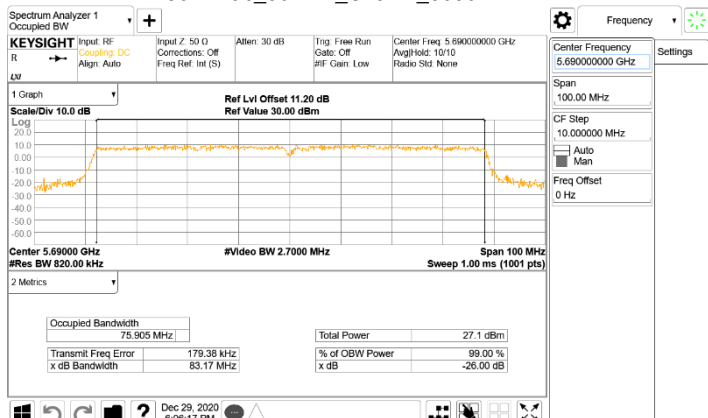
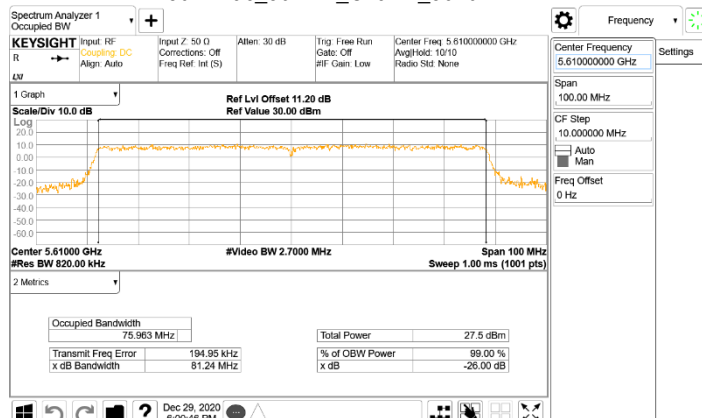


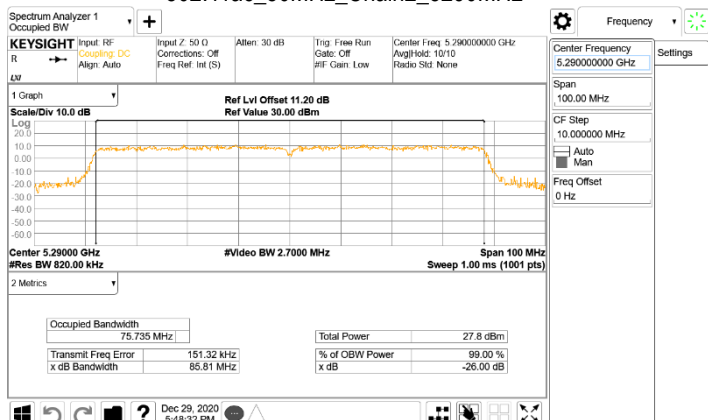
802.11ac_80MHz_Chain1_5690MHz



802.11ac_80MHz_Chain2_5610MHz



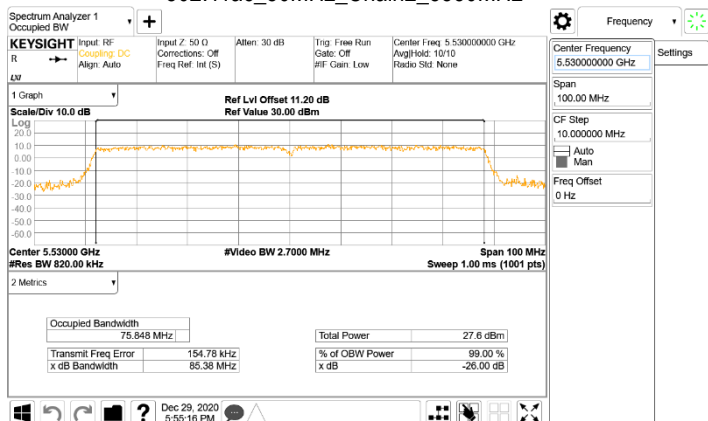
802.11ac_80MHz_Chain2_5290MHz



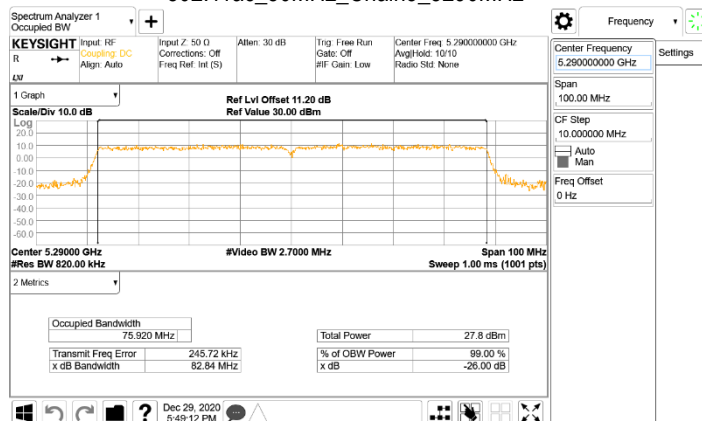
802.11ac_80MHz_Chain2_5690MHz



802.11ac_80MHz_Chain2_5530MHz



802.11ac_80MHz_Chain3_5290MHz

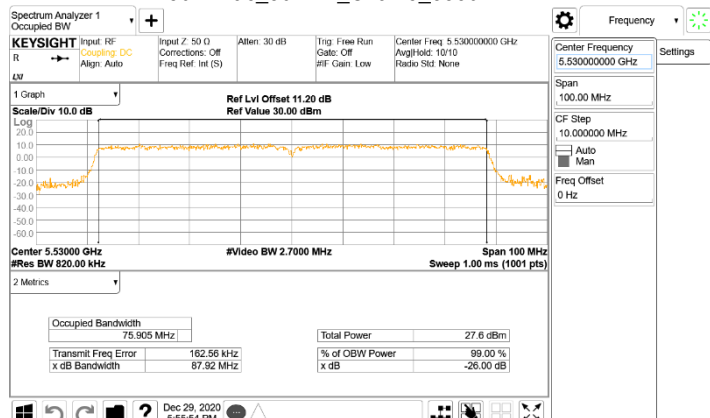


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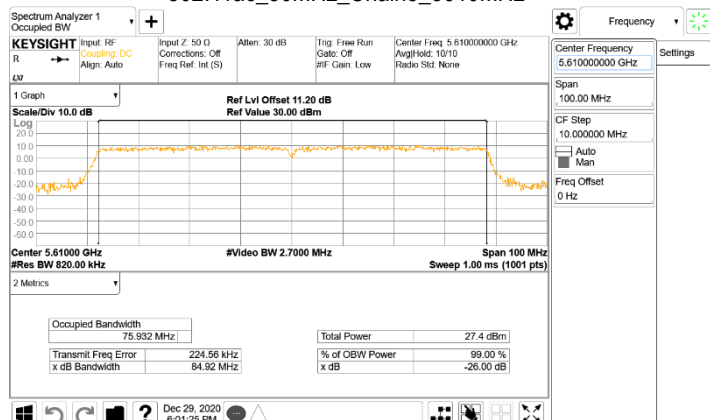
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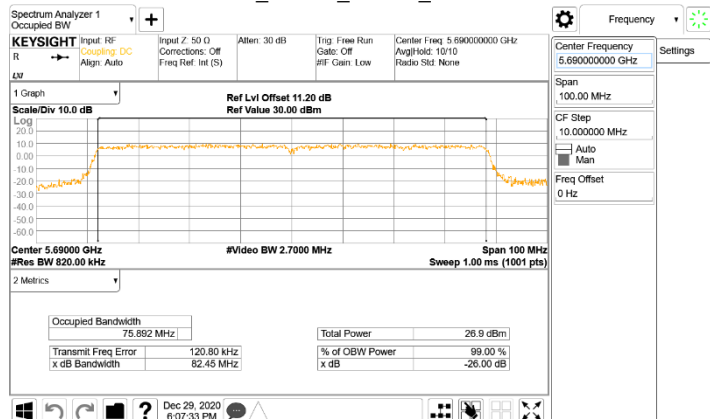
802.11ac_80MHz_Chain3_5530MHz



802.11ac_80MHz_Chain3_5610MHz



802.11ac_80MHz_Chain3_5690MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device)	1 Watt(30dBm)
		Fixed point-to-point Access Ponit	1 Watt(30dBm)
		Mobile and portable client device	250mW(23.98dBm)
U-NII-2A	✓		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	✓		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3			1 Watt(30dBm)
If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.			

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is grater than 6 dBi, therefore the power limit autenuation has been applied in the test results.

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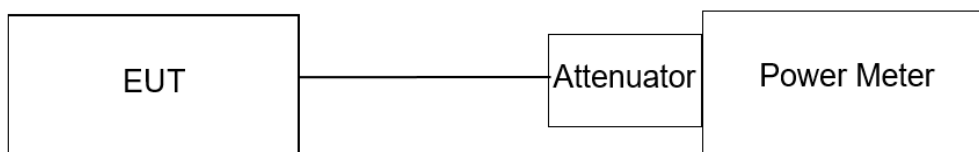
9.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Power Meter	Anritsu	ML2496A	1512003	07/23/2020	07/22/2021
Power Sensor	Anritsu	MA2411B	1339378	07/23/2020	07/22/2021
Power Sensor	Anritsu	MA2411B	1339379	07/23/2020	07/22/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021

9.4 Test Set-up



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9.5 Measurement Result

9.5.1 Conducted output power (FCC)

802.11a_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	6	21.91	155.338	23.98 or $11+10\log(B) = 24.36$	PASS
60	5300	6	21.91	155.338	23.98 or $11+10\log(B) = 24.38$	PASS
64	5320	6	21.94	156.414	23.98 or $11+10\log(B) = 24.30$	PASS
100	5500	6	21.97	157.498	23.98 or $11+10\log(B) = 24.22$	PASS
116	5580	6	21.95	156.775	23.98 or $11+10\log(B) = 24.30$	PASS
140	5700	6	21.98	157.862	23.98 or $11+10\log(B) = 24.29$	PASS
144	5720(U-NII 2C)	6	20.58	114.26	23.98 or $11+10\log(B) = 23.00$	PASS
144	5720 (U-NII 3)	6	16.25	42.15	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2	CH3				
52	5260	MCS0	13.45	14.77	13.92	13.88	20.28	106.544	21.05 or $11+10\log(B) = 24.25$	PASS
60	5300	MCS0	13.51	14.98	13.78	13.76	20.29	106.908	21.05 or $11+10\log(B) = 24.27$	PASS
64	5320	MCS0	13.37	14.9	13.82	13.76	20.24	105.787	21.05 or $11+10\log(B) = 24.25$	PASS
100	5500	MCS0	13.7	14.8	13.92	13.9	20.34	108.262	21.15 or $11+10\log(B) = 24.26$	PASS
116	5580	MCS0	13.57	14.77	13.84	13.76	20.25	106.022	21.15 or $11+10\log(B) = 24.25$	PASS
140	5700	MCS0	13.56	14.53	13.99	13.82	20.23	105.514	21.15 or $11+10\log(B) = 24.24$	PASS
144	5720(U-NII 2C)	MCS0	12.40	13.09	12.65	12.46	18.90	77.584	21.15 or $11+10\log(B) = 23.00$	PASS
144	5720 (U-NII 3)	MCS0	8.10	8.82	8.34	8.13	14.60	28.819	27.05	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2	CH3				
54	5270	MCS0	13.41	14.89	13.72	13.63	20.38	109.206	21.05 or $11+10\log(B) = 26.98$	PASS
62	5310	MCS0	13.55	14.91	13.67	13.57	20.39	109.508	21.05 or $11+10\log(B) = 26.96$	PASS
102	5510	MCS0	13.86	14.54	14.09	13.94	20.55	113.391	21.15 or $11+10\log(B) = 26.97$	PASS
110	5550	MCS0	13.77	14.49	14.11	14.02	20.54	113.121	21.15 or $11+10\log(B) = 27.03$	PASS
134	5670	MCS0	13.59	14.29	14.01	13.88	20.38	109.143	21.15 or $11+10\log(B) = 26.99$	PASS
142	5710(U-NII 2C)	MCS0	13.08	13.54	13.43	13.37	19.79	95.227	21.15 or $11+10\log(B) = 26.48$	PASS
142	5720 (U-NII 3)	MCS0	4.94	6.24	5.65	5.17	11.96	15.708	27.05	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2	CH3				
58	5290	MCS0	13.74	14.52	13.99	14.02	20.37	108.797	21.05 or $11+10\log(B) = 30.08$	PASS
106	5530	MCS0	13.76	14.43	14.04	13.96	20.34	108.236	21.15 or $11+10\log(B) = 30.13$	PASS
122	5610	MCS0	13.68	14.49	14.11	14.18	20.41	109.999	21.15 or $11+10\log(B) = 30.08$	PASS
138	5690(U-NII 2C)	MCS0	13.53	14.46	13.92	14.01	20.28	106.751	21.15 or $11+10\log(B) = 30.12$	PASS
138	5690 (U-NII 3)	MCS0	3.78	3.81	2.78	3.13	9.69	9.302	27.05	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device)	17dBm/ MHz
		Fixed point-to-point Access Ponit	
		Mobile and portable client device	11dBm/ MHz
U-NII-2A	✓		11dBm/ MHz
U-NII-2C	✓		11dBm/ MHz
U-NII-3			30dBm/ 500kHz
If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.			

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is grater than 6 dBi in MIMO mode, therefore the the power density limit autenuation has been applied in the test results.

10.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .

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3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. For U-NII1, U-NII-2A, U-NII-2C Band:
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=300kHz, VBW $\geq$ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.

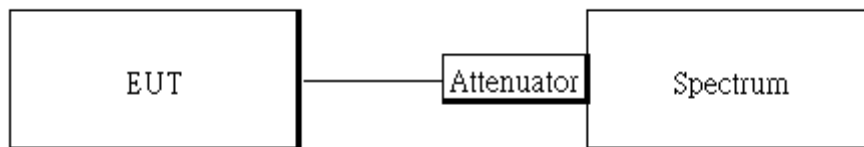
Set RBW=500kHz, VBW $\geq$ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.
8. MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

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

10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/24/2020	06/23/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF151	11/19/2020	11/18/2021

10.4 Test Set-up



10.5 Measurement Result

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10.5.1 Power spectral density

POWER DENSITY 802.11a MODE									
Frequency (MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)			
5260.00	6.952	0.220	7.17		11.00 dBm/MHz	-3.83			
5300.00	9.122	0.220	9.34		11.00 dBm/MHz	-1.66			
5320.00	8.146	0.220	8.37		11.00 dBm/MHz	-2.63			
5500.00	9.003	0.220	9.22		11.00 dBm/MHz	-1.78			
5580.00	7.097	0.220	7.32		11.00 dBm/MHz	-3.68			
5700.00	8.099	0.220	8.32		11.00 dBm/MHz	-2.68			
5720 (U-NII 2C)	8.286	0.220	8.51		11.00 dBm/MHz	-2.49			
Frequency (MHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD(dBm/500 kHz)	Limit	Margin (dB)			
5720 (U-NII 3)	3.731	0.220	2.22	6.17	30.00 dBm/500kHz	-23.83			

POWER DENSITY 802.11n HT20 MODE									
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	ch2 meas PSD (dBm/MHz)	ch3 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5260.00	0.779	0.793	0.966	2.300	0.220	7.50		8.07 dBm/MHz	-0.57
5300.00	-1.832	3.805	-0.533	1.543	0.220	7.52		8.07 dBm/MHz	-0.55
5320.00	0.254	0.698	1.793	2.102	0.220	7.52		8.07 dBm/MHz	-0.55
5500.00	1.223	1.826	1.979	-0.182	0.220	7.53		8.17 dBm/MHz	-0.64
5580.00	-0.218	1.060	0.431	2.362	0.220	7.26		8.17 dBm/MHz	-0.91
5700.00	0.537	0.063	1.229	2.407	0.220	7.39		8.17 dBm/MHz	-0.78
5720 (U-NII 2C)	-0.694	1.411	-0.906	2.867	0.220	7.19		8.17 dBm/MHz	-0.98
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	ch2 meas PSD (dBm/300kHz)	ch3 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD(dBm/500 kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-5.700	-5.132	-3.746	-3.823	0.220	2.22	3.94	27.05 dBm/500kHz	-23.11

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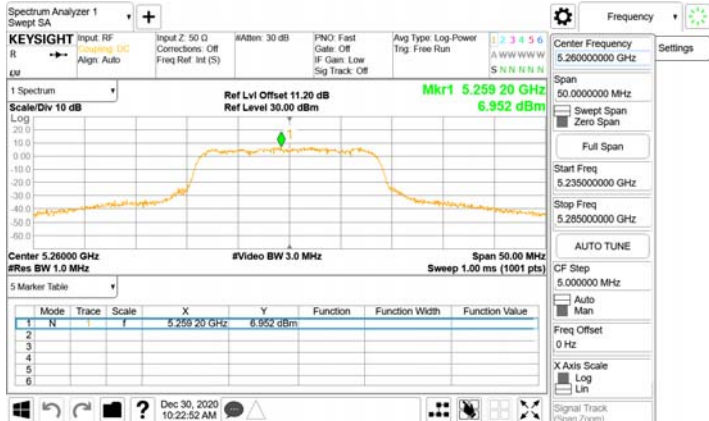
POWER DENSITY 802.11n HT40 MODE									
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	ch2 meas PSD (dBm/MHz)	ch3 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5270.00	-4.927	0.067	-5.099	-5.768	0.410	3.22		8.07 dBm/MHz	-4.85
5310.00	-3.668	-5.448	-4.978	-3.723	0.410	2.04		8.07 dBm/MHz	-6.03
5510.00	-4.174	-5.128	-3.121	-4.816	0.410	2.19		8.17 dBm/MHz	-5.98
5550.00	-2.566	-7.254	-4.147	-5.626	0.410	1.87		8.17 dBm/MHz	-6.30
5670.00	-5.987	-4.486	-1.002	-5.822	0.410	2.62		8.17 dBm/MHz	-5.55
5710 (U-NII 2C)	-1.987	-5.652	-1.161	-2.483	0.410	3.90		8.17 dBm/MHz	-4.27
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	ch2 meas PSD (dBm/300kHz)	ch3 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD(dBm/500 kHz)	Limit	Margin (dB)
5710 (U-NII 3)	-15.693	-11.277	-8.687	-14.575	0.410	2.22	-3.03	27.05 dBm/500kHz	-30.08
POWER DENSITY 802.11ac VHT80 MODE									
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	ch2 meas PSD (dBm/MHz)	ch3 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5290.00	-2.896	-2.170	-2.604	-1.008	0.270	4.18		8.07 dBm/MHz	-3.89
5530.00	-1.661	-2.089	-1.220	-2.425	0.270	4.47		8.17 dBm/MHz	-3.70
5610.00	-0.290	-0.544	-0.454	-2.819	0.270	5.38		8.17 dBm/MHz	-2.79
5690 (U-NII 2C)	-1.762	-0.996	-2.770	-1.969	0.270	4.46		8.17 dBm/MHz	-3.71
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	ch2 meas PSD (dBm/300kHz)	ch3 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD(dBm/500 kHz)	Limit	Margin (dB)
5690 (U-NII 3)	-3.965	-9.748	-6.988	-4.584	0.270	2.22	2.72	27.05 dBm/500kHz	-24.33

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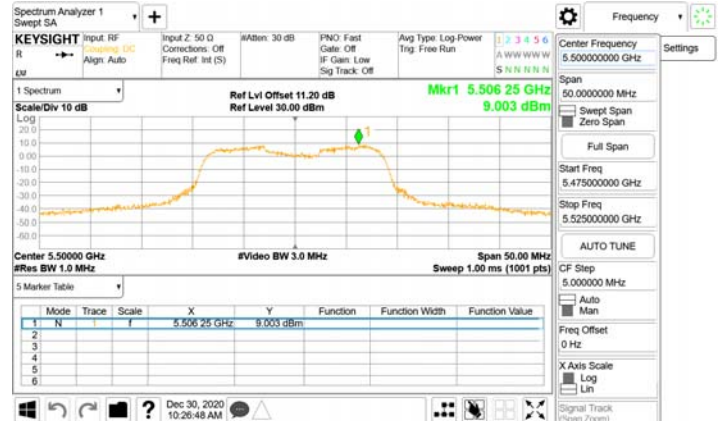
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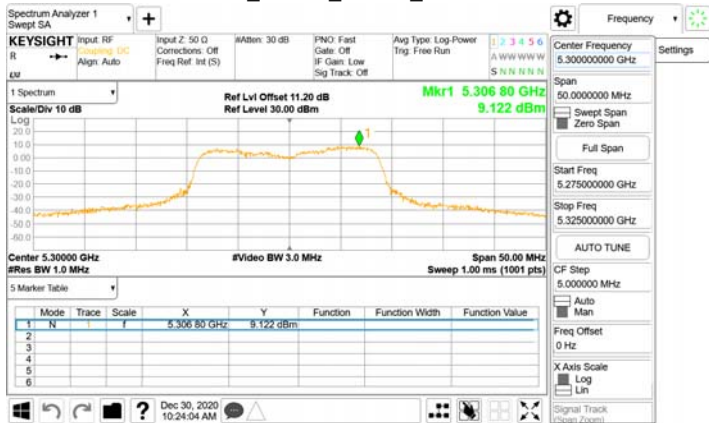
802.11a_20MHz_Chain1_5260MHz



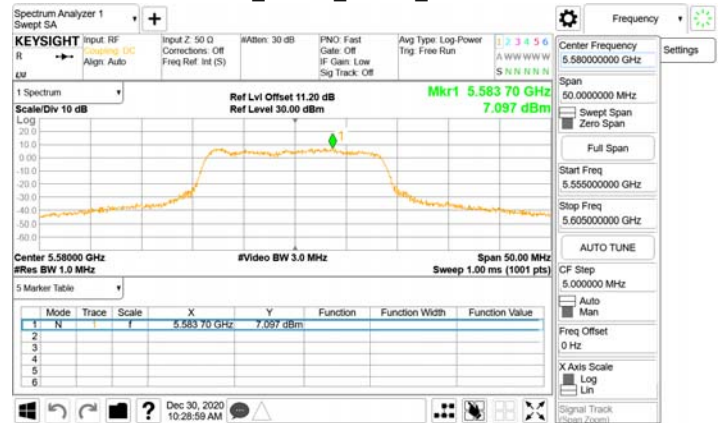
802.11a_20MHz_Chain1_5500MHz



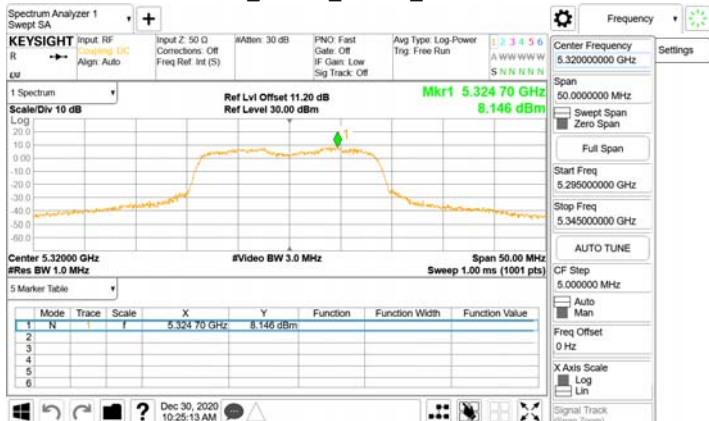
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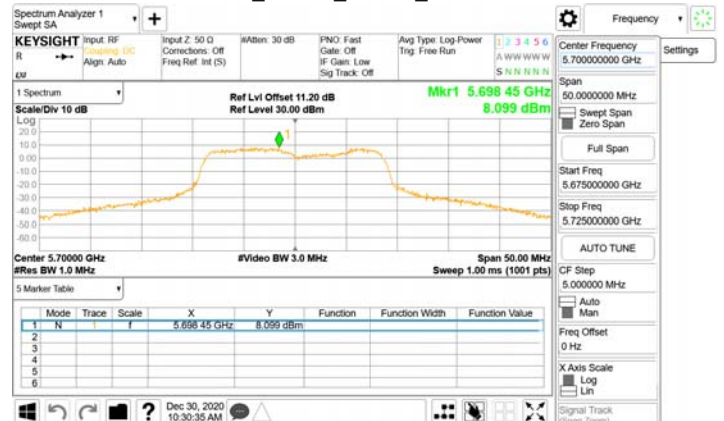
802.11a_20MHz_Chain1_5580MHz



802.11a_20MHz_Chain1_5320MHz



802.11a_20MHz_Chain1_5700MHz

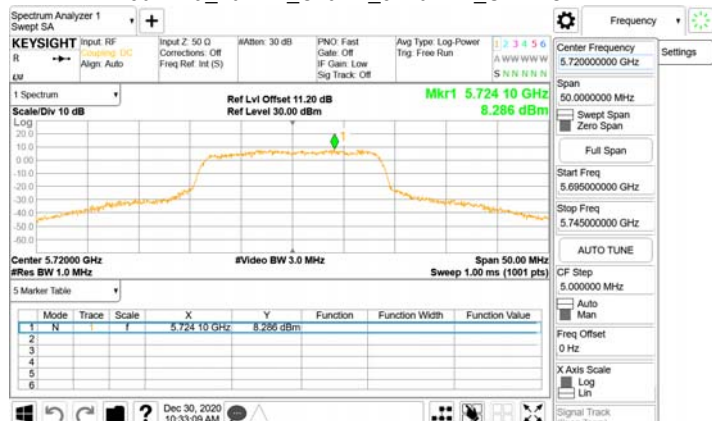


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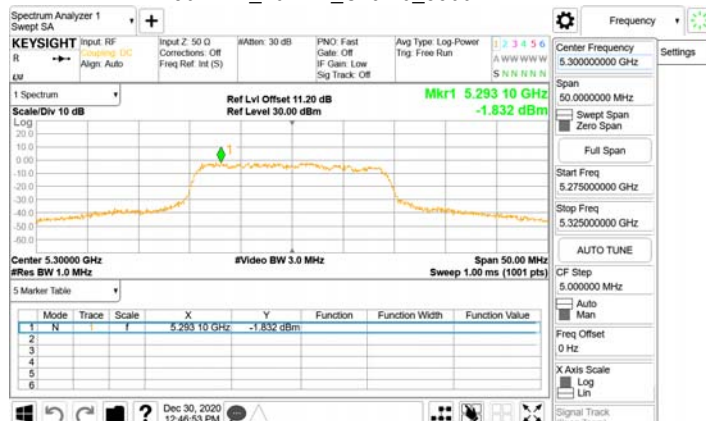
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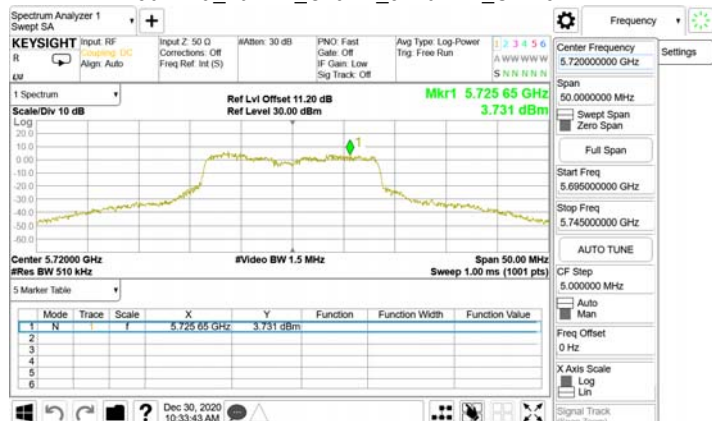
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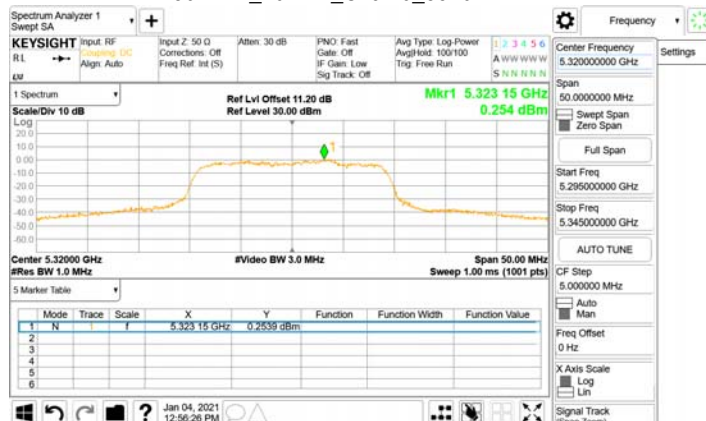
802.11n_20MHz_Chain0_5300MHz



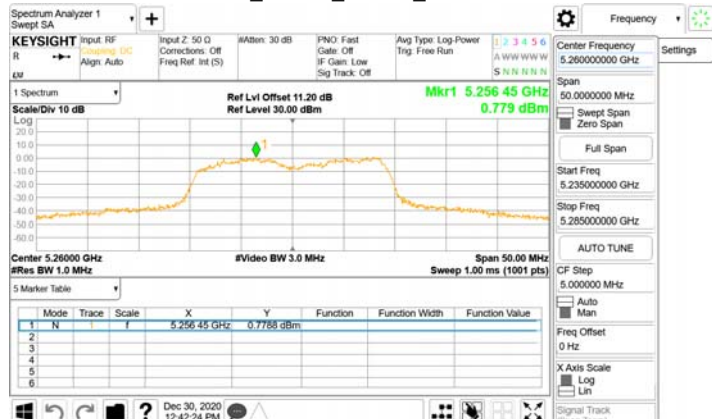
802.11a_20MHz_Chain1_5720MHz_UNII 3



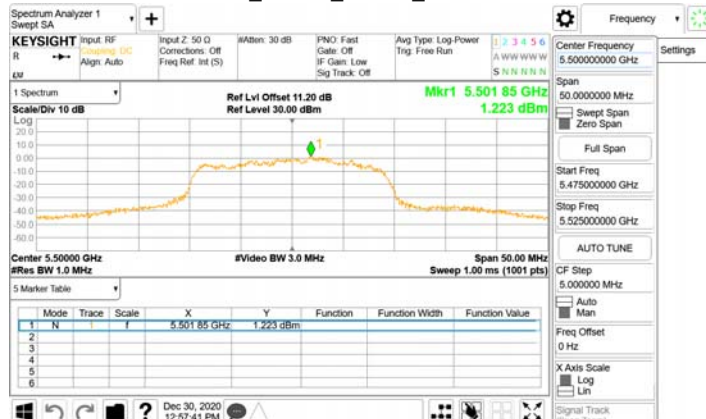
802.11n_20MHz_Chain0_5320MHz



802.11n_20MHz_Chain0_5260MHz



802.11n_20MHz_Chain0_5500MHz

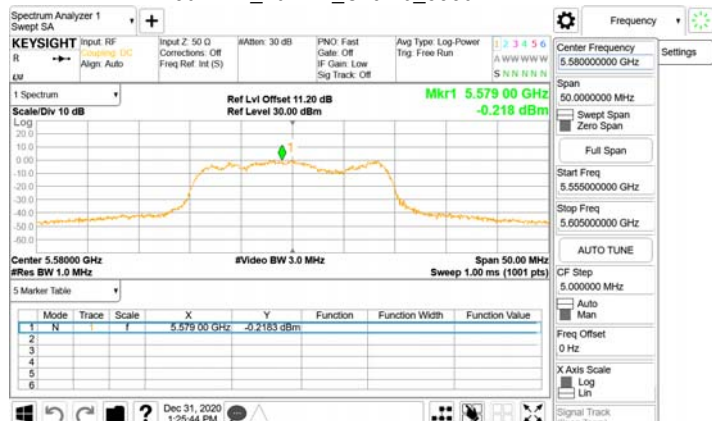


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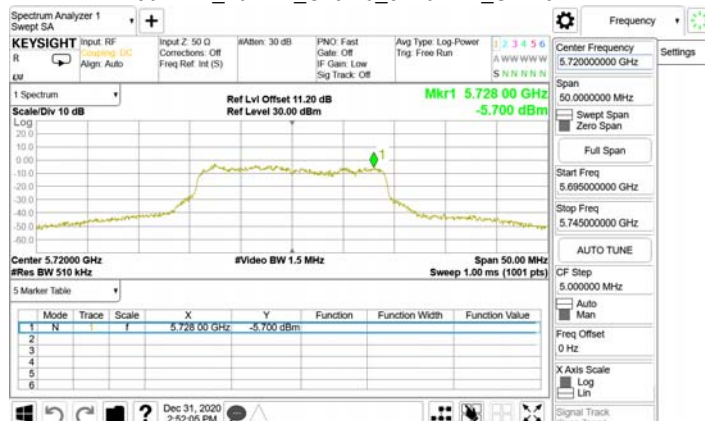
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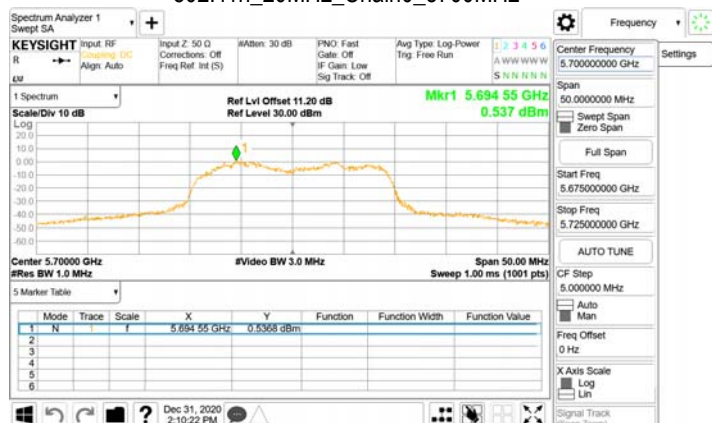
802.11n_20MHz_Chain0_5580MHz



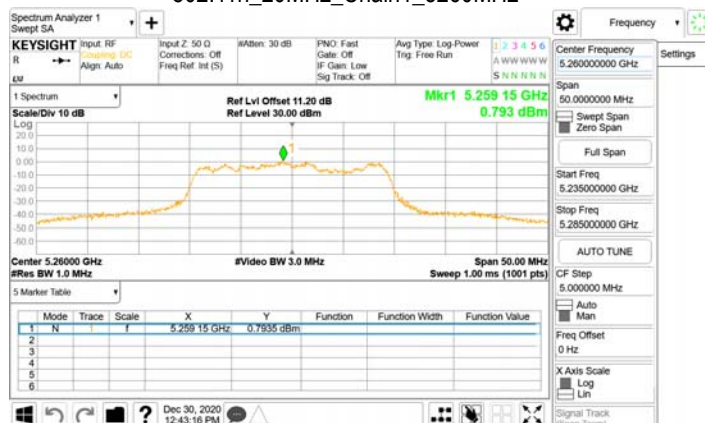
802.11n_20MHz_Chain0_5720MHz_UNII 3



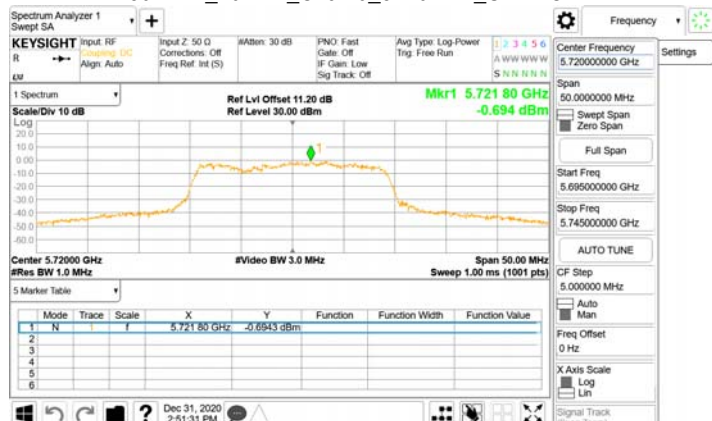
802.11n_20MHz_Chain0_5700MHz



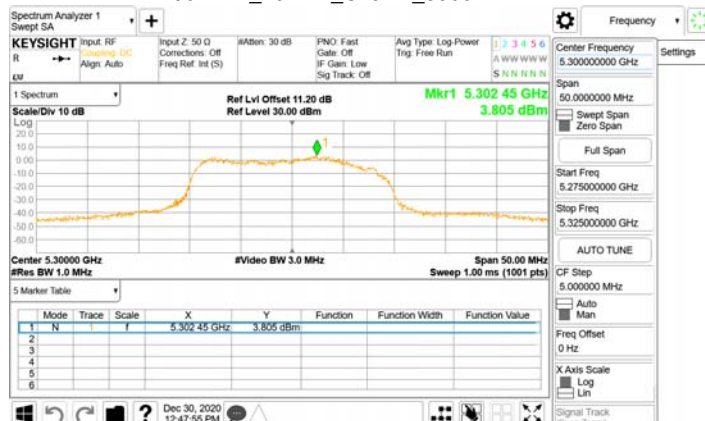
802.11n_20MHz_Chain1_5260MHz



802.11n_20MHz_Chain0_5720MHz_UNII 2C



802.11n_20MHz_Chain1_5300MHz

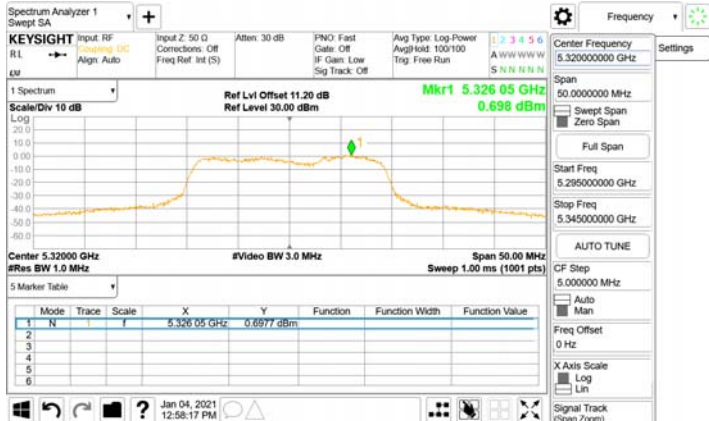


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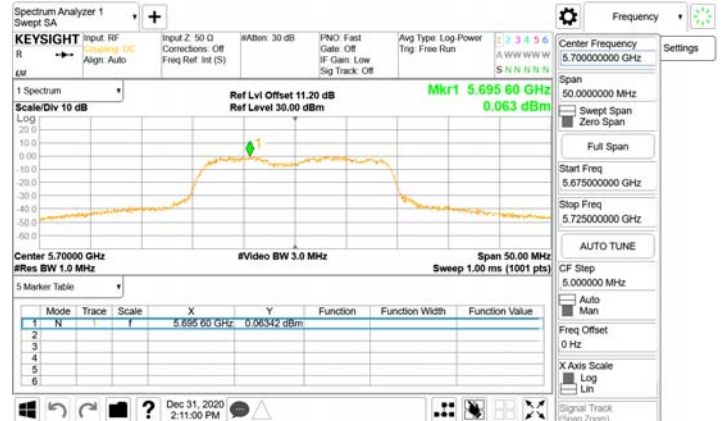
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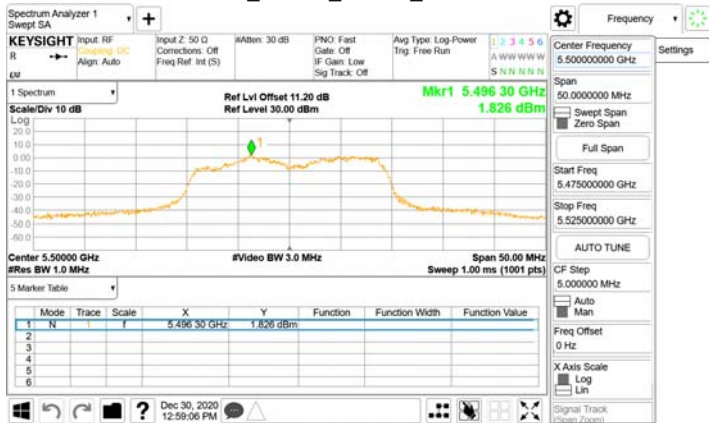
802.11n_20MHz_Chain1_5320MHz



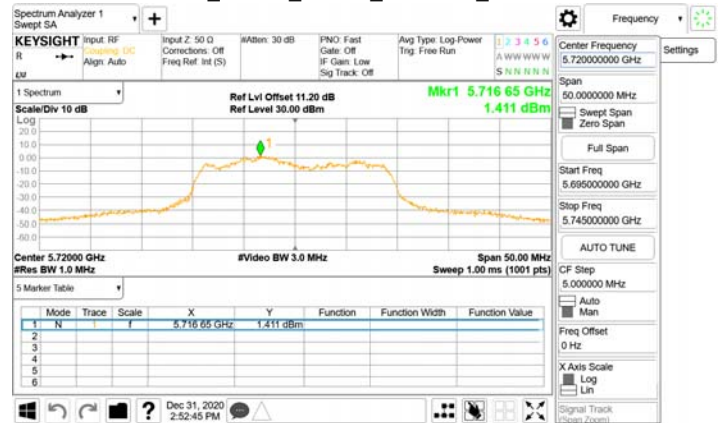
802.11n_20MHz_Chain1_5700MHz



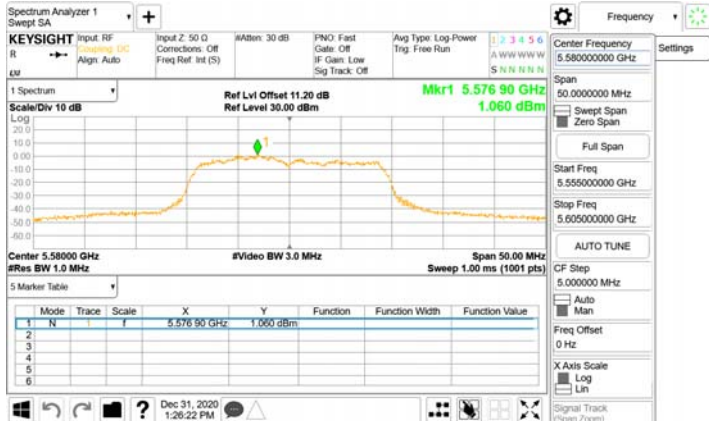
802.11n_20MHz_Chain1_5500MHz



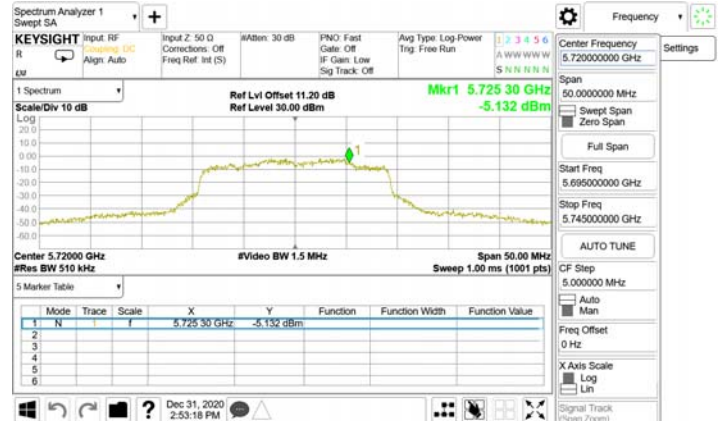
802.11n_20MHz_Chain1_5720MHz_UNII 2C



802.11n_20MHz_Chain1_5580MHz



802.11n_20MHz_Chain1_5720MHz_UNII 3

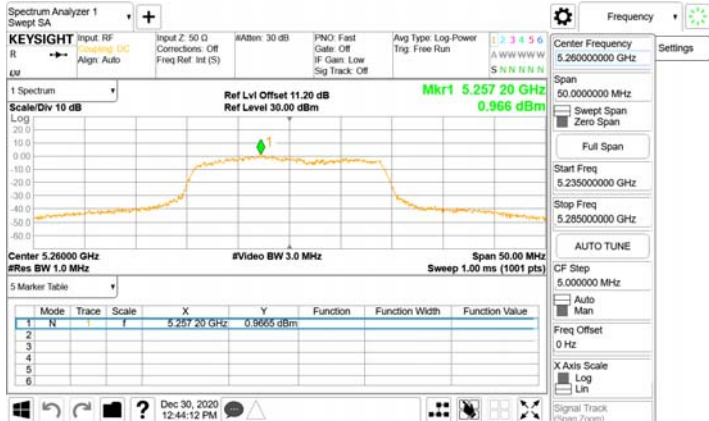


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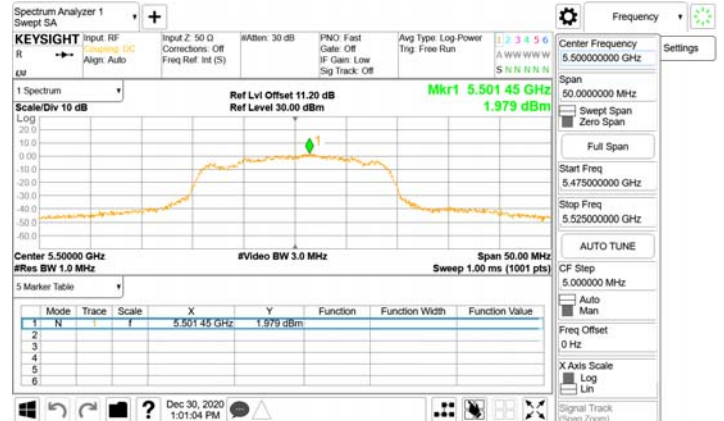
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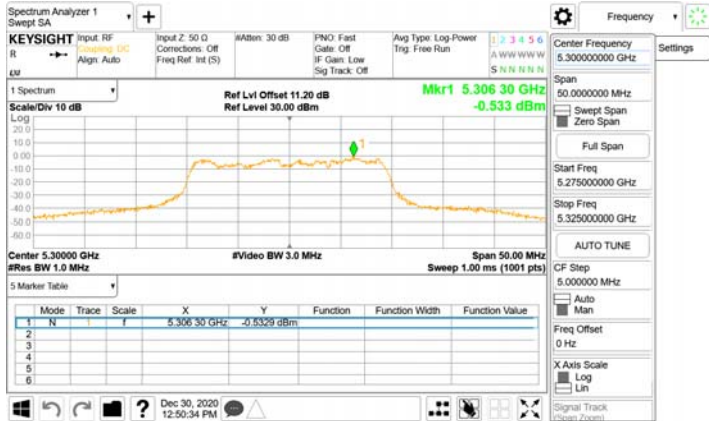
802.11n_20MHz_Chain2_5260MHz



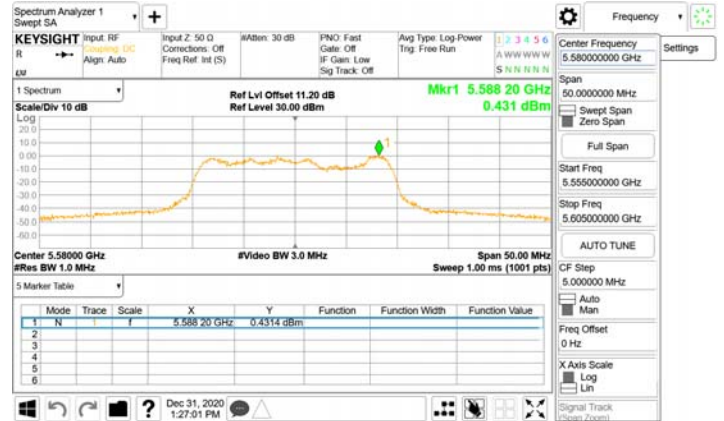
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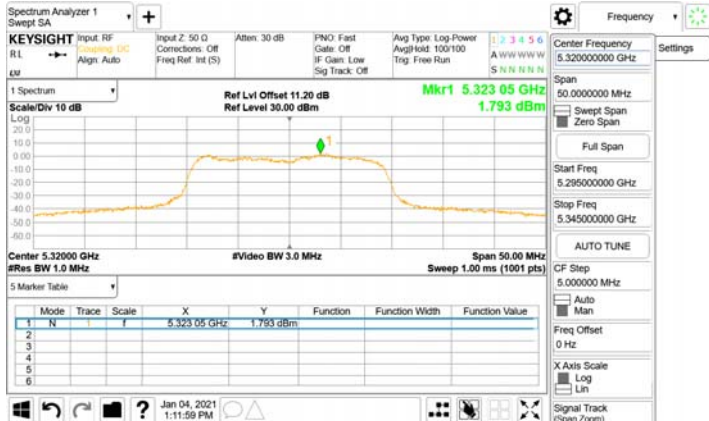
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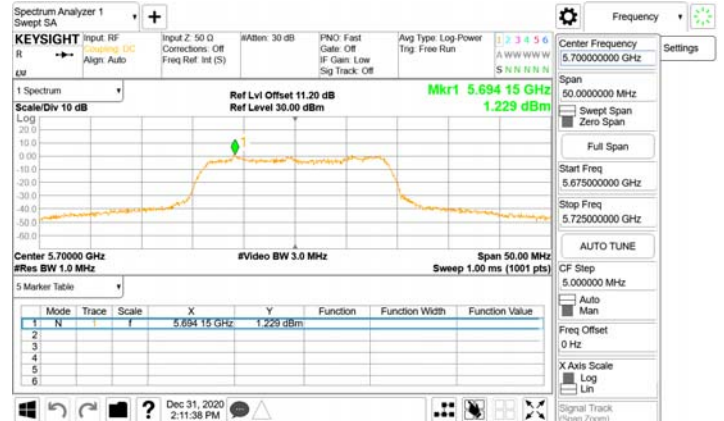
802.11n_20MHz_Chain2_5580MHz



802.11n_20MHz_Chain2_5320MHz



802.11n_20MHz_Chain2_5700MHz

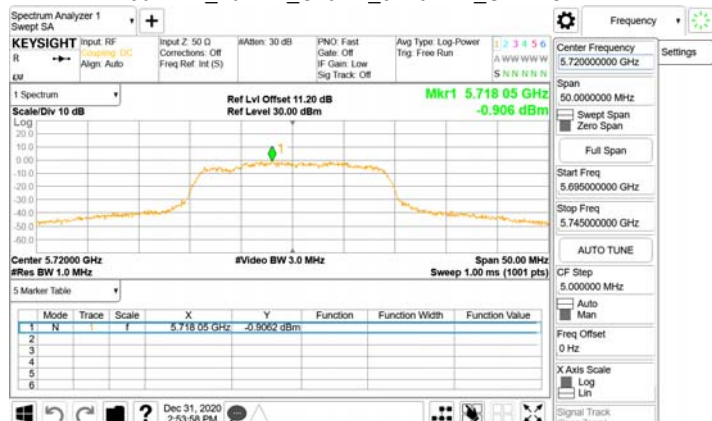


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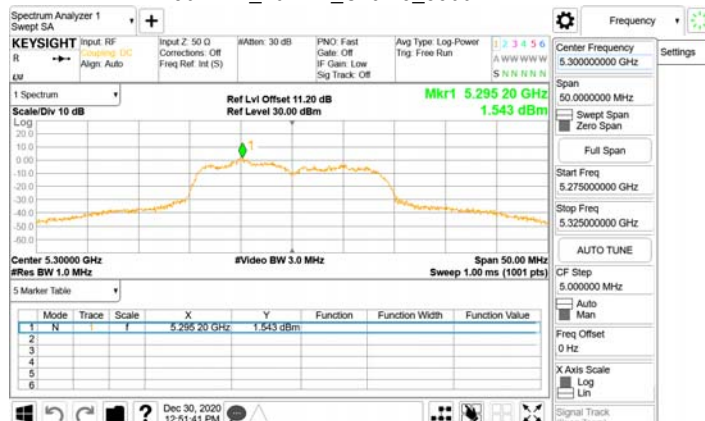
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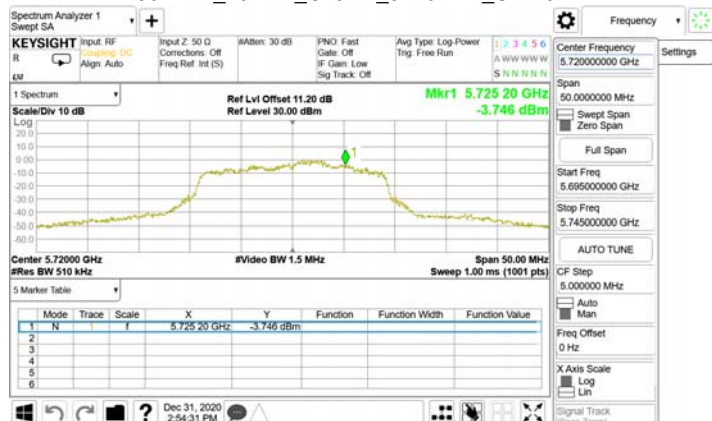
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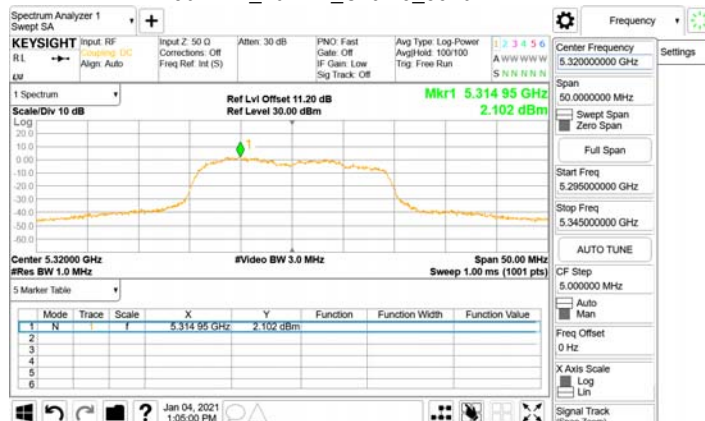
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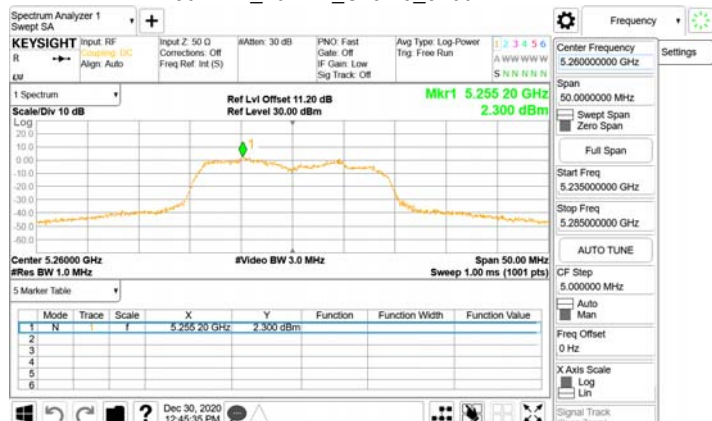
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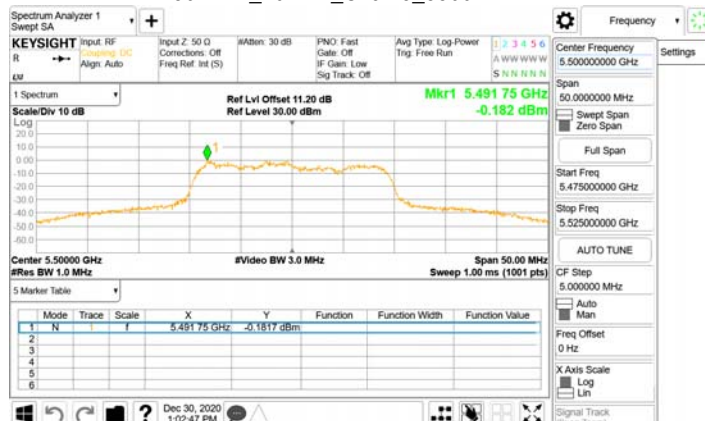
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802.11n_20MHz_Chain3_5260MHz



802.11n_20MHz_Chain3_5500MHz

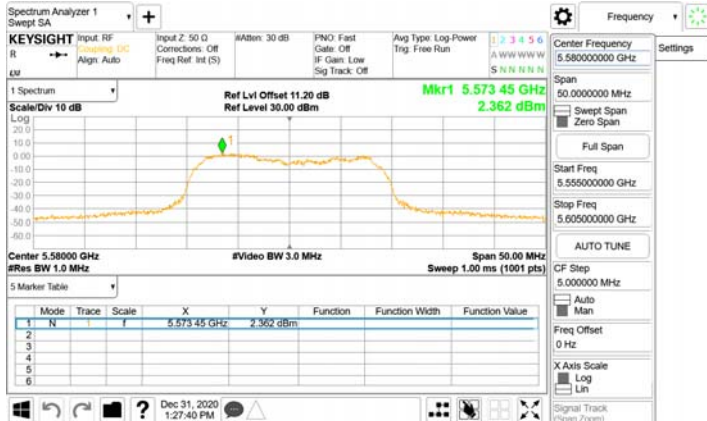


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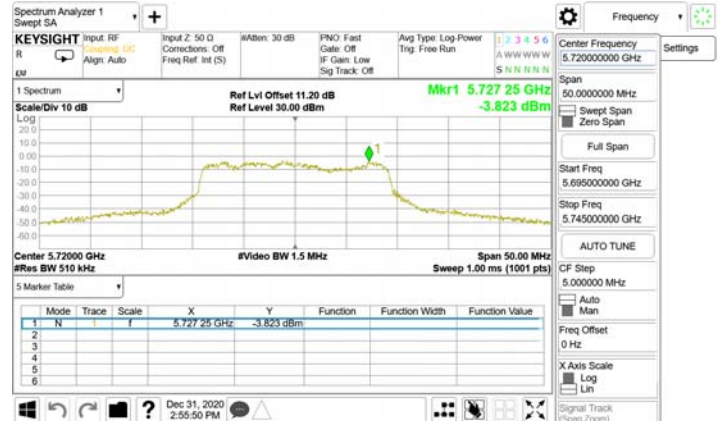
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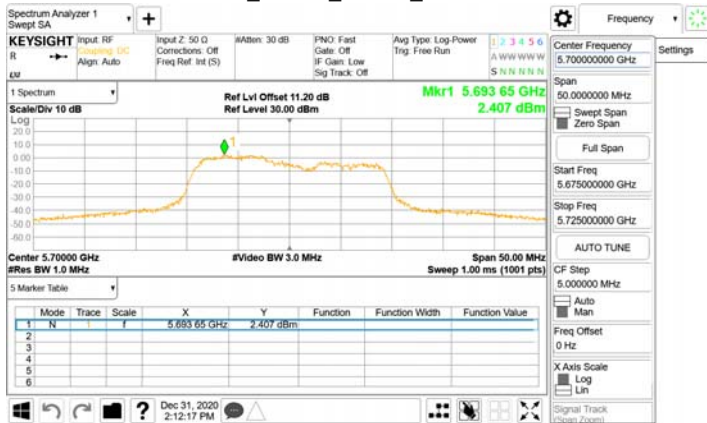
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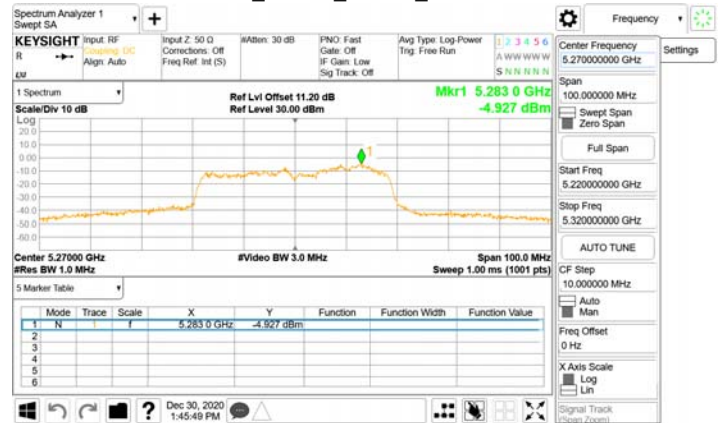
802.11n_20MHz_Chain3_5720MHz_UNII 3



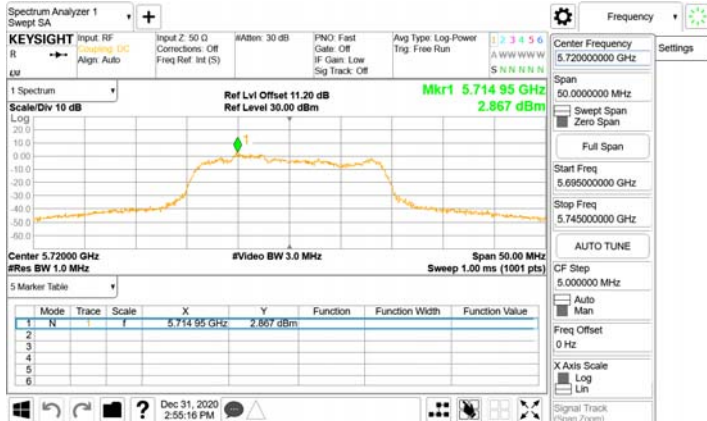
802.11n_20MHz_Chain3_5700MHz



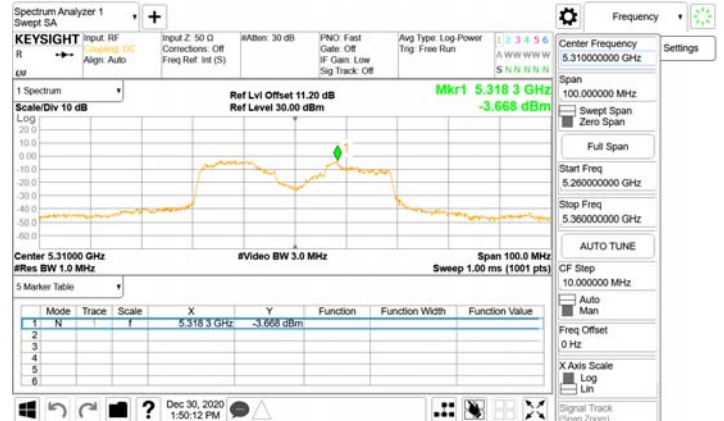
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802.11n_20MHz_Chain3_5720MHz_UNII 2C



802.11n_40MHz_Chain0_5310MHz

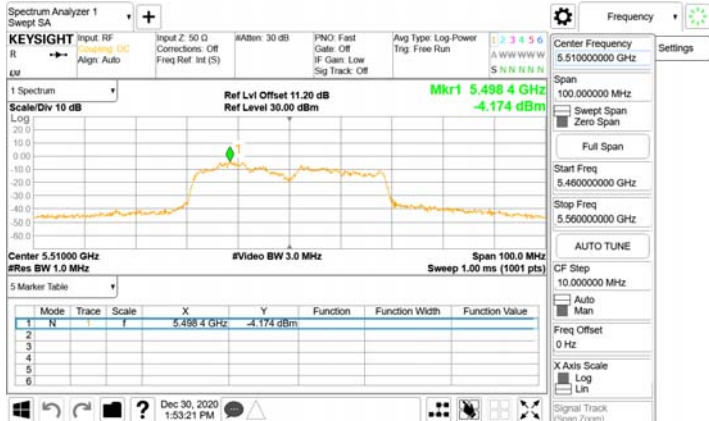


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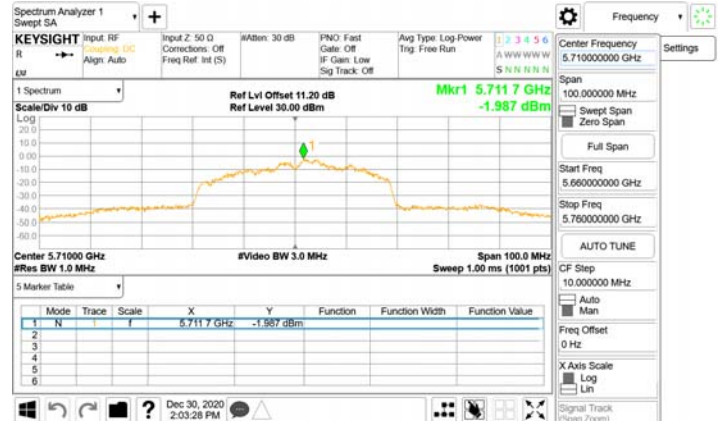
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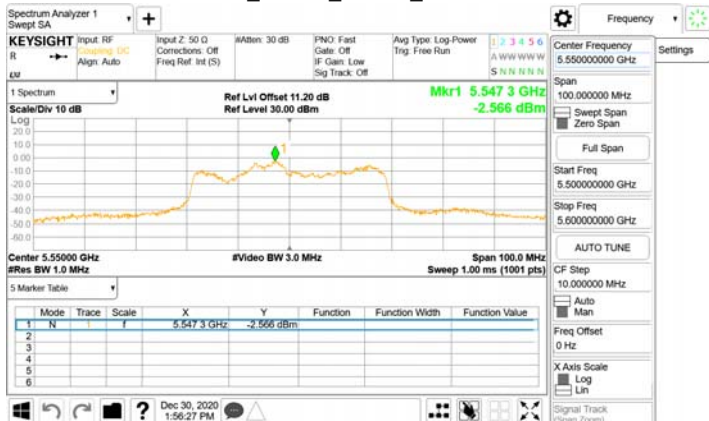
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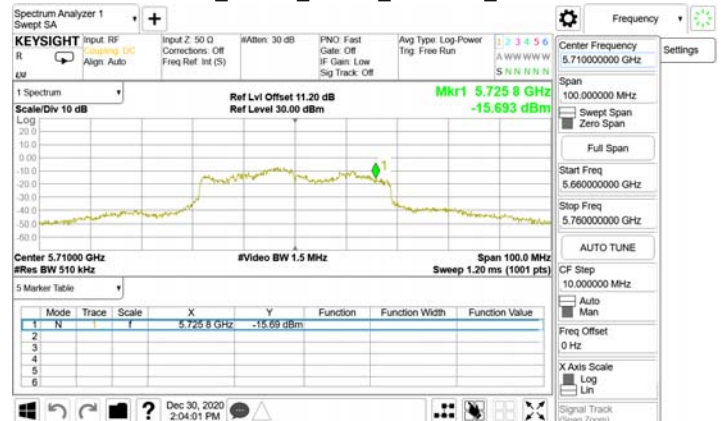
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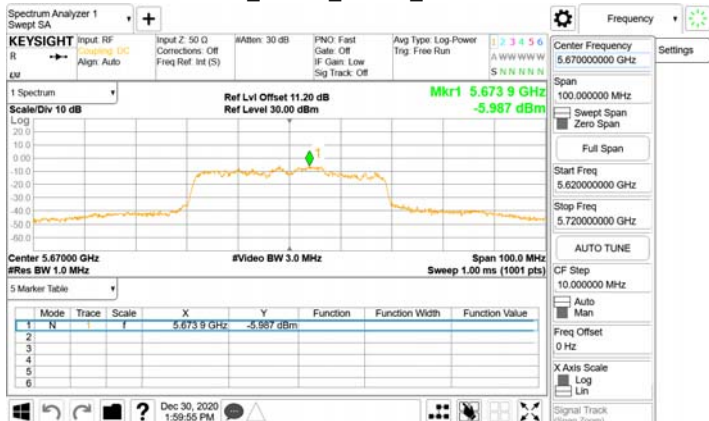
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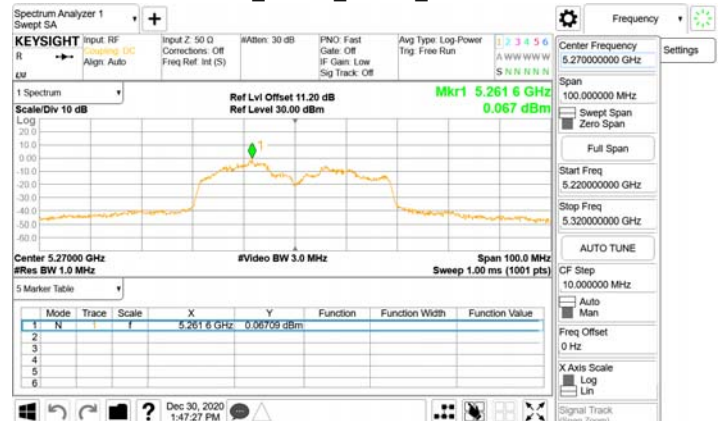
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802.11n_40MHz_Chain0_5670MHz



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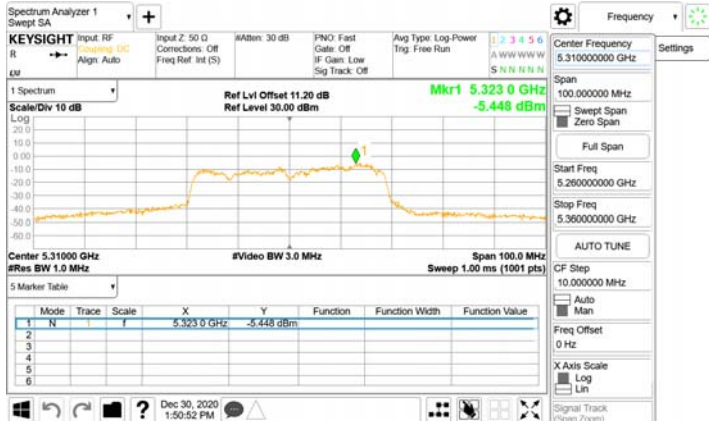


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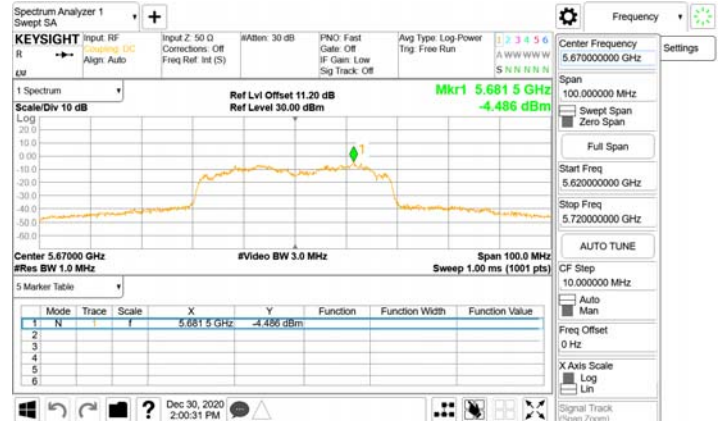
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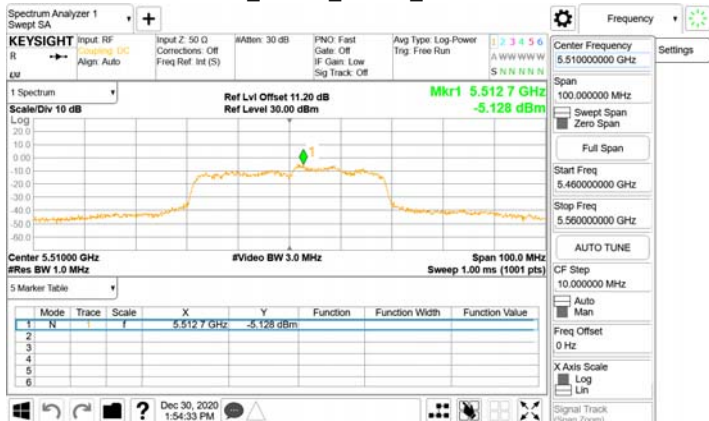
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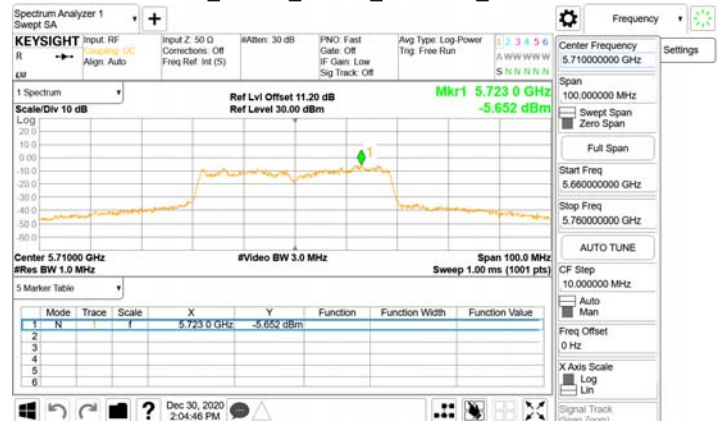
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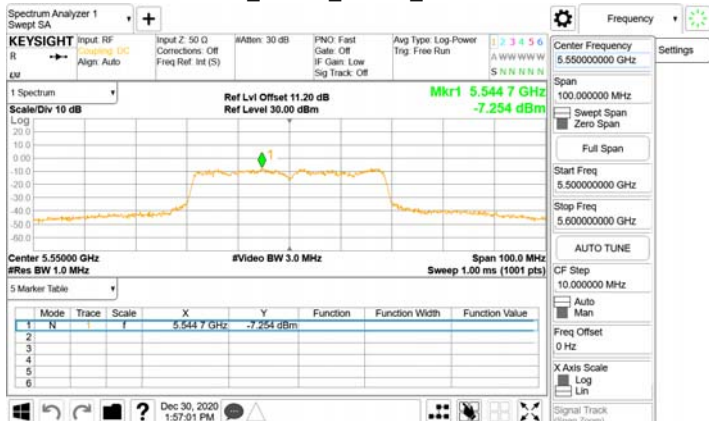
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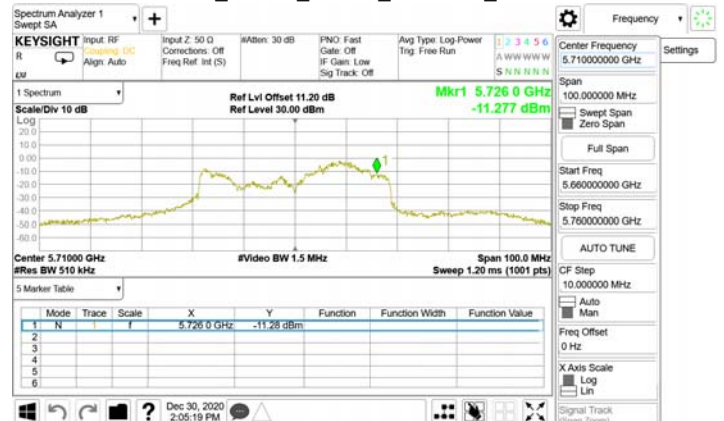
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802.11n_40MHz_Chain1_5550MHz



802.11n_40MHz_Chain1_5710MHz_UNII 3

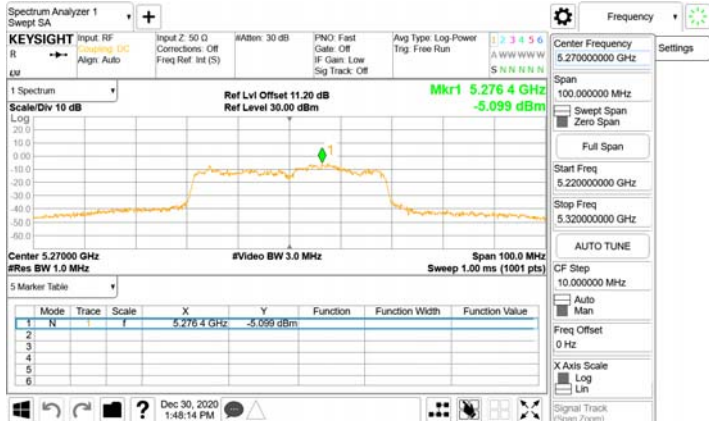


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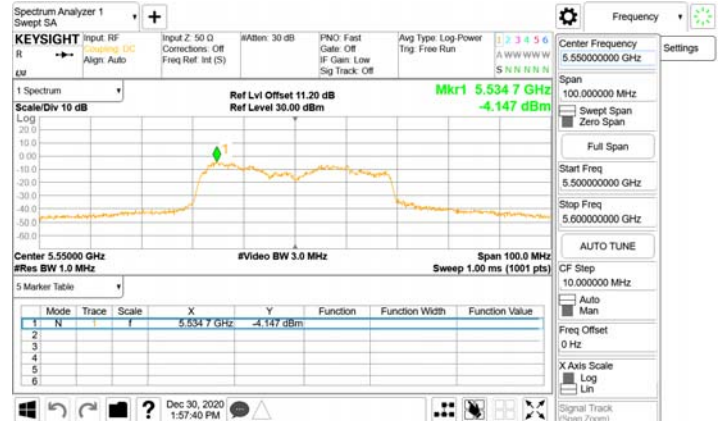
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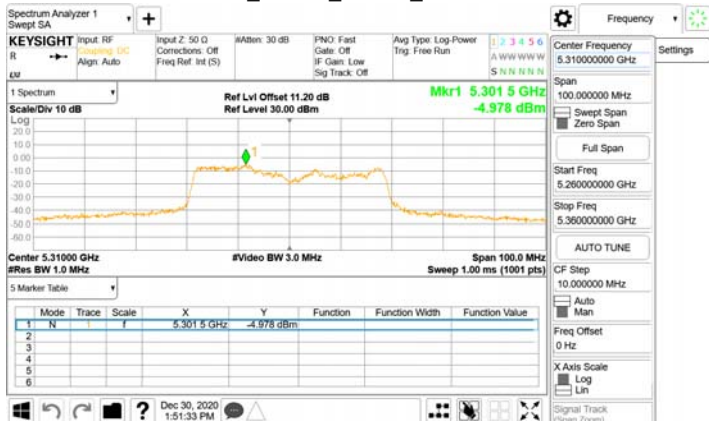
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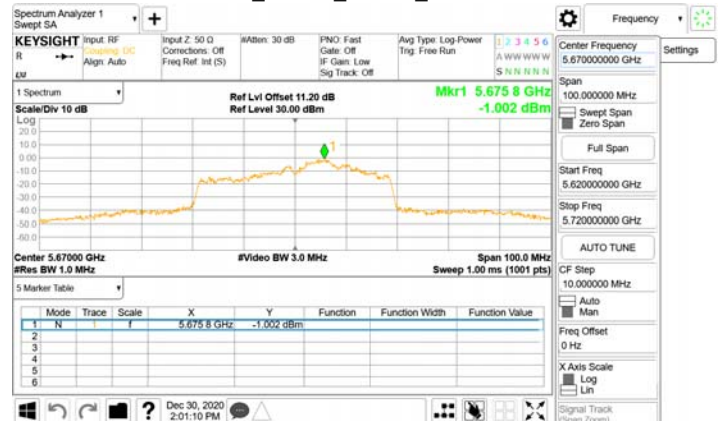
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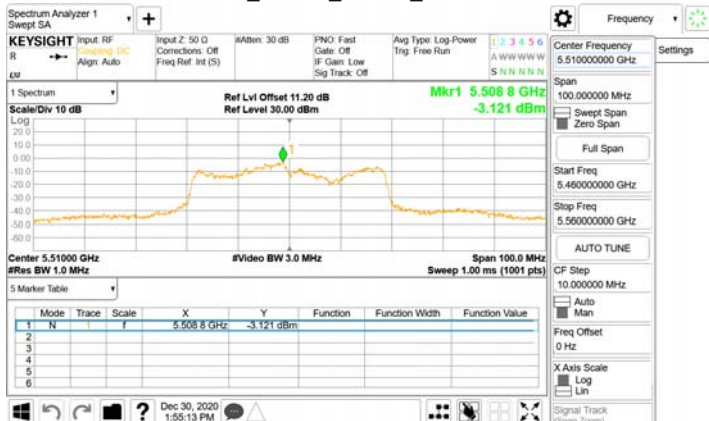
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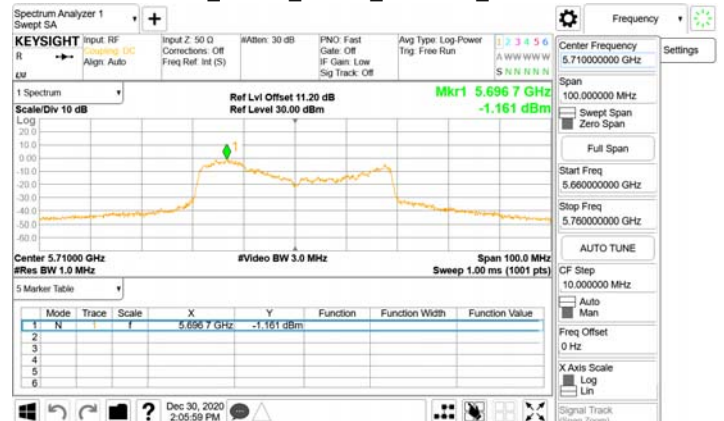
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802.11n_40MHz_Chain2_5510MHz



802.11n_40MHz_Chain2_5710MHz_UNII 2C

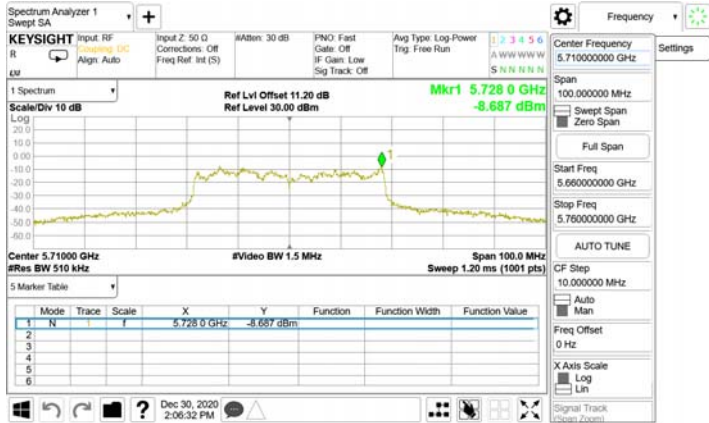


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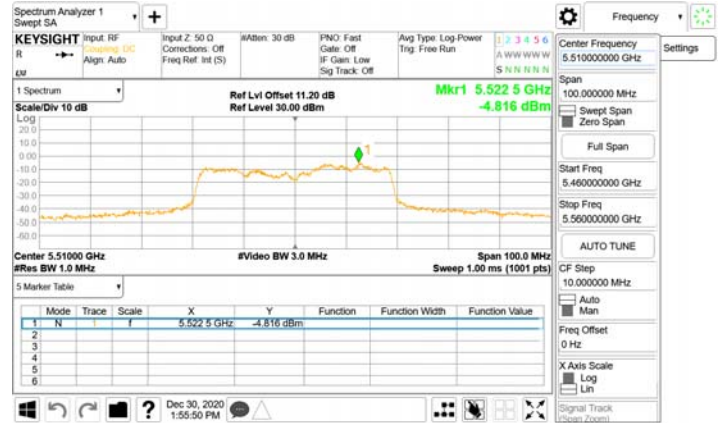
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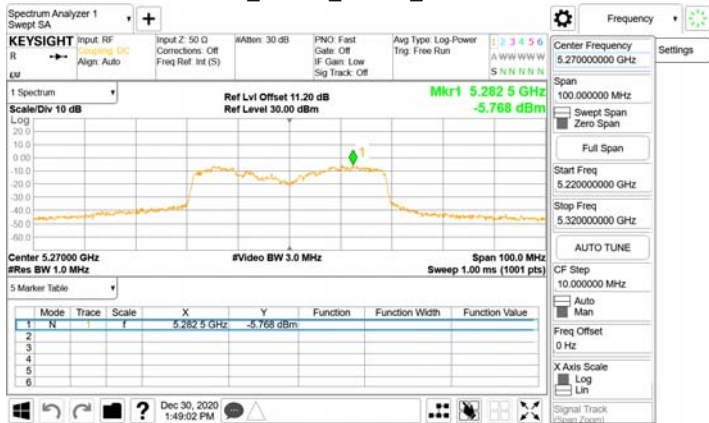
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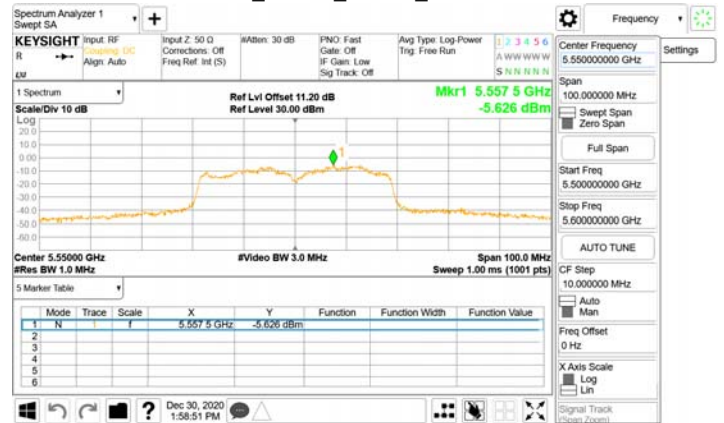
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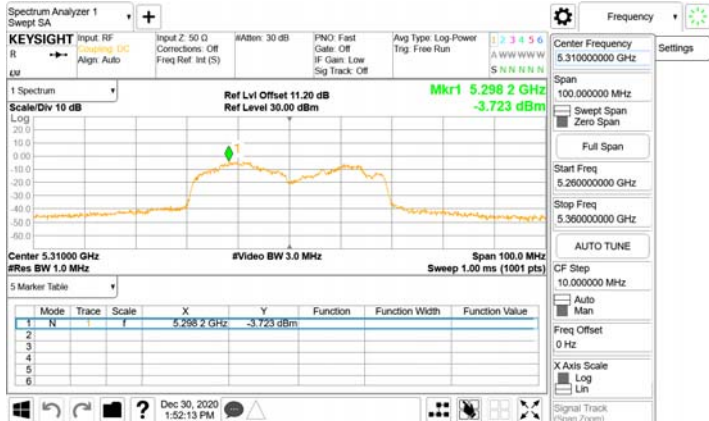
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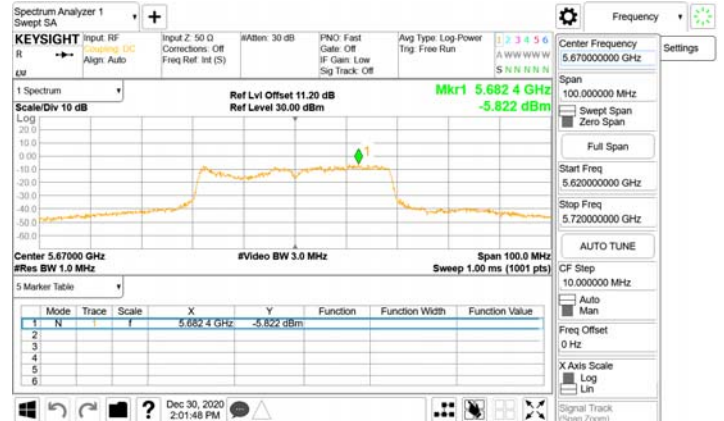
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802.11n_40MHz_Chain3_5310MHz



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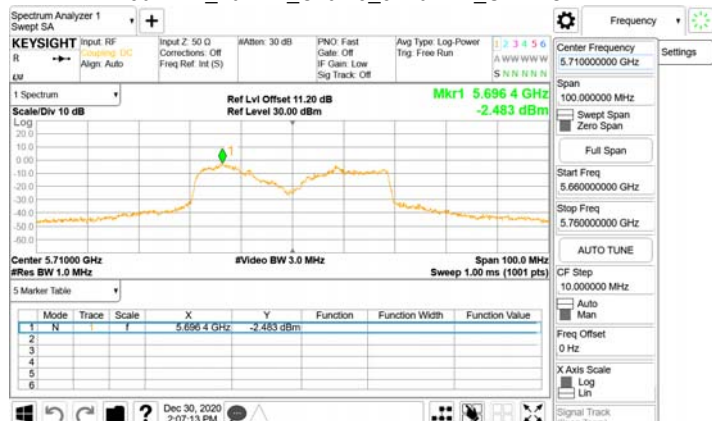


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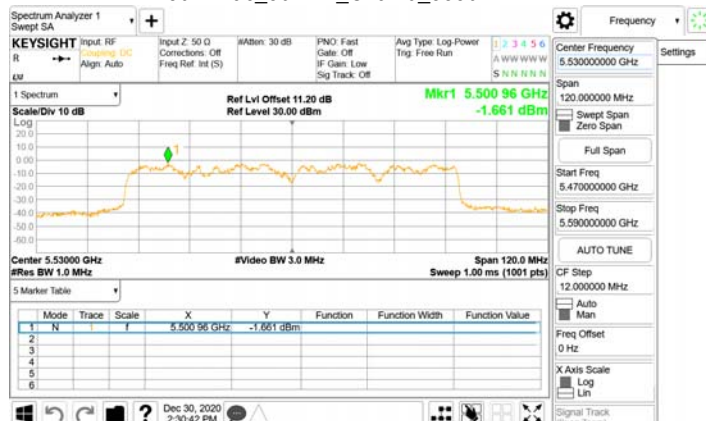
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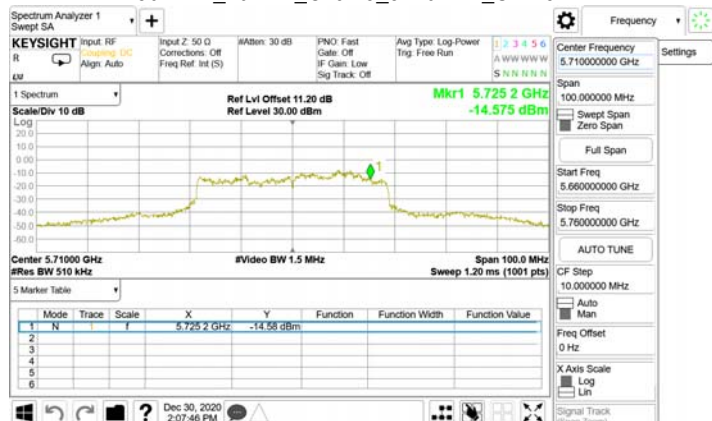
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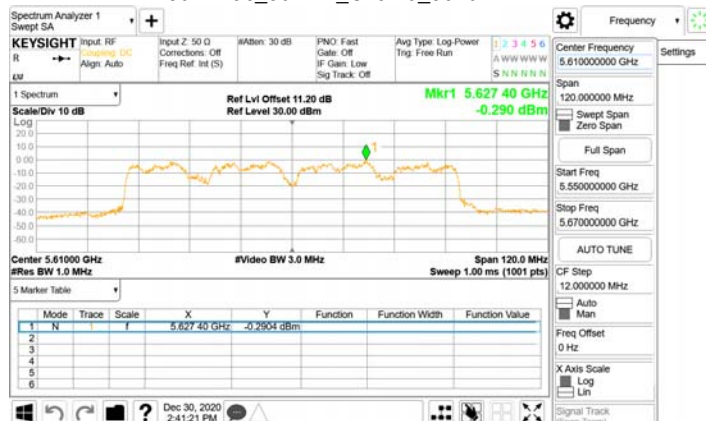
802.11ac_80MHz_Chain0_5530MHz



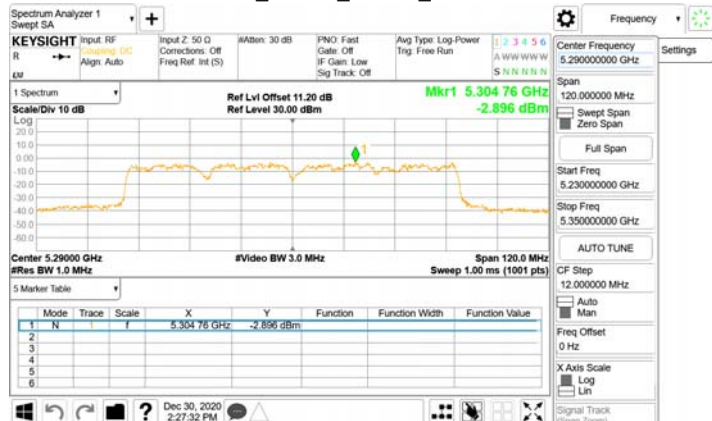
802.11n_40MHz_Chain3_5710MHz_UNII 3



802.11ac_80MHz_Chain0_5610MHz



802.11ac_80MHz_Chain0_5290MHz



802.11ac_80MHz_Chain0_5690MHz_UNII 2C

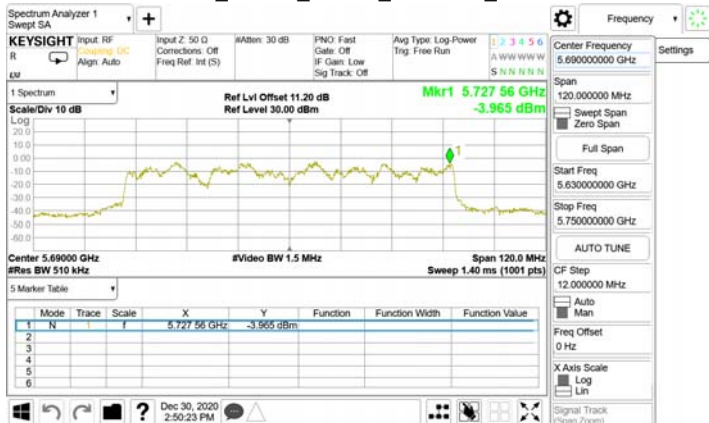


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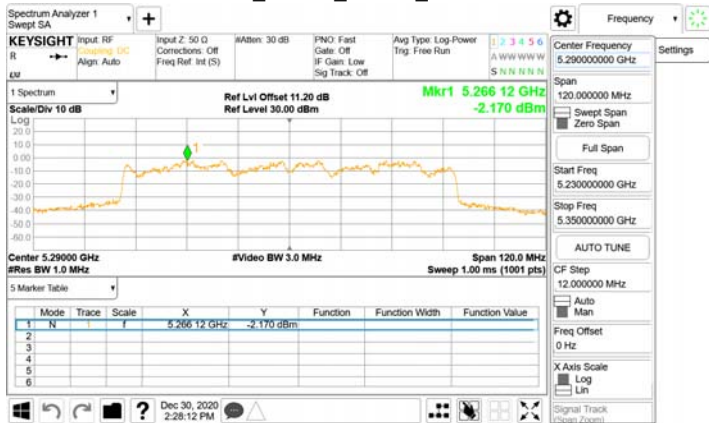
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802.11ac_80MHz_Chain1_5610MHz



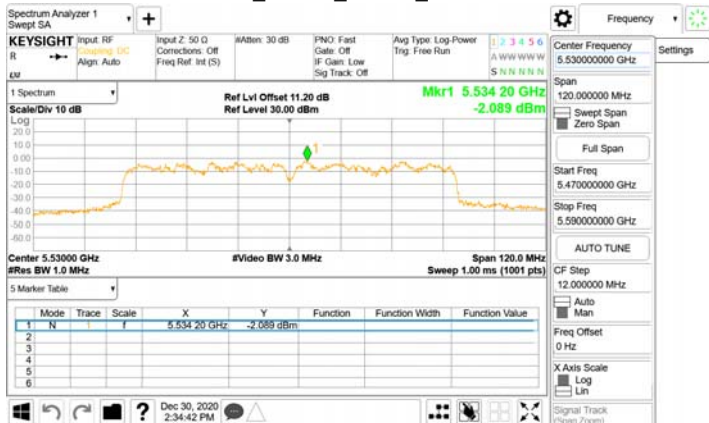
802.11ac_80MHz_Chain1_5290MHz



802.11ac_80MHz_Chain1_5690MHz_UNII 2C



802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5690MHz_UNII 3

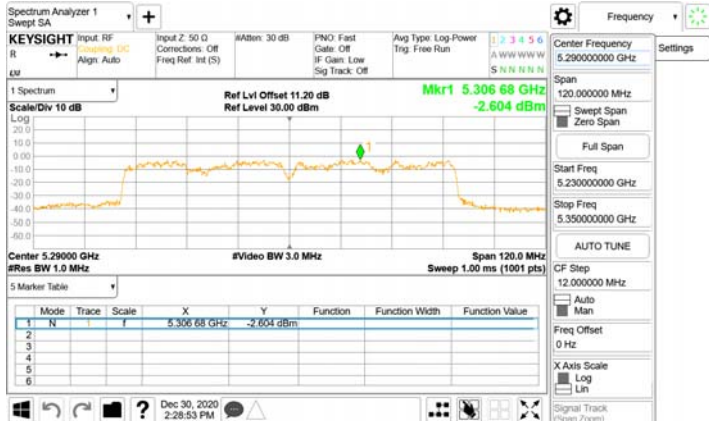


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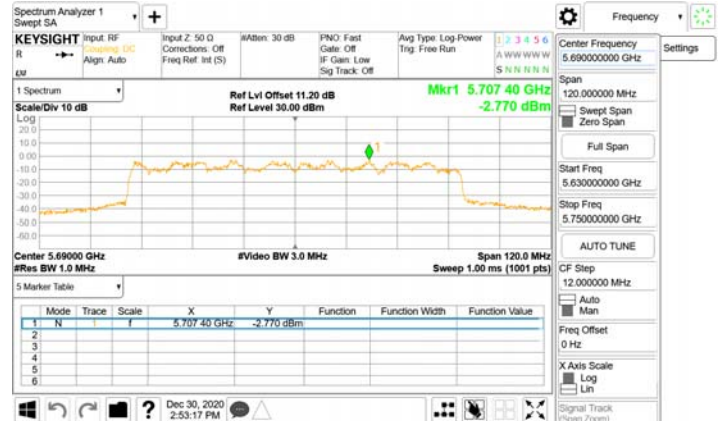
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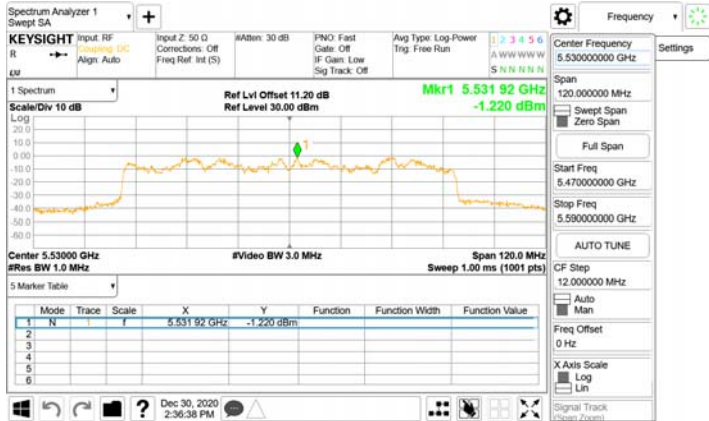
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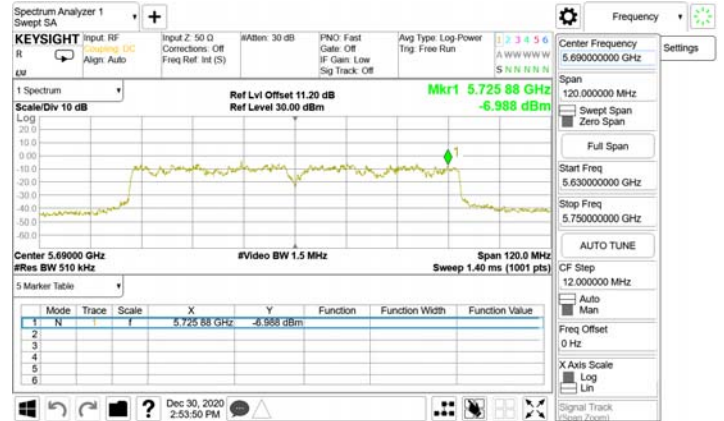
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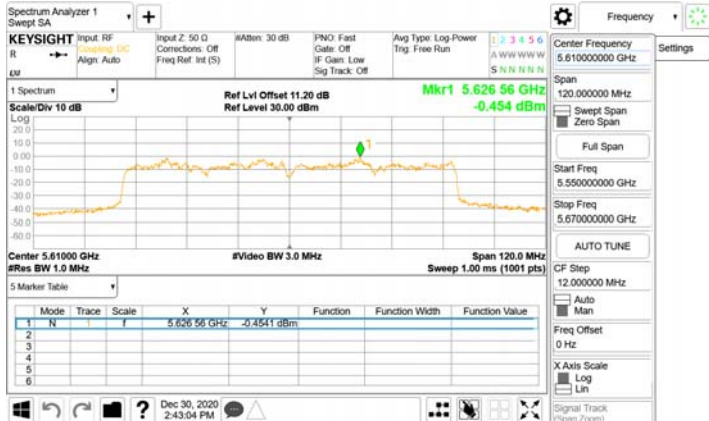
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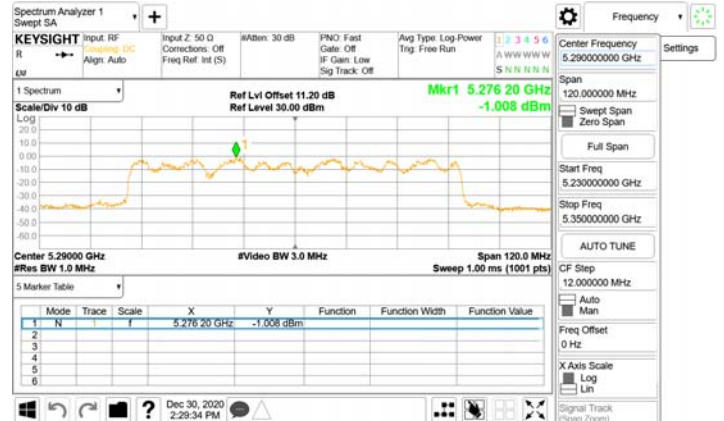
802.11ac_80MHz_Chain2_5690MHz_UNII 3



802.11ac_80MHz_Chain2_5610MHz



802.11ac_80MHz_Chain3_5290MHz

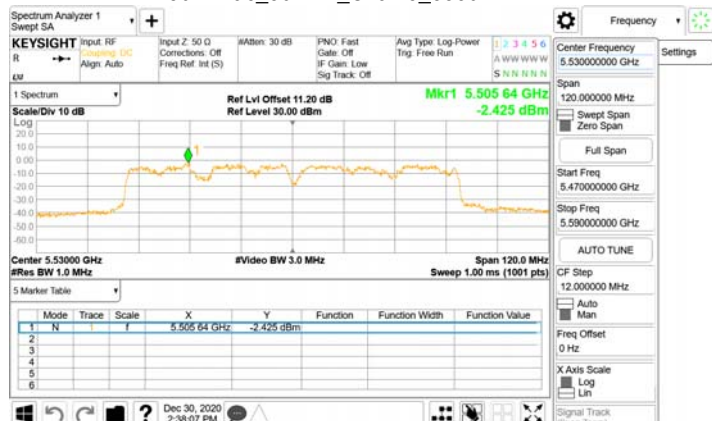


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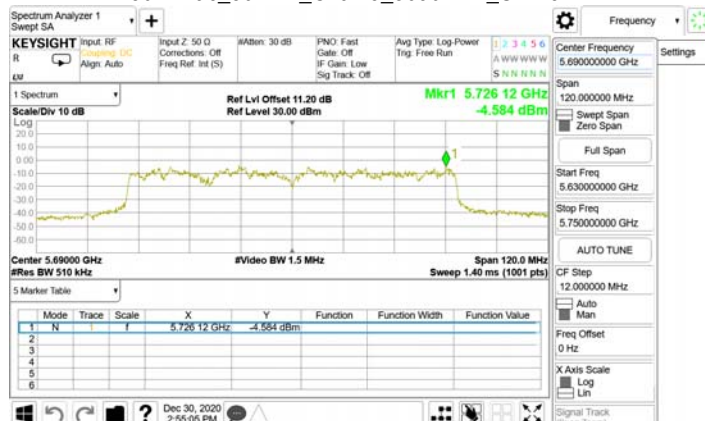
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802.11ac_80MHz_Chain3_5530MHz



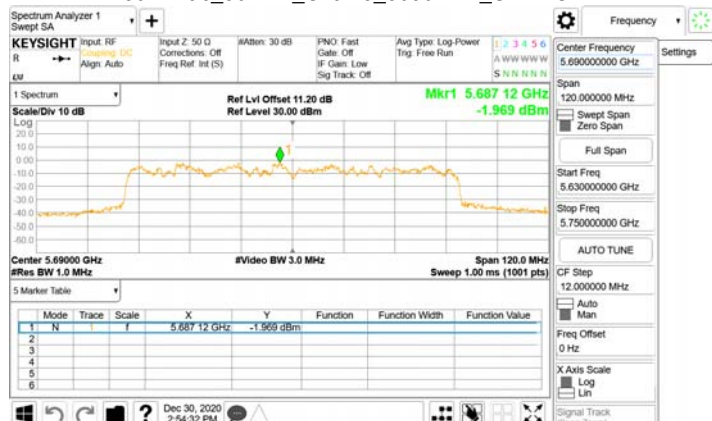
802.11ac_80MHz_Chain3_5690MHz_UNII 3



802.11ac_80MHz_Chain3_5610MHz



802.11ac_80MHz_Chain3_5690MHz_UNII 2C



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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.		

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

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11.1.2 Spurious Emission

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

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

Note:

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

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11.2 Measurement Equipment Used

SGS SAC-III					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/22/2020	06/21/2021
Loop Antenna	ETS.LINDGREN	6502	143303	04/28/2020	04/27/2021
3m Site NSA	SGS	966 chamber D	N/A	07/12/2020	07/11/2021
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/08/2020	07/07/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF25	11/19/2020	11/18/2021
High Pass Filter	R&S	F13 HPF 3GHz	RF175	11/19/2020	11/18/2021
Lowpass Filter	Woken	EWT-56-0019	RF173	11/19/2020	11/18/2021
Notch Filter	Woken	EWT-54-0038	RF178	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/19/2020	11/18/2021
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/19/2020	11/18/2021

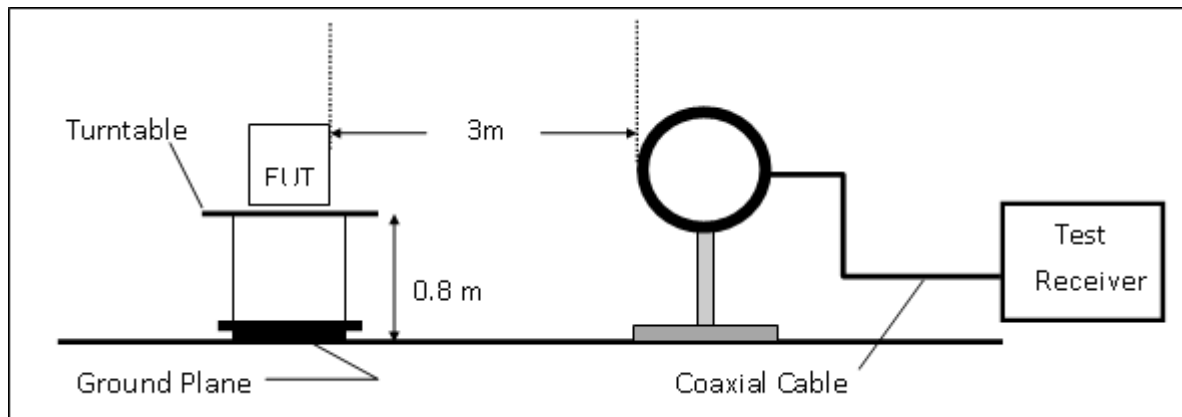
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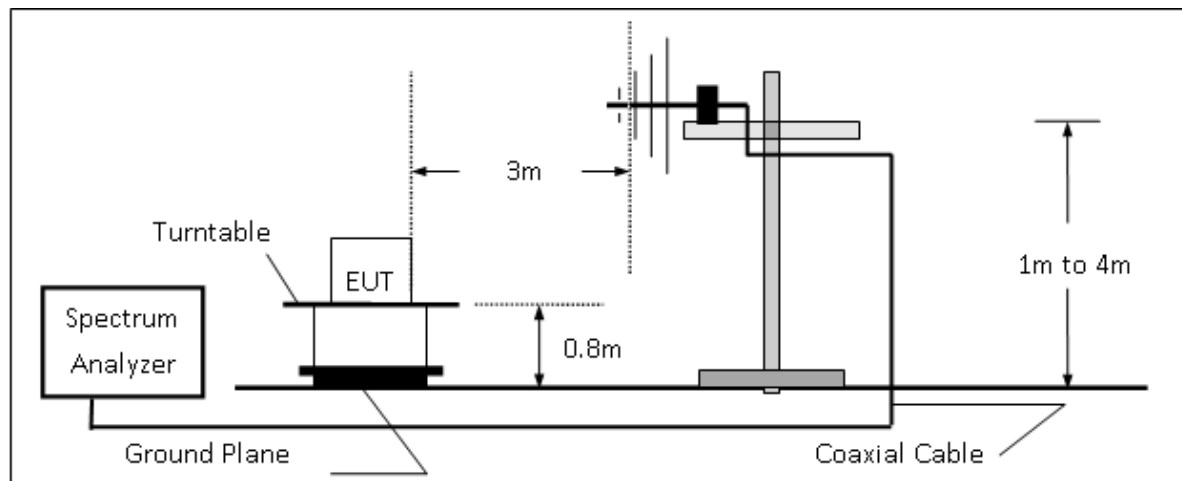
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11.3 Test SET-UP

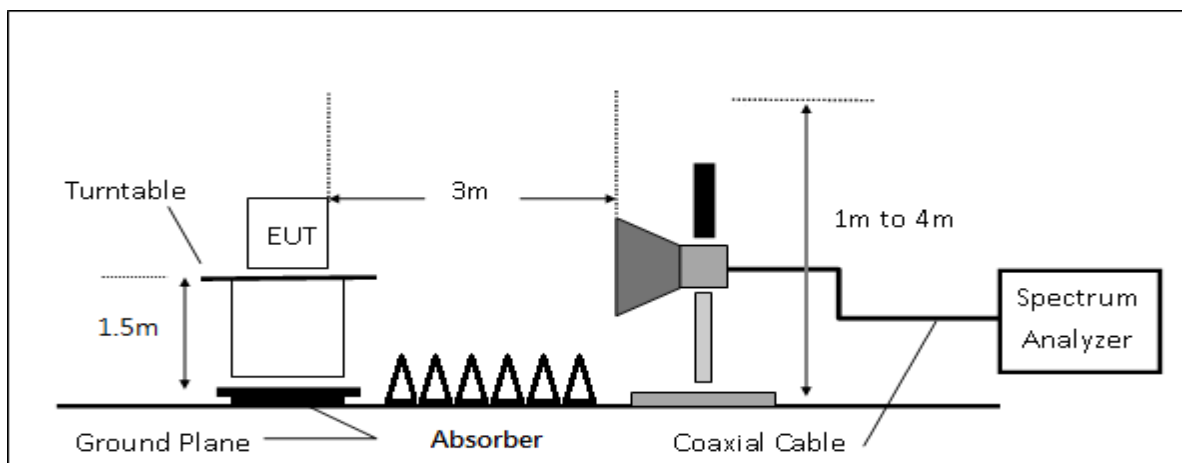
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. 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 $\geq 1/T$ (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

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

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

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

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

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

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

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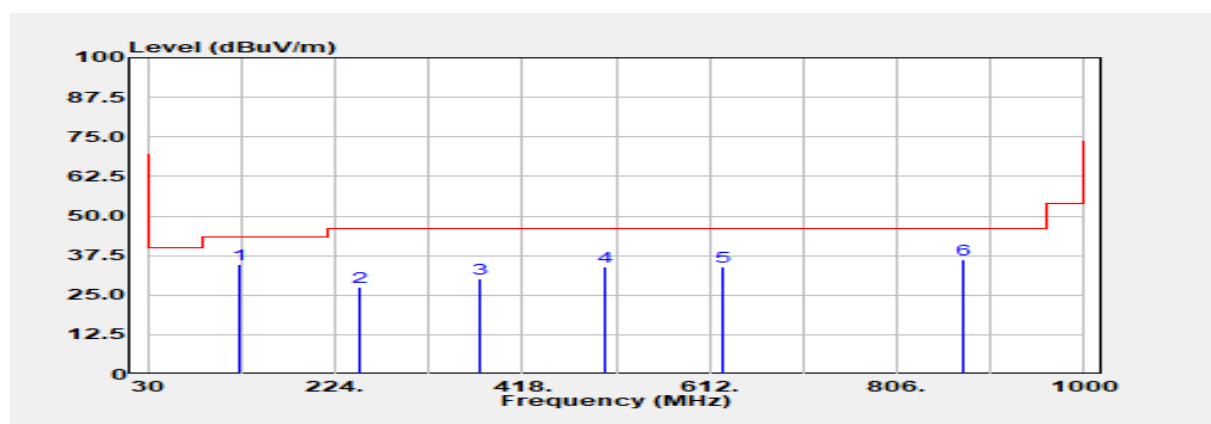
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11.7 Radiated Spurious Emission Measurement Result

11.7.1 Below 1GHz Worst-Case Data:

Report Number	:E2/2020/B0037	Test Site	:966 Chamber D
Operation Mode	:802.11a / Band 2	Test Date	:2020-12-25
Test Frequency	:5300 MHz	Temp./Humi.	:20.3/66
Test Mode	:TX CH MID	Antenna Pol.	:Vertical
EUT Pol	:H Plan	Engineer	:Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
124.824	Peak	53.63	-18.84	34.79	43.50	-8.71
249.183	Peak	45.86	-18.14	27.72	46.00	-18.28
375.096	Peak	44.76	-14.52	30.24	46.00	-15.76
504.119	Peak	45.55	-11.66	33.89	46.00	-12.11
625.369	Peak	43.36	-9.21	34.14	46.00	-11.86
875.641	Peak	42.66	-6.25	36.41	46.00	-9.59

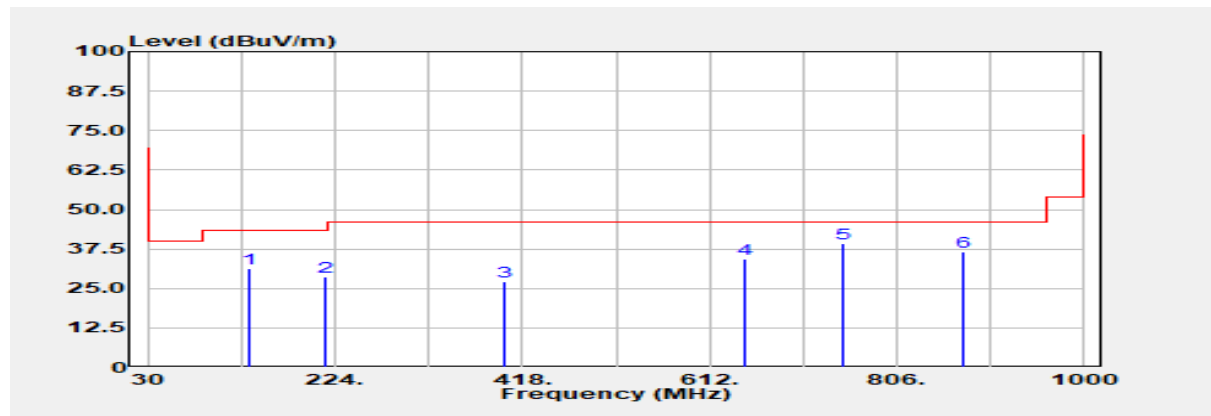
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Report Number :E2/2020/B0037
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-25
Temp./Humi. :20.3/66
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
134.151	Peak	49.31	-17.96	31.34	43.50	-12.16
214.984	Peak	48.62	-19.92	28.69	43.50	-14.81
398.414	Peak	40.89	-13.77	27.12	46.00	-18.88
648.686	Peak	43.01	-8.60	34.42	46.00	-11.58
749.728	Peak	46.94	-7.66	39.28	46.00	-6.72
875.641	Peak	42.80	-6.25	36.55	46.00	-9.45

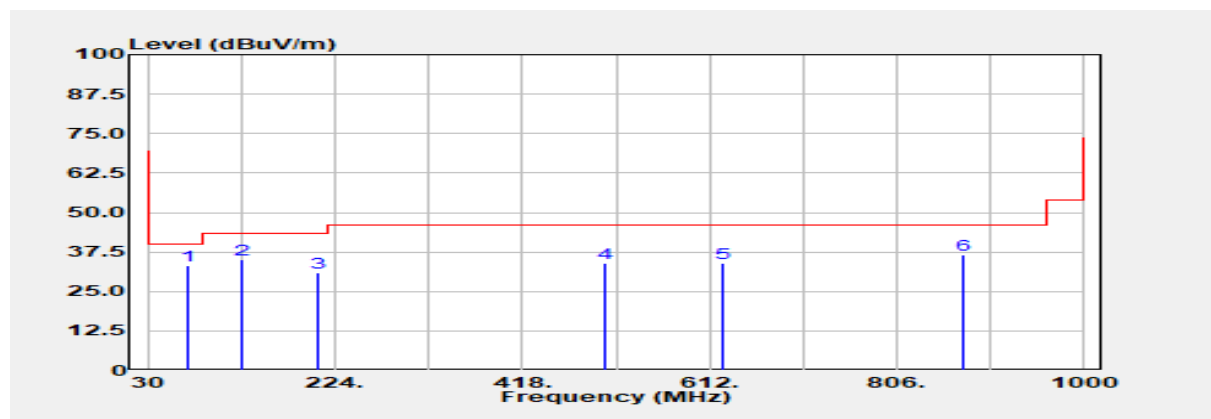
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Report Number :E2/2020/B0037
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-25
Temp./Humi. :20.3/66
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
71.971	Peak	52.54	-19.50	33.05	40.00	-6.95
127.933	Peak	53.56	-18.55	35.01	43.50	-8.49
205.657	Peak	50.84	-19.84	31.00	43.50	-12.50
504.119	Peak	45.79	-11.66	34.12	46.00	-11.88
625.369	Peak	43.04	-9.21	33.83	46.00	-12.17
875.641	Peak	42.71	-6.25	36.46	46.00	-9.54

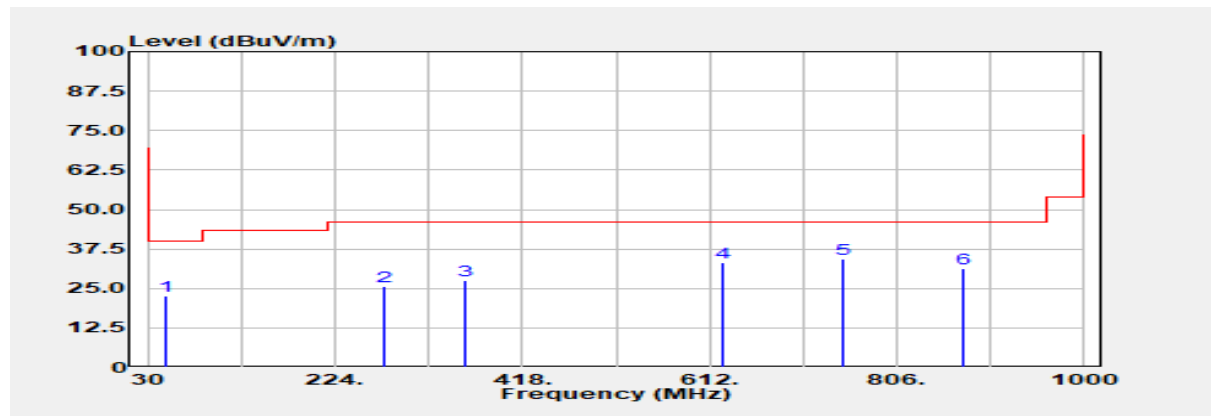
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Report Number :E2/2020/B0037
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-25
Temp./Humi. :20.3/66
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
48.654	Peak	40.42	-17.69	22.73	40.00	-17.27
275.609	Peak	42.39	-16.88	25.51	46.00	-20.49
359.551	Peak	42.67	-14.99	27.69	46.00	-18.31
625.369	Peak	42.30	-9.21	33.09	46.00	-12.91
749.728	Peak	41.97	-7.66	34.31	46.00	-11.69
875.641	Peak	37.54	-6.25	31.29	46.00	-14.71

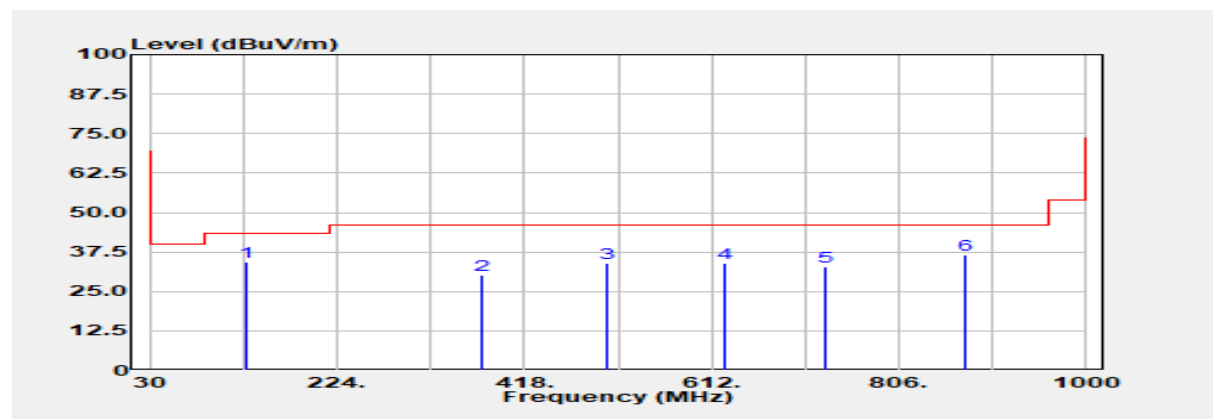
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Report Number :E2/2020/B0037
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-25
Temp./Humi. :20.3/66
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
129.487	Peak	52.58	-18.33	34.25	43.50	-9.25
375.096	Peak	44.55	-14.52	30.03	46.00	-15.97
504.119	Peak	45.55	-11.66	33.89	46.00	-12.11
625.369	Peak	43.23	-9.21	34.02	46.00	-11.98
729.519	Peak	40.21	-7.24	32.97	46.00	-13.03
875.641	Peak	42.74	-6.25	36.49	46.00	-9.51

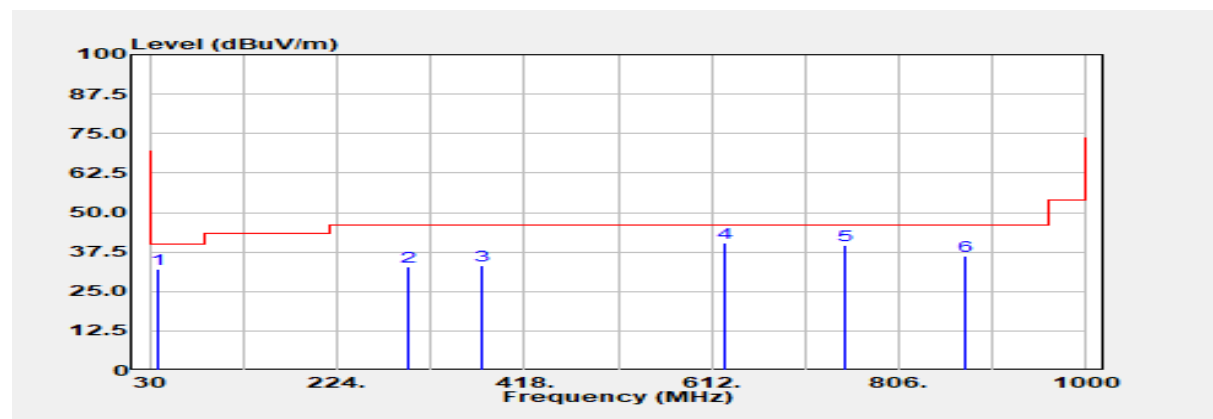
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Report Number :E2/2020/B0037
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-25
Temp./Humi. :20.3/66
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
37.772	Peak	50.44	-18.23	32.22	40.00	-7.78
298.926	Peak	48.98	-16.13	32.85	46.00	-13.15
375.096	Peak	47.87	-14.52	33.35	46.00	-12.65
625.369	Peak	49.69	-9.21	40.48	46.00	-5.52
749.728	Peak	47.45	-7.66	39.79	46.00	-6.21
875.641	Peak	42.31	-6.25	36.06	46.00	-9.94

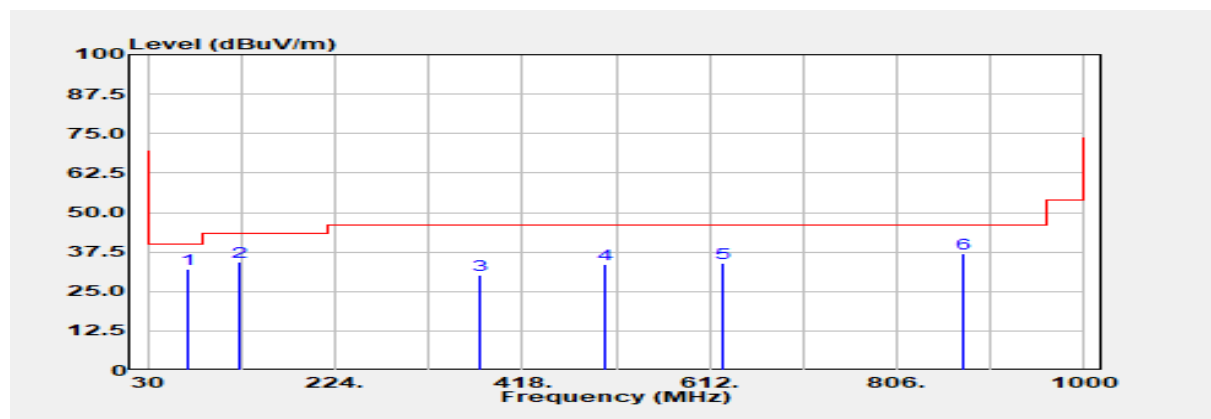
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Report Number :E2/2020/B0037
Operation Mode :802.11ac80 / Band 3
Test Frequency :5610 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-25
Temp./Humi. :20.3/66
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
71.971	Peak	51.46	-19.50	31.97	40.00	-8.03
124.824	Peak	53.22	-18.84	34.38	43.50	-9.12
375.096	Peak	44.76	-14.52	30.24	46.00	-15.76
504.119	Peak	45.23	-11.66	33.57	46.00	-12.43
625.369	Peak	43.32	-9.21	34.11	46.00	-11.89
875.641	Peak	43.18	-6.25	36.93	46.00	-9.07

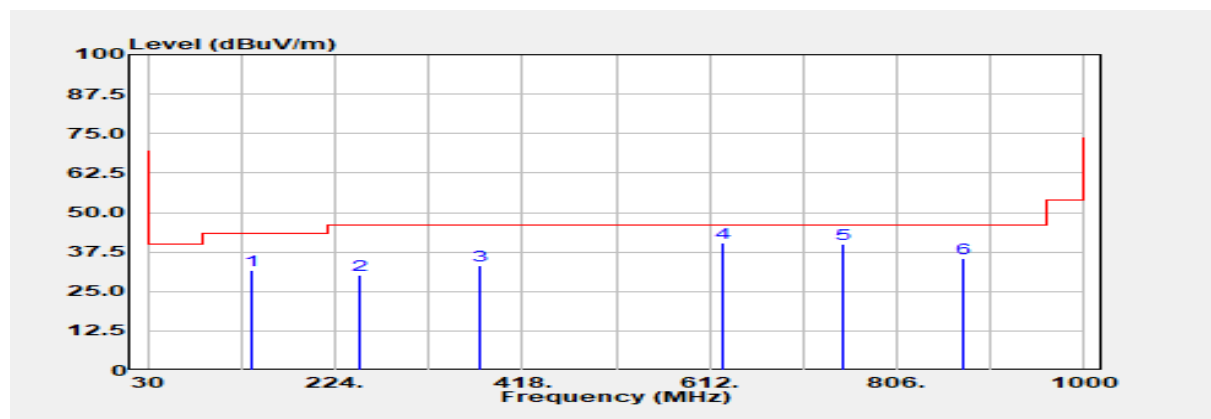
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Report Number :E2/2020/B0037
Operation Mode :802.11ac80 / Band 3
Test Frequency :5610 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-25
Temp./Humi. :20.3/66
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
137.260	Peak	49.29	-17.48	31.80	43.50	-11.70
249.183	Peak	48.41	-18.14	30.27	46.00	-15.73
375.096	Peak	47.60	-14.52	33.08	46.00	-12.92
625.369	Peak	49.77	-9.21	40.56	46.00	-5.44
749.728	Peak	47.65	-7.66	39.99	46.00	-6.01
875.641	Peak	41.71	-6.25	35.46	46.00	-10.54

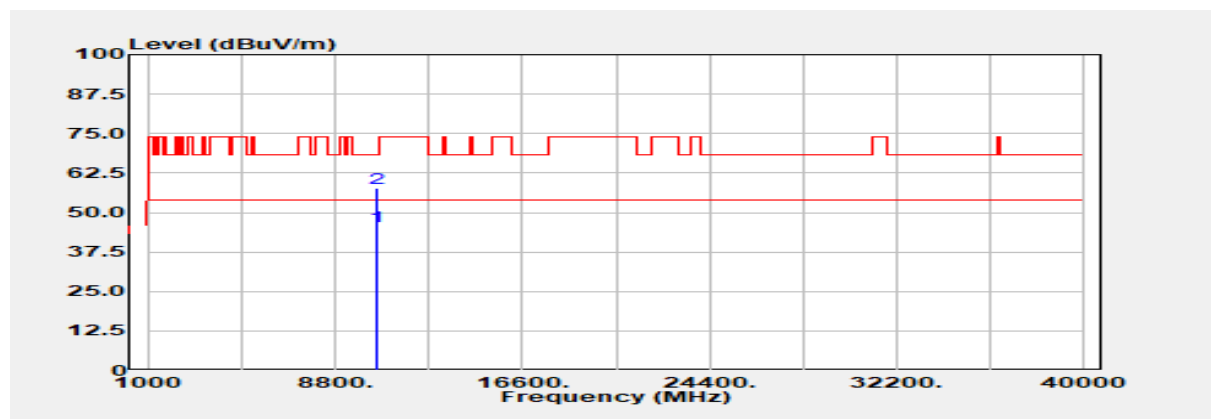
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11.7.2 Above 1GHz Worst-Case Data:

Report Number	:E2/2020/B0037	Test Site	:966 Chamber D
Operation Mode	:802.11a / Band 2	Test Date	:2021-01-06
Test Frequency	:5260 MHz	Temp./Humi.	:21.3/61
Test Mode	:TX CH LOW	Antenna Pol.	:Vertical
EUT Pol	:H Plan	Engineer	:Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.000	Average	38.78	6.79	45.57	54.00	-8.43
10520.000	Peak	50.88	6.79	57.68	68.20	-10.52

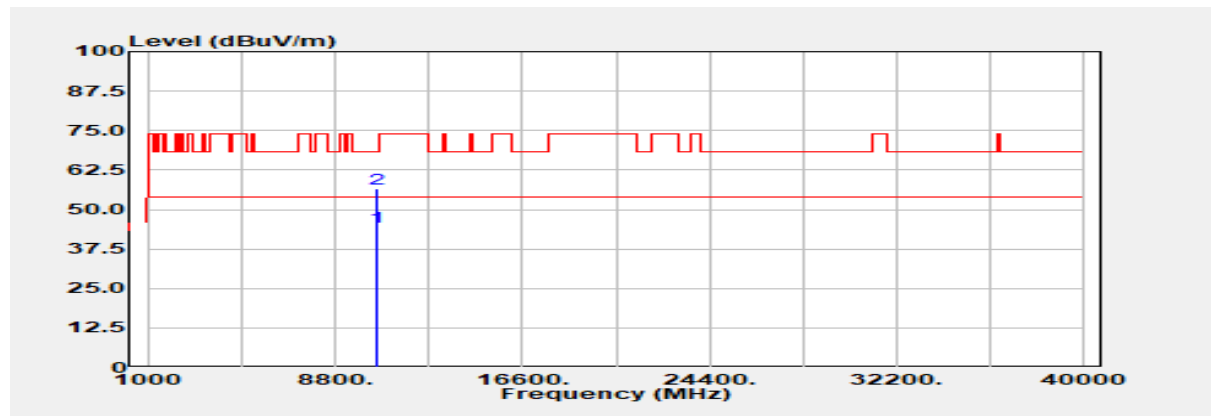
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Report Number :E2/2020/B0037
Operation Mode :802.11a / Band 2
Test Frequency :5260 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.000	Average	37.88	6.79	44.67	54.00	-9.33
10520.000	Peak	49.64	6.79	56.43	68.20	-11.77

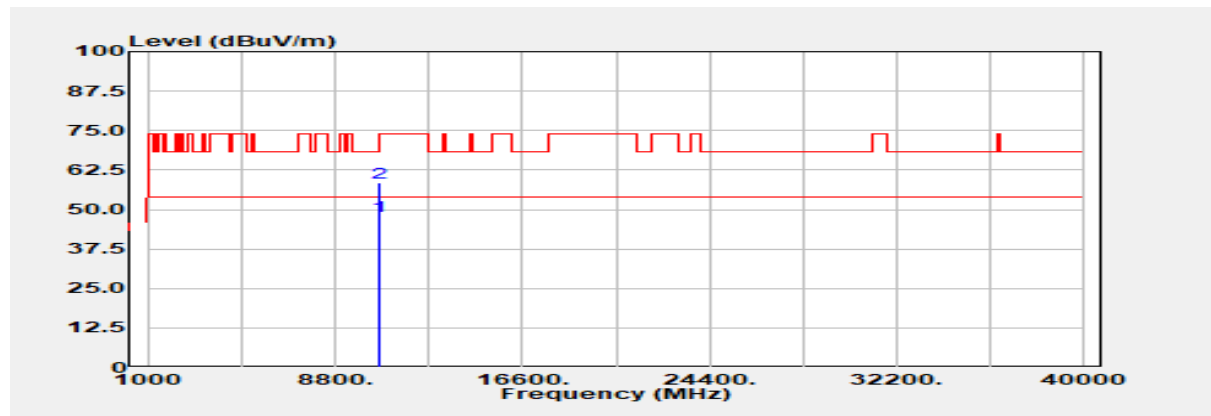
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Report Number :E2/2020/B0037
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.000	Average	40.88	7.20	48.08	54.00	-5.92
10600.000	Peak	51.44	7.20	58.65	74.00	-15.35

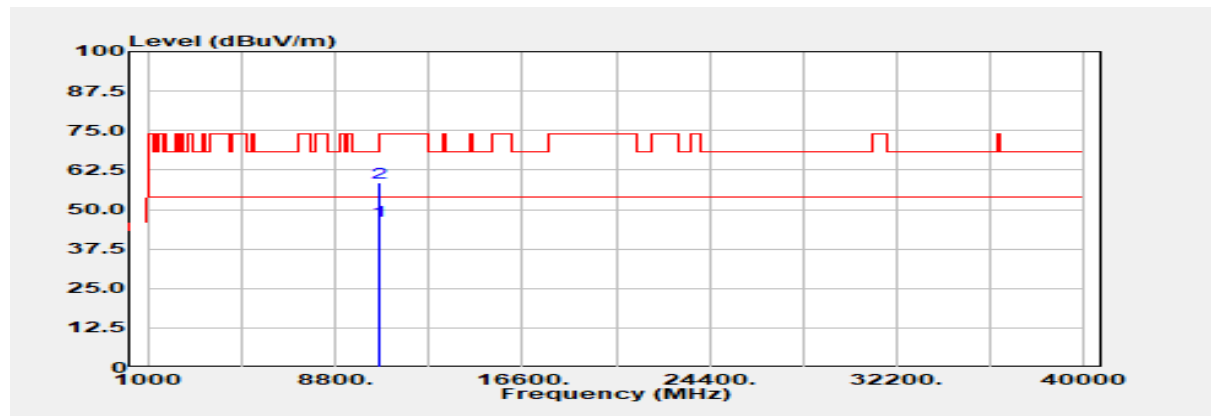
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Report Number :E2/2020/B0037
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.000	Average	39.26	7.20	46.46	54.00	-7.54
10600.000	Peak	51.36	7.20	58.56	74.00	-15.44

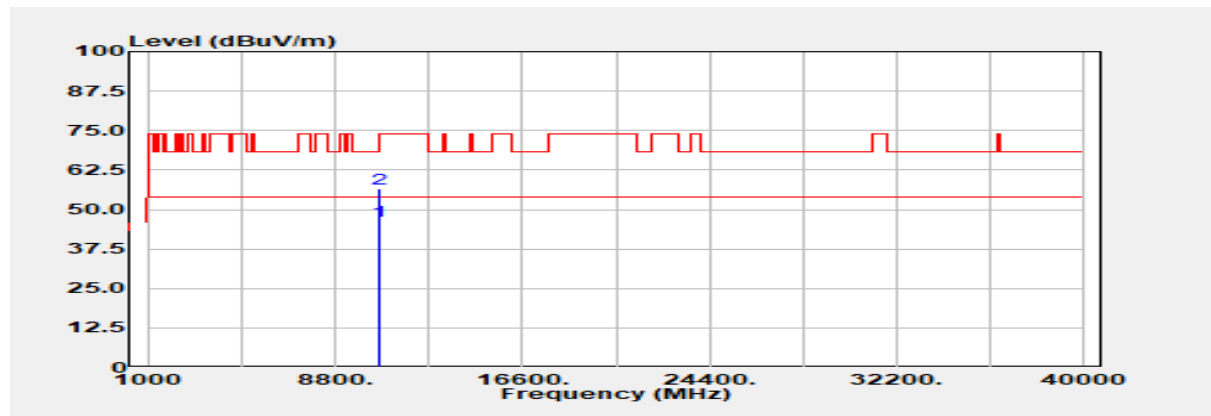
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Report Number :E2/2020/B0037
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.000	Average	39.06	7.26	46.32	54.00	-7.68
10640.000	Peak	49.32	7.26	56.58	74.00	-17.42

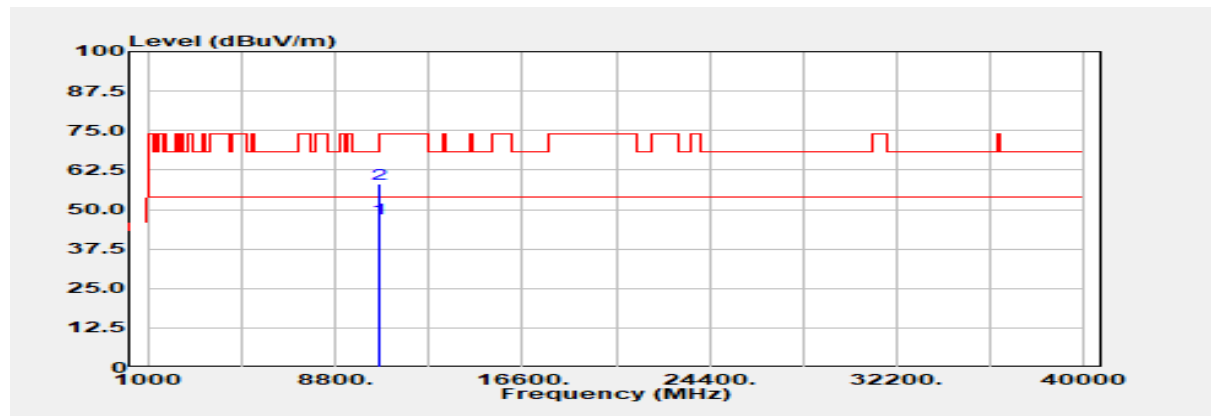
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Report Number :E2/2020/B0037
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.000	Average	39.96	7.26	47.22	54.00	-6.78
10640.000	Peak	50.90	7.26	58.16	74.00	-15.84

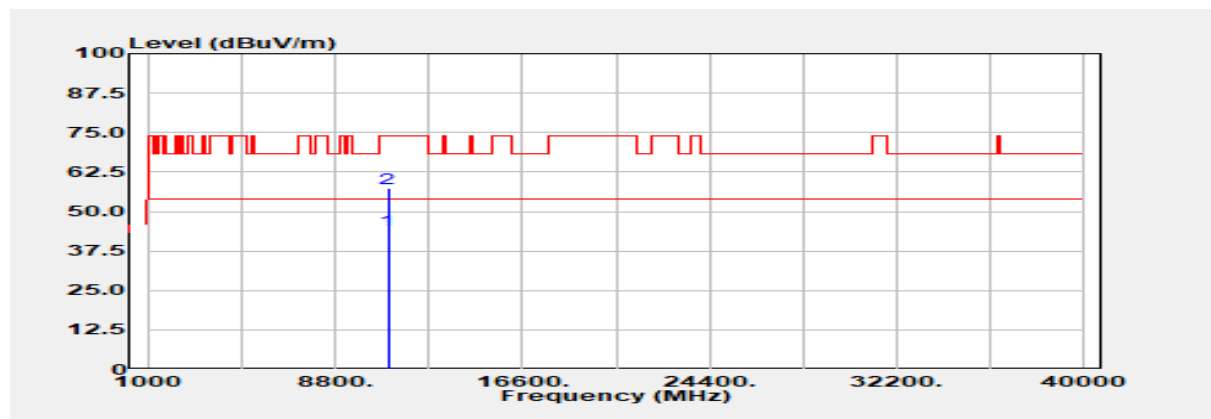
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Report Number :E2/2020/B0037
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.000	Average	35.72	8.48	44.20	54.00	-9.80
11000.000	Peak	49.04	8.48	57.52	74.00	-16.48

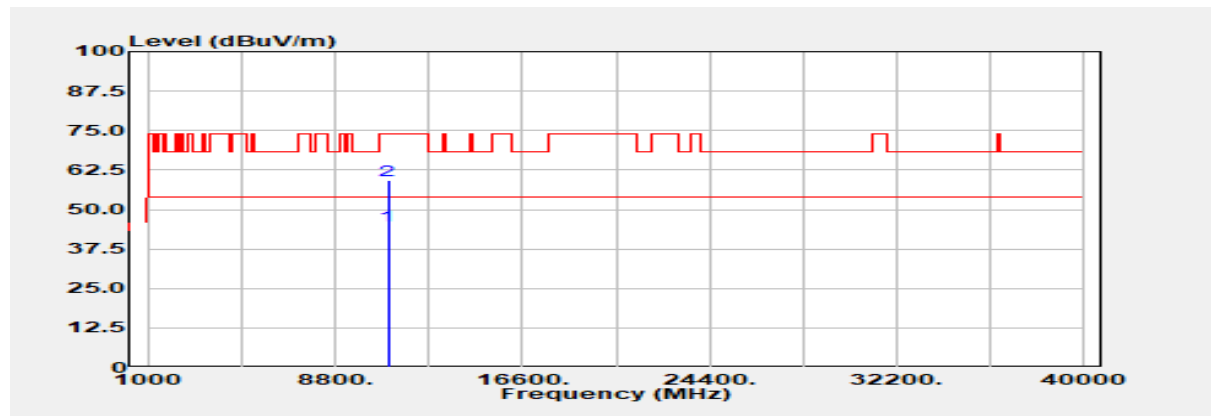
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Report Number :E2/2020/B0037
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11000.000	Average	36.44	8.48	44.92	54.00	-9.08
11000.000	Peak	50.69	8.48	59.17	74.00	-14.83

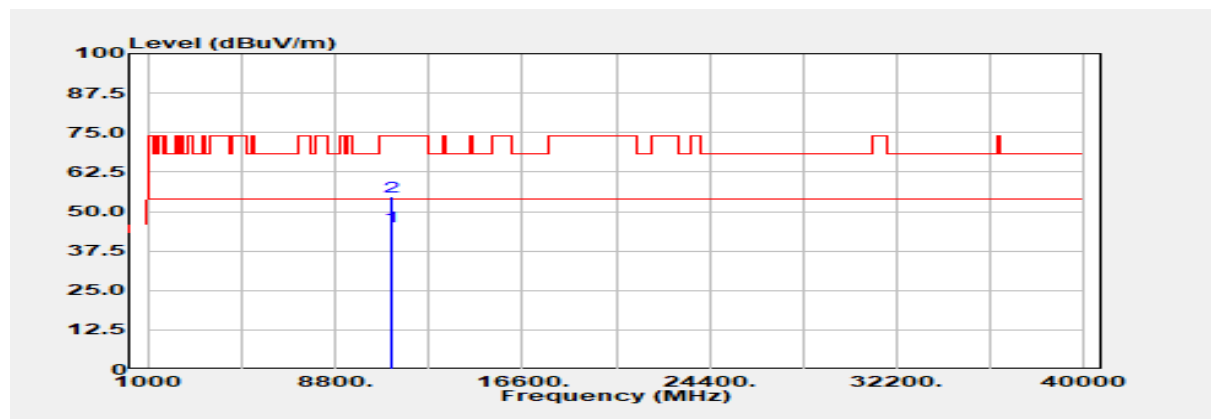
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Report Number :E2/2020/B0037
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.000	Average	37.30	7.85	45.15	54.00	-8.85
11160.000	Peak	46.91	7.85	54.76	74.00	-19.24

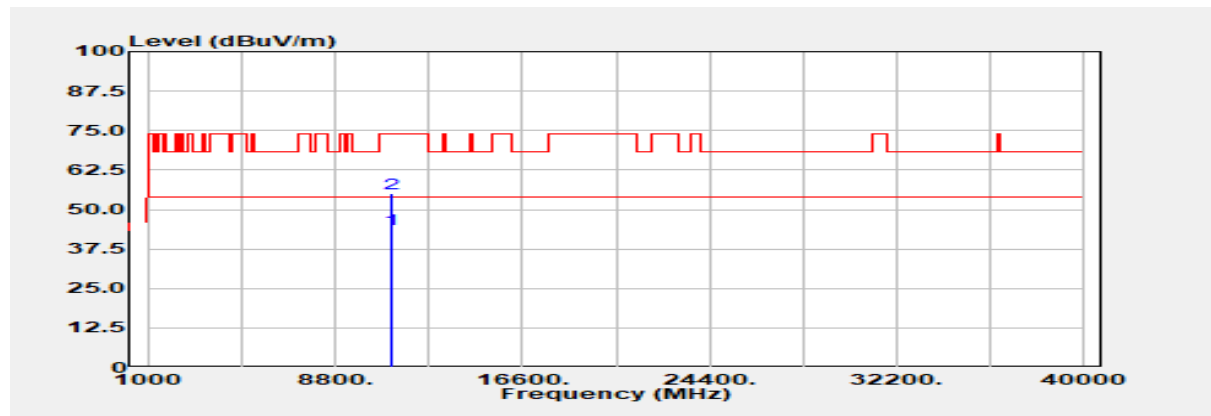
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Report Number :E2/2020/B0037
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11160.000	Average	35.75	7.85	43.60	54.00	-10.40
11160.000	Peak	47.22	7.85	55.07	74.00	-18.93

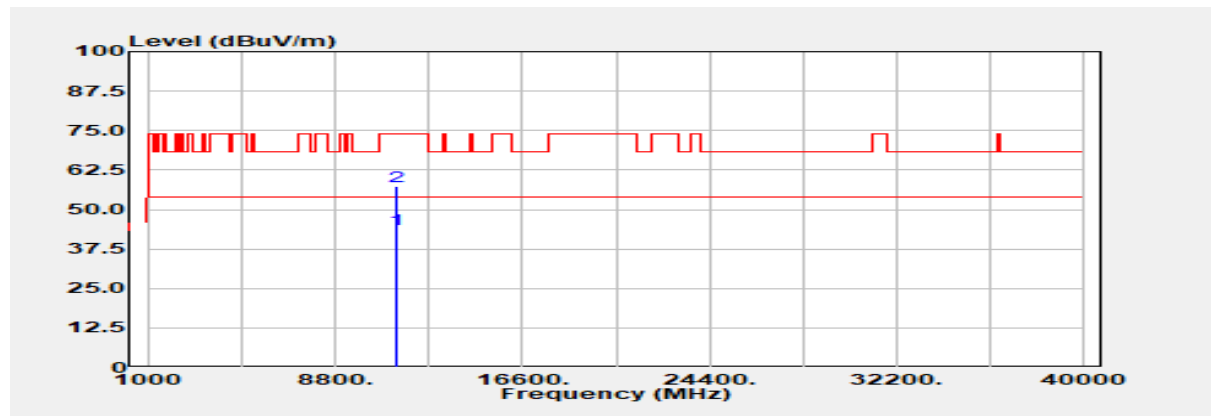
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Report Number :E2/2020/B0037
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11400.000	Average	35.14	8.45	43.59	54.00	-10.41
11400.000	Peak	49.07	8.45	57.52	74.00	-16.48

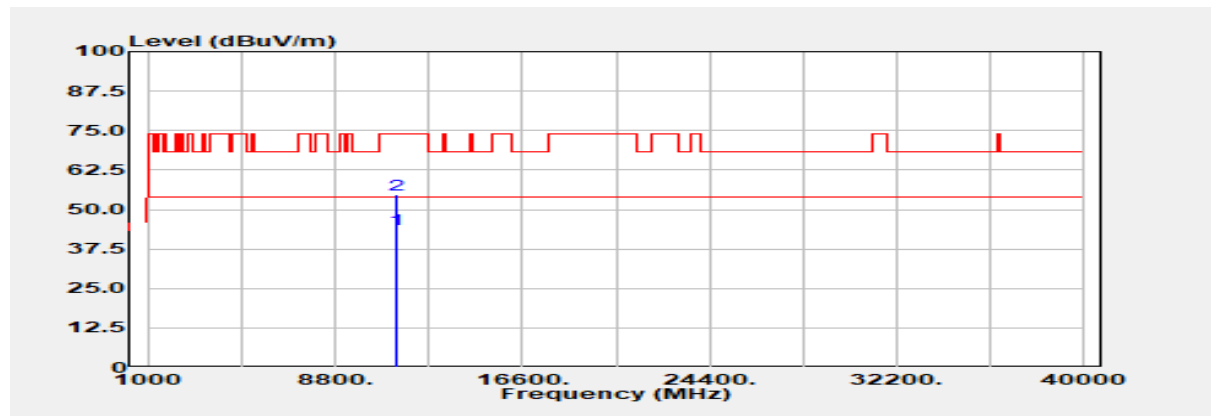
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Report Number :E2/2020/B0037
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11400.000	Average	35.27	8.45	43.73	54.00	-10.27
11400.000	Peak	46.44	8.45	54.90	74.00	-19.10

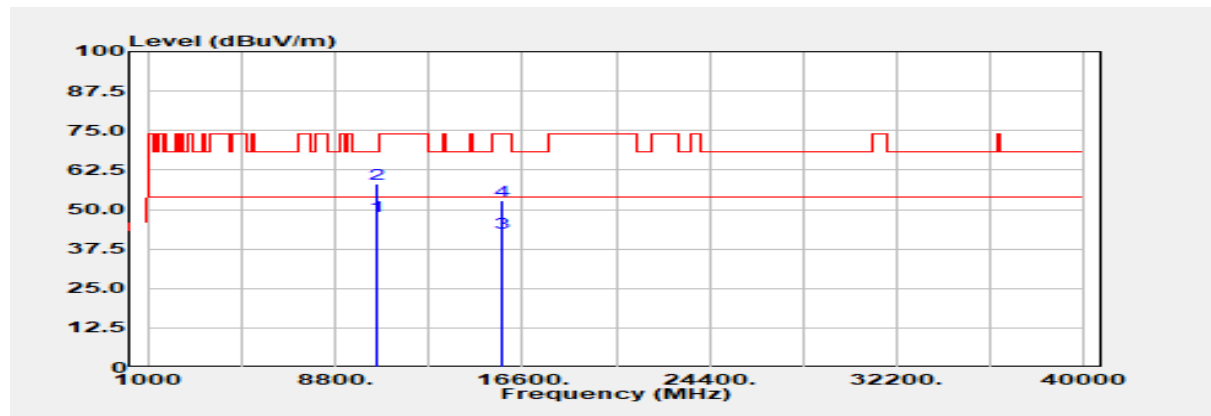
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Report Number :E2/2020/B0037
Operation Mode :802.11n20 / Band 2
Test Frequency :5260 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.000	Average	41.07	6.79	47.86	54.00	-6.14
10520.000	Peak	51.33	6.79	58.12	68.20	-10.08
15780.000	Average	37.28	5.30	42.58	54.00	-11.42
15780.000	Peak	47.46	5.30	52.76	74.00	-21.24

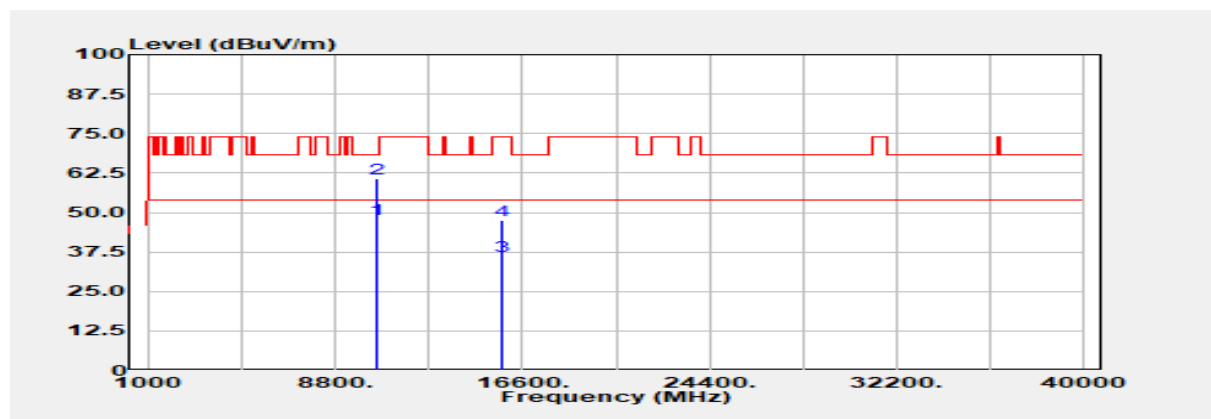
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Report Number :E2/2020/B0037
Operation Mode :802.11n20 / Band 2
Test Frequency :5260 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.000	Average	41.31	6.79	48.10	54.00	-5.90
10520.000	Peak	53.97	6.79	60.77	68.20	-7.43
15780.000	Average	30.78	5.30	36.08	54.00	-17.92
15780.000	Peak	42.25	5.30	47.55	74.00	-26.45

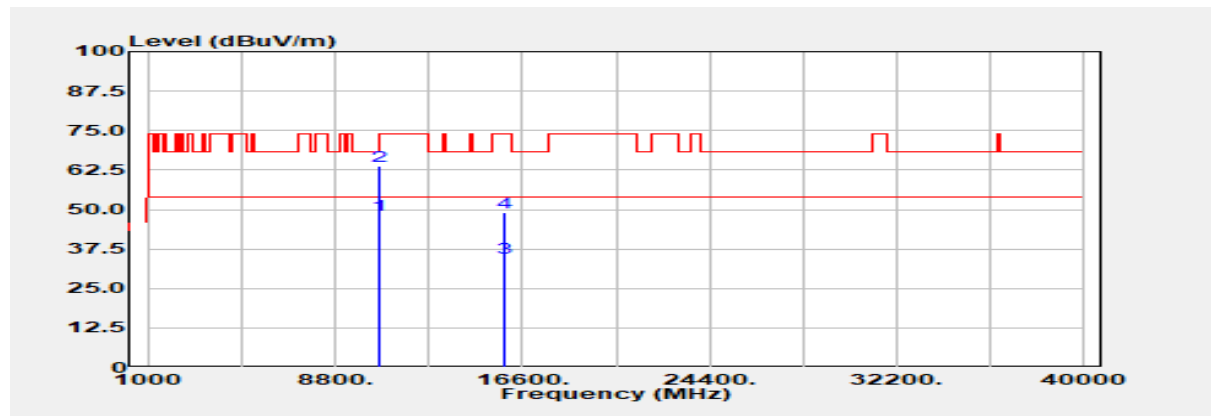
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Report Number :E2/2020/B0037
Operation Mode :802.11n20 / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.000	Average	41.16	7.20	48.36	54.00	-5.64
10600.000	Peak	56.67	7.20	63.87	74.00	-10.13
15900.000	Average	28.94	5.87	34.81	54.00	-19.19
15900.000	Peak	43.14	5.87	49.01	74.00	-24.99

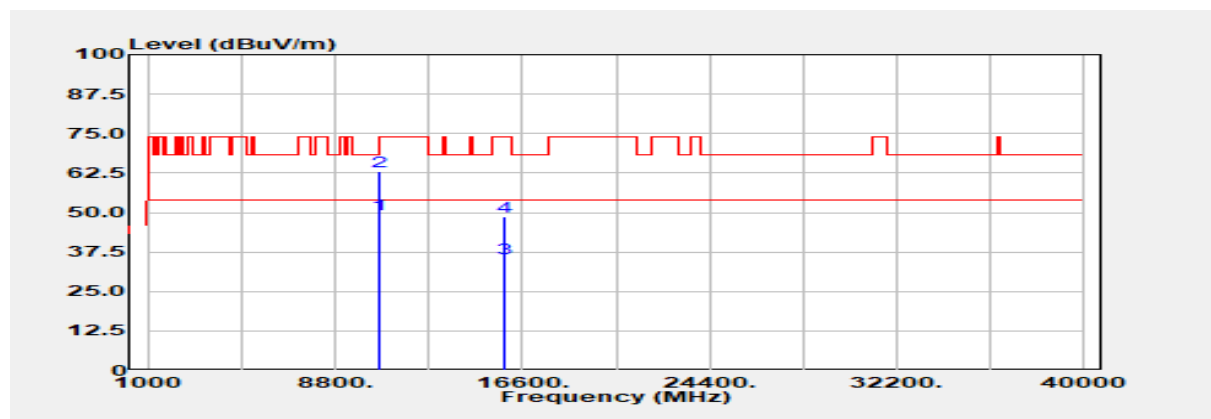
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Report Number :E2/2020/B0037
Operation Mode :802.11n20 / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.000	Average	42.10	7.20	49.30	54.00	-4.70
10600.000	Peak	55.70	7.20	62.90	74.00	-11.10
15900.000	Average	29.43	5.87	35.30	54.00	-18.70
15900.000	Peak	42.74	5.87	48.61	74.00	-25.39

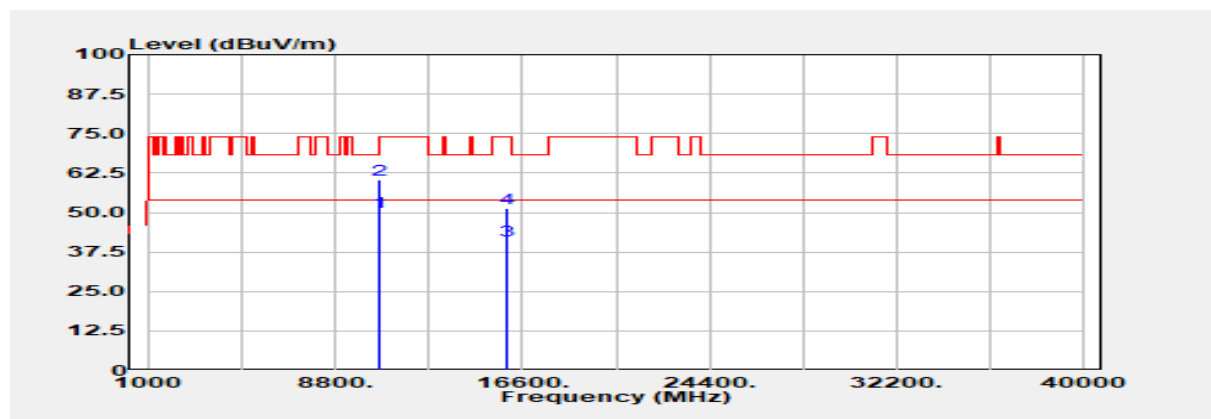
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Report Number :E2/2020/B0037
Operation Mode :802.11n20 / Band 2
Test Frequency :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.000	Average	43.02	7.26	50.28	54.00	-3.72
10640.000	Peak	53.11	7.26	60.37	74.00	-13.63
15960.000	Average	35.13	5.97	41.10	54.00	-12.90
15960.000	Peak	45.25	5.97	51.22	74.00	-22.78

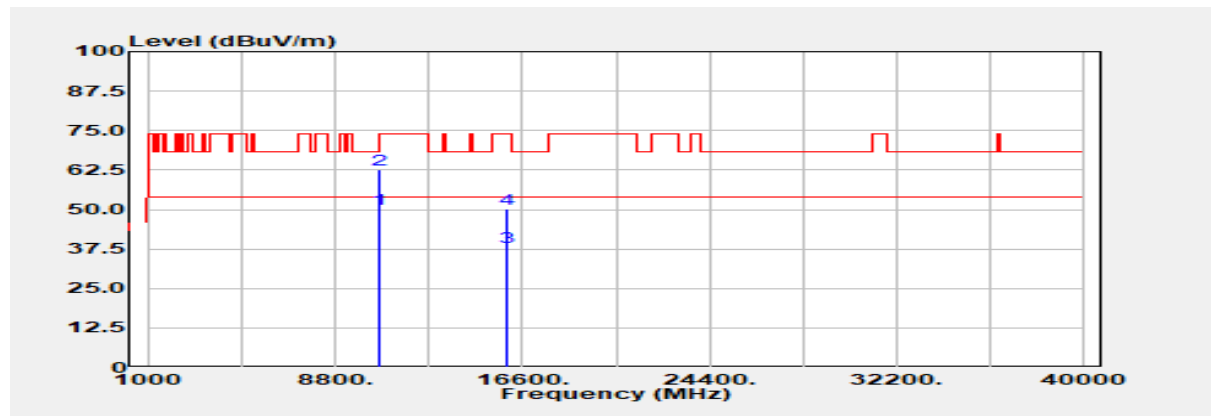
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Report Number :E2/2020/B0037
Operation Mode :802.11n20 / Band 2
Test Frequency :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.000	Average	42.98	7.26	50.24	54.00	-3.76
10640.000	Peak	55.53	7.26	62.79	74.00	-11.21
15960.000	Average	31.96	5.97	37.93	54.00	-16.07
15960.000	Peak	44.09	5.97	50.06	74.00	-23.94

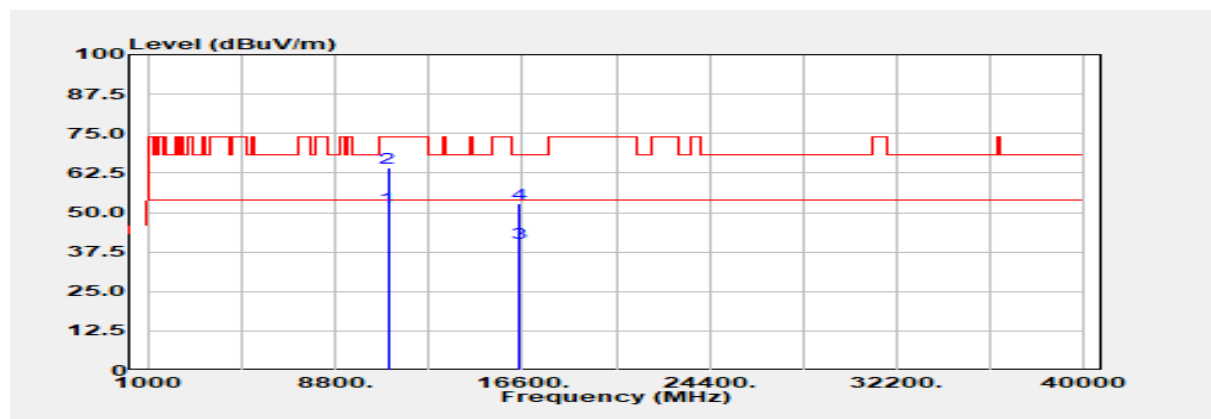
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Report Number :E2/2020/B0037
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11000.000	Average	43.40	8.48	51.88	54.00	-2.12
11000.000	Peak	55.77	8.48	64.25	74.00	-9.75
16500.000	Average	33.26	6.99	40.26	54.00	-13.74
16500.000	Peak	45.75	6.99	52.75	68.20	-15.45

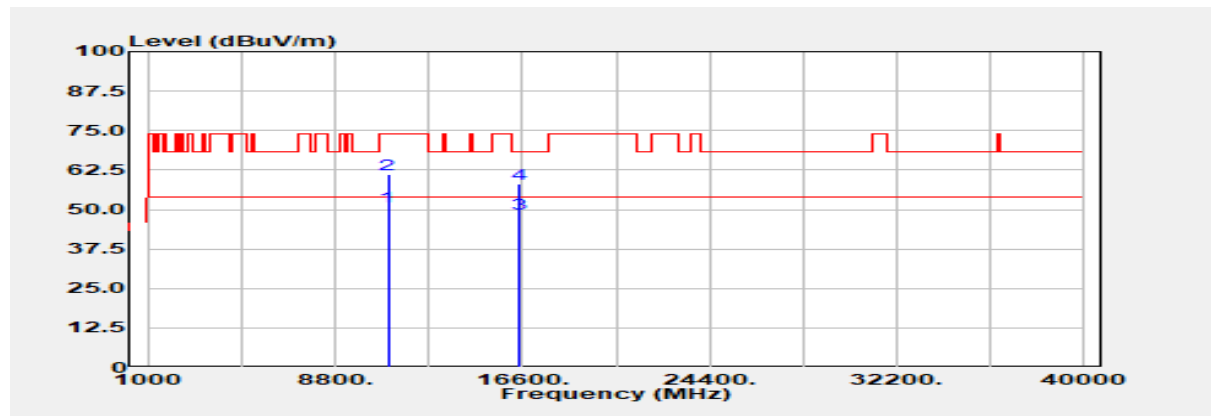
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Report Number :E2/2020/B0037
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11000.000	Average	42.50	8.48	50.98	54.00	-3.02
11000.000	Peak	52.65	8.48	61.13	74.00	-12.87
16500.000	Average	41.62	6.99	48.61	54.00	-5.39
16500.000	Peak	51.00	6.99	57.99	68.20	-10.21

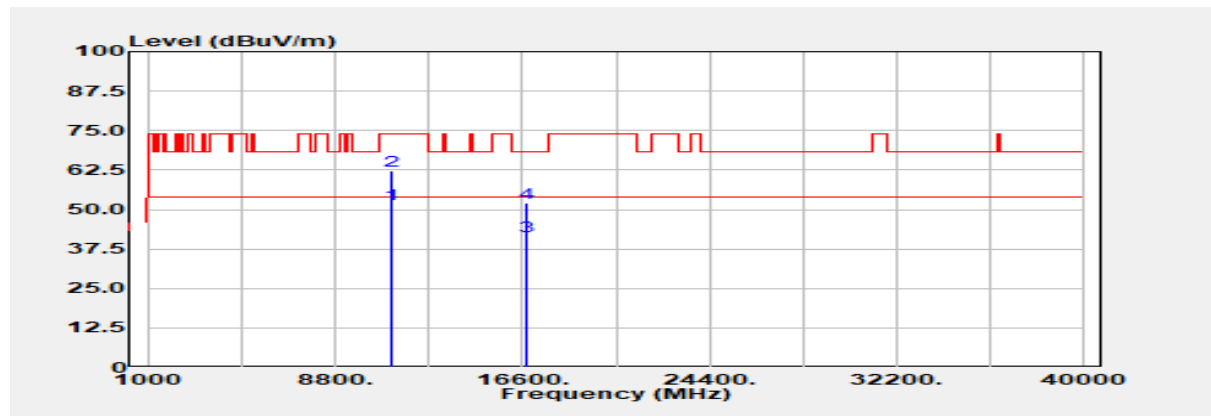
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Report Number :E2/2020/B0037
Operation Mode :802.11n20 / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-06
Temp./Humi. :21.3/61
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11160.000	Average	43.71	7.85	51.56	54.00	-2.44
11160.000	Peak	54.46	7.85	62.32	74.00	-11.68
16740.000	Average	33.82	7.53	41.35	54.00	-12.65
16740.000	Peak	44.64	7.53	52.17	68.20	-16.03

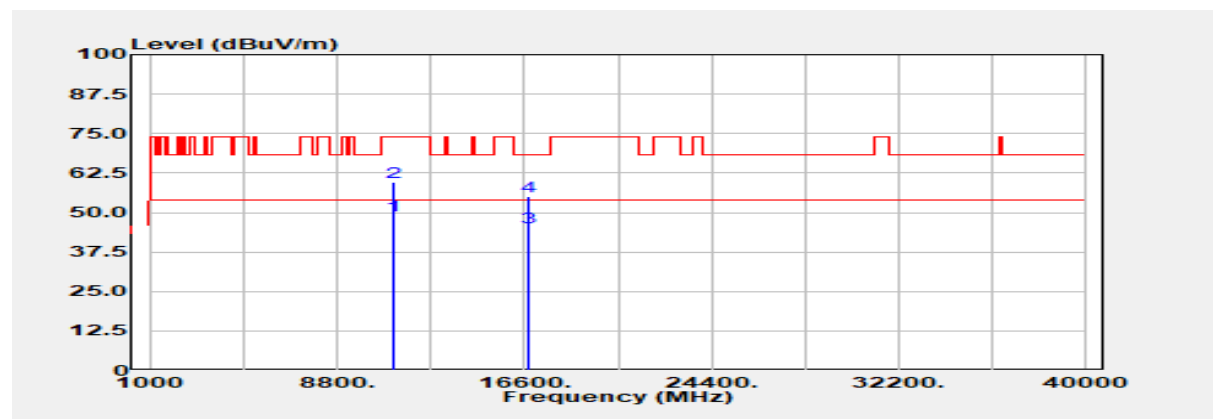
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Report Number :E2/2020/B0037
Operation Mode :802.11n20 / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :21.3/61
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11160.000	Average	41.28	7.85	49.14	54.00	-4.86
11160.000	Peak	51.64	7.85	59.49	74.00	-14.51
16740.000	Average	37.69	7.53	45.22	54.00	-8.78
16740.000	Peak	47.66	7.53	55.19	68.20	-13.01

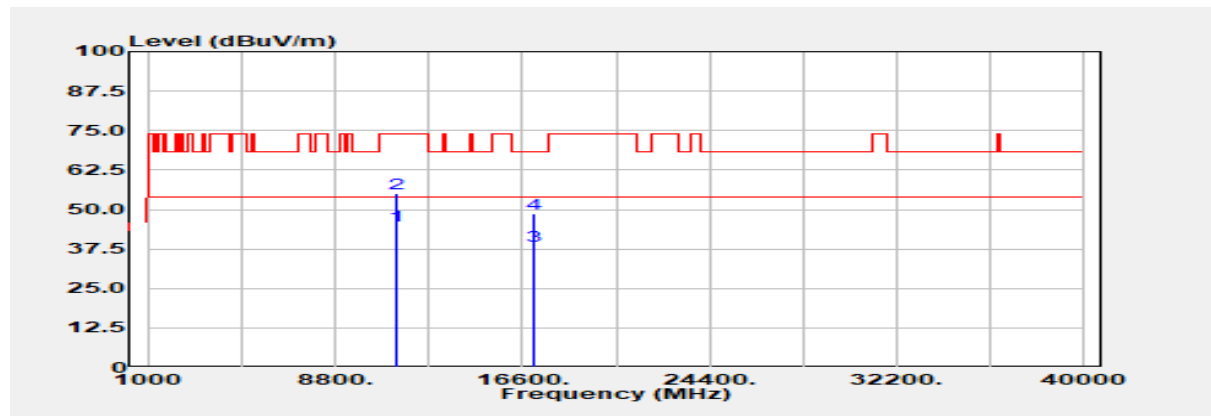
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Report Number :E2/2020/B0037
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :21.3/61
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11400.000	Average	36.58	8.45	45.03	54.00	-8.97
11400.000	Peak	46.50	8.45	54.95	74.00	-19.05
17100.000	Average	29.65	8.99	38.64	54.00	-15.36
17100.000	Peak	39.53	8.99	48.52	68.20	-19.68

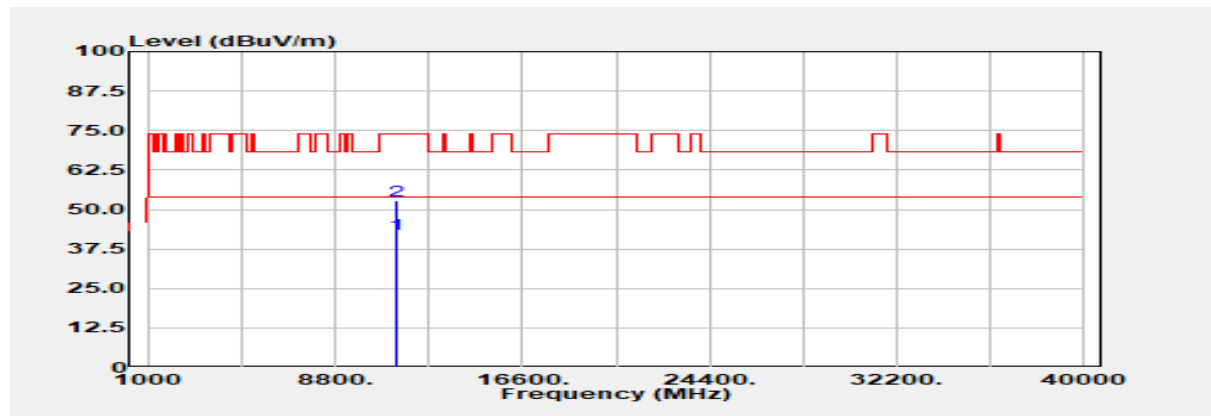
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Report Number :E2/2020/B0037
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :21.3/61
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11400.000	Average	33.95	8.45	42.40	54.00	-11.60
11400.000	Peak	44.34	8.45	52.79	74.00	-21.21

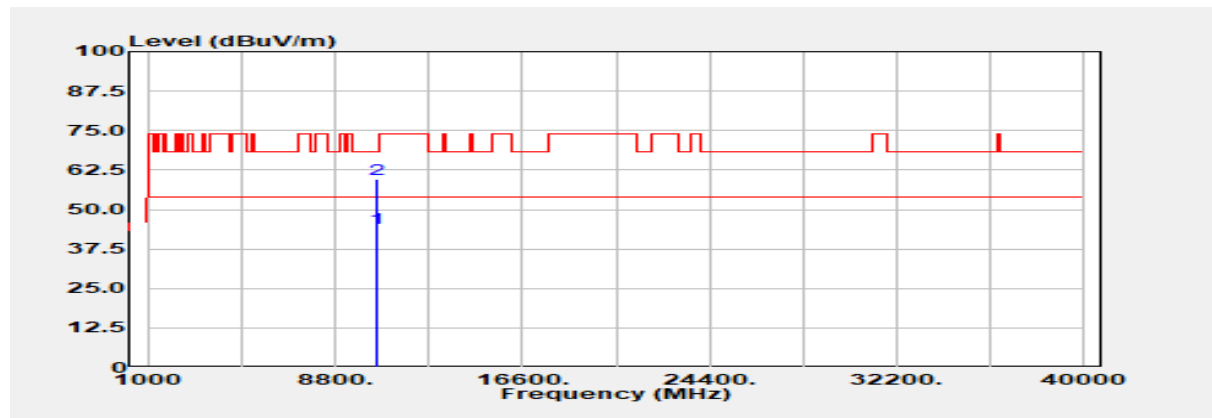
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Report Number :E2/2020/B0037
Operation Mode :802.11n40 / Band 2
Test Frequency :5270 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :20.8/62
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10540.000	Average	37.45	6.76	44.21	54.00	-9.79
10540.000	Peak	52.69	6.76	59.45	68.20	-8.75

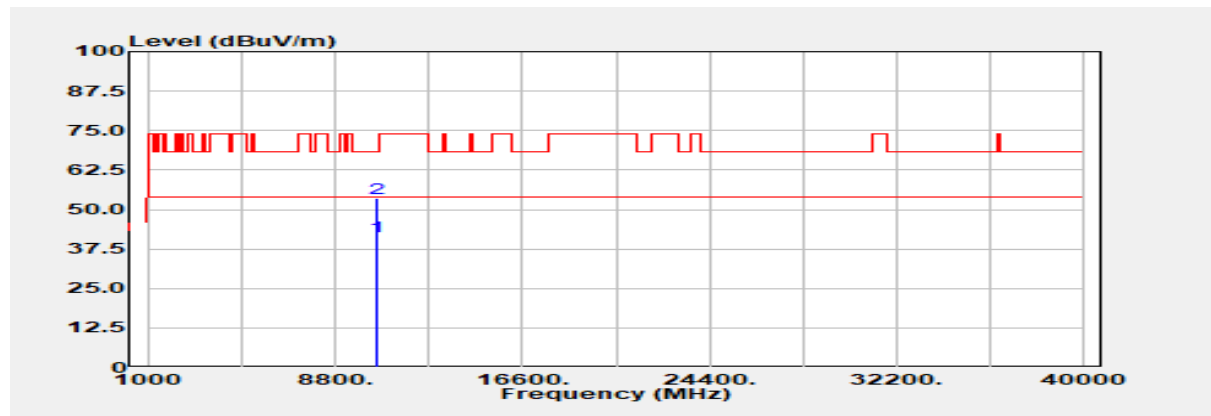
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Report Number :E2/2020/B0037
Operation Mode :802.11n40 / Band 2
Test Frequency :5270 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :20.8/62
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10540.000	Average	34.87	6.76	41.63	54.00	-12.37
10540.000	Peak	46.69	6.76	53.45	68.20	-14.75

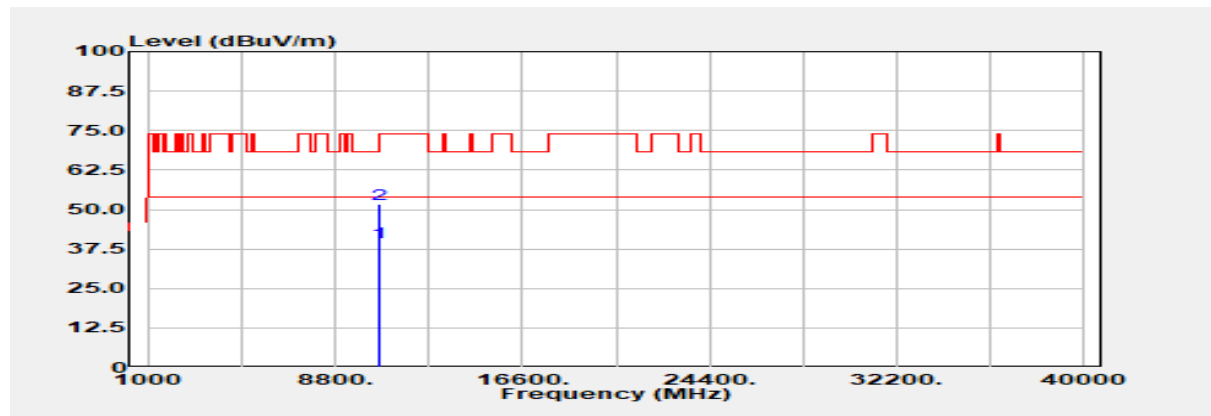
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Report Number :E2/2020/B0037
Operation Mode :802.11n40 / Band 2
Test Frequency :5310 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :20.8/62
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.000	Average	32.52	7.23	39.75	54.00	-14.25
10620.000	Peak	44.48	7.23	51.71	74.00	-22.29

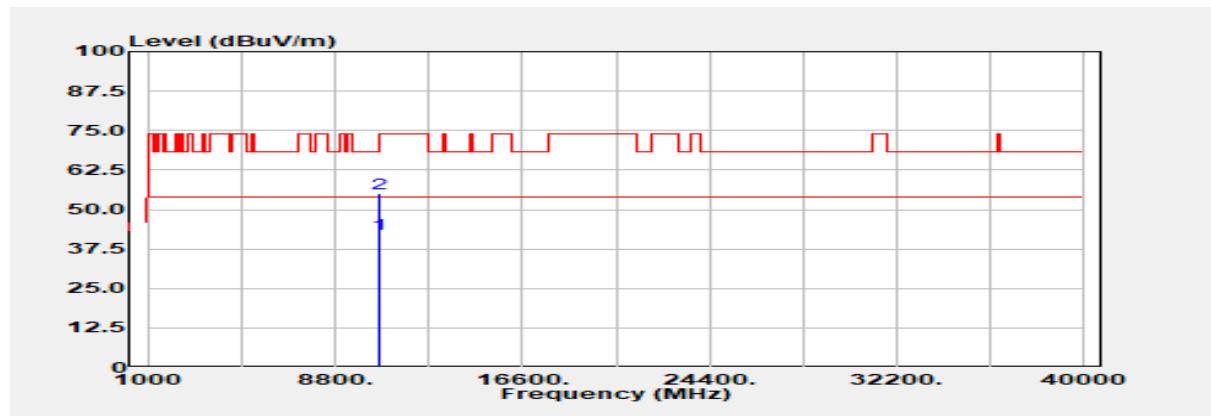
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Report Number :E2/2020/B0037
Operation Mode :802.11n40 / Band 2
Test Frequency :5310 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :20.8/62
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10620.000	Average	34.91	7.23	42.14	54.00	-11.86
10620.000	Peak	47.95	7.23	55.18	74.00	-18.82

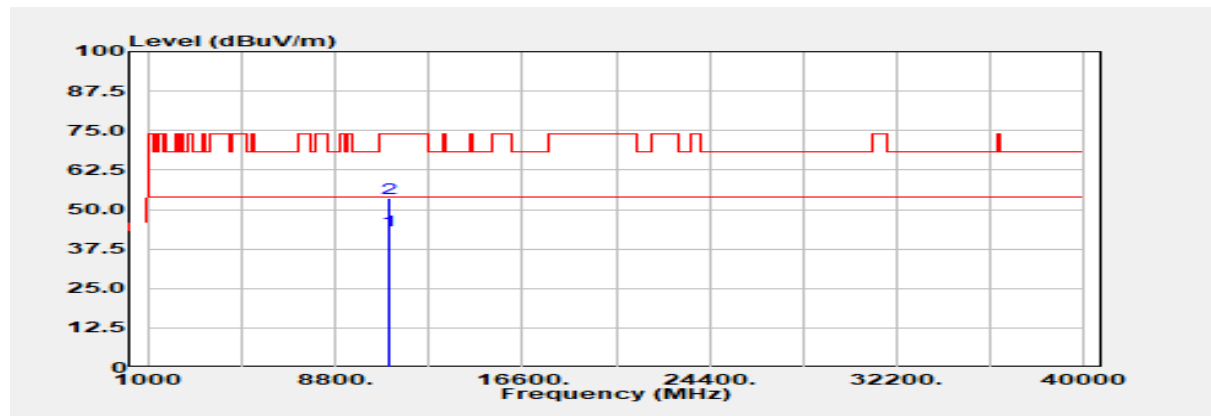
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Report Number :E2/2020/B0037
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :20.8/62
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11020.000	Average	34.87	8.36	43.23	54.00	-10.77
11020.000	Peak	45.07	8.36	53.43	74.00	-20.57

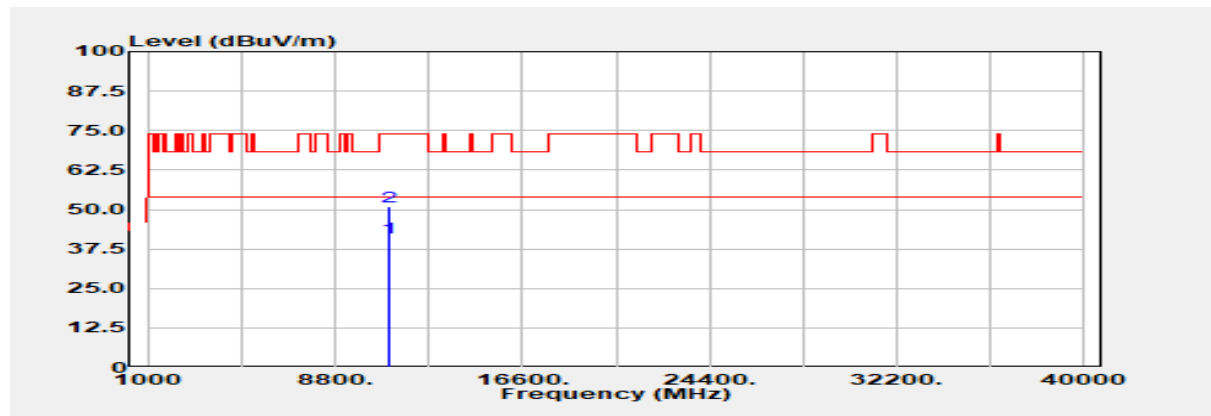
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Report Number :E2/2020/B0037
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :20.8/62
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11020.000	Average	32.86	8.36	41.22	54.00	-12.78
11020.000	Peak	42.59	8.36	50.95	74.00	-23.05

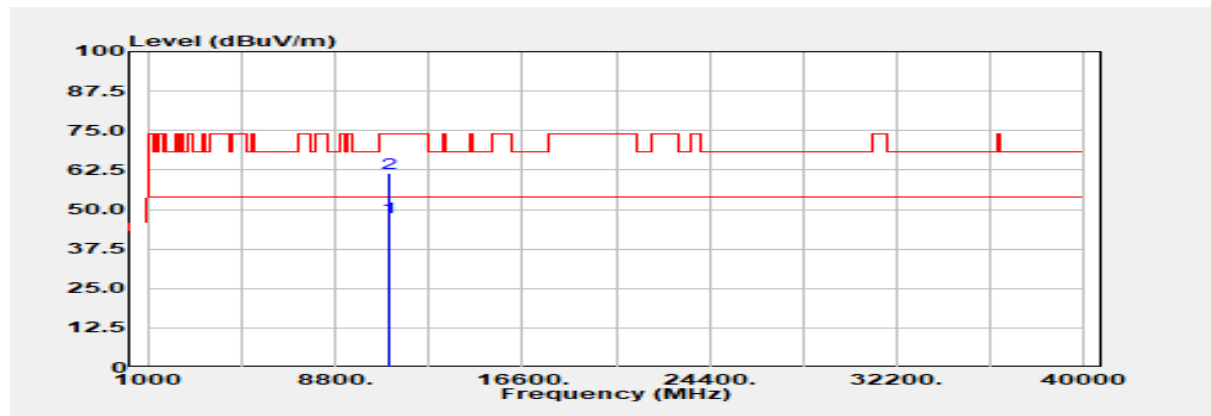
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Report Number :E2/2020/B0037
Operation Mode :802.11n40 / Band 3
Test Frequency :5550 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :20.8/62
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11100.000	Average	39.55	8.00	47.55	54.00	-6.45
11100.000	Peak	53.47	8.00	61.47	74.00	-12.53

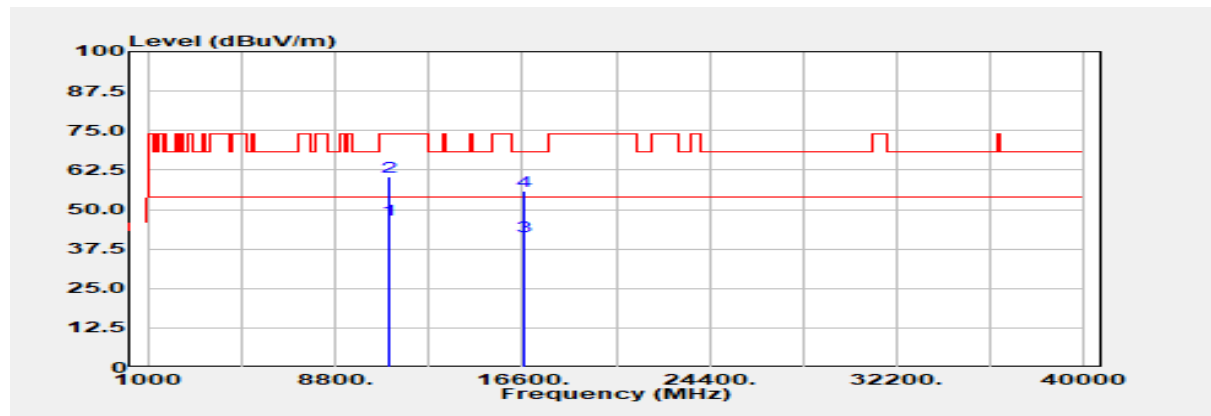
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Report Number :E2/2020/B0037
Operation Mode :802.11n40 / Band 3
Test Frequency :5550 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :20.8/62
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11100.000	Average	38.71	8.00	46.70	54.00	-7.30
11100.000	Peak	52.22	8.00	60.22	74.00	-13.78
16650.000	Average	34.52	7.11	41.63	54.00	-12.37
16650.000	Peak	48.84	7.11	55.95	68.20	-12.25

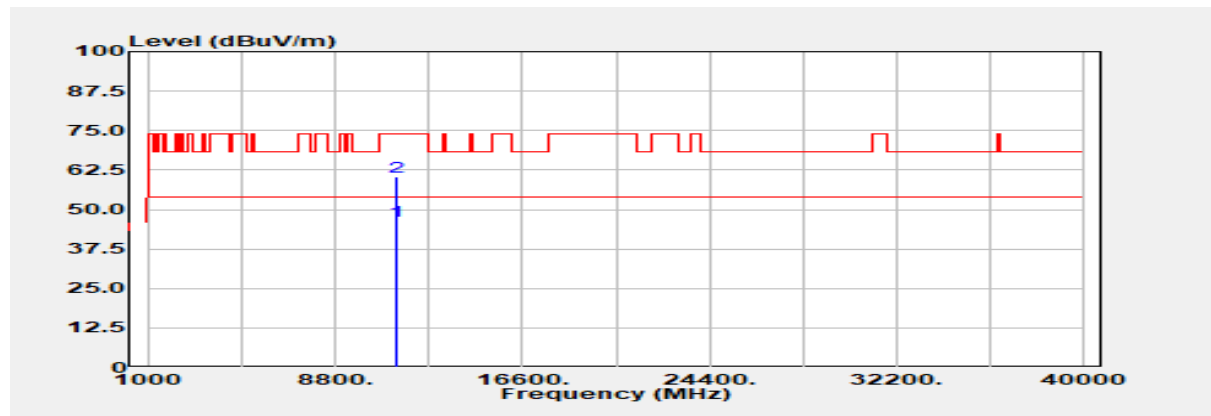
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Report Number :E2/2020/B0037
Operation Mode :802.11n40 / Band 3
Test Frequency :5670 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :20.8/62
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.000	Average	38.81	7.44	46.26	54.00	-7.74
11340.000	Peak	53.00	7.44	60.45	74.00	-13.55

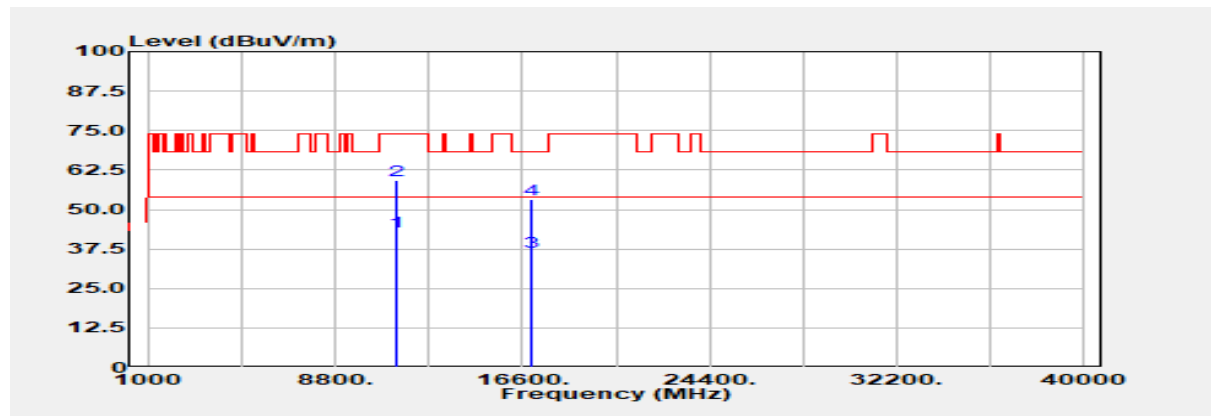
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Report Number :E2/2020/B0037
Operation Mode :802.11n40 / Band 3
Test Frequency :5670 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :20.8/62
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11340.000	Average	35.75	7.44	43.19	54.00	-10.81
11340.000	Peak	51.78	7.44	59.22	74.00	-14.78
17010.000	Average	28.26	8.51	36.77	54.00	-17.23
17010.000	Peak	44.64	8.51	53.15	68.20	-15.05

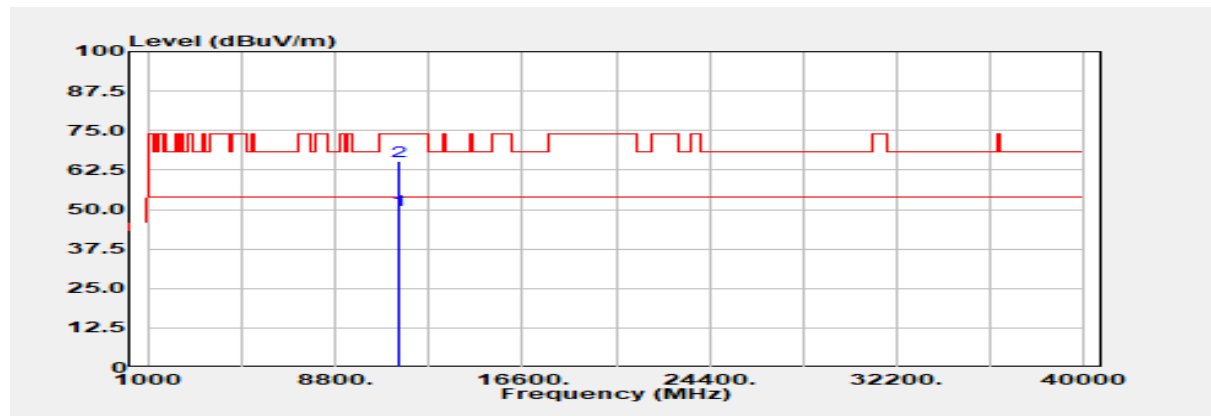
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Report Number :E2/2020/B0037
Operation Mode :802.11n40 / Band 3-4
Test Frequency :5710 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :20.8/62
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.000	Average	41.48	8.50	49.97	54.00	-4.03
11420.000	Peak	56.84	8.50	65.34	74.00	-8.66

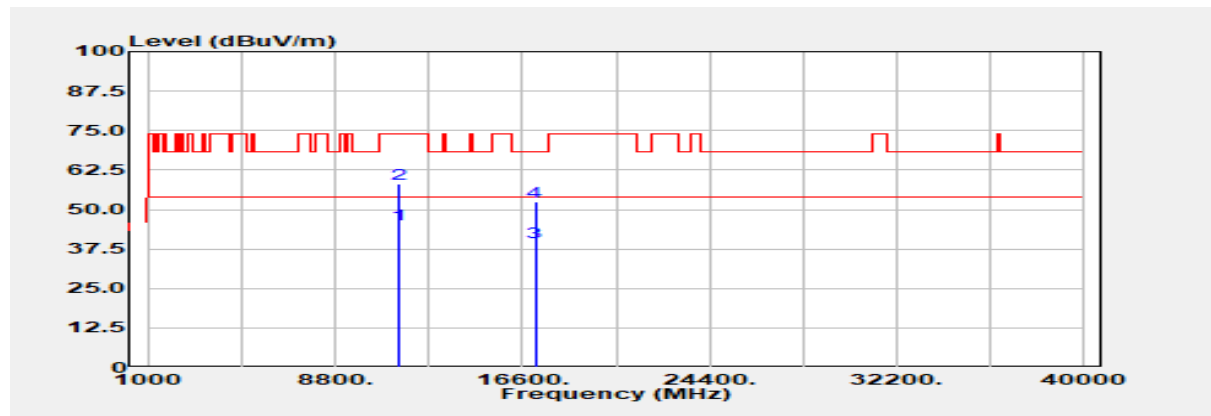
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Report Number :E2/2020/B0037
Operation Mode :802.11n40 / Band 3-4
Test Frequency :5710 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :20.8/62
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11420.000	Average	36.70	8.50	45.20	54.00	-8.80
11420.000	Peak	49.52	8.50	58.01	74.00	-15.99
17130.000	Average	30.26	9.18	39.43	54.00	-14.57
17130.000	Peak	43.37	9.18	52.55	68.20	-15.65

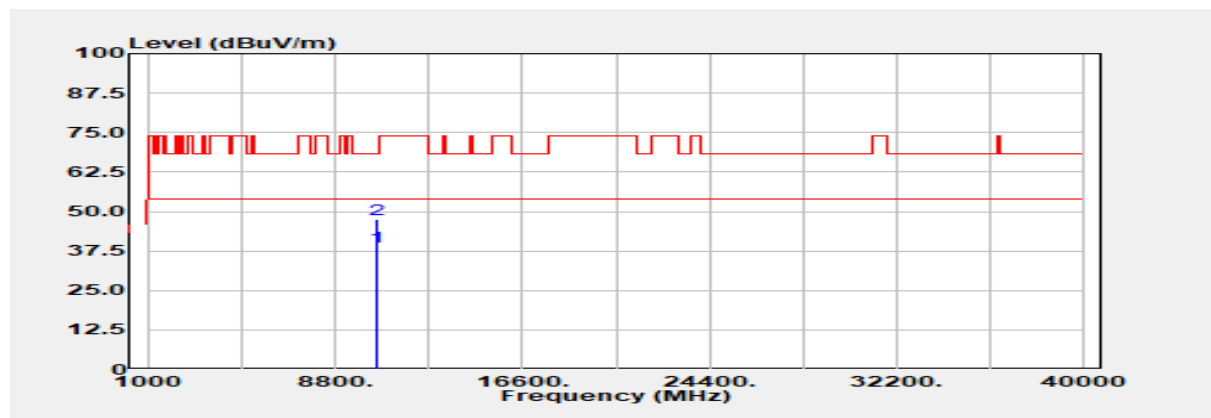
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Report Number :E2/2020/B0037
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :20.8/62
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.000	Average	32.02	7.02	39.03	54.00	-14.97
10580.000	Peak	40.57	7.02	47.59	68.20	-20.61

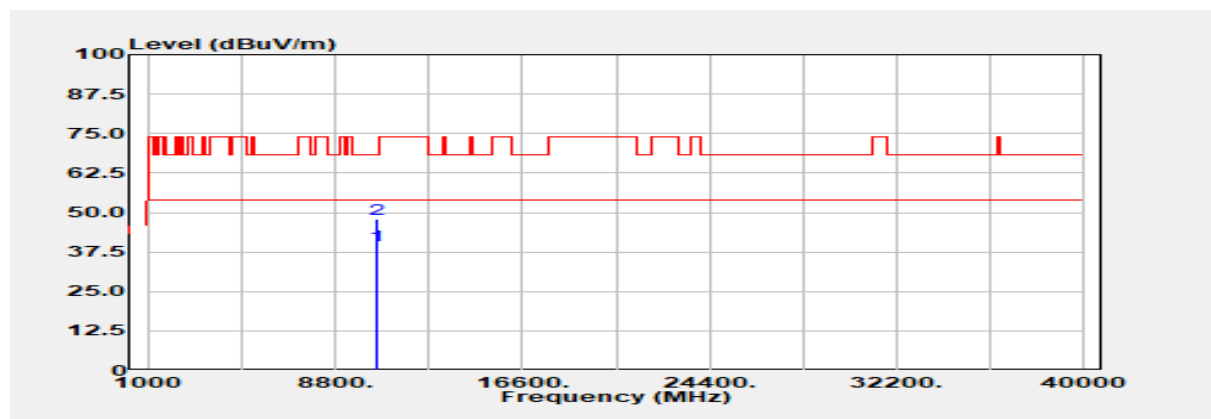
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Report Number :E2/2020/B0037
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :20.8/62
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10580.000	Average	32.49	7.02	39.50	54.00	-14.50
10580.000	Peak	40.78	7.02	47.80	68.20	-20.40

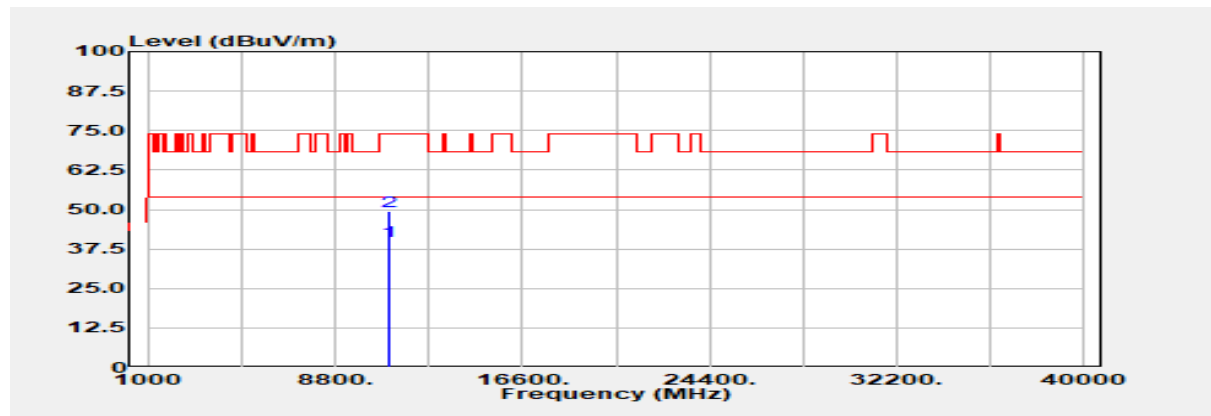
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Report Number :E2/2020/B0037
Operation Mode :802.11ac80 / Band 3
Test Frequency :5530 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :20.8/62
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11060.000	Average	31.93	8.14	40.07	54.00	-13.93
11060.000	Peak	41.16	8.14	49.30	74.00	-24.70

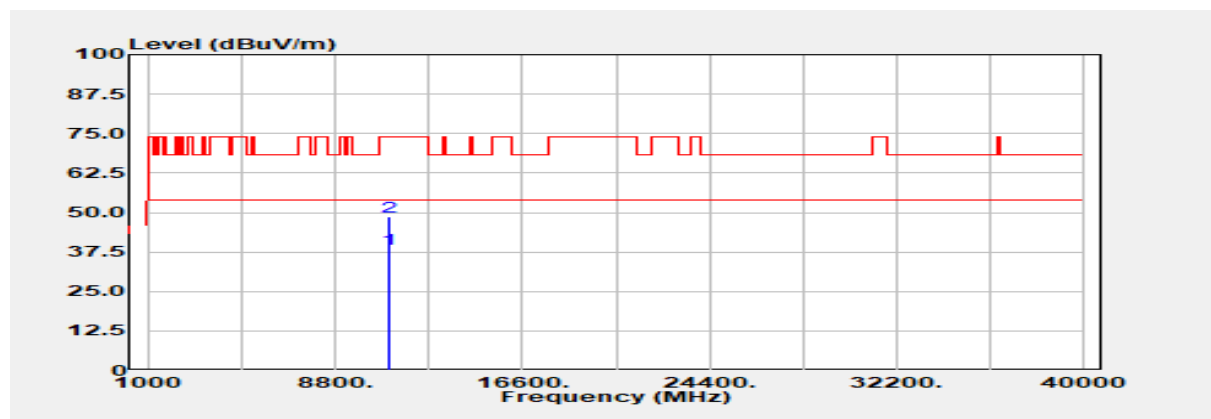
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Report Number :E2/2020/B0037
Operation Mode :802.11ac80 / Band 3
Test Frequency :5530 MHz
Test Mode :TX CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :20.8/62
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.000	Average	30.53	8.14	38.68	54.00	-15.32
11060.000	Peak	40.38	8.14	48.53	74.00	-25.47

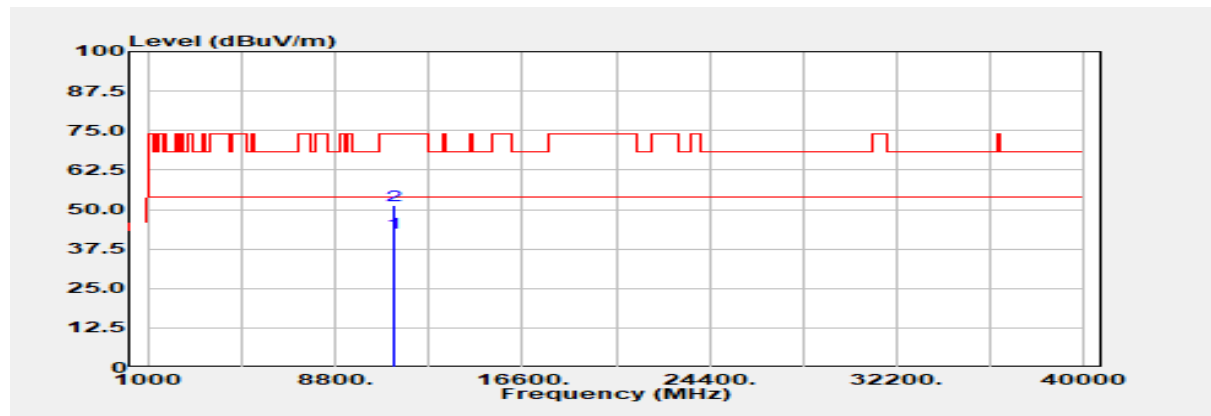
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Report Number :E2/2020/B0037
Operation Mode :802.11ac80 / Band 3
Test Frequency :5610 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :20.8/62
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11220.000	Average	35.22	7.60	42.82	54.00	-11.18
11220.000	Peak	43.82	7.60	51.42	74.00	-22.58

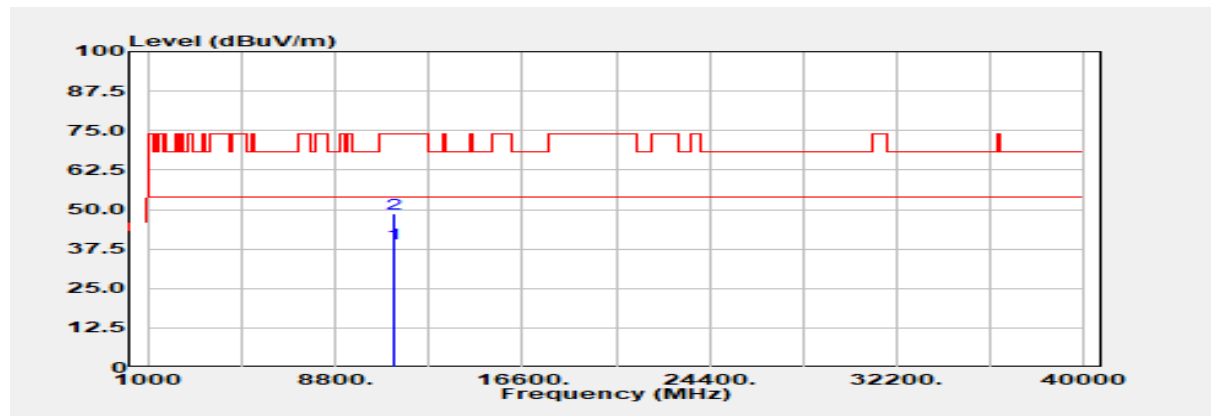
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Report Number :E2/2020/B0037
Operation Mode :802.11ac80 / Band 3
Test Frequency :5610 MHz
Test Mode :TX CH MID
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-07
Temp./Humi. :20.8/62
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11220.000	Average	31.52	7.60	39.11	54.00	-14.89
11220.000	Peak	41.13	7.60	48.73	74.00	-25.27

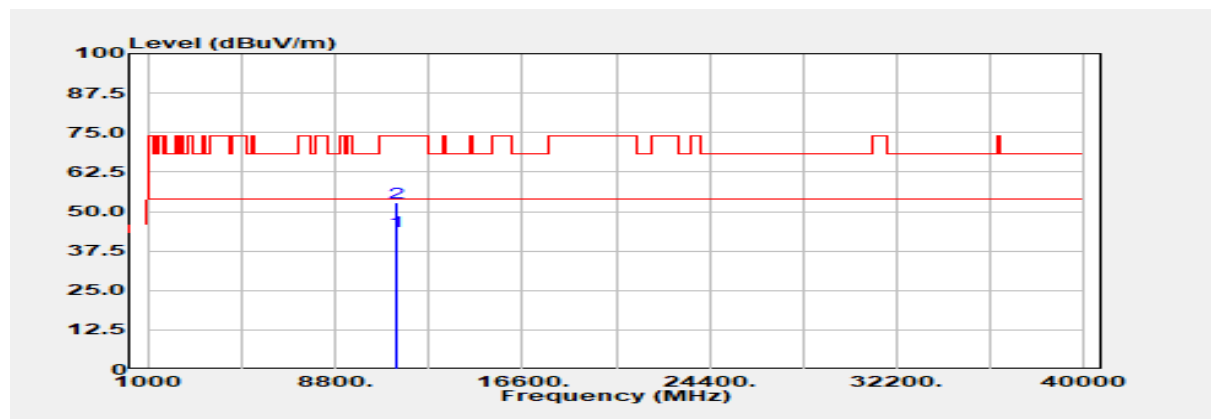
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Report Number :E2/2020/B0037
Operation Mode :802.11ac80 / Band 3
Test Frequency :5690 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-08
Temp./Humi. :22.5/67
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.000	Average	35.62	8.10	43.72	54.00	-10.28
11380.000	Peak	44.59	8.10	52.68	74.00	-21.32

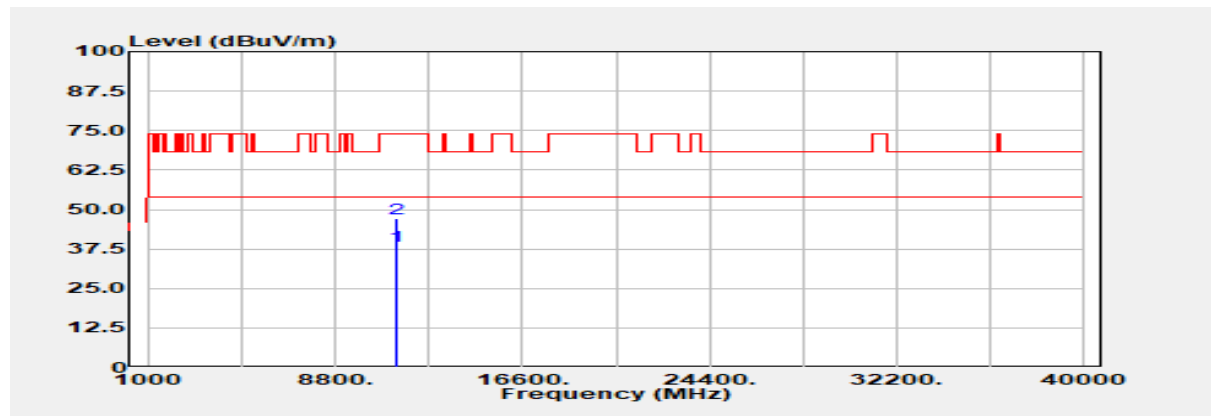
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Report Number :E2/2020/B0037
Operation Mode :802.11ac80 / Band 3
Test Frequency :5690 MHz
Test Mode :TX CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2021-01-08
Temp./Humi. : 22.5/67
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11380.000	Average	30.28	8.10	38.38	54.00	-15.62
11380.000	Peak	39.06	8.10	47.16	74.00	-26.84

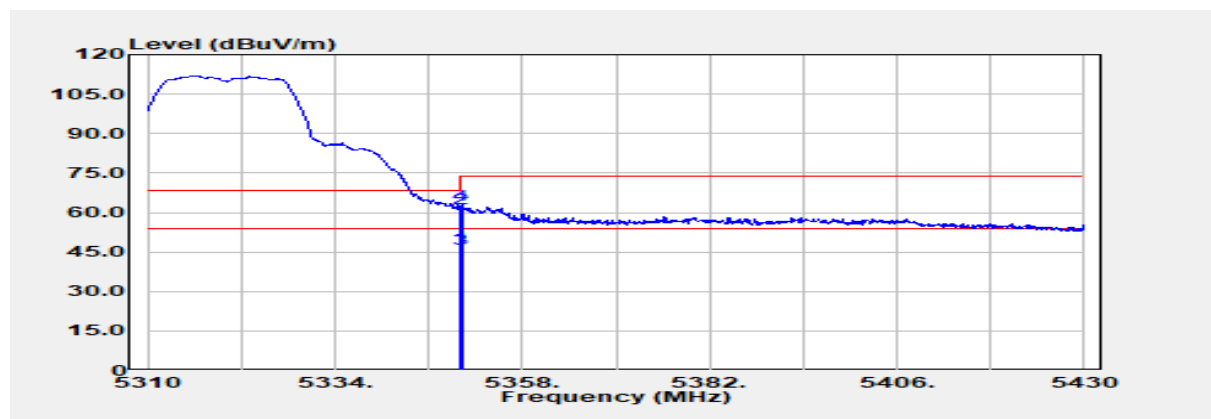
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11.7.3 Band edge falling to restricted band

Report Number	:E2/2020/B0037	Test Site	:966 Chamber D
Operation Mode	:802.11a / Band 2	Test Date	:2020-12-26
Test Frequency	:5320 MHz	Temp./Humi.	:22.5/63
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:H Plan	Engineer	:Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	49.20	-2.76	46.43	54.00	-7.57
5350.000	Peak	64.35	-2.76	61.59	74.00	-12.41
5350.200	Average	49.16	-2.77	46.38	54.00	-7.62
5350.200	Peak	65.56	-2.77	62.79	74.00	-11.21

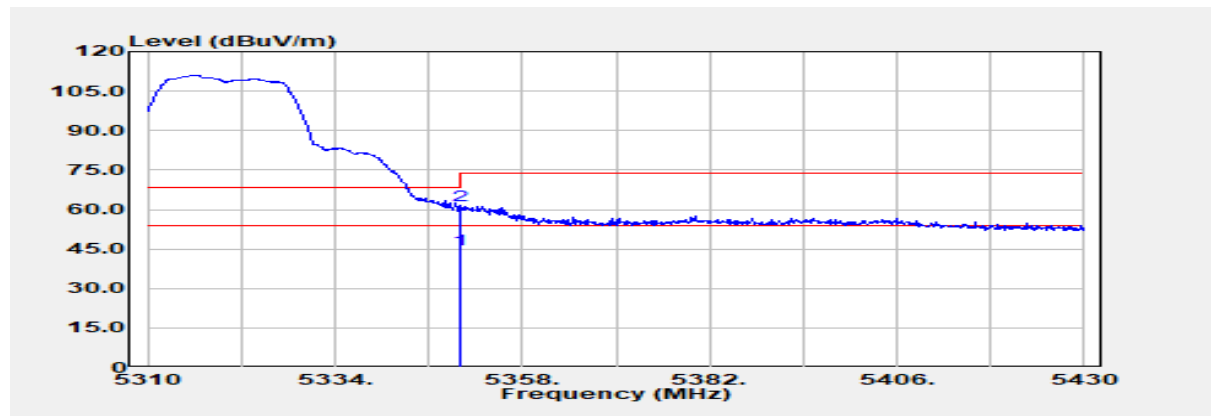
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Report Number :E2/2020/B0037
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-26
Temp./Humi. :22.5/63
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.000	Average	47.67	-2.76	44.90	54.00	-9.10
5350.000	Peak	64.57	-2.76	61.81	74.00	-12.19

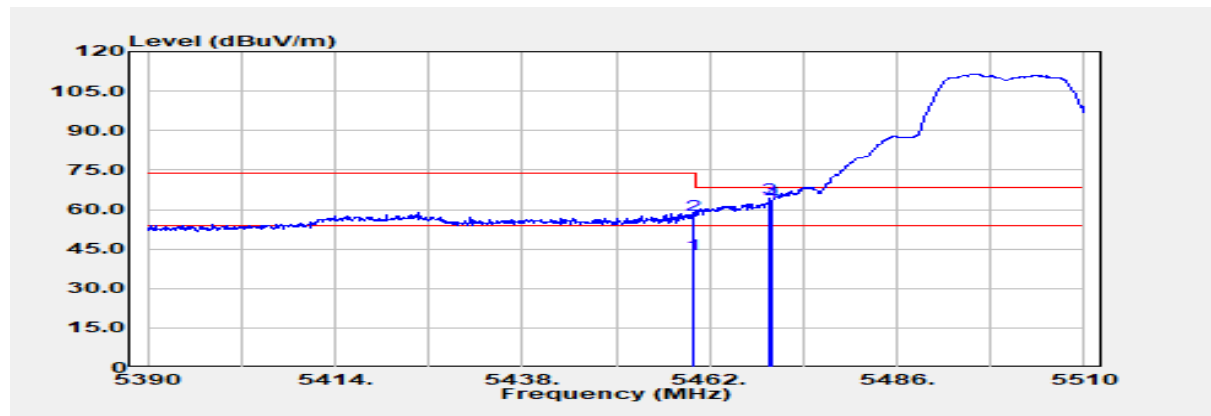
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Report Number :E2/2020/B0037
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-26
Temp./Humi. :22.5/63
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5460.000	Average	45.35	-2.18	43.17	54.00	-10.83
5460.000	Peak	60.19	-2.18	58.01	74.00	-15.99
5469.680	Peak	66.78	-2.34	64.44	68.20	-3.76
5470.000	Peak	65.16	-2.35	62.81	68.20	-5.39

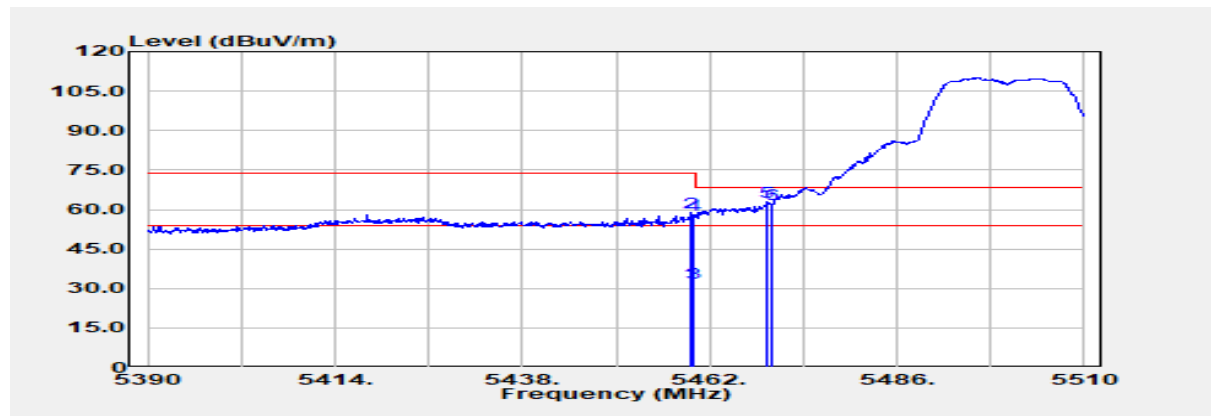
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Report Number :E2/2020/B0037
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-26
Temp./Humi. :22.5/63
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5459.720	Average	34.52	-2.19	32.33	54.00	-21.67
5459.720	Peak	61.20	-2.19	59.01	74.00	-14.99
5460.000	Average	34.52	-2.18	32.34	54.00	-21.66
5460.000	Peak	60.20	-2.18	58.02	74.00	-15.98
5469.440	Peak	65.26	-2.34	62.92	68.20	-5.28
5470.000	Peak	64.52	-2.35	62.17	68.20	-6.03

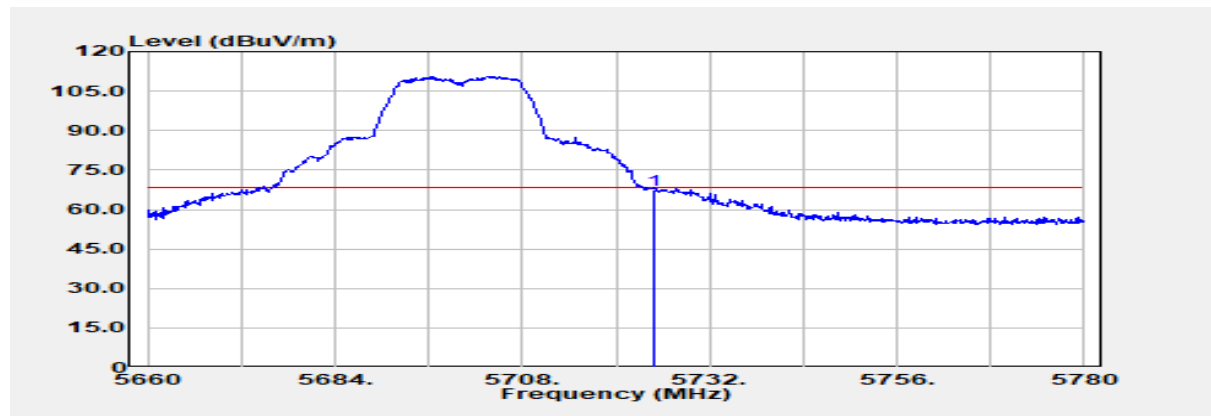
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Report Number :E2/2020/B0037
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-26
Temp./Humi. :22.5/63
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.000	Peak	69.67	-1.98	67.69	68.20	-0.51

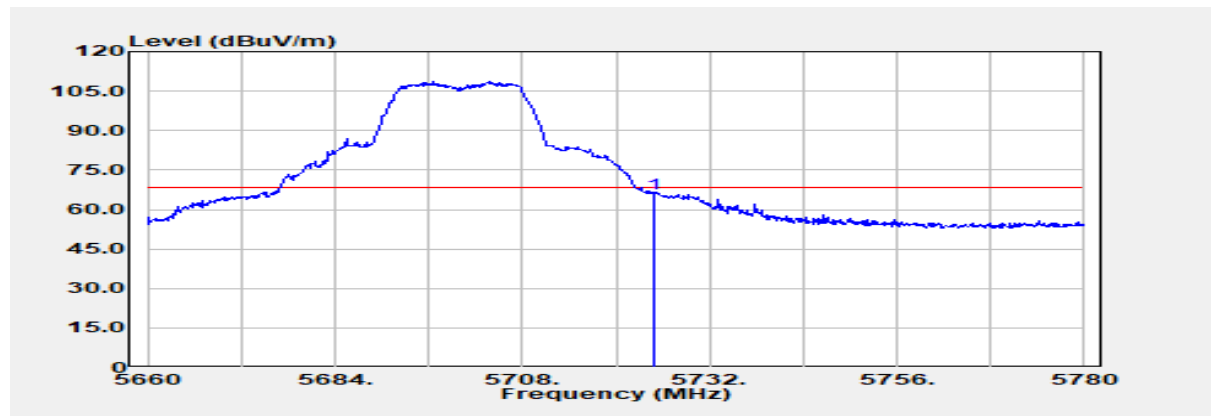
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Report Number :E2/2020/B0037
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-26
Temp./Humi. :22.5/63
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.000	Peak	67.97	-1.98	65.99	68.20	-2.21

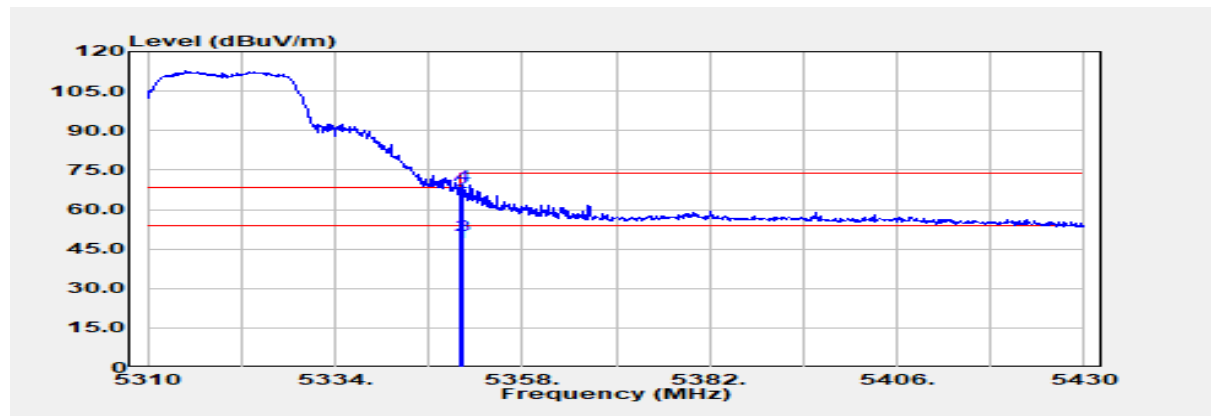
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Report Number :E2/2020/B0037
Operation Mode :802.11n20 / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-26
Temp./Humi. :22.5/63
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.000	Average	50.46	-2.76	47.70	54.00	-6.30
5350.000	Peak	69.13	-2.76	66.37	74.00	-7.63
5350.440	Average	53.22	-2.78	50.44	54.00	-3.56
5350.440	Peak	72.17	-2.78	69.39	74.00	-4.61

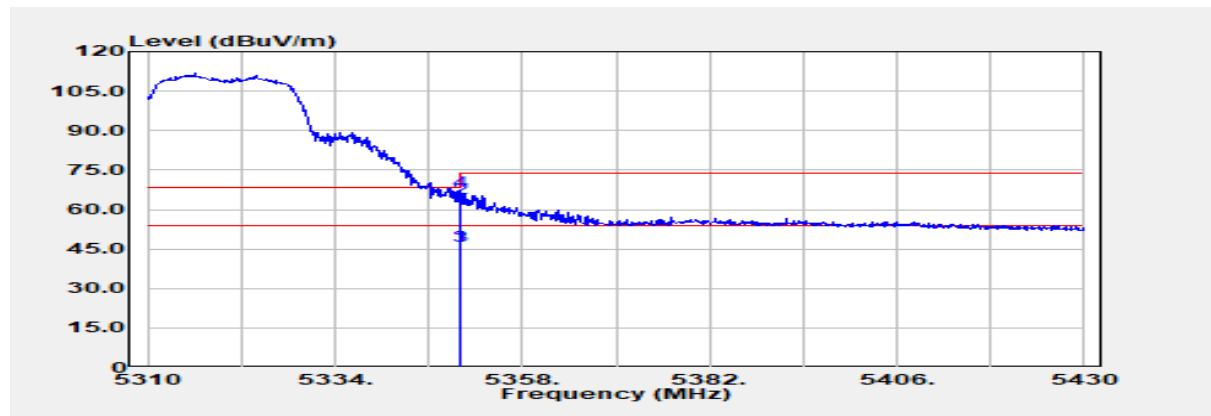
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Report Number :E2/2020/B0037
Operation Mode :802.11n20 / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-26
Temp./Humi. :22.5/63
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.000	Average	48.78	-2.76	46.02	54.00	-7.98
5350.000	Peak	66.92	-2.76	64.16	74.00	-9.84
5350.080	Average	48.74	-2.77	45.98	54.00	-8.02
5350.080	Peak	69.76	-2.77	66.99	74.00	-7.01

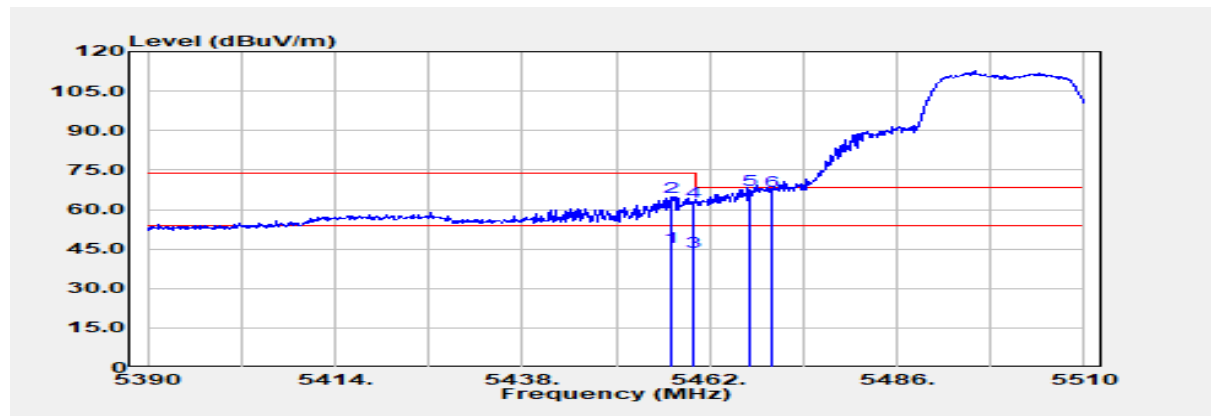
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Report Number :E2/2020/B0037
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-26
Temp./Humi. :22.5/63
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5457.200	Average	47.76	-2.25	45.51	54.00	-8.49
5457.200	Peak	67.14	-2.25	64.89	74.00	-9.11
5460.000	Average	46.32	-2.18	44.13	54.00	-9.87
5460.000	Peak	64.93	-2.18	62.75	74.00	-11.25
5467.000	Peak	69.82	-2.30	67.52	68.20	-0.68
5470.000	Peak	69.39	-2.35	67.04	68.20	-1.16

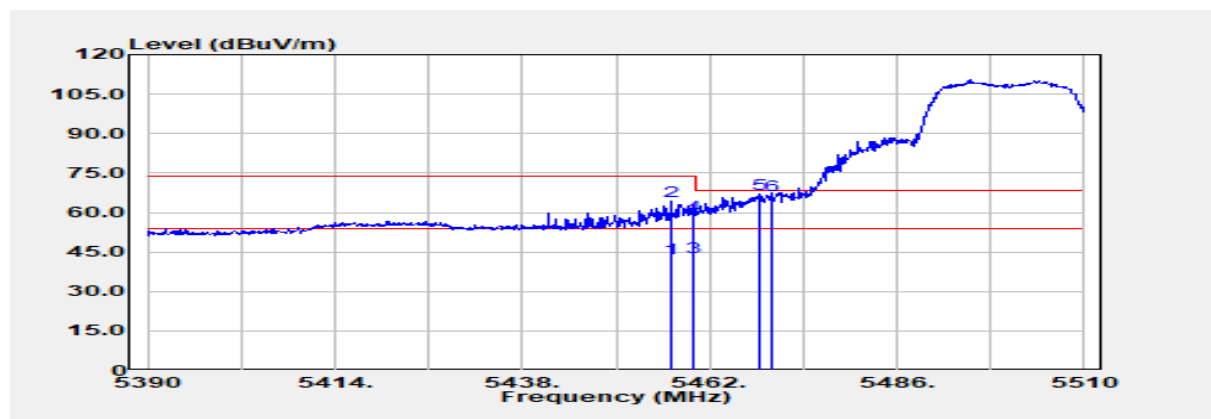
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Report Number :E2/2020/B0037
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-26
Temp./Humi. :22.5/63
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5457.080	Average	44.93	-2.25	42.68	54.00	-11.32
5457.080	Peak	66.54	-2.25	64.29	74.00	-9.71
5460.000	Average	45.13	-2.18	42.94	54.00	-11.06
5460.000	Peak	61.06	-2.18	58.88	74.00	-15.12
5468.360	Peak	69.23	-2.32	66.91	68.20	-1.29
5470.000	Peak	68.94	-2.35	66.59	68.20	-1.61

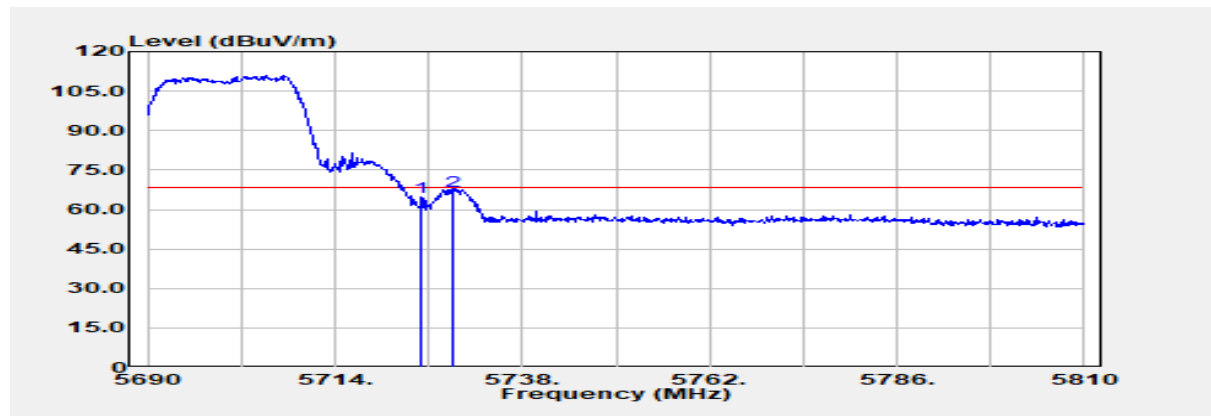
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Report Number :E2/2020/B0037
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-26
Temp./Humi. :22.5/63
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.000	Peak	66.94	-1.98	64.96	68.20	-3.24
5729.000	Peak	69.06	-2.20	66.86	68.20	-1.34

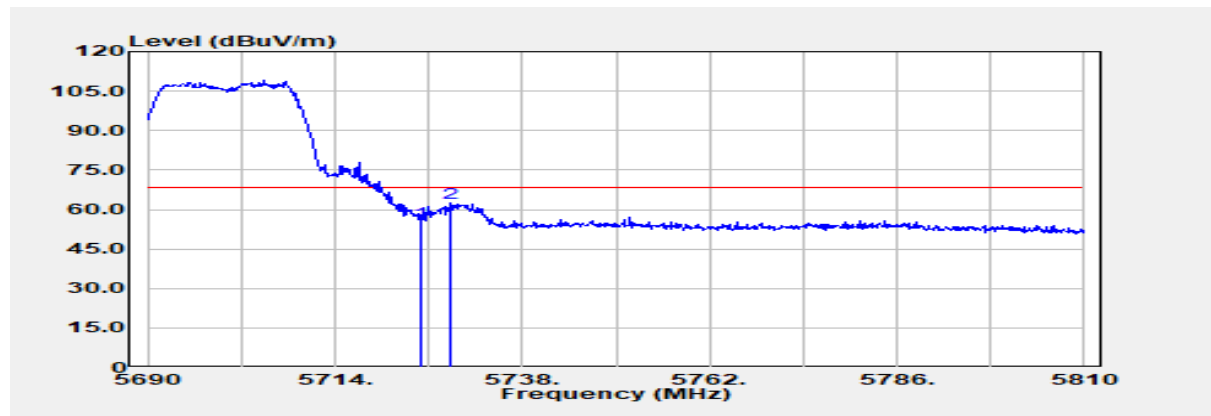
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Report Number :E2/2020/B0037
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-26
Temp./Humi. :22.5/63
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.000	Peak	57.15	-1.98	55.18	68.20	-13.02
5728.760	Peak	64.71	-2.19	62.53	68.20	-5.67

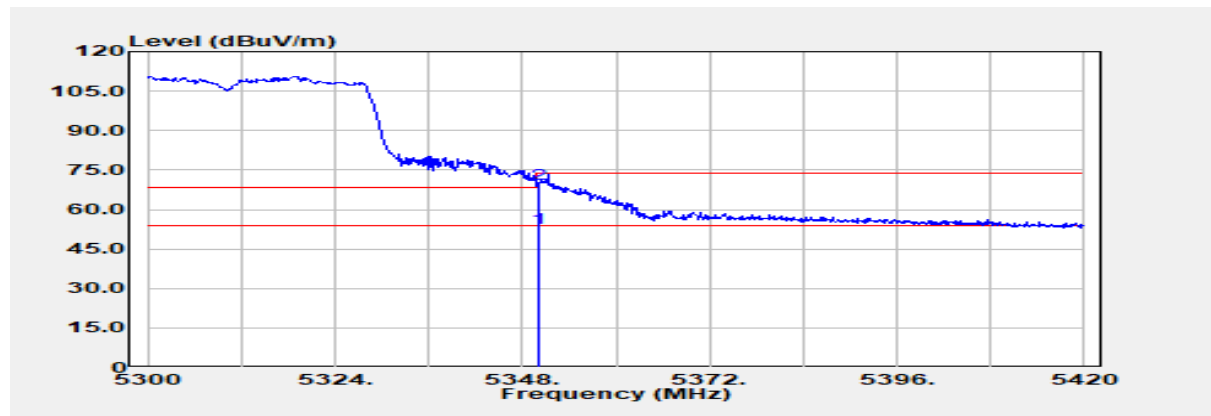
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Report Number :E2/2020/B0037
Operation Mode :802.11n40 / Band 2
Test Frequency :5310 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-28
Temp./Humi. : 21.7/63
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.000	Average	55.90	-2.76	53.14	54.00	-0.86
5350.000	Peak	72.49	-2.76	69.73	74.00	-4.27

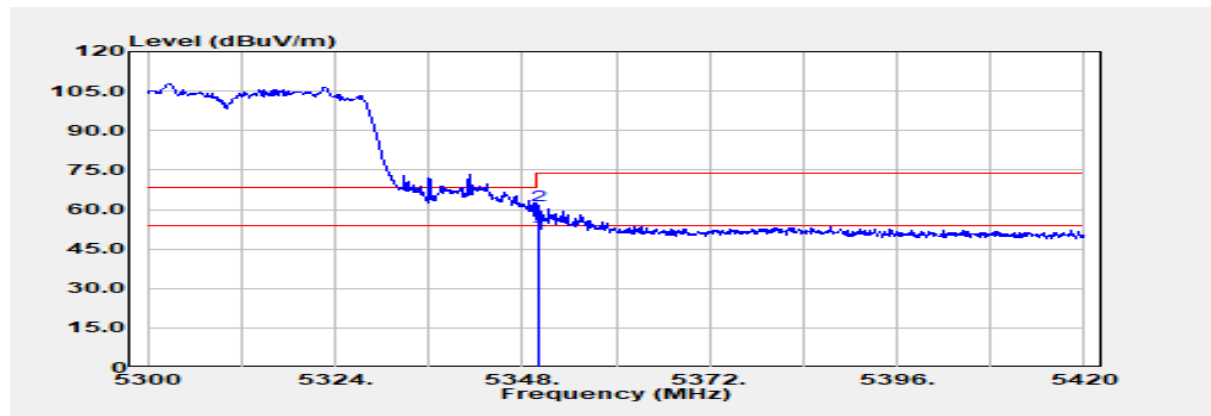
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Report Number :E2/2020/B0037
Operation Mode :802.11n40 / Band 2
Test Frequency :5310 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-28
Temp./Humi. : 21.7/63
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.000	Average	53.68	-2.76	50.92	54.00	-3.08
5350.000	Peak	64.17	-2.76	61.41	74.00	-12.59

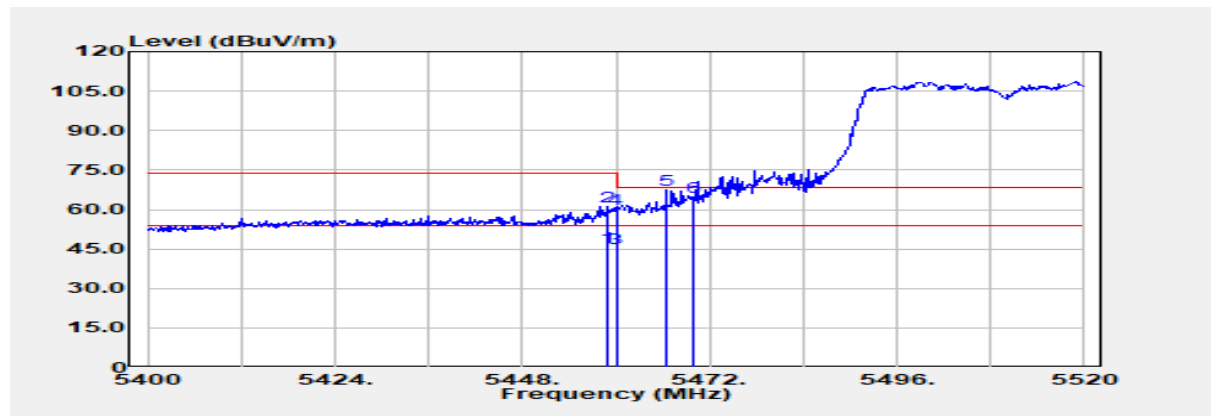
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Report Number :E2/2020/B0037
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-28
Temp./Humi. : 21.7/63
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5458.920	Average	48.10	-2.21	45.89	54.00	-8.11
5458.920	Peak	63.32	-2.21	61.12	74.00	-12.88
5460.000	Average	47.49	-2.18	45.31	54.00	-8.69
5460.000	Peak	62.48	-2.18	60.30	74.00	-13.70
5466.480	Peak	69.67	-2.29	67.38	68.20	-0.82
5470.000	Peak	66.90	-2.35	64.55	68.20	-3.65

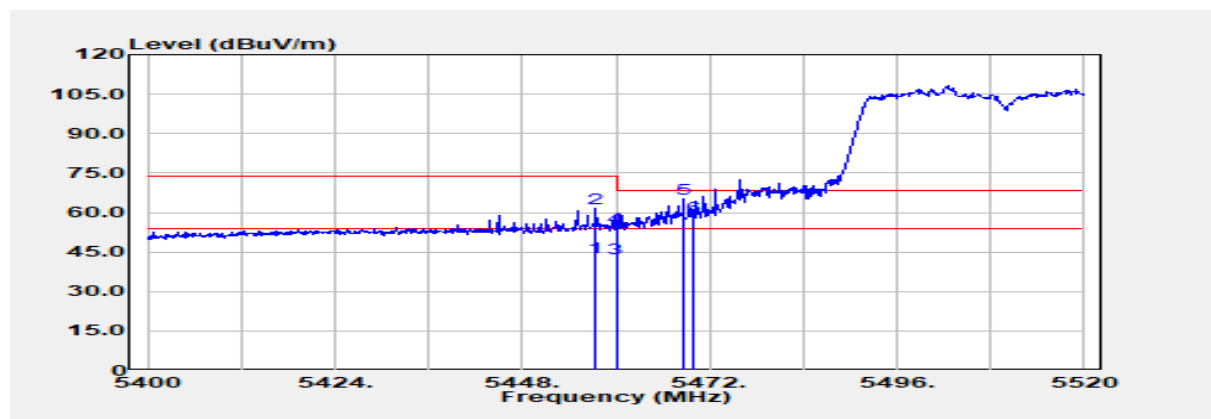
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Report Number :E2/2020/B0037
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-28
Temp./Humi. : 21.7/63
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5457.480	Average	45.28	-2.24	43.04	54.00	-10.96
5457.480	Peak	63.87	-2.24	61.63	74.00	-12.37
5460.000	Average	44.70	-2.18	42.52	54.00	-11.48
5460.000	Peak	56.42	-2.18	54.24	74.00	-19.76
5468.640	Peak	67.52	-2.33	65.20	68.20	-3.00
5470.000	Peak	60.73	-2.35	58.39	68.20	-9.81

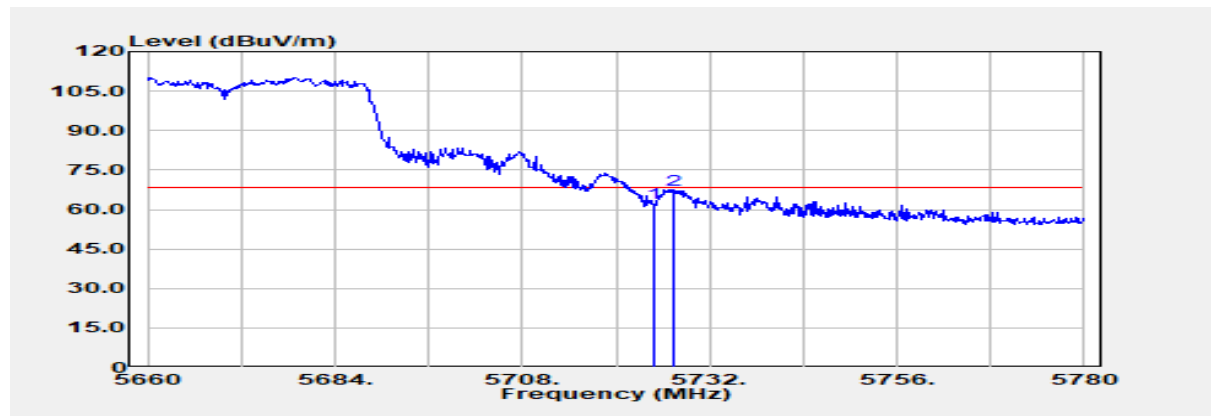
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Report Number :E2/2020/B0037
Operation Mode :802.11n40 / Band 3
Test Frequency :5670 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-28
Temp./Humi. : 21.7/63
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.000	Peak	64.64	-1.98	62.67	68.20	-5.53
5727.320	Peak	69.67	-2.11	67.56	68.20	-0.64

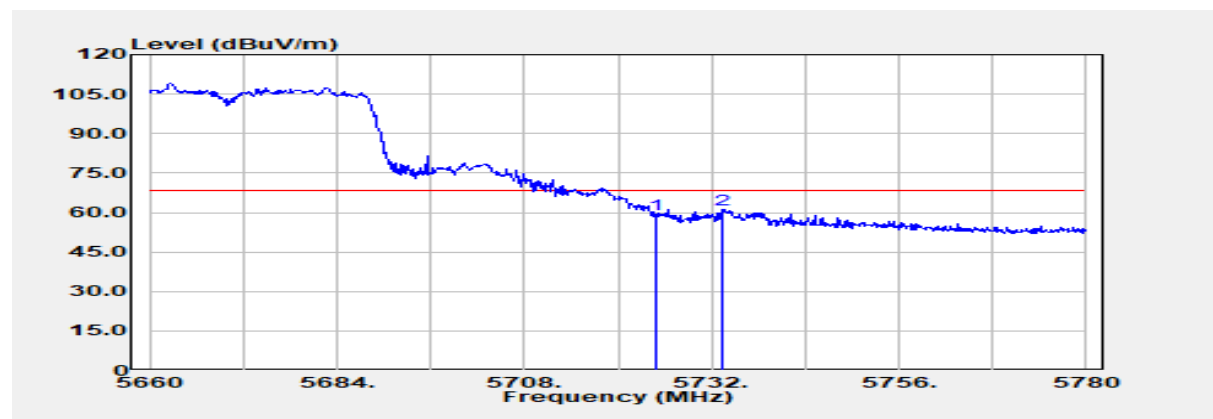
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Report Number :E2/2020/B0037
Operation Mode :802.11n40 / Band 3
Test Frequency :5670 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-28
Temp./Humi. : 21.7/63
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.000	Peak	61.29	-1.98	59.31	68.20	-8.89
5733.440	Peak	63.31	-2.00	61.30	68.20	-6.90

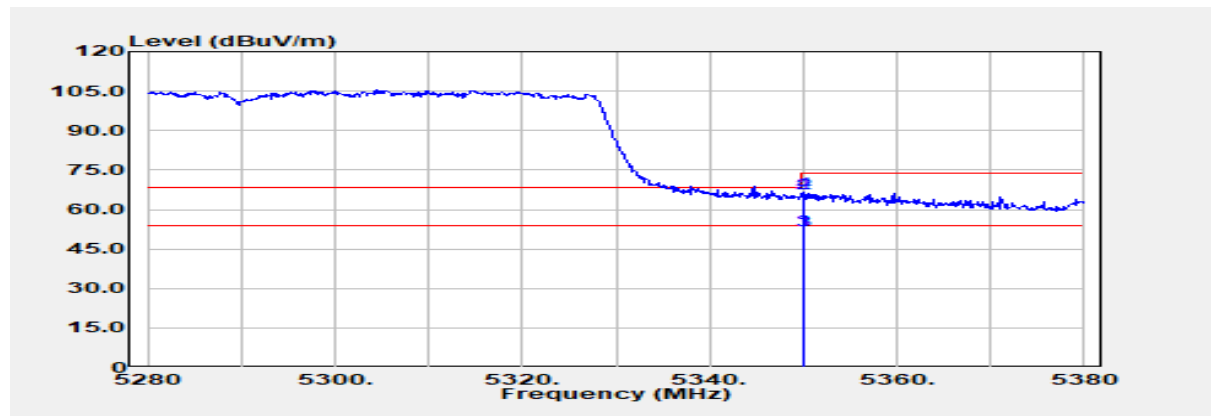
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Report Number :E2/2020/B0037
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-28
Temp./Humi. : 20.7/63
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.000	Average	54.80	-2.76	52.04	54.00	-1.96
5350.000	Peak	68.92	-2.76	66.15	74.00	-7.85
5350.100	Average	54.70	-2.77	51.93	54.00	-2.07
5350.100	Peak	69.30	-2.77	66.53	74.00	-7.47

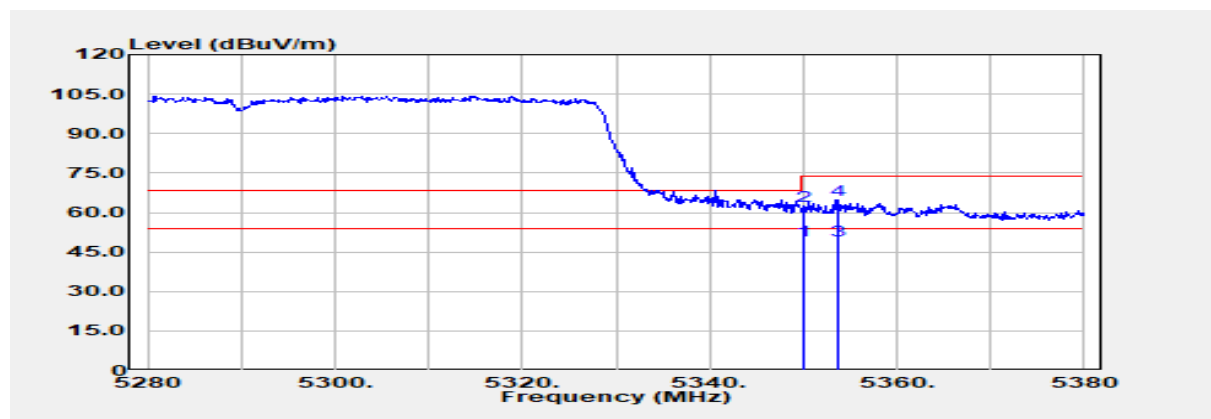
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Report Number :E2/2020/B0037
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-28
Temp./Humi. : 20.7/63
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.000	Average	52.15	-2.76	49.39	54.00	-4.61
5350.000	Peak	65.12	-2.76	62.36	74.00	-11.64
5353.800	Average	52.09	-2.93	49.16	54.00	-4.84
5353.800	Peak	67.83	-2.93	64.90	74.00	-9.10

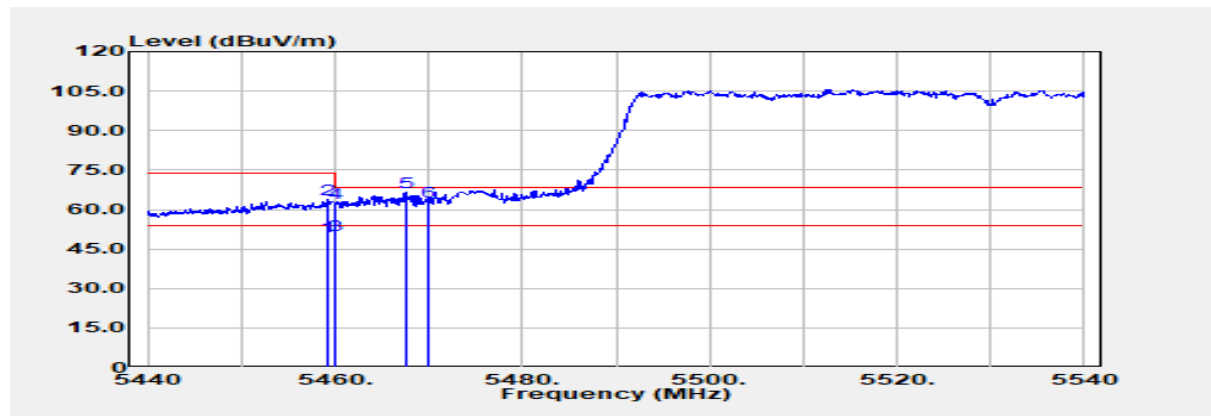
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Report Number :E2/2020/B0037
Operation Mode :802.11ac80 / Band 3
Test Frequency :5530 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-28
Temp./Humi. : 20.7/63
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5459.300	Average	52.10	-2.20	49.90	54.00	-4.10
5459.300	Peak	66.05	-2.20	63.85	74.00	-10.15
5460.000	Average	52.28	-2.18	50.10	54.00	-3.90
5460.000	Peak	64.55	-2.18	62.37	74.00	-11.63
5467.500	Peak	68.84	-2.31	66.53	68.20	-1.67
5470.000	Peak	65.21	-2.35	62.86	68.20	-5.34

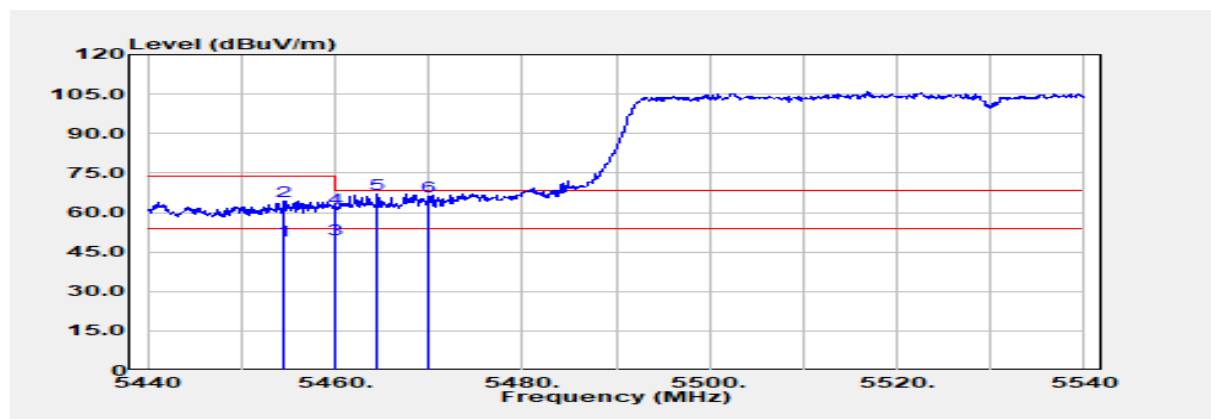
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Report Number :E2/2020/B0037
Operation Mode :802.11ac80 / Band 3
Test Frequency :5530 MHz
Test Mode :BE CH LOW
EUT Pol :H Plan

Test Site :966 Chamber D
Test Date :2020-12-28
Temp./Humi. : 20.7/63
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5454.500	Average	51.70	-2.31	49.39	54.00	-4.61
5454.500	Peak	66.53	-2.31	64.22	74.00	-9.78
5460.000	Average	52.07	-2.18	49.89	54.00	-4.11
5460.000	Peak	63.73	-2.18	61.55	74.00	-12.45
5464.500	Peak	69.22	-2.26	66.96	68.20	-1.24
5470.000	Peak	68.33	-2.35	65.98	68.20	-2.22

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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 ANTENNA REQUIREMENT

13.1 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.

13.2 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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