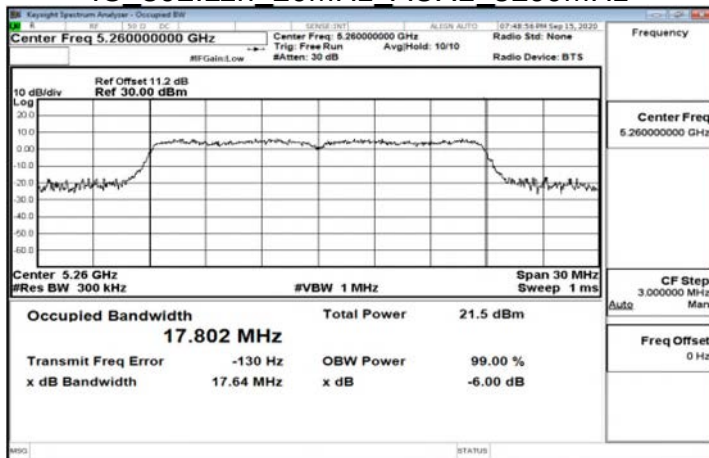
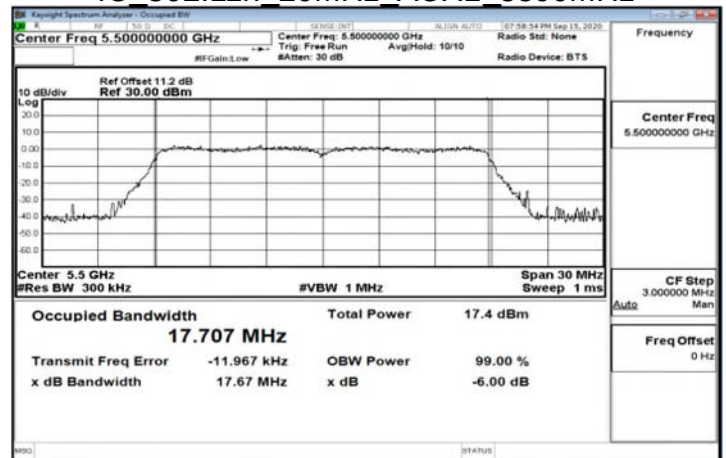


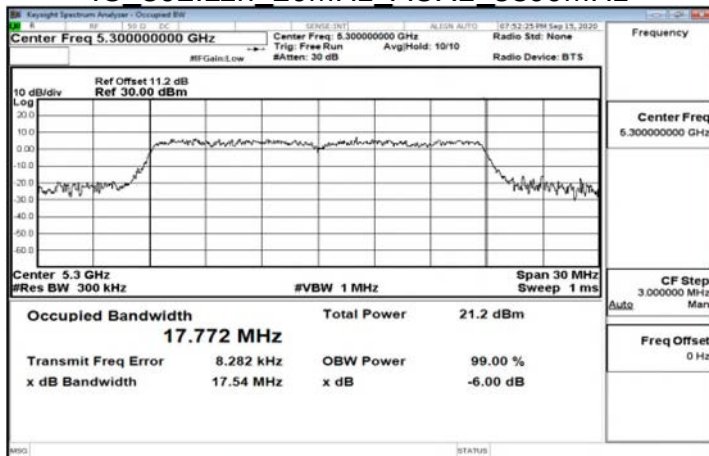
IC 802.11n 20MHz AUX1 5260MHz



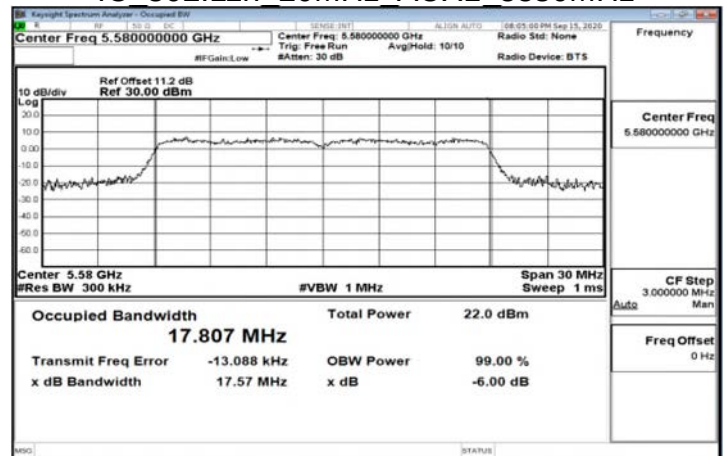
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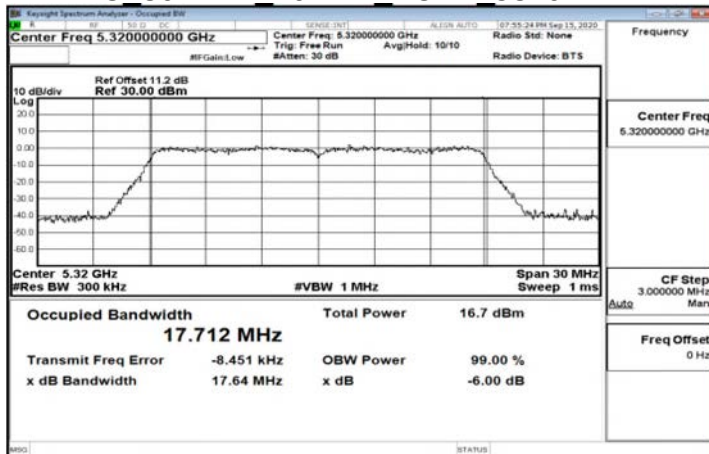
IC 802.11n 20MHz AUX1 5300MHz



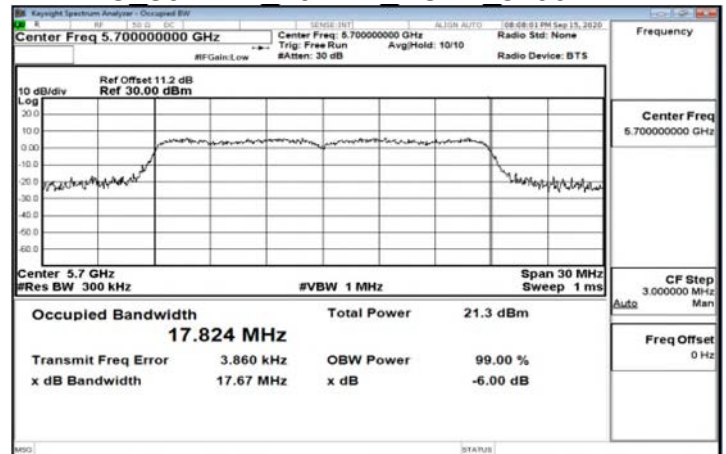
IC 802.11n 20MHz AUX1 5580MHz



IC 802.11n 20MHz AUX1 5320MHz



IC 802.11n 20MHz AUX1 5700MHz

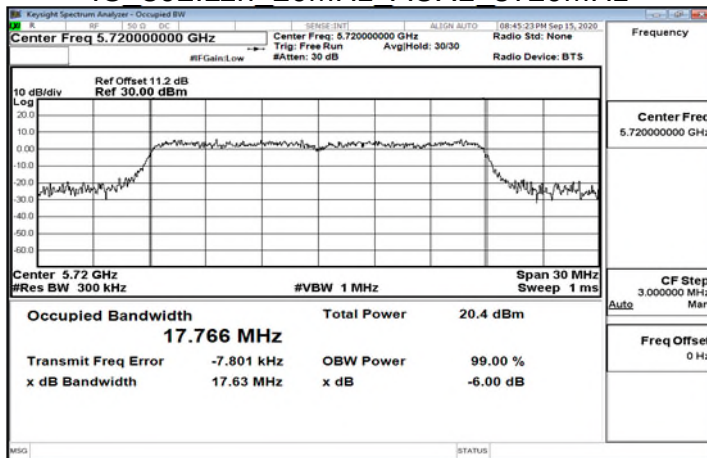


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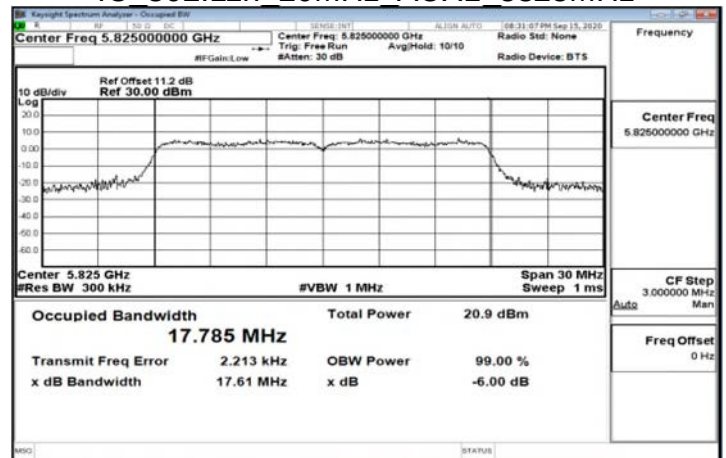
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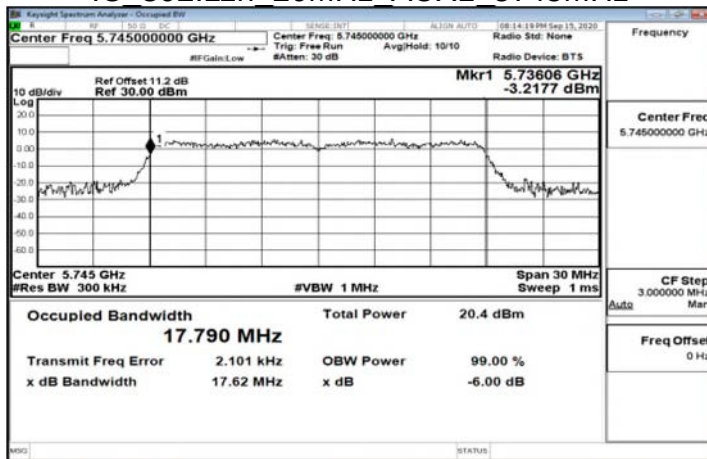
IC 802.11n 20MHz AUX1 5720MHz



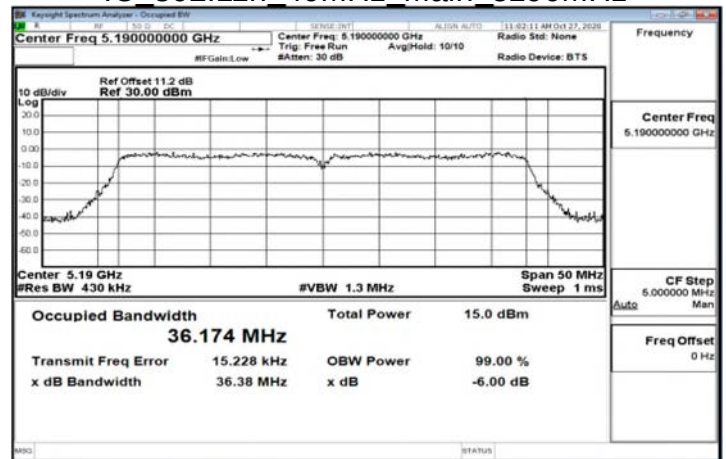
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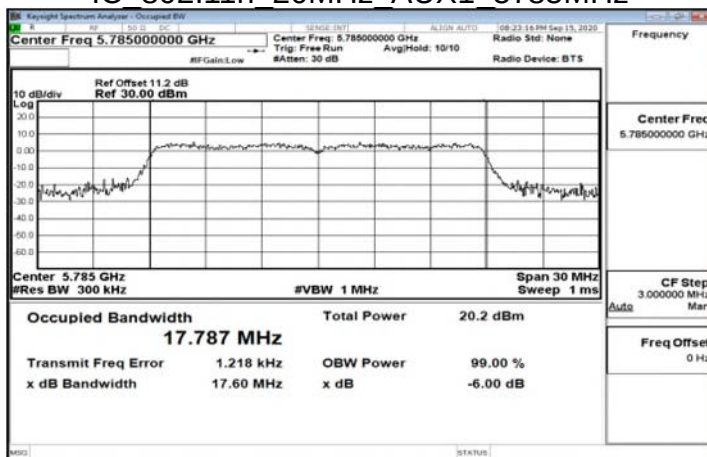
IC 802.11n 20MHz AUX1 5745MHz



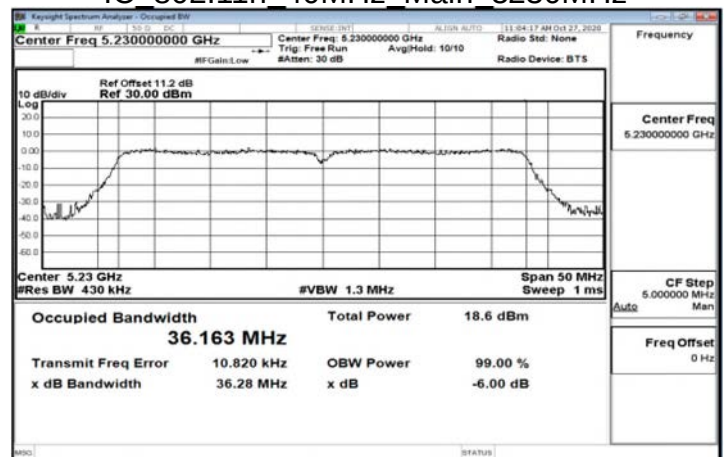
IC 802.11n 40MHz Main 5190MHz



IC 802.11n 20MHz AUX1 5785MHz



IC 802.11n 40MHz Main 5230MHz

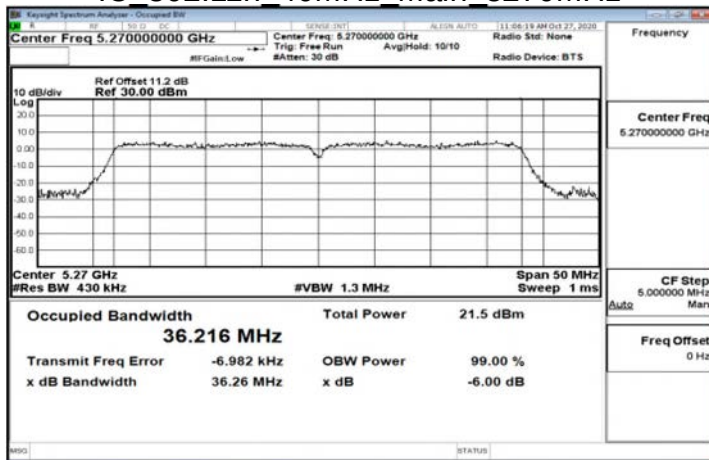


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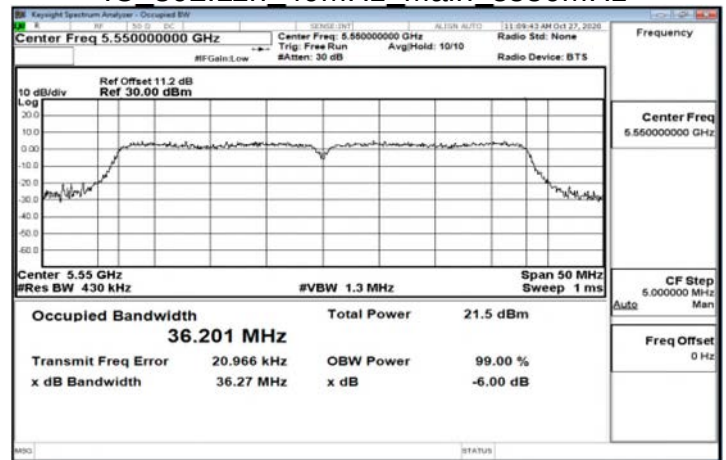
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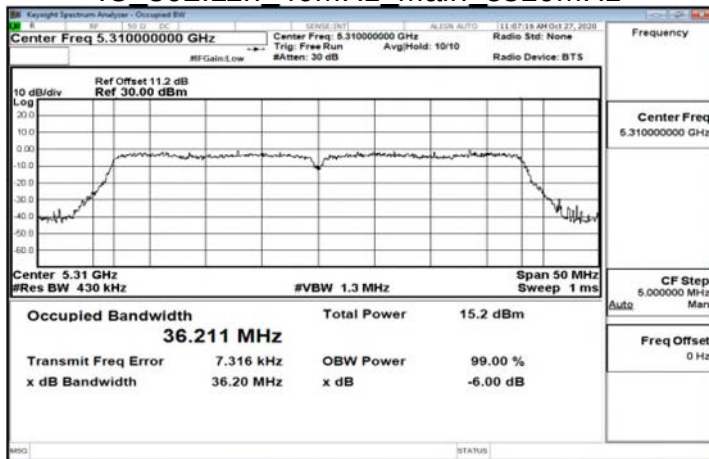
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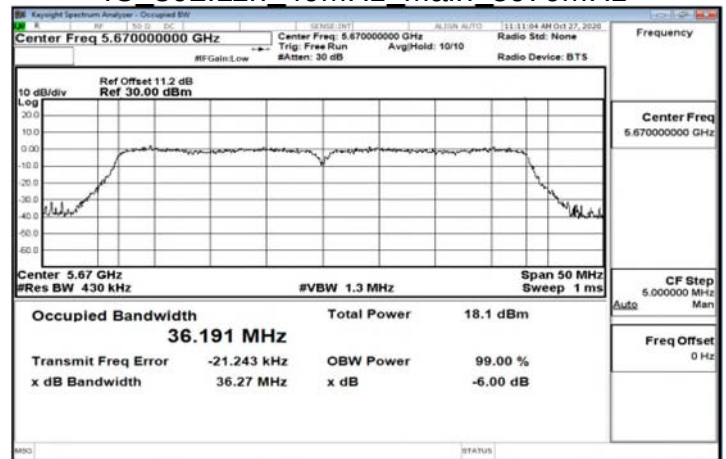
IC 802.11n 40MHz Main 5550MHz



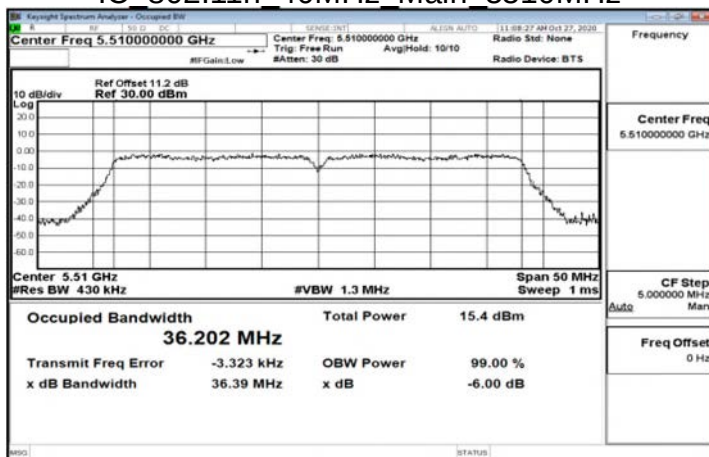
IC 802.11n 40MHz Main 5310MHz



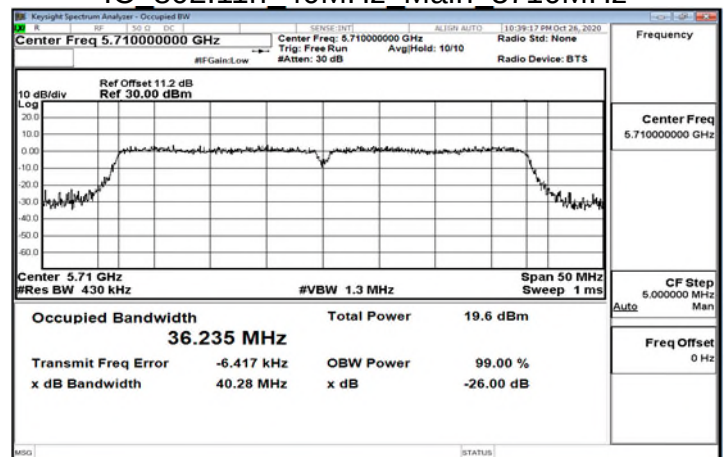
IC 802.11n 40MHz Main 5670MHz



IC 802.11n 40MHz Main 5510MHz



IC 802.11n 40MHz Main 5710MHz

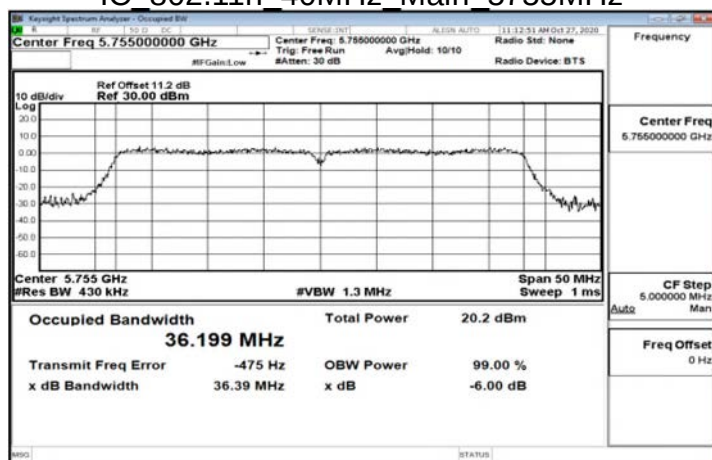


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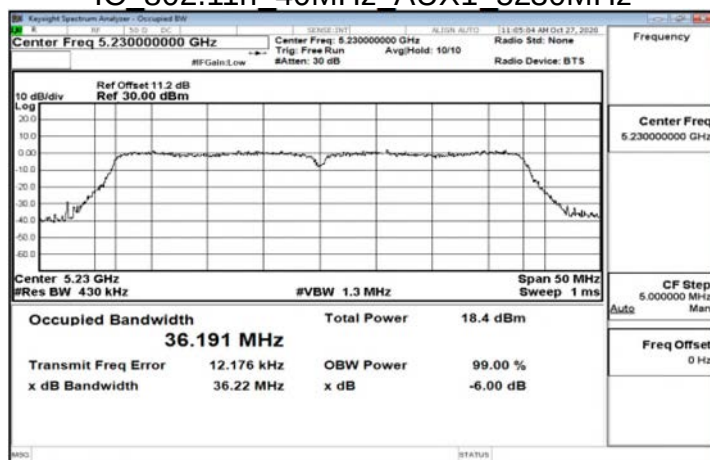
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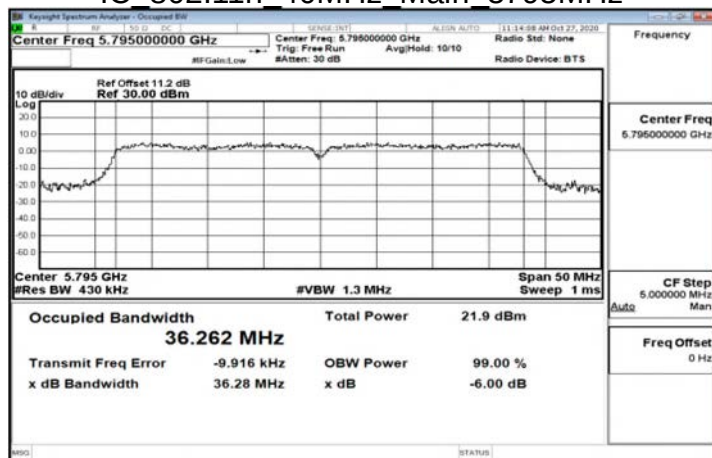
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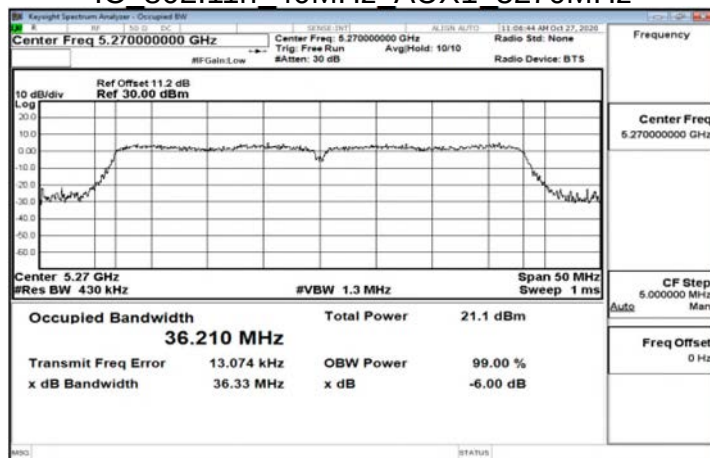
IC 802.11n 40MHz AUX1 5230MHz



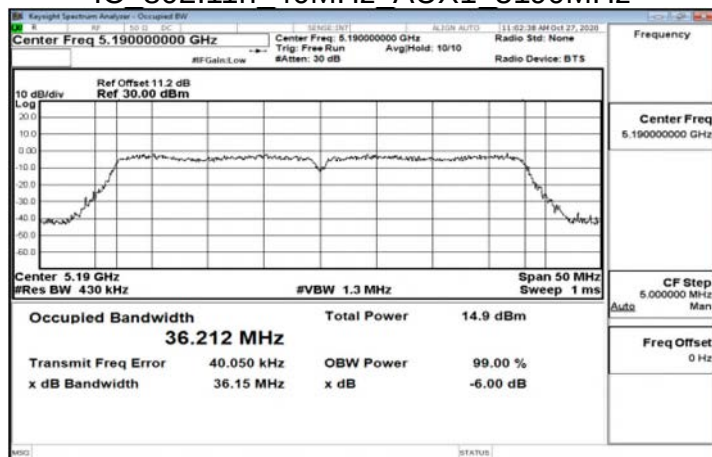
IC 802.11n 40MHz Main 5795MHz



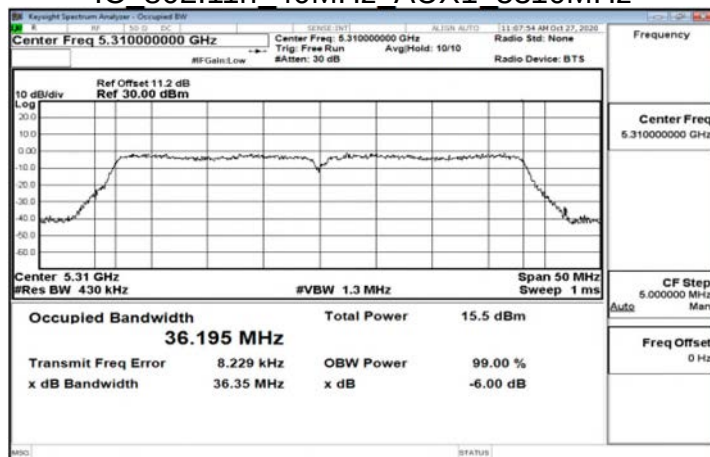
IC 802.11n 40MHz AUX1 5270MHz



IC 802.11n 40MHz AUX1 5190MHz



IC 802.11n 40MHz AUX1 5310MHz

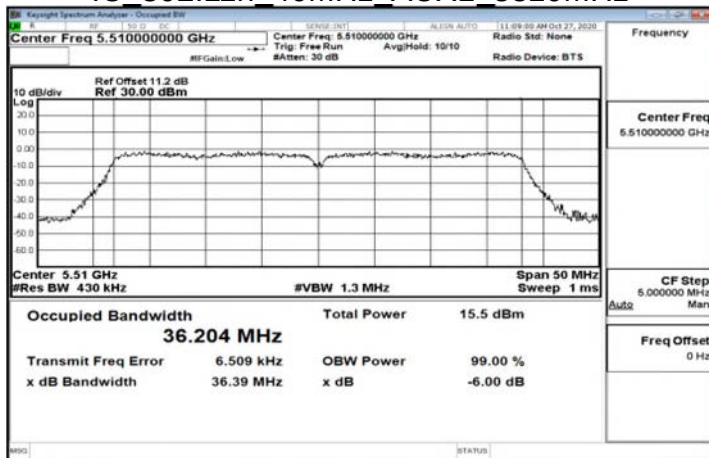


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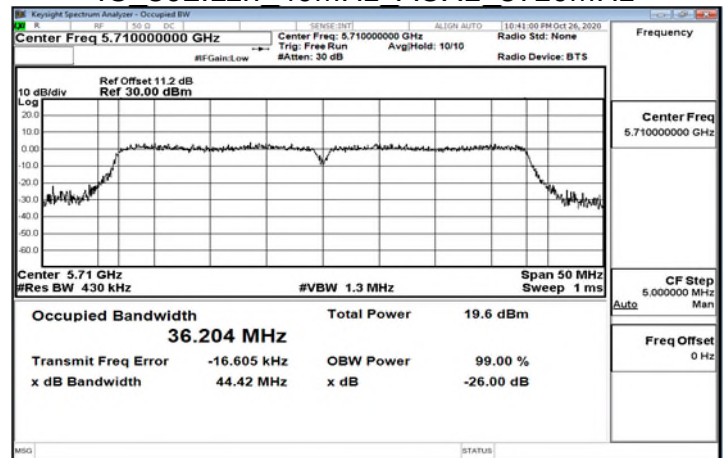
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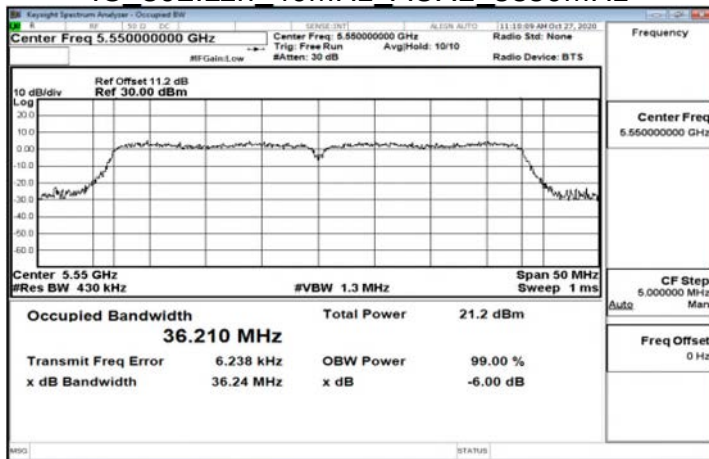
IC 802.11n 40MHz AUX1 5510MHz



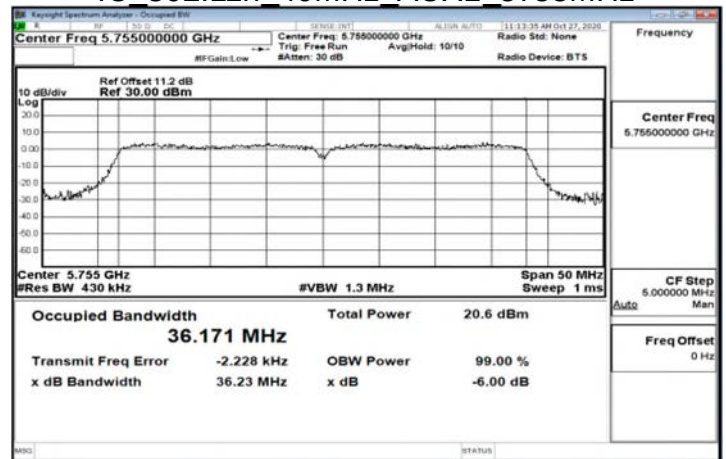
IC 802.11n 40MHz AUX1 5710MHz



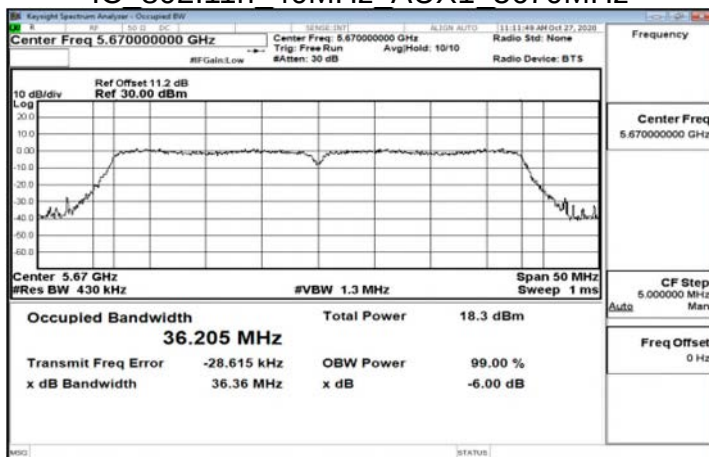
IC 802.11n 40MHz AUX1 5550MHz



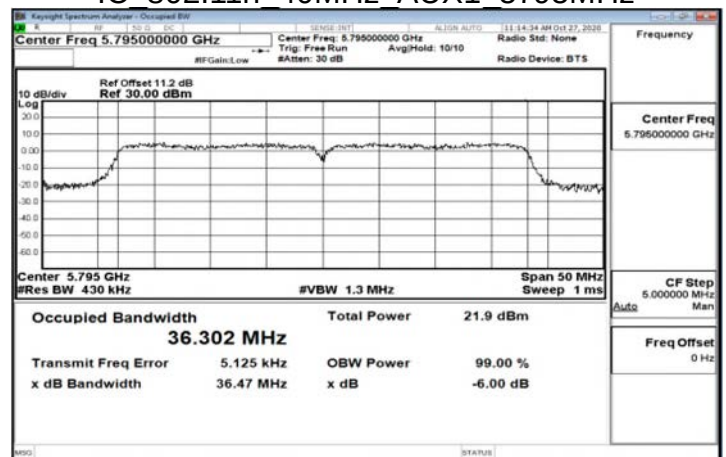
IC 802.11n 40MHz AUX1 5755MHz



IC 802.11n 40MHz AUX1 5670MHz



IC 802.11n 40MHz AUX1 5795MHz

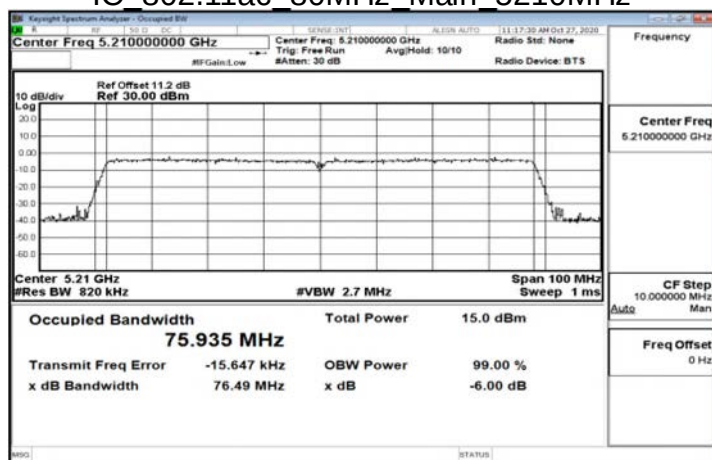


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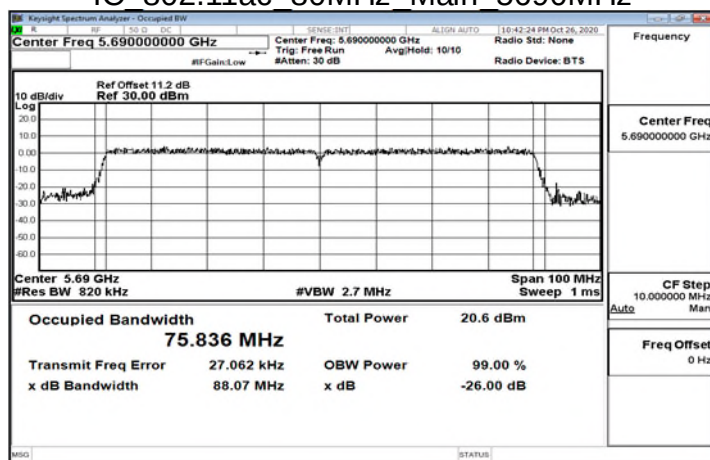
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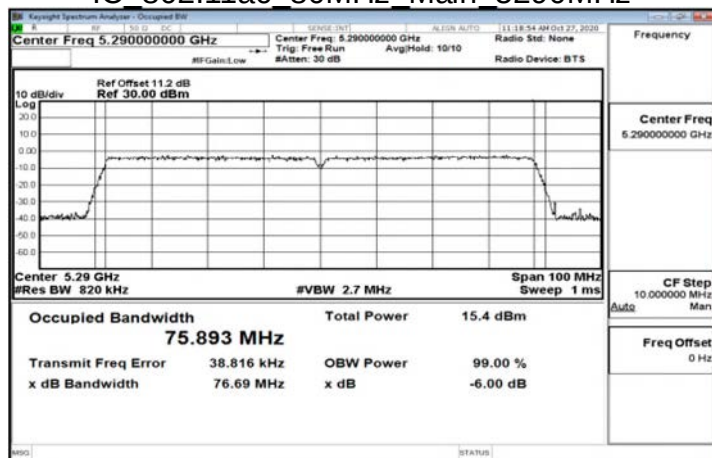
IC 802.11ac 80MHz Main 5210MHz



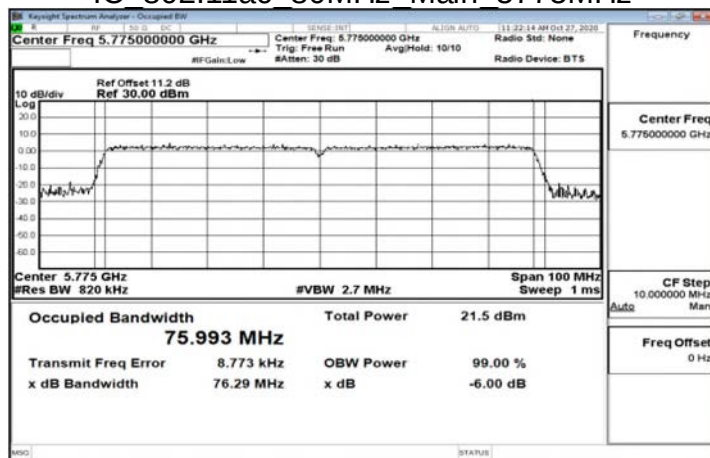
IC 802.11ac 80MHz Main 5690MHz



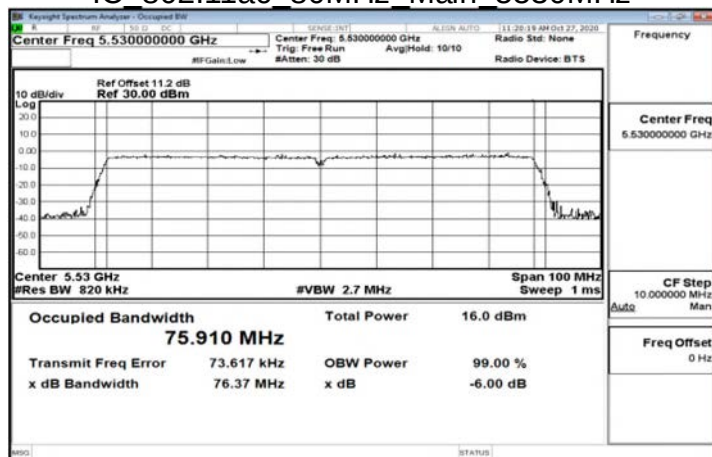
IC 802.11ac 80MHz Main 5290MHz



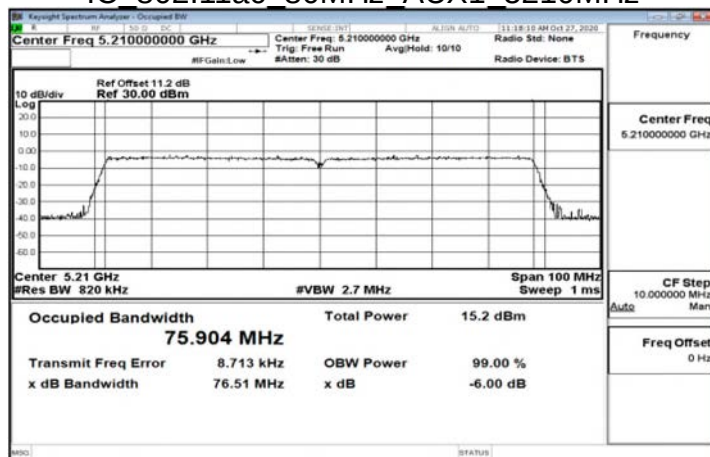
IC 802.11ac 80MHz Main 5775MHz



IC 802.11ac 80MHz Main 5530MHz



IC 802.11ac 80MHz AUX1 5210MHz

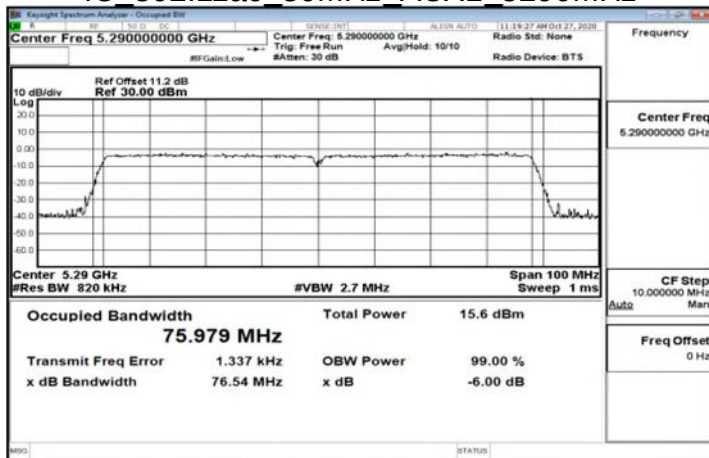


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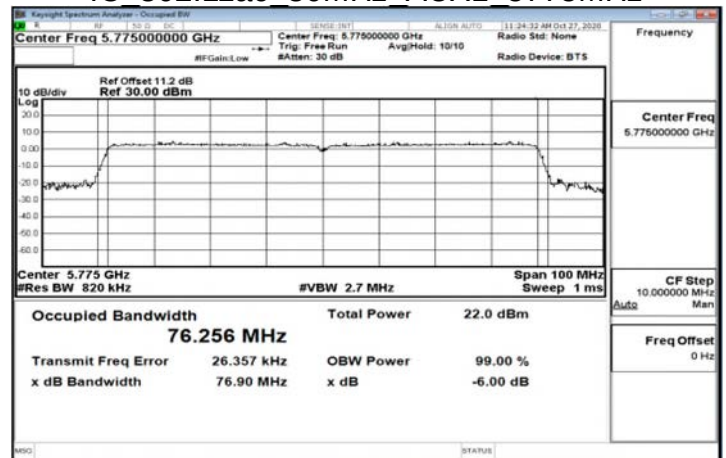
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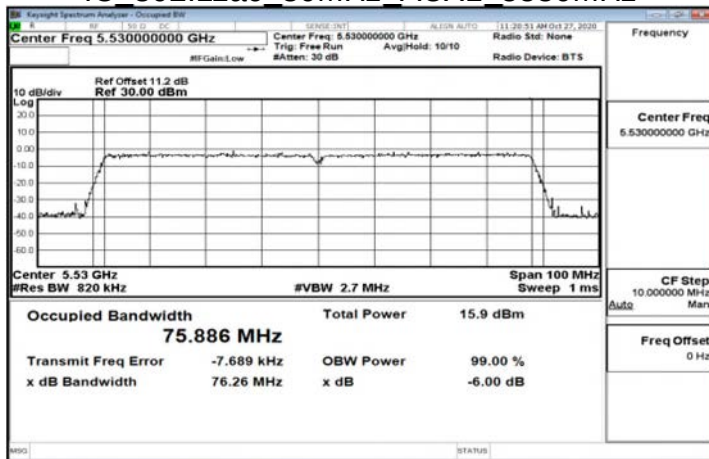
IC 802.11ac 80MHz AUX1 5290MHz



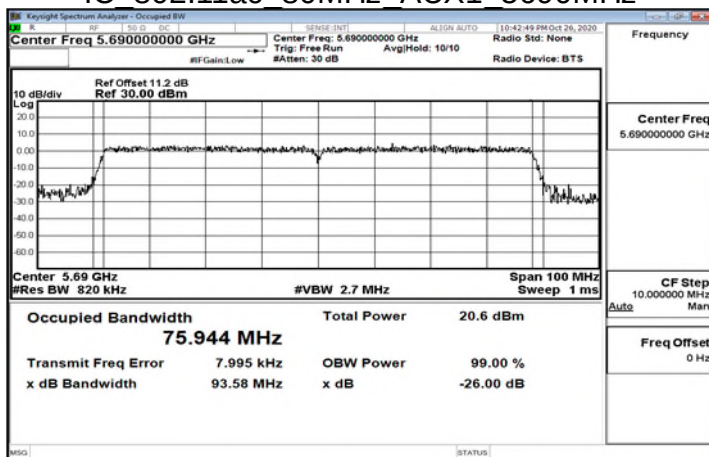
IC 802.11ac 80MHz AUX1 5775MHz



IC 802.11ac 80MHz AUX1 5530MHz



IC 802.11ac 80MHz AUX1 5690MHz



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8.5.5 26dB BW Verification for DFS Function

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.34	< 5250
5745	5736.72	> 5725

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.25	< 5250
5745	5736.72	> 5725

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.91	< 5250
5745	5736.09	> 5725

802.11n_HT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.88	< 5250
5745	5736.15	> 5725

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.10	< 5250
5755	5736.90	> 5725

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.10	< 5250
5755	5736.95	> 5725

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.90	< 5250
5775	5737.00	> 5725

802.11ac_VHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.00	< 5250
5775	5737.00	> 5725

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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.			

ISED

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm
5250~5350 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm
5470-5600 MHz and 5650-5725 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm
5725~5850 MHz	Conducted output power shall not exceed 1 W
For equipment operating in the band 5725-5850 MHz, 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 directional gain of the antenna exceeds 6 dBi.	

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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.

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

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

$g_{j,k}$ = 1/20 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 not greater than 6 dBi. Therefore, reduction of power is not required.

FCC Power Limit Reduction

	Effective Legacy Gain (dBi)	Conducted Power Limit (dBm)
UNII-1	7.76	28.24
UNII-2A	7.76	22.22
U-NII-2C	7.76	22.22
U-NII-3	7.76	28.24

ISED Power Limit Reduction

	Effective Legacy Gain (dBi)	Conducted Power Limit (dBm)
U-NII-3	7.76	28.24

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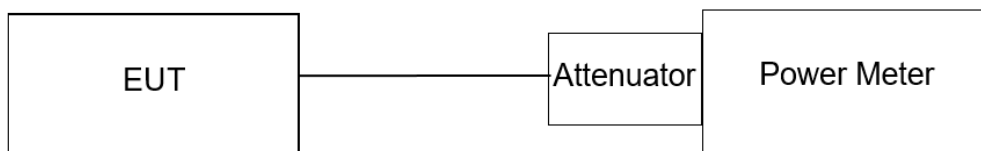
9.2 Measurement Procedure

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					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	DHA	DPS-3003	9411005787	08/19/2020	08/18/2021
Power Meter	Anritsu	ML2496A	1804002	04/06/2020	04/05/2021
Power Sensor	Anritsu	MA2411B	1726105	04/06/2020	04/05/2021
Power Sensor	Anritsu	MA2411B	1726106	04/06/2020	04/05/2021
Attenuator	Marvelous	MVE2213-10	RF80	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF245	11/20/2019	11/19/2020

9.4 Test Set-up



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9.5 Measurement Result

9.5.1 Conducted output power (FCC)

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	9.58	9.068	23.98	PASS
44	5220	6	9.67	9.258	23.98	PASS
48	5240	6	9.64	9.194	23.98	PASS
52	5260	6	15.90	38.861	23.98 or $11+10\log(B) = 24.23$	PASS
60	5300	6	15.86	38.505	23.98 or $11+10\log(B) = 24.18$	PASS
64	5320	6	11.65	14.606	23.98 or $11+10\log(B) = 23.87$	PASS
100	5500	6	10.80	12.009	23.98 or $11+10\log(B) = 23.88$	PASS
116	5580	6	15.77	37.715	23.98 or $11+10\log(B) = 24.65$	PASS
140	5700	6	10.62	11.522	23.98 or $11+10\log(B) = 24.06$	PASS
144	5720(U-NII 2C)	6	14.56	28.55	23.98 or $11+10\log(B) = 23.98$	PASS
144	5720 (U-NII 3)	6	9.74	9.42	30	PASS
149	5745	6	16.91	49.036	30	PASS
157	5785	6	16.90	48.924	30	PASS
165	5825	6	16.88	48.699	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	9.69	9.301	23.98	PASS
44	5220	6	9.78	9.495	23.98	PASS
48	5240	6	9.73	9.387	23.98	PASS
52	5260	6	15.93	39.131	23.98 or $11+10\log(B) = 24.86$	PASS
60	5300	6	15.89	38.772	23.98 or $11+10\log(B) = 24.82$	PASS
64	5320	6	11.69	14.741	23.98 or $11+10\log(B) = 23.94$	PASS
100	5500	6	10.87	12.204	23.98 or $11+10\log(B) = 23.92$	PASS
116	5580	6	15.80	37.977	23.98 or $11+10\log(B) = 24.62$	PASS
140	5700	6	10.70	11.736	23.98 or $11+10\log(B) = 24.32$	PASS
144	5720(U-NII 2C)	6	14.53	28.39	23.98 or $11+10\log(B) = 24.11$	PASS
144	5720 (U-NII 3)	6	9.90	9.76	30	PASS
149	5745	6	16.95	49.490	30	PASS
157	5785	6	16.92	49.149	30	PASS
165	5825	6	16.97	49.718	30	PASS

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802.11a_2Tx

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	12.69	18.565	22.21970004	PASS
44	5220	6	12.74	18.793	22.21970004	PASS
48	5240	6	12.74	18.803	22.21970004	PASS
52	5260	6	18.81	76.069	22.22 or 11+10log(B) = 24.23	PASS
60	5300	6	18.89	77.379	22.22 or 11+10log(B) = 24.18	PASS
64	5320	6	14.86	30.633	22.22 or 11+10log(B) = 23.87	PASS
100	5500	6	13.91	24.594	22.22 or 11+10log(B) = 23.88	PASS
116	5580	6	18.82	76.258	22.22 or 11+10log(B) = 24.62	PASS
140	5700	6	13.92	24.665	22.22 or 11+10log(B) = 24.06	PASS
144	5720(U-NII 2C)	6	17.59	57.464	22.22 or 11+10log(B) = 23.98	PASS
144	5720 (U-NII 3)	6	12.78	18.962	28.23970004	PASS
149	5745	6	19.98	99.536	28.23970004	PASS
157	5785	6	19.96	99.079	28.23970004	PASS
165	5825	6	19.94	98.624	28.23970004	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	9.67	9.265	23.98	PASS
44	5220	MCS0	9.61	9.138	23.98	PASS
48	5240	MCS0	9.63	9.180	23.98	PASS
52	5260	MCS0	15.64	36.632	23.98 or 11+10log(B) = 25.61	PASS
60	5300	MCS0	15.59	36.213	23.98 or 11+10log(B) = 24.69	PASS
64	5320	MCS0	11.61	14.483	23.98 or 11+10log(B) = 24.01	PASS
100	5500	MCS0	10.82	12.074	23.98 or 11+10log(B) = 24.01	PASS
116	5580	MCS0	15.85	38.447	23.98 or 11+10log(B) = 24.91	PASS
140	5700	MCS0	8.70	7.411	23.98 or 11+10log(B) = 25.10	PASS
144	5720(U-NII 2C)	MCS0	14.20	26.29	23.98 or 11+10log(B) = 25.16	PASS
144	5720 (U-NII 3)	MCS0	10.69	11.71	30	PASS
149	5745	MCS0	16.91	49.075	30	PASS
157	5785	MCS0	16.87	48.625	30	PASS
165	5825	MCS0	16.83	48.180	30	PASS

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802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	9.80	9.547	23.98	PASS
44	5220	MCS0	9.77	9.481	23.98	PASS
48	5240	MCS0	9.81	9.569	23.98	PASS
52	5260	MCS0	15.86	38.536	23.98 or $11+10\log(B) = 25.29$	PASS
60	5300	MCS0	15.79	37.919	23.98 or $11+10\log(B) = 25.43$	PASS
64	5320	MCS0	11.66	14.651	23.98 or $11+10\log(B) = 24.02$	PASS
100	5500	MCS0	10.97	12.499	23.98 or $11+10\log(B) = 24.00$	PASS
116	5580	MCS0	15.90	38.892	23.98 or $11+10\log(B) = 25.09$	PASS
140	5700	MCS0	8.99	7.923	23.98 or $11+10\log(B) = 25.01$	PASS
144	5720(U-NII 2C)	MCS0	14.39	27.50	23.98 or $11+10\log(B) = 25.00$	PASS
144	5720 (U-NII 3)	MCS0	10.73	11.84	30	PASS
149	5745	MCS0	16.99	49.988	30	PASS
157	5785	MCS0	16.98	49.873	30	PASS
165	5825	MCS0	16.96	49.644	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS8	12.71	18.647	22.21970004	PASS
44	5220	MCS8	12.79	19.006	22.21970004	PASS
48	5240	MCS8	12.78	18.981	22.21970004	PASS
52	5260	MCS8	18.90	77.616	22.22 or $11+10\log(B) = 25.29$	PASS
60	5300	MCS8	18.97	78.919	22.22 or $11+10\log(B) = 24.69$	PASS
64	5320	MCS8	14.93	31.091	22.22 or $11+10\log(B) = 24.01$	PASS
100	5500	MCS8	13.99	25.059	22.22 or $11+10\log(B) = 24.00$	PASS
116	5580	MCS8	18.94	78.329	22.22 or $11+10\log(B) = 24.91$	PASS
140	5700	MCS8	11.95	15.671	22.22 or $11+10\log(B) = 25.01$	PASS
144	5720(U-NII 2C)	MCS8	17.23	52.853	22.22 or $11+10\log(B) = 25.00$	PASS
144	5720 (U-NII 3)	MCS8	13.72	23.547	28.23970004	PASS
149	5745	MCS8	19.53	89.662	28.23970004	PASS
157	5785	MCS8	19.52	89.632	28.23970004	PASS
165	5825	MCS8	19.56	90.365	28.23970004	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	8.81	7.603	23.98	PASS
46	5230	MCS0	11.72	14.859	23.98	PASS
54	5270	MCS0	14.72	29.648	23.98 or $11+10\log(B) = 27.13$	PASS
62	5310	MCS0	8.98	7.907	23.98 or $11+10\log(B) = 27.08$	PASS
102	5510	MCS0	8.91	7.780	23.98 or $11+10\log(B) = 27.05$	PASS
110	5550	MCS0	14.81	30.269	23.98 or $11+10\log(B) = 27.05$	PASS
134	5670	MCS0	11.65	14.622	23.98 or $11+10\log(B) = 27.16$	PASS
142	5710(U-NII 2C)	MCS0	14.21	26.35	23.98 or $11+10\log(B) = 27.07$	PASS
142	5710 (U-NII 3)	MCS0	5.93	3.92	30	PASS
151	5755	MCS0	14.70	29.512	30	PASS
159	5795	MCS0	15.98	39.628	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	8.87	7.709	23.98	PASS
46	5230	MCS0	11.83	15.241	23.98	PASS
54	5270	MCS0	14.91	30.974	23.98 or $11+10\log(B) = 27.06$	PASS
62	5310	MCS0	8.98	7.907	23.98 or $11+10\log(B) = 27.07$	PASS
102	5510	MCS0	8.99	7.925	23.98 or $11+10\log(B) = 27.05$	PASS
110	5550	MCS0	14.98	31.478	23.98 or $11+10\log(B) = 27.08$	PASS
134	5670	MCS0	11.78	15.066	23.98 or $11+10\log(B) = 27.17$	PASS
142	5710(U-NII 2C)	MCS0	14.33	27.12	23.98 or $11+10\log(B) = 27.06$	PASS
142	5710 (U-NII 3)	MCS0	6.02	4.00	30	PASS
151	5755	MCS0	14.86	30.620	30	PASS
159	5795	MCS0	15.99	39.719	30	PASS

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802.11n HT40_MIMO

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS8	11.84	15.280	22.21970004	PASS
46	5230	MCS8	14.86	30.612	22.21970004	PASS
54	5270	MCS8	17.83	60.743	22.22 or $11+10\log(B) = 27.06$	PASS
62	5310	MCS8	11.98	15.794	22.22 or $11+10\log(B) = 27.07$	PASS
102	5510	MCS8	11.97	15.743	22.22 or $11+10\log(B) = 27.05$	PASS
110	5550	MCS8	17.84	60.826	22.22 or $11+10\log(B) = 27.05$	PASS
134	5670	MCS8	14.98	31.460	22.22 or $11+10\log(B) = 27.16$	PASS
142	5710(U-NII 2C)	MCS8	17.27	53.386	22.22 or $11+10\log(B) = 27.06$	PASS
142	5720 (U-NII 3)	MCS8	8.99	7.932	28.23970004	PASS
151	5755	MCS8	17.74	59.392	28.23970004	PASS
159	5795	MCS8	18.98	79.133	28.23970004	PASS

802.11ac VHT80 Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	6.51	4.473	23.98	PASS
58	5290	MCS0	6.75	4.727	23.98 or $11+10\log(B) = 30.08$	PASS
106	5530	MCS0	6.74	4.716	23.98 or $11+10\log(B) = 30.10$	PASS
122	5610	MCS0	13.52	22.469	23.98 or $11+10\log(B) = 30.50$	PASS
138	5690(U-NII 2C)	MCS0	13.01	19.99	23.98 or $11+10\log(B) = 30.60$	PASS
138	5690 (U-NII 3)	MCS0	4.20	2.63	30	PASS
155	5775	MCS0	14.74	29.756	30	PASS

802.11ac VHT80 Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	6.91	4.904	23.98	PASS
58	5290	MCS0	6.99	4.995	23.98 or $11+10\log(B) = 30.10$	PASS
106	5530	MCS0	6.92	4.916	23.98 or $11+10\log(B) = 30.07$	PASS
122	5610	MCS0	13.58	22.781	23.98 or $11+10\log(B) = 30.90$	PASS
138	5690(U-NII 2C)	MCS0	13.39	21.82	23.98 or $11+10\log(B) = 30.69$	PASS
138	5690 (U-NII 3)	MCS0	4.91	3.10	30	PASS
155	5775	MCS0	14.90	30.873	30	PASS

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802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	9.59	9.091	22.21970004	PASS
58	5290	MCS0	9.86	9.686	22.22 or 11+10log(B) = 30.08	PASS
106	5530	MCS0	9.53	8.968	22.22 or 11+10log(B) = 30.07	PASS
122	5610	MCS0	16.98	49.888	22.22 or 11+10log(B) = 30.50	PASS
138	5690(U-NII 2C)	MCS0	16.10	40.739	22.22 or 11+10log(B) = 30.60	PASS
138	5690 (U-NII 3)	MCS0	7.30	5.364	28.23970004	PASS
155	5775	MCS0	17.97	62.603	28.23970004	PASS

9.5.2 ISED EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	9.58	4.750	14.33	27.072	23.01 or 10+10log(B)= 22.24	PASS
44	5220	9.67	4.750	14.42	27.639	23.01 or 10+10log(B)= 22.25	PASS
48	5240	9.64	4.750	14.39	27.448	23.01 or 10+10log(B)= 22.25	PASS
52	5260	15.90	4.750	20.65	116.016	30 or 17+10log(B)= 29.28	PASS
60	5300	15.86	4.750	20.61	114.952	30 or 17+10log(B)= 29.26	PASS
64	5320	11.65	4.750	16.40	43.603	30 or 17+10log(B)= 29.25	PASS
100	5500	10.80	4.750	15.55	35.852	30 or 17+10log(B)= 29.25	PASS
116	5580	15.77	4.750	20.52	112.595	30 or 17+10log(B)= 29.27	PASS
140	5700	10.62	4.750	15.37	34.397	30 or 17+10log(B)= 29.26	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	9.69	4.750	14.44	27.766	23.01 or 10+10log(B)= 22.25	PASS
44	5220	9.78	4.750	14.53	28.348	23.01 or 10+10log(B)= 22.26	PASS
48	5240	9.73	4.750	14.48	28.023	23.01 or 10+10log(B)= 22.24	PASS
52	5260	15.93	4.750	20.68	116.820	30 or 17+10log(B)= 29.24	PASS
60	5300	15.89	4.750	20.64	115.749	30 or 17+10log(B)= 29.27	PASS
64	5320	11.69	4.750	16.44	44.007	30 or 17+10log(B)= 29.26	PASS
100	5500	10.87	4.750	15.62	36.435	30 or 17+10log(B)= 29.23	PASS
116	5580	15.80	4.750	20.55	113.375	30 or 17+10log(B)= 29.25	PASS
140	5700	10.70	4.750	15.45	35.036	30 or 17+10log(B)= 29.26	PASS

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802.11a_2Tx

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	12.69	7.760	20.45	110.847	23.01	or 10+10log(B)= 22.24	PASS
44	5220	12.74	7.760	20.50	112.211	23.01	or 10+10log(B)= 22.25	PASS
48	5240	12.74	7.760	20.50	112.271	23.01	or 10+10log(B)= 22.24	PASS
52	5260	18.81	7.760	26.57	454.188	30	or 17+10log(B)= 29.24	PASS
60	5300	18.89	7.760	26.65	462.010	30	or 17+10log(B)= 29.26	PASS
64	5320	14.86	7.760	22.62	182.905	30	or 17+10log(B)= 29.25	PASS
100	5500	13.91	7.760	21.67	146.848	30	or 17+10log(B)= 29.23	PASS
116	5580	18.82	7.760	26.58	455.317	30	or 17+10log(B)= 29.25	PASS
140	5700	13.92	7.760	21.68	147.271	30	or 17+10log(B)= 29.26	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	9.67	4.750	14.42	27.661	23.01	or 10+10log(B)= 22.48	PASS
44	5220	9.61	4.750	14.36	27.281	23.01	or 10+10log(B)= 22.51	PASS
48	5240	9.63	4.750	14.38	27.407	23.01	or 10+10log(B)= 22.51	PASS
52	5260	15.64	4.750	20.39	109.361	30	or 17+10log(B)= 29.50	PASS
60	5300	15.59	4.750	20.34	108.109	30	or 17+10log(B)= 29.52	PASS
64	5320	11.61	4.750	16.36	43.238	30	or 17+10log(B)= 29.48	PASS
100	5500	10.82	4.750	15.57	36.046	30	or 17+10log(B)= 29.48	PASS
116	5580	15.85	4.750	20.60	114.779	30	or 17+10log(B)= 29.51	PASS
140	5700	8.70	4.750	13.45	22.124	30	or 17+10log(B)= 29.51	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	9.80	4.750	14.55	28.501	23.01	or 10+10log(B)= 22.48	PASS
44	5220	9.77	4.750	14.52	28.305	23.01	or 10+10log(B)= 22.50	PASS
48	5240	9.81	4.750	14.56	28.567	23.01	or 10+10log(B)= 22.50	PASS
52	5260	15.86	4.750	20.61	115.044	30	or 17+10log(B)= 29.50	PASS
60	5300	15.79	4.750	20.54	113.204	30	or 17+10log(B)= 29.50	PASS
64	5320	11.66	4.750	16.41	43.738	30	or 17+10log(B)= 29.48	PASS
100	5500	10.97	4.750	15.72	37.313	30	or 17+10log(B)= 29.48	PASS
116	5580	15.90	4.750	20.65	116.108	30	or 17+10log(B)= 29.51	PASS
140	5700	8.99	4.750	13.74	23.652	30	or 17+10log(B)= 29.51	PASS

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802.11n_HT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	12.71	7.760	20.47	111.339	23.01	or 10+10log(B)= 22.48	PASS
44	5220	12.79	7.760	20.55	113.480	23.01	or 10+10log(B)= 22.50	PASS
48	5240	12.78	7.760	20.54	113.330	23.01	or 10+10log(B)= 22.50	PASS
52	5260	18.90	7.760	26.66	463.426	30	or 17+10log(B)= 29.50	PASS
60	5300	18.97	7.760	26.73	471.207	30	or 17+10log(B)= 29.50	PASS
64	5320	14.93	7.760	22.69	185.640	30	or 17+10log(B)= 29.48	PASS
100	5500	13.99	7.760	21.75	149.622	30	or 17+10log(B)= 29.48	PASS
116	5580	18.94	7.760	26.70	467.684	30	or 17+10log(B)= 29.51	PASS
140	5700	11.95	7.760	19.71	93.568	30	or 17+10log(B)= 29.51	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
38	5190	8.81	4.750	13.56	22.699	23.01	or 10+10log(B)= 25.58	PASS
46	5230	11.72	4.750	16.47	44.361	23.01	or 10+10log(B)= 25.58	PASS
54	5270	14.72	4.750	19.47	88.512	30	or 17+10log(B)= 32.59	PASS
62	5310	8.98	4.750	13.73	23.605	30	or 17+10log(B)= 32.59	PASS
102	5510	8.91	4.750	13.66	23.227	30	or 17+10log(B)= 32.59	PASS
110	5550	14.81	4.750	19.56	90.365	30	or 17+10log(B)= 32.59	PASS
134	5670	11.65	4.750	16.40	43.652	30	or 17+10log(B)= 32.59	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
38	5190	8.87	4.750	13.62	23.014	23.01	or 10+10log(B)= 25.59	PASS
46	5230	11.83	4.750	16.58	45.499	23.01	or 10+10log(B)= 25.59	PASS
54	5270	14.91	4.750	19.66	92.470	30	or 17+10log(B)= 32.59	PASS
62	5310	8.98	4.750	13.73	23.605	30	or 17+10log(B)= 32.59	PASS
102	5510	8.99	4.750	13.74	23.659	30	or 17+10log(B)= 32.59	PASS
110	5550	14.98	4.750	19.73	93.972	30	or 17+10log(B)= 32.59	PASS
134	5670	11.78	4.750	16.53	44.978	30	or 17+10log(B)= 32.59	PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
38	5190	11.84	7.760	19.60	91.234	23.01	or $10+10\log(B)=$ 25.58	PASS
46	5230	14.86	7.760	22.62	182.774	23.01	or $10+10\log(B)=$ 25.58	PASS
54	5270	17.83	7.760	25.60	362.681	30	or $17+10\log(B)=$ 32.59	PASS
62	5310	11.98	7.760	19.75	94.303	30	or $17+10\log(B)=$ 32.59	PASS
102	5510	11.97	7.760	19.73	94.000	30	or $17+10\log(B)=$ 32.59	PASS
110	5550	17.84	7.760	25.60	363.177	30	or $17+10\log(B)=$ 32.59	PASS
134	5670	14.98	7.760	22.74	187.841	30	or $17+10\log(B)=$ 32.59	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
42	5210	6.51	4.750	11.26	13.353	23.01	or $10+10\log(B)=$ 28.80	PASS
58	5290	6.75	4.750	11.50	14.112	30	or $17+10\log(B)=$ 35.80	PASS
106	5530	6.74	4.750	11.49	14.079	30	or $17+10\log(B)=$ 35.80	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
42	5210	6.91	4.750	11.66	14.641	23.01	or $10+10\log(B)=$ 28.80	PASS
58	5290	6.99	4.750	11.74	14.913	30	or $17+10\log(B)=$ 35.81	PASS
106	5530	6.92	4.750	11.67	14.675	30	or $17+10\log(B)=$ 35.80	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
42	5210	9.59	7.760	17.35	54.279	23.01	or $10+10\log(B)=$ 28.80	PASS
58	5290	9.86	7.760	17.62	57.835	30	or $17+10\log(B)=$ 35.80	PASS
106	5530	9.53	7.760	17.29	53.548	30	or $17+10\log(B)=$ 35.80	PASS

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9.5.3 Conducted output power (ISED)

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
52	5260	15.90	38.861	23.98	or $11+10\log(B) =$	23.28	PASS
60	5300	15.86	38.505	23.98	or $11+10\log(B) =$	23.26	PASS
64	5320	11.65	14.606	23.98	or $11+10\log(B) =$	23.25	PASS
100	5500	10.80	12.009	23.98	or $11+10\log(B) =$	23.25	PASS
116	5580	15.77	37.715	23.98	or $11+10\log(B) =$	23.27	PASS
140	5700	10.62	11.522	23.98	or $11+10\log(B) =$	23.26	PASS
144	5720(U-NII 2C)	14.56	28.554	23.98	or $11+11\log(B) =$	23.24	PASS
144	5720 (U-NII 3)	9.74	9.422	30			PASS
149	5745	16.91	49.036	30			PASS
157	5785	16.90	48.924	30			PASS
165	5825	16.88	48.699	30			PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
52	5260	15.93	39.131	23.98	or $11+10\log(B) =$	23.24	PASS
60	5300	15.89	38.772	23.98	or $11+10\log(B) =$	23.27	PASS
64	5320	11.69	14.741	23.98	or $11+10\log(B) =$	23.26	PASS
100	5500	10.87	12.204	23.98	or $11+10\log(B) =$	23.23	PASS
116	5580	15.80	37.977	23.98	or $11+10\log(B) =$	23.25	PASS
140	5700	10.70	11.736	23.98	or $11+10\log(B) =$	23.26	PASS
144	5720(U-NII 2C)	14.53	28.390	23.98	or $11+10\log(B) =$	23.26	PASS
144	5720 (U-NII 3)	9.90	9.762	30			PASS
149	5745	16.95	49.490	30			PASS
157	5785	16.92	49.149	30			PASS
165	5825	16.97	49.718	30			PASS

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802.11a 2Tx

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	18.81	76.069	22.22 or 11+10log(B) = 23.24	PASS
60	5300	18.89	77.379	22.22 or 11+10log(B) = 23.26	PASS
64	5320	14.86	30.633	22.22 or 11+10log(B) = 23.25	PASS
100	5500	13.91	24.594	22.22 or 11+10log(B) = 23.23	PASS
116	5580	18.82	76.258	22.22 or 11+10log(B) = 23.25	PASS
140	5700	13.92	24.665	22.22 or 11+10log(B) = 23.26	PASS
144	5720(U-NII 2C)	17.59	57.464	22.22 or 11+10log(B) = 23.24	PASS
144	5720 (U-NII 3)	12.78	18.962	28.23970004	PASS
149	5745	19.98	99.536	28.23970004	PASS
157	5785	19.96	99.079	28.23970004	PASS
165	5825	19.94	98.624	28.23970004	PASS

802.11n HT20 Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	15.64	36.632	23.98 or 11+10log(B) = 23.50	PASS
60	5300	15.59	36.213	23.98 or 11+10log(B) = 23.52	PASS
64	5320	11.61	14.483	23.98 or 11+10log(B) = 23.48	PASS
100	5500	10.82	12.074	23.98 or 11+10log(B) = 23.48	PASS
116	5580	15.85	38.447	23.98 or 11+10log(B) = 23.51	PASS
140	5700	8.70	7.411	23.98 or 11+10log(B) = 23.51	PASS
144	5720(U-NII 2C)	14.20	26.293	23.98 or 11+11log(B) = 23.50	PASS
144	5720 (U-NII 3)	10.69	11.714	30	PASS
149	5745	16.91	49.075	30	PASS
157	5785	16.87	48.625	30	PASS
165	5825	16.83	48.180	30	PASS

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802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
52	5260	15.86	38.536	23.98	or $11+10\log(B) =$	23.50	PASS
60	5300	15.79	37.919	23.98	or $11+10\log(B) =$	23.50	PASS
64	5320	11.66	14.651	23.98	or $11+10\log(B) =$	23.48	PASS
100	5500	10.97	12.499	23.98	or $11+10\log(B) =$	23.48	PASS
116	5580	15.90	38.892	23.98	or $11+10\log(B) =$	23.51	PASS
140	5700	8.99	7.923	23.98	or $11+10\log(B) =$	23.51	PASS
144	5720(U-NII 2C)	14.39	27.499	23.98	or $11+10\log(B) =$	23.50	PASS
144	5720 (U-NII 3)	10.73	11.843	30			PASS
149	5745	16.99	49.988	30			PASS
157	5785	16.98	49.873	30			PASS
165	5825	16.96	49.644	30			PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
52	5260	18.90	77.616	22.22	or $11+10\log(B) =$	23.50	PASS
60	5300	18.97	78.919	22.22	or $11+10\log(B) =$	23.50	PASS
64	5320	14.93	31.091	22.22	or $11+10\log(B) =$	23.48	PASS
100	5500	13.99	25.059	22.22	or $11+10\log(B) =$	23.48	PASS
116	5580	18.94	78.329	22.22	or $11+10\log(B) =$	23.51	PASS
140	5700	11.95	15.671	22.22	or $11+10\log(B) =$	23.51	PASS
144	5720(U-NII 2C)	17.23	52.853	22.22	or $11+10\log(B) =$	23.50	PASS
144	5720 (U-NII 3)	13.72	23.547	28.23970004			PASS
149	5745	19.53	89.662	28.23970004			PASS
157	5785	19.52	89.632	28.23970004			PASS
165	5825	19.56	90.365	28.23970004			PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
54	5270	14.72	29.648	23.98	or $11+10\log(B) = 26.59$	PASS
62	5310	8.98	7.907	23.98	or $11+10\log(B) = 26.59$	PASS
102	5510	8.91	7.780	23.98	or $11+10\log(B) = 26.59$	PASS
110	5550	14.81	30.269	23.98	or $11+10\log(B) = 26.59$	PASS
134	5670	11.65	14.622	23.98	or $11+10\log(B) = 26.59$	PASS
142	5710(U-NII 2C)	14.21	26.354	23.98	or $11+11\log(B) = 26.59$	PASS
142	5710 (U-NII 3)	5.93	3.915	30		PASS
151	5755	14.70	29.512	30		PASS
159	5795	15.98	39.628	30		PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
54	5270	14.91	30.974	23.98	or $11+10\log(B) = 26.59$	PASS
62	5310	8.98	7.907	23.98	or $11+10\log(B) = 26.59$	PASS
102	5510	8.99	7.925	23.98	or $11+10\log(B) = 26.59$	PASS
110	5550	14.98	31.478	23.98	or $11+10\log(B) = 26.59$	PASS
134	5670	11.78	15.066	23.98	or $11+10\log(B) = 26.59$	PASS
142	5710(U-NII 2C)	14.33	27.121	23.98	or $11+10\log(B) = 26.59$	PASS
142	5710 (U-NII 3)	6.02	3.997	30		PASS
151	5755	14.86	30.620	30		PASS
159	5795	15.99	39.719	30		PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
54	5270	17.83	60.743	22.22	or $11+10\log(B) = 26.59$	PASS
62	5310	11.98	15.794	22.22	or $11+10\log(B) = 26.59$	PASS
102	5510	11.97	15.743	22.22	or $11+10\log(B) = 26.59$	PASS
110	5550	17.84	60.826	22.22	or $11+10\log(B) = 26.59$	PASS
134	5670	14.98	31.460	22.22	or $11+10\log(B) = 26.59$	PASS
142	5710(U-NII 2C)	17.27	53.386	22.22	or $11+10\log(B) = 26.59$	PASS
142	5710 (U-NII 3)	8.99	7.932	28.23970004		PASS
151	5755	17.74	59.392	28.23970004		PASS
159	5795	18.98	79.133	28.23970004		PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	6.75	4.727	23.98 or $11+10\log(B) = 29.80$	PASS
106	5530	6.74	4.716	23.98 or $11+10\log(B) = 29.80$	PASS
138	5690(U-NII 2C)	13.01	19.992	23.98 or $11+12\log(B) = 29.80$	PASS
138	5690 (U-NII 3)	4.20	2.632	30	PASS
155	5775	14.74	29.756	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	6.99	4.995	23.98 or $11+10\log(B) = 29.81$	PASS
106	5530	6.92	4.916	23.98 or $11+10\log(B) = 29.80$	PASS
138	5690(U-NII 2C)	13.39	21.823	23.98 or $11+10\log(B) = 29.80$	PASS
138	5690 (U-NII 3)	4.91	3.099	30	PASS
155	5775	14.90	30.873	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	9.86	9.686	22.22 or $11+10\log(B) = 29.80$	PASS
106	5530	9.53	8.968	22.22 or $11+10\log(B) = 29.80$	PASS
138	5690(U-NII 2C)	16.10	40.739	22.22 or $11+10\log(B) = 29.80$	PASS
138	5690 (U-NII 3)	7.30	5.364	28.23970004	PASS
155	5775	17.97	62.603	28.23970004	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.

ISED

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP spectral density 10 dBm / MHz
5250~5350 MHz	11dBm / MHz
5470-5600 MHz and 5650-5725 MHz	11dBm / MHz
5725~5850 MHz	30dBm / 500 kHz

For equipment operating in the band **5725-5850** MHz, 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.

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

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 not greater than 6 dBi. Therefore, reduction of power is not required.

FCC PSD Limit Attenuation

	Effective Legacy Gain (dBi)	PSD Limit	
UNII-1	7.76	9.24	dBm/MHz
UNII-2A	7.76	9.24	dBm/MHz
U-NII-2C	7.76	9.24	dBm/MHz
U-NII-3	7.76	28.24	dBm/500 kHz

ISED PSD Limit Attenuation

	Effective Legacy Gain (dBi)	PSD Limit (dBm/ 500 kHz)
U-NII-3	7.76	28.24

10.2 Measurement Procedure

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

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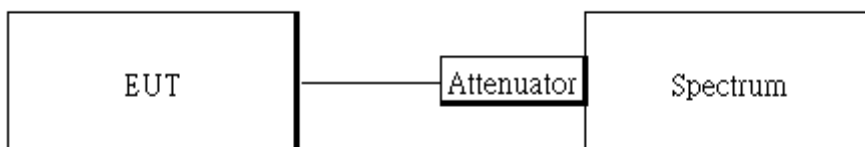
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.
8. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

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					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/17/2020	03/16/2021
DC Power Supply	DHA	DPS-3003	9411005787	08/19/2020	08/18/2021
DC Block	PASTERNAK	PE8210	RF256	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF245	11/20/2019	11/19/2020

10.4 Test Set-up



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10.5 Measurement Result

10.5.1 Power spectral density

POWER DENSITY 802.11a MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm/MHz)-UNII 1~2C (dBm/500kHz)-UNII 3	Duty Factor	PSD With Duty Factor (dBm/MHz)-UNII 1~2C (dBm/500kHz)-UNII 3	Limit (dBm/MHz)-UNII 1~2C (dBm/500kHz)-UNII 3	Margin (dB)
5180.00	1.26	0.16	1.42	9.24	-7.82
5220.00	1.44	0.16	1.60	9.24	-7.64
5240.00	1.48	0.16	1.64	9.24	-7.60
5260.00	7.84	0.16	8.00	9.24	-1.24
5300.00	7.98	0.16	8.14	9.24	-1.10
5320.00	3.06	0.16	3.22	9.24	-6.02
5500.00	3.48	0.16	3.64	9.24	-5.60
5580.00	8.03	0.16	8.19	9.24	-1.05
5700.00	7.28	0.16	7.44	9.24	-1.80
5720 (U-NII 2C)	7.47	0.16	7.62	9.24	-1.62
5720 (U-NII 3)	4.76	0.16	4.92	28.24	-23.32
5745.00	3.98	0.16	4.14	28.24	-24.10
5785.00	3.92	0.16	4.08	28.24	-24.16
5825.00	4.15	0.16	4.31	28.24	-23.93

POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm/MHz)-UNII 1~2C (dBm/500kHz)-UNII 3	Duty Factor	PSD With Duty Factor (dBm/MHz)-UNII 1~2C (dBm/500kHz)-UNII 3	Limit (dBm/MHz)-UNII 1~2C (dBm/500kHz)-UNII 3	Margin (dB)
5180	1.47	0.09	1.56	9.24	-7.68
5220	1.36	0.09	1.45	9.24	-7.79
5240	1.31	0.09	1.40	9.24	-7.84
5260	7.68	0.09	7.77	9.24	-1.47
5300	7.73	0.09	7.82	9.24	-1.42
5320	3.00	0.09	3.09	9.24	-6.15
5500	3.02	0.09	3.11	9.24	-6.13
5580	7.58	0.09	7.67	9.24	-1.57
5700	7.67	0.09	7.76	9.24	-1.48
5720 (U-NII 2C)	7.31	0.09	7.40	9.24	-1.84
5720 (U-NII 3)	4.50	0.09	4.58	28.24	-23.66
5745	4.52	0.09	4.61	28.24	-23.63
5785	4.04	0.09	4.13	28.24	-24.11
5825	4.08	0.09	4.17	28.24	-24.07

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POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm/MHz)-UNII 1~2C (dBm/500kHz)-UNII 3	Duty Factor	PSD With Duty Factor (dBm/MHz)-UNII 1~2C (dBm/500kHz)-UNII 3	Limit (dBm/MHz)-UNII 1~2C (dBm/500kHz)-UNII 3	Margin (dB)
5190	-2.37	0.18	-2.19	9.24	-11.43
5230	1.08	0.18	1.26	9.24	-7.98
5270	3.56	0.18	3.74	9.24	-5.50
5310	-2.08	0.18	-1.90	9.24	-11.14
5510	-1.71	0.18	-1.53	9.24	-10.77
5550	4.05	0.18	4.23	9.24	-5.01
5670	3.26	0.18	3.44	9.24	-5.80
5710 (U-NII 2C)	3.35	0.18	3.53	9.24	-5.71
5710 (U-NII 3)	0.58	0.18	0.76	28.24	-27.48
5755	0.18	0.18	0.36	28.24	-27.88
5795	0.11	0.18	0.29	28.24	-27.95

POWER DENSITY 802.11ac VHT80 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm/MHz)-UNII 1~2C (dBm/500kHz)-UNII 3	Duty Factor	PSD With Duty Factor (dBm/MHz)-UNII 1~2C (dBm/500kHz)-UNII 3	Limit (dBm/MHz)-UNII 1~2C (dBm/500kHz)-UNII 3	Margin (dB)
5210	-7.23	0.39	-6.84	9.24	-16.08
5290	-6.82	0.39	-6.43	9.24	-15.67
5530	-5.89	0.39	-5.50	9.24	-14.74
5690 (U-NII 2C)	-0.03	0.39	0.35	9.24	-8.89
5690 (U-NII 3)	-3.62	0.39	-3.23	28.24	-31.47
5775	-2.82	0.39	-2.43	28.24	-30.67

10.5.2 EIRP spectral density (ISED)

EIRP spectral density 802.11a MODE					
Freq. (MHz)	PSD (dBm/MHz)	Ant. Gain (dBi)	EIRP SD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5180	1.42	7.76	9.18	10	-0.82
5220	1.60	7.76	9.36	10	-0.64
5240	1.64	7.76	9.40	10	-0.60

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EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PSD (dBm/MHz)	Ant. Gain (dBi)	EIRP SD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5180	1.56	7.76	9.32	10	-0.68
5220	1.45	7.76	9.21	10	-0.79
5240	1.40	7.76	9.16	10	-0.84

EIRP spectral density 802.11ac VHT20 MODE					
Freq. (MHz)	PSD (dBm/MHz)	Ant. Gain (dBi)	EIRP SD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5180	0.09	4.75	4.84	10	-5.16
5220	0.09	4.75	4.84	10	-5.16
5240	0.09	4.75	4.84	10	-5.16

EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PSD (dBm/MHz)	Ant. Gain (dBi)	EIRP SD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5190	-2.19	7.76	5.57	10	-4.43
5230	1.26	7.76	9.02	10	-0.98

EIRP spectral density 802.11ac VHT40 MODE					
Freq. (MHz)	PSD (dBm/MHz)	Ant. Gain (dBi)	EIRP SD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5190	0.18	4.75	4.93	10	-5.07
5230	0.18	4.75	4.93	10	-5.07

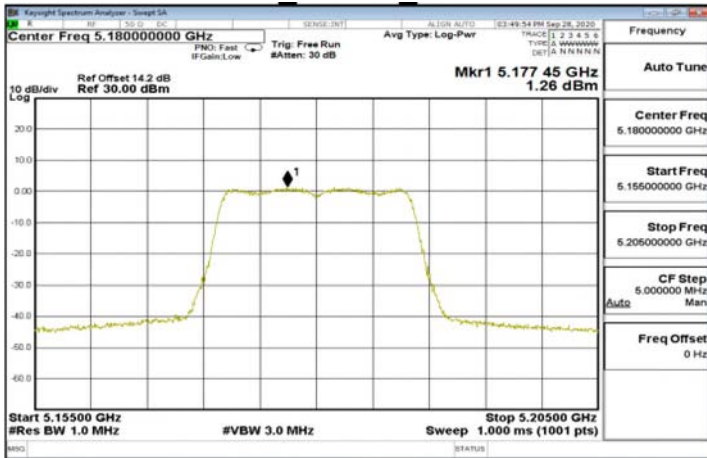
EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PSD (dBm/MHz)	Ant. Gain (dBi)	EIRP SD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5210	-6.84	7.76	0.92	10	-9.08

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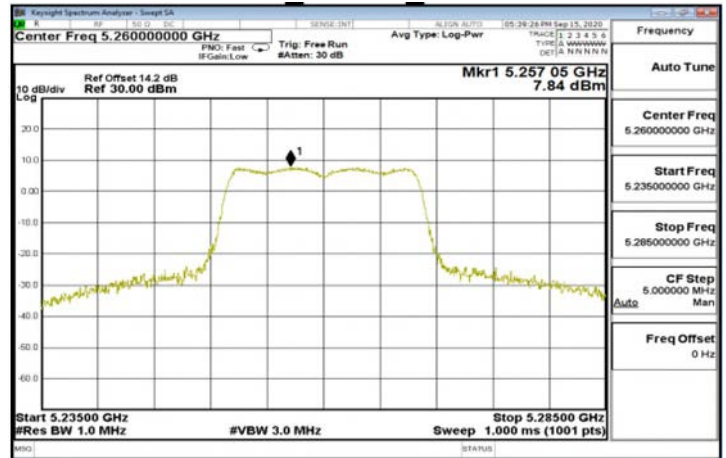
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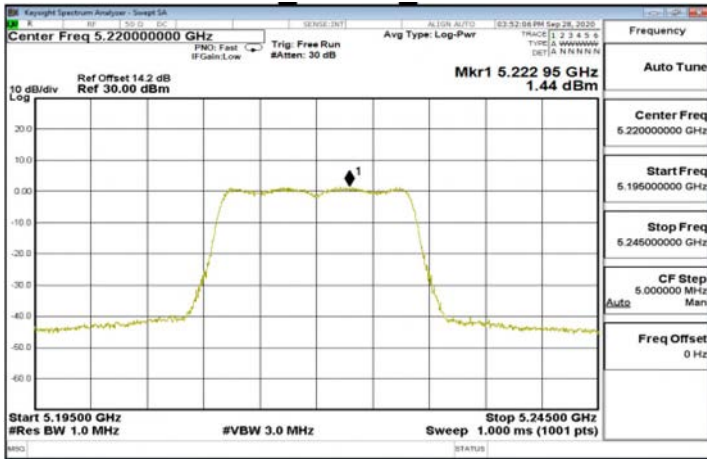
802.11a 20MHz 5180MHz



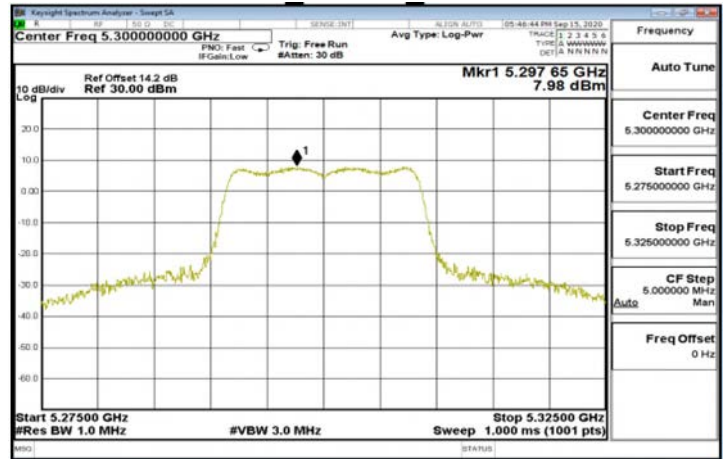
802.11a 20MHz 5260MHz



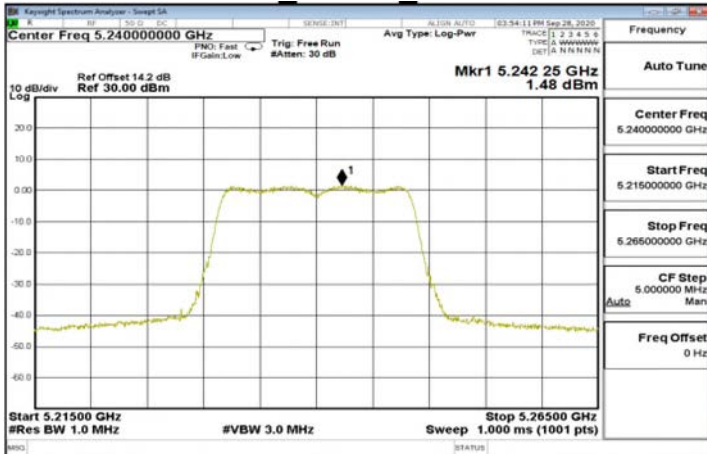
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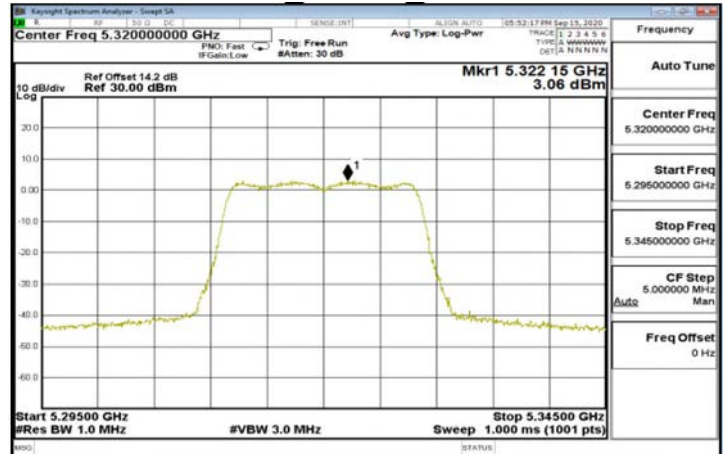
802.11a 20MHz 5300MHz



802.11a 20MHz 5240MHz



802.11a 20MHz 5320MHz

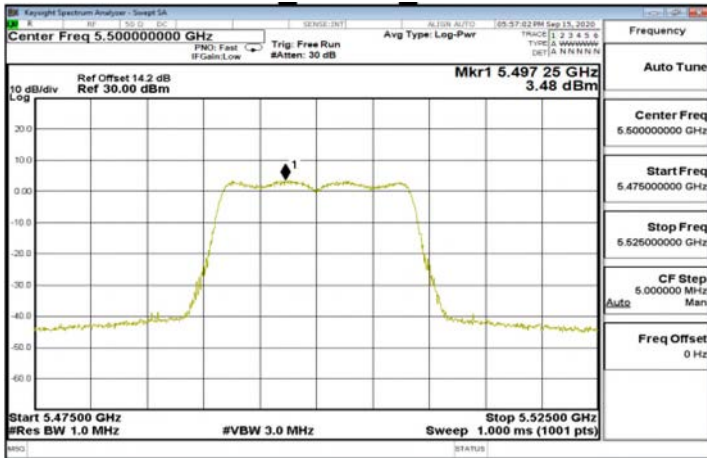


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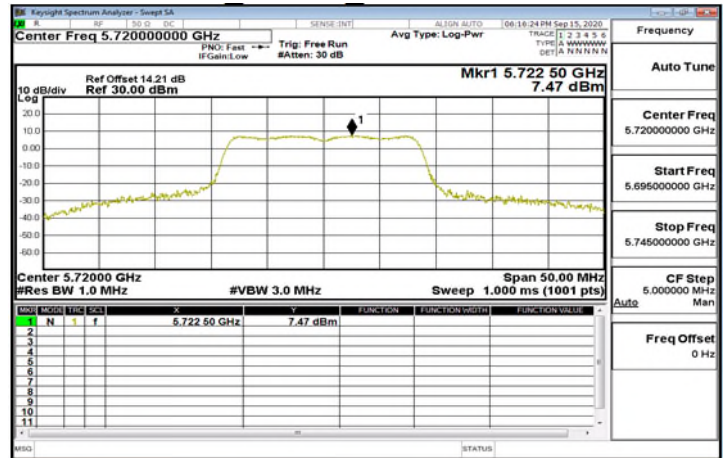
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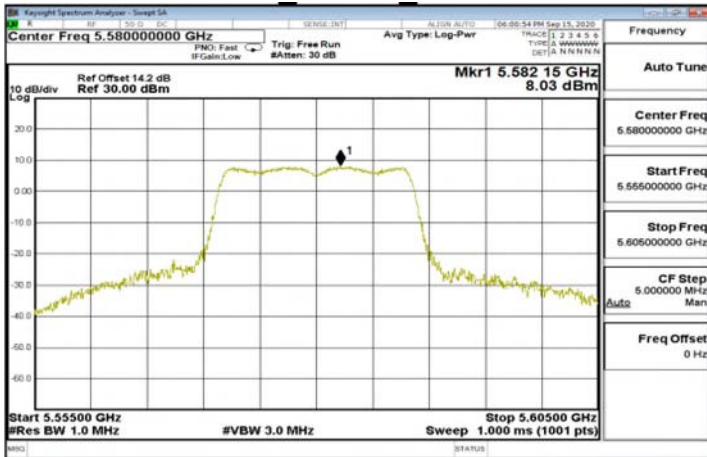
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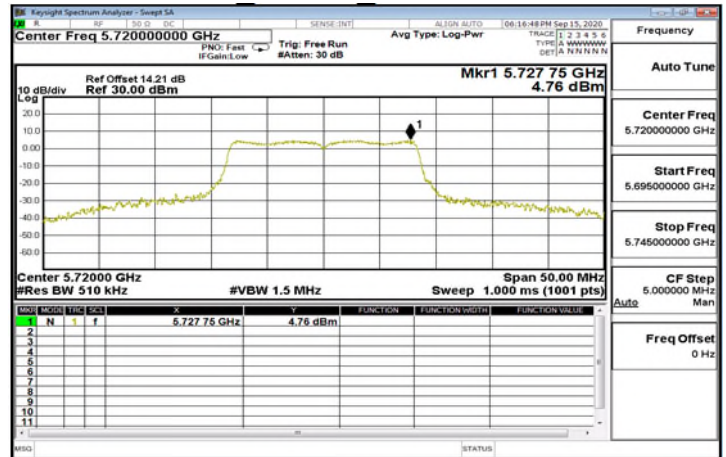
802.11a 20MHz 5720MHz UNII 2C



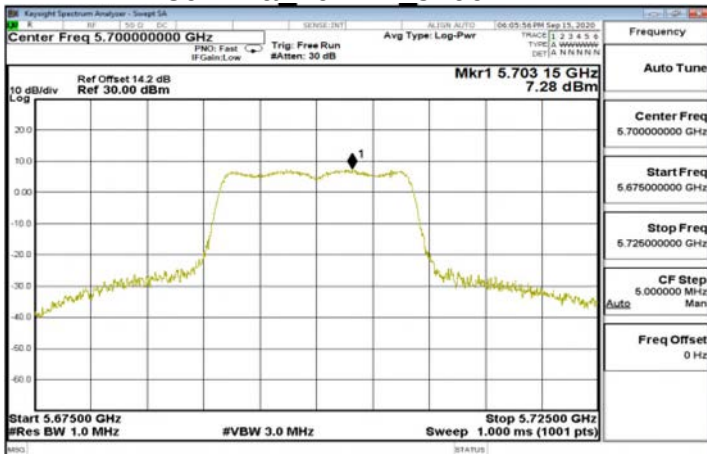
802.11a 20MHz 5580MHz



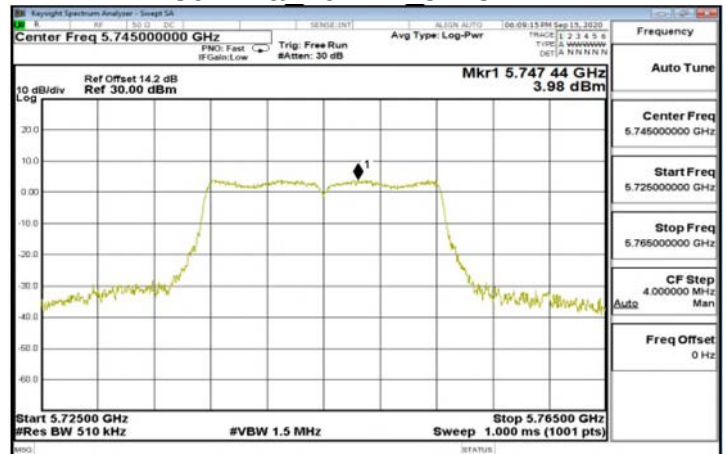
802.11a 20MHz 5720MHz UNII 3



802.11a 20MHz 5700MHz



802.11a 20MHz 5745MHz



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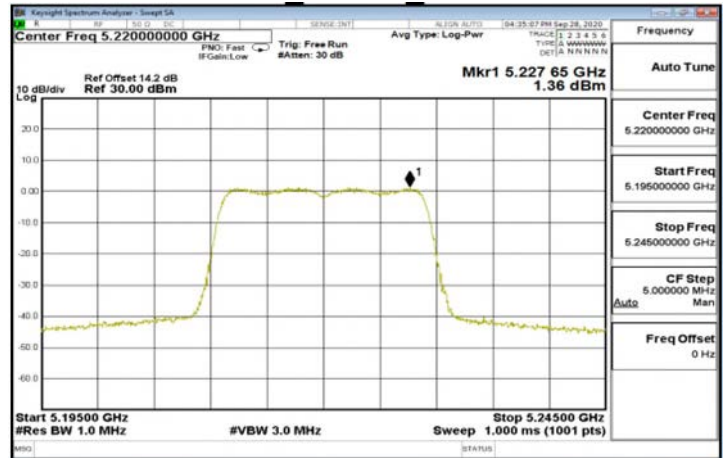
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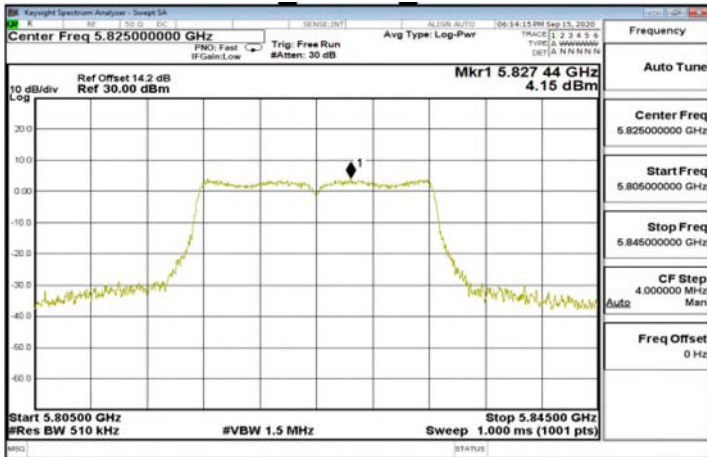
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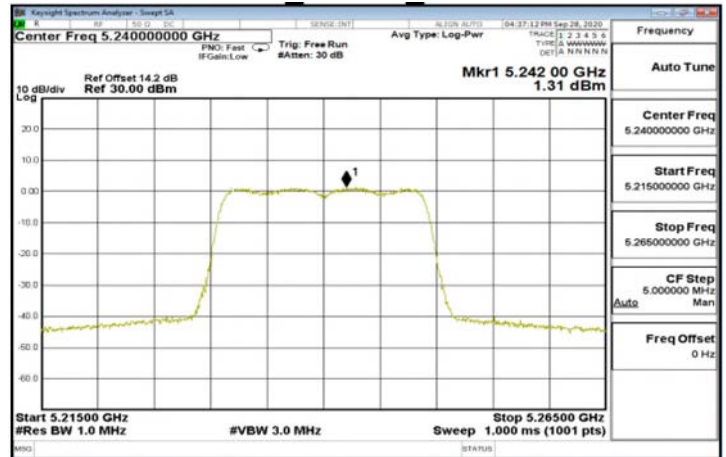
802.11n 20MHz 5220MHz



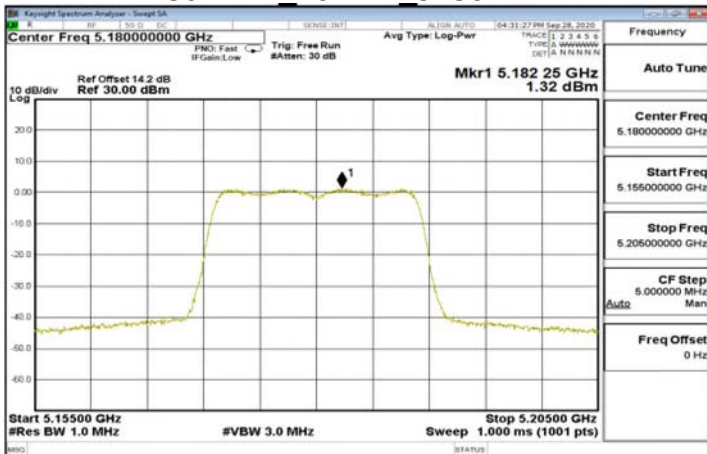
802.11a 20MHz 5825MHz



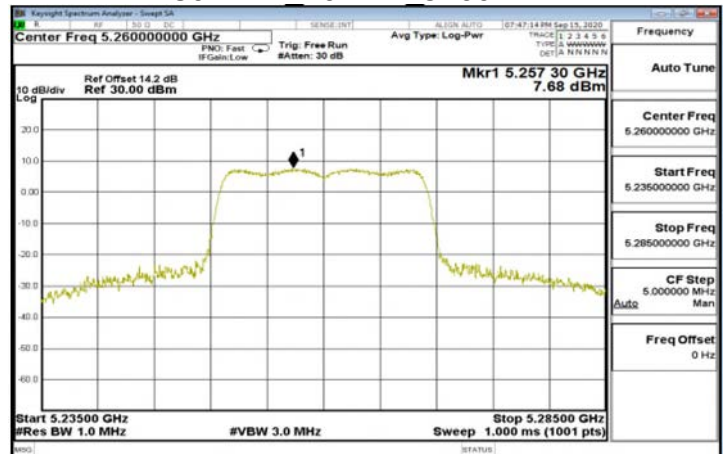
802.11n 20MHz 5240MHz



802.11n 20MHz 5180MHz



802.11n 20MHz 5260MHz

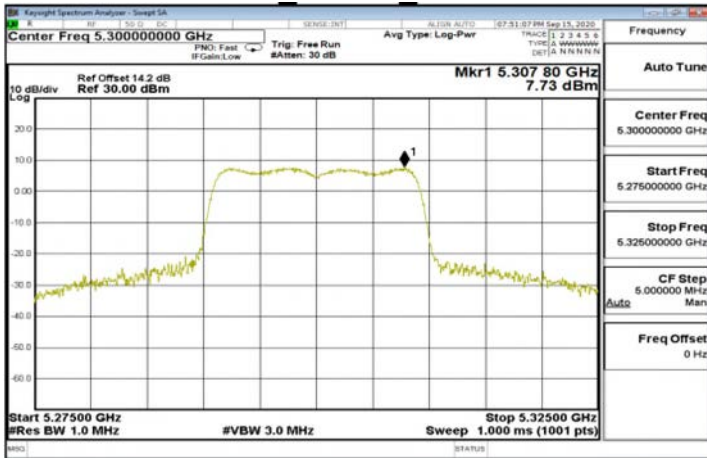


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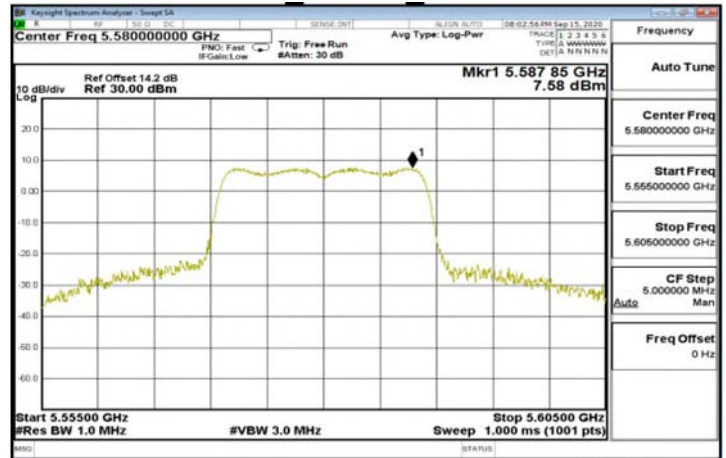
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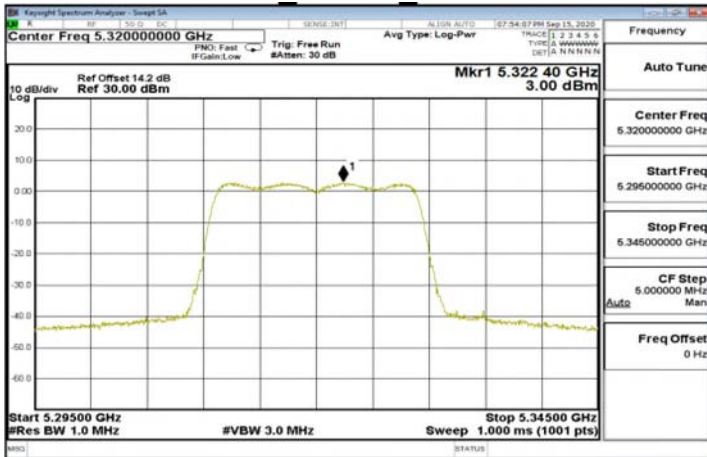
802.11n 20MHz 5300MHz



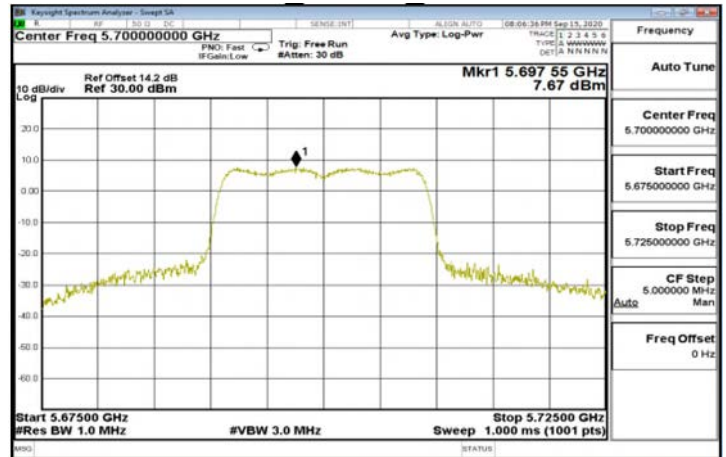
802.11n 20MHz 5580MHz



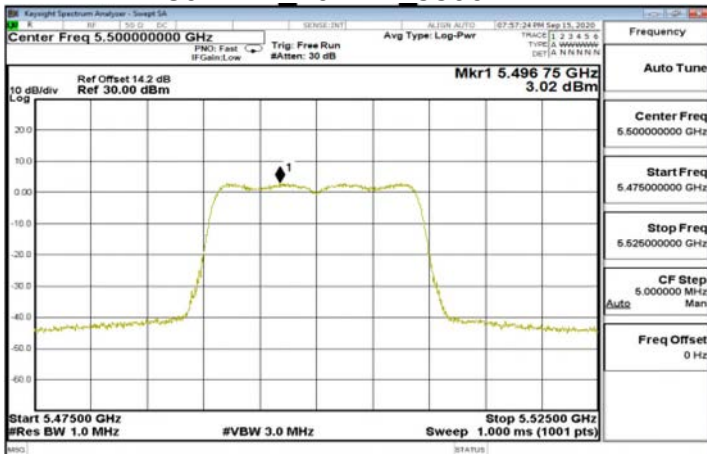
802.11n 20MHz 5320MHz



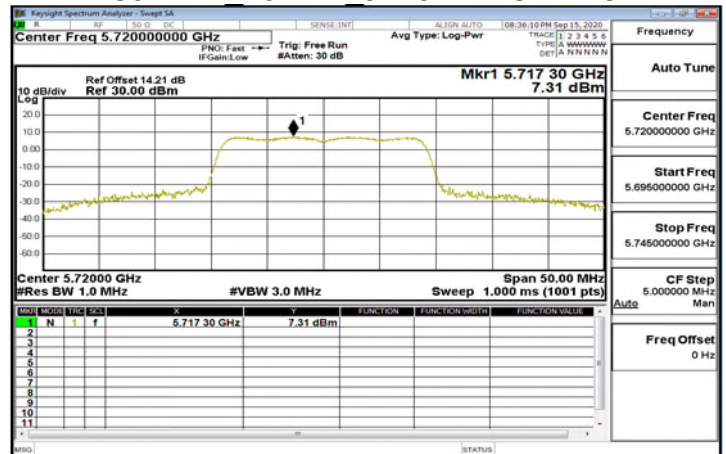
802.11n 20MHz 5700MHz



802.11n 20MHz 5500MHz



802.11n 20MHz 5720MHz UNII 2C

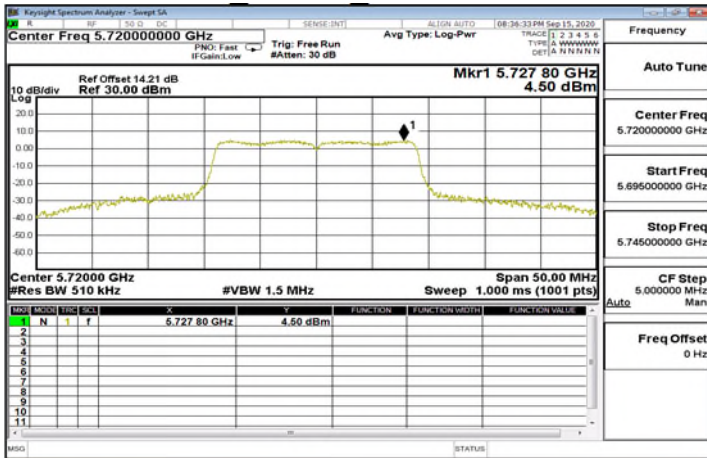


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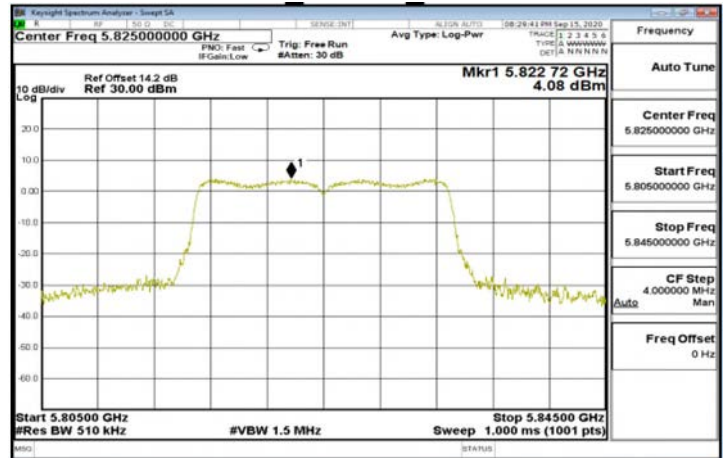
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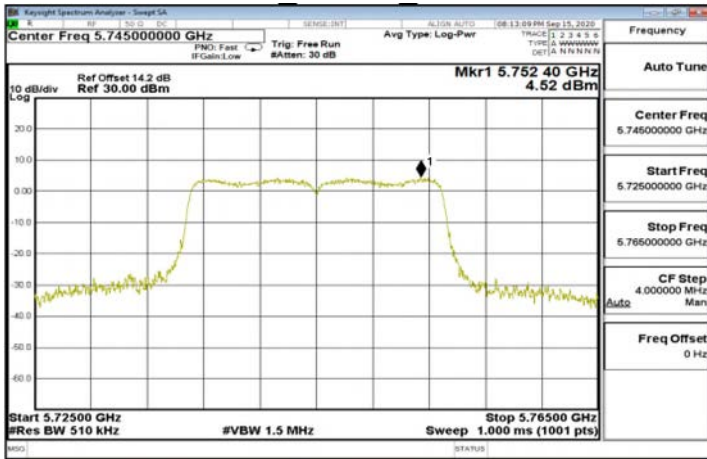
802.11n 20MHz 5720MHz UNII 3



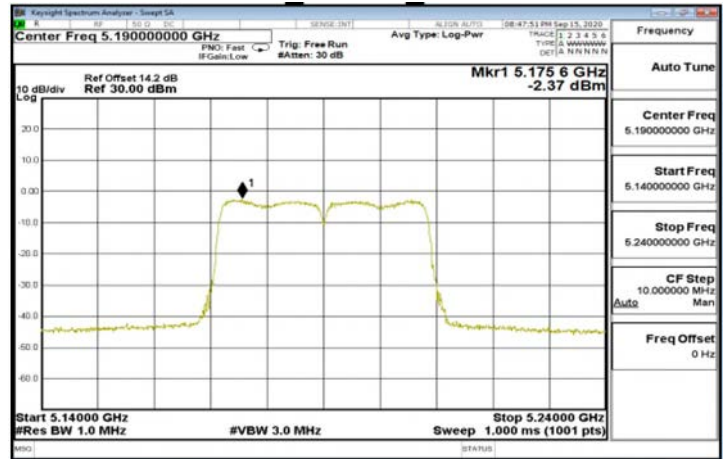
802.11n 20MHz 5825MHz



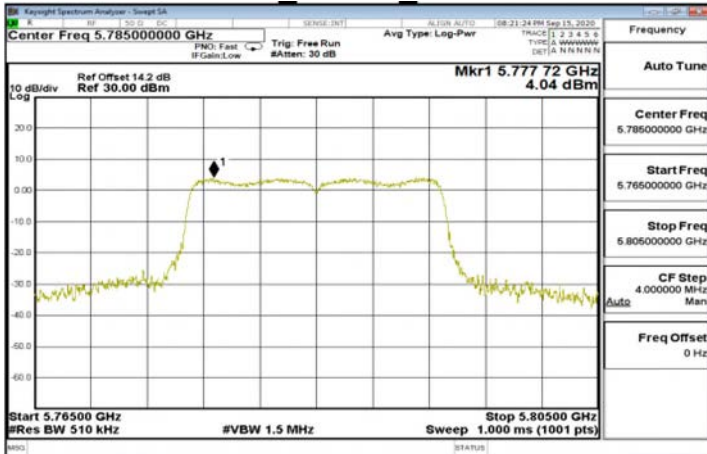
802.11n 20MHz 5745MHz



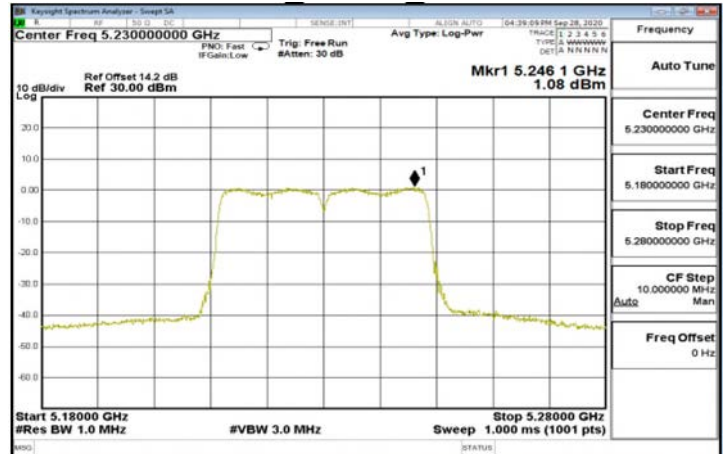
802.11n 40MHz 5190MHz



802.11n 20MHz 5785MHz



802.11n 40MHz 5230MHz

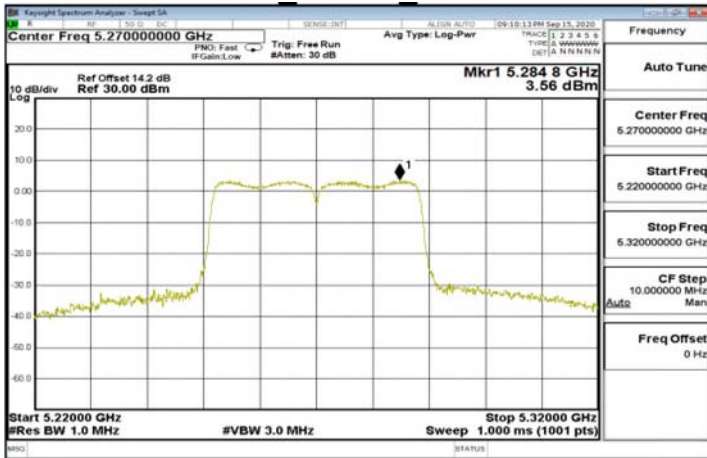


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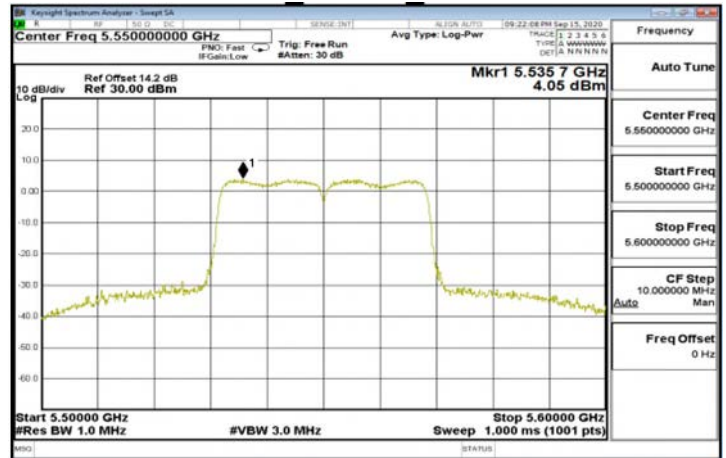
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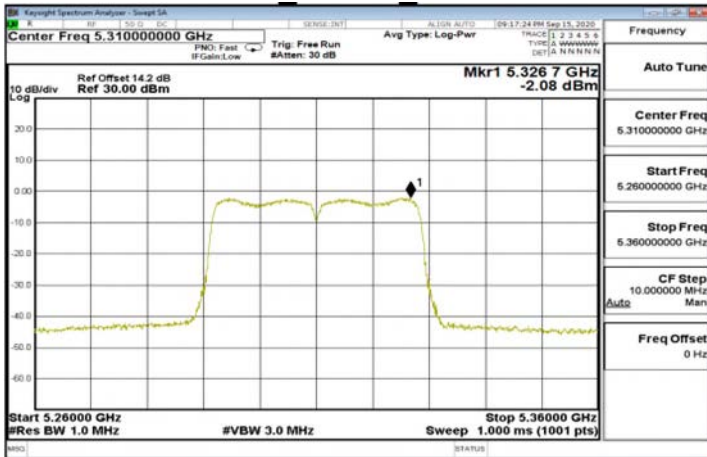
802.11n 40MHz 5270MHz



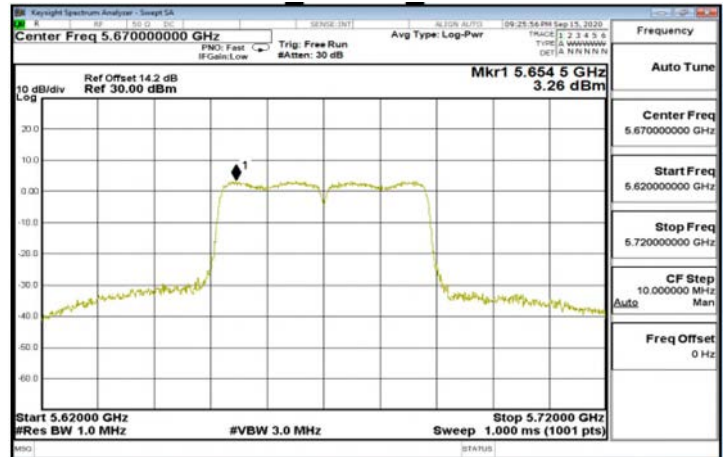
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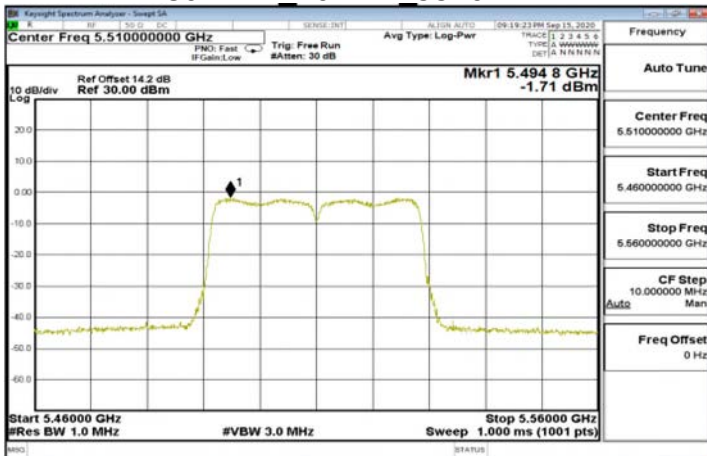
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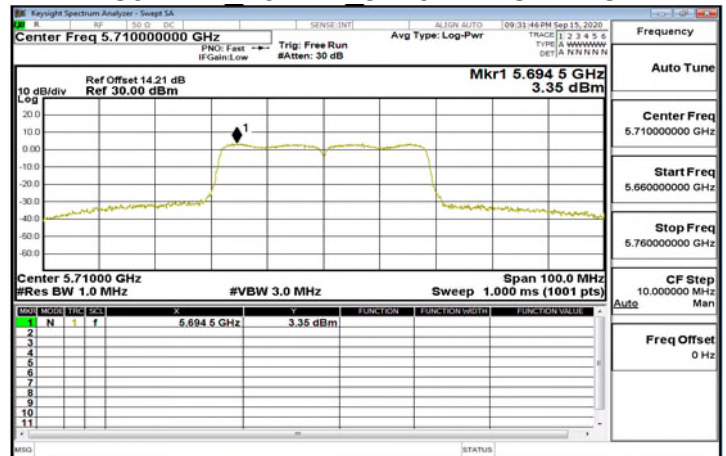
802.11n 40MHz 5670MHz



802.11n 40MHz 5510MHz



802.11n 40MHz 5710MHz UNII 2C

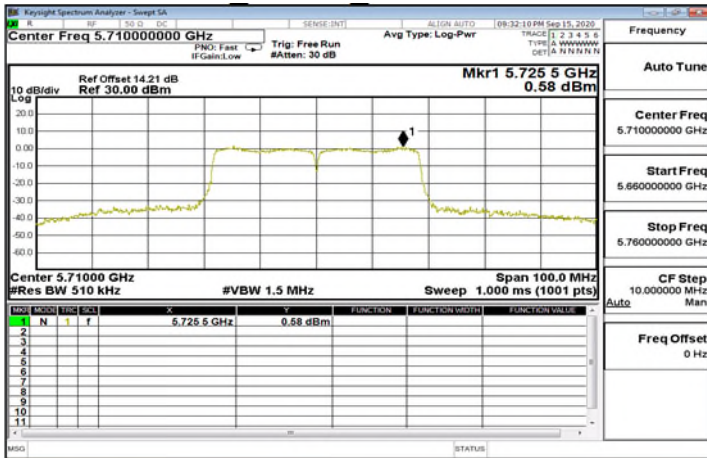


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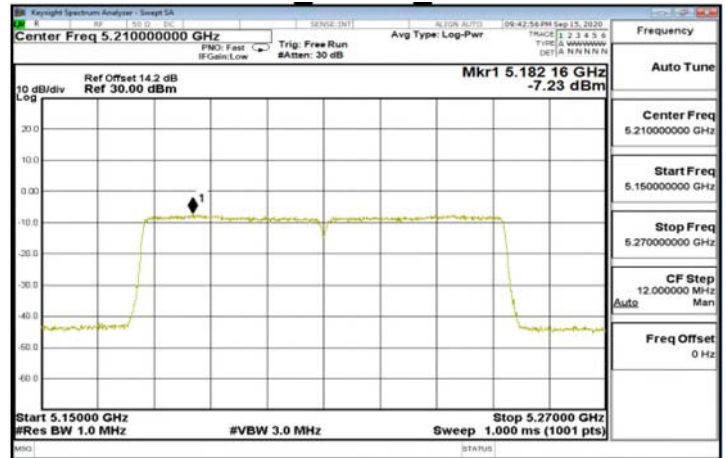
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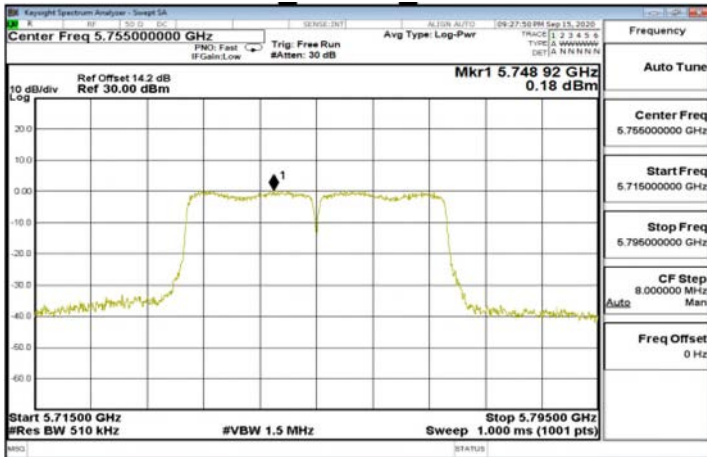
802.11n 40MHz 5710MHz UNII 3



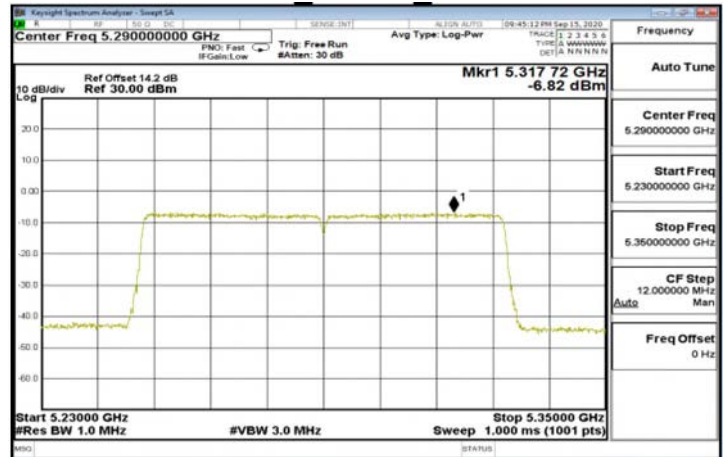
802.11ac 80MHz 5210MHz



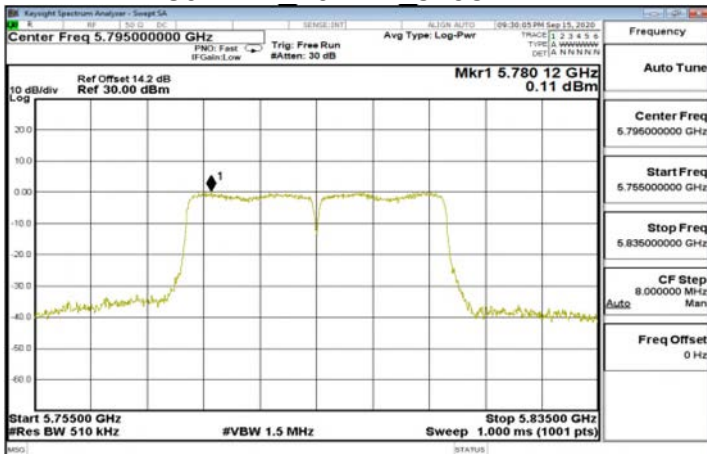
802.11n 40MHz 5755MHz



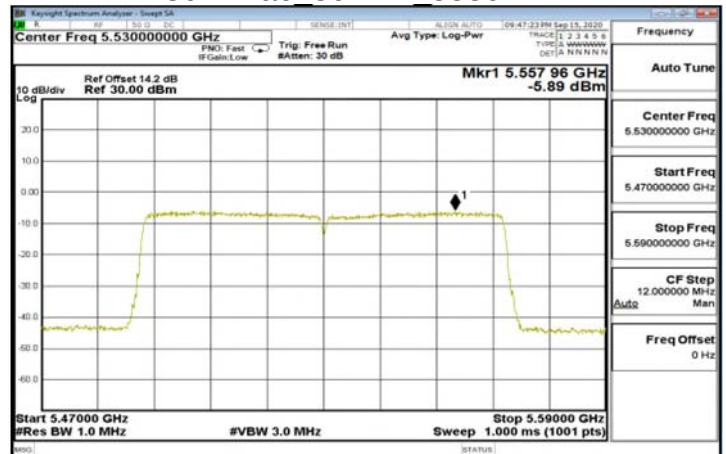
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802.11n 40MHz 5795MHz



802.11ac 80MHz 5530MHz

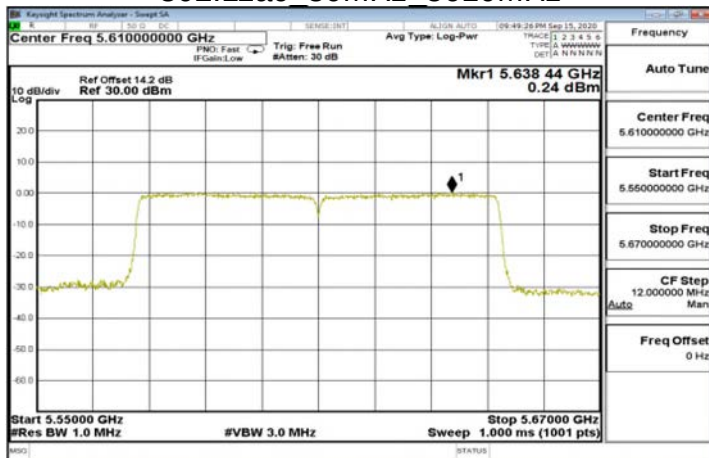


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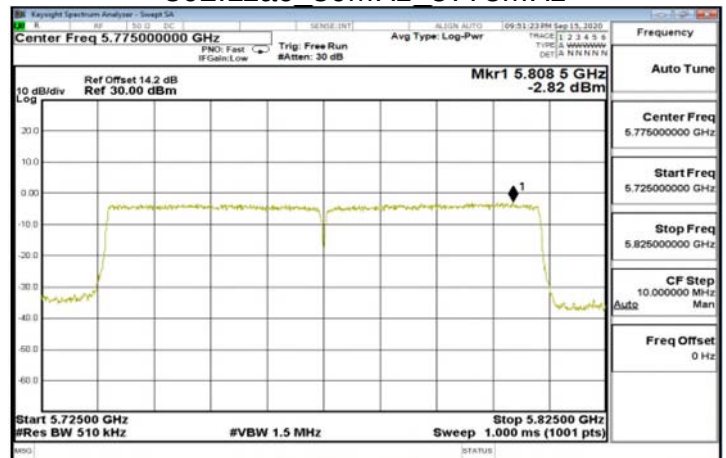
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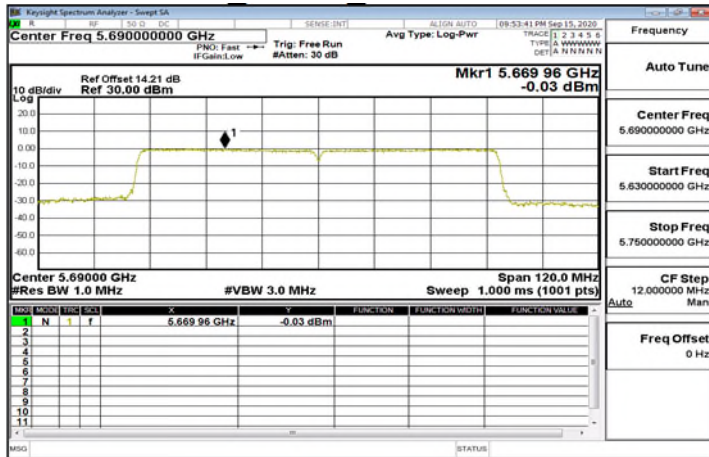
802.11ac 80MHz 5610MHz



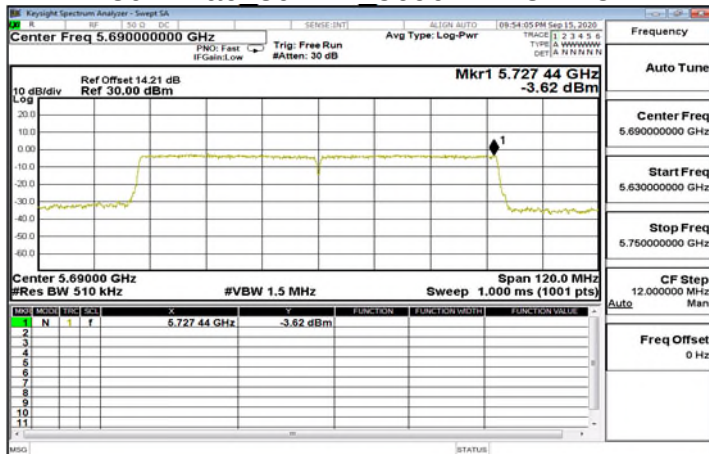
802.11ac 80MHz 5775MHz



802.11ac 80MHz 5690MHz UNII 2C



802.11ac 80MHz 5690MHz UNII 3



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

11.1.1 Band Edge

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

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

APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) RSS-247 §6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2) RSS-247 §6.2.2.2		
15.407(b)(3) RSS-247 §6.2.3.2		
15.407(b)(4)(i) RSS-247 §6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

$EIRP = (E \cdot d)^2 / 30$, 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					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	11/04/2019	11/03/2020
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2019	12/24/2020
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	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	11/20/2019	11/19/2020
Attenuator	Woken	WATT-218FS-10	RF25	11/20/2019	11/19/2020
High Pass Filter	R&S	F13 HPF 3GHz	RF64	11/20/2019	11/19/2020
Low Pass Filter	EWT	EWT-56-0019	RF46	11/20/2019	11/19/2020
Notch Filter	EWT	EWT-54-0038	RF55	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/20/2019	11/19/2020

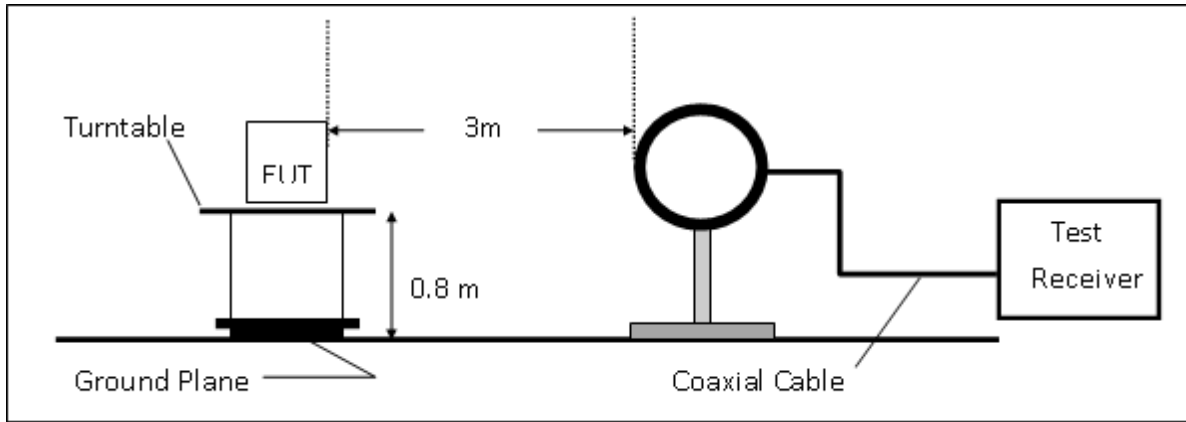
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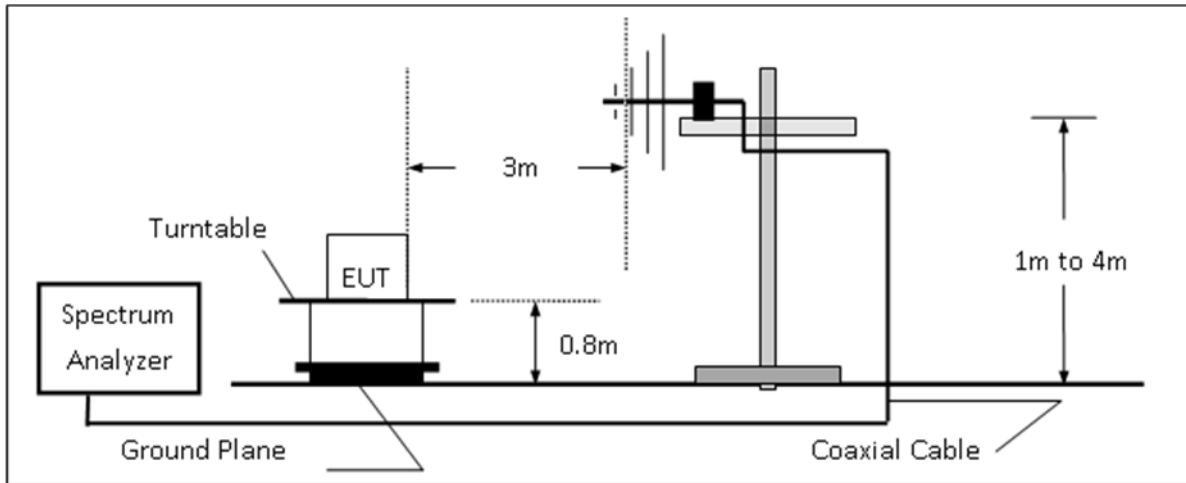
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11.3 Test SET-UP

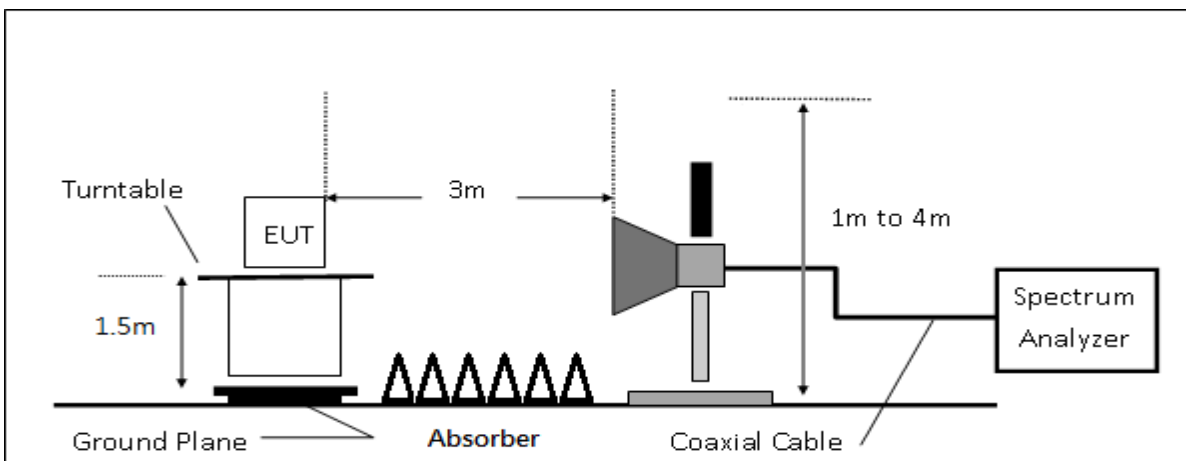
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)

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

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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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

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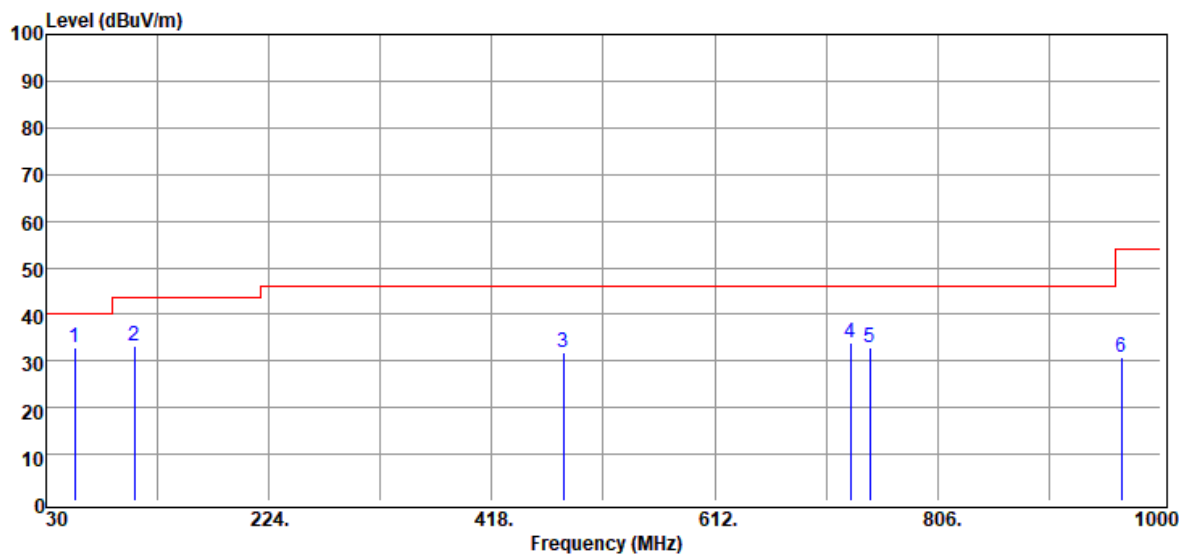
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11.7 Radiated Spurious Emission Measurement Result

11.7.1 Below 1GHz Worst-Case Data:

Report Number	:ER/2020/80122	Test Site	:966 Chamber D
Operation Mode	:802.11a / Band 1	Test Date	:2020-08-31
Test Frequency	:5220 MHz	Temp./Humi.	:24.6/67
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	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
55.22	Peak	49.94	-17.05	32.89	40.00	-7.11
106.63	Peak	53.40	-20.07	33.33	43.50	-10.17
480.08	Peak	42.96	-11.23	31.73	46.00	-14.27
730.34	Peak	41.17	-7.14	34.03	46.00	-11.97
746.83	Peak	39.83	-6.84	32.99	46.00	-13.01
966.05	Peak	34.88	-4.18	30.70	54.00	-23.30

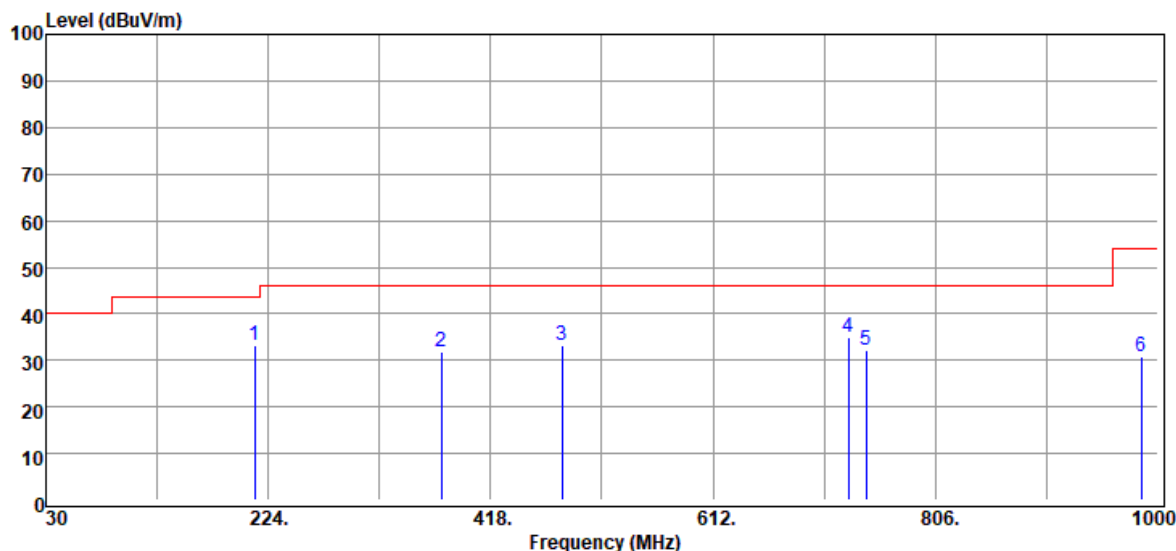
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-08-31
Temp./Humi. :24.6/67
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
212.36	Peak	52.03	-18.68	33.35	43.50	-10.15
375.32	Peak	45.26	-13.32	31.94	46.00	-14.06
480.08	Peak	44.53	-11.23	33.30	46.00	-12.70
730.34	Peak	42.15	-7.14	35.01	46.00	-10.99
745.86	Peak	39.18	-6.86	32.32	46.00	-13.68
985.45	Peak	34.86	-4.11	30.75	54.00	-23.25

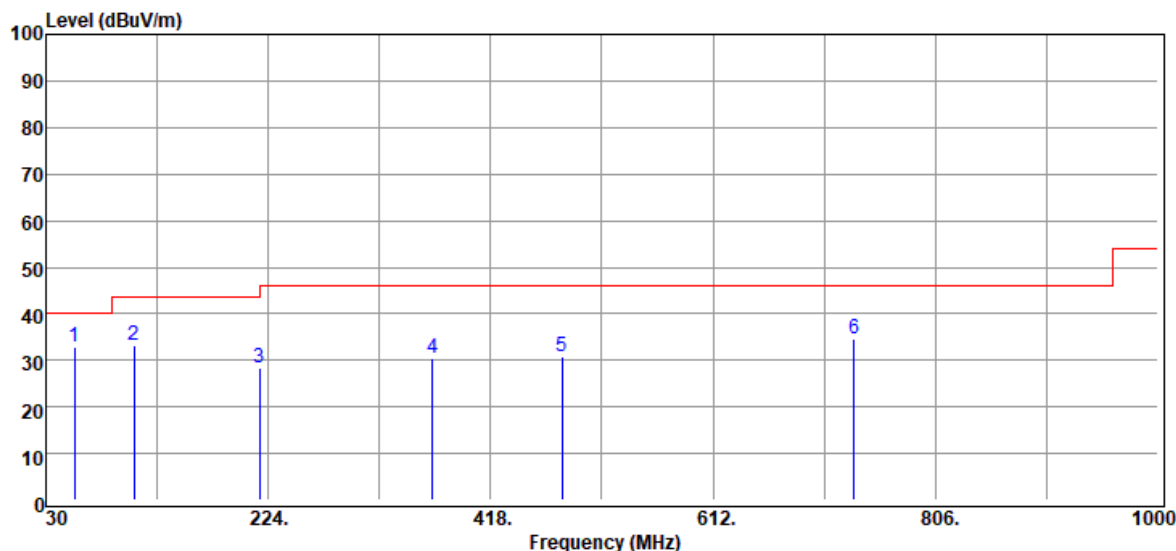
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-08-31
Temp./Humi. :24.6/67
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
55.22	Peak	49.90	-17.05	32.85	40.00	-7.15
106.63	Peak	53.19	-20.07	33.12	43.50	-10.38
216.24	Peak	46.86	-18.59	28.27	46.00	-17.73
367.56	Peak	44.08	-13.66	30.42	46.00	-15.58
480.08	Peak	42.11	-11.23	30.88	46.00	-15.12
735.19	Peak	41.63	-7.18	34.45	46.00	-11.55

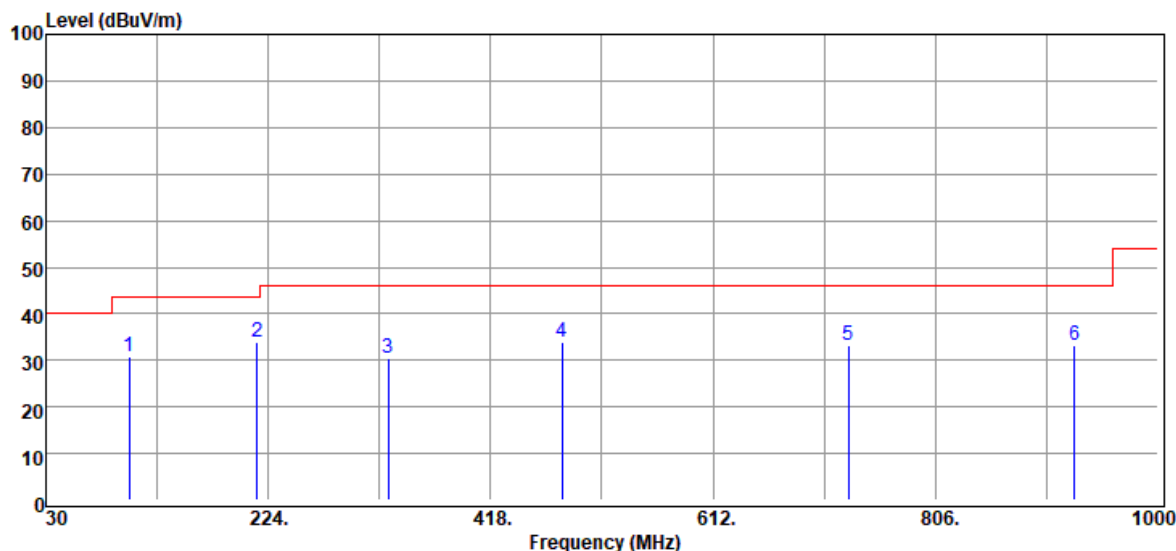
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-08-31
Temp./Humi. :24.6/67
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
102.75	Peak	51.75	-20.89	30.86	43.50	-12.64
214.30	Peak	52.50	-18.64	33.86	43.50	-9.64
328.76	Peak	44.92	-14.38	30.54	46.00	-15.46
480.08	Peak	45.06	-11.23	33.83	46.00	-12.17
730.34	Peak	40.53	-7.14	33.39	46.00	-12.61
927.25	Peak	38.10	-4.79	33.31	46.00	-12.69

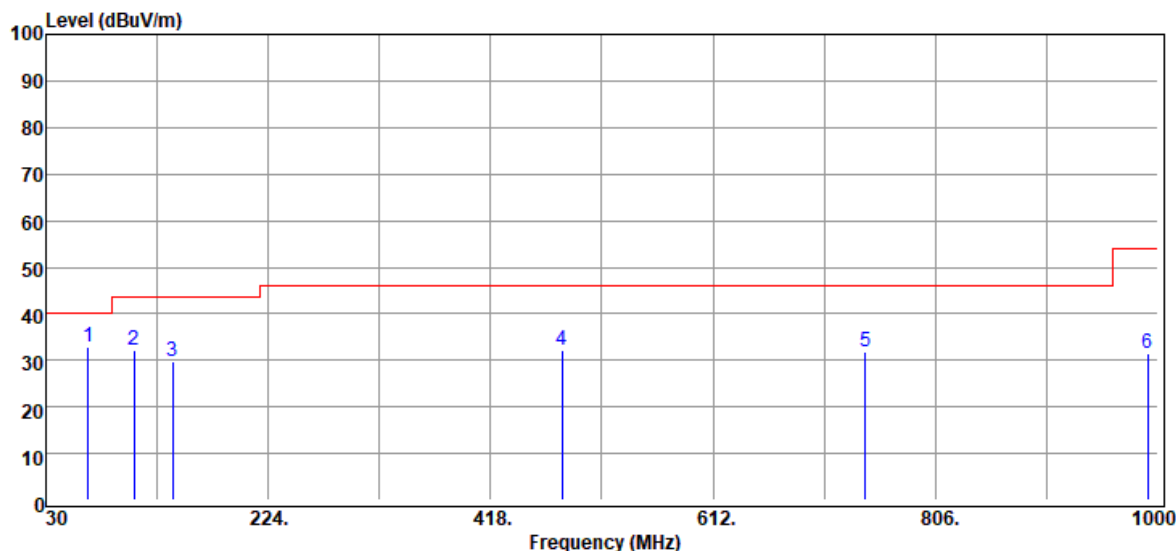
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-08-31
Temp./Humi. :24.6/67
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
66.86	Peak	51.29	-18.59	32.70	40.00	-7.30
106.63	Peak	52.33	-20.07	32.26	43.50	-11.24
140.58	Peak	46.68	-16.88	29.80	43.50	-13.70
480.08	Peak	43.35	-11.23	32.12	46.00	-13.88
744.89	Peak	38.72	-6.90	31.82	46.00	-14.18
991.27	Peak	35.41	-4.07	31.34	54.00	-22.66

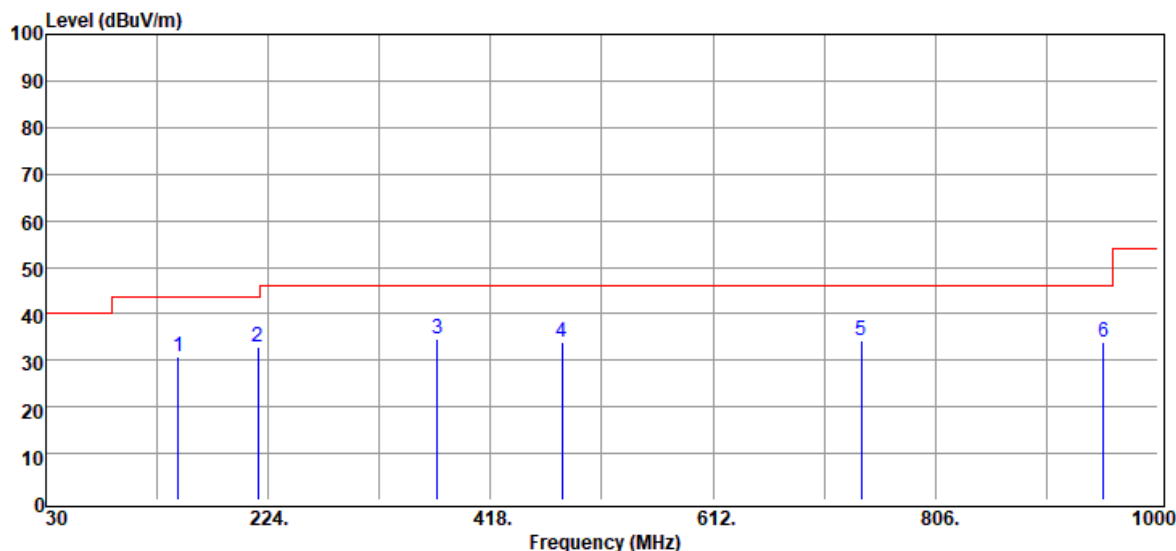
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-08-31
Temp./Humi. :24.6/67
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
145.43	Peak	47.53	-16.63	30.90	43.50	-12.60
215.27	Peak	51.64	-18.62	33.02	43.50	-10.48
371.44	Peak	48.12	-13.53	34.59	46.00	-11.41
480.08	Peak	45.14	-11.23	33.91	46.00	-12.09
741.01	Peak	41.12	-7.01	34.11	46.00	-11.89
952.47	Peak	38.53	-4.48	34.05	46.00	-11.95

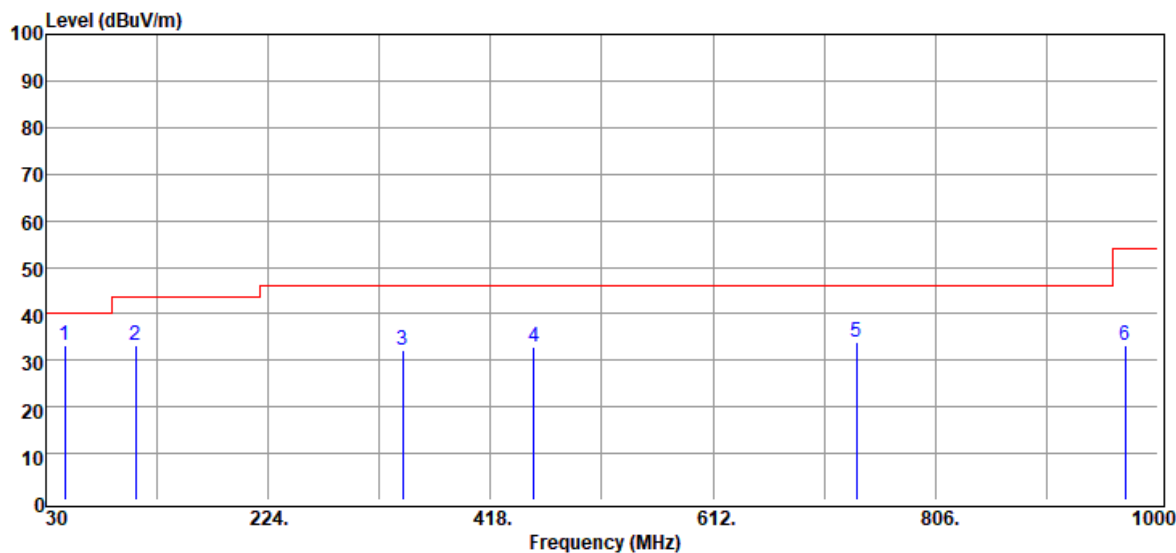
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-23
Temp./Humi. :22.8/62
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
46.49	Peak	50.07	-16.83	33.24	40.00	-6.76
108.57	Peak	53.01	-19.81	33.20	43.50	-10.30
341.37	Peak	45.99	-13.95	32.04	46.00	-13.96
455.83	Peak	44.14	-11.33	32.81	46.00	-13.19
737.13	Peak	40.97	-7.13	33.84	46.00	-12.16
971.87	Peak	37.49	-4.10	33.39	54.00	-20.61

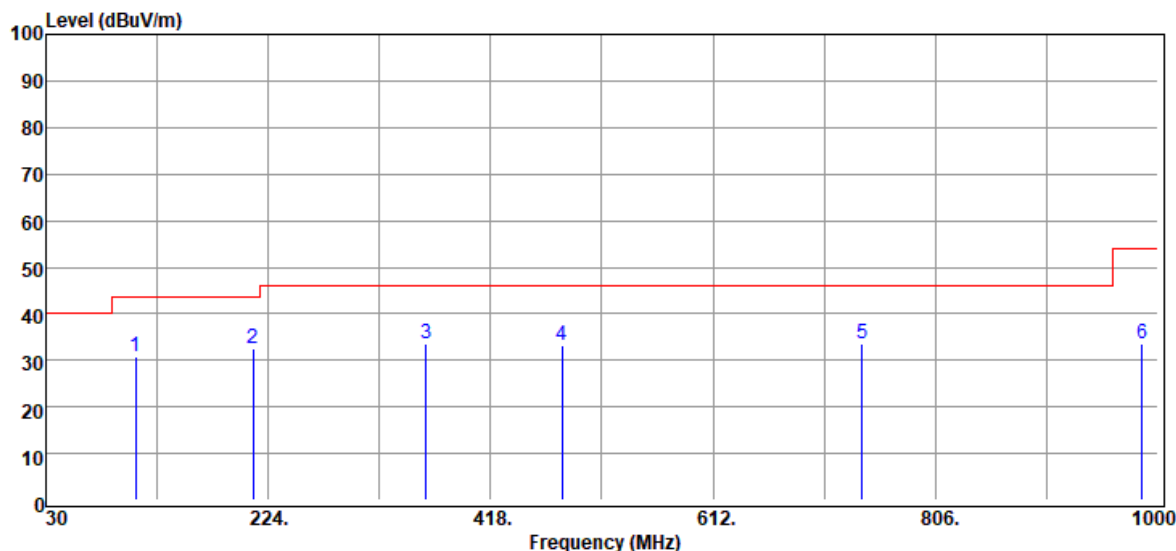
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-23
Temp./Humi. :22.8/62
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
108.57	Peak	50.67	-19.81	30.86	43.50	-12.64
210.42	Peak	51.22	-18.72	32.50	43.50	-11.00
361.74	Peak	47.34	-13.85	33.49	46.00	-12.51
480.08	Peak	44.59	-11.23	33.36	46.00	-12.64
741.98	Peak	40.58	-6.99	33.59	46.00	-12.41
986.42	Peak	37.84	-4.10	33.74	54.00	-20.26

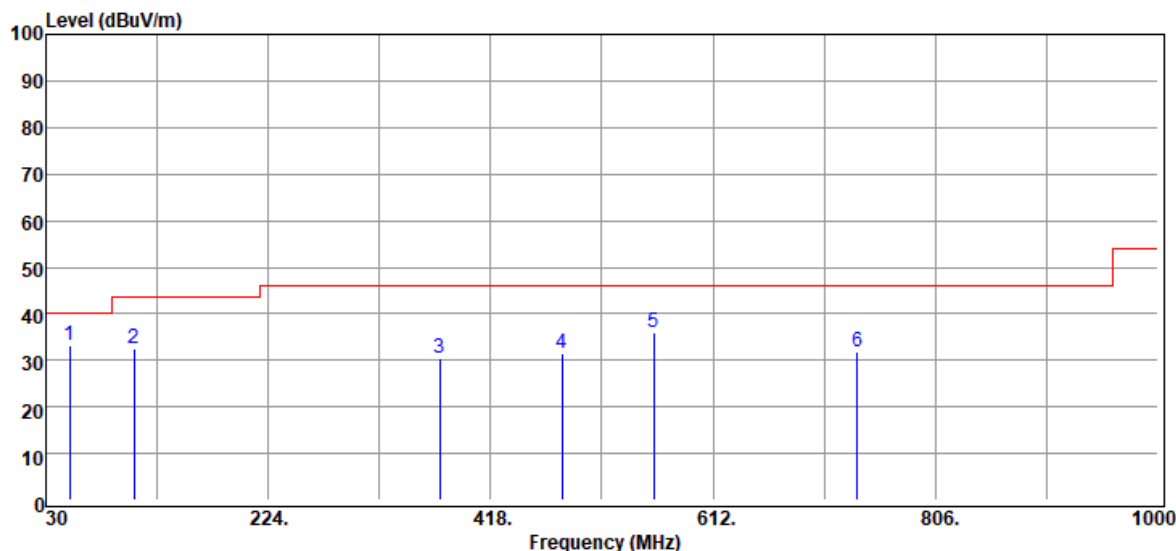
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 1
Test Frequency :5210 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-08-31
Temp./Humi. :24.6/67
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
50.37	Peak	49.92	-16.87	33.05	40.00	-6.95
106.63	Peak	52.43	-20.07	32.36	43.50	-11.14
373.38	Peak	43.85	-13.42	30.43	46.00	-15.57
480.08	Peak	42.81	-11.23	31.58	46.00	-14.42
560.59	Peak	46.10	-10.12	35.98	46.00	-10.02
738.10	Peak	38.83	-7.11	31.72	46.00	-14.28

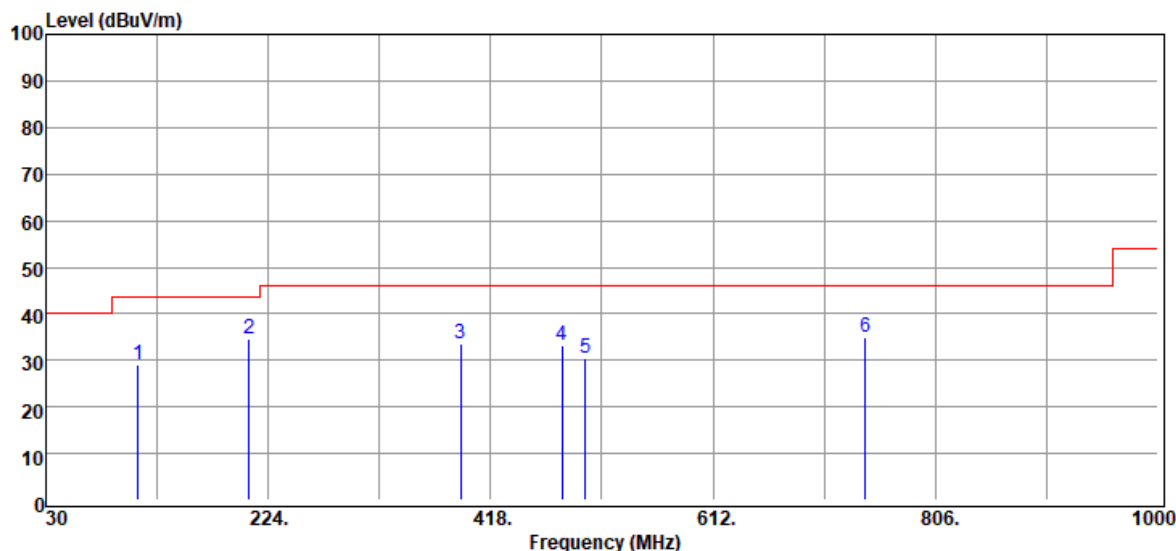
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 1
Test Frequency :5210 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-08-31
Temp./Humi. :24.6/67
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
110.51	Peak	48.77	-19.59	29.18	43.50	-14.32
207.51	Peak	53.19	-18.66	34.53	43.50	-8.97
391.81	Peak	46.43	-12.90	33.53	46.00	-12.47
480.08	Peak	44.41	-11.23	33.18	46.00	-12.82
500.45	Peak	41.52	-11.11	30.41	46.00	-15.59
744.89	Peak	42.00	-6.90	35.10	46.00	-10.90

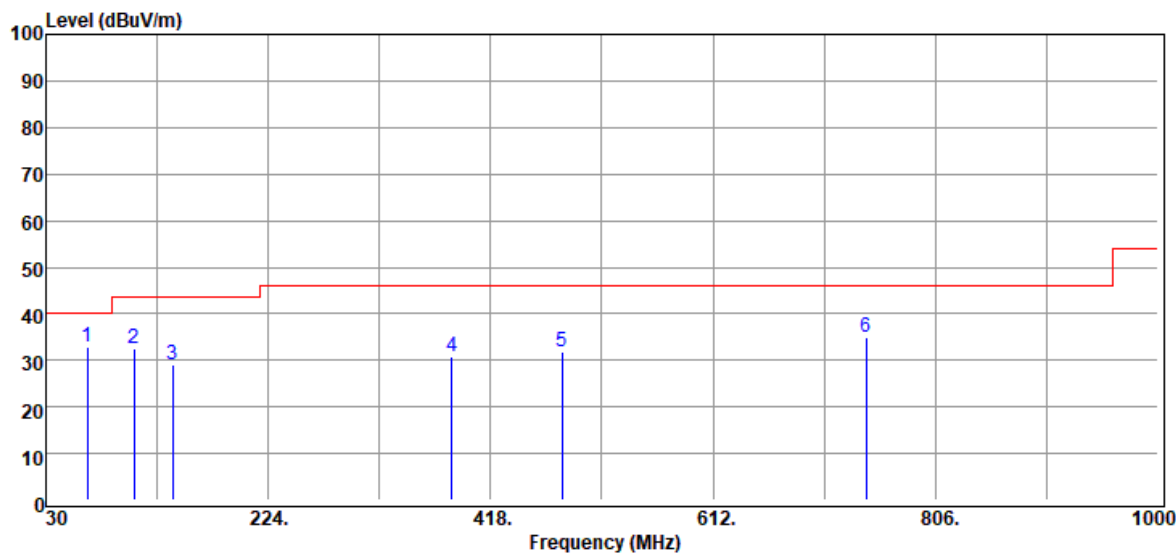
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-08-31
Temp./Humi. :24.6/67
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
65.89	Peak	51.42	-18.50	32.92	40.00	-7.08
106.63	Peak	52.69	-20.07	32.62	43.50	-10.88
140.58	Peak	46.01	-16.88	29.13	43.50	-14.37
384.05	Peak	43.98	-13.06	30.92	46.00	-15.08
480.08	Peak	42.90	-11.23	31.67	46.00	-14.33
745.86	Peak	41.83	-6.86	34.97	46.00	-11.03

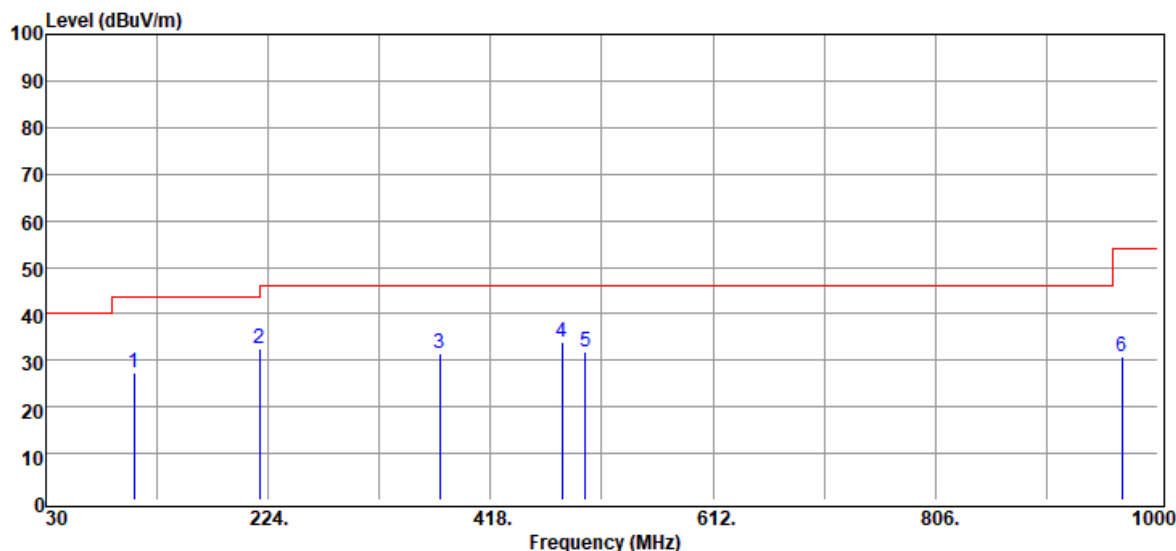
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-08-31
Temp./Humi. :24.6/67
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
106.63	Peak	47.43	-20.07	27.36	43.50	-16.14
216.24	Peak	51.05	-18.59	32.46	46.00	-13.54
373.38	Peak	44.94	-13.42	31.52	46.00	-14.48
480.08	Peak	45.19	-11.23	33.96	46.00	-12.04
500.45	Peak	42.83	-11.11	31.72	46.00	-14.28
968.96	Peak	34.94	-4.10	30.84	54.00	-23.16

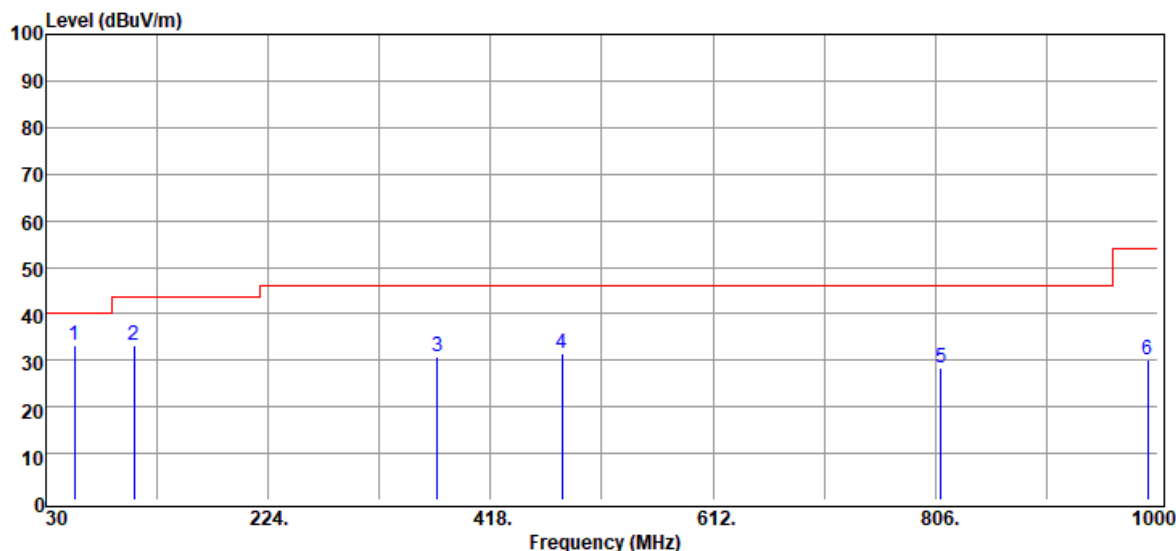
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 3
Test Frequency :5610 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-08-31
Temp./Humi. :24.6/67
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
55.22	Peak	50.20	-17.05	33.15	40.00	-6.85
106.63	Peak	53.44	-20.07	33.37	43.50	-10.13
371.44	Peak	44.47	-13.53	30.94	46.00	-15.06
480.08	Peak	42.63	-11.23	31.40	46.00	-14.60
810.85	Peak	34.42	-6.12	28.30	46.00	-17.70
991.27	Peak	34.17	-4.07	30.10	54.00	-23.90

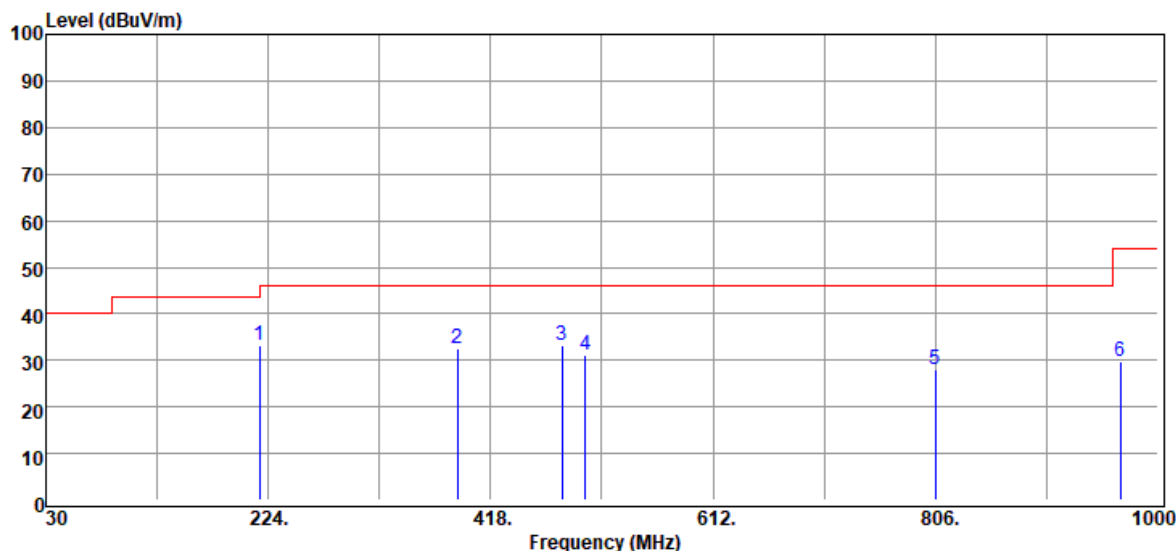
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 3
Test Frequency :5610 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-08-31
Temp./Humi. :24.6/67
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
216.24	Peak	51.75	-18.59	33.16	46.00	-12.84
388.90	Peak	45.50	-12.94	32.56	46.00	-13.44
480.08	Peak	44.55	-11.23	33.32	46.00	-12.68
500.45	Peak	42.13	-11.11	31.02	46.00	-14.98
806.00	Peak	34.32	-6.16	28.16	46.00	-17.84
967.02	Peak	33.84	-4.15	29.69	54.00	-24.31

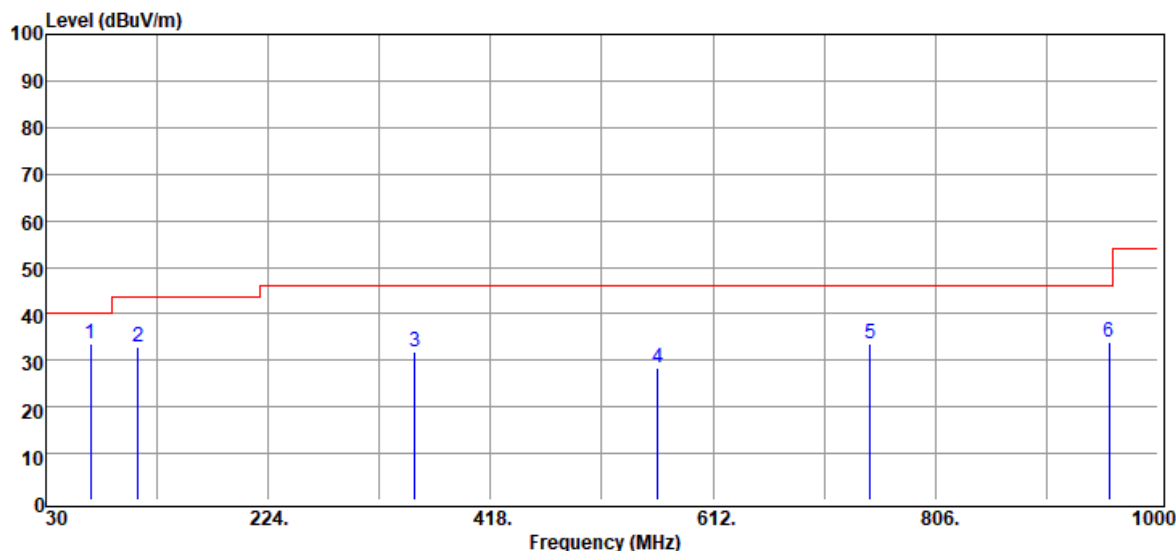
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 4
Test Frequency :5775 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-23
Temp./Humi. :22.8/62
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
68.80	Peak	52.59	-18.89	33.70	40.00	-6.30
110.51	Peak	52.62	-19.59	33.03	43.50	-10.47
352.04	Peak	45.73	-14.05	31.68	46.00	-14.32
563.50	Peak	38.38	-10.01	28.37	46.00	-17.63
748.77	Peak	40.27	-6.78	33.49	46.00	-12.51
957.32	Peak	38.17	-4.38	33.79	46.00	-12.21

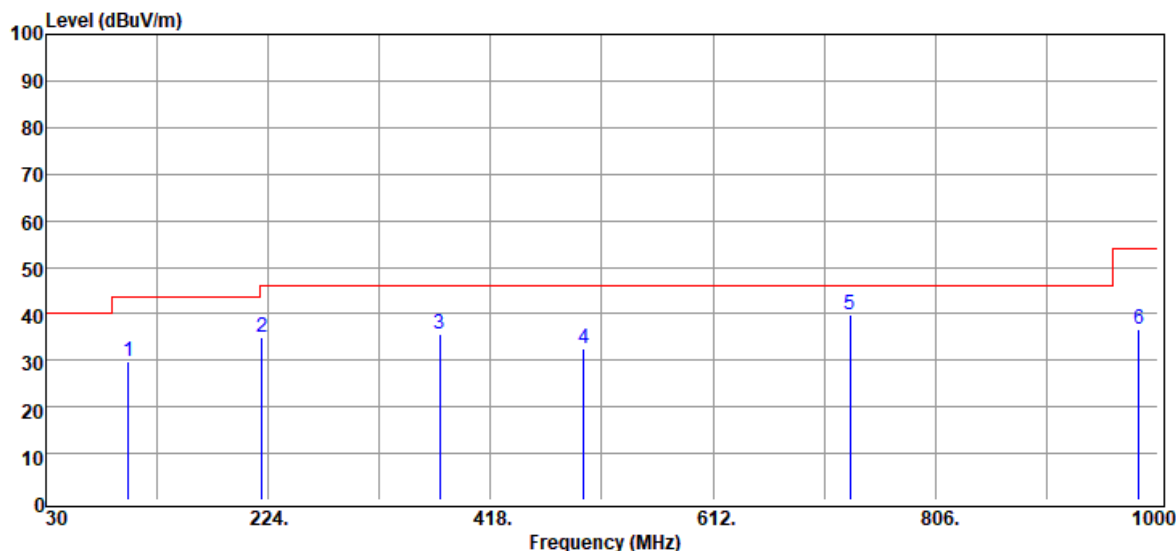
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 4
Test Frequency :5775 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-23
Temp./Humi. :22.8/62
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
101.78	Peak	50.64	-21.02	29.62	43.50	-13.88
218.18	Peak	53.40	-18.52	34.88	46.00	-11.12
373.38	Peak	49.11	-13.42	35.69	46.00	-10.31
499.48	Peak	43.57	-11.11	32.46	46.00	-13.54
731.31	Peak	46.92	-7.15	39.77	46.00	-6.23
983.51	Peak	40.73	-4.09	36.64	54.00	-17.36

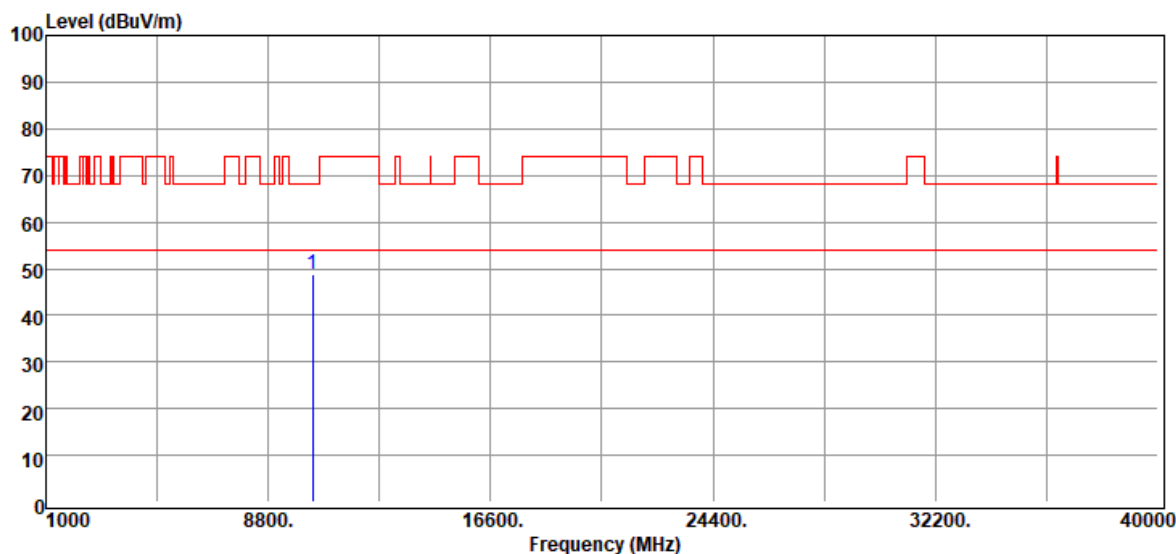
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11.7.2 Above 1GHz Worst-Case Data:

Report Number	:ER/2020/80122	Test Site	:966 Chamber D
Operation Mode	:802.11a / Band 1	Test Date	:2020-09-23
Test Frequency	:5180 MHz	Temp./Humi.	:23.0/63
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 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
10360.00	Peak	38.52	10.22	48.74	68.20	-19.46

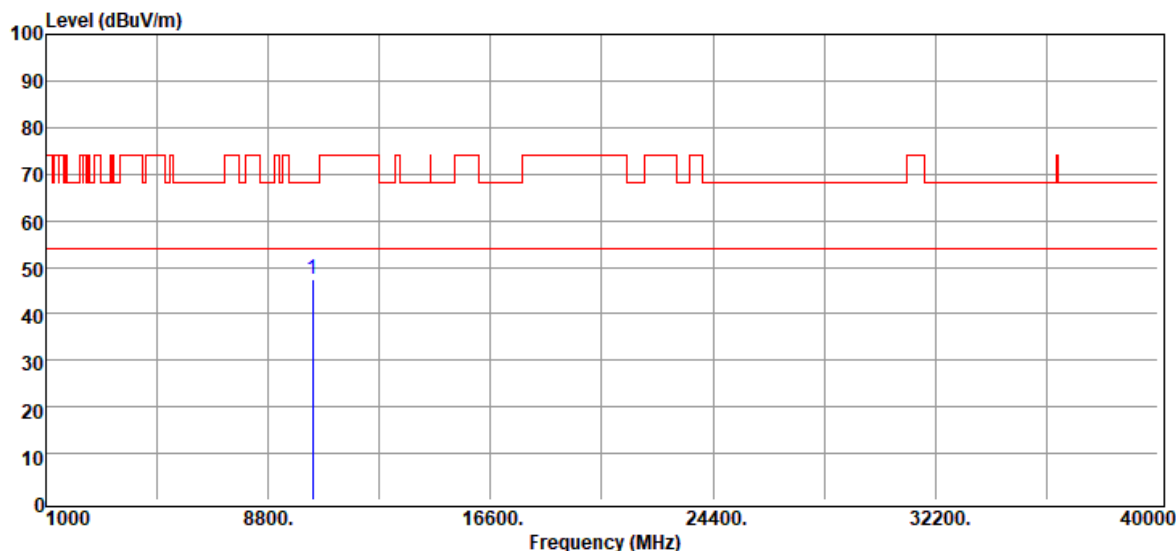
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 1
Test Frequency :5180 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-23
Temp./Humi. :23.0/63
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
10360.00	Peak	37.32	10.22	47.54	68.20	-20.66

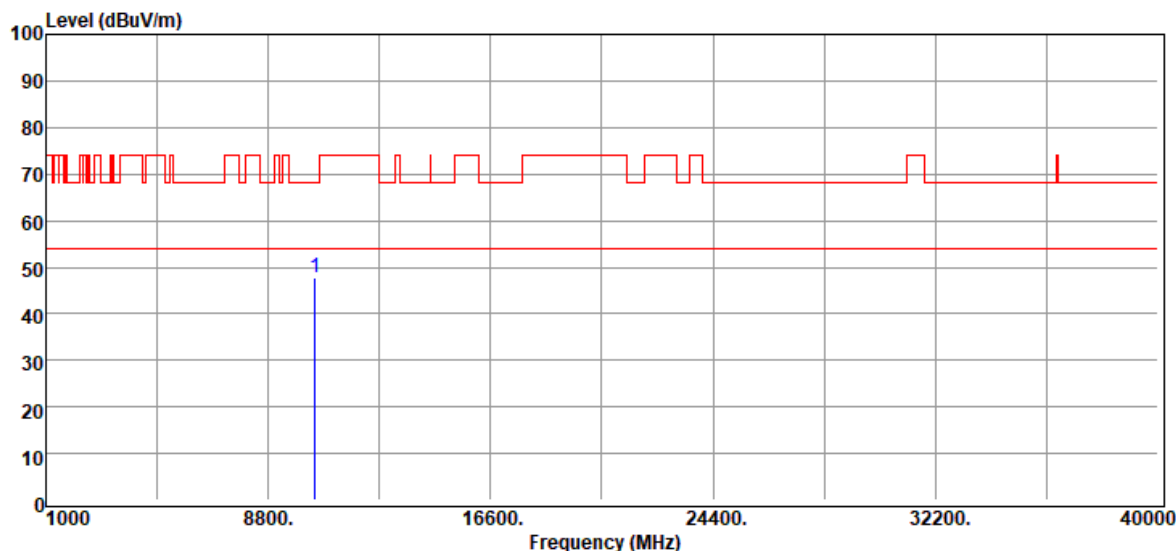
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.6/63
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
10440.00	Peak	36.75	10.94	47.69	68.20	-20.51

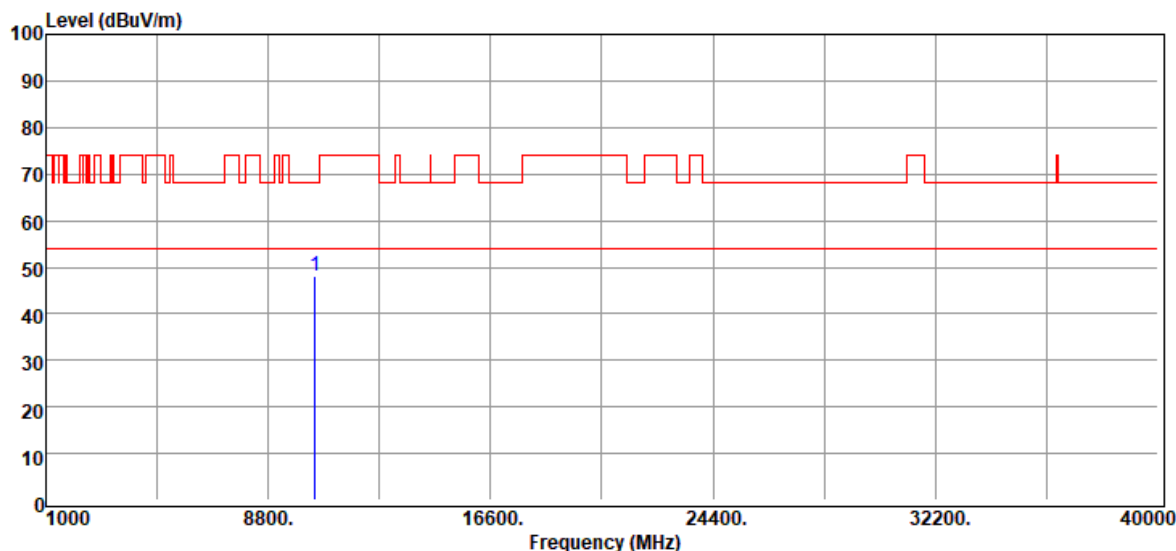
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.6/63
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
10440.00	Peak	37.13	10.94	48.07	68.20	-20.13

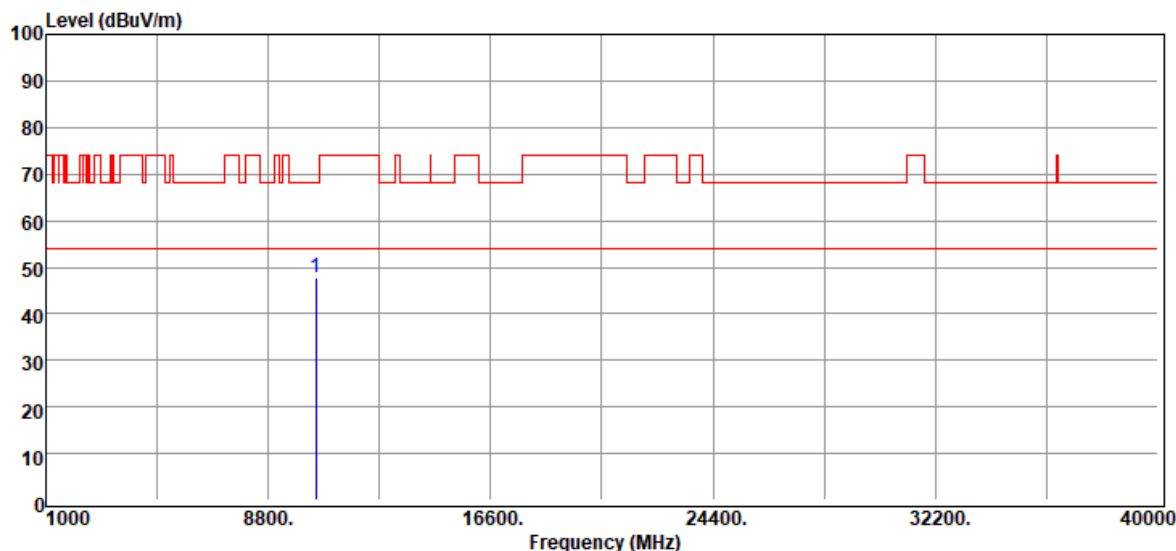
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 1
Test Frequency :5240 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.6/63
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
10480.00	Peak	36.68	11.16	47.84	68.20	-20.36

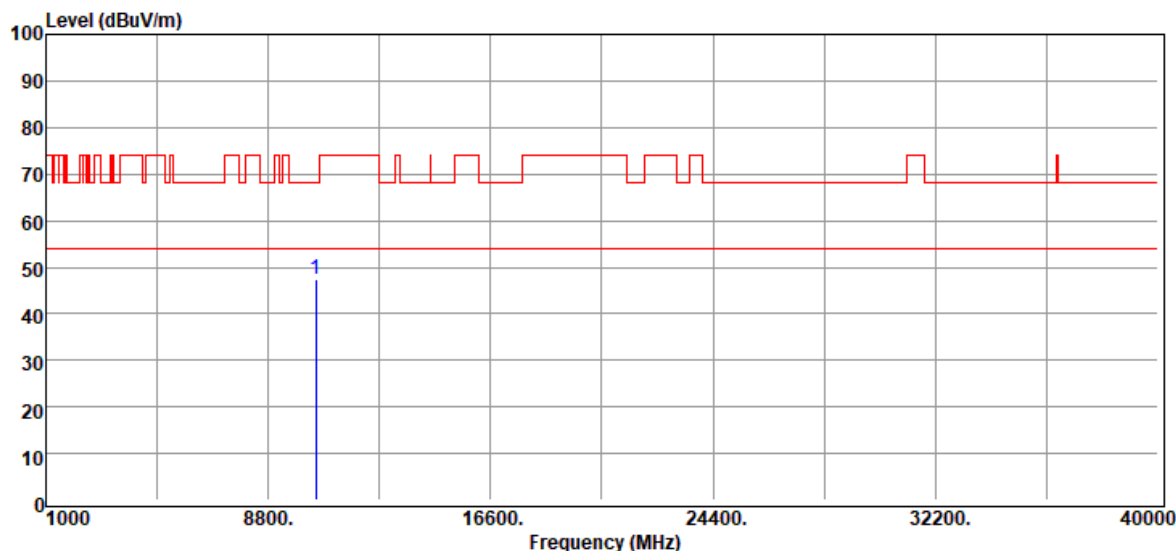
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 1
Test Frequency :5240 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.6/63
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
10480.00	Peak	36.26	11.16	47.42	68.20	-20.78

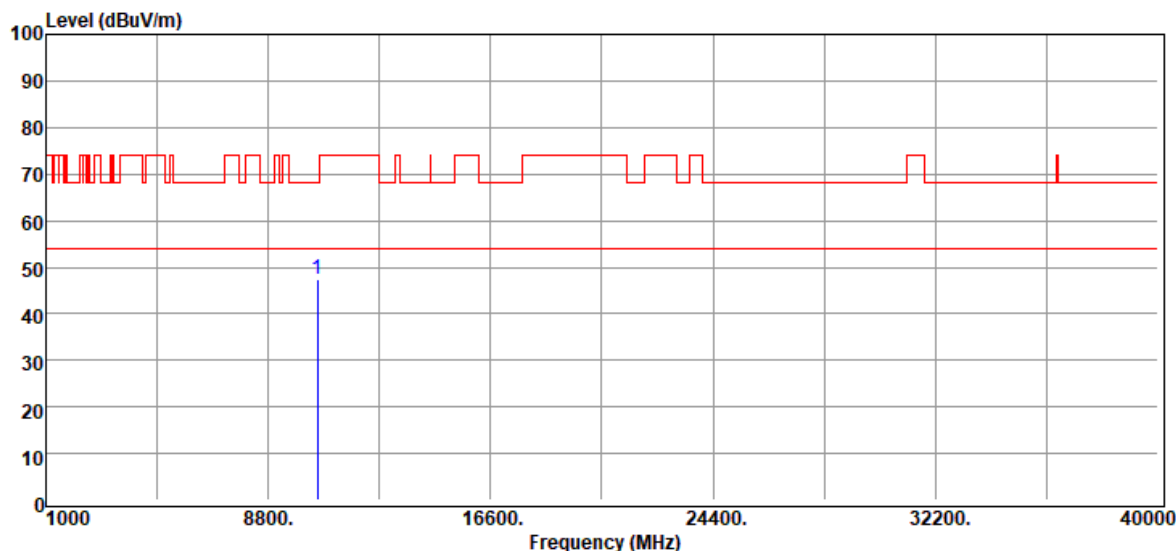
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 2
Test Frequency :5260 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.6/63
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
10520.00	Peak	36.17	11.20	47.37	68.20	-20.83

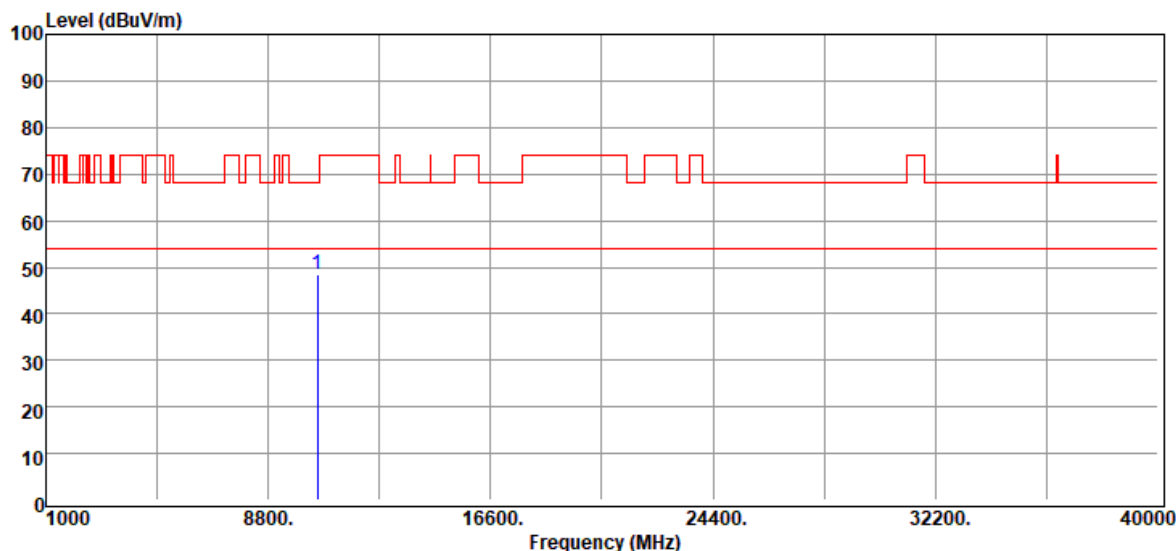
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 2
Test Frequency :5260 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.6/63
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
10520.00	Peak	37.22	11.20	48.42	68.20	-19.78

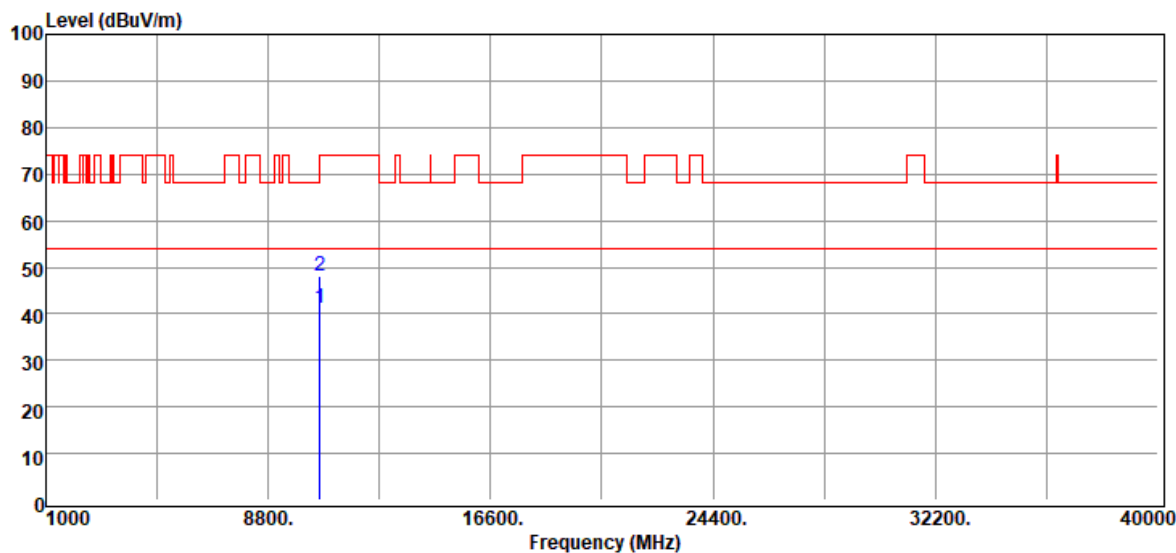
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.6/63
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
10600.00	Average	30.31	11.00	41.31	54.00	-12.69
10600.00	Peak	37.03	11.00	48.03	74.00	-25.97

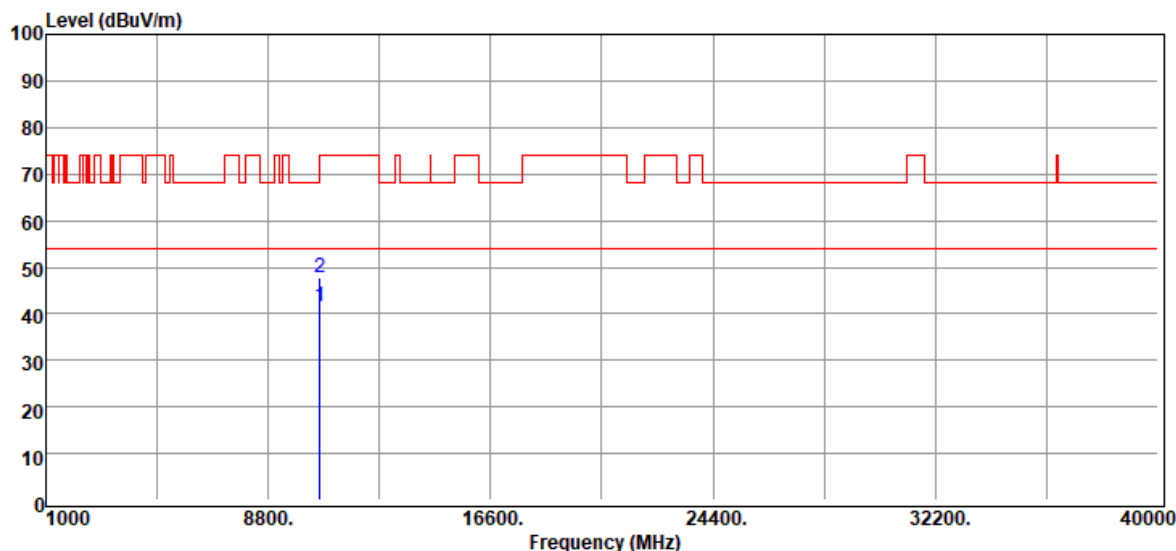
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.6/63
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
10600.00	Average	30.52	11.00	41.52	54.00	-12.48
10600.00	Peak	36.86	11.00	47.86	74.00	-26.14

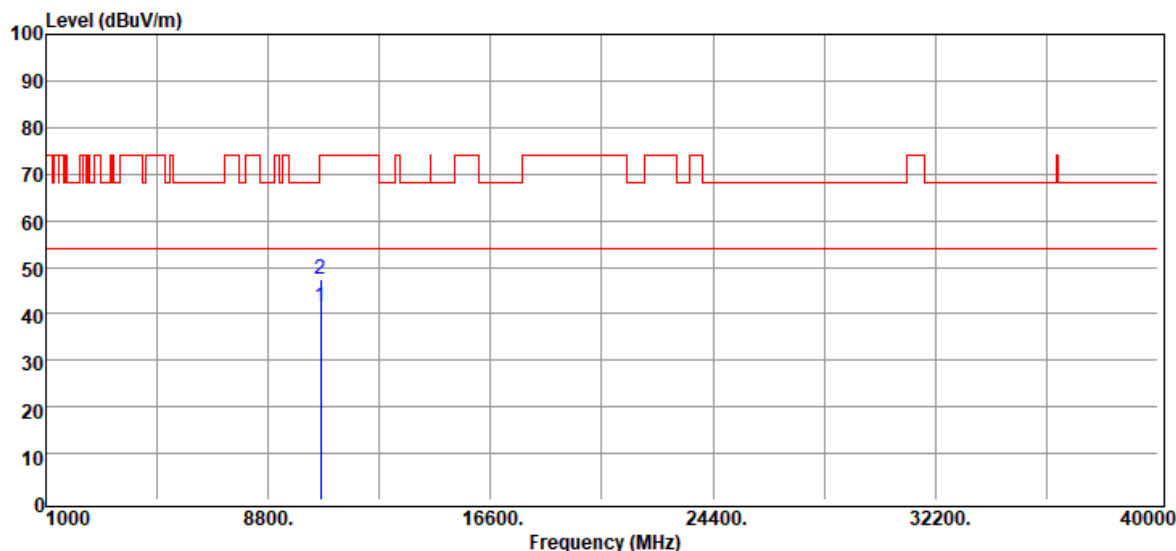
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-23
Temp./Humi. :23.0/63
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
10640.00	Average	30.35	11.10	41.45	54.00	-12.55
10640.00	Peak	36.45	11.10	47.55	74.00	-26.45

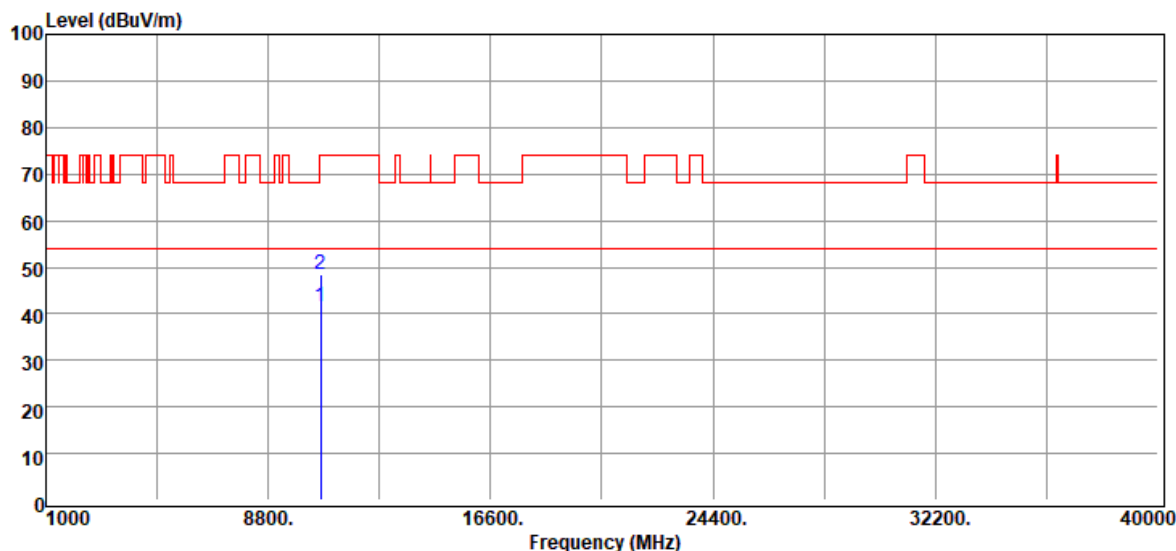
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-23
Temp./Humi. :23.0/63
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
10640.00	Average	30.48	11.10	41.58	54.00	-12.42
10640.00	Peak	37.21	11.10	48.31	74.00	-25.69

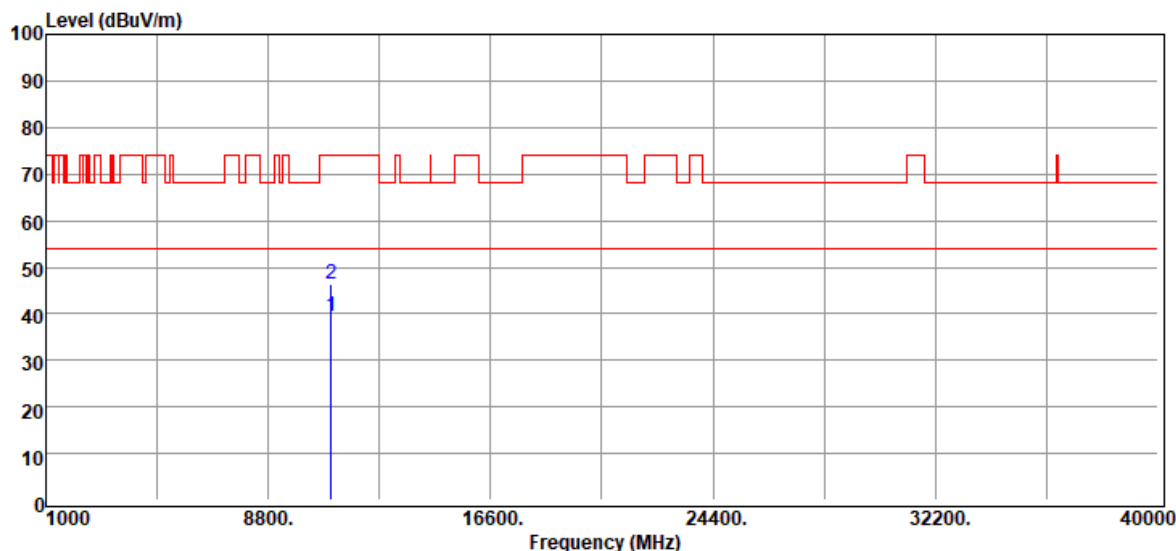
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.6/63
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
11000.00	Average	29.63	9.78	39.41	54.00	-14.59
11000.00	Peak	36.52	9.78	46.30	74.00	-27.70

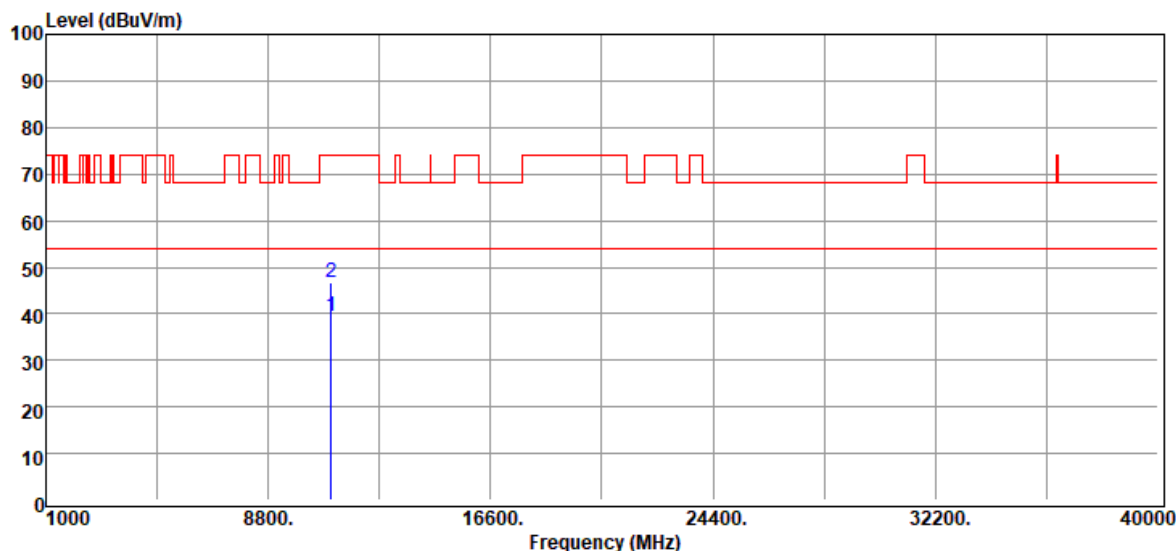
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Report Number :ER/2020/80122
 Operation Mode :802.11a / Band 3
 Test Frequency :5500 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-02
 Temp./Humi. :23.6/63
 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
11000.00	Average	29.83	9.78	39.61	54.00	-14.39
11000.00	Peak	36.94	9.78	46.72	74.00	-27.28

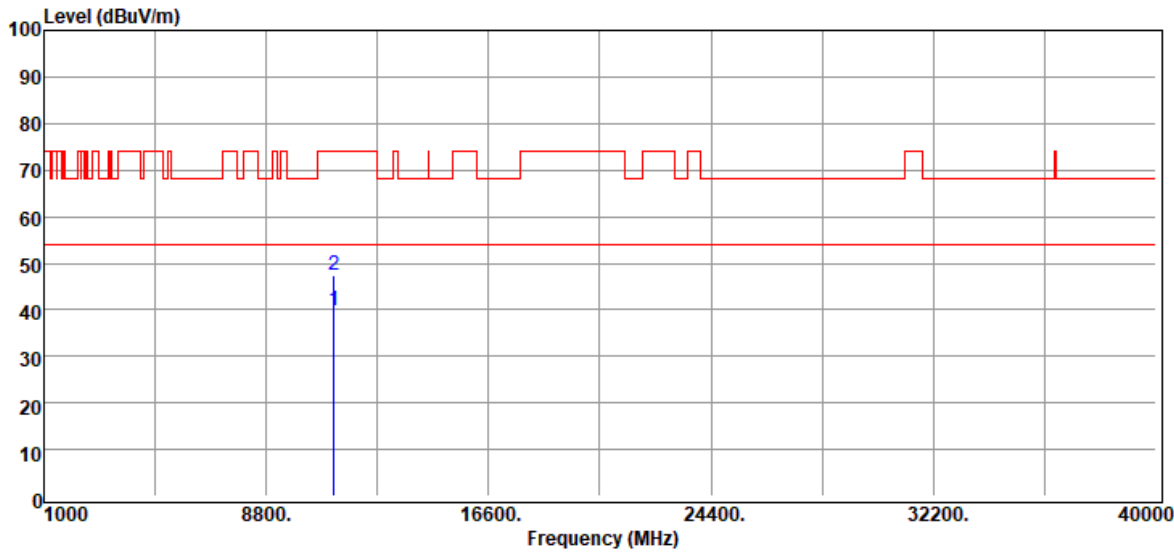
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.6/63
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
11160.00	Average	29.54	10.29	39.83	54.00	-14.17
11160.00	Peak	37.23	10.29	47.52	74.00	-26.48

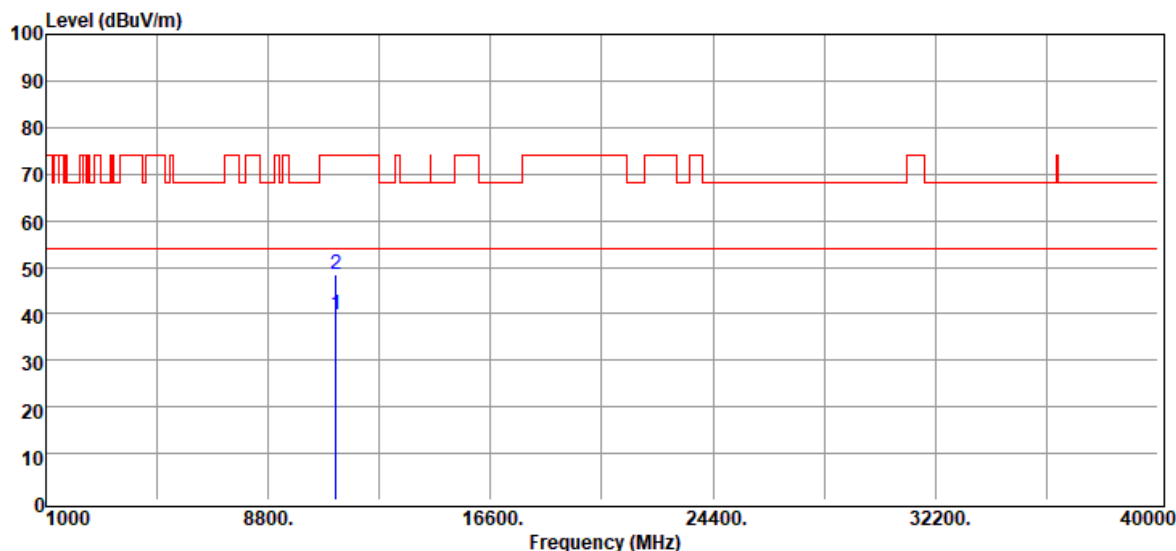
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Report Number :ER/2020/80122
 Operation Mode :802.11a / Band 3
 Test Frequency :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-02
 Temp./Humi. :23.6/63
 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
11160.00	Average	29.58	10.29	39.87	54.00	-14.13
11160.00	Peak	38.08	10.29	48.37	74.00	-25.63

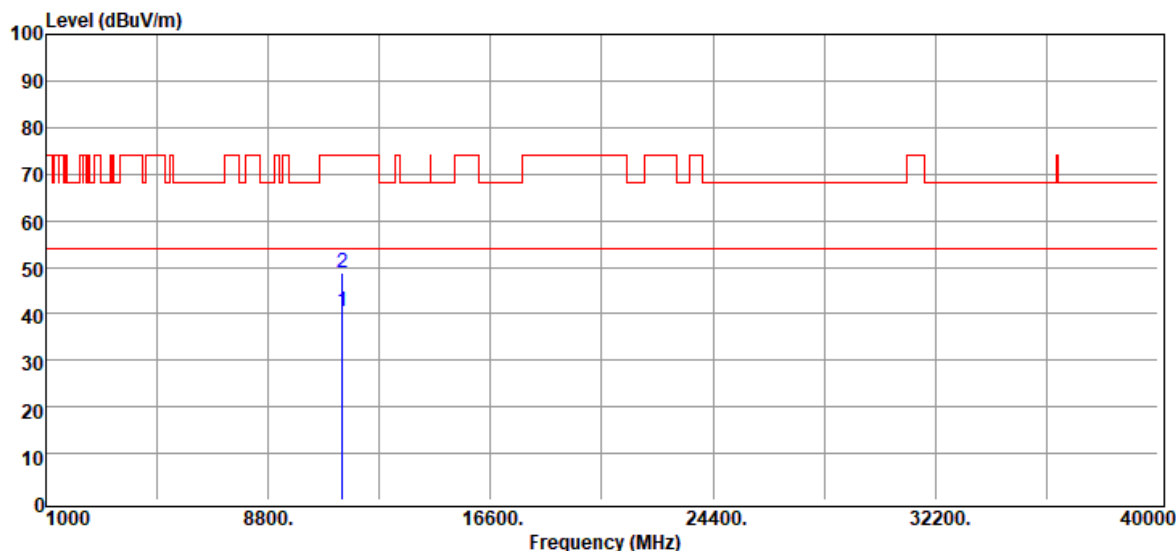
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.6/63
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
11400.00	Average	29.52	10.89	40.41	54.00	-13.59
11400.00	Peak	37.75	10.89	48.64	74.00	-25.36

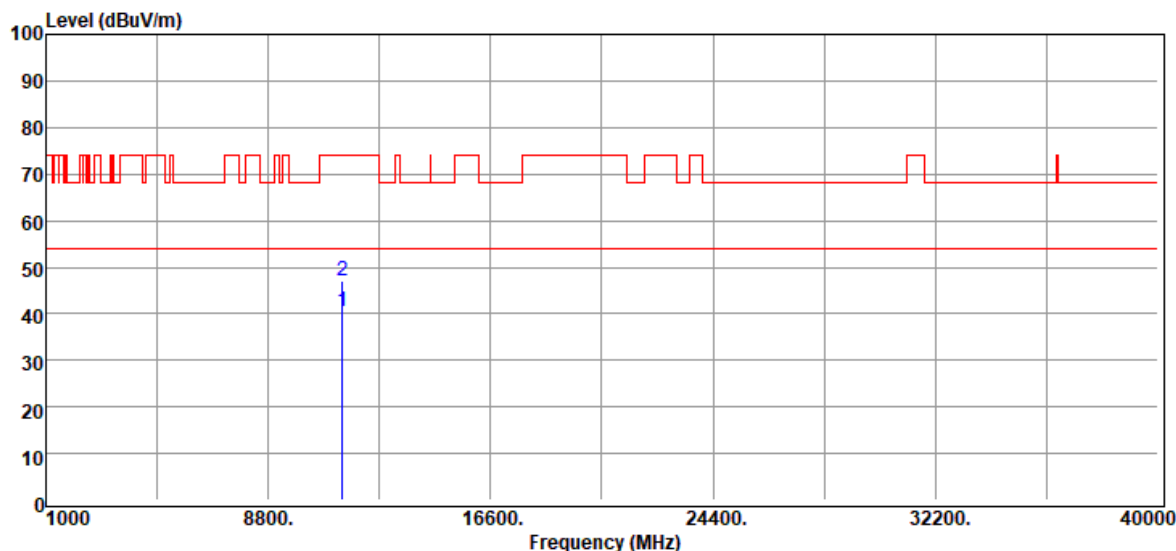
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.6/63
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
11400.00	Average	29.44	10.89	40.33	54.00	-13.67
11400.00	Peak	36.30	10.89	47.19	74.00	-26.81

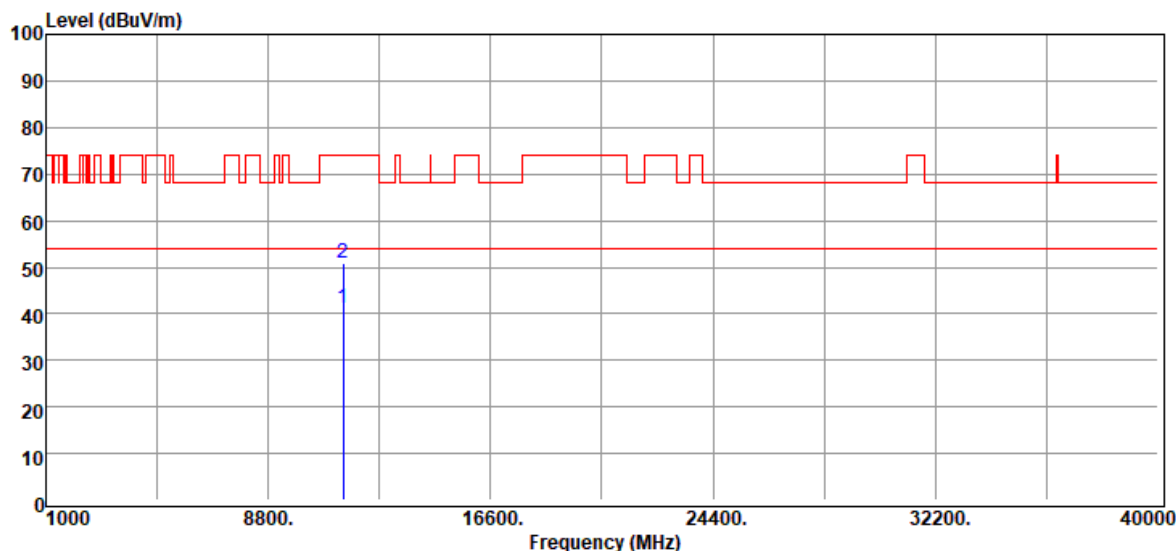
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Report Number :ER/2020/80122
 Operation Mode :802.11a / Band 3-4
 Test Frequency :5720 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-02
 Temp./Humi. :23.6/63
 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
11440.00	Average	29.63	11.65	41.28	54.00	-12.72
11440.00	Peak	39.34	11.65	50.99	74.00	-23.01

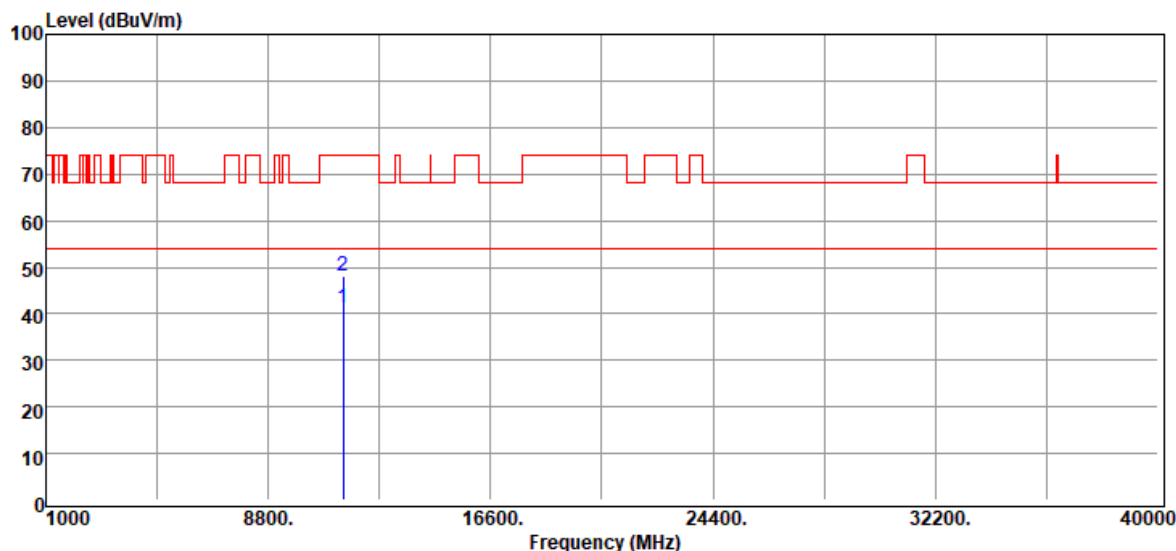
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Report Number :ER/2020/80122
 Operation Mode :802.11a / Band 3-4
 Test Frequency :5720 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-02
 Temp./Humi. :23.6/63
 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
11440.00	Average	29.52	11.65	41.17	54.00	-12.83
11440.00	Peak	36.44	11.65	48.09	74.00	-25.91

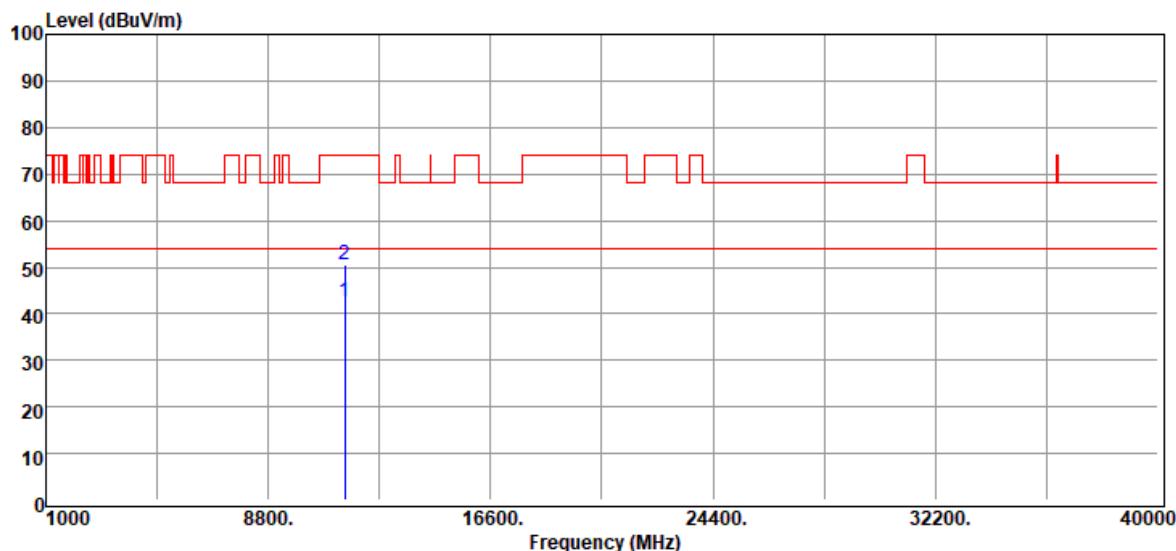
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Report Number :ER/2020/80122
 Operation Mode :802.11a / Band 4
 Test Frequency :5745 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-23
 Temp./Humi. :23.0/63
 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
11490.00	Average	30.15	12.58	42.73	54.00	-11.27
11490.00	Peak	37.98	12.58	50.56	74.00	-23.44

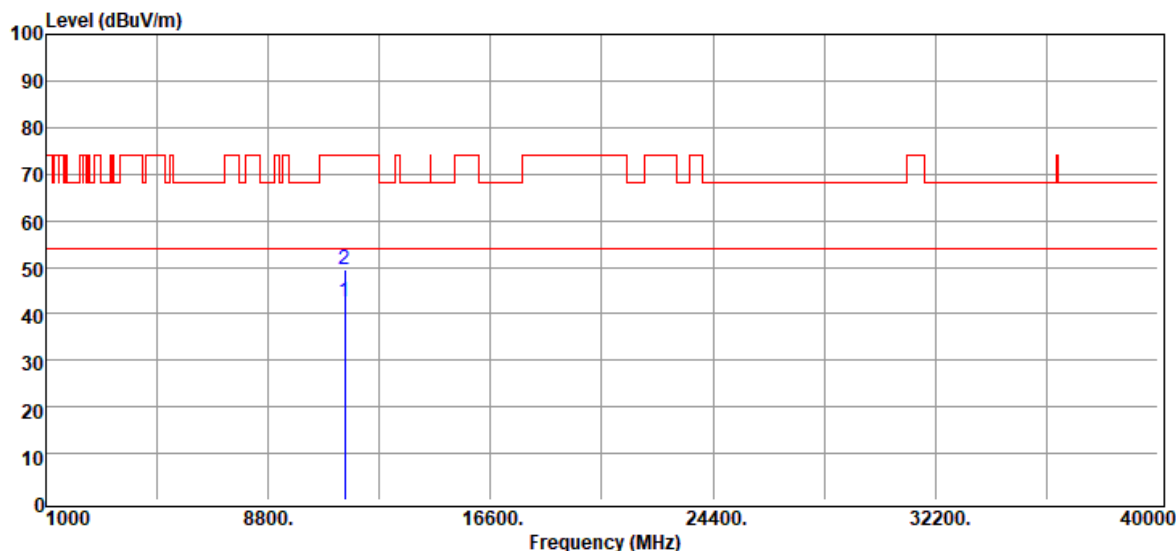
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-23
Temp./Humi. :23.0/63
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
11490.00	Average	30.01	12.58	42.59	54.00	-11.41
11490.00	Peak	36.97	12.58	49.55	74.00	-24.45

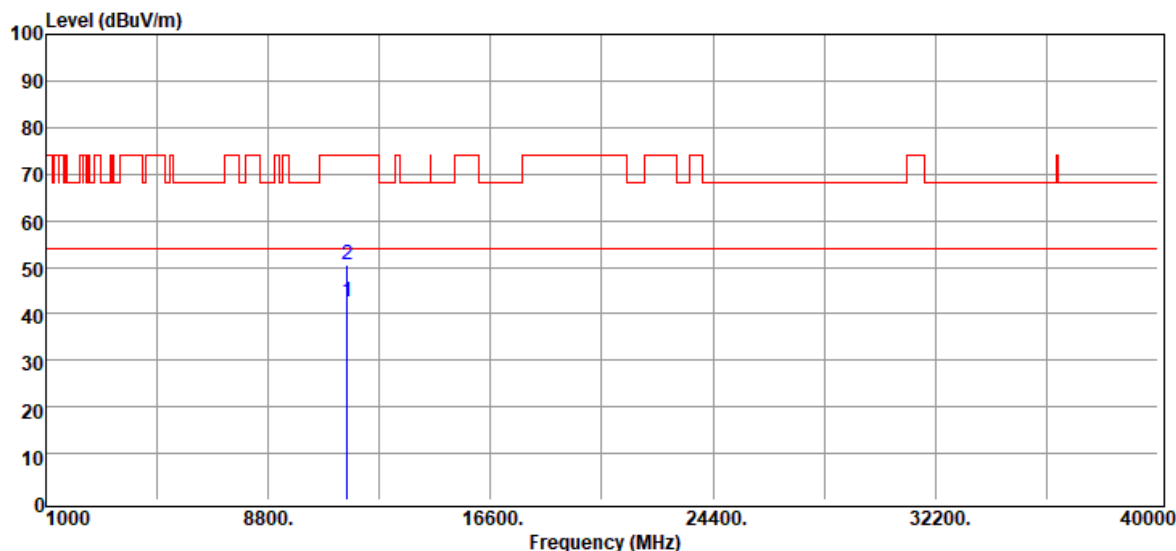
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Report Number :ER/2020/80122
 Operation Mode :802.11a / Band 4
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-23
 Temp./Humi. :23.0/63
 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
11570.00	Average	30.35	12.35	42.70	54.00	-11.30
11570.00	Peak	38.12	12.35	50.47	74.00	-23.53

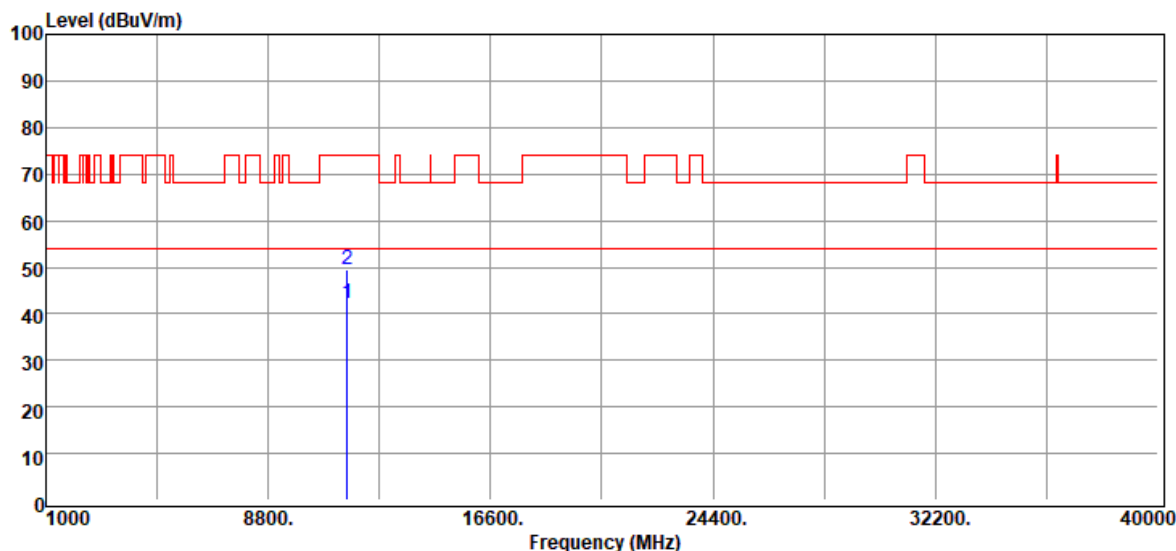
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-23
Temp./Humi. :23.0/63
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
11570.00	Average	29.79	12.35	42.14	54.00	-11.86
11570.00	Peak	37.09	12.35	49.44	74.00	-24.56

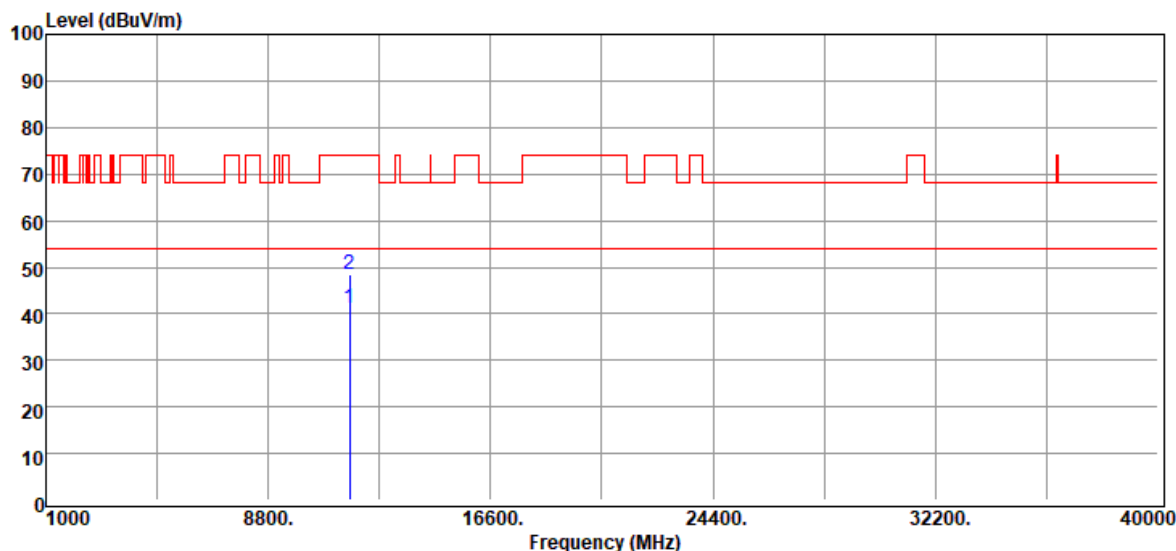
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Report Number :ER/2020/80122
 Operation Mode :802.11a / Band 4
 Test Frequency :5825 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-23
 Temp./Humi. :23.0/63
 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
11650.00	Average	29.97	11.16	41.13	54.00	-12.87
11650.00	Peak	37.45	11.16	48.61	74.00	-25.39

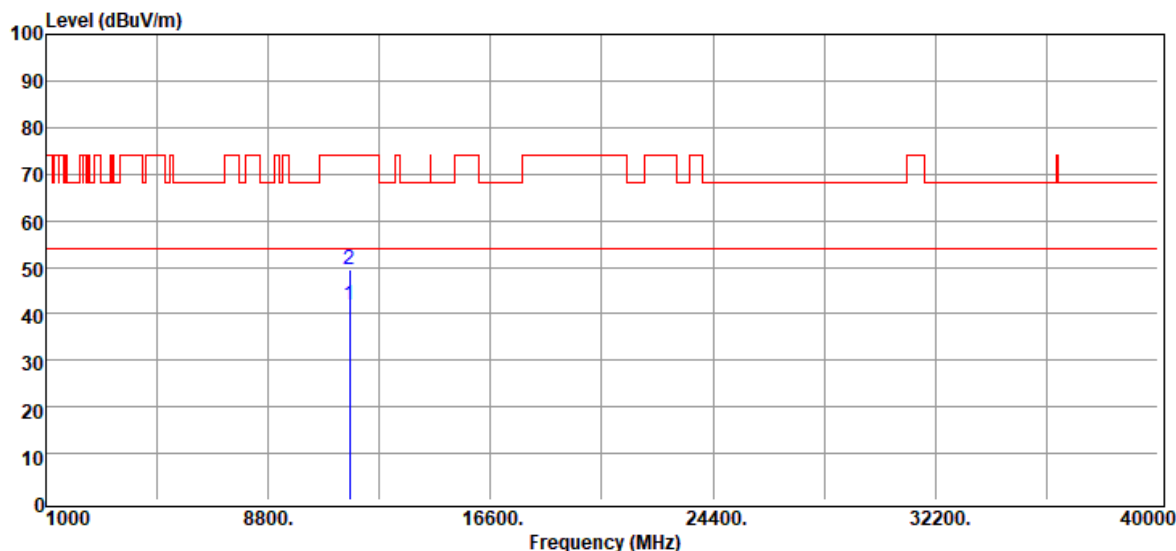
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-23
Temp./Humi. :23.0/63
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
11650.00	Average	30.70	11.16	41.86	54.00	-12.14
11650.00	Peak	38.49	11.16	49.65	74.00	-24.35

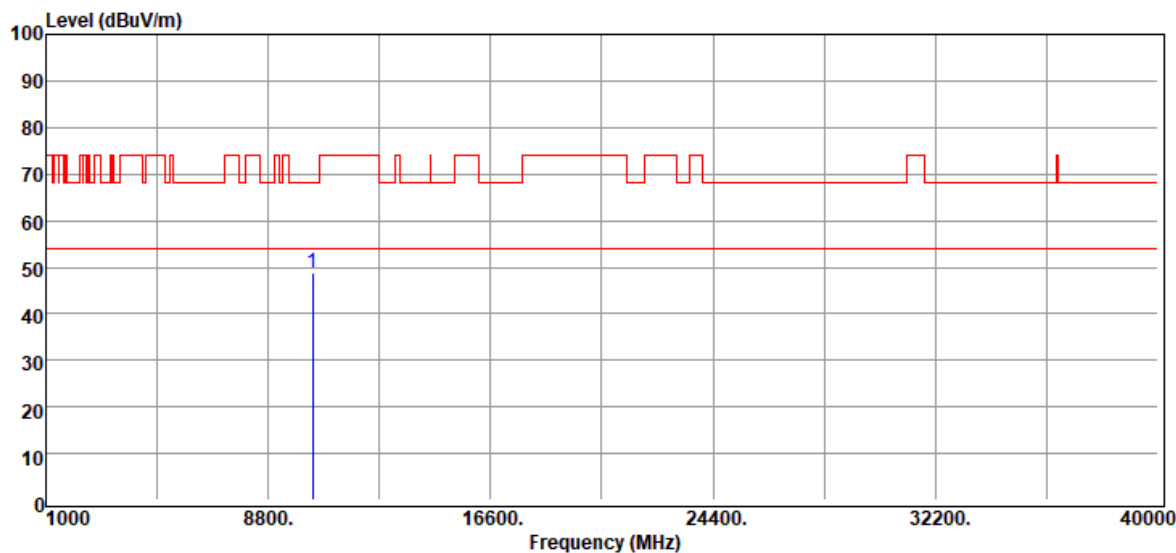
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 1
Test Frequency :5180 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-23
Temp./Humi. :22.8/64
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
10360.00	Peak	38.69	10.22	48.91	68.20	-19.29

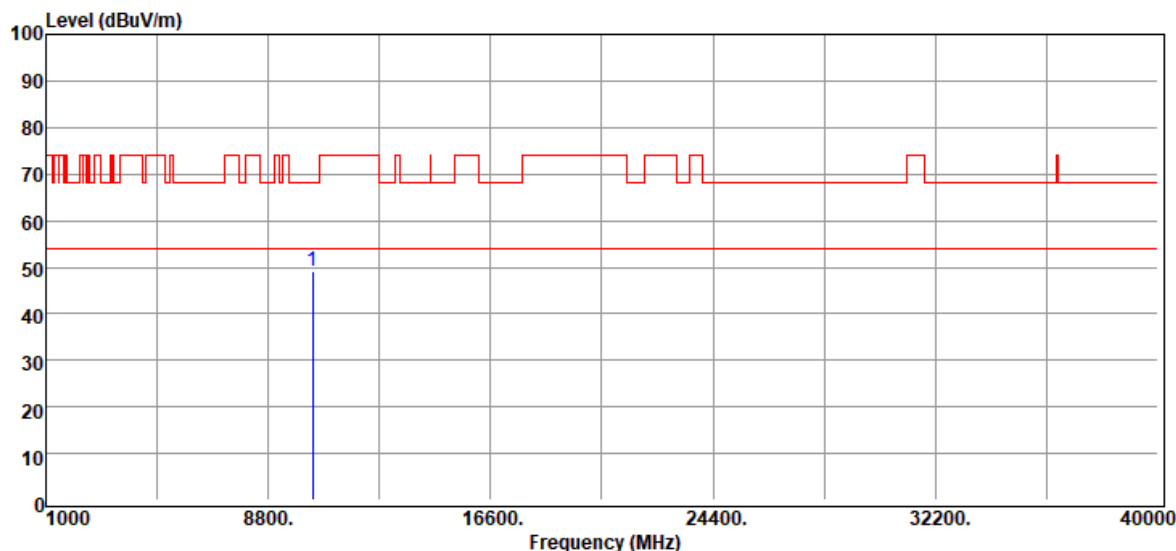
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Report Number :ER/2020/80122
 Operation Mode :802.11n20 / Band 1
 Test Frequency :5180 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-23
 Temp./Humi. :22.8/64
 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
10360.00	Peak	38.80	10.22	49.02	68.20	-19.18

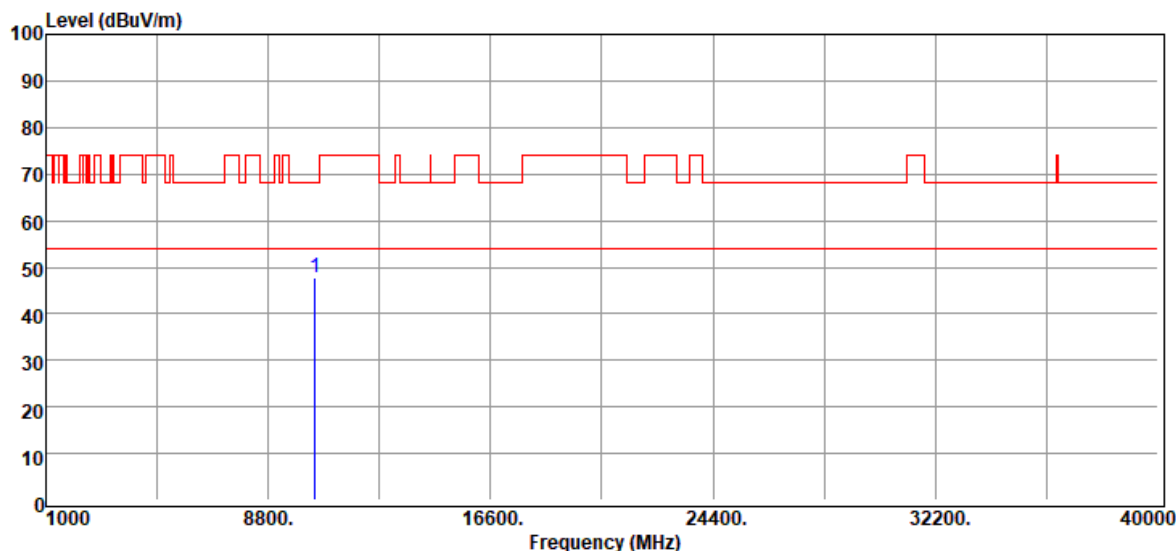
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.5/62
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
10440.00	Peak	36.86	10.94	47.80	68.20	-20.40

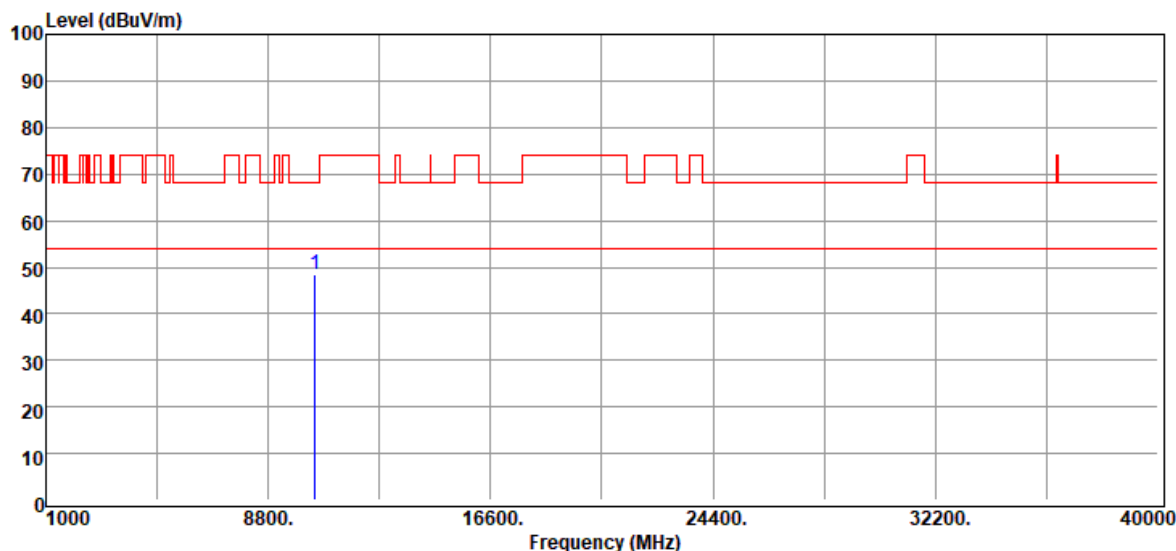
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.5/62
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
10440.00	Peak	37.61	10.94	48.55	68.20	-19.65

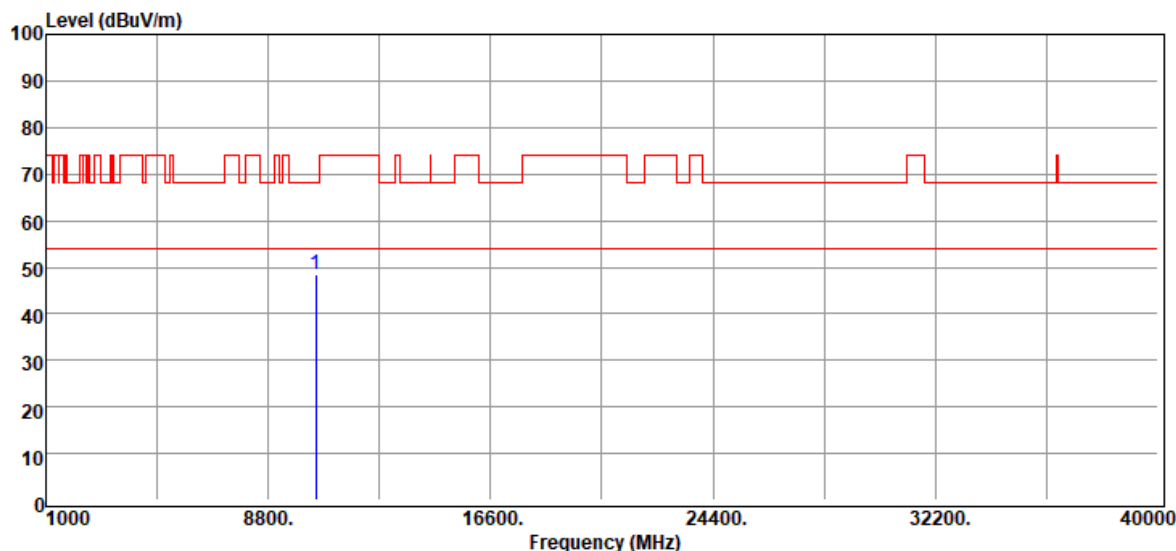
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 1
Test Frequency :5240 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.5/62
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
10480.00	Peak	37.12	11.16	48.28	68.20	-19.92

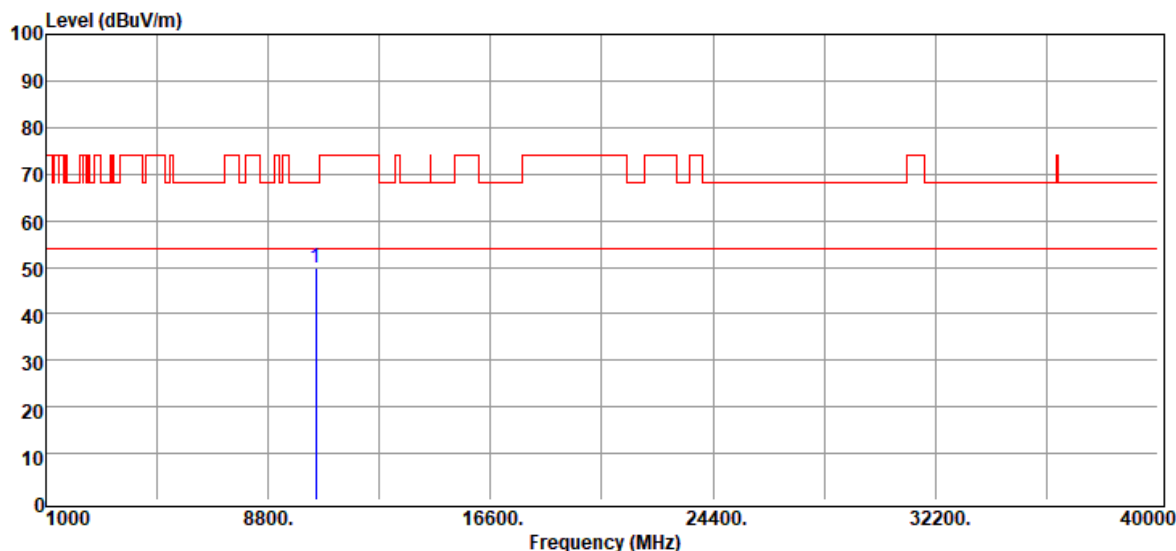
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 1
Test Frequency :5240 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.5/62
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
10480.00	Peak	38.72	11.16	49.88	68.20	-18.32

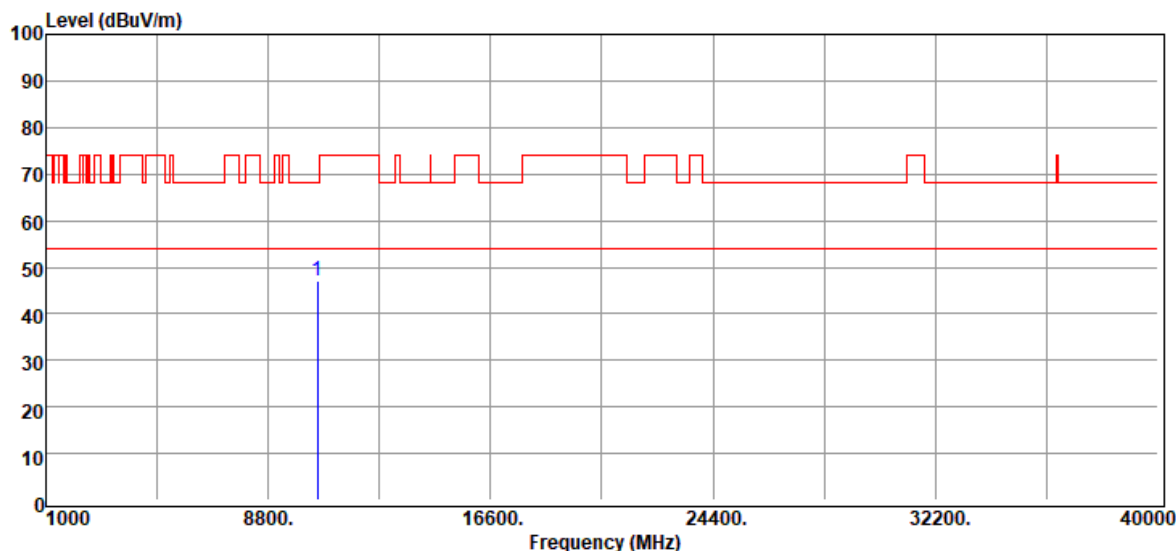
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 2
Test Frequency :5260 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.5/62
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
10520.00	Peak	35.99	11.20	47.19	68.20	-21.01

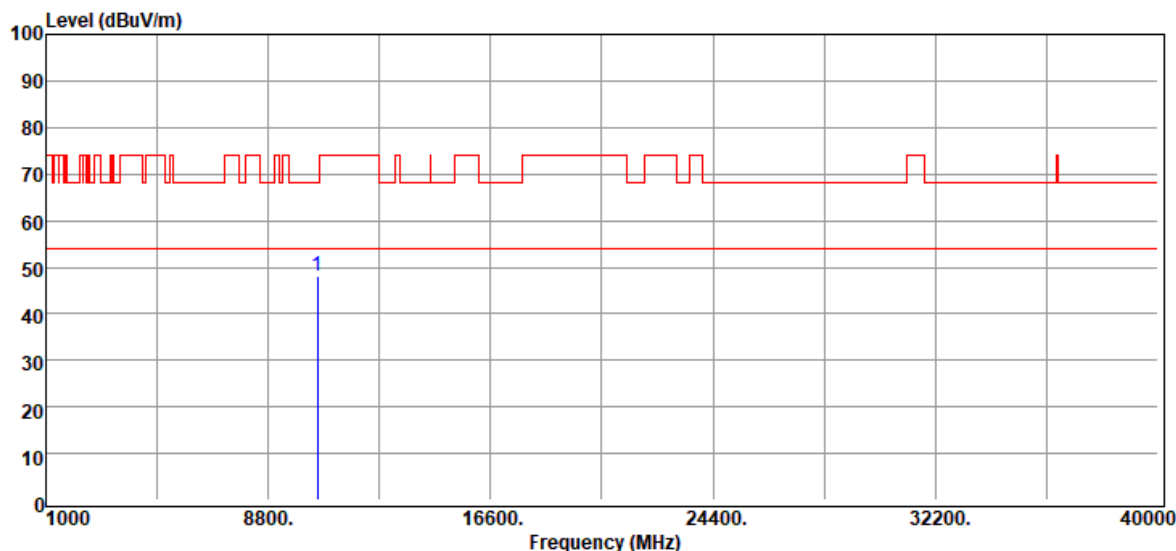
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 2
Test Frequency :5260 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.5/62
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
10520.00	Peak	37.01	11.20	48.21	68.20	-19.99

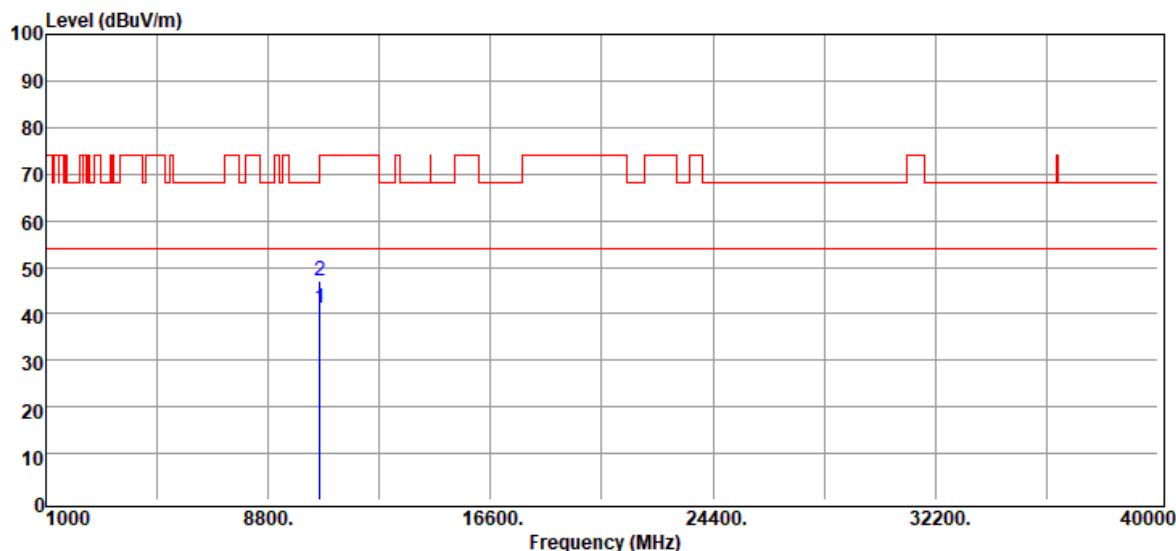
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.5/62
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
10600.00	Average	30.02	11.00	41.02	54.00	-12.98
10600.00	Peak	36.23	11.00	47.23	74.00	-26.77

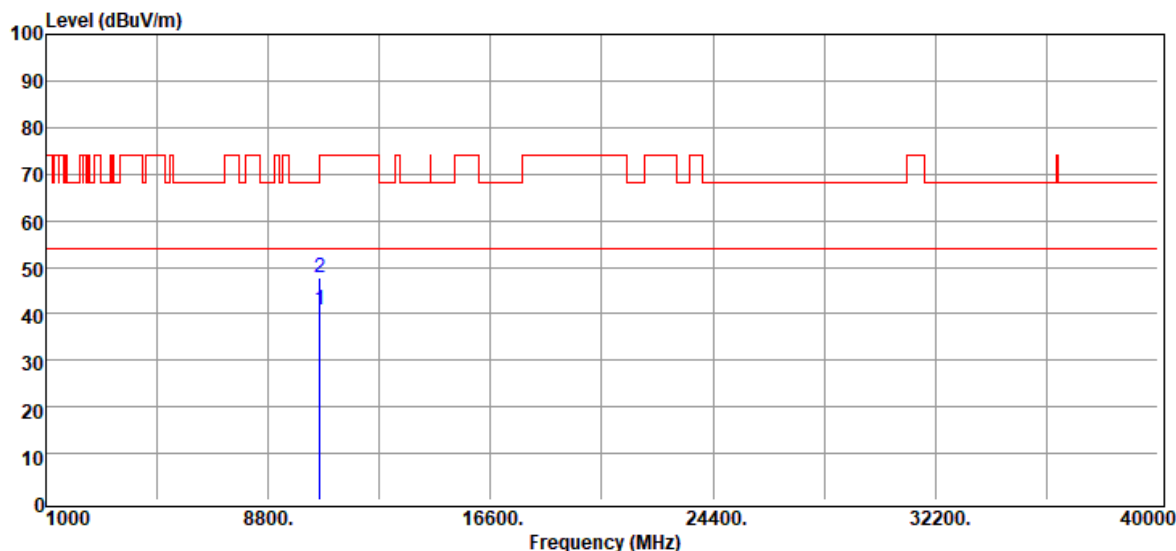
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.5/62
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
10600.00	Average	29.87	11.00	40.87	54.00	-13.13
10600.00	Peak	36.92	11.00	47.92	74.00	-26.08

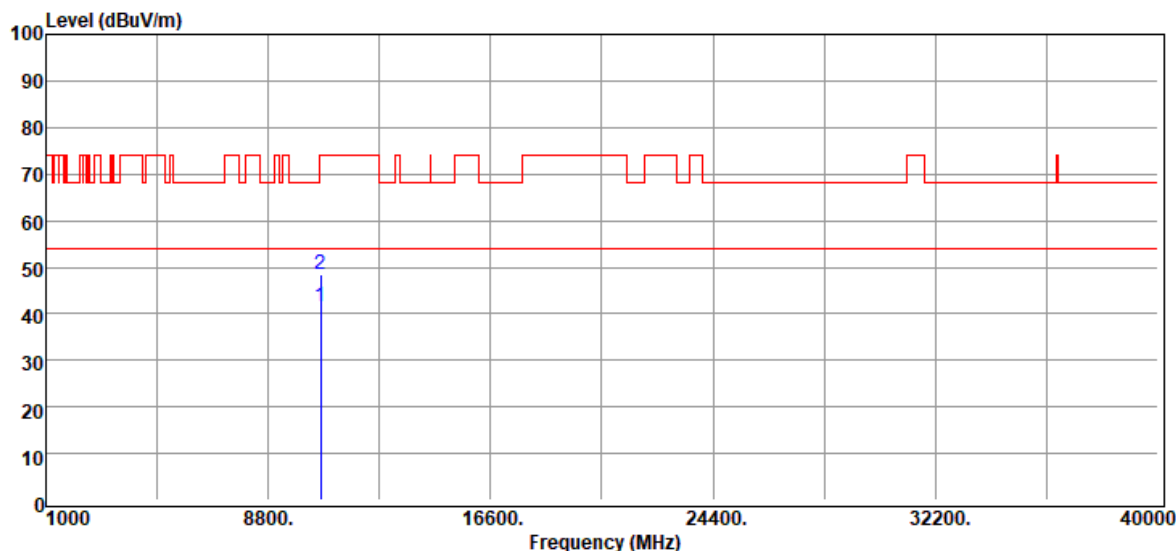
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 2
Test Frequency :5320 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-23
Temp./Humi. :22.8/64
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
10640.00	Average	30.32	11.10	41.42	54.00	-12.58
10640.00	Peak	37.45	11.10	48.55	74.00	-25.45

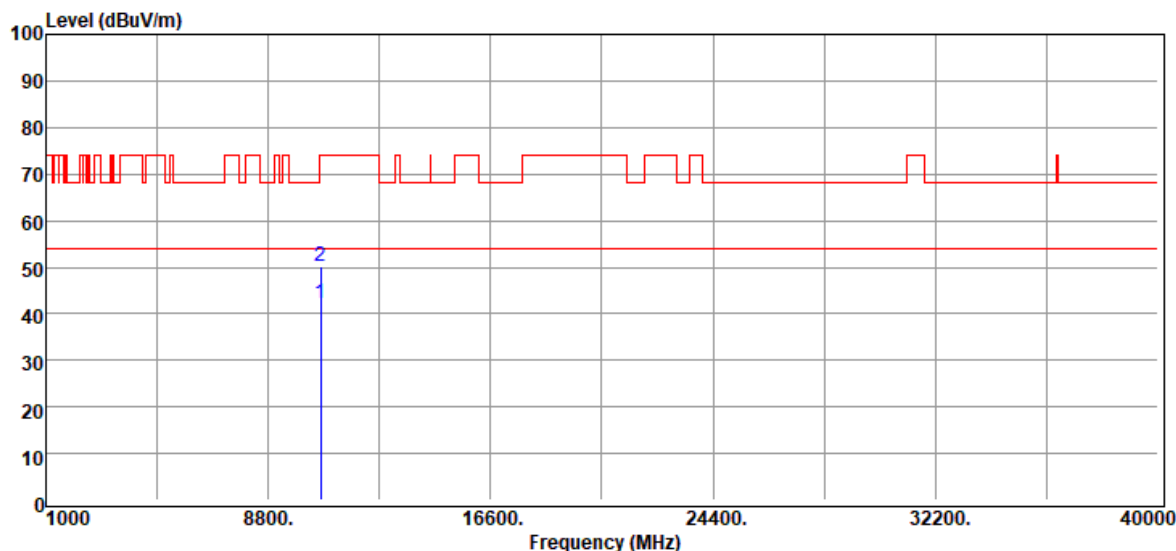
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Report Number :ER/2020/80122
 Operation Mode :802.11n20 / Band 2
 Test Frequency :5320 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-23
 Temp./Humi. :22.8/64
 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
10640.00	Average	31.02	11.10	42.12	54.00	-11.88
10640.00	Peak	38.95	11.10	50.05	74.00	-23.95

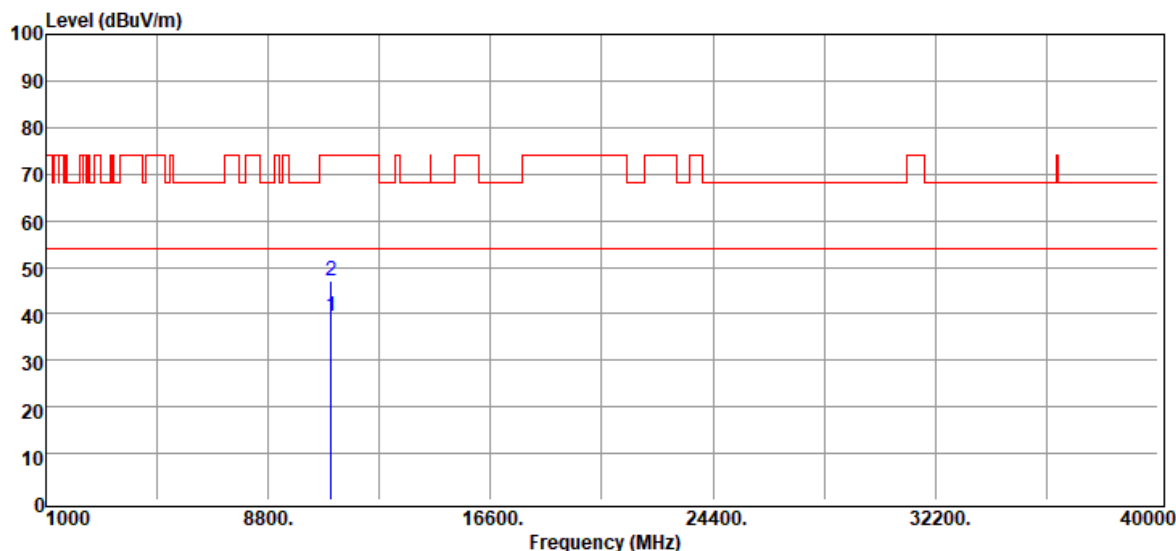
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.5/62
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
11000.00	Average	29.74	9.78	39.52	54.00	-14.48
11000.00	Peak	37.42	9.78	47.20	74.00	-26.80

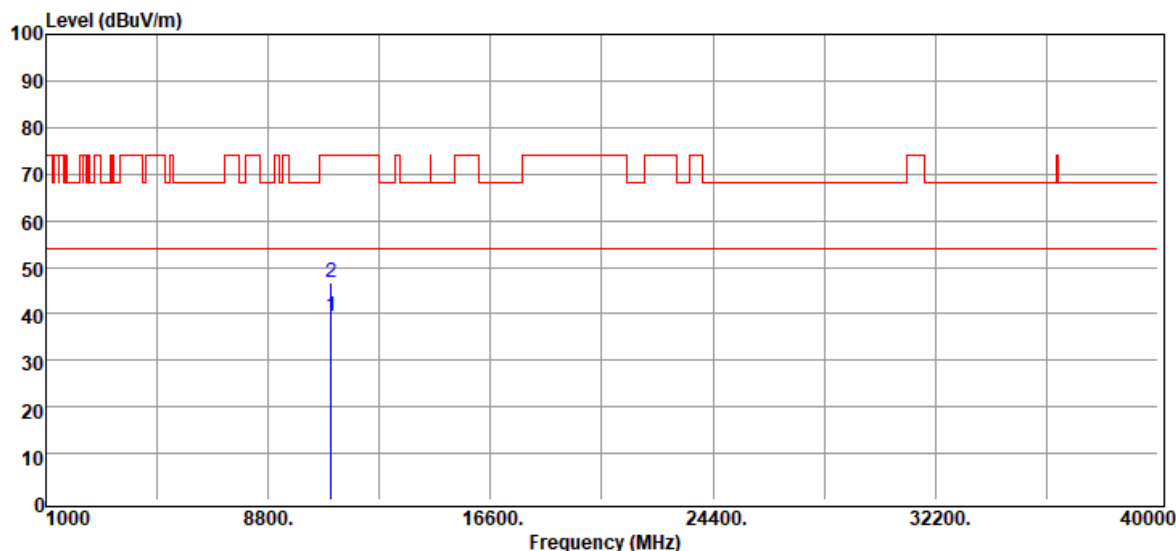
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.5/62
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
11000.00	Average	29.67	9.78	39.45	54.00	-14.55
11000.00	Peak	36.93	9.78	46.71	74.00	-27.29

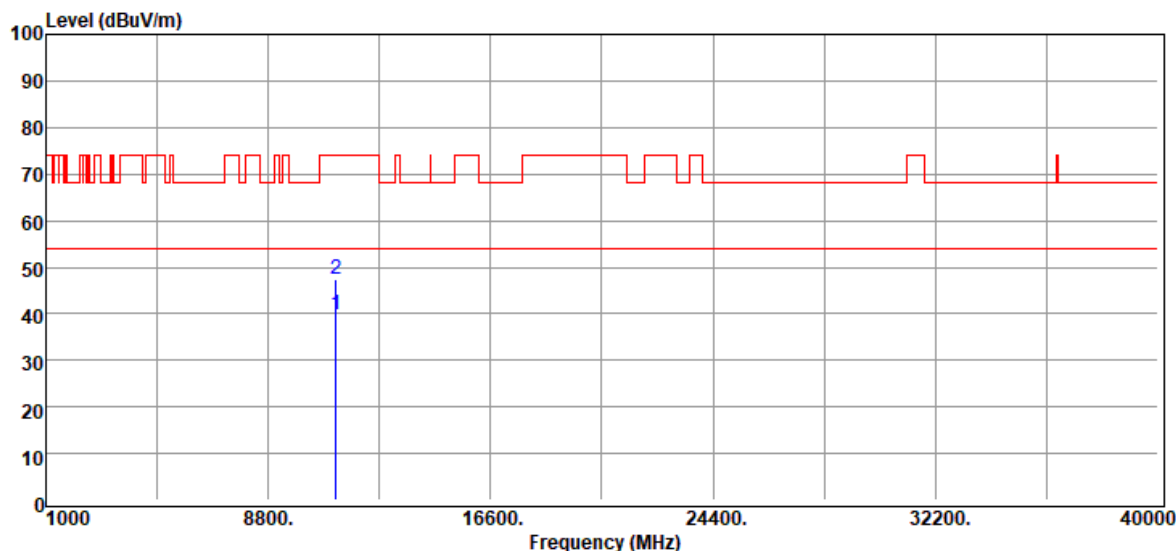
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.5/62
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
11160.00	Average	29.52	10.29	39.81	54.00	-14.19
11160.00	Peak	37.13	10.29	47.42	74.00	-26.58

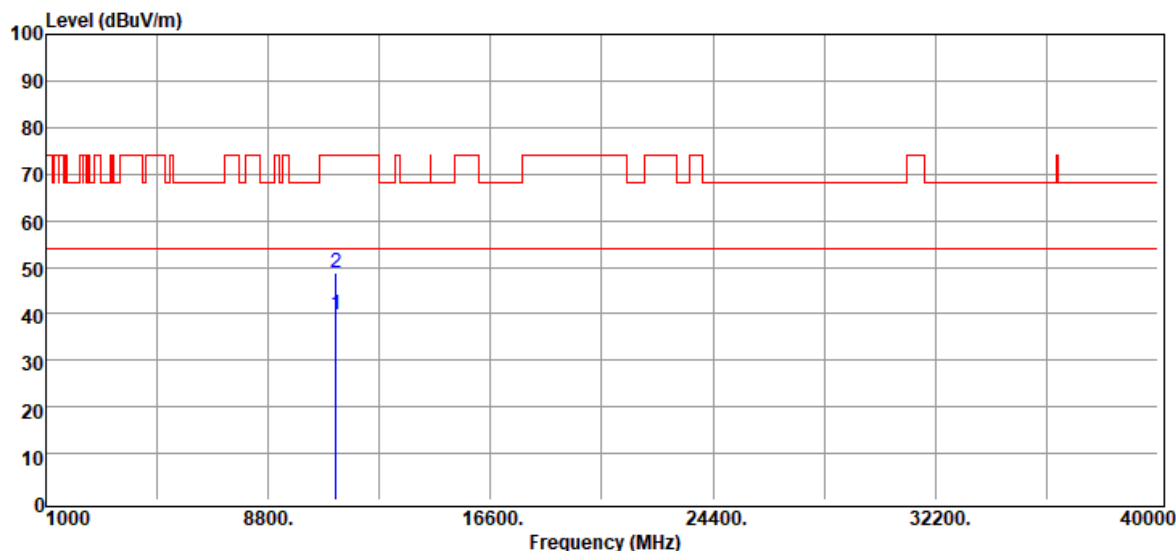
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Report Number :ER/2020/80122
 Operation Mode :802.11n20 / Band 3
 Test Frequency :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-02
 Temp./Humi. :23.5/62
 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
11160.00	Average	29.65	10.29	39.94	54.00	-14.06
11160.00	Peak	38.39	10.29	48.68	74.00	-25.32

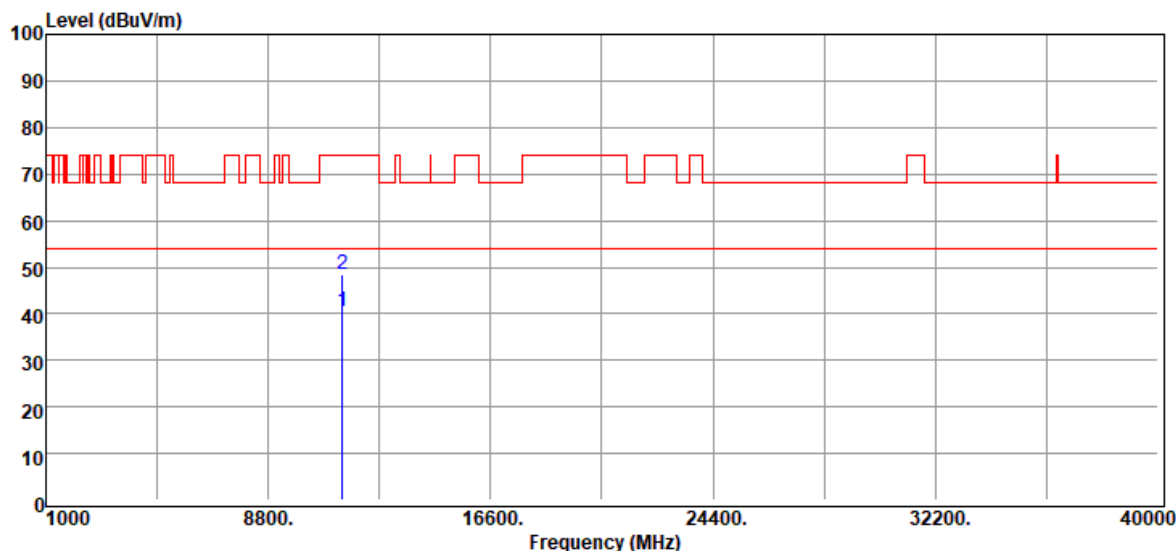
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.5/62
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
11400.00	Average	29.48	10.89	40.37	54.00	-13.63
11400.00	Peak	37.46	10.89	48.35	74.00	-25.65

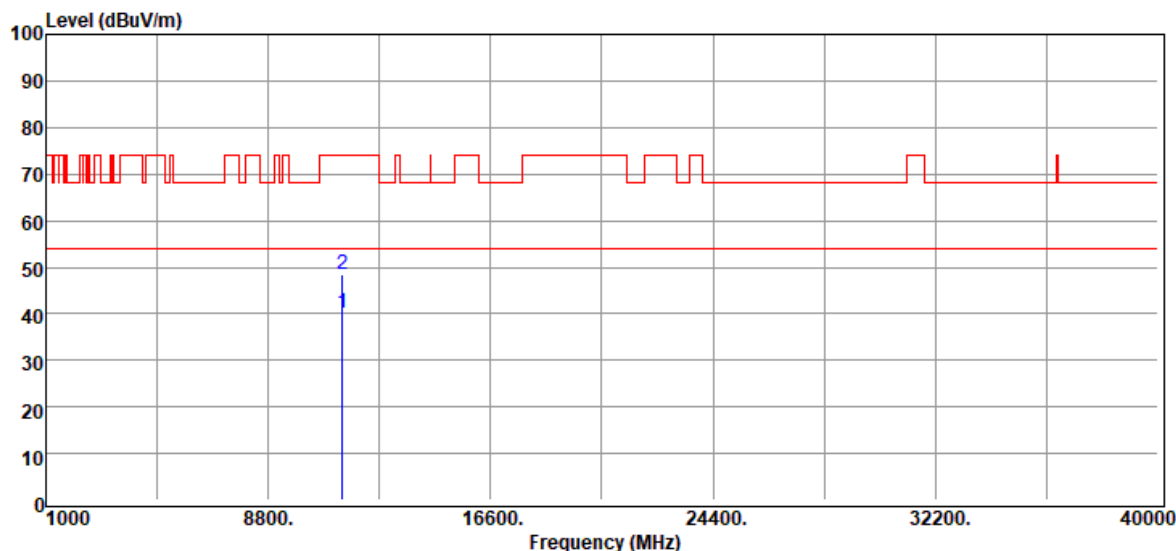
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Report Number :ER/2020/80122
 Operation Mode :802.11n20 / Band 3
 Test Frequency :5700 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-02
 Temp./Humi. :23.5/62
 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
11400.00	Average	29.41	10.89	40.30	54.00	-13.70
11400.00	Peak	37.64	10.89	48.53	74.00	-25.47

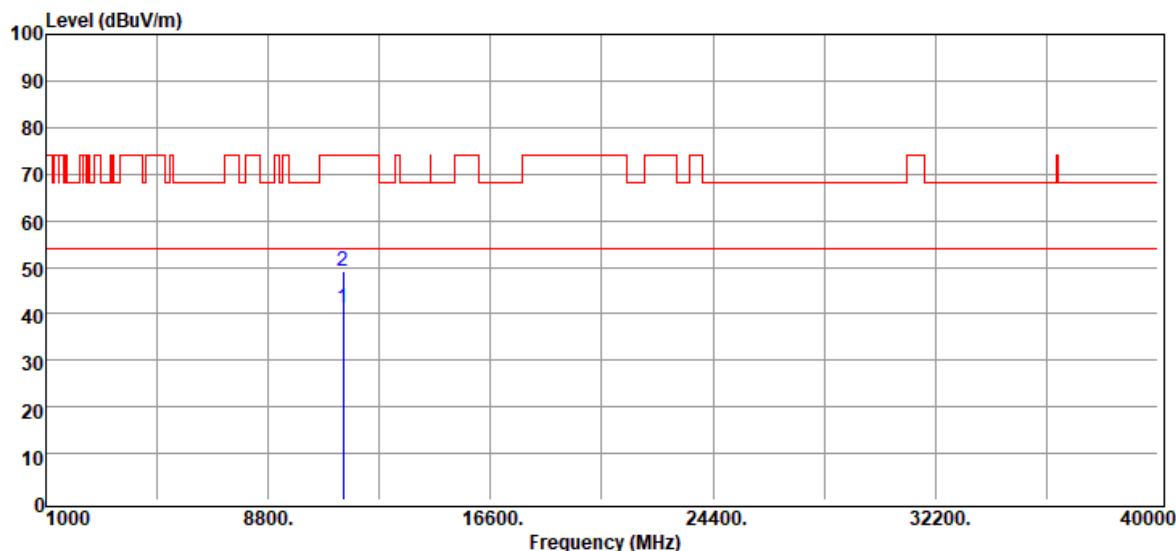
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 3-4
Test Frequency :5720 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.5/62
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
11440.00	Average	29.61	11.65	41.26	54.00	-12.74
11440.00	Peak	37.35	11.65	49.00	74.00	-25.00

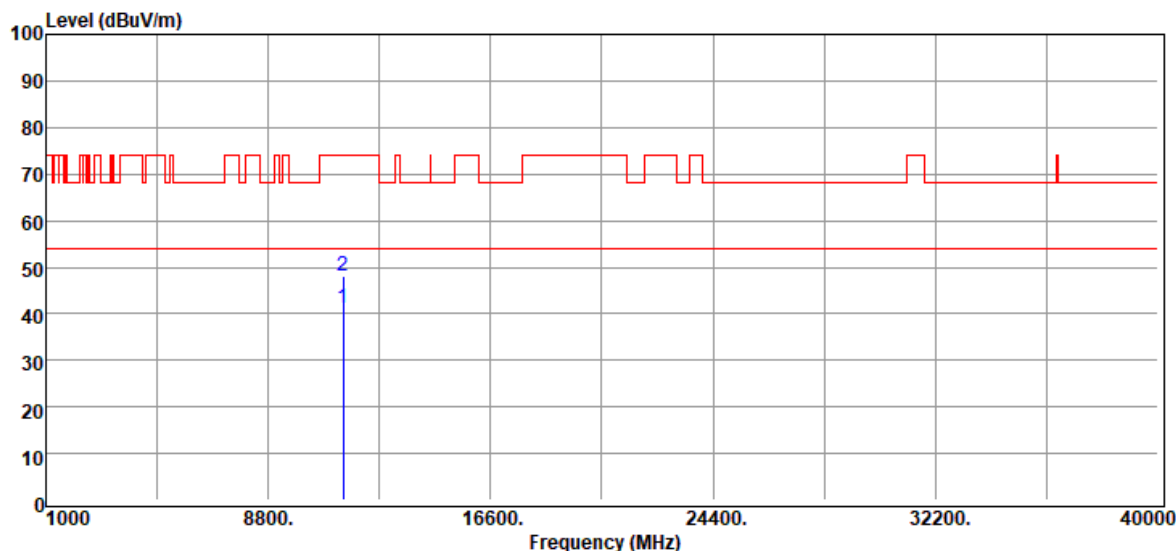
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Report Number :ER/2020/80122
 Operation Mode :802.11n20 / Band 3-4
 Test Frequency :5720 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-02
 Temp./Humi. :23.5/62
 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
11440.00	Average	29.54	11.65	41.19	54.00	-12.81
11440.00	Peak	36.34	11.65	47.99	74.00	-26.01

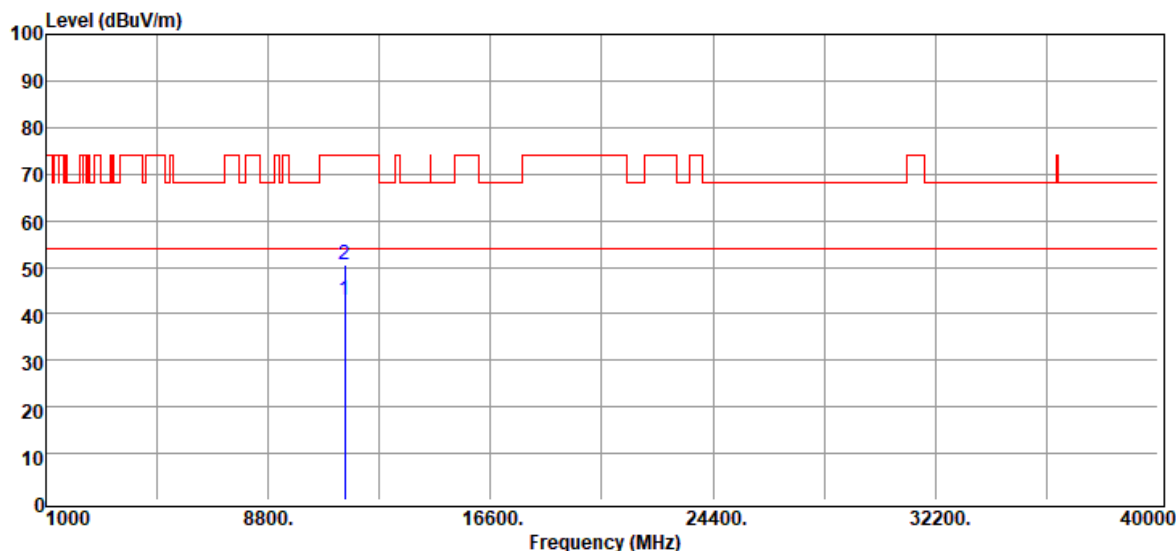
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Report Number :ER/2020/80122
 Operation Mode :802.11n20 / Band 4
 Test Frequency :5745 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-23
 Temp./Humi. :22.8/64
 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
11490.00	Average	30.19	12.58	42.77	54.00	-11.23
11490.00	Peak	37.89	12.58	50.47	74.00	-23.53

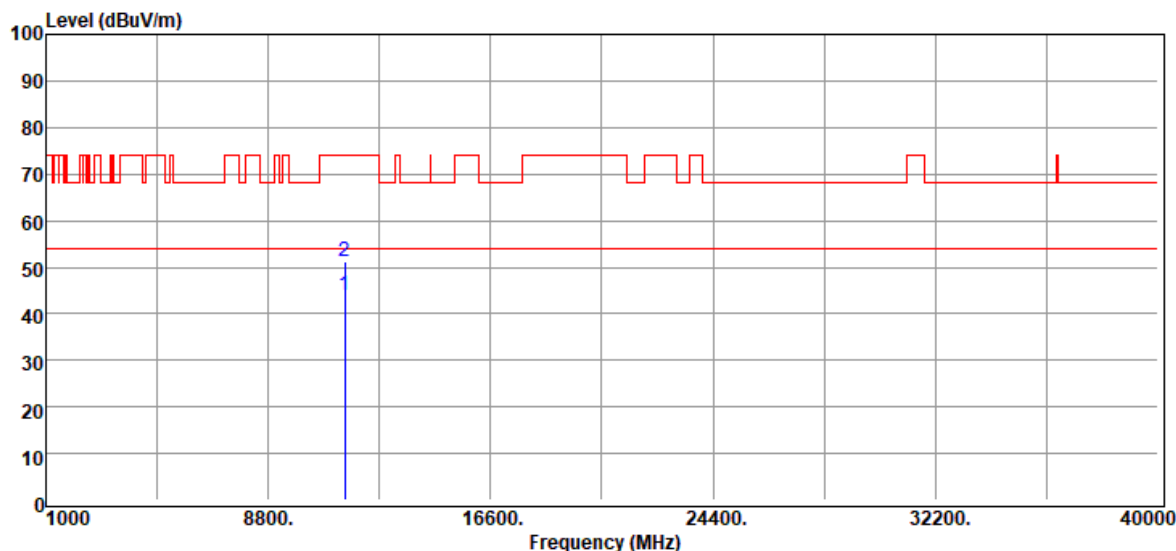
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 4
Test Frequency :5745 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-23
Temp./Humi. :22.8/64
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
11490.00	Average	31.26	12.58	43.84	54.00	-10.16
11490.00	Peak	38.47	12.58	51.05	74.00	-22.95

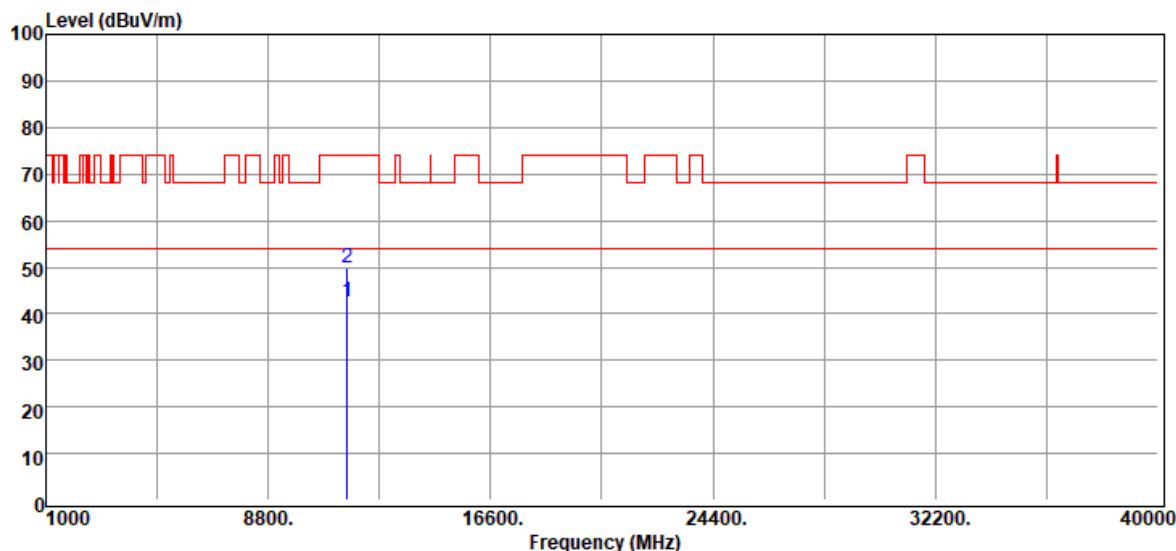
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-23
Temp./Humi. :22.8/64
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
11570.00	Average	30.37	12.35	42.72	54.00	-11.28
11570.00	Peak	37.48	12.35	49.83	74.00	-24.17

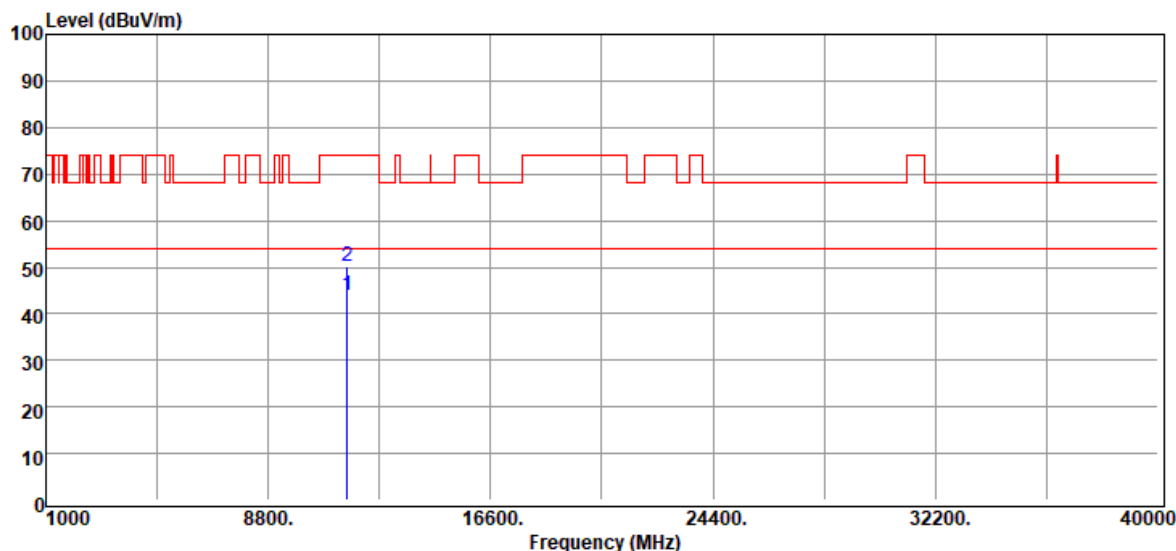
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Report Number :ER/2020/80122
 Operation Mode :802.11n20 / Band 4
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-23
 Temp./Humi. :22.8/64
 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
11570.00	Average	31.74	12.35	44.09	54.00	-9.91
11570.00	Peak	37.94	12.35	50.29	74.00	-23.71

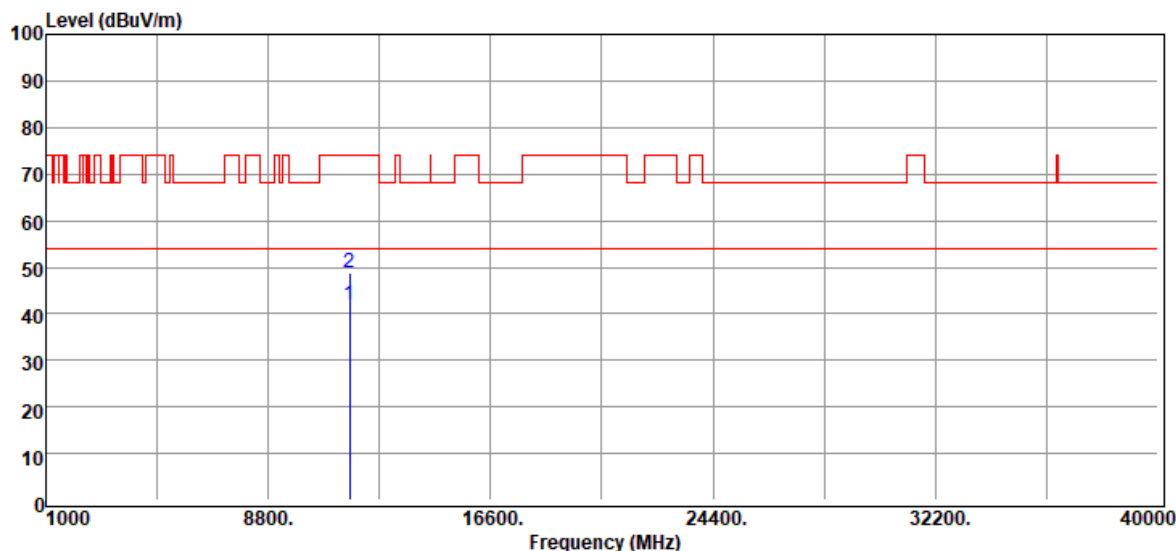
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 4
Test Frequency :5825 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-23
Temp./Humi. :22.8/64
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
11650.00	Average	30.74	11.16	41.90	54.00	-12.10
11650.00	Peak	37.46	11.16	48.62	74.00	-25.38

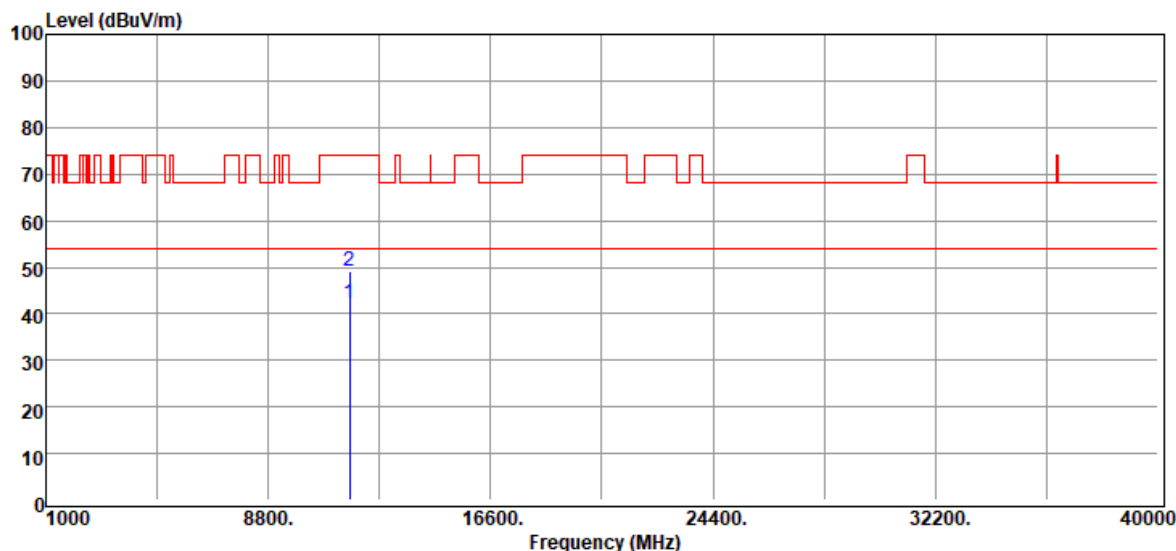
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Report Number :ER/2020/80122
 Operation Mode :802.11n20 / Band 4
 Test Frequency :5825 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-23
 Temp./Humi. :22.8/64
 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
11650.00	Average	31.22	11.16	42.38	54.00	-11.62
11650.00	Peak	37.94	11.16	49.10	74.00	-24.90

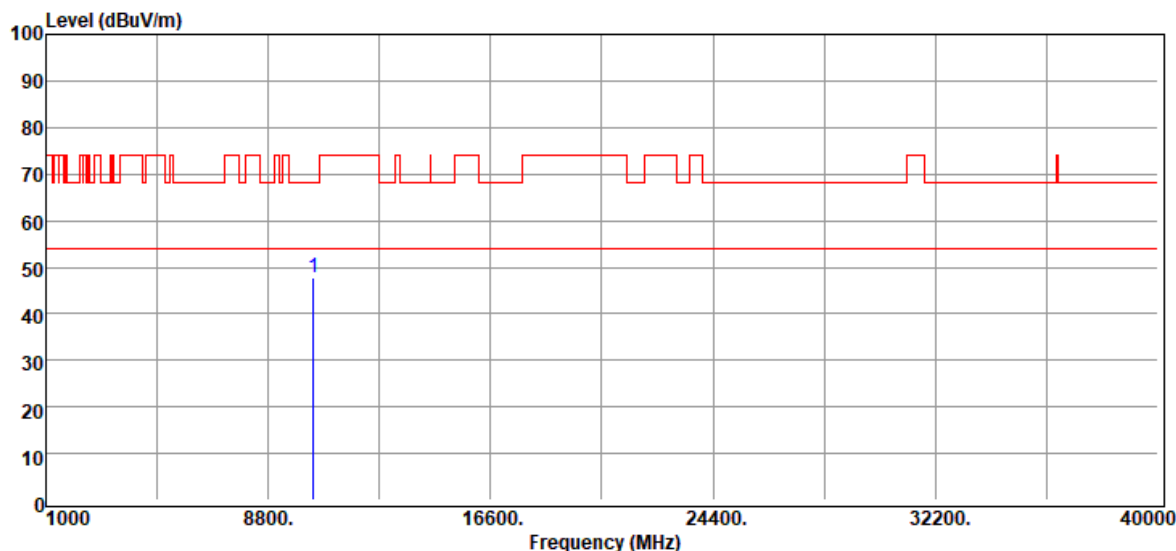
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Report Number :ER/2020/80122
 Operation Mode :802.11n40 / Band 1
 Test Frequency :5190 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-02
 Temp./Humi. :23.2/61
 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
10380.00	Peak	37.33	10.49	47.82	68.20	-20.38

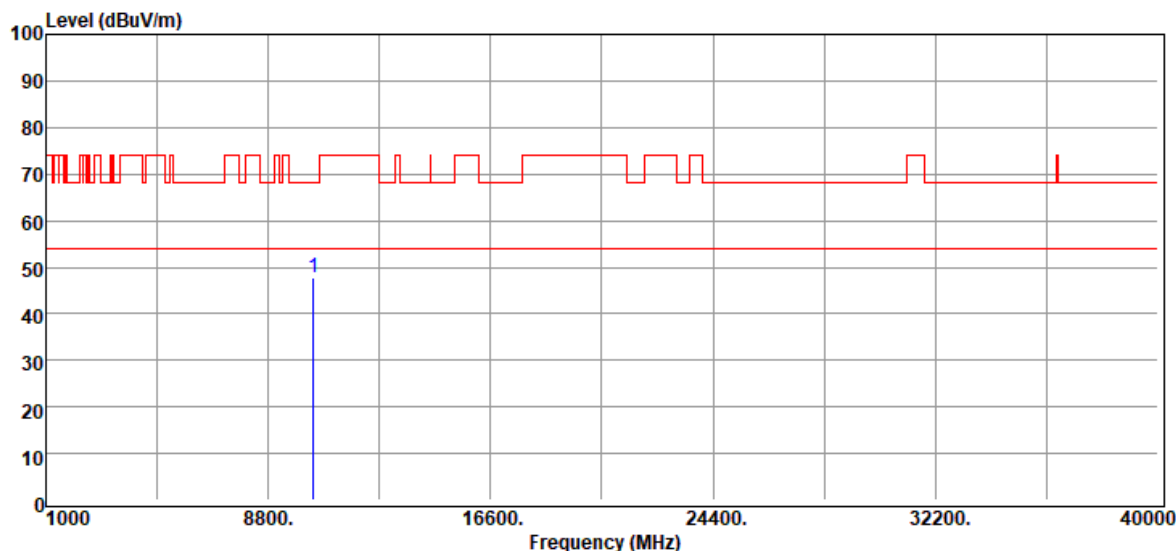
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Report Number :ER/2020/80122
 Operation Mode :802.11n40 / Band 1
 Test Frequency :5190 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-02
 Temp./Humi. :23.2/61
 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
10380.00	Peak	37.23	10.49	47.72	68.20	-20.48

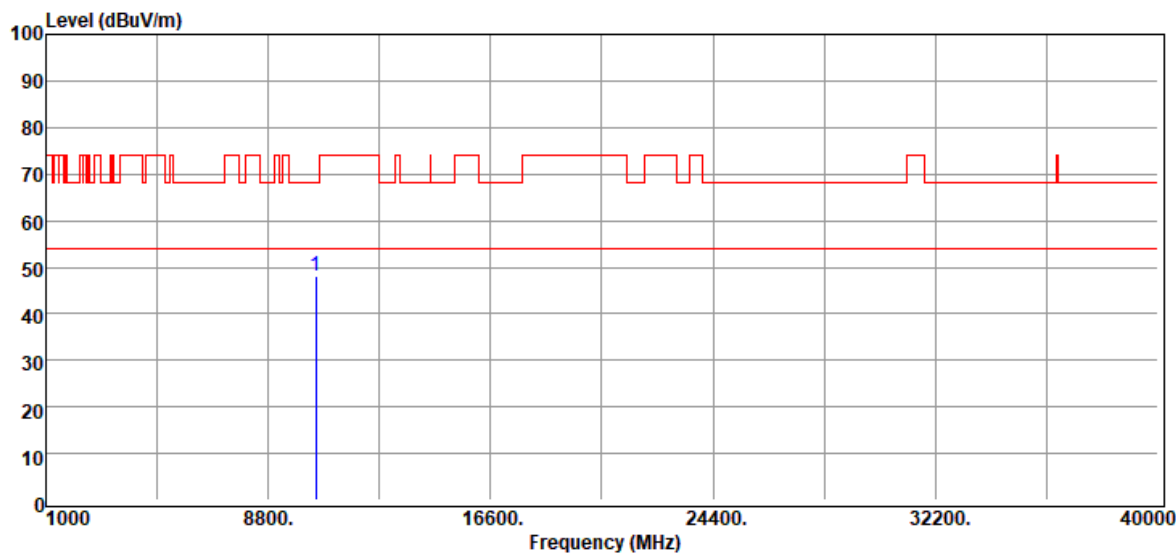
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 1
Test Frequency :5230 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.2/61
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
10460.00	Peak	36.99	11.06	48.05	68.20	-20.15

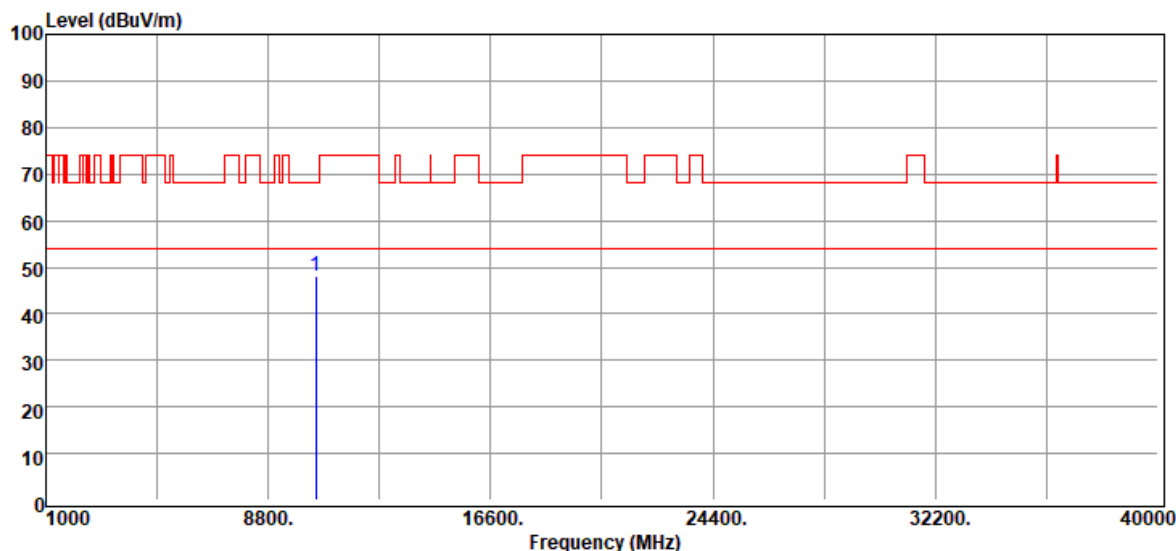
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 1
Test Frequency :5230 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.2/61
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
10460.00	Peak	37.05	11.06	48.11	68.20	-20.09

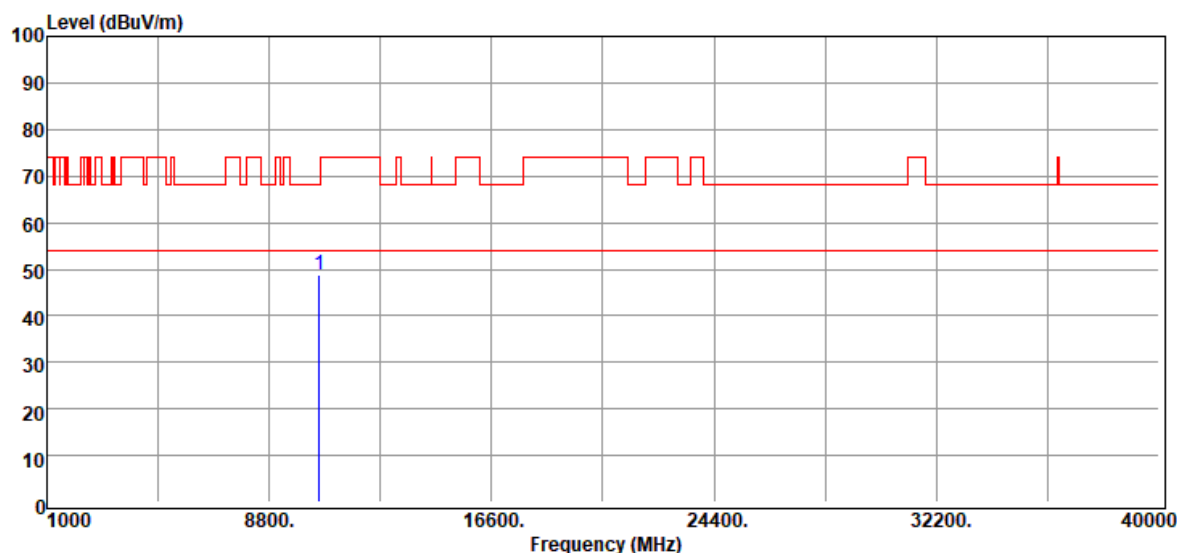
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 2
Test Frequency :5270 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.2/61
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
10540.00	Peak	37.69	11.16	48.85	68.20	-19.35

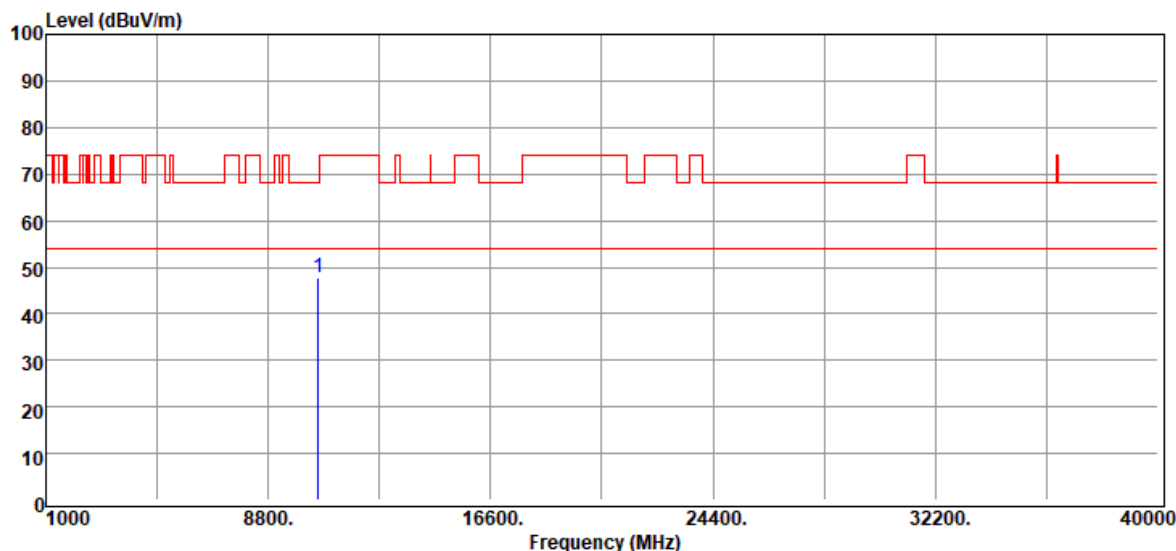
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 2
Test Frequency :5270 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.2/61
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
10540.00	Peak	36.45	11.16	47.61	68.20	-20.59

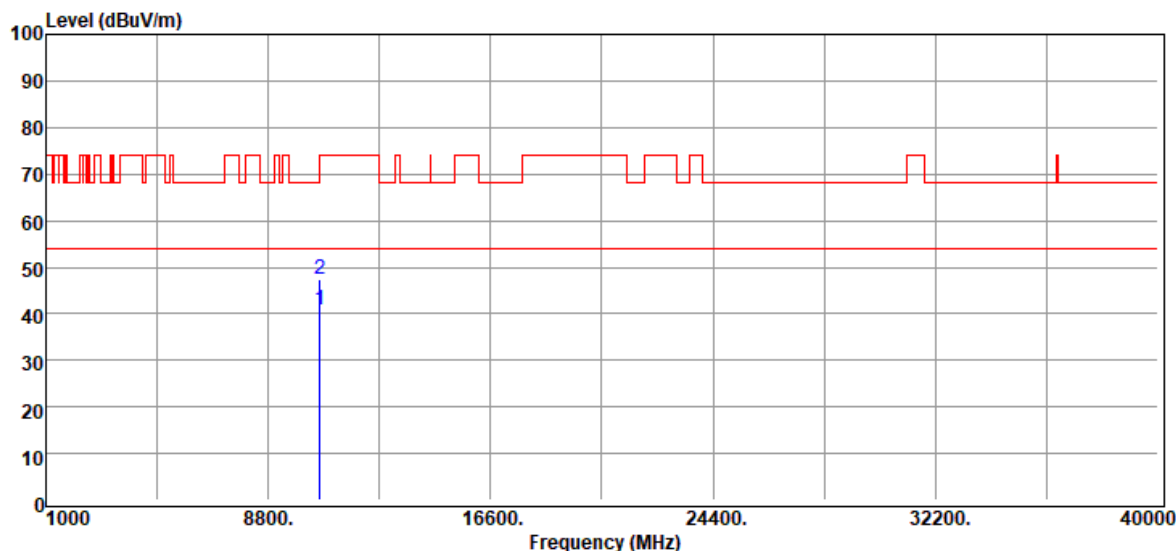
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 2
Test Frequency :5310 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.2/61
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
10620.00	Average	29.81	11.04	40.85	54.00	-13.15
10620.00	Peak	36.41	11.04	47.45	74.00	-26.55

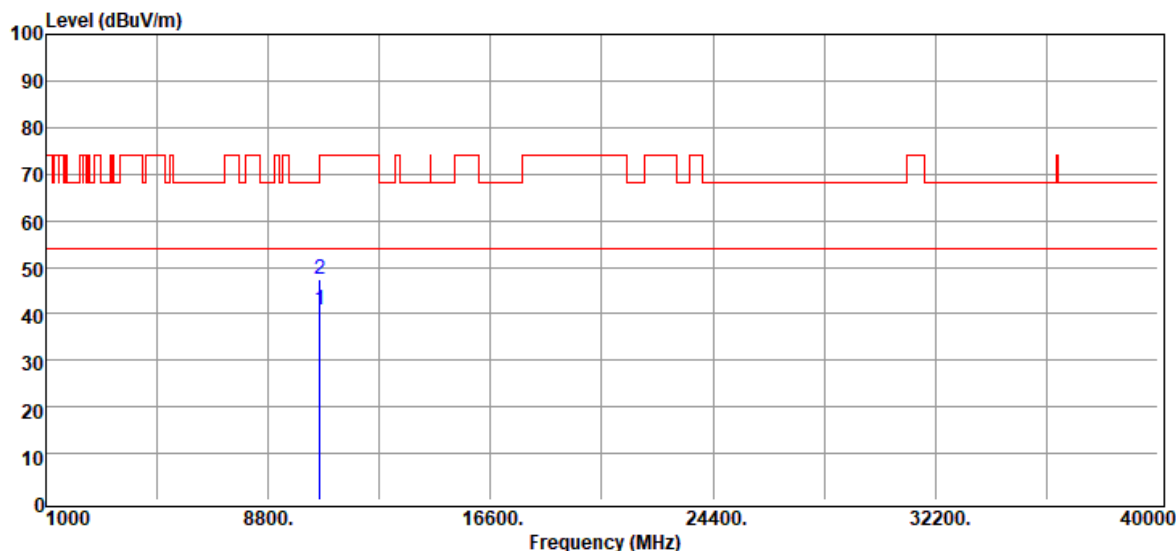
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Report Number :ER/2020/80122
 Operation Mode :802.11n40 / Band 2
 Test Frequency :5310 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-02
 Temp./Humi. :23.2/61
 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
10620.00	Average	29.83	11.04	40.87	54.00	-13.13
10620.00	Peak	36.22	11.04	47.26	74.00	-26.74

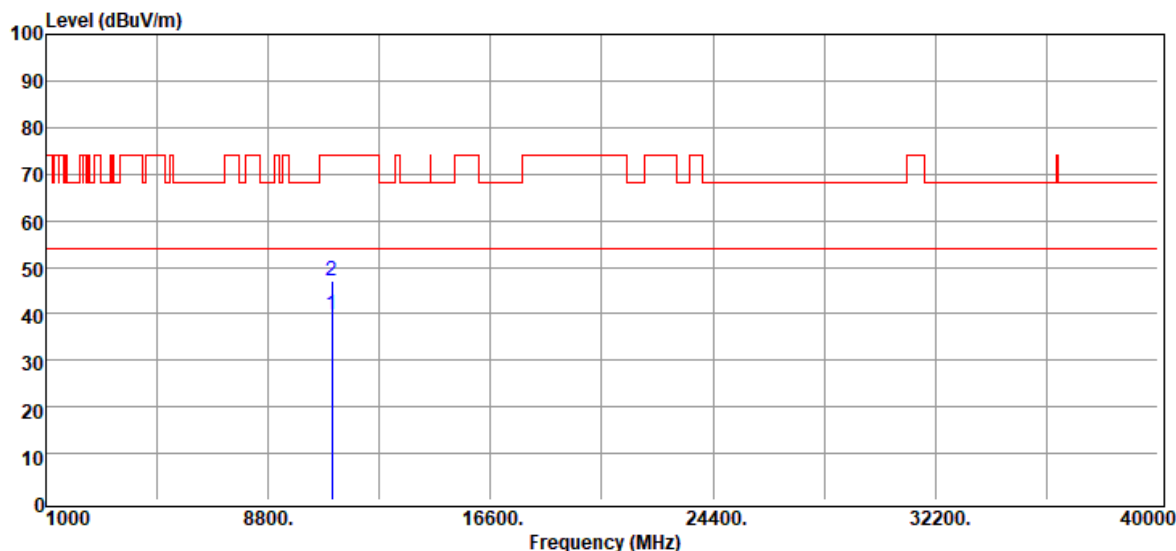
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.2/61
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
11020.00	Average	29.92	9.88	39.80	54.00	-14.20
11020.00	Peak	37.12	9.88	47.00	74.00	-27.00

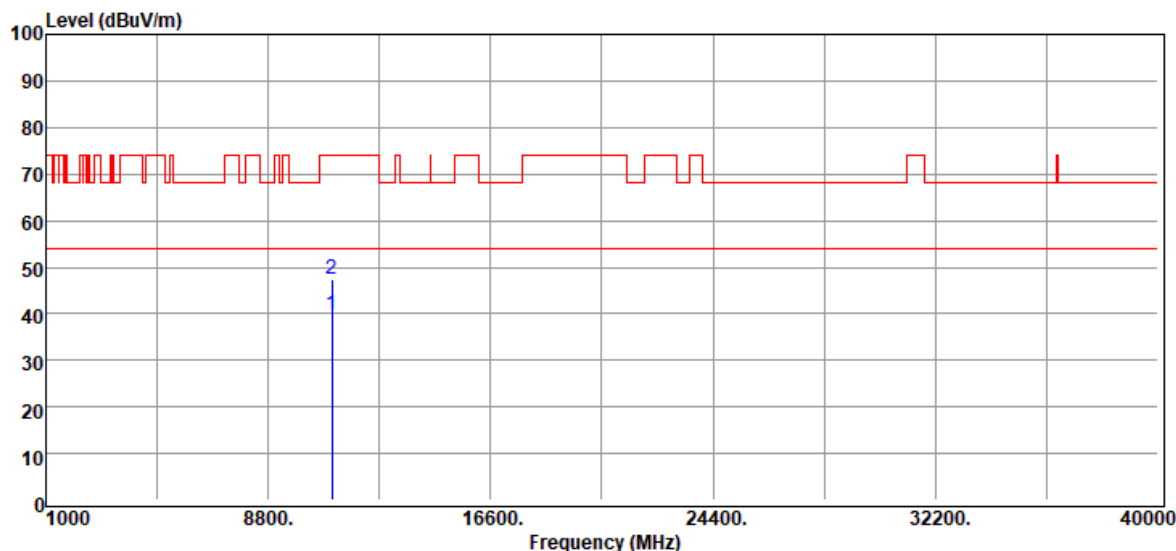
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.2/61
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
11020.00	Average	29.84	9.88	39.72	54.00	-14.28
11020.00	Peak	37.38	9.88	47.26	74.00	-26.74

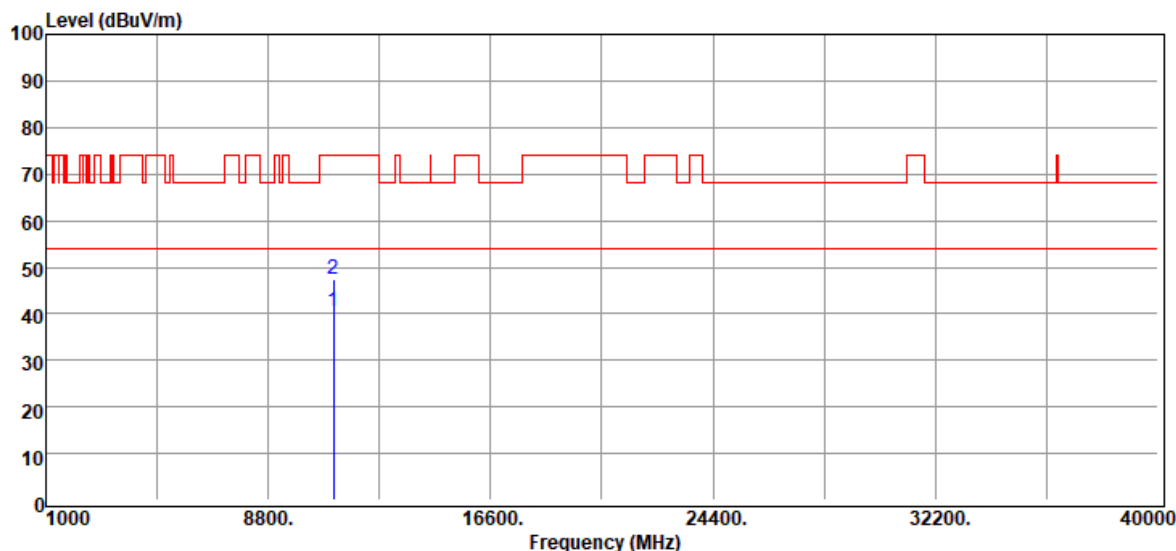
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 3
Test Frequency :5550 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.2/61
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
11100.00	Average	30.03	10.30	40.33	54.00	-13.67
11100.00	Peak	37.01	10.30	47.31	74.00	-26.69

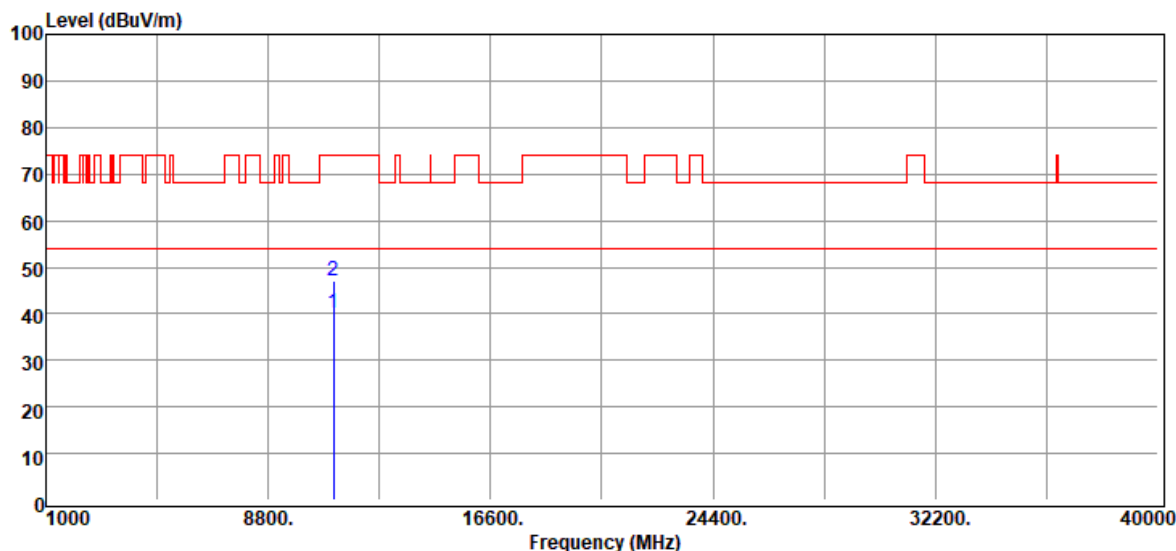
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 3
Test Frequency :5550 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.2/61
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
11100.00	Average	29.98	10.30	40.28	54.00	-13.72
11100.00	Peak	36.61	10.30	46.91	74.00	-27.09

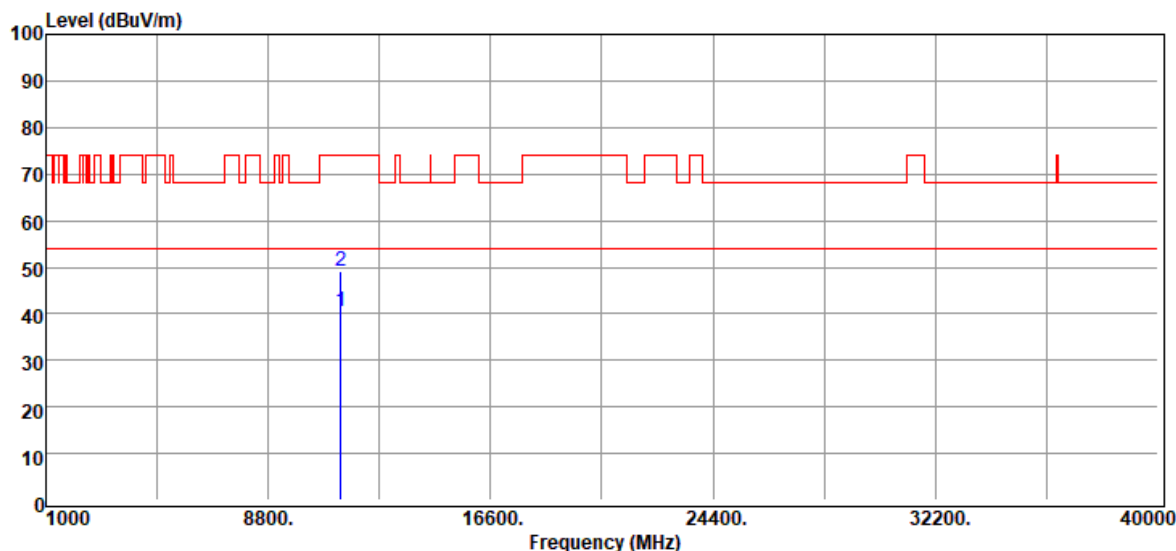
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 3
Test Frequency :5670 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.2/61
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
11340.00	Average	29.57	11.06	40.63	54.00	-13.37
11340.00	Peak	37.91	11.06	48.97	74.00	-25.03

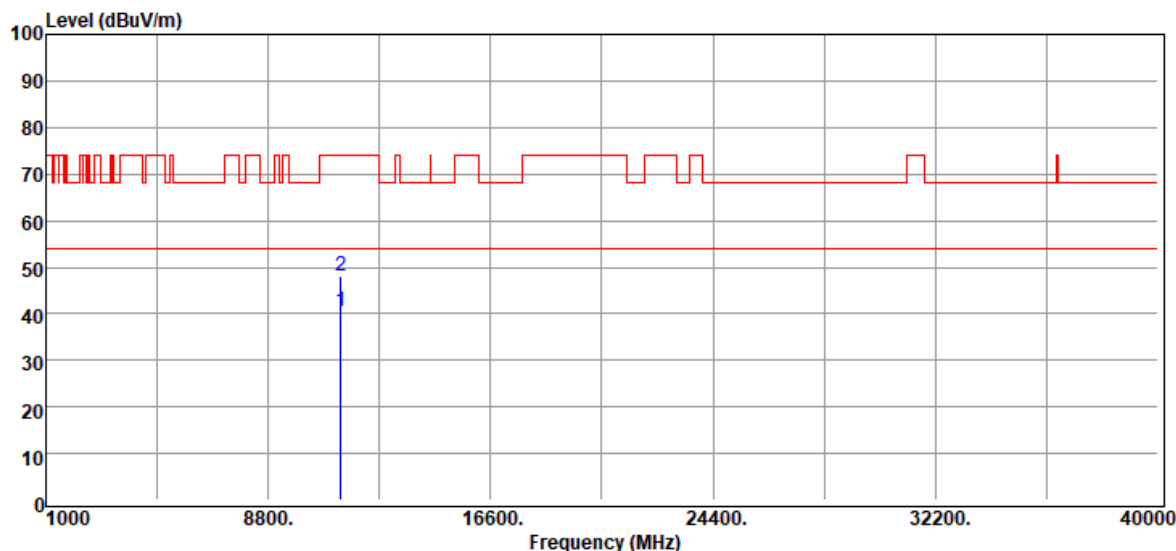
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Report Number :ER/2020/80122
 Operation Mode :802.11n40 / Band 3
 Test Frequency :5670 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-02
 Temp./Humi. :23.2/61
 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
11340.00	Average	29.54	11.06	40.60	54.00	-13.40
11340.00	Peak	37.20	11.06	48.26	74.00	-25.74

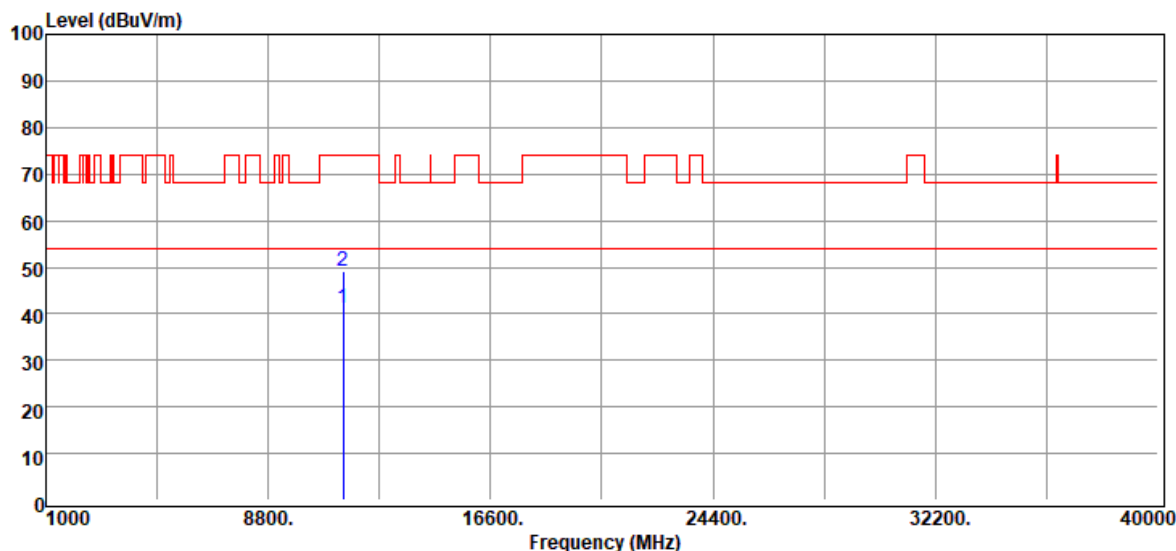
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 3-4
Test Frequency :5710 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.2/61
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
11420.00	Average	29.82	11.27	41.09	54.00	-12.91
11420.00	Peak	37.75	11.27	49.02	74.00	-24.98

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Report Number :ER/2020/80122

Operation Mode :802.11n40 / Band 3-4

Test Frequency :5710 MHz

Test Mode :TX CH MID

EUT Pol :E2 Plan

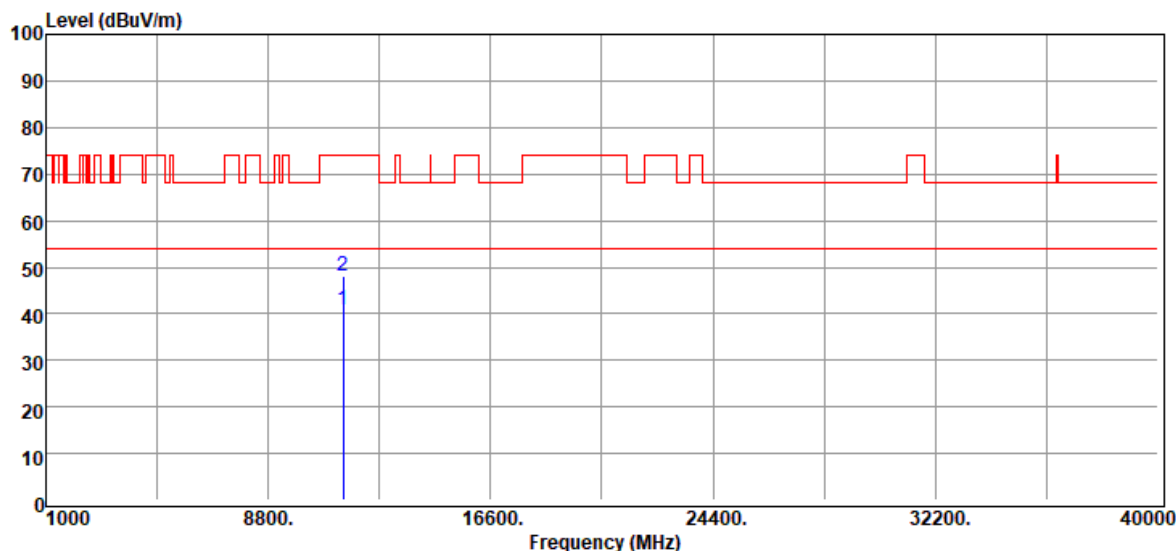
Test Site :966 Chamber D

Test Date :2020-09-02

Temp./Humi. :23.2/61

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
11420.00	Average	29.68	11.27	40.95	54.00	-13.05
11420.00	Peak	36.76	11.27	48.03	74.00	-25.97

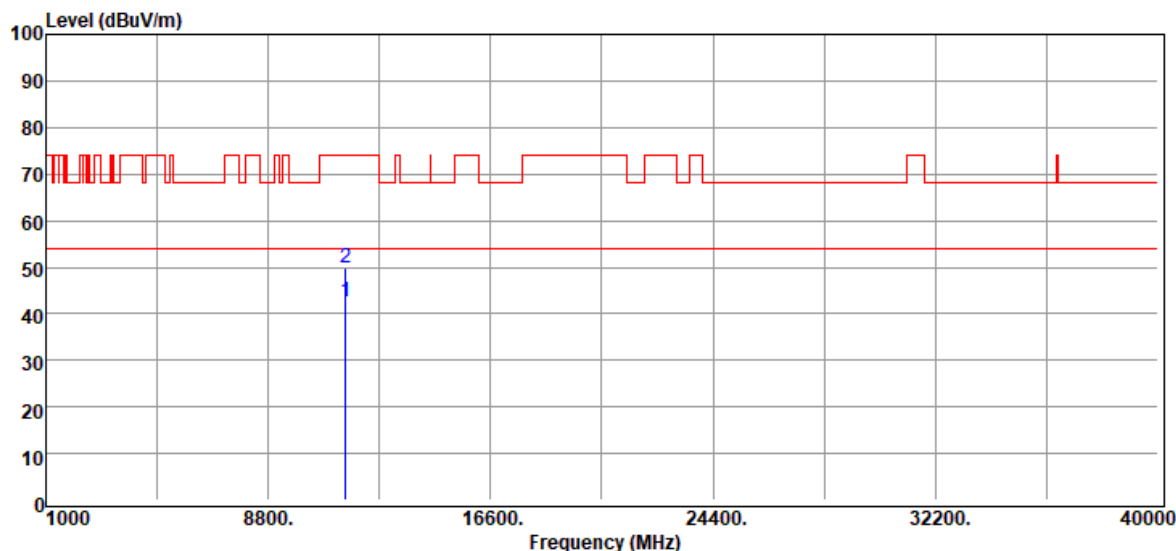
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 4
Test Frequency :5755 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.2/61
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
11510.00	Average	29.74	12.71	42.45	54.00	-11.55
11510.00	Peak	37.01	12.71	49.72	74.00	-24.28

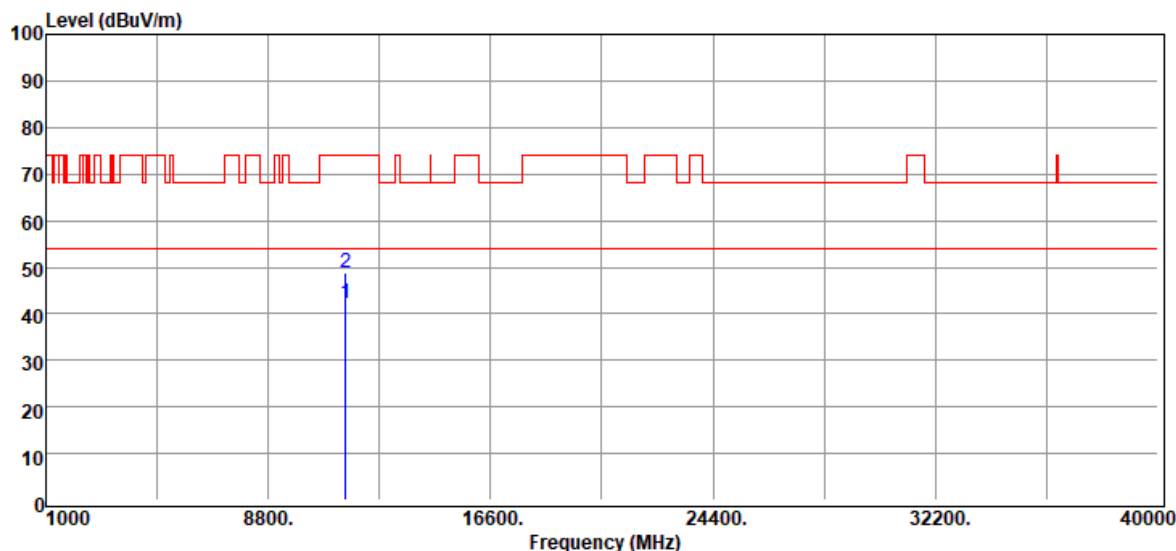
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 4
Test Frequency :5755 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.2/61
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
11510.00	Average	29.56	12.71	42.27	54.00	-11.73
11510.00	Peak	36.02	12.71	48.73	74.00	-25.27

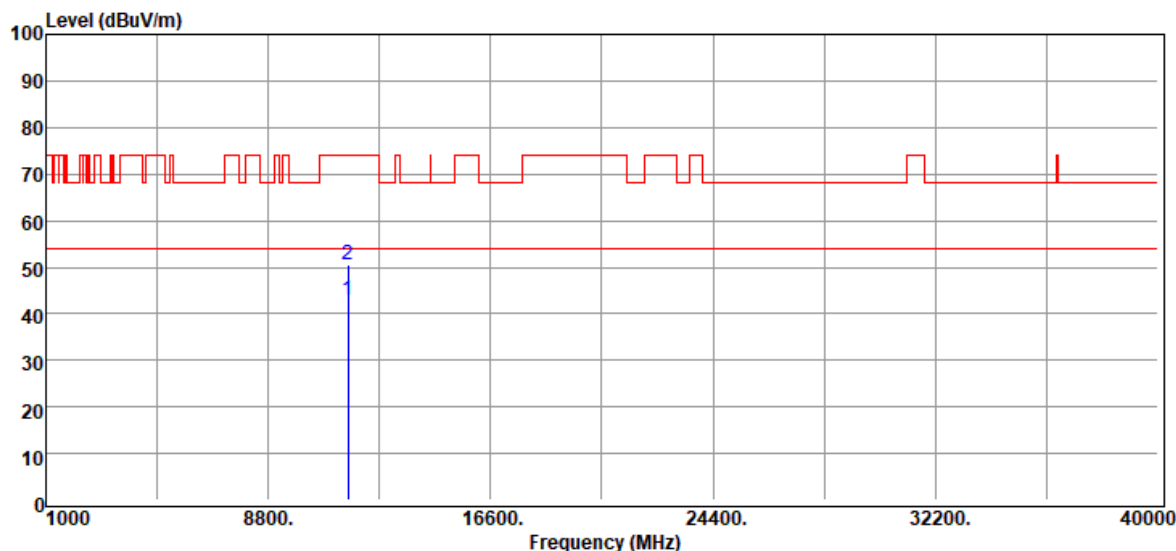
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 4
Test Frequency :5795 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-23
Temp./Humi. :22.9/63
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
11590.00	Average	30.77	12.23	43.00	54.00	-11.00
11590.00	Peak	38.29	12.23	50.52	74.00	-23.48

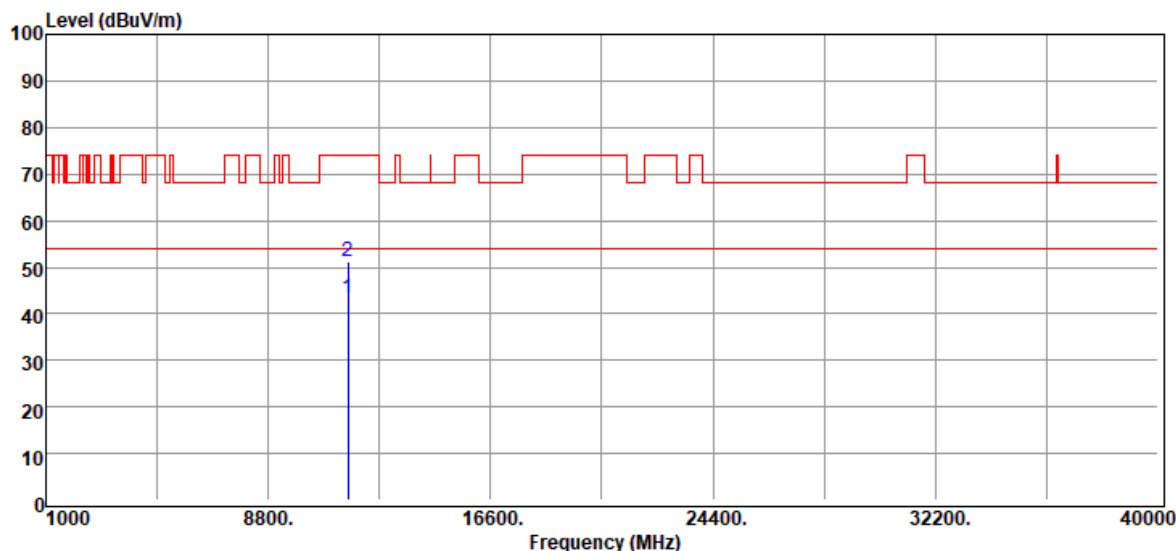
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 4
Test Frequency :5795 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-23
Temp./Humi. :22.9/63
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
11590.00	Average	31.17	12.23	43.40	54.00	-10.60
11590.00	Peak	38.97	12.23	51.20	74.00	-22.80

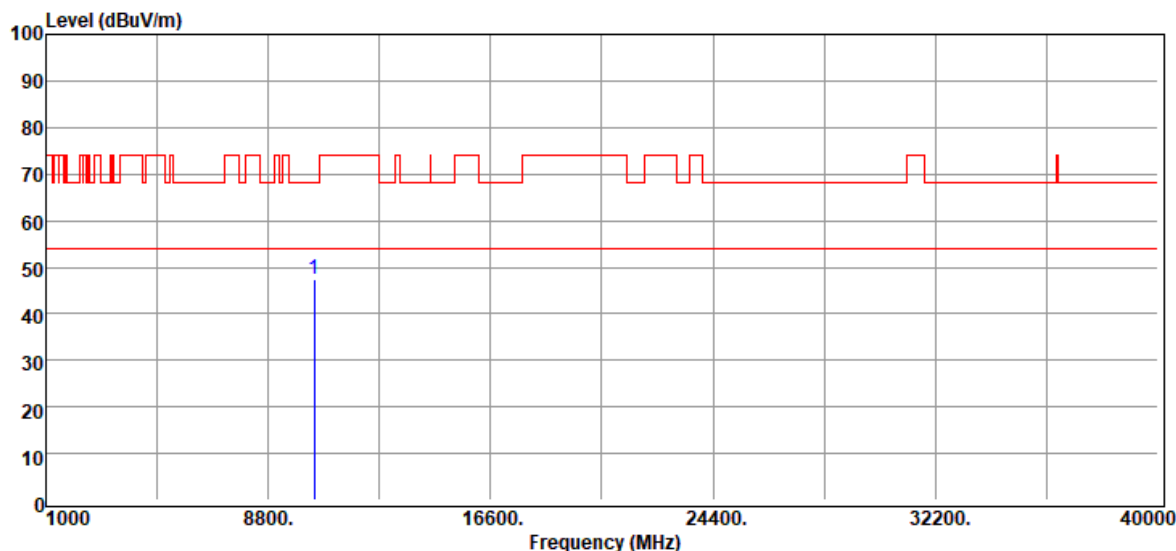
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 1
Test Frequency :5210 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.4/63
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
10420.00	Peak	36.52	10.84	47.36	68.20	-20.84

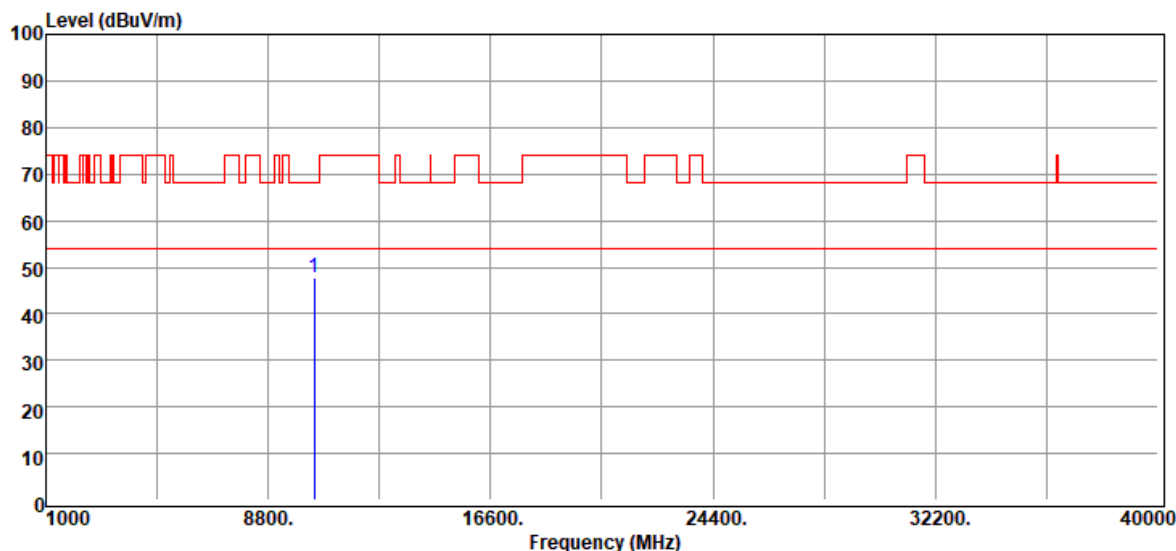
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 1
Test Frequency :5210 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.4/63
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
10420.00	Peak	36.78	10.84	47.62	68.20	-20.58

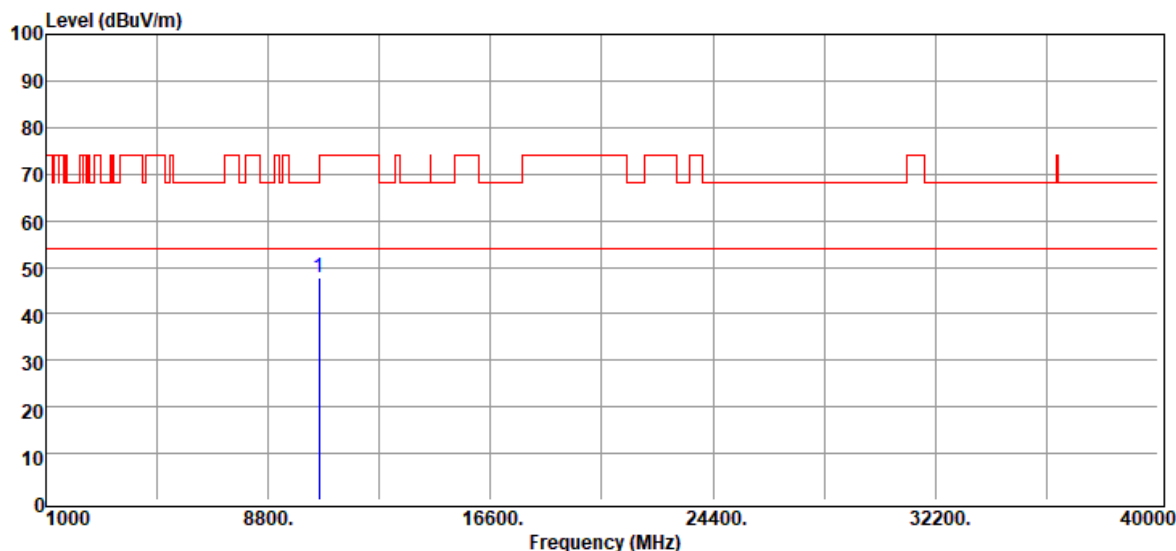
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.4/63
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
10580.00	Peak	36.62	11.06	47.68	68.20	-20.52

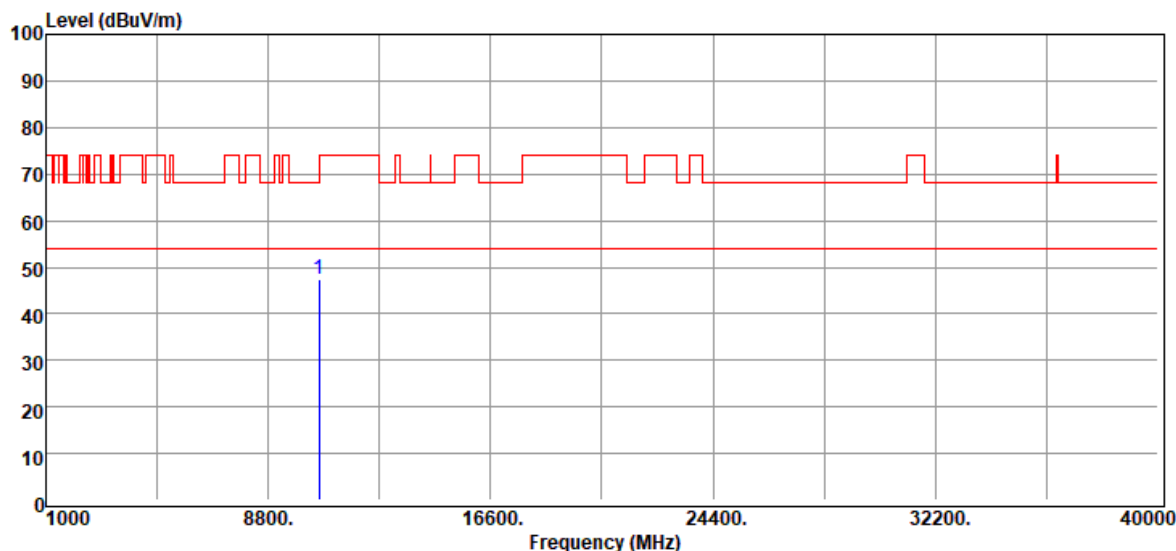
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.4/63
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
10580.00	Peak	36.34	11.06	47.40	68.20	-20.80

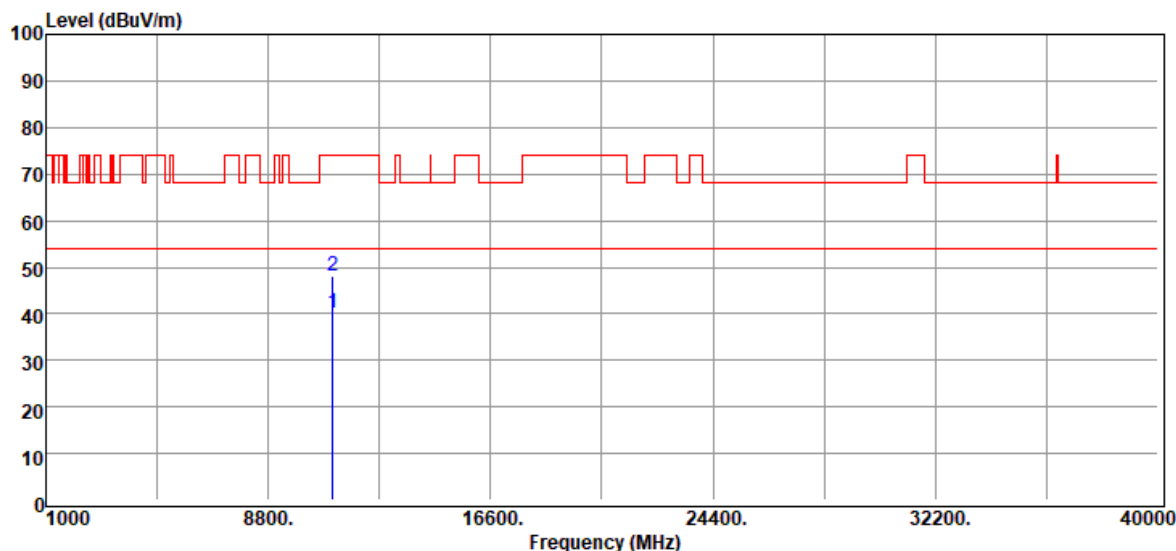
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 3
Test Frequency :5530 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.4/63
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
11060.00	Average	30.14	10.10	40.24	54.00	-13.76
11060.00	Peak	37.83	10.10	47.93	74.00	-26.07

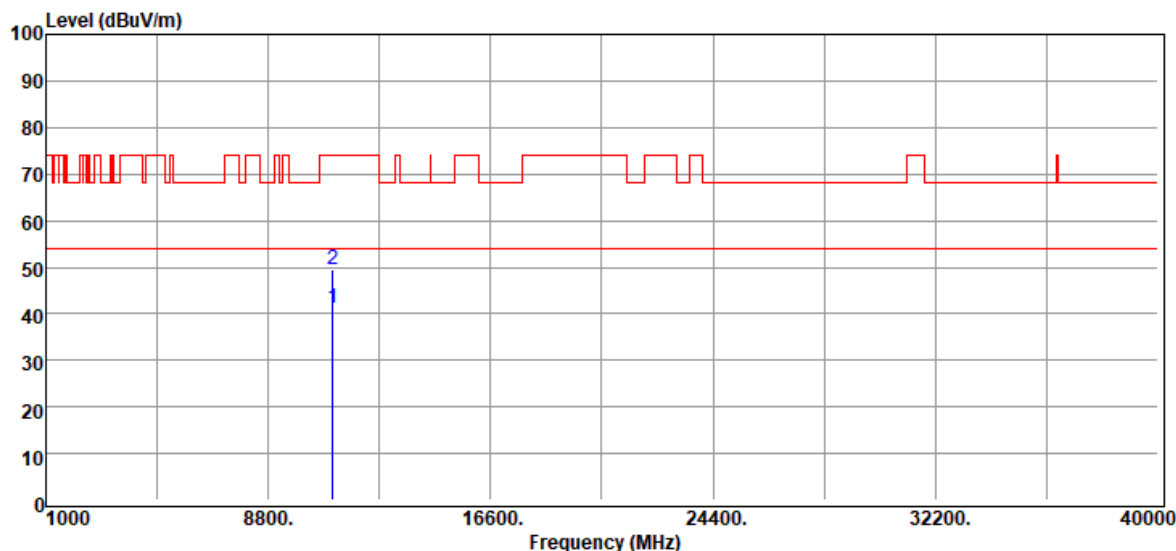
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 3
Test Frequency :5530 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.4/63
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
11060.00	Average	31.04	10.10	41.14	54.00	-12.86
11060.00	Peak	39.47	10.10	49.57	74.00	-24.43

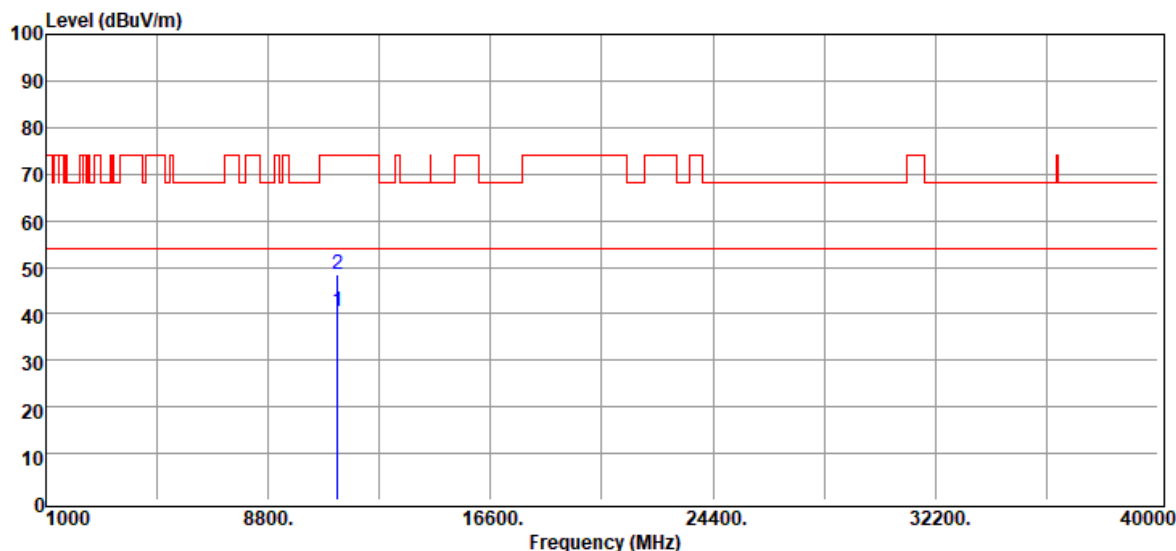
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 3
Test Frequency :5610 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.4/63
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
11220.00	Average	29.89	10.47	40.36	54.00	-13.64
11220.00	Peak	38.01	10.47	48.48	74.00	-25.52

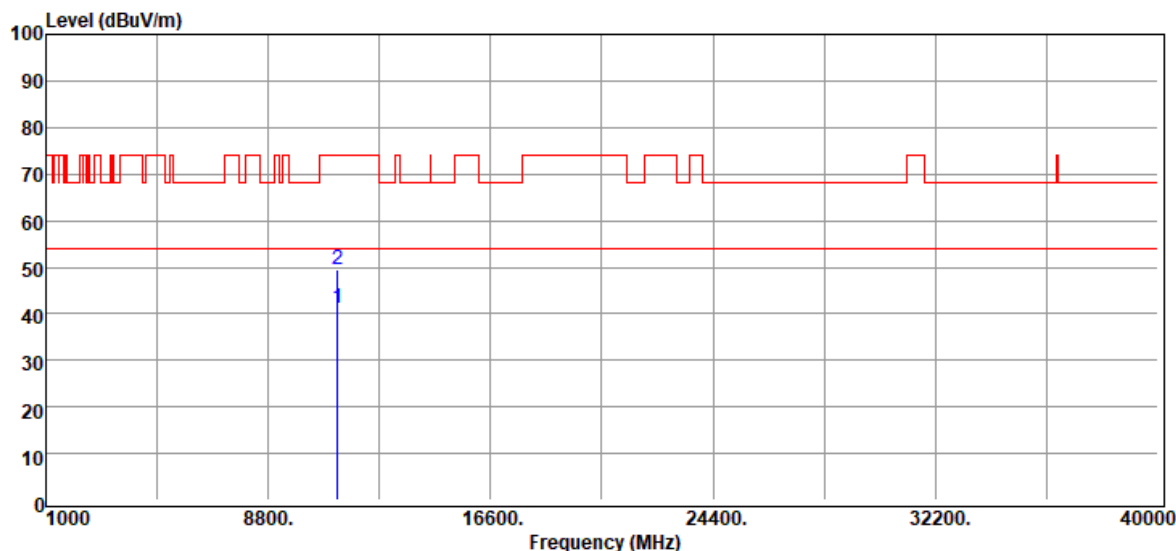
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 3
Test Frequency :5610 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.4/63
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
11220.00	Average	30.65	10.47	41.12	54.00	-12.88
11220.00	Peak	39.15	10.47	49.62	74.00	-24.38

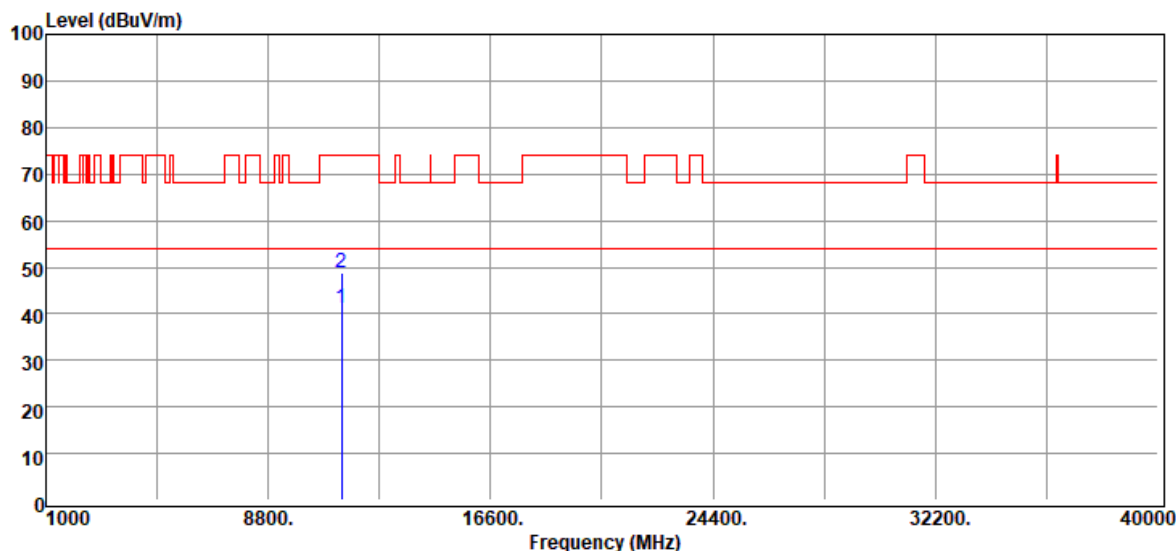
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 3
Test Frequency :5690 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-02
Temp./Humi. :23.4/63
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
11380.00	Average	30.12	10.95	41.07	54.00	-12.93
11380.00	Peak	38.00	10.95	48.95	74.00	-25.05

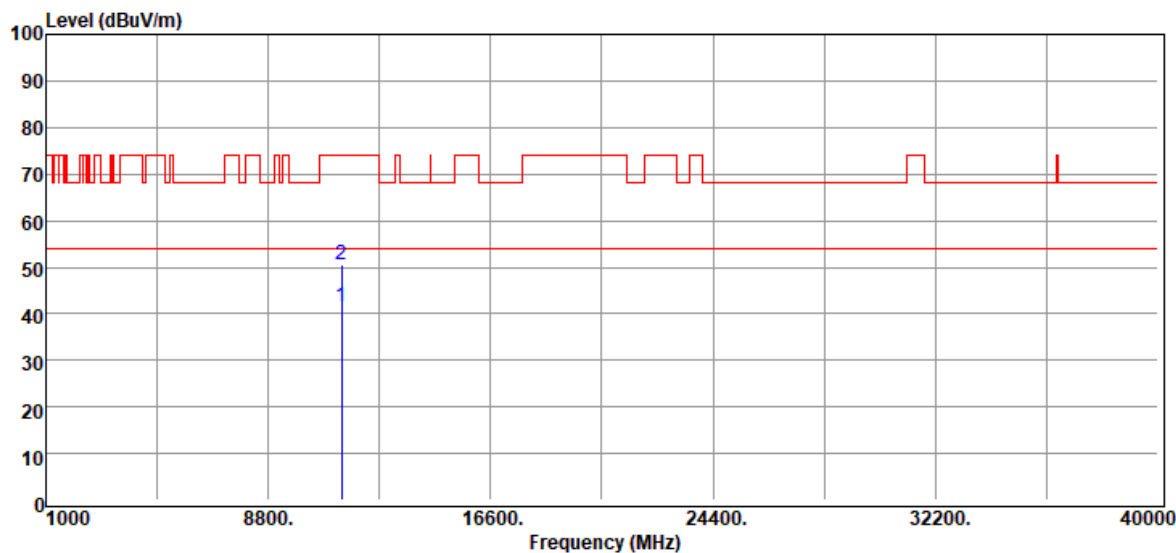
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Report Number :ER/2020/80122
 Operation Mode :802.11ac80 / Band 3
 Test Frequency :5690 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-02
 Temp./Humi. :23.4/63
 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
11380.00	Average	30.74	10.95	41.69	54.00	-12.31
11380.00	Peak	39.45	10.95	50.40	74.00	-23.60

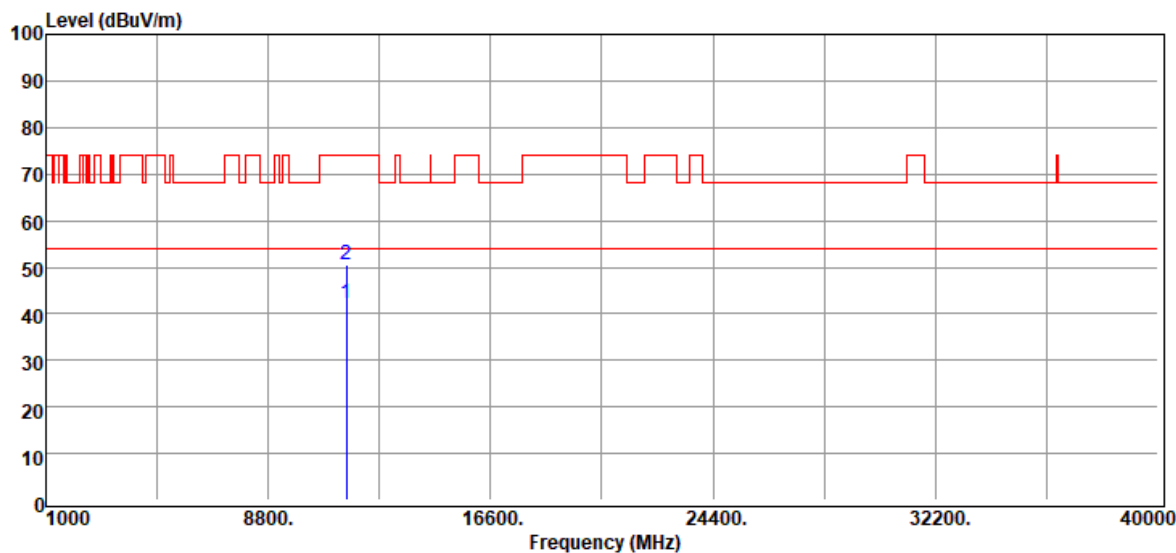
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Report Number :ER/2020/80122
 Operation Mode :802.11ac80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-23
 Temp./Humi. :22.9/63
 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
11550.00	Average	29.80	12.46	42.26	54.00	-11.74
11550.00	Peak	37.89	12.46	50.35	74.00	-23.65

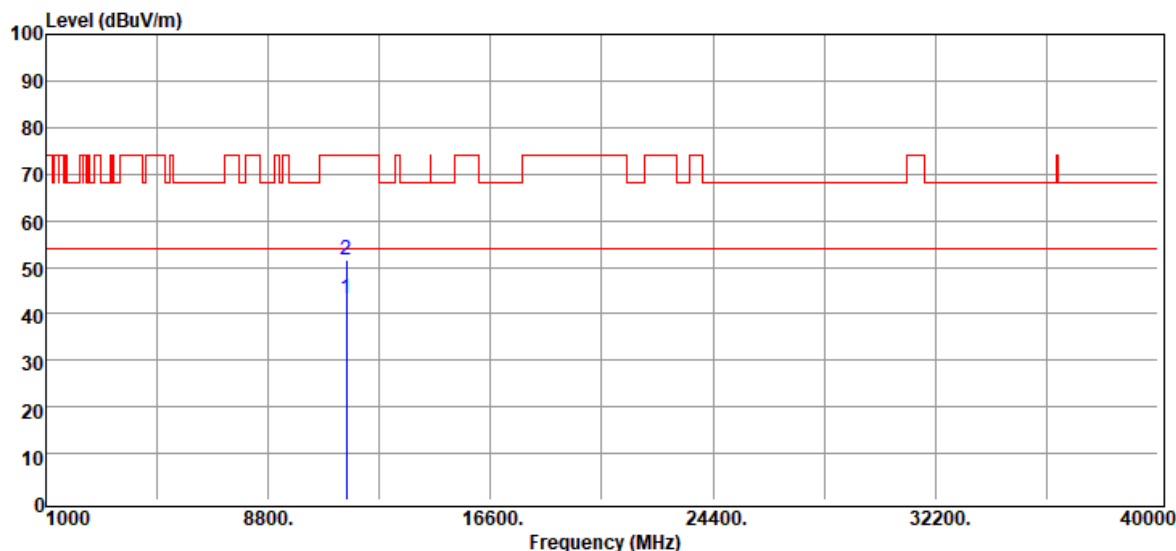
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Report Number :ER/2020/80122
 Operation Mode :802.11ac80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-23
 Temp./Humi. :22.9/63
 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
11550.00	Average	30.90	12.46	43.36	54.00	-10.64
11550.00	Peak	39.08	12.46	51.54	74.00	-22.46

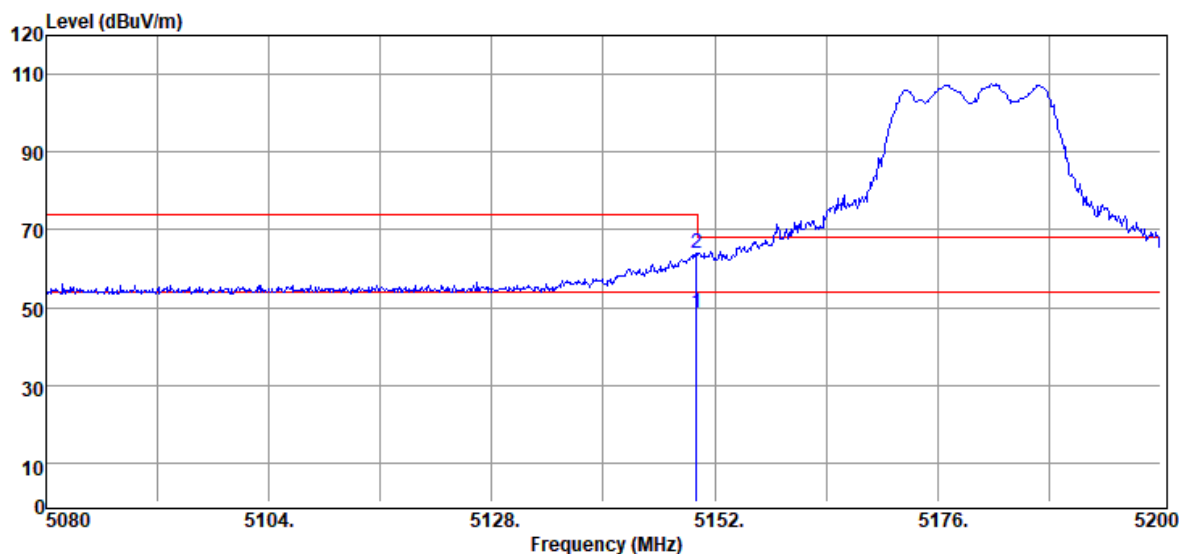
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11.7.3 Band edge falling to restricted band

Report Number	:ER/2020/80122	Test Site	:966 Chamber D
Operation Mode	:802.11a / Band 1	Test Date	:2020-09-22
Test Frequency	:5180 MHz	Temp./Humi.	:22.2/63
Test Mode	:BE CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 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
5150.00	Average	48.11	0.45	48.56	54.00	-5.44
5150.00	Peak	63.47	0.45	63.92	74.00	-10.08

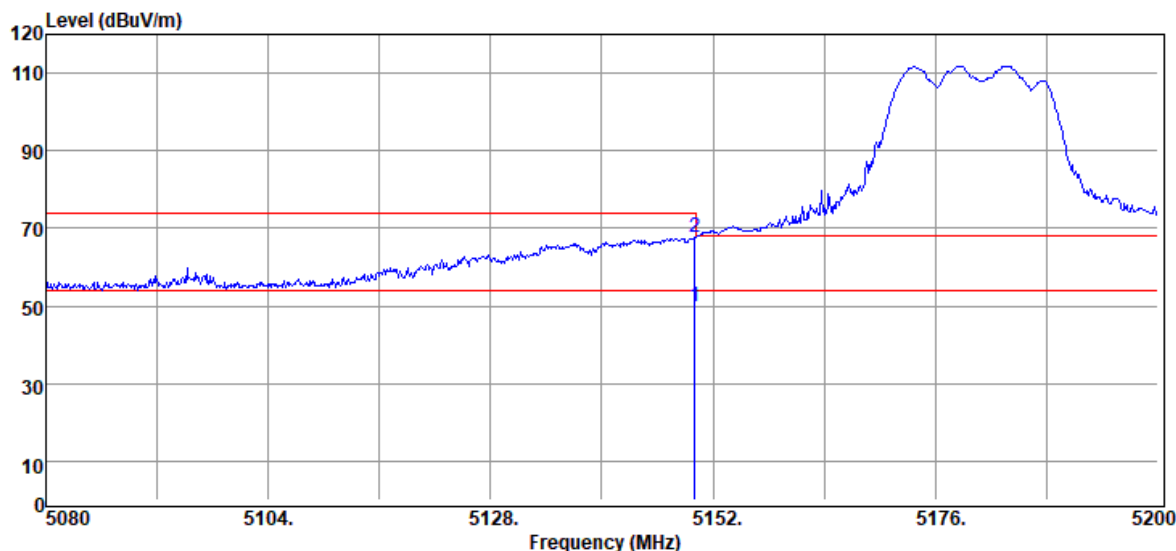
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-22
Temp./Humi. :22.2/63
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
5150.00	Average	49.20	0.45	49.65	54.00	-4.35
5150.00	Peak	67.39	0.45	67.84	74.00	-6.16

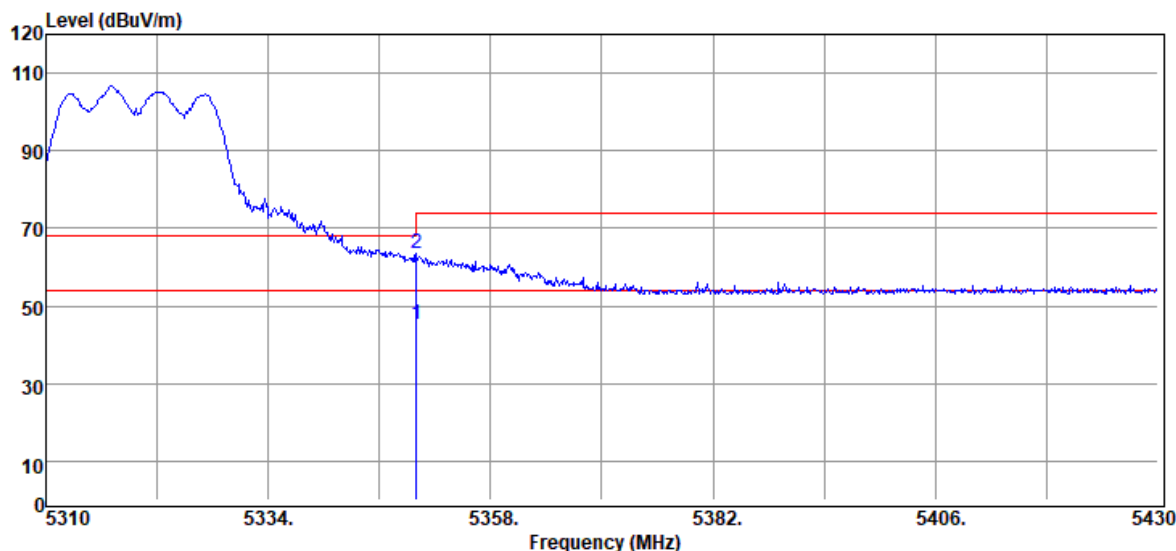
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-22
Temp./Humi. :22.2/63
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
5350.00	Average	45.11	0.07	45.18	54.00	-8.82
5350.00	Peak	63.43	0.07	63.50	74.00	-10.50

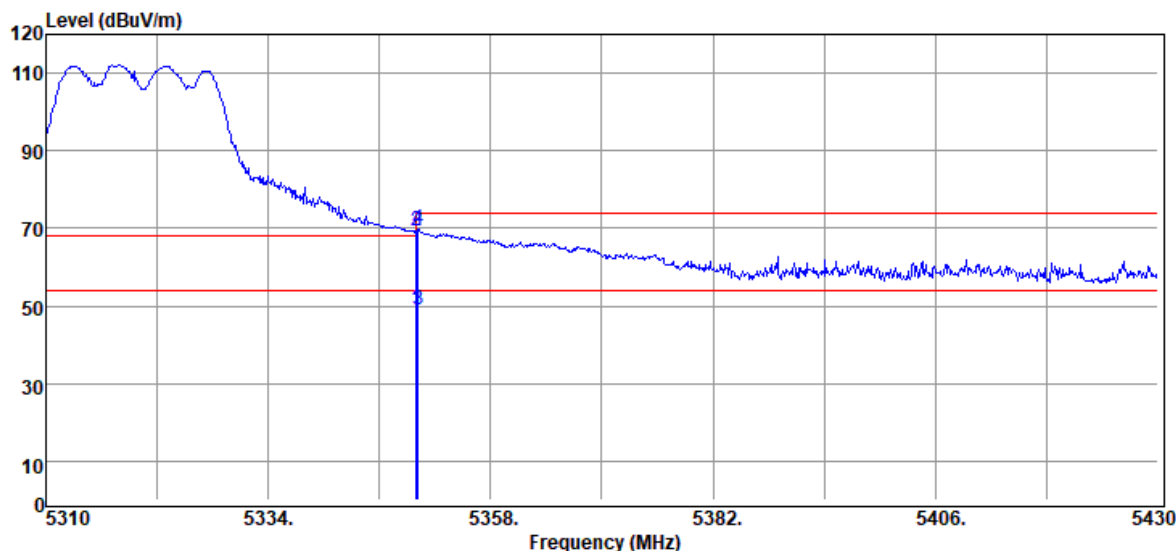
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-22
Temp./Humi. :22.2/63
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
5350.00	Average	49.11	0.07	49.18	54.00	-4.82
5350.00	Peak	69.32	0.07	69.39	74.00	-4.61
5350.20	Average	48.88	0.07	48.95	54.00	-5.05
5350.20	Peak	69.88	0.07	69.95	74.00	-4.05

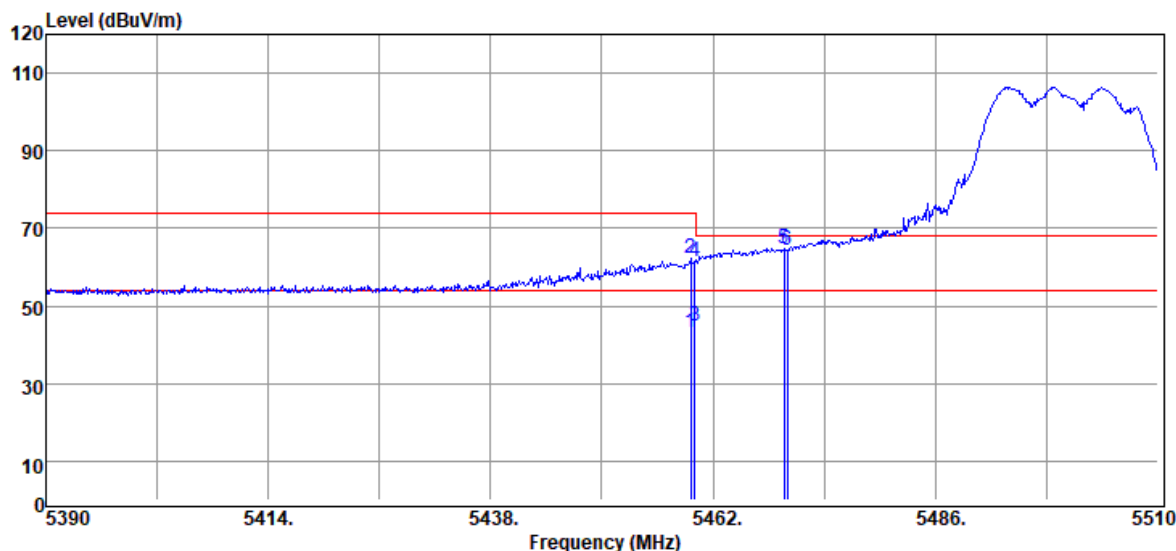
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-07
Temp./Humi. :23.4/57
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
5459.60	Average	42.15	1.18	43.33	54.00	-10.67
5459.60	Peak	61.03	1.18	62.21	74.00	-11.79
5460.00	Average	43.75	1.18	44.93	54.00	-9.07
5460.00	Peak	60.37	1.18	61.55	74.00	-12.45
5469.68	Peak	63.40	1.25	64.65	68.20	-3.55
5470.00	Peak	63.20	1.26	64.46	68.20	-3.74

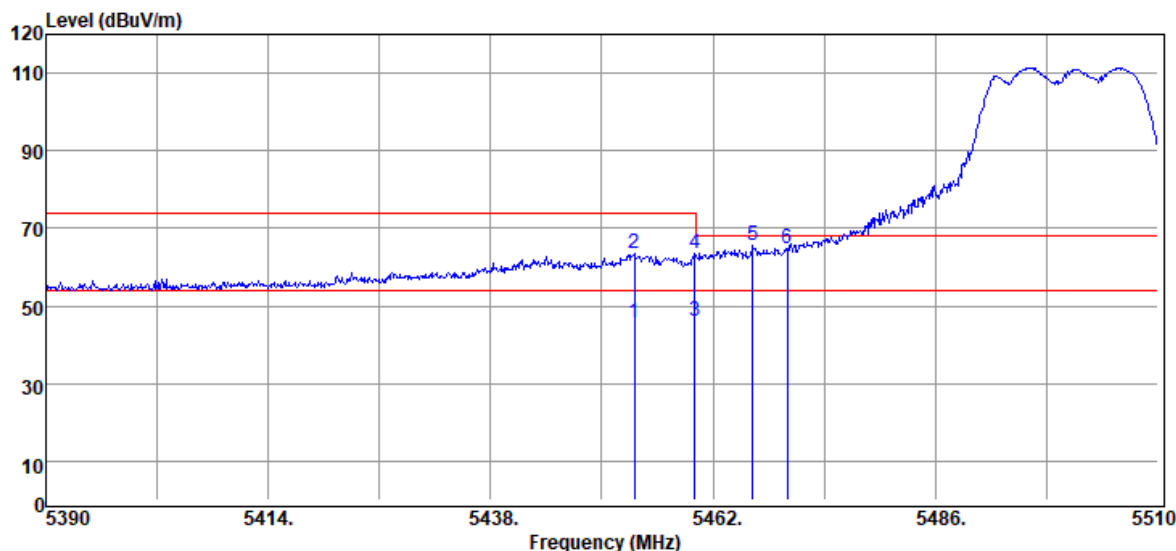
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-07
Temp./Humi. :23.4/57
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
5453.48	Average	44.54	1.14	45.68	54.00	-8.32
5453.48	Peak	62.46	1.14	63.60	74.00	-10.40
5460.00	Average	44.99	1.18	46.17	54.00	-7.83
5460.00	Peak	62.28	1.18	63.46	74.00	-10.54
5466.32	Peak	64.49	1.23	65.72	68.20	-2.48
5470.00	Peak	63.58	1.26	64.84	68.20	-3.36

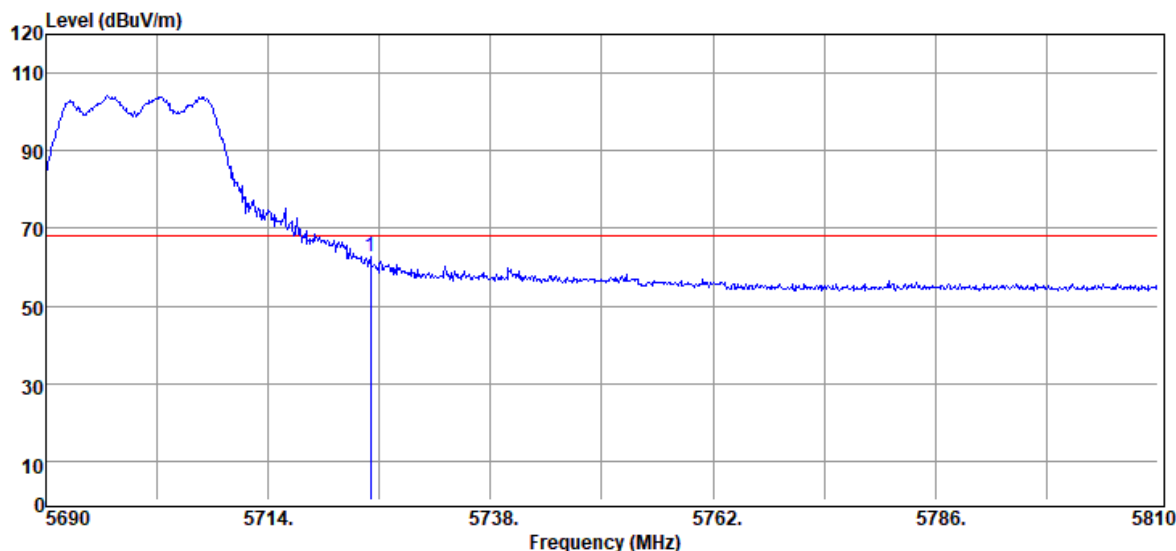
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-07
Temp./Humi. :23.6/62
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
5725.00	Peak	61.72	0.98	62.70	68.20	-5.50

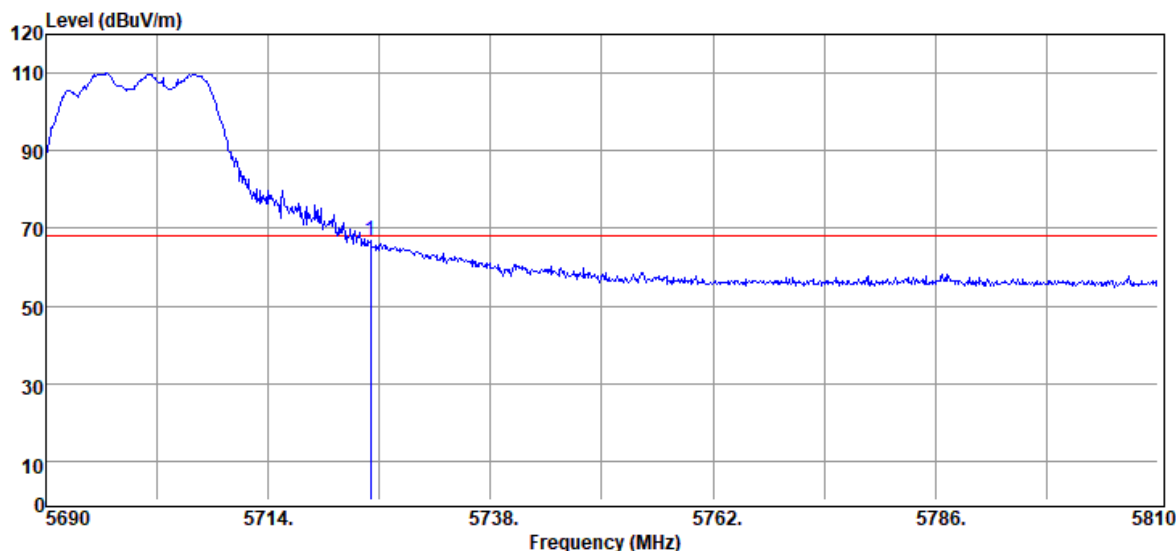
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-07
Temp./Humi. :23.6/62
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
5725.00	Peak	65.72	0.98	66.70	68.20	-1.50

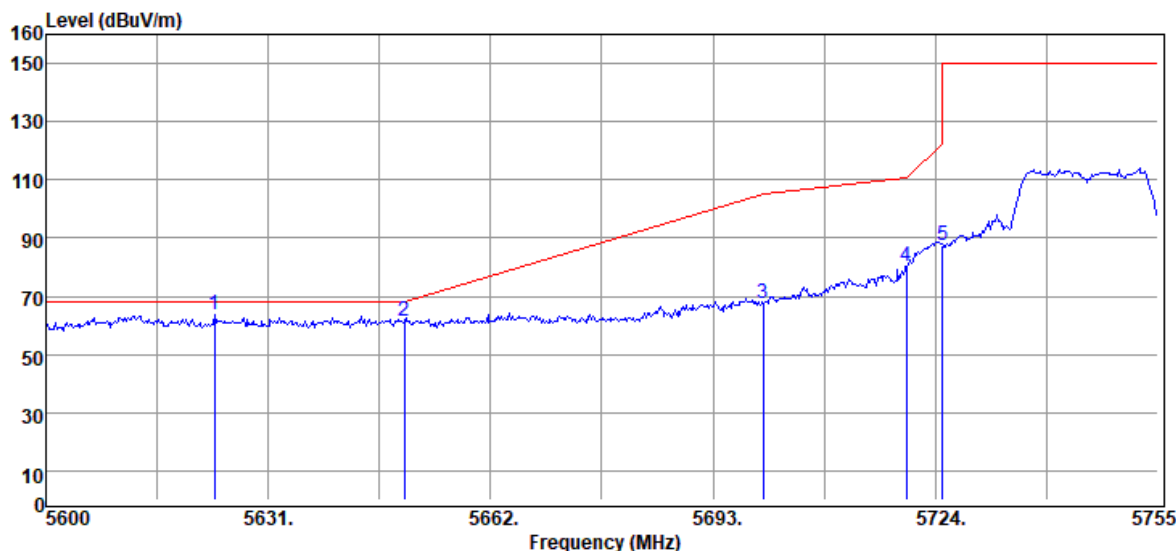
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-22
Temp./Humi. :22.2/63
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
5623.50	Peak	62.76	0.68	63.44	68.20	-4.76
5650.00	Peak	60.67	0.79	61.46	68.20	-6.74
5700.00	Peak	66.65	1.00	67.65	105.20	-37.55
5720.00	Peak	79.42	0.99	80.41	110.80	-30.39
5725.00	Peak	86.52	0.98	87.50	122.20	-34.70

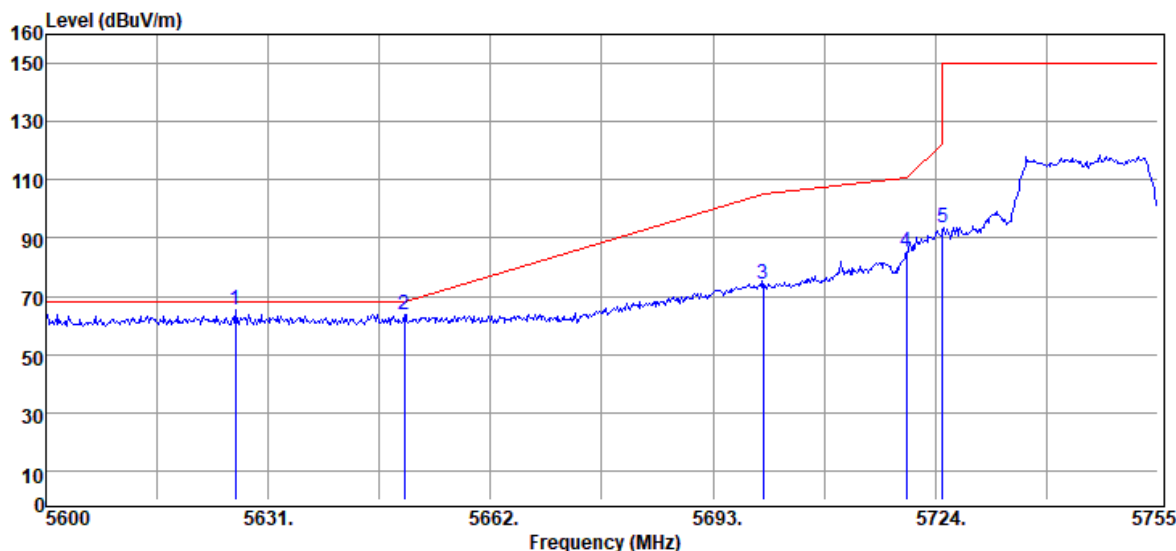
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Report Number :ER/2020/80122
 Operation Mode :802.11a / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-22
 Temp./Humi. :22.2/63
 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
5626.46	Peak	64.49	0.69	65.18	68.20	-3.02
5650.00	Peak	62.75	0.79	63.54	68.20	-4.66
5700.00	Peak	73.25	1.00	74.25	105.20	-30.95
5720.00	Peak	84.40	0.99	85.39	110.80	-25.41
5725.00	Peak	92.81	0.98	93.79	122.20	-28.41

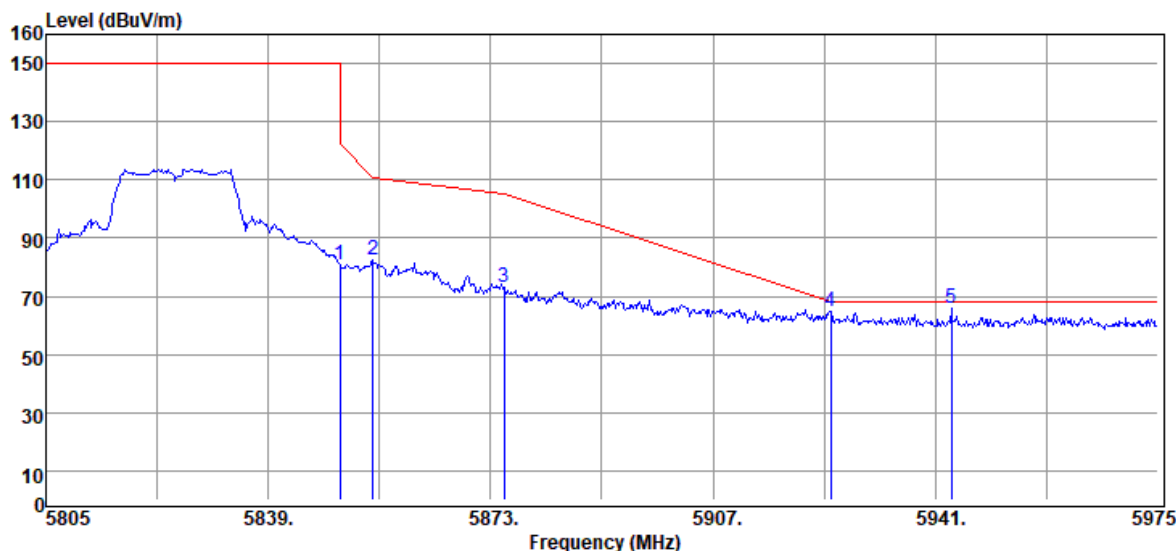
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Report Number :ER/2020/80122
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-22
Temp./Humi. :22.2/63
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
5850.00	Peak	79.48	1.13	80.61	122.20	-41.59
5855.00	Peak	81.27	1.15	82.42	110.80	-28.38
5875.00	Peak	71.77	1.26	73.03	105.20	-32.17
5925.00	Peak	63.53	1.27	64.80	68.20	-3.40
5943.40	Peak	64.56	1.18	65.74	68.20	-2.46

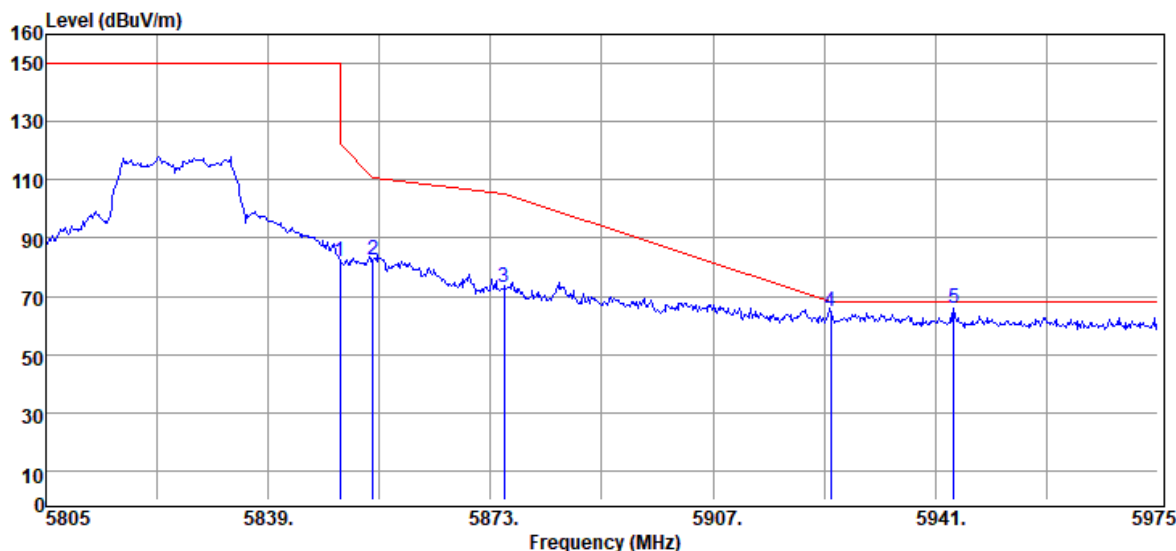
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Report Number :ER/2020/80122
 Operation Mode :802.11a / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-22
 Temp./Humi. :22.2/63
 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
5850.00	Peak	81.00	1.13	82.13	122.20	-40.07
5855.00	Peak	81.07	1.15	82.22	110.80	-28.58
5875.00	Peak	71.87	1.26	73.13	105.20	-32.07
5925.00	Peak	63.40	1.27	64.67	68.20	-3.53
5943.80	Peak	64.81	1.18	65.99	68.20	-2.21

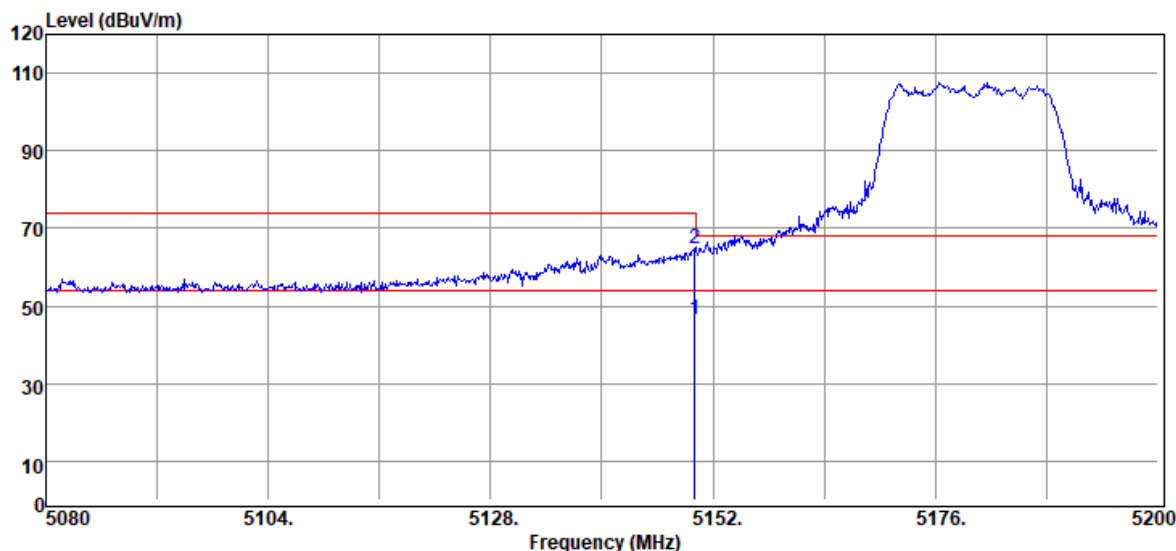
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-22
Temp./Humi. :22.3/62
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
5150.00	Average	46.11	0.45	46.56	54.00	-7.44
5150.00	Peak	64.43	0.45	64.88	74.00	-9.12

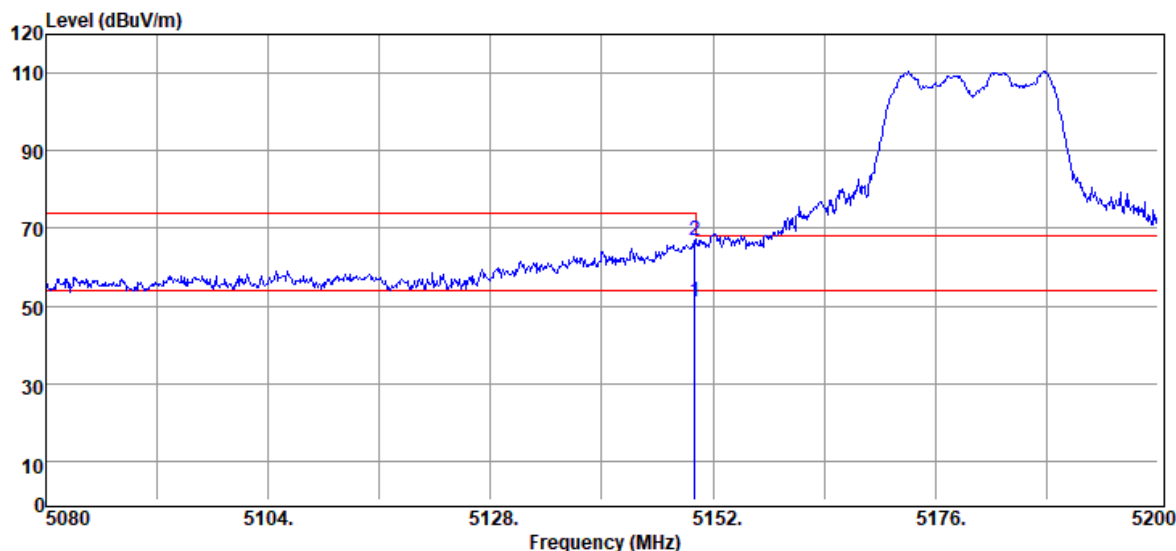
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Report Number :ER/2020/80122
 Operation Mode :802.11n20 / Band 1
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-22
 Temp./Humi. :22.3/62
 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
5150.00	Average	50.67	0.45	51.12	54.00	-2.88
5150.00	Peak	66.20	0.45	66.65	74.00	-7.35

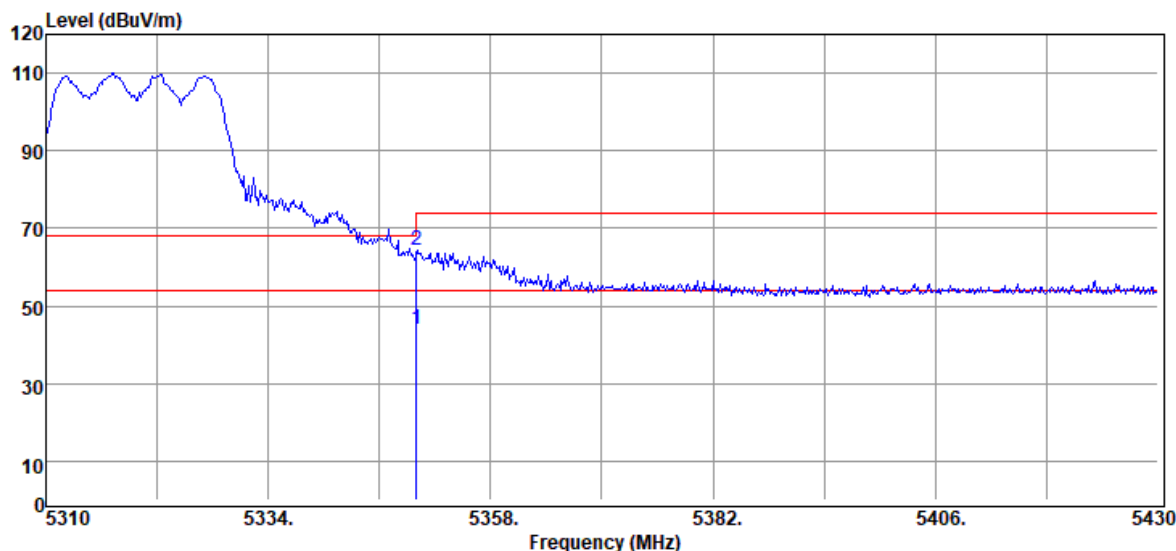
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-22
Temp./Humi. :22.3/62
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
5350.00	Average	43.82	0.07	43.89	54.00	-10.11
5350.00	Peak	64.10	0.07	64.17	74.00	-9.83

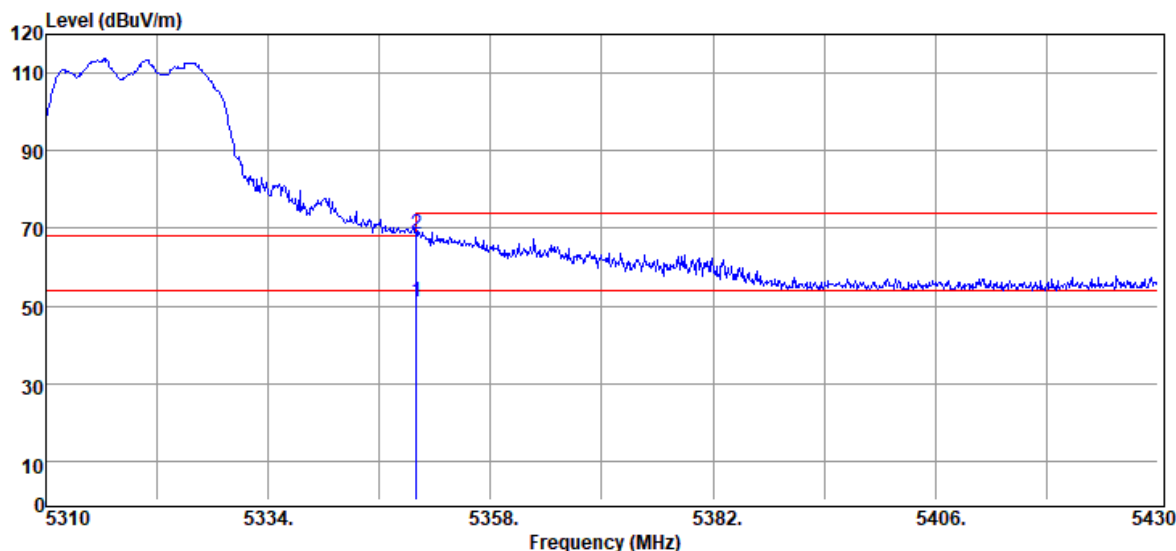
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-22
Temp./Humi. :22.3/62
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
5350.00	Average	51.20	0.07	51.27	54.00	-2.73
5350.00	Peak	68.46	0.07	68.53	74.00	-5.47

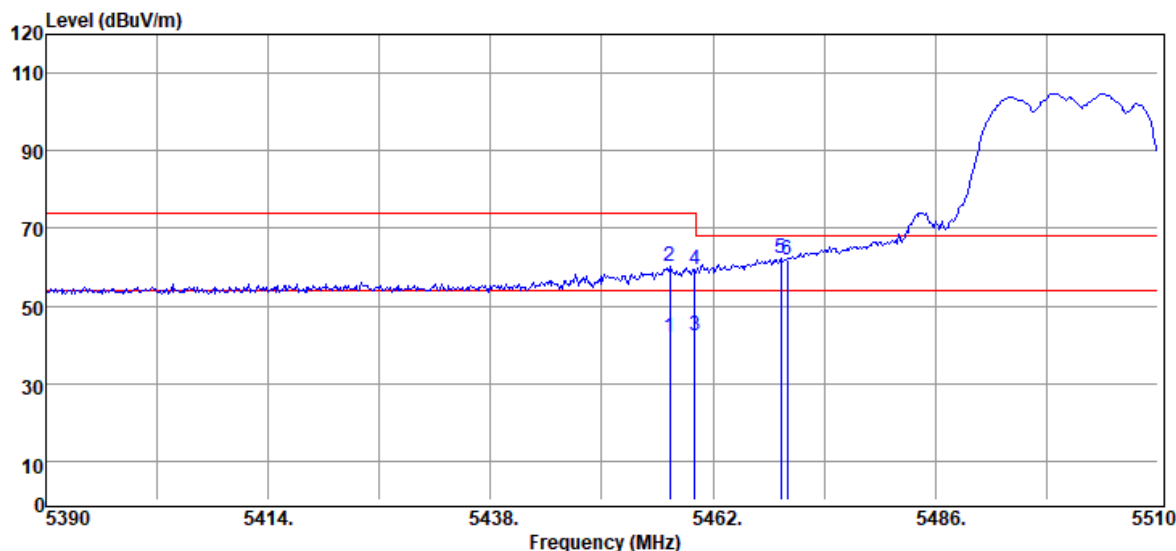
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-07
Temp./Humi. :24.4/57
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
5457.35	Average	40.63	1.17	41.80	54.00	-12.20
5457.35	Peak	58.90	1.17	60.07	74.00	-13.93
5460.00	Average	41.11	1.18	42.29	54.00	-11.71
5460.00	Peak	58.13	1.18	59.31	74.00	-14.69
5469.35	Peak	60.87	1.25	62.12	68.20	-6.08
5470.00	Peak	60.45	1.26	61.71	68.20	-6.49

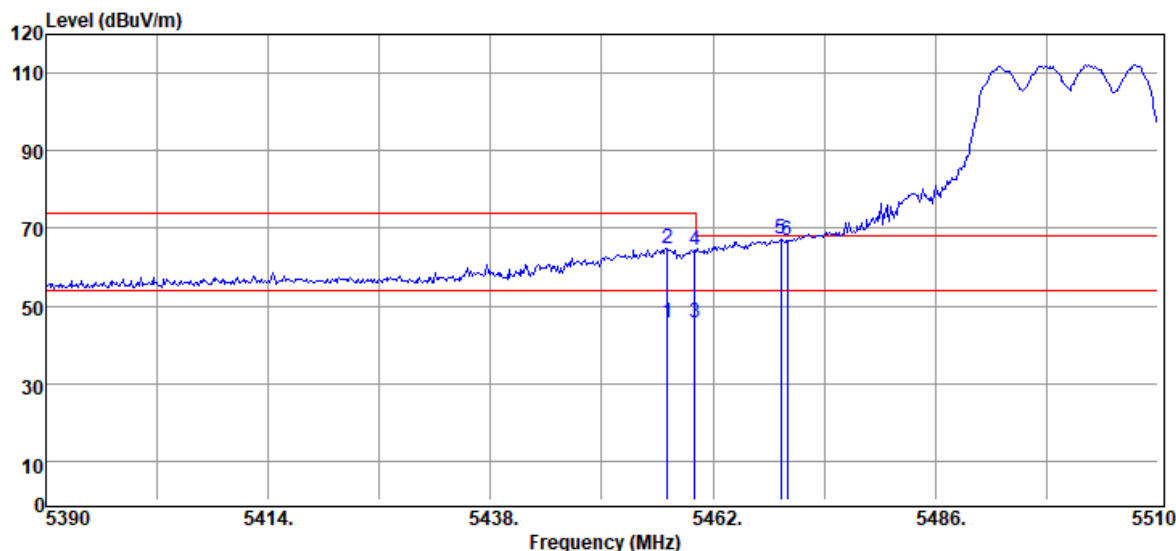
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-07
Temp./Humi. :24.4/57
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
5457.05	Average	44.59	1.16	45.75	54.00	-8.25
5457.05	Peak	63.60	1.16	64.76	74.00	-9.24
5460.00	Average	44.47	1.18	45.65	54.00	-8.35
5460.00	Peak	62.97	1.18	64.15	74.00	-9.85
5469.35	Peak	65.85	1.25	67.10	68.20	-1.10
5470.00	Peak	65.59	1.26	66.85	68.20	-1.35

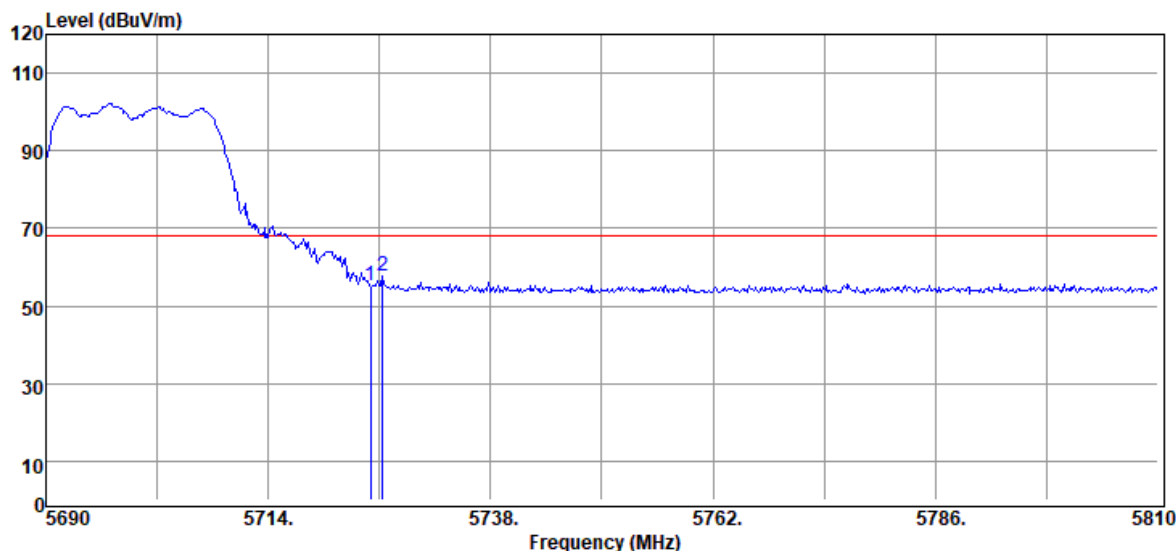
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-07
Temp./Humi. :24.5/58
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
5725.00	Peak	54.44	0.98	55.42	68.20	-12.78
5726.30	Peak	56.52	0.99	57.51	68.20	-10.69

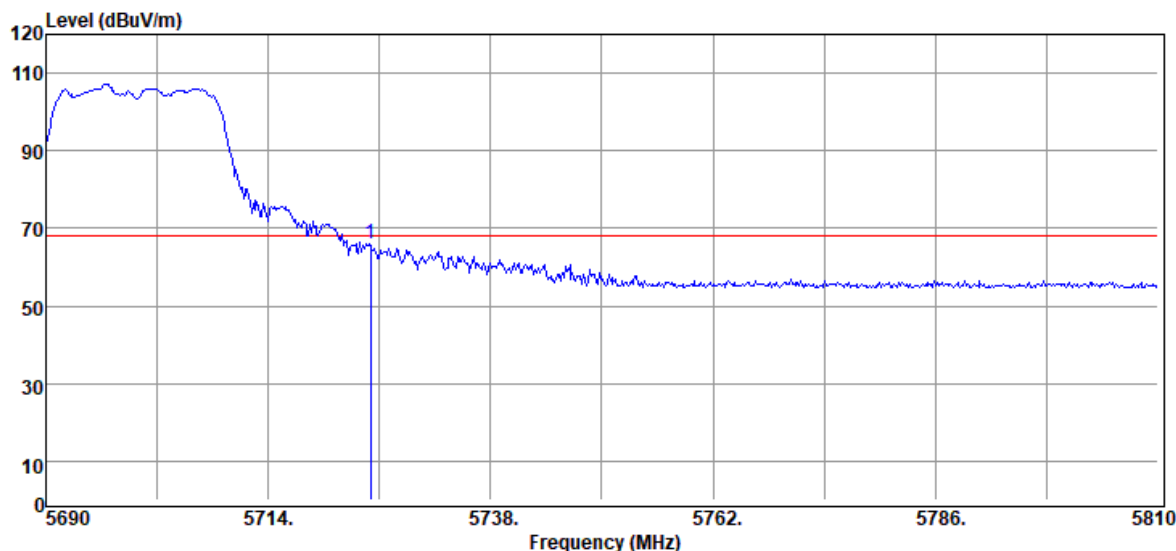
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-07
Temp./Humi. :24.5/58
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
5725.00	Peak	65.14	0.98	66.12	68.20	-2.08

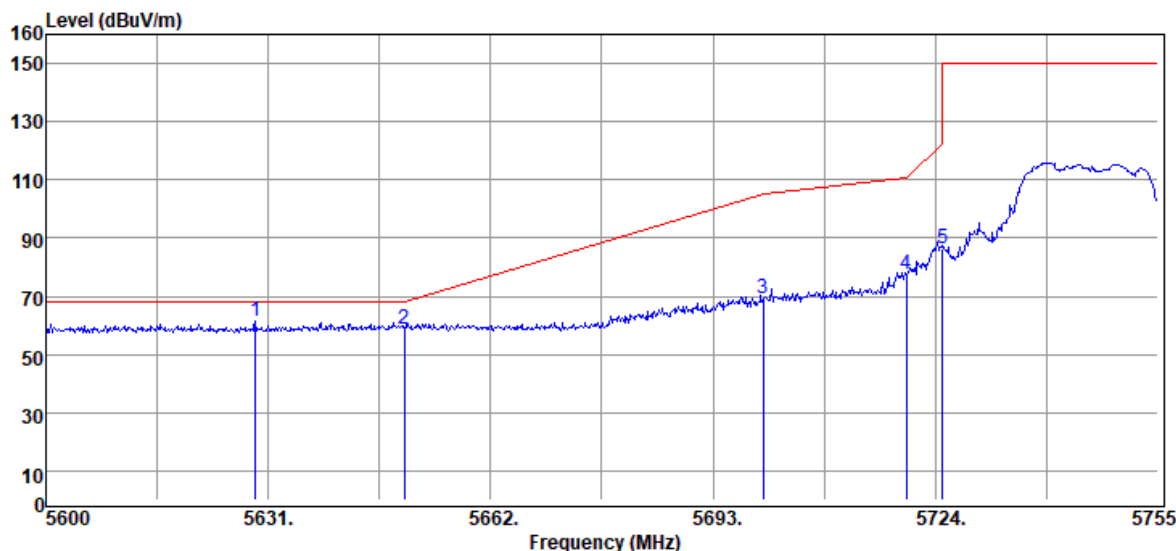
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-22
Temp./Humi. :22.3/62
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
5629.21	Peak	60.48	0.71	61.19	68.20	-7.01
5650.00	Peak	57.88	0.79	58.67	68.20	-9.53
5700.00	Peak	68.40	1.00	69.40	105.20	-35.80
5720.00	Peak	76.75	0.99	77.74	110.80	-33.06
5725.00	Peak	85.15	0.98	86.13	122.20	-36.07

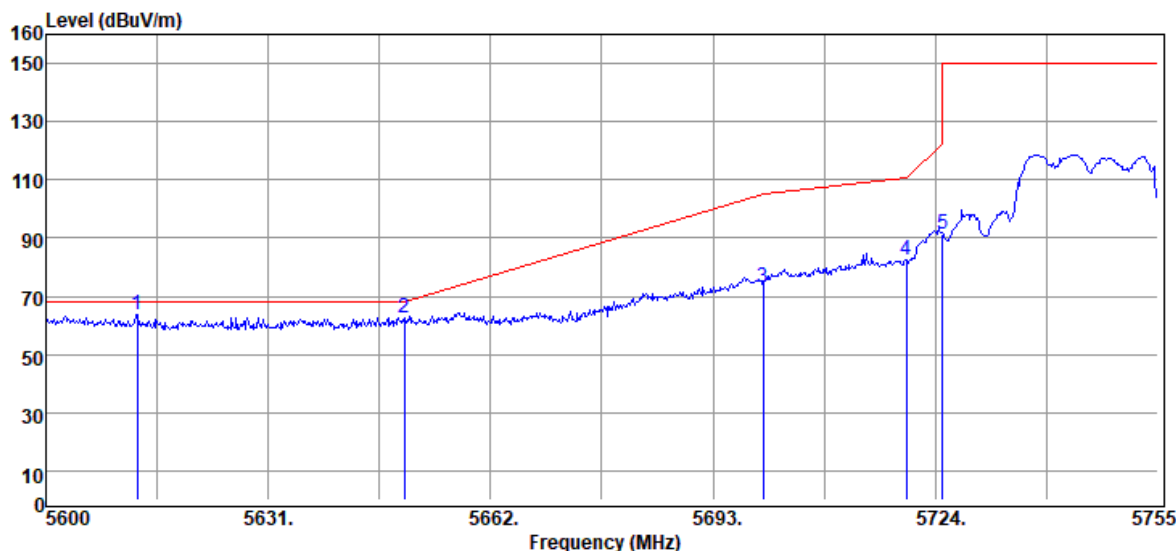
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Report Number :ER/2020/80122
 Operation Mode :802.11n20 / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-22
 Temp./Humi. :22.3/62
 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
5612.71	Peak	63.21	0.64	63.85	68.20	-4.35
5650.00	Peak	61.58	0.79	62.37	68.20	-5.83
5700.00	Peak	72.23	1.00	73.23	105.20	-31.97
5720.00	Peak	81.76	0.99	82.75	110.80	-28.05
5725.00	Peak	90.27	0.98	91.25	122.20	-30.95

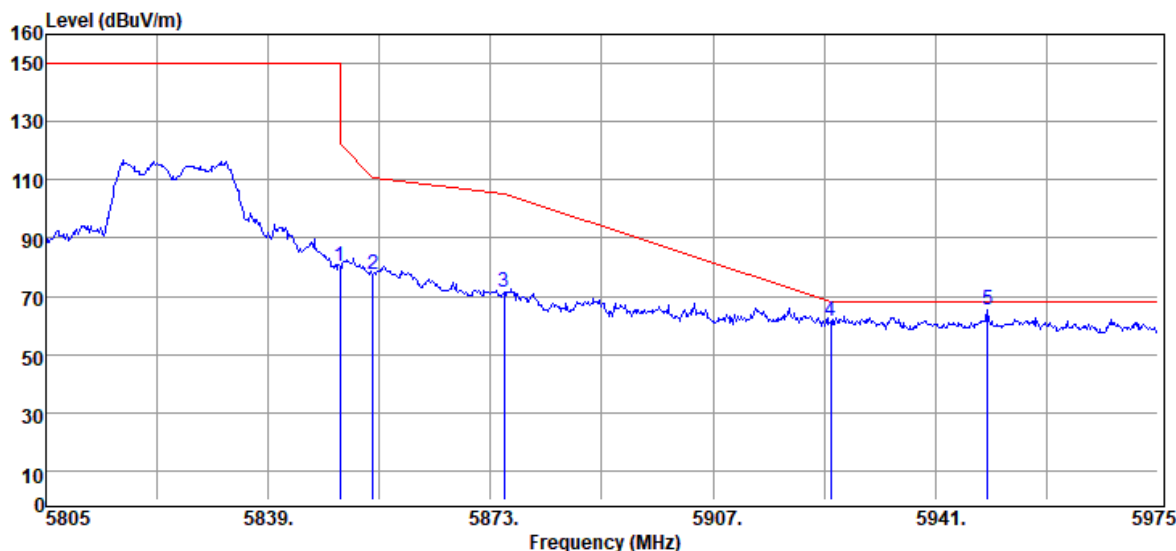
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-22
Temp./Humi. :22.3/62
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
5850.00	Peak	79.27	1.13	80.40	122.20	-41.80
5855.00	Peak	76.47	1.15	77.62	110.80	-33.18
5875.00	Peak	69.92	1.26	71.18	105.20	-34.02
5925.00	Peak	60.09	1.27	61.36	68.20	-6.84
5948.97	Peak	63.97	1.15	65.12	68.20	-3.08

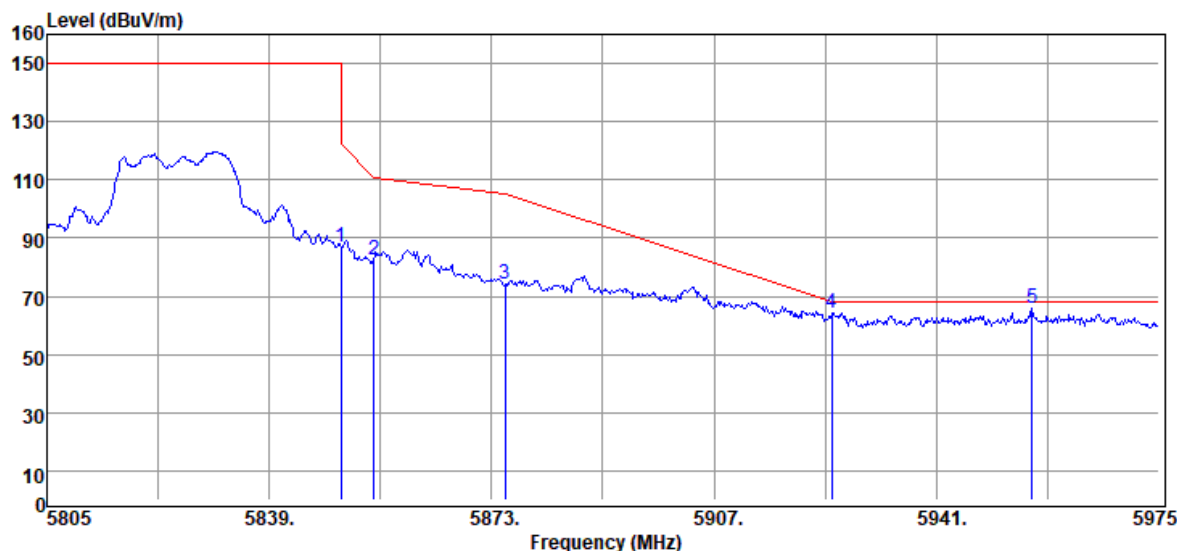
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Report Number :ER/2020/80122
Operation Mode :802.11n20 / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-22
Temp./Humi. :22.3/62
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
5850.00	Peak	85.64	1.13	86.77	122.20	-35.43
5855.00	Peak	81.21	1.15	82.36	110.80	-28.44
5875.00	Peak	72.79	1.26	74.05	105.20	-31.15
5925.00	Peak	63.06	1.27	64.33	68.20	-3.87
5955.62	Peak	64.85	1.09	65.94	68.20	-2.26

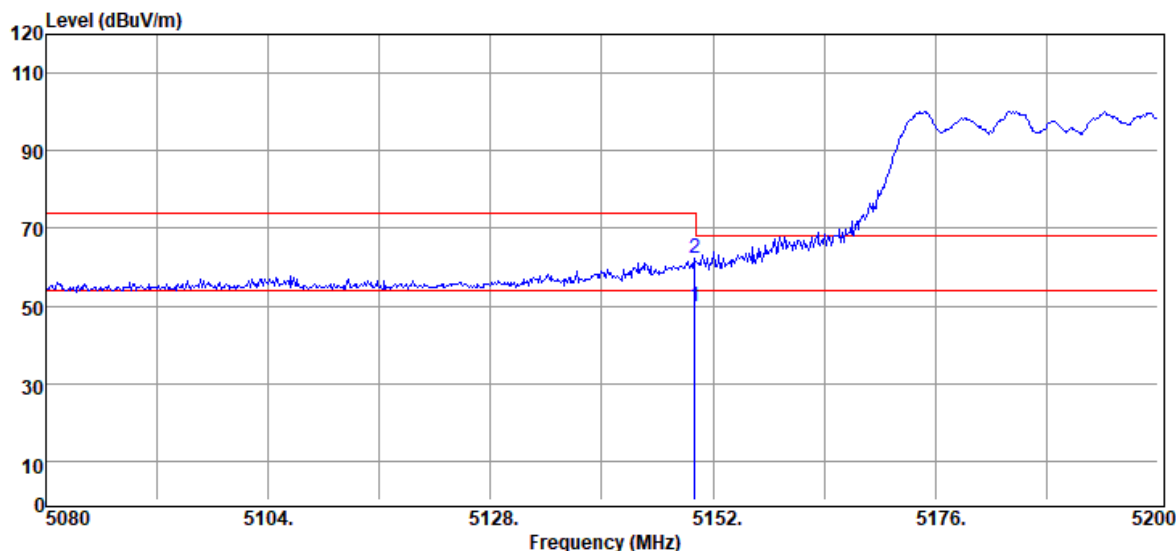
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 1
Test Frequency :5190 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-08
Temp./Humi. :23.5/65
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
5150.00	Average	49.49	0.45	49.94	54.00	-4.06
5150.00	Peak	61.76	0.45	62.21	74.00	-11.79

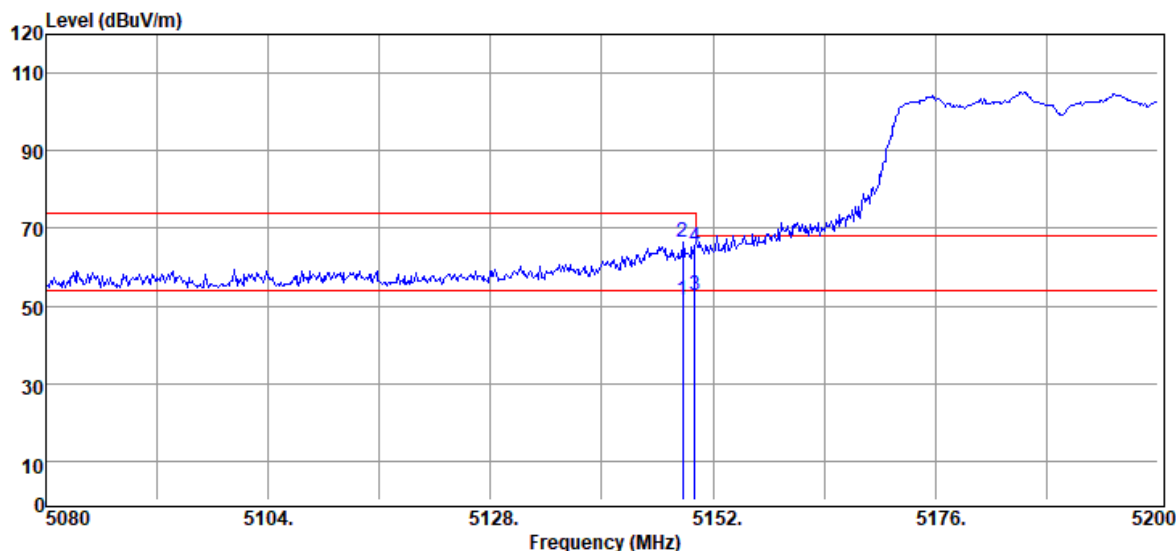
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 1
Test Frequency :5190 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-08
Temp./Humi. :23.5/65
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
5148.74	Average	51.17	0.44	51.61	54.00	-2.39
5148.74	Peak	65.97	0.44	66.41	74.00	-7.59
5150.00	Average	52.45	0.45	52.90	54.00	-1.10
5150.00	Peak	64.72	0.45	65.17	74.00	-8.83

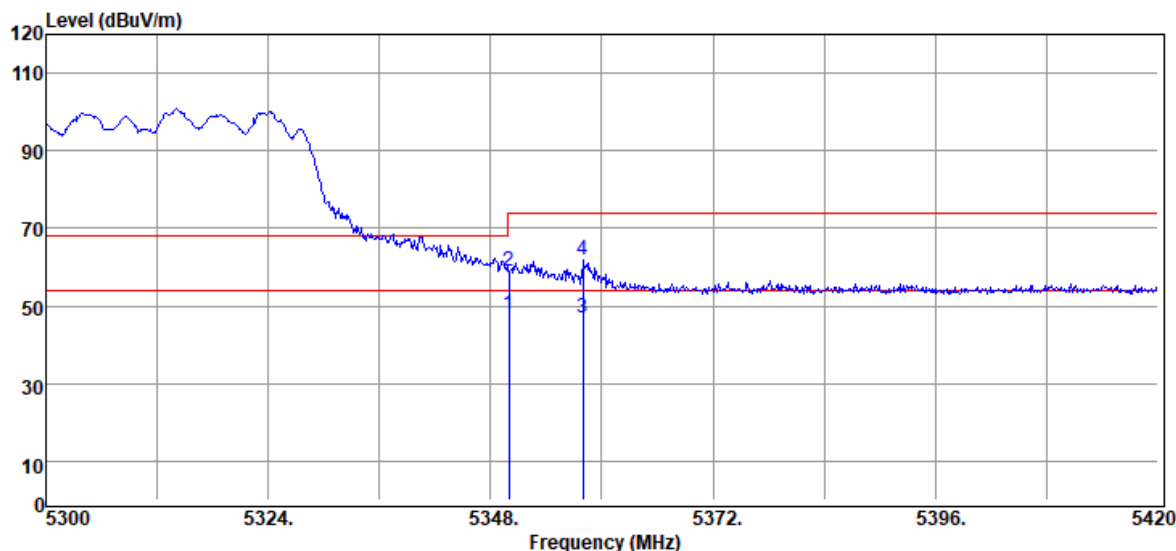
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 2
Test Frequency :5310 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-08
Temp./Humi. :23.5/65
Antenna Pol. :VERTICAL
Engineer :Kailin Lee



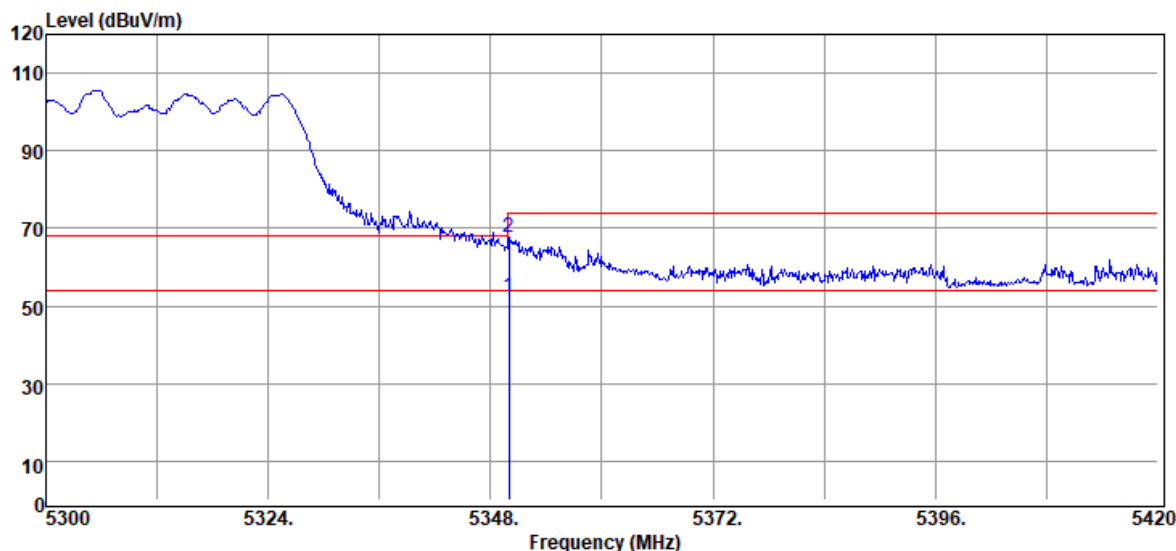
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	47.65	0.07	47.72	54.00	-6.28
5350.00	Peak	59.07	0.07	59.14	74.00	-14.86
5357.96	Average	46.94	0.17	47.11	54.00	-6.89
5357.96	Peak	61.60	0.17	61.77	74.00	-12.23

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Report Number	:ER/2020/80122	Test Site	:966 Chamber D
Operation Mode	:802.11n40 / Band 2	Test Date	:2020-09-08
Test Frequency	:5310 MHz	Temp./Humi.	:23.5/65
Test Mode	:BE CH HIGH	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 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
5350.00	Average	52.45	0.07	52.52	54.00	-1.48
5350.00	Peak	67.45	0.07	67.52	74.00	-6.48

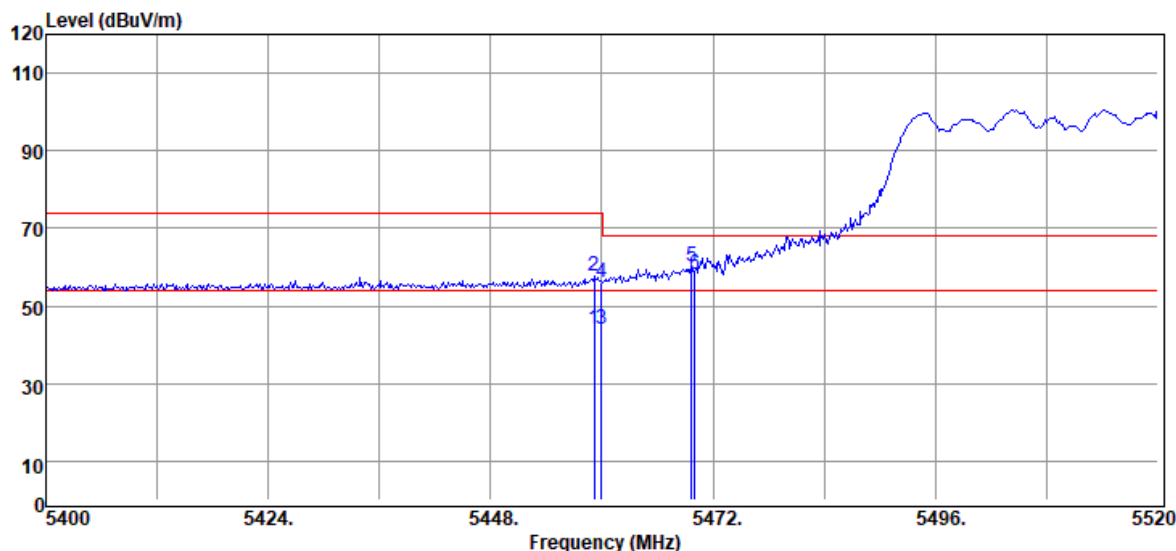
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-08
Temp./Humi. :23.6/66
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
5459.15	Average	42.80	1.18	43.98	54.00	-10.02
5459.15	Peak	56.54	1.18	57.72	74.00	-16.28
5460.00	Average	42.99	1.18	44.17	54.00	-9.83
5460.00	Peak	54.85	1.18	56.03	74.00	-17.97
5469.65	Peak	58.97	1.25	60.22	68.20	-7.98
5470.00	Peak	57.00	1.26	58.26	68.20	-9.94

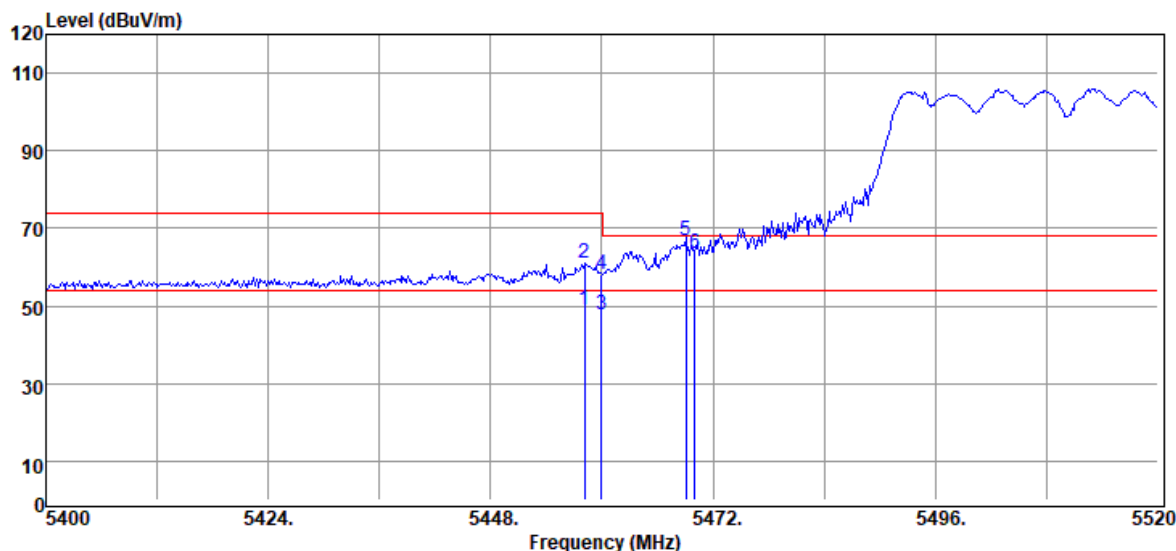
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-08
Temp./Humi. :23.6/66
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
5458.10	Average	47.93	1.18	49.11	54.00	-4.89
5458.10	Peak	59.89	1.18	61.07	74.00	-12.93
5460.00	Average	46.59	1.18	47.77	54.00	-6.23
5460.00	Peak	56.92	1.18	58.10	74.00	-15.90
5469.05	Peak	65.43	1.25	66.68	68.20	-1.52
5470.00	Peak	62.17	1.26	63.43	68.20	-4.77

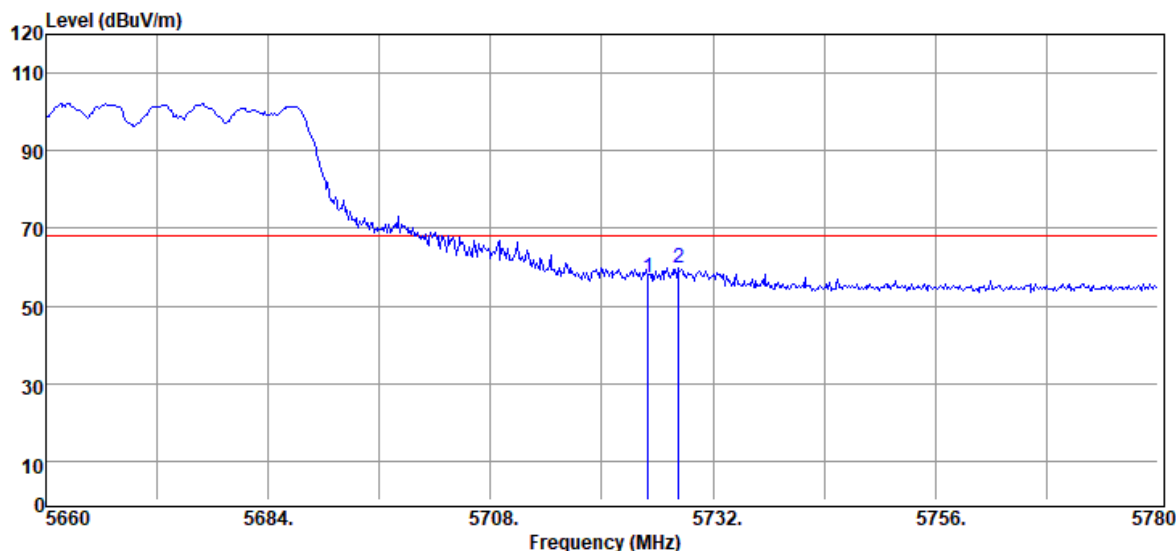
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 3
Test Frequency :5670 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-08
Temp./Humi. :23.5/66
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
5725.00	Peak	56.27	0.98	57.25	68.20	-10.95
5728.25	Peak	58.69	0.98	59.67	68.20	-8.53

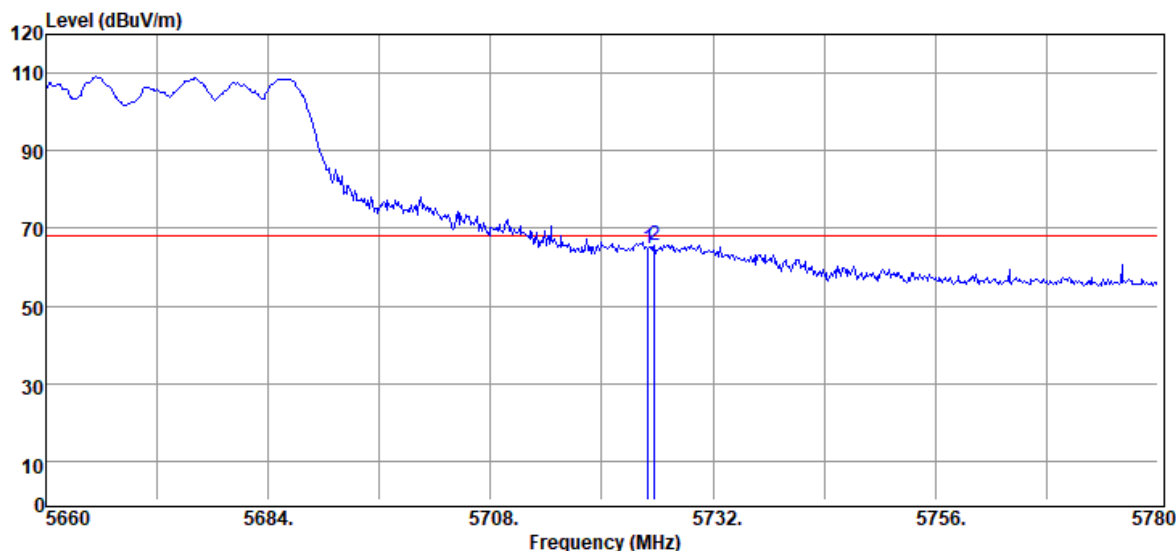
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 3
Test Frequency :5670 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-08
Temp./Humi. :23.5/66
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
5725.00	Peak	63.91	0.98	64.89	68.20	-3.31
5725.70	Peak	64.80	0.98	65.78	68.20	-2.42

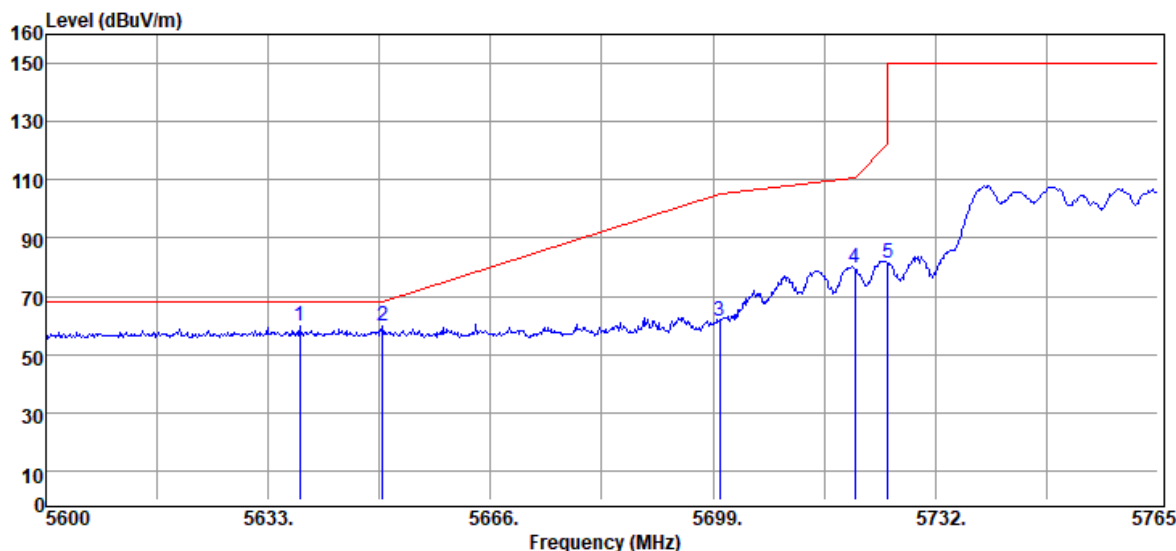
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Report Number :ER/2020/80122
 Operation Mode :802.11n40 / Band 4
 Test Frequency :5755 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-08
 Temp./Humi. :23.5/66
 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
5637.62	Peak	59.26	0.74	60.00	68.20	-8.20
5650.00	Peak	58.85	0.79	59.64	68.20	-8.56
5700.00	Peak	60.48	1.00	61.48	105.20	-43.72
5720.00	Peak	78.85	0.99	79.84	110.80	-30.96
5725.00	Peak	80.36	0.98	81.34	122.20	-40.86

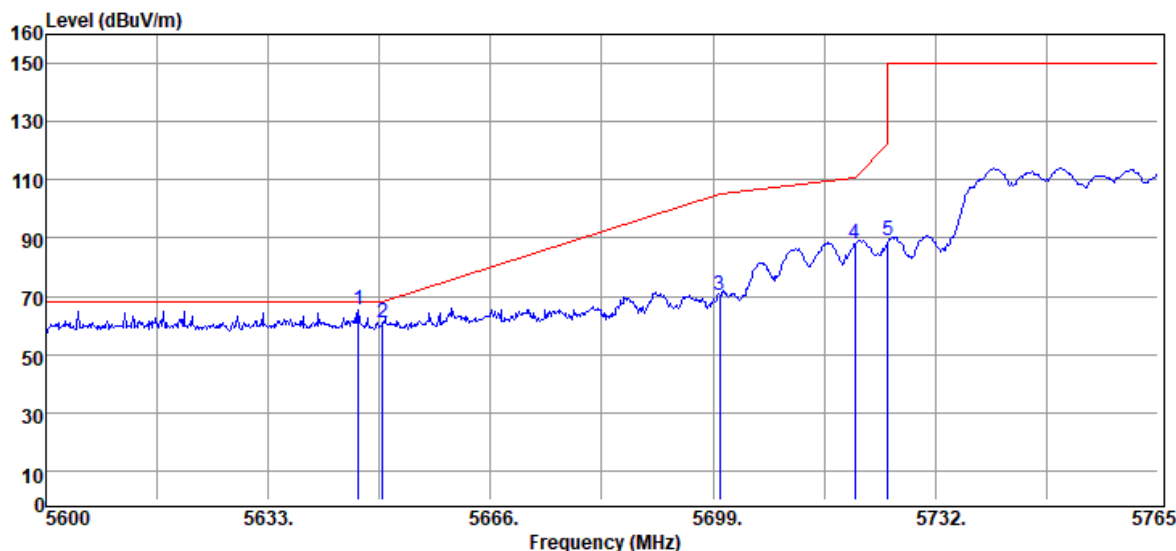
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 4
Test Frequency :5755 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-08
Temp./Humi. :23.5/66
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
5646.37	Peak	64.49	0.77	65.26	68.20	-2.94
5650.00	Peak	60.04	0.79	60.83	68.20	-7.37
5700.00	Peak	69.20	1.00	70.20	105.20	-35.00
5720.00	Peak	86.79	0.99	87.78	110.80	-23.02
5725.00	Peak	88.05	0.98	89.03	122.20	-33.17

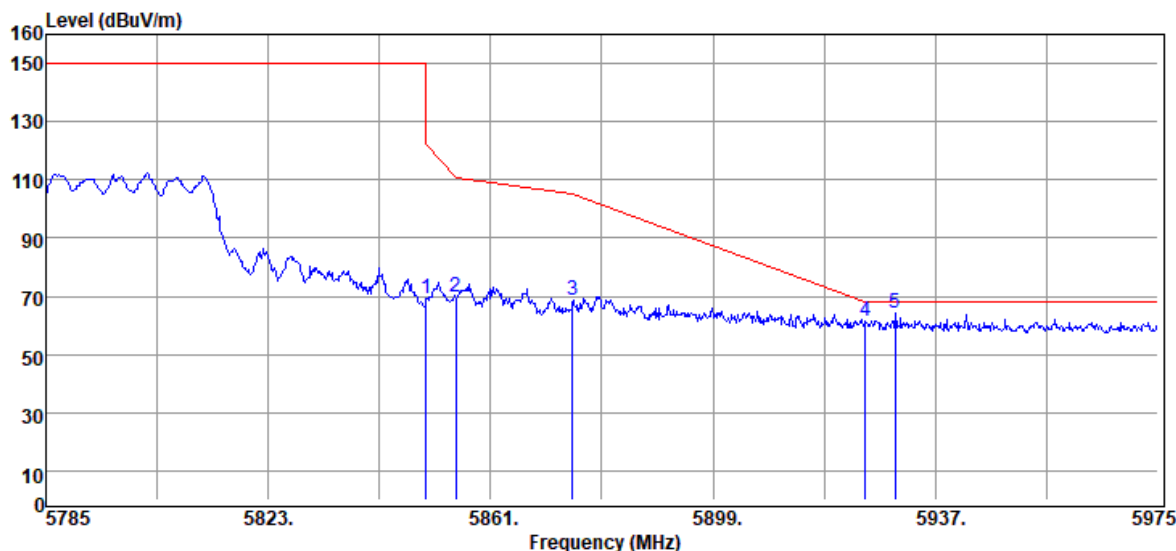
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 4
Test Frequency :5795 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-22
Temp./Humi. :22.3/62
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
5850.00	Peak	68.06	1.13	69.19	122.20	-53.01
5855.00	Peak	68.65	1.15	69.80	110.80	-41.00
5875.00	Peak	67.32	1.26	68.58	105.20	-36.62
5925.00	Peak	59.96	1.27	61.23	68.20	-6.97
5930.16	Peak	62.79	1.24	64.03	68.20	-4.17

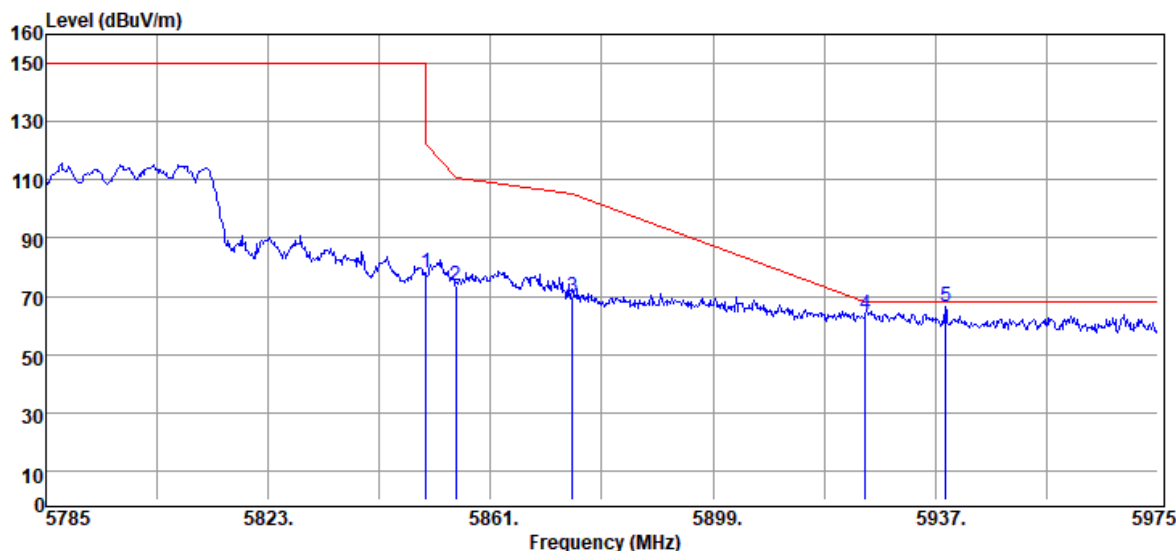
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Report Number :ER/2020/80122
Operation Mode :802.11n40 / Band 4
Test Frequency :5795 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-22
Temp./Humi. :22.3/62
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
5850.00	Peak	76.89	1.13	78.02	122.20	-44.18
5855.00	Peak	72.58	1.15	73.73	110.80	-37.07
5875.00	Peak	68.57	1.26	69.83	105.20	-35.37
5925.00	Peak	62.29	1.27	63.56	68.20	-4.64
5938.71	Peak	65.31	1.20	66.51	68.20	-1.69

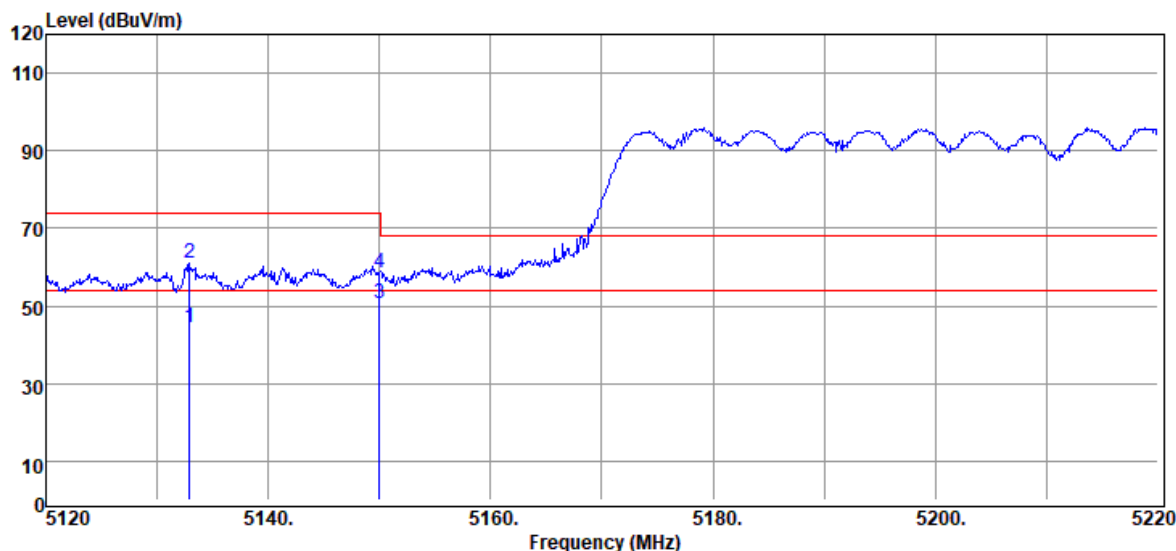
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 1
Test Frequency :5210 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-08
Temp./Humi. :23.5/65
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
5132.90	Average	43.98	0.35	44.33	54.00	-9.67
5132.90	Peak	60.74	0.35	61.09	74.00	-12.91
5150.00	Average	50.11	0.45	50.56	54.00	-3.44
5150.00	Peak	58.13	0.45	58.58	74.00	-15.42

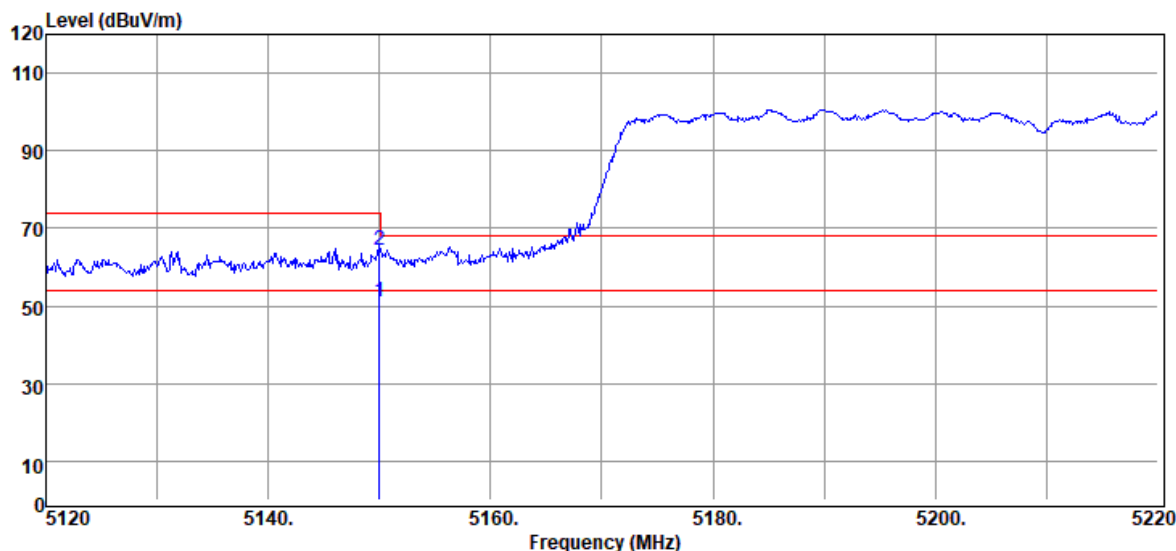
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Report Number :ER/2020/80122
 Operation Mode :802.11ac80 / Band 1
 Test Frequency :5210 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-08
 Temp./Humi. :23.5/65
 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
5150.00	Average	50.77	0.45	51.22	54.00	-2.78
5150.00	Peak	63.80	0.45	64.25	74.00	-9.75

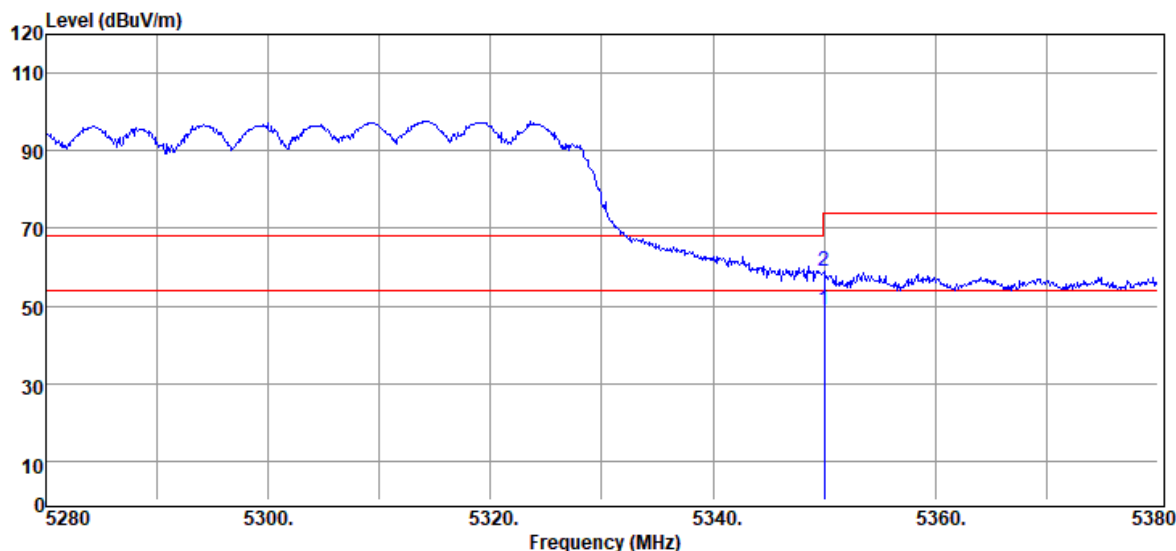
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 2
Test Frequency :5290 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-08
Temp./Humi. :23.4/67
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
5350.00	Average	48.77	0.07	48.84	54.00	-5.16
5350.00	Peak	59.02	0.07	59.09	74.00	-14.91

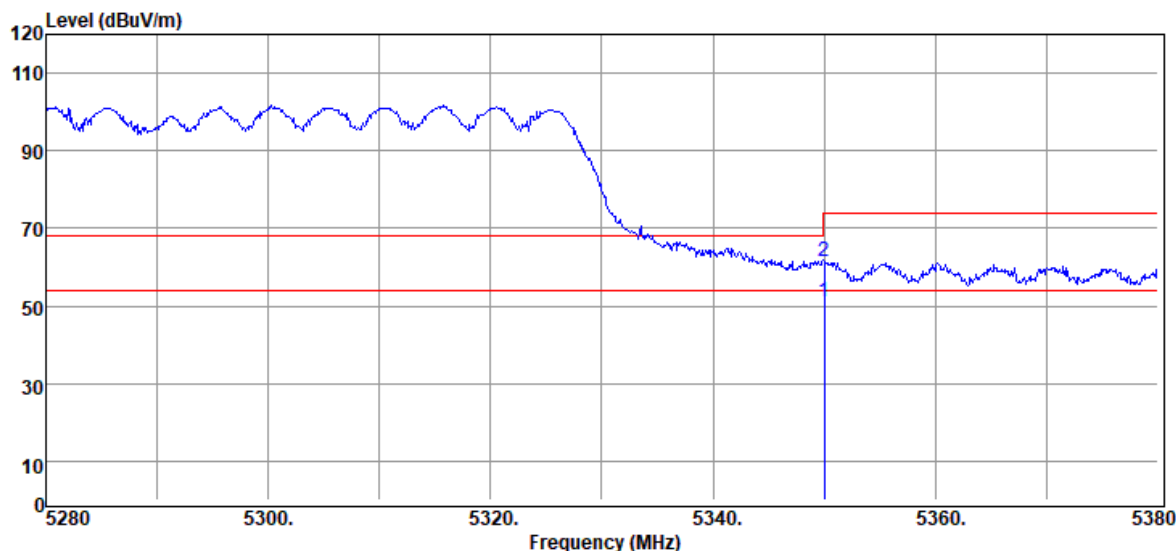
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Report Number :ER/2020/80122
 Operation Mode :802.11ac80 / Band 2
 Test Frequency :5290 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-08
 Temp./Humi. :23.4/67
 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
5350.00	Average	50.98	0.07	51.05	54.00	-2.95
5350.00	Peak	61.25	0.07	61.32	74.00	-12.68

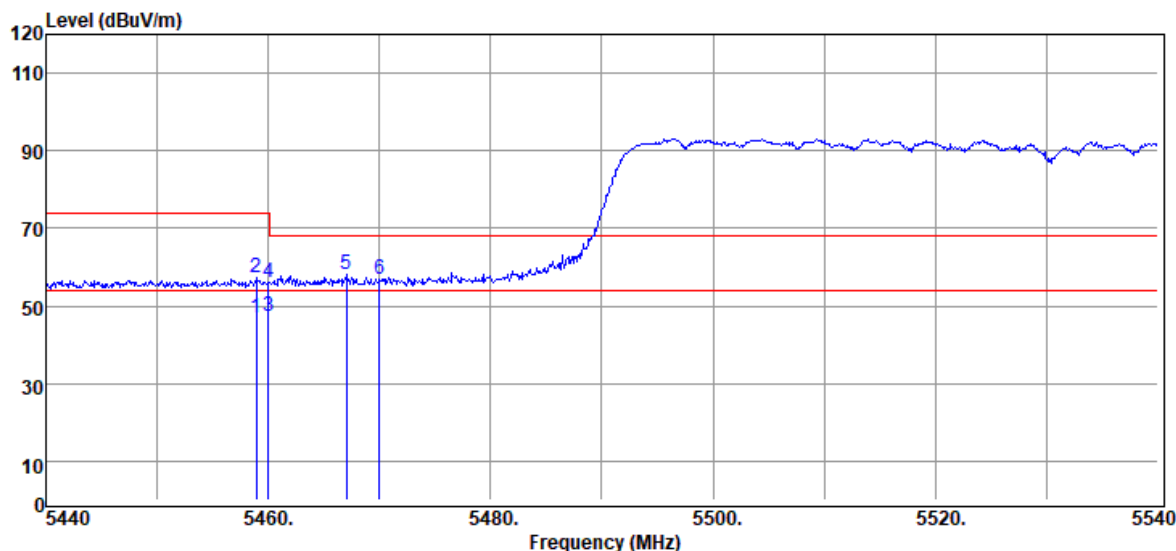
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 3
Test Frequency :5530 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-08
Temp./Humi. :23.5/66
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
5458.90	Average	45.74	1.18	46.92	54.00	-7.08
5458.90	Peak	55.94	1.18	57.12	74.00	-16.88
5460.00	Average	46.36	1.18	47.54	54.00	-6.46
5460.00	Peak	54.97	1.18	56.15	74.00	-17.85
5467.00	Peak	56.85	1.23	58.08	68.20	-10.12
5470.00	Peak	55.50	1.26	56.76	68.20	-11.44

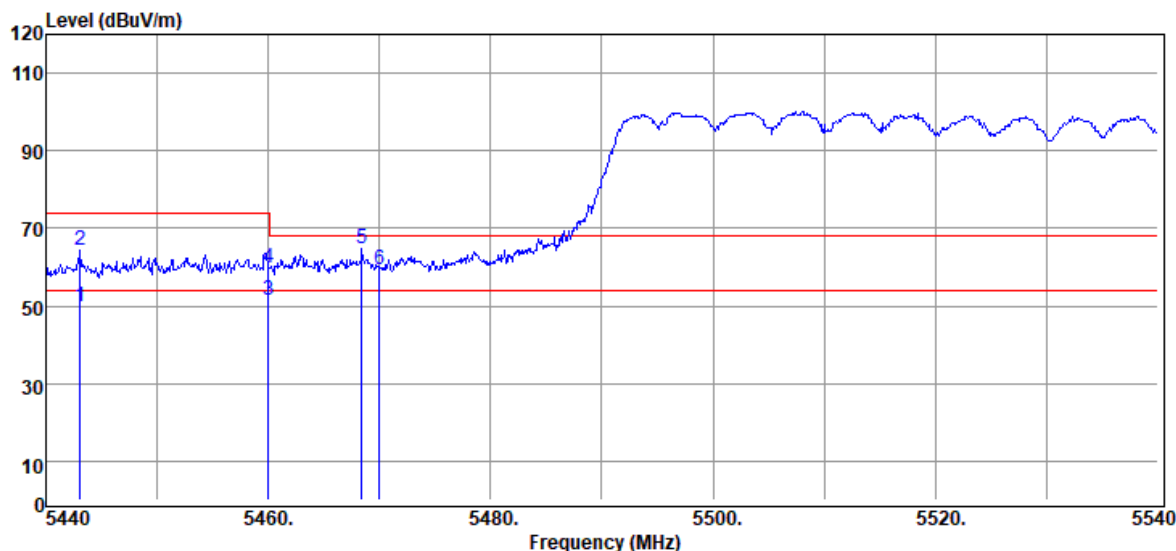
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Report Number :ER/2020/80122
 Operation Mode :802.11ac80 / Band 3
 Test Frequency :5530 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plan

Test Site :966 Chamber D
 Test Date :2020-09-08
 Temp./Humi. :23.5/66
 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
5443.10	Average	48.77	1.05	49.82	54.00	-4.18
5443.10	Peak	63.11	1.05	64.16	74.00	-9.84
5460.00	Average	50.11	1.18	51.29	54.00	-2.71
5460.00	Peak	58.59	1.18	59.77	74.00	-14.23
5468.40	Peak	63.69	1.24	64.93	68.20	-3.27
5470.00	Peak	58.25	1.26	59.51	68.20	-8.69

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Report Number :ER/2020/80122

Test Site :966 Chamber D

Operation Mode :802.11ac80 / Band 4

Test Date :2020-09-22

Test Frequency :5775 MHz

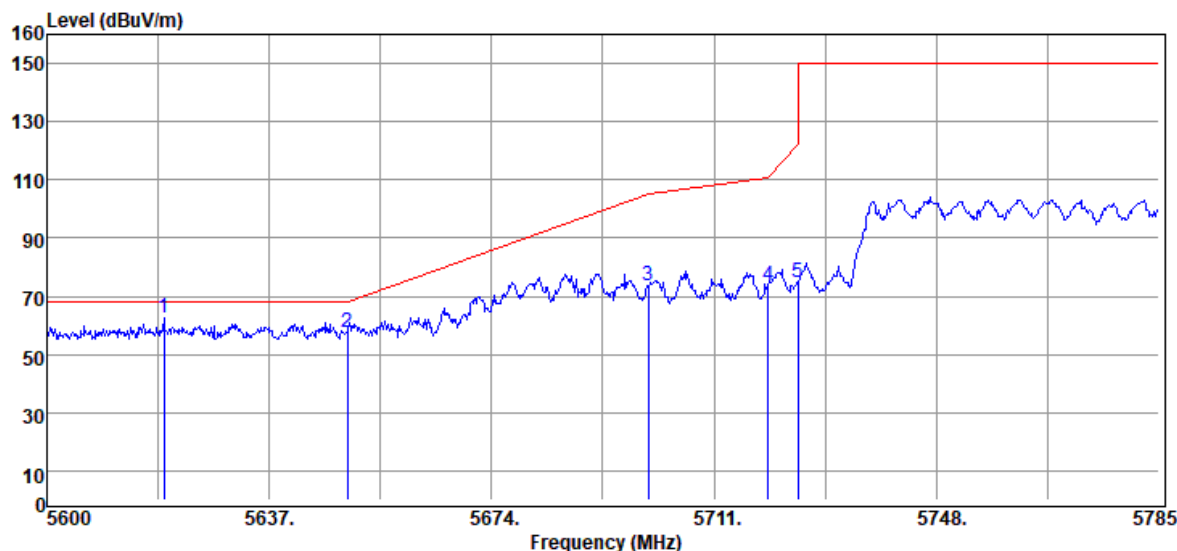
Temp./Humi. :22.3/62

Test Mode :BE CH LOW

Antenna Pol. :VERTICAL

EUT Pol :E2 Plan

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
5619.43	Peak	62.11	0.66	62.77	68.20	-5.43
5650.00	Peak	56.85	0.79	57.64	68.20	-10.56
5700.00	Peak	72.82	1.00	73.82	105.20	-31.38
5720.00	Peak	72.56	0.99	73.55	110.80	-37.25
5725.00	Peak	73.70	0.98	74.68	122.20	-47.52

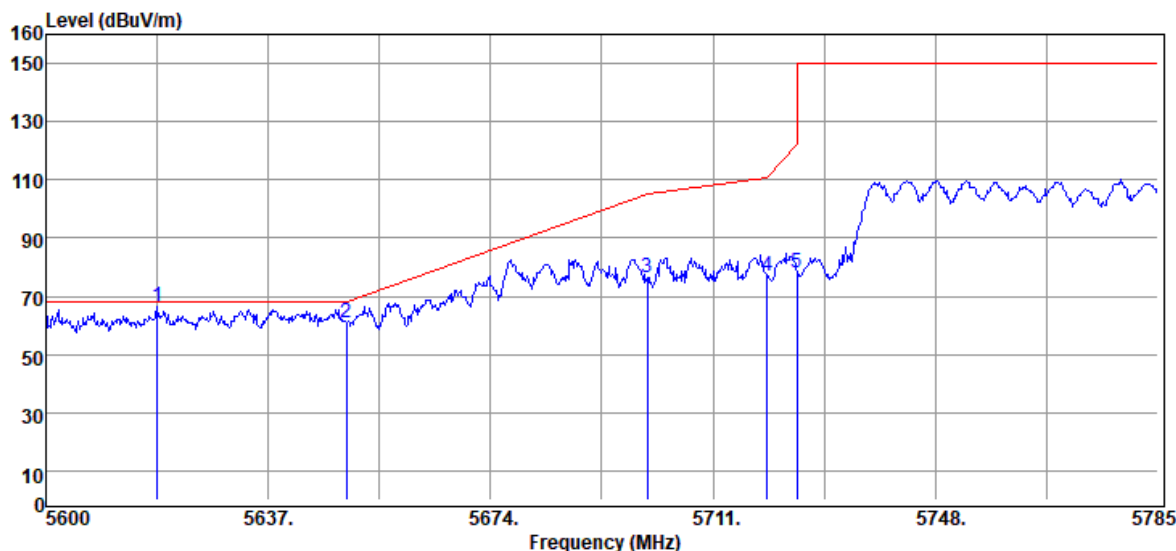
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 4
Test Frequency :5775 MHz
Test Mode :BE CH LOW
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-22
Temp./Humi. :22.3/62
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
5618.50	Peak	65.51	0.66	66.17	68.20	-2.03
5650.00	Peak	60.35	0.79	61.14	68.20	-7.06
5700.00	Peak	75.21	1.00	76.21	105.20	-28.99
5720.00	Peak	75.81	0.99	76.80	110.80	-34.00
5725.00	Peak	77.29	0.98	78.27	122.20	-43.93

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Report Number :ER/2020/80122

Test Site :966 Chamber D

Operation Mode :802.11ac80 / Band 4

Test Date :2020-09-22

Test Frequency :5775 MHz

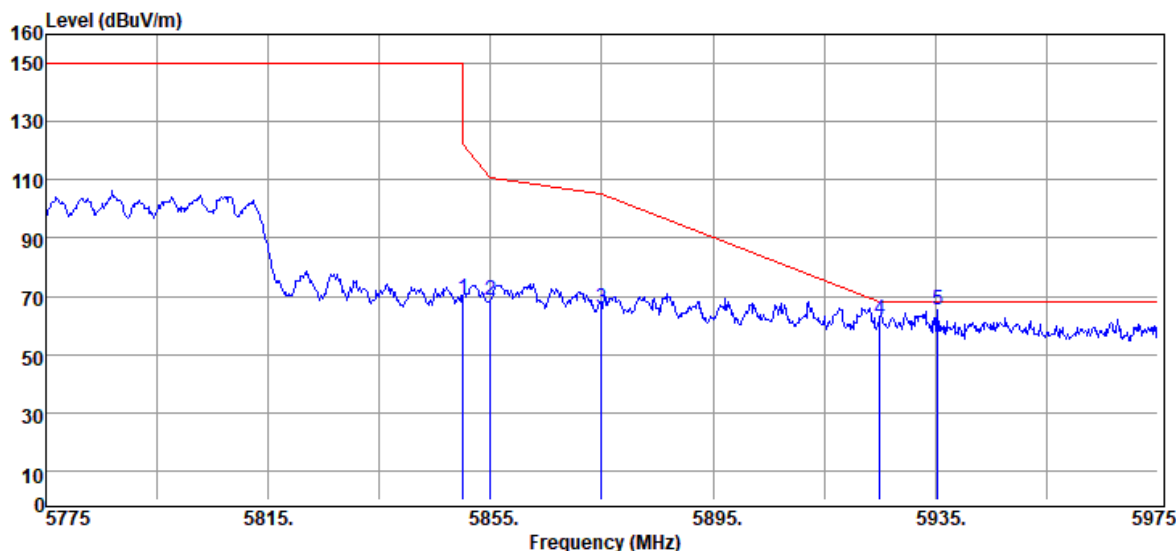
Temp./Humi. :22.3/62

Test Mode :BE CH HIGH

Antenna Pol. :VERTICAL

EUT Pol :E2 Plan

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
5850.00	Peak	67.87	1.13	69.00	122.20	-53.20
5855.00	Peak	67.28	1.15	68.43	110.80	-42.37
5875.00	Peak	64.41	1.26	65.67	105.20	-39.53
5925.00	Peak	60.81	1.27	62.08	68.20	-6.12
5935.40	Peak	64.06	1.21	65.27	68.20	-2.93

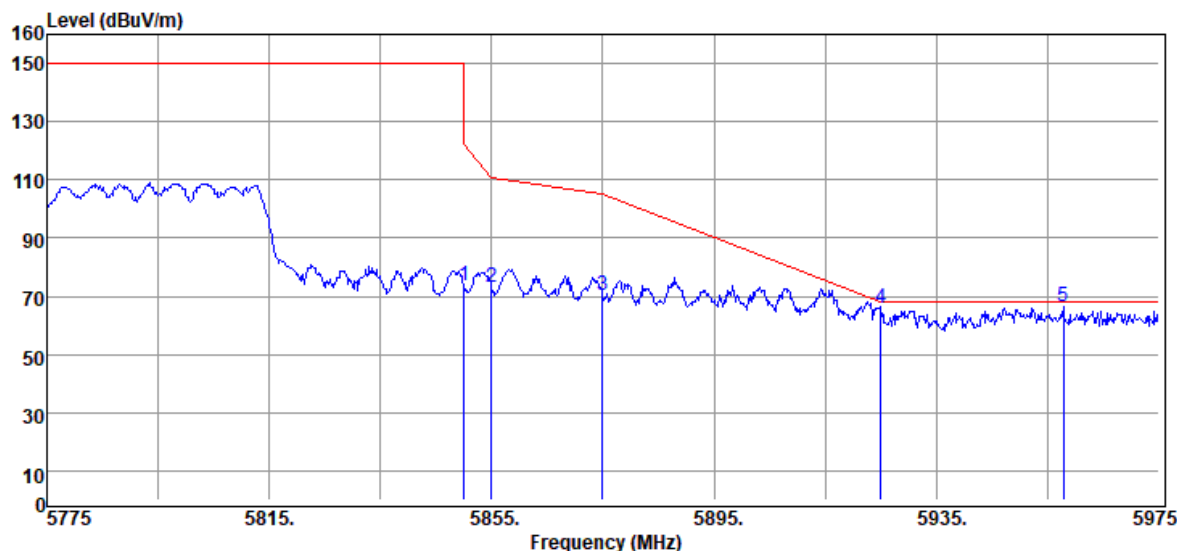
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Report Number :ER/2020/80122
Operation Mode :802.11ac80 / Band 4
Test Frequency :5775 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plan

Test Site :966 Chamber D
Test Date :2020-09-22
Temp./Humi. :22.3/62
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
5850.00	Peak	72.25	1.13	73.38	122.20	-48.82
5855.00	Peak	71.68	1.15	72.83	110.80	-37.97
5875.00	Peak	69.08	1.26	70.34	105.20	-34.86
5925.00	Peak	64.36	1.27	65.63	68.20	-2.57
5957.80	Peak	65.12	1.07	66.19	68.20	-2.01

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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

12.2 Result

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

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13 FREQUENCY STABILITY

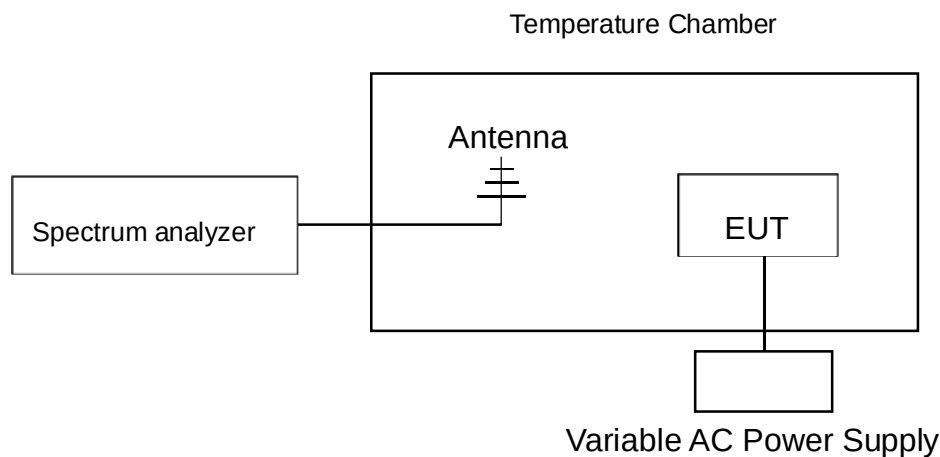
13.1 Standard Applicable

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

13.2 Measurement Procedure

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

13.3 Test SET-UP



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13.4 Measurement Equipment Used:

SGS Conducted Room					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/17/2020	03/16/2021
DC Power Supply	DHA	DPS-3003	9411005787	08/19/2020	08/18/2021
DC Block	PASTERNAK	PE8210	RF256	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF245	11/20/2019	11/19/2020

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13.5 Measurement Result

Start up

Operation Mode	802.11 a	Test Date	2020.09.16
Temperature	: 22.8°C	Test By	Scott
Humidity	: 59%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-40	5.5	36	5180	5,179.99350	0.00650000
	2.7	36	5180	5,179.99270	0.00730000
25	3.3	36	5180	5,179.99590	0.00410000
85	5.5	36	5180	5,179.99090	0.00910000
	2.7	36	5180	5,179.99260	0.00740000

2 minutes

Operation Mode	802.11 a	Test Date	2020.09.16
Temperature	: 22.8°C	Test By	Scott
Humidity	: 59%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-40	5.5	36	5180	5,179.99630	0.00370000
	2.7	36	5180	5,179.99200	0.00800000
25	3.3	36	5180	5,179.99950	0.00050000
85	5.5	36	5180	5,179.99700	0.00300000
	2.7	36	5180	5,179.99780	0.00220000

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5 minutes

Operation Mode	802.11 a	Test Date	2020.09.16
Temperature	: 22.8°C	Test By	Scott
Humidity	: 59%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-40	5.5	36	5180	5,179.99270	0.00730000
	2.7	36	5180	5,179.99790	0.00210000
25	3.3	36	5180	5,179.99350	0.00650000
85	5.5	36	5180	5,179.99360	0.00640000
	2.7	36	5180	5,179.99690	0.00310000

10 minutes

Operation Mode	802.11 a	Test Date	2020.09.16
Temperature	: 22.8°C	Test By	Scott
Humidity	: 59%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-40	5.5	36	5180	5,179.99920	0.00080000
	2.7	36	5180	5,179.99770	0.00230000
25	3.3	36	5180	5,179.99620	0.00380000
85	5.5	36	5180	5,179.99310	0.00690000
	2.7	36	5180	5,179.99220	0.00780000

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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

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

14.2 Antenna Connected Construction

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

~ End of Report ~

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