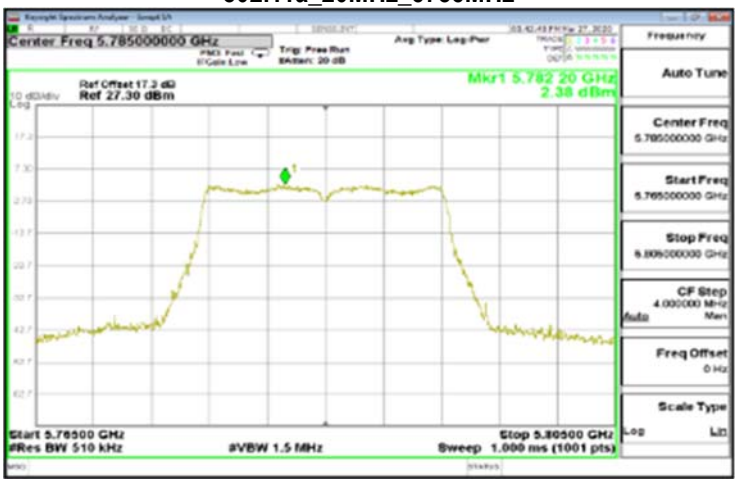
802.11a_20MHz_5785MHz



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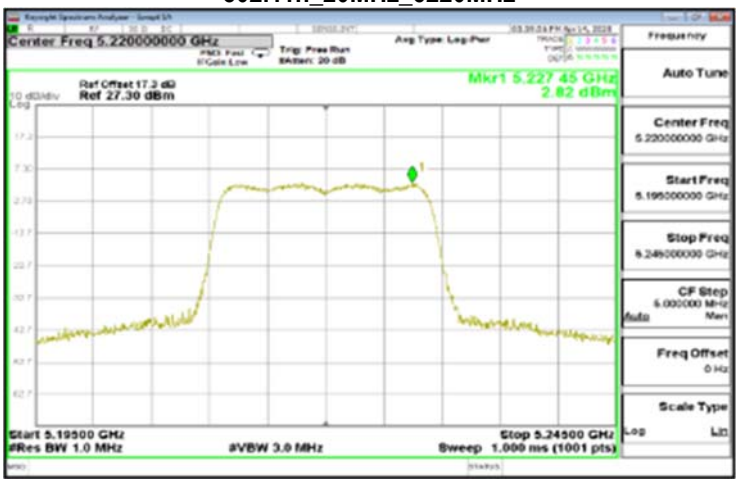

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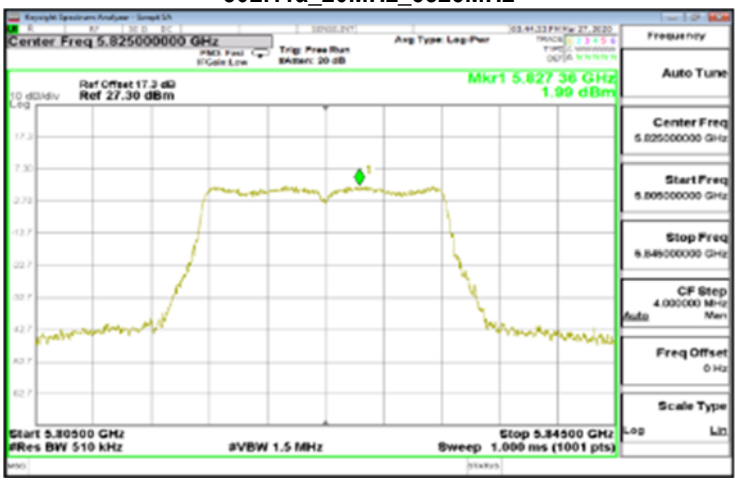

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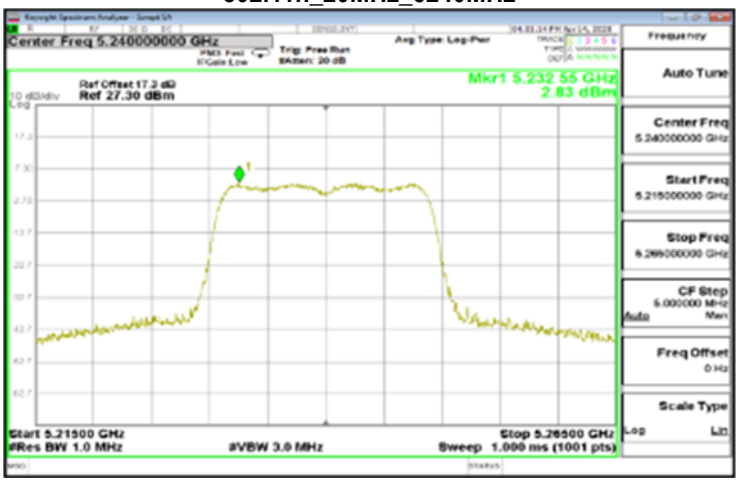

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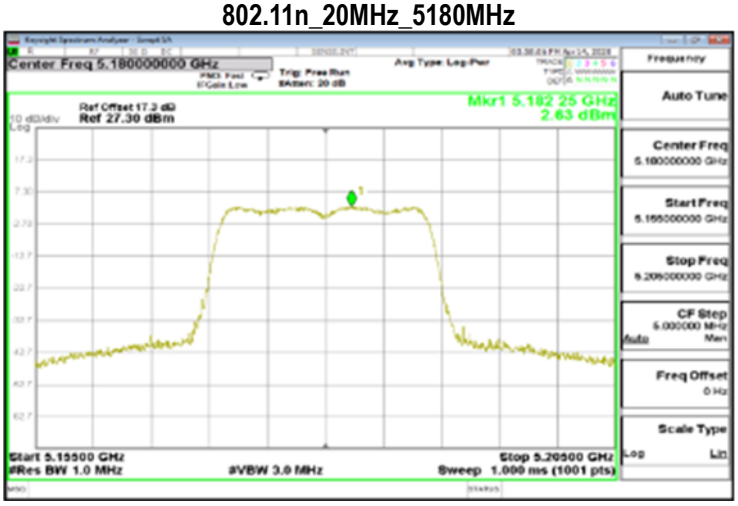
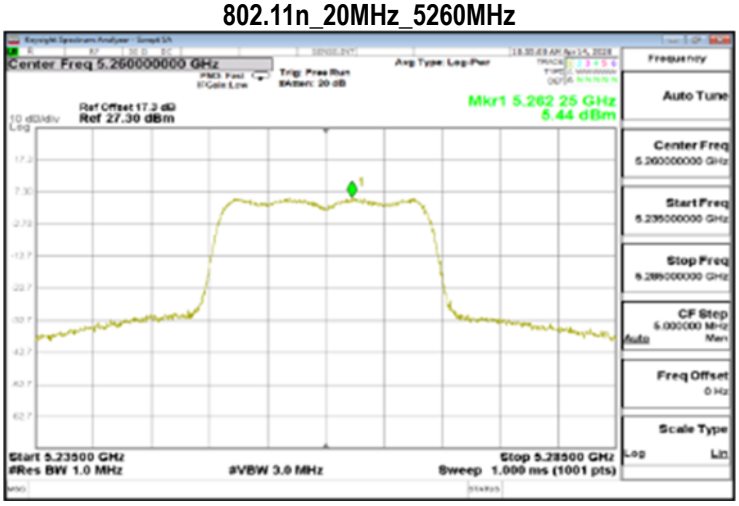


802.11n_20MHz_5260MHz



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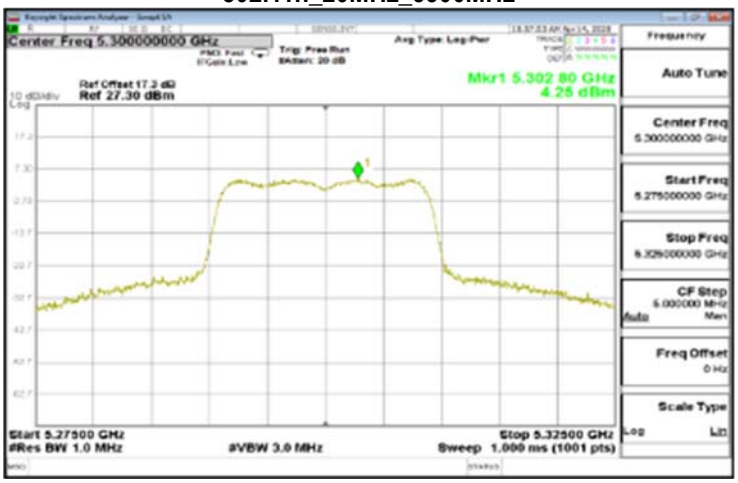
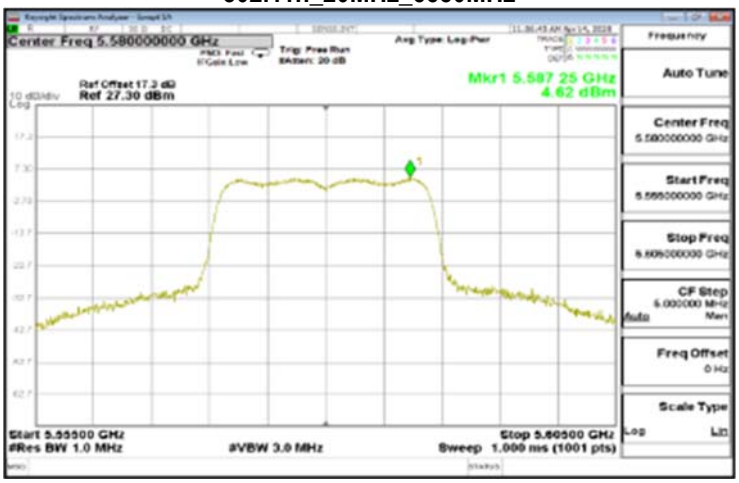
802.11n_20MHz_5300MHz



802.11n_20MHz_5580MHz



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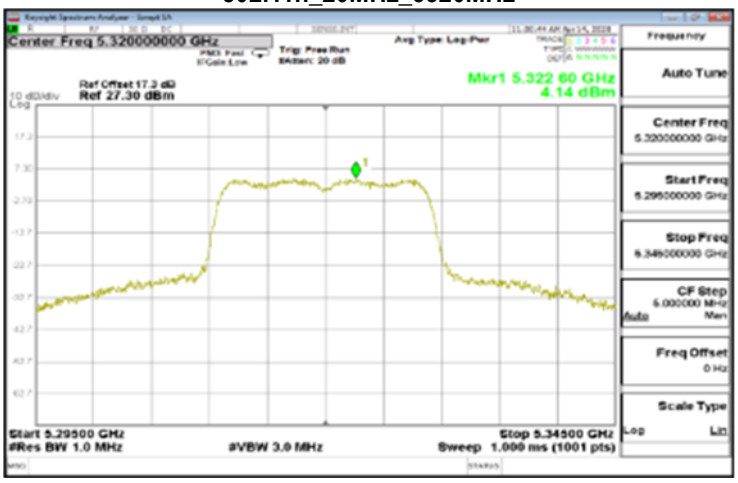

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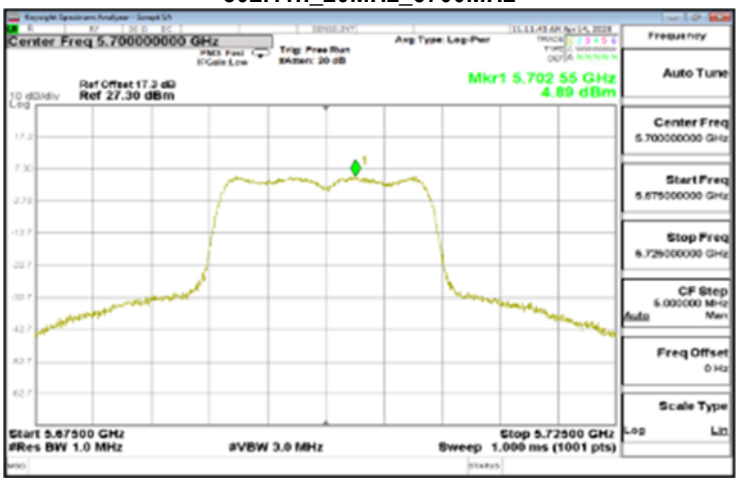

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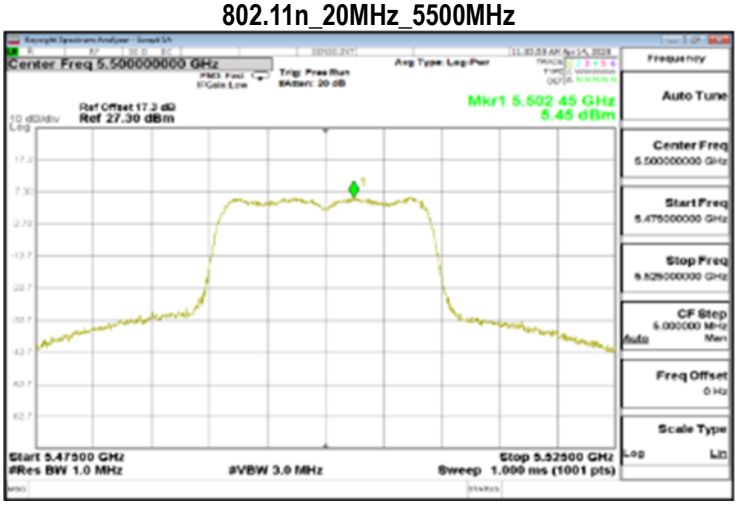
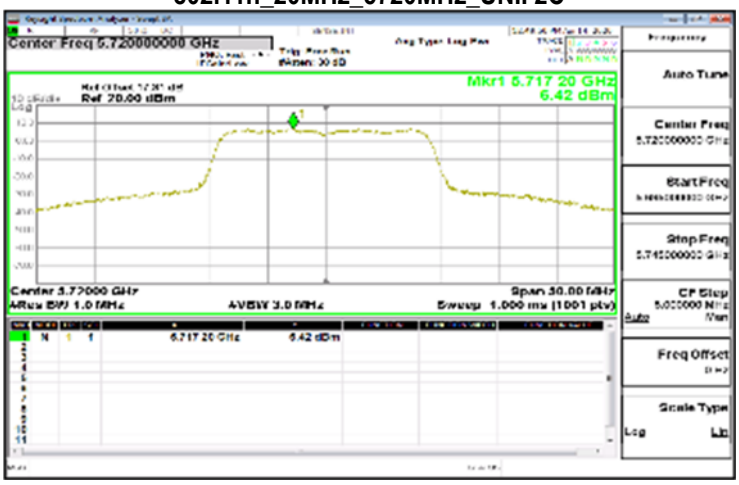


802.11n_20MHz_5720MHz_UNII 2C



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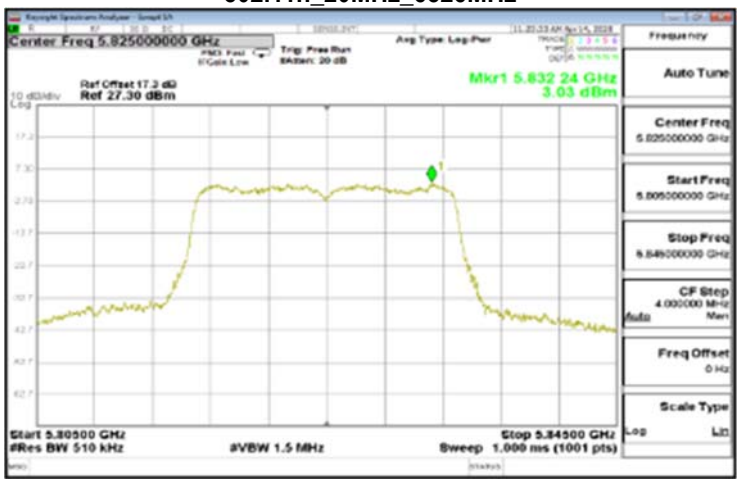
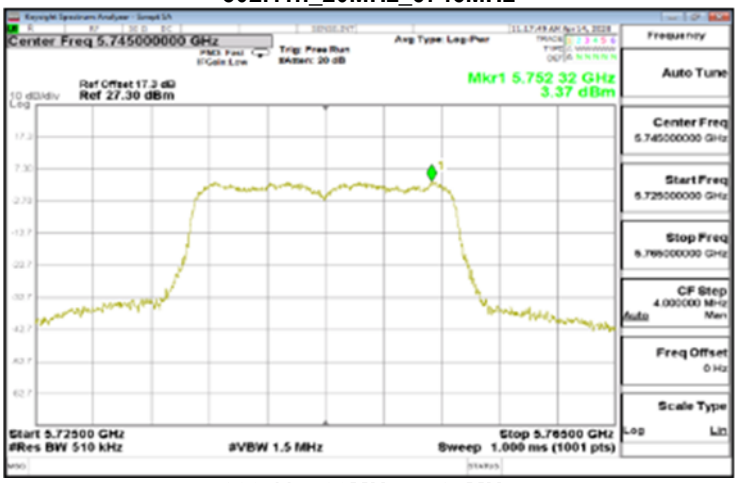
802.11n_20MHz_5720MHz_UNII 3

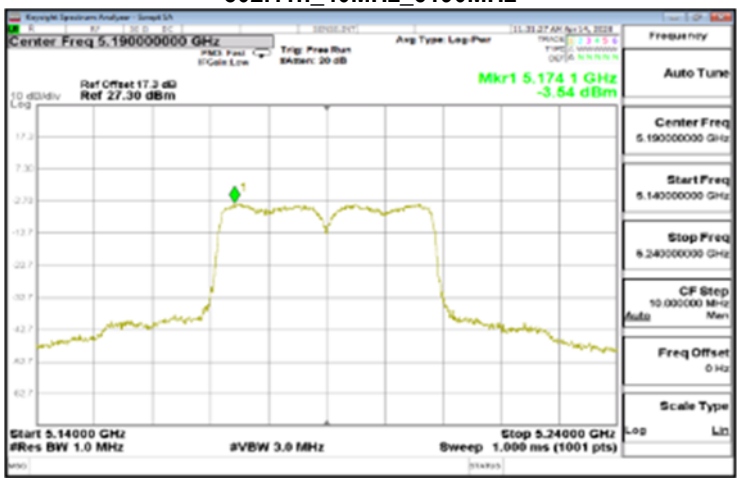
802.11n_20MHz_5825MHz



802.11n_20MHz_5745MHz



802.11n_40MHz_5190MHz



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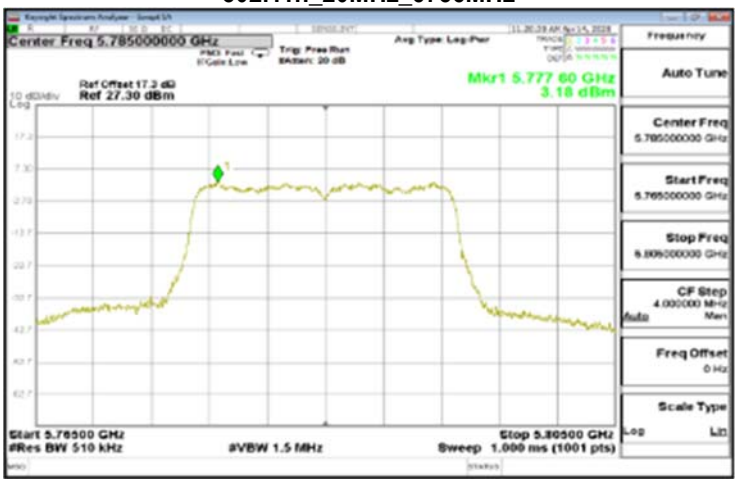
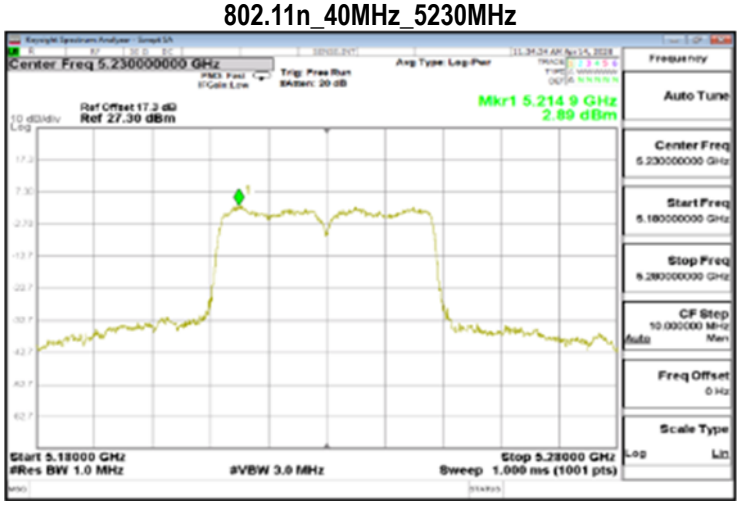


802.11n_40MHz_5230MHz



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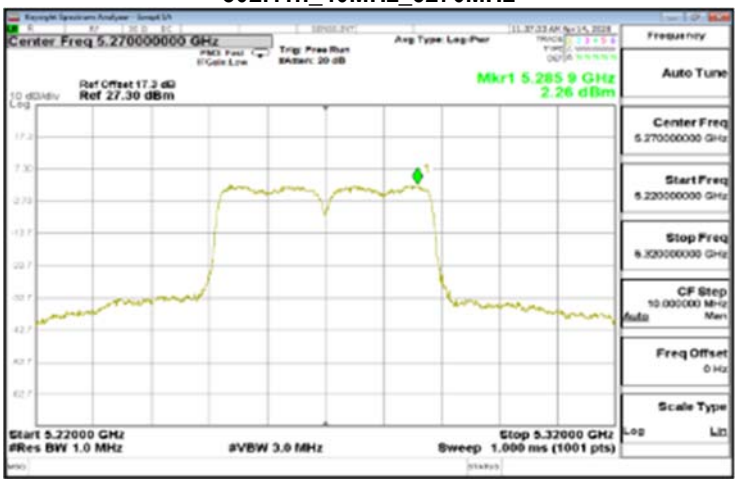
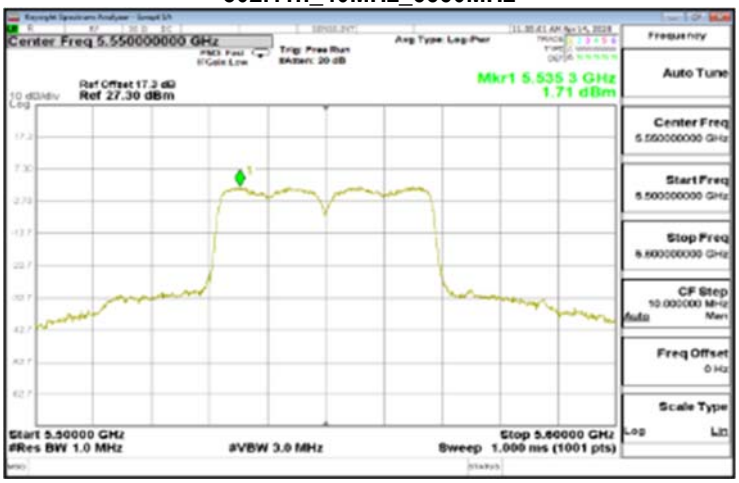
802.11n_40MHz_5270MHz



802.11n_40MHz_5550MHz



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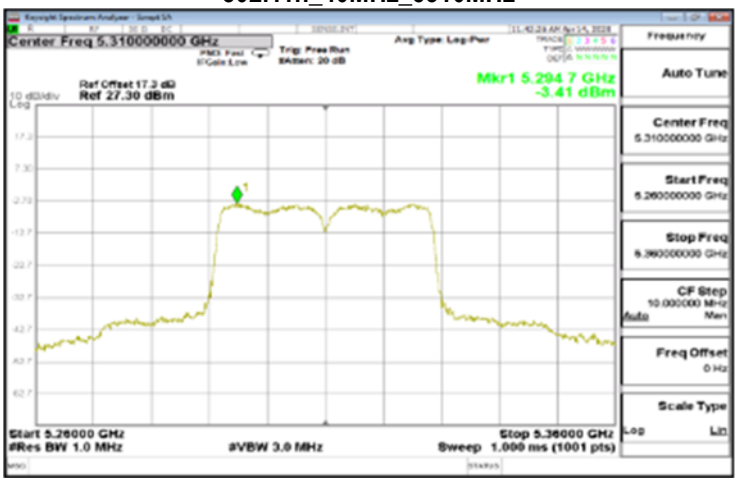
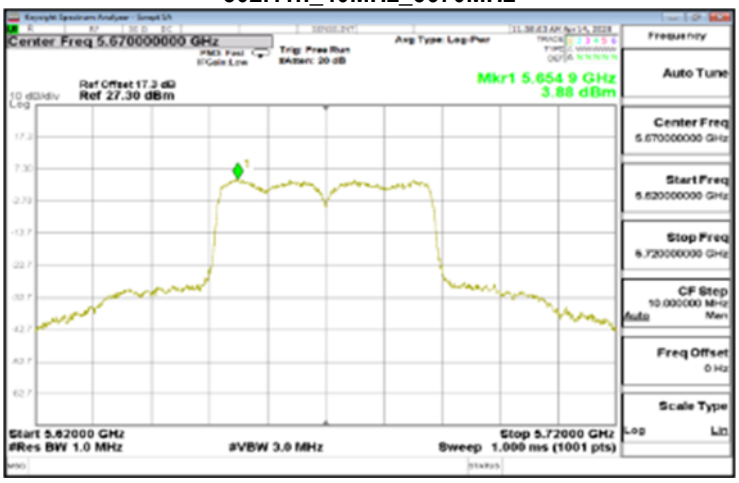
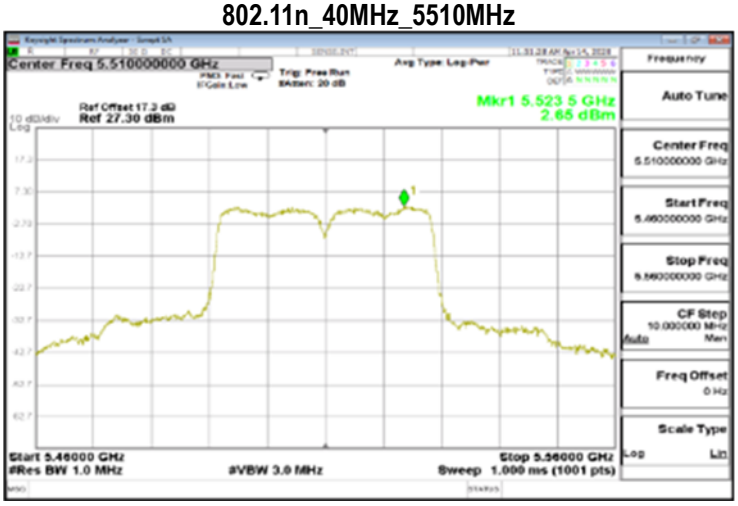


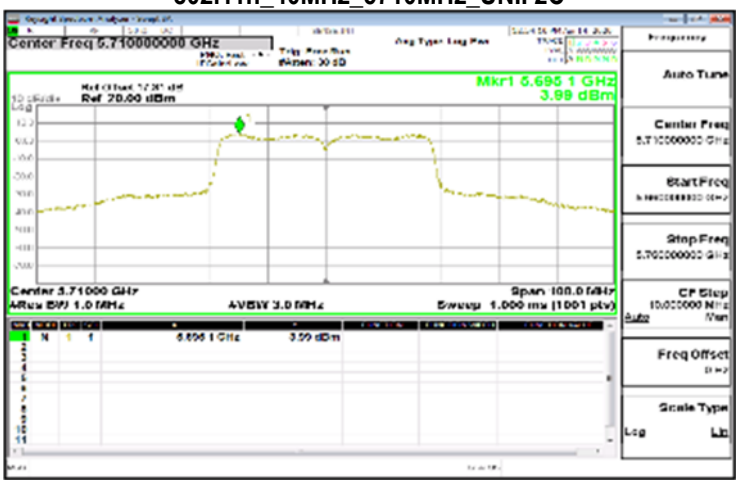
802.11n_40MHz_5670MHz



802.11n_40MHz_5510MHz



802.11n_40MHz_5710MHz_UNII 2C



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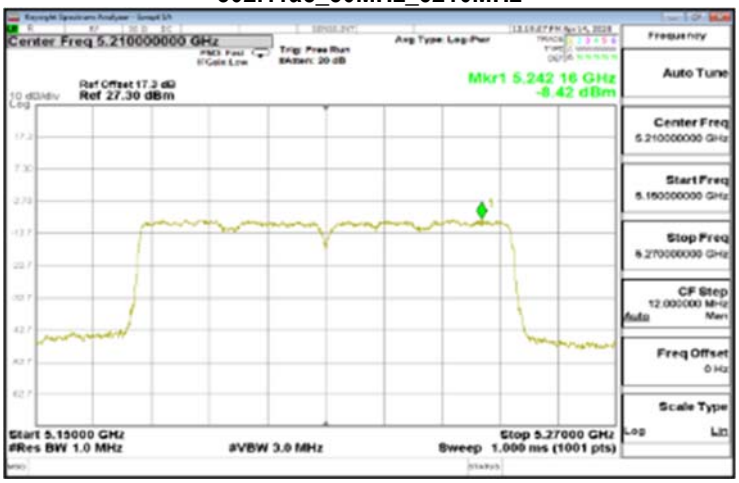
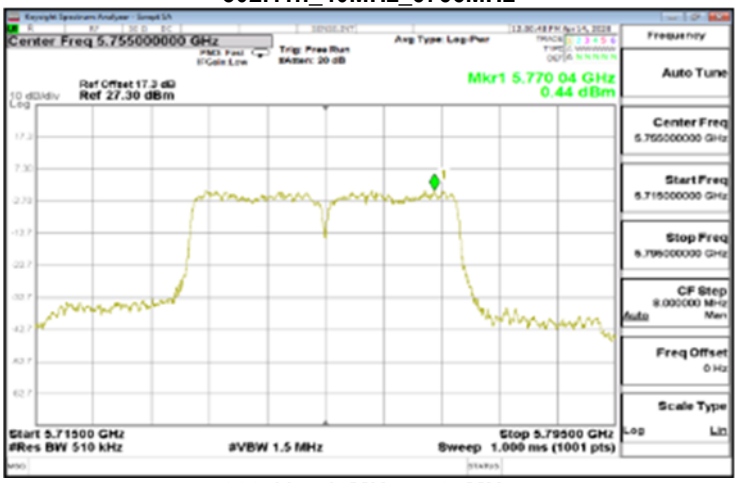
802.11n_40MHz_5710MHz_UNII 3

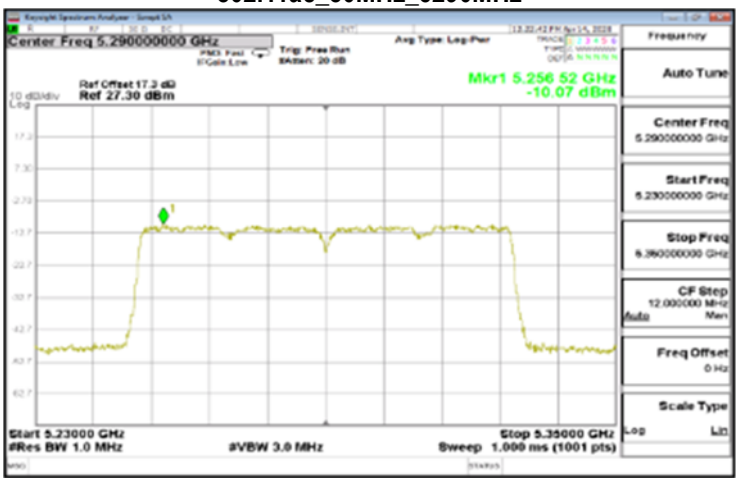
802.11ac_80MHz_5210MHz



802.11n_40MHz_5755MHz



802.11ac_80MHz_5290MHz



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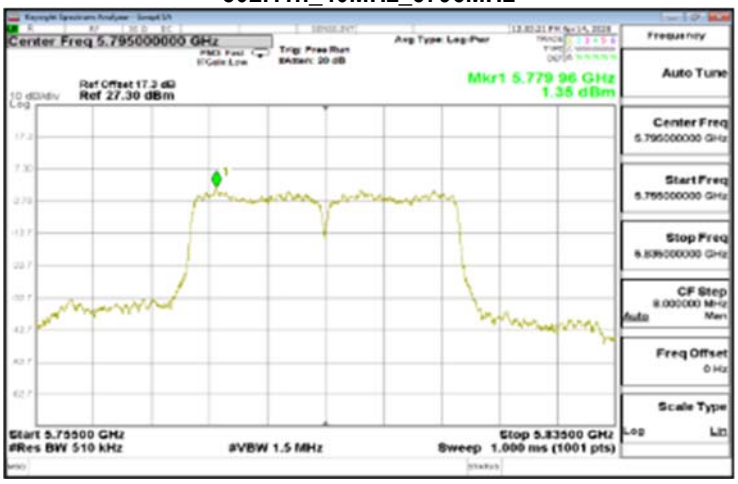
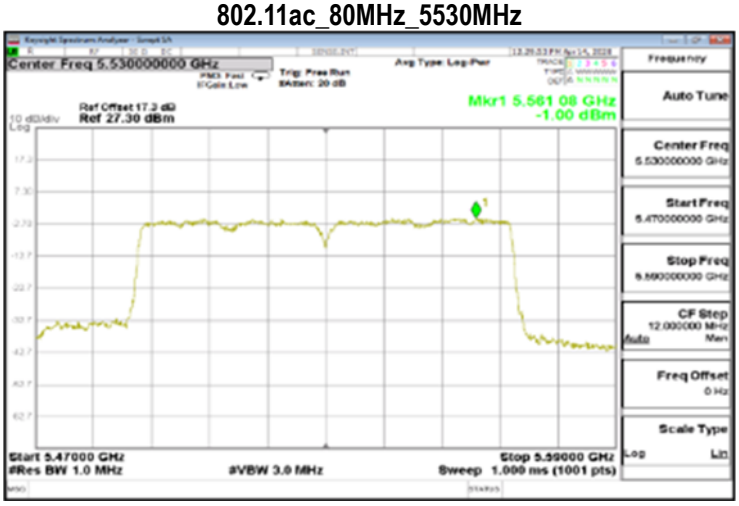


802.11ac_80MHz_5530MHz



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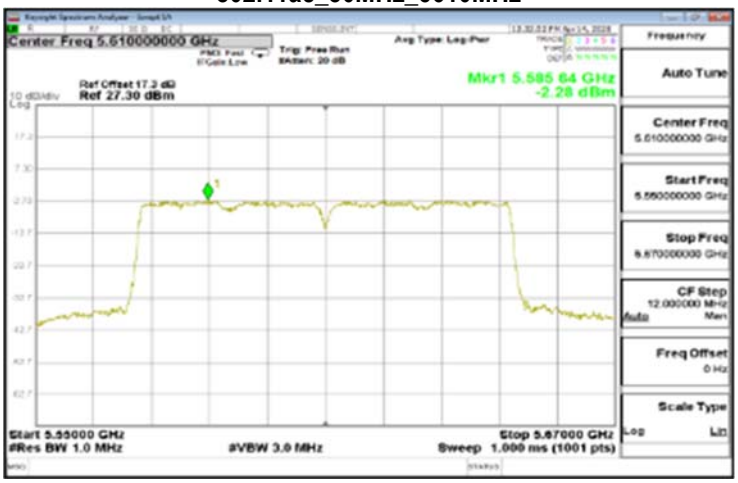
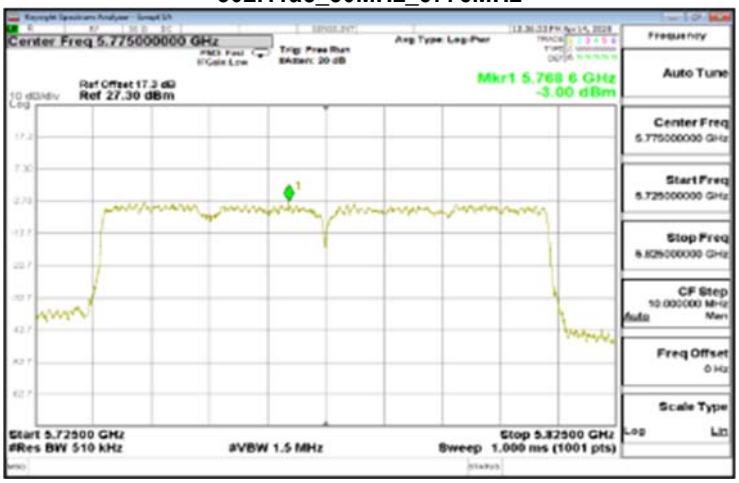
802.11ac_80MHz_5610MHz



802.11ac_80MHz_5775MHz



802.11ac_80MHz_5690MHz_UNII 2C

802.11ac_80MHz_5690MHz_UNII 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					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2019	12/24/2020
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/20/2019	12/19/2020
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2020	01/12/2021
Loop Antenna	ETS.LINDGREN	6502	148045	10/15/2019	10/14/2020
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/23/2019	10/22/2020
EMI Test Receiver	R&S	ESCI 7	1166.5950.07	07/04/2019	07/03/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/02/2020	01/01/2021
Pre-Amplifier	EMC Instruments	EMC051825	980152	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A09469	01/02/2020	01/01/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	01/02/2020	01/01/2021
Filter 5150-5350 MHz	Micro-Tronics	BRM50703	1	01/02/2020	01/01/2021
Filter 5470-5725 MHz	Micro-Tronics	BRM50704	1	01/02/2020	01/01/2021
Filter 5725-5875 MHz	Micro-Tronics	BRM50705	1	01/02/2020	01/01/2021
High Pass Filter	WI	WHKX7.0/18G-8SS	45	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	01/02/2020	01/01/2021

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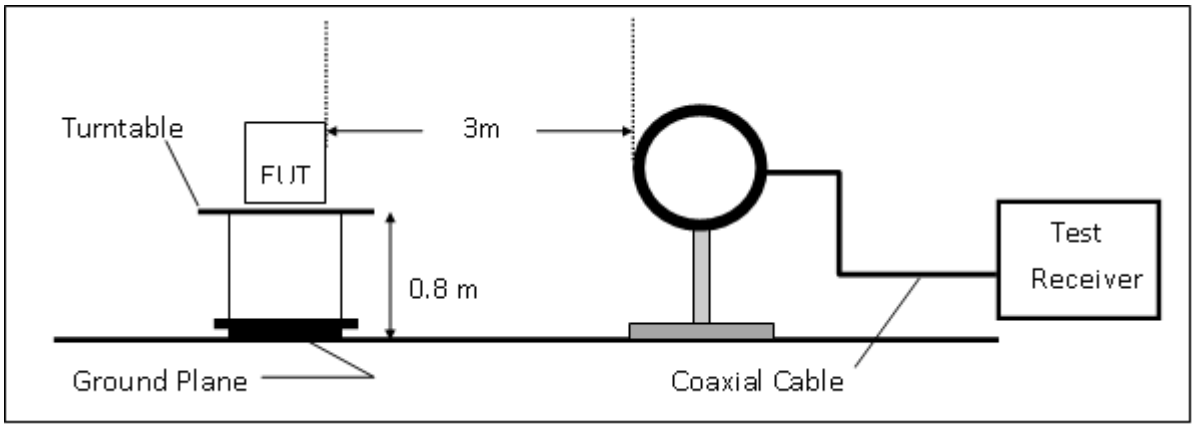
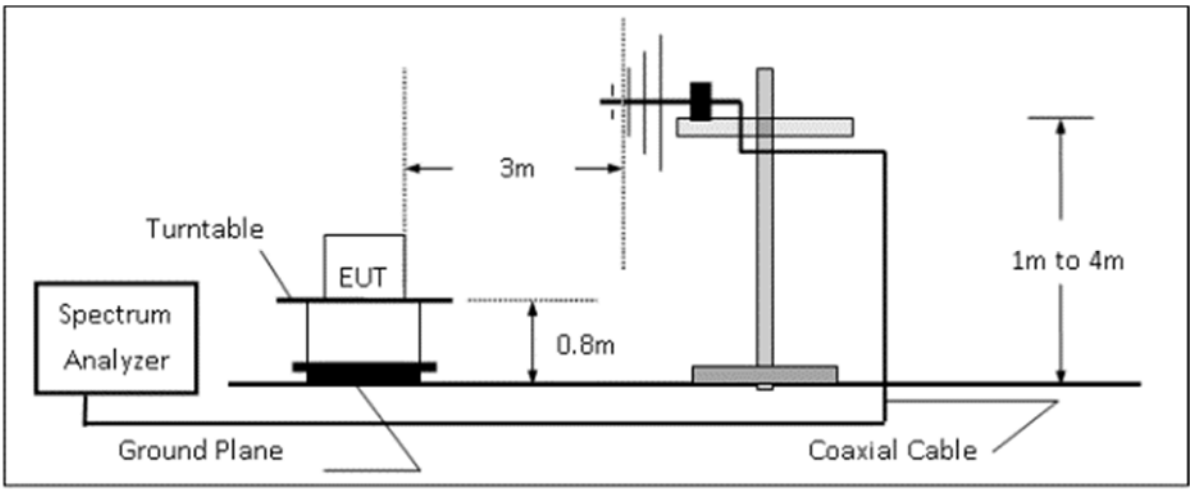
11.3 Test SET-UP

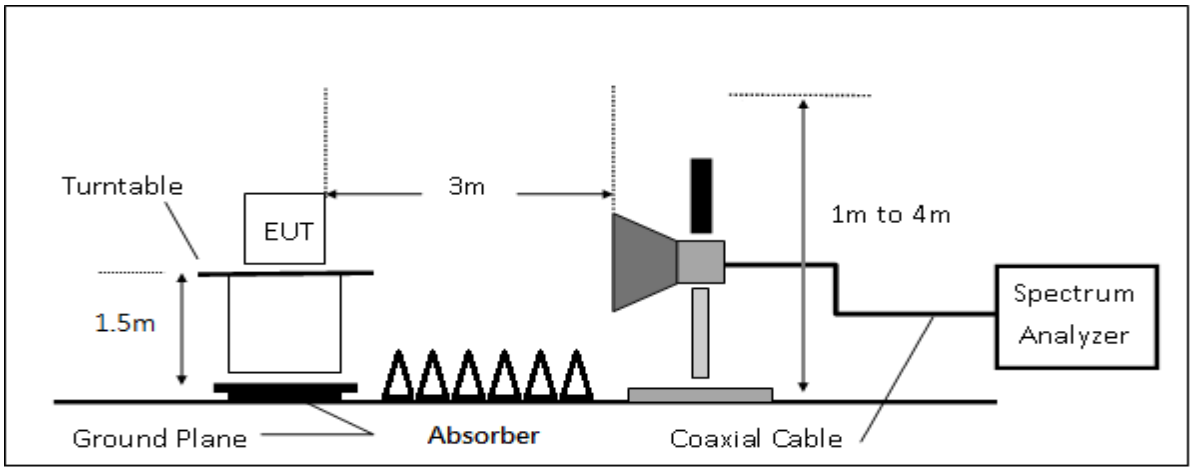
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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) & RSS-GEN §6.13.2 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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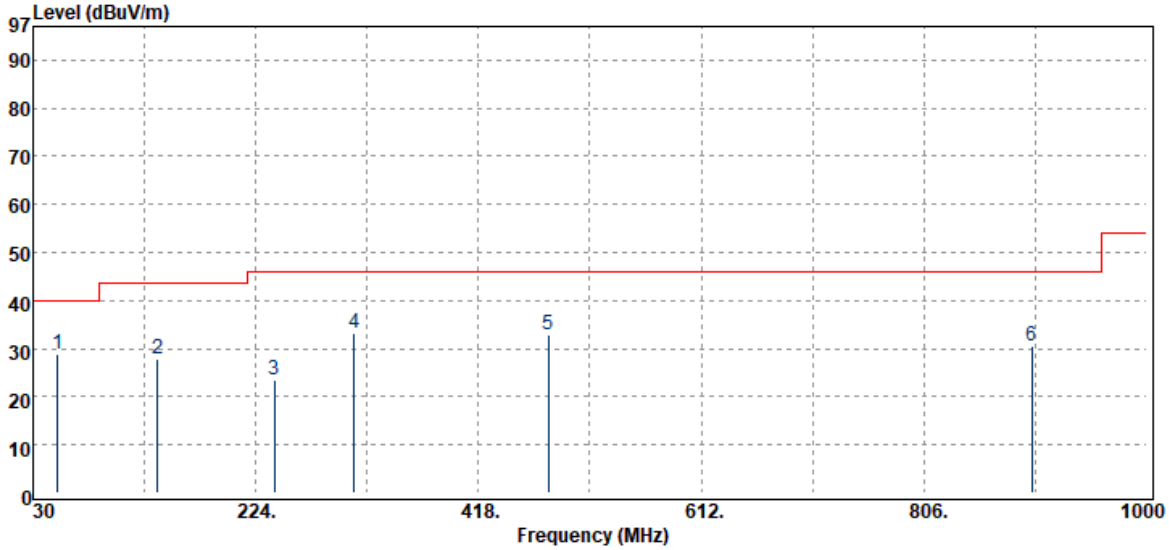
11.7 Radiated Spurious Emission Measurement Result

11.7.1 Below 1GHz Worst-Case Data:

Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B1	Temp./Humi.	:21.6/64
Test Frequency	:5220 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



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	44.15	-15.28	28.87	40.00	-11.13
138.64	Peak	39.50	-11.58	27.92	43.50	-15.58
240.49	Peak	33.72	-10.12	23.60	46.00	-22.40
309.36	Peak	41.56	-8.24	33.32	46.00	-12.68
479.11	Peak	38.23	-5.37	32.86	46.00	-13.14
900.09	Peak	29.30	1.12	30.42	46.00	-15.58

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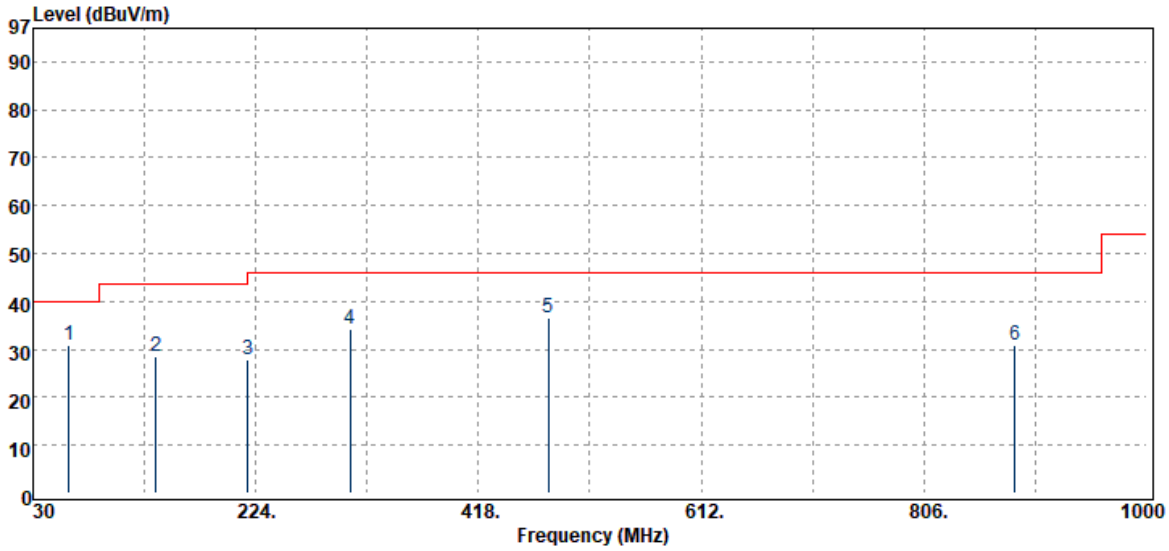
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B1	Temp./Humi.	:21.6/64
Test Frequency	:5220 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	47.90	-17.16	30.74	40.00	-9.26
136.70	Peak	40.16	-11.48	28.68	43.50	-14.82
217.21	Peak	39.82	-12.00	27.82	46.00	-18.18
306.45	Peak	42.56	-8.34	34.22	46.00	-11.78
479.11	Peak	41.90	-5.37	36.53	46.00	-9.47
885.54	Peak	29.93	0.81	30.74	46.00	-15.26

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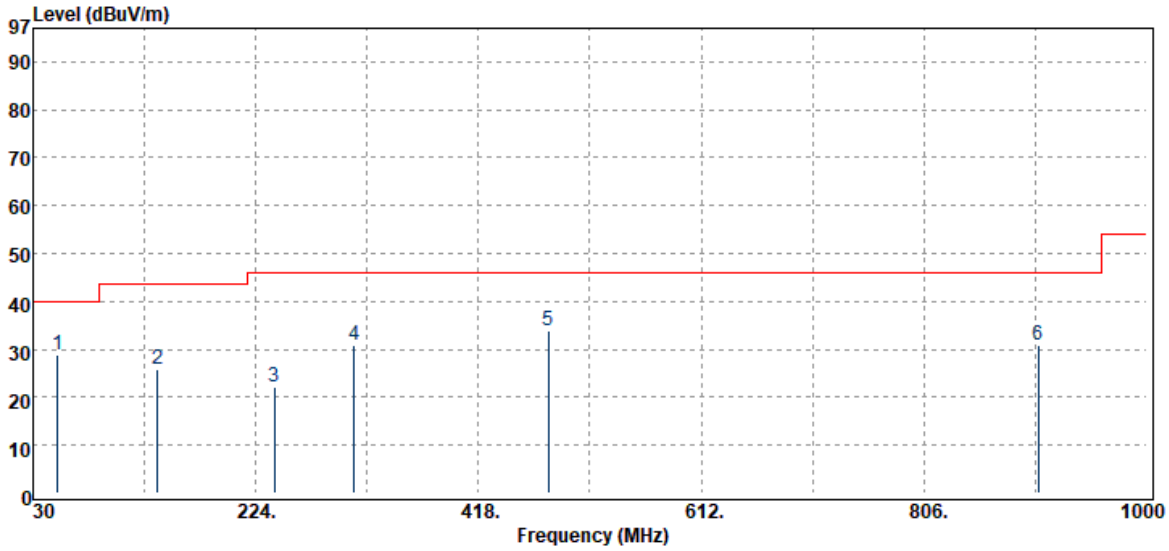
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B2	Temp./Humi.	:21.6/64
Test Frequency	:5300 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



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	44.08	-15.28	28.80	40.00	-11.20
138.64	Peak	37.52	-11.58	25.94	43.50	-17.56
240.49	Peak	32.33	-10.12	22.21	46.00	-23.79
309.36	Peak	39.27	-8.24	31.03	46.00	-14.97
479.11	Peak	39.36	-5.37	33.99	46.00	-12.01
905.91	Peak	29.83	0.94	30.77	46.00	-15.23

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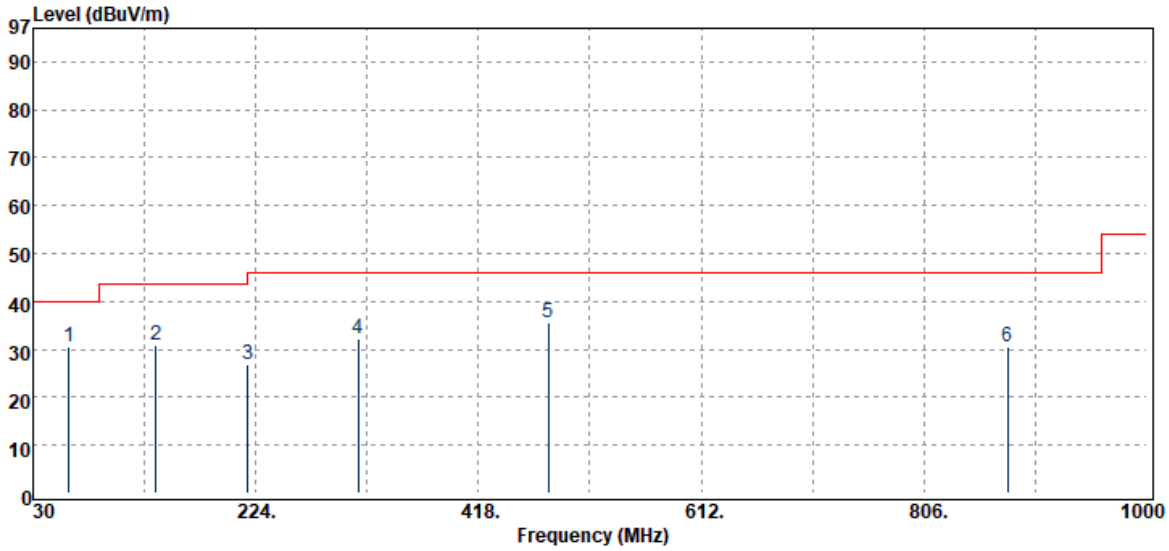
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B2	Temp./Humi.	:21.6/64
Test Frequency	:5300 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	47.57	-17.16	30.41	40.00	-9.59
136.70	Peak	42.43	-11.48	30.95	43.50	-12.55
217.21	Peak	38.89	-12.00	26.89	46.00	-19.11
313.24	Peak	40.30	-8.02	32.28	46.00	-13.72
479.11	Peak	41.10	-5.37	35.73	46.00	-10.27
878.75	Peak	29.95	0.59	30.54	46.00	-15.46

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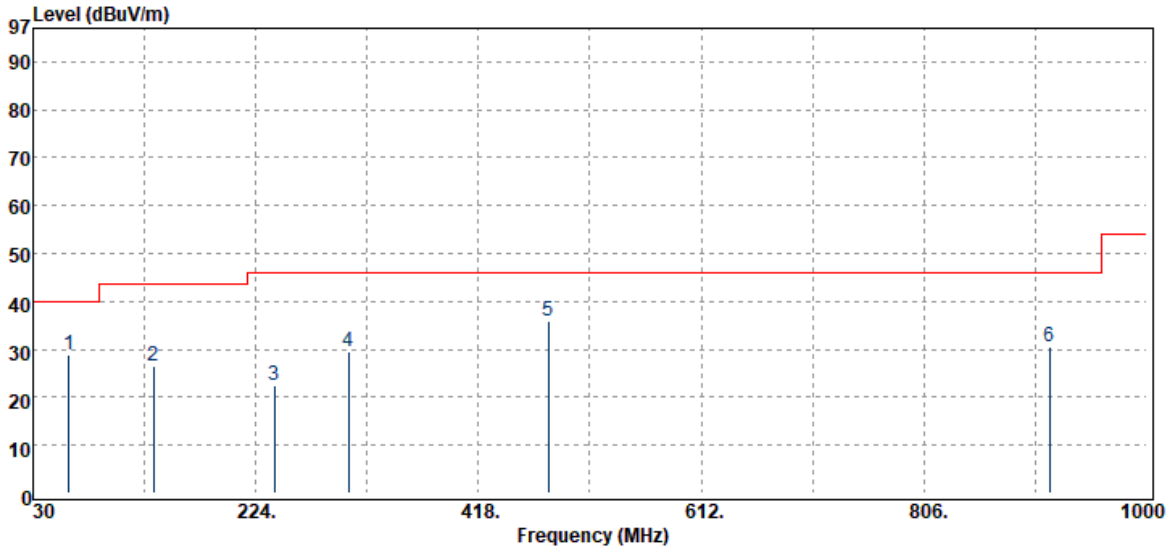
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B3	Temp./Humi.	:21.6/64
Test Frequency	:5580 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
61.04	Peak	46.04	-17.16	28.88	40.00	-11.12
134.76	Peak	37.77	-11.36	26.41	43.50	-17.09
240.49	Peak	32.56	-10.12	22.44	46.00	-23.56
304.51	Peak	37.92	-8.41	29.51	46.00	-16.49
479.11	Peak	41.31	-5.37	35.94	46.00	-10.06
915.61	Peak	29.79	0.74	30.53	46.00	-15.47

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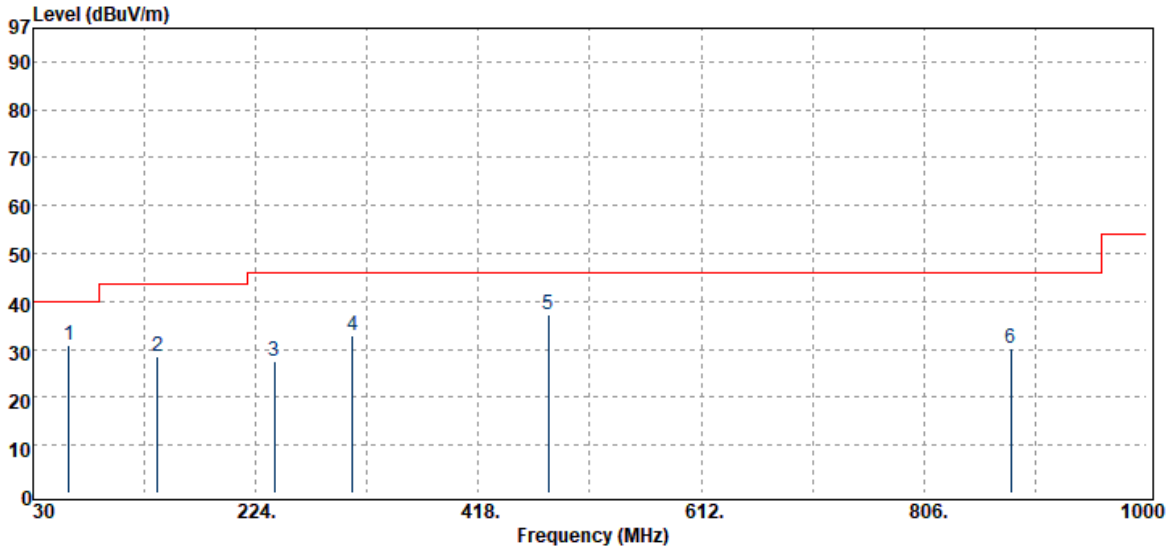
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B3	Temp./Humi.	:21.6/64
Test Frequency	:5580 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	47.94	-17.16	30.78	40.00	-9.22
138.64	Peak	40.13	-11.58	28.55	43.50	-14.95
240.49	Peak	37.66	-10.12	27.54	46.00	-18.46
308.39	Peak	41.22	-8.28	32.94	46.00	-13.06
479.11	Peak	42.73	-5.37	37.36	46.00	-8.64
881.66	Peak	29.68	0.68	30.36	46.00	-15.64

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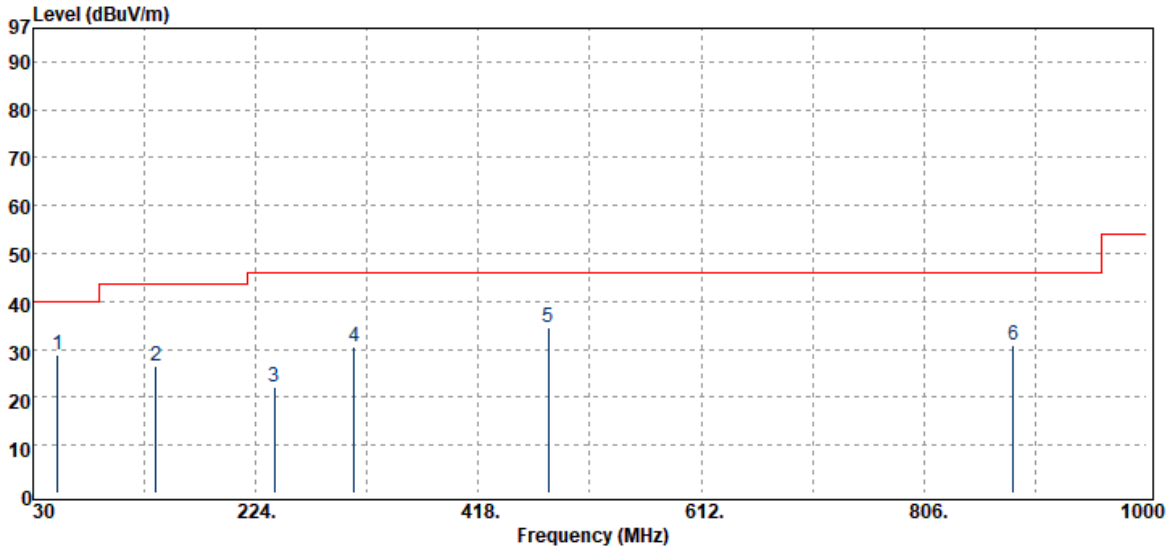
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B4	Temp./Humi.	:21.6/64
Test Frequency	:5785 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



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	44.15	-15.28	28.87	40.00	-11.13
136.70	Peak	38.05	-11.48	26.57	43.50	-16.93
240.49	Peak	32.16	-10.12	22.04	46.00	-23.96
309.36	Peak	38.91	-8.24	30.67	46.00	-15.33
479.11	Peak	39.77	-5.37	34.40	46.00	-11.60
883.60	Peak	30.17	0.74	30.91	46.00	-15.09

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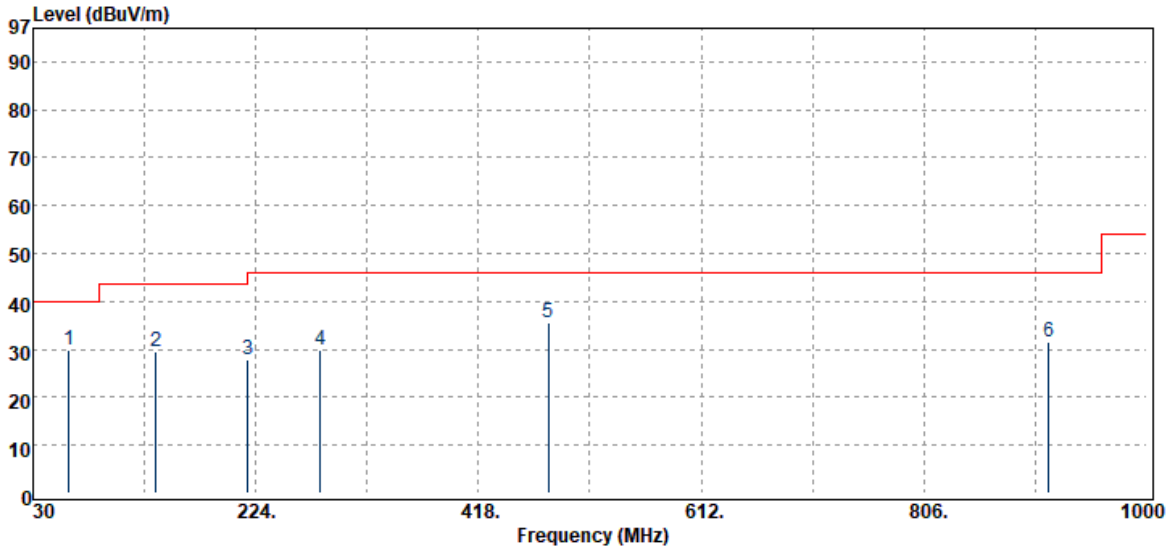
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B4	Temp./Humi.	:21.6/64
Test Frequency	:5785 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	46.90	-17.16	29.74	40.00	-10.26
136.70	Peak	41.02	-11.48	29.54	43.50	-13.96
217.21	Peak	39.78	-12.00	27.78	46.00	-18.22
280.26	Peak	38.75	-8.81	29.94	46.00	-16.06
479.11	Peak	40.79	-5.37	35.42	46.00	-10.58
914.64	Peak	30.64	0.75	31.39	46.00	-14.61

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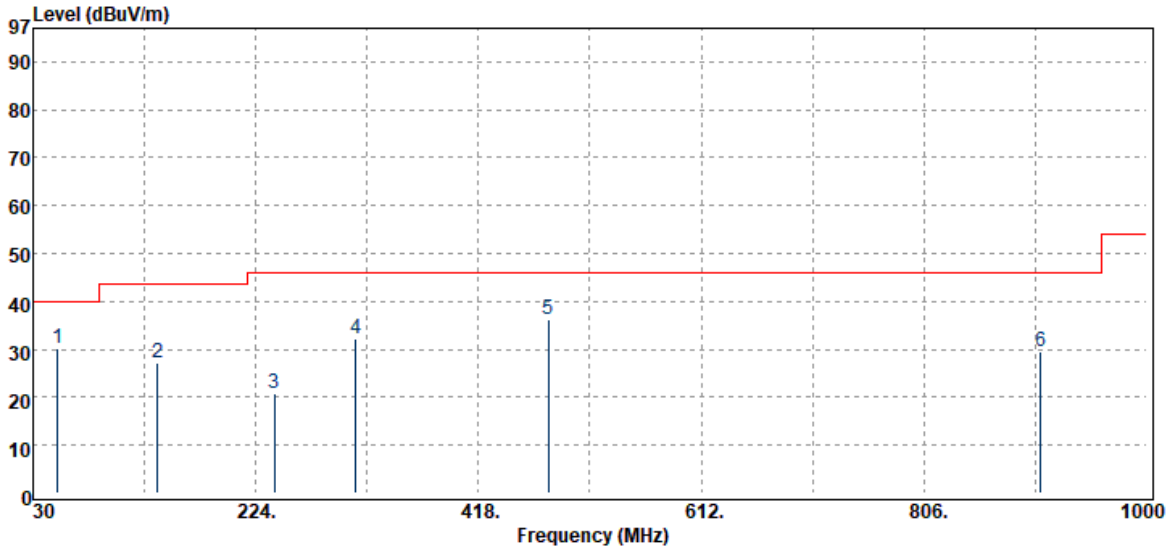
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11ac80 B1	Temp./Humi.	:21.6/64
Test Frequency	:5210 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	45.53	-15.28	30.25	40.00	-9.75
138.64	Peak	38.68	-11.58	27.10	43.50	-16.40
240.49	Peak	30.80	-10.12	20.68	46.00	-25.32
311.30	Peak	40.21	-8.15	32.06	46.00	-13.94
479.11	Peak	41.77	-5.37	36.40	46.00	-9.60
907.85	Peak	28.65	0.92	29.57	46.00	-16.43

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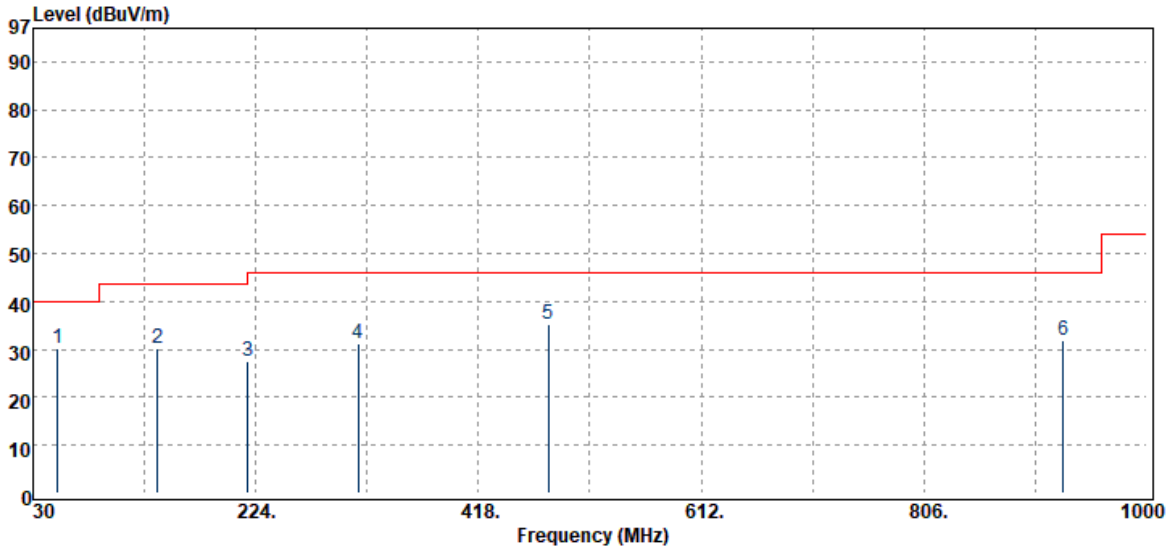
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11ac80 B1	Temp./Humi.	:21.6/64
Test Frequency	:5210 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	45.38	-15.28	30.10	40.00	-9.90
138.64	Peak	41.86	-11.58	30.28	43.50	-13.22
217.21	Peak	39.54	-12.00	27.54	46.00	-18.46
313.24	Peak	39.19	-8.02	31.17	46.00	-14.83
479.11	Peak	40.48	-5.37	35.11	46.00	-10.89
927.25	Peak	31.10	0.63	31.73	46.00	-14.27

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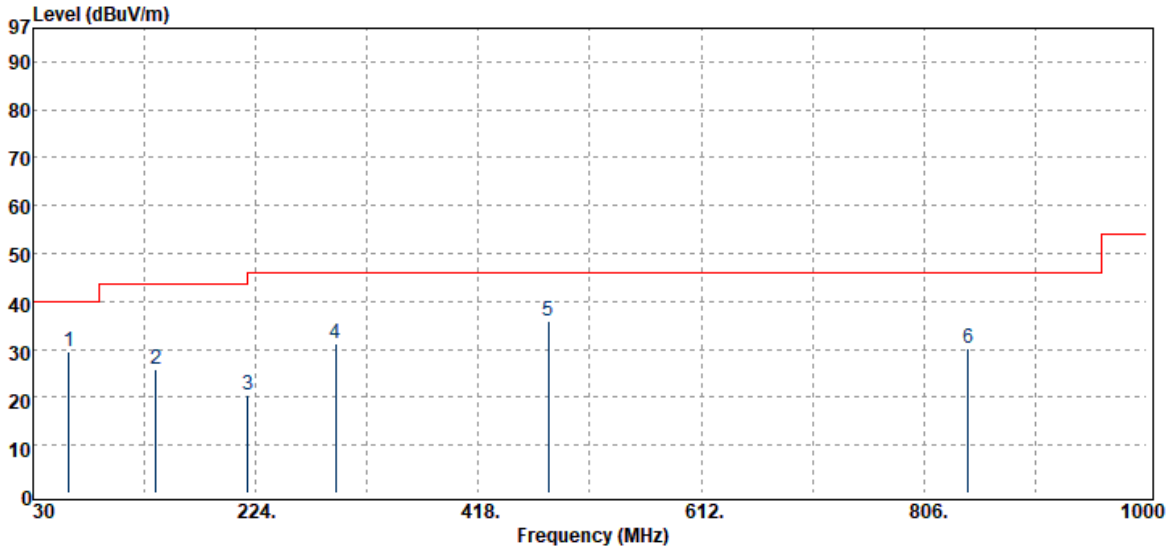
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11ac80 B2	Temp./Humi.	:21.6/64
Test Frequency	:5290 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	46.65	-17.16	29.49	40.00	-10.51
136.70	Peak	37.34	-11.48	25.86	43.50	-17.64
217.21	Peak	32.52	-12.00	20.52	46.00	-25.48
293.84	Peak	39.65	-8.59	31.06	46.00	-14.94
479.11	Peak	41.30	-5.37	35.93	46.00	-10.07
844.80	Peak	29.95	0.31	30.26	46.00	-15.74

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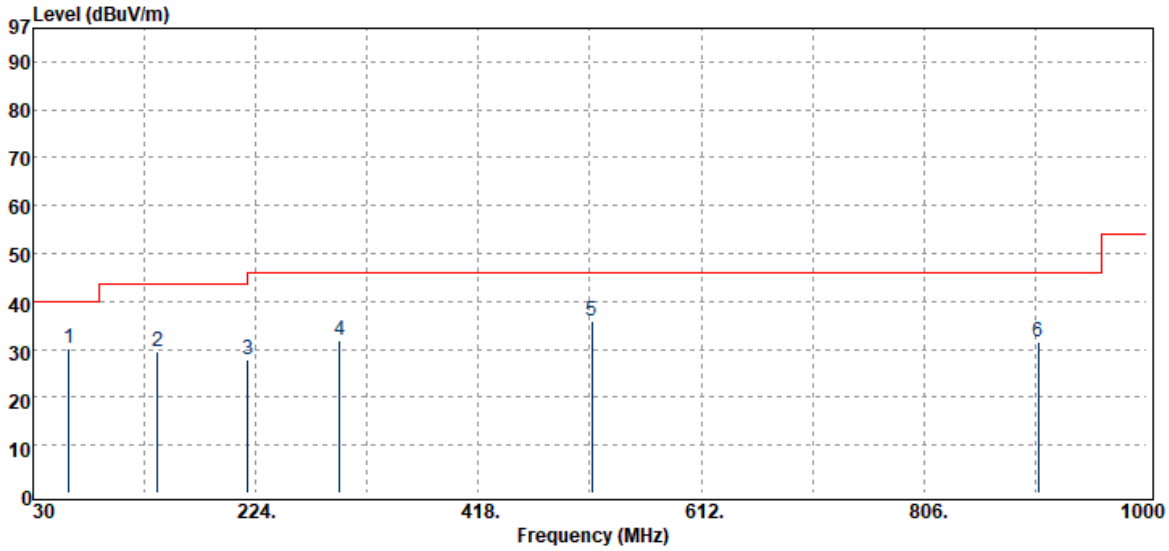
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11ac80 B2	Temp./Humi.	:21.6/64
Test Frequency	:5290 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
61.04	Peak	47.39	-17.16	30.23	40.00	-9.77
138.64	Peak	41.00	-11.58	29.42	43.50	-14.08
217.21	Peak	39.87	-12.00	27.87	46.00	-18.13
296.75	Peak	40.48	-8.57	31.91	46.00	-14.09
516.94	Peak	40.61	-4.69	35.92	46.00	-10.08
905.91	Peak	30.49	0.94	31.43	46.00	-14.57

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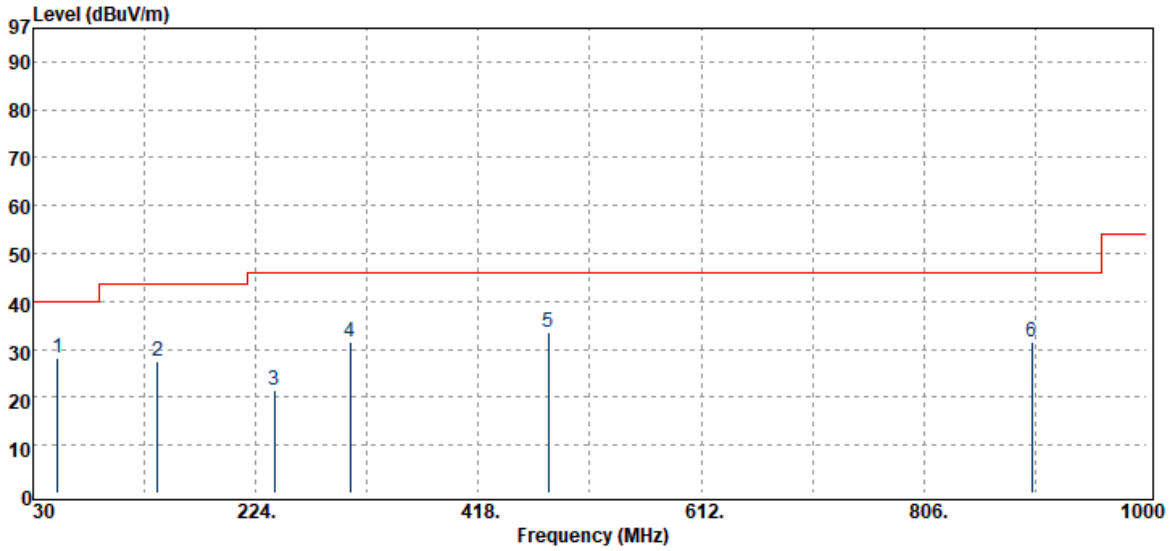
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11ac80 B3	Temp./Humi.	:21.6/64
Test Frequency	:5610 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



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	43.47	-15.28	28.19	40.00	-11.81
138.64	Peak	38.99	-11.58	27.41	43.50	-16.09
240.49	Peak	31.60	-10.12	21.48	46.00	-24.52
306.45	Peak	39.96	-8.34	31.62	46.00	-14.38
479.11	Peak	39.05	-5.37	33.68	46.00	-12.32
900.09	Peak	30.36	1.12	31.48	46.00	-14.52

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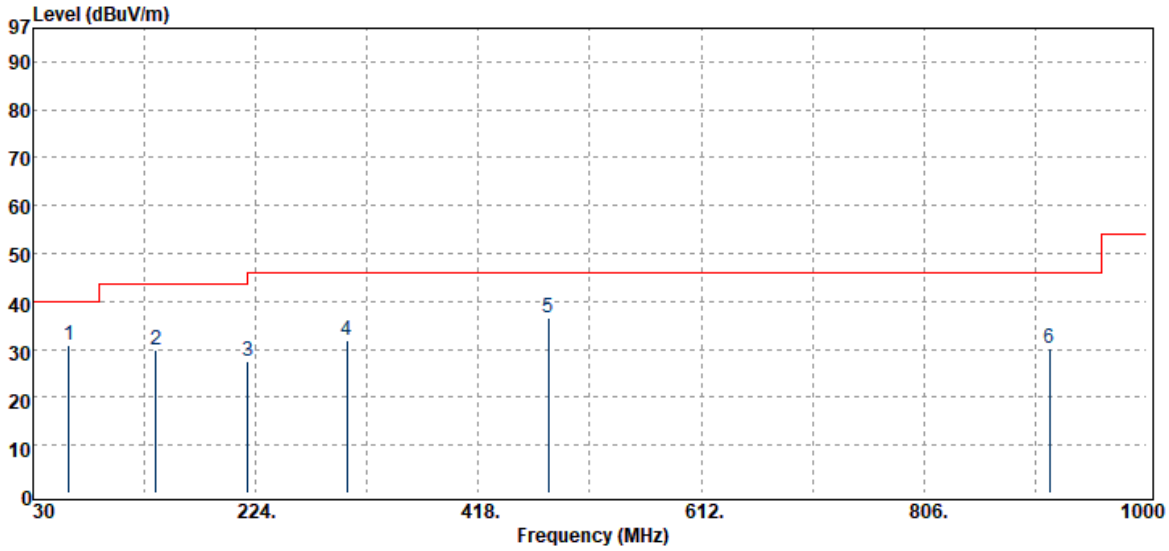
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11ac80 B3	Temp./Humi.	:21.6/64
Test Frequency	:5610 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	48.02	-17.16	30.86	40.00	-9.14
136.70	Peak	41.52	-11.48	30.04	43.50	-13.46
217.21	Peak	39.65	-12.00	27.65	46.00	-18.35
303.54	Peak	40.17	-8.43	31.74	46.00	-14.26
479.11	Peak	41.88	-5.37	36.51	46.00	-9.49
915.61	Peak	29.52	0.74	30.26	46.00	-15.74

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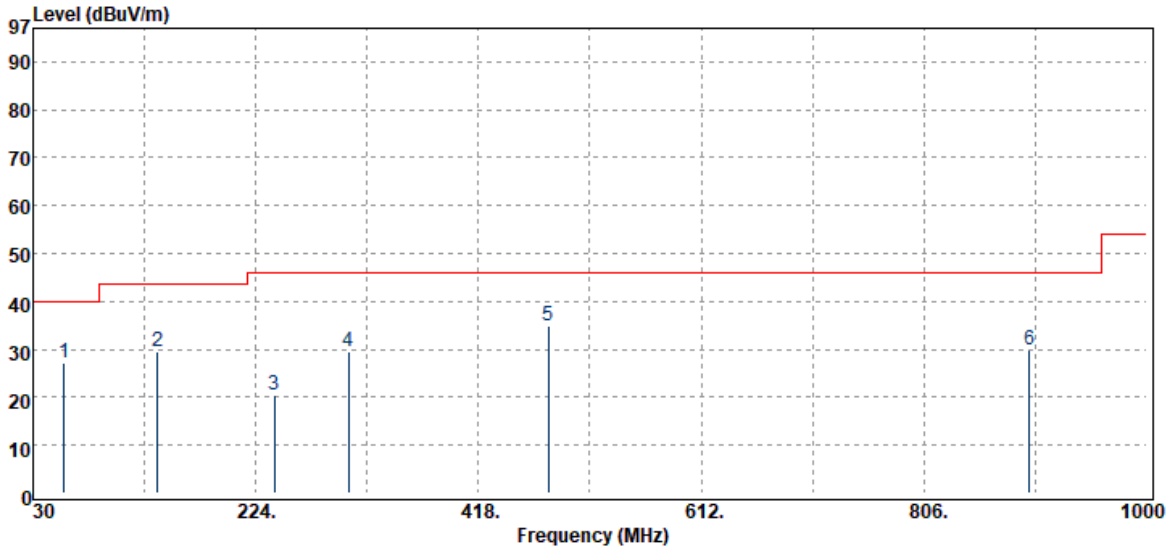
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11ac80 B4	Temp./Humi.	:21.6/64
Test Frequency	:5775 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
57.16	Peak	43.93	-16.69	27.24	40.00	-12.76
138.64	Peak	41.19	-11.58	29.61	43.50	-13.89
240.49	Peak	30.73	-10.12	20.61	46.00	-25.39
304.51	Peak	38.01	-8.41	29.60	46.00	-16.40
479.11	Peak	40.42	-5.37	35.05	46.00	-10.95
898.15	Peak	28.67	1.14	29.81	46.00	-16.19

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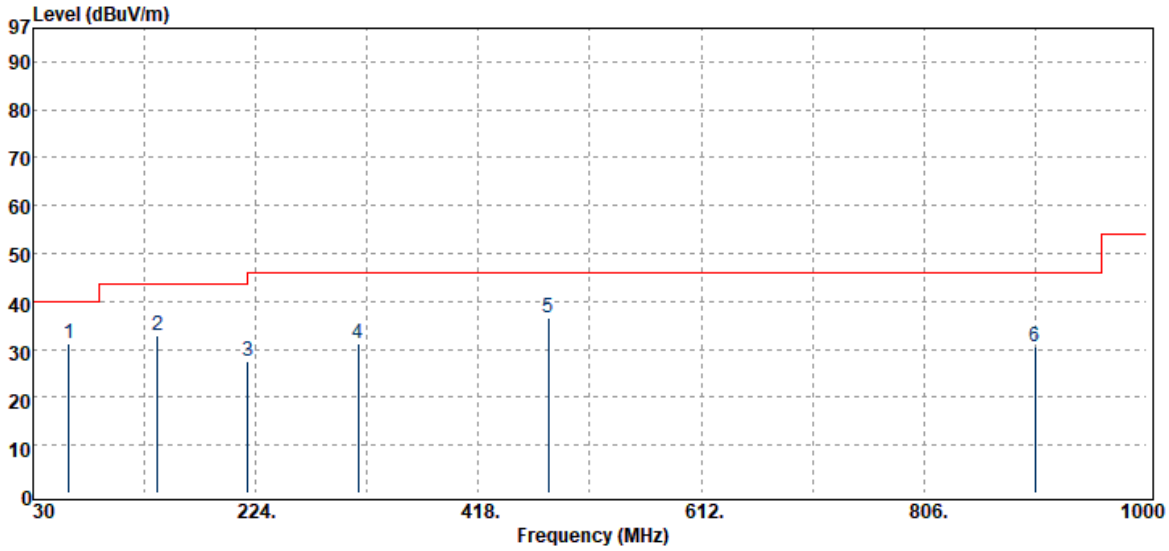
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11ac80 B4	Temp./Humi.	:21.6/64
Test Frequency	:5775 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	48.46	-17.16	31.30	40.00	-8.70
138.64	Peak	44.45	-11.58	32.87	43.50	-10.63
217.21	Peak	39.61	-12.00	27.61	46.00	-18.39
313.24	Peak	39.08	-8.02	31.06	46.00	-14.94
479.11	Peak	41.93	-5.37	36.56	46.00	-9.44
903.00	Peak	29.40	1.02	30.42	46.00	-15.58

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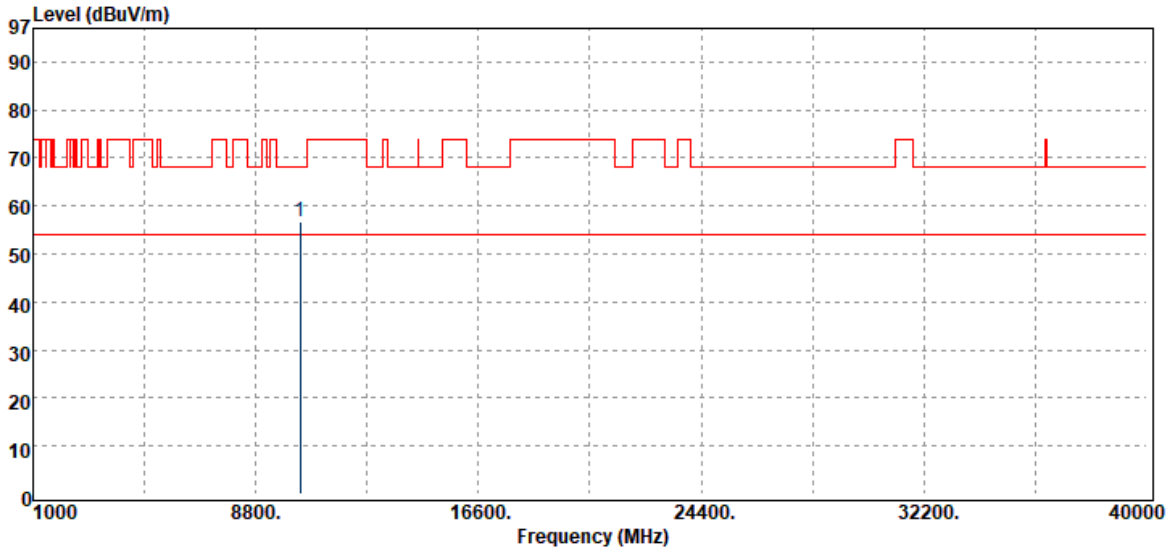
11.7.2 Above 1GHz Worst-Case Data:

Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B1	Temp./Humi.	:21.6/64
Test Frequency	:5180 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	30.31	26.38	56.69	68.20	-11.51

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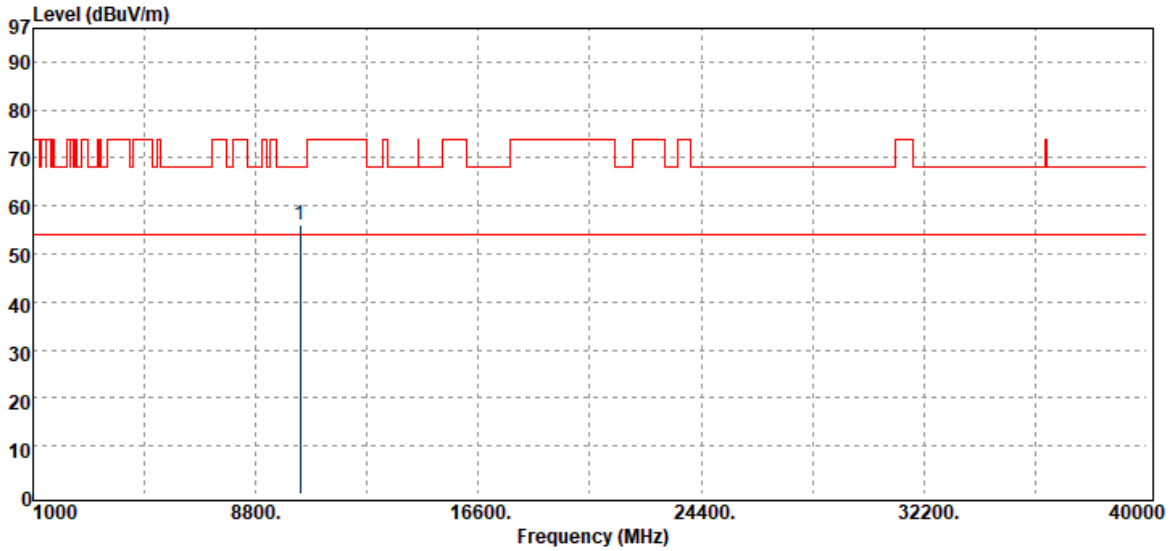
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B1	Temp./Humi.	:21.6/64
Test Frequency	:5180 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	Peak	29.75	26.38	56.13	68.20	-12.07

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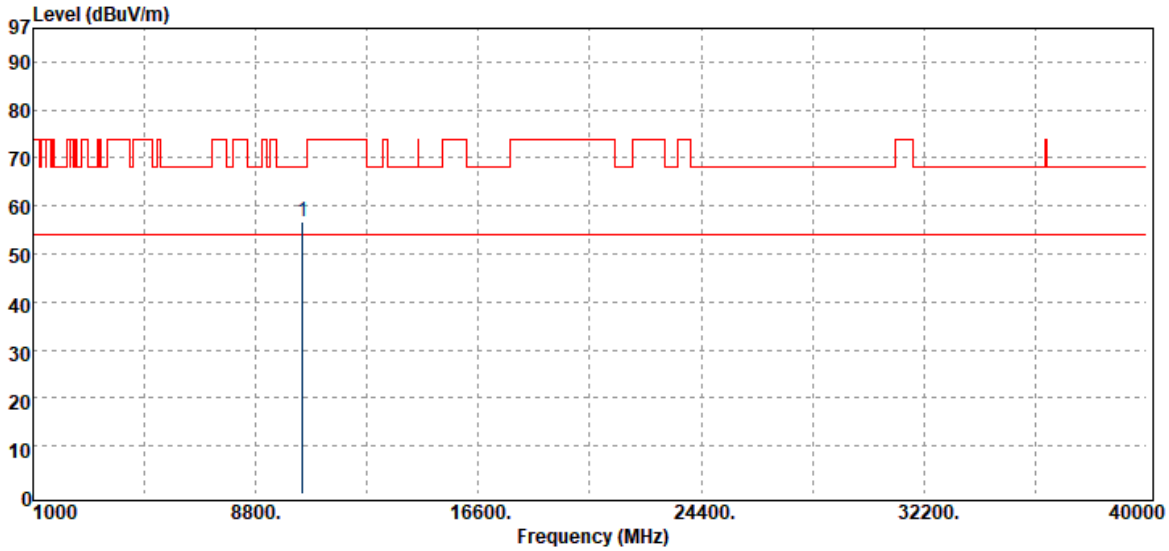
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B1	Temp./Humi.	:21.6/64
Test Frequency	:5220 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	Peak	30.00	26.76	56.76	68.20	-11.44

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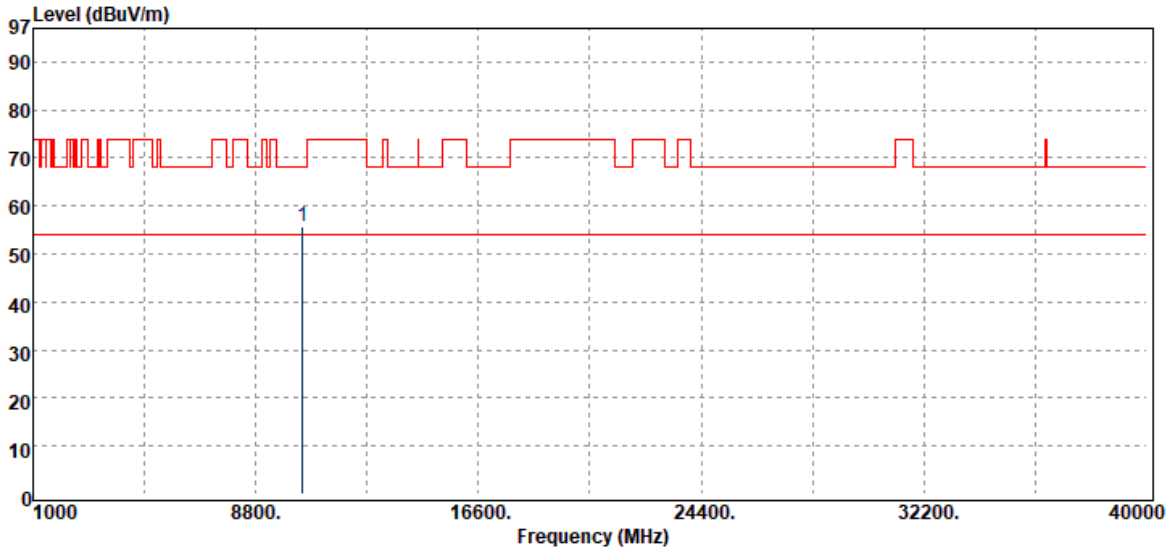
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B1	Temp./Humi.	:21.6/64
Test Frequency	:5220 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	Peak	29.09	26.76	55.85	68.20	-12.35

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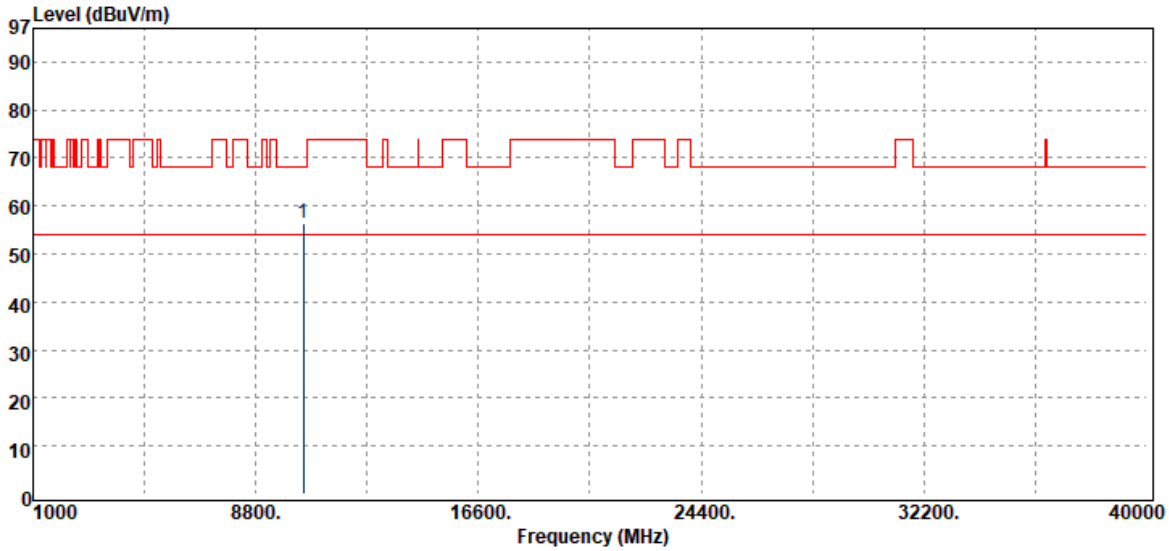
Report Number	:ER/2020/20061	Test Date	:2020-04-07
Operation Mode	:802.11a B1	Temp./Humi.	:21.3/64
Test Frequency	:5240 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	Peak	30.06	26.40	56.46	68.20	-11.74

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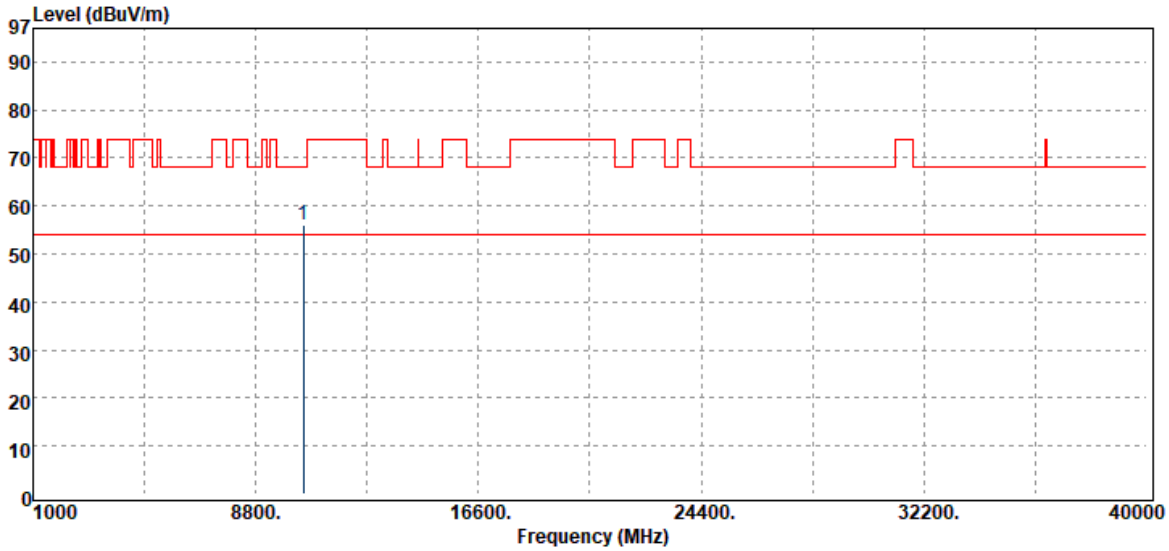
Report Number	:ER/2020/20061	Test Date	:2020-04-07
Operation Mode	:802.11a B1	Temp./Humi.	:21.3/64
Test Frequency	:5240 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	Peak	29.66	26.40	56.06	68.20	-12.14

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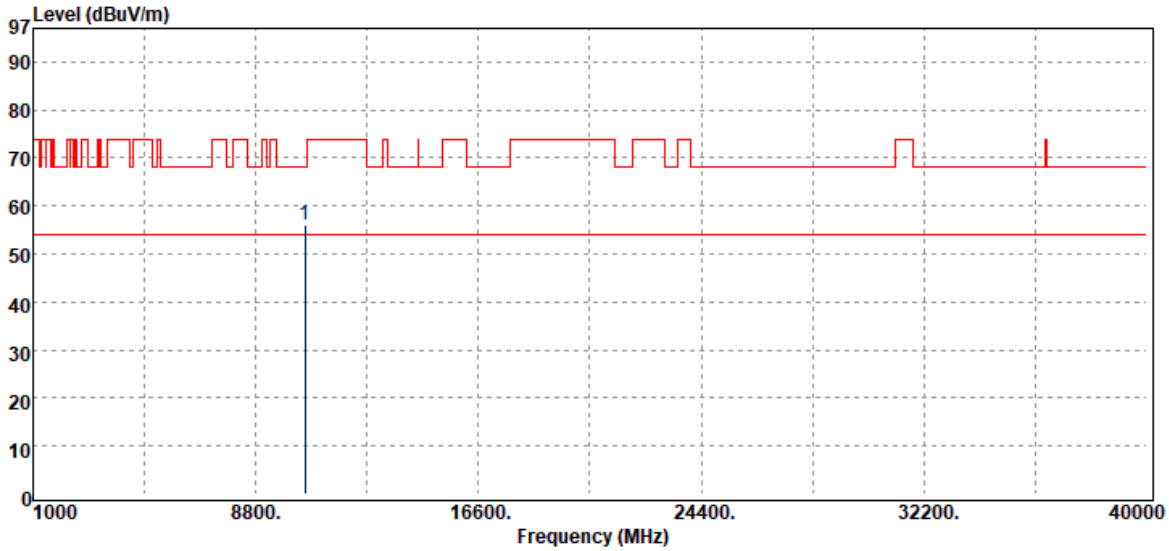
Report Number	:ER/2020/20061	Test Date	:2020-04-07
Operation Mode	:802.11a B2	Temp./Humi.	:21.3/64
Test Frequency	:5260 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	Peak	29.79	26.32	56.11	68.20	-12.09

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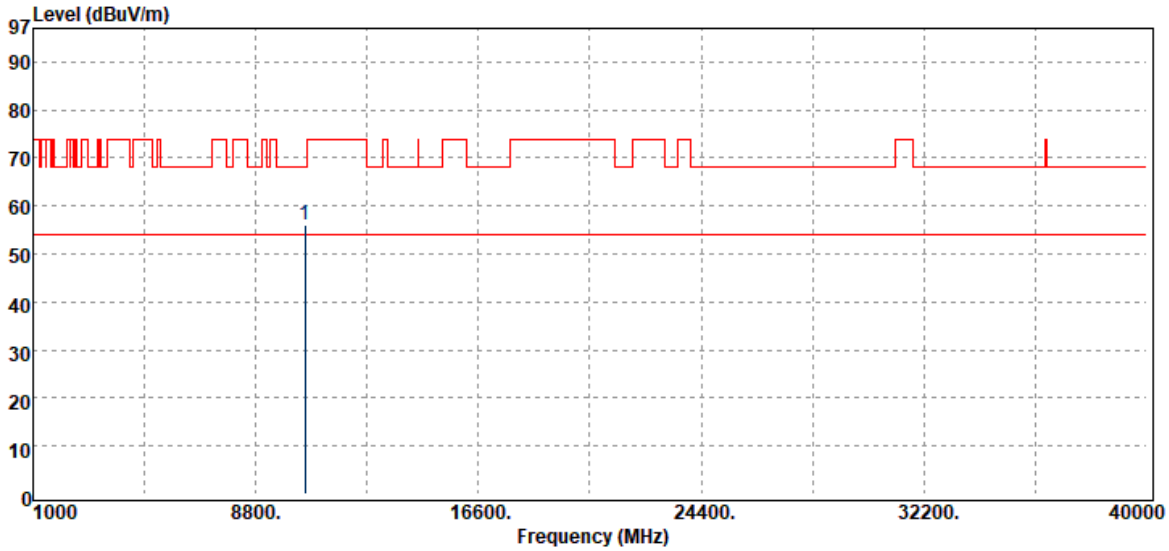
Report Number	:ER/2020/20061	Test Date	:2020-04-07
Operation Mode	:802.11a B2	Temp./Humi.	:21.3/64
Test Frequency	:5260 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	Peak	29.67	26.32	55.99	68.20	-12.21

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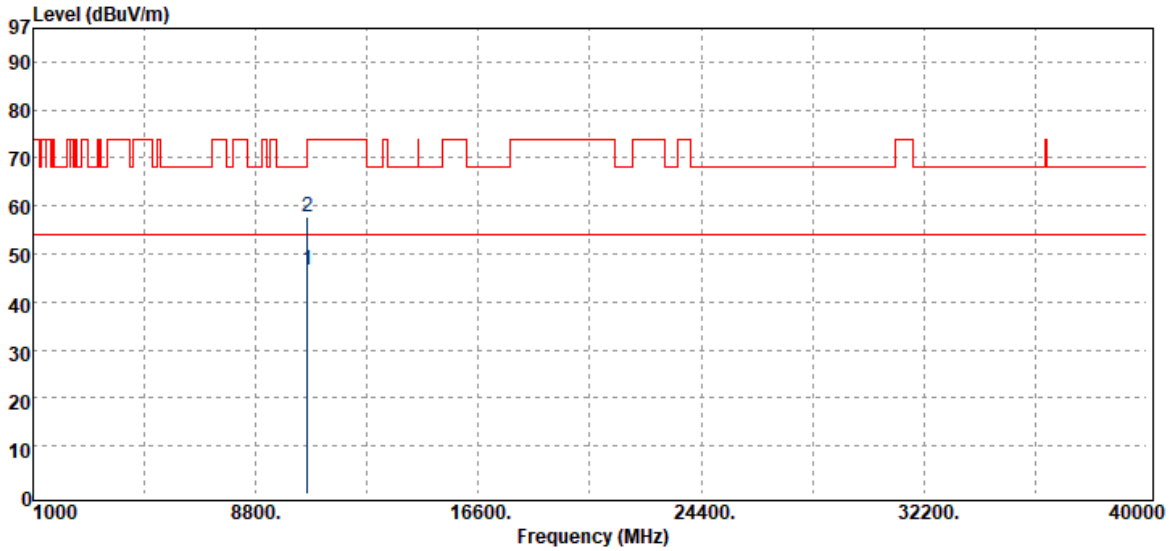
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B2	Temp./Humi.	:21.6/64
Test Frequency	:5300 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	19.72	26.78	46.50	54.00	-7.50
10600.00	Peak	30.93	26.78	57.71	74.00	-16.29

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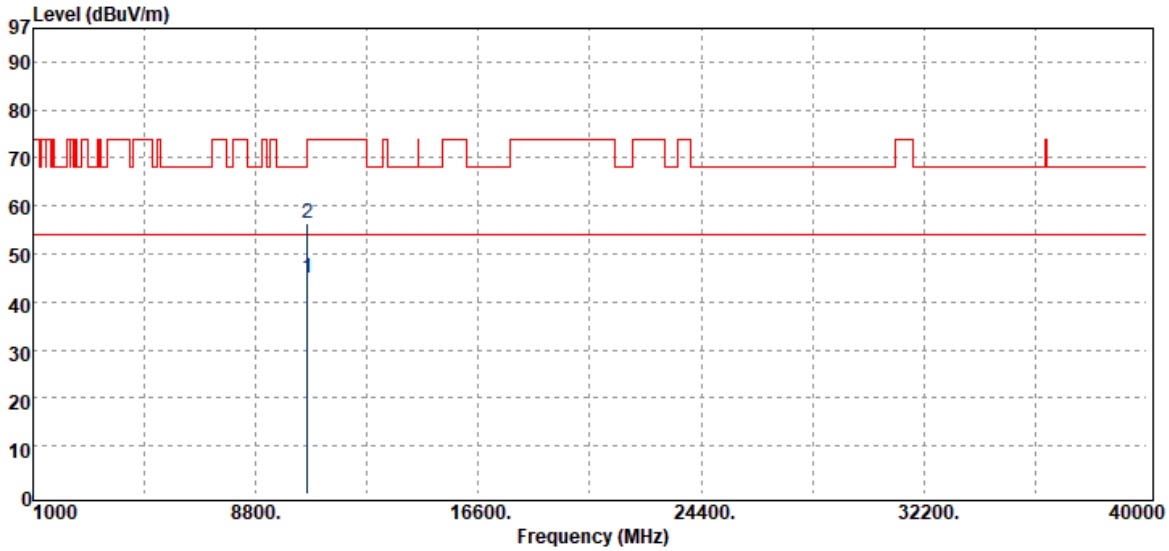
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B2	Temp./Humi.	:21.6/64
Test Frequency	:5300 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



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	18.32	26.78	45.10	54.00	-8.90
10600.00	Peak	29.76	26.78	56.54	74.00	-17.46

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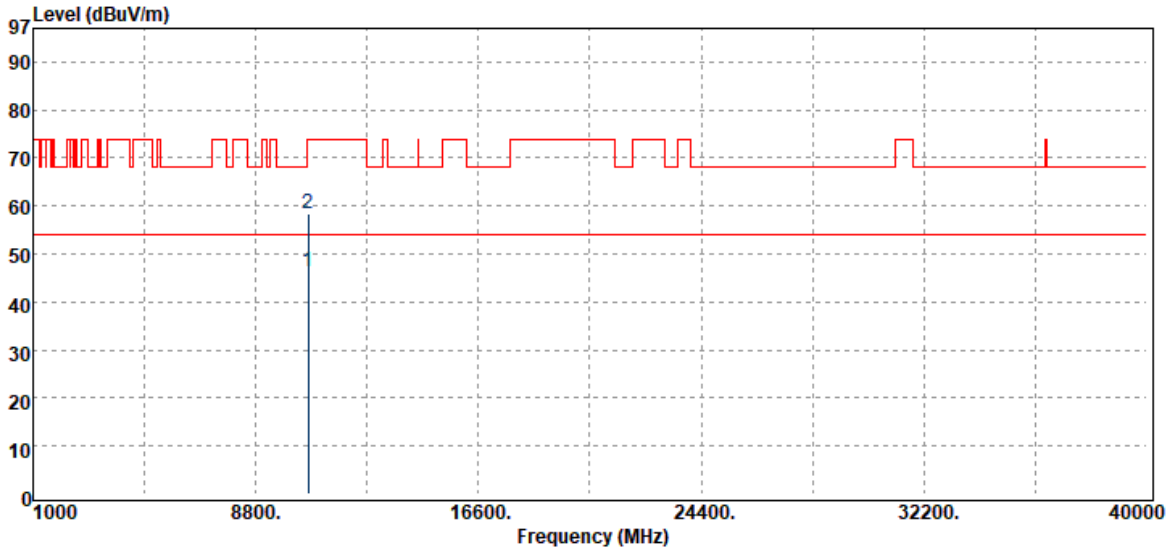
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B2	Temp./Humi.	:21.6/64
Test Frequency	:5320 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	Average	19.73	26.51	46.24	54.00	-7.76
10640.00	Peak	31.87	26.51	58.38	74.00	-15.62

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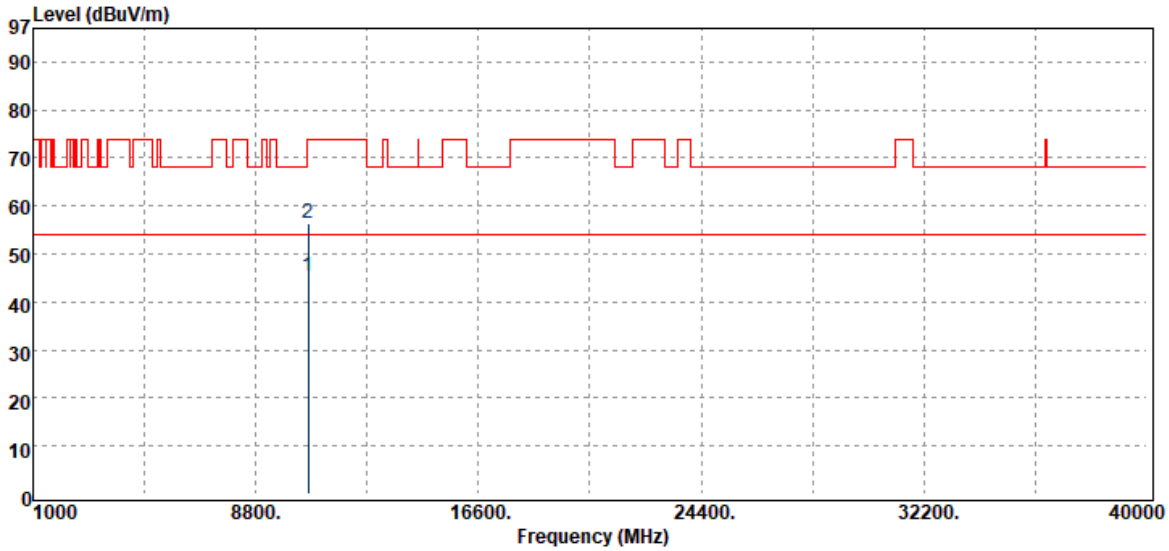
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B2	Temp./Humi.	:21.6/64
Test Frequency	:5320 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	18.73	26.51	45.24	54.00	-8.76
10640.00	Peak	30.01	26.51	56.52	74.00	-17.48

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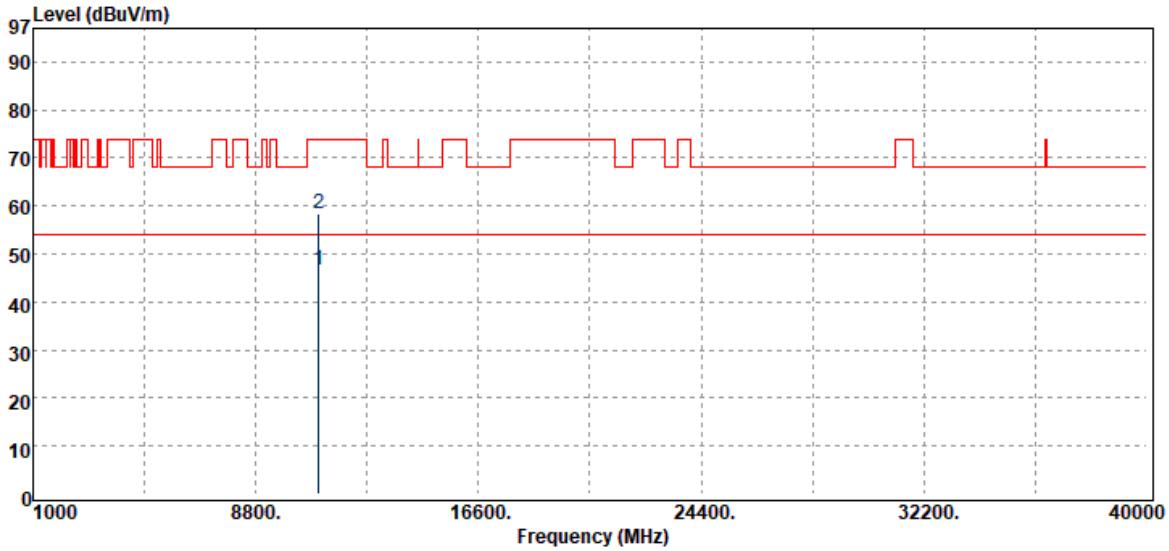
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B3	Temp./Humi.	:21.6/64
Test Frequency	:5500 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	Average	19.44	27.32	46.76	54.00	-7.24
11000.00	Peak	30.95	27.32	58.27	74.00	-15.73

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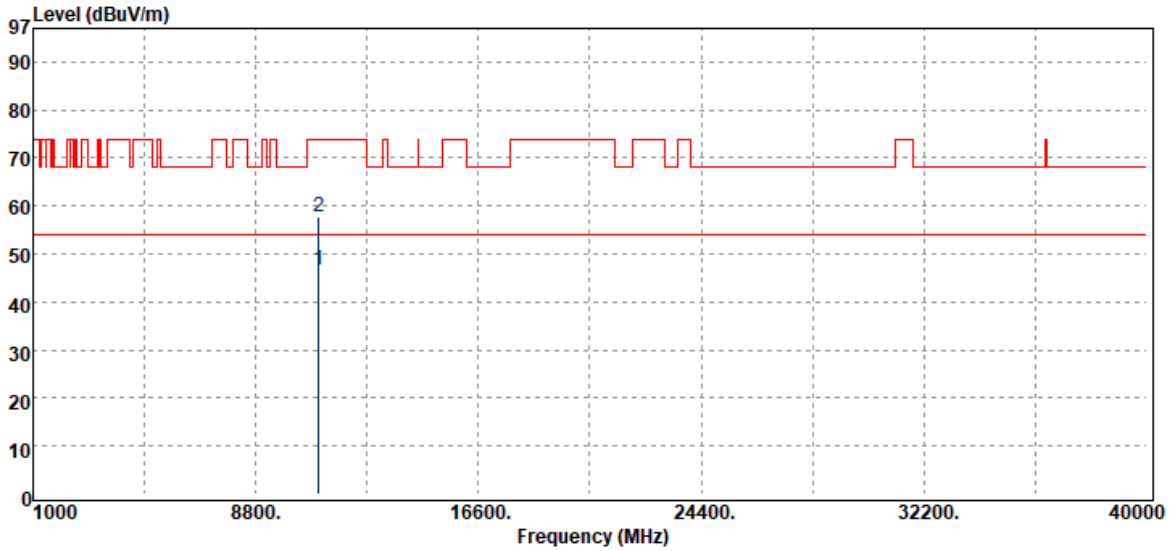
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B3	Temp./Humi.	:21.6/64
Test Frequency	:5500 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	Average	19.17	27.32	46.49	54.00	-7.51
11000.00	Peak	30.47	27.32	57.79	74.00	-16.21

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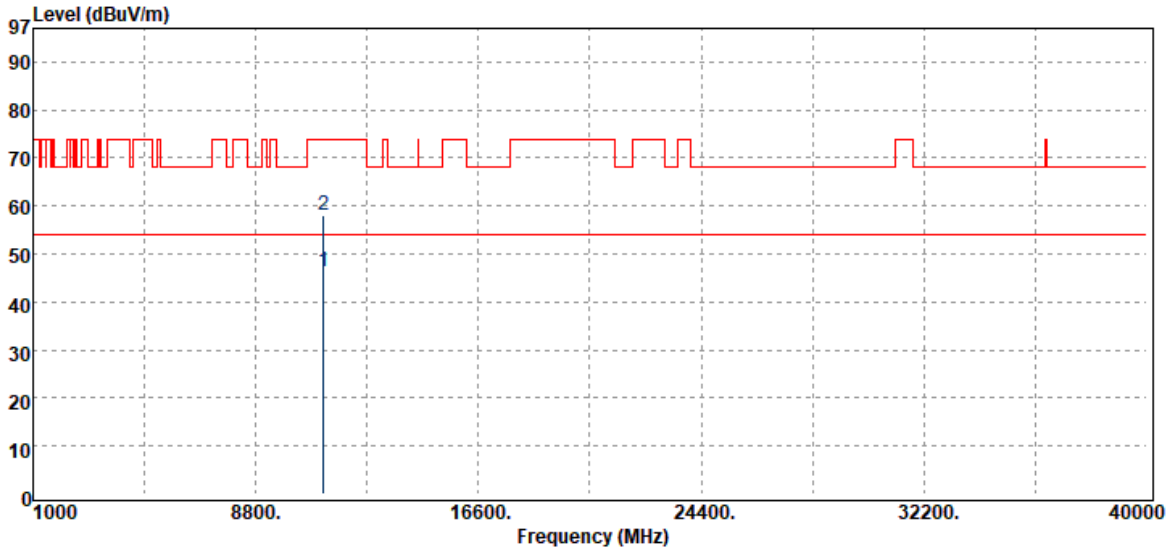
Report Number	:ER/2020/20061	Test Date	:2020-04-07
Operation Mode	:802.11a B3	Temp./Humi.	:21.3/64
Test Frequency	:5580 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.00	Average	19.28	26.98	46.26	54.00	-7.74
11160.00	Peak	31.11	26.98	58.09	74.00	-15.91

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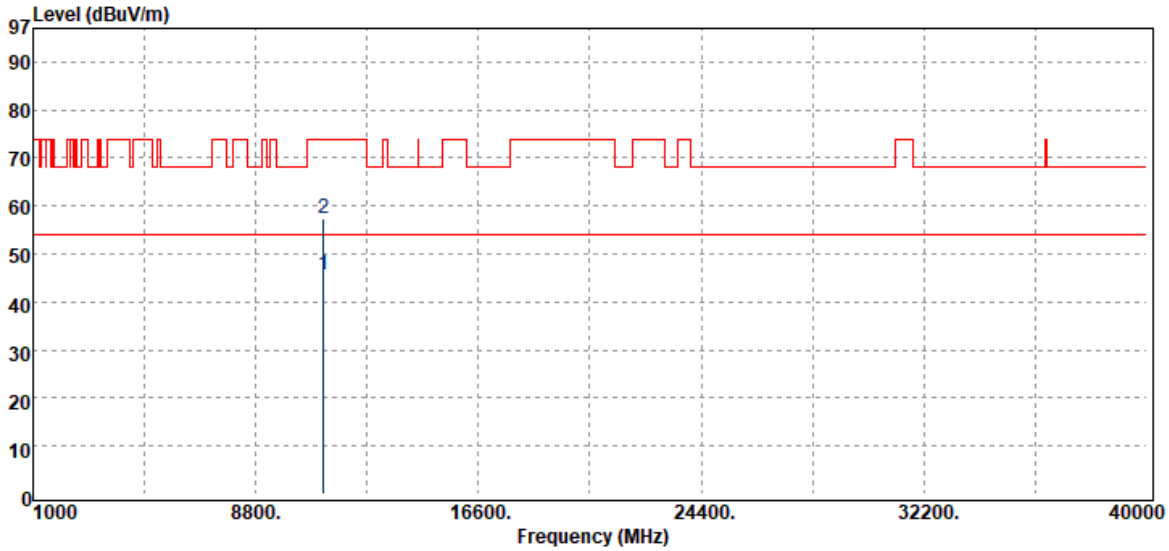
Report Number	:ER/2020/20061	Test Date	:2020-04-07
Operation Mode	:802.11a B3	Temp./Humi.	:21.3/64
Test Frequency	:5580 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



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	18.70	26.98	45.68	54.00	-8.32
11160.00	Peak	30.28	26.98	57.26	74.00	-16.74

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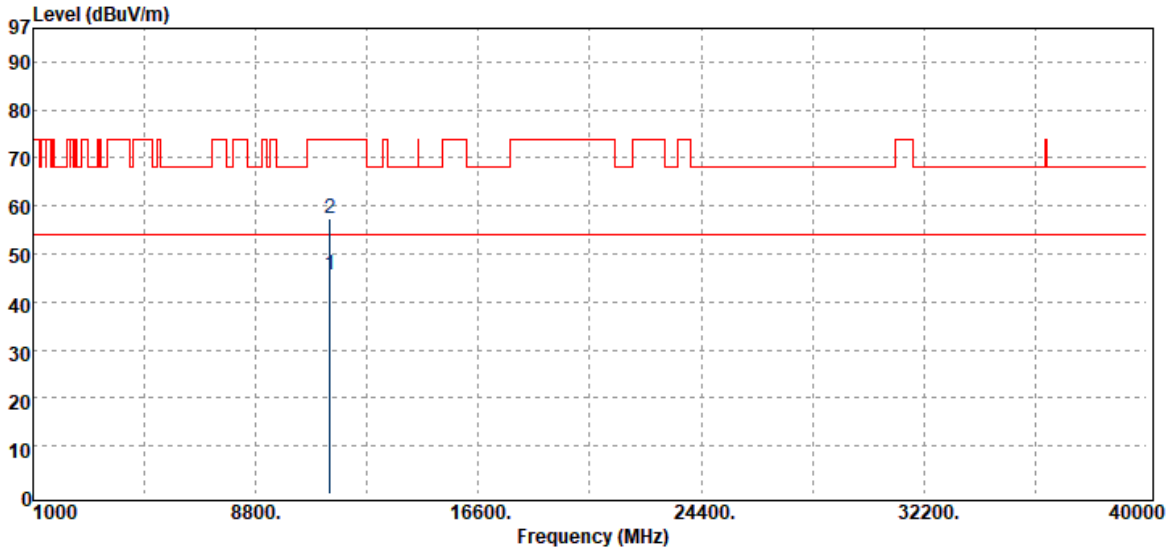
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B3	Temp./Humi.	:21.6/64
Test Frequency	:5700 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	17.95	27.54	45.49	54.00	-8.51
11400.00	Peak	29.98	27.54	57.52	74.00	-16.48

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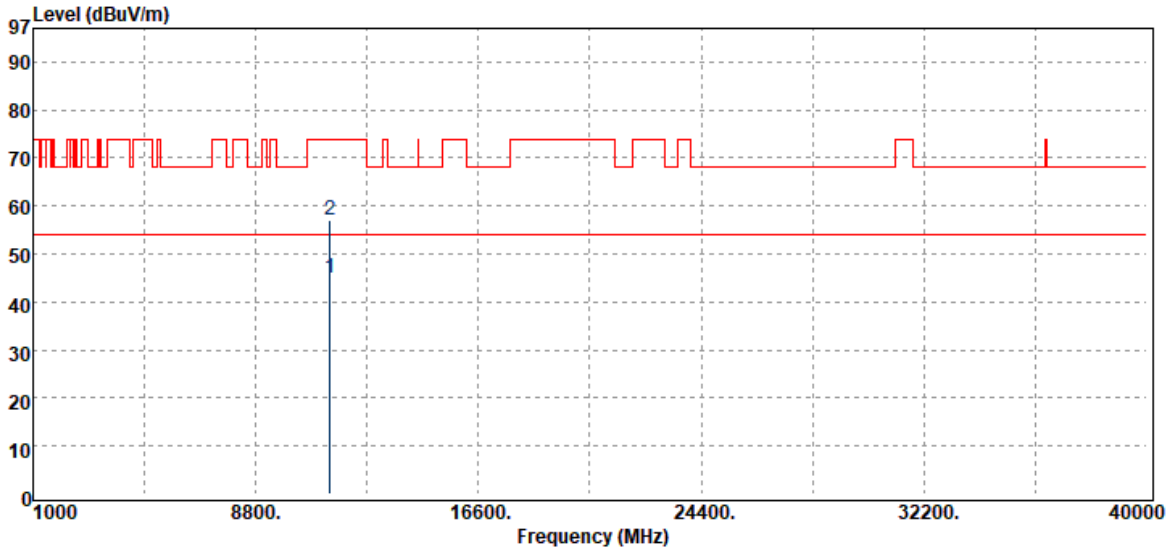
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B3	Temp./Humi.	:21.6/64
Test Frequency	:5700 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	17.57	27.54	45.11	54.00	-8.89
11400.00	Peak	29.59	27.54	57.13	74.00	-16.87

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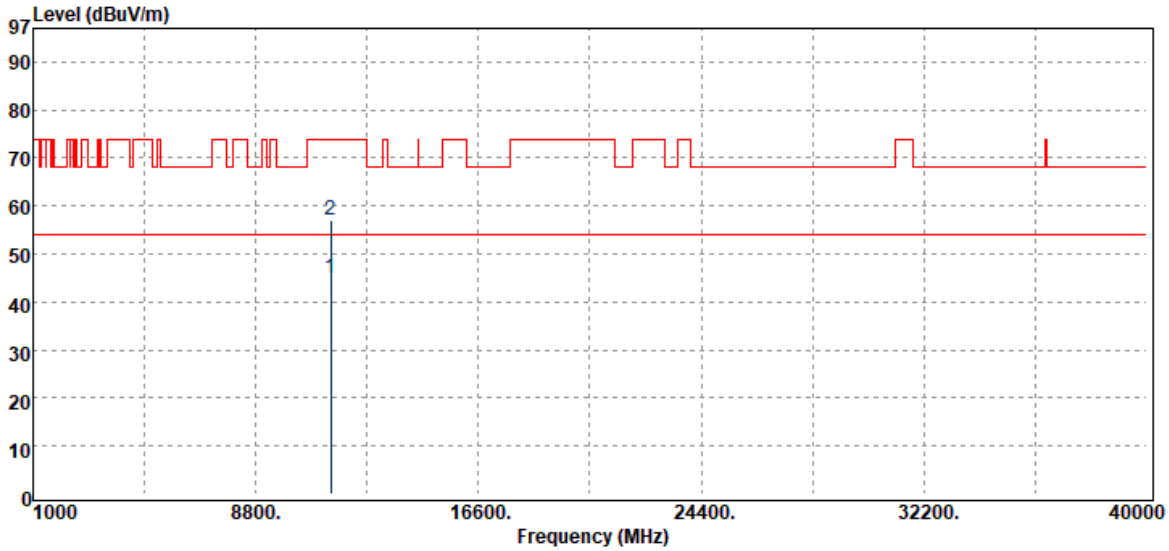
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B3-B4	Temp./Humi.	:21.6/64
Test Frequency	:5720 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	17.33	27.76	45.09	54.00	-8.91
11440.00	Peak	29.34	27.76	57.10	74.00	-16.90

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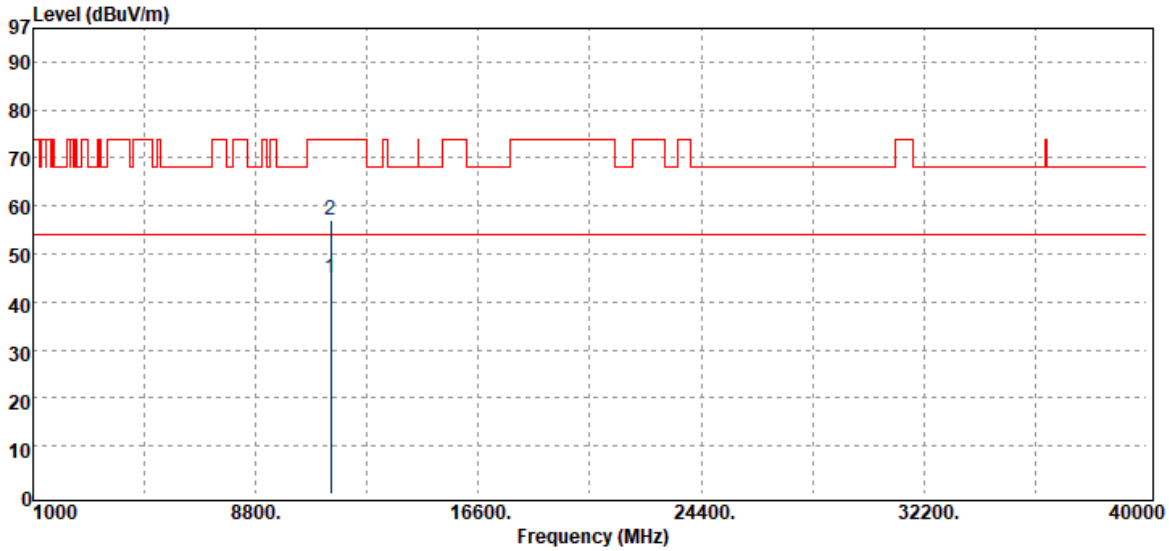
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B3-B4	Temp./Humi.	:21.6/64
Test Frequency	:5720 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	17.31	27.76	45.07	54.00	-8.93
11440.00	Peak	29.39	27.76	57.15	74.00	-16.85

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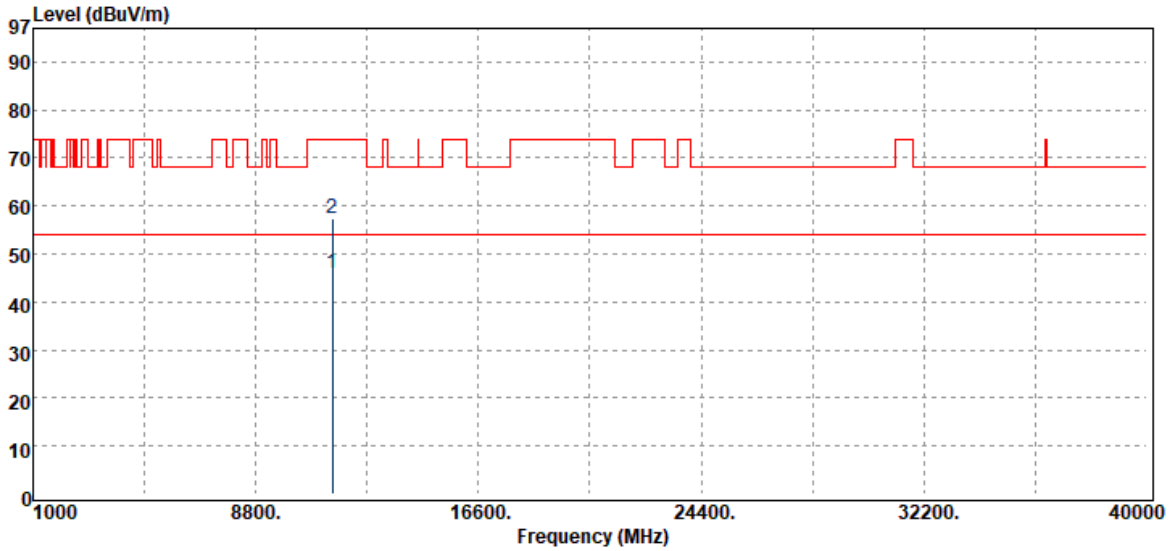
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B4	Temp./Humi.	:21.6/64
Test Frequency	:5745 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	Average	17.95	28.07	46.02	54.00	-7.98
11490.00	Peak	29.33	28.07	57.40	74.00	-16.60

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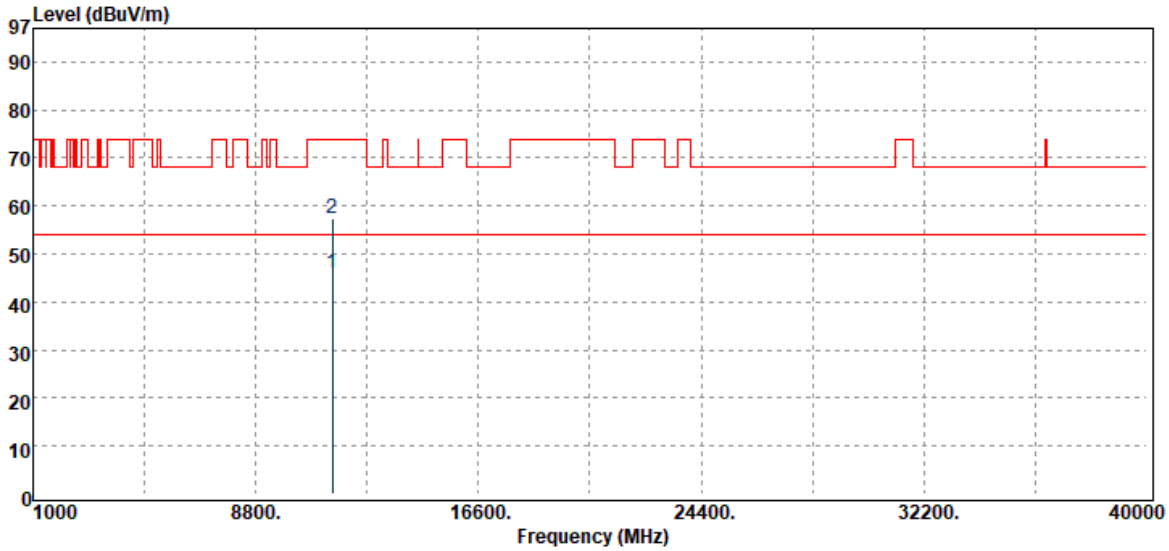
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B4	Temp./Humi.	:21.6/64
Test Frequency	:5745 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	17.98	28.07	46.05	54.00	-7.95
11490.00	Peak	29.42	28.07	57.49	74.00	-16.51

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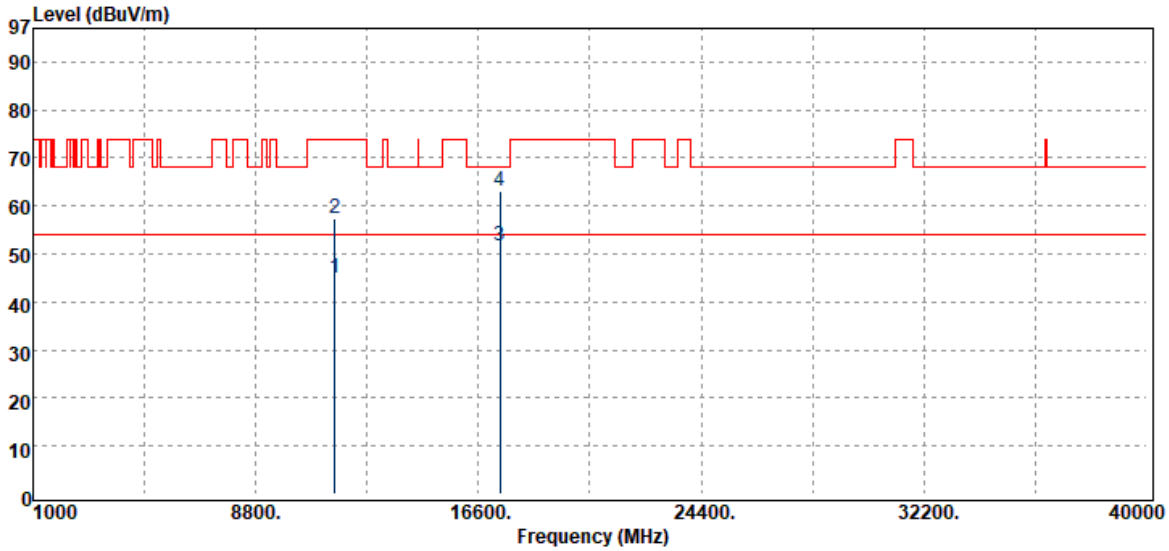
Report Number	:ER/2020/20061	Test Date	:2020-04-07
Operation Mode	:802.11a B4	Temp./Humi.	:21.3/64
Test Frequency	:5785 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	17.95	27.18	45.13	54.00	-8.87
11570.00	Peak	30.20	27.18	57.38	74.00	-16.62
17355.00	Average	19.77	31.89	51.66	54.00	-2.34
17355.00	Peak	31.26	31.89	63.15	68.20	-5.05

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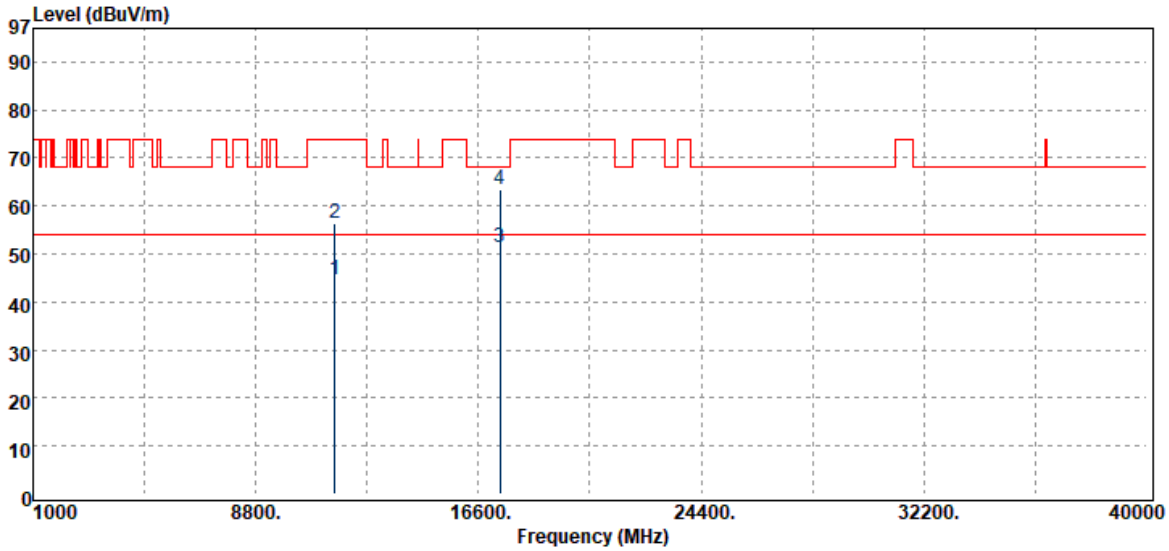
Report Number	:ER/2020/20061	Test Date	:2020-04-07
Operation Mode	:802.11a B4	Temp./Humi.	:21.3/64
Test Frequency	:5785 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	17.36	27.18	44.54	54.00	-9.46
11570.00	Peak	29.24	27.18	56.42	74.00	-17.58
17355.00	Average	19.50	31.89	51.39	54.00	-2.61
17355.00	Peak	31.43	31.89	63.32	68.20	-4.88

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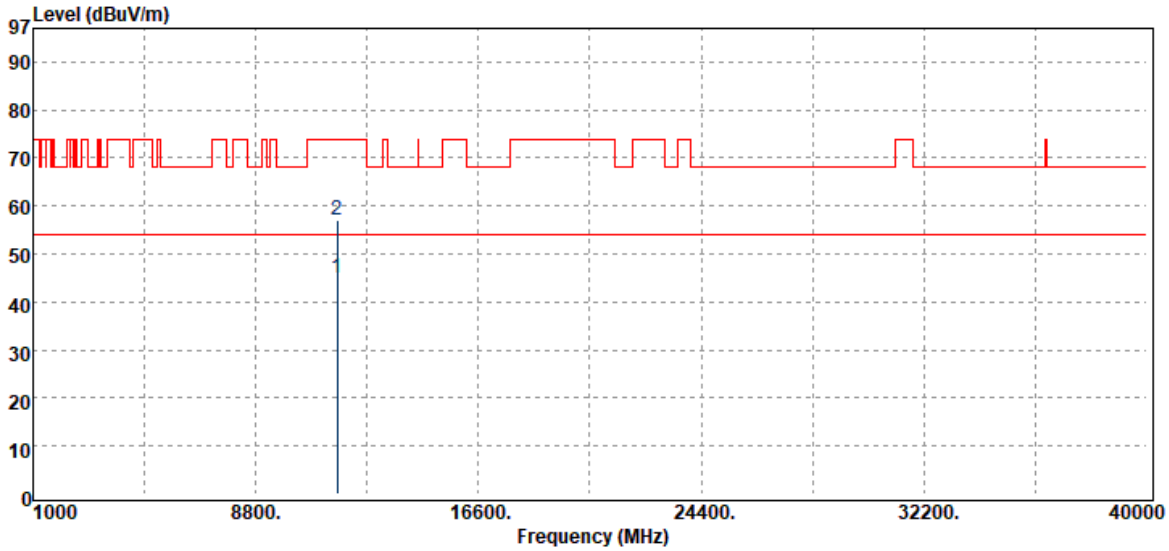
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B4	Temp./Humi.	:21.6/64
Test Frequency	:5825 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	17.42	27.69	45.11	54.00	-8.89
11650.00	Peak	29.24	27.69	56.93	74.00	-17.07

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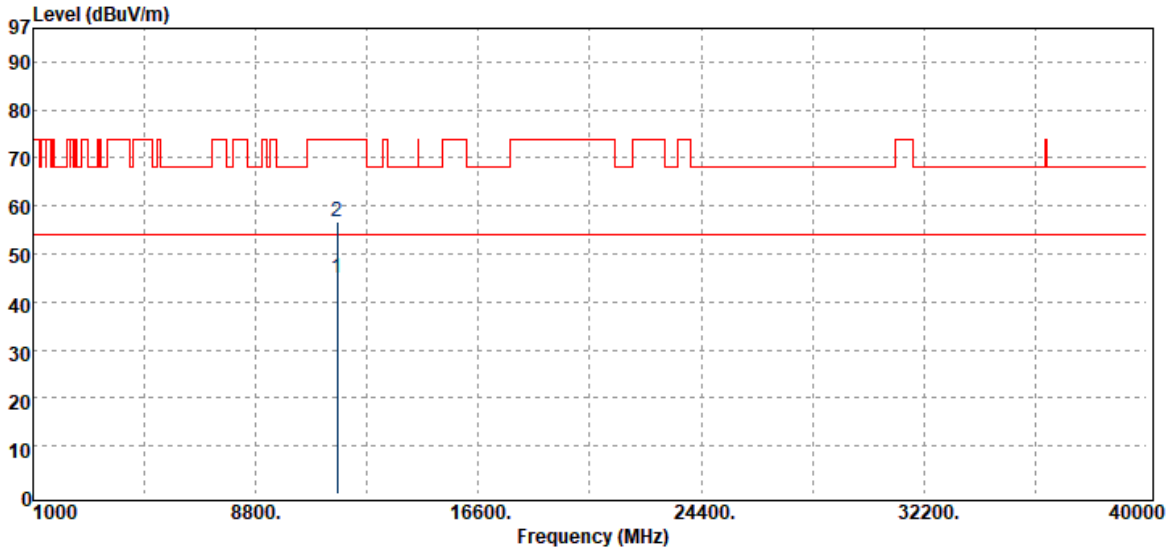
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11a B4	Temp./Humi.	:21.6/64
Test Frequency	:5825 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	17.38	27.69	45.07	54.00	-8.93
11650.00	Peak	29.15	27.69	56.84	74.00	-17.16

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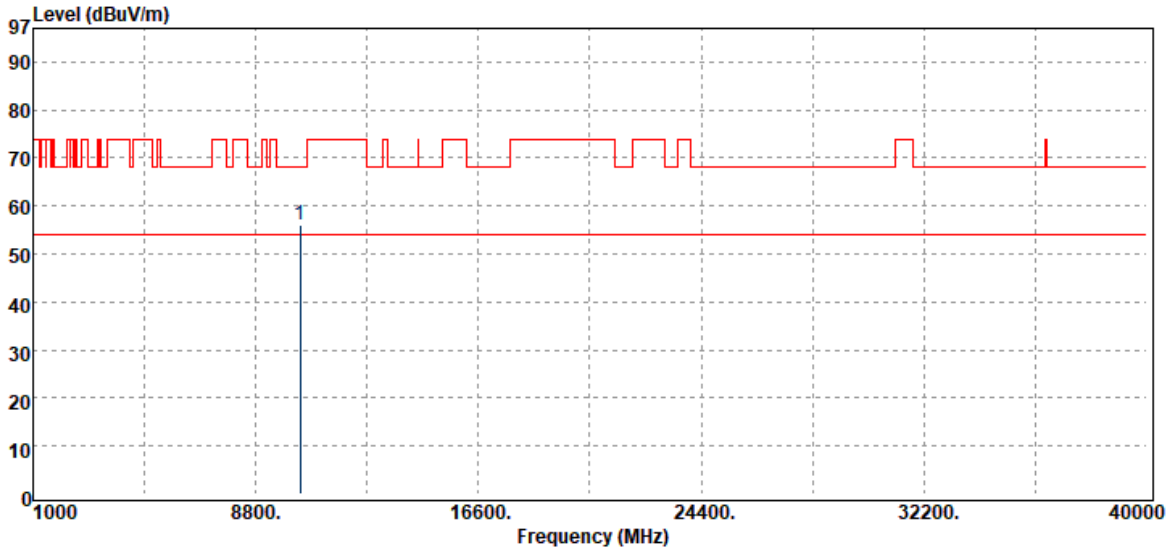
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11n20 B1	Temp./Humi.	:21.6/64
Test Frequency	:5180 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	Peak	29.82	26.38	56.20	68.20	-12.00

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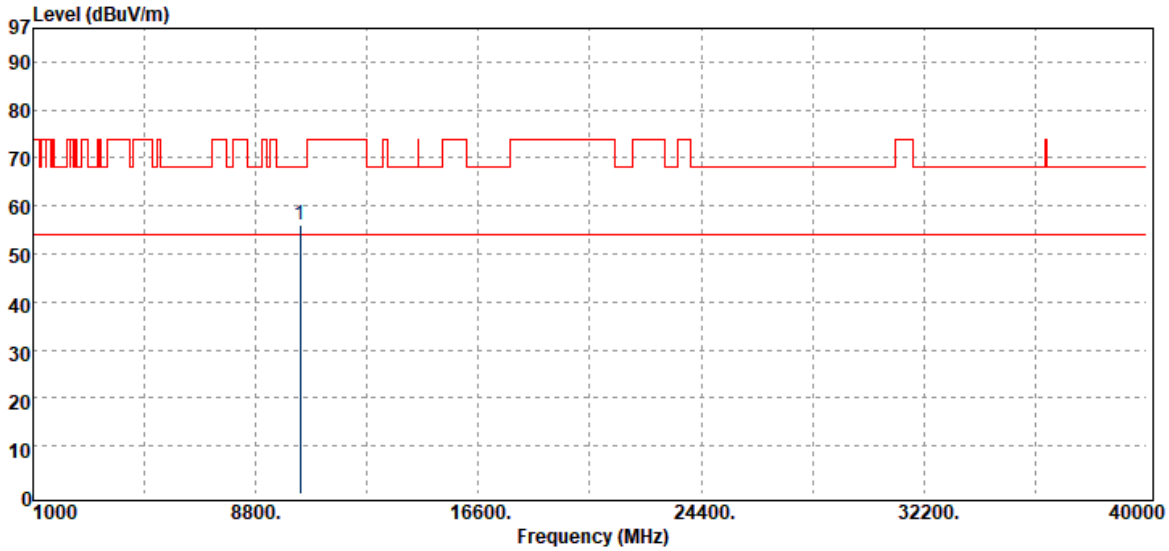
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11n20 B1	Temp./Humi.	:21.6/64
Test Frequency	:5180 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	Peak	29.56	26.38	55.94	68.20	-12.26

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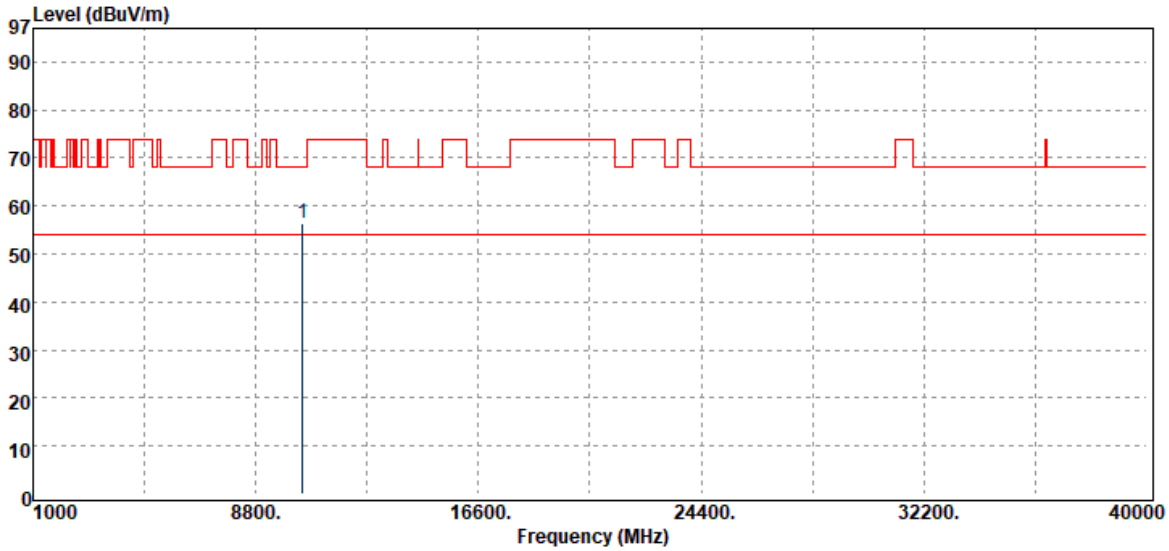
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11n20 B1	Temp./Humi.	:21.6/64
Test Frequency	:5220 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	Peak	29.52	26.76	56.28	68.20	-11.92

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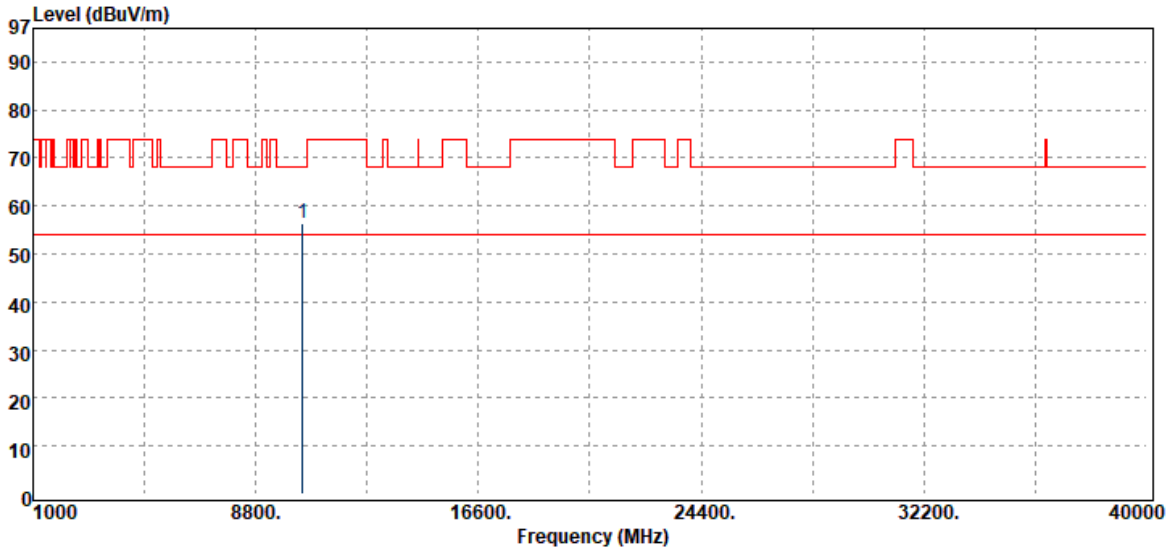
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11n20 B1	Temp./Humi.	:21.6/64
Test Frequency	:5220 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	Peak	29.46	26.76	56.22	68.20	-11.98

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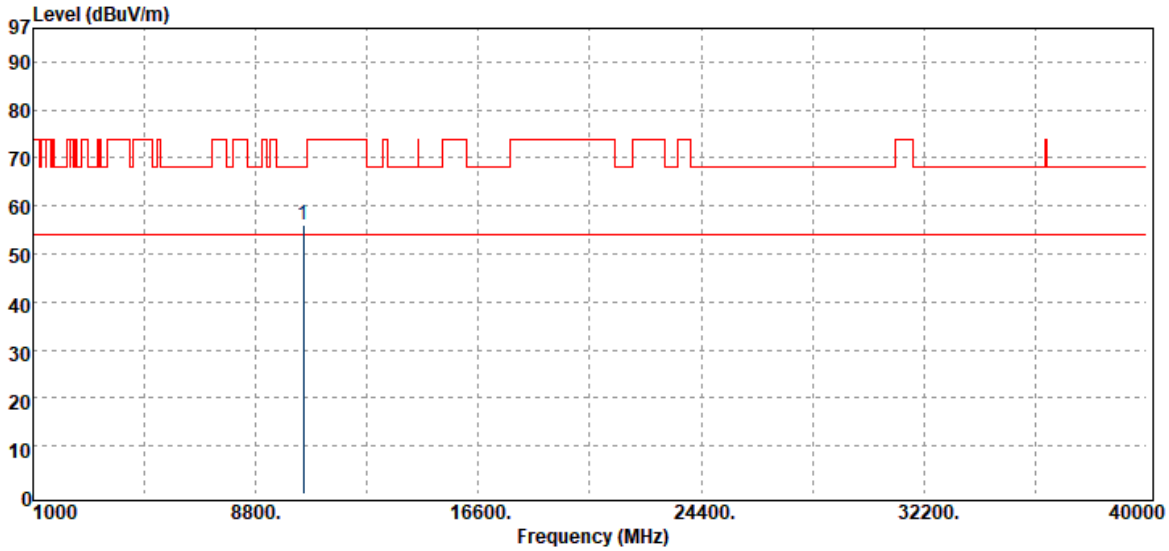
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11n20 B1	Temp./Humi.	:21.6/64
Test Frequency	:5240 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	Peak	29.69	26.40	56.09	68.20	-12.11

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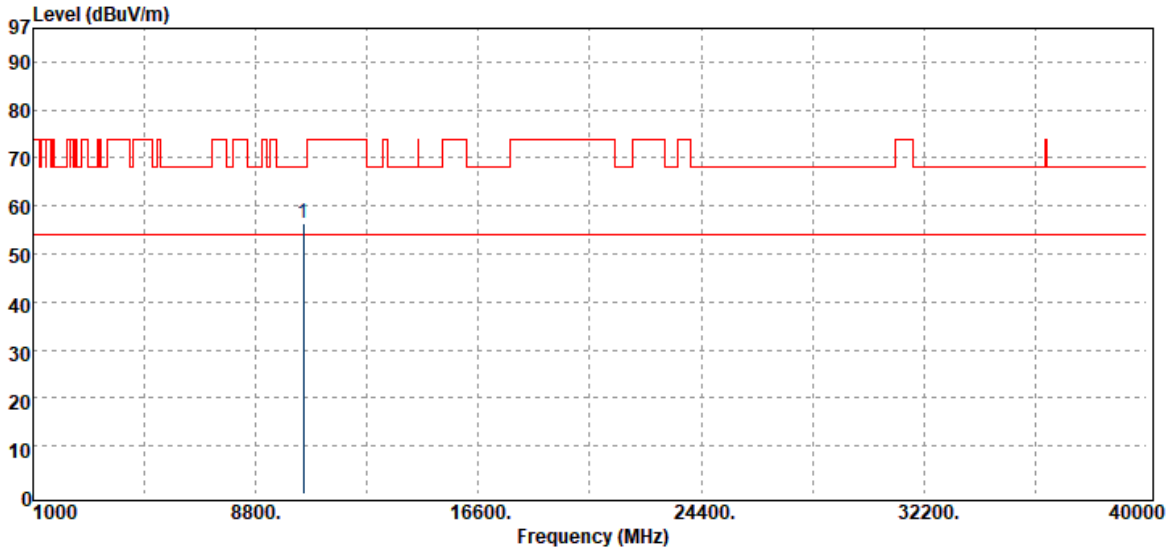
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11n20 B1	Temp./Humi.	:21.6/64
Test Frequency	:5240 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	Peak	29.92	26.40	56.32	68.20	-11.88

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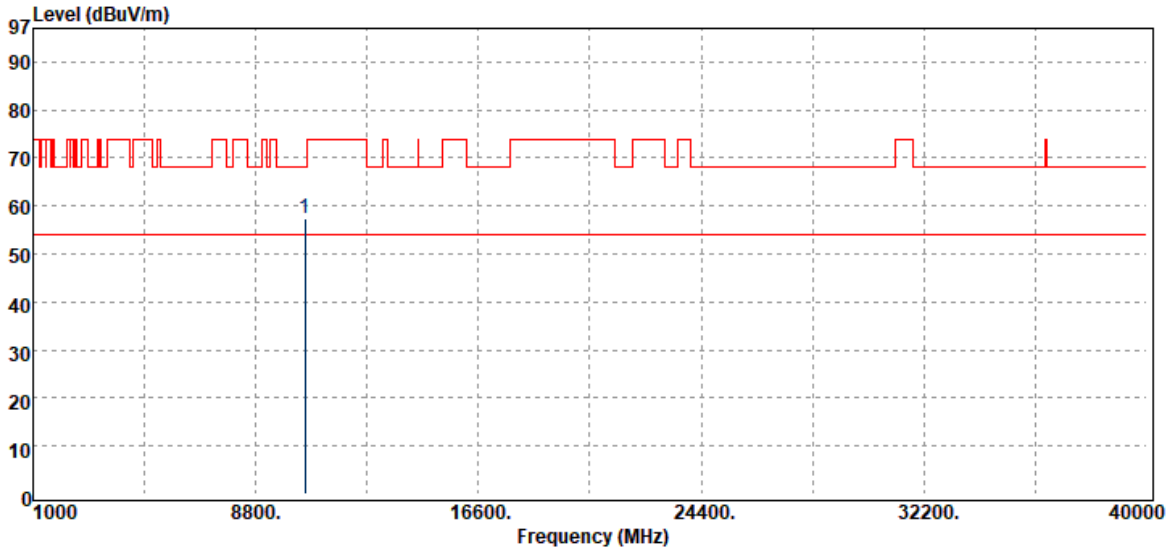
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11n20 B2	Temp./Humi.	:21.6/64
Test Frequency	:5260 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	Peak	30.93	26.32	57.25	68.20	-10.95

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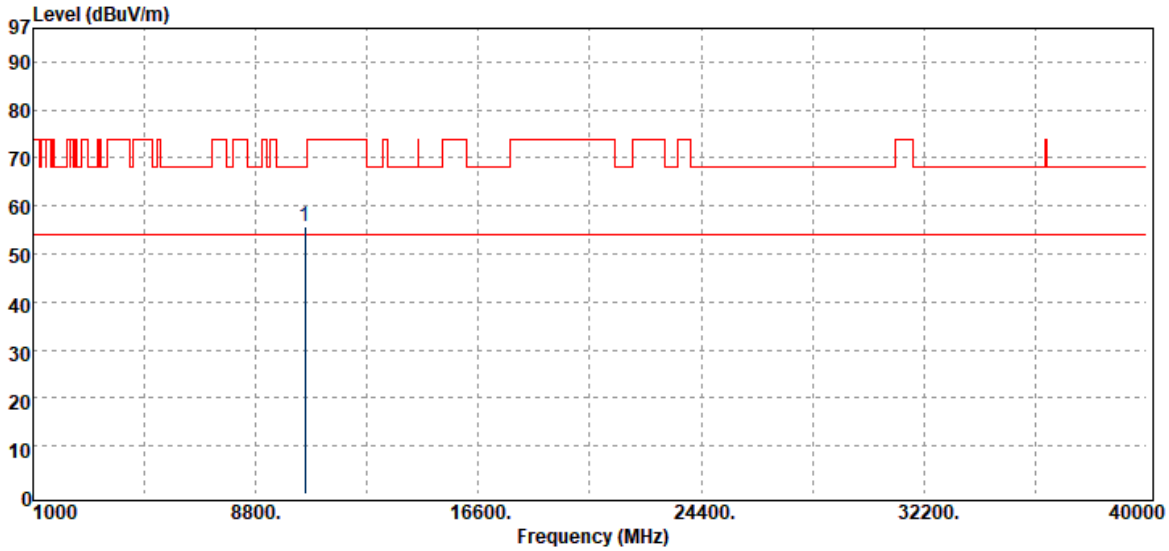
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11n20 B2	Temp./Humi.	:21.6/64
Test Frequency	:5260 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	Peak	29.24	26.32	55.56	68.20	-12.64

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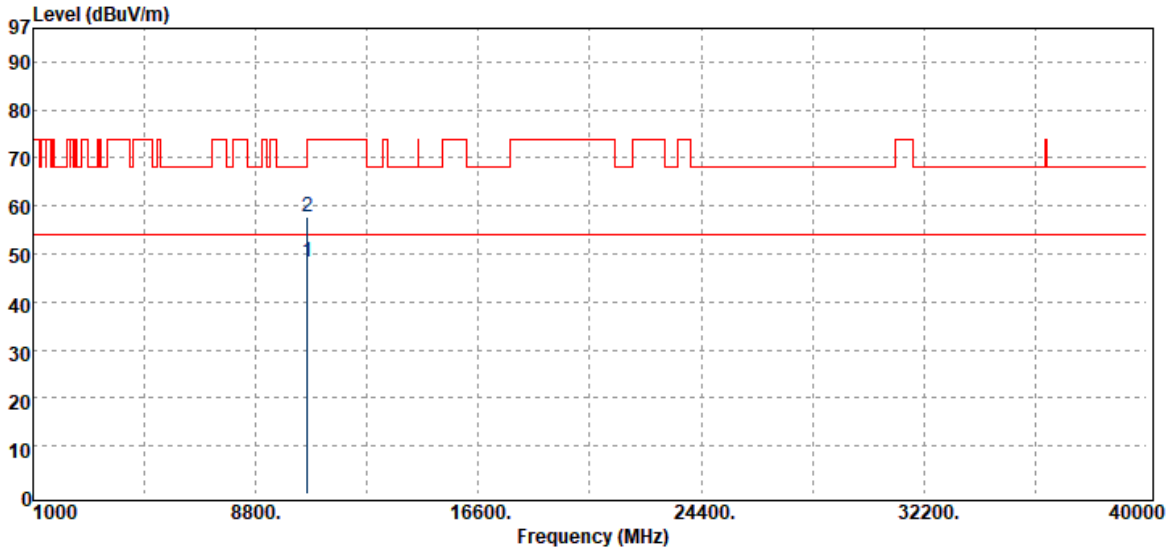
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11n20 B2	Temp./Humi.	:21.6/64
Test Frequency	:5300 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



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	21.48	26.78	48.26	54.00	-5.74
10600.00	Peak	30.91	26.78	57.69	74.00	-16.31

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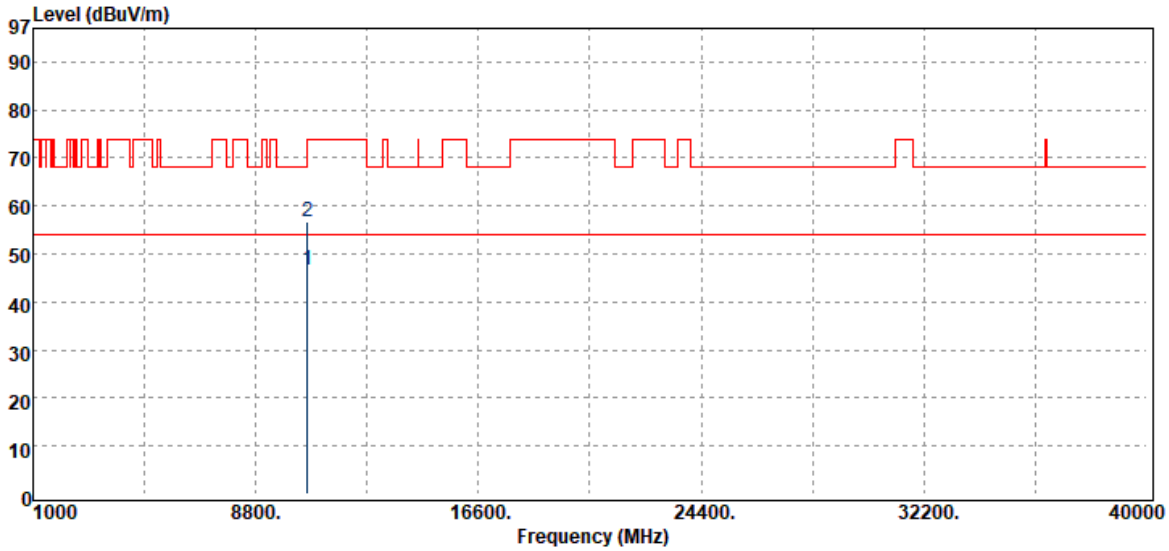
Report Number	:ER/2020/20061	Test Date	:2020-04-09
Operation Mode	:802.11n20 B2	Temp./Humi.	:21.6/64
Test Frequency	:5300 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10600.00	Average	19.89	26.78	46.67	54.00	-7.33
10600.00	Peak	29.84	26.78	56.62	74.00	-17.38

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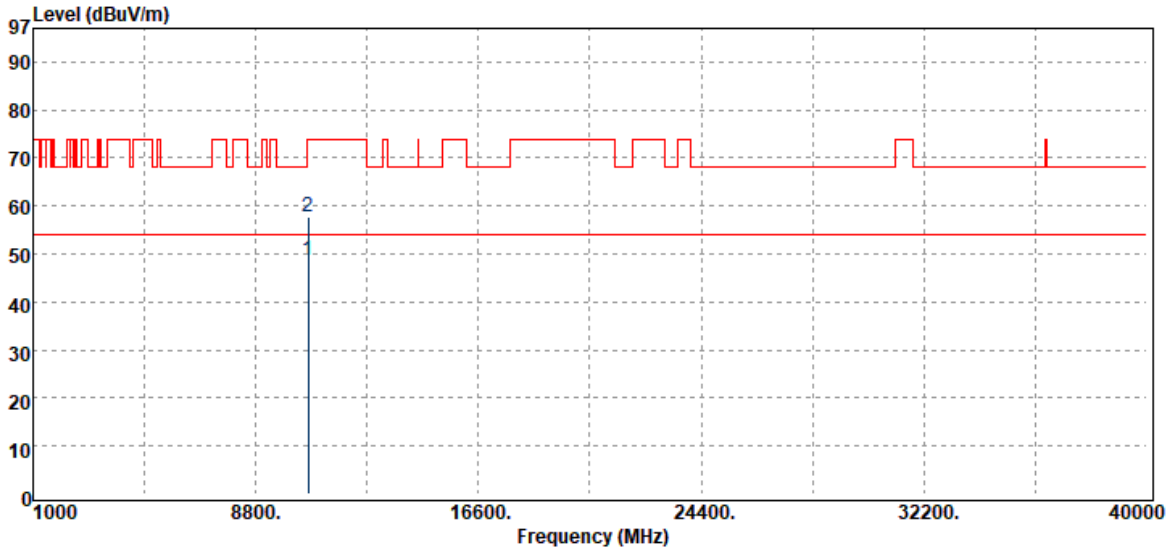
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n20 B2	Temp./Humi.	:21.6/67
Test Frequency	:5320 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	22.07	26.51	48.58	54.00	-5.42
10640.00	Peak	31.06	26.51	57.57	74.00	-16.43

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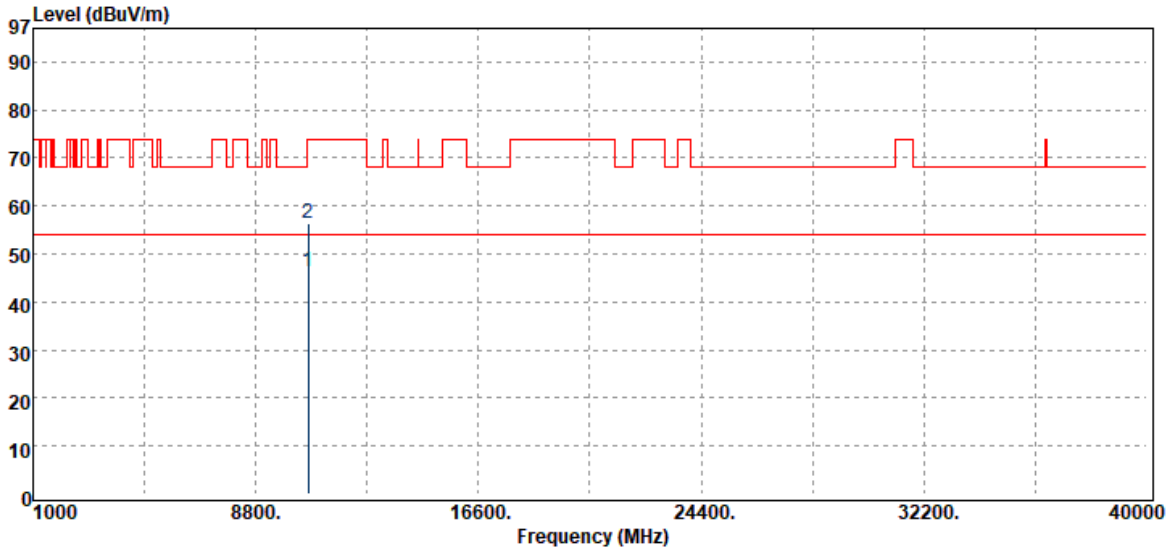
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n20 B2	Temp./Humi.	:21.6/67
Test Frequency	:5320 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	Average	19.89	26.51	46.40	54.00	-7.60
10640.00	Peak	29.98	26.51	56.49	74.00	-17.51

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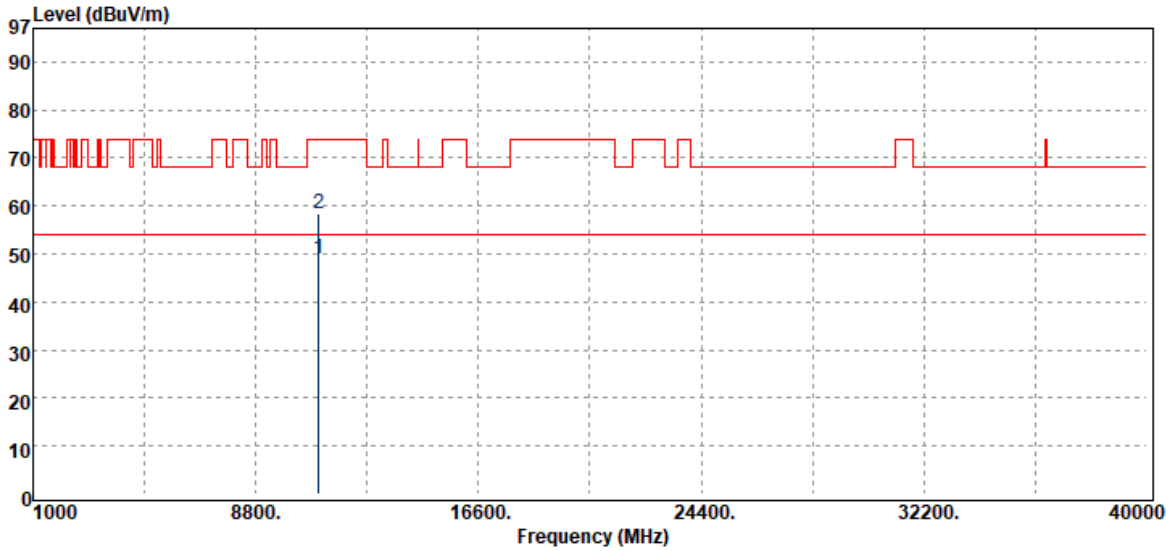
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n20 B3	Temp./Humi.	:21.6/67
Test Frequency	:5500 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	21.77	27.32	49.09	54.00	-4.91
11000.00	Peak	31.10	27.32	58.42	74.00	-15.58

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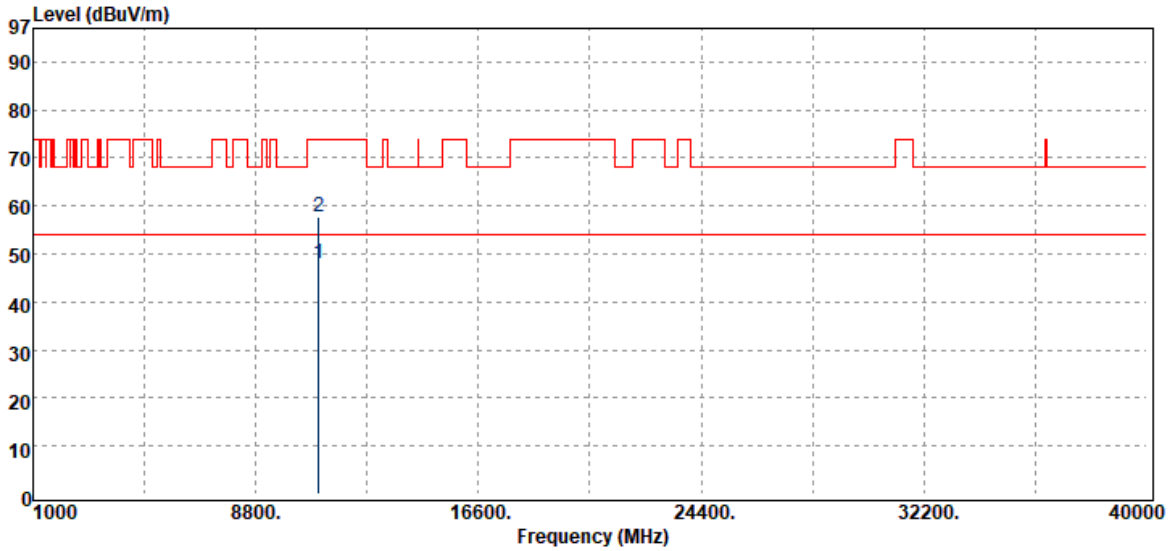
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n20 B3	Temp./Humi.	:21.6/67
Test Frequency	:5500 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	20.73	27.32	48.05	54.00	-5.95
11000.00	Peak	30.45	27.32	57.77	74.00	-16.23

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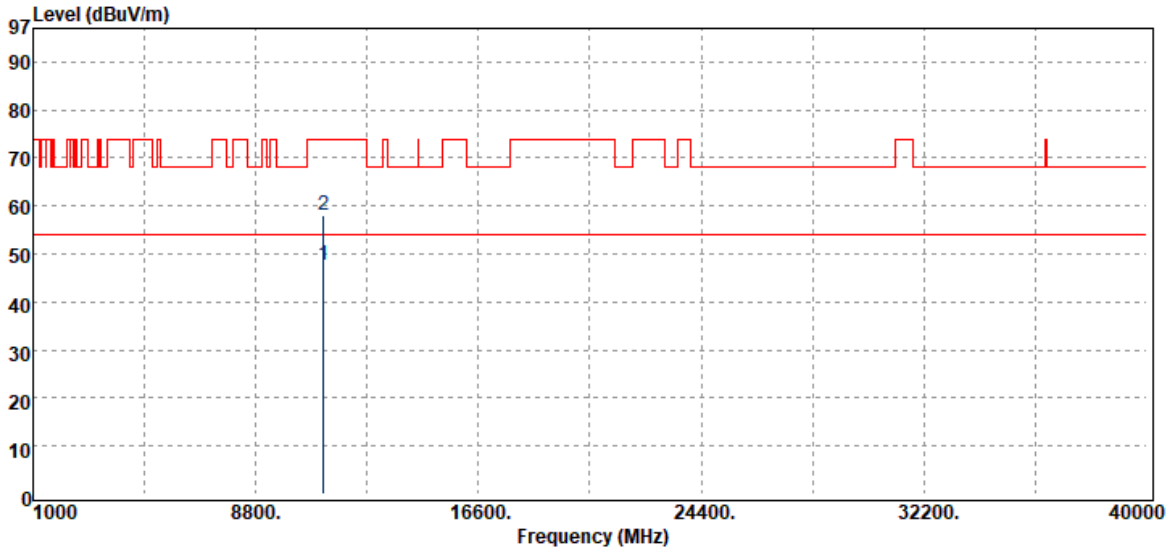
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n20 B3	Temp./Humi.	:21.6/67
Test Frequency	:5580 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



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	20.73	26.98	47.71	54.00	-6.29
11160.00	Peak	31.09	26.98	58.07	74.00	-15.93

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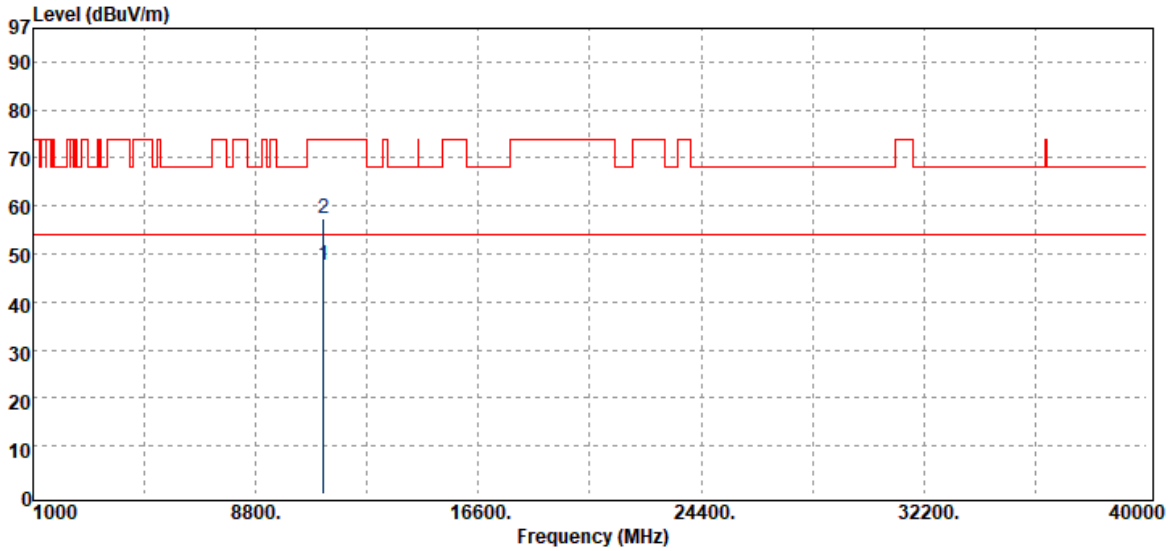
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n20 B3	Temp./Humi.	:21.6/67
Test Frequency	:5580 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



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	20.57	26.98	47.55	54.00	-6.45
11160.00	Peak	30.45	26.98	57.43	74.00	-16.57

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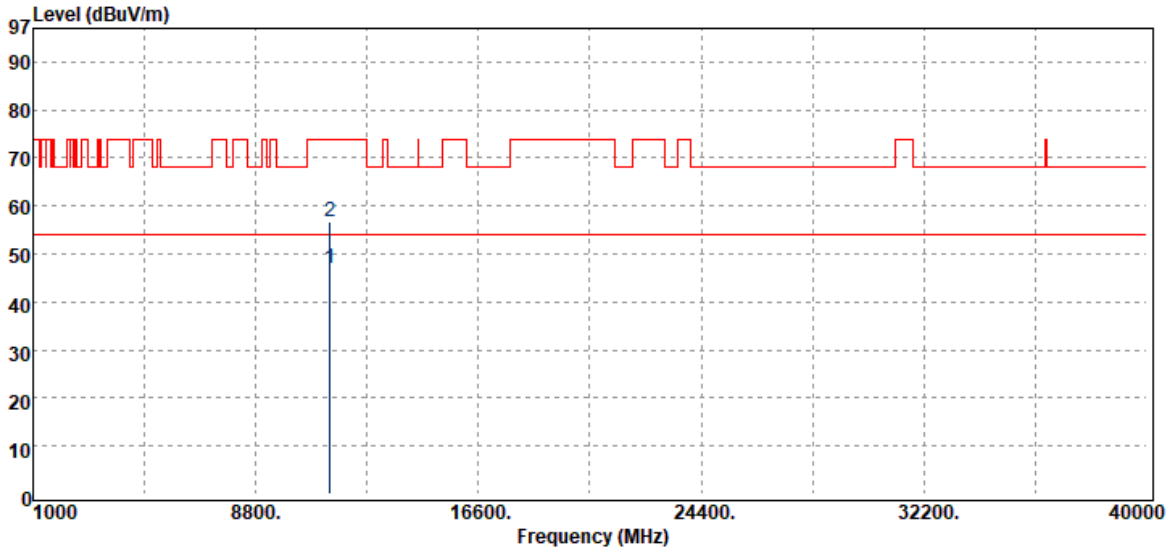
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n20 B3	Temp./Humi.	:21.6/67
Test Frequency	:5700 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11400.00	Average	19.41	27.54	46.95	54.00	-7.05
11400.00	Peak	29.30	27.54	56.84	74.00	-17.16

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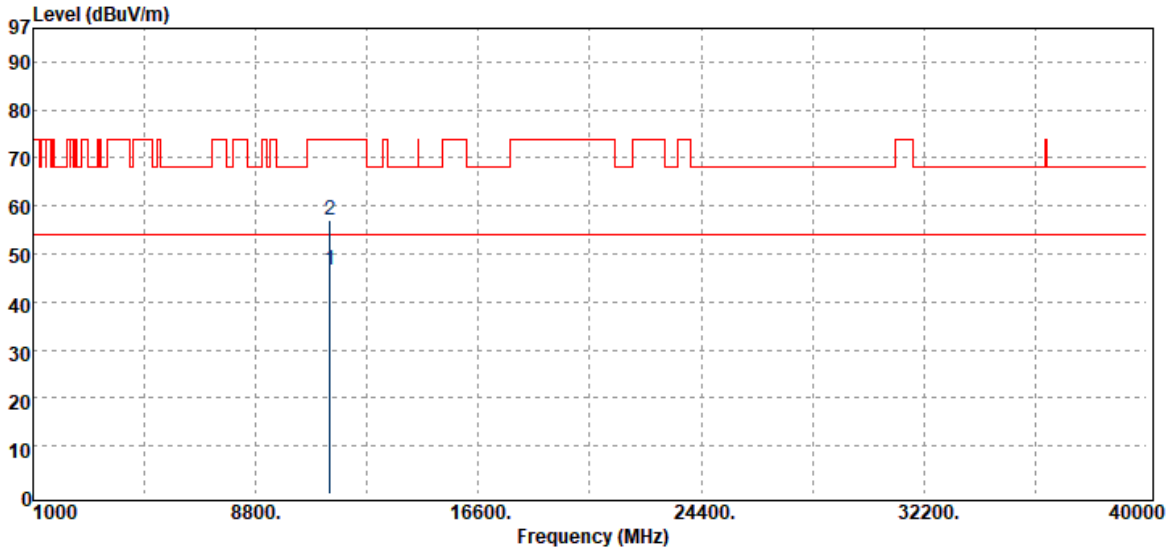
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n20 B3	Temp./Humi.	:21.6/67
Test Frequency	:5700 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	19.00	27.54	46.54	54.00	-7.46
11400.00	Peak	29.63	27.54	57.17	74.00	-16.83

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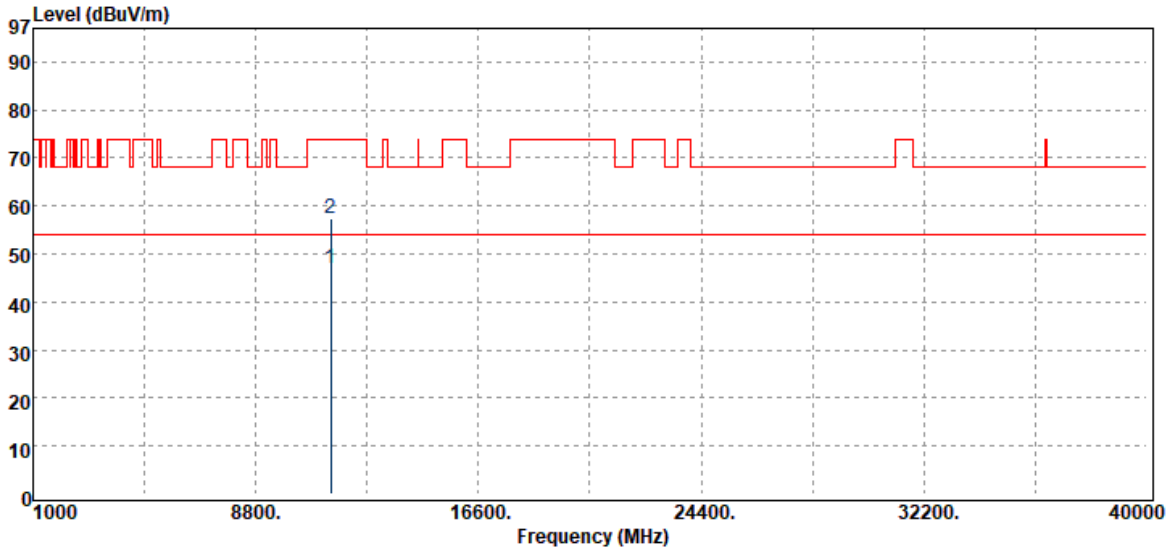
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n20 B3-B4	Temp./Humi.	:21.6/67
Test Frequency	:5720 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	19.35	27.76	47.11	54.00	-6.89
11440.00	Peak	29.69	27.76	57.45	74.00	-16.55

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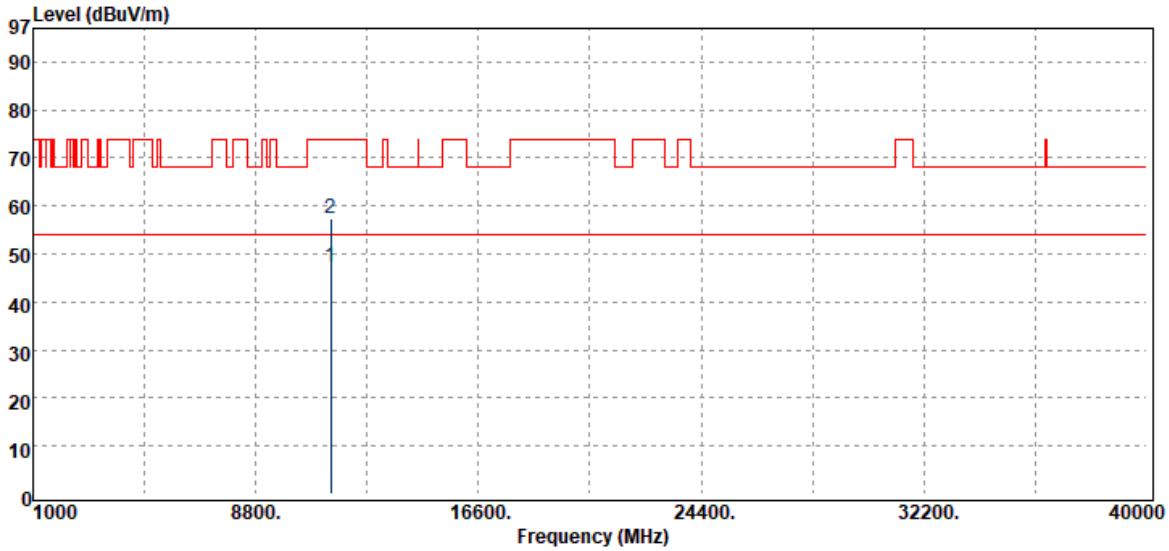
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n20 B3-B4	Temp./Humi.	:21.6/67
Test Frequency	:5720 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11440.00	Average	19.42	27.76	47.18	54.00	-6.82
11440.00	Peak	29.50	27.76	57.26	74.00	-16.74

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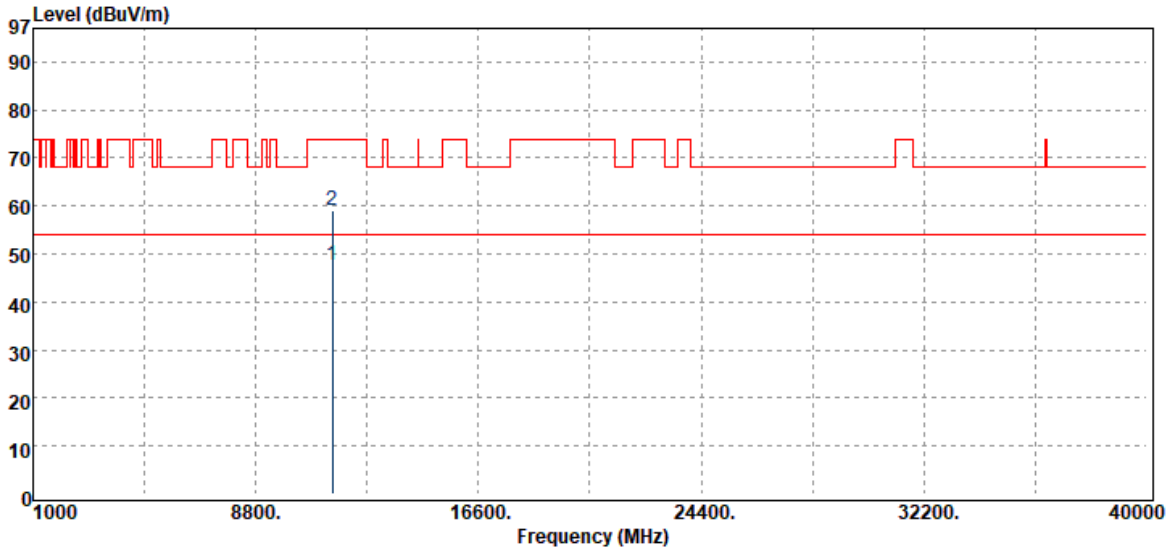
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n20 B4	Temp./Humi.	:21.6/67
Test Frequency	:5745 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	Average	19.75	28.07	47.82	54.00	-6.18
11490.00	Peak	31.04	28.07	59.11	74.00	-14.89

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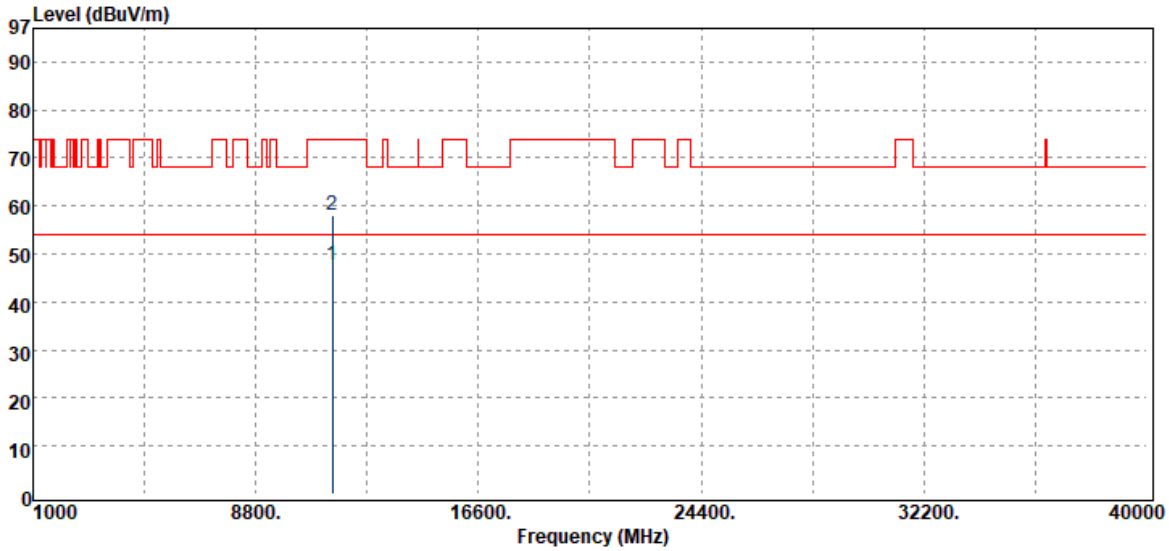
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n20 B4	Temp./Humi.	:21.6/67
Test Frequency	:5745 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	Average	19.71	28.07	47.78	54.00	-6.22
11490.00	Peak	29.86	28.07	57.93	74.00	-16.07

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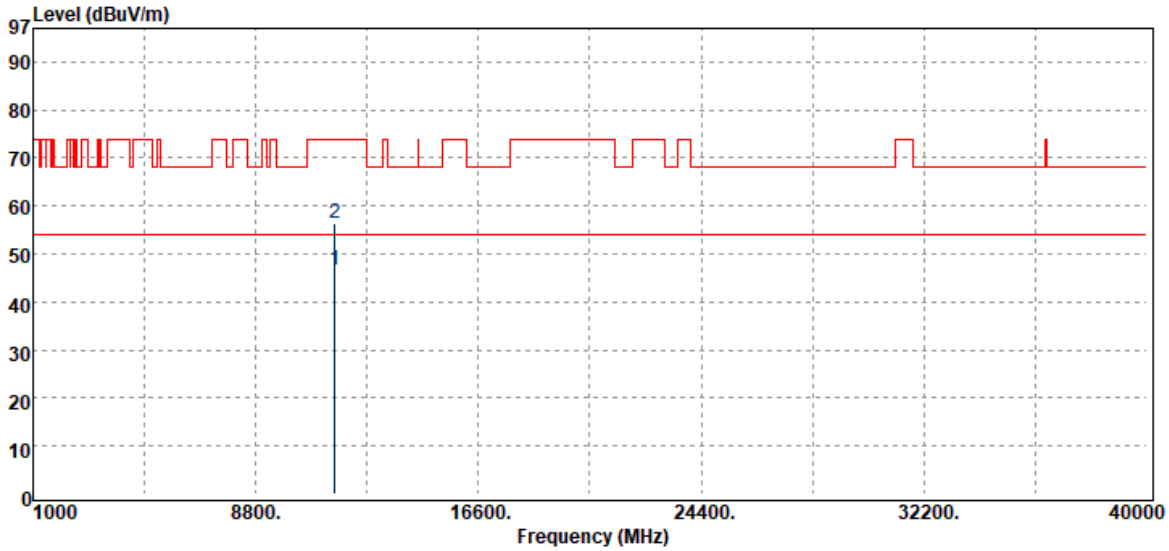
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n20 B4	Temp./Humi.	:21.6/67
Test Frequency	:5785 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	19.48	27.18	46.66	54.00	-7.34
11570.00	Peak	29.19	27.18	56.37	74.00	-17.63

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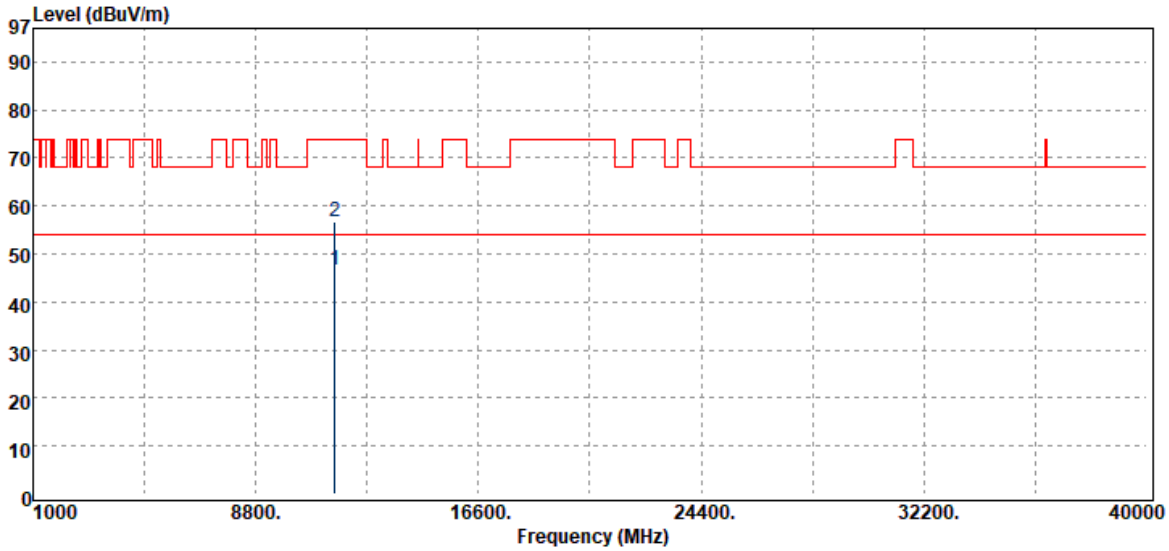
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n20 B4	Temp./Humi.	:21.6/67
Test Frequency	:5785 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11570.00	Average	19.42	27.18	46.60	54.00	-7.40
11570.00	Peak	29.62	27.18	56.80	74.00	-17.20

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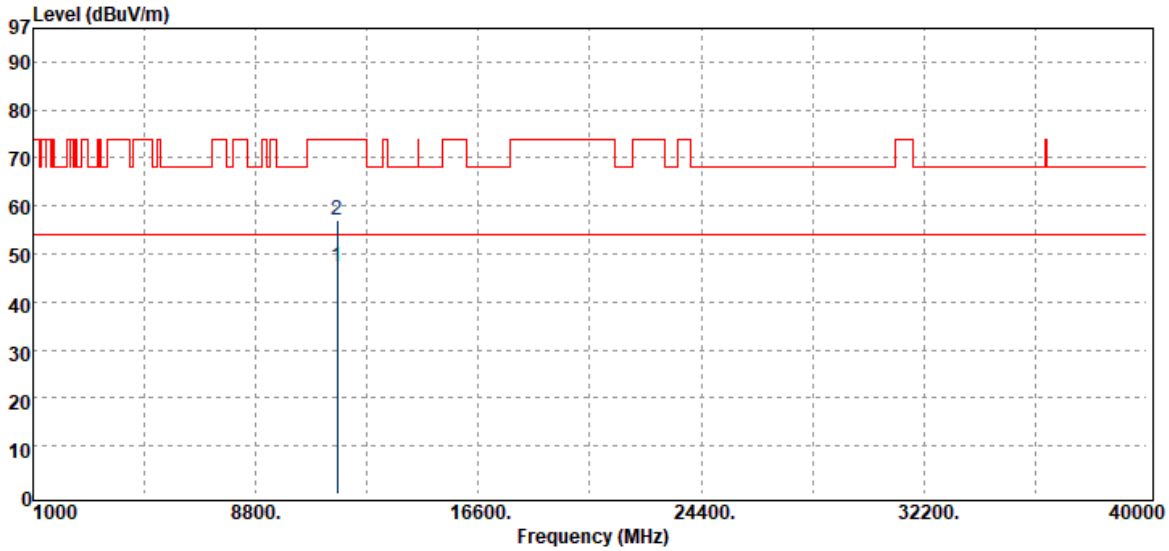
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n20 B4	Temp./Humi.	:21.6/67
Test Frequency	:5825 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11650.00	Average	19.69	27.69	47.38	54.00	-6.62
11650.00	Peak	29.50	27.69	57.19	74.00	-16.81

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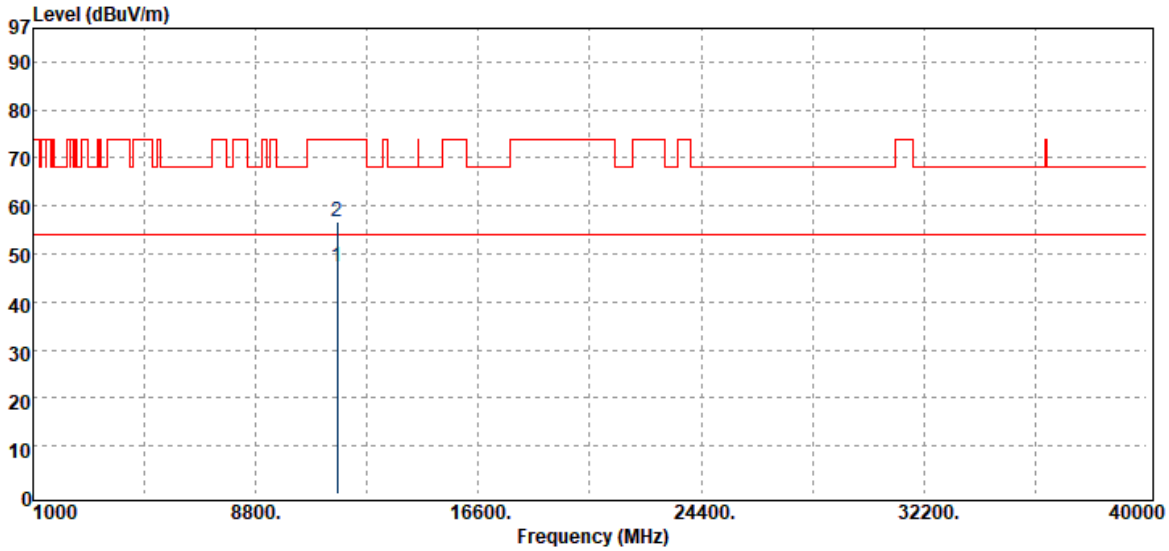
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n20 B4	Temp./Humi.	:21.6/67
Test Frequency	:5825 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11650.00	Average	19.54	27.69	47.23	54.00	-6.77
11650.00	Peak	29.13	27.69	56.82	74.00	-17.18

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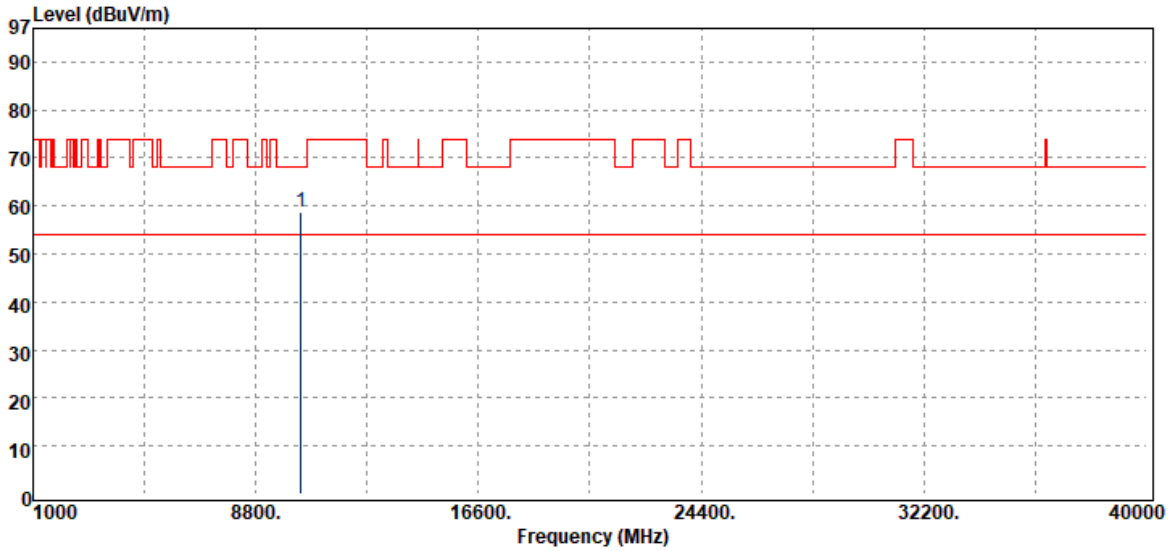
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B1	Temp./Humi.	:21.6/67
Test Frequency	:5190 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	32.16	26.61	58.77	68.20	-9.43

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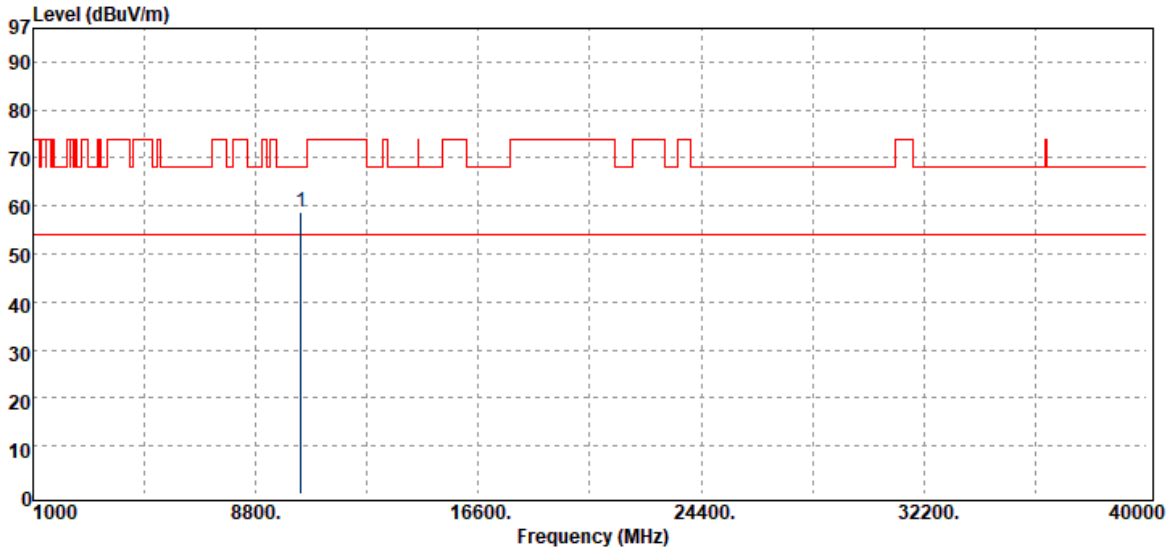
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B1	Temp./Humi.	:21.6/67
Test Frequency	:5190 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	32.09	26.61	58.70	68.20	-9.50

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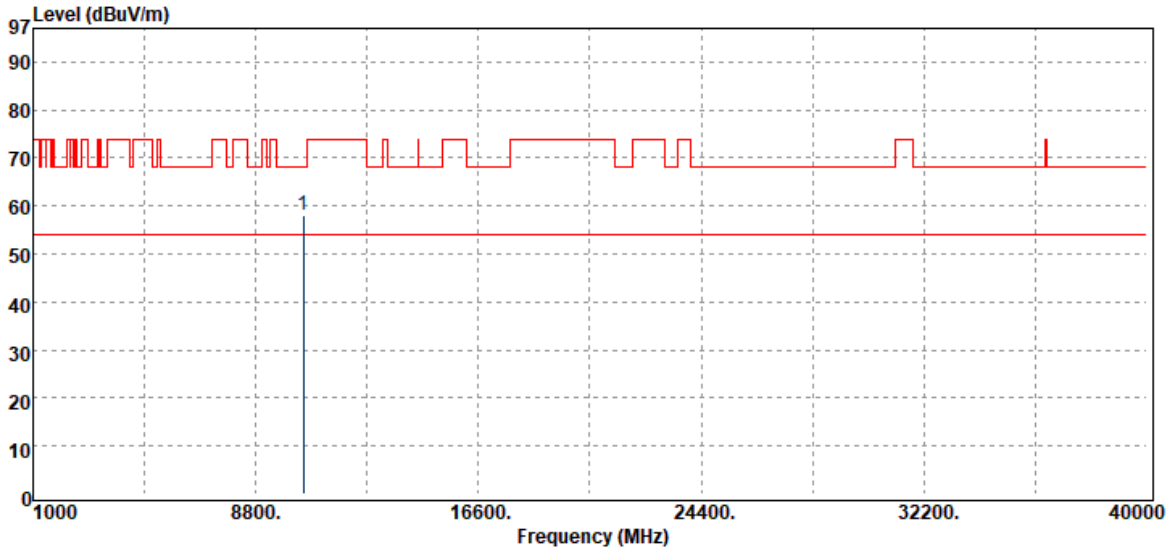
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B1	Temp./Humi.	:21.6/67
Test Frequency	:5230 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	31.37	26.63	58.00	68.20	-10.20

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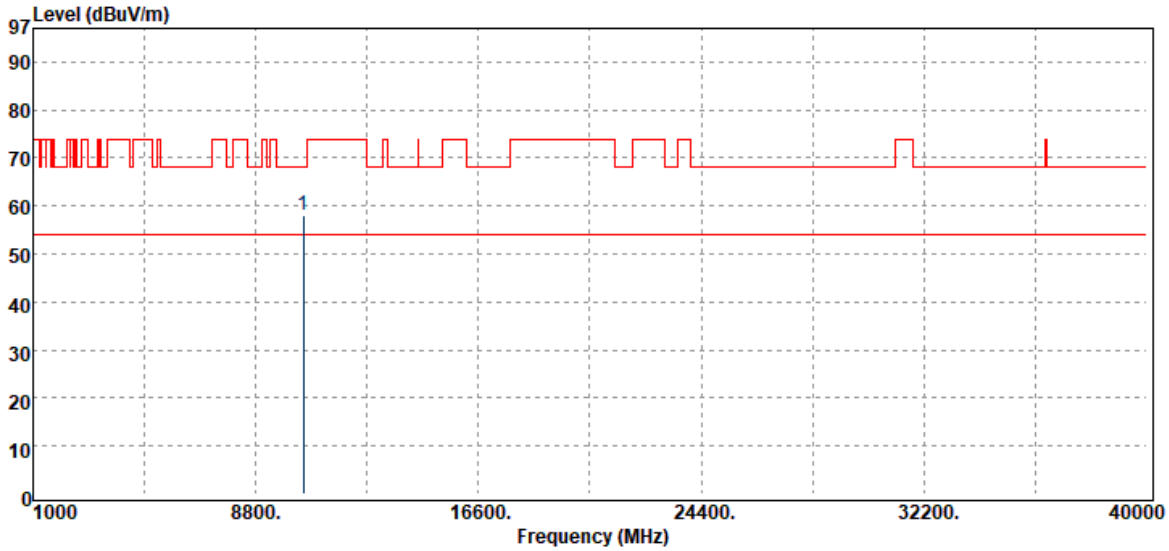
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B1	Temp./Humi.	:21.6/67
Test Frequency	:5230 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10465.00	Peak	31.60	26.57	58.17	68.20	-10.03

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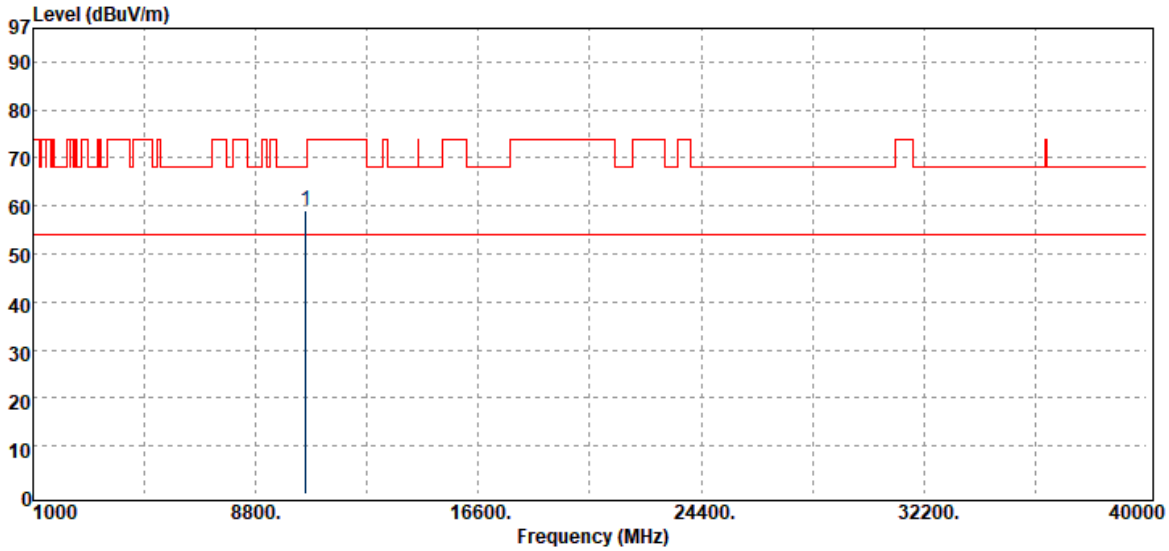
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B2	Temp./Humi.	:21.6/67
Test Frequency	:5270 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	32.56	26.47	59.03	68.20	-9.17

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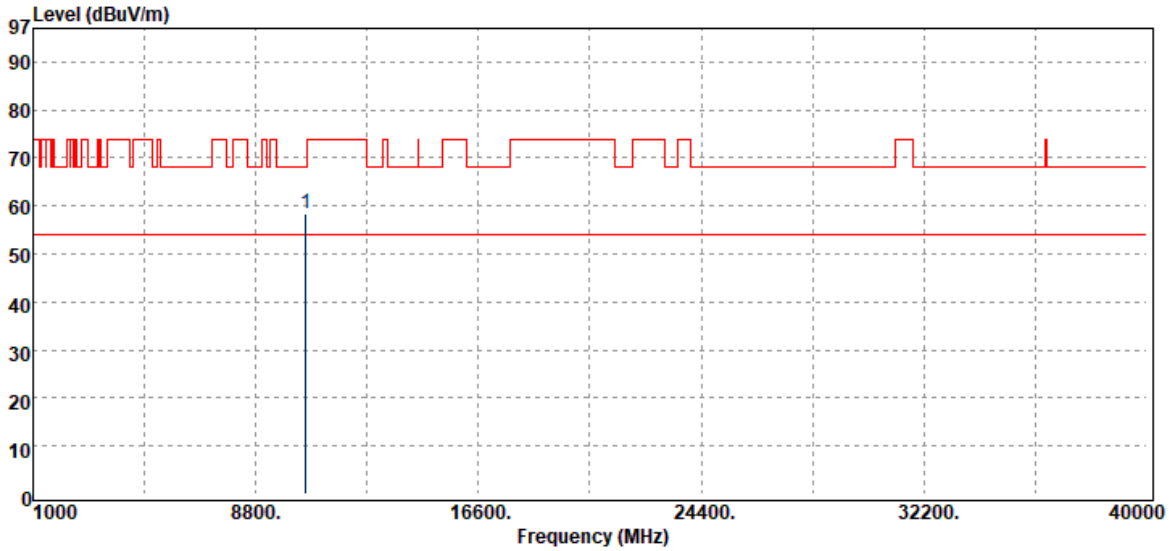
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B2	Temp./Humi.	:21.6/67
Test Frequency	:5270 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	31.84	26.47	58.31	68.20	-9.89

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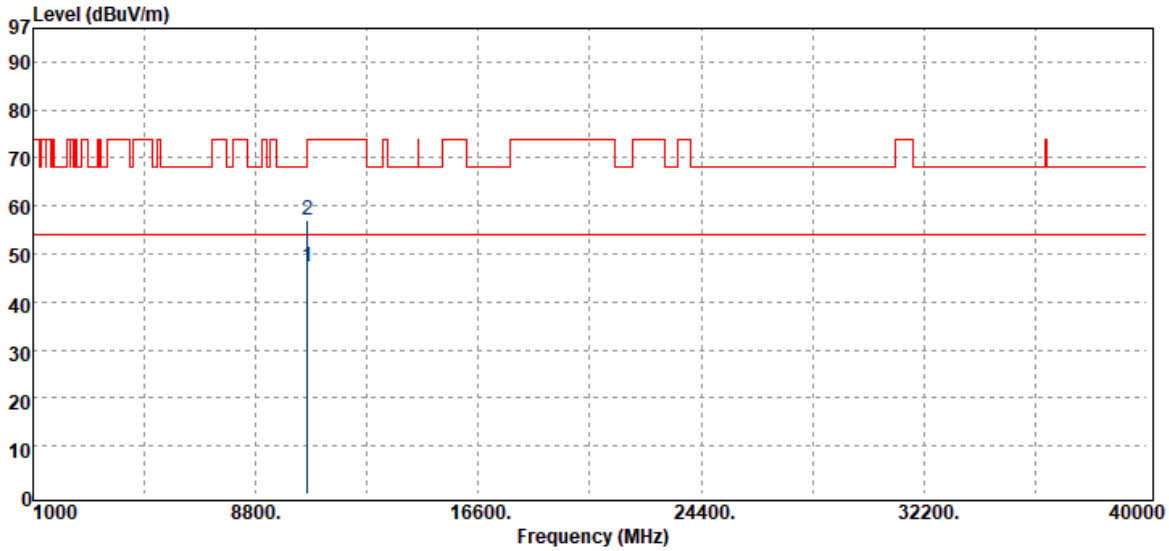
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B2	Temp./Humi.	:21.6/67
Test Frequency	:5310 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	20.66	26.64	47.30	54.00	-6.70
10620.00	Peak	30.35	26.64	56.99	74.00	-17.01

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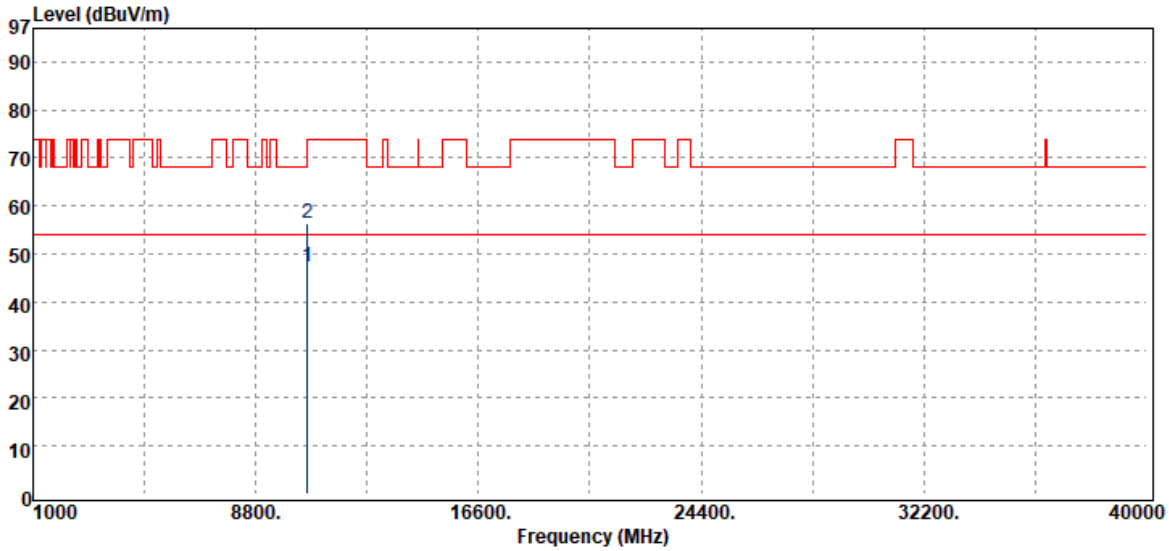
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B2	Temp./Humi.	:21.6/67
Test Frequency	:5310 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	20.55	26.64	47.19	54.00	-6.81
10620.00	Peak	29.69	26.64	56.33	74.00	-17.67

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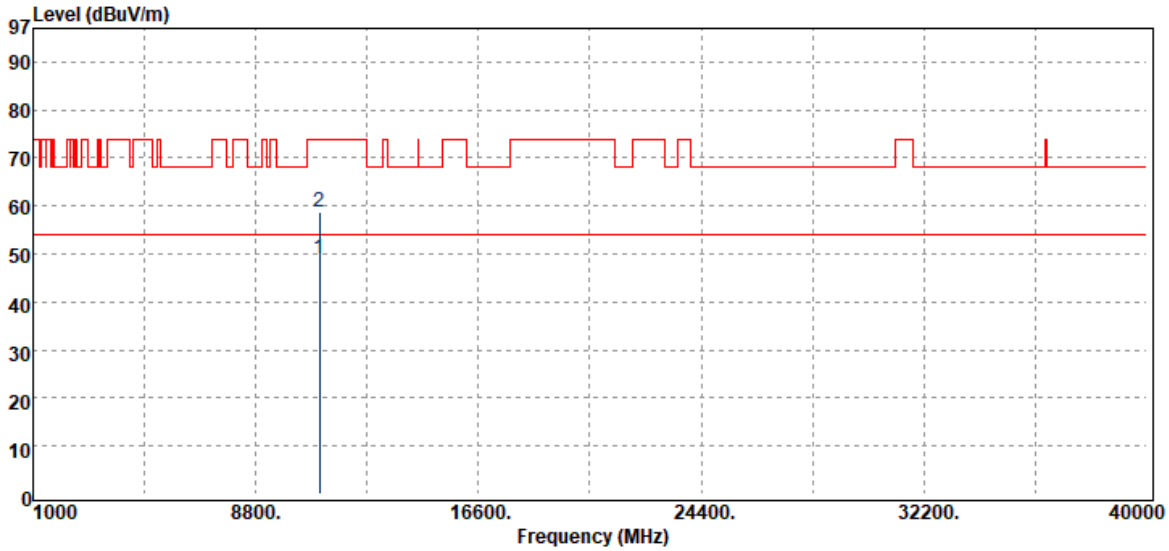
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B3	Temp./Humi.	:21.6/67
Test Frequency	:5510 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	21.94	27.09	49.03	54.00	-4.97
11020.00	Peak	31.52	27.09	58.61	74.00	-15.39

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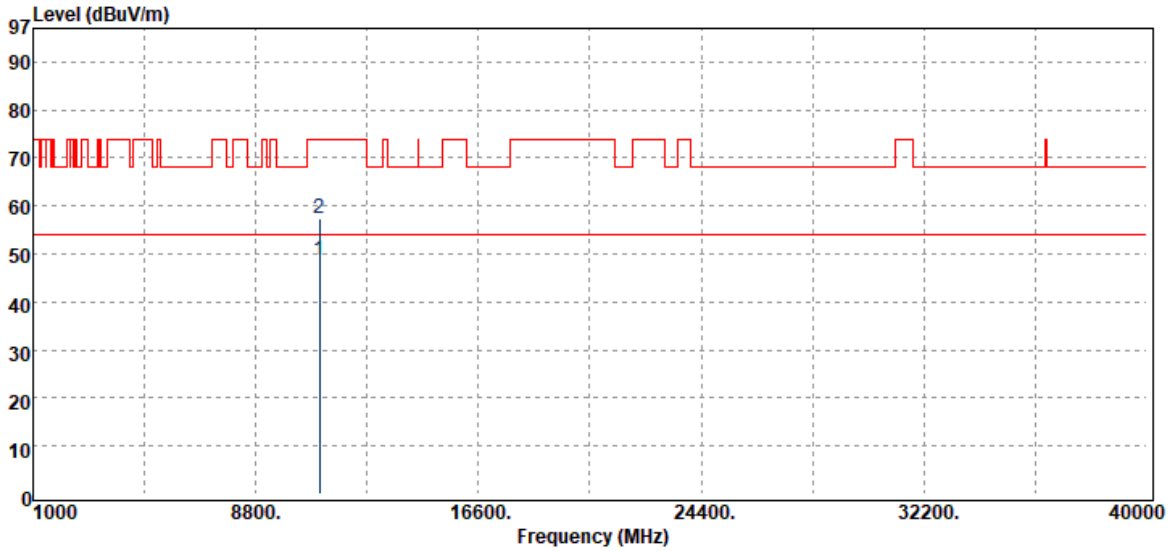
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B3	Temp./Humi.	:21.6/67
Test Frequency	:5510 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	21.47	27.09	48.56	54.00	-5.44
11020.00	Peak	30.37	27.09	57.46	74.00	-16.54

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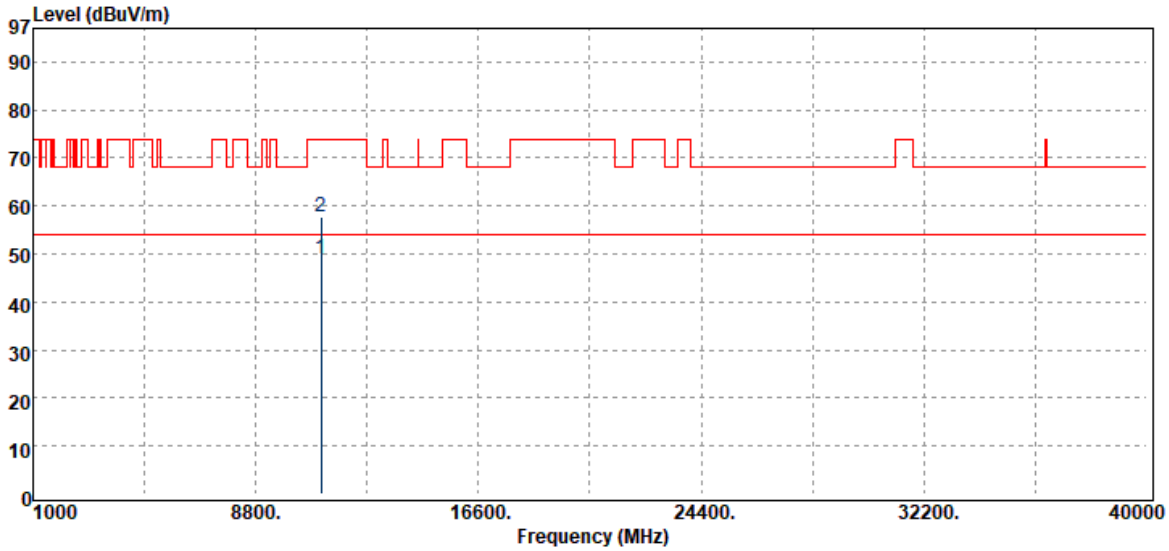
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B3	Temp./Humi.	:21.6/67
Test Frequency	:5550 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



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	21.61	27.23	48.84	54.00	-5.16
11100.00	Peak	30.60	27.23	57.83	74.00	-16.17

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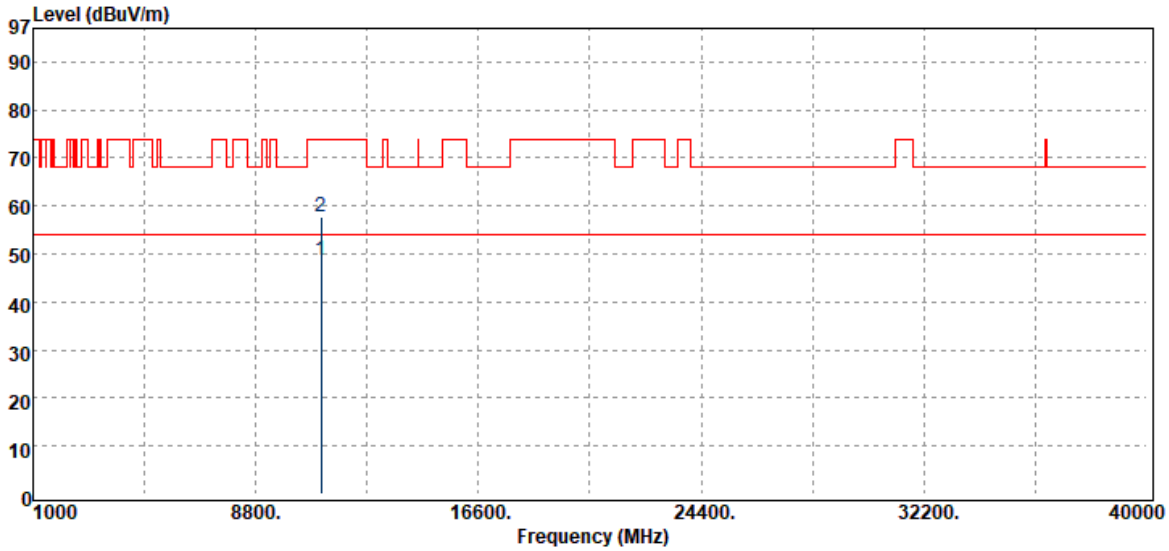
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B3	Temp./Humi.	:21.6/67
Test Frequency	:5550 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



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	21.42	27.23	48.65	54.00	-5.35
11100.00	Peak	30.66	27.23	57.89	74.00	-16.11

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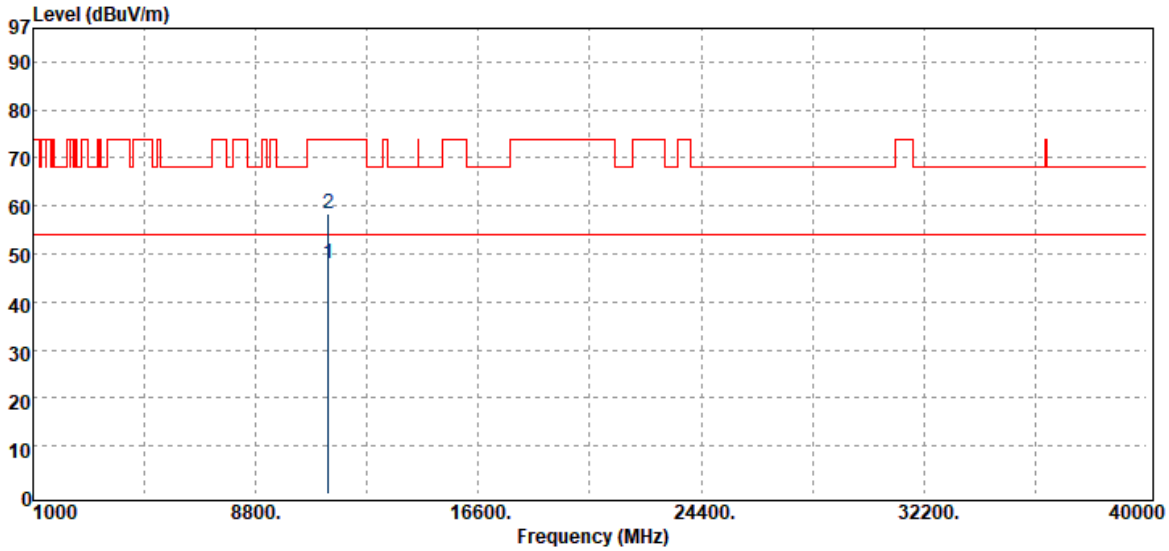
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B3	Temp./Humi.	:21.6/67
Test Frequency	:5670 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	20.35	27.77	48.12	54.00	-5.88
11340.00	Peak	30.55	27.77	58.32	74.00	-15.68

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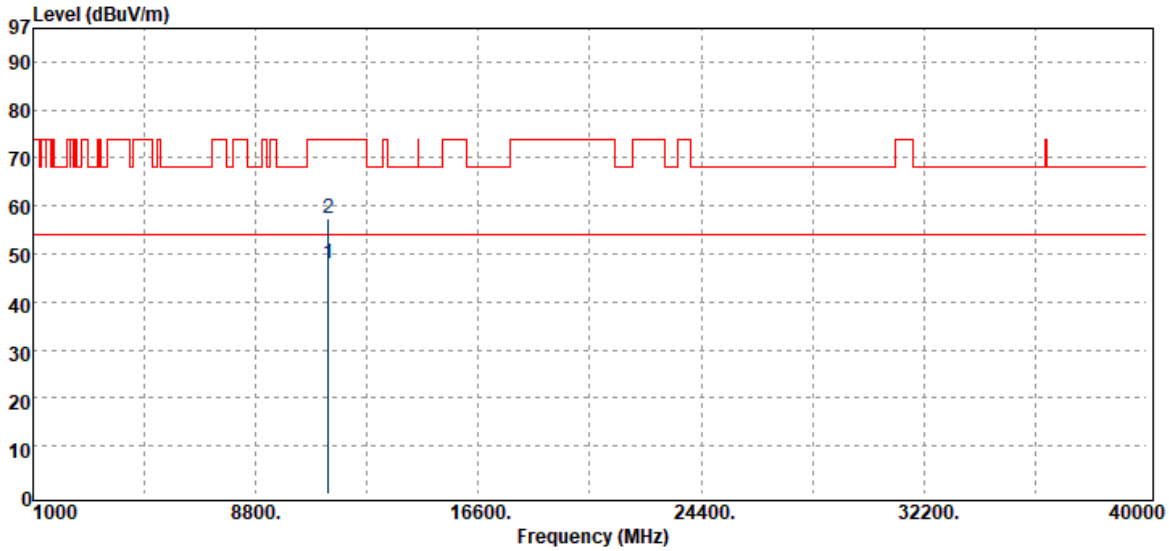
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B3	Temp./Humi.	:21.6/67
Test Frequency	:5670 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	20.30	27.77	48.07	54.00	-5.93
11340.00	Peak	29.60	27.77	57.37	74.00	-16.63

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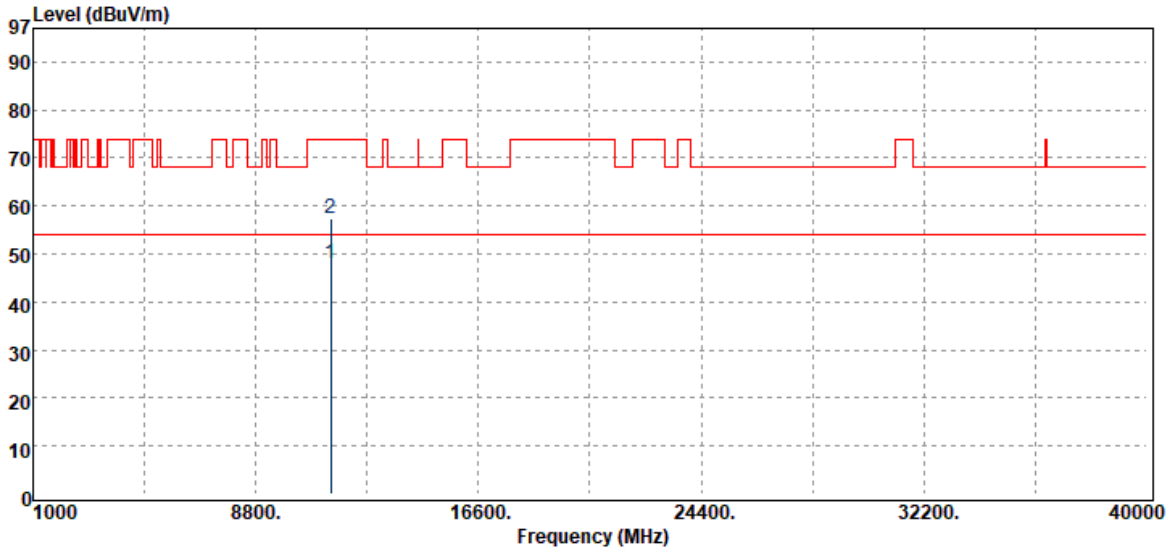
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B3-B4	Temp./Humi.	:21.6/67
Test Frequency	:5710 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	20.20	27.66	47.86	54.00	-6.14
11420.00	Peak	29.65	27.66	57.31	74.00	-16.69

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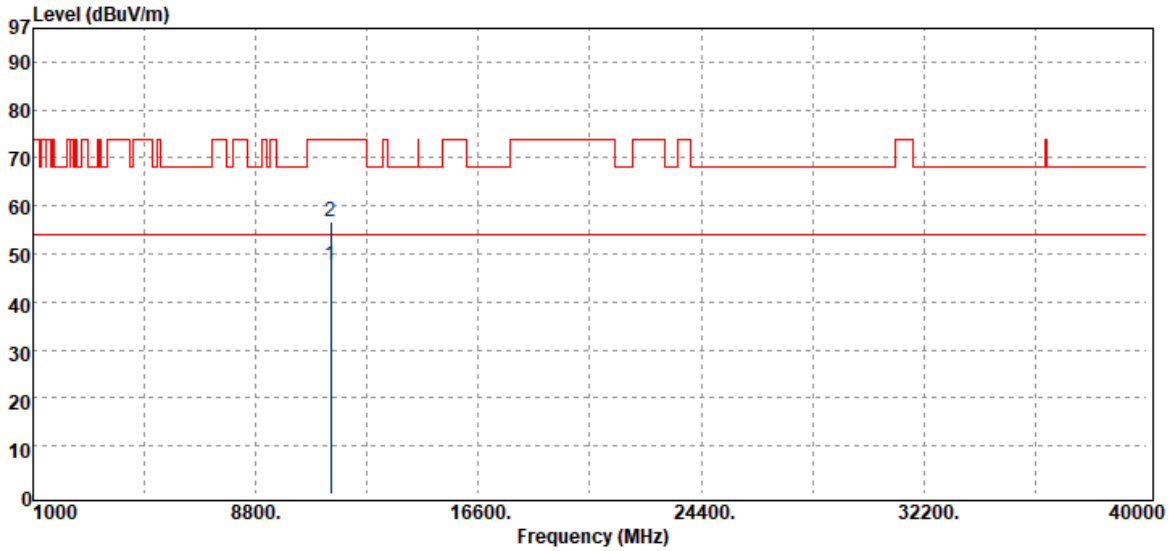
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B3-B4	Temp./Humi.	:21.6/67
Test Frequency	:5710 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	20.08	27.66	47.74	54.00	-6.26
11420.00	Peak	29.10	27.66	56.76	74.00	-17.24

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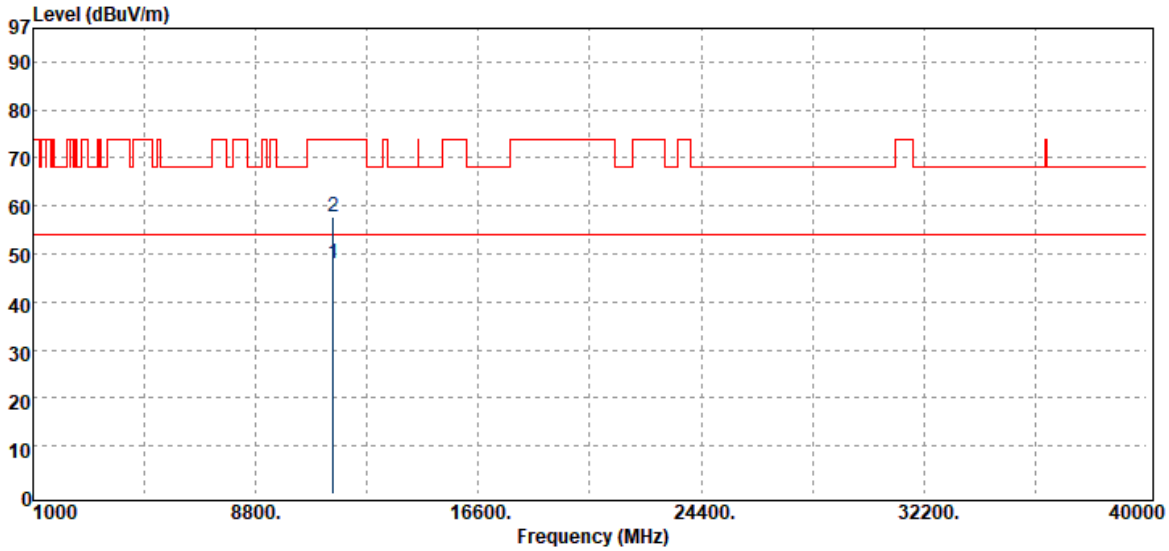
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B4	Temp./Humi.	:21.6/67
Test Frequency	:5755 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	19.93	27.96	47.89	54.00	-6.11
11510.00	Peak	29.88	27.96	57.84	74.00	-16.16

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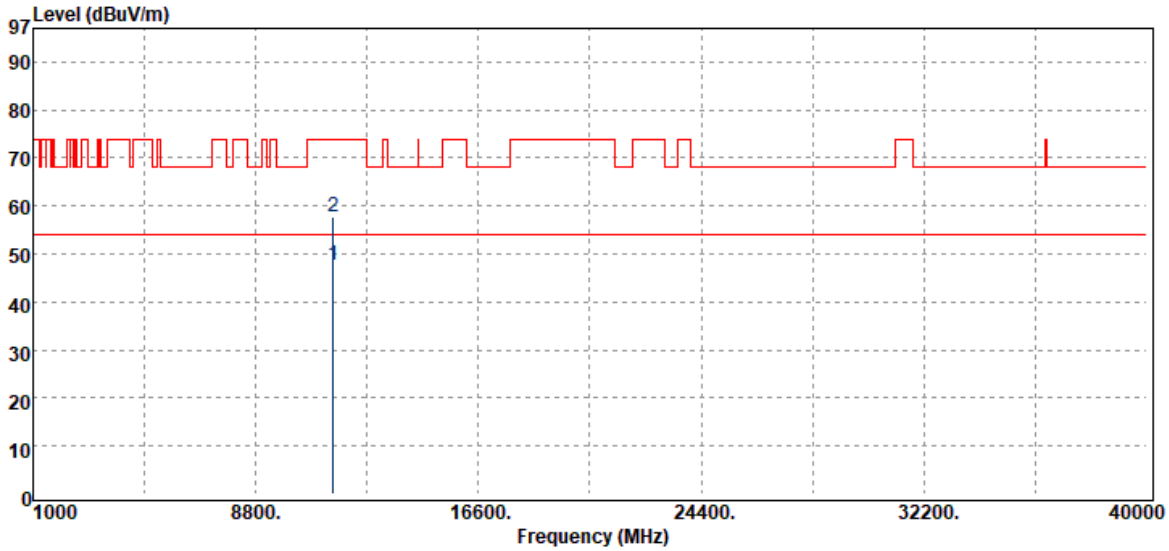
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B4	Temp./Humi.	:21.6/67
Test Frequency	:5755 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	19.86	27.96	47.82	54.00	-6.18
11510.00	Peak	29.87	27.96	57.83	74.00	-16.17

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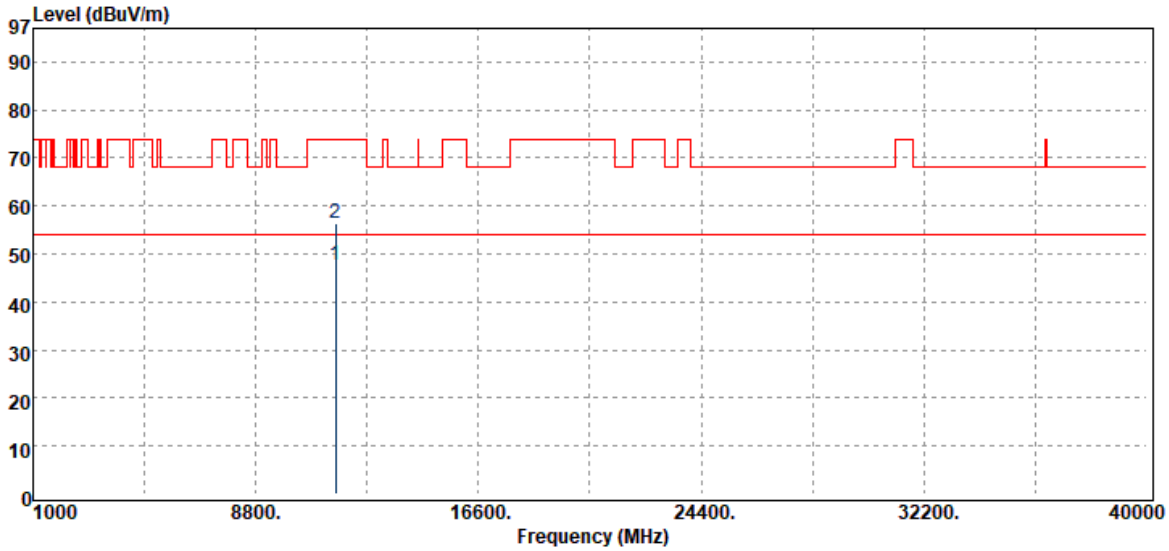
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B4	Temp./Humi.	:21.6/67
Test Frequency	:5795 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11590.00	Average	20.45	27.12	47.57	54.00	-6.43
11590.00	Peak	29.43	27.12	56.55	74.00	-17.45

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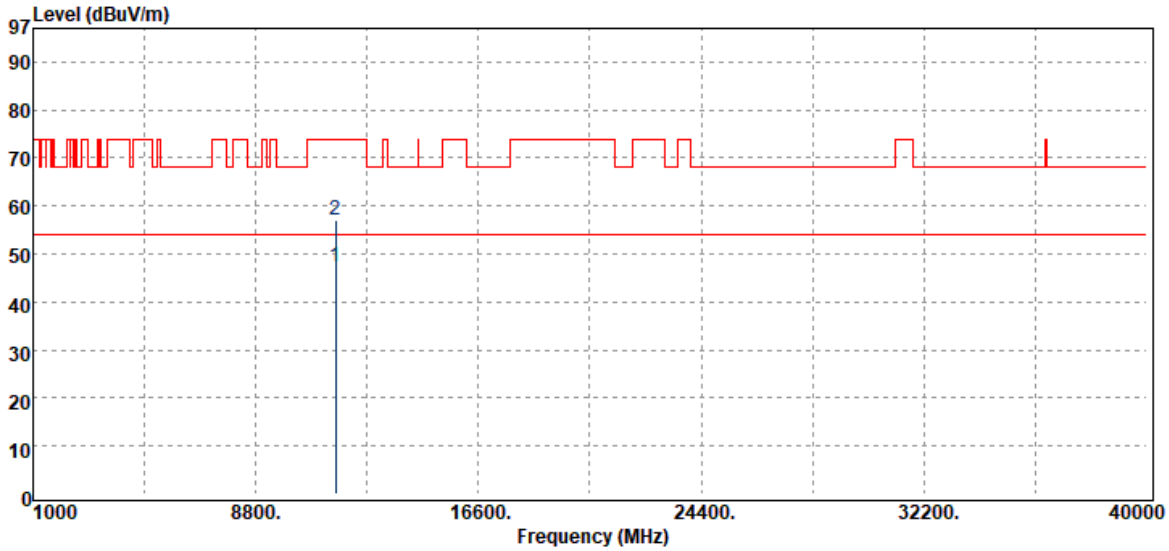
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11n40 B4	Temp./Humi.	:21.6/67
Test Frequency	:5795 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11590.00	Average	20.11	27.12	47.23	54.00	-6.77
11590.00	Peak	30.07	27.12	57.19	74.00	-16.81

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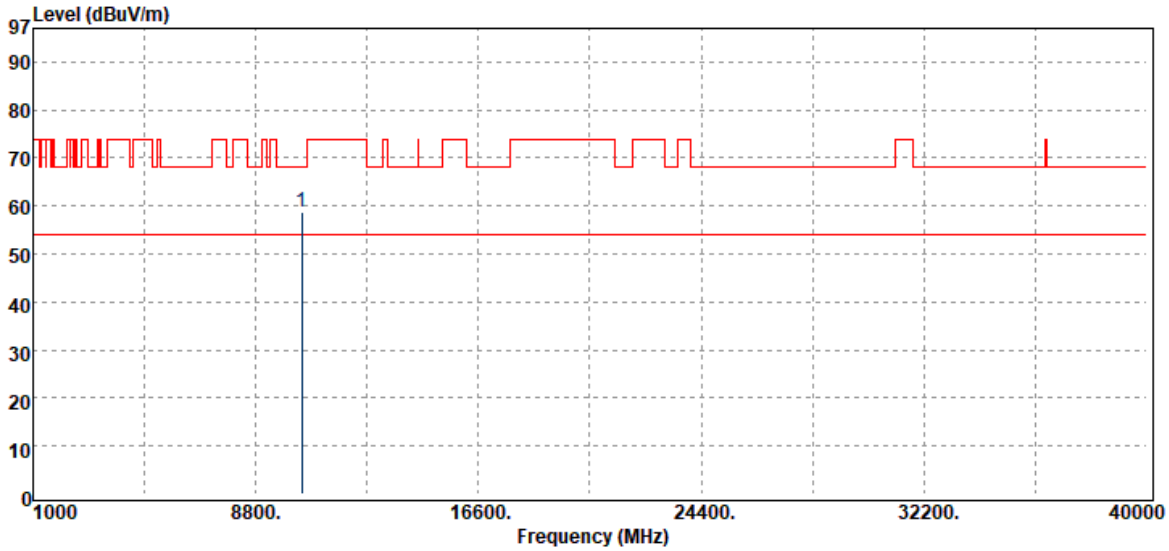
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11ac80 B1	Temp./Humi.	:21.6/67
Test Frequency	:5210 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	32.03	26.81	58.84	68.20	-9.36

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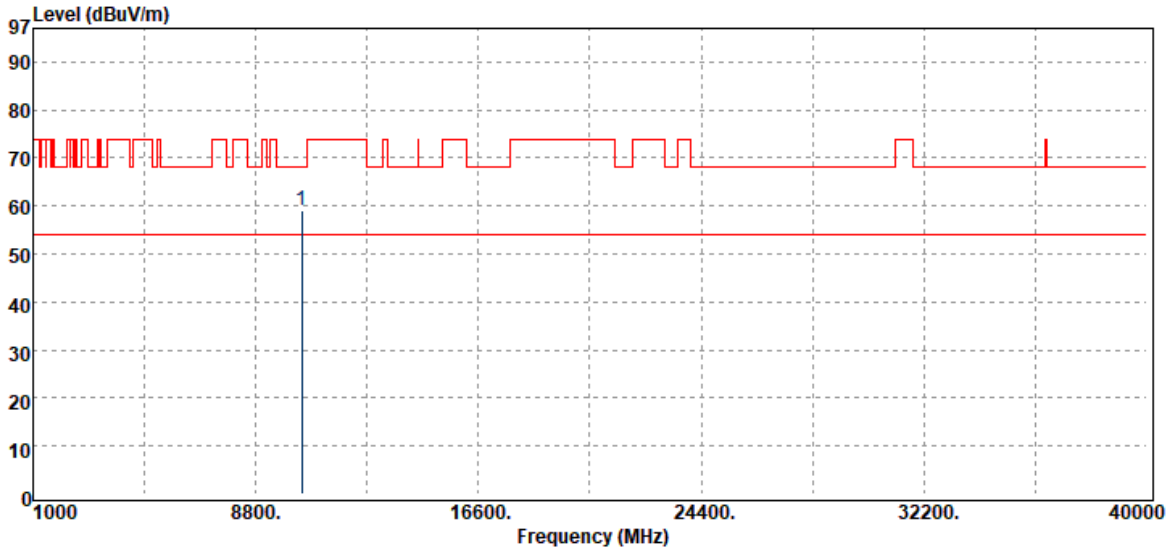
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11ac80 B1	Temp./Humi.	:21.6/67
Test Frequency	:5210 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	32.11	26.81	58.92	68.20	-9.28

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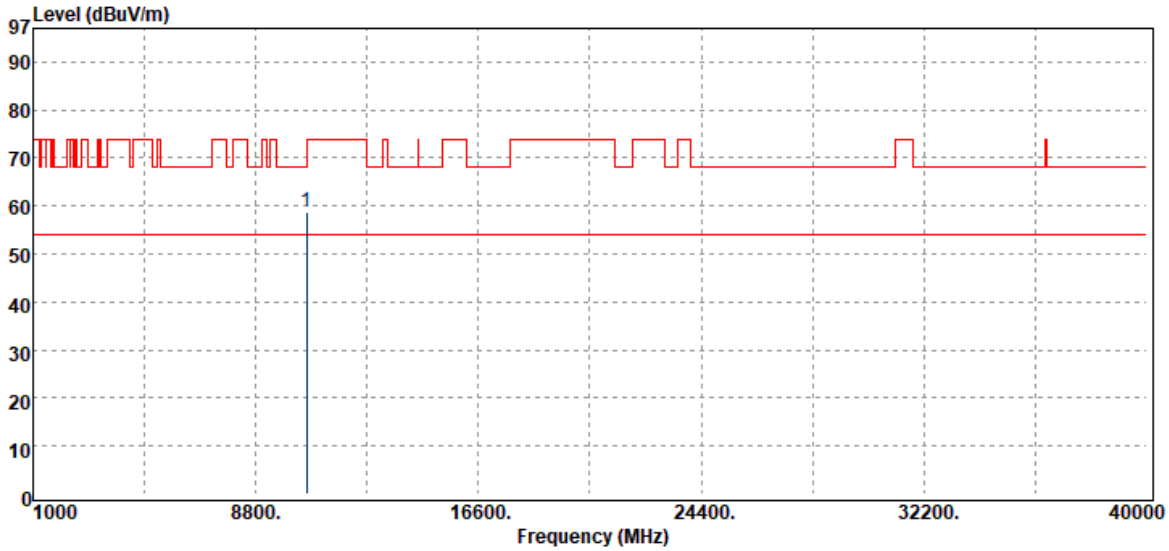
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11ac80 B2	Temp./Humi.	:21.6/67
Test Frequency	:5290 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	32.02	26.69	58.71	68.20	-9.49

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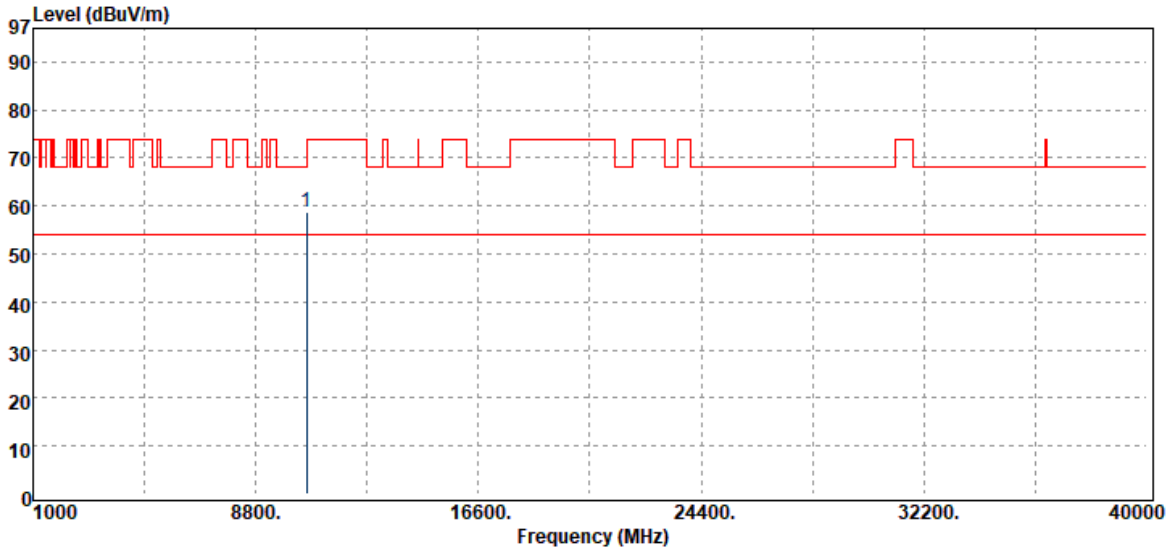
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11ac80 B2	Temp./Humi.	:21.6/67
Test Frequency	:5290 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	32.11	26.69	58.80	68.20	-9.40

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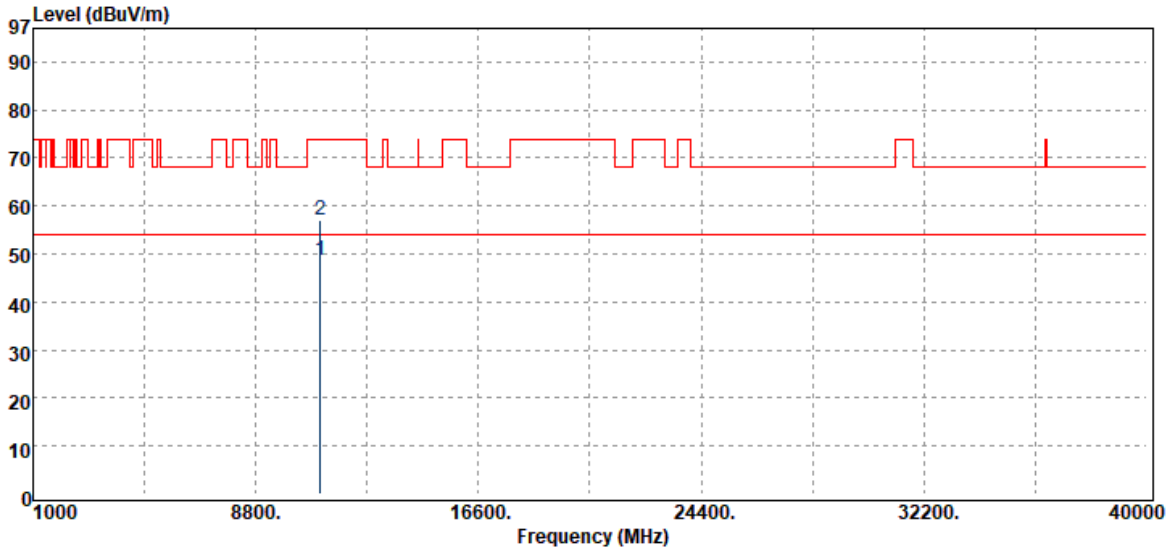
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11ac80 B3	Temp./Humi.	:21.6/67
Test Frequency	:5530 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	21.83	26.82	48.65	54.00	-5.35
11060.00	Peak	30.28	26.82	57.10	74.00	-16.90

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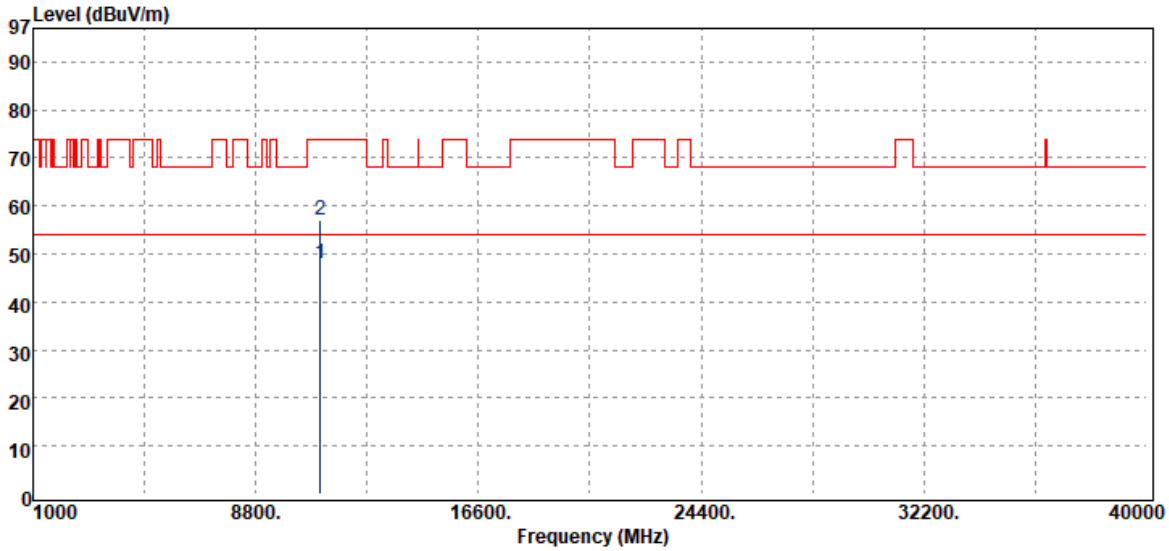
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11ac80 B3	Temp./Humi.	:21.6/67
Test Frequency	:5530 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	21.17	26.84	48.01	54.00	-5.99
11060.00	Peak	30.32	26.84	57.16	74.00	-16.84

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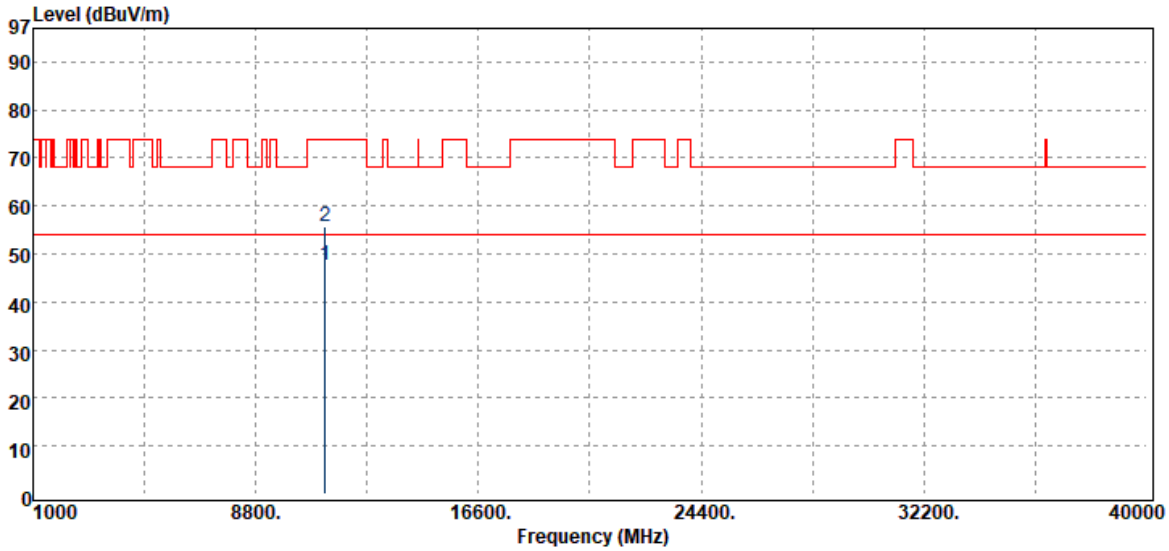
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11ac80 B3	Temp./Humi.	:21.6/67
Test Frequency	:5610 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



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	21.11	26.68	47.79	54.00	-6.21
11220.00	Peak	29.04	26.68	55.72	74.00	-18.28

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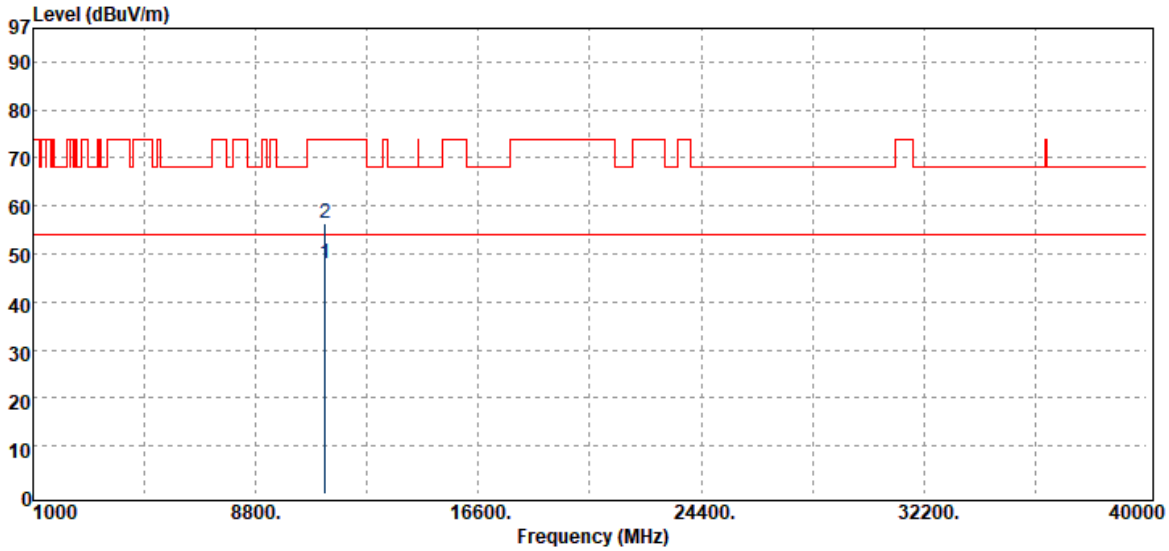
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11ac80 B3	Temp./Humi.	:21.6/67
Test Frequency	:5610 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



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	21.19	26.68	47.87	54.00	-6.13
11220.00	Peak	29.60	26.68	56.28	74.00	-17.72

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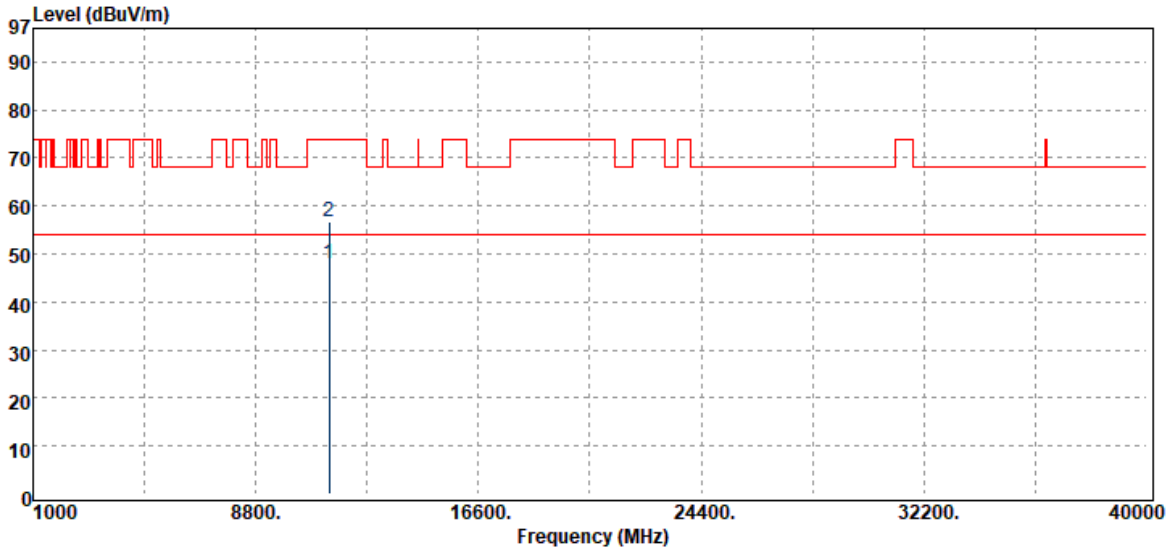
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11ac80 B3	Temp./Humi.	:21.6/67
Test Frequency	:5690 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	20.34	27.63	47.97	54.00	-6.03
11380.00	Peak	28.99	27.63	56.62	74.00	-17.38

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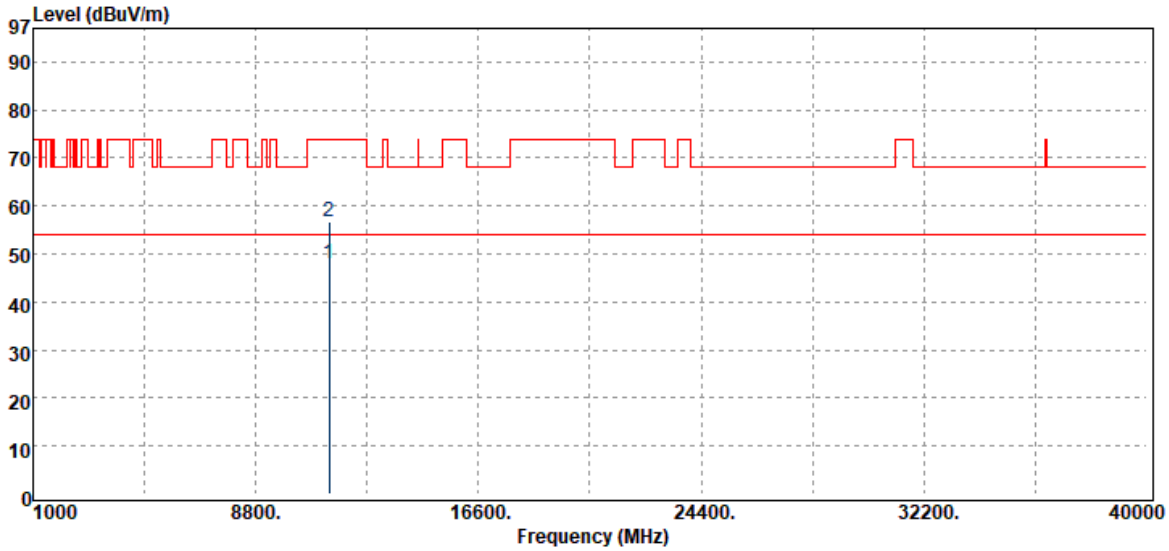
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11ac80 B3	Temp./Humi.	:21.6/67
Test Frequency	:5690 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	20.37	27.63	48.00	54.00	-6.00
11380.00	Peak	29.21	27.63	56.84	74.00	-17.16

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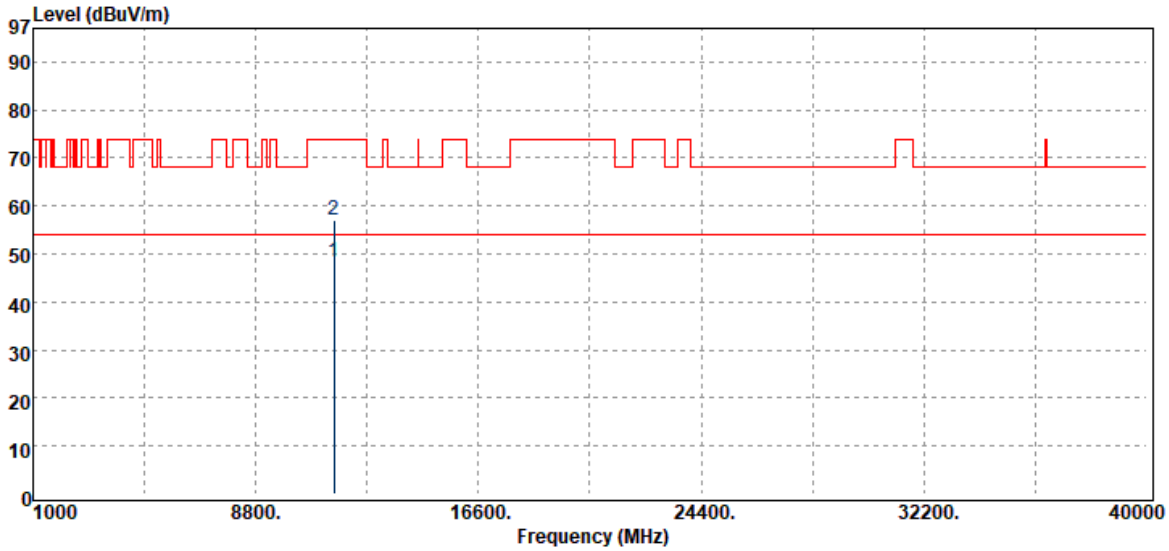
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11ac80 B4	Temp./Humi.	:21.6/67
Test Frequency	:5775 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	Average	20.96	27.23	48.19	54.00	-5.81
11550.00	Peak	29.76	27.23	56.99	74.00	-17.01

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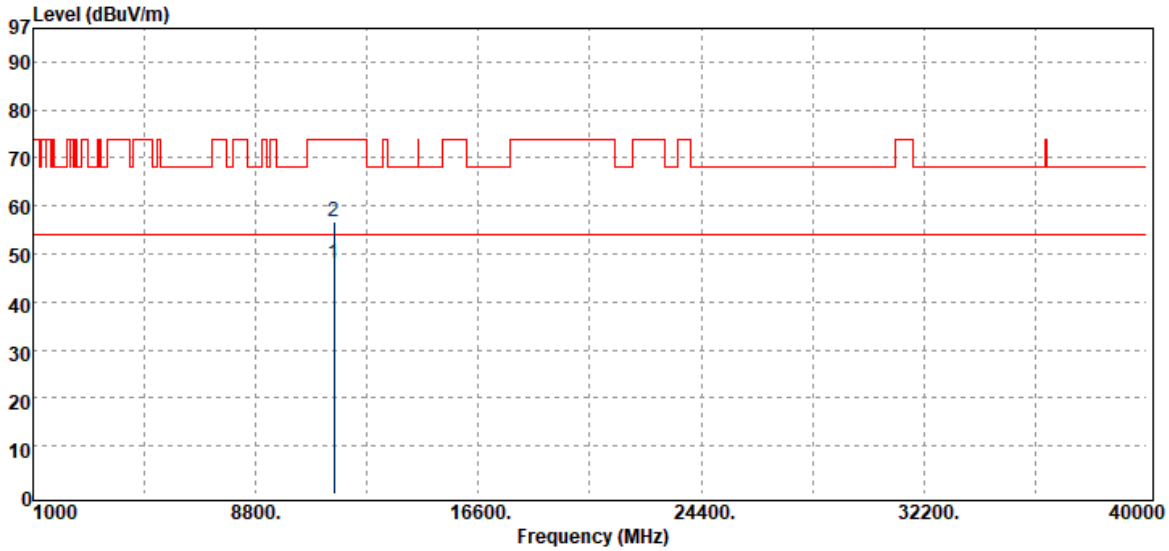
Report Number	:ER/2020/20061	Test Date	:2020-04-10
Operation Mode	:802.11ac80 B4	Temp./Humi.	:21.6/67
Test Frequency	:5775 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11550.00	Average	20.82	27.23	48.05	54.00	-5.95
11550.00	Peak	29.46	27.23	56.69	74.00	-17.31

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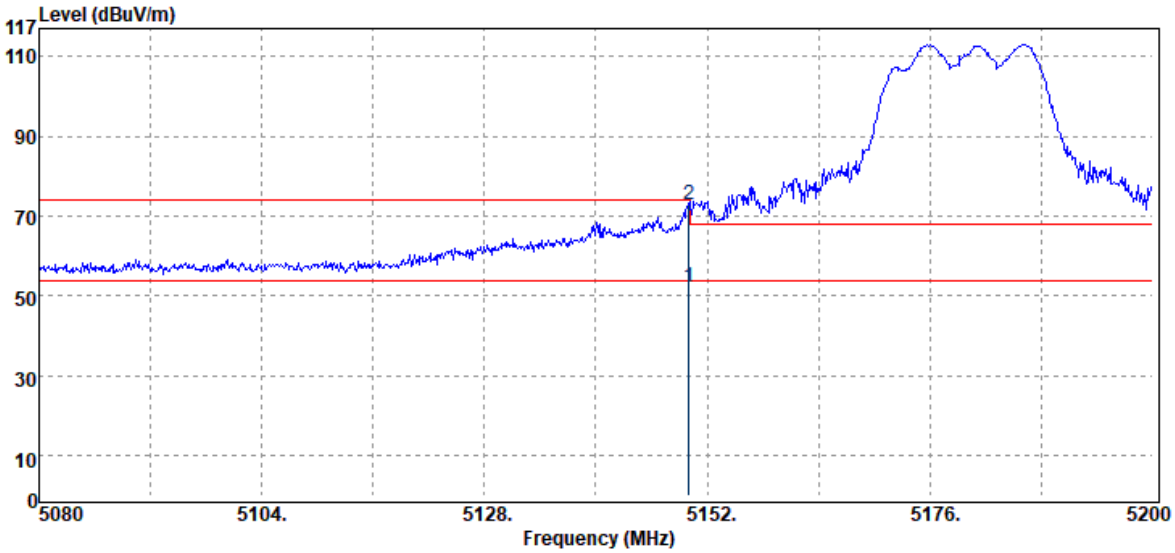
11.7.3 Band edge falling to restricted band

Report Number	:ER/2020/20061	Test Date	:2020-04-07
Operation Mode	:802.11a B1	Temp./Humi.	:21.3/64
Test Frequency	:5180 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	37.36	14.83	52.19	54.00	-1.81
5150.00	Peak	58.10	14.83	72.93	74.00	-1.07

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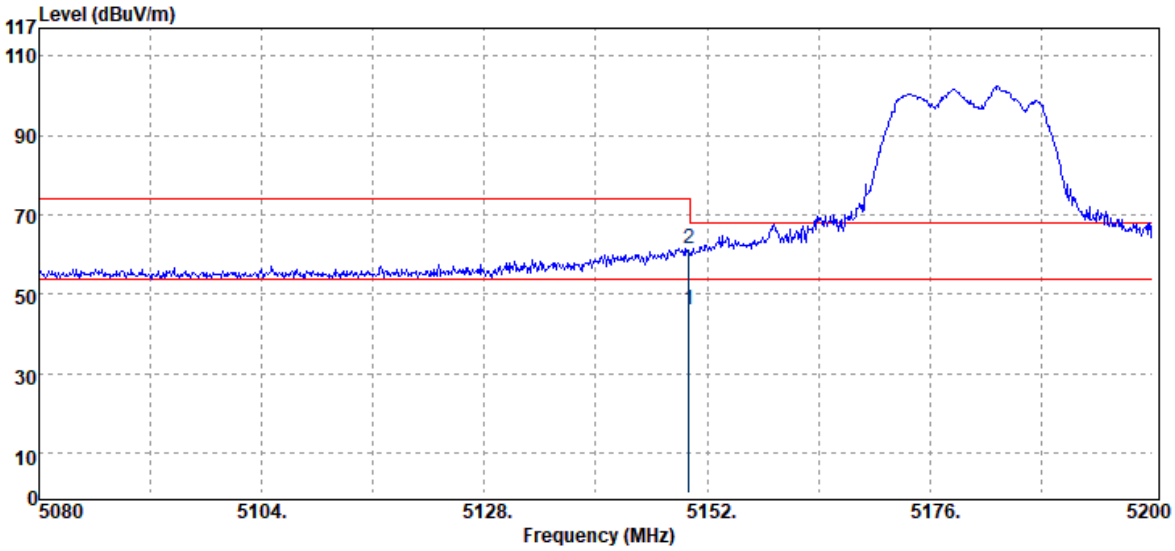
Report Number	:ER/2020/20061	Test Date	:2020-04-07
Operation Mode	:802.11a B1	Temp./Humi.	:21.3/64
Test Frequency	:5180 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	31.14	14.83	45.97	54.00	-8.03
5150.00	Peak	46.91	14.83	61.74	74.00	-12.26

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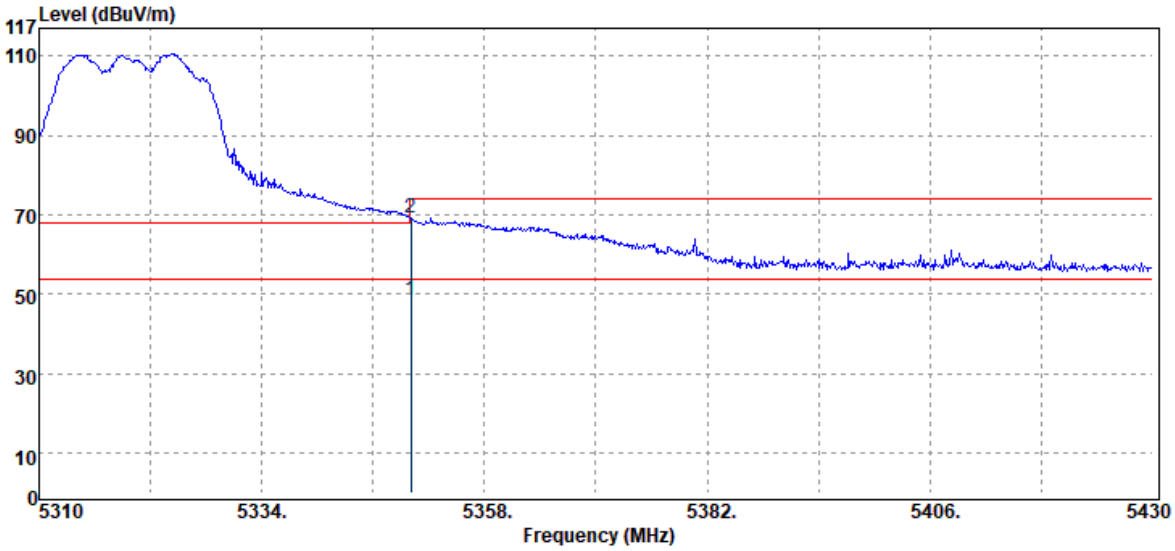
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11a B2	Temp./Humi.	:21.5/64
Test Frequency	:5320 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	34.36	14.20	48.56	54.00	-5.44
5350.00	Peak	55.05	14.20	69.25	74.00	-4.75

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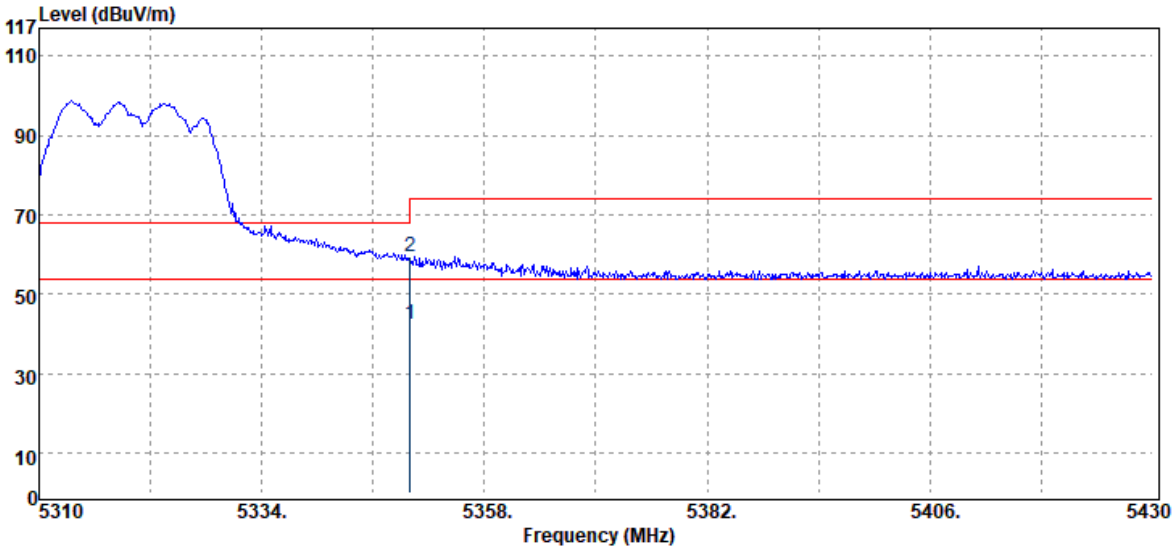
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11a B2	Temp./Humi.	:21.5/64
Test Frequency	:5320 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	28.33	14.20	42.53	54.00	-11.47
5350.00	Peak	45.26	14.20	59.46	74.00	-14.54

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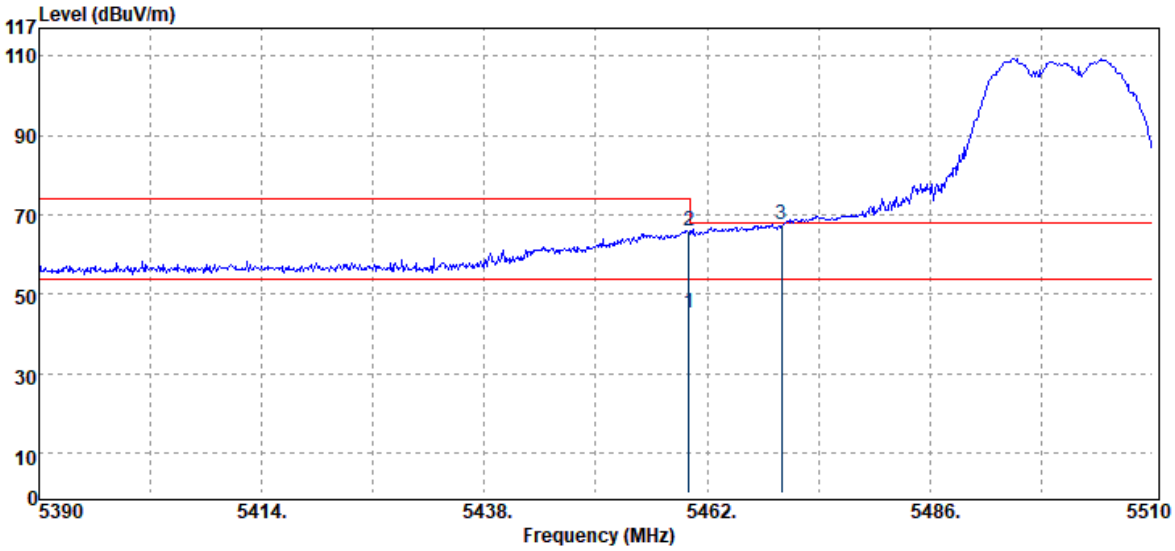
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11a B3	Temp./Humi.	:21.5/64
Test Frequency	:5500 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	30.79	14.57	45.36	54.00	-8.64
5460.00	Peak	51.57	14.57	66.14	74.00	-7.86
5470.00	Peak	52.88	14.61	67.49	68.20	-0.71

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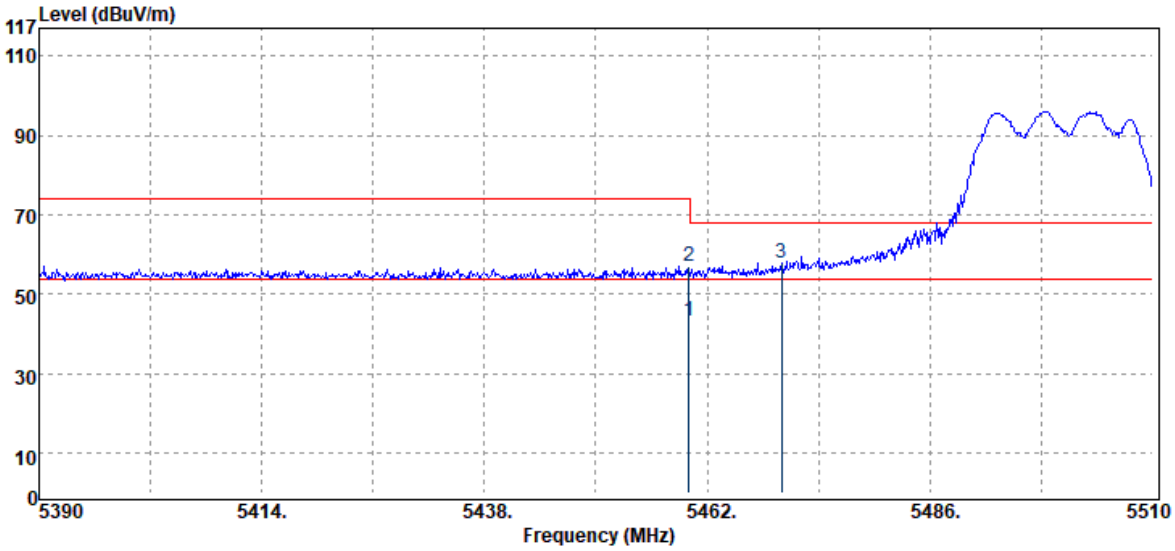
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11a B3	Temp./Humi.	:21.5/64
Test Frequency	:5500 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	28.56	14.57	43.13	54.00	-10.87
5460.00	Peak	42.59	14.57	57.16	74.00	-16.84
5470.00	Peak	43.40	14.61	58.01	68.20	-10.19

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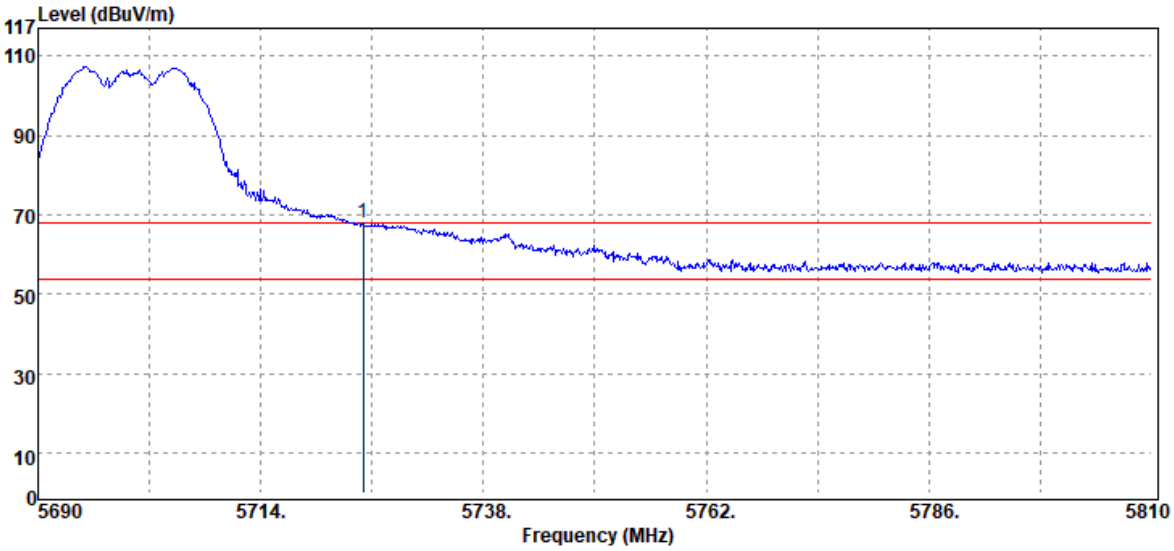
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11a B3	Temp./Humi.	:21.5/64
Test Frequency	:5700 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	52.37	15.48	67.85	68.20	-0.35

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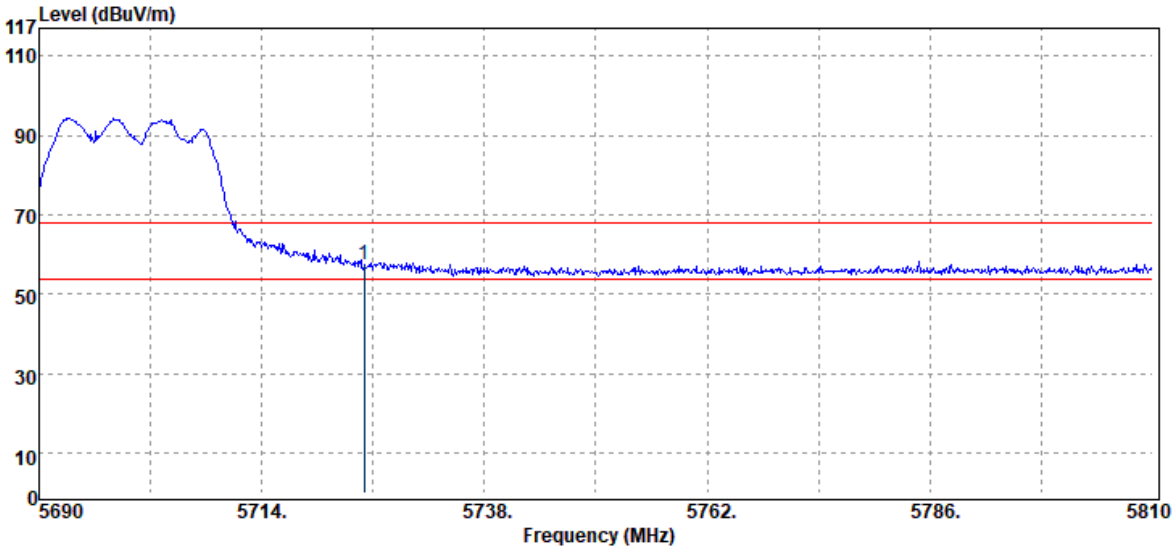
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11a B3	Temp./Humi.	:21.5/64
Test Frequency	:5700 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	42.08	15.48	57.56	68.20	-10.64

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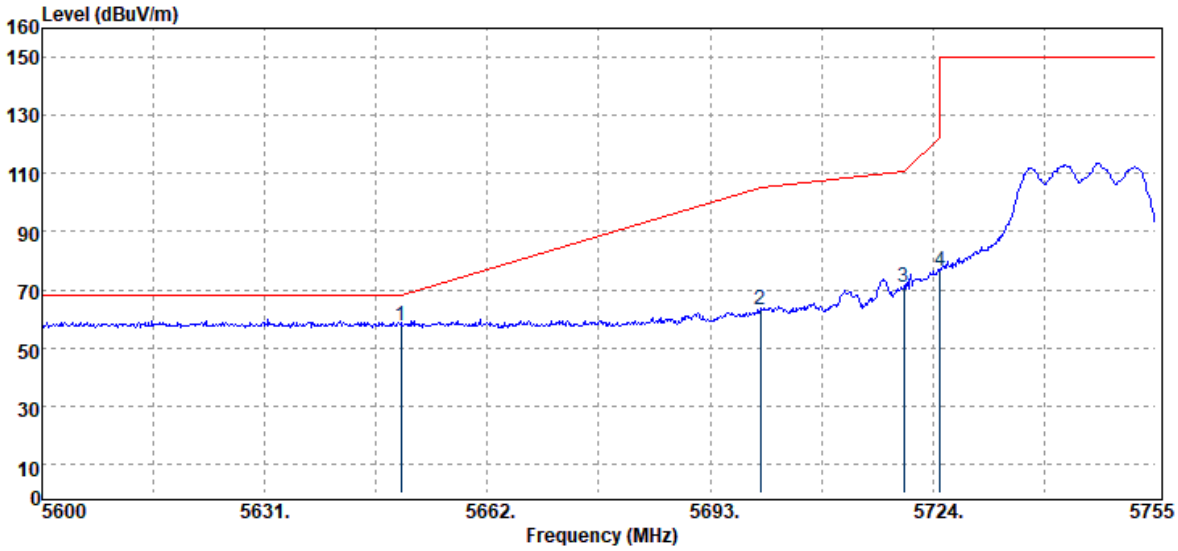
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11a B4	Temp./Humi.	:21.5/64
Test Frequency	:5745MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	42.47	15.16	57.63	68.20	-10.57
5700.00	Peak	47.81	15.42	63.23	105.20	-41.97
5720.00	Peak	55.33	15.47	70.80	110.80	-40.00
5725.00	Peak	61.03	15.48	76.51	122.20	-45.69

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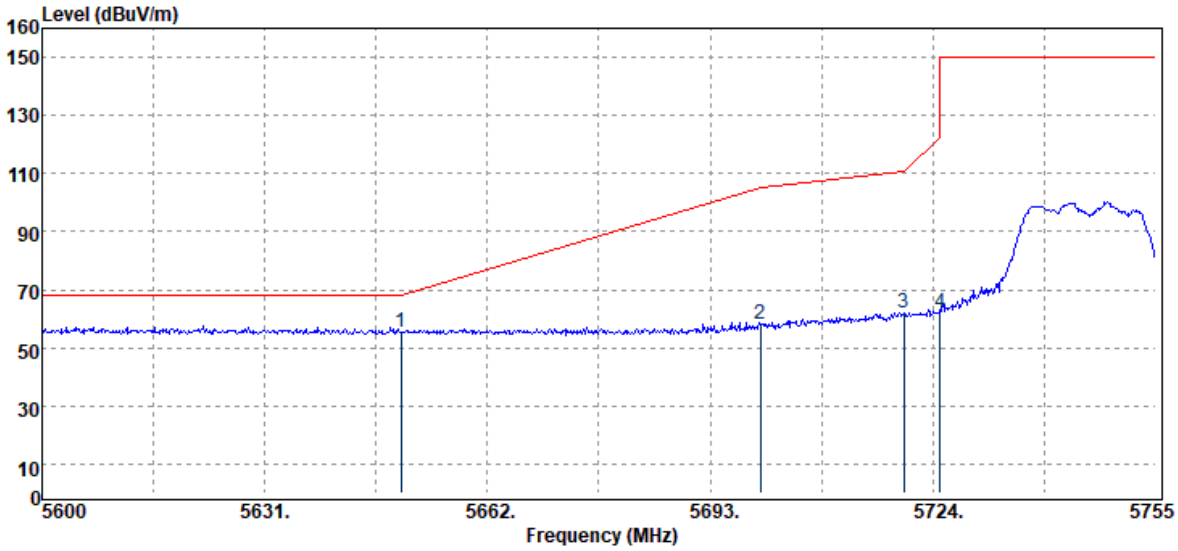
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11a B4	Temp./Humi.	:21.5/64
Test Frequency	:5745MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	40.00	15.16	55.16	68.20	-13.04
5700.00	Peak	42.67	15.42	58.09	105.20	-47.11
5720.00	Peak	46.47	15.47	61.94	110.80	-48.86
5725.00	Peak	46.65	15.48	62.13	122.20	-60.07

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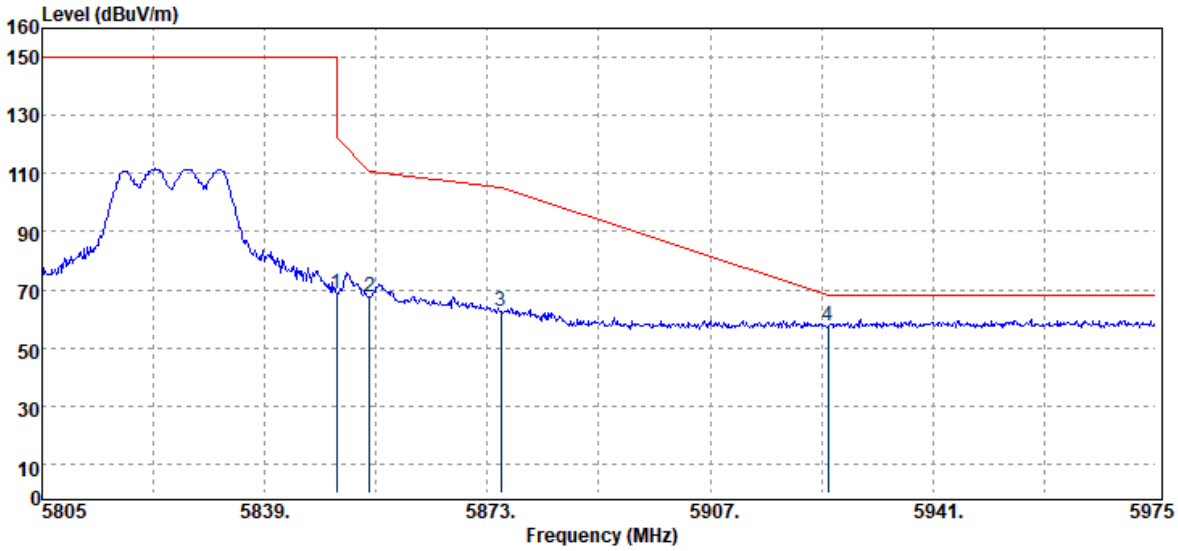
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11a B4	Temp./Humi.	:21.5/64
Test Frequency	:5825 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	52.97	15.75	68.72	122.20	-53.48
5855.00	Peak	51.82	15.75	67.57	110.80	-43.23
5875.00	Peak	46.89	15.75	62.64	105.20	-42.56
5925.00	Peak	41.78	16.06	57.84	68.20	-10.36

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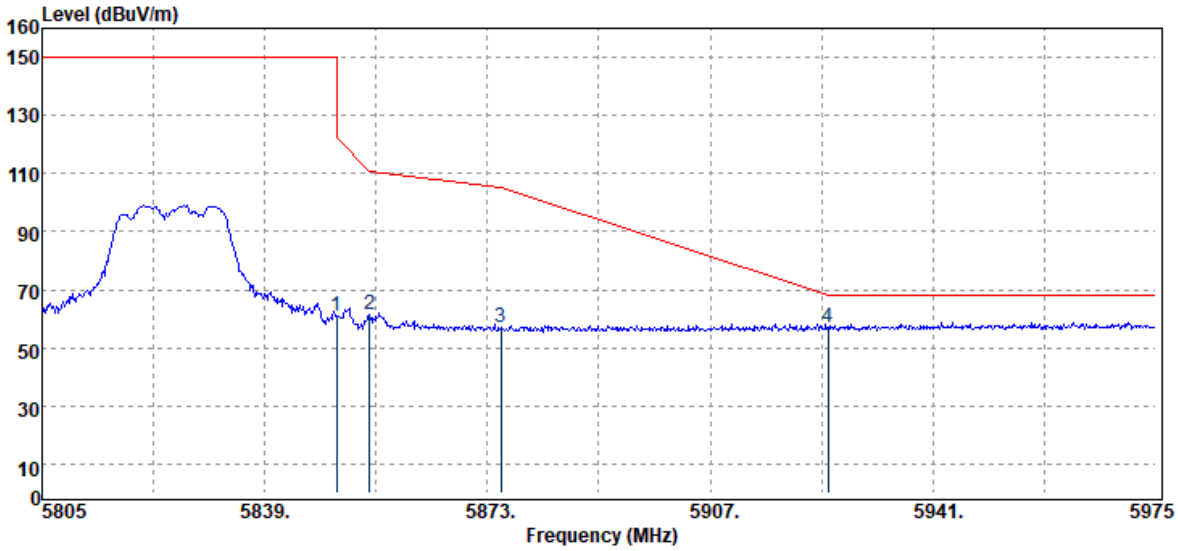
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11a B4	Temp./Humi.	:21.5/64
Test Frequency	:5825 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	45.01	15.75	60.76	122.20	-61.44
5855.00	Peak	45.61	15.75	61.36	110.80	-49.44
5875.00	Peak	41.37	15.75	57.12	105.20	-48.08
5925.00	Peak	41.16	16.06	57.22	68.20	-10.98

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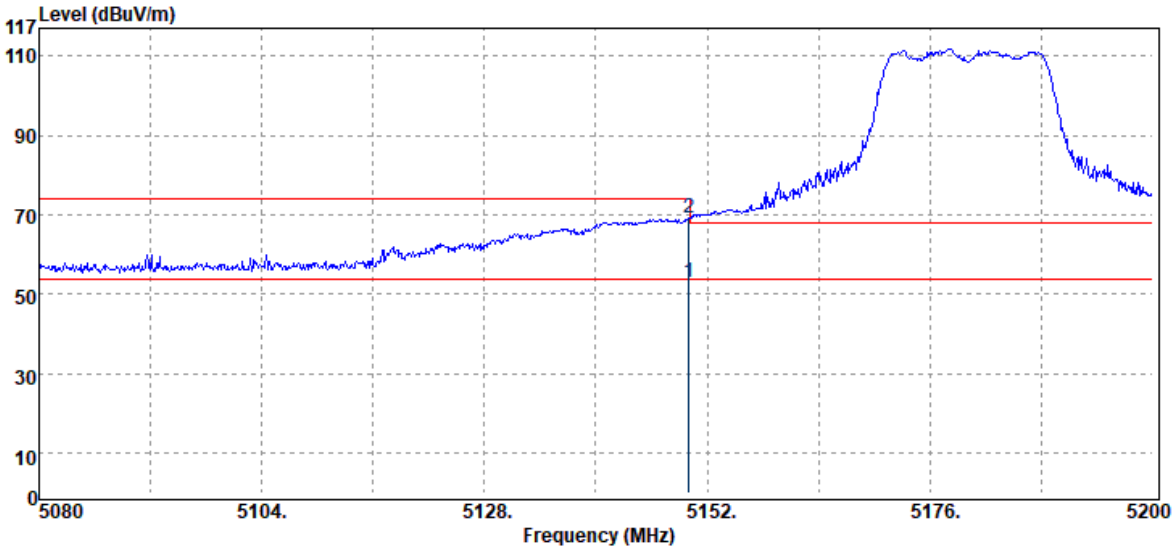
Report Number	:ER/2020/20061	Test Date	:2020-04-07
Operation Mode	:802.11n20 B1	Temp./Humi.	:21.3/64
Test Frequency	:5180 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	38.35	14.83	53.18	54.00	-0.82
5150.00	Peak	54.20	14.83	69.03	74.00	-4.97

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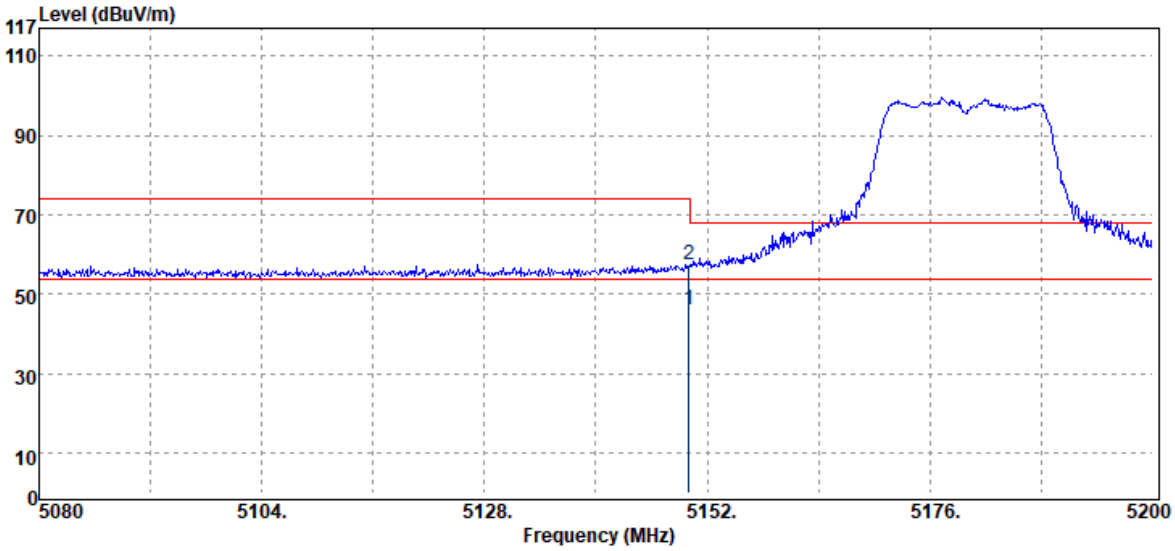
Report Number	:ER/2020/20061	Test Date	:2020-04-07
Operation Mode	:802.11n20 B1	Temp./Humi.	:21.3/64
Test Frequency	:5180 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	31.29	14.83	46.12	54.00	-7.88
5150.00	Peak	42.51	14.83	57.34	74.00	-16.66

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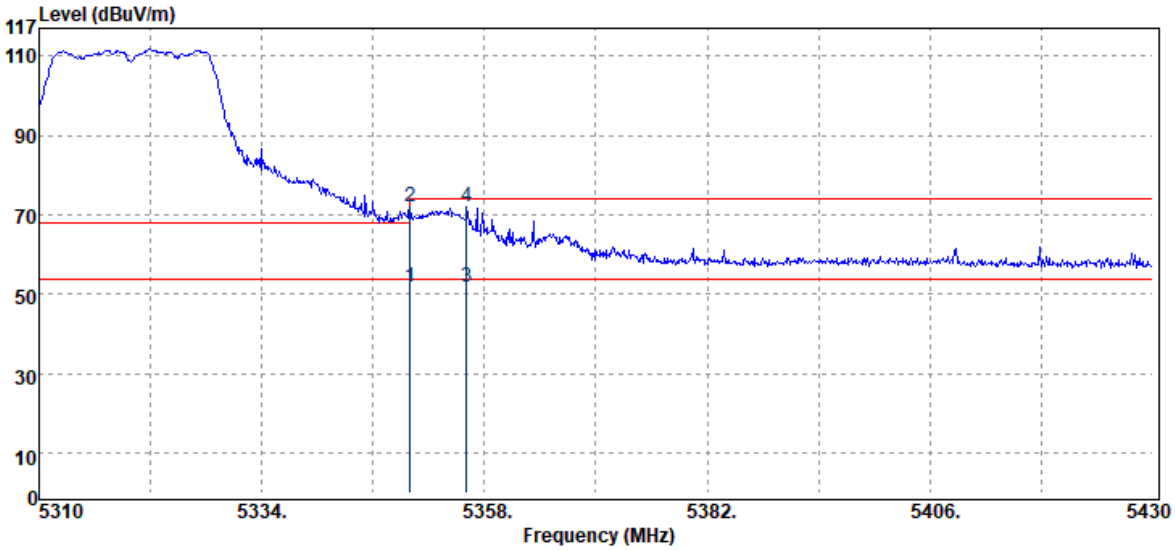
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n20 B2	Temp./Humi.	:21.5/64
Test Frequency	:5320 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	37.73	14.20	51.93	54.00	-2.07
5350.00	Peak	57.90	14.20	72.10	74.00	-1.90
5356.08	Average	37.64	14.27	51.91	54.00	-2.09
5356.08	Peak	57.74	14.27	72.01	74.00	-1.99

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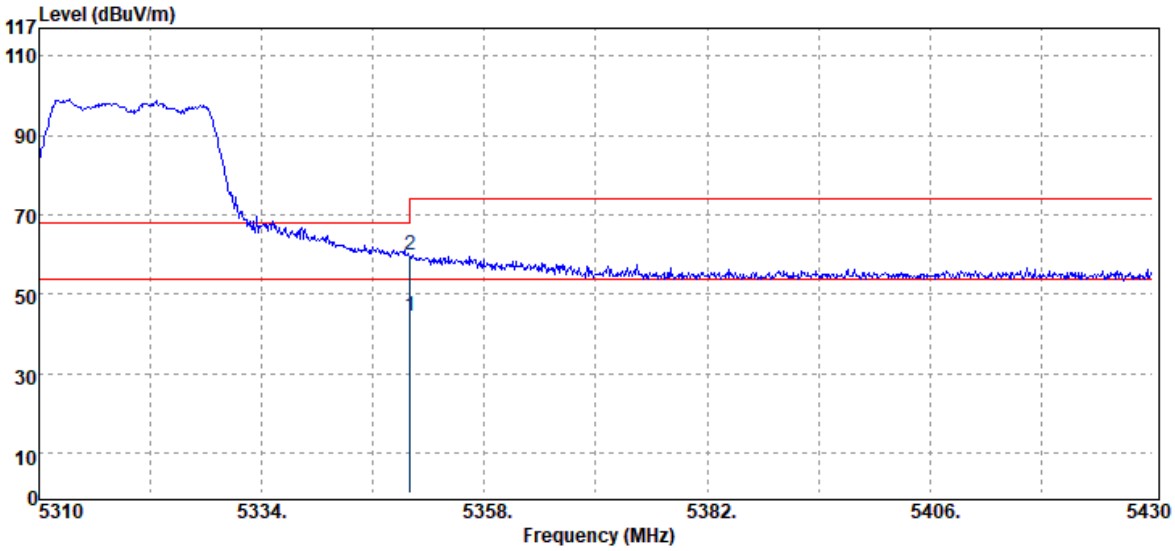
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n20 B2	Temp./Humi.	:21.5/64
Test Frequency	:5320 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	30.37	14.20	44.57	54.00	-9.43
5350.00	Peak	45.69	14.20	59.89	74.00	-14.11

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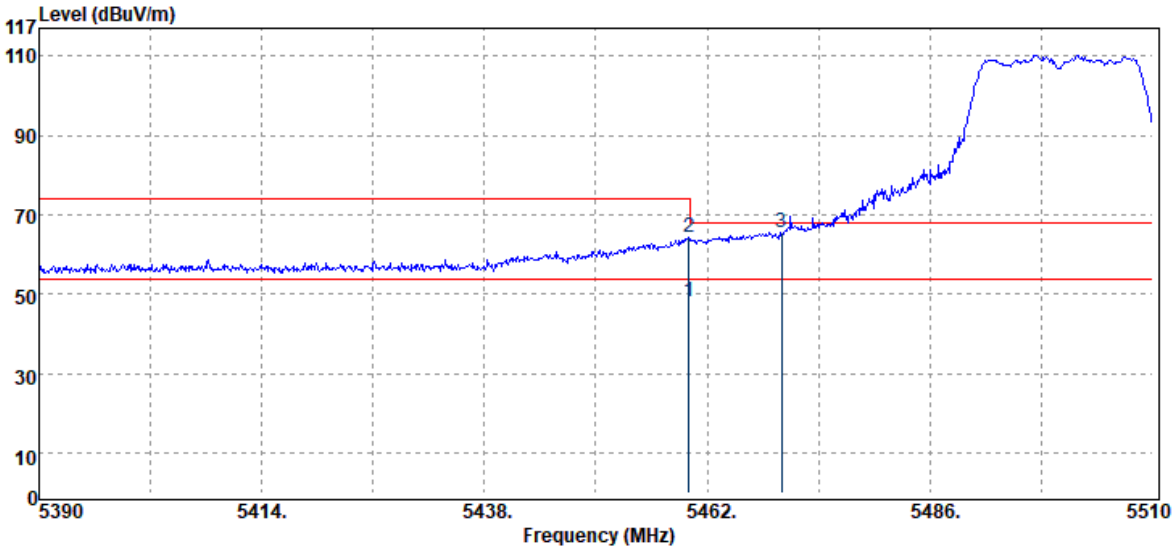
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n20 B3	Temp./Humi.	:21.5/64
Test Frequency	:5500 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	33.71	14.57	48.28	54.00	-5.72
5460.00	Peak	49.84	14.57	64.41	74.00	-9.59
5470.00	Peak	50.98	14.61	65.59	68.20	-2.61

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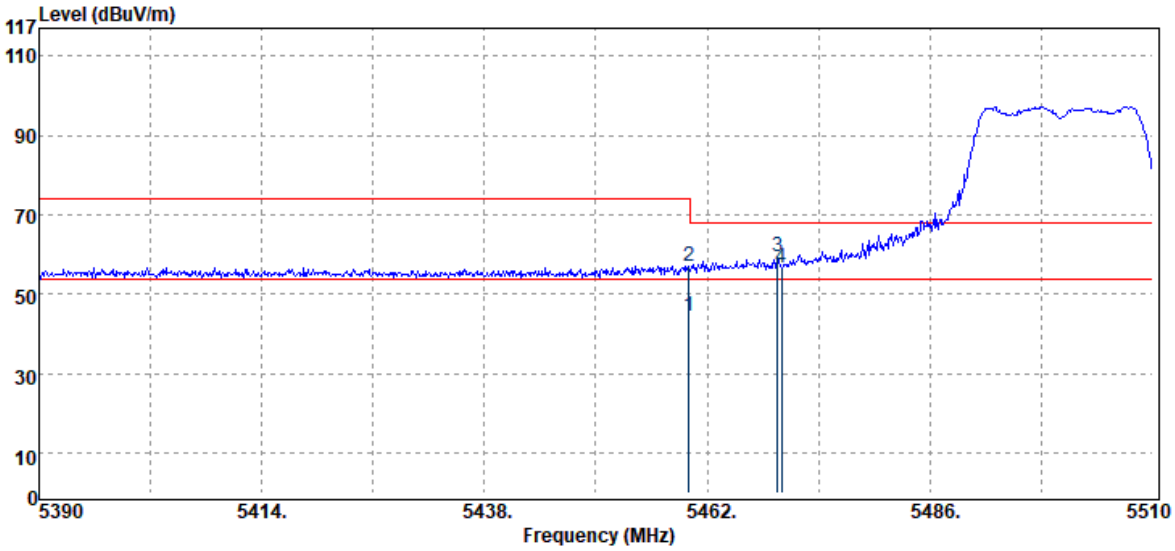
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n20 B3	Temp./Humi.	:21.5/64
Test Frequency	:5500 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	29.92	14.57	44.49	54.00	-9.51
5460.00	Peak	42.49	14.57	57.06	74.00	-16.94
5469.56	Peak	45.05	14.62	59.67	68.20	-8.53
5470.00	Peak	41.91	14.61	56.52	68.20	-11.68

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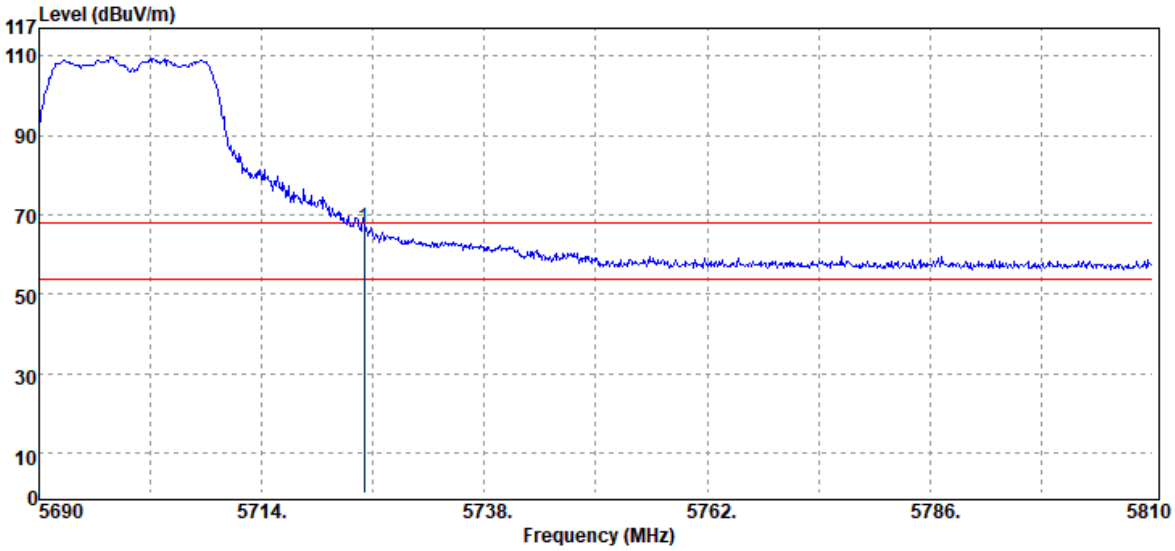
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n20 B3	Temp./Humi.	:21.5/64
Test Frequency	:5700 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	51.47	15.48	66.95	68.20	-1.25

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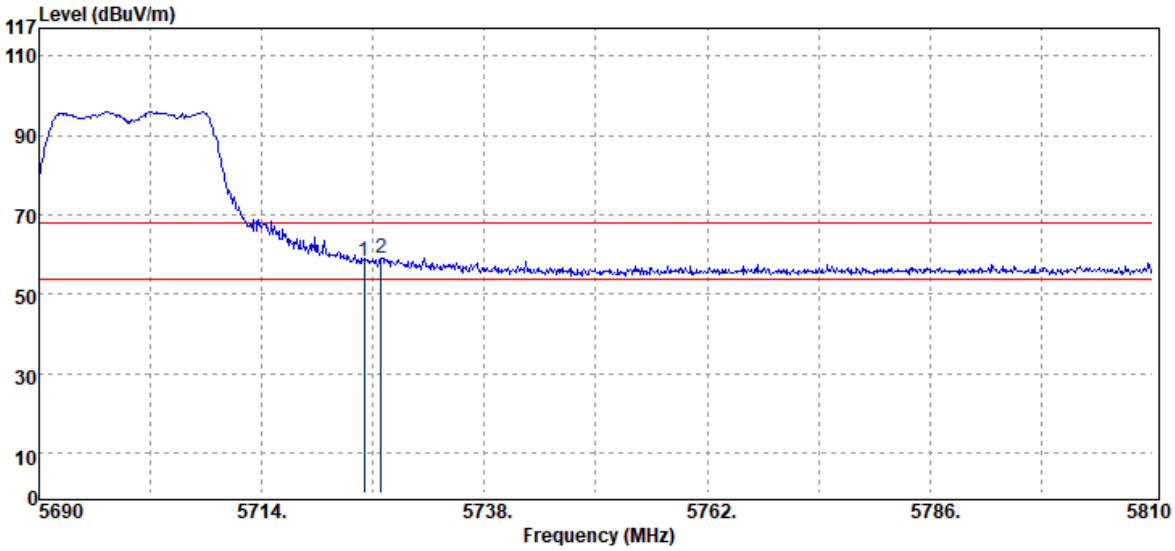
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n20 B3	Temp./Humi.	:21.5/64
Test Frequency	:5700 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	42.82	15.48	58.30	68.20	-9.90
5726.84	Peak	43.64	15.48	59.12	68.20	-9.08

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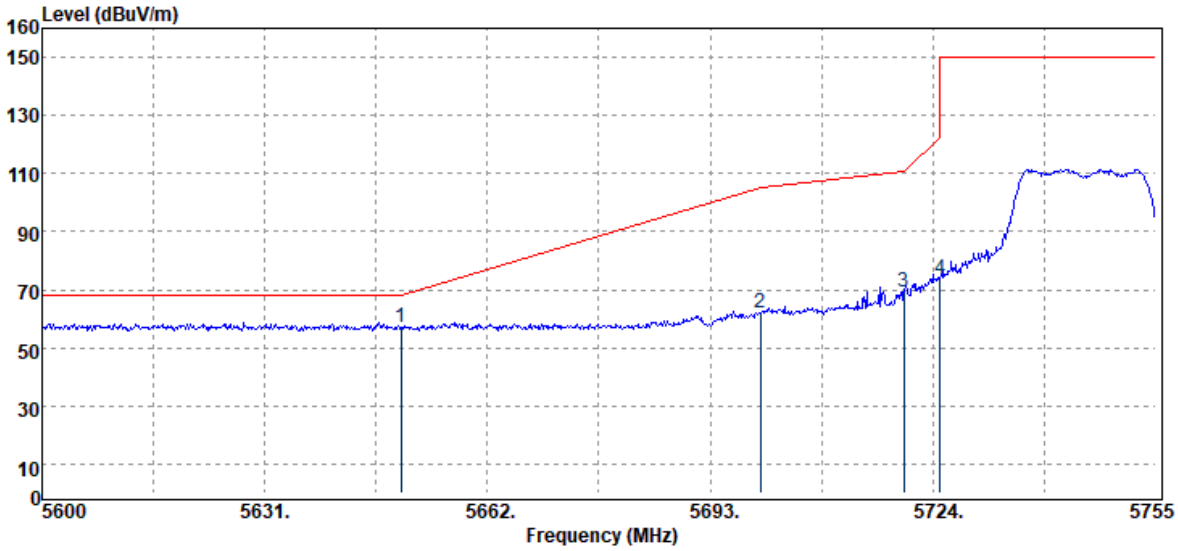
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n20 B4	Temp./Humi.	:21.5/64
Test Frequency	:5745 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	41.96	15.16	57.12	68.20	-11.08
5700.00	Peak	46.66	15.42	62.08	105.20	-43.12
5720.00	Peak	53.87	15.47	69.34	110.80	-41.46
5725.00	Peak	58.43	15.48	73.91	122.20	-48.29

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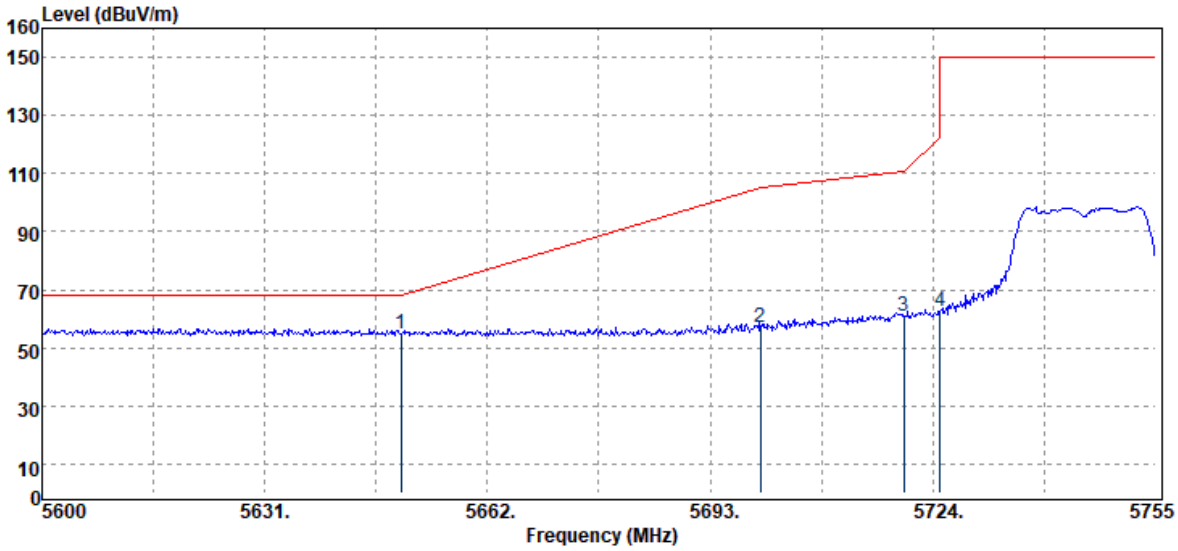
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n20 B4	Temp./Humi.	:21.5/64
Test Frequency	:5745 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	39.81	15.16	54.97	68.20	-13.23
5700.00	Peak	41.36	15.42	56.78	105.20	-48.42
5720.00	Peak	45.66	15.47	61.13	110.80	-49.67
5725.00	Peak	46.87	15.48	62.35	122.20	-59.85

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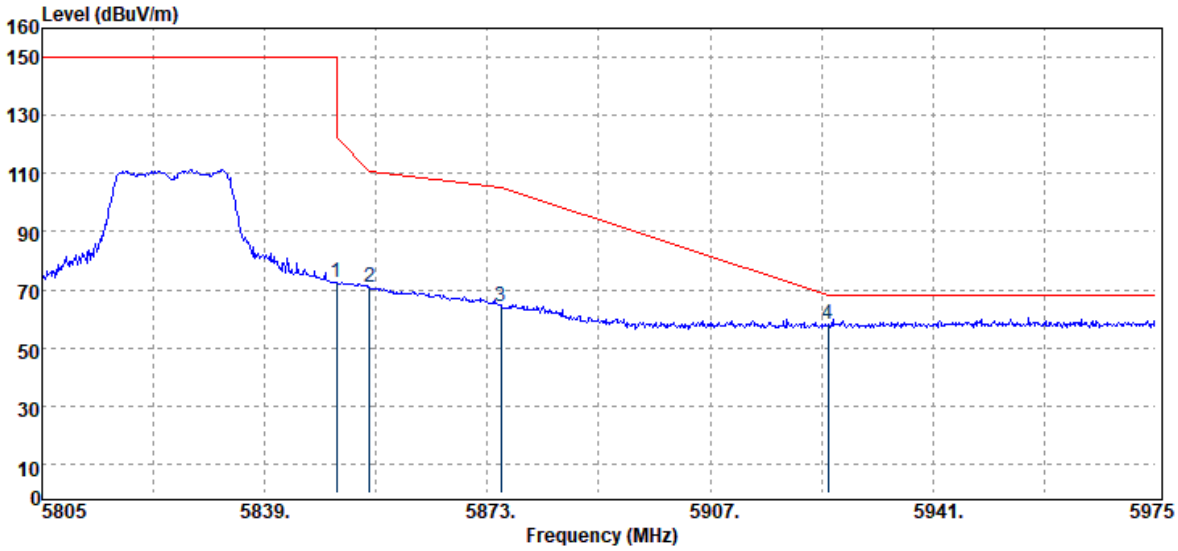
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n20 B4	Temp./Humi.	:21.5/64
Test Frequency	:5825 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	56.51	15.75	72.26	122.20	-49.94
5855.00	Peak	55.01	15.75	70.76	110.80	-40.04
5875.00	Peak	48.25	15.75	64.00	105.20	-41.20
5925.00	Peak	42.26	16.06	58.32	68.20	-9.88

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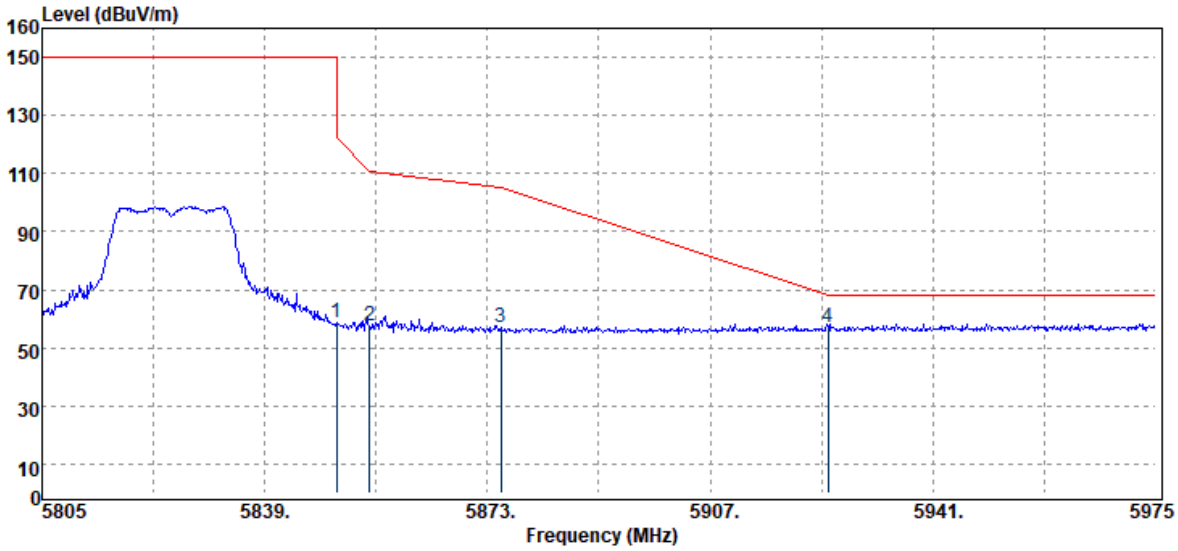
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n20 B4	Temp./Humi.	:21.5/64
Test Frequency	:5825 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	42.84	15.75	58.59	122.20	-63.61
5855.00	Peak	42.05	15.75	57.80	110.80	-53.00
5875.00	Peak	41.37	15.75	57.12	105.20	-48.08
5925.00	Peak	41.11	16.06	57.17	68.20	-11.03

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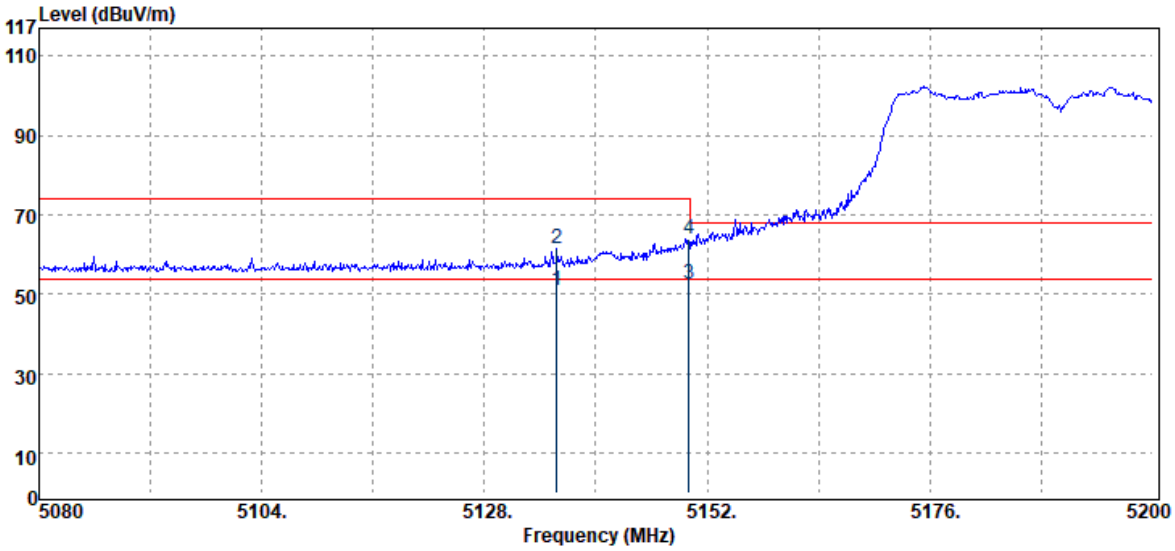
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n40 B1	Temp./Humi.	:21.5/64
Test Frequency	:5190 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5135.80	Average	36.21	14.86	51.07	54.00	-2.93
5135.80	Peak	46.76	14.86	61.62	74.00	-12.38
5150.00	Average	37.78	14.83	52.61	54.00	-1.39
5150.00	Peak	49.03	14.83	63.86	74.00	-10.14

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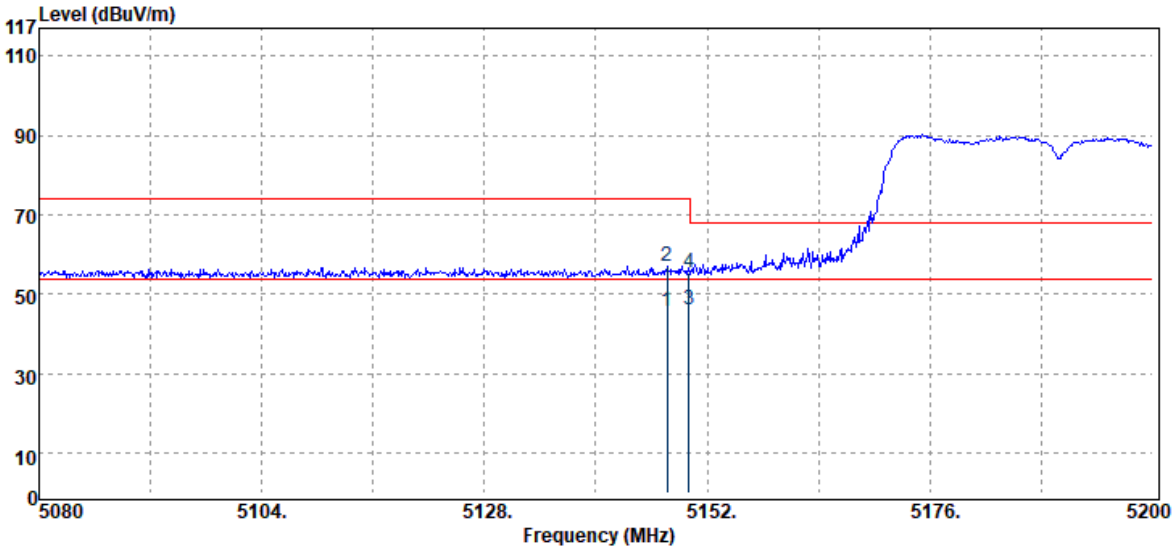
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n40 B1	Temp./Humi.	:21.5/64
Test Frequency	:5190 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5147.68	Average	30.89	14.83	45.72	54.00	-8.28
5147.68	Peak	42.27	14.83	57.10	74.00	-16.90
5150.00	Average	31.14	14.83	45.97	54.00	-8.03
5150.00	Peak	40.66	14.83	55.49	74.00	-18.51

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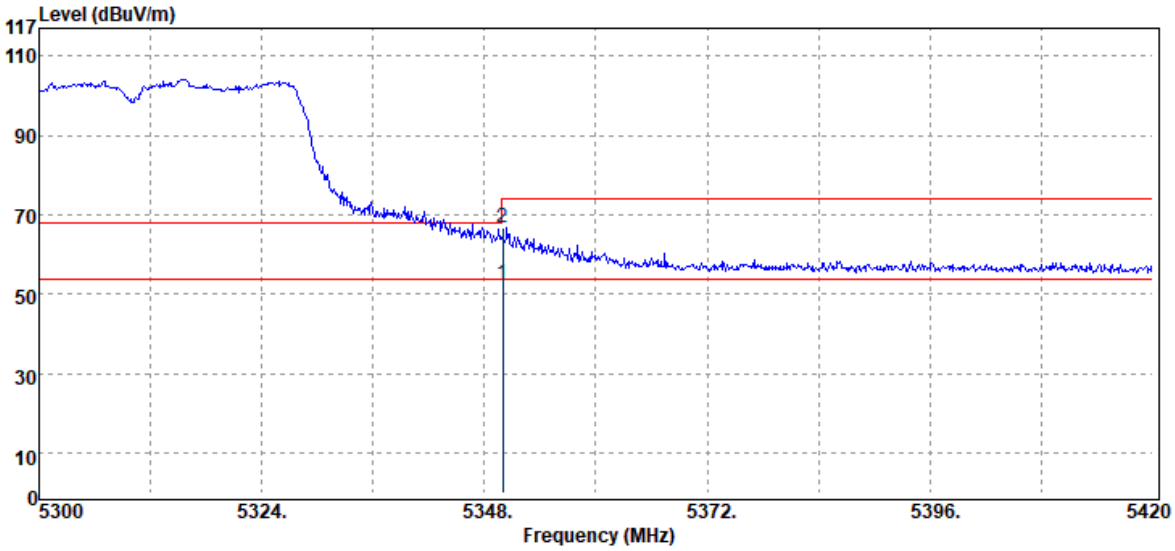
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n40 B2	Temp./Humi.	:21.5/64
Test Frequency	:5310 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	38.52	14.20	52.72	54.00	-1.28
5350.00	Peak	52.70	14.20	66.90	74.00	-7.10

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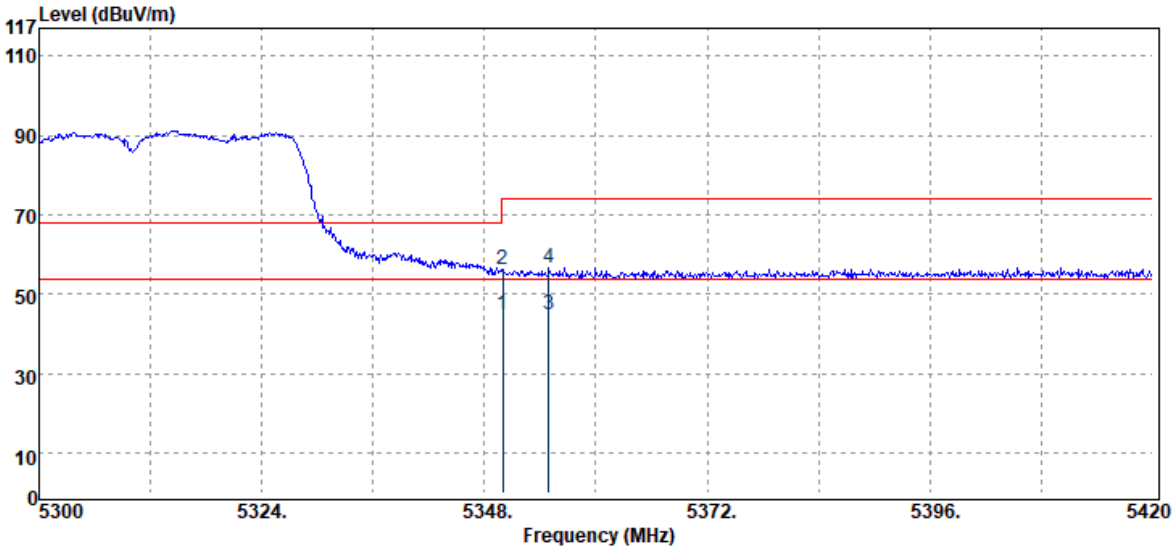
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n40 B2	Temp./Humi.	:21.5/64
Test Frequency	:5310 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	30.87	14.20	45.07	54.00	-8.93
5350.00	Peak	42.11	14.20	56.31	74.00	-17.69
5354.96	Average	30.72	14.25	44.97	54.00	-9.03
5354.96	Peak	42.47	14.25	56.72	74.00	-17.28

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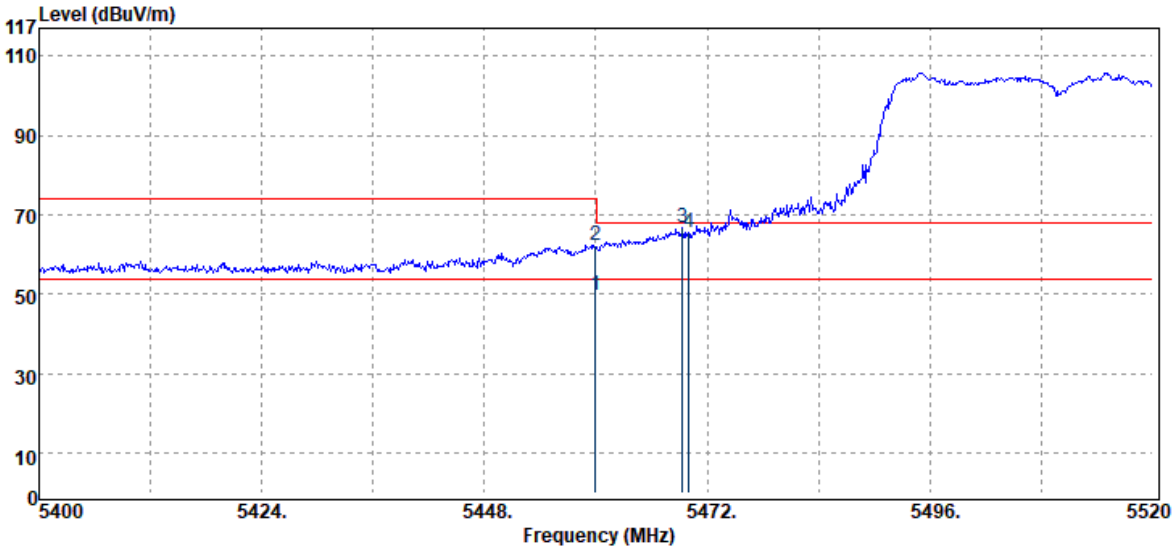
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n40 B3	Temp./Humi.	:21.5/64
Test Frequency	:5510 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	35.03	14.57	49.60	54.00	-4.40
5460.00	Peak	47.86	14.57	62.43	74.00	-11.57
5469.36	Peak	52.30	14.62	66.92	68.20	-1.28
5470.00	Peak	51.16	14.61	65.77	68.20	-2.43

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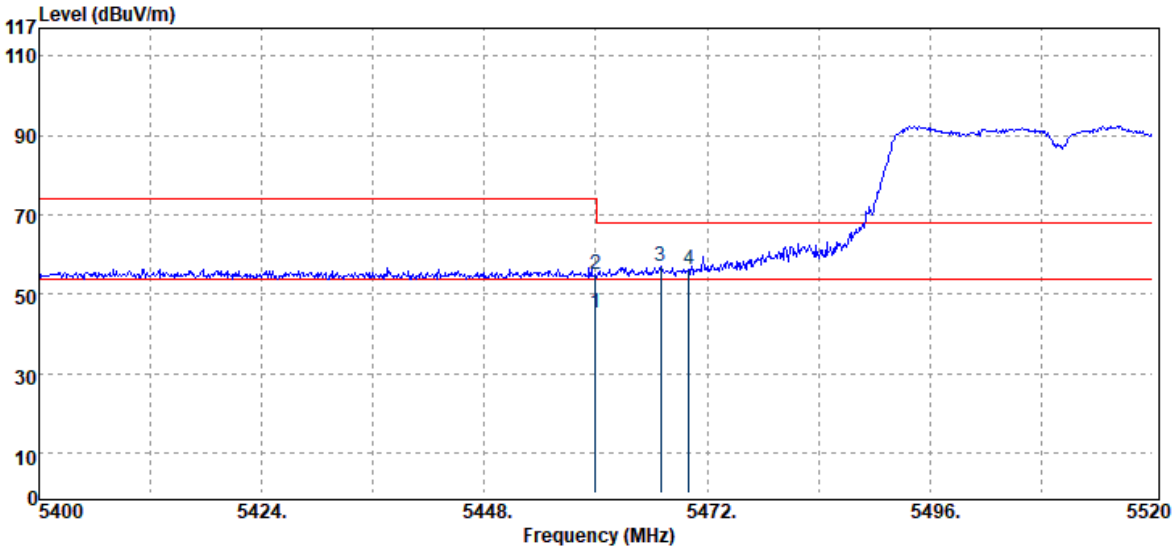
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n40 B3	Temp./Humi.	:21.5/64
Test Frequency	:5510 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	30.92	14.57	45.49	54.00	-8.51
5460.00	Peak	40.51	14.57	55.08	74.00	-18.92
5466.96	Peak	42.28	14.61	56.89	68.20	-11.31
5470.00	Peak	41.85	14.61	56.46	68.20	-11.74

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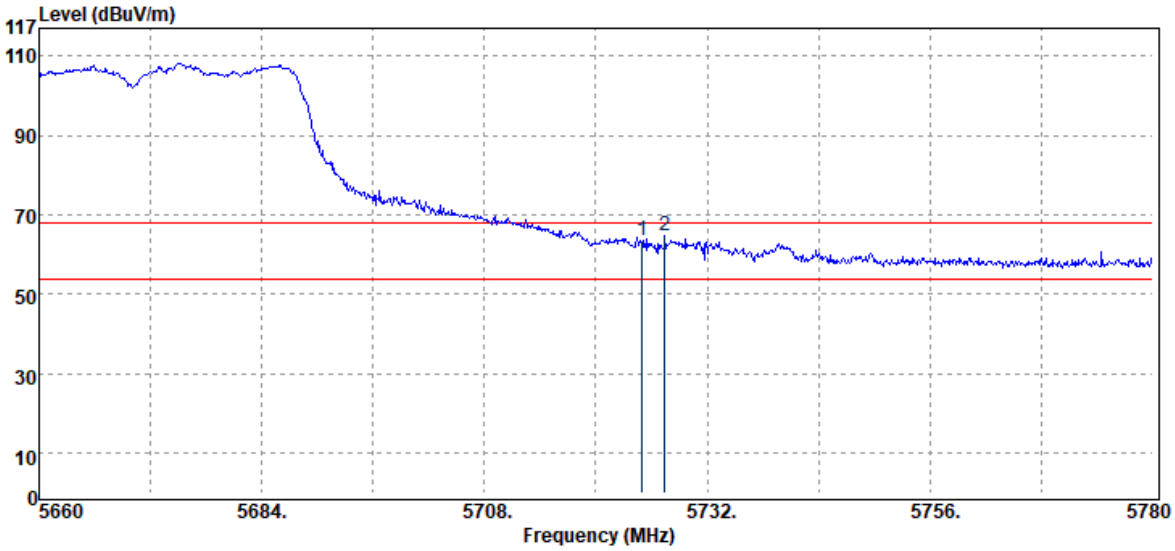
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n40 B3	Temp./Humi.	:21.5/64
Test Frequency	:5670 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	48.07	15.48	63.55	68.20	-4.65
5727.44	Peak	49.30	15.48	64.78	68.20	-3.42

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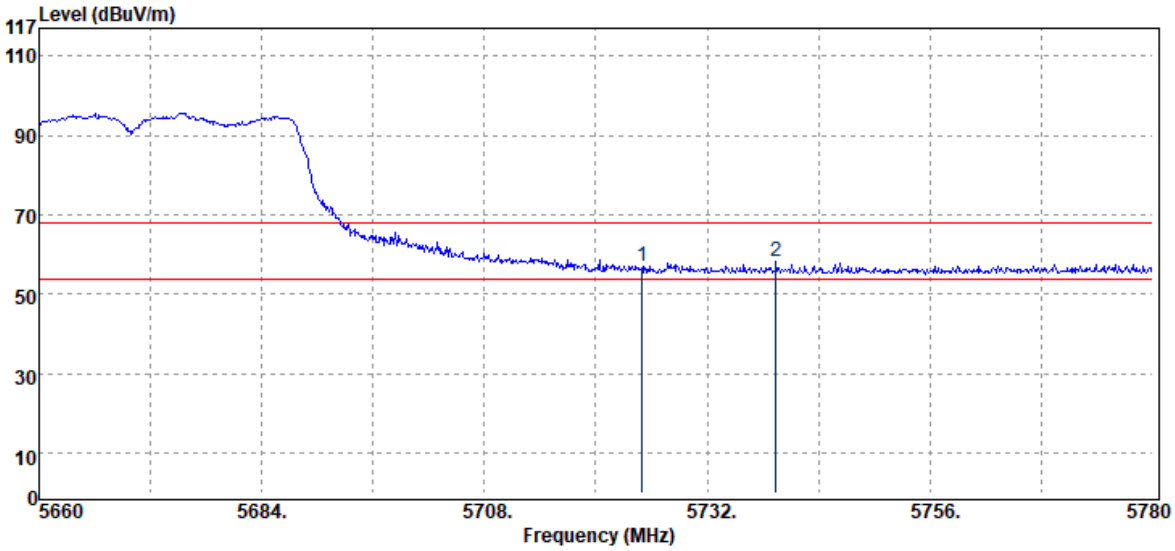
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n40 B3	Temp./Humi.	:21.5/64
Test Frequency	:5670 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	41.48	15.48	56.96	68.20	-11.24
5739.44	Peak	42.81	15.52	58.33	68.20	-9.87

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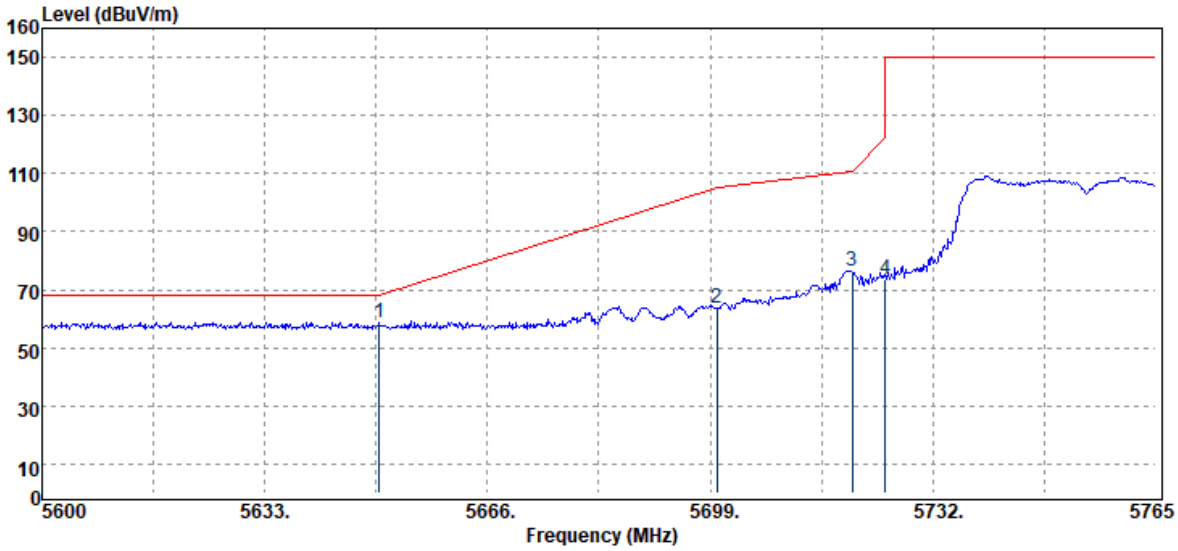
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n40 B4	Temp./Humi.	:21.5/64
Test Frequency	:5755 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	43.62	15.16	58.78	68.20	-9.42
5700.00	Peak	48.32	15.42	63.74	105.20	-41.46
5720.00	Peak	60.89	15.47	76.36	110.80	-34.44
5725.00	Peak	58.40	15.48	73.88	122.20	-48.32

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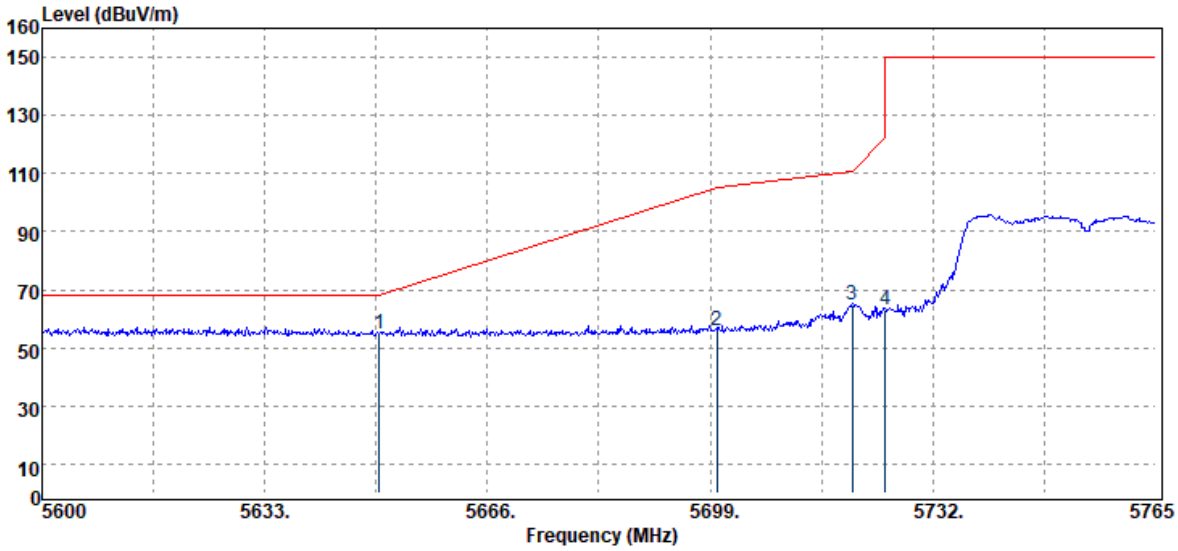
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n40 B4	Temp./Humi.	:21.5/64
Test Frequency	:5755 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	39.52	15.16	54.68	68.20	-13.52
5700.00	Peak	40.30	15.42	55.72	105.20	-49.48
5720.00	Peak	49.11	15.47	64.58	110.80	-46.22
5725.00	Peak	47.47	15.48	62.95	122.20	-59.25

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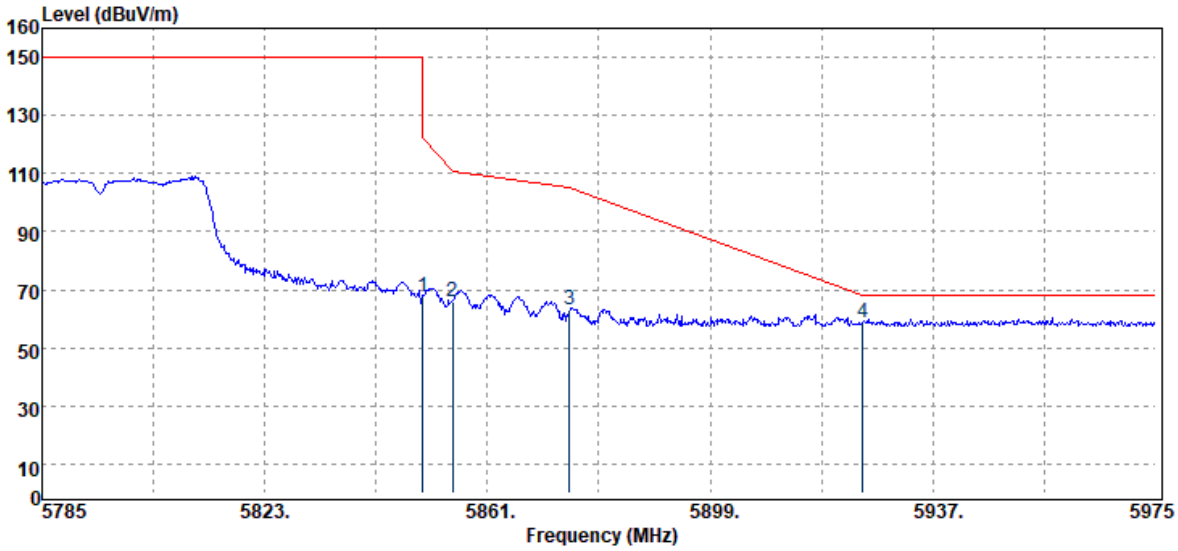
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n40 B4	Temp./Humi.	:21.5/64
Test Frequency	:5825 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	51.85	15.75	67.60	122.20	-54.60
5855.00	Peak	50.15	15.75	65.90	110.80	-44.90
5875.00	Peak	47.44	15.75	63.19	105.20	-42.01
5925.00	Peak	42.86	16.06	58.92	68.20	-9.28

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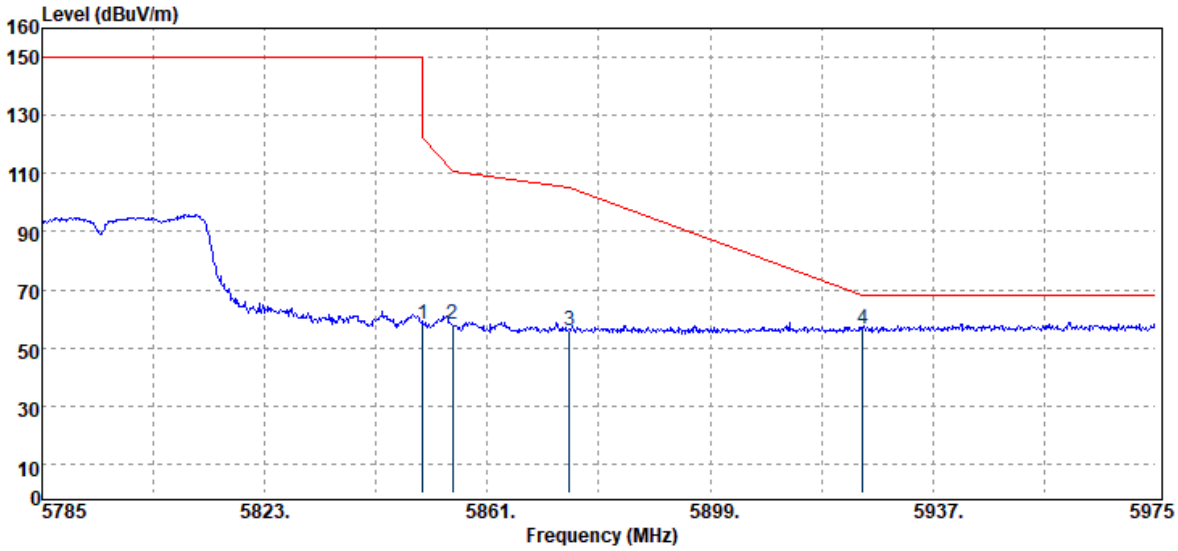
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11n40 B4	Temp./Humi.	:21.5/64
Test Frequency	:5825 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	42.38	15.75	58.13	122.20	-64.07
5855.00	Peak	42.25	15.75	58.00	110.80	-52.80
5875.00	Peak	40.41	15.75	56.16	105.20	-49.04
5925.00	Peak	40.52	16.06	56.58	68.20	-11.62

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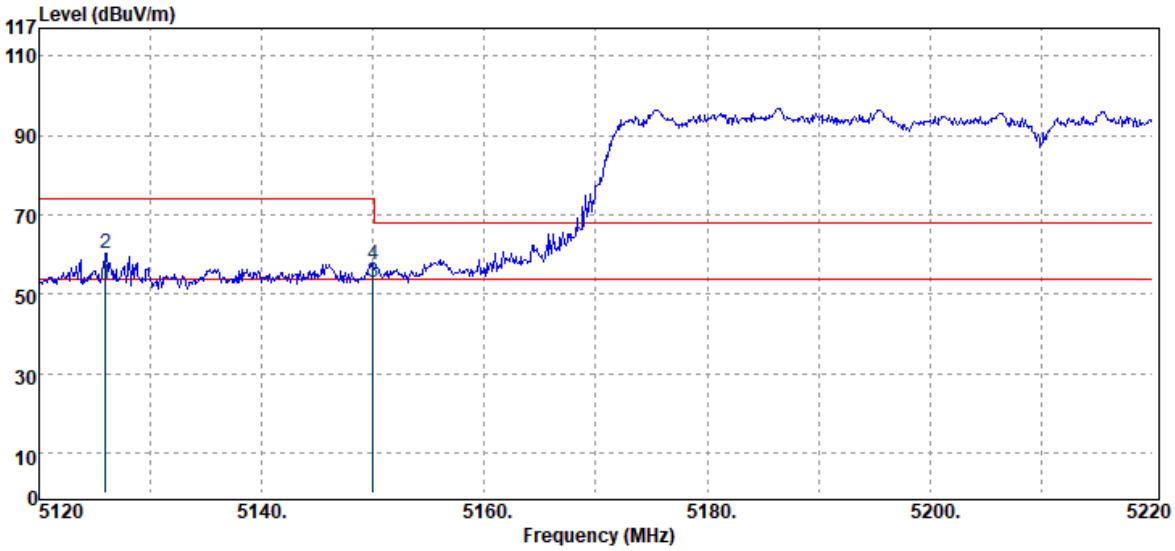
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11ac80 B1	Temp./Humi.	:21.5/64
Test Frequency	:5210 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5126.00	Average	37.82	14.87	52.69	54.00	-1.31
5126.00	Peak	45.62	14.87	60.49	74.00	-13.51
5150.00	Average	38.13	14.83	52.96	54.00	-1.04
5150.00	Peak	42.60	14.83	57.43	74.00	-16.57

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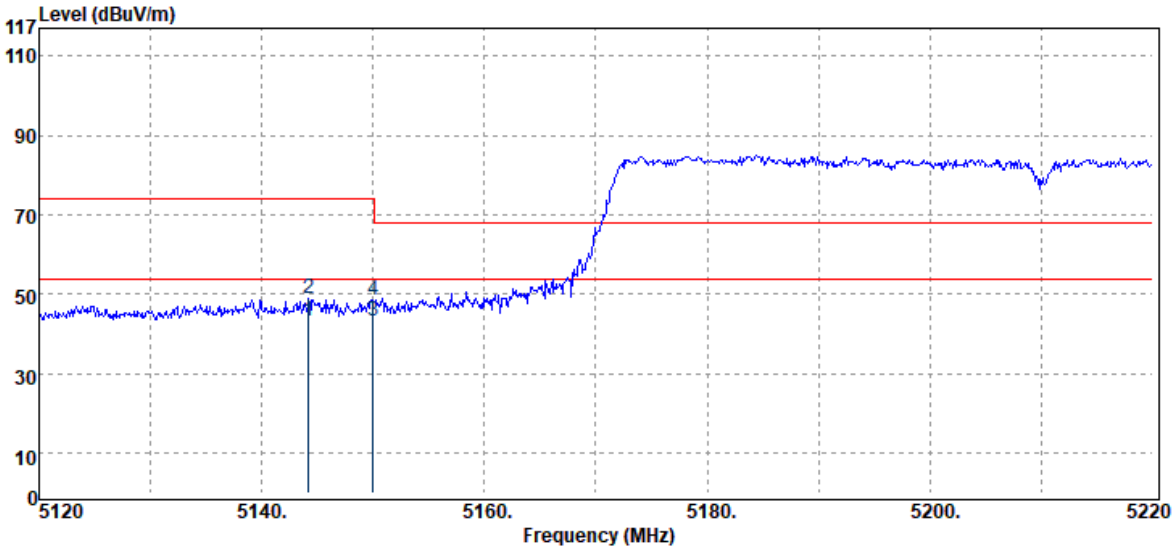
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11ac80 B1	Temp./Humi.	:21.5/64
Test Frequency	:5210 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5144.20	Average	28.37	14.84	43.21	54.00	-10.79
5144.20	Peak	34.14	14.84	48.98	74.00	-25.02
5150.00	Average	28.35	14.83	43.18	54.00	-10.82
5150.00	Peak	33.60	14.83	48.43	74.00	-25.57

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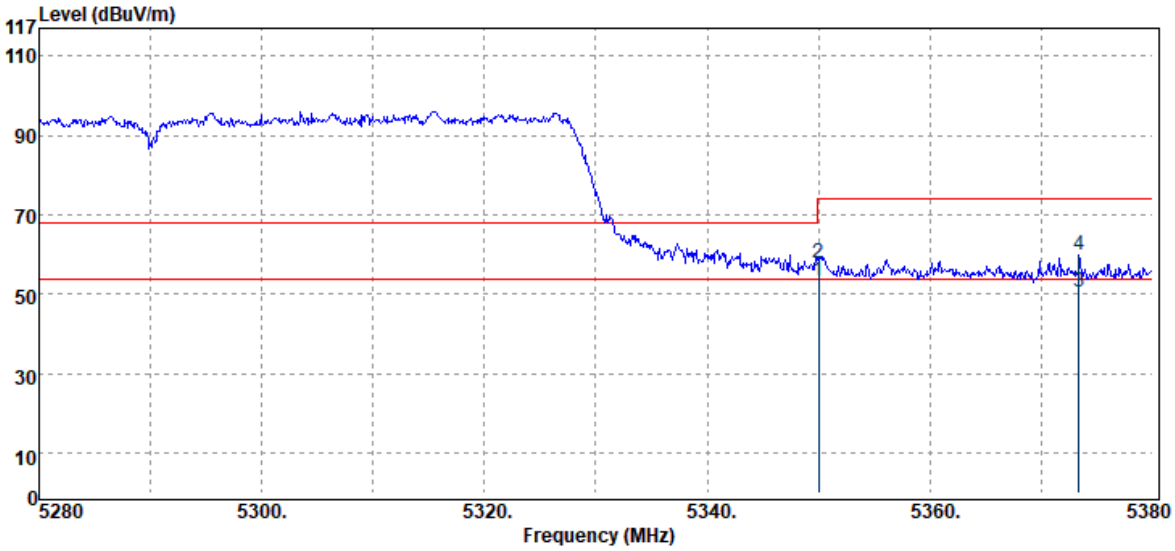
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11ac80 B2	Temp./Humi.	:21.5/64
Test Frequency	:5290 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	39.34	14.20	53.54	54.00	-0.46
5350.00	Peak	43.88	14.20	58.08	74.00	-15.92
5373.40	Average	36.10	14.43	50.53	54.00	-3.47
5373.40	Peak	45.68	14.43	60.11	74.00	-13.89

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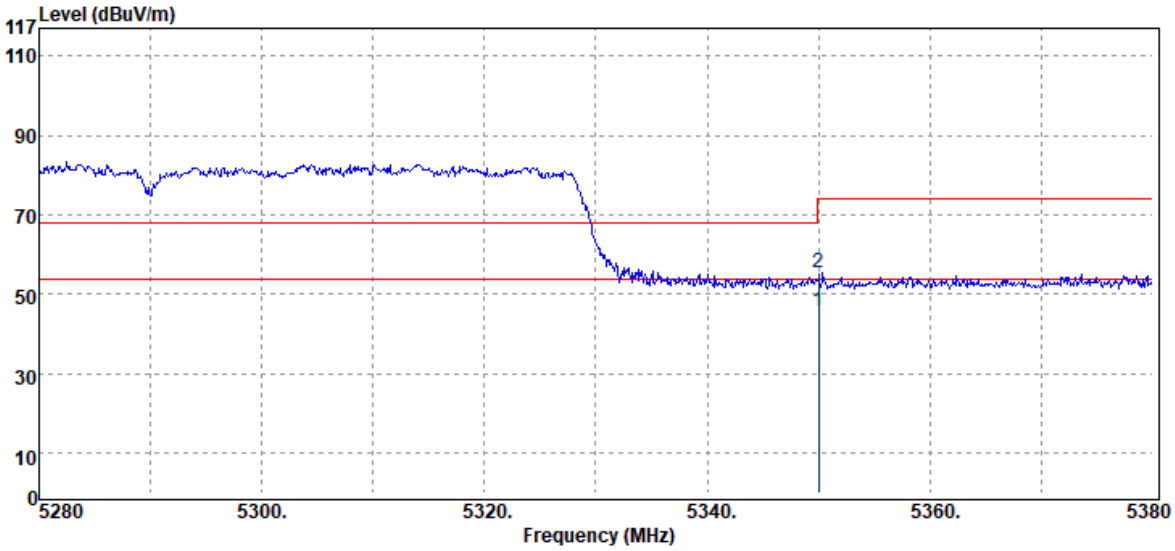
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11ac80 B2	Temp./Humi.	:21.5/64
Test Frequency	:5290 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



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	31.48	14.20	45.68	54.00	-8.32
5350.00	Peak	41.14	14.20	55.34	74.00	-18.66

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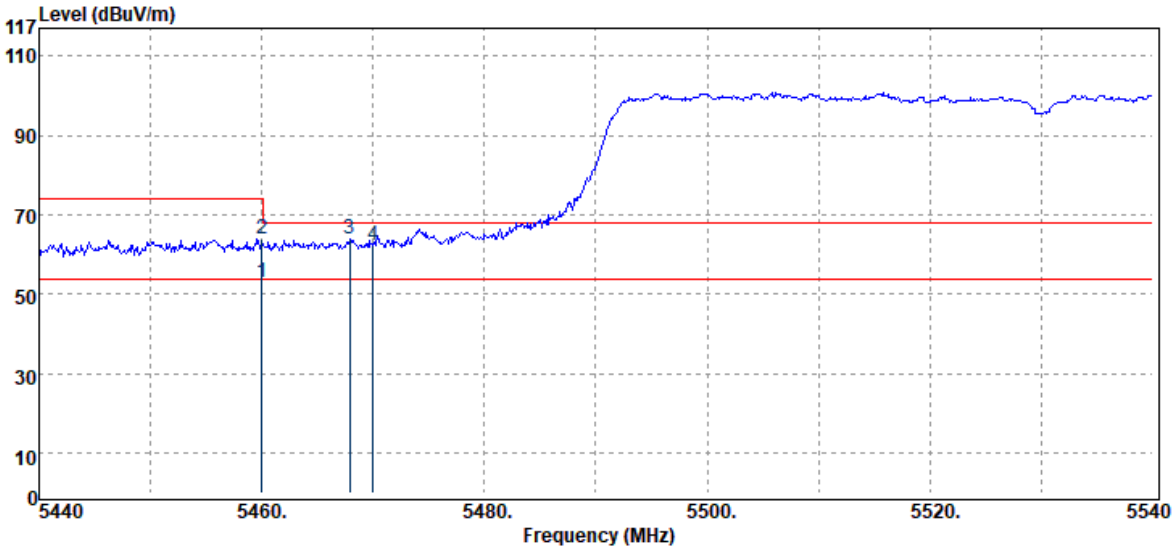
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11ac80 B3	Temp./Humi.	:21.5/64
Test Frequency	:5530 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



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	38.29	14.57	52.86	54.00	-1.14
5460.00	Peak	49.27	14.57	63.84	74.00	-10.16
5467.90	Peak	49.23	14.60	63.83	68.20	-4.37
5470.00	Peak	47.72	14.61	62.33	68.20	-5.87

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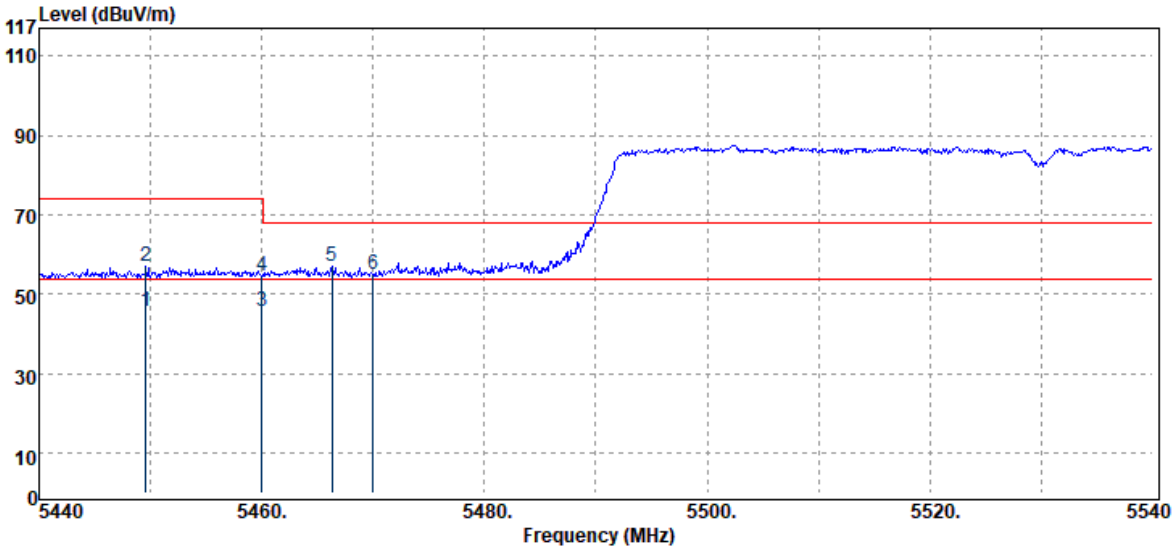
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11ac80 B3	Temp./Humi.	:21.5/64
Test Frequency	:5530 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5449.60	Average	31.25	14.52	45.77	54.00	-8.23
5449.60	Peak	42.47	14.52	56.99	74.00	-17.01
5460.00	Average	31.02	14.57	45.59	54.00	-8.41
5460.00	Peak	40.05	14.57	54.62	74.00	-19.38
5466.30	Peak	42.29	14.60	56.89	68.20	-11.31
5470.00	Peak	40.33	14.61	54.94	68.20	-13.26

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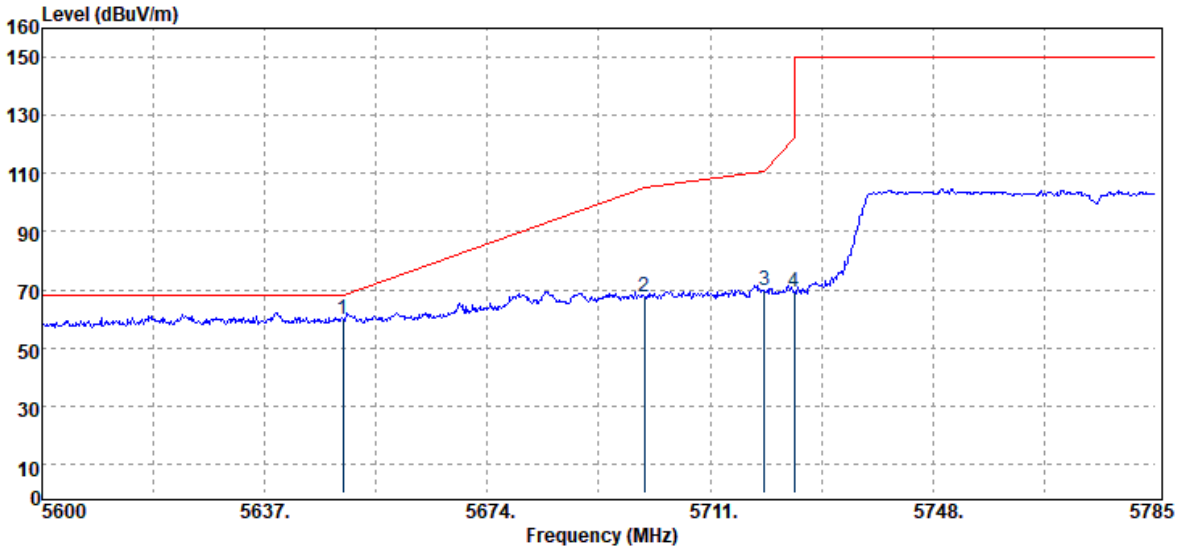
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11ac80 B4	Temp./Humi.	:21.5/64
Test Frequency	:5775 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	44.71	15.16	59.87	68.20	-8.33
5700.00	Peak	52.12	15.42	67.54	105.20	-37.66
5720.00	Peak	54.09	15.47	69.56	110.80	-41.24
5725.00	Peak	53.94	15.48	69.42	122.20	-52.78

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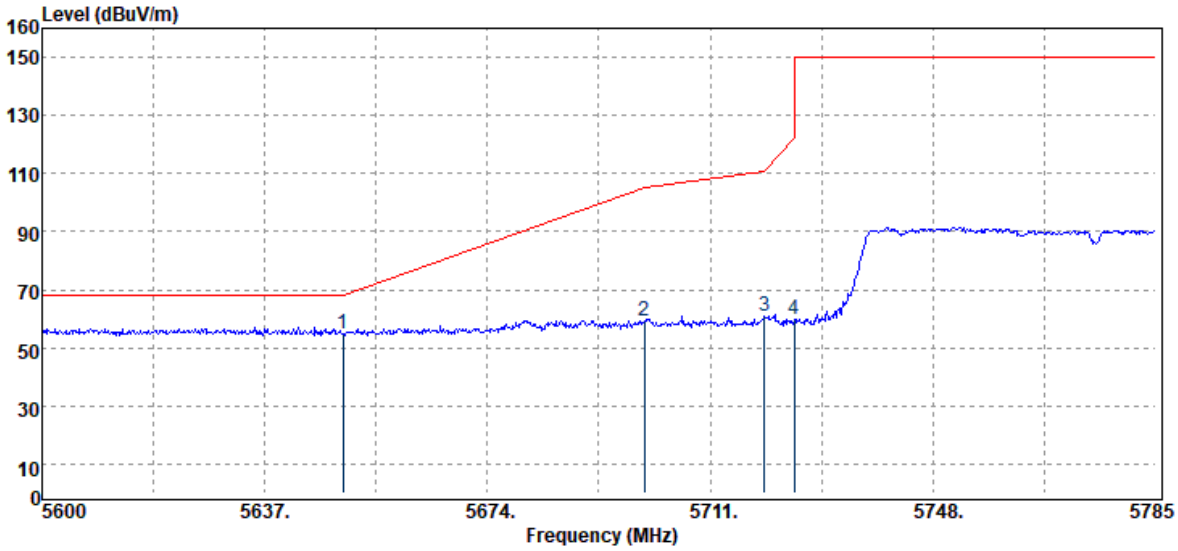
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11ac80 B4	Temp./Humi.	:21.5/64
Test Frequency	:5775 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	39.55	15.16	54.71	68.20	-13.49
5700.00	Peak	44.03	15.42	59.45	105.20	-45.75
5720.00	Peak	45.56	15.47	61.03	110.80	-49.77
5725.00	Peak	44.36	15.48	59.84	122.20	-62.36

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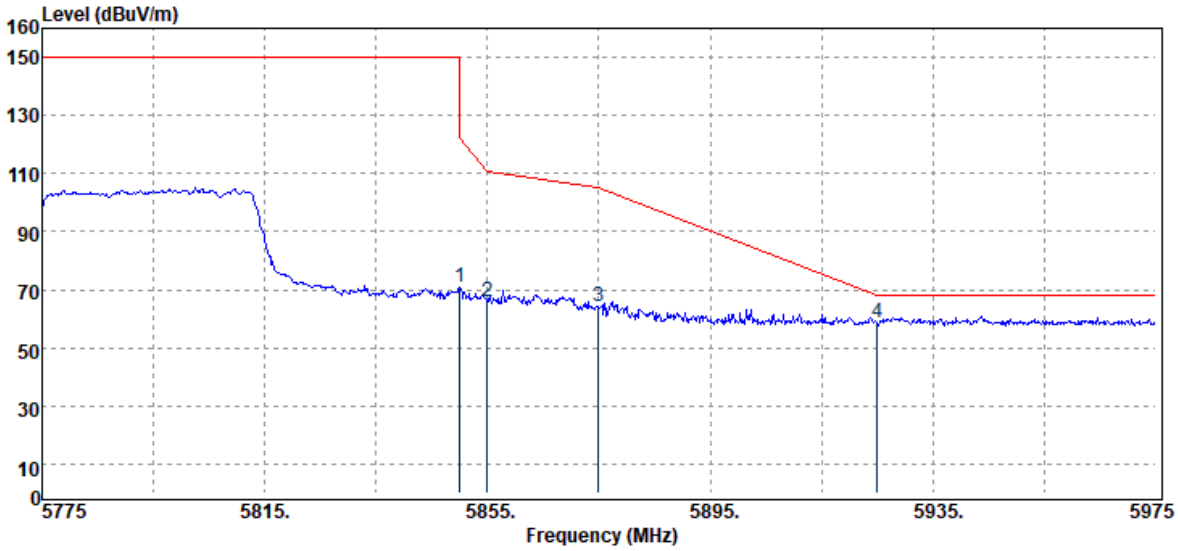
Operation Mode	:802.11ac80 B4	Temp./Humi.	:21.5/64
Test Frequency	:5775 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	55.33	15.75	71.08	122.20	-51.12
5855.00	Peak	50.37	15.75	66.12	110.80	-44.68
5875.00	Peak	48.39	15.75	64.14	105.20	-41.06
5925.00	Peak	42.71	16.06	58.77	68.20	-9.43

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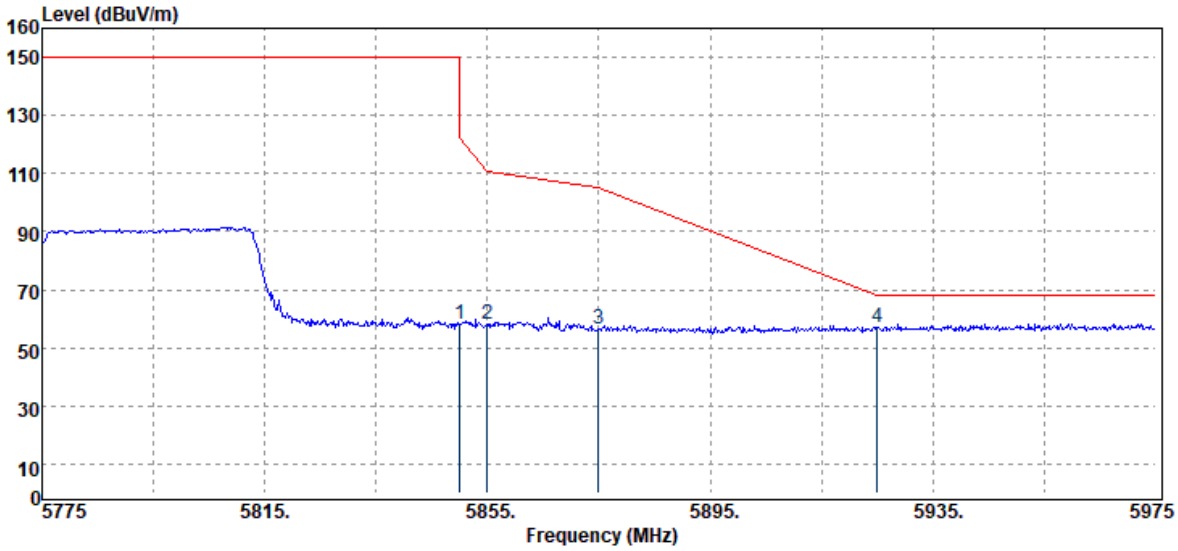
Report Number	:ER/2020/20061	Test Date	:2020-04-08
Operation Mode	:802.11ac80 B4	Temp./Humi.	:21.5/64
Test Frequency	:5775 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH High	Engineer	:Neo
EUT Pol	:H Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	42.65	15.75	58.40	122.20	-63.80
5855.00	Peak	42.48	15.75	58.23	110.80	-52.57
5875.00	Peak	40.48	15.75	56.23	105.20	-48.97
5925.00	Peak	40.71	16.06	56.77	68.20	-11.43

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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

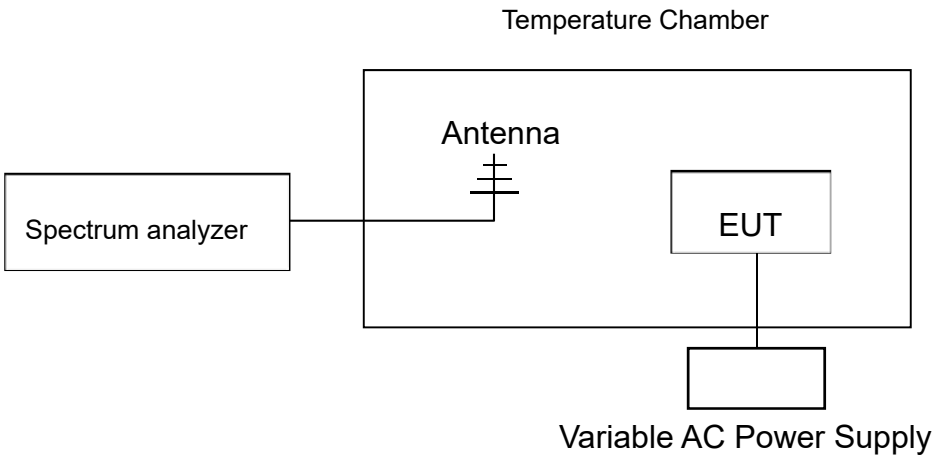
13.1 Standard Applicable

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					
EQUIPMENT TYPE	MFR	MODEL NUM-BER	SERIAL NUM-BER	LAST CAL.	CAL DUE.
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2019	05/16/2020
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021

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13.5 Measurement Result

Start up

Operation Mode	802.11 a	Test Date	2020.04.14
Temperature	: 23.1℃	Test By	Thomas
Humidity	: 50%		

Test Temp.(℃)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.3	36	5180	5,179.99463	0.00000104
	3.6	36	5180	5,179.99295	0.00000136
25	3.8	36	5180	5,180.00373	-0.00000072
45	4.3	36	5180	5,180.00696	-0.00000134
	3.6	36	5180	5,180.00530	-0.00000102

2 minutes

Operation Mode	802.11 a	Test Date	2020.04.14
Temperature	: 23.1℃	Test By	Thomas
Humidity	: 50%		

Test Temp.(℃)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.3	36	5180	5,179.99201	0.00000154
	3.6	36	5180	5,179.99481	0.00000100
25	3.8	36	5180	5,180.00204	-0.00000039
45	4.3	36	5180	5,180.00457	-0.00000088
	3.6	36	5180	5,180.00480	-0.00000093

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5 minutes

Operation Mode	802.11 a	Test Date	2020.04.14
Temperature	: 23.1℃	Test By	Thomas
Humidity	: 50%		

Test Temp.(℃)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.3	36	5180	5,179.99266	0.00000142
	3.6	36	5180	5,179.99055	0.00000182
25	3.8	36	5180	5,179.99963	0.00000007
45	4.3	36	5180	5,180.00735	-0.00000142
	3.6	36	5180	5,180.00801	-0.00000155

10 minutes

Operation Mode	802.11 a	Test Date	2020.04.14
Temperature	: 23.1℃	Test By	Thomas
Humidity	: 50%		

Test Temp.(℃)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.3	36	5180	5,179.99527	0.00000091
	3.6	36	5180	5,179.99440	0.00000108
25	3.8	36	5180	5,180.00076	-0.00000015
45	4.3	36	5180	5,180.00988	-0.00000191
	3.6	36	5180	5,180.00854	-0.00000165

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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 with unique RF connector and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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