/08/24	2018/08/23
Filter 5470-5725 MHz	Micro-Tronics	BRM50704	1	2017/08/29	2018/08/28
Filter 5725-5875 MHz	Micro-Tronics	BRM50705	1	2017/08/19	2018/08/18
Low Loss Cable	Huber Suhner	966_RX	9	2017/11/29	2018/11/28

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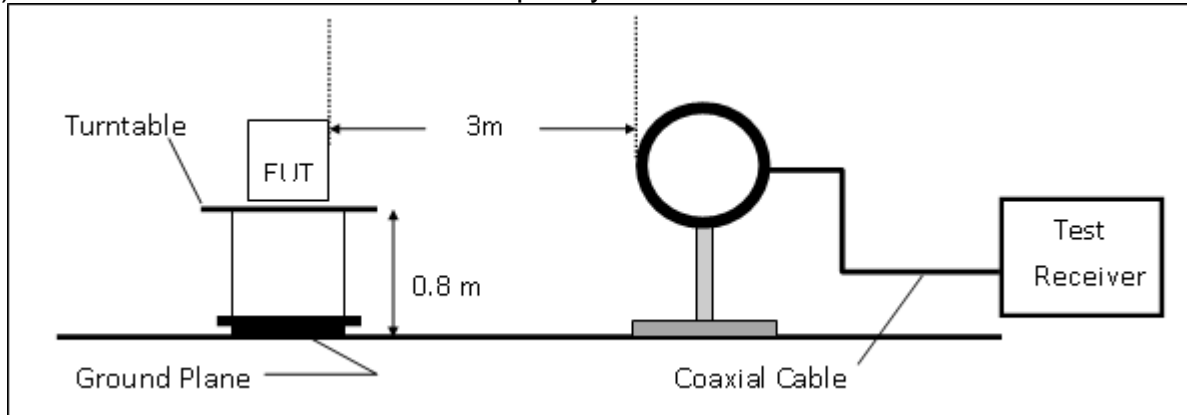
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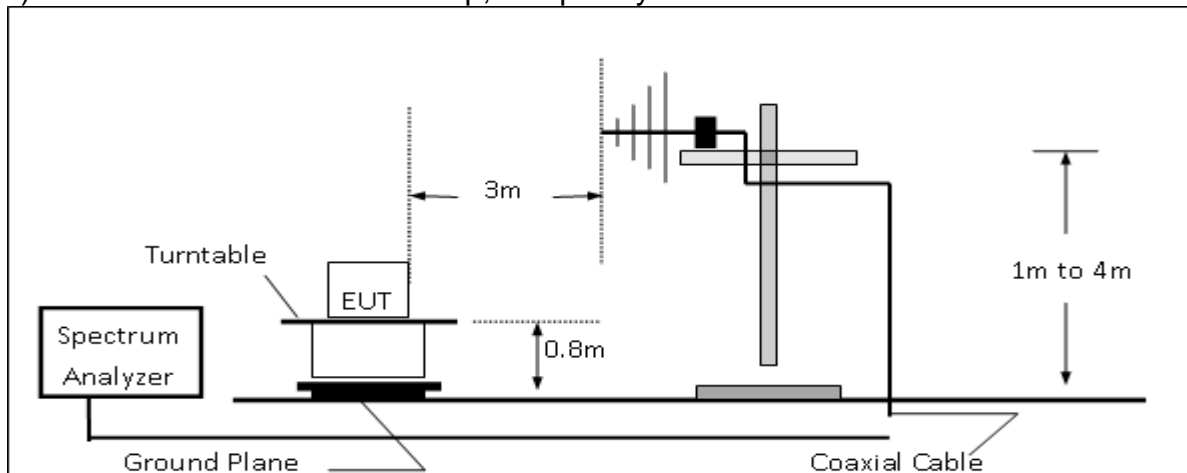
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11.3 Test SET-UP

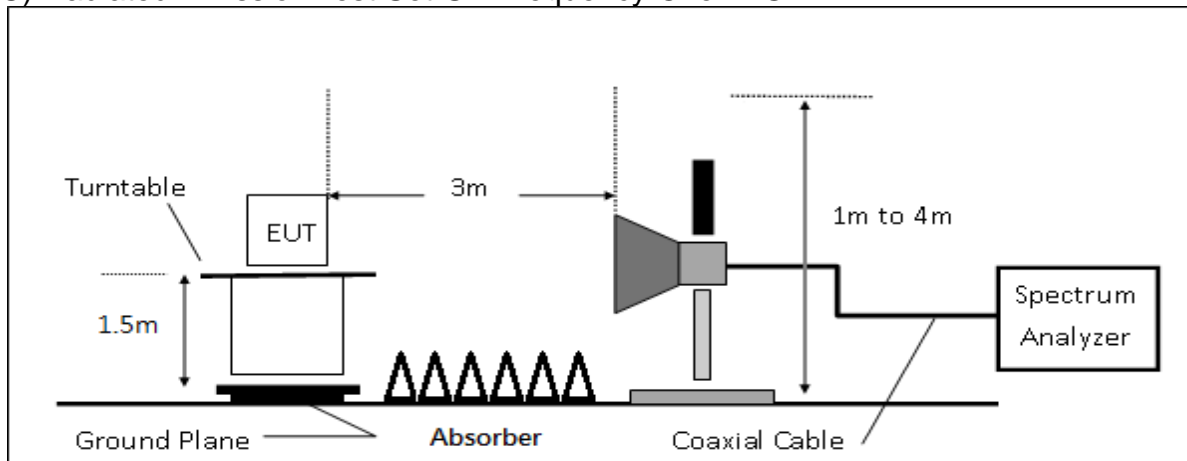
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
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 ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

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	

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

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

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

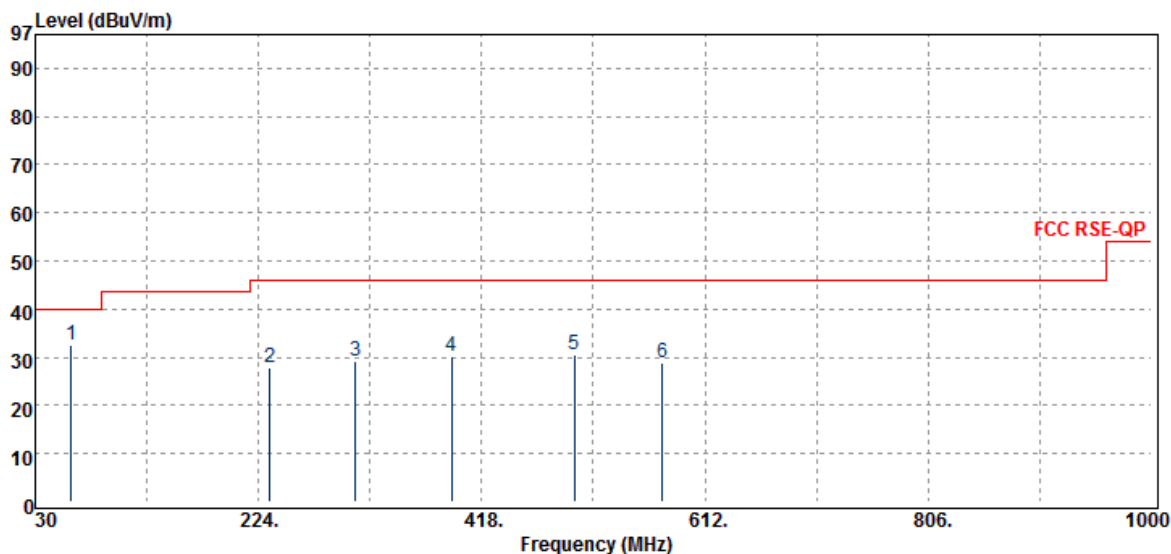
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

Pre-scanned was done at frequency 5.47 GHz and 5.85 GHz for bandedge measurement of straddle channels 138, 142 and 144 which was 20dB lower than the limit per 15.31(o) was not reported.

11.7 Measurement Result

Radiated Spurious Emission Measurement Result Below 1GHz Worst-Case Data:

Operation Band	:802.11aB1	Test Date	:2018-09-18
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Kane
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	40.46	-8.05	32.41	40.00	-7.59
233.70	Peak	36.01	-8.24	27.77	46.00	-18.23
308.39	Peak	34.41	-5.28	29.13	46.00	-16.87
391.81	Peak	33.91	-3.55	30.36	46.00	-15.64
498.51	Peak	32.97	-2.53	30.44	46.00	-15.56
575.14	Peak	29.07	-0.14	28.93	46.00	-17.07

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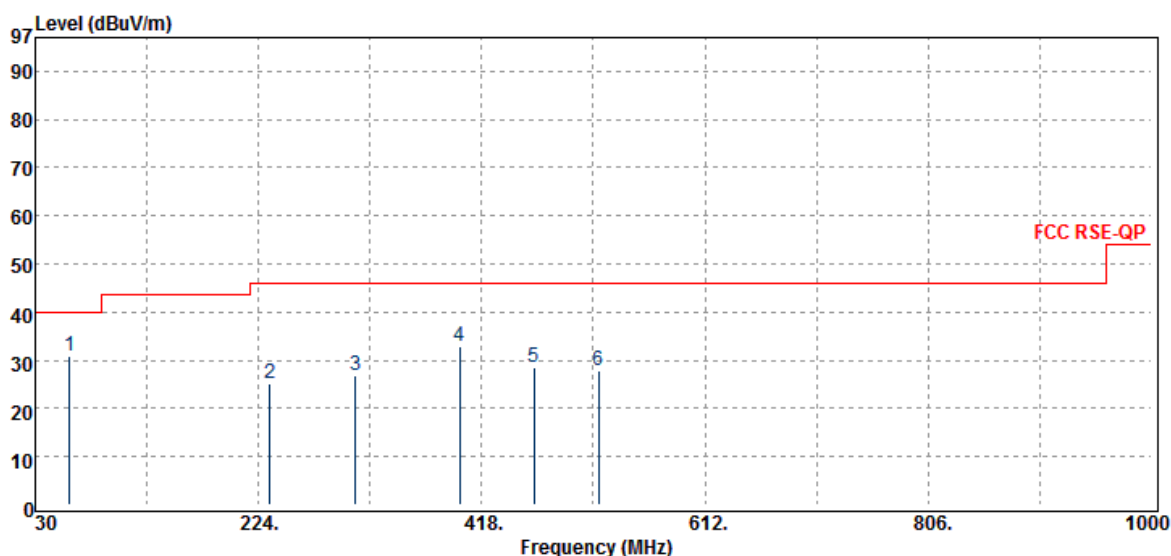
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB1
 Fundamental Frequency :5220 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2018-07-16
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
60.07	Peak	38.70	-7.80	30.90	40.00	-9.10
233.70	Peak	33.36	-8.24	25.12	46.00	-20.88
308.39	Peak	32.17	-5.28	26.89	46.00	-19.11
398.60	Peak	36.37	-3.41	32.96	46.00	-13.04
463.59	Peak	30.71	-2.16	28.55	46.00	-17.45
519.85	Peak	29.38	-1.46	27.92	46.00	-18.08

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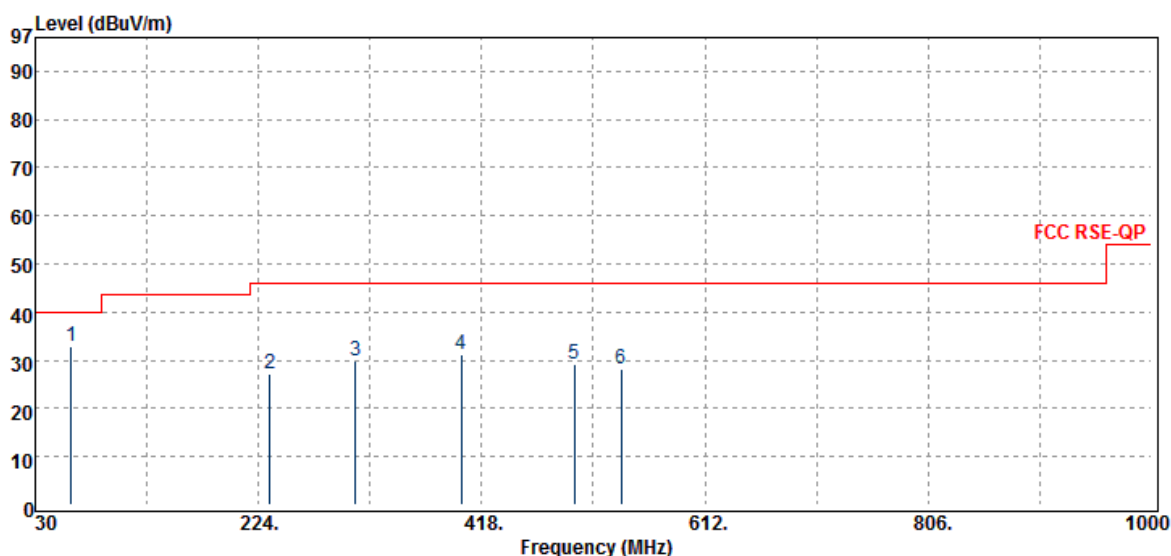
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB2
 Fundamental Frequency :5300 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2018-09-18
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	40.87	-8.05	32.82	40.00	-7.18
233.70	Peak	35.39	-8.24	27.15	46.00	-18.85
308.39	Peak	35.10	-5.28	29.82	46.00	-16.18
400.54	Peak	34.47	-3.37	31.10	46.00	-14.90
498.51	Peak	31.83	-2.53	29.30	46.00	-16.70
539.25	Peak	29.66	-1.31	28.35	46.00	-17.65

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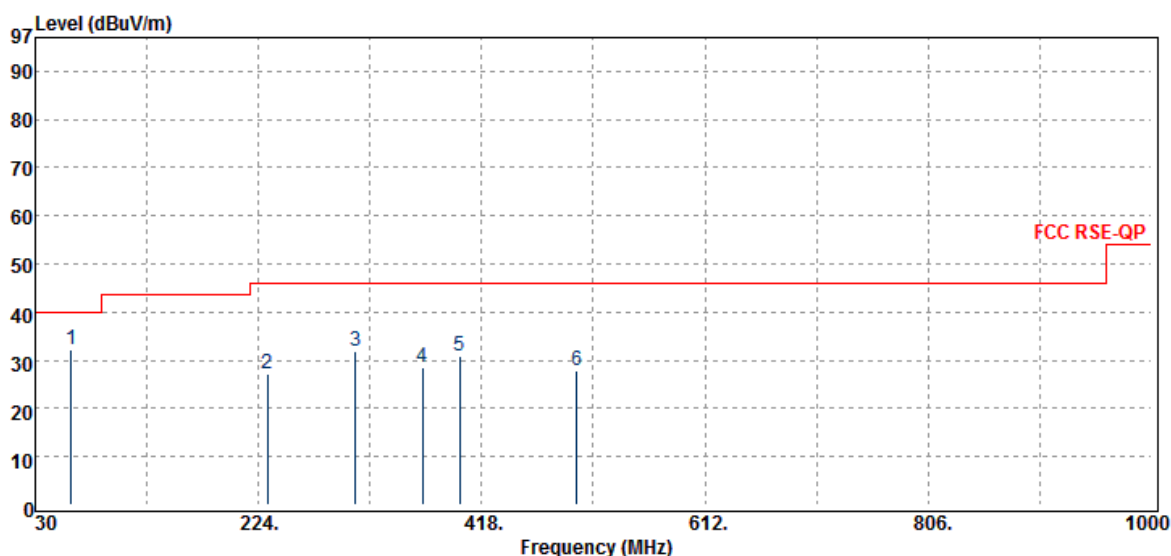
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Member of SGS Group

Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2018-09-18
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	40.26	-8.05	32.21	40.00	-7.79
231.76	Peak	35.53	-8.42	27.11	46.00	-18.89
308.39	Peak	37.17	-5.28	31.89	46.00	-14.11
366.59	Peak	32.39	-4.02	28.37	46.00	-17.63
398.60	Peak	34.28	-3.41	30.87	46.00	-15.13
500.45	Peak	30.36	-2.36	28.00	46.00	-18.00

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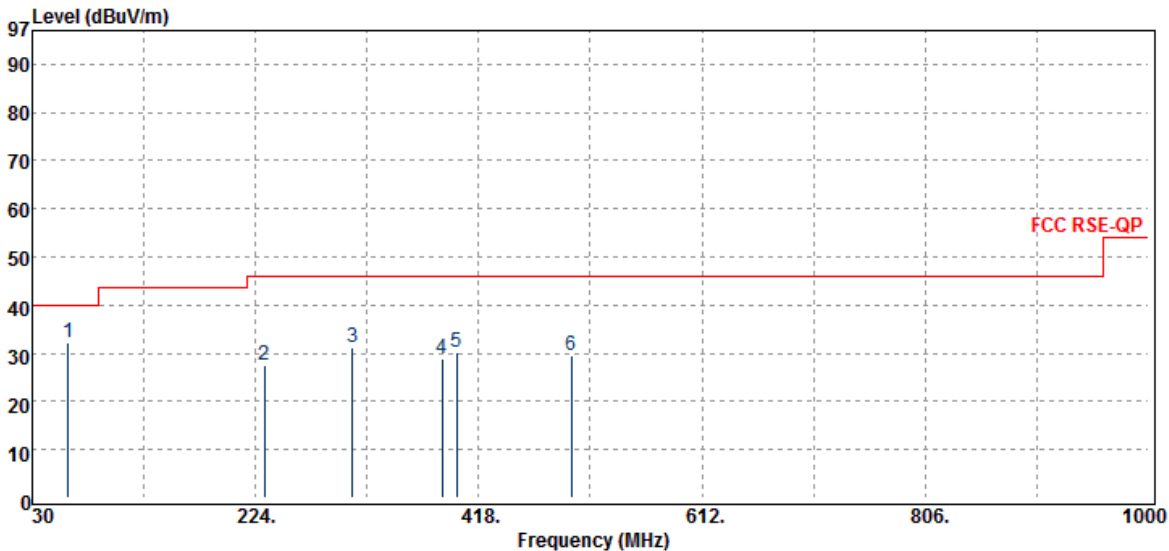
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2018-09-18
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	40.35	-8.05	32.30	40.00	-7.70
231.76	Peak	36.08	-8.42	27.66	46.00	-18.34
308.39	Peak	36.47	-5.28	31.19	46.00	-14.81
385.99	Peak	32.75	-3.77	28.98	46.00	-17.02
398.60	Peak	33.74	-3.41	30.33	46.00	-15.67
498.51	Peak	32.19	-2.53	29.66	46.00	-16.34

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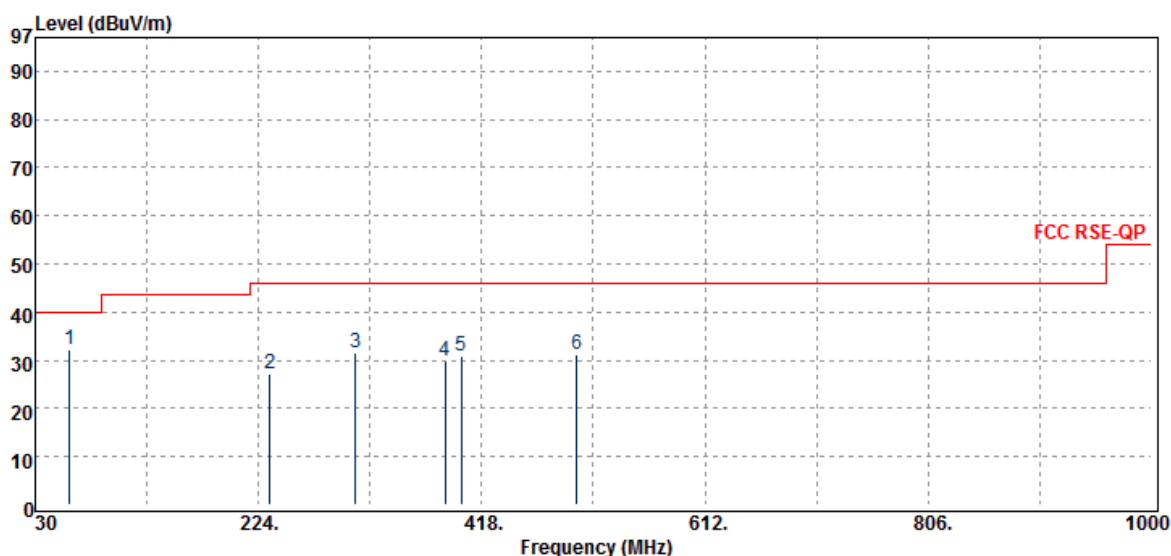
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Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2018-07-16
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
60.07	Peak	40.09	-7.80	32.29	40.00	-7.71
233.70	Peak	35.45	-8.24	27.21	46.00	-18.79
308.39	Peak	36.97	-5.28	31.69	46.00	-14.31
385.99	Peak	33.79	-3.77	30.02	46.00	-15.98
400.54	Peak	34.31	-3.37	30.94	46.00	-15.06
500.45	Peak	33.63	-2.36	31.27	46.00	-14.73

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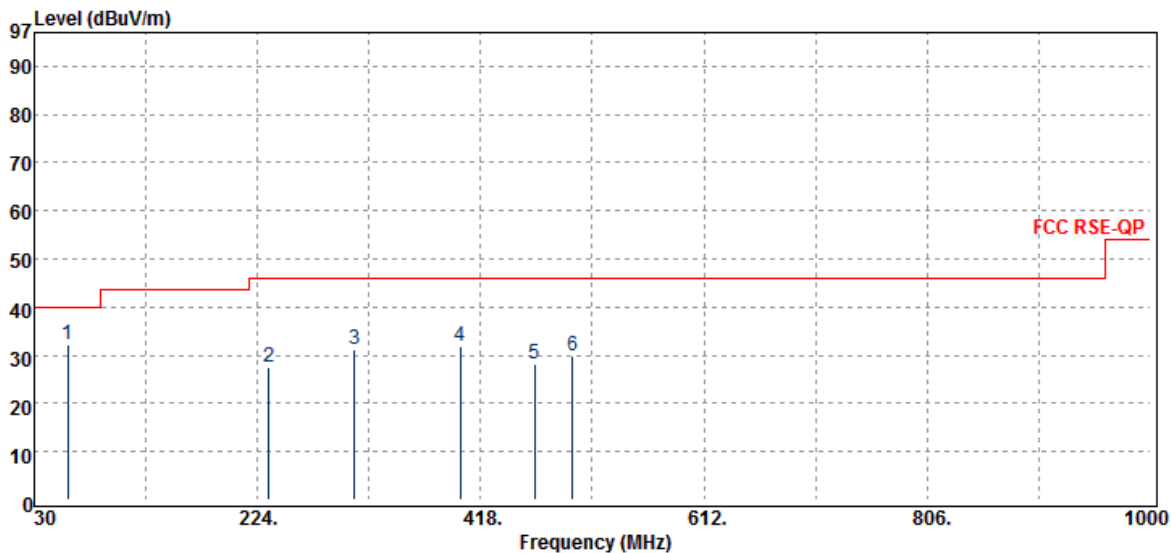
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Member of SGS Group

Operation Band :802.11aB4
 Fundamental Frequency :5785 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2018-09-18
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
59.10	Peak	40.03	-7.77	32.26	40.00	-7.74
233.70	Peak	35.61	-8.24	27.37	46.00	-18.63
308.39	Peak	36.59	-5.28	31.31	46.00	-14.69
400.54	Peak	35.37	-3.37	32.00	46.00	-14.00
464.56	Peak	30.28	-2.08	28.20	46.00	-17.80
497.54	Peak	32.56	-2.64	29.92	46.00	-16.08

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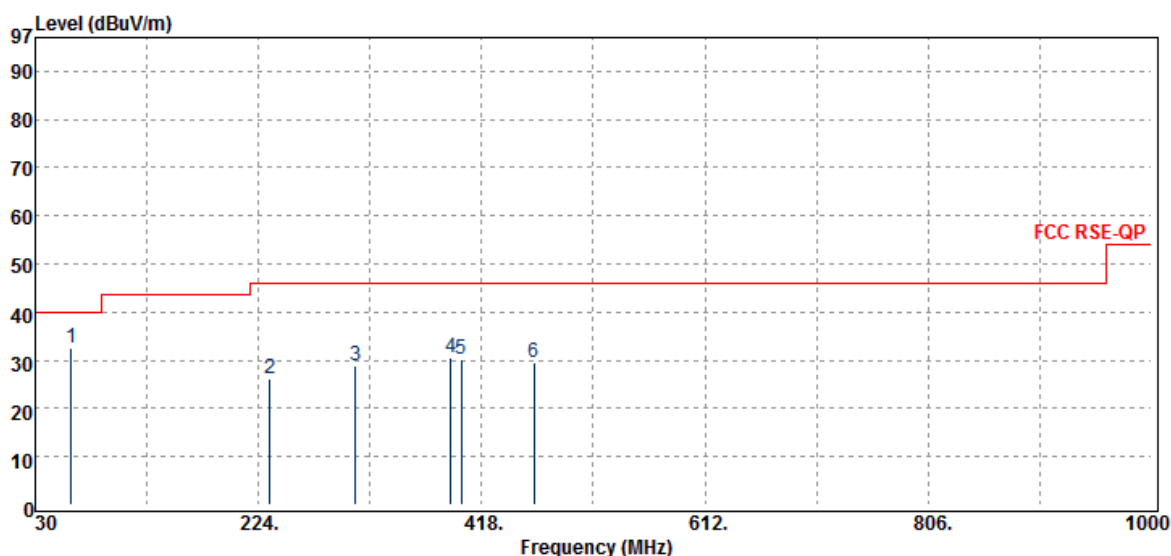
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Member of SGS Group

Operation Band :802.11aB4
 Fundamental Frequency :5785 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2018-09-18
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	40.74	-8.05	32.69	40.00	-7.31
233.70	Peak	34.34	-8.24	26.10	46.00	-19.90
308.39	Peak	34.04	-5.28	28.76	46.00	-17.24
390.84	Peak	34.27	-3.62	30.65	46.00	-15.35
400.54	Peak	33.70	-3.37	30.33	46.00	-15.67
463.59	Peak	31.70	-2.16	29.54	46.00	-16.46

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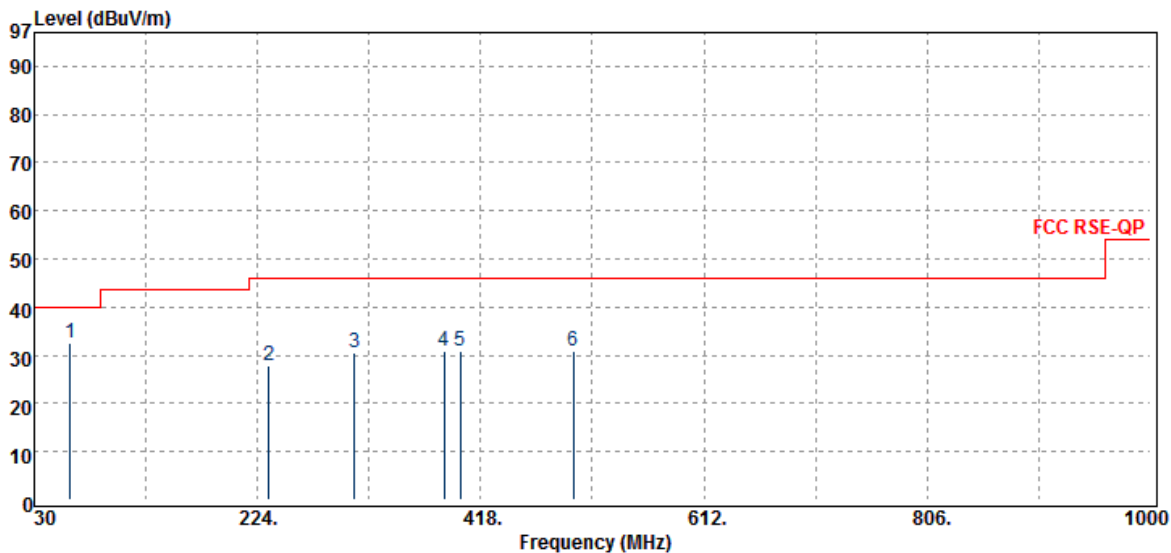
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Member of SGS Group

Operation Band :802.11ac80B1
Fundamental Frequency :5210 MHz
Operation Mode :Tx CH LOW
EUT Pol. :H Plane

Test Date :2018-09-18
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	40.48	-8.05	32.43	40.00	-7.57
233.70	Peak	36.13	-8.24	27.89	46.00	-18.11
308.39	Peak	35.71	-5.28	30.43	46.00	-15.57
385.99	Peak	34.57	-3.77	30.80	46.00	-15.20
400.54	Peak	34.31	-3.37	30.94	46.00	-15.06
498.51	Peak	33.29	-2.53	30.76	46.00	-15.24

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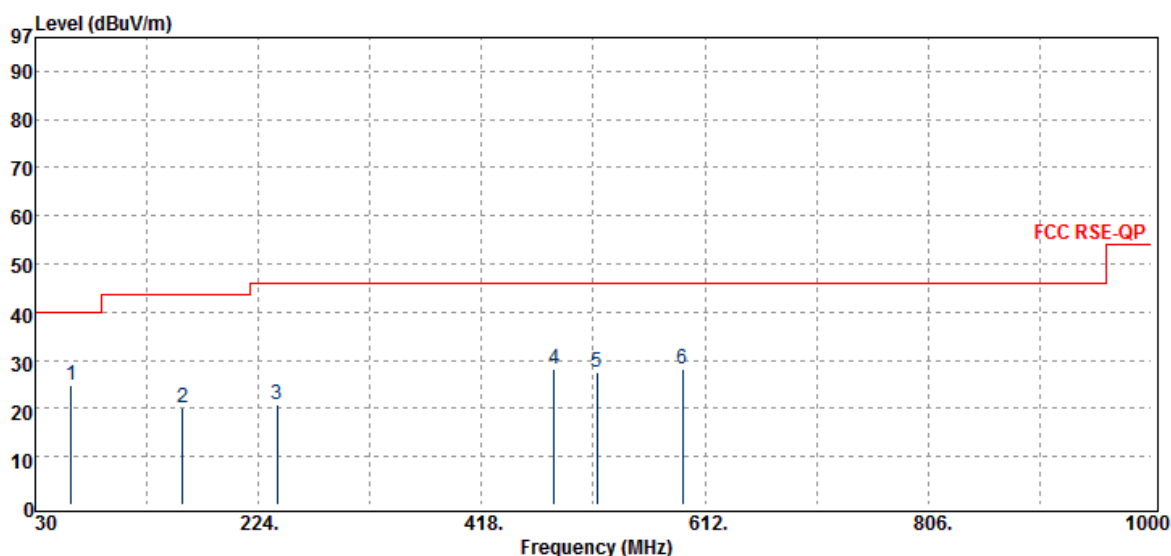
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Operation Band :802.11ac80B1
 Fundamental Frequency :5210 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-16
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	32.73	-8.05	24.68	40.00	-15.32
158.04	Peak	27.36	-7.17	20.19	43.50	-23.31
240.49	Peak	28.60	-7.79	20.81	46.00	-25.19
481.05	Peak	30.32	-2.22	28.10	46.00	-17.90
517.91	Peak	29.05	-1.46	27.59	46.00	-18.41
592.60	Peak	28.54	-0.33	28.21	46.00	-17.79

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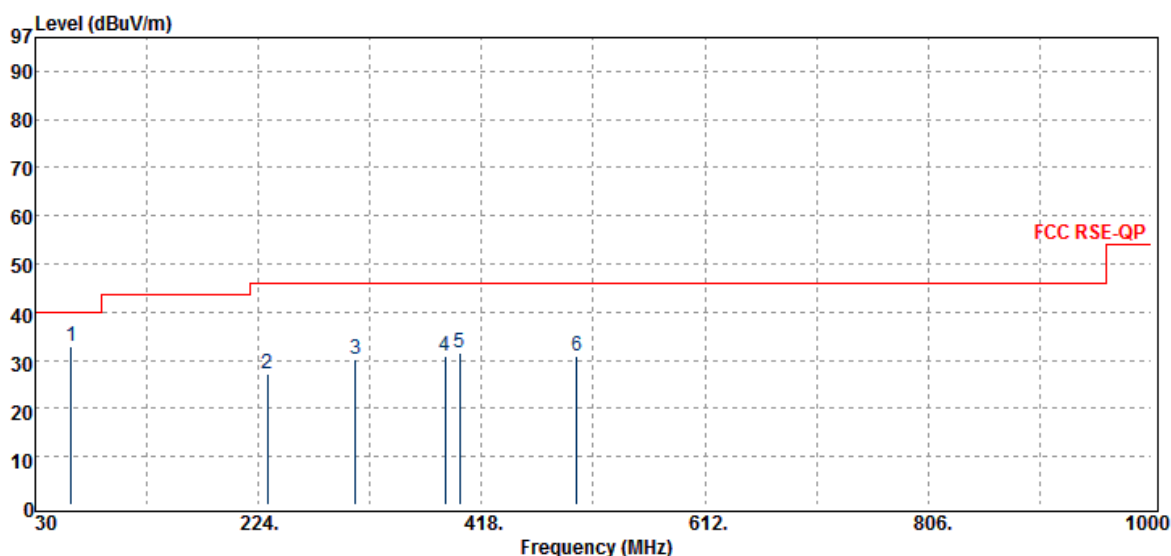
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Operation Band :802.11ac80B2
 Fundamental Frequency :5290 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-09-18
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	40.95	-8.05	32.90	40.00	-7.10
231.76	Peak	35.60	-8.42	27.18	46.00	-18.82
308.39	Peak	35.37	-5.28	30.09	46.00	-15.91
385.99	Peak	34.77	-3.77	31.00	46.00	-15.00
398.60	Peak	35.09	-3.41	31.68	46.00	-14.32
500.45	Peak	33.33	-2.36	30.97	46.00	-15.03

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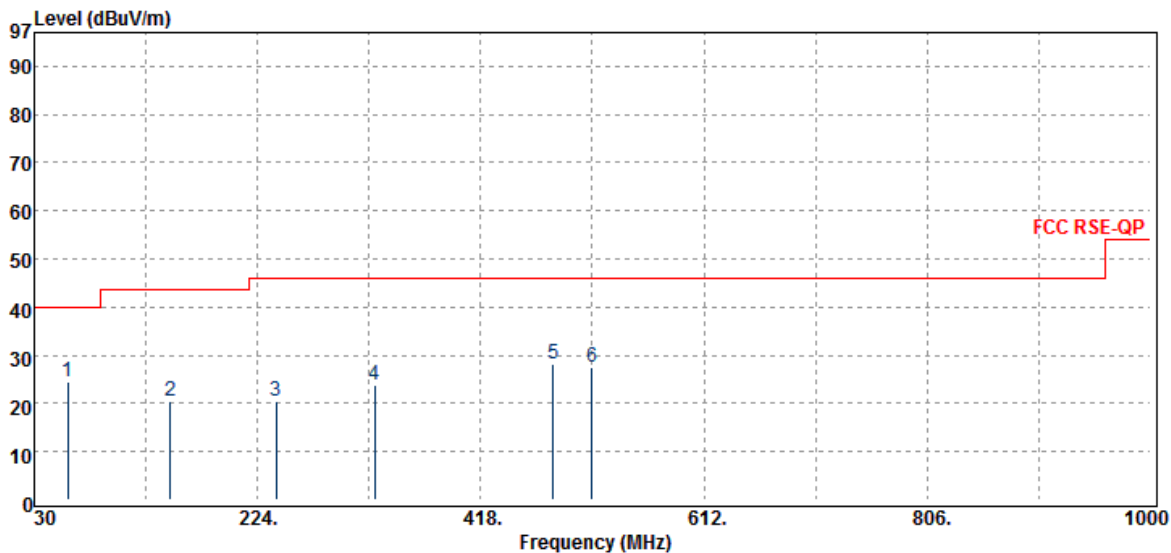
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11ac80B2
 Fundamental Frequency :5290 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-16
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
59.10	Peak	32.35	-7.77	24.58	40.00	-15.42
148.34	Peak	27.86	-7.47	20.39	43.50	-23.11
240.49	Peak	28.41	-7.79	20.62	46.00	-25.38
325.85	Peak	28.93	-5.06	23.87	46.00	-22.13
481.05	Peak	30.39	-2.22	28.17	46.00	-17.83
515.00	Peak	29.11	-1.43	27.68	46.00	-18.32

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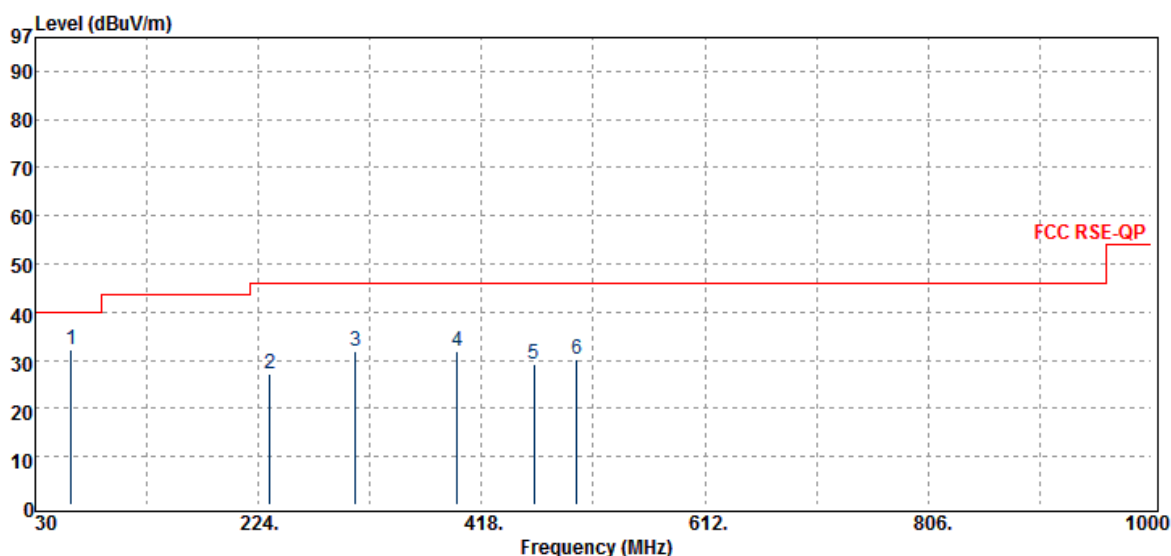
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Member of SGS Group

Operation Band :802.11ac80B3
 Fundamental Frequency :5530 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-09-18
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	40.31	-8.05	32.26	40.00	-7.74
233.70	Peak	35.50	-8.24	27.26	46.00	-18.74
308.39	Peak	37.18	-5.28	31.90	46.00	-14.10
396.66	Peak	35.20	-3.36	31.84	46.00	-14.16
463.59	Peak	31.52	-2.16	29.36	46.00	-16.64
500.45	Peak	32.70	-2.36	30.34	46.00	-15.66

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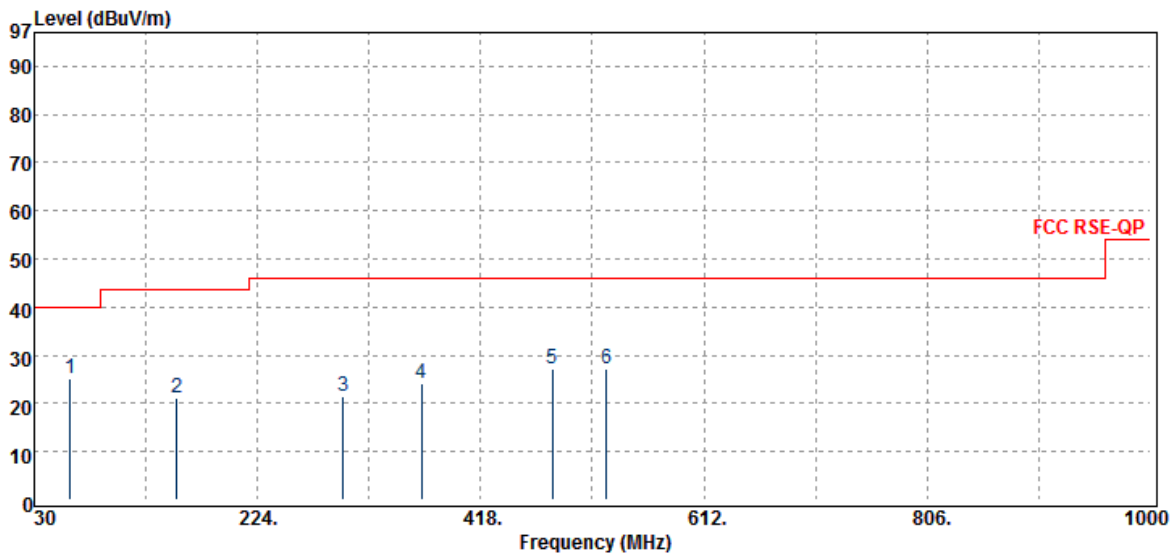
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www.tw.sgs.com

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Operation Band :802.11ac80B3
 Fundamental Frequency :5530 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-16
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	33.18	-8.05	25.13	40.00	-14.87
154.16	Peak	28.35	-7.30	21.05	43.50	-22.45
298.69	Peak	27.09	-5.55	21.54	46.00	-24.46
366.59	Peak	28.08	-4.02	24.06	46.00	-21.94
480.08	Peak	29.24	-2.06	27.18	46.00	-18.82
527.61	Peak	28.66	-1.34	27.32	46.00	-18.68

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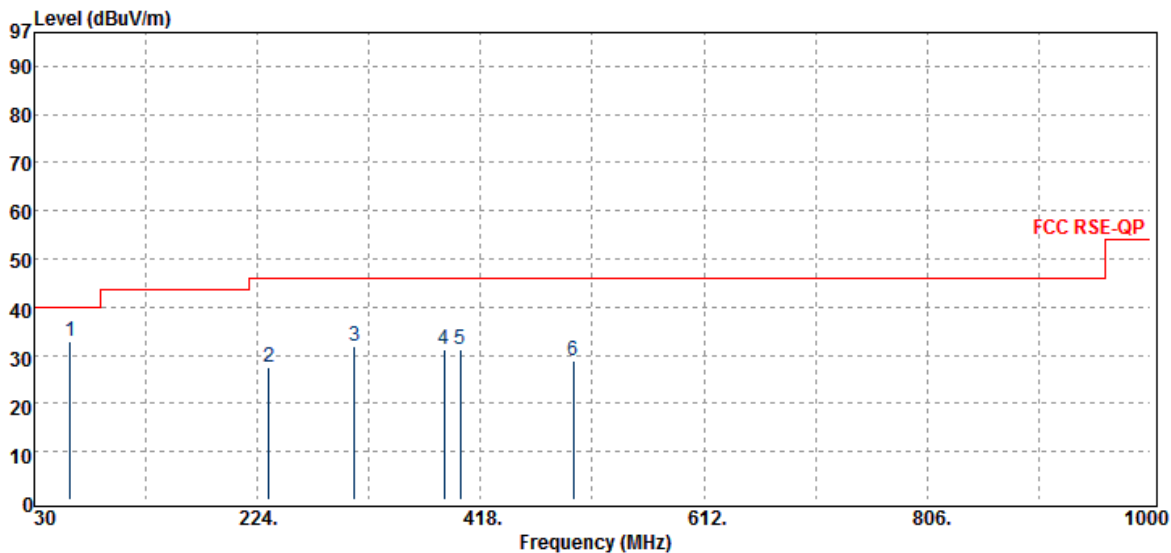
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Operation Band :802.11ac80B4
 Fundamental Frequency :5775 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-09-18
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	41.00	-8.05	32.95	40.00	-7.05
233.70	Peak	35.82	-8.24	27.58	46.00	-18.42
308.39	Peak	37.12	-5.28	31.84	46.00	-14.16
385.99	Peak	34.95	-3.77	31.18	46.00	-14.82
400.54	Peak	34.68	-3.37	31.31	46.00	-14.69
498.51	Peak	31.50	-2.53	28.97	46.00	-17.03

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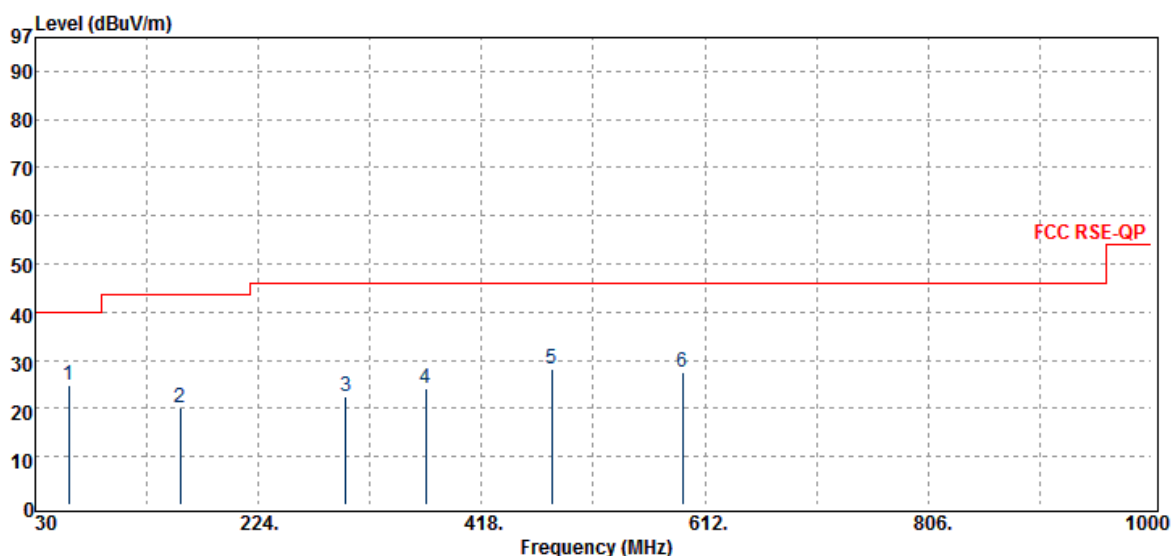
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Member of SGS Group

Operation Band :802.11ac80B4
 Fundamental Frequency :5775 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-16
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
59.10	Peak	32.72	-7.77	24.95	40.00	-15.05
156.10	Peak	27.53	-7.24	20.29	43.50	-23.21
299.66	Peak	27.98	-5.52	22.46	46.00	-23.54
369.50	Peak	28.30	-3.99	24.31	46.00	-21.69
479.11	Peak	30.36	-2.10	28.26	46.00	-17.74
592.60	Peak	27.93	-0.33	27.60	46.00	-18.40

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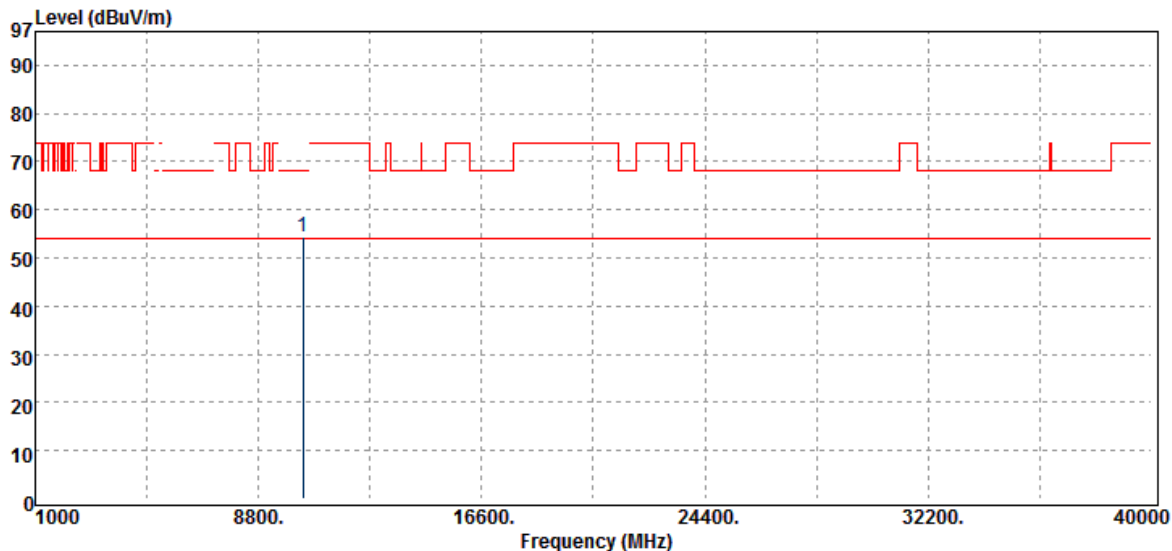
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Above 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

Operation Band	:802.11aB1	Test Date	:2018-07-09
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dB μ V		dB μ V/m	dB μ V/m	
10360.00	Peak	34.62	19.71	54.33	68.20	-13.87

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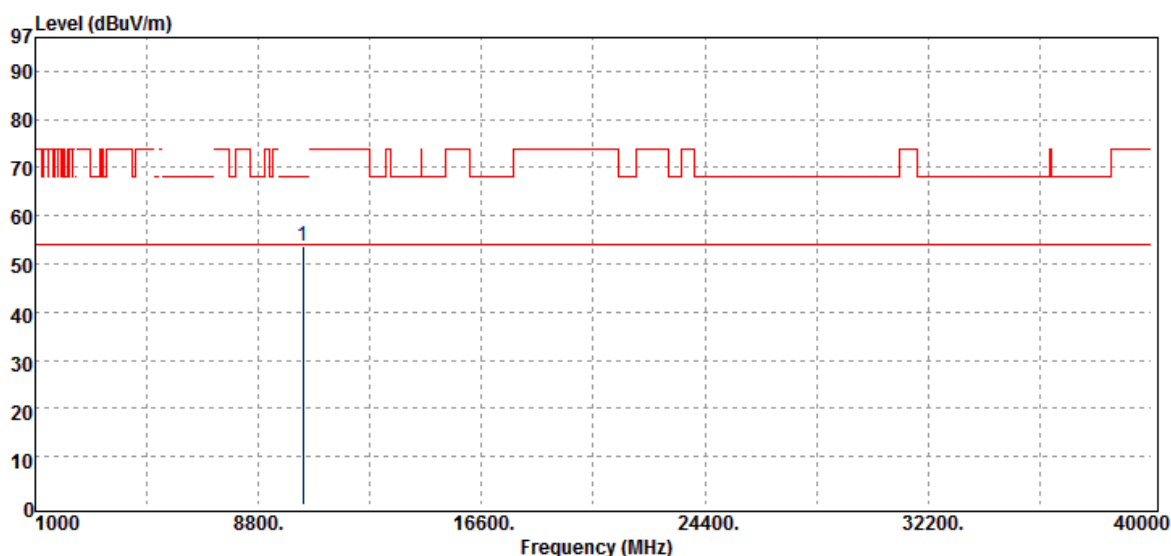
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Member of SGS Group

Operation Band :802.11aB1
 Fundamental Frequency :5180 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	Peak	33.95	19.71	53.66	68.20	-14.54

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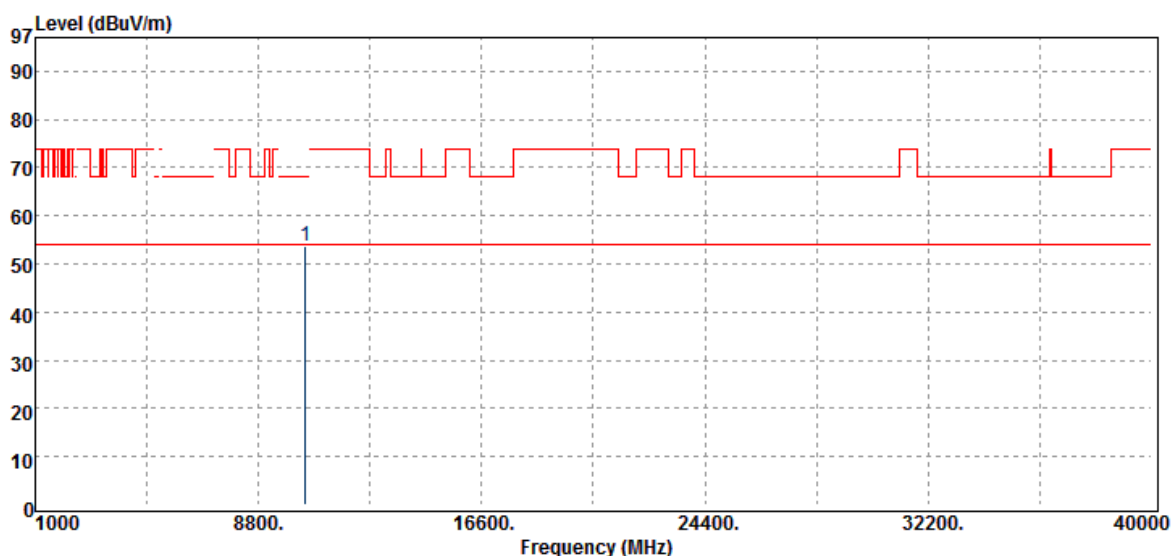
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Operation Band :802.11aB1
 Fundamental Frequency :5220 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10440.00	Peak	33.72	20.05	53.77	68.20	-14.43

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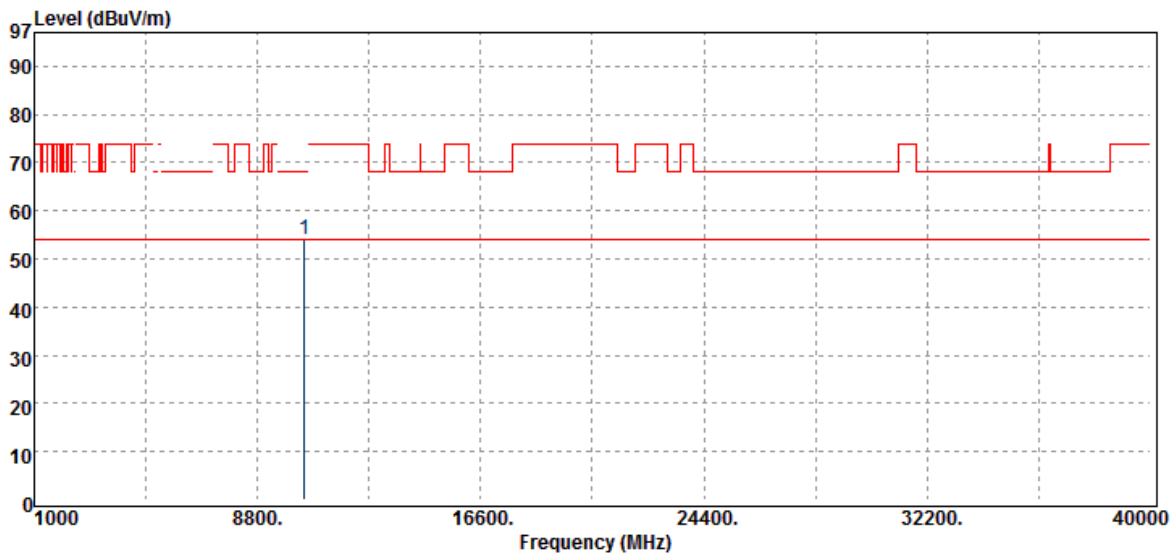
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Operation Band :802.11aB1
 Fundamental Frequency :5220 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10440.00	Peak	34.06	20.05	54.11	68.20	-14.09

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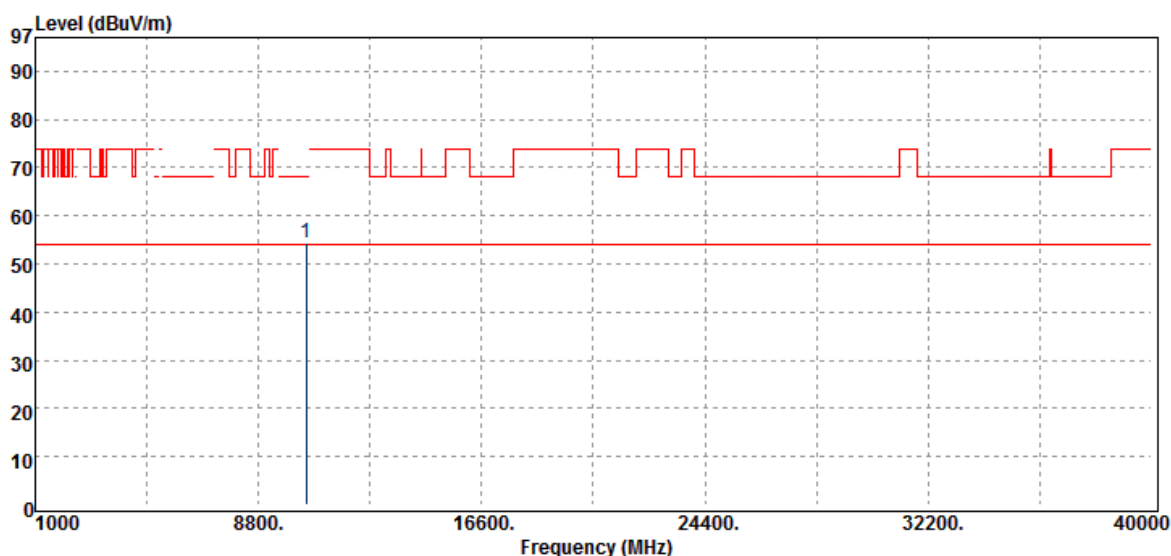
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Operation Band :802.11aB1
 Fundamental Frequency :5240 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	Peak	34.43	20.07	54.50	68.20	-13.70

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Operation Band :802.11aB1
 Fundamental Frequency :5240 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	Peak	33.16	20.07	53.23	68.20	-14.97

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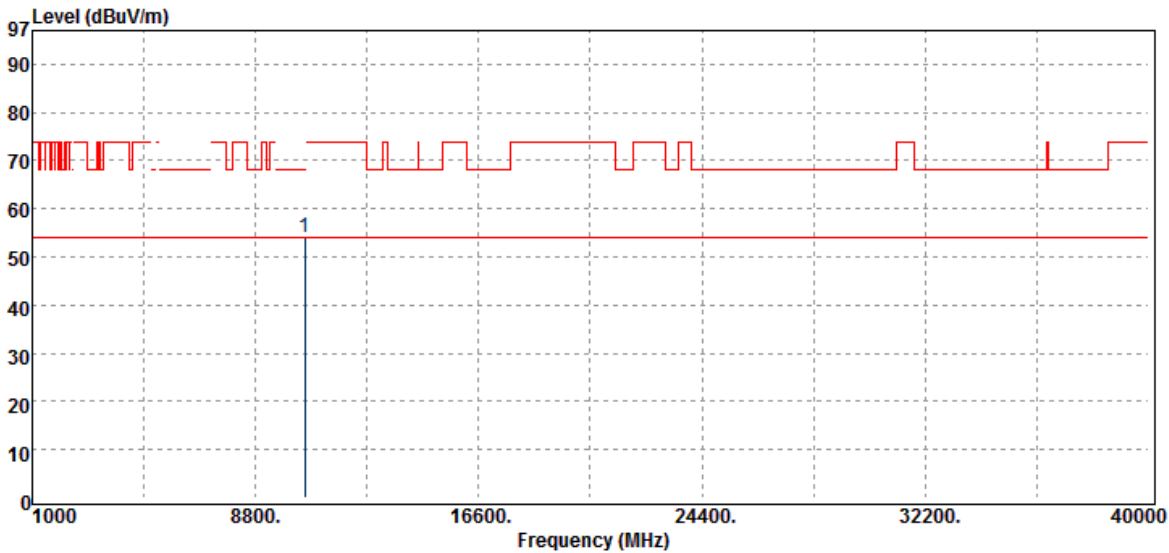
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Band	:802.11aB2	Test Date	:2018-07-12
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	Peak	33.97	20.00	53.97	68.20	-14.23

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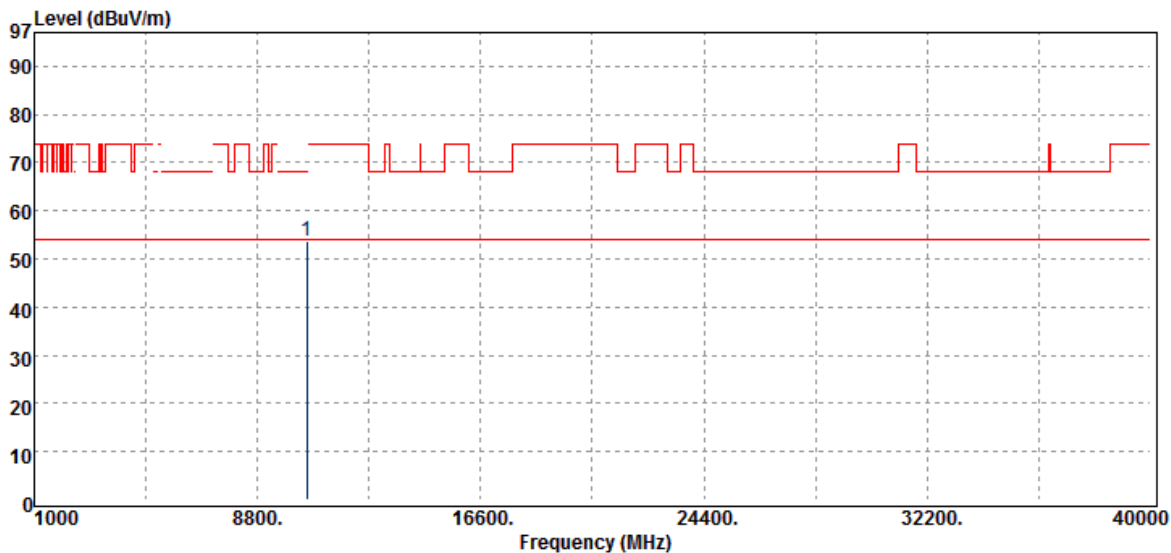
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Member of SGS Group

Operation Band :802.11aB2
 Fundamental Frequency :5260 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	Peak	33.64	20.00	53.64	68.20	-14.56

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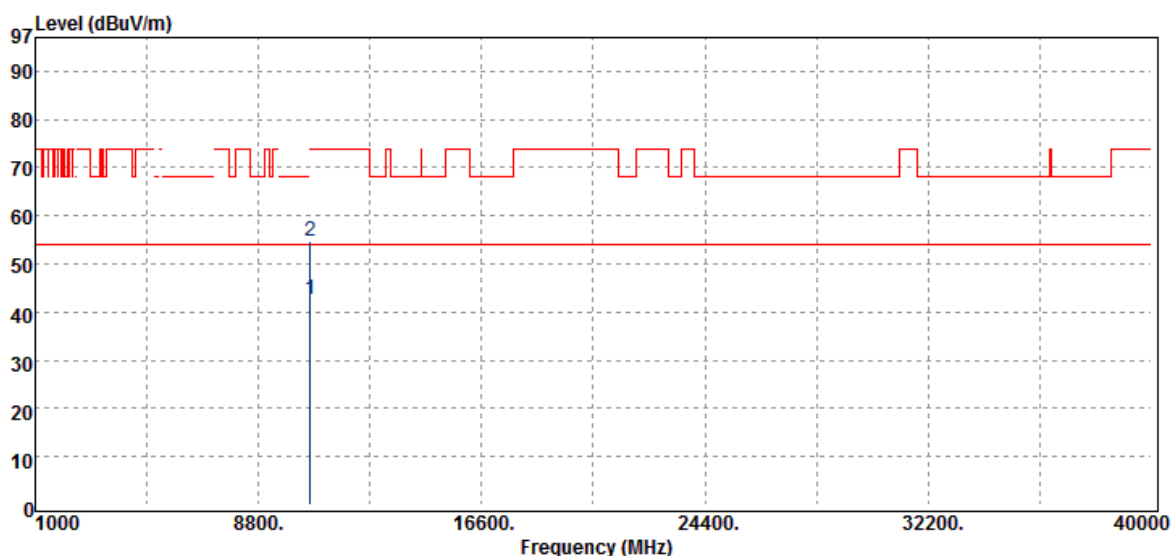
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Operation Band :802.11aB2
 Fundamental Frequency :5300 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	22.34	20.38	42.72	54.00	-11.28
10600.00	Peak	34.44	20.38	54.82	74.00	-19.18

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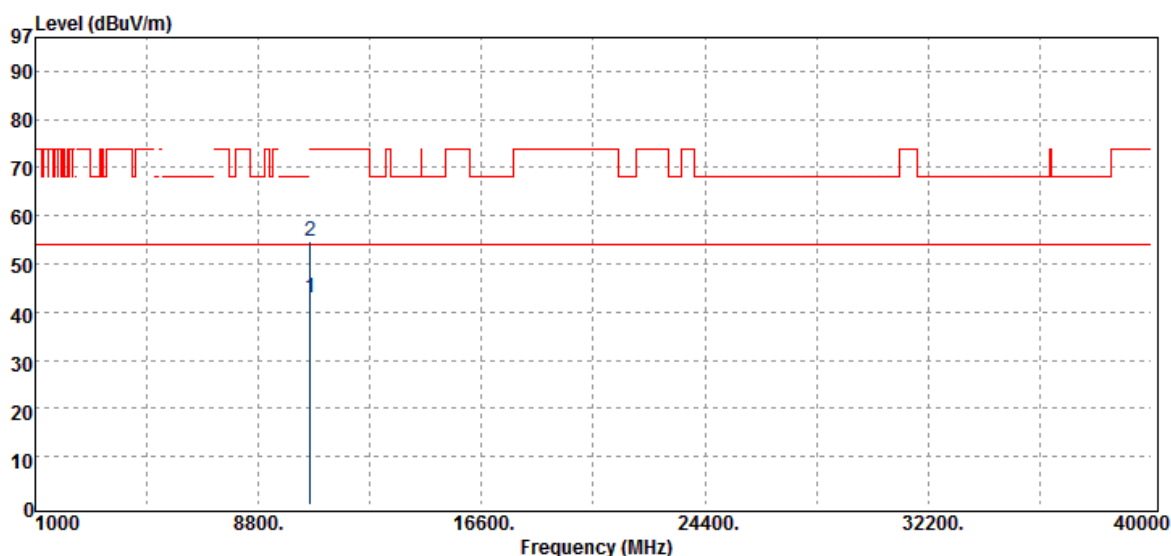
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Operation Band :802.11aB2
 Fundamental Frequency :5300 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10600.00	Average	22.63	20.38	43.01	54.00	-10.99
10600.00	Peak	34.26	20.38	54.64	74.00	-19.36

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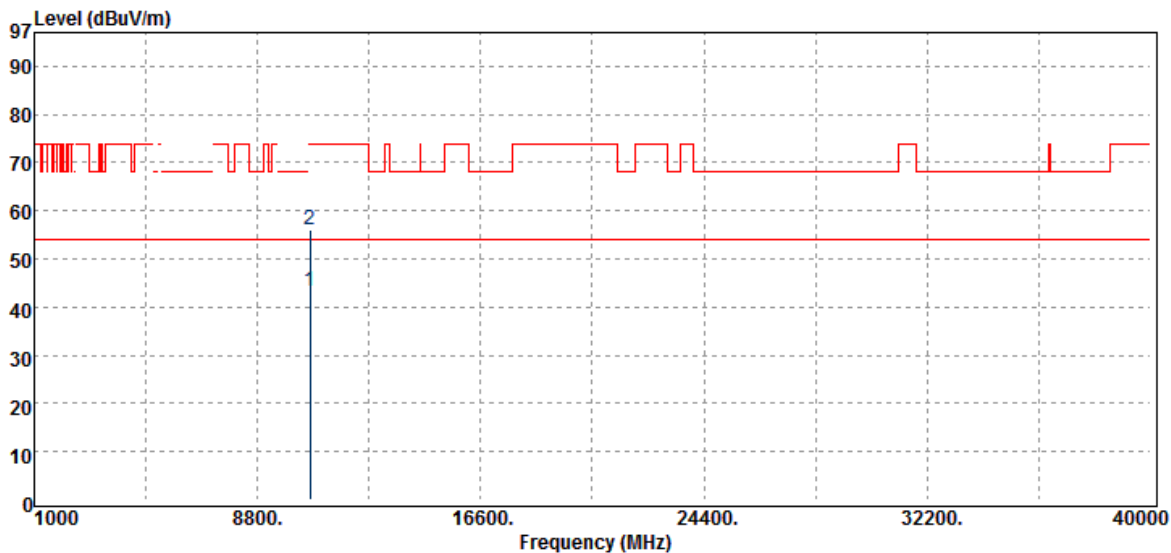
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Operation Band :802.11aB2
 Fundamental Frequency :5320 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10640.00	Average	22.70	20.44	43.14	54.00	-10.86
10640.00	Peak	35.51	20.44	55.95	74.00	-18.05

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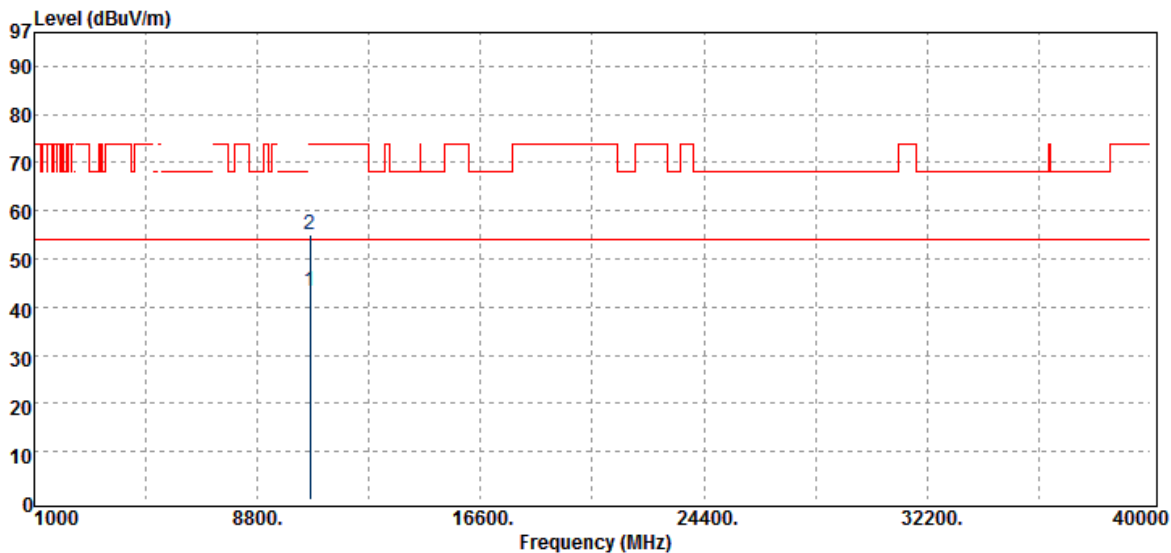
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Operation Band :802.11aB2
 Fundamental Frequency :5320 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10640.00	Average	22.90	20.44	43.34	54.00	-10.66
10640.00	Peak	34.62	20.44	55.06	74.00	-18.94

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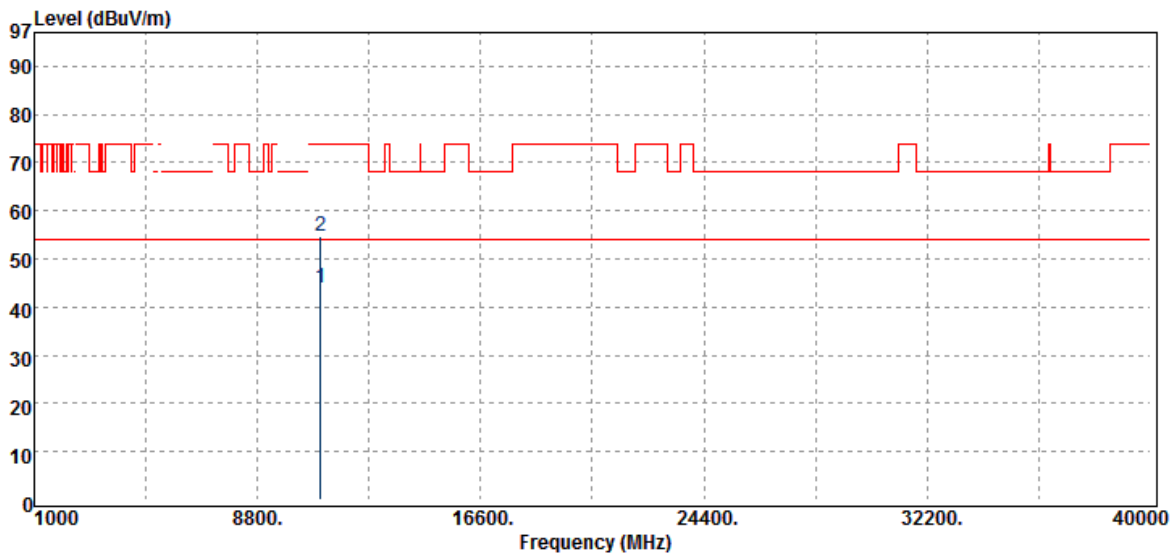
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Band	:802.11aB3	Test Date	:2018-07-12
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11000.00	Average	22.69	21.37	44.06	54.00	-9.94
11000.00	Peak	33.44	21.37	54.81	74.00	-19.19

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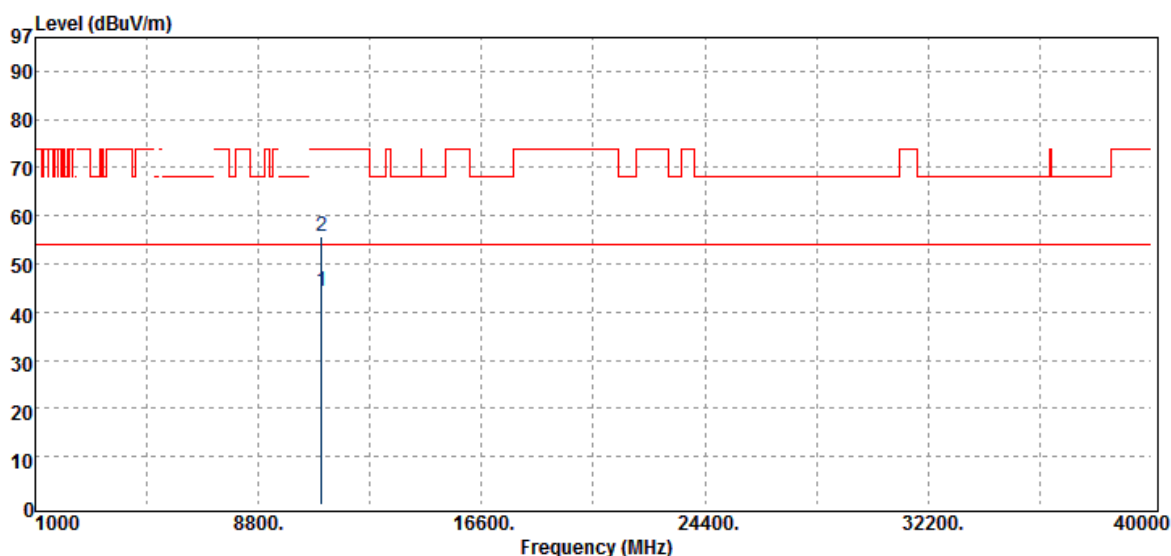
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Operation Band :802.11aB3
 Fundamental Frequency :5500 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11000.00	Average	22.97	21.37	44.34	54.00	-9.66
11000.00	Peak	34.40	21.37	55.77	74.00	-18.23

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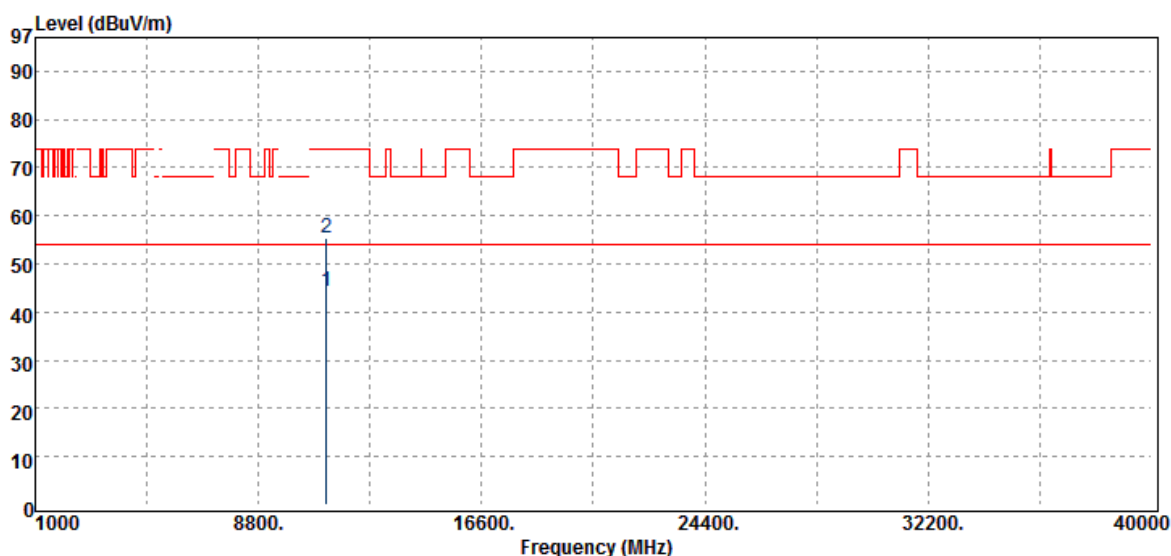
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Operation Band :802.11aB3
 Fundamental Frequency :5580 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11160.00	Average	22.92	21.51	44.43	54.00	-9.57
11160.00	Peak	34.01	21.51	55.52	74.00	-18.48

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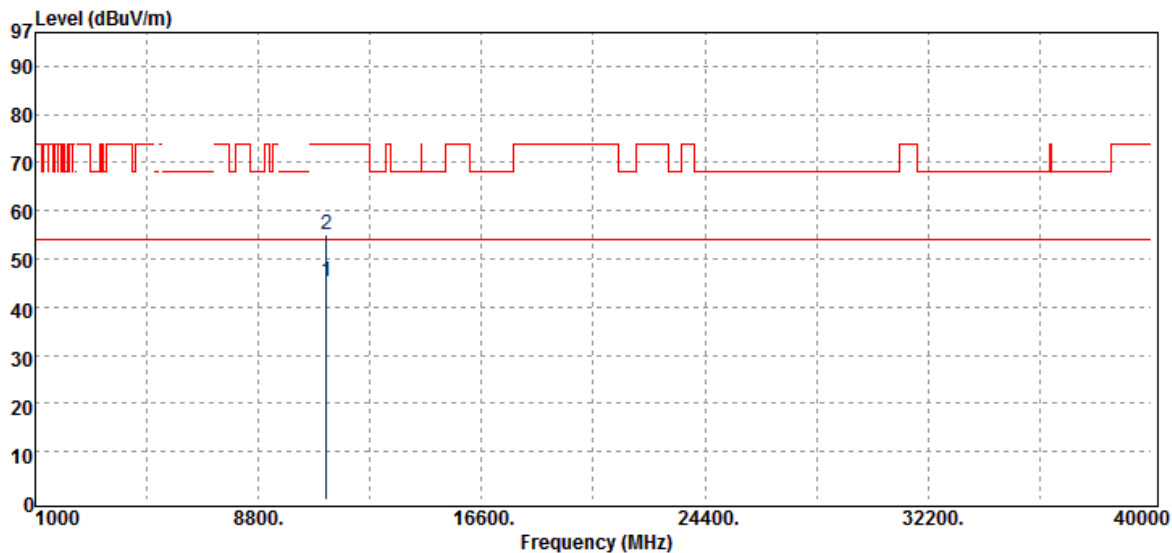
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Operation Band :802.11aB3
 Fundamental Frequency :5580 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11160.00	Average	23.96	21.51	45.47	54.00	-8.53
11160.00	Peak	33.42	21.51	54.93	74.00	-19.07

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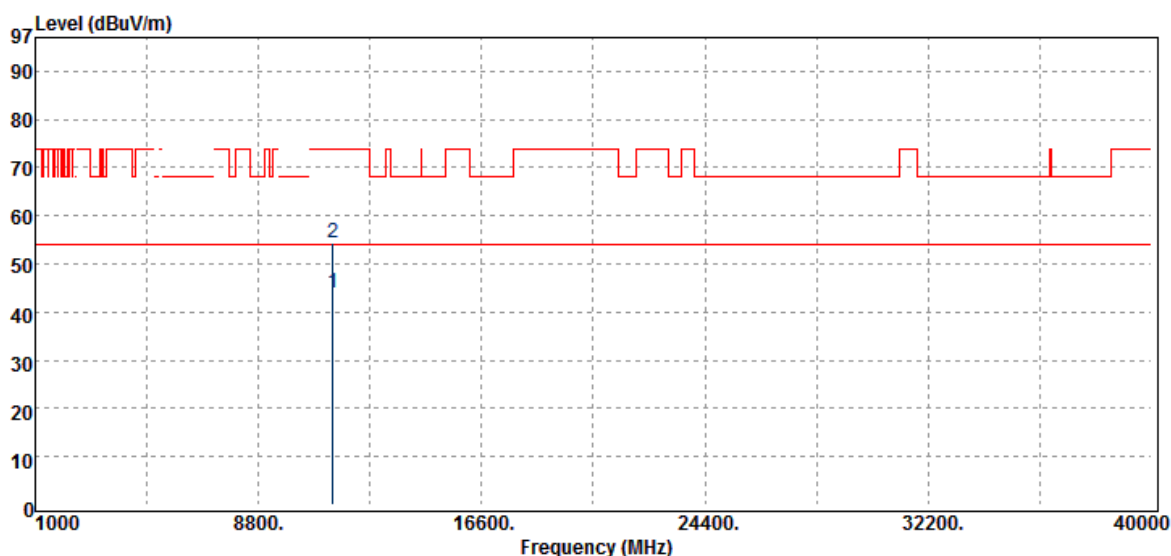
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Operation Band :802.11aB3
 Fundamental Frequency :5700 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11400.00	Average	22.30	21.62	43.92	54.00	-10.08
11400.00	Peak	32.91	21.62	54.53	74.00	-19.47

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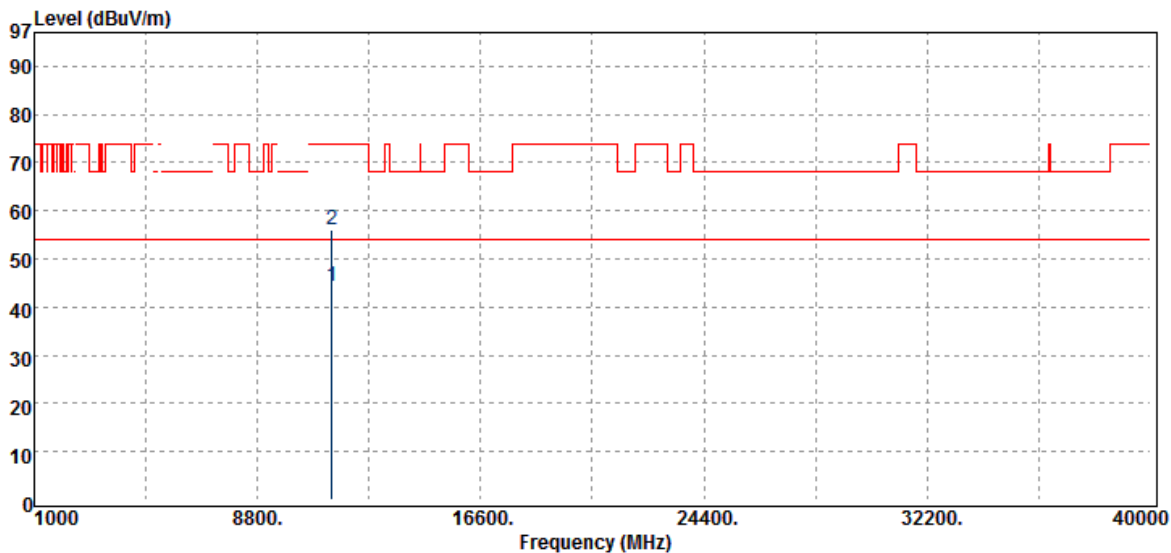
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Operation Band :802.11aB3
 Fundamental Frequency :5700 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	22.75	21.62	44.37	54.00	-9.63
11400.00	Peak	34.47	21.62	56.09	74.00	-17.91

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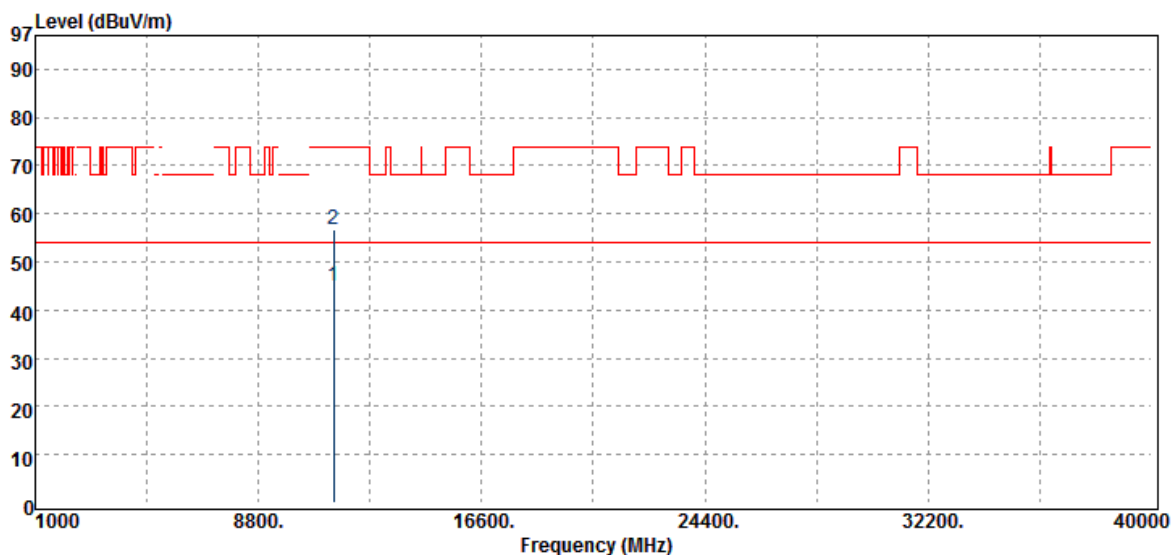
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Radiated Spurious Emission Measurement Result 802.11a, 5720 MHz

Operation Band	:802.11aB3	Test Date	:2018-07-12
Fundamental Frequency	:5720 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH CROSS	Engineer	:Kane
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
11440.00	Average	23.29	21.59	44.88	54.00	-9.12
11440.00	Peak	35.20	21.59	56.79	74.00	-17.21

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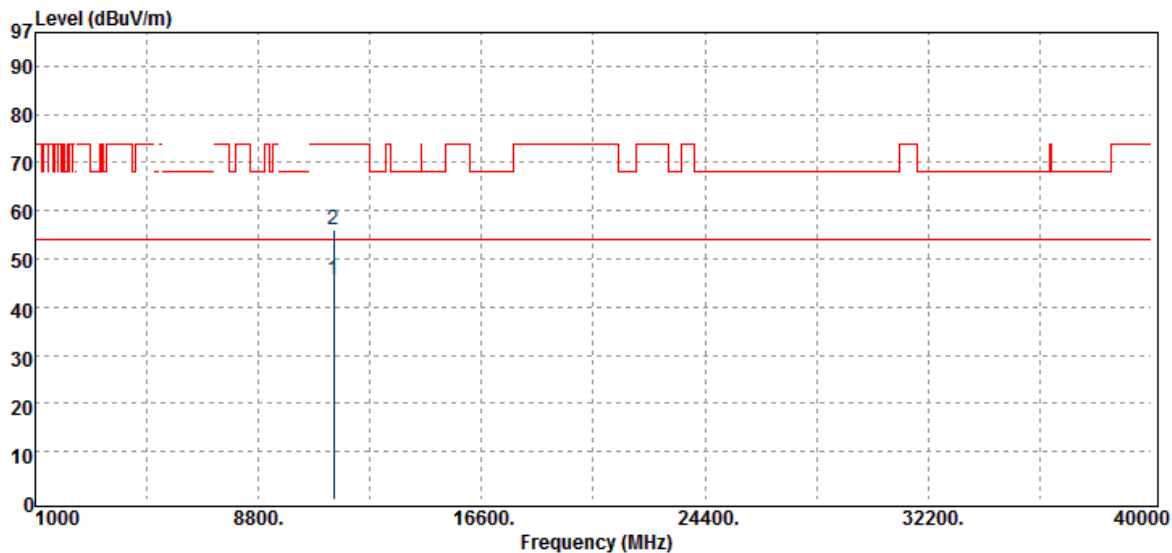
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Operation Band :802.11aB3
 Fundamental Frequency :5720 MHz
 Operation Mode :Tx CH CROSS
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11440.00	Average	24.19	21.59	45.78	54.00	-8.22
11440.00	Peak	34.49	21.59	56.08	74.00	-17.92

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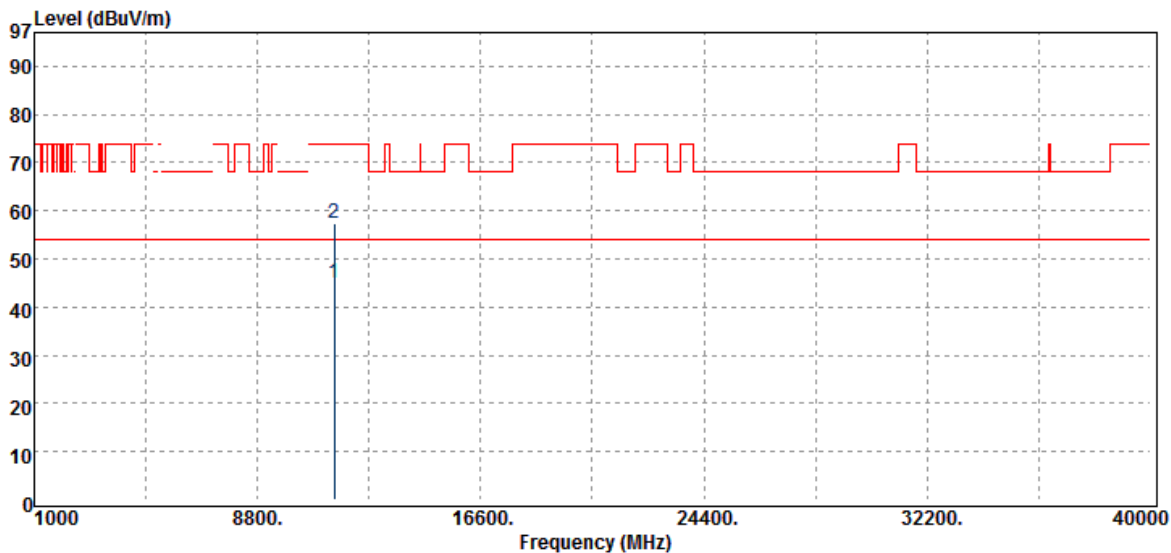
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Band	:802.11aB4	Test Date	:2018-07-12
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11490.00	Average	23.39	21.61	45.00	54.00	-9.00
11490.00	Peak	35.67	21.61	57.28	74.00	-16.72

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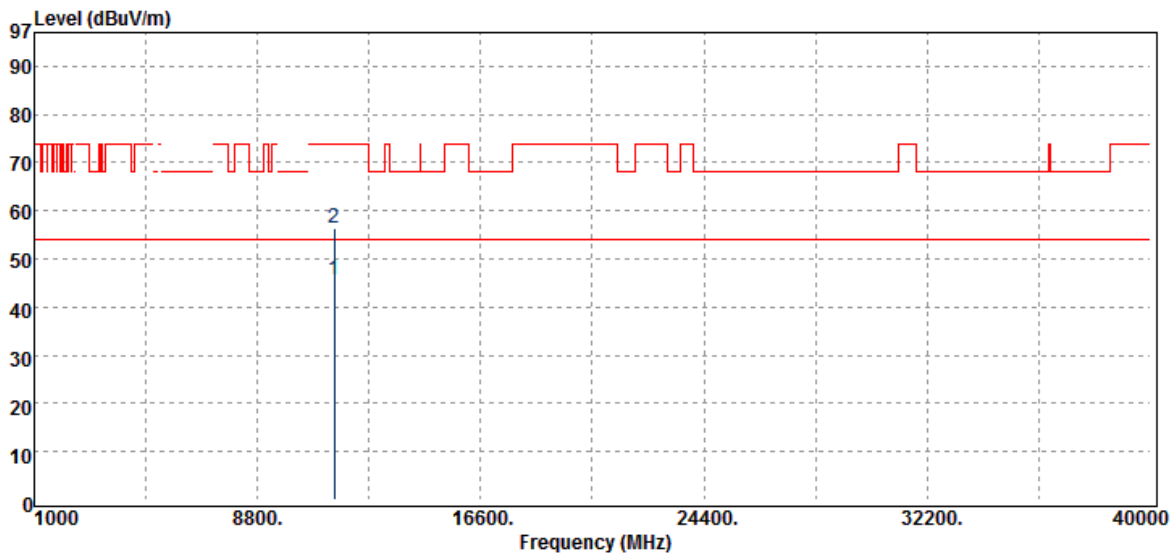
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Operation Band :802.11aB4
 Fundamental Frequency :5745 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11490.00	Average	23.98	21.61	45.59	54.00	-8.41
11490.00	Peak	34.86	21.61	56.47	74.00	-17.53

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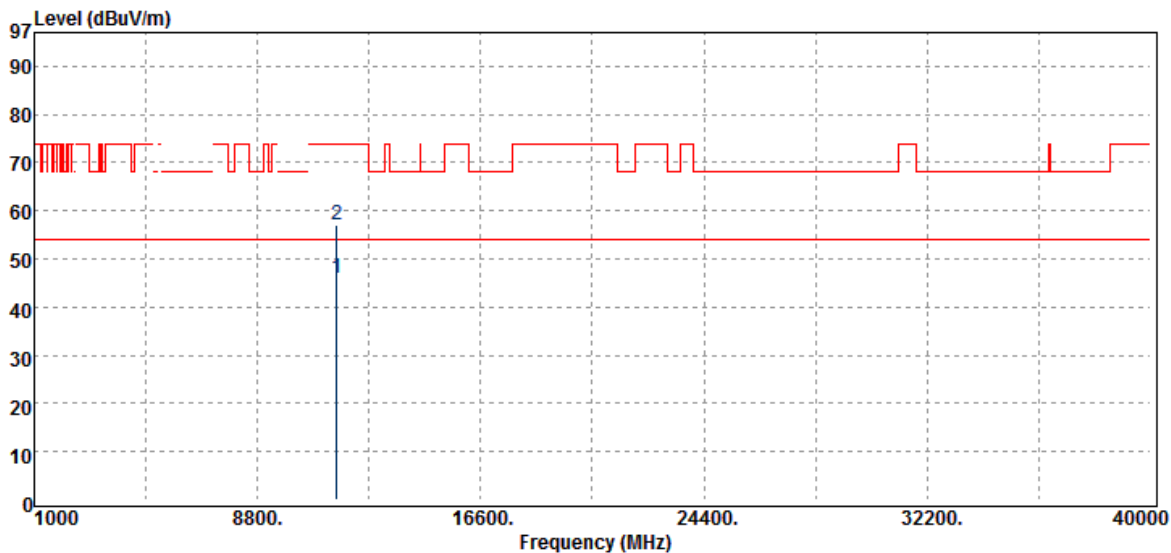
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Operation Band :802.11aB4
 Fundamental Frequency :5785 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11570.00	Average	24.35	21.66	46.01	54.00	-7.99
11570.00	Peak	35.56	21.66	57.22	74.00	-16.78

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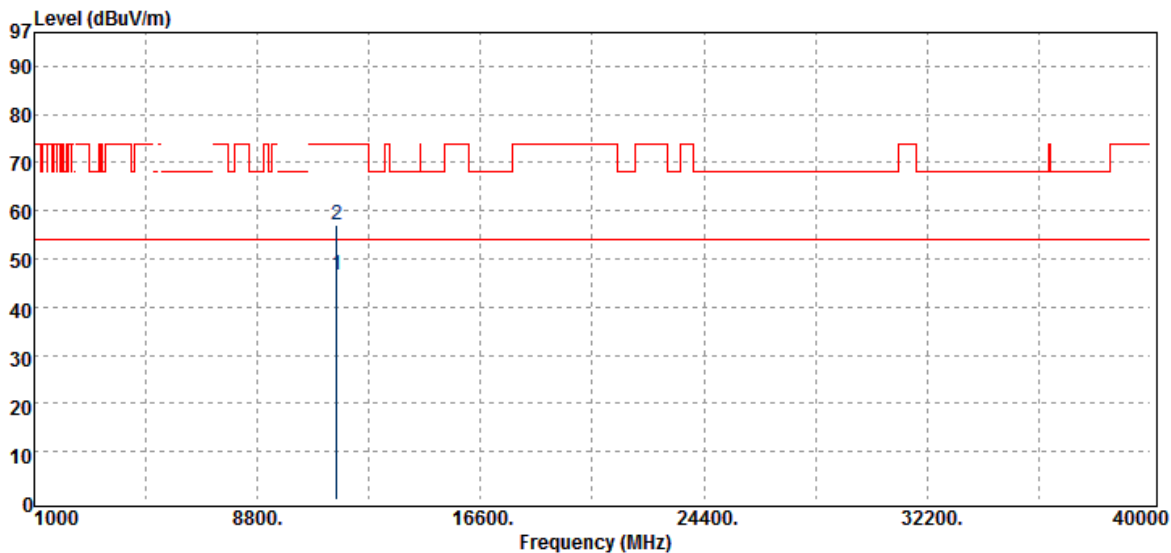
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Operation Band :802.11aB4
 Fundamental Frequency :5785 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11570.00	Average	24.85	21.66	46.51	54.00	-7.49
11570.00	Peak	35.42	21.66	57.08	74.00	-16.92

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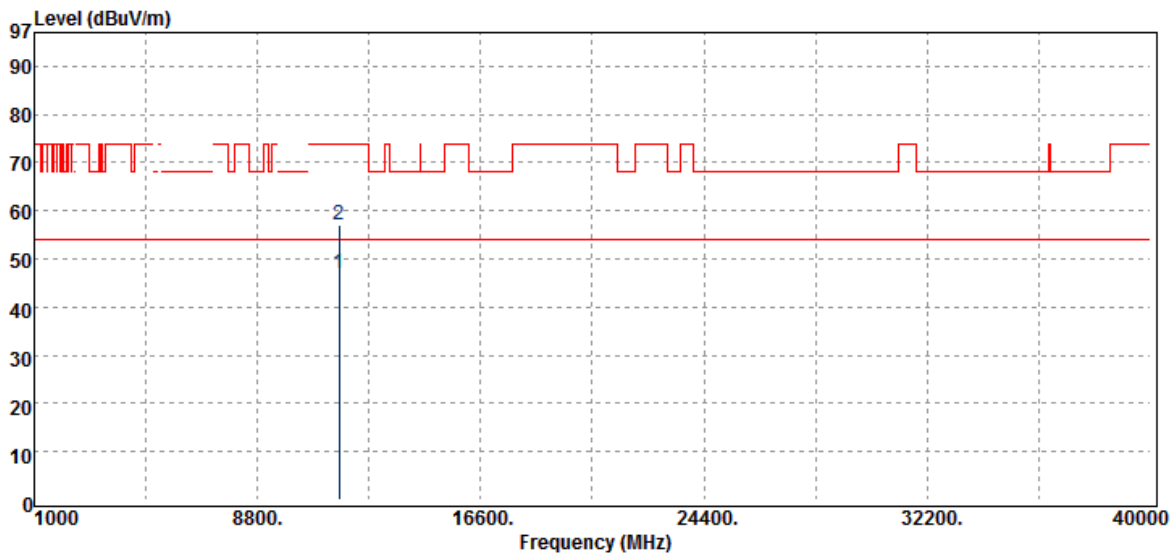
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Operation Band :802.11aB4
 Fundamental Frequency :5825 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	25.29	21.60	46.89	54.00	-7.11
11650.00	Peak	35.58	21.60	57.18	74.00	-16.82

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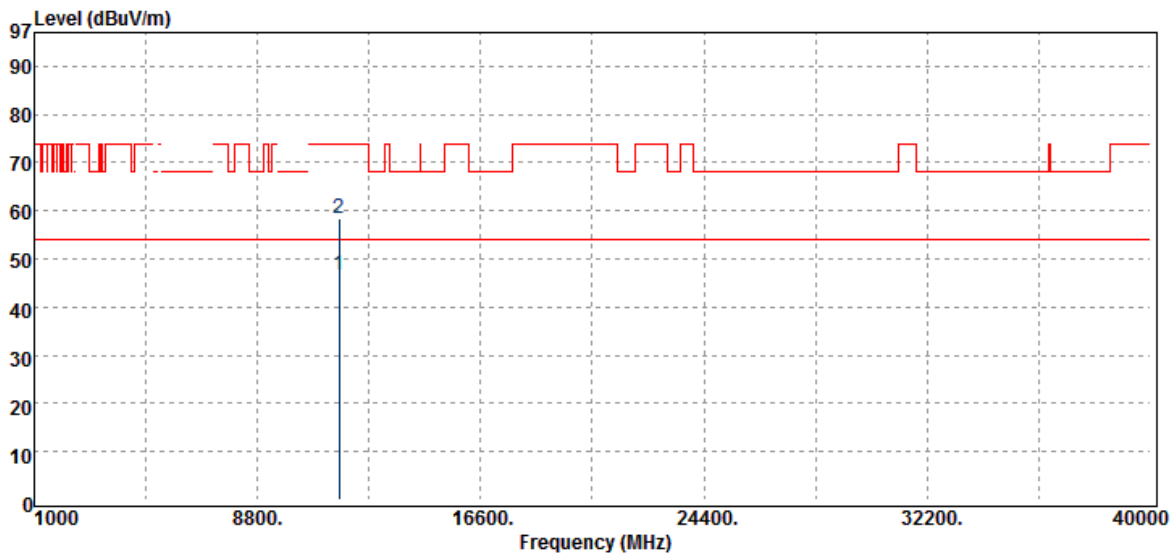
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Operation Band :802.11aB4
 Fundamental Frequency :5825 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	25.13	21.60	46.73	54.00	-7.27
11650.00	Peak	36.95	21.60	58.55	74.00	-15.45

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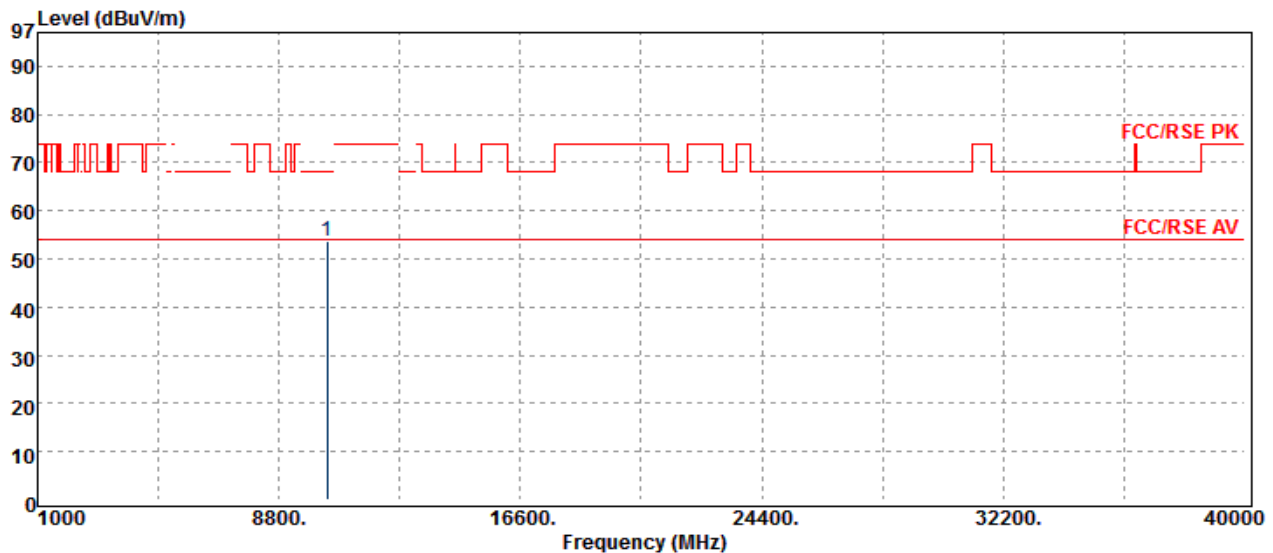
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Band	:802.11n20B1	Test Date	:2018-07-12
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
10360.00	Peak	33.95	19.71	53.66	68.20	-14.54

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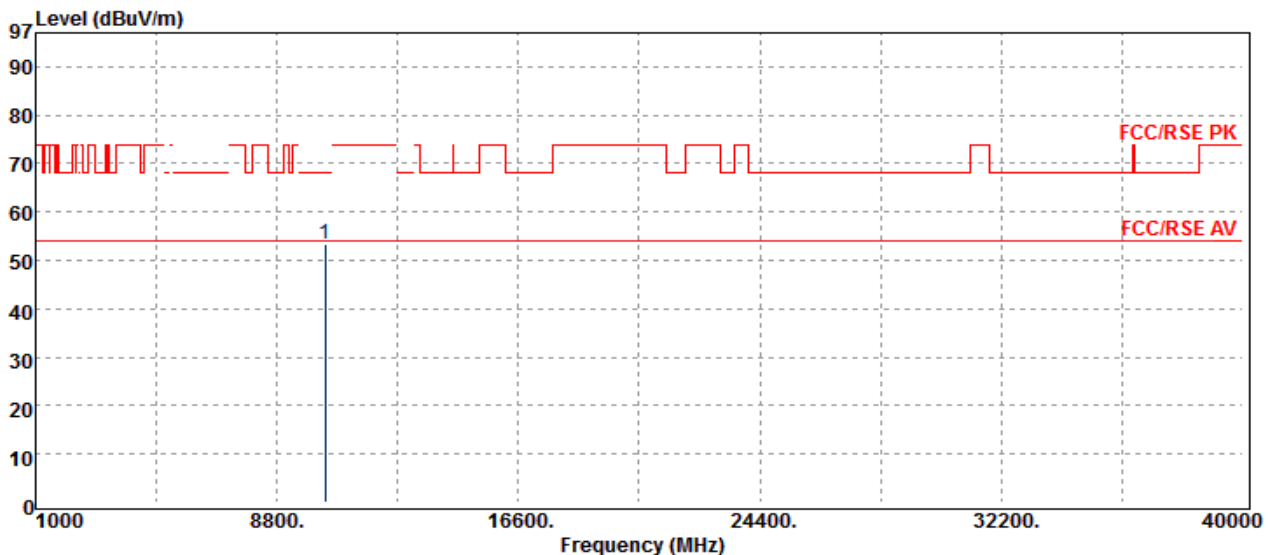
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20B1
 Fundamental Frequency :5180 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
10360.00	Peak	33.76	19.71	53.47	68.20	-14.73

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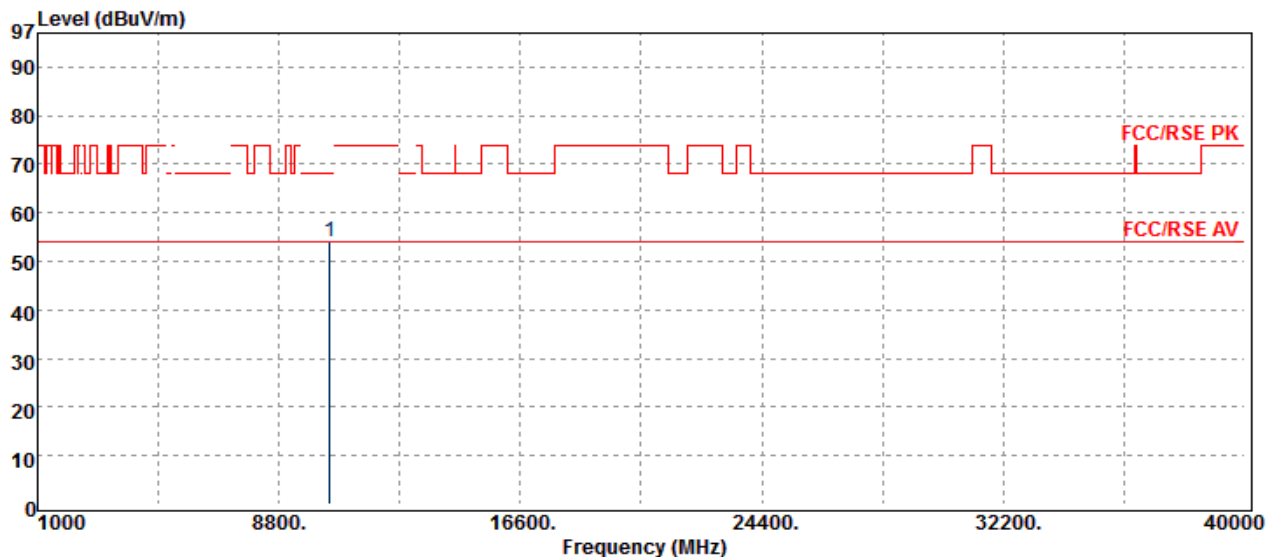
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20B1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2018-07-12
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10440.00	Peak	33.96	20.05	54.01	68.20	-14.19

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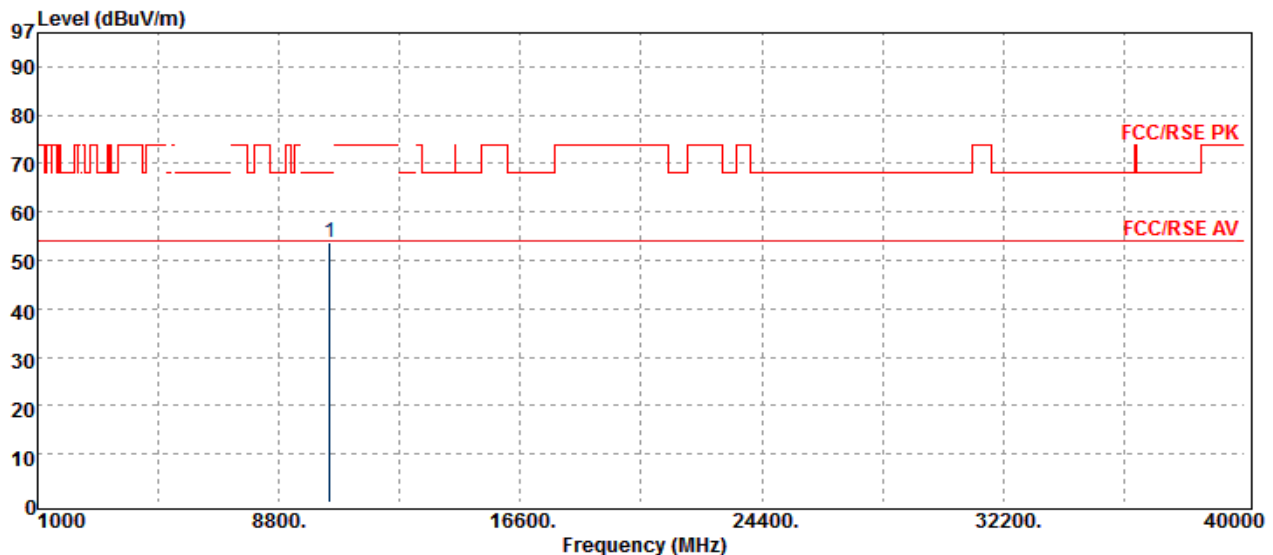
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20B1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2018-07-12
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10440.00	Peak	33.64	20.05	53.69	68.20	-14.51

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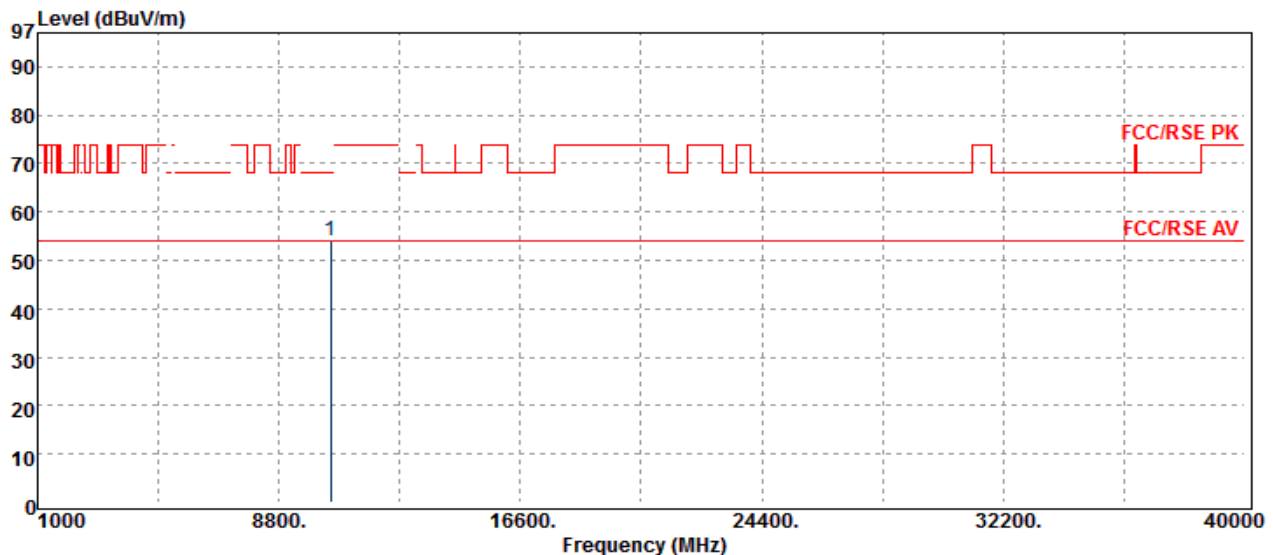
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Member of SGS Group

Operation Band :802.11n20B1
 Fundamental Frequency :5240 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	33.88	20.07	53.95	68.20	-14.25

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Operation Band :802.11n20B1
 Fundamental Frequency :5240 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
10480.00	Peak	34.02	20.07	54.09	68.20	-14.11

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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Band	:802.11n20B2	Test Date	:2018-07-12
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	Peak	33.50	20.00	53.50	68.20	-14.70

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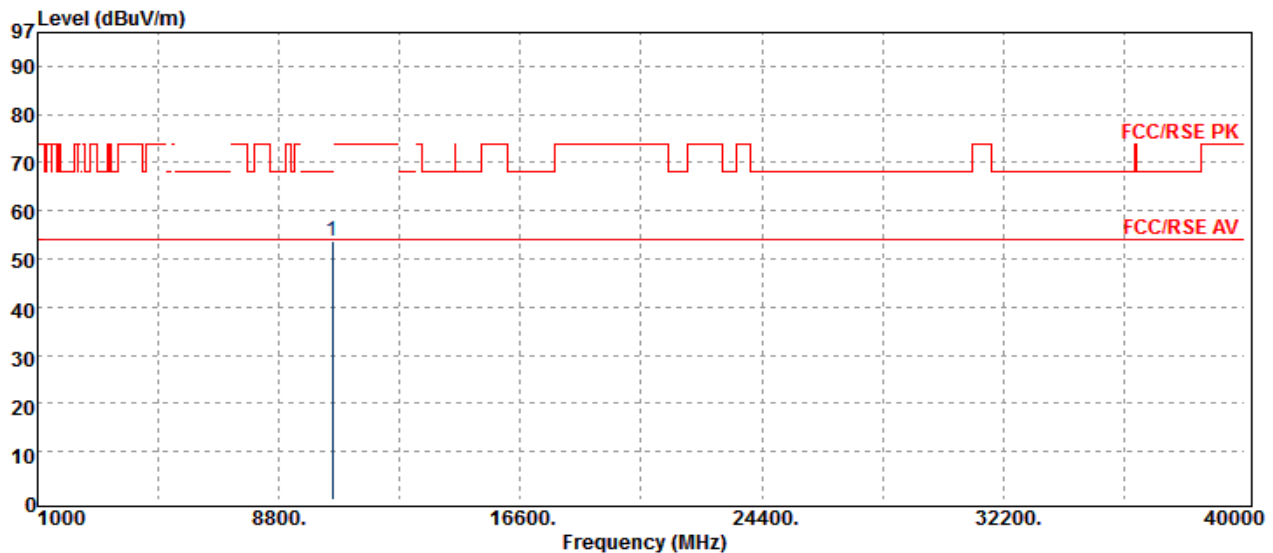
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Operation Band :802.11n20B2
 Fundamental Frequency :5260 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	Peak	33.59	20.00	53.59	68.20	-14.61

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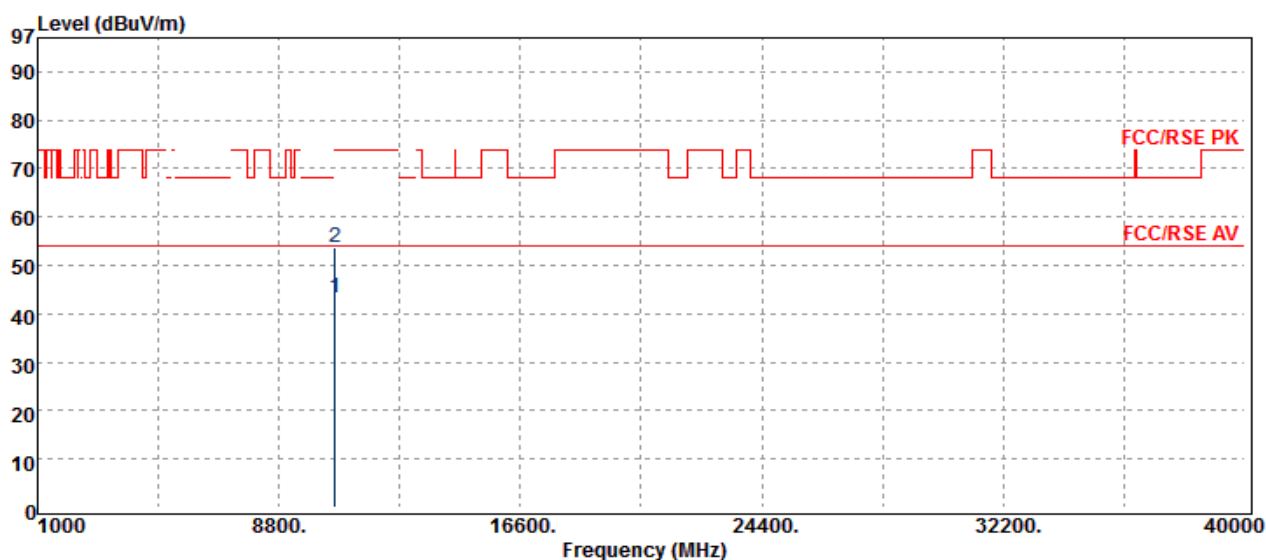
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Member of SGS Group

Operation Band :802.11n20B2
 Fundamental Frequency :5300 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	22.79	20.38	43.17	54.00	-10.83
10600.00	Peak	33.21	20.38	53.59	74.00	-20.41

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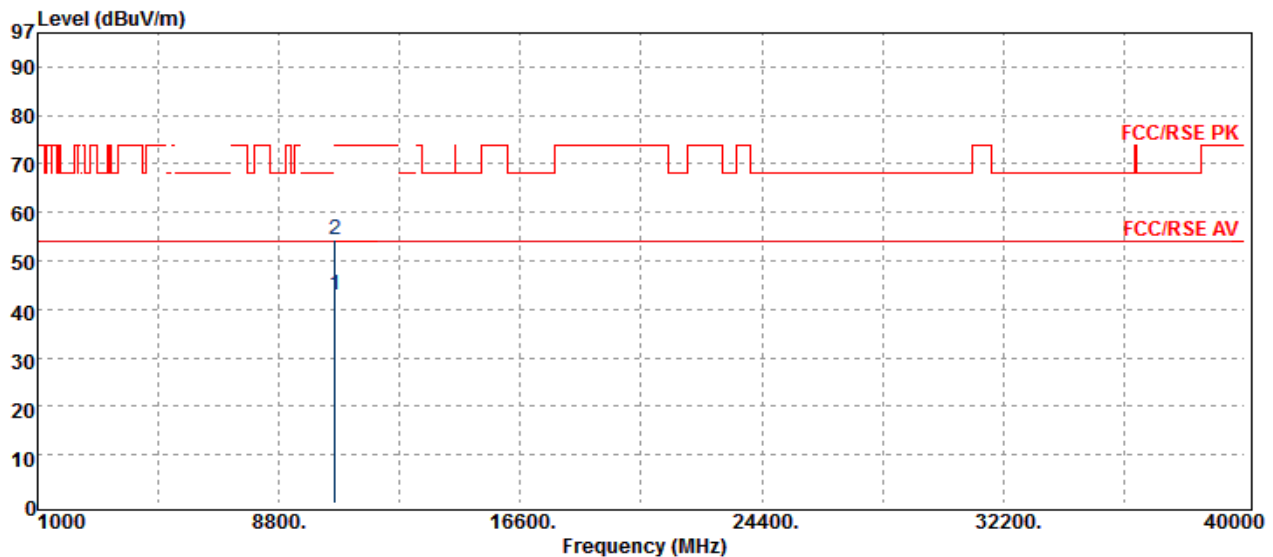
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Operation Band :802.11n20B2
 Fundamental Frequency :5300 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	22.56	20.38	42.94	54.00	-11.06
10600.00	Peak	33.90	20.38	54.28	74.00	-19.72

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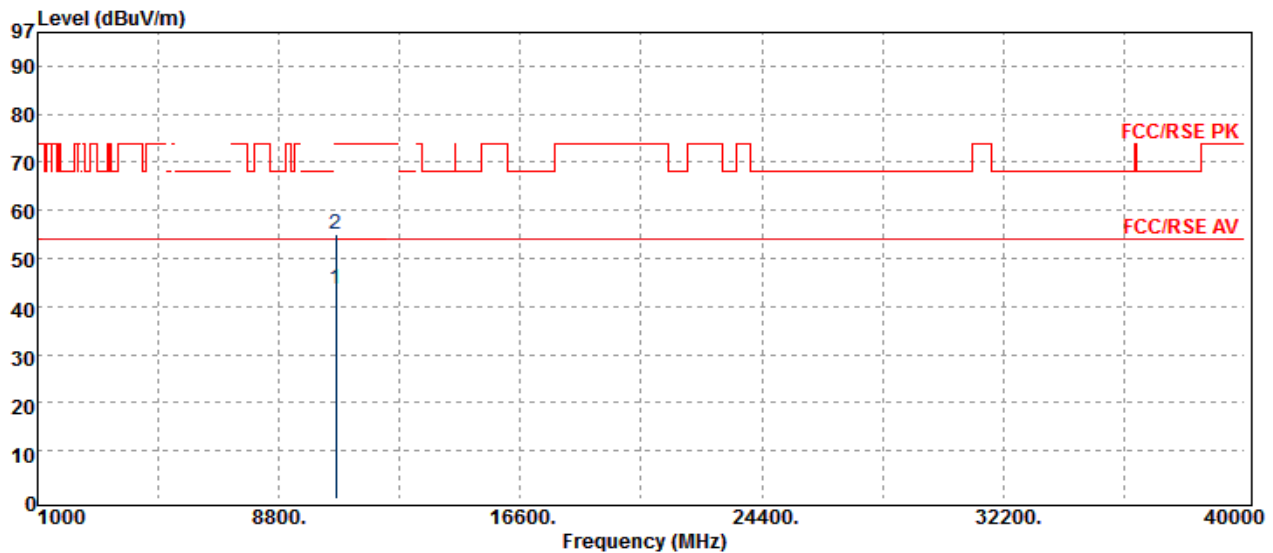
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Member of SGS Group

Operation Band :802.11n20B2
 Fundamental Frequency :5320 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	23.03	20.44	43.47	54.00	-10.53
10640.00	Peak	34.51	20.44	54.95	74.00	-19.05

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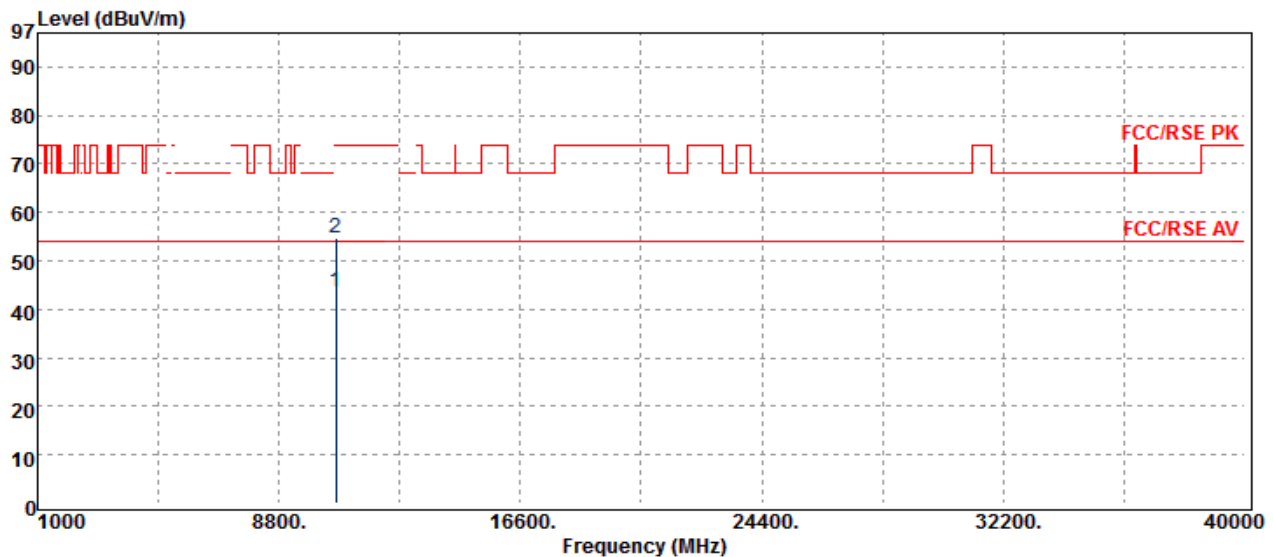
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Operation Band :802.11n20B2
 Fundamental Frequency :5320 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	23.20	20.44	43.64	54.00	-10.36
10640.00	Peak	34.36	20.44	54.80	74.00	-19.20

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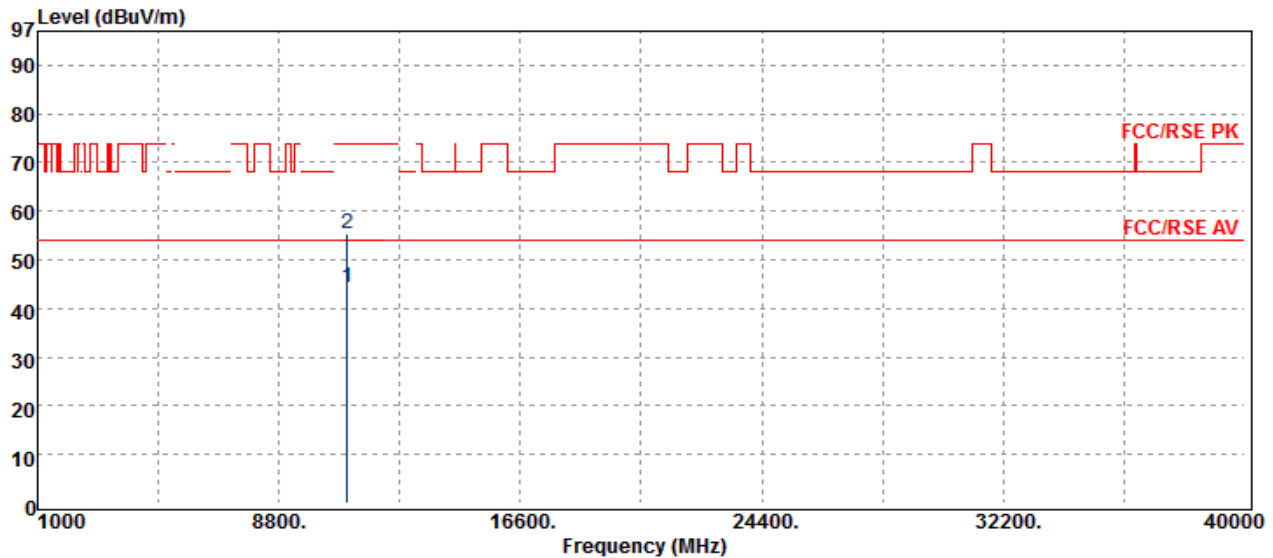
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Band	:802.11n20B3	Test Date	:2018-07-12
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	23.02	21.37	44.39	54.00	-9.61
11000.00	Peak	33.89	21.37	55.26	74.00	-18.74

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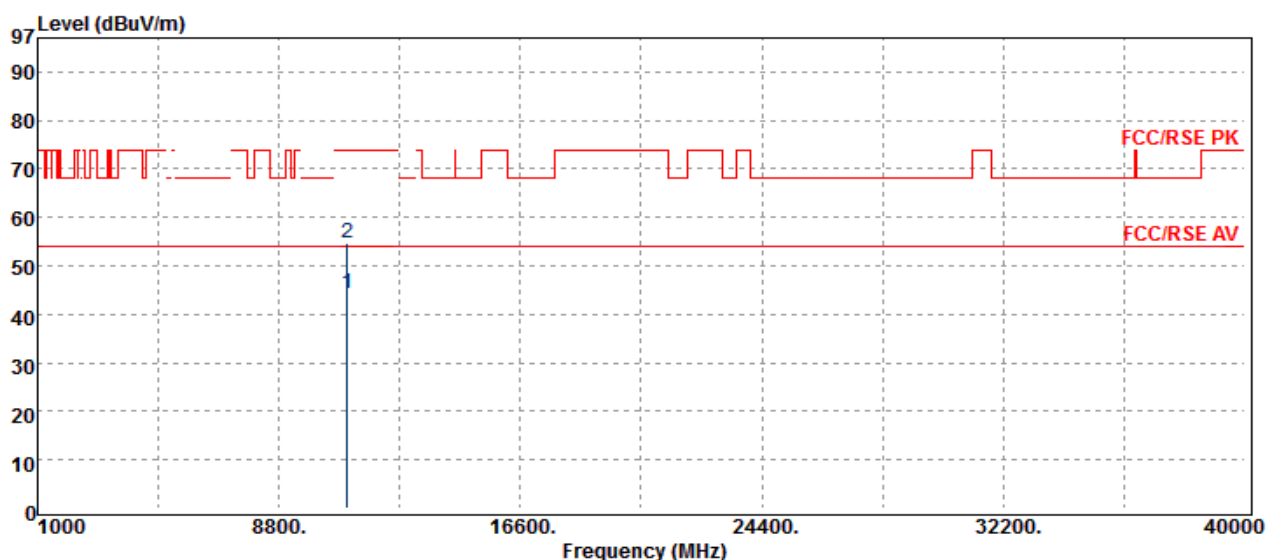
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Operation Band :802.11n20B3
 Fundamental Frequency :5500 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	22.78	21.37	44.15	54.00	-9.85
11000.00	Peak	33.46	21.37	54.83	74.00	-19.17

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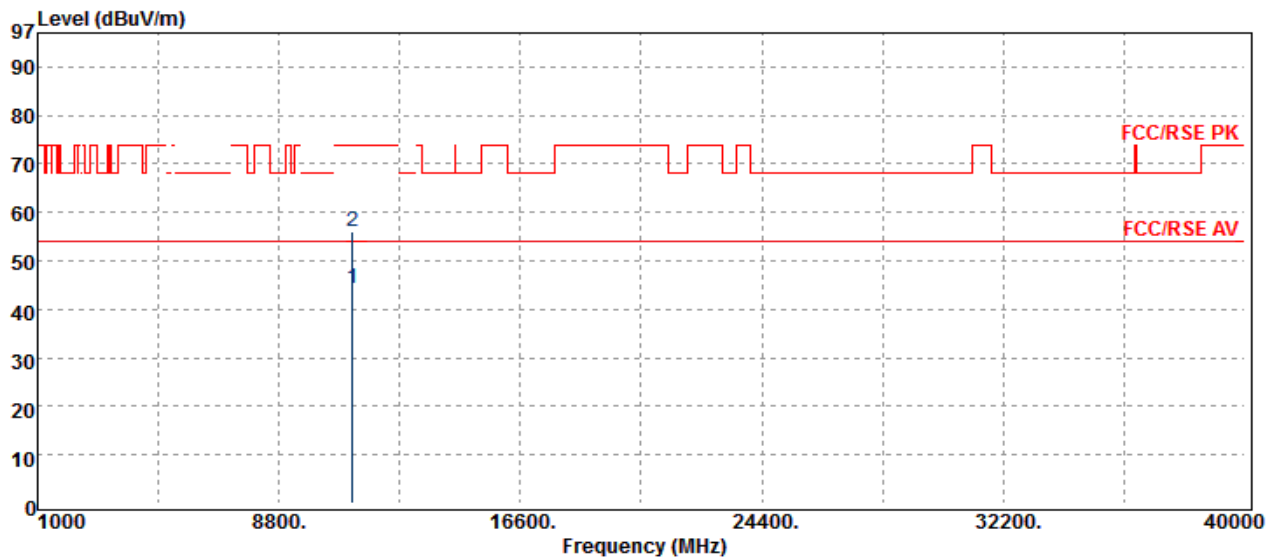
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Operation Band :802.11n20B3
 Fundamental Frequency :5580 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	22.86	21.51	44.37	54.00	-9.63
11160.00	Peak	34.42	21.51	55.93	74.00	-18.07

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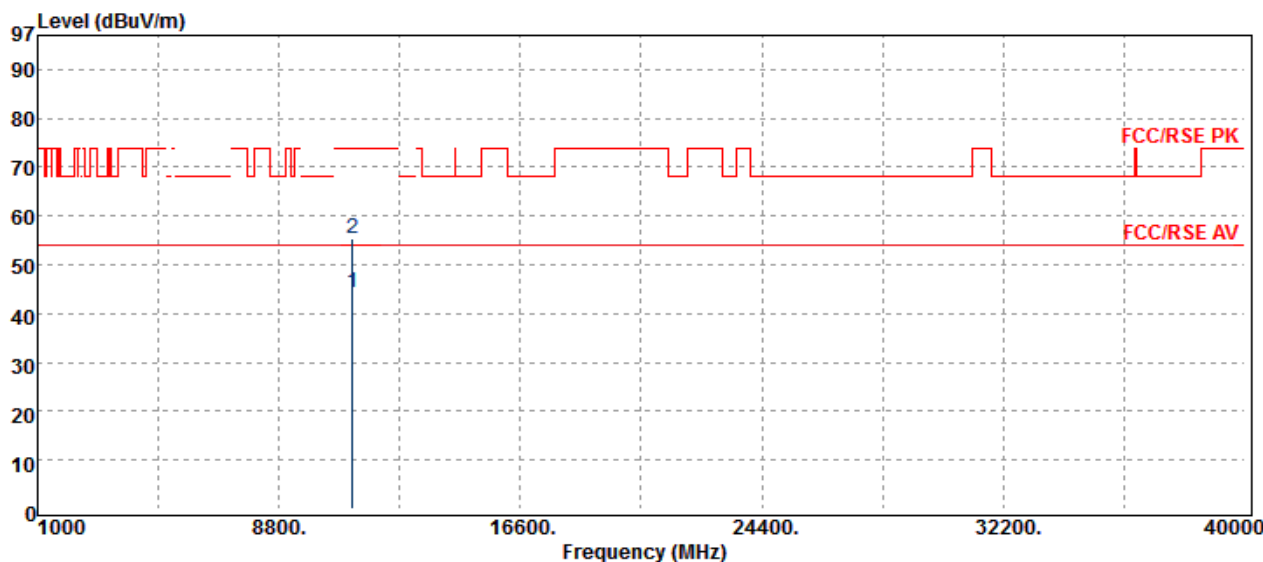
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Operation Band :802.11n20B3
 Fundamental Frequency :5580 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	22.90	21.51	44.41	54.00	-9.59
11160.00	Peak	33.83	21.51	55.34	74.00	-18.66

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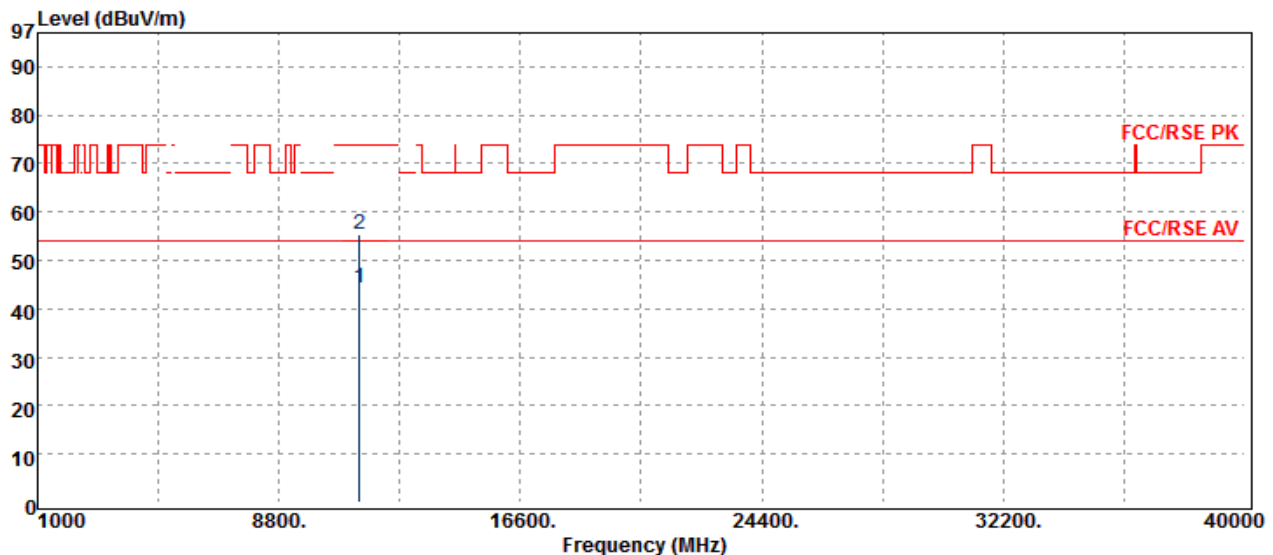
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Operation Band :802.11n20B3
 Fundamental Frequency :5700 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	22.84	21.62	44.46	54.00	-9.54
11400.00	Peak	33.71	21.62	55.33	74.00	-18.67

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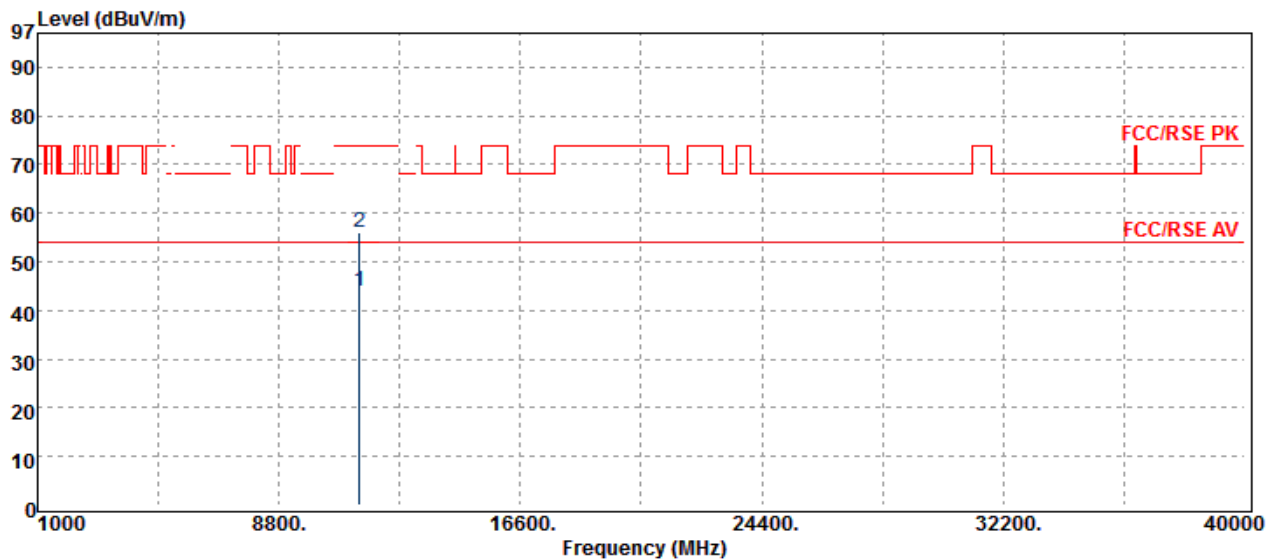
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Operation Band :802.11n20B3
 Fundamental Frequency :5700 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	22.41	21.62	44.03	54.00	-9.97
11400.00	Peak	34.45	21.62	56.07	74.00	-17.93

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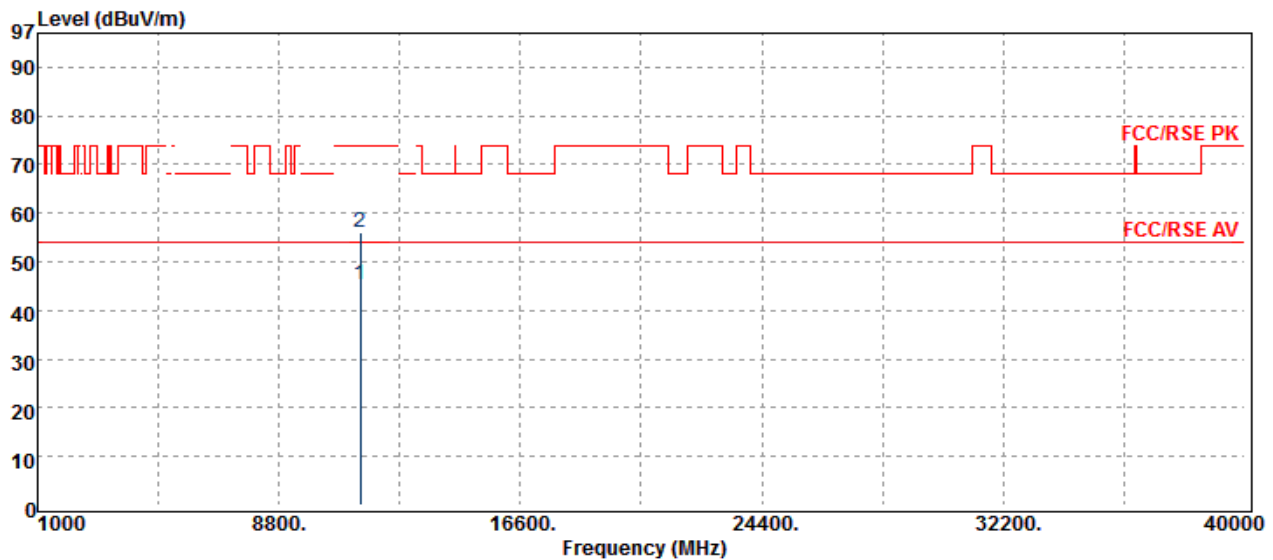
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5720MHz

Operation Band	:802.11n20B3	Test Date	:2018-07-12
Fundamental Frequency	:5720 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH CROSS	Engineer	:Kane
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11440.00	Average	23.72	21.59	45.31	54.00	-8.69
11440.00	Peak	34.51	21.59	56.10	74.00	-17.90

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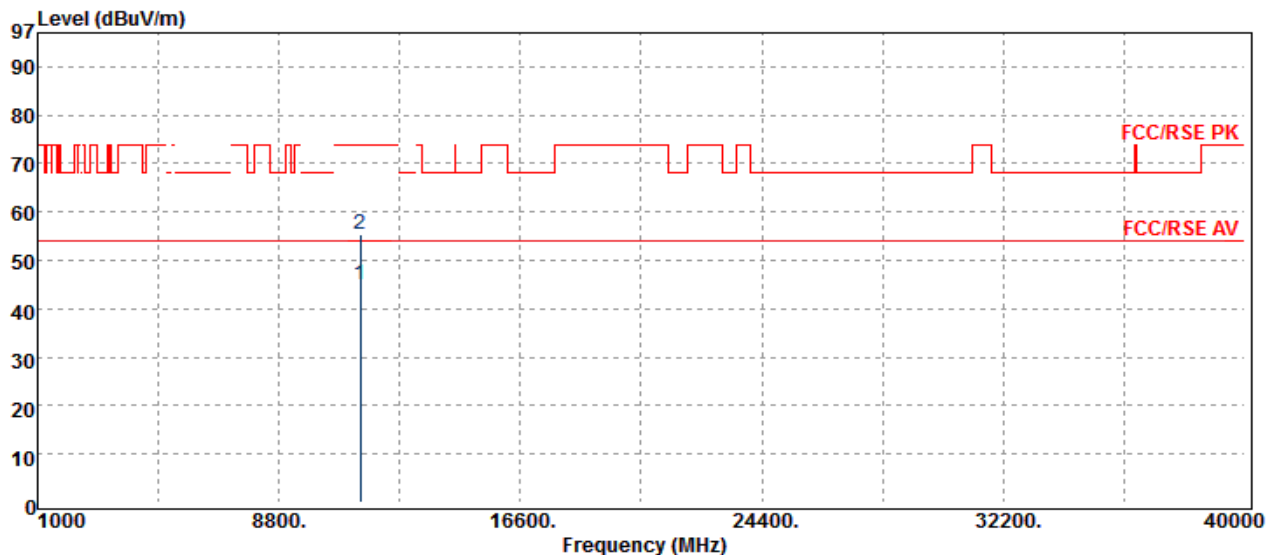
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Operation Band :802.11n20B3
 Fundamental Frequency :5720 MHz
 Operation Mode :Tx CH CROSS
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	23.44	21.59	45.03	54.00	-8.97
11440.00	Peak	33.68	21.59	55.27	74.00	-18.73

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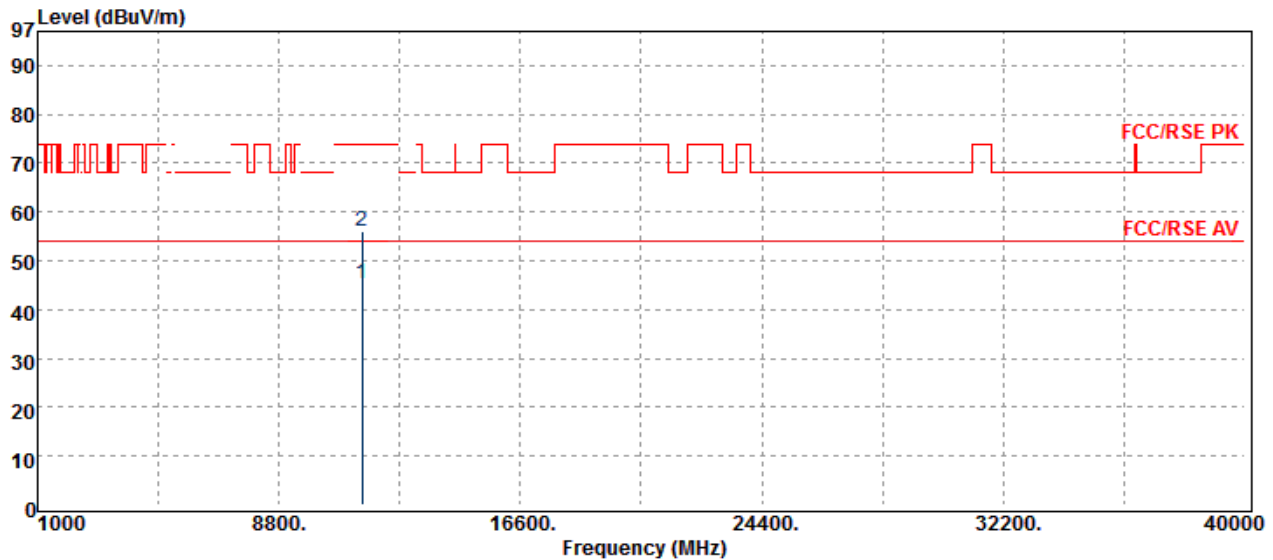
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850MHz

Operation Band	:802.11n20B4	Test Date	:2018-07-12
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	23.72	21.61	45.33	54.00	-8.67
11490.00	Peak	34.37	21.61	55.98	74.00	-18.02

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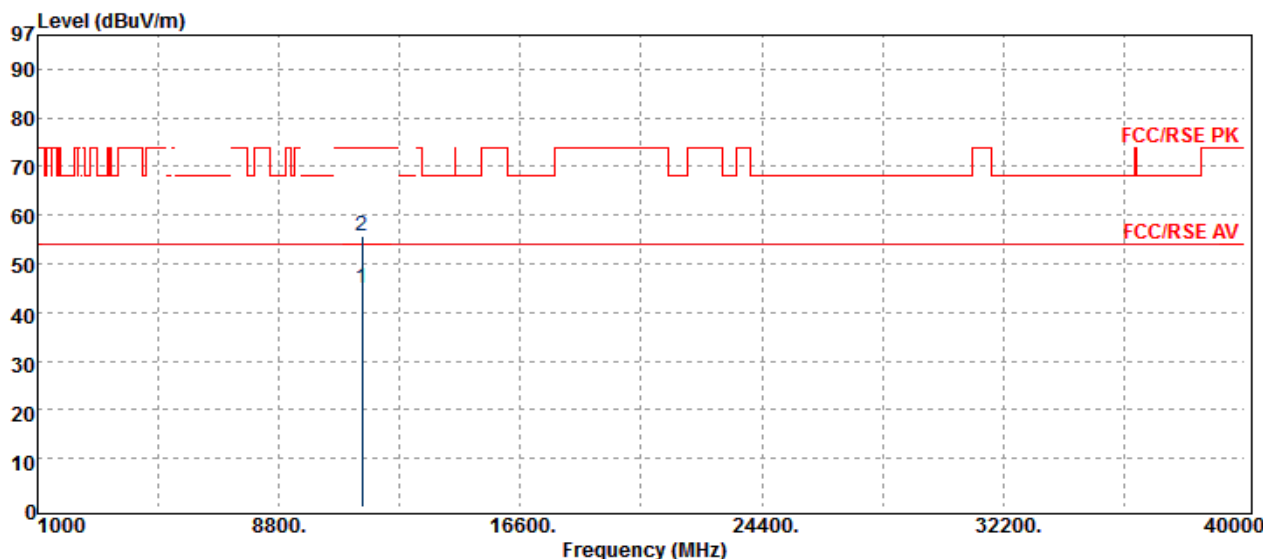
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Operation Band :802.11n20B4
 Fundamental Frequency :5745 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	23.21	21.61	44.82	54.00	-9.18
11490.00	Peak	34.18	21.61	55.79	74.00	-18.21

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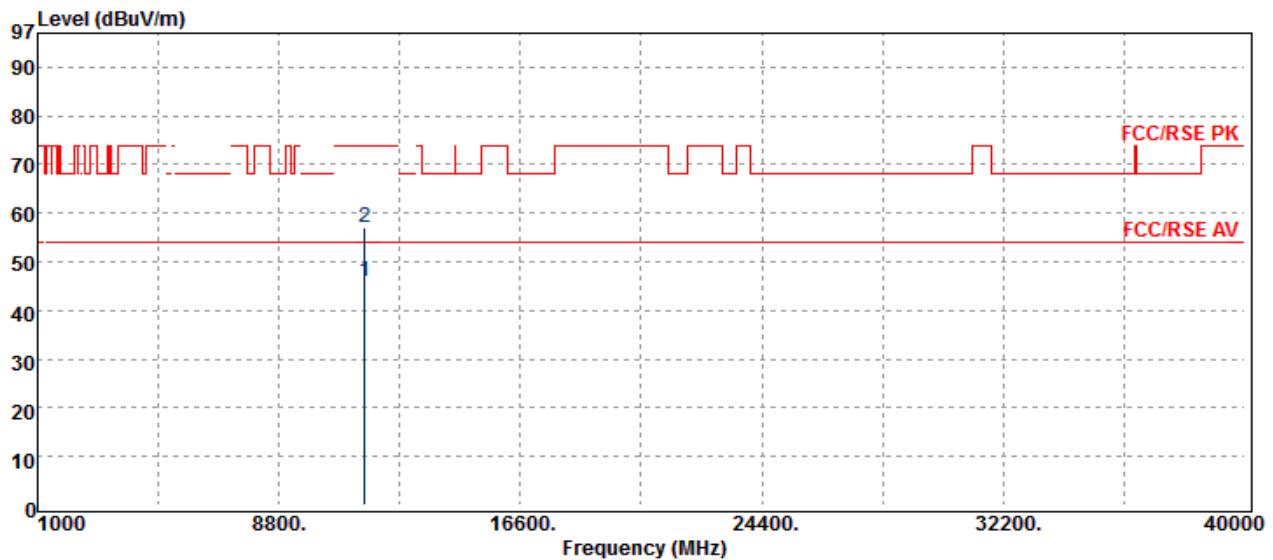
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Operation Band :802.11n20B4
 Fundamental Frequency :5785 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	24.45	21.66	46.11	54.00	-7.89
11570.00	Peak	35.38	21.66	57.04	74.00	-16.96

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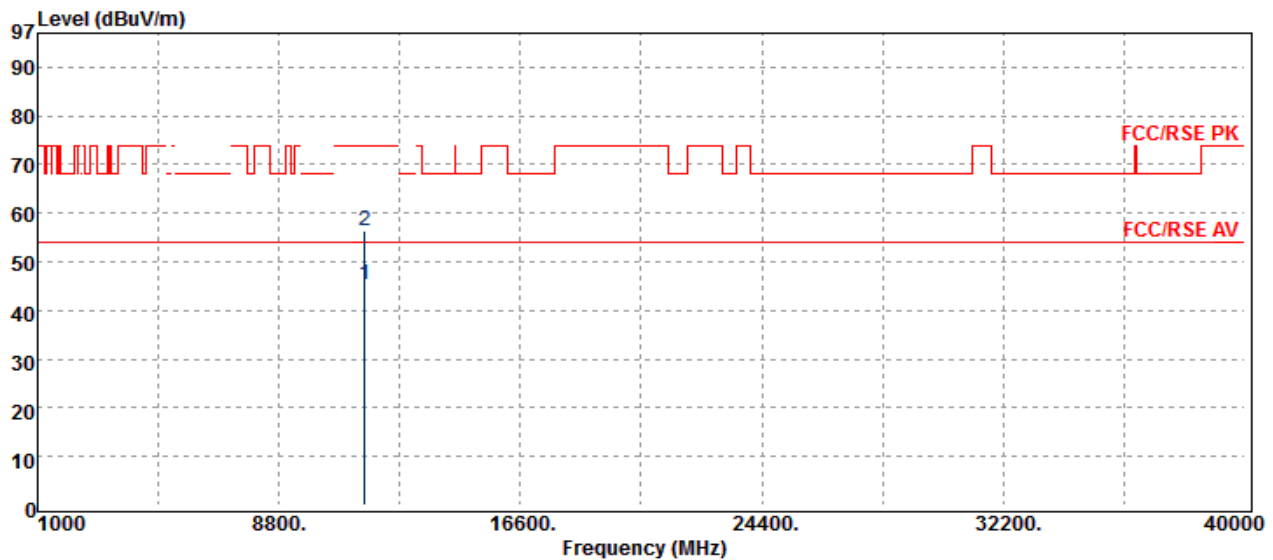
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Operation Band :802.11n20B4
Fundamental Frequency :5785 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2018-07-12
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	23.61	21.66	45.27	54.00	-8.73
11570.00	Peak	34.74	21.66	56.40	74.00	-17.60

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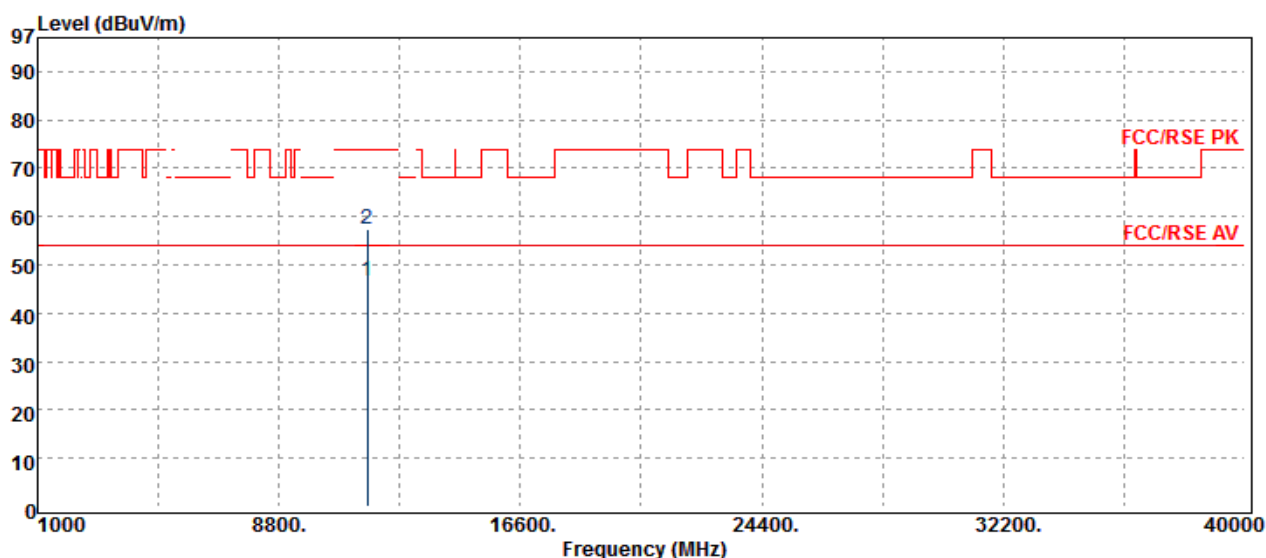
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Operation Band :802.11n20B4
 Fundamental Frequency :5825 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	24.99	21.60	46.59	54.00	-7.41
11650.00	Peak	35.70	21.60	57.30	74.00	-16.70

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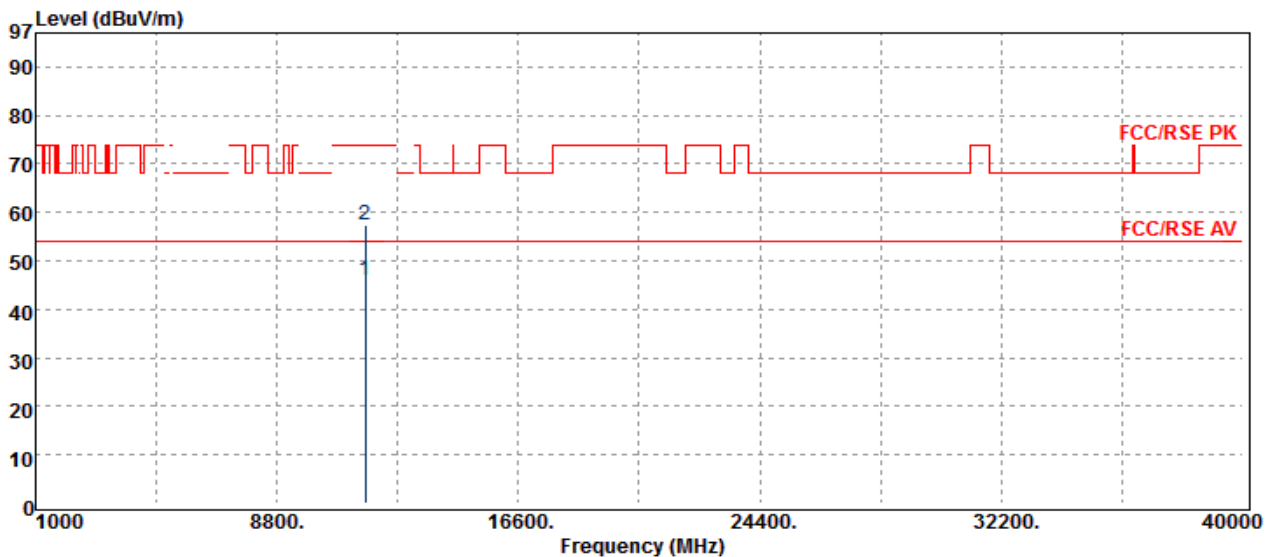
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Operation Band :802.11n20B4
 Fundamental Frequency :5825 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	24.36	21.60	45.96	54.00	-8.04
11650.00	Peak	35.82	21.60	57.42	74.00	-16.58

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Band	:802.11n40B1	Test Date	:2018-07-12
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10380.00	Peak	33.57	19.78	53.35	68.20	-14.85

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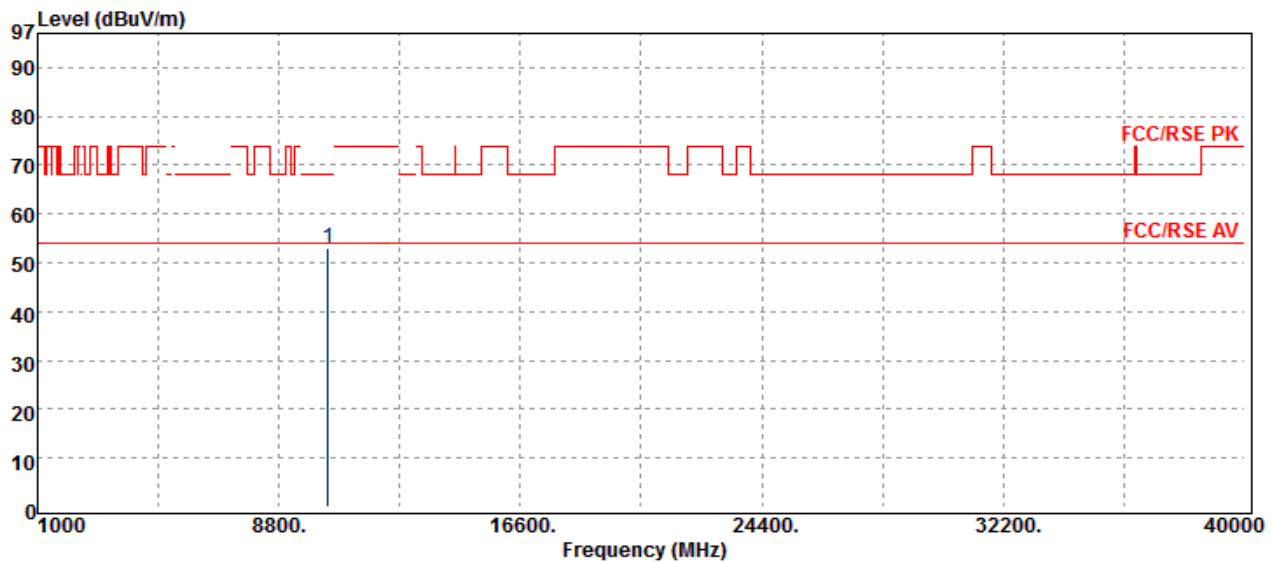
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Operation Band :802.11n40B1
 Fundamental Frequency :5190 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-12
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10380.00	Peak	33.25	19.78	53.03	68.20	-15.17

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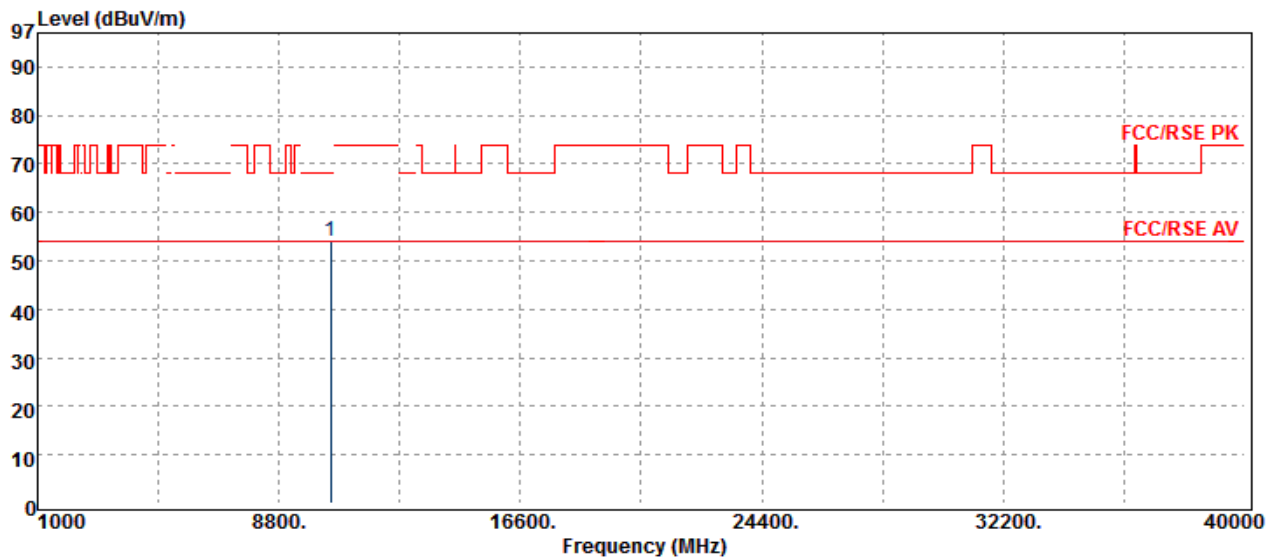
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Operation Band :802.11n40B1
 Fundamental Frequency :5230 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10460.00	Peak	34.09	20.07	54.16	68.20	-14.04

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Operation Band :802.11n40B1
 Fundamental Frequency :5230 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10460.00	Peak	34.23	20.07	54.30	68.20	-13.90

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Band	:802.11n40B2	Test Date	:2018-07-13
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10540.00	Peak	34.40	20.02	54.42	68.20	-13.78

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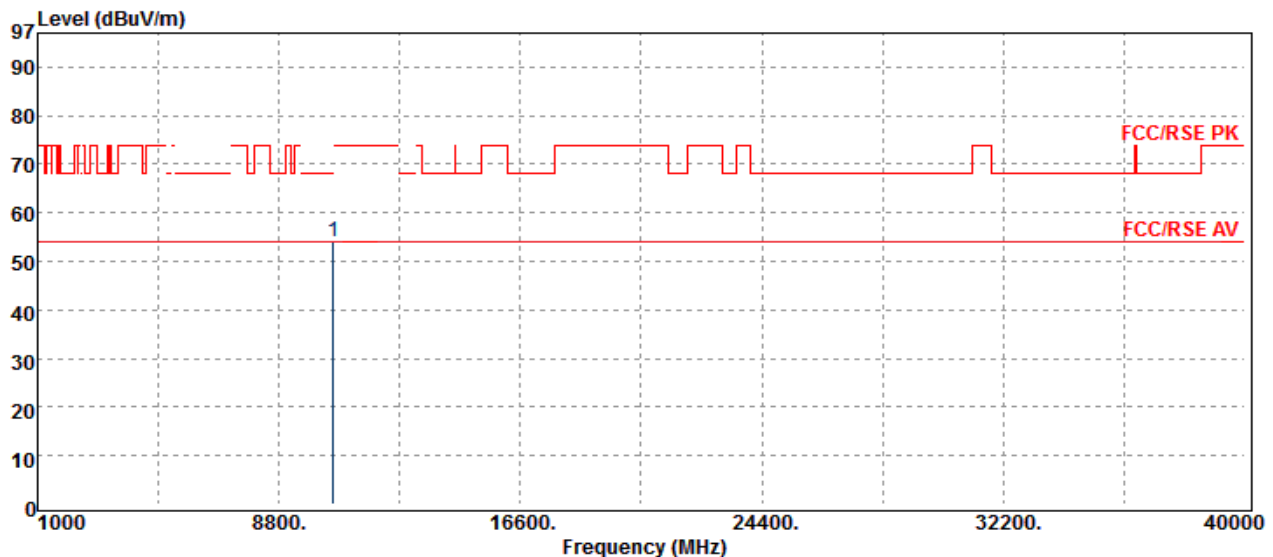
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Operation Band :802.11n40B2
 Fundamental Frequency :5270 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10540.00	Peak	34.02	20.02	54.04	68.20	-14.16

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Operation Band :802.11n40B2
 Fundamental Frequency :5310 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	Average	22.95	20.41	43.36	54.00	-10.64
10620.00	Peak	35.64	20.41	56.05	74.00	-17.95

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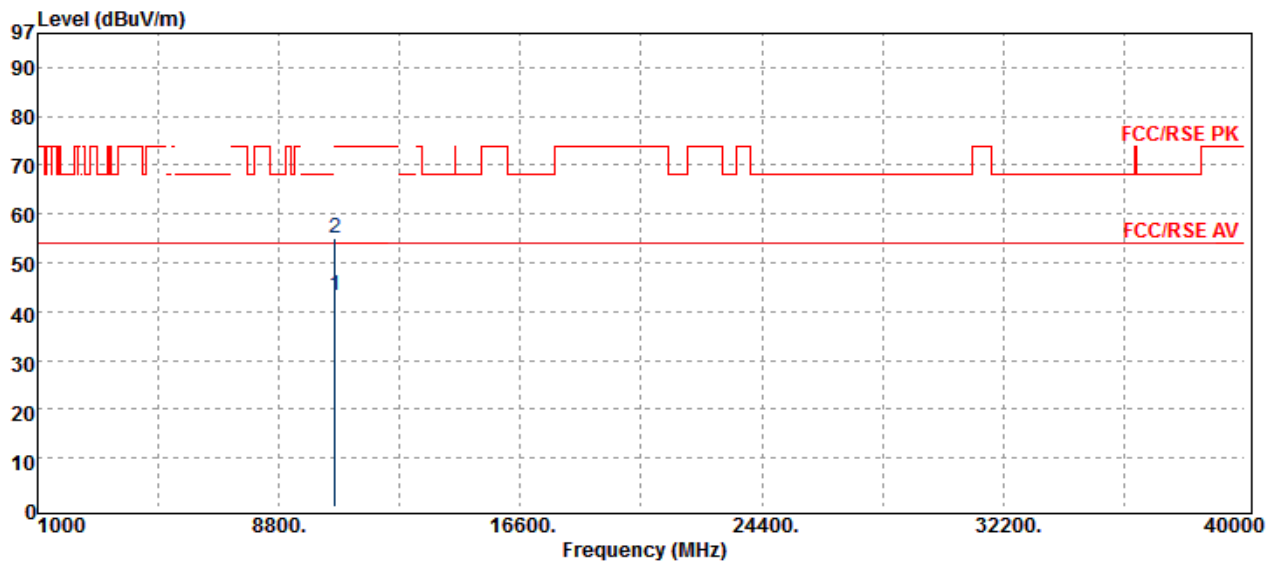
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Operation Band :802.11n40B2
 Fundamental Frequency :5310 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	Average	22.82	20.41	43.23	54.00	-10.77
10620.00	Peak	34.62	20.41	55.03	74.00	-18.97

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Band	:802.11n40B3	Test Date	:2018-07-13
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11020.00	Average	22.82	21.46	44.28	54.00	-9.72
11020.00	Peak	33.55	21.46	55.01	74.00	-18.99

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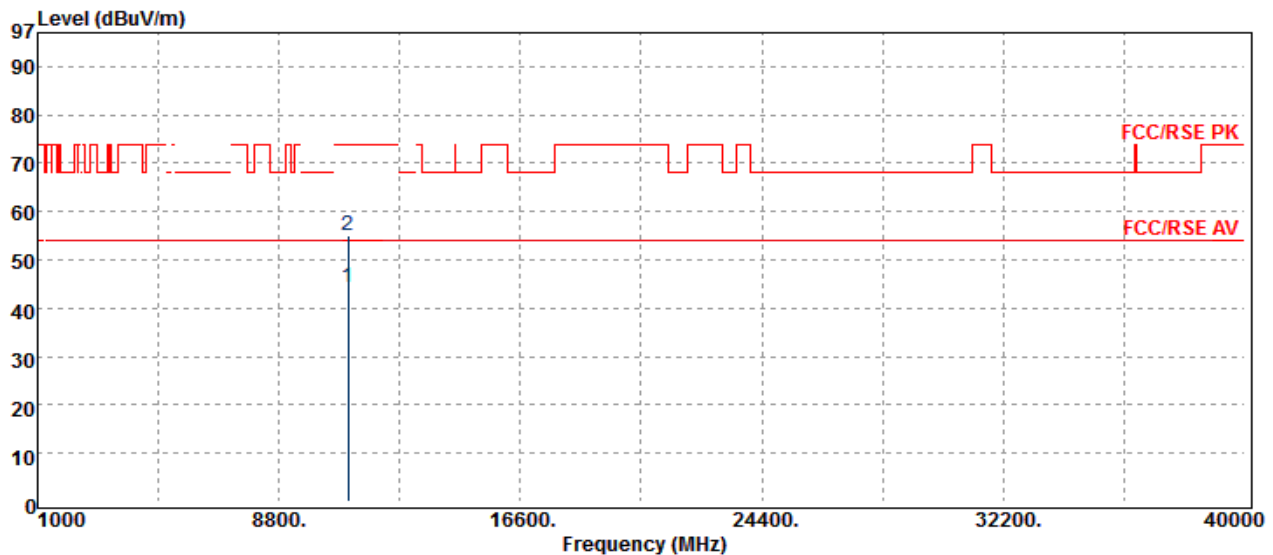
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n40B3
 Fundamental Frequency :5510 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	Average	22.83	21.46	44.29	54.00	-9.71
11020.00	Peak	33.46	21.46	54.92	74.00	-19.08

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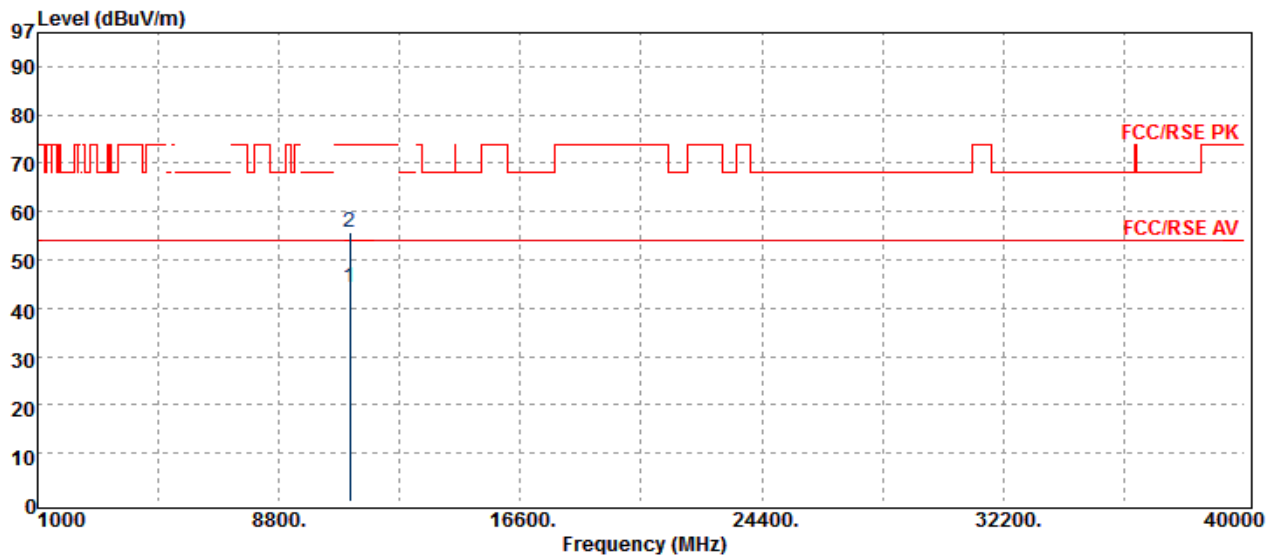
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n40B3
 Fundamental Frequency :5550 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Average	22.69	21.53	44.22	54.00	-9.78
11100.00	Peak	34.17	21.53	55.70	74.00	-18.30

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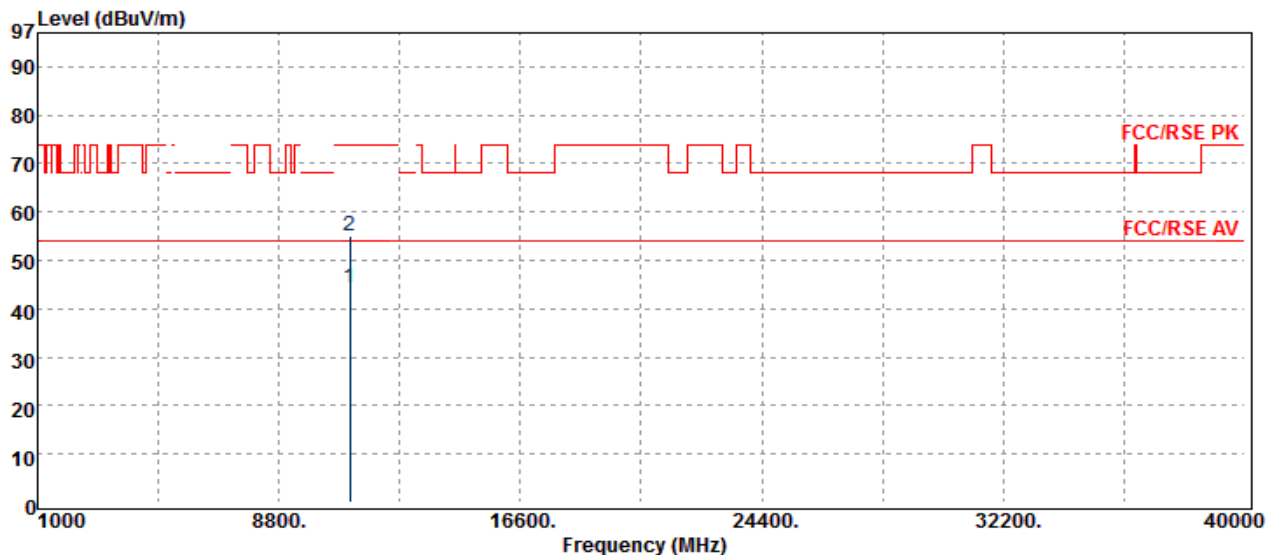
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Operation Band :802.11n40B3
Fundamental Frequency :5550 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2018-07-13
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Average	22.80	21.53	44.33	54.00	-9.67
11100.00	Peak	33.62	21.53	55.15	74.00	-18.85

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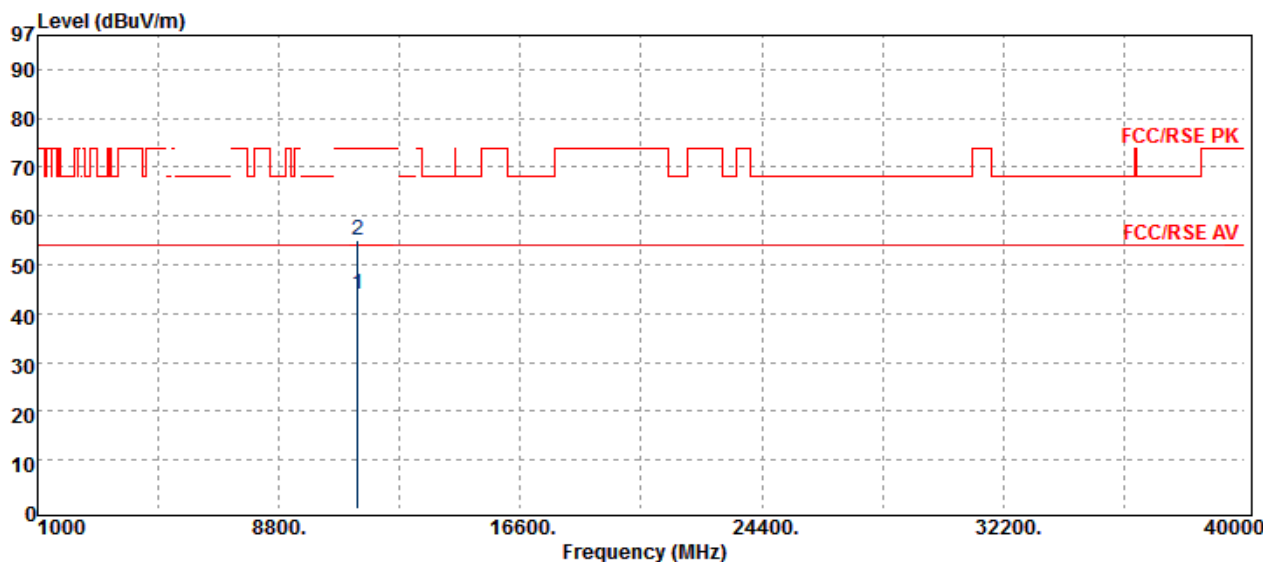
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Member of SGS Group

Operation Band :802.11n40B3
 Fundamental Frequency :5670 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11340.00	Average	22.33	21.54	43.87	54.00	-10.13
11340.00	Peak	33.44	21.54	54.98	74.00	-19.02

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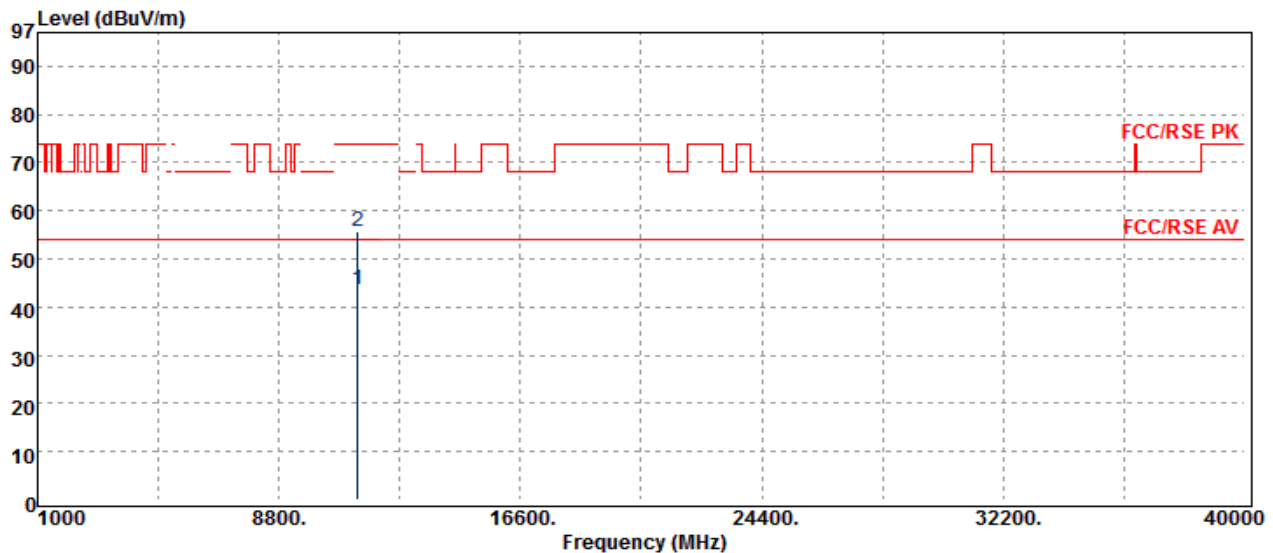
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Operation Band :802.11n40B3
 Fundamental Frequency :5670 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	Average	22.17	21.54	43.71	54.00	-10.29
11340.00	Peak	34.18	21.54	55.72	74.00	-18.28

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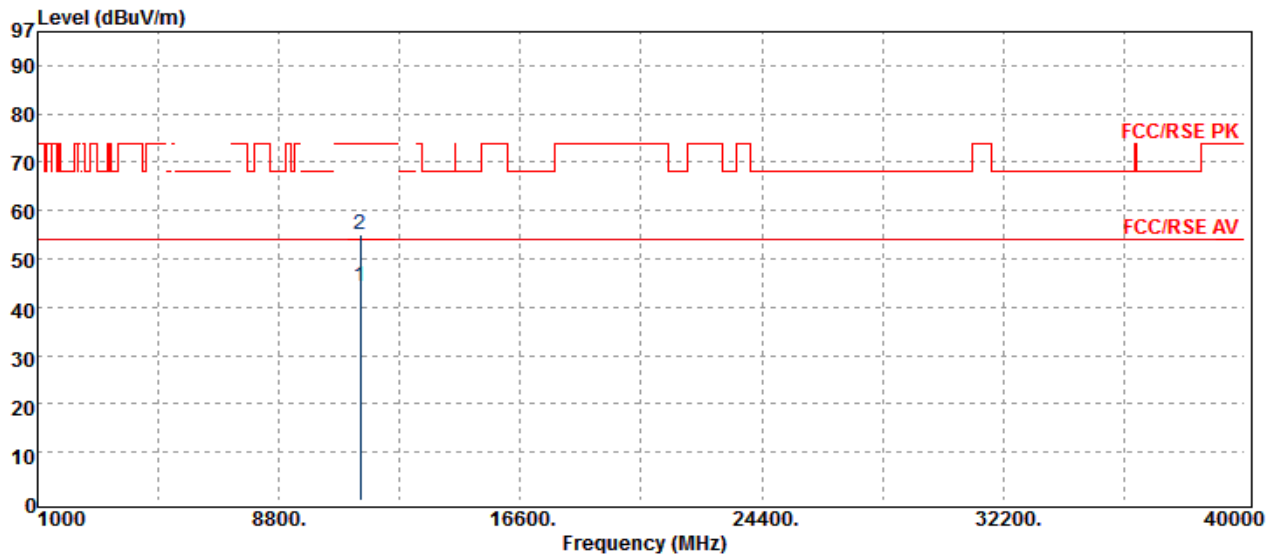
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5710MHz

Operation Band	:802.11n40B3	Test Date	:2018-07-13
Fundamental Frequency	:5710 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH CROSS	Engineer	:Kane
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	Average	22.59	21.60	44.19	54.00	-9.81
11420.00	Peak	33.60	21.60	55.20	74.00	-18.80

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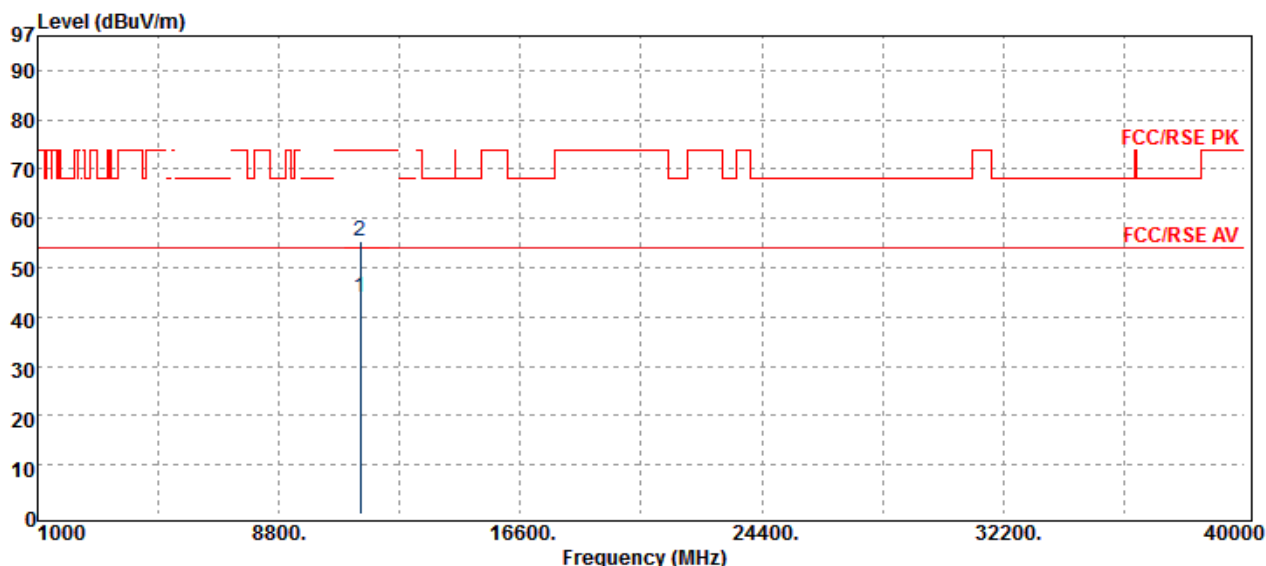
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Operation Band :802.11n40B3
 Fundamental Frequency :5710 MHz
 Operation Mode :Tx CH CROSS
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	Average	22.33	21.60	43.93	54.00	-10.07
11420.00	Peak	33.78	21.60	55.38	74.00	-18.62

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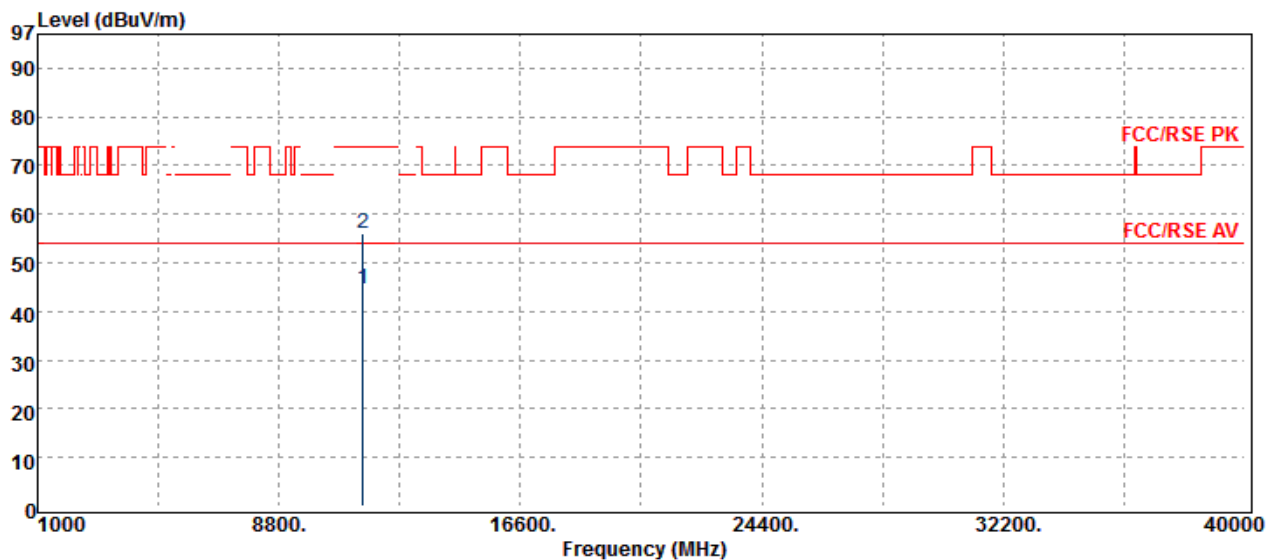
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850MHz

Operation Band	:802.11n40B4	Test Date	:2018-07-13
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11510.00	Average	22.83	21.66	44.49	54.00	-9.51
11510.00	Peak	34.48	21.66	56.14	74.00	-17.86

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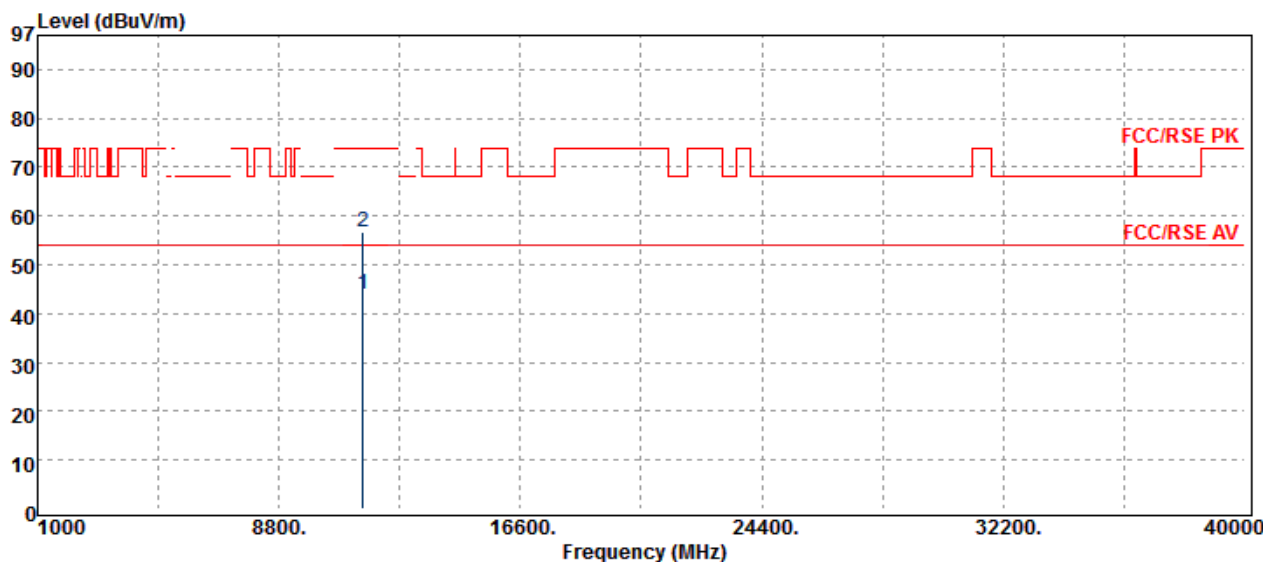
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Operation Band :802.11n40B4
 Fundamental Frequency :5755 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	22.21	21.66	43.87	54.00	-10.13
11510.00	Peak	34.98	21.66	56.64	74.00	-17.36

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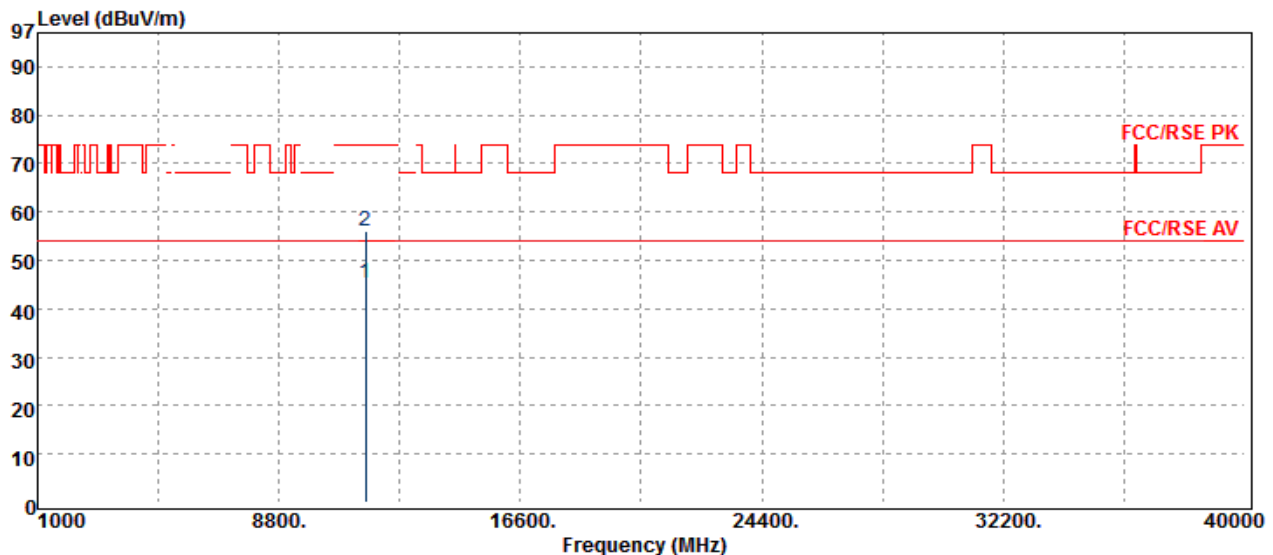
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Operation Band :802.11n40B4
 Fundamental Frequency :5795 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	23.73	21.66	45.39	54.00	-8.61
11590.00	Peak	34.33	21.66	55.99	74.00	-18.01

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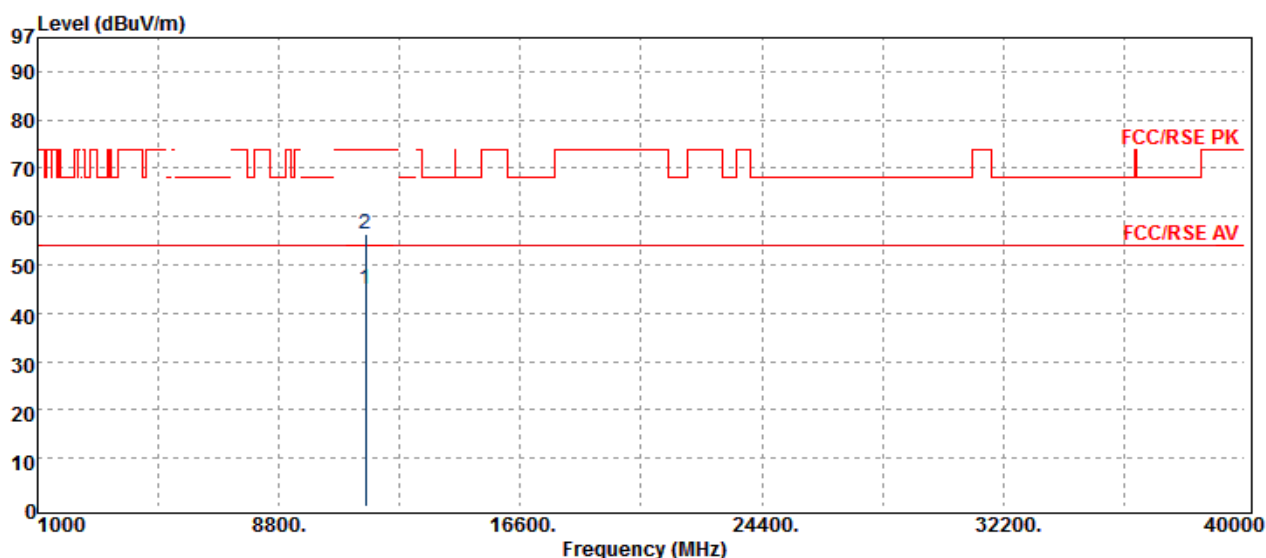
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Operation Band :802.11n40B4
 Fundamental Frequency :5795 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	23.26	21.66	44.92	54.00	-9.08
11590.00	Peak	34.81	21.66	56.47	74.00	-17.53

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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Band :802.11ac80B1
Fundamental Frequency :5210 MHz
Operation Mode :Tx CH LOW
EUT Pol. :H Plane

Test Date :2018-07-13
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	Peak	34.09	19.99	54.08	68.20	-14.12

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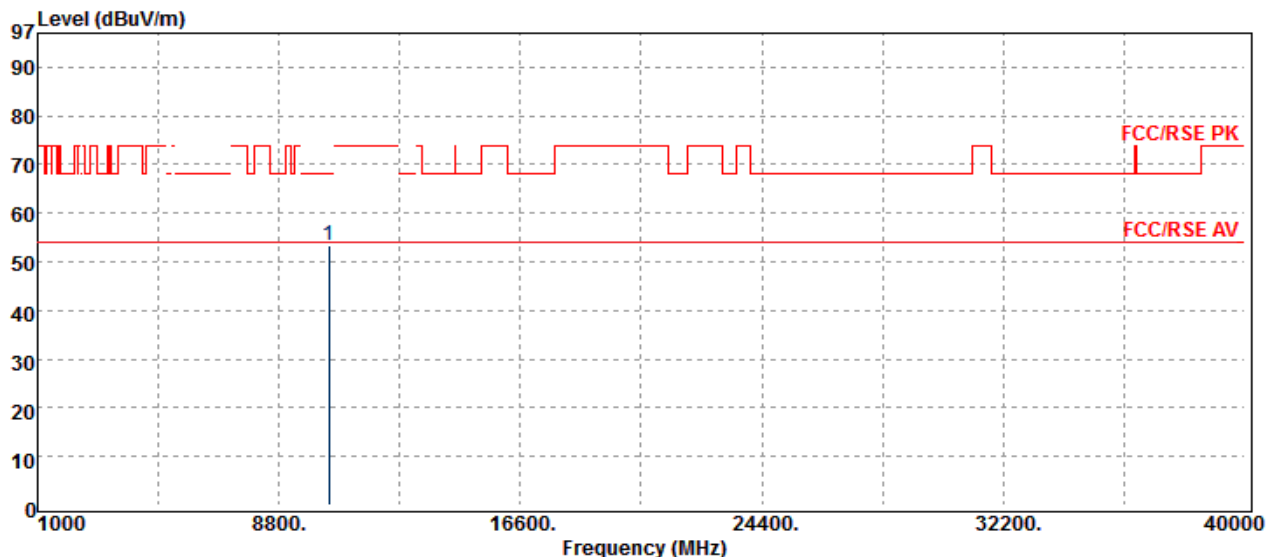
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Operation Band :802.11ac80B1
 Fundamental Frequency :5210 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10420.00	Peak	33.41	19.99	53.40	68.20	-14.80

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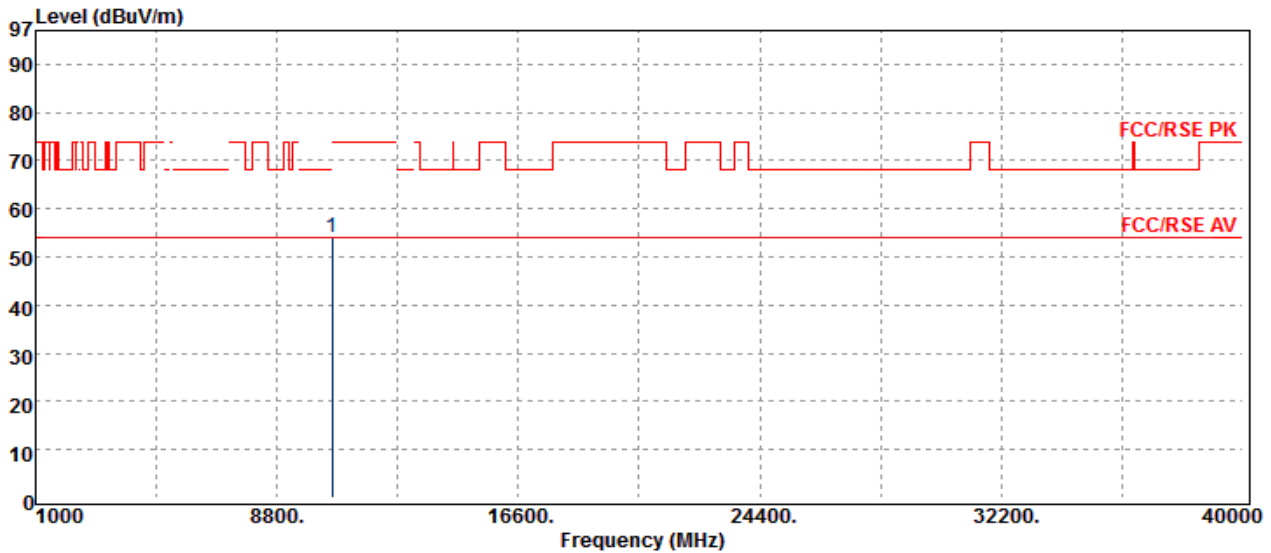
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Band :802.11ac80B2
Fundamental Frequency :5290 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2018-07-13
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10580.00	Peak	33.86	20.23	54.09	68.20	-14.11

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Operation Band :802.11ac80B2
 Fundamental Frequency :5290 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10580.00	Peak	33.29	20.23	53.52	68.20	-14.68

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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Band :802.11ac80B3

Fundamental Frequency :5530 MHz

Operation Mode :Tx CH LOW

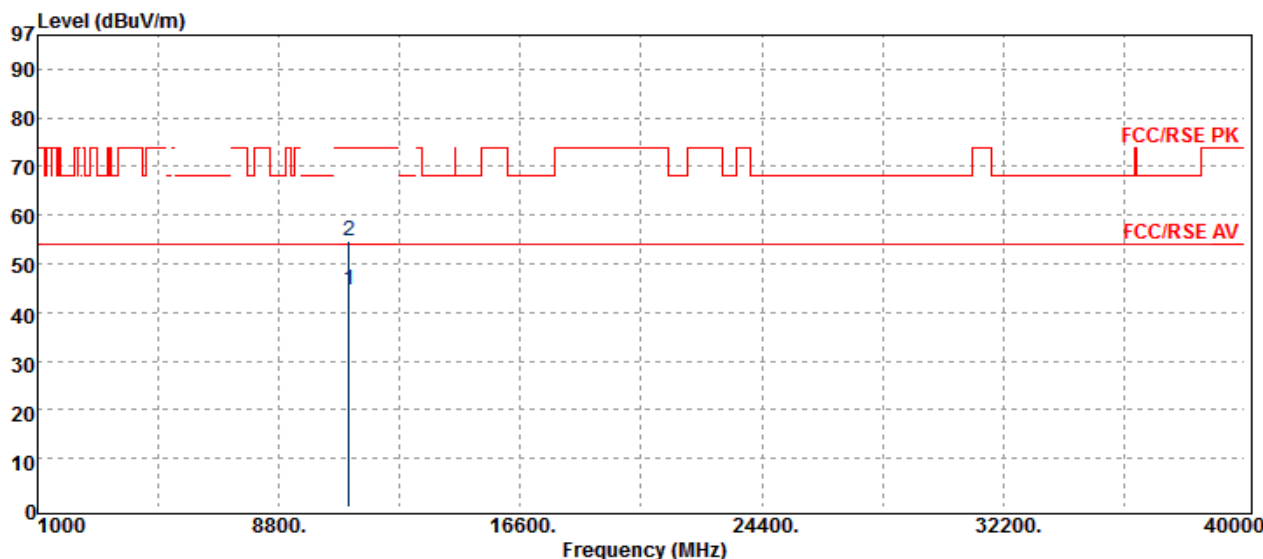
EUT Pol. :H Plane

Test Date :2018-07-13

Temp./Humi. :23 deg_C / 62 RH

Engineer :Kane

Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	Average	23.16	21.53	44.69	54.00	-9.31
11060.00	Peak	33.34	21.53	54.87	74.00	-19.13

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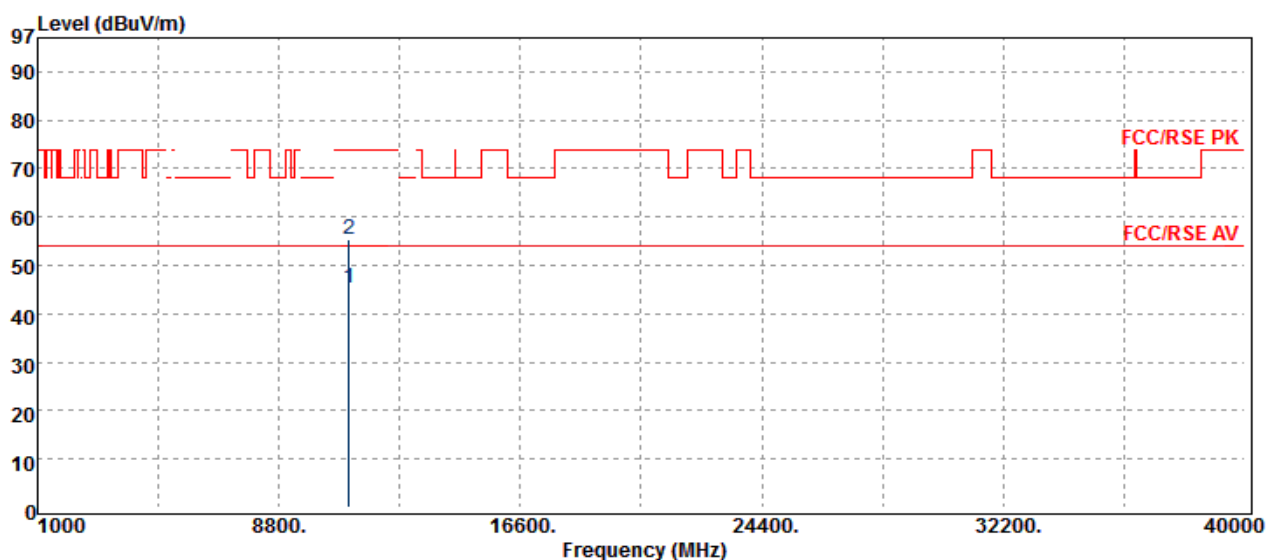
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Operation Band :802.11ac80B3
 Fundamental Frequency :5530 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	Average	23.84	21.53	45.37	54.00	-8.63
11060.00	Peak	33.74	21.53	55.27	74.00	-18.73

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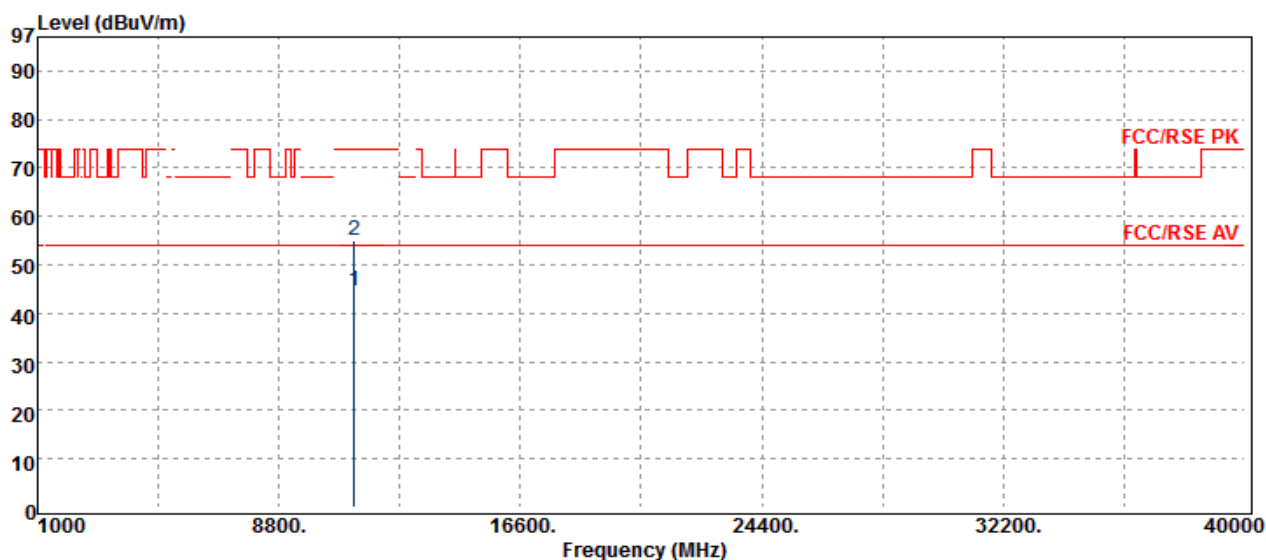
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Operation Band :802.11ac80B3
 Fundamental Frequency :5610 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Average	23.02	21.56	44.58	54.00	-9.42
11220.00	Peak	33.47	21.56	55.03	74.00	-18.97

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Operation Band :802.11ac80B3
 Fundamental Frequency :5610 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Average	23.04	21.56	44.60	54.00	-9.40
11220.00	Peak	33.78	21.56	55.34	74.00	-18.66

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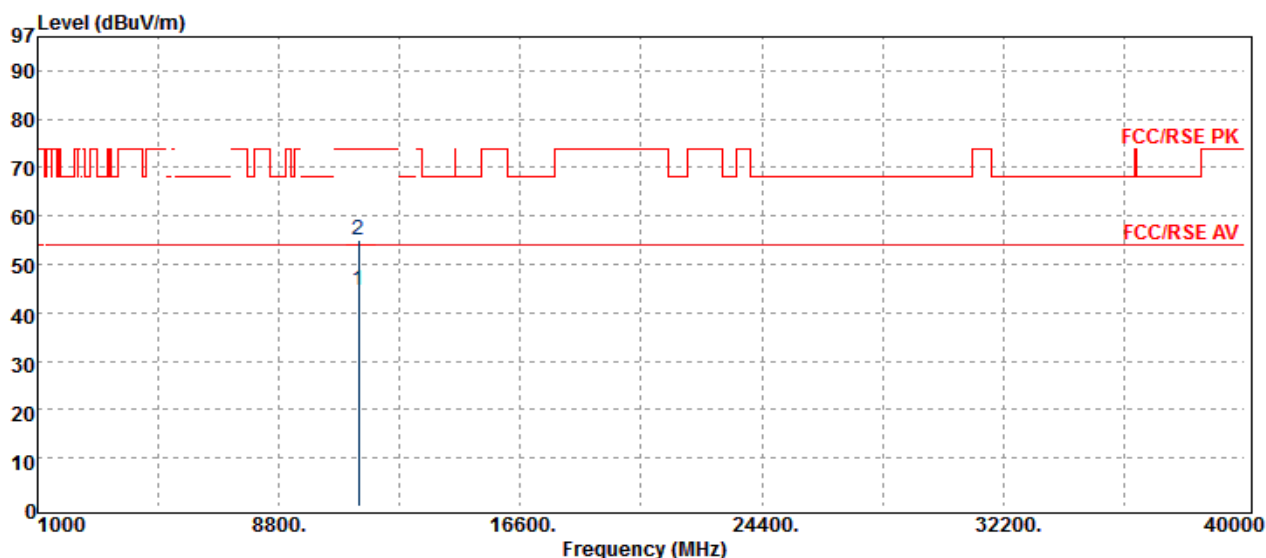
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Operation Band :802.11ac80B3
 Fundamental Frequency :5690 MHz
 Operation Mode :Tx CH CROSS
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	Average	23.15	21.61	44.76	54.00	-9.24
11380.00	Peak	33.39	21.61	55.00	74.00	-19.00

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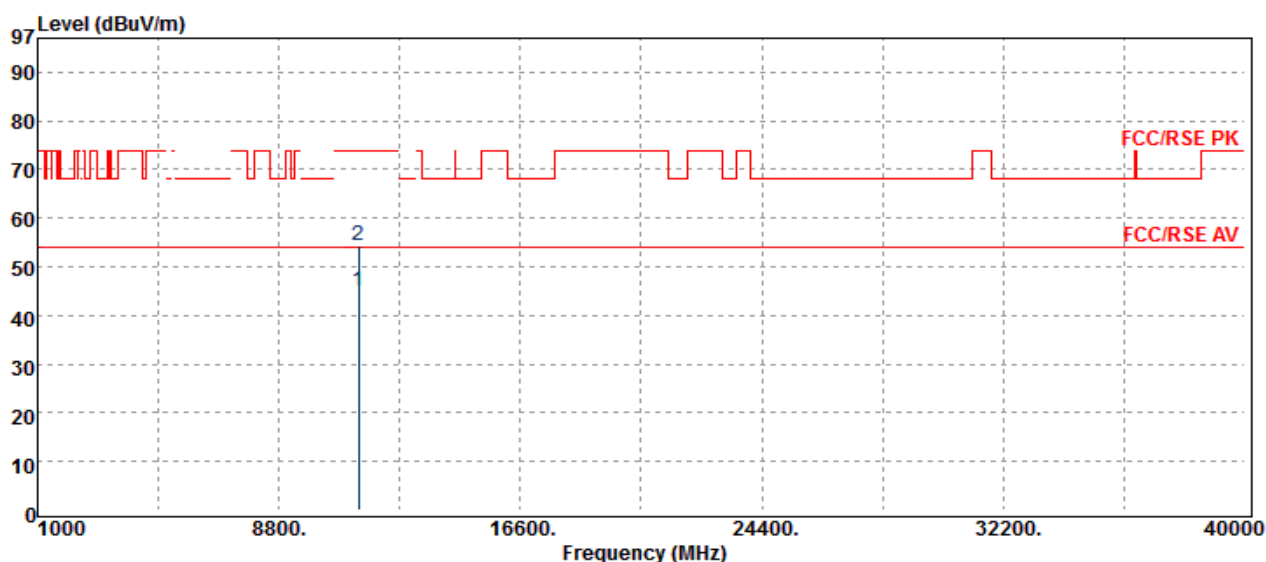
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Operation Band :802.11ac80B3
 Fundamental Frequency :5690 MHz
 Operation Mode :Tx CH CROSS
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	Average	23.30	21.61	44.91	54.00	-9.09
11380.00	Peak	32.71	21.61	54.32	74.00	-19.68

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Radiated Spurious Emission Measurement Result 802.11ac VHT80,

Operation Band :802.11ac80B4

Test Date

:2018-07-13

Fundamental Frequency :5775 MHz

Temp./Humi.

:23 deg_C / 62 RH

Operation Mode :Tx CH LOW

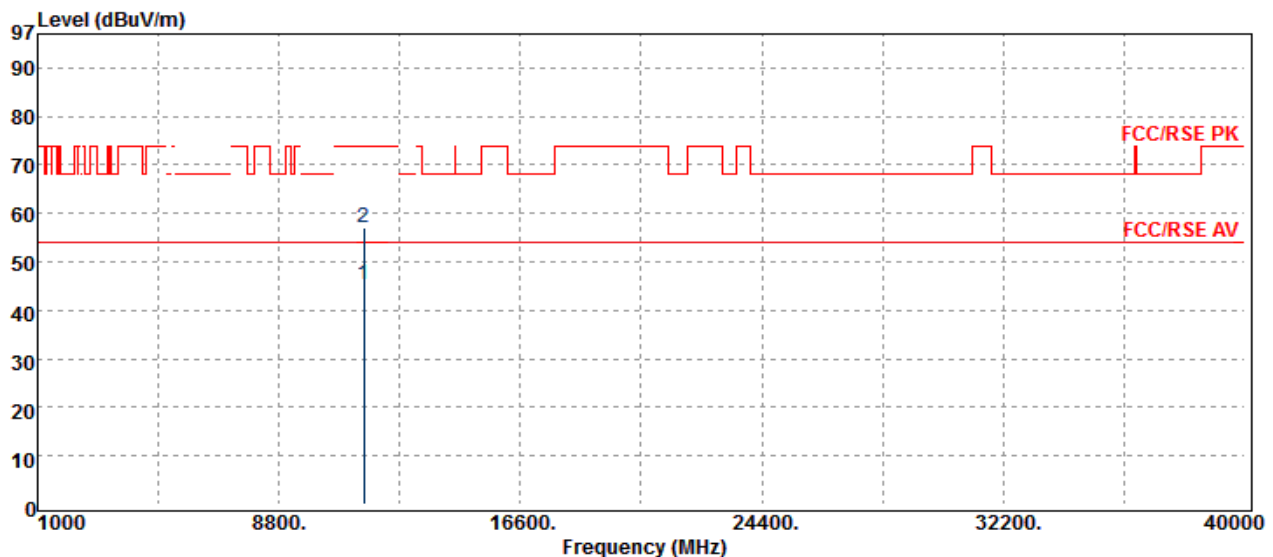
Engineer

:Kane

EUT Pol. :H Plane

Measurement Antenna Pol.

:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
11550.00	Average	23.55	21.66	45.21	54.00	-8.79
11550.00	Peak	35.27	21.66	56.93	74.00	-17.07

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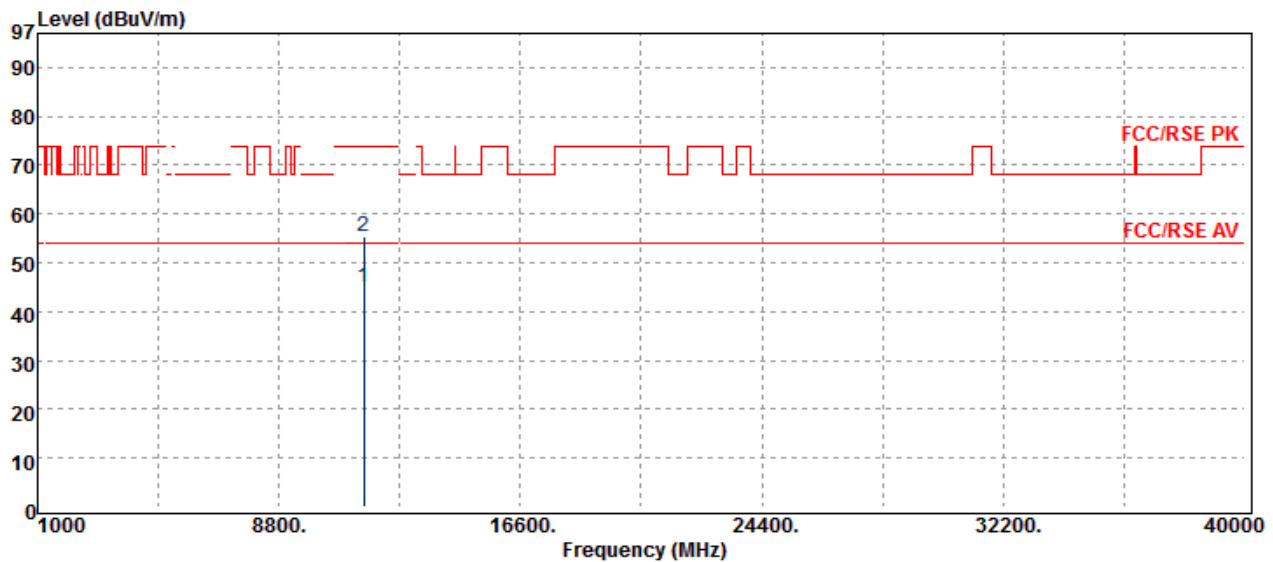
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Operation Band :802.11ac80B4
 Fundamental Frequency :5775 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-13
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	Average	23.44	21.66	45.10	54.00	-8.90
11550.00	Peak	33.85	21.66	55.51	74.00	-18.49

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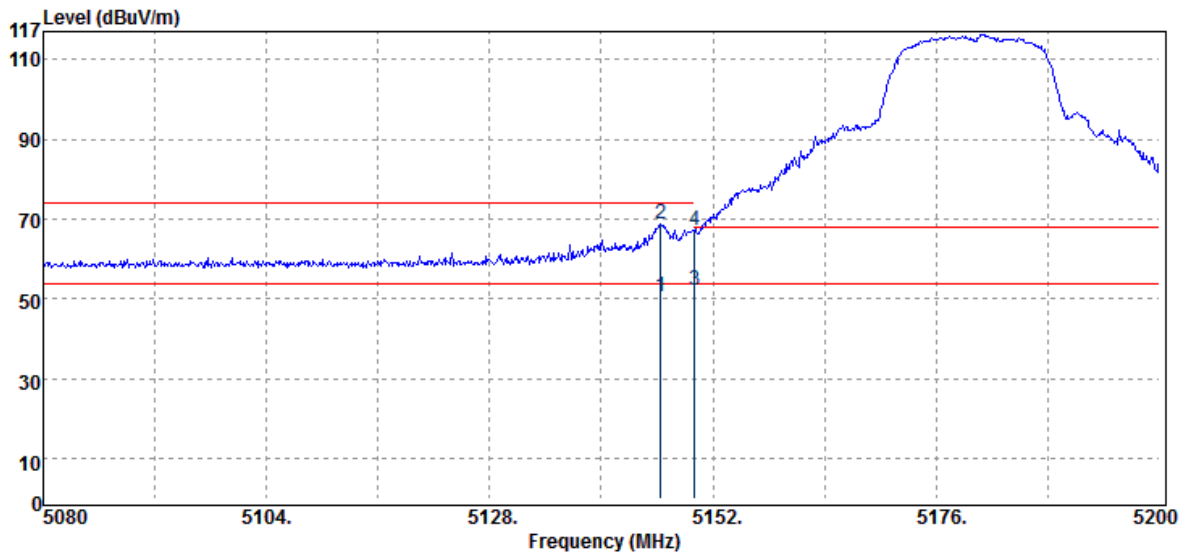
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Band edge falling to restricted band

802.11a mode

Operation Band :802.11aB1
 Fundamental Frequency :5180 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



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
5146.36	Average	42.45	8.30	50.75	54.00	-3.25
5146.36	Peak	60.38	8.30	68.68	74.00	-5.32
5150.00	Average	44.10	8.32	52.42	54.00	-1.58
5150.00	Peak	58.71	8.32	67.03	74.00	-6.97

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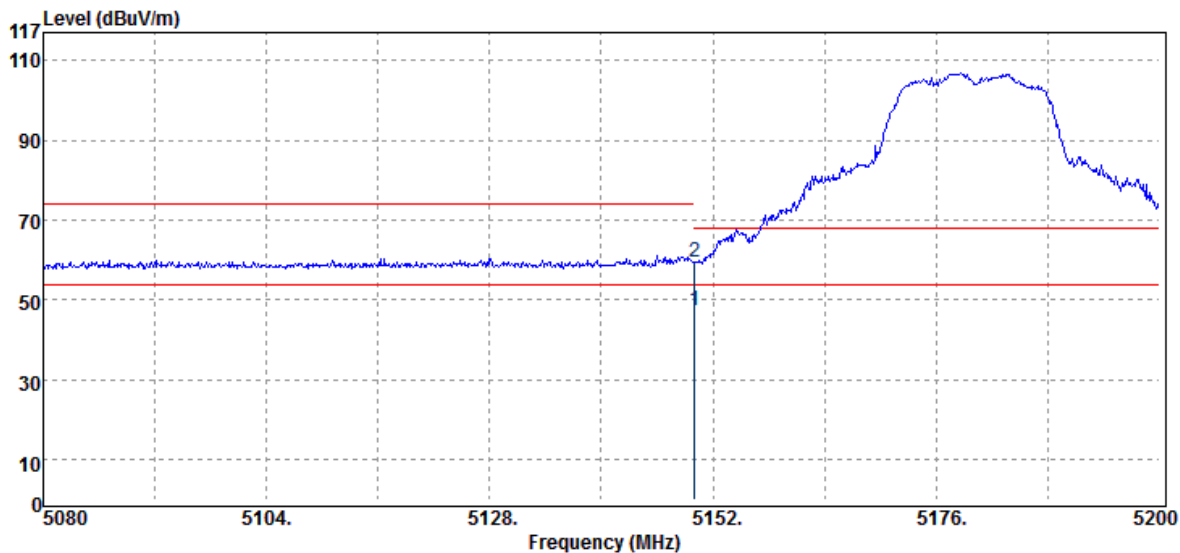
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Member of SGS Group

Operation Band :802.11aB1
 Fundamental Frequency :5180 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	Average	39.24	8.32	47.56	54.00	-6.44
5150.00	Peak	51.26	8.32	59.58	74.00	-14.42

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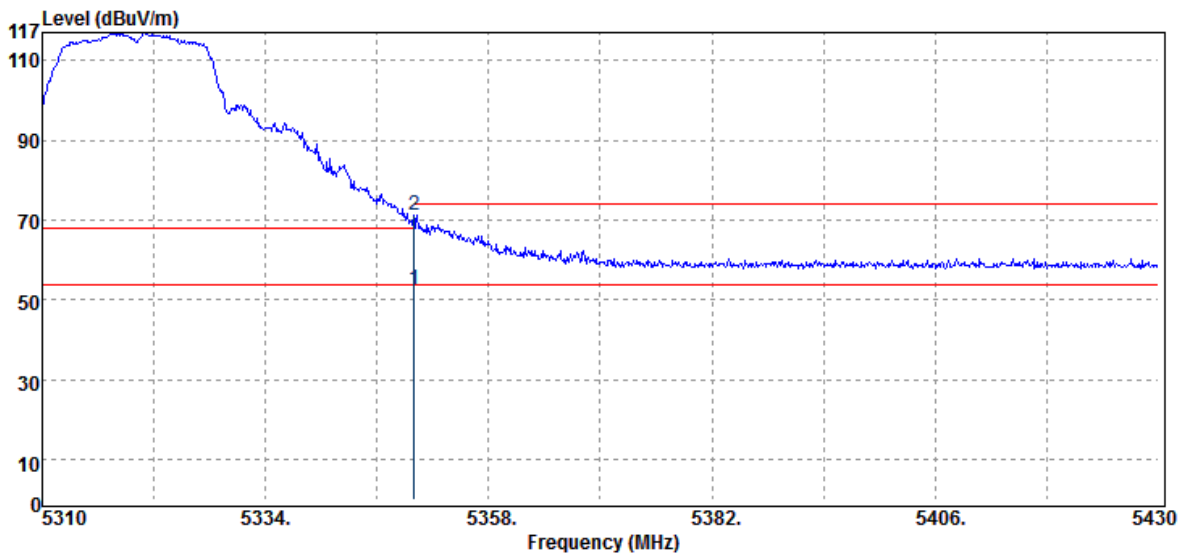
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Operation Band :802.11aB2
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	Average	44.12	8.63	52.75	54.00	-1.25
5350.00	Peak	62.44	8.63	71.07	74.00	-2.93

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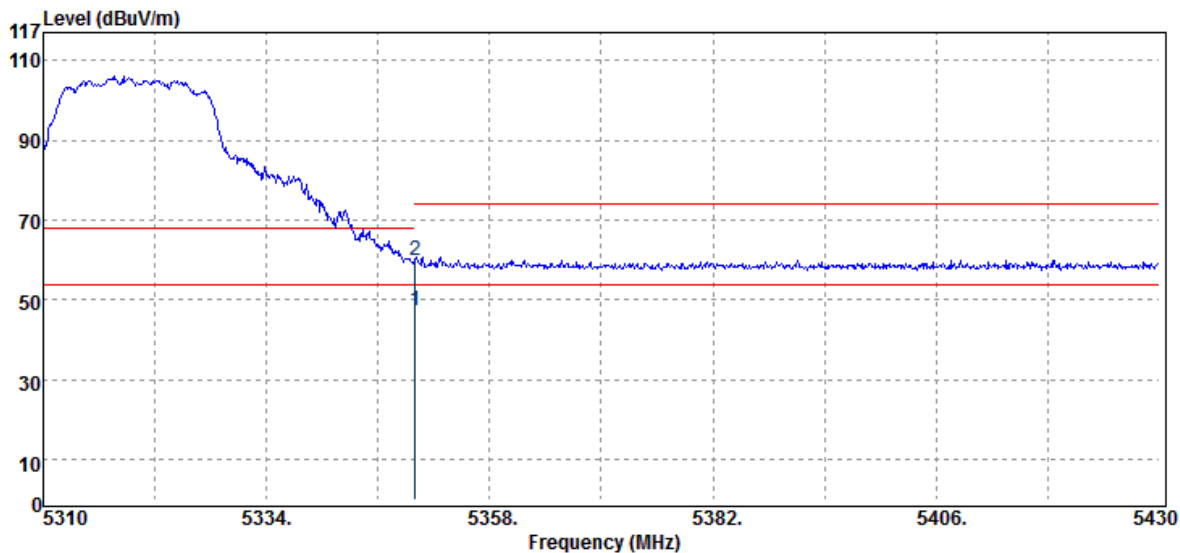
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Operation Band :802.11aB2
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	Average	38.84	8.63	47.47	54.00	-6.53
5350.00	Peak	51.28	8.63	59.91	74.00	-14.09

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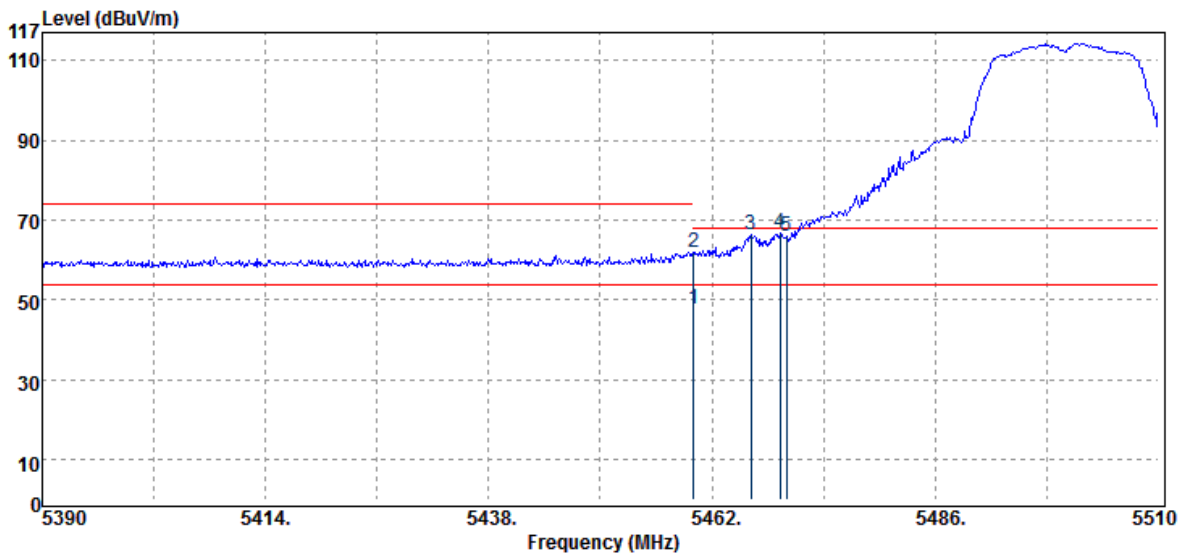
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Member of SGS Group

Operation Band :802.11aB3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	Average	38.94	8.75	47.69	54.00	-6.31
5460.00	Peak	53.15	8.75	61.90	74.00	-12.10
5466.20	Peak	57.86	8.74	66.60	68.20	-1.60
5469.32	Peak	57.96	8.74	66.70	68.20	-1.50
5470.00	Peak	57.40	8.74	66.14	68.20	-2.06

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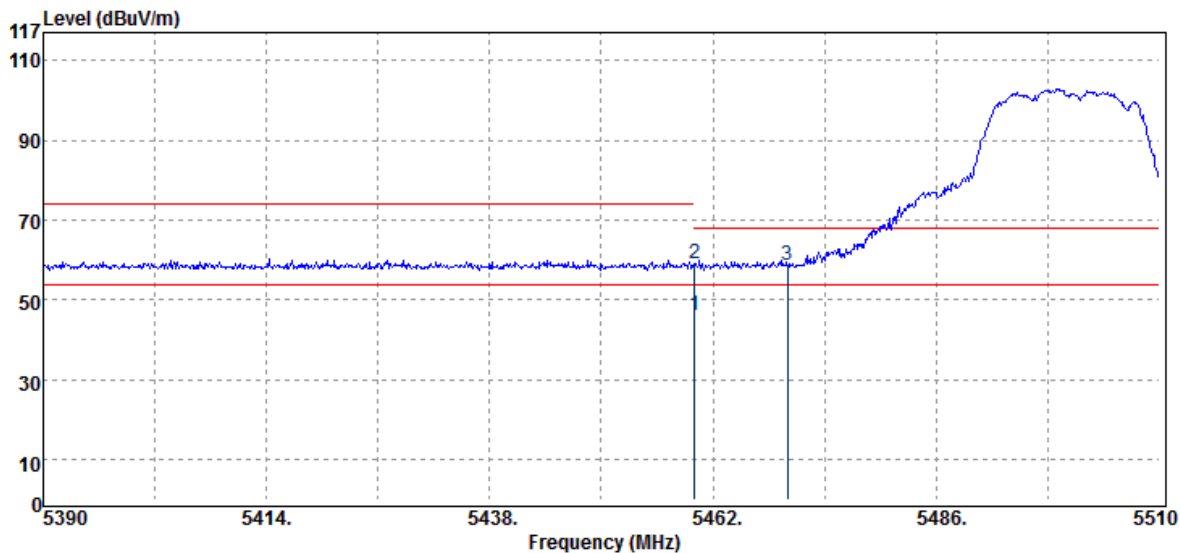
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Operation Band :802.11aB3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	Average	37.58	8.75	46.33	54.00	-7.67
5460.00	Peak	50.26	8.75	59.01	74.00	-14.99
5470.00	Peak	49.77	8.74	58.51	68.20	-9.69

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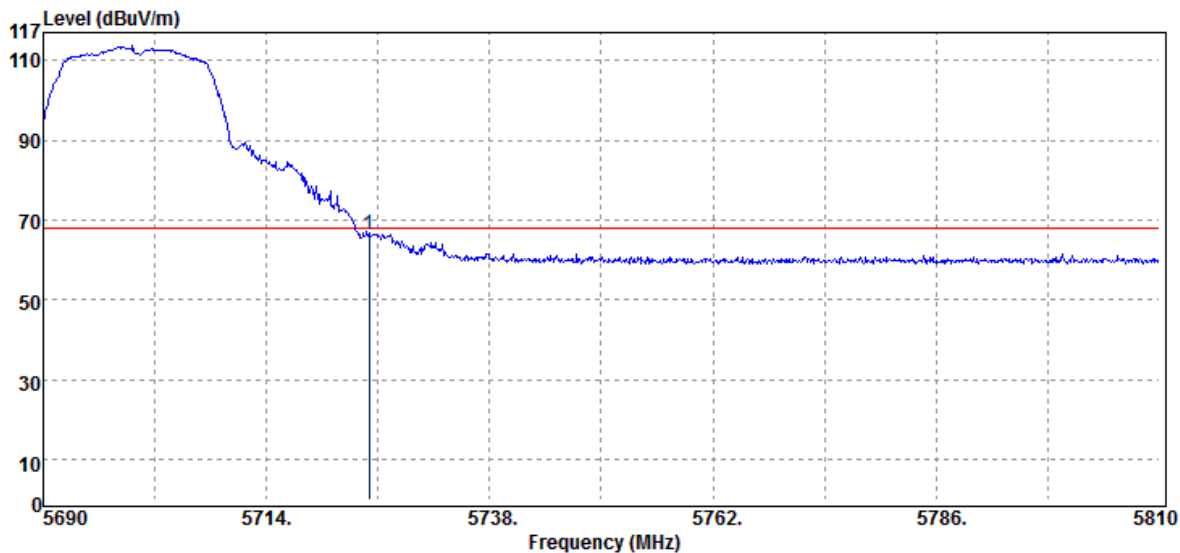
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Operation Band :802.11aB3
 Fundamental Frequency :5700 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	Peak	56.82	9.44	66.26	68.20	-1.94

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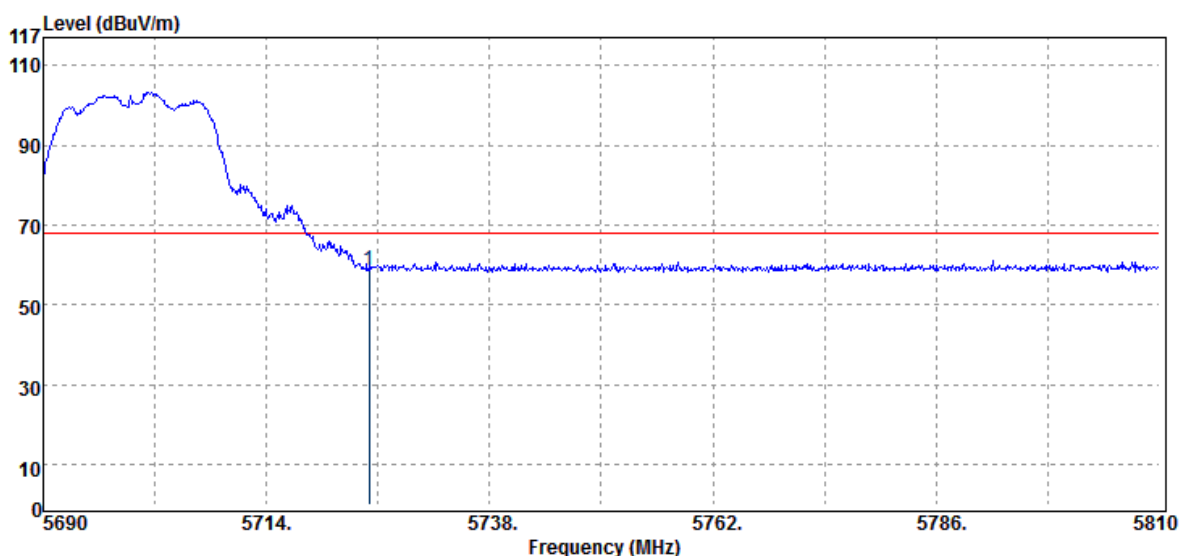
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Operation Band :802.11aB3
 Fundamental Frequency :5700 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	Peak	49.45	9.44	58.89	68.20	-9.31

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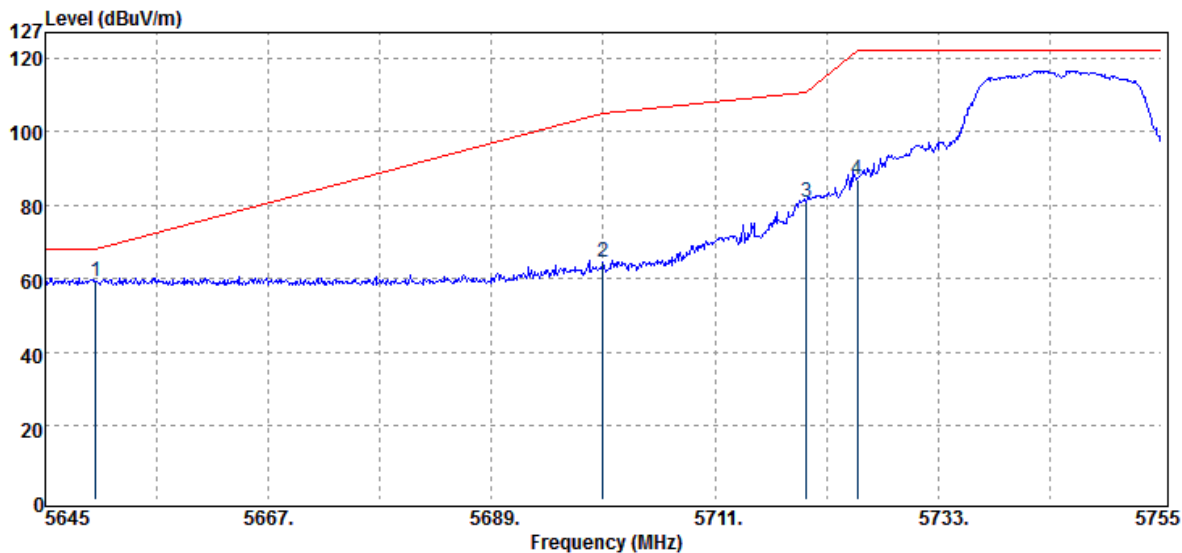
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Operation Band :802.11aB4
 Fundamental Frequency :5745 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	50.16	9.20	59.36	68.23	-8.87
5700.00	Peak	55.04	9.35	64.39	105.23	-40.84
5720.00	Peak	71.22	9.43	80.65	110.83	-30.18
5725.00	Peak	77.77	9.44	87.21	122.23	-35.02

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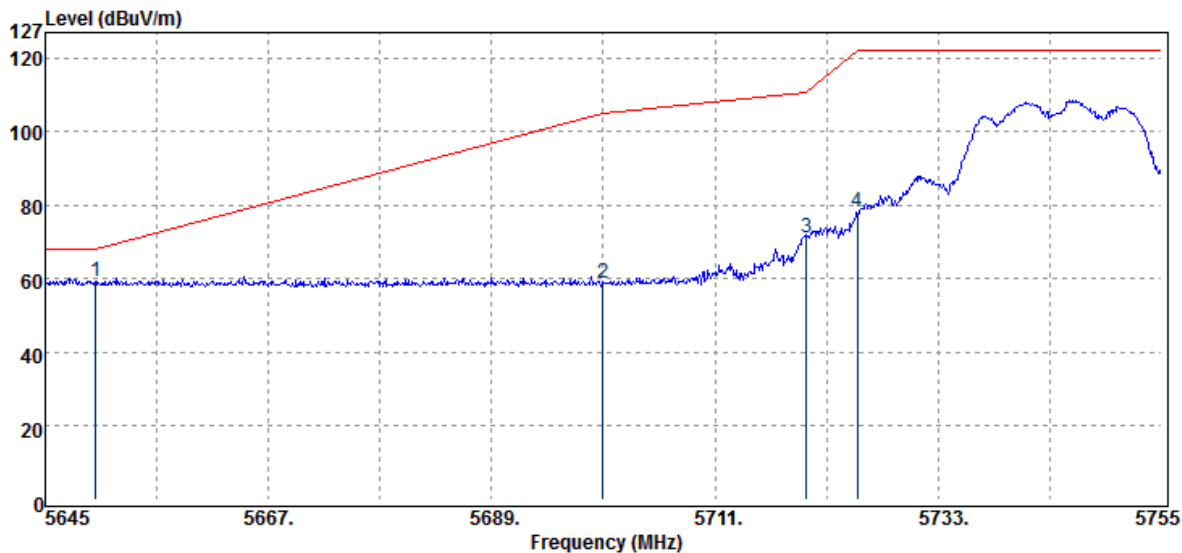
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Operation Band :802.11aB4
 Fundamental Frequency :5745 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	50.12	9.20	59.32	68.23	-8.91
5700.00	Peak	49.71	9.35	59.06	105.23	-46.17
5720.00	Peak	61.66	9.43	71.09	110.83	-39.74
5725.00	Peak	68.74	9.44	78.18	122.23	-44.05

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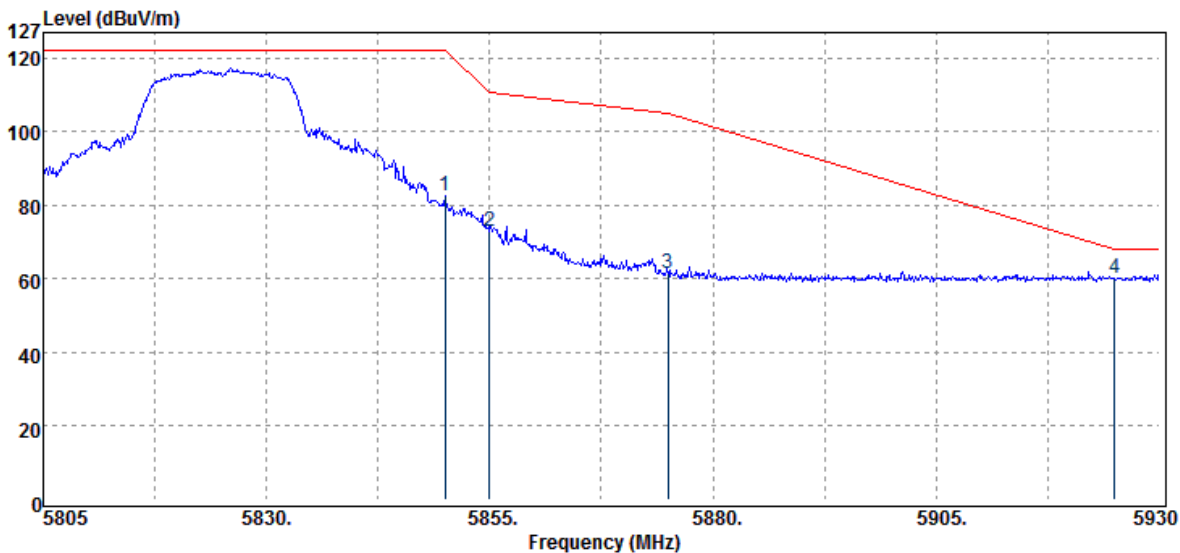
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Member of SGS Group

Operation Band :802.11aB4
 Fundamental Frequency :5825 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	Peak	72.96	9.77	82.73	122.23	-39.50
5855.00	Peak	63.03	9.78	72.81	110.83	-38.02
5875.00	Peak	51.53	9.82	61.35	105.23	-43.88
5925.00	Peak	50.40	9.98	60.38	68.23	-7.85

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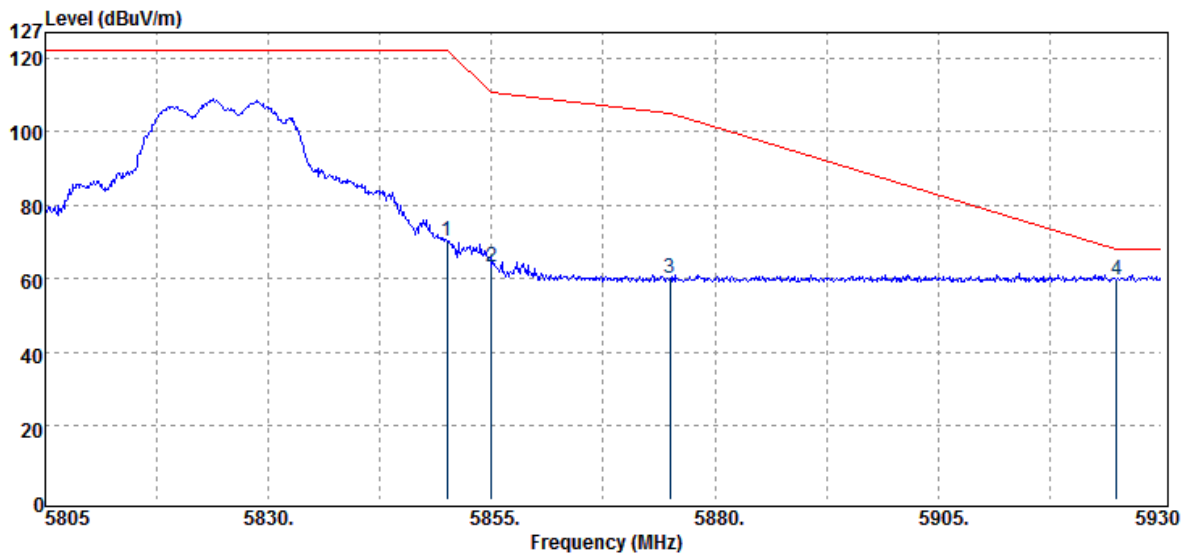
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Member of SGS Group

Operation Band :802.11aB4
 Fundamental Frequency :5825 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	Peak	60.66	9.77	70.43	122.23	-51.80
5855.00	Peak	53.42	9.78	63.20	110.83	-47.63
5875.00	Peak	50.24	9.82	60.06	105.23	-45.17
5925.00	Peak	49.68	9.98	59.66	68.23	-8.57

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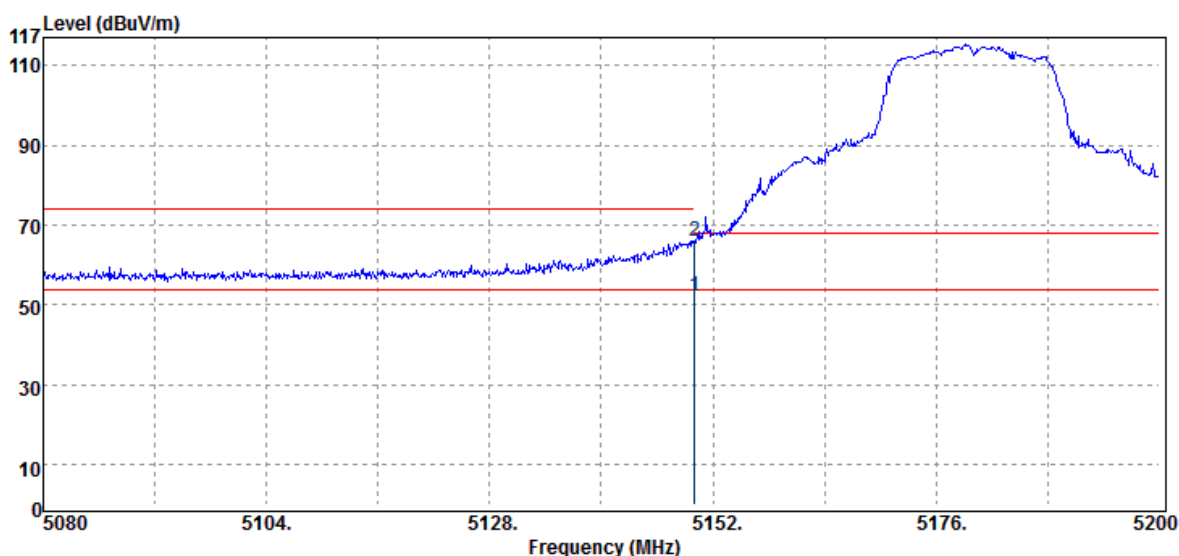
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802.11n20 HT mode

Operation Band :802.11n20B1
 Fundamental Frequency :5180 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	Average	43.80	8.32	52.12	54.00	-1.88
5150.00	Peak	57.62	8.32	65.94	74.00	-8.06

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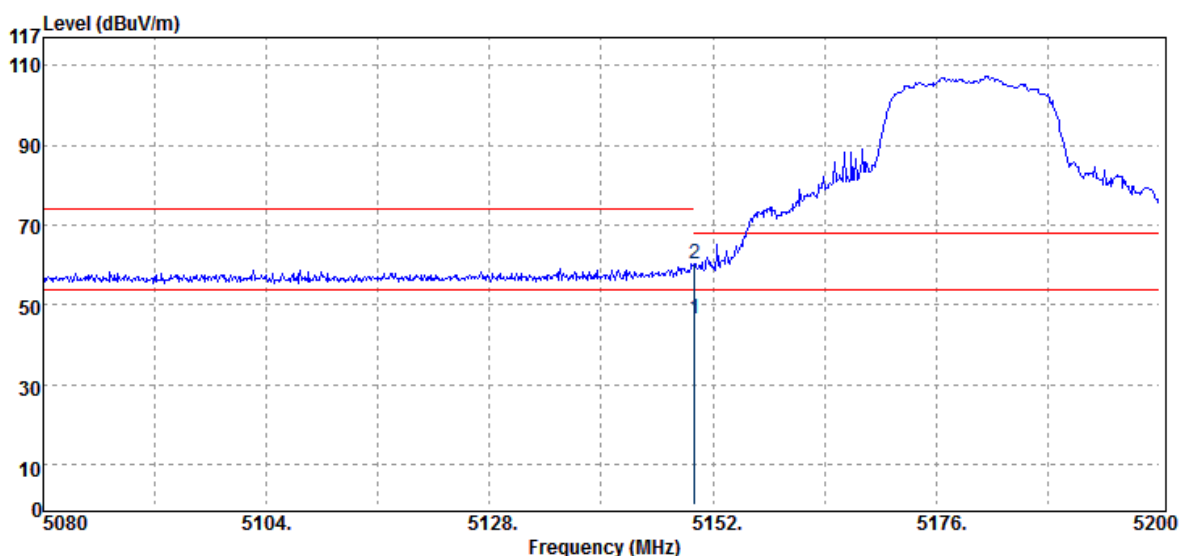
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Operation Band :802.11n20B1
 Fundamental Frequency :5180 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	Average	38.18	8.32	46.50	54.00	-7.50
5150.00	Peak	51.99	8.32	60.31	74.00	-13.69

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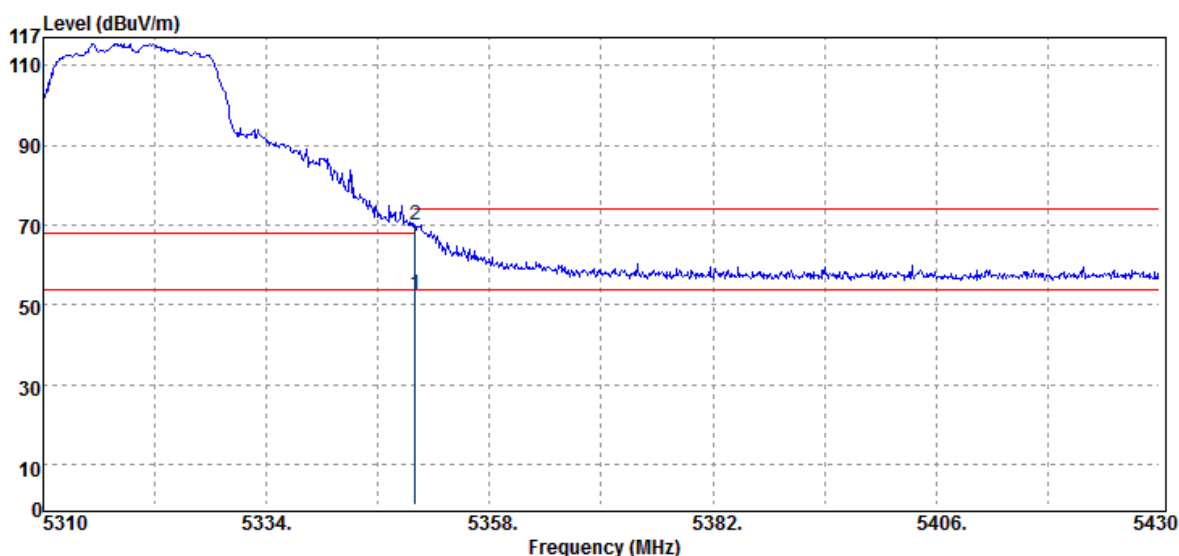
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Operation Band :802.11n20B1
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	Average	44.15	8.63	52.78	54.00	-1.22
5350.00	Peak	61.22	8.63	69.85	74.00	-4.15

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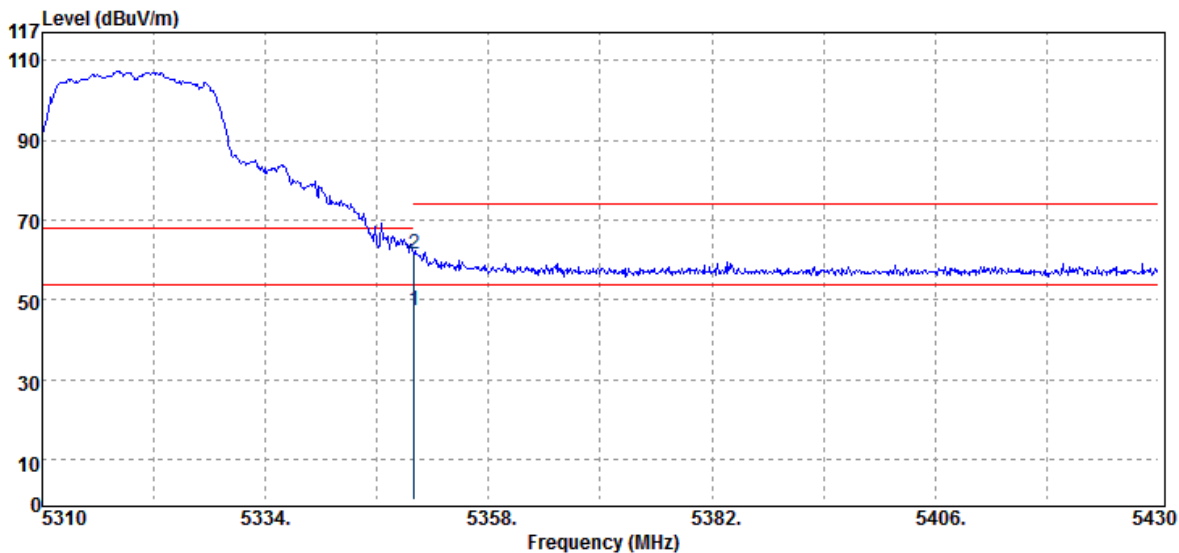
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Operation Band :802.11n20B1
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	Average	38.83	8.63	47.46	54.00	-6.54
5350.00	Peak	53.10	8.63	61.73	74.00	-12.27

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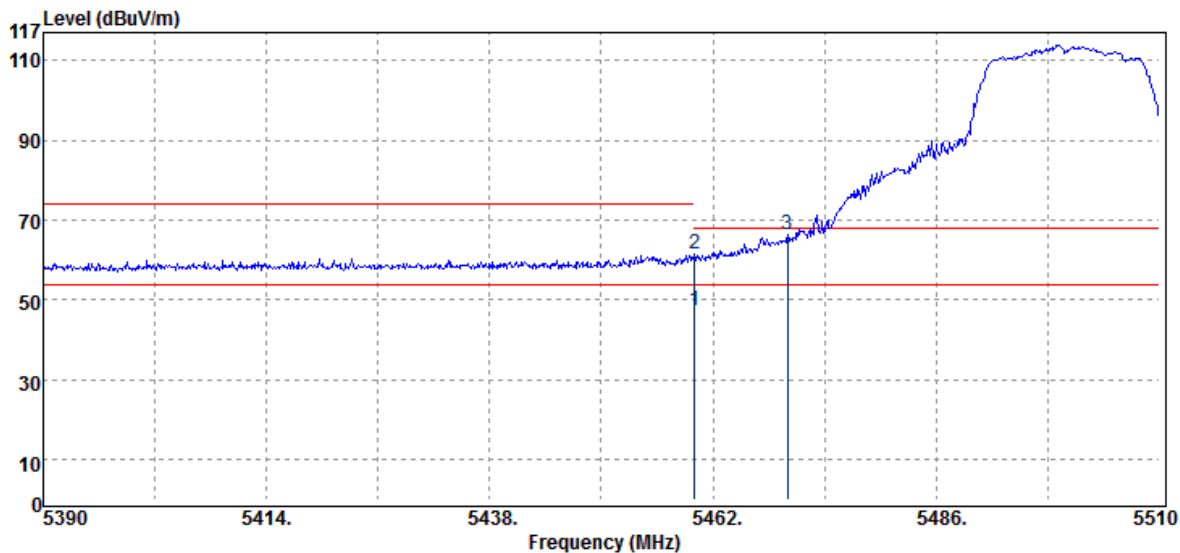
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Operation Band :802.11n20B3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	Average	38.78	8.75	47.53	54.00	-6.47
5460.00	Peak	52.72	8.75	61.47	74.00	-12.53
5470.00	Peak	57.80	8.74	66.54	68.20	-1.66

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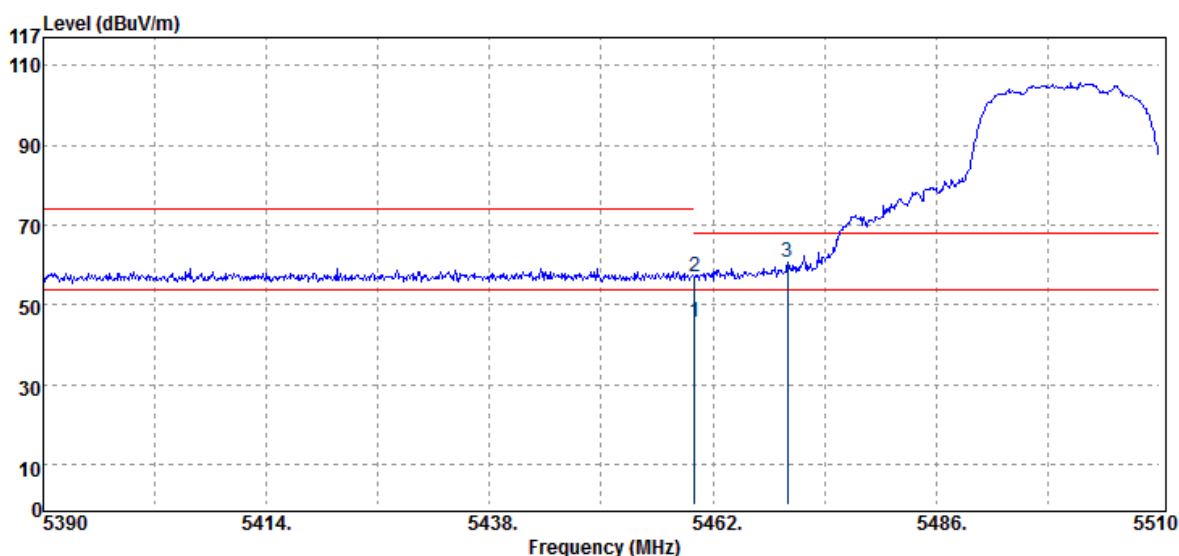
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Operation Band :802.11n20B3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	Average	37.15	8.75	45.90	54.00	-8.10
5460.00	Peak	48.14	8.75	56.89	74.00	-17.11
5470.00	Peak	51.85	8.74	60.59	68.20	-7.61

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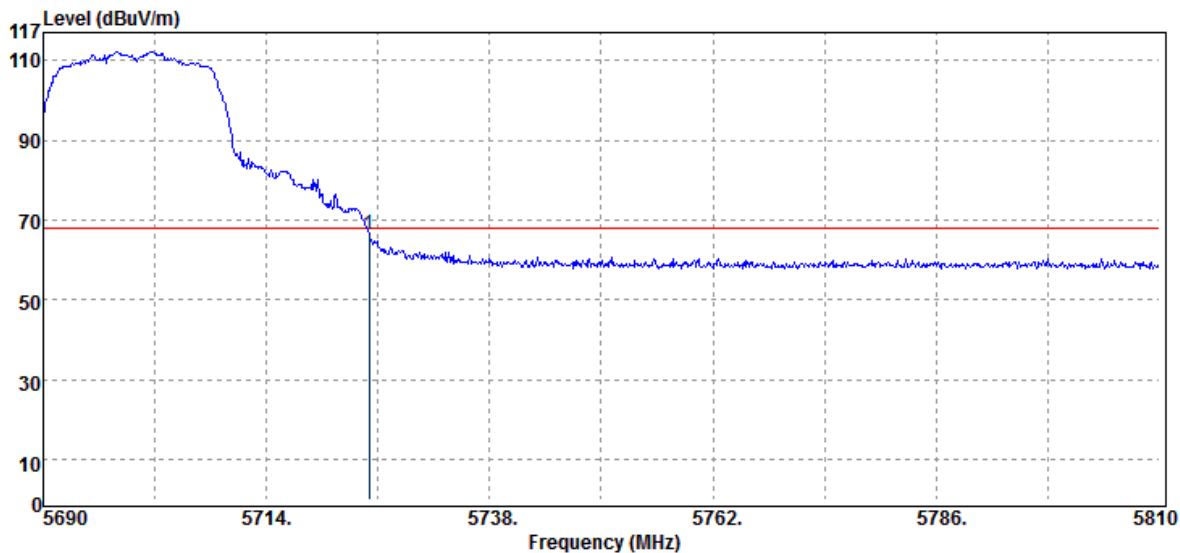
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Operation Band :802.11n20B3
 Fundamental Frequency :5700 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	Peak	56.87	9.44	66.31	68.20	-1.89

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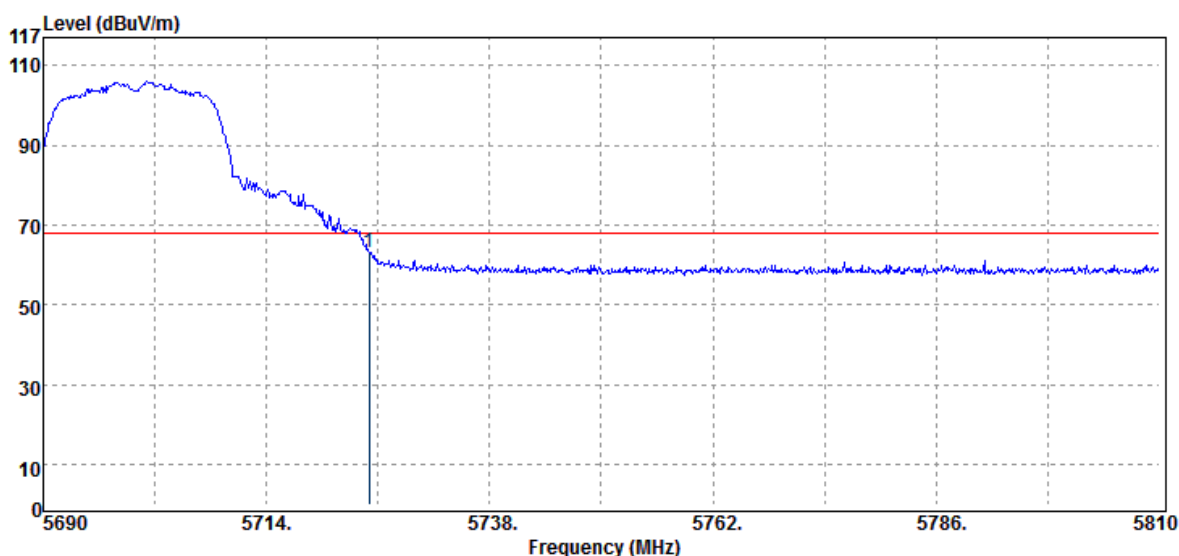
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Operation Band :802.11n20B3
 Fundamental Frequency :5700 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	Peak	53.61	9.44	63.05	68.20	-5.15

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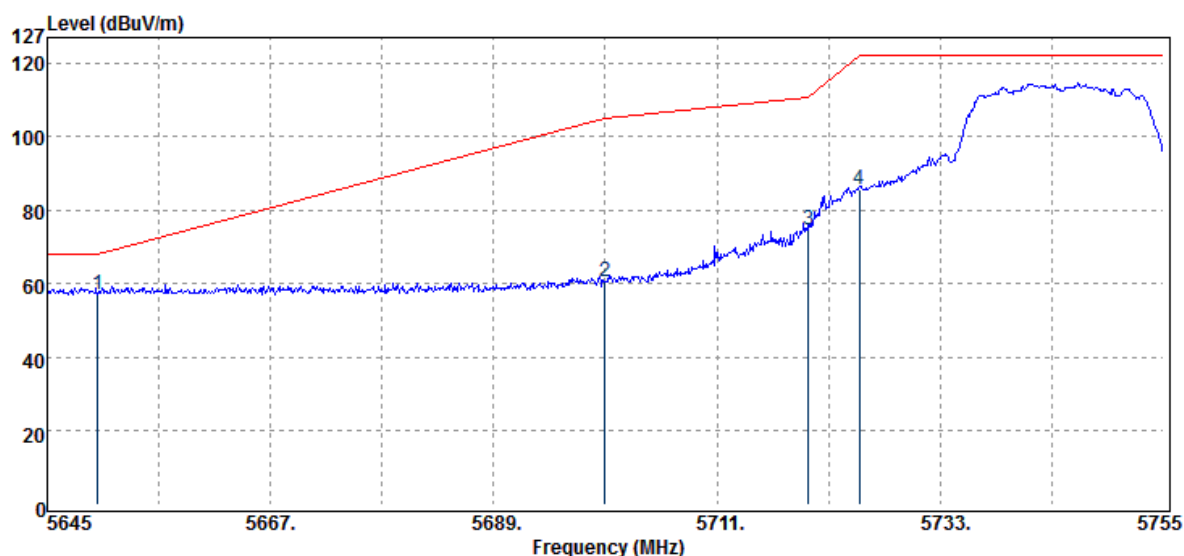
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Operation Band :802.11n20B4
 Fundamental Frequency :5745 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	48.10	9.20	57.30	68.23	-10.93
5700.00	Peak	51.21	9.35	60.56	105.23	-44.67
5720.00	Peak	65.39	9.43	74.82	110.83	-36.01
5725.00	Peak	76.44	9.44	85.88	122.23	-36.35

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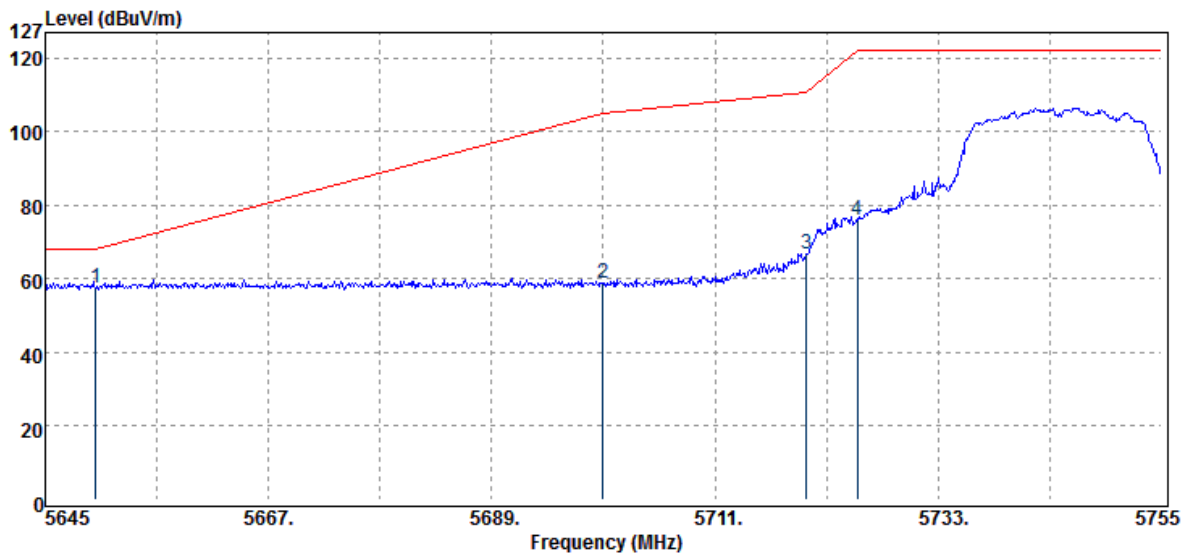
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Member of SGS Group

Operation Band :802.11n20B4
 Fundamental Frequency :5745 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	48.32	9.20	57.52	68.23	-10.71
5700.00	Peak	49.63	9.35	58.98	105.23	-46.25
5720.00	Peak	57.32	9.43	66.75	110.83	-44.08
5725.00	Peak	66.48	9.44	75.92	122.23	-46.31

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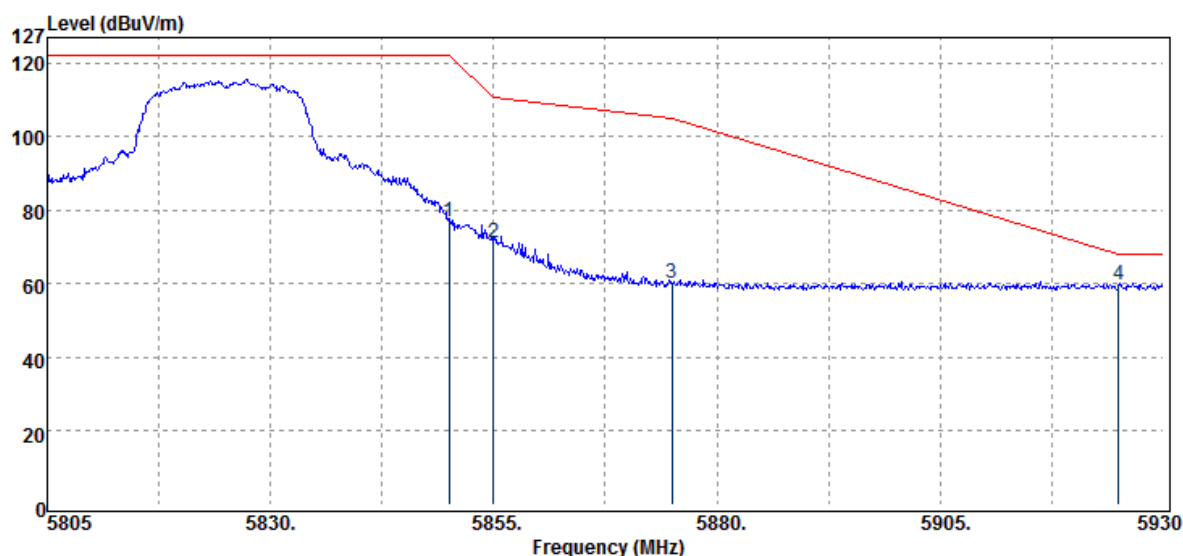
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n20B4
 Fundamental Frequency :5825 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



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
5850.00	Peak	67.17	9.77	76.94	122.23	-45.29
5855.00	Peak	61.40	9.78	71.18	110.83	-39.65
5875.00	Peak	50.49	9.82	60.31	105.23	-44.92
5925.00	Peak	49.67	9.98	59.65	68.23	-8.58

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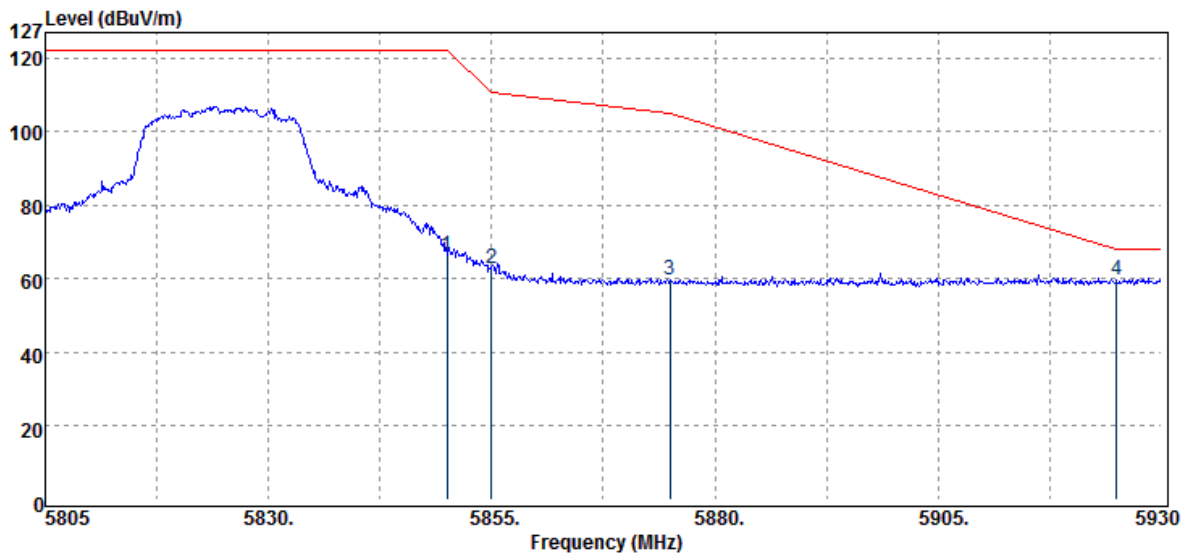
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Operation Band :802.11n20B4
 Fundamental Frequency :5825 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	56.66	9.77	66.43	122.23	-55.80
5855.00	Peak	53.06	9.78	62.84	110.83	-47.99
5875.00	Peak	50.03	9.82	59.85	105.23	-45.38
5925.00	Peak	49.82	9.98	59.80	68.23	-8.43

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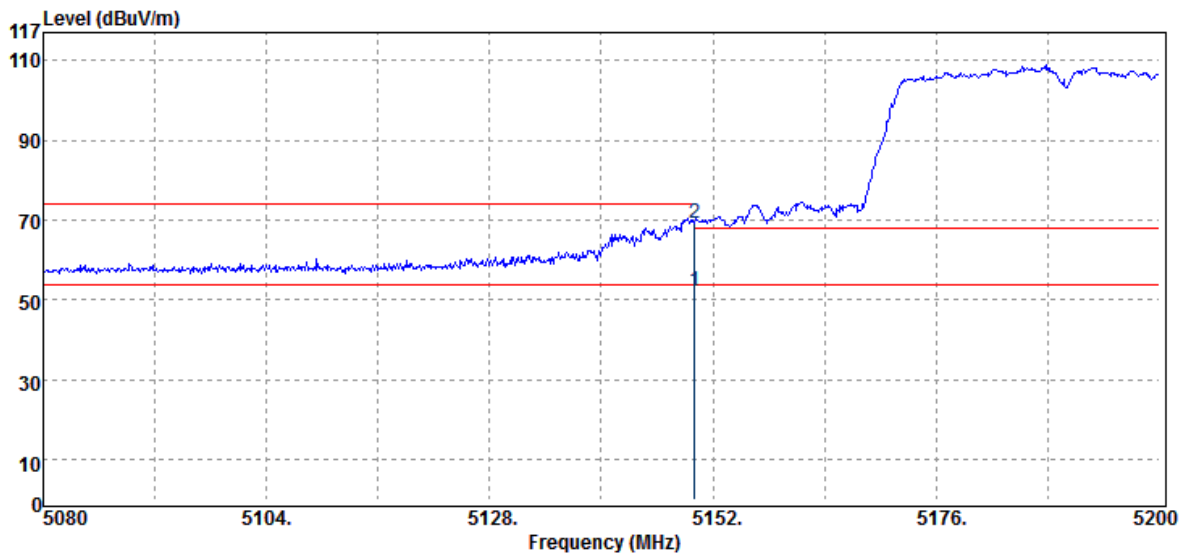
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802.11n40 HT mode

Operation Band :802.11n40B1
Fundamental Frequency :5190 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2018-07-05
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	Average	43.71	8.32	52.03	54.00	-1.97
5150.00	Peak	60.73	8.32	69.05	74.00	-4.95

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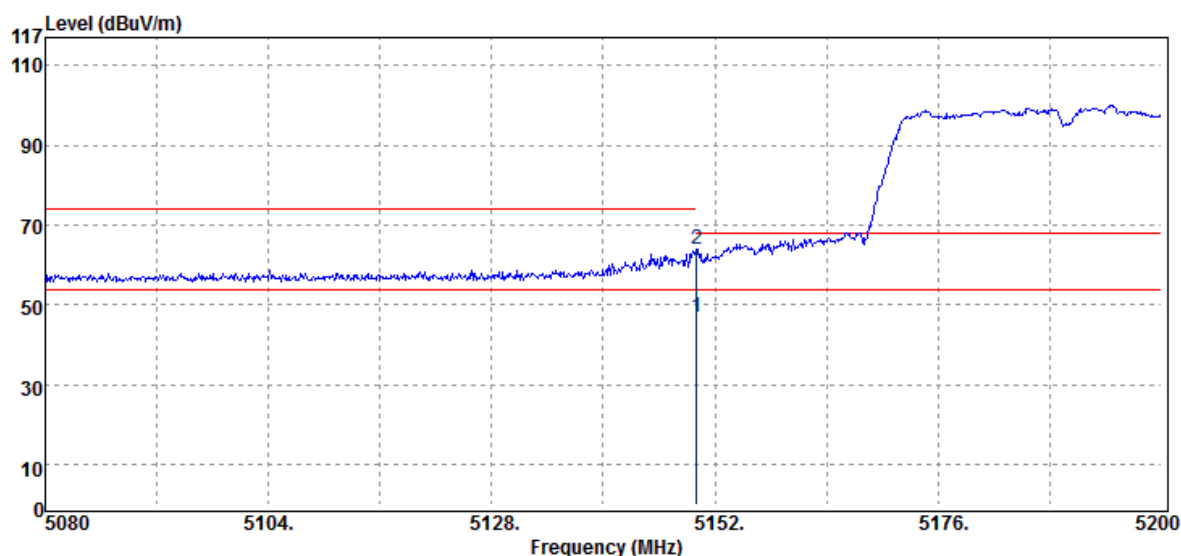
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Operation Band :802.11n40B1
 Fundamental Frequency :5190 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	Average	38.83	8.32	47.15	54.00	-6.85
5150.00	Peak	55.46	8.32	63.78	74.00	-10.22

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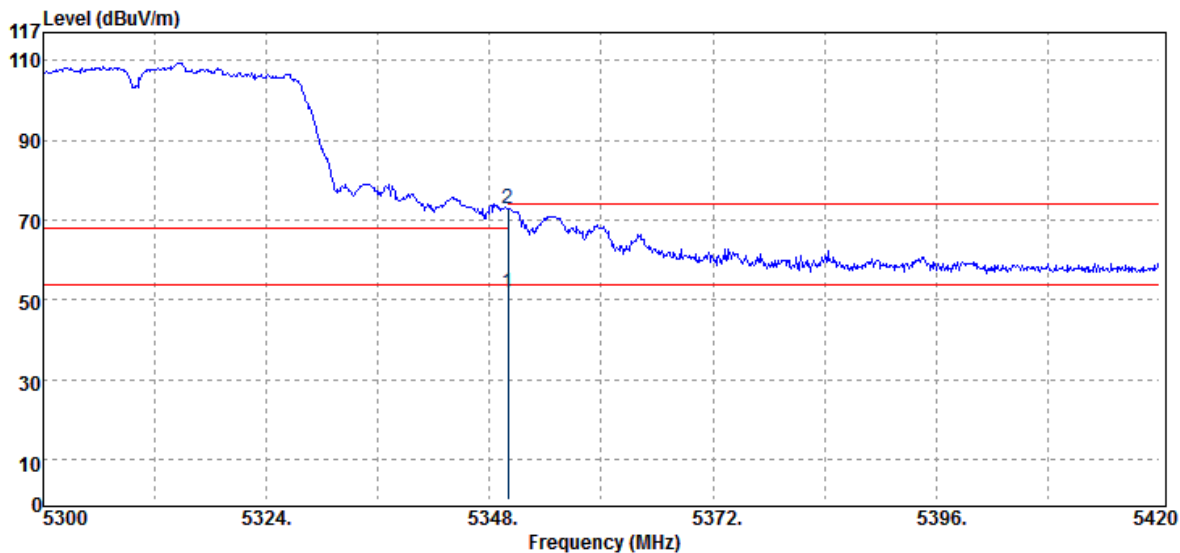
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Operation Band :802.11n40B2
 Fundamental Frequency :5310 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	Average	43.34	8.63	51.97	54.00	-2.03
5350.00	Peak	64.26	8.63	72.89	74.00	-1.11

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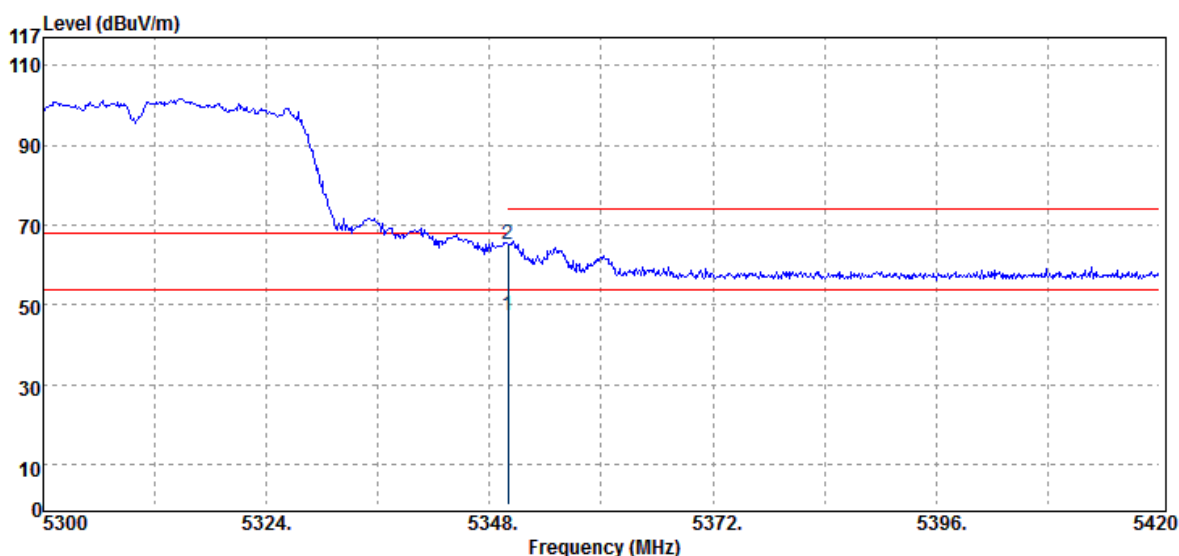
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Operation Band :802.11n40B2
 Fundamental Frequency :5310 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	Average	38.93	8.63	47.56	54.00	-6.44
5350.00	Peak	56.53	8.63	65.16	74.00	-8.84

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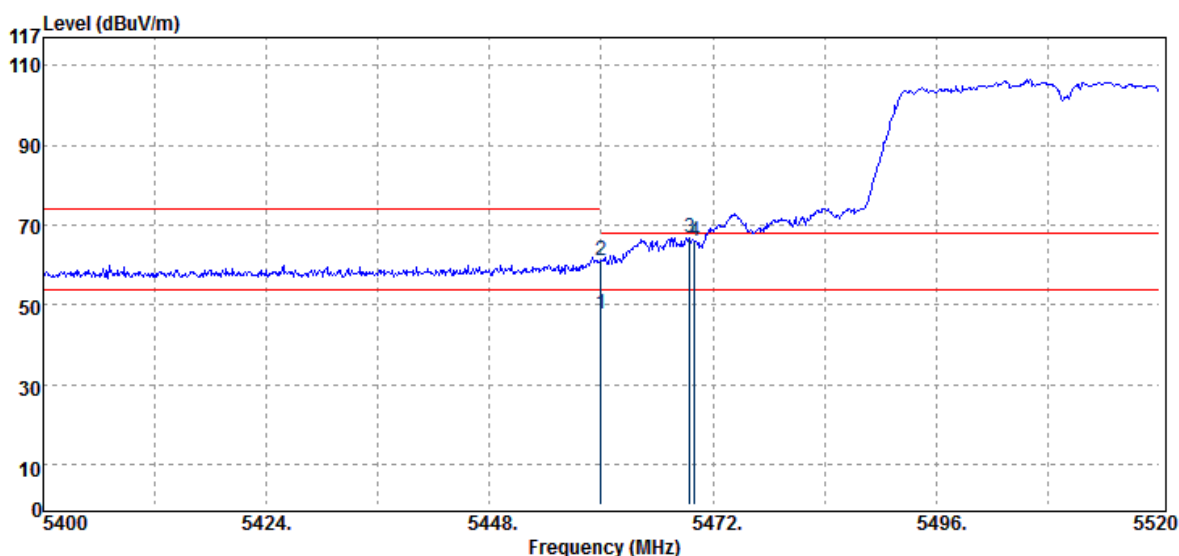
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Operation Band :802.11n40B3
 Fundamental Frequency :5510 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	Average	39.12	8.75	47.87	54.00	-6.13
5460.00	Peak	52.31	8.75	61.06	74.00	-12.94
5469.48	Peak	58.22	8.74	66.96	68.20	-1.24
5470.00	Peak	57.19	8.74	65.93	68.20	-2.27

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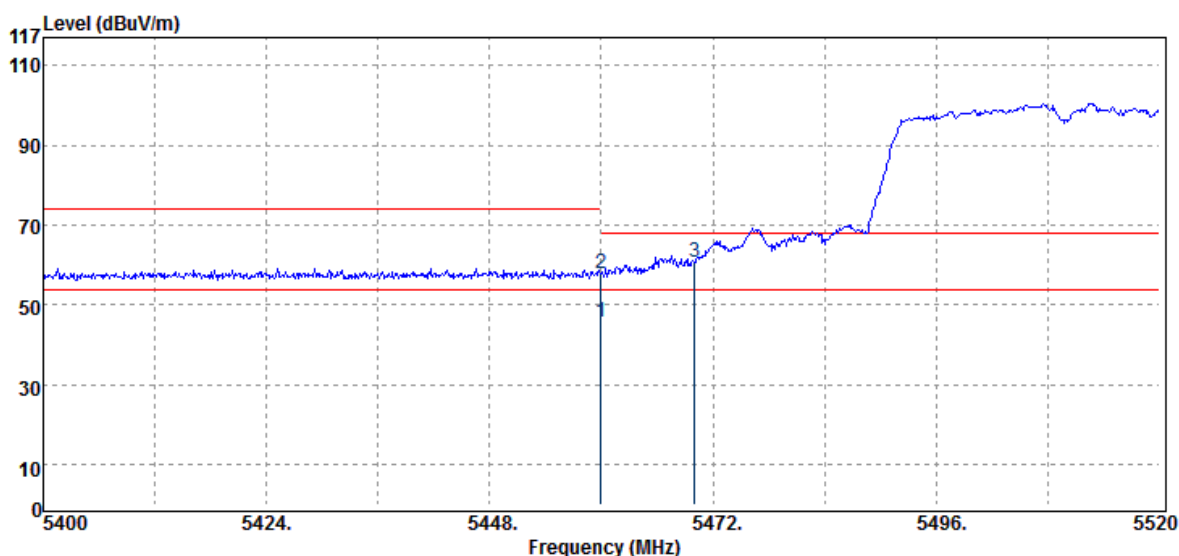
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Member of SGS Group

Operation Band :802.11n40B3
 Fundamental Frequency :5510 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	Average	37.20	8.75	45.95	54.00	-8.05
5460.00	Peak	48.95	8.75	57.70	74.00	-16.30
5470.00	Peak	52.15	8.74	60.89	68.20	-7.31

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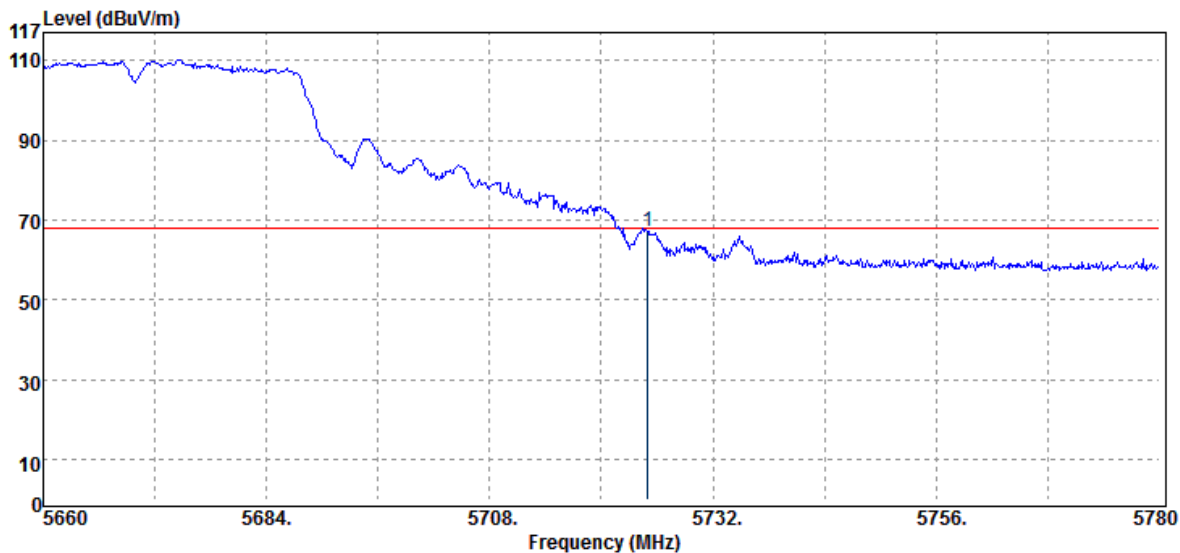
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Operation Band :802.11n40B3
 Fundamental Frequency :5670 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	Peak	57.61	9.44	67.05	68.20	-1.15

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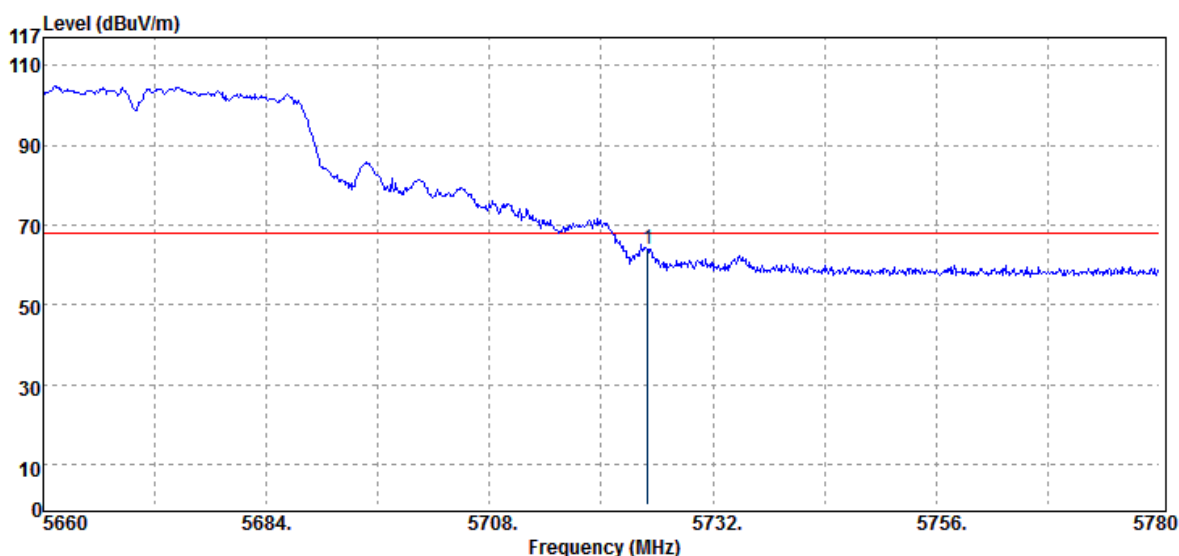
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Member of SGS Group

Operation Band :802.11n40B3
 Fundamental Frequency :5670 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	Peak	54.39	9.44	63.83	68.20	-4.37

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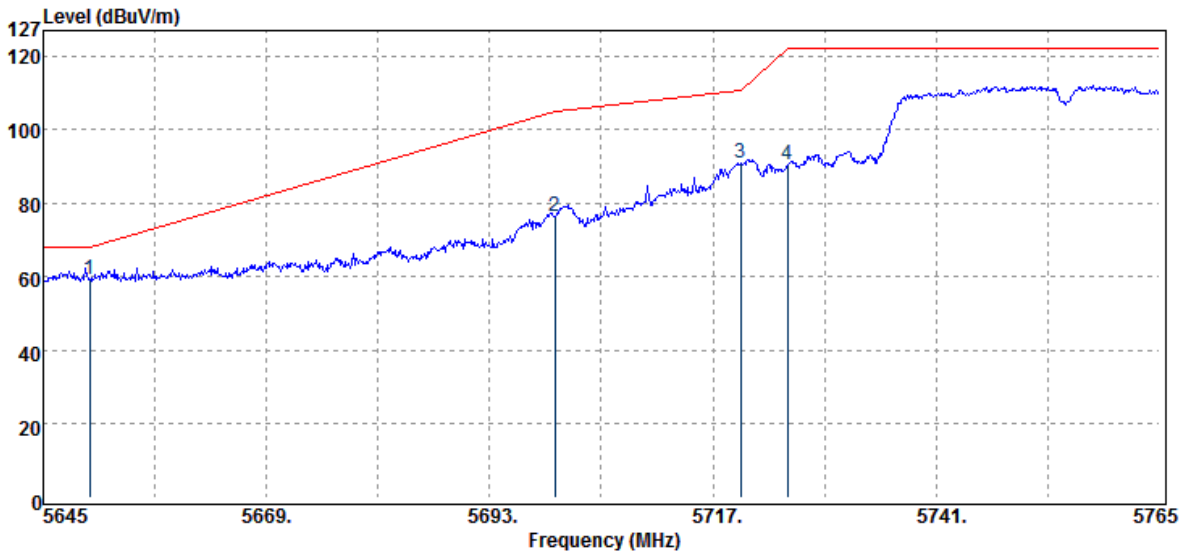
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n40B4
Fundamental Frequency :5755 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2018-07-05
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	50.04	9.20	59.24	68.23	-8.99
5700.00	Peak	67.30	9.35	76.65	105.23	-28.58
5720.00	Peak	81.44	9.43	90.87	110.83	-19.96
5725.00	Peak	81.06	9.44	90.50	122.23	-31.73

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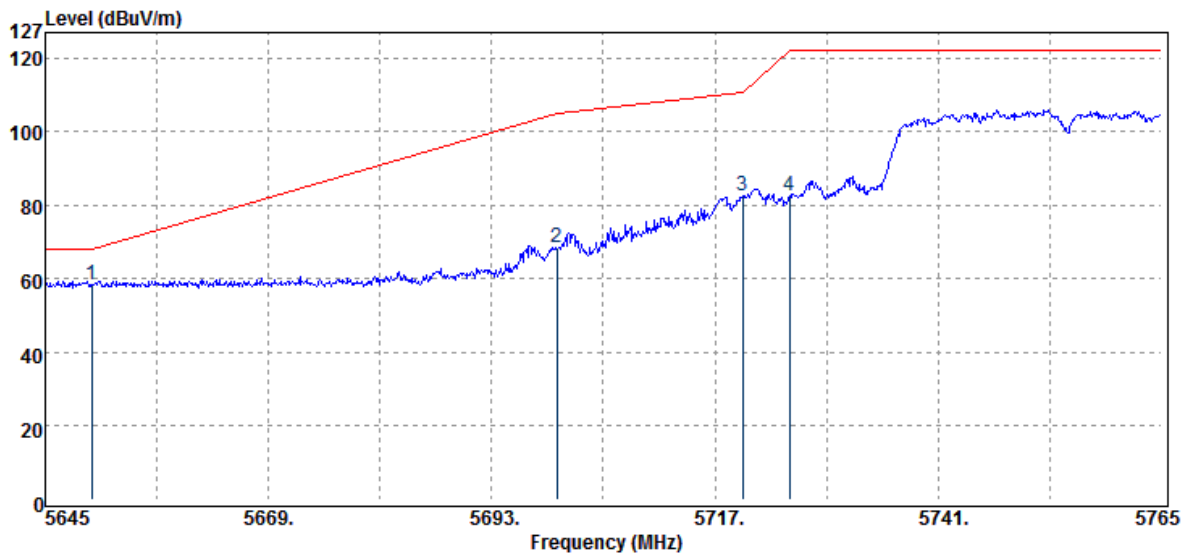
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Operation Band :802.11n40B4
 Fundamental Frequency :5755 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	49.26	9.20	58.46	68.23	-9.77
5700.00	Peak	59.05	9.35	68.40	105.23	-36.83
5720.00	Peak	73.11	9.43	82.54	110.83	-28.29
5725.00	Peak	73.00	9.44	82.44	122.23	-39.79

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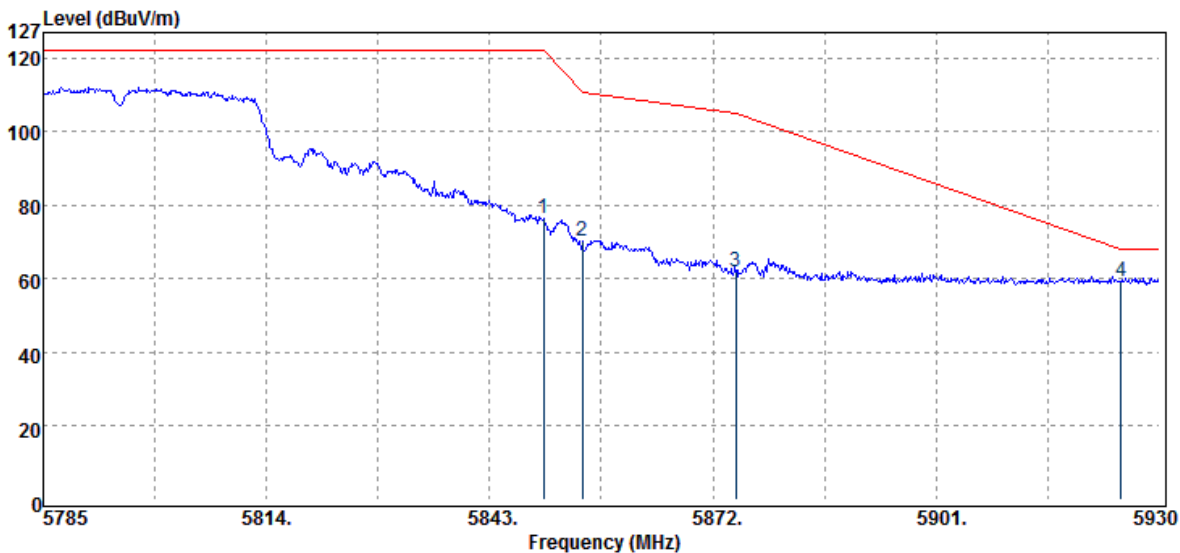
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Member of SGS Group

Operation Band :802.11n40B4
 Fundamental Frequency :5795 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	Peak	66.51	9.77	76.28	122.23	-45.95
5855.00	Peak	60.44	9.78	70.22	110.83	-40.61
5875.00	Peak	52.29	9.82	62.11	105.23	-43.12
5925.00	Peak	49.51	9.98	59.49	68.23	-8.74

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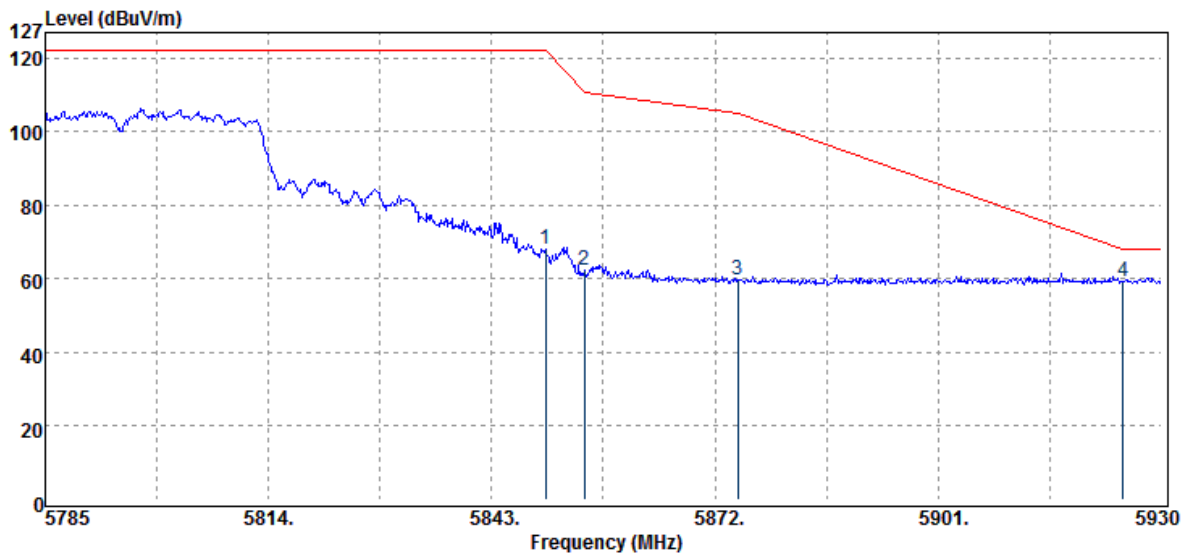
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Operation Band :802.11n40B4
 Fundamental Frequency :5795 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-05
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	58.49	9.77	68.26	122.23	-53.97
5855.00	Peak	52.41	9.78	62.19	110.83	-48.64
5875.00	Peak	49.84	9.82	59.66	105.23	-45.57
5925.00	Peak	49.51	9.98	59.49	68.23	-8.74

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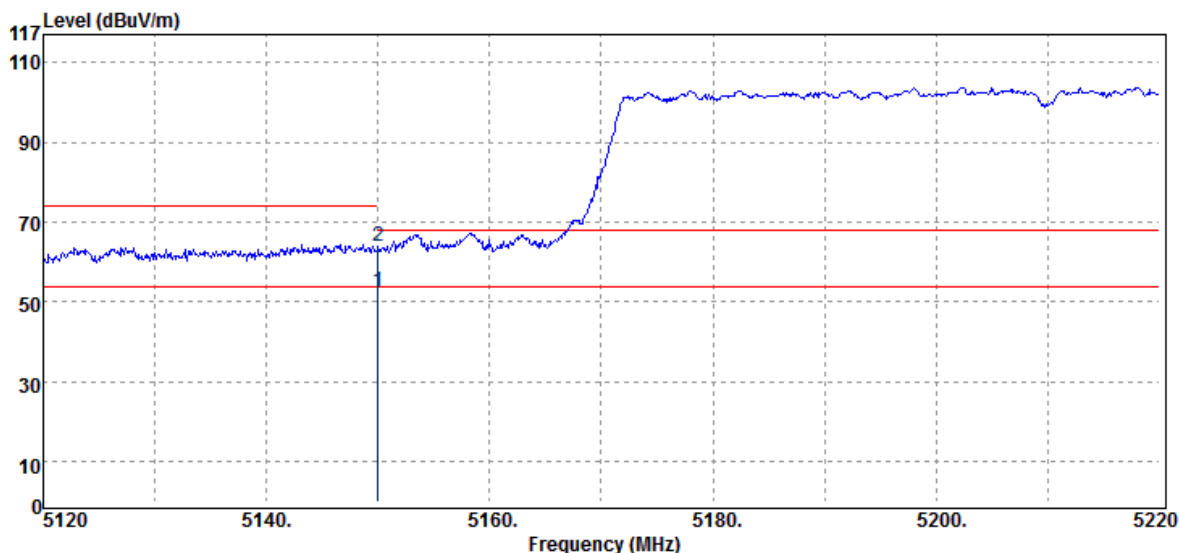
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Member of SGS Group

802.11ac 80 mode

Operation Band :802.11ac80B1
Fundamental Frequency :5210 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2018-07-09
Temp./Humi. :23 deg_C / 62 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	Average	44.18	8.32	52.50	54.00	-1.50
5150.00	Peak	55.58	8.32	63.90	74.00	-10.10

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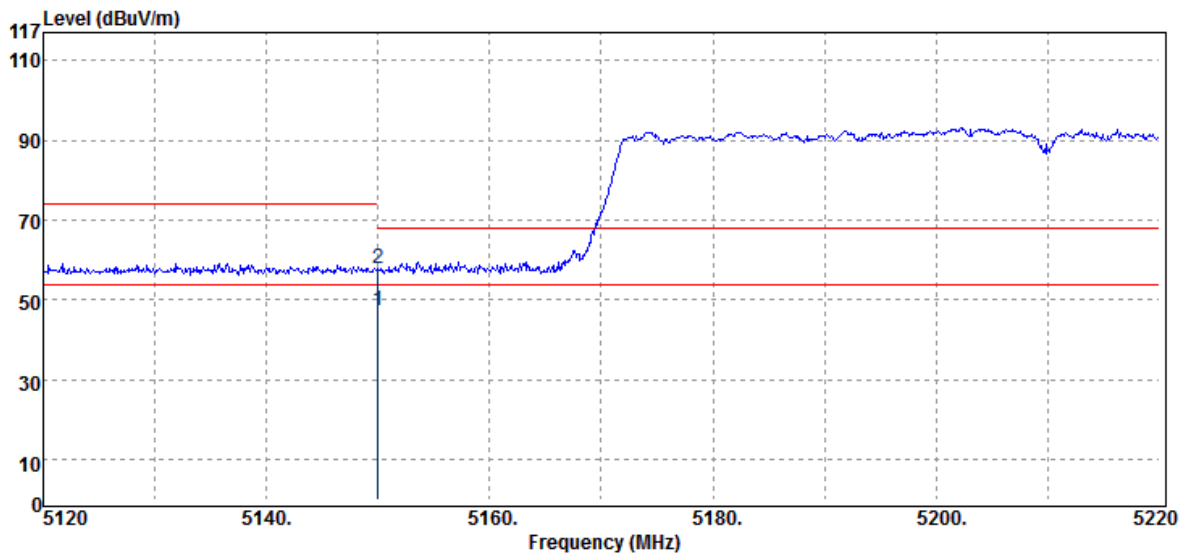
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Member of SGS Group

Operation Band :802.11ac80B1
 Fundamental Frequency :5210 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	Average	38.90	8.32	47.22	54.00	-6.78
5150.00	Peak	49.61	8.32	57.93	74.00	-16.07

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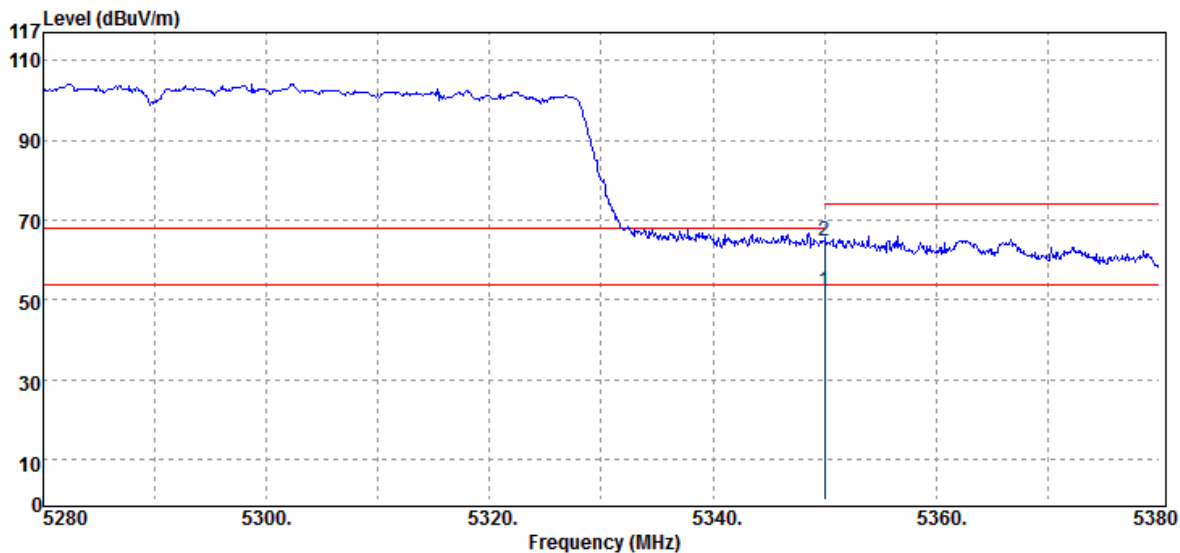
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Member of SGS Group

Operation Band :802.11ac80B2
 Fundamental Frequency :5290 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	Average	43.55	8.63	52.18	54.00	-1.82
5350.00	Peak	56.24	8.63	64.87	74.00	-9.13

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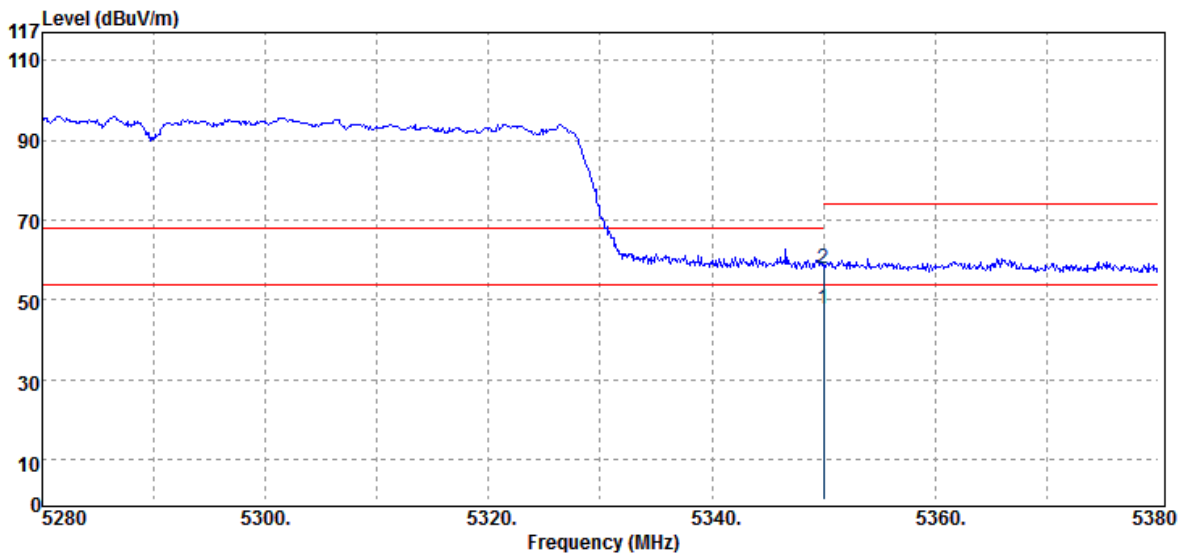
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Operation Band :802.11ac80B2
 Fundamental Frequency :5290 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	Average	39.27	8.63	47.90	54.00	-6.10
5350.00	Peak	49.44	8.63	58.07	74.00	-15.93

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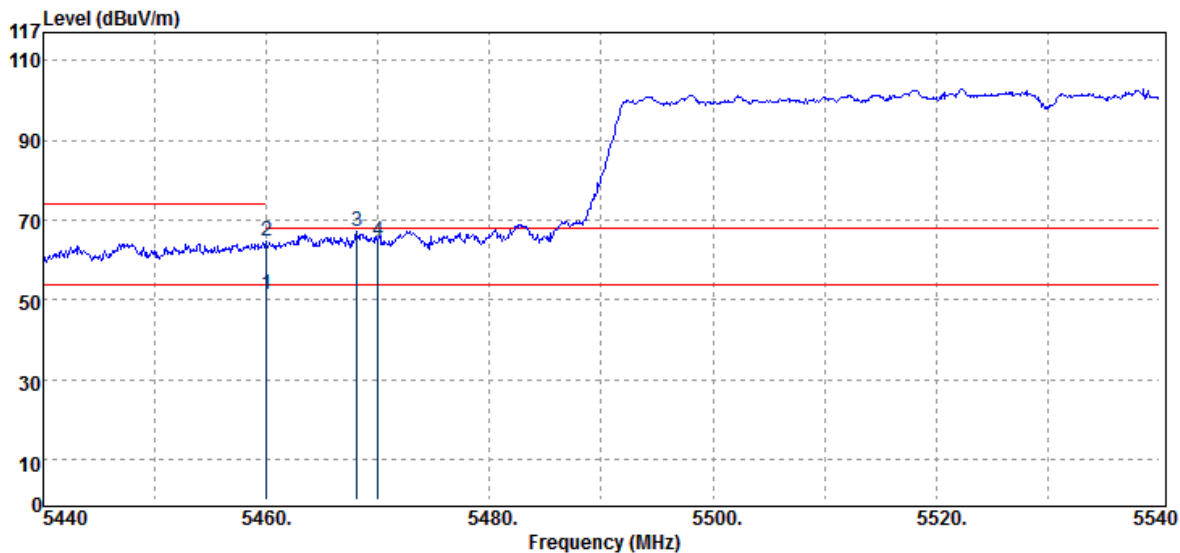
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Operation Band :802.11ac80B3
 Fundamental Frequency :5530 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	42.53	8.75	51.28	54.00	-2.72
5460.00	Peak	56.09	8.75	64.84	74.00	-9.16
5468.10	Peak	58.27	8.74	67.01	68.20	-1.19
5470.00	Peak	55.99	8.74	64.73	68.20	-3.47

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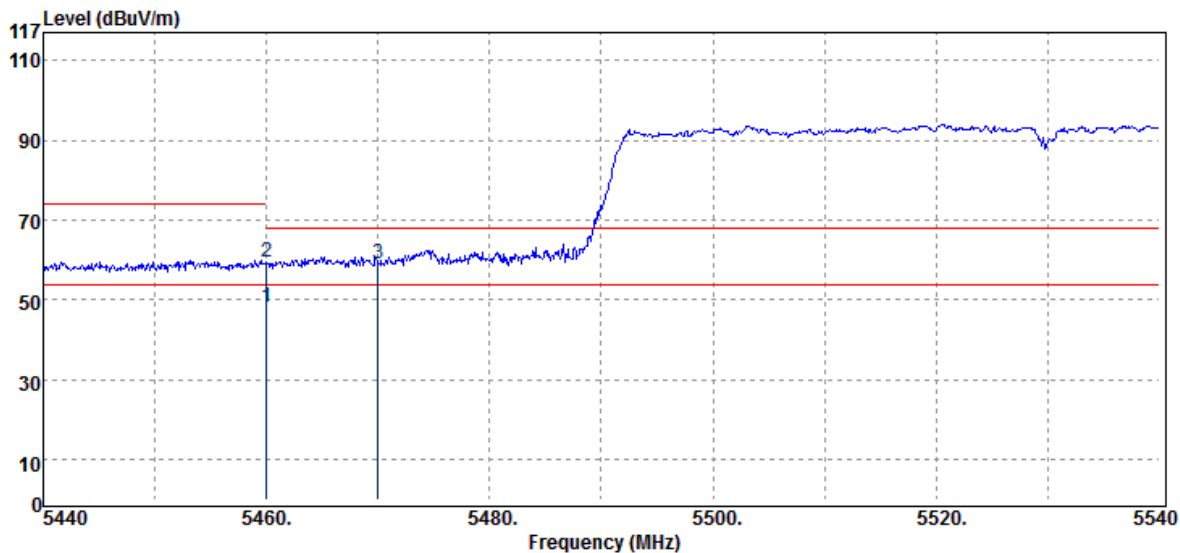
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Operation Band :802.11ac80B3
 Fundamental Frequency :5530 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	Average	39.38	8.75	48.13	54.00	-5.87
5460.00	Peak	50.85	8.75	59.60	74.00	-14.40
5470.00	Peak	50.33	8.74	59.07	68.20	-9.13

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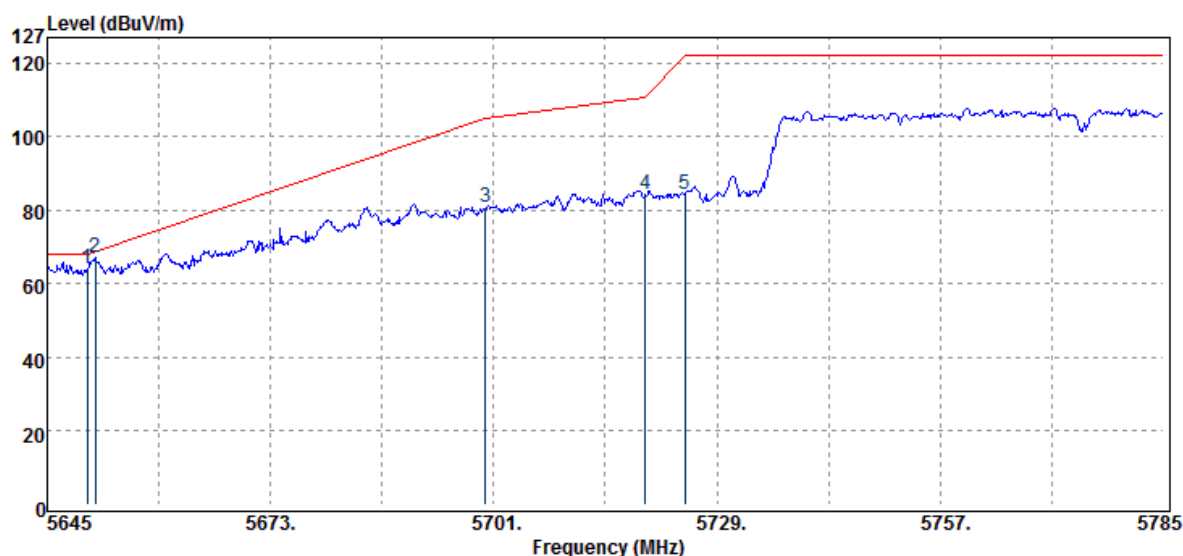
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Operation Band :802.11ac80B4
 Fundamental Frequency :5775 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	55.17	9.20	64.37	68.23	-3.86
5651.02	Peak	57.89	9.20	67.09	68.98	-1.89
5700.00	Peak	71.43	9.35	80.78	105.23	-24.45
5720.00	Peak	75.01	9.43	84.44	110.83	-26.39
5725.00	Peak	74.80	9.44	84.24	122.23	-37.99

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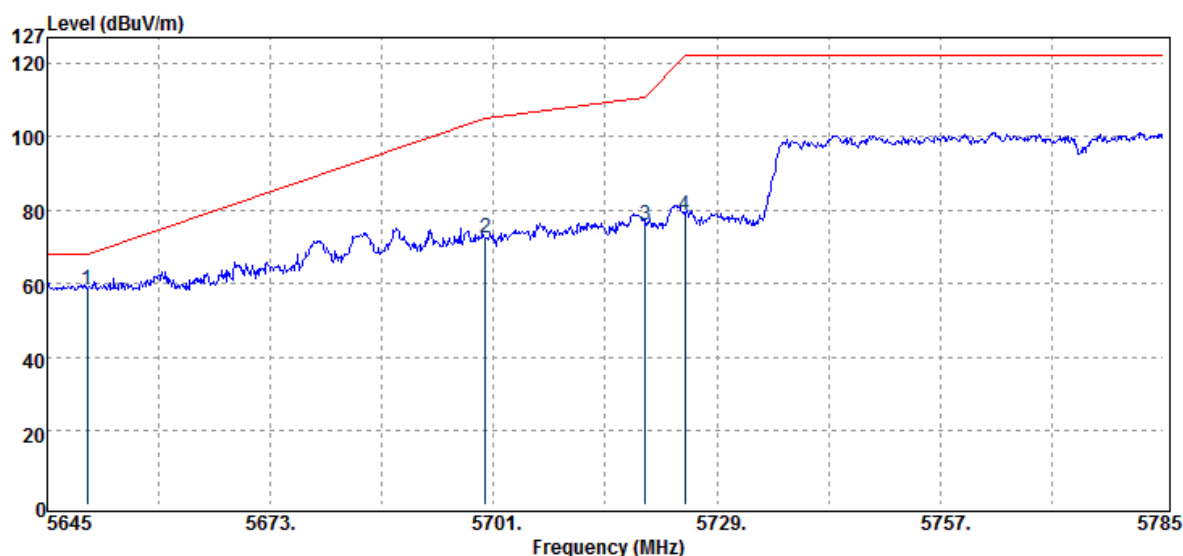
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 Fundamental Frequency :5775 MHz
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 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



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
5650.00	Peak	49.30	9.20	58.50	68.23	-9.73
5700.00	Peak	63.22	9.35	72.57	105.23	-32.66
5720.00	Peak	66.59	9.43	76.02	110.83	-34.81
5725.00	Peak	69.10	9.44	78.54	122.23	-43.69

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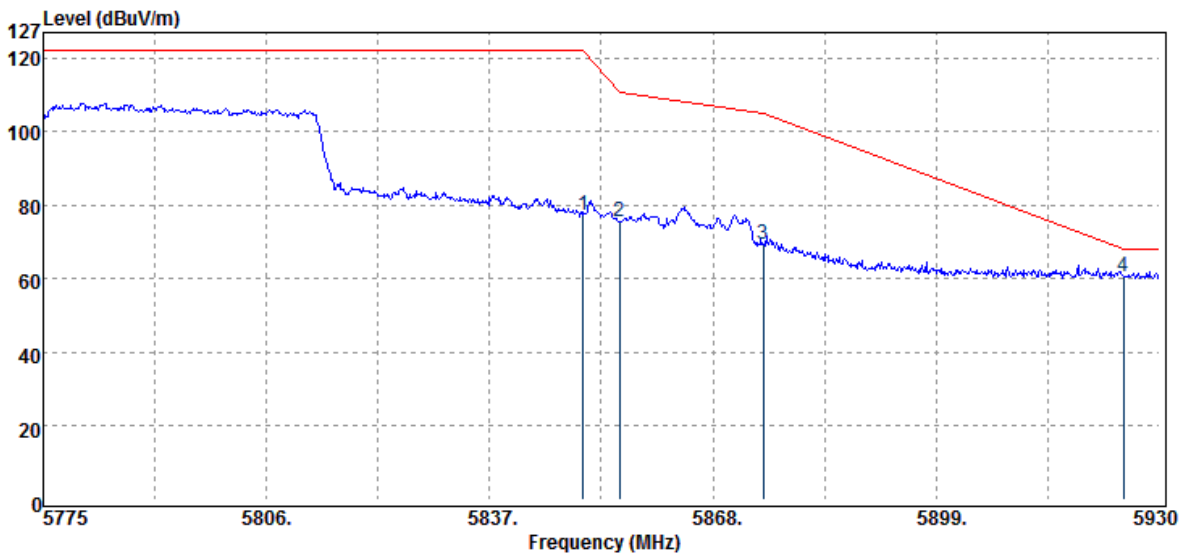
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 Fundamental Frequency :5775 MHz
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 EUT Pol. :H Plane

Test Date :2018-07-09
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	67.41	9.77	77.18	122.23	-45.05
5855.00	Peak	65.62	9.78	75.40	110.83	-35.43
5875.00	Peak	59.66	9.82	69.48	105.23	-35.75
5925.00	Peak	50.65	9.98	60.63	68.23	-7.60

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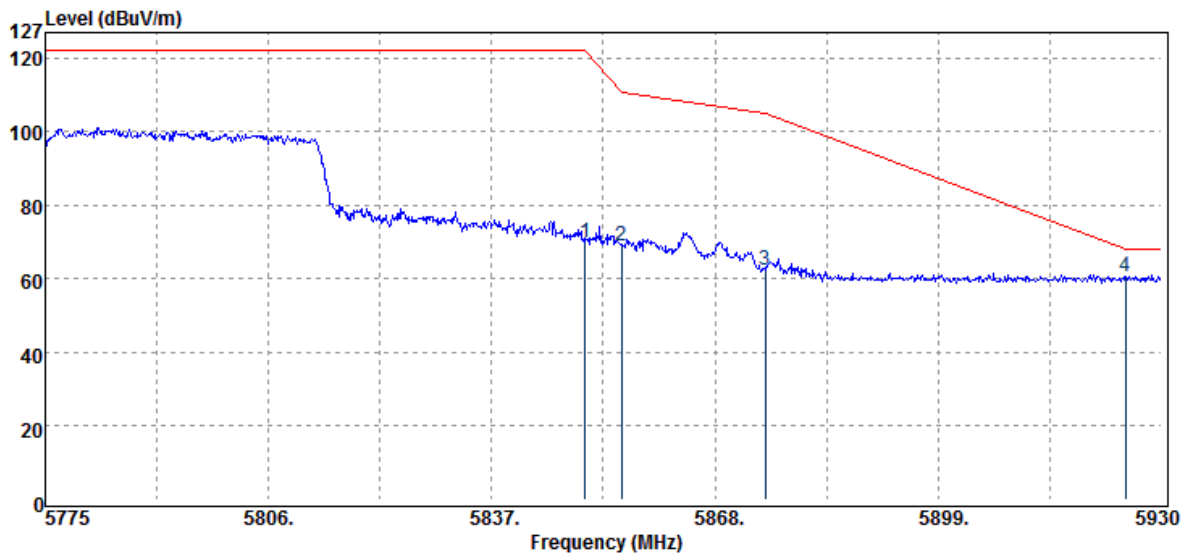
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 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	60.06	9.77	69.83	122.23	-52.40
5855.00	Peak	59.36	9.78	69.14	110.83	-41.69
5875.00	Peak	52.73	9.82	62.55	105.23	-42.68
5925.00	Peak	50.87	9.98	60.85	68.23	-7.38

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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13 FREQUENCY STABILITY

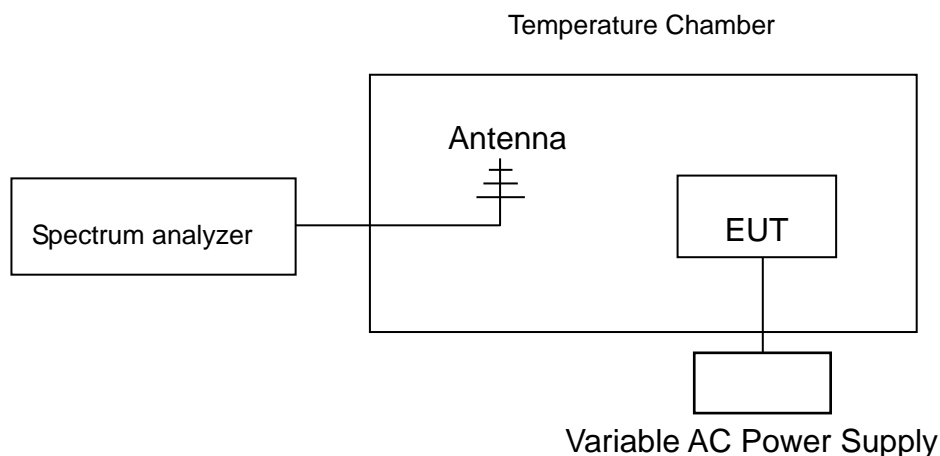
13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

13.3 Test SET-UP



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13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
DC Power Supply	Anritsu	E3640A	MY52410006	2017/11/28	2018/08/28
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	2018/05/03	2018/08/28
Temperature Chamber	TERCHY	MHG-120LF	911009	2018/05/18	2018/08/28
Attenuator	Mini-Circuit	BW-S10W2+	2	2017/11/29	2018/11/28
DC Block	Mini-Circuits	BLK-18-S+	1	2018/01/04	2019/01/03
Coaxial Cables	N/A	WK CE Cable	N/A	2017/12/20	2018/12/19
Notebook	Lenovo	L420	LR-7HXZA	2017/12/29	2018/12/28

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13.5 Measurement Result

Operation Mode	802.11 a	Test Date	2018.07.12
Temperature	:23 °C	Test By	TOM
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	5.5V	36	5180	5,179.99983	0.00000003
		44	5220	5,219.99432	0.00000109
		48	5240	5,240.00538	-0.00000103
		52	5260	5,259.99723	0.00000053
		60	5300	5,300.00702	-0.00000132
		64	5320	5,319.99233	0.00000144
		100	5500	5,499.99430	0.00000104
		116	5580	5,580.00925	-0.00000166
		140	5700	5,699.99173	0.00000145
		144	5720	5,720.00828	-0.00000145
		149	5745	5,744.99898	0.00000018
		157	5785	5,784.99379	0.00000107
		165	5825	5,824.99502	0.00000085
	4.5V	36	5180	5,180.00613	-0.00000118
		44	5220	5,219.99621	0.00000073
		48	5240	5,240.00062	-0.00000012
		52	5260	5,259.99934	0.00000013
		60	5300	5,299.99958	0.00000008
		64	5320	5,320.00392	-0.00000074
		100	5500	5,500.00133	-0.00000024
		116	5580	5,580.00912	-0.00000163
		140	5700	5,700.00591	-0.00000104
		144	5720	5,719.99978	0.00000004
		149	5745	5,744.99409	0.00000103
		157	5785	5,784.99500	0.00000087
		165	5825	5,825.00897	-0.00000154

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25 °C	5V	36	5180	5,180.00860	-0.00000166
		44	5220	5,219.99136	0.00000165
		48	5240	5,240.00532	-0.00000101
		52	5260	5,260.00174	-0.00000033
		60	5300	5,300.00110	-0.00000021
		64	5320	5,320.00019	-0.00000004
		100	5500	5,499.99664	0.00000061
		116	5580	5,579.99687	0.00000056
		140	5700	5,700.00181	-0.00000032
		144	5720	5,720.00543	-0.00000095
		149	5745	5,744.99476	0.00000091
		157	5785	5,785.00964	-0.00000167
		165	5825	5,825.00055	-0.00000009
60 °C	5.5V	36	5180	5,180.00572	-0.00000110
		44	5220	5,220.00932	-0.00000179
		48	5240	5,239.99400	0.00000115
		52	5260	5,259.99998	0.00000000
		60	5300	5,299.99870	0.00000025
		64	5320	5,319.99139	0.00000162
		100	5500	5,500.00054	-0.00000010
		116	5580	5,579.99700	0.00000054
		140	5700	5,700.01000	-0.00000175
		144	5720	5,719.99173	0.00000145
		149	5745	5,744.99993	0.00000001
		157	5785	5,784.99482	0.00000090
		165	5825	5,825.00052	-0.00000009
	4.5V	36	5180	5,179.99137	0.00000167
		44	5220	5,220.00647	-0.00000124
		48	5240	5,239.99541	0.00000088
		52	5260	5,260.00289	-0.00000055
		60	5300	5,299.99083	0.00000173
		64	5320	5,320.00126	-0.00000024
		100	5500	5,499.99961	0.00000007
		116	5580	5,580.00465	-0.00000083
		140	5700	5,699.99639	0.00000063
		144	5720	5,719.99407	0.00000104
		149	5745	5,744.99300	0.00000122
		157	5785	5,784.99062	0.00000162
		165	5825	5,824.99494	0.00000087

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Operation Mode	802.11 a	Test Date	2018.07.12
Temperature	:23 °C	Test By	TOM
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	5.5V	36	5180	5,180.00831	-0.00000160
		44	5220	5,220.00043	-0.00000008
		48	5240	5,239.99680	0.00000061
		52	5260	5,260.00515	-0.00000098
		60	5300	5,299.99044	0.00000180
		64	5320	5,320.00620	-0.00000116
		100	5500	5,500.00832	-0.00000151
		116	5580	5,579.99304	0.00000125
		140	5700	5,700.00304	-0.00000053
		144	5720	5,719.99966	0.00000006
		149	5745	5,744.99596	0.00000070
		157	5785	5,785.00381	-0.00000066
		165	5825	5,824.99773	0.00000039
	4.5V	36	5180	5,180.00145	-0.00000028
		44	5220	5,220.00467	-0.00000089
		48	5240	5,240.00082	-0.00000016
		52	5260	5,260.00385	-0.00000073
		60	5300	5,299.99872	0.00000024
		64	5320	5,319.99371	0.00000118
		100	5500	5,500.00382	-0.00000069
		116	5580	5,579.99231	0.00000138
		140	5700	5,700.00111	-0.00000019
		144	5720	5,719.99275	0.00000127
		149	5745	5,745.00358	-0.00000062
		157	5785	5,785.00671	-0.00000116
		165	5825	5,824.99987	0.00000002

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25 °C	5V	36	5180	5,180.00307	-0.00000059
		44	5220	5,219.99242	0.00000145
		48	5240	5,240.00737	-0.00000141
		52	5260	5,259.99636	0.00000069
		60	5300	5,299.99613	0.00000073
		64	5320	5,319.99196	0.00000151
		100	5500	5,500.00879	-0.00000160
		116	5580	5,580.00284	-0.00000051
		140	5700	5,700.00412	-0.00000072
		144	5720	5,719.99852	0.00000026
		149	5745	5,744.99904	0.00000017
		157	5785	5,784.99519	0.00000083
		165	5825	5,825.00569	-0.00000098
60 °C	5.5V	36	5180	5,179.99546	0.00000088
		44	5220	5,220.00873	-0.00000167
		48	5240	5,239.99443	0.00000106
		52	5260	5,260.00487	-0.00000093
		60	5300	5,300.00496	-0.00000094
		64	5320	5,319.99030	0.00000182
		100	5500	5,500.00808	-0.00000147
		116	5580	5,580.00808	-0.00000145
		140	5700	5,700.00588	-0.00000103
		144	5720	5,720.00699	-0.00000122
		149	5745	5,745.00208	-0.00000036
		157	5785	5,785.00906	-0.00000157
		165	5825	5,825.00886	-0.00000152
	4.5V	36	5180	5,179.99574	0.00000082
		44	5220	5,220.00017	-0.00000003
		48	5240	5,239.99340	0.00000126
		52	5260	5,260.00370	-0.00000070
		60	5300	5,300.00843	-0.00000159
		64	5320	5,319.99869	0.00000025
		100	5500	5,500.00559	-0.00000102
		116	5580	5,579.99851	0.00000027
		140	5700	5,699.99459	0.00000095
		144	5720	5,720.00571	-0.00000100
		149	5745	5,744.99644	0.00000062
		157	5785	5,785.00593	-0.00000103
		165	5825	5,825.00911	-0.00000156

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Operation Mode	802.11 a	Test Date	2018.07.12
Temperature	:23 °C	Test By	TOM
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	5.5V	36	5180	5,180.00388	-0.00000075
		44	5220	5,220.00917	-0.00000176
		48	5240	5,240.00896	-0.00000171
		52	5260	5,259.99788	0.00000040
		60	5300	5,300.00310	-0.00000058
		64	5320	5,319.99041	0.00000180
		100	5500	5,499.99402	0.00000109
		116	5580	5,580.00966	-0.00000173
		140	5700	5,699.99444	0.00000098
		144	5720	5,719.99325	0.00000118
		149	5745	5,744.99617	0.00000067
		157	5785	5,784.99269	0.00000126
		165	5825	5,825.00822	-0.00000141
	4.5V	36	5180	5,179.99110	0.00000172
		44	5220	5,220.00238	-0.00000046
		48	5240	5,239.99074	0.00000177
		52	5260	5,259.99392	0.00000116
		60	5300	5,299.99741	0.00000049
		64	5320	5,319.99178	0.00000155
		100	5500	5,500.00026	-0.00000005
		116	5580	5,580.00722	-0.00000129
		140	5700	5,699.99271	0.00000128
		144	5720	5,719.99428	0.00000100
		149	5745	5,745.00204	-0.00000035
		157	5785	5,785.00531	-0.00000092
		165	5825	5,825.00470	-0.00000081

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25 °C	5V	36	5180	5,179.99497	0.00000097
		44	5220	5,219.99313	0.00000132
		48	5240	5,239.99774	0.00000043
		52	5260	5,259.99804	0.00000037
		60	5300	5,300.00522	-0.00000098
		64	5320	5,319.99566	0.00000082
		100	5500	5,499.99443	0.00000101
		116	5580	5,579.99488	0.00000092
		140	5700	5,699.99871	0.00000023
		144	5720	5,719.99699	0.00000053
		149	5745	5,745.00507	-0.00000088
		157	5785	5,784.99375	0.00000108
		165	5825	5,824.99501	0.00000086
60 °C	5.5V	36	5180	5,179.99246	0.00000146
		44	5220	5,219.99098	0.00000173
		48	5240	5,239.99975	0.00000005
		52	5260	5,260.00399	-0.00000076
		60	5300	5,300.00831	-0.00000157
		64	5320	5,319.99664	0.00000063
		100	5500	5,500.00946	-0.00000172
		116	5580	5,580.00237	-0.00000043
		140	5700	5,700.00829	-0.00000145
		144	5720	5,720.00081	-0.00000014
		149	5745	5,744.99067	0.00000162
		157	5785	5,784.99722	0.00000048
		165	5825	5,825.00149	-0.00000026
	4.5V	36	5180	5,180.00363	-0.00000070
		44	5220	5,220.00496	-0.00000095
		48	5240	5,239.99019	0.00000187
		52	5260	5,260.00358	-0.00000068
		60	5300	5,299.99792	0.00000039
		64	5320	5,319.99077	0.00000173
		100	5500	5,500.00626	-0.00000114
		116	5580	5,579.99512	0.00000088
		140	5700	5,699.99160	0.00000147
		144	5720	5,719.99941	0.00000010
		149	5745	5,745.00854	-0.00000149
		157	5785	5,785.00766	-0.00000132
		165	5825	5,824.99718	0.00000048

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Operation Mode	802.11 a	Test Date	2018.07.12
Temperature	:23 °C	Test By	TOM
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	5.5V	36	5180	5,180.00175	-0.00000034
		44	5220	5,219.99505	0.00000095
		48	5240	5,239.99570	0.00000082
		52	5260	5,260.00660	-0.00000126
		60	5300	5,299.99898	0.00000019
		64	5320	5,319.99561	0.00000083
		100	5500	5,500.00707	-0.00000129
		116	5580	5,579.99614	0.00000069
		140	5700	5,699.99691	0.00000054
		144	5720	5,719.99101	0.00000157
		149	5745	5,745.00732	-0.00000127
		157	5785	5,785.00458	-0.00000079
		165	5825	5,824.99402	0.00000103
	4.5V	36	5180	5,180.00518	-0.00000100
		44	5220	5,219.99068	0.00000179
		48	5240	5,240.00147	-0.00000028
		52	5260	5,259.99879	0.00000023
		60	5300	5,300.00775	-0.00000146
		64	5320	5,319.99754	0.00000046
		100	5500	5,500.00272	-0.00000049
		116	5580	5,579.99501	0.00000089
		140	5700	5,699.99847	0.00000027
		144	5720	5,720.00369	-0.00000065
		149	5745	5,744.99183	0.00000142
		157	5785	5,784.99604	0.00000069
		165	5825	5,825.00935	-0.00000160

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25 °C	5V	36	5180	5,180.00299	-0.00000058
		44	5220	5,219.99502	0.00000095
		48	5240	5,240.00653	-0.00000125
		52	5260	5,259.99766	0.00000045
		60	5300	5,300.00588	-0.00000111
		64	5320	5,319.99601	0.00000075
		100	5500	5,499.99450	0.00000100
		116	5580	5,579.99013	0.00000177
		140	5700	5,700.00855	-0.00000150
		144	5720	5,719.99496	0.00000088
		149	5745	5,745.00636	-0.00000111
		157	5785	5,785.00849	-0.00000147
		165	5825	5,825.00109	-0.00000019
60 °C	5.5V	36	5180	5,180.00763	-0.00000147
		44	5220	5,219.99901	0.00000019
		48	5240	5,239.99832	0.00000032
		52	5260	5,260.00381	-0.00000073
		60	5300	5,299.99716	0.00000054
		64	5320	5,320.00811	-0.00000152
		100	5500	5,499.99234	0.00000139
		116	5580	5,579.99255	0.00000133
		140	5700	5,699.99875	0.00000022
		144	5720	5,720.00568	-0.00000099
		149	5745	5,744.99369	0.00000110
		157	5785	5,785.00466	-0.00000080
		165	5825	5,824.99249	0.00000129
	4.5V	36	5180	5,180.00660	-0.00000127
		44	5220	5,220.00530	-0.00000102
		48	5240	5,240.00783	-0.00000149
		52	5260	5,260.00883	-0.00000168
		60	5300	5,299.99919	0.00000015
		64	5320	5,320.00112	-0.00000021
		100	5500	5,499.99239	0.00000138
		116	5580	5,580.00133	-0.00000024
		140	5700	5,699.99267	0.00000129
		144	5720	5,720.00082	-0.00000014
		149	5745	5,744.99224	0.00000135
		157	5785	5,784.99559	0.00000076
		165	5825	5,824.99341	0.00000113

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Operation Mode	802.11 n_HT40	Test Date	2018.07.12
Temperature	:23 °C	Test By	TOM
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	5.5V	38	5190	5,189.99987	0.00000002
		46	5230	5,229.99547	0.00000087
		54	5270	5,269.99040	0.00000182
		62	5310	5,309.99664	0.00000063
		102	5510	5,509.99677	0.00000059
		110	5550	5,550.00694	-0.00000125
		134	5670	5,670.00926	-0.00000163
		142	5710	5,710.00620	-0.00000109
		151	5755	5,754.99546	0.00000079
		159	5795	5,794.99636	0.00000063
	4.5V	38	5190	5,189.99852	0.00000028
		46	5230	5,230.00720	-0.00000138
		54	5270	5,269.99518	0.00000091
		62	5310	5,309.99555	0.00000084
		102	5510	5,510.00752	-0.00000137
		110	5550	5,549.99132	0.00000156
		134	5670	5,670.00987	-0.00000174
		142	5710	5,709.99142	0.00000150
		151	5755	5,755.00961	-0.00000167
		159	5795	5,794.99037	0.00000166

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25 °C	5V	38	5190	5,189.99309	0.00000133
		46	5230	5,230.00388	-0.00000074
		54	5270	5,269.99415	0.00000111
		62	5310	5,309.99719	0.00000053
		102	5510	5,510.00802	-0.00000145
		110	5550	5,549.99454	0.00000098
		134	5670	5,670.00071	-0.00000012
		142	5710	5,709.99278	0.00000126
		151	5755	5,755.00098	-0.00000017
		159	5795	5,795.00208	-0.00000036
60 °C	5.5V	38	5190	5,189.99270	0.00000141
		46	5230	5,229.99742	0.00000049
		54	5270	5,269.99932	0.00000013
		62	5310	5,310.00674	-0.00000127
		102	5510	5,510.00771	-0.00000140
		110	5550	5,549.99382	0.00000111
		134	5670	5,669.99817	0.00000032
		142	5710	5,709.99822	0.00000031
		151	5755	5,755.00228	-0.00000040
		159	5795	5,794.99993	0.00000001
	4.5V	38	5190	5,190.00734	-0.00000141
		46	5230	5,229.99898	0.00000020
		54	5270	5,270.00810	-0.00000154
		62	5310	5,309.99491	0.00000096
		102	5510	5,510.00812	-0.00000147
		110	5550	5,550.00676	-0.00000122
		134	5670	5,670.00415	-0.00000073
		142	5710	5,709.99976	0.00000004
		151	5755	5,755.00084	-0.00000015
		159	5795	5,794.99577	0.00000073

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Operation Mode	802.11 n_HT40	Test Date	2018.07.12
Temperature	:23 °C	Test By	TOM
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	5.5V	38	5190	5,190.00872	-0.00000168
		46	5230	5,229.99809	0.00000037
		54	5270	5,269.99622	0.00000072
		62	5310	5,310.00314	-0.00000059
		102	5510	5,509.99591	0.00000074
		110	5550	5,549.99489	0.00000092
		134	5670	5,670.00427	-0.00000075
		142	5710	5,710.00611	-0.00000107
		151	5755	5,754.99939	0.00000011
		159	5795	5,795.00935	-0.00000161
	4.5V	38	5190	5,190.00432	-0.00000083
		46	5230	5,229.99976	0.00000005
		54	5270	5,270.00073	-0.00000014
		62	5310	5,309.99994	0.00000001
		102	5510	5,509.99530	0.00000085
		110	5550	5,550.00544	-0.00000098
		134	5670	5,670.00223	-0.00000039
		142	5710	5,710.00290	-0.00000051
		151	5755	5,754.99889	0.00000019
		159	5795	5,795.00320	-0.00000055

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25 °C	5V	38	5190	5,189.99362	0.00000123
		46	5230	5,229.99040	0.00000184
		54	5270	5,269.99301	0.00000133
		62	5310	5,309.99781	0.00000041
		102	5510	5,510.00115	-0.00000021
		110	5550	5,550.00272	-0.00000049
		134	5670	5,669.99669	0.00000058
		142	5710	5,709.99932	0.00000012
		151	5755	5,755.00967	-0.00000168
		159	5795	5,794.99534	0.00000080
60 °C	5.5V	38	5190	5,190.00317	-0.00000061
		46	5230	5,230.00133	-0.00000025
		54	5270	5,270.00343	-0.00000065
		62	5310	5,309.99489	0.00000096
		102	5510	5,510.00119	-0.00000022
		110	5550	5,549.99245	0.00000136
		134	5670	5,669.99496	0.00000089
		142	5710	5,709.99971	0.00000005
		151	5755	5,754.99055	0.00000164
		159	5795	5,794.99445	0.00000096
	4.5V	38	5190	5,190.00400	-0.00000077
		46	5230	5,229.99337	0.00000127
		54	5270	5,270.00519	-0.00000098
		62	5310	5,310.00536	-0.00000101
		102	5510	5,509.99428	0.00000104
		110	5550	5,549.99702	0.00000054
		134	5670	5,669.99482	0.00000091
		142	5710	5,710.00661	-0.00000116
		151	5755	5,754.99071	0.00000161
		159	5795	5,795.00556	-0.00000096

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Operation Mode	802.11 n_HT40	Test Date	2018.07.12
Temperature	:23 °C	Test By	TOM
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	5.5V	38	5190	5,190.00061	-0.00000012
		46	5230	5,230.00941	-0.00000180
		54	5270	5,270.00879	-0.00000167
		62	5310	5,309.99503	0.00000094
		102	5510	5,510.00711	-0.00000129
		110	5550	5,550.00954	-0.00000172
		134	5670	5,670.00044	-0.00000008
		142	5710	5,709.99882	0.00000021
		151	5755	5,754.99277	0.00000126
		159	5795	5,795.00666	-0.00000115
	4.5V	38	5190	5,189.99474	0.00000101
		46	5230	5,230.00745	-0.00000142
		54	5270	5,269.99665	0.00000064
		62	5310	5,309.99719	0.00000053
		102	5510	5,509.99424	0.00000105
		110	5550	5,550.00113	-0.00000020
		134	5670	5,670.00109	-0.00000019
		142	5710	5,710.00016	-0.00000003
		151	5755	5,755.00482	-0.00000084
		159	5795	5,795.00994	-0.00000172

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25 °C	5V	38	5190	5,189.99281	0.00000138
		46	5230	5,230.00691	-0.00000132
		54	5270	5,270.00107	-0.00000020
		62	5310	5,310.00382	-0.00000072
		102	5510	5,510.00747	-0.00000136
		110	5550	5,549.99469	0.00000096
		134	5670	5,669.99619	0.00000067
		142	5710	5,710.00040	-0.00000007
		151	5755	5,754.99551	0.00000078
		159	5795	5,795.00395	-0.00000068
60 °C	5.5V	38	5190	5,189.99544	0.00000088
		46	5230	5,229.99690	0.00000059
		54	5270	5,270.00263	-0.00000050
		62	5310	5,309.99121	0.00000166
		102	5510	5,510.00670	-0.00000122
		110	5550	5,550.00289	-0.00000052
		134	5670	5,669.99317	0.00000120
		142	5710	5,710.00786	-0.00000138
		151	5755	5,755.00112	-0.00000019
		159	5795	5,795.00054	-0.00000009
	4.5V	38	5190	5,190.00294	-0.00000057
		46	5230	5,229.99831	0.00000032
		54	5270	5,269.99768	0.00000044
		62	5310	5,309.99551	0.00000085
		102	5510	5,510.00062	-0.00000011
		110	5550	5,550.00612	-0.00000110
		134	5670	5,670.00702	-0.00000124
		142	5710	5,710.00637	-0.00000112
		151	5755	5,754.99892	0.00000019
		159	5795	5,795.00498	-0.00000086

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Operation Mode	802.11 n_HT40	Test Date	2018.07.12
Temperature	:23 °C	Test By	TOM
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	5.5V	38	5190	5,189.99090	0.00000175
		46	5230	5,229.99202	0.00000153
		54	5270	5,270.00622	-0.00000118
		62	5310	5,310.00196	-0.00000037
		102	5510	5,509.99734	0.00000048
		110	5550	5,550.00448	-0.00000081
		134	5670	5,670.00606	-0.00000107
		142	5710	5,710.00066	-0.00000012
		151	5755	5,754.99991	0.00000002
		159	5795	5,795.00783	-0.00000135
	4.5V	38	5190	5,189.99513	0.00000094
		46	5230	5,230.00766	-0.00000146
		54	5270	5,269.99182	0.00000155
		62	5310	5,309.99964	0.00000007
		102	5510	5,510.00962	-0.00000175
		110	5550	5,549.99668	0.00000060
		134	5670	5,669.99759	0.00000043
		142	5710	5,710.00222	-0.00000039
		151	5755	5,755.00848	-0.00000147
		159	5795	5,794.99125	0.00000151

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25 °C	5V	38	5190	5,189.99834	0.00000032
		46	5230	5,229.99704	0.00000057
		54	5270	5,270.00297	-0.00000056
		62	5310	5,310.00129	-0.00000024
		102	5510	5,509.99209	0.00000144
		110	5550	5,549.99453	0.00000099
		134	5670	5,670.00657	-0.00000116
		142	5710	5,709.99748	0.00000044
		151	5755	5,754.99518	0.00000084
		159	5795	5,795.00708	-0.00000122
60 °C	5.5V	38	5190	5,190.00365	-0.00000070
		46	5230	5,230.00353	-0.00000068
		54	5270	5,269.99449	0.00000105
		62	5310	5,309.99627	0.00000070
		102	5510	5,510.00764	-0.00000139
		110	5550	5,549.99111	0.00000160
		134	5670	5,669.99196	0.00000142
		142	5710	5,709.99299	0.00000123
		151	5755	5,754.99709	0.00000051
		159	5795	5,794.99864	0.00000023
	4.5V	38	5190	5,190.00874	-0.00000168
		46	5230	5,229.99350	0.00000124
		54	5270	5,270.00988	-0.00000188
		62	5310	5,309.99063	0.00000176
		102	5510	5,510.00932	-0.00000169
		110	5550	5,549.99815	0.00000033
		134	5670	5,670.00495	-0.00000087
		142	5710	5,709.99866	0.00000024
		151	5755	5,754.99170	0.00000144
		159	5795	5,794.99177	0.00000142

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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

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.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

14.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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