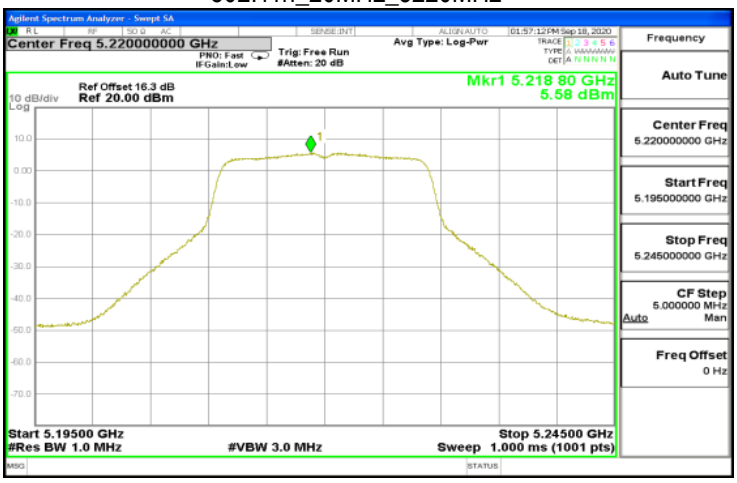
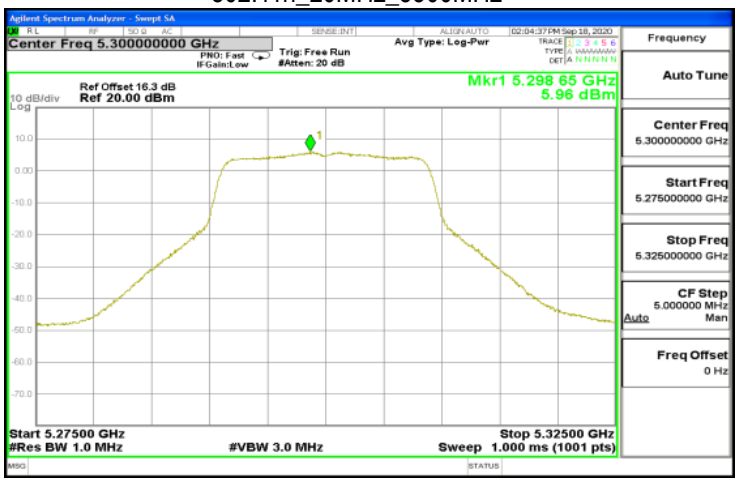
802.11n_20MHz_5220MHz



802.11n_20MHz_5300MHz



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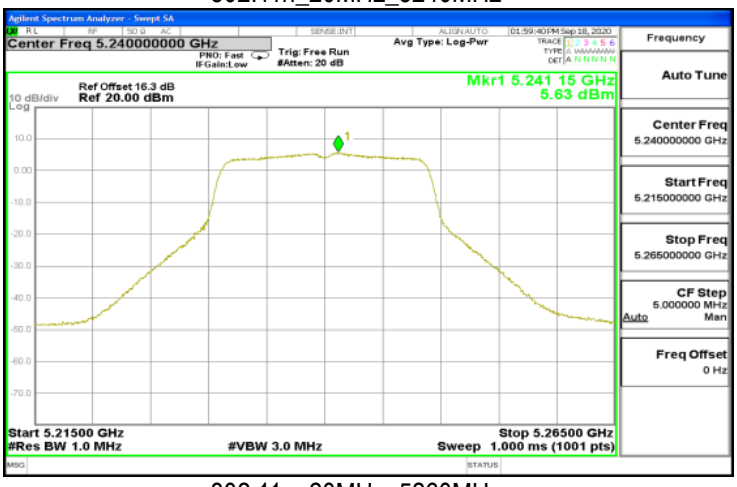

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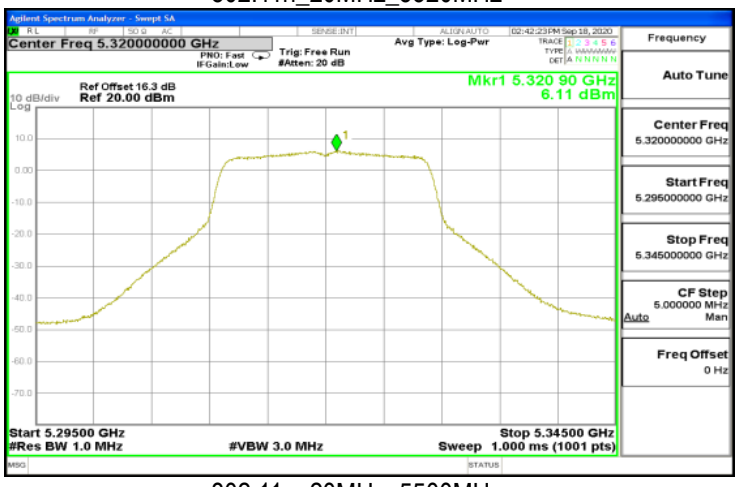
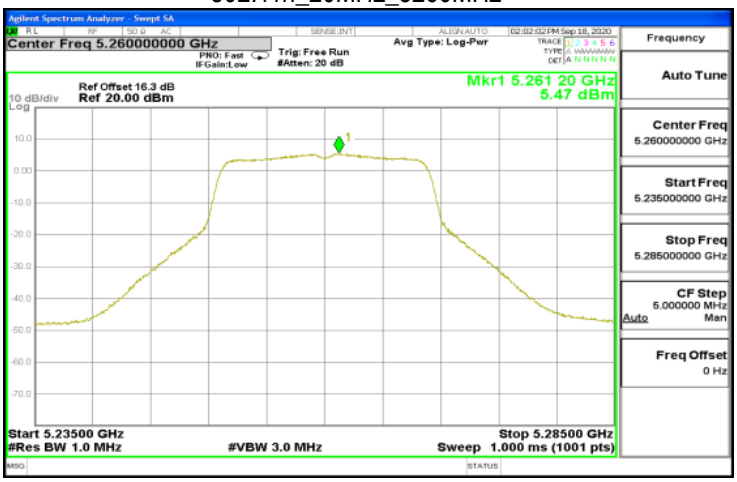
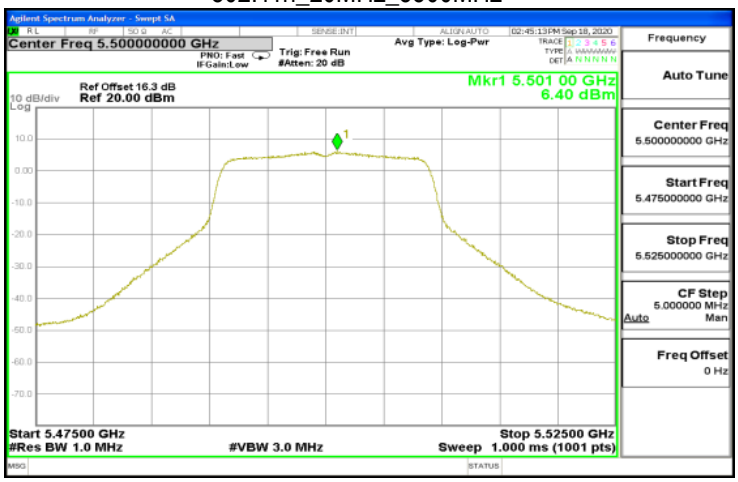


802.11n_20MHz_5260MHz



802.11n_20MHz_5500MHz



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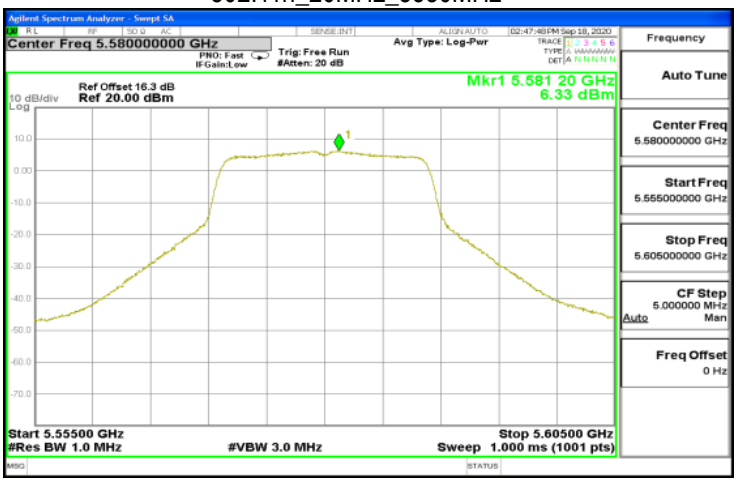
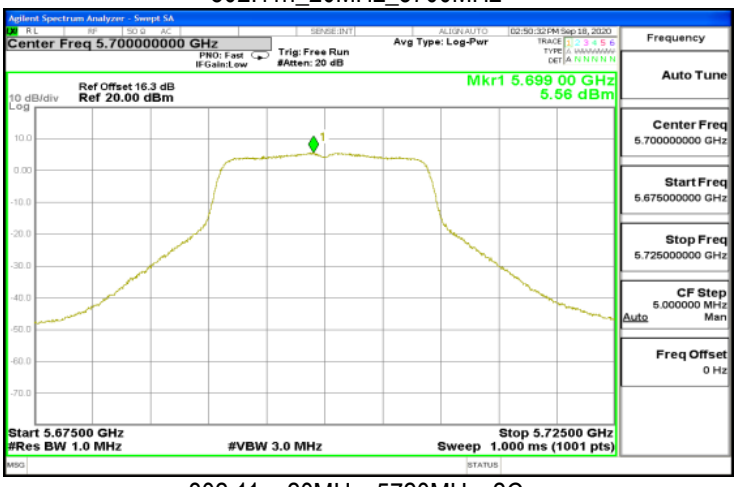
802.11n_20MHz_5580MHz

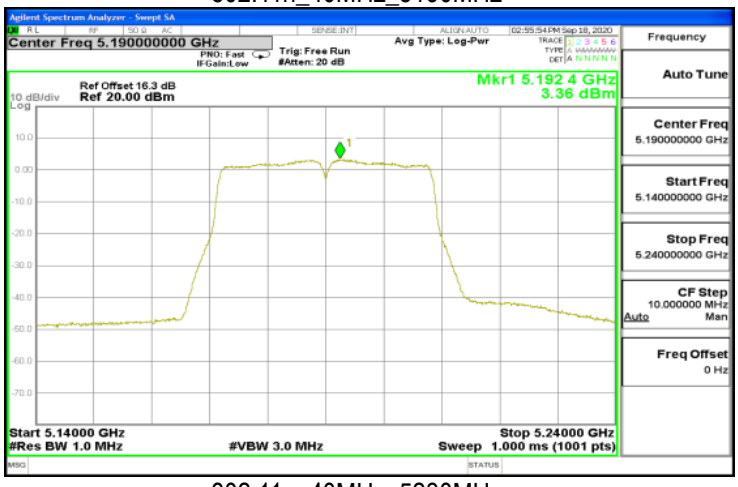


802.11n_20MHz_5720MHz_3

802.11n_20MHz_5700MHz

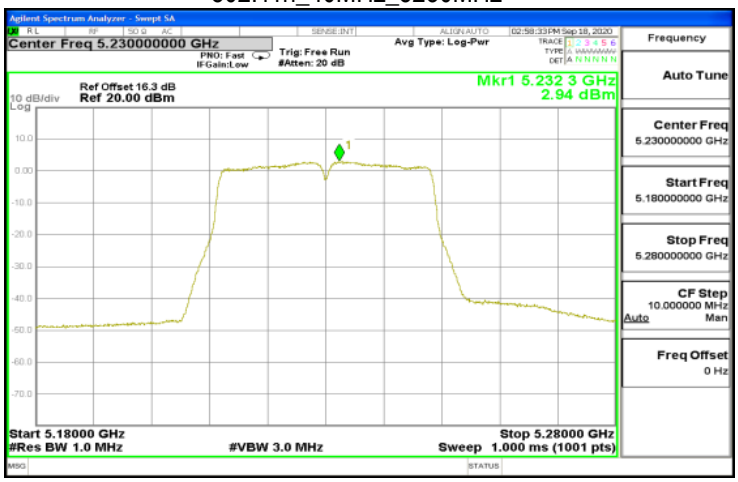


802.11n_40MHz_5190MHz



802.11n_20MHz_5720MHz_2C

802.11n_40MHz_5230MHz



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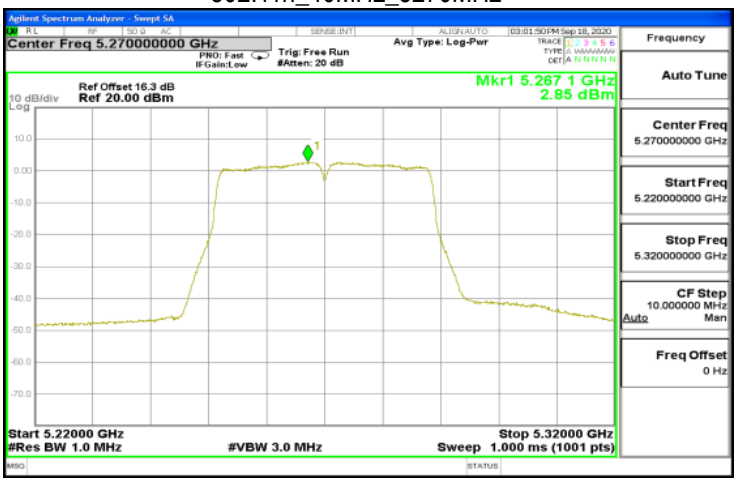
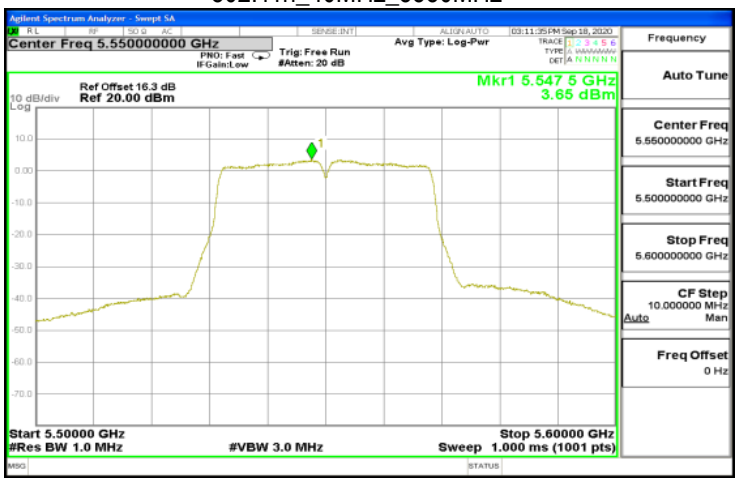
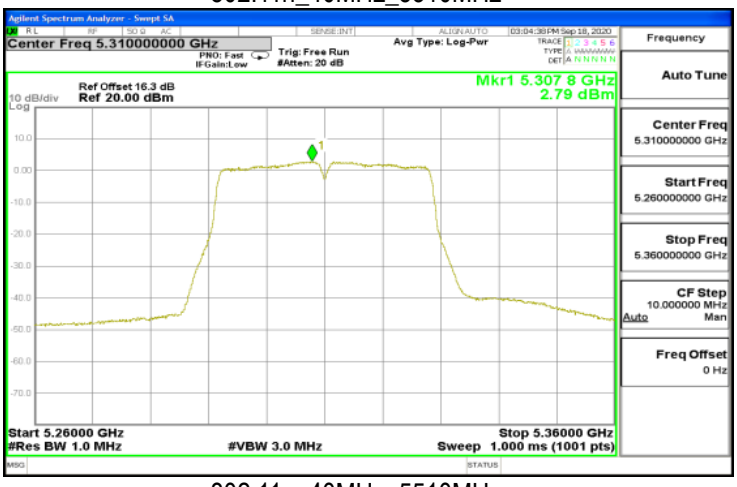
802.11n_40MHz_5270MHz



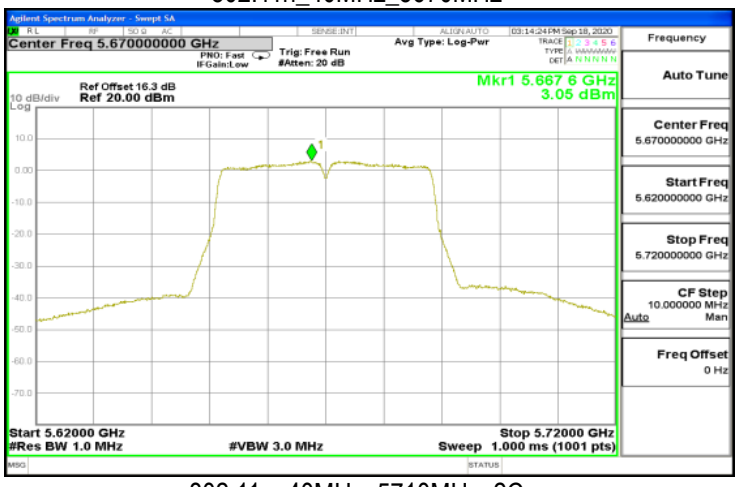
802.11n_40MHz_5550MHz



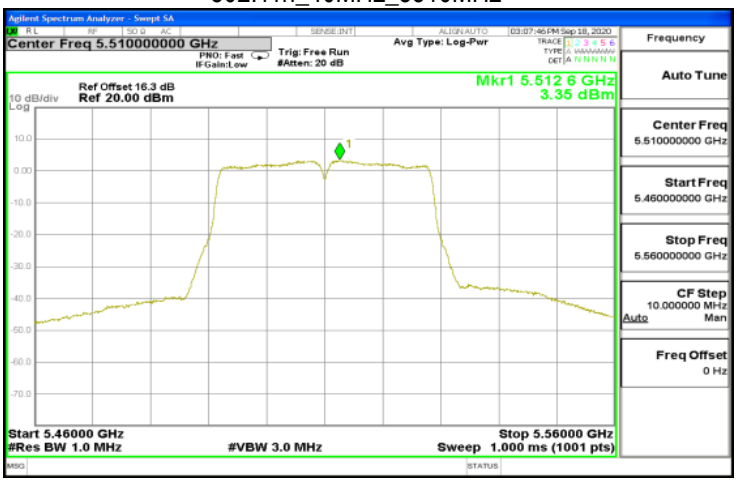
802.11n_40MHz_5310MHz



802.11n_40MHz_5670MHz



802.11n_40MHz_5510MHz



802.11n_40MHz_5710MHz_2C

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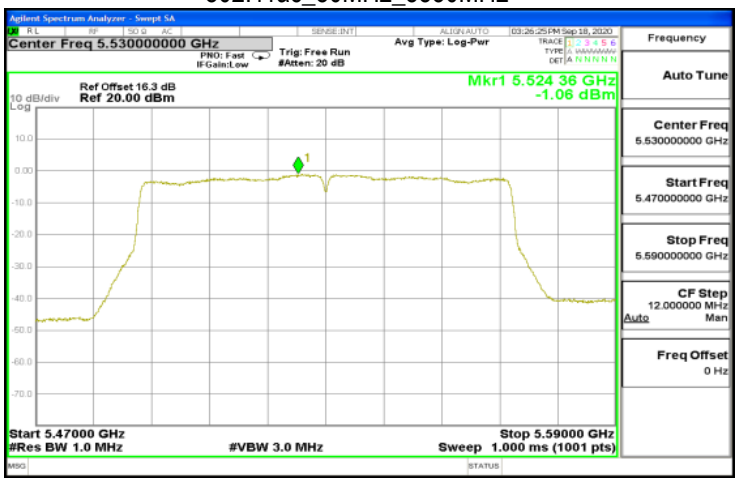
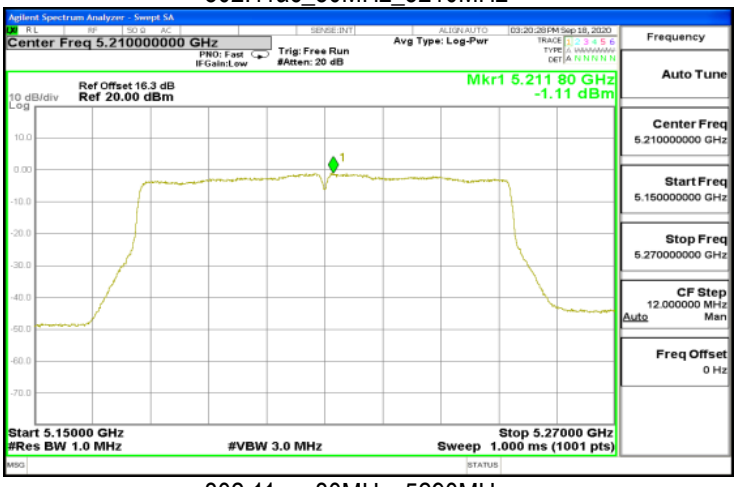
802.11n_40MHz_5710MHz_3

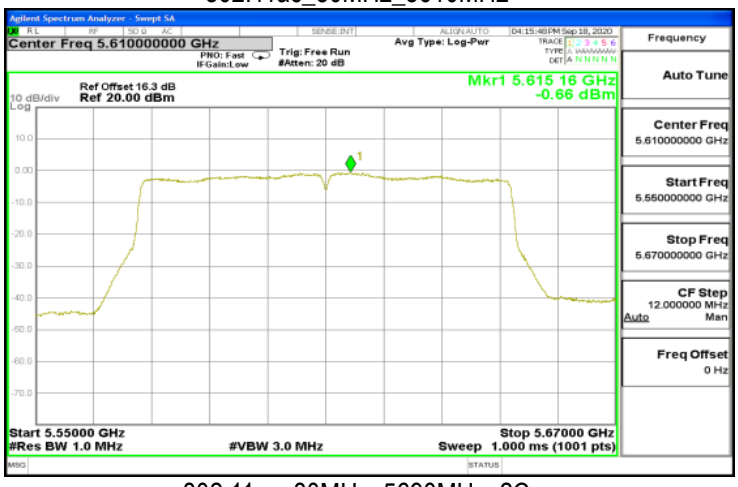
802.11ac_80MHz_5530MHz



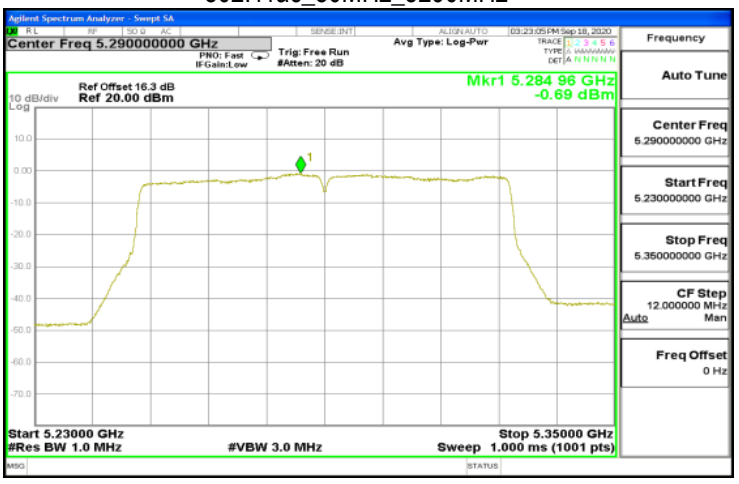
802.11ac_80MHz_5210MHz



802.11ac_80MHz_5610MHz



802.11ac_80MHz_5290MHz



802.11ac_80MHz_5690MHz_2C

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802.11ac_80MHz_5690MHz_3

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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

11.1.1 Band Edge

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	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) RSS-247 §6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2) RSS-247 §6.2.2.2		
15.407(b)(3) RSS-247 §6.2.3.2		
15.407(b)(4)(i) RSS-247 §6.2.4.2	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*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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11.1.2 Spurious Emission

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 (µV/m)*

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11.2 Measurement Equipment Used

SGS SAC-III					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Horn Antenna	Schwarzbeck	BBHA9170	184	Dec. 25th, 2019	Dec. 24th, 2020
Horn Antenna	Schwarzbeck	BBHA9120D	603	Apr. 29th, 2020	Apr. 28th, 2021
Bi-log Antenna	SCHWAZBECK	VULB9168	378	Aug. 6th, 2020	Aug. 5th, 2021
Loop Antenna	ETS.LINDGREN	6502	148045	Oct. 15th, 2019	Oct. 14th, 2020
3m Site NSA	SGS	966 chamber	N/A	Jan. 2nd, 2020	Jan. 1st, 2021
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	Apr. 21st, 2020	Apr. 20th, 2021
EMI Test Receiver	R&S	ESCI 7	100759	Jul. 13th, 2020	Jul. 12th, 2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	Jan. 2nd, 2020	Jan. 1st, 2021
Pre-Amplifier	HP	8447D	2944A09469	Jan. 2nd, 2020	Jan. 1st, 2021
Attenuator	Mini-Circuit	BW-S10W2+	4	Jan. 2nd, 2020	Jan. 1st, 2021
Filter 5150-5350 MHz	Micro-Tronics	BRM50703	1	Jan. 2nd, 2020	Jan. 1st, 2021
Filter 5470-5725 MHz	Micro-Tronics	BRM50704	1	Jan. 2nd, 2020	Jan. 1st, 2021
High Pass Filter	WI	WHKX7.0/18G-8SS	45	Jan. 2nd, 2020	Jan. 1st, 2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	Jan. 2nd, 2020	Jan. 1st, 2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	Jan. 2nd, 2020	Jan. 1st, 2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	Jan. 2nd, 2020	Jan. 1st, 2021
Test Software	audix	e3	Ver. 6.11-20180413	N.C.R	N.C.R

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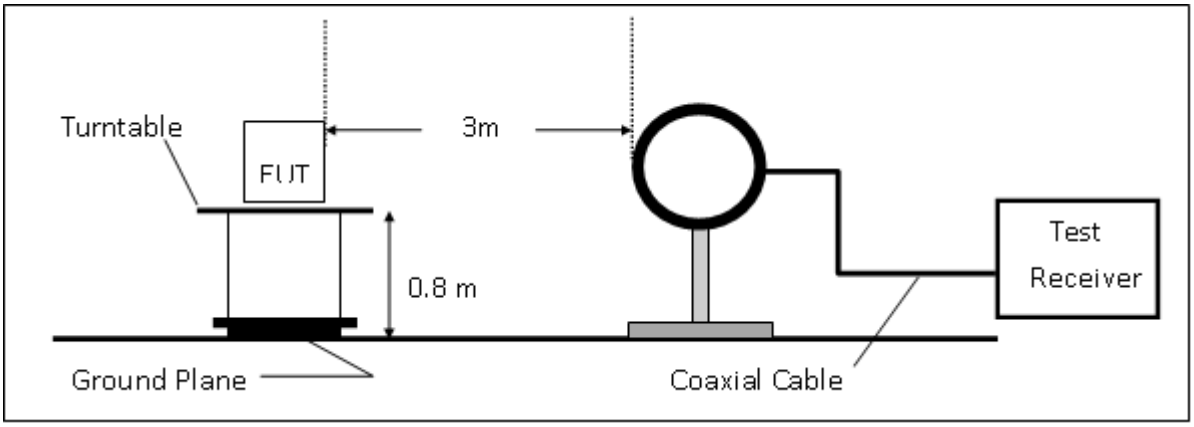
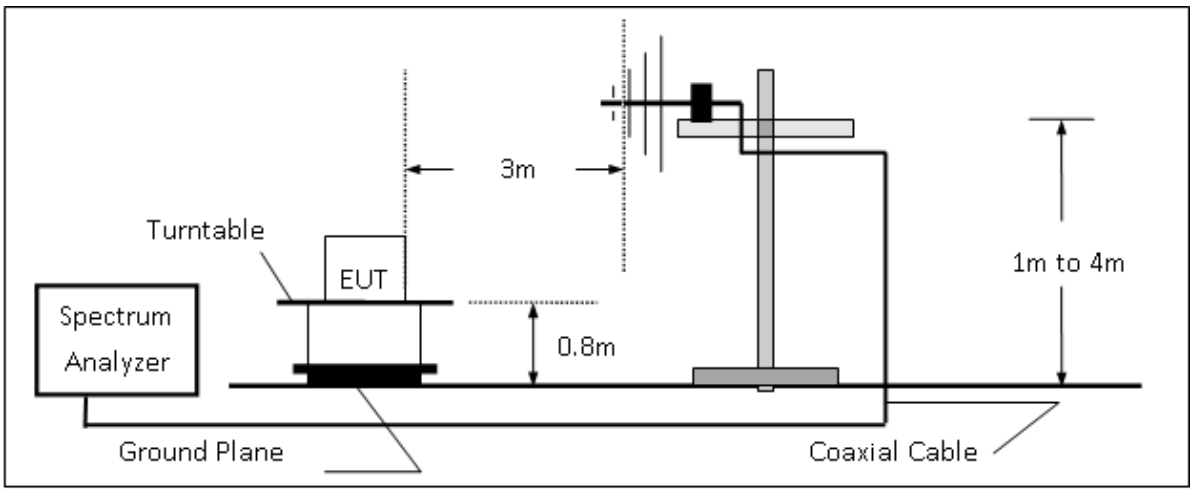
11.3 Test SET-UP

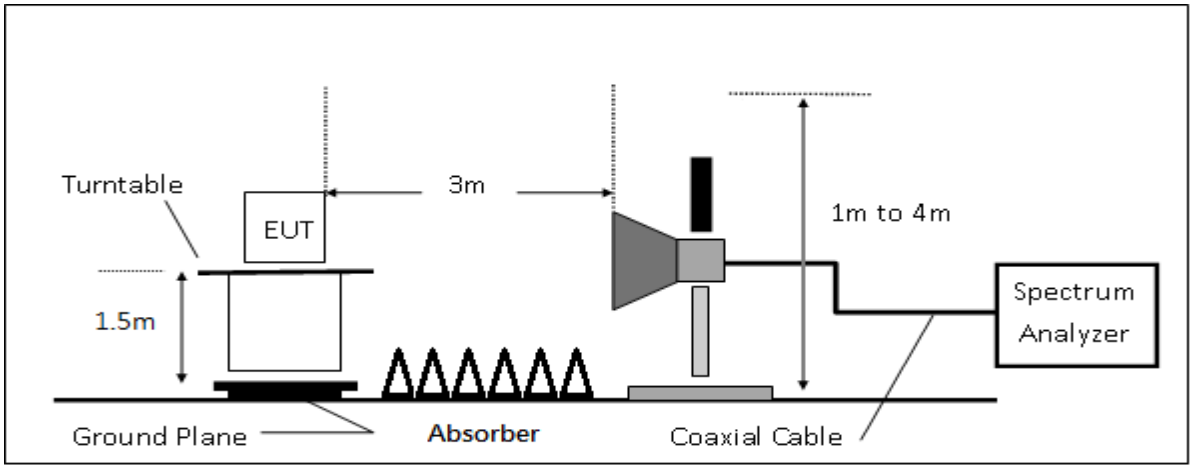
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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. At frequency above 1 GHz, Set the spectrum analyzer:
   A. RBW=1 MHz, VBW=3 MHz for **Peak** Detector.
   B. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for **Average** Detector.
8. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
9. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
10. Repeat above procedures until all frequency measured were complete.

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11.5 Field Strength Calculation

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

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

Where *FS = Field Strength*
RA = Reading Amplitude
AF = Antenna Factor
CL = Cable Attenuation Factor (Cable Loss)
AG = Amplifier Gain

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

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.

Pre-scanned was done at frequency 5.47 GHz and 5.85 GHz for bandedge measurement of straddle channels 138, 142 and 144 which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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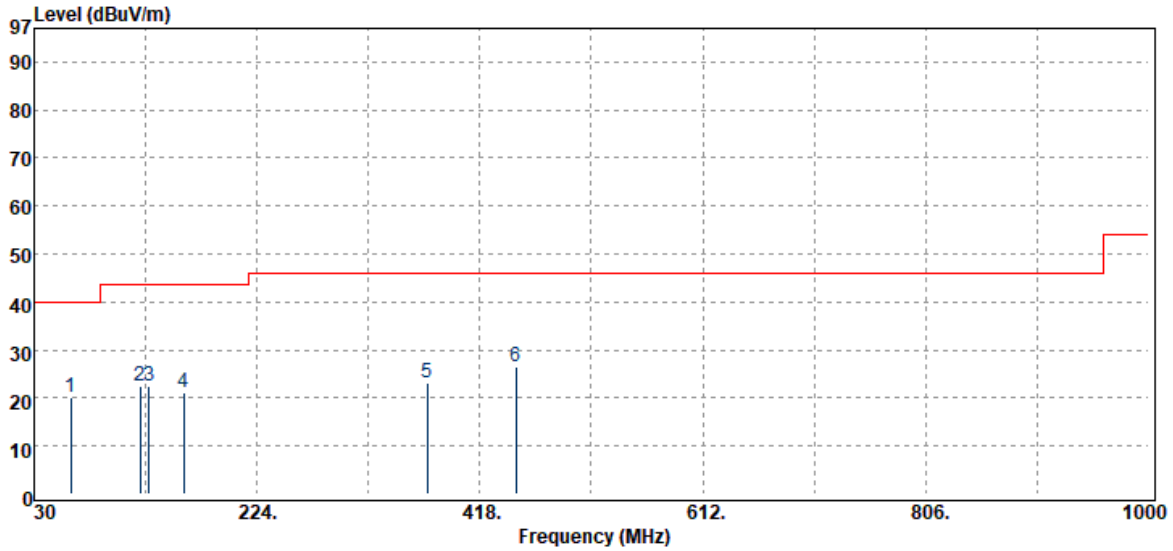
11.7 Radiated Spurious Emission Measurement Result

11.7.1 Below 1GHz Worst-Case Data:

Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-17
Test Frequency	:5220 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
62.01	Peak	29.16	-9.06	20.10	40.00	-19.90
122.15	Peak	31.91	-9.51	22.40	43.50	-21.10
129.91	Peak	31.19	-8.55	22.64	43.50	-20.86
159.98	Peak	28.31	-7.23	21.08	43.50	-22.42
372.41	Peak	27.95	-4.69	23.26	46.00	-22.74
449.04	Peak	29.00	-2.57	26.43	46.00	-19.57

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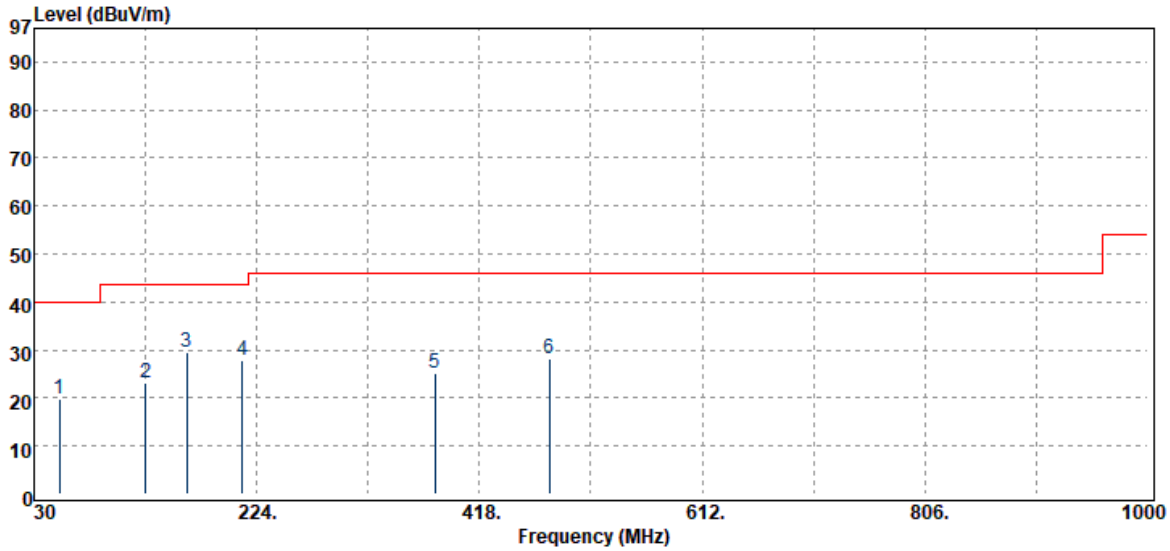
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-17
Test Frequency	:5220 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
52.31	Peak	28.09	-8.26	19.83	40.00	-20.17
127.00	Peak	32.12	-8.87	23.25	43.50	-20.25
162.89	Peak	36.88	-7.29	29.59	43.50	-13.91
211.39	Peak	37.39	-9.59	27.80	43.50	-15.70
379.20	Peak	29.65	-4.60	25.05	46.00	-20.95
479.11	Peak	30.72	-2.44	28.28	46.00	-17.72

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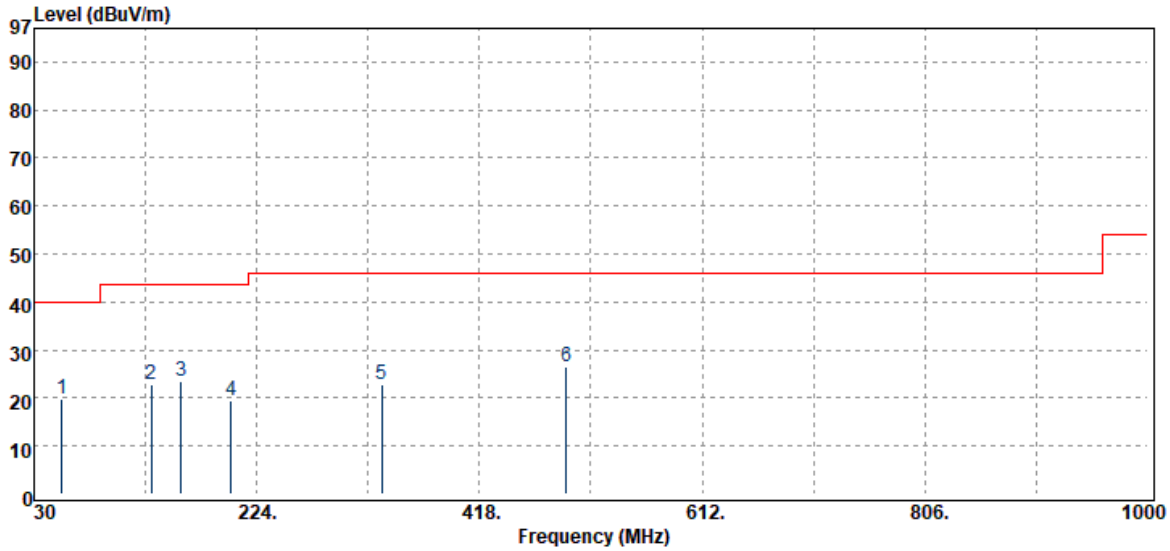
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-17
Test Frequency	:5300 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
54.25	Peak	28.08	-8.27	19.81	40.00	-20.19
131.85	Peak	31.31	-8.42	22.89	43.50	-20.61
158.04	Peak	30.83	-7.36	23.47	43.50	-20.03
201.69	Peak	29.04	-9.67	19.37	43.50	-24.13
332.64	Peak	27.94	-5.09	22.85	46.00	-23.15
493.66	Peak	29.14	-2.64	26.50	46.00	-19.50

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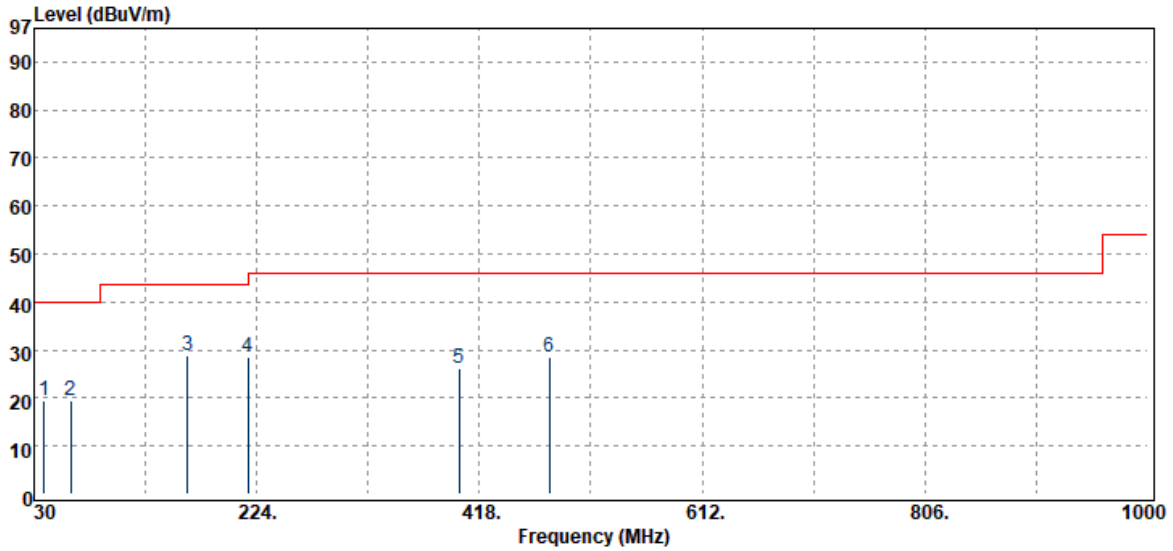
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-17
Test Frequency	:5300 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
38.73	Peak	28.02	-8.57	19.45	40.00	-20.55
62.01	Peak	28.37	-9.06	19.31	40.00	-20.69
163.86	Peak	36.35	-7.36	28.99	43.50	-14.51
216.24	Peak	37.89	-9.30	28.59	46.00	-17.41
400.54	Peak	30.70	-4.38	26.32	46.00	-19.68
479.11	Peak	31.00	-2.44	28.56	46.00	-17.44

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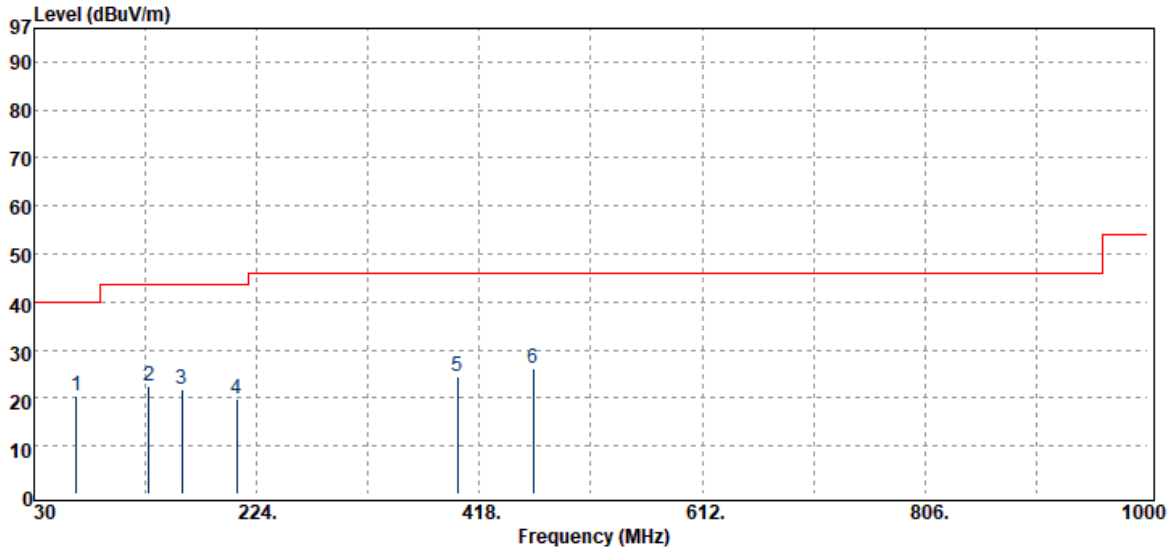
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-17
Test Frequency	:5580 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
66.86	Peak	30.26	-9.71	20.55	40.00	-19.45
129.91	Peak	31.20	-8.55	22.65	43.50	-20.85
159.01	Peak	29.23	-7.34	21.89	43.50	-21.61
206.54	Peak	29.46	-9.75	19.71	43.50	-23.79
398.60	Peak	28.84	-4.36	24.48	46.00	-21.52
464.56	Peak	28.43	-2.33	26.10	46.00	-19.90

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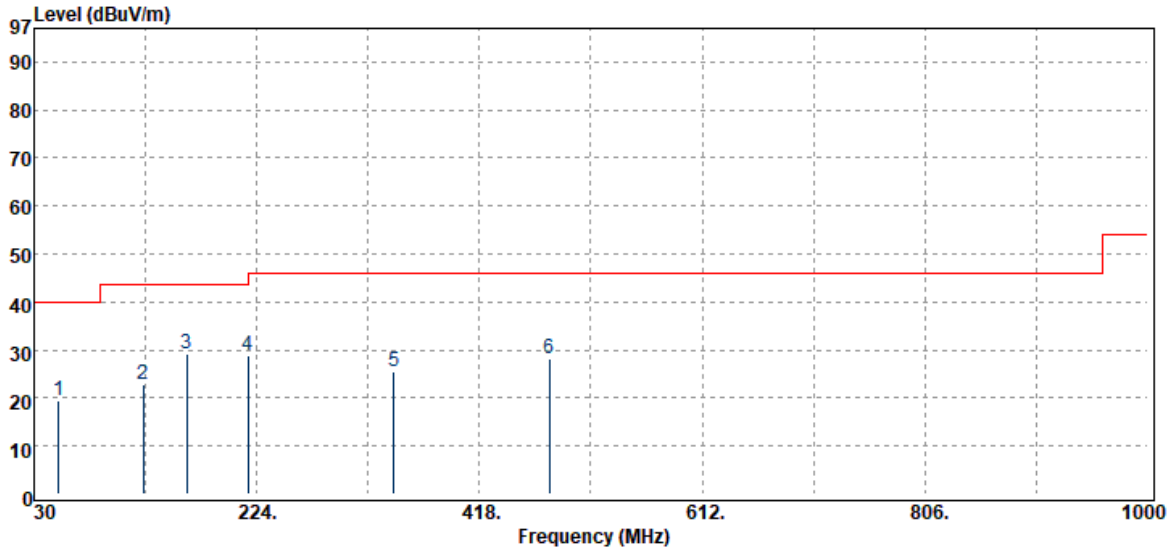
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-17
Test Frequency	:5580 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
51.34	Peak	27.52	-8.18	19.34	40.00	-20.66
125.06	Peak	31.89	-9.19	22.70	43.50	-20.80
162.89	Peak	36.57	-7.29	29.28	43.50	-14.22
216.24	Peak	38.11	-9.30	28.81	46.00	-17.19
343.31	Peak	30.59	-4.97	25.62	46.00	-20.38
479.11	Peak	30.54	-2.44	28.10	46.00	-17.90

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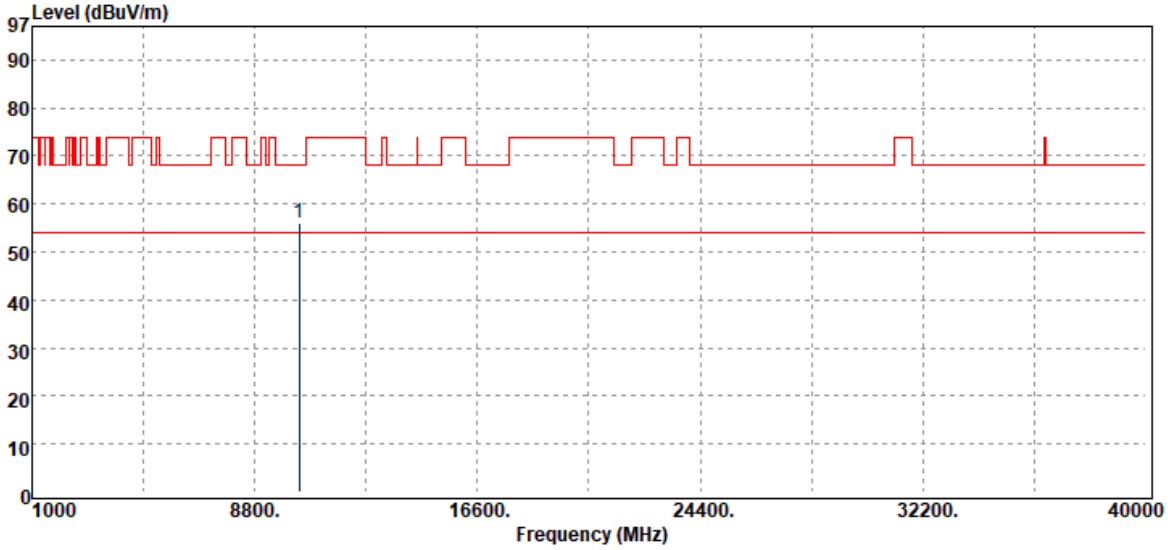
11.7.2 Above 1GHz Worst-Case Data:

Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5180 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	35.57	20.59	56.16	68.20	-12.04

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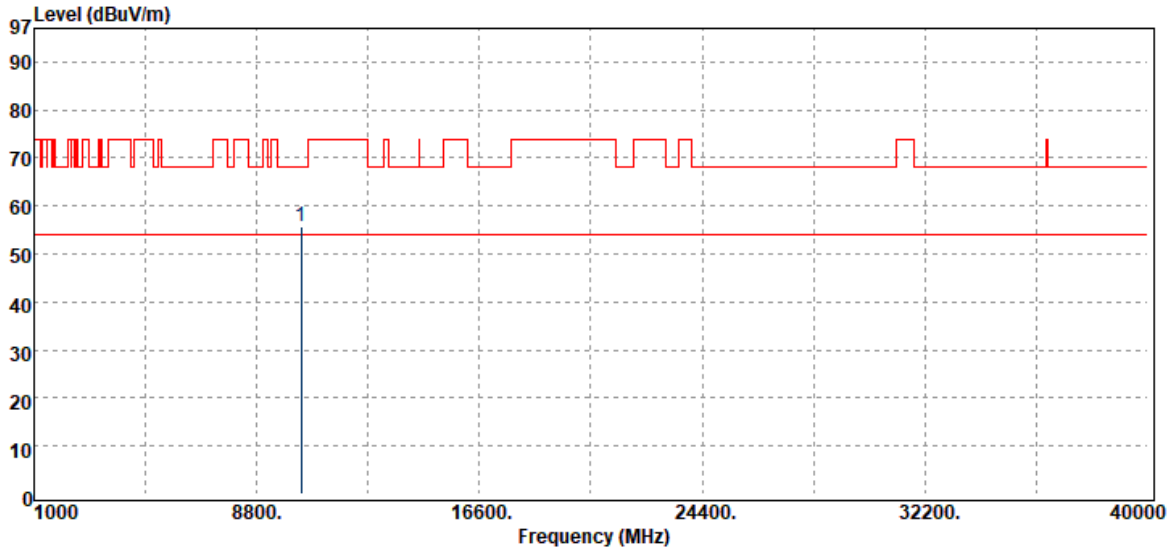
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5180 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	35.29	20.59	55.88	68.20	-12.32

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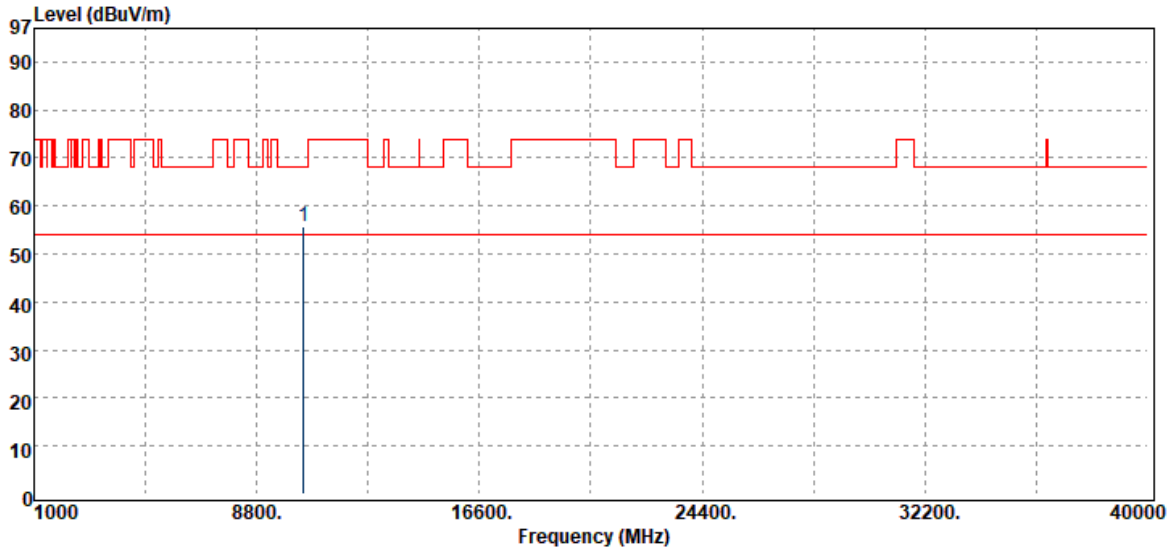
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5220 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	34.64	21.08	55.72	68.20	-12.48

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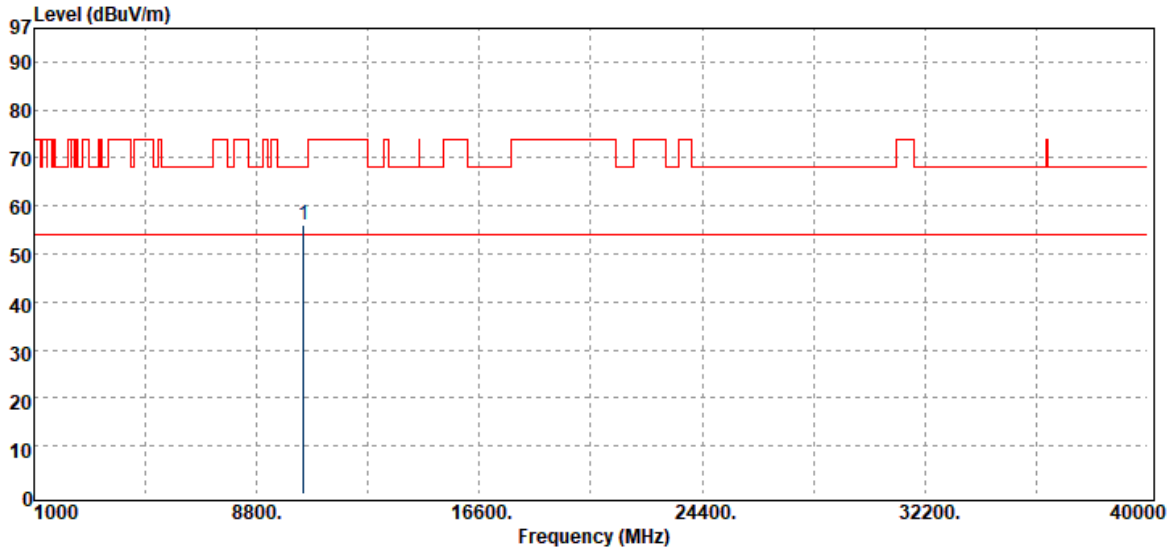
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5220 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	34.83	21.08	55.91	68.20	-12.29

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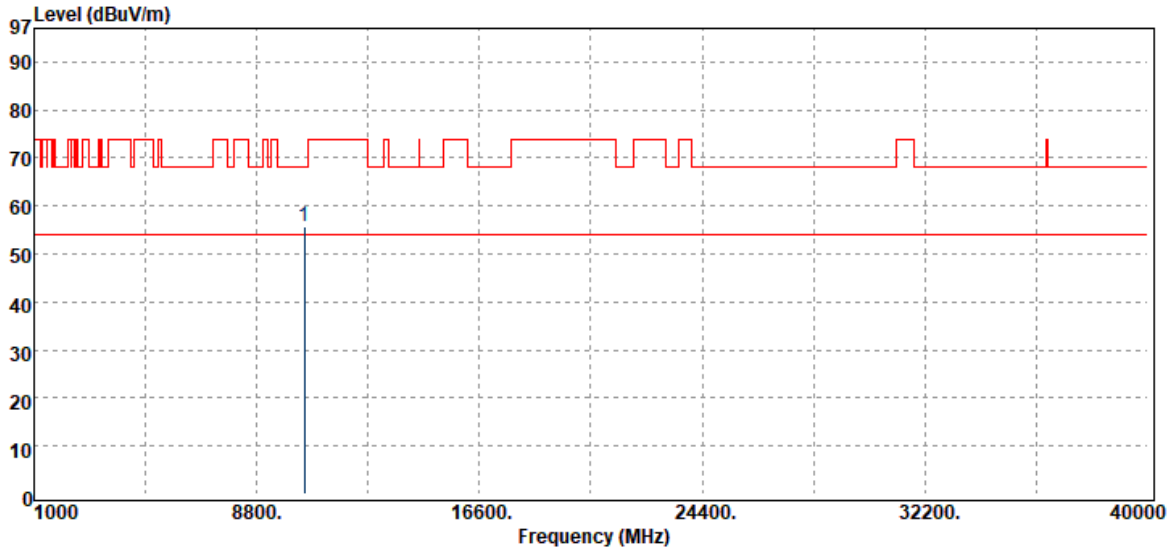
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5240 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	34.49	21.21	55.70	68.20	-12.50

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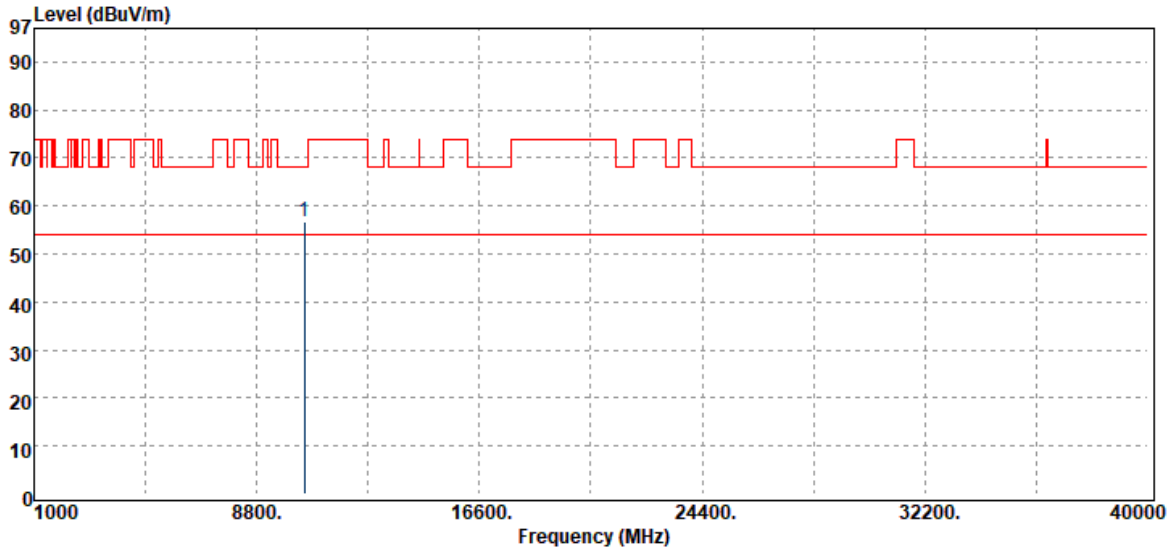
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5240 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	35.45	21.21	56.66	68.20	-11.54

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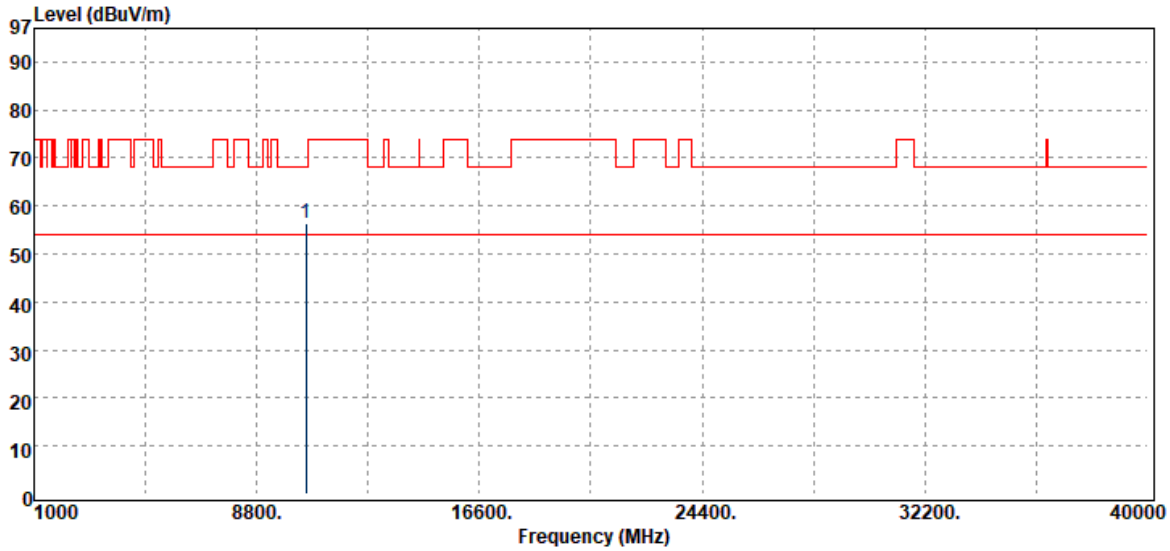
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5260 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	35.16	21.27	56.43	68.20	-11.77

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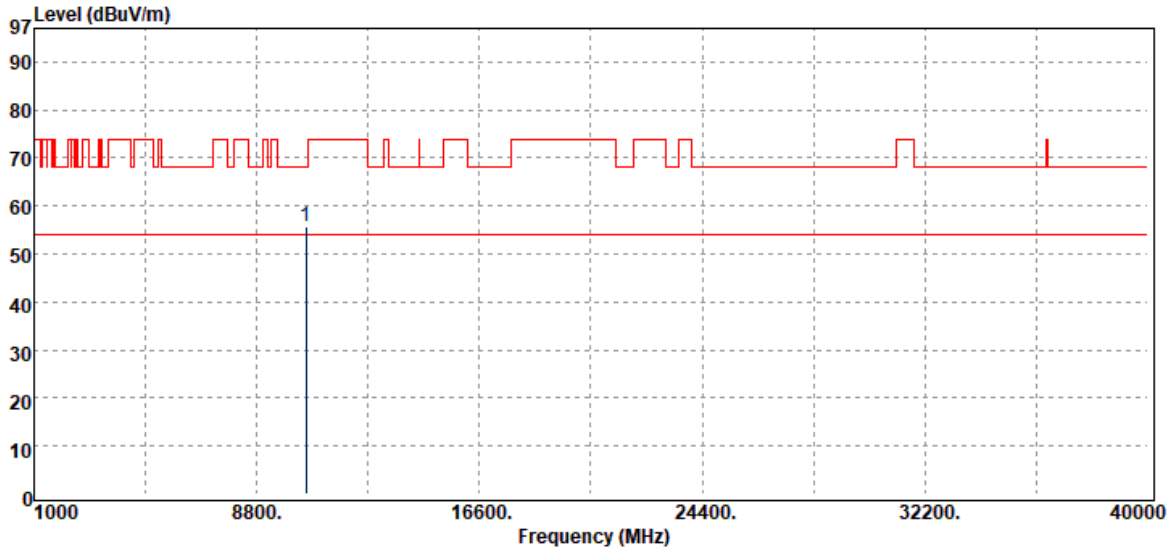
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5260 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	34.52	21.27	55.79	68.20	-12.41

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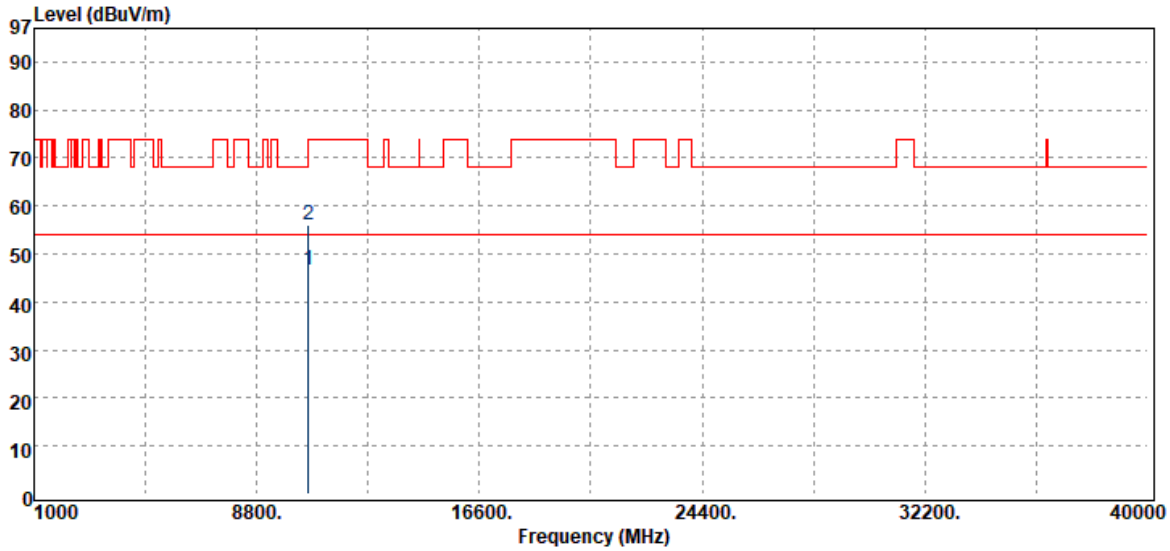
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5300 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	25.24	21.27	46.51	54.00	-7.49
10600.00	Peak	34.82	21.27	56.09	74.00	-17.91

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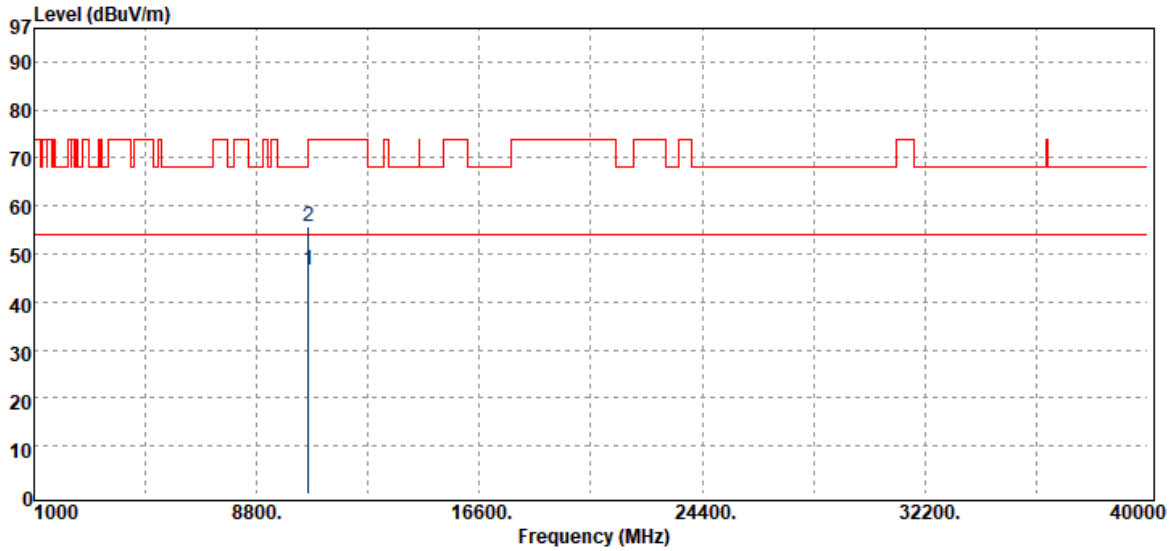
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5300 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	25.26	21.27	46.53	54.00	-7.47
10600.00	Peak	34.31	21.27	55.58	74.00	-18.42

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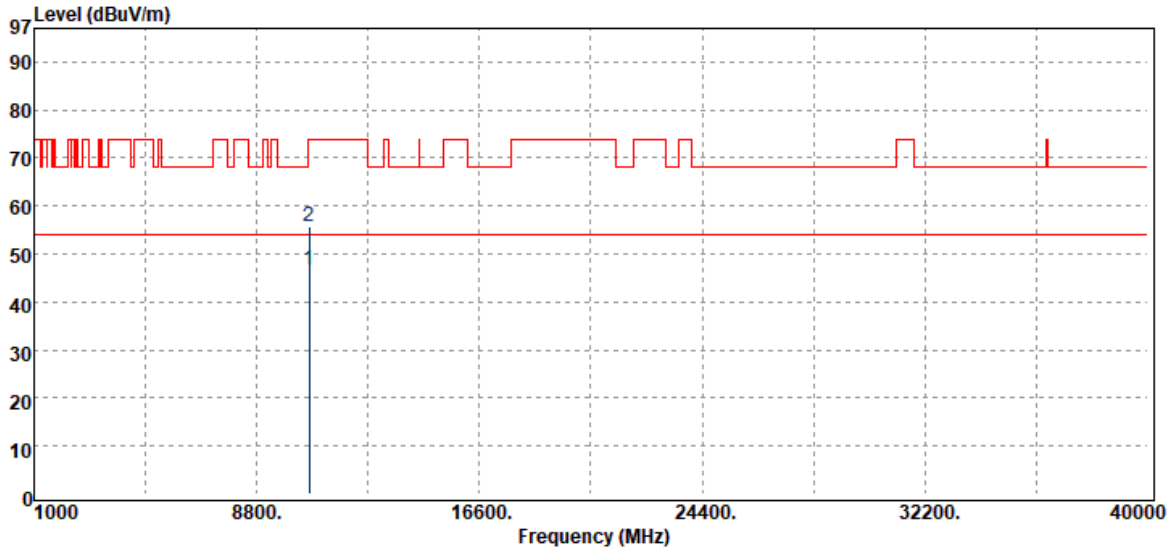
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5320 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	25.28	21.21	46.49	54.00	-7.51
10640.00	Peak	34.60	21.21	55.81	74.00	-18.19

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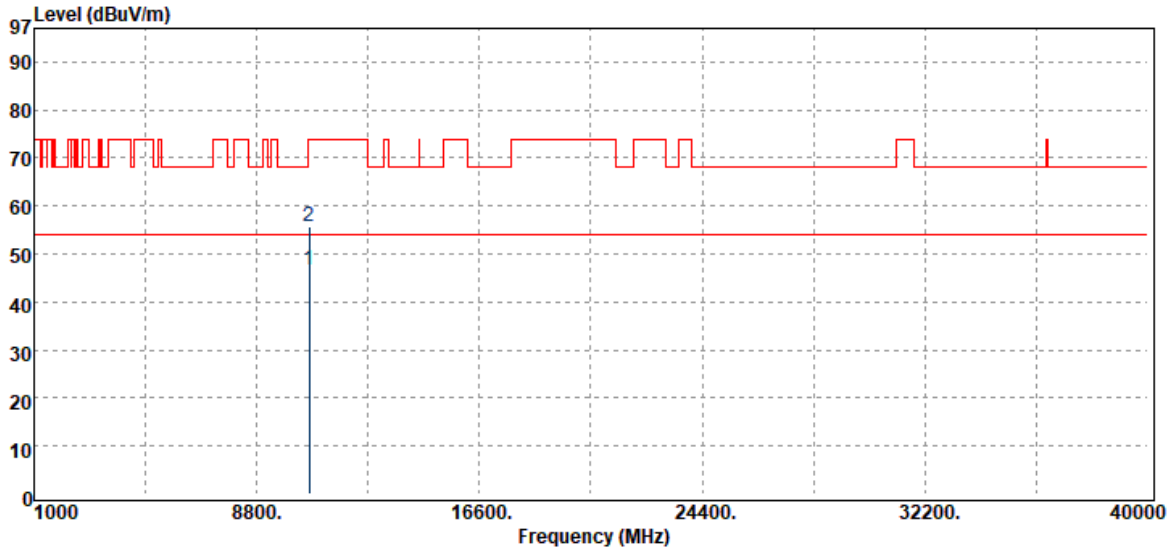
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5320 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	25.30	21.21	46.51	54.00	-7.49
10640.00	Peak	34.47	21.21	55.68	74.00	-18.32

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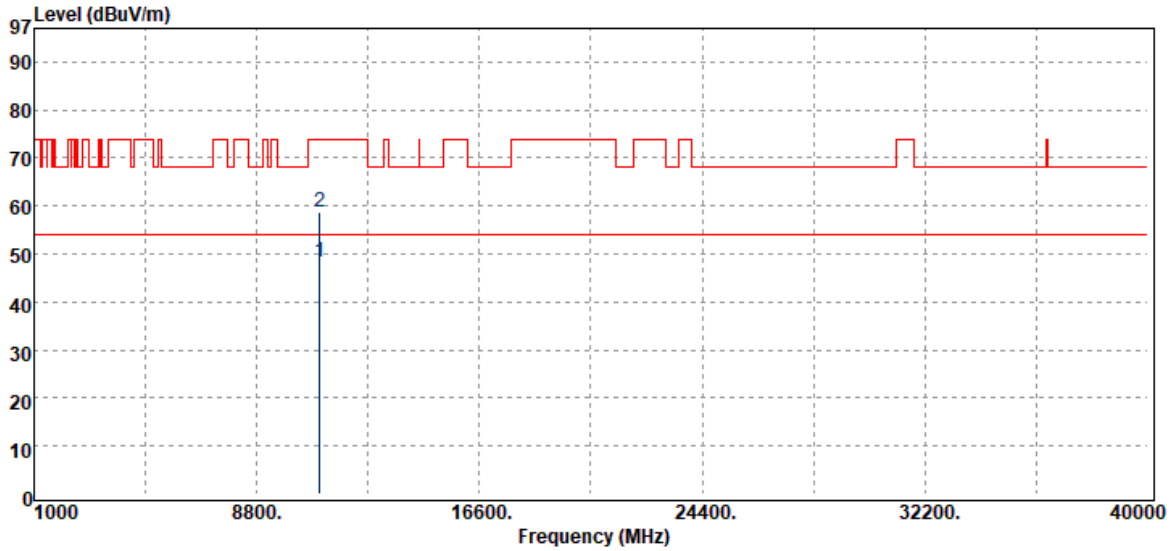
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5500 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	24.97	23.37	48.34	54.00	-5.66
11000.00	Peak	35.40	23.37	58.77	74.00	-15.23

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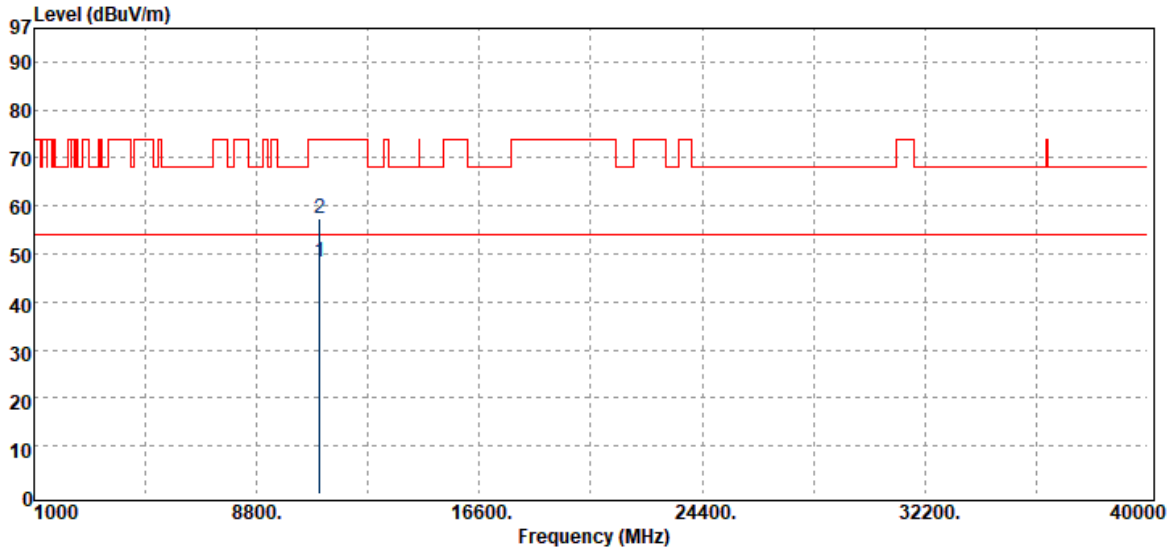
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5500 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	24.99	23.37	48.36	54.00	-5.64
11000.00	Peak	33.97	23.37	57.34	74.00	-16.66

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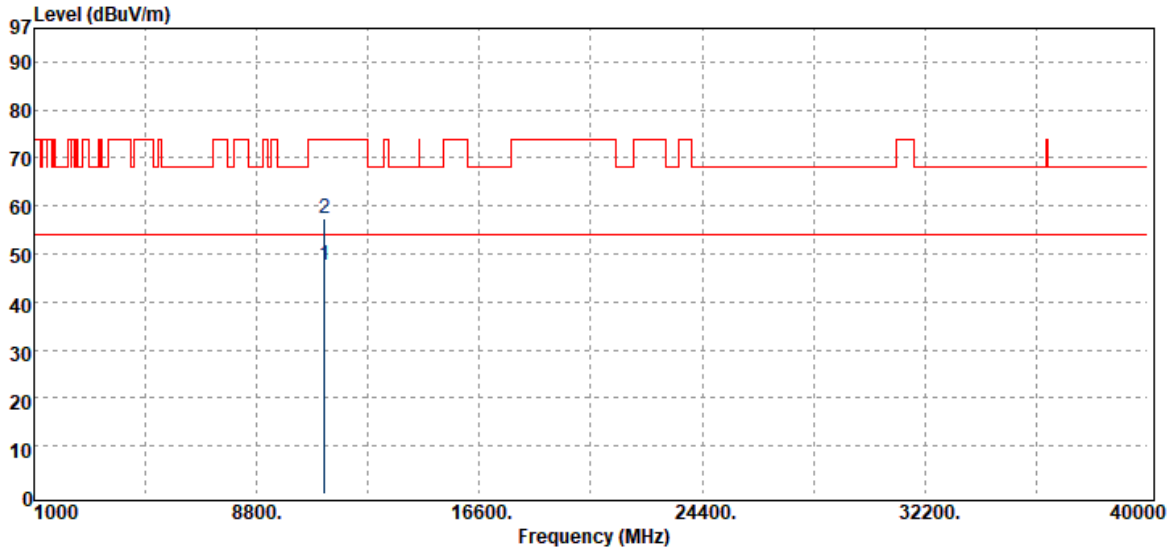
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5580 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	25.36	22.20	47.56	54.00	-6.44
11160.00	Peak	35.04	22.20	57.24	74.00	-16.76

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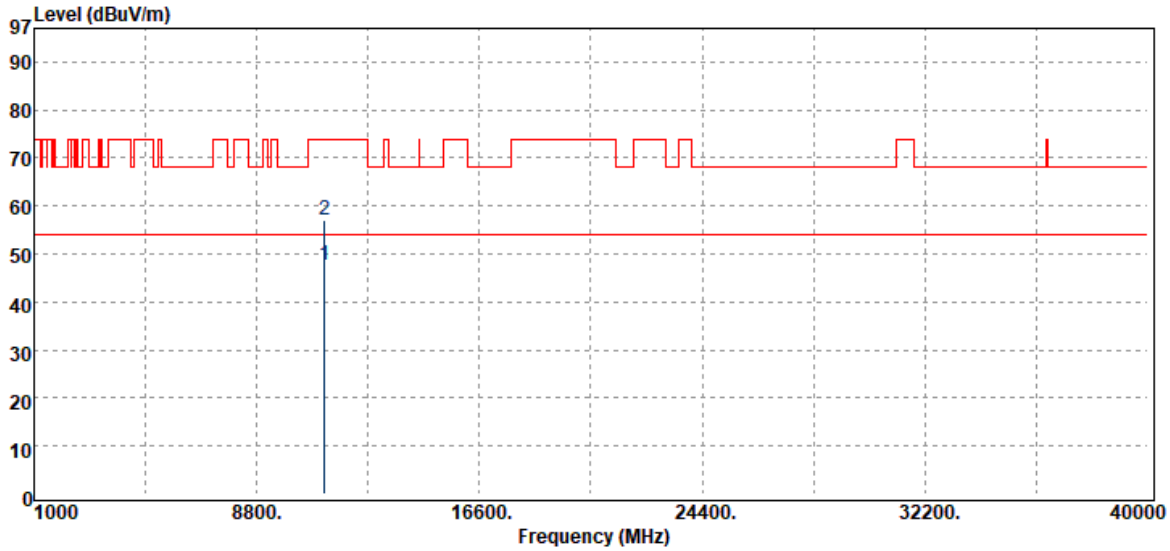
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5580 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	25.35	22.20	47.55	54.00	-6.45
11160.00	Peak	34.69	22.20	56.89	74.00	-17.11

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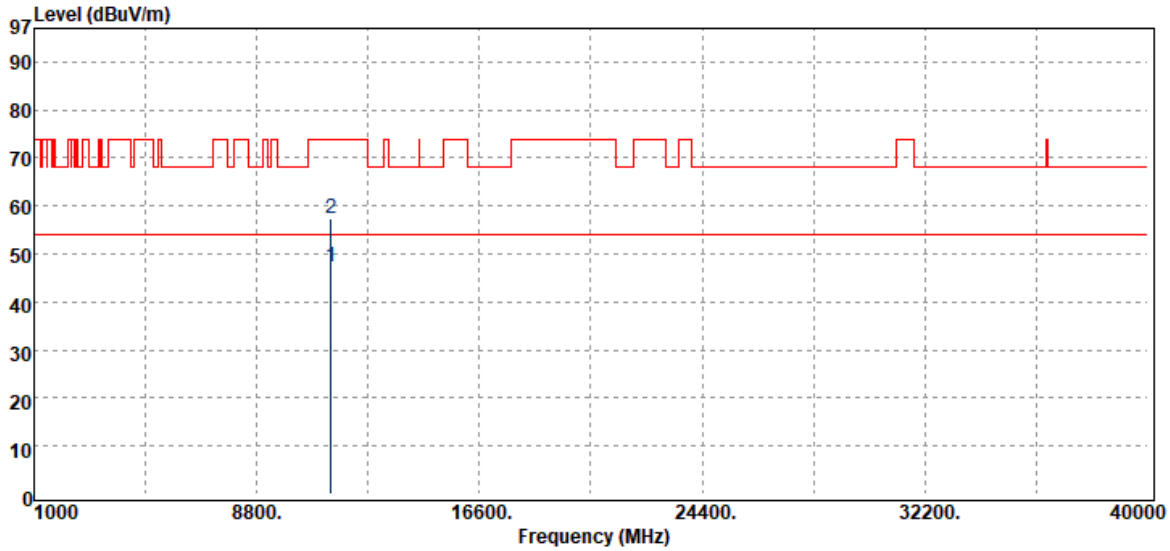
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5700 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	24.96	22.22	47.18	54.00	-6.82
11400.00	Peak	35.07	22.22	57.29	74.00	-16.71

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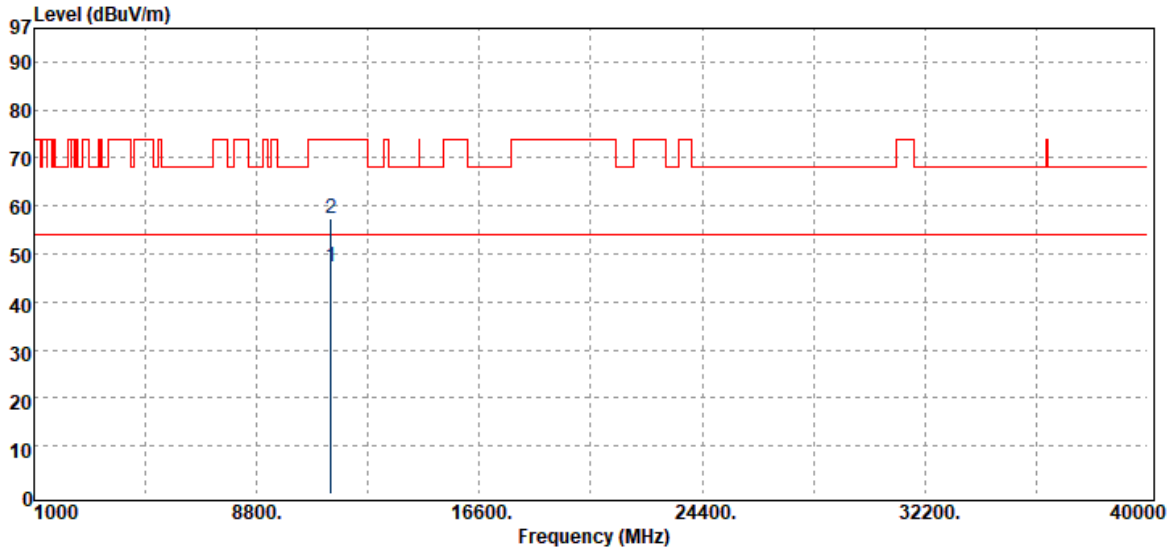
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5700 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	25.00	22.22	47.22	54.00	-6.78
11400.00	Peak	35.23	22.22	57.45	74.00	-16.55

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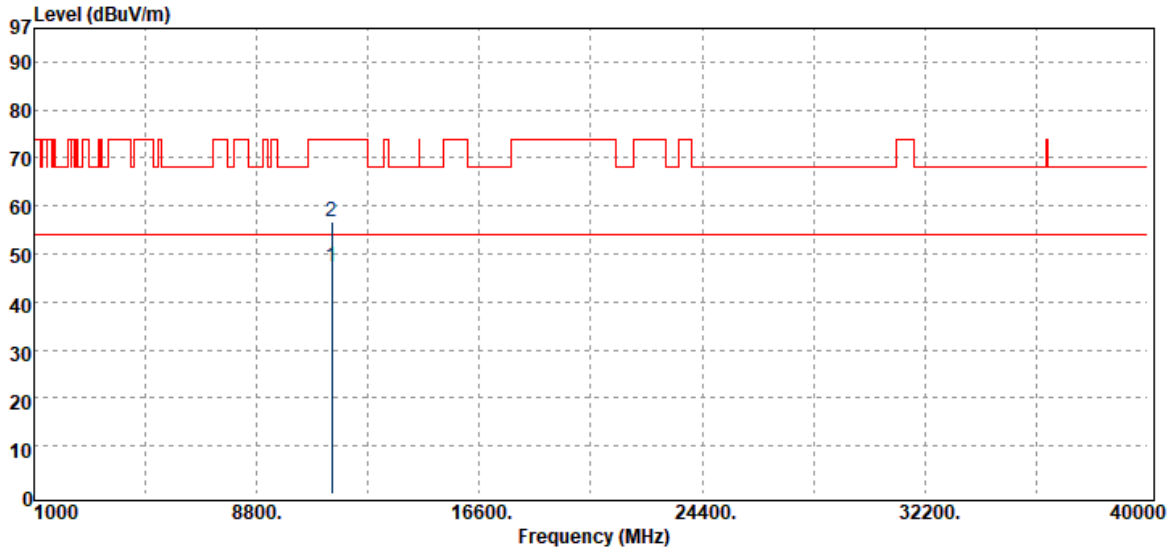
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5720 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	24.61	22.66	47.27	54.00	-6.73
11440.00	Peak	33.97	22.66	56.63	74.00	-17.37

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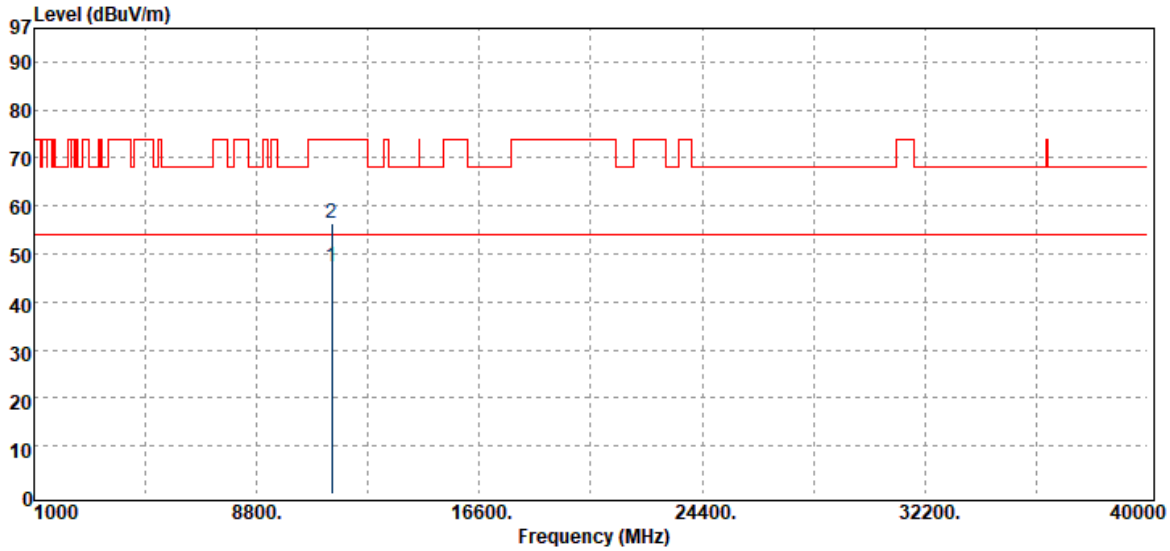
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5720 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	24.61	22.66	47.27	54.00	-6.73
11440.00	Peak	33.84	22.66	56.50	74.00	-17.50

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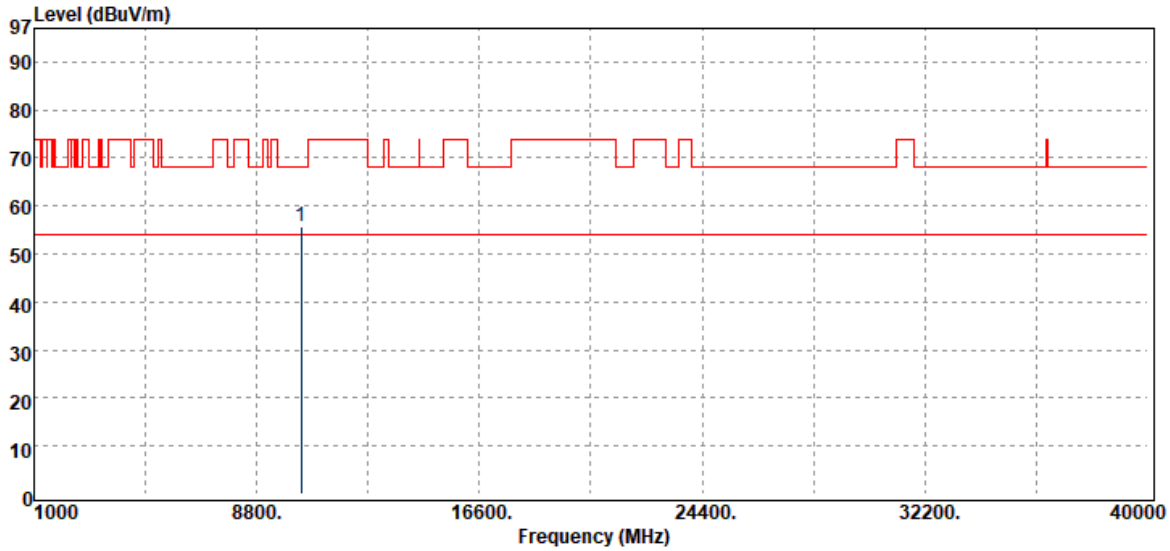
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5180 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	35.11	20.59	55.70	68.20	-12.50

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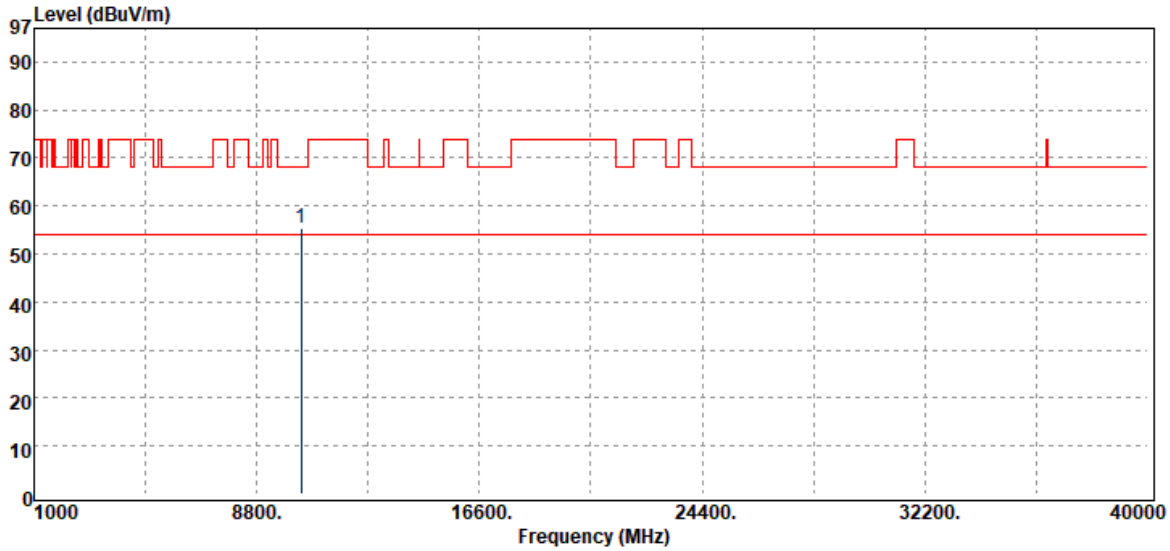
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5180 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	34.77	20.59	55.36	68.20	-12.84

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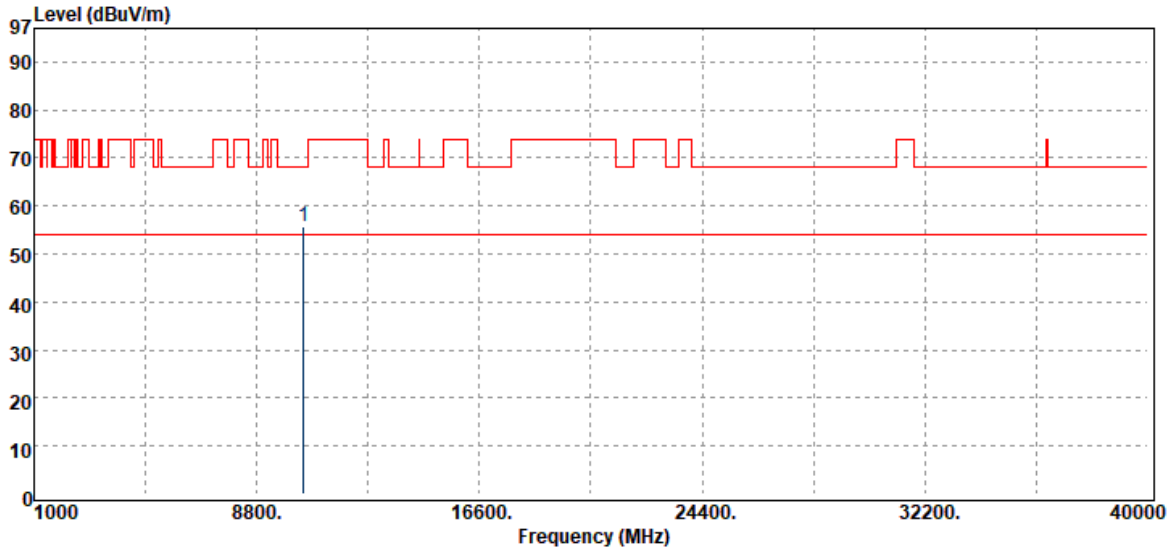
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5220 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	34.64	21.08	55.72	68.20	-12.48

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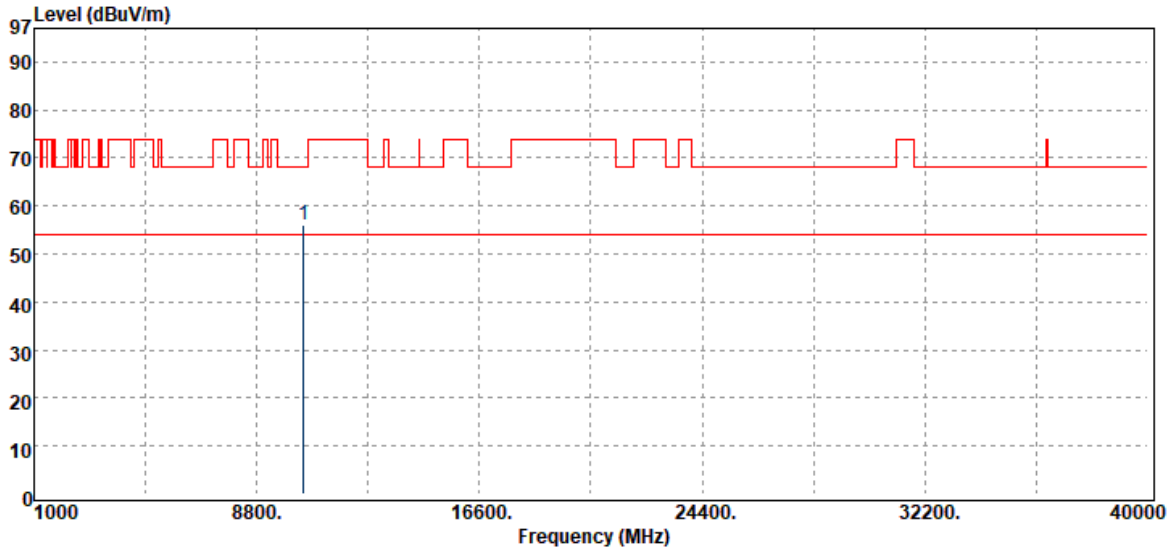
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5220 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	34.95	21.08	56.03	68.20	-12.17

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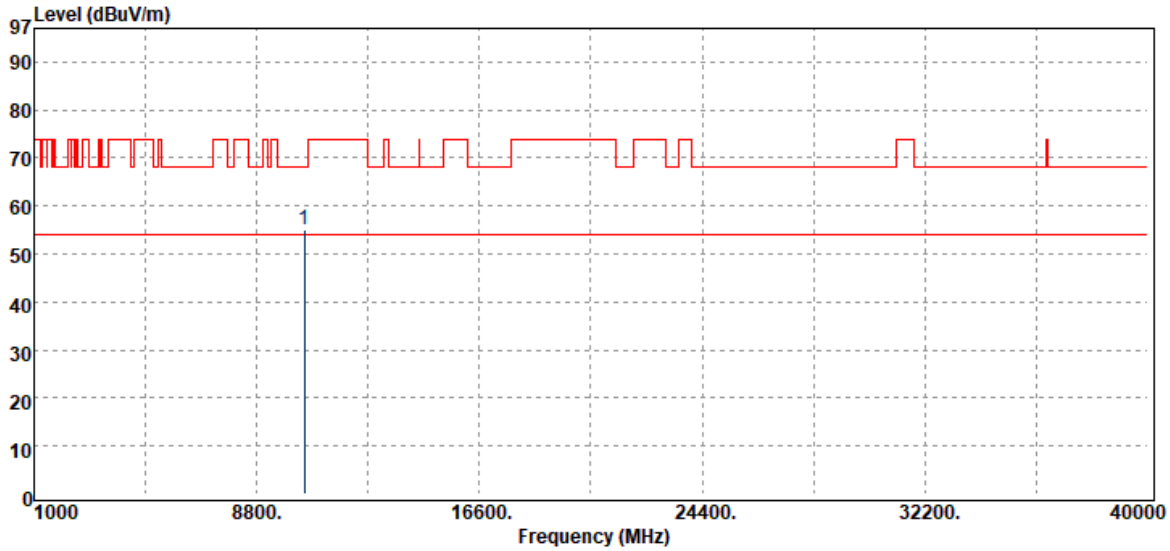
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5240 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	Peak	33.90	21.21	55.11	68.20	-13.09

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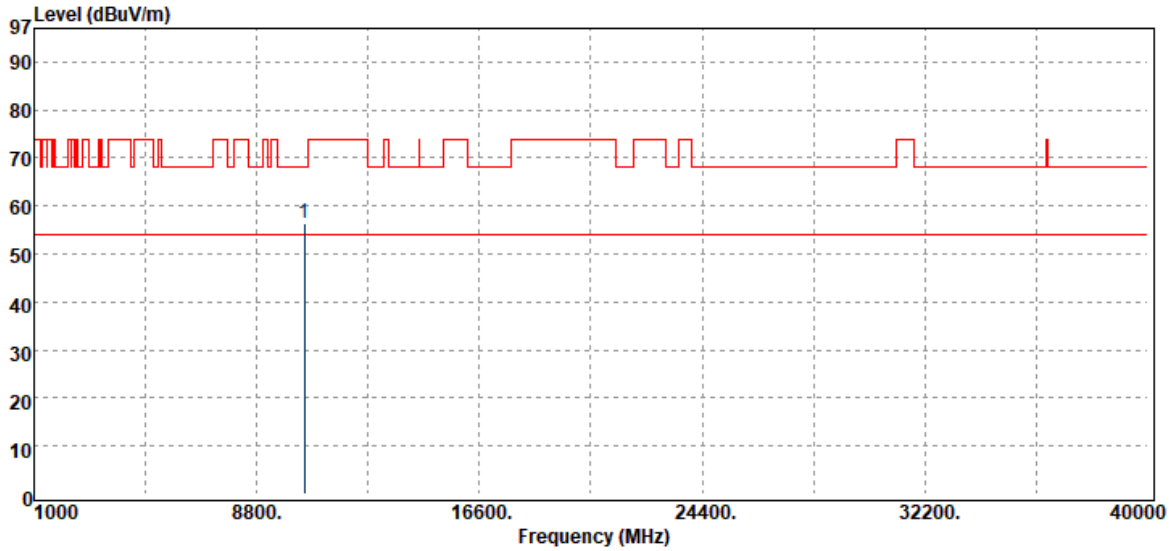
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5240 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	35.20	21.21	56.41	68.20	-11.79

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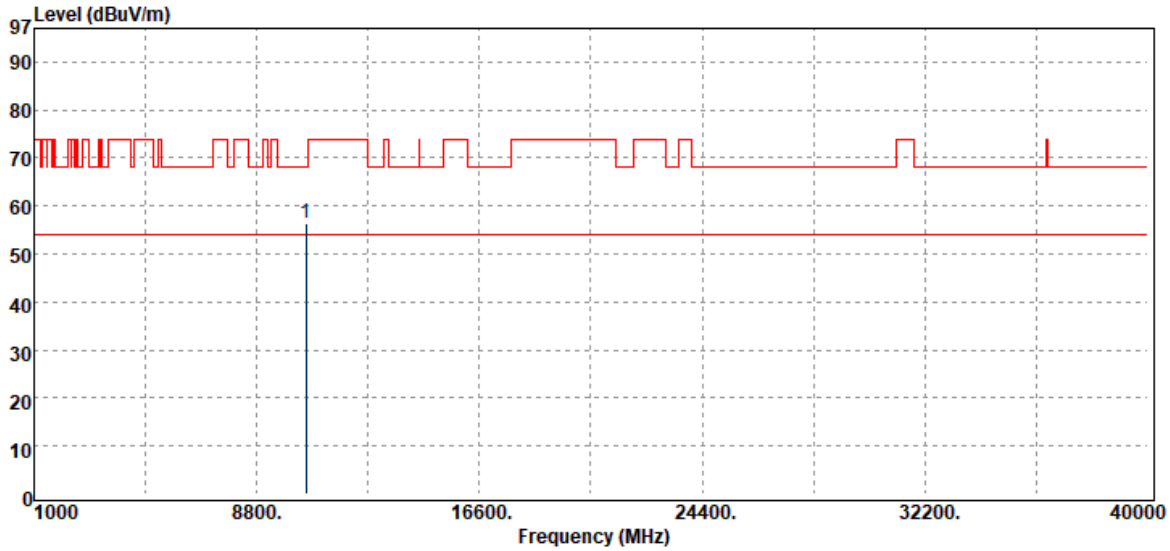
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5260 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	35.16	21.27	56.43	68.20	-11.77

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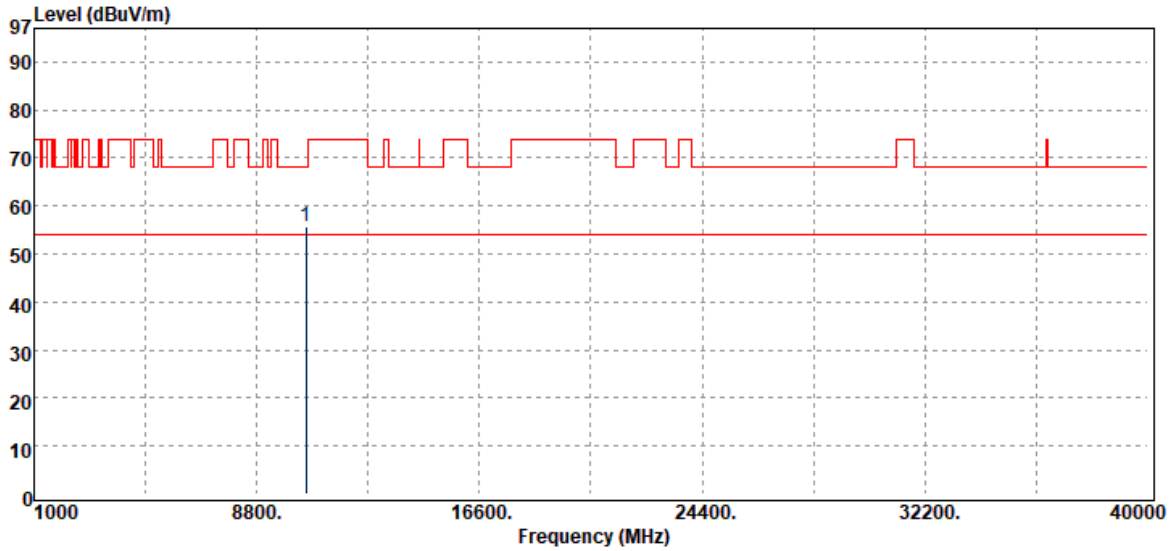
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5260 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	34.36	21.27	55.63	68.20	-12.57

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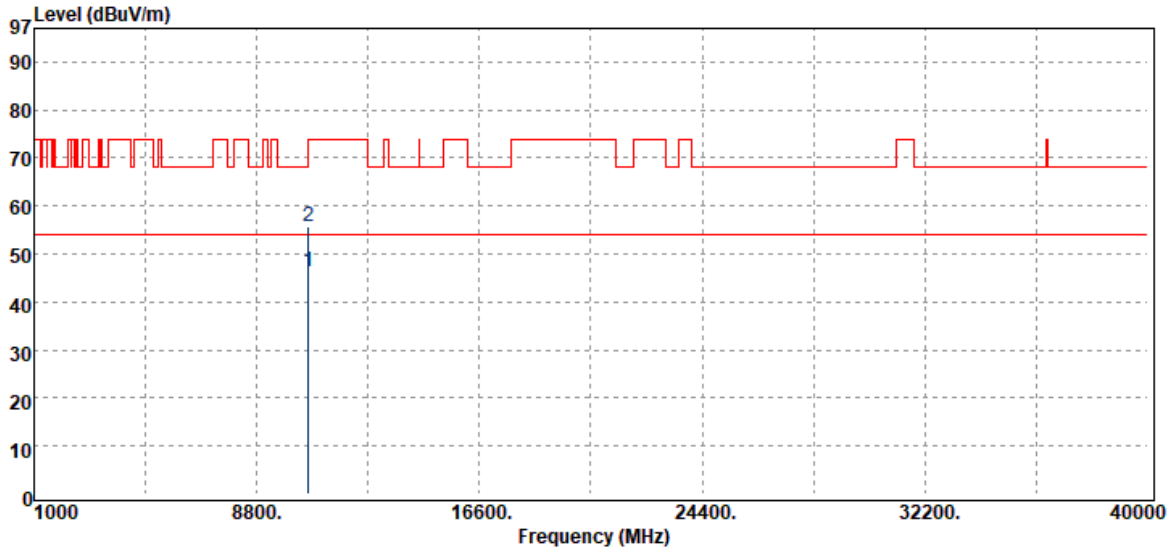
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5300 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	25.16	21.27	46.43	54.00	-7.57
10600.00	Peak	34.56	21.27	55.83	74.00	-18.17

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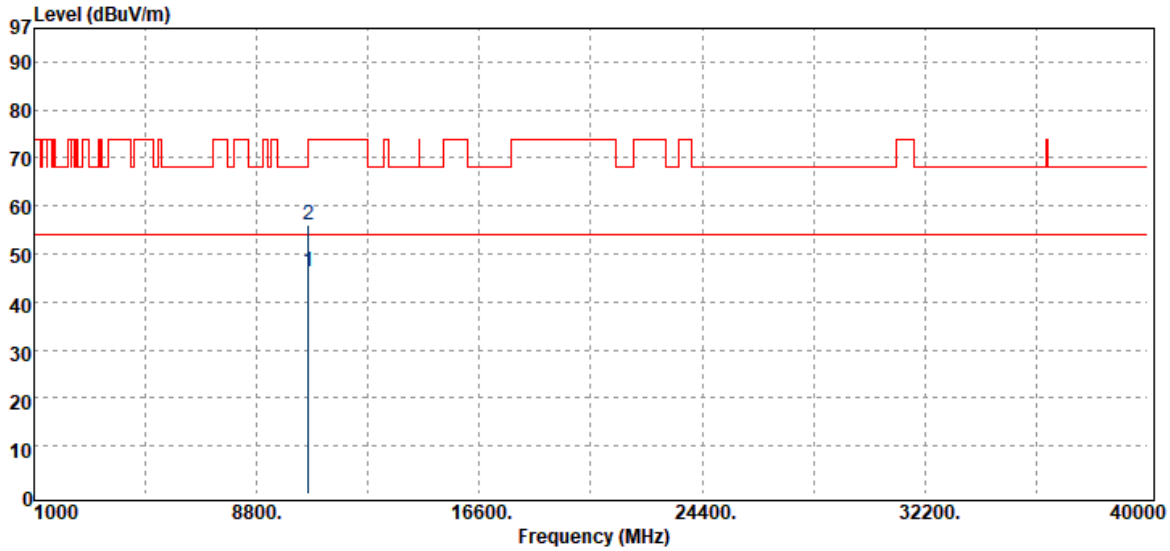
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5300 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	25.17	21.27	46.44	54.00	-7.56
10600.00	Peak	34.86	21.27	56.13	74.00	-17.87

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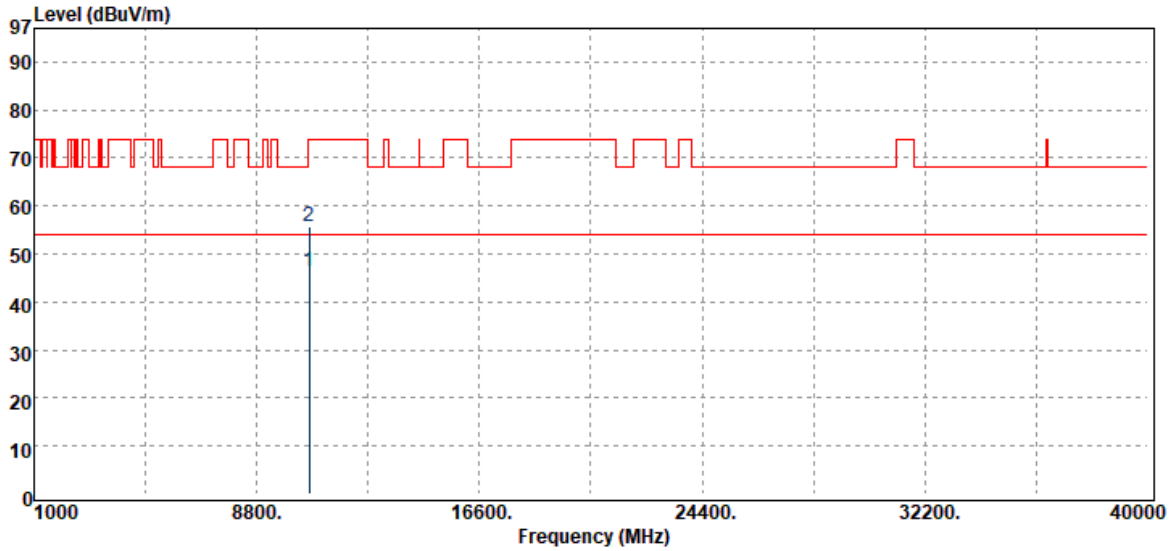
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5320 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	25.12	21.21	46.33	54.00	-7.67
10640.00	Peak	34.39	21.21	55.60	74.00	-18.40

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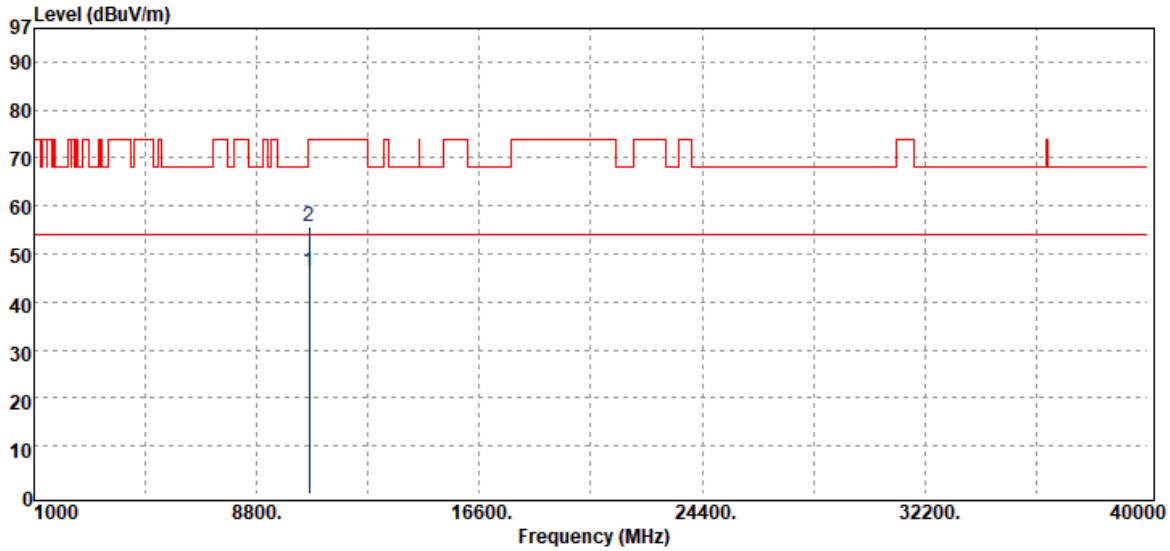
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5320 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	25.11	21.21	46.32	54.00	-7.68
10640.00	Peak	34.49	21.21	55.70	74.00	-18.30

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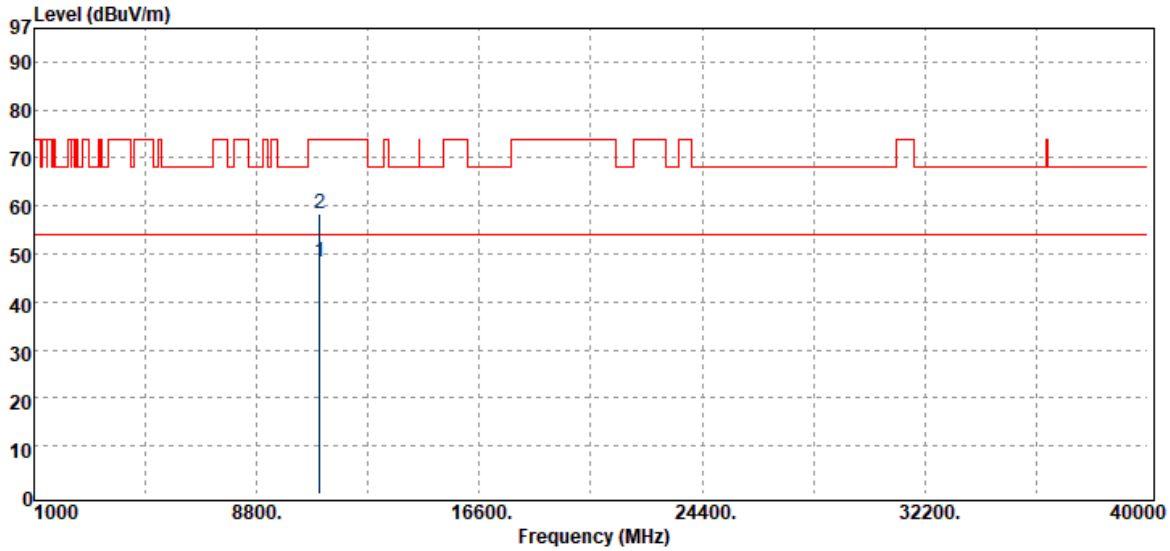
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5500 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	24.98	23.37	48.35	54.00	-5.65
11000.00	Peak	35.06	23.37	58.43	74.00	-15.57

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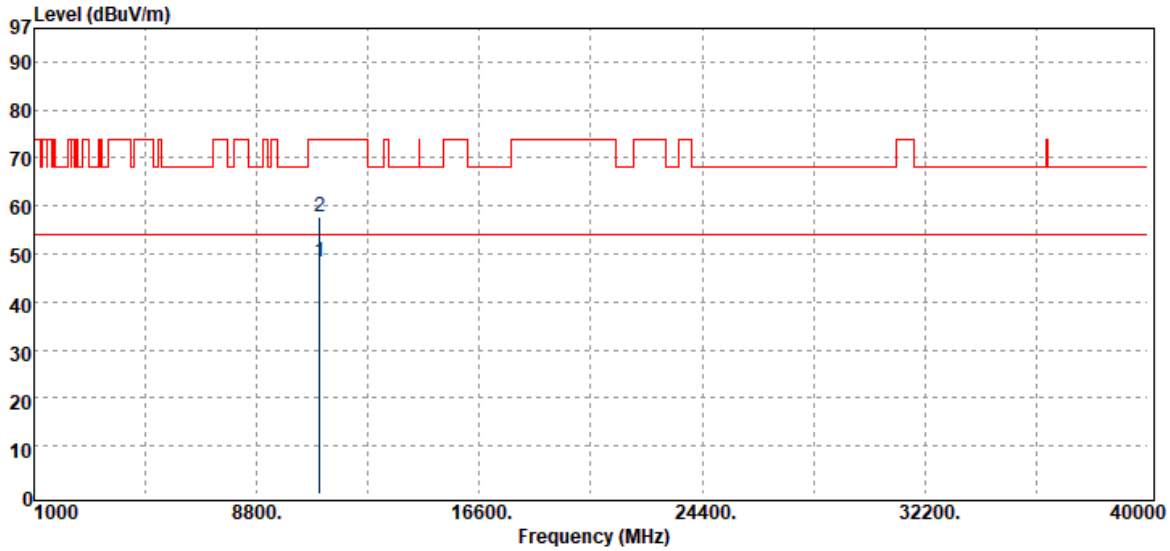
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5500 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	25.02	23.37	48.39	54.00	-5.61
11000.00	Peak	34.26	23.37	57.63	74.00	-16.37

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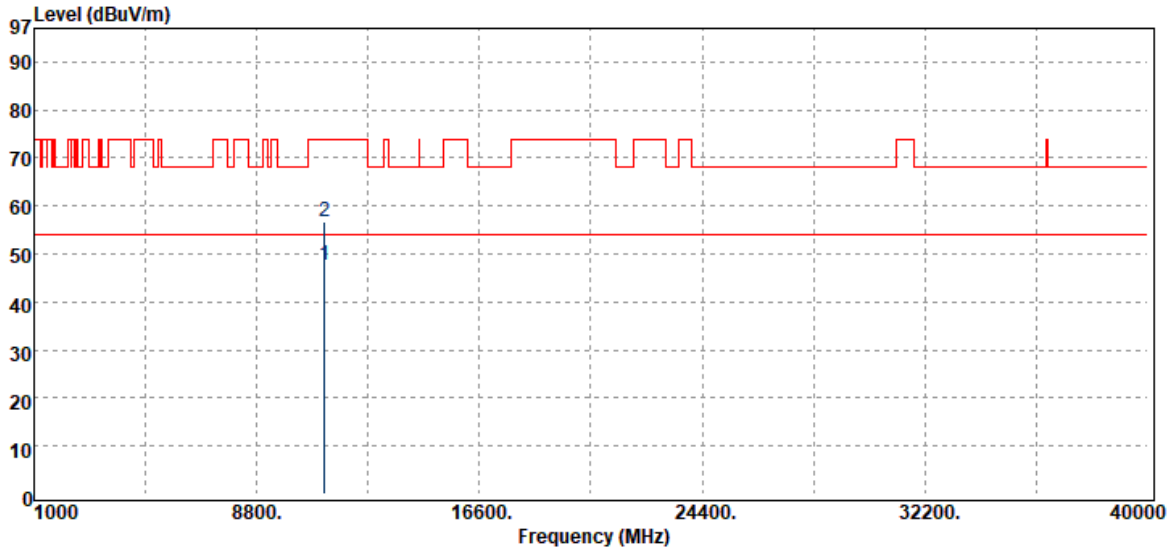
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5580 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	25.35	22.20	47.55	54.00	-6.45
11160.00	Peak	34.67	22.20	56.87	74.00	-17.13

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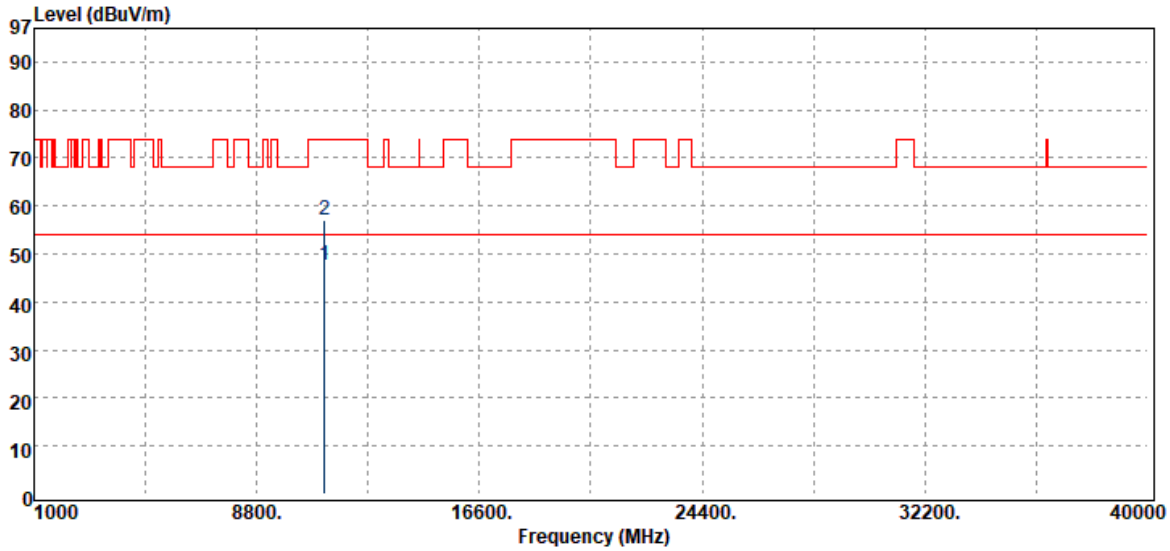
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5580 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	25.33	22.20	47.53	54.00	-6.47
11160.00	Peak	34.75	22.20	56.95	74.00	-17.05

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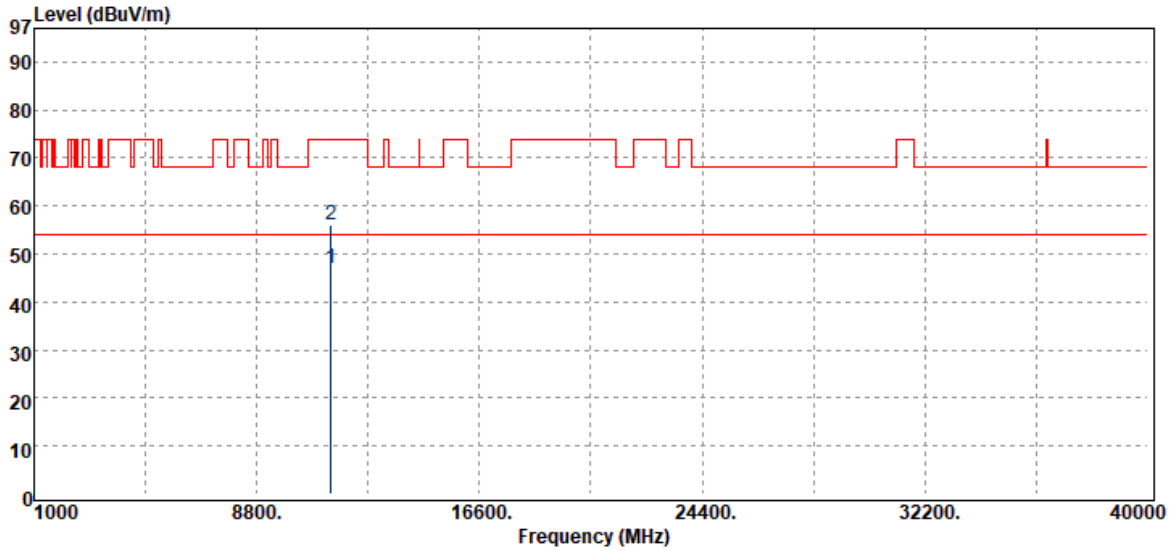
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5700 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	24.91	22.22	47.13	54.00	-6.87
11400.00	Peak	33.96	22.22	56.18	74.00	-17.82

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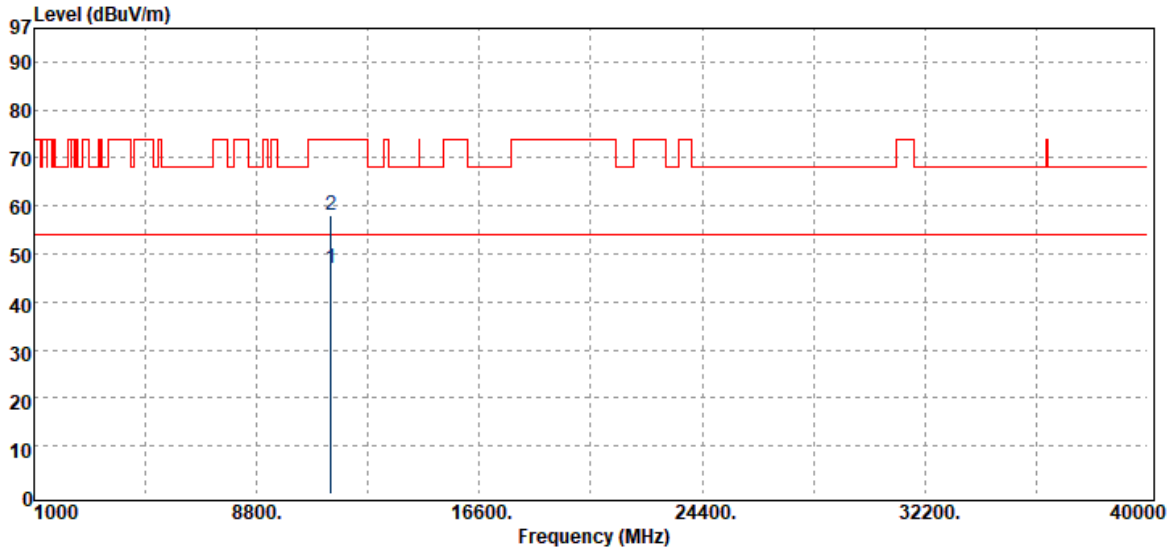
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5700 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	24.90	22.22	47.12	54.00	-6.88
11400.00	Peak	35.89	22.22	58.11	74.00	-15.89

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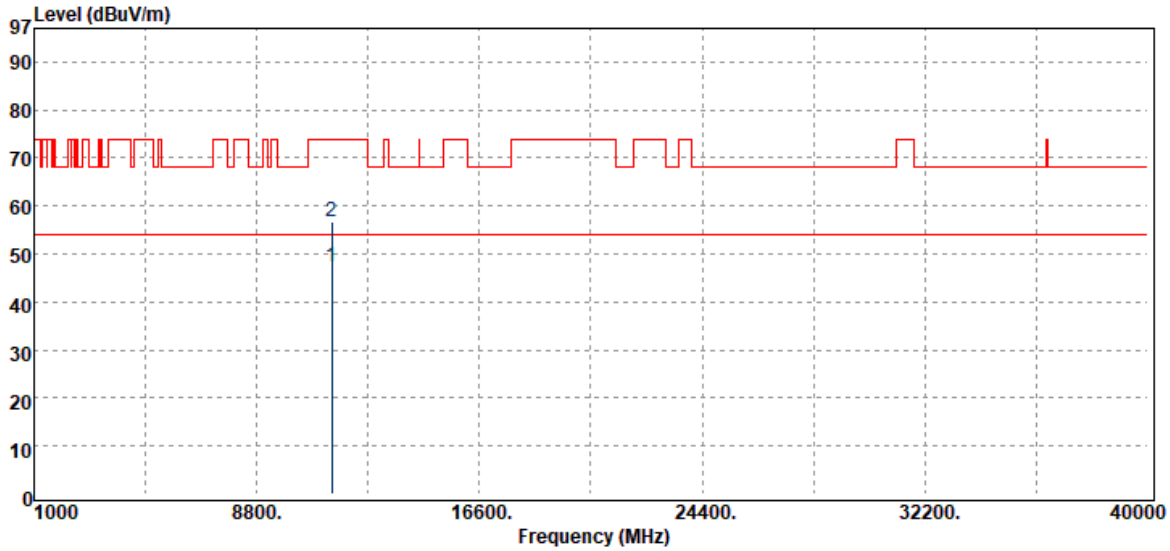
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5720 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	24.51	22.66	47.17	54.00	-6.83
11440.00	Peak	34.10	22.66	56.76	74.00	-17.24

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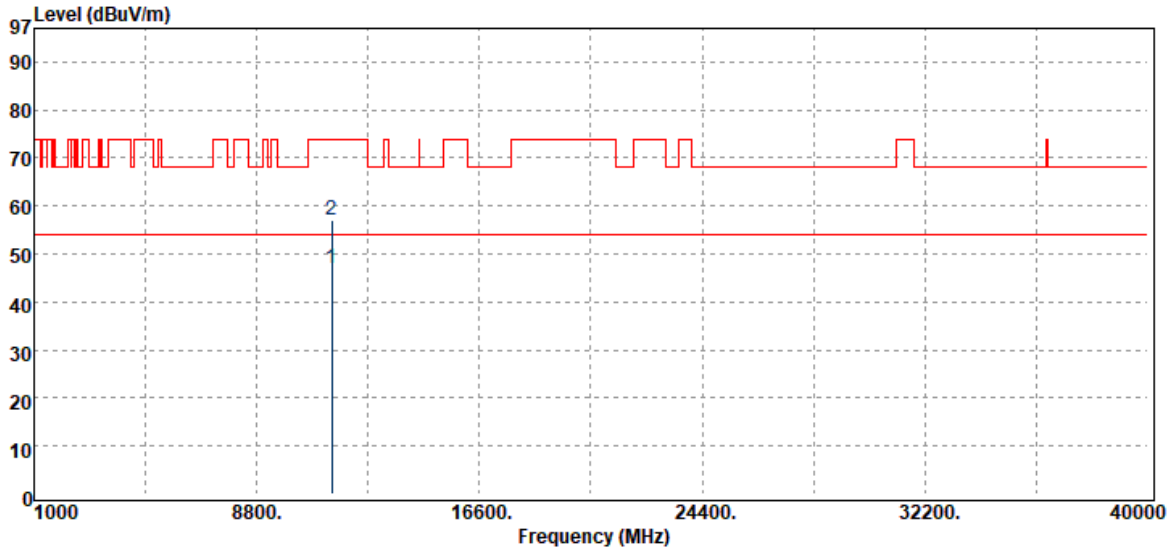
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5720 MHz	Temp./Humi.	:25.1/61
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	24.46	22.66	47.12	54.00	-6.88
11440.00	Peak	34.36	22.66	57.02	74.00	-16.98

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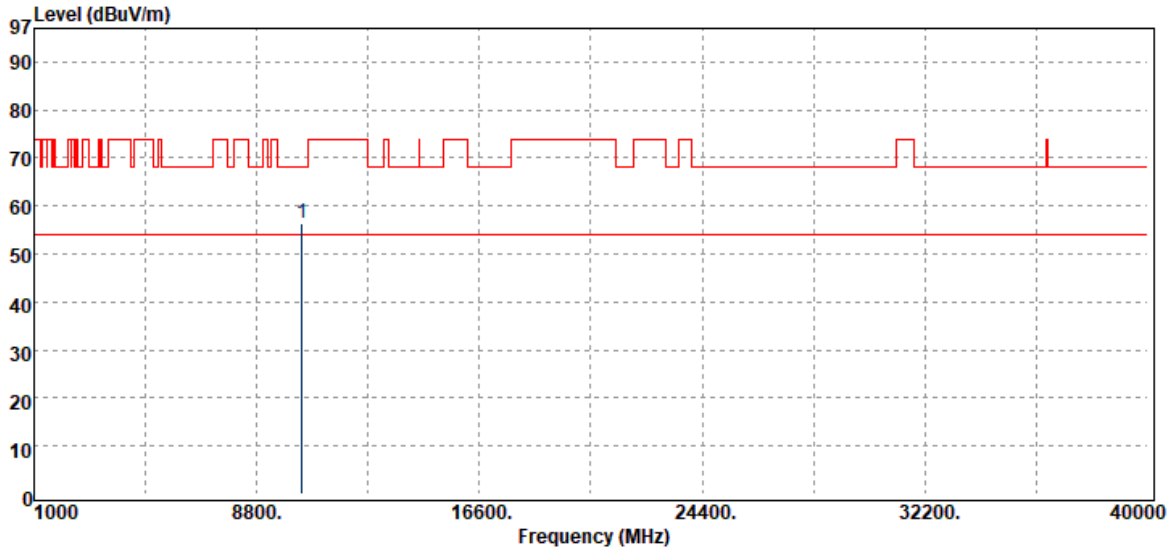
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-17
Test Frequency	:5190 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10380.00	Peak	35.63	20.61	56.24	68.20	-11.96

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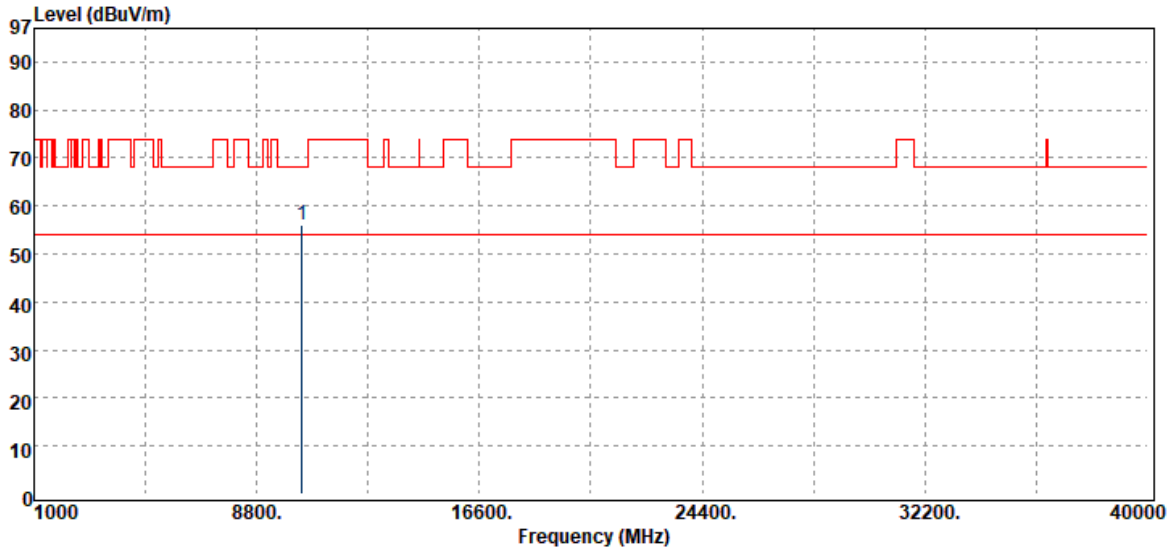
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-17
Test Frequency	:5190 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	35.31	20.61	55.92	68.20	-12.28

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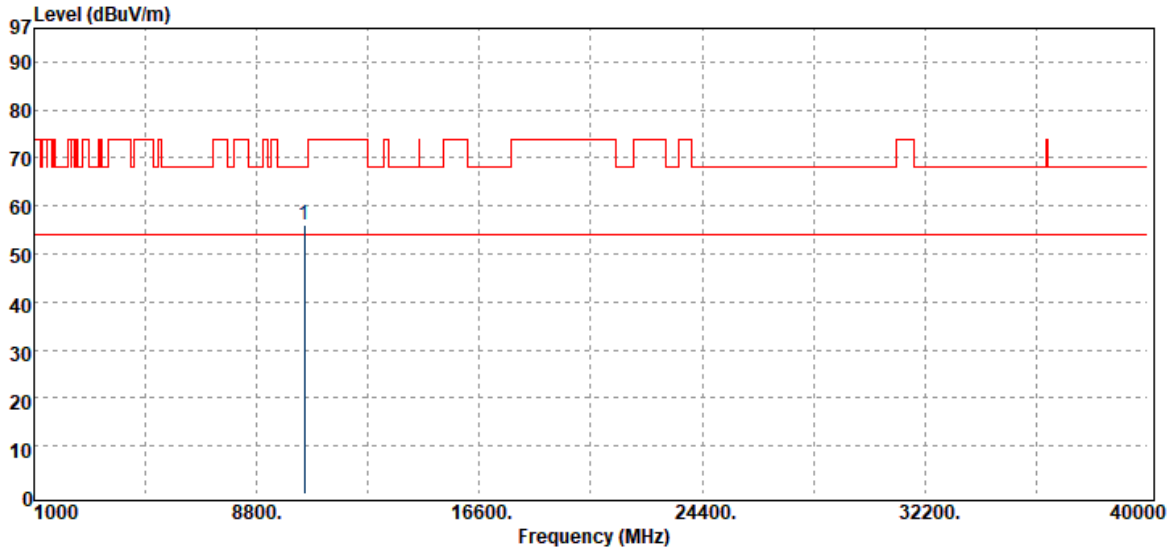
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-17
Test Frequency	:5230 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10460.00	Peak	34.89	21.20	56.09	68.20	-12.11

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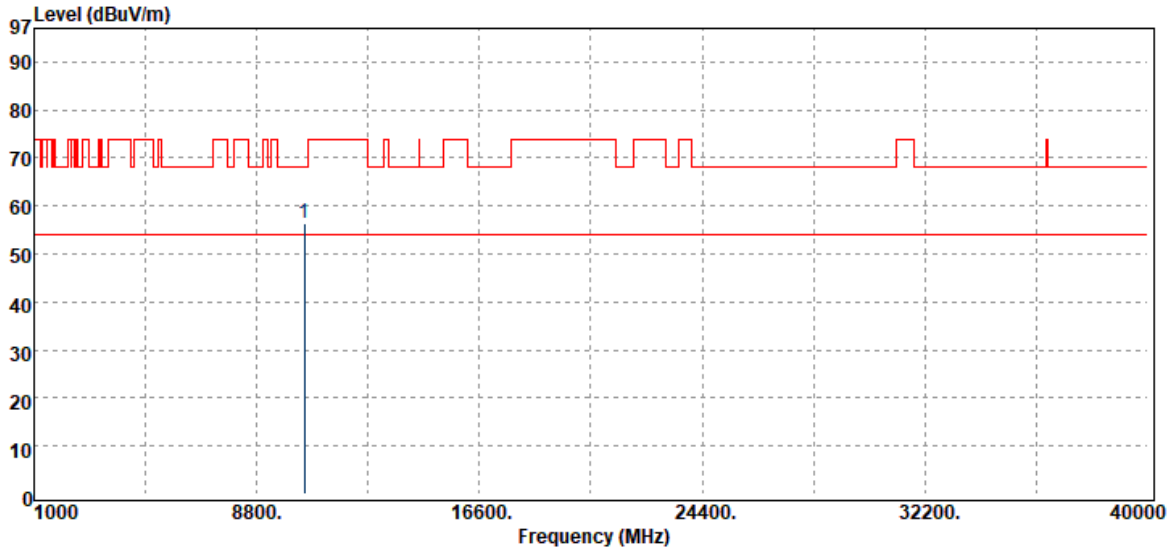
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-17
Test Frequency	:5230 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	35.13	21.20	56.33	68.20	-11.87

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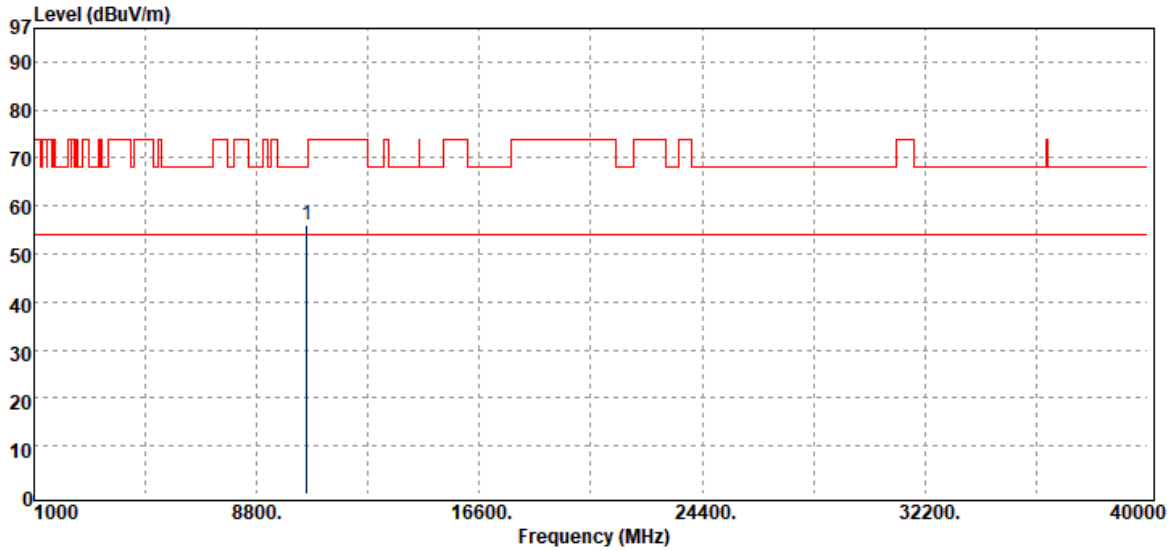
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-17
Test Frequency	:5270 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10540.00	Peak	34.85	21.31	56.16	68.20	-12.04

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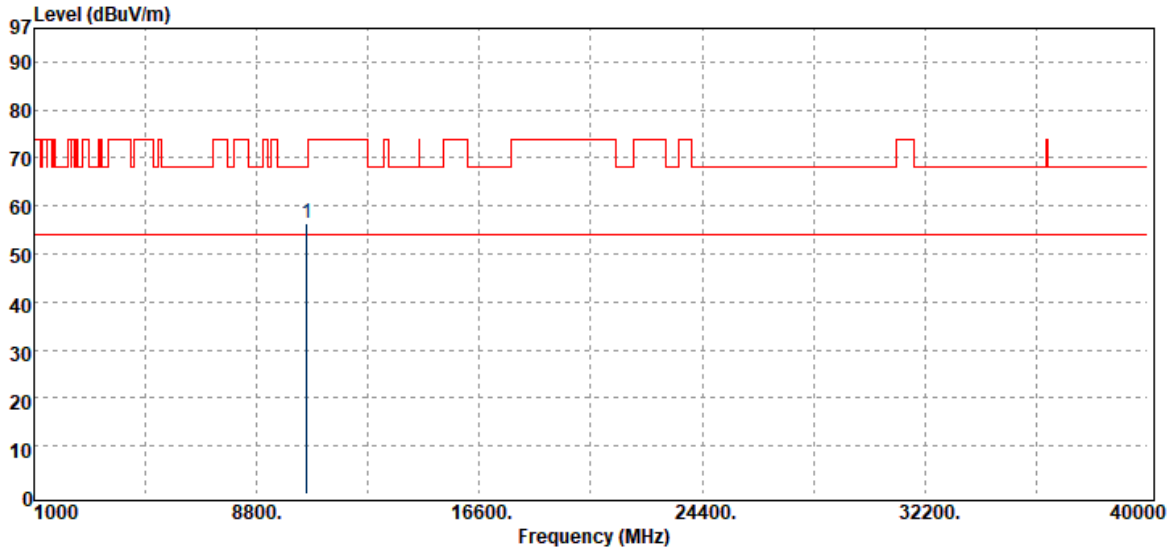
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-17
Test Frequency	:5270 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	Peak	35.17	21.31	56.48	68.20	-11.72

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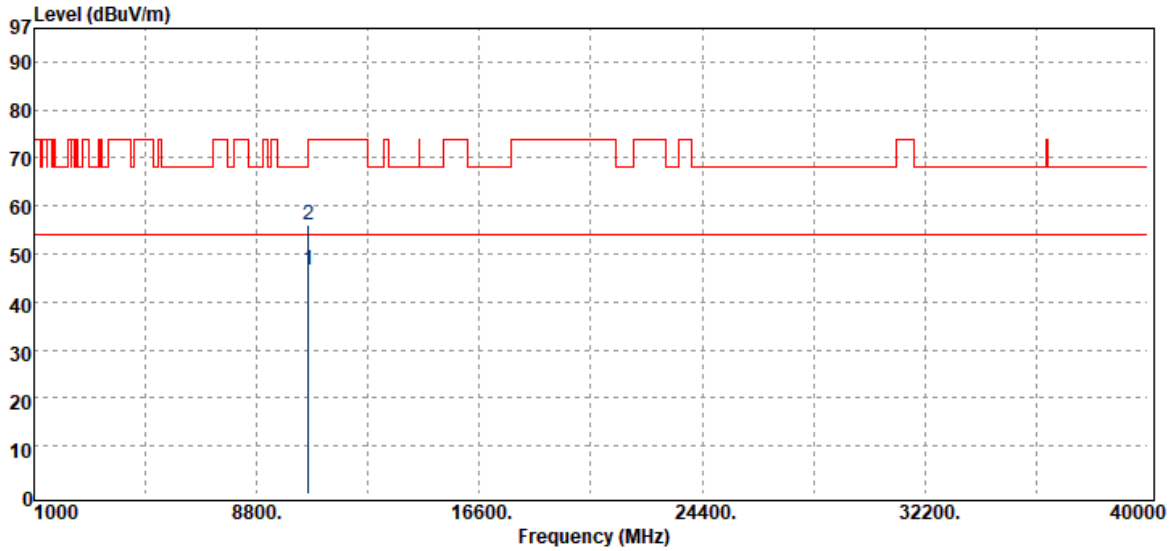
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-17
Test Frequency	:5310 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10620.00	Average	25.46	21.24	46.70	54.00	-7.30
10620.00	Peak	34.89	21.24	56.13	74.00	-17.87

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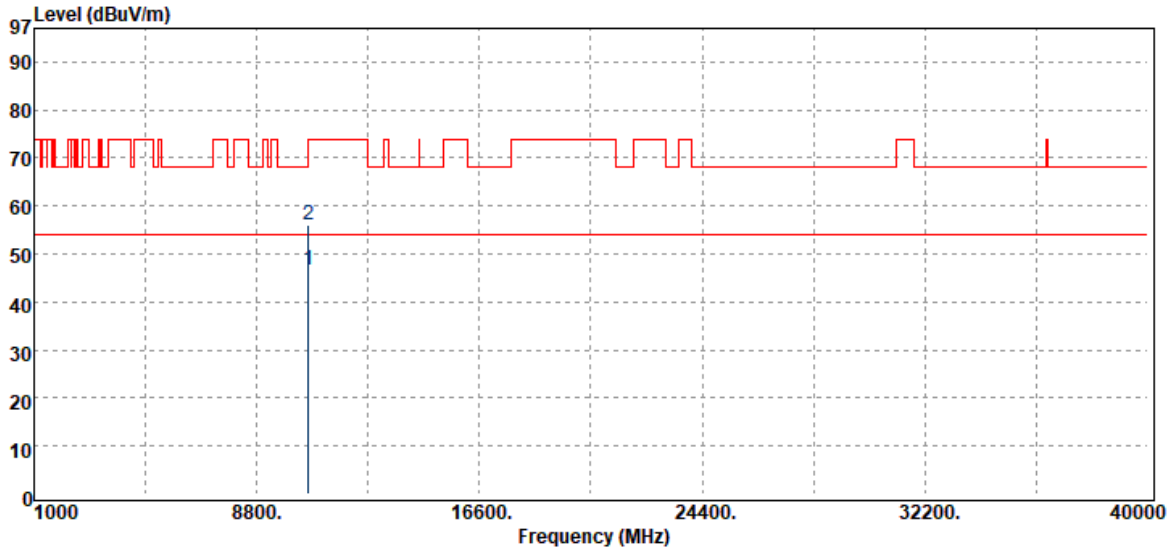
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-17
Test Frequency	:5310 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10620.00	Average	25.48	21.24	46.72	54.00	-7.28
10620.00	Peak	34.93	21.24	56.17	74.00	-17.83

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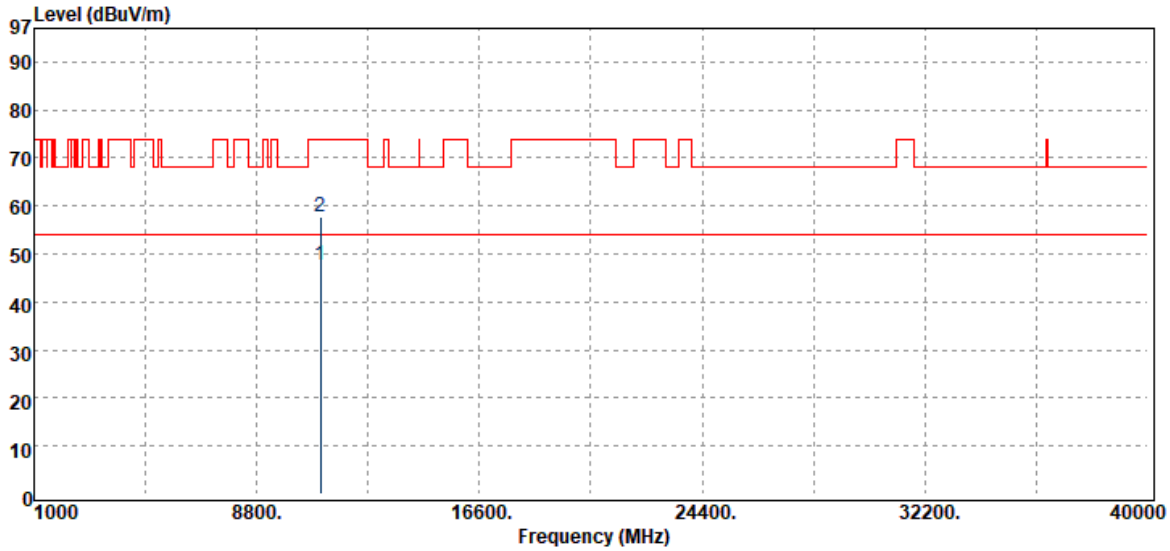
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-17
Test Frequency	:5510 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11020.00	Average	24.96	22.85	47.81	54.00	-6.19
11020.00	Peak	34.92	22.85	57.77	74.00	-16.23

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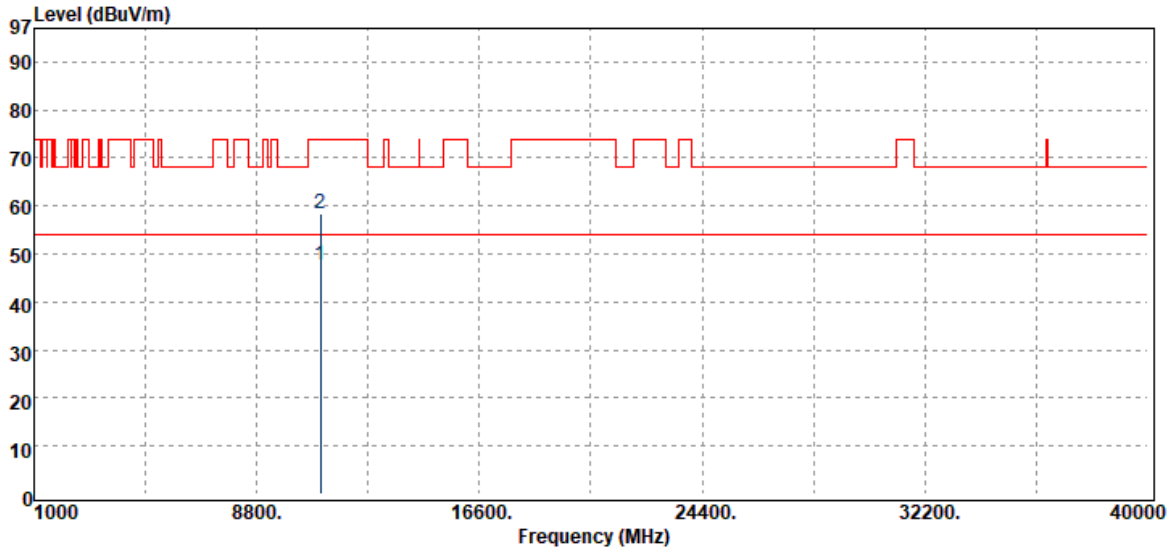
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-17
Test Frequency	:5510 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11020.00	Average	24.92	22.85	47.77	54.00	-6.23
11020.00	Peak	35.43	22.85	58.28	74.00	-15.72

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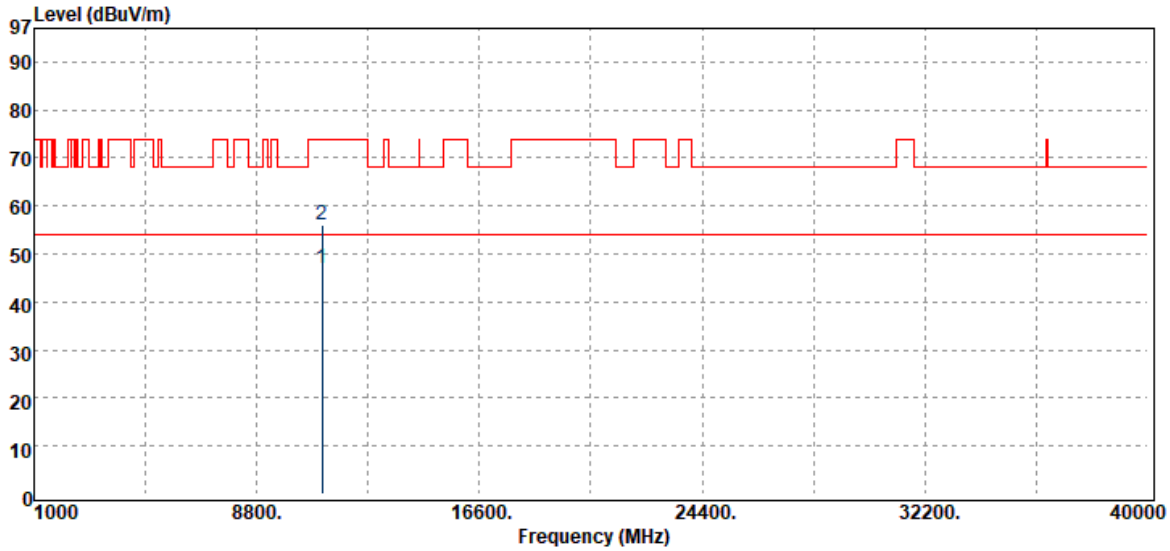
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-17
Test Frequency	:5550 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11100.00	Average	25.14	21.82	46.96	54.00	-7.04
11100.00	Peak	34.27	21.82	56.09	74.00	-17.91

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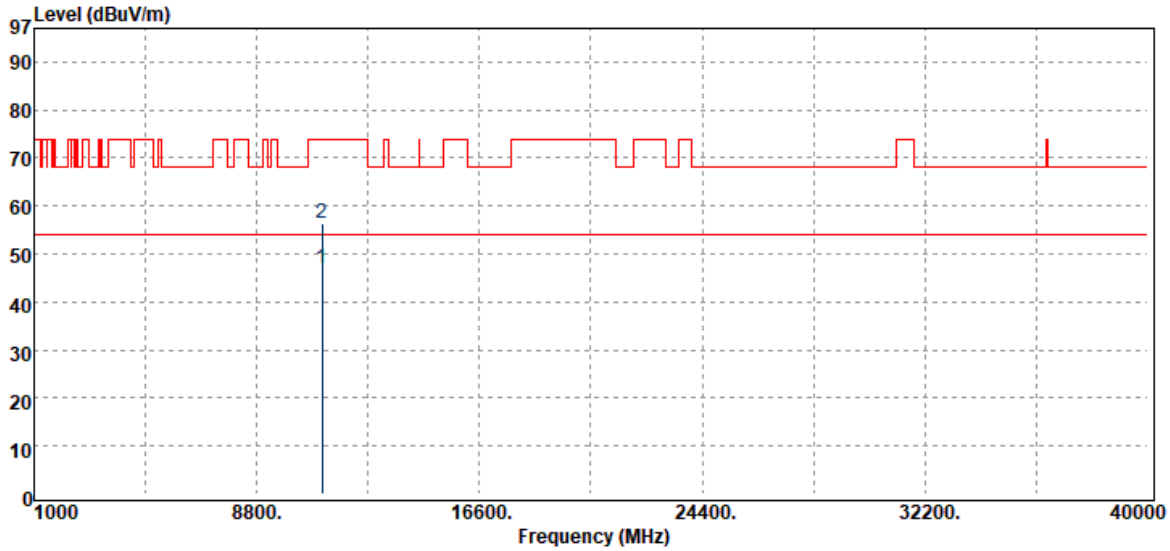
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-17
Test Frequency	:5550 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11100.00	Average	25.10	21.82	46.92	54.00	-7.08
11100.00	Peak	34.65	21.82	56.47	74.00	-17.53

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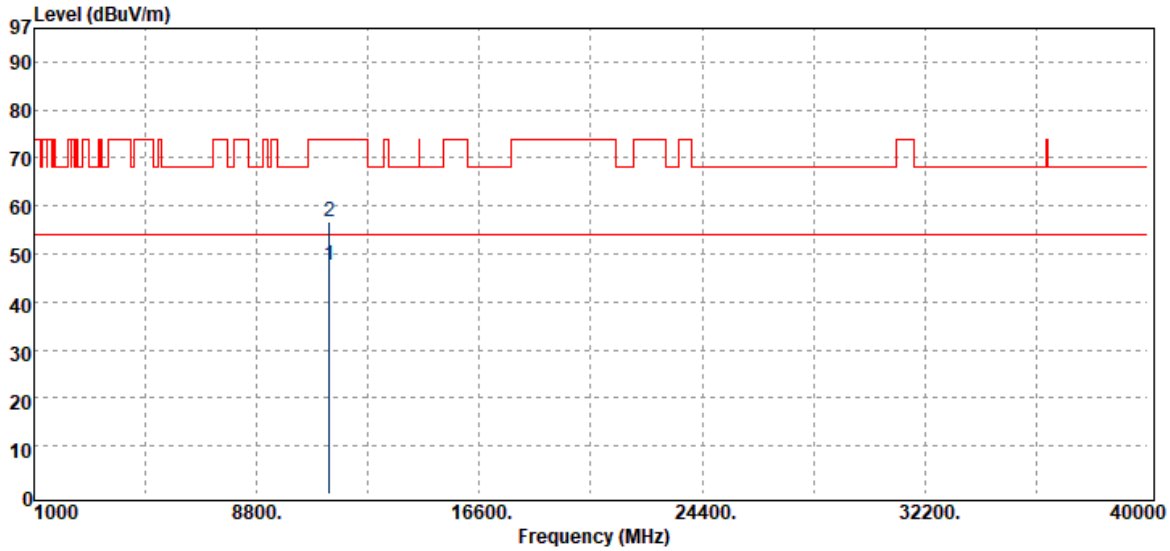
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-17
Test Frequency	:5670 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11340.00	Average	25.27	22.34	47.61	54.00	-6.39
11340.00	Peak	34.29	22.34	56.63	74.00	-17.37

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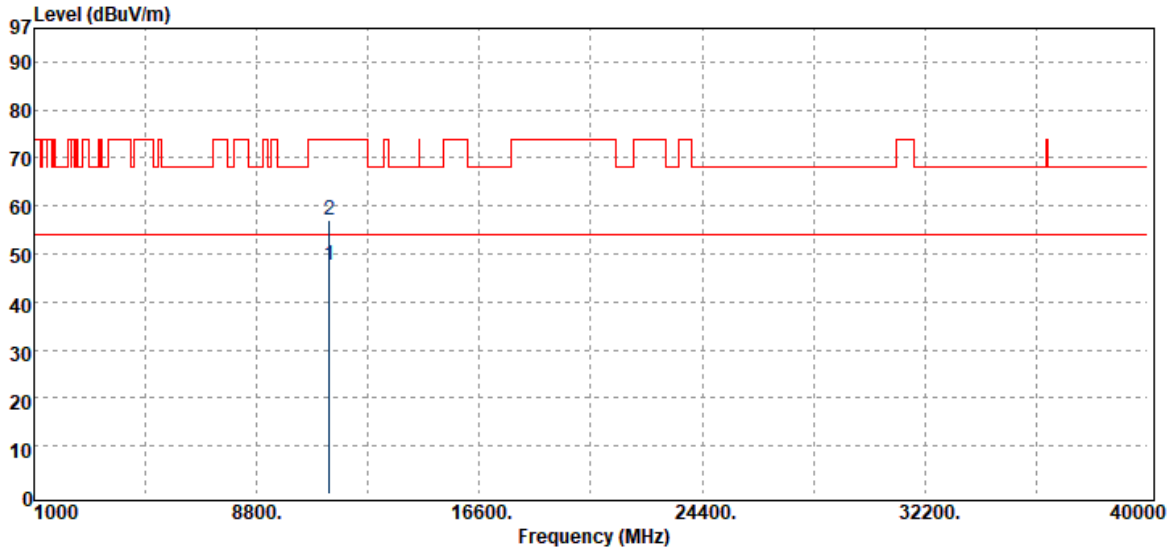
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-17
Test Frequency	:5670 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11340.00	Average	25.24	22.34	47.58	54.00	-6.42
11340.00	Peak	34.67	22.34	57.01	74.00	-16.99

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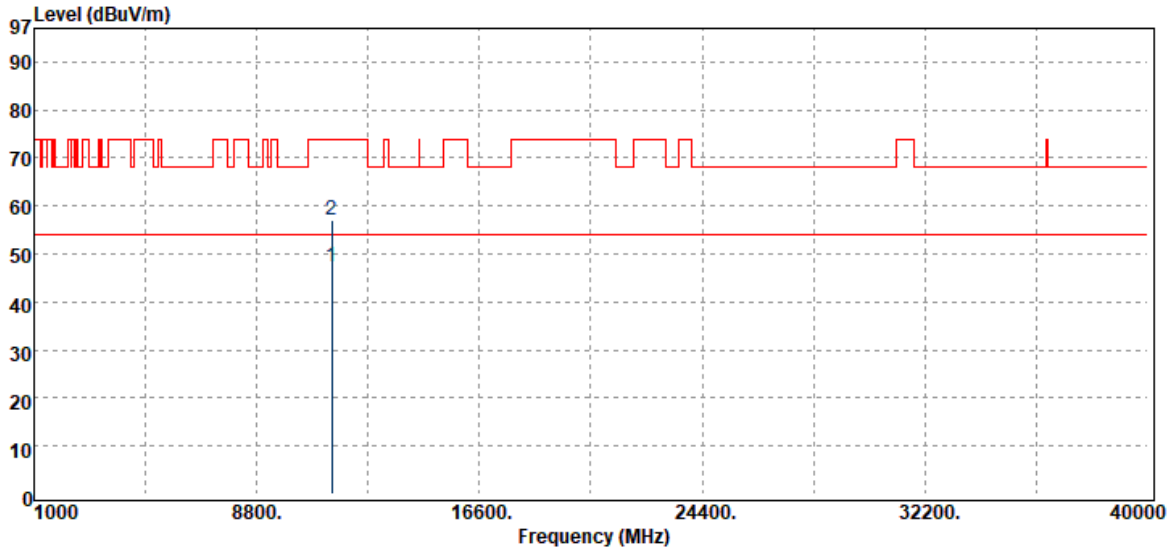
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-17
Test Frequency	:5710 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11420.00	Average	24.88	22.44	47.32	54.00	-6.68
11420.00	Peak	34.77	22.44	57.21	74.00	-16.79

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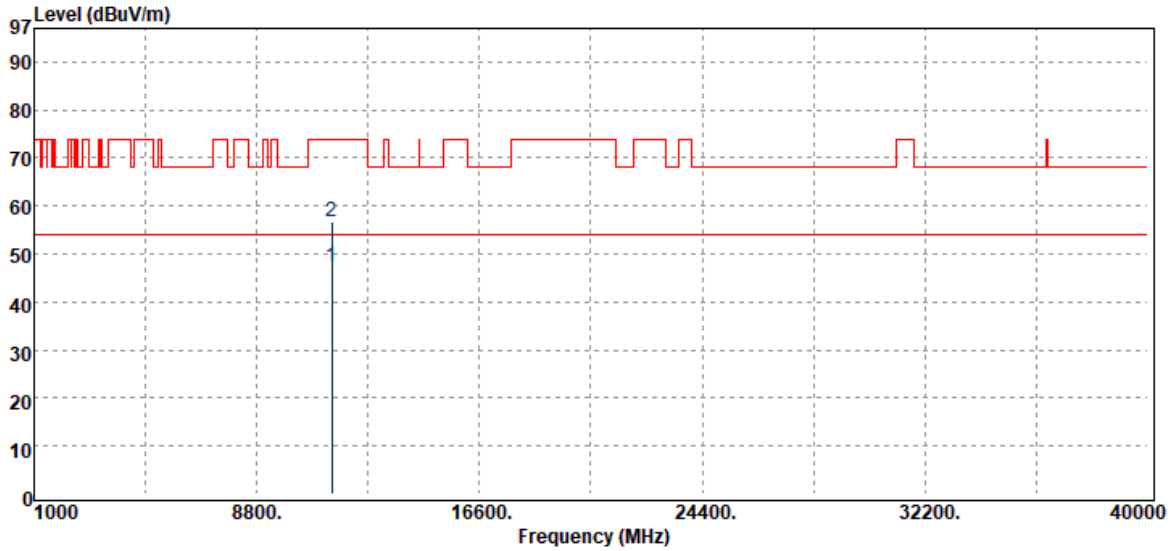
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-17
Test Frequency	:5710 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	Average	24.84	22.44	47.28	54.00	-6.72
11420.00	Peak	34.19	22.44	56.63	74.00	-17.37

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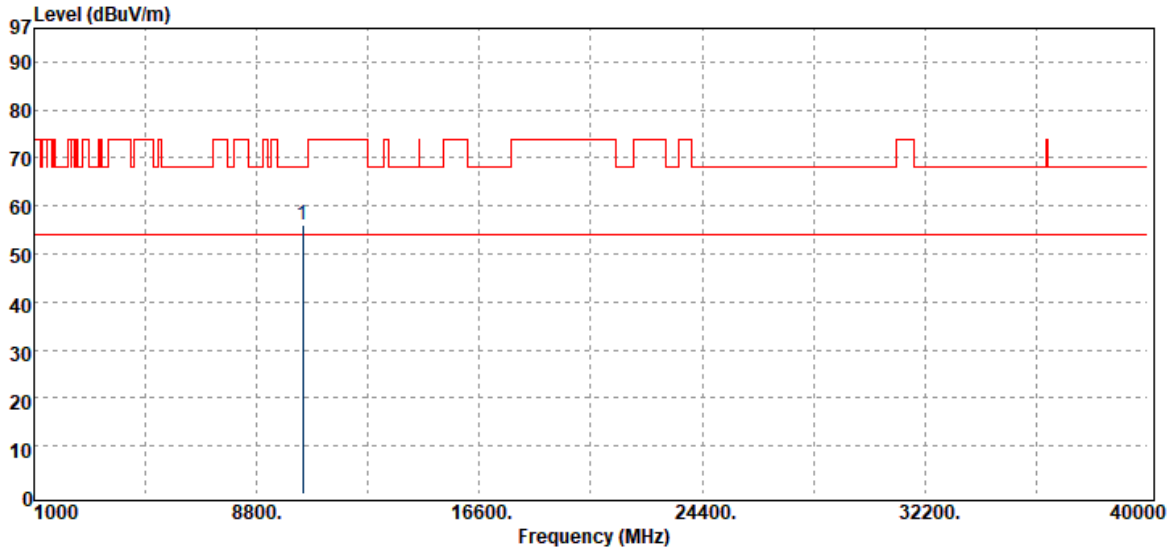
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11ac80	Test Date	:2020-09-17
Test Frequency	:5210 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	Peak	35.20	20.87	56.07	68.20	-12.13

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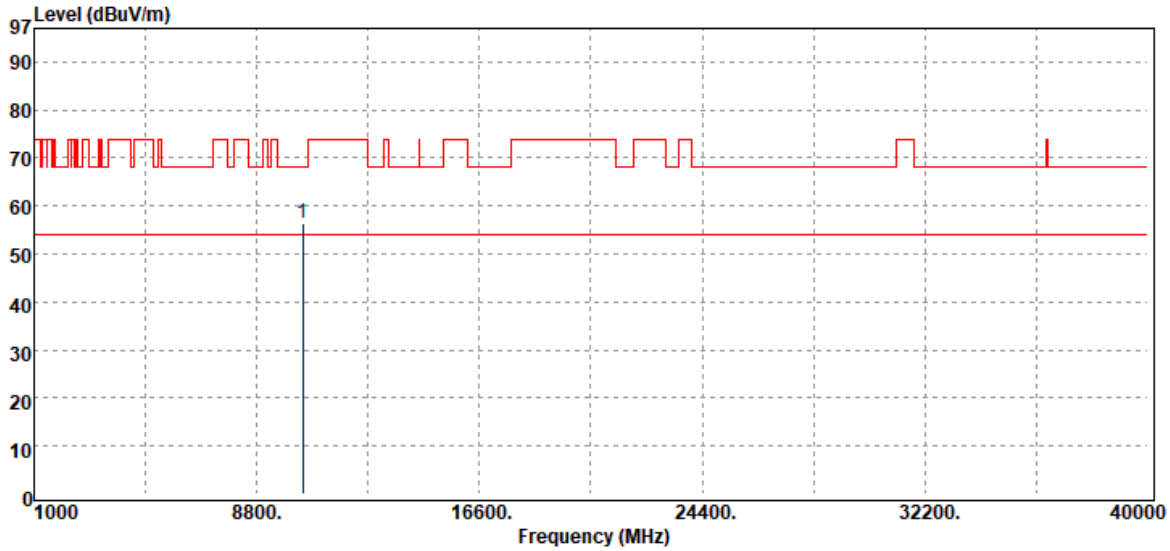
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11ac80	Test Date	:2020-09-17
Test Frequency	:5210 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	Peak	35.47	20.87	56.34	68.20	-11.86

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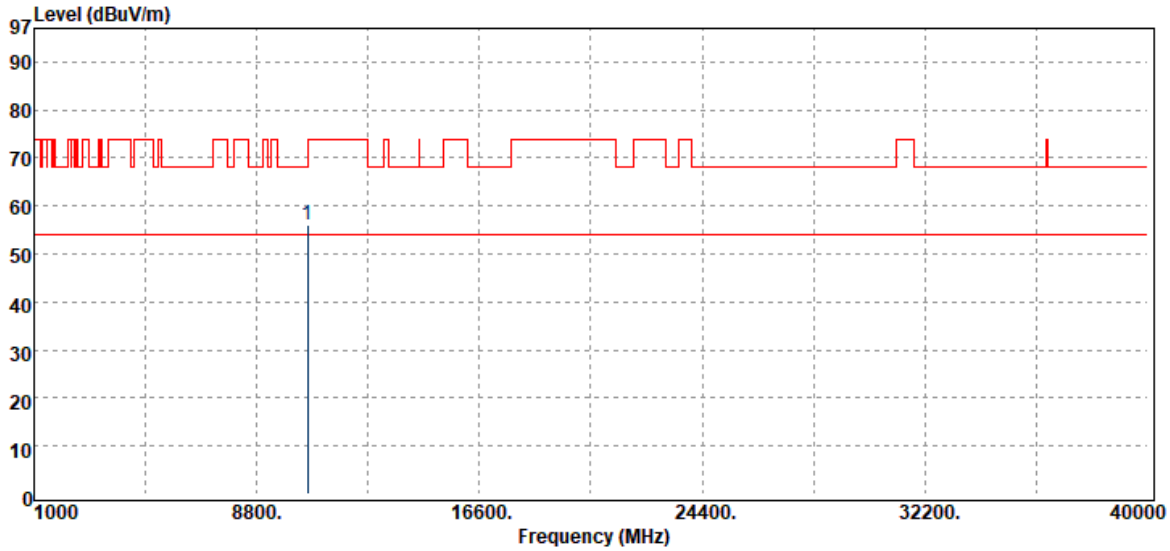
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11ac80	Test Date	:2020-09-17
Test Frequency	:5290 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10580.00	Peak	34.91	21.30	56.21	68.20	-11.99

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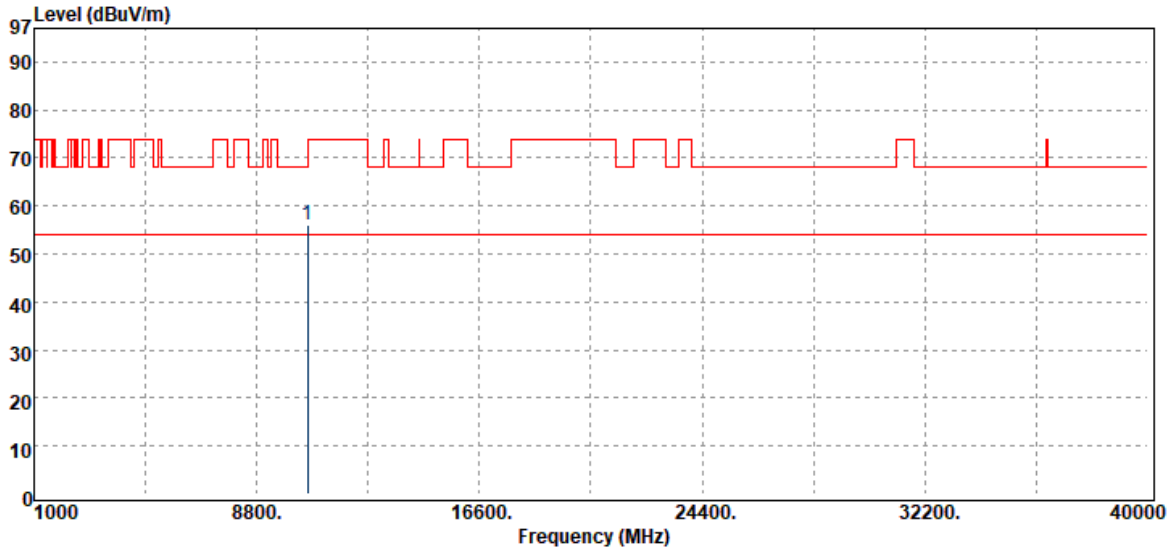
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11ac80	Test Date	:2020-09-17
Test Frequency	:5290 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	Peak	34.69	21.30	55.99	68.20	-12.21

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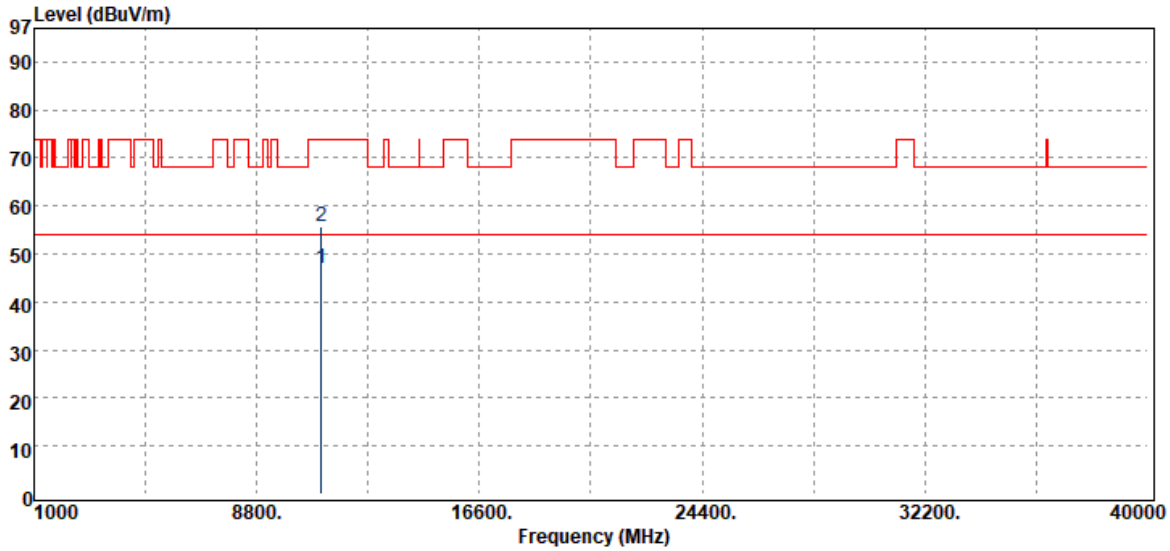
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11ac80	Test Date	:2020-09-17
Test Frequency	:5530 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11060.00	Average	24.97	22.01	46.98	54.00	-7.02
11060.00	Peak	33.86	22.01	55.87	74.00	-18.13

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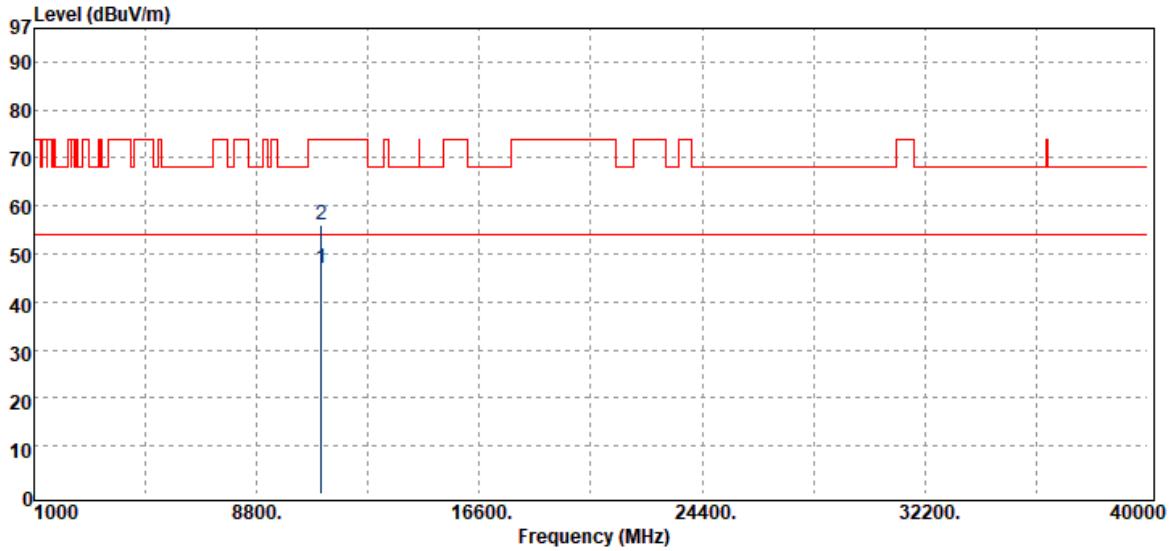
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11ac80	Test Date	:2020-09-17
Test Frequency	:5530 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11060.00	Average	24.92	22.01	46.93	54.00	-7.07
11060.00	Peak	33.95	22.01	55.96	74.00	-18.04

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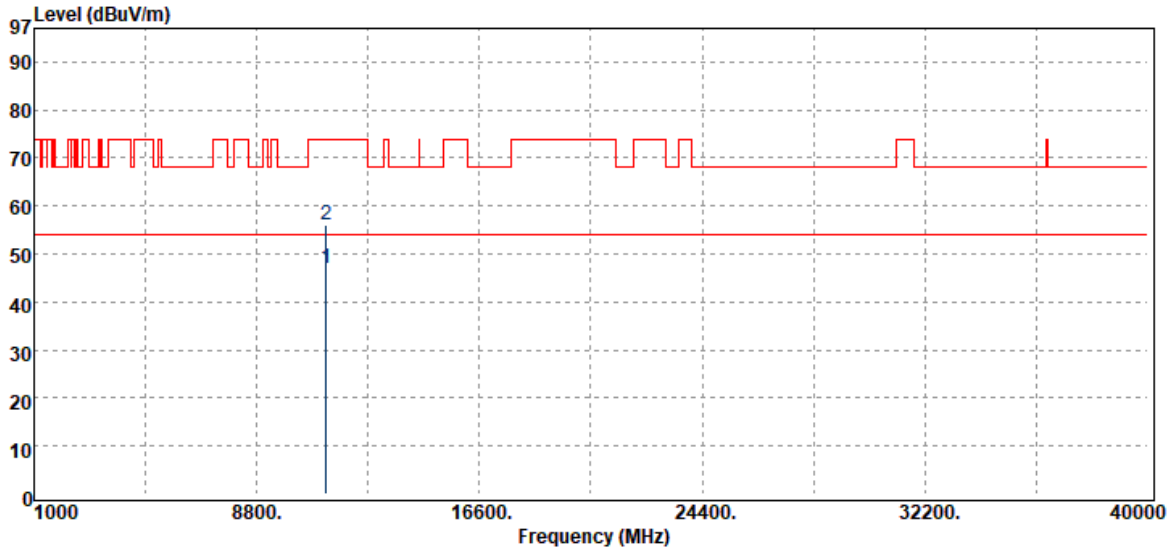
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11ac80	Test Date	:2020-09-17
Test Frequency	:5610 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11220.00	Average	24.99	22.09	47.08	54.00	-6.92
11220.00	Peak	34.12	22.09	56.21	74.00	-17.79

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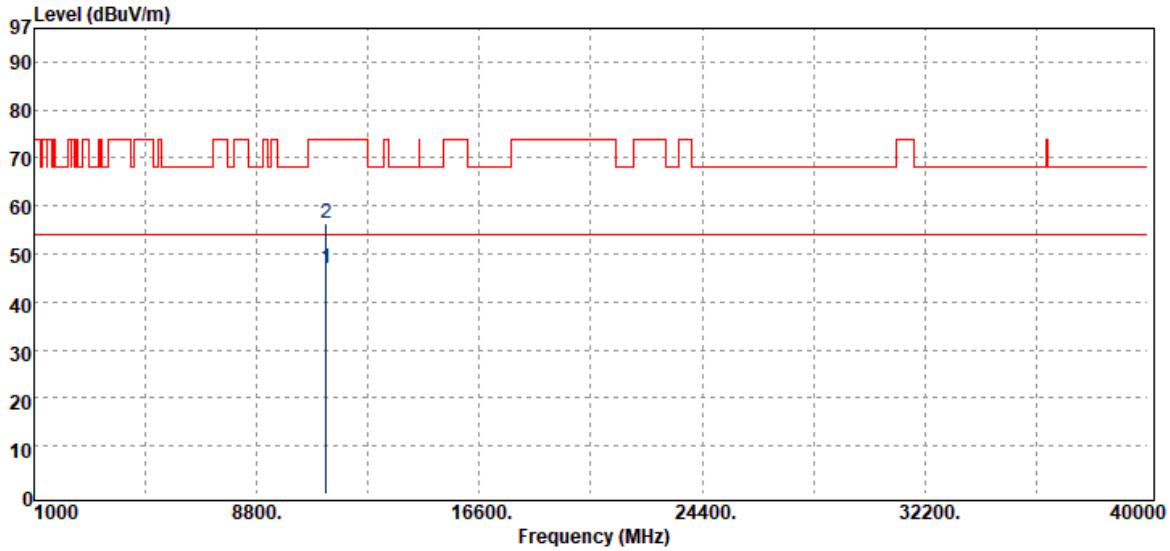
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11ac80	Test Date	:2020-09-17
Test Frequency	:5610 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11220.00	Average	24.98	22.09	47.07	54.00	-6.93
11220.00	Peak	34.41	22.09	56.50	74.00	-17.50

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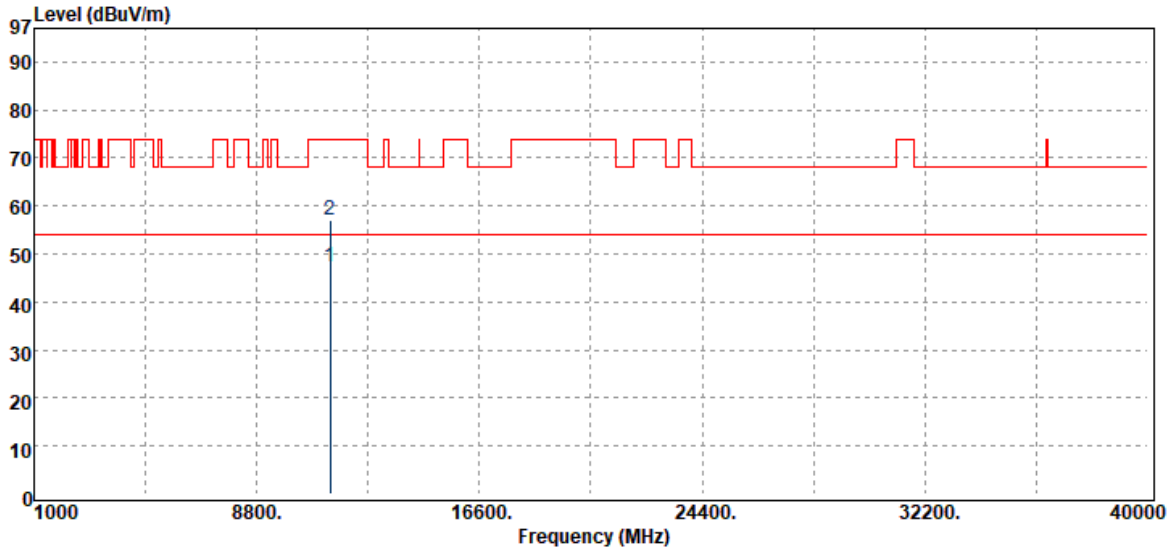
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11ac80	Test Date	:2020-09-17
Test Frequency	:5690 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11380.00	Average	25.09	22.28	47.37	54.00	-6.63
11380.00	Peak	34.74	22.28	57.02	74.00	-16.98

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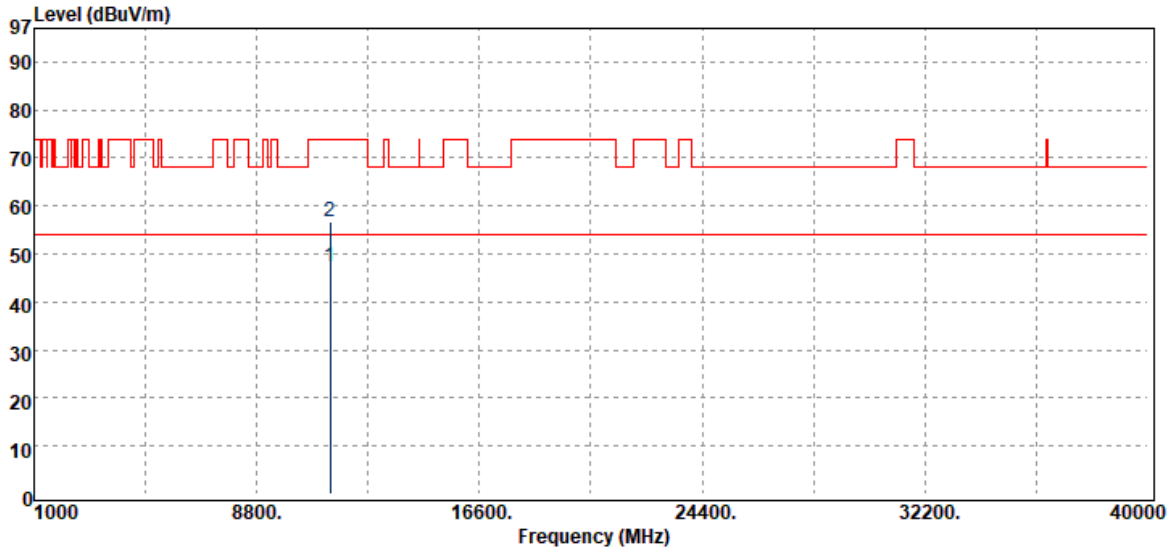
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11ac80	Test Date	:2020-09-17
Test Frequency	:5690 MHz	Temp./Humi.	:25.2/62
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Nick



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11380.00	Average	25.05	22.28	47.33	54.00	-6.67
11380.00	Peak	34.58	22.28	56.86	74.00	-17.14

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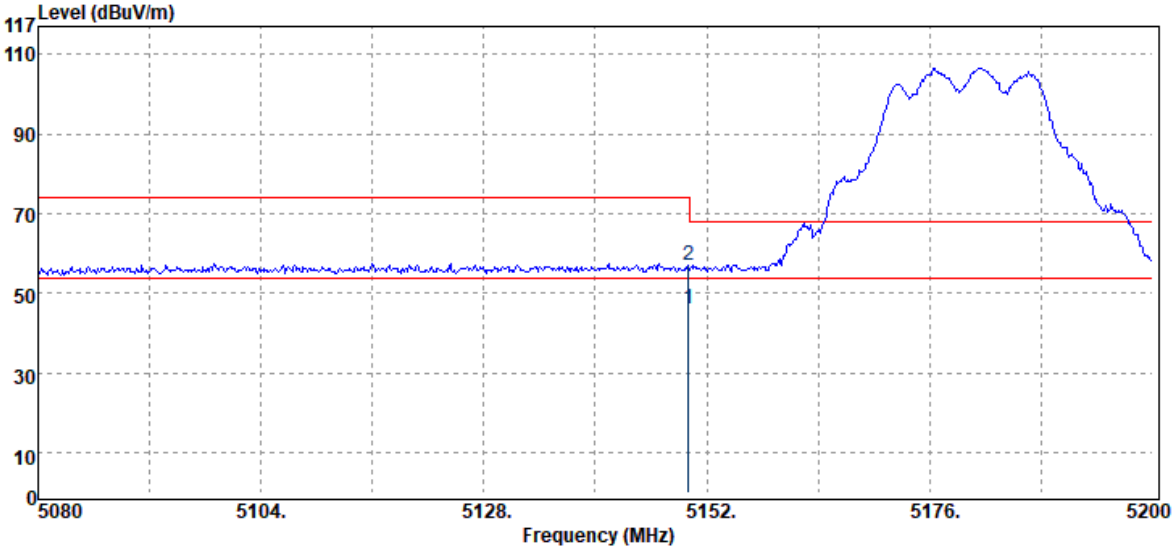
11.7.3 Band edge falling to restricted band

Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5180 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	37.30	8.68	45.98	54.00	-8.02
5150.00	Peak	48.43	8.68	57.11	74.00	-16.89

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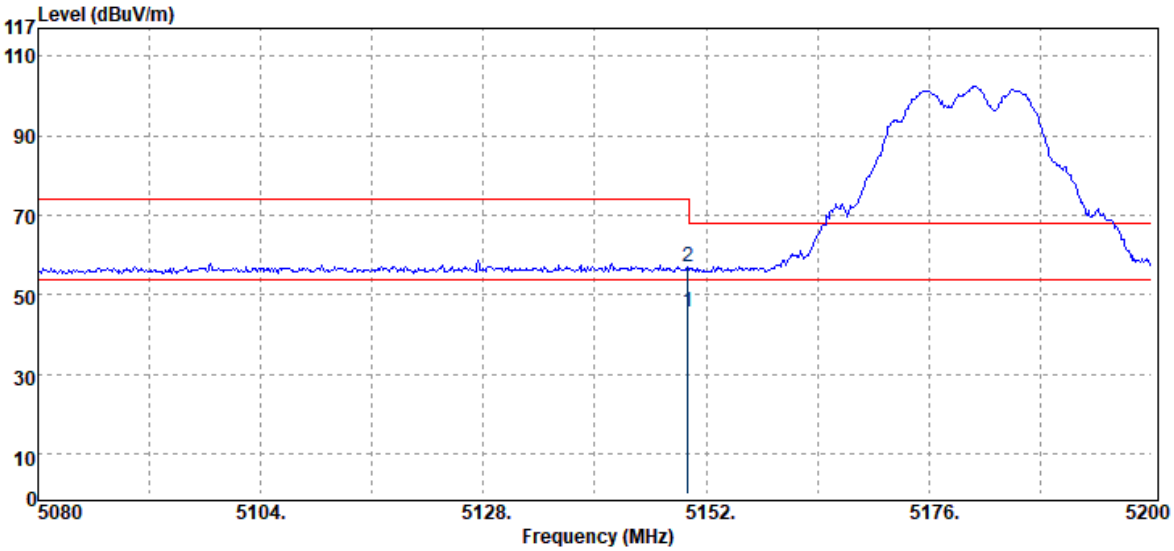
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5180 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	37.11	8.68	45.79	54.00	-8.21
5150.00	Peak	48.35	8.68	57.03	74.00	-16.97

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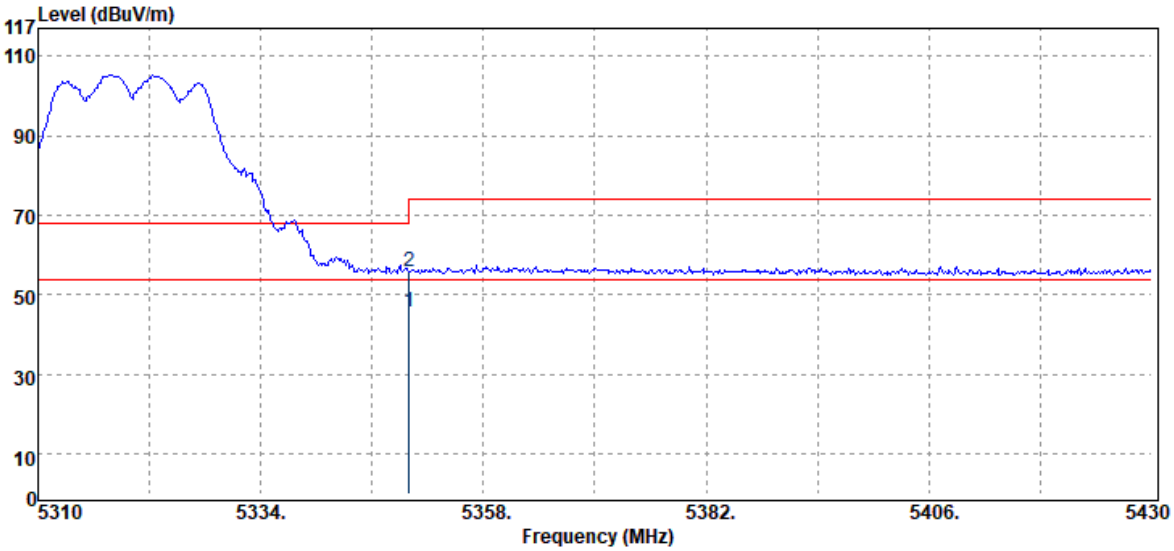
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5320 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	37.46	8.12	45.58	54.00	-8.42
5350.00	Peak	47.57	8.12	55.69	74.00	-18.31

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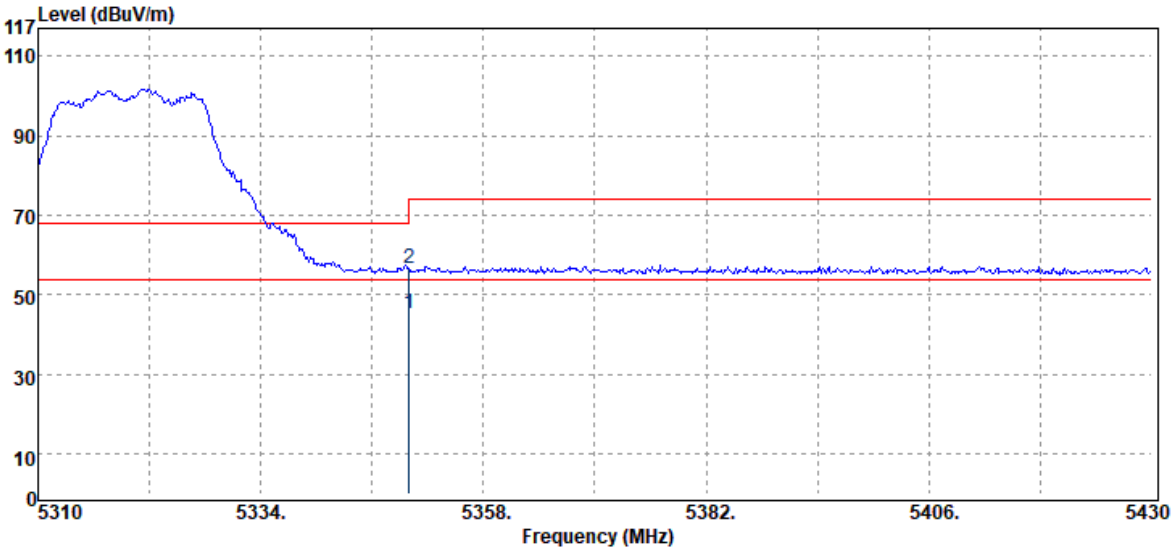
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5320 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	37.11	8.12	45.23	54.00	-8.77
5350.00	Peak	48.43	8.12	56.55	74.00	-17.45

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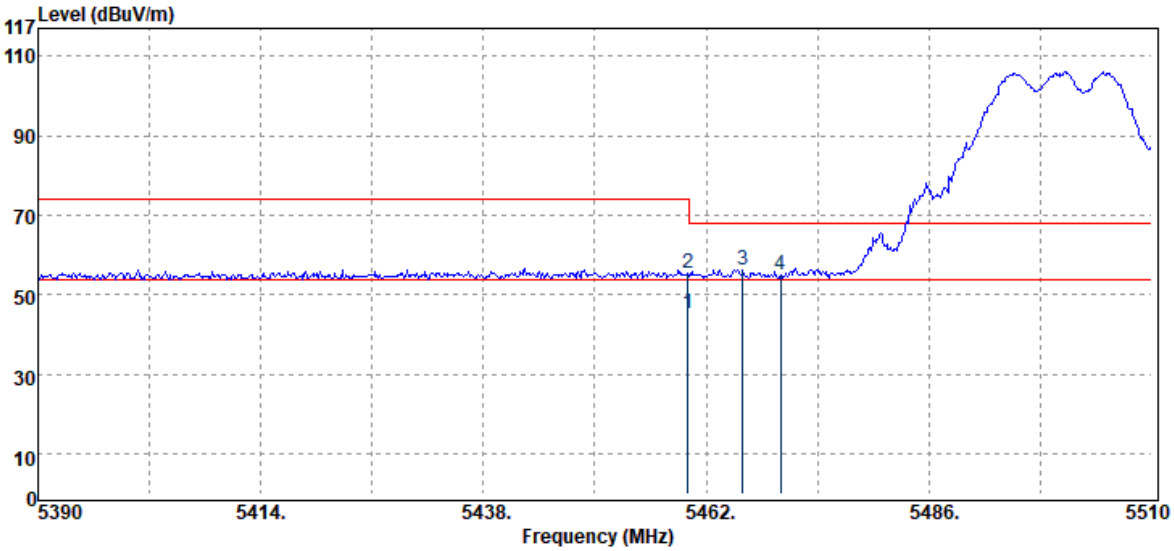
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5500 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	37.28	8.06	45.34	54.00	-8.66
5460.00	Peak	47.40	8.06	55.46	74.00	-18.54
5465.96	Peak	48.38	8.07	56.45	68.20	-11.75
5470.00	Peak	47.17	8.07	55.24	68.20	-12.96

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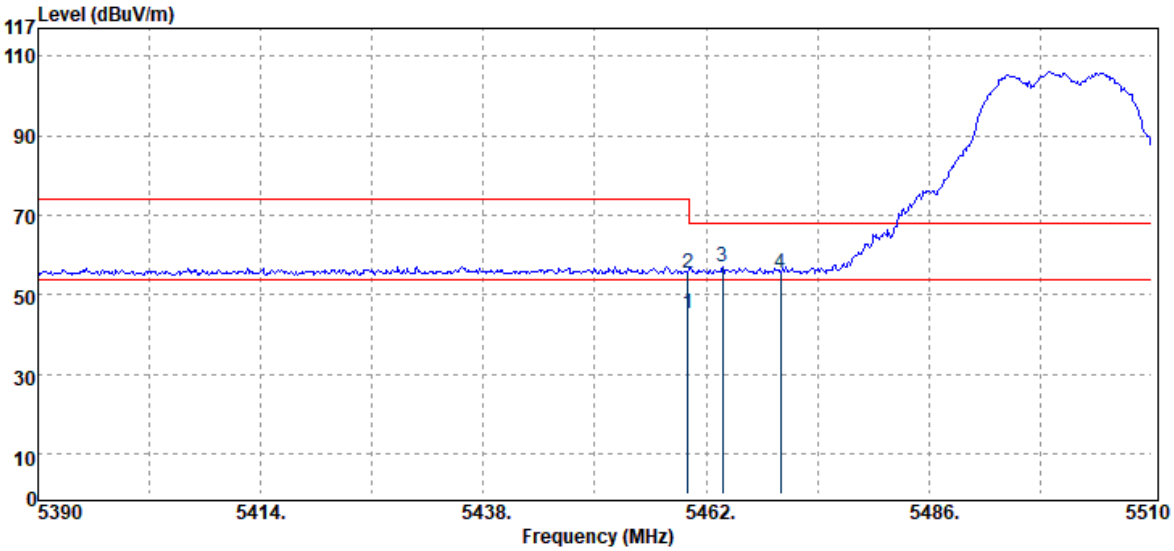
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5500 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.30	8.06	45.36	54.00	-8.64
5460.00	Peak	47.53	8.06	55.59	74.00	-18.41
5463.80	Peak	48.91	8.08	56.99	68.20	-11.21
5470.00	Peak	47.47	8.07	55.54	68.20	-12.66

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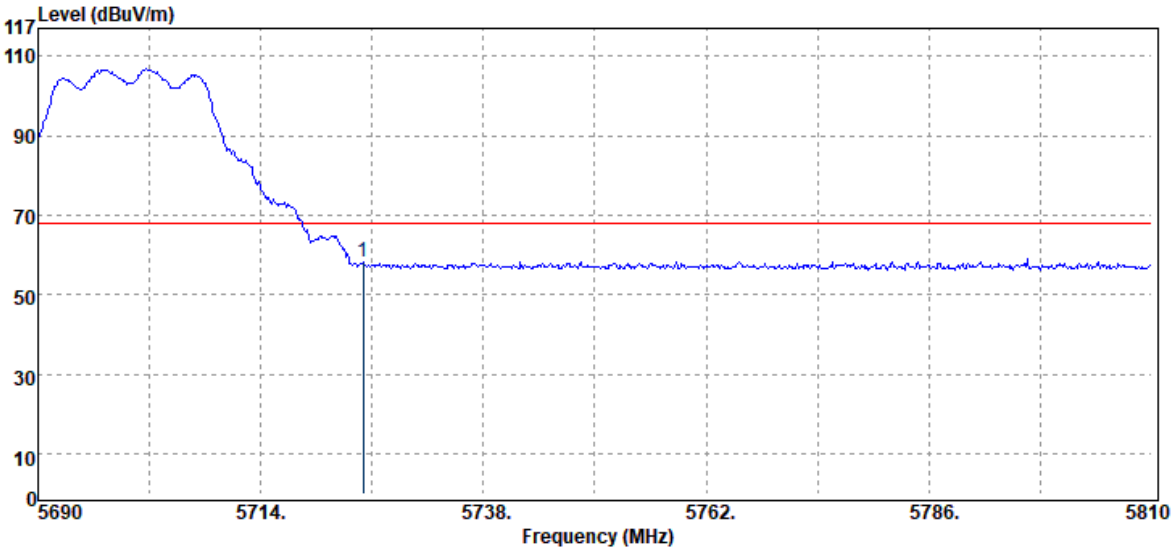
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5700 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	49.30	8.81	58.11	68.20	-10.09

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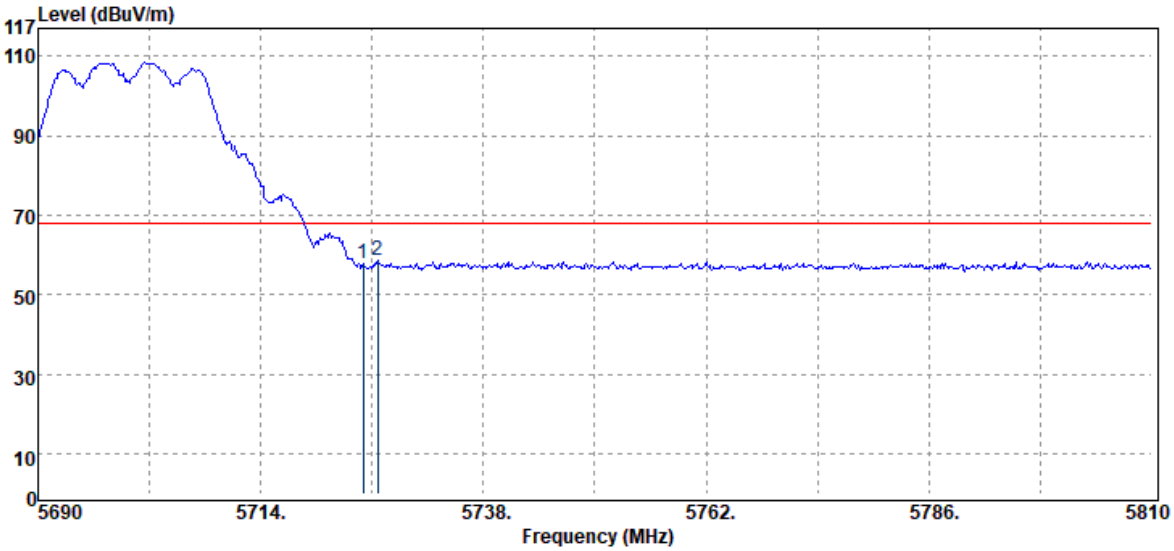
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11a	Test Date	:2020-09-16
Test Frequency	:5700 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	48.90	8.81	57.71	68.20	-10.49
5726.60	Peak	49.72	8.81	58.53	68.20	-9.67

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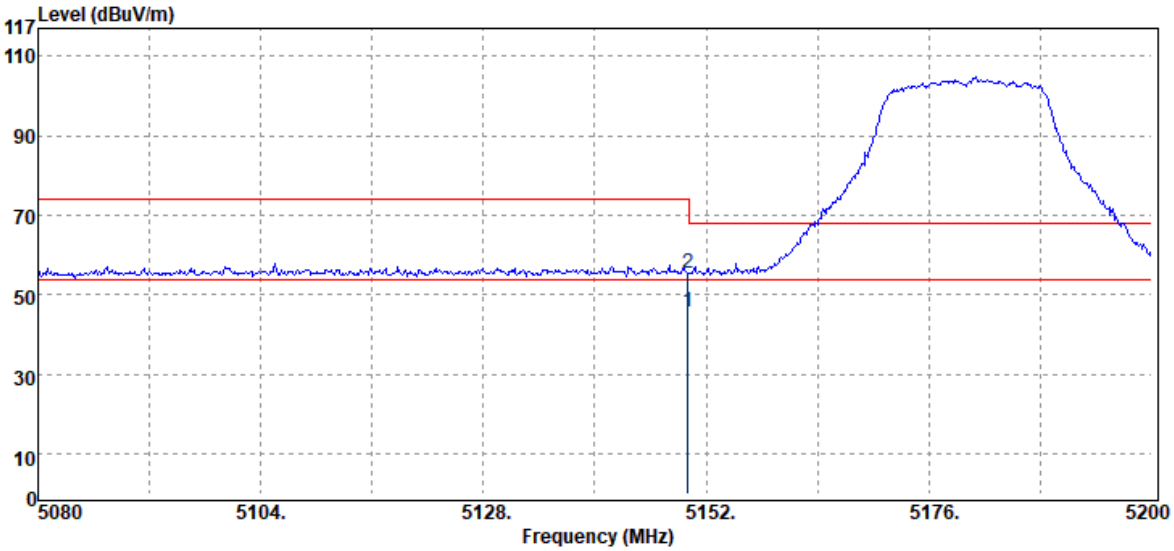
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5180 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	37.21	8.68	45.89	54.00	-8.11
5150.00	Peak	46.61	8.68	55.29	74.00	-18.71

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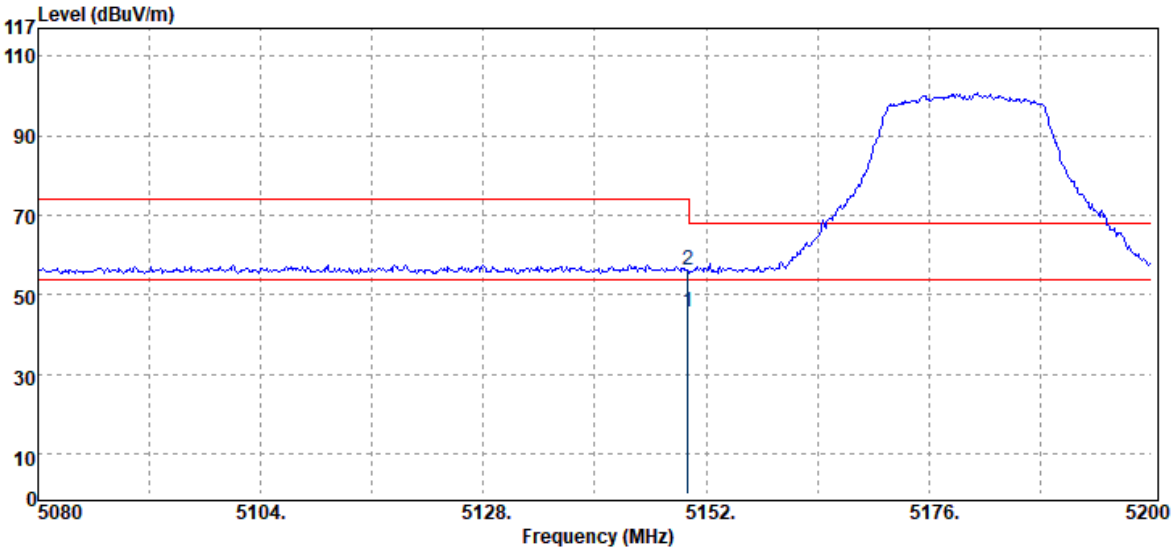
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5180 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	37.12	8.68	45.80	54.00	-8.20
5150.00	Peak	47.64	8.68	56.32	74.00	-17.68

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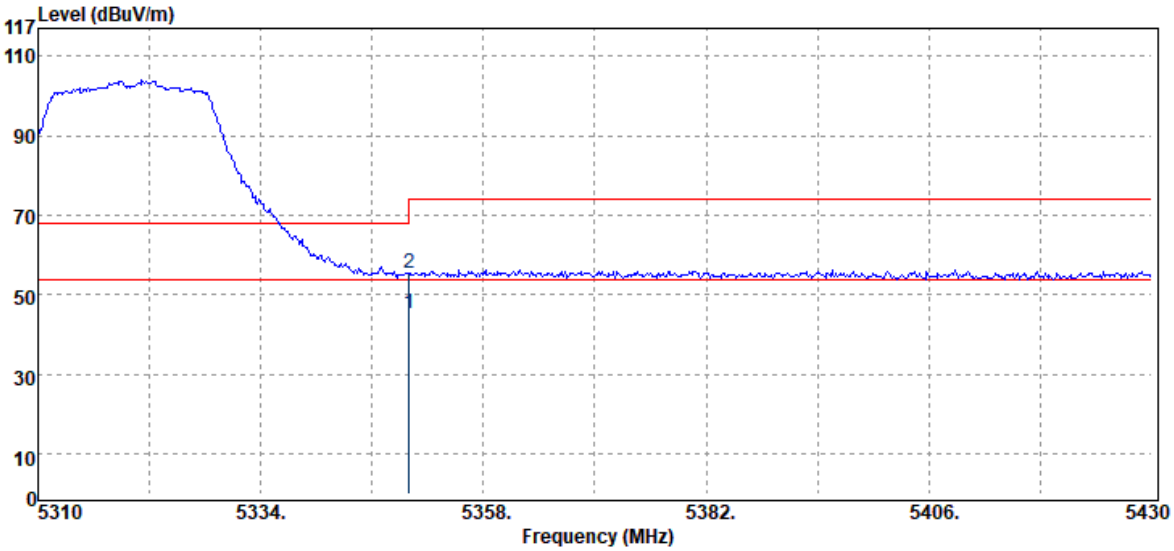
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5320 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	37.42	8.12	45.54	54.00	-8.46
5350.00	Peak	47.43	8.12	55.55	74.00	-18.45

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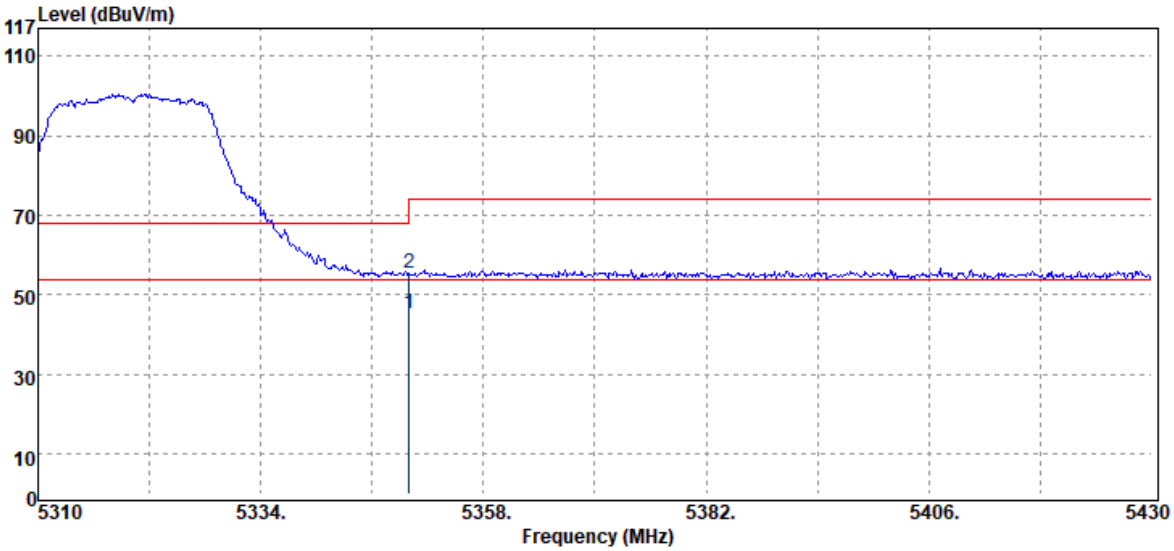
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5320 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	37.24	8.12	45.36	54.00	-8.64
5350.00	Peak	47.20	8.12	55.32	74.00	-18.68

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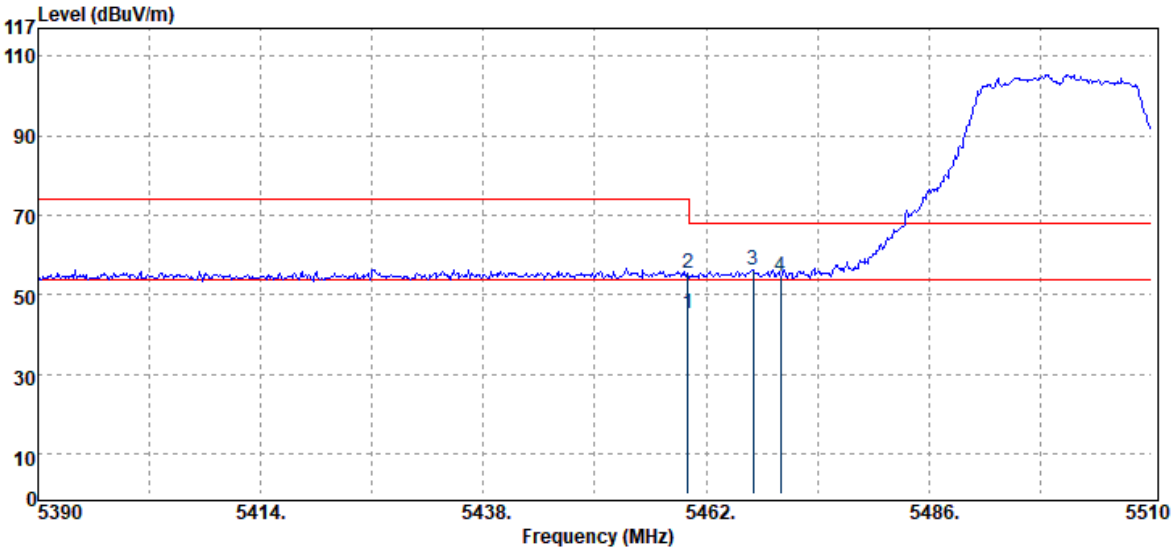
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5500 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	37.25	8.06	45.31	54.00	-8.69
5460.00	Peak	47.29	8.06	55.35	74.00	-18.65
5467.04	Peak	48.13	8.08	56.21	68.20	-11.99
5470.00	Peak	46.63	8.07	54.70	68.20	-13.50

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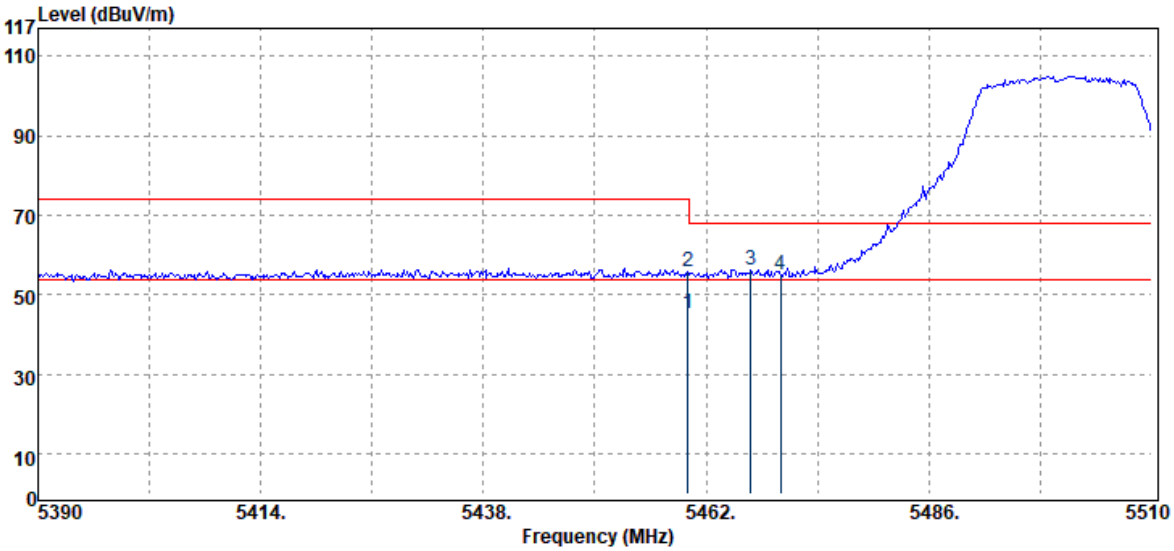
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5500 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	37.25	8.06	45.31	54.00	-8.69
5460.00	Peak	47.82	8.06	55.88	74.00	-18.12
5466.80	Peak	48.36	8.08	56.44	68.20	-11.76
5470.00	Peak	46.95	8.07	55.02	68.20	-13.18

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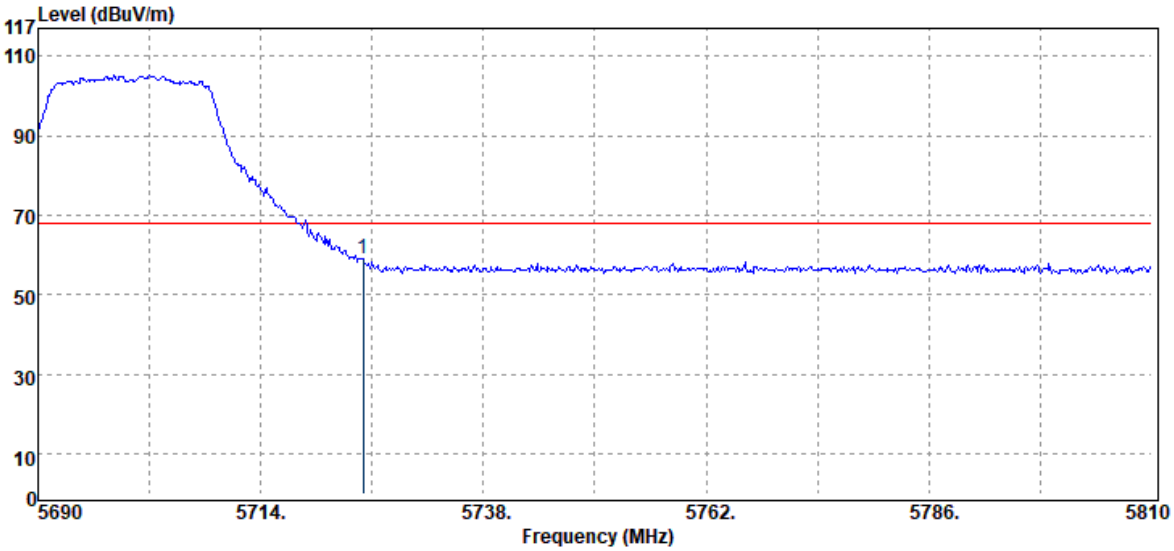
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5700 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	50.23	8.81	59.04	68.20	-9.16

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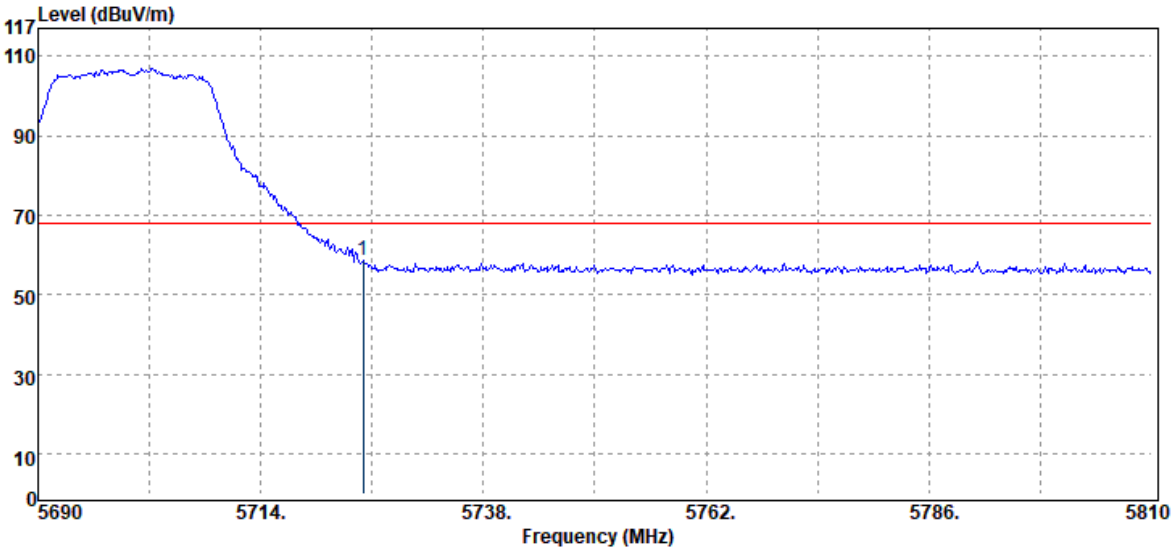
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2020-09-16
Test Frequency	:5700 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	50.00	8.81	58.81	68.20	-9.39

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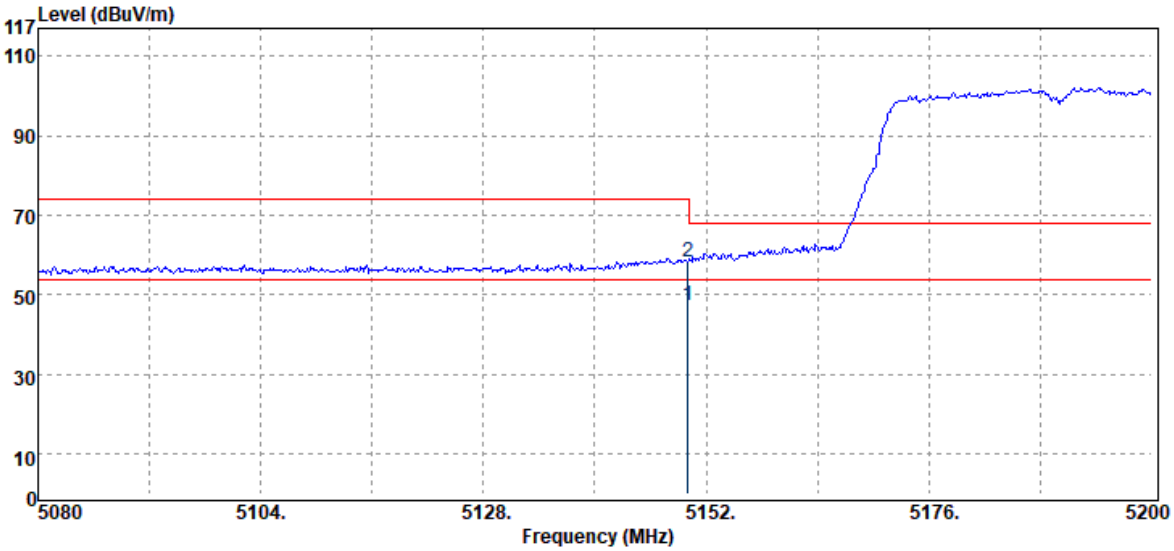
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-16
Test Frequency	:5190 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	38.77	8.68	47.45	54.00	-6.55
5150.00	Peak	49.59	8.68	58.27	74.00	-15.73

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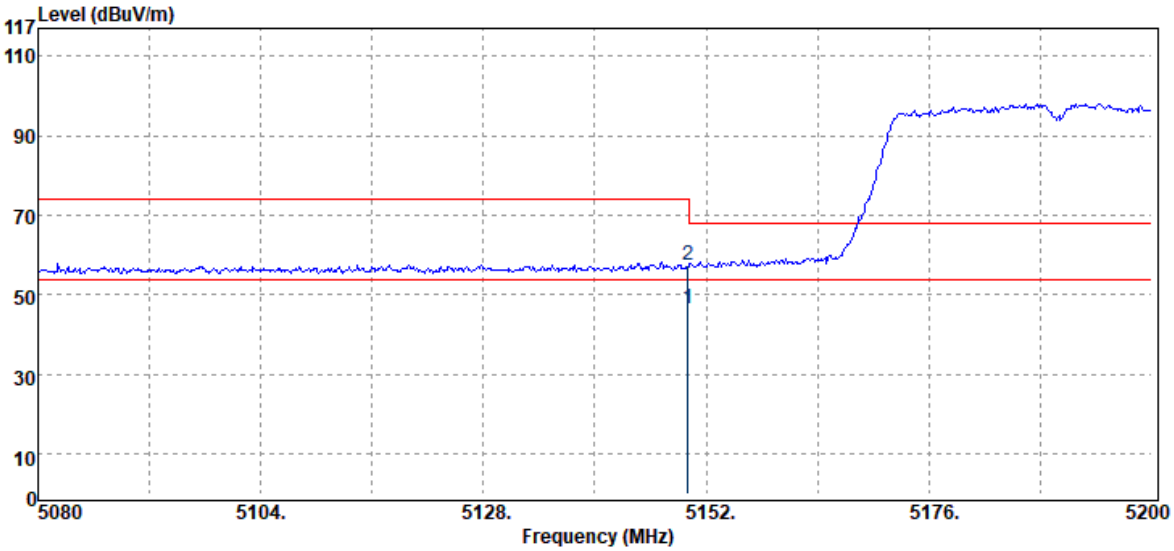
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-16
Test Frequency	:5190 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	37.91	8.68	46.59	54.00	-7.41
5150.00	Peak	48.72	8.68	57.40	74.00	-16.60

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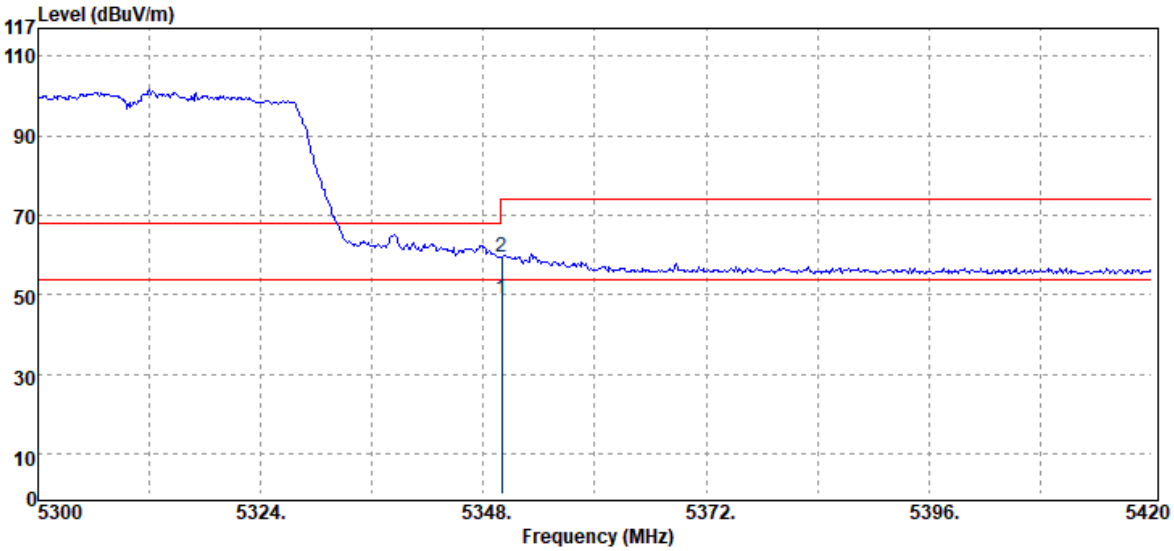
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-16
Test Frequency	:5310 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	40.68	8.12	48.80	54.00	-5.20
5350.00	Peak	51.52	8.12	59.64	74.00	-14.36

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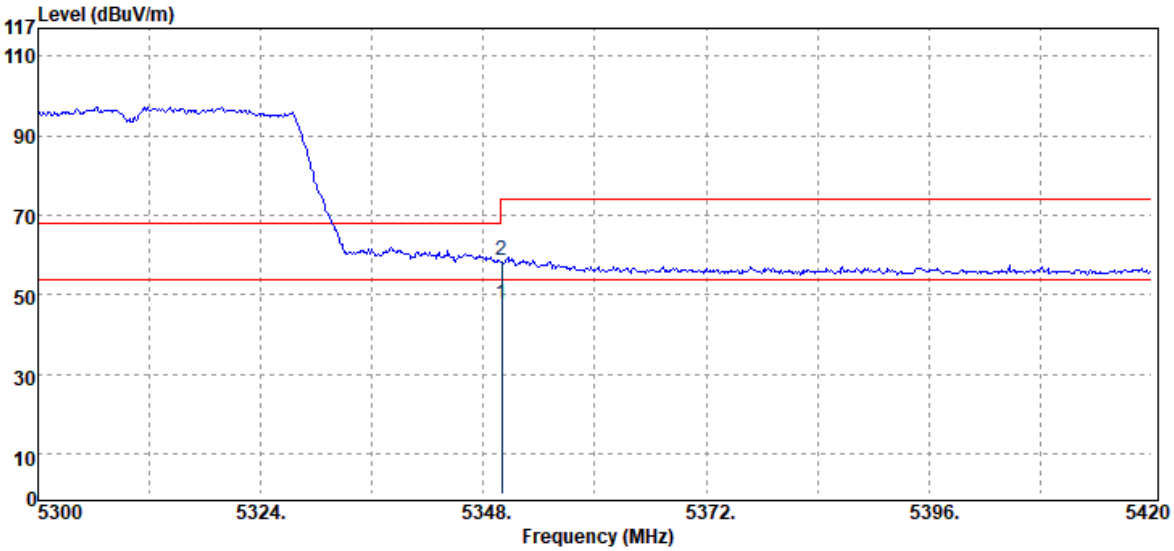
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-16
Test Frequency	:5310 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	39.58	8.12	47.70	54.00	-6.30
5350.00	Peak	50.62	8.12	58.74	74.00	-15.26

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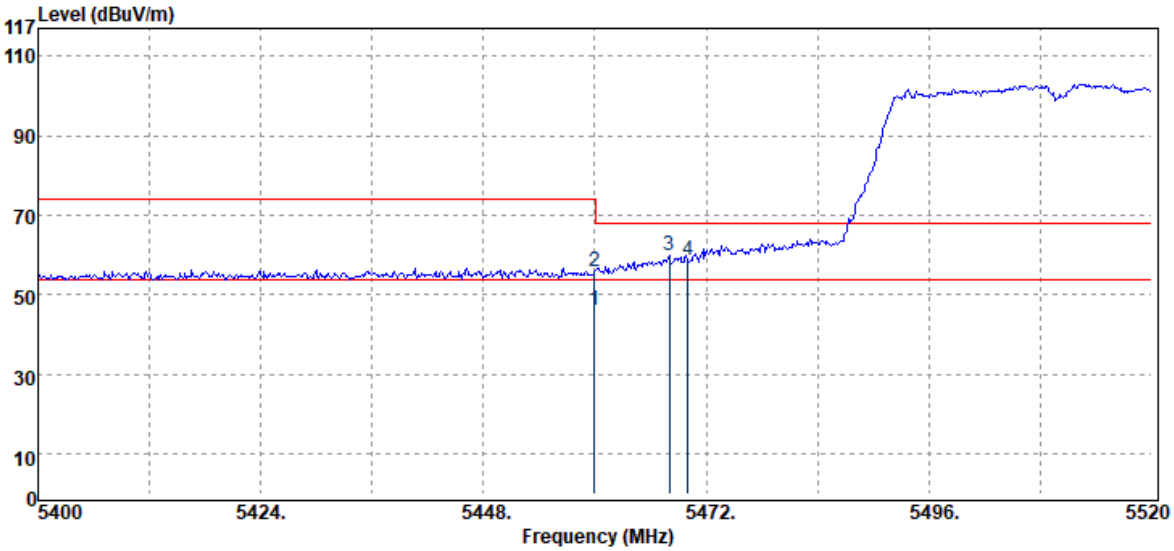
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-16
Test Frequency	:5510 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	37.89	8.06	45.95	54.00	-8.05
5460.00	Peak	47.75	8.06	55.81	74.00	-18.19
5468.04	Peak	51.66	8.08	59.74	68.20	-8.46
5470.00	Peak	50.45	8.07	58.52	68.20	-9.68

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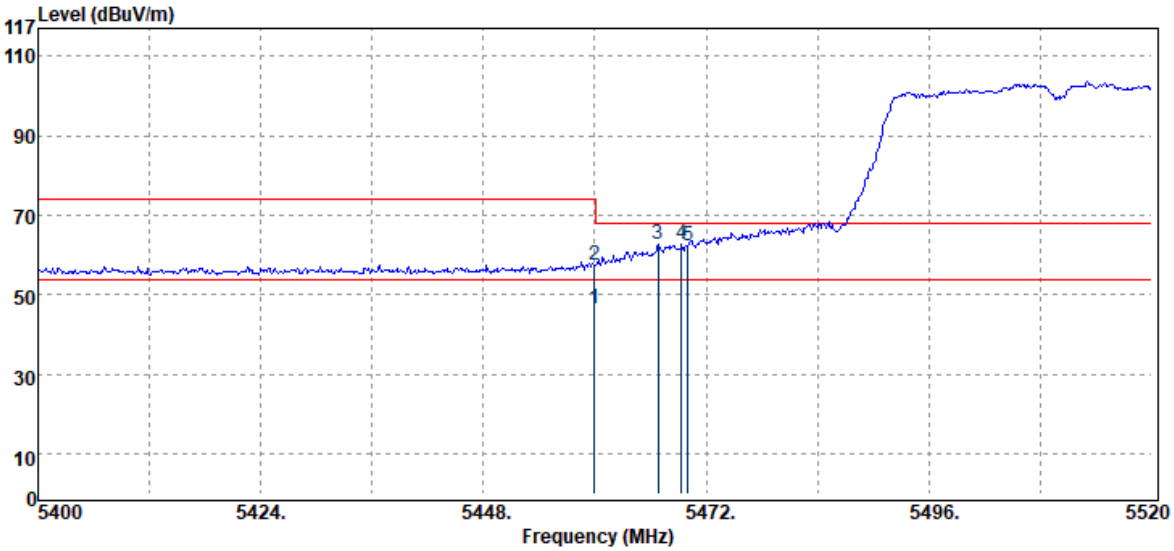
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-16
Test Frequency	:5510 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	38.63	8.06	46.69	54.00	-7.31
5460.00	Peak	49.33	8.06	57.39	74.00	-16.61
5466.84	Peak	54.77	8.08	62.85	68.20	-5.35
5469.36	Peak	54.59	8.08	62.67	68.20	-5.53
5470.00	Peak	54.25	8.07	62.32	68.20	-5.88

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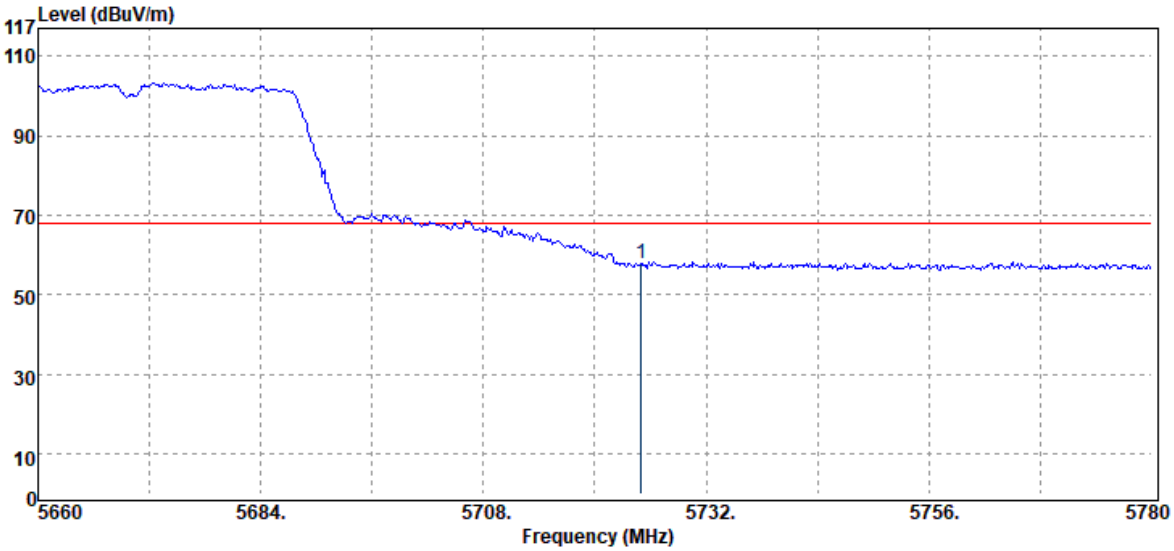
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-16
Test Frequency	:5670 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	49.29	8.81	58.10	68.20	-10.10

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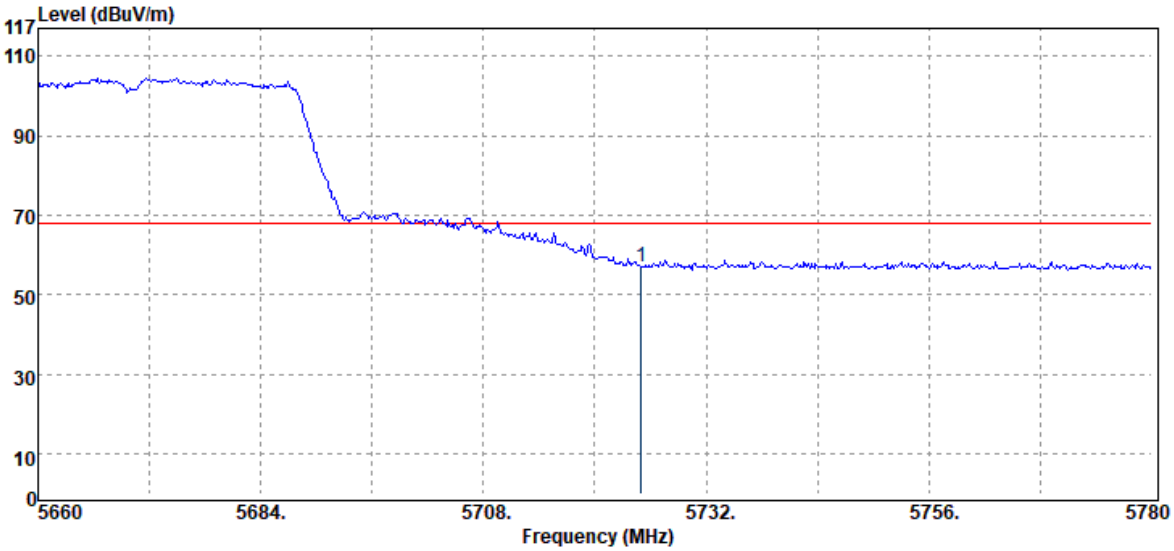
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11n40	Test Date	:2020-09-16
Test Frequency	:5670 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	48.40	8.81	57.21	68.20	-10.99

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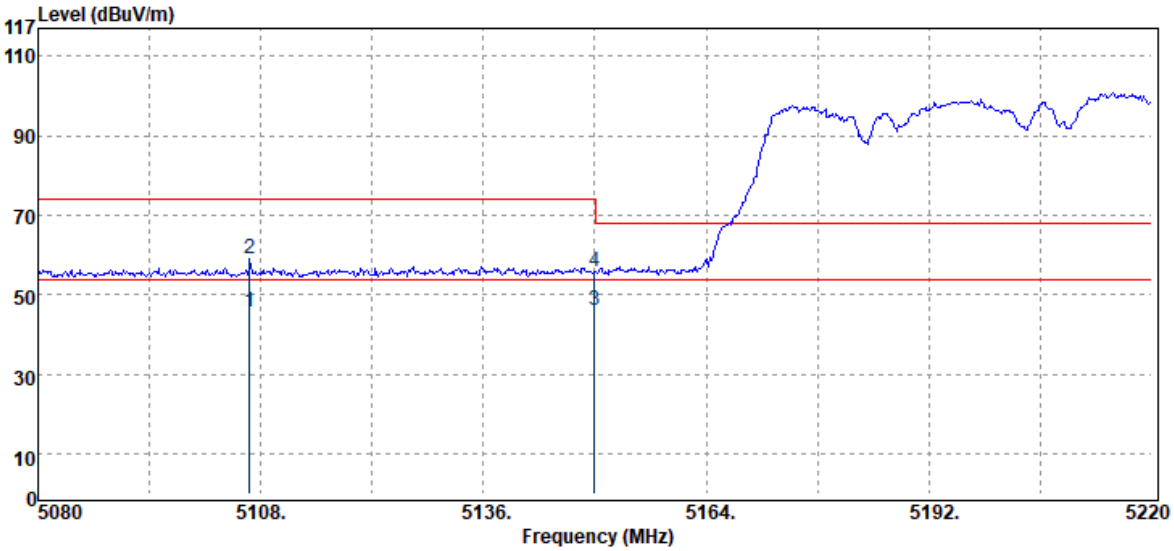
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11ac80	Test Date	:2020-09-16
Test Frequency	:5210 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5106.60	Average	36.84	8.82	45.66	54.00	-8.34
5106.60	Peak	50.12	8.82	58.94	74.00	-15.06
5150.00	Average	37.45	8.68	46.13	54.00	-7.87
5150.00	Peak	47.35	8.68	56.03	74.00	-17.97

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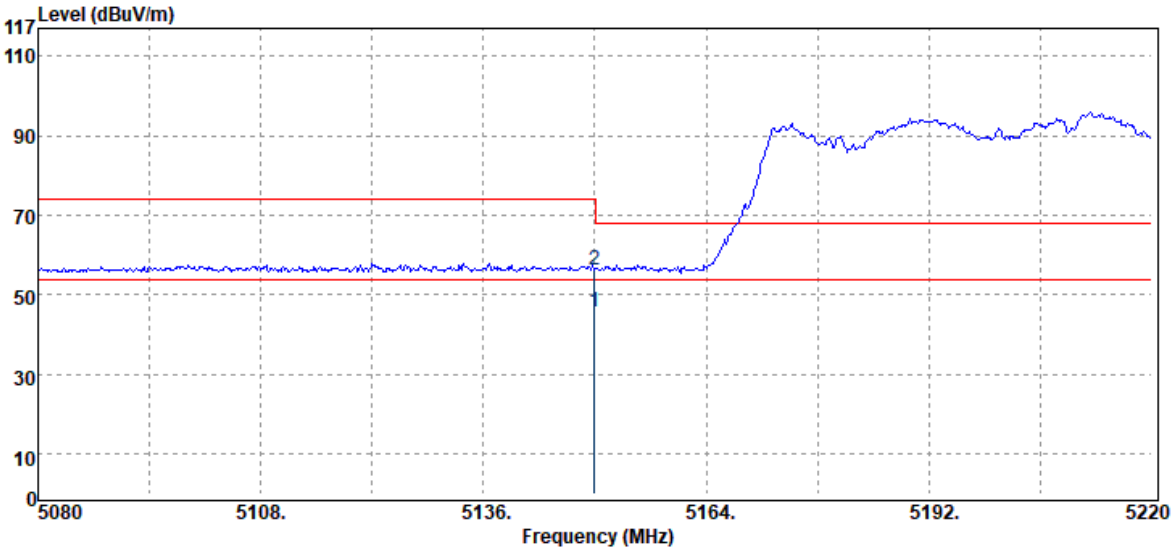
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11ac80	Test Date	:2020-09-16
Test Frequency	:5210 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	37.16	8.68	45.84	54.00	-8.16
5150.00	Peak	47.61	8.68	56.29	74.00	-17.71

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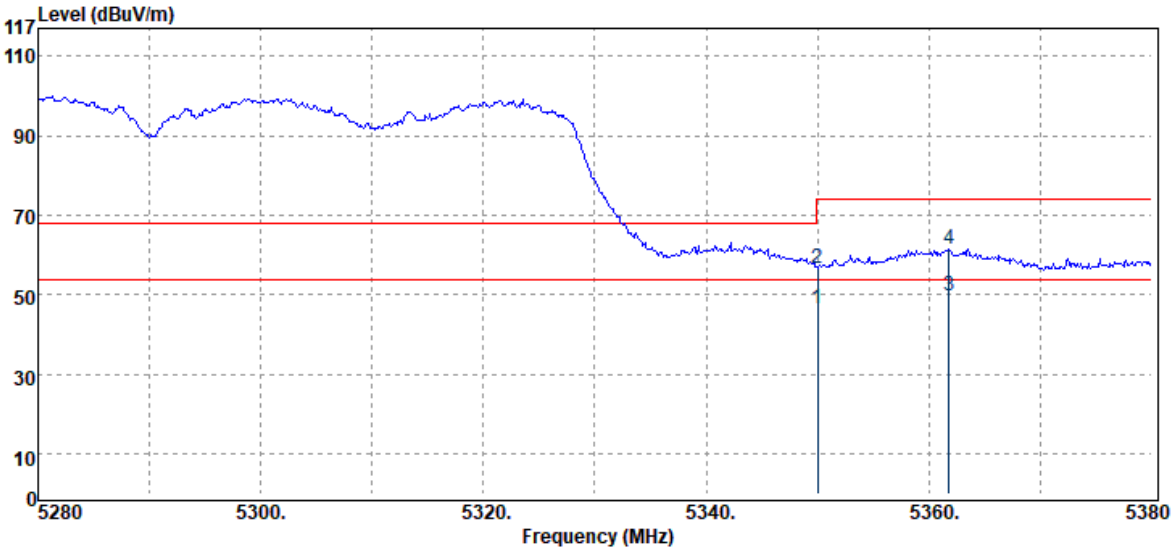
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11ac80	Test Date	:2020-09-16
Test Frequency	:5290 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



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	38.45	8.12	46.57	54.00	-7.43
5350.00	Peak	48.59	8.12	56.71	74.00	-17.29
5361.80	Average	41.85	8.13	49.98	54.00	-4.02
5361.80	Peak	53.31	8.13	61.44	74.00	-12.56

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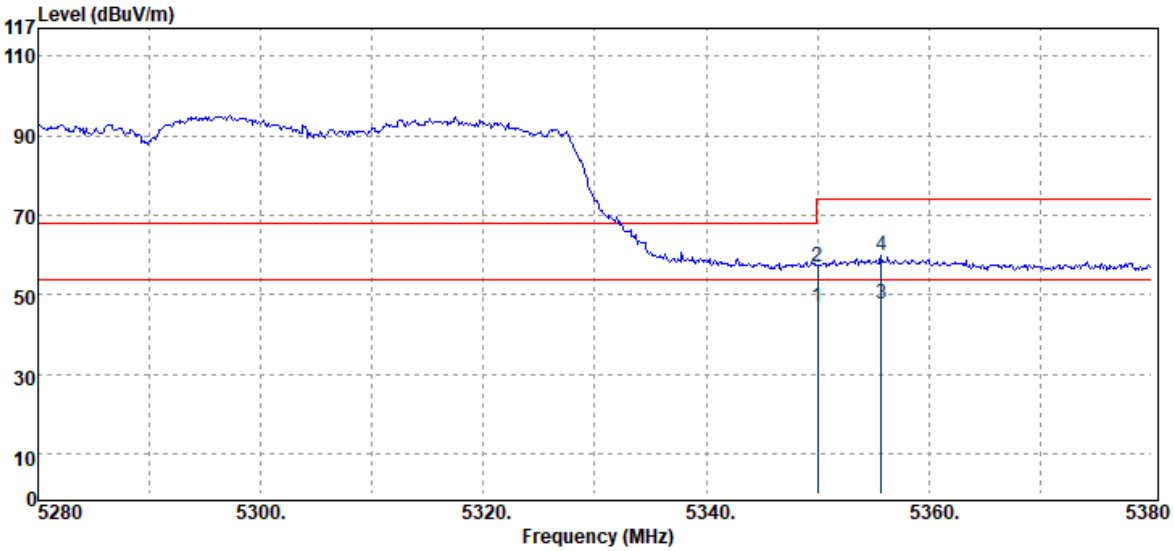
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11ac80	Test Date	:2020-09-16
Test Frequency	:5290 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



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	38.98	8.12	47.10	54.00	-6.90
5350.00	Peak	49.16	8.12	57.28	74.00	-16.72
5355.70	Average	39.85	8.12	47.97	54.00	-6.03
5355.70	Peak	51.63	8.12	59.75	74.00	-14.25

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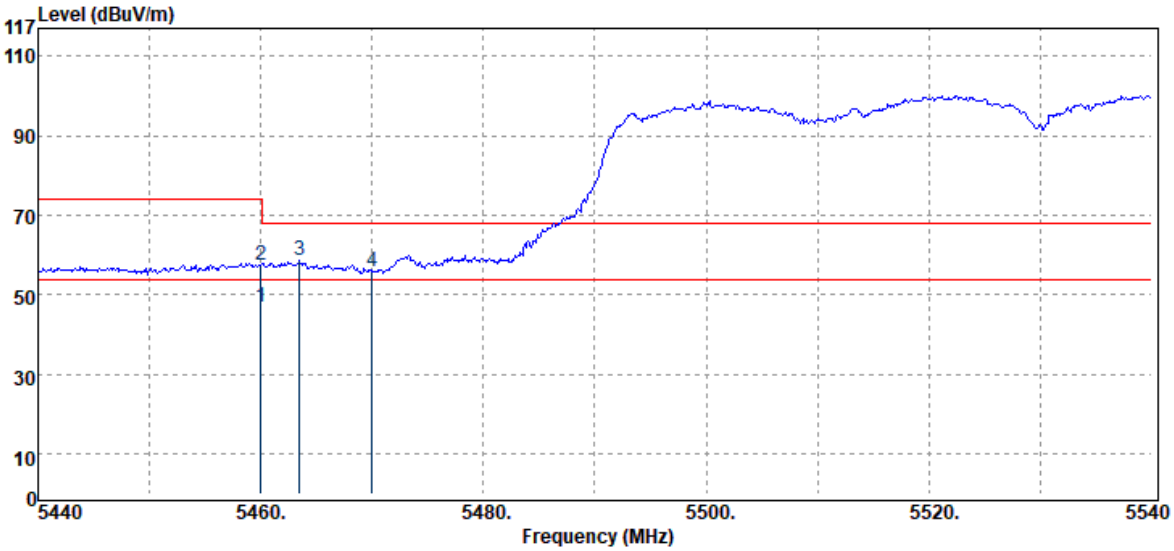
Report Number	:ER-2020-90016	Test Site	:SAC III Chamber
Operation Mode	:802.11ac80	Test Date	:2020-09-16
Test Frequency	:5530 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	38.76	8.06	46.82	54.00	-7.18
5460.00	Peak	49.30	8.06	57.36	74.00	-16.64
5463.50	Peak	50.45	8.07	58.52	68.20	-9.68
5470.00	Peak	47.98	8.07	56.05	68.20	-12.15

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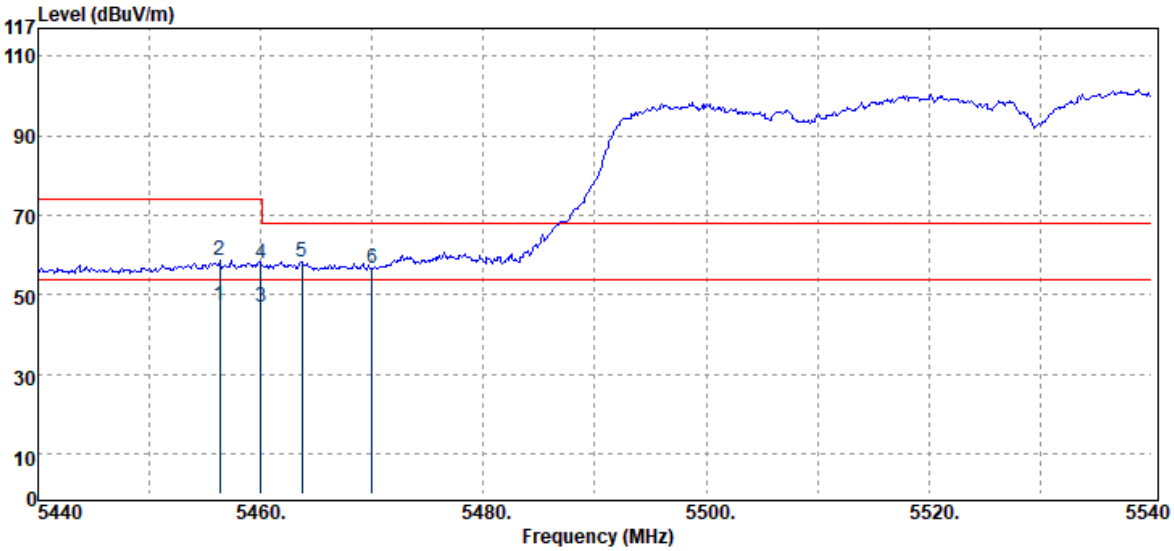
Operation Mode	:802.11ac80	Test Date	:2020-09-16
Test Frequency	:5530 MHz	Temp./Humi.	:25.1/61
Test Mode	:Bandedge CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5456.30	Average	39.12	8.07	47.19	54.00	-6.81
5456.30	Peak	50.80	8.07	58.87	74.00	-15.13
5460.00	Average	38.98	8.06	47.04	54.00	-6.96
5460.00	Peak	49.73	8.06	57.79	74.00	-16.21
5463.70	Peak	50.31	8.07	58.38	68.20	-9.82
5470.00	Peak	48.52	8.07	56.59	68.20	-11.61

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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

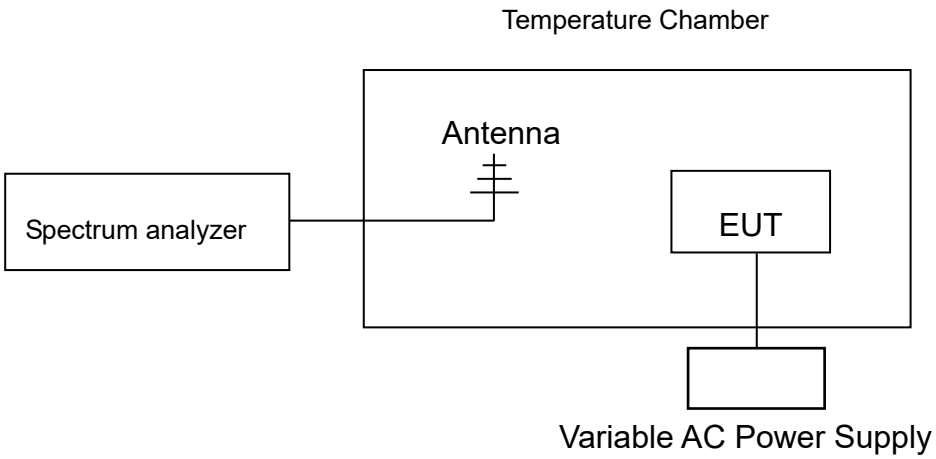
13.1 Standard Applicable

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



13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	May 6th, 2020	May 5th, 2021
DC Block	Mini-Circuits	BLK-18-S+	1	Jan. 2nd, 2020	Jan. 1st, 2021
Temperature Chamber	TERCHY	MHG-120LF	911009	May 20th, 2020	May 19th, 2021
Attenuator	Mini-Circuit	BW-S10W2+	2	Jan. 2nd, 2020	Jan. 1st, 2021

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13.5 Measurement Result

Start up

Operation Mode	802.11 a	Test Date	2020.09.18
Temperature	: 24.9℃	Test By	Tom
Humidity	: 67%		

Test Temp.(℃)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.29	36	5180	5,179.96800	0.00000618
	3.51	36	5180	5,179.93300	0.00001293
25	3.85	36	5180	5,179.95700	0.00000830
55	4.29	36	5180	5,180.05500	-0.00001062
	3.51	36	5180	5,180.04000	-0.00000772

2 minutes

Operation Mode	802.11 a	Test Date	2020.09.18
Temperature	: 24.9℃	Test By	Tom
Humidity	: 67%		

Test Temp.(℃)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.29	36	5180	5,179.92500	0.00001448
	3.51	36	5180	5,179.98600	0.00000270
25	3.85	36	5180	5,180.45000	-0.00008687
55	4.29	36	5180	5,180.04100	-0.00000792
	3.51	36	5180	5,180.03800	-0.00000734

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5 minutes

Operation Mode	802.11 a	Test Date	2020.09.18
Temperature	: 24.9℃	Test By	Tom
Humidity	: 67%		

Test Temp.(℃)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.29	36	5180	5,179.97300	0.00000521
	3.51	36	5180	5,179.90100	0.00001911
25	3.85	36	5180	5,180.46000	-0.00008880
55	4.29	36	5180	5,180.01800	-0.00000347
	3.51	36	5180	5,180.08100	-0.00001564

10 minutes

Operation Mode	802.11 a	Test Date	2020.09.18
Temperature	: 24.9℃	Test By	Tom
Humidity	: 67%		

Test Temp.(℃)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.29	36	5180	5,179.94400	0.00001081
	3.51	36	5180	5,179.97800	0.00000425
25	3.85	36	5180	5,179.97600	0.00000463
55	4.29	36	5180	5,180.02100	-0.00000405
	3.51	36	5180	5,180.09900	-0.00001911

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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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