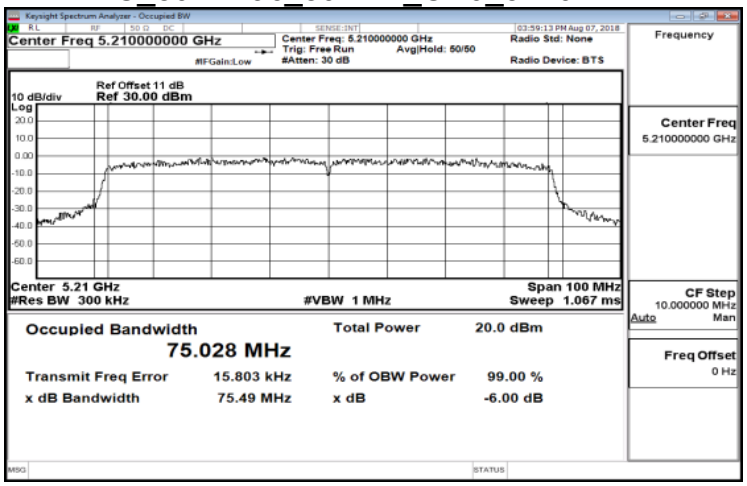
IC_802.11ac_80MHz_CH0_5210MHz



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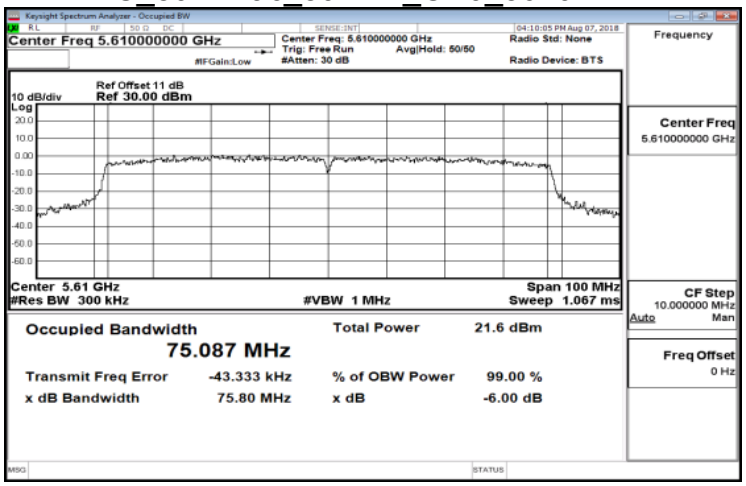

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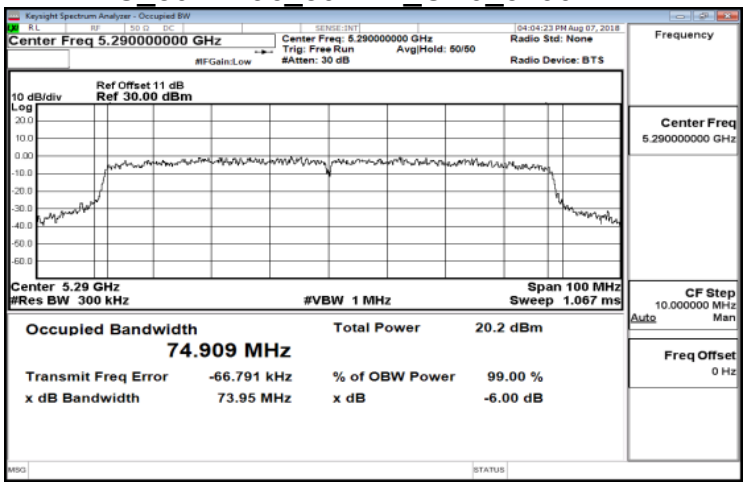
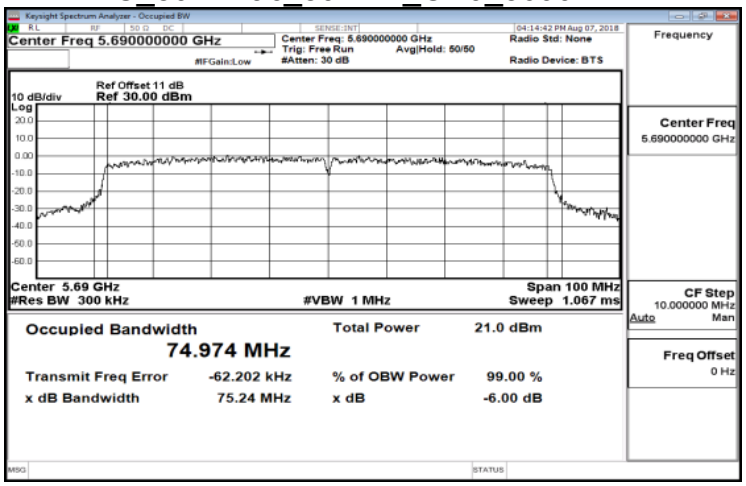
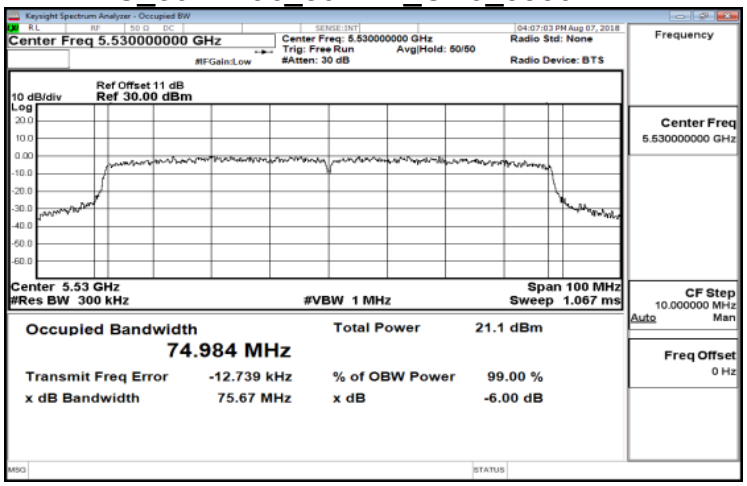


IC_802.11ac_80MHz_CH0_5690MHz



IC_802.11ac_80MHz_CH0_5530MHz



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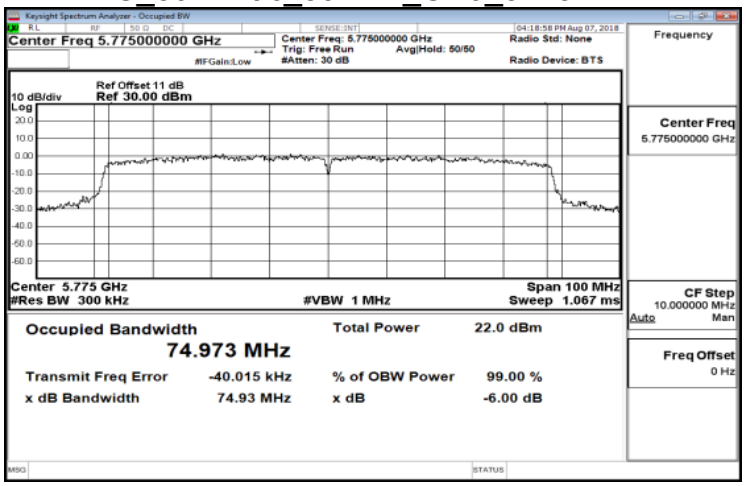

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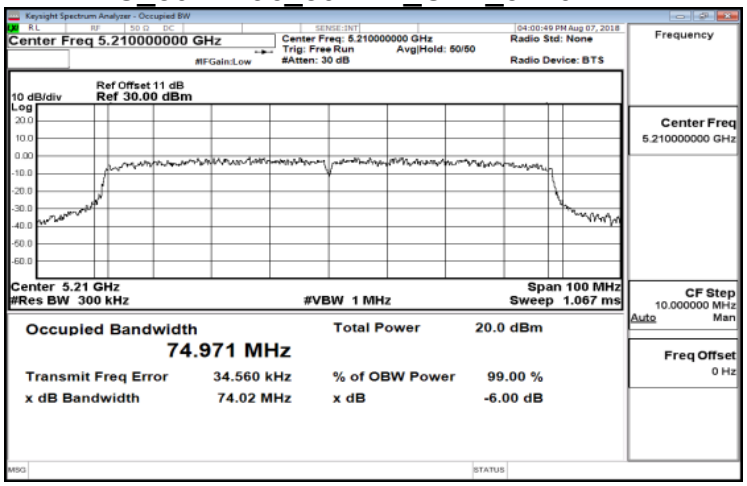
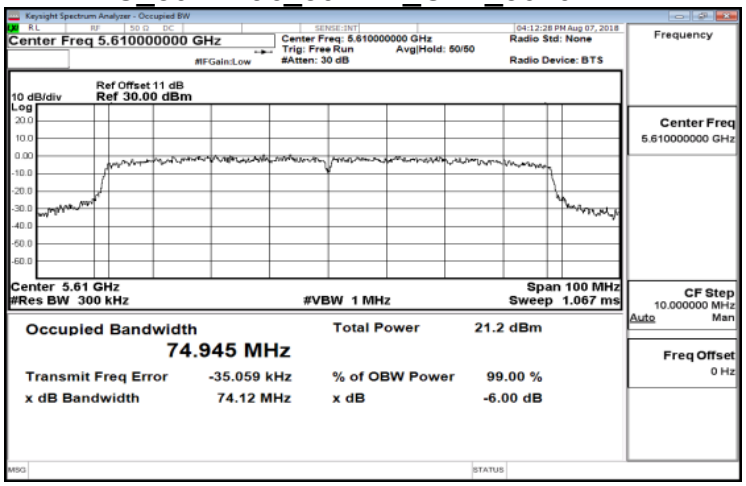
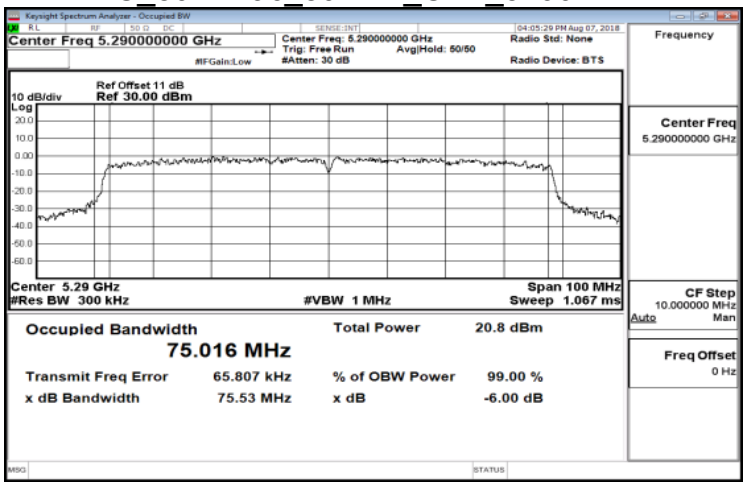
IC_802.11ac_80MHz_CH1_5210MHz



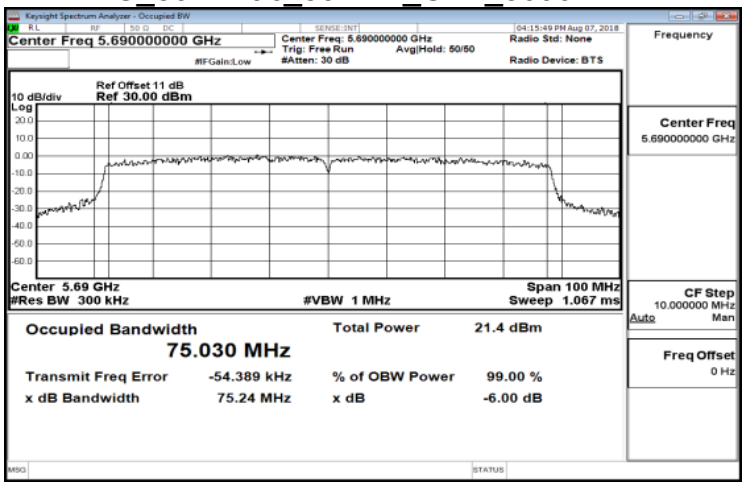
IC_802.11ac_80MHz_CH1_5610MHz



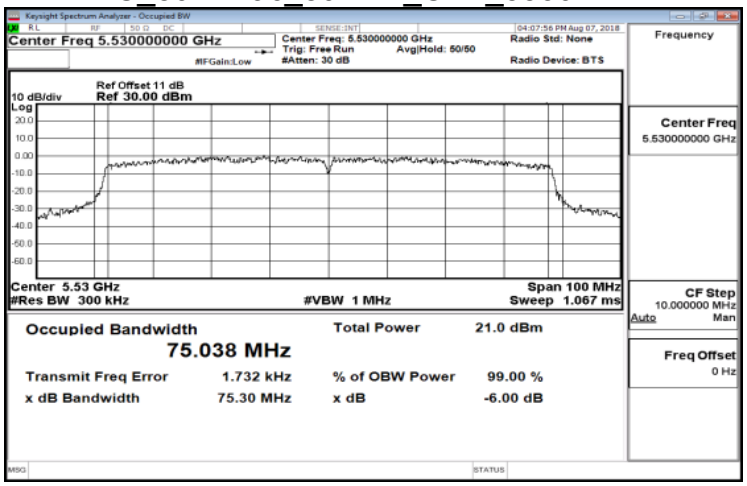
IC_802.11ac_80MHz_CH1_5290MHz



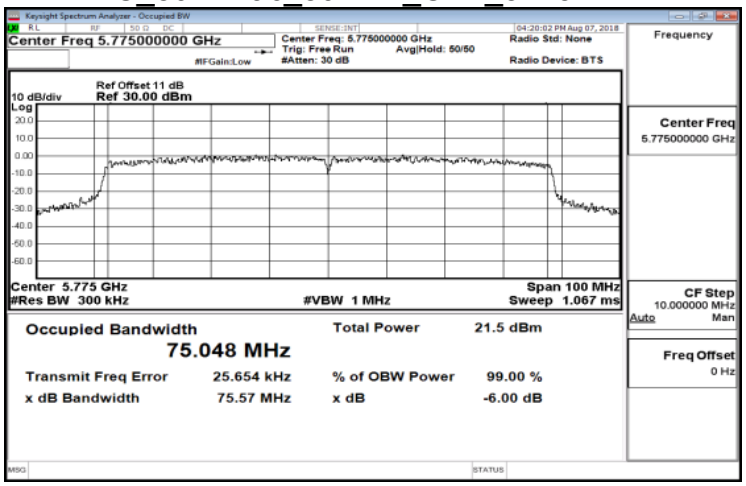
IC_802.11ac_80MHz_CH1_5690MHz



IC_802.11ac_80MHz_CH1_5530MHz



IC_802.11ac_80MHz_CH1_5775MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

OPERATION 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)

IC

OPERATION 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

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

For power measurements on all other devices:

Directional gain = GANT MAX + 10 log(NANT/NSS) dBi, where NSS = the number of independent spatial streams of data and GANT MAX is.the gain of the antenna having the highest gain (in dBi)..

CH0 Antenna Gain	dBi
Antenna Assembly Gain for 5.15-5.25G	0.43
Antenna Assembly Gain for 5.25-5.35G	0.43
Antenna Assembly Gain for 5.47-5.725G	2.25
Antenna Assembly Gain for 5.725-5.825G	2.25

CH1 Antenna Gain	dBi
Antenna Assembly Gain for 5.15-5.25G	1.26
Antenna Assembly Gain for 5.25-5.35G	2.46
Antenna Assembly Gain for 5.47-5.725G	2.02
Antenna Assembly Gain for 5.725-5.825G	1.21

Mimo Antenna Gain	dBi
Antenna Assembly Gain for 5.15-5.25G	3.87
Antenna Assembly Gain for 5.25-5.35G	4.51
Antenna Assembly Gain for 5.47-5.725G	5.15
Antenna Assembly Gain for 5.725-5.825G	4.76

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9.2 Measurement Procedure

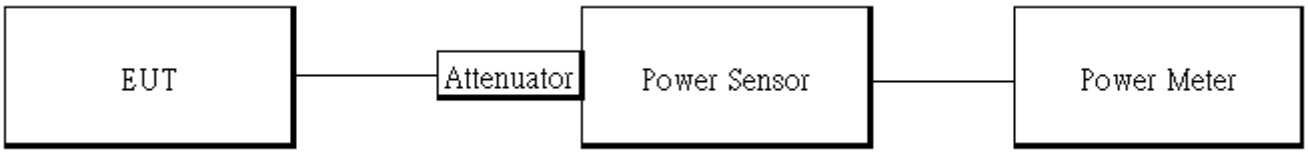
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test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

Note: The reported CH0 and CH1 power values in the 2Tx and MIMO tables were measured whe performing additional measurements and all reported values are within compliance.

9.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Power Meter	Anritsu	ML2496A	1326001	2018/08/09	2019/08/02
Power Sensor	Anritsu	MA2411B	1315048	2018/08/09	2019/08/02
Power Sensor	Anritsu	MA2411B	1315049	2018/08/09	2019/08/02
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Attenuator	Marvelous	MVE2213-10	RF31	2017/12/26	2018/12/25
DC Block	PASTERNACK	PE8210	RF29	2017/12/26	2018/12/25
Notebook	Lenovo	L420	S0011721	N/A	N/A

9.4 Test Set-up



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9.5 Measurement Result

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	12.73	18.738	23.98	PASS
44	5220	6	**12.99**	19.895	23.98	PASS
48	5240	6	12.78	18.955	23.98	PASS
52	5260	6	12.92	19.576	23.98 or 11+10log(B) = 23.67	PASS
60	5300	6	12.97	19.803	23.98 or 11+10log(B) = 23.78	PASS
64	5320	6	**12.98**	19.849	23.98 or 11+10log(B) = 23.59	PASS
100	5500	6	12.83	19.175	23.98 or 11+10log(B) = 23.75	PASS
116	5580	6	**12.99**	19.895	23.98 or 11+10log(B) = 23.63	PASS
140	5700	6	12.83	19.175	23.98 or 11+10log(B) = 23.69	PASS
149	5745	6	12.75	18.825	30	PASS
157	5785	6	**12.99**	19.895	30	PASS
165	5825	6	12.98	19.849	30	PASS

802.11a_CH1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	12.76	18.868	23.98	PASS
44	5220	6	12.81	19.087	23.98	PASS
48	5240	6	12.98	19.849	23.98	PASS
52	5260	6	12.97	19.803	23.98 or 11+10log(B) = 23.64	PASS
60	5300	6	12.91	19.531	23.98 or 11+10log(B) = 23.79	PASS
64	5320	6	12.86	19.308	23.98 or 11+10log(B) = 23.67	PASS
100	5500	6	12.67	18.481	23.98 or 11+10log(B) = 23.81	PASS
116	5580	6	**12.99**	19.895	23.98 or 11+10log(B) = 23.74	PASS
140	5700	6	12.82	19.131	23.98 or 11+10log(B) = 23.66	PASS
149	5745	6	12.70	18.609	30	PASS
157	5785	6	12.98	19.849	30	PASS
165	5825	6	12.86	19.308	30	PASS

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802.11a_2TX

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	6	12.93	12.46	15.94	37.253	23.98	PASS
44	5220	6	12.76	12.41	15.83	36.298	23.98	PASS
48	5240	6	12.92	12.58	**15.99**	37.702	23.98	PASS
52	5260	6	12.94	12.54	15.98	37.626	23.98 or 11+10log(B) = 23.64	PASS
60	5300	6	12.97	12.5	15.98	37.598	23.98 or 11+10log(B) = 23.78	PASS
64	5320	6	12.98	12.4	15.94	37.239	23.98 or 11+10log(B) = 23.59	PASS
100	5500	6	12.95	12.27	15.86	36.590	23.98 or 11+10log(B) = 23.75	PASS
116	5580	6	12.99	12.22	15.86	36.579	23.98 or 11+10log(B) = 23.63	PASS
140	5700	6	12.98	11.96	15.74	35.565	23.98 or 11+10log(B) = 23.66	PASS
149	5745	6	12.99	12.18	15.84	36.426	30	PASS
157	5785	6	12.94	12.15	15.80	36.085	30	PASS
165	5825	6	12.97	12	15.75	35.664	30	PASS

802.11n_HT20_CH0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	**12.99**	19.885	23.98	PASS
44	5220	MCS0	12.98	19.839	23.98	PASS
48	5240	MCS0	12.74	18.773	23.98	PASS
52	5260	MCS0	12.90	19.477	23.98 or 11+10log(B) = 23.95	PASS
60	5300	MCS0	12.97	19.794	23.98 or 11+10log(B) = 23.88	PASS
64	5320	MCS0	**12.98**	19.839	23.98 or 11+10log(B) = 23.89	PASS
100	5500	MCS0	12.77	18.903	23.98 or 11+10log(B) = 23.93	PASS
116	5580	MCS0	12.90	19.477	23.98 or 11+10log(B) = 23.89	PASS
140	5700	MCS0	12.83	19.166	23.98 or 11+10log(B) = 23.91	PASS
144	5720(U-NII 2C)	MCS0	9.81	9.572	23.98 or 11+10log(B) = 22.61	PASS
144	5720 (U-NII 3)	MCS0	2.92	1.957	30	PASS
149	5745	MCS0	**12.99**	19.885	30	PASS
157	5785	MCS0	**12.99**	19.885	30	PASS
165	5825	MCS0	12.94	19.658	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	12.76	18.860	23.98	PASS
44	5220	MCS0	12.74	18.773	23.98	PASS
48	5240	MCS0	12.96	19.748	23.98	PASS
52	5260	MCS0	12.97	19.794	23.98 or 11+10log(B) = 23.91	PASS
60	5300	MCS0	12.87	19.343	23.98 or 11+10log(B) = 23.92	PASS
64	5320	MCS0	12.88	19.388	23.98 or 11+10log(B) = 23.93	PASS
100	5500	MCS0	**12.99**	19.885	23.98 or 11+10log(B) = 23.89	PASS
116	5580	MCS0	12.98	19.839	23.98 or 11+10log(B) = 23.89	PASS
140	5700	MCS0	12.87	19.343	23.98 or 11+10log(B) = 23.98	PASS
144	5720(U-NII 2C)	MCS0	**9.86**	9.691	23.98 or 11+10log(B) = 22.80	PASS
144	5720 (U-NII 3)	MCS0	2.93	1.964	30	PASS
149	5745	MCS0	12.70	18.601	30	PASS
157	5785	MCS0	**12.99**	19.885	30	PASS
165	5825	MCS0	12.83	19.166	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	12.68	12.33	15.98	35.635	23.98	PASS
44	5220	MCS8	12.55	12.31	15.91	35.010	23.98	PASS
48	5240	MCS8	12.66	12.36	15.99	35.669	23.98	PASS
52	5260	MCS8	12.66	12.31	15.96	35.472	23.98 or 11+10log(B) = 23.91	PASS
60	5300	MCS8	12.7	12.19	15.93	35.179	23.98 or 11+10log(B) = 23.88	PASS
64	5320	MCS8	12.77	12.2	15.97	35.519	23.98 or 11+10log(B) = 23.89	PASS
100	5500	MCS8	12.63	12	15.80	34.172	23.98 or 11+10log(B) = 23.89	PASS
116	5580	MCS8	12.75	11.9	15.82	34.325	23.98 or 11+10log(B) = 23.89	PASS
140	5700	MCS8	12.97	11.98	15.98	35.591	23.98 or 11+10log(B) = 23.91	PASS
144	5720(U-NII 2C)	MCS8	10.014	9.2275	12.32	18.403	23.98 or 11+10log(B) = 22.61	PASS
144	5720 (U-NII 3)	MCS8	2.9761	2.7425	3.66	3.865	30	PASS
149	5745	MCS8	12.98	11.99	**15.99**	35.673	30	PASS
157	5785	MCS8	12.88	11.84	15.87	34.685	30	PASS
165	5825	MCS8	12.96	11.92	15.95	35.329	30	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	12.84	19.222	23.98	PASS
46	5230	MCS0	12.95	19.716	23.98	PASS
54	5270	MCS0	**12.99**	19.898	23.98 or 11+10log(B) = 27.01	PASS
62	5310	MCS0	**12.99**	19.898	23.98 or 11+10log(B) = 26.99	PASS
102	5510	MCS0	12.95	19.716	23.98 or 11+10log(B) = 26.97	PASS
110	5550	MCS0	**12.98**	19.852	23.98 or 11+10log(B) = 27.04	PASS
134	5670	MCS0	12.96	19.761	23.98 or 11+10log(B) = 27.09	PASS
142	5710(U-NII 2C)	MCS0	11.50	14.137	23.98 or 11+10log(B) = 26.59	PASS
142	5710 (U-NII 3)	MCS0	1.40	1.382	30	PASS
151	5755	MCS0	12.82	19.134	30	PASS
159	5795	MCS0	12.83	19.178	30	PASS

802.11n_HT40_CH1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	12.90	19.490	23.98	PASS
46	5230	MCS0	12.78	18.959	23.98	PASS
54	5270	MCS0	12.98	19.852	23.98 or 11+10log(B) = 26.97	PASS
62	5310	MCS0	12.90	19.490	23.98 or 11+10log(B) = 27.02	PASS
102	5510	MCS0	12.85	19.267	23.98 or 11+10log(B) = 26.99	PASS
110	5550	MCS0	12.81	19.090	23.98 or 11+10log(B) = 27.05	PASS
134	5670	MCS0	12.96	19.761	23.98 or 11+10log(B) = 27.04	PASS
142	5710(U-NII 2C)	MCS0	11.48	14.050	23.98 or 11+10log(B) = 26.54	PASS
142	5710 (U-NII 3)	MCS0	1.40	1.381	23.98	PASS
151	5755	MCS0	12.80	19.046	23.98	PASS
159	5795	MCS0	**12.99**	19.898	30	PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	12.312	11.98	**15.99**	32.806	23.98	PASS
46	5230	MCS8	12.14	11.98	15.90	32.144	23.98	PASS
54	5270	MCS8	12.3	11.81	15.90	32.153	23.98 or 11+10log(B) = 26.97	PASS
62	5310	MCS8	12.36	11.64	15.85	31.807	23.98 or 11+10log(B) = 26.99	PASS
102	5510	MCS8	12.2	11.64	15.77	31.184	23.98 or 11+10log(B) = 26.97	PASS
110	5550	MCS8	12.42	11.62	15.88	31.979	23.98 or 11+10log(B) = 27.04	PASS
134	5670	MCS8	12.56	11.64	15.96	32.618	23.98 or 11+10log(B) = 27.04	PASS
142	5710(U-NII 2C)	MCS8	11.274	10.32	14.25	24.172	23.98 or 11+10log(B) = 26.54	PASS
142	5720 (U-NII 3)	MCS8	1.3764	1.26	1.74	2.710	30	PASS
151	5755	MCS8	12.6	11.54	15.94	32.453	30	PASS
159	5795	MCS8	12.5	11.49	15.86	31.876	30	PASS

802.11ac_VHT20_CH0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	12.74	18.778	23.98	PASS
44	5220	MCS0	**12.79**	18.995	23.98	PASS
48	5240	MCS0	12.58	18.099	23.98	PASS
52	5260	MCS0	12.69	18.563	23.98 or 11+10log(B) = 23.95	PASS
60	5300	MCS0	12.69	18.563	23.98 or 11+10log(B) = 23.88	PASS
64	5320	MCS0	12.73	18.735	23.98 or 11+10log(B) = 23.89	PASS
100	5500	MCS0	12.55	17.974	23.98 or 11+10log(B) = 23.93	PASS
116	5580	MCS0	12.71	18.649	23.98 or 11+10log(B) = 23.89	PASS
140	5700	MCS0	12.59	18.141	23.98 or 11+10log(B) = 23.91	PASS
144	5720(U-NII 2C)	MCS0	9.64	9.204	23.98 or 11+10log(B) = 22.61	PASS
144	5720 (U-NII 3)	MCS0	2.88	1.941	30	PASS
149	5745	MCS0	12.84	19.215	30	PASS
157	5785	MCS0	**12.87**	19.349	30	PASS
165	5825	MCS0	12.79	18.995	30	PASS

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802.11ac_VHT20_CH1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	12.52	17.865	23.98	PASS
44	5220	MCS0	12.73	18.750	23.98	PASS
48	5240	MCS0	12.76	18.880	23.98	PASS
52	5260	MCS0	12.62	18.281	23.98 or 11+10log(B) = 23.91	PASS
60	5300	MCS0	12.68	18.535	23.98 or 11+10log(B) = 23.92	PASS
64	5320	MCS0	**12.74**	18.793	23.98 or 11+10log(B) = 23.93	PASS
100	5500	MCS0	**12.72**	18.707	23.98 or 11+10log(B) = 23.89	PASS
116	5580	MCS0	12.64	18.365	23.98 or 11+10log(B) = 23.89	PASS
140	5700	MCS0	12.67	18.493	23.98 or 11+10log(B) = 23.98	PASS
144	5720(U-NII 2C)	MCS0	9.76	9.462	23.98 or 11+10log(B) = 22.80	PASS
144	5720 (U-NII 3)	MCS0	2.91	1.954	30	PASS
149	5745	MCS0	12.78	18.967	30	PASS
157	5785	MCS0	12.64	18.365	30	PASS
165	5825	MCS0	12.64	18.351	30	PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS0	12.52	12.24	15.63	34.614	23.98	PASS
44	5220	MCS0	12.48	12.29	15.63	34.644	23.98	PASS
48	5240	MCS0	12.54	12.24	15.64	34.697	23.98	PASS
52	5260	MCS0	12.52	12.28	15.65	34.769	23.98 or 11+10log(B) = 23.91	PASS
60	5300	MCS0	12.6	12.08	15.59	34.341	23.98 or 11+10log(B) = 23.88	PASS
64	5320	MCS0	12.64	12.13	15.64	34.696	23.98 or 11+10log(B) = 23.89	PASS
100	5500	MCS0	12.55	12	15.53	33.838	23.98 or 11+10log(B) = 23.89	PASS
116	5580	MCS0	12.66	11.89	15.54	33.903	23.98 or 11+10log(B) = 23.89	PASS
140	5700	MCS0	12.78	11.88	15.60	34.384	23.98 or 11+10log(B) = 23.91	PASS
144	5720(U-NII 2C)	MCS0	**9.89**	**9.12**	12.03	17.916	23.98 or 11+10log(B) = 22.61	PASS
144	5720 (U-NII 3)	MCS0	2.95	2.72	3.59	3.843	30	PASS
149	5745	MCS0	12.84	11.76	15.58	34.228	30	PASS
157	5785	MCS0	12.74	11.75	15.52	33.756	30	PASS
165	5825	MCS0	12.94	11.81	**15.66**	34.849	30	PASS

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802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	12.52	17.862	23.98	PASS
46	5230	MCS0	12.60	18.198	23.98	PASS
54	5270	MCS0	12.63	18.325	23.98 or 11+10log(B) = 27.01	PASS
62	5310	MCS0	12.67	18.494	23.98 or 11+10log(B) = 26.99	PASS
102	5510	MCS0	**12.71**	18.665	23.98 or 11+10log(B) = 26.97	PASS
110	5550	MCS0	12.69	18.580	23.98 or 11+10log(B) = 27.04	PASS
134	5670	MCS0	12.65	18.409	23.98 or 11+10log(B) = 27.09	PASS
142	5710(U-NII 2C)	MCS0	11.24	13.305	23.98 or 11+10log(B) = 26.59	PASS
142	5710 (U-NII 3)	MCS0	1.39	1.377	30	PASS
151	5755	MCS0	12.69	18.580	30	PASS
159	5795	MCS0	12.67	18.494	30	PASS

802.11ac_VHT40_CH1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	12.60	18.198	23.98	PASS
46	5230	MCS0	12.61	18.240	23.98	PASS
54	5270	MCS0	12.66	18.469	23.98 or 11+10log(B) = 26.97	PASS
62	5310	MCS0	**12.73**	18.751	23.98 or 11+10log(B) = 27.02	PASS
102	5510	MCS0	**12.71**	18.665	23.98 or 11+10log(B) = 26.99	PASS
110	5550	MCS0	12.69	18.580	23.98 or 11+10log(B) = 27.05	PASS
134	5670	MCS0	12.63	18.325	23.98 or 11+10log(B) = 27.04	PASS
142	5710(U-NII 2C)	MCS0	11.26	13.366	23.98 or 11+10log(B) = 26.54	PASS
142	5710 (U-NII 3)	MCS0	1.39	1.377	23.98	PASS
151	5755	MCS0	12.70	18.622	23.98	PASS
159	5795	MCS0	**12.73**	18.751	30	PASS

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802.11ac_VHT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS0	12.23	11.94	15.55	32.342	23.98	PASS
46	5230	MCS0	12.5	11.93	15.68	33.378	23.98	PASS
54	5270	MCS0	12.33	11.84	15.55	32.376	23.98 or 11+10log(B) = 26.97	PASS
62	5310	MCS0	12.48	11.72	15.58	32.560	23.98 or 11+10log(B) = 26.99	PASS
102	5510	MCS0	12.39	11.84	15.58	32.614	23.98 or 11+10log(B) = 26.97	PASS
110	5550	MCS0	12.63	11.86	15.72	33.669	23.98 or 11+10log(B) = 27.04	PASS
134	5670	MCS0	12.74	11.8	**15.76**	33.929	23.98 or 11+10log(B) = 27.04	PASS
142	5710(U-NII 2C)	MCS0	11.43	10.35	14.01	24.739	23.98 or 11+10log(B) = 26.54	PASS
142	5710 (U-NII 3)	MCS0	1.41	1.28	1.73	2.726	30	PASS
151	5755	MCS0	12.76	11.77	15.75	33.911	30	PASS
159	5795	MCS0	12.68	11.58	15.63	32.923	30	PASS

802.11ac_VHT80_CH0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	12.43	17.490	23.98	PASS
58	5290	MCS0	**12.95**	19.715	23.98 or 11+10log(B) = 30.14	PASS
106	5530	MCS0	10.95	12.439	23.98 or 11+10log(B) = 30.20	PASS
122	5610	MCS0	12.78	18.958	23.98 or 11+10log(B) = 30.16	PASS
138	5690(U-NII 2C)	MCS0	12.32	17.078	23.98 or 11+10log(B) = 30.00	PASS
138	5690 (U-NII 3)	MCS0	0.66	1.165	30	PASS
155	5775	MCS0	12.87	19.355	30	PASS

802.11ac_VHT80_CH1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	12.41	17.410	23.98	PASS
58	5290	MCS0	12.76	18.871	23.98 or 11+10log(B) = 30.13	PASS
106	5530	MCS0	10.90	12.297	23.98 or 11+10log(B) = 30.16	PASS
122	5610	MCS0	**12.99**	19.897	23.98 or 11+10log(B) = 30.23	PASS
138	5690(U-NII 2C)	MCS0	12.31	17.004	23.98 or 11+10log(B) = 29.96	PASS
138	5690 (U-NII 3)	MCS0	0.66	1.165	23.98	PASS
155	5775	MCS0	**12.99**	19.897	23.98	PASS

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802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS0	11.85	11.28	15.47	28.739	23.98	PASS
58	5290	MCS0	12.06	11.38	15.63	29.810	23.98 or 11+10log(B) = 30.13	PASS
106	5530	MCS0	10.63	9.52	14.01	20.515	23.98 or 11+10log(B) = 30.16	PASS
122	5610	MCS0	11.78	12.11	15.85	31.322	23.98 or 11+10log(B) = 30.16	PASS
138	5690(U-NII 2C)	MCS0	11.444	11.51	15.18	28.103	23.98 or 11+10log(B) = 29.96	PASS
138	5690 (U-NII 3)	MCS0	0.6161	0.6197	0.82	2.306	30	PASS
155	5775	MCS0	12.18	12.01	**15.99**	32.405	30	PASS

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Conducted output power (IC)

802.11a_CH0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	12.92	19.576	23.98 or 11+10log(B) = 23.12	PASS
60	5300	12.97	19.803	23.98 or 11+10log(B) = 23.11	PASS
64	5320	12.98	19.849	23.98 or 11+10log(B) = 23.12	PASS
100	5500	12.83	19.175	23.98 or 11+10log(B) = 23.12	PASS
116	5580	**12.99**	**19.895**	23.98 or 11+10log(B) = 23.11	PASS
140	5700	12.83	**19.175**	23.98 or 11+10log(B) = 23.12	PASS
149	5745	12.75	18.825	30	PASS
157	5785	**12.99**	**19.895**	30	PASS
165	5825	12.98	19.849	30	PASS

802.11a_CH1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	**12.97**	19.803	23.98 or 11+10log(B) = 23.12	PASS
60	5300	12.91	19.531	23.98 or 11+10log(B) = 23.11	PASS
64	5320	12.86	19.308	23.98 or 11+10log(B) = 23.11	PASS
100	5500	12.67	18.481	23.98 or 11+10log(B) = 23.11	PASS
116	5580	**12.99**	**19.895**	23.98 or 11+10log(B) = 23.13	PASS
140	5700	**12.82**	**19.131**	23.98 or 11+10log(B) = 23.12	PASS
149	5745	12.70	18.609	30	PASS
157	5785	**12.98**	**19.849**	30	PASS
165	5825	12.86	19.308	30	PASS

802.11a_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	12.94	12.54	**15.98**	**39.648**	23.98 or 11+10log(B) = 23.12	PASS
60	5300	12.97	12.5	15.98	39.619	23.98 or 11+10log(B) = 23.11	PASS
64	5320	12.98	12.4	15.94	39.240	23.98 or 11+10log(B) = 23.11	PASS
100	5500	12.95	12.27	15.86	**38.556**	23.98 or 11+10log(B) = 23.11	PASS
116	5580	12.99	12.22	15.86	38.545	23.98 or 11+10log(B) = 23.11	PASS
140	5700	12.98	11.96	15.74	**37.476**	23.98 or 11+10log(B) = 23.12	PASS
149	5745	12.99	12.18	15.84	**38.384**	30	PASS
157	5785	12.94	12.15	15.80	38.024	30	PASS
165	5825	12.97	12	15.75	37.581	30	PASS

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802.11n_HT20_CH0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	12.90	19.477	23.98 or 11+10log(B) = 23.41	PASS
60	5300	12.97	19.794	23.98 or 11+10log(B) = 23.40	PASS
64	5320	**12.98**	19.839	23.98 or 11+10log(B) = 23.42	PASS
100	5500	12.77	18.903	23.98 or 11+10log(B) = 23.41	PASS
116	5580	**12.90**	**19.477**	23.98 or 11+10log(B) = 23.41	PASS
140	5700	**12.83**	**19.166**	23.98 or 11+10log(B) = 23.41	PASS
144	5720(U-NII 2C)	9.81	9.572	23.98 or 11+11log(B) = 22.28	PASS
144	5720 (U-NII 3)	2.92	1.957	30	PASS
149	5745	**12.99**	**19.885**	30	PASS
157	5785	**12.99**	**19.885**	30	PASS
165	5825	12.94	19.658	30	PASS

802.11n_HT20_CH1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	**12.97**	19.794	23.98 or 11+10log(B) = 23.41	PASS
60	5300	12.87	19.343	23.98 or 11+10log(B) = 23.41	PASS
64	5320	12.88	19.388	23.98 or 11+10log(B) = 23.41	PASS
100	5500	**12.99**	**19.885**	23.98 or 11+10log(B) = 23.41	PASS
116	5580	12.98	19.839	23.98 or 11+10log(B) = 23.41	PASS
140	5700	**12.87**	**19.343**	23.98 or 11+10log(B) = 23.41	PASS
144	5720(U-NII 2C)	9.86	9.691	23.98 or 11+10log(B) = 22.28	PASS
144	5720 (U-NII 3)	2.93	1.964	30	PASS
149	5745	12.70	18.601	30	PASS
157	5785	**12.99**	**19.885**	30	PASS
165	5825	12.83	19.166	30	PASS

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802.11n_HT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	12.66	12.31	15.96	39.483	23.98 or 11+10log(B) = 23.41	PASS
60	5300	12.7	12.19	15.93	39.157	23.98 or 11+10log(B) = 23.40	PASS
64	5320	12.77	12.2	15.97	39.536	23.98 or 11+10log(B) = 23.41	PASS
100	5500	12.63	12	15.80	38.037	23.98 or 11+10log(B) = 23.41	PASS
116	5580	12.75	11.9	**15.82**	**38.206**	23.98 or 11+10log(B) = 23.41	PASS
140	5700	12.97	11.98	**15.98**	**39.616**	23.98 or 11+10log(B) = 23.41	PASS
144	5720(U-NII 2C)	10.01	9.228	12.32	17.073	23.98 or 11+10log(B) = 22.28	PASS
144	5720 (U-NII 3)	2.976	2.742	3.66	2.324	30	PASS
149	5745	12.98	11.99	**15.99**	**39.708**	30	PASS
157	5785	12.88	11.84	15.87	38.607	30	PASS
165	5825	12.96	11.92	15.95	39.325	30	PASS

802.11n_HT40_CH0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	**12.99**	**19.898**	23.98 or 11+10log(B) = 26.53	PASS
62	5310	**12.99**	**19.898**	23.98 or 11+10log(B) = 26.52	PASS
102	5510	12.95	19.716	23.98 or 11+10log(B) = 26.53	PASS
110	5550	**12.98**	**19.852**	23.98 or 11+10log(B) = 26.53	PASS
134	5670	**12.96**	**19.761**	23.98 or 11+10log(B) = 26.53	PASS
142	5710(U-NII 2C)	11.50	14.137	23.98 or 11+11log(B) = 26.03	PASS
142	5710 (U-NII 3)	1.40	1.382	30	PASS
151	5755	12.82	19.134	30	PASS
159	5795	**12.83**	**19.178**	30	PASS

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802.11n_HT40_CH1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	**12.98**	19.852	23.98 or 11+10log(B) = 26.53	PASS
62	5310	12.90	19.490	23.98 or 11+10log(B) = 26.52	PASS
102	5510	**12.85**	**19.267**	23.98 or 11+10log(B) = 26.53	PASS
110	5550	12.81	19.090	23.98 or 11+10log(B) = 26.53	PASS
134	5670	**12.96**	**19.761**	23.98 or 11+10log(B) = 26.53	PASS
142	5710(U-NII 2C)	11.48	14.050	23.98 or 11+10log(B) = 26.03	PASS
142	5710 (U-NII 3)	1.40	1.381	30	PASS
151	5755	12.80	19.046	30	PASS
159	5795	**12.99**	**19.898**	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	12.3	11.81	15.90	38.907	23.98 or 11+10log(B) = 26.53	PASS
62	5310	12.36	11.64	15.85	38.488	23.98 or 11+10log(B) = 26.52	PASS
102	5510	12.2	11.64	15.77	37.735	23.98 or 11+10log(B) = 26.53	PASS
110	5550	12.42	11.62	**15.88**	**38.697**	23.98 or 11+10log(B) = 26.53	PASS
134	5670	12.56	11.64	**15.96**	**39.470**	23.98 or 11+10log(B) = 26.53	PASS
142	5710(U-NII 2C)	11.27	10.32	14.25	26.588	23.98 or 11+10log(B) = 26.03	PASS
142	5710 (U-NII 3)	1.376	1.26	1.74	1.493	30	PASS
151	5755	12.6	11.54	**15.94**	**39.270**	30	PASS
159	5795	12.5	11.49	15.86	38.572	30	PASS

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802.11ac_VHT20_CH0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	12.69	18.563	23.98 or 11+10log(B) = 23.41	PASS
60	5300	12.69	18.563	23.98 or 11+10log(B) = 23.40	PASS
64	5320	**12.73**	18.735	23.98 or 11+10log(B) = 23.42	PASS
100	5500	12.55	17.974	23.98 or 11+10log(B) = 23.41	PASS
116	5580	**12.71**	**18.649**	23.98 or 11+10log(B) = 23.41	PASS
140	5700	**12.59**	**18.141**	23.98 or 11+10log(B) = 23.41	PASS
144	5720(U-NII 2C)	9.64	9.204	23.98 or 11+11log(B) = 22.28	PASS
144	5720 (U-NII 3)	2.88	1.941	30	PASS
149	5745	12.84	19.215	30	PASS
157	5785	**12.87**	**19.349**	30	PASS
165	5825	12.79	18.995	30	PASS

802.11ac_VHT20_CH1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	12.62	18.281	23.98 or 11+10log(B) = 23.41	PASS
60	5300	12.68	18.535	23.98 or 11+10log(B) = 23.41	PASS
64	5320	**12.74**	18.793	23.98 or 11+10log(B) = 23.41	PASS
100	5500	**12.72**	**18.707**	23.98 or 11+10log(B) = 23.41	PASS
116	5580	12.64	18.365	23.98 or 11+10log(B) = 23.41	PASS
140	5700	**12.67**	**18.493**	23.98 or 11+10log(B) = 23.41	PASS
144	5720(U-NII 2C)	9.76	9.462	23.98 or 11+10log(B) = 22.28	PASS
144	5720 (U-NII 3)	2.91	1.954	30	PASS
149	5745	**12.78**	**18.967**	30	PASS
157	5785	12.64	18.365	30	PASS
165	5825	12.64	18.351	30	PASS

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802.11ac_VHT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	12.52	12.28	15.65	36.715	23.98 or 11+10log(B) = 23.41	PASS
60	5300	12.6	12.08	15.59	36.263	23.98 or 11+10log(B) = 23.40	PASS
64	5320	12.64	12.13	15.64	36.638	23.98 or 11+10log(B) = 23.41	PASS
100	5500	12.55	12	15.53	35.731	23.98 or 11+10log(B) = 23.41	PASS
116	5580	12.66	11.89	**15.54**	**35.800**	23.98 or 11+10log(B) = 23.41	PASS
140	5700	12.78	11.88	**15.60**	**36.308**	23.98 or 11+10log(B) = 23.41	PASS
144	5720(U-NII 2C)	9.89	9.12	12.03	15.959	23.98 or 11+10log(B) = 22.28	PASS
144	5720 (U-NII 3)	2.95	2.72	3.59	2.286	30	PASS
149	5745	12.84	11.76	15.58	36.143	30	PASS
157	5785	12.74	11.75	15.52	35.645	30	PASS
165	5825	12.94	11.81	**15.66**	**36.800**	30	PASS

802.11ac_VHT40_CH0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	12.63	18.325	23.98 or 11+10log(B) = 26.53	PASS
62	5310	**12.67**	18.494	23.98 or 11+10log(B) = 26.52	PASS
102	5510	**12.71**	**18.665**	23.98 or 11+10log(B) = 26.53	PASS
110	5550	12.69	18.580	23.98 or 11+10log(B) = 26.53	PASS
134	5670	**12.65**	**18.409**	23.98 or 11+10log(B) = 26.53	PASS
142	5710(U-NII 2C)	11.24	13.305	23.98 or 11+11log(B) = 26.03	PASS
142	5710 (U-NII 3)	1.39	1.377	30	PASS
151	5755	**12.69**	**18.580**	30	PASS
159	5795	12.67	18.494	30	PASS

802.11ac_VHT40_CH1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	12.66	18.469	23.98 or 11+10log(B) = 26.53	PASS
62	5310	**12.73**	**18.751**	23.98 or 11+10log(B) = 26.52	PASS
102	5510	**12.71**	**18.665**	23.98 or 11+10log(B) = 26.53	PASS
110	5550	12.69	18.580	23.98 or 11+10log(B) = 26.53	PASS
134	5670	**12.63**	**18.325**	23.98 or 11+10log(B) = 26.53	PASS
142	5710(U-NII 2C)	11.26	13.366	23.98 or 11+10log(B) = 26.03	PASS
142	5710 (U-NII 3)	1.39	1.377	30	PASS
151	5755	12.70	18.622	30	PASS
159	5795	**12.73**	**18.751**	30	PASS

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802.11ac_VHT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	12.33	11.84	15.55	35.913	23.98 or 11+10log(B) = 26.53	PASS
62	5310	12.48	11.72	15.58	36.118	23.98 or 11+10log(B) = 26.52	PASS
102	5510	12.39	11.84	15.58	36.177	23.98 or 11+10log(B) = 26.53	PASS
110	5550	12.63	11.86	**15.72**	**37.348**	23.98 or 11+10log(B) = 26.53	PASS
134	5670	12.74	11.8	**15.76**	**37.636**	23.98 or 11+10log(B) = 26.53	PASS
142	5710(U-NII 2C)	11.43	10.35	14.01	25.177	23.98 or 11+10log(B) = 26.03	PASS
142	5710 (U-NII 3)	1.41	1.28	1.73	1.489	30	PASS
151	5755	12.76	11.77	**15.75**	**37.617**	30	PASS
159	5795	12.68	11.58	15.63	36.521	30	PASS

802.11ac_VHT80_CH0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	**12.95**	**19.715**	23.98 or 11+10log(B) = 29.75	PASS
106	5530	10.95	12.439	23.98 or 11+10log(B) = 29.75	PASS
122	5610	**12.78**	**18.958**	23.98 or 11+11log(B) = 29.76	PASS
138	5690(U-NII 2C)	12.32	17.078	23.98 or 11+12log(B) = 29.52	PASS
138	5690 (U-NII 3)	0.66	1.165	30	PASS
155	5775	**12.87**	**19.355**	30	PASS

802.11ac_VHT80_CH1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	**12.76**	18.871	23.98 or 11+10log(B) = 29.75	PASS
106	5530	10.90	12.297	23.98 or 11+10log(B) = 29.75	PASS
122	5610	**12.99**	**19.897**	23.98 or 11+10log(B) = 29.75	PASS
138	5690(U-NII 2C)	12.31	17.004	23.98 or 11+10log(B) = 29.52	PASS
138	5690 (U-NII 3)	0.66	1.165	30	PASS
155	5775	**12.99**	**19.897**	30	PASS

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802.11ac_VHT80_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
		CH 0	CH 1						
58	5290	12.06	11.38	**15.63**	36.572	23.98	or 11+10log(B) =	29.75	PASS
106	5530	10.63	9.52	14.01	25.168	23.98	or 11+10log(B) =	29.75	PASS
122	5610	11.78	12.11	**15.85**	**38.427**	23.98	or 11+10log(B) =	29.75	PASS
138	5690(U-NII 2C)	11.44	11.51	15.18	32.933	23.98	or 11+10log(B) =	29.52	PASS
138	5690 (U-NII 3)	0.616	0.62	0.82	1.207	30			PASS
155	5775	12.18	12.01	**15.99**	**39.756**	30			PASS

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EIRP

802.11a_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
36	5180	15.94	3.865	19.80	95.592	23.01	or 10+10log(B)=	22.12	PASS
44	5220	15.83	3.865	19.69	93.140	23.01	or 10+10log(B)=	22.12	PASS
48	5240	**15.99**	3.865	**19.86**	**96.743**	23.01	or 10+10log(B)=	22.12	PASS
52	5260	**15.98**	4.514	**20.50**	**112.117**	30	or 17+10log(B)=	29.12	PASS
60	5300	15.98	4.514	20.49	112.033	30	or 17+10log(B)=	29.11	PASS
64	5320	15.94	4.514	20.45	110.963	30	or 17+10log(B)=	29.11	PASS
100	5500	**15.86**	5.146	**21.01**	**126.095**	30	or 17+10log(B)=	29.11	PASS
116	5580	15.86	5.146	21.01	126.059	30	or 17+10log(B)=	29.11	PASS
140	5700	**15.74**	5.146	**20.88**	**122.562**	30	or 17+10log(B)=	29.12	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
36	5180	15.98	3.865	19.85	96.590	23.01	or 10+10log(B)=	22.40	PASS
44	5220	15.91	3.865	19.77	94.896	23.01	or 10+10log(B)=	22.41	PASS
48	5240	**15.99**	3.865	**19.85**	**96.681**	23.01	or 10+10log(B)=	22.40	PASS
52	5260	15.96	4.514	20.48	111.650	30	or 17+10log(B)=	29.41	PASS
60	5300	15.93	4.514	20.44	110.727	30	or 17+10log(B)=	29.40	PASS
64	5320	**15.97**	4.514	**20.48**	**111.800**	30	or 17+10log(B)=	29.41	PASS
100	5500	15.80	5.146	20.95	124.396	30	or 17+10log(B)=	29.41	PASS
116	5580	**15.82**	5.146	**20.97**	**124.952**	30	or 17+10log(B)=	29.41	PASS
140	5700	**15.98**	5.146	**21.12**	**129.563**	30	or 17+10log(B)=	29.41	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
38	5190	**15.99**	3.865	**19.85**	**96.667**	23.01	or 10+10log(B)=	25.53	PASS
46	5230	15.90	3.865	19.76	94.718	23.01	or 10+10log(B)=	25.53	PASS
54	5270	**15.90**	4.514	**20.41**	**110.021**	30	or 17+10log(B)=	32.53	PASS
62	5310	15.85	4.514	20.37	108.837	30	or 17+10log(B)=	32.52	PASS
102	5510	15.77	5.146	20.91	123.409	30	or 17+10log(B)=	32.53	PASS
110	5550	**15.88**	5.146	**21.02**	**126.557**	30	or 17+10log(B)=	32.53	PASS
134	5670	**15.96**	5.146	**21.11**	**129.085**	30	or 17+10log(B)=	32.53	PASS

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802.11ac_VHT80_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
42	5210	**15.47**	3.865	**19.34**	**85.857**	23.01	or 10+10log(B)=	28.75	PASS
58	5290	**15.63**	4.514	**20.15**	**103.418**	30	or 17+10log(B)=	35.75	PASS
106	5530	**14.01**	5.146	**19.15**	**82.312**	30	or 17+10log(B)=	35.75	PASS

9.6 Some channels have reduced power and were tested at the reduced power

802.11	Channel list for power reduction	Power value (dBm)
ac_VHT80	Channel 42	15.47
	Channel 58	15.63
	Channel 106	14.00

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10 PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

OPERATION 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

IC

OPERATION 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

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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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. User the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

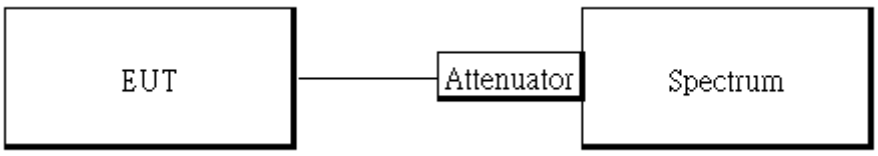
Note: For the test of PSD at MIMO mode, the highest emission of worst case employing

Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Main that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

10.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
DC Block	PASTERNACK	PE8210	RF29	2017/12/26	2018/12/25
Notebook	Lenovo	L420	S0011721	N/A	N/A

10.4 Test Set-up



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10.5 Measurement Result

POWER DENSITY 802.11a MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	3.38	14.00	0.23	3.61	11	-7.39
5220	3.55	14.00	0.23	3.78	11	-7.22
5240	2.68	14.00	0.23	2.91	11	-8.09
5260	3.64	14.00	0.23	3.87	11	-7.13
5300	2.99	14.00	0.23	3.22	11	-7.78
5320	1.09	14.00	0.23	1.32	11	-9.68
5500	3.77	14.00	0.23	4.00	11	-7.00
5580	2.10	14.00	0.23	2.33	11	-8.67
5700	3.63	14.00	0.23	3.86	11	-7.14
5745	10.30	14.00	0.23	10.30	30	-19.70
5785	9.54	14.00	0.23	9.54	30	-20.46
5825	9.66	14.00	0.23	9.66	30	-20.34

POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	1.82	14.00	0.46	2.28	11	-8.72
5220	-1.28	14.00	0.46	-0.82	11	-11.82
5240	2.15	14.00	0.46	2.61	11	-8.39
5260	2.01	14.00	0.46	2.47	11	-8.53
5300	2.43	14.00	0.46	2.89	11	-8.11
5320	0.09	14.00	0.46	0.55	11	-10.45
5500	2.29	14.00	0.46	2.75	11	-8.25
5580	2.82	14.00	0.46	3.28	11	-7.72
5700	2.24	14.00	0.46	2.70	11	-8.30
5720 (U-NII 2C)	0.69	14.00	0.46	1.15	11	-9.85
5720 (U-NII 3)	-2.95	14.00	0.46	-2.49	30	-32.49
5745	9.67	14.00	0.46	9.67	30	-20.33
5785	9.46	14.00	0.46	9.46	30	-20.54
5825	9.52	14.00	0.46	9.52	30	-20.48

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POWER DENSITY 802.11n HT40 MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-3.92	14.00	0.83	-3.09	11	-14.09
5230	-3.57	14.00	0.83	-2.74	11	-13.74
5270	-2.34	14.00	0.83	-1.51	11	-12.51
5310	-3.91	14.00	0.83	-3.08	11	-14.08
5510	-2.96	14.00	0.83	-2.13	11	-13.13
5550	-4.08	14.00	0.83	-3.25	11	-14.25
5670	-4.02	14.00	0.83	-3.19	11	-14.19
5710 (U-NII 2C)	-4.95	14.00	0.83	-4.12	11	-15.12
5710 (U-NII 3)	-9.90	14.00	0.83	-9.07	30	-39.07
5755	6.59	14.00	0.83	6.59	30	-23.41
5795	6.63	14.00	0.83	6.63	30	-23.37

POWER DENSITY 802.11ac VHT80 MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-2.83	14.00	0.89	-1.94	11	-12.94
5290	-3.61	14.00	0.89	-2.72	11	-13.72
5530	-3.86	14.00	0.89	-2.97	11	-13.97
5610	-5.77	14.00	0.89	-4.88	11	-15.88
5690 (U-NII 2C)	-7.55	14.00	0.89	-6.66	11	-17.66
5690 (U-NII 3)	-12.15	14.00	0.89	-11.27	30	-41.27
5775	5.68	14.00	0.89	5.68	30	-24.32

EIRP spectral density 802.11a MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	3.61	3.87	7.47	10	-2.53
5220	3.78	3.87	7.64	10	-2.36
5240	2.91	3.87	6.77	10	-3.23

EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	2.28	3.87	6.15	10	-3.85
5220	-0.82	3.87	3.05	10	-6.95
5240	2.61	3.87	6.48	10	-3.52

EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-3.09	1.26	-1.83	10	-11.83
5220	-2.74	1.26	-1.48	10	-11.48

EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-1.94	1.26	-0.68	10	-10.68

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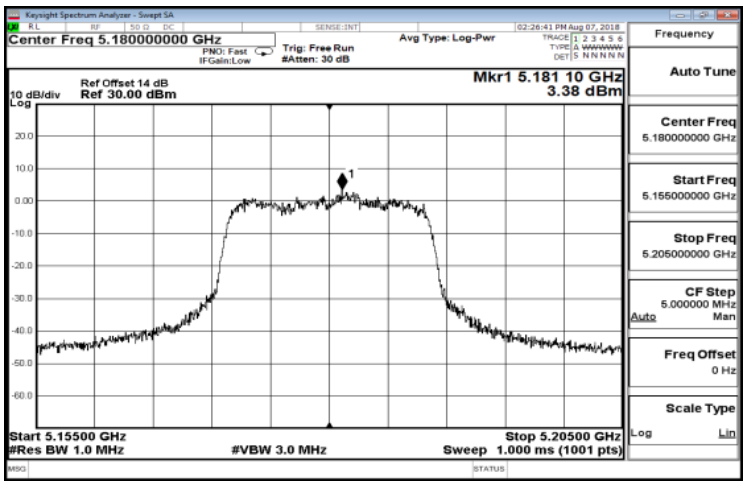
802.11a_20MHz_5180MHz



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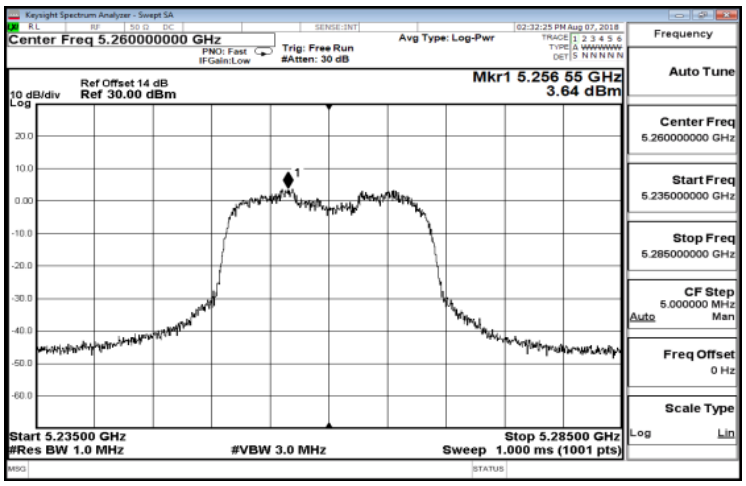

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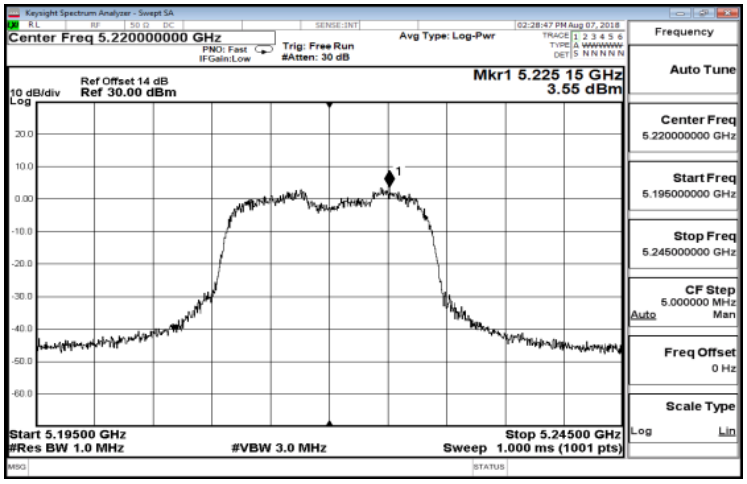

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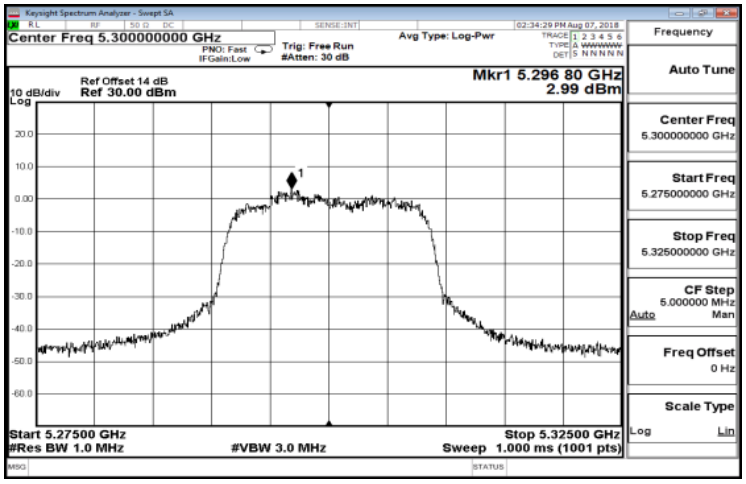

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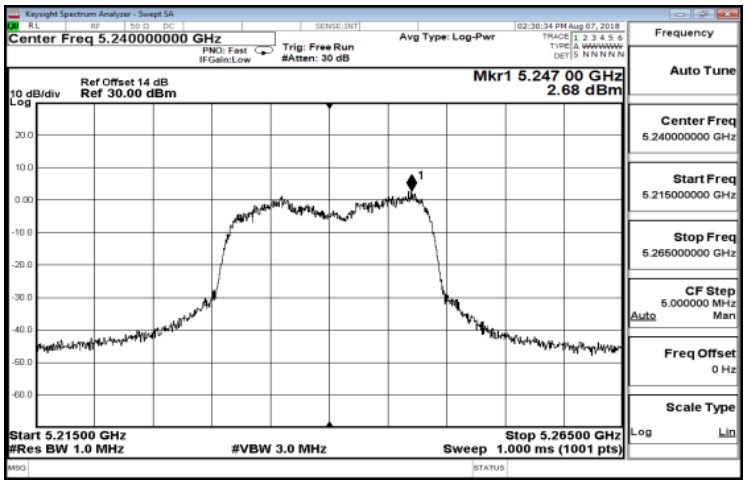

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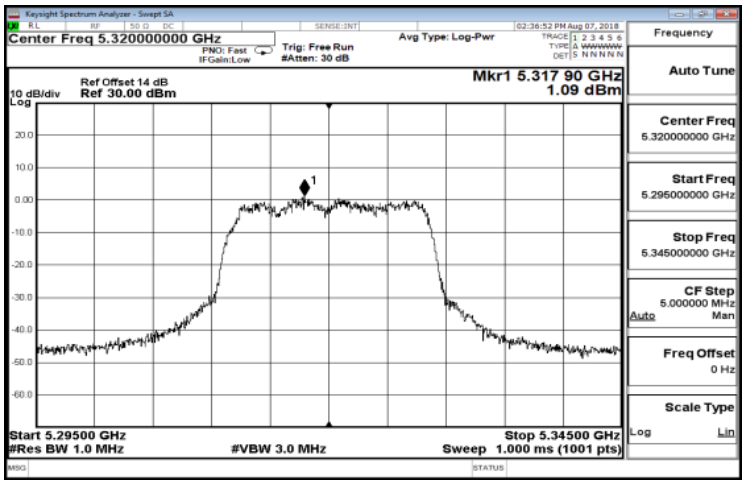

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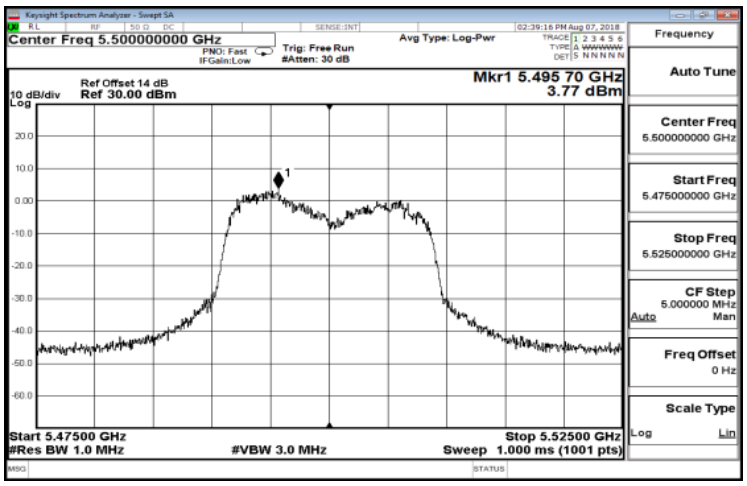
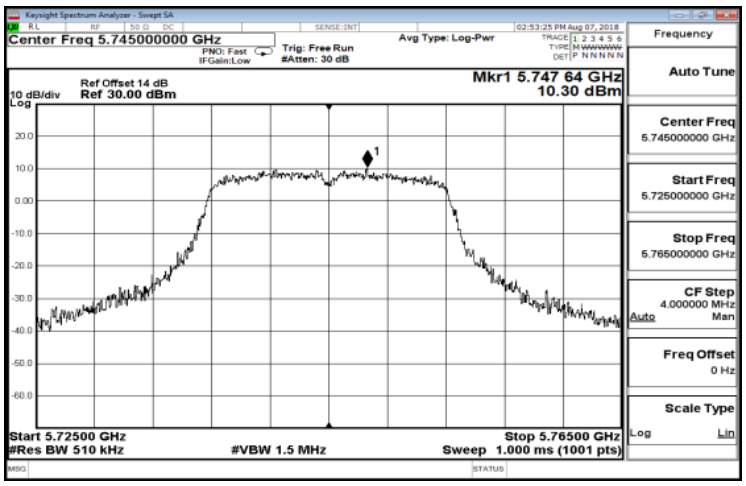
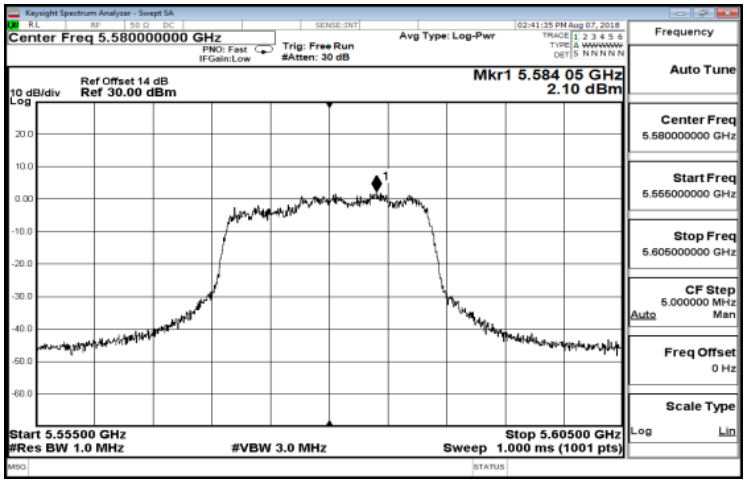
802.11a_20MHz_5500MHz



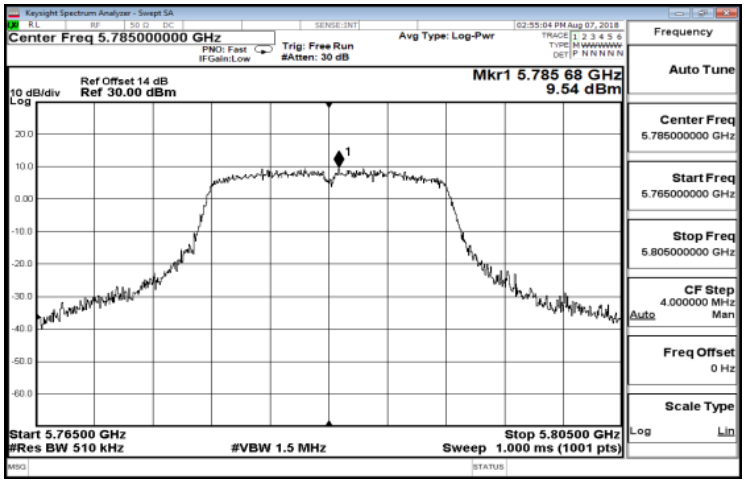
802.11a_20MHz_5745MHz



802.11a_20MHz_5580MHz



802.11a_20MHz_5785MHz



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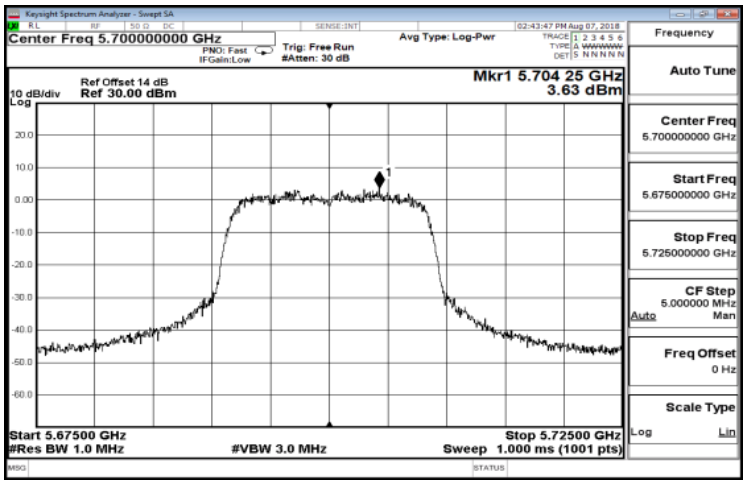

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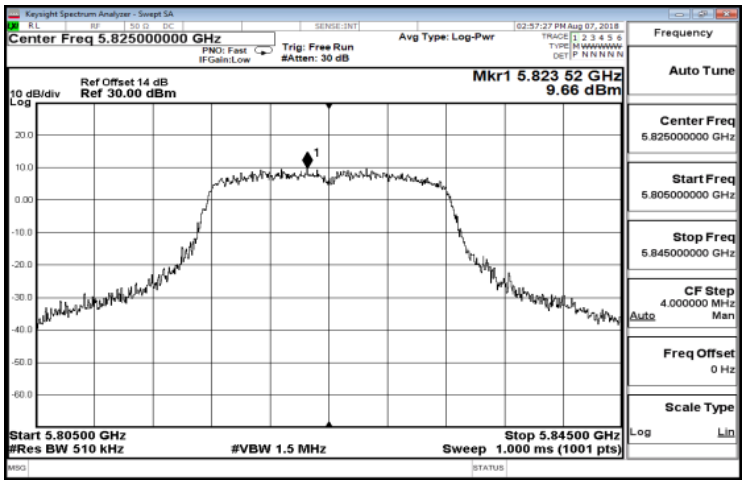

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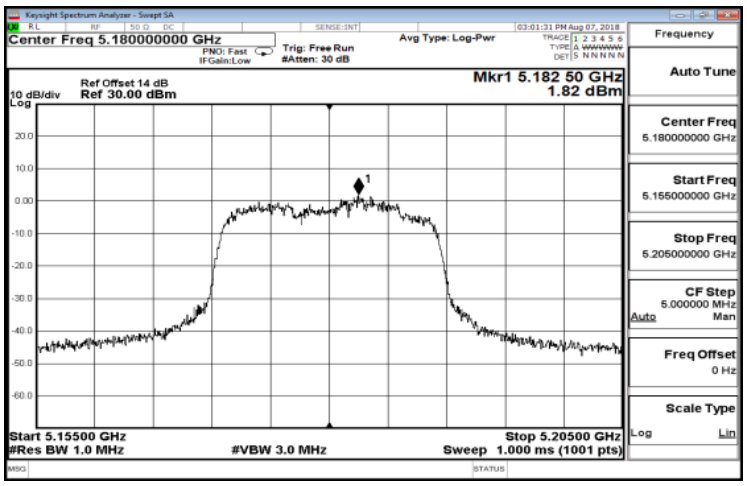
802.11n_20MHz_5180MHz



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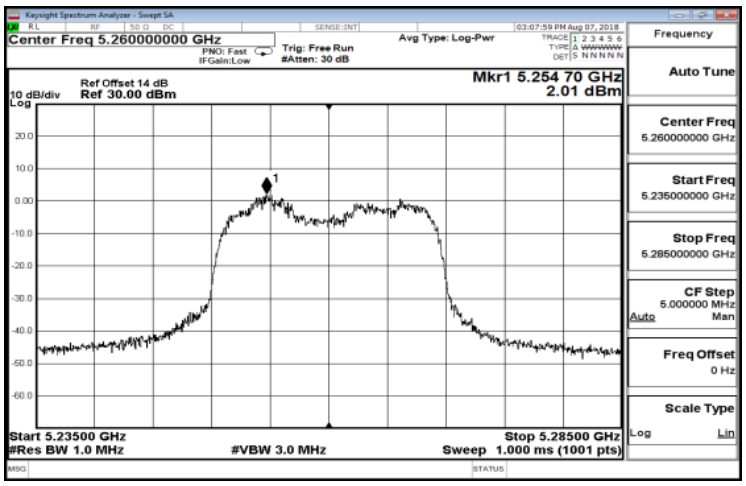
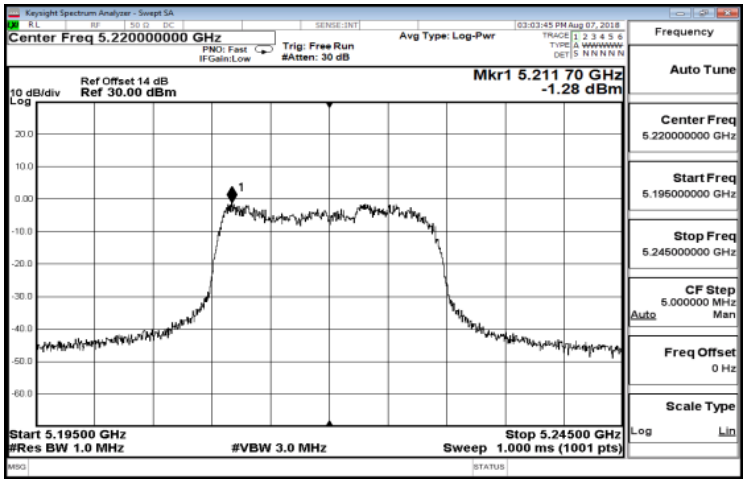
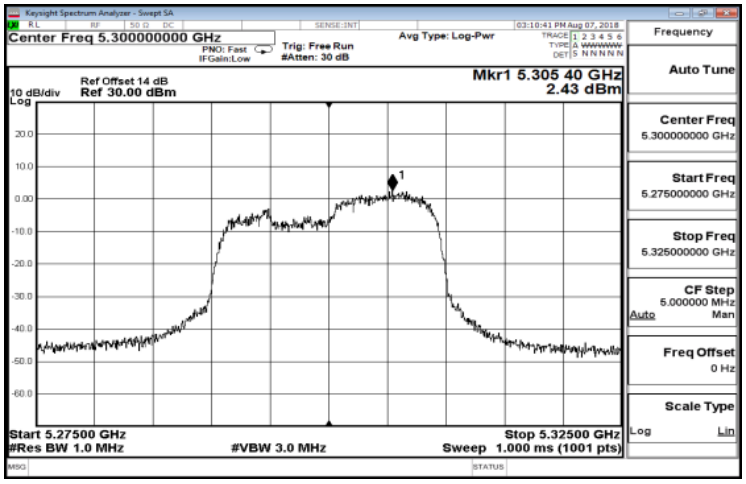


802.11n_20MHz_5220MHz



802.11n_20MHz_5300MHz



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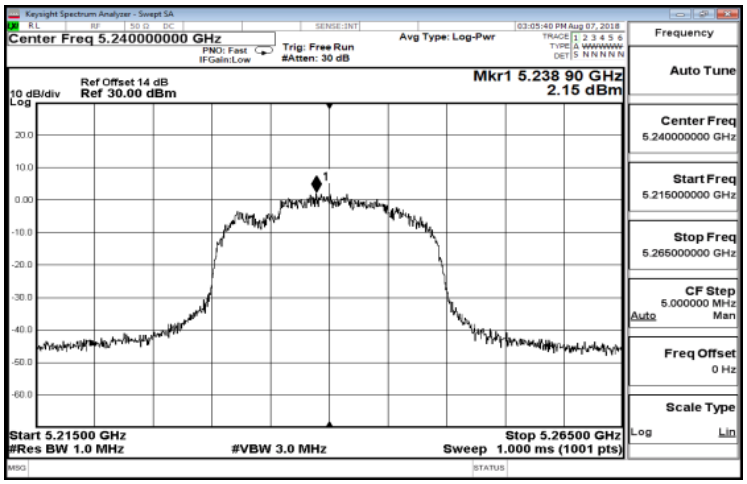
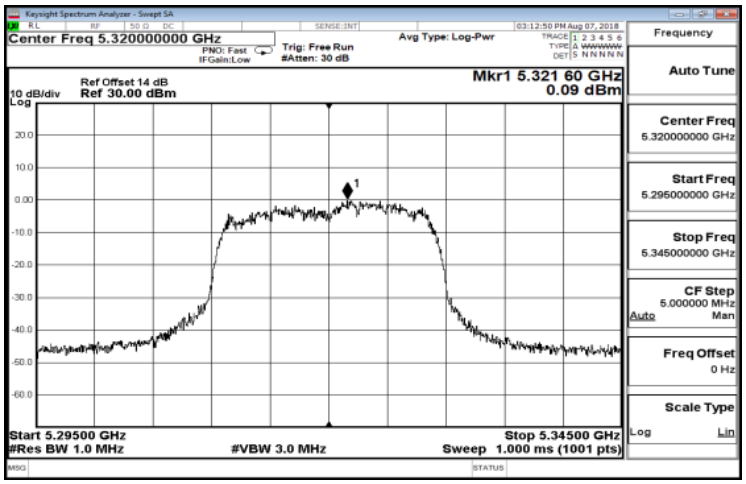


802.11n_20MHz_5320MHz



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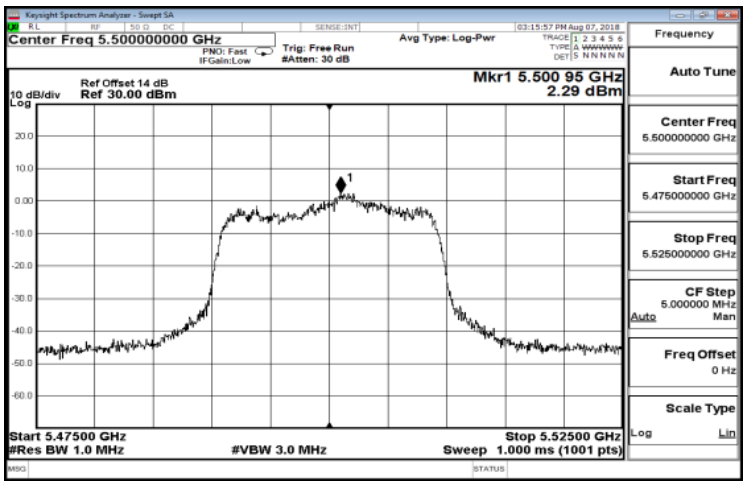
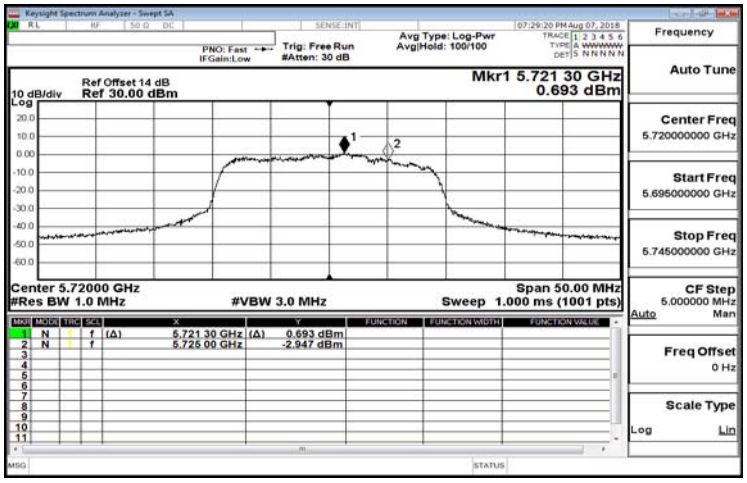
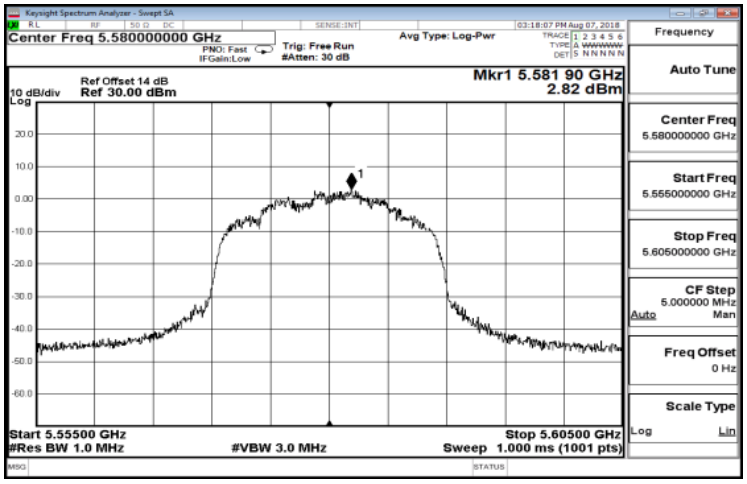
802.11n_20MHz_5500MHz



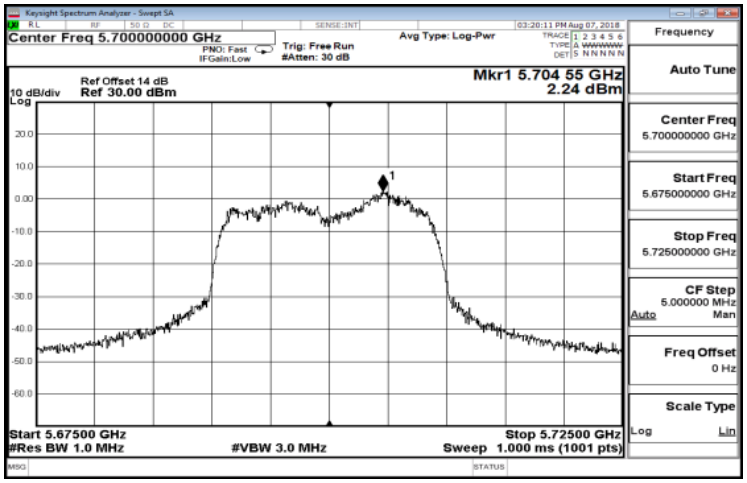
802.11n_20MHz_5720MHz



802.11n_20MHz_5580MHz



802.11n_20MHz_5700MHz



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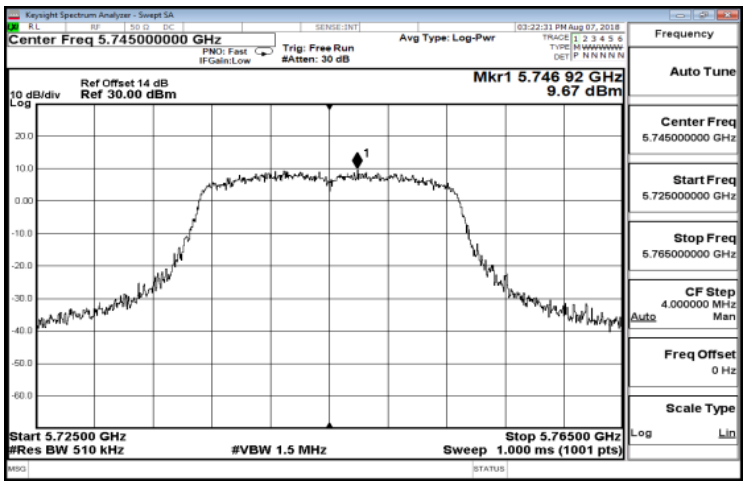
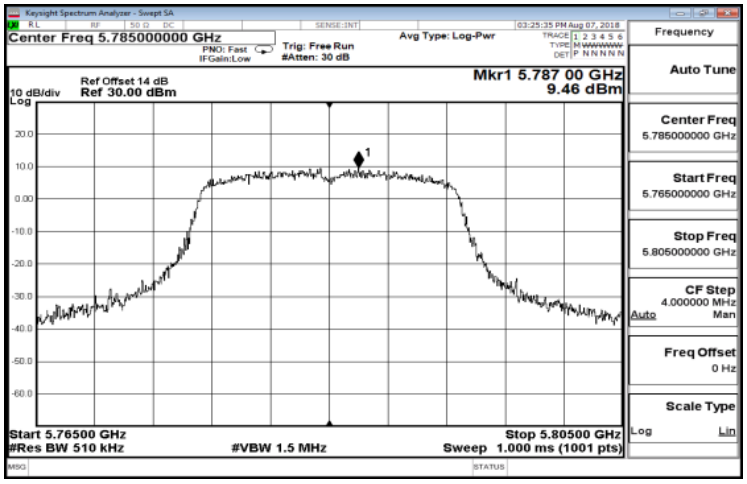
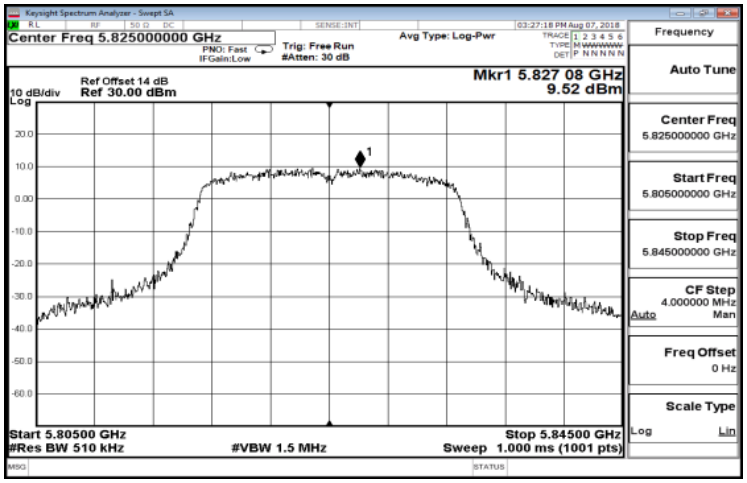
802.11n_20MHz_5745MHz



802.11n_20MHz_5785MHz



802.11n_20MHz_5825MHz



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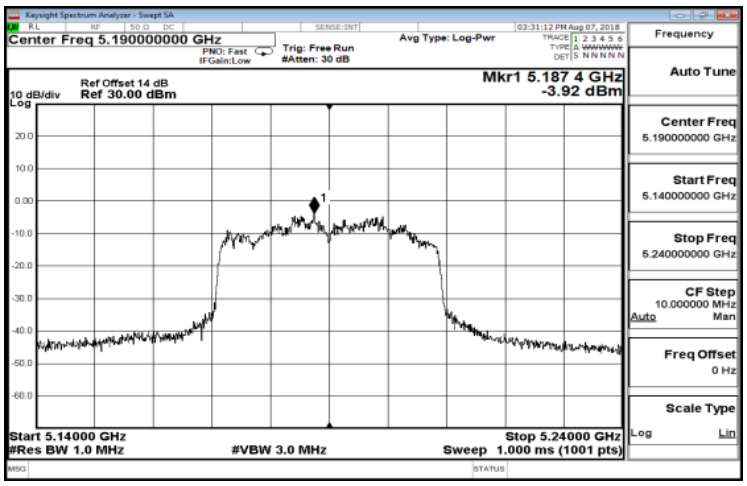
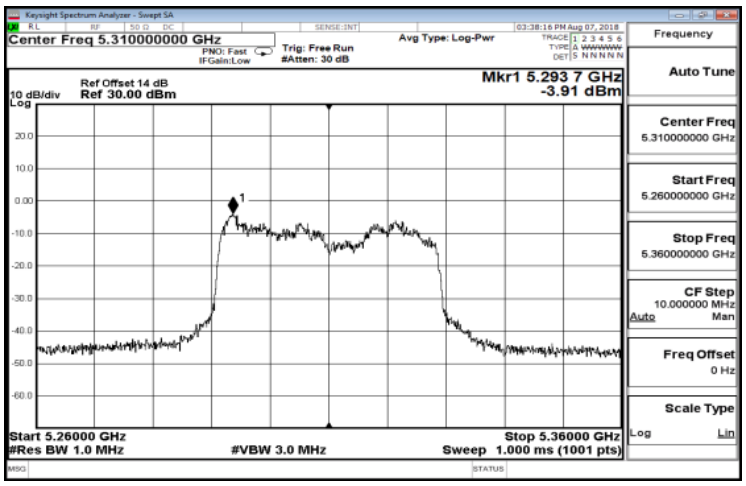
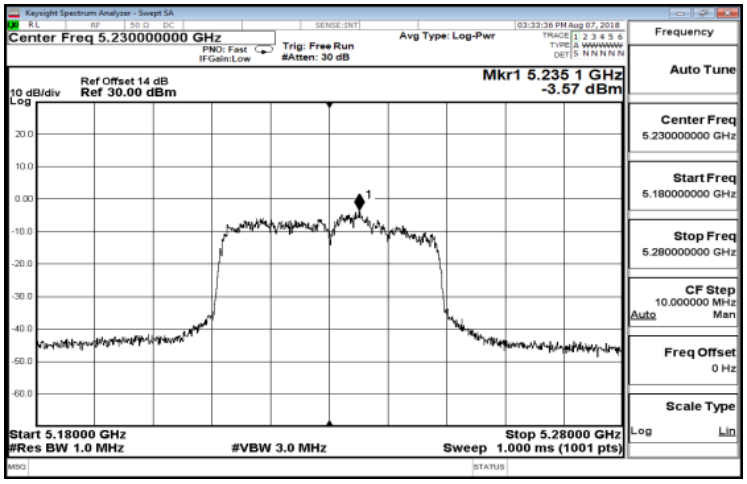
802.11n_40MHz_5190MHz



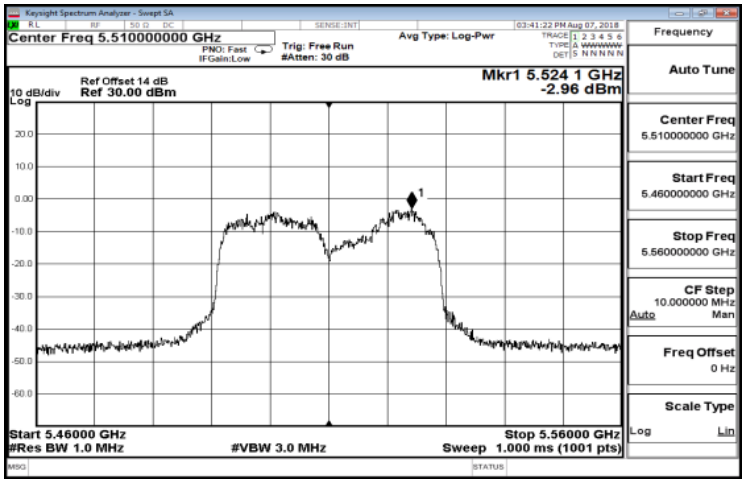
802.11n_40MHz_5310MHz



802.11n_40MHz_5230MHz



802.11n_40MHz_5510MHz



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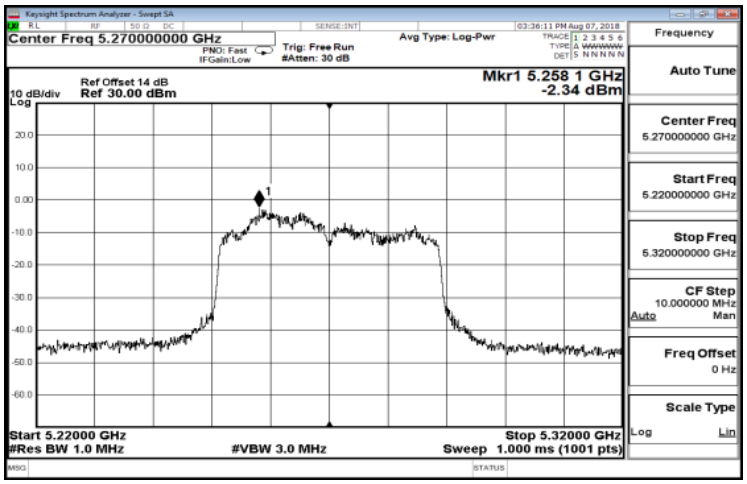

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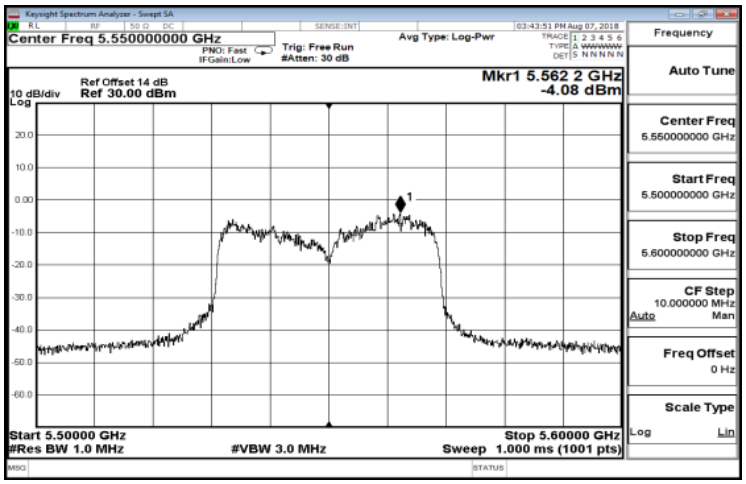

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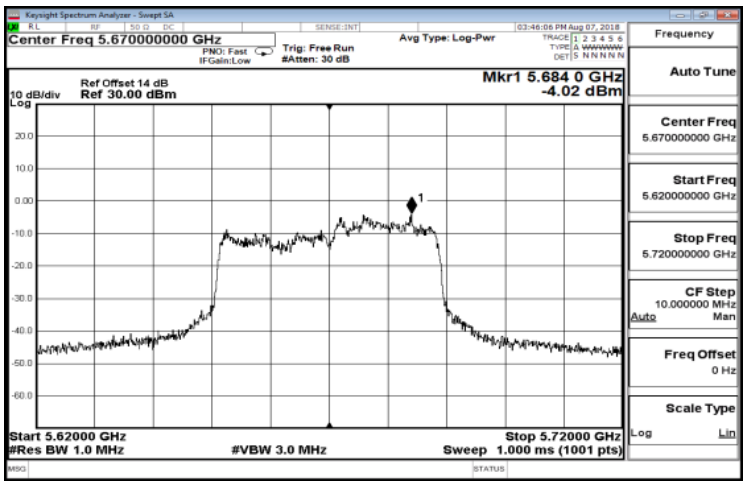
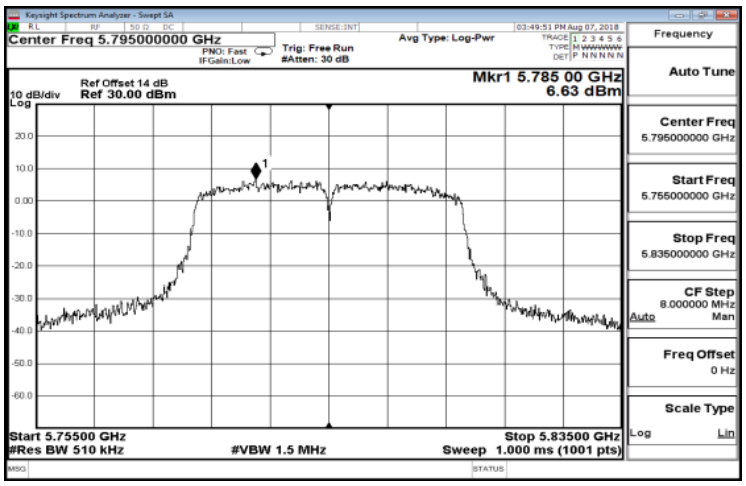
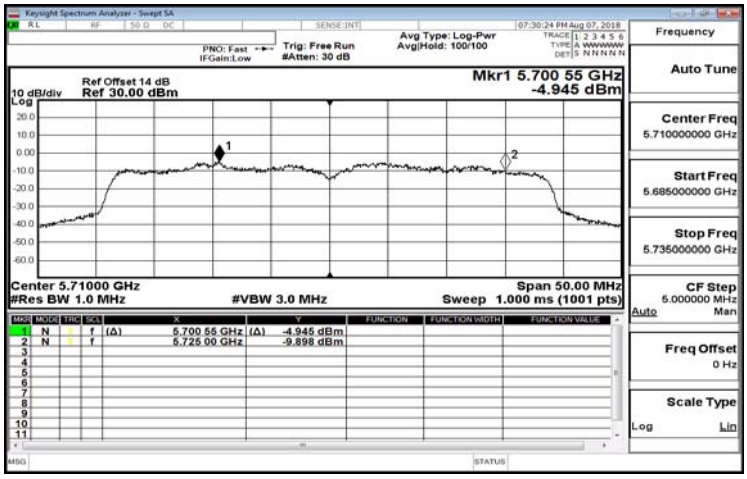
802.11n_40MHz_5670MHz



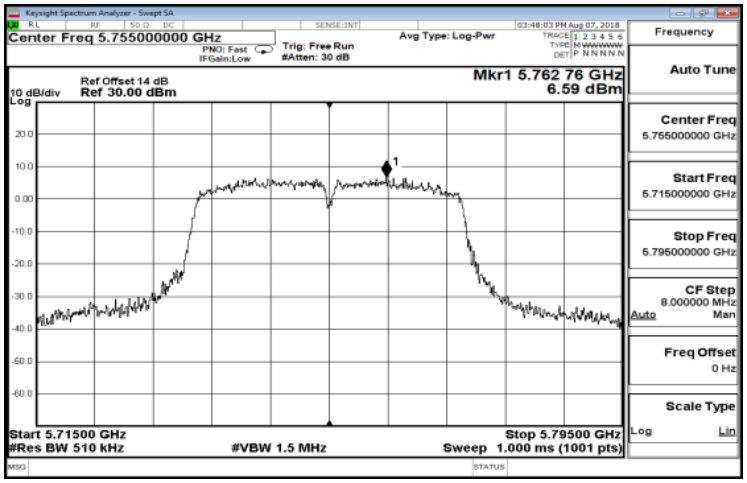
802.11n_40MHz_5795MHz



802.11n_40MHz_5710MHz



802.11n_40MHz_5755MHz



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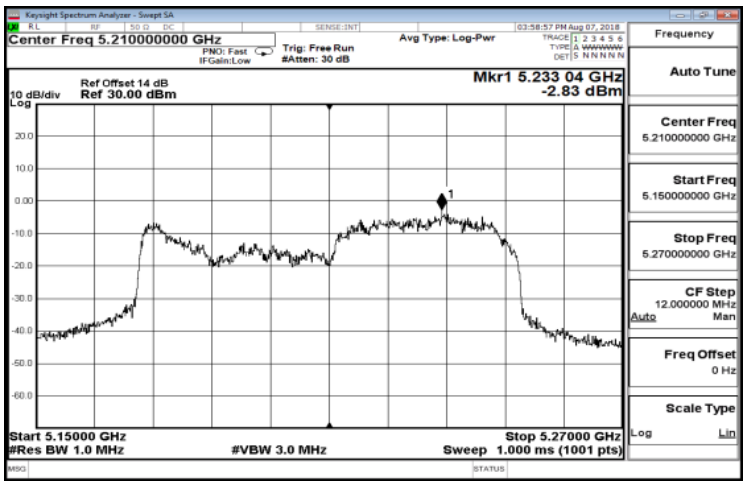
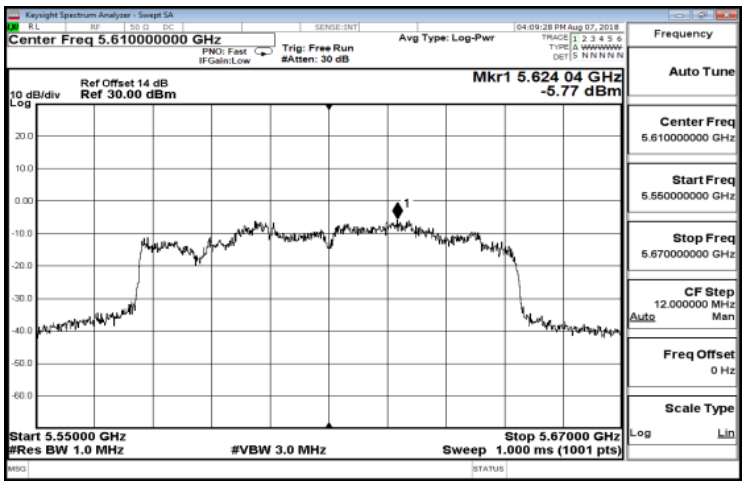
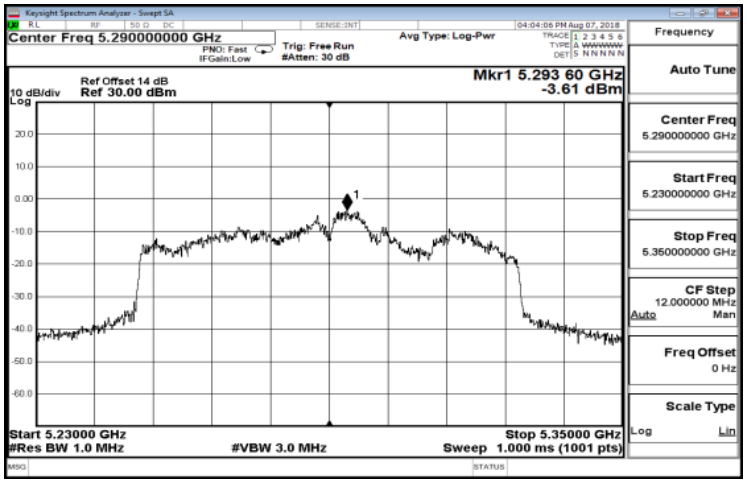
802.11ac_80MHz_5210MHz



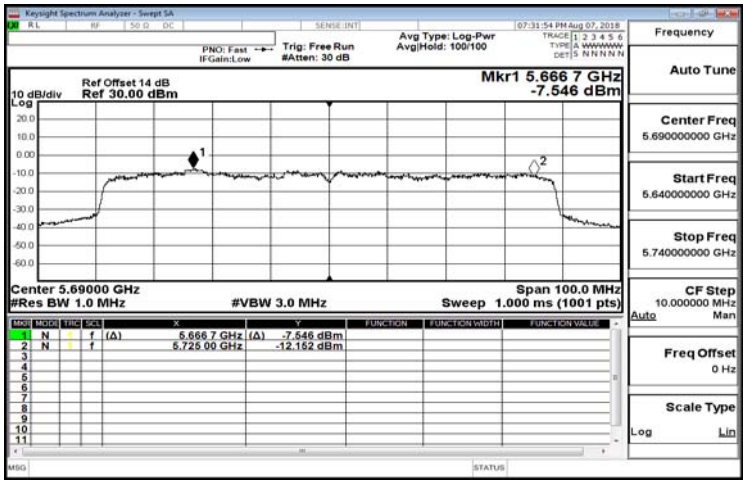
802.11ac_80MHz_5610MHz



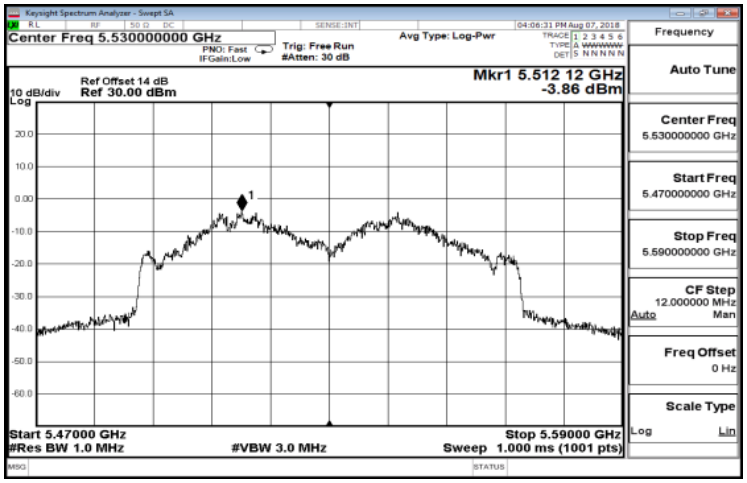
802.11ac_80MHz_5290MHz



802.11ac_80MHz_5690MHz



802.11ac_80MHz_5530MHz



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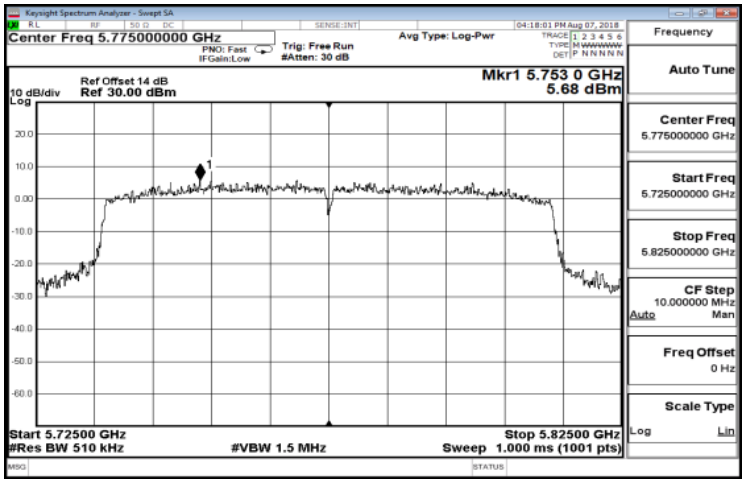

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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

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

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV 54 (dBμV/m)
APPLICABLE TO	**EIRP LIMIT**	**FIELD STRENGTH AT 3m**
15.407(b)(1) RSS-247 6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2) RSS-247 6.2.2.2		
15.407(b)(3) RSS-247 6.2.3.2		
15.407(b)(4)(i) RSS-247 6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

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

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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)

11.2 Measurement Equipment Used

SGS SAC-III					
Name of Equip-ment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	2017/10/27	2018/10/26
Horn Antenna	Schwarzbeck	BBHA9120D	1341	2018/06/07	2019/06/06
Loop Antenna	ETS.LINDGREN	6502	148045	2017/09/26	2018/09/25
3m Site NSA	SGS	966 chamber D	N/A	2018/07/06	2019/07/05
Spectrum Analyzer	Agilent	N9010A	MY53400256	2017/10/30	2018/10/29
Pre-Amplifier	EMC Instruments	EMC184045B	980135	2017/10/27	2018/10/26
Pre-Amplifier	EMC Instruments	EMC9135	980234	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	2017/12/26	2018/12/25
Attenuator	Marvelous	WATT-218FS-10	RF246	2017/12/26	2018/12/25
DC Block	PASTERNACK	PE8210	RF81	2017/12/26	2018/12/25
Band Rejection Filter	Micro-Tronics	G015	RF100	2017/12/26	2018/12/25
Band Rejection Filter	Micro-Tronics	G016	RF101	2017/12/26	2018/12/25
Band Rejection Filter	Micro-Tronics	G021	RF102	2017/12/26	2018/12/25
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	2017/12/26	2018/12/25
Notebook	Lenovo	L420	S0012467	N/A	N/A

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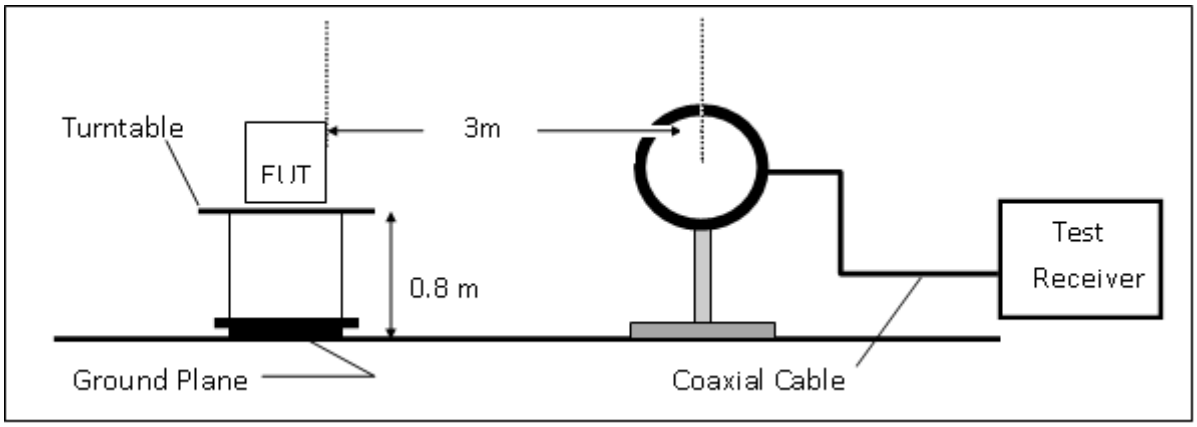
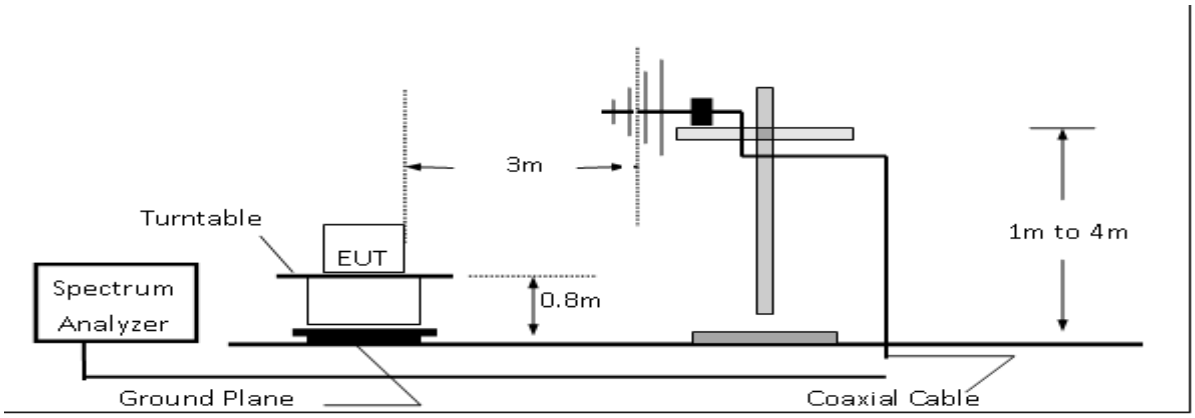
11.3 Test SET-UP

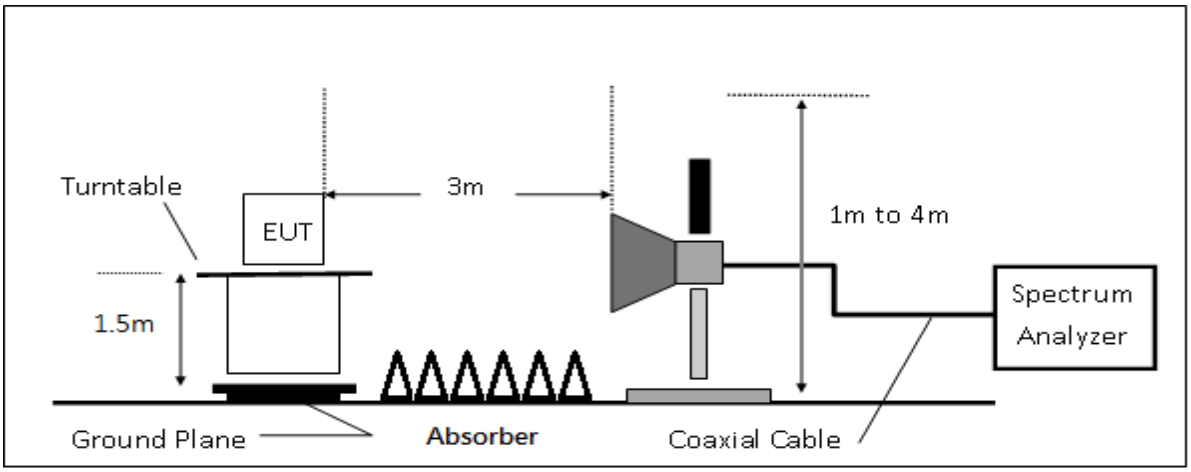
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

11.5 Field Strength Calculation

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

FS = RA + AF + CL - AG

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

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

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

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

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site. And there is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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

11.7 Measurement Result

Note: WLAN/BT coexistence cases were investigated and there are no new emissions to report.

Refer to next page spectrum analyzer data chart and tabular data sheets.

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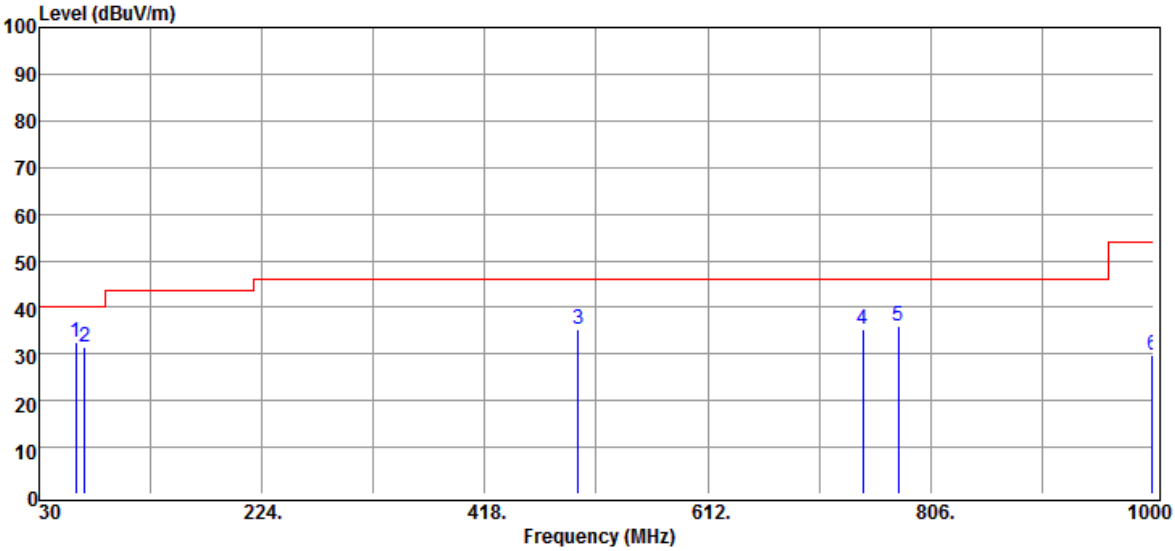
Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Mode	:802.11a / Band1	Test Date	:2018-08-08
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5220 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
62.01	Peak	50.44	-17.98	32.46	40.00	-7.54
69.77	Peak	50.82	-19.43	31.39	40.00	-8.61
499.48	Peak	46.27	-11.13	35.14	46.00	-10.86
746.83	Peak	42.28	-6.84	35.44	46.00	-10.56
777.87	Peak	42.91	-7.06	35.85	46.00	-10.15
999.03	Peak	33.52	-3.78	29.74	54.00	-24.26

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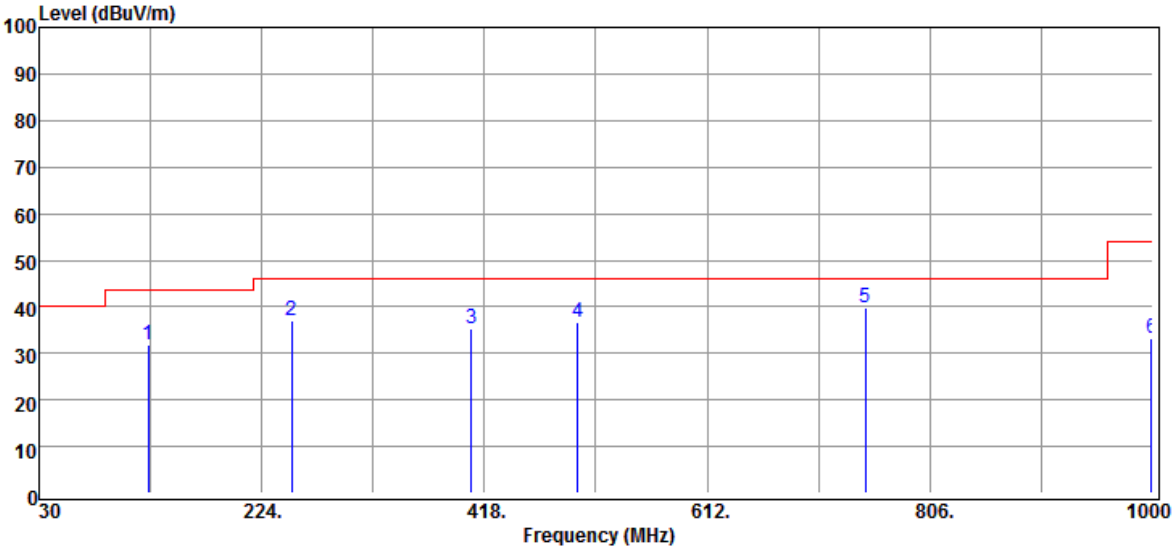
Operation Mode	:802.11a / Band1	Test Date	:2018-08-08
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5220 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
125.06	Peak	52.47	-20.78	31.69	43.50	-11.81
250.19	Peak	53.83	-16.91	36.92	46.00	-9.08
406.36	Peak	47.77	-12.52	35.25	46.00	-10.75
499.48	Peak	47.85	-11.13	36.72	46.00	-9.28
749.74	Peak	46.50	-6.78	39.72	46.00	-6.28
999.03	Peak	36.96	-3.78	33.18	54.00	-20.82

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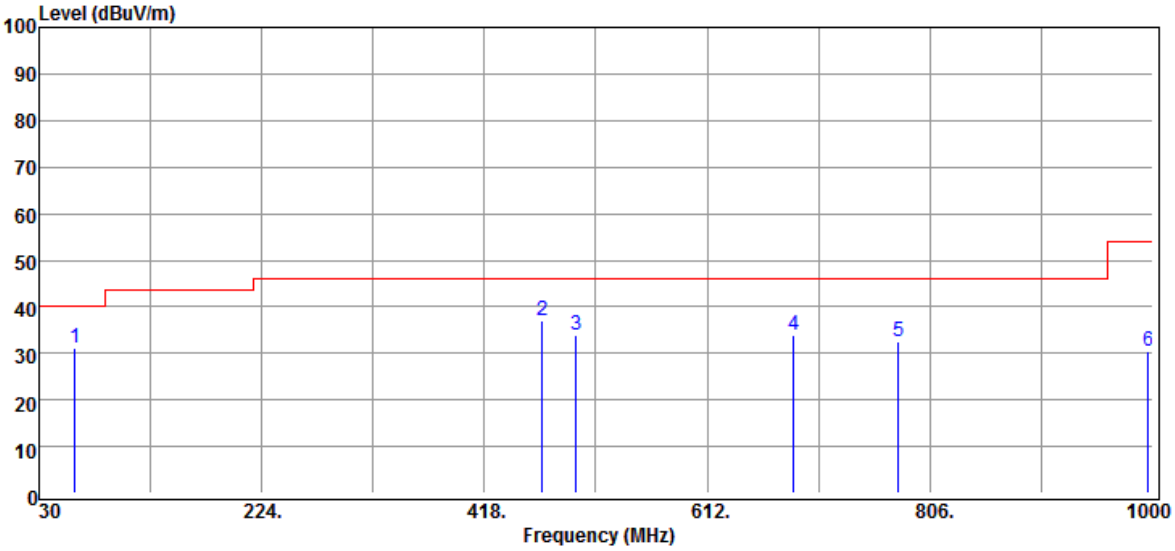
802.11a 5250~5350 MHz

Operation Mode	:802.11a / Band2	Test Date	:2018-08-08
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5300 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
61.04	Peak	48.83	-17.79	31.04	40.00	-8.96
468.44	Peak	48.37	-11.42	36.95	46.00	-9.05
497.54	Peak	45.18	-11.12	34.06	46.00	-11.94
687.66	Peak	41.52	-7.51	34.01	46.00	-11.99
778.84	Peak	39.61	-7.08	32.53	46.00	-13.47
996.12	Peak	34.40	-3.80	30.60	54.00	-23.40

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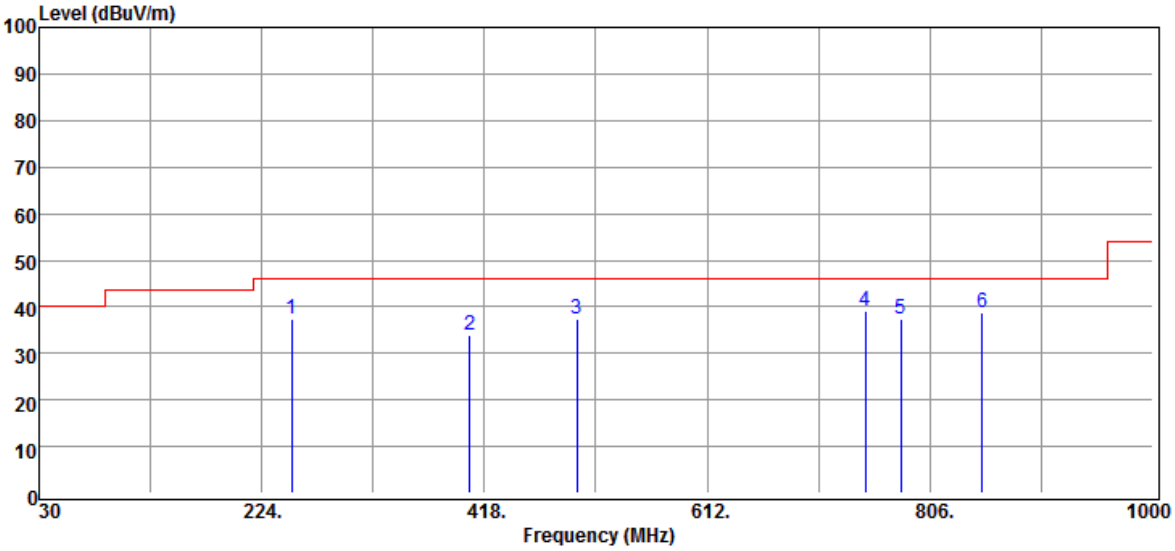
Operation Mode	:802.11a / Band2	Test Date	:2018-08-08
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5300 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
250.19	Peak	54.12	-16.91	37.21	46.00	-8.79
405.39	Peak	46.47	-12.57	33.90	46.00	-12.10
498.51	Peak	48.64	-11.12	37.52	46.00	-8.48
749.74	Peak	45.73	-6.78	38.95	46.00	-7.05
780.78	Peak	44.59	-7.09	37.50	46.00	-8.50
851.59	Peak	44.50	-5.69	38.81	46.00	-7.19

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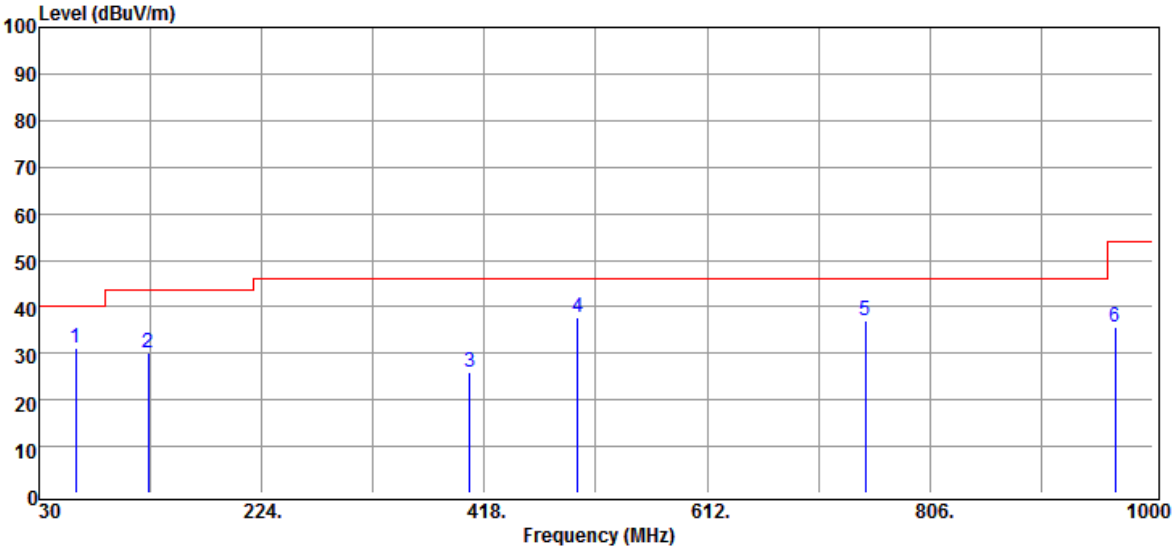
802.11a, 5470~5725 MHz

Operation Mode	:802.11a / Band3	Test Date	:2018-08-08
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5580 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
62.01	Peak	49.09	-17.98	31.11	40.00	-8.89
125.06	Peak	48.44	-18.46	29.98	43.50	-13.52
405.39	Peak	38.45	-12.57	25.88	46.00	-20.12
499.48	Peak	48.69	-11.13	37.56	46.00	-8.44
749.74	Peak	43.74	-6.78	36.96	46.00	-9.04
967.02	Peak	39.32	-3.53	35.79	54.00	-18.21

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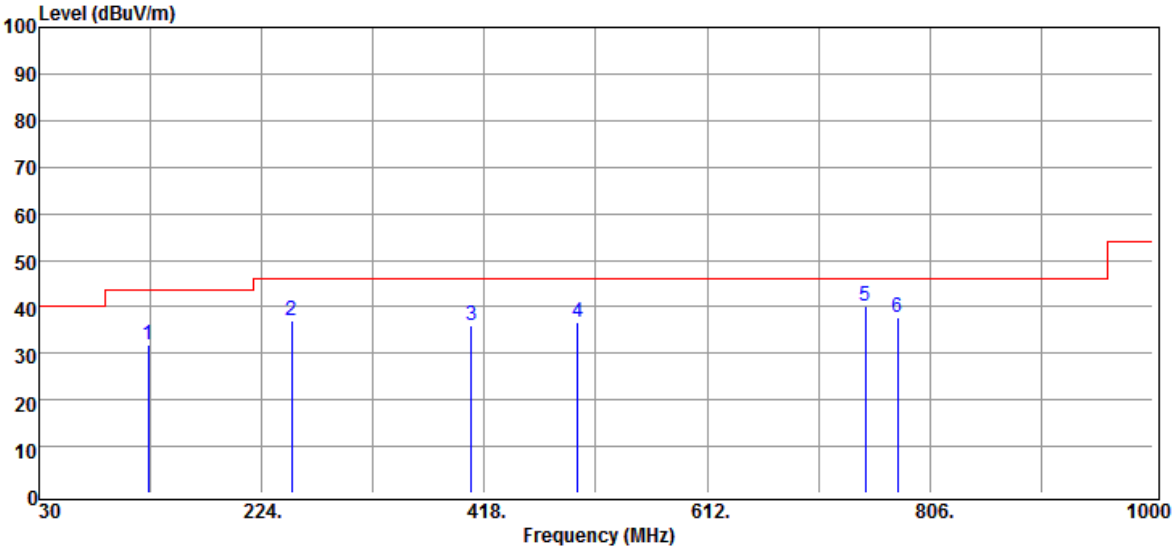
Operation Mode	:802.11a / Band3	Test Date	:2018-08-08
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5580 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
125.06	Peak	52.65	-20.78	31.87	43.50	-11.63
250.19	Peak	53.88	-16.91	36.97	46.00	-9.03
406.36	Peak	48.36	-12.52	35.84	46.00	-10.16
499.48	Peak	47.69	-11.13	36.56	46.00	-9.44
749.74	Peak	46.78	-6.78	40.00	46.00	-6.00
777.87	Peak	44.66	-7.06	37.60	46.00	-8.40

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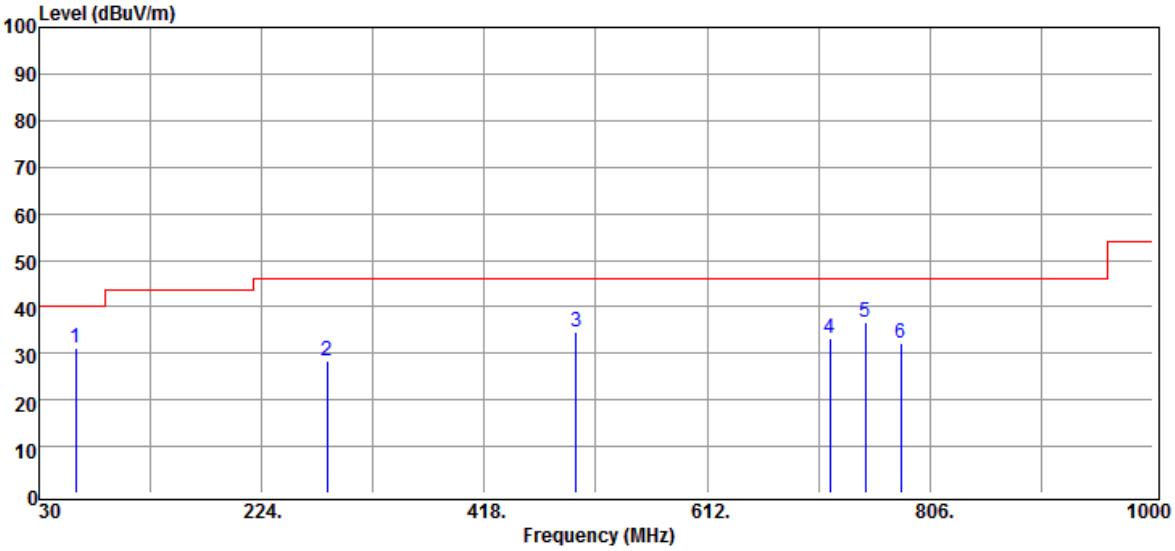
802.11a, 5725~5850 MHz

Operation Mode	:802.11a / Band4	Test Date	:2018-08-08
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5785 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
62.01	Peak	49.27	-17.98	31.29	40.00	-8.71
281.23	Peak	44.00	-15.70	28.30	46.00	-17.70
497.54	Peak	45.85	-11.12	34.73	46.00	-11.27
718.70	Peak	41.10	-7.82	33.28	46.00	-12.72
749.74	Peak	43.31	-6.78	36.53	46.00	-9.47
780.78	Peak	39.43	-7.09	32.34	46.00	-13.66

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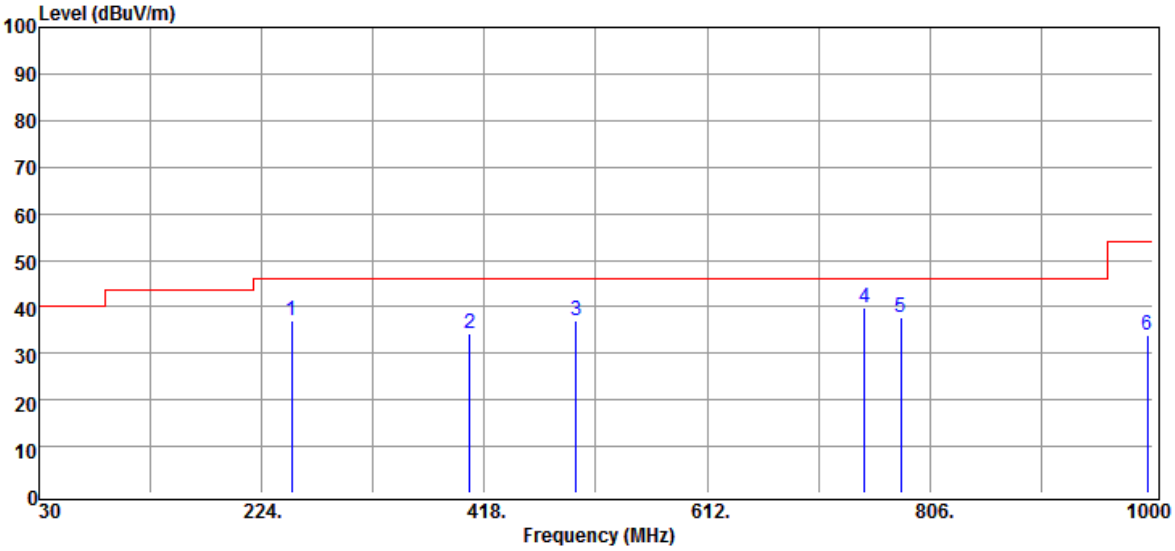
Operation Mode	:802.11a / Band4	Test Date	:2018-08-08
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5785 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
250.19	Peak	53.83	-16.91	36.92	46.00	-9.08
405.39	Peak	46.79	-12.57	34.22	46.00	-11.78
497.54	Peak	48.11	-11.12	36.99	46.00	-9.01
748.77	Peak	46.51	-6.80	39.71	46.00	-6.29
780.78	Peak	44.80	-7.09	37.71	46.00	-8.29
995.15	Peak	37.62	-3.82	33.80	54.00	-20.20

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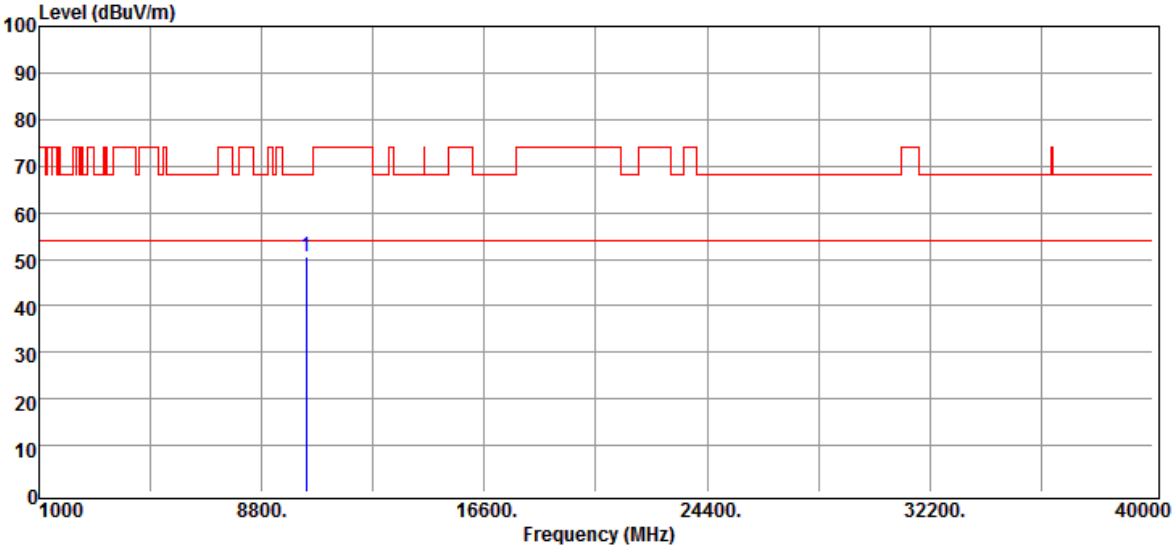
Above 1GHz Worst-Case Data:

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

Operation Mode	:802.11a / Band1	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Jerry



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	38.26	12.41	50.67	68.20	-17.53

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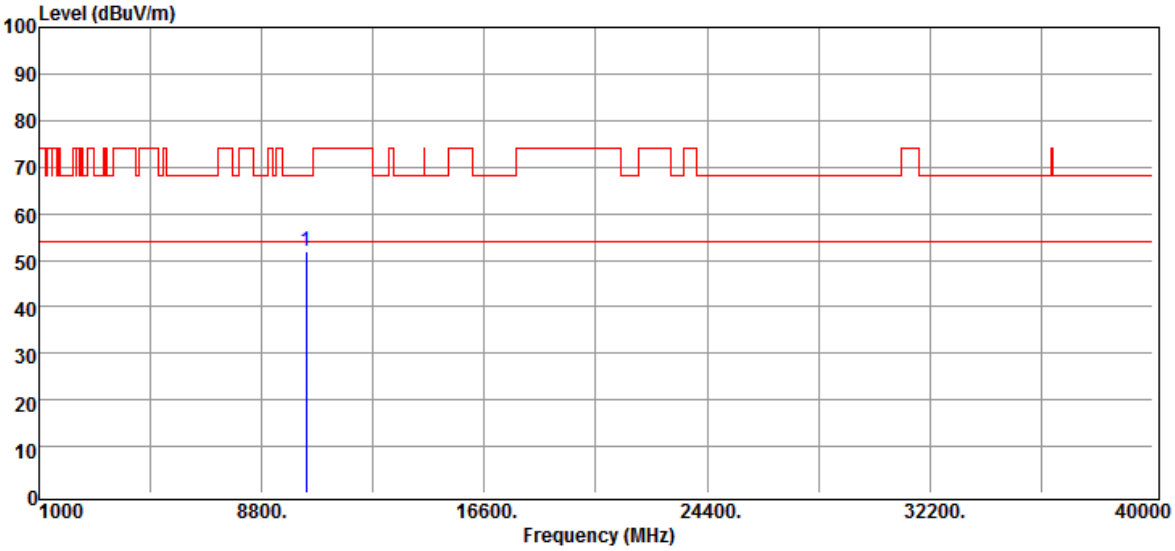
Operation Mode	:802.11a / Band1	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Jerry



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	39.52	12.41	51.93	68.20	-16.27

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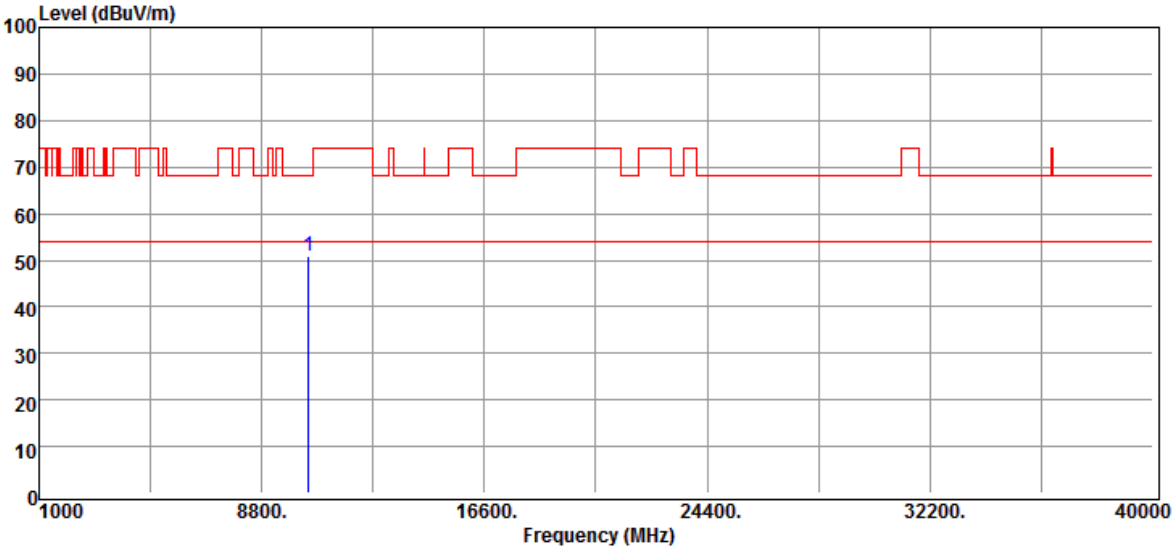
Operation Mode	:802.11a / Band1	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5220 MHz	Engineer	:Jerry



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	38.32	12.52	50.84	68.20	-17.36

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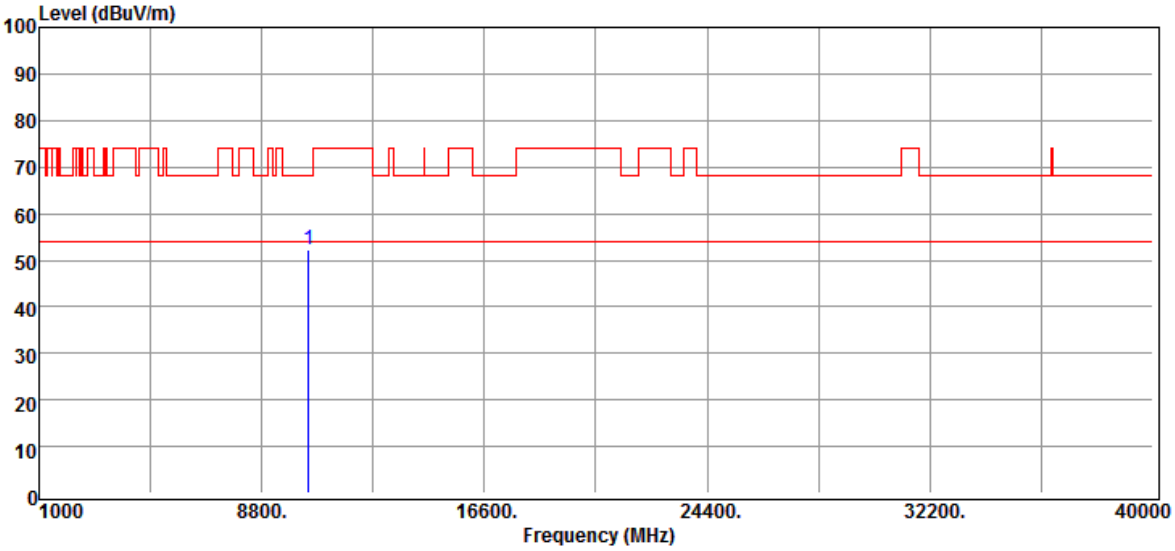
Operation Mode	:802.11a / Band1	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5220 MHz	Engineer	:Jerry



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	39.73	12.52	52.25	68.20	-15.95

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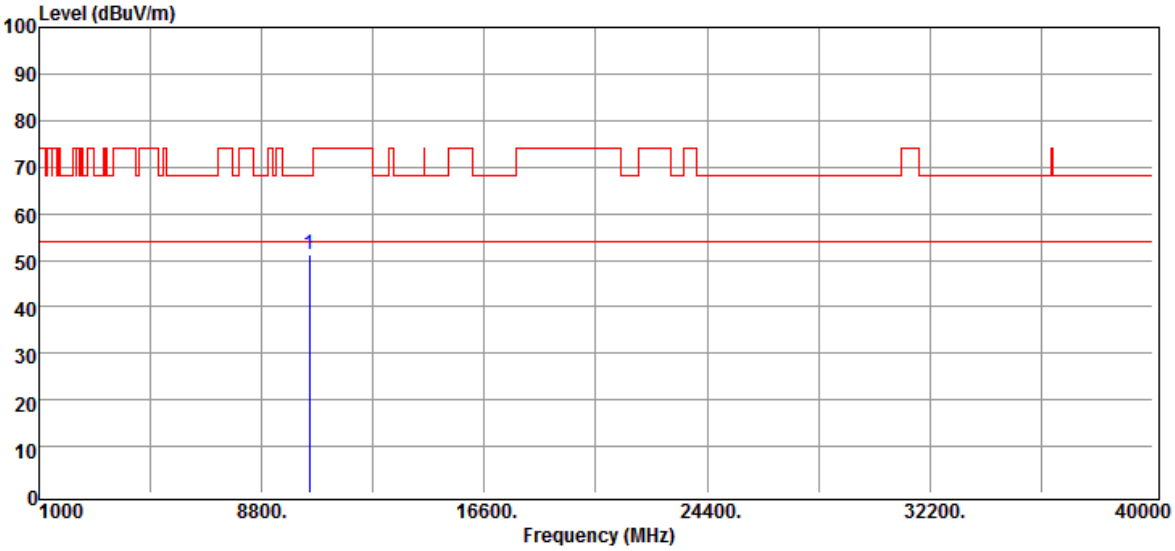
Operation Mode	:802.11a / Band1	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5240 MHz	Engineer	:Jerry



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	38.64	12.58	51.22	68.20	-16.98

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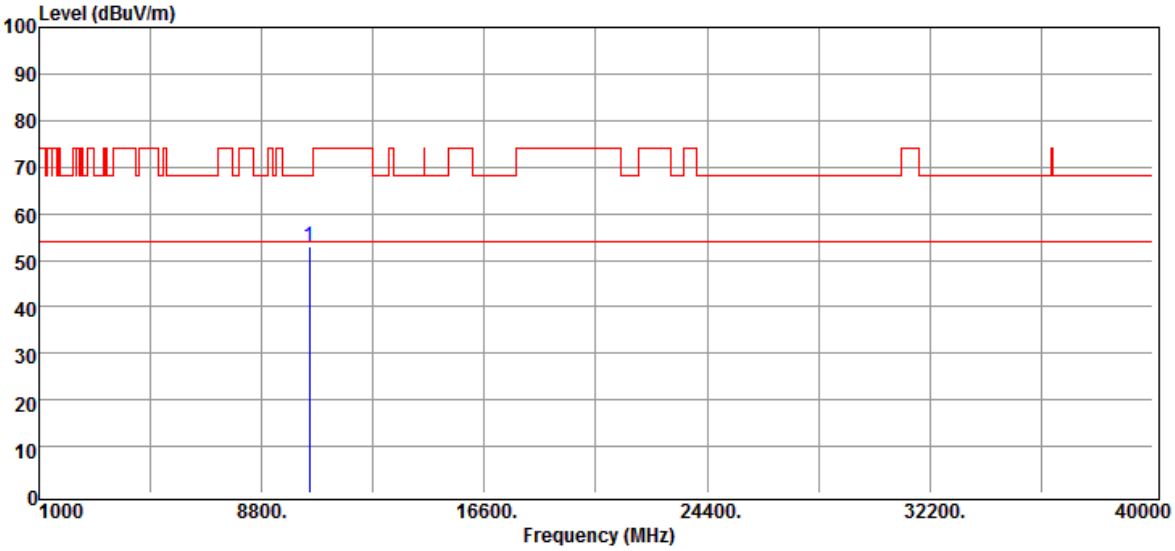
Operation Mode	:802.11a / Band1	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5240 MHz	Engineer	:Jerry



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	40.24	12.58	52.82	68.20	-15.38

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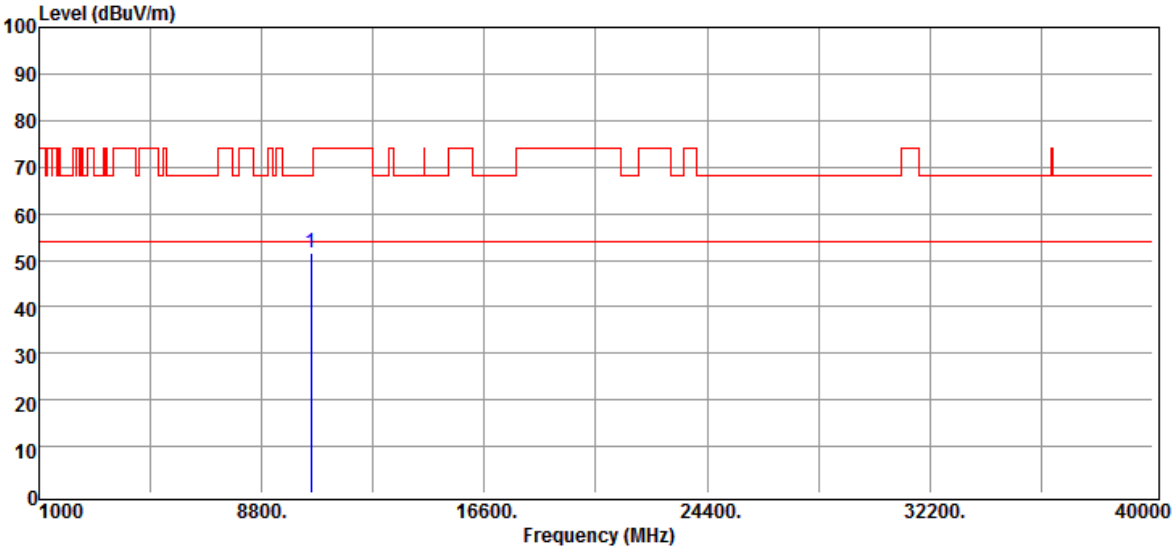
Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode	:802.11a / Band2	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5260 MHz	Engineer	:Jerry



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	39.13	12.55	51.68	68.20	-16.52

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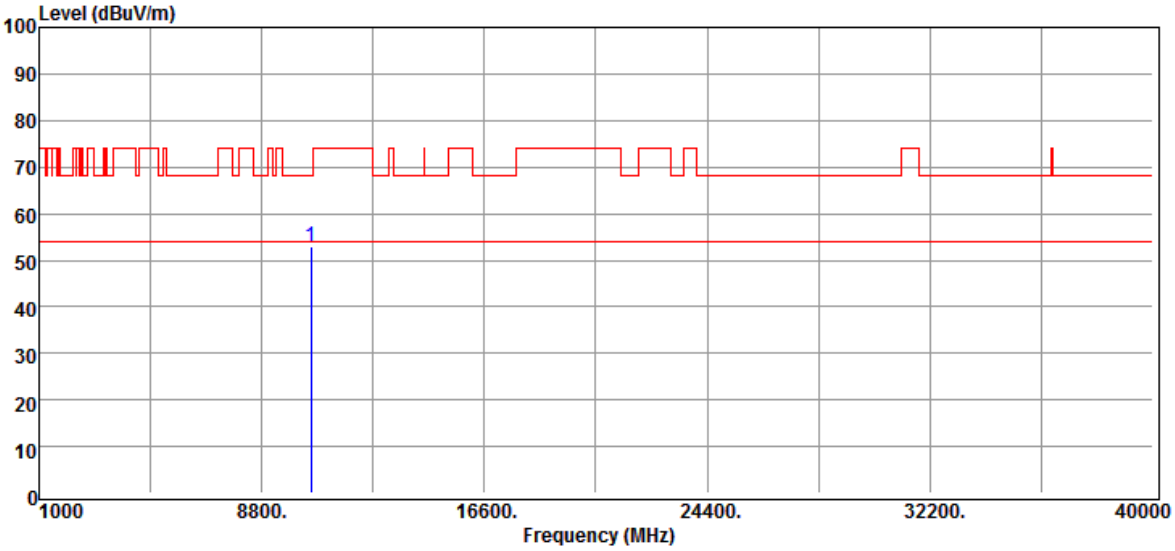
Operation Mode	:802.11a / Band2	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5260 MHz	Engineer	:Jerry



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	40.23	12.55	52.78	68.20	-15.42

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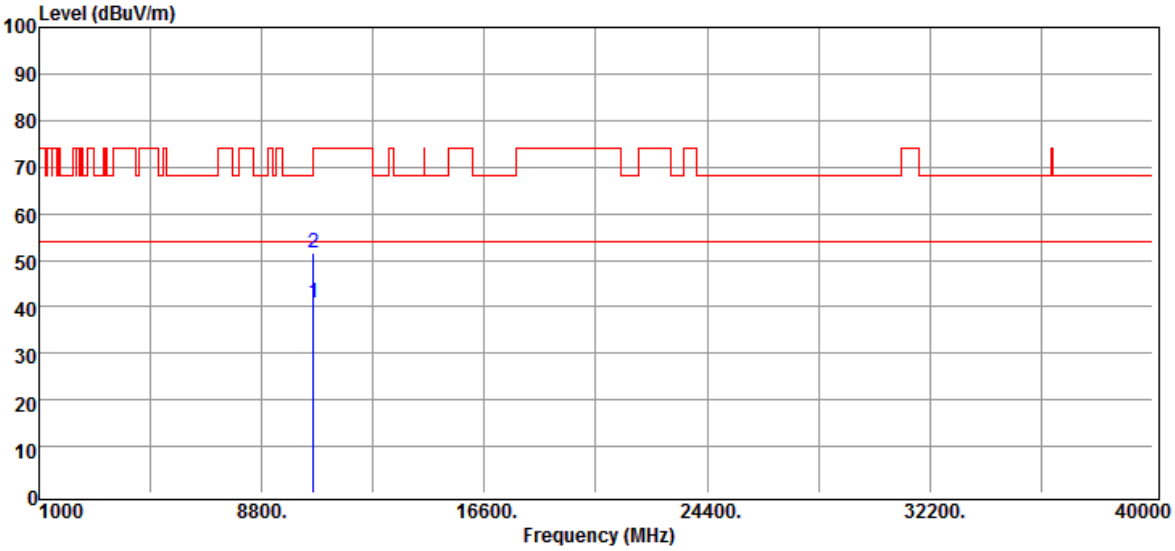
Operation Mode	:802.11a / Band2	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5300 MHz	Engineer	:Jerry



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	28.39	12.30	40.69	54.00	-13.31
10600.00	Peak	39.38	12.30	51.68	74.00	-22.32

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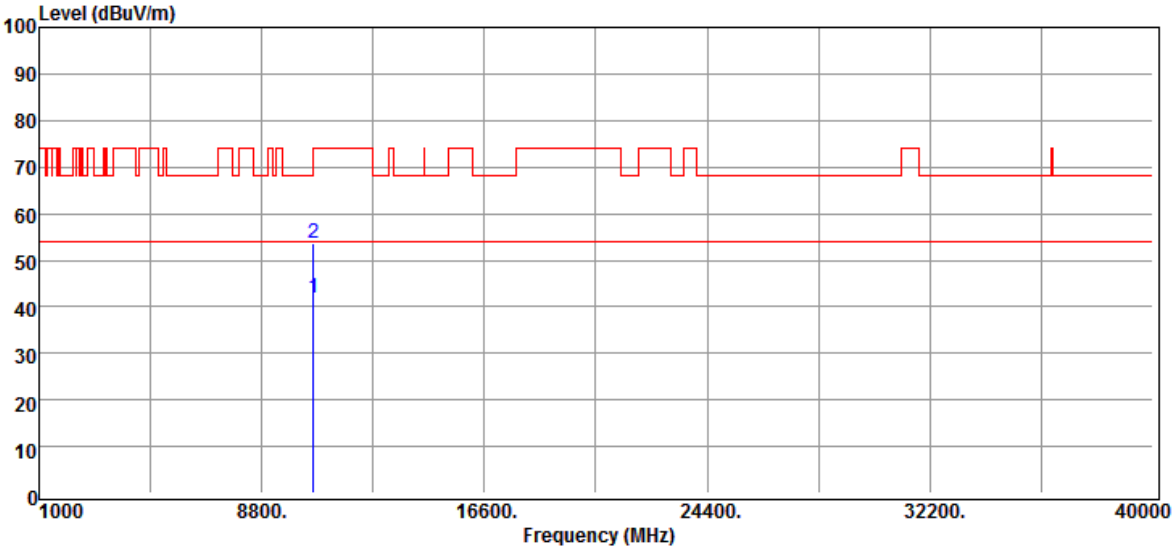
Operation Mode	:802.11a / Band2	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5300 MHz	Engineer	:Jerry



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	29.53	12.30	41.83	54.00	-12.17
10600.00	Peak	41.23	12.30	53.53	74.00	-20.47

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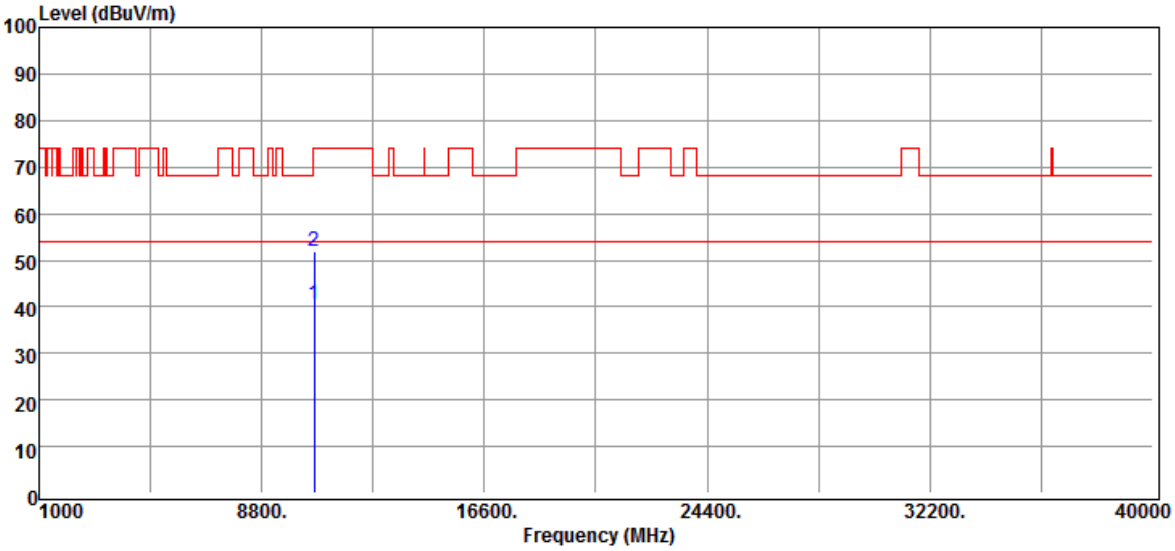
Operation Mode	:802.11a / Band2	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Jerry



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	28.51	12.04	40.55	54.00	-13.45
10640.00	Peak	39.73	12.04	51.77	74.00	-22.23

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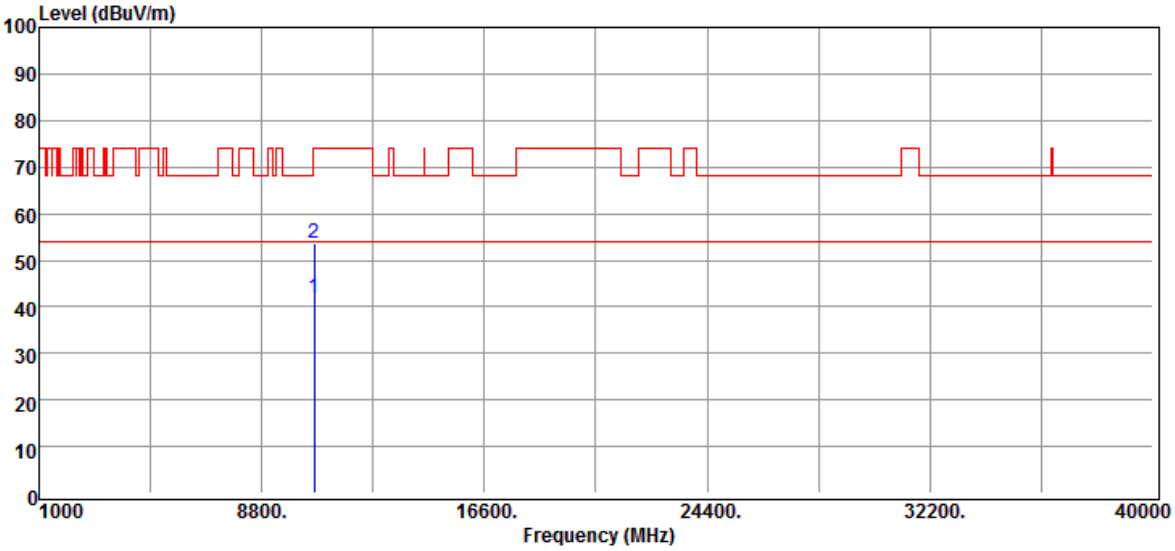
Operation Mode	:802.11a / Band2	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Jerry



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	29.88	12.04	41.92	54.00	-12.08
10640.00	Peak	41.65	12.04	53.69	74.00	-20.31

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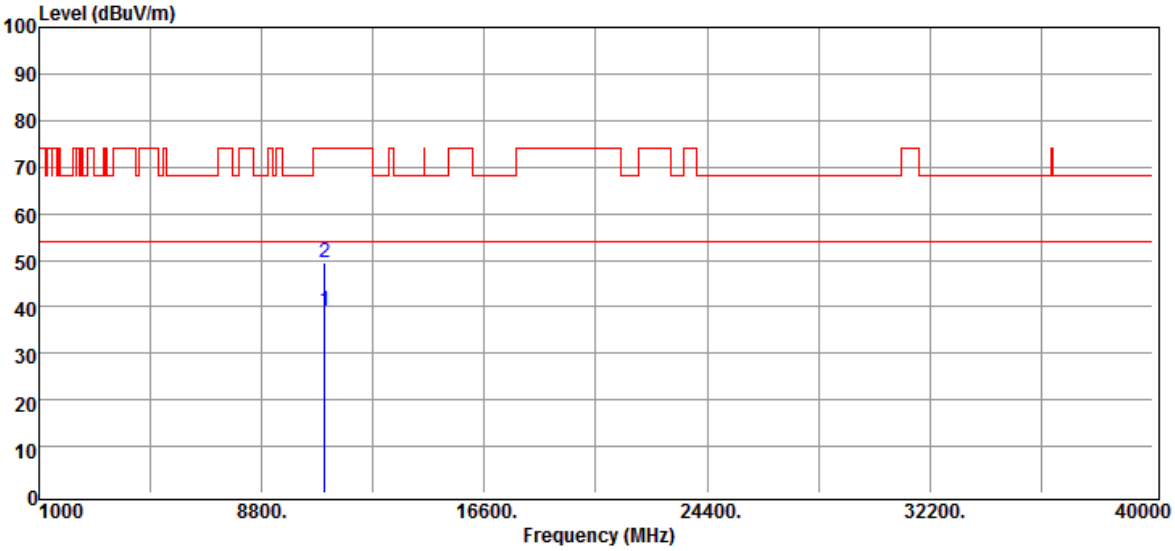
Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode	:802.11a / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Jerry



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	28.22	10.96	39.18	54.00	-14.82
11000.00	Peak	38.65	10.96	49.61	74.00	-24.39

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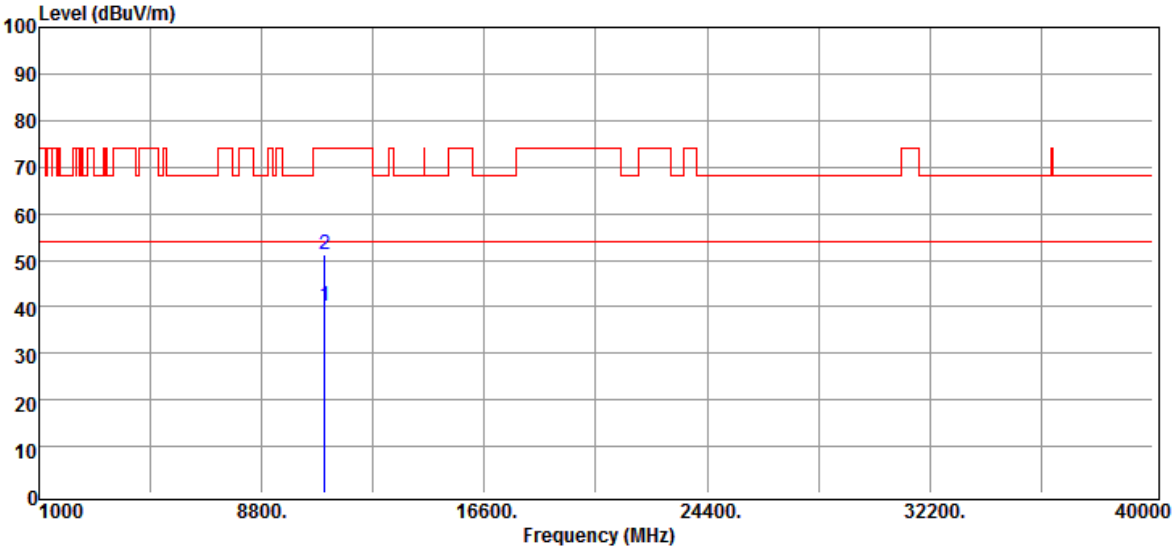
Operation Mode	:802.11a / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Jerry



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	29.12	10.96	40.08	54.00	-13.92
11000.00	Peak	40.23	10.96	51.19	74.00	-22.81

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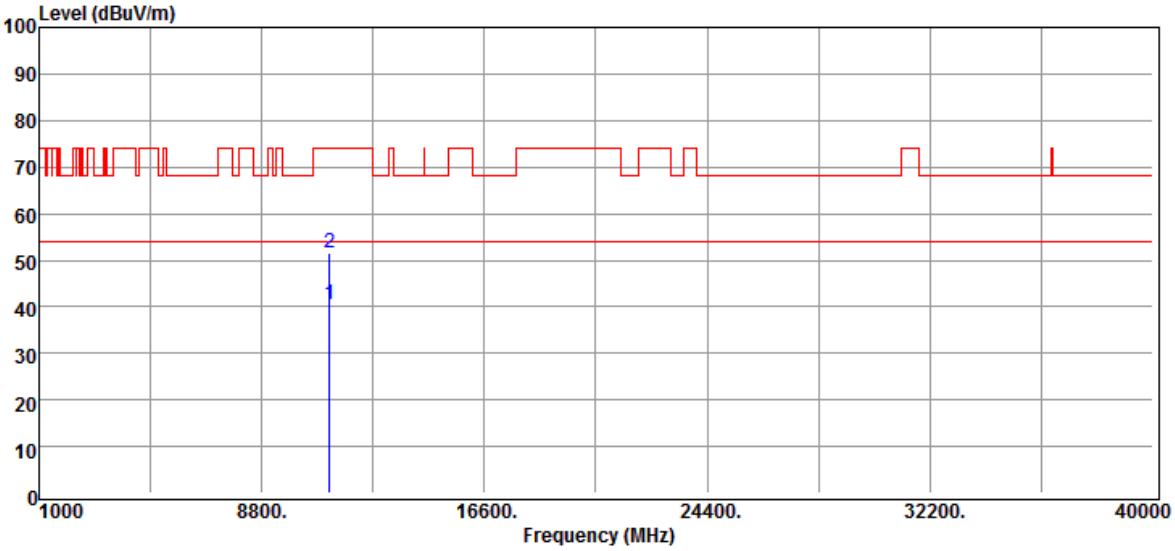
Operation Mode	:802.11a / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5580 MHz	Engineer	:Jerry



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	28.22	12.11	40.33	54.00	-13.67
11160.00	Peak	39.37	12.11	51.48	74.00	-22.52

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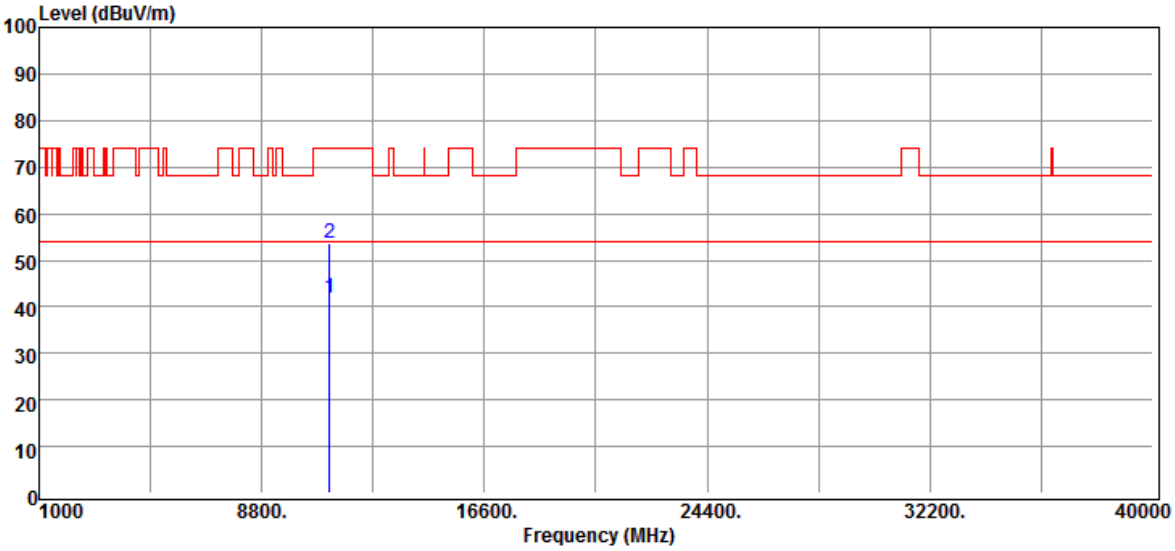
Operation Mode	:802.11a / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5580 MHz	Engineer	:Jerry



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	29.73	12.11	41.84	54.00	-12.16
11160.00	Peak	41.38	12.11	53.49	74.00	-20.51

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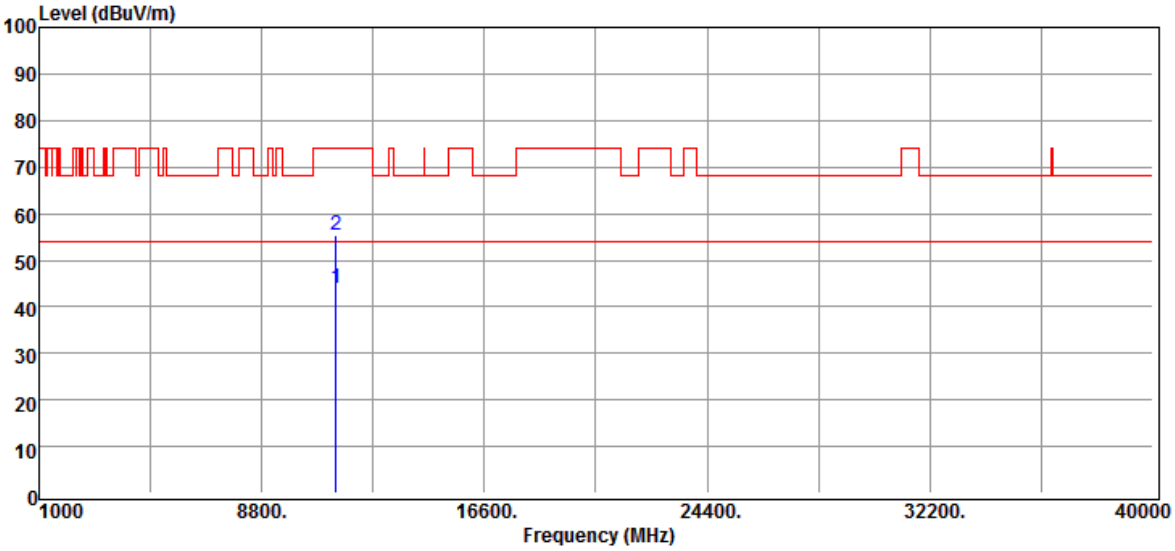
Operation Mode	:802.11a / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Jerry



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	31.11	12.98	44.09	54.00	-9.91
11400.00	Peak	42.22	12.98	55.20	74.00	-18.80

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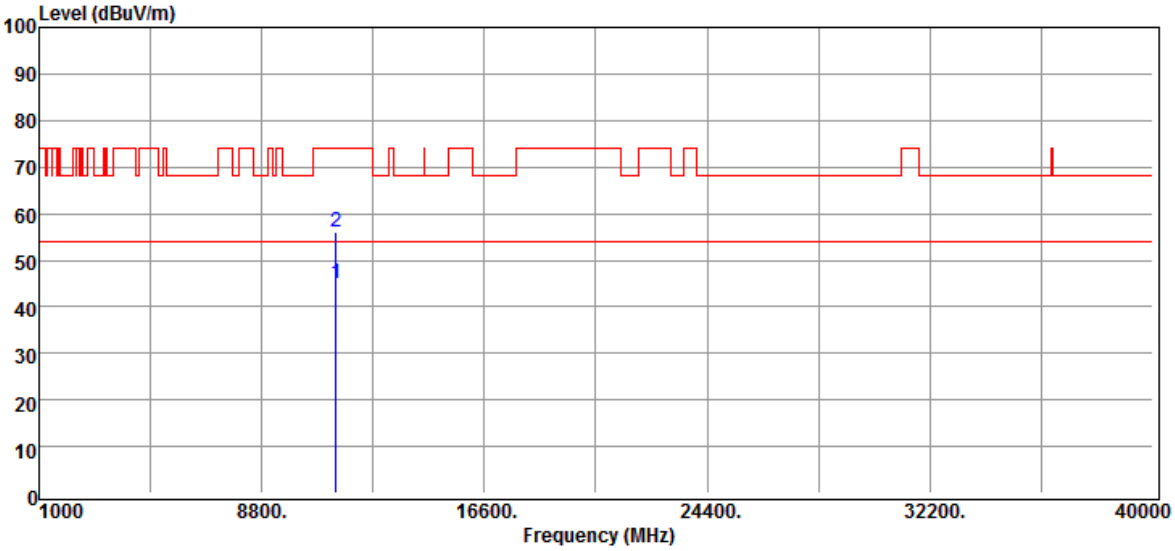
Operation Mode	:802.11a / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Jerry



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	32.17	12.98	45.15	54.00	-8.85
11400.00	Peak	43.23	12.98	56.21	74.00	-17.79

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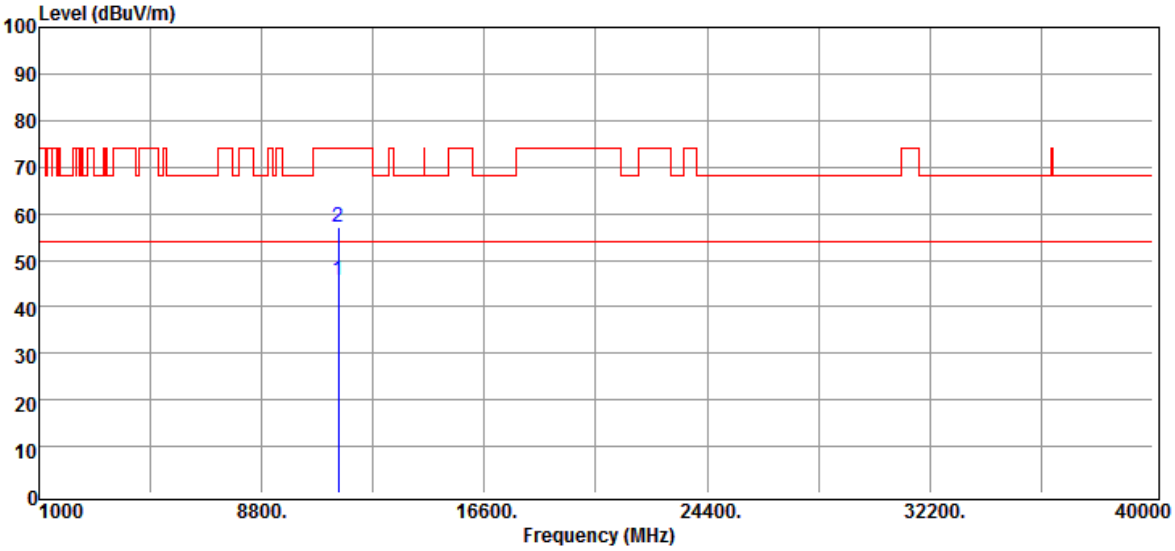
Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode	:802.11a / Band4	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Jerry



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	32.53	13.32	45.85	54.00	-8.15
11490.00	Peak	43.87	13.32	57.19	74.00	-16.81

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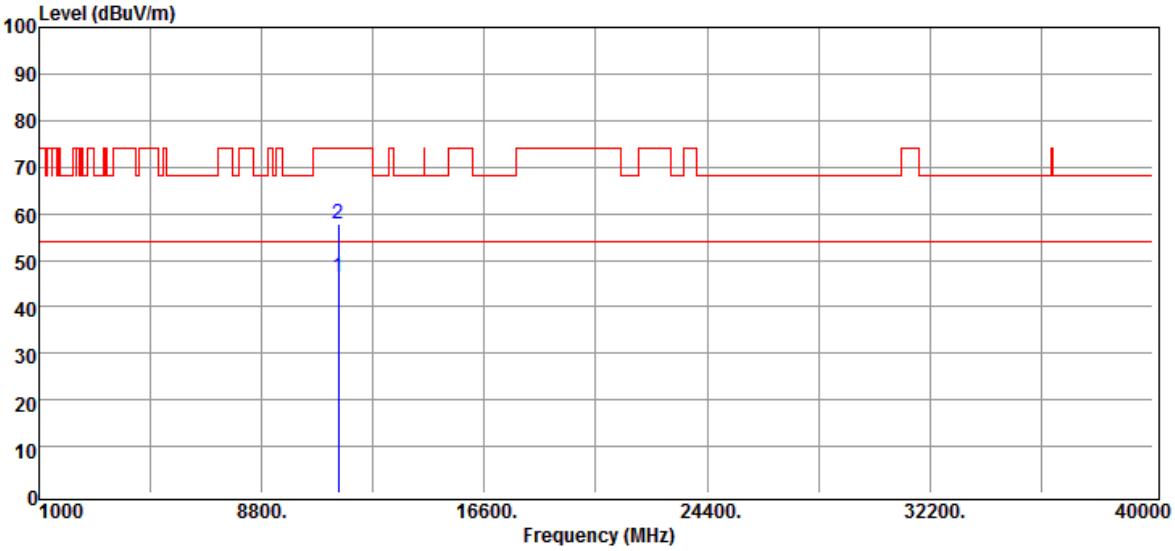
Operation Mode	:802.11a / Band4	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Jerry



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	33.02	13.32	46.34	54.00	-7.66
11490.00	Peak	44.59	13.32	57.91	74.00	-16.09

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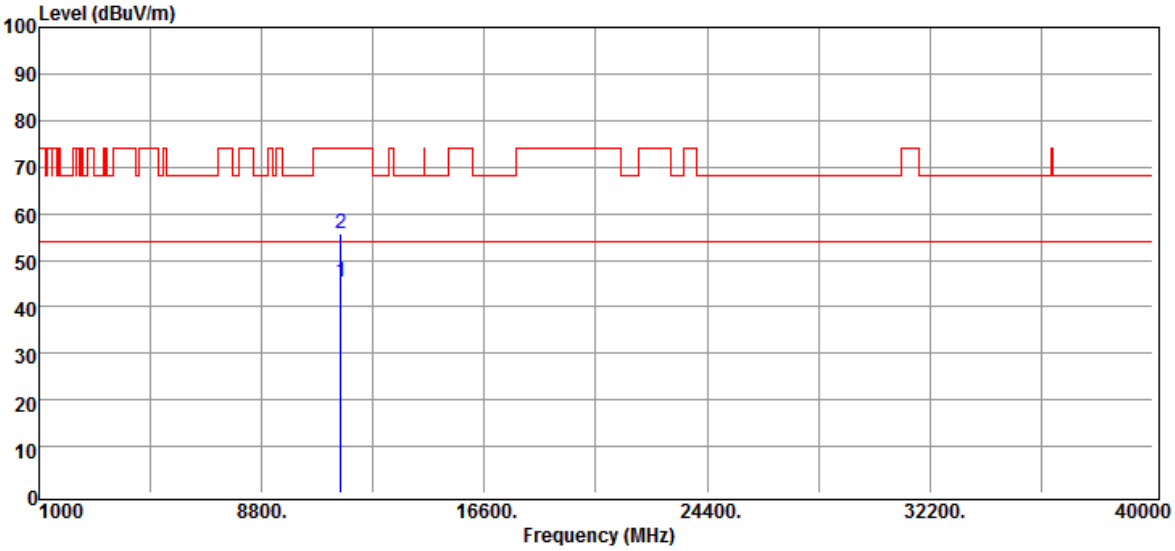
Operation Mode	:802.11a / Band4	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5785 MHz	Engineer	:Jerry



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	32.21	13.01	45.22	54.00	-8.78
11570.00	Peak	42.55	13.01	55.56	74.00	-18.44

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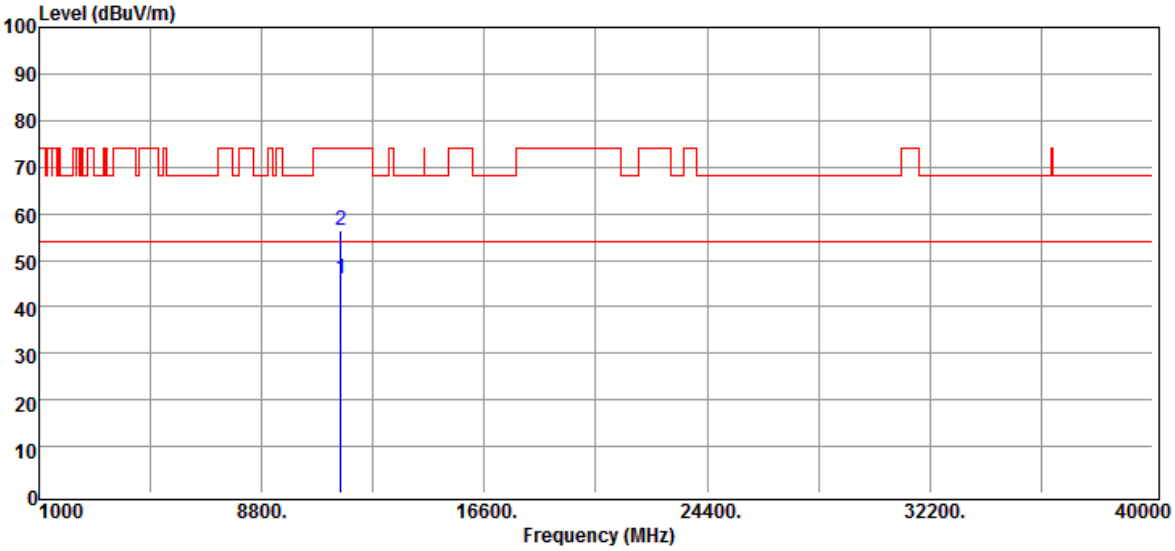
Operation Mode	:802.11a / Band4	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5785 MHz	Engineer	:Jerry



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	32.89	13.01	45.90	54.00	-8.10
11570.00	Peak	43.27	13.01	56.28	74.00	-17.72

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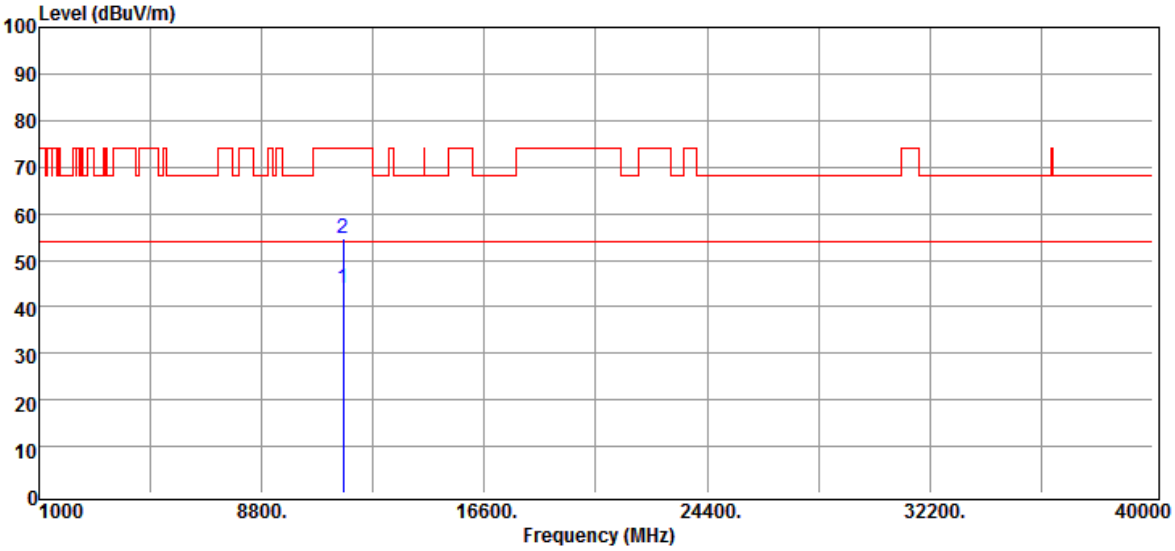
Operation Mode	:802.11a / Band4	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Jerry



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	30.83	12.95	43.78	54.00	-10.22
11650.00	Peak	41.69	12.95	54.64	74.00	-19.36

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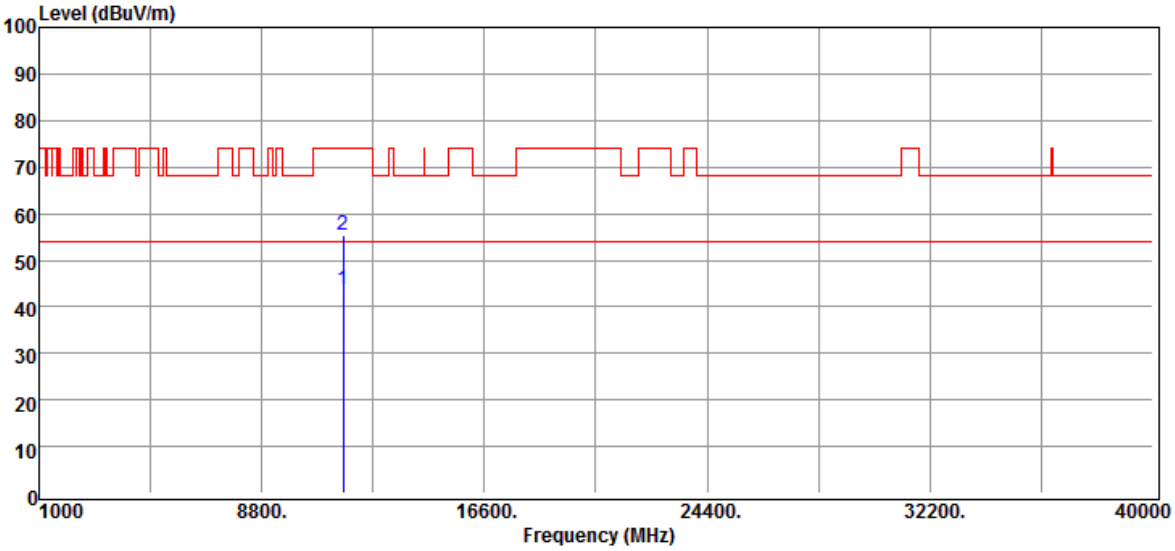
Operation Mode	:802.11a / Band4	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Jerry



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	30.55	12.95	43.50	54.00	-10.50
11650.00	Peak	42.38	12.95	55.33	74.00	-18.67

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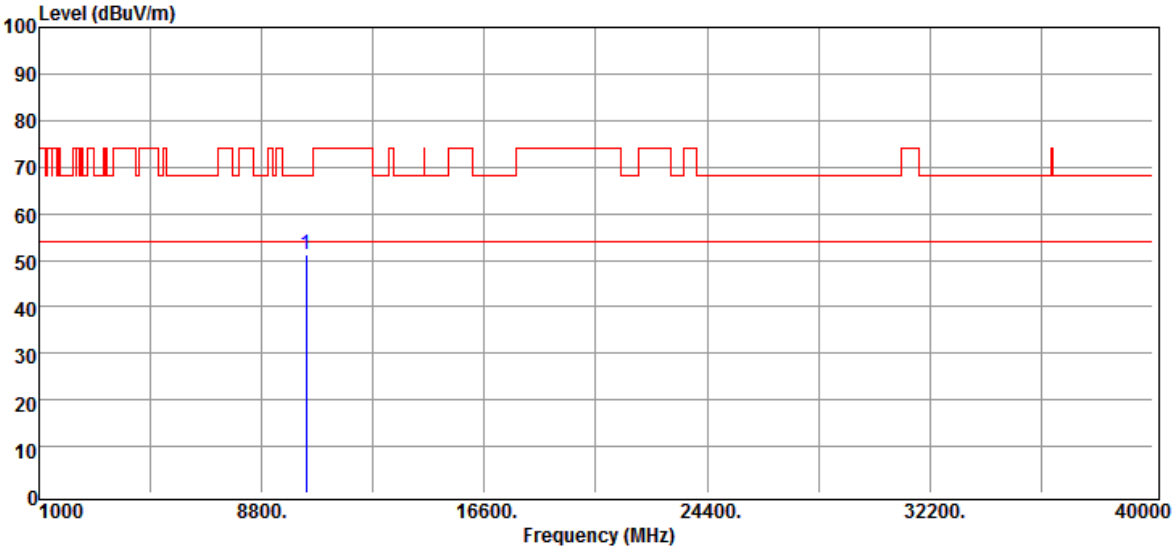
Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode	:802.11n20 / Band1	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Jerry



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	38.83	12.41	51.24	68.20	-16.96

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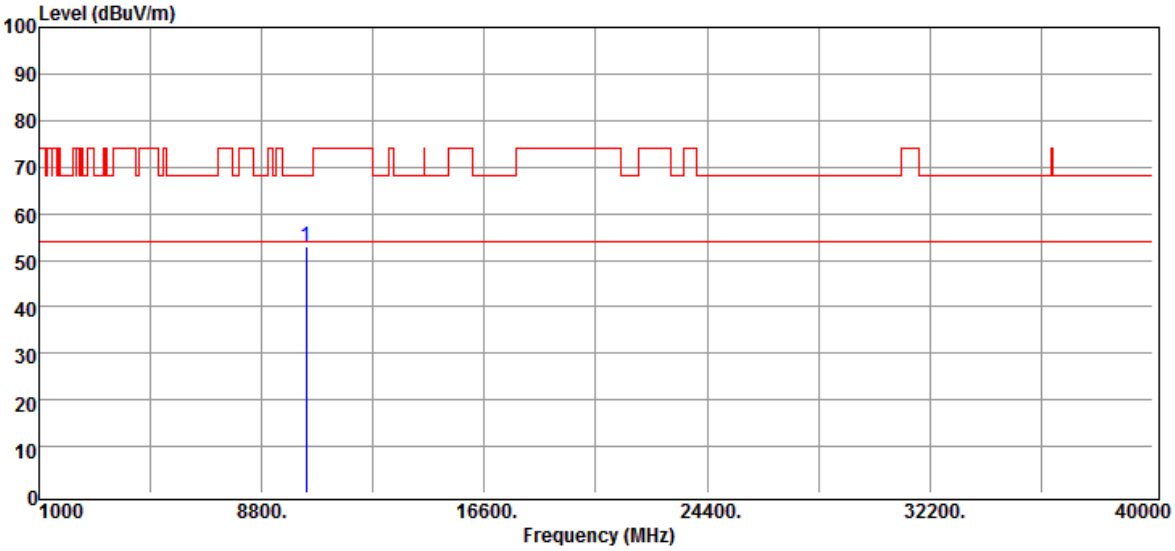
Operation Mode	:802.11n20 / Band1	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Jerry



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	40.52	12.41	52.93	68.20	-15.27

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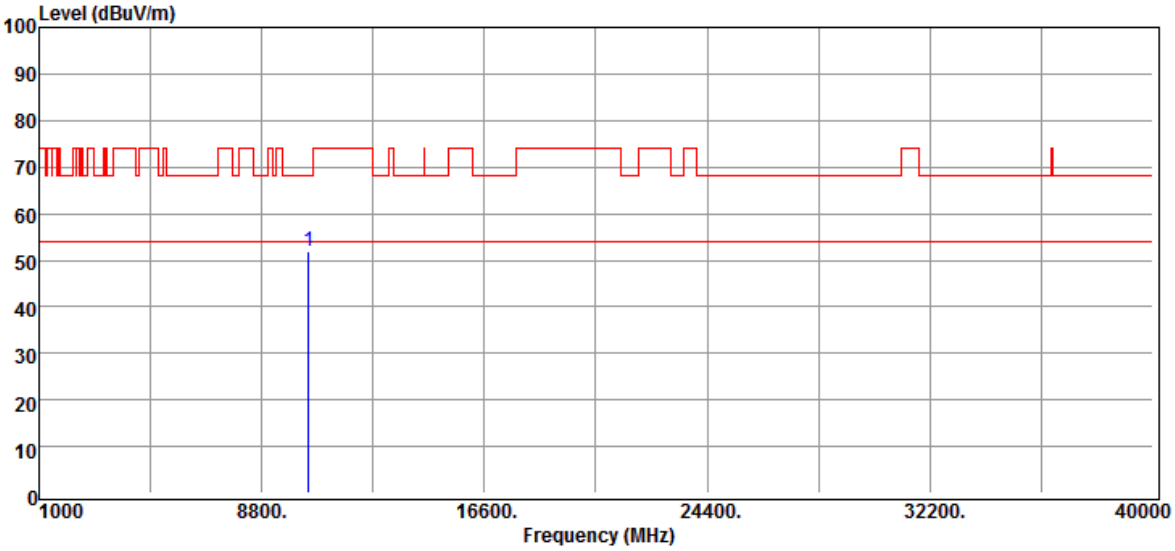
Operation Mode	:802.11n20 / Band1	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5220 MHz	Engineer	:Jerry



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	39.26	12.52	51.78	68.20	-16.42

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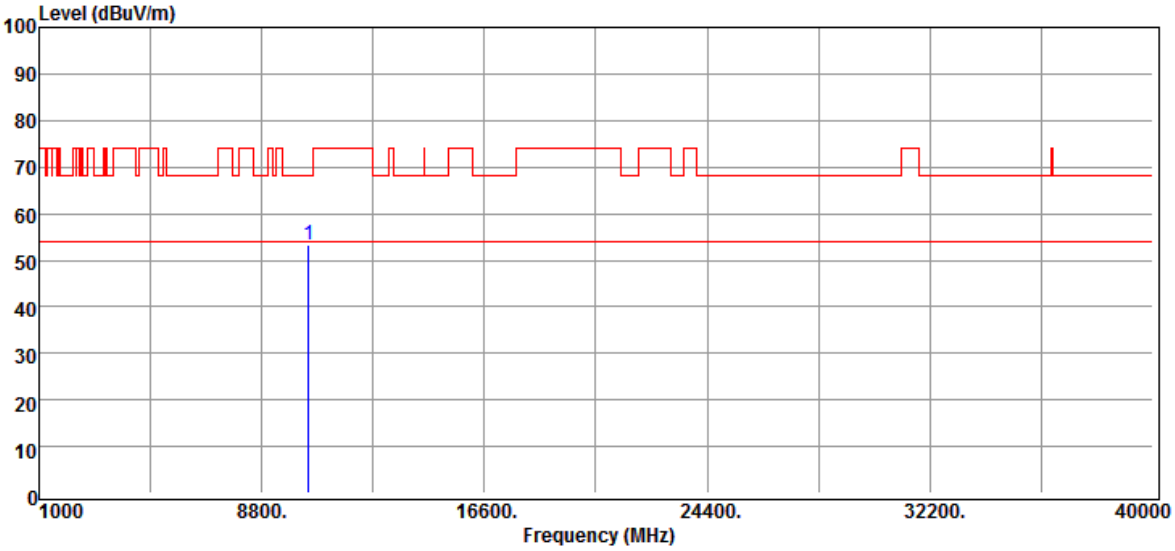
Operation Mode	:802.11n20 / Band1	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5220 MHz	Engineer	:Jerry



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	40.89	12.52	53.41	68.20	-14.79

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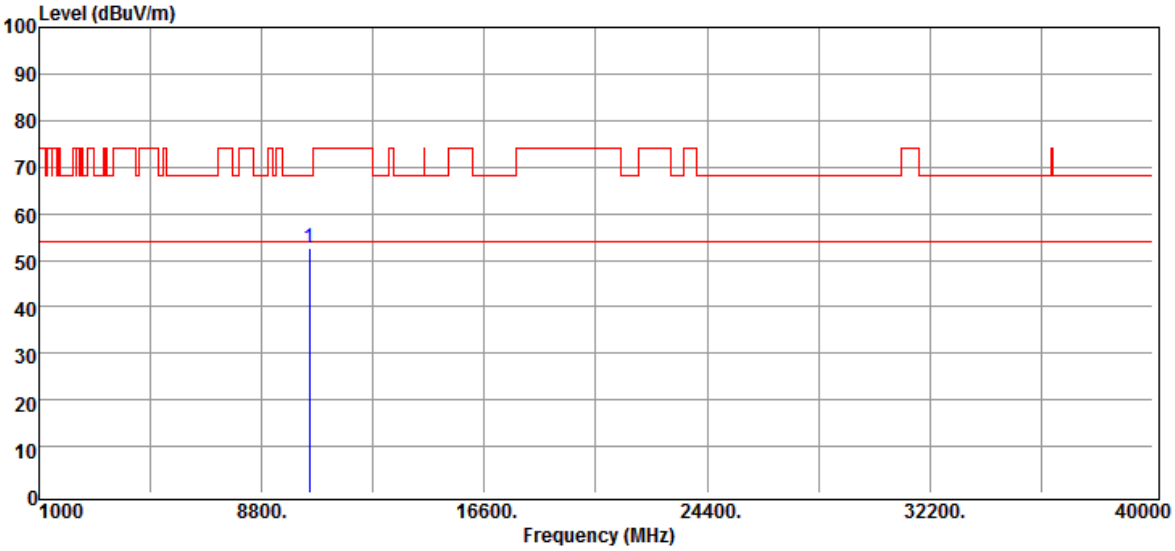
Operation Mode	:802.11n20 / Band1	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5240 MHz	Engineer	:Jerry



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	39.91	12.58	52.49	68.20	-15.71

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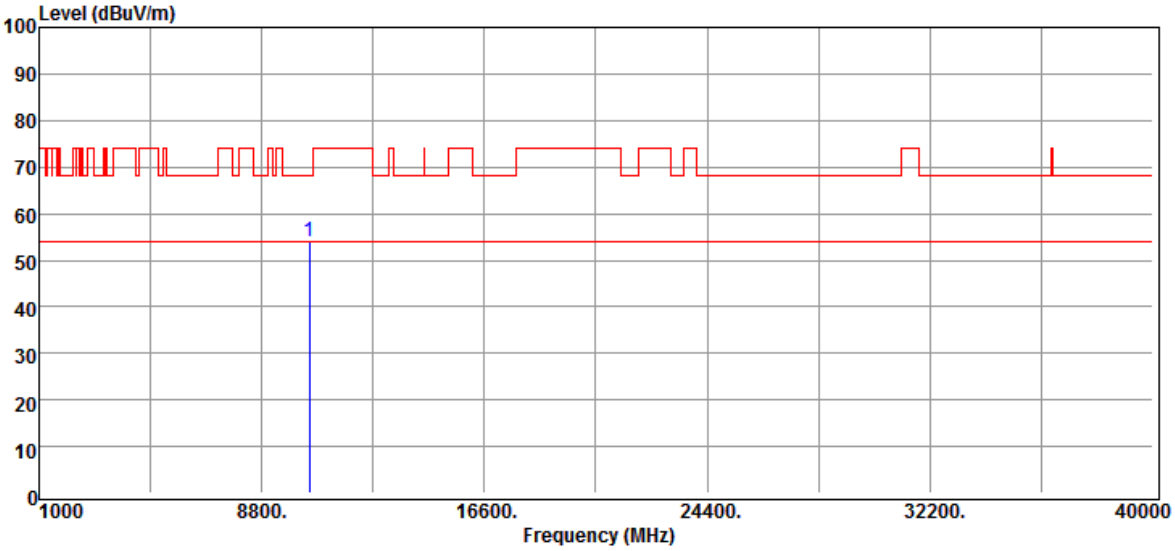
Operation Mode	:802.11n20 / Band1	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5240 MHz	Engineer	:Jerry



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	41.52	12.58	54.10	68.20	-14.10

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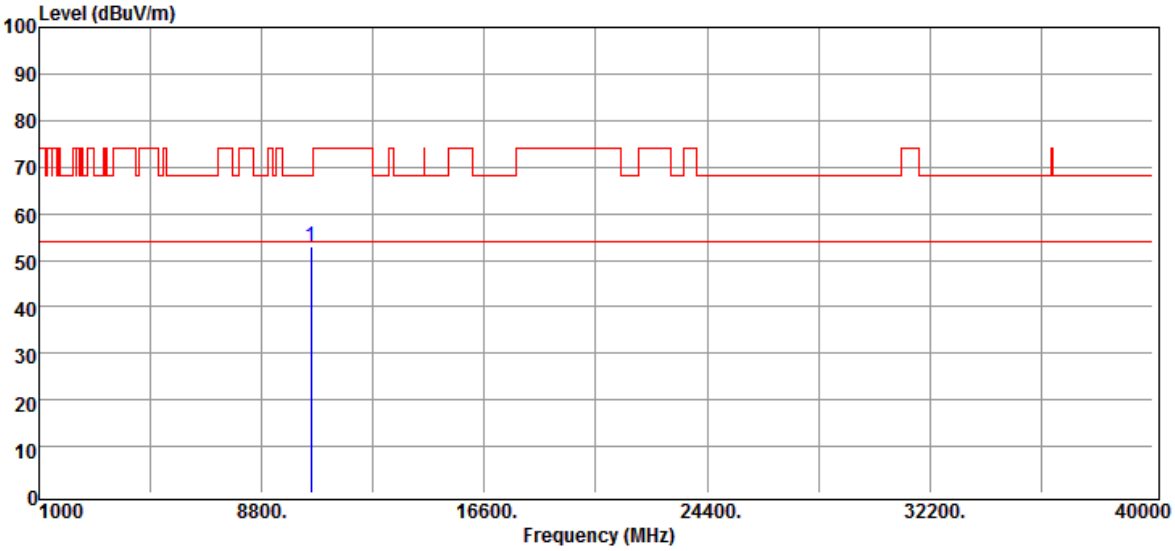
Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode	:802.11n20 / Band2	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5260 MHz	Engineer	:Jerry



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	40.28	12.55	52.83	68.20	-15.37

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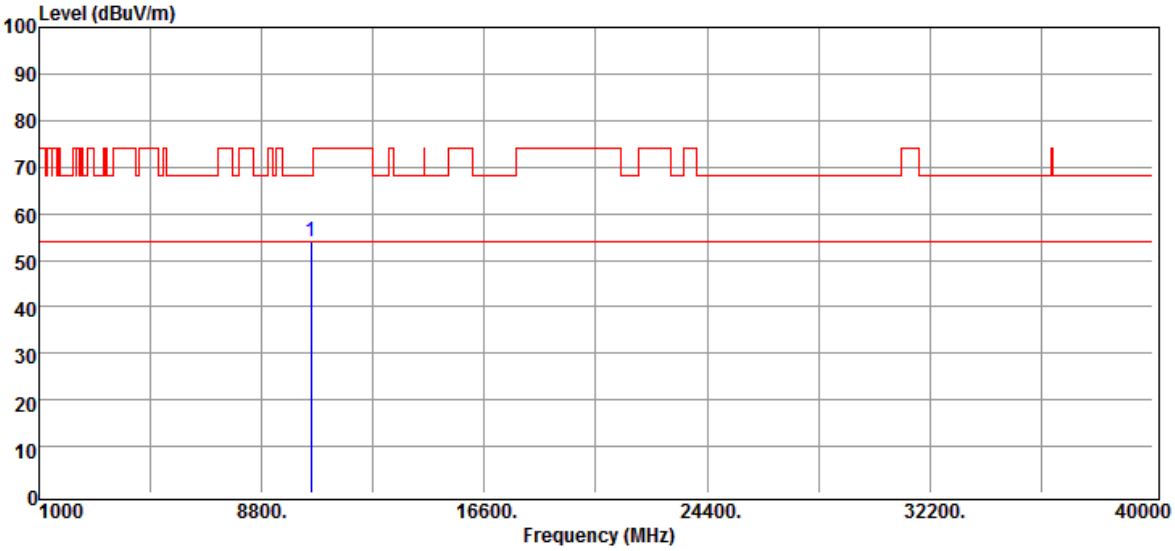
Operation Mode	:802.11n20 / Band2	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5260 MHz	Engineer	:Jerry



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	41.55	12.55	54.10	68.20	-14.10

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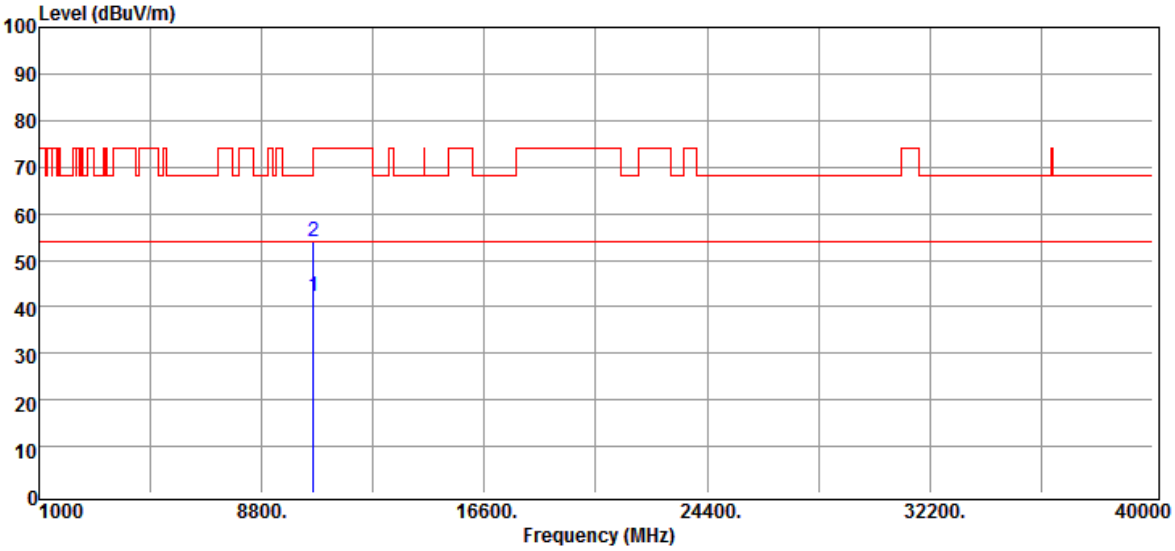
Operation Mode	:802.11n20 / Band2	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5300 MHz	Engineer	:Jerry



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	29.78	12.30	42.08	54.00	-11.92
10600.00	Peak	41.63	12.30	53.93	74.00	-20.07

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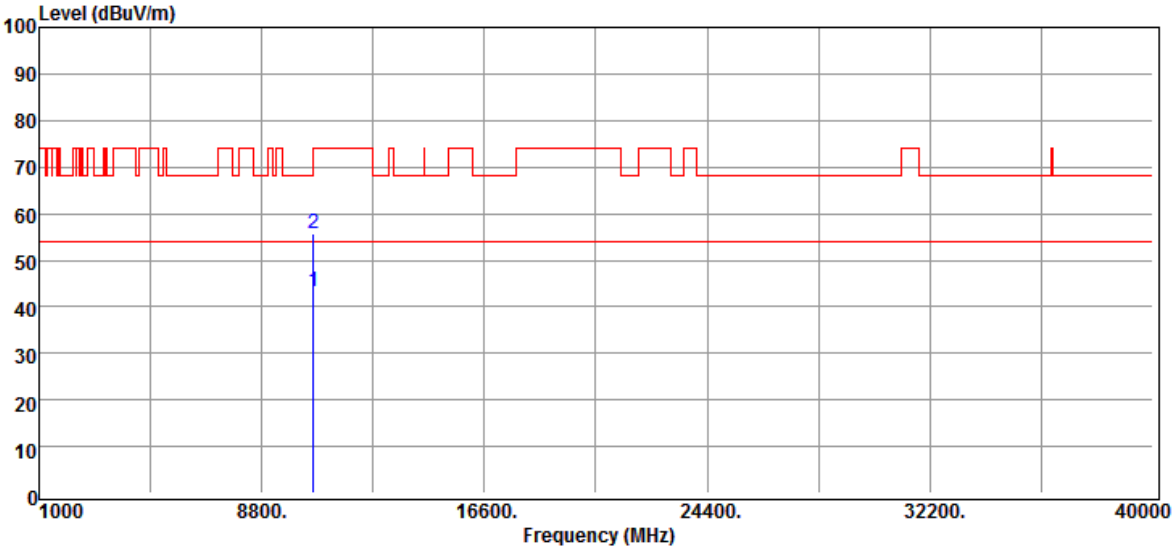
Operation Mode	:802.11n20 / Band2	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5300 MHz	Engineer	:Jerry



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	31.02	12.30	43.32	54.00	-10.68
10600.00	Peak	43.55	12.30	55.85	74.00	-18.15

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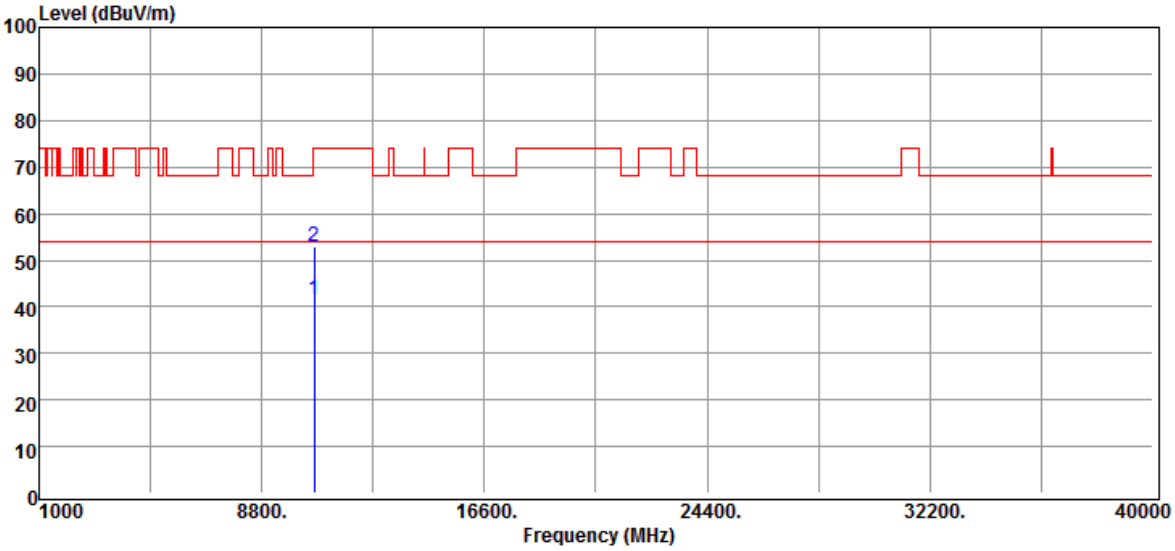
Operation Mode	:802.11n20 / Band2	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Jerry



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	29.56	12.04	41.60	54.00	-12.40
10640.00	Peak	40.88	12.04	52.92	74.00	-21.08

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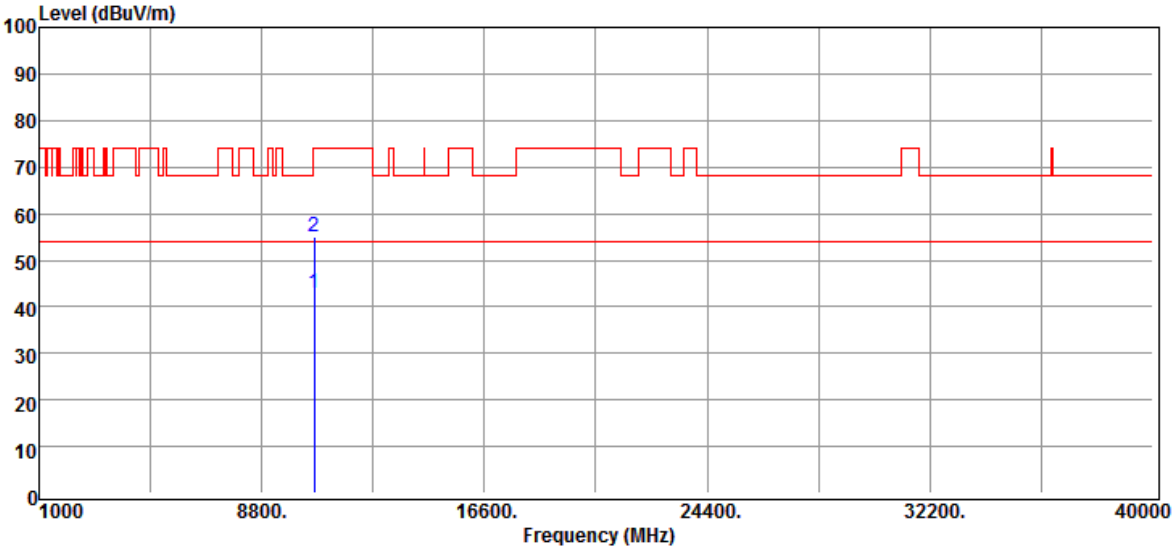
Operation Mode	:802.11n20 / Band2	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Jerry



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	30.83	12.04	42.87	54.00	-11.13
10640.00	Peak	43.01	12.04	55.05	74.00	-18.95

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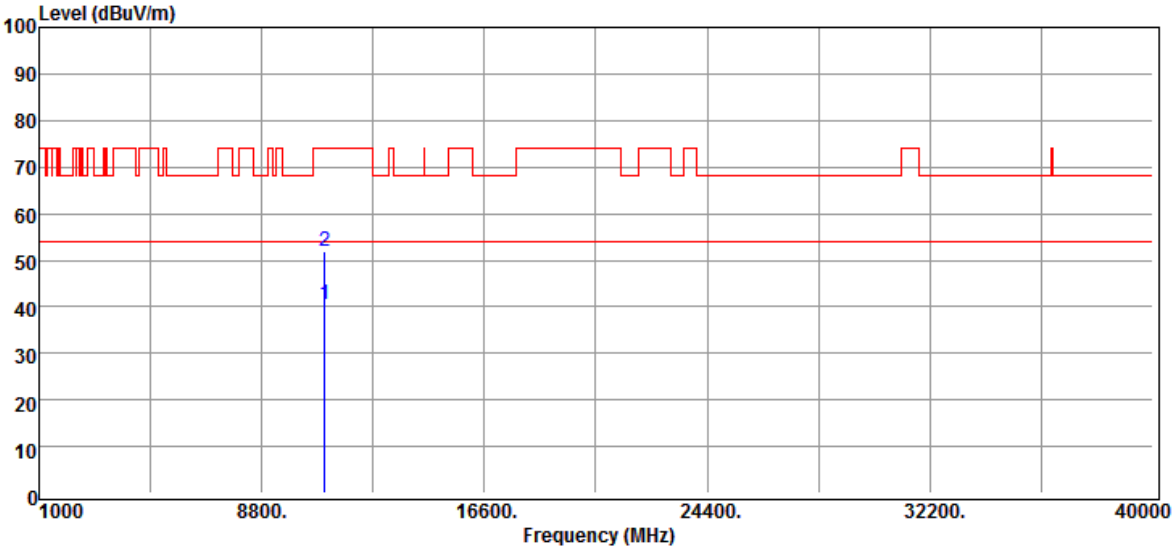
Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode	:802.11n20 / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Jerry



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	29.62	10.96	40.58	54.00	-13.42
11000.00	Peak	40.97	10.96	51.93	74.00	-22.07

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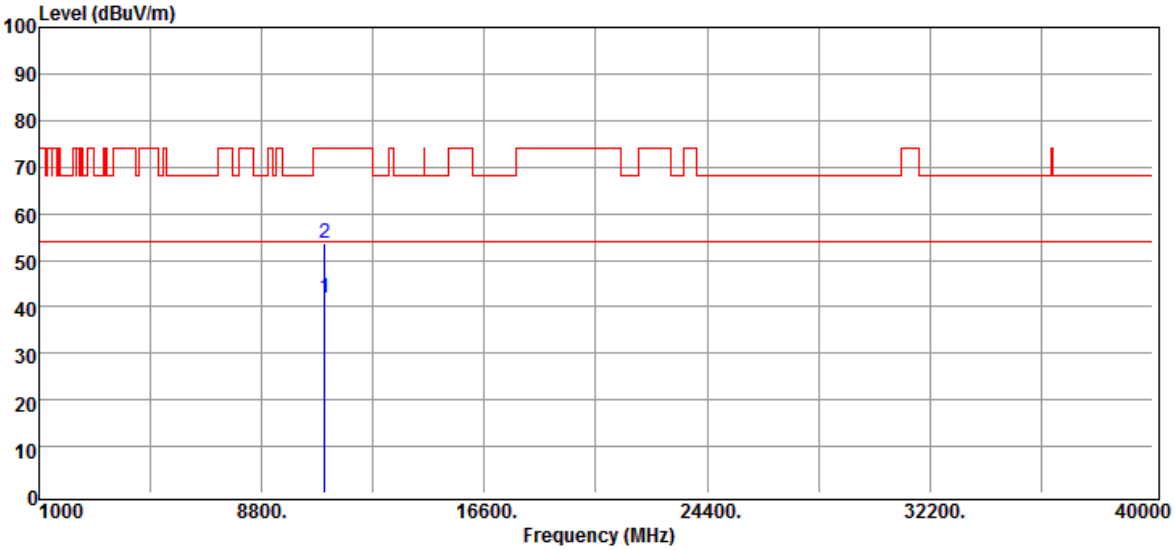
Operation Mode	:802.11n20 / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Jerry



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	30.93	10.96	41.89	54.00	-12.11
11000.00	Peak	42.67	10.96	53.63	74.00	-20.37

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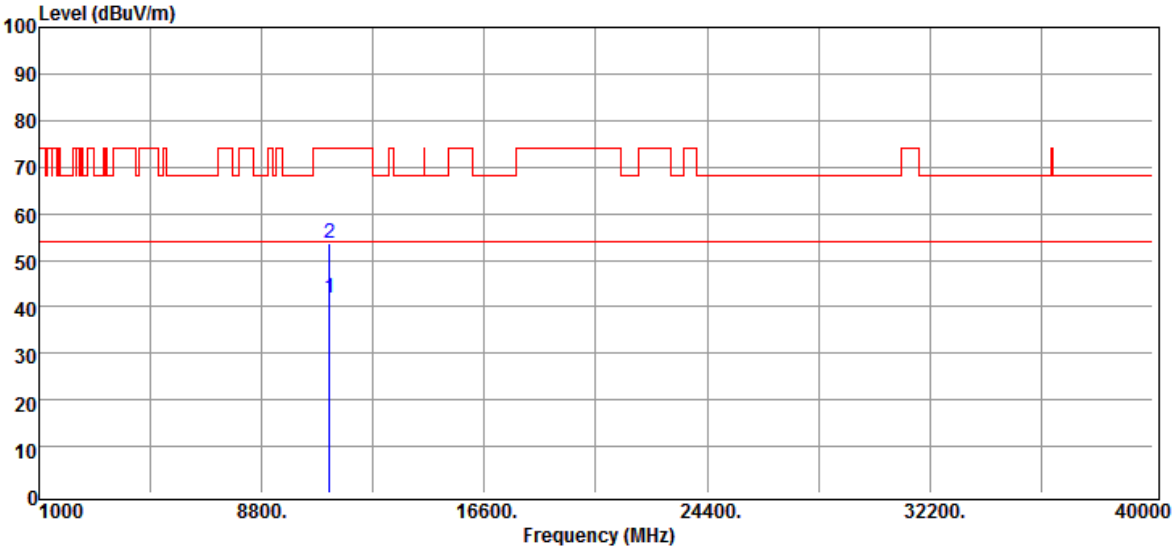
Operation Mode	:802.11n20 / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5580 MHz	Engineer	:Jerry



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	29.82	12.11	41.93	54.00	-12.07
11160.00	Peak	41.35	12.11	53.46	74.00	-20.54

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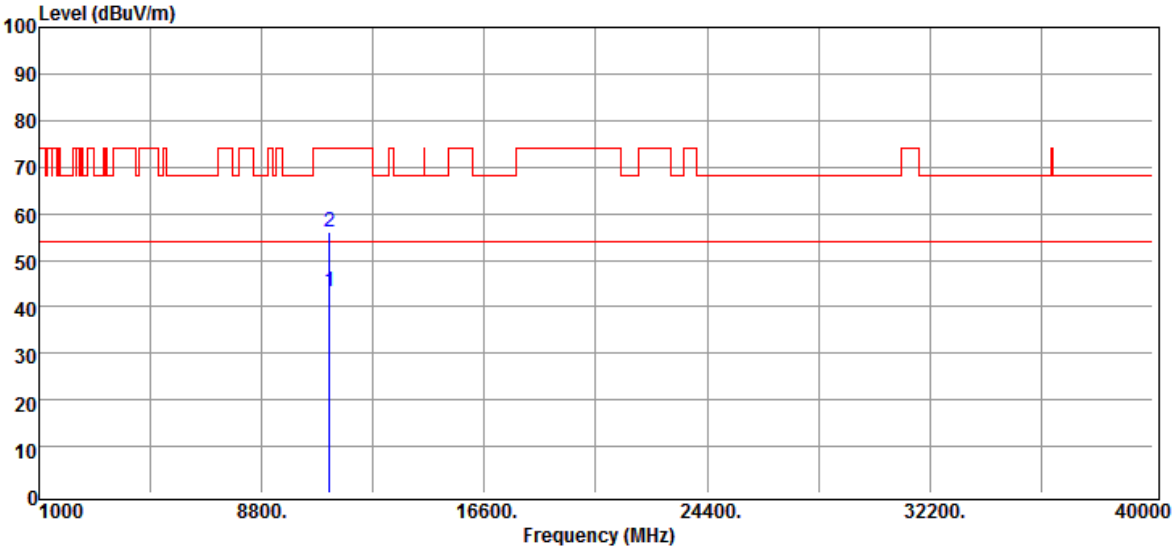
Operation Mode	:802.11n20 / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5580 MHz	Engineer	:Jerry



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	31.26	12.11	43.37	54.00	-10.63
11160.00	Peak	43.79	12.11	55.90	74.00	-18.10

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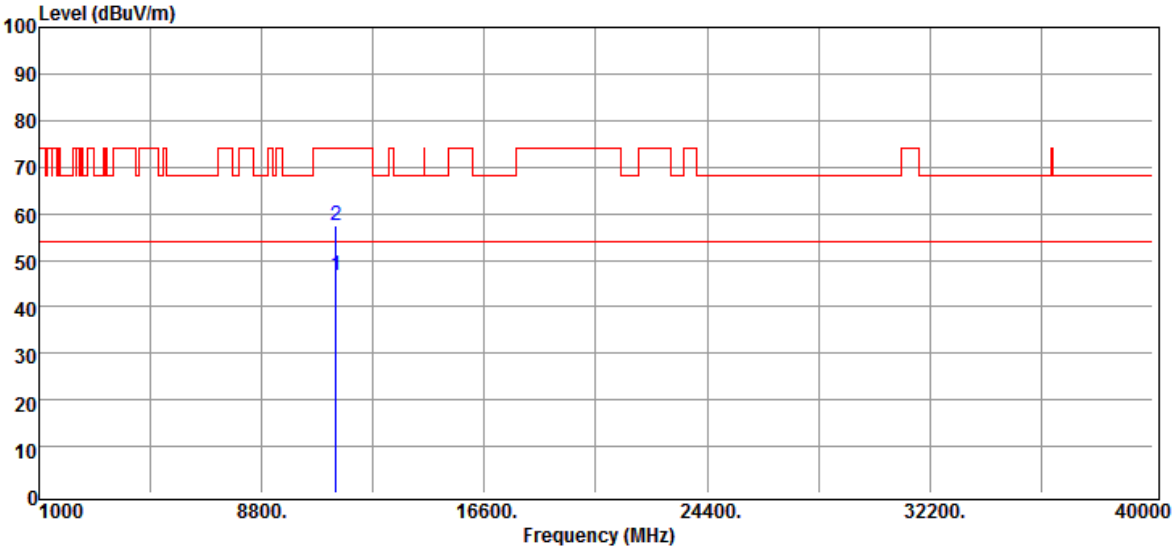
Operation Mode	:802.11n20 / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Jerry



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	33.86	12.98	46.84	54.00	-7.16
11400.00	Peak	44.52	12.98	57.50	74.00	-16.50

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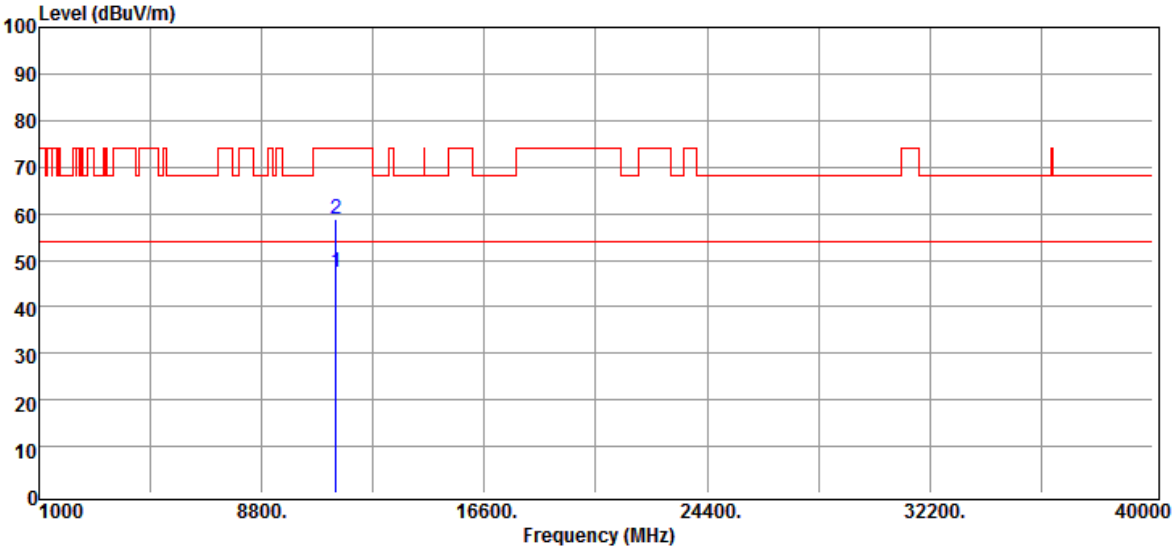
Operation Mode	:802.11n20 / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Jerry



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	34.37	12.98	47.35	54.00	-6.65
11400.00	Peak	45.83	12.98	58.81	74.00	-15.19

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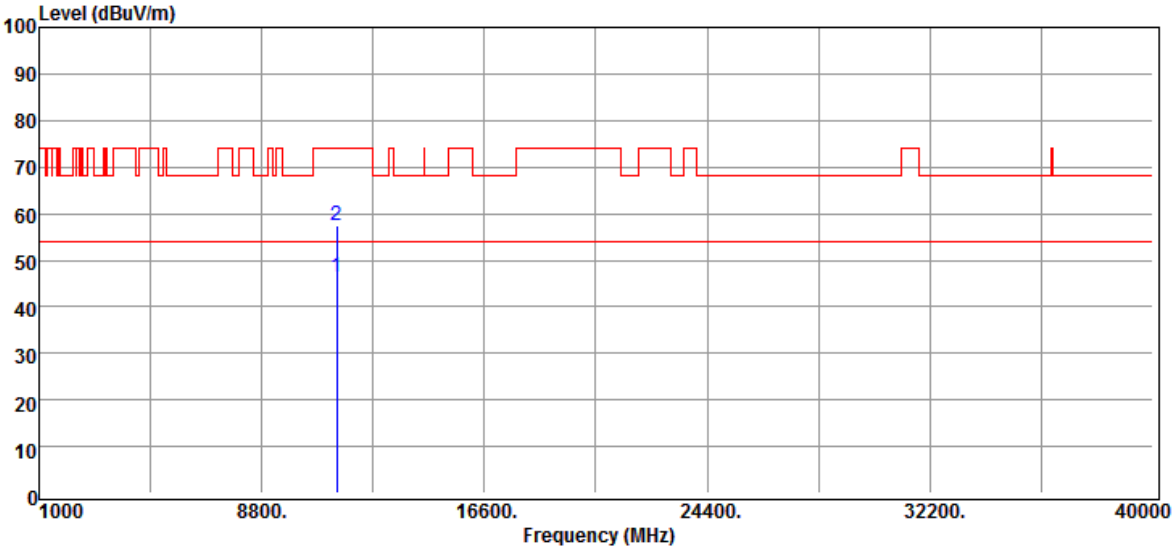
Operation Mode	:802.11n20 / Band3/4	Test Date	:2018-08-07
Test Mode	:Tx CH 144	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5720 MHz	Engineer	:Jerry



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	33.25	13.13	46.38	54.00	-7.62
11440.00	Peak	44.28	13.13	57.41	74.00	-16.59

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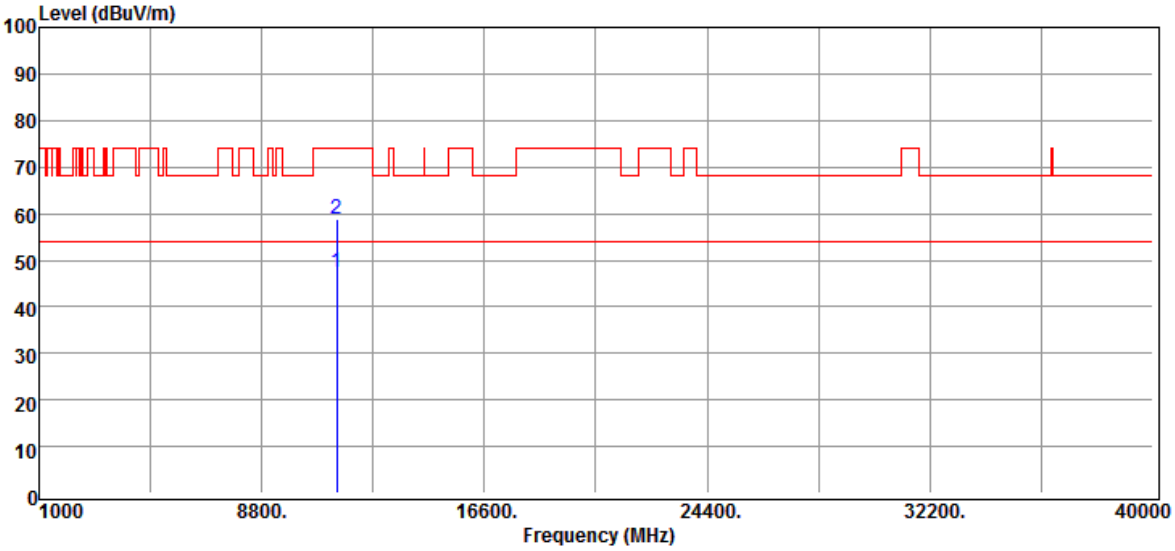
Operation Mode	:802.11n20 / Band3/4	Test Date	:2018-08-07
Test Mode	:Tx CH 144	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5720 MHz	Engineer	:Jerry



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	34.19	13.13	47.32	54.00	-6.68
11440.00	Peak	45.52	13.13	58.65	74.00	-15.35

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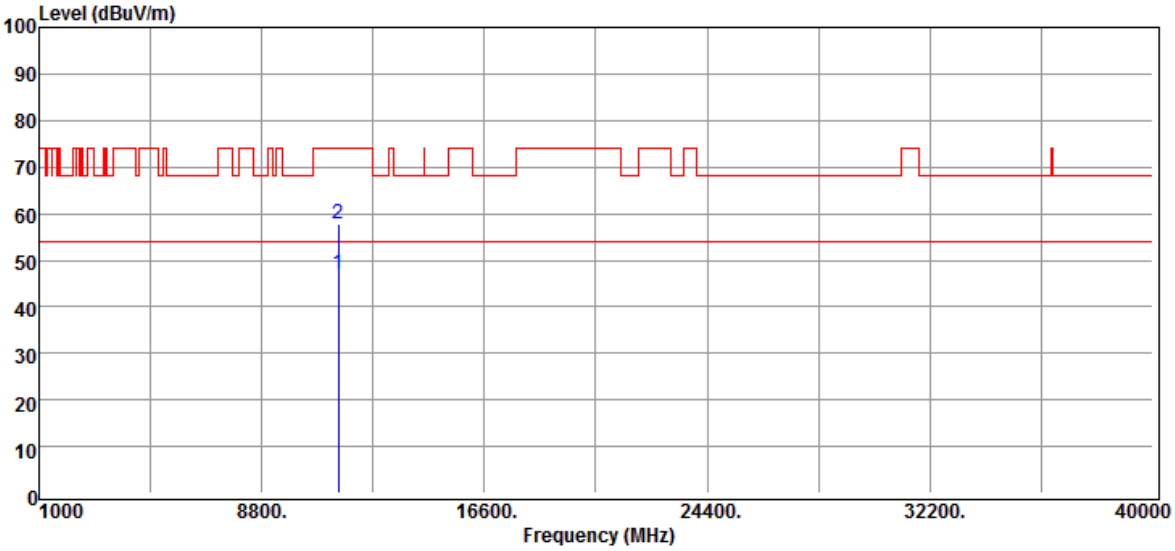
Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode	:802.11n20 / Band4	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Jerry



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	33.69	13.32	47.01	54.00	-6.99
11490.00	Peak	44.38	13.32	57.70	74.00	-16.30

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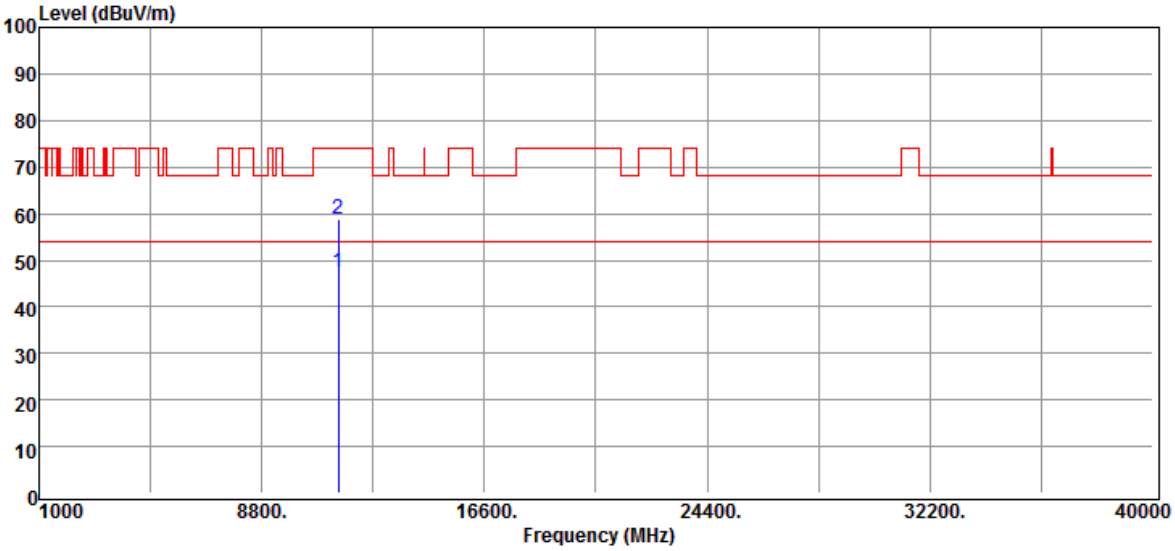
Operation Mode	:802.11n20 / Band4	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Jerry



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	34.18	13.32	47.50	54.00	-6.50
11490.00	Peak	45.53	13.32	58.85	74.00	-15.15

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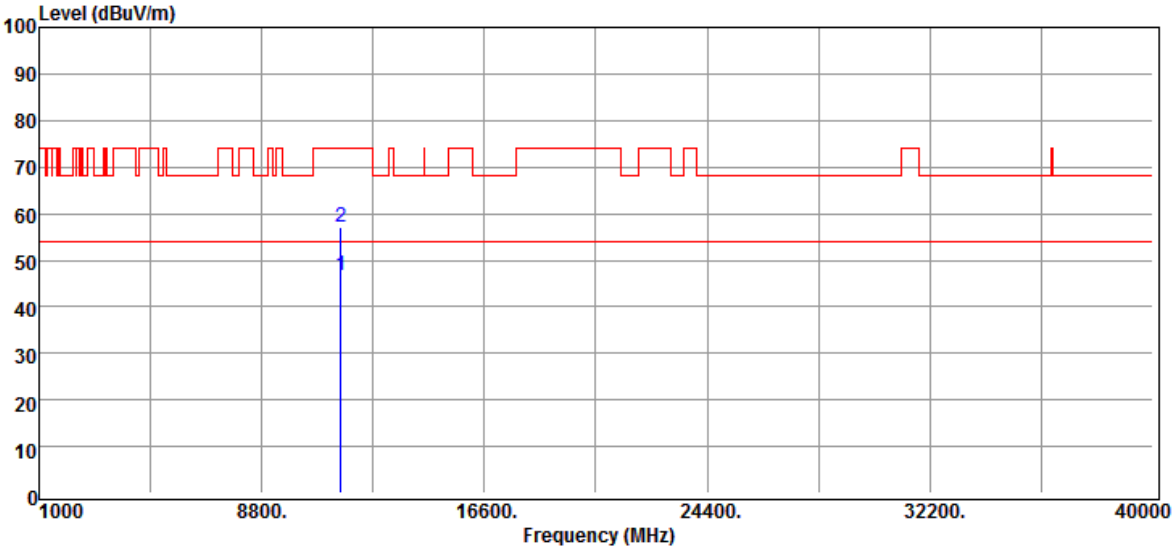
Operation Mode	:802.11n20 / Band4	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5785 MHz	Engineer	:Jerry



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	33.56	13.01	46.57	54.00	-7.43
11570.00	Peak	44.21	13.01	57.22	74.00	-16.78

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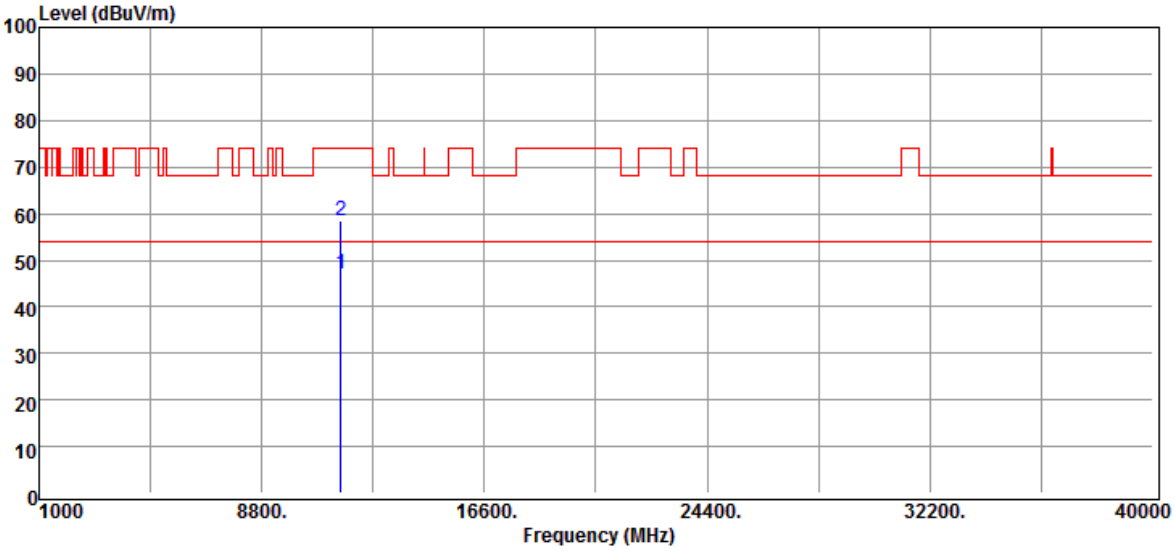
Operation Mode	:802.11n20 / Band4	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5785 MHz	Engineer	:Jerry



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	34.11	13.01	47.12	54.00	-6.88
11570.00	Peak	45.51	13.01	58.52	74.00	-15.48

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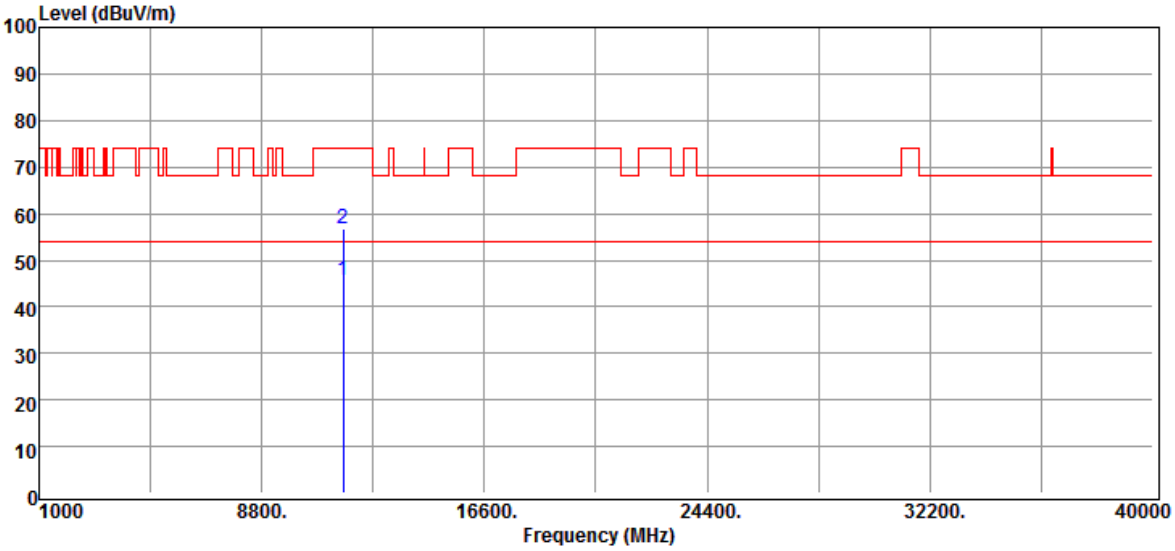
Operation Mode	:802.11n20 / Band4	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Jerry



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	32.79	12.95	45.74	54.00	-8.26
11650.00	Peak	43.68	12.95	56.63	74.00	-17.37

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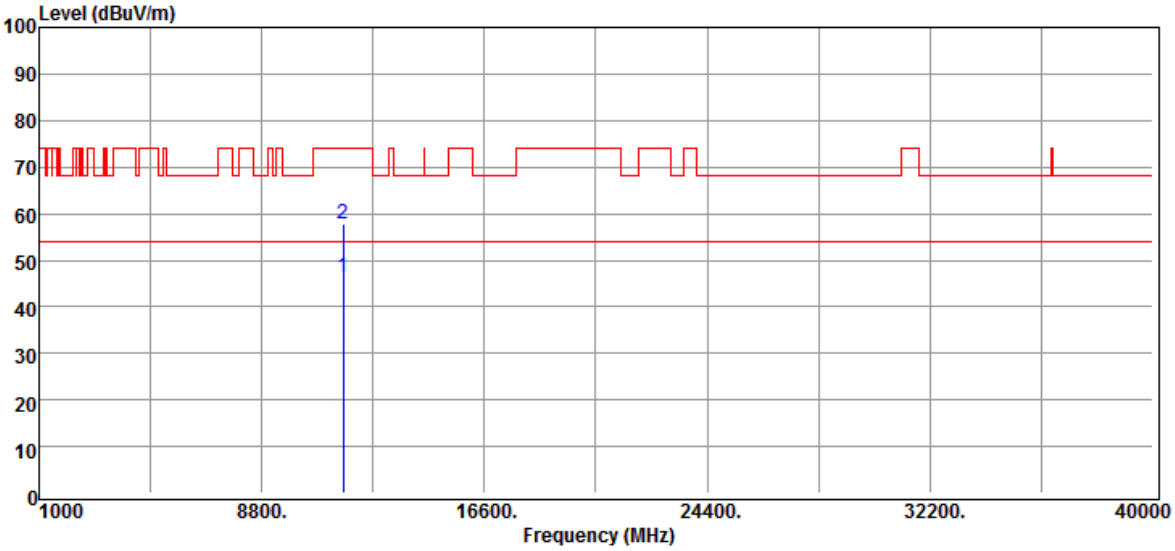
Operation Mode	:802.11n20 / Band4	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Jerry



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	33.52	12.95	46.47	54.00	-7.53
11650.00	Peak	44.87	12.95	57.82	74.00	-16.18

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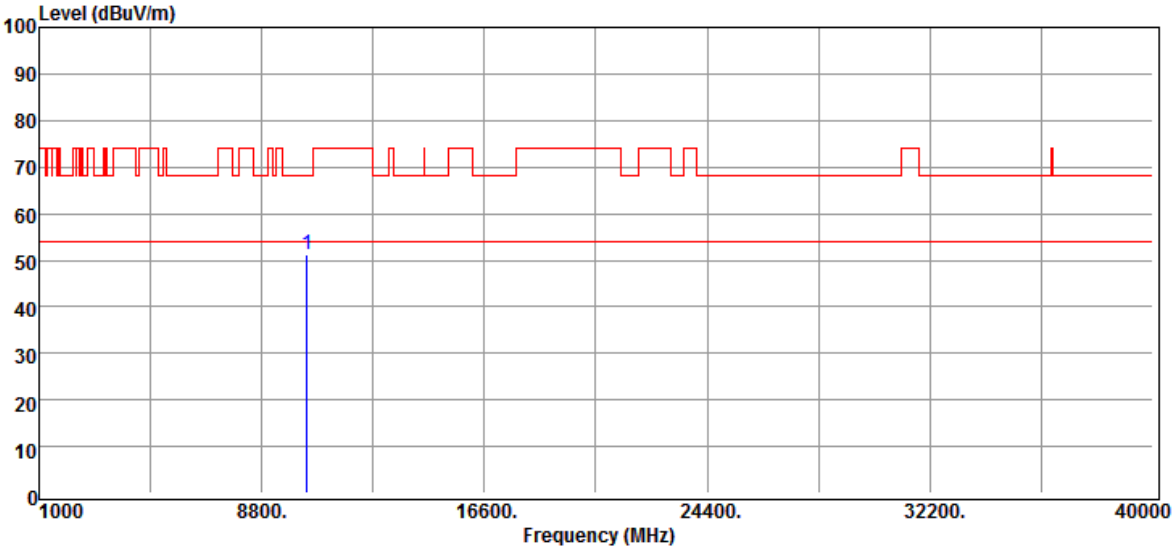
Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode	:802.11n40 / Band1	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5190 MHz	Engineer	:Jerry



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	38.82	12.44	51.26	68.20	-16.94

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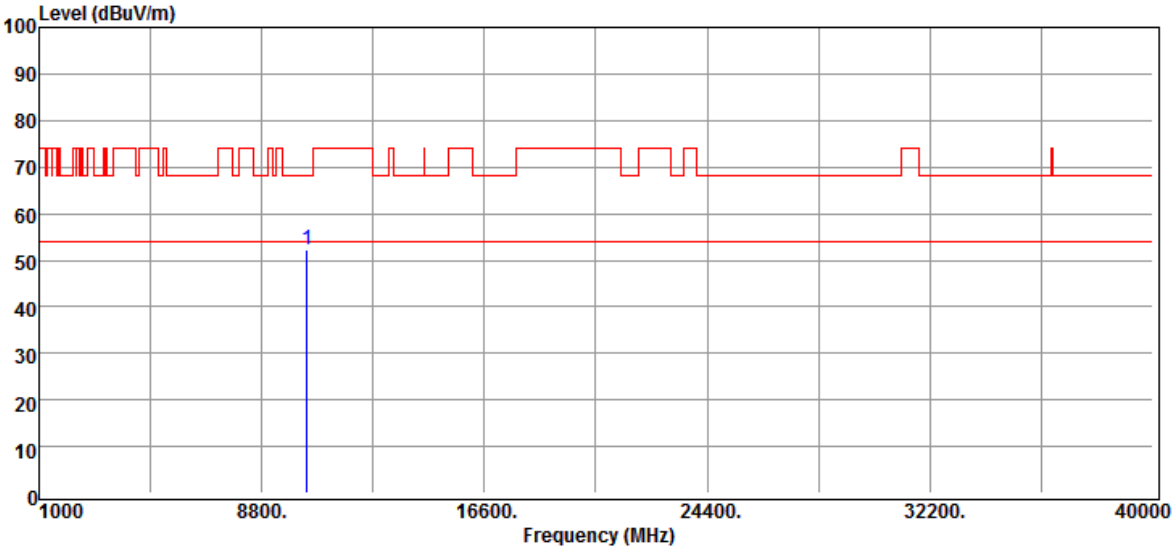
Operation Mode	:802.11n40 / Band1	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5190 MHz	Engineer	:Jerry



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	39.78	12.44	52.22	68.20	-15.98

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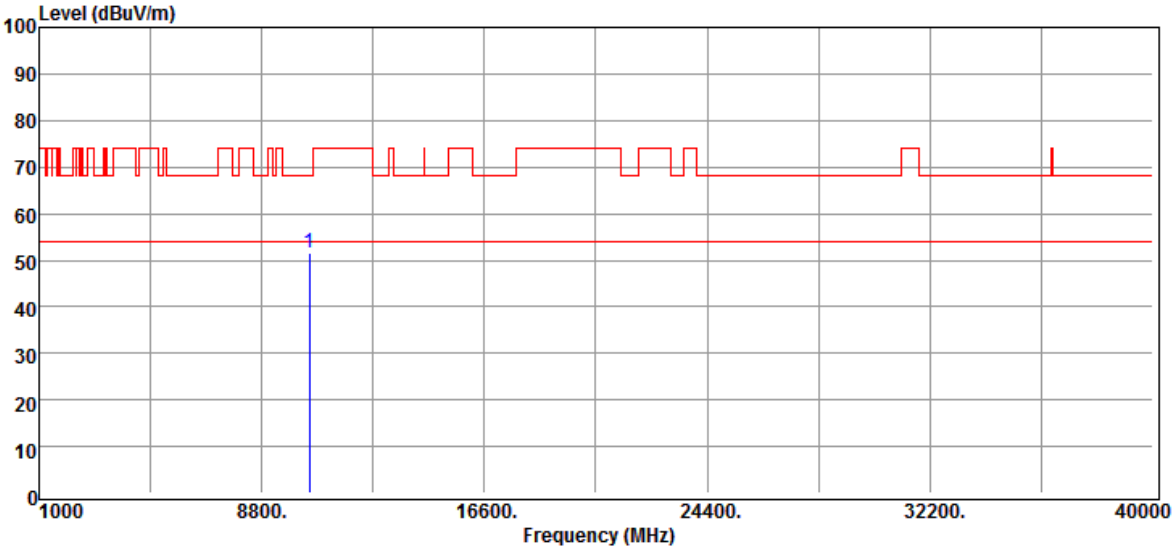
Operation Mode	:802.11n40 / Band1	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5230 MHz	Engineer	:Jerry



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	38.97	12.55	51.52	68.20	-16.68

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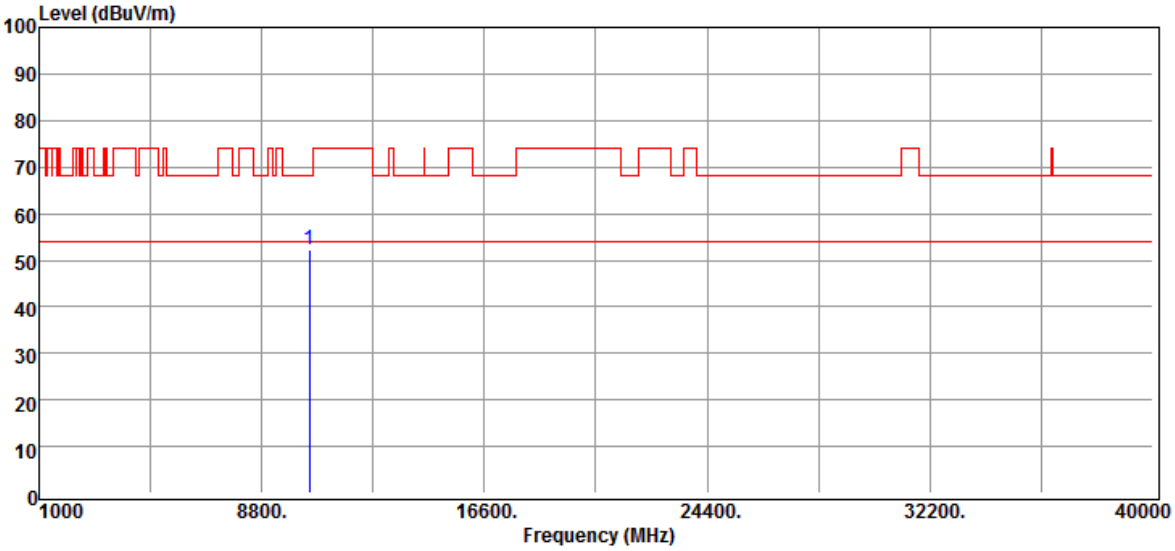
Operation Mode	:802.11n40 / Band1	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5230 MHz	Engineer	:Jerry



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	39.83	12.55	52.38	68.20	-15.82

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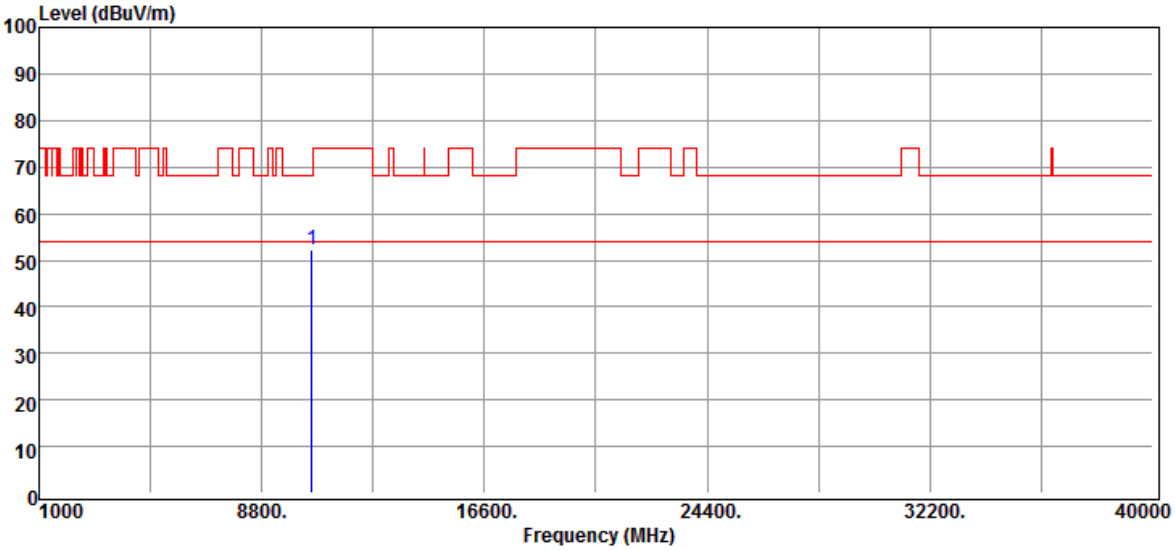
Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode	:802.11n40 / Band2	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5270 MHz	Engineer	:Jerry



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	39.92	12.49	52.41	68.20	-15.79

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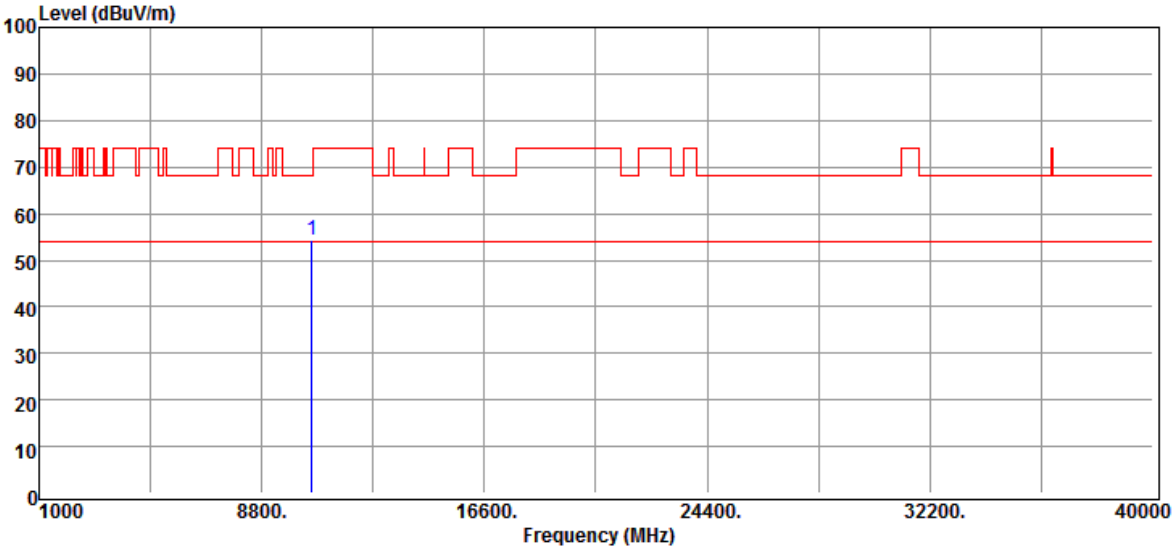
Operation Mode	:802.11n40 / Band2	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5270 MHz	Engineer	:Jerry



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	41.87	12.49	54.36	68.20	-13.84

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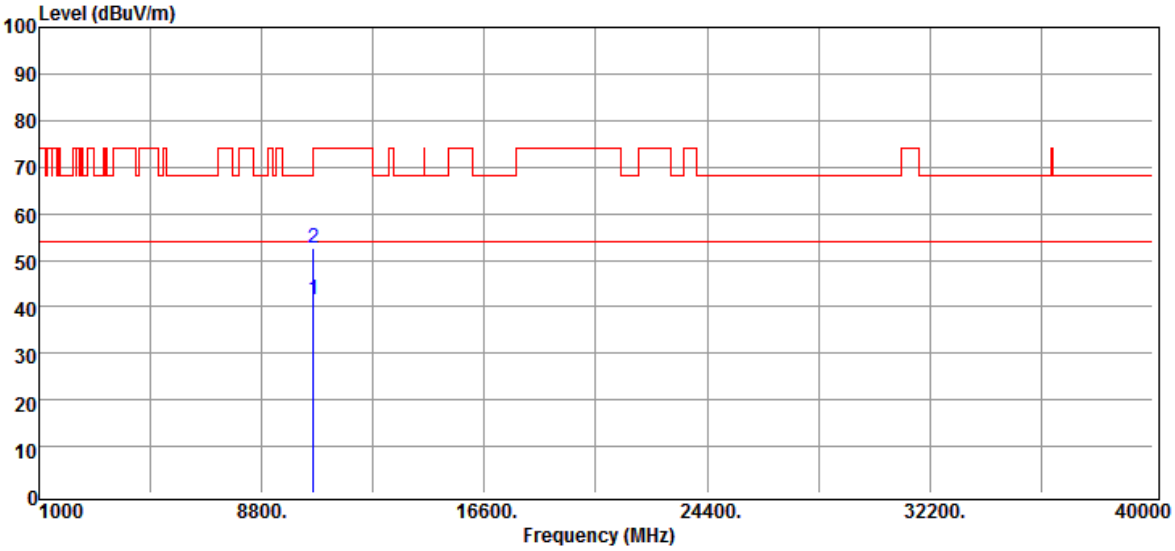
Operation Mode	:802.11n40 / Band2	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5310 MHz	Engineer	:Jerry



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	29.25	12.17	41.42	54.00	-12.58
10620.00	Peak	40.55	12.17	52.72	74.00	-21.28

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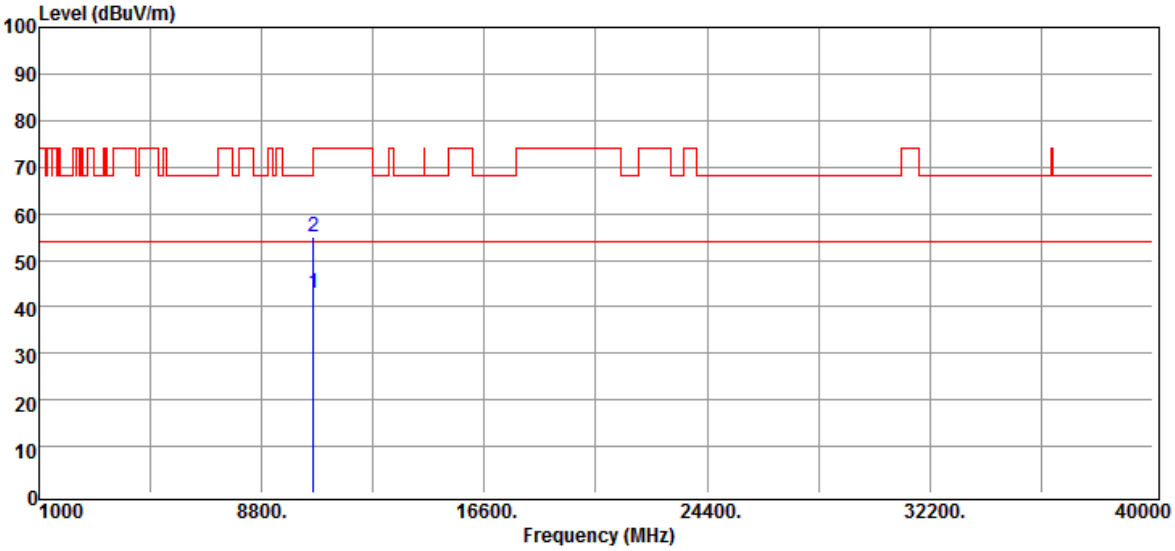
Operation Mode	:802.11n40 / Band2	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5310 MHz	Engineer	:Jerry



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	30.79	12.17	42.96	54.00	-11.04
10620.00	Peak	42.83	12.17	55.00	74.00	-19.00

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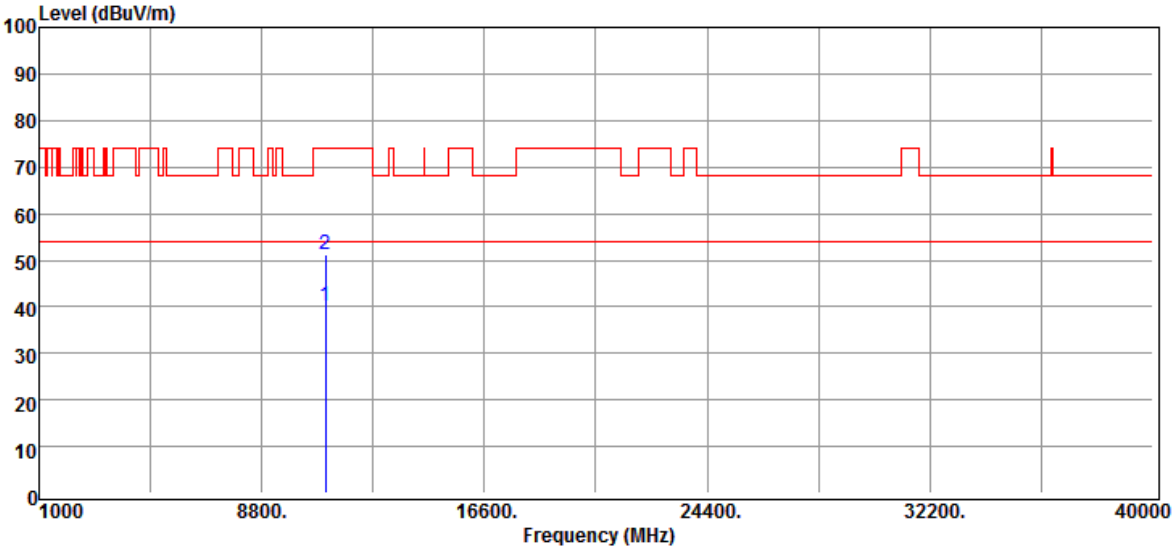
Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5510 MHz	Engineer	:Jerry



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	29.04	11.10	40.14	54.00	-13.86
11020.00	Peak	40.13	11.10	51.23	74.00	-22.77

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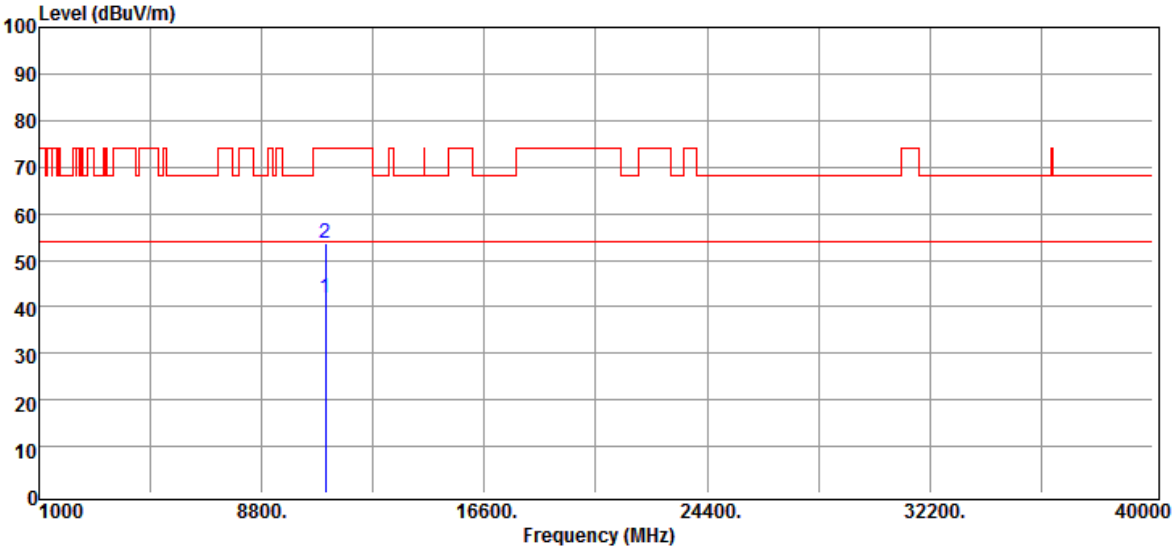
Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5510 MHz	Engineer	:Jerry



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	30.69	11.10	41.79	54.00	-12.21
11020.00	Peak	42.56	11.10	53.66	74.00	-20.34

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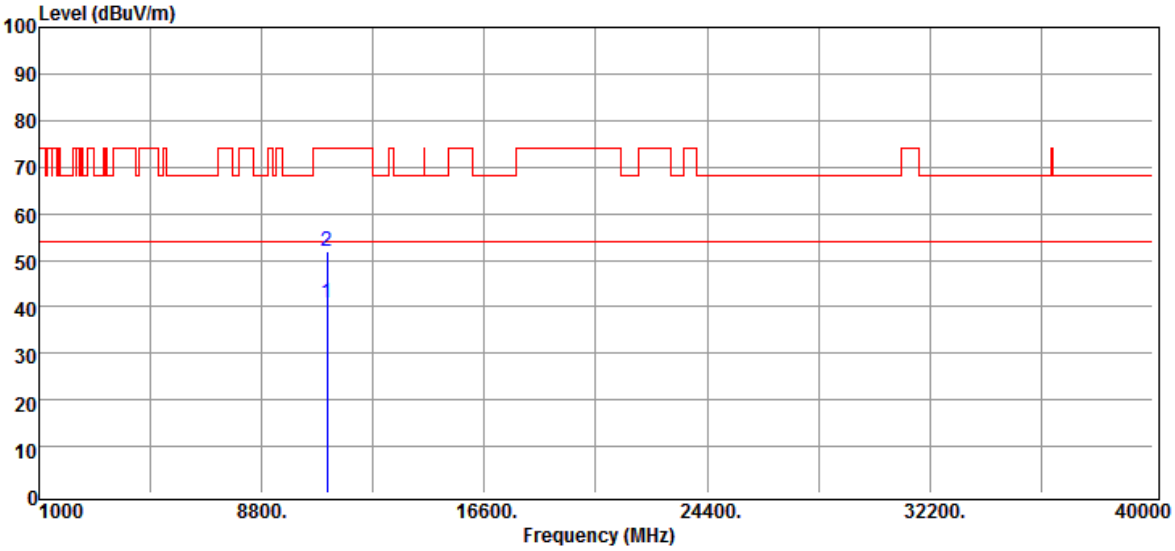
Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5550 MHz	Engineer	:Jerry



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	29.14	11.63	40.77	54.00	-13.23
11100.00	Peak	40.33	11.63	51.96	74.00	-22.04

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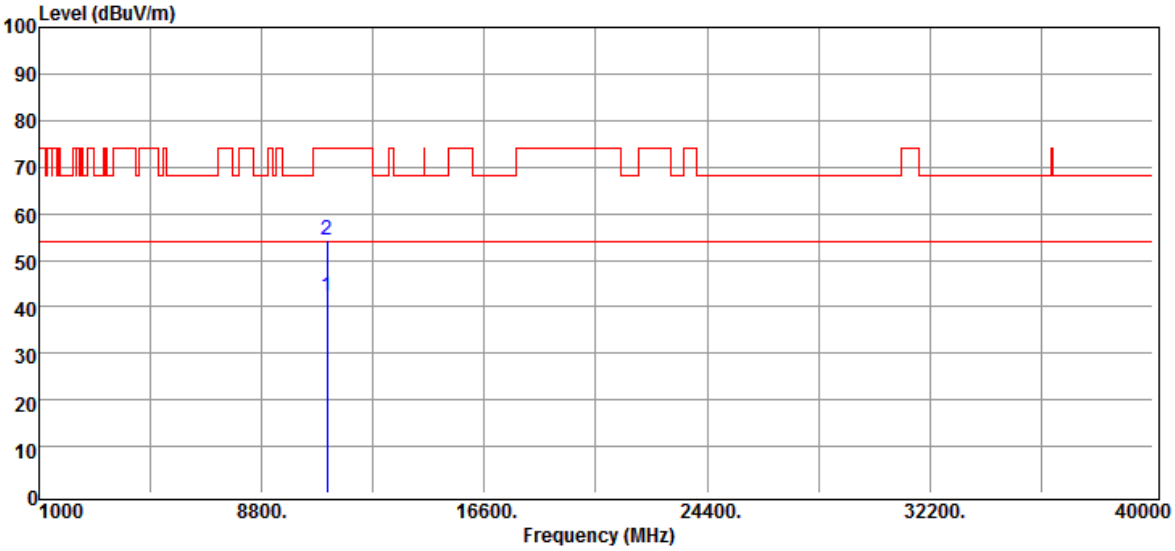
Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5550 MHz	Engineer	:Jerry



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	30.62	11.63	42.25	54.00	-11.75
11100.00	Peak	42.59	11.63	54.22	74.00	-19.78

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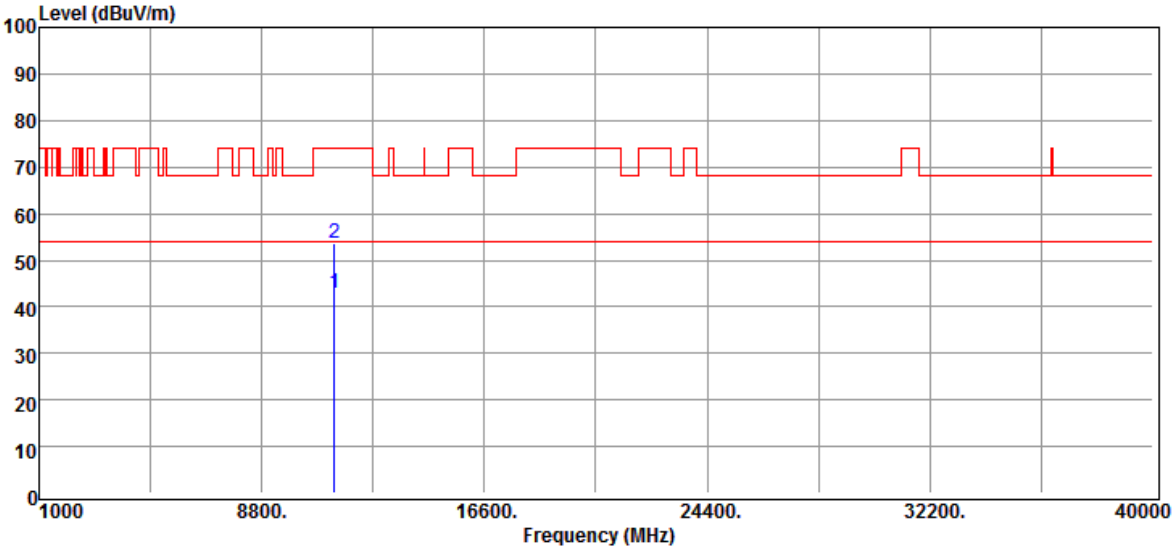
Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5670 MHz	Engineer	:Jerry



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	30.56	12.40	42.96	54.00	-11.04
11340.00	Peak	41.29	12.40	53.69	74.00	-20.31

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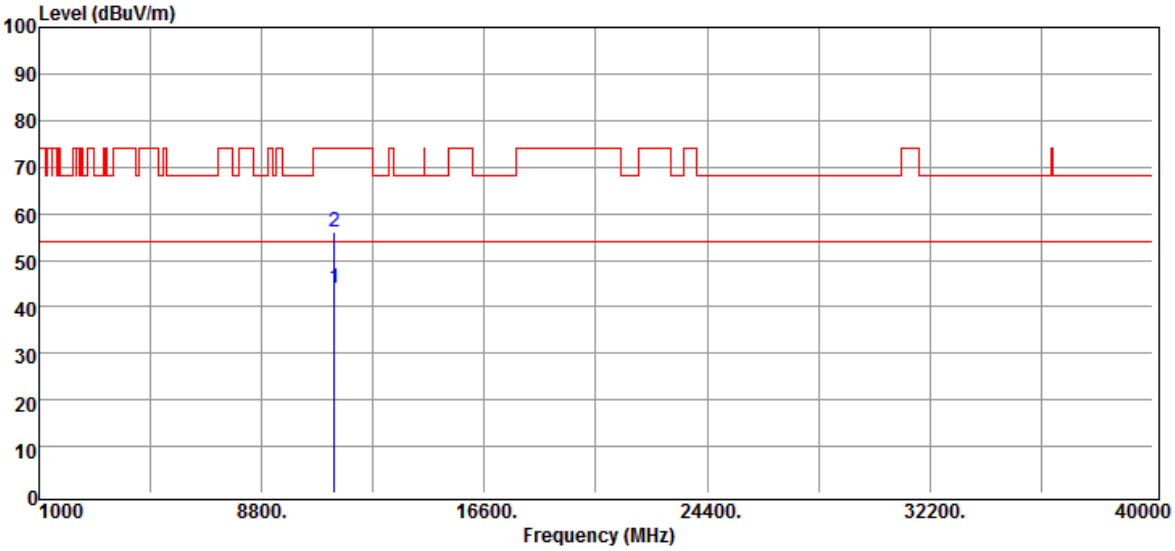
Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5670 MHz	Engineer	:Jerry



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	31.62	12.40	44.02	54.00	-9.98
11340.00	Peak	43.55	12.40	55.95	74.00	-18.05

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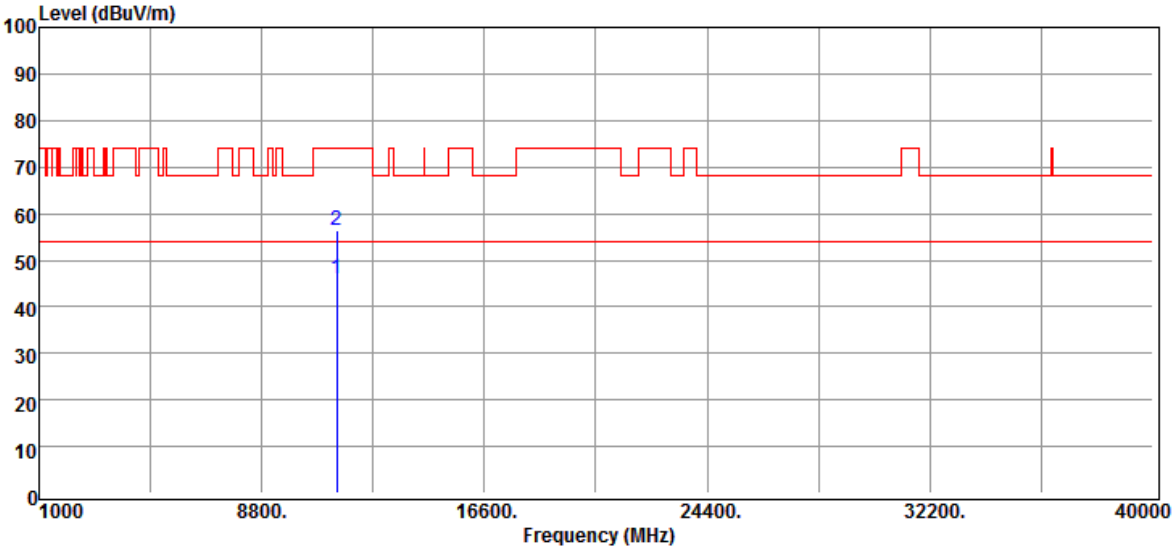
Operation Mode	:802.11n40 / Band3/4	Test Date	:2018-08-07
Test Mode	:Tx CH 142	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5710 MHz	Engineer	:Jerry



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	33.13	13.05	46.18	54.00	-7.82
11420.00	Peak	43.29	13.05	56.34	74.00	-17.66

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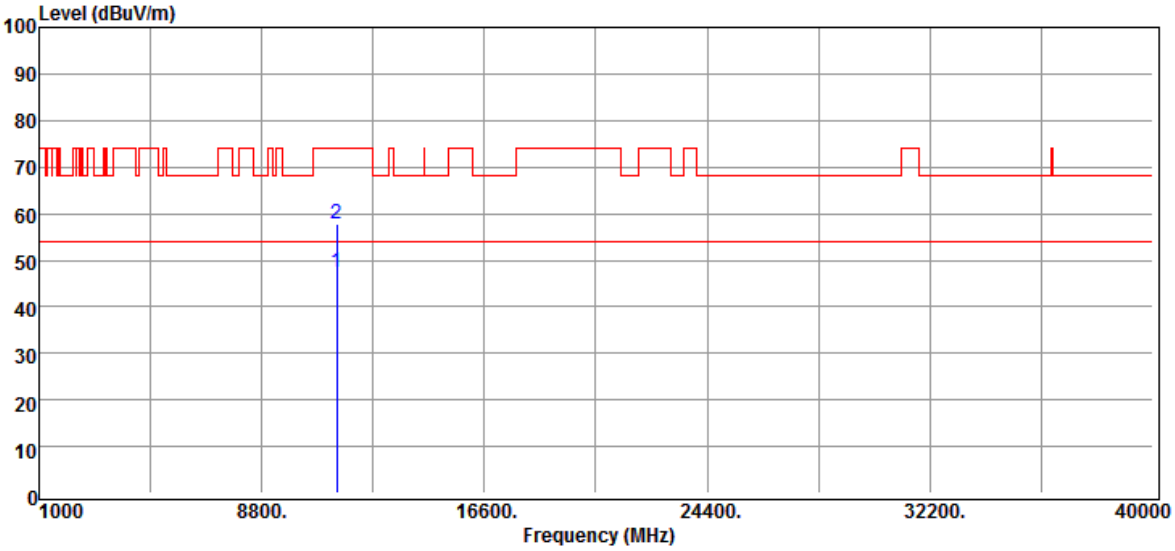
Operation Mode	:802.11n40 / Band3/4	Test Date	:2018-08-07
Test Mode	:Tx CH 142	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5710 MHz	Engineer	:Jerry



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	34.28	13.05	47.33	54.00	-6.67
11420.00	Peak	44.60	13.05	57.65	74.00	-16.35

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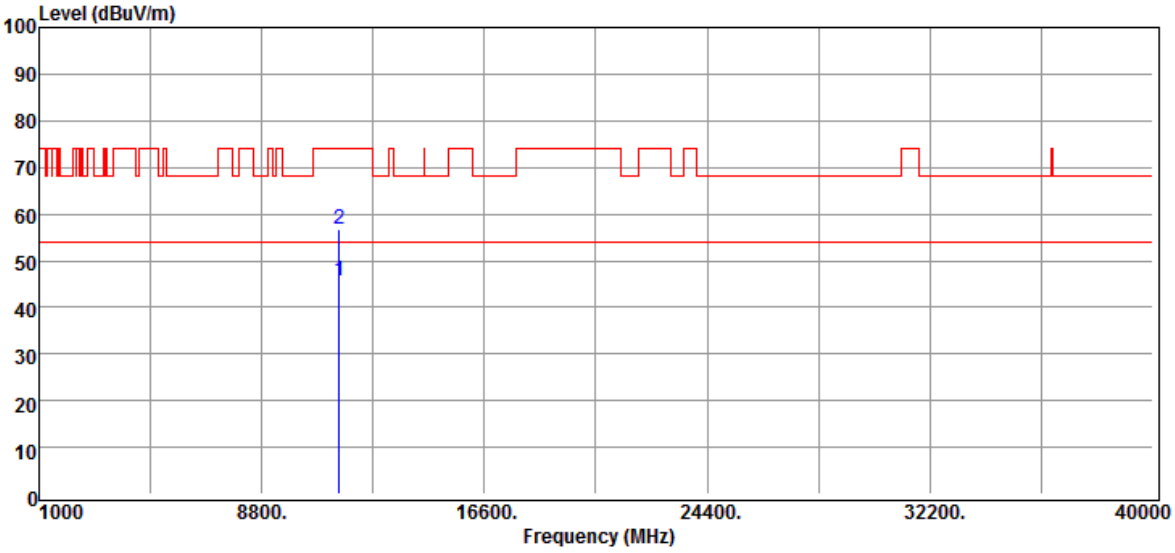
Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode	:802.11n40 / Band4	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5755 MHz	Engineer	:Jerry



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	32.37	13.31	45.68	54.00	-8.32
11510.00	Peak	43.28	13.31	56.59	74.00	-17.41

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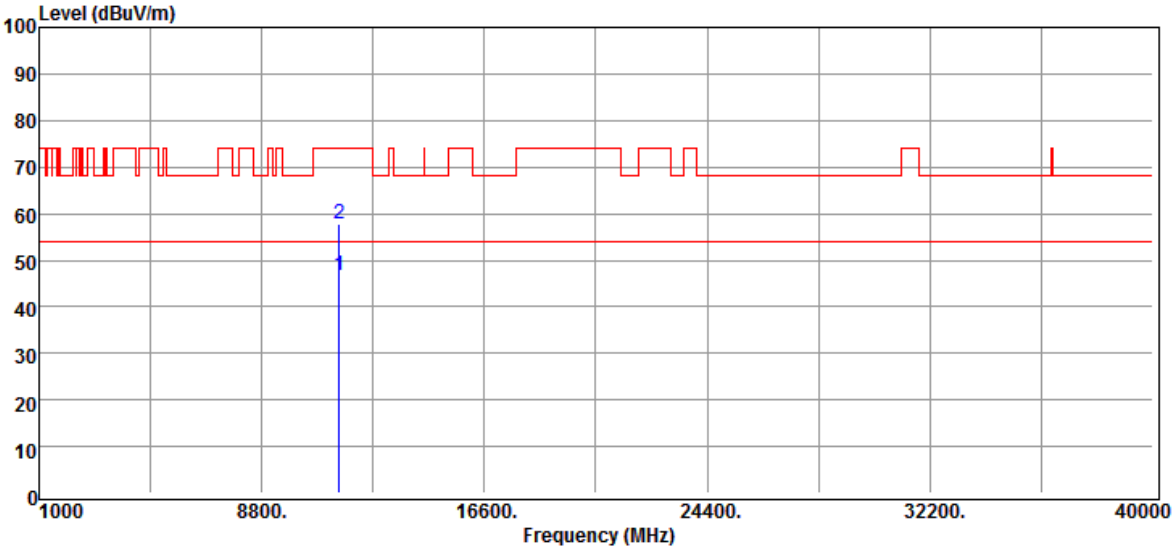
Operation Mode	:802.11n40 / Band4	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5755 MHz	Engineer	:Jerry



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	33.58	13.31	46.89	54.00	-7.11
11510.00	Peak	44.36	13.31	57.67	74.00	-16.33

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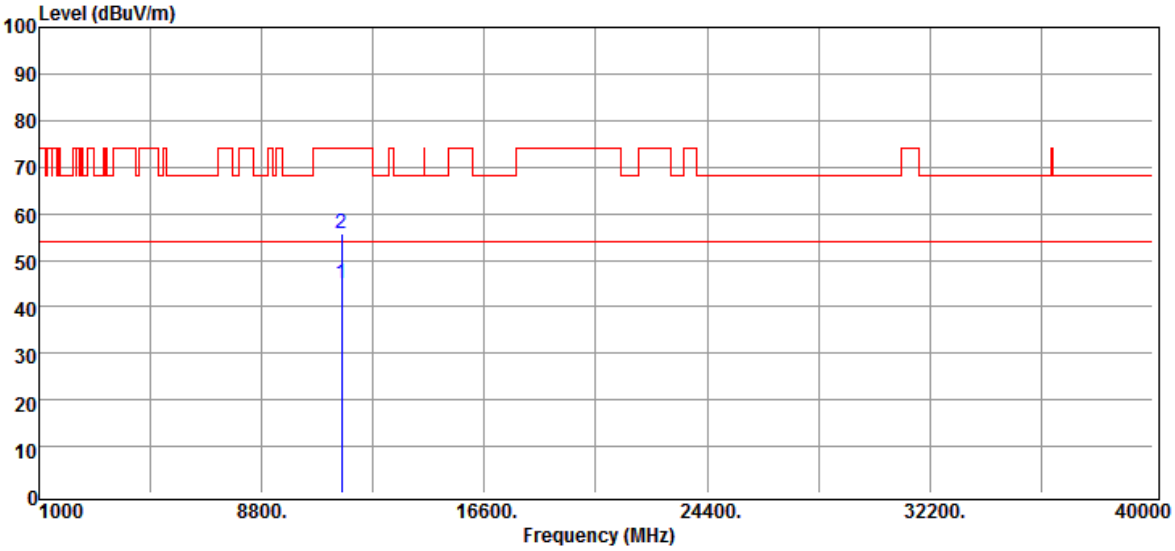
Operation Mode	:802.11n40 / Band4	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5795 MHz	Engineer	:Jerry



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	32.11	12.92	45.03	54.00	-8.97
11590.00	Peak	42.87	12.92	55.79	74.00	-18.21

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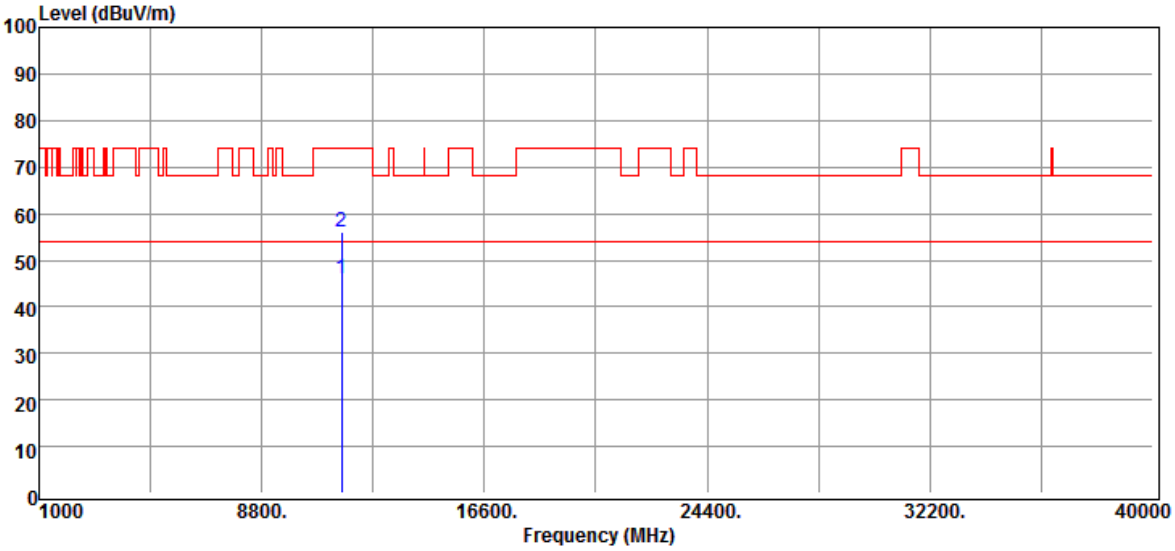
Operation Mode	:802.11n40 / Band4	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5795 MHz	Engineer	:Jerry



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	33.19	12.92	46.11	54.00	-7.89
11590.00	Peak	43.28	12.92	56.20	74.00	-17.80

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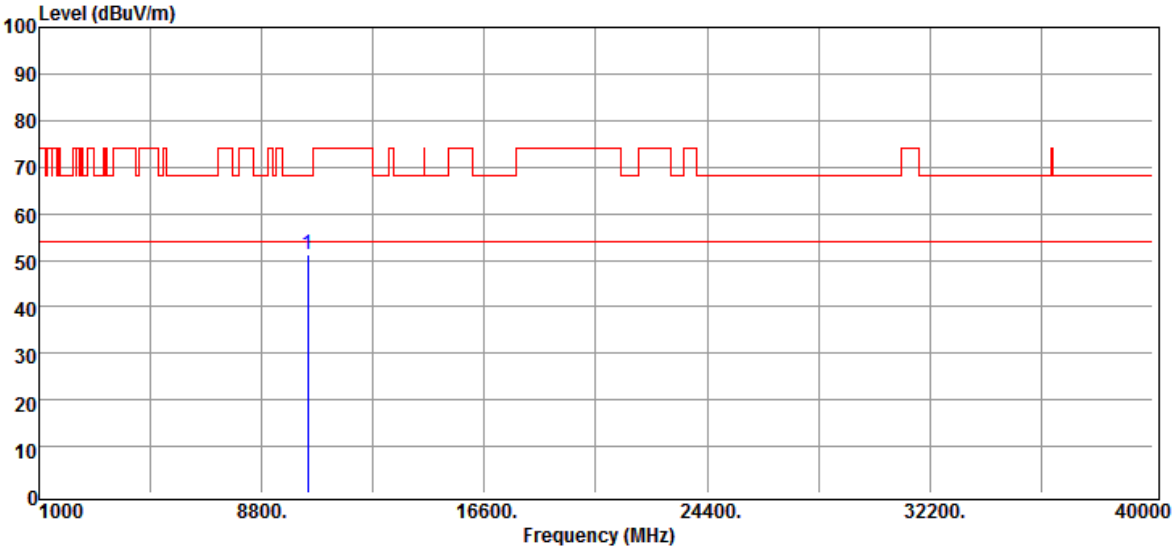
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode	:802.11ac80 / Band1	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5210 MHz	Engineer	:Jerry



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	38.65	12.49	51.14	68.20	-17.06

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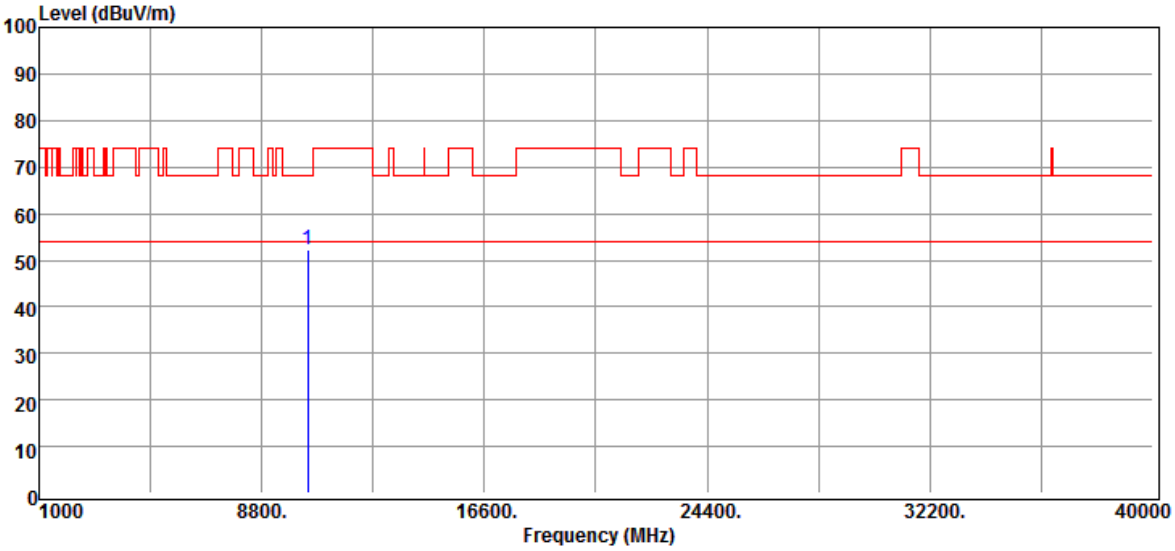
Operation Mode	:802.11ac80 / Band1	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5210 MHz	Engineer	:Jerry



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	39.92	12.49	52.41	68.20	-15.79

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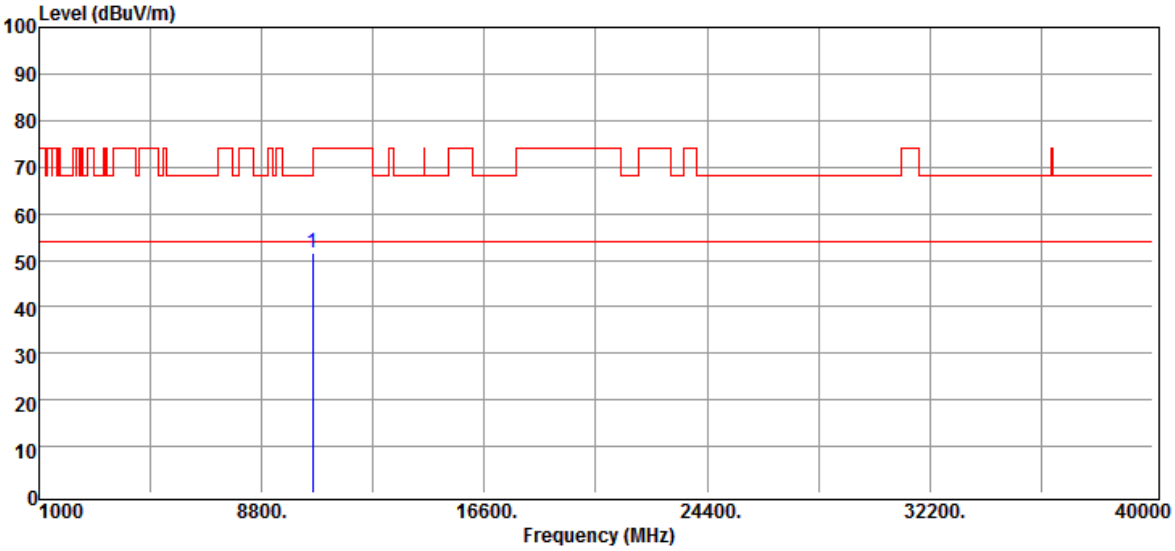
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode	:802.11ac80 / Band2	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5290 MHz	Engineer	:Jerry



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	39.27	12.36	51.63	68.20	-16.57

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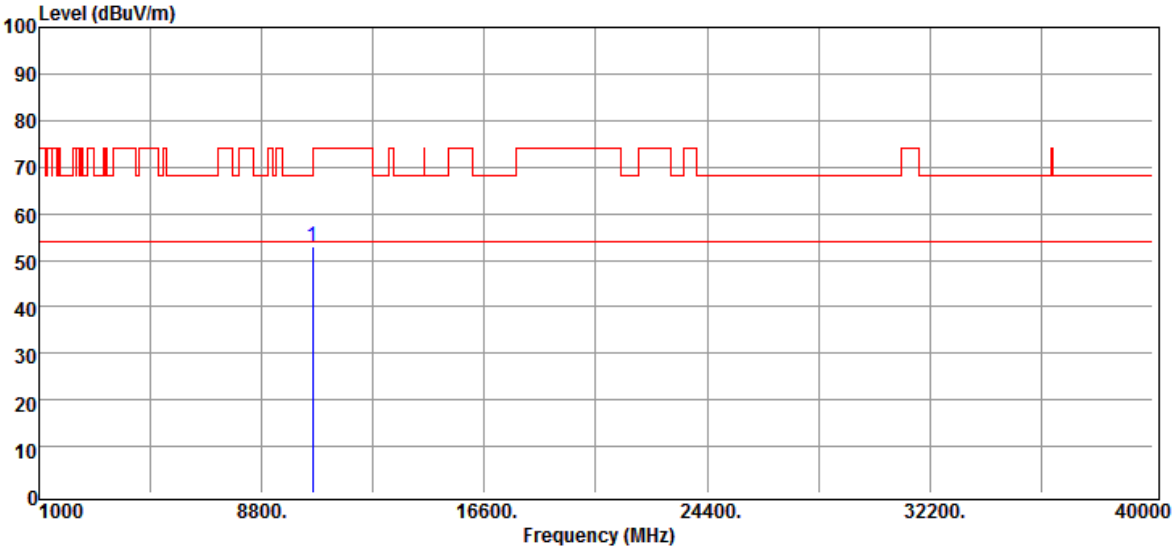
Operation Mode	:802.11ac80 / Band2	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5290 MHz	Engineer	:Jerry



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	40.53	12.36	52.89	68.20	-15.31

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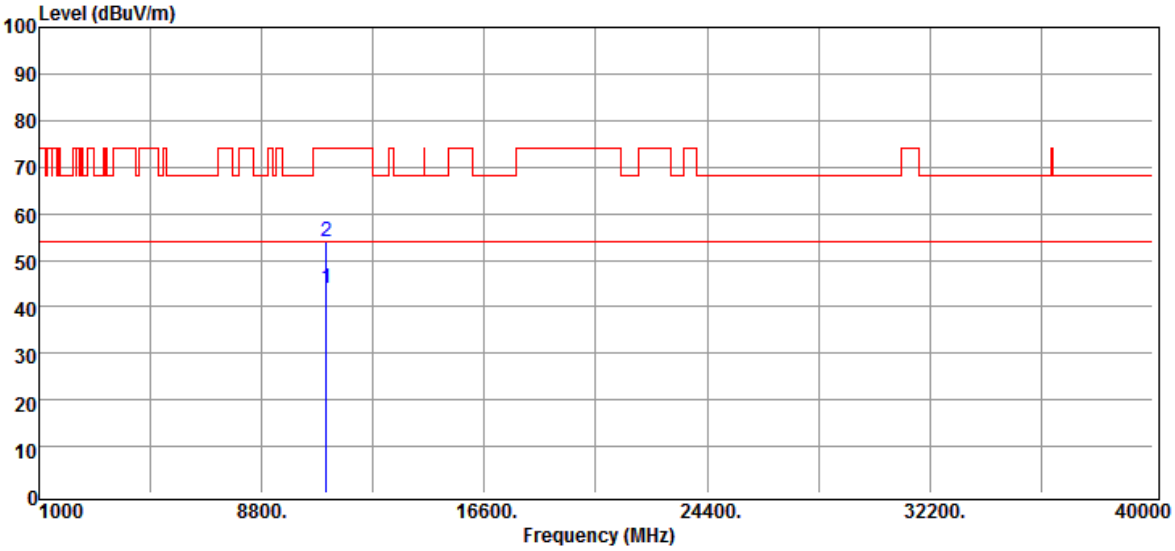
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode	:802.11ac80 / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5530 MHz	Engineer	:Jerry



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	32.69	11.37	44.06	54.00	-9.94
11060.00	Peak	42.51	11.37	53.88	74.00	-20.12

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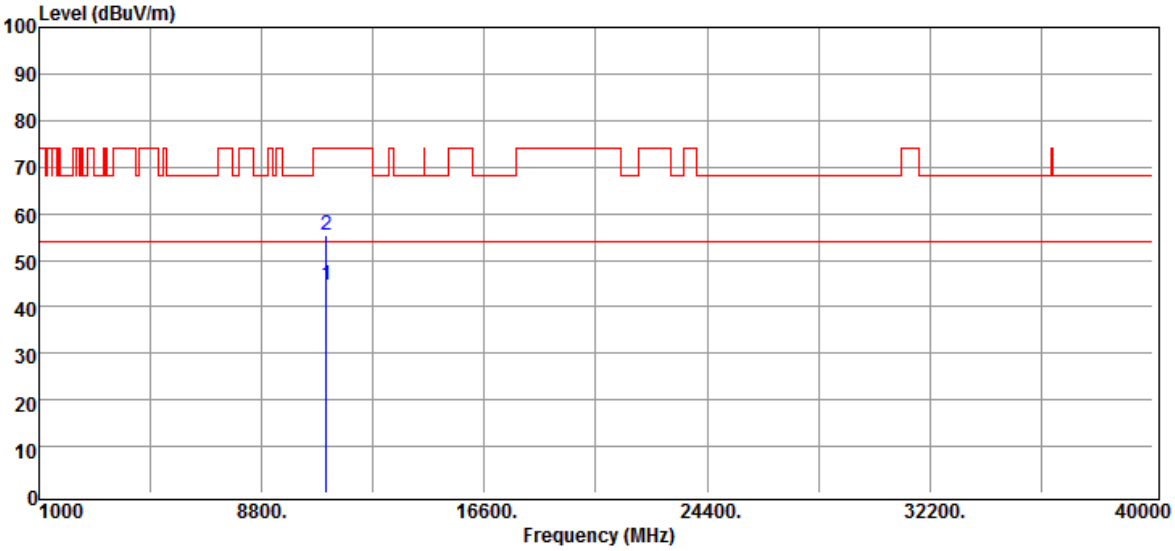
Operation Mode	:802.11ac80 / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5530 MHz	Engineer	:Jerry



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	33.27	11.37	44.64	54.00	-9.36
11060.00	Peak	43.88	11.37	55.25	74.00	-18.75

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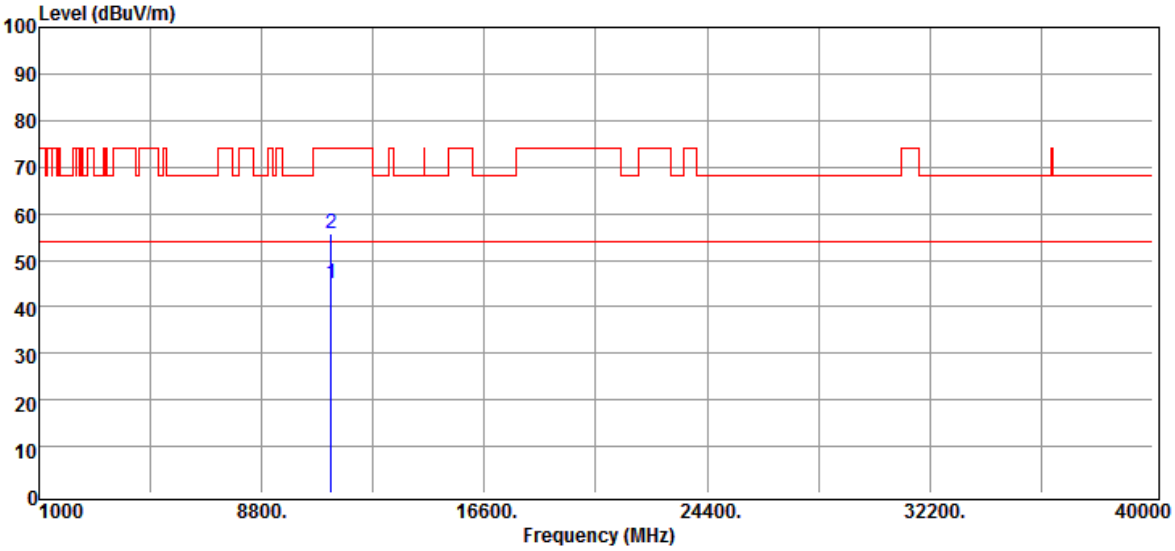
Operation Mode	:802.11ac80 / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5610 MHz	Engineer	:Jerry



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	32.77	12.35	45.12	54.00	-8.88
11220.00	Peak	43.27	12.35	55.62	74.00	-18.38

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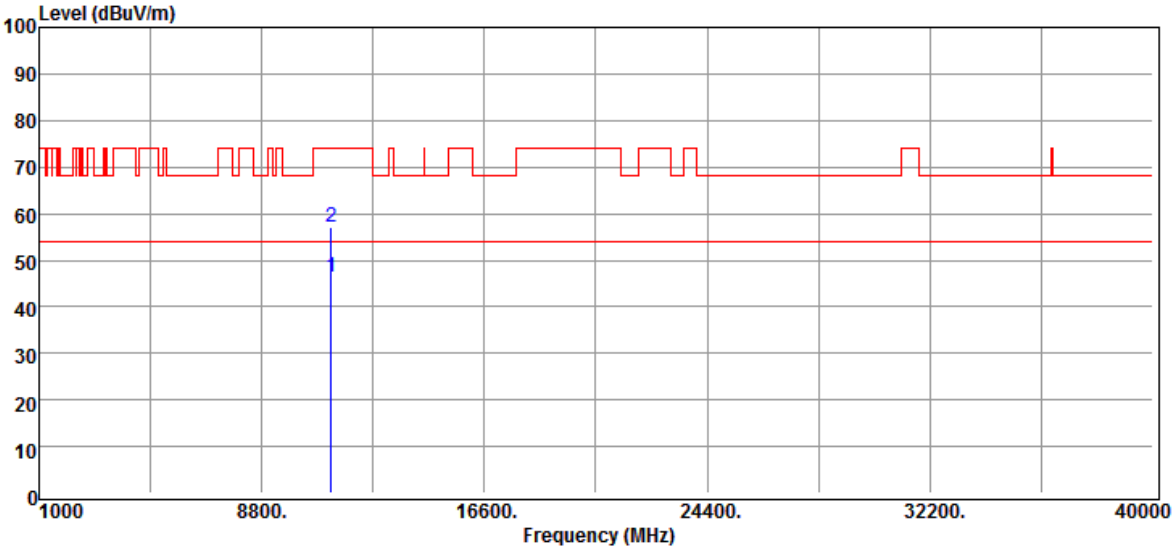
Operation Mode	:802.11ac80 / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH Mid	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5610 MHz	Engineer	:Jerry



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	33.89	12.35	46.24	54.00	-7.76
11220.00	Peak	44.63	12.35	56.98	74.00	-17.02

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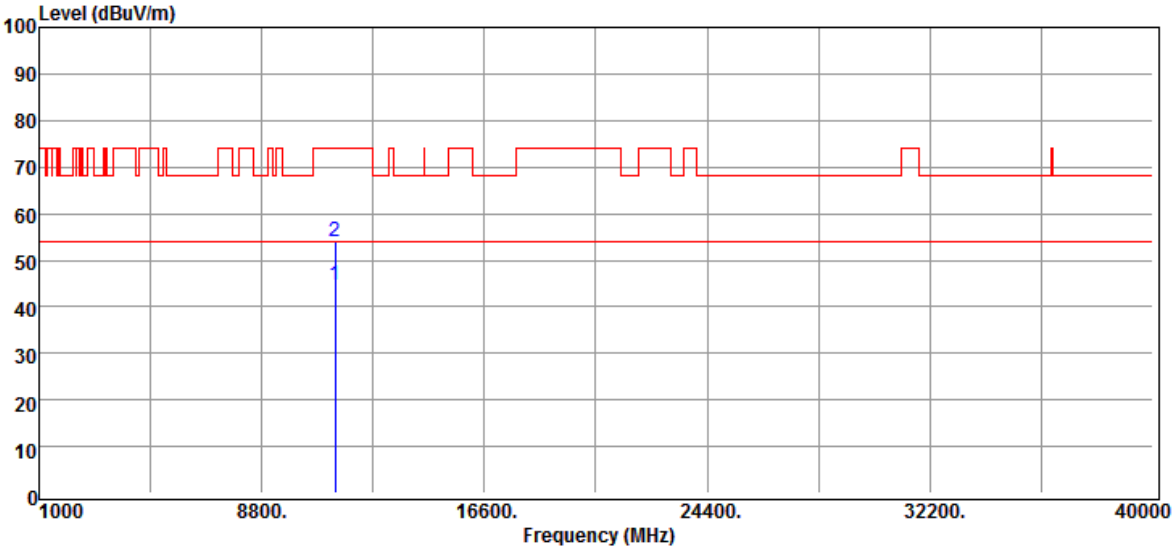
Operation Mode	:802.11ac80 / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5690 MHz	Engineer	:Jerry



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	31.84	12.79	44.63	54.00	-9.37
11380.00	Peak	41.23	12.79	54.02	74.00	-19.98

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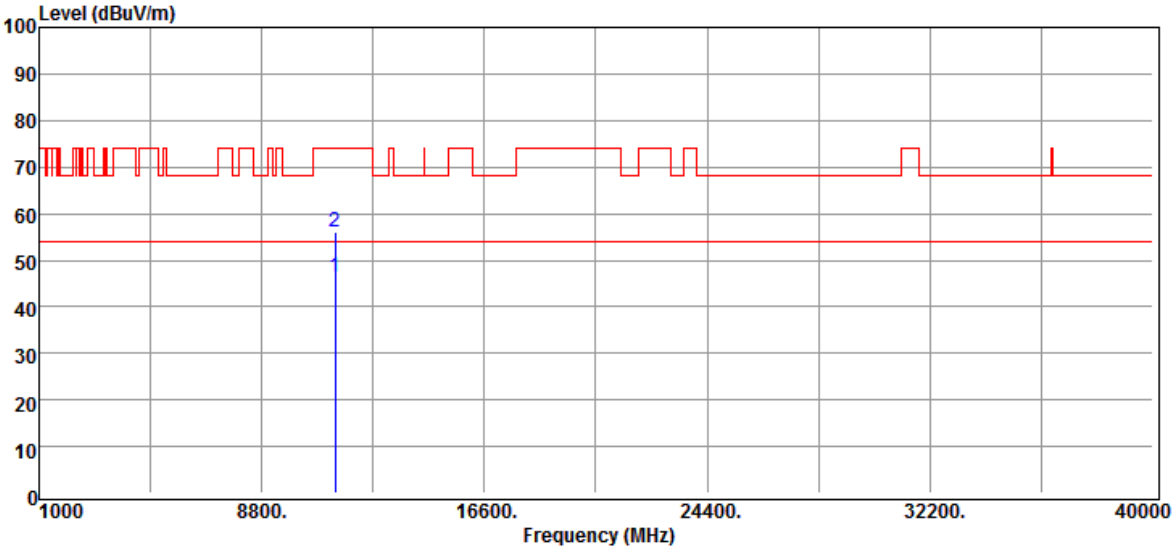
Operation Mode	:802.11ac80 / Band3	Test Date	:2018-08-07
Test Mode	:Tx CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5690 MHz	Engineer	:Jerry



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	33.69	12.79	46.48	54.00	-7.52
11380.00	Peak	43.26	12.79	56.05	74.00	-17.95

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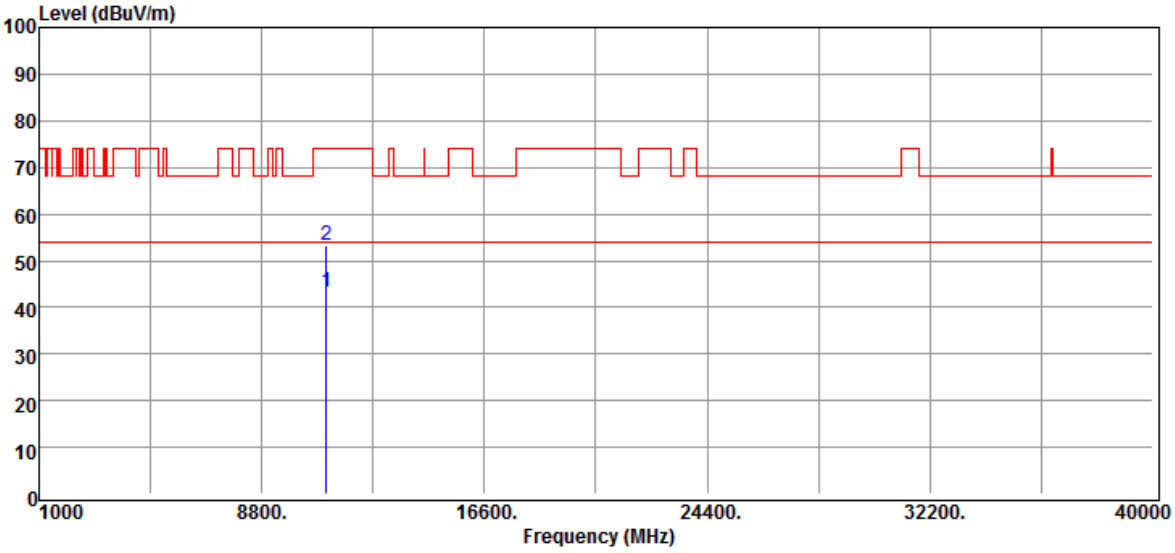
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode	:802.11ac80 / Band4	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5775 MHz	Engineer	:Jerry



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	31.73	11.37	43.10	54.00	-10.90
11060.00	Peak	42.01	11.37	53.38	74.00	-20.62

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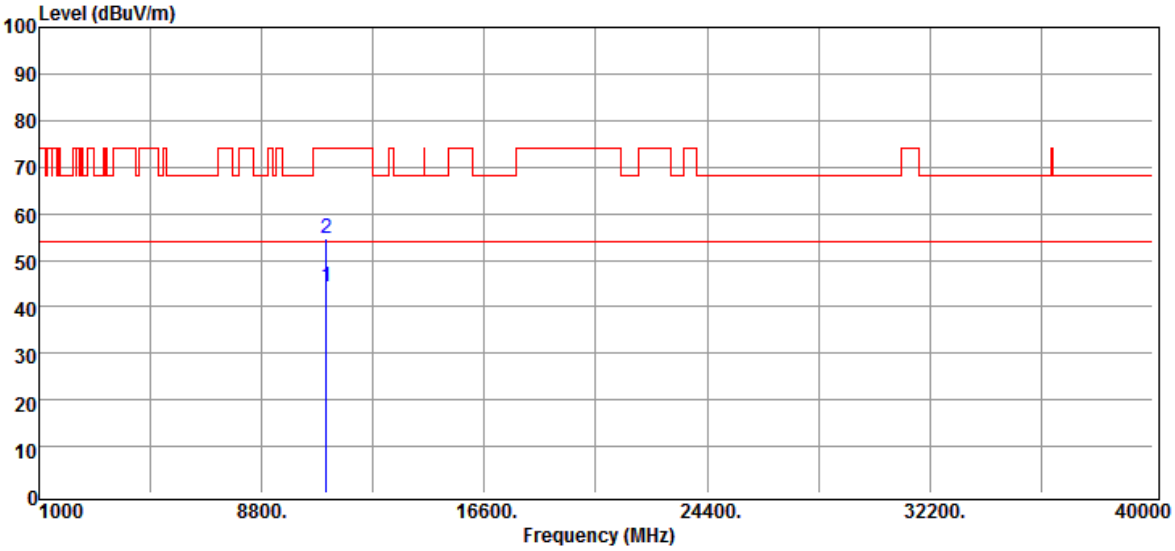
Operation Mode	:802.11ac80 / Band4	Test Date	:2018-08-07
Test Mode	:Tx CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5775 MHz	Engineer	:Jerry



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	32.85	11.37	44.22	54.00	-9.78
11060.00	Peak	43.29	11.37	54.66	74.00	-19.34

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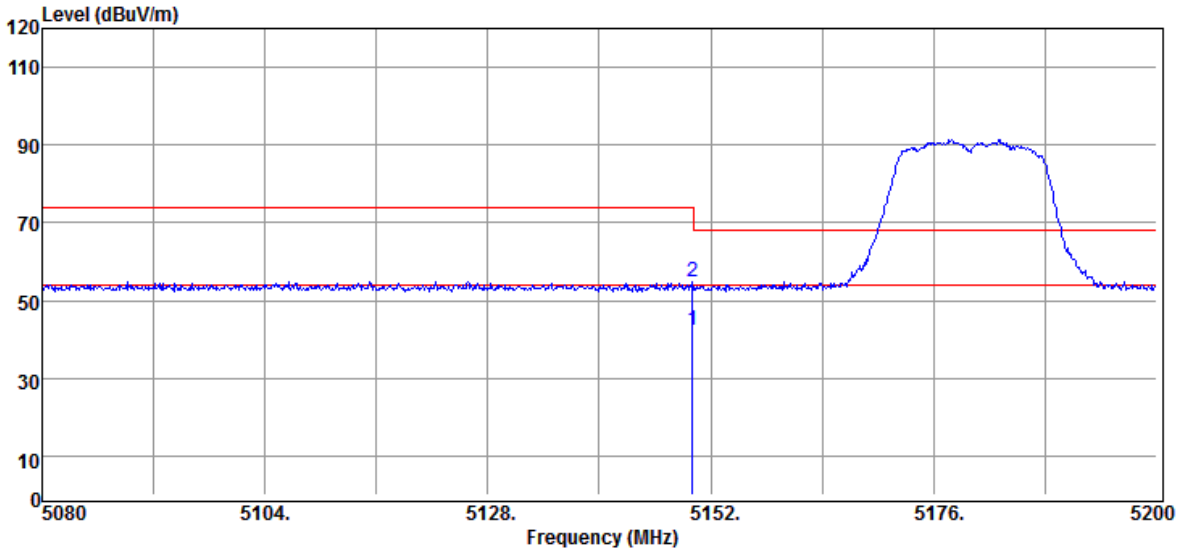
Band edge falling to restricted band

802.11a mode

Operation Mode	:802.11a / Band1	Test Date	:2018-08-06
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Jerry



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	40.49	1.84	42.33	54.00	-11.67
5150.00	Peak	53.07	1.84	54.91	74.00	-19.09

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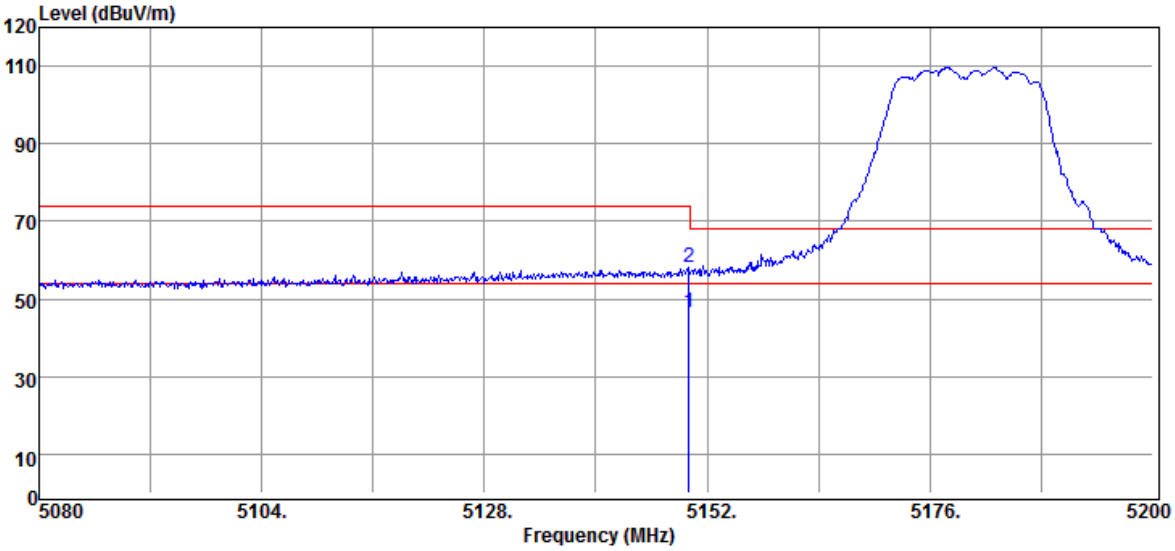
Operation Mode	:802.11a / Band1	Test Date	:2018-08-06
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Jerry



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	44.52	1.84	46.36	54.00	-7.64
5150.00	Peak	56.31	1.84	58.15	74.00	-15.85

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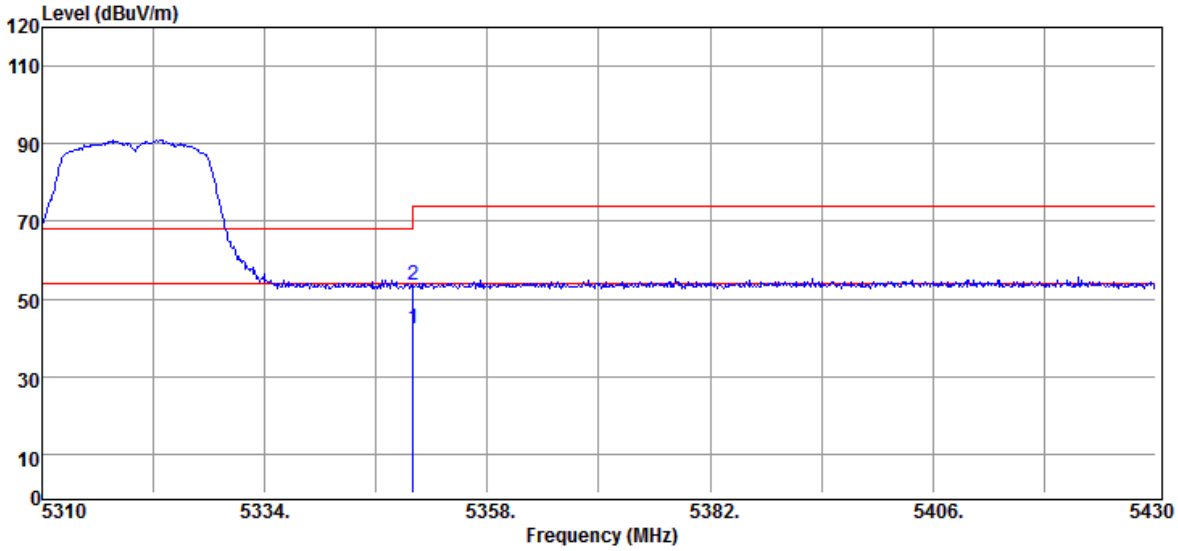
Operation Mode	:802.11a / Band2	Test Date	:2018-08-06
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	40.23	2.24	42.47	54.00	-11.53
5350.00	Peak	51.34	2.24	53.58	74.00	-20.42

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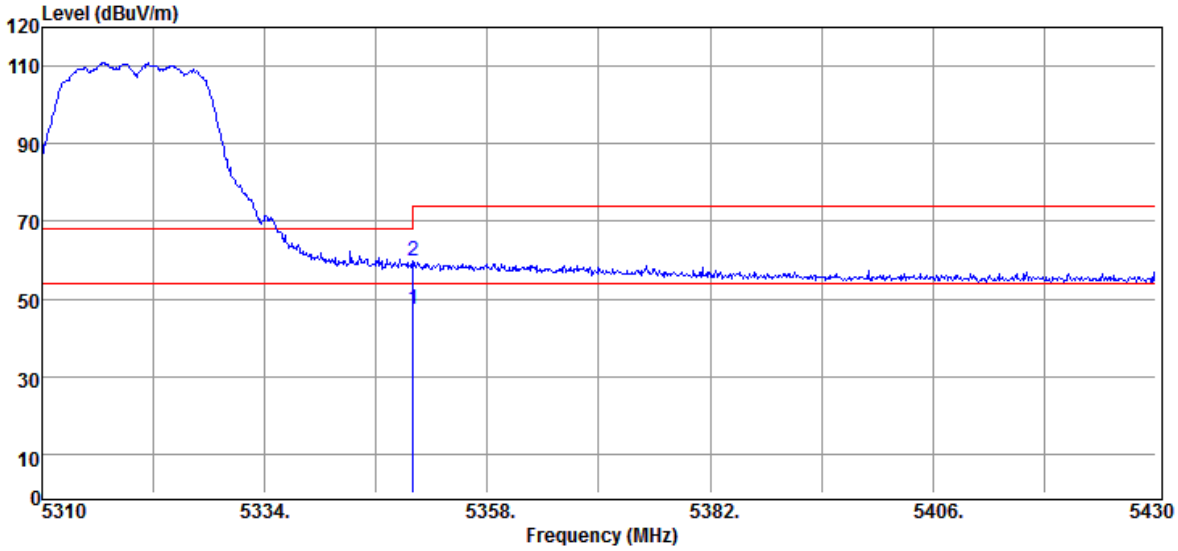
Operation Mode	:802.11a / Band2	Test Date	:2018-08-06
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Jerry



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	45.18	2.24	47.42	54.00	-6.58
5350.00	Peak	57.61	2.24	59.85	74.00	-14.15

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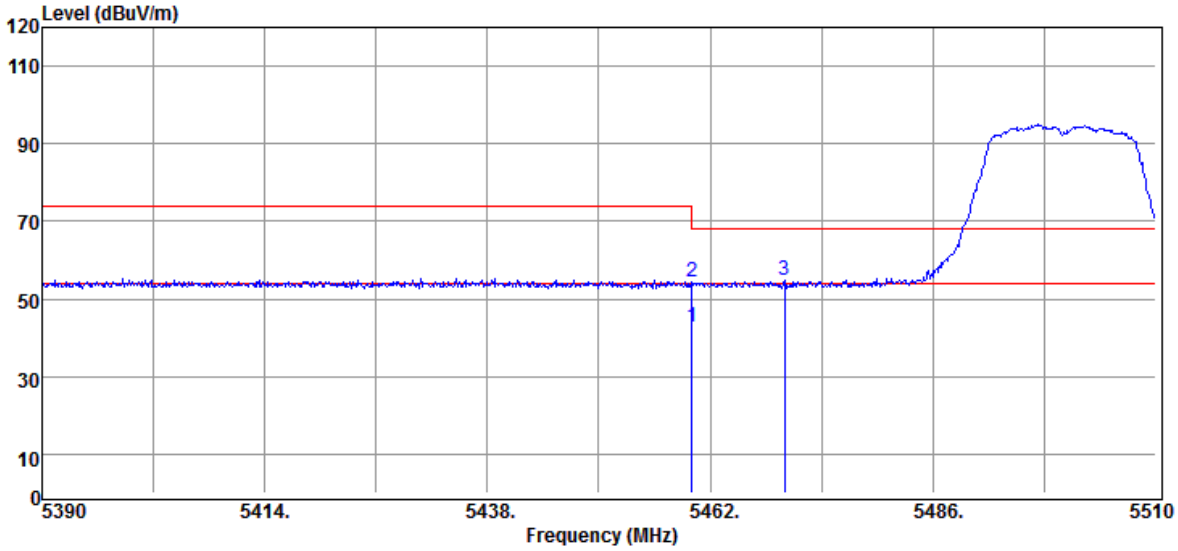
Operation Mode	:802.11a / Band3	Test Date	:2018-08-07
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	40.38	2.22	42.60	54.00	-11.40
5460.00	Peak	52.24	2.22	54.46	74.00	-19.54
5470.00	Peak	52.83	2.18	55.01	68.20	-13.19

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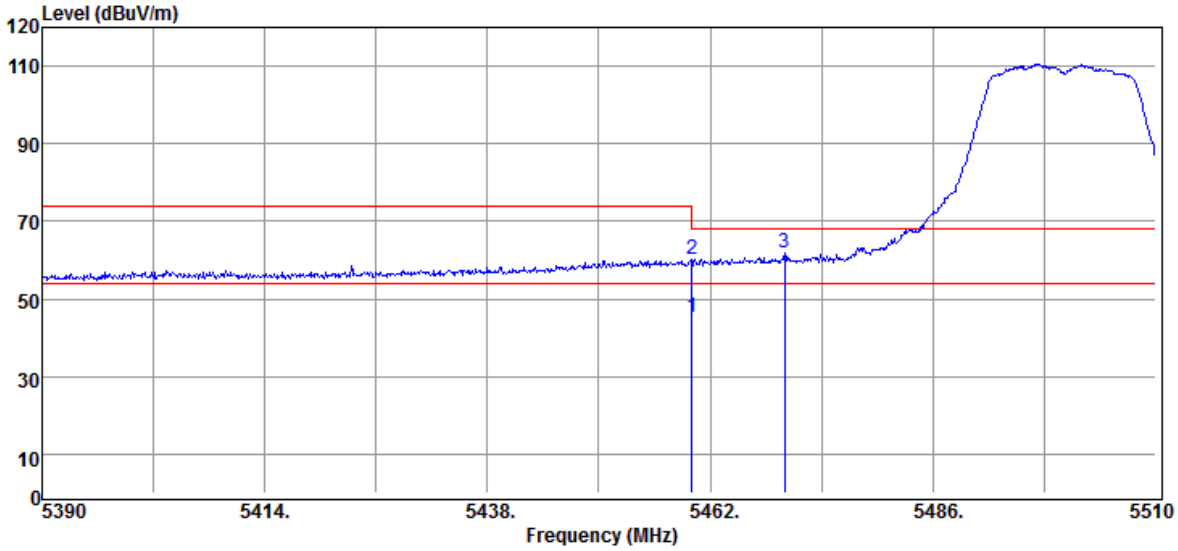
Operation Mode	:802.11a / Band3	Test Date	:2018-08-07
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	43.23	2.22	45.45	54.00	-8.55
5460.00	Peak	57.94	2.22	60.16	74.00	-13.84
5470.00	Peak	59.48	2.18	61.66	68.20	-6.54

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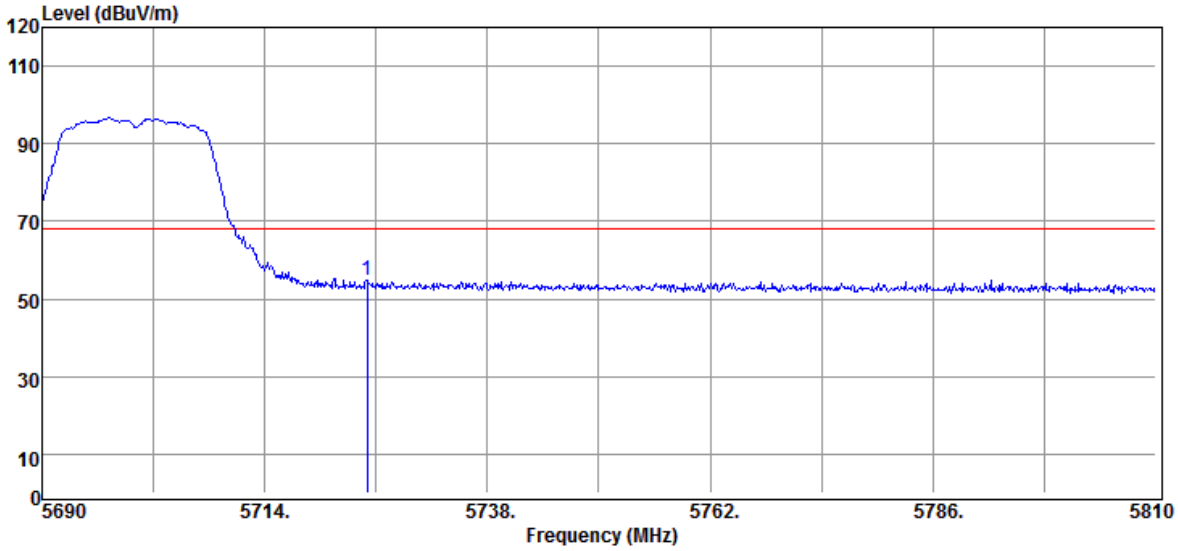
Operation Mode	:802.11a / Band3	Test Date	:2018-08-07
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	52.34	2.28	54.62	68.20	-13.58

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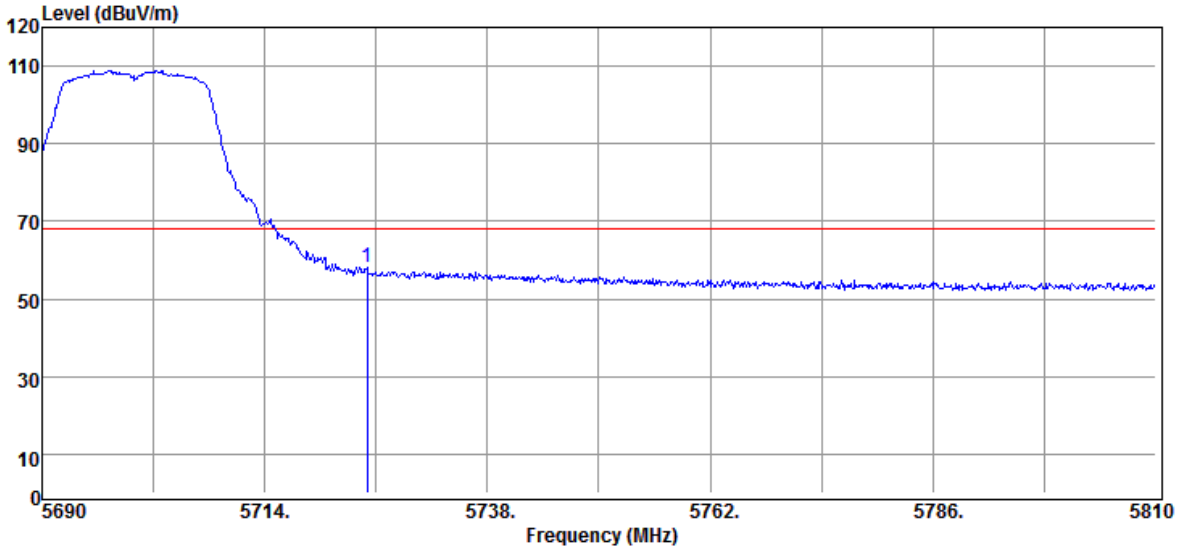
Operation Mode	:802.11a / Band3	Test Date	:2018-08-07
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Jerry



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	55.90	2.28	58.18	68.20	-10.02

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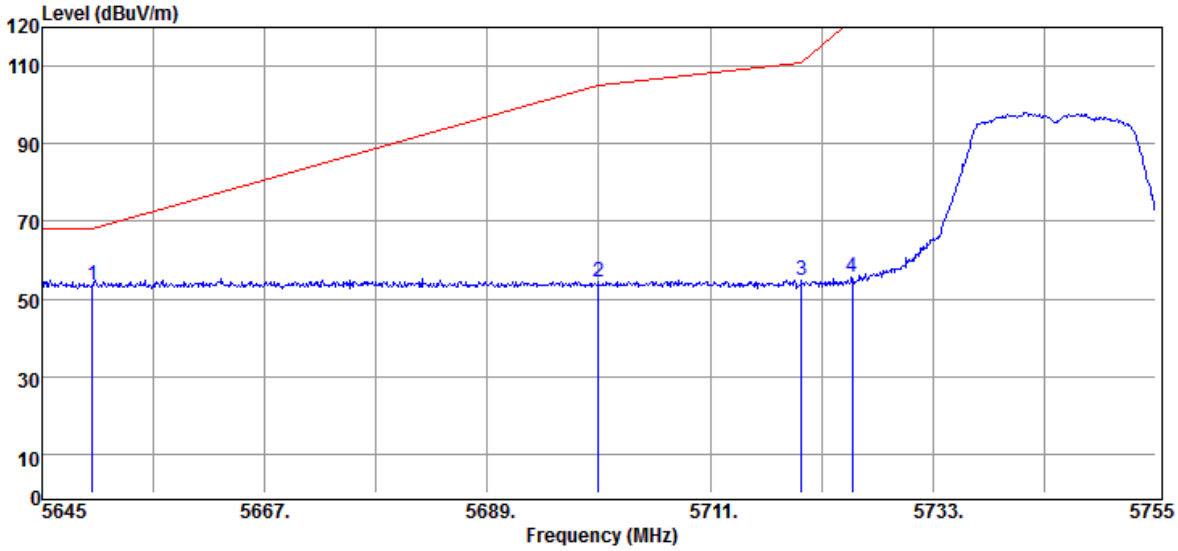
Operation Mode	:802.11a / Band4	Test Date	:2018-08-07
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	51.40	2.25	53.65	68.20	-14.55
5700.00	Peak	52.10	2.42	54.52	105.20	-50.68
5720.00	Peak	52.60	2.32	54.92	110.80	-55.88
5725.00	Peak	53.31	2.28	55.59	122.20	-66.61

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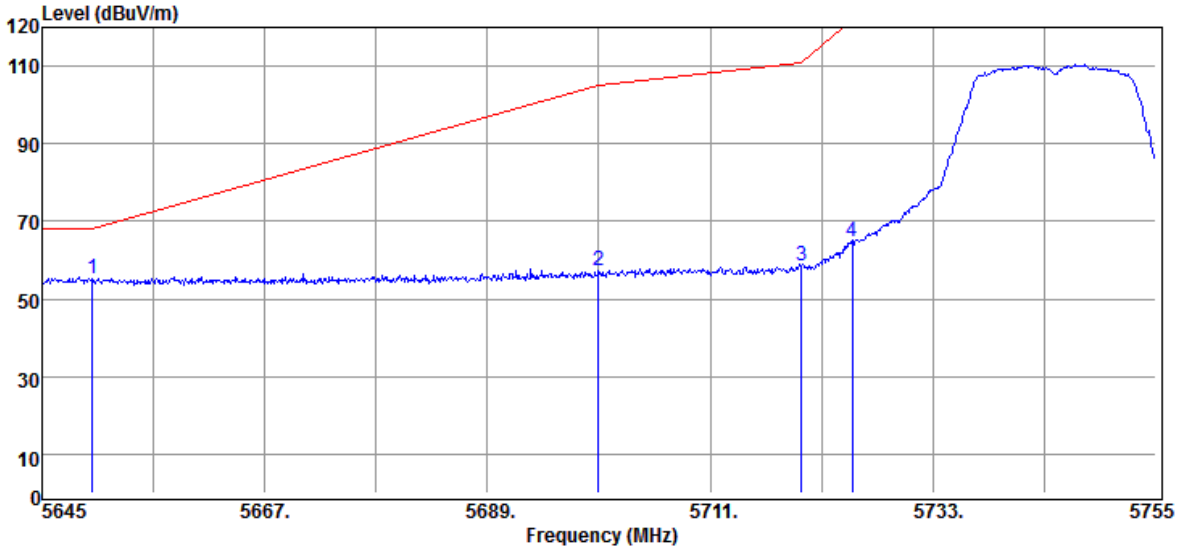
Operation Mode	:802.11a / Band4	Test Date	:2018-08-07
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	52.99	2.25	55.24	68.20	-12.96
5700.00	Peak	54.97	2.42	57.39	105.20	-47.81
5720.00	Peak	56.35	2.32	58.67	110.80	-52.13
5725.00	Peak	62.66	2.28	64.94	122.20	-57.26

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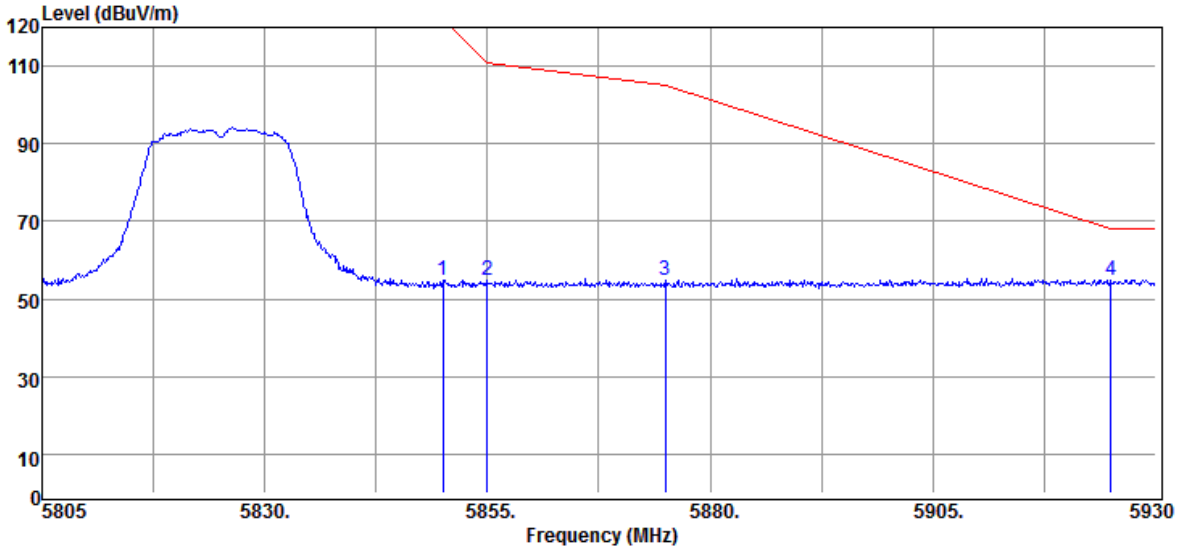
Operation Mode	:802.11a / Band4	Test Date	:2018-08-07
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	52.77	1.88	54.65	122.20	-67.55
5855.00	Peak	52.72	1.89	54.61	110.80	-56.19
5875.00	Peak	53.00	1.90	54.90	105.20	-50.30
5925.00	Peak	52.73	2.16	54.89	68.20	-13.31

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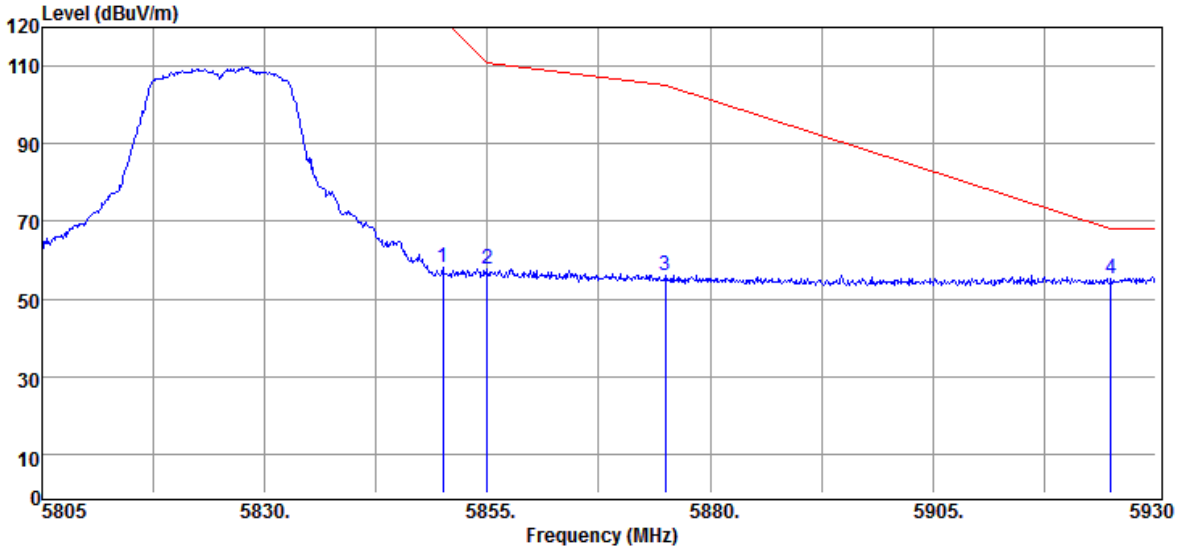
Operation Mode	:802.11a / Band4	Test Date	:2018-08-07
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	56.05	1.88	57.93	122.20	-64.27
5855.00	Peak	55.98	1.89	57.87	110.80	-52.93
5875.00	Peak	54.00	1.90	55.90	105.20	-49.30
5925.00	Peak	53.08	2.16	55.24	68.20	-12.96

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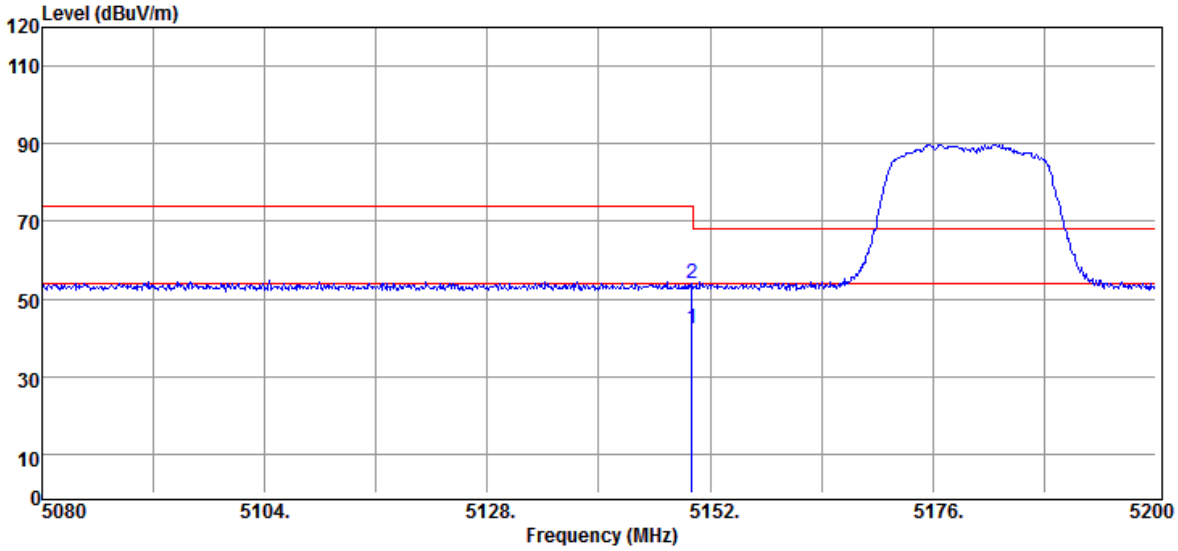
802.11n20 HT mode

Operation Mode	:802.11n20 / Band1	Test Date	:2018-08-06
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Jerry



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	40.56	1.84	42.40	54.00	-11.60
5150.00	Peak	52.07	1.84	53.91	74.00	-20.09

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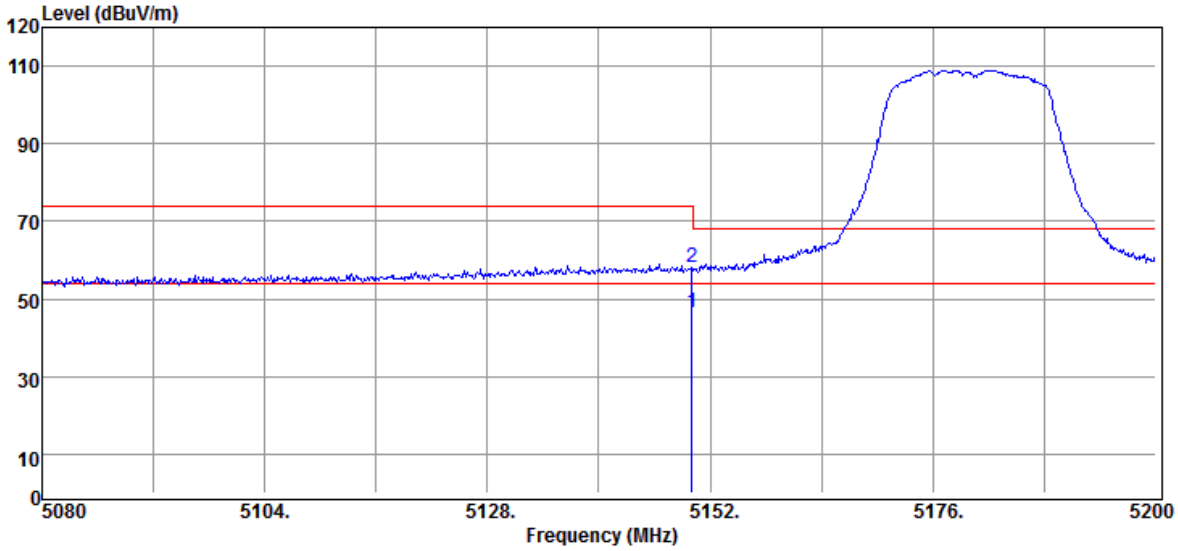
Operation Mode	:802.11n20 / Band1	Test Date	:2018-08-06
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Jerry



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	44.77	1.84	46.61	54.00	-7.39
5150.00	Peak	56.28	1.84	58.12	74.00	-15.88

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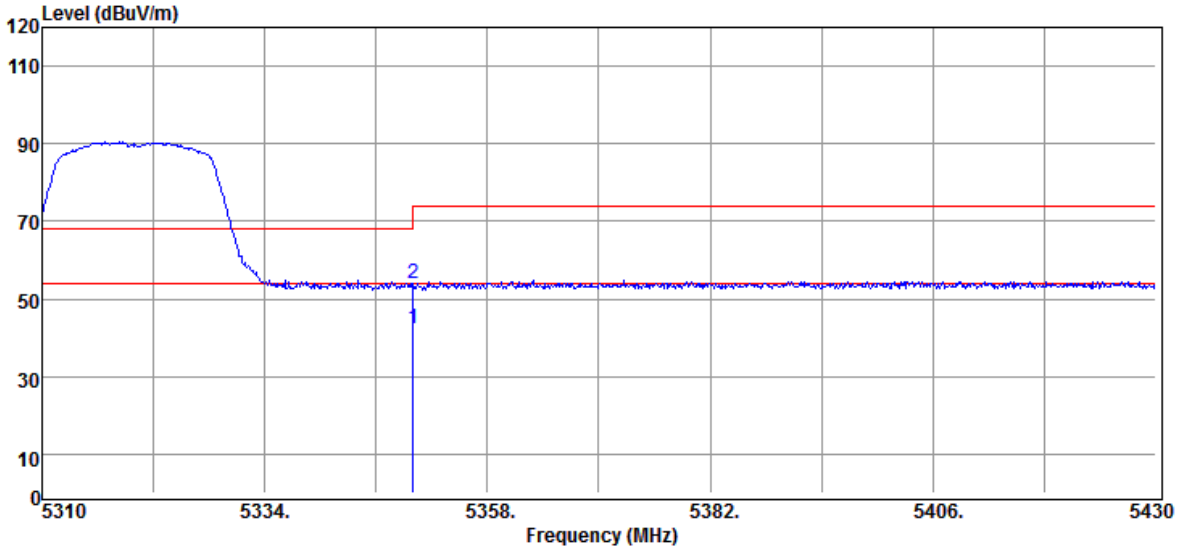
Operation Mode	:802.11n20 / Band2	Test Date	:2018-08-06
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5320 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	40.19	2.24	42.43	54.00	-11.57
5350.00	Peak	51.74	2.24	53.98	74.00	-20.02

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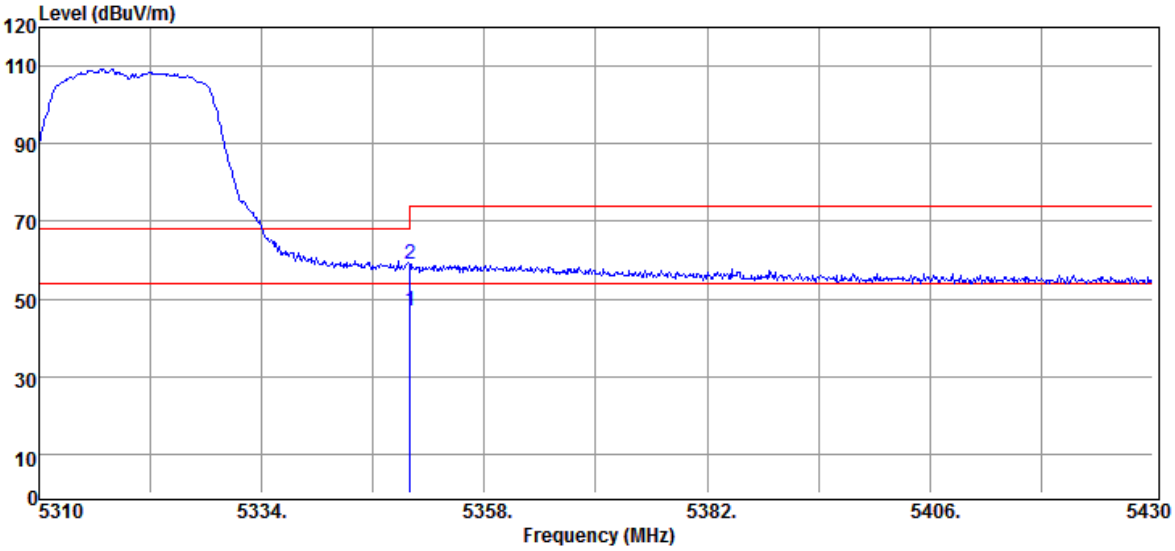
Operation Mode	:802.11n20 / Band2	Test Date	:2018-08-06
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5320 MHz	Engineer	:Jerry



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	44.83	2.24	47.07	54.00	-6.93
5350.00	Peak	56.72	2.24	58.96	74.00	-15.04

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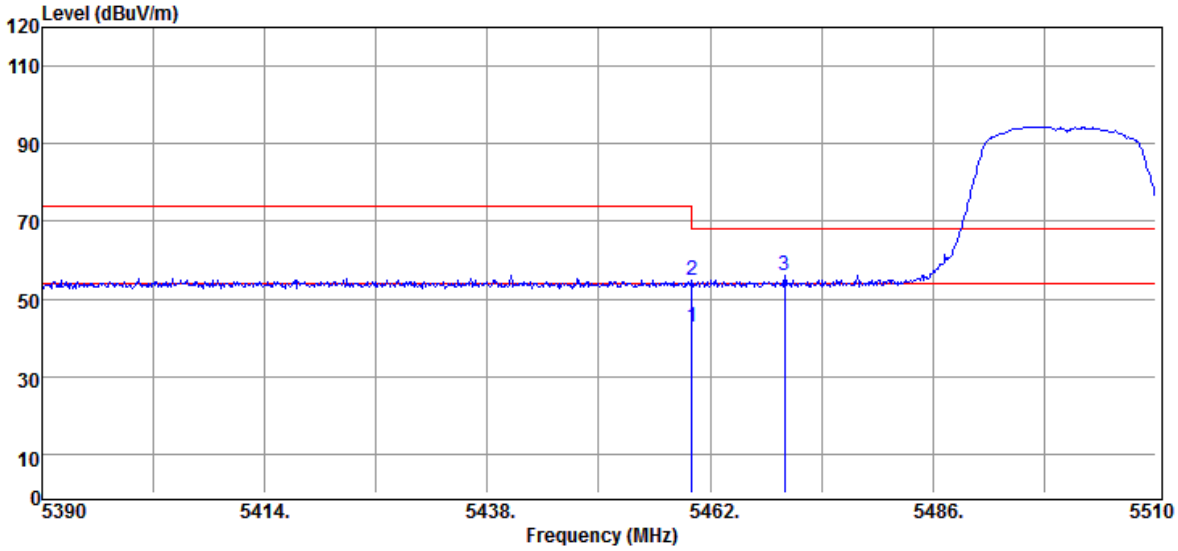
Operation Mode	:802.11n20 / Band3	Test Date	:2018-08-07
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	40.58	2.22	42.80	54.00	-11.20
5460.00	Peak	52.52	2.22	54.74	74.00	-19.26
5470.00	Peak	53.94	2.18	56.12	68.20	-12.08

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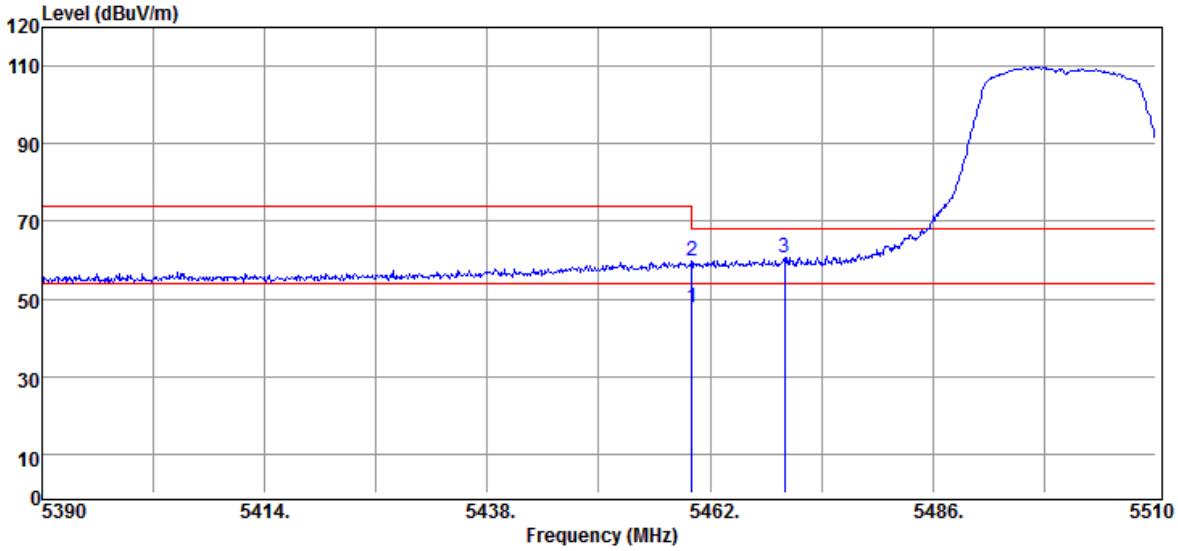
Operation Mode	:802.11n20 / Band3	Test Date	:2018-08-07
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5500 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	45.55	2.22	47.77	54.00	-6.23
5460.00	Peak	57.53	2.22	59.75	74.00	-14.25
5470.00	Peak	58.50	2.18	60.68	68.20	-7.52

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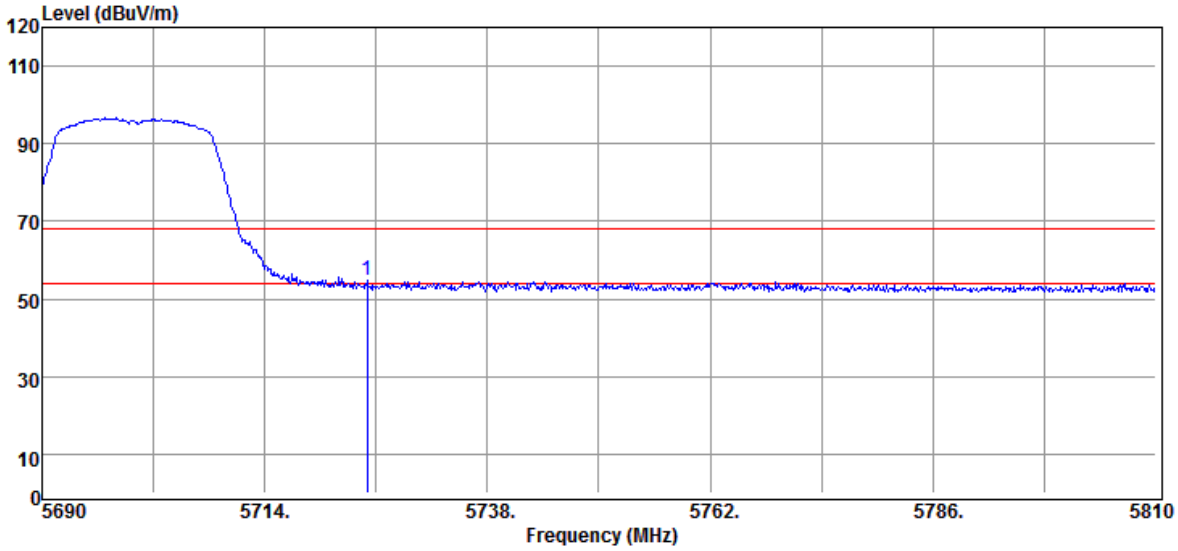
Operation Mode	:802.11n20 / Band3	Test Date	:2018-08-07
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	52.37	2.28	54.65	68.20	-13.55

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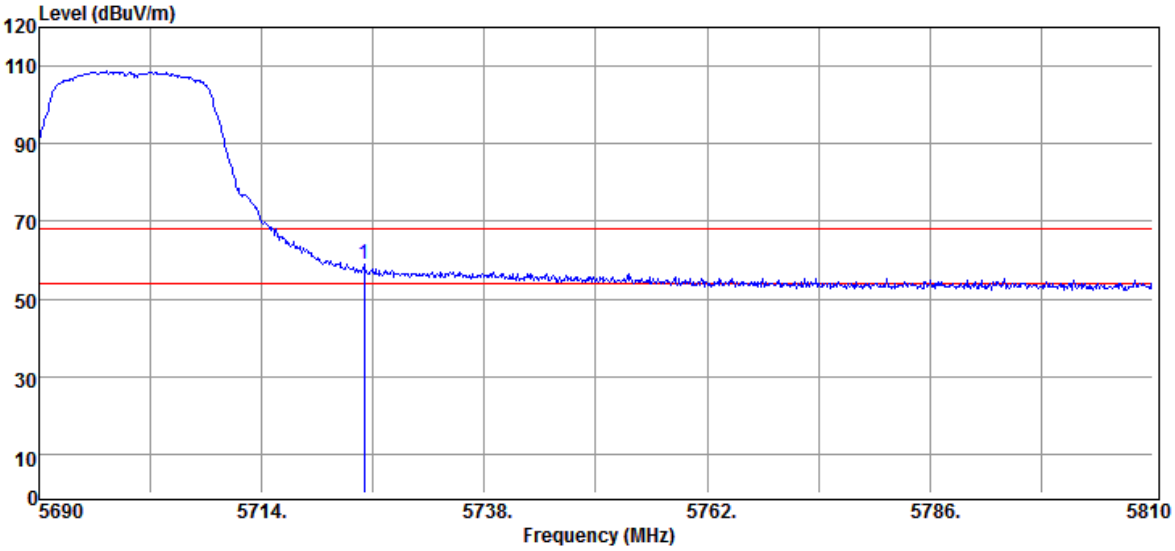
Operation Mode	:802.11n20 / Band3	Test Date	:2018-08-07
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5700 MHz	Engineer	:Jerry



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	56.52	2.28	58.80	68.20	-9.40

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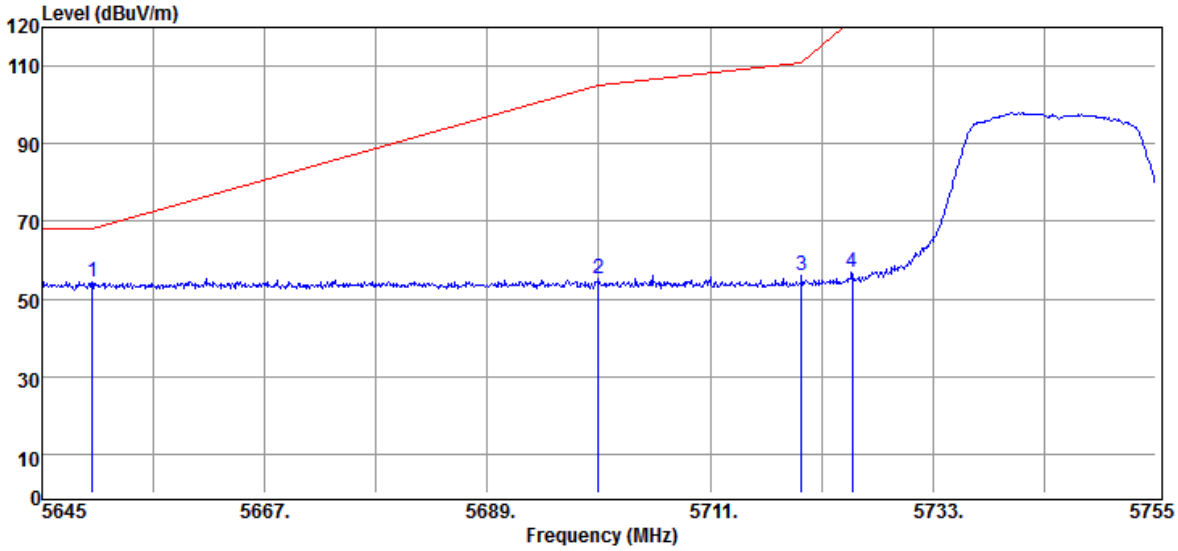
Operation Mode	:802.11n20 / Band4	Test Date	:2018-08-07
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5745 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	52.27	2.25	54.52	68.20	-13.68
5700.00	Peak	52.73	2.42	55.15	105.20	-50.05
5720.00	Peak	53.54	2.32	55.86	110.80	-54.94
5725.00	Peak	54.54	2.28	56.82	122.20	-65.38

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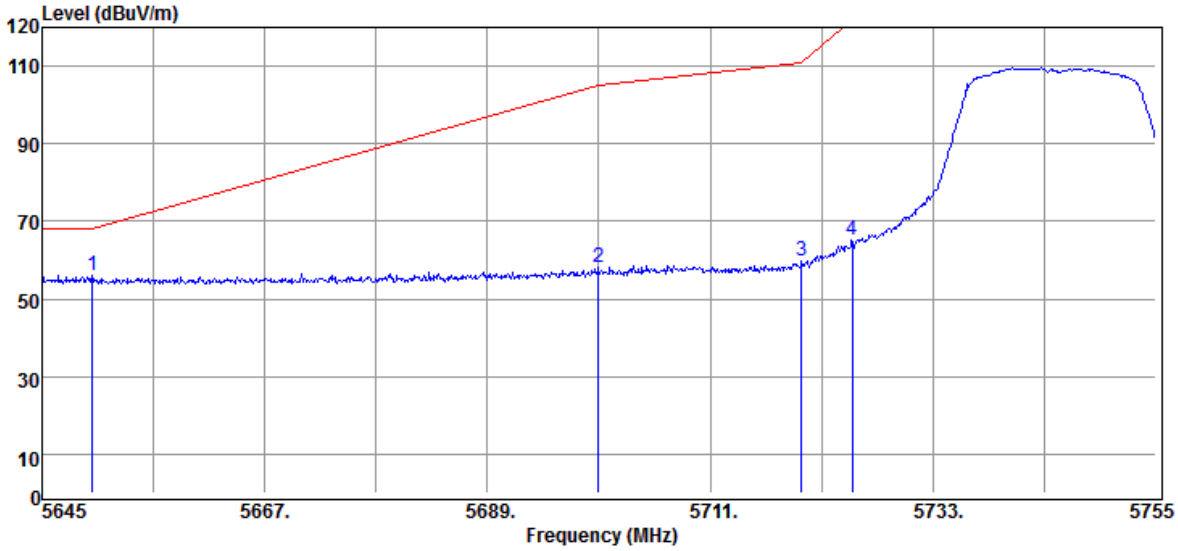
Operation Mode	:802.11n20 / Band4	Test Date	:2018-08-07
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5745 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	53.71	2.25	55.96	68.20	-12.24
5700.00	Peak	55.88	2.42	58.30	105.20	-46.90
5720.00	Peak	57.37	2.32	59.69	110.80	-51.11
5725.00	Peak	62.81	2.28	65.09	122.20	-57.11

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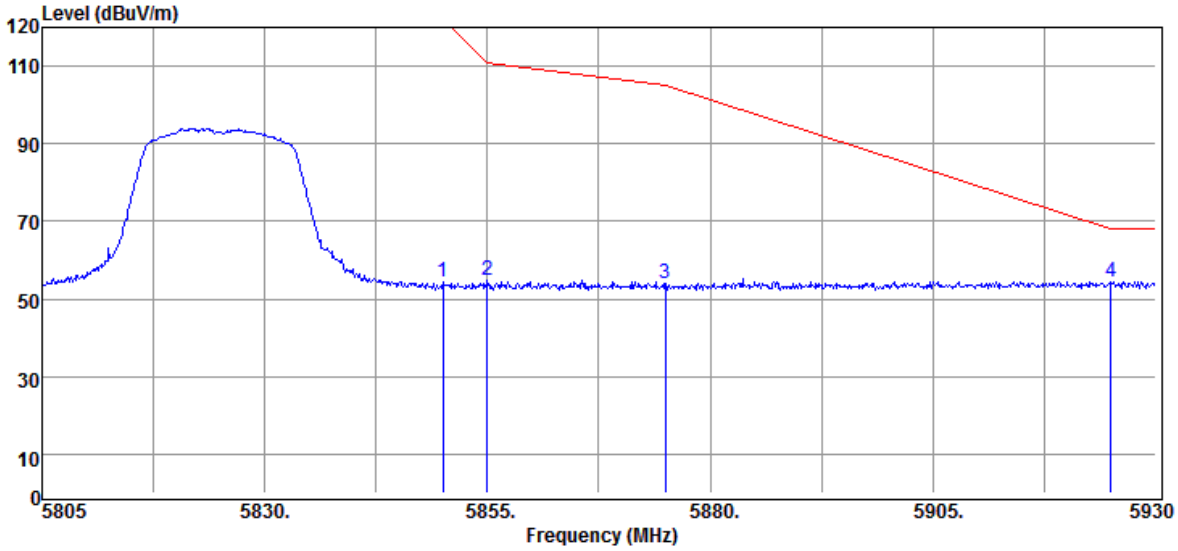
Operation Mode	:802.11n20 / Band4	Test Date	:2018-08-07
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5825 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	52.47	1.88	54.35	122.20	-67.85
5855.00	Peak	53.01	1.89	54.90	110.80	-55.90
5875.00	Peak	52.22	1.90	54.12	105.20	-51.08
5925.00	Peak	52.07	2.16	54.23	68.20	-13.97

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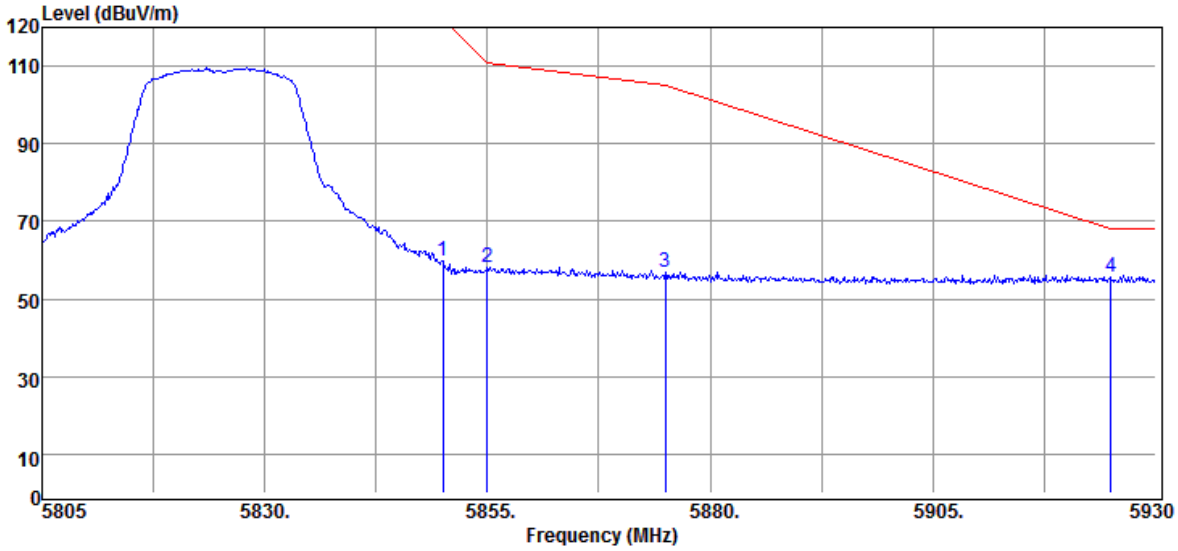
Operation Mode	:802.11n20 / Band4	Test Date	:2018-08-07
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5825 MHz	Engineer	:Jerry



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	58.03	1.88	59.91	122.20	-62.29
5855.00	Peak	56.27	1.89	58.16	110.80	-52.64
5875.00	Peak	55.12	1.90	57.02	105.20	-48.18
5925.00	Peak	53.45	2.16	55.61	68.20	-12.59

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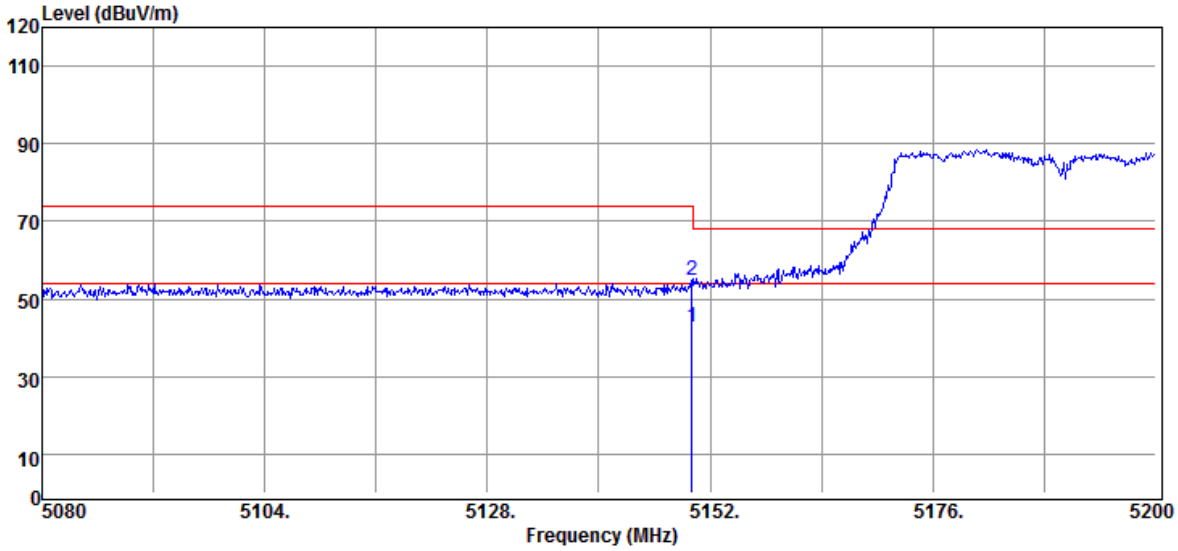
802.11n40 HT mode

Operation Mode	:802.11n40 / Band1	Test Date	:2018-08-06
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5190 MHz	Engineer	:Jerry



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	40.98	1.84	42.82	54.00	-11.18
5150.00	Peak	52.81	1.84	54.65	74.00	-19.35

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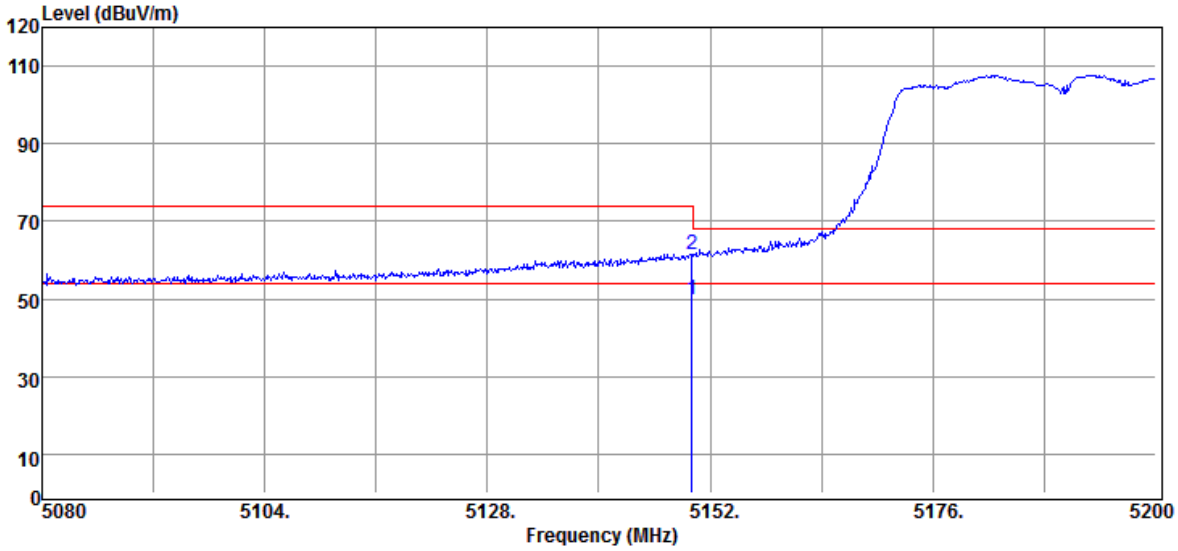
Operation Mode	:802.11n40 / Band1	Test Date	:2018-08-06
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5190 MHz	Engineer	:Jerry



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	47.91	1.84	49.75	54.00	-4.25
5150.00	Peak	59.80	1.84	61.64	74.00	-12.36

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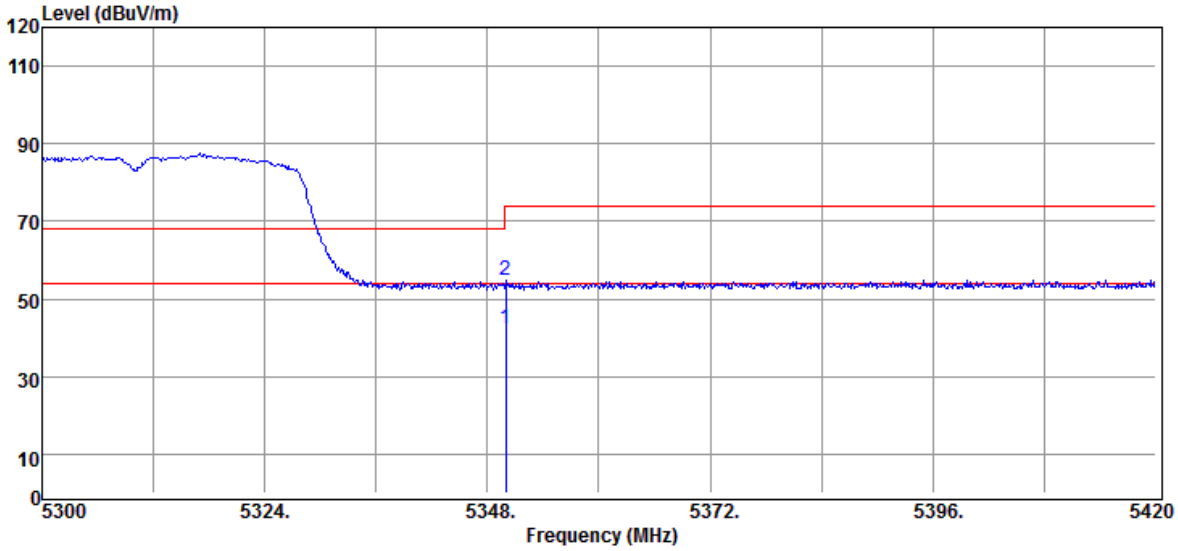
Operation Mode	:802.11n40 / Band2	Test Date	:2018-08-06
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5310 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	40.20	2.24	42.44	54.00	-11.56
5350.00	Peak	52.54	2.24	54.78	74.00	-19.22

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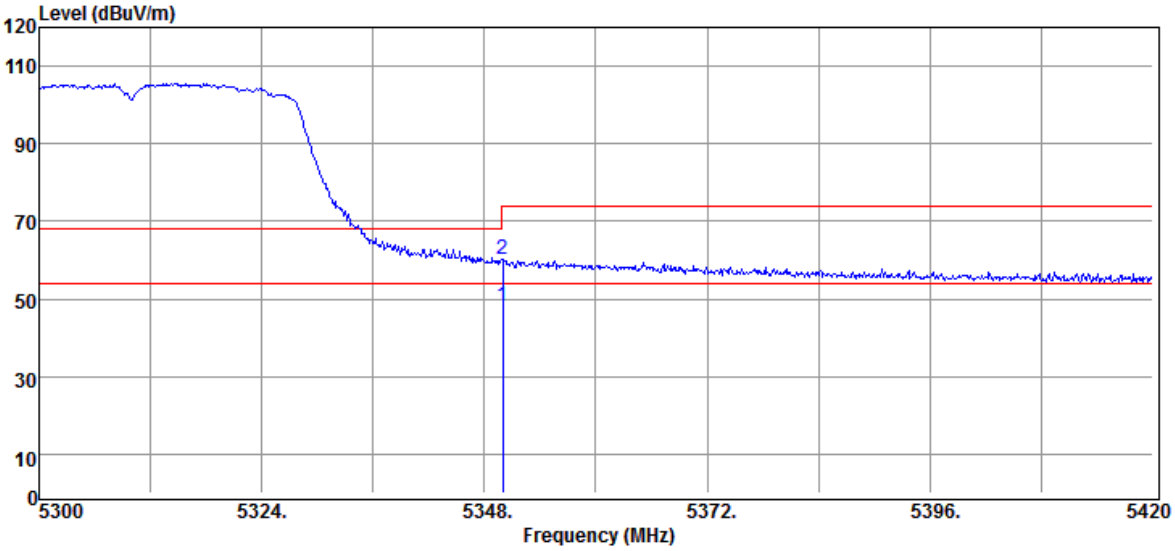
Operation Mode	:802.11n40 / Band2	Test Date	:2018-08-06
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5310 MHz	Engineer	:Jerry



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	45.99	2.24	48.23	54.00	-5.77
5350.00	Peak	57.84	2.24	60.08	74.00	-13.92

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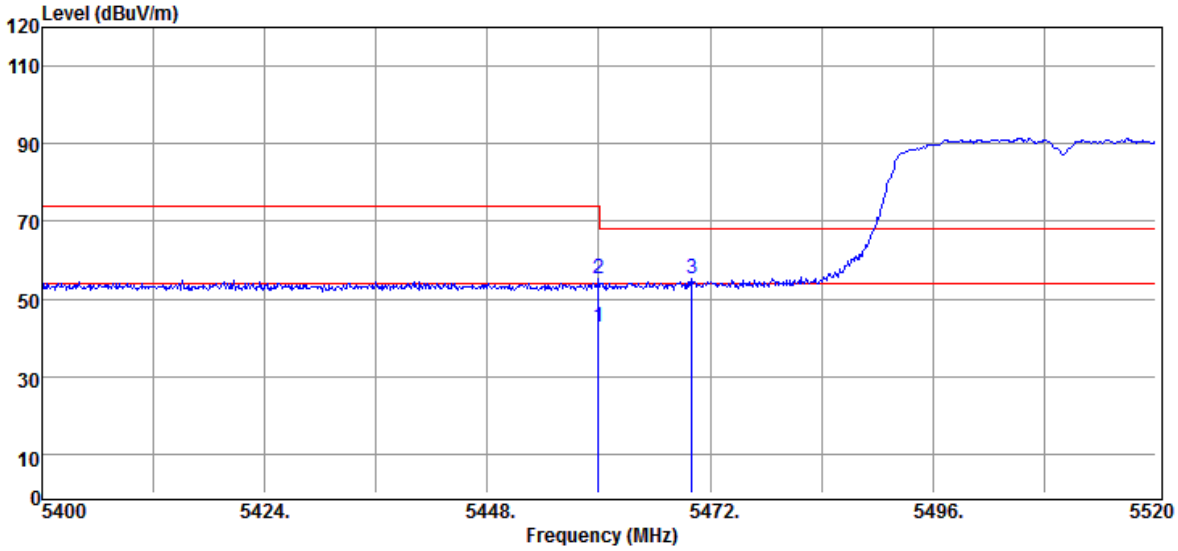
Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-07
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5510 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	40.54	2.22	42.76	54.00	-11.24
5460.00	Peak	53.17	2.22	55.39	74.00	-18.61
5470.00	Peak	53.06	2.18	55.24	68.20	-12.96

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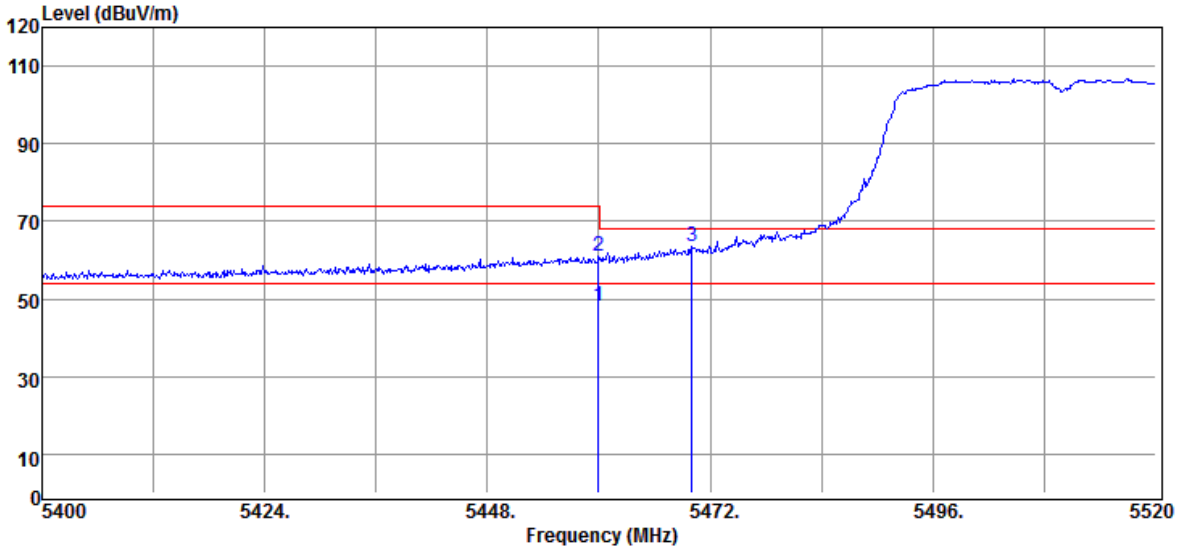
Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-07
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5510 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	46.02	2.22	48.24	54.00	-5.76
5460.00	Peak	58.73	2.22	60.95	74.00	-13.05
5470.00	Peak	61.52	2.18	63.70	68.20	-4.50

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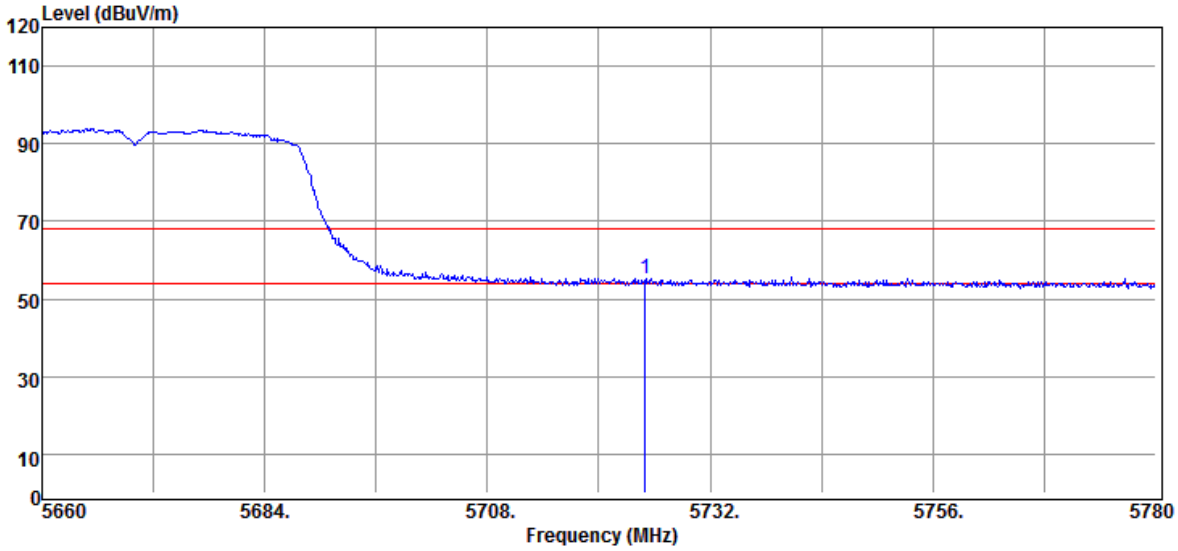
Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-07
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5670 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	Peak	52.82	2.28	55.10	68.20	-13.10

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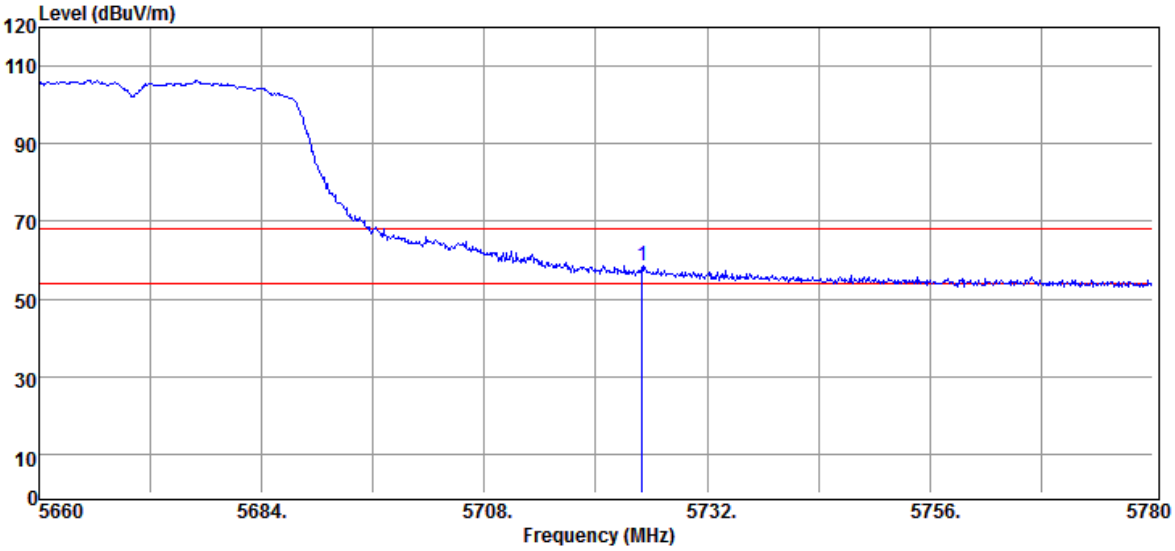
Operation Mode	:802.11n40 / Band3	Test Date	:2018-08-07
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5670 MHz	Engineer	:Jerry



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	56.21	2.28	58.49	68.20	-9.71

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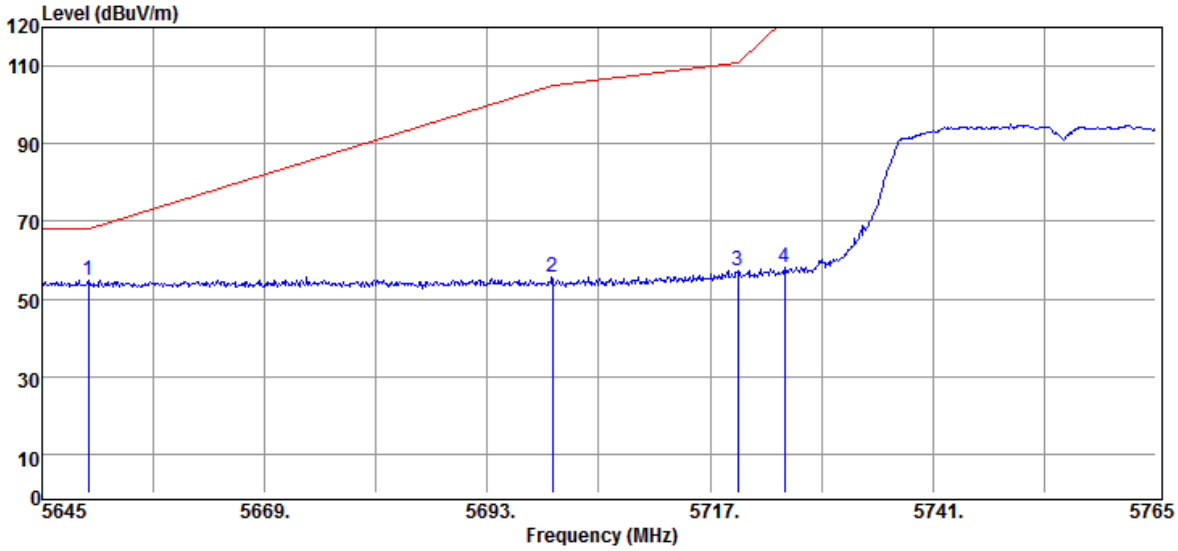
Operation Mode	:802.11n40 / Band4	Test Date	:2018-08-07
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5755 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	52.40	2.25	54.65	68.20	-13.55
5700.00	Peak	53.23	2.42	55.65	105.20	-49.55
5720.00	Peak	54.95	2.32	57.27	110.80	-53.53
5725.00	Peak	55.87	2.28	58.15	122.20	-64.05

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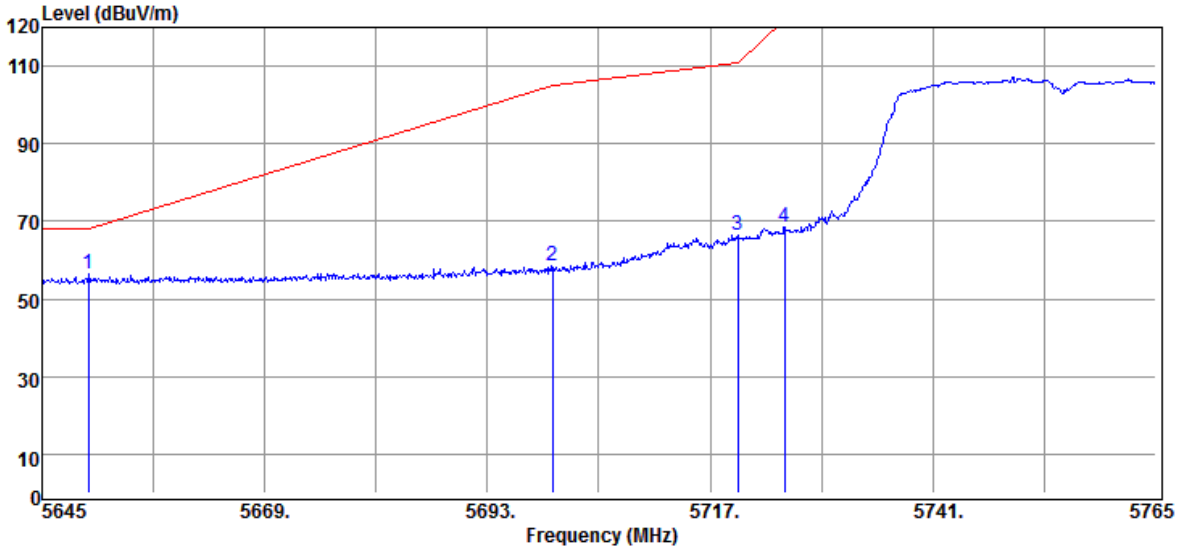
Operation Mode	:802.11n40 / Band4	Test Date	:2018-08-07
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5755 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	54.29	2.25	56.54	68.20	-11.66
5700.00	Peak	56.19	2.42	58.61	105.20	-46.59
5720.00	Peak	64.05	2.32	66.37	110.80	-44.43
5725.00	Peak	66.37	2.28	68.65	122.20	-53.55

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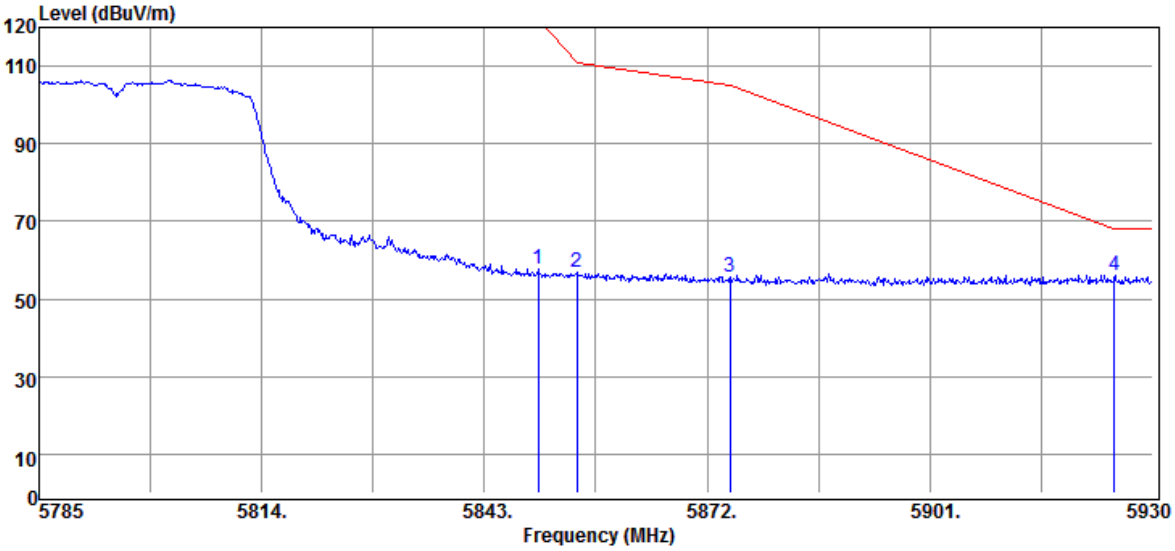
Operation Mode	:802.11n40 / Band4	Test Date	:2018-08-07
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5795 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	55.75	1.88	57.63	122.20	-64.57
5855.00	Peak	55.05	1.89	56.94	110.80	-53.86
5875.00	Peak	53.77	1.90	55.67	105.20	-49.53
5925.00	Peak	53.78	2.16	55.94	68.20	-12.26

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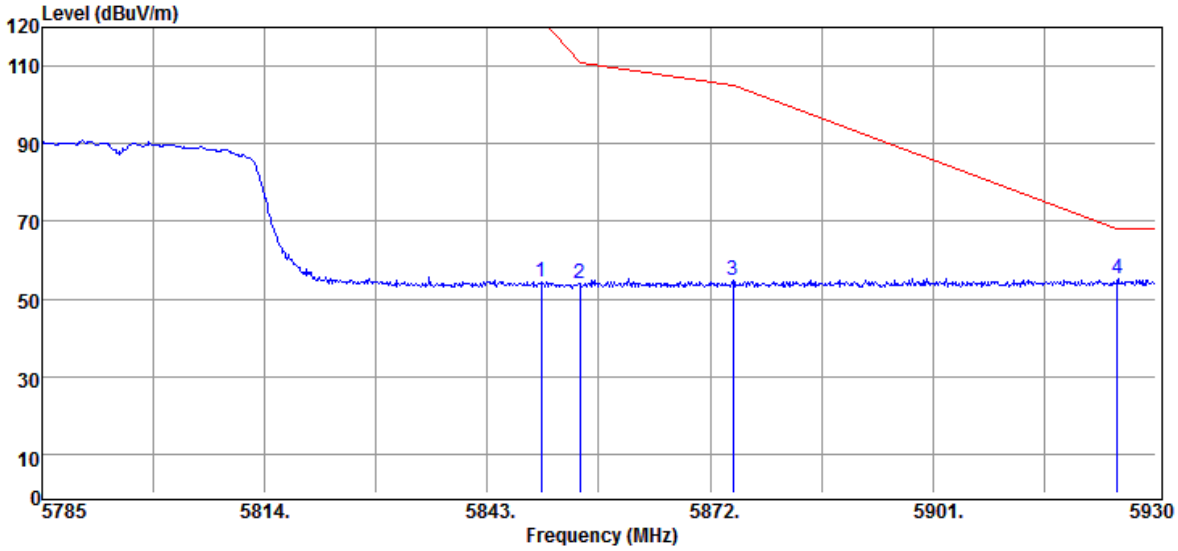
Operation Mode	:802.11n40 / Band4	Test Date	:2018-08-07
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5795 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	52.49	1.88	54.37	122.20	-67.83
5855.00	Peak	52.23	1.89	54.12	110.80	-56.68
5875.00	Peak	53.03	1.90	54.93	105.20	-50.27
5925.00	Peak	53.14	2.16	55.30	68.20	-12.90

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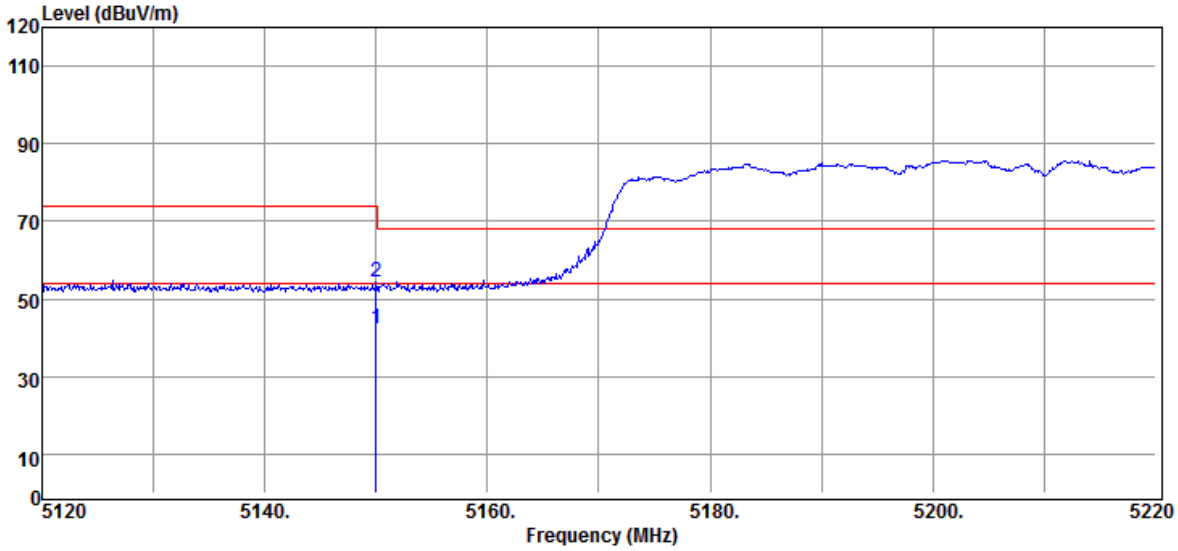
802.11ac80 VHT mode

Operation Mode	:802.11ac80 / Band1	Test Date	:2018-08-06
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5210 MHz	Engineer	:Jerry



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	40.53	1.84	42.37	54.00	-11.63
5150.00	Peak	52.52	1.84	54.36	74.00	-19.64

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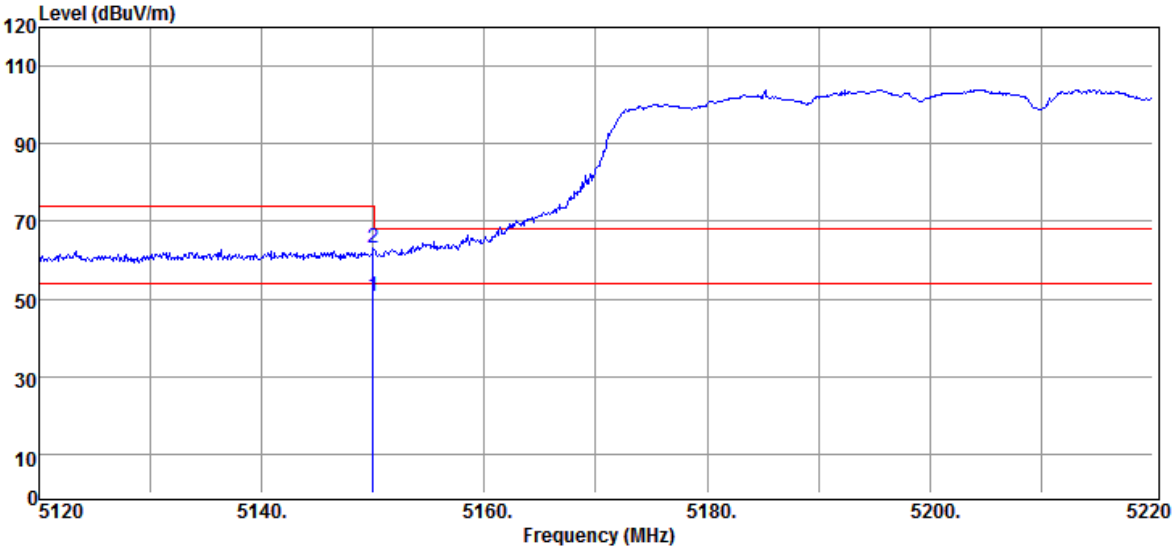
Operation Mode	:802.11ac80 / Band1	Test Date	:2018-08-06
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5210 MHz	Engineer	:Jerry



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	48.97	1.84	50.81	54.00	-3.19
5150.00	Peak	61.34	1.84	63.18	74.00	-10.82

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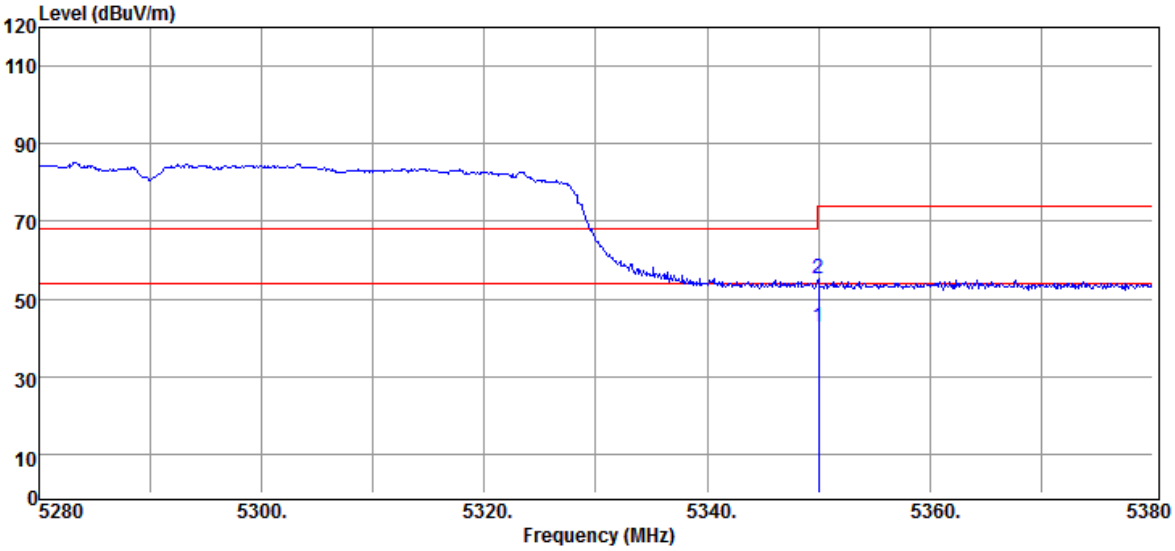
Operation Mode	:802.11n80 / Band2	Test Date	:2018-08-06
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5290 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	Average	40.53	2.24	42.77	54.00	-11.23
5350.00	Peak	52.82	2.24	55.06	74.00	-18.94

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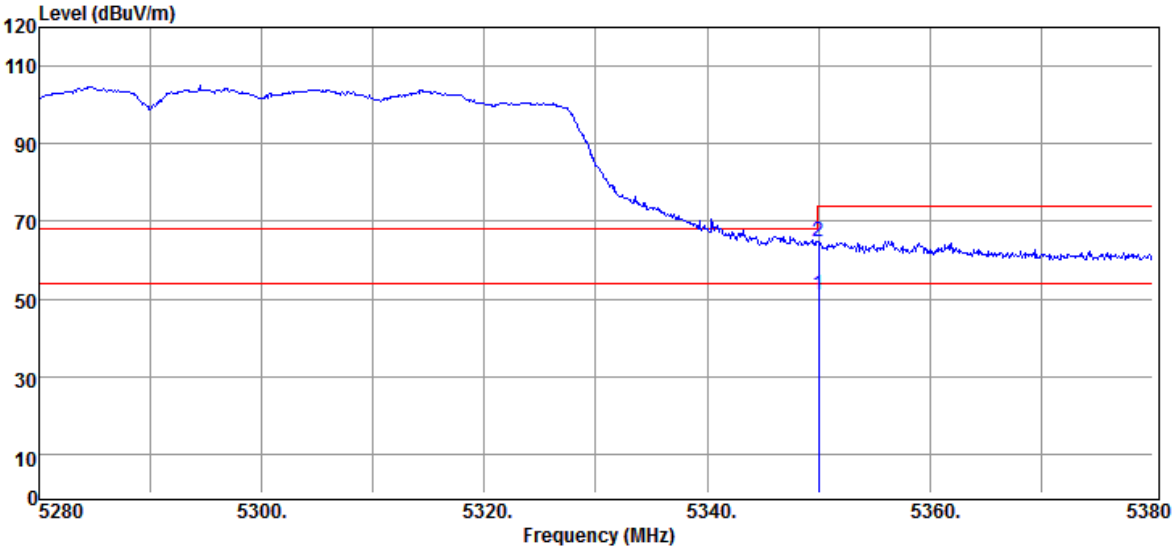
Operation Mode	:802.11n80 / Band2	Test Date	:2018-08-06
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5290 MHz	Engineer	:Jerry



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	48.69	2.24	50.93	54.00	-3.07
5350.00	Peak	62.45	2.24	64.69	74.00	-9.31

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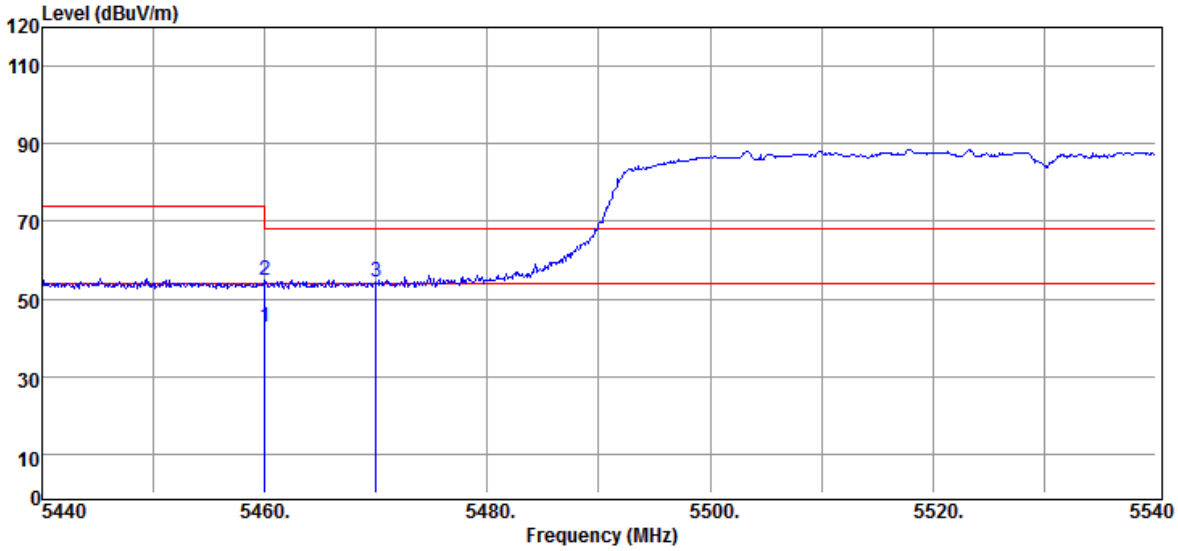
Operation Mode	:802.11n80 / Band3	Test Date	:2018-08-07
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5530 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	40.63	2.22	42.85	54.00	-11.15
5460.00	Peak	52.59	2.22	54.81	74.00	-19.19
5470.00	Peak	52.38	2.18	54.56	68.20	-13.64

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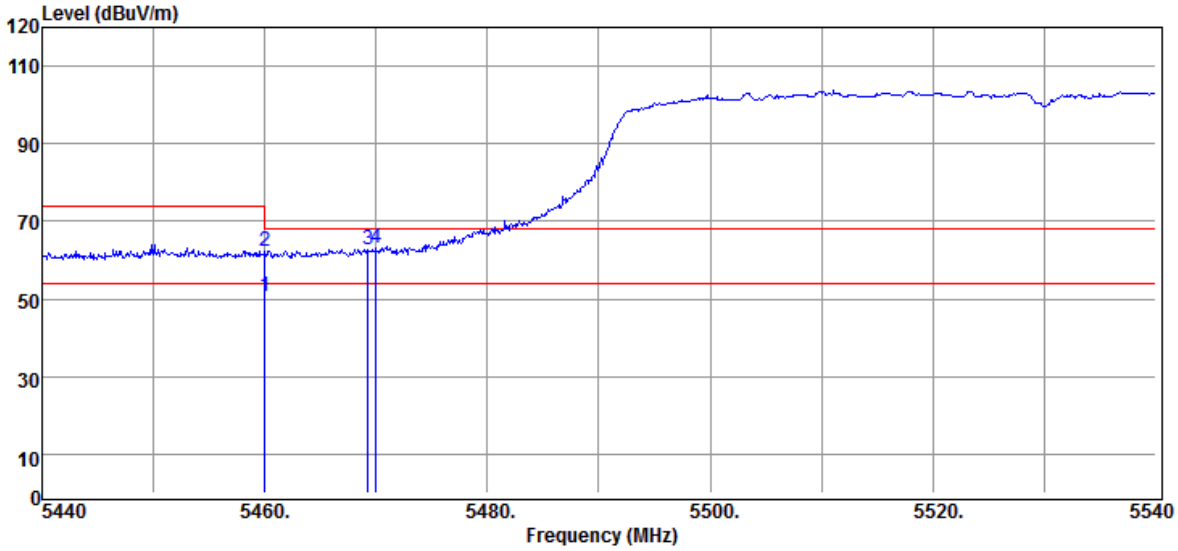
Operation Mode	:802.11n80 / Band3	Test Date	:2018-08-07
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5530 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	Average	48.60	2.22	50.82	54.00	-3.18
5460.00	Peak	60.10	2.22	62.32	74.00	-11.68
5469.30	Peak	60.66	2.18	62.84	68.20	-5.36
5470.00	Peak	60.74	2.18	62.92	68.20	-5.28

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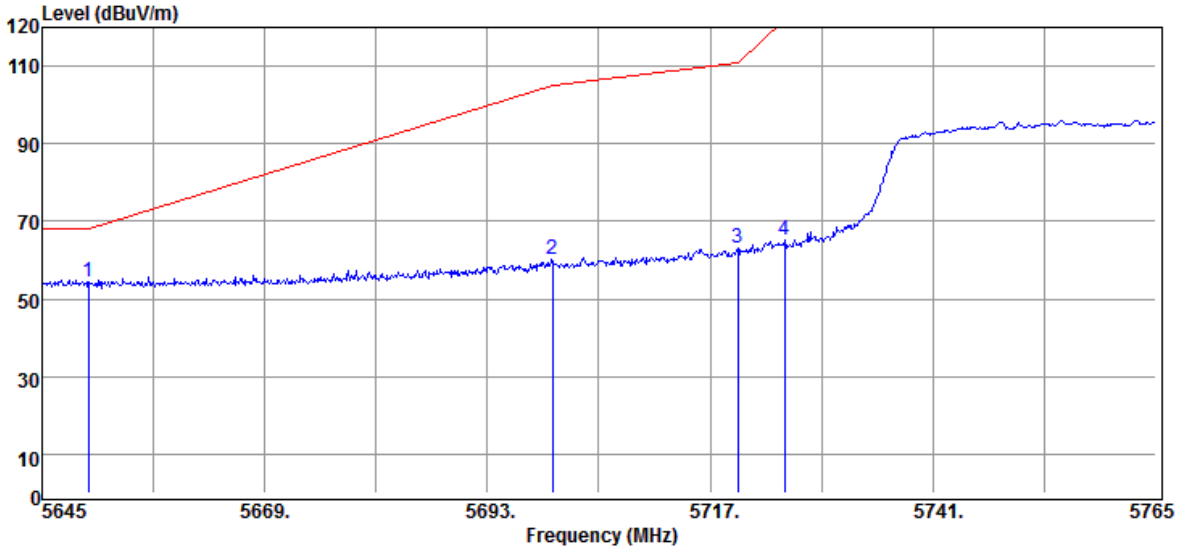
Operation Mode	:802.11ac80 / Band4	Test Date	:2018-08-07
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5775 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	52.18	2.25	54.43	68.20	-13.77
5700.00	Peak	57.78	2.42	60.20	105.20	-45.00
5720.00	Peak	60.79	2.32	63.11	110.80	-47.69
5725.00	Peak	62.92	2.28	65.20	122.20	-57.00

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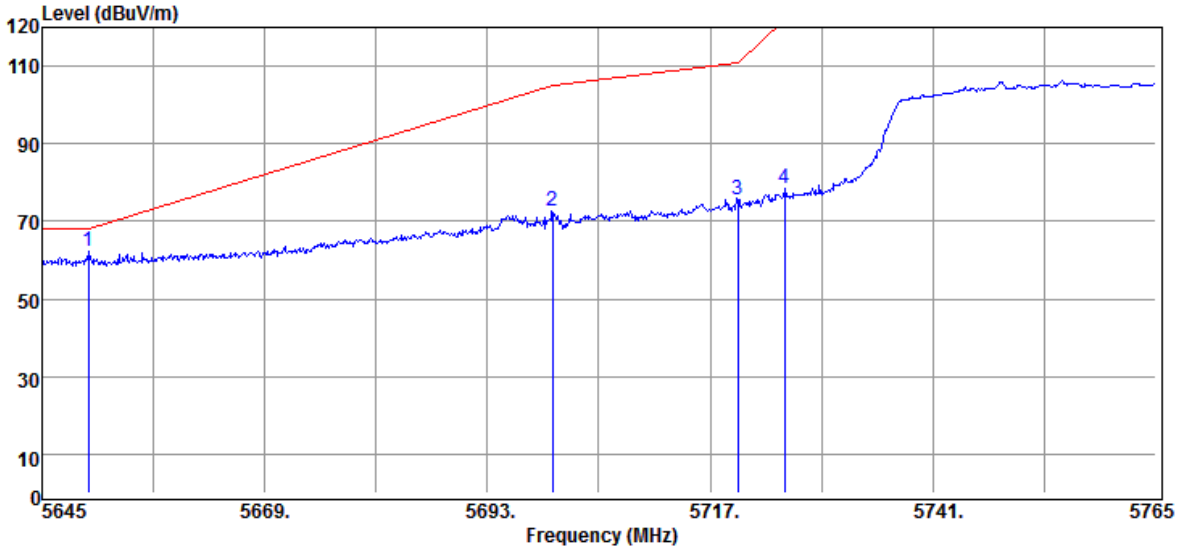
Operation Mode	:802.11ac80 / Band4	Test Date	:2018-08-07
Test Mode	:BE CH Low	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5775 MHz	Engineer	:Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	59.92	2.25	62.17	68.20	-6.03
5700.00	Peak	70.16	2.42	72.58	105.20	-32.62
5720.00	Peak	73.18	2.32	75.50	110.80	-35.30
5725.00	Peak	76.04	2.28	78.32	122.20	-43.88

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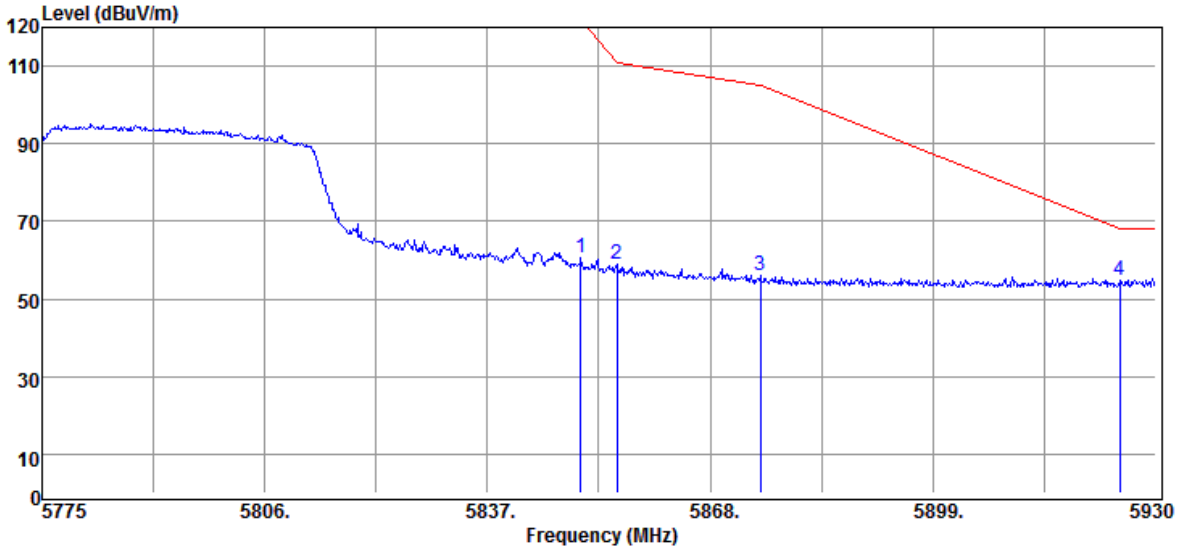
Operation Mode	:802.11ac80 / Band4	Test Date	:2018-08-07
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:5775 MHz	Engineer	:Jerry



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	58.64	1.88	60.52	122.20	-61.68
5855.00	Peak	57.03	1.89	58.92	110.80	-51.88
5875.00	Peak	54.14	1.90	56.04	105.20	-49.16
5925.00	Peak	52.46	2.16	54.62	68.20	-13.58

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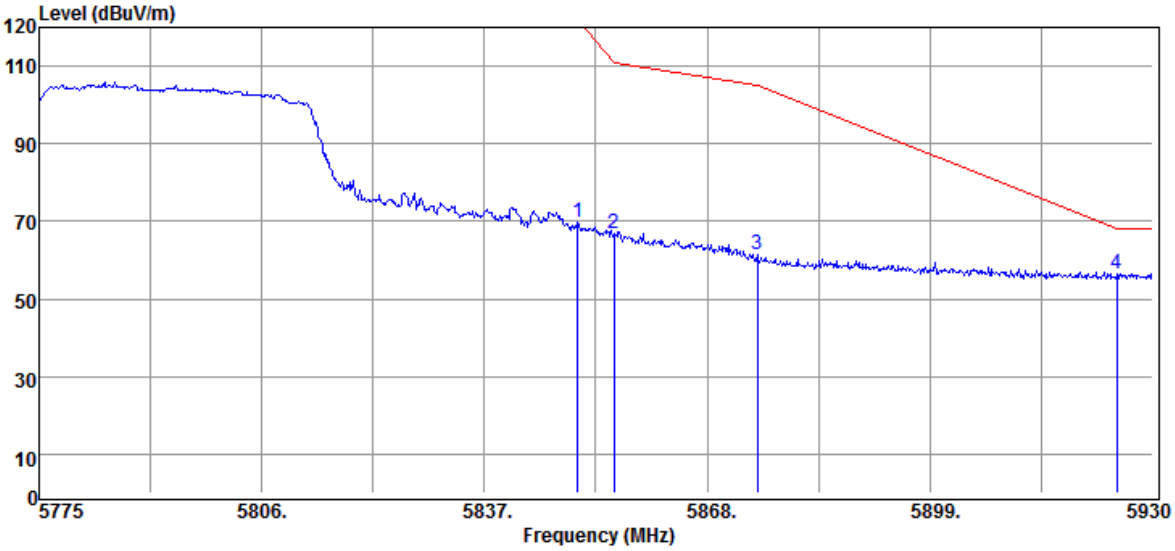
Operation Mode	:802.11ac80 / Band4	Test Date	:2018-08-07
Test Mode	:BE CH High	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5775 MHz	Engineer	:Jerry



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	67.68	1.88	69.56	122.20	-52.64
5855.00	Peak	65.13	1.89	67.02	110.80	-43.78
5875.00	Peak	59.42	1.90	61.32	105.20	-43.88
5925.00	Peak	54.49	2.16	56.65	68.20	-11.55

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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

12.2 Result

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

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13 FREQUENCY STABILITY

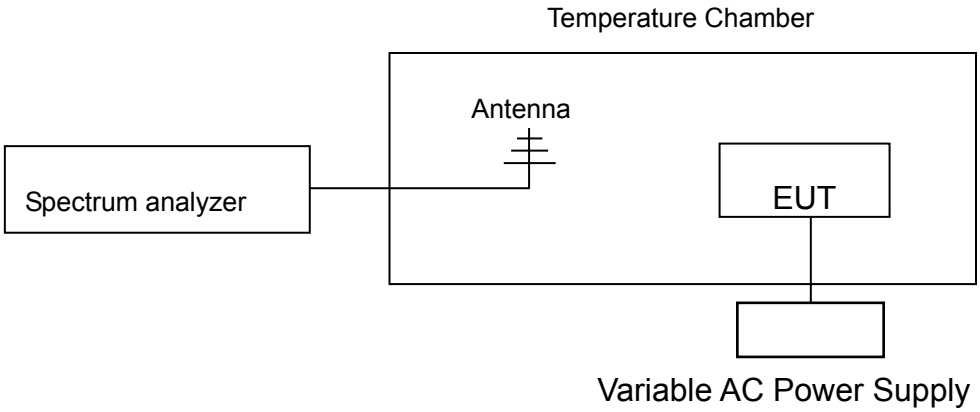
13.1 Standard Applicable

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

13.2 Measurement Procedure

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

13.3 Test SET-UP



13.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
DC Block	PASTERNACK	PE8210	RF29	2017/12/26	2018/12/25
Notebook	Lenovo	L420	S0011721	N/A	N/A

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13.5 Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2018.09.10
Temperature	:23.7 ℃	Test By	Hone
Humidity	:58 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
20 ℃	8.8V	36	5180	5,179.98408	0.00000307
		44	5220	5,219.95163	0.00000927
		48	5240	5,239.92396	0.00001451
		52	5260	5,259.97919	0.00000396
		60	5300	5,299.97553	0.00000462
		64	5320	5,319.93312	0.00001257
		100	5500	5,499.99082	0.00000167
		116	5580	5,579.99464	0.00000096
		140	5700	5,699.93826	0.00001083
		144	5720	5,719.94303	0.00000996
		149	5745	5,744.95746	0.00000740
		157	5785	5,784.98796	0.00000208
		165	5825	5,824.97150	0.00000489
	6V	36	5180	5,179.95703	0.00000830
		44	5220	5,219.94369	0.00001079
		48	5240	5,239.98108	0.00000361
		52	5260	5,259.99767	0.00000044
		60	5300	5,299.96519	0.00000657
		64	5320	5,319.95533	0.00000840
		100	5500	5,499.94432	0.00001012
		116	5580	5,579.91465	0.00001530
		140	5700	5,699.98684	0.00000231
		144	5720	5,719.99667	0.00000058
		149	5745	5,744.99532	0.00000081
		157	5785	5,784.92312	0.00001329
		165	5825	5,824.97231	0.00000475

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	7.66V	36	5180	5,179.90973	0.00001743
		44	5220	5,219.95401	0.00000881
		48	5240	5,239.98488	0.00000289
		52	5260	5,259.95500	0.00000856
		60	5300	5,299.90017	0.00001884
		64	5320	5,319.99397	0.00000113
		100	5500	5,499.92245	0.00001410
		116	5580	5,579.91903	0.00001451
		140	5700	5,699.98571	0.00000251
		144	5720	5,719.98100	0.00000332
		149	5745	5,744.98839	0.00000202
		157	5785	5,784.90143	0.00001704
		165	5825	5,824.99446	0.00000095

0 ℃	6V	36	5180	5,179.93170	0.00001319
		44	5220	5,219.92339	0.00001468
		48	5240	5,239.98309	0.00000323
		52	5260	5,259.99360	0.00000122
		60	5300	5,299.99075	0.00000175
		64	5320	5,319.94664	0.00001003
		100	5500	5,499.93933	0.00001103
		116	5580	5,579.93674	0.00001134
		140	5700	5,699.91177	0.00001548
		144	5720	5,719.91185	0.00001541
		149	5745	5,744.90912	0.00001582
		157	5785	5,784.97428	0.00000445
		165	5825	5,824.90920	0.00001559
35 ℃	6V	36	5180	5,179.90760	0.00001784
		44	5220	5,219.94964	0.00000965
		48	5240	5,239.92401	0.00001450
		52	5260	5,259.96116	0.00000738
		60	5300	5,299.96470	0.00000666
		64	5320	5,319.94571	0.00001020
		100	5500	5,499.97040	0.00000538
		116	5580	5,579.93771	0.00001116
		140	5700	5,699.95655	0.00000762
		144	5720	5,719.91659	0.00001458
		149	5745	5,744.90103	0.00001723
		157	5785	5,784.90448	0.00001651
		165	5825	5,824.96889	0.00000534

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Operation Mode	802.11 n_HT40	Test Date	2018.09.10
Temperature	:23.7 ℃	Test By	Hone
Humidity	:58 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
20 ℃	8.8V	38	5190	5,189.98046	0.00000376
		46	5230	5,229.94503	0.00001051
		54	5270	5,269.99705	0.00000056
		62	5310	5,309.93779	0.00001172
		102	5510	5,509.97582	0.00000439
		110	5550	5,549.94681	0.00000958
		134	5670	5,669.97659	0.00000413
		142	5710	5,709.96914	0.00000540
		151	5755	5,754.97309	0.00000468
		159	5795	5,794.96517	0.00000601
	6V	38	5190	5,189.92203	0.00001502
		46	5230	5,229.94959	0.00000964
		54	5270	5,269.95206	0.00000910
		62	5310	5,309.97986	0.00000379
		102	5510	5,509.93439	0.00001191
		110	5550	5,549.98052	0.00000351
		134	5670	5,669.96952	0.00000538
		142	5710	5,709.97793	0.00000387
		151	5755	5,754.95295	0.00000818
		159	5795	5,794.97319	0.00000463

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	7.66V	38	5190	5,189.91554	0.00001627
		46	5230	5,229.97505	0.00000477
		54	5270	5,269.90283	0.00001844
		62	5310	5,309.90336	0.00001820
		102	5510	5,509.97706	0.00000416
		110	5550	5,549.90866	0.00001646
		134	5670	5,669.96043	0.00000698
		142	5710	5,709.92459	0.00001321
		151	5755	5,754.91300	0.00001512
		159	5795	5,794.96984	0.00000520
0 ℃	6V	38	5190	5,189.97671	0.00000449
		46	5230	5,229.98812	0.00000227
		54	5270	5,269.99105	0.00000170
		62	5310	5,309.97875	0.00000400
		102	5510	5,509.97428	0.00000467
		110	5550	5,549.91317	0.00001565
		134	5670	5,669.99830	0.00000030
		142	5710	5,709.98981	0.00000178
		151	5755	5,754.92615	0.00001283
		159	5795	5,794.97578	0.00000418
35 ℃	6V	38	5190	5,189.99293	0.00000136
		46	5230	5,229.94189	0.00001111
		54	5270	5,269.93660	0.00001203
		62	5310	5,309.98081	0.00000361
		102	5510	5,509.93453	0.00001188
		110	5550	5,549.90634	0.00001688
		134	5670	5,669.96911	0.00000545
		142	5710	5,709.94748	0.00000920
		151	5755	5,754.99641	0.00000062
		159	5795	5,794.97975	0.00000349

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Operation Mode	802.11 ac_VHT80	Test Date	2018.09.10
Temperature	:23.7 ℃	Test By	Hone
Humidity	:58 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
20 ℃	8.8V	42	5210	5,209.90878	0.00001751
		58	5290	5,289.91080	0.00001686
		106	5530	5,529.94028	0.00001080
		122	5610	5,609.97515	0.00000443
		138	5690	5,689.94641	0.00000942
		155	5775	5,774.98635	0.00000236
	6V	42	5210	5,209.97007	0.00000574
		58	5290	5,289.98164	0.00000347
		106	5530	5,529.98620	0.00000250
		122	5610	5,609.97299	0.00000481
		138	5690	5,689.96983	0.00000530
		155	5775	5,774.92547	0.00001291
	7.66V	42	5210	5,209.93341	0.00001278
		58	5290	5,289.90801	0.00001739
		106	5530	5,529.97462	0.00000459
		122	5610	5,609.90806	0.00001639
		138	5690	5,689.90522	0.00001666
		155	5775	5,774.90713	0.00001608
0 ℃	6V	42	5210	5,209.90163	0.00001888
		58	5290	5,289.96817	0.00000602
		106	5530	5,529.93031	0.00001260
		122	5610	5,609.95875	0.00000735
		138	5690	5,689.93064	0.00001219
		155	5775	5,774.93221	0.00001174
35 ℃	6V	42	5210	5,209.92336	0.00001471
		58	5290	5,289.94870	0.00000970
		106	5530	5,529.93927	0.00001098
		122	5610	5,609.97576	0.00000432
		138	5690	5,689.95351	0.00000817
		155	5775	5,774.93014	0.00001210

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2 Minutes:

Operation Mode	802.11 a	Test Date	2018.09.10
Temperature	:23.7 ℃	Test By	Hone
Humidity	:58 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
20 ℃	8.8V	36	5180	5,179.90352	0.00001863
		44	5220	5,219.93888	0.00001171
		48	5240	5,239.97931	0.00000395
		52	5260	5,259.98049	0.00000371
		60	5300	5,299.90898	0.00001717
		64	5320	5,319.94913	0.00000956
		100	5500	5,499.98248	0.00000319
		116	5580	5,579.94032	0.00001070
		140	5700	5,699.92899	0.00001246
		144	5720	5,719.90749	0.00001617
		149	5745	5,744.96599	0.00000592
		157	5785	5,784.94538	0.00000944
		165	5825	5,824.97748	0.00000387
	6V	36	5180	5,179.96236	0.00000727
		44	5220	5,219.93037	0.00001334
		48	5240	5,239.96386	0.00000690
		52	5260	5,259.91878	0.00001544
		60	5300	5,299.93607	0.00001206
		64	5320	5,319.97769	0.00000419
		100	5500	5,499.91007	0.00001635
		116	5580	5,579.99172	0.00000148
		140	5700	5,699.90535	0.00001661
		144	5720	5,719.95697	0.00000752
		149	5745	5,744.96954	0.00000530
		157	5785	5,784.95305	0.00000812
		165	5825	5,824.93210	0.00001166

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	7.66V	36	5180	5,179.98670	0.00000257
		44	5220	5,219.96032	0.00000760
		48	5240	5,239.99223	0.00000148
		52	5260	5,259.99192	0.00000154
		60	5300	5,299.96083	0.00000739
		64	5320	5,319.92801	0.00001353
		100	5500	5,499.93762	0.00001134
		116	5580	5,579.90437	0.00001714
		140	5700	5,699.97243	0.00000484
		144	5720	5,719.96181	0.00000668
		149	5745	5,744.97671	0.00000405
		157	5785	5,784.93608	0.00001105
		165	5825	5,824.91730	0.00001420
0 ℃	6V	36	5180	5,179.90566	0.00001821
		44	5220	5,219.91180	0.00001690
		48	5240	5,239.90898	0.00001737
		52	5260	5,259.96787	0.00000611
		60	5300	5,299.95996	0.00000755
		64	5320	5,319.99419	0.00000109
		100	5500	5,499.94648	0.00000973
		116	5580	5,579.96757	0.00000581
		140	5700	5,699.92542	0.00001308
		144	5720	5,719.99895	0.00000018
		149	5745	5,744.90513	0.00001651
		157	5785	5,784.98838	0.00000201
		165	5825	5,824.96576	0.00000588
35 ℃	6V	36	5180	5,179.91674	0.00001607
		44	5220	5,219.96620	0.00000648
		48	5240	5,239.97092	0.00000555
		52	5260	5,259.91779	0.00001563
		60	5300	5,299.98607	0.00000263
		64	5320	5,319.97740	0.00000425
		100	5500	5,499.97289	0.00000493
		116	5580	5,579.91137	0.00001588
		140	5700	5,699.94194	0.00001019
		144	5720	5,719.97926	0.00000363
		149	5745	5,744.90554	0.00001644
		157	5785	5,784.96388	0.00000624
		165	5825	5,824.90717	0.00001594

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Operation Mode	802.11 n_HT40	Test Date	2018.09.10
Temperature	:23.7 ℃	Test By	Hone
Humidity	:58 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
20 ℃	8.8V	38	5190	5,189.94627	0.00001035
		46	5230	5,229.97777	0.00000425
		54	5270	5,269.90613	0.00001781
		62	5310	5,309.96659	0.00000629
		102	5510	5,509.99935	0.00000012
		110	5550	5,549.96380	0.00000652
		134	5670	5,669.91966	0.00001417
		142	5710	5,709.97573	0.00000425
		151	5755	5,754.93736	0.00001088
		159	5795	5,794.96123	0.00000669
	6V	38	5190	5,189.97447	0.00000492
		46	5230	5,229.91472	0.00001631
		54	5270	5,269.92053	0.00001508
		62	5310	5,309.91657	0.00001571
		102	5510	5,509.92181	0.00001419
		110	5550	5,549.93850	0.00001108
		134	5670	5,669.99158	0.00000149
		142	5710	5,709.97549	0.00000429
		151	5755	5,754.93853	0.00001068
		159	5795	5,794.94459	0.00000956

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	7.66V	38	5190	5,189.91356	0.00001666
		46	5230	5,229.91667	0.00001593
		54	5270	5,269.94100	0.00001120
		62	5310	5,309.91671	0.00001569
		102	5510	5,509.97391	0.00000474
		110	5550	5,549.93666	0.00001141
		134	5670	5,669.91527	0.00001494
		142	5710	5,709.99068	0.00000163
		151	5755	5,754.93733	0.00001089
		159	5795	5,794.92507	0.00001293
0 ℃	6V	38	5190	5,189.98275	0.00000332
		46	5230	5,229.92051	0.00001520
		54	5270	5,269.99202	0.00000151
		62	5310	5,309.98591	0.00000265
		102	5510	5,509.93003	0.00001270
		110	5550	5,549.97669	0.00000420
		134	5670	5,669.94918	0.00000896
		142	5710	5,709.91309	0.00001522
		151	5755	5,754.98642	0.00000236
		159	5795	5,794.94706	0.00000914
35 ℃	6V	38	5190	5,189.93061	0.00001337
		46	5230	5,229.92931	0.00001352
		54	5270	5,269.91818	0.00001553
		62	5310	5,309.90558	0.00001778
		102	5510	5,509.99936	0.00000012
		110	5550	5,549.94408	0.00001008
		134	5670	5,669.98000	0.00000353
		142	5710	5,709.93385	0.00001158
		151	5755	5,754.90497	0.00001651
		159	5795	5,794.91662	0.00001439

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Operation Mode	802.11 ac_VHT80	Test Date	2018.09.10
Temperature	:23.7 ℃	Test By	Hone
Humidity	:58 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
20 ℃	8.8V	42	5210	5,209.95412	0.00000881
		58	5290	5,289.93436	0.00001241
		106	5530	5,529.98726	0.00000230
		122	5610	5,609.90117	0.00001762
		138	5690	5,689.96033	0.00000697
		155	5775	5,774.99526	0.00000082
	6V	42	5210	5,209.95855	0.00000796
		58	5290	5,289.92531	0.00001412
		106	5530	5,529.96649	0.00000606
		122	5610	5,609.97153	0.00000507
		138	5690	5,689.99542	0.00000080
		155	5775	5,774.99983	0.00000003
	7.66V	42	5210	5,209.90939	0.00001739
		58	5290	5,289.95949	0.00000766
		106	5530	5,529.90995	0.00001628
		122	5610	5,609.98520	0.00000264
		138	5690	5,689.91436	0.00001505
		155	5775	5,774.92987	0.00001214
0 ℃	6V	42	5210	5,209.90170	0.00001887
		58	5290	5,289.91166	0.00001670
		106	5530	5,529.95762	0.00000766
		122	5610	5,609.99093	0.00000162
		138	5690	5,689.95840	0.00000731
		155	5775	5,774.92911	0.00001228
35 ℃	6V	42	5210	5,209.94221	0.00001109
		58	5290	5,289.99952	0.00000009
		106	5530	5,529.97994	0.00000363
		122	5610	5,609.94059	0.00001059
		138	5690	5,689.94779	0.00000918
		155	5775	5,774.94679	0.00000921

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5 Minutes:

Operation Mode	802.11 a	Test Date	2018.09.10
Temperature	:23.7 ℃	Test By	Hone
Humidity	:58 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
20 ℃	8.8V	36	5180	5,179.90468	0.00001840
		44	5220	5,219.93520	0.00001241
		48	5240	5,239.90991	0.00001719
		52	5260	5,259.99009	0.00000188
		60	5300	5,299.95739	0.00000804
		64	5320	5,319.95319	0.00000880
		100	5500	5,499.90817	0.00001670
		116	5580	5,579.93550	0.00001156
		140	5700	5,699.95894	0.00000720
		144	5720	5,719.90120	0.00001727
		149	5745	5,744.92387	0.00001325
		157	5785	5,784.99951	0.00000008
		165	5825	5,824.93783	0.00001067
	6V	36	5180	5,179.95973	0.00000777
		44	5220	5,219.92709	0.00001397
		48	5240	5,239.99226	0.00000148
		52	5260	5,259.96229	0.00000717
		60	5300	5,299.95335	0.00000880
		64	5320	5,319.97174	0.00000531
		100	5500	5,499.94959	0.00000917
		116	5580	5,579.96133	0.00000693
		140	5700	5,699.90261	0.00001709
		144	5720	5,719.99449	0.00000096
		149	5745	5,744.94558	0.00000947
		157	5785	5,784.97170	0.00000489
		165	5825	5,824.95476	0.00000777

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	7.66V	36	5180	5,179.98873	0.00000218
		44	5220	5,219.94316	0.00001089
		48	5240	5,239.97104	0.00000553
		52	5260	5,259.93813	0.00001176
		60	5300	5,299.90807	0.00001735
		64	5320	5,319.96833	0.00000595
		100	5500	5,499.90328	0.00001759
		116	5580	5,579.96856	0.00000563
		140	5700	5,699.95138	0.00000853
		144	5720	5,719.98486	0.00000265
		149	5745	5,744.93182	0.00001187
		157	5785	5,784.95274	0.00000817
		165	5825	5,824.96735	0.00000561
0 ℃	6V	36	5180	5,179.94286	0.00001103
		44	5220	5,219.92794	0.00001380
		48	5240	5,239.92553	0.00001421
		52	5260	5,259.91877	0.00001544
		60	5300	5,299.99451	0.00000104
		64	5320	5,319.99487	0.00000096
		100	5500	5,499.93227	0.00001231
		116	5580	5,579.93126	0.00001232
		140	5700	5,699.95872	0.00000724
		144	5720	5,719.93761	0.00001091
		149	5745	5,744.95798	0.00000731
		157	5785	5,784.95637	0.00000754
		165	5825	5,824.92635	0.00001264
35 ℃	6V	36	5180	5,179.94716	0.00001020
		44	5220	5,219.97349	0.00000508
		48	5240	5,239.95179	0.00000920
		52	5260	5,259.92430	0.00001439
		60	5300	5,299.93429	0.00001240
		64	5320	5,319.91609	0.00001577
		100	5500	5,499.93517	0.00001179
		116	5580	5,579.97173	0.00000507
		140	5700	5,699.93286	0.00001178
		144	5720	5,719.97423	0.00000451
		149	5745	5,744.97604	0.00000417
		157	5785	5,784.99311	0.00000119
		165	5825	5,824.91080	0.00001531

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Operation Mode	802.11 n_HT40	Test Date	2018.09.10
Temperature	:23.7 ℃	Test By	Hone
Humidity	:58 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
20 ℃	8.8V	38	5190	5,189.99166	0.00000161
		46	5230	5,229.95669	0.00000828
		54	5270	5,269.90402	0.00001821
		62	5310	5,309.97517	0.00000468
		102	5510	5,509.98061	0.00000352
		110	5550	5,549.99462	0.00000097
		134	5670	5,669.95286	0.00000831
		142	5710	5,709.90418	0.00001678
		151	5755	5,754.94618	0.00000935
		159	5795	5,794.91940	0.00001391
	6V	38	5190	5,189.95780	0.00000813
		46	5230	5,229.91321	0.00001659
		54	5270	5,269.93340	0.00001264
		62	5310	5,309.99321	0.00000128
		102	5510	5,509.97317	0.00000487
		110	5550	5,549.96345	0.00000659
		134	5670	5,669.98406	0.00000281
		142	5710	5,709.98377	0.00000284
		151	5755	5,754.93363	0.00001153
		159	5795	5,794.91086	0.00001538

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	7.66V	38	5190	5,189.95632	0.00000842
		46	5230	5,229.94466	0.00001058
		54	5270	5,269.99727	0.00000052
		62	5310	5,309.96095	0.00000735
		102	5510	5,509.93290	0.00001218
		110	5550	5,549.91762	0.00001484
		134	5670	5,669.98536	0.00000258
		142	5710	5,709.93985	0.00001053
		151	5755	5,754.93491	0.00001131
		159	5795	5,794.98663	0.00000231
0 ℃	6V	38	5190	5,189.97098	0.00000559
		46	5230	5,229.98338	0.00000318
		54	5270	5,269.91134	0.00001682
		62	5310	5,309.91497	0.00001601
		102	5510	5,509.90716	0.00001685
		110	5550	5,549.92100	0.00001423
		134	5670	5,669.93562	0.00001135
		142	5710	5,709.93682	0.00001106
		151	5755	5,754.94855	0.00000894
		159	5795	5,794.90903	0.00001570
35 ℃	6V	38	5190	5,189.97208	0.00000538
		46	5230	5,229.98490	0.00000289
		54	5270	5,269.97695	0.00000437
		62	5310	5,309.98308	0.00000319
		102	5510	5,509.90386	0.00001745
		110	5550	5,549.91182	0.00001589
		134	5670	5,669.99767	0.00000041
		142	5710	5,709.91582	0.00001474
		151	5755	5,754.93144	0.00001191
		159	5795	5,794.97213	0.00000481

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Operation Mode	802.11 ac_VHT80	Test Date	2018.09.10
Temperature	:23.7 ℃	Test By	Hone
Humidity	:58 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
20 ℃	8.8V	42	5210	5,209.94438	0.00001068
		58	5290	5,289.92121	0.00001489
		106	5530	5,529.94047	0.00001076
		122	5610	5,609.91845	0.00001454
		138	5690	5,689.95043	0.00000871
		155	5775	5,774.97424	0.00000446
	6V	42	5210	5,209.92661	0.00001409
		58	5290	5,289.91201	0.00001663
		106	5530	5,529.91377	0.00001559
		122	5610	5,609.94969	0.00000897
		138	5690	5,689.94975	0.00000883
		155	5775	5,774.91992	0.00001387
	7.66V	42	5210	5,209.90461	0.00001831
		58	5290	5,289.97923	0.00000393
		106	5530	5,529.91349	0.00001564
		122	5610	5,609.97186	0.00000502
		138	5690	5,689.94293	0.00001003
		155	5775	5,774.95060	0.00000855
0 ℃	6V	42	5210	5,209.99325	0.00000130
		58	5290	5,289.98139	0.00000352
		106	5530	5,529.99408	0.00000107
		122	5610	5,609.93123	0.00001226
		138	5690	5,689.95209	0.00000842
		155	5775	5,774.98764	0.00000214
35 ℃	6V	42	5210	5,209.90400	0.00001843
		58	5290	5,289.95574	0.00000837
		106	5530	5,529.94108	0.00001065
		122	5610	5,609.98240	0.00000314
		138	5690	5,689.95668	0.00000761
		155	5775	5,774.98405	0.00000276

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10 Minutes:

Operation Mode	802.11 a	Test Date	2018.09.10
Temperature	:23.7 ℃	Test By	Hone
Humidity	:58 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
20 ℃	8.8V	36	5180	5,179.96802	0.00000617
		44	5220	5,219.96009	0.00000765
		48	5240	5,239.94398	0.00001069
		52	5260	5,259.94658	0.00001016
		60	5300	5,299.99259	0.00000140
		64	5320	5,319.99187	0.00000153
		100	5500	5,499.93005	0.00001272
		116	5580	5,579.97361	0.00000473
		140	5700	5,699.99894	0.00000019
		144	5720	5,719.91367	0.00001509
		149	5745	5,744.91496	0.00001480
		157	5785	5,784.99739	0.00000045
		165	5825	5,824.93054	0.00001192
	6V	36	5180	5,179.99113	0.00000171
		44	5220	5,219.93826	0.00001183
		48	5240	5,239.97596	0.00000459
		52	5260	5,259.95624	0.00000832
		60	5300	5,299.95048	0.00000934
		64	5320	5,319.95729	0.00000803
		100	5500	5,499.96191	0.00000693
		116	5580	5,579.95484	0.00000809
		140	5700	5,699.98256	0.00000306
		144	5720	5,719.94505	0.00000961
		149	5745	5,744.96802	0.00000557
		157	5785	5,784.90875	0.00001577
		165	5825	5,824.97569	0.00000417

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	7.66V	36	5180	5,179.99036	0.00000186
		44	5220	5,219.99953	0.00000009
		48	5240	5,239.91605	0.00001602
		52	5260	5,259.99515	0.00000092
		60	5300	5,299.93491	0.00001228
		64	5320	5,319.96669	0.00000626
		100	5500	5,499.92856	0.00001299
		116	5580	5,579.98193	0.00000324
		140	5700	5,699.91786	0.00001441
		144	5720	5,719.93365	0.00001160
		149	5745	5,744.90754	0.00001609
		157	5785	5,784.90999	0.00001556
		165	5825	5,824.94503	0.00000944
0 ℃	6V	36	5180	5,179.99721	0.00000054
		44	5220	5,219.96660	0.00000640
		48	5240	5,239.97512	0.00000475
		52	5260	5,259.97305	0.00000512
		60	5300	5,299.93478	0.00001231
		64	5320	5,319.95424	0.00000860
		100	5500	5,499.95527	0.00000813
		116	5580	5,579.93729	0.00001124
		140	5700	5,699.94687	0.00000932
		144	5720	5,719.92032	0.00001393
		149	5745	5,744.91855	0.00001418
		157	5785	5,784.96470	0.00000610
		165	5825	5,824.93008	0.00001200
35 ℃	6V	36	5180	5,179.98472	0.00000295
		44	5220	5,219.92211	0.00001492
		48	5240	5,239.99573	0.00000081
		52	5260	5,259.99582	0.00000079
		60	5300	5,299.92113	0.00001488
		64	5320	5,319.98609	0.00000261
		100	5500	5,499.91880	0.00001476
		116	5580	5,579.97556	0.00000438
		140	5700	5,699.99513	0.00000085
		144	5720	5,719.91733	0.00001445
		149	5745	5,744.96943	0.00000532
		157	5785	5,784.91264	0.00001510
		165	5825	5,824.95672	0.00000743

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Operation Mode	802.11 n_HT40	Test Date	2018.09.10
Temperature	:23.7 ℃	Test By	Hone
Humidity	:58 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
20 ℃	8.8V	38	5190	5,189.97929	0.00000399
		46	5230	5,229.97425	0.00000492
		54	5270	5,269.95773	0.00000802
		62	5310	5,309.97073	0.00000551
		102	5510	5,509.97265	0.00000496
		110	5550	5,549.99040	0.00000173
		134	5670	5,669.93759	0.00001101
		142	5710	5,709.93155	0.00001199
		151	5755	5,754.94752	0.00000912
		159	5795	5,794.98763	0.00000213
	6V	38	5190	5,189.97596	0.00000463
		46	5230	5,229.99931	0.00000013
		54	5270	5,269.99694	0.00000058
		62	5310	5,309.98847	0.00000217
		102	5510	5,509.98154	0.00000335
		110	5550	5,549.92076	0.00001428
		134	5670	5,669.98725	0.00000225
		142	5710	5,709.95670	0.00000758
		151	5755	5,754.94198	0.00001008
		159	5795	5,794.96508	0.00000603
	7.66V	38	5190	5,189.93911	0.00001173
		46	5230	5,229.91520	0.00001621
		54	5270	5,269.90968	0.00001714
		62	5310	5,309.92065	0.00001494
		102	5510	5,509.99129	0.00000158
		110	5550	5,549.91526	0.00001527
		134	5670	5,669.93210	0.00001198
		142	5710	5,709.98427	0.00000275
		151	5755	5,754.99332	0.00000116
		159	5795	5,794.96081	0.00000676

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0 ℃	6V	38	5190	5,189.94191	0.00001119
		46	5230	5,229.93994	0.00001148
		54	5270	5,269.92791	0.00001368
		62	5310	5,309.90424	0.00001803
		102	5510	5,509.92988	0.00001273
		110	5550	5,549.99855	0.00000026
		134	5670	5,669.98139	0.00000328
		142	5710	5,709.91865	0.00001425
		151	5755	5,754.90562	0.00001640
		159	5795	5,794.91053	0.00001544
35 ℃	6V	38	5190	5,189.91674	0.00001604
		46	5230	5,229.94658	0.00001021
		54	5270	5,269.93404	0.00001252
		62	5310	5,309.91652	0.00001572
		102	5510	5,509.96009	0.00000724
		110	5550	5,549.99068	0.00000168
		134	5670	5,669.92781	0.00001273
		142	5710	5,709.91643	0.00001464
		151	5755	5,754.98063	0.00000337
		159	5795	5,794.91262	0.00001508

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Operation Mode	802.11 ac_VHT80	Test Date	2018.09.10
Temperature	:23.7 ℃	Test By	Hone
Humidity	:58 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
20 ℃	8.8V	42	5210	5,209.99100	0.00000173
		58	5290	5,289.91197	0.00001664
		106	5530	5,529.98129	0.00000338
		122	5610	5,609.95476	0.00000806
		138	5690	5,689.92898	0.00001248
		155	5775	5,774.92778	0.00001251
	6V	42	5210	5,209.91199	0.00001689
		58	5290	5,289.98318	0.00000318
		106	5530	5,529.97839	0.00000391
		122	5610	5,609.92606	0.00001318
		138	5690	5,689.97833	0.00000381
		155	5775	5,774.92168	0.00001356
	7.66V	42	5210	5,209.91660	0.00001601
		58	5290	5,289.95041	0.00000937
		106	5530	5,529.90297	0.00001755
		122	5610	5,609.95613	0.00000782
		138	5690	5,689.98053	0.00000342
		155	5775	5,774.90203	0.00001696
0 ℃	6V	42	5210	5,209.96962	0.00000583
		58	5290	5,289.94005	0.00001133
		106	5530	5,529.90170	0.00001778
		122	5610	5,609.96411	0.00000640
		138	5690	5,689.97328	0.00000470
		155	5775	5,774.92644	0.00001274
35 ℃	6V	42	5210	5,209.99123	0.00000168
		58	5290	5,289.97522	0.00000468
		106	5530	5,529.90245	0.00001764
		122	5610	5,609.92530	0.00001332
		138	5690	5,689.98927	0.00000189
		155	5775	5,774.96148	0.00000667

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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.

14.2 Antenna Connected Construction

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

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

~ End of Report ~

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