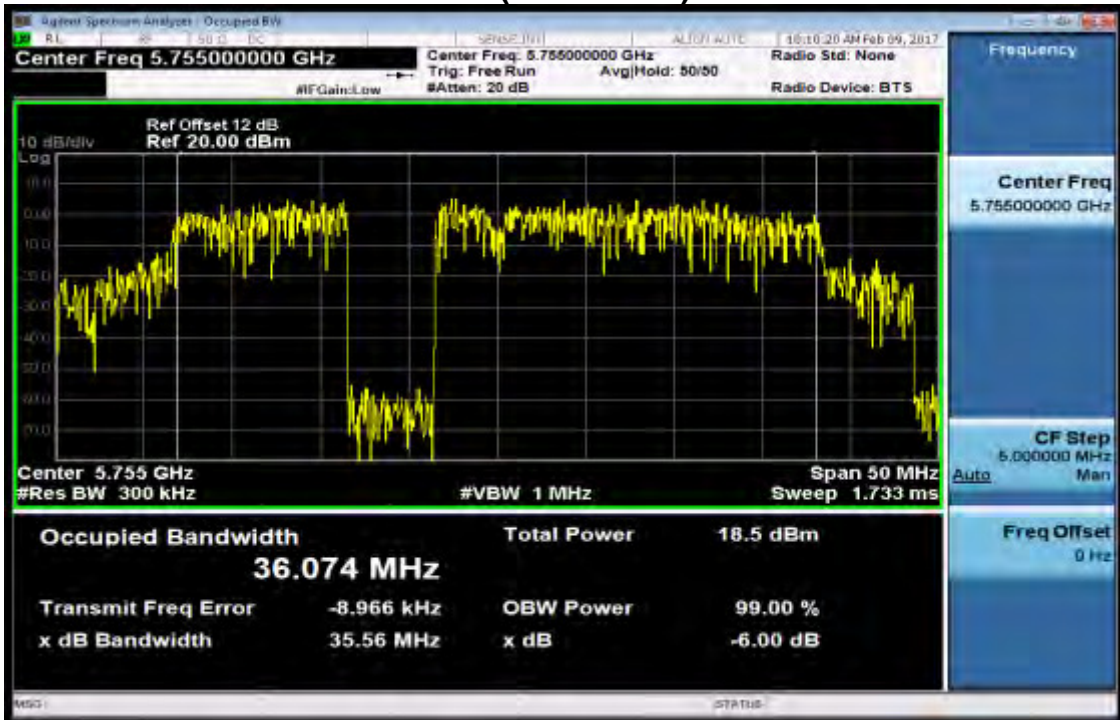
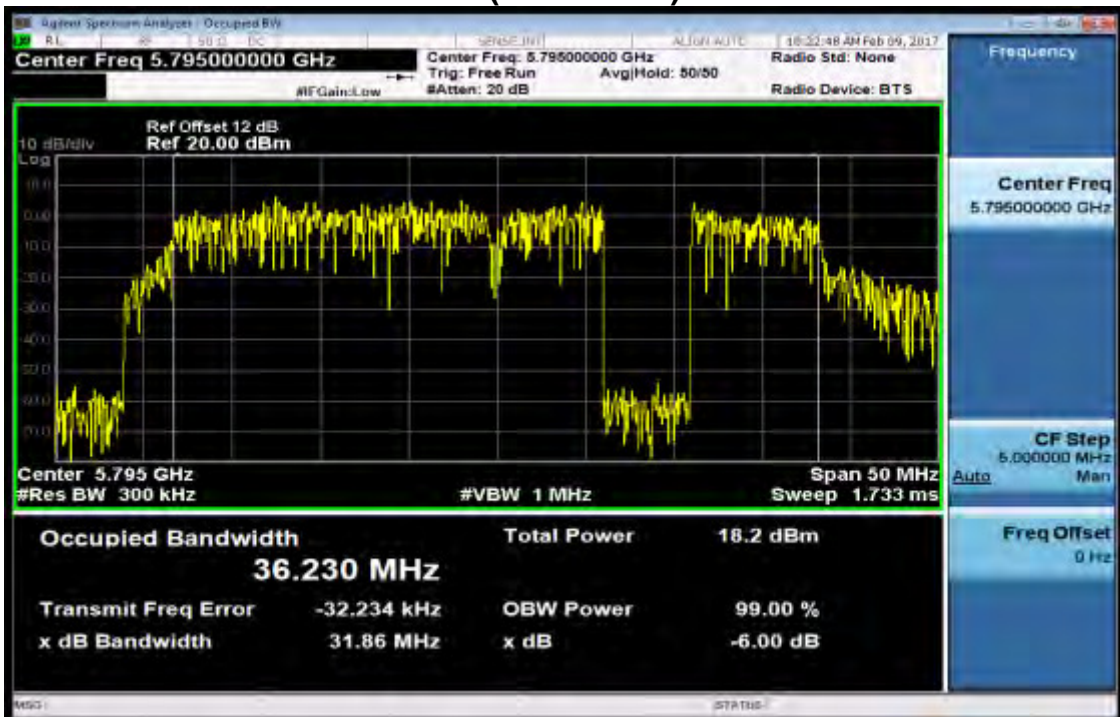


802.11n_HT40, 5725~5850 MHz (AUX1)
6dB Band Width Test Data CH-Low (5755 MHz)



6dB Band Width Test Data CH-Mid (5795 MHz)



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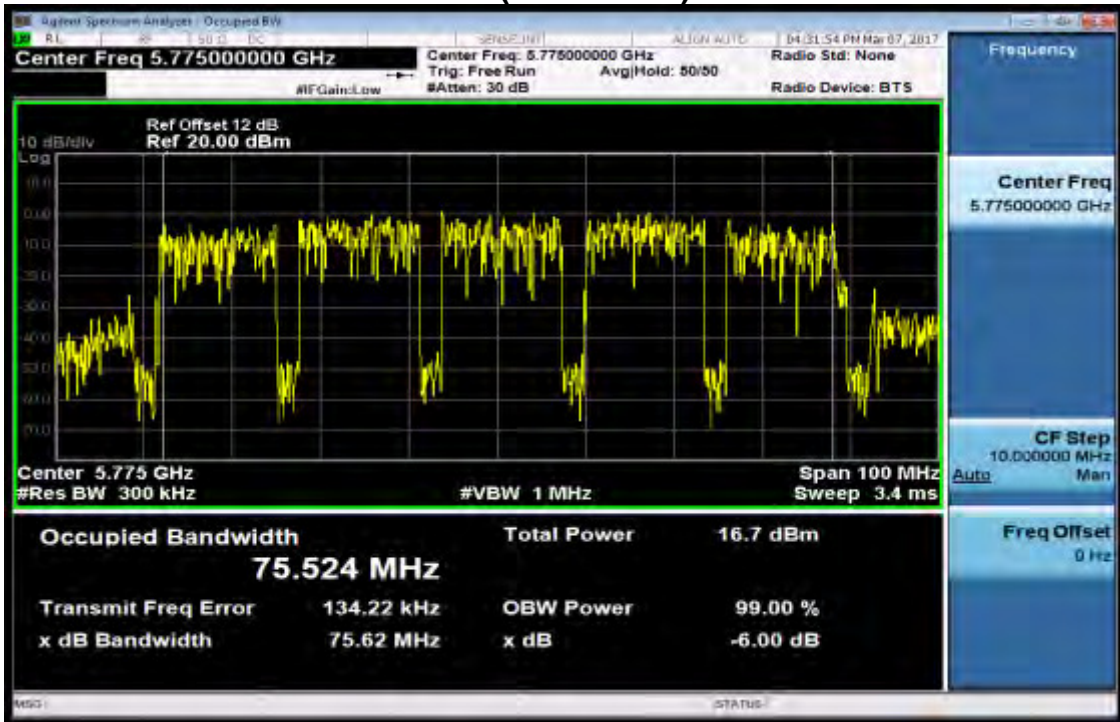
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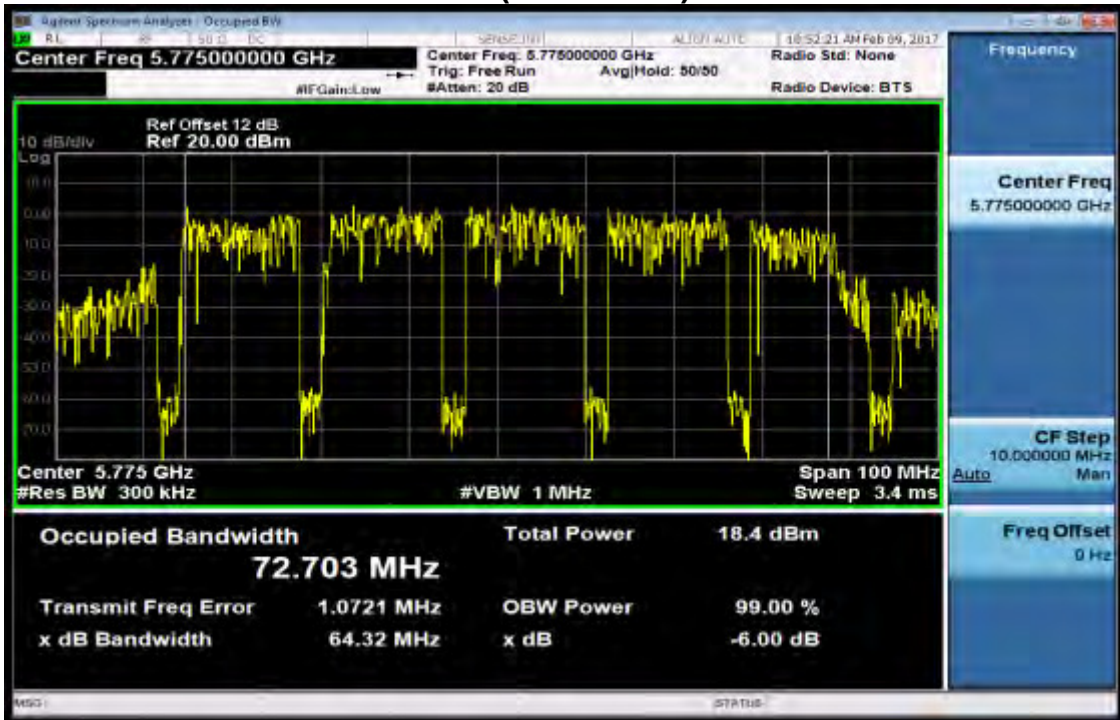
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**802.11ac VHT80, 5725~5850 MHz (MAIN)
6dB Band Width Test Data CH-Low (5775 MHz)**



**802.11ac VHT80, 5725~5850 MHz (AUX1)
6dB Band Width Test Data CH-Low (5775 MHz)**



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9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY	LIMIT
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U-NII-1

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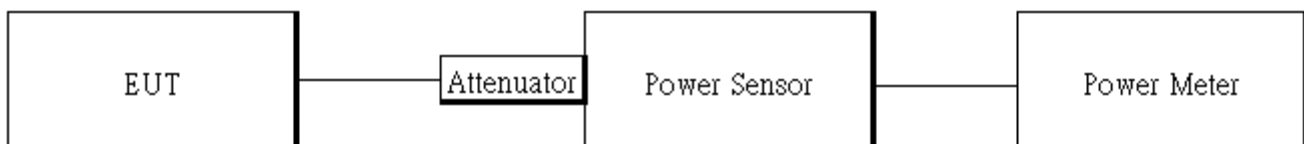
9.2 Measurement Procedure

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.

9.3 Measurement Equipment Used

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Power Meter	Anritsu	ML2496A	1326001	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017

9.4 Test Set-up



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9.5 Measurement Result

Conducted output power (FCC)

802.11a_Aux1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	17.90	61.660	23.98	PASS
44	5220	MCS0	17.88	61.376	23.98	PASS
48	5240	MCS0	17.94	62.230	23.98	PASS
52	5260	MCS0	17.93	62.087	23.98 or $11+10\log(B) = 25.75$	PASS
60	5300	MCS0	17.88	61.376	23.98 or $11+10\log(B) = 25.68$	PASS
64	5320	MCS0	17.87	61.235	23.98 or $11+10\log(B) = 25.70$	PASS
100	5500	MCS0	16.42	43.853	23.98 or $11+10\log(B) = 25.73$	PASS
116	5580	MCS0	16.35	43.152	23.98 or $11+10\log(B) = 25.76$	PASS
140	5700	MCS0	16.47	44.361	23.98 or $11+10\log(B) = 24.72$	PASS
149	5745	MCS0	16.48	44.463	30	PASS
157	5785	MCS0	16.46	44.259	30	PASS
165	5825	MCS0	16.43	43.954	30	PASS

802.11n_HT20_Aux1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	17.88	61.376	23.98	PASS
44	5220	MCS0	17.92	61.944	23.98	PASS
48	5240	MCS0	17.91	61.802	23.98	PASS
52	5260	MCS0	17.94	62.230	23.98 or $11+10\log(B) = 25.77$	PASS
60	5300	MCS0	17.91	61.802	23.98 or $11+10\log(B) = 25.68$	PASS
64	5320	MCS0	17.89	61.518	23.98 or $11+10\log(B) = 25.75$	PASS
100	5500	MCS0	16.45	44.157	23.98 or $11+10\log(B) = 24.75$	PASS
116	5580	MCS0	16.48	44.463	23.98 or $11+10\log(B) = 25.62$	PASS
140	5700	MCS0	15.42	34.834	23.98 or $11+10\log(B) = 24.46$	PASS
149	5745	MCS0	16.44	44.055	30	PASS
157	5785	MCS0	16.45	44.157	30	PASS
165	5825	MCS0	16.35	43.152	30	PASS

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802.11n_HT40_Aux1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	17.95	62.373	23.98	PASS
46	5230	MCS0	17.94	62.230	23.98	PASS
54	5270	MCS0	17.84	60.814	23.98 or $11+10\log(B) = 27.83$	PASS
62	5310	MCS0	15.89	38.815	23.98 or $11+10\log(B) = 27.77$	PASS
102	5510	MCS0	16.41	43.752	23.98 or $11+10\log(B) = 27.96$	PASS
110	5550	MCS0	16.46	44.259	23.98 or $11+10\log(B) = 27.86$	PASS
134	5670	MCS0	16.45	44.157	23.98 or $11+10\log(B) = 27.97$	PASS
151	5755	MCS0	16.48	44.463	30	PASS
159	5795	MCS0	16.39	43.551	30	PASS

802.11ac_VHT80_Aux1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	17.91	61.802	23.98	PASS
58	5290	MCS0	14.39	27.479	23.98 or $11+10\log(B) = 30.21$	PASS
106	5530	MCS0	16.48	44.463	23.98 or $11+10\log(B) = 30.37$	PASS
122	5610	MCS0	16.47	44.361	23.98 or $11+10\log(B) = 30.83$	PASS
155	5775	MCS0	16.46	44.259	30	PASS

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802.11a_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	15.31	14.16	17.78	60.024	23.98	PASS
44	5220	MCS8	15.56	13.91	17.82	60.579	23.98	PASS
48	5240	MCS8	15.46	14.11	17.85	60.919	23.98	PASS
52	5260	MCS8	15.42	14.12	17.83	60.656	23.98 or 11+10log(B) = 24.88	PASS
60	5300	MCS8	15.49	14.06	17.84	60.868	23.98 or 11+10log(B) = 24.92	PASS
64	5320	MCS8	15.35	14.04	17.75	59.628	23.98 or 11+10log(B) = 24.82	PASS
100	5500	MCS8	14.08	12.12	16.22	41.879	23.98 or 11+10log(B) = 24.65	PASS
116	5580	MCS8	13.94	12.51	16.29	42.598	23.98 or 11+10log(B) = 24.70	PASS
140	5700	MCS8	14.05	12.64	16.41	43.775	23.98 or 11+10log(B) = 24.70	PASS
149	5745	MCS8	14.35	12.16	16.40	43.671	30	PASS
157	5785	MCS8	14.34	12.05	16.35	43.197	30	PASS
165	5825	MCS8	13.85	12.57	16.27	42.338	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	15.43	14.04	17.80	60.265	23.98	PASS
44	5220	MCS8	15.66	13.73	17.81	60.418	23.98	PASS
48	5240	MCS8	15.57	13.99	17.86	61.119	23.98	PASS
52	5260	MCS8	15.44	14.17	17.86	61.116	23.98 or 11+10log(B) = 25.09	PASS
60	5300	MCS8	15.47	14	17.81	60.356	23.98 or 11+10log(B) = 25.00	PASS
64	5320	MCS8	15.43	13.97	17.77	59.860	23.98 or 11+10log(B) = 25.11	PASS
100	5500	MCS8	14.38	12.03	16.37	43.375	23.98 or 11+10log(B) = 24.58	PASS
116	5580	MCS8	14.16	12.48	16.41	43.763	23.98 or 11+10log(B) = 24.84	PASS
140	5700	MCS8	13.08	11.26	15.27	33.690	23.98 or 11+10log(B) = 24.46	PASS
149	5745	MCS8	14.52	11.82	16.39	43.519	30	PASS
157	5785	MCS8	14.44	11.83	16.34	43.038	30	PASS
165	5825	MCS8	14.01	12.32	16.26	42.238	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	15.66	13.97	17.91	61.759	23.98	PASS
46	5230	MCS8	15.82	13.67	17.89	61.475	23.98	PASS
54	5270	MCS8	15.49	13.99	17.81	60.461	23.98 or 11+10log(B) = 27.26	PASS
62	5310	MCS8	13.53	11.74	15.74	37.470	23.98 or 11+10log(B) = 27.51	PASS
102	5510	MCS8	14.45	11.88	16.36	43.278	23.98 or 11+10log(B) = 27.54	PASS
110	5550	MCS8	14.41	12.11	16.42	43.861	23.98 or 11+10log(B) = 27.56	PASS
134	5670	MCS8	13.97	12.53	16.32	42.852	23.98 or 11+10log(B) = 27.58	PASS
151	5755	MCS8	14.58	11.55	16.33	42.997	30	PASS
159	5795	MCS8	14.44	11.72	16.30	42.656	30	PASS

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802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS0	14.83	14.56	17.71	58.985	23.98	PASS
58	5290	MCS0	11.35	11.18	14.28	26.768	23.98 or $11+10\log(B) = 30.17$	PASS
106	5530	MCS0	13.72	13.01	16.39	43.549	23.98 or $11+10\log(B) = 30.26$	PASS
122	5610	MCS0	13.69	13.11	16.42	43.853	23.98 or $11+10\log(B) = 30.38$	PASS
155	5775	MCS0	13.89	12.91	16.44	44.034	30	PASS

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Conducted output power (IC)

802.11a_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	17.93	62.087	23.98 or $11+10\log(B) = 23.21$	PASS
60	5300	17.88	61.376	23.98 or $11+10\log(B) = 23.29$	PASS
64	5320	17.87	61.235	23.98 or $11+10\log(B) = 23.19$	PASS
100	5500	16.42	43.853	23.98 or $11+10\log(B) = 23.26$	PASS
116	5580	16.35	43.152	23.98 or $11+10\log(B) = 23.18$	PASS
140	5700	16.47	44.361	23.98 or $11+10\log(B) = 23.18$	PASS
149	5745	16.48	44.463	30	PASS
157	5785	16.46	44.259	30	PASS
165	5825	16.43	43.954	30	PASS

802.11n_HT20_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	10.71	11.776	23.98 or $11+10\log(B) = 23.47$	PASS
60	5300	10.78	11.967	23.98 or $11+10\log(B) = 23.46$	PASS
64	5320	10.73	11.830	23.98 or $11+10\log(B) = 23.47$	PASS
100	5500	9.35	8.610	23.98 or $11+10\log(B) = 23.47$	PASS
116	5580	9.37	8.650	23.98 or $11+10\log(B) = 23.46$	PASS
140	5700	9.35	8.610	23.98 or $11+10\log(B) = 23.46$	PASS
149	5745	9.28	8.472	30	PASS
157	5785	9.23	8.375	30	PASS
165	5825	9.29	8.492	30	PASS

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802.11n_HT40_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	17.84	60.814	23.98 or $11+10\log(B) = 26.59$	PASS
62	5310	15.89	38.815	23.98 or $11+10\log(B) = 26.60$	PASS
102	5510	16.41	43.752	23.98 or $11+10\log(B) = 26.58$	PASS
110	5550	16.46	44.259	23.98 or $11+10\log(B) = 26.53$	PASS
134	5670	16.45	44.157	23.98 or $11+10\log(B) = 26.56$	PASS
151	5755	16.48	44.463	30	PASS
159	5795	16.39	43.551	30	PASS

802.11ac_VHT80_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	14.39	27.479	23.98 or $11+10\log(B) = 29.76$	PASS
106	5530	16.48	44.463	23.98 or $11+10\log(B) = 29.75$	PASS
155	5775	17.21	52.602	30	PASS

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802.11a_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
		CH 0	CH 1					
52	5260	15.42	14.12	17.83	60.656	23.98	or $11+10\log(B) = 23.16$	PASS
60	5300	15.49	14.06	17.84	60.868	23.98	or $11+10\log(B) = 23.21$	PASS
64	5320	15.35	14.04	17.75	59.628	23.98	or $11+10\log(B) = 23.14$	PASS
100	5500	14.08	12.12	16.22	41.879	23.98	or $11+10\log(B) = 23.11$	PASS
116	5580	13.94	12.51	16.29	42.598	23.98	or $11+10\log(B) = 23.18$	PASS
140	5700	14.05	12.64	16.41	43.775	23.98	or $11+10\log(B) = 23.16$	PASS
149	5745	14.35	12.16	16.40	43.671		30	PASS
157	5785	14.34	12.05	16.35	43.197		30	PASS
165	5825	13.85	12.57	16.27	42.338		30	PASS

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	15.44	14.17	17.86	61.116	23.98	or $11+10\log(B) = 23.46$	PASS
60	5300	15.47	14	17.81	60.356	23.98	or $11+10\log(B) = 23.47$	PASS
64	5320	15.43	13.97	17.77	59.860	23.98	or $11+10\log(B) = 23.47$	PASS
100	5500	14.38	12.03	16.37	43.375	23.98	or $11+10\log(B) = 23.45$	PASS
116	5580	14.16	12.48	16.41	43.763	23.98	or $11+10\log(B) = 23.46$	PASS
140	5700	13.08	11.26	15.27	33.690	23.98	or $11+10\log(B) = 23.46$	PASS
149	5745	14.52	11.82	16.39	43.519		30	PASS
157	5785	14.44	11.83	16.34	43.038		30	PASS
165	5825	14.01	12.32	16.26	42.238		30	PASS

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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	15.49	13.99	17.81	60.461	23.98 or $11+10\log(B) = 26.59$	PASS
62	5310	13.53	11.74	15.74	37.470	23.98 or $11+10\log(B) = 26.59$	PASS
102	5510	14.45	11.88	16.36	43.278	23.98 or $11+10\log(B) = 26.58$	PASS
110	5550	14.41	12.11	16.42	43.861	23.98 or $11+10\log(B) = 26.53$	PASS
134	5670	13.97	12.53	16.32	42.852	23.98 or $11+10\log(B) = 26.56$	PASS
151	5755	14.58	11.55	16.33	42.997	30	PASS
159	5795	14.44	11.72	16.30	42.656	30	PASS

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	11.35	11.18	14.28	26.768	23.98 or $11+10\log(B) = 29.73$	PASS
106	5530	13.72	13.01	16.39	43.549	23.98 or $11+10\log(B) = 29.75$	PASS
155	5775	13.89	12.91	16.44	44.034	30	PASS

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EIRP
802.11a_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	17.90	0.920	18.82	76.208	23.01 or 10+10log(B)= 22.19	PASS
44	5220	17.88	0.920	18.80	75.858	23.01 or 10+10log(B)= 22.23	PASS
48	5240	17.94	0.920	18.86	76.913	23.01 or 10+10log(B)= 22.27	PASS
52	5260	17.93	-0.260	17.67	58.479	30 or 17+10log(B)= 29.21	PASS
60	5300	17.88	-0.260	17.62	57.810	30 or 17+10log(B)= 29.29	PASS
64	5320	17.87	-0.260	17.61	57.677	30 or 17+10log(B)= 29.19	PASS
100	5500	16.42	0.940	17.36	54.450	30 or 17+10log(B)= 29.26	PASS
116	5580	16.35	0.940	17.29	53.580	30 or 17+10log(B)= 29.18	PASS
140	5700	16.47	0.940	17.41	55.081	30 or 17+10log(B)= 29.18	PASS

802.11n_HT20_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	17.88	0.920	18.80	75.858	23.01 or 10+10log(B)= 22.50	PASS
44	5220	17.92	0.920	18.84	76.560	23.01 or 10+10log(B)= 22.48	PASS
48	5240	17.91	0.920	18.83	76.384	23.01 or 10+10log(B)= 22.50	PASS
52	5260	17.94	-0.260	17.68	58.614	30 or 17+10log(B)= 29.47	PASS
60	5300	17.91	-0.260	17.65	58.210	30 or 17+10log(B)= 29.50	PASS
64	5320	17.89	-0.260	17.63	57.943	30 or 17+10log(B)= 29.49	PASS
100	5500	16.45	0.940	17.39	54.828	30 or 17+10log(B)= 29.45	PASS
116	5580	16.48	0.940	17.42	55.208	30 or 17+10log(B)= 29.50	PASS
140	5700	15.42	0.940	16.36	43.251	30 or 17+10log(B)= 29.46	PASS

802.11n_HT40_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	17.95	0.920	18.87	77.090	23.01 or 10+10log(B)= 25.57	PASS
46	5230	17.94	0.920	18.86	76.913	23.01 or 10+10log(B)= 25.56	PASS
54	5270	17.84	-0.260	17.58	57.280	30 or 17+10log(B)= 32.59	PASS
62	5310	15.89	-0.260	15.63	36.559	30 or 17+10log(B)= 32.60	PASS
102	5510	16.41	0.940	17.35	54.325	30 or 17+10log(B)= 32.58	PASS
110	5550	16.46	0.940	17.40	54.954	30 or 17+10log(B)= 32.53	PASS
134	5670	16.45	0.940	17.39	54.828	30 or 17+10log(B)= 32.56	PASS

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802.11ac_VHT80_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
42	5210	17.91	0.920	18.83	76.384	23.01	or $10+10\log(B)=$	28.77	PASS
58	5290	14.39	-0.260	14.13	25.882	30	or $17+10\log(B)=$	35.76	PASS
106	5530	16.48	0.940	17.42	55.208	30	or $17+10\log(B)=$	35.75	PASS

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802.11a_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	17.78	3.930	21.71	148.363	23.01 or 10+10log(B)= 22.13	PASS
44	5220	17.82	3.930	21.75	149.734	23.01 or 10+10log(B)= 22.20	PASS
48	5240	17.85	3.930	21.78	150.576	23.01 or 10+10log(B)= 22.15	PASS
52	5260	17.83	2.750	20.58	114.255	30 or 17+10log(B)= 29.16	PASS
60	5300	17.84	2.750	20.59	114.654	30 or 17+10log(B)= 29.21	PASS
64	5320	17.75	2.750	20.50	112.318	30 or 17+10log(B)= 29.14	PASS
100	5500	16.22	1.700	17.92	61.943	30 or 17+10log(B)= 29.11	PASS
116	5580	16.29	1.700	17.99	63.007	30 or 17+10log(B)= 29.18	PASS
140	5700	16.41	1.700	18.11	64.748	30 or 17+10log(B)= 29.16	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	17.80	3.930	21.73	148.959	23.01 or 10+10log(B)= 22.47	PASS
44	5220	17.81	3.930	21.74	149.336	23.01 or 10+10log(B)= 22.47	PASS
48	5240	17.86	3.930	21.79	151.069	23.01 or 10+10log(B)= 22.49	PASS
52	5260	17.86	2.750	20.61	115.121	30 or 17+10log(B)= 29.46	PASS
60	5300	17.81	2.750	20.56	113.689	30 or 17+10log(B)= 29.47	PASS
64	5320	17.77	2.750	20.52	112.755	30 or 17+10log(B)= 29.47	PASS
100	5500	16.37	1.700	18.07	64.156	30 or 17+10log(B)= 29.45	PASS
116	5580	16.41	1.700	18.11	64.730	30 or 17+10log(B)= 29.46	PASS
140	5700	15.27	1.700	16.97	49.830	30 or 17+10log(B)= 29.46	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	17.91	3.930	21.84	152.651	23.01 or 10+10log(B)= 25.57	PASS
46	5230	17.89	3.930	21.82	151.950	23.01 or 10+10log(B)= 25.56	PASS
54	5270	17.81	2.750	20.56	113.887	30 or 17+10log(B)= 32.59	PASS
62	5310	15.74	2.750	18.49	70.581	30 or 17+10log(B)= 32.59	PASS
102	5510	16.36	1.700	18.06	64.013	30 or 17+10log(B)= 32.58	PASS
110	5550	16.42	1.700	18.12	64.876	30 or 17+10log(B)= 32.53	PASS
134	5670	16.32	1.700	18.02	63.383	30 or 17+10log(B)= 32.56	PASS

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802.11ac_VHT80_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)		REQUIRED LIMIT (dBm)	RESULT
42	5210	17.71	3.930	21.64	145.794	23.01 or $10+10\log(B)=$ 28.77	PASS
58	5290	14.28	2.750	17.03	50.421	30 or $17+10\log(B)=$ 35.73	PASS
106	5530	16.39	1.700	18.09	64.414	30 or $17+10\log(B)=$ 35.75	PASS

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10. PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY	LIMIT
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U-NII-1

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10.2 Measurement Procedure

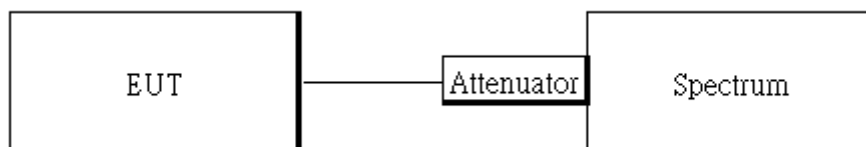
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz,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

10.3 Measurement Equipment Used

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017

10.4 Test Set-up



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10.5 Measurement Result

SISO Mode

POWER DENSITY 802.11a MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	7.21	11	-3.79
5220	5.66	11	-5.34
5240	5.05	11	-5.95
5260	6.09	11	-4.91
5300	3.98	11	-7.02
5320	5.48	11	-5.52
5500	5.62	11	-5.38
5580	3.82	11	-7.18
5700	1.40	11	-9.60
5745	13.10	30	-16.90
5785	12.65	30	-17.35
5825	12.73	30	-17.27

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	7.28	11	-3.72
5220	6.61	11	-4.39
5240	5.95	11	-5.05
5260	6.51	11	-4.49
5300	6.57	11	-4.43
5320	4.76	11	-6.24
5500	4.08	11	-6.92
5580	6.47	11	-4.53
5700	0.44	11	-10.56
5745	12.48	30	-17.52
5785	12.48	30	-17.52
5825	12.44	30	-17.56

POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-0.69	11	-11.69
5230	-1.6	11	-12.60
5270	-2.81	11	-13.81
5310	-5.21	11	-16.21
5510	0.26	11	-10.74
5550	-3.74	11	-14.74
5670	-1.92	11	-12.92
5755	10.17	30	-19.83
5795	9.77	30	-20.23

POWER DENSITY 802.11ac VHT80 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5210	-3.03	11	-14.03
5290	-7.75	11	-18.75
5530	-7.01	11	-18.01
5610	-4.51	11	-15.51
5775	8.04	30	-21.96

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MIMO Mode

POWER DENSITY 802.11a MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	3.88	11	-7.12
5220	3.61	11	-7.39
5240	4.77	11	-6.23
5260	5.66	11	-5.34
5300	2.59	11	-8.41
5320	5.13	11	-5.87
5500	2.35	11	-8.65
5580	2.35	11	-8.65
5700	0.00	11	-11.00
5745	10.94	30	-19.06
5785	10.62	30	-19.38
5825	10.39	30	-19.61

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	1.18	11	-9.82
5220	1.18	11	-9.82
5240	-1.73	11	-12.73
5260	1.74	11	-9.26
5300	-1.76	11	-12.76
5320	0.54	11	-10.46
5500	-2.27	11	-13.27
5580	-3.31	11	-14.31
5700	-3.81	11	-14.81
5745	11.15	30	-18.85
5785	11.29	30	-18.71
5825	11.45	30	-18.55

POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-3.46	11	-14.46
5230	-2.79	11	-13.79
5270	-4.51	11	-15.51
5310	-5.59	11	-16.59
5510	-2.11	11	-13.11
5550	-4.59	11	-15.59
5670	-4.56	11	-15.56
5755	8.07	30	-21.93
5795	7.81	30	-22.19

POWER DENSITY 802.11ac VHT80 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5210	-4.51	11	-15.51
5290	-9.27	11	-20.27
5530	-7.47	11	-18.47
5610	-5.84	11	-16.84
5775	5.63	30	-24.37

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EIRP Power Density
SISO Mode

EIRP spectral density 802.11a MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	7.21	0.92	8.13	10	-2.79
5220	5.66	0.92	6.58	10	-4.34
5240	5.05	0.92	5.97	10	-4.95

EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	7.28	0.92	8.20	10	-2.72
5220	6.61	0.92	7.53	10	-3.39
5240	5.95	0.92	6.87	10	-4.05

EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-0.69	0.92	0.23	10	-10.69
5220	-1.60	0.92	-0.68	10	-11.60

EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-3.03	0.92	-2.11	10	-13.03

MIMO Mode

EIRP spectral density 802.11a MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	3.88	3.93	7.81	10	-6.12
5220	3.61	3.93	7.54	10	-6.39
5240	4.77	3.93	8.70	10	-5.23

EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	1.18	3.93	5.11	10	-8.82
5220	1.18	3.93	5.11	10	-8.82
5240	-1.73	3.93	2.20	10	-11.73

EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-3.46	3.93	0.47	10	-13.46
5220	-2.79	3.93	1.14	10	-12.79

EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-4.51	3.93	-0.58	10	-14.51

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802.11a 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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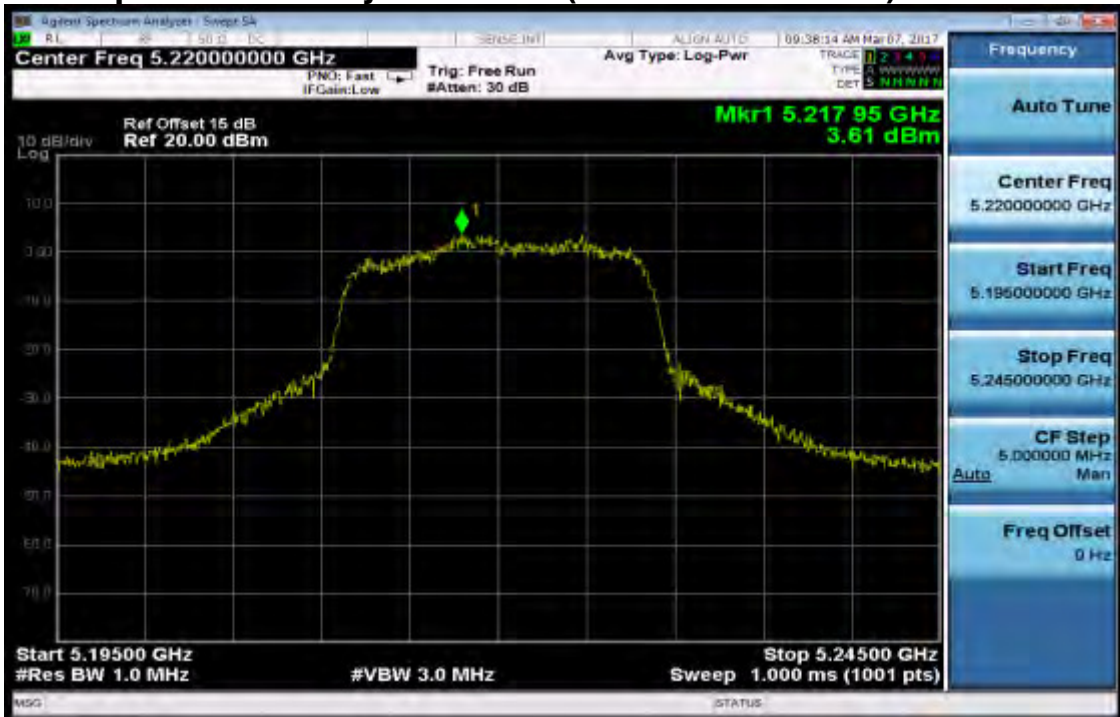
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802.11a 5150~5250 MHz (MIMO)
Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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802.11a 5250~5350 MHz
Peak Power Spectral Density Data Plot (CH Low 5260 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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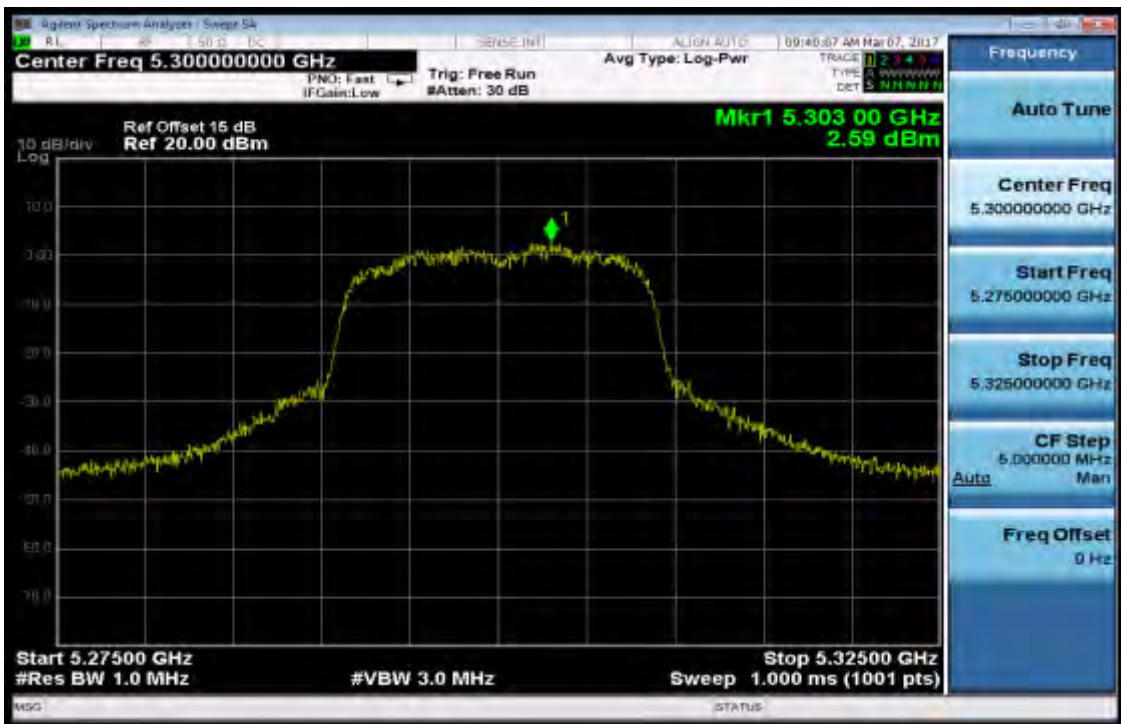
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802.11a 5250~5350 MHz (MIMO)
Peak Power Spectral Density Data Plot (CH Low 5260 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)

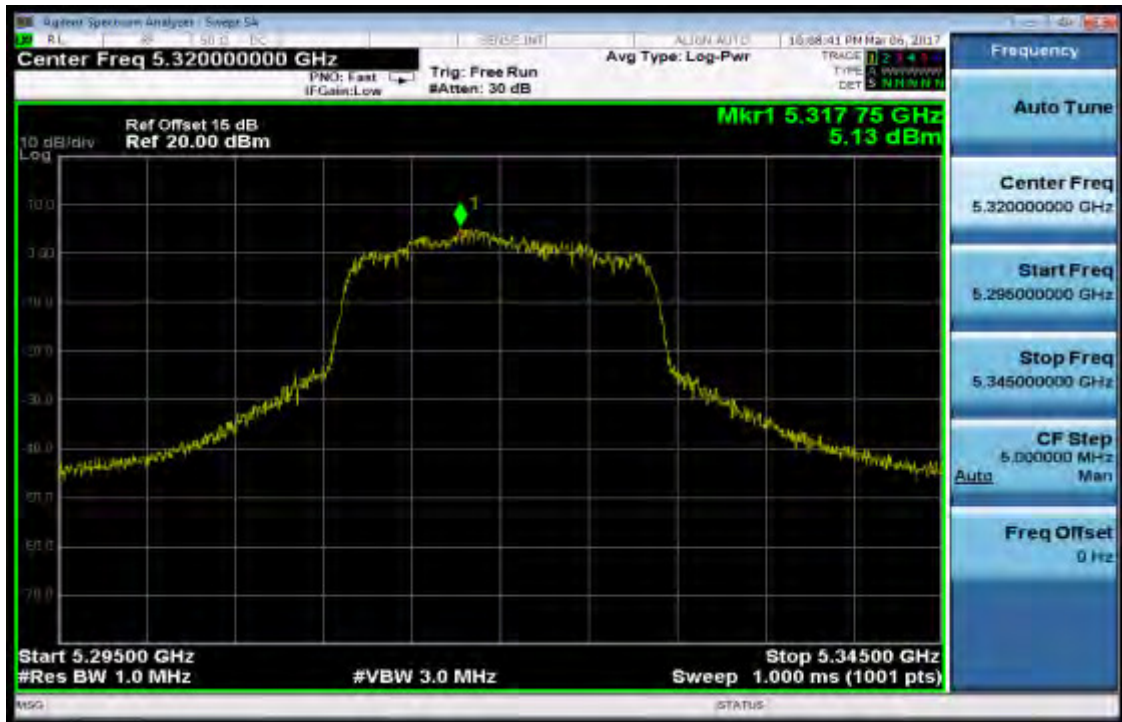


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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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Member of SGS Group

802.11a 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5580 MHz)



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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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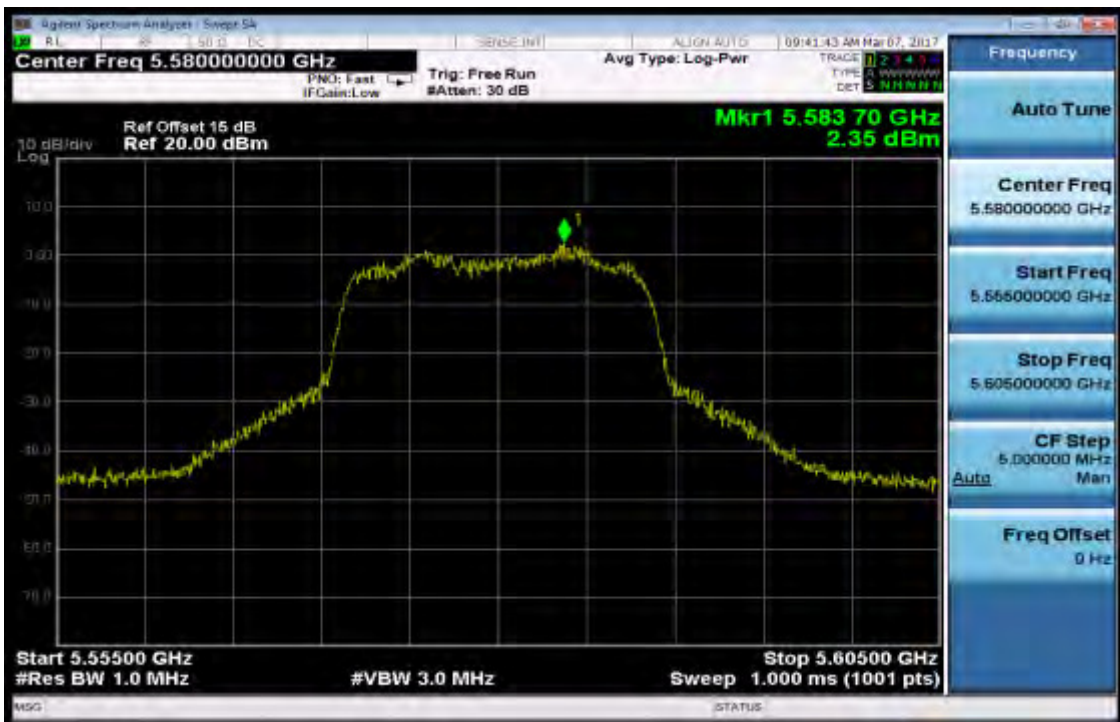
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Member of SGS Group

802.11a 5470~5725 MHz (MIMO)
Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5580 MHz)



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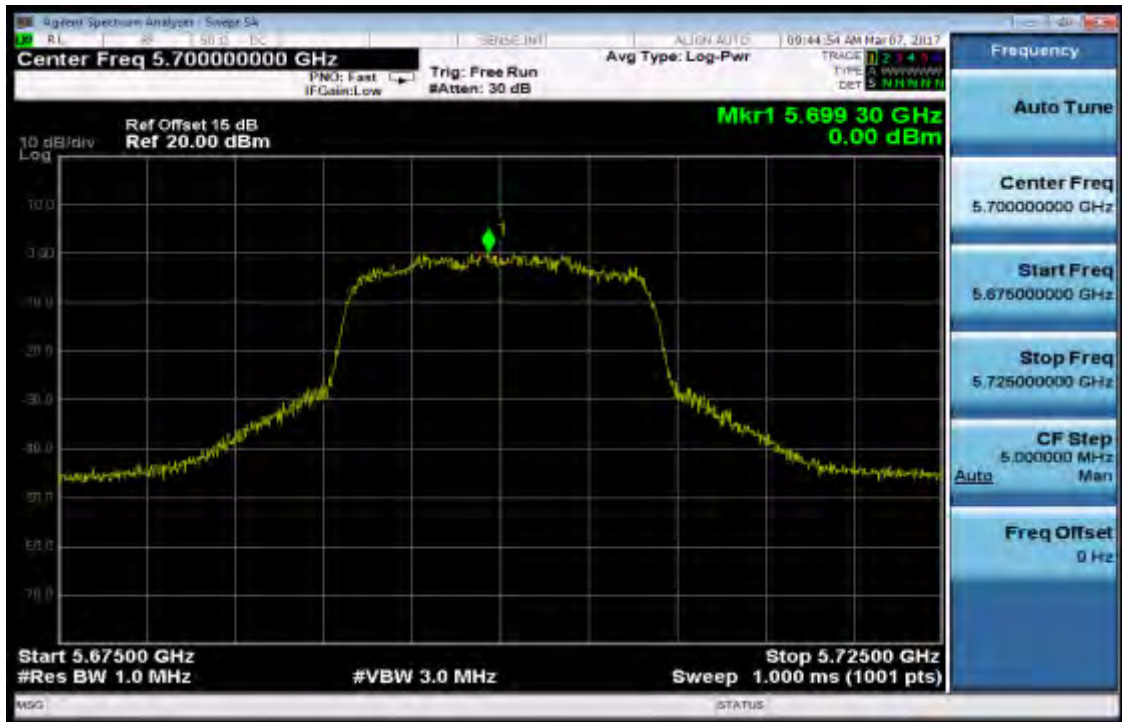
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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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802.11a 5725~5850 MHz
Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



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Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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802.11a 5725~5850 MHz (MIMO)
Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



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Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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802.11n HT20, 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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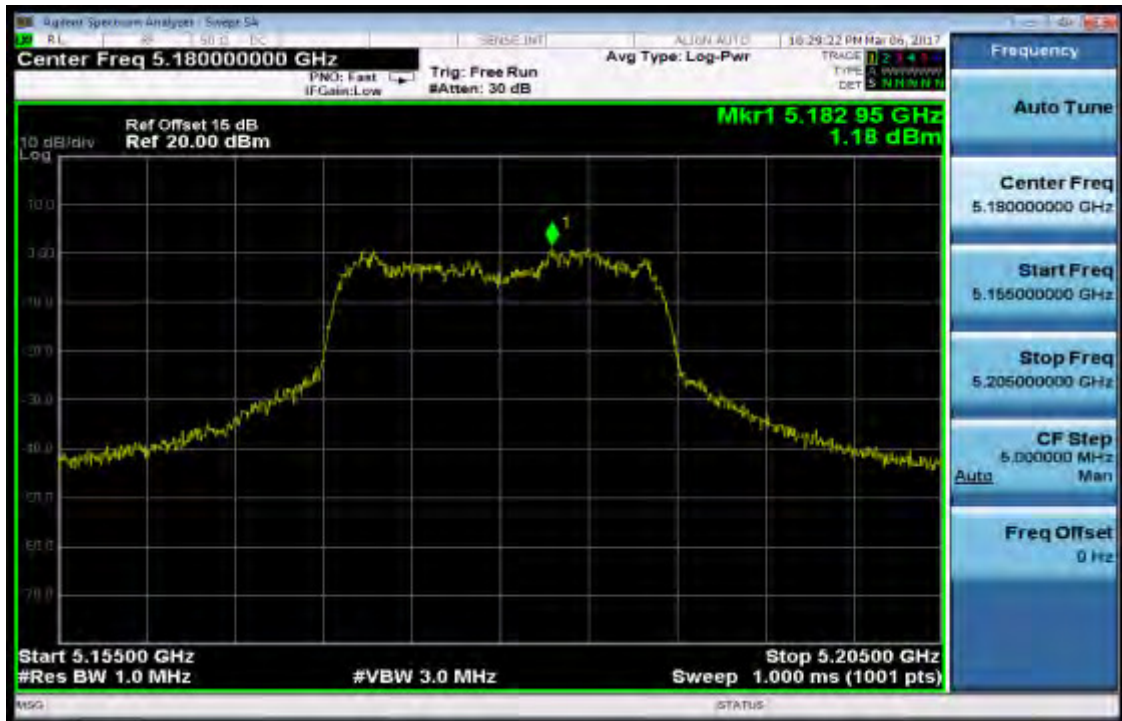
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**802.11n HT20, 5150~5250 MHz (MIMO)
Peak Power Spectral Density Data Plot (CH Low 5180 MHz)**



Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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802.11n HT20, 5250~5350 MHz
Peak Power Spectral Density Data Plot (CH Low 5260MHz)



Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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**802.11n HT20, 5250~5350 MHz (MIMO)
Peak Power Spectral Density Data Plot (CH Low 5260MHz)**



Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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802.11n HT20, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



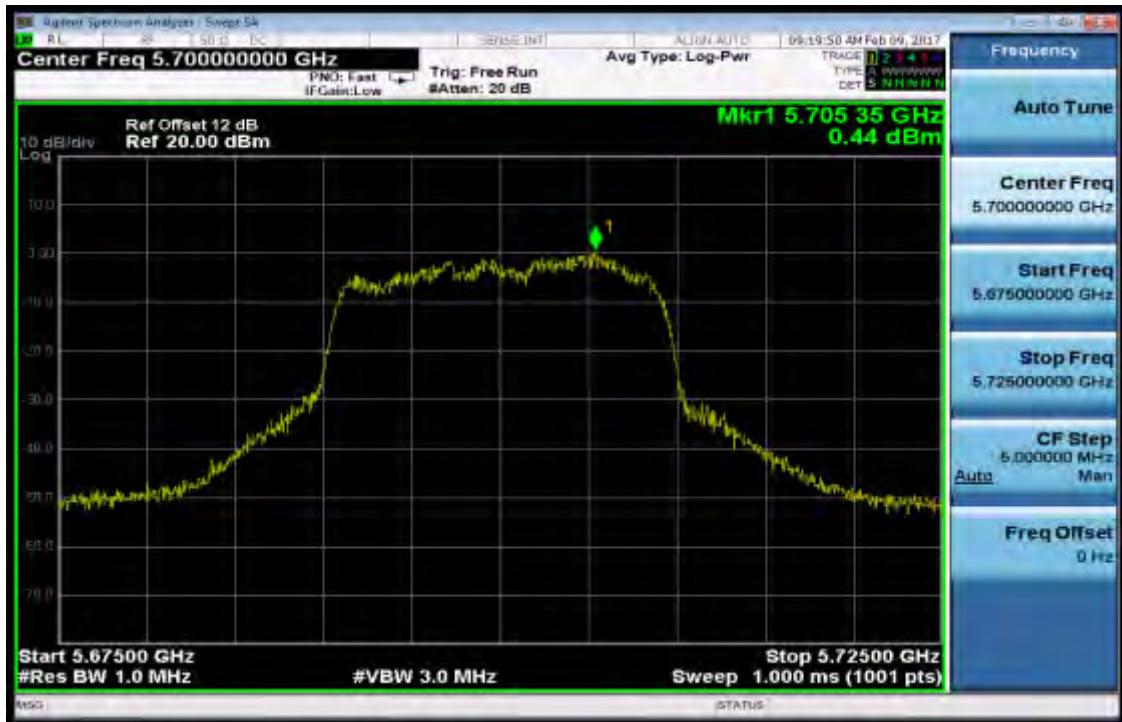
Peak Power Spectral Density Data Plot (CH Mid 5580MHz)



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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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802.11n HT20, 5470~5725 MHz (MIMO)
Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5580MHz)



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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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**802.11n HT20, 5725~5850 MHz
Peak Power Spectral Density Data Plot (CH Low 5745 MHz)**



Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



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Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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**802.11n HT20, 5725~5850 MHz (MIMO)
Peak Power Spectral Density Data Plot (CH Low 5745 MHz)**



Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



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Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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802.11n HT40, 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Low 5190 MHz)



Peak Power Spectral Density Data Plot (CH High 5230 MHz)



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**802.11n HT40, 5150~5250 MHz (MIMO)
Peak Power Spectral Density Data Plot (CH Low 5190 MHz)**



Peak Power Spectral Density Data Plot (CH High 5230 MHz)



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802.11n HT40, 5250~5350 MHz Peak Power Spectral Density Data Plot (CH Low 5270 MHz)



Peak Power Spectral Density Data Plot (CH High 5310 MHz)



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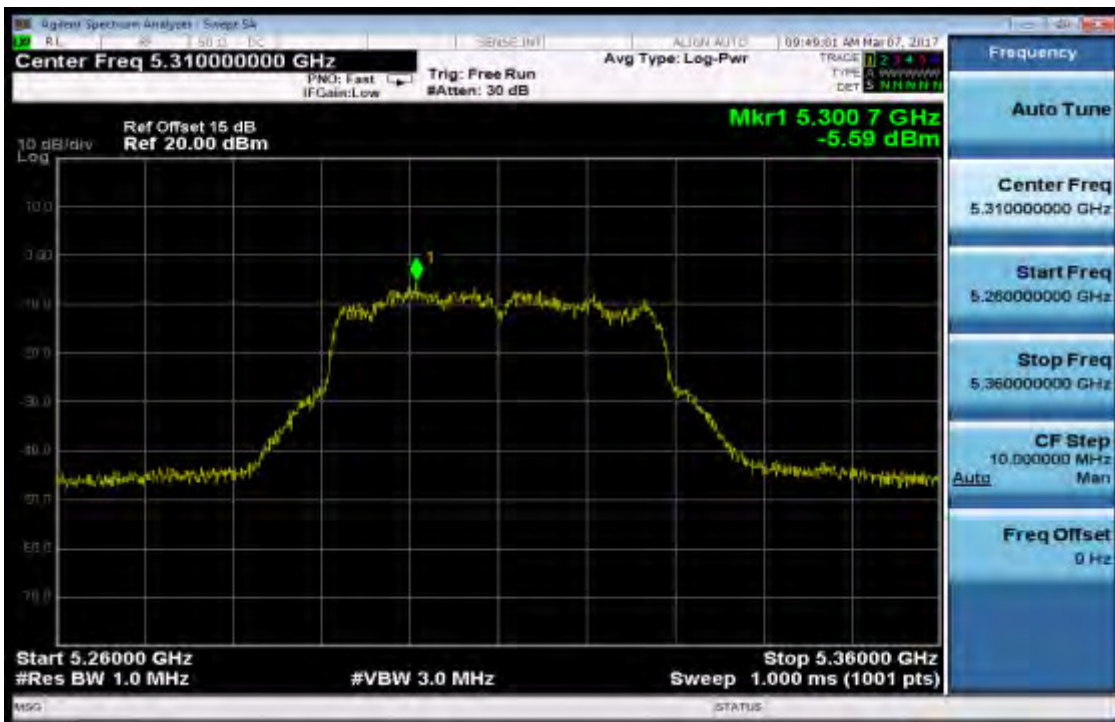
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**802.11n HT40, 5250~5350 MHz (MIMO)
Peak Power Spectral Density Data Plot (CH Low 5270 MHz)**



Peak Power Spectral Density Data Plot (CH High 5310 MHz)



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Peak Power Spectral Density Data Plot (CH Low 5510 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5550 MHz)



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Peak Power Spectral Density Data Plot (CH High 5670 MHz)



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**802.11n HT40, 5470~5725 MHz (MIMO)
Peak Power Spectral Density Data Plot (CH Low 5510 MHz)**



Peak Power Spectral Density Data Plot (CH Mid 5550 MHz)



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Peak Power Spectral Density Data Plot (CH High 5670 MHz)



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802.11n HT40, 5725~5850 MHz
Peak Power Spectral Density Data Plot (CH Low 5755 MHz)



Peak Power Spectral Density Data Plot (CH High 5795 MHz)



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**802.11n HT40, 5725~5850 MHz (MIMO)
Peak Power Spectral Density Data Plot (CH Low 5755 MHz)**



Peak Power Spectral Density Data Plot (CH High 5795 MHz)



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**802.11ac VHT80, 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Mid 5210 MHz)**



**802.11ac VHT80, 5150~5250 MHz (MIMO)
Peak Power Spectral Density Data Plot (CH Mid 5210 MHz)**



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802.11ac VHT80, 5250~5350 MHz
Peak Power Spectral Density Data Plot (CH Mid 5290 MHz)



802.11ac VHT80, 5250~5350 MHz (MIMO)
Peak Power Spectral Density Data Plot (CH Mid 5290 MHz)



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802.11ac VHT80, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5530 MHz)



Peak Power Spectral Density Data Plot (CH High 5610 MHz)



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**802.11ac VHT80, 5470~5725 MHz (MIMO)
Peak Power Spectral Density Data Plot (CH Low 5530 MHz)**



Peak Power Spectral Density Data Plot (CH High 5610 MHz)



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802.11ac VHT80, 5725~5850 MHz
Peak Power Spectral Density Data Plot (CH Mid 5775 MHz)



802.11ac VHT80, 5725~5850 MHz (MIMO)
Peak Power Spectral Density Data Plot (CH Mid 5775 MHz)



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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)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)(i)	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
RSS-247 6.2.4 (2)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
	PK: -17 (dBm/MHz)	PK: 78.2 (dBμV/m)
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

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

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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 (dB μ V/m) = 20 log Emission level (dB μ V/m)

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11.2 Measurement Equipment Used

SGS 966 Chamber No.C					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESU 40	100363	04/12/2016	04/11/2017
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2016	12/22/2017
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2016	11/02/2017
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2016	12/16/2017
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2016	07/23/2017
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-18	10204	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF27	12/12/2016	12/11/2017
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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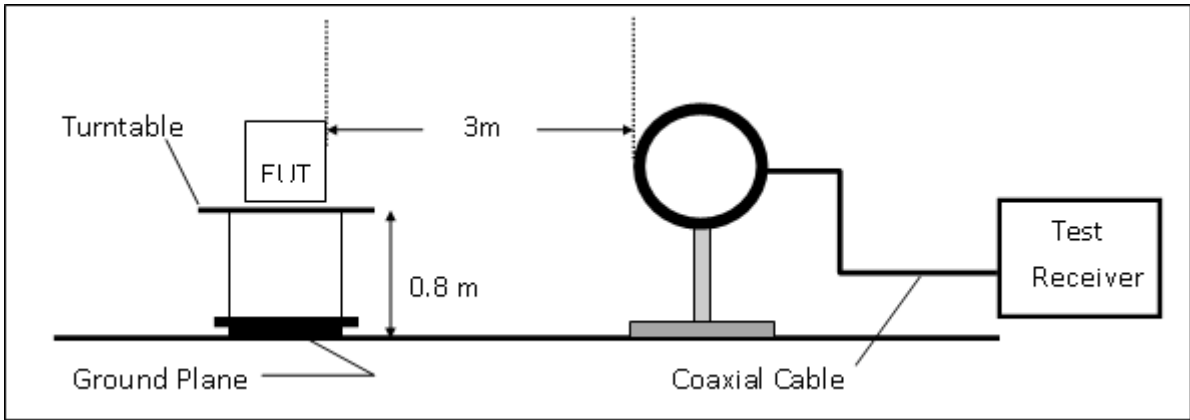
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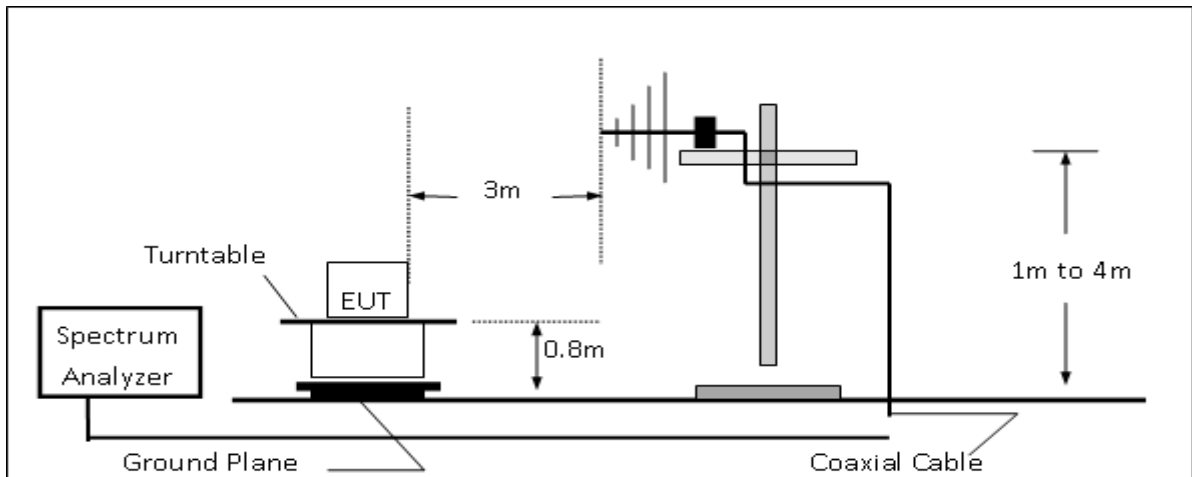
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11.3 Test SET-UP

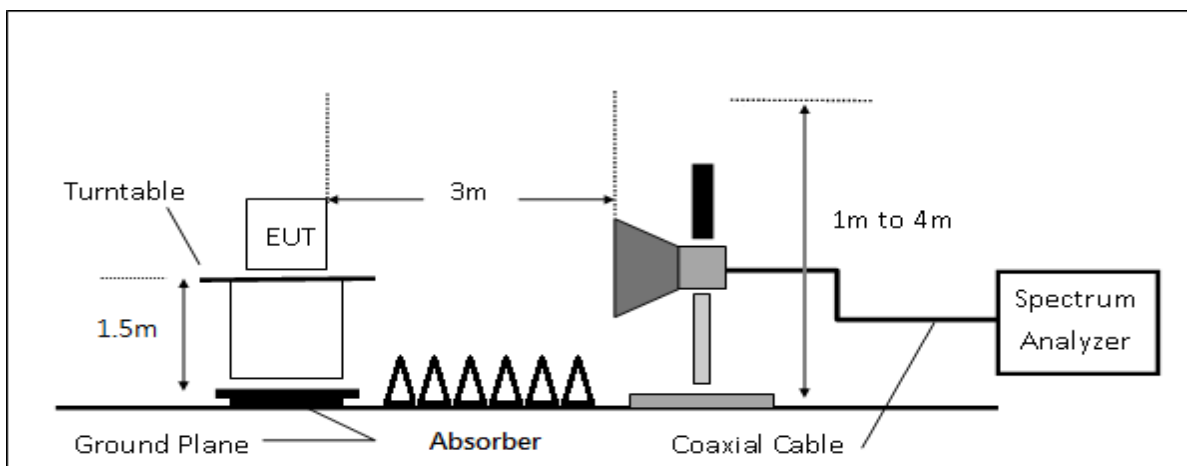
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

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

$$\text{Actual FS(dB}\mu\text{V/m)} = \text{SPA. Reading level(dB}\mu\text{V)} + \text{Factor(dB)}$$

$$\text{Factor(dB)} = \text{Antenna Factor(dB}\mu\text{V/m)} + \text{Cable Loss(dB)} - \text{Pre_Amplifier Gain(dB)}$$

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Note :

“**F**” : denotes Fundamental Frequency. ; “**H**” : denotes Harmonic Frequency.

“**E**” : denotes Band Edge Frequency. ; “**S**” : denotes Spurious Frequency.

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

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

11.7 Measurement Result

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

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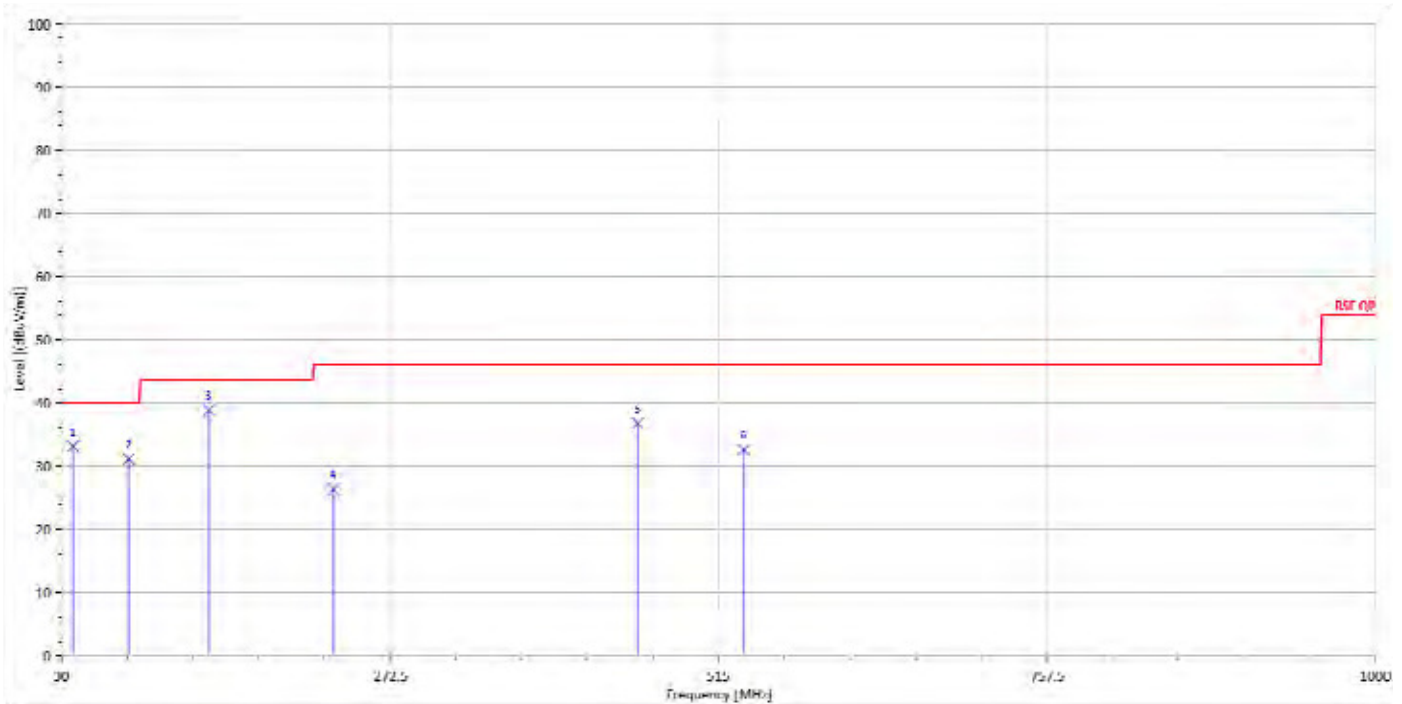
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Mode :	802.11a	Test Date :	2017/1/25
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
38.73	S	Peak	45.13	-12.04	33.09	40	-6.91
79.47	S	Peak	52.12	-21.01	31.11	40	-8.89
138.64	S	Peak	54.82	-15.97	38.86	43.5	-4.64
230.79	S	Peak	42.51	-16.17	26.34	46	-19.66
455.83	S	Peak	45.21	-8.43	36.78	46	-9.22
533.43	S	Peak	39.63	-7.09	32.55	46	-13.45

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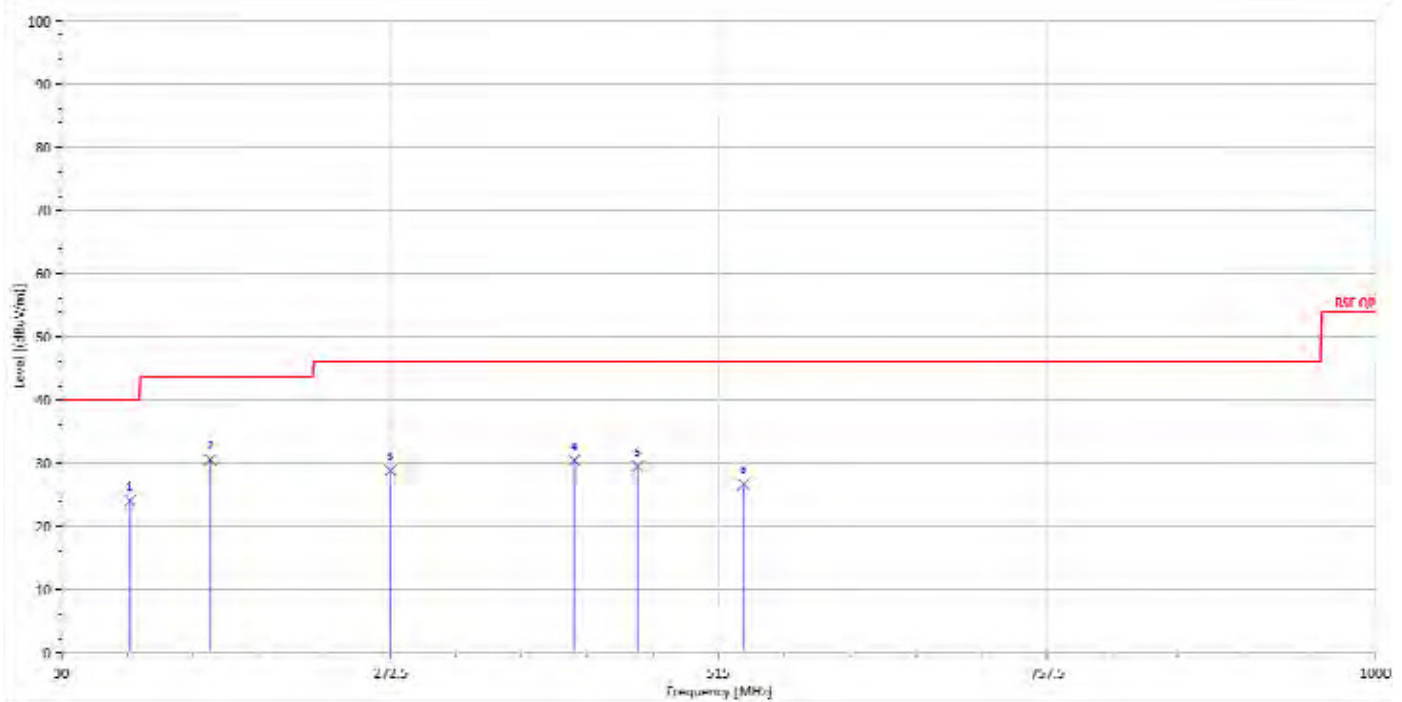
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Operation Mode : 802.11a Test Date : 2017/1/25
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
80.44	S	Peak	44.95	-20.88	24.07	40	-15.93
139.61	S	Peak	46.51	-16.02	30.49	43.5	-13.01
272.50	S	Peak	42.65	-13.88	28.77	46	-17.23
408.30	S	Peak	39.61	-9.25	30.36	46	-15.64
455.83	S	Peak	37.86	-8.43	29.42	46	-16.58
533.43	S	Peak	33.70	-7.09	26.62	46	-19.38

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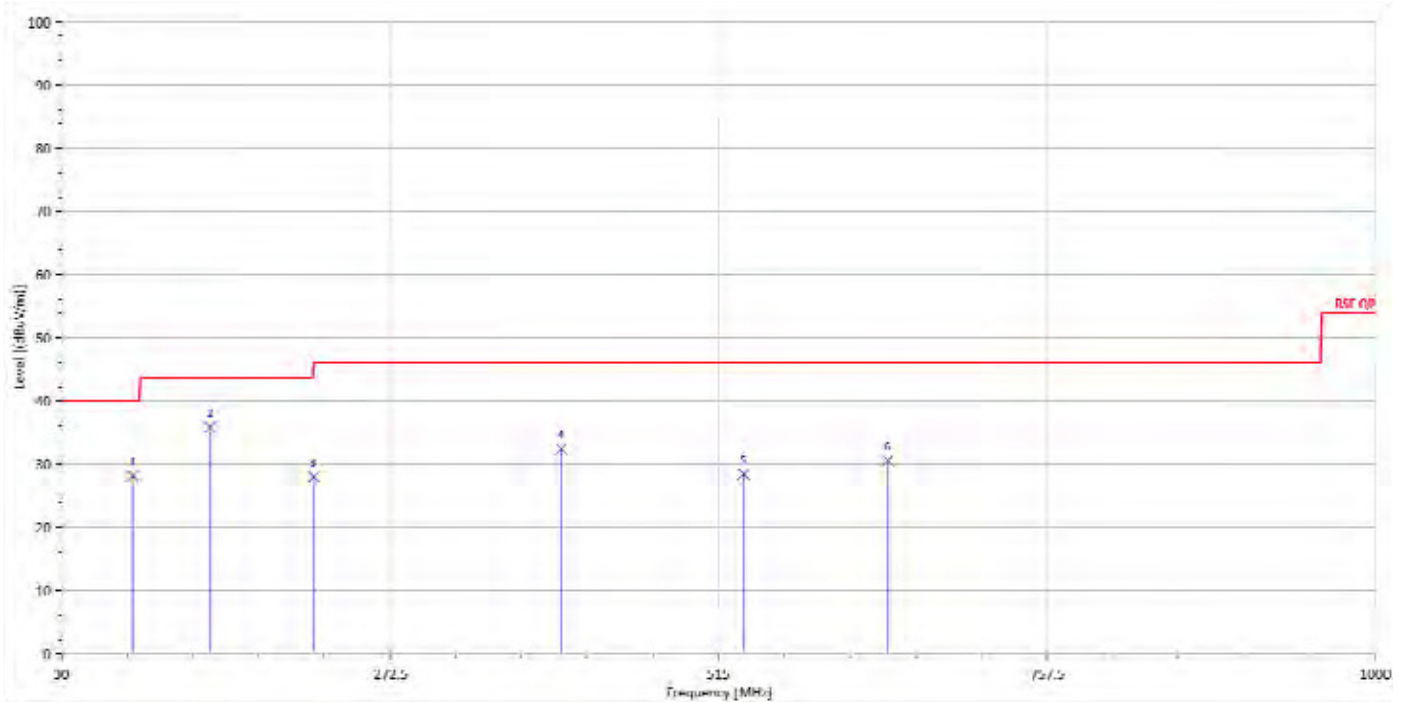
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802.11a 5250~5350 MHz

Operation Mode :	802.11a	Test Date :	2017/1/25
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
82.38	S	Peak	48.71	-20.61	28.09	40	-11.91
139.61	S	Peak	51.88	-16.02	35.86	43.5	-7.64
216.24	S	Peak	45.06	-17.15	27.91	46	-18.09
398.60	S	Peak	42.10	-9.75	32.35	46	-13.65
533.43	S	Peak	35.42	-7.09	28.33	46	-17.67
640.13	S	Peak	35.91	-5.37	30.54	46	-15.46

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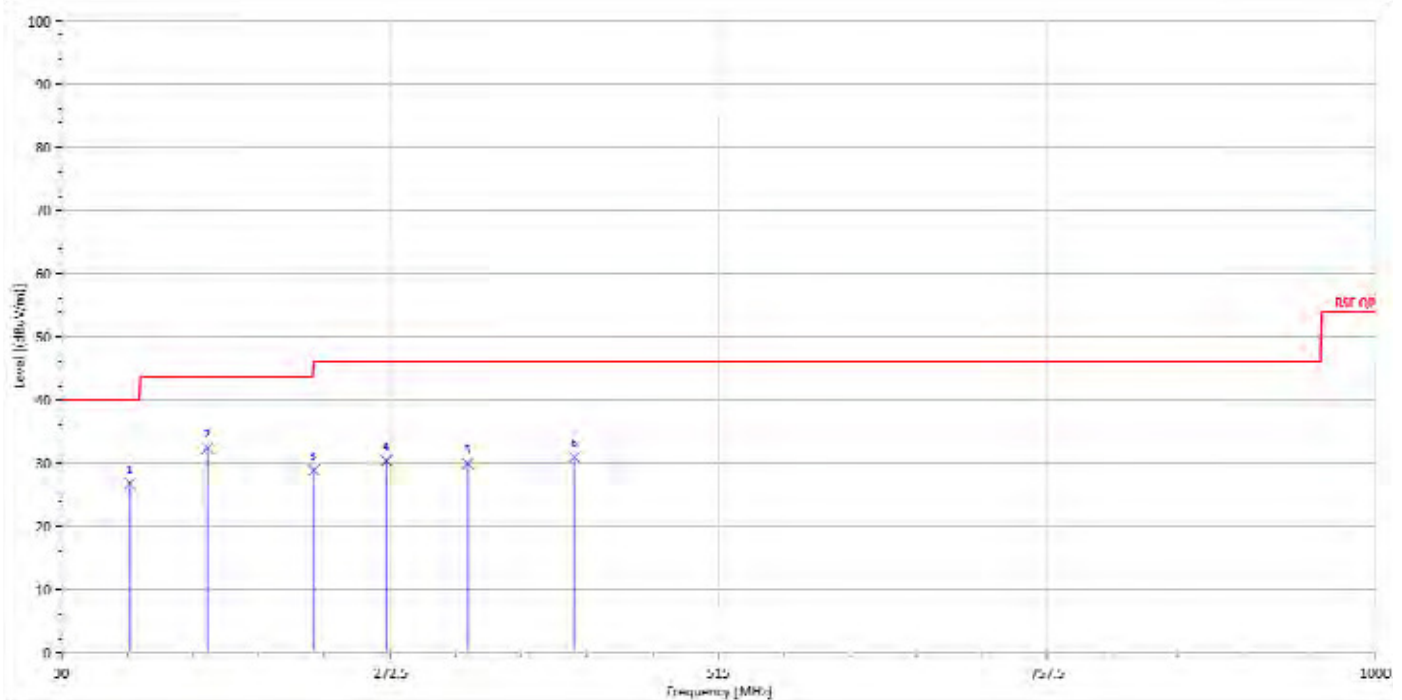
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Operation Mode : 802.11a Test Date : 2017/1/25
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
80.44	S	Peak	47.60	-20.88	26.72	40	-13.28
137.67	S	Peak	48.32	-15.94	32.38	43.5	-11.12
216.24	S	Peak	45.97	-17.15	28.82	46	-17.18
269.59	S	Peak	44.22	-13.90	30.32	46	-15.68
329.73	S	Peak	42.05	-12.17	29.87	46	-16.13
408.30	S	Peak	40.16	-9.25	30.91	46	-15.09

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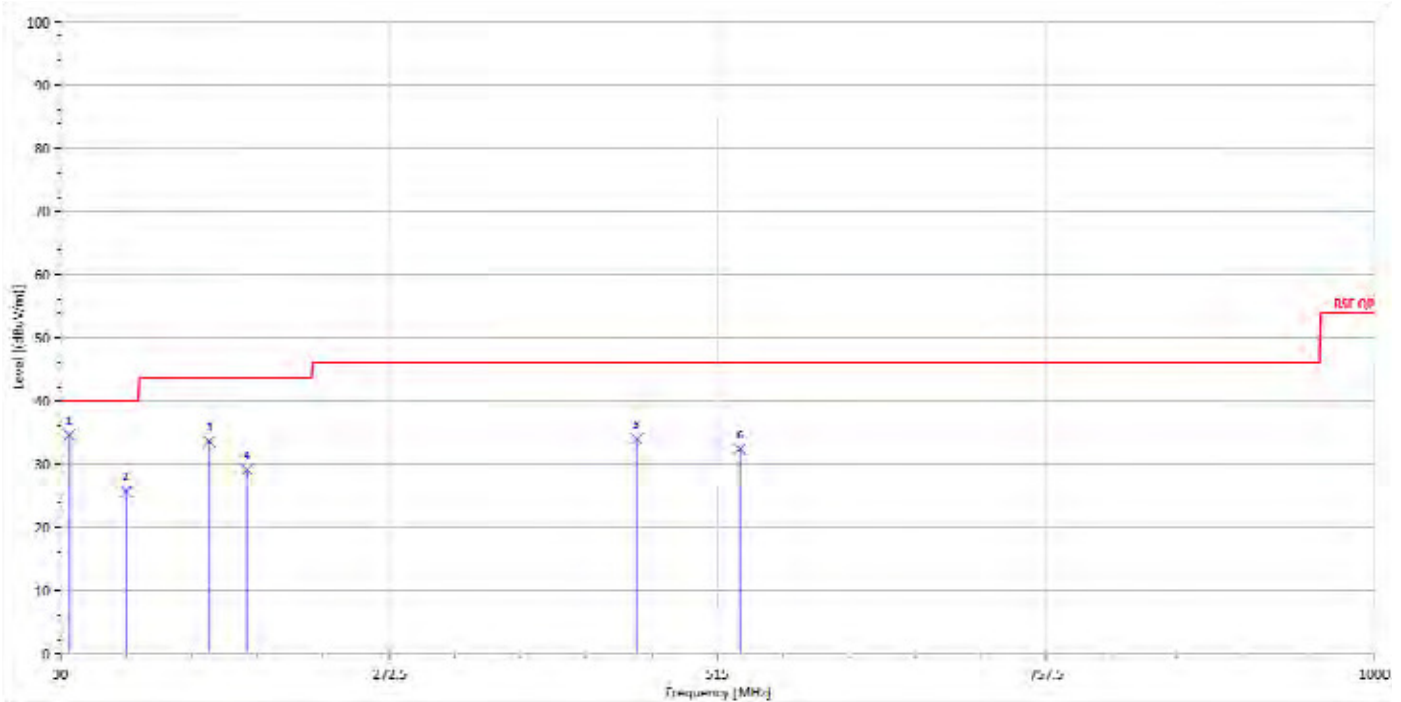
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802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2017/1/25
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
36.79	S	Peak	45.51	-10.93	34.58	40	-5.42
78.50	S	Peak	46.78	-21.10	25.68	40	-14.32
139.61	S	Peak	49.59	-16.02	33.57	43.5	-9.93
167.74	S	Peak	47.11	-18.06	29.06	43.5	-14.44
455.83	S	Peak	42.45	-8.43	34.02	46	-11.98
531.49	S	Peak	39.60	-7.22	32.39	46	-13.61

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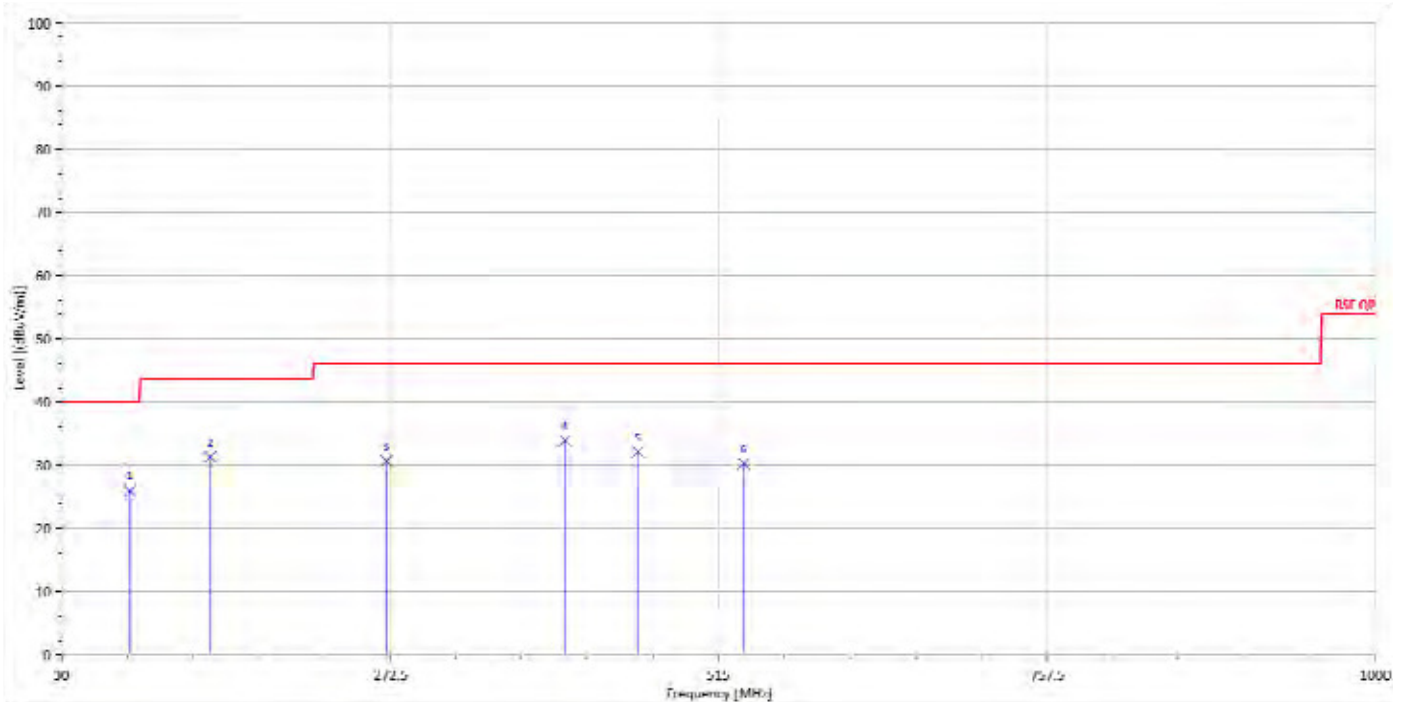
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Operation Mode : 802.11a Test Date : 2017/1/25
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
80.44	S	Peak	46.87	-20.88	25.98	40	-14.02
139.61	S	Peak	47.29	-16.02	31.27	43.5	-12.23
269.59	S	Peak	44.51	-13.90	30.61	46	-15.39
401.51	S	Peak	43.66	-9.81	33.85	46	-12.15
455.83	S	Peak	40.50	-8.43	32.06	46	-13.94
533.43	S	Peak	37.24	-7.09	30.15	46	-15.85

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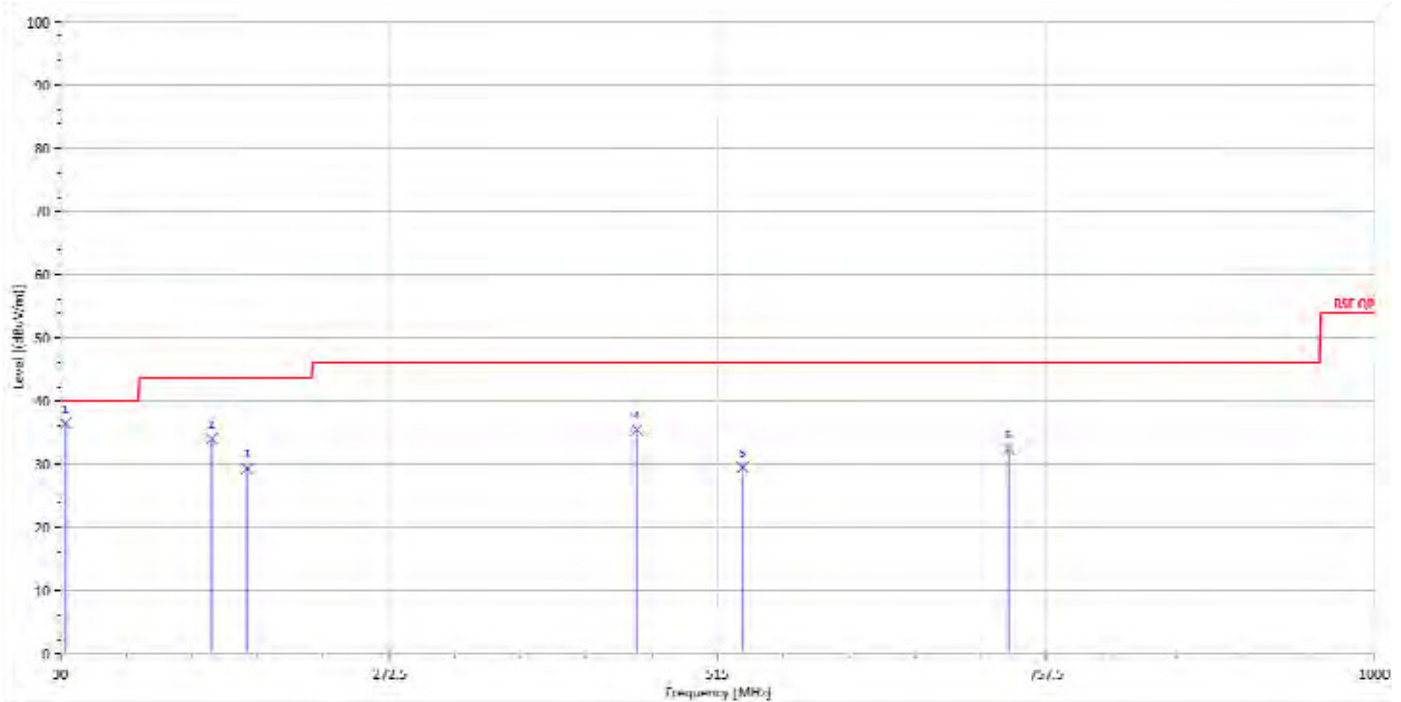
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802.11a, 5725~5850 MHz

Operation Mode :	802.11a	Test Date :	2017/1/25
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
33.88	S	Peak	45.73	-9.27	36.45	40	-3.55
141.55	S	Peak	50.23	-16.25	33.98	43.5	-9.52
167.74	S	Peak	47.26	-18.06	29.21	43.5	-14.29
455.83	S	Peak	43.86	-8.43	35.42	46	-10.58
533.43	S	Peak	36.51	-7.09	29.42	46	-16.58
730.34	S	Peak	37.05	-4.67	32.38	46	-13.62

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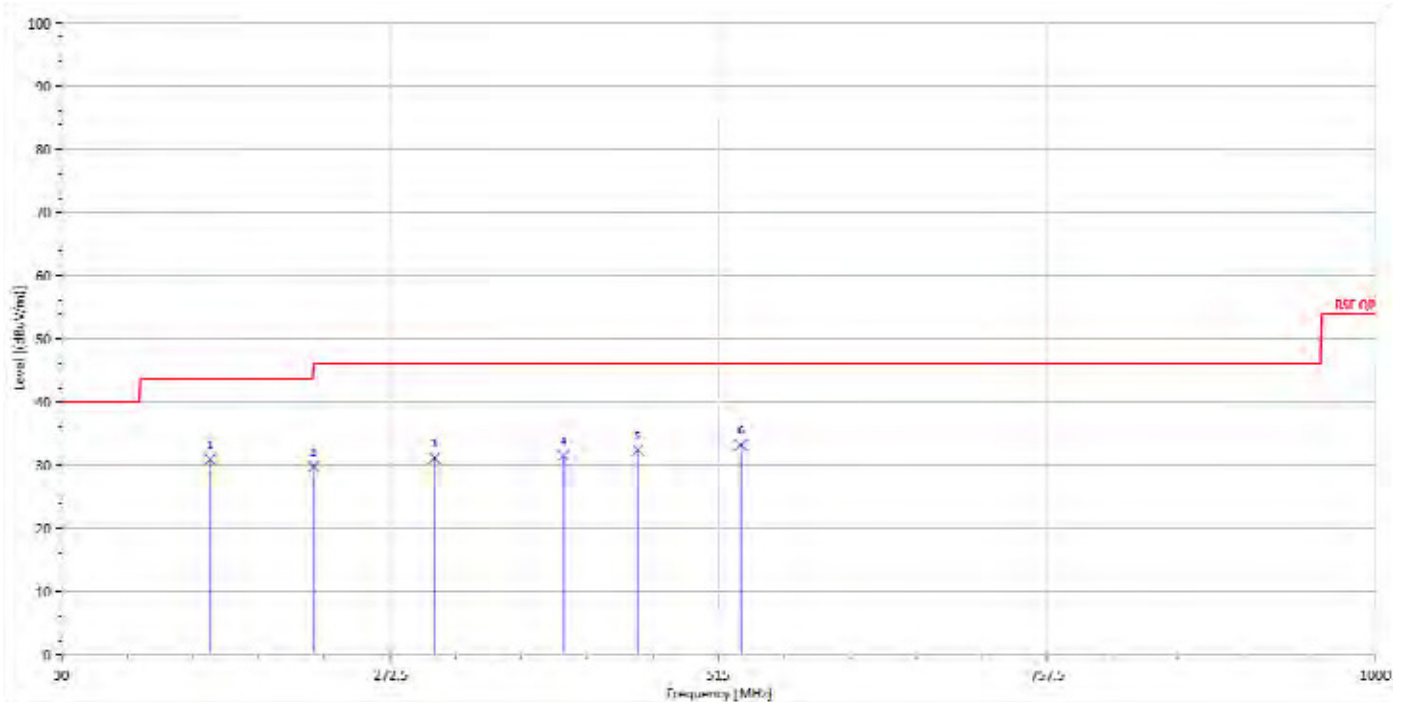
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Operation Mode : 802.11a Test Date : 2017/1/25
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
139.61	S	Peak	46.90	-16.02	30.88	43.5	-12.62
216.24	S	Peak	46.91	-17.15	29.76	46	-16.24
305.48	S	Peak	43.95	-12.86	31.09	46	-14.91
400.54	S	Peak	41.27	-9.76	31.50	46	-14.50
455.83	S	Peak	40.78	-8.43	32.34	46	-13.66
531.49	S	Peak	40.38	-7.22	33.16	46	-12.84

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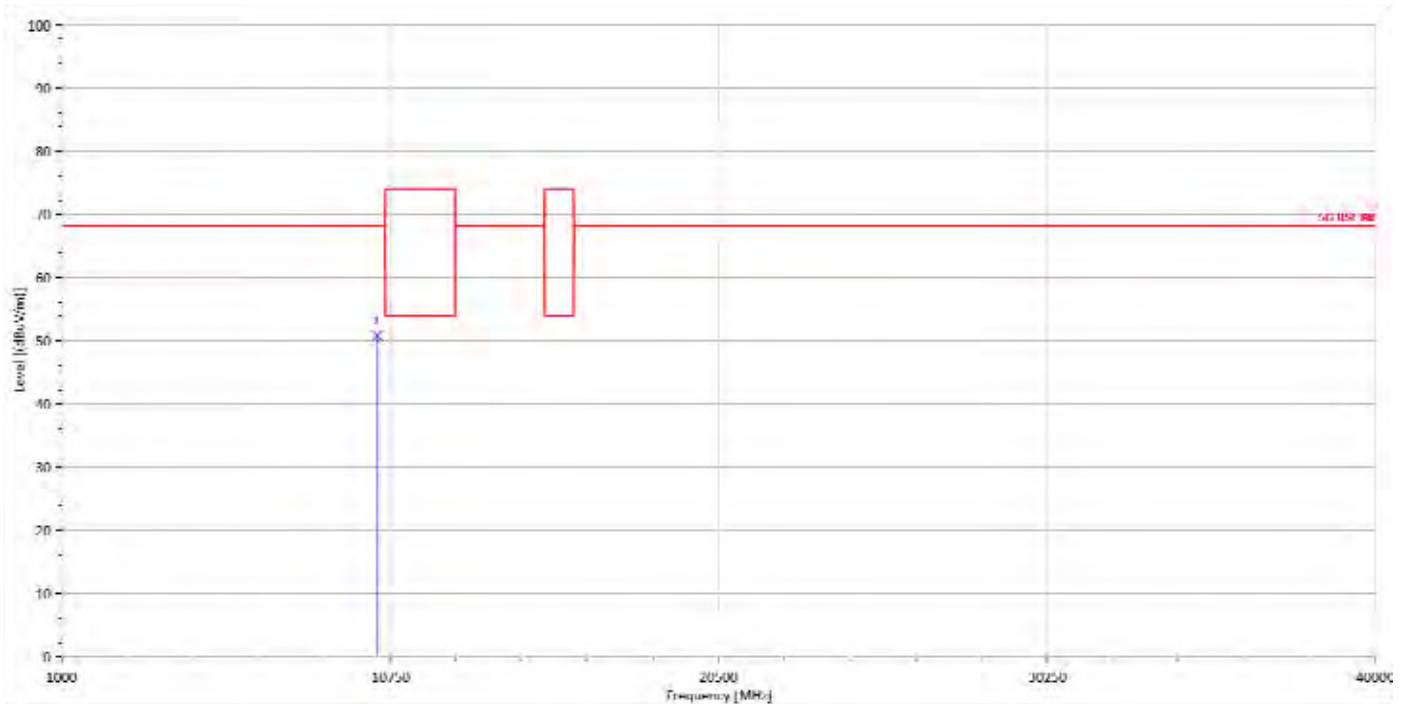
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Above 1GHz Worst-Case Data:

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

Operation Mode :	802.11a	Test Date :	2017/2/8
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	H	Peak	30.64	20.18	50.82	68.3	-17.48

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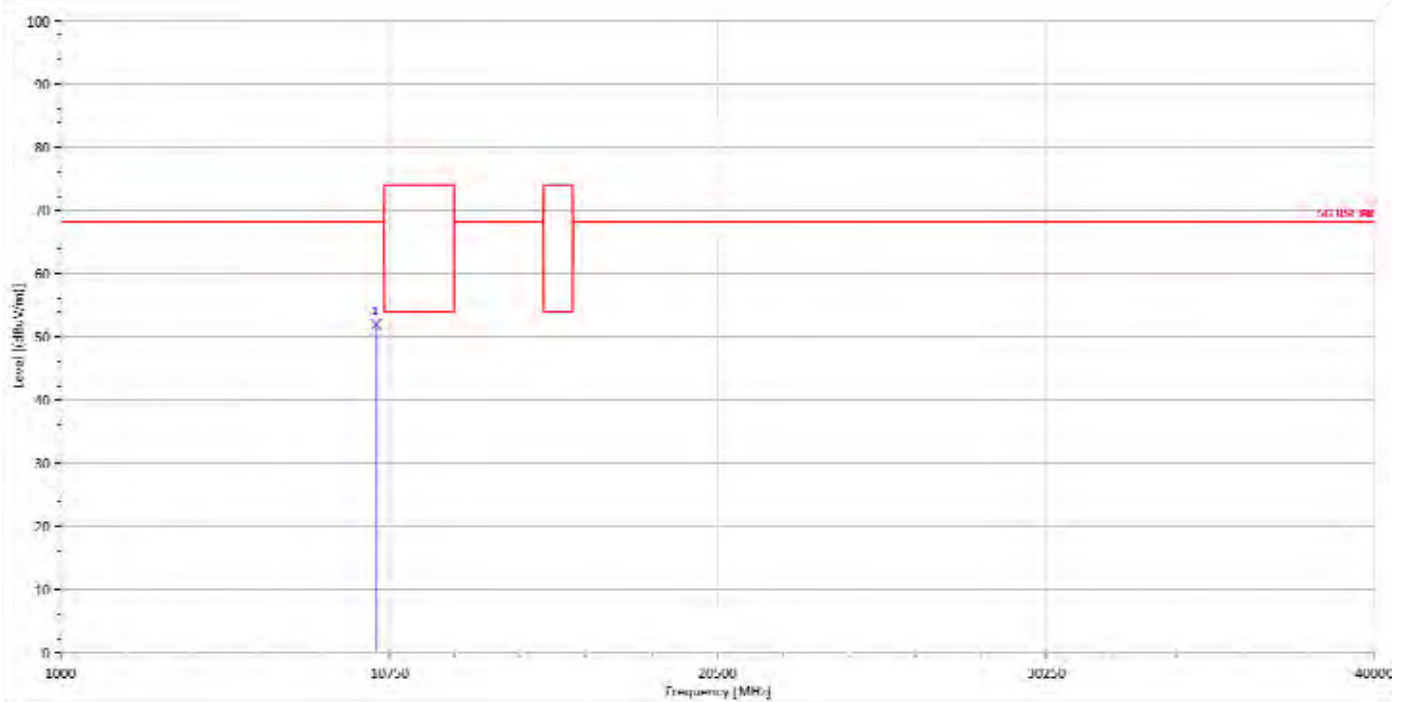
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Operation Mode : 802.11a Test Date : 2017/2/8
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	H	Peak	31.80	20.18	51.97	68.3	-16.33

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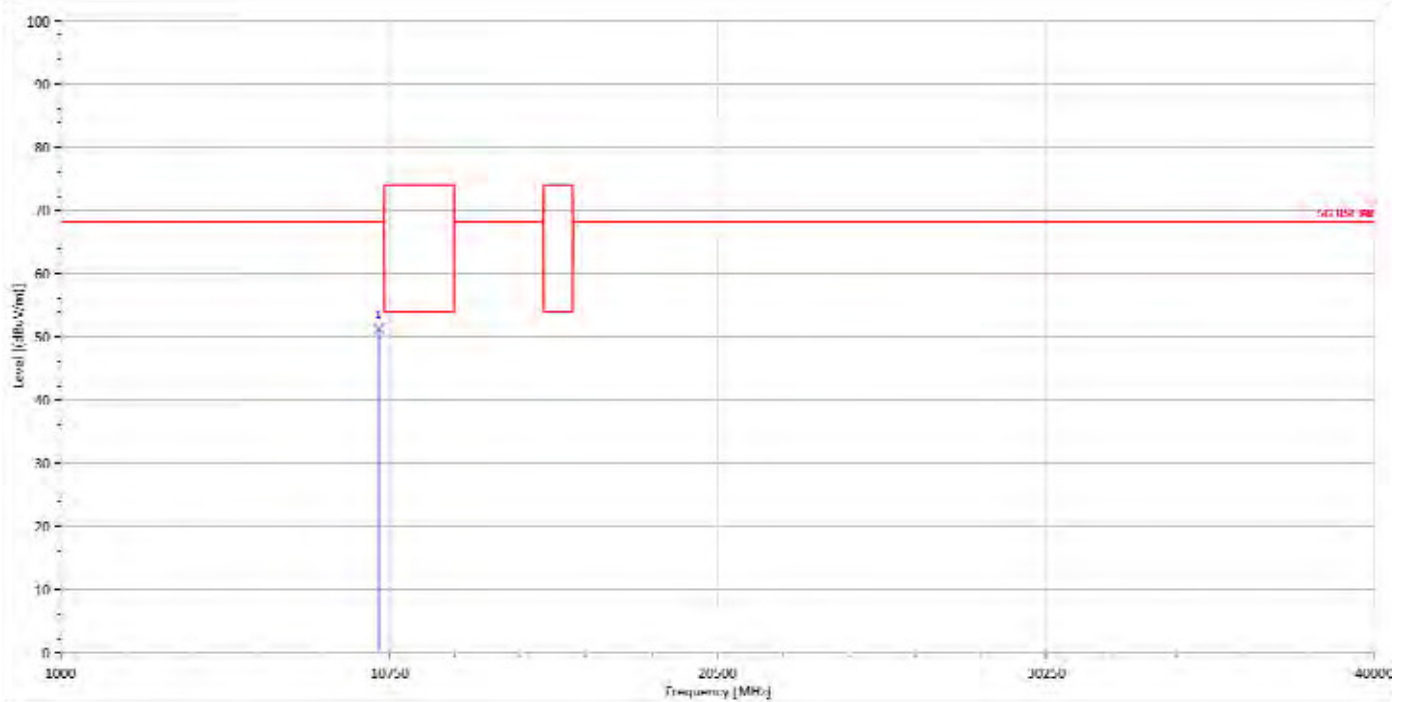
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Operation Mode : 802.11a Test Date : 2017/2/8
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	H	Peak	30.96	20.29	51.25	68.3	-17.05

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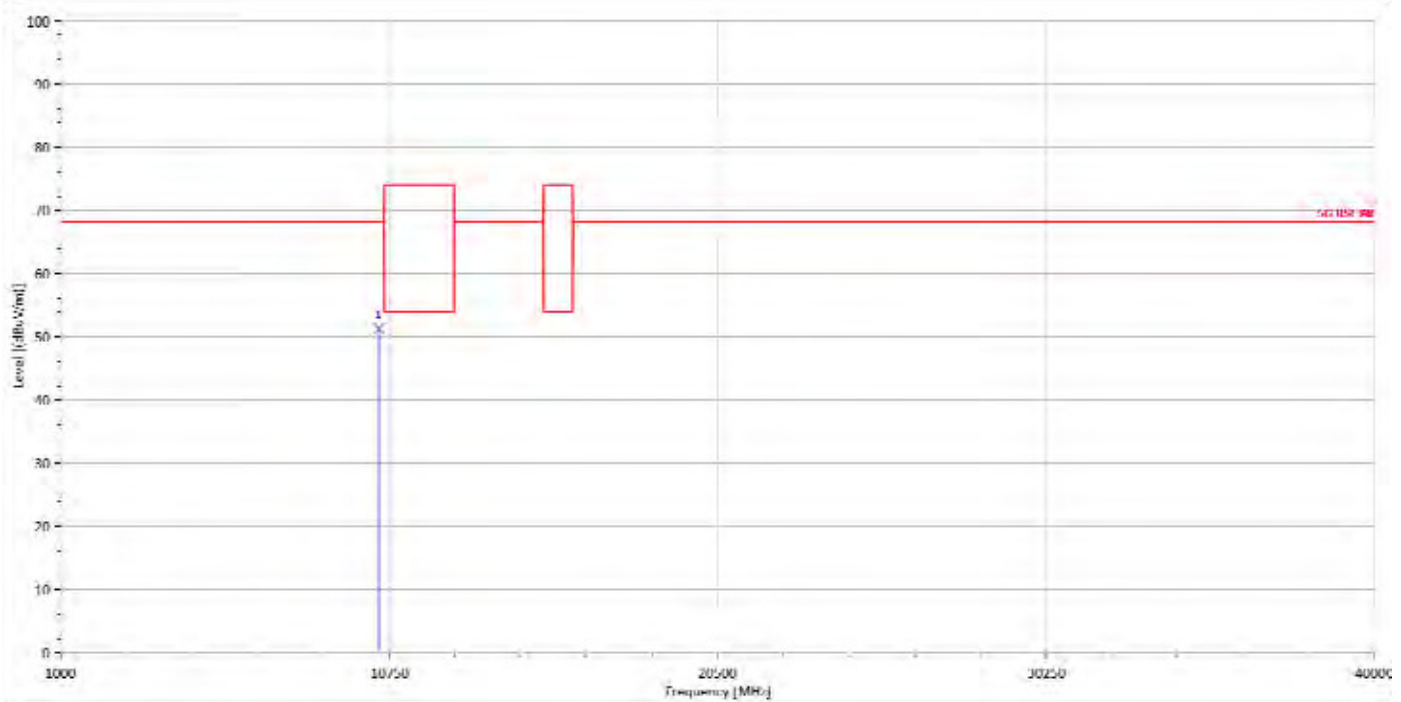
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Operation Mode : 802.11a Test Date : 2017/2/8
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	31.00	20.29	51.29	68.3	-17.01

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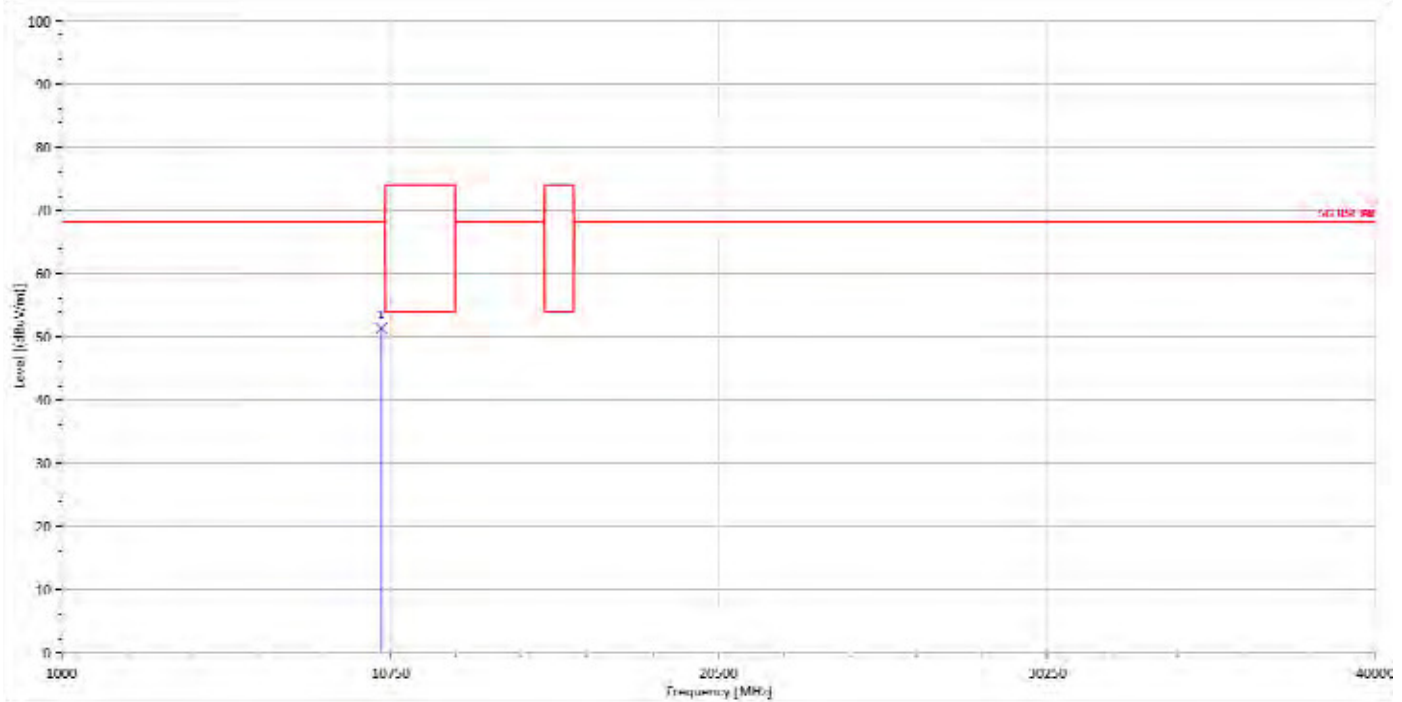
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Operation Mode :	802.11a	Test Date :	2017/2/8
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	H	Peak	30.65	20.68	51.33	68.3	-16.97

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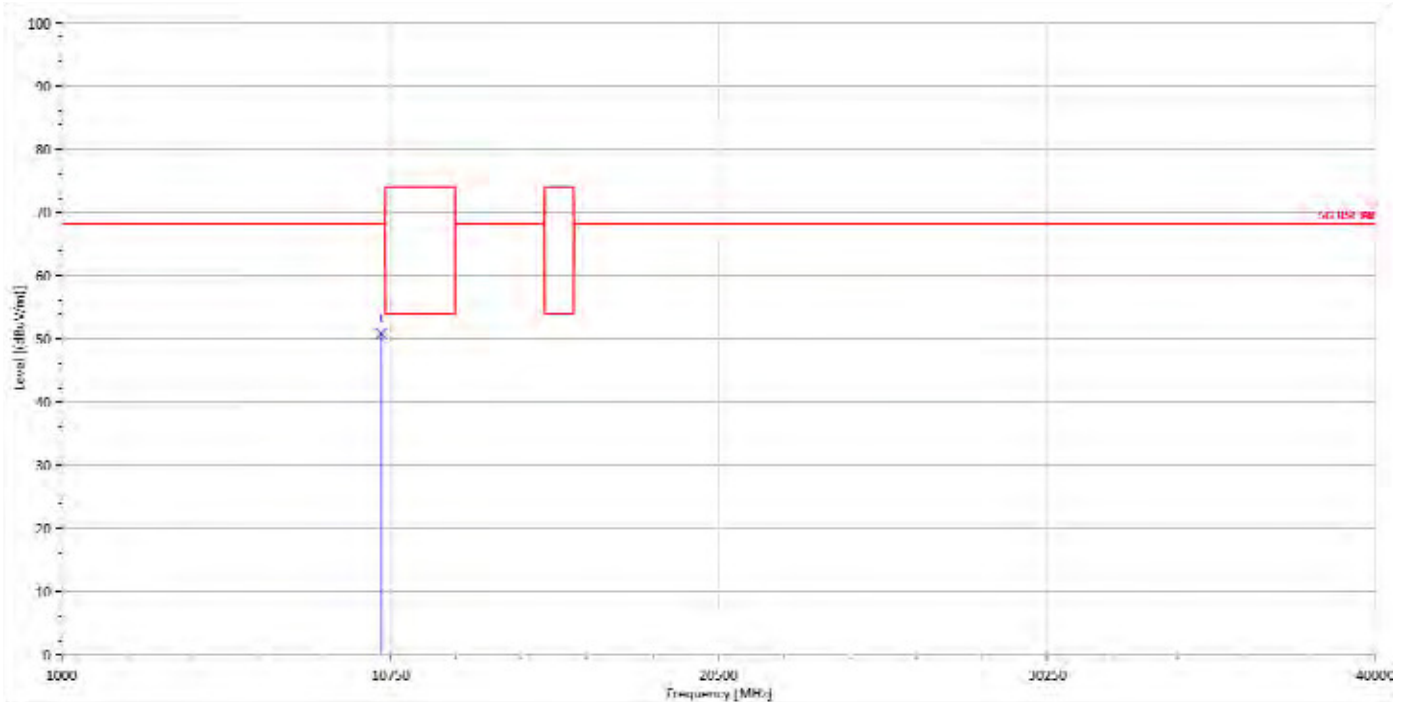
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Operation Mode :	802.11a	Test Date :	2017/2/8
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	H	Peak	30.14	20.68	50.82	68.3	-17.48

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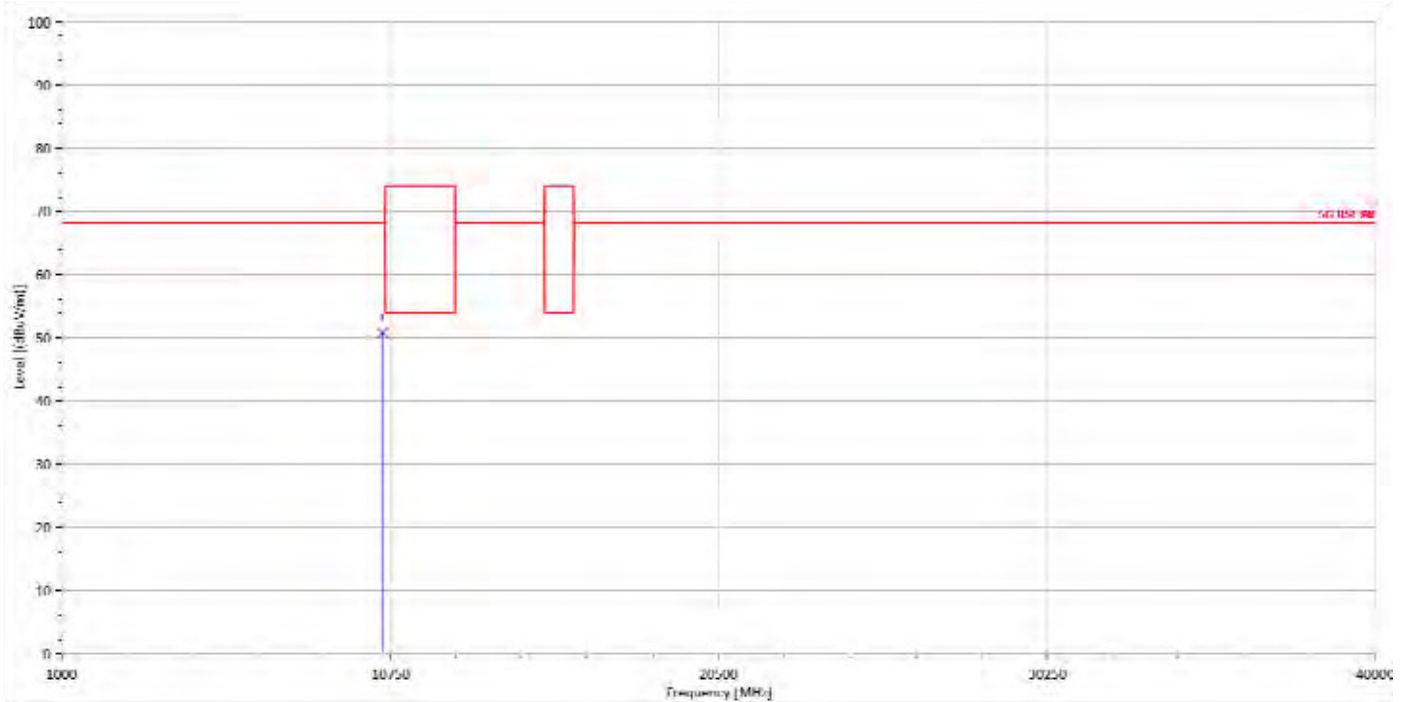
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11a	Test Date :	2017/2/8
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	H	Peak	30.72	20.10	50.82	68.3	-17.48

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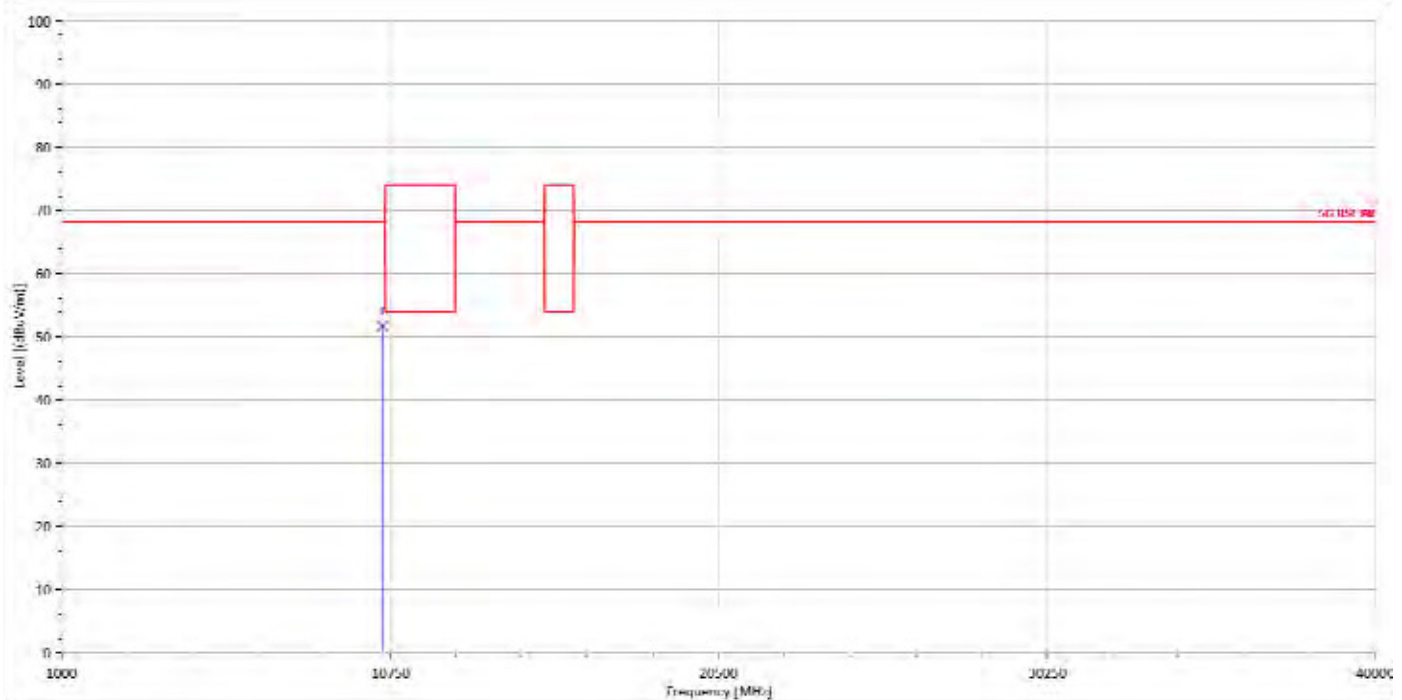
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Operation Mode : 802.11a Test Date : 2017/2/8
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	H	Peak	31.59	20.10	51.69	68.3	-16.61

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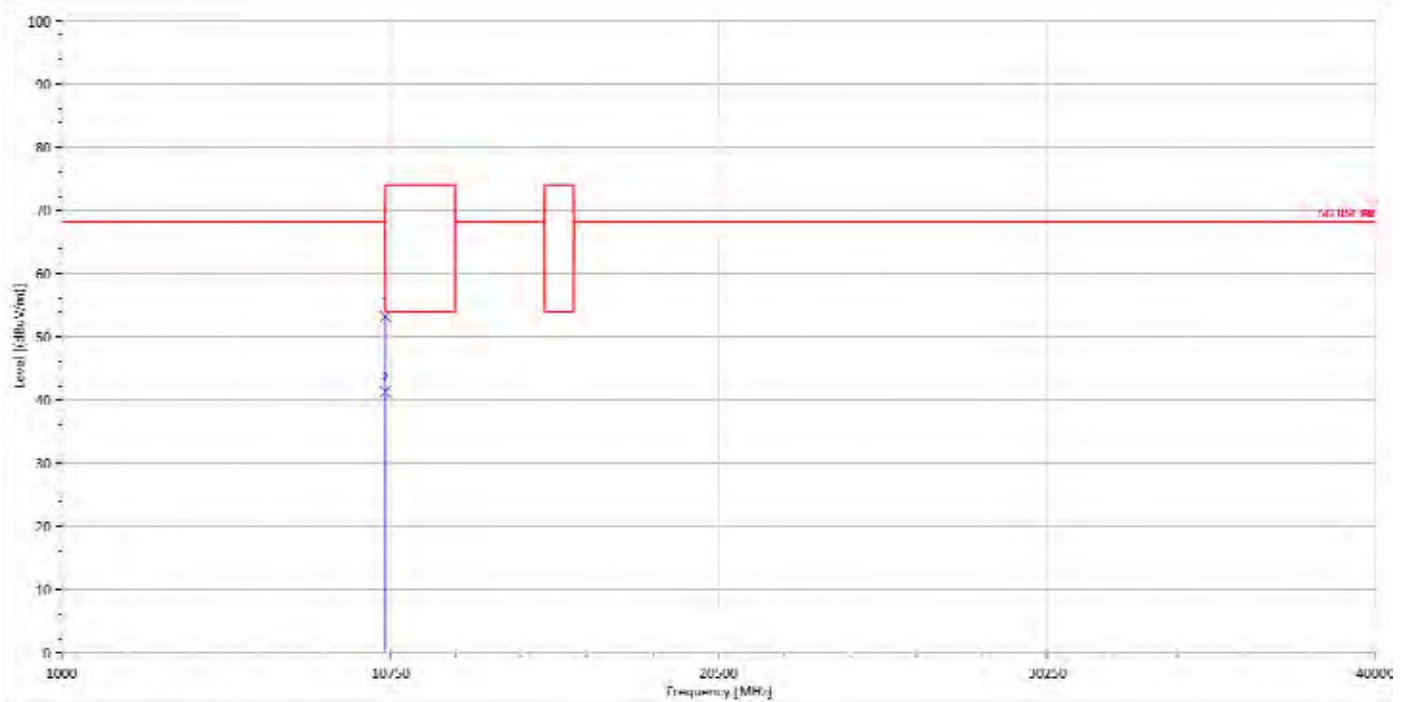
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Operation Mode : 802.11a Test Date : 2017/2/8
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10600.00	H	Peak	33.06	20.17	53.23	74	-20.77
10600.00	H	Average	21.12	20.17	41.29	54	-12.71

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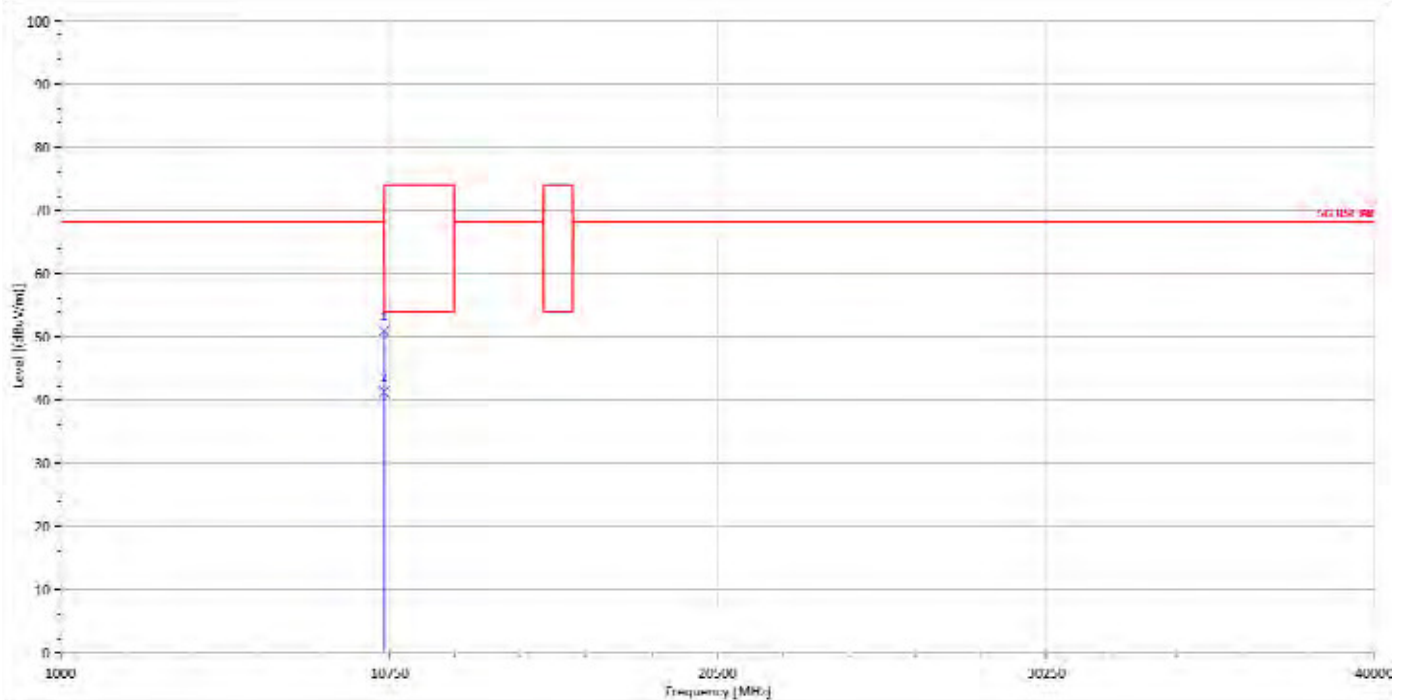
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Operation Mode : 802.11a Test Date : 2017/2/8
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	30.78	20.17	50.94	74	-23.06
10600.00	H	Average	21.10	20.17	41.27	54	-12.73

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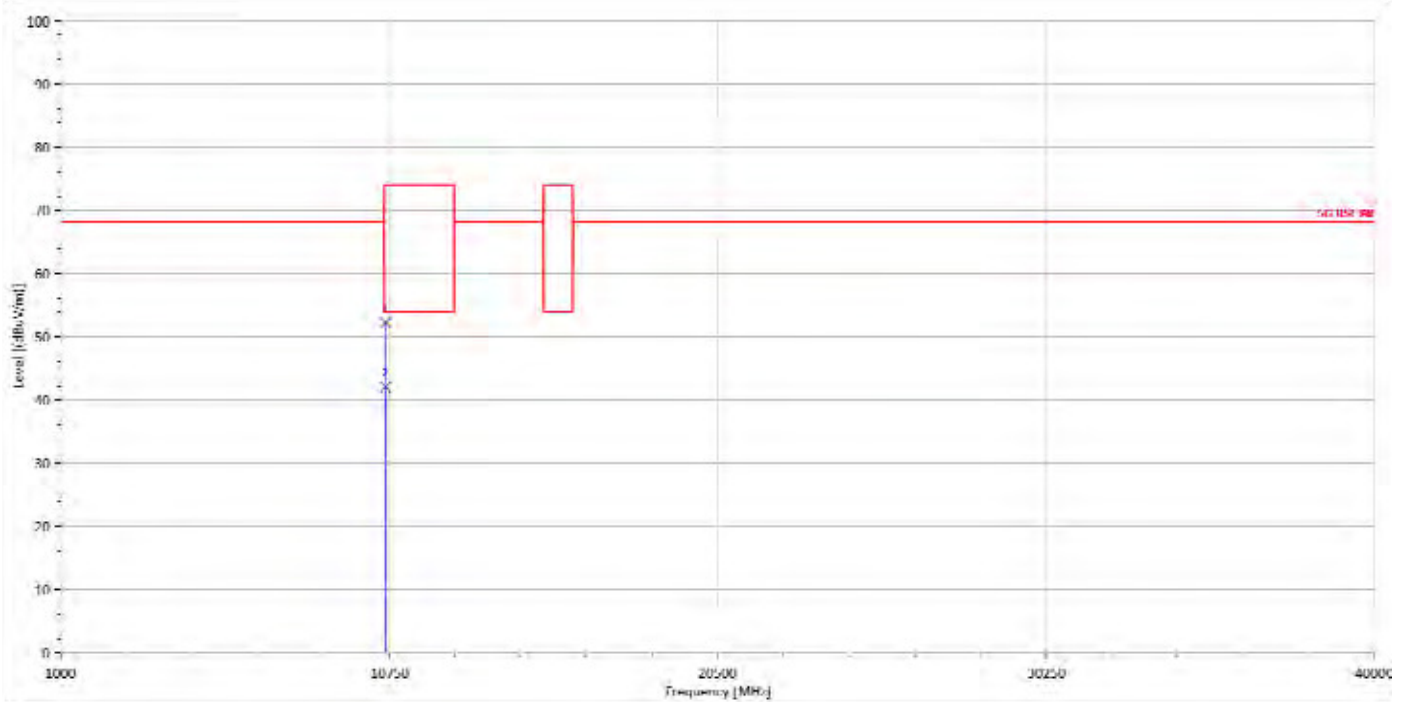
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Operation Mode : 802.11a Test Date : 2017/2/8
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	31.92	20.34	52.27	74	-21.73
10640.00	H	Average	21.64	20.34	41.98	54	-12.02

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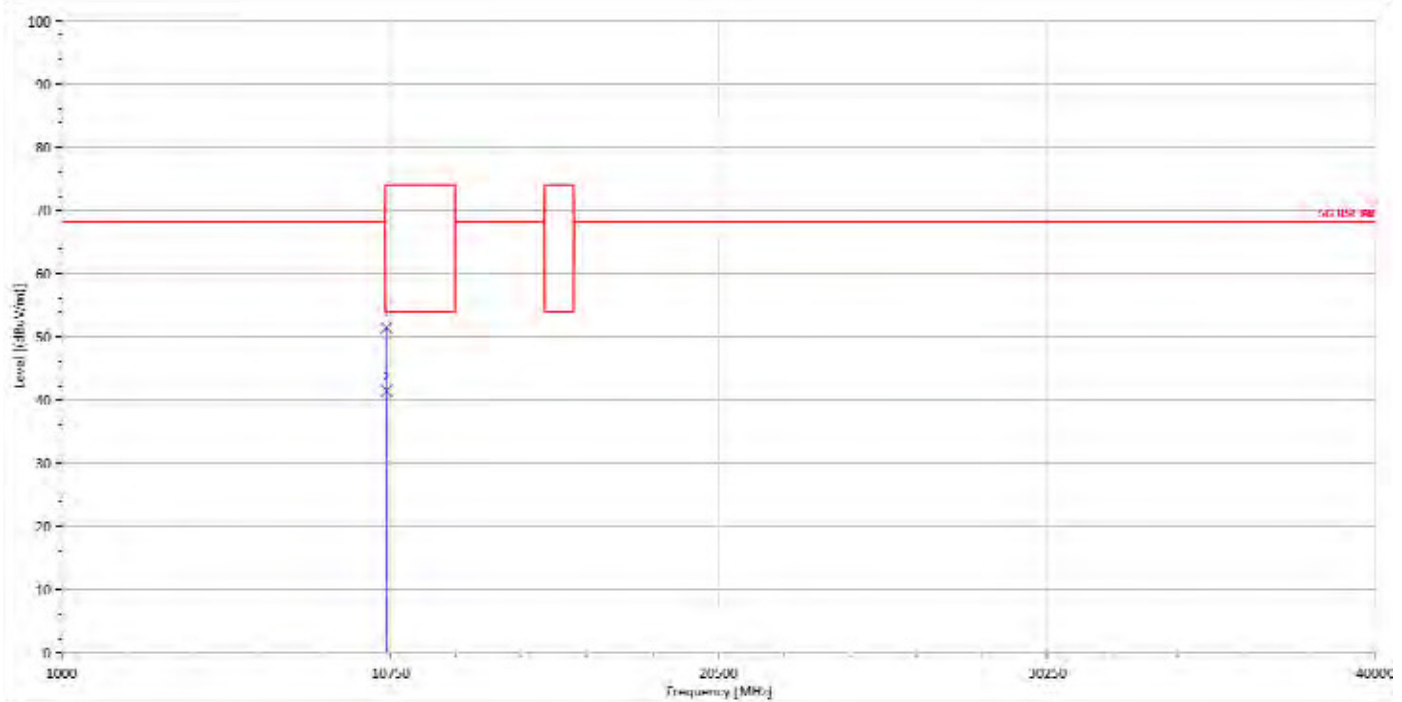
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Operation Mode :	802.11a	Test Date :	2017/2/8
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	31.10	20.34	51.44	74	-22.56
10640.00	H	Average	21.08	20.34	41.42	54	-12.58

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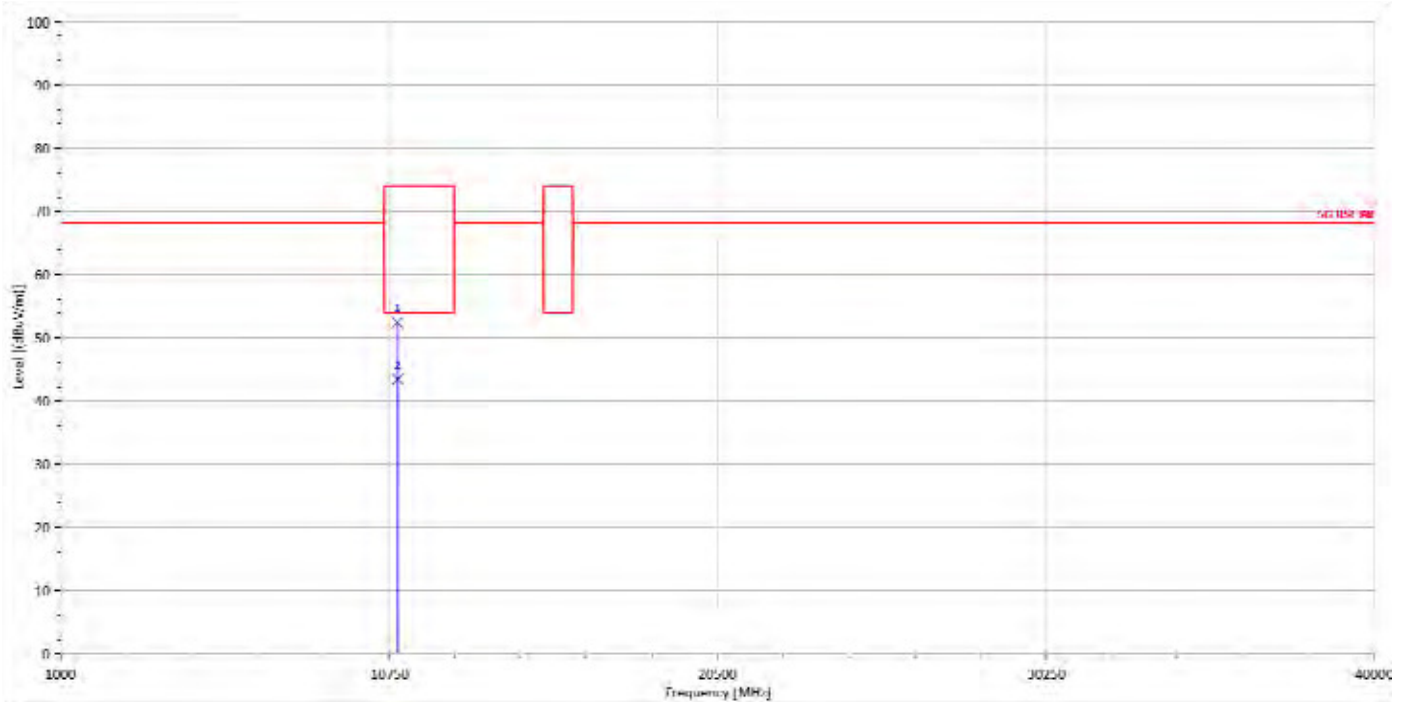
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2017/2/8
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	H	Peak	30.35	22.11	52.46	74	-21.54
11000.00	H	Average	21.26	22.11	43.37	54	-10.63

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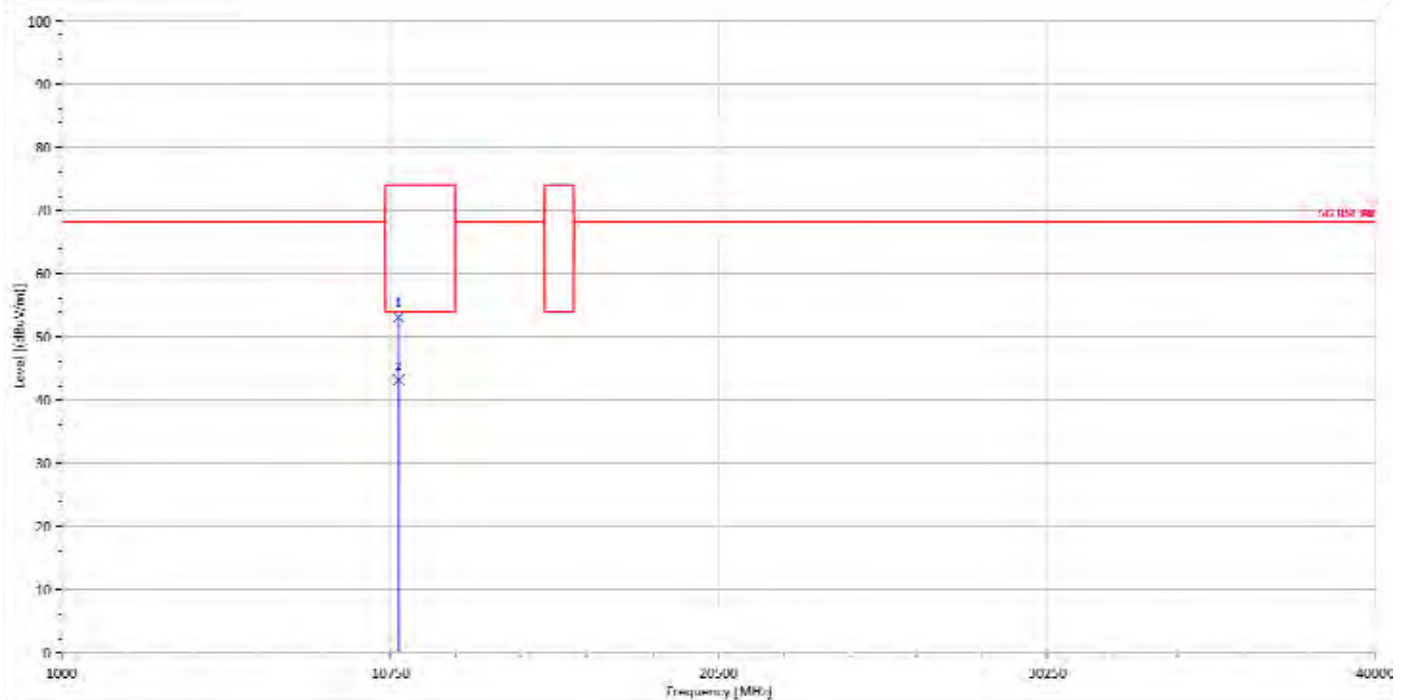
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Operation Mode : 802.11a Test Date : 2017/2/8
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	H	Peak	31.02	22.11	53.13	74	-20.87
11000.00	H	Average	20.98	22.11	43.09	54	-10.91

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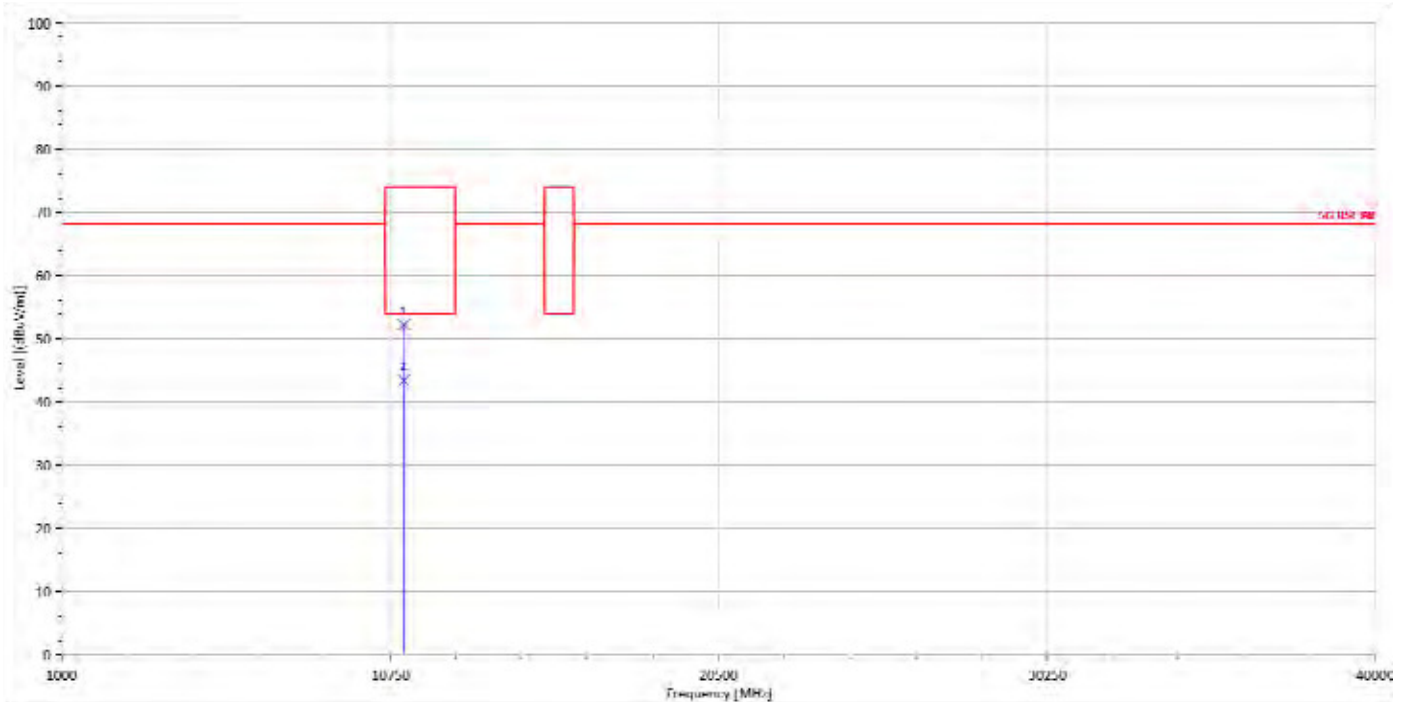
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Operation Mode : 802.11a Test Date : 2017/2/8
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	30.25	22.04	52.29	74	-21.71
11160.00	H	Average	21.29	22.04	43.33	54	-10.67

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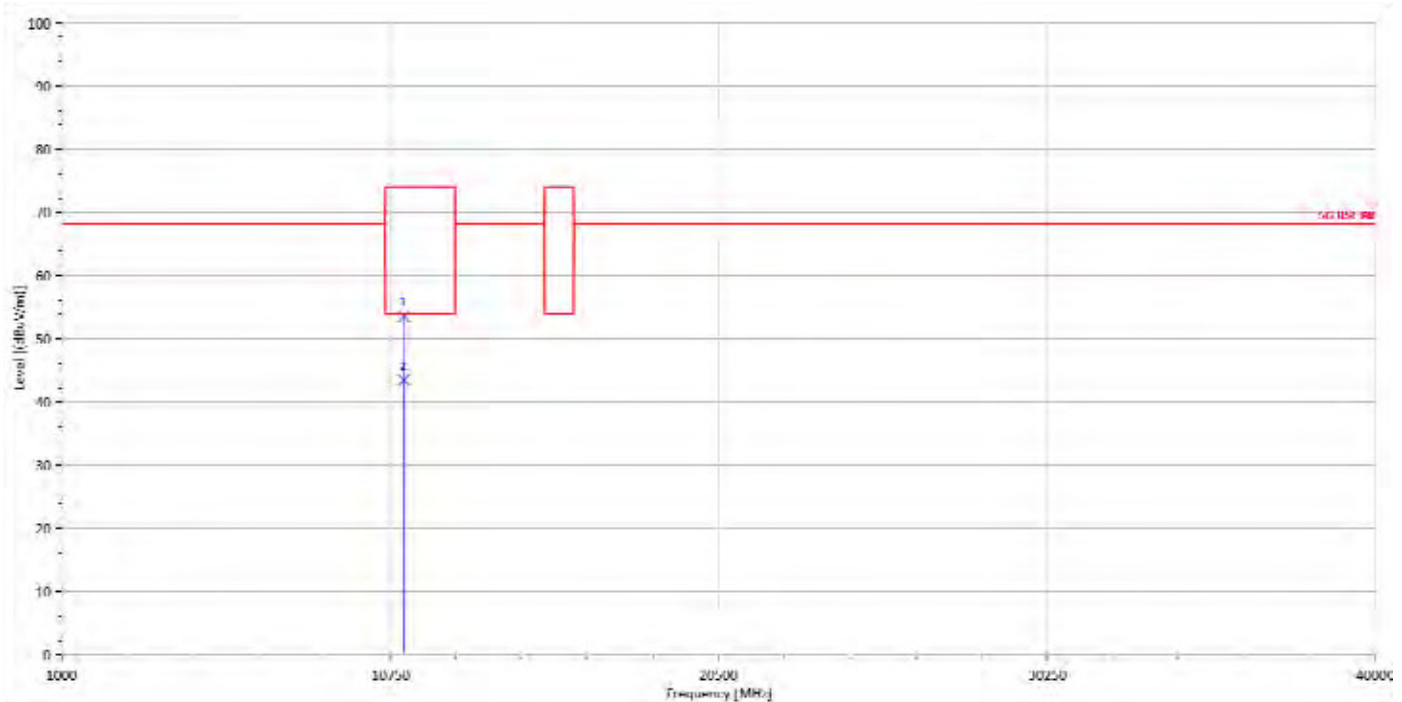
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Operation Mode : 802.11a Test Date : 2017/2/8
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.00	H	Peak	31.51	22.04	53.55	74	-20.45
11160.00	H	Average	21.34	22.04	43.38	54	-10.62

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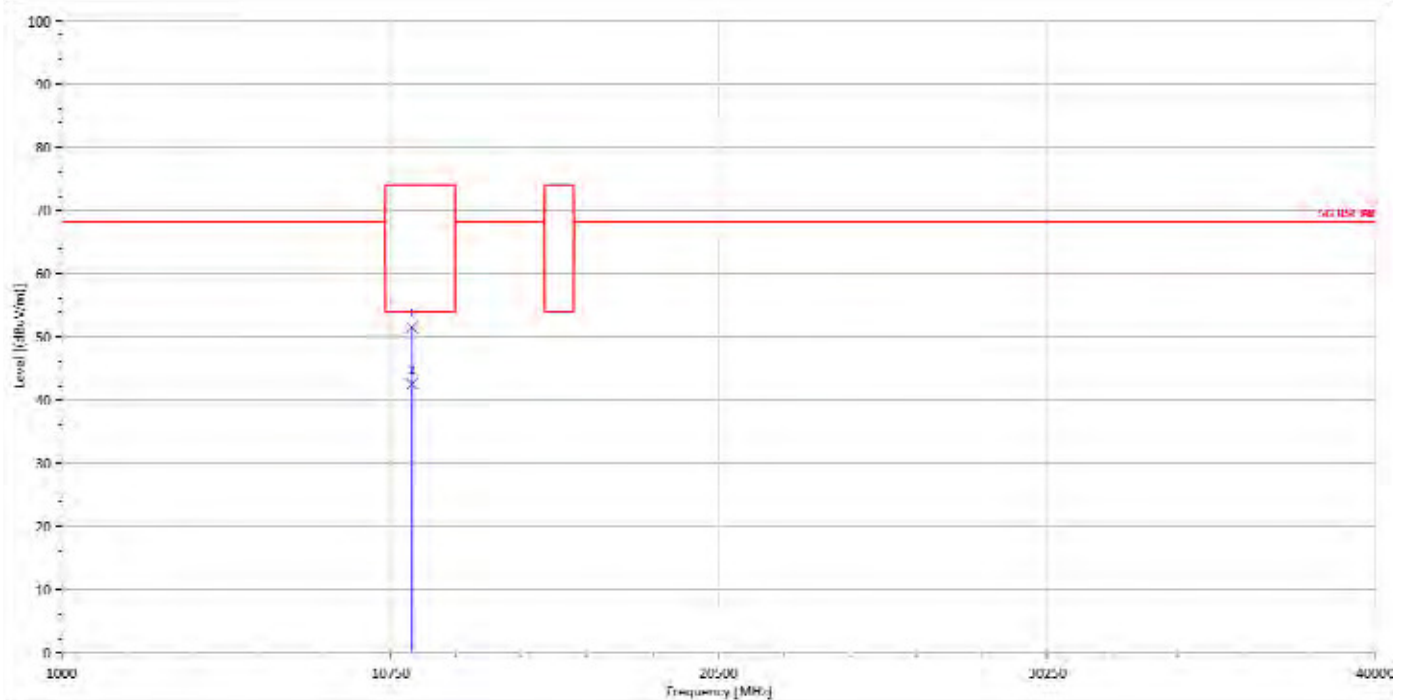
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Operation Mode :	802.11a	Test Date :	2017/2/8
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	30.27	21.22	51.49	74	-22.51
11400.00	H	Average	21.23	21.22	42.45	54	-11.55

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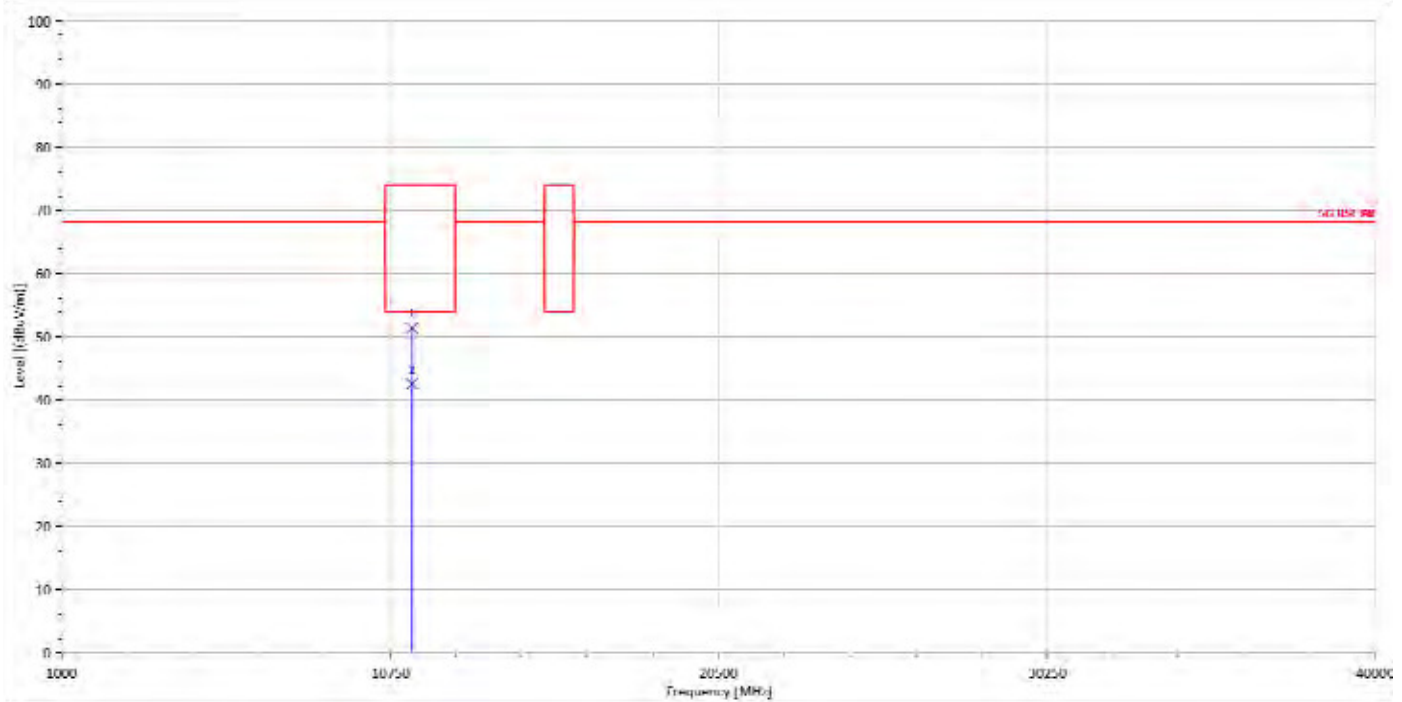
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Operation Mode :	802.11a	Test Date :	2017/2/8
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	30.17	21.22	51.39	74	-22.61
11400.00	H	Average	21.25	21.22	42.47	54	-11.53

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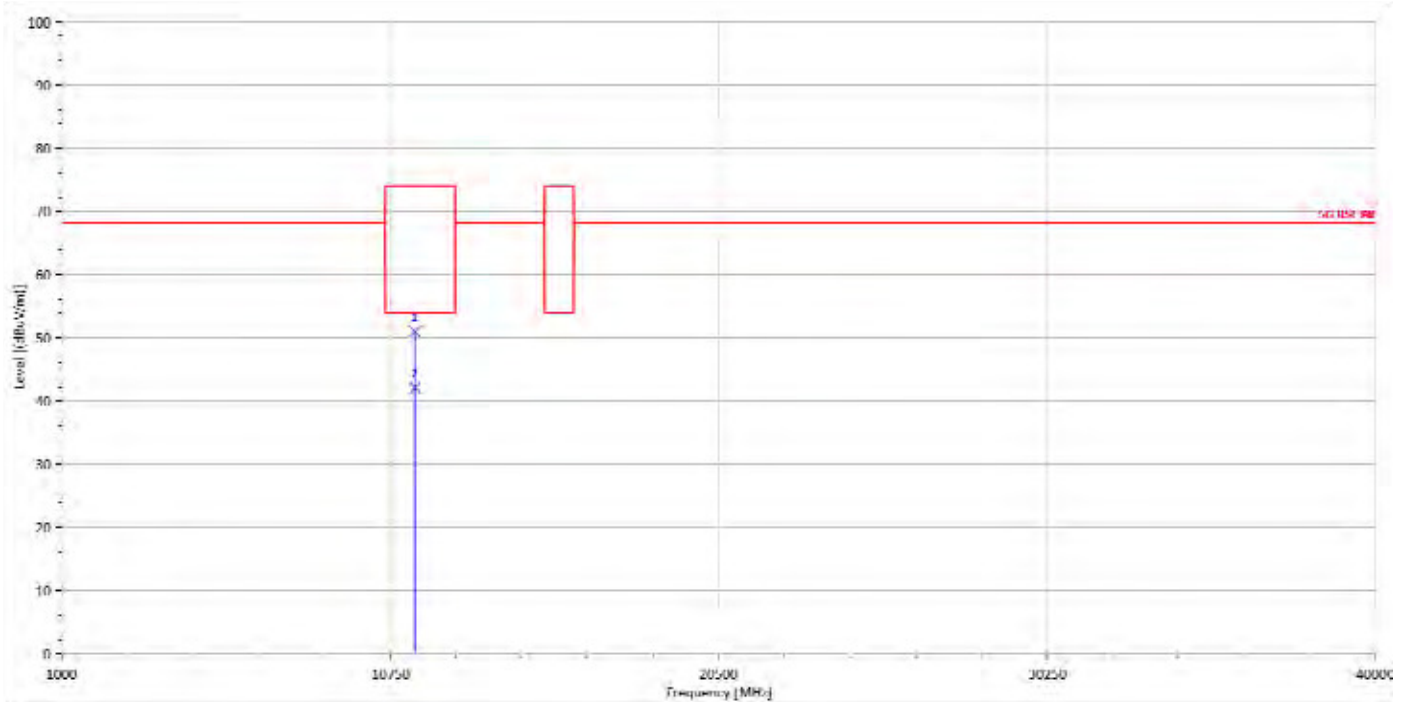
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11a	Test Date :	2017/2/8
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	30.30	20.70	51.01	74	-22.99
11490.00	H	Average	21.30	20.70	42.00	54	-12.00

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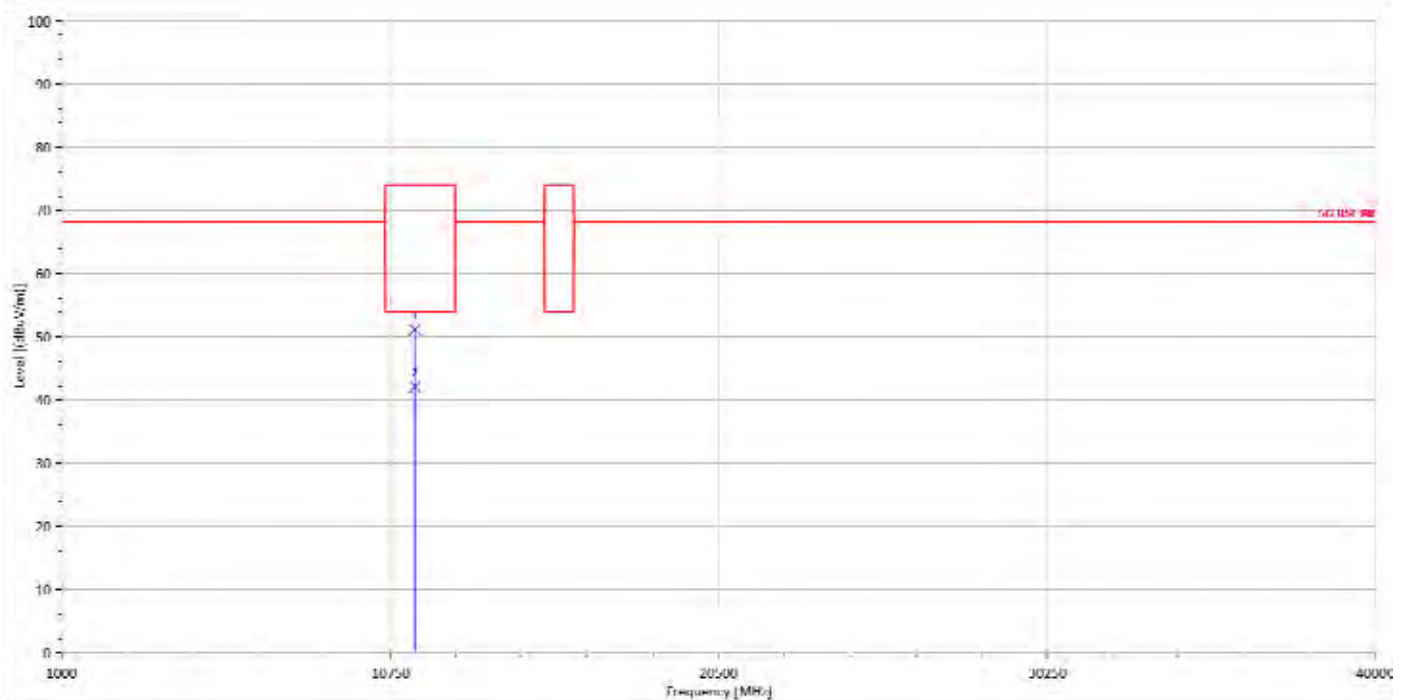
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Operation Mode : 802.11a Test Date : 2017/2/8
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	H	Peak	30.43	20.70	51.13	74	-22.87
11490.00	H	Average	21.31	20.70	42.01	54	-11.99

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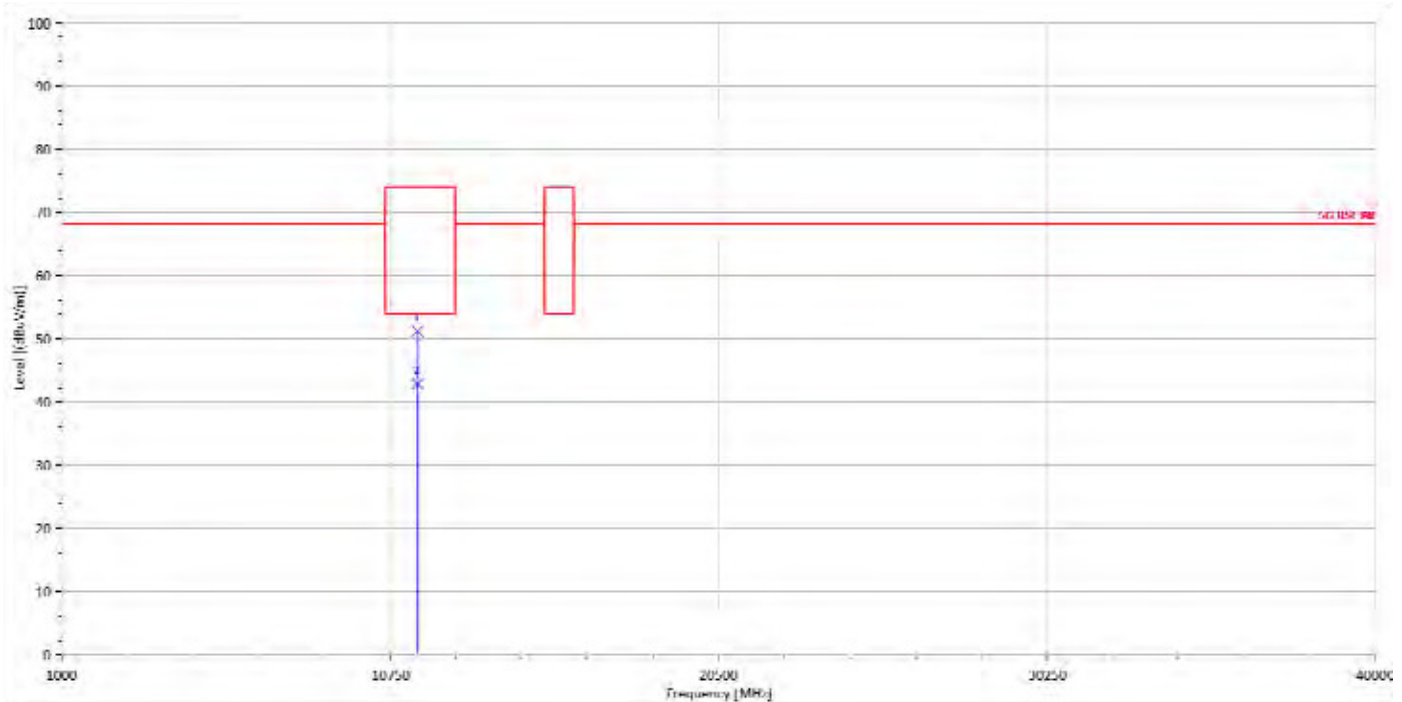
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Operation Mode : 802.11a Test Date : 2017/2/8
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11570.00	H	Peak	29.78	21.44	51.22	74	-22.78
11570.00	H	Average	21.34	21.44	42.78	54	-11.22

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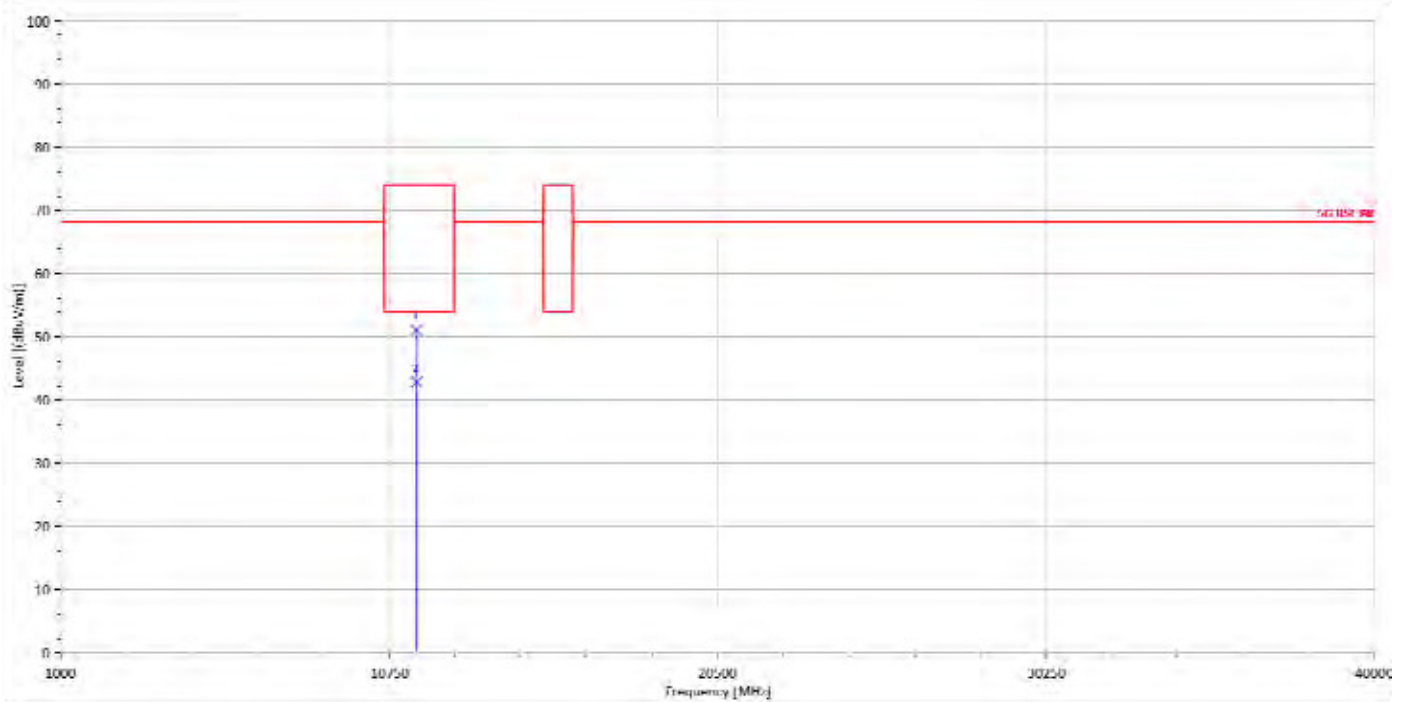
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Operation Mode : 802.11a Test Date : 2017/2/8
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11570.00	H	Peak	29.63	21.44	51.07	74	-22.93
11570.00	H	Average	21.32	21.44	42.76	54	-11.24

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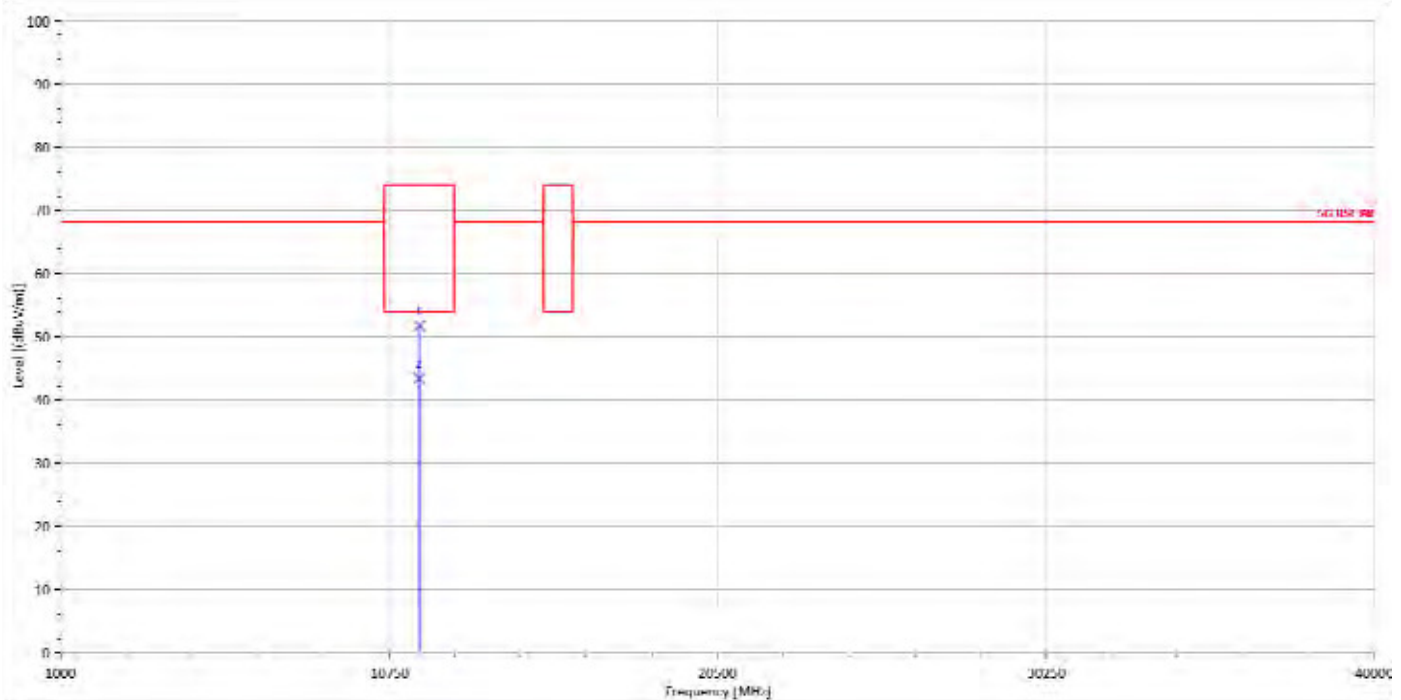
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Operation Mode :	802.11a	Test Date :	2017/2/8
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	H	Peak	29.78	22.02	51.81	74	-22.19
11650.00	H	Average	21.29	22.02	43.31	54	-10.69

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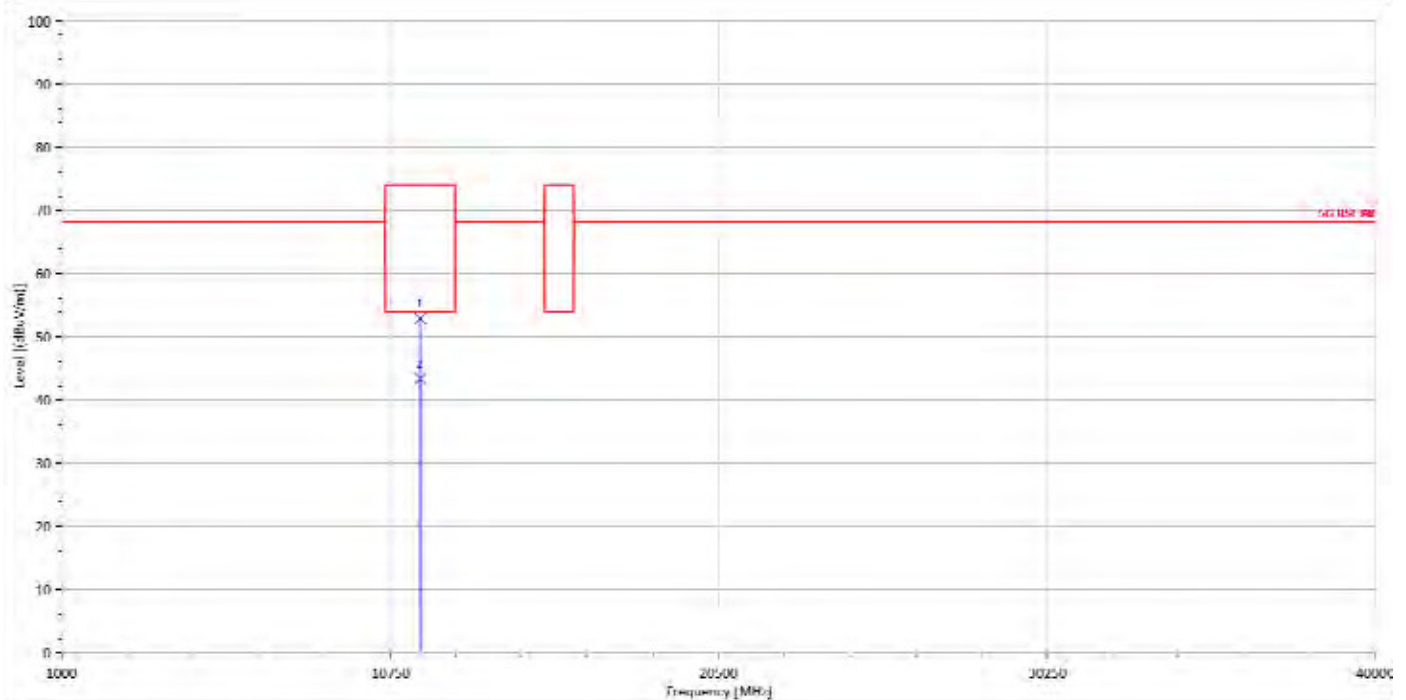
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Operation Mode :	802.11a	Test Date :	2017/2/8
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11650.00	H	Peak	30.90	22.02	52.93	74	-21.07
11650.00	H	Average	21.27	22.02	43.29	54	-10.71

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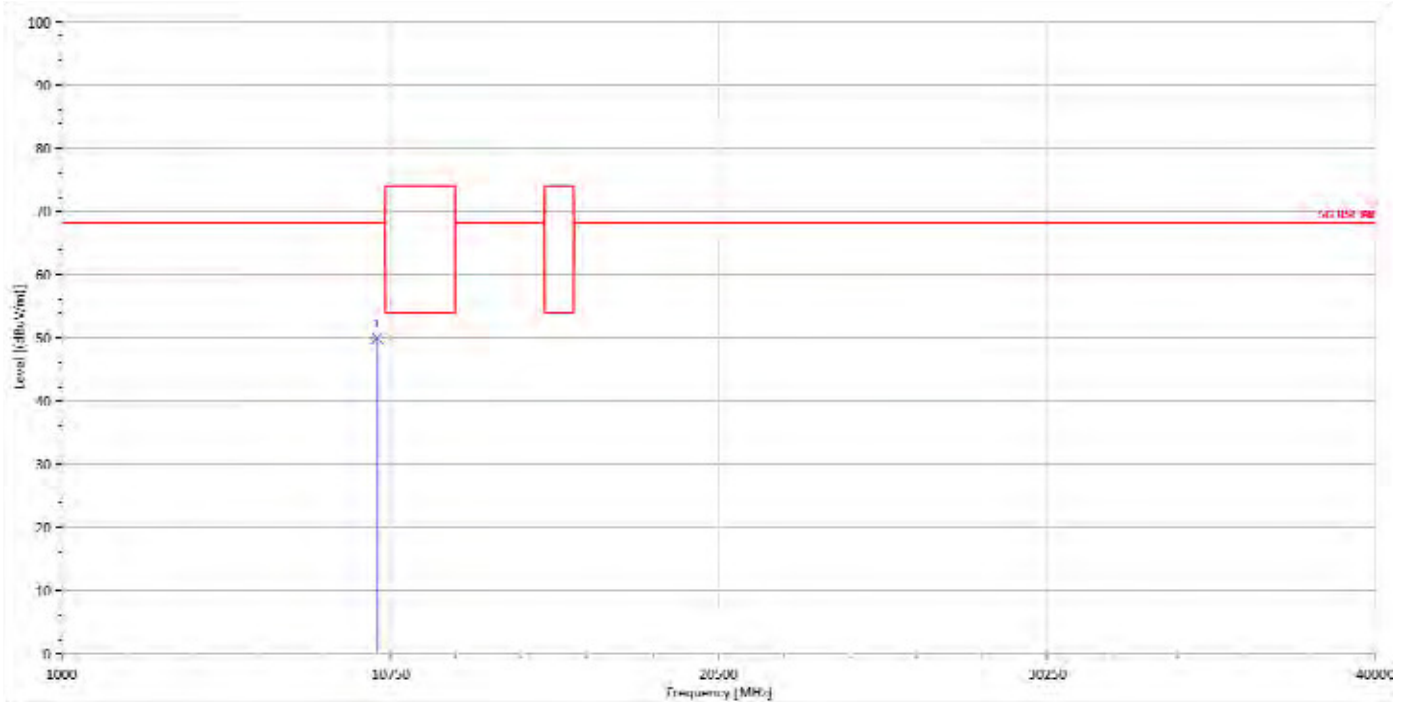
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20	Test Date :	2017/2/8
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	H	Peak	29.78	20.18	49.96	68.3	-18.34

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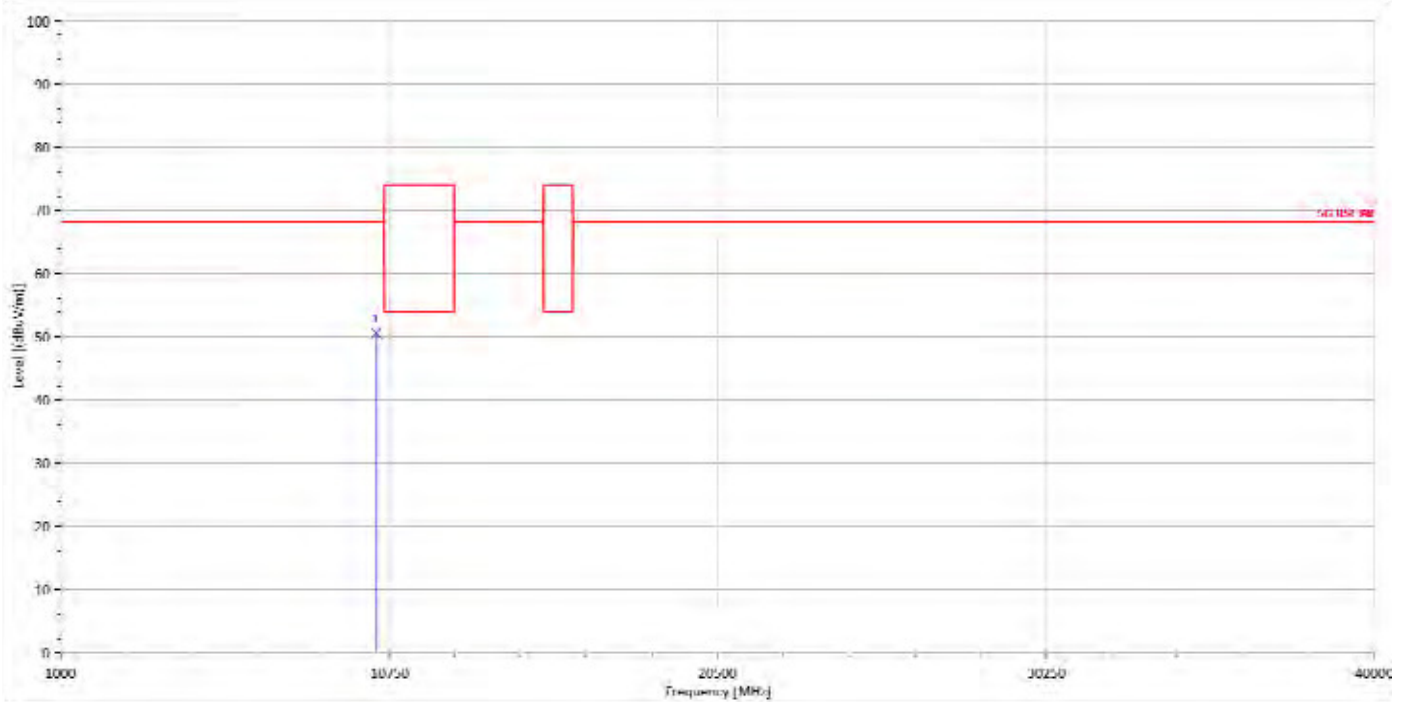
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	H	Peak	30.42	20.18	50.60	68.3	-17.70

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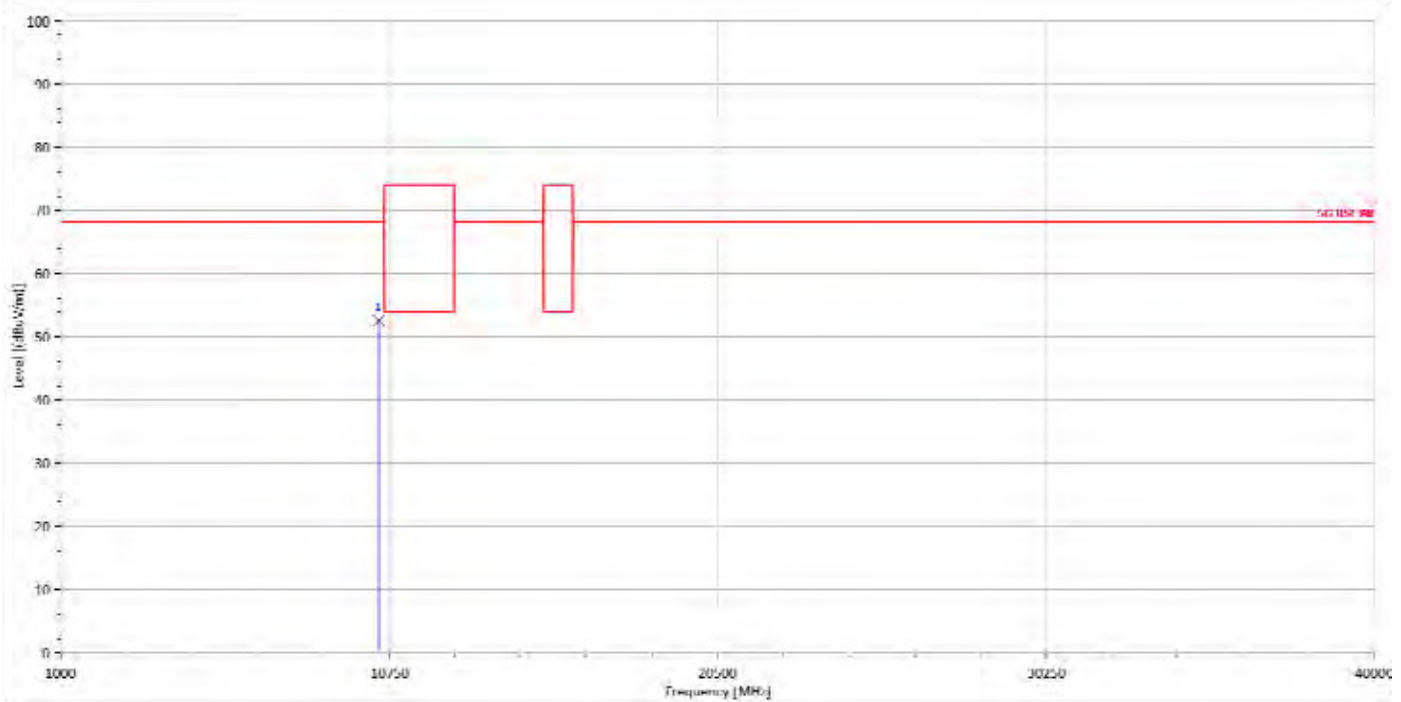
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	32.29	20.29	52.59	68.3	-15.71

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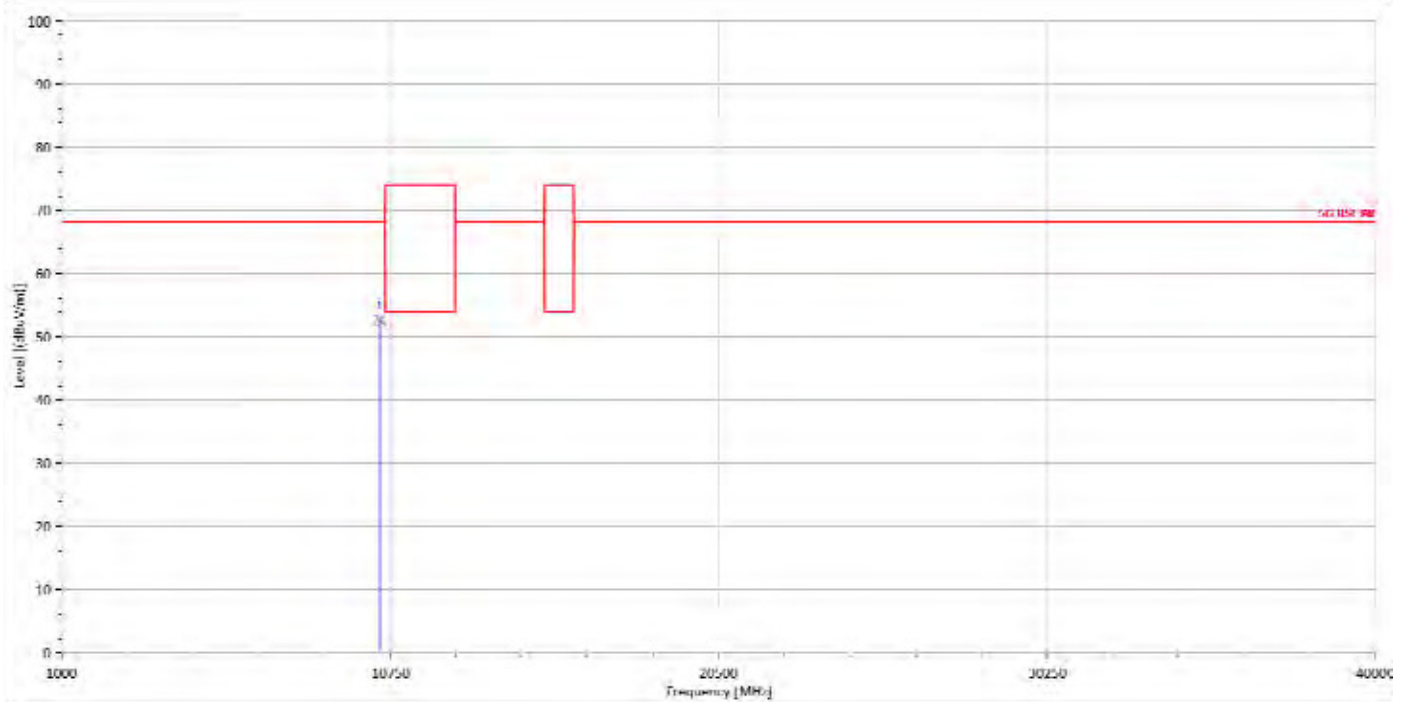
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	32.42	20.29	52.71	68.3	-15.59

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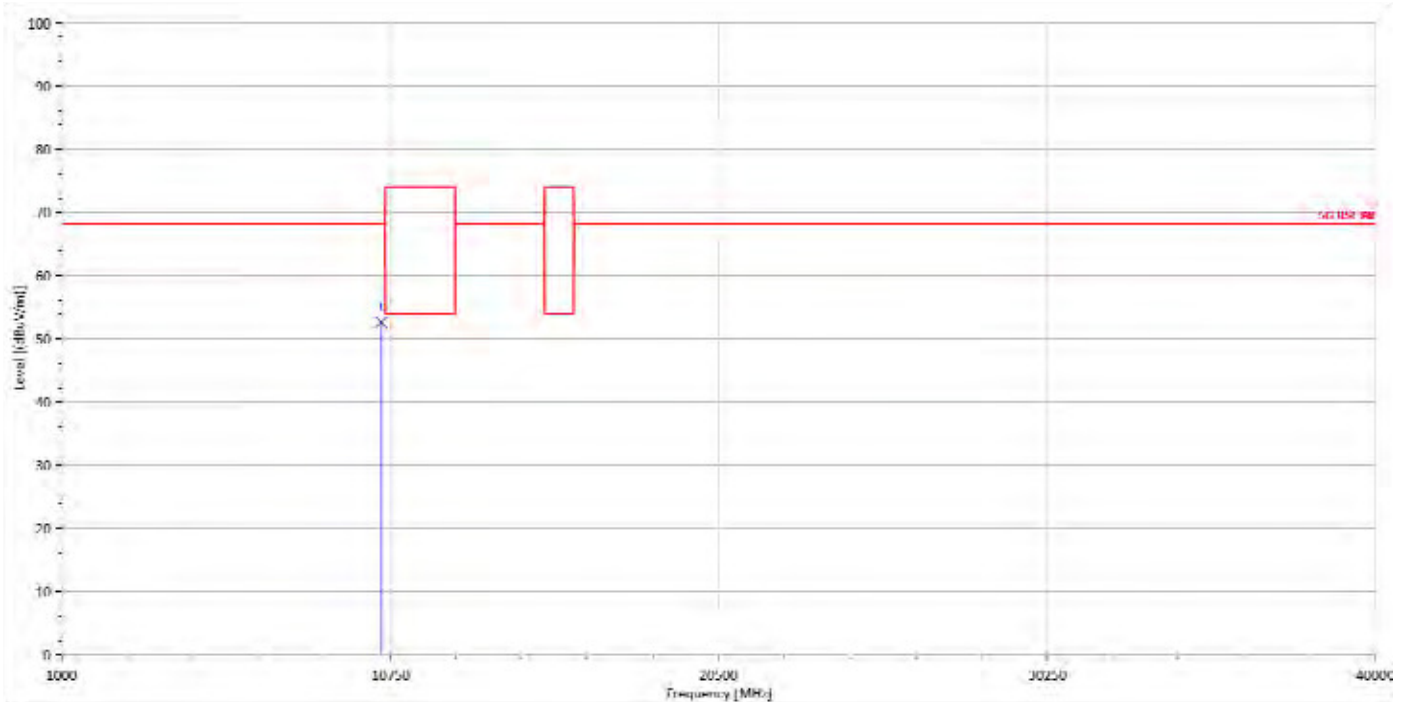
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	H	Peak	31.96	20.68	52.64	68.3	-15.66

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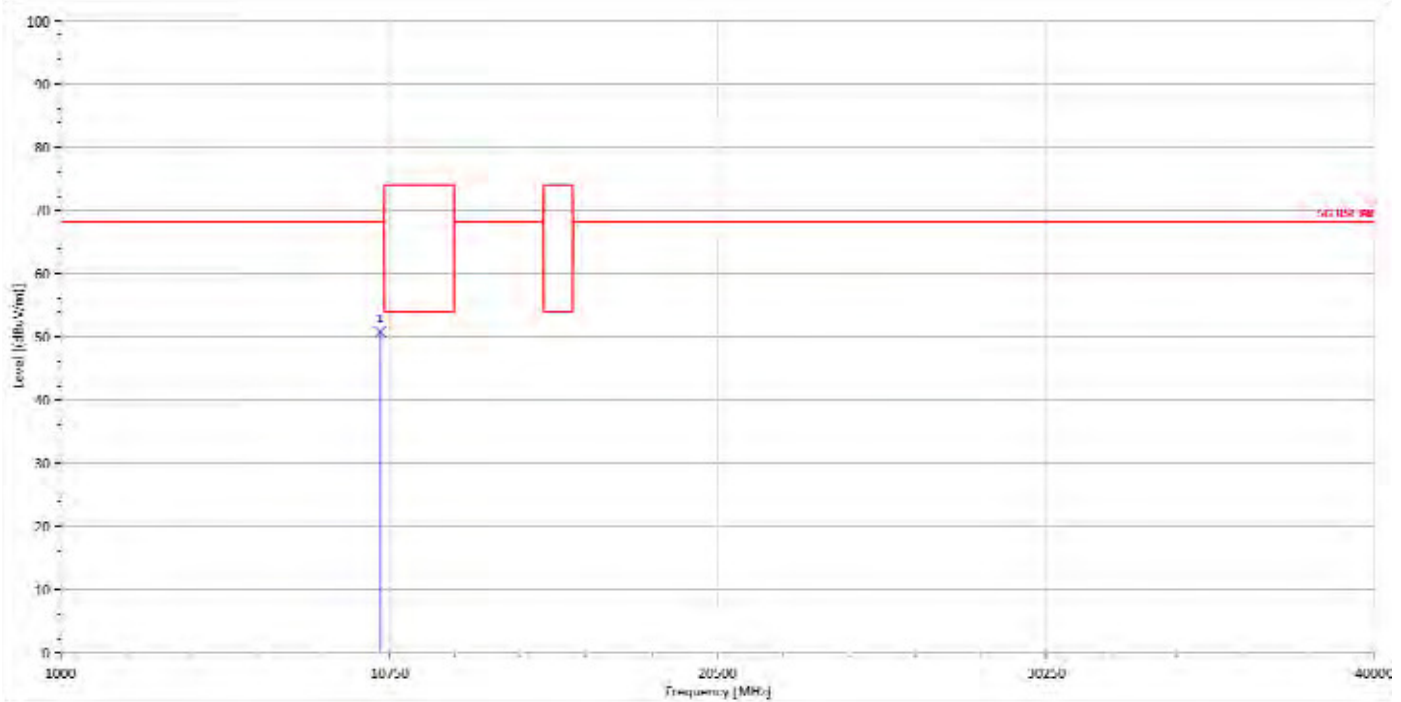
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	H	Peak	30.08	20.68	50.76	68.3	-17.54

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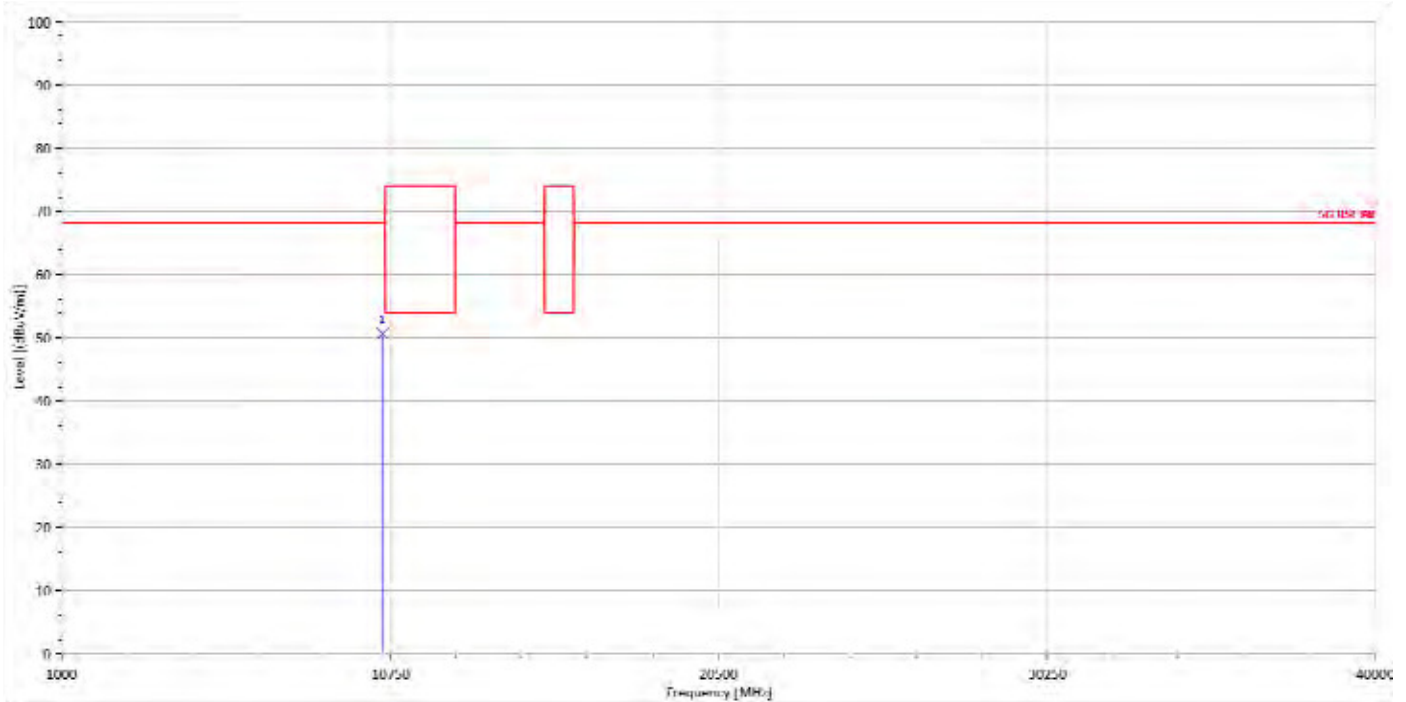
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20	Test Date :	2017/2/8
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	H	Peak	30.56	20.10	50.66	68.3	-17.64

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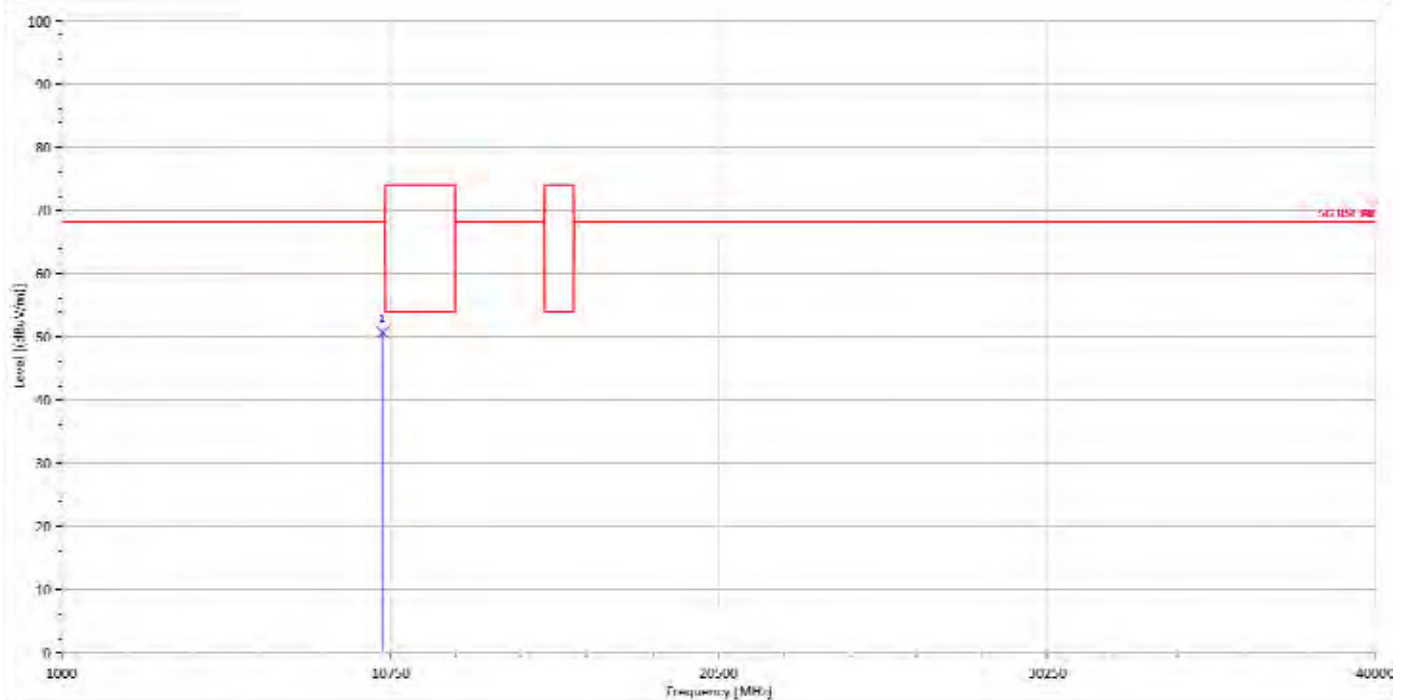
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	H	Peak	30.60	20.10	50.70	68.3	-17.60

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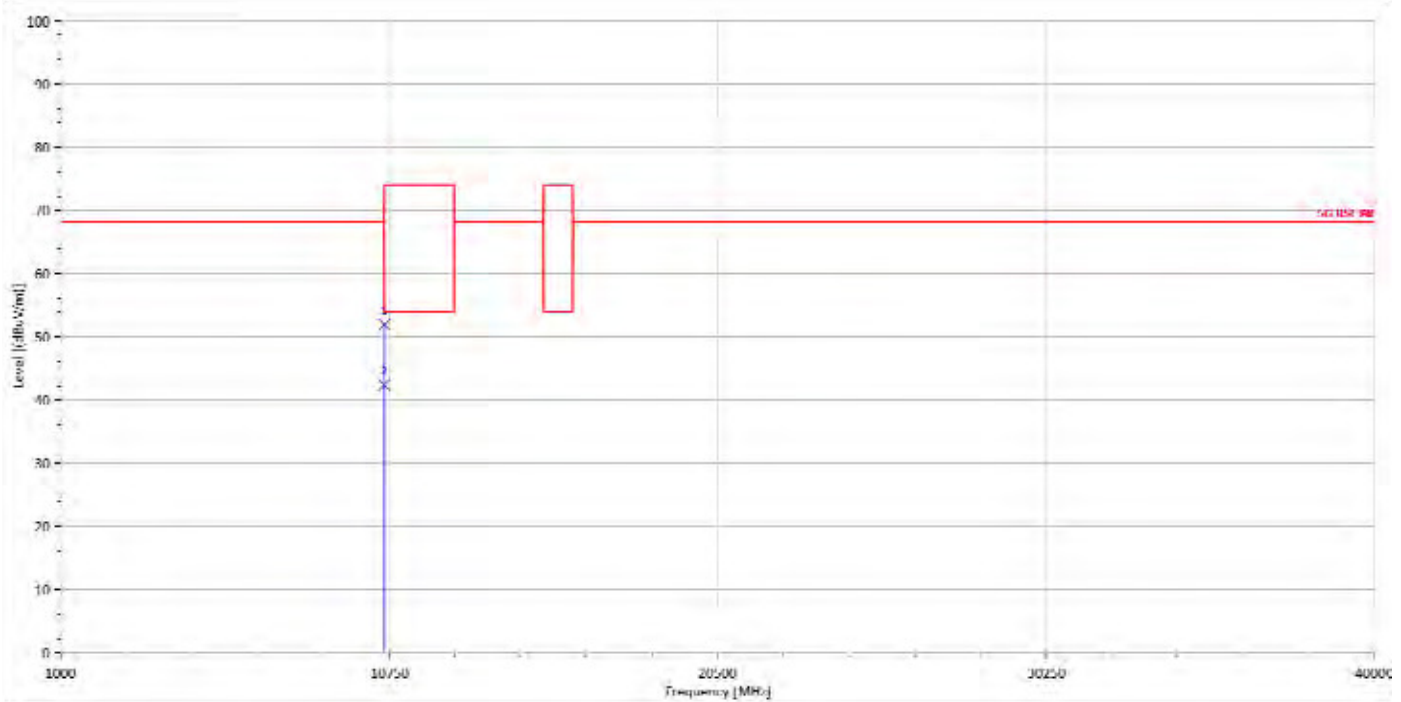
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	31.78	20.17	51.94	74	-22.06
10600.00	H	Average	22.15	20.17	42.32	54	-11.68

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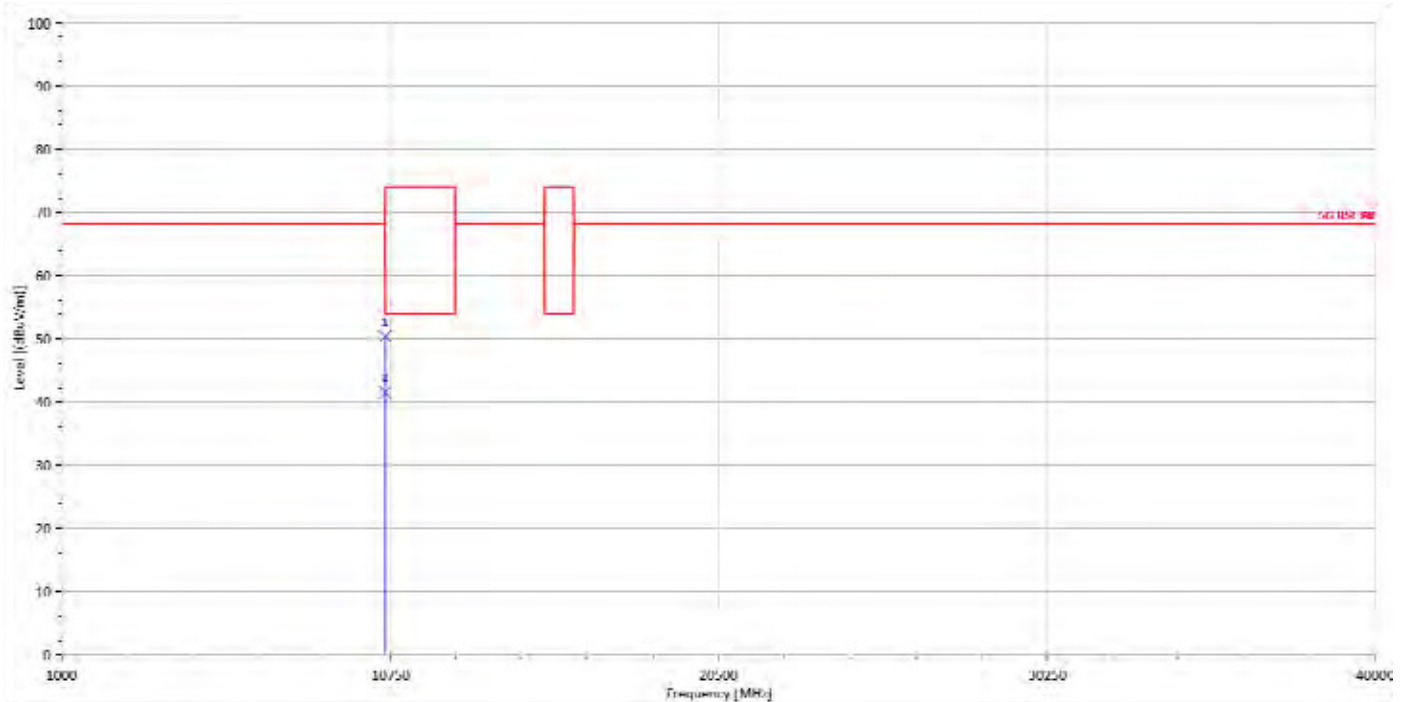
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	30.24	20.17	50.41	74	-23.59
10600.00	H	Average	21.31	20.17	41.48	54	-12.52

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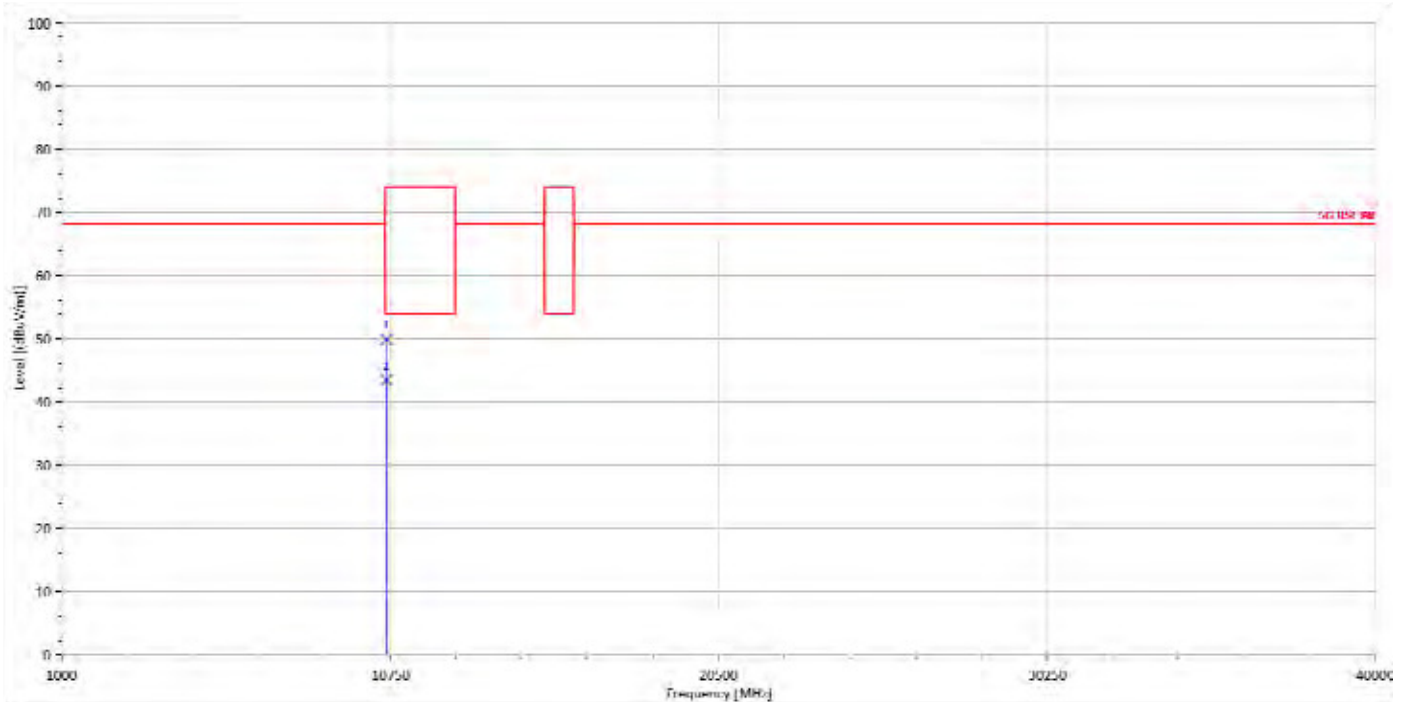
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	S	Peak	29.55	20.34	49.90	74	-24.10
10640.00	S	Average	23.05	20.34	43.39	54	-10.61

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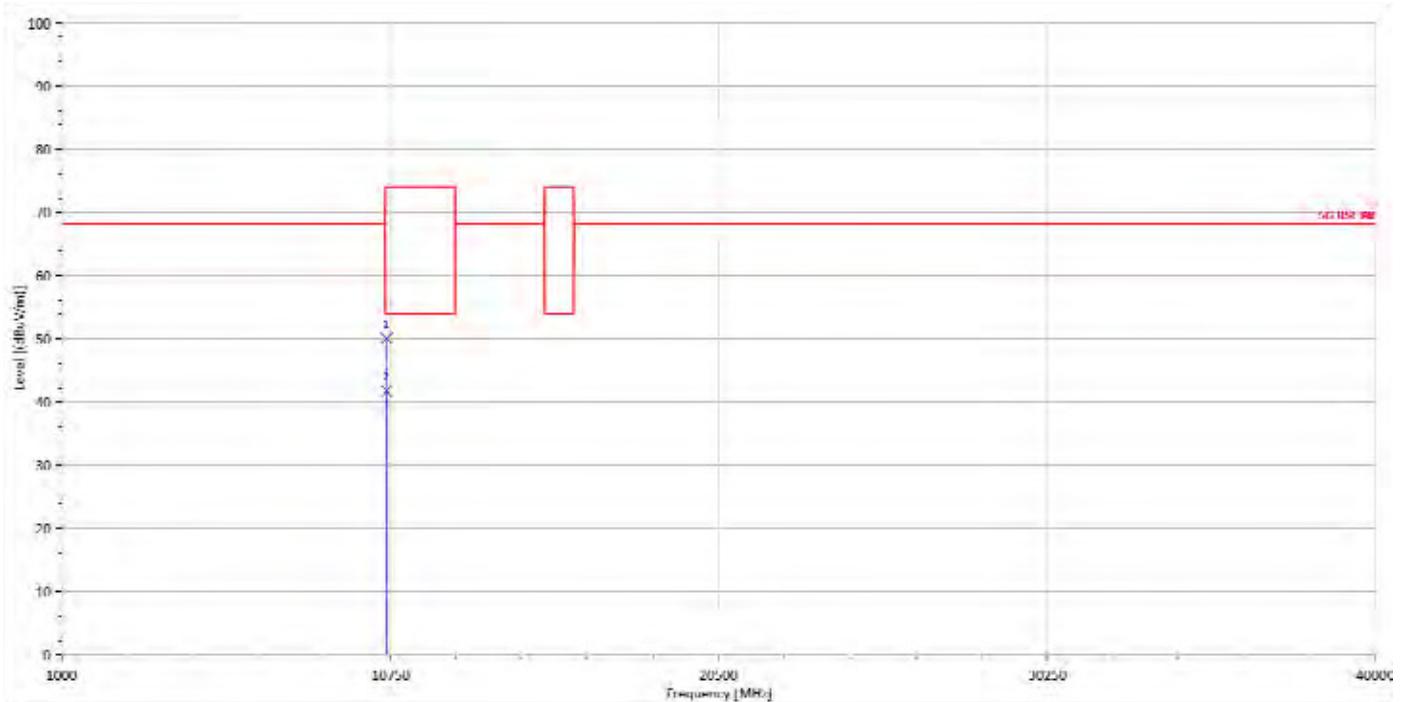
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 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	29.71	20.34	50.05	74	-23.95
10640.00	H	Average	21.35	20.34	41.69	54	-12.31

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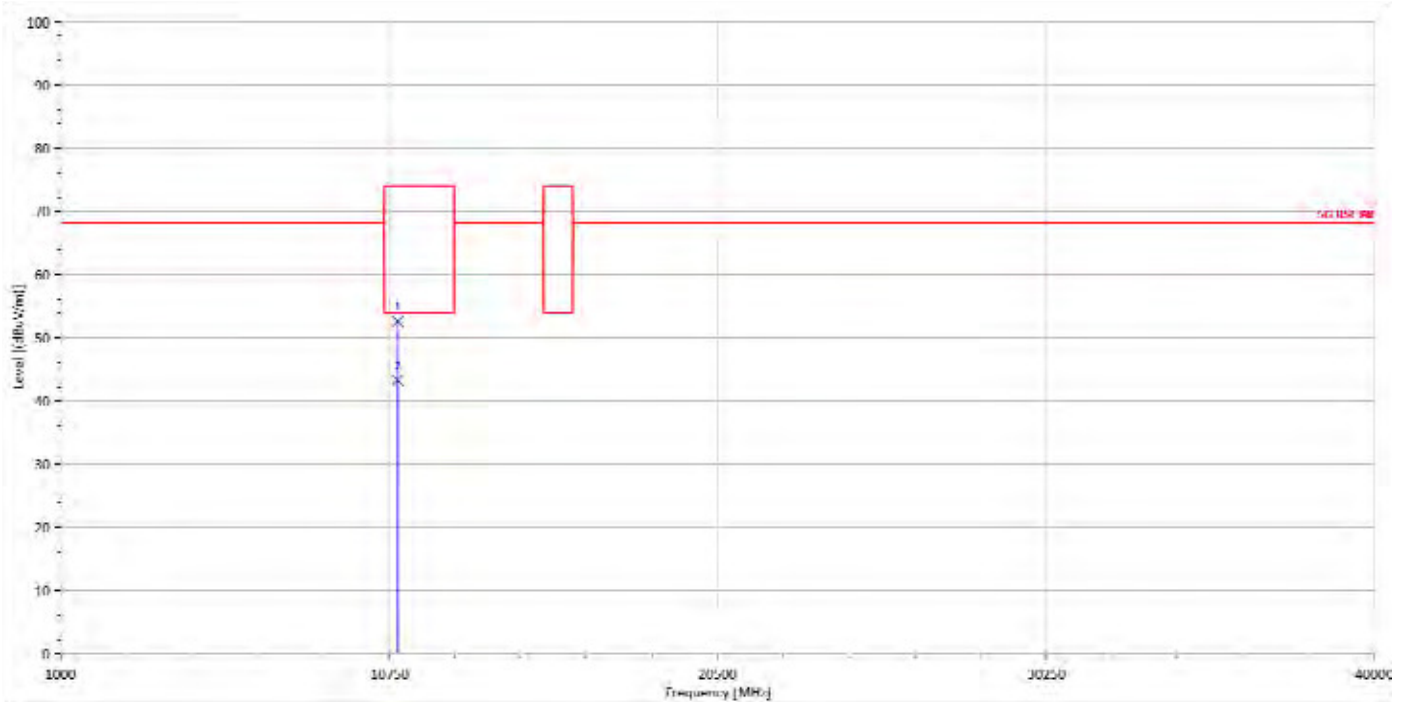
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20	Test Date :	2017/2/8
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	H	Peak	30.54	22.11	52.64	74	-21.36
11000.00	H	Average	21.12	22.11	43.23	54	-10.77

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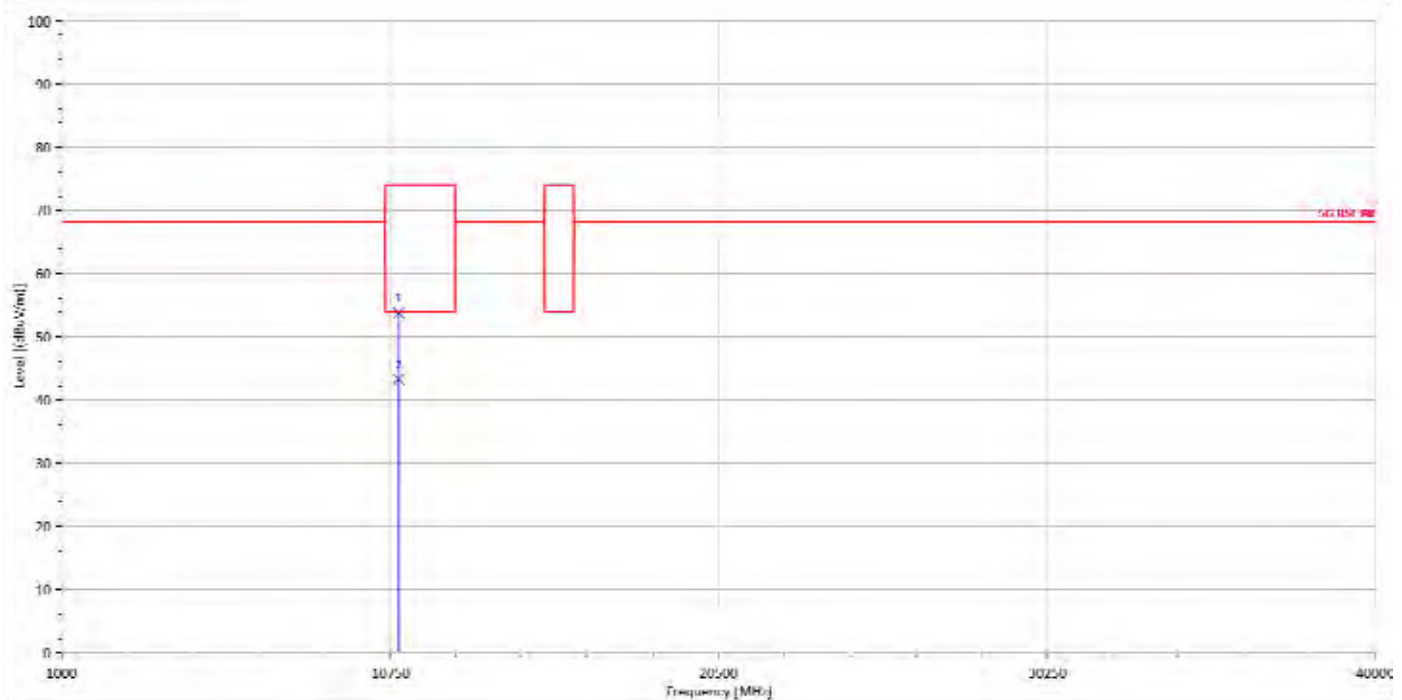
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	H	Peak	31.73	22.11	53.84	74	-20.16
11000.00	H	Average	21.11	22.11	43.22	54	-10.78

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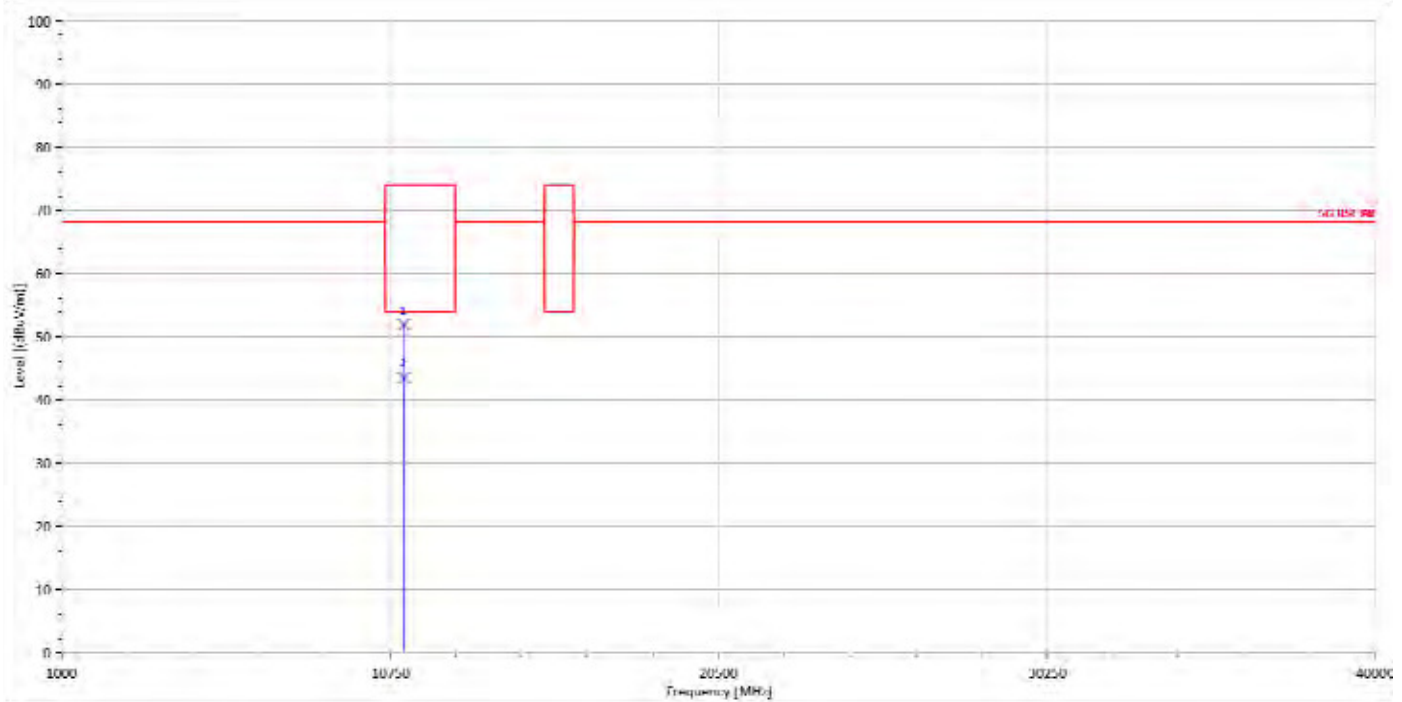
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.00	H	Peak	29.95	22.04	51.99	74	-22.01
11160.00	H	Average	21.40	22.04	43.44	54	-10.56

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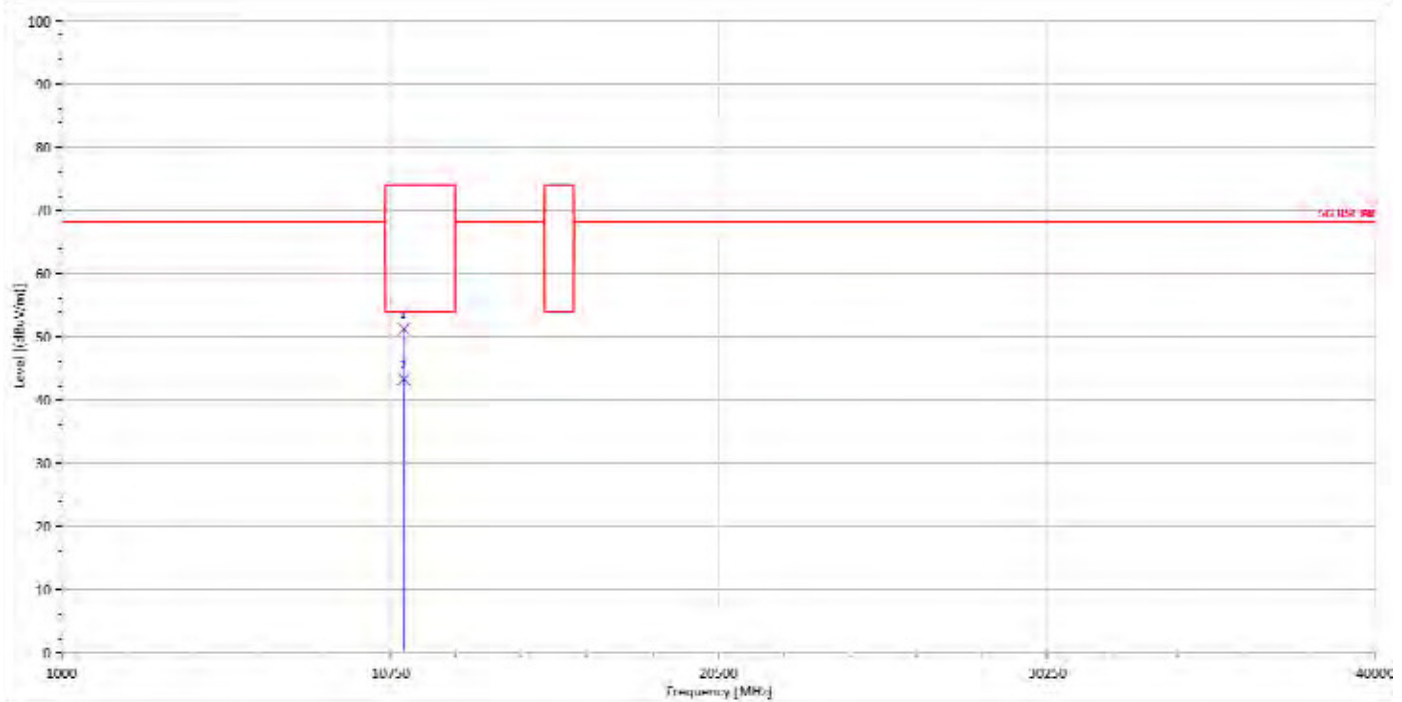
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.00	H	Peak	29.21	22.04	51.25	74	-22.75
11160.00	H	Average	21.17	22.04	43.21	54	-10.79

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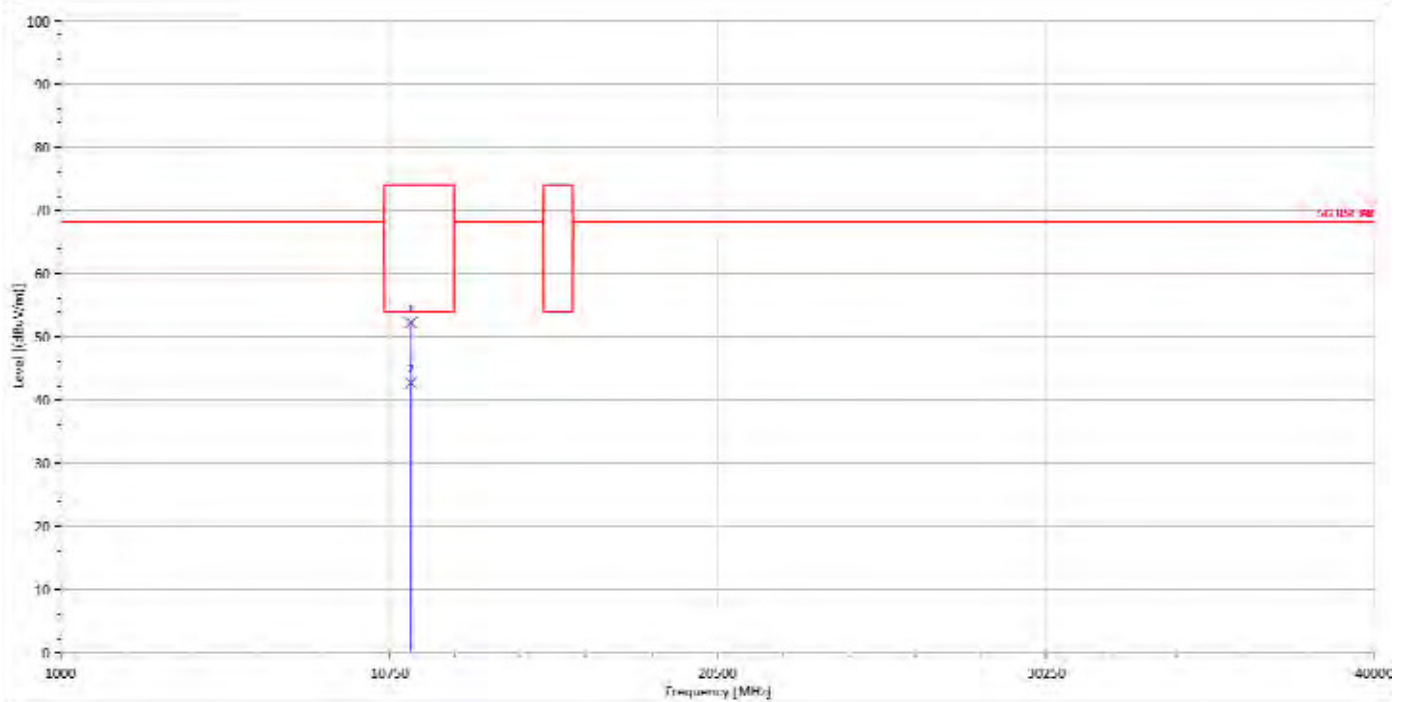
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11400.00	H	Peak	31.08	21.22	52.30	74	-21.70
11400.00	H	Average	21.43	21.22	42.65	54	-11.35

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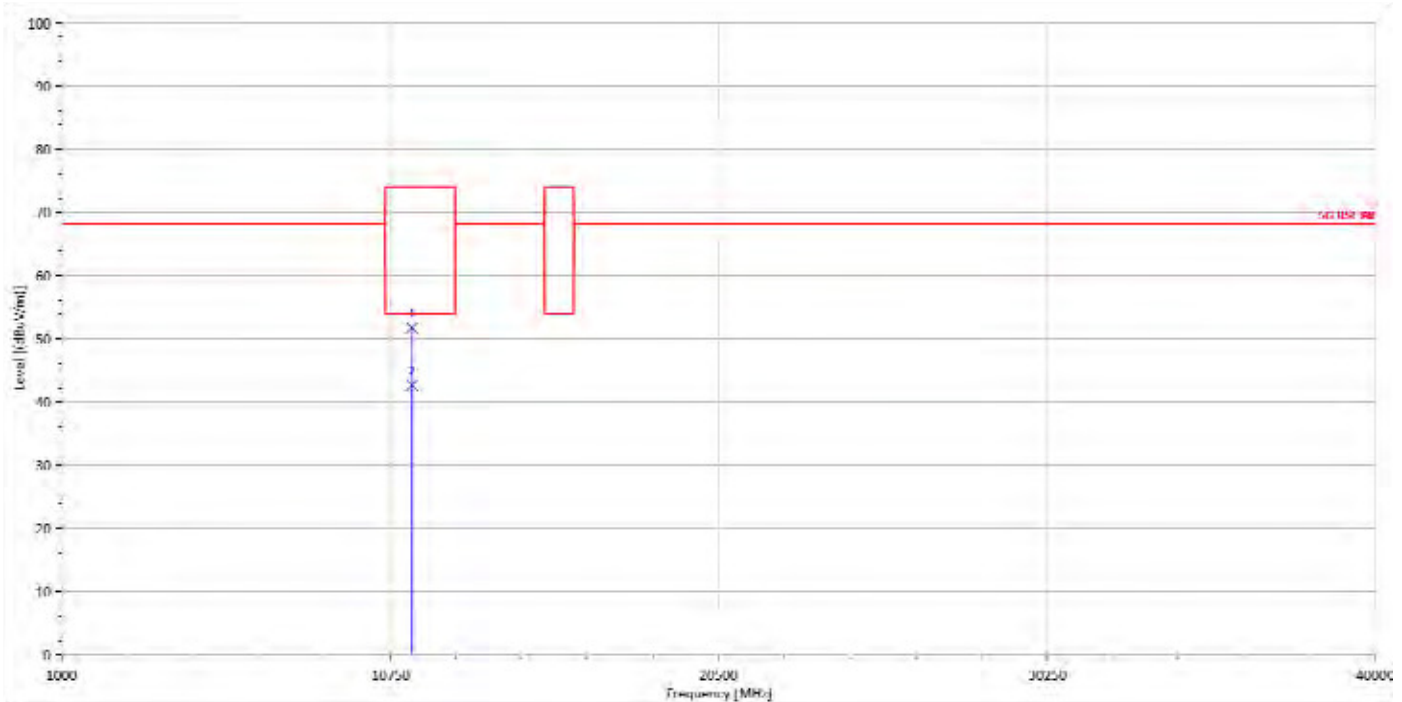
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	30.53	21.22	51.75	74	-22.25
11400.00	H	Average	21.35	21.22	42.57	54	-11.43

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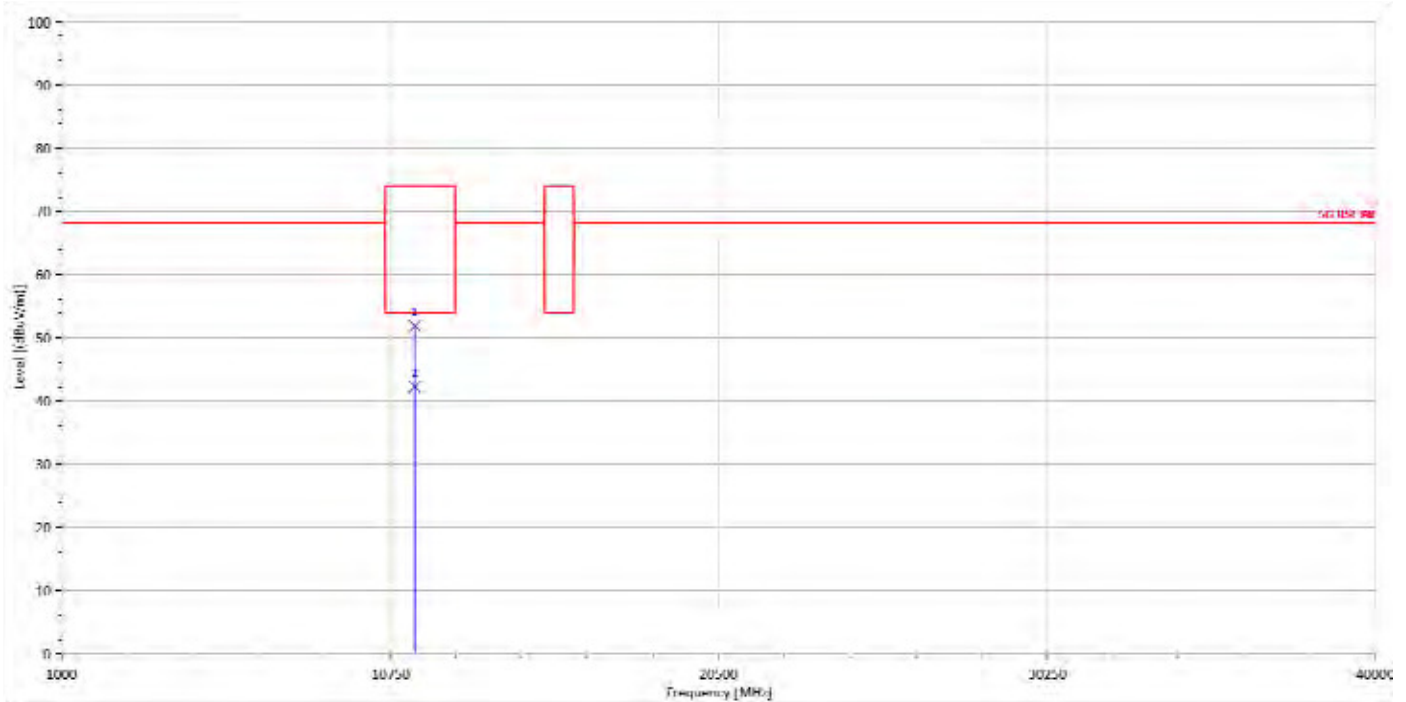
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20	Test Date :	2017/2/8
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	31.18	20.70	51.88	74	-22.12
11490.00	H	Average	21.46	20.70	42.16	54	-11.84

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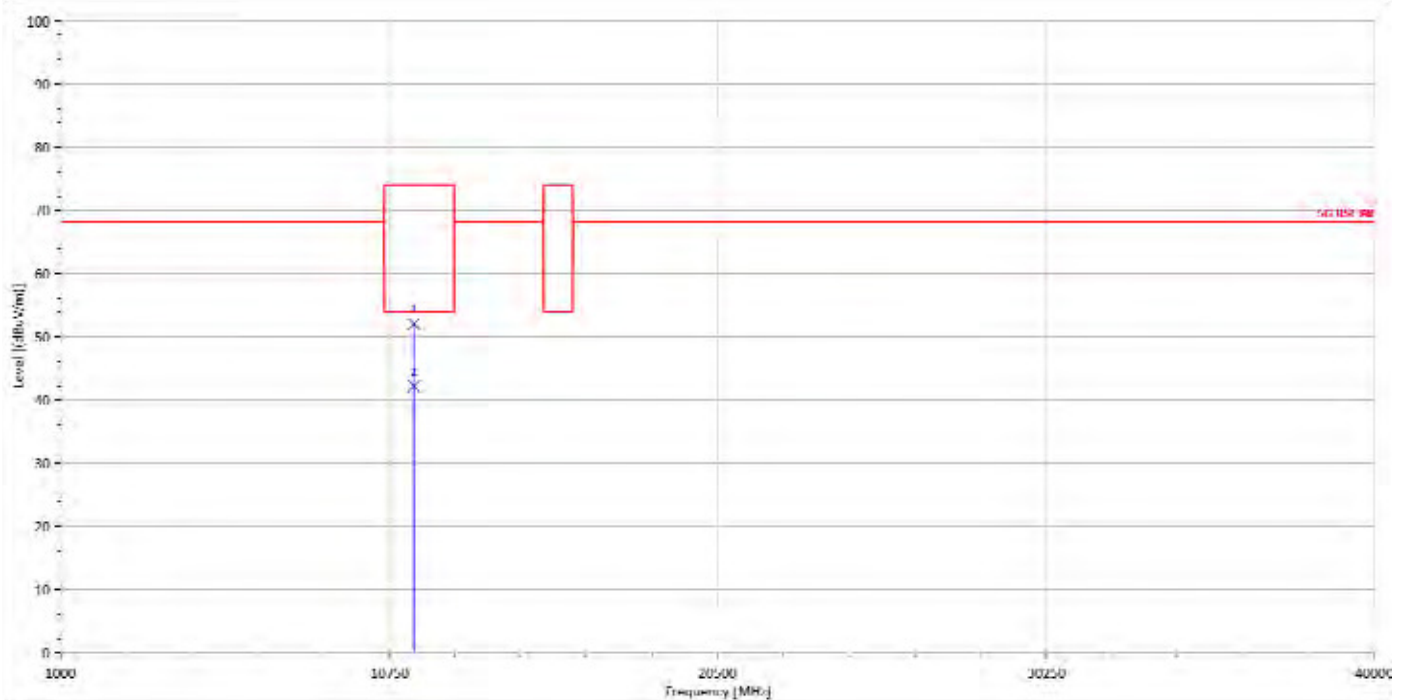
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	31.35	20.70	52.05	74	-21.95
11490.00	H	Average	21.42	20.70	42.12	54	-11.88

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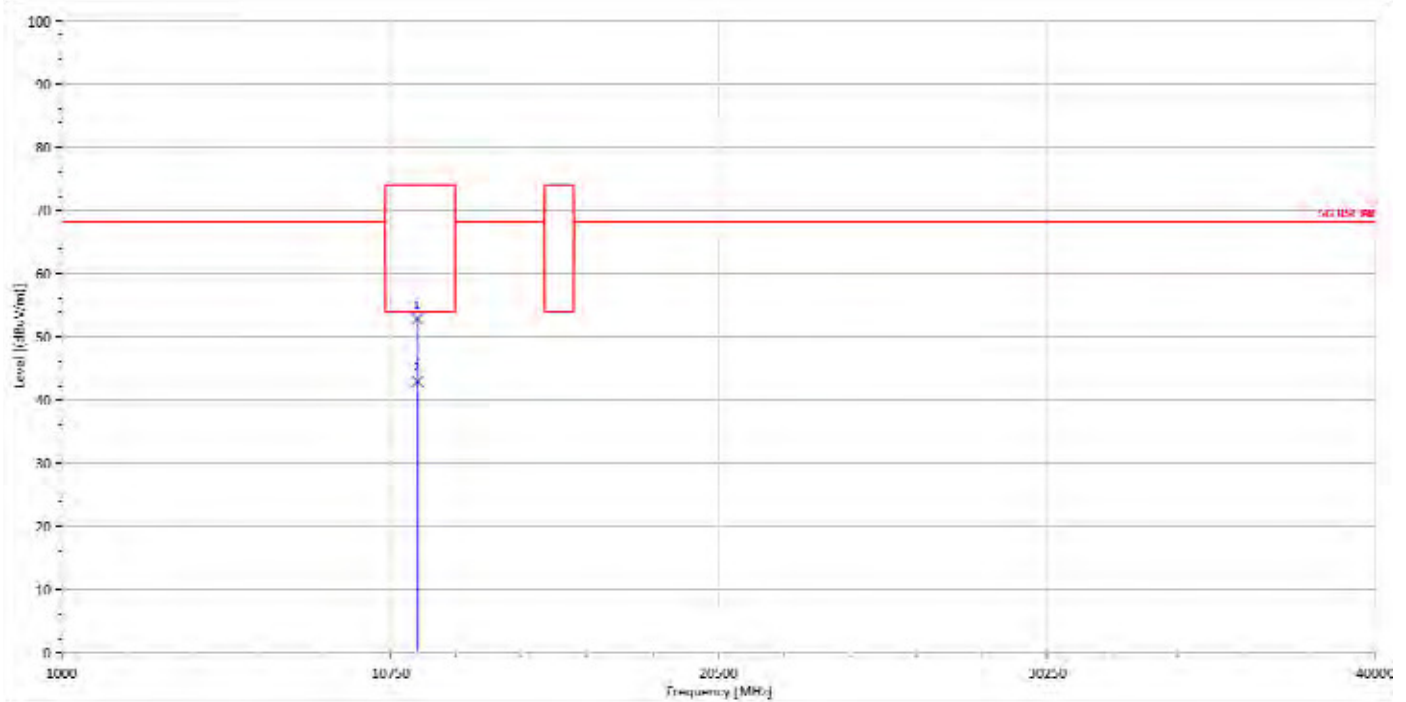
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11570.00	H	Peak	31.44	21.44	52.88	74	-21.12
11570.00	H	Average	21.40	21.44	42.84	54	-11.16

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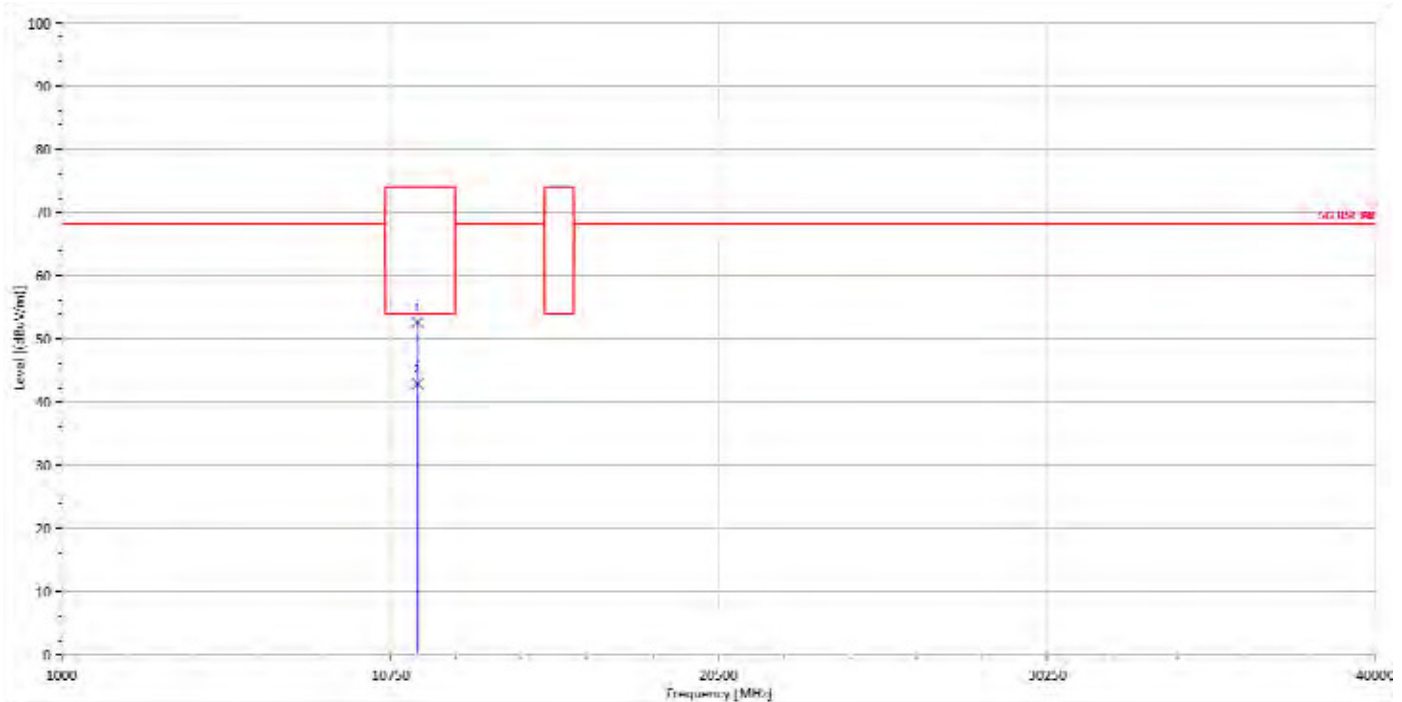
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11570.00	H	Peak	31.17	21.44	52.61	74	-21.39
11570.00	H	Average	21.36	21.44	42.80	54	-11.20

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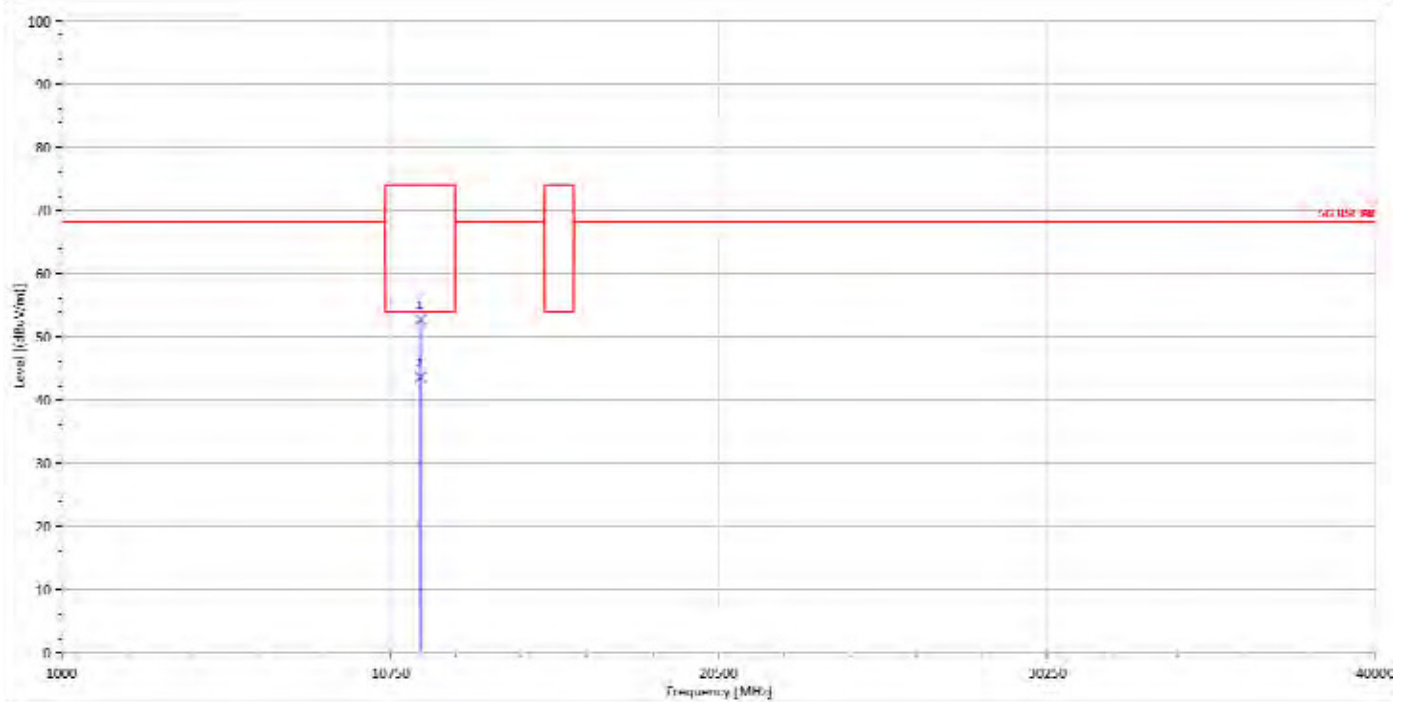
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11650.00	H	Peak	30.74	22.02	52.77	74	-21.23
11650.00	H	Average	21.52	22.02	43.54	54	-10.46

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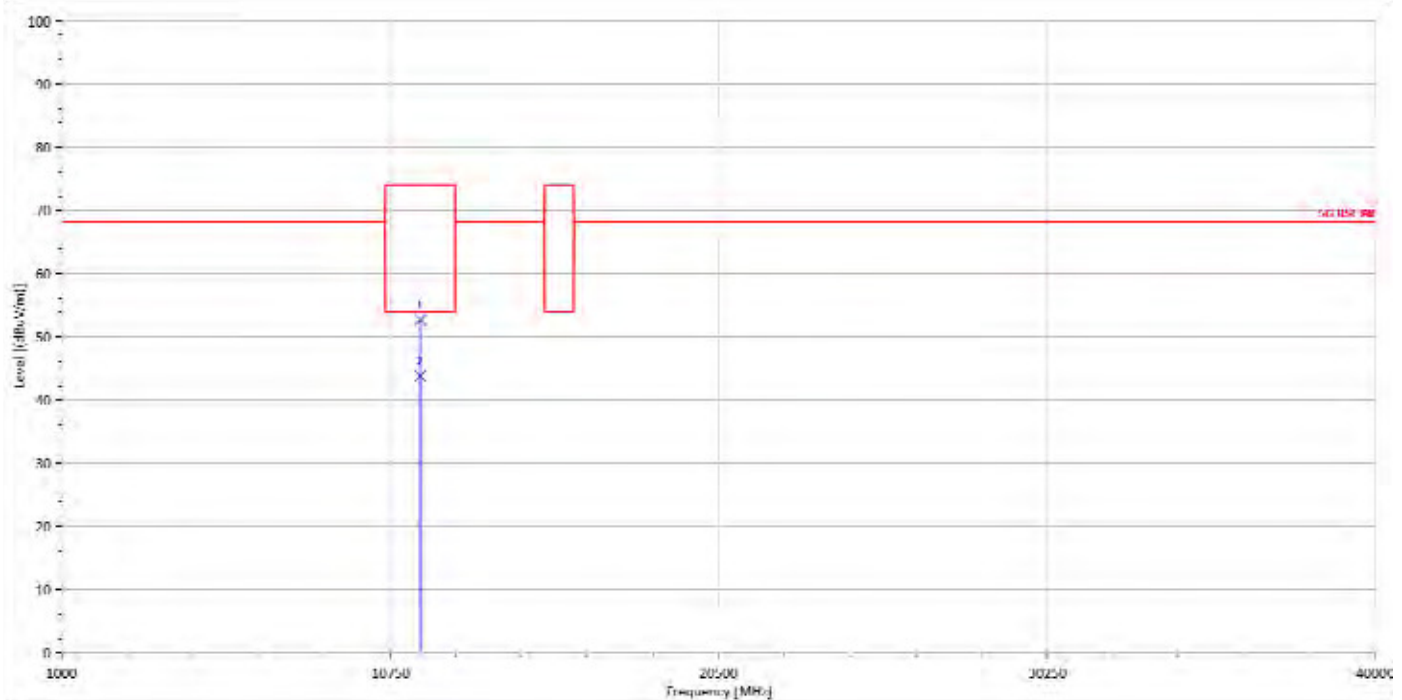
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11650.00	H	Peak	30.70	22.02	52.72	74	-21.28
11650.00	H	Average	21.70	22.02	43.72	54	-10.28

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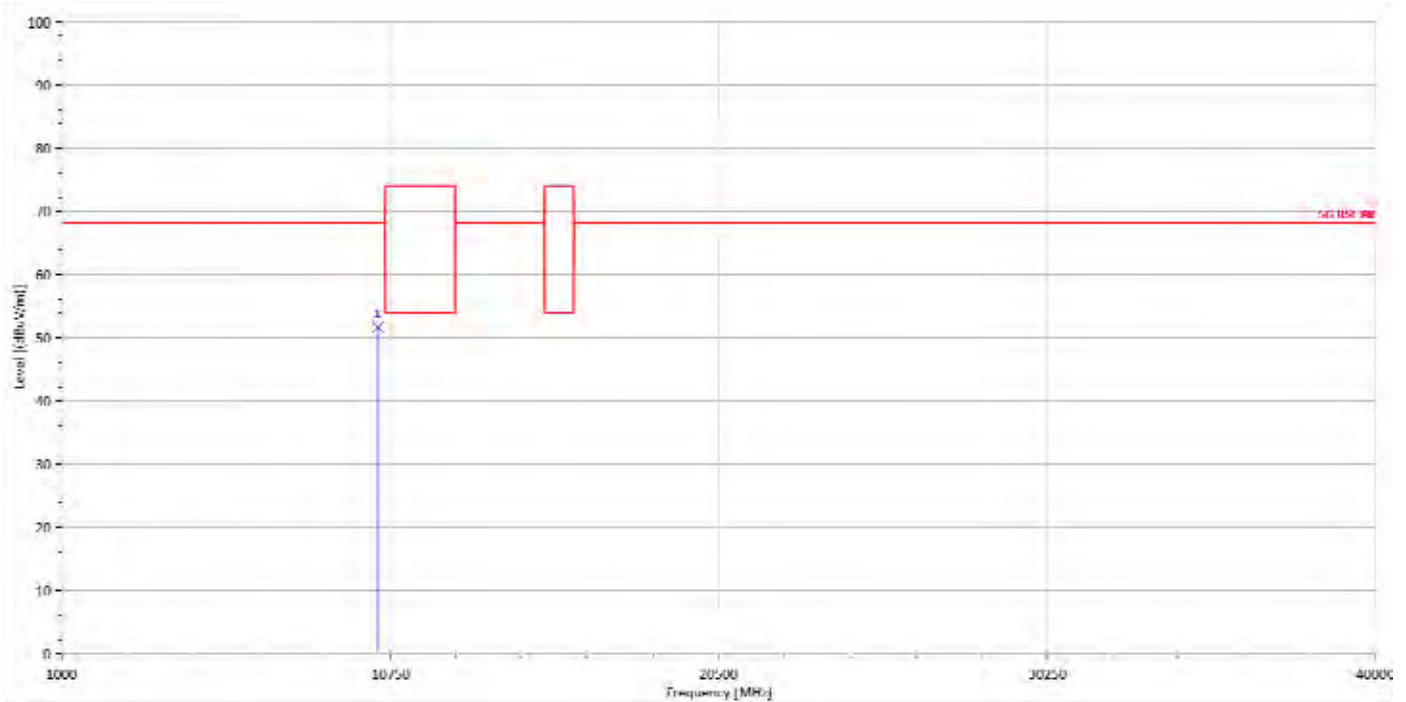
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40	Test Date :	2017/2/8
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	H	Peak	30.70	20.95	51.66	68.3	-16.64

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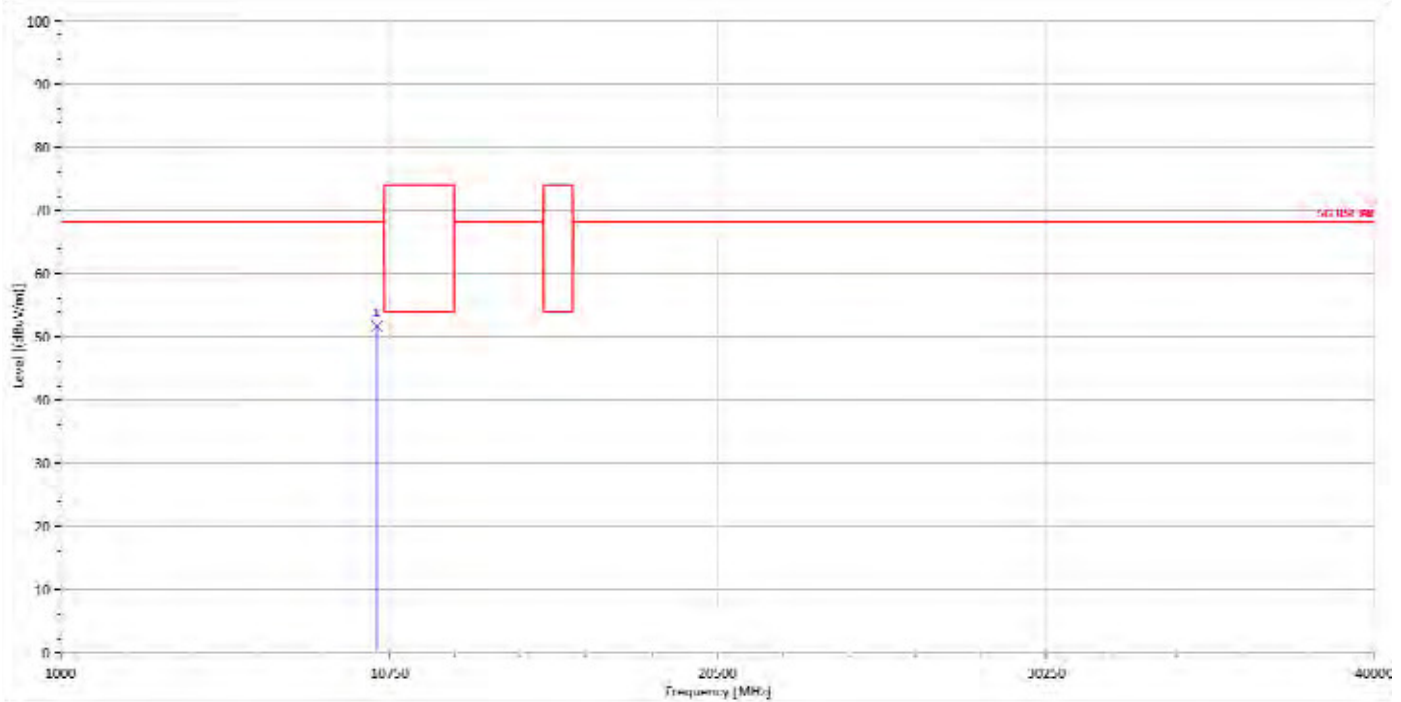
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Operation Mode : 802.11n40 Test Date : 2017/2/8
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	H	Peak	30.73	20.95	51.68	68.3	-16.62

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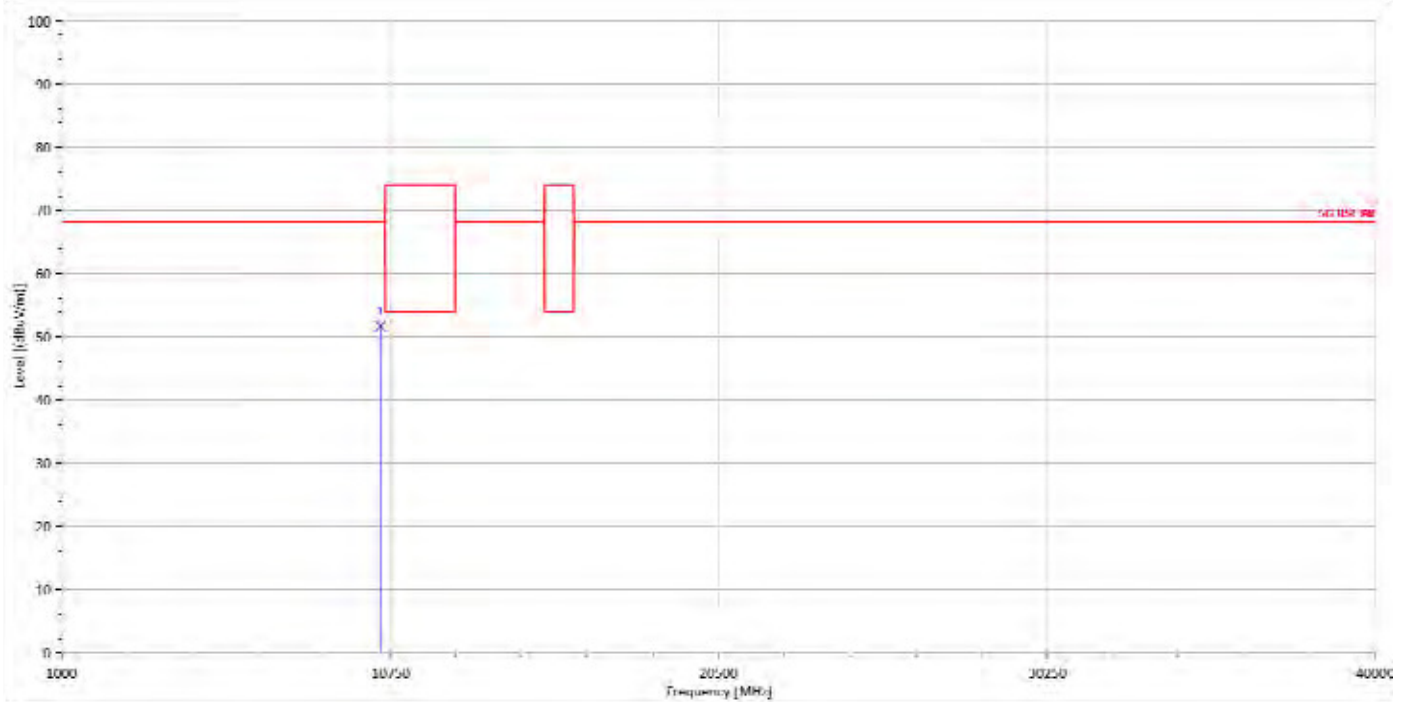
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Operation Mode : 802.11n40 Test Date : 2017/2/8
 Fundamental Frequency : 5230 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	H	Peak	30.75	20.95	51.70	68.3	-16.60

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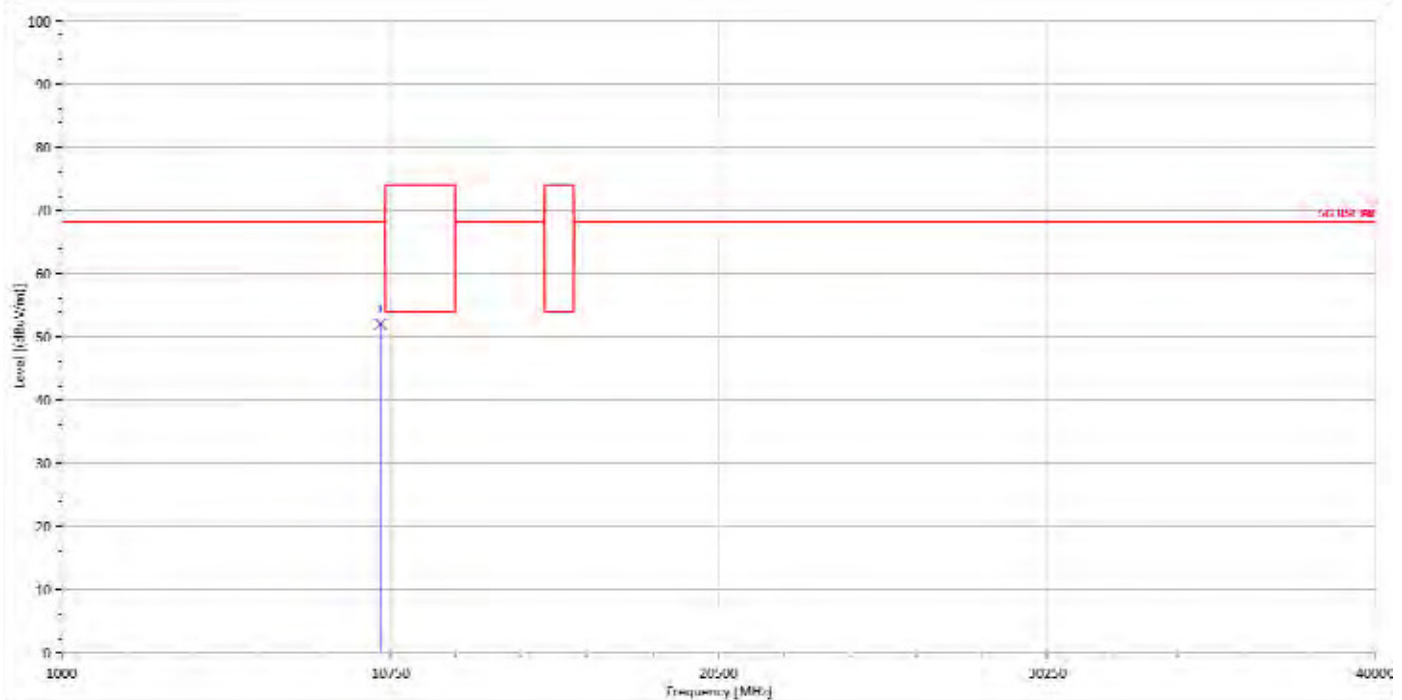
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Operation Mode : 802.11n40 Test Date : 2017/2/8
 Fundamental Frequency : 5230 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	H	Peak	31.08	20.95	52.04	68.3	-16.26

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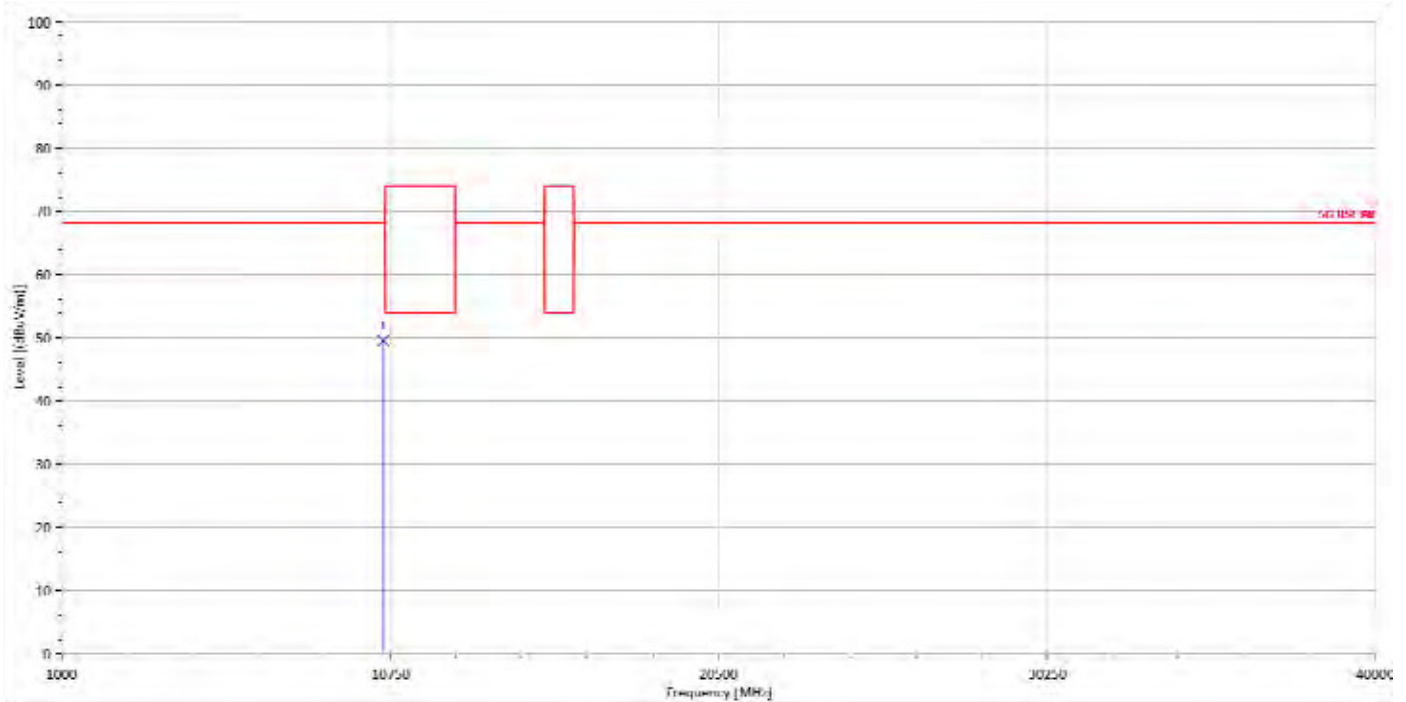
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode :	802.11n40	Test Date :	2017/2/8
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10540.00	H	Peak	29.50	20.06	49.56	68.3	-18.74

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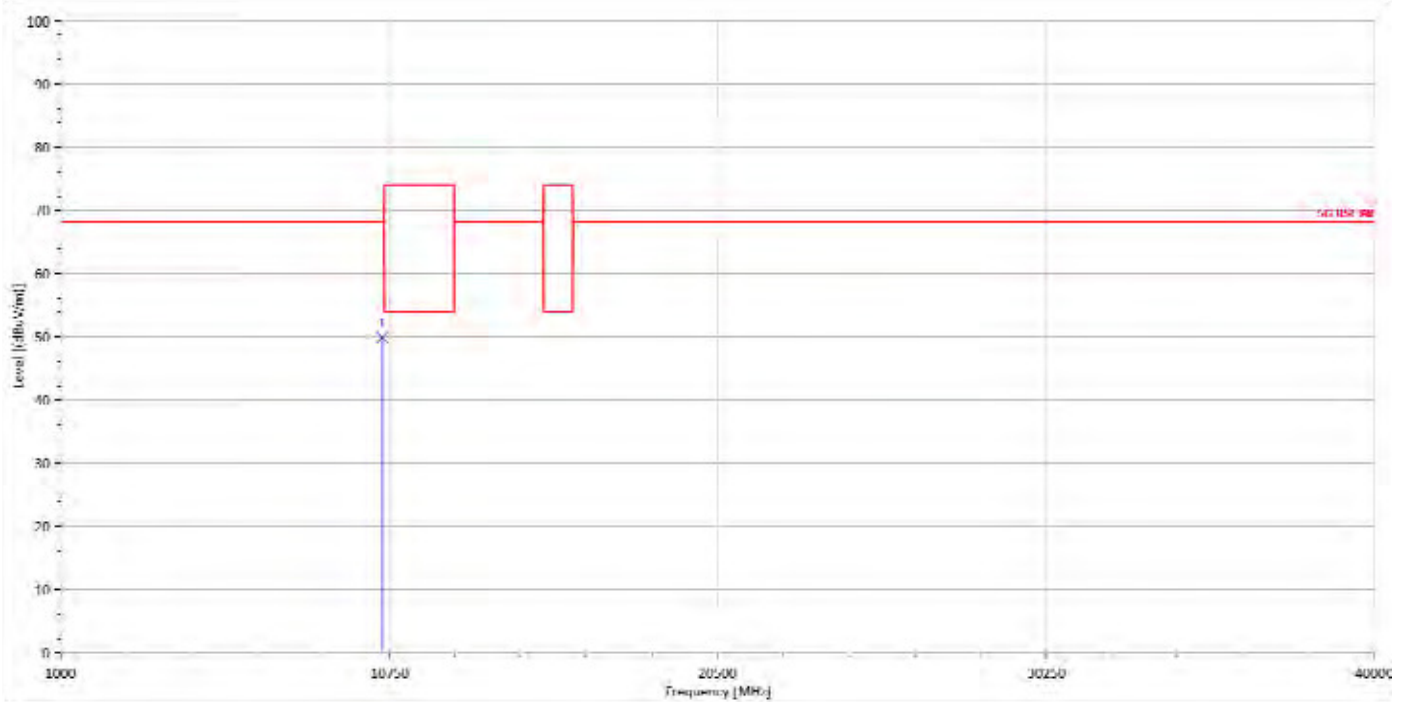
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Operation Mode : 802.11n40 Test Date : 2017/2/8
 Fundamental Frequency : 5270 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	H	Peak	29.81	20.06	49.87	68.3	-18.43

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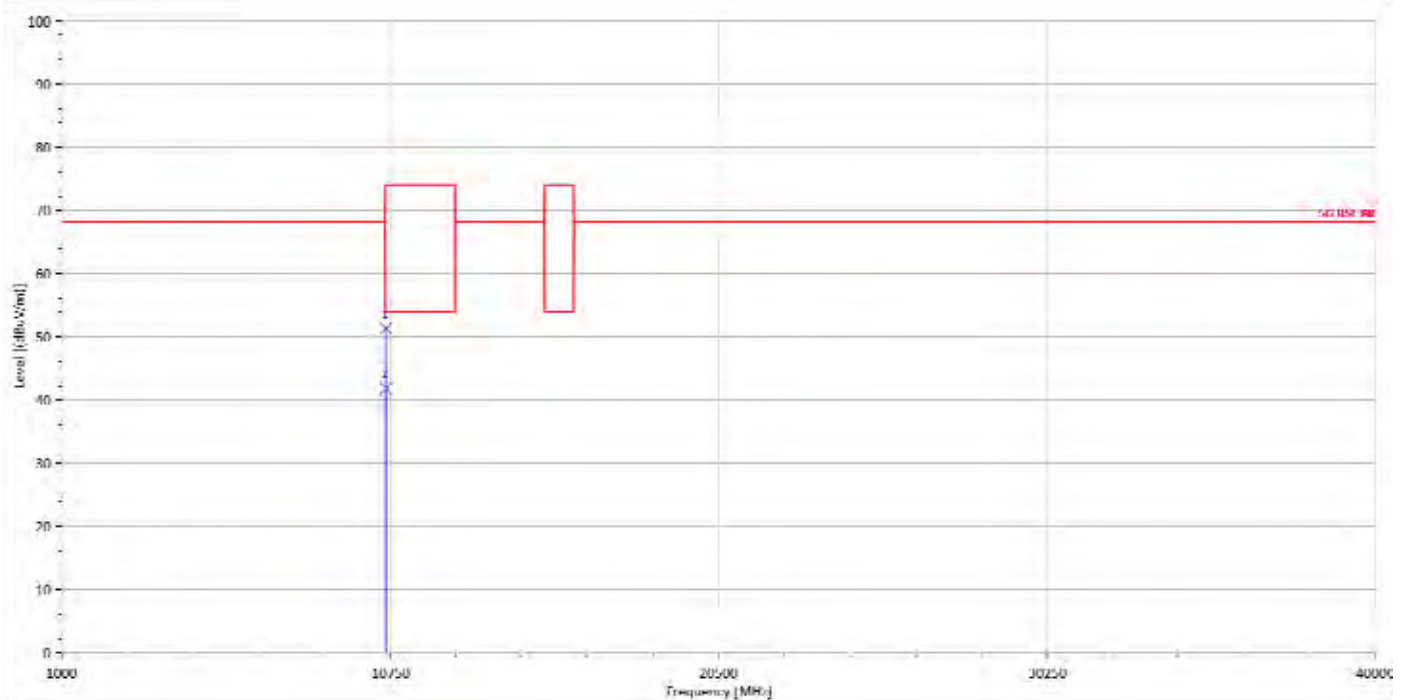
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Operation Mode : 802.11n40 Test Date : 2017/2/8
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	H	Peak	31.05	20.29	51.34	74	-22.66
10620.00	H	Average	21.49	20.29	41.78	54	-12.22

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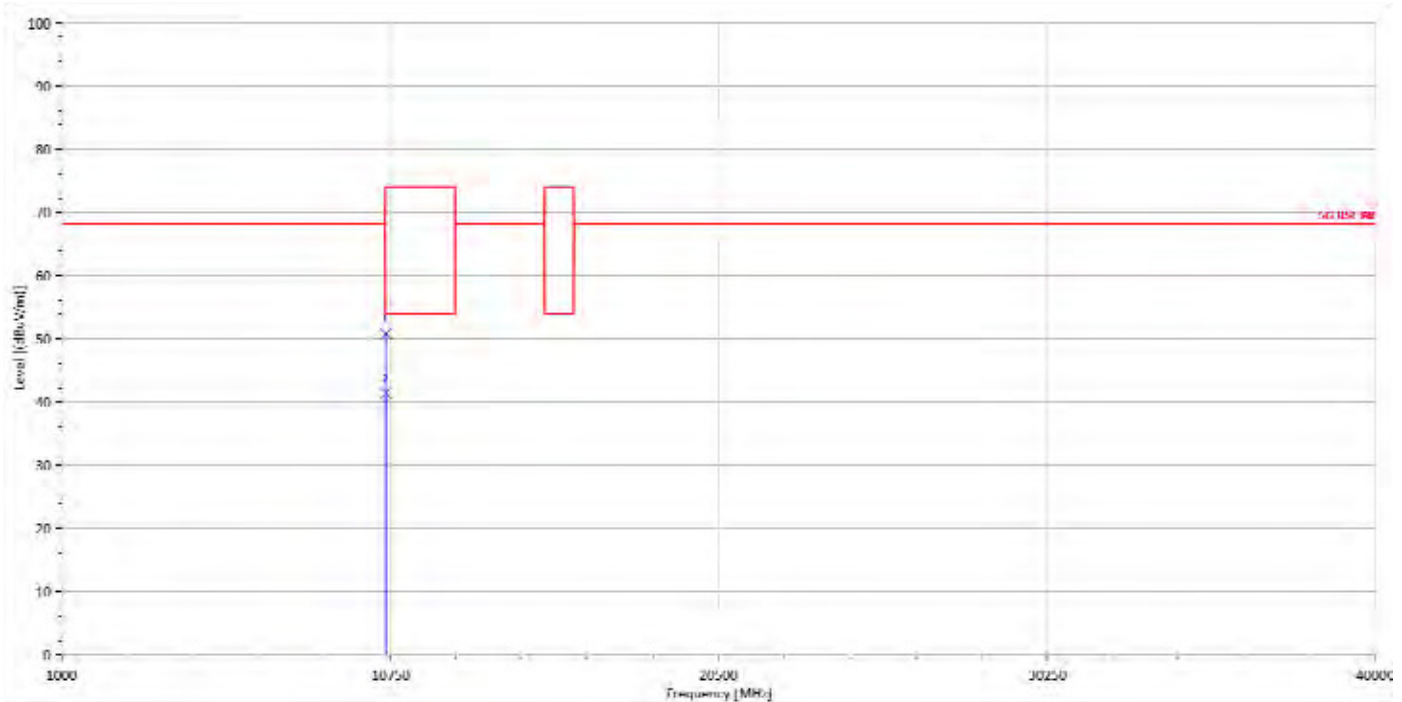
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Operation Mode : 802.11n40 Test Date : 2017/2/8
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10620.00	H	Peak	30.52	20.29	50.81	74	-23.19
10620.00	H	Average	21.08	20.29	41.37	54	-12.63

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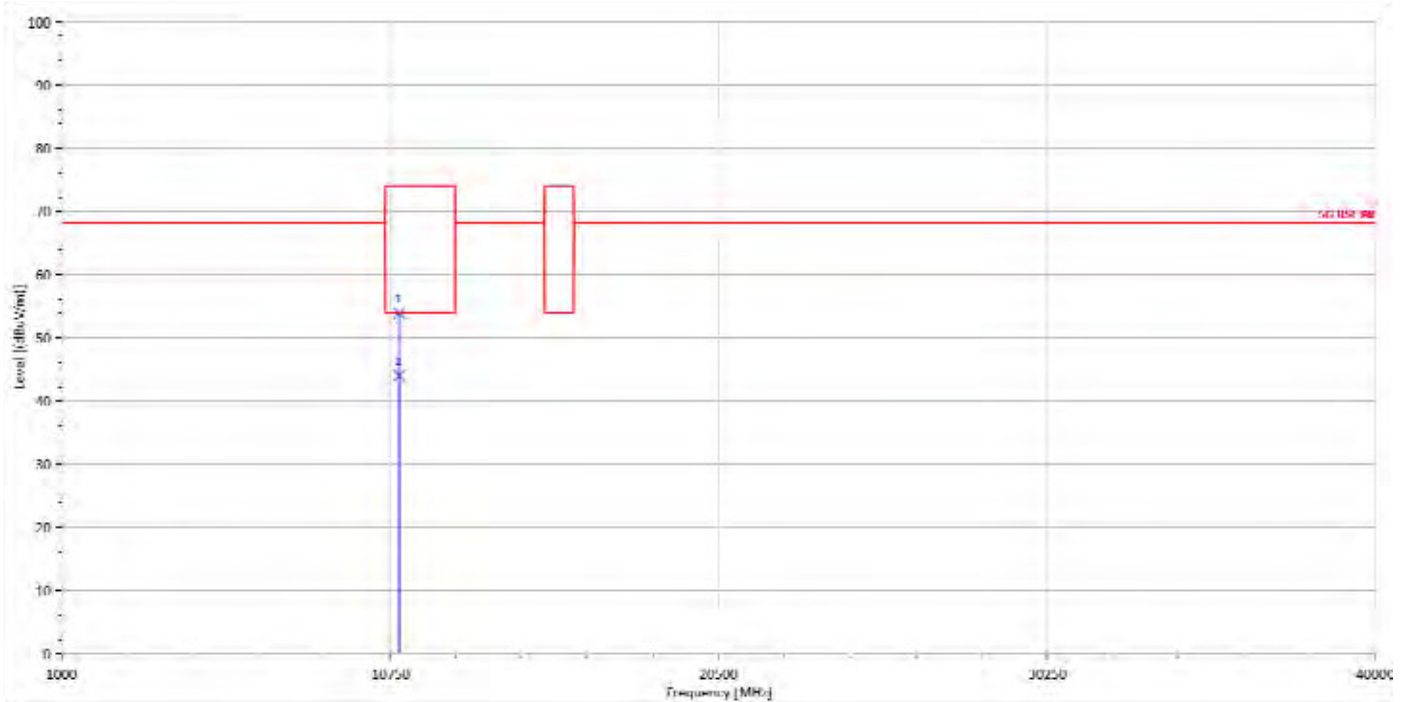
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode :	802.11n40	Test Date :	2017/2/8
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	H	Peak	31.04	22.90	53.94	74	-20.06
11020.00	H	Average	21.04	22.90	43.94	54	-10.06

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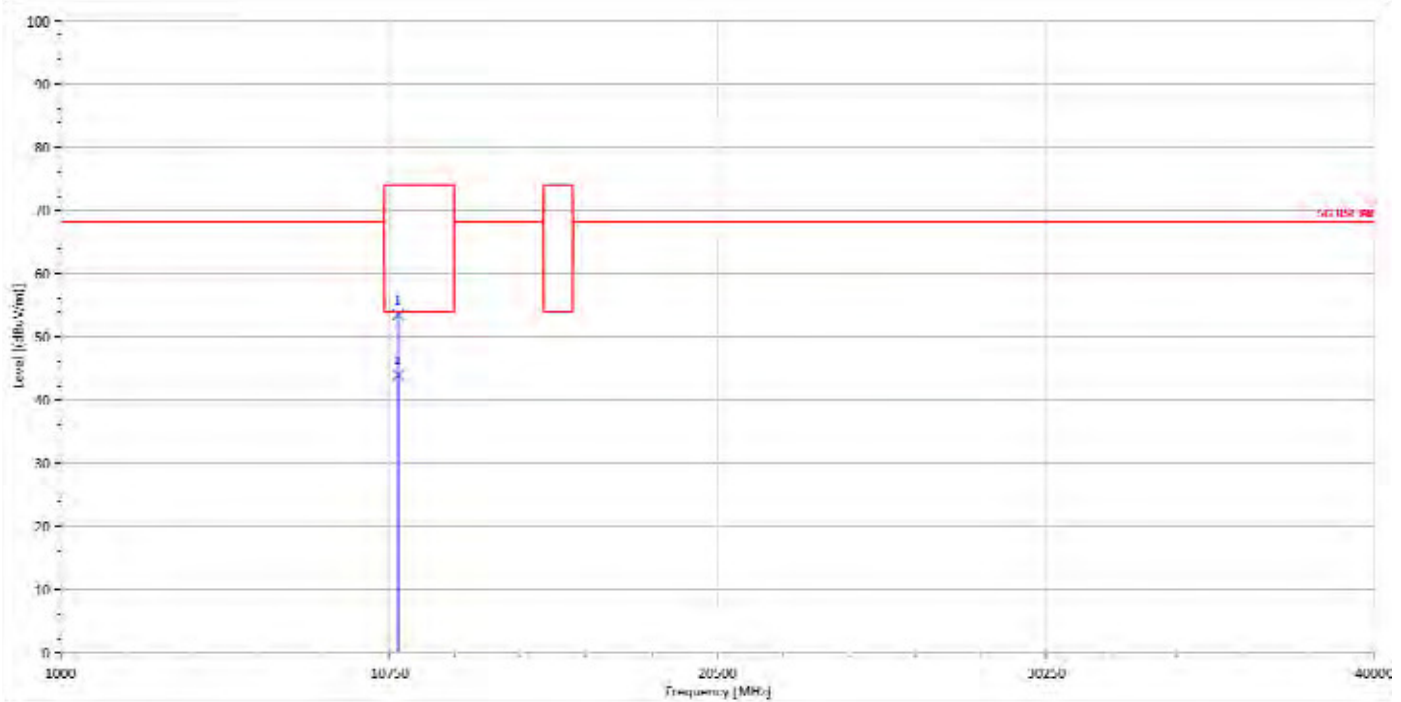
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Operation Mode : 802.11n40 Test Date : 2017/2/8
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11020.00	H	Peak	30.58	22.90	53.48	74	-20.52
11020.00	H	Average	20.98	22.90	43.88	54	-10.12

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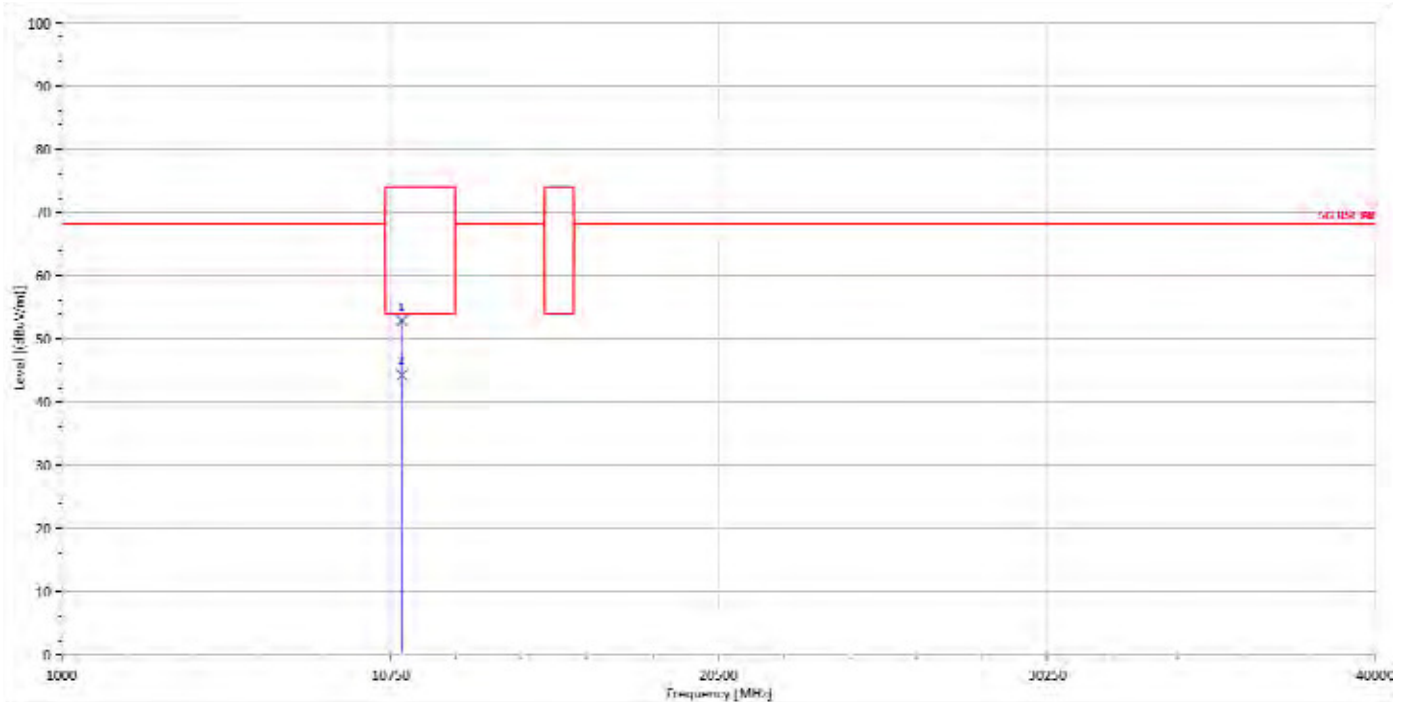
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Operation Mode : 802.11n40 Test Date : 2017/2/8
 Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	H	Peak	29.73	23.16	52.90	74	-21.10
11100.00	H	Average	21.04	23.16	44.20	54	-9.80

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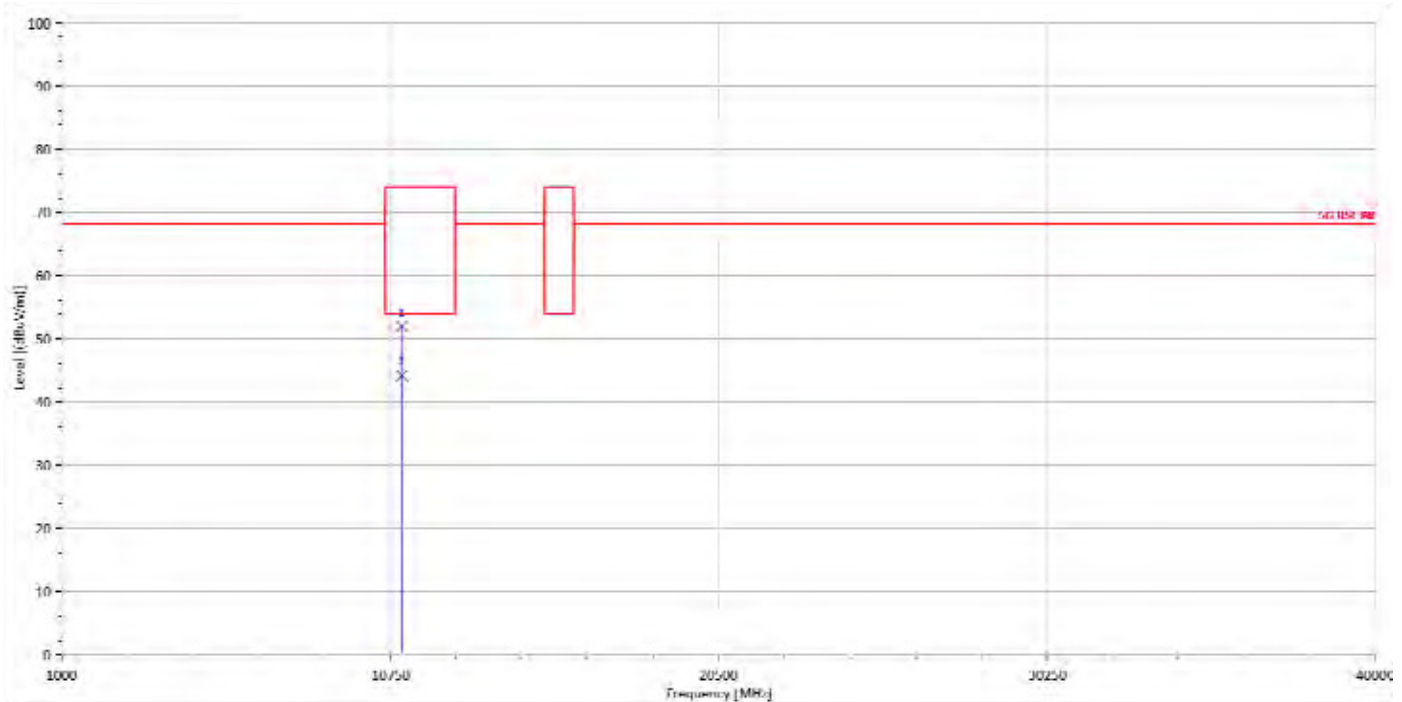
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Operation Mode : 802.11n40 Test Date : 2017/2/8
 Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11100.00	H	Peak	28.82	23.16	51.99	74	-22.01
11100.00	H	Average	20.95	23.16	44.11	54	-9.89

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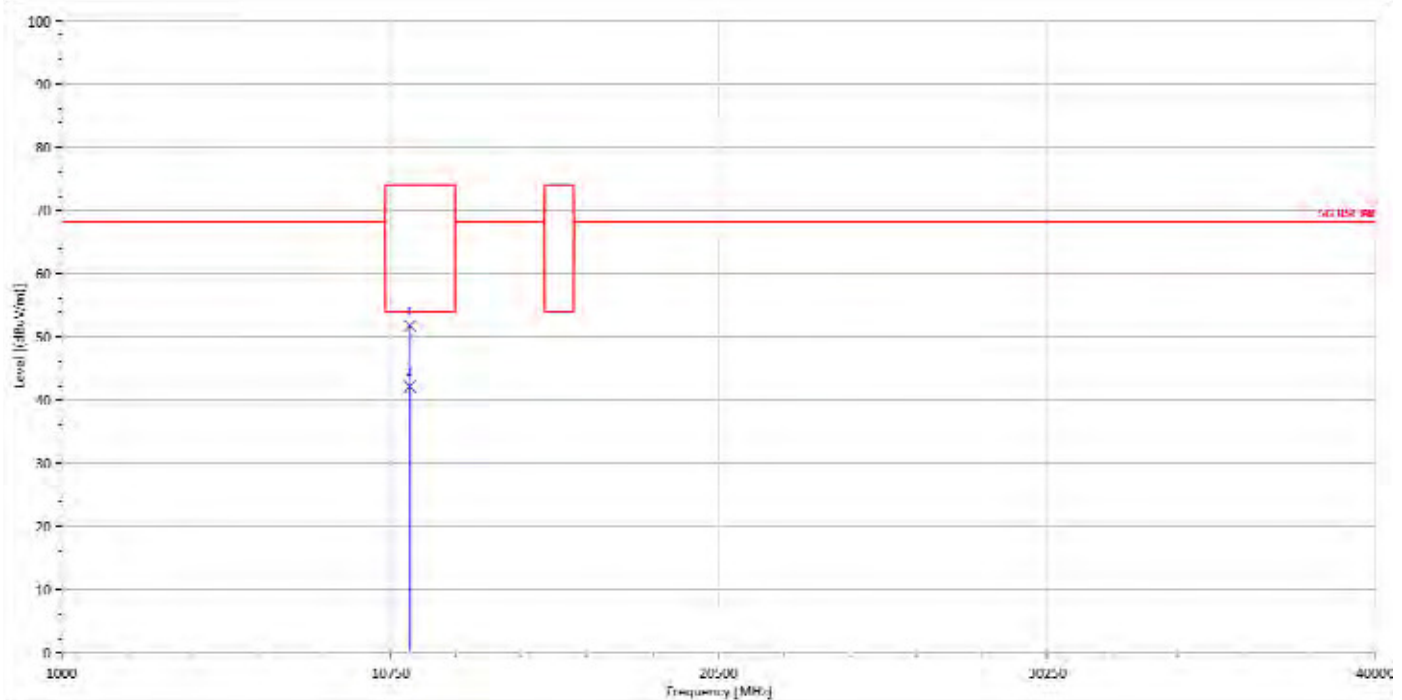
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Operation Mode : 802.11n40 Test Date : 2017/2/8
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11340.00	H	Peak	30.79	20.97	51.76	74	-22.24
11340.00	H	Average	21.09	20.97	42.06	54	-11.94

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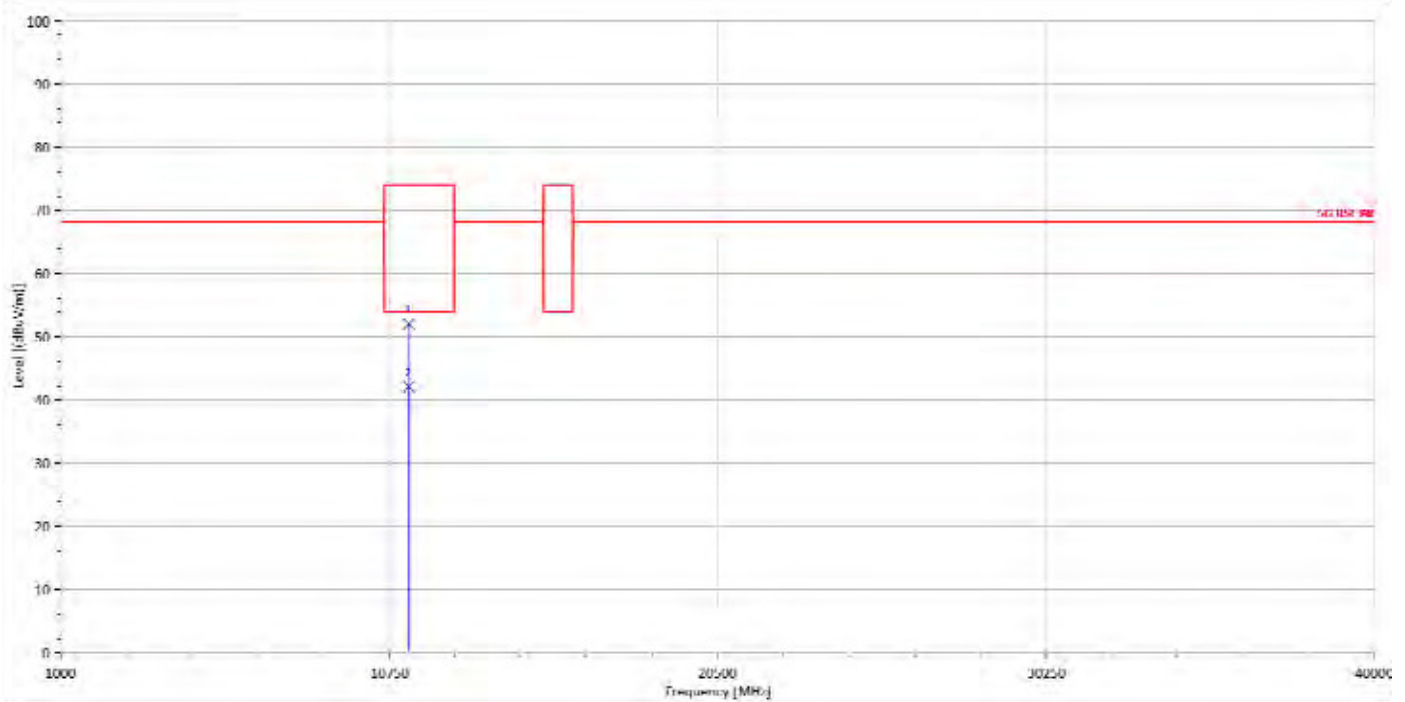
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Operation Mode : 802.11n40 Test Date : 2017/2/8
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	H	Peak	31.09	20.97	52.06	74	-21.94
11340.00	H	Average	21.07	20.97	42.04	54	-11.96

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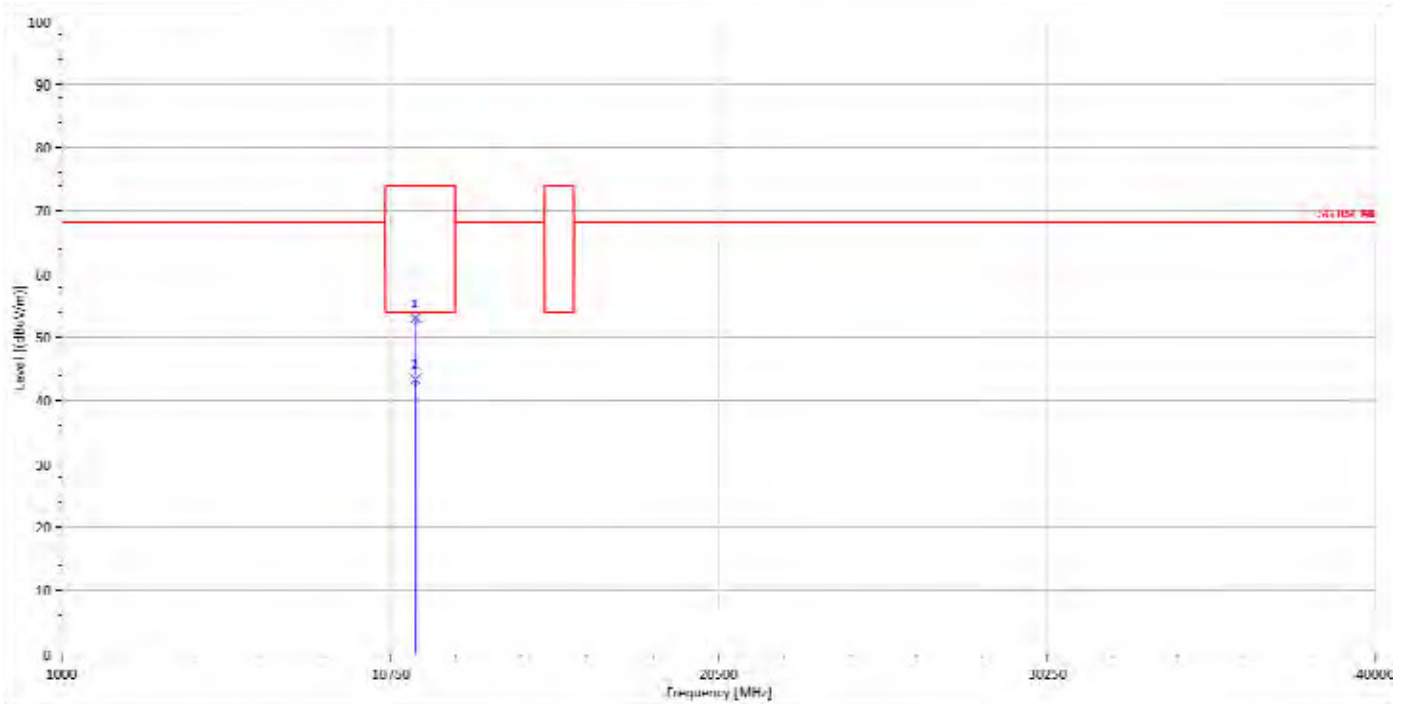
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11n40	Test Date :	2017/2/8
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	H	Peak	31.00	22.17	53.17	74	-20.83
11510.00	H	Average	21.28	22.17	43.45	54	-10.55

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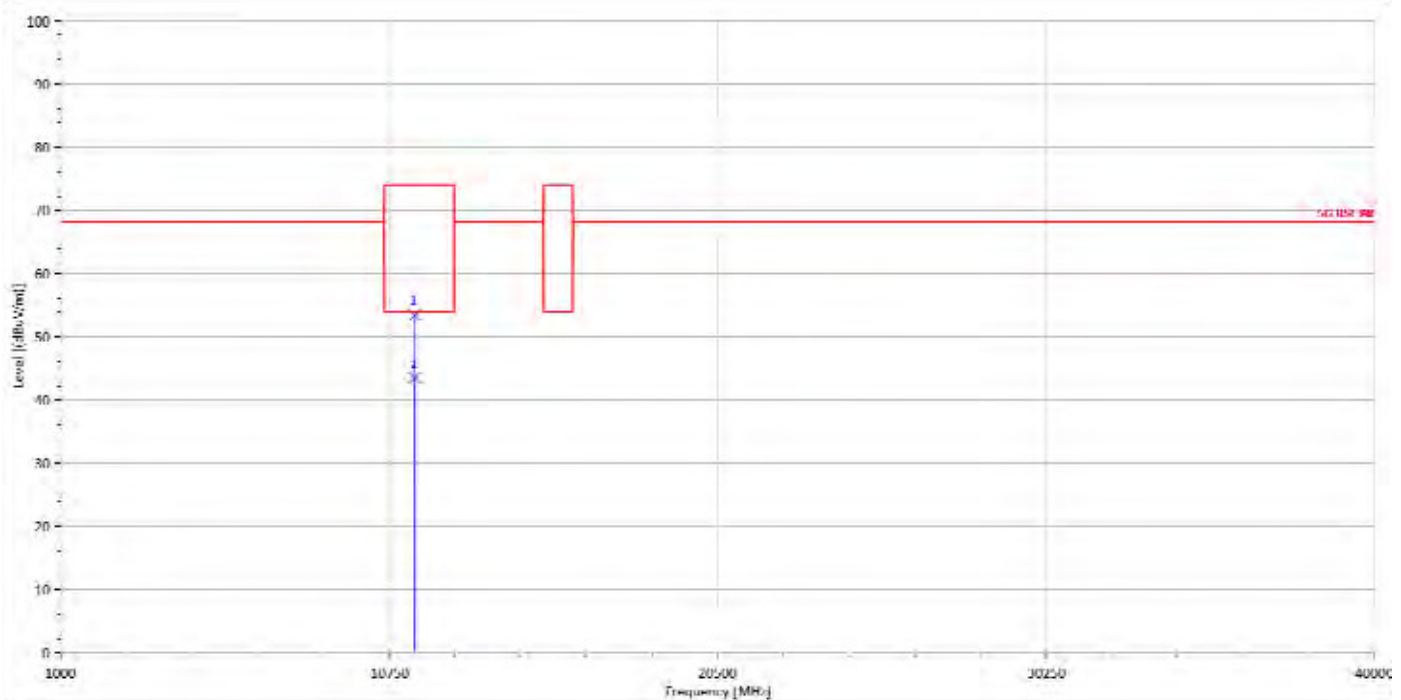
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Operation Mode : 802.11n40 Test Date : 2017/2/8
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11510.00	H	Peak	31.32	22.17	53.48	74	-20.52
11510.00	H	Average	21.24	22.17	43.41	54	-10.59

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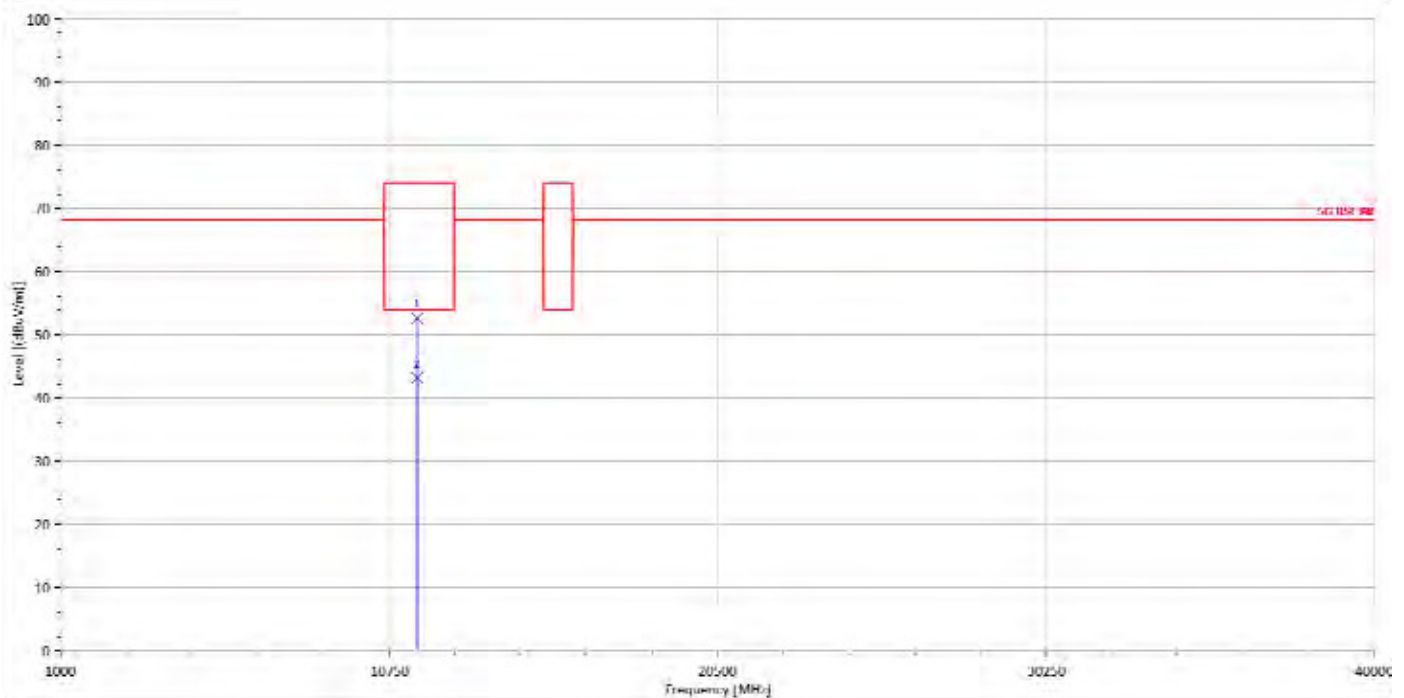
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Operation Mode : 802.11n40 Test Date : 2017/2/8
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11590.00	H	Peak	30.79	21.84	52.63	74	-21.37
11590.00	H	Average	21.25	21.84	43.09	54	-10.91

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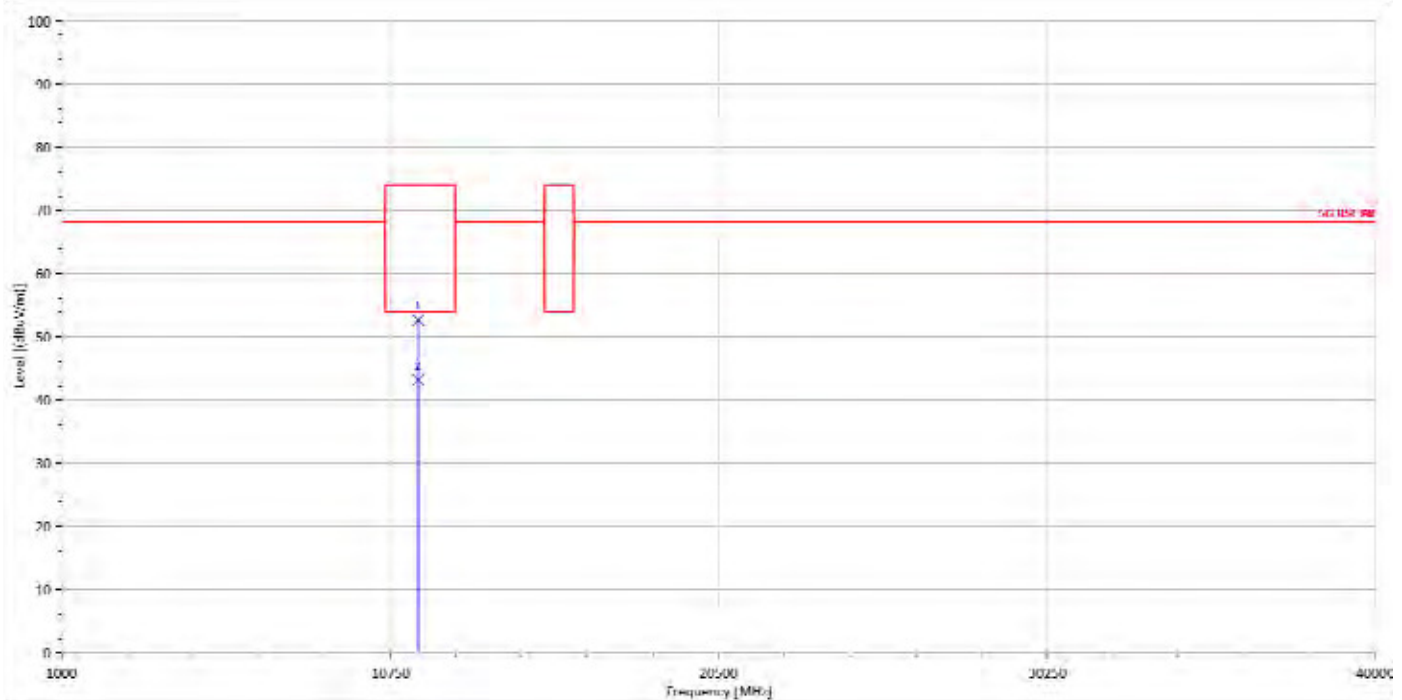
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Operation Mode : 802.11n40 Test Date : 2017/2/8
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11590.00	H	Peak	30.83	21.84	52.67	74	-21.33
11590.00	H	Average	21.23	21.84	43.07	54	-10.93

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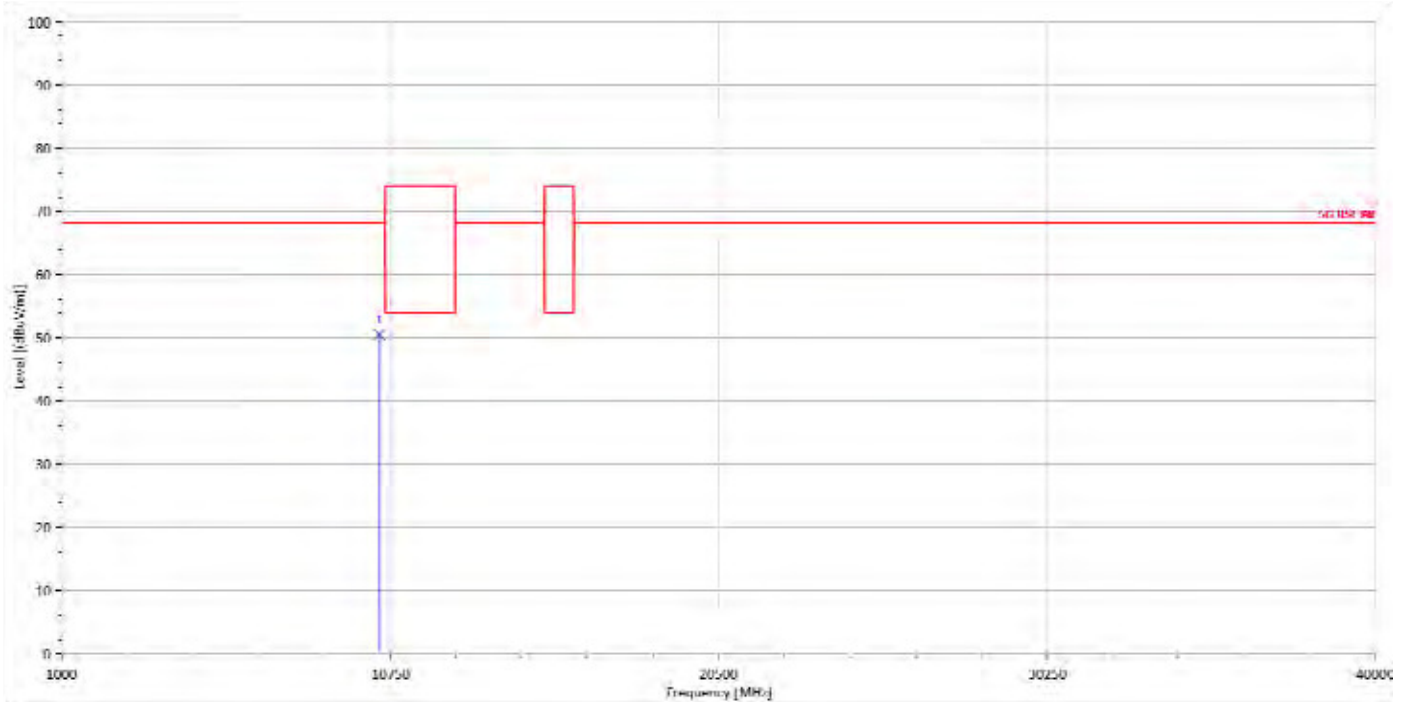
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80	Test Date :	2017/2/8
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	H	Peak	29.83	20.67	50.49	68.3	-17.81

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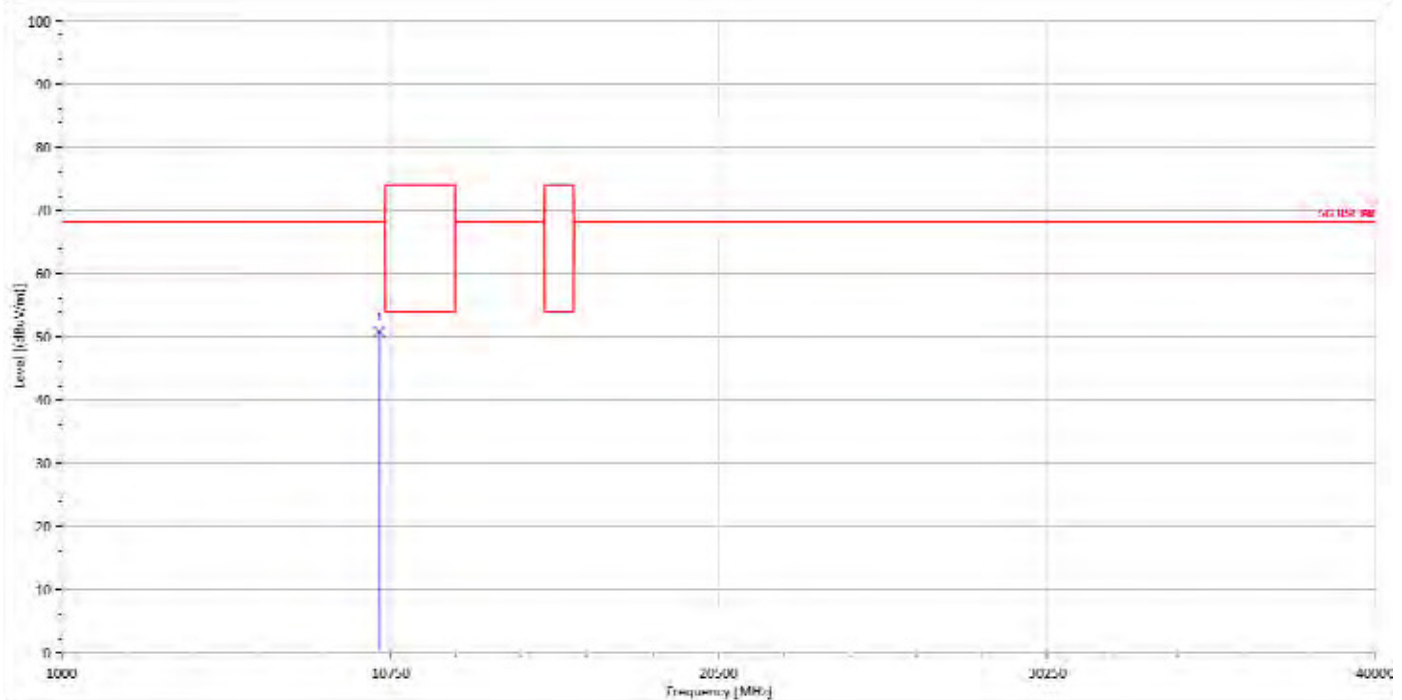
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Operation Mode :	802.11ac80	Test Date :	2017/2/8
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	H	Peak	30.15	20.67	50.82	68.3	-17.48

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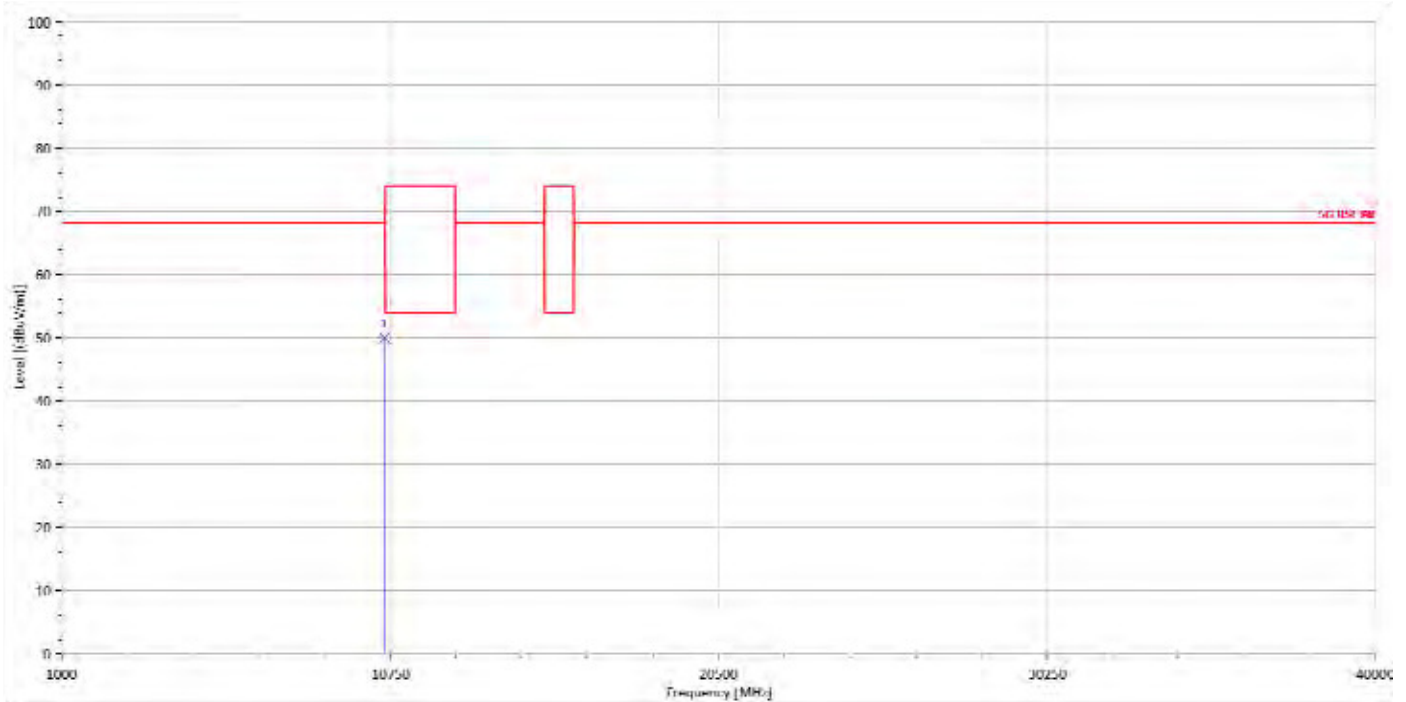
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80	Test Date :	2017/2/8
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	H	Peak	29.86	20.12	49.98	68.3	-18.32

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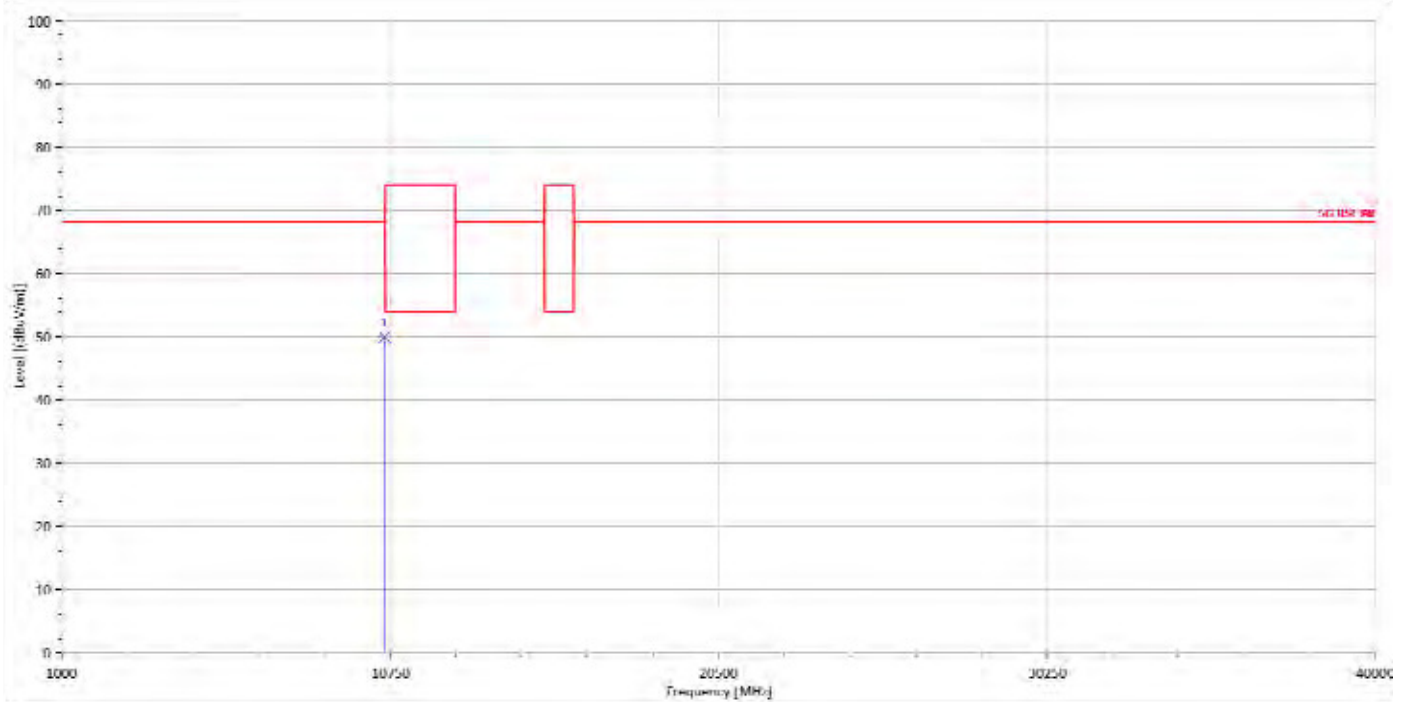
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Operation Mode :	802.11ac80	Test Date :	2017/2/8
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	H	Peak	29.83	20.12	49.95	68.3	-18.35

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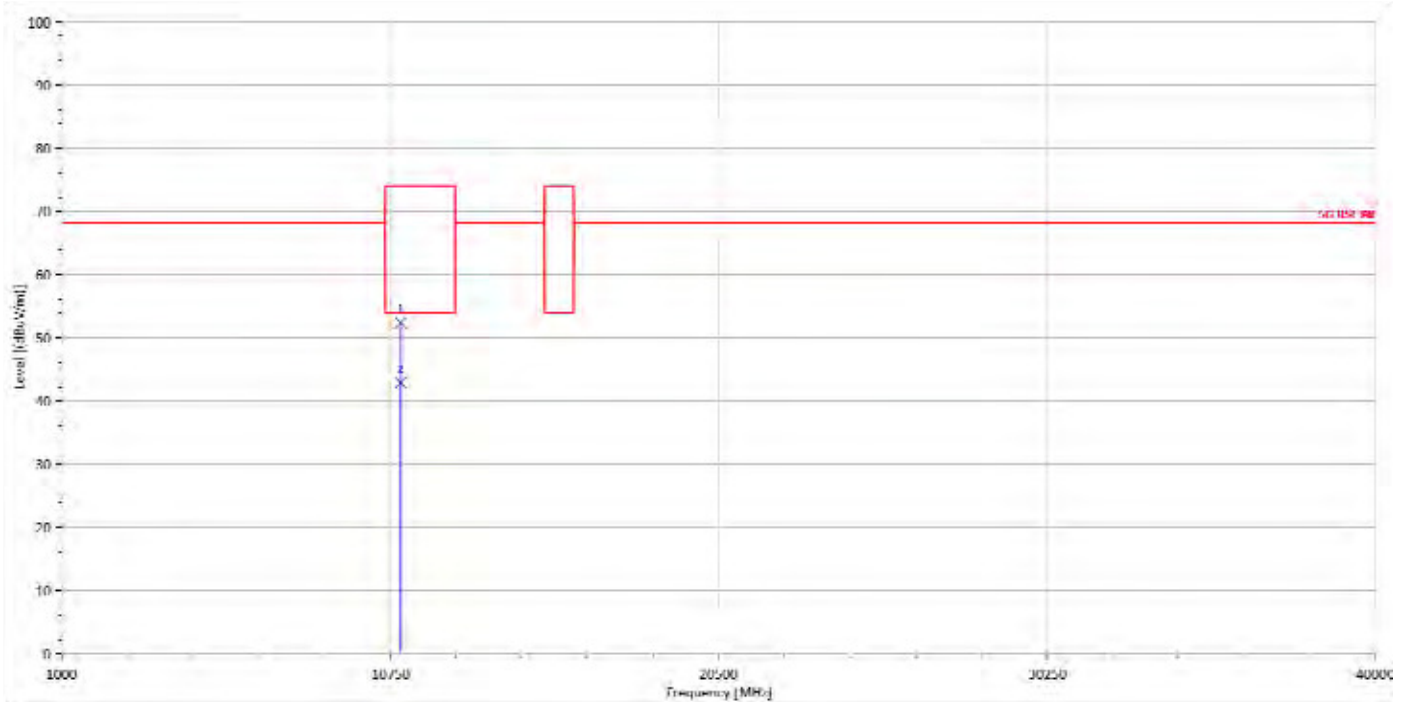
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80	Test Date :	2017/2/8
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	H	Peak	30.56	21.83	52.39	74	-21.61
11060.00	H	Average	20.97	21.83	42.80	54	-11.20

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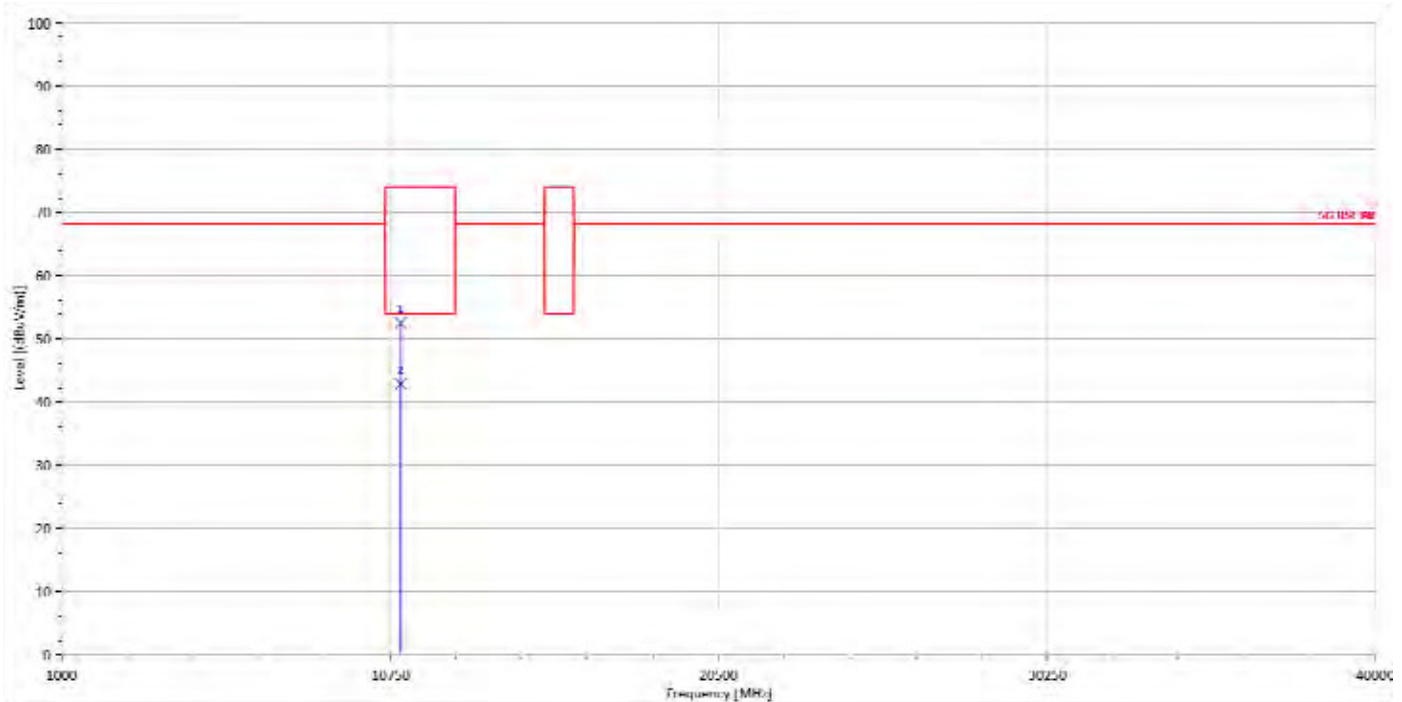
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Operation Mode : 802.11ac80 Test Date : 2017/2/8
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	H	Peak	30.67	21.83	52.50	74	-21.50
11060.00	H	Average	20.93	21.83	42.76	54	-11.24

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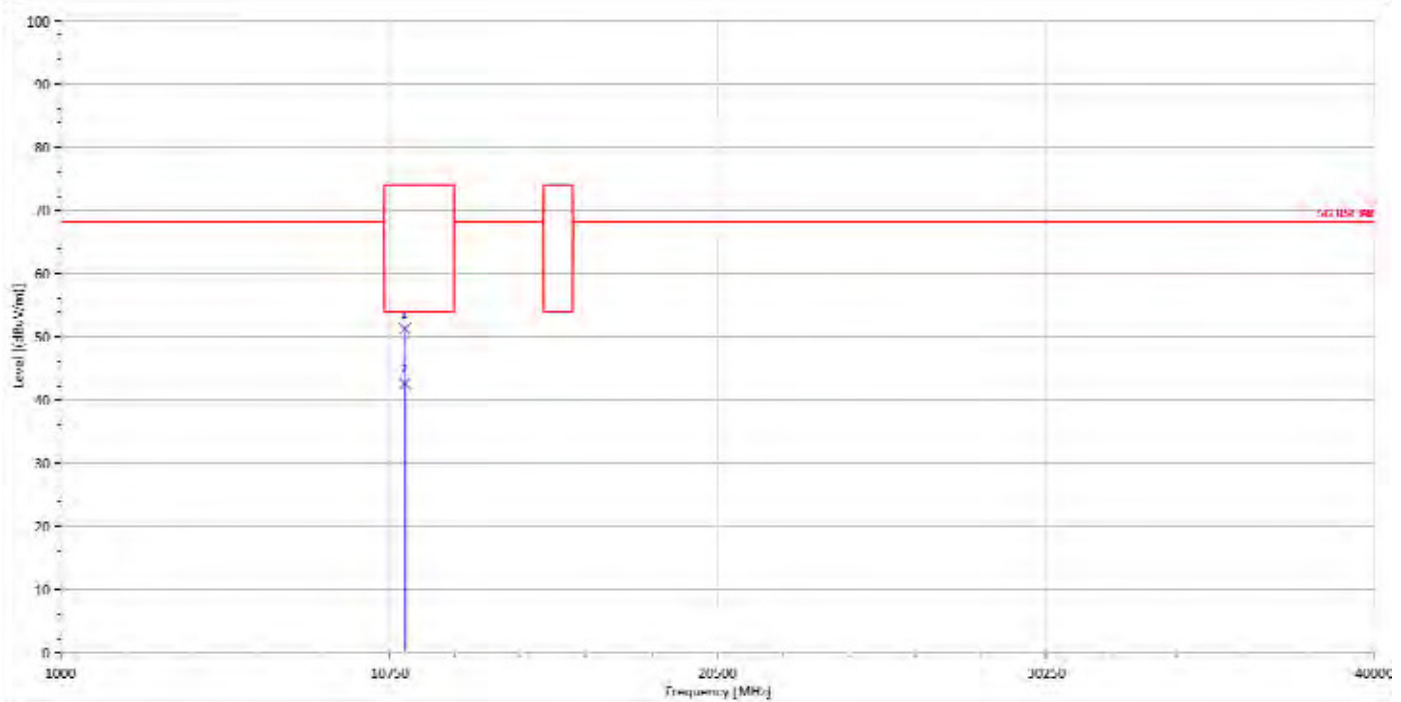
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Operation Mode :	802.11ac80	Test Date :	2017/2/8
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	H	Peak	30.01	21.32	51.33	74	-22.67
11220.00	H	Average	21.20	21.32	42.52	54	-11.48

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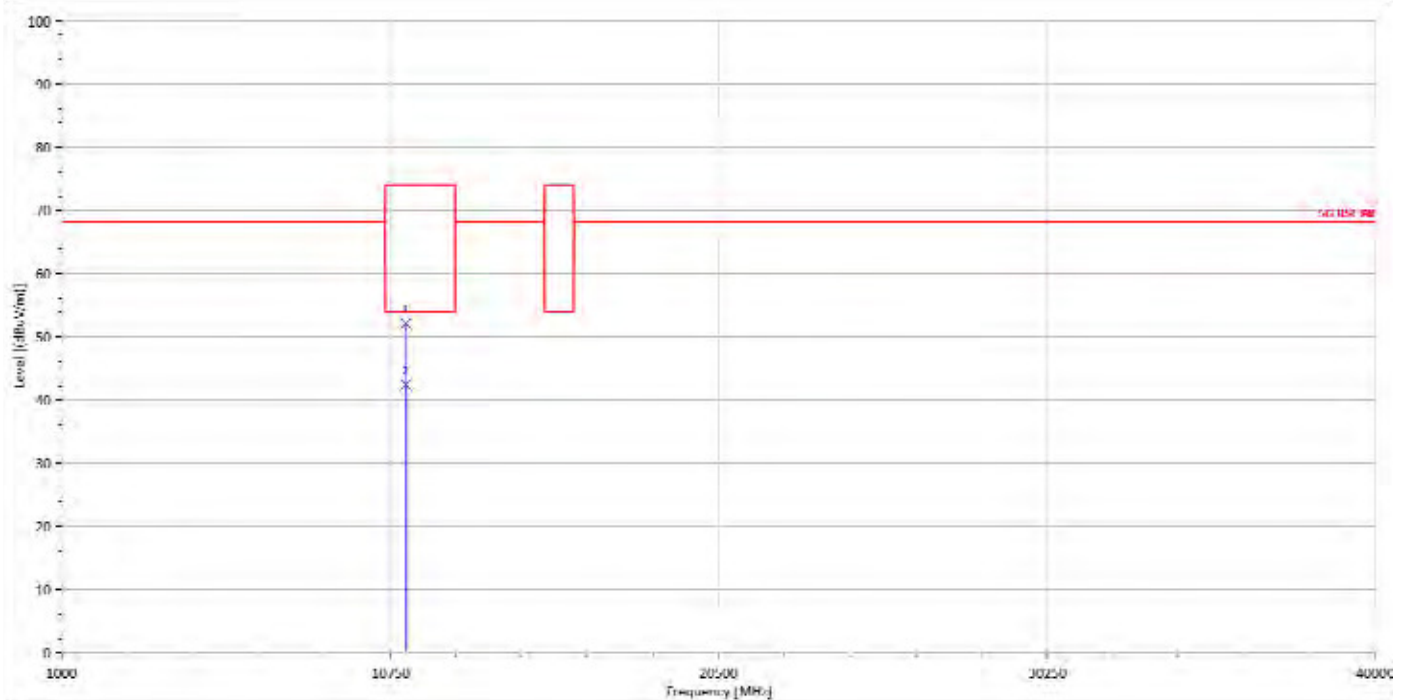
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Operation Mode :	802.11ac80	Test Date :	2017/2/8
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	S	Peak	30.80	21.32	52.12	74	-21.88
11220.00	S	Average	21.01	21.32	42.33	54	-11.67

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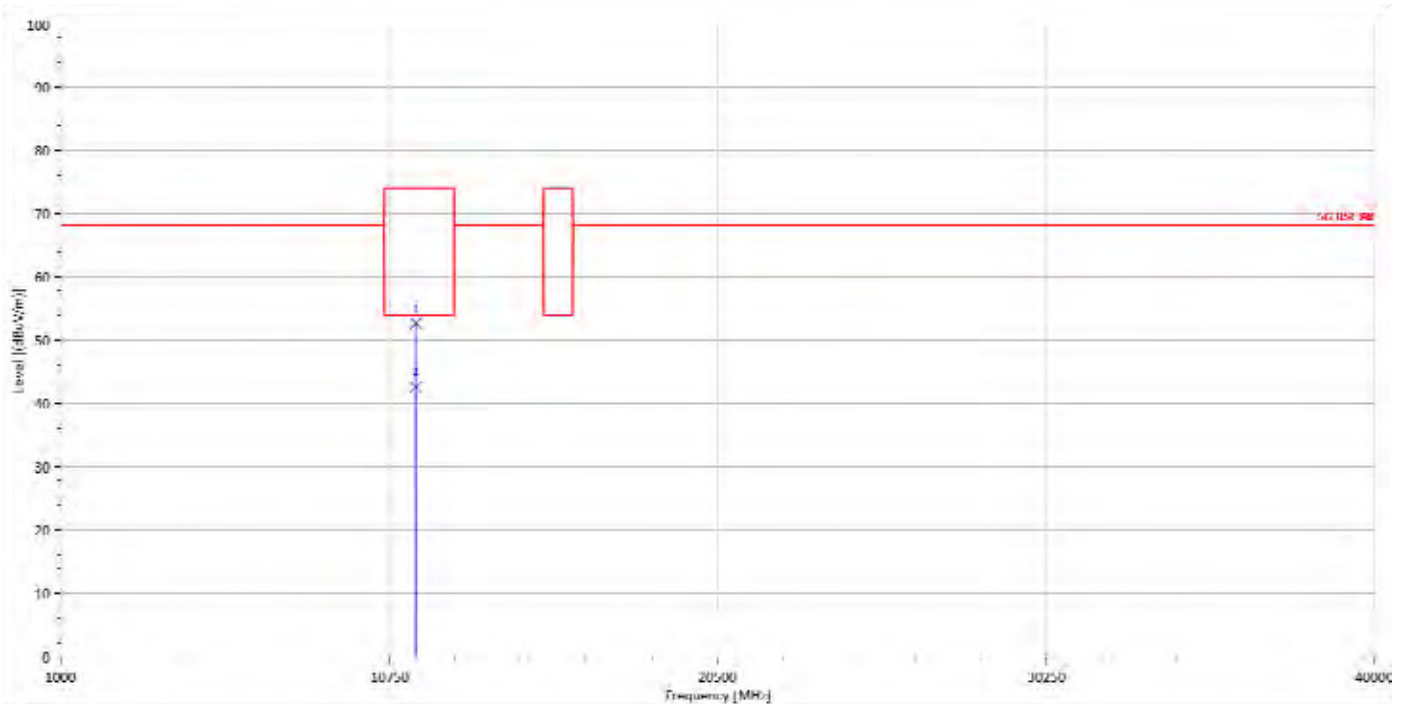
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode : 802.11ac80 Test Date : 2017/2/8
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	H	Peak	31.31	21.41	52.73	74	-21.27
11550.00	H	Average	21.28	21.41	42.69	54	-11.31

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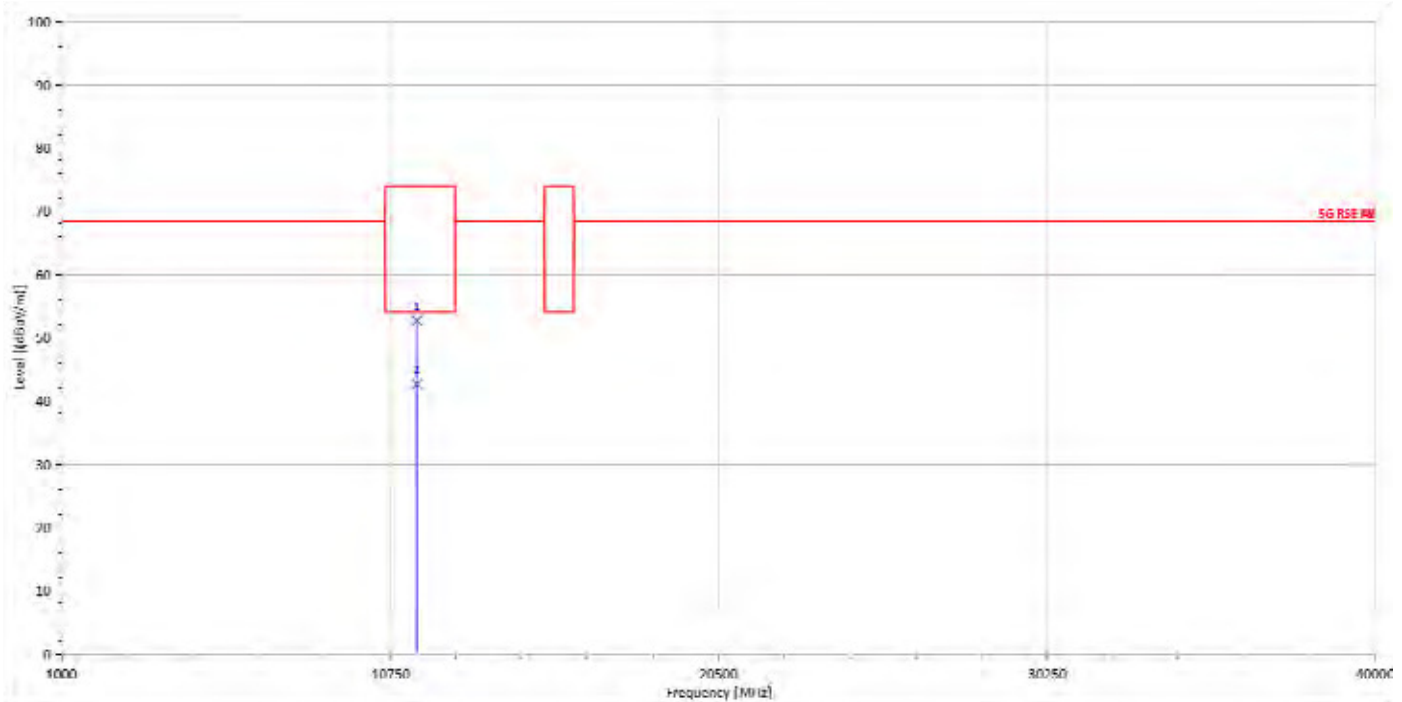
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Operation Mode :	802.11ac80	Test Date :	2017/2/8
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11550.00	H	Peak	31.23	21.41	52.65	74	-21.35
11550.00	H	Average	21.25	21.41	42.66	54	-11.34

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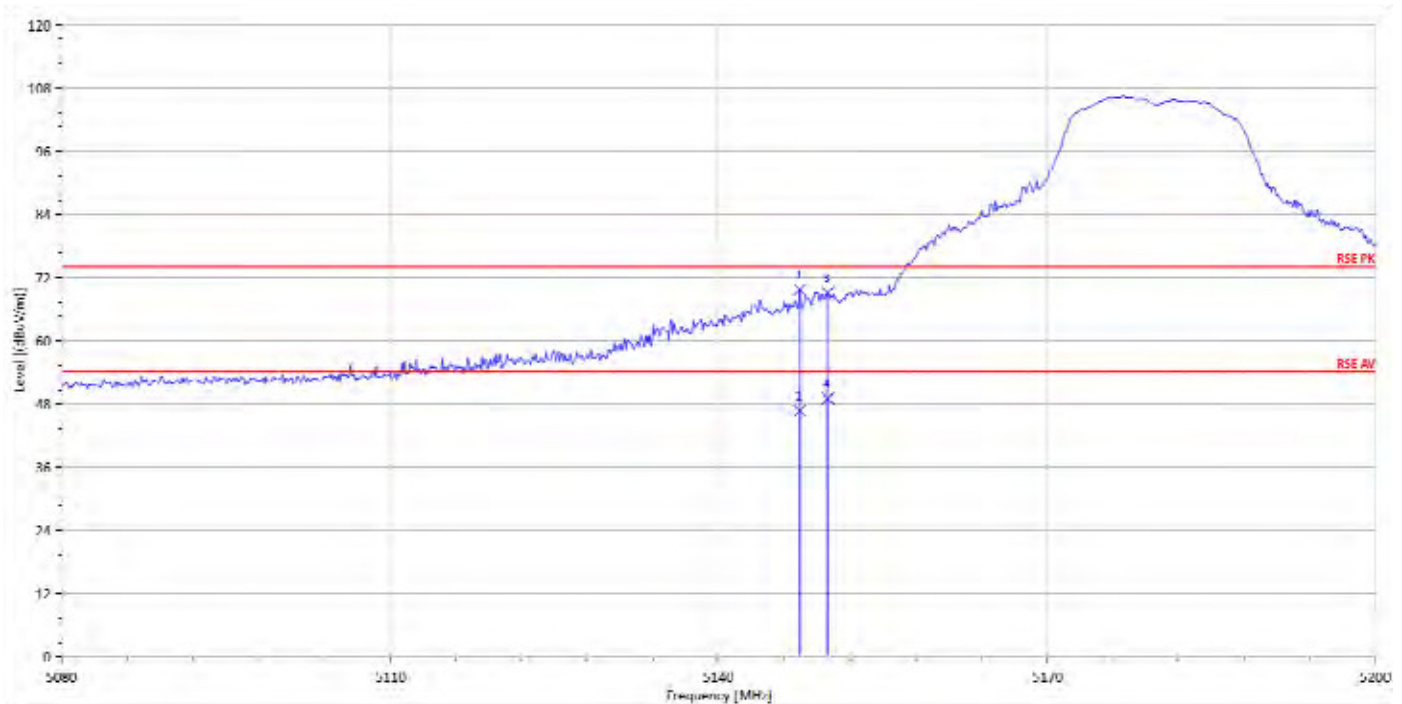
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Band edge falling to restricted band

802.11a mode

Operation Mode :	802.11a	Test Date :	2017/2/7
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5147.44	S	Peak	61.47	8.18	69.64	74	-4.36
5147.44	S	Average	38.57	8.18	46.75	54	-7.25
5150.00	E	Peak	60.85	8.19	69.04	74	-4.96
5150.00	E	Average	40.83	8.19	49.02	54	-4.98

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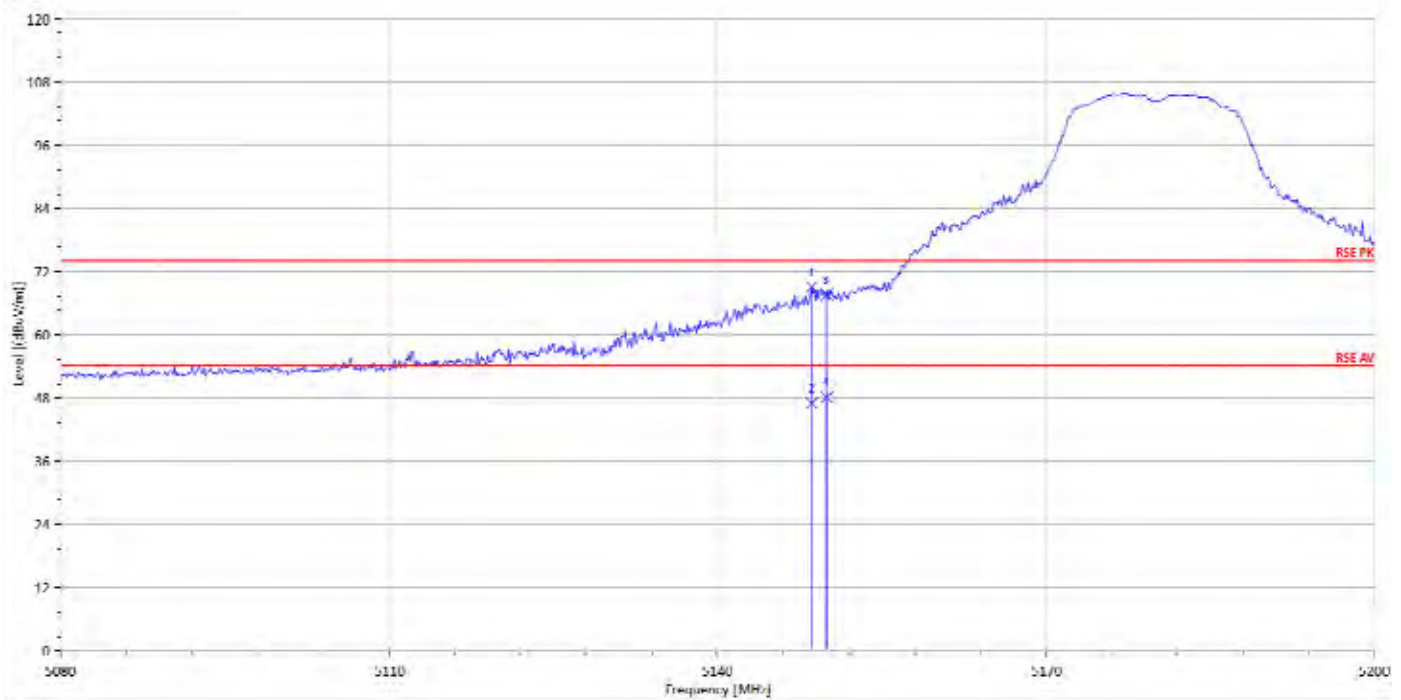
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Operation Mode : 802.11a Test Date : 2017/2/7
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5148.64	S	Peak	60.81	8.18	68.99	74	-5.01
5148.64	S	Average	38.88	8.18	47.06	54	-6.94
5150.00	E	Peak	59.40	8.19	67.59	74	-6.41
5150.00	E	Average	39.96	8.19	48.15	54	-5.85

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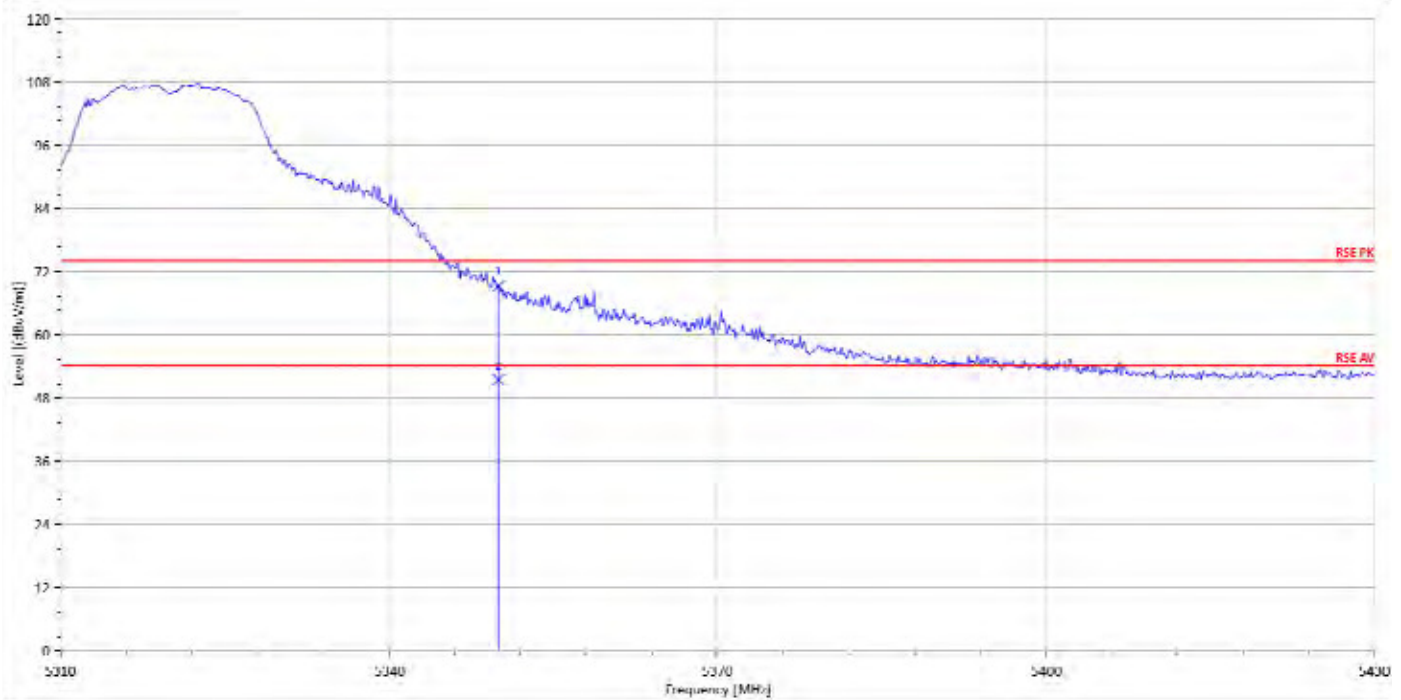
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Operation Mode : 802.11a Test Date : 2017/2/7
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	60.24	8.96	69.20	74	-4.80
5350.00	E	Average	42.36	8.96	51.32	54	-2.68

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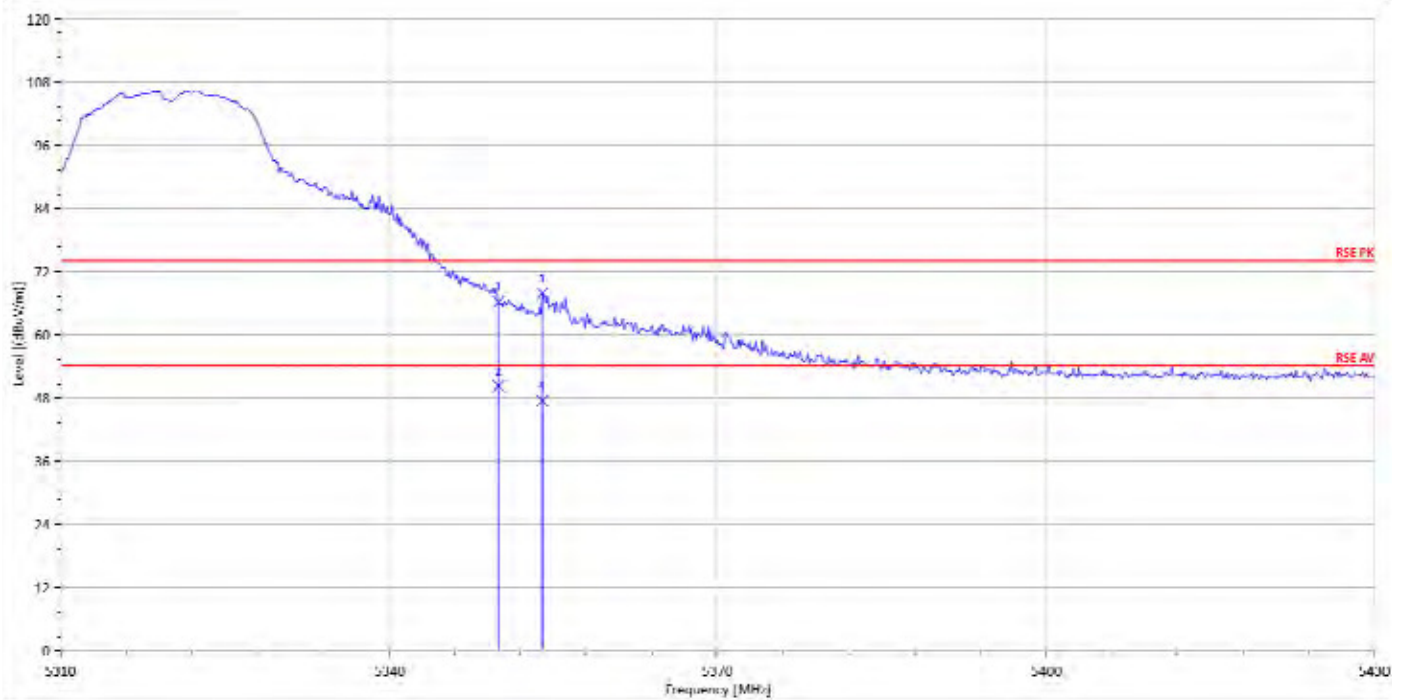
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Operation Mode : 802.11a Test Date : 2017/2/7
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Peak	57.33	8.96	66.29	74	-7.71
5350.00	E	Average	41.29	8.96	50.25	54	-3.75
5354.04	S	Peak	58.82	8.98	67.80	74	-6.20
5354.04	S	Average	38.52	8.98	47.50	54	-6.50

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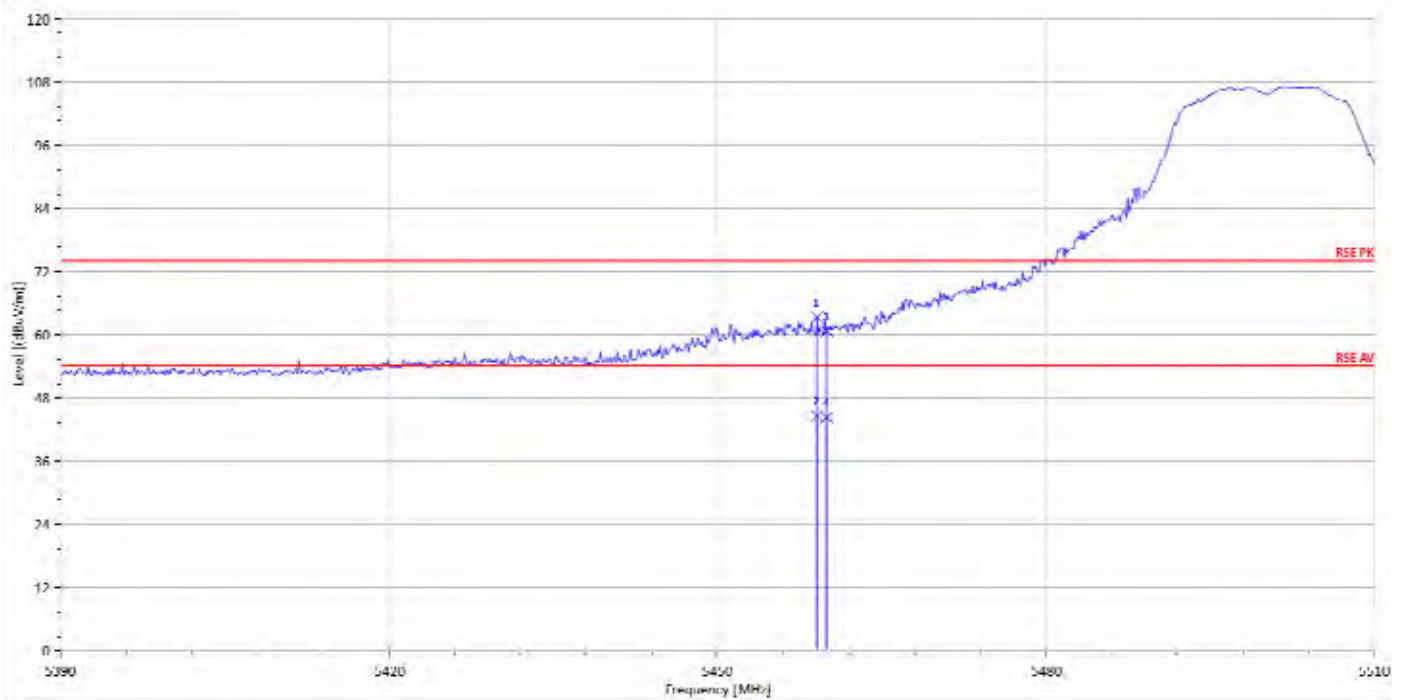
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Operation Mode :	802.11a	Test Date :	2017/2/7
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5459.12	S	Peak	54.46	8.89	63.35	74	-10.65
5459.12	S	Average	35.72	8.89	44.61	54	-9.39
5460.00	E	Peak	51.85	8.88	60.73	74	-13.27
5460.00	E	Average	35.43	8.88	44.31	54	-9.69

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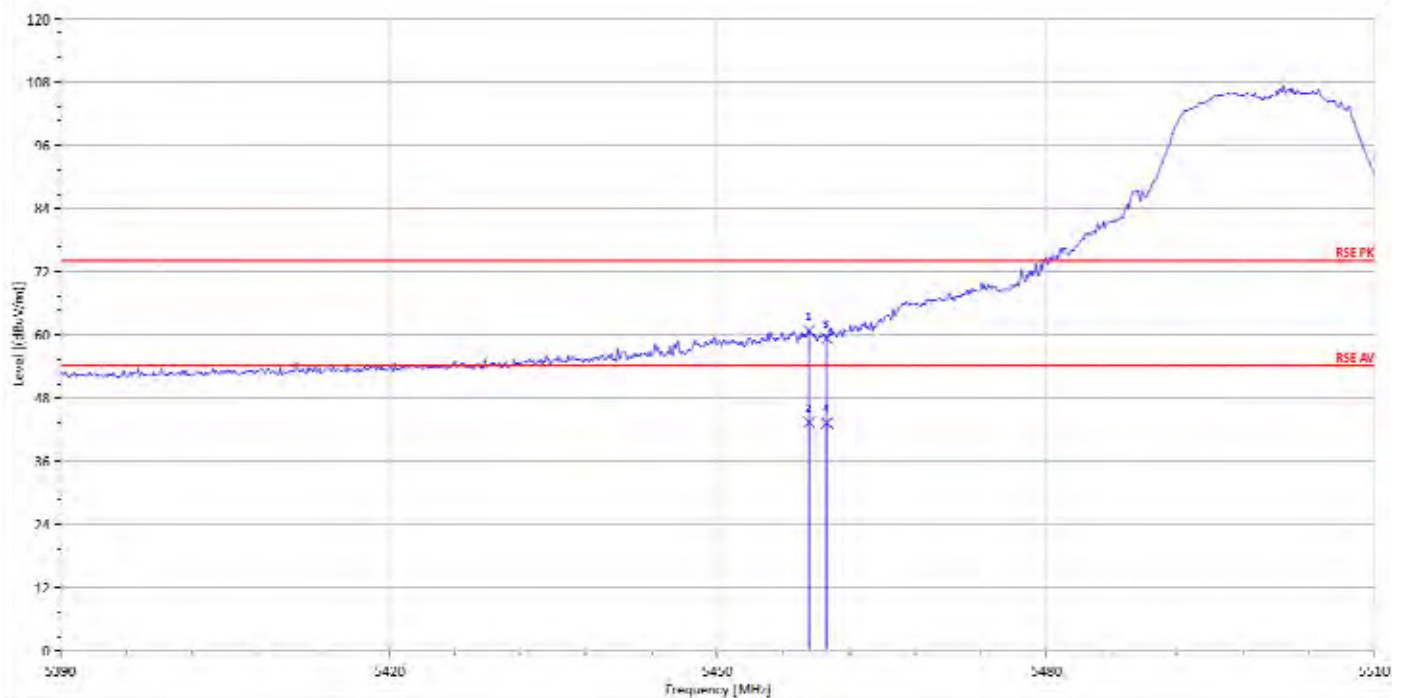
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Operation Mode :	802.11a	Test Date :	2017/2/7
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5458.40	S	Peak	51.88	8.90	60.78	74	-13.22
5458.40	S	Average	34.47	8.90	43.37	54	-10.63
5460.00	E	Peak	50.42	8.88	59.31	74	-14.69
5460.00	E	Average	34.37	8.88	43.25	54	-10.75

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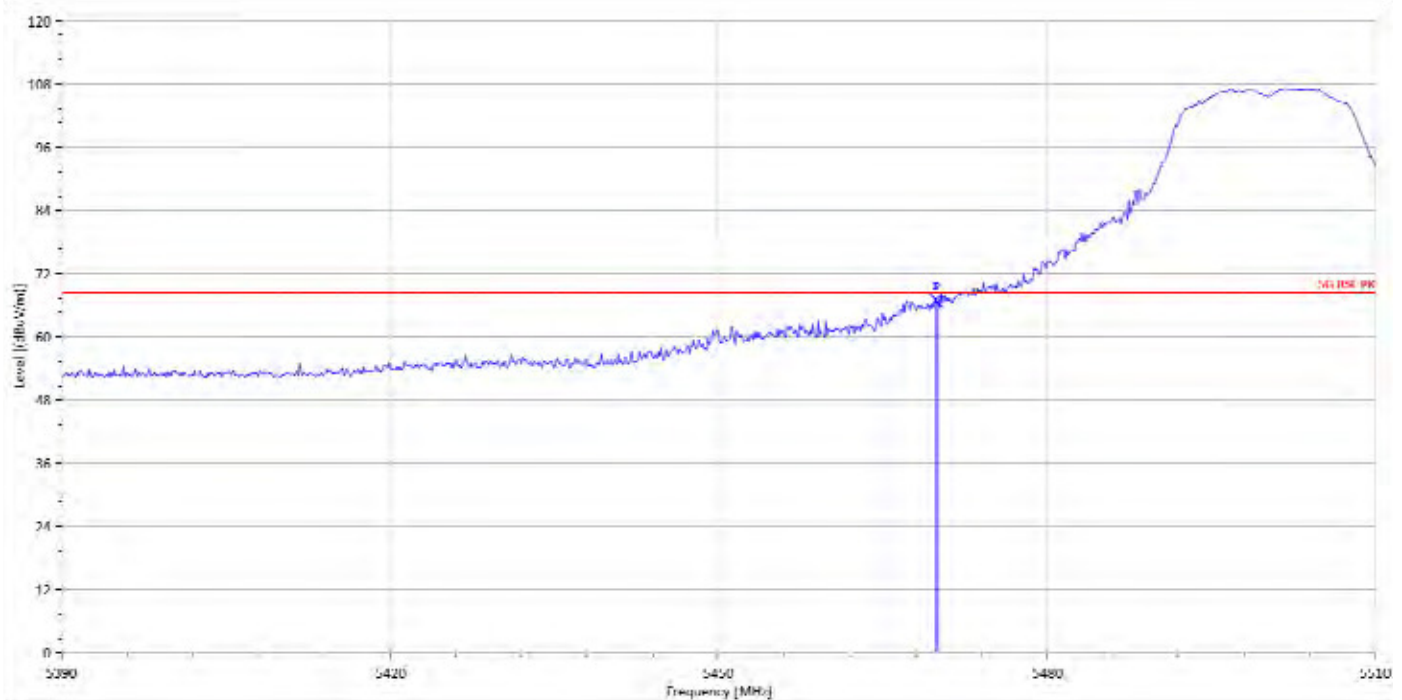
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Operation Mode :	802.11a	Test Date :	2017/2/7
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5469.80	S	Peak	58.18	8.79	66.97	68.3	-1.33
5470.00	E	Peak	57.91	8.79	66.70	68.3	-1.60

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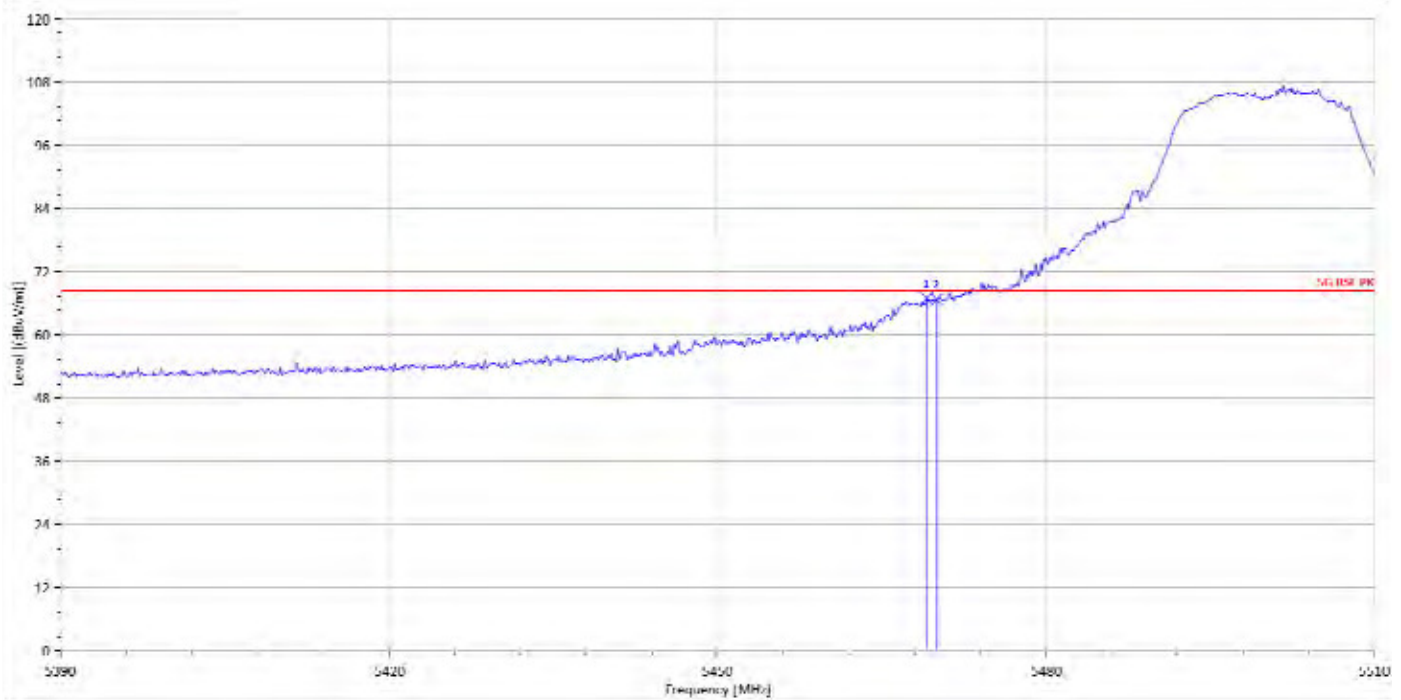
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Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5469.08	S	Peak	58.12	8.80	66.92	68.3	-1.38
5470.00	E	Peak	57.94	8.79	66.73	68.3	-1.57

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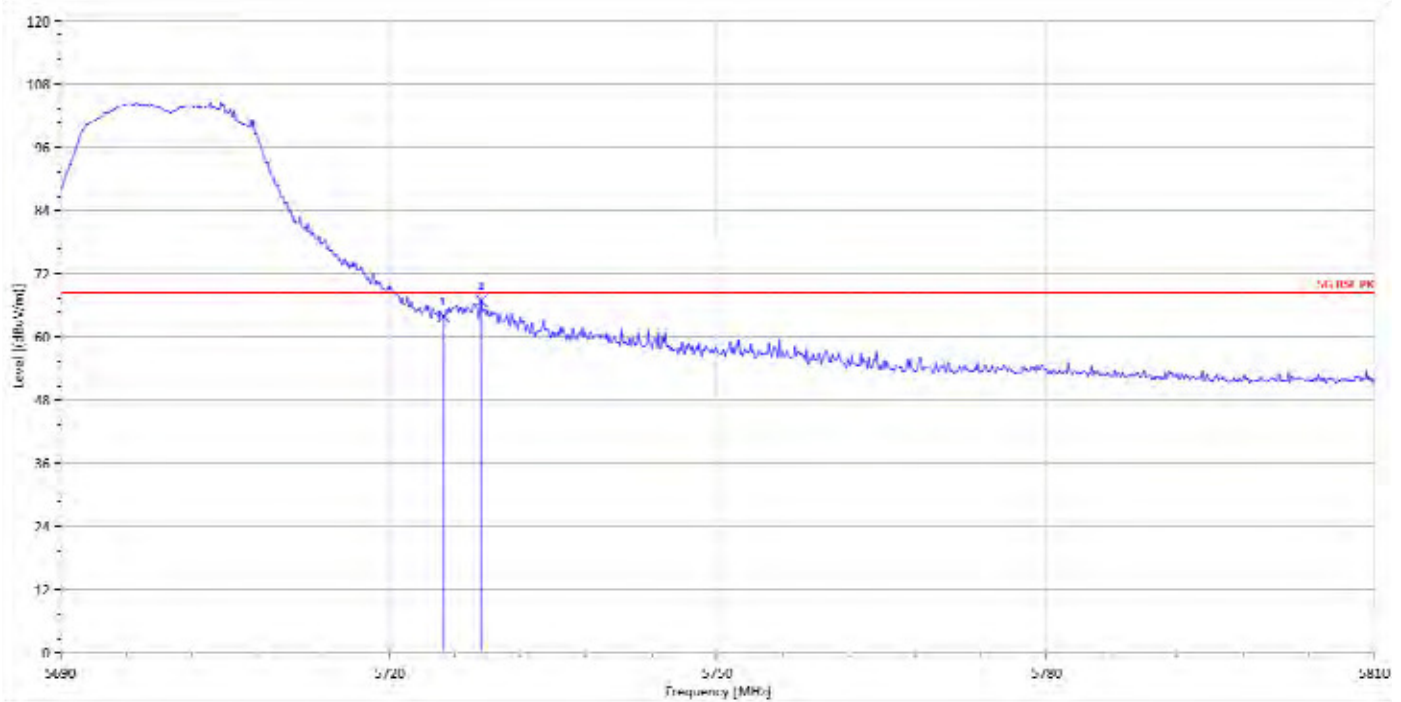
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Operation Mode :	802.11a	Test Date :	2017/2/7
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	54.59	9.30	63.89	68.3	-4.41
5728.40	S	Peak	57.51	9.30	66.81	68.3	-1.49

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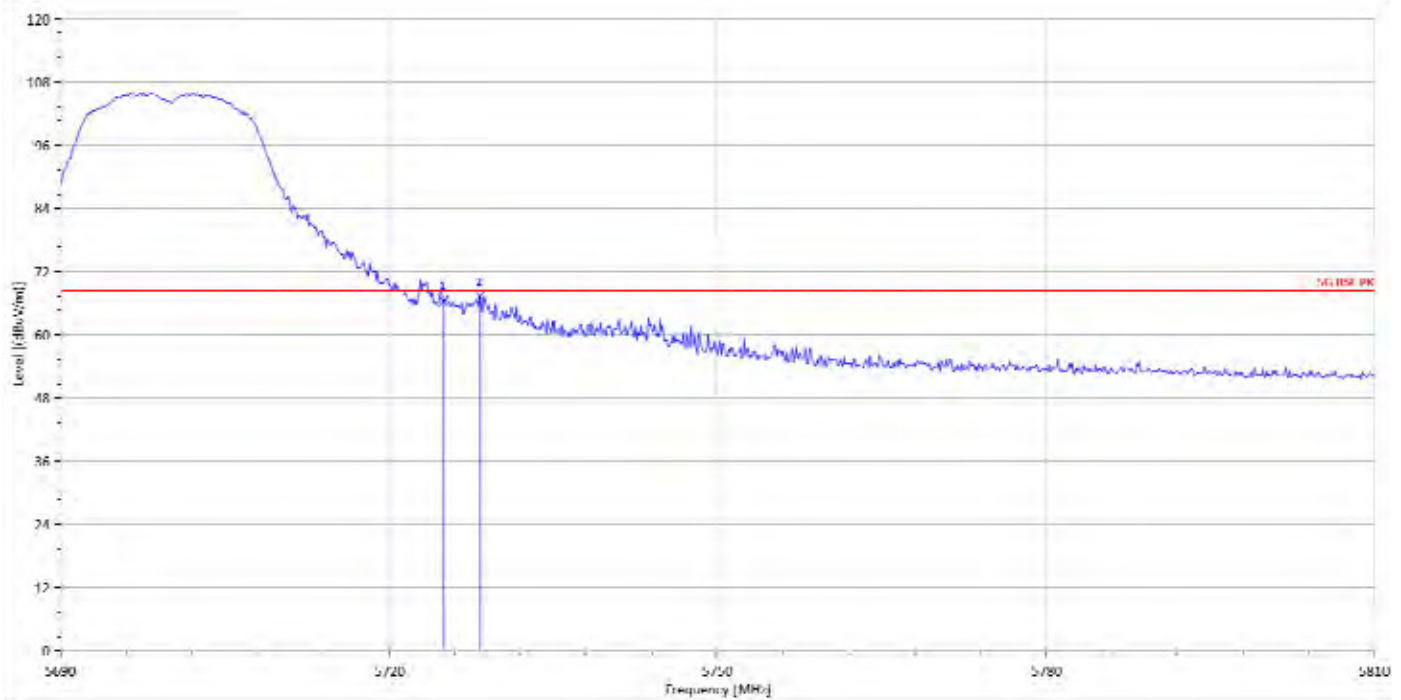
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 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	S	Peak	57.13	9.30	66.43	68.3	-1.87
5728.28	S	Peak	57.99	9.30	67.28	68.3	-1.02

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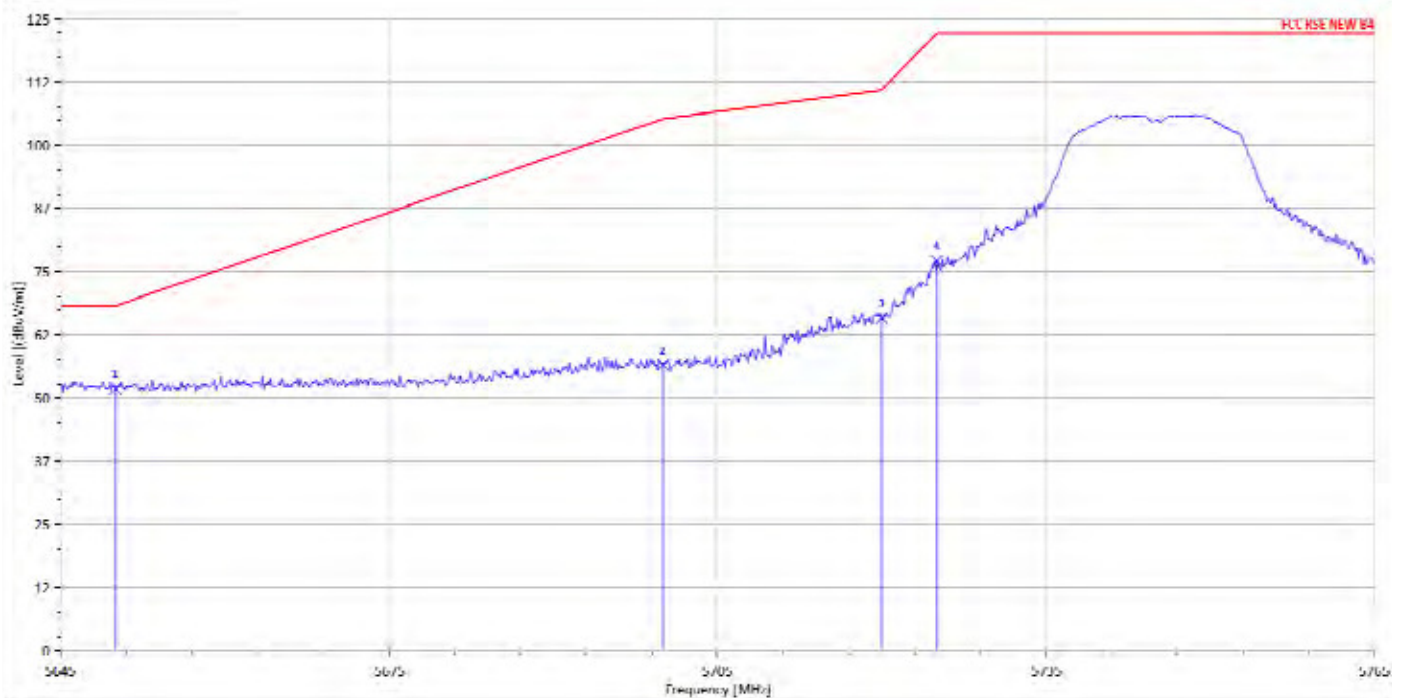
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode : 802.11a Test Date : 2017/2/8
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	S	Peak	42.54	9.33	51.87	68.23	-16.36
5700.00	S	Peak	47.06	9.44	56.50	105.23	-48.73
5720.00	S	Peak	56.60	9.28	65.88	110.83	-44.95
5725.00	E	Peak	67.77	9.30	77.07	122.23	-45.16

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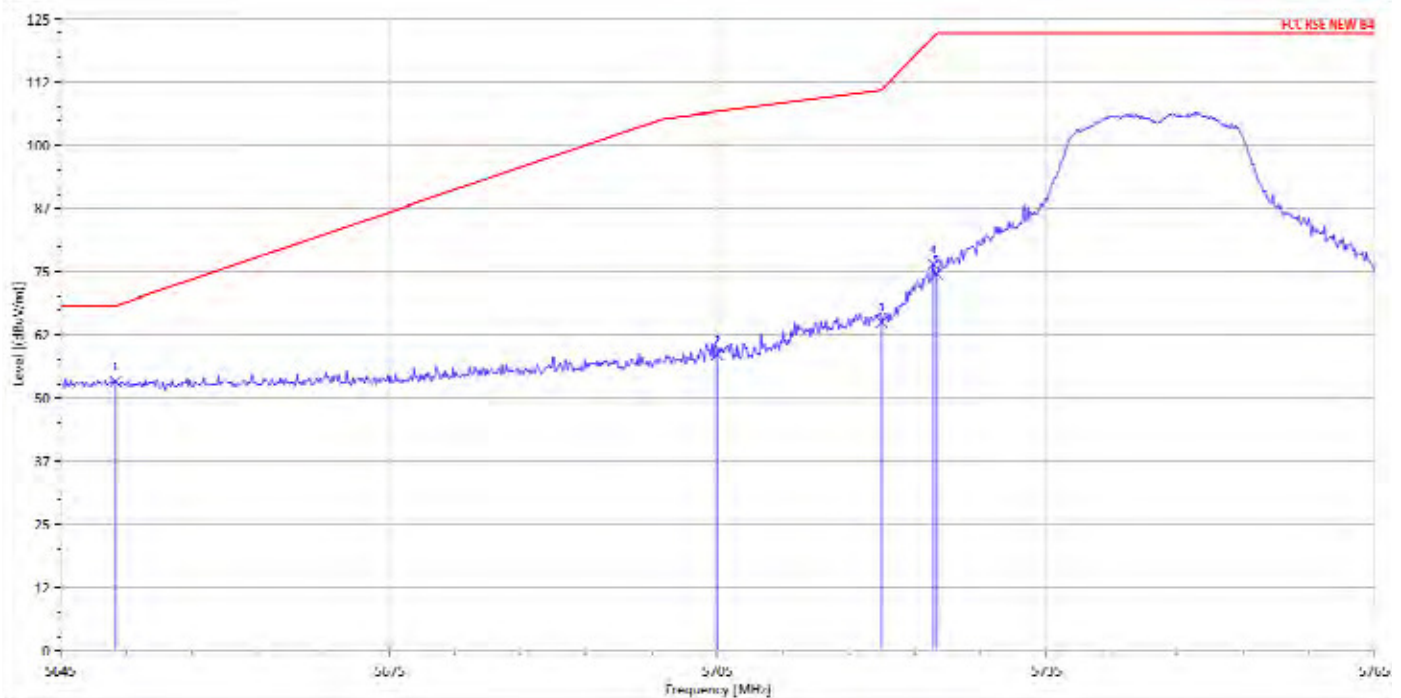
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Operation Mode : 802.11a Test Date : 2017/2/8
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	43.83	9.33	53.16	68.23	-15.07
5705.00	S	Peak	49.23	9.33	58.55	106.63	-48.08
5720.00	S	Peak	55.77	9.28	65.06	110.83	-45.77
5724.68	S	Peak	67.15	9.30	76.44	121.5008	-45.06
5725.00	E	Peak	65.19	9.30	74.49	122.23	-47.74

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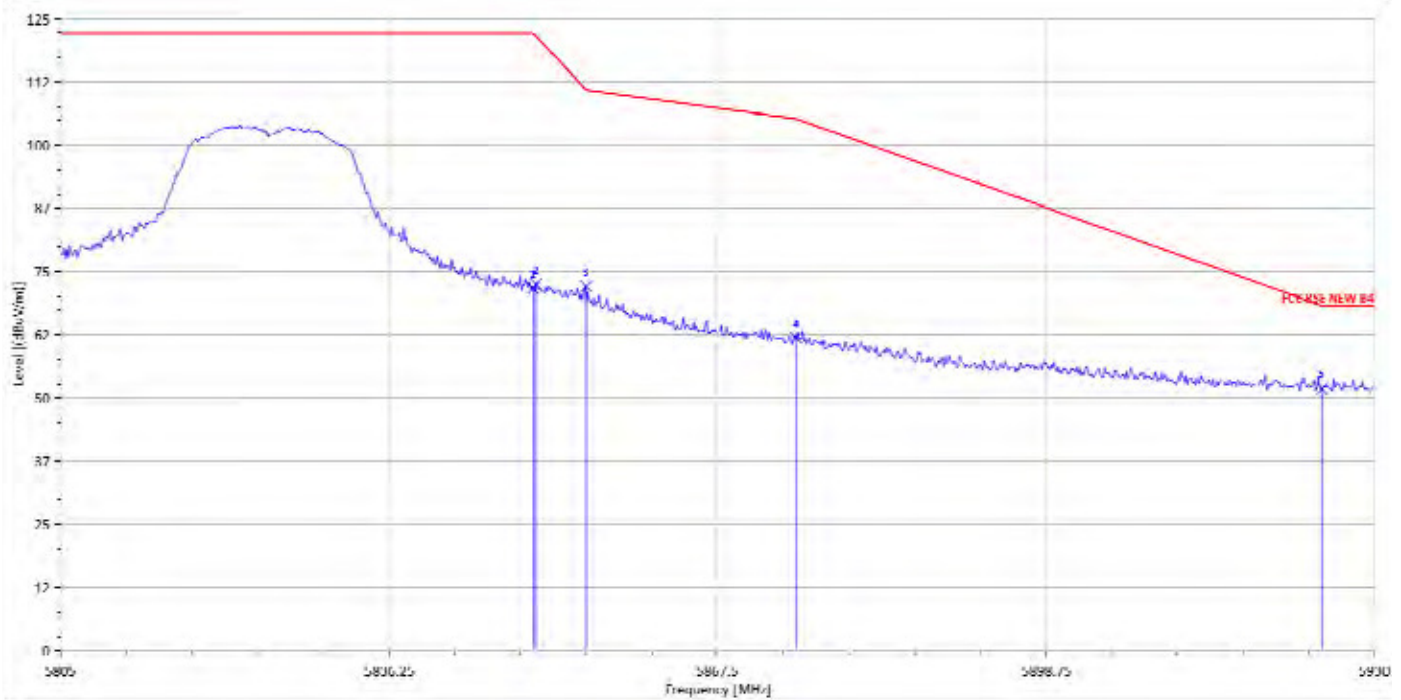
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Operation Mode : 802.11a Test Date : 2017/2/8
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	62.13	9.49	71.62	122.23	-50.61
5850.25	S	Peak	62.96	9.49	72.45	121.66	-49.21
5855.00	S	Peak	62.40	9.58	71.97	110.83	-38.86
5875.00	S	Peak	52.28	9.63	61.92	105.23	-43.31
5925.00	S	Peak	41.77	10.01	51.78	68.23	-16.45

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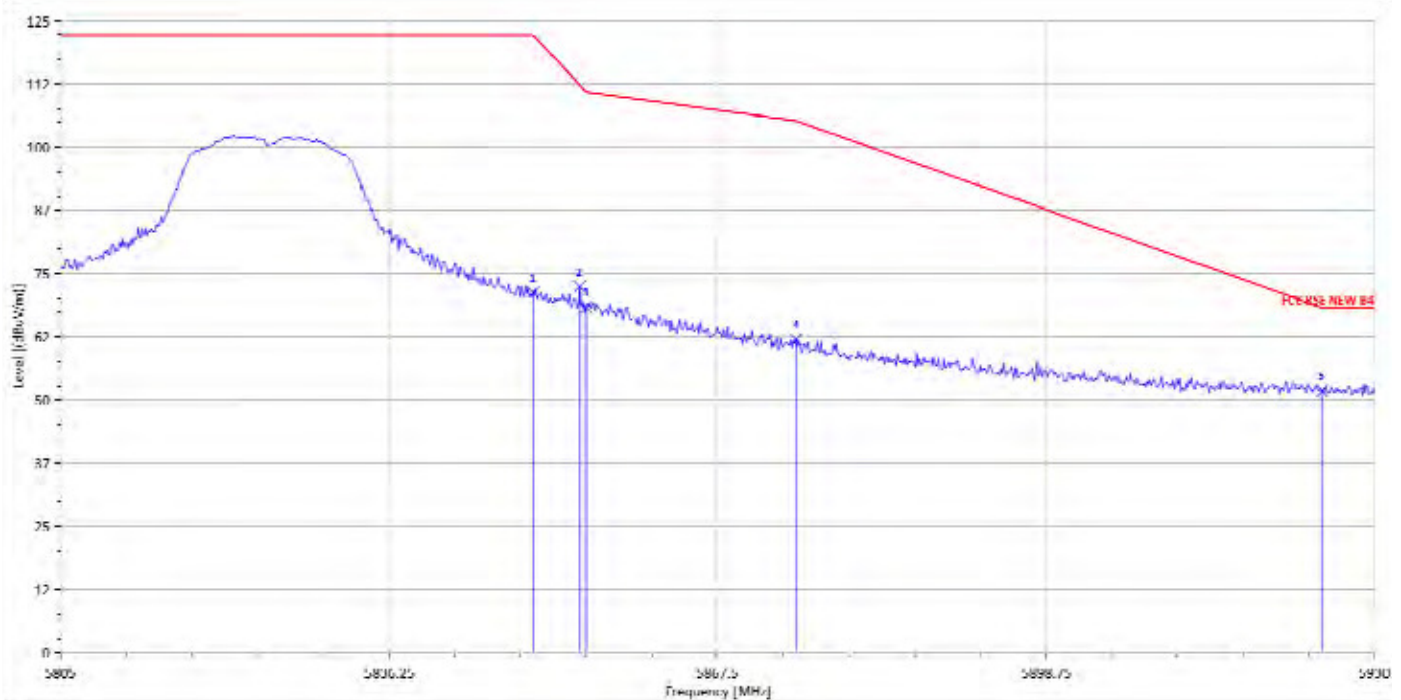
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Operation Mode : 802.11a Test Date : 2017/2/8
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	61.74	9.49	71.23	122.23	-51.00
5854.38	S	Peak	62.79	9.57	72.36	112.255	-39.90
5855.00	S	Peak	58.75	9.58	68.34	110.83	-42.49
5875.00	S	Peak	52.32	9.63	61.96	105.23	-43.27
5925.00	S	Peak	41.78	10.01	51.80	68.23	-16.43

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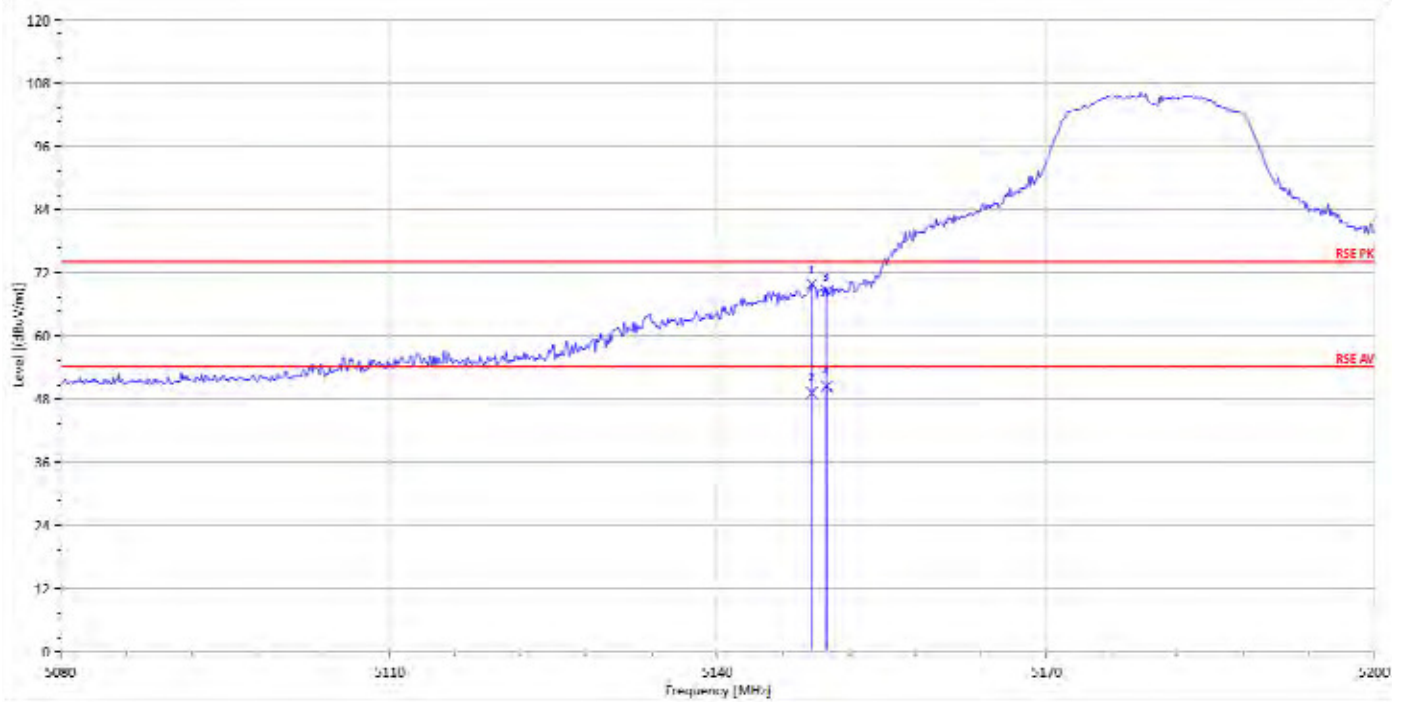
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802.11n HT20 mode

Operation Mode :	802.11n20	Test Date :	2017/2/7
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5148.64	S	Peak	61.55	8.18	69.74	74	-4.26
5148.64	S	Average	40.99	8.18	49.17	54	-4.83
5150.00	E	Peak	60.26	8.19	68.45	74	-5.55
5150.00	E	Average	42.15	8.19	50.34	54	-3.66

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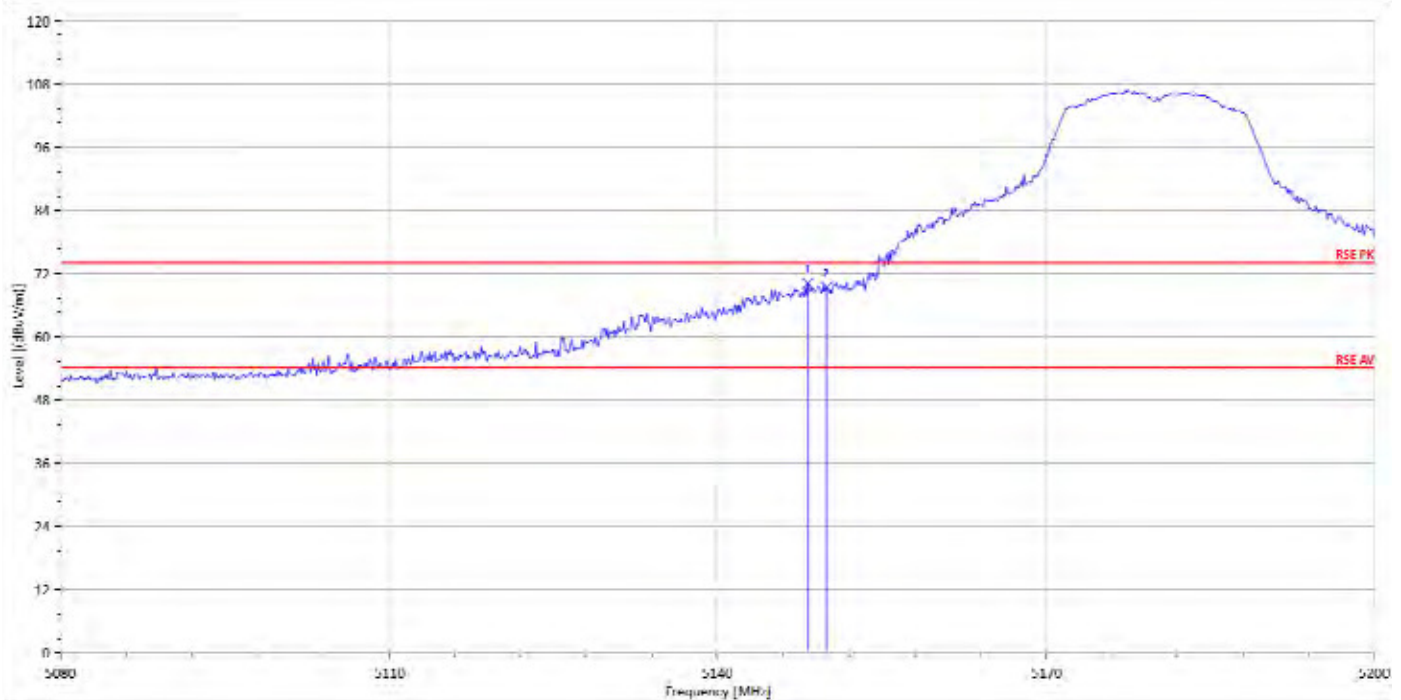
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Operation Mode :	802.11n20	Test Date :	2017/2/7
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5148.28	S	Peak	61.85	8.18	70.04	74	-3.96
5150.00	E	Peak	61.15	8.19	69.34	74	-4.66

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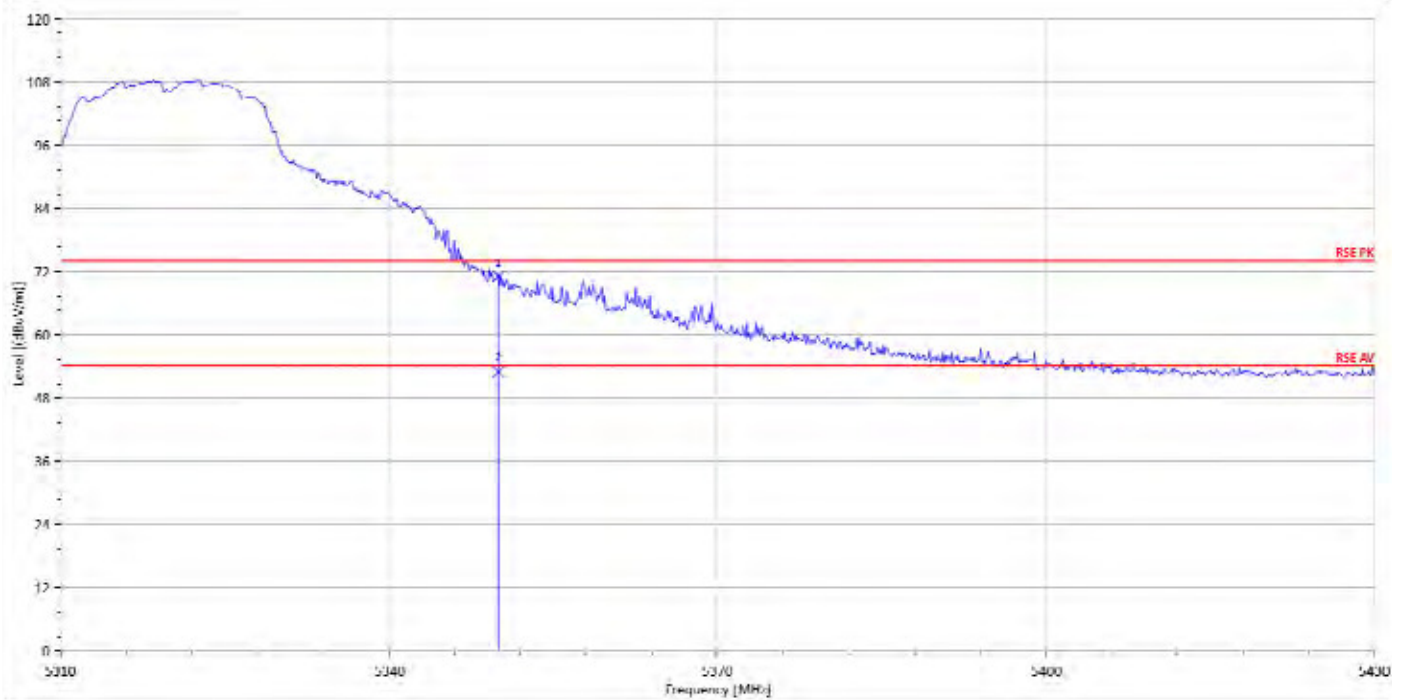
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Operation Mode : 802.11n20 Test Date : 2017/2/7
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	62.03	8.96	71.00	74	-3.00
5350.00	E	Average	43.88	8.96	52.84	54	-1.16

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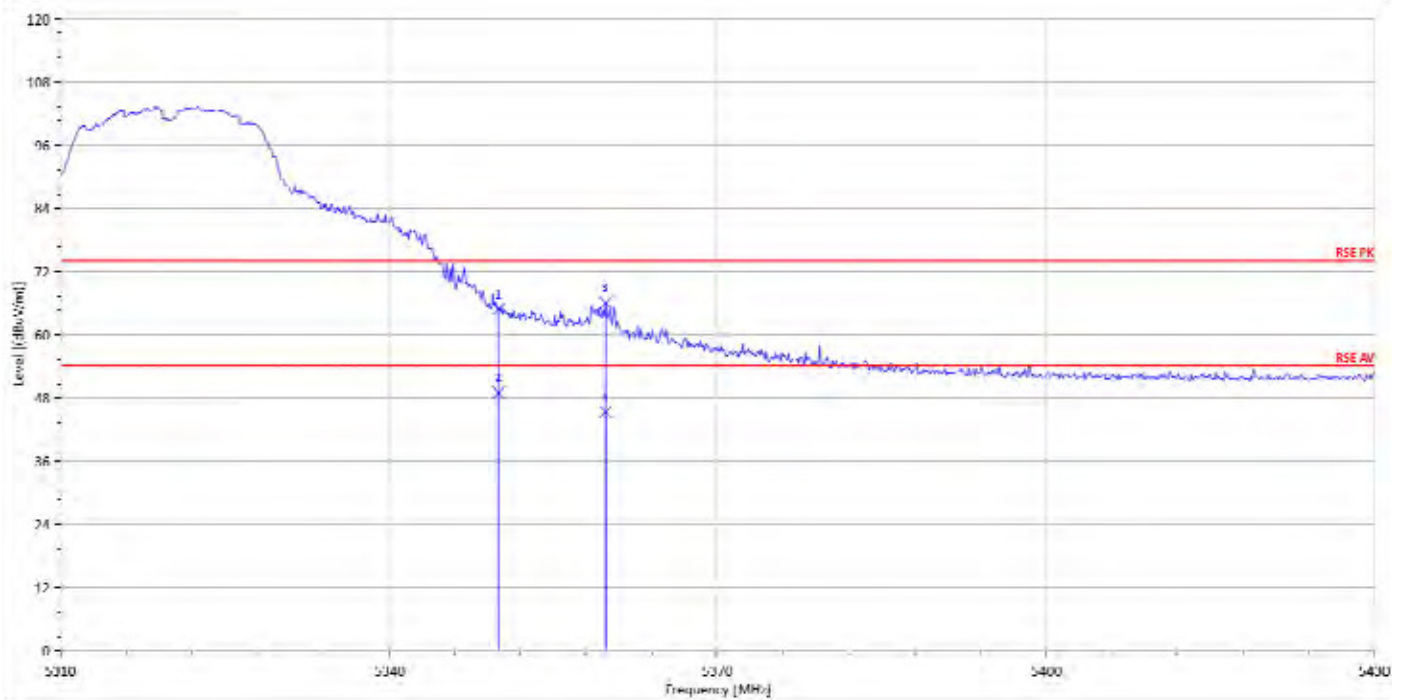
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Operation Mode : 802.11n20 Test Date : 2017/2/7
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	55.95	8.96	64.92	74	-9.08
5350.00	E	Average	40.05	8.96	49.01	54	-4.99
5359.80	S	Peak	57.18	8.92	66.10	74	-7.90
5359.80	S	Average	36.48	8.92	45.40	54	-8.60

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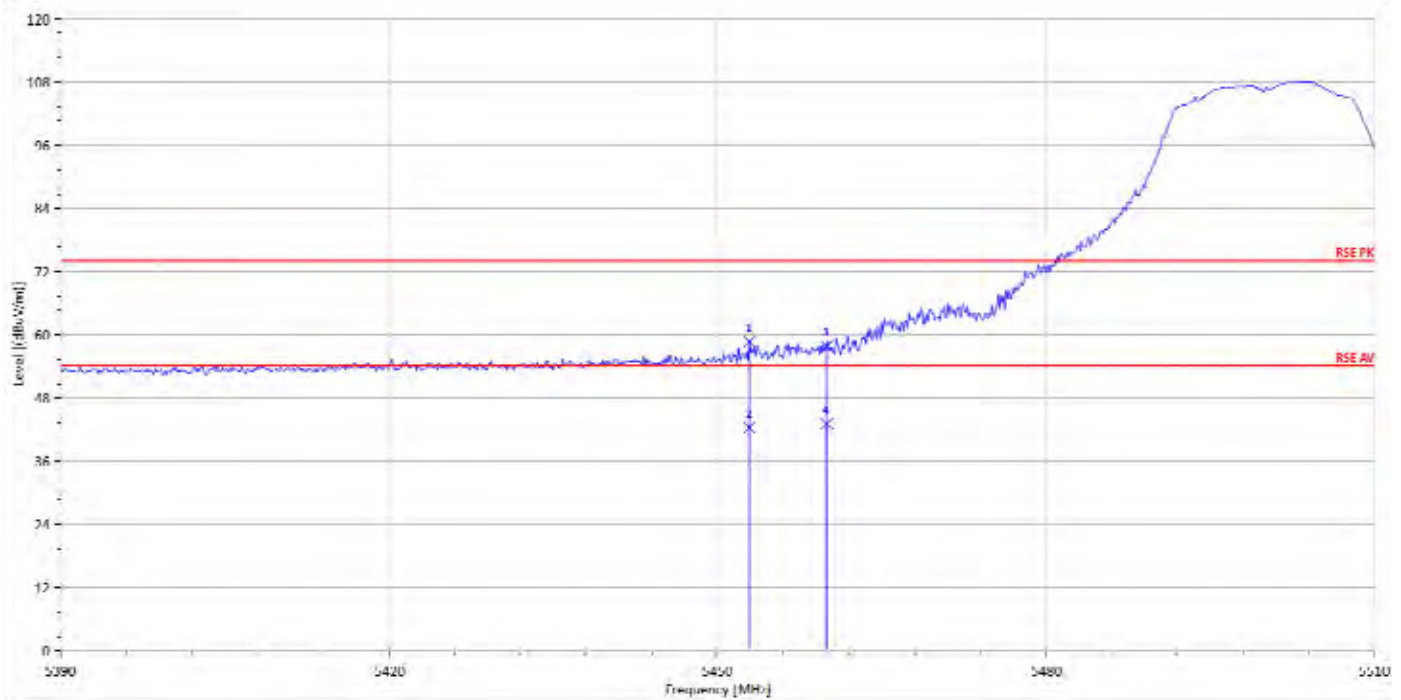
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Operation Mode :	802.11n20	Test Date :	2017/2/7
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5452.88	S	Peak	49.73	8.96	58.69	74	-15.31
5452.88	S	Average	33.40	8.96	42.36	54	-11.64
5460.00	E	Peak	48.90	8.88	57.78	74	-16.22
5460.00	E	Average	34.19	8.88	43.07	54	-10.93

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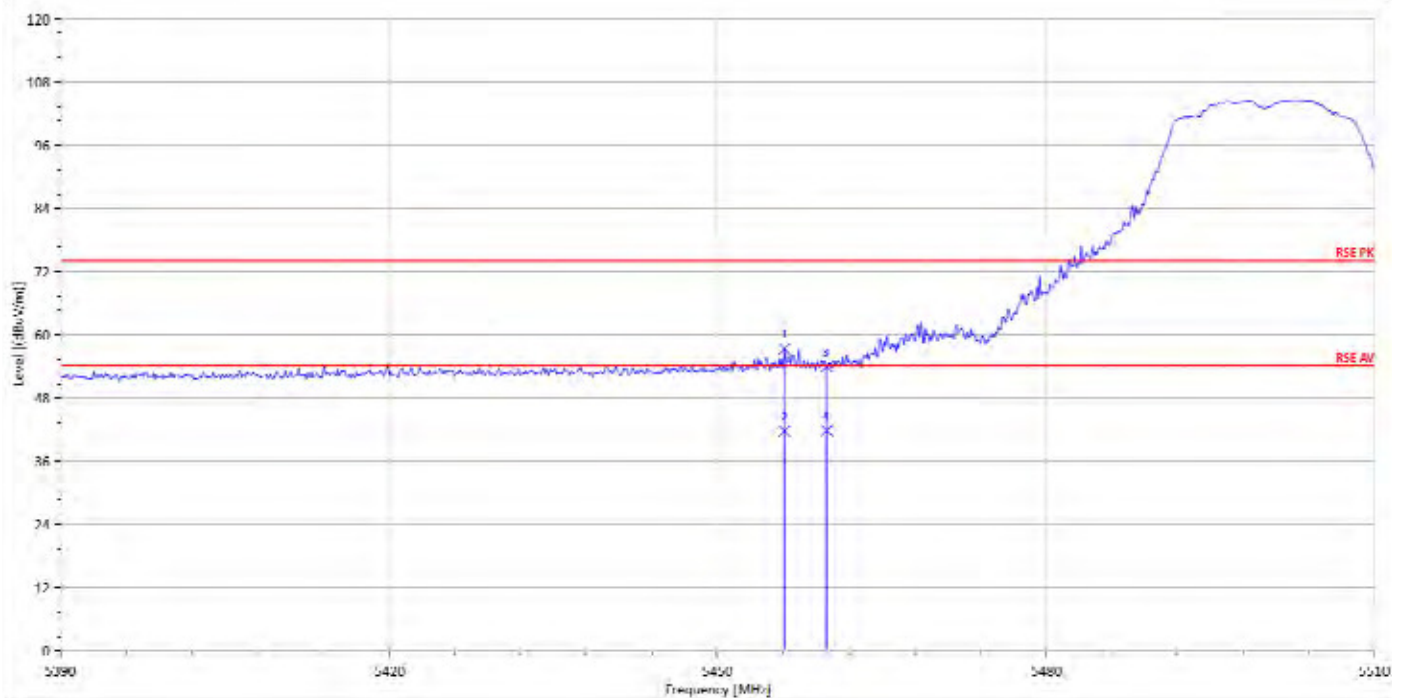
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Operation Mode : 802.11n20 Test Date : 2017/2/7
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5456.12	S	Peak	48.39	8.92	57.31	74	-16.69
5456.12	S	Average	32.77	8.92	41.69	54	-12.31
5460.00	E	Peak	44.99	8.88	53.87	74	-20.13
5460.00	E	Average	32.92	8.88	41.80	54	-12.20

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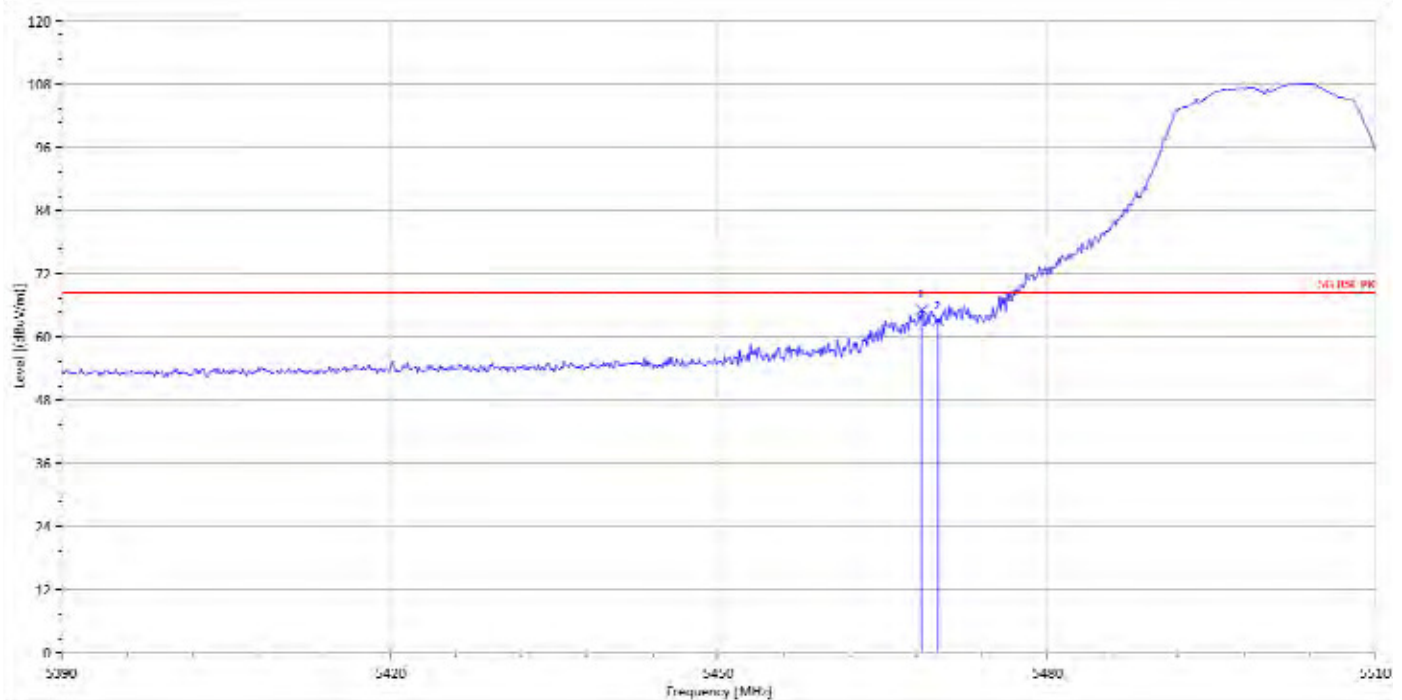
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Operation Mode :	802.11n20	Test Date :	2017/2/7
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5468.60	S	Peak	56.35	8.80	65.15	68.3	-3.15
5470.00	E	Peak	54.36	8.79	63.15	68.3	-5.15

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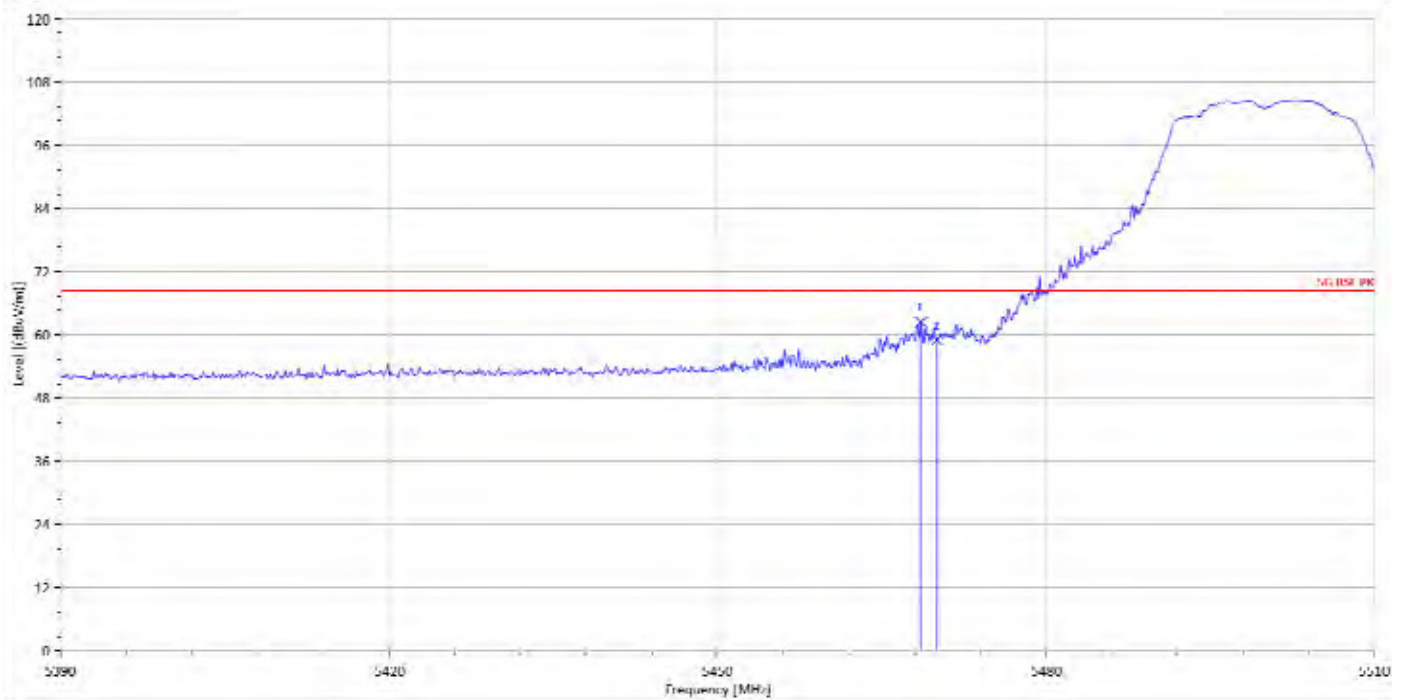
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Operation Mode :	802.11n20	Test Date :	2017/2/7
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5468.60	S	Peak	53.62	8.80	62.42	68.3	-5.88
5470.00	E	Peak	50.23	8.79	59.02	68.3	-9.28

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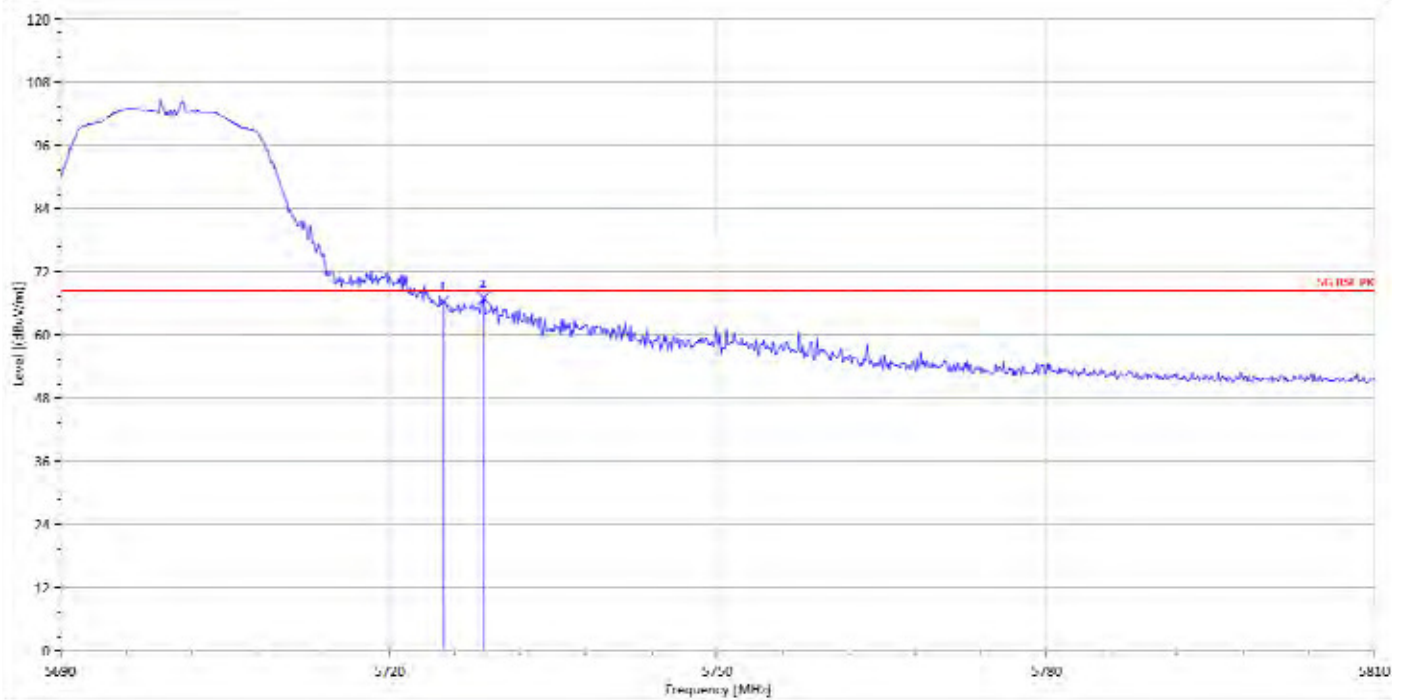
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Operation Mode : 802.11n20 Test Date : 2017/2/7
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	57.06	9.30	66.36	68.3	-1.94
5728.64	S	Peak	57.62	9.30	66.92	68.3	-1.38

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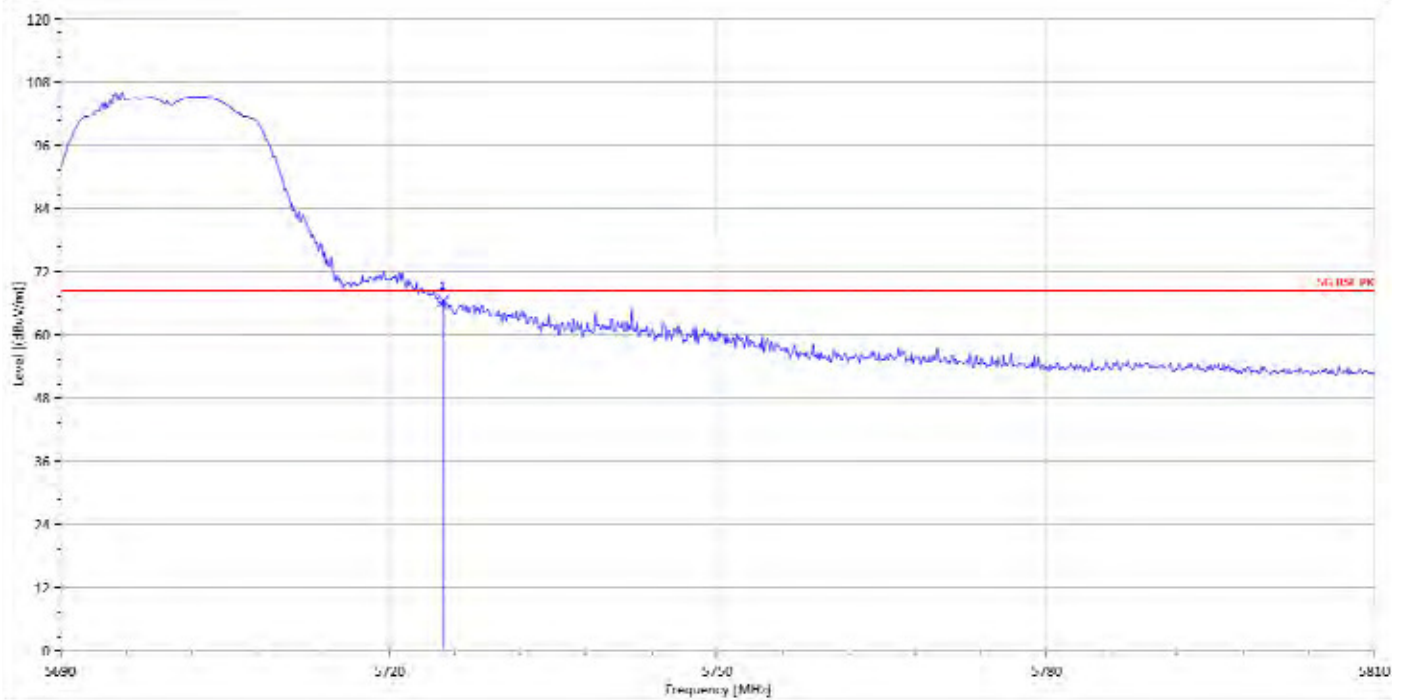
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Operation Mode : 802.11n20 Test Date : 2017/2/7
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	57.15	9.30	66.45	68.3	-1.85

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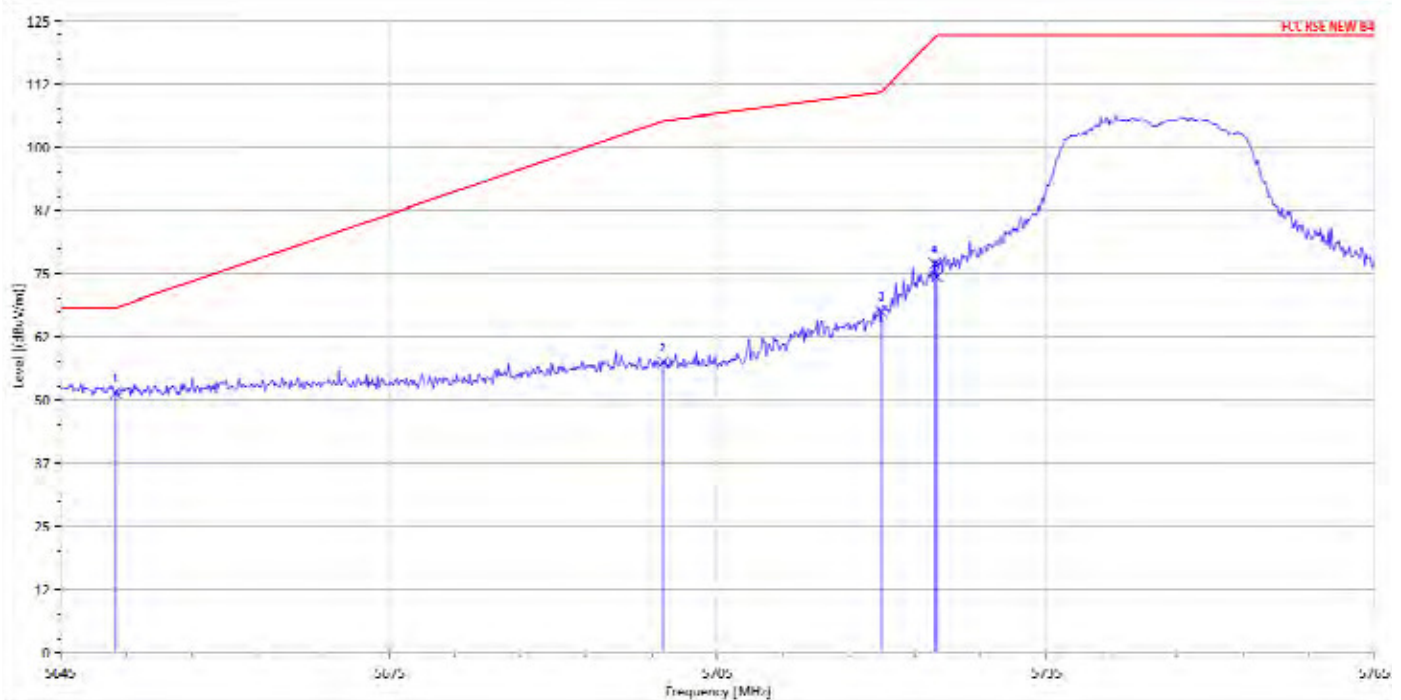
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	42.05	9.33	51.39	68.23	-16.84
5700.00	S	Peak	48.04	9.44	57.48	105.23	-47.75
5720.00	S	Peak	58.22	9.28	67.50	110.83	-43.33
5724.80	S	Peak	67.64	9.30	76.94	121.7736	-44.83
5725.00	E	Peak	65.01	9.30	74.31	122.23	-47.92

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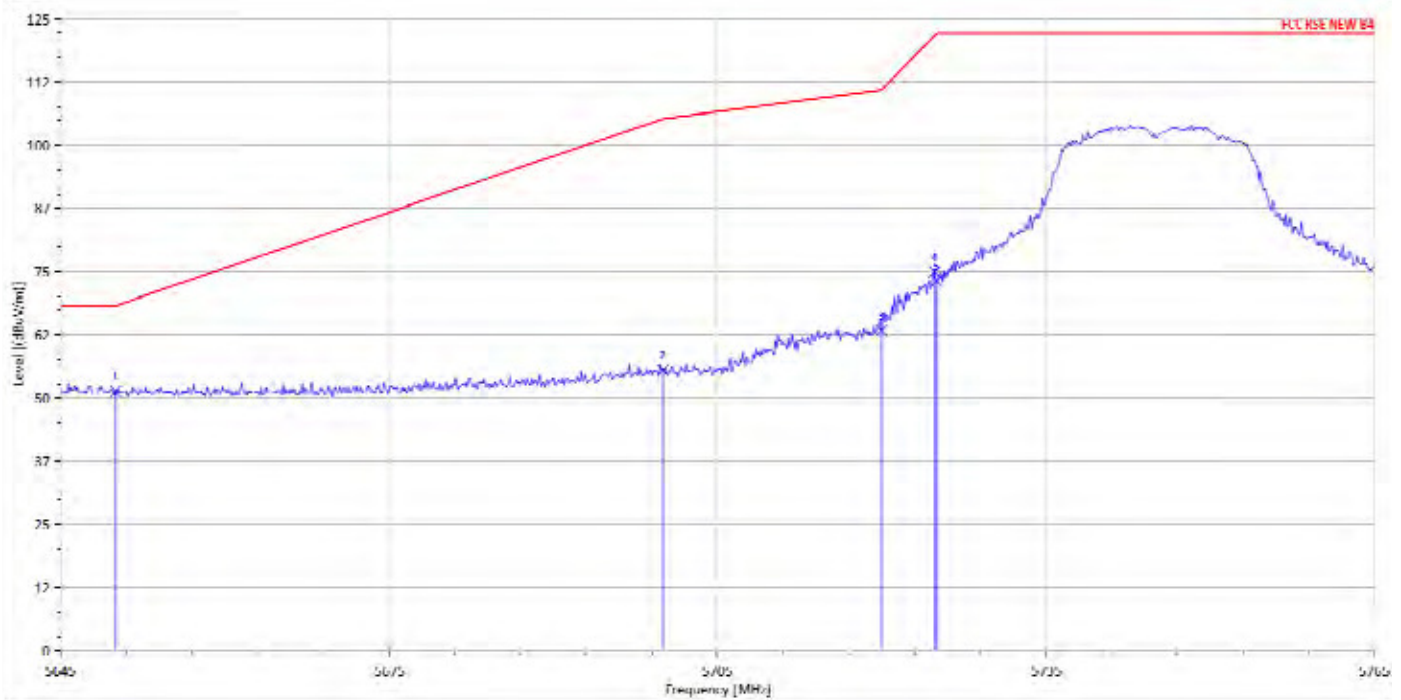
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	41.95	9.33	51.29	68.23	-16.94
5700.00	S	Peak	45.98	9.44	55.42	105.23	-49.81
5720.00	S	Peak	54.04	9.28	63.32	110.83	-47.51
5724.80	S	Peak	65.58	9.30	74.88	121.7736	-46.89
5725.00	E	Peak	63.79	9.30	73.09	122.23	-49.14

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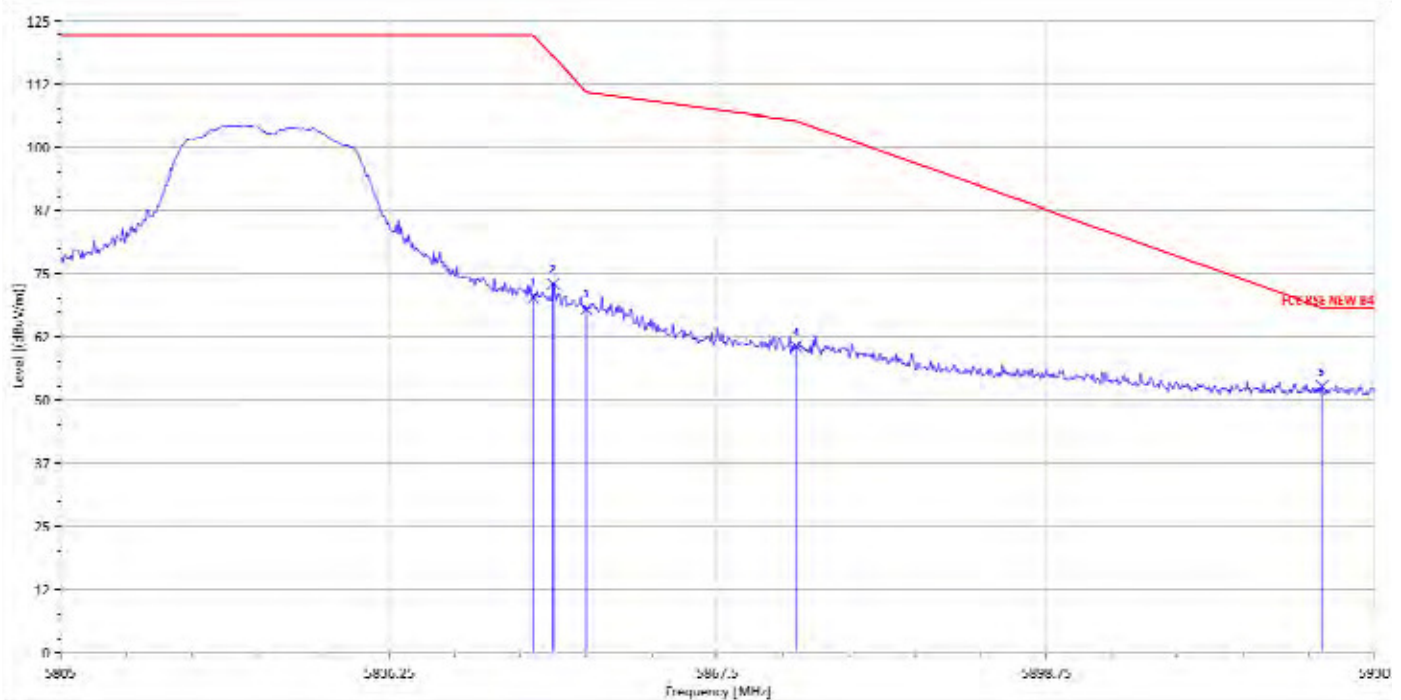
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	60.76	9.49	70.25	122.23	-51.98
5851.88	S	Peak	63.40	9.52	72.92	117.955	-45.03
5855.00	S	Peak	58.43	9.58	68.01	110.83	-42.82
5875.00	S	Peak	50.92	9.63	60.56	105.23	-44.67
5925.00	S	Peak	42.61	10.01	52.62	68.23	-15.61

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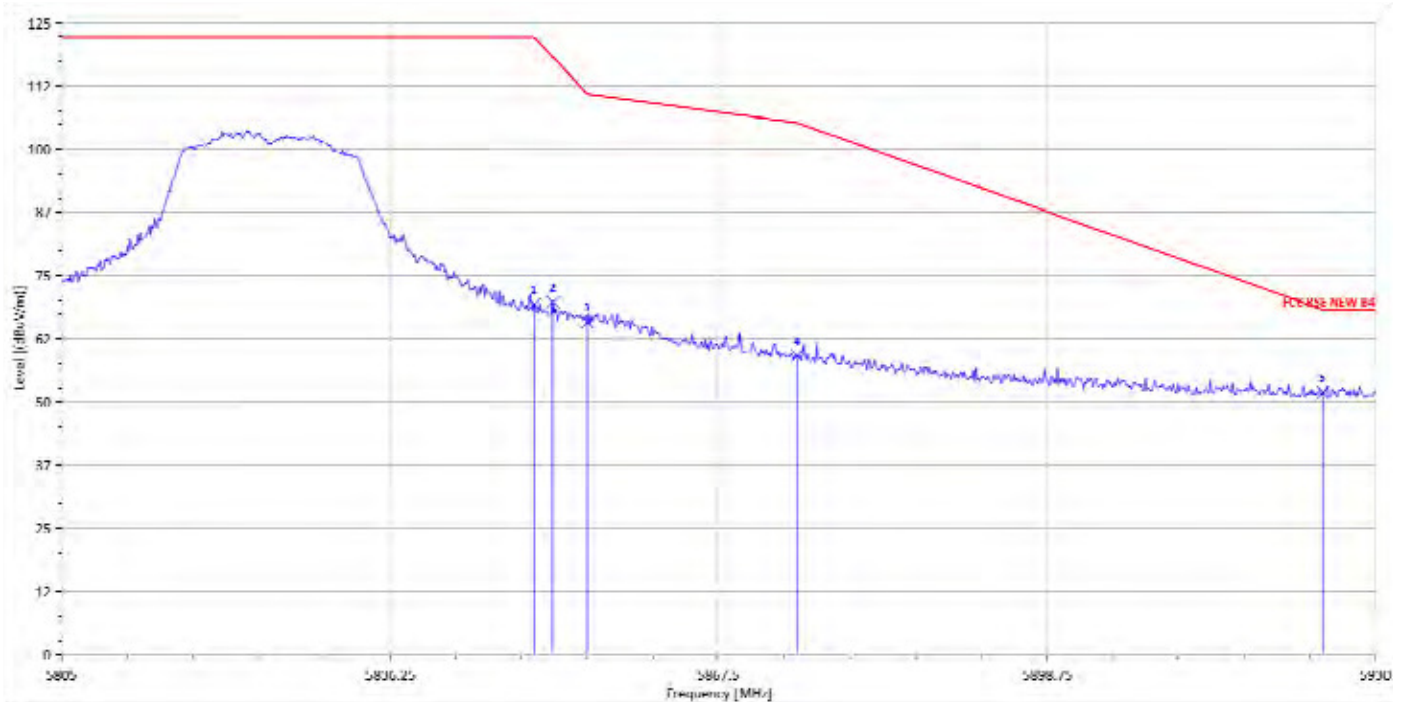
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Operation Mode : 802.11n20 Test Date : 2017/2/8
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	59.81	9.49	69.30	122.23	-52.93
5851.75	S	Peak	60.23	9.52	69.75	118.24	-48.49
5855.00	S	Peak	56.26	9.58	65.84	110.83	-44.99
5875.00	S	Peak	49.49	9.63	59.13	105.23	-46.10
5925.00	S	Peak	41.81	10.01	51.82	68.23	-16.41

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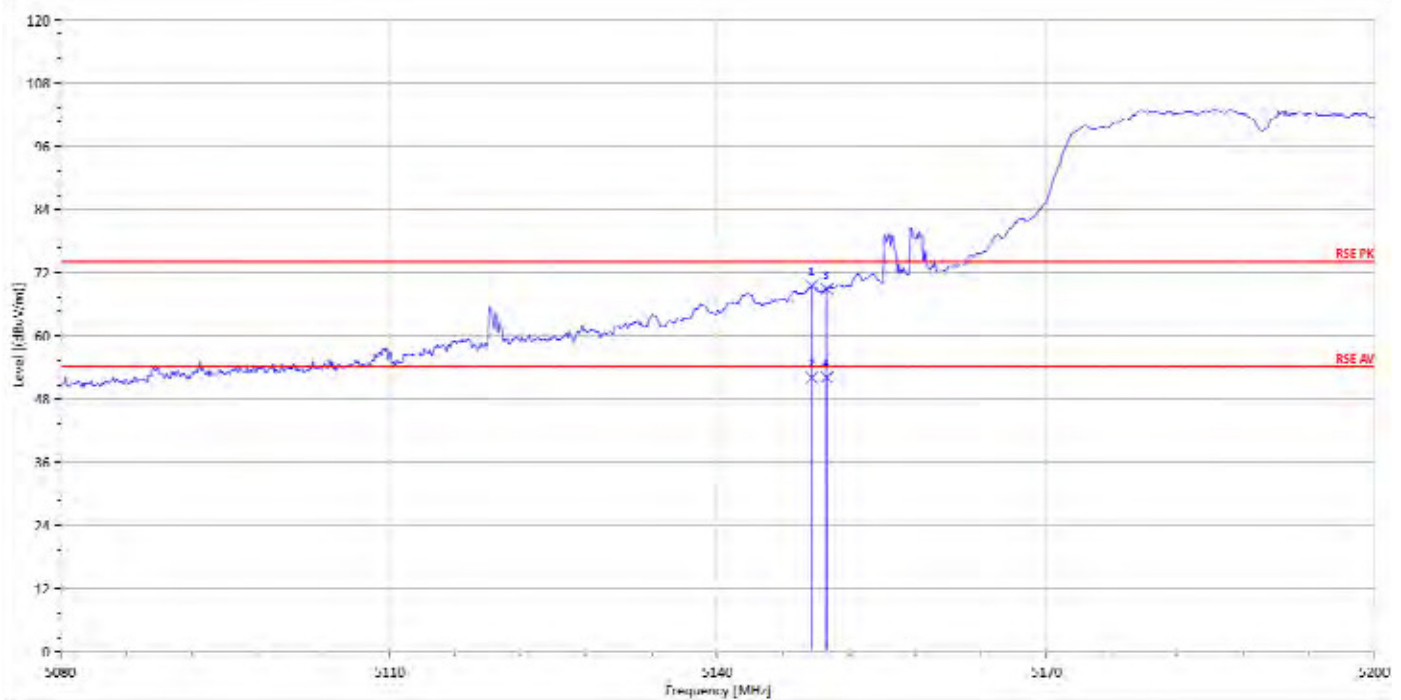
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802.11n HT40 mode

Operation Mode :	802.11n40	Test Date :	2017/2/7
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5148.64	S	Peak	61.22	8.18	69.40	74	-4.60
5148.64	S	Average	43.76	8.18	51.94	54	-2.06
5150.00	E	Peak	60.60	8.19	68.79	74	-5.21
5150.00	E	Average	43.83	8.19	52.02	54	-1.98

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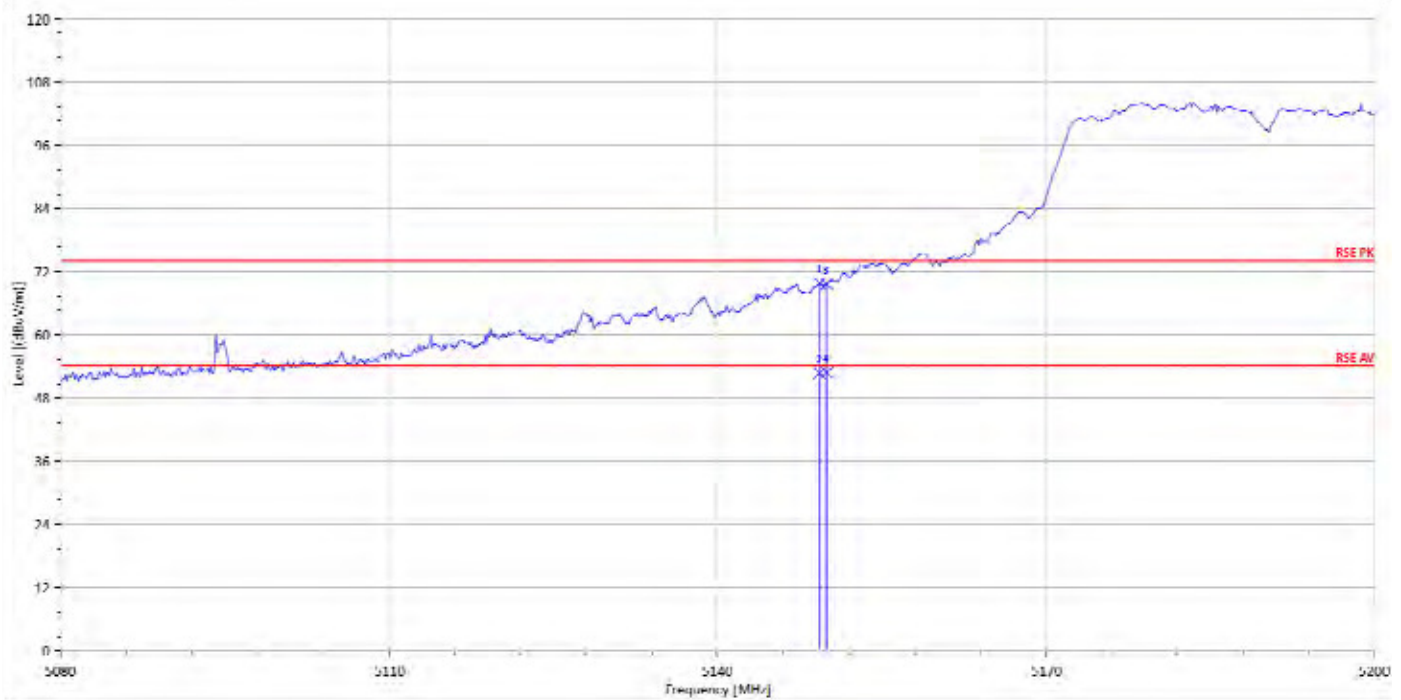
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Operation Mode :	802.11n40	Test Date :	2017/2/7
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5149.36	S	Peak	61.54	8.19	69.72	74	-4.28
5149.36	S	Average	44.44	8.19	52.63	54	-1.37
5150.00	E	Peak	61.36	8.19	69.55	74	-4.45
5150.00	E	Average	44.56	8.19	52.75	54	-1.25

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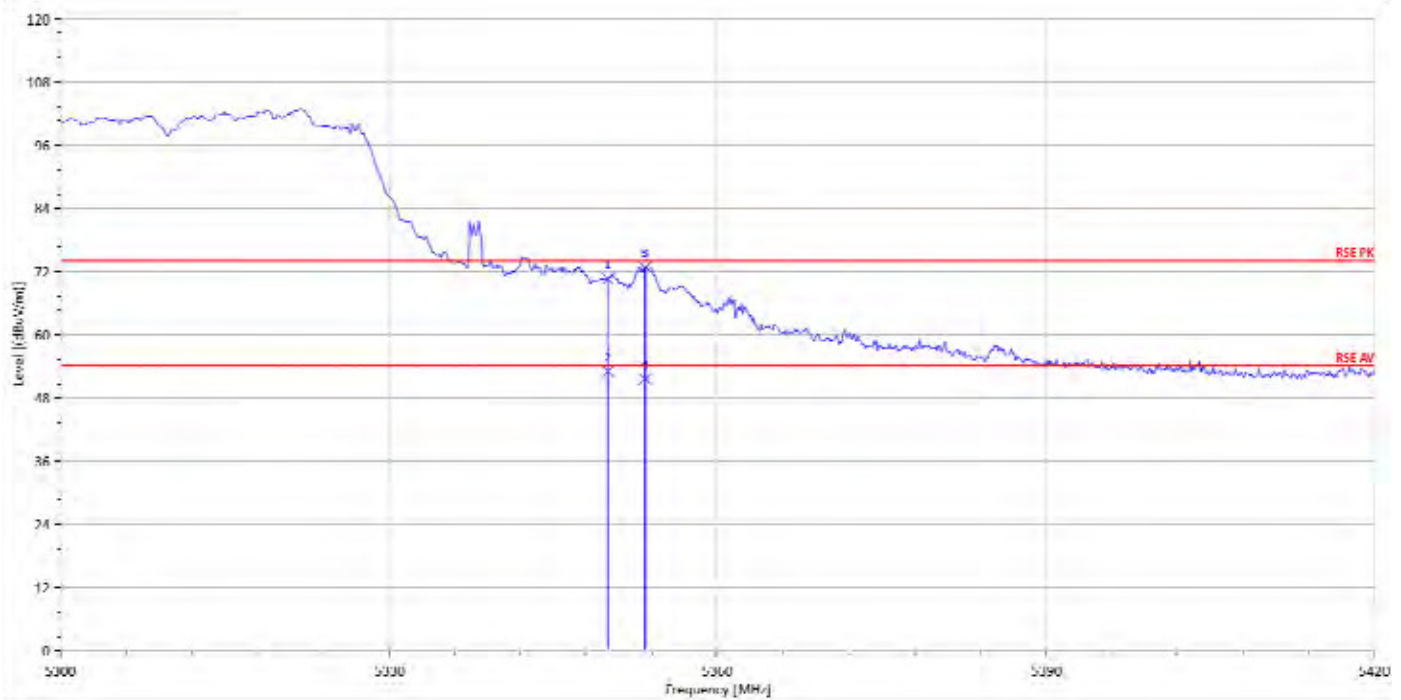
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Operation Mode : 802.11n40 Test Date : 2017/2/7
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Peak	61.58	8.96	70.55	74	-3.45
5350.00	E	Average	44.03	8.96	52.99	54	-1.01
5353.40	S	Peak	63.79	8.98	72.77	74	-1.23
5353.40	S	Average	42.55	8.98	51.53	54	-2.47

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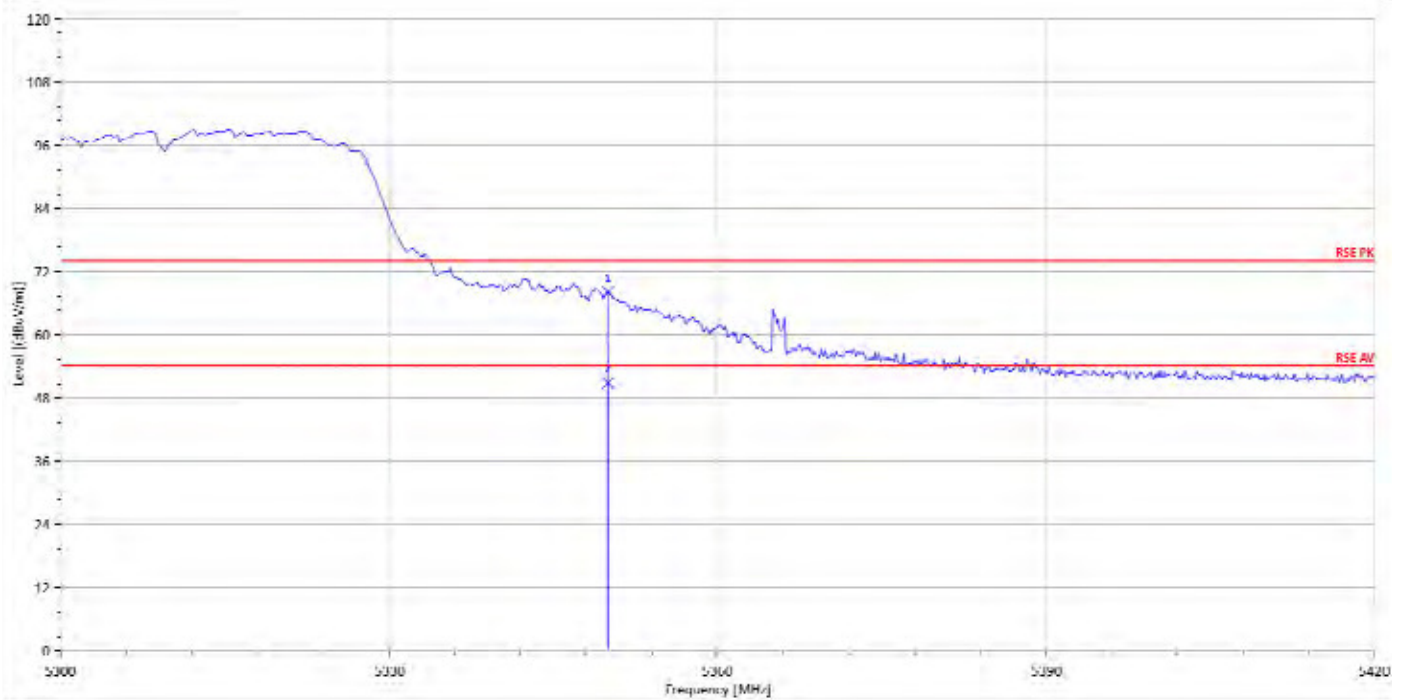
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Operation Mode : 802.11n40 Test Date : 2017/2/7
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	59.05	8.96	68.02	74	-5.98
5350.00	E	Average	41.79	8.96	50.75	54	-3.25

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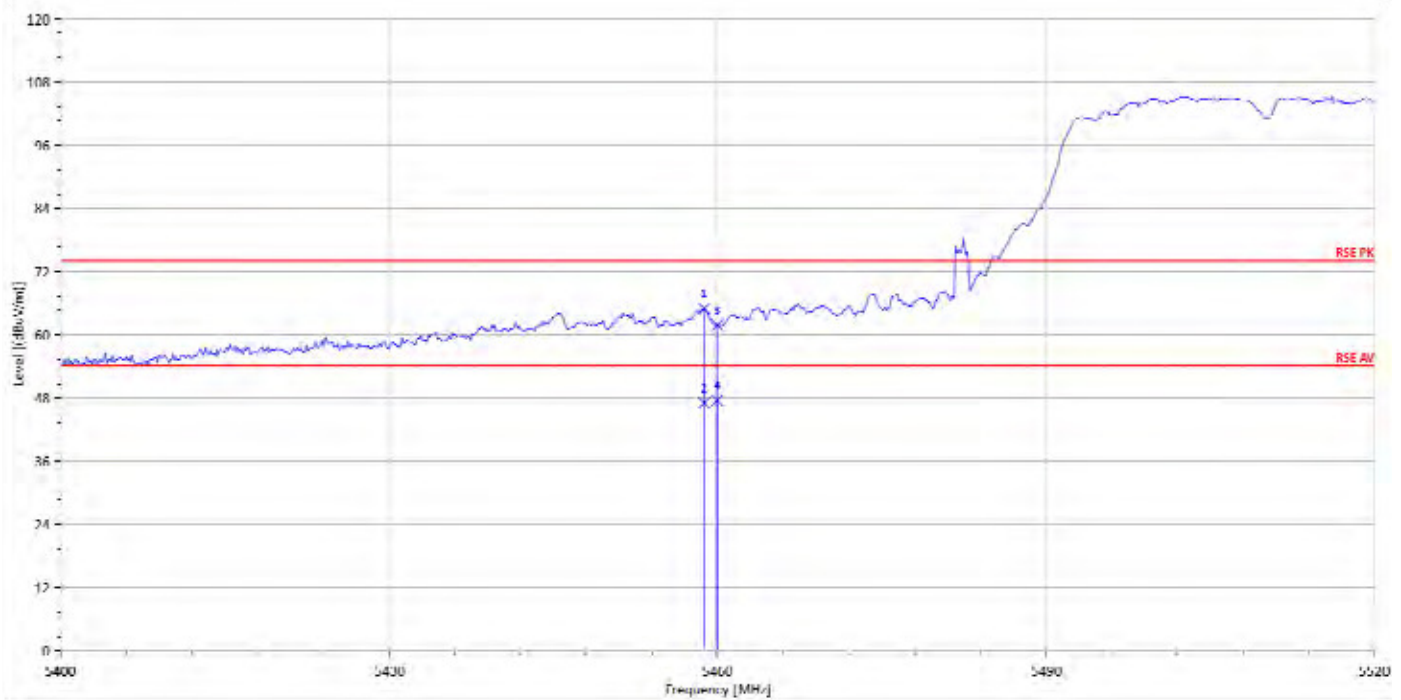
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Operation Mode : 802.11n40 Test Date : 2017/2/7
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5458.80	S	Peak	56.12	8.89	65.02	74	-8.98
5458.80	S	Average	38.21	8.89	47.10	54	-6.90
5460.00	E	Peak	52.99	8.88	61.87	74	-12.13
5460.00	E	Average	38.69	8.88	47.57	54	-6.43

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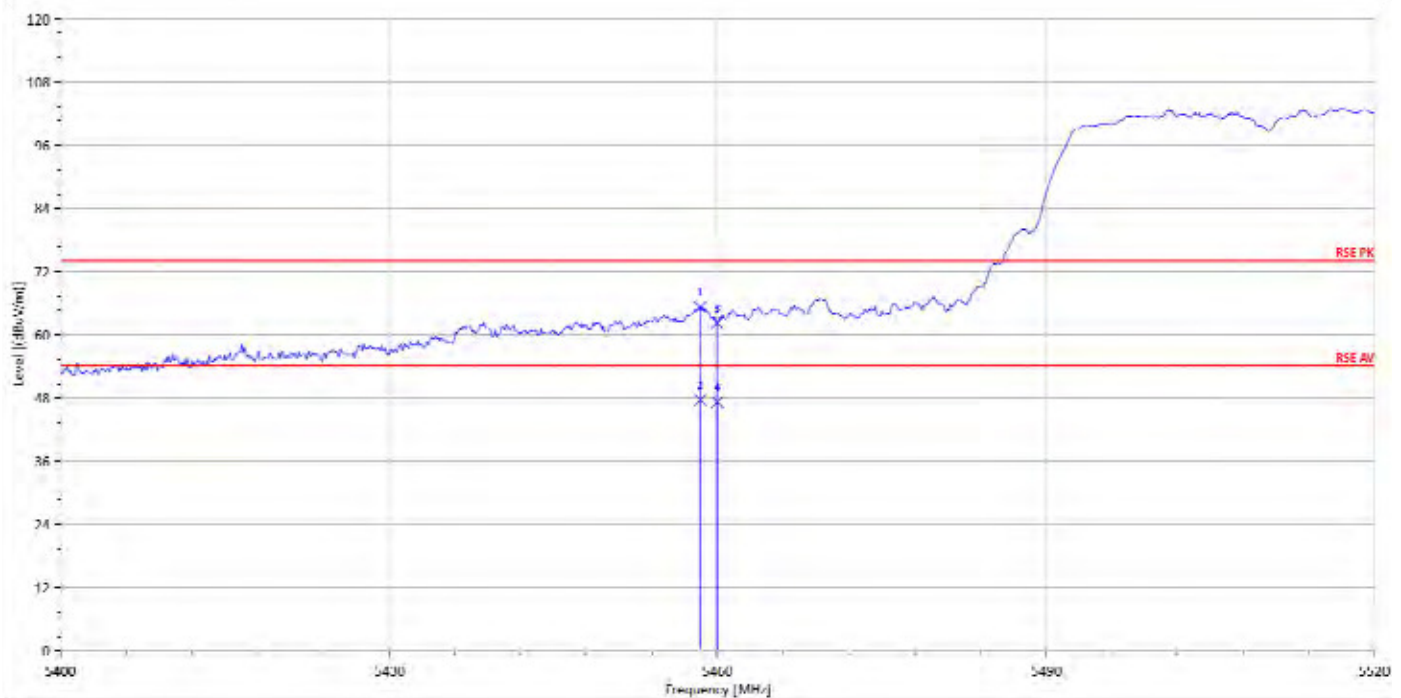
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Operation Mode :	802.11n40	Test Date :	2017/2/7
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5458.44	S	Peak	56.41	8.90	65.31	74	-8.69
5458.44	S	Average	38.77	8.90	47.67	54	-6.33
5460.00	E	Peak	53.39	8.88	62.27	74	-11.73
5460.00	E	Average	38.38	8.88	47.26	54	-6.74

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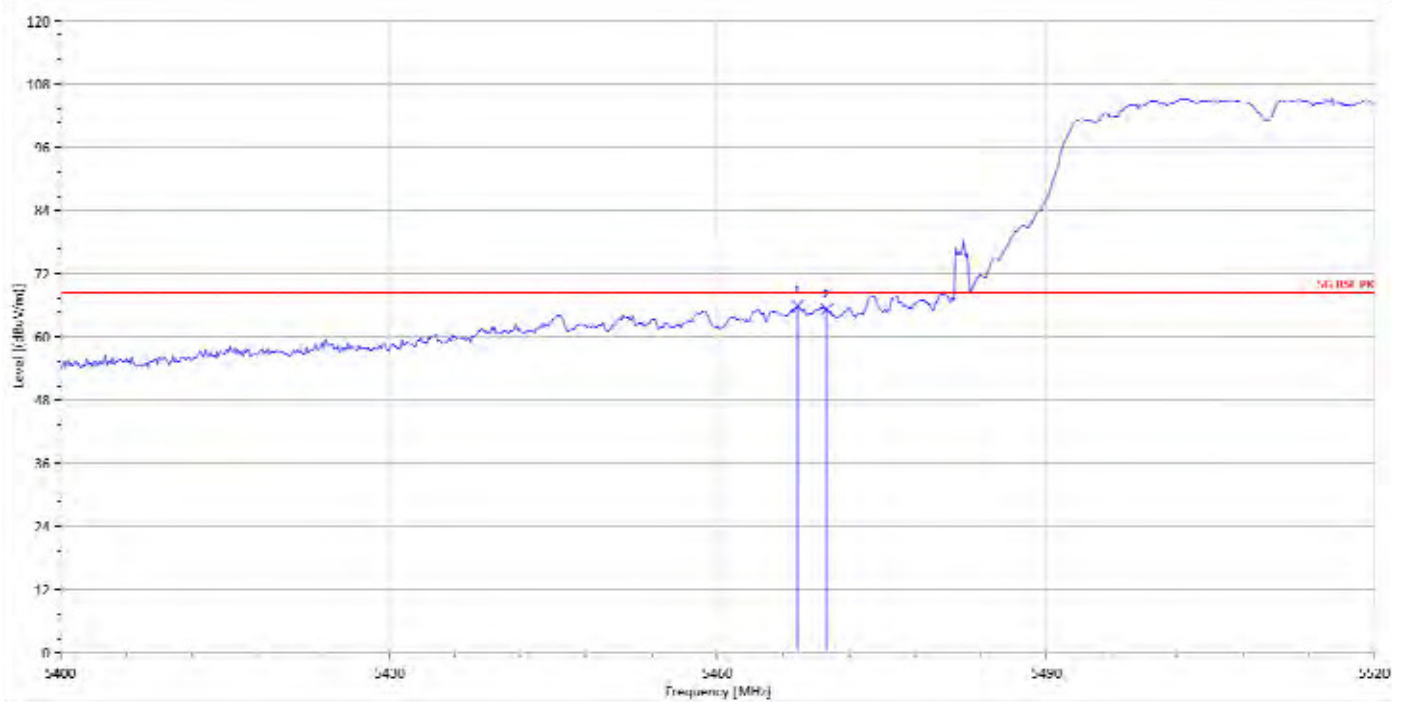
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Operation Mode :	802.11n40	Test Date :	2017/2/7
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5467.32	S	Peak	57.09	8.81	65.90	68.3	-2.40
5470.00	E	Peak	56.50	8.79	65.29	68.3	-3.01

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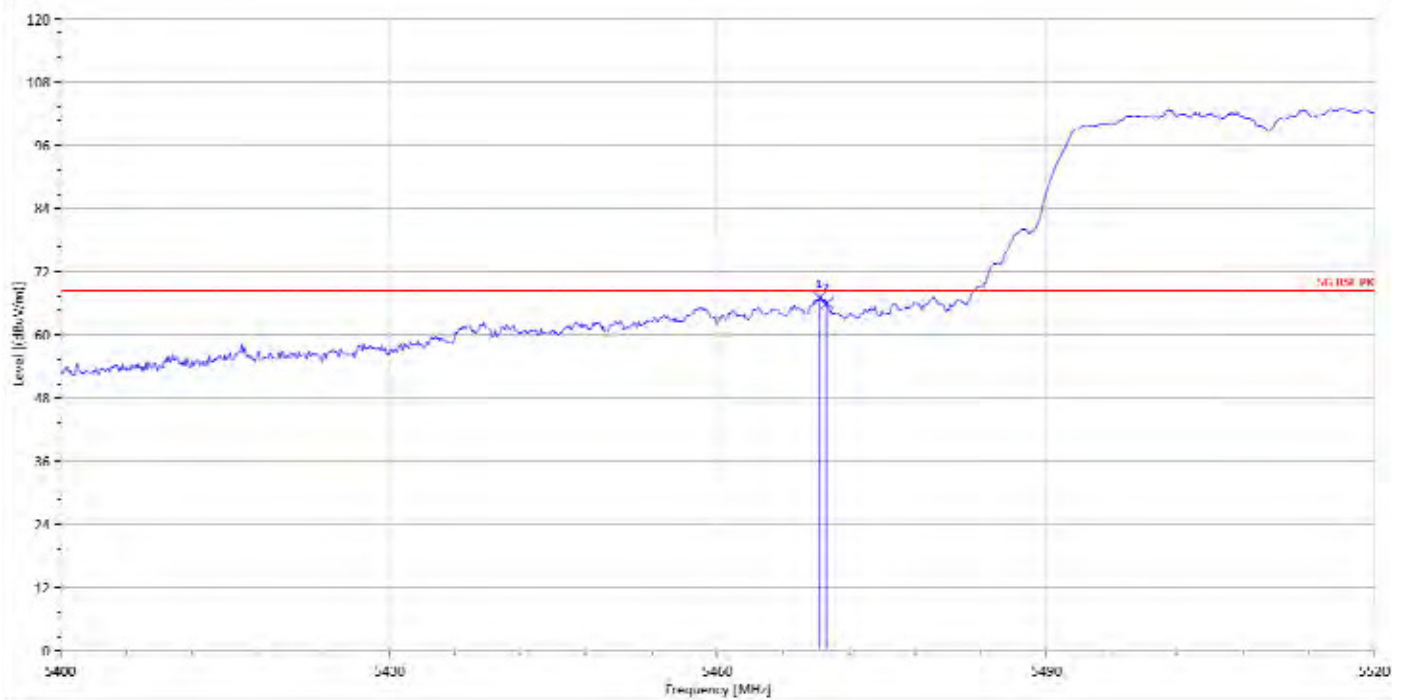
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Operation Mode :	802.11n40	Test Date :	2017/2/7
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5469.36	S	Peak	58.14	8.79	66.93	68.3	-1.37
5470.00	E	Peak	57.28	8.79	66.07	68.3	-2.23

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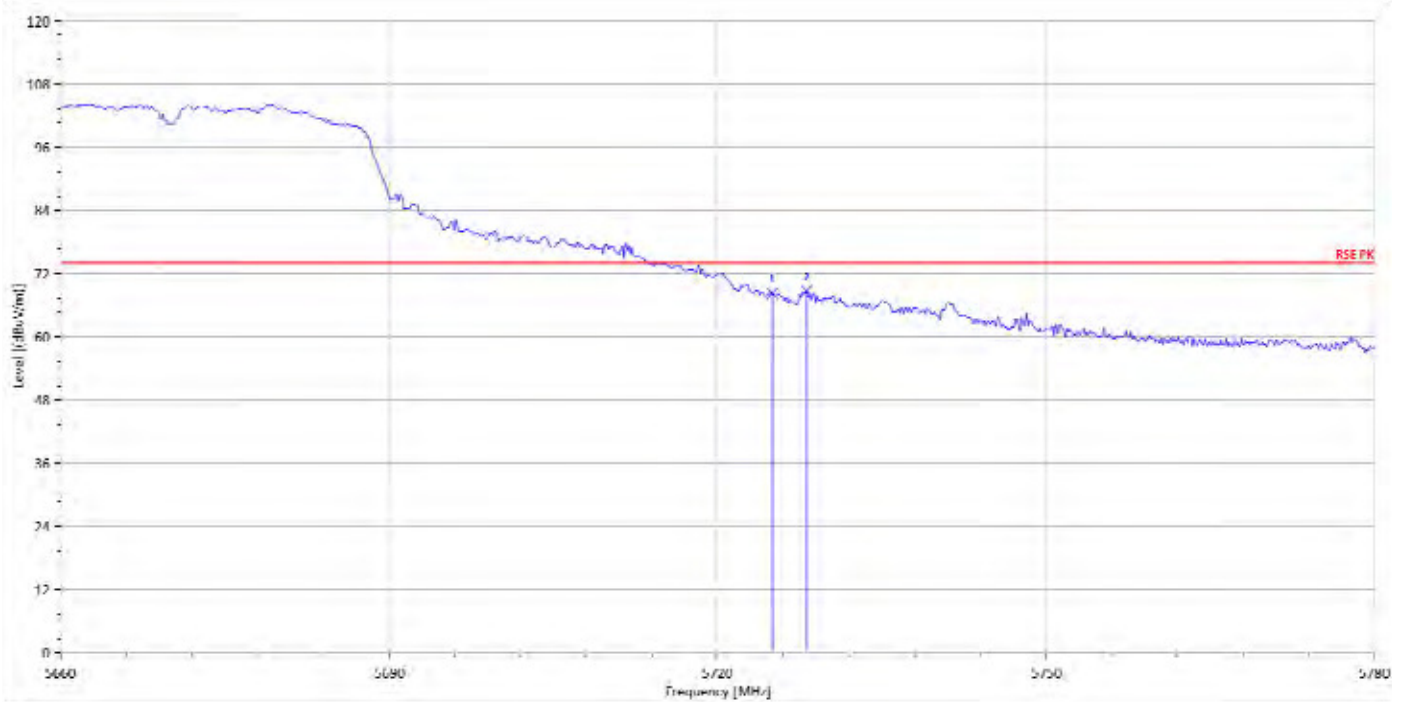
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Operation Mode : 802.11n40 Test Date : 2017/2/7
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	58.91	9.30	68.21	74	-5.79
5728.16	S	Peak	59.32	9.30	68.62	74	-5.39

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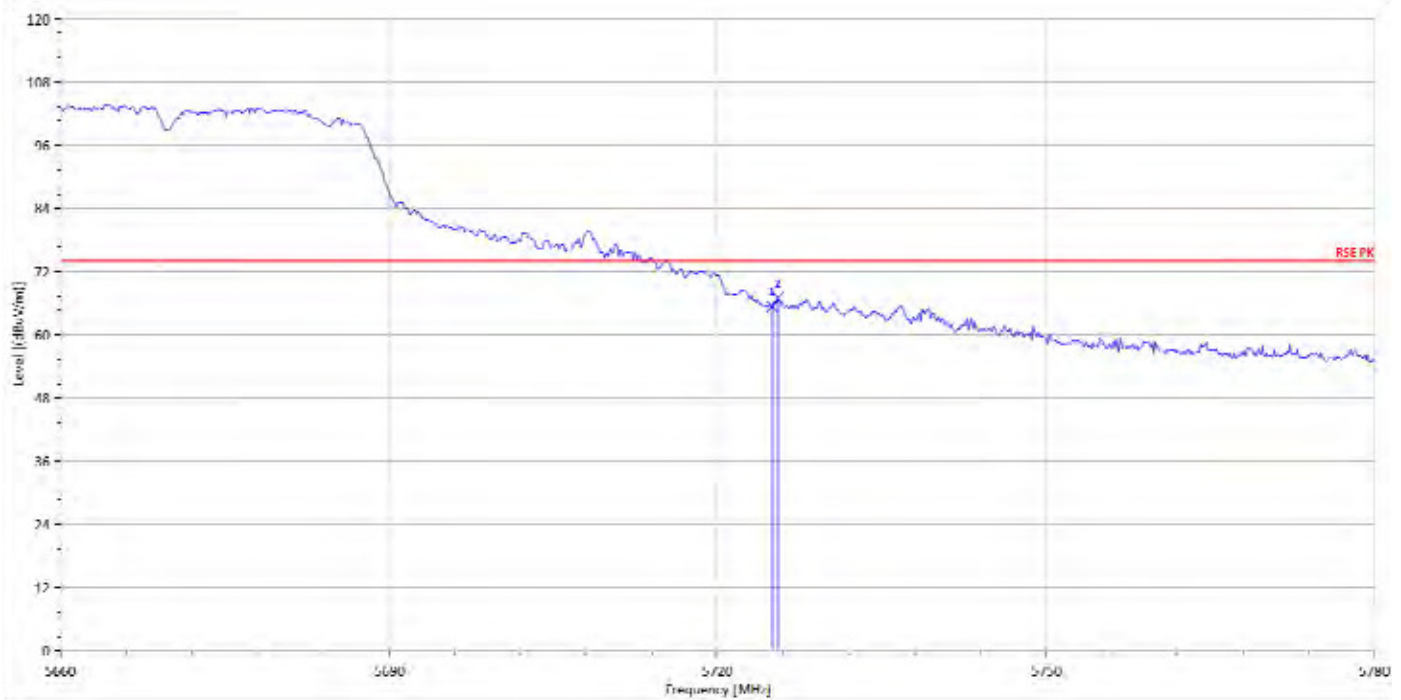
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Operation Mode : 802.11n40 Test Date : 2017/2/7
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	56.13	9.30	65.43	74	-8.57
5725.52	S	Peak	57.64	9.30	66.94	74	-7.06

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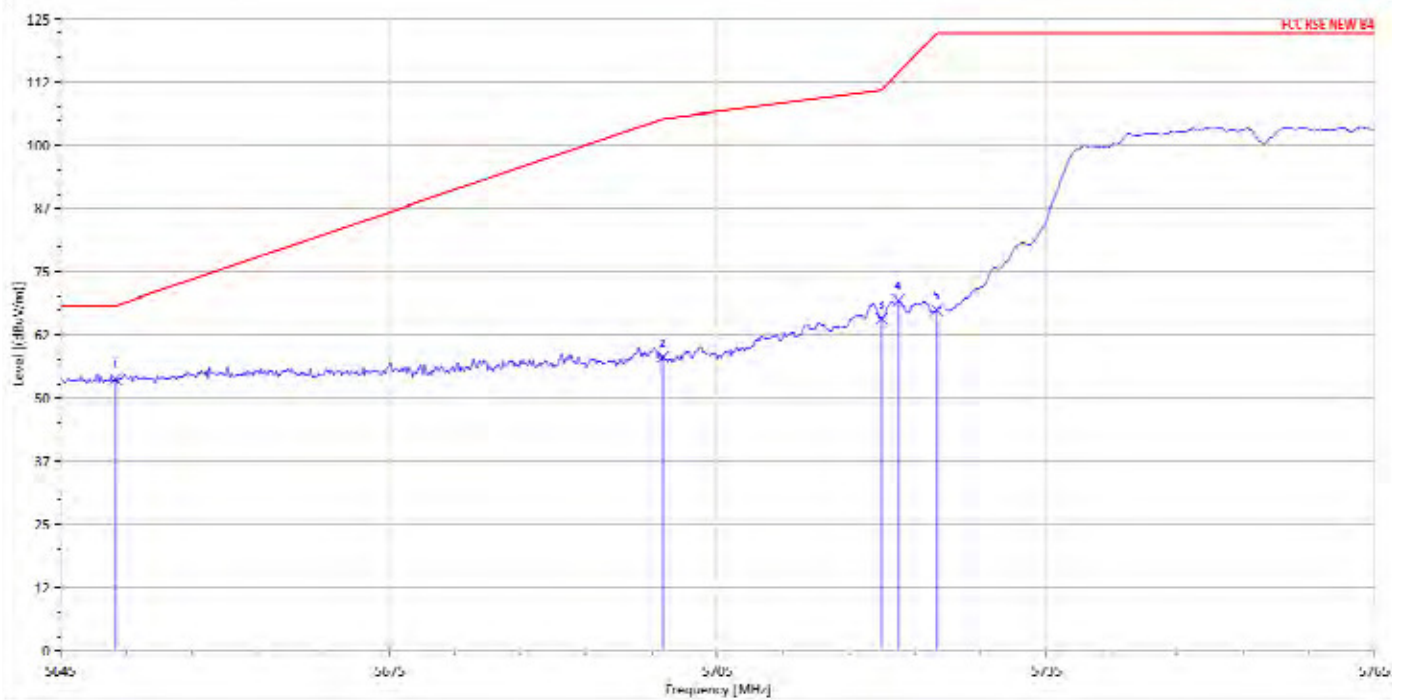
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Operation Mode : 802.11n40 Test Date : 2017/2/8
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	44.33	9.33	53.67	68.23	-14.56
5700.00	S	Peak	48.61	9.44	58.05	105.23	-47.18
5720.00	S	Peak	56.46	9.28	65.74	110.83	-45.09
5721.56	S	Peak	60.03	9.29	69.31	114.3869	-45.07
5725.00	E	Peak	58.16	9.30	67.46	122.23	-54.77

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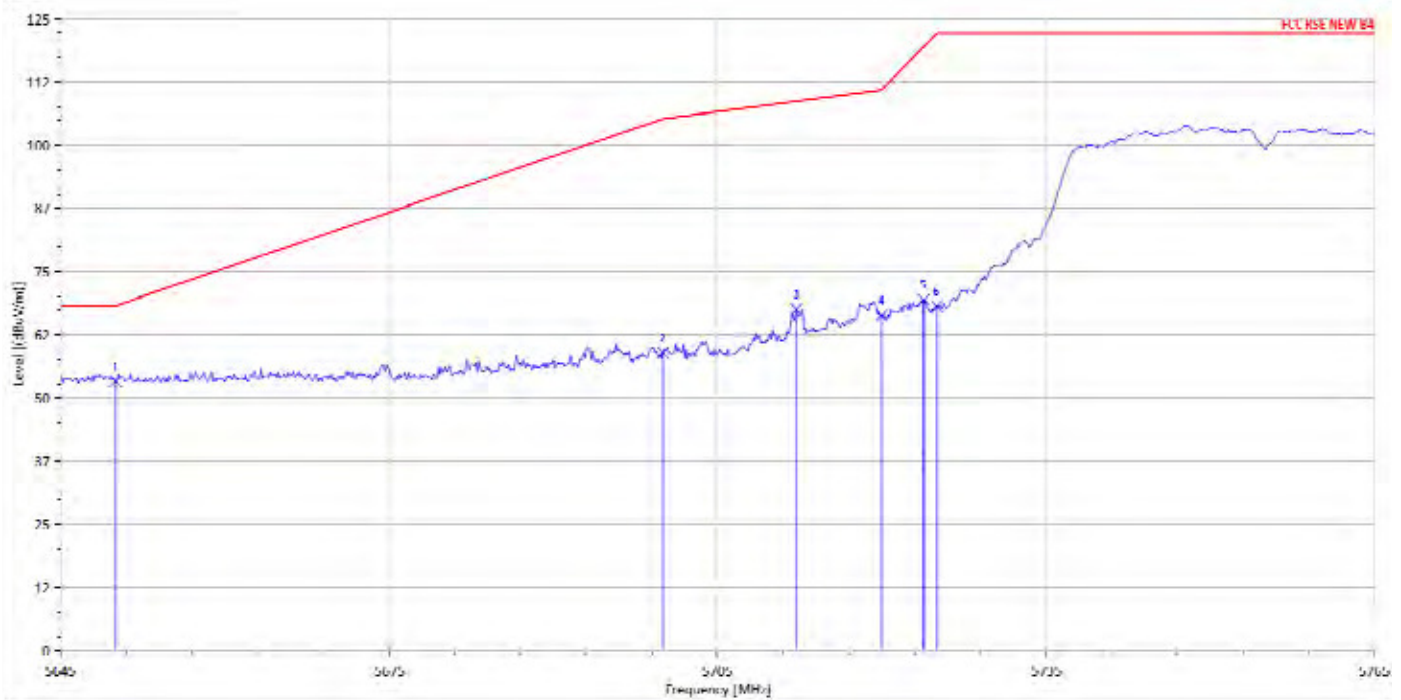
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Operation Mode : 802.11n40 Test Date : 2017/2/8
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	43.85	9.33	53.18	68.23	-15.05
5700.00	S	Peak	49.48	9.44	58.92	105.23	-46.31
5712.20	S	Peak	58.33	9.25	67.58	108.6461	-41.06
5720.00	S	Peak	57.08	9.28	66.36	110.83	-44.47
5723.84	S	Peak	60.16	9.30	69.46	119.5848	-50.12
5725.00	E	Peak	58.90	9.30	68.20	122.23	-54.03

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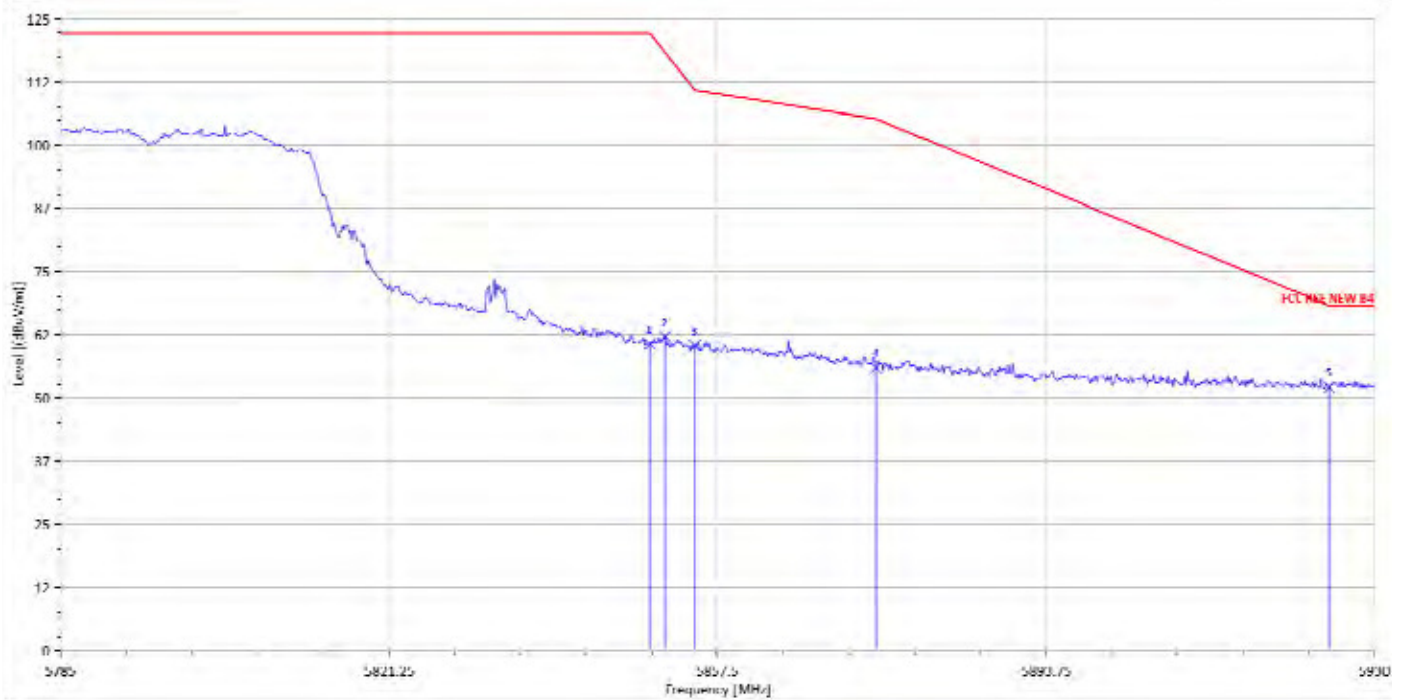
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Operation Mode : 802.11n40 Test Date : 2017/2/8
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	51.13	9.49	60.62	122.23	-61.61
5851.70	S	Peak	52.59	9.52	62.11	118.3536	-56.24
5855.00	S	Peak	50.74	9.58	60.32	110.83	-50.51
5875.00	S	Peak	46.28	9.63	55.91	105.23	-49.32
5925.00	S	Peak	42.05	10.01	52.07	68.23	-16.16

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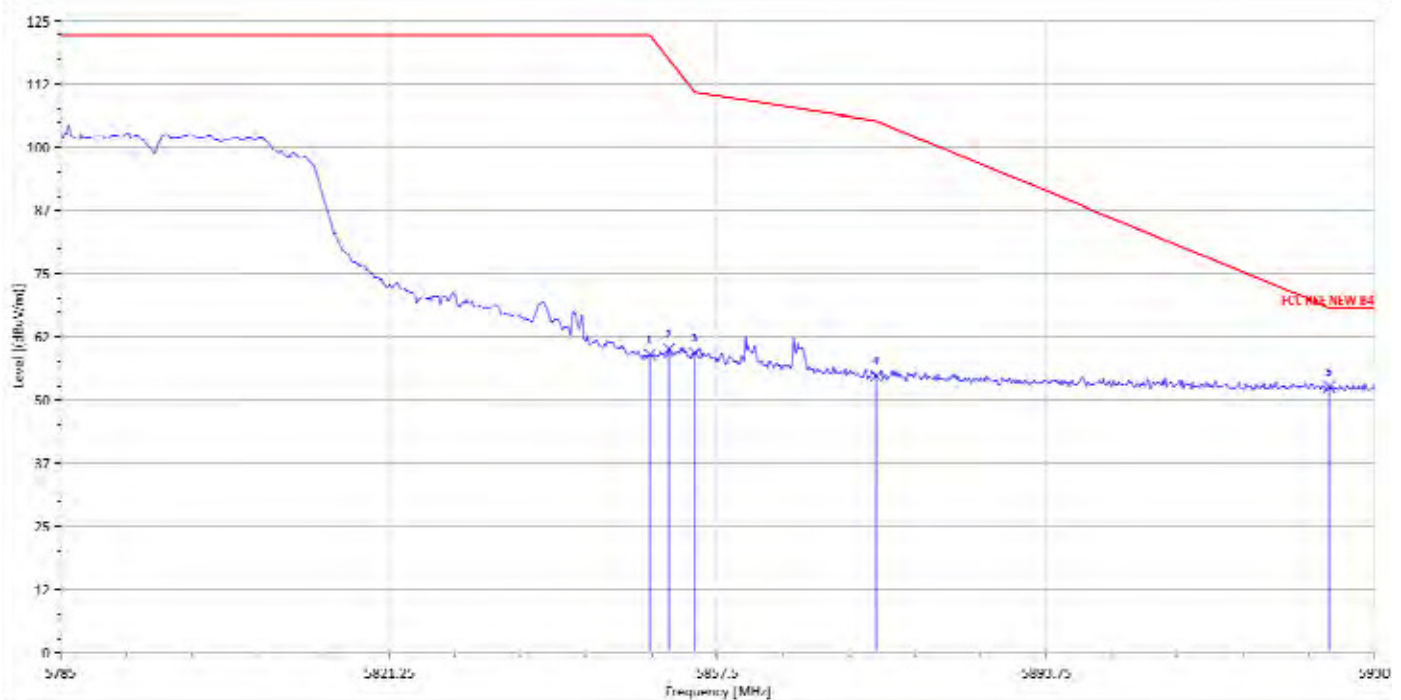
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Operation Mode : 802.11n40 Test Date : 2017/2/8
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	49.51	9.49	58.99	122.23	-63.24
5852.14	S	Peak	50.53	9.53	60.06	117.3627	-57.30
5855.00	S	Peak	49.69	9.58	59.27	110.83	-51.56
5875.00	S	Peak	45.09	9.63	54.72	105.23	-50.51
5925.00	S	Peak	42.56	10.01	52.57	68.23	-15.66

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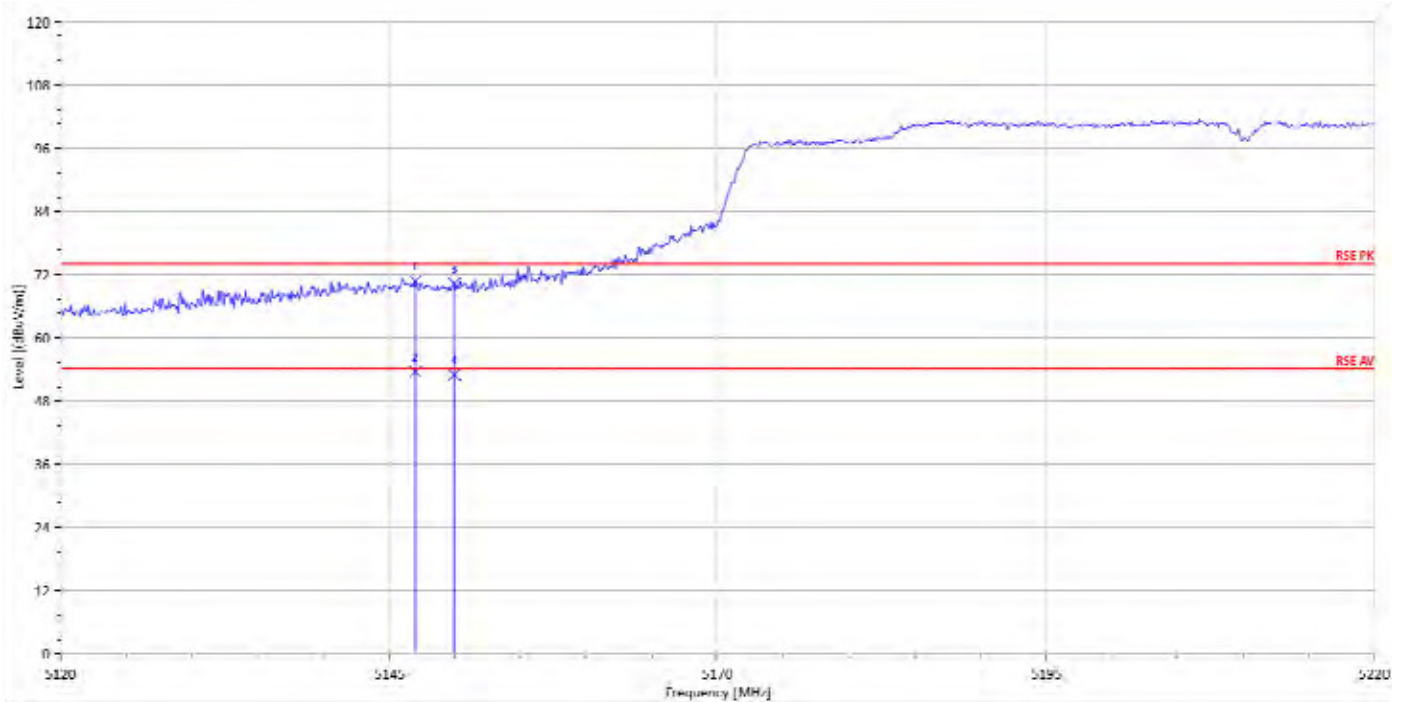
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802.11ac80 VHT mode

Operation Mode :	802.11ac80	Test Date :	2017/2/7
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.00	S	Peak	62.49	8.17	70.66	74	-3.34
5147.00	S	Average	45.32	8.17	53.49	54	-0.51
5150.00	E	Peak	62.03	8.19	70.22	74	-3.78
5150.00	E	Average	44.71	8.19	52.90	54	-1.10

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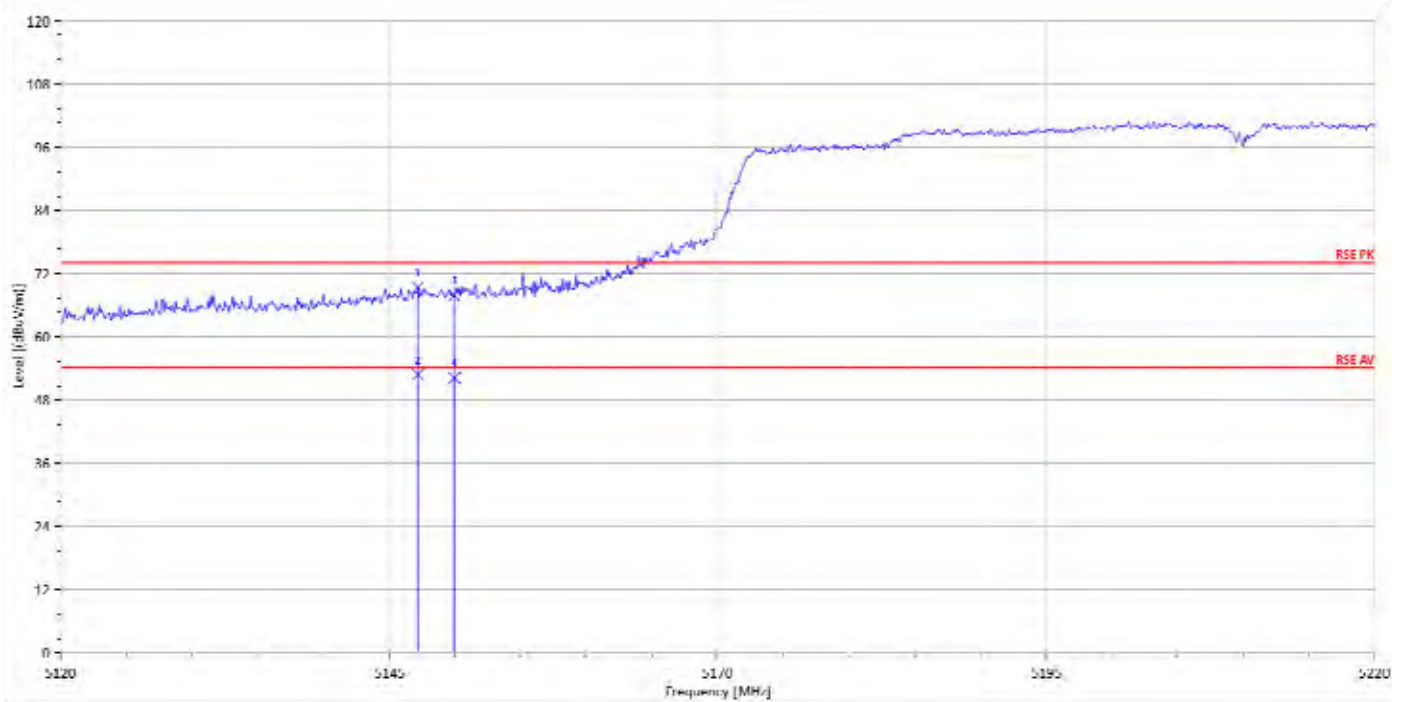
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Operation Mode :	802.11ac80	Test Date :	2017/2/7
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.20	S	Peak	61.15	8.17	69.32	74	-4.68
5147.20	S	Average	44.59	8.17	52.76	54	-1.24
5150.00	E	Peak	59.63	8.19	67.82	74	-6.18
5150.00	E	Average	43.93	8.19	52.12	54	-1.88

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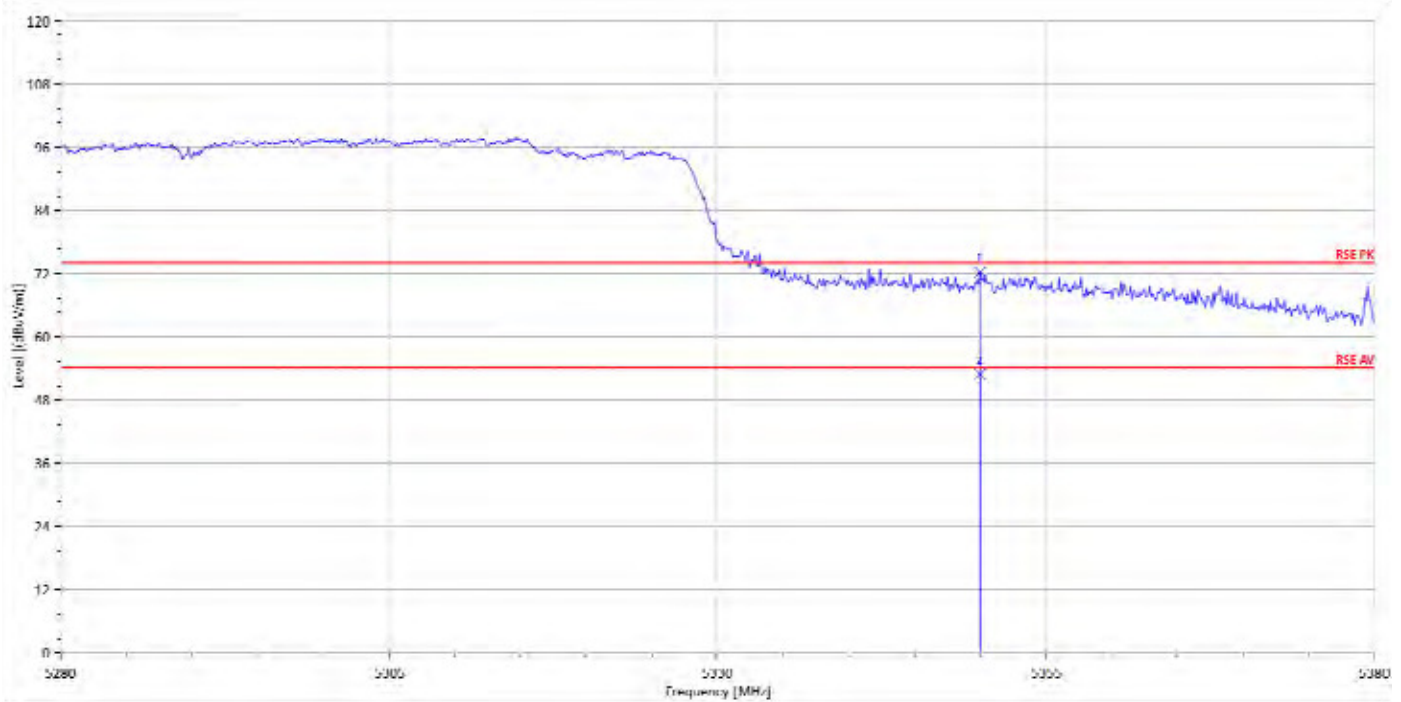
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Operation Mode : 802.11ac80 Test Date : 2017/2/8
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	63.29	8.96	72.25	74	-1.75
5350.00	E	Average	43.86	8.96	52.82	54	-1.18

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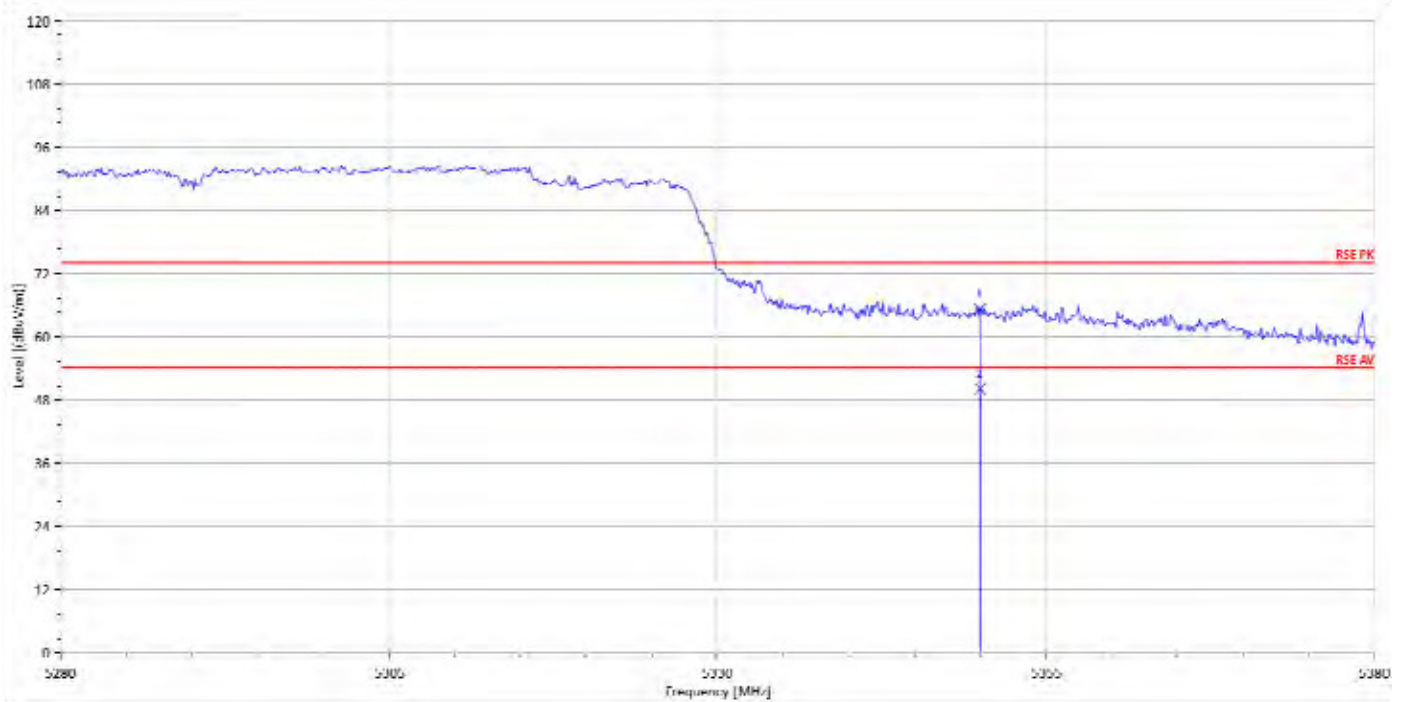
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Operation Mode :	802.11ac80	Test Date :	2017/2/8
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	56.35	8.96	65.32	74	-8.68
5350.00	E	Average	41.12	8.96	50.08	54	-3.92

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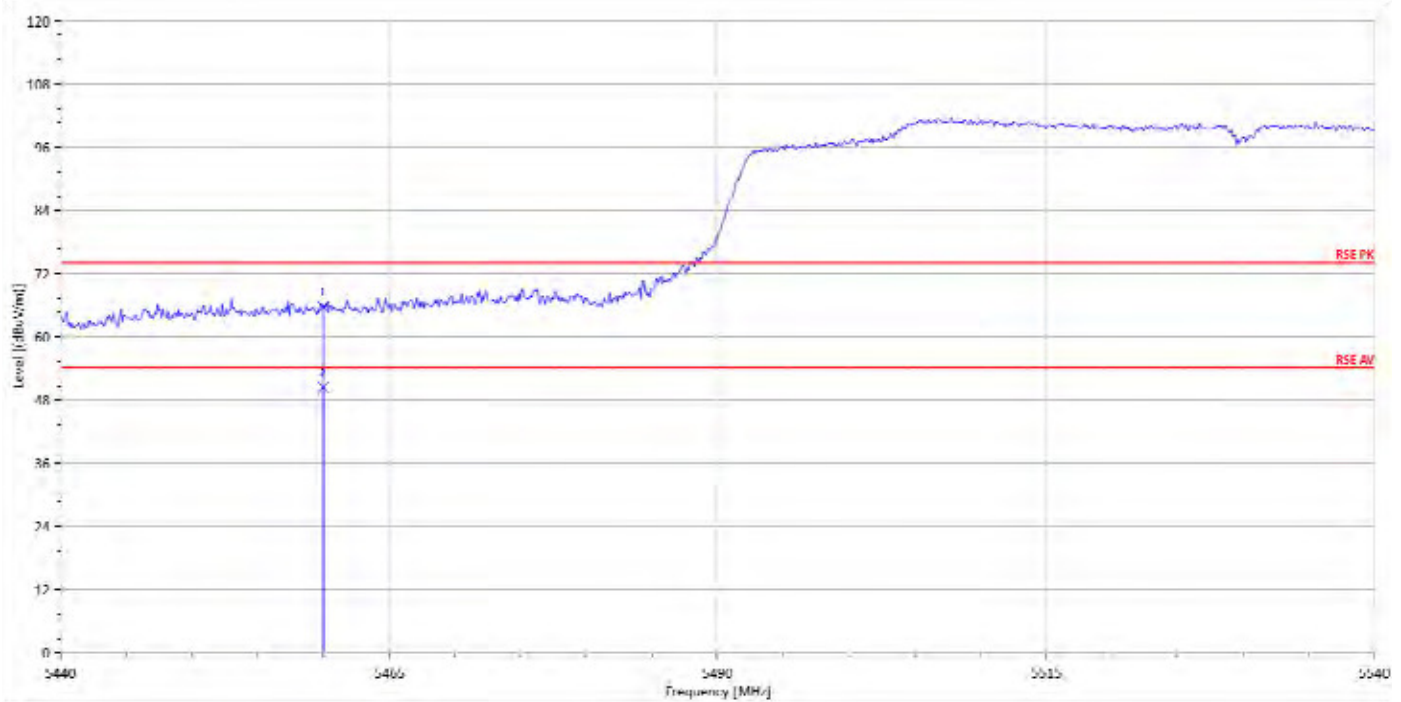
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Operation Mode :	802.11ac80	Test Date :	2017/2/7
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Peak	56.80	8.88	65.68	74	-8.32
5460.00	E	Average	41.45	8.88	50.33	54	-3.67

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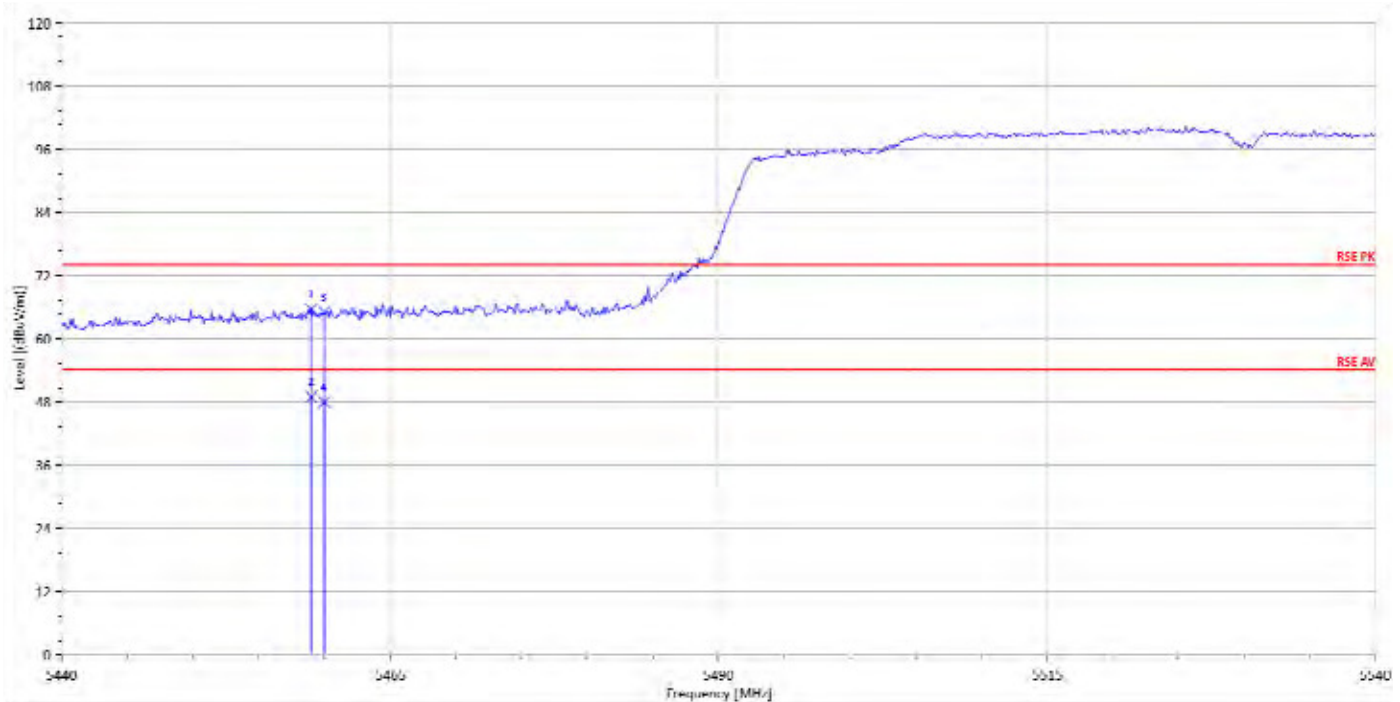
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Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5459.00	S	Peak	56.80	8.89	65.69	74	-8.31
5459.00	S	Average	40.09	8.89	48.98	54	-5.02
5460.00	E	Peak	56.26	8.88	65.14	74	-8.86
5460.00	E	Average	39.16	8.88	48.04	54	-5.96

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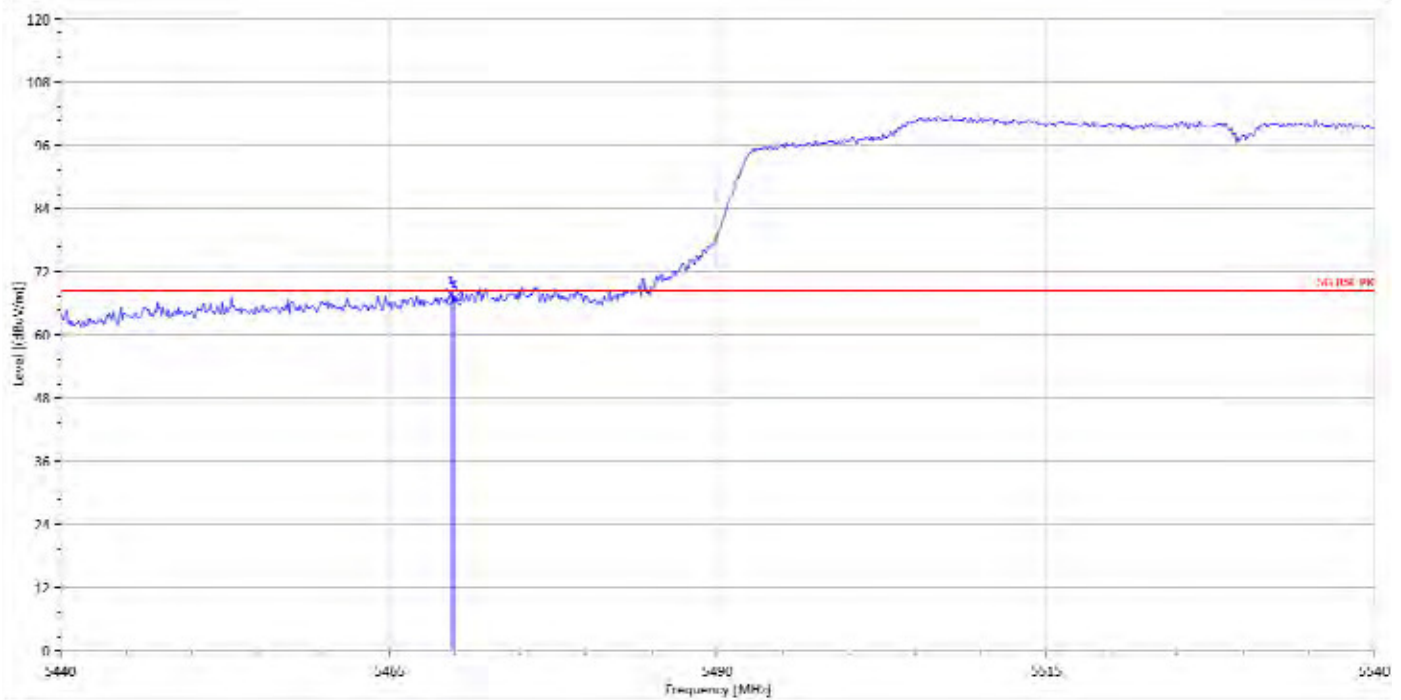
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Operation Mode :	802.11ac80	Test Date :	2017/2/8
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5469.80	S	Peak	58.87	8.79	67.66	68.3	-0.64
5470.00	E	Peak	58.02	8.79	66.81	68.3	-1.49

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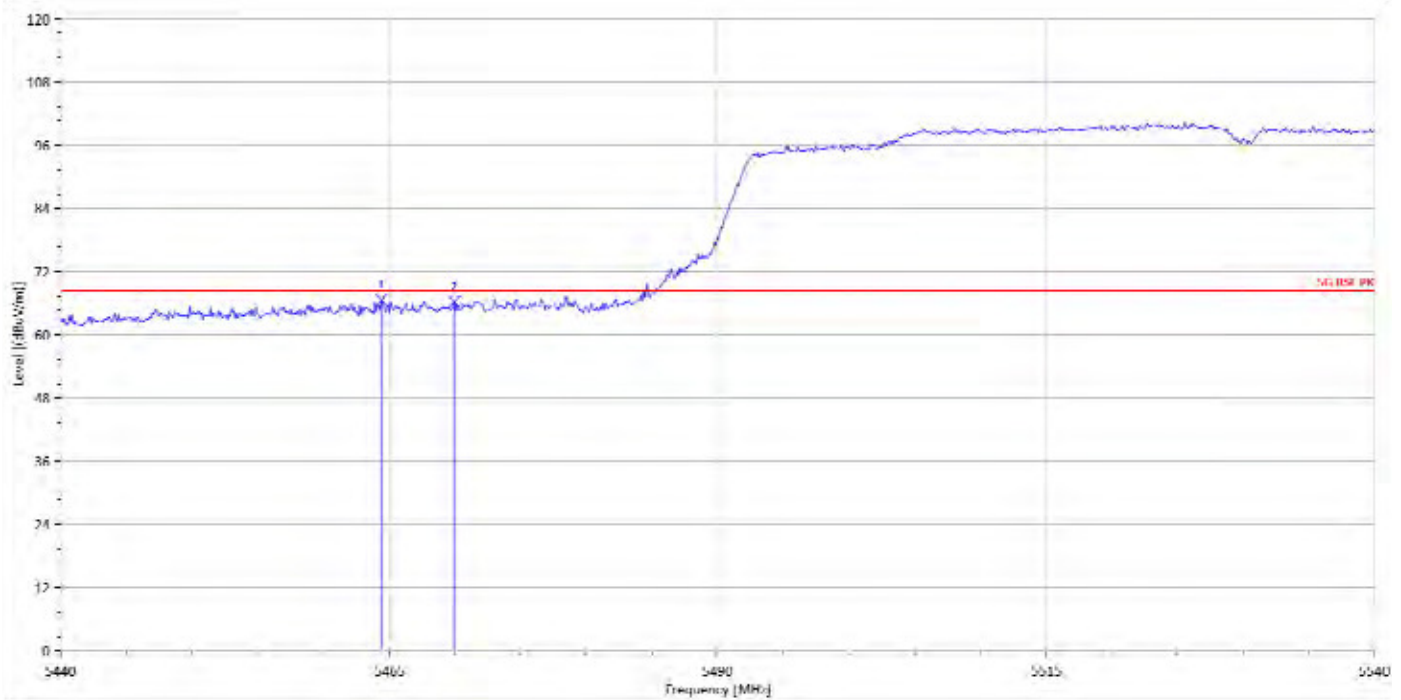
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Operation Mode :	802.11ac80	Test Date :	2017/2/8
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5464.40	S	Peak	57.78	8.84	66.62	68.3	-1.68
5470.00	E	Peak	57.50	8.79	66.28	68.3	-2.02

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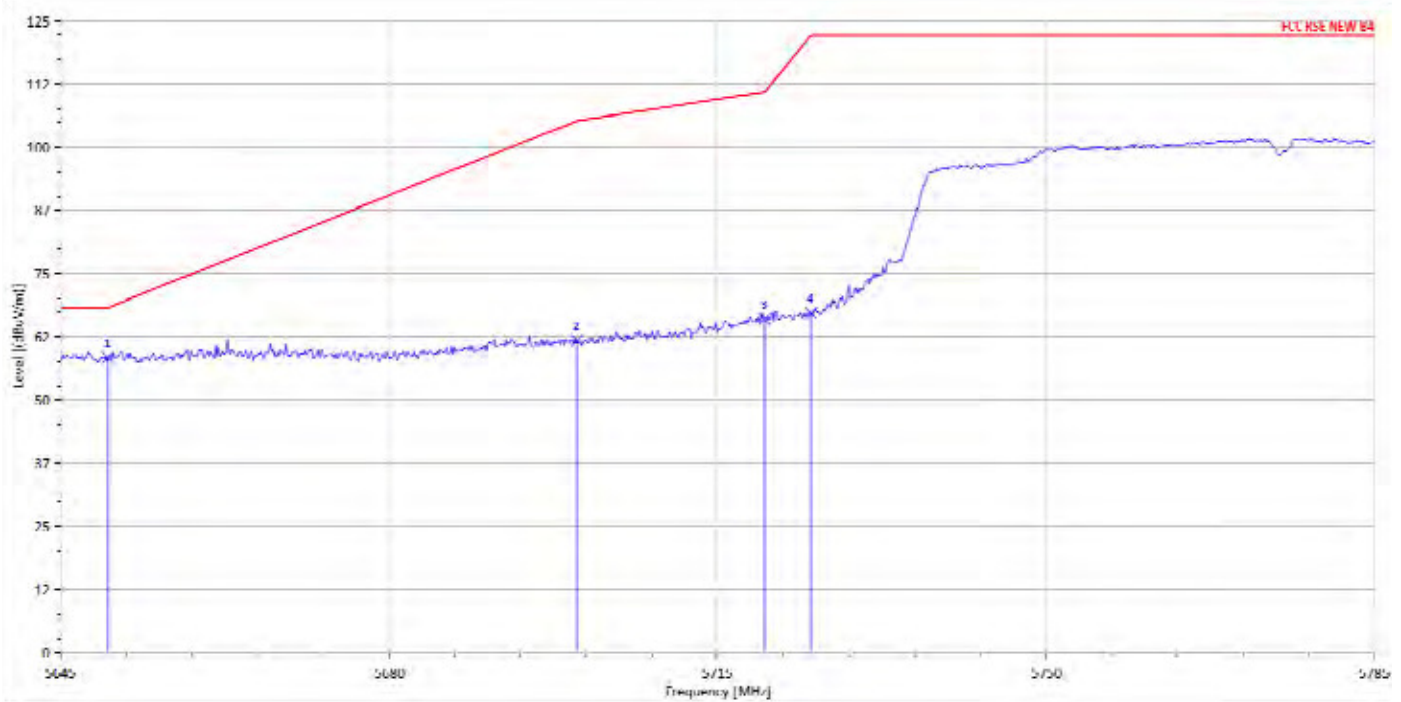
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Operation Mode : 802.11ac80 Test Date : 2017/2/8
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	48.98	9.33	58.32	68.23	-9.91
5700.00	S	Peak	52.33	9.44	61.77	105.23	-43.46
5720.00	S	Peak	56.71	9.28	65.99	110.83	-44.84
5725.00	E	Peak	57.87	9.30	67.17	122.23	-55.06

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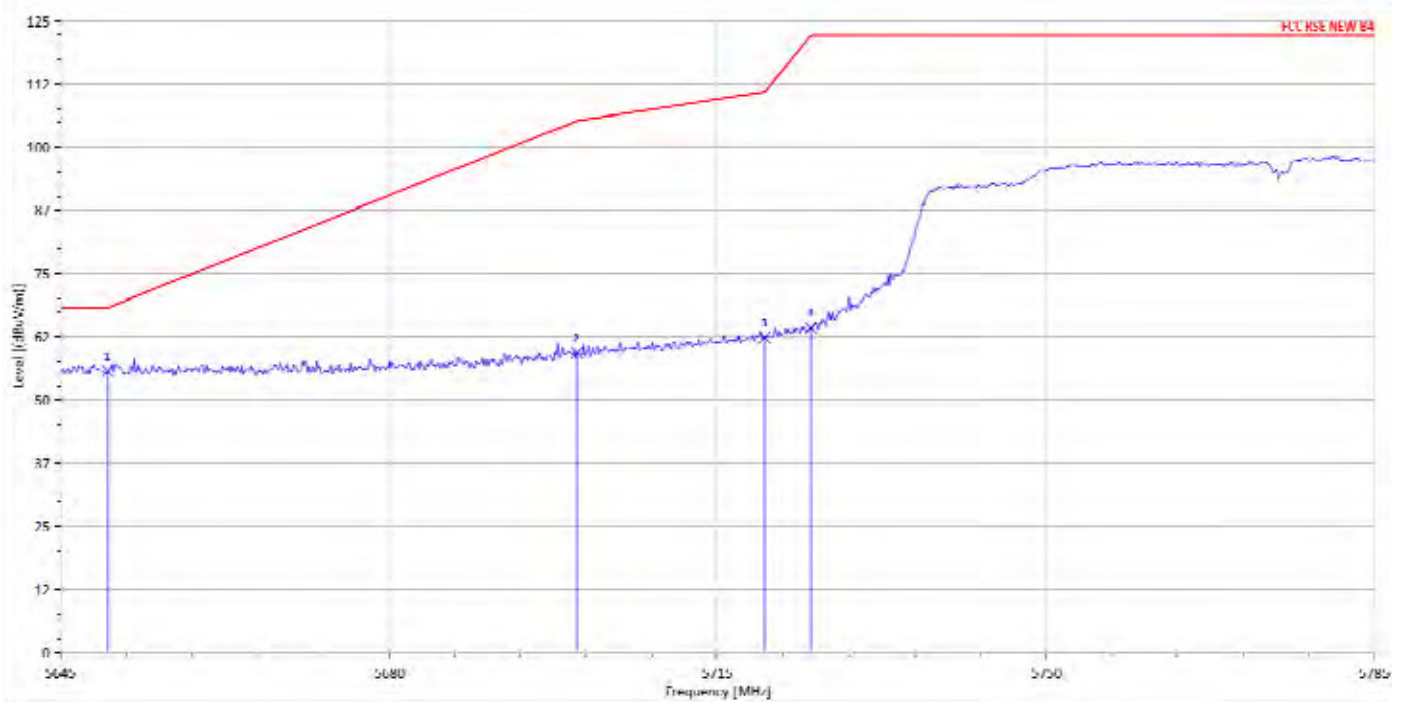
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Operation Mode : 802.11ac80 Test Date : 2017/2/8
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	46.31	9.33	55.65	68.23	-12.58
5700.00	S	Peak	49.91	9.44	59.35	105.23	-45.88
5720.00	S	Peak	53.07	9.28	62.35	110.83	-48.48
5725.00	E	Peak	54.96	9.30	64.26	122.23	-57.97

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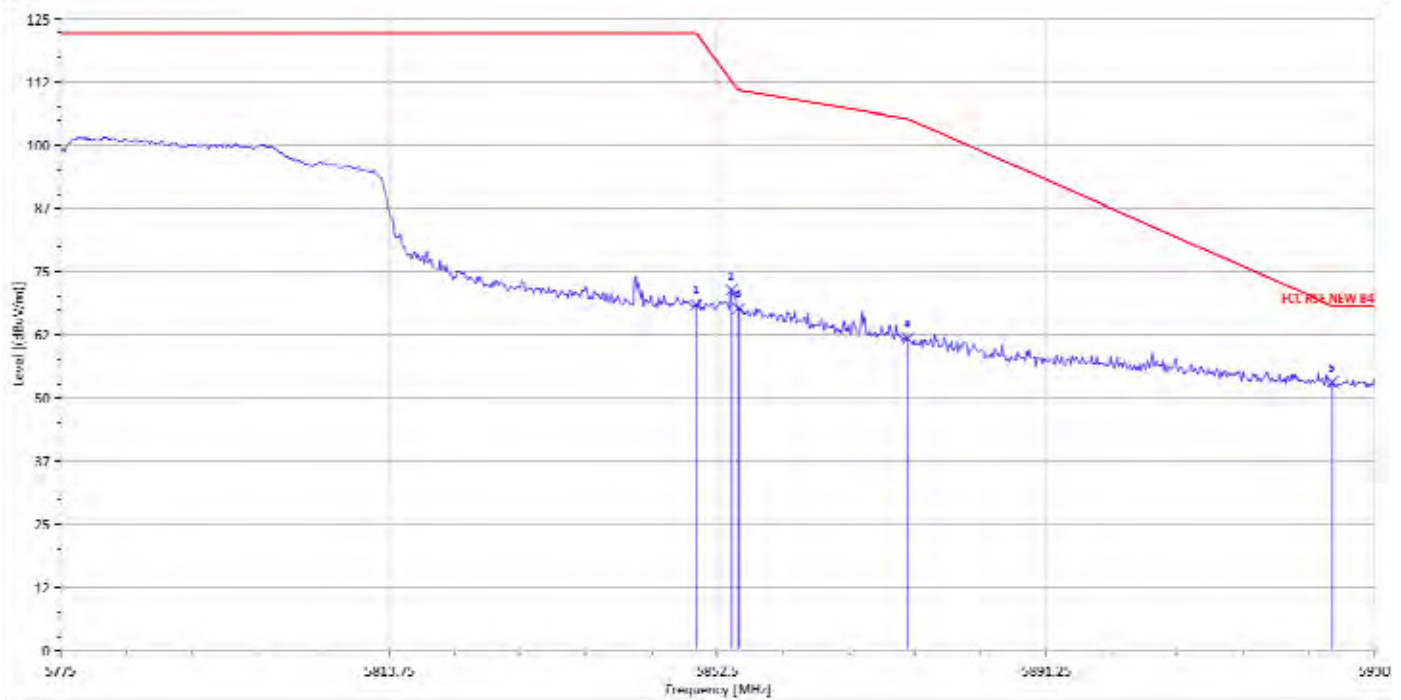
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 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	58.96	9.49	68.45	122.23	-53.78
5854.21	S	Peak	61.72	9.57	71.29	112.6424	-41.36
5855.00	S	Peak	58.17	9.58	67.75	110.83	-43.08
5875.00	S	Peak	52.11	9.63	61.74	105.23	-43.49
5925.00	S	Peak	43.01	10.01	53.02	68.23	-15.21

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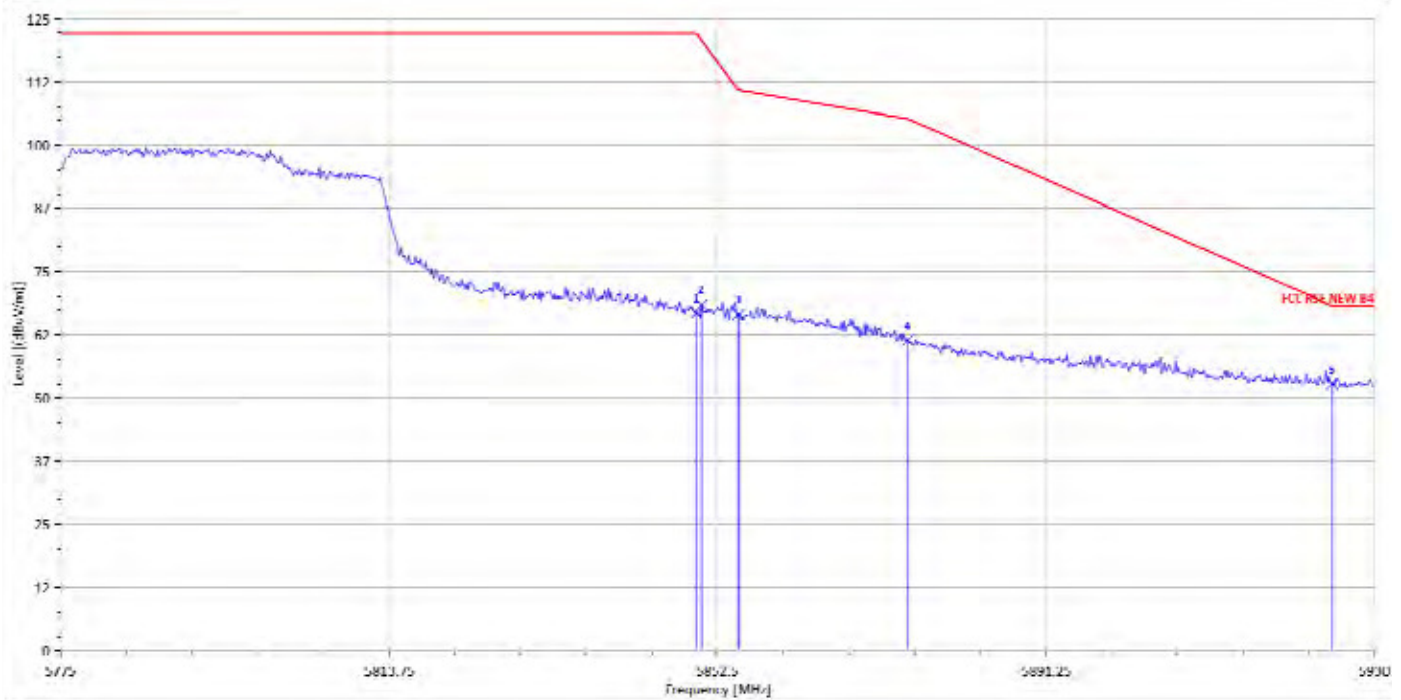
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 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	57.34	9.49	66.83	122.23	-55.40
5850.64	S	Peak	58.94	9.50	68.44	120.7705	-52.33
5855.00	S	Peak	57.01	9.58	66.59	110.83	-44.24
5875.00	S	Peak	51.78	9.63	61.41	105.23	-43.82
5925.00	S	Peak	42.72	10.01	52.73	68.23	-15.50

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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

No non-compliance noted:

Refer to the theory of operation.

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13. FREQUENCY STABILITY

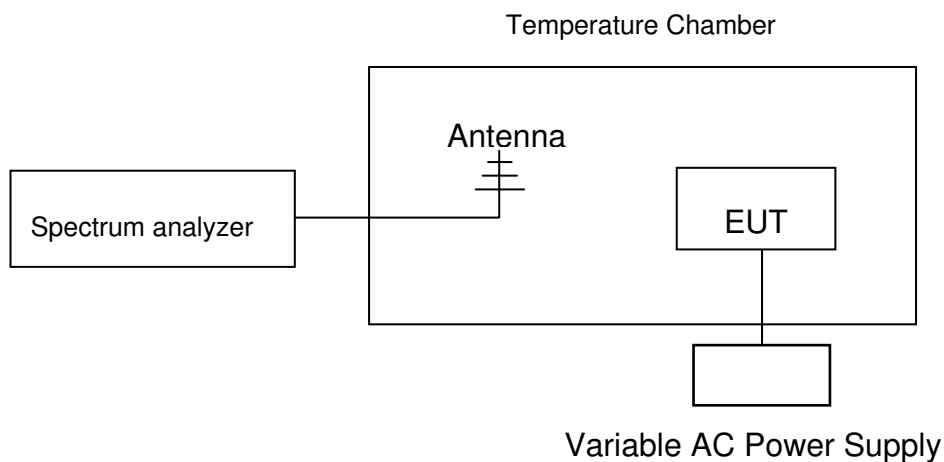
13.1 Standard Applicable

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

13.2 Measurement Procedure

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

13.3 Test SET-UP



13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/16/2016	06/15/2017

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13.5 Measurement Result

Test Date 2017.02.09
Test By Pony

13.11V	36	5180	5,180.03003	-0.00000580
	44	5220	5,220.01514	-0.00000290
	48	5240	5,240.01489	-0.00000284
	52	5260	5,260.01489	-0.00000283
	60	5300	5,300.01514	-0.00000286
	64	5320	5,320.01489	-0.00000280
	100	5500	5,500.01489	-0.00000271
	116	5580	5,580.00000	0.00000000
	140	5700	5,700.01514	-0.00000266
	149	5745	5,745.01514	-0.00000263
	157	5785	5,785.03003	-0.00000519
	165	5825	5,825.00000	0.00000000

0

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36	5180	5,180.01514	-0.00000292
44	5220	5,220.01514	-0.00000290
48	5240	5,240.01514	-0.00000289
52	5260	5,260.00000	0.00000000
60	5300	5,300.02979	-0.00000562

25

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Test Date 2017.02.09
Test By Pony

	38	5190	5,190.07495	-0.00001444
	46	5230	5,230.05005	-0.00000957
	54	5270	5,270.02490	-0.00000473
	62	5310	5,310.02515	-0.00000474
13.11V	102	5510	5,510.00000	0.00000000
	110	5550	5,550.02490	-0.00000449
	134	5670	5,670.02515	-0.00000443
	151	5755	5,755.05005	-0.00000870

0

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38	5190	5,190.02490	-0.00000480
46	5230	5,230.02515	-0.00000481
54	5270	5,270.05005	-0.00000950
62	5310	5,310.02515	-0.00000474

25

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Test Date 2017.02.09
Test By Pony

		42	5210	5,209.50000	0.00009597
		58	5290	5,289.94995	0.00000946
	13.11V	106	5530	5,529.85010	0.00002711
0		122	5610	5,609.85010	0.00002672

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14. ANTENNA REQUIREMENT

14.1 Standard Applicable

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

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

14.2 Antenna Connected Construction

PIFA antenna designs are used.

The antenna is designed with permanent attached and no consideration of replacement. Please see EUT photo and antenna spec. 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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