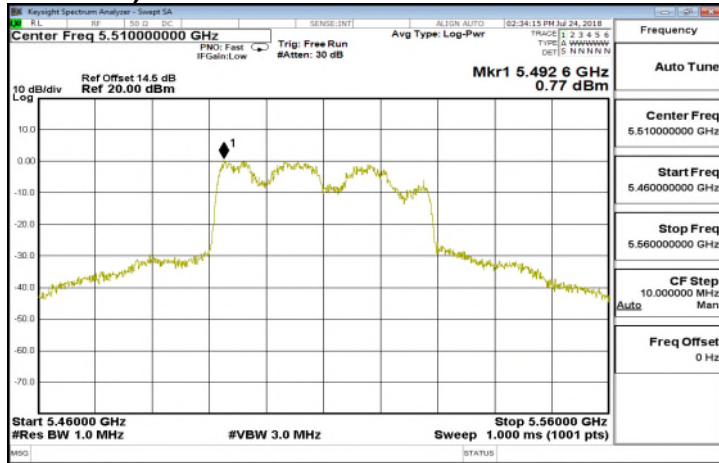
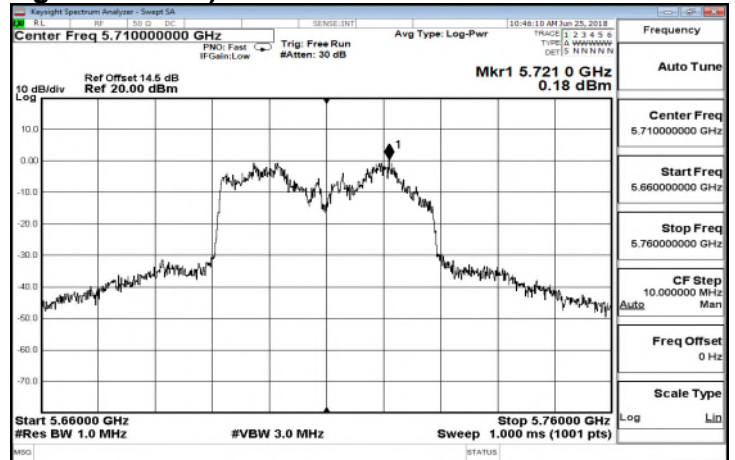


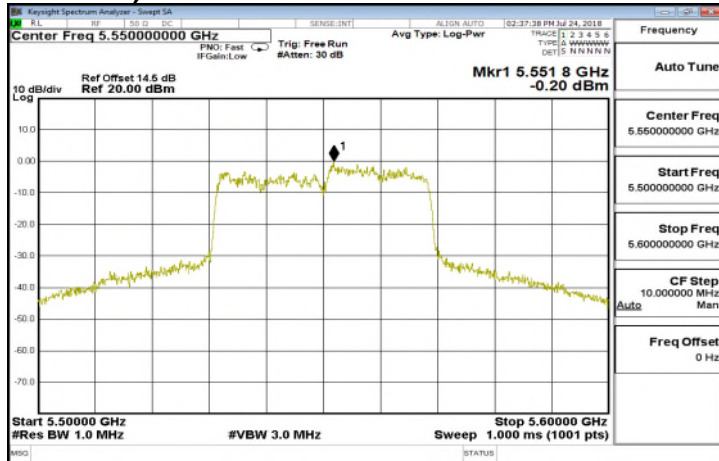
802.11n HT40, 5470~5725 MHz  
Maximum Power Spectral Density Data Plot (CH Low 5510 MHz)



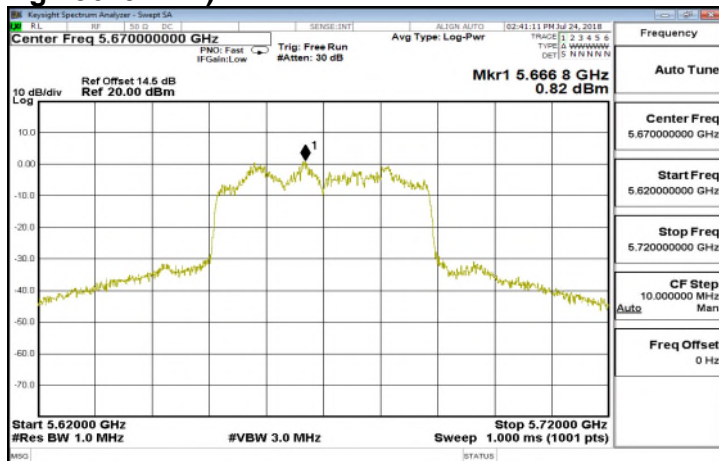
Maximum Power Spectral Density Data Plot (CH High 5710 MHz)



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



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

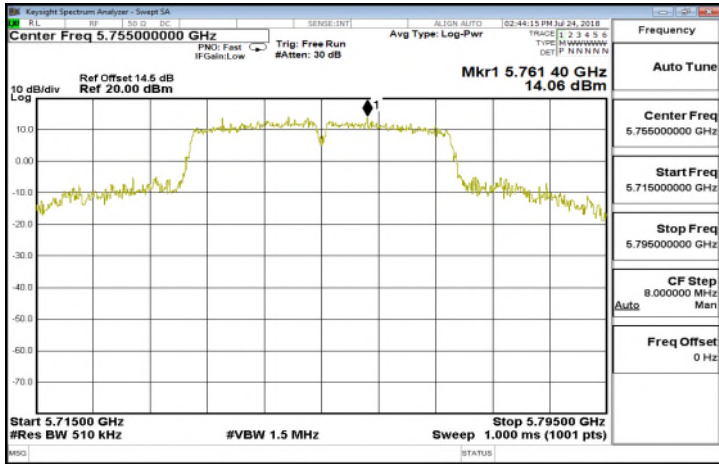


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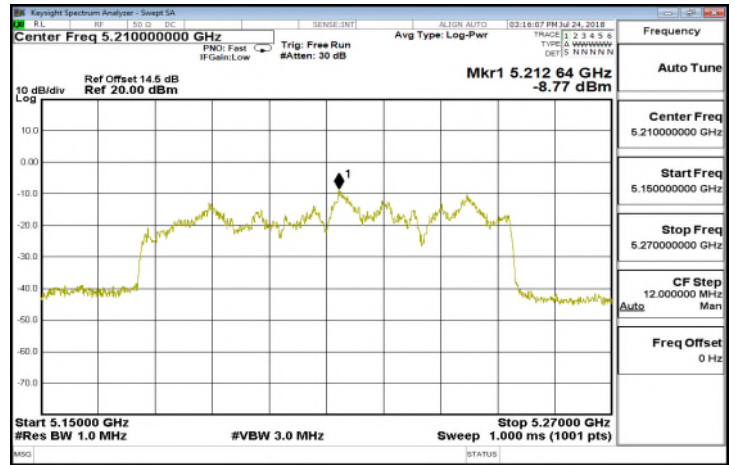
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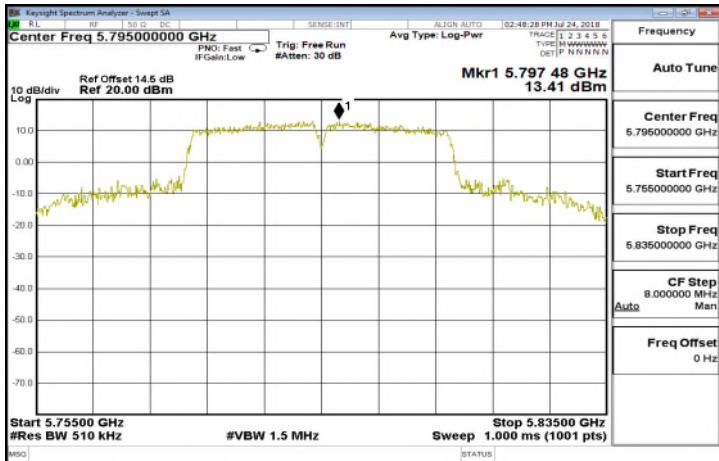
**802.11n HT40, 5725~5850 MHz**  
**Maximum Power Spectral Density Data Plot (CH Low 5755 MHz)**



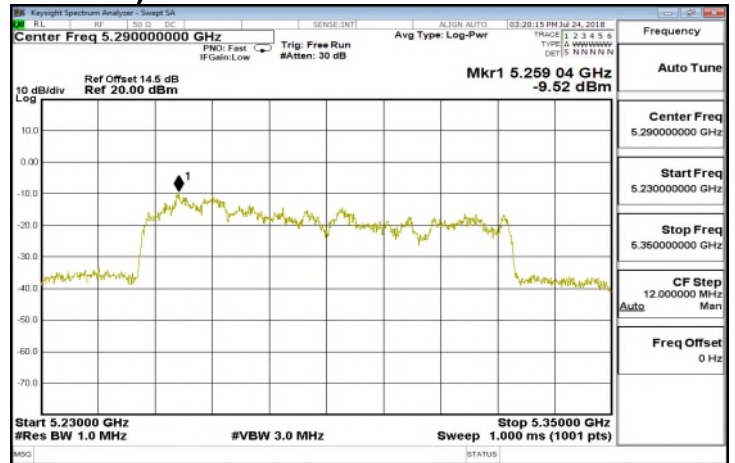
**802.11ac VHT80, 5150~5250 MHz**  
**Maximum Power Spectral Density Data Plot (CH Mid 5210 MHz)**



**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)**

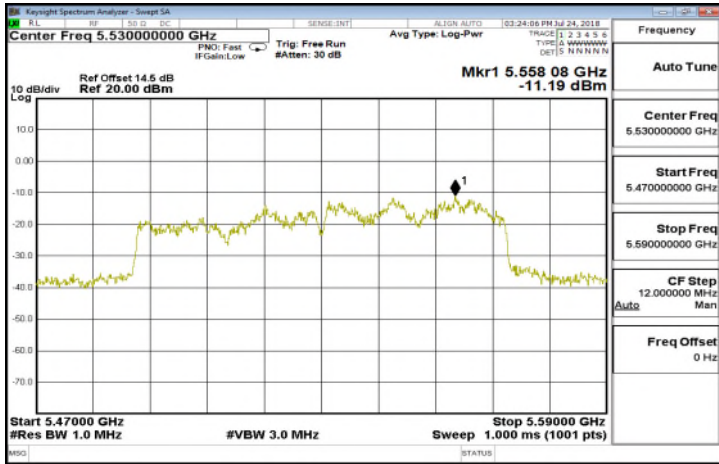


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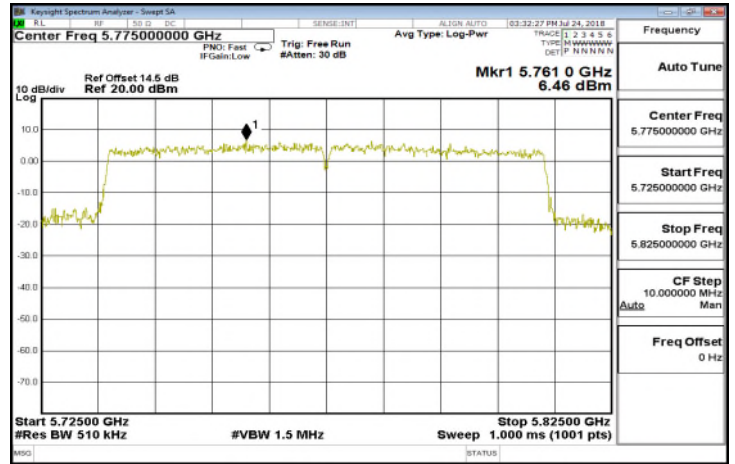
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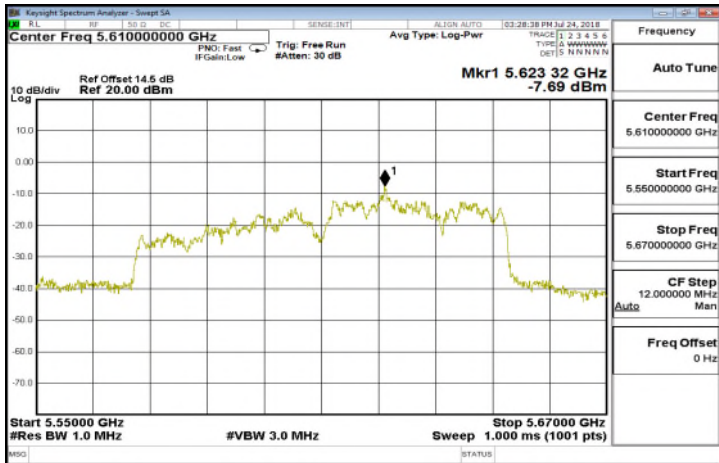
**802.11ac VHT80, 5470~5725 MHz**  
**Maximum Power Spectral Density Data Plot (CH Low**  
**5530 MHz)**



**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 Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Broadband Antenna	TESEQ	CBL 6112D	35243	2017/11/10	2018/11/9
Horn Antenna	Schwarzbeck	BBHA9120D	1187	2018/01/04	2019/1/3
Loop Antenna	ETS.LINDGREN	6502	148045	2017/09/26	2018/9/25
Horn Antenna	SCHWAZBECK	BBHA9170	184	2017/12/12	2018/12/11
EMI Test Receiver	R&S	ESU 40	100363	2018/04/11	2019/4/10
Pre-Amplifier	EMC Instruments	EMC330	980096	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC0011830	980199	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC184045B	980135	2017/10/27	2018/10/26
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	2017/12/26	2018/12/25

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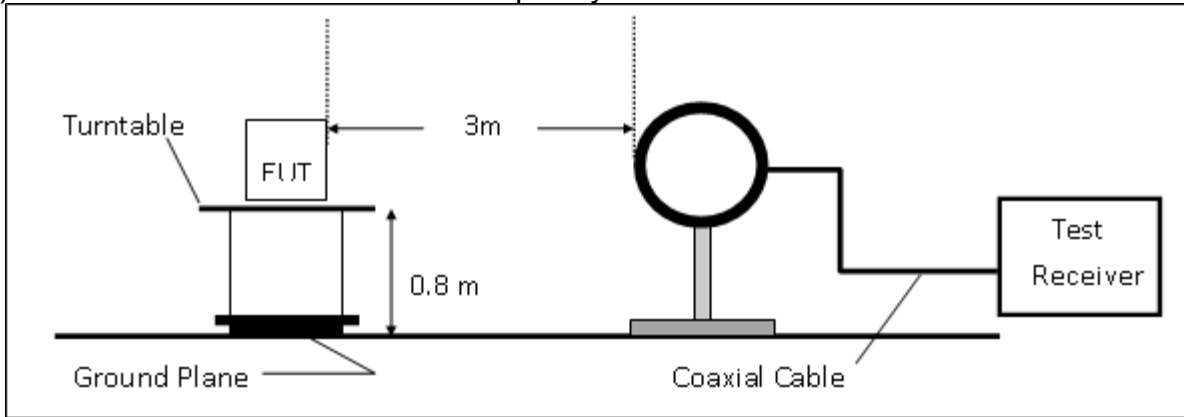
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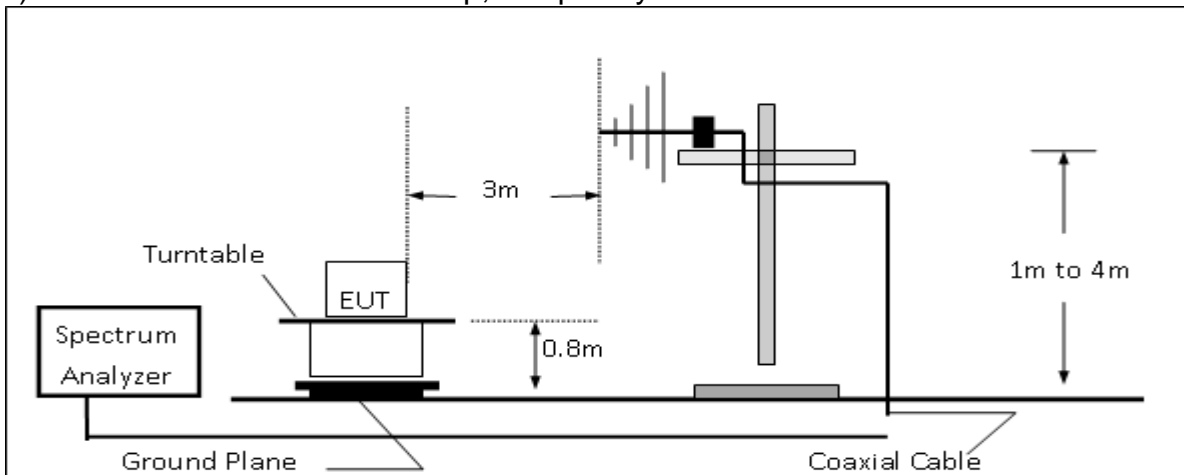
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### 11.3 Test SET-UP

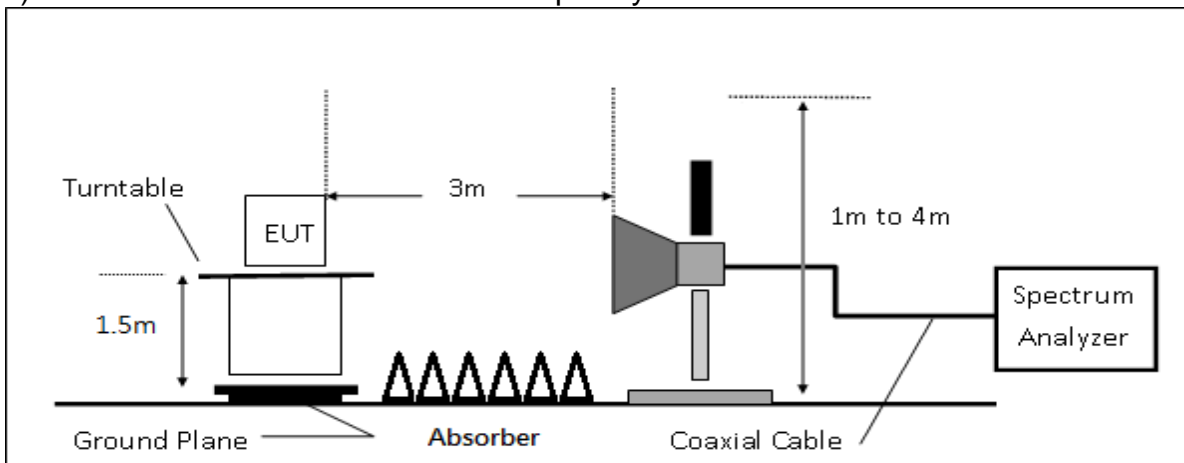
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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)

### 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.

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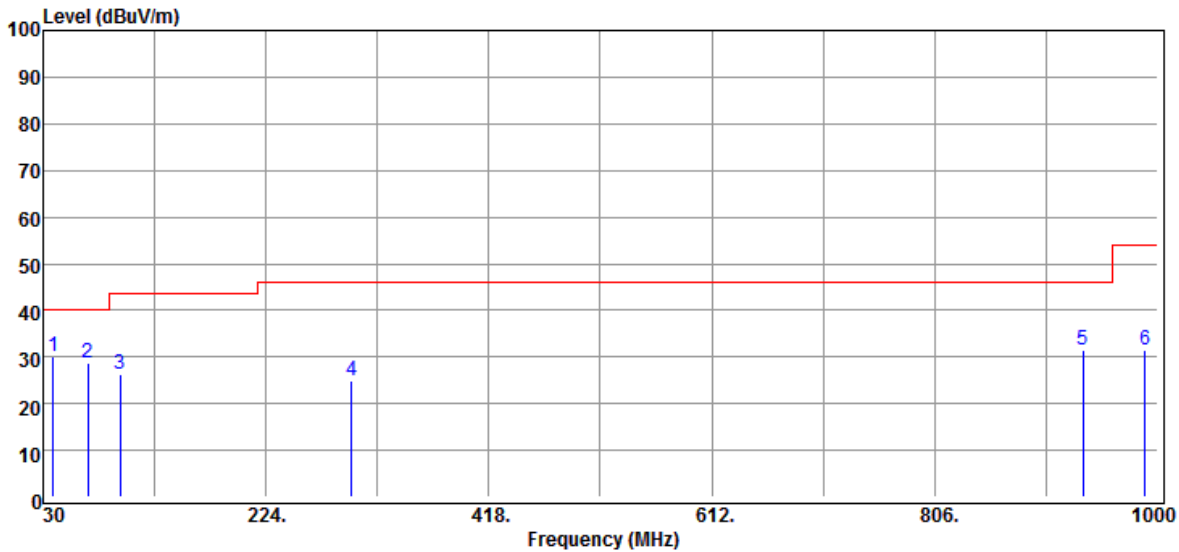


### 11.7 Measurement Result

#### Radiated Spurious Emission Measurement Result

##### Below 1GHz Worst-Case Data:

Operation Mode	:802.11a / Band 1	Test Date	:2018-07-22
Test Mode	:TX CH MID	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5220 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
38.73	Peak	38.25	-8.07	30.18	40.00	-9.82
68.80	Peak	46.65	-18.10	28.55	40.00	-11.45
96.93	Peak	41.56	-15.26	26.30	43.50	-17.20
298.69	Peak	34.79	-9.93	24.86	46.00	-21.14
935.01	Peak	29.60	1.79	31.39	46.00	-14.61
989.33	Peak	28.32	3.03	31.35	54.00	-22.65

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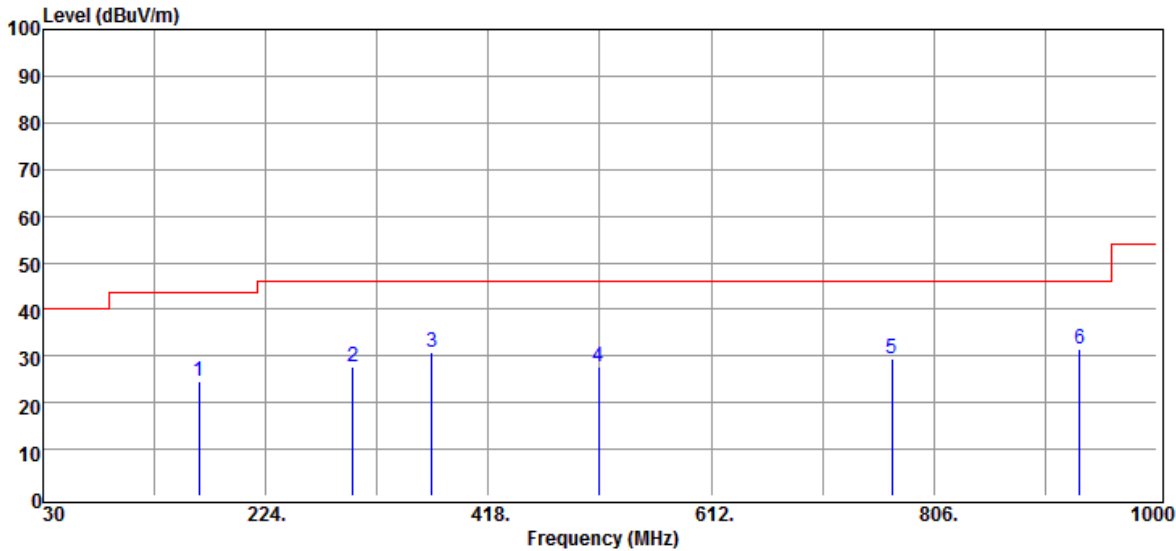
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Operation Mode :802.11a / Band 1  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5220 MHz

Test Date :2018-07-22  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
165.80	Peak	38.39	-13.67	24.72	43.50	-18.78
299.66	Peak	37.72	-9.90	27.82	46.00	-18.18
368.53	Peak	38.04	-7.24	30.80	46.00	-15.20
514.03	Peak	31.46	-3.90	27.56	46.00	-18.44
769.14	Peak	30.38	-0.96	29.42	46.00	-16.58
933.07	Peak	29.75	1.76	31.51	46.00	-14.49

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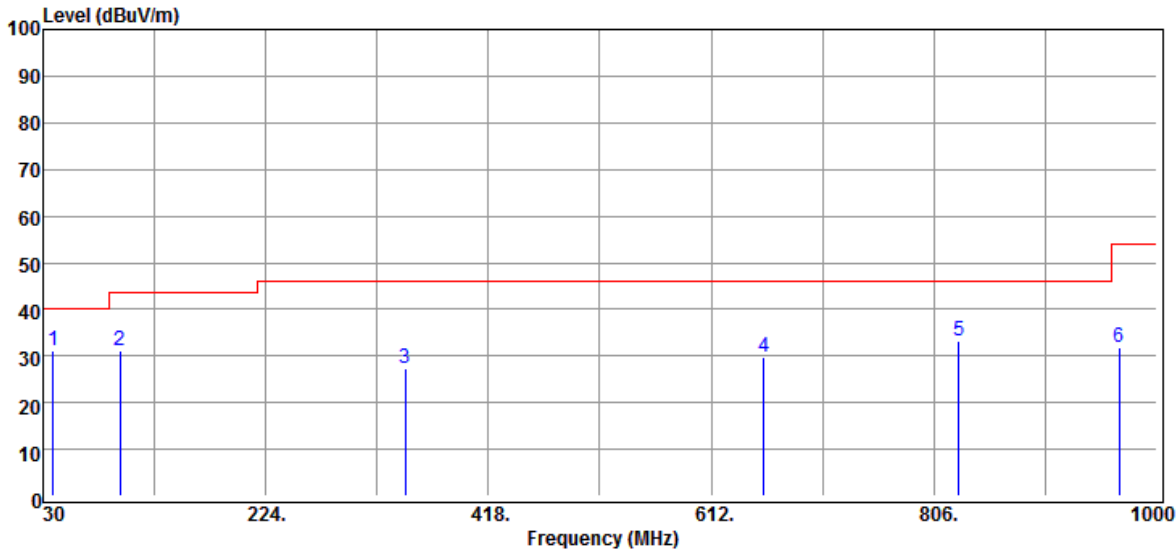
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Operation Mode :802.11a / Band 2  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5300 MHz

Test Date :2018-07-22  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
38.73	Peak	39.28	-8.07	31.21	40.00	-8.79
96.93	Peak	46.43	-15.26	31.17	43.50	-12.33
345.25	Peak	35.39	-8.13	27.26	46.00	-18.74
657.59	Peak	31.87	-2.23	29.64	46.00	-16.36
827.34	Peak	32.99	0.25	33.24	46.00	-12.76
967.02	Peak	29.48	2.49	31.97	54.00	-22.03

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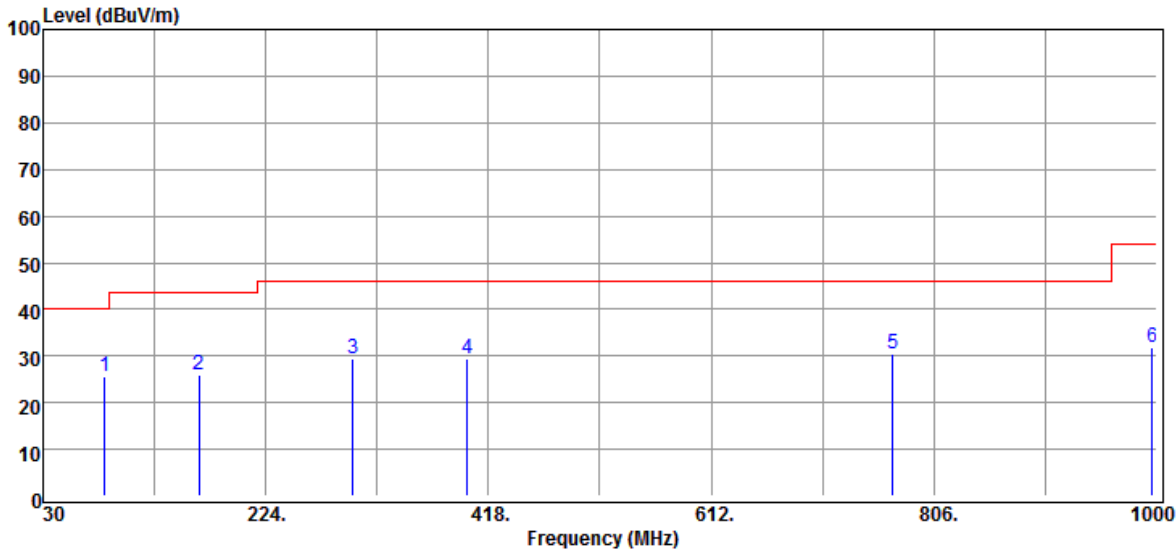
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Operation Mode :802.11a / Band 2  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5300 MHz

Test Date :2018-07-22  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
83.35	Peak	42.41	-16.70	25.71	40.00	-14.29
165.80	Peak	39.68	-13.67	26.01	43.50	-17.49
299.66	Peak	39.17	-9.90	29.27	46.00	-16.73
399.57	Peak	35.50	-6.03	29.47	46.00	-16.53
770.11	Peak	31.49	-0.95	30.54	46.00	-15.46
996.12	Peak	28.47	3.20	31.67	54.00	-22.33

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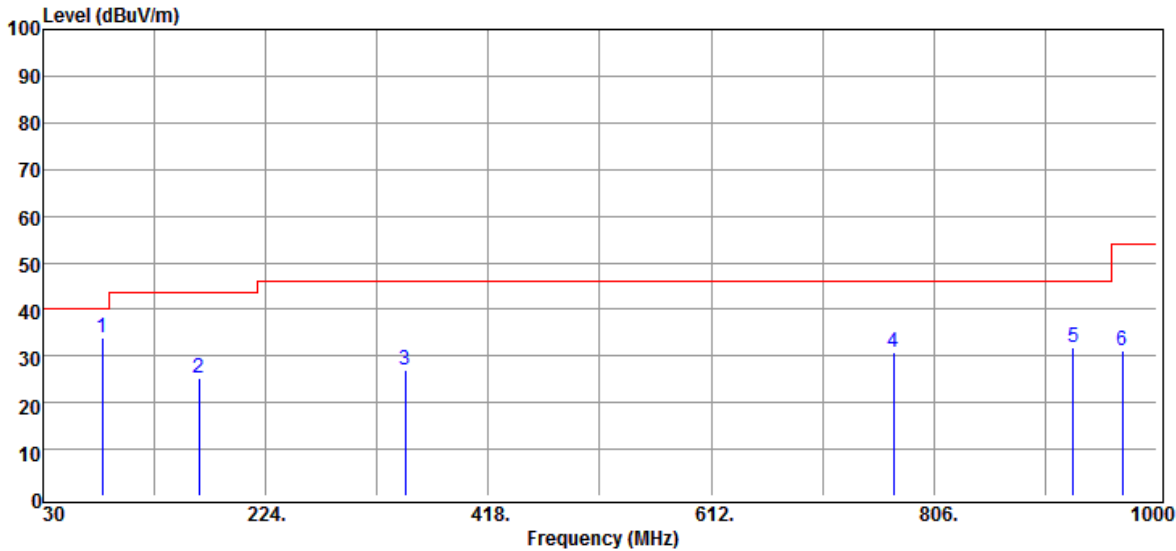
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Operation Mode :802.11a / Band 3  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5580 MHz

Test Date :2018-07-22  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
81.41	Peak	50.77	-16.79	33.98	40.00	-6.02
165.80	Peak	38.79	-13.67	25.12	43.50	-18.38
345.25	Peak	35.20	-8.13	27.07	46.00	-18.93
771.08	Peak	31.64	-0.93	30.71	46.00	-15.29
927.25	Peak	30.25	1.67	31.92	46.00	-14.08
969.93	Peak	28.44	2.55	30.99	54.00	-23.01

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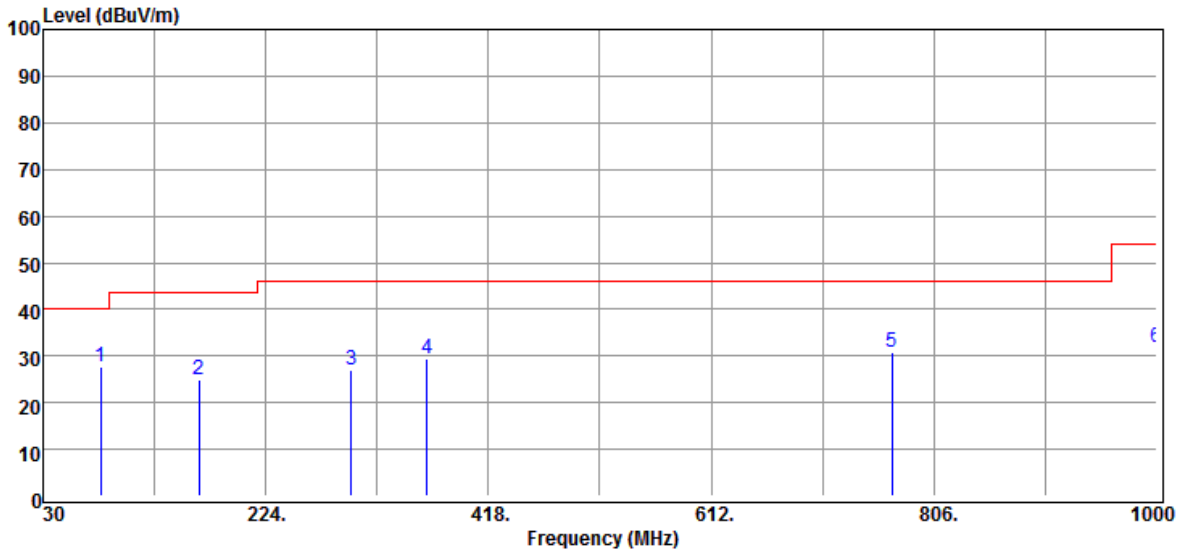
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Operation Mode :802.11a / Band 3  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5580 MHz

Test Date :2018-07-22  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
80.44	Peak	44.50	-16.84	27.66	40.00	-12.34
165.80	Peak	38.55	-13.67	24.88	43.50	-18.62
298.69	Peak	37.01	-9.93	27.08	46.00	-18.92
364.65	Peak	36.87	-7.41	29.46	46.00	-16.54
769.14	Peak	31.68	-0.96	30.72	46.00	-15.28
1000.00	Peak	28.41	3.30	31.71	54.00	-22.29

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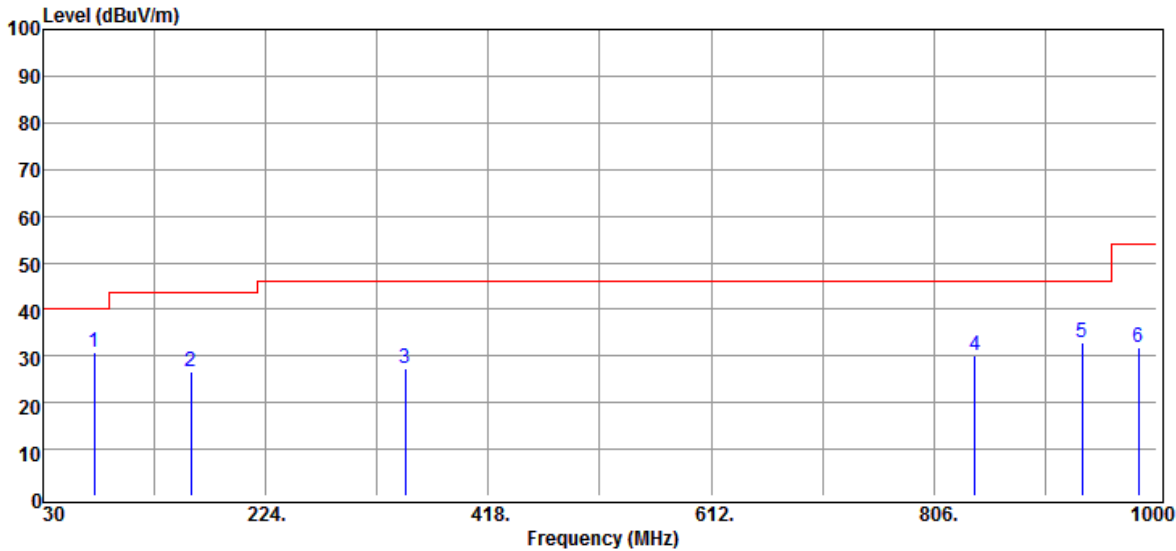
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Operation Mode :802.11a / Band 4  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5785 MHz

Test Date :2018-07-22  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
74.62	Peak	48.20	-17.41	30.79	40.00	-9.21
159.01	Peak	39.99	-13.18	26.81	43.50	-16.69
345.25	Peak	35.43	-8.13	27.30	46.00	-18.70
841.89	Peak	29.59	0.56	30.15	46.00	-15.85
935.01	Peak	31.17	1.79	32.96	46.00	-13.04
984.48	Peak	28.86	2.92	31.78	54.00	-22.22

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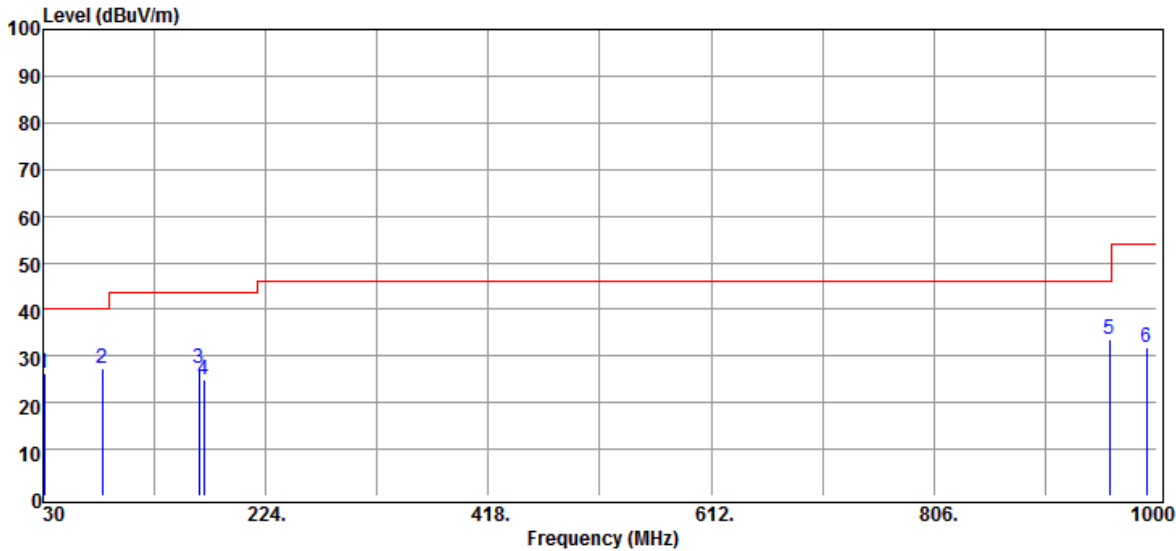
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Operation Mode :802.11a / Band 4  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5785 MHz

Test Date :2018-07-22  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
30.97	Peak	30.58	-4.16	26.42	40.00	-13.58
81.41	Peak	43.96	-16.79	27.17	40.00	-12.83
165.80	Peak	41.07	-13.67	27.40	43.50	-16.10
169.68	Peak	38.93	-13.95	24.98	43.50	-18.52
959.26	Peak	31.21	2.28	33.49	46.00	-12.51
991.27	Peak	28.63	3.09	31.72	54.00	-22.28

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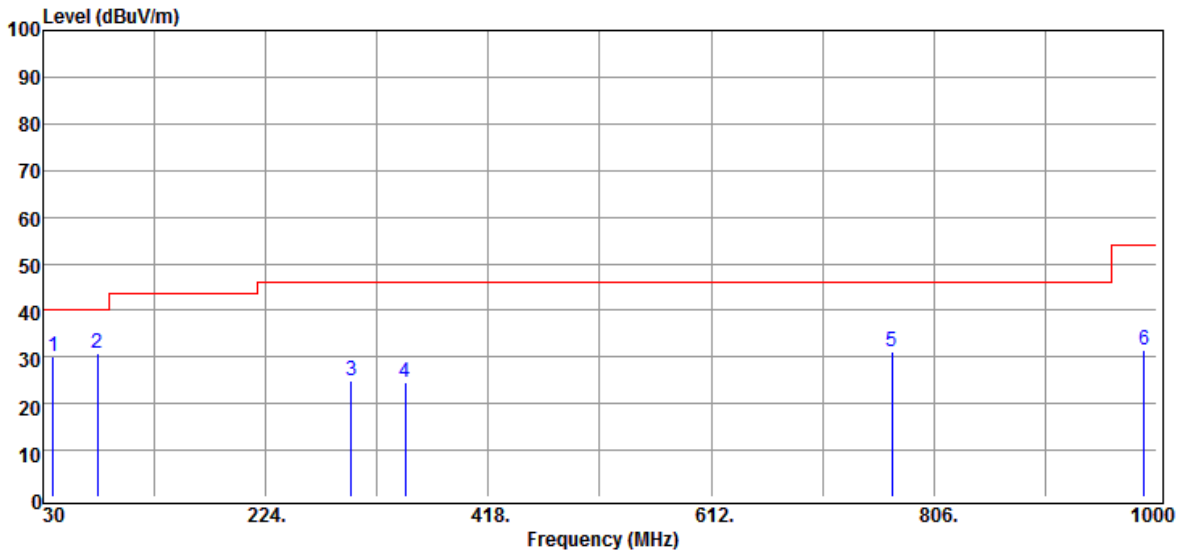
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Operation Mode :802.11ac80 / Band 1  
 Test Mode :TX CH LOW  
 EUT Pol :H Plan  
 Test Channel :5210 MHz

Test Date :2018-07-22  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
38.73	Peak	38.25	-8.07	30.18	40.00	-9.82
77.53	Peak	48.03	-17.11	30.92	40.00	-9.08
298.69	Peak	34.79	-9.93	24.86	46.00	-21.14
345.25	Peak	32.79	-8.13	24.66	46.00	-21.34
769.14	Peak	32.13	-0.96	31.17	46.00	-14.83
989.33	Peak	28.32	3.03	31.35	54.00	-22.65

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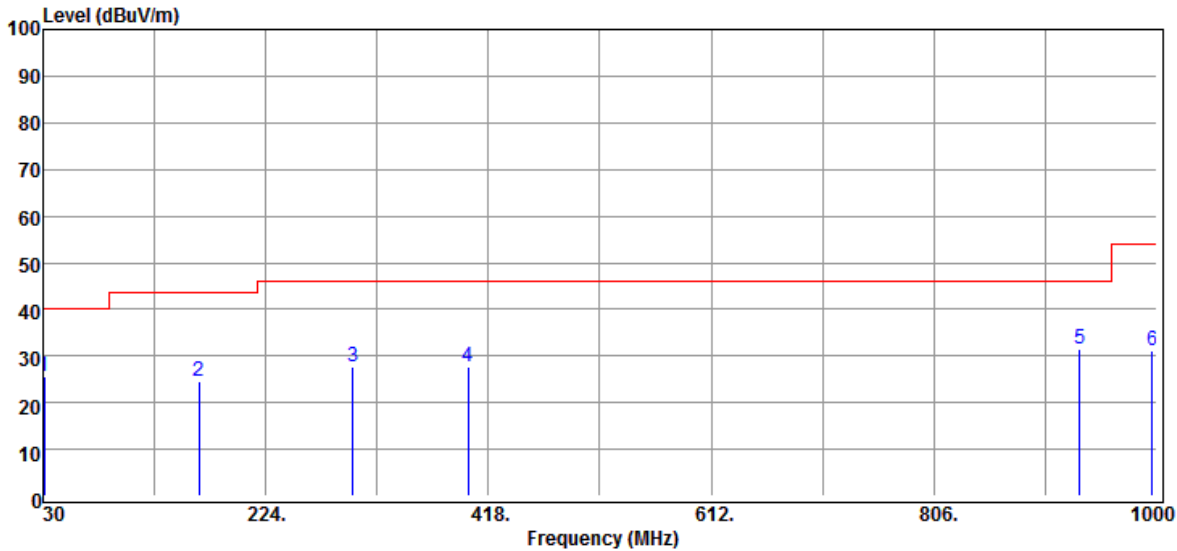
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Operation Mode :802.11ac80 / Band 1  
 Test Mode :TX CH LOW  
 EUT Pol :H Plan  
 Test Channel :5210 MHz

Test Date :2018-07-22  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
30.97	Peak	29.76	-4.16	25.60	40.00	-14.40
165.80	Peak	38.39	-13.67	24.72	43.50	-18.78
299.66	Peak	37.72	-9.90	27.82	46.00	-18.18
400.54	Peak	33.54	-6.01	27.53	46.00	-18.47
933.07	Peak	29.75	1.76	31.51	46.00	-14.49
996.12	Peak	28.00	3.20	31.20	54.00	-22.80

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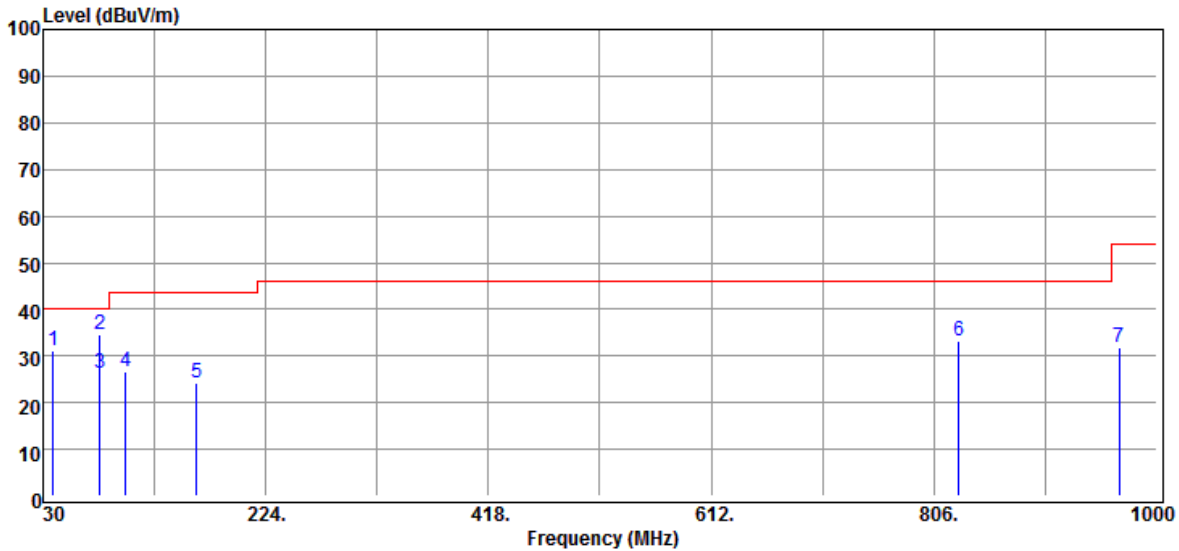
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Operation Mode	:802.11ac80 / Band 2	Test Date	:2018-07-22
Test Mode	:TX CH HIGH	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5290 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
38.73	Peak	39.28	-8.07	31.21	40.00	-8.79
79.47	Peak	51.56	-16.93	34.63	40.00	-5.37
79.47	QP	43.27	-16.93	26.34	40.00	-13.66
101.78	Peak	41.10	-14.49	26.61	43.50	-16.89
163.86	Peak	37.71	-13.52	24.19	43.50	-19.31
827.34	Peak	32.99	0.25	33.24	46.00	-12.76
967.02	Peak	29.48	2.49	31.97	54.00	-22.03

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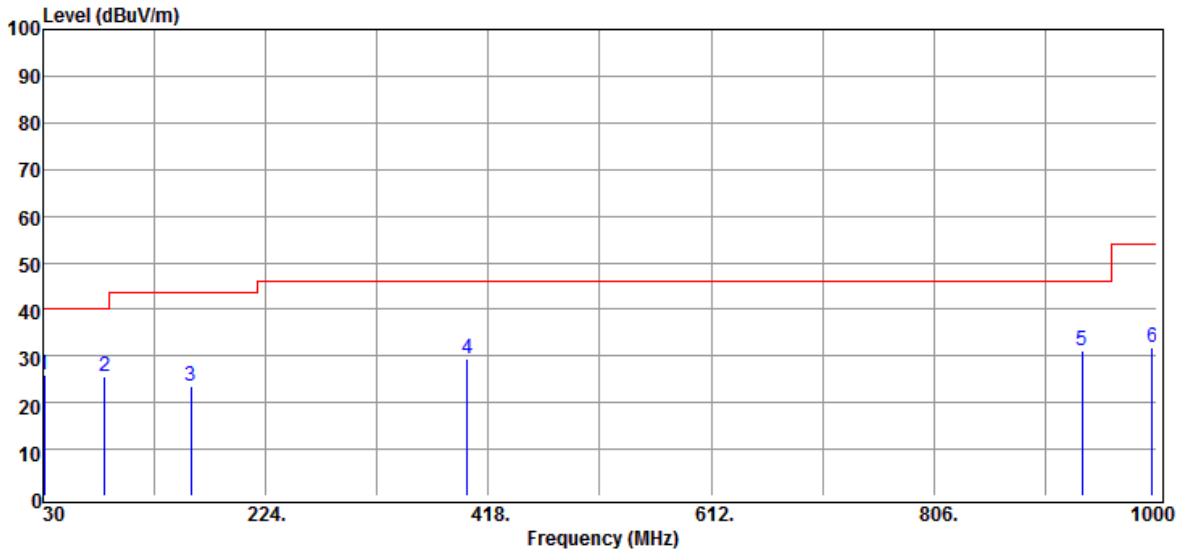
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Operation Mode :802.11ac80 / Band 2  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5290 MHz

Test Date :2018-07-22  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
30.97	Peak	30.19	-4.16	26.03	40.00	-13.97
83.35	Peak	42.41	-16.70	25.71	40.00	-14.29
159.01	Peak	36.64	-13.18	23.46	43.50	-20.04
399.57	Peak	35.50	-6.03	29.47	46.00	-16.53
935.01	Peak	29.23	1.79	31.02	46.00	-14.98
996.12	Peak	28.47	3.20	31.67	54.00	-22.33

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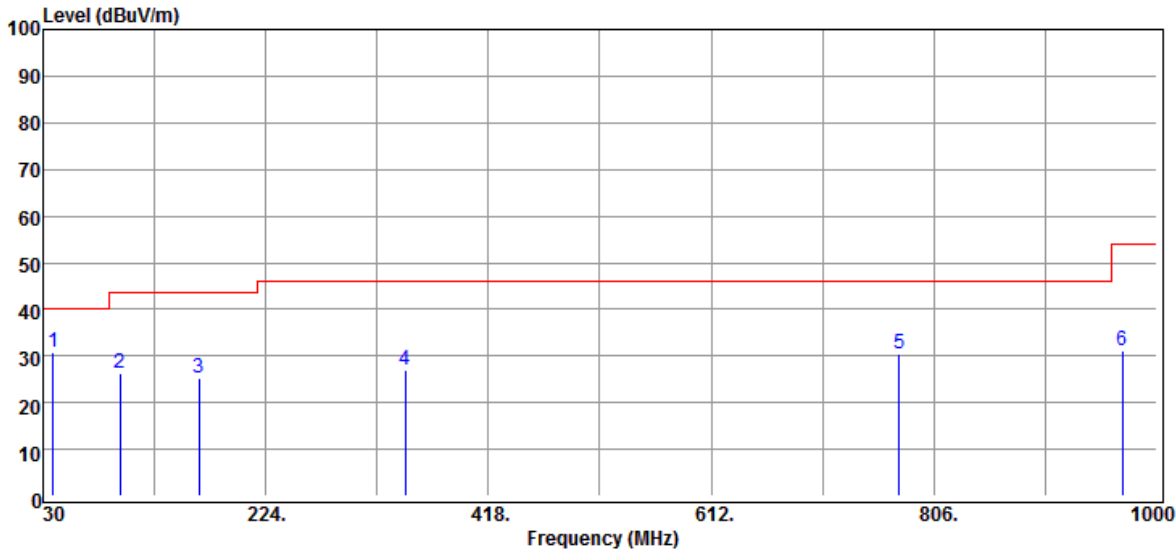
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Member of SGS Group

Operation Mode :802.11ac80 / Band 3  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5610 MHz

Test Date :2018-07-22  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
38.73	Peak	38.92	-8.07	30.85	40.00	-9.15
96.93	Peak	41.62	-15.26	26.36	43.50	-17.14
165.80	Peak	38.79	-13.67	25.12	43.50	-18.38
345.25	Peak	35.20	-8.13	27.07	46.00	-18.93
775.93	Peak	31.18	-0.82	30.36	46.00	-15.64
969.93	Peak	28.44	2.55	30.99	54.00	-23.01

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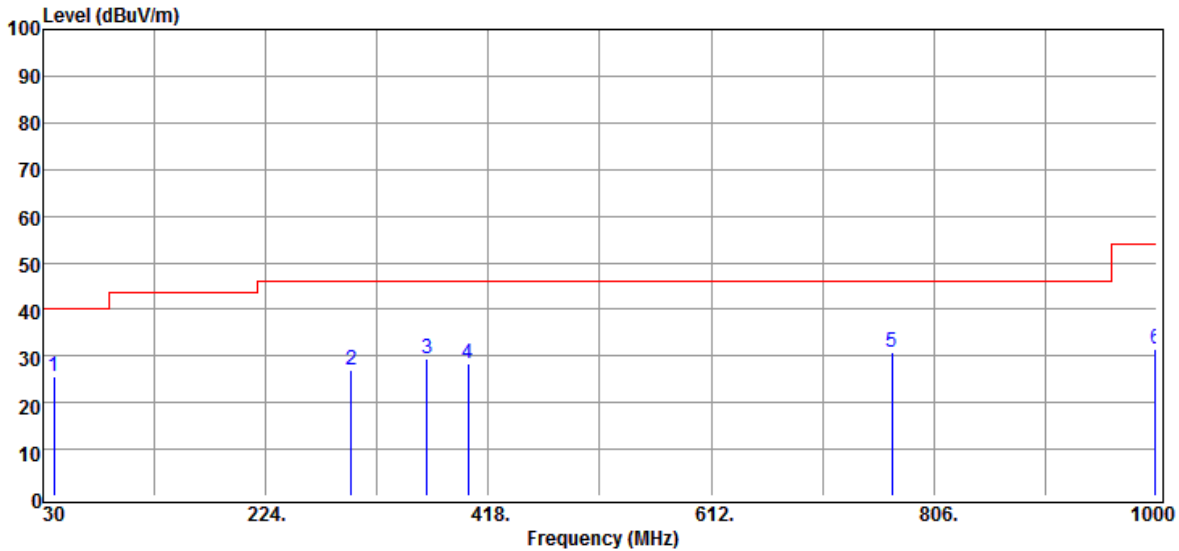
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Member of SGS Group

Operation Mode :802.11ac80 / Band 3  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5610 MHz

Test Date :2018-07-22  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
39.70	Peak	34.25	-8.50	25.75	40.00	-14.25
298.69	Peak	37.01	-9.93	27.08	46.00	-18.92
364.65	Peak	36.87	-7.41	29.46	46.00	-16.54
400.54	Peak	34.40	-6.01	28.39	46.00	-17.61
769.14	Peak	31.68	-0.96	30.72	46.00	-15.28
999.03	Peak	28.15	3.28	31.43	54.00	-22.57

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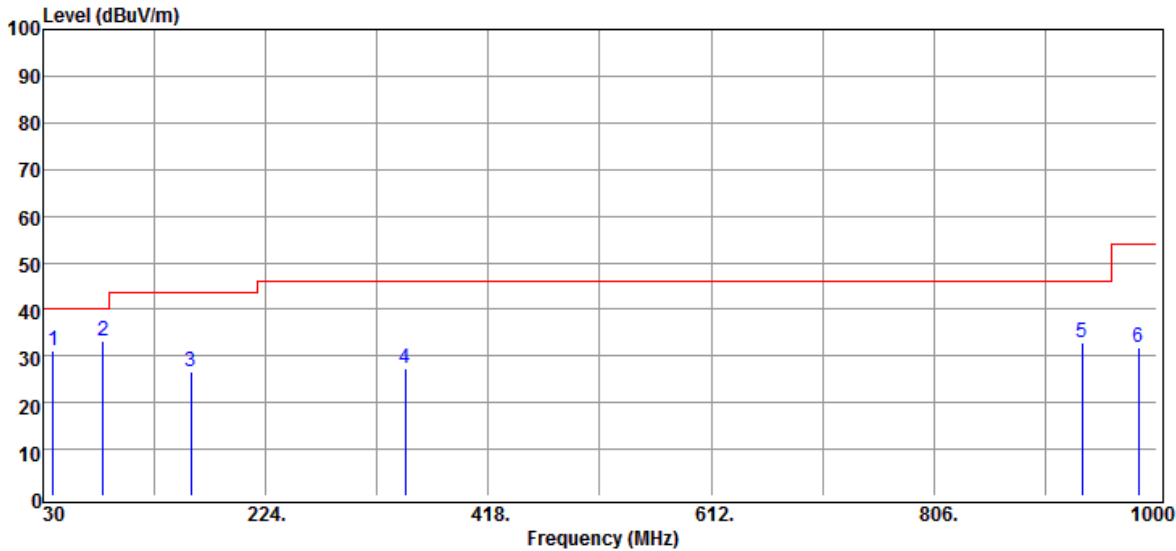
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Operation Mode :802.11ac80 / Band 4  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5775 MHz

Test Date :2018-07-22  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
38.73	Peak	39.23	-8.07	31.16	40.00	-8.84
82.38	Peak	50.13	-16.74	33.39	40.00	-6.61
159.01	Peak	39.99	-13.18	26.81	43.50	-16.69
345.25	Peak	35.43	-8.13	27.30	46.00	-18.70
935.01	Peak	31.17	1.79	32.96	46.00	-13.04
984.48	Peak	28.86	2.92	31.78	54.00	-22.22

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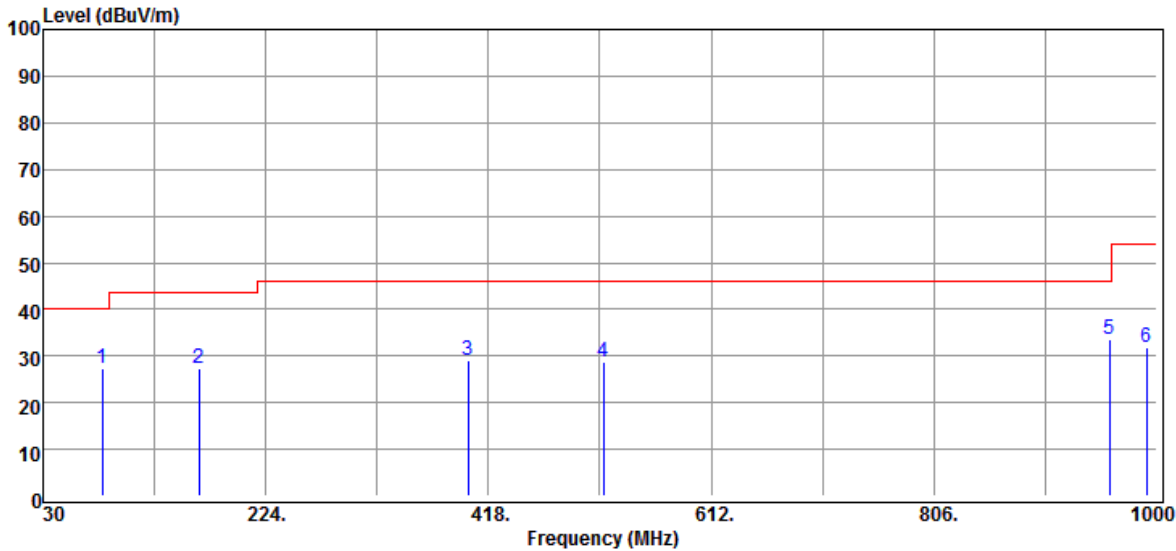
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Operation Mode :802.11ac80 / Band 4  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5775 MHz

Test Date :2018-07-22  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
81.41	Peak	43.96	-16.79	27.17	40.00	-12.83
165.80	Peak	41.07	-13.67	27.40	43.50	-16.10
400.54	Peak	35.09	-6.01	29.08	46.00	-16.92
517.91	Peak	32.43	-3.82	28.61	46.00	-17.39
959.26	Peak	31.21	2.28	33.49	46.00	-12.51
991.27	Peak	28.63	3.09	31.72	54.00	-22.28

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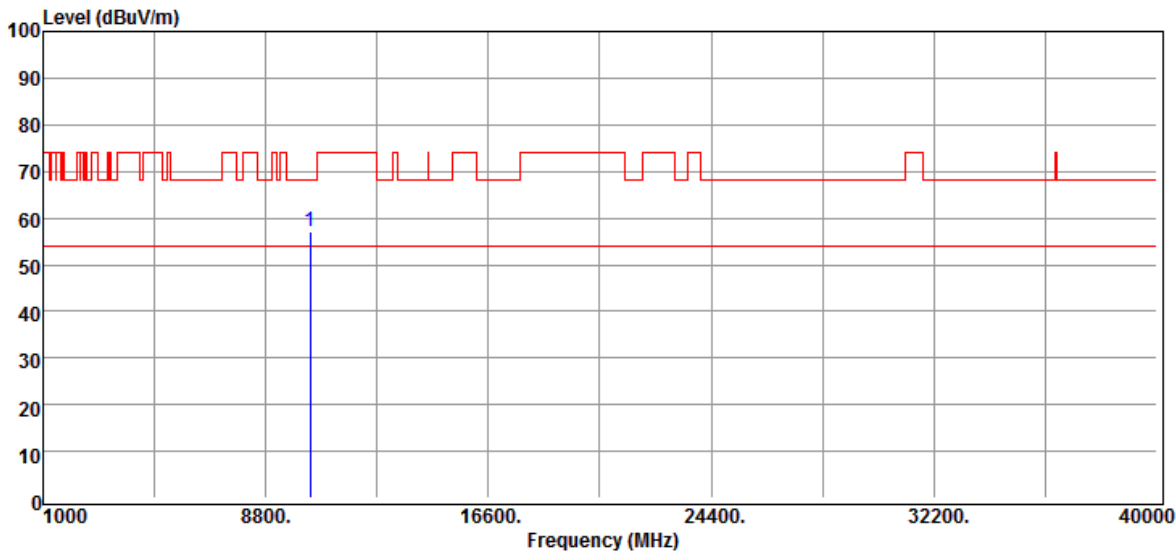
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**Above 1GHz Worst-Case Data:**

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

Operation Mode	:802.11a / Band 1	Test Date	:2018-07-20
Test Mode	:TX CH LOW	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.00	Peak	30.40	26.61	57.01	68.20	-11.19

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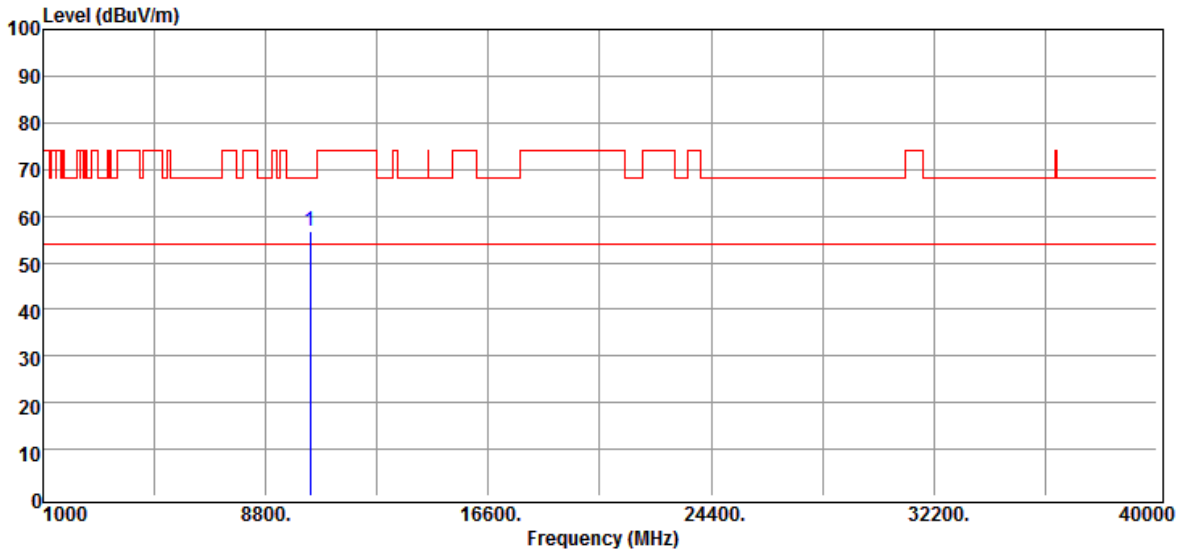
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Operation Mode :802.11a / Band 1  
 Test Mode :TX CH LOW  
 EUT Pol :H Plan  
 Test Channel :5180 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.00	Peak	30.29	26.61	56.90	68.20	-11.30

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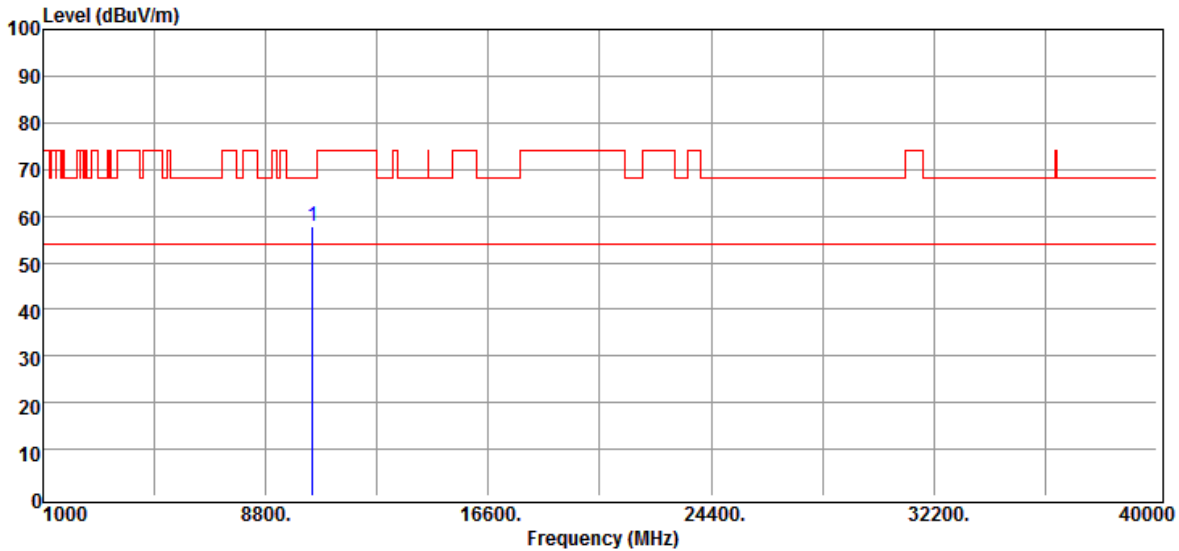
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Operation Mode	:802.11a / Band 1	Test Date	:2018-07-20
Test Mode	:TX CH MID	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5220 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10440.00	Peak	30.72	26.98	57.70	68.20	-10.50

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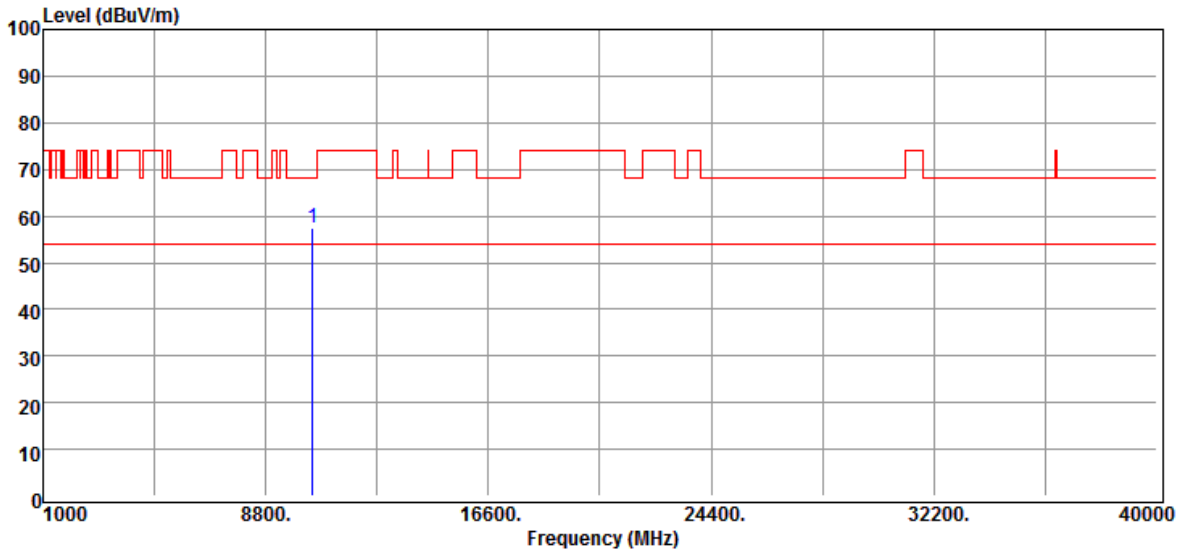
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Operation Mode :802.11a / Band 1  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5220 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	30.57	26.98	57.55	68.20	-10.65

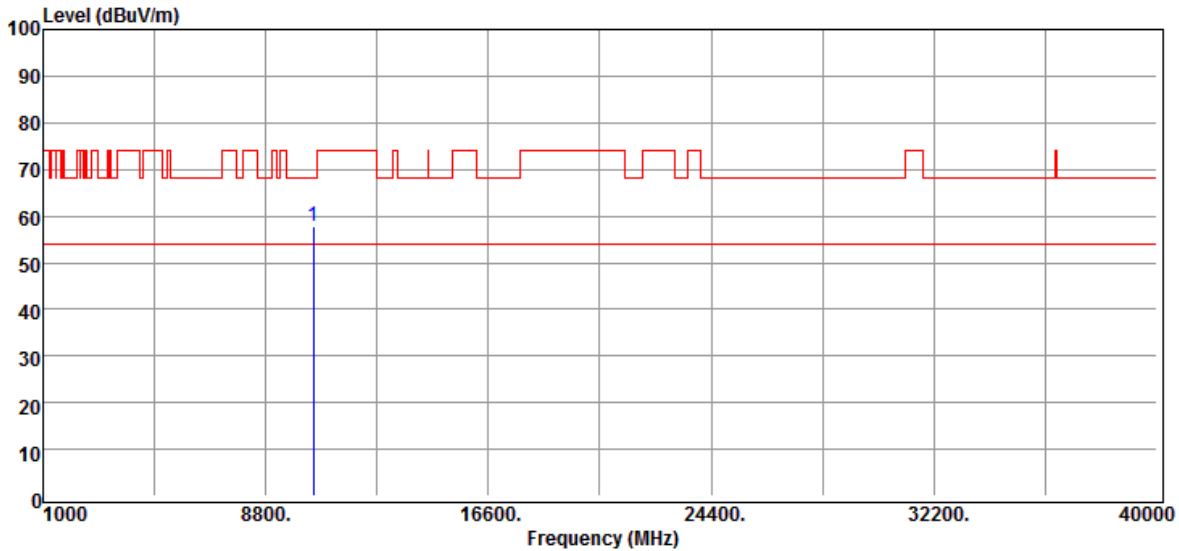
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Operation Mode	:802.11a / Band 1	Test Date	:2018-07-20
Test Mode	:TX CH HIGH	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5240 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10480.00	Peak	30.56	27.16	57.72	68.20	-10.48

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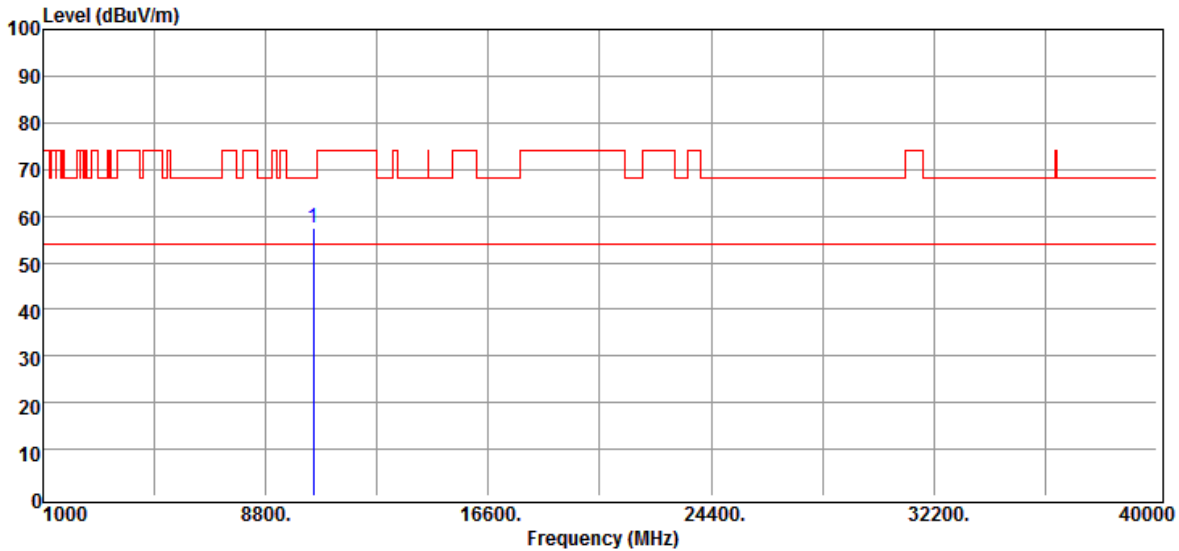
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Operation Mode :802.11a / Band 1  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5240 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	30.32	27.16	57.48	68.20	-10.72

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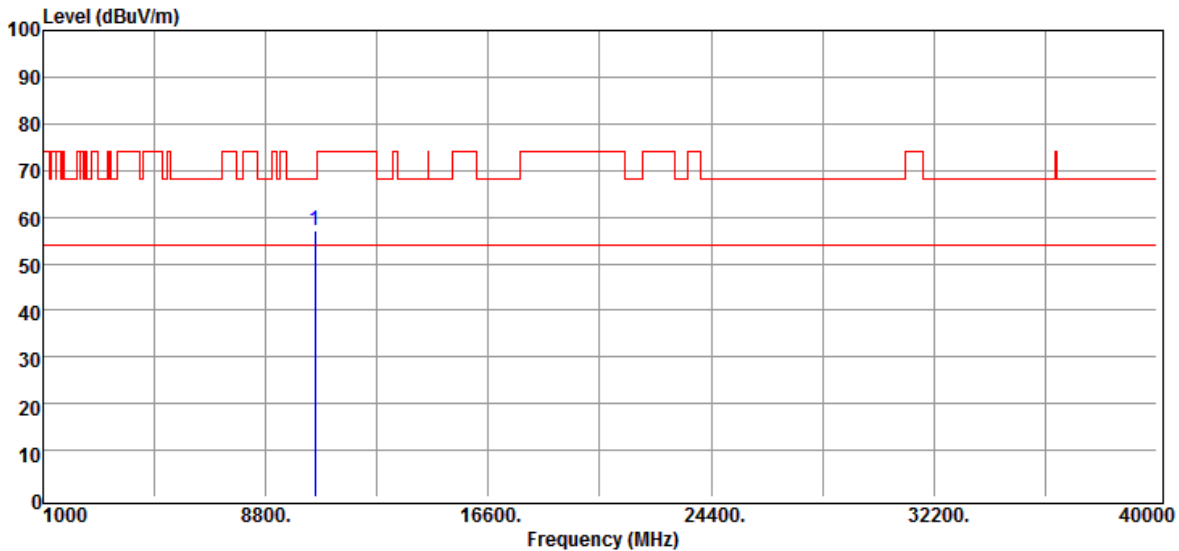
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### Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode	:802.11a / Band 2	Test Date	:2018-07-20
Test Mode	:TX CH LOW	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5260 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	30.01	27.23	57.24	68.20	-10.96

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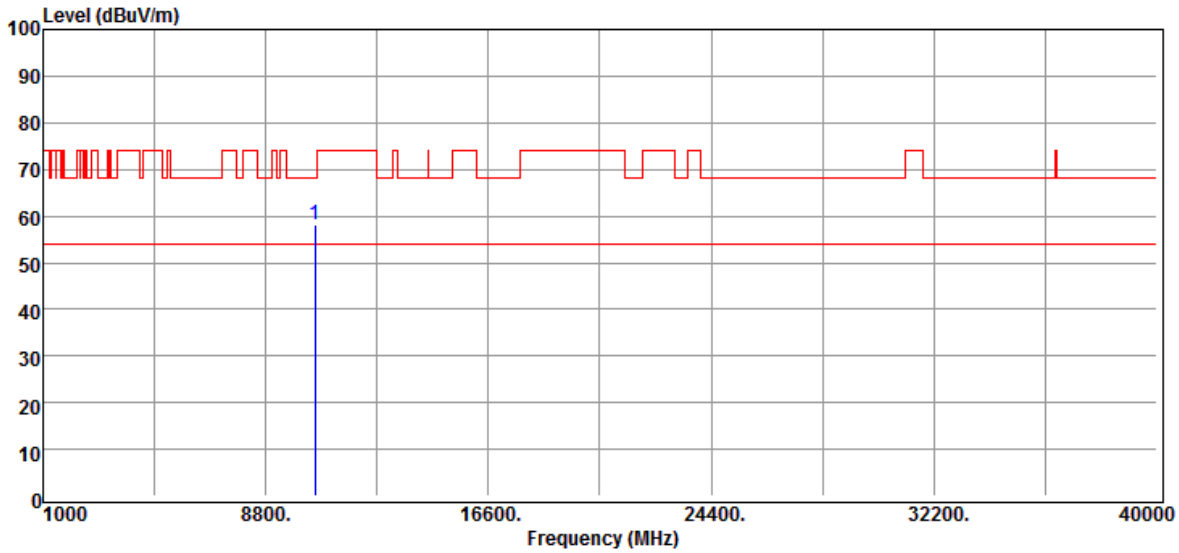
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Operation Mode :802.11a / Band 2  
 Test Mode :TX CH LOW  
 EUT Pol :H Plan  
 Test Channel :5260 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10520.00	Peak	31.06	27.23	58.29	68.20	-9.91

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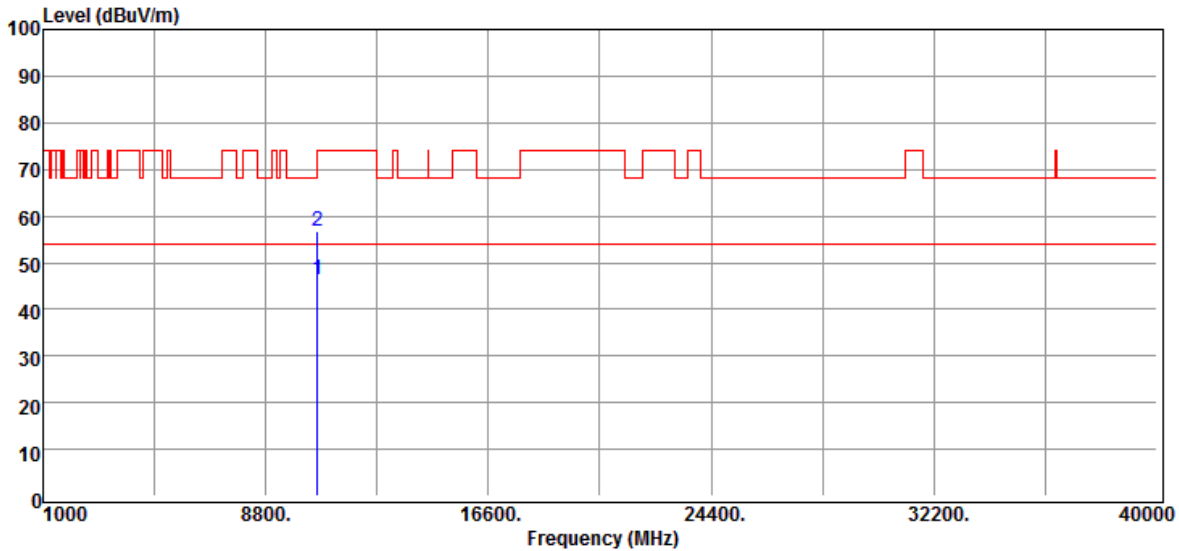
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Operation Mode :802.11a / Band 2  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5300 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



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	19.08	27.21	46.29	54.00	-7.71
10600.00	Peak	29.68	27.21	56.89	68.20	-11.31

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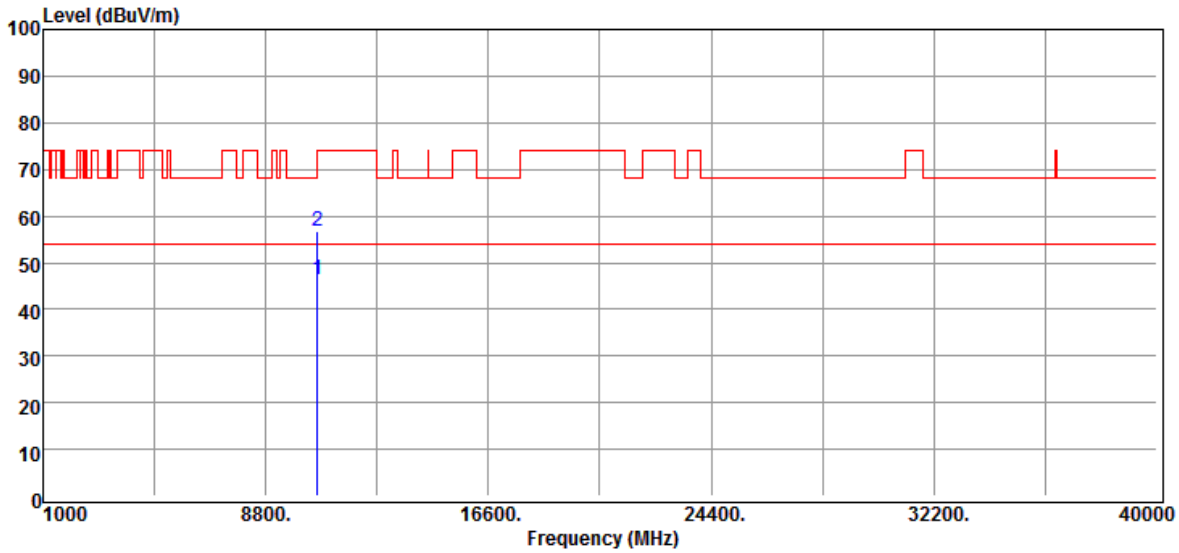
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Operation Mode :802.11a / Band 2  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5300 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	19.02	27.21	46.23	54.00	-7.77
10600.00	Peak	29.61	27.21	56.82	68.20	-11.38

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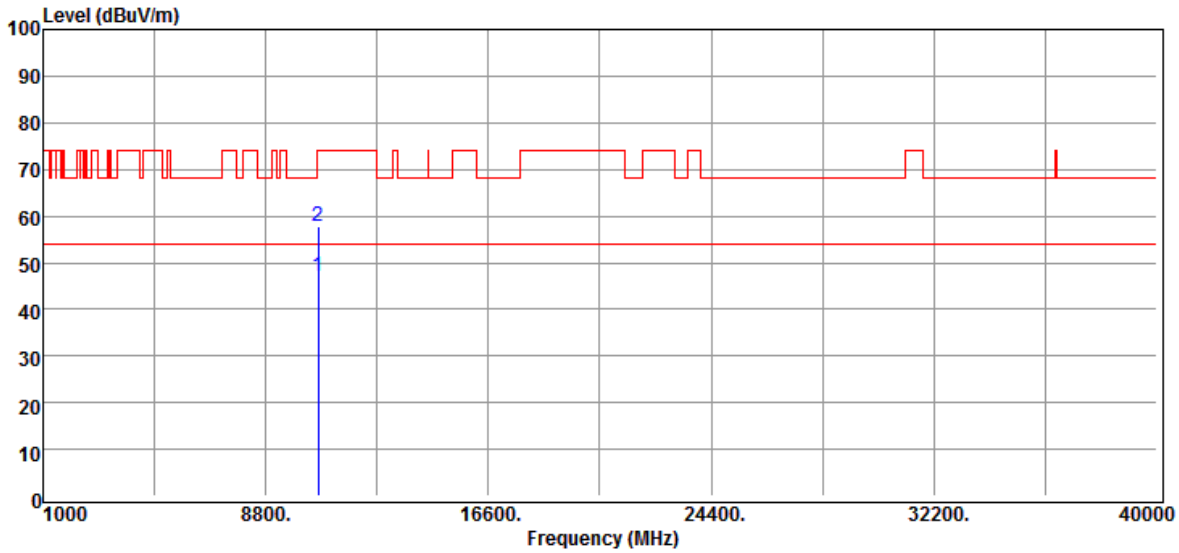
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Operation Mode :802.11a / Band 2  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5320 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



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	19.81	27.20	47.01	54.00	-6.99
10640.00	Peak	30.54	27.20	57.74	74.00	-16.26

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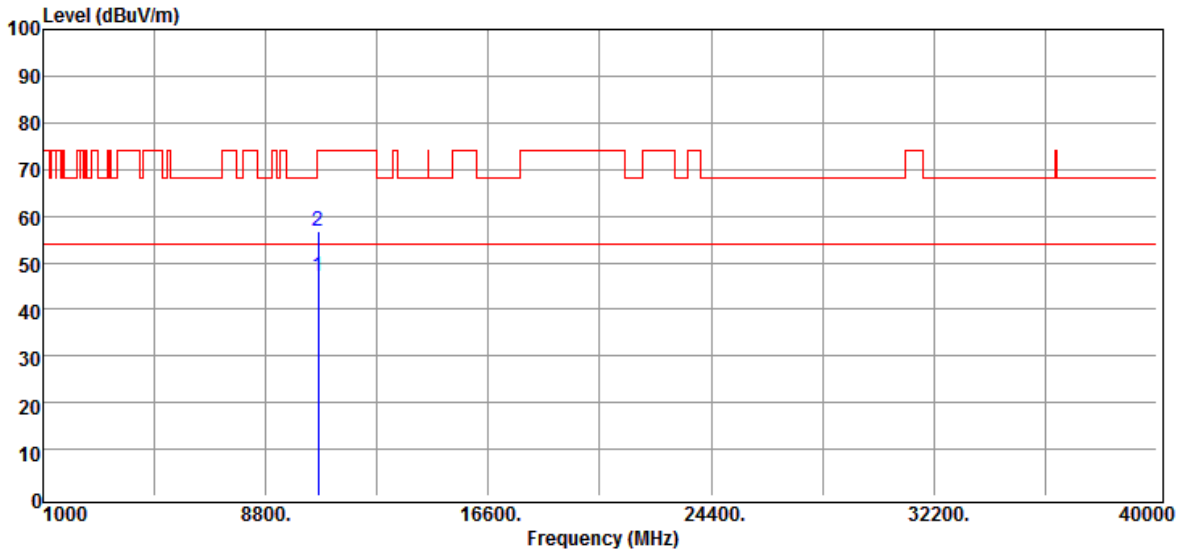
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Operation Mode :802.11a / Band 2  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5320 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	19.85	27.20	47.05	54.00	-6.95
10640.00	Peak	29.51	27.20	56.71	74.00	-17.29

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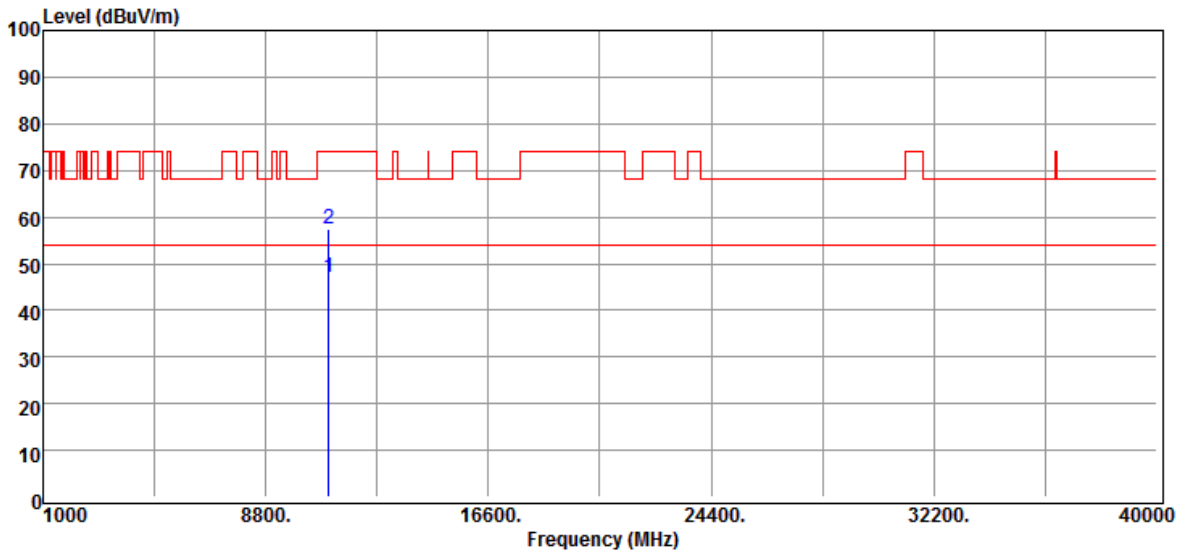
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### Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode	:802.11a / Band 3	Test Date	:2018-07-20
Test Mode	:TX CH LOW	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Enzo



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	19.82	27.09	46.91	54.00	-7.09
11000.00	Peak	30.32	27.09	57.41	74.00	-16.59

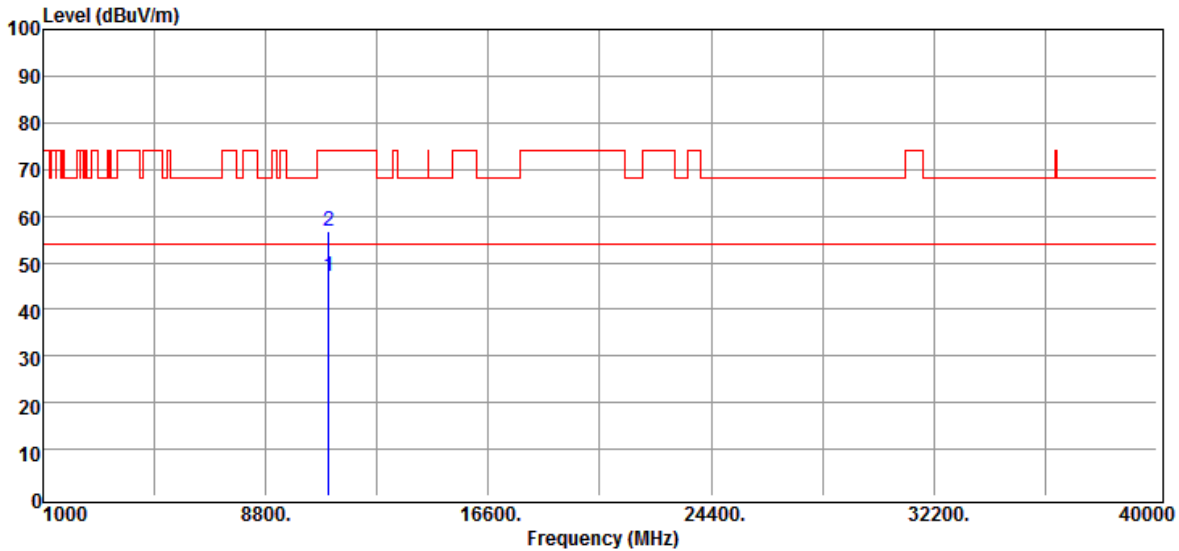
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Operation Mode	:802.11a / Band 3	Test Date	:2018-07-20
Test Mode	:TX CH LOW	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11000.00	Average	19.92	27.09	47.01	54.00	-6.99
11000.00	Peak	29.81	27.09	56.90	74.00	-17.10

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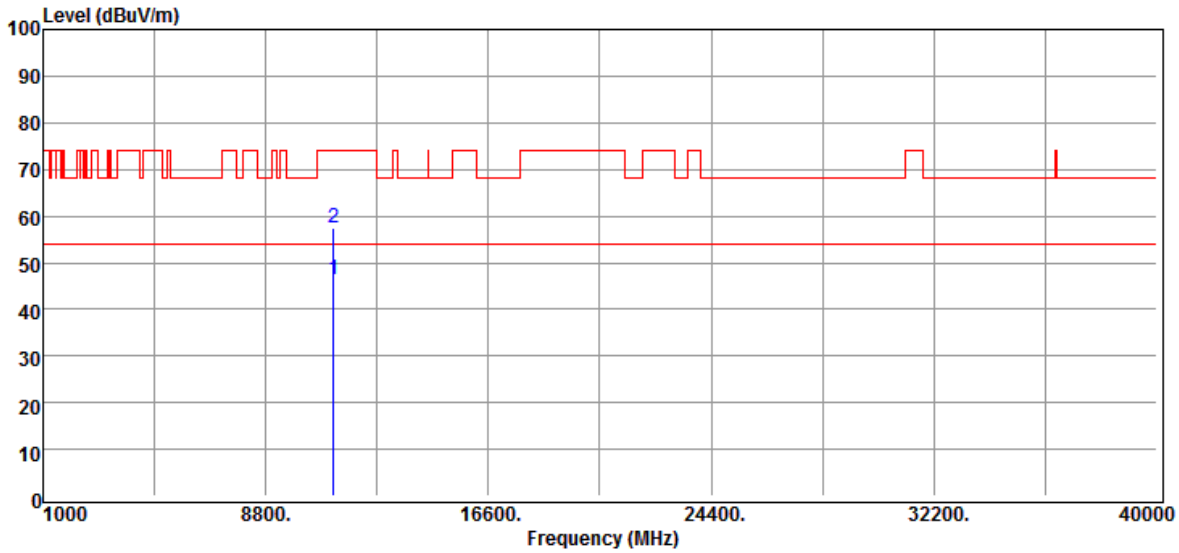
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Operation Mode	:802.11a / Band 3	Test Date	:2018-07-20
Test Mode	:TX CH MID	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5580 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11160.00	Average	19.81	26.67	46.48	54.00	-7.52
11160.00	Peak	30.63	26.67	57.30	74.00	-16.70

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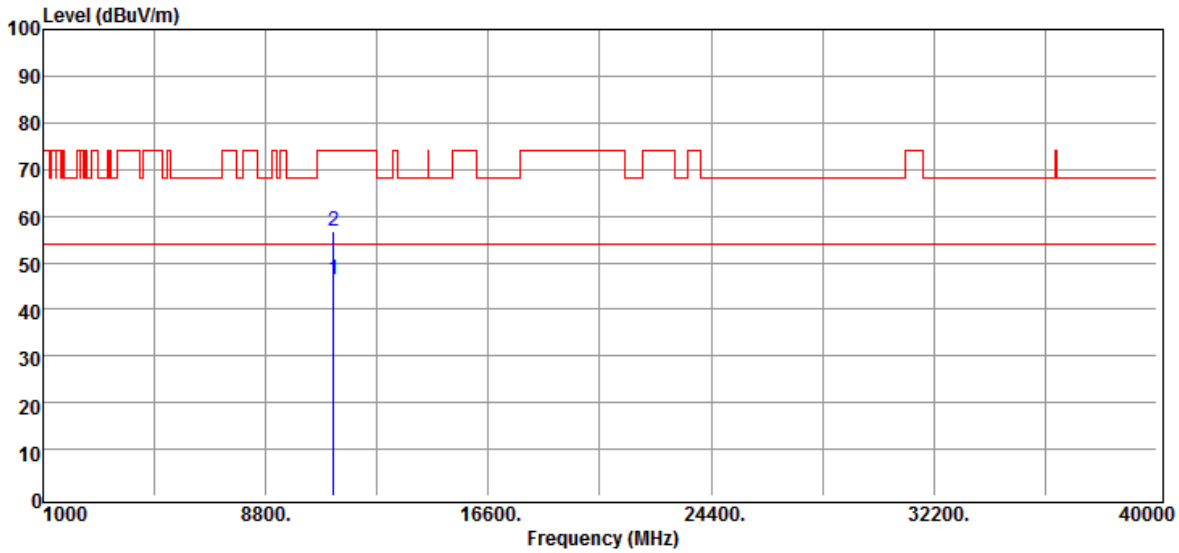
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Operation Mode	:802.11a / Band 3	Test Date	:2018-07-20
Test Mode	:TX CH MID	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5580 MHz	Engineer	:Enzo



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	19.77	26.67	46.44	54.00	-7.56
11160.00	Peak	29.99	26.67	56.66	74.00	-17.34

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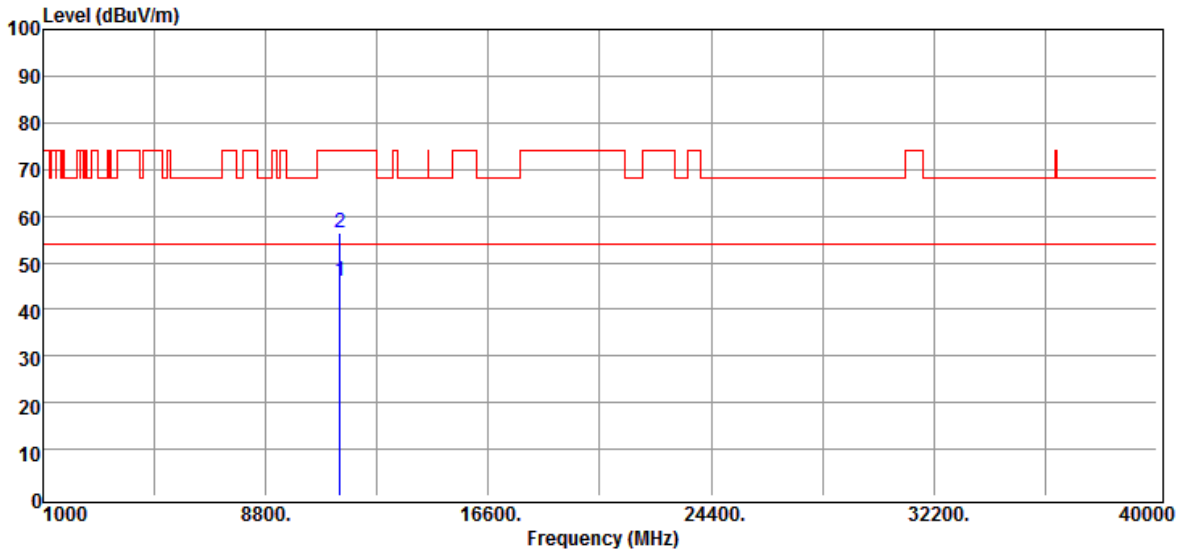
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Operation Mode :802.11a / Band 3  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5700 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



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	19.87	26.07	45.94	54.00	-8.06
11400.00	Peak	30.35	26.07	56.42	74.00	-17.58

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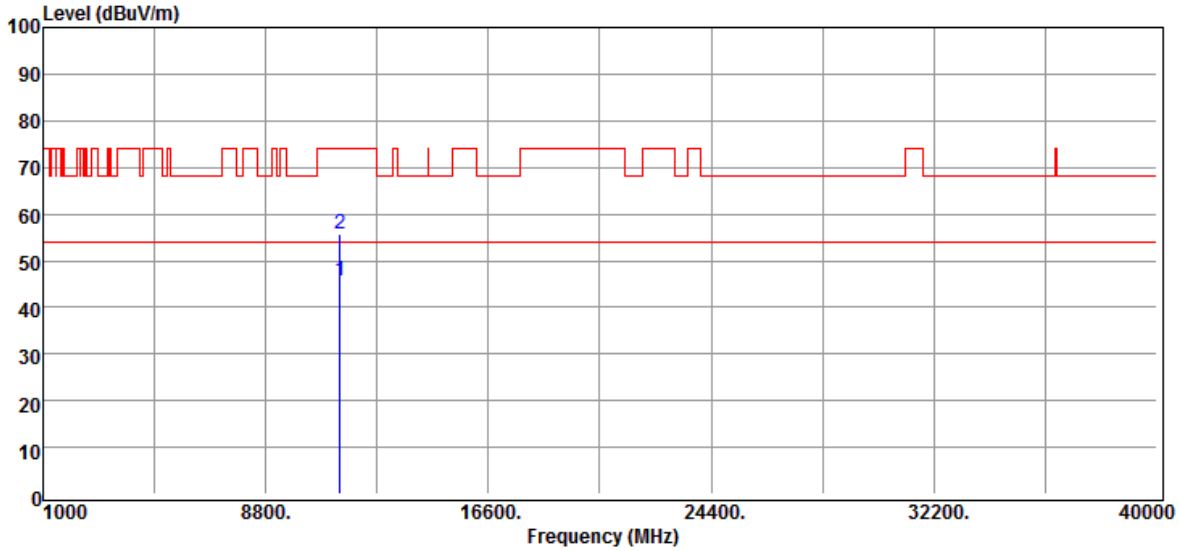
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Operation Mode :802.11a / Band 3  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5700 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11400.00	Average	19.77	26.07	45.84	54.00	-8.16
11400.00	Peak	29.67	26.07	55.74	74.00	-18.26

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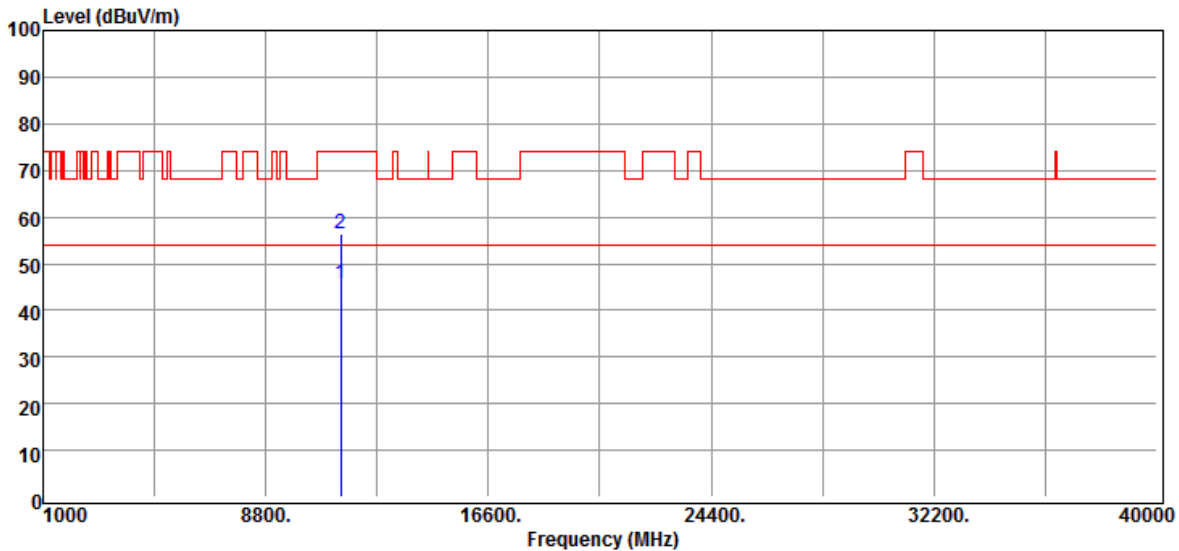
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### Radiated Spurious Emission Measurement Result 802.11a, 5720 MHz

Operation Mode	:802.11a / Band 3/4	Test Date	:2018-07-20
Test Mode	:TX CH 144	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5720 MHz	Engineer	:Enzo



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	19.85	25.96	45.81	54.00	-8.19
11440.00	Peak	30.50	25.96	56.46	74.00	-17.54

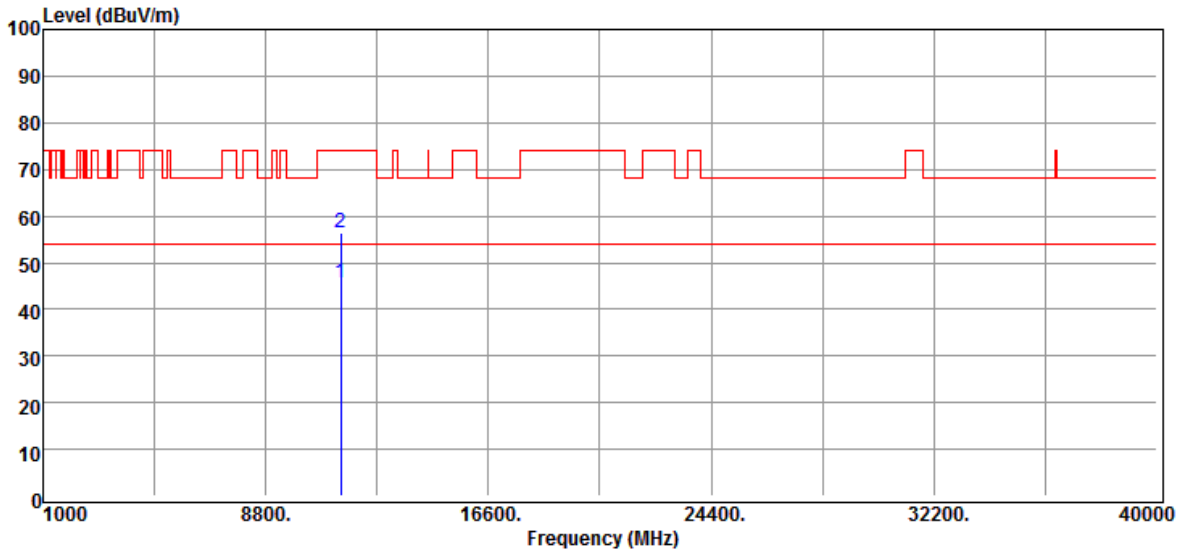
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Operation Mode	:802.11a / Band 3/4	Test Date	:2018-07-20
Test Mode	:TX CH 144	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5720 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11440.00	Average	19.71	25.96	45.67	54.00	-8.33
11440.00	Peak	30.28	25.96	56.24	74.00	-17.76

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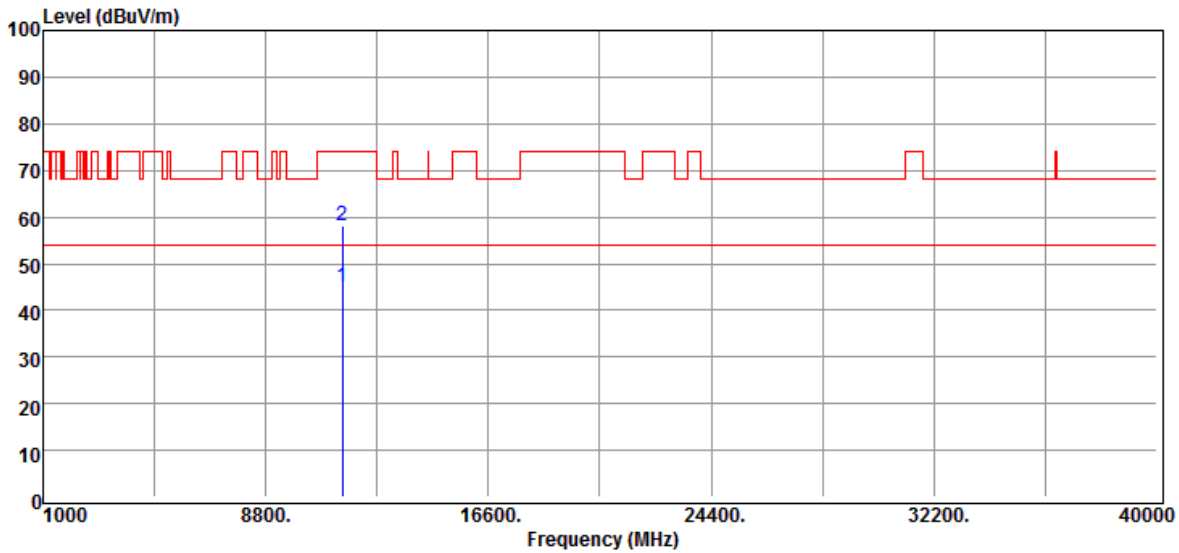
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### Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode	:802.11a / Band 4	Test Date	:2018-07-20
Test Mode	:TX CH LOW	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Enzo



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	19.12	25.83	44.95	54.00	-9.05
11490.00	Peak	32.33	25.83	58.16	74.00	-15.84

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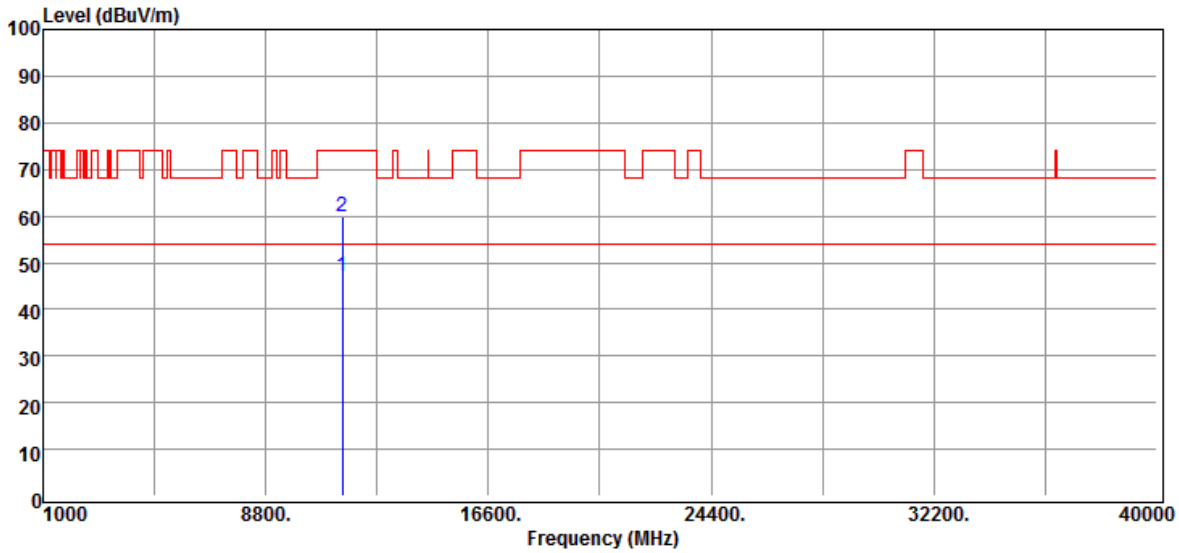
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Operation Mode :802.11a / Band 4  
 Test Mode :TX CH LOW  
 EUT Pol :H Plan  
 Test Channel :5745 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	21.13	25.83	46.96	54.00	-7.04
11490.00	Peak	33.86	25.83	59.69	74.00	-14.31

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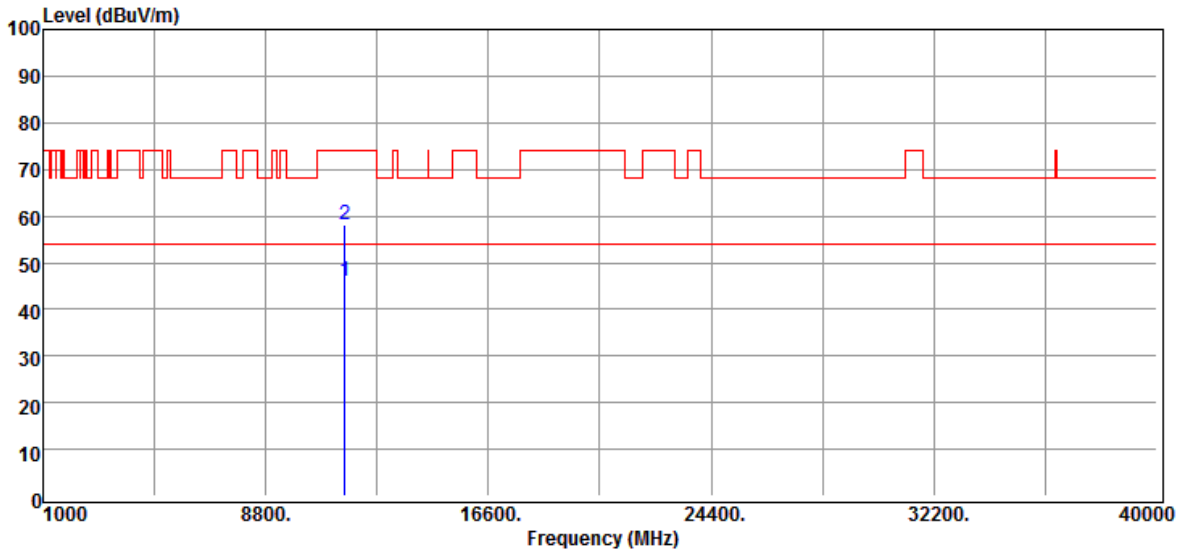
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Operation Mode :802.11a / Band 4  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5785 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



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	20.25	25.87	46.12	54.00	-7.88
11570.00	Peak	32.24	25.87	58.11	74.00	-15.89

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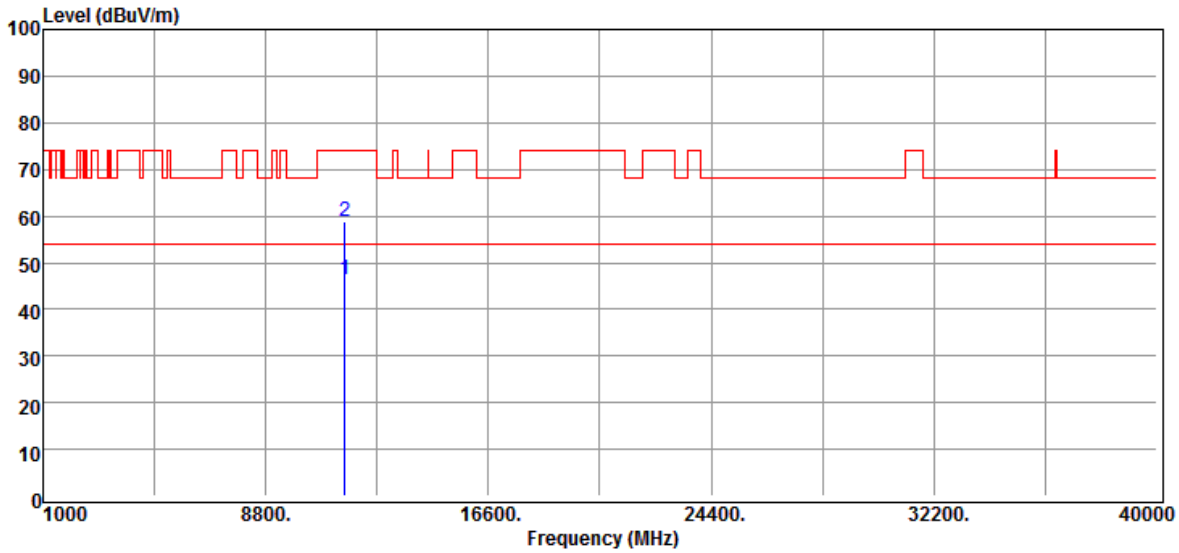
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Operation Mode :802.11a / Band 4  
Test Mode :TX CH MID  
EUT Pol :H Plan  
Test Channel :5785 MHz

Test Date :2018-07-20  
Temp./Humi. :26/56  
Antenna Pol. :HORIZONTAL  
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11570.00	Average	20.58	25.87	46.45	54.00	-7.55
11570.00	Peak	33.07	25.87	58.94	74.00	-15.06

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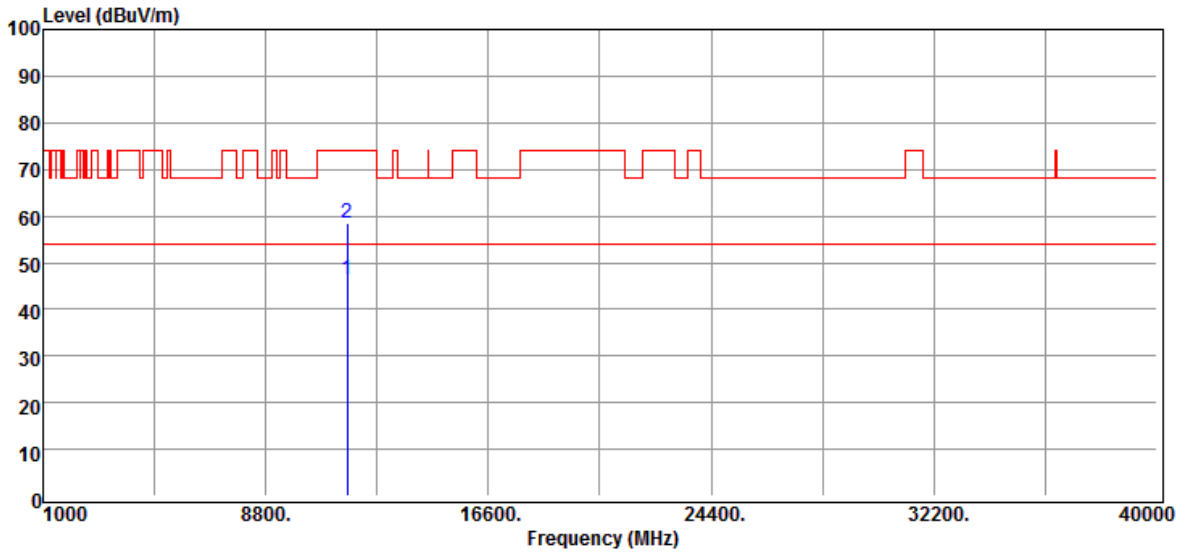
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Operation Mode :802.11a / Band 4  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5825 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



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	20.40	25.94	46.34	54.00	-7.66
11650.00	Peak	32.69	25.94	58.63	74.00	-15.37

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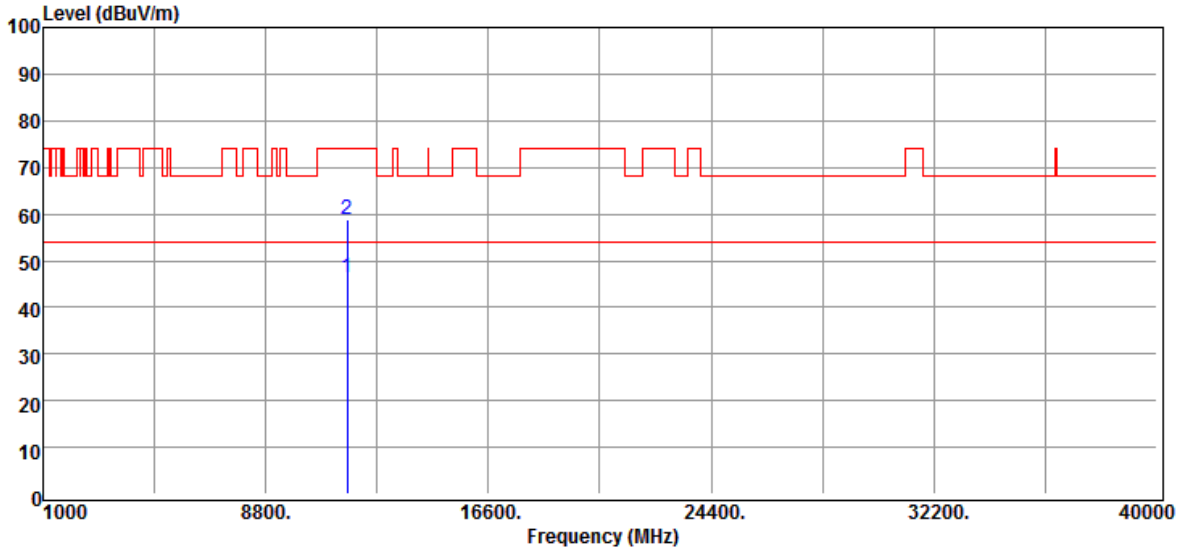
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Operation Mode :802.11a / Band 4  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5825 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11650.00	Average	20.28	25.94	46.22	54.00	-7.78
11650.00	Peak	32.78	25.94	58.72	74.00	-15.28

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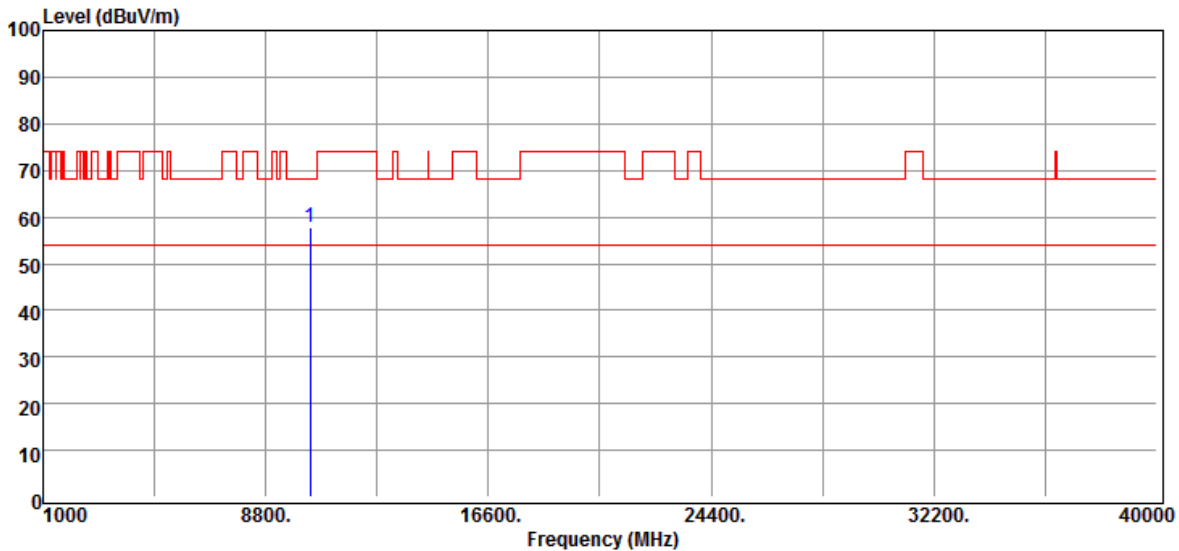
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode	:802.11n20 / Band 1	Test Date	:2018-07-20
Test Mode	:TX CH LOW	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	31.16	26.61	57.77	68.20	-10.43

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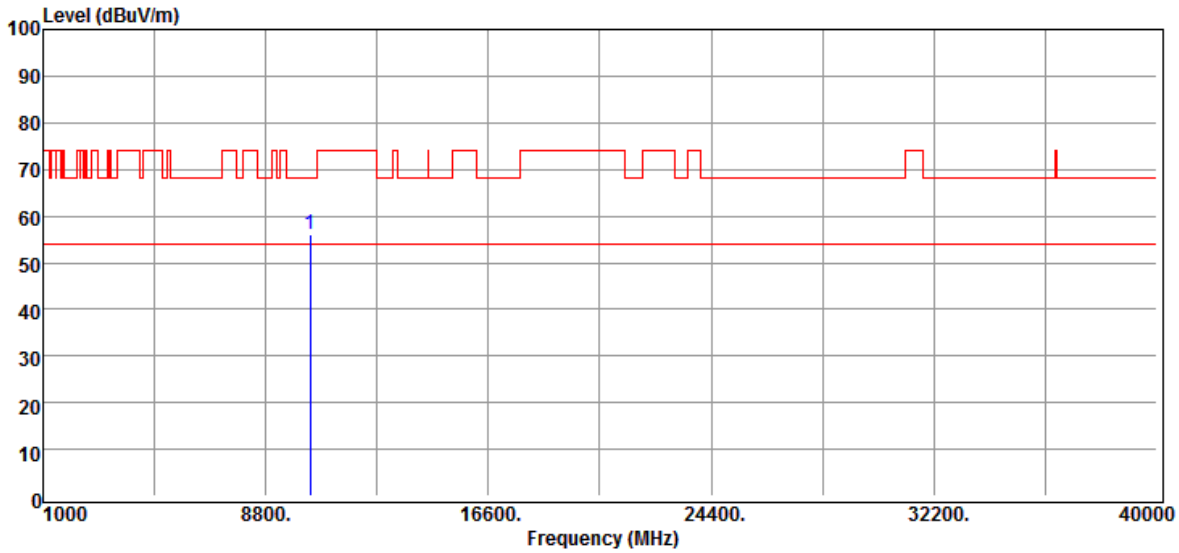
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Operation Mode :802.11n20 / Band 1  
 Test Mode :TX CH LOW  
 EUT Pol :H Plan  
 Test Channel :5180 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	29.53	26.61	56.14	68.20	-12.06

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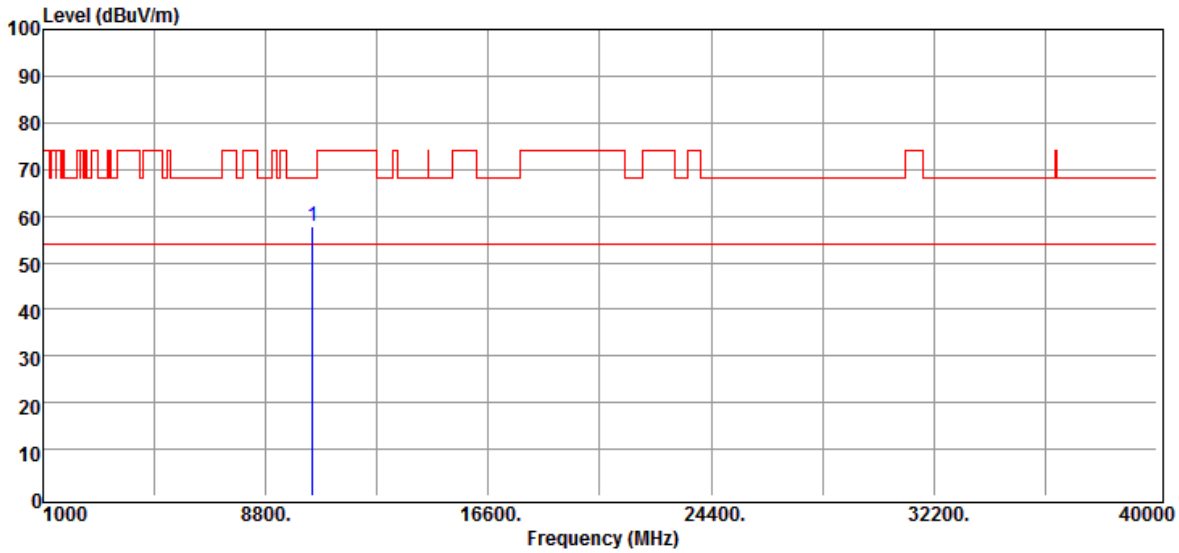
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Operation Mode :802.11n20 / Band 1  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5220 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10440.00	Peak	30.92	26.98	57.90	68.20	-10.30

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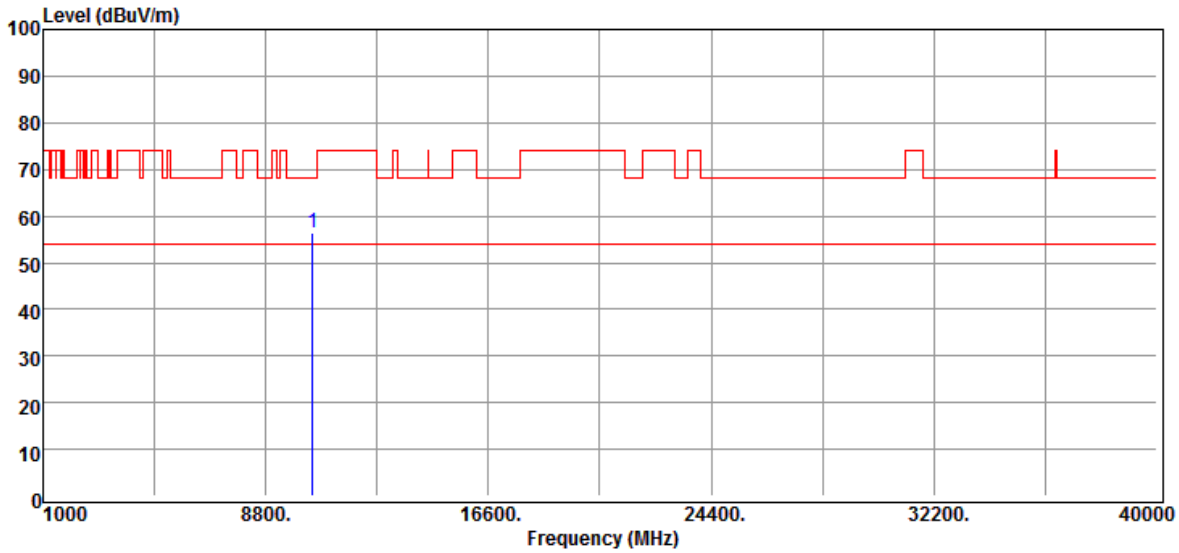
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Operation Mode :802.11n20 / Band 1  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5220 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	29.42	26.98	56.40	68.20	-11.80

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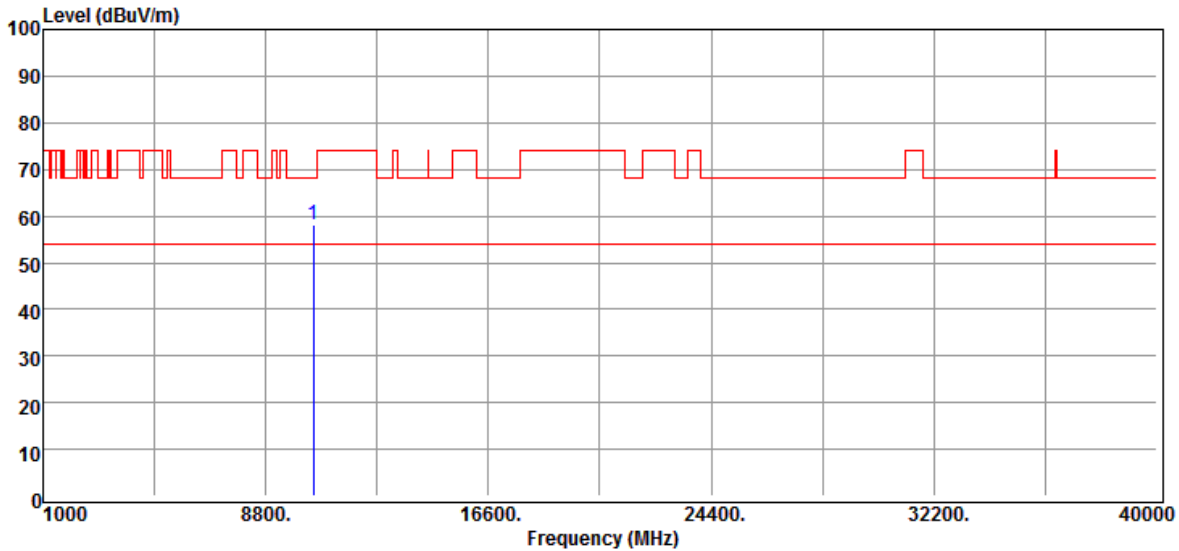
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Operation Mode	:802.11n20 / Band 1	Test Date	:2018-07-20
Test Mode	:TX CH HIGH	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5240 MHz	Engineer	:Enzo



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	31.05	27.16	58.21	68.20	-9.99

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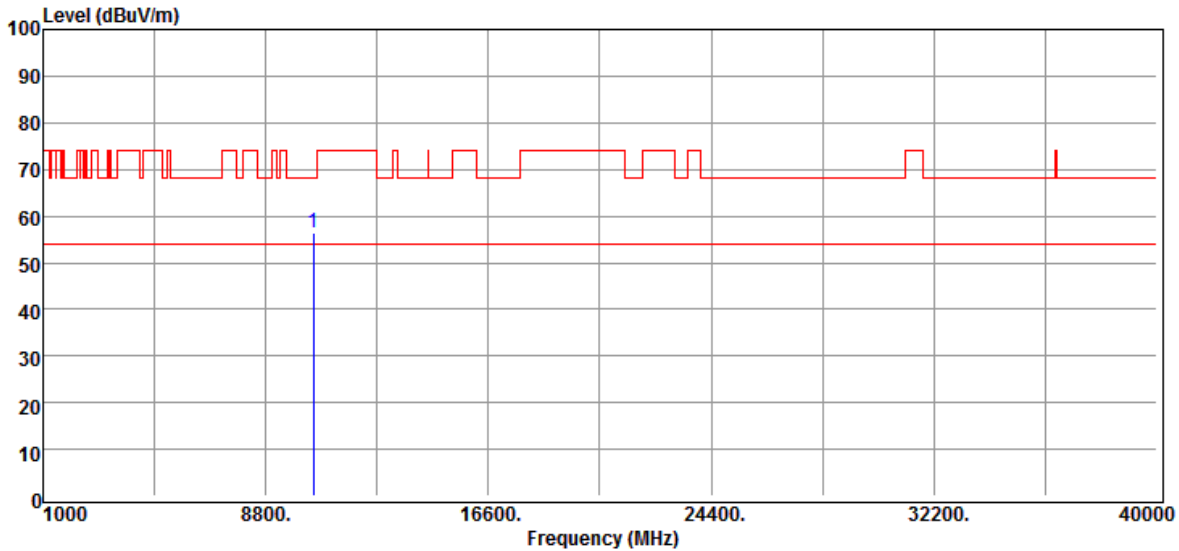
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Operation Mode	:802.11n20 / Band 1	Test Date	:2018-07-20
Test Mode	:TX CH HIGH	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5240 MHz	Engineer	:Enzo



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	29.33	27.16	56.49	68.20	-11.71

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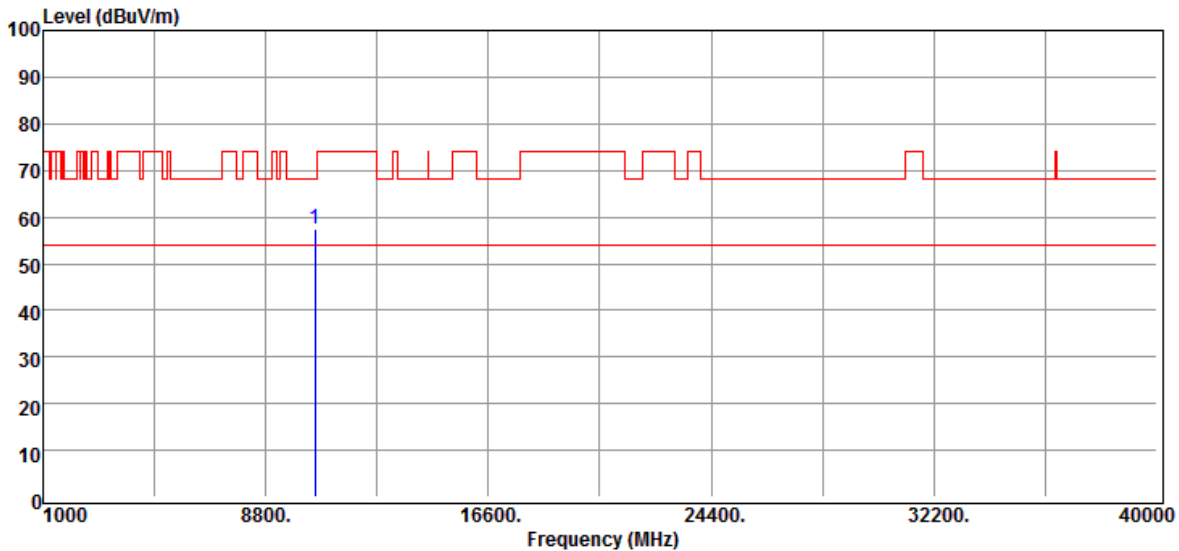
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**Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz**

Operation Mode	:802.11n20 / Band 2	Test Date	:2018-07-20
Test Mode	:TX CH LOW	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5260 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	30.14	27.23	57.37	68.20	-10.83

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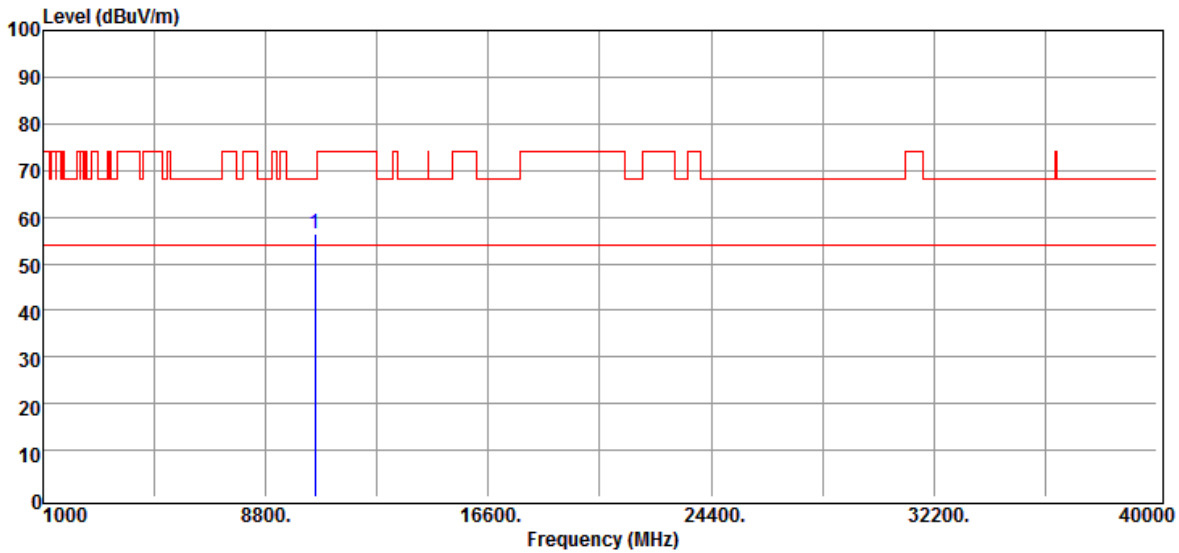
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Operation Mode :802.11n20 / Band 2  
 Test Mode :TX CH LOW  
 EUT Pol :H Plan  
 Test Channel :5260 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	29.12	27.23	56.35	68.20	-11.85

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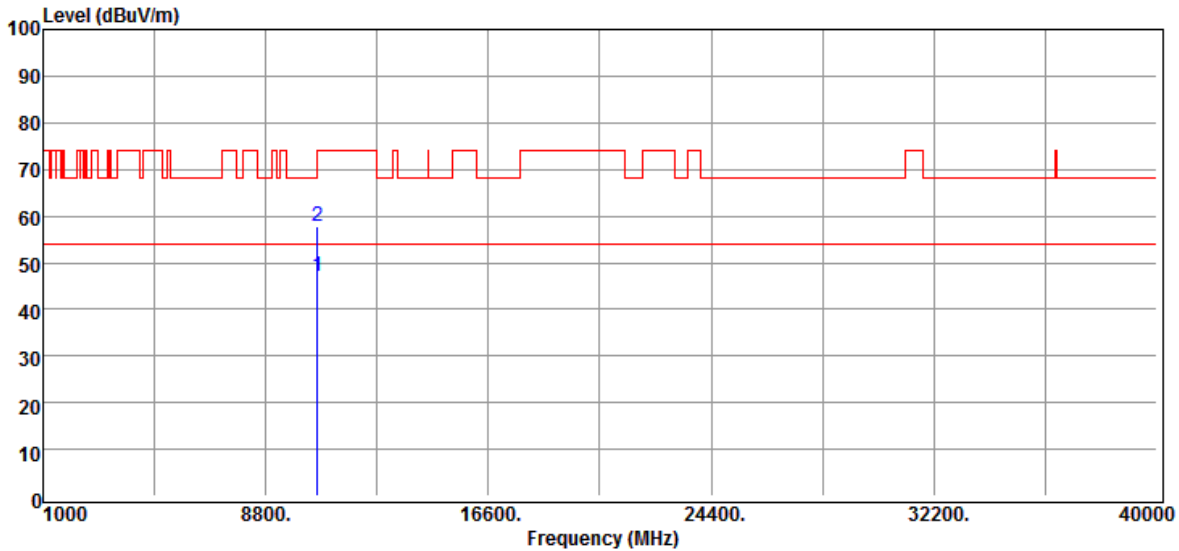
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Operation Mode	:802.11n20 / Band 2	Test Date	:2018-07-20
Test Mode	:TX CH MID	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5300 MHz	Engineer	:Enzo



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	19.87	27.21	47.08	54.00	-6.92
10600.00	Peak	30.48	27.21	57.69	68.20	-10.51

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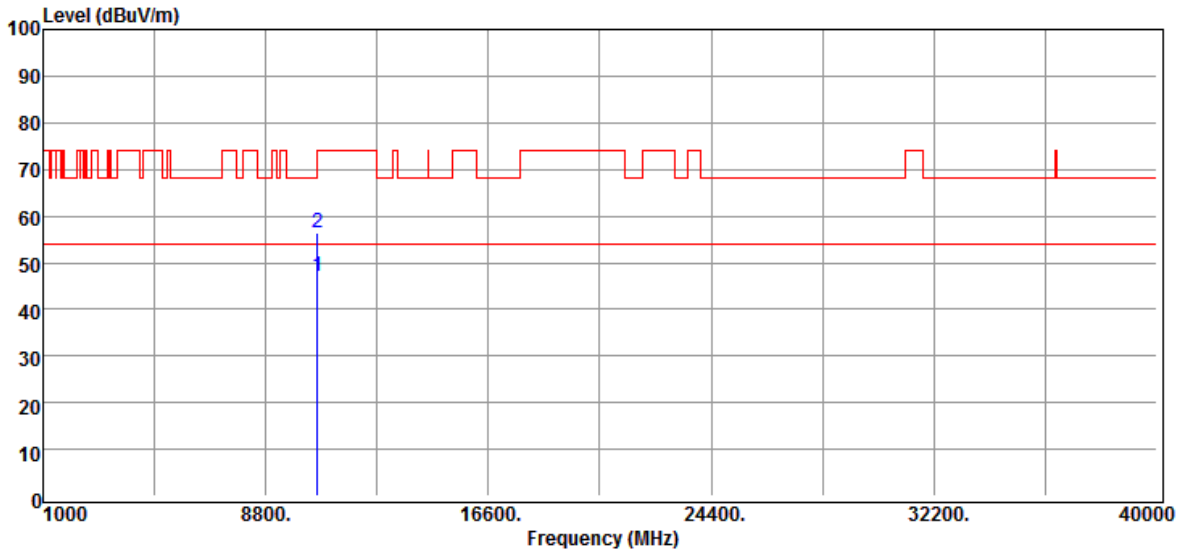
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Operation Mode :802.11n20 / Band 2  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5300 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10600.00	Average	19.86	27.21	47.07	54.00	-6.93
10600.00	Peak	29.12	27.21	56.33	68.20	-11.87

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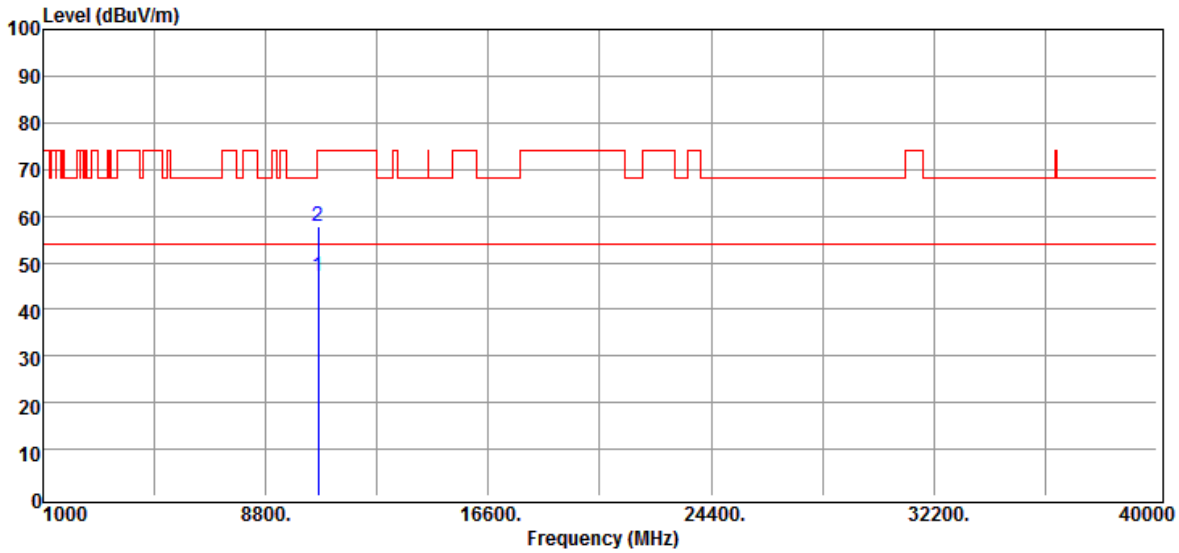
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Operation Mode :802.11n20 / Band 2  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5320 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



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	19.76	27.20	46.96	54.00	-7.04
10640.00	Peak	30.42	27.20	57.62	74.00	-16.38

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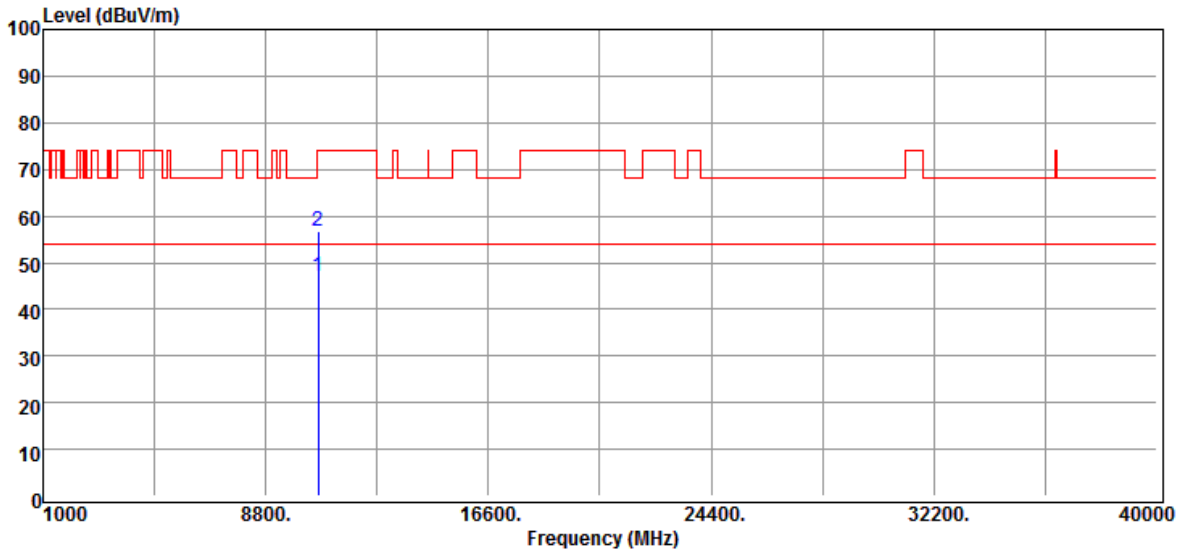
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Operation Mode :802.11n20 / Band 2  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5320 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10640.00	Average	19.71	27.20	46.91	54.00	-7.09
10640.00	Peak	29.50	27.20	56.70	74.00	-17.30

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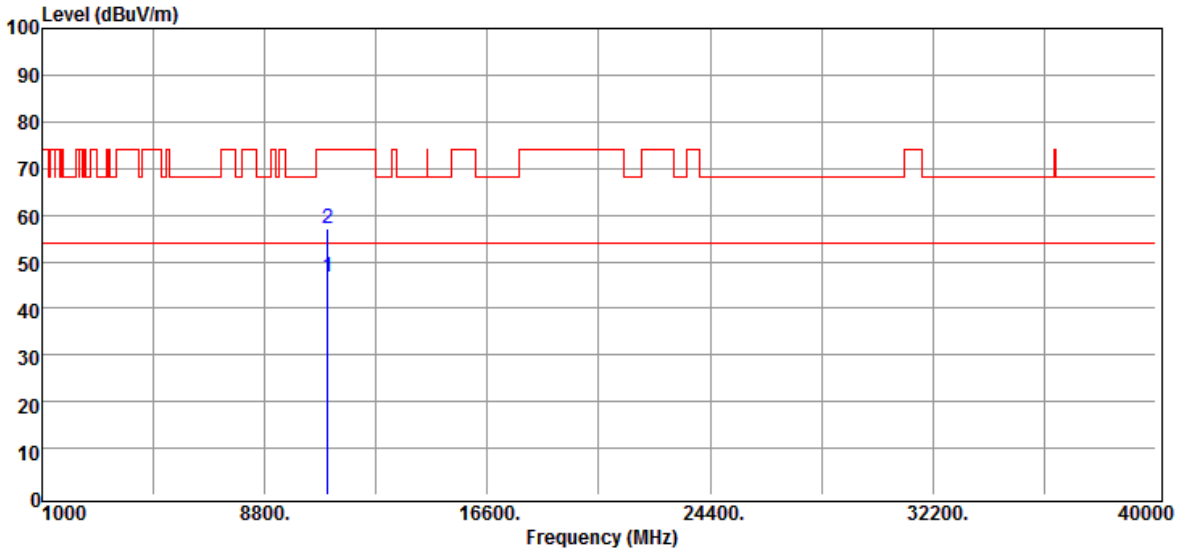
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode	:802.11n20 / Band 3	Test Date	:2018-07-20
Test Mode	:TX CH LOW	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11000.00	Average	19.66	27.09	46.75	54.00	-7.25
11000.00	Peak	30.13	27.09	57.22	74.00	-16.78

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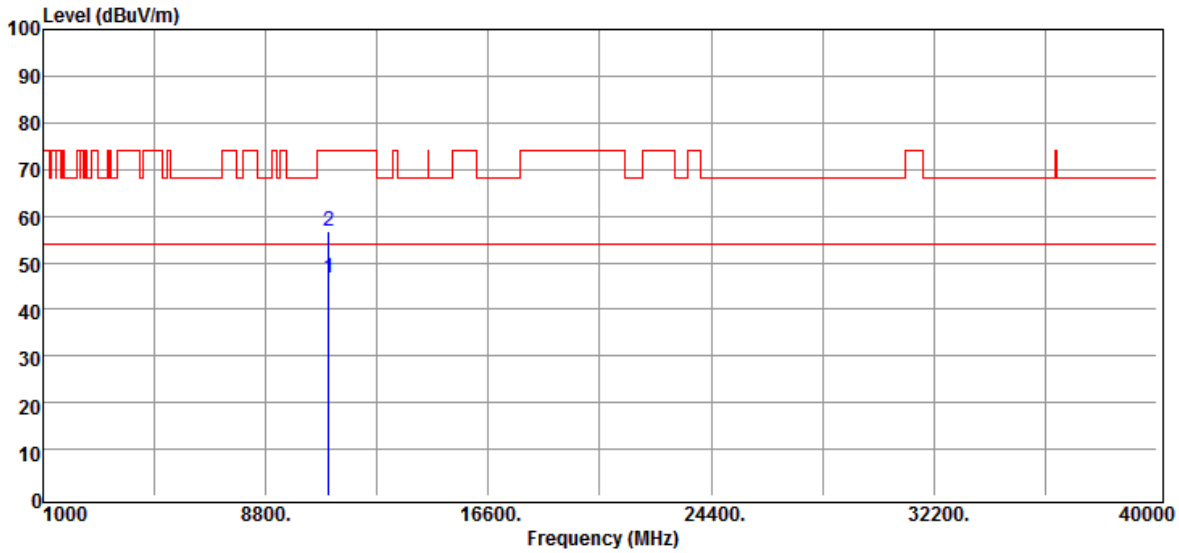
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Operation Mode :802.11n20 / Band 3  
 Test Mode :TX CH LOW  
 EUT Pol :H Plan  
 Test Channel :5500 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	19.69	27.09	46.78	54.00	-7.22
11000.00	Peak	29.68	27.09	56.77	74.00	-17.23

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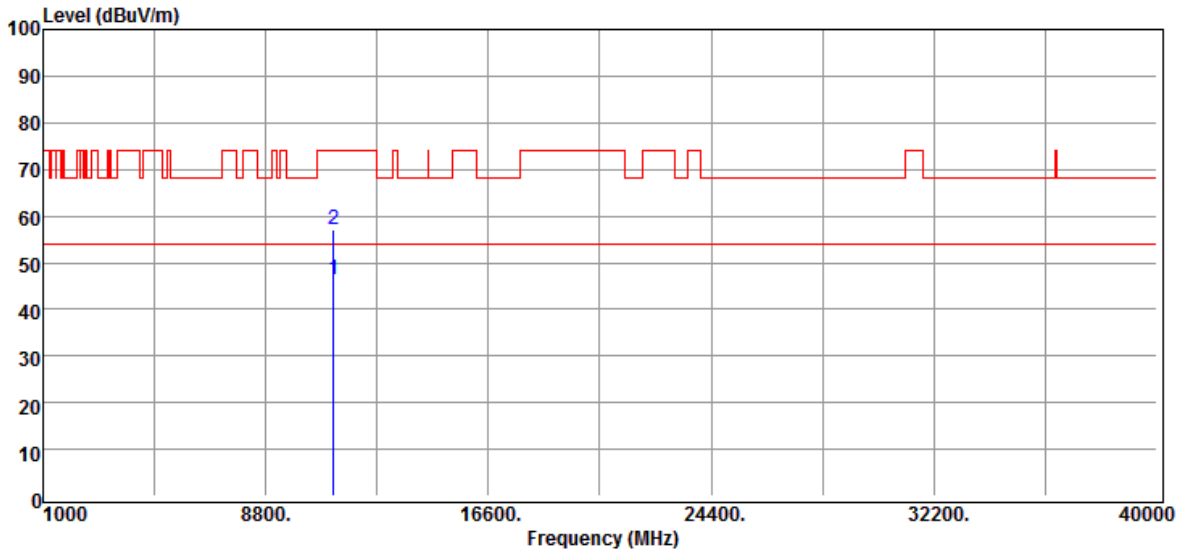
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Operation Mode	:802.11n20 / Band 3	Test Date	:2018-07-20
Test Mode	:TX CH MID	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5580 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11160.00	Average	19.64	26.67	46.31	54.00	-7.69
11160.00	Peak	30.39	26.67	57.06	74.00	-16.94

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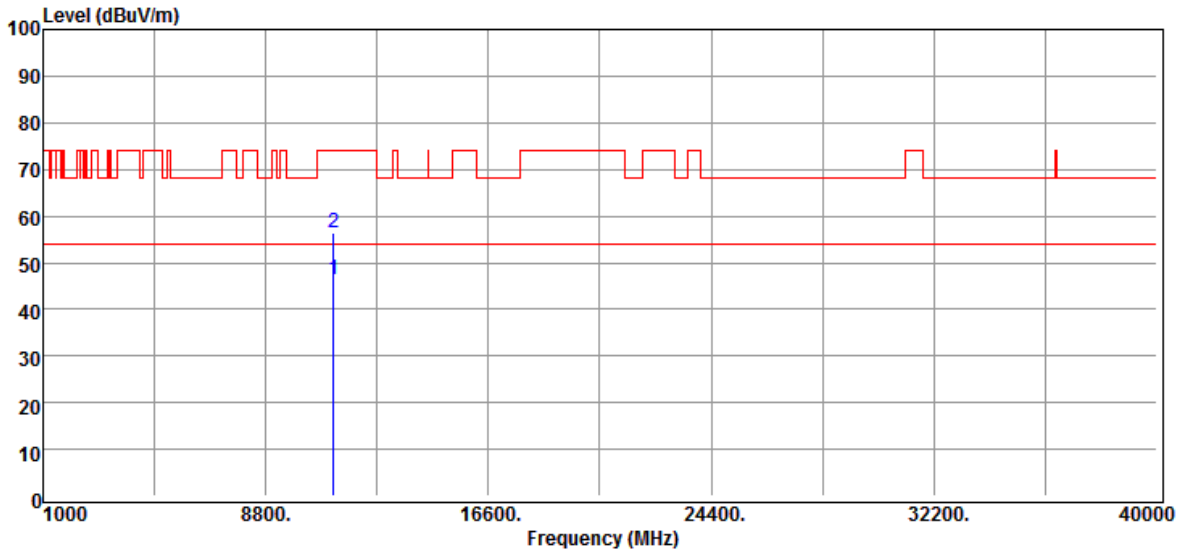
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Operation Mode :802.11n20 / Band 3  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5580 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	19.74	26.67	46.41	54.00	-7.59
11160.00	Peak	29.67	26.67	56.34	74.00	-17.66

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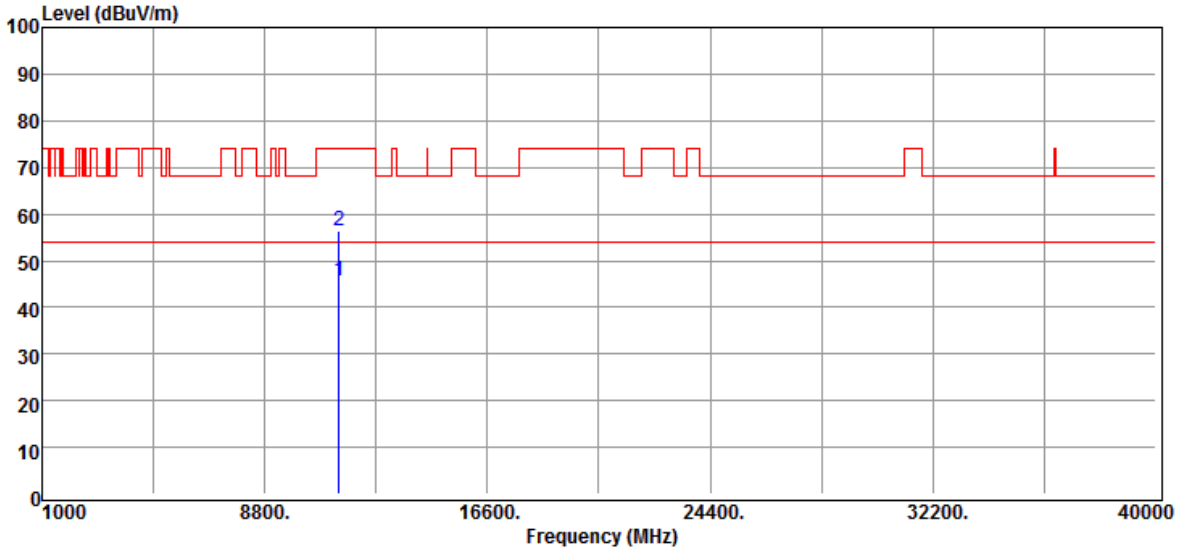
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Operation Mode	:802.11n20 / Band 3	Test Date	:2018-07-20
Test Mode	:TX CH HIGH	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Enzo



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	19.59	26.07	45.66	54.00	-8.34
11400.00	Peak	30.17	26.07	56.24	74.00	-17.76

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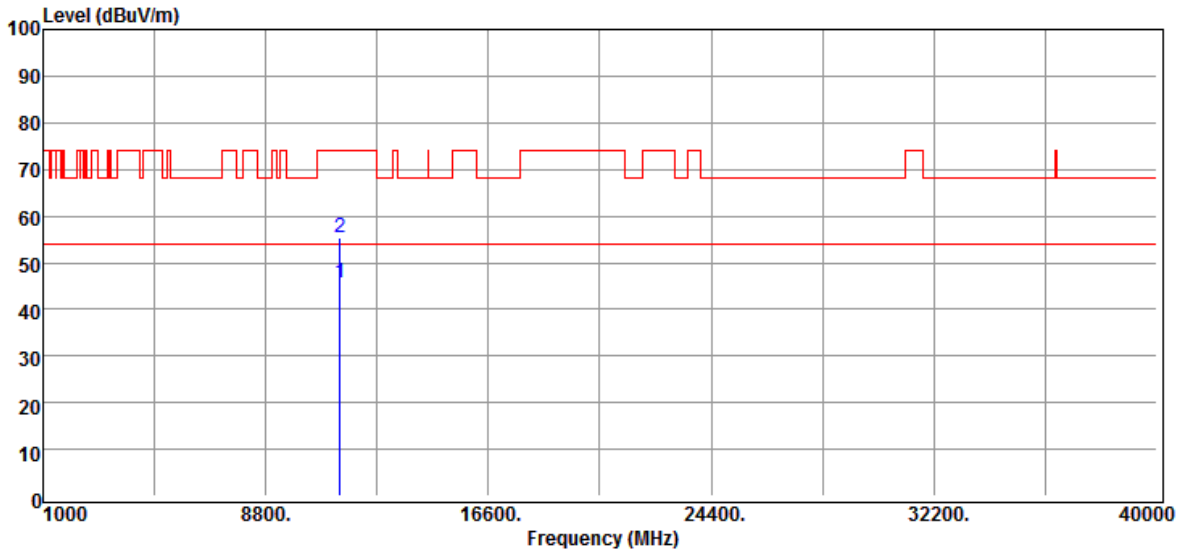
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Operation Mode :802.11n20 / Band 3  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5700 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	19.60	26.07	45.67	54.00	-8.33
11400.00	Peak	29.45	26.07	55.52	74.00	-18.48

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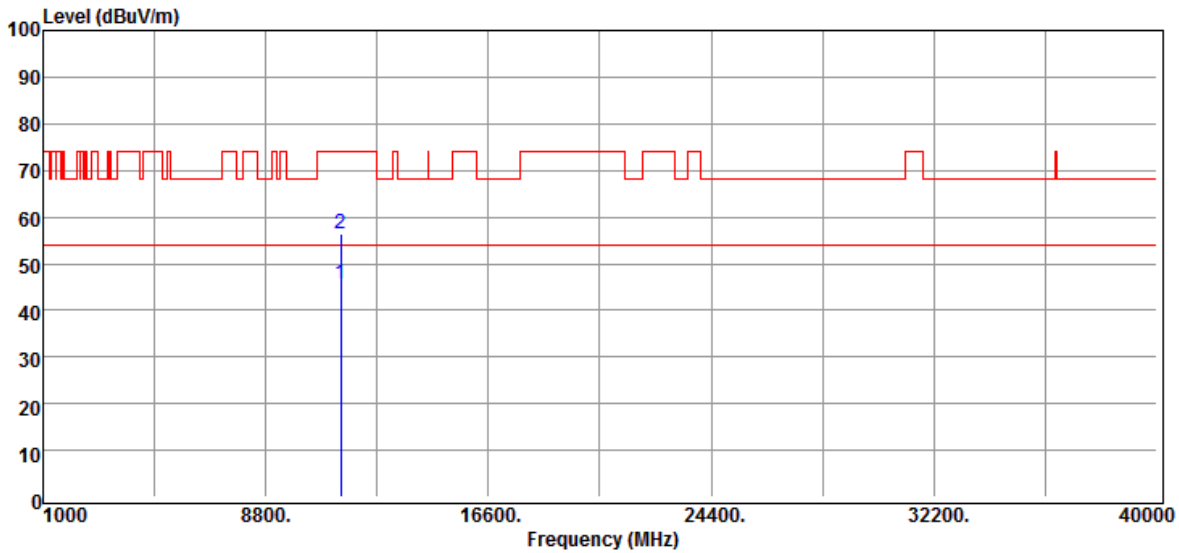
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5720MHz

Operation Mode	:802.11n20 / Band 3/4	Test Date	:2018-07-20
Test Mode	:TX CH 144	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5720 MHz	Engineer	:Enzo



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	19.78	25.96	45.74	54.00	-8.26
11440.00	Peak	30.39	25.96	56.35	74.00	-17.65

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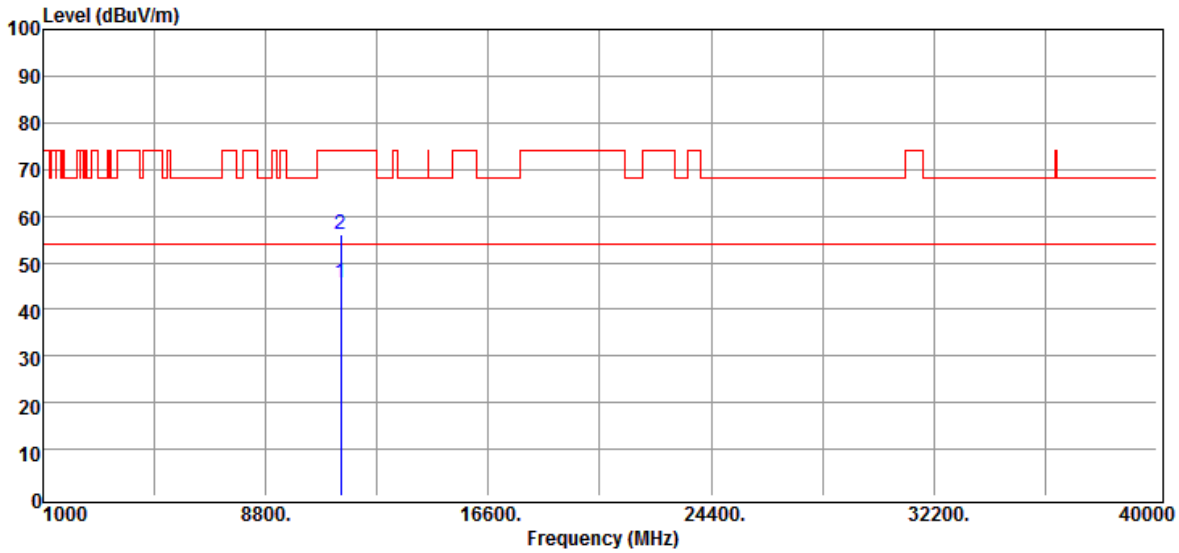
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Operation Mode :802.11n20 / Band 3/4  
 Test Mode :TX CH 144  
 EUT Pol :H Plan  
 Test Channel :5720 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11440.00	Average	19.75	25.96	45.71	54.00	-8.29
11440.00	Peak	30.20	25.96	56.16	74.00	-17.84

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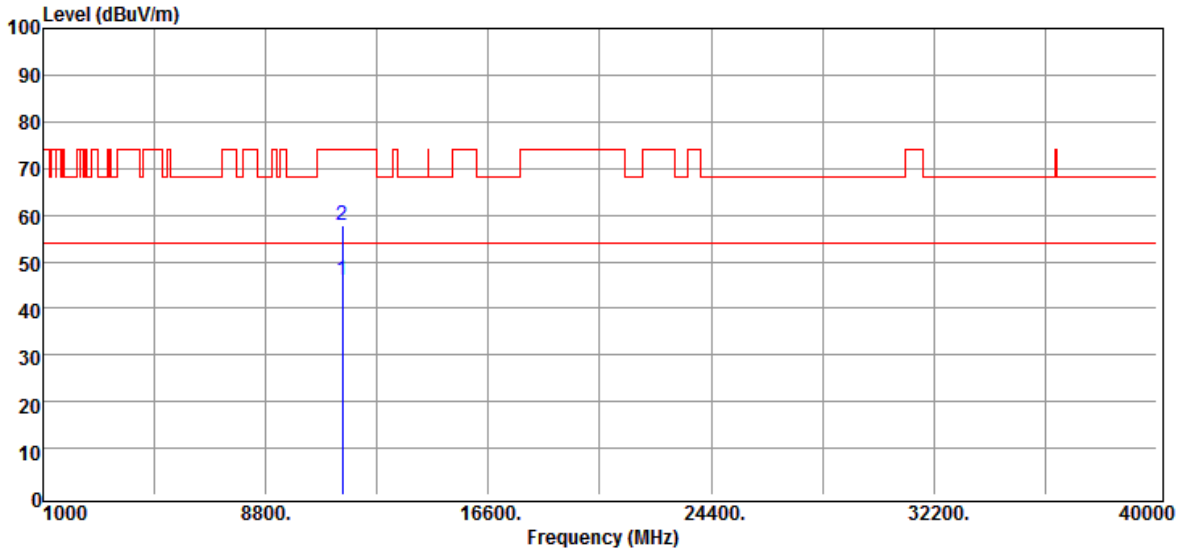
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**Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850MHz**

Operation Mode	:802.11n20 / Band 4	Test Date	:2018-07-20
Test Mode	:TX CH LOW	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Enzo



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	20.34	25.83	46.17	54.00	-7.83
11490.00	Peak	32.00	25.83	57.83	74.00	-16.17

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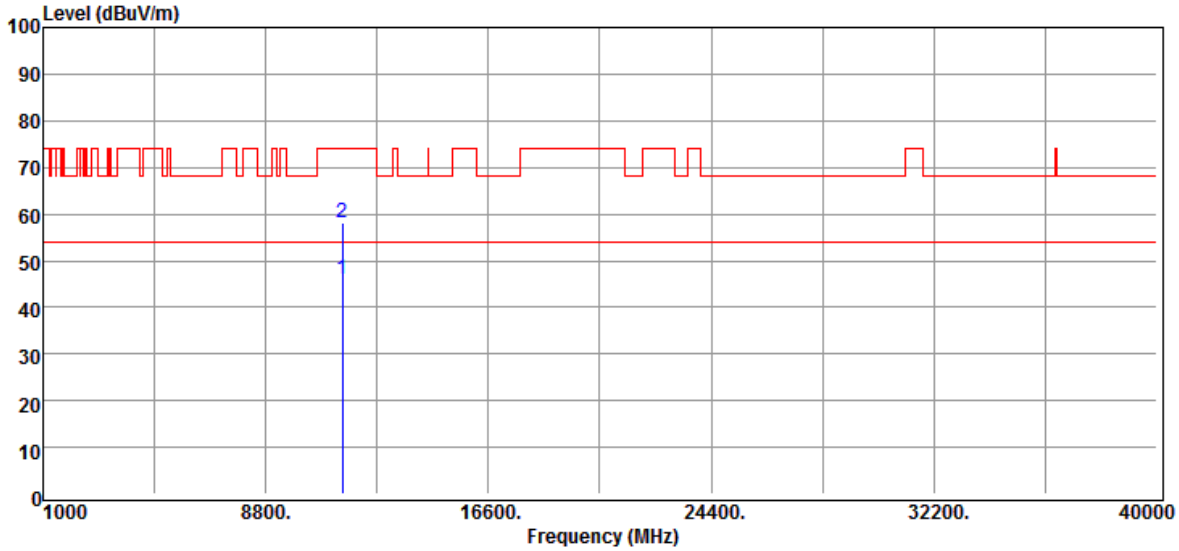
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Operation Mode :802.11n20 / Band 4  
 Test Mode :TX CH LOW  
 EUT Pol :H Plan  
 Test Channel :5745 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	20.27	25.83	46.10	54.00	-7.90
11490.00	Peak	32.19	25.83	58.02	74.00	-15.98

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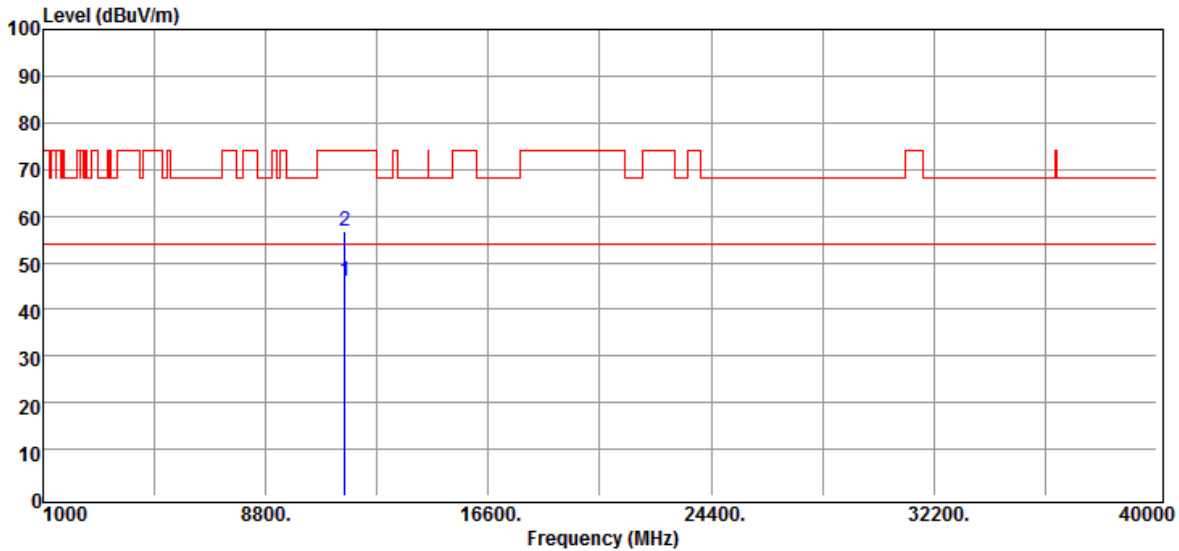
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Operation Mode :802.11n20 / Band 4  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5785 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



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	20.05	25.87	45.92	54.00	-8.08
11570.00	Peak	30.84	25.87	56.71	74.00	-17.29

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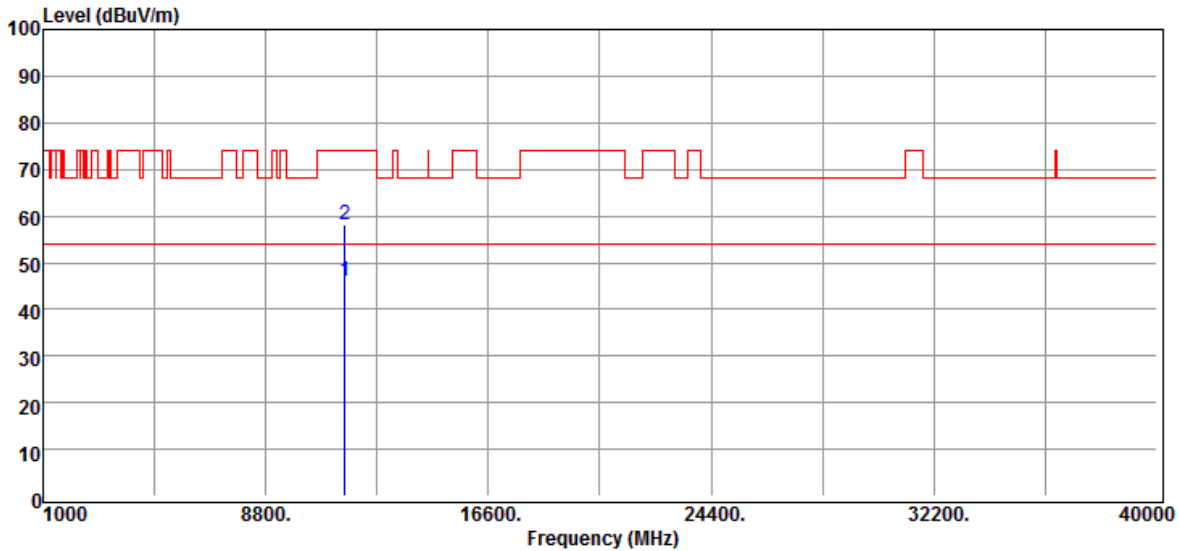
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Operation Mode :802.11n20 / Band 4  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5785 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	20.12	25.87	45.99	54.00	-8.01
11570.00	Peak	32.18	25.87	58.05	74.00	-15.95

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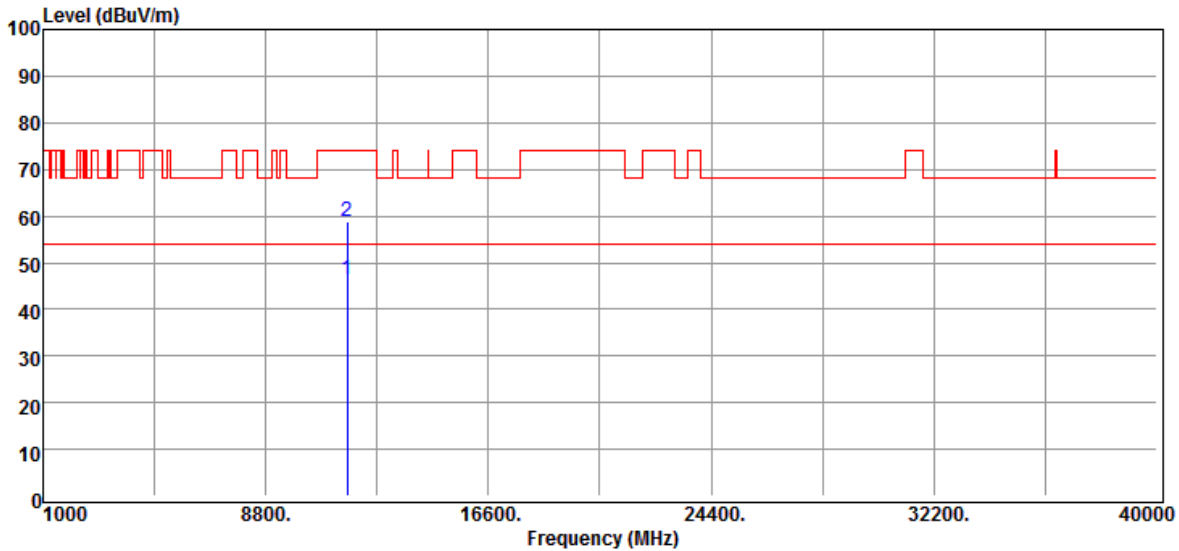
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Operation Mode :802.11n20 / Band 4  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5825 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



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	20.25	25.94	46.19	54.00	-7.81
11650.00	Peak	32.86	25.94	58.80	74.00	-15.20

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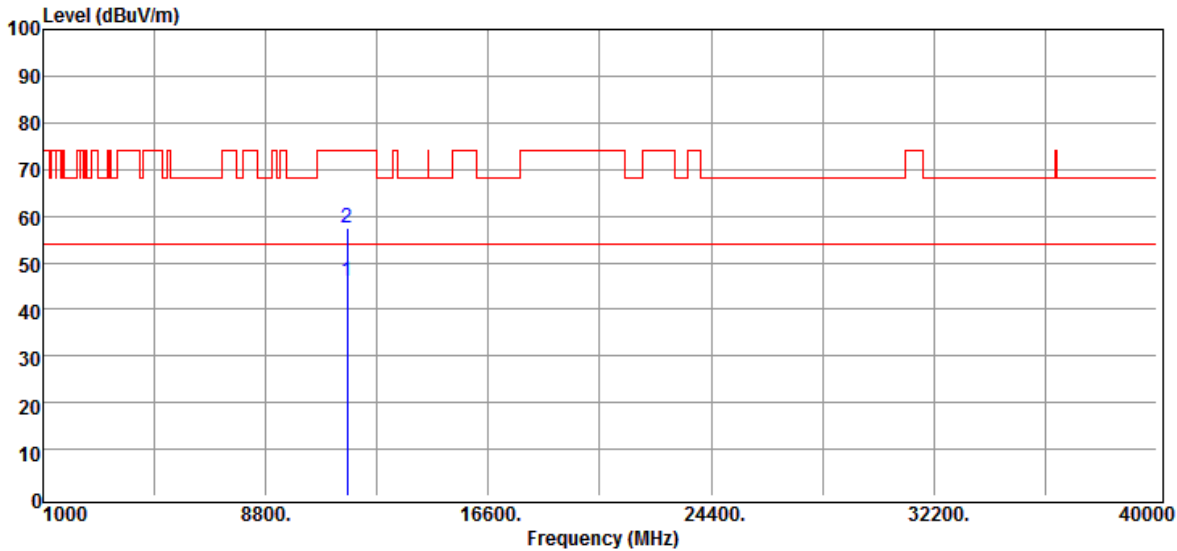
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Operation Mode :802.11n20 / Band 4  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5825 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	20.10	25.94	46.04	54.00	-7.96
11650.00	Peak	31.58	25.94	57.52	74.00	-16.48

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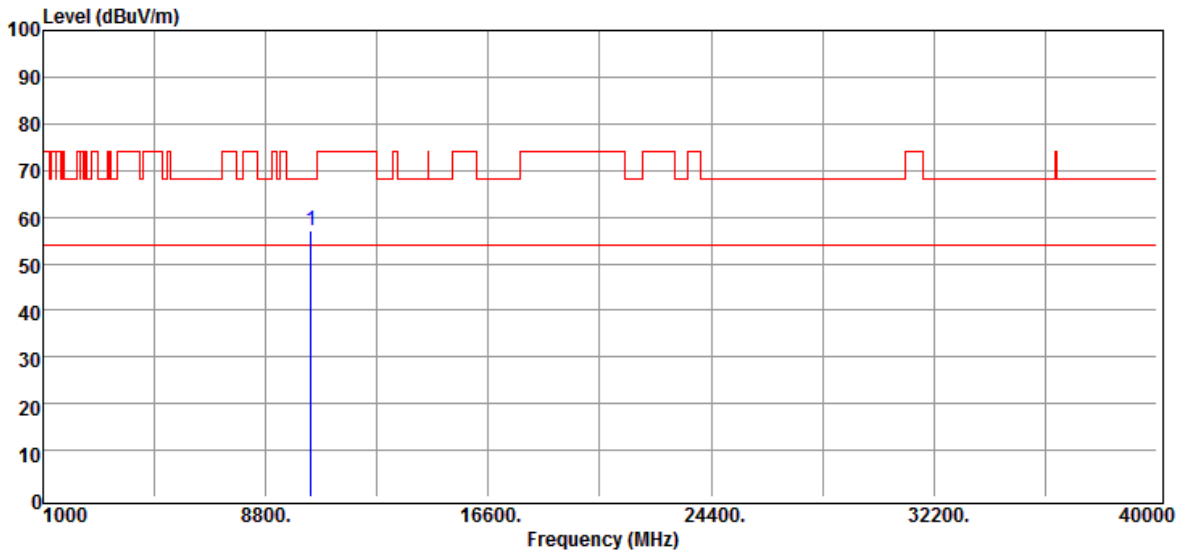
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode	:802.11n40 / Band 1	Test Date	:2018-07-20
Test Mode	:TX CH LOW	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5190 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	30.29	26.69	56.98	68.20	-11.22

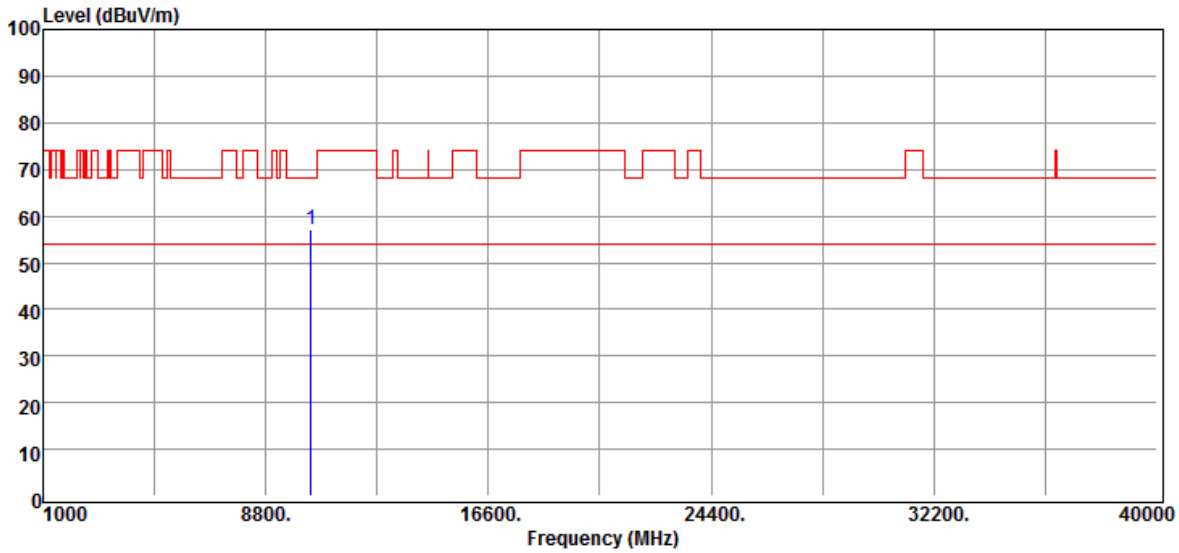
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Operation Mode	:802.11n40 / Band 1	Test Date	:2018-07-20
Test Mode	:TX CH LOW	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5190 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	30.40	26.69	57.09	68.20	-11.11

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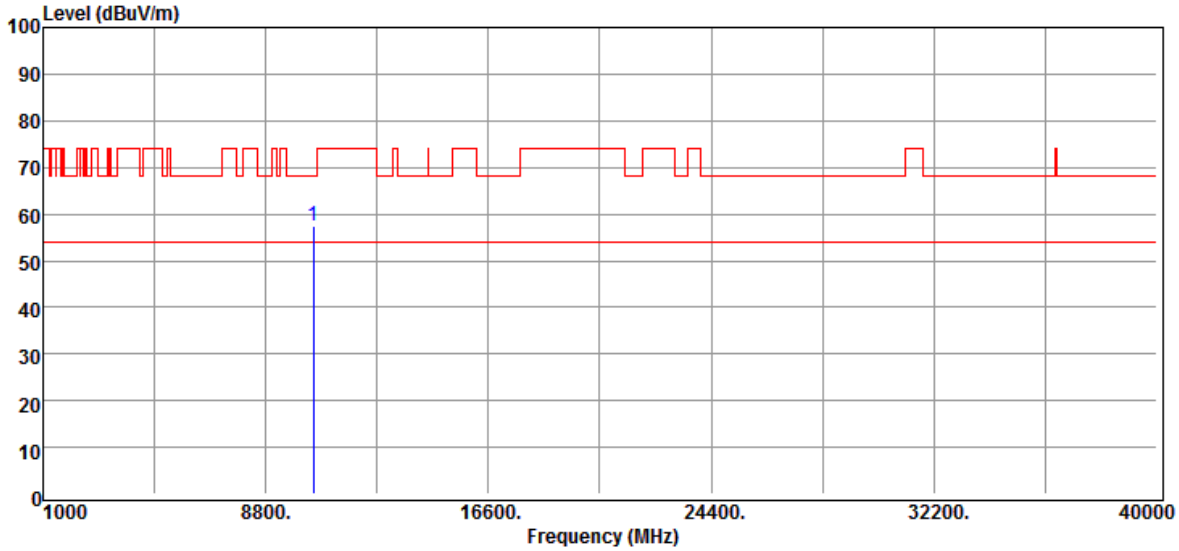
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Operation Mode	:802.11n40 / Band 1	Test Date	:2018-07-20
Test Mode	:TX CH HIGH	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5230 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	30.55	27.06	57.61	68.20	-10.59

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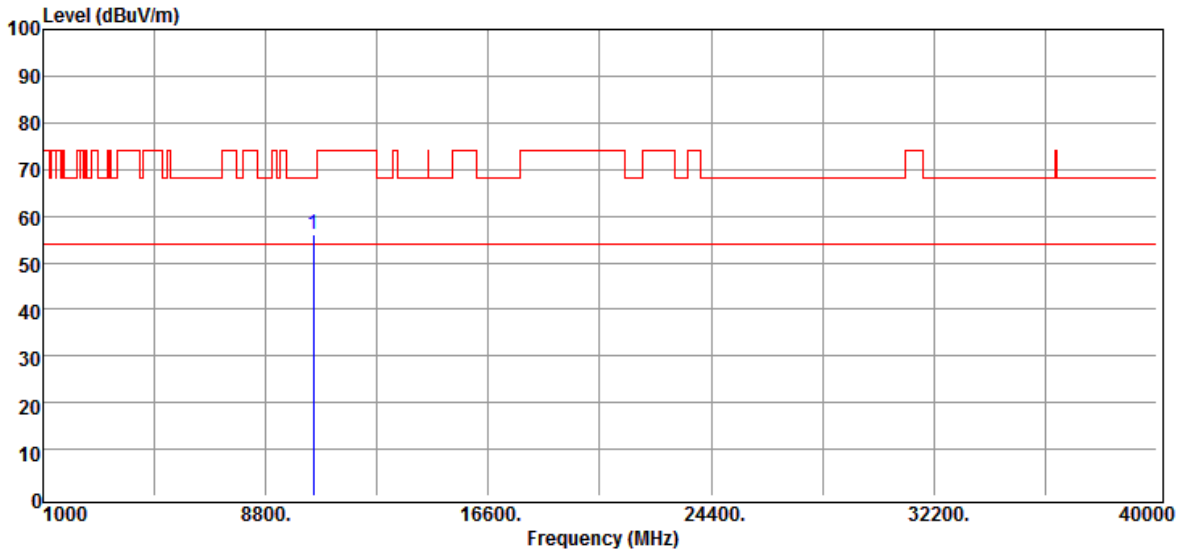
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Operation Mode :802.11n40 / Band 1  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5230 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	29.12	27.06	56.18	68.20	-12.02

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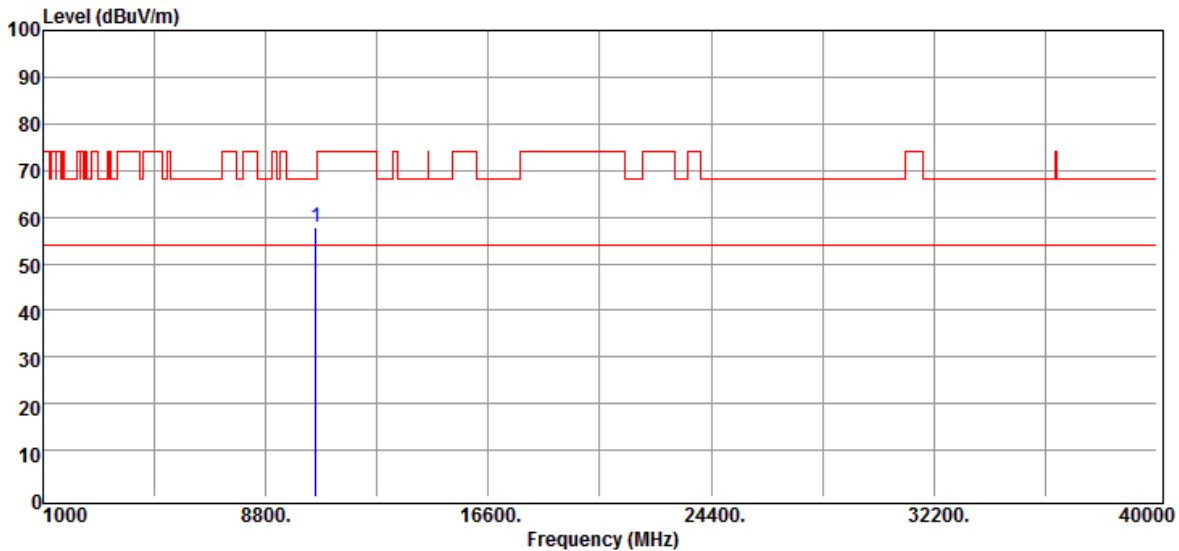
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode	:802.11n40 / Band 2	Test Date	:2018-07-20
Test Mode	:TX CH LOW	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5270 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	Peak	30.52	27.23	57.75	68.20	-10.45

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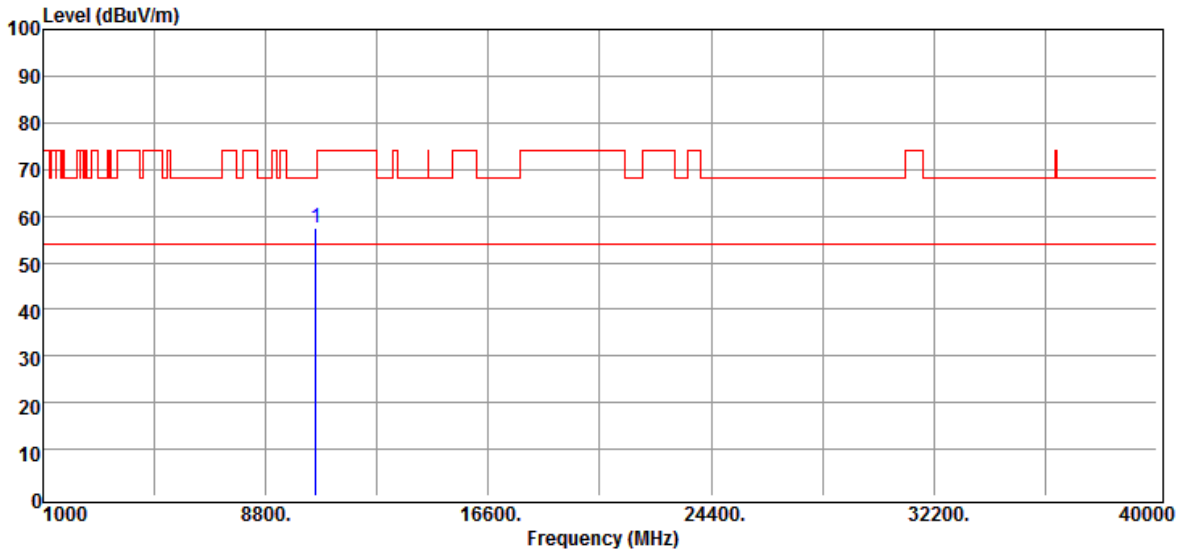
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Operation Mode :802.11n40 / Band 2  
 Test Mode :TX CH LOW  
 EUT Pol :H Plan  
 Test Channel :5270 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	Peak	30.20	27.23	57.43	68.20	-10.77

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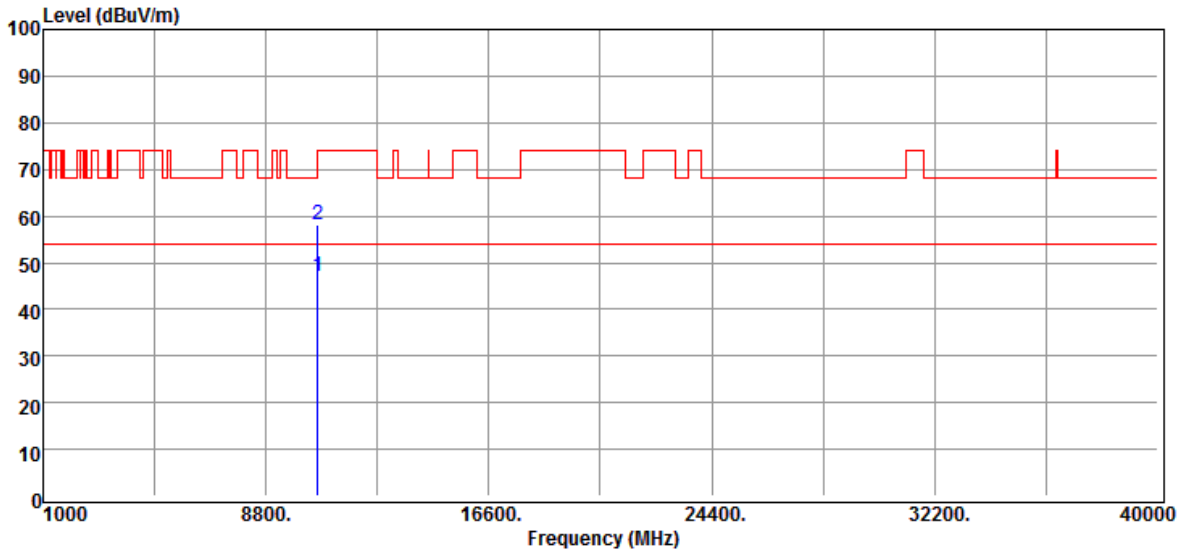
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Operation Mode :802.11n40 / Band 2  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5310 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10620.00	Average	19.61	27.20	46.81	54.00	-7.19
10620.00	Peak	31.05	27.20	58.25	74.00	-15.75

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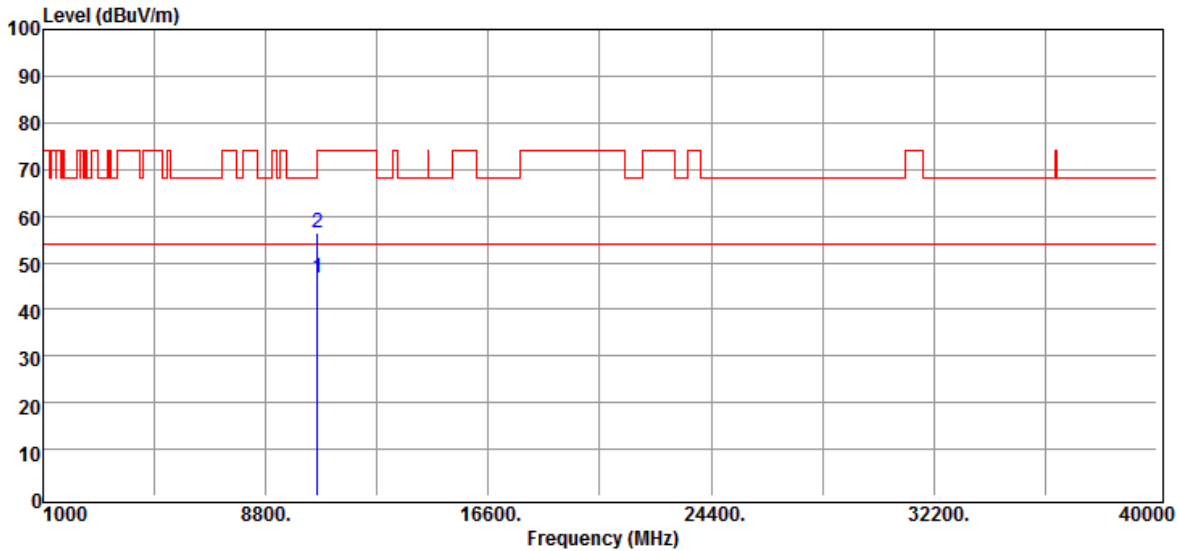
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Operation Mode	:802.11n40 / Band 2	Test Date	:2018-07-20
Test Mode	:TX CH HIGH	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5310 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10620.00	Average	19.66	27.20	46.86	54.00	-7.14
10620.00	Peak	29.04	27.20	56.24	74.00	-17.76

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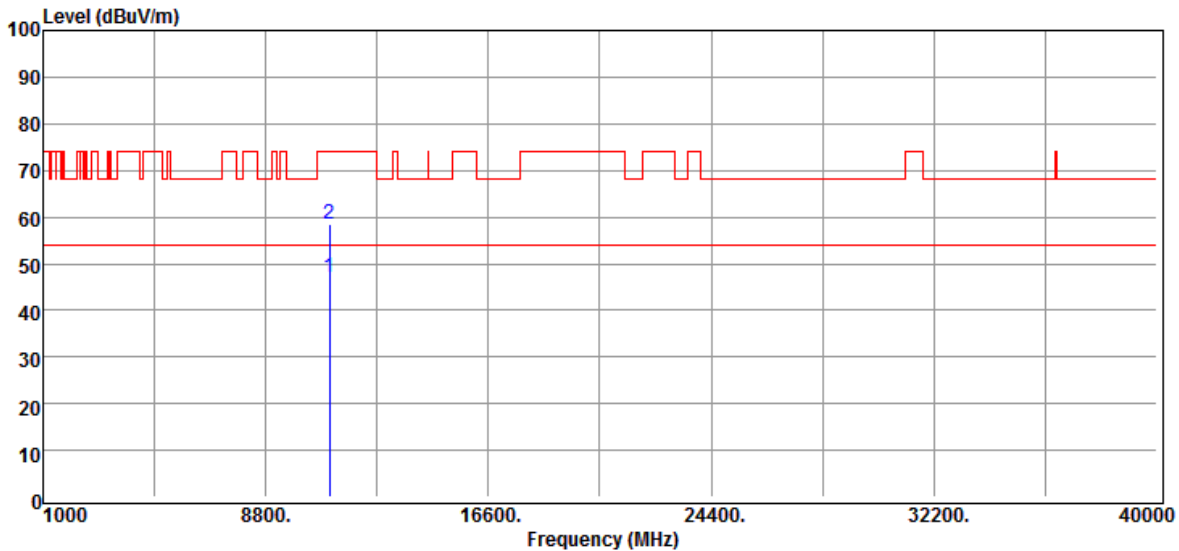
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode	:802.11n40 / Band 3	Test Date	:2018-07-20
Test Mode	:TX CH LOW	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5510 MHz	Engineer	:Enzo



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	19.91	27.04	46.95	54.00	-7.05
11020.00	Peak	31.41	27.04	58.45	74.00	-15.55

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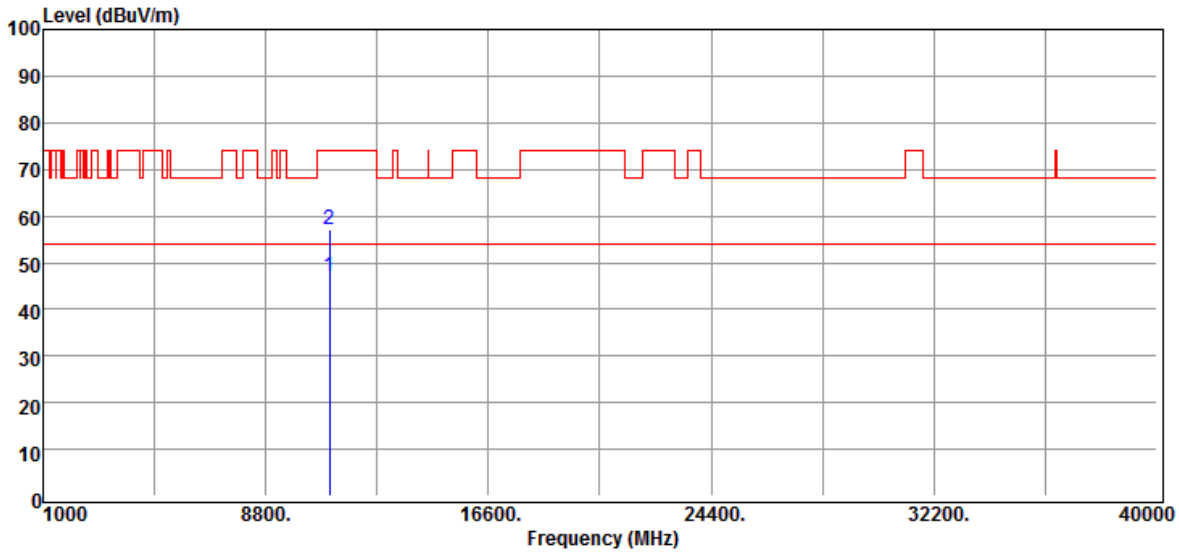
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Operation Mode :802.11n40 / Band 3  
 Test Mode :TX CH LOW  
 EUT Pol :H Plan  
 Test Channel :5510 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	19.88	27.04	46.92	54.00	-7.08
11020.00	Peak	29.88	27.04	56.92	74.00	-17.08

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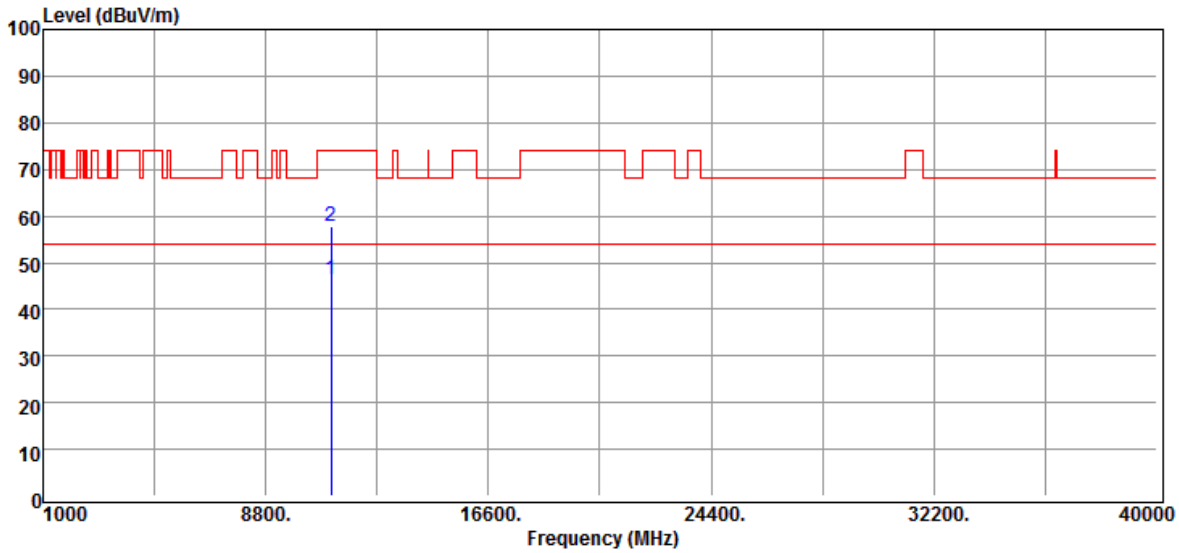
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Operation Mode :802.11n40 / Band 3  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5550 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



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	19.68	26.83	46.51	54.00	-7.49
11100.00	Peak	30.83	26.83	57.66	74.00	-16.34

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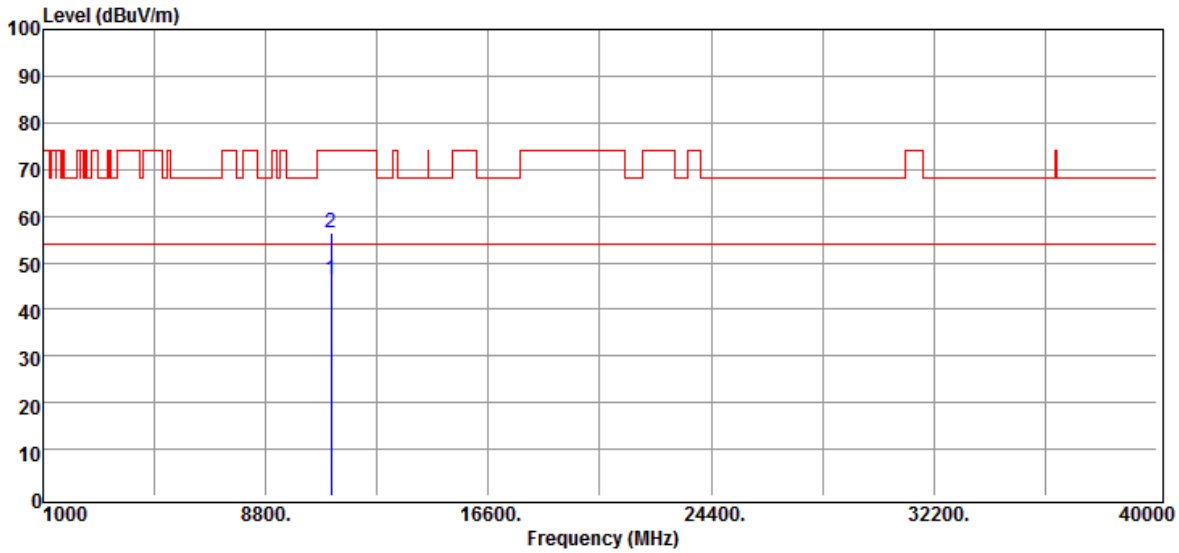
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Operation Mode :802.11n40 / Band 3  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5550 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	19.69	26.83	46.52	54.00	-7.48
11100.00	Peak	29.70	26.83	56.53	74.00	-17.47

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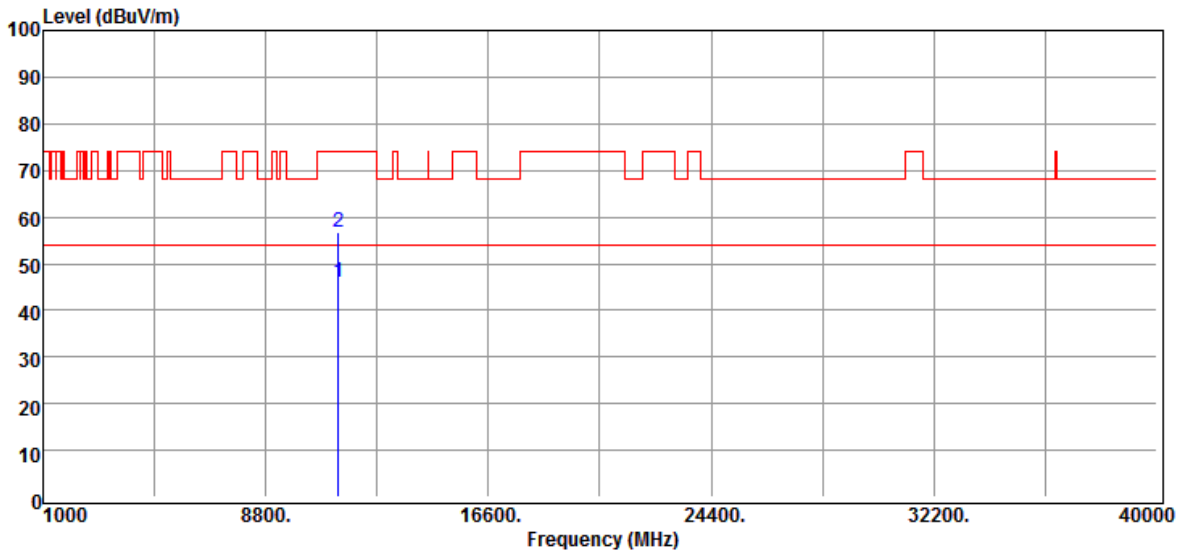
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Operation Mode :802.11n40 / Band 3  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5670 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



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	19.76	26.21	45.97	54.00	-8.03
11340.00	Peak	30.52	26.21	56.73	74.00	-17.27

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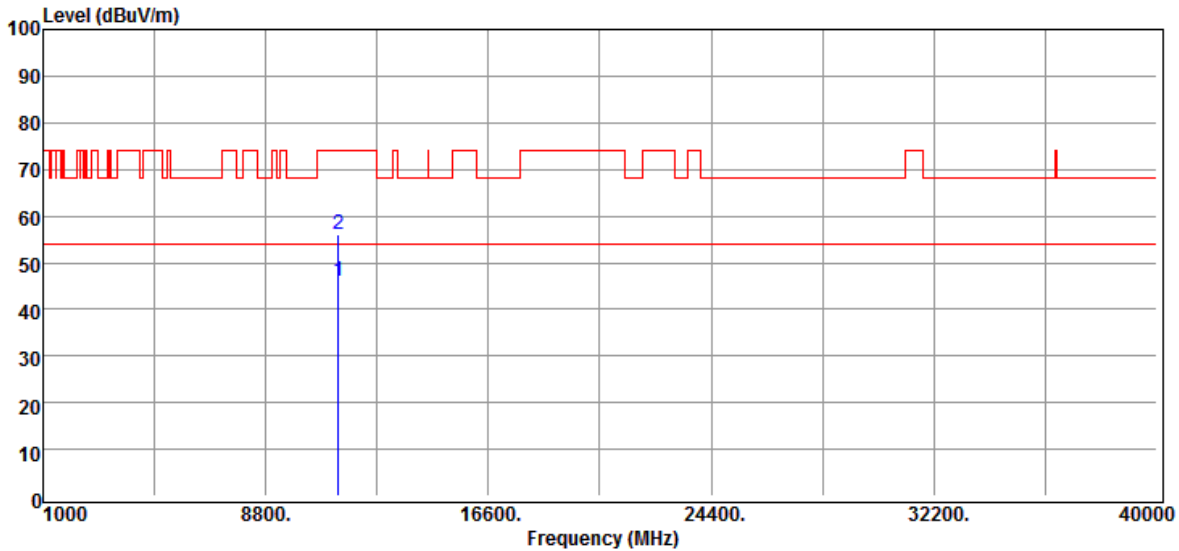
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Operation Mode :802.11n40 / Band 3  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5670 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	19.71	26.21	45.92	54.00	-8.08
11340.00	Peak	29.83	26.21	56.04	74.00	-17.96

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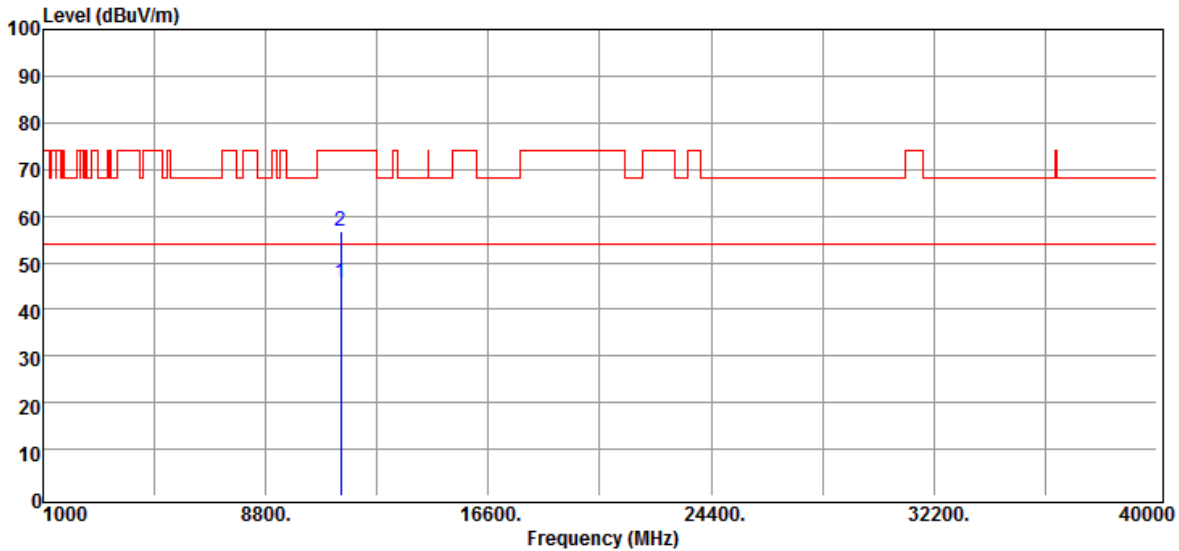
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5710MHz

Operation Mode	:802.11n40 / Band 3/4	Test Date	:2018-07-20
Test Mode	:TX CH 142	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5710 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11420.00	Average	19.81	26.01	45.82	54.00	-8.18
11420.00	Peak	30.63	26.01	56.64	74.00	-17.36

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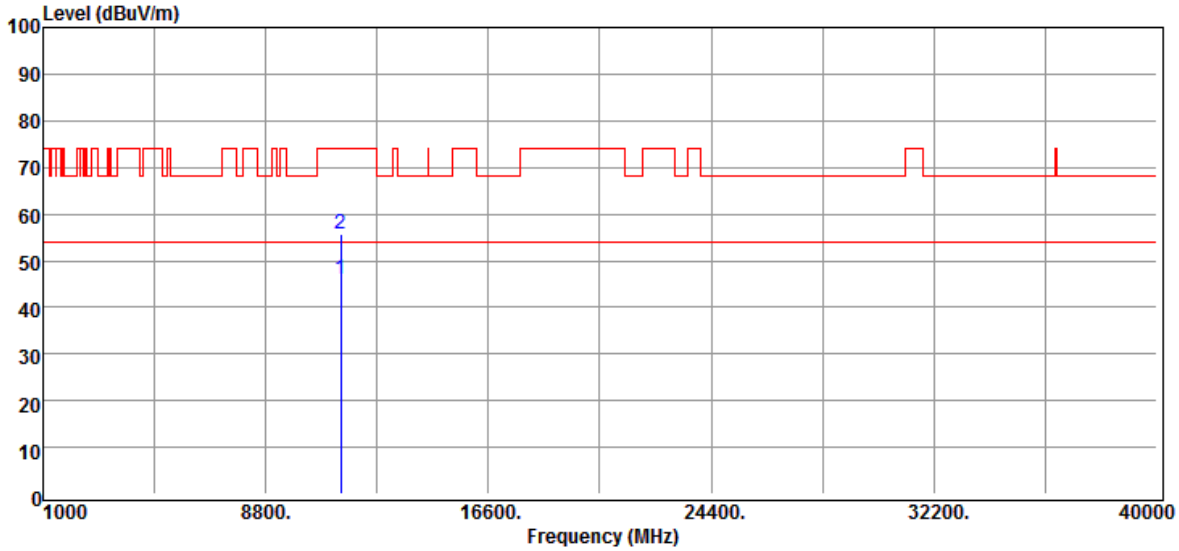
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Operation Mode :802.11n40 / Band 3/4  
 Test Mode :TX CH 142  
 EUT Pol :H Plan  
 Test Channel :5710 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	19.89	26.01	45.90	54.00	-8.10
11420.00	Peak	29.65	26.01	55.66	74.00	-18.34

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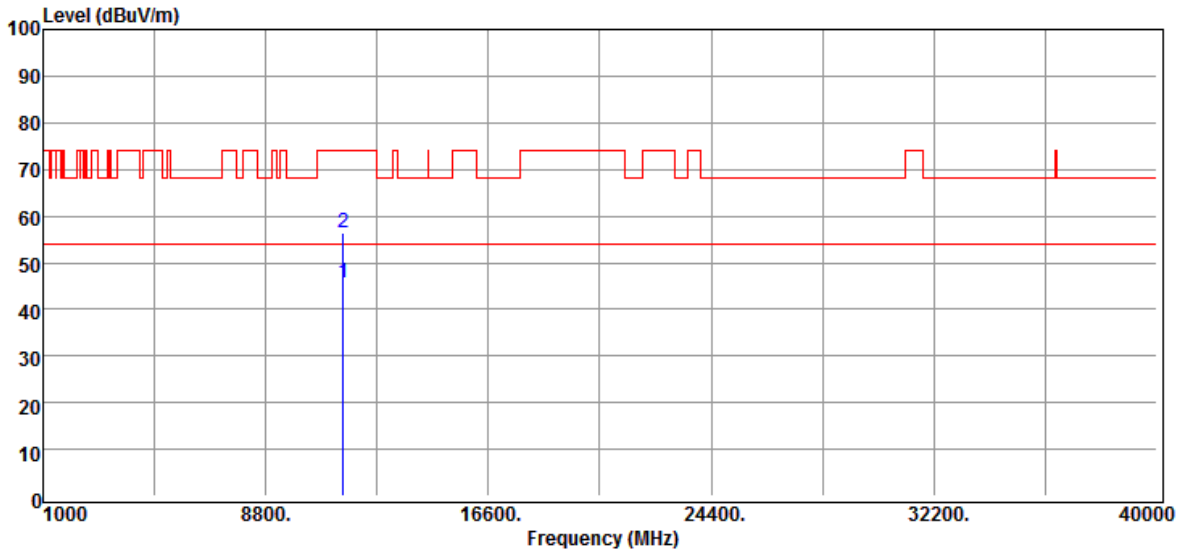
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850MHz

Operation Mode	:802.11n40 / Band 4	Test Date	:2018-07-20
Test Mode	:TX CH LOW	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5755 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11510.00	Average	19.89	25.82	45.71	54.00	-8.29
11510.00	Peak	30.58	25.82	56.40	74.00	-17.60

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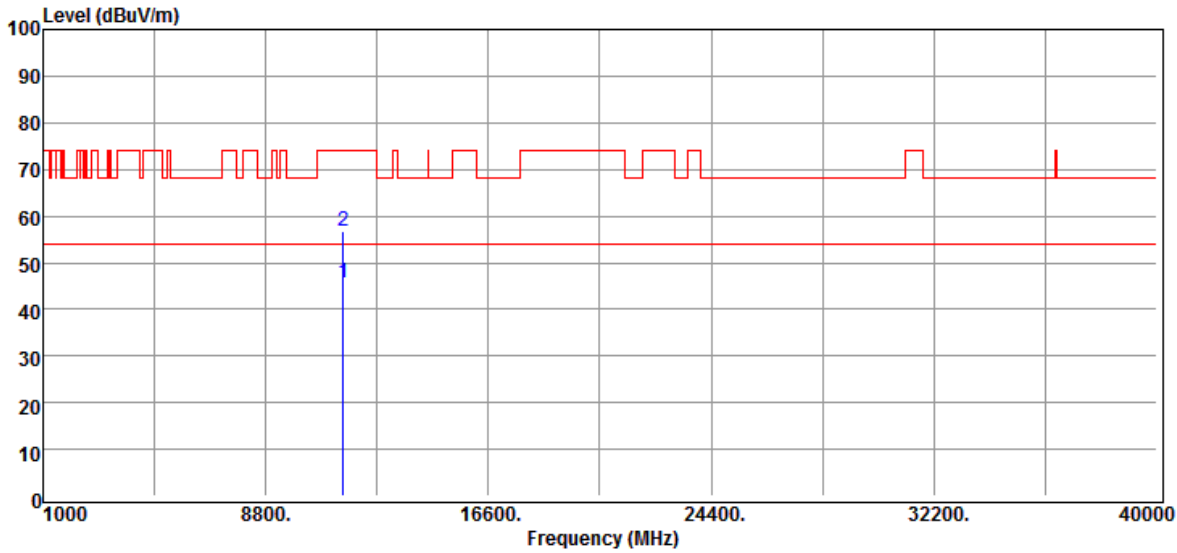
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Operation Mode :802.11n40 / Band 4  
 Test Mode :TX CH LOW  
 EUT Pol :H Plan  
 Test Channel :5755 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11510.00	Average	19.95	25.82	45.77	54.00	-8.23
11510.00	Peak	30.97	25.82	56.79	74.00	-17.21

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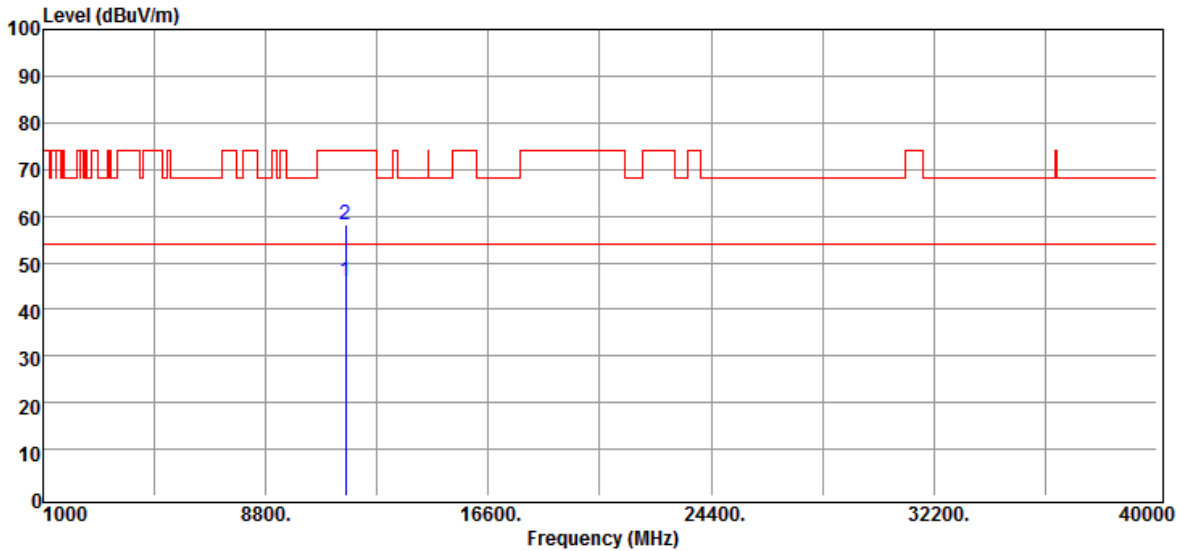
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Operation Mode :802.11n40 / Band 4  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5795 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



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	20.13	25.89	46.02	54.00	-7.98
11590.00	Peak	32.10	25.89	57.99	74.00	-16.01

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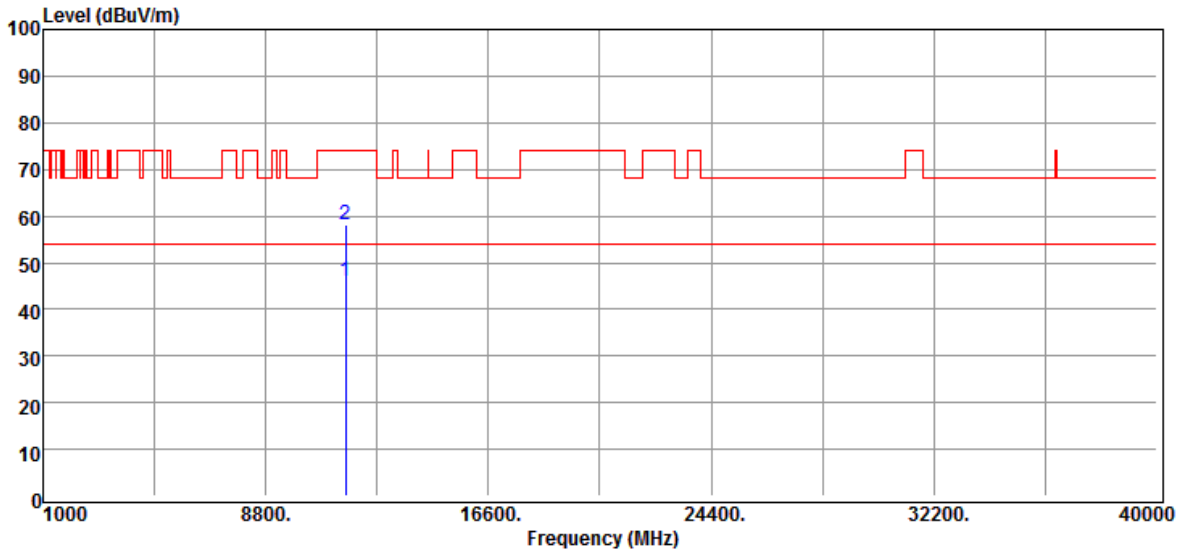
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Operation Mode :802.11n40 / Band 4  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5795 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	20.08	25.89	45.97	54.00	-8.03
11590.00	Peak	32.17	25.89	58.06	74.00	-15.94

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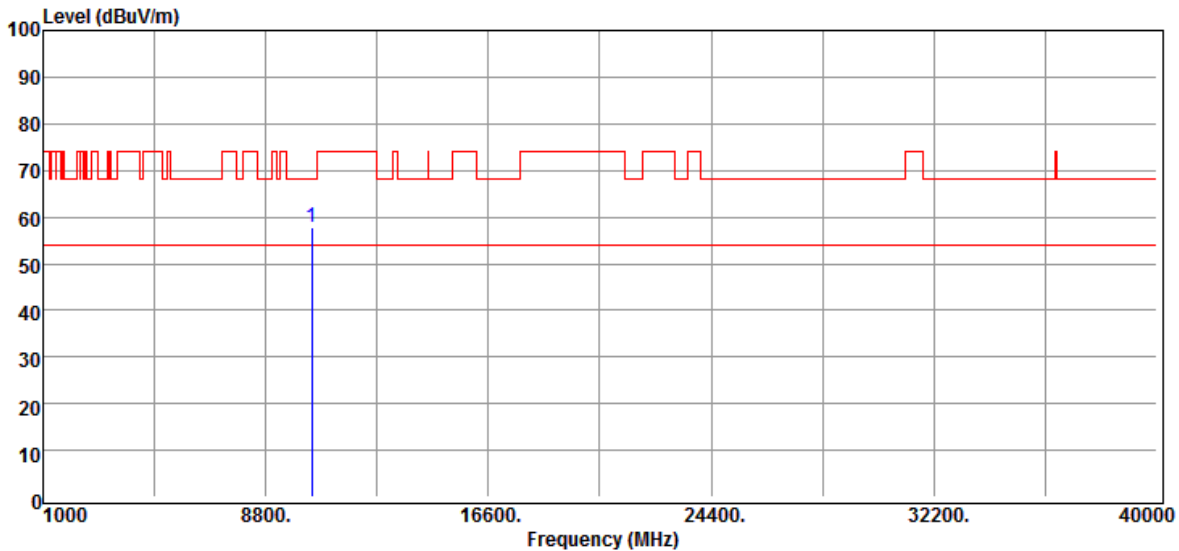
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode	:802.11ac80 / Band 1	Test Date	:2018-07-20
Test Mode	:TX CH LOW	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5210 MHz	Engineer	:Enzo



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	31.05	26.87	57.92	68.20	-10.28

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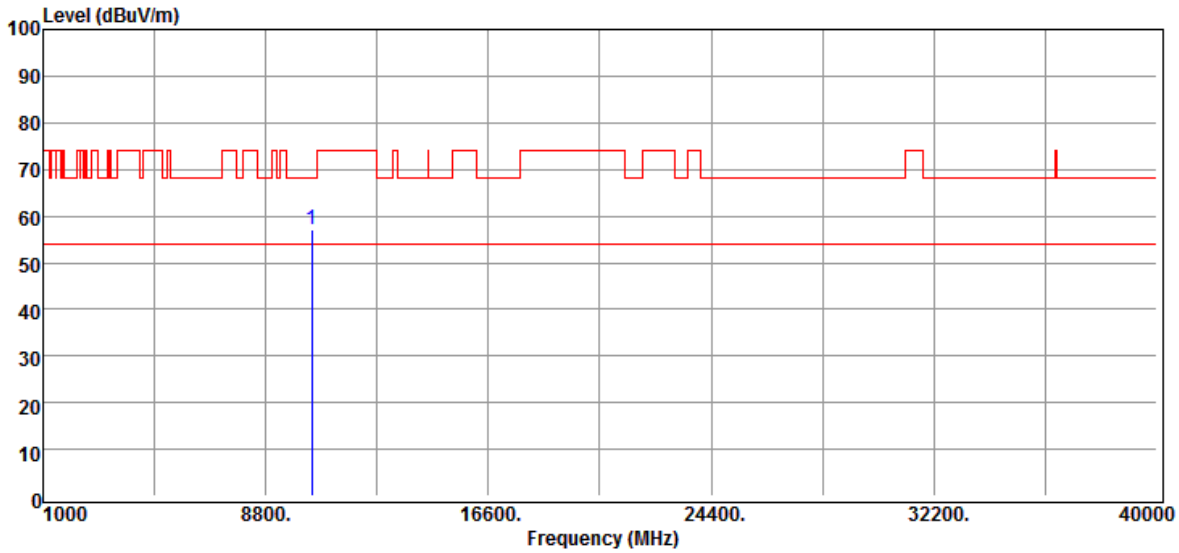
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Operation Mode :802.11ac80 / Band 1  
 Test Mode :TX CH LOW  
 EUT Pol :H Plan  
 Test Channel :5210 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10420.00	Peak	30.14	26.87	57.01	68.20	-11.19

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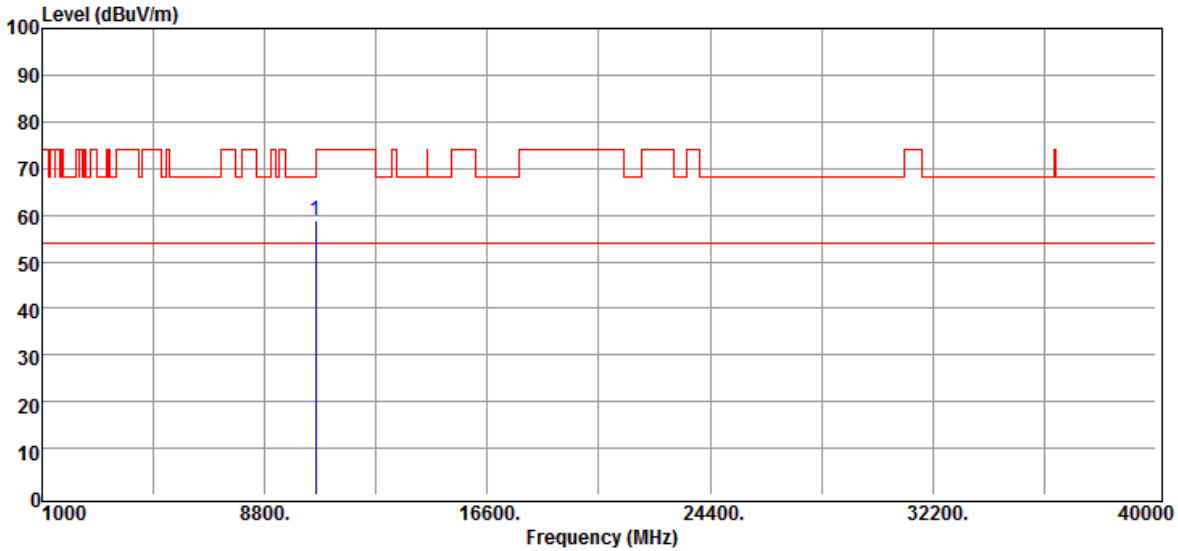
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**Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz**

Operation Mode	:802.11ac80 / Band 2	Test Date	:2018-07-20
Test Mode	:TX CH HIGH	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5290 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	Peak	31.47	27.22	58.69	68.20	-9.51

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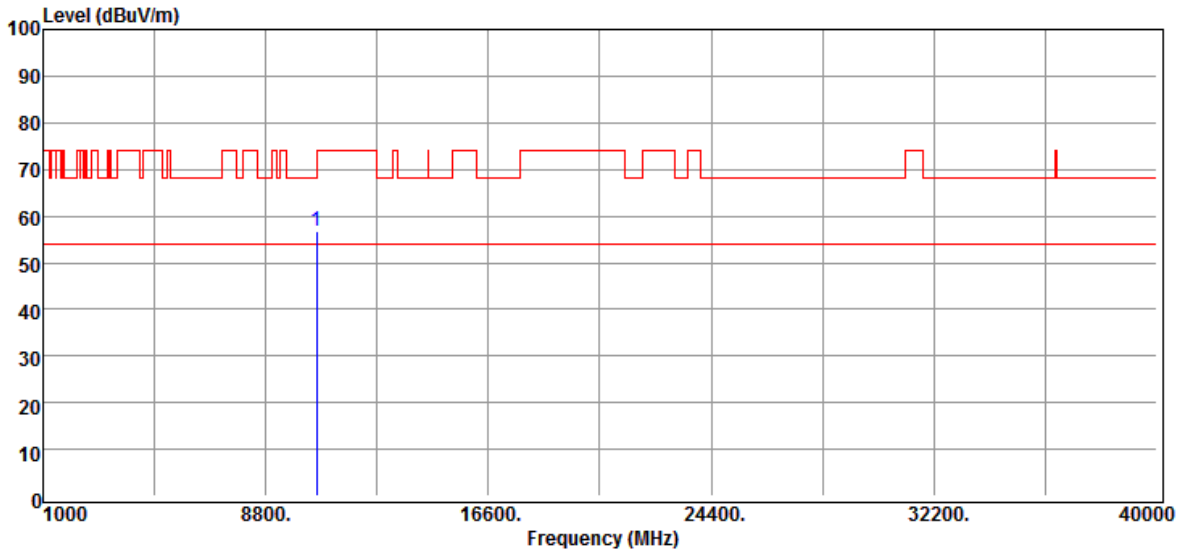
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Operation Mode :802.11ac80 / Band 2  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5290 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10580.00	Peak	29.44	27.22	56.66	68.20	-11.54

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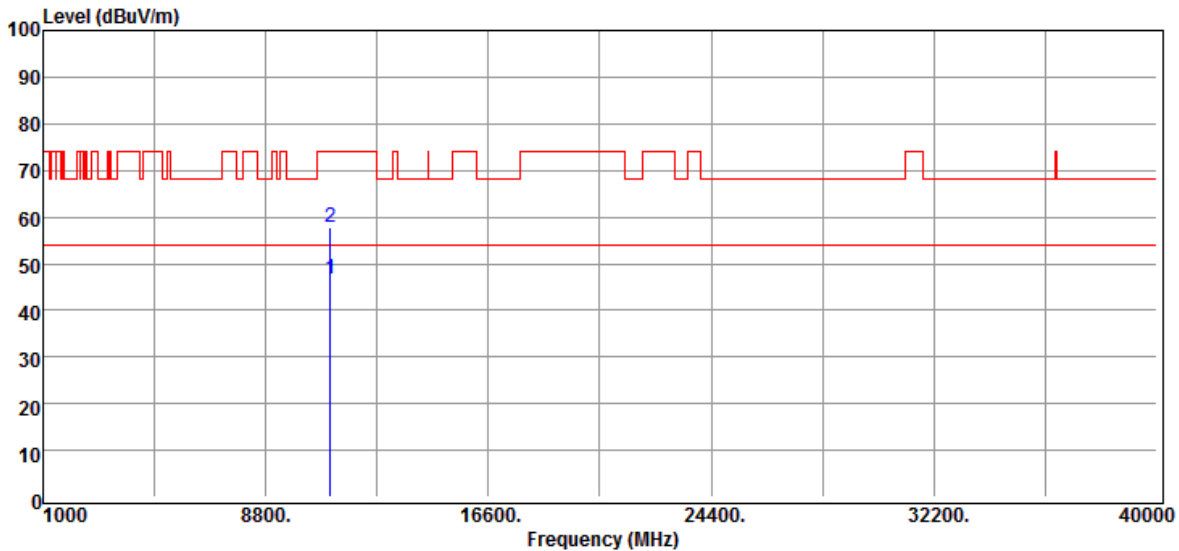
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-07-20
Test Mode	:TX CH LOW	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5530 MHz	Engineer	:Enzo



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	19.77	26.94	46.71	54.00	-7.29
11060.00	Peak	30.92	26.94	57.86	74.00	-16.14

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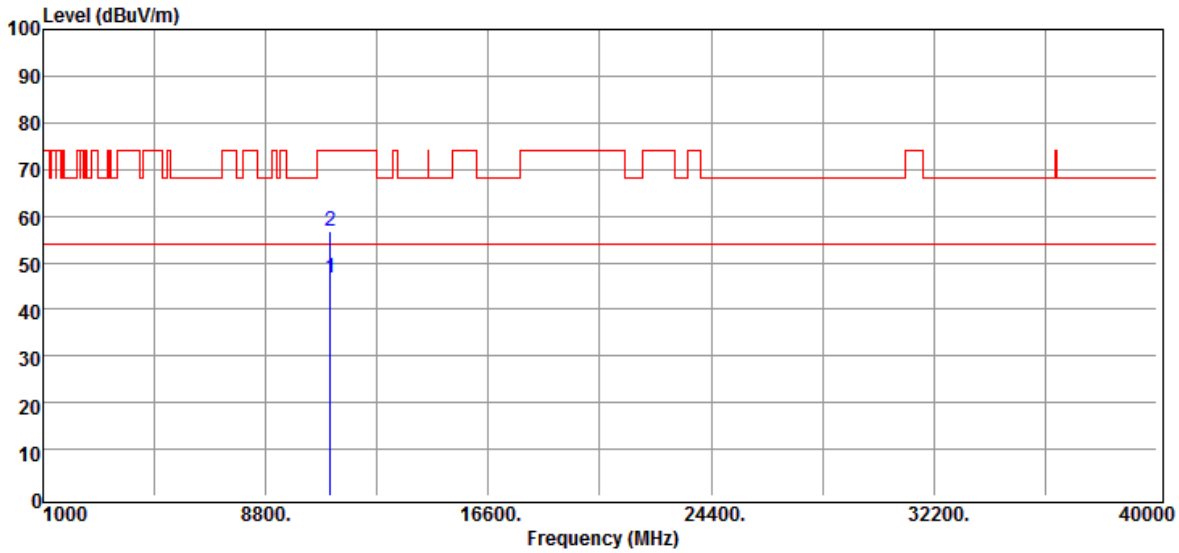
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Operation Mode :802.11ac80 / Band 3  
 Test Mode :TX CH LOW  
 EUT Pol :H Plan  
 Test Channel :5530 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	19.73	26.94	46.67	54.00	-7.33
11060.00	Peak	29.97	26.94	56.91	74.00	-17.09

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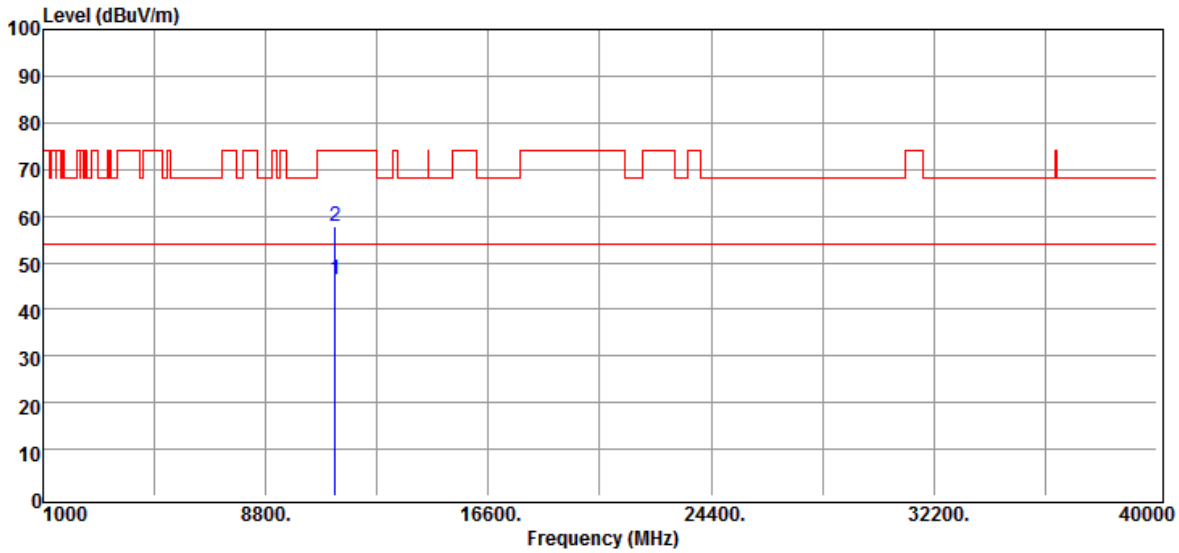
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Operation Mode :802.11ac80 / Band 3  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5610 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11220.00	Average	19.87	26.52	46.39	54.00	-7.61
11220.00	Peak	31.36	26.52	57.88	74.00	-16.12

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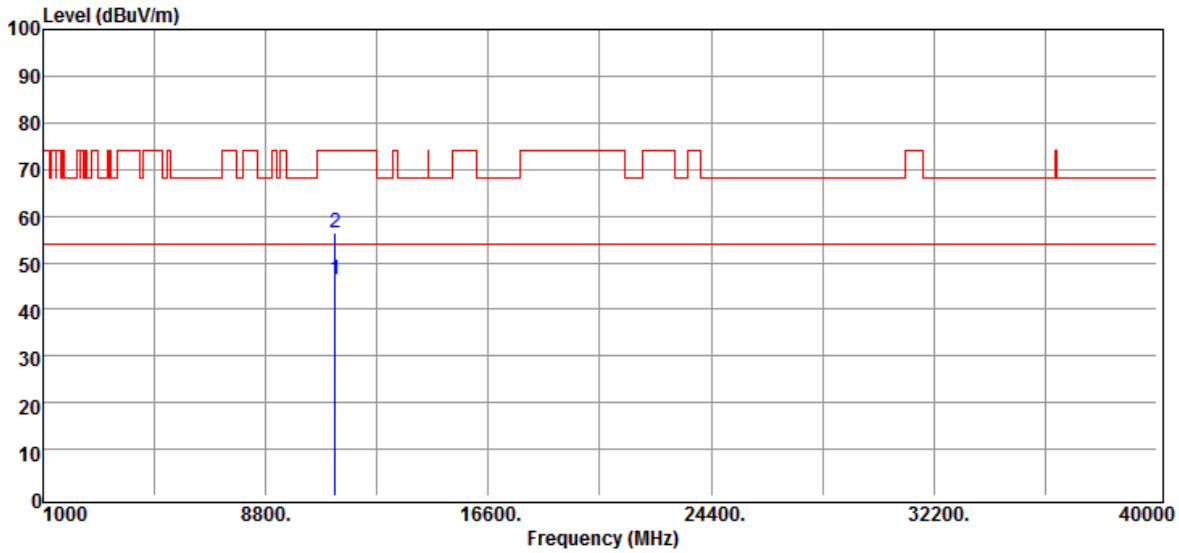
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Operation Mode :802.11ac80 / Band 3  
 Test Mode :TX CH MID  
 EUT Pol :H Plan  
 Test Channel :5610 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	19.68	26.52	46.20	54.00	-7.80
11220.00	Peak	30.04	26.52	56.56	74.00	-17.44

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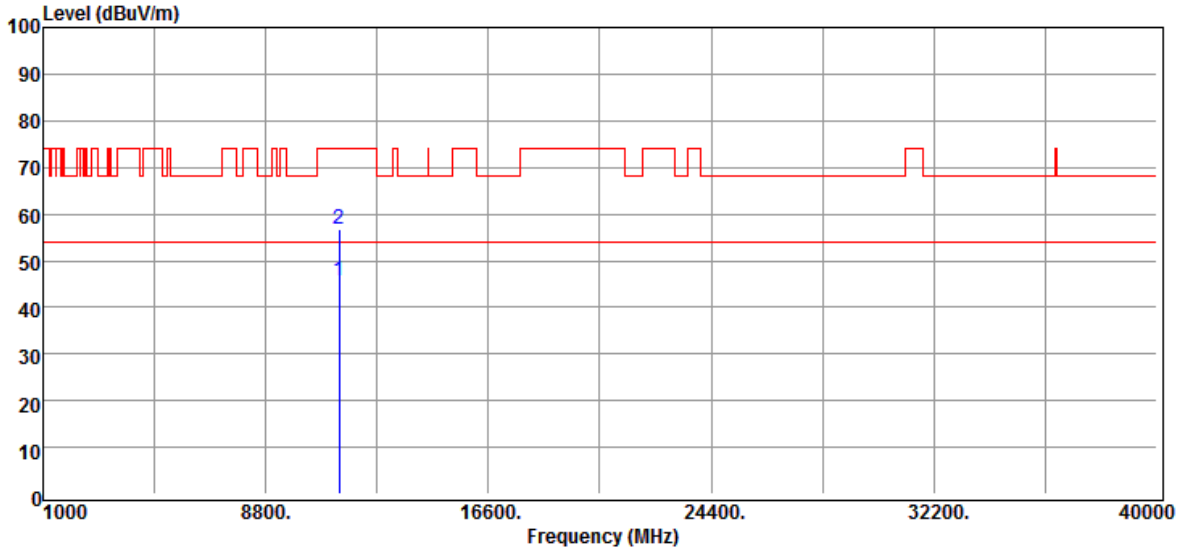
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Operation Mode :802.11ac80 / Band 3  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5690 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11380.00	Average	19.62	26.11	45.73	54.00	-8.27
11380.00	Peak	30.48	26.11	56.59	74.00	-17.41

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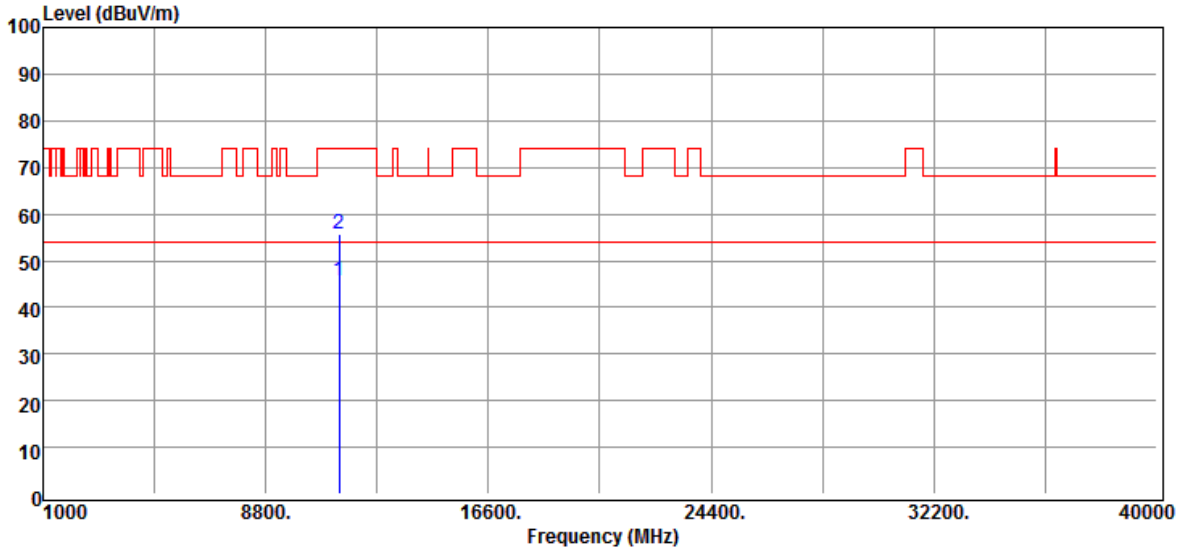
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Operation Mode :802.11ac80 / Band 3  
 Test Mode :TX CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5690 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	19.63	26.11	45.74	54.00	-8.26
11380.00	Peak	29.61	26.11	55.72	74.00	-18.28

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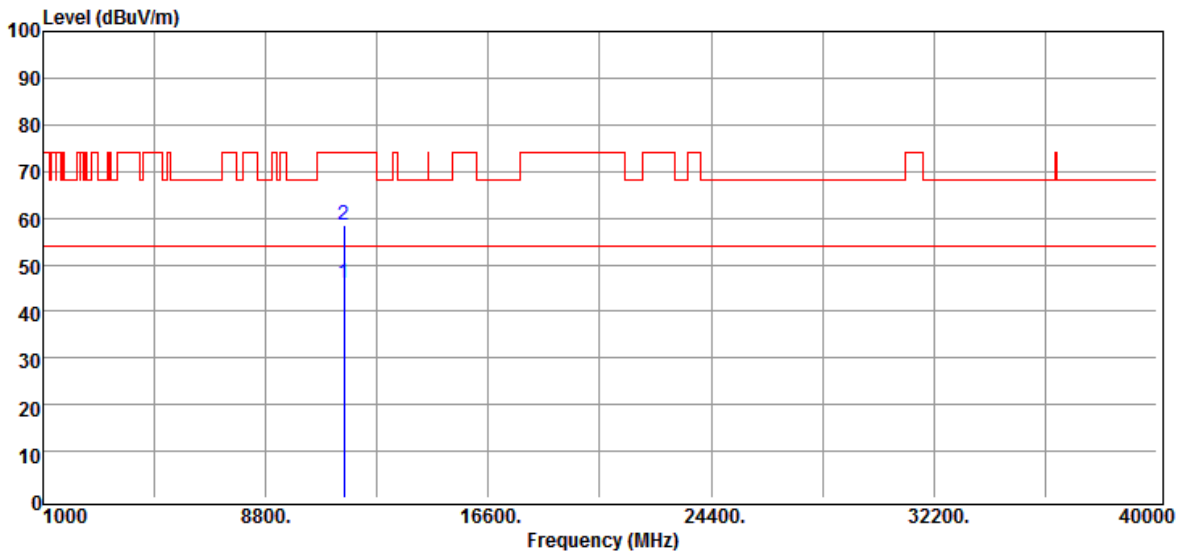
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**Radiated Spurious Emission Measurement Result 802.11ac VHT80,**

Operation Mode	:802.11ac80 / Band 4	Test Date	:2018-07-20
Test Mode	:TX CH LOW	Temp./Humi.	:26/56
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5775 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11550.00	Average	20.17	25.85	46.02	54.00	-7.98
11550.00	Peak	32.66	25.85	58.51	74.00	-15.49

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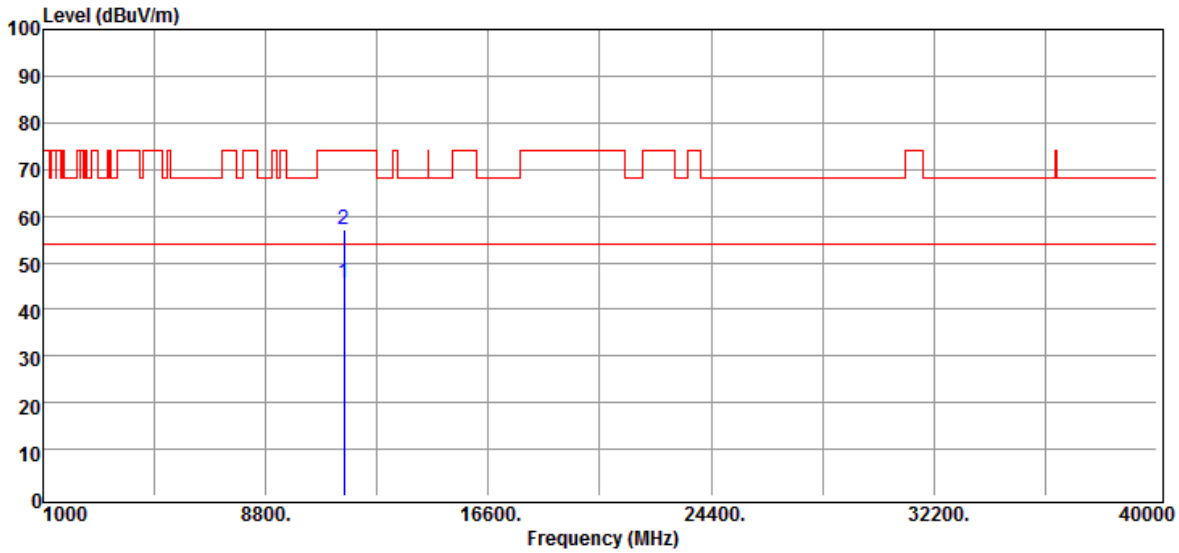
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Operation Mode :802.11ac80 / Band 4  
 Test Mode :TX CH LOW  
 EUT Pol :H Plan  
 Test Channel :5775 MHz

Test Date :2018-07-20  
 Temp./Humi. :26/56  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11550.00	Average	19.97	25.85	45.82	54.00	-8.18
11550.00	Peak	31.31	25.85	57.16	74.00	-16.84

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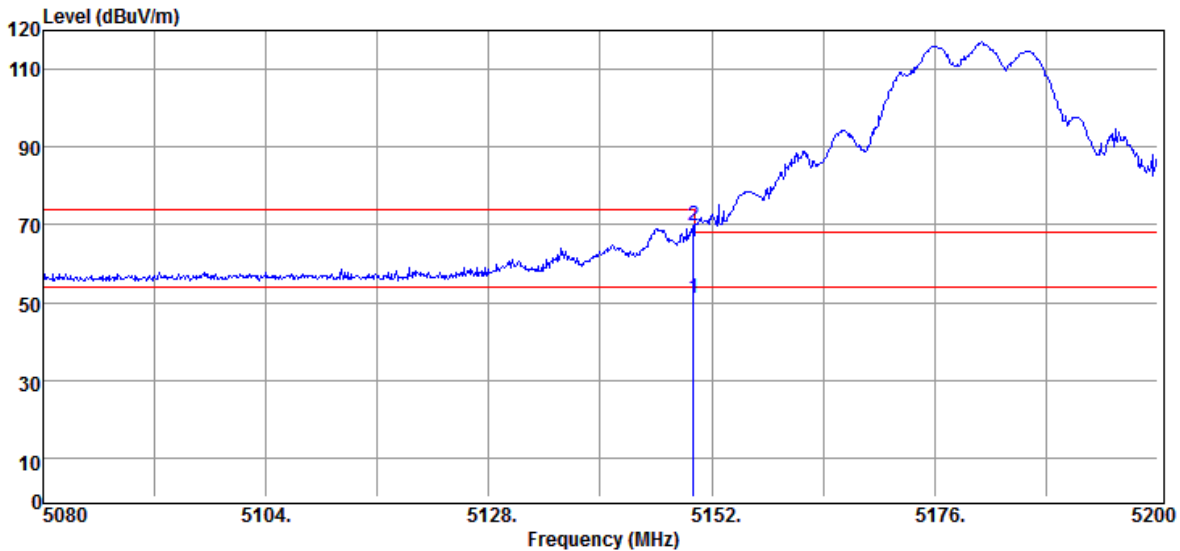
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**Band edge falling to restricted band**

**802.11a mode**

Operation Mode :802.11a / Band 1  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5180 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5150.00	Average	37.40	13.65	51.05	54.00	-2.95
5150.00	Peak	55.91	13.65	69.56	74.00	-4.44

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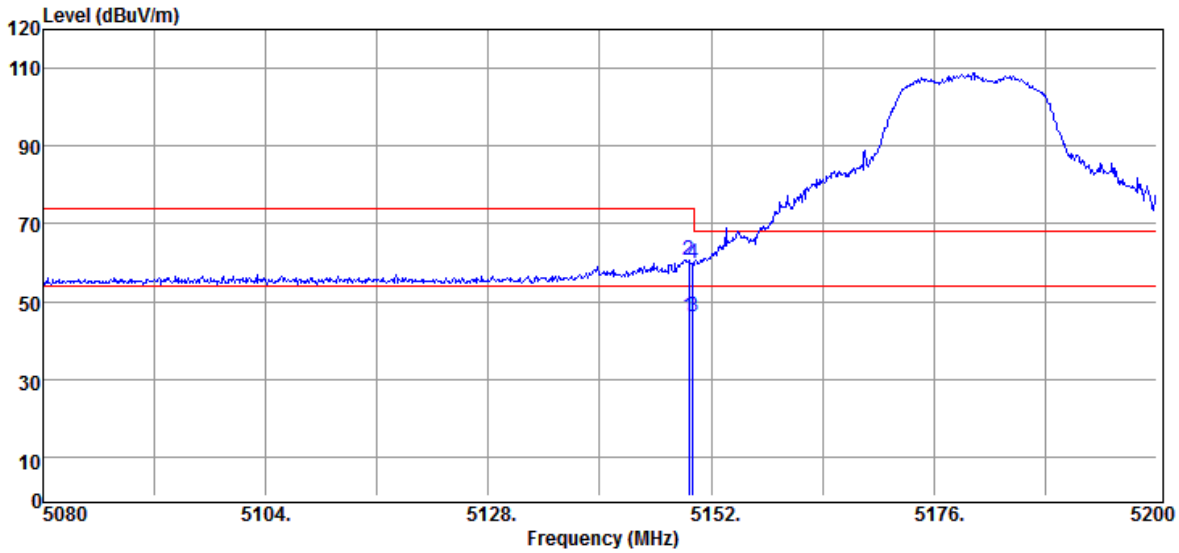
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Operation Mode :802.11a / Band 1  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5180 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5149.60	Average	32.33	13.64	45.97	54.00	-8.03
5149.60	Peak	47.04	13.64	60.68	74.00	-13.32
5150.00	Average	32.35	13.65	46.00	54.00	-8.00
5150.00	Peak	46.28	13.65	59.93	74.00	-14.07

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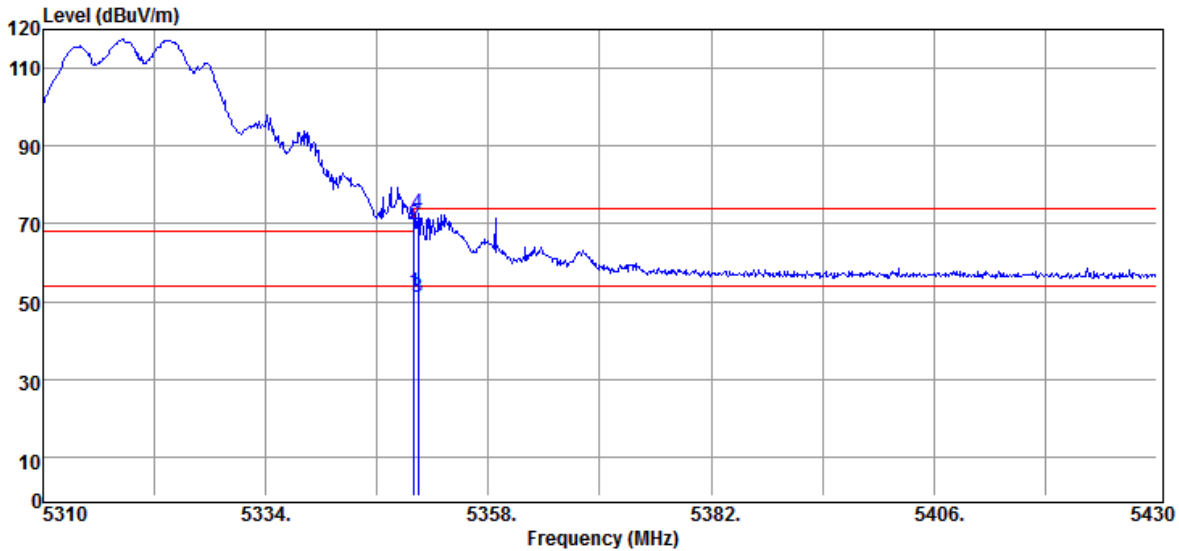
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Operation Mode :802.11a / Band 2  
 Test Mode :BE CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5320 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	38.13	14.16	52.29	54.00	-1.71
5350.00	Peak	55.52	14.16	69.68	74.00	-4.32
5350.44	Average	37.08	14.17	51.25	54.00	-2.75
5350.44	Peak	58.53	14.17	72.70	74.00	-1.30

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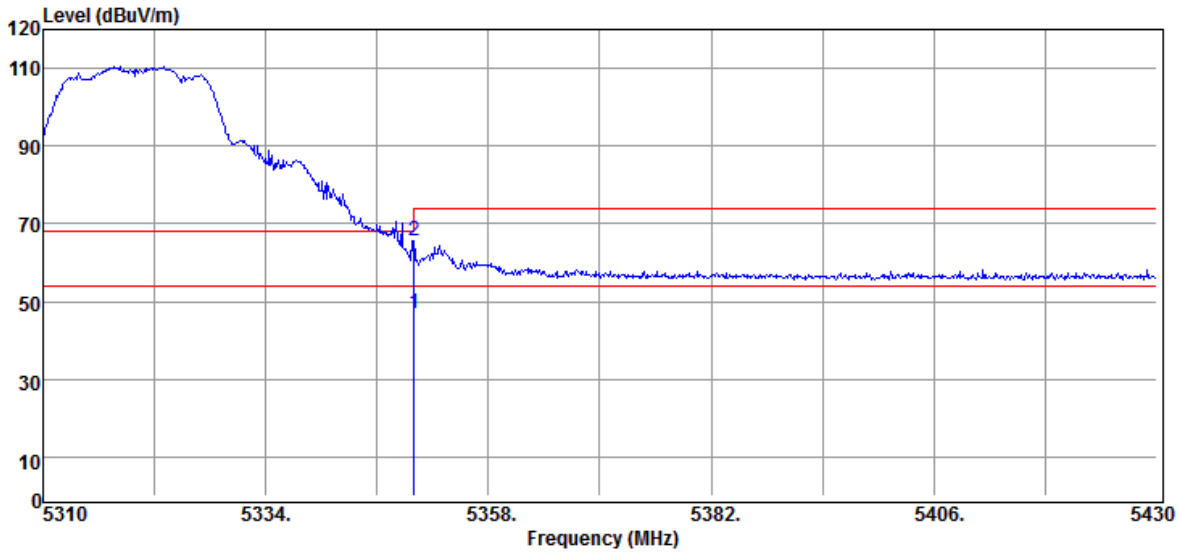
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Operation Mode :802.11a / Band 2  
 Test Mode :BE CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5320 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	32.61	14.16	46.77	54.00	-7.23
5350.00	Peak	51.37	14.16	65.53	74.00	-8.47

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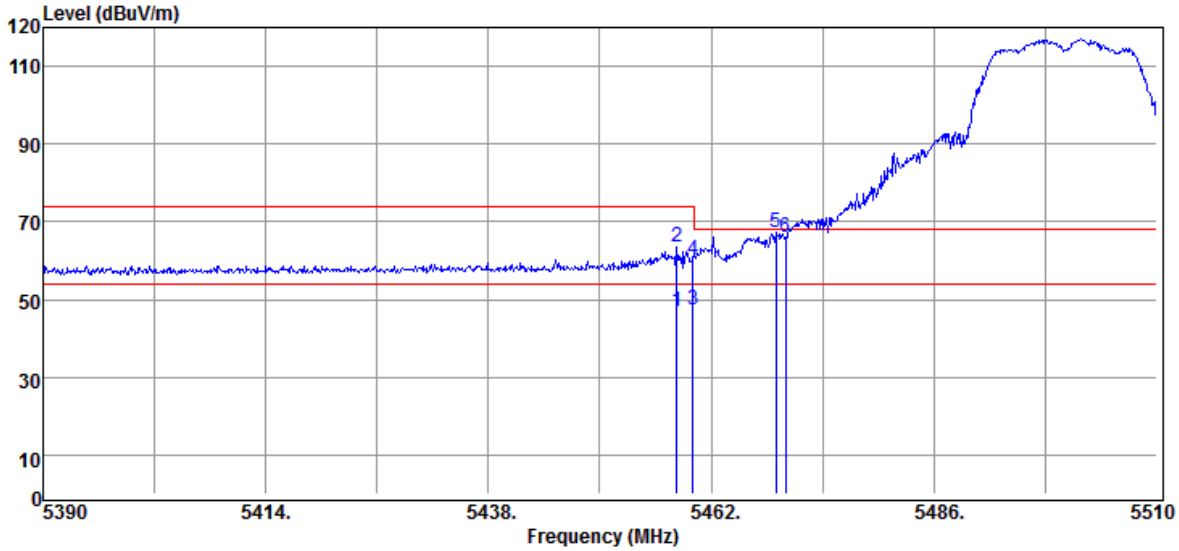
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Operation Mode :802.11a / Band 3  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5500 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.28	Average	32.67	14.31	46.98	54.00	-7.02
5458.28	Peak	49.05	14.31	63.36	74.00	-10.64
5460.00	Average	33.21	14.31	47.52	54.00	-6.48
5460.00	Peak	46.07	14.31	60.38	74.00	-13.62
5468.96	Peak	52.80	14.32	67.12	68.20	-1.08
5470.04	Peak	51.67	14.31	65.98	68.20	-2.22

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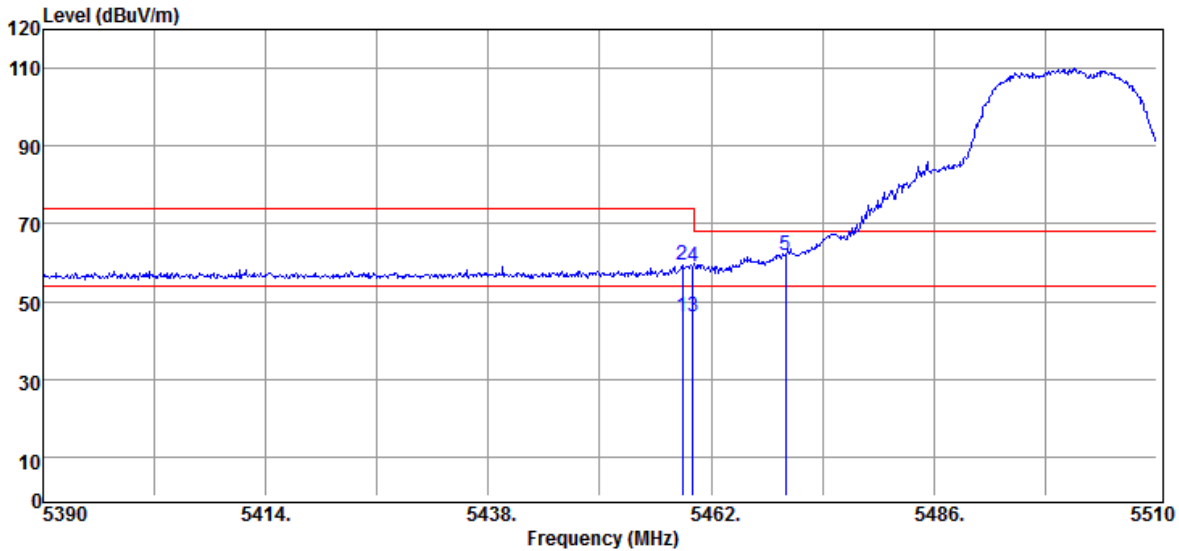
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Operation Mode :802.11a / Band 3  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5500 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.88	Average	31.81	14.31	46.12	54.00	-7.88
5458.88	Peak	45.15	14.31	59.46	74.00	-14.54
5460.00	Average	31.84	14.31	46.15	54.00	-7.85
5460.00	Peak	44.58	14.31	58.89	74.00	-15.11
5470.00	Peak	47.70	14.31	62.01	68.20	-6.19

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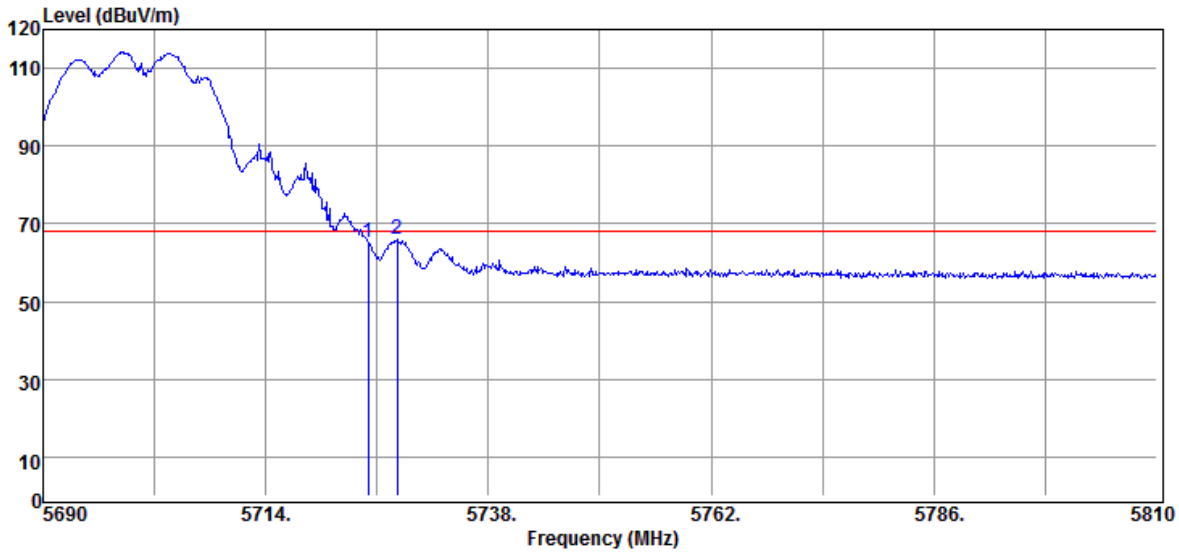
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Operation Mode	:802.11a / Band 3	Test Date	:2018-07-19
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5725.00	Peak	50.89	14.50	65.39	68.20	-2.81
5728.16	Peak	51.64	14.50	66.14	68.20	-2.06

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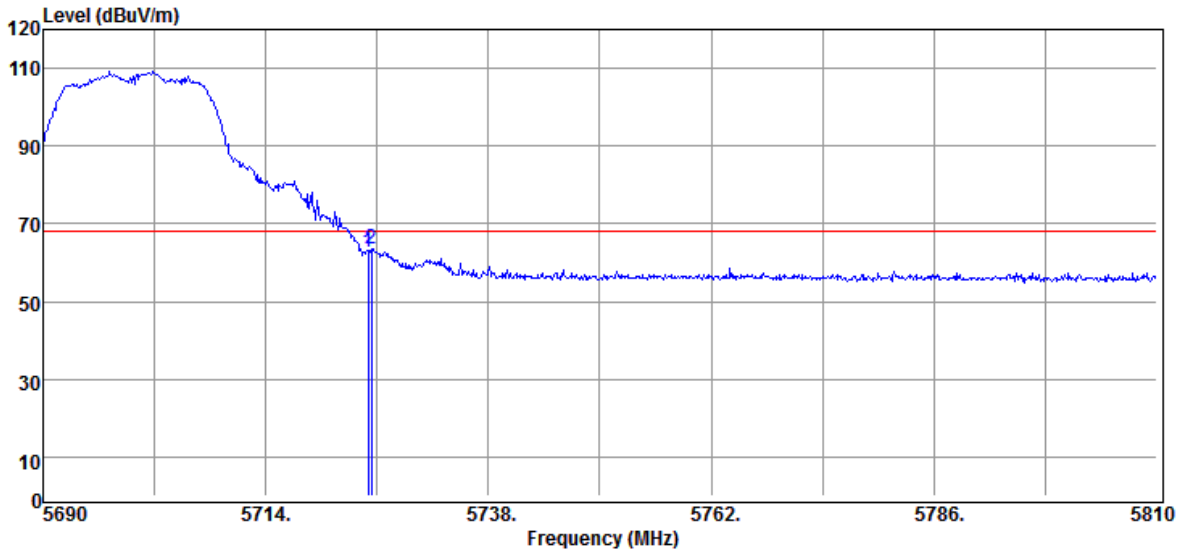
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Operation Mode :802.11a / Band 3  
 Test Mode :BE CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5700 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5725.00	Peak	48.26	14.50	62.76	68.20	-5.44
5725.40	Peak	48.85	14.50	63.35	68.20	-4.85

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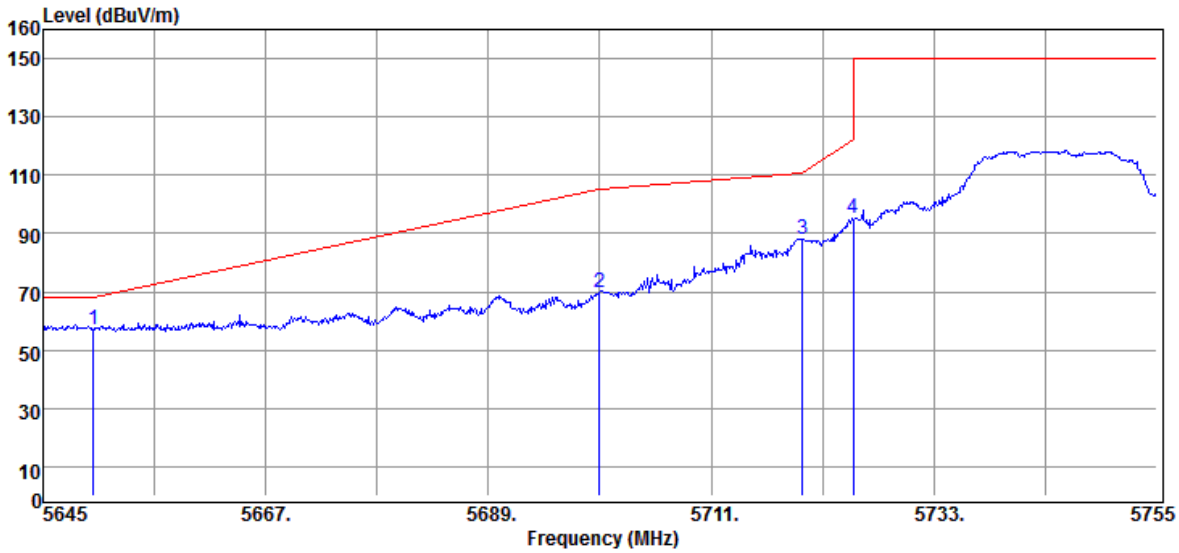
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Operation Mode :802.11a / Band 4  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5745 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



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	42.74	14.42	57.16	68.20	-11.04
5700.00	Peak	55.46	14.47	69.93	105.20	-35.27
5720.00	Peak	73.64	14.49	88.13	110.80	-22.67
5725.00	Peak	80.79	14.50	95.29	122.20	-26.91

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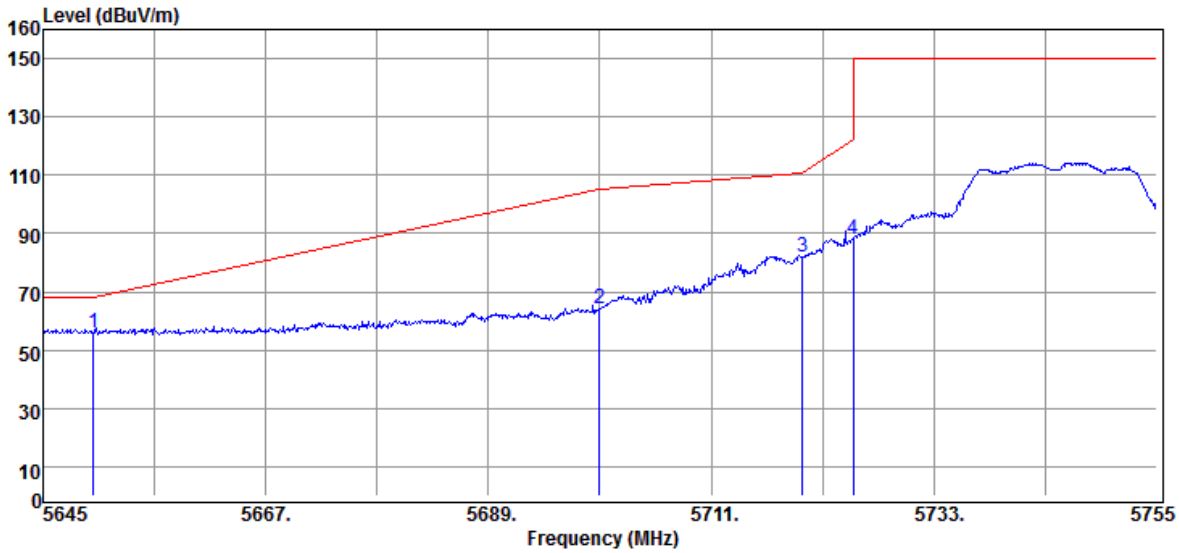
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Operation Mode :802.11a / Band 4  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5745 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	41.48	14.42	55.90	68.20	-12.30
5700.00	Peak	49.71	14.47	64.18	105.20	-41.02
5720.00	Peak	67.58	14.49	82.07	110.80	-28.73
5725.00	Peak	73.59	14.50	88.09	122.20	-34.11

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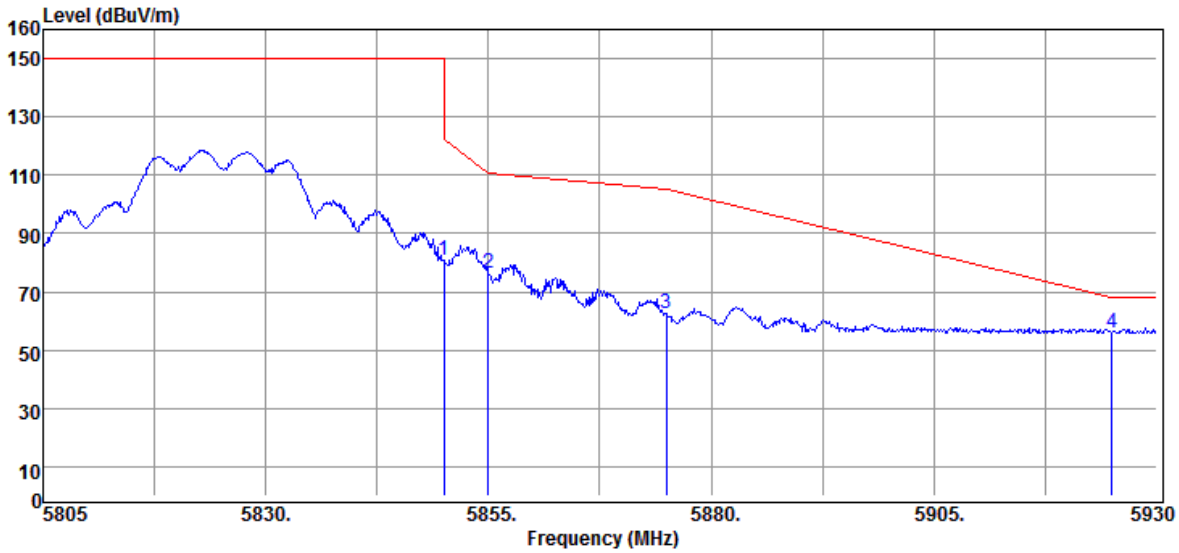
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Operation Mode :802.11a / Band 4  
 Test Mode :BE CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5825 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	Peak	66.29	14.72	81.01	122.20	-41.19
5855.00	Peak	61.66	14.73	76.39	110.80	-34.41
5875.00	Peak	47.61	14.78	62.39	105.20	-42.81
5925.00	Peak	40.97	14.91	55.88	68.20	-12.32

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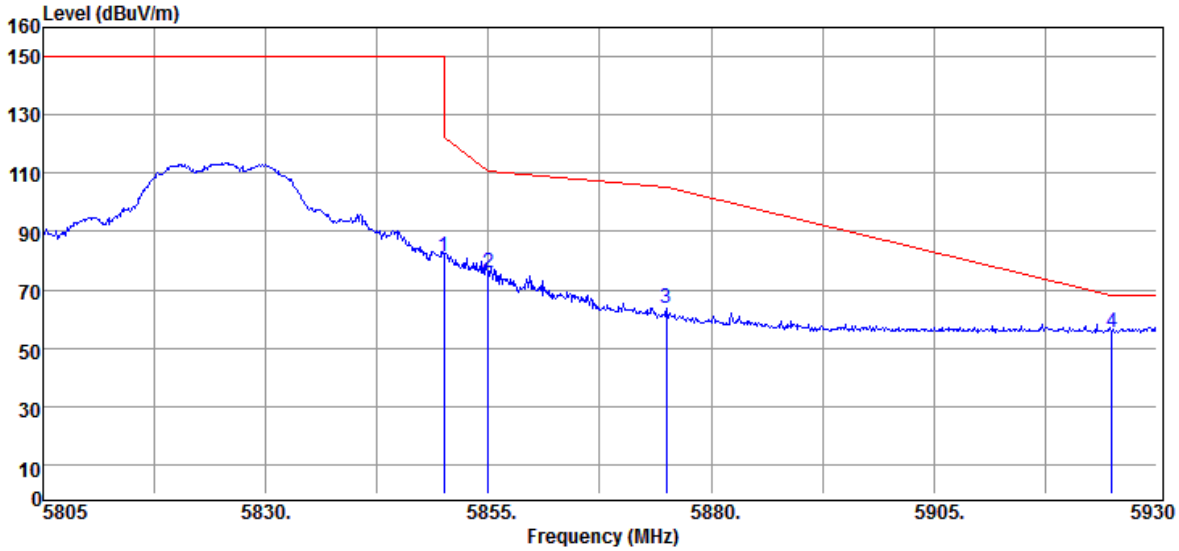
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Operation Mode :802.11a / Band 4  
 Test Mode :BE CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5825 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	Peak	66.65	14.72	81.37	122.20	-40.83
5855.00	Peak	60.88	14.73	75.61	110.80	-35.19
5875.00	Peak	48.77	14.78	63.55	105.20	-41.65
5925.00	Peak	40.59	14.91	55.50	68.20	-12.70

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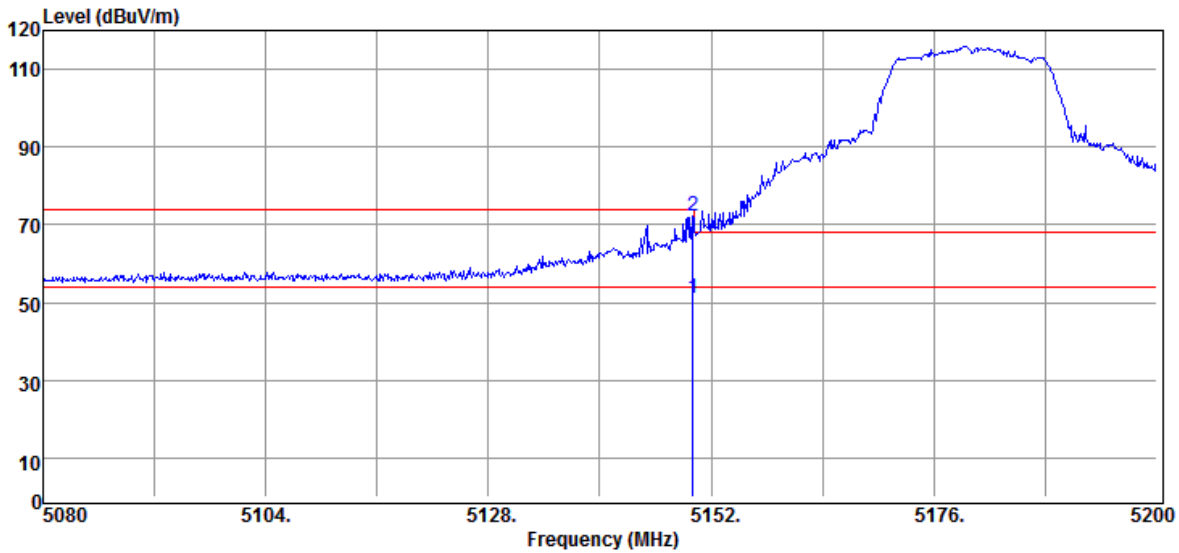
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**802.11n20 HT mode**

Operation Mode :802.11n20 / Band 1  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5180 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	37.23	13.65	50.88	54.00	-3.12
5150.00	Peak	58.47	13.65	72.12	74.00	-1.88

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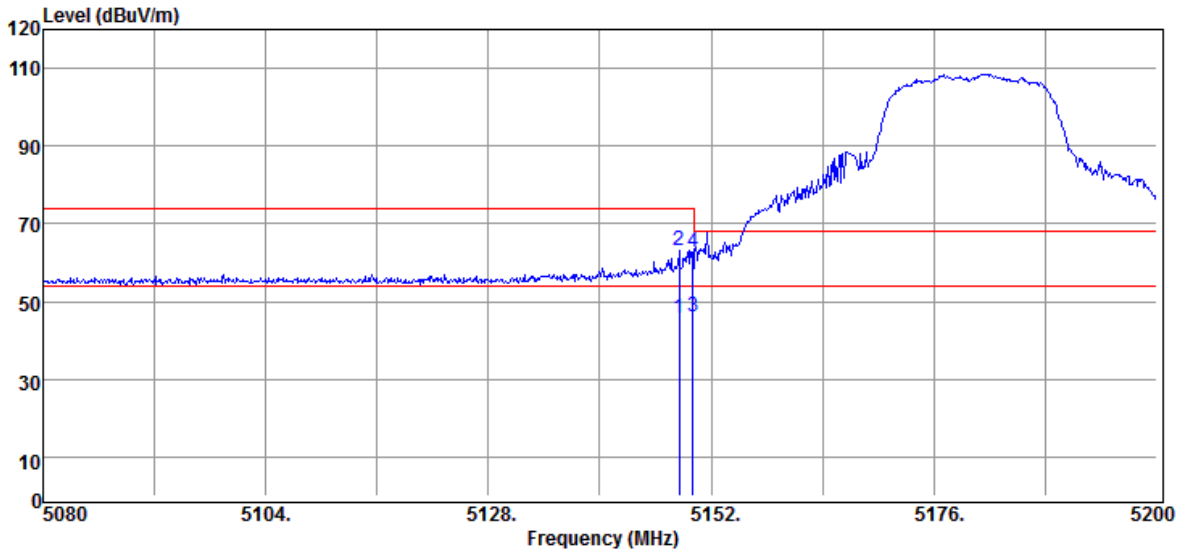
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Operation Mode :802.11n20 / Band 1  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5180 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5148.52	Average	32.20	13.63	45.83	54.00	-8.17
5148.52	Peak	49.40	13.63	63.03	74.00	-10.97
5150.00	Average	32.34	13.65	45.99	54.00	-8.01
5150.00	Peak	48.96	13.65	62.61	74.00	-11.39

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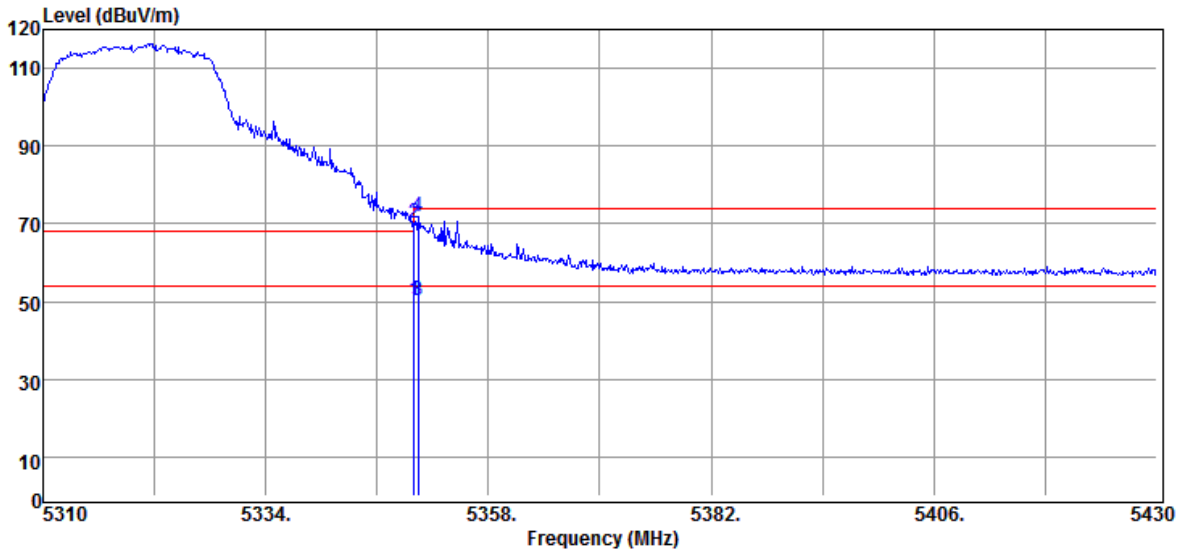
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Operation Mode :802.11n20 / Band 2  
 Test Mode :BE CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5320 MHz

Test Date :2018-07-20  
 Temp./Humi. :25/60  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	36.28	14.16	50.44	54.00	-3.56
5350.00	Peak	56.09	14.16	70.25	74.00	-3.75
5350.44	Average	35.98	14.17	50.15	54.00	-3.85
5350.44	Peak	57.85	14.17	72.02	74.00	-1.98

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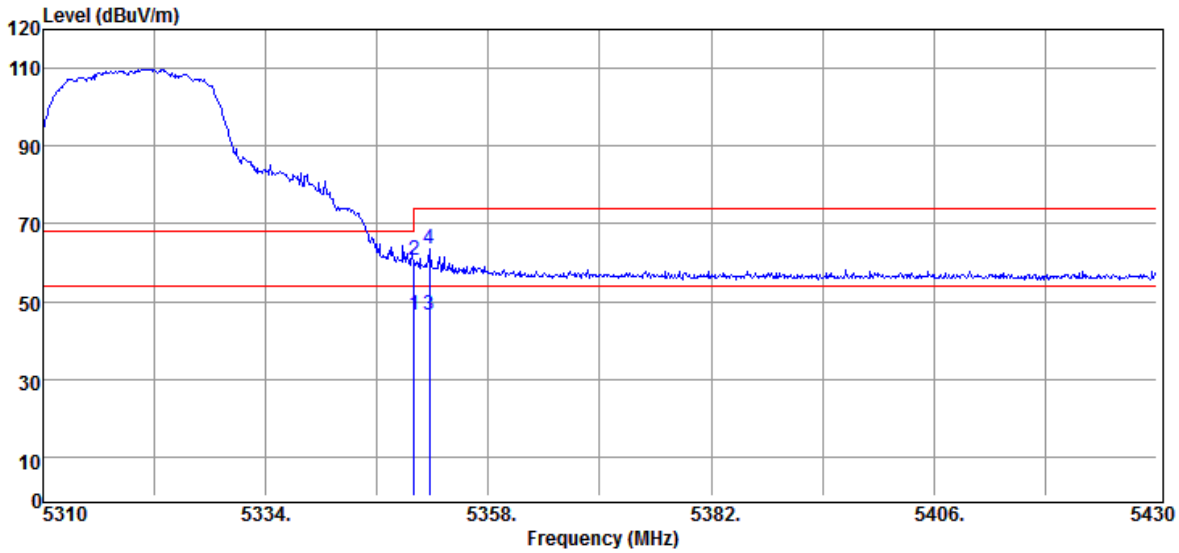
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Operation Mode :802.11n20 / Band 2  
 Test Mode :BE CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5320 MHz

Test Date :2018-07-20  
 Temp./Humi. :25/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	Average	32.24	14.16	46.40	54.00	-7.60
5350.00	Peak	46.43	14.16	60.59	74.00	-13.41
5351.64	Average	32.19	14.17	46.36	54.00	-7.64
5351.64	Peak	49.20	14.17	63.37	74.00	-10.63

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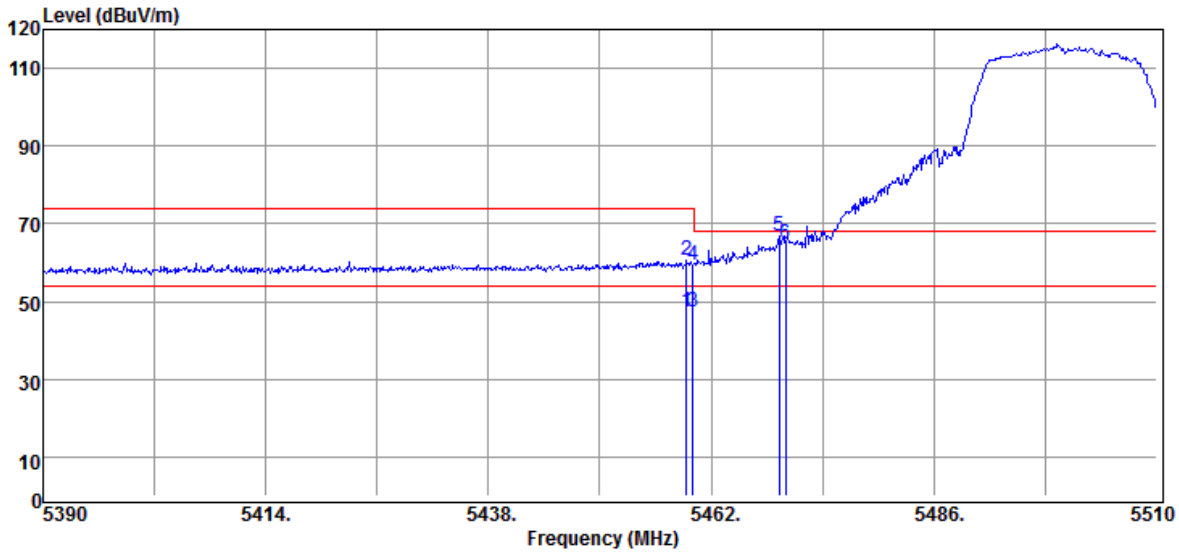
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Member of SGS Group

Operation Mode :802.11n20 / Band 3  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5500 MHz

Test Date :2018-07-20  
 Temp./Humi. :25/60  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5459.36	Average	32.92	14.31	47.23	54.00	-6.77
5459.36	Peak	46.38	14.31	60.69	74.00	-13.31
5460.00	Average	32.94	14.31	47.25	54.00	-6.75
5460.00	Peak	45.11	14.31	59.42	74.00	-14.58
5469.32	Peak	52.59	14.31	66.90	68.20	-1.30
5470.00	Peak	50.38	14.31	64.69	68.20	-3.51

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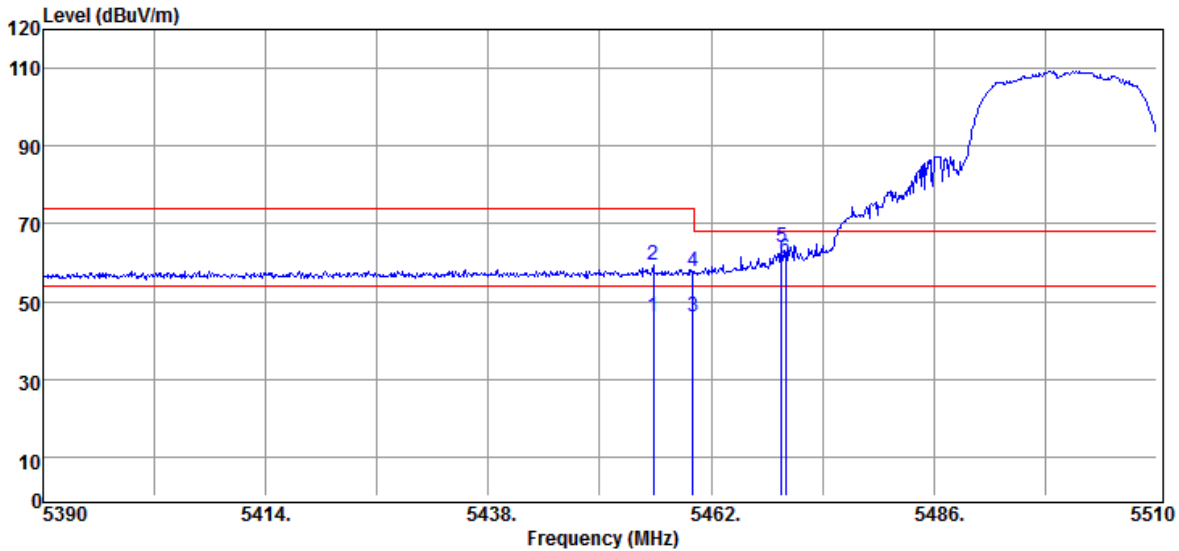
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Operation Mode :802.11n20 / Band 3  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5500 MHz

Test Date :2018-07-20  
 Temp./Humi. :25/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5455.76	Average	31.76	14.32	46.08	54.00	-7.92
5455.76	Peak	44.90	14.32	59.22	74.00	-14.78
5460.00	Average	31.82	14.31	46.13	54.00	-7.87
5460.00	Peak	43.42	14.31	57.73	74.00	-16.27
5469.56	Peak	49.51	14.31	63.82	68.20	-4.38
5470.00	Peak	46.87	14.31	61.18	68.20	-7.02

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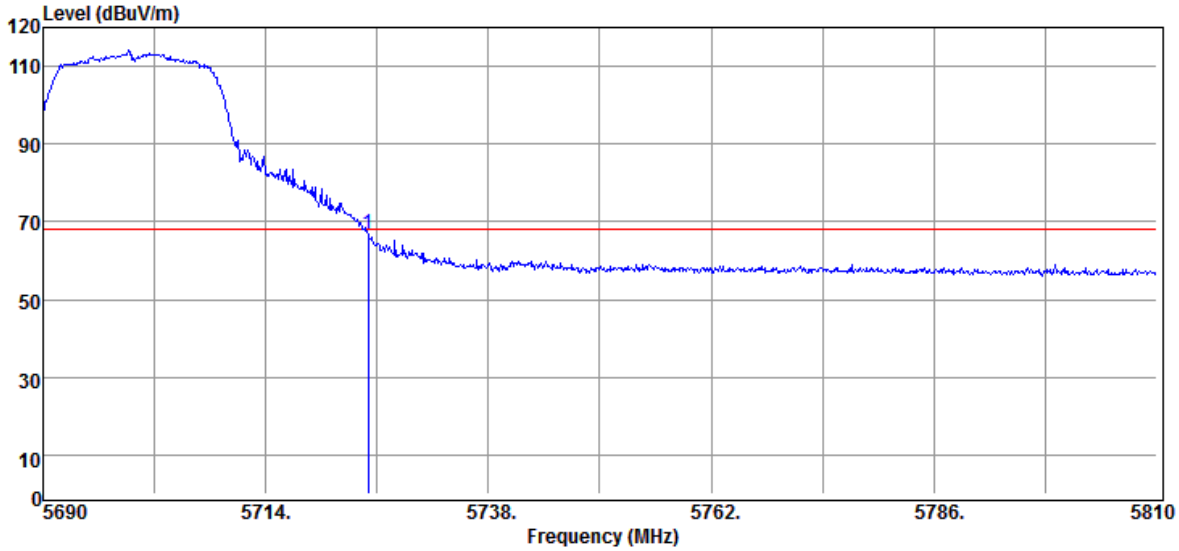
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Member of SGS Group

Operation Mode :802.11n20 / Band 3  
 Test Mode :BE CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5700 MHz

Test Date :2018-07-20  
 Temp./Humi. :25/60  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5725.00	Peak	52.53	14.50	67.03	68.20	-1.17

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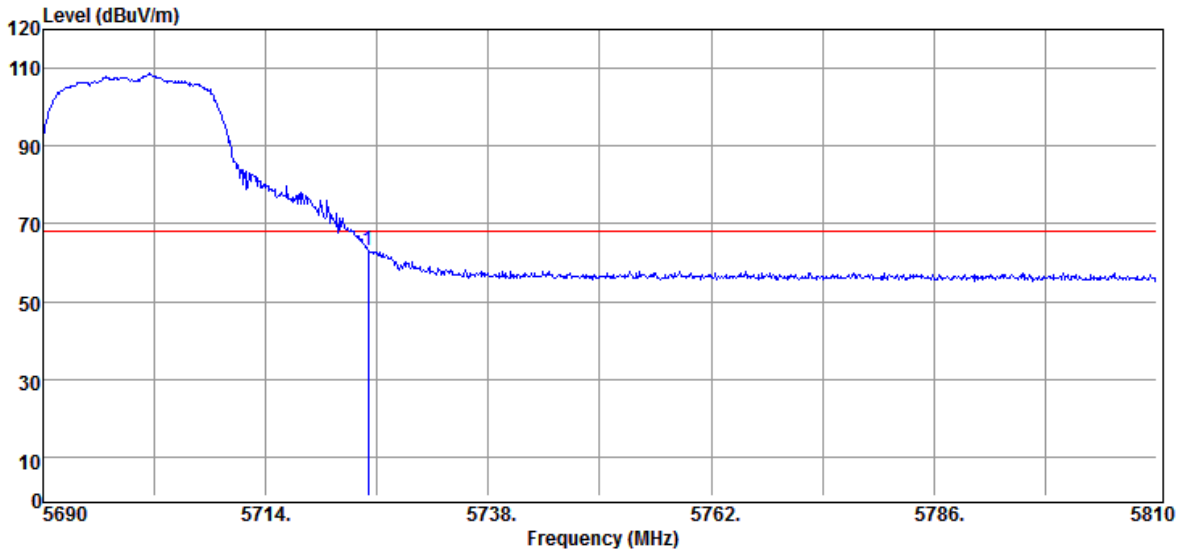
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Operation Mode :802.11n20 / Band 3  
 Test Mode :BE CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5700 MHz

Test Date :2018-07-20  
 Temp./Humi. :25/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5725.00	Peak	48.72	14.50	63.22	68.20	-4.98

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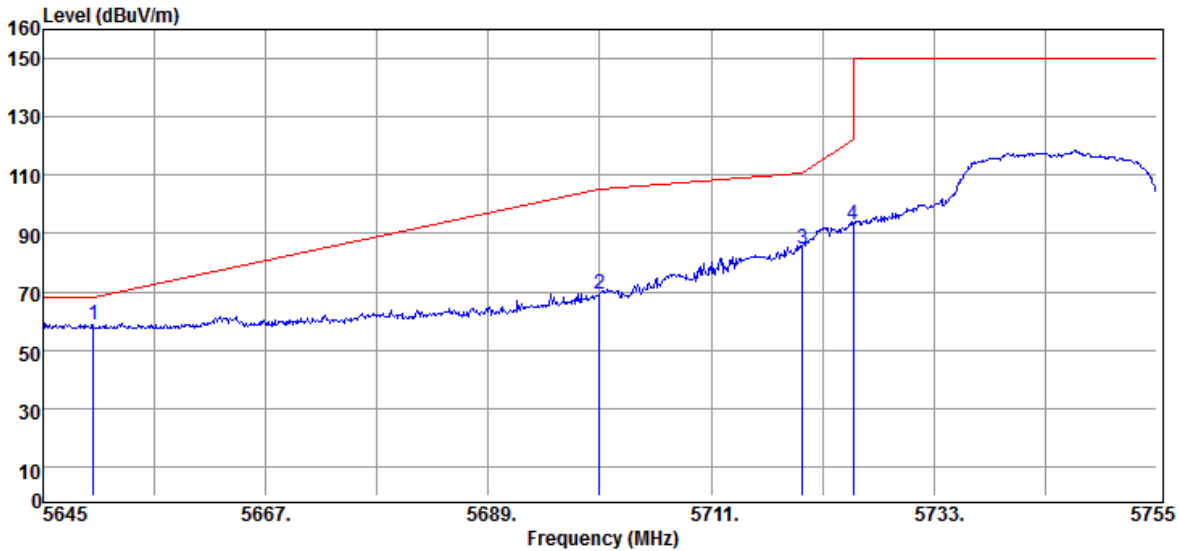
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Operation Mode :802.11n20 / Band 4  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5745 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



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	44.18	14.42	58.60	68.20	-9.60
5700.00	Peak	54.75	14.47	69.22	105.20	-35.98
5720.00	Peak	70.47	14.49	84.96	110.80	-25.84
5725.00	Peak	78.52	14.50	93.02	122.20	-29.18

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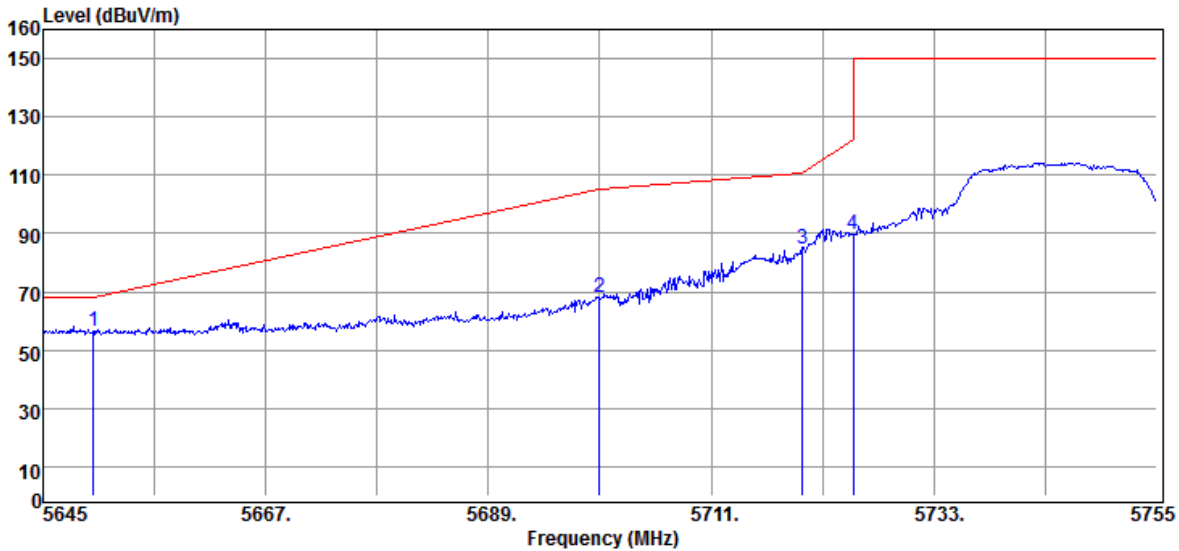
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Operation Mode :802.11n20 / Band 4  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5745 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	41.86	14.42	56.28	68.20	-11.92
5700.00	Peak	53.42	14.47	67.89	105.20	-37.31
5720.00	Peak	70.01	14.49	84.50	110.80	-26.30
5725.00	Peak	75.35	14.50	89.85	122.20	-32.35

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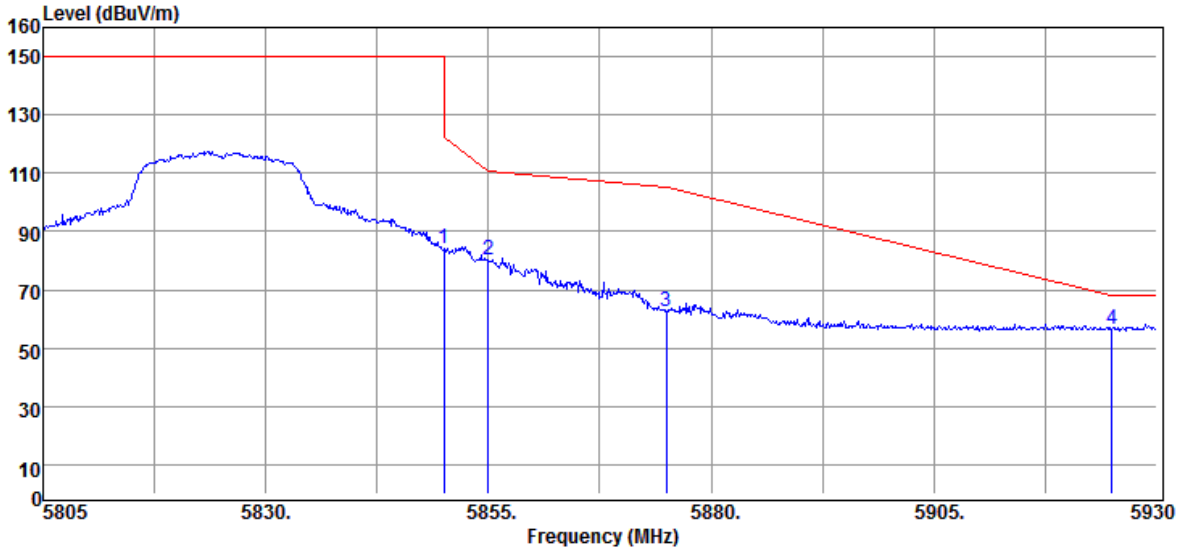
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Operation Mode :802.11n20 / Band 4  
 Test Mode :BE CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5825 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



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	69.59	14.72	84.31	122.20	-37.89
5855.00	Peak	65.41	14.73	80.14	110.80	-30.66
5875.00	Peak	47.63	14.78	62.41	105.20	-42.79
5925.00	Peak	41.80	14.91	56.71	68.20	-11.49

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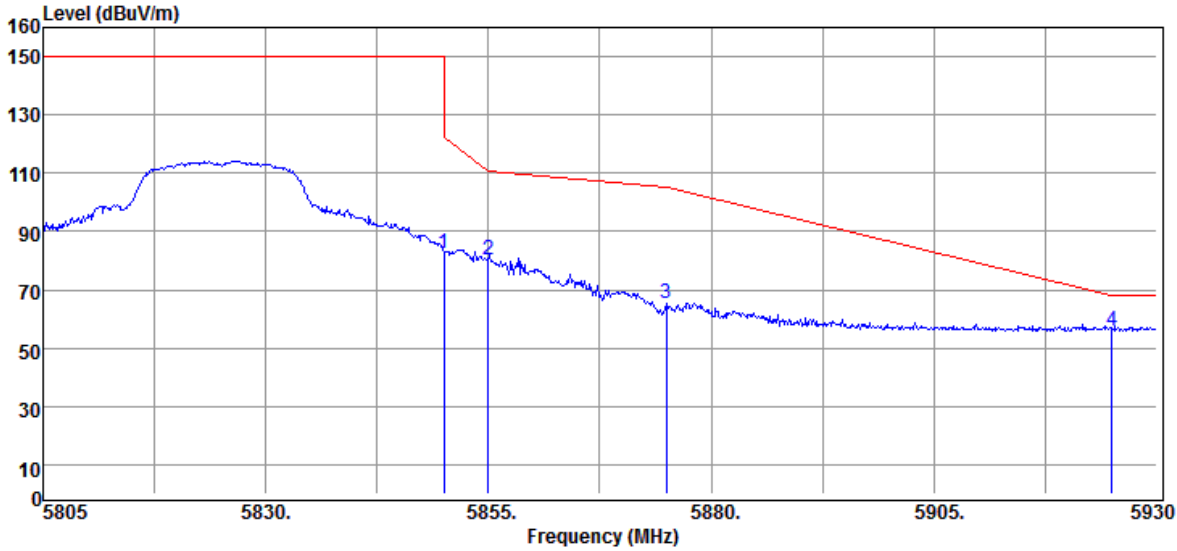
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Operation Mode :802.11n20 / Band 4  
 Test Mode :BE CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5825 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	Peak	67.89	14.72	82.61	122.20	-39.59
5855.00	Peak	65.56	14.73	80.29	110.80	-30.51
5875.00	Peak	50.30	14.78	65.08	105.20	-40.12
5925.00	Peak	41.23	14.91	56.14	68.20	-12.06

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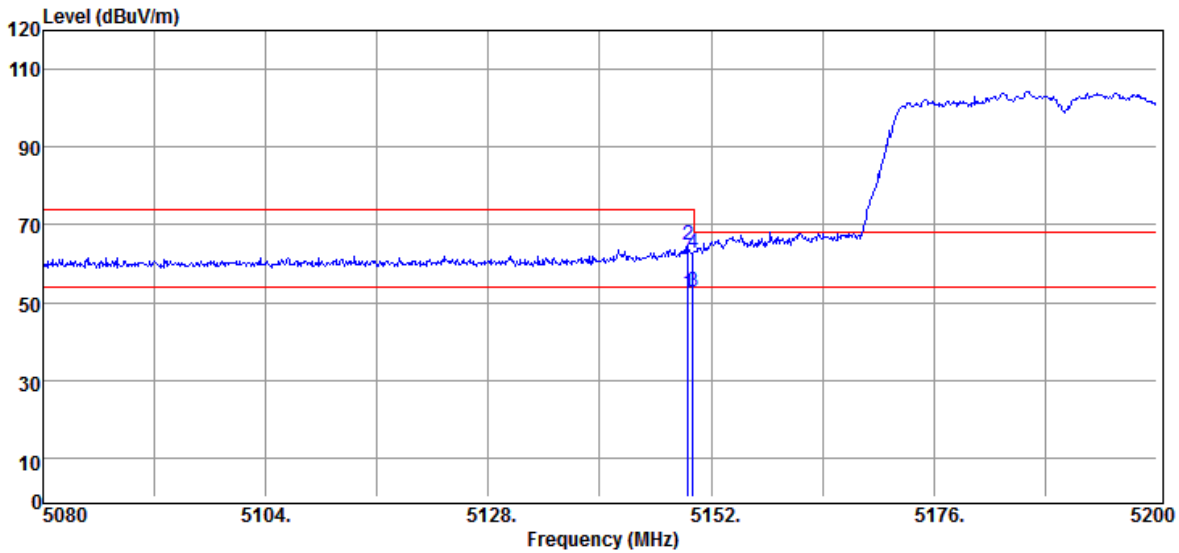
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**802.11n40 HT mode**

Operation Mode :802.11n40/Band 1  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5190 MHz

Test Date :2018-07-12  
 Temp./Humi. :26/60  
 Antenna Pol. :VERTICAL  
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5149.48	Average	38.69	13.64	52.33	54.00	-1.67
5149.48	Peak	51.06	13.64	64.70	74.00	-9.30
5150.00	Average	39.04	13.65	52.69	54.00	-1.31
5150.00	Peak	49.01	13.65	62.66	74.00	-11.34

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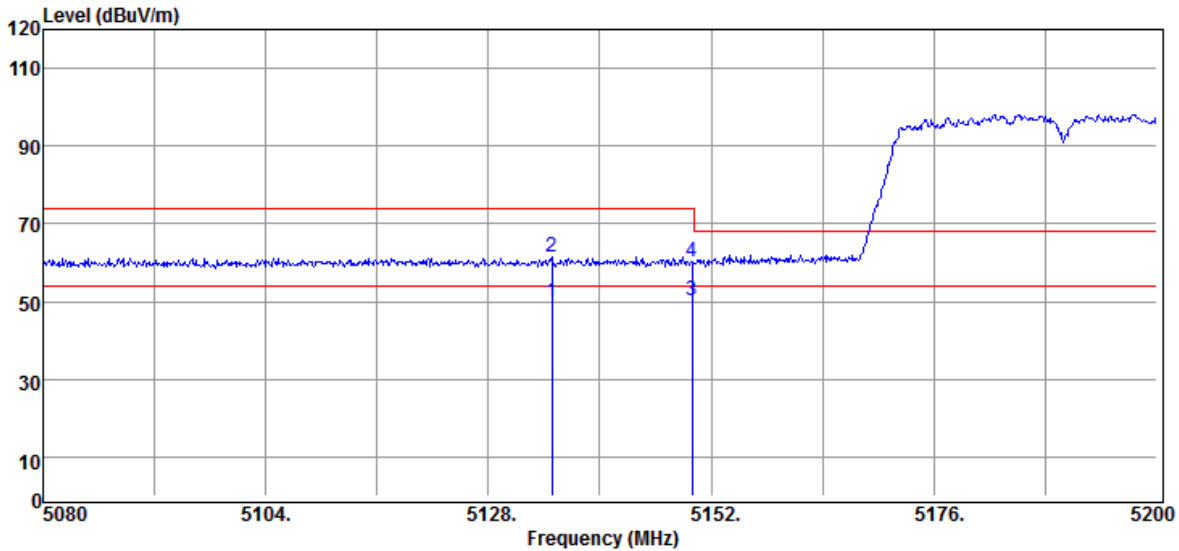
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Operation Mode :802.11n40/Band 1  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5190 MHz

Test Date :2018-07-12  
 Temp./Humi. :26/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5134.84	Average	36.15	13.59	49.74	54.00	-4.26
5134.84	Peak	48.04	13.59	61.63	74.00	-12.37
5149.96	Average	36.44	13.65	50.09	54.00	-3.91
5149.96	Peak	46.48	13.65	60.13	74.00	-13.87

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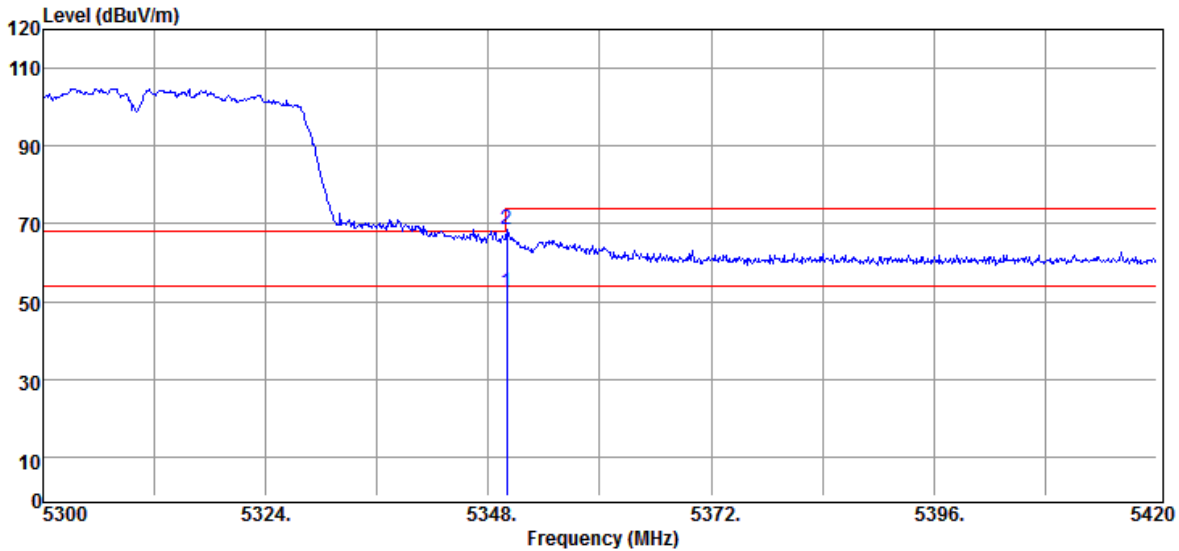
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Operation Mode	:802.11n40/Band 2	Test Date	:2018-07-12
Test Mode	:BE CH HIGH	Temp./Humi.	:26/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5310 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	38.19	14.16	52.35	54.00	-1.65
5350.00	Peak	54.23	14.16	68.39	74.00	-5.61

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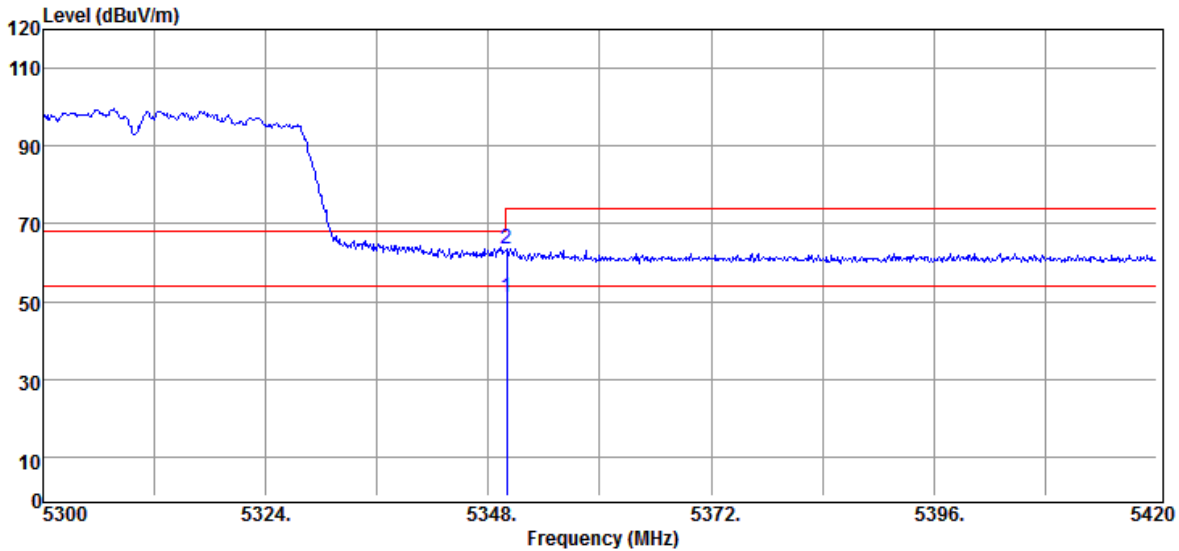
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Operation Mode	:802.11n40/Band 2	Test Date	:2018-07-12
Test Mode	:BE CH HIGH	Temp./Humi.	:26/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5310 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	36.76	14.16	50.92	54.00	-3.08
5350.00	Peak	49.41	14.16	63.57	74.00	-10.43

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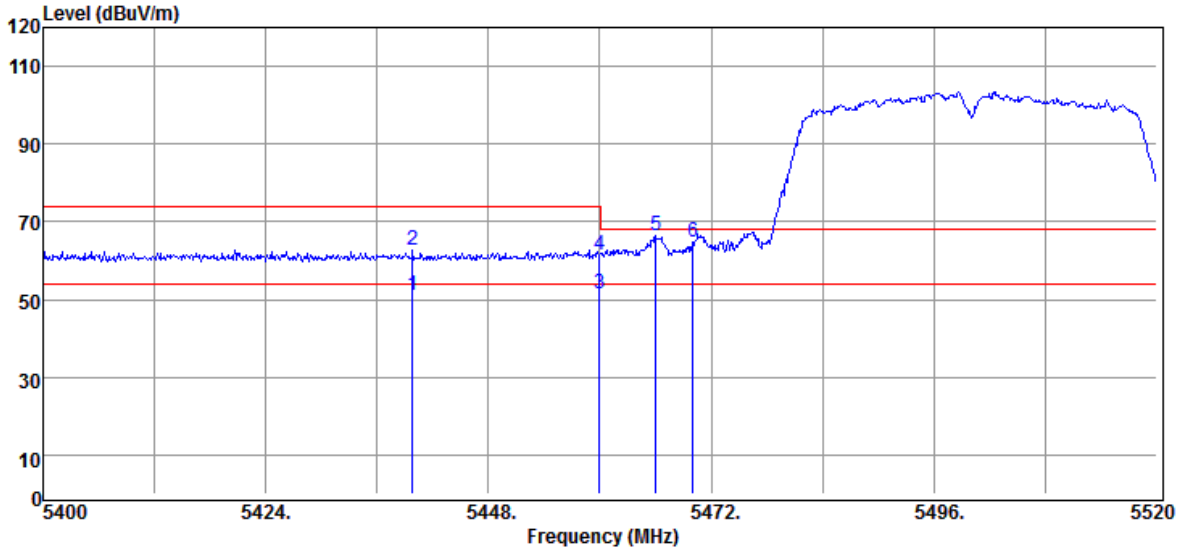
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Operation Mode :802.11n40/Band 3  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5500 MHz

Test Date :2018-07-12  
 Temp./Humi. :26/60  
 Antenna Pol. :VERTICAL  
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5439.84	Average	36.76	14.30	51.06	54.00	-2.94
5439.84	Peak	48.52	14.30	62.82	74.00	-11.18
5460.00	Average	37.29	14.31	51.60	54.00	-2.40
5460.00	Peak	47.03	14.31	61.34	74.00	-12.66
5466.00	Peak	52.03	14.32	66.35	68.20	-1.85
5470.00	Peak	50.58	14.31	64.89	68.20	-3.31

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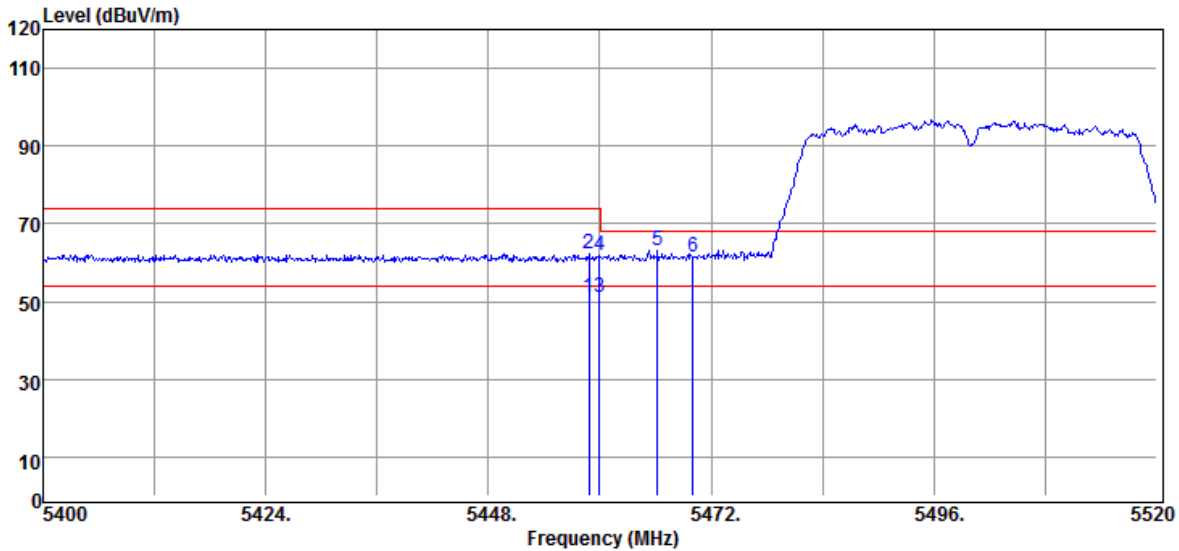
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Operation Mode :802.11n40/Band 3  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5500 MHz

Test Date :2018-07-12  
 Temp./Humi. :26/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.80	Average	36.80	14.31	51.11	54.00	-2.89
5458.80	Peak	48.14	14.31	62.45	74.00	-11.55
5460.00	Average	36.63	14.31	50.94	54.00	-3.06
5460.00	Peak	47.43	14.31	61.74	74.00	-12.26
5466.24	Peak	48.73	14.32	63.05	68.20	-5.15
5470.00	Peak	47.17	14.31	61.48	68.20	-6.72

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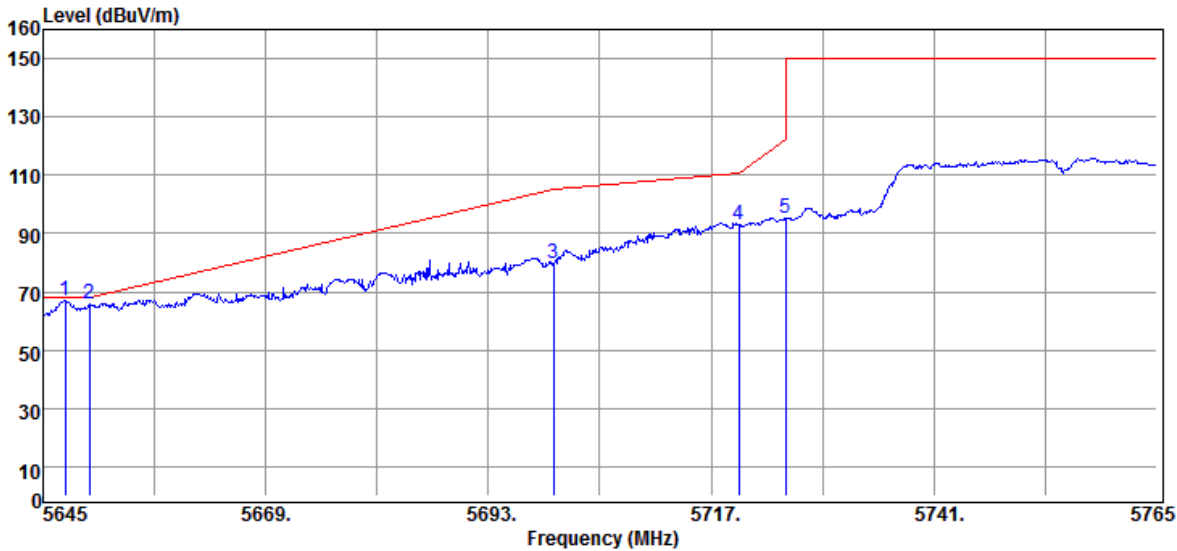
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Operation Mode :802.11n40 / Band 4  
Test Mode :BE CH LOW  
EUT Pol :H Plan  
Test Channel :5755 MHz

Test Date :2018-07-19  
Temp./Humi. :25/60  
Antenna Pol. :VERTICAL  
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5647.40	Peak	52.58	14.41	66.99	68.20	-1.21
5650.00	Peak	51.22	14.42	65.64	68.20	-2.56
5700.00	Peak	65.20	14.47	79.67	105.20	-25.53
5720.00	Peak	78.39	14.49	92.88	110.80	-17.92
5725.00	Peak	80.52	14.50	95.02	122.20	-27.18

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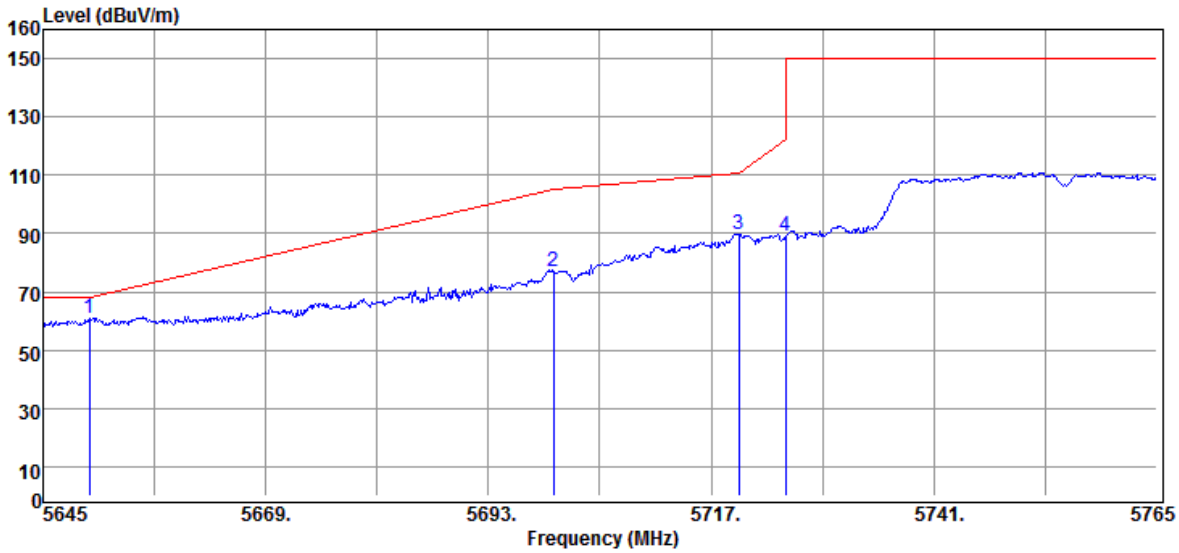
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Operation Mode :802.11n40 / Band 4  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5755 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	46.62	14.42	61.04	68.20	-7.16
5700.00	Peak	62.31	14.47	76.78	105.20	-28.42
5720.00	Peak	75.08	14.49	89.57	110.80	-21.23
5725.00	Peak	74.71	14.50	89.21	122.20	-32.99

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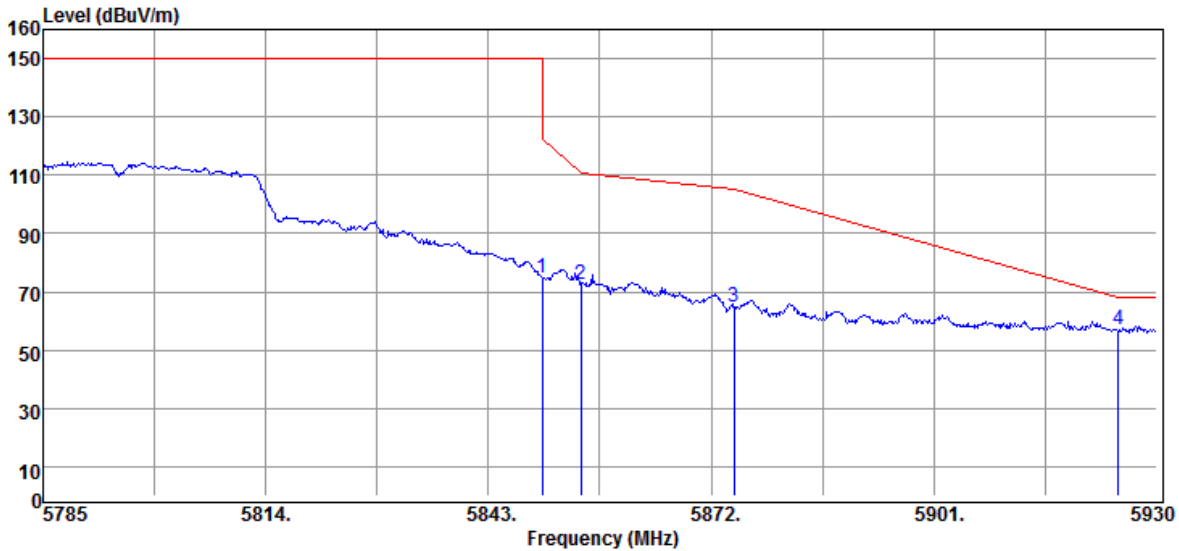
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Operation Mode :802.11n40 / Band 4  
 Test Mode :BE CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5795 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	Peak	60.24	14.72	74.96	122.20	-47.24
5855.00	Peak	57.57	14.73	72.30	110.80	-38.50
5875.00	Peak	50.19	14.78	64.97	105.20	-40.23
5925.00	Peak	41.97	14.91	56.88	68.20	-11.32

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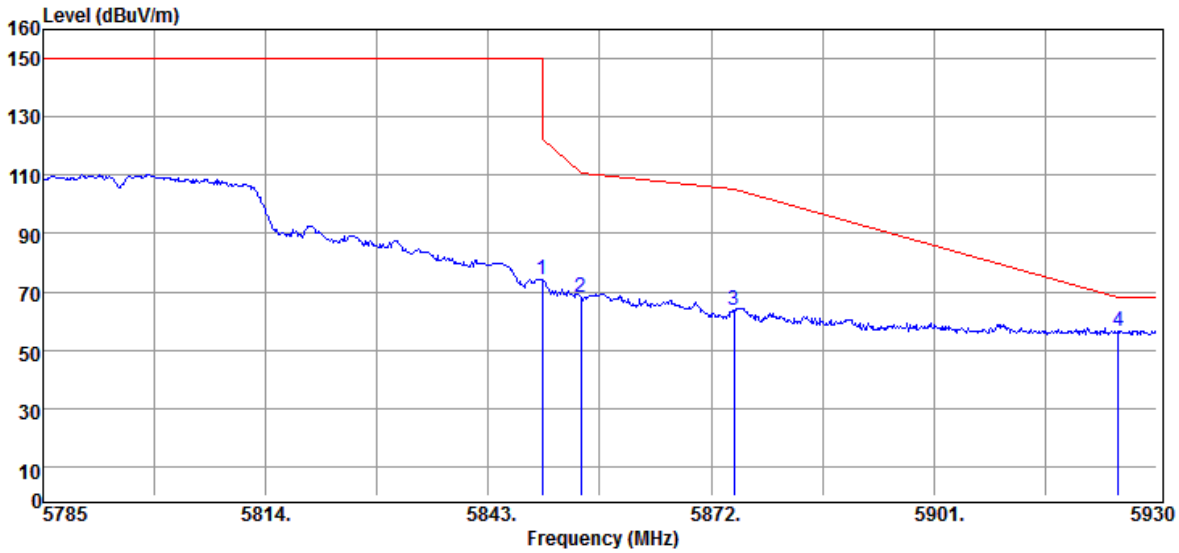
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Operation Mode :802.11n40 / Band 4  
 Test Mode :BE CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5795 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	59.56	14.72	74.28	122.20	-47.92
5855.00	Peak	53.55	14.73	68.28	110.80	-42.52
5875.00	Peak	49.08	14.78	63.86	105.20	-41.34
5925.00	Peak	41.31	14.91	56.22	68.20	-11.98

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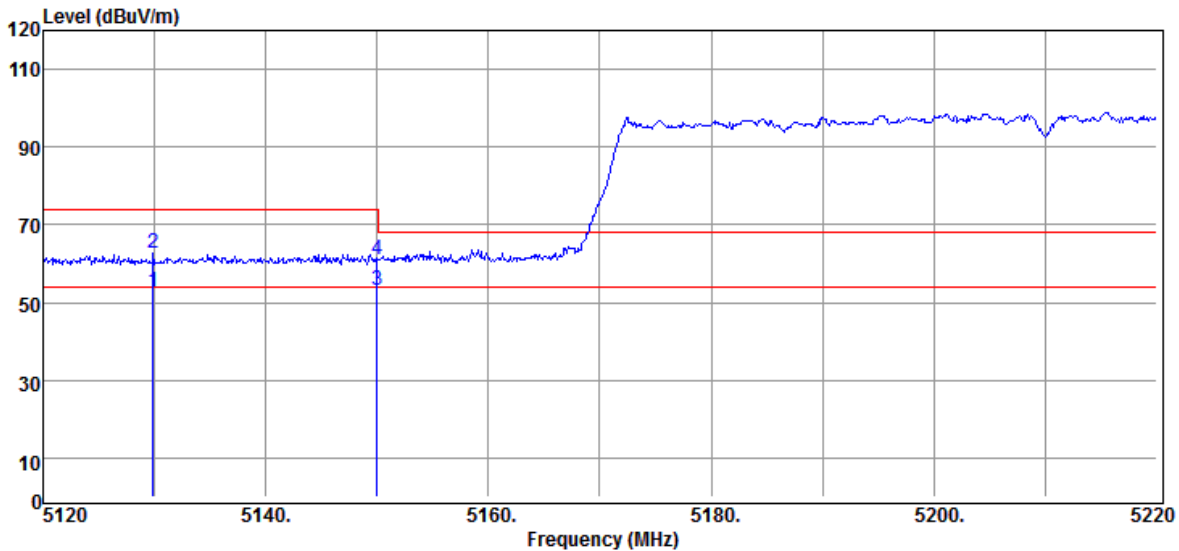
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**802.11ac80 VHT mode**

Operation Mode :802.11ac80/Band 1  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5210 MHz

Test Date :2018-07-12  
 Temp./Humi. :26/60  
 Antenna Pol. :VERTICAL  
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5129.90	Average	39.18	13.57	52.75	54.00	-1.25
5129.90	Peak	49.03	13.57	62.60	74.00	-11.40
5150.00	Average	39.30	13.65	52.95	54.00	-1.05
5150.00	Peak	47.59	13.65	61.24	74.00	-12.76

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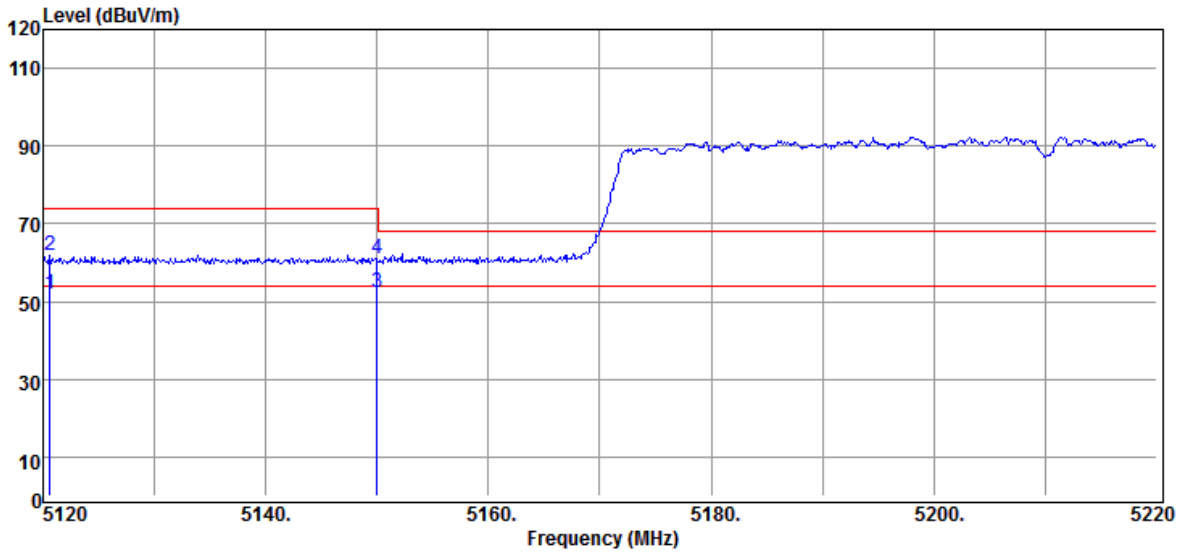
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Member of SGS Group

Operation Mode :802.11ac80/Band 1  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5210 MHz

Test Date :2018-07-12  
 Temp./Humi. :26/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5120.60	Average	38.20	13.55	51.75	54.00	-2.25
5120.60	Peak	48.37	13.55	61.92	74.00	-12.08
5150.00	Average	38.51	13.65	52.16	54.00	-1.84
5150.00	Peak	47.41	13.65	61.06	74.00	-12.94

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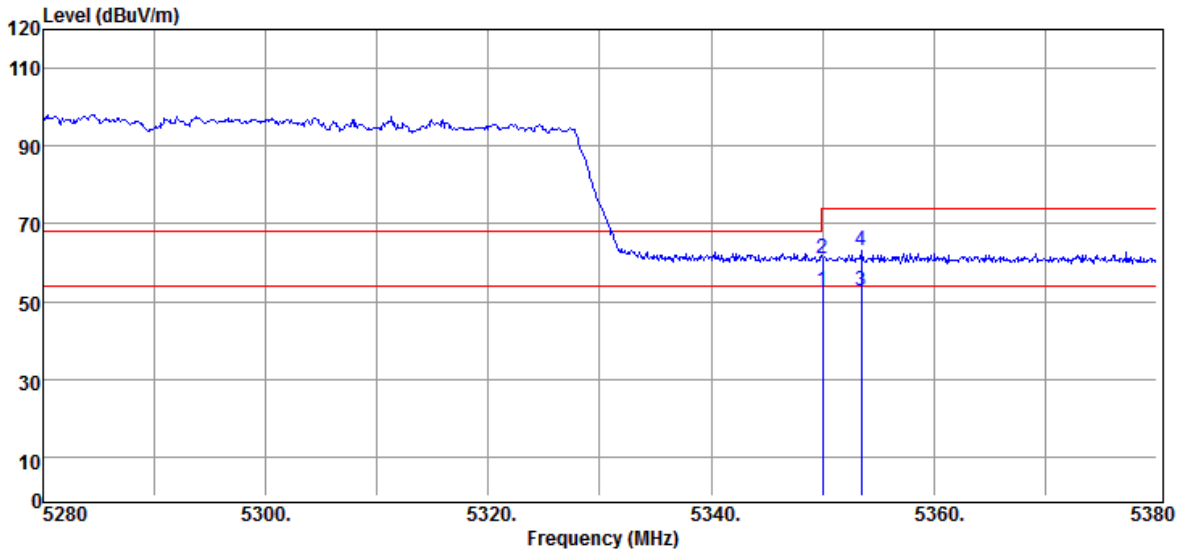
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Operation Mode :802.11ac80/Band 2  
 Test Mode :BE CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5290 MHz

Test Date :2018-07-12  
 Temp./Humi. :26/60  
 Antenna Pol. :VERTICAL  
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	Average	38.74	14.17	52.91	54.00	-1.09
5350.00	Peak	46.68	14.16	60.84	74.00	-13.16
5353.50	Average	38.55	14.17	52.72	54.00	-1.28
5353.50	Peak	48.74	14.17	62.91	74.00	-11.09

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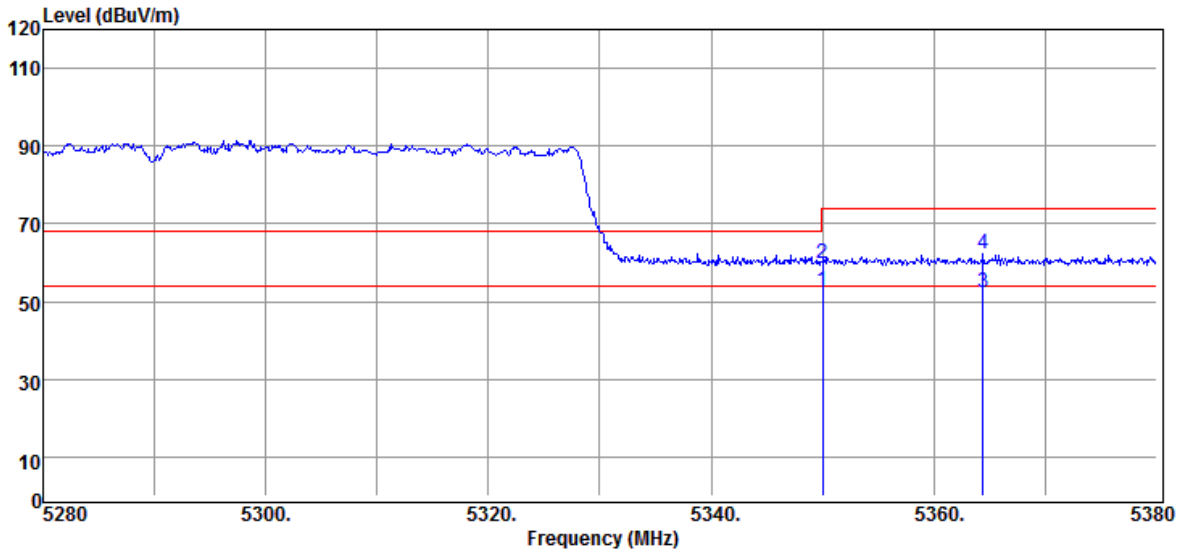
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Operation Mode	:802.11ac80/Band 2	Test Date	:2018-07-12
Test Mode	:BE CH HIGH	Temp./Humi.	:26/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5290 MHz	Engineer	:Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	Average	38.63	14.16	52.79	54.00	-1.21
5350.00	Peak	45.65	14.16	59.81	74.00	-14.19
5364.40	Average	38.23	14.20	52.43	54.00	-1.57
5364.40	Peak	47.99	14.20	62.19	74.00	-11.81

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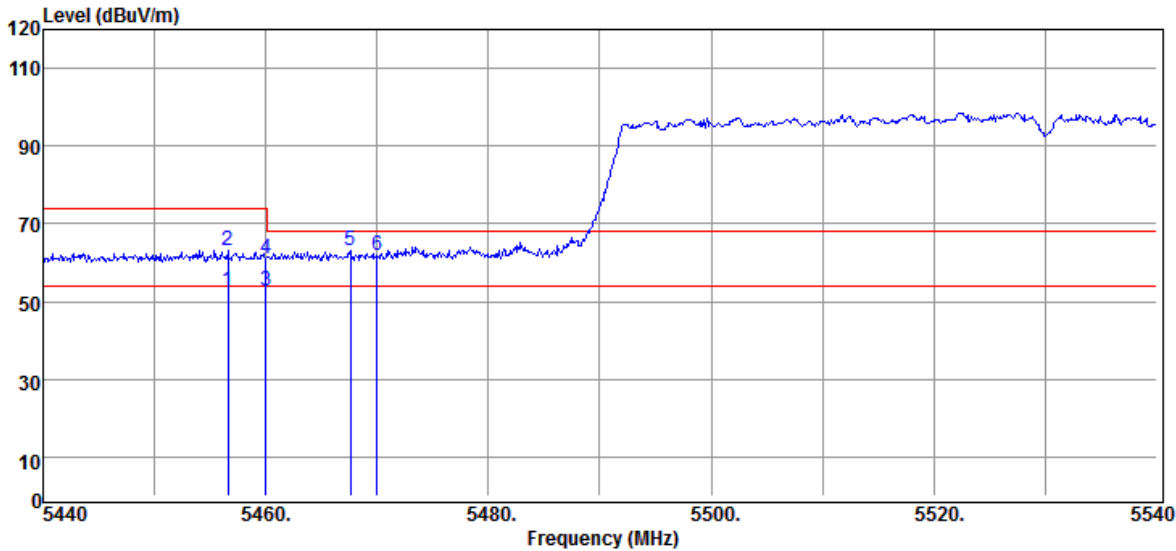
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www.tw.sgs.com

Member of SGS Group

Operation Mode :802.11ac80/Band 3  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5530 MHz

Test Date :2018-07-12  
 Temp./Humi. :26/60  
 Antenna Pol. :VERTICAL  
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5456.60	Average	38.62	14.31	52.93	54.00	-1.07
5456.60	Peak	48.83	14.31	63.14	74.00	-10.86
5460.00	Average	38.58	14.31	52.89	54.00	-1.11
5460.00	Peak	46.84	14.31	61.15	74.00	-12.85
5467.60	Peak	48.80	14.32	63.12	68.20	-5.08
5470.00	Peak	47.40	14.31	61.71	68.20	-6.49

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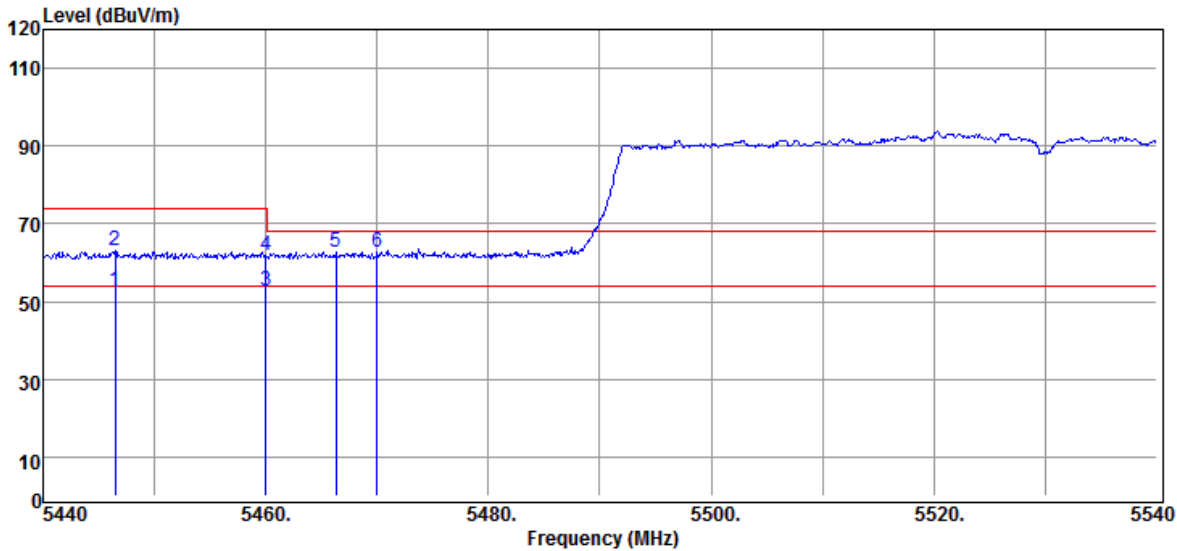
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Operation Mode :802.11ac80/Band 3  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5530 MHz

Test Date :2018-07-12  
 Temp./Humi. :26/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ashton



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5446.50	Average	38.45	14.31	52.76	54.00	-1.24
5446.50	Peak	48.65	14.31	62.96	74.00	-11.04
5460.00	Average	38.24	14.31	52.55	54.00	-1.45
5460.00	Peak	47.71	14.31	62.02	74.00	-11.98
5466.30	Peak	48.51	14.32	62.83	68.20	-5.37
5470.00	Peak	48.46	14.31	62.77	68.20	-5.43

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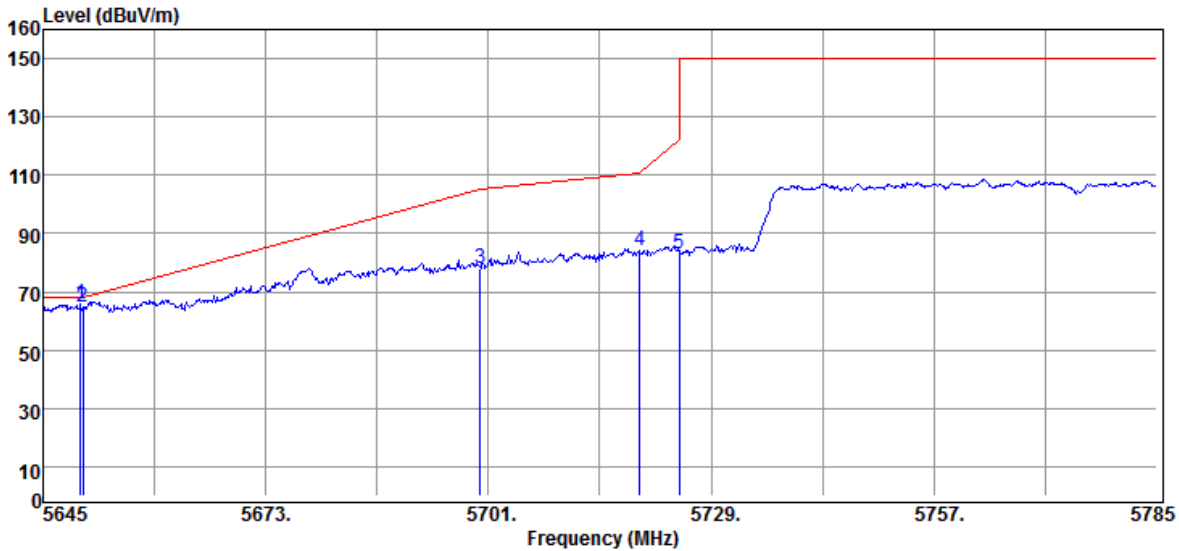
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Member of SGS Group

Operation Mode :802.11ac80 / Band 4  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5775 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5649.76	Peak	51.39	14.42	65.81	68.20	-2.39
5650.00	Peak	50.21	14.42	64.63	68.20	-3.57
5700.00	Peak	63.66	14.47	78.13	105.20	-27.07
5720.00	Peak	69.58	14.49	84.07	110.80	-26.73
5725.00	Peak	68.66	14.50	83.16	122.20	-39.04

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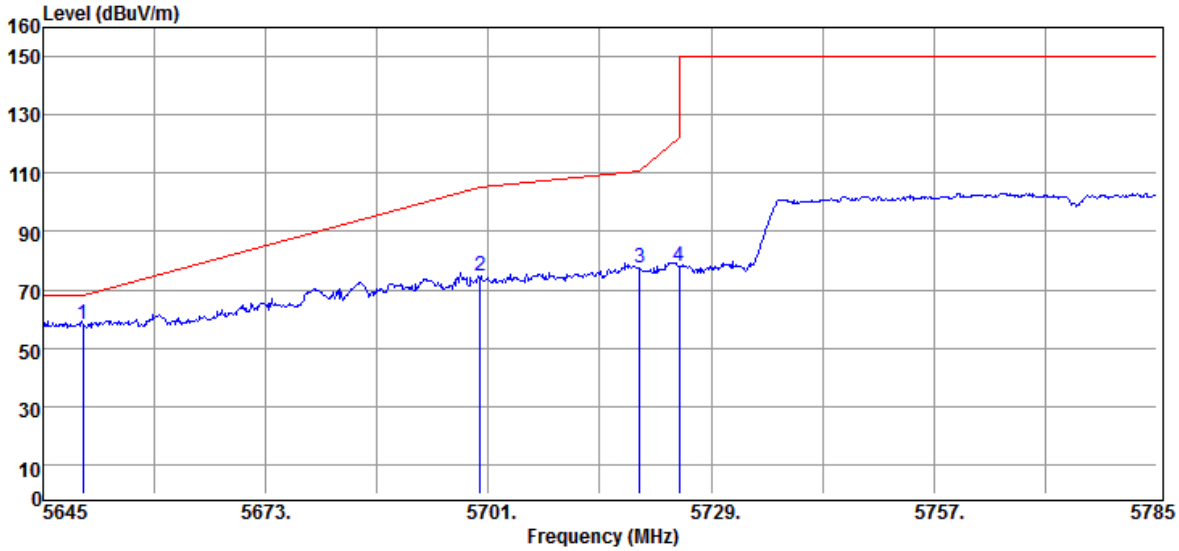
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Operation Mode :802.11ac80 / Band 4  
 Test Mode :BE CH LOW  
 EUT Pol :H Plan  
 Test Channel :5775 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	43.60	14.42	58.02	68.20	-10.18
5700.00	Peak	60.18	14.47	74.65	105.20	-30.55
5720.00	Peak	62.74	14.49	77.23	110.80	-33.57
5725.00	Peak	63.71	14.50	78.21	122.20	-43.99

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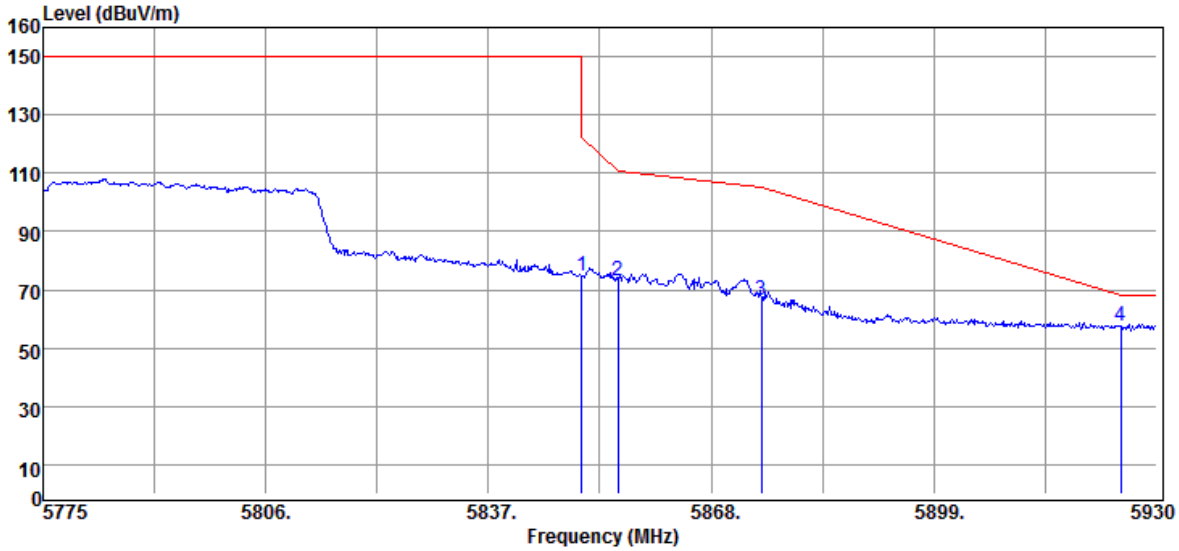
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Operation Mode :802.11ac80 / Band 4  
 Test Mode :BE CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5775 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :VERTICAL  
 Engineer :Enzo



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	60.20	14.72	74.92	122.20	-47.28
5855.00	Peak	58.58	14.73	73.31	110.80	-37.49
5875.00	Peak	51.51	14.78	66.29	105.20	-38.91
5925.00	Peak	42.39	14.91	57.30	68.20	-10.90

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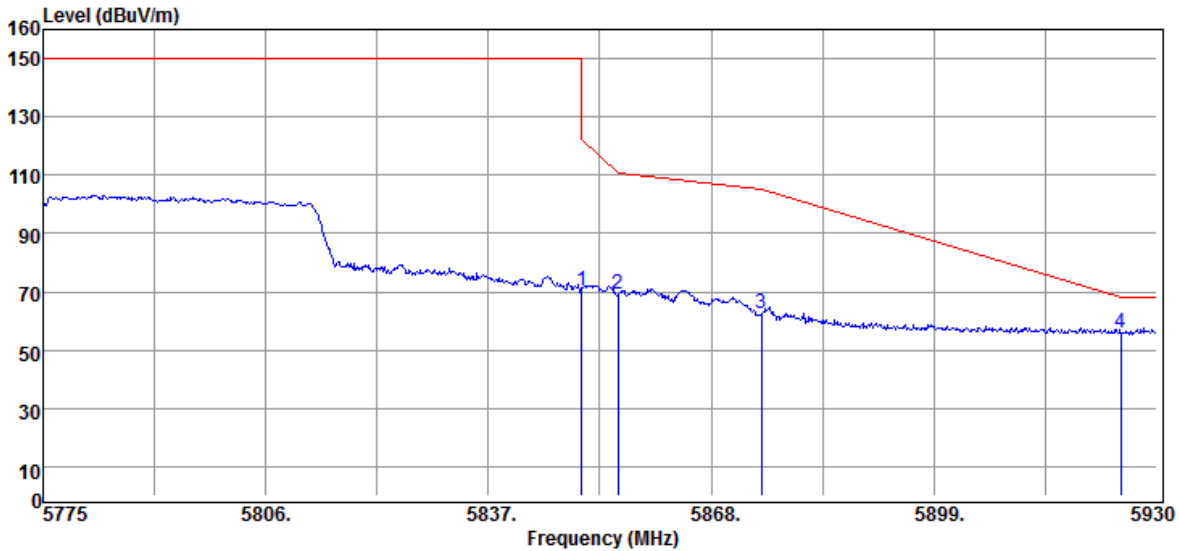
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 Test Mode :BE CH HIGH  
 EUT Pol :H Plan  
 Test Channel :5775 MHz

Test Date :2018-07-19  
 Temp./Humi. :25/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Enzo



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	55.75	14.72	70.47	122.20	-51.73
5855.00	Peak	54.46	14.73	69.19	110.80	-41.61
5875.00	Peak	47.84	14.78	62.62	105.20	-42.58
5925.00	Peak	41.26	14.91	56.17	68.20	-12.03

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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

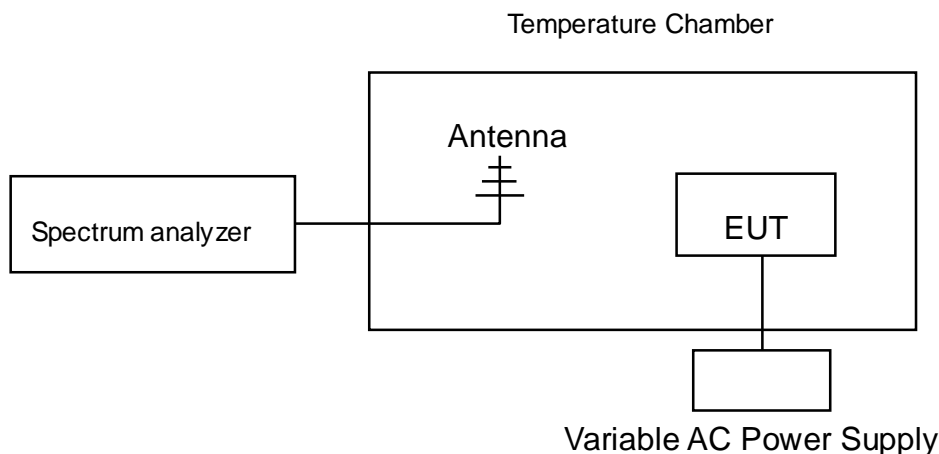
### 13.1 Standard Applicable

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
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
DC Power Supply	Agilent	E3640A	MY53130054	2017/09/04	2018/09/03
DC Power Supply	Agilent	E3640A	MY53130054	2018/09/02	2019/09/01
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
DC Block	PASTERNAK	PE8210	RF29	2017/12/26	2018/12/25
Notebook	Lenovo	T420	S0012599	N/A	N/A

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### 13.5 Measurement Result

Operation Mode	802.11 a	Test Date	2018.07.25
Temperature	:25°C	Test By	Henry
Humidity	:69 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	5.5V	36	5180	5,179.94076	0.00001144
		44	5220	5,219.94253	0.00001101
		48	5240	5,239.94303	0.00001087
		52	5260	5,259.94281	0.00001087
		60	5300	5,299.94262	0.00001083
		64	5320	5,319.94280	0.00001075
		100	5500	5,499.97377	0.00000477
		116	5580	5,579.94093	0.00001059
		140	5700	5,699.94035	0.00001046
		144	5720	5,719.94215	0.00001011
		149	5745	5,744.94033	0.00001039
		157	5785	5,784.97273	0.00000471
	165	5825	5,824.93929	0.00001042	
	4.5V	36	5180	5,179.94526	0.00001057
		44	5220	5,219.94662	0.00001023
		48	5240	5,239.94657	0.00001020
		52	5260	5,259.94575	0.00001031
		60	5300	5,299.94579	0.00001023
		64	5320	5,319.94567	0.00001021
		100	5500	5,499.94267	0.00001042
		116	5580	5,579.94170	0.00001045
		140	5700	5,699.94078	0.00001039
		144	5720	5,719.94117	0.00001028
		149	5745	5,744.94053	0.00001035
157		5785	5,784.93969	0.00001043	
165	5825	5,824.93868	0.00001053		

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25 °C	5V	36	5180	5,179.94575	0.00001047
		44	5220	5,219.94697	0.00001016
		48	5240	5,239.94714	0.00001009
		52	5260	5,259.94661	0.00001015
		60	5300	5,299.94626	0.00001014
		64	5320	5,319.94613	0.00001013
		100	5500	5,499.94330	0.00001031
		116	5580	5,579.94223	0.00001035
		140	5700	5,699.94154	0.00001026
		144	5720	5,719.94185	0.00001017
		149	5745	5,744.94103	0.00001026
		157	5785	5,784.94008	0.00001036
		165	5825	5,824.93910	0.00001045
		60 °C	5.5V	36	5180
44	5220			5,219.94214	0.00001108
48	5240			5,239.94373	0.00001074
52	5260			5,259.94277	0.00001088
60	5300			5,299.94256	0.00001084
64	5320			5,319.94273	0.00001077
100	5500			5,499.97358	0.00000480
116	5580			5,579.94128	0.00001052
140	5700			5,699.93947	0.00001062
144	5720			5,719.94198	0.00001014
149	5745			5,744.94001	0.00001044
157	5785			5,784.97264	0.00000473
165	5825			5,824.93989	0.00001032
4.5V	36			5180	5,179.94564
	44		5220	5,219.94668	0.00001021
	48		5240	5,239.94683	0.00001015
	52		5260	5,259.94645	0.00001018
	60		5300	5,299.94560	0.00001026
	64		5320	5,319.94568	0.00001021
	100		5500	5,499.94257	0.00001044
	116		5580	5,579.94201	0.00001039
	140		5700	5,699.94123	0.00001031
	144		5720	5,719.94100	0.00001031
	149		5745	5,744.94060	0.00001034
	157		5785	5,784.93918	0.00001051
165	5825		5,824.93889	0.00001049	

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Operation Mode	802.11 a	Test Date	2018.07.25
Temperature	:25°C	Test By	Henry
Humidity	:69 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	5.5V	36	5180	5,179.94140	0.00001131
		44	5220	5,219.94252	0.00001101
		48	5240	5,239.94349	0.00001078
		52	5260	5,259.94235	0.00001096
		60	5300	5,299.94297	0.00001076
		64	5320	5,319.94259	0.00001079
		100	5500	5,499.97383	0.00000476
		116	5580	5,579.94165	0.00001046
		140	5700	5,699.94022	0.00001049
		144	5720	5,719.94216	0.00001011
		149	5745	5,744.94070	0.00001032
		157	5785	5,784.97202	0.00000484
		165	5825	5,824.93971	0.00001035
		4.5V	36	5180	5,179.94524
	44		5220	5,219.94673	0.00001020
	48		5240	5,239.94656	0.00001020
	52		5260	5,259.94611	0.00001025
	60		5300	5,299.94603	0.00001018
	64		5320	5,319.94608	0.00001014
	100		5500	5,499.94264	0.00001043
	116		5580	5,579.94188	0.00001042
	140		5700	5,699.94091	0.00001037
	144		5720	5,719.94101	0.00001031
	149		5745	5,744.94029	0.00001039
	157		5785	5,784.93952	0.00001045
	165	5825	5,824.93894	0.00001048	

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25 °C	5V	36	5180	5,179.94544	0.00001053
		44	5220	5,219.94688	0.00001018
		48	5240	5,239.94638	0.00001023
		52	5260	5,259.94630	0.00001021
		60	5300	5,299.94543	0.00001030
		64	5320	5,319.94527	0.00001029
		100	5500	5,499.94287	0.00001039
		116	5580	5,579.94191	0.00001041
		140	5700	5,699.94122	0.00001031
		144	5720	5,719.94162	0.00001021
		149	5745	5,744.94076	0.00001031
		157	5785	5,784.93933	0.00001049
		165	5825	5,824.93862	0.00001054
		60 °C	5.5V	36	5180
44	5220			5,219.94263	0.00001099
48	5240			5,239.94354	0.00001077
52	5260			5,259.94250	0.00001093
60	5300			5,299.94231	0.00001088
64	5320			5,319.94211	0.00001088
100	5500			5,499.97405	0.00000472
116	5580			5,579.94091	0.00001059
140	5700			5,699.94013	0.00001050
144	5720			5,719.94184	0.00001017
149	5745			5,744.94080	0.00001030
157	5785			5,784.97220	0.00000481
165	5825			5,824.94003	0.00001030
4.5V	36			5180	5,179.94537
	44		5220	5,219.94656	0.00001024
	48		5240	5,239.94694	0.00001013
	52		5260	5,259.94639	0.00001019
	60		5300	5,299.94584	0.00001022
	64		5320	5,319.94555	0.00001023
	100		5500	5,499.94266	0.00001043
	116		5580	5,579.94194	0.00001041
	140		5700	5,699.94120	0.00001032
	144		5720	5,719.94101	0.00001031
	149		5745	5,744.94101	0.00001027
	157		5785	5,784.93929	0.00001049
165	5825		5,824.93891	0.00001049	

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Operation Mode	802.11 a	Test Date	2018.07.25
Temperature	:25°C	Test By	Henry
Humidity	:69 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	5.5V	36	5180	5,179.94111	0.00001137
		44	5220	5,219.94216	0.00001108
		48	5240	5,239.94343	0.00001080
		52	5260	5,259.94286	0.00001086
		60	5300	5,299.94255	0.00001084
		64	5320	5,319.94283	0.00001075
		100	5500	5,499.97441	0.00000465
		116	5580	5,579.94164	0.00001046
		140	5700	5,699.94028	0.00001048
		144	5720	5,719.94206	0.00001013
		149	5745	5,744.94018	0.00001041
		157	5785	5,784.97203	0.00000483
		165	5825	5,824.93954	0.00001038
	4.5V	36	5180	5,179.94528	0.00001056
		44	5220	5,219.94625	0.00001030
		48	5240	5,239.94697	0.00001012
		52	5260	5,259.94575	0.00001031
		60	5300	5,299.94584	0.00001022
		64	5320	5,319.94589	0.00001017
		100	5500	5,499.94279	0.00001040
		116	5580	5,579.94152	0.00001048
		140	5700	5,699.94081	0.00001038
		144	5720	5,719.94153	0.00001022
		149	5745	5,744.94070	0.00001032
		157	5785	5,784.93948	0.00001046
		165	5825	5,824.93899	0.00001047

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25 °C	5V	36	5180	5,179.94528	0.00001056
		44	5220	5,219.94644	0.00001026
		48	5240	5,239.94693	0.00001013
		52	5260	5,259.94637	0.00001020
		60	5300	5,299.94603	0.00001018
		64	5320	5,319.94594	0.00001016
		100	5500	5,499.94303	0.00001036
		116	5580	5,579.94183	0.00001042
		140	5700	5,699.94151	0.00001026
		144	5720	5,719.94165	0.00001020
		149	5745	5,744.94023	0.00001040
		157	5785	5,784.93955	0.00001045
		165	5825	5,824.93871	0.00001052
		60 °C	5.5V	36	5180
44	5220			5,219.94258	0.00001100
48	5240			5,239.94321	0.00001084
52	5260			5,259.94252	0.00001093
60	5300			5,299.94288	0.00001078
64	5320			5,319.94280	0.00001075
100	5500			5,499.97372	0.00000478
116	5580			5,579.94096	0.00001058
140	5700			5,699.93965	0.00001059
144	5720			5,719.94185	0.00001017
149	5745			5,744.93997	0.00001045
157	5785			5,784.97234	0.00000478
165	5825			5,824.93974	0.00001035
4.5V	36			5180	5,179.94527
	44		5220	5,219.94695	0.00001016
	48		5240	5,239.94686	0.00001014
	52		5260	5,259.94593	0.00001028
	60		5300	5,299.94550	0.00001028
	64		5320	5,319.94600	0.00001015
	100		5500	5,499.94263	0.00001043
	116		5580	5,579.94173	0.00001044
	140		5700	5,699.94144	0.00001027
	144		5720	5,719.94117	0.00001028
	149		5745	5,744.94043	0.00001037
	157		5785	5,784.93979	0.00001041
165	5825		5,824.93852	0.00001055	

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Operation Mode	802.11 a	Test Date	2018.07.25
Temperature	:25°C	Test By	Henry
Humidity	:69 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	5.5V	36	5180	5,179.94147	0.00001130
		44	5220	5,219.94209	0.00001109
		48	5240	5,239.94351	0.00001078
		52	5260	5,259.94313	0.00001081
		60	5300	5,299.94258	0.00001083
		64	5320	5,319.94247	0.00001081
		100	5500	5,499.97369	0.00000478
		116	5580	5,579.94154	0.00001048
		140	5700	5,699.93954	0.00001061
		144	5720	5,719.94214	0.00001012
		149	5745	5,744.94040	0.00001037
		157	5785	5,784.97264	0.00000473
		165	5825	5,824.93998	0.00001030
		4.5V	36	5180	5,179.94491
	44		5220	5,219.94663	0.00001022
	48		5240	5,239.94700	0.00001011
	52		5260	5,259.94644	0.00001018
	60		5300	5,299.94588	0.00001021
	64		5320	5,319.94527	0.00001029
	100		5500	5,499.94287	0.00001039
	116		5580	5,579.94142	0.00001050
	140		5700	5,699.94086	0.00001038
	144		5720	5,719.94129	0.00001026
	149		5745	5,744.94045	0.00001037
	157		5785	5,784.93990	0.00001039
	165	5825	5,824.93862	0.00001054	

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25 °C	5V	36	5180	5,179.94529	0.00001056
		44	5220	5,219.94686	0.00001018
		48	5240	5,239.94670	0.00001017
		52	5260	5,259.94616	0.00001024
		60	5300	5,299.94590	0.00001021
		64	5320	5,319.94544	0.00001026
		100	5500	5,499.94248	0.00001046
		116	5580	5,579.94207	0.00001038
		140	5700	5,699.94092	0.00001036
		144	5720	5,719.94177	0.00001018
		149	5745	5,744.94030	0.00001039
		157	5785	5,784.93928	0.00001050
		165	5825	5,824.93821	0.00001061
		60 °C	5.5V	36	5180
44	5220			5,219.94213	0.00001109
48	5240			5,239.94350	0.00001078
52	5260			5,259.94246	0.00001094
60	5300			5,299.94254	0.00001084
64	5320			5,319.94247	0.00001081
100	5500			5,499.97385	0.00000475
116	5580			5,579.94165	0.00001046
140	5700			5,699.93983	0.00001056
144	5720			5,719.94214	0.00001012
149	5745			5,744.93994	0.00001045
157	5785			5,784.97238	0.00000477
165	5825			5,824.93951	0.00001038
4.5V	36			5180	5,179.94573
	44		5220	5,219.94660	0.00001023
	48		5240	5,239.94704	0.00001011
	52		5260	5,259.94605	0.00001026
	60		5300	5,299.94572	0.00001024
	64		5320	5,319.94544	0.00001026
	100		5500	5,499.94285	0.00001039
	116		5580	5,579.94173	0.00001044
	140		5700	5,699.94064	0.00001041
	144		5720	5,719.94181	0.00001017
	149		5745	5,744.94076	0.00001031
	157		5785	5,784.93951	0.00001046
165	5825		5,824.93870	0.00001052	

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Operation Mode	802.11 n_HT40	Test Date	2018.07.25
Temperature	:25°C	Test By	Henry
Humidity	:69 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	5.5V	38	5190	5,189.94623	0.00001036
		46	5230	5,229.94511	0.00001050
		54	5270	5,269.91216	0.00001667
		62	5310	5,309.94506	0.00001035
		102	5510	5,509.94230	0.00001047
		110	5550	5,549.94150	0.00001054
		134	5670	5,669.94031	0.00001053
		142	5710	5,709.94194	0.00001017
		151	5755	5,754.93923	0.00001056
		159	5795	5,794.93861	0.00001059
	4.5V	38	5190	5,189.94755	0.00001011
		46	5230	5,229.94700	0.00001013
		54	5270	5,269.94562	0.00001032
		62	5310	5,309.94611	0.00001015
		102	5510	5,509.94376	0.00001021
		110	5550	5,549.94289	0.00001029
		134	5670	5,669.94196	0.00001024
		142	5710	5,709.93997	0.00001051
		151	5755	5,754.93997	0.00001043
		159	5795	5,794.93977	0.00001039

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25 °C	5V	38	5190	5,189.94764	0.00001009
		46	5230	5,229.94753	0.00001003
		54	5270	5,269.94645	0.00001016
		62	5310	5,309.94652	0.00001007
		102	5510	5,509.94385	0.00001019
		110	5550	5,549.94292	0.00001028
		134	5670	5,669.94207	0.00001022
		142	5710	5,709.94056	0.00001041
		151	5755	5,754.94056	0.00001033
		159	5795	5,794.94033	0.00001030
60 °C	5.5V	38	5190	5,189.94621	0.00001036
		46	5230	5,229.94504	0.00001051
		54	5270	5,269.91269	0.00001657
		62	5310	5,309.94479	0.00001040
		102	5510	5,509.94266	0.00001041
		110	5550	5,549.94132	0.00001057
		134	5670	5,669.93981	0.00001062
		142	5710	5,709.94140	0.00001026
		151	5755	5,754.93837	0.00001071
		159	5795	5,794.93925	0.00001048
	4.5V	38	5190	5,189.94741	0.00001013
		46	5230	5,229.94732	0.00001007
		54	5270	5,269.94614	0.00001022
		62	5310	5,309.94630	0.00001011
		102	5510	5,509.94302	0.00001034
		110	5550	5,549.94269	0.00001033
		134	5670	5,669.94205	0.00001022
		142	5710	5,709.93992	0.00001052
		151	5755	5,754.94041	0.00001035
		159	5795	5,794.93968	0.00001041

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Operation Mode	802.11 n_HT40	Test Date	2018.07.25
Temperature	:25°C	Test By	Henry
Humidity	:69 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	5.5V	38	5190	5,189.94620	0.00001037
		46	5230	5,229.94554	0.00001041
		54	5270	5,269.91228	0.00001665
		62	5310	5,309.94522	0.00001032
		102	5510	5,509.94293	0.00001036
		110	5550	5,549.94086	0.00001066
		134	5670	5,669.94044	0.00001050
		142	5710	5,709.94167	0.00001022
		151	5755	5,754.93891	0.00001062
		159	5795	5,794.93872	0.00001057
	4.5V	38	5190	5,189.94755	0.00001011
		46	5230	5,229.94714	0.00001011
		54	5270	5,269.94605	0.00001024
		62	5310	5,309.94603	0.00001016
		102	5510	5,509.94375	0.00001021
		110	5550	5,549.94243	0.00001037
		134	5670	5,669.94174	0.00001028
		142	5710	5,709.93985	0.00001053
		151	5755	5,754.94045	0.00001035
		159	5795	5,794.93968	0.00001041

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25 °C	5V	38	5190	5,189.94683	0.00001024
		46	5230	5,229.94748	0.00001004
		54	5270	5,269.94591	0.00001026
		62	5310	5,309.94590	0.00001019
		102	5510	5,509.94338	0.00001028
		110	5550	5,549.94288	0.00001029
		134	5670	5,669.94179	0.00001027
		142	5710	5,709.93973	0.00001056
		151	5755	5,754.94033	0.00001037
		159	5795	5,794.94030	0.00001030
60 °C	5.5V	38	5190	5,189.94551	0.00001050
		46	5230	5,229.94499	0.00001052
		54	5270	5,269.91234	0.00001663
		62	5310	5,309.94482	0.00001039
		102	5510	5,509.94267	0.00001040
		110	5550	5,549.94107	0.00001062
		134	5670	5,669.93984	0.00001061
		142	5710	5,709.94156	0.00001023
		151	5755	5,754.93851	0.00001068
		159	5795	5,794.93895	0.00001053
	4.5V	38	5190	5,189.94730	0.00001015
		46	5230	5,229.94724	0.00001009
		54	5270	5,269.94599	0.00001025
		62	5310	5,309.94644	0.00001009
		102	5510	5,509.94316	0.00001032
		110	5550	5,549.94285	0.00001030
		134	5670	5,669.94139	0.00001034
		142	5710	5,709.93975	0.00001055
		151	5755	5,754.93978	0.00001046
		159	5795	5,794.93981	0.00001039

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Operation Mode	802.11 n_HT40	Test Date	2018.07.25
Temperature	:25°C	Test By	Henry
Humidity	:69 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	5.5V	38	5190	5,189.94570	0.00001046
		46	5230	5,229.94531	0.00001046
		54	5270	5,269.91271	0.00001656
		62	5310	5,309.94527	0.00001031
		102	5510	5,509.94278	0.00001038
		110	5550	5,549.94074	0.00001068
		134	5670	5,669.93955	0.00001066
		142	5710	5,709.94169	0.00001021
		151	5755	5,754.93889	0.00001062
		159	5795	5,794.93872	0.00001057
	4.5V	38	5190	5,189.94745	0.00001013
		46	5230	5,229.94736	0.00001007
		54	5270	5,269.94641	0.00001017
		62	5310	5,309.94621	0.00001013
		102	5510	5,509.94333	0.00001028
		110	5550	5,549.94242	0.00001037
		134	5670	5,669.94134	0.00001035
		142	5710	5,709.93979	0.00001054
		151	5755	5,754.94018	0.00001039
		159	5795	5,794.94012	0.00001033

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25 °C	5V	38	5190	5,189.94752	0.00001011
		46	5230	5,229.94719	0.00001010
		54	5270	5,269.94632	0.00001019
		62	5310	5,309.94634	0.00001011
		102	5510	5,509.94356	0.00001024
		110	5550	5,549.94227	0.00001040
		134	5670	5,669.94139	0.00001034
		142	5710	5,709.93987	0.00001053
		151	5755	5,754.94037	0.00001036
		159	5795	5,794.93962	0.00001042
60 °C	5.5V	38	5190	5,189.94562	0.00001048
		46	5230	5,229.94573	0.00001038
		54	5270	5,269.91237	0.00001663
		62	5310	5,309.94515	0.00001033
		102	5510	5,509.94283	0.00001038
		110	5550	5,549.94065	0.00001069
		134	5670	5,669.94014	0.00001056
		142	5710	5,709.94112	0.00001031
		151	5755	5,754.93864	0.00001066
		159	5795	5,794.93870	0.00001058
	4.5V	38	5190	5,189.94706	0.00001020
		46	5230	5,229.94706	0.00001012
		54	5270	5,269.94641	0.00001017
		62	5310	5,309.94598	0.00001017
		102	5510	5,509.94299	0.00001035
		110	5550	5,549.94283	0.00001030
		134	5670	5,669.94142	0.00001033
		142	5710	5,709.94049	0.00001042
		151	5755	5,754.93967	0.00001048
		159	5795	5,794.94004	0.00001035

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Operation Mode	802.11 n_HT40	Test Date	2018.07.25
Temperature	:25°C	Test By	Henry
Humidity	:69 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	5.5V	38	5190	5,189.94613	0.00001038
		46	5230	5,229.94503	0.00001051
		54	5270	5,269.91283	0.00001654
		62	5310	5,309.94513	0.00001033
		102	5510	5,509.94285	0.00001037
		110	5550	5,549.94124	0.00001059
		134	5670	5,669.93997	0.00001059
		142	5710	5,709.94186	0.00001018
		151	5755	5,754.93916	0.00001057
		159	5795	5,794.93911	0.00001051
	4.5V	38	5190	5,189.94694	0.00001022
		46	5230	5,229.94692	0.00001015
		54	5270	5,269.94583	0.00001028
		62	5310	5,309.94598	0.00001017
		102	5510	5,509.94360	0.00001024
		110	5550	5,549.94268	0.00001033
		134	5670	5,669.94129	0.00001035
		142	5710	5,709.94028	0.00001046
		151	5755	5,754.93967	0.00001048
		159	5795	5,794.94031	0.00001030

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25 °C	5V	38	5190	5,189.94679	0.00001025
		46	5230	5,229.94674	0.00001018
		54	5270	5,269.94594	0.00001026
		62	5310	5,309.94593	0.00001018
		102	5510	5,509.94341	0.00001027
		110	5550	5,549.94289	0.00001029
		134	5670	5,669.94200	0.00001023
		142	5710	5,709.94021	0.00001047
		151	5755	5,754.94042	0.00001035
		159	5795	5,794.93972	0.00001040
60 °C	5.5V	38	5190	5,189.94592	0.00001042
		46	5230	5,229.94511	0.00001050
		54	5270	5,269.91270	0.00001657
		62	5310	5,309.94505	0.00001035
		102	5510	5,509.94281	0.00001038
		110	5550	5,549.94081	0.00001066
		134	5670	5,669.93980	0.00001062
		142	5710	5,709.94140	0.00001026
		151	5755	5,754.93850	0.00001069
		159	5795	5,794.93860	0.00001060
	4.5V	38	5190	5,189.94689	0.00001023
		46	5230	5,229.94687	0.00001016
		54	5270	5,269.94625	0.00001020
		62	5310	5,309.94638	0.00001010
		102	5510	5,509.94320	0.00001031
		110	5550	5,549.94231	0.00001039
		134	5670	5,669.94187	0.00001025
		142	5710	5,709.93990	0.00001053
		151	5755	5,754.93978	0.00001046
		159	5795	5,794.93998	0.00001036

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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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