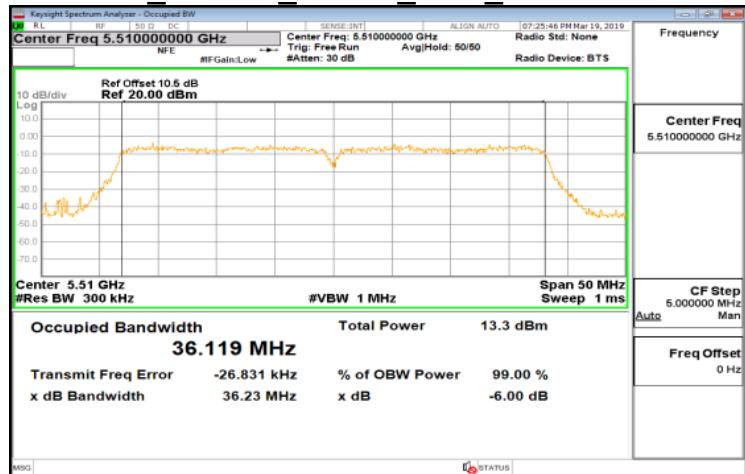
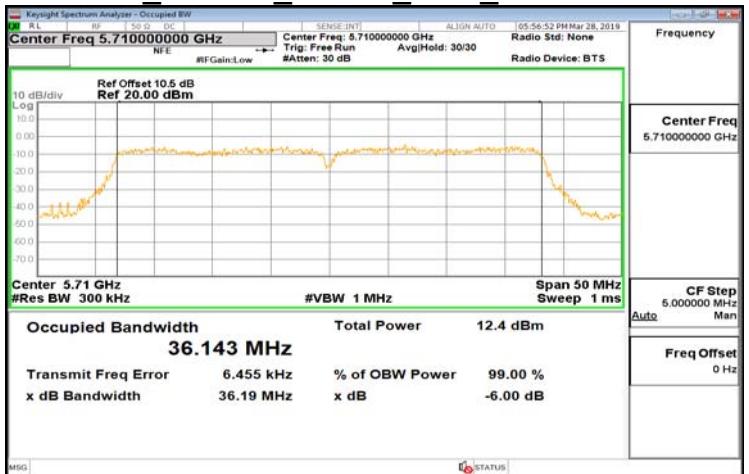




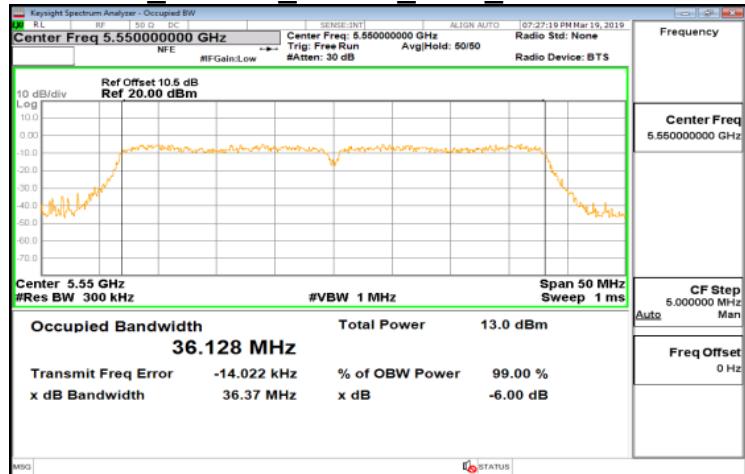
IC_802.11n_40MHz_Main_5510MHz



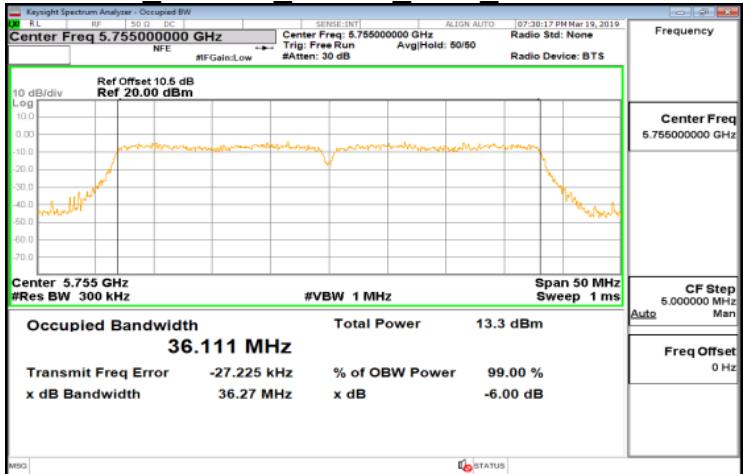
IC_802.11n_40MHz_Main_5710MHz



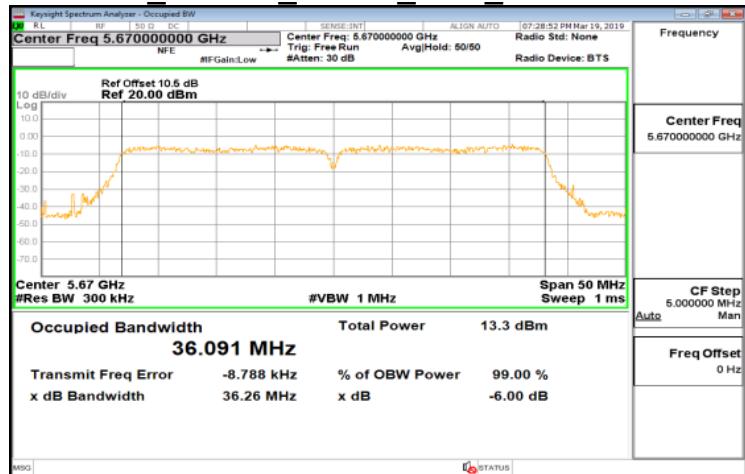
IC_802.11n_40MHz_Main_5550MHz



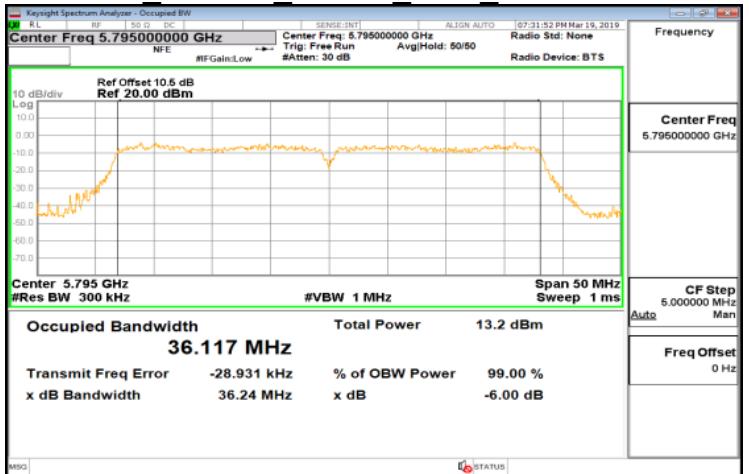
IC_802.11n_40MHz_Main_5755MHz



IC_802.11n_40MHz_Main_5670MHz



IC_802.11n_40MHz_Main_5795MHz

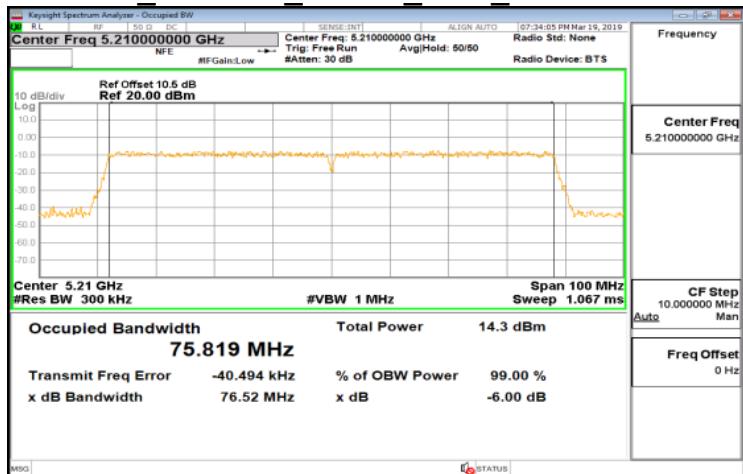


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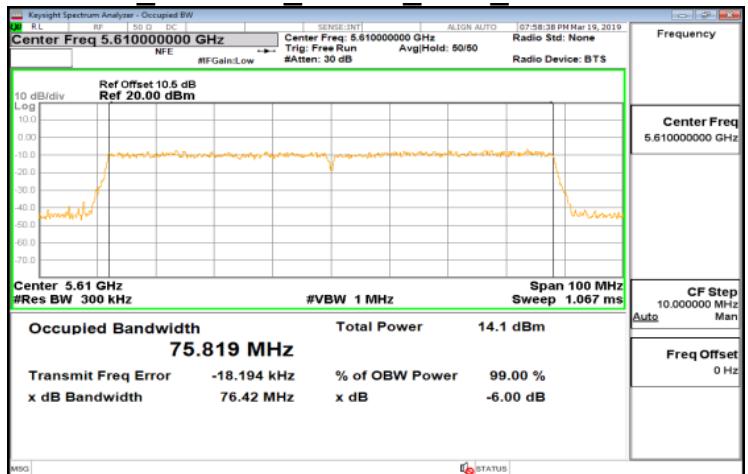
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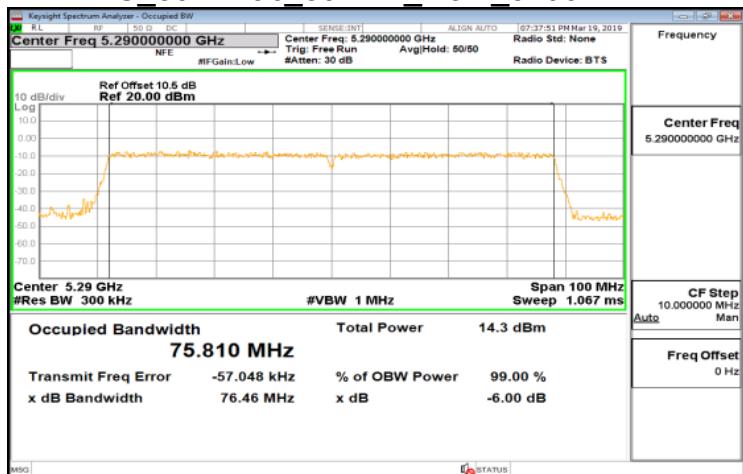
IC_802.11ac_80MHz_Main_5210MHz



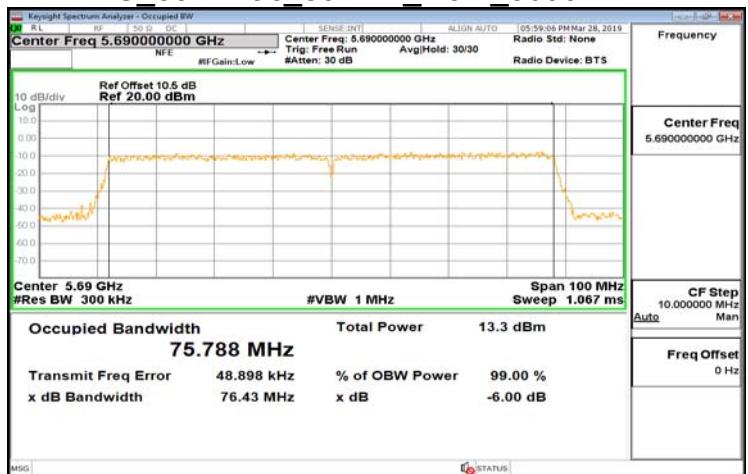
IC_802.11ac_80MHz_Main_5610MHz



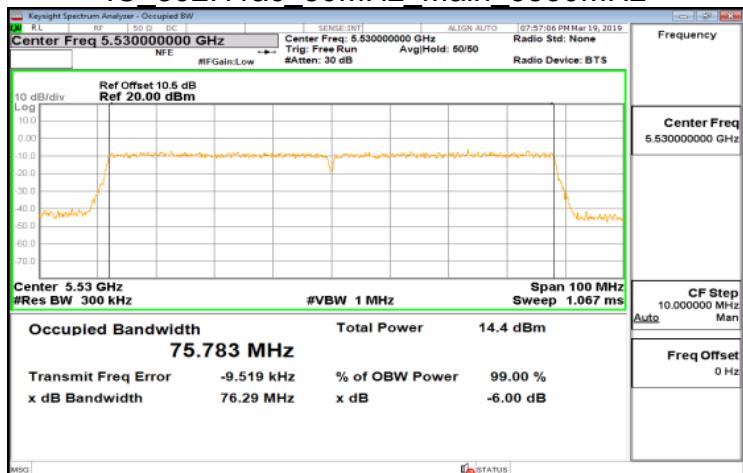
IC_802.11ac_80MHz_Main_5290MHz



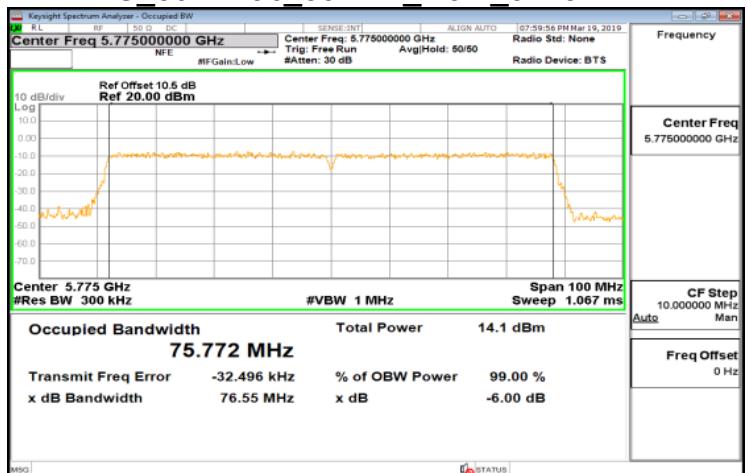
IC_802.11ac_80MHz_Main_5690MHz



IC_802.11ac_80MHz_Main_5530MHz



IC_802.11ac_80MHz_Main_5775MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

OPERATION Band	EUT CATEGORY	LIMIT
U-NII-1	Access Point (Master device)	1 Watt(30dBm)
	Fixed point-to-point Access Point	1 Watt(30dBm)
	Mobile and portable client device	250mW(23.98dBm)
U-NII-2A	✓	250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	✓	250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	✓	1 Watt(30dBm)

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

ISED

OPERATION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm
5250~5350 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm
5470~5600 MHz and 5650~5725 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm
5725~5850 MHz	Conducted output power shall not exceed 1 W

For equipment operating in the band **5725-5850** MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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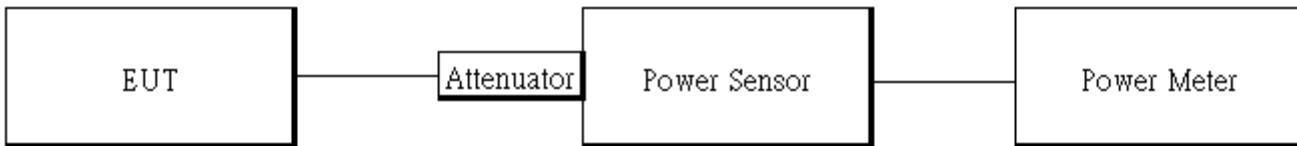
9.2 Measurement Procedure

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

9.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Power Meter	Anritsu	ML2496A	1242004	10/23/2018	10/22/2019
Power Sensor	Anritsu	MA2411B	1207365	10/23/2018	10/22/2019
Power Sensor	Anritsu	MA2411B	1207368	10/23/2018	10/22/2019
DC Power Supply	Agilent	E3640A	MY53130054	09/03/2018	09/02/2019
DC Power Supply	Agilent	E3640A	KR93300208	08/15/2018	08/14/2019
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020

9.4 Test Set-up



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9.5 Measurement Result

Conducted output power (FCC)

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	10.82	12.073	23.98	PASS
44	5220	6	10.93	12.382	23.98	PASS
48	5240	6	10.90	12.297	23.98	PASS
52	5260	6	10.86	12.184	23.98 or 11+10log(B) = 23.98	PASS
60	5300	6	10.90	12.297	23.98 or 11+10log(B) = 23.93	PASS
64	5320	6	10.88	12.241	23.98 or 11+10log(B) = 23.91	PASS
100	5500	6	11.03	12.671	23.98 or 11+10log(B) = 23.92	PASS
116	5580	6	10.96	12.468	23.98 or 11+10log(B) = 23.95	PASS
140	5700	6	10.77	11.934	23.98 or 11+10log(B) = 23.89	PASS
144	5720(U-NII 2C)	6	8.27279	6.719	23.98 or 11+10log(B) = 22.68	PASS
144	5720 (U-NII 3)	6	2.585247	1.814	30	PASS
149	5745	6	10.61	11.503	30	PASS
157	5785	6	10.78	11.962	30	PASS
165	5825	6	10.93	12.382	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	10.97	12.510	23.98	PASS
44	5220	MCS0	11.08	12.830	23.98	PASS
48	5240	MCS0	11.04	12.713	23.98	PASS
52	5260	MCS0	10.98	12.538	23.98 or 11+10log(B) = 24.01	PASS
60	5300	MCS0	11.06	12.772	23.98 or 11+10log(B) = 23.98	PASS
64	5320	MCS0	10.97	12.510	23.98 or 11+10log(B) = 23.97	PASS
100	5500	MCS0	11.13	12.979	23.98 or 11+10log(B) = 23.91	PASS
116	5580	MCS0	11.12	12.949	23.98 or 11+10log(B) = 24.02	PASS
140	5700	MCS0	10.88	12.253	23.98 or 11+10log(B) = 24.01	PASS
144	5720(U-NII 2C)	MCS0	8.28	6.735	23.98 or 11+10log(B) = 22.74	PASS
144	5720 (U-NII 3)	MCS0	2.71	1.866	30	PASS
149	5745	MCS0	10.73	11.837	30	PASS
157	5785	MCS0	10.92	12.366	30	PASS
165	5825	MCS0	11.06	12.772	30	PASS

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802.11n HT40 Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	8.09	6.435	23.98	PASS
46	5230	MCS0	8.02	6.332	23.98	PASS
54	5270	MCS0	8.19	6.585	23.98 or $11+10\log(B) = 27.16$	PASS
62	5310	MCS0	8.39	6.895	23.98 or $11+10\log(B) = 27.09$	PASS
102	5510	MCS0	8.27	6.707	23.98 or $11+10\log(B) = 27.09$	PASS
110	5550	MCS0	8.02	6.332	23.98 or $11+10\log(B) = 27.03$	PASS
134	5670	MCS0	7.83	6.061	23.98 or $11+10\log(B) = 27.15$	PASS
142	5710(U-NII 2C)	MCS0	6.95	4.958	23.98 or $11+10\log(B) = 26.51$	PASS
142	5710 (U-NII 3)	MCS0	0.96	1.248	30	PASS
151	5755	MCS0	7.84	6.075	30	PASS
159	5795	MCS0	8.00	6.303	30	PASS

802.11ac VHT80 Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	8.55	7.154	23.98	PASS
58	5290	MCS0	8.74	7.474	23.98 or $11+10\log(B) = 30.16$	PASS
106	5530	MCS0	8.77	7.526	23.98 or $11+10\log(B) = 30.08$	PASS
122	5610	MCS0	8.59	7.220	23.98 or $11+10\log(B) = 30.11$	PASS
138	5690(U-NII 2C)	MCS0	7.74	5.941	23.98 or $11+10\log(B) = 29.81$	PASS
138	5690 (U-NII 3)	MCS0	0.56	1.137	30	PASS
155	5775	MCS0	8.37	6.863	30	PASS

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Conducted output power (IC)

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
52	5260	10.86	12.184	23.98	or $11+10\log(B) = 23.24$	PASS
60	5300	10.90	12.297	23.98	or $11+10\log(B) = 23.24$	PASS
64	5320	10.88	12.241	23.98	or $11+10\log(B) = 23.24$	PASS
100	5500	11.03	12.671	23.98	or $11+10\log(B) = 23.23$	PASS
116	5580	10.96	12.468	23.98	or $11+10\log(B) = 23.24$	PASS
140	5700	10.77	11.934	23.98	or $11+10\log(B) = 23.23$	PASS
144	5720(U-NII 2C)	8.27	6.719	23.98	or $11+11\log(B) = 22.25$	PASS
144	5720 (U-NII 3)	2.59	1.814	30		PASS
149	5745	10.61	11.503	30		PASS
157	5785	10.78	11.962	30		PASS
165	5825	10.93	12.382	30		PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
52	5260	10.98	12.538	23.98	or $11+10\log(B) = 23.49$	PASS
60	5300	11.06	12.772	23.98	or $11+10\log(B) = 23.48$	PASS
64	5320	10.97	12.510	23.98	or $11+10\log(B) = 23.48$	PASS
100	5500	11.13	12.979	23.98	or $11+10\log(B) = 23.23$	PASS
116	5580	11.12	12.949	23.98	or $11+10\log(B) = 23.49$	PASS
140	5700	10.88	12.253	23.98	or $11+10\log(B) = 23.49$	PASS
144	5720(U-NII 2C)	8.28	6.735	23.98	or $11+11\log(B) = 22.42$	PASS
144	5720 (U-NII 3)	2.71	1.866	30		PASS
149	5745	10.73	11.837	30		PASS
157	5785	10.92	12.366	30		PASS
165	5825	11.06	12.772	30		PASS

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802.11n HT40 Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	8.19	6.585	23.98 or $11+10\log(B) = 26.58$	PASS
62	5310	8.39	6.895	23.98 or $11+10\log(B) = 26.58$	PASS
102	5510	8.27	6.707	23.98 or $11+10\log(B) = 26.58$	PASS
110	5550	8.02	6.332	23.98 or $11+10\log(B) = 26.58$	PASS
134	5670	7.83	6.061	23.98 or $11+10\log(B) = 26.57$	PASS
142	5710(U-NII 2C)	6.95	4.958	23.98 or $11+11\log(B) = 26.19$	PASS
142	5710 (U-NII 3)	0.96	1.248	30	PASS
151	5755	7.84	6.075	30	PASS
159	5795	8.00	6.303	30	PASS

802.11ac VHT80 Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	8.74	7.474	23.98 or $11+10\log(B) = 29.80$	PASS
106	5530	8.77	7.526	23.98 or $11+10\log(B) = 29.80$	PASS
122	5610	8.59	7.220	23.98 or $11+11\log(B) = 29.80$	PASS
138	5690(U-NII 2C)	7.74	5.941	23.98 or $11+12\log(B) = 29.63$	PASS
138	5690 (U-NII 3)	0.56	1.137	30	PASS
155	5775	8.37	6.863	30	PASS

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EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT	
36	5180	10.82	5.200	16.02	39.976	23.01	or 10+10log(B)=	22.23	PASS
44	5220	10.93	5.200	16.13	41.002	23.01	or 10+10log(B)=	22.23	PASS
48	5240	10.90	5.200	16.10	40.720	23.01	or 10+10log(B)=	22.23	PASS
52	5260	10.86	5.200	16.06	40.346	30	or 17+10log(B)=	29.24	PASS
60	5300	10.90	5.200	16.10	40.720	30	or 17+10log(B)=	29.24	PASS
64	5320	10.88	5.200	16.08	40.533	30	or 17+10log(B)=	29.24	PASS
100	5500	11.03	5.200	16.23	41.957	30	or 17+10log(B)=	29.23	PASS
116	5580	10.96	5.200	16.16	41.286	30	or 17+10log(B)=	29.24	PASS
140	5700	10.77	5.200	15.97	39.519	30	or 17+10log(B)=	29.23	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT	
36	5180	10.97	5.200	16.17	41.423	23.01	or 10+10log(B)=	22.48	PASS
44	5220	11.08	5.200	16.28	42.486	23.01	or 10+10log(B)=	22.48	PASS
48	5240	11.04	5.200	16.24	42.096	23.01	or 10+10log(B)=	22.48	PASS
52	5260	10.98	5.200	16.18	41.519	30	or 17+10log(B)=	29.49	PASS
60	5300	11.06	5.200	16.26	42.291	30	or 17+10log(B)=	29.48	PASS
64	5320	10.97	5.200	16.17	41.423	30	or 17+10log(B)=	29.48	PASS
100	5500	11.13	5.200	16.33	42.978	30	or 17+10log(B)=	29.23	PASS
116	5580	11.12	5.200	16.32	42.879	30	or 17+10log(B)=	29.49	PASS
140	5700	10.88	5.200	16.08	40.574	30	or 17+10log(B)=	29.49	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT	
38	5190	8.09	5.200	13.29	21.308	23.01	or 10+10log(B)=	25.58	PASS
46	5230	8.02	5.200	13.22	20.968	23.01	or 10+10log(B)=	25.57	PASS
54	5270	8.19	5.200	13.39	21.805	30	or 17+10log(B)=	32.58	PASS
62	5310	8.39	5.200	13.59	22.832	30	or 17+10log(B)=	32.58	PASS
102	5510	8.27	5.200	13.47	22.210	30	or 17+10log(B)=	32.58	PASS
110	5550	8.02	5.200	13.22	20.968	30	or 17+10log(B)=	32.58	PASS
134	5670	7.83	5.200	13.03	20.070	30	or 17+10log(B)=	32.57	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT	
42	5210	8.55	5.200	13.75	23.689	23.01	or 10+10log(B)=	28.80	PASS
58	5290	8.74	5.200	13.94	24.748	30	or 17+10log(B)=	35.80	PASS
106	5530	8.77	5.200	13.97	24.920	30	or 17+10log(B)=	35.80	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

OPERATION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device)	17dBm/ MHz
		Fixed point-to-point Access Ponit	
	✓	Mobile and portable client device	11dBm/ MHz
U-NII-2A	✓		11dBm/ MHz
U-NII-2C	✓		11dBm/ MHz
U-NII-3	✓		30dBm/ 500kHz

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

ISED

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

For equipment operating in the band **5725-5850 MHz**, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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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:

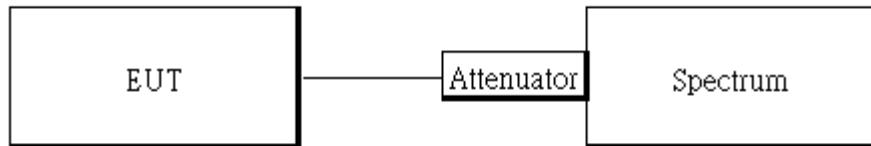
Set RBW=500 kHz, VBW \geq 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

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.

10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
DC Power Supply	Agilent	E3640A	MY53130054	09/03/2018	09/02/2019
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/09/2018	04/08/2019
DC Power Supply	Agilent	E3640A	KR93300208	08/15/2018	08/14/2019
Thermostatic/Hrgrosatic Chamber	TAICHY	MHG-150LF	930619	10/08/2018	10/07/2019
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020

10.4 Test Set-up



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10.5 Measurement Result

POWER DENSITY 802.11a MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	0.29	0.05	0.34	11	-10.66
5220	0.85	0.05	0.90	11	-10.10
5240	1.21	0.05	1.26	11	-9.74
5260	0.62	0.05	0.67	11	-10.33
5300	0.56	0.05	0.61	11	-10.39
5320	-0.31	0.05	-0.26	11	-11.26
5500	-2.24	0.05	-2.19	11	-13.19
5580	-0.49	0.05	-0.44	11	-11.44
5700	-0.34	0.05	-0.29	11	-11.29
5720 (U-NII 2C)	-2.67	0.05	-2.62	11	-13.62
5720 (U-NII 3)	-3.04	0.05	-2.99	30	-32.99
5745	5.94	-	5.94	30	-24.06
5785	5.25	-	5.25	30	-24.75
5825	5.26	-	5.26	30	-24.74

POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	0.04	0.05	0.09	11	-10.91
5220	0.57	0.05	0.62	11	-10.38
5240	0.34	0.05	0.39	11	-10.61
5260	0.60	0.05	0.65	11	-10.35
5300	0.46	0.05	0.51	11	-10.49
5320	-0.04	0.05	0.01	11	-10.99
5500	-0.85	0.05	-0.80	11	-11.80
5580	-1.00	0.05	-0.95	11	-11.95
5700	0.46	0.05	0.51	11	-10.49
5720 (U-NII 2C)	-2.95	0.05	-2.90	11	-13.90
5720 (U-NII 3)	-1.79	0.05	-1.74	30	-31.74
5745	6.15	-	6.15	30	-23.85
5785	4.83	-	4.83	30	-25.17
5825	5.32	-	5.32	30	-24.68

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POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-8.04	0.11	-7.93	11	-18.93
5230	-7.92	0.11	-7.81	11	-18.81
5270	-7.99	0.11	-7.88	11	-18.88
5310	-8.09	0.11	-7.98	11	-18.98
5510	-7.39	0.11	-7.28	11	-18.28
5550	-8.03	0.11	-7.92	11	-18.92
5670	-8.02	0.11	-7.91	11	-18.91
5710 (U-NII 2C)	-8.83	0.11	-8.72	11	-19.72
5710 (U-NII 3)	-9.11	0.11	-9.00	30	-39.00
5755	-2.95	-	-2.95	30	-32.95
5795	-2.68	-	-2.68	30	-32.68

POWER DENSITY 802.11ac VHT80 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-10.35	0.20	-10.15	11	-21.15
5290	-11.07	0.20	-10.87	11	-21.87
5530	-11.08	0.20	-10.88	11	-21.88
5610	-11.37	0.20	-11.17	11	-22.17
5690 (U-NII 2C)	-11.57	0.20	-11.37	11	-22.37
5690 (U-NII 3)	-12.42	0.20	-12.23	30	-42.23
5775	-5.29	-	-5.29	30	-35.29

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EIRP spectral density 802.11a MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	0.34	5.20	5.54	10	-4.46
5220	0.90	5.20	6.10	10	-3.90
5240	1.26	5.20	6.46	10	-3.54

EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	0.09	5.20	5.29	10	-4.71
5220	0.62	5.20	5.82	10	-4.18
5240	0.39	5.20	5.59	10	-4.41

EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-7.93	5.20	-2.73	10	-12.73
5220	-7.81	5.20	-2.61	10	-12.61

EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-10.15	5.20	-4.95	10	-14.95

Note:

Cable Loss=

10.5 dB

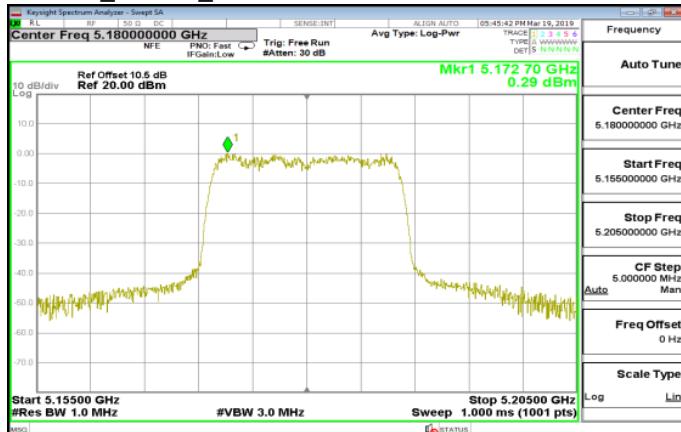
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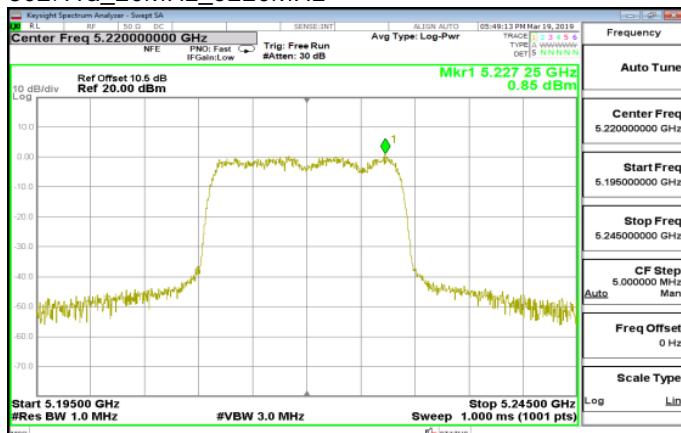
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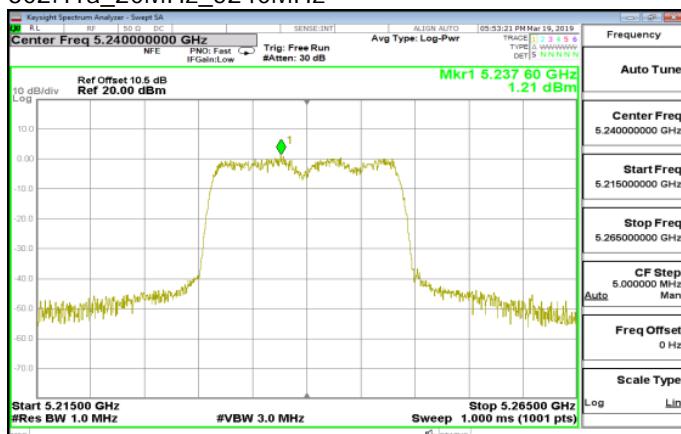
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802.11a_20MHz_5220MHz



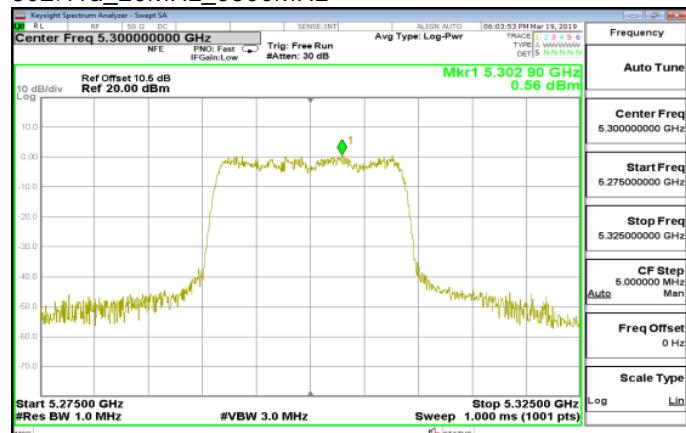
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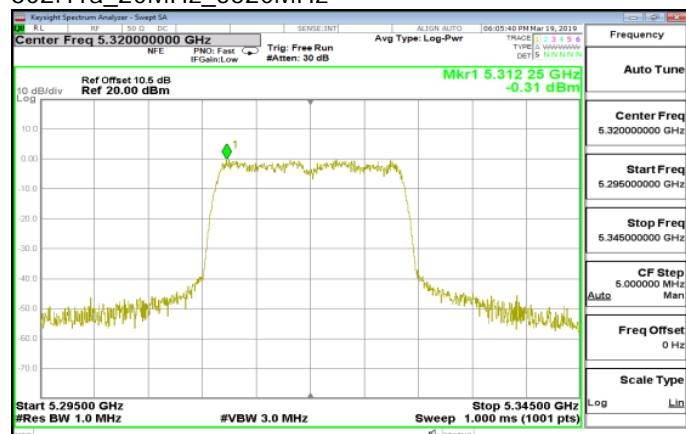
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802.11a_20MHz_5300MHz



802.11a_20MHz_5320MHz



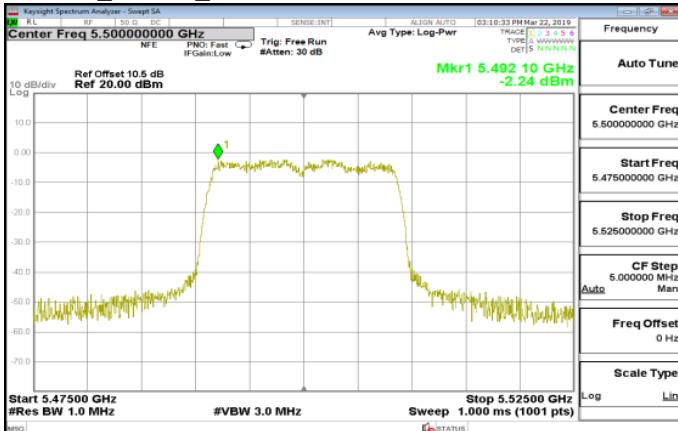
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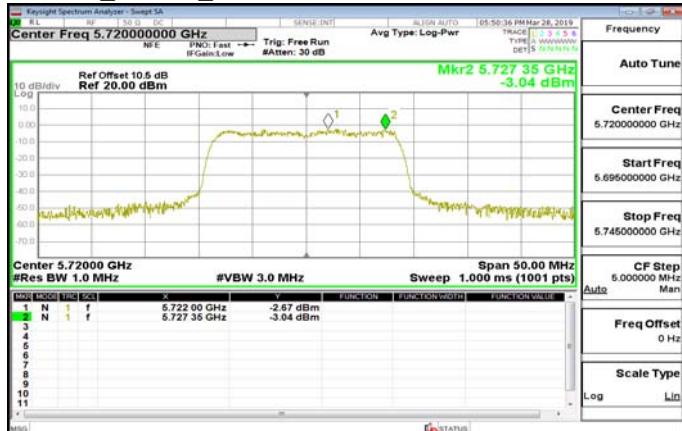
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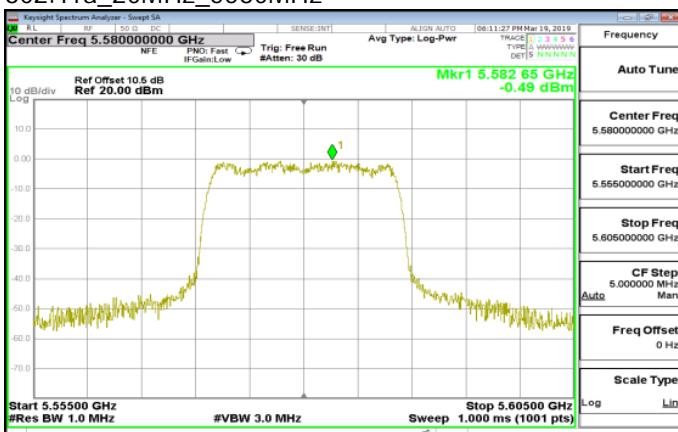
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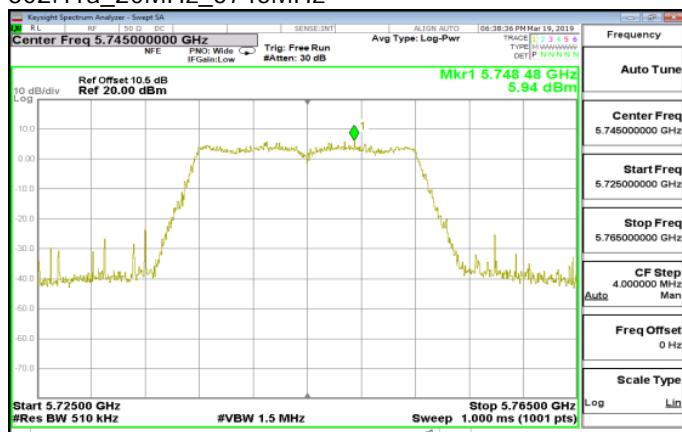
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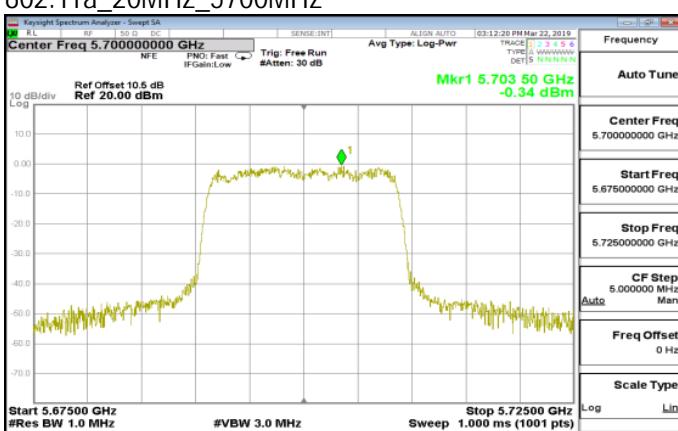
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802.11a_20MHz_5745MHz



802.11a_20MHz_5700MHz



802.11a_20MHz_5785MHz

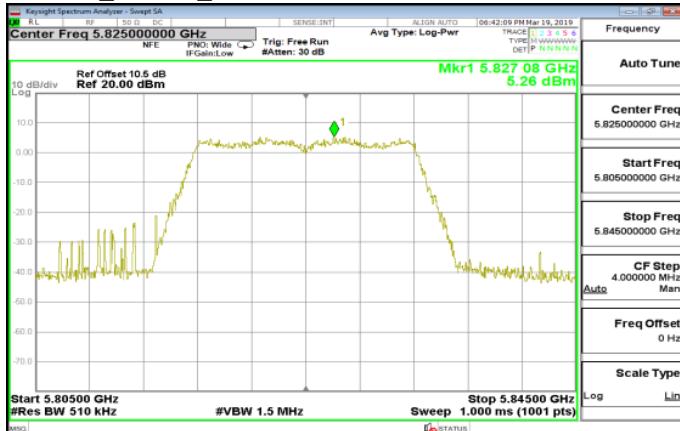


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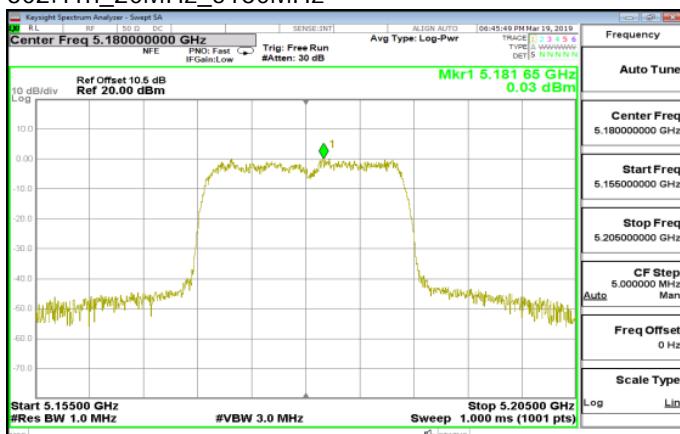
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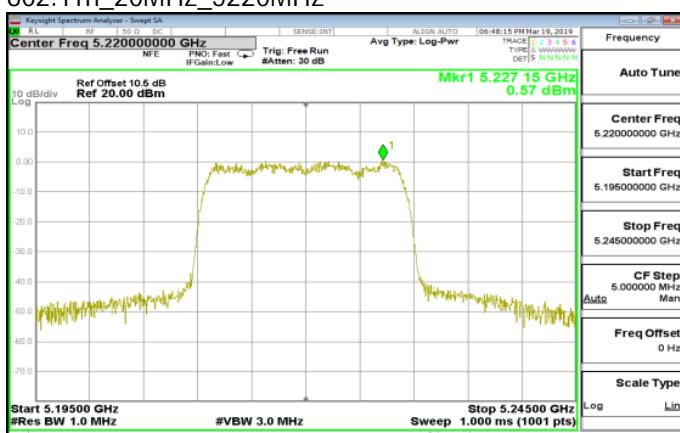
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802.11n 20MHz 5180MHz



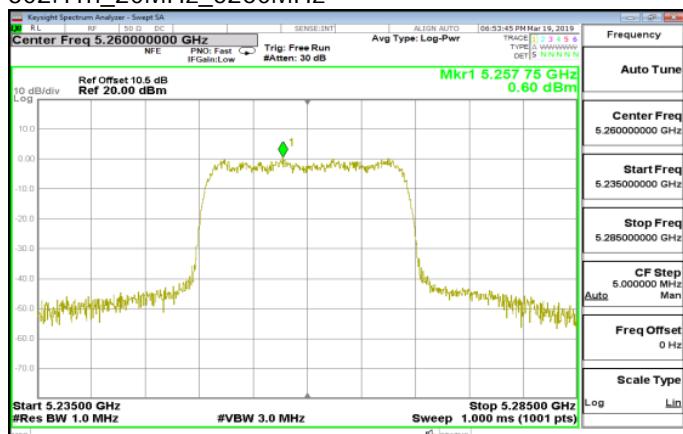
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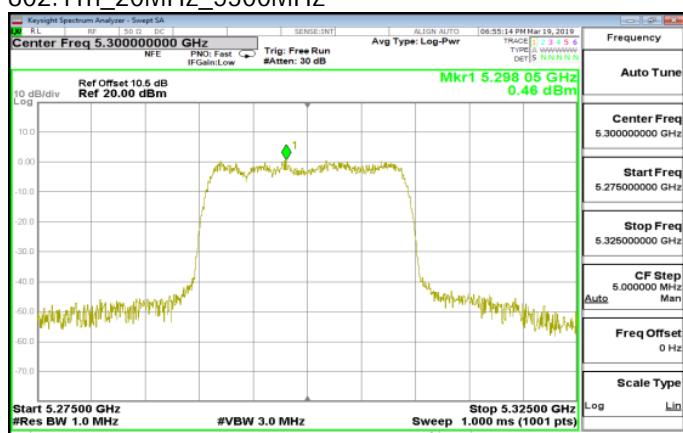
802.11n_20MHz_5240MHz



802.11n 20MHz 5260MHz



802.11n 20MHz 5300MHz



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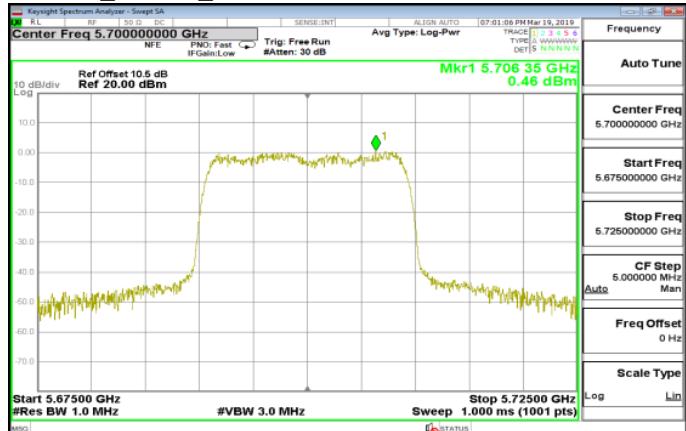


802.11n_20MHz_5320MHz

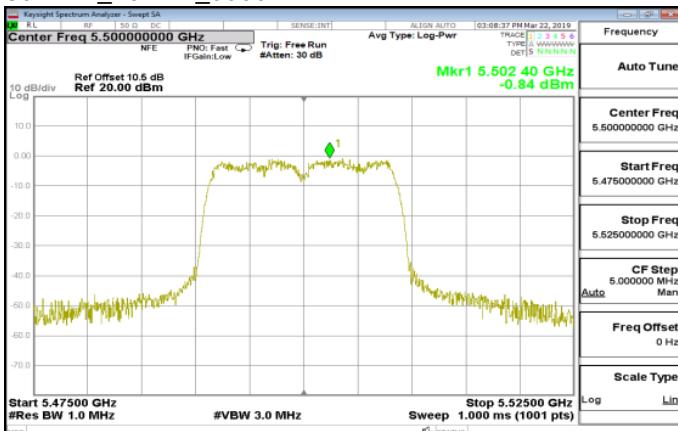


802.11n_20MHz_5700MHz

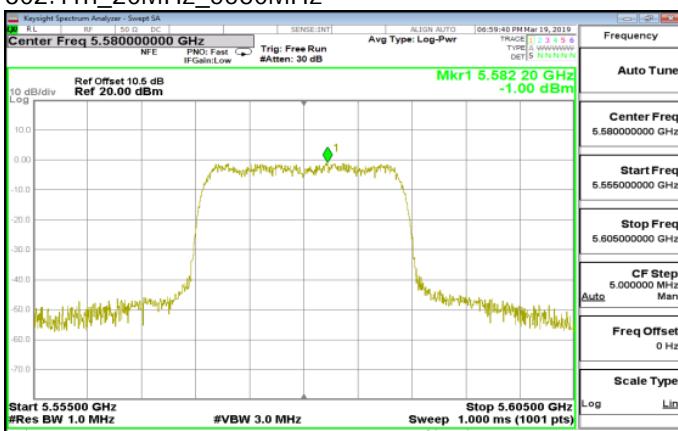
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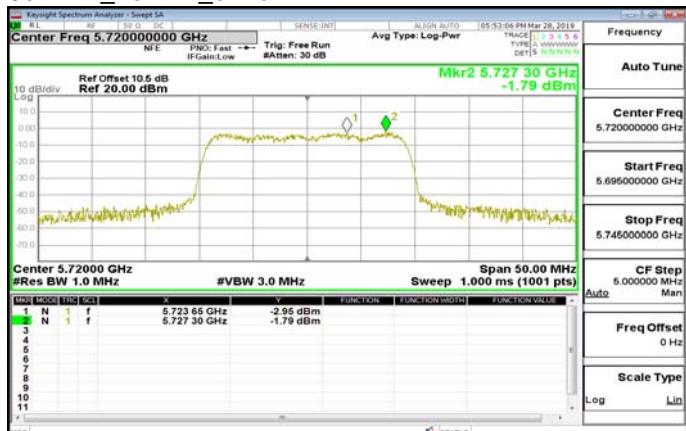
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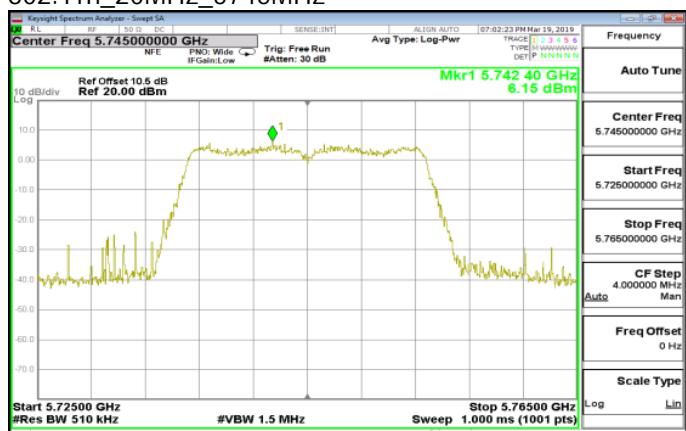
802.11n_20MHz_5580MHz



802.11n_20MHz_5720MHz



802.11n_20MHz_5745MHz



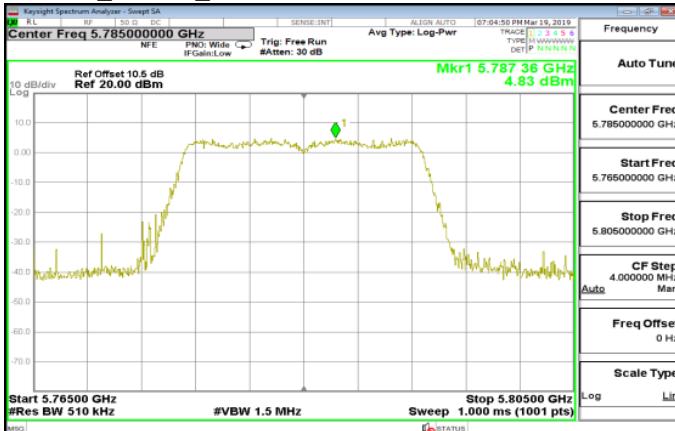
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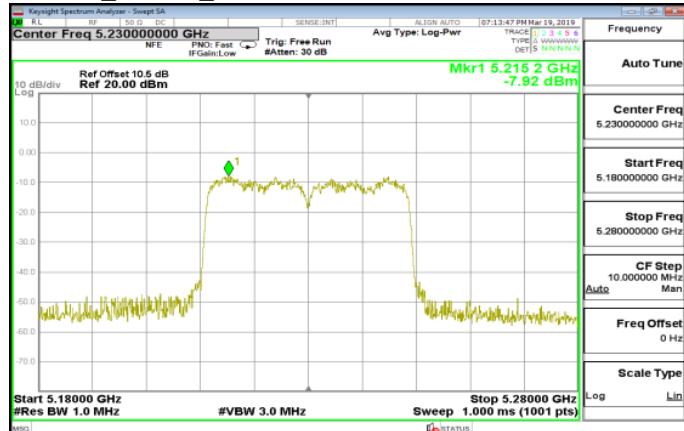
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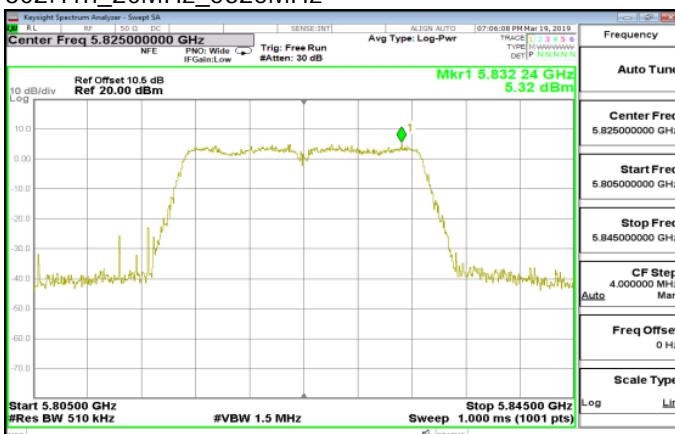
802.11n_20MHz_5785MHz



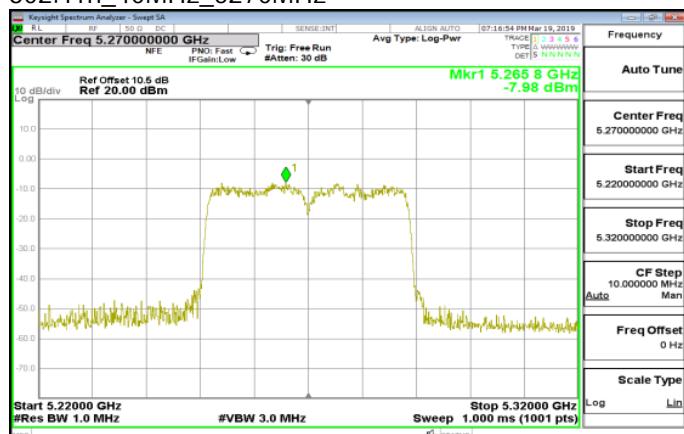
802.11n_40MHz_5230MHz



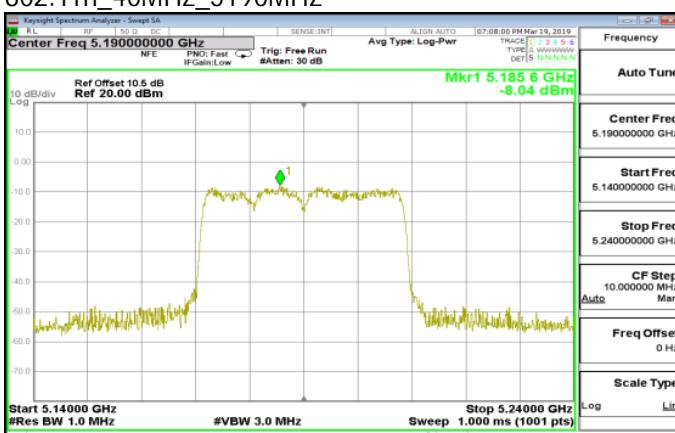
802.11n_20MHz_5825MHz



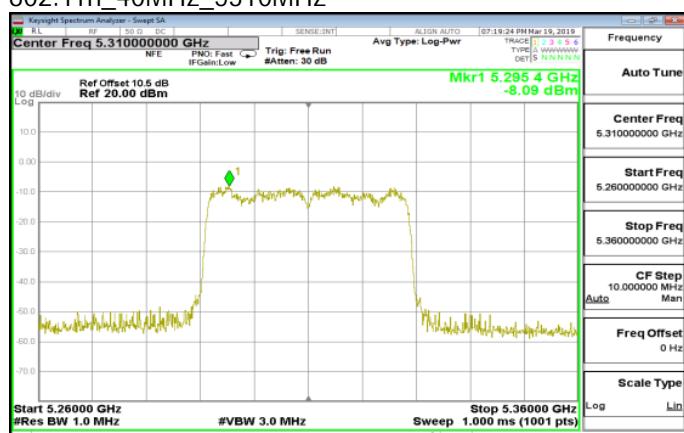
802.11n_40MHz_5270MHz



802.11n_40MHz_5190MHz



802.11n_40MHz_5310MHz



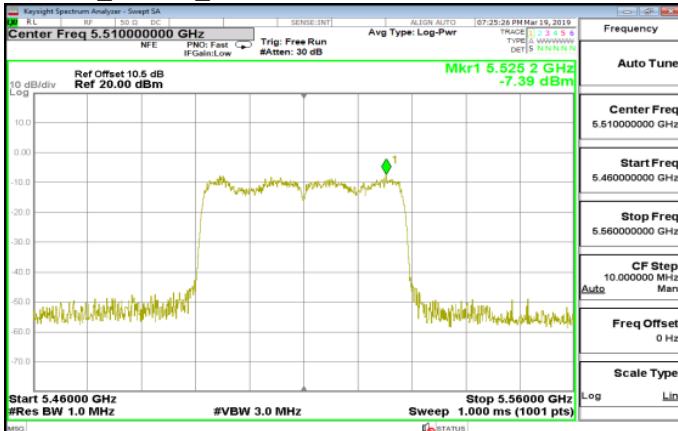
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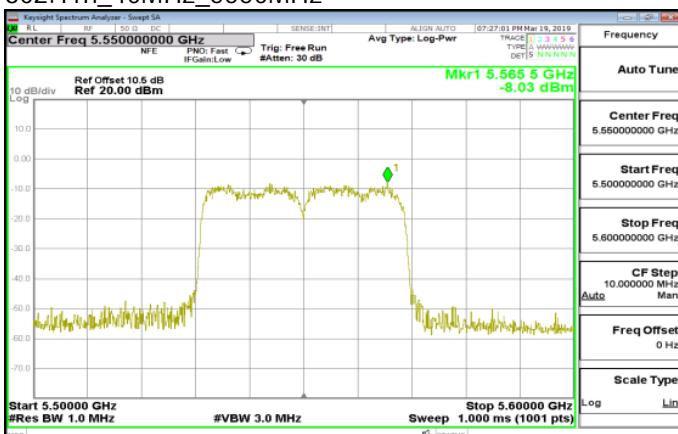
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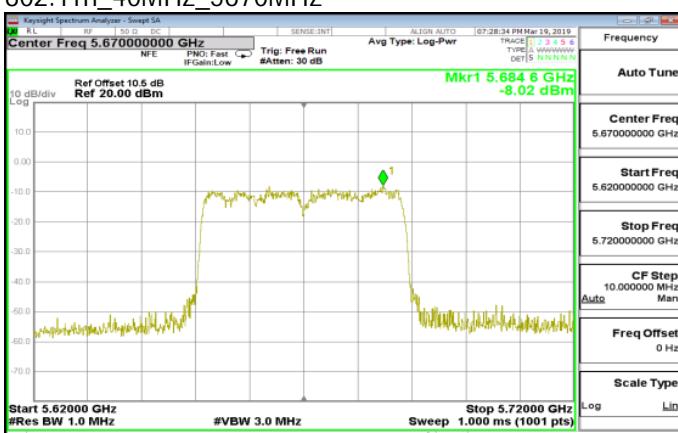
802.11n_40MHz_5510MHz



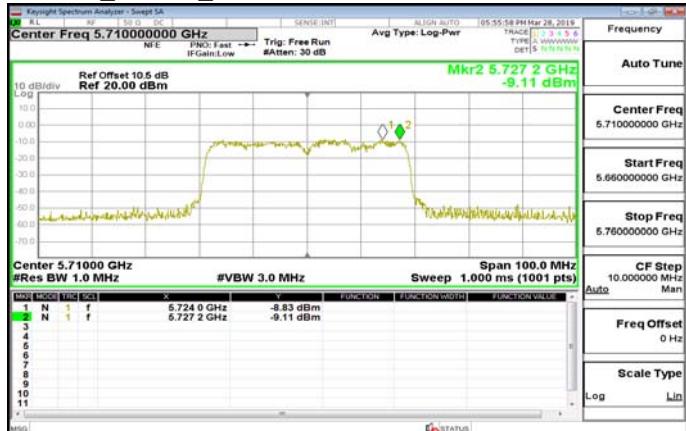
802.11n_40MHz_5550MHz



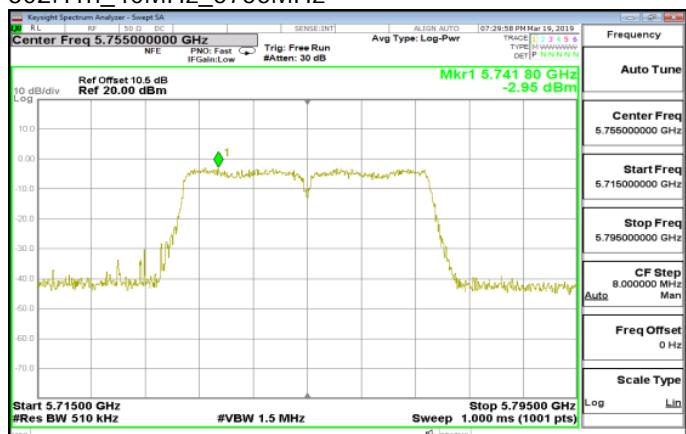
802.11n_40MHz_5670MHz



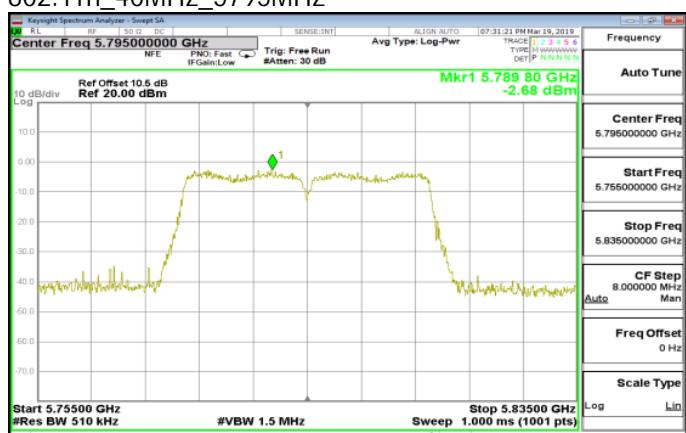
802.11n_40MHz_5710MHz



802.11n_40MHz_5755MHz



802.11n_40MHz_5795MHz



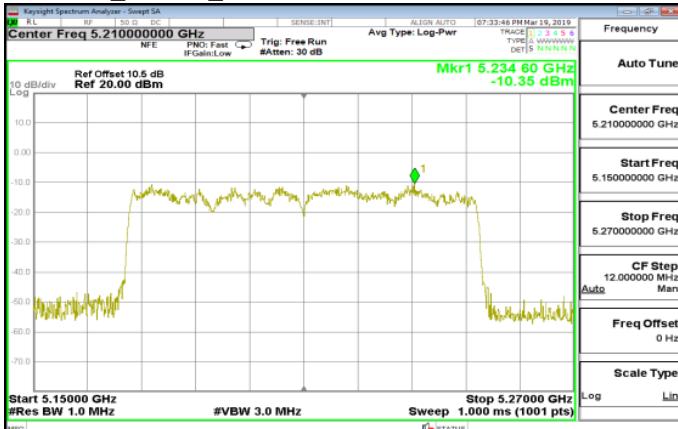
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802.11ac_80MHz_5210MHz



802.11ac_80MHz_5610MHz



802.11ac_80MHz_5290MHz



802.11ac_80MHz_5690MHz



802.11ac_80MHz_5530MHz



802.11ac_80MHz_5775MHz



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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 (dB μ V/m)	AV 54 (dB μ V/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) RSS-247 6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.3 (dB μ V/m)
15.407(b)(2) RSS-247 6.2.2.2		
15.407(b)(3) RSS-247 6.2.3.2		
15.407(b)(4)(i) RSS-247 6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dB μ V/m) *1 PK:105.2 (dB μ V/m) *2 PK: 110.8(dB μ V/m) *3 PK:122.2 (dB μ V/m) *4

*1 beyond 75 MHz or more above of the bandedge.

*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

$EIRP = ((E^2 \cdot d) / 30)$, 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

966A Chamber					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019
Cable	HUBER SU-HNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020
Cable	HUBER SU-HNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019
High Pass Filter	WI	WHKX7.0/18G-8SS	45	02/26/2019	02/25/2020
Horn Antenna	ETS LINDGREN	3116	00026370	12/26/2018	12/25/2019
Loop Antenna	ETS.LINDGREN	6502	148045	10/08/2018	10/07/2019
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	MITEQ	AMF-6F-260400-40-8P	985646	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/31/2018	05/30/2019
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 V6.11-20180413				

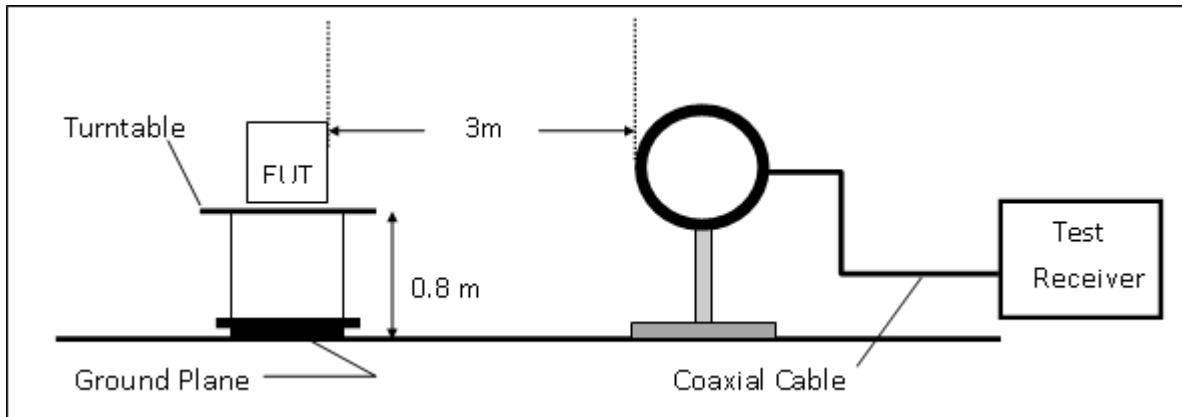
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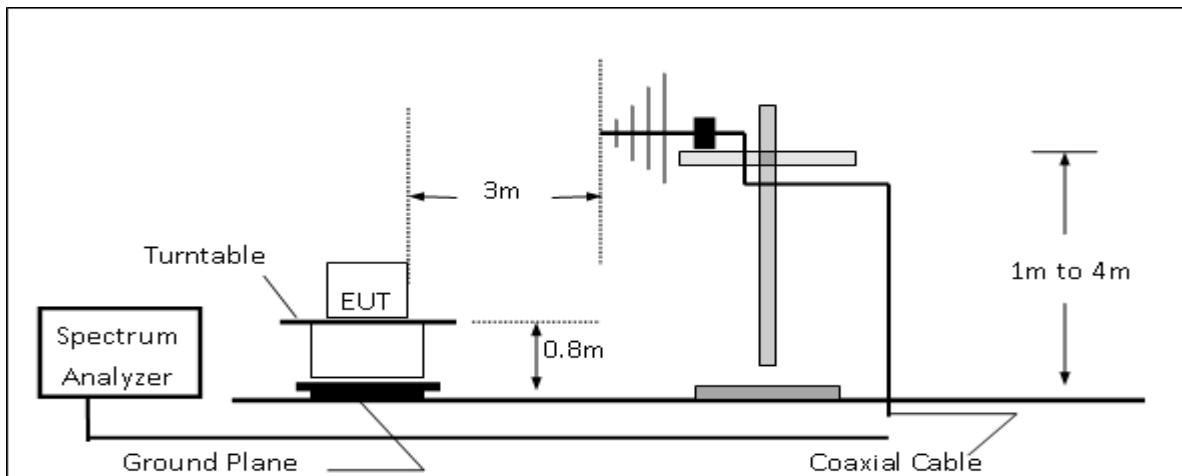
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11.3 Test SET-UP

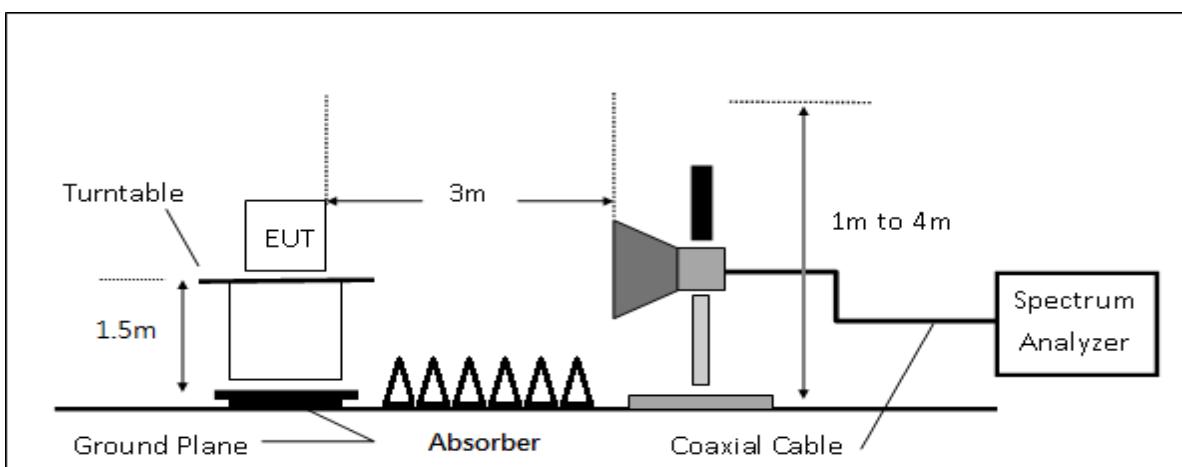
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency from 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 \geq 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:

$$FS = RA + AF - AG$$

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

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

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

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

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

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

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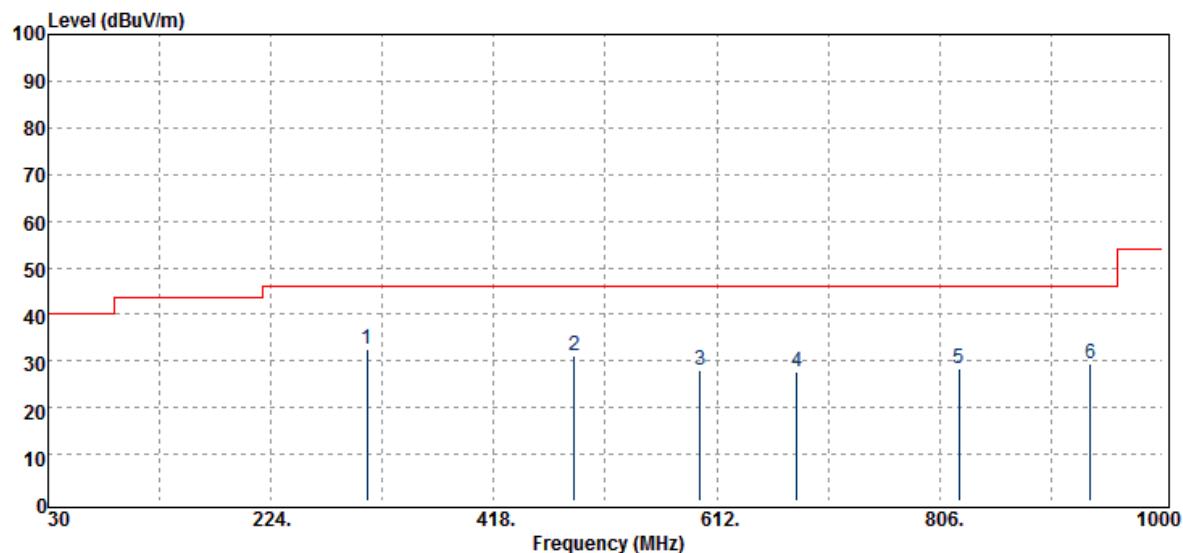
11.7 Measurement Result

Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Band	:802.11aB1	Test Date	:2019-03-27
Fundamental Frequency	:5220 MHz	Temp./Humi.	:24.1 deg_C / 65 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
307.42	Peak	35.91	-3.55	32.36	46.00	-13.64
487.84	Peak	31.66	-0.66	31.00	46.00	-15.00
597.45	Peak	27.83	0.10	27.93	46.00	-18.07
681.84	Peak	25.44	2.17	27.61	46.00	-18.39
822.49	Peak	24.11	4.39	28.50	46.00	-17.50
936.95	Peak	24.14	5.42	29.56	46.00	-16.44

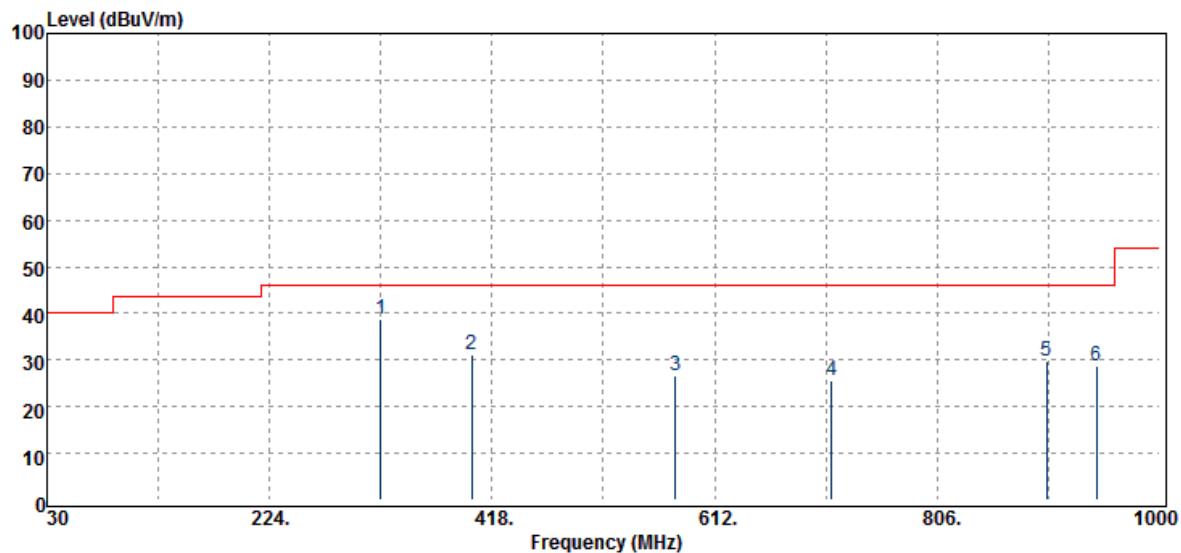
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Operation Band :802.11aB1
 Fundamental Frequency :5220 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plan

Test Date :2019-03-27
 Temp./Humi. :24.1 deg_C / 65 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
321.00	Peak	42.02	-3.20	38.82	46.00	-7.18
400.54	Peak	33.30	-2.21	31.09	46.00	-14.91
578.05	Peak	26.79	-0.01	26.78	46.00	-19.22
713.85	Peak	23.33	2.34	25.67	46.00	-20.33
901.06	Peak	24.58	5.21	29.79	46.00	-16.21
944.71	Peak	22.81	5.87	28.68	46.00	-17.32

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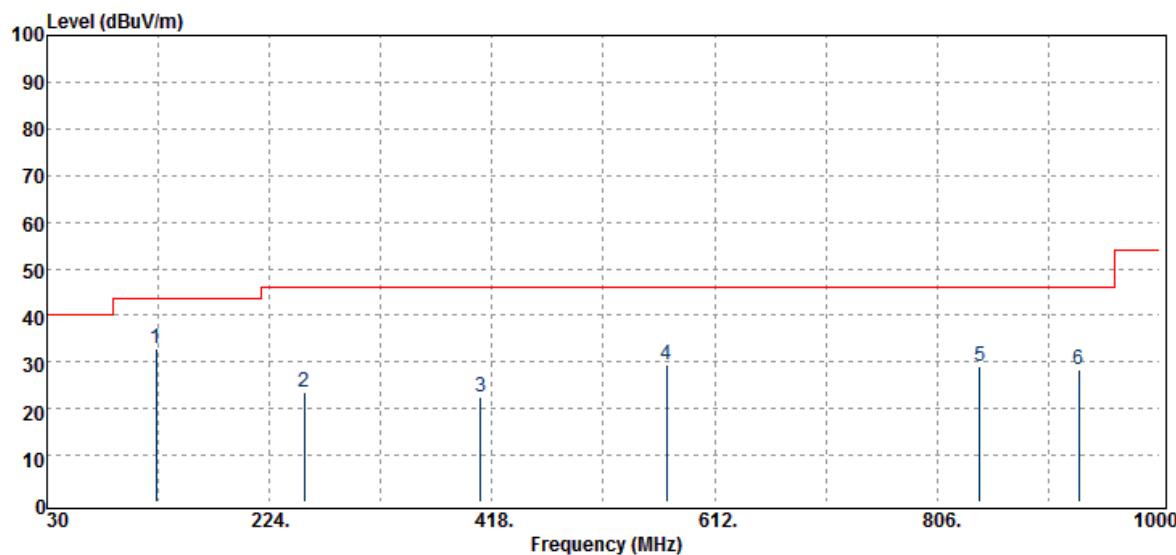
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802.11a 5250~5350 MHz

Operation Band :802.11aB2
 Fundamental Frequency :5300 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plan

Test Date :2019-03-27
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
125.06	Peak	41.21	-8.29	32.92	43.50	-10.58
254.07	Peak	33.13	-9.68	23.45	46.00	-22.55
408.30	Peak	26.89	-4.53	22.36	46.00	-23.64
570.29	Peak	30.74	-1.34	29.40	46.00	-16.60
842.86	Peak	24.42	4.55	28.97	46.00	-17.03
929.19	Peak	23.24	4.97	28.21	46.00	-17.79

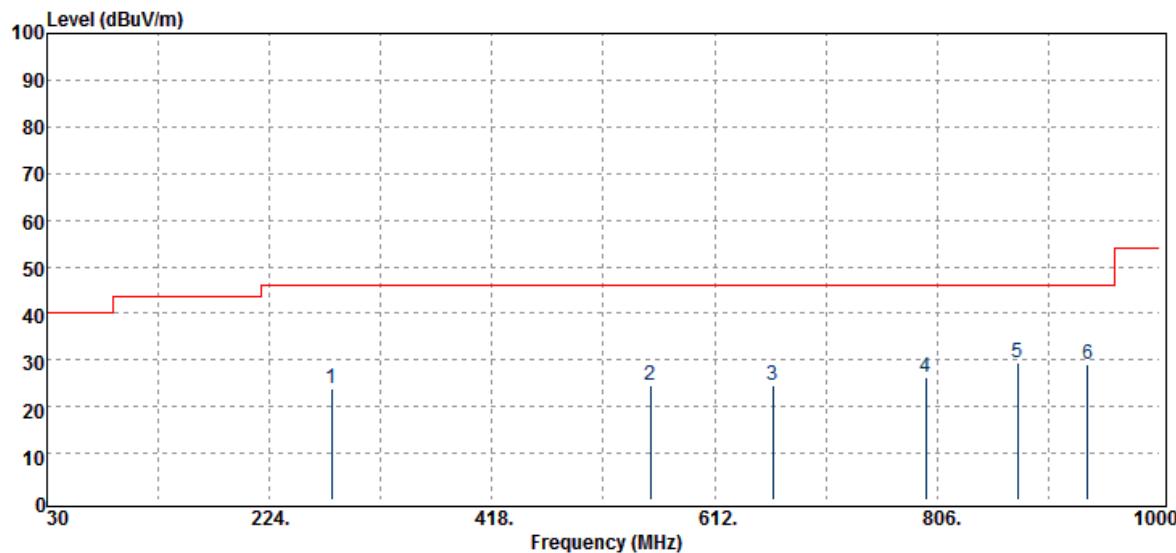
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Operation Band :802.11aB2
 Fundamental Frequency :5300 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plan

Test Date :2019-03-27
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
278.32	Peak	31.61	-7.68	23.93	46.00	-22.07
555.74	Peak	25.94	-1.49	24.45	46.00	-21.55
662.44	Peak	23.80	0.78	24.58	46.00	-21.42
796.30	Peak	23.48	2.68	26.16	46.00	-19.84
875.84	Peak	25.21	4.07	29.28	46.00	-16.72
936.95	Peak	23.99	5.06	29.05	46.00	-16.95

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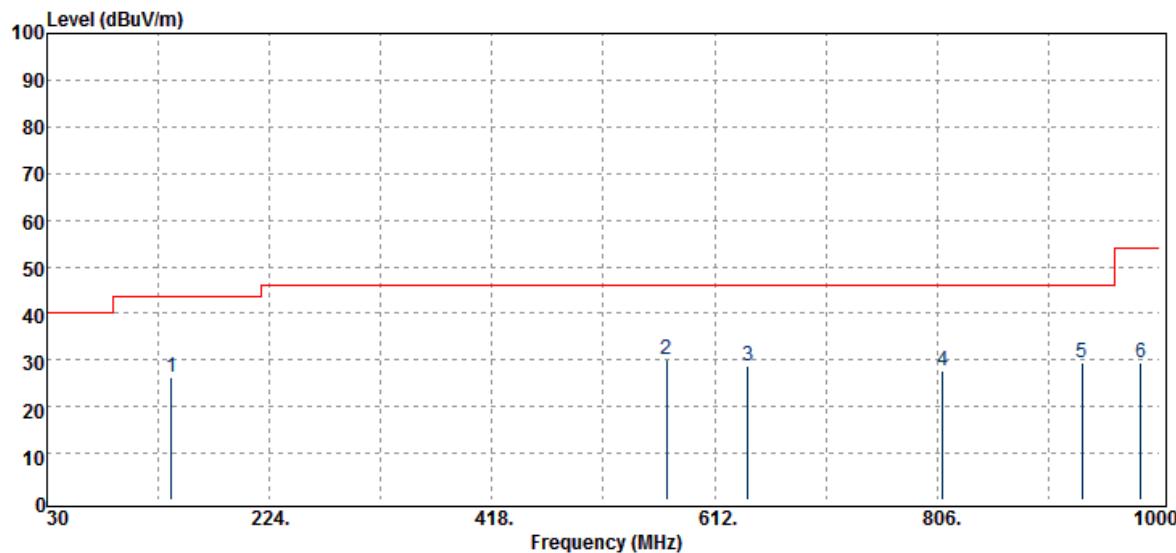
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802.11a, 5470~5725 MHz

Operation Band :802.11aB3
 Fundamental Frequency :5580 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plan

Test Date :2019-03-27
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
138.64	Peak	35.43	-9.02	26.41	43.50	-17.09
570.29	Peak	31.41	-1.34	30.07	46.00	-15.93
641.10	Peak	27.85	0.84	28.69	46.00	-17.31
810.85	Peak	24.13	3.38	27.51	46.00	-18.49
932.10	Peak	24.41	5.01	29.42	46.00	-16.58
983.51	Peak	22.85	6.49	29.34	54.00	-24.66

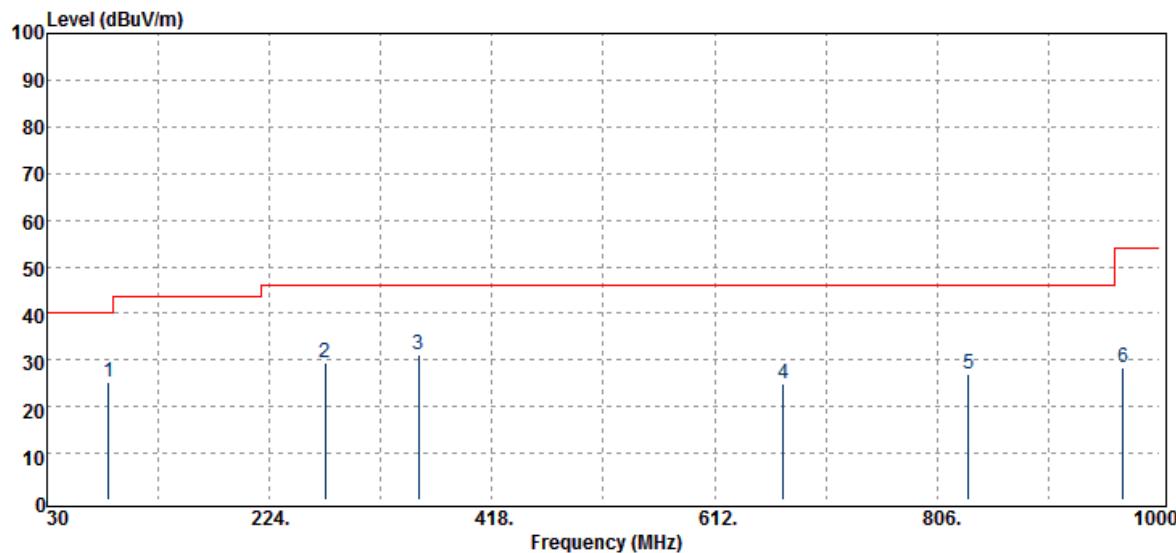
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Operation Band :802.11aB3
 Fundamental Frequency :5580 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plan

Test Date :2019-03-27
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
83.35	Peak	40.28	-15.00	25.28	40.00	-14.72
272.50	Peak	37.20	-7.78	29.42	46.00	-16.58
353.98	Peak	36.98	-5.99	30.99	46.00	-15.01
672.14	Peak	23.99	1.09	25.08	46.00	-20.92
833.16	Peak	22.38	4.45	26.83	46.00	-19.17
967.99	Peak	21.93	6.46	28.39	54.00	-25.61

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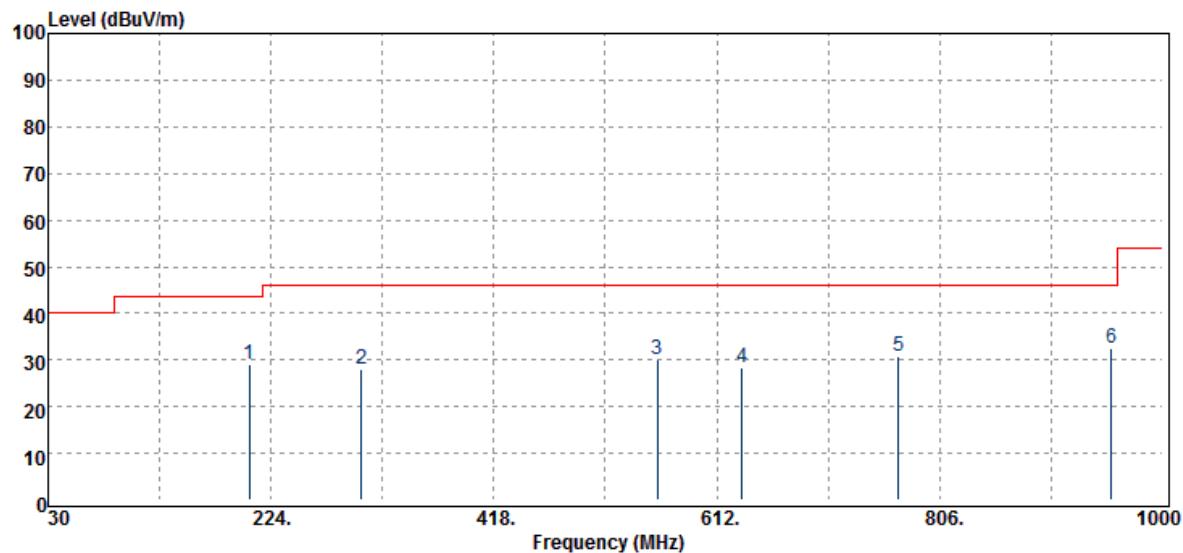
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802.11a, 5725~5850 MHz

Operation Band :802.11aB4
 Fundamental Frequency :5785 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plan

Test Date :2019-03-27
 Temp./Humi. :24.1 deg_C / 65 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
205.38	Peak	34.32	-5.40	28.92	43.50	-14.58
302.55	Peak	32.37	-4.29	28.08	46.00	-17.92
560.55	Peak	30.69	-0.60	30.09	46.00	-15.91
633.79	Peak	27.92	0.37	28.29	46.00	-17.71
769.96	Peak	28.72	2.10	30.82	46.00	-15.18
955.35	Peak	27.68	4.96	32.64	46.00	-13.36

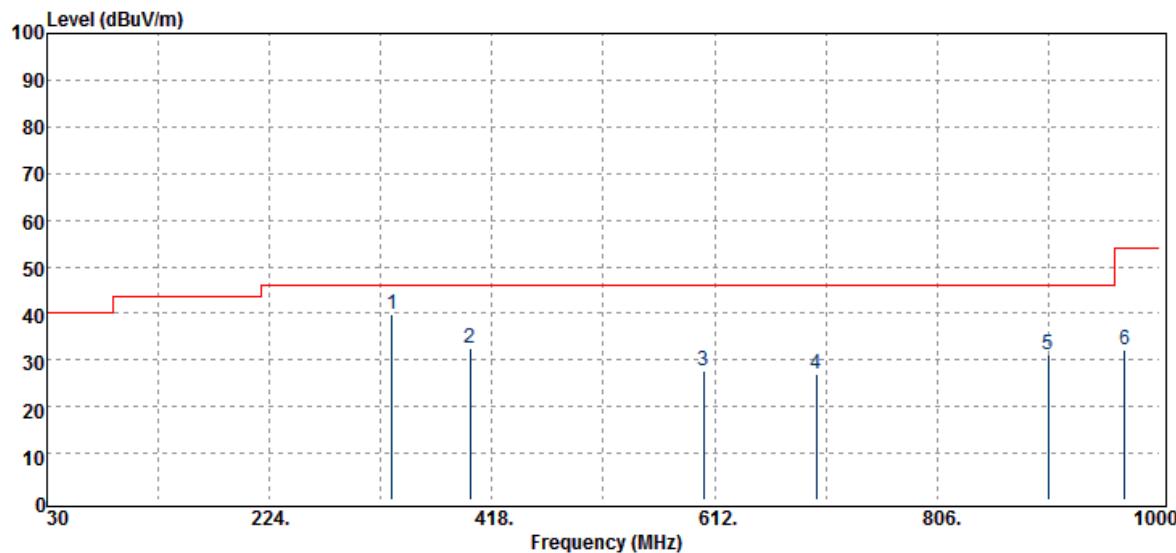
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Operation Band :802.11aB4
 Fundamental Frequency :5785 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plan

Test Date :2019-03-27
 Temp./Humi. :24.1 deg_C / 65 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
330.73	Peak	43.54	-3.80	39.74	46.00	-6.26
398.72	Peak	35.83	-3.23	32.60	46.00	-13.40
602.71	Peak	28.22	-0.47	27.75	46.00	-18.25
700.65	Peak	25.77	1.24	27.01	46.00	-18.99
902.69	Peak	26.58	4.46	31.04	46.00	-14.96
969.71	Peak	25.82	6.25	32.07	54.00	-21.93

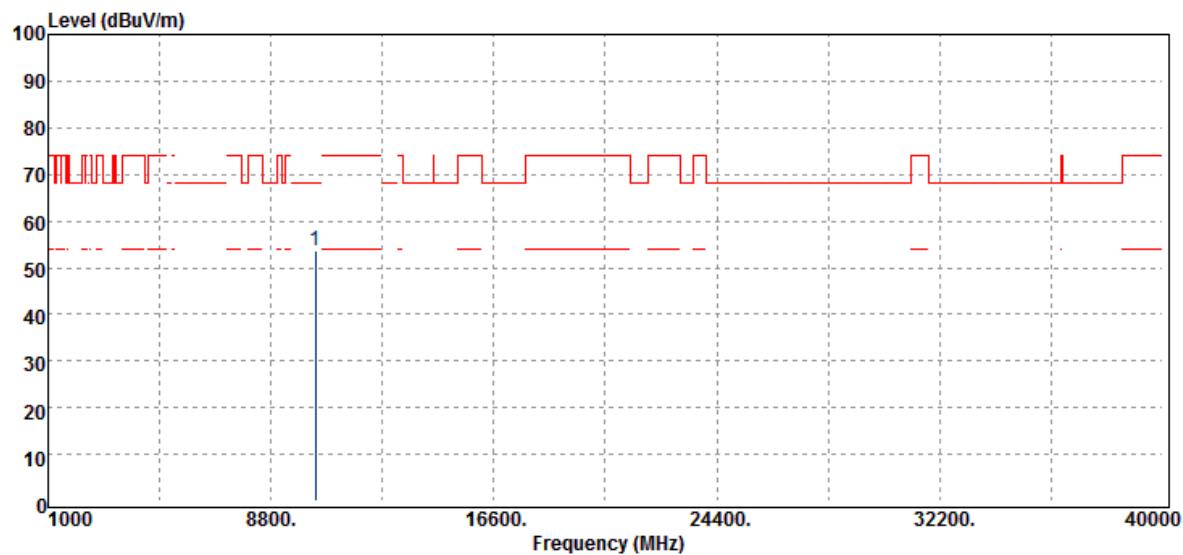
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Above 1GHz Worst-Case Data:**Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz**

Operation Band	:802.11aB1	Test Date	:2019-03-21
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	39.11	14.41	53.52	68.20	-14.68

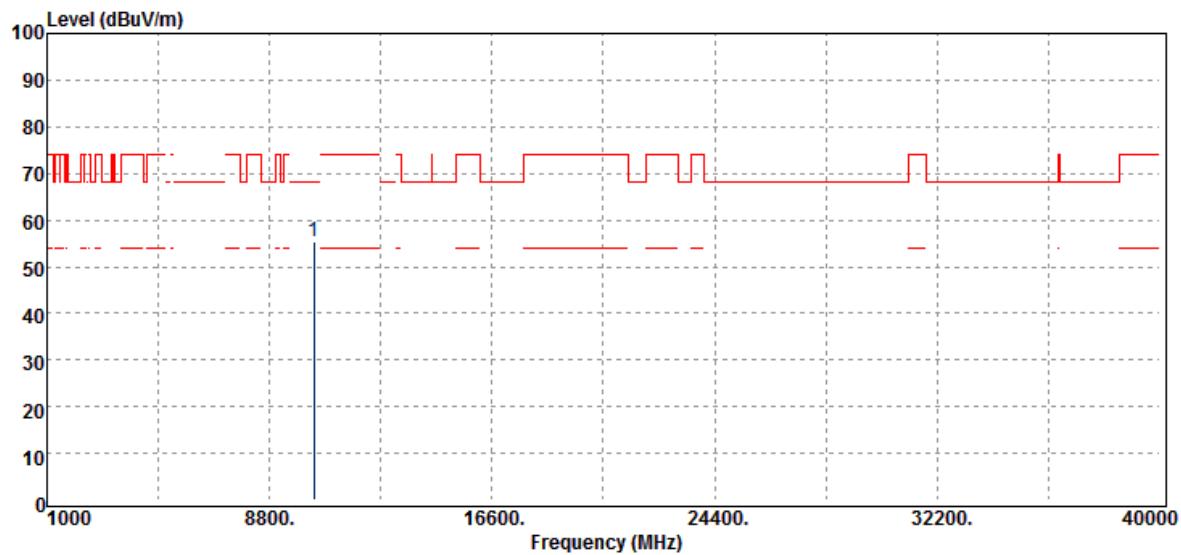
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Operation Band :802.11aB1
 Fundamental Frequency :5180 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
10360.00	Peak	40.87	14.41	55.28	68.20	-12.92

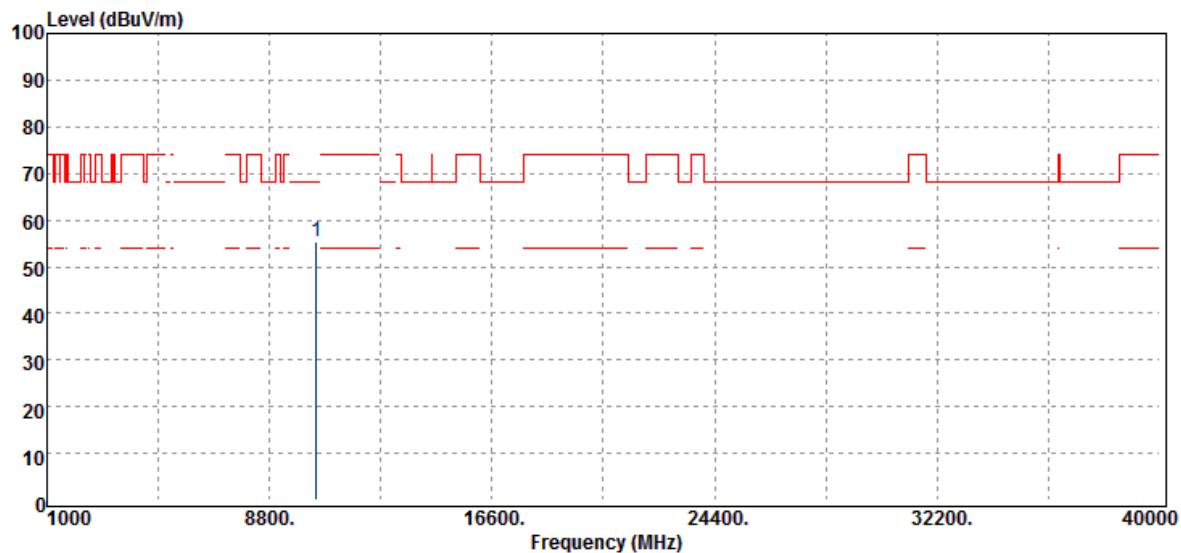
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Operation Band :802.11aB1
 Fundamental Frequency :5220 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
10440.00	Peak	39.73	15.58	55.31	68.20	-12.89

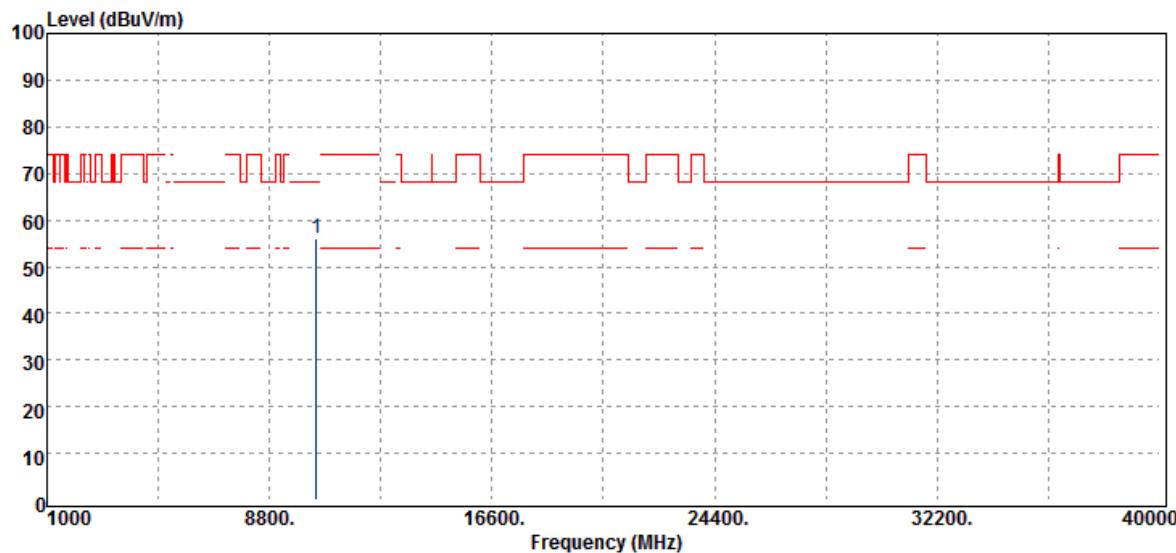
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Operation Band :802.11aB1
 Fundamental Frequency :5220 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
10440.00	Peak	40.56	15.58	56.14	68.20	-12.06

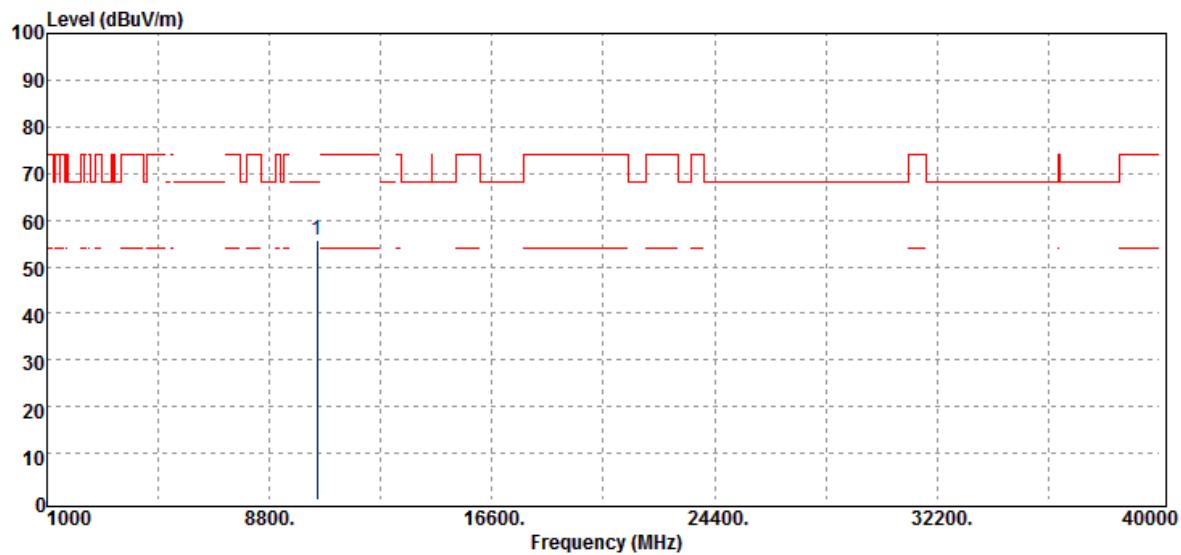
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Operation Band :802.11aB1
Fundamental Frequency :5240 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-21
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
10480.00	Peak	39.15	16.48	55.63	68.20	-12.57

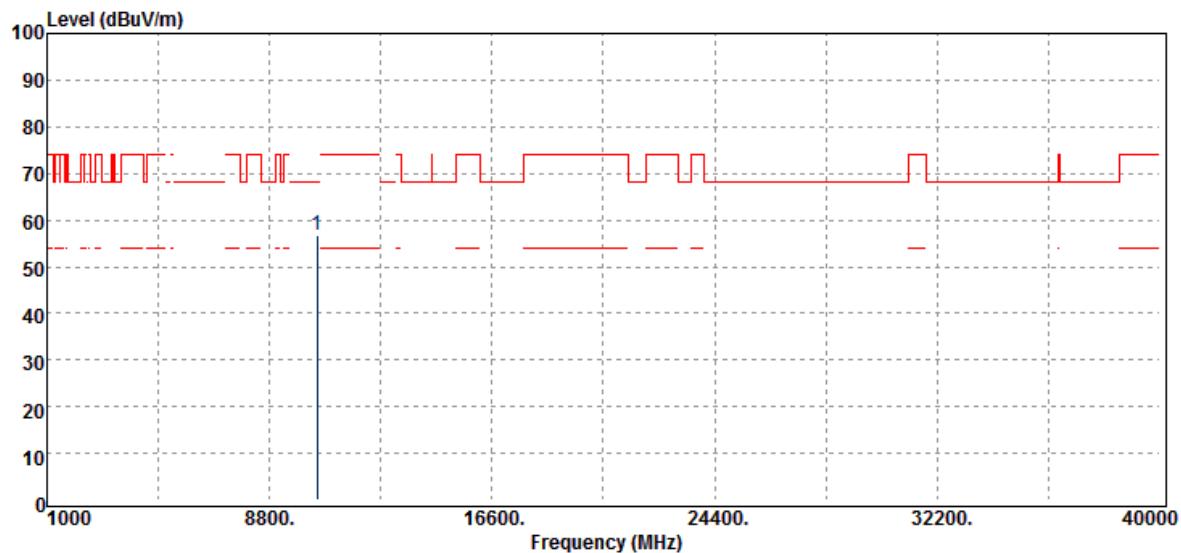
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Operation Band :802.11aB1
 Fundamental Frequency :5240 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
10480.00	Peak	40.27	16.48	56.75	68.20	-11.45

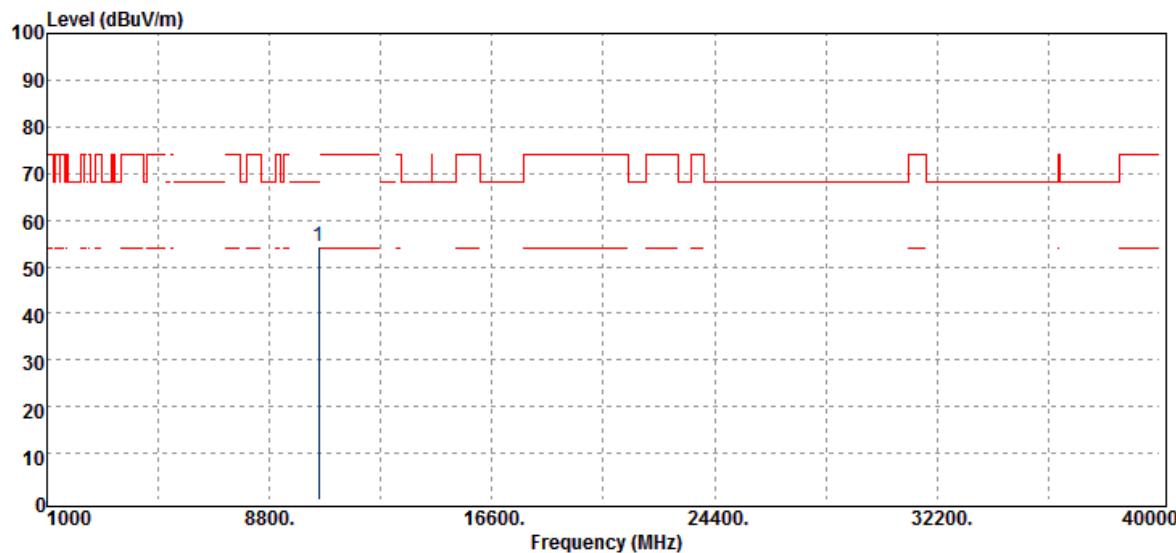
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Band :802.11aB2 Test Date :2019-03-21
Fundamental Frequency :5260 MHz Temp./Humi. :23 deg_C / 62 RH
Operation Mode :Tx CH LOW Engineer :Wei
EUT Pol. :E1 Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
10520.00	Peak	38.78	15.57	54.35	68.20	-13.85

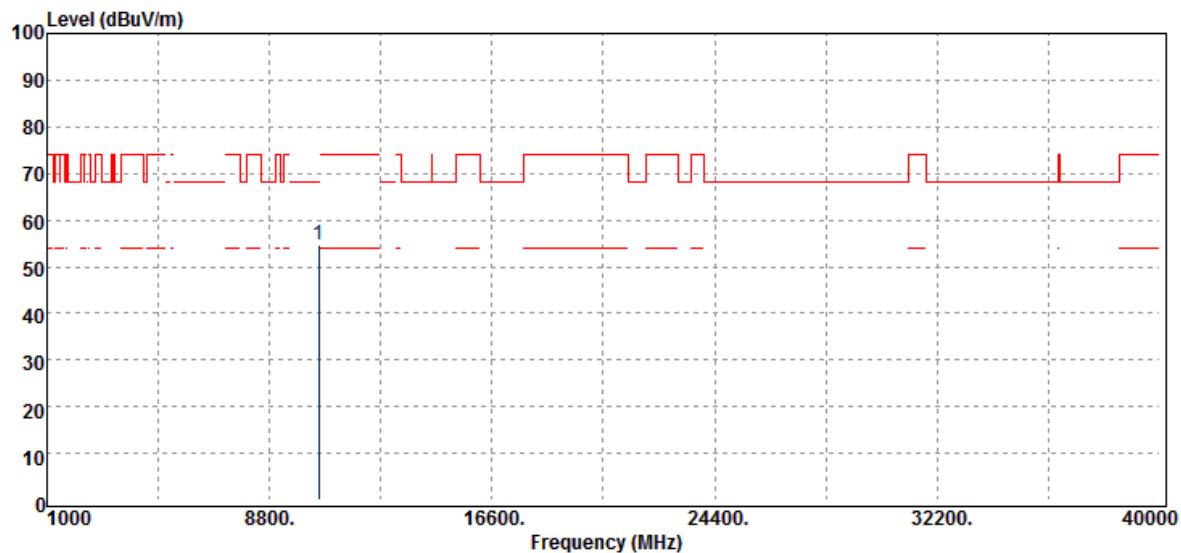
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Operation Band :802.11aB2
 Fundamental Frequency :5260 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
10520.00	Peak	39.25	15.57	54.82	68.20	-13.38

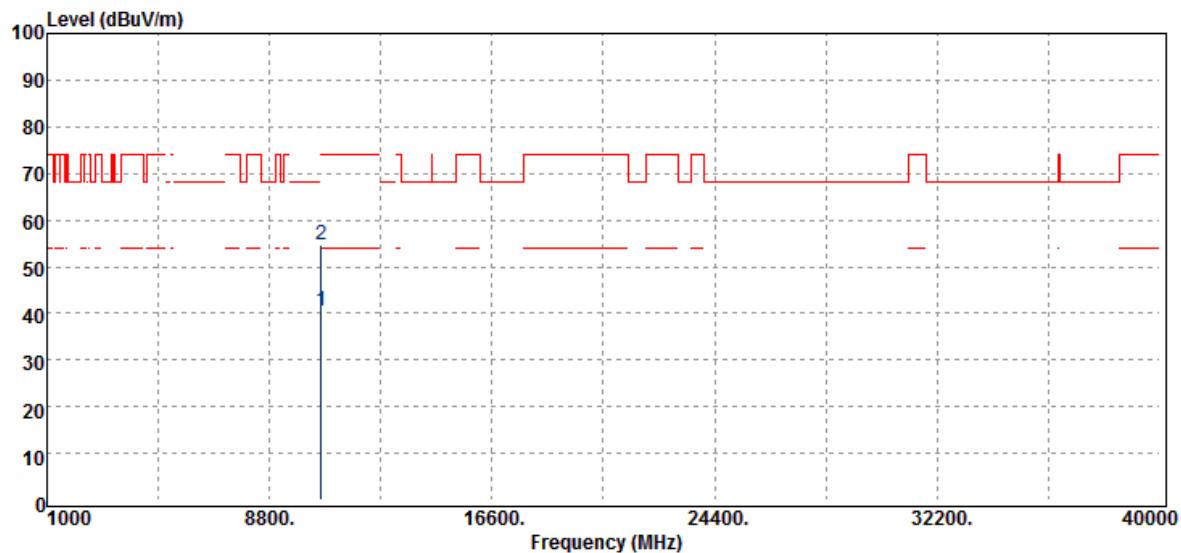
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Operation Band :802.11aB2
 Fundamental Frequency :5300 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
10600.00	Average	25.11	15.47	40.58	54.00	-13.42
10600.00	Peak	39.16	15.47	54.63	74.00	-19.37

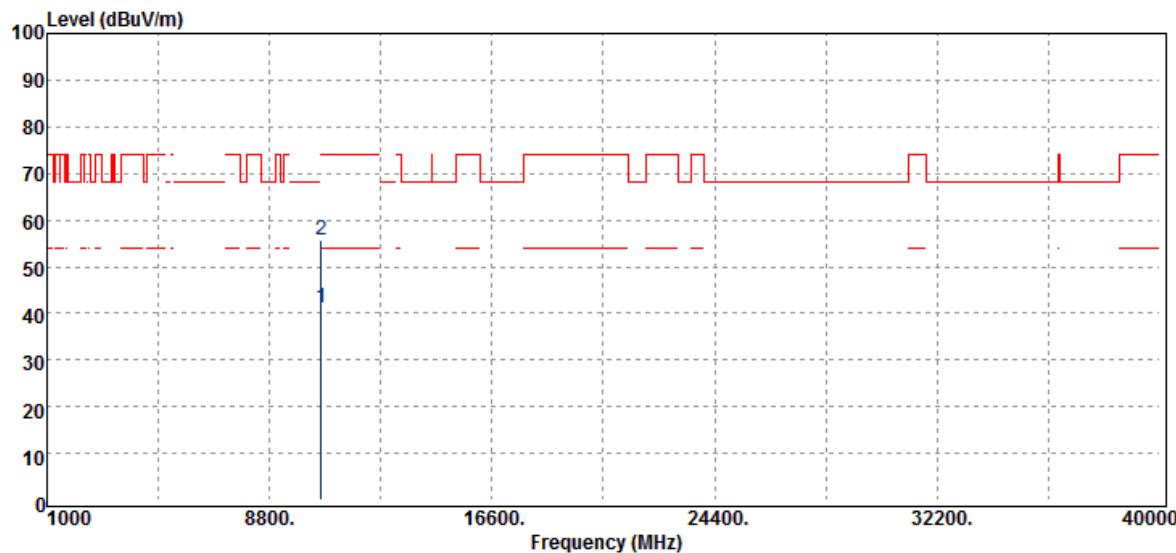
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Operation Band :802.11aB2
 Fundamental Frequency :5300 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
10600.00	Average	25.67	15.47	41.14	54.00	-12.86
10600.00	Peak	40.22	15.47	55.69	74.00	-18.31

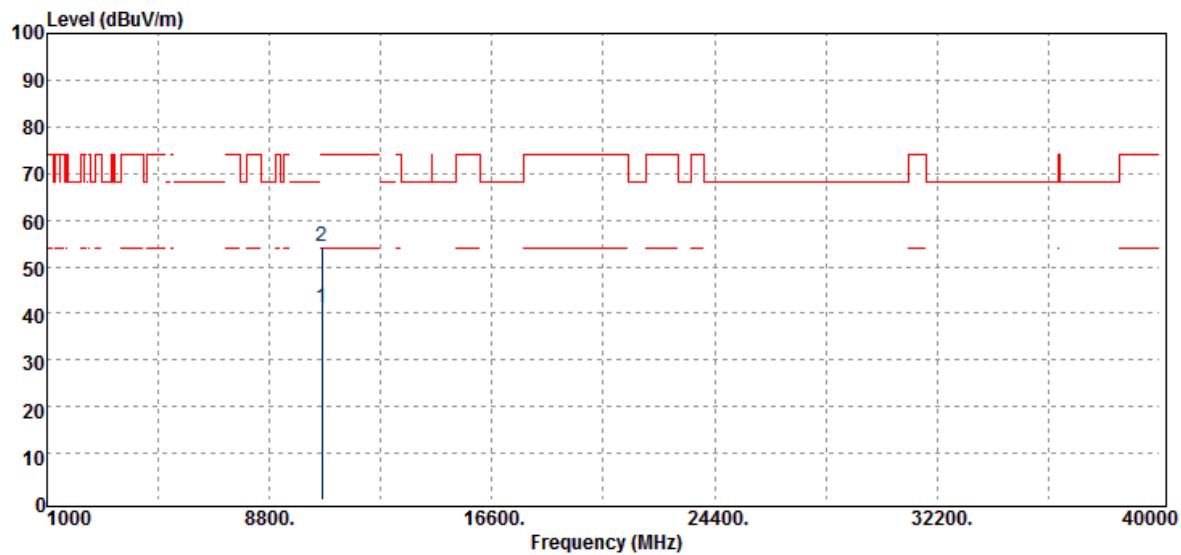
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Operation Band :802.11aB2
 Fundamental Frequency :5320 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
10640.00	Average	24.95	16.12	41.07	54.00	-12.93
10640.00	Peak	38.24	16.12	54.36	74.00	-19.64

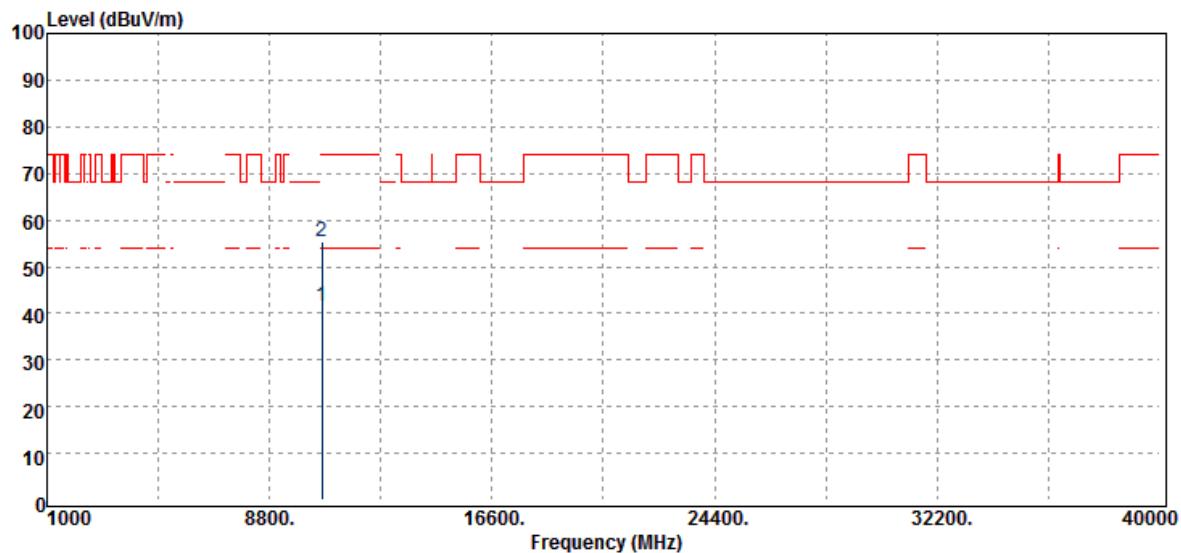
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Operation Band :802.11aB2
 Fundamental Frequency :5320 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
10640.00	Average	25.34	16.12	41.46	54.00	-12.54
10640.00	Peak	39.16	16.12	55.28	74.00	-18.72

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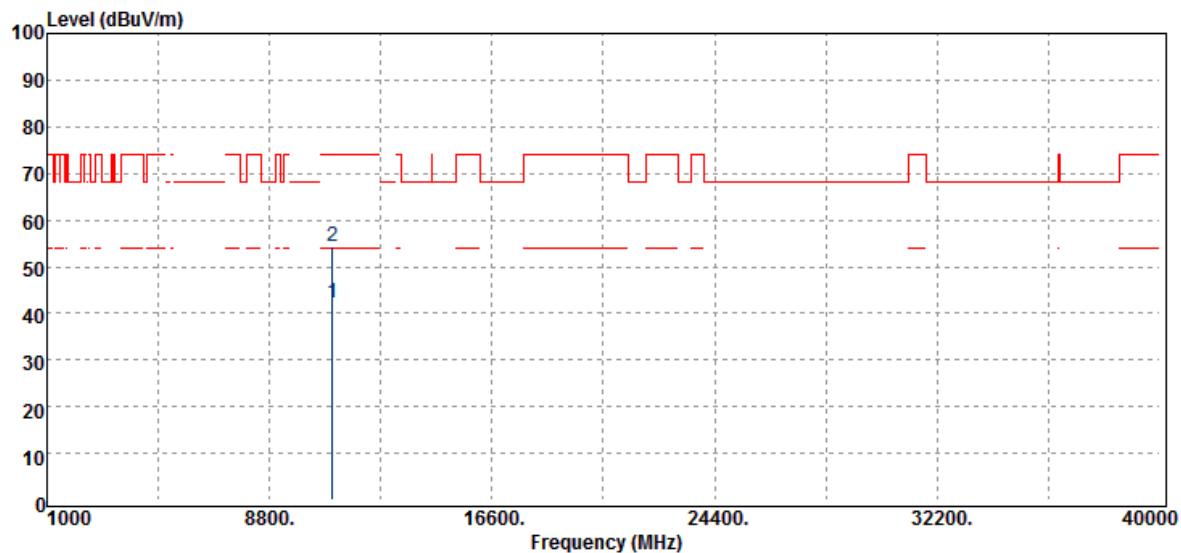
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Band : 802.11aB3
 Fundamental Frequency : 5500 MHz
 Operation Mode : Tx CH LOW
 EUT Pol. : E1 Plane

Test Date : 2019-03-21
 Temp./Humi. : 23 deg_C / 62 RH
 Engineer : Wei
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11000.00	Average	24.33	17.75	42.08	54.00	-11.92
11000.00	Peak	36.56	17.75	54.31	74.00	-19.69

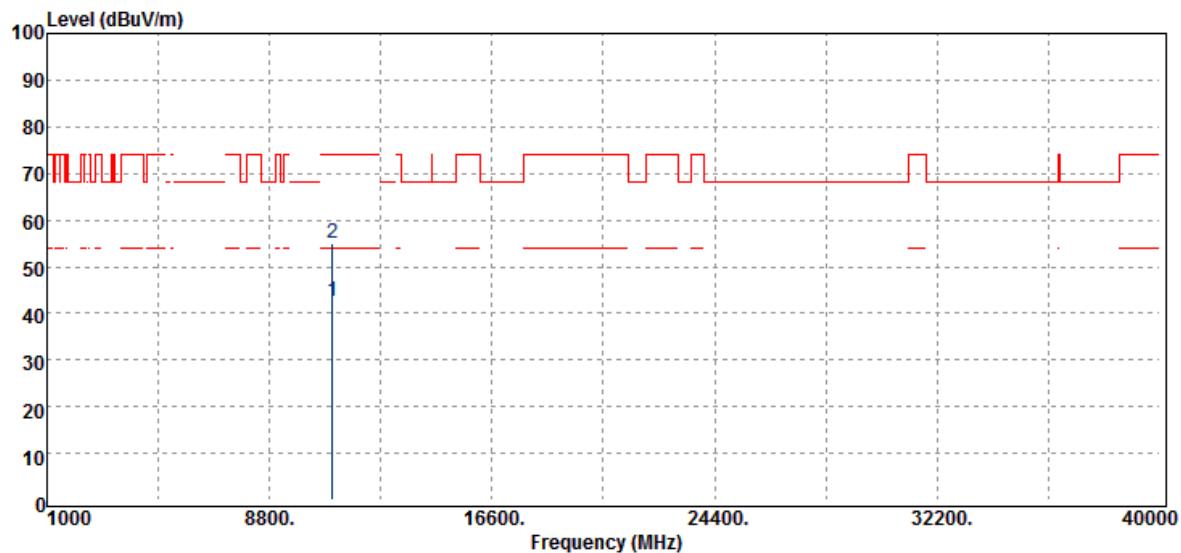
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Operation Band :802.11aB3
 Fundamental Frequency :5500 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11000.00	Average	24.68	17.75	42.43	54.00	-11.57
11000.00	Peak	37.22	17.75	54.97	74.00	-19.03

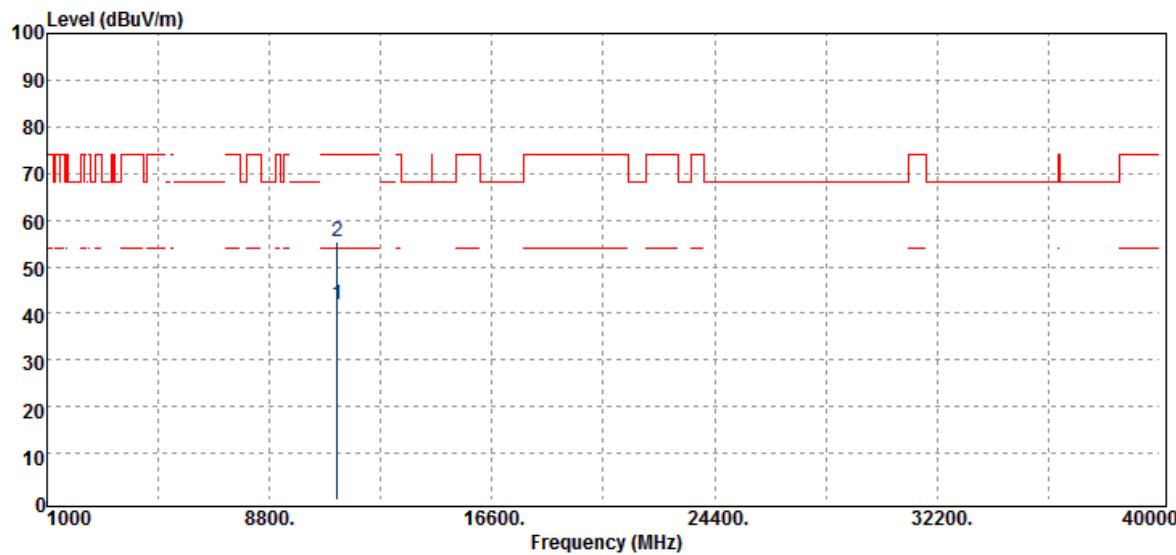
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Operation Band :802.11aB3
 Fundamental Frequency :5580 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11160.00	Average	25.17	16.53	41.70	54.00	-12.30
11160.00	Peak	38.68	16.53	55.21	74.00	-18.79

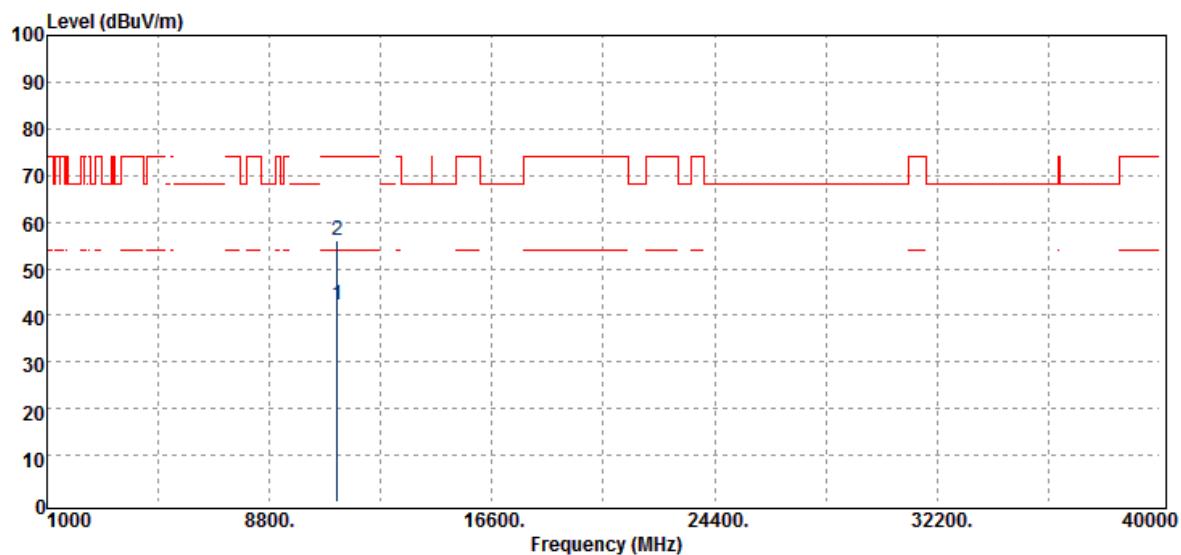
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Operation Band :802.11aB3
 Fundamental Frequency :5580 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11160.00	Average	25.54	16.53	42.07	54.00	-11.93
11160.00	Peak	39.62	16.53	56.15	74.00	-17.85

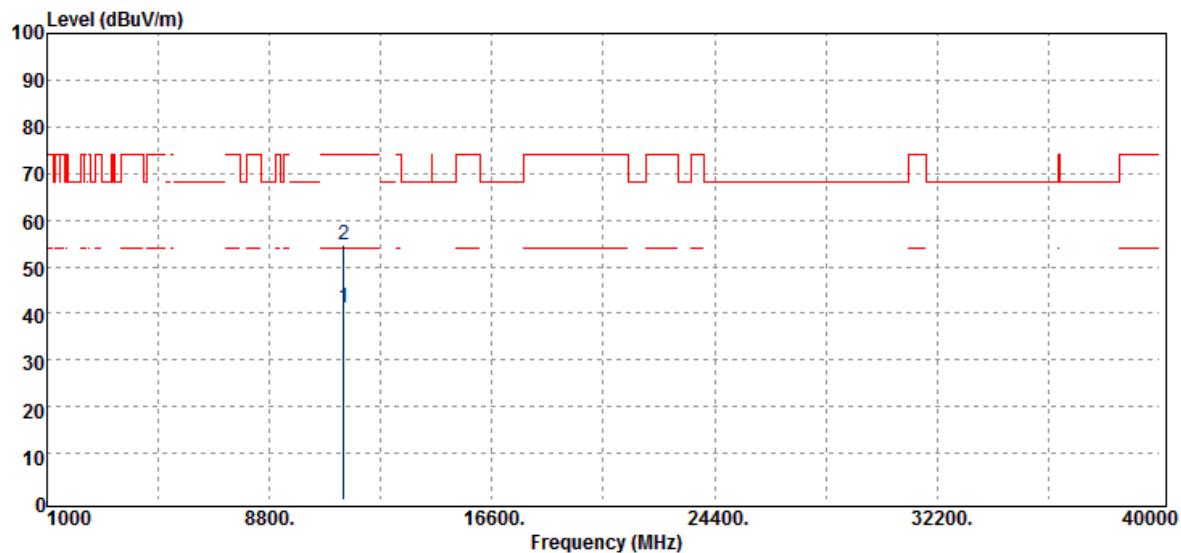
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Operation Band :802.11aB3
 Fundamental Frequency :5700 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin
11400.00	Average	24.81	16.48	41.29	54.00	-12.71
11400.00	Peak	38.11	16.48	54.59	74.00	-19.41

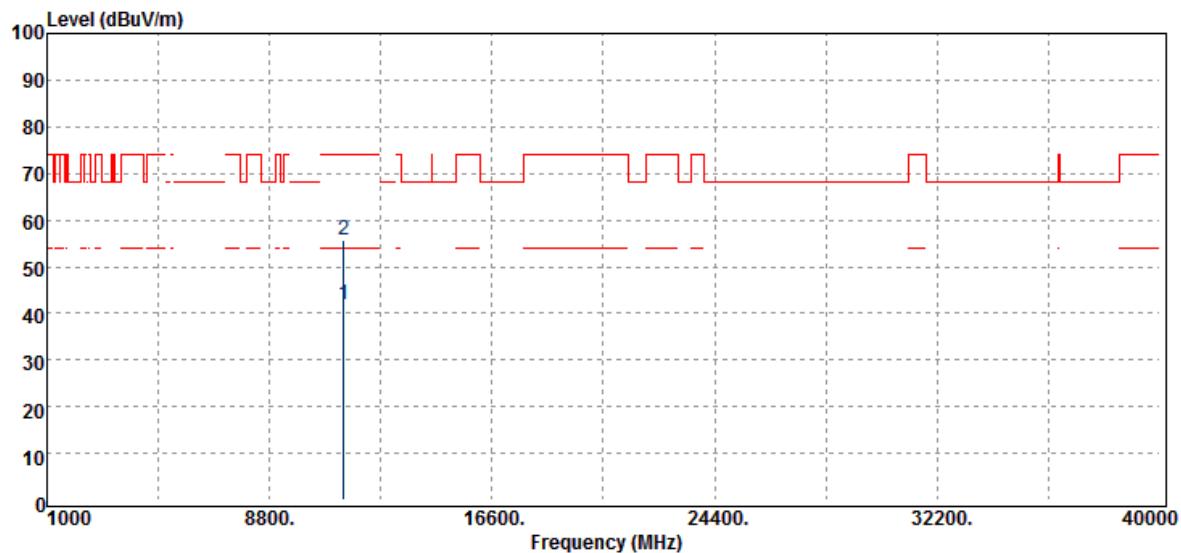
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Operation Band :802.11aB3
 Fundamental Frequency :5700 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11400.00	Average	25.23	16.48	41.71	54.00	-12.29
11400.00	Peak	39.12	16.48	55.60	74.00	-18.40

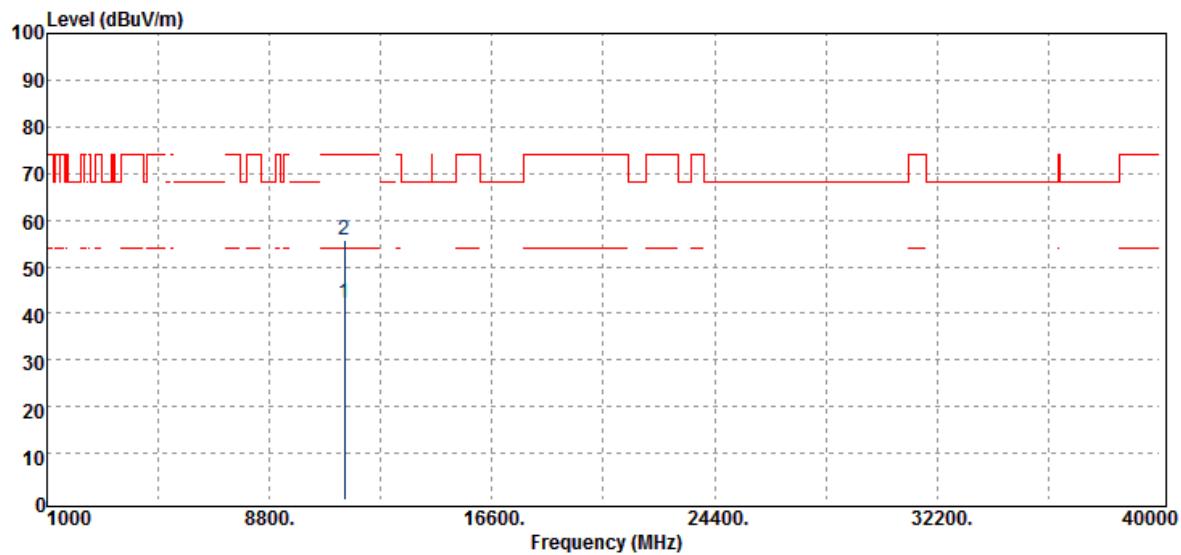
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Operation Band :802.11aB4
 Fundamental Frequency :5720 MHz
 Operation Mode :Tx CH CH144
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11440.00	Average	25.12	17.09	42.21	54.00	-11.79
11440.00	Peak	38.70	17.09	55.79	74.00	-18.21

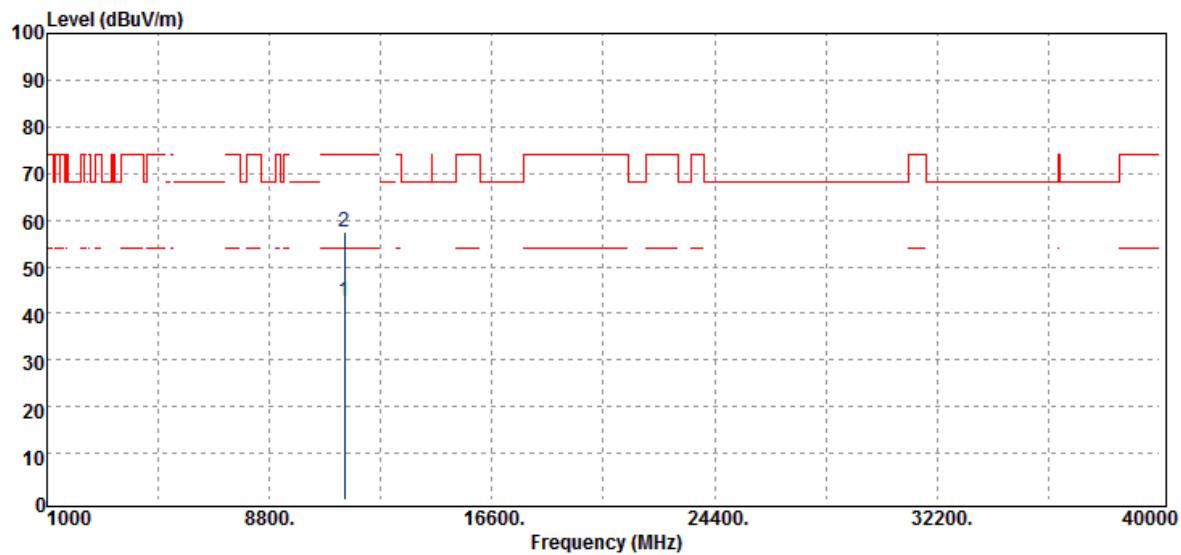
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Operation Band :802.11aB4
 Fundamental Frequency :5720 MHz
 Operation Mode :Tx CH CH144
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11440.00	Average	25.53	17.09	42.62	54.00	-11.38
11440.00	Peak	40.20	17.09	57.29	74.00	-16.71

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

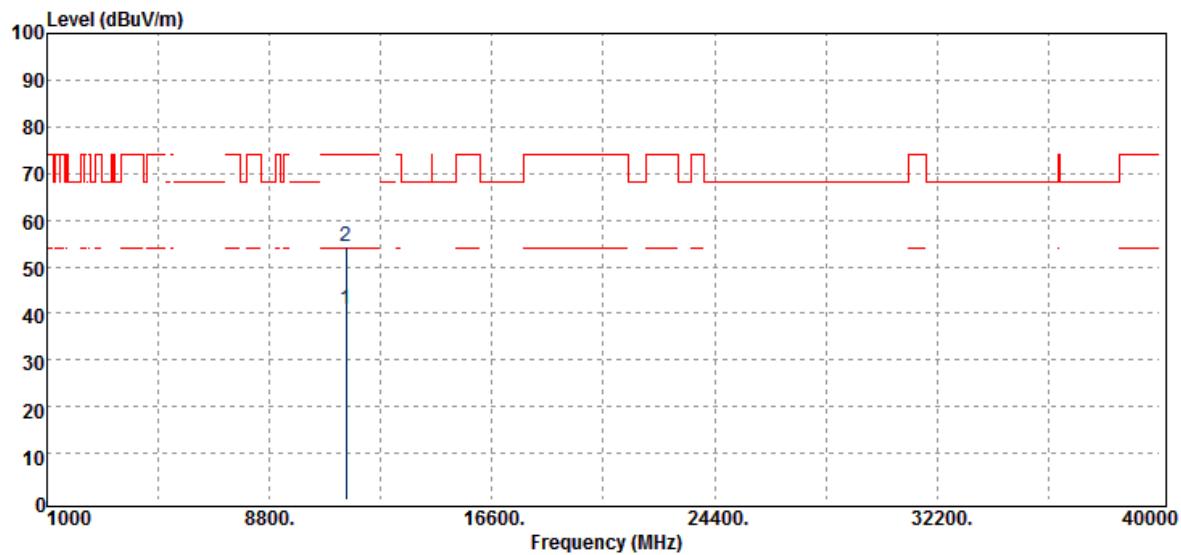
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Band :802.11aB4
 Fundamental Frequency :5745 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11490.00	Average	24.97	15.85	40.82	54.00	-13.18
11490.00	Peak	38.63	15.85	54.48	74.00	-19.52

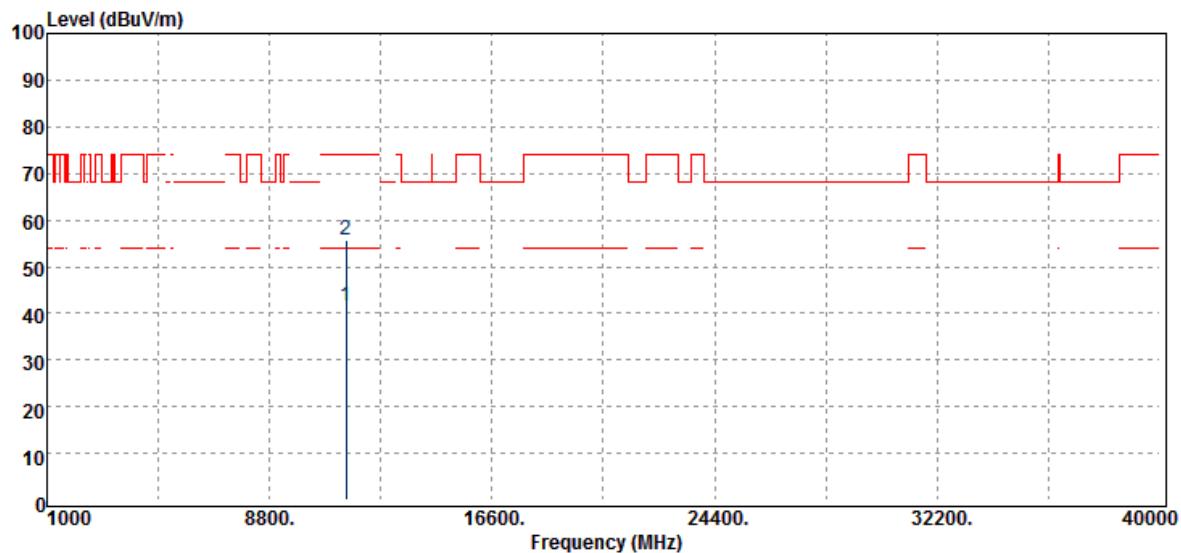
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Operation Band :802.11aB4
 Fundamental Frequency :5745 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11490.00	Average	25.51	15.85	41.36	54.00	-12.64
11490.00	Peak	39.88	15.85	55.73	74.00	-18.27

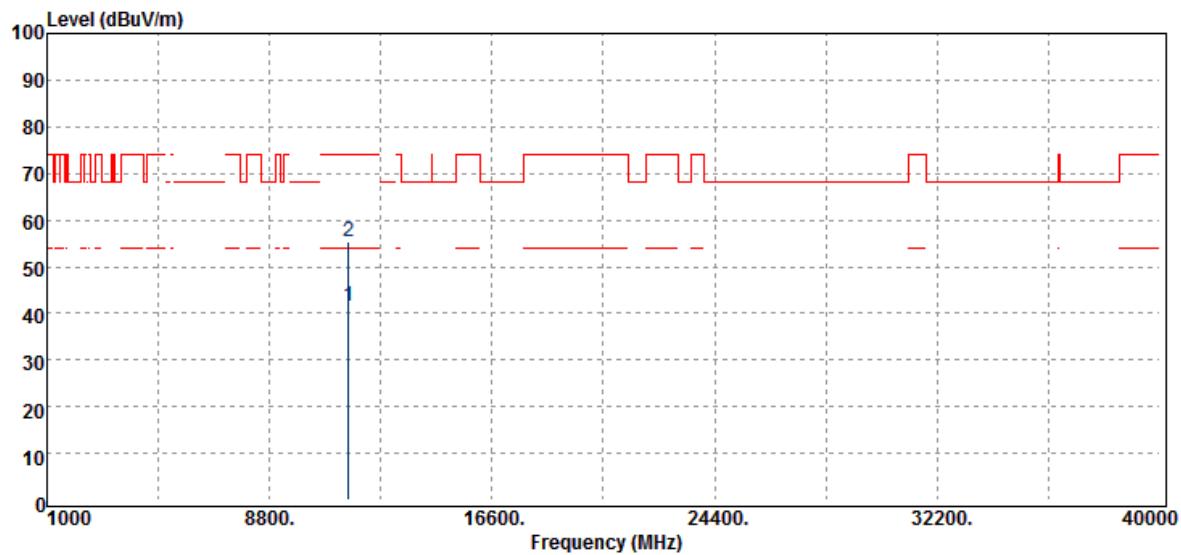
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Operation Band :802.11aB4
 Fundamental Frequency :5785 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11570.00	Average	25.16	16.29	41.45	54.00	-12.55
11570.00	Peak	39.07	16.29	55.36	74.00	-18.64

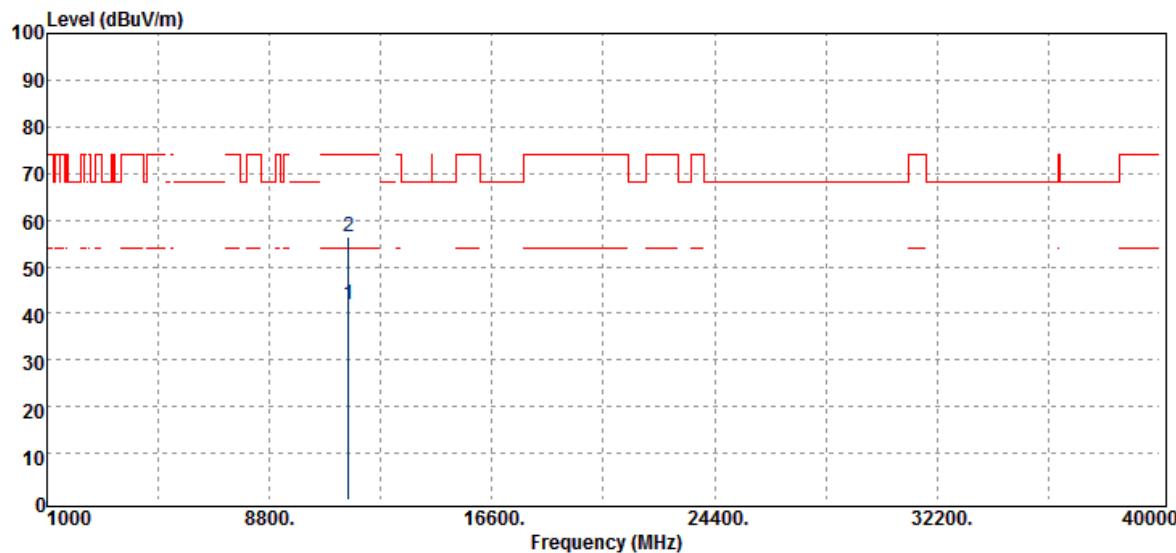
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Operation Band :802.11aB4
 Fundamental Frequency :5785 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11570.00	Average	25.59	16.29	41.88	54.00	-12.12
11570.00	Peak	40.20	16.29	56.49	74.00	-17.51

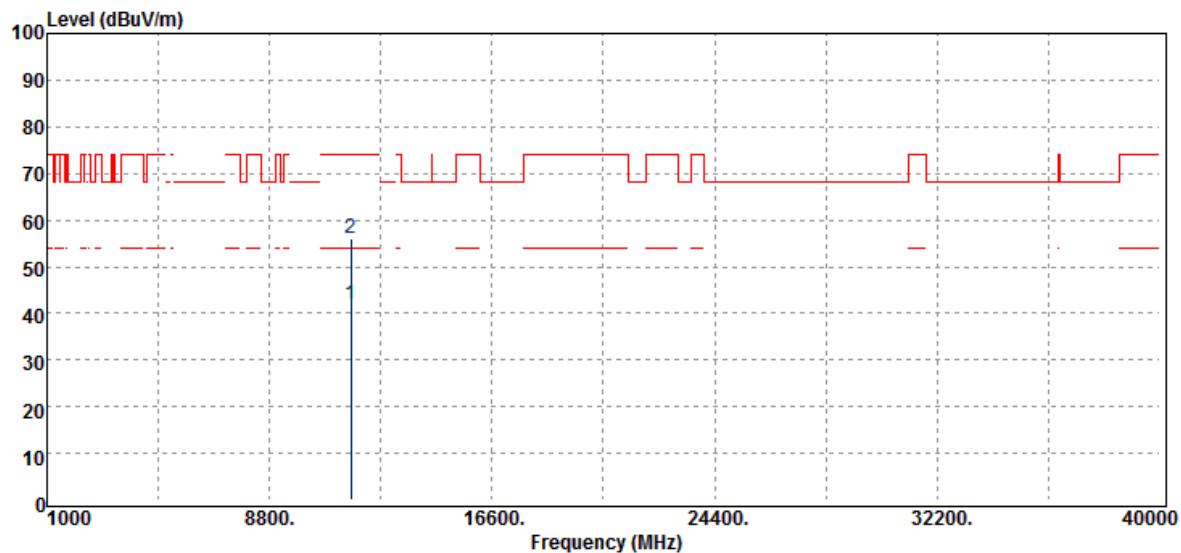
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Operation Band :802.11aB4
 Fundamental Frequency :5825 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11650.00	Average	25.14	16.61	41.75	54.00	-12.25
11650.00	Peak	39.27	16.61	55.88	74.00	-18.12

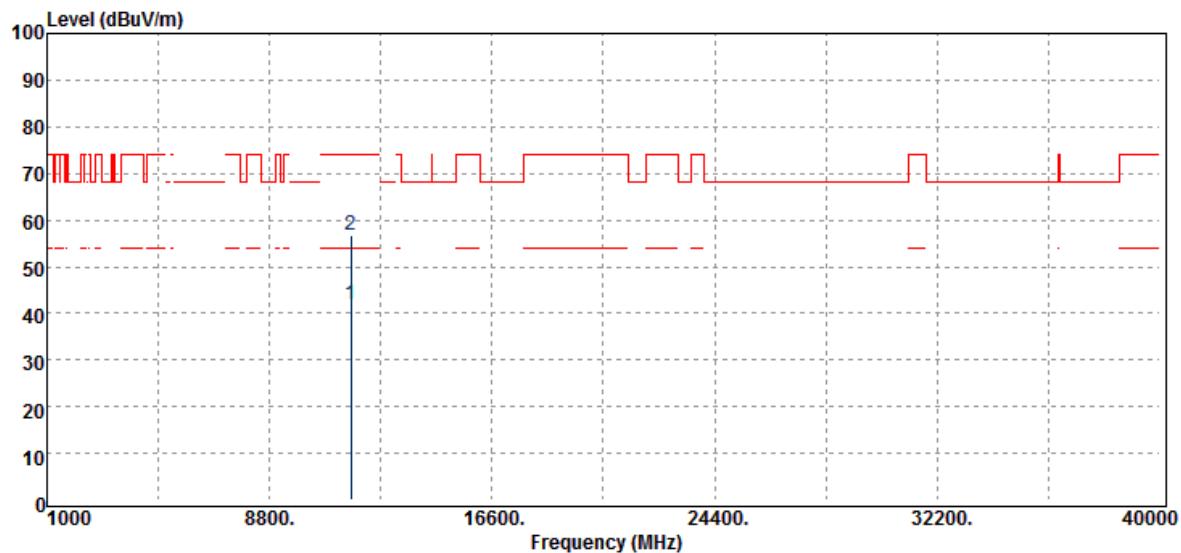
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Operation Band :802.11aB4
 Fundamental Frequency :5825 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11650.00	Average	25.38	16.61	41.99	54.00	-12.01
11650.00	Peak	40.04	16.61	56.65	74.00	-17.35

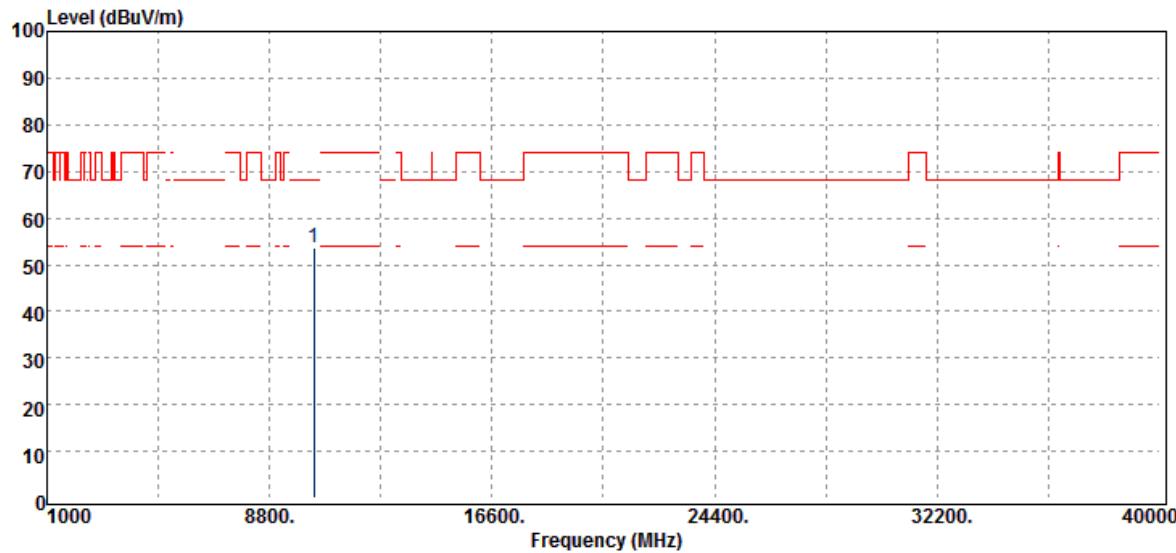
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Band : 802.11n20B1 Test Date : 2019-03-21
 Fundamental Frequency : 5180 MHz Temp./Humi. : 23 deg_C / 62 RH
 Operation Mode : Tx CH LOW Engineer : Wei
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
10360.00	Peak	39.37	14.41	53.78	68.20	-14.42

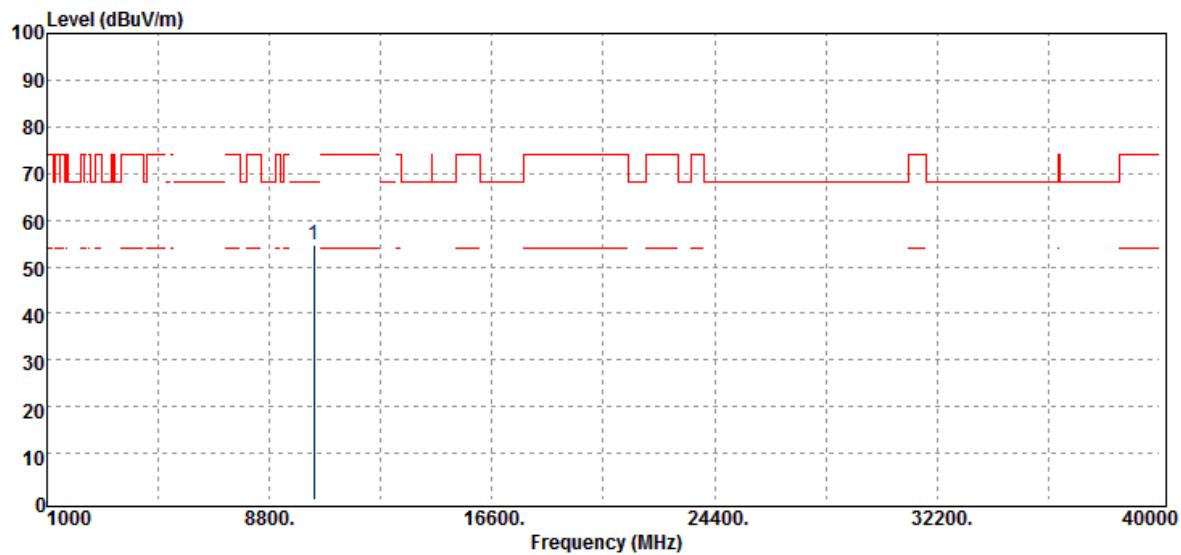
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Operation Band :802.11n20B1
 Fundamental Frequency :5180 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
10360.00	Peak	40.26	14.41	54.67	68.20	-13.53

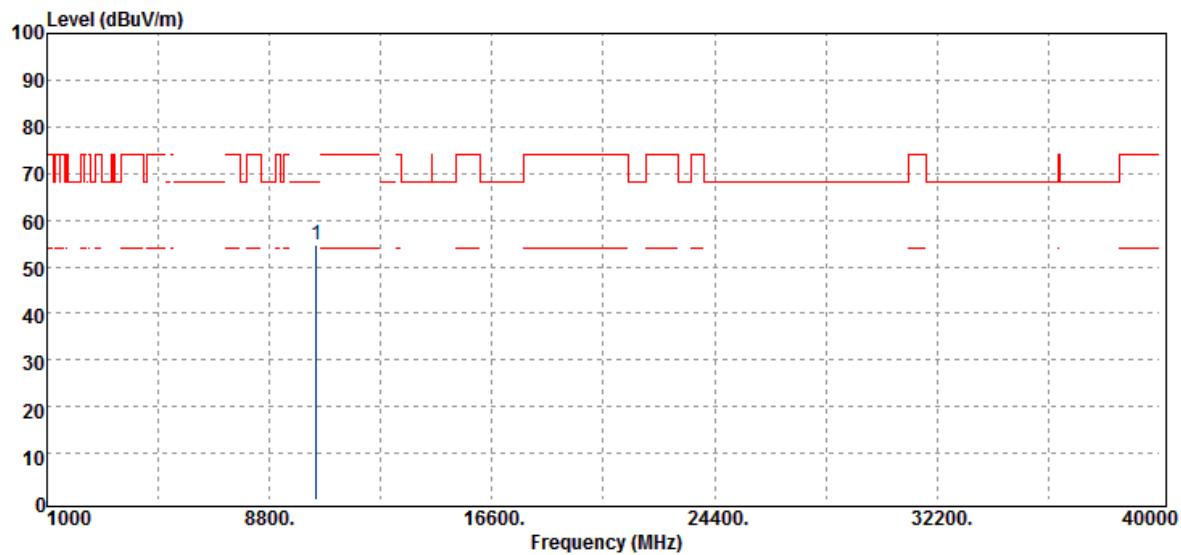
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Operation Band :802.11n20B1
 Fundamental Frequency :5220 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
10440.00	Peak	39.05	15.58	54.63	68.20	-13.57

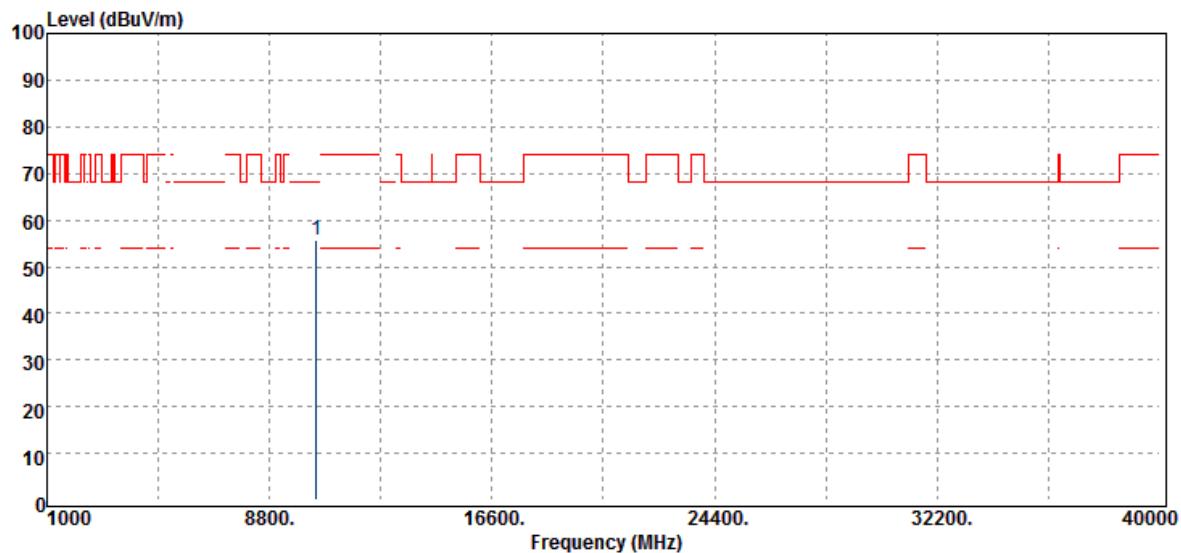
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Operation Band :802.11n20B1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :E1 Plane

Test Date :2019-03-21
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
10440.00	Peak	40.16	15.58	55.74	68.20	-12.46

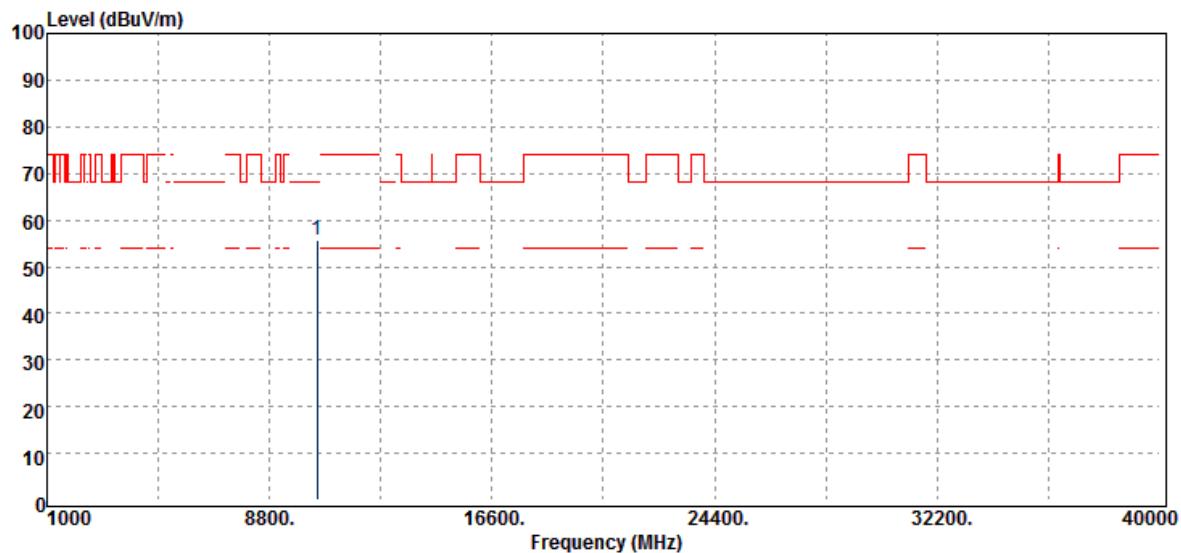
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Operation Band :802.11n20B1
Fundamental Frequency :5240 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-21
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
10480.00	Peak	39.16	16.48	55.64	68.20	-12.56

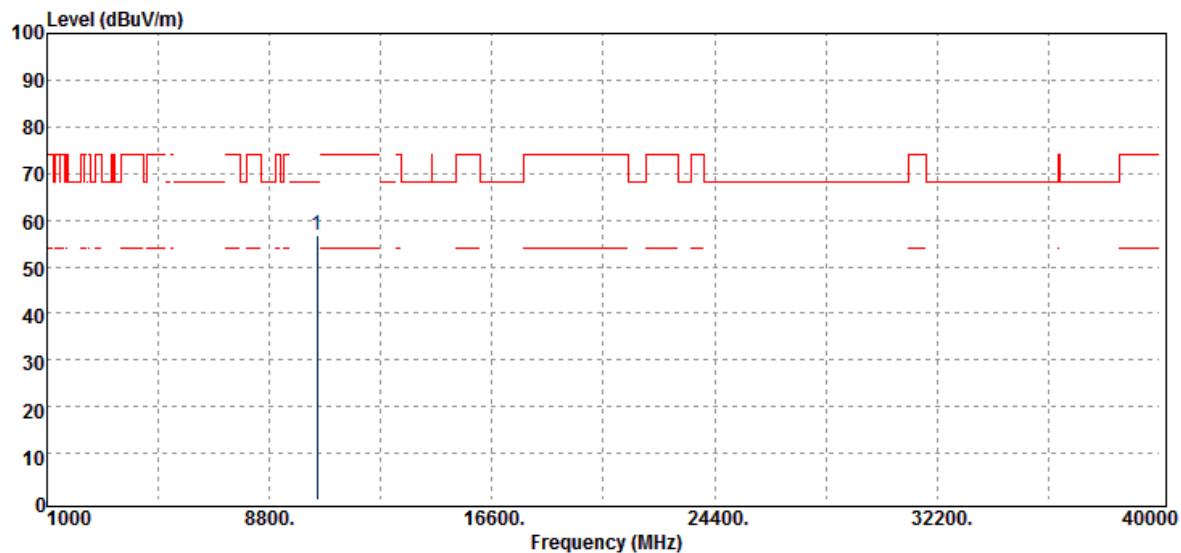
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Operation Band :802.11n20B1
 Fundamental Frequency :5240 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
10480.00	Peak	40.36	16.48	56.84	68.20	-11.36

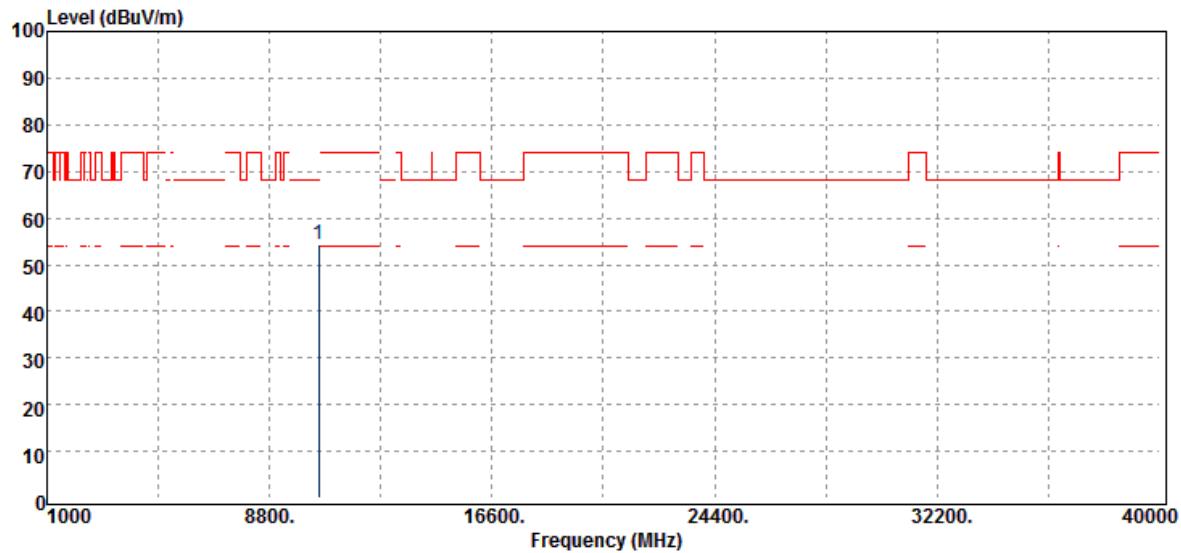
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Band	:802.11n20B2	Test Date	:2019-03-21
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin
10520.00	Peak	38.88	15.57	54.45	68.20	-13.75

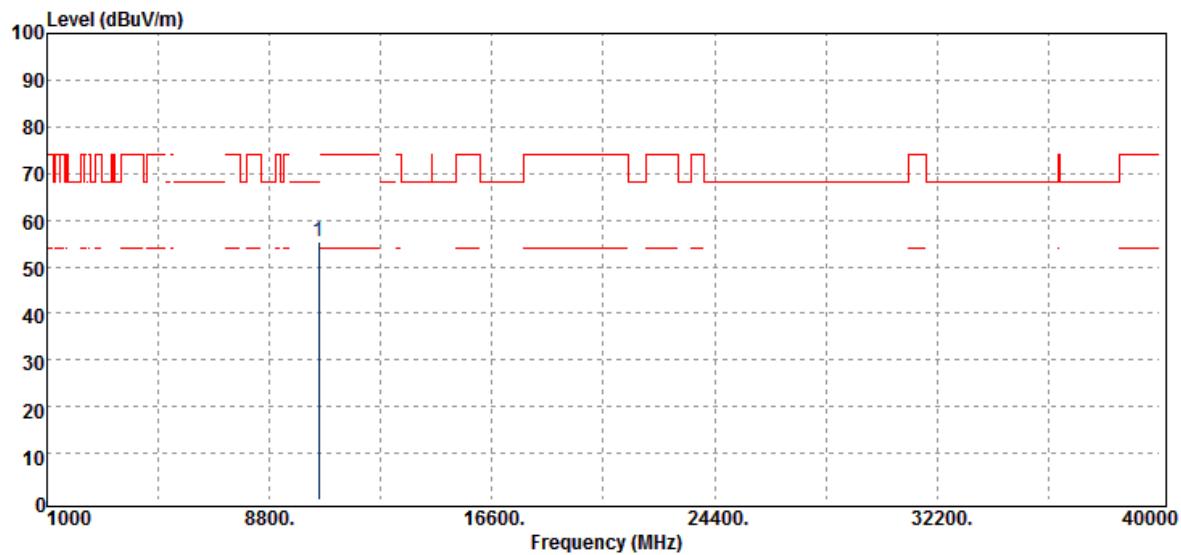
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Operation Band :802.11n20B2
Fundamental Frequency :5260 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-21
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin
10520.00	Peak	39.73	15.57	55.30	68.20	-12.90

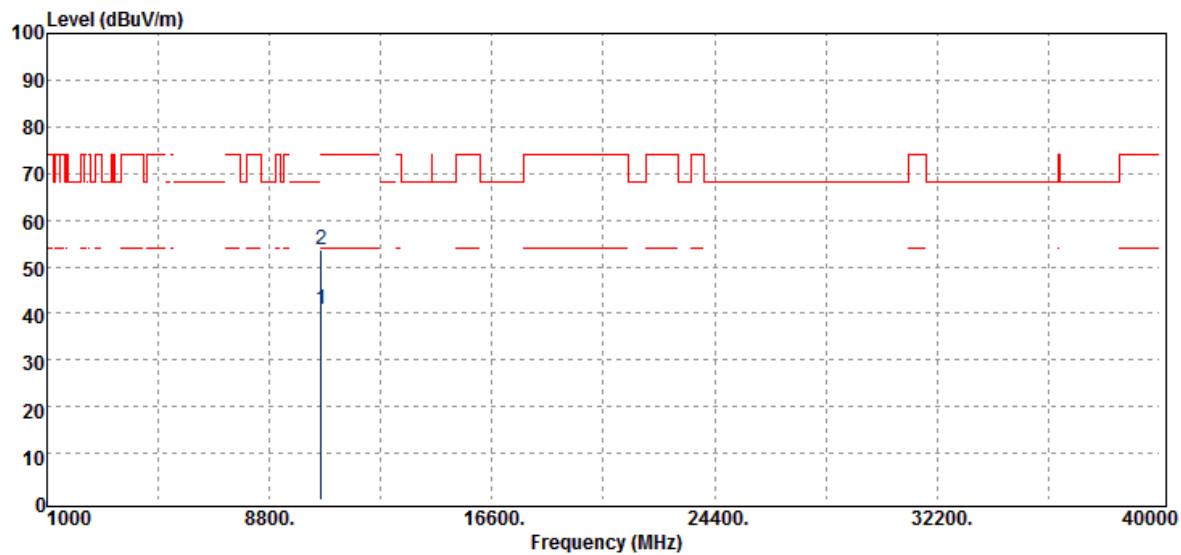
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Operation Band :802.11n20B2
 Fundamental Frequency :5300 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
10600.00	Average	25.21	15.47	40.68	54.00	-13.32
10600.00	Peak	38.16	15.47	53.63	74.00	-20.37

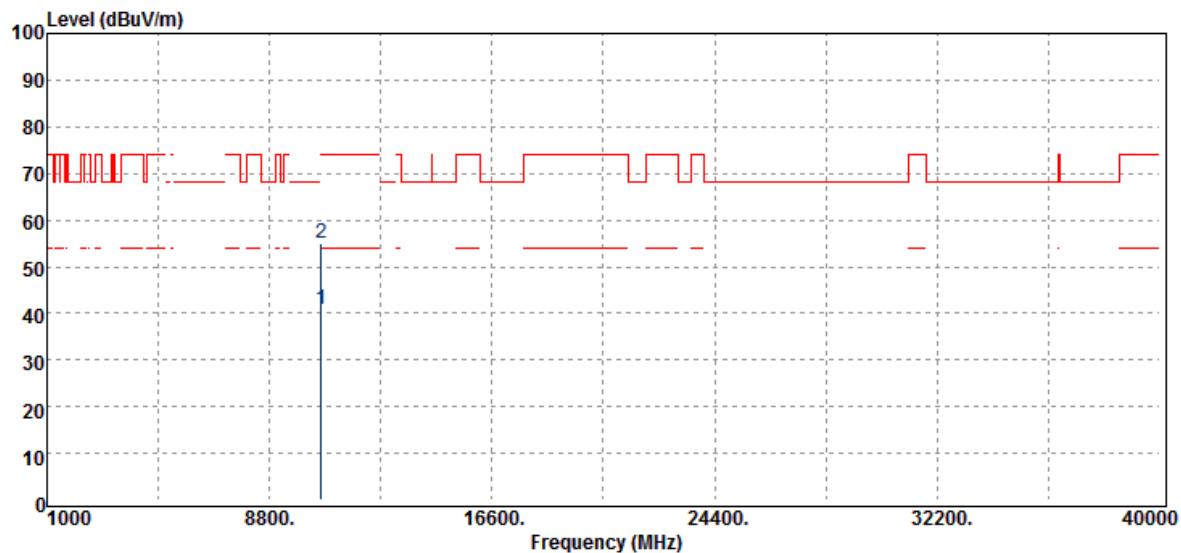
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Operation Band :802.11n20B2
 Fundamental Frequency :5300 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
10600.00	Average	25.50	15.47	40.97	54.00	-13.03
10600.00	Peak	39.68	15.47	55.15	74.00	-18.85

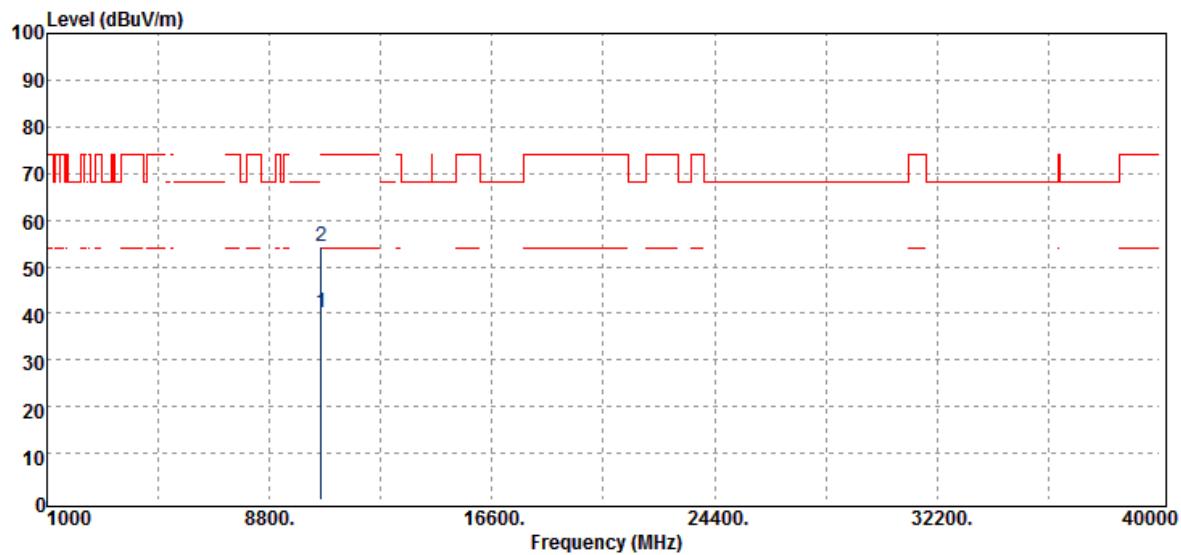
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Operation Band :802.11n20B2
 Fundamental Frequency :5320 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
10600.00	Average	24.82	15.47	40.29	54.00	-13.71
10600.00	Peak	38.72	15.47	54.19	74.00	-19.81

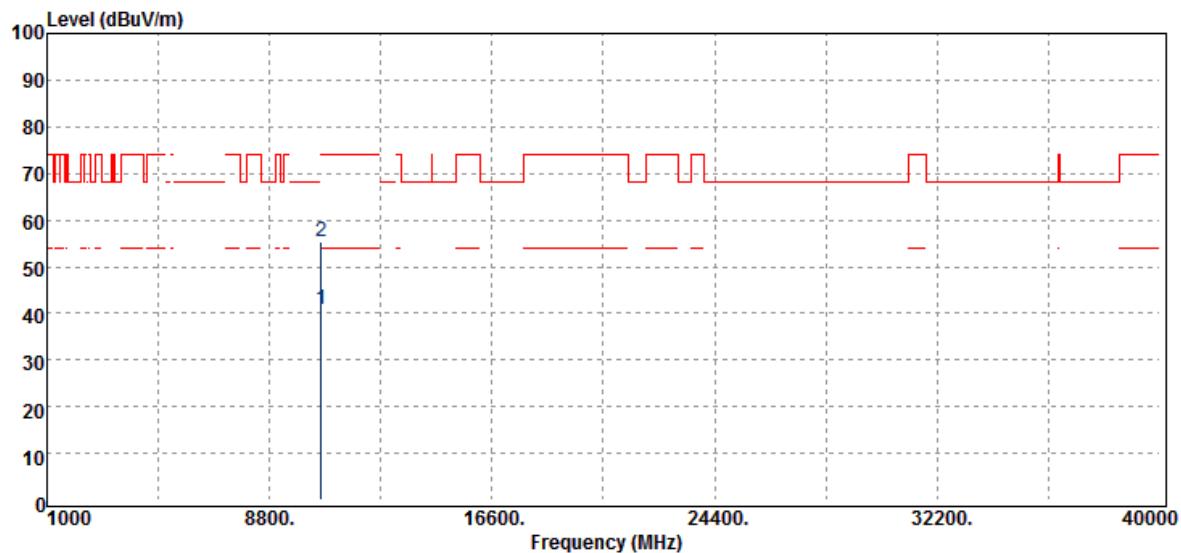
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Operation Band :802.11n20B2
 Fundamental Frequency :5320 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
10600.00	Average	25.30	15.47	40.77	54.00	-13.23
10600.00	Peak	39.76	15.47	55.23	74.00	-18.77

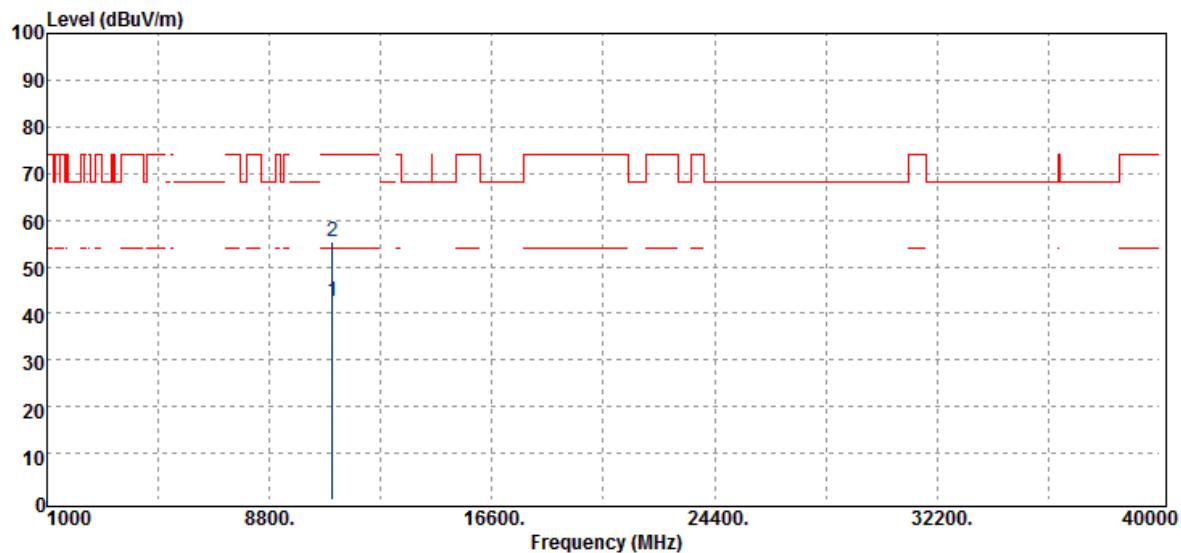
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Band	:802.11n20B3	Test Date	:2019-03-21
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11000.00	Average	24.73	17.75	42.48	54.00	-11.52
11000.00	Peak	37.56	17.75	55.31	74.00	-18.69

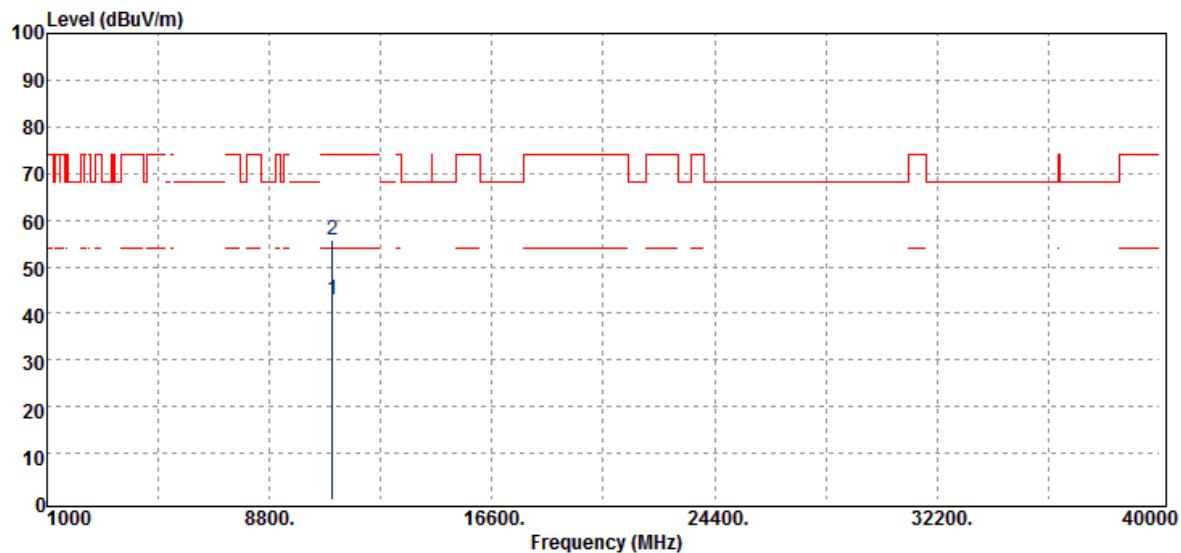
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Operation Band :802.11n20B3
 Fundamental Frequency :5500 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11000.00	Average	25.02	17.75	42.77	54.00	-11.23
11000.00	Peak	38.13	17.75	55.88	74.00	-18.12

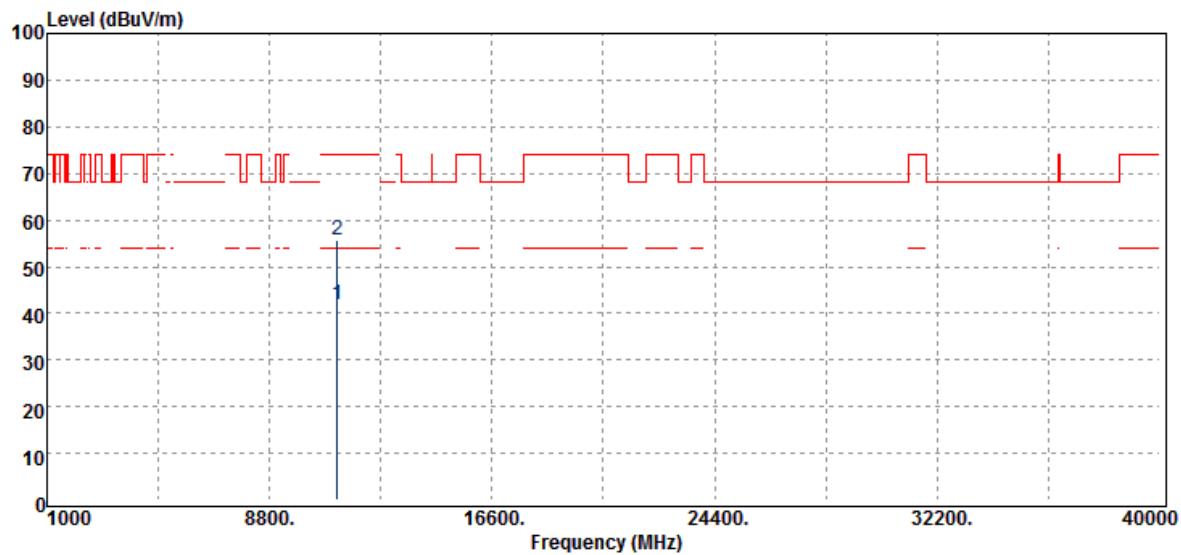
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Operation Band :802.11n20B3
 Fundamental Frequency :5580 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11160.00	Average	25.29	16.53	41.82	54.00	-12.18
11160.00	Peak	39.26	16.53	55.79	74.00	-18.21

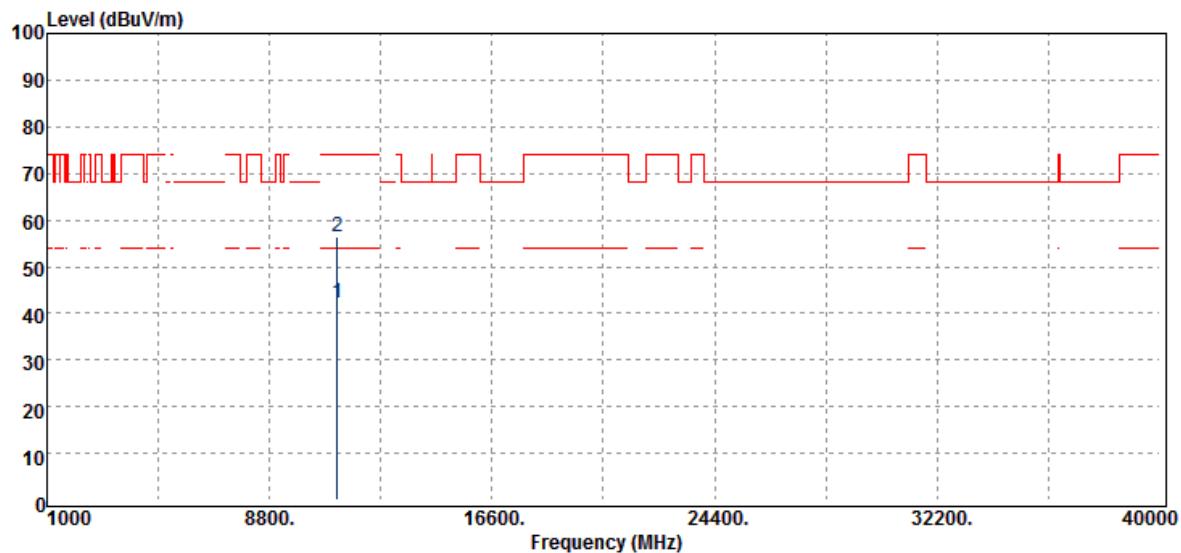
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Operation Band :802.11n20B3
 Fundamental Frequency :5580 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11160.00	Average	25.53	16.53	42.06	54.00	-11.94
11160.00	Peak	39.76	16.53	56.29	74.00	-17.71

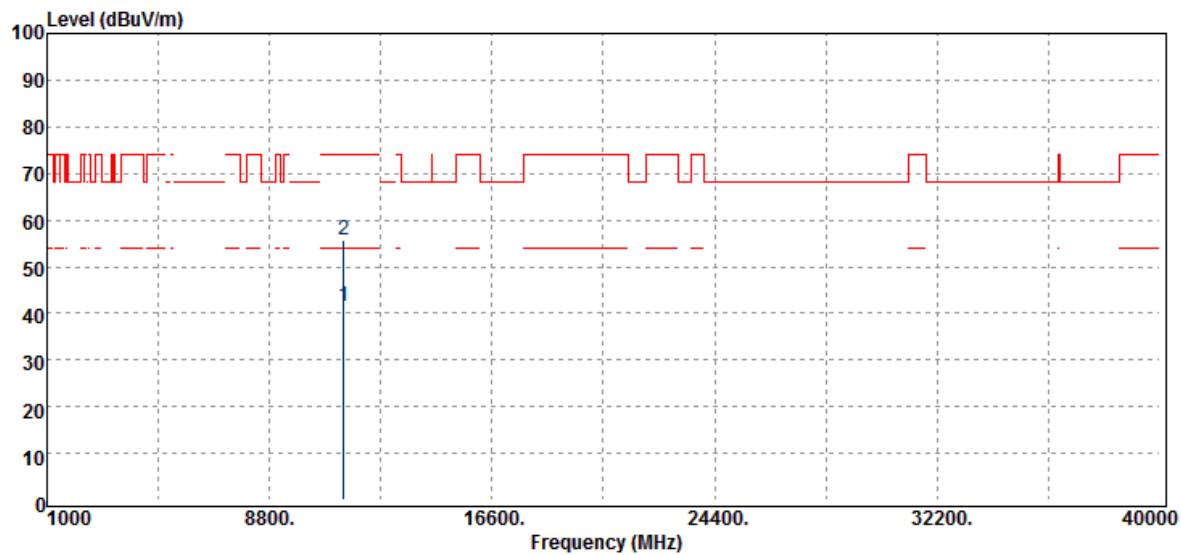
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Operation Band :802.11n20B3
 Fundamental Frequency :5700 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11400.00	Average	25.21	16.48	41.69	54.00	-12.31
11400.00	Peak	39.22	16.48	55.70	74.00	-18.30

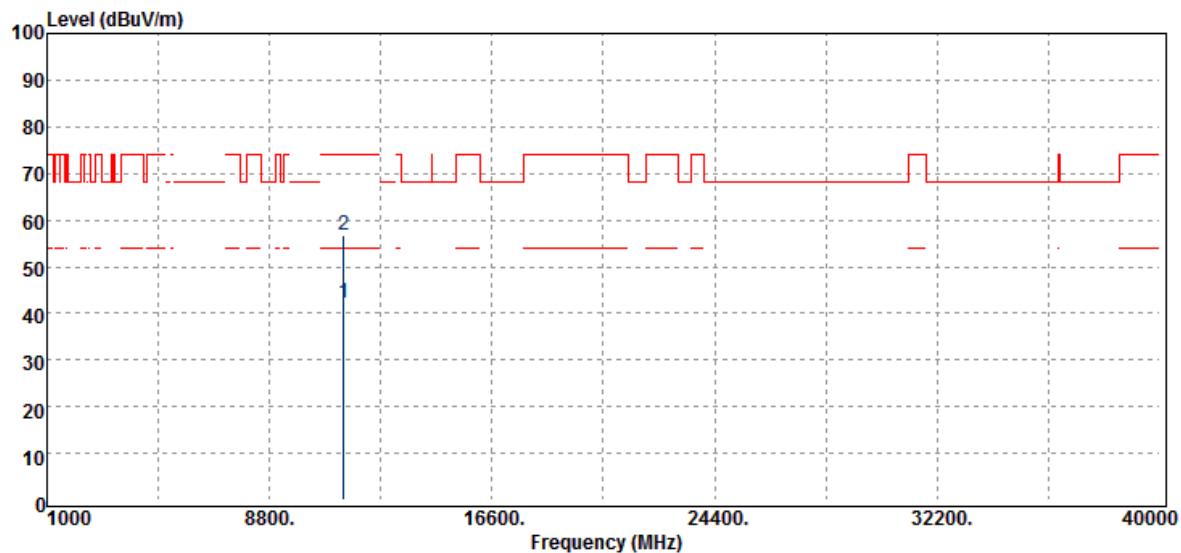
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Operation Band :802.11n20B3
 Fundamental Frequency :5700 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11400.00	Average	25.73	16.48	42.21	54.00	-11.79
11400.00	Peak	40.38	16.48	56.86	74.00	-17.14

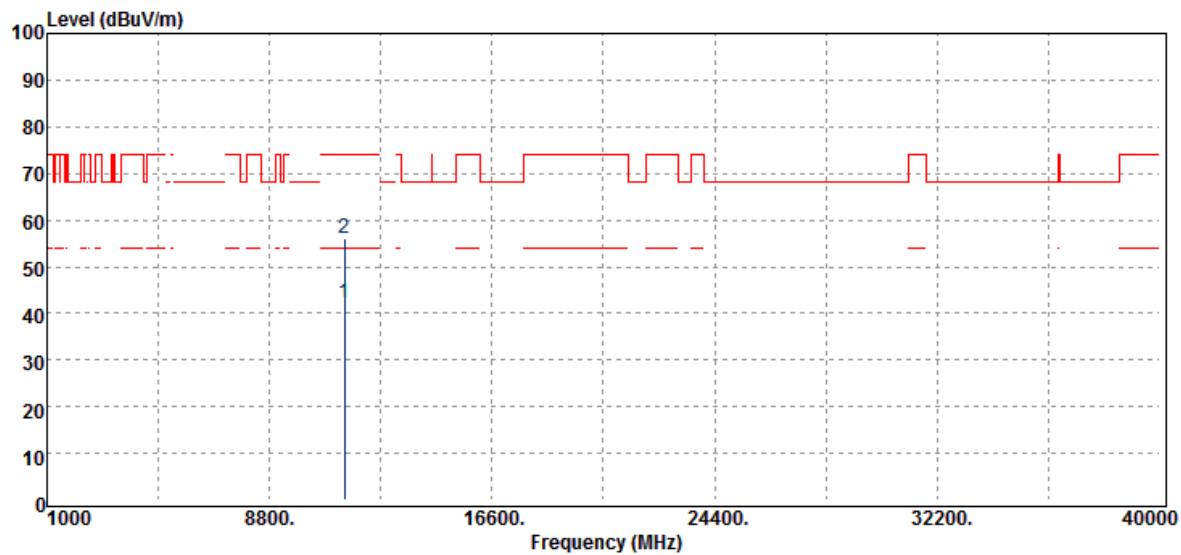
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Operation Band :802.11n20B4
 Fundamental Frequency :5720 MHz
 Operation Mode :Tx CH CH144
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11440.00	Average	25.06	17.09	42.15	54.00	-11.85
11440.00	Peak	39.03	17.09	56.12	74.00	-17.88

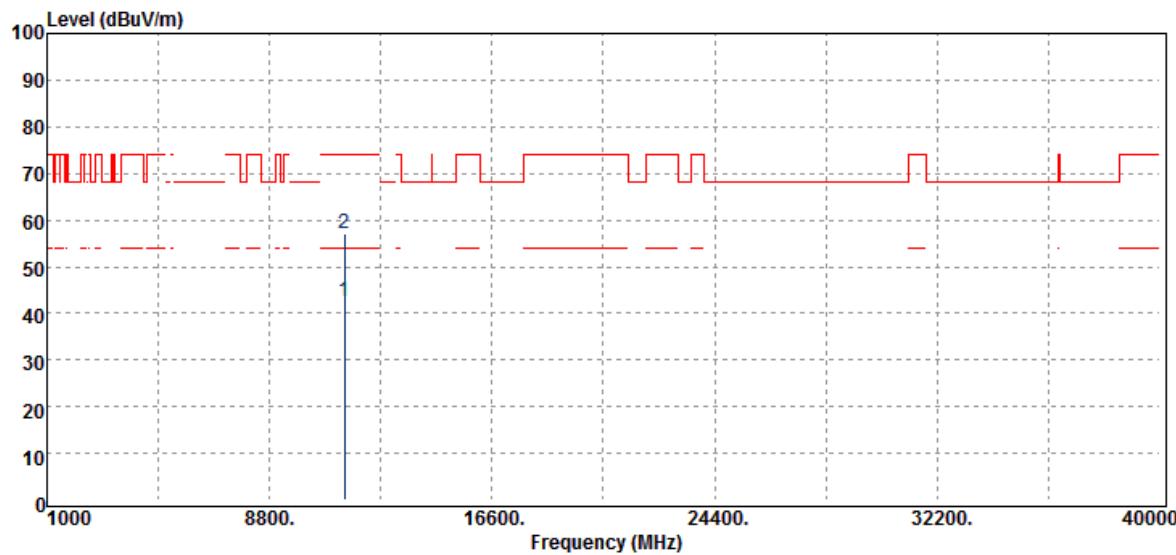
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Operation Band :802.11n20B4
 Fundamental Frequency :5720 MHz
 Operation Mode :Tx CH CH144
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11440.00	Average	25.38	17.09	42.47	54.00	-11.53
11440.00	Peak	40.10	17.09	57.19	74.00	-16.81

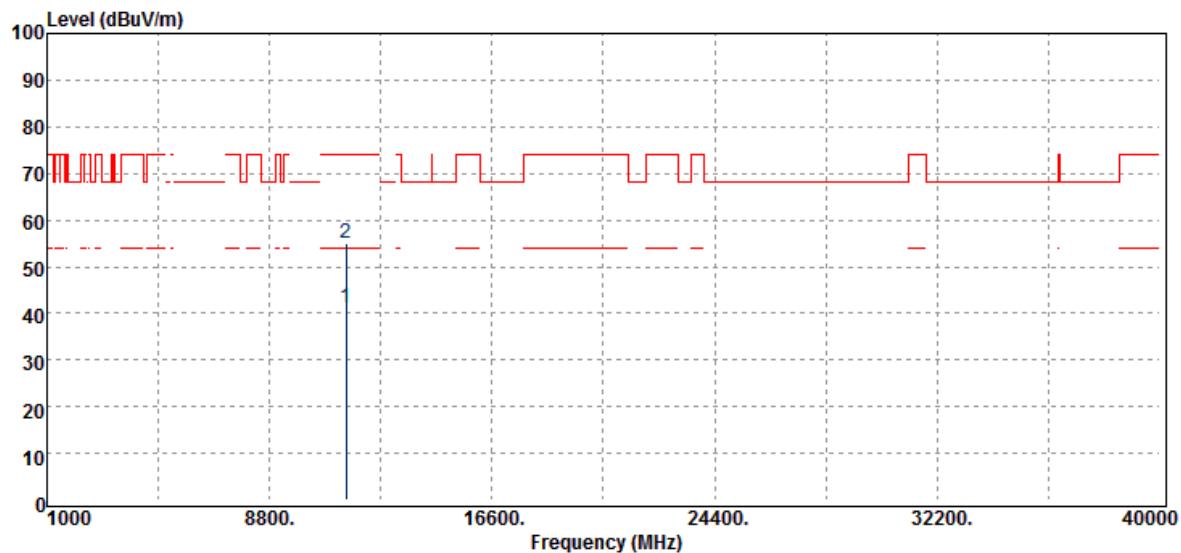
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Band :802.11n20B4 Test Date :2019-03-21
 Fundamental Frequency :5745 MHz Temp./Humi. :23 deg_C / 62 RH
 Operation Mode :Tx CH LOW Engineer :Wei
 EUT Pol. :E1 Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11490.00	Average	25.17	15.85	41.02	54.00	-12.98
11490.00	Peak	39.32	15.85	55.17	74.00	-18.83

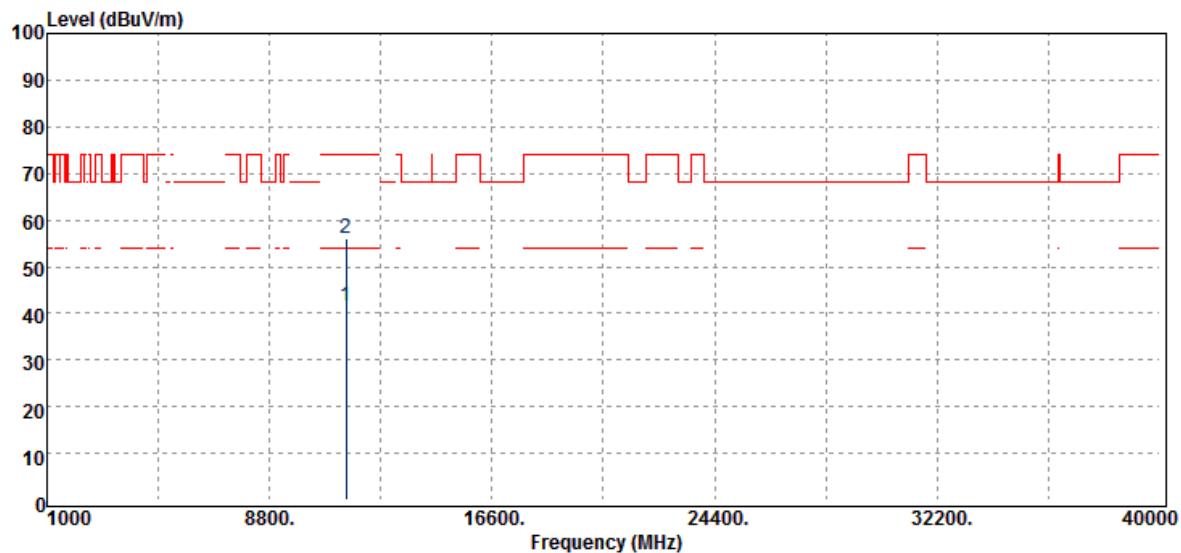
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Operation Band :802.11n20B4
 Fundamental Frequency :5745 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11490.00	Average	25.55	15.85	41.40	54.00	-12.60
11490.00	Peak	40.15	15.85	56.00	74.00	-18.00

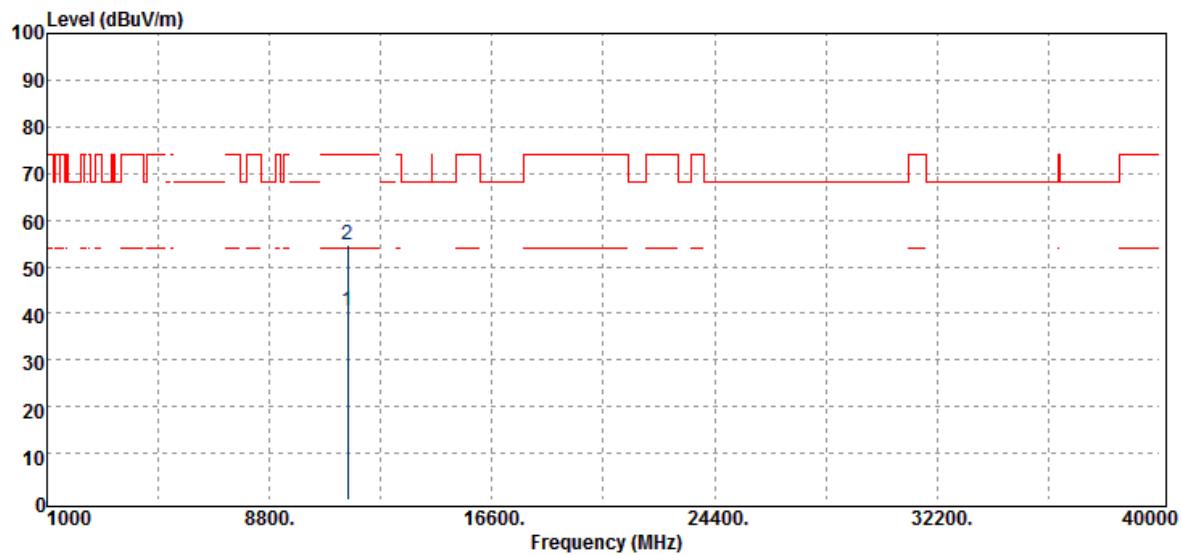
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Operation Band :802.11n20B4
 Fundamental Frequency :5785 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11530.00	Average	25.06	15.47	40.53	54.00	-13.47
11530.00	Peak	39.09	15.47	54.56	74.00	-19.44

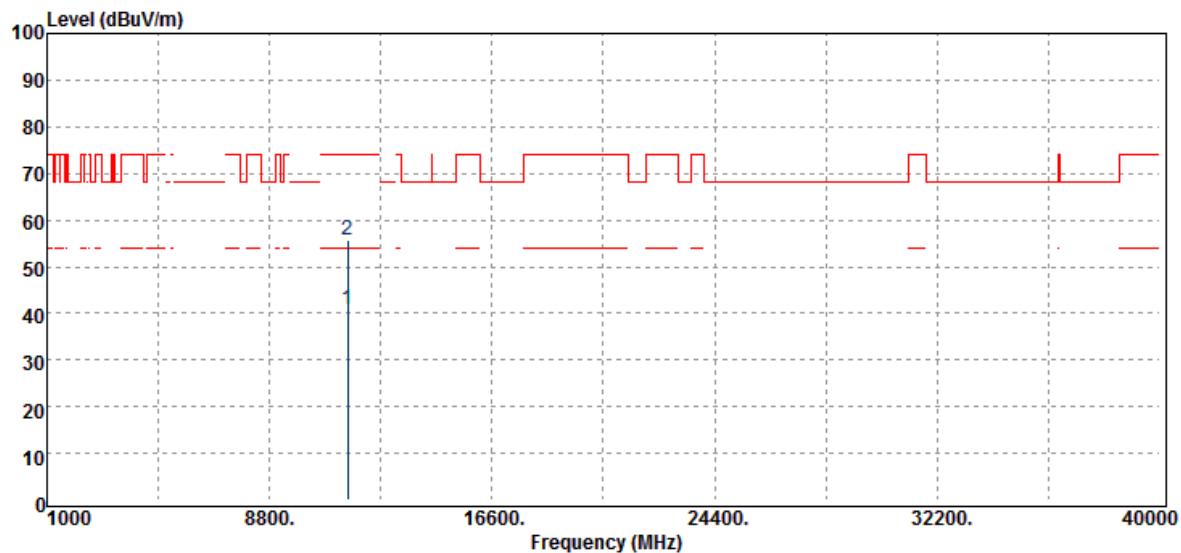
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Operation Band :802.11n20B4
 Fundamental Frequency :5785 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11530.00	Average	25.40	15.47	40.87	54.00	-13.13
11530.00	Peak	40.07	15.47	55.54	74.00	-18.46

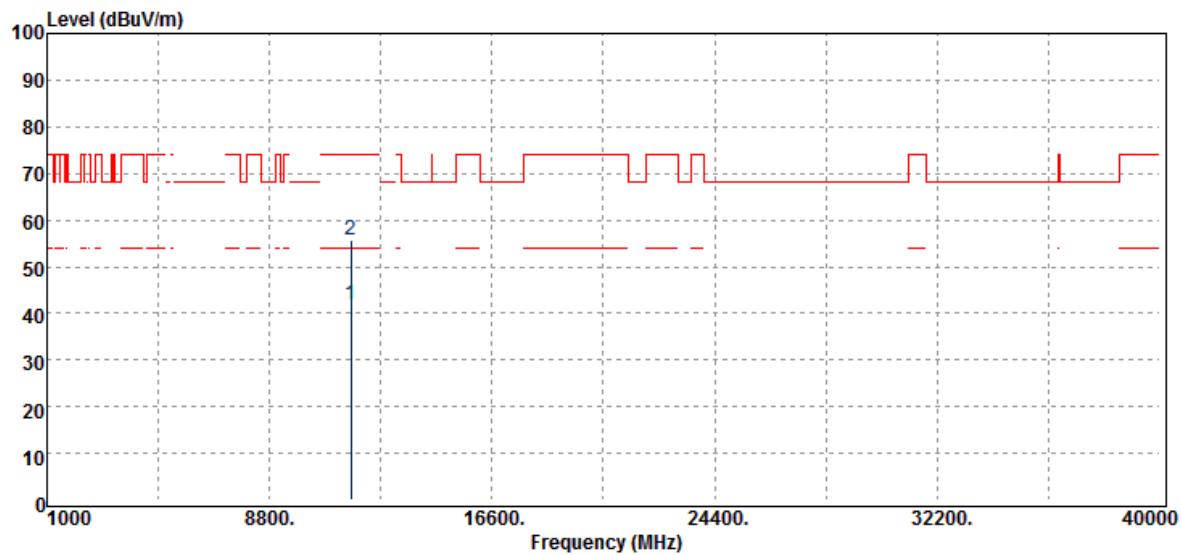
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Operation Band :802.11n20B4
 Fundamental Frequency :5825 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11650.00	Average	25.21	16.61	41.82	54.00	-12.18
11650.00	Peak	39.26	16.61	55.87	74.00	-18.13

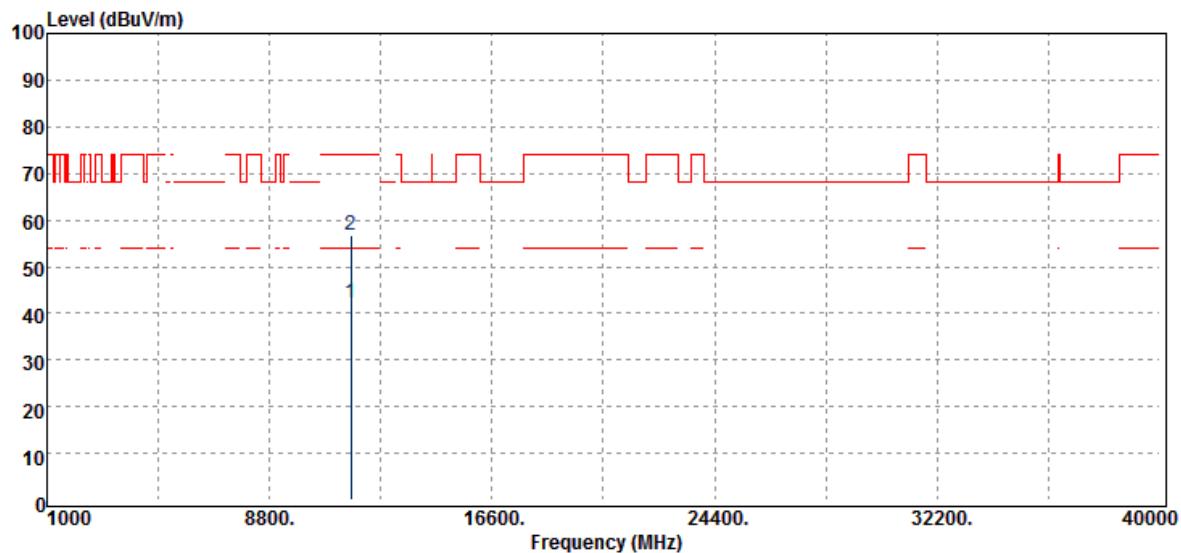
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Operation Band :802.11n20B4
 Fundamental Frequency :5825 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11650.00	Average	25.58	16.61	42.19	54.00	-11.81
11650.00	Peak	40.30	16.61	56.91	74.00	-17.09

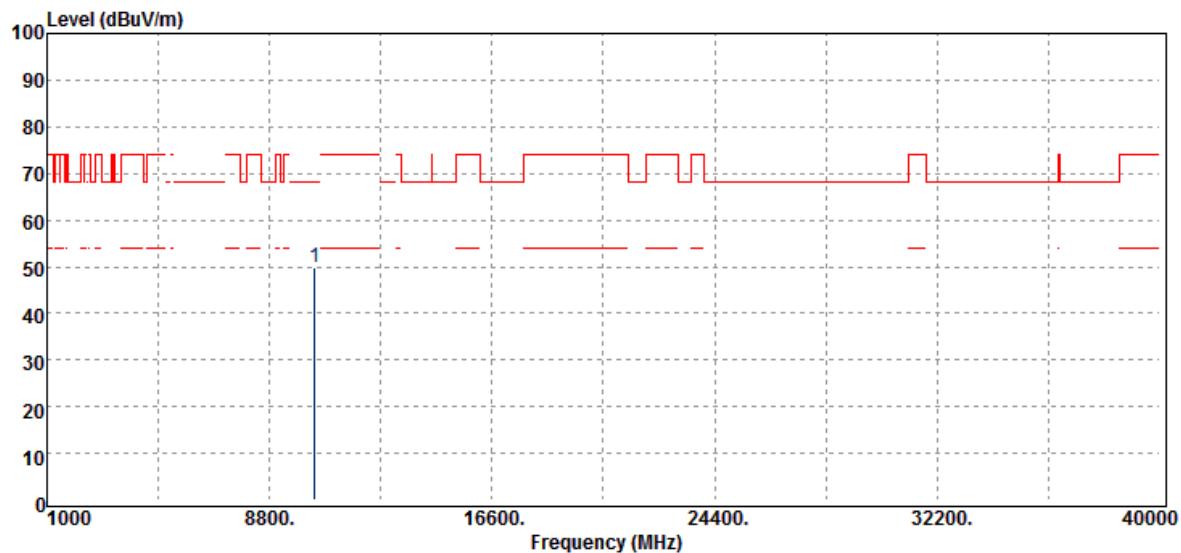
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Band	:802.11n40B1	Test Date	:2019-03-21
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
10380.00	Peak	35.13	14.58	49.71	68.20	-18.49

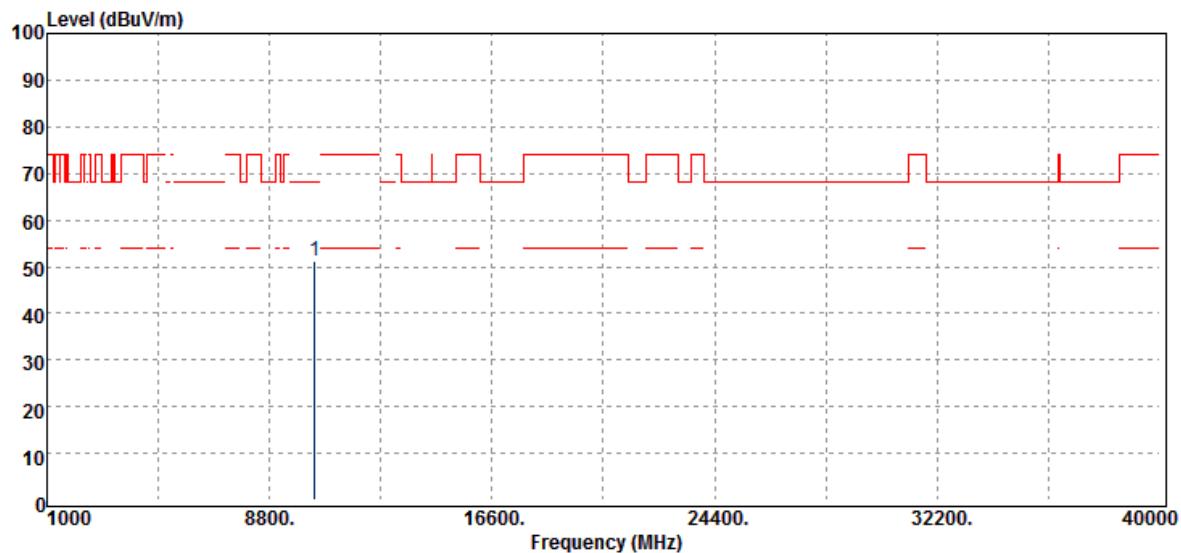
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Operation Band :802.11n40B1
Fundamental Frequency :5190 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-21
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
10380.00	Peak	36.54	14.58	51.12	68.20	-17.08

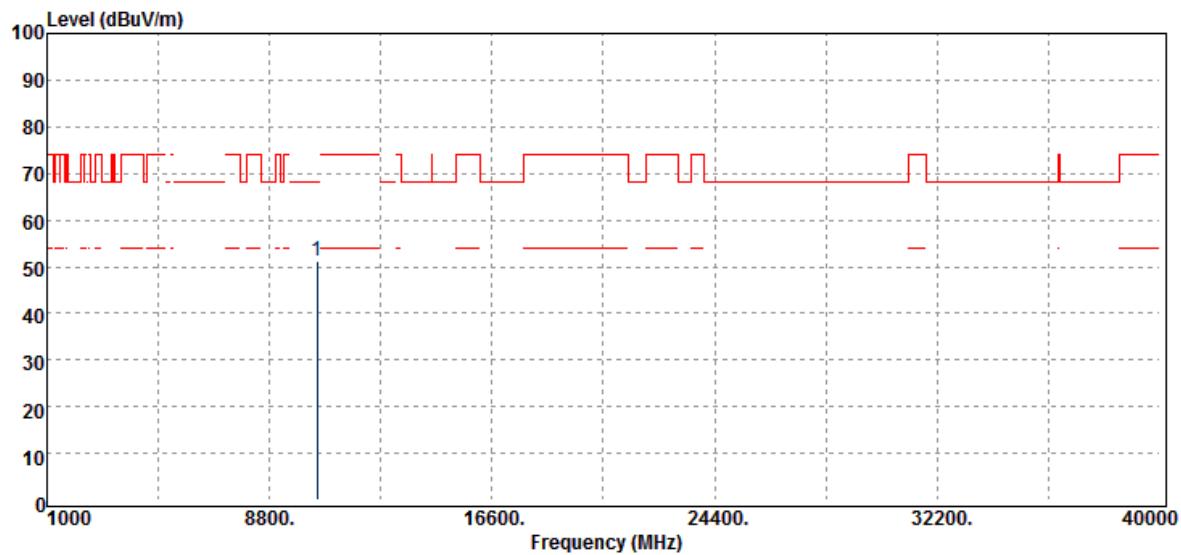
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Operation Band :802.11n40B1
 Fundamental Frequency :5230 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
10460.00	Peak	35.33	15.97	51.30	68.20	-16.90

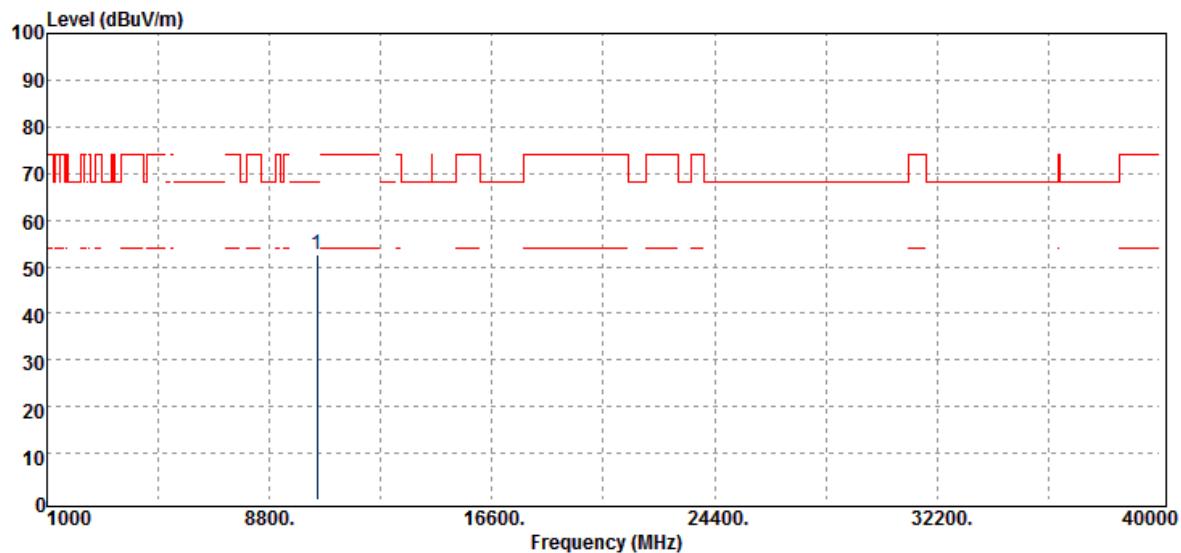
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Operation Band :802.11n40B1
Fundamental Frequency :5230 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-21
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
10460.00	Peak	36.69	15.97	52.66	68.20	-15.54

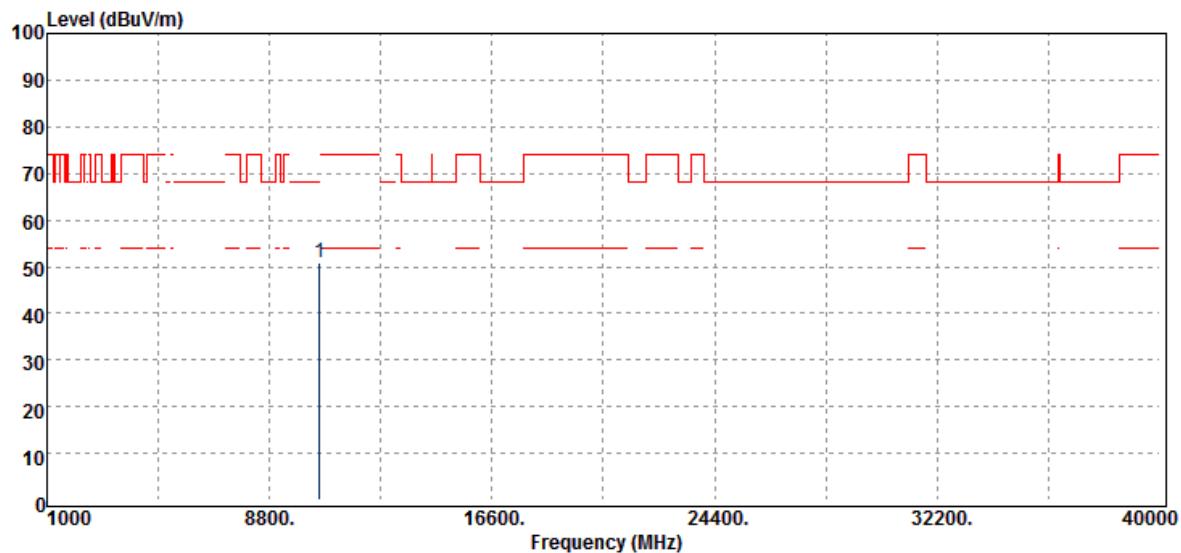
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Band	:802.11n40B2	Test Date	:2019-03-21
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
10540.00	Peak	35.08	15.67	50.75	68.20	-17.45

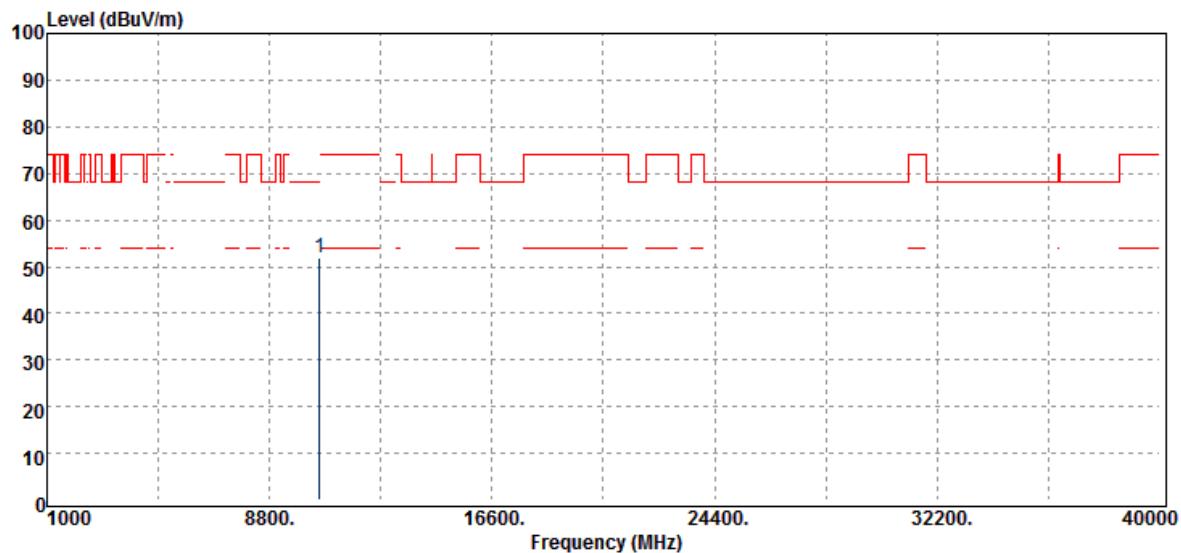
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Operation Band :802.11n40B2
Fundamental Frequency :5270 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-21
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin
10540.00	Peak	36.11	15.67	51.78	68.20	-16.42

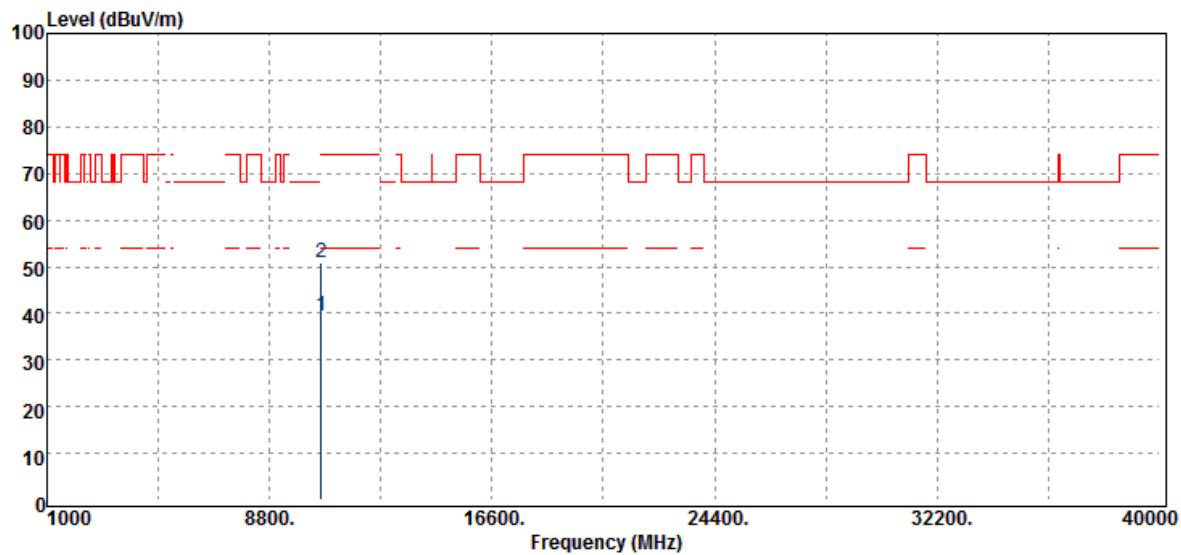
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Operation Band :802.11n40B2
 Fundamental Frequency :5310 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
10620.00	Average	23.56	15.78	39.34	54.00	-14.66
10620.00	Peak	35.24	15.78	51.02	74.00	-22.98

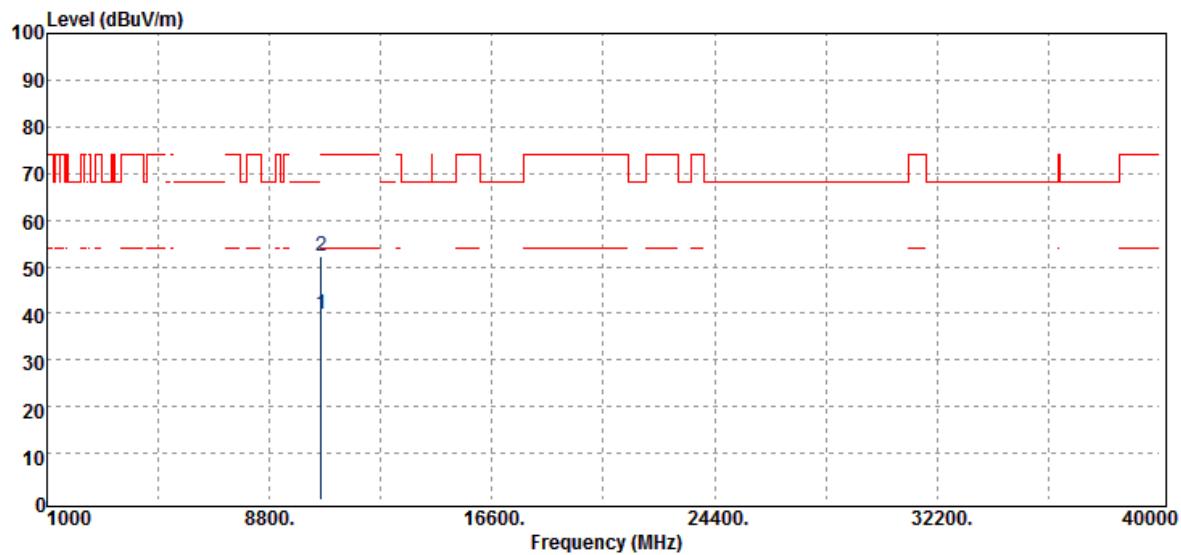
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Operation Band :802.11n40B2
 Fundamental Frequency :5310 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
10620.00	Average	24.13	15.78	39.91	54.00	-14.09
10620.00	Peak	36.53	15.78	52.31	74.00	-21.69

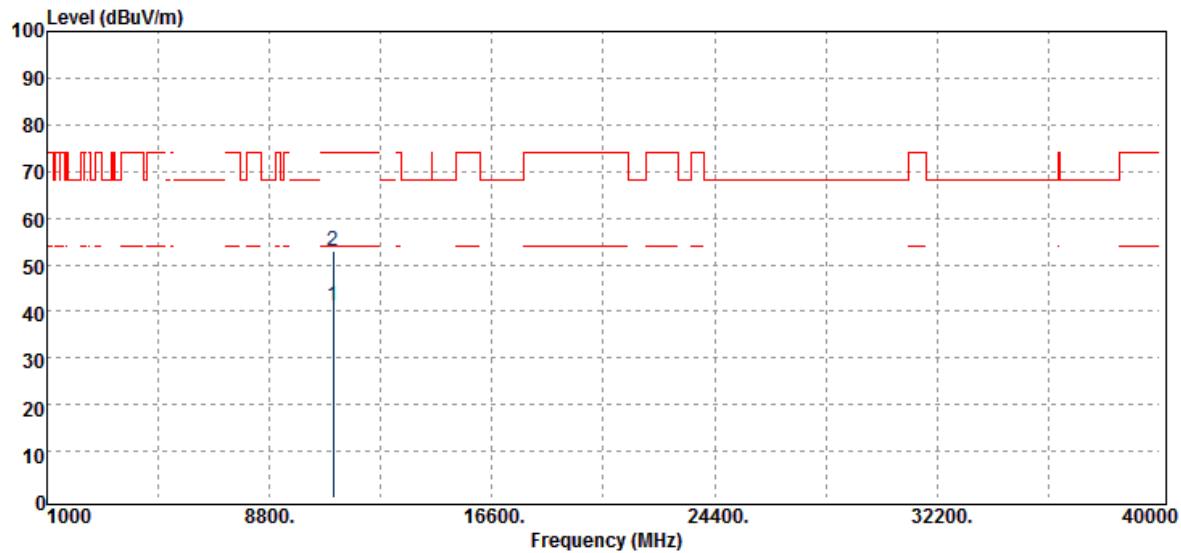
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Band : 802.11n40B3 Test Date : 2019-03-21
 Fundamental Frequency : 5510 MHz Temp./Humi. : 23 deg_C / 62 RH
 Operation Mode : Tx CH LOW Engineer : Wei
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11020.00	Average	23.32	17.87	41.19	54.00	-12.81
11020.00	Peak	35.09	17.87	52.96	74.00	-21.04

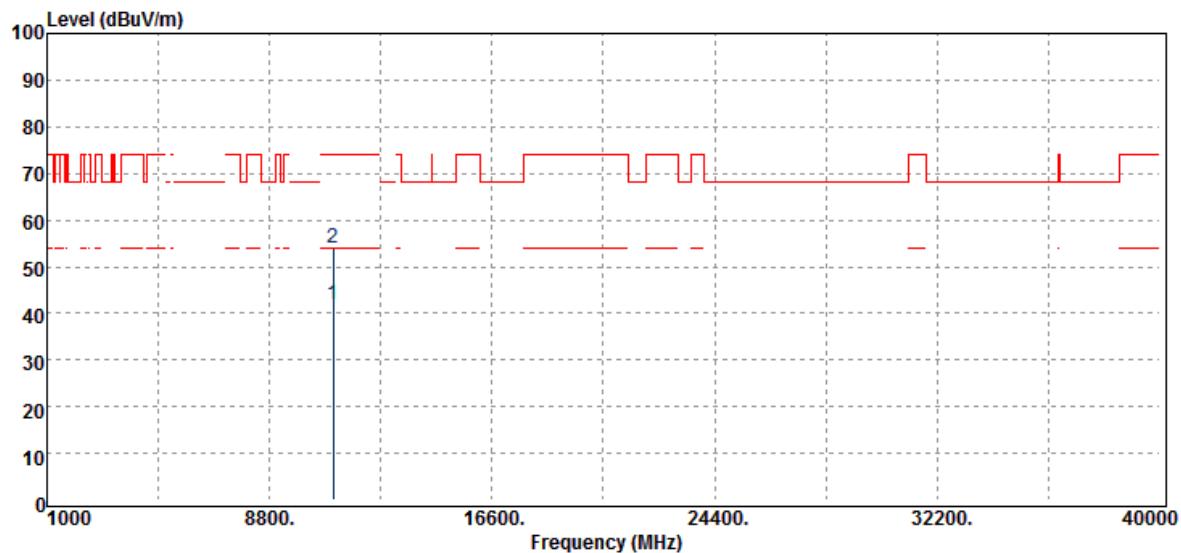
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Operation Band :802.11n40B3
 Fundamental Frequency :5510 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11020.00	Average	24.01	17.87	41.88	54.00	-12.12
11020.00	Peak	36.28	17.87	54.15	74.00	-19.85

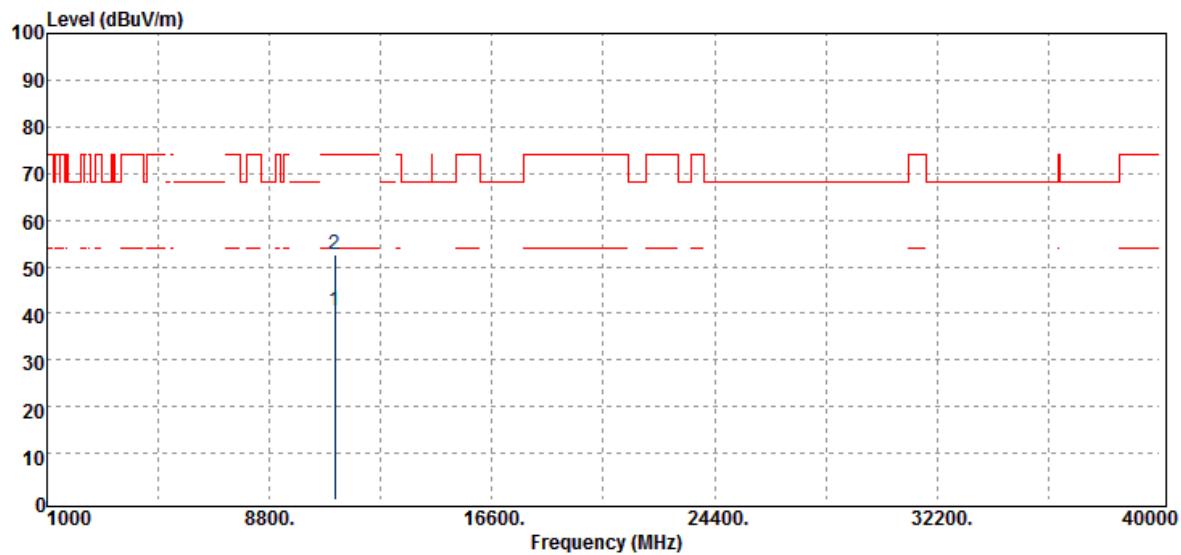
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Operation Band :802.11n40B3
 Fundamental Frequency :5550 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11100.00	Average	23.20	17.25	40.45	54.00	-13.55
11100.00	Peak	35.18	17.25	52.43	74.00	-21.57

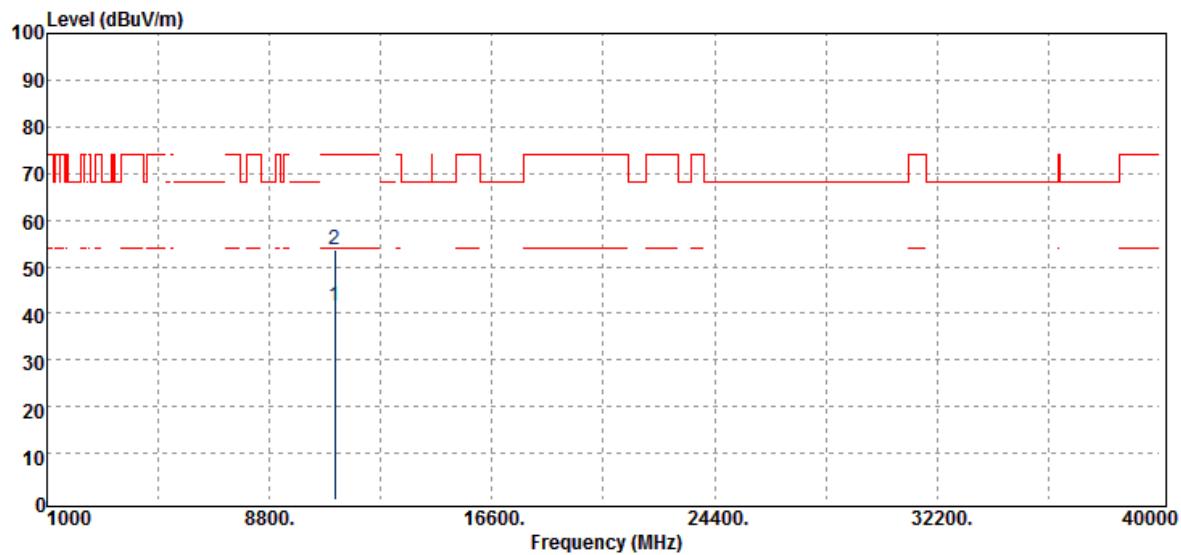
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Operation Band :802.11n40B3
 Fundamental Frequency :5550 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11100.00	Average	24.12	17.25	41.37	54.00	-12.63
11100.00	Peak	36.29	17.25	53.54	74.00	-20.46

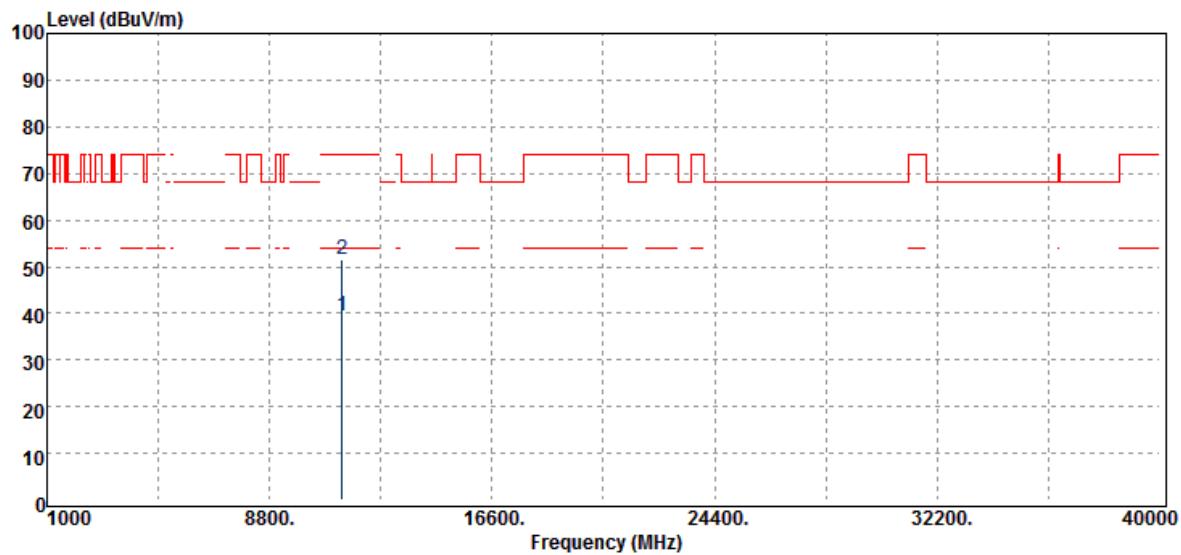
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Operation Band :802.11n40B3
 Fundamental Frequency :5670 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11340.00	Average	23.23	16.36	39.59	54.00	-14.41
11340.00	Peak	35.19	16.36	51.55	74.00	-22.45

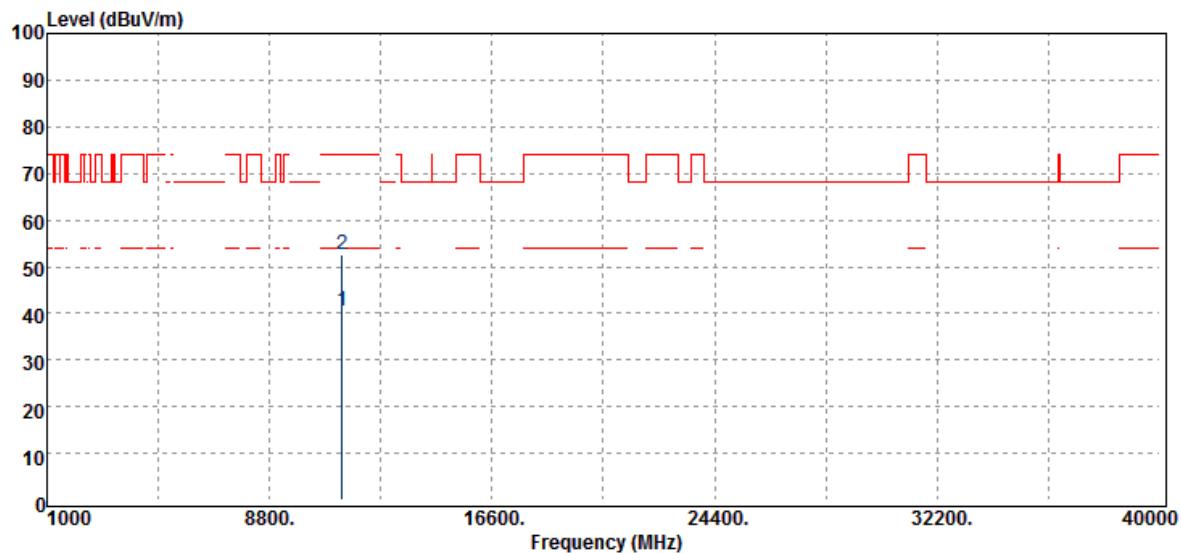
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Operation Band :802.11n40B3
 Fundamental Frequency :5670 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11340.00	Average	24.05	16.36	40.41	54.00	-13.59
11340.00	Peak	36.21	16.36	52.57	74.00	-21.43

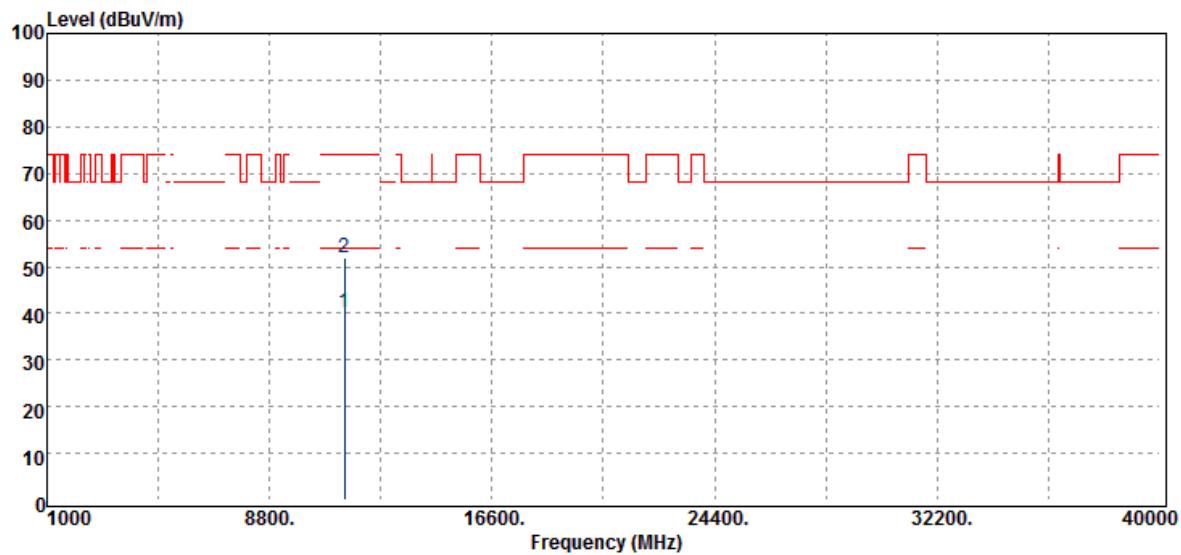
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Operation Band :802.11n40B4
 Fundamental Frequency :5710 MHz
 Operation Mode :Tx CH CH142
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11420.00	Average	23.38	16.87	40.25	54.00	-13.75
11420.00	Peak	35.06	16.87	51.93	74.00	-22.07

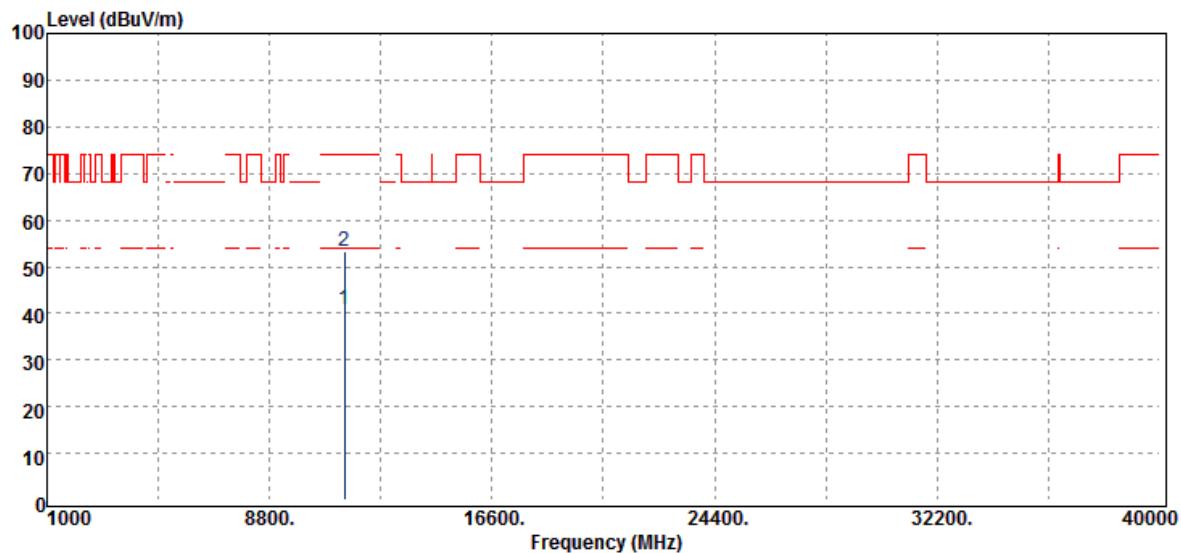
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Operation Band :802.11n40B4
 Fundamental Frequency :5710 MHz
 Operation Mode :Tx CH CH142
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11420.00	Average	24.07	16.87	40.94	54.00	-13.06
11420.00	Peak	36.36	16.87	53.23	74.00	-20.77

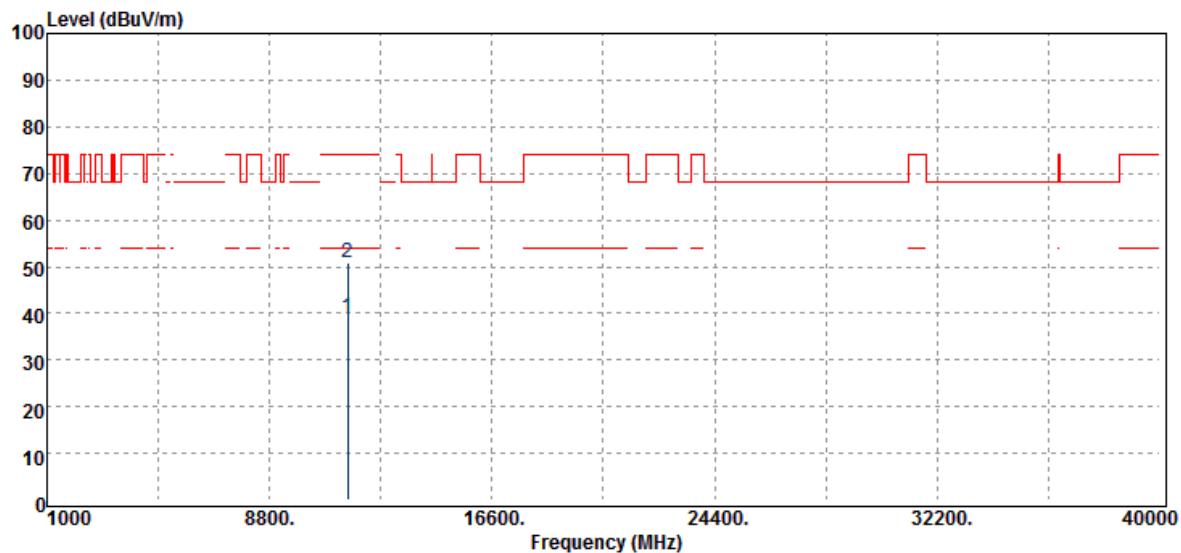
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Band :802.11n40B4 Test Date :2019-03-21
 Fundamental Frequency :5755 MHz Temp./Humi. :23 deg_C / 62 RH
 Operation Mode :Tx CH LOW Engineer :Wei
 EUT Pol. :E1 Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11550.00	Average	23.18	15.82	39.00	54.00	-15.00
11550.00	Peak	35.16	15.82	50.98	74.00	-23.02

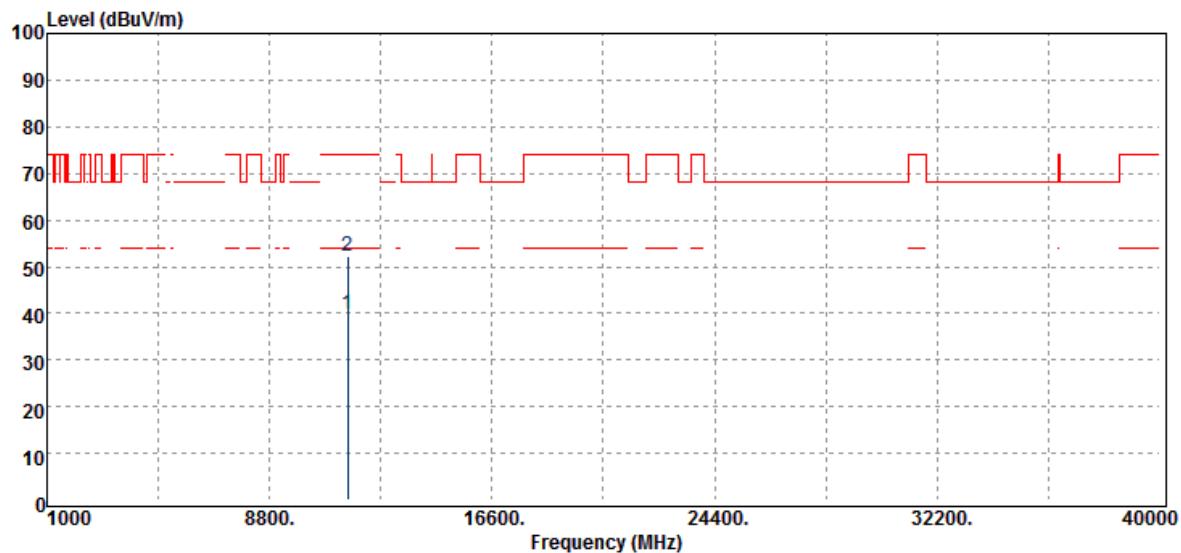
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Operation Band :802.11n40B4
 Fundamental Frequency :5755 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11550.00	Average	24.09	15.82	39.91	54.00	-14.09
11550.00	Peak	36.37	15.82	52.19	74.00	-21.81

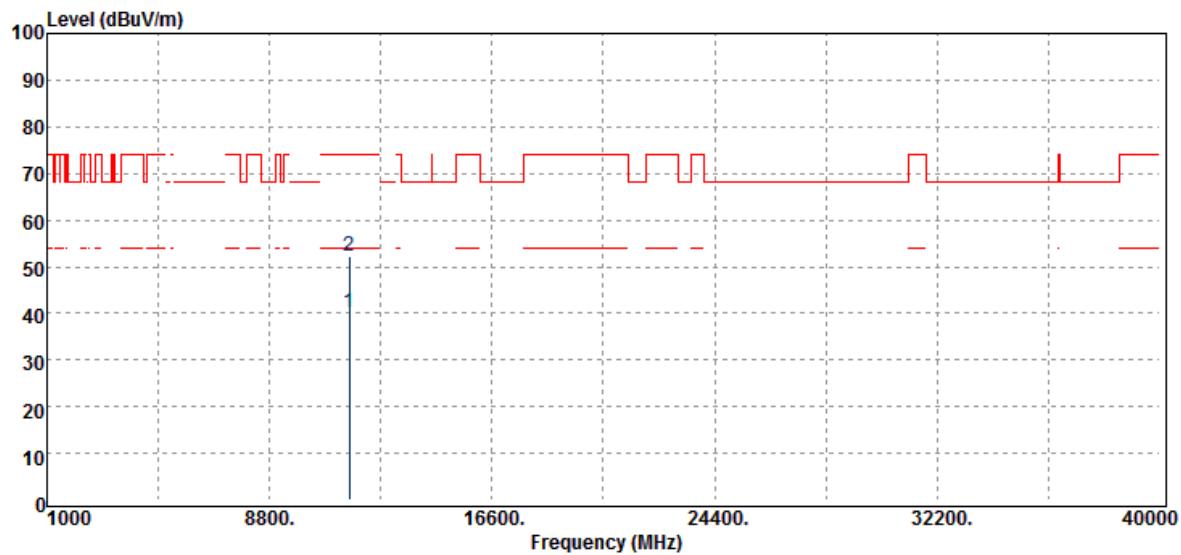
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Operation Band :802.11n40B4
 Fundamental Frequency :5795 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11590.00	Average	23.29	16.81	40.10	54.00	-13.90
11590.00	Peak	35.33	16.81	52.14	74.00	-21.86

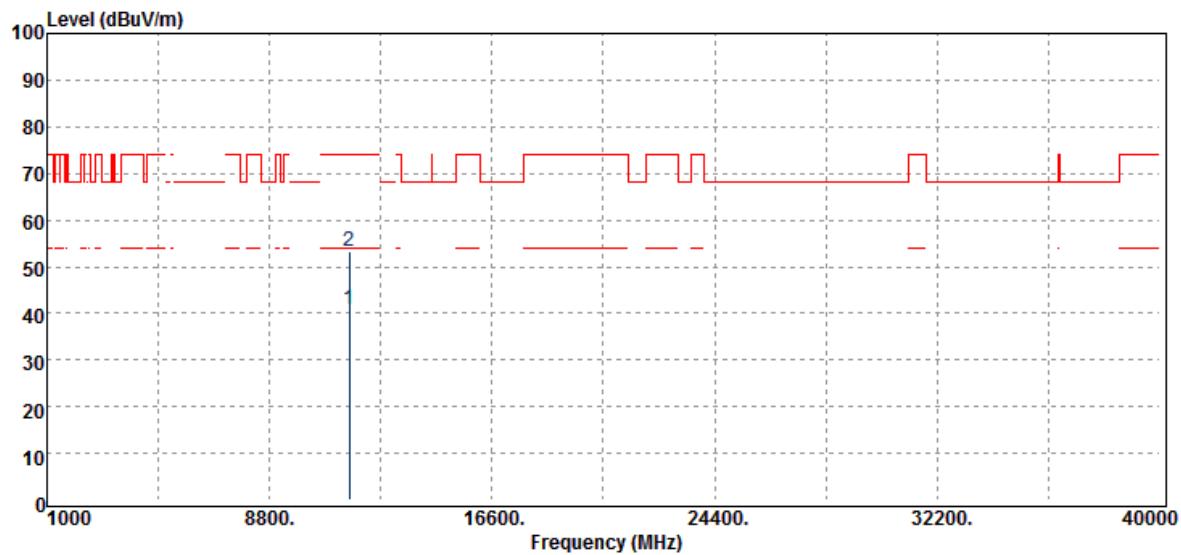
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Operation Band :802.11n40B4
 Fundamental Frequency :5795 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11590.00	Average	24.15	16.81	40.96	54.00	-13.04
11590.00	Peak	36.37	16.81	53.18	74.00	-20.82

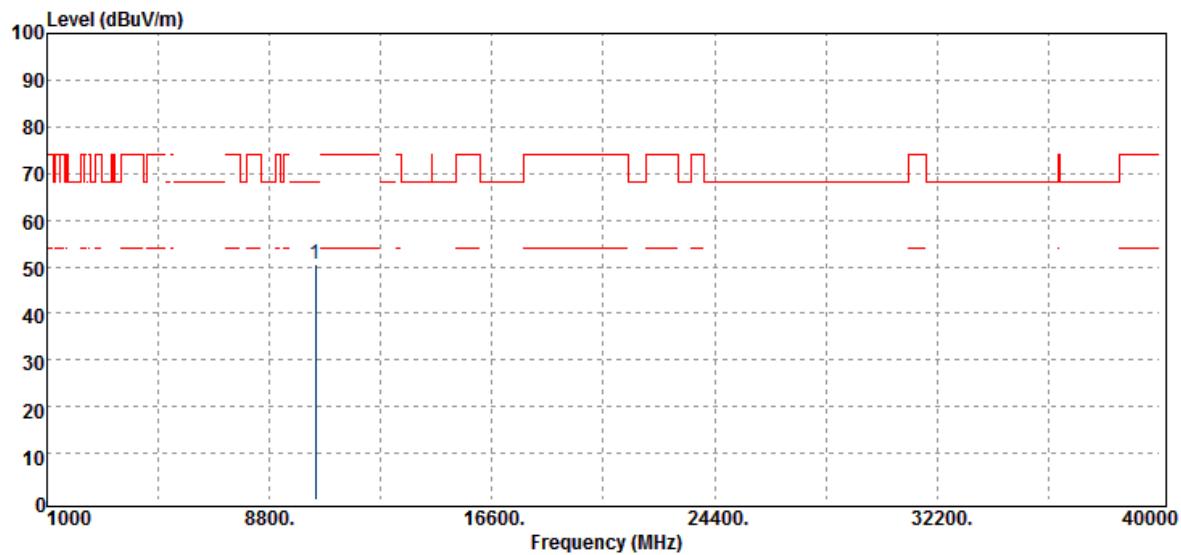
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Band :802.11ac80B1 Test Date :2019-03-21
 Fundamental Frequency :5210 MHz Temp./Humi. :23 deg_C / 62 RH
 Operation Mode :Tx CH LOW Engineer :Wei
 EUT Pol. :E1 Plane Measurement Antenna Pol. :VERTICAL



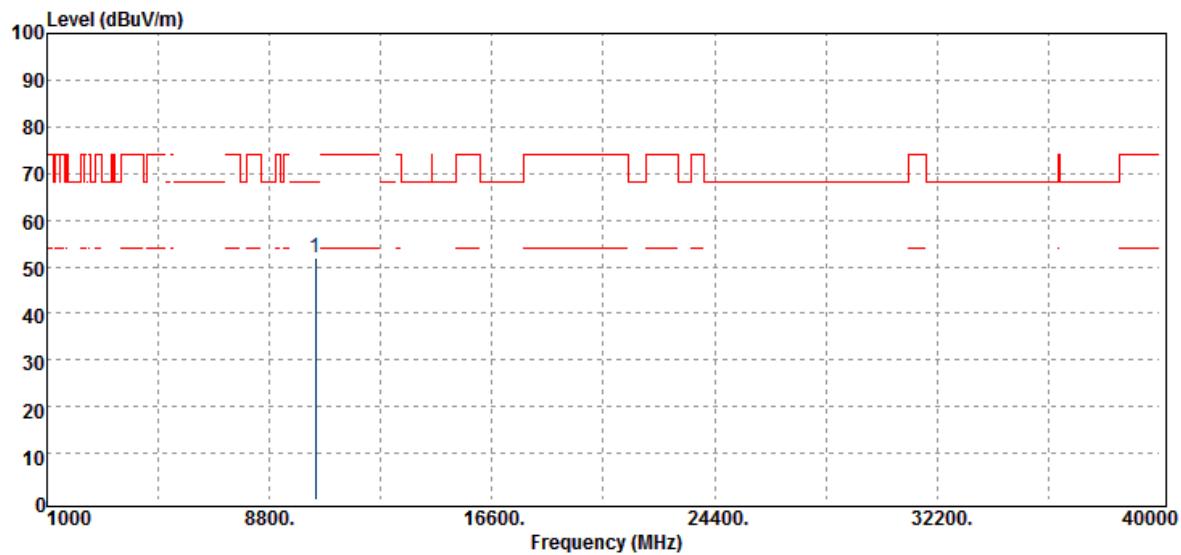
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
10420.00	Peak	35.33	15.12	50.45	68.20	-17.75

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Operation Band :802.11ac80B1
Fundamental Frequency :5210 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E1 Plane
Test Date :2019-03-21
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
10420.00	Peak	36.74	15.12	51.86	68.20	-16.34

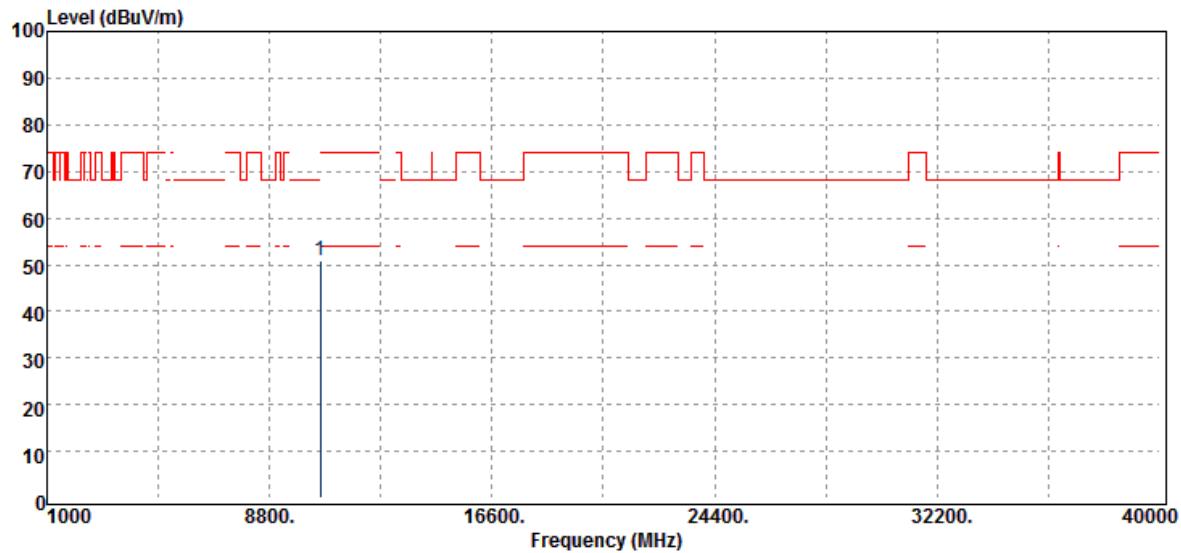
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Band	:802.11ac80B2	Test Date	:2019-03-21
Fundamental Frequency	:5290 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



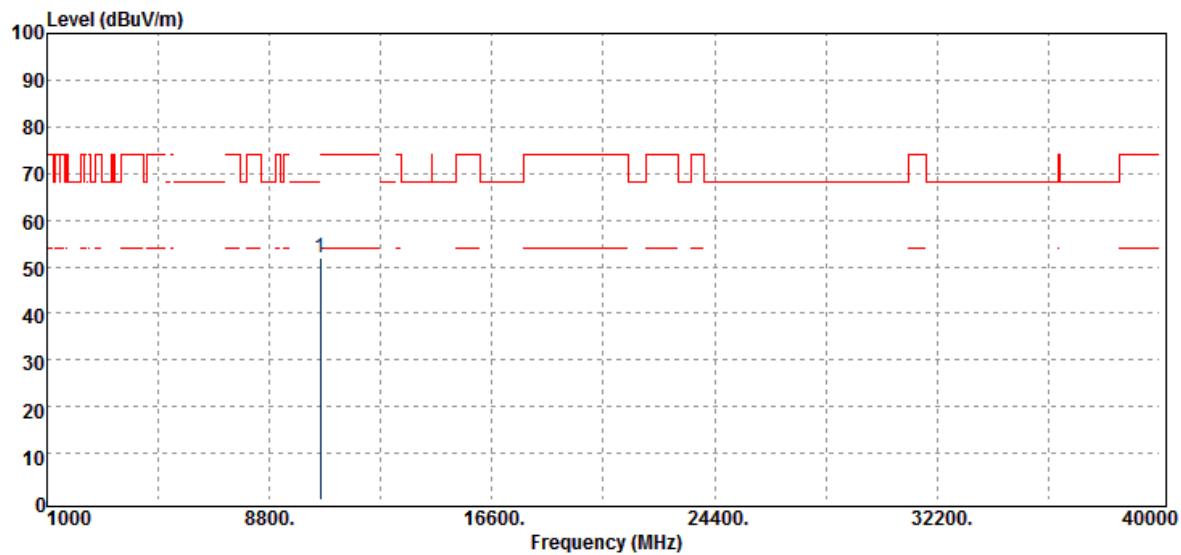
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin
10580.00	Peak	35.34	15.43	50.77	68.20	-17.43

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Operation Band :802.11ac80B2
Fundamental Frequency :5290 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E1 Plane
Test Date :2019-03-21
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin
10580.00	Peak	36.60	15.43	52.03	68.20	-16.17

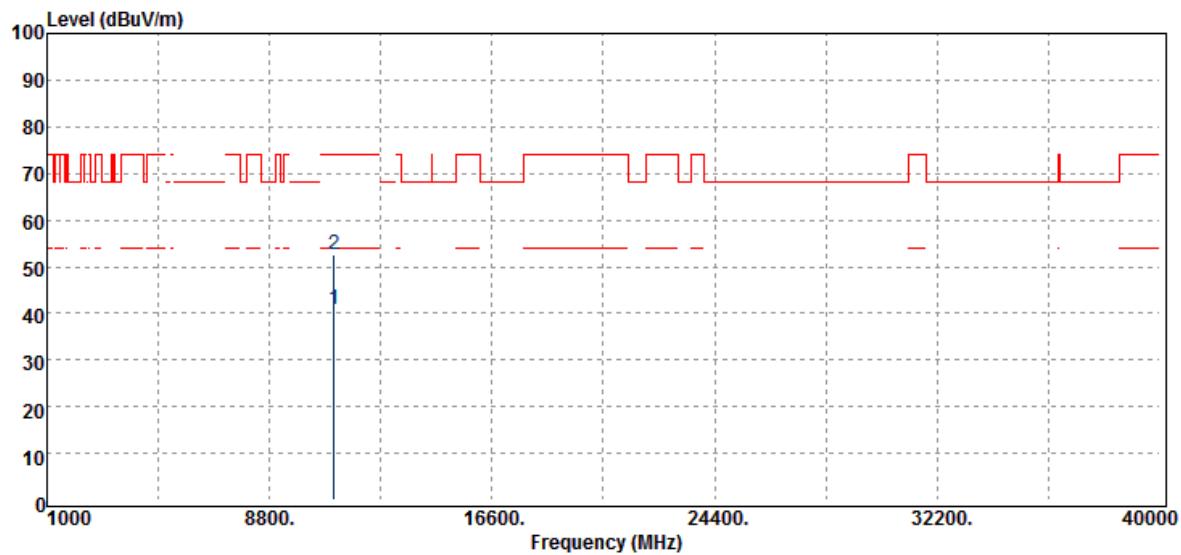
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Band :802.11ac80B3 Test Date :2019-03-21
 Fundamental Frequency :5530 MHz Temp./Humi. :23 deg_C / 62 RH
 Operation Mode :Tx CH LOW Engineer :Wei
 EUT Pol. :E1 Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11060.00	Average	23.28	17.50	40.78	54.00	-13.22
11060.00	Peak	35.25	17.50	52.75	74.00	-21.25

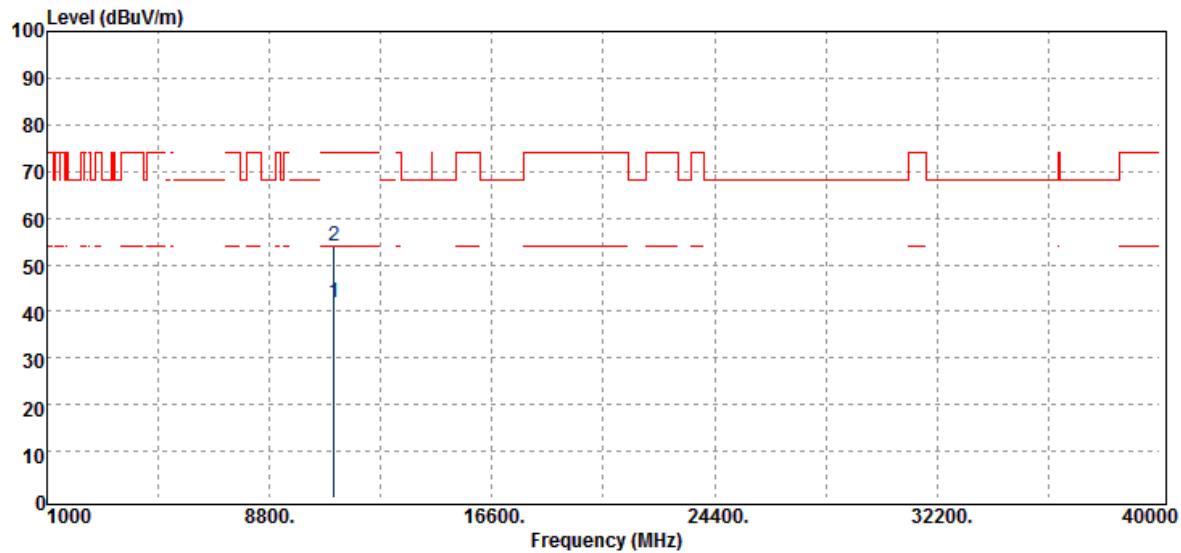
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Operation Band :802.11ac80B3
 Fundamental Frequency :5530 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11060.00	Average	24.23	17.50	41.73	54.00	-12.27
11060.00	Peak	36.37	17.50	53.87	74.00	-20.13

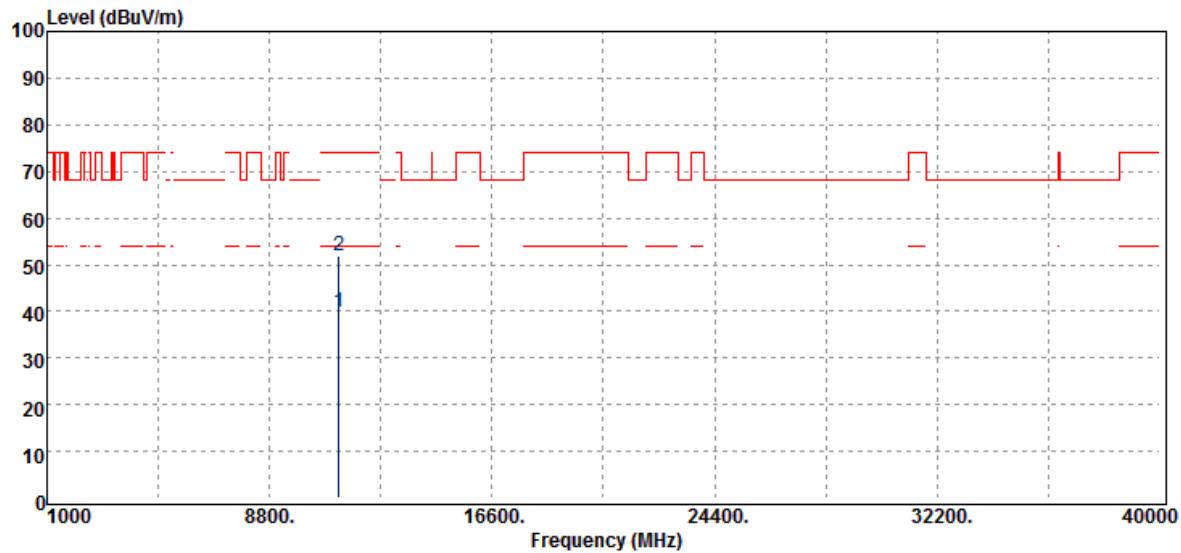
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Operation Band :802.11ac80B3
 Fundamental Frequency :5610 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11220.00	Average	23.31	16.53	39.84	54.00	-14.16
11220.00	Peak	35.39	16.53	51.92	74.00	-22.08

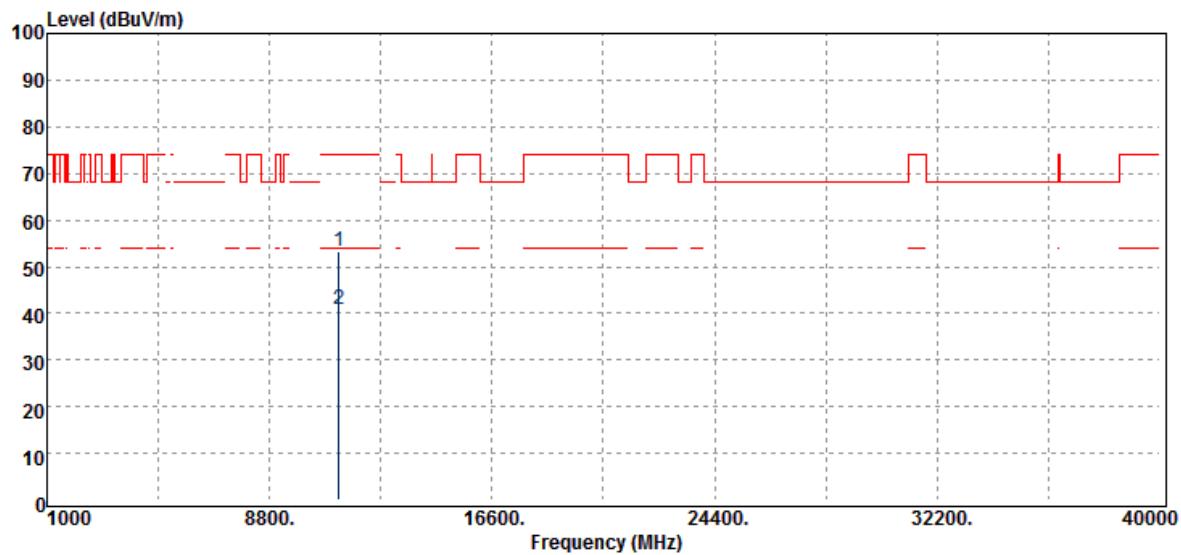
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Operation Band :802.11ac80B3
 Fundamental Frequency :5610 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11220.00	Peak	36.61	16.53	53.14	74.00	-20.86
11220.00	QP	24.28	16.53	40.81	74.00	-33.19

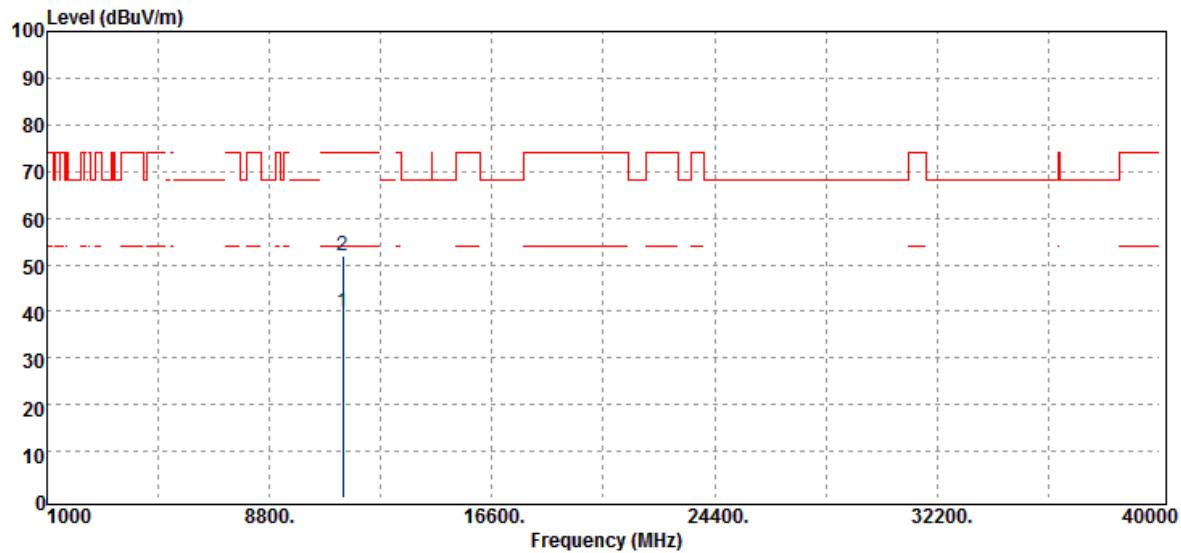
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Operation Band :802.11ac80B3
 Fundamental Frequency :5690 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11380.00	Average	23.37	16.48	39.85	54.00	-14.15
11380.00	Peak	35.29	16.48	51.77	74.00	-22.23

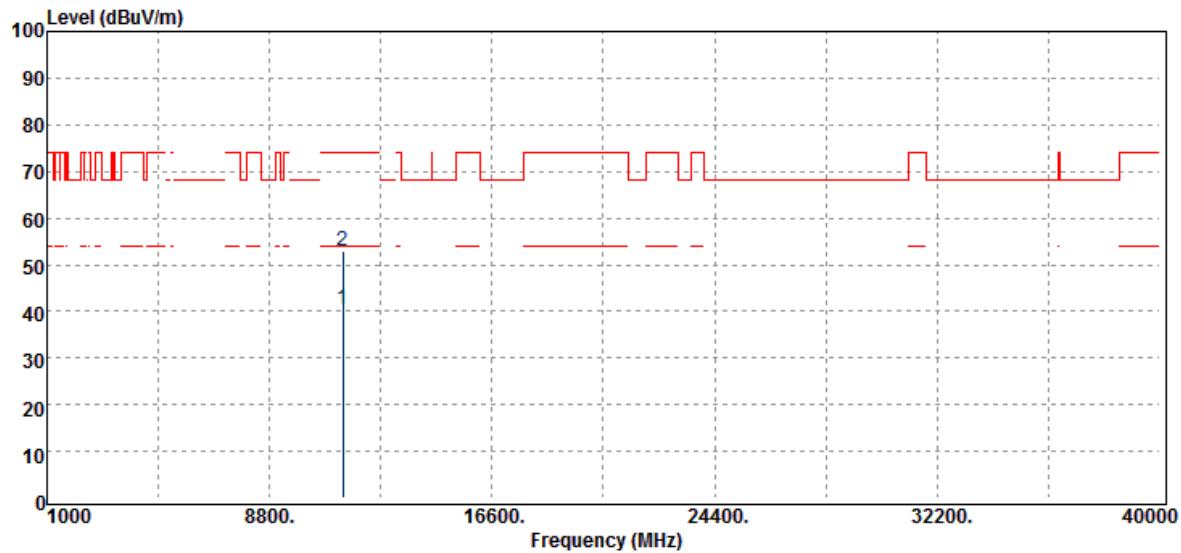
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Operation Band :802.11ac80B3
 Fundamental Frequency :5690 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
11380.00	Average	24.13	16.48	40.61	54.00	-13.39
11380.00	Peak	36.57	16.48	53.05	74.00	-20.95

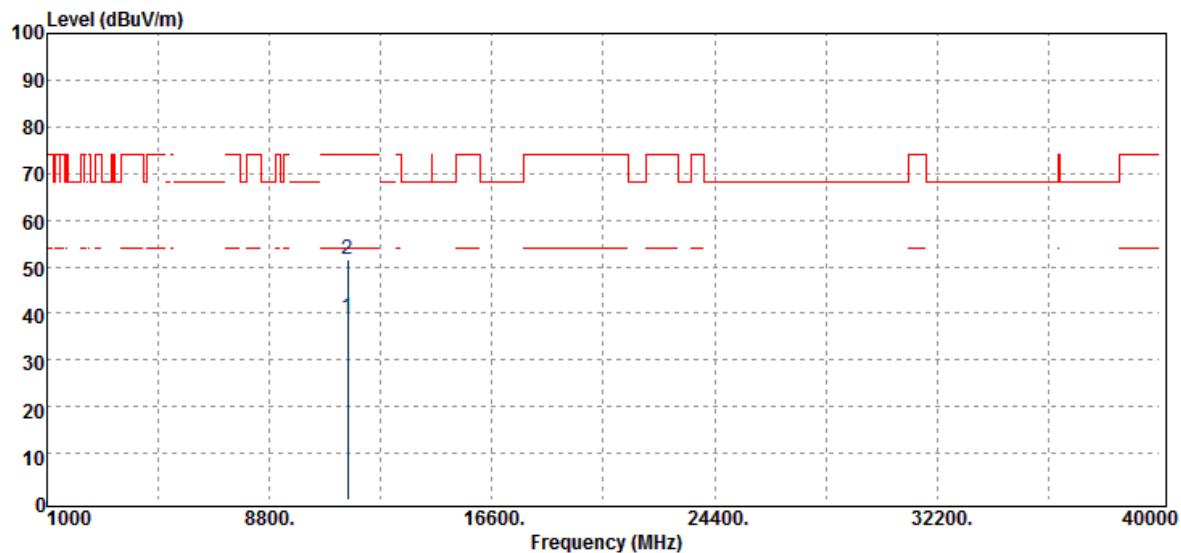
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Band :802.11ac80B4 Test Date :2019-03-21
 Fundamental Frequency :5775 MHz Temp./Humi. :23 deg_C / 62 RH
 Operation Mode :Tx CH LOW Engineer :Wei
 EUT Pol. :E1 Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11550.00	Average	23.38	15.82	39.20	54.00	-14.80
11550.00	Peak	35.68	15.82	51.50	74.00	-22.50

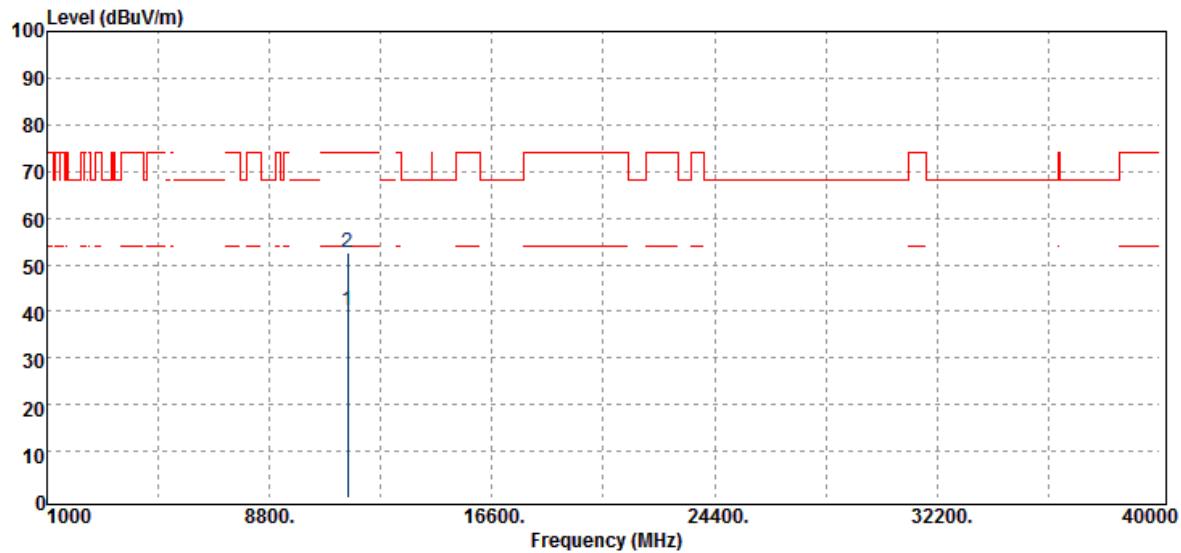
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Operation Band :802.11ac80B4
 Fundamental Frequency :5775 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-21
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11550.00	Average	24.16	15.82	39.98	54.00	-14.02
11550.00	Peak	36.71	15.82	52.53	74.00	-21.47

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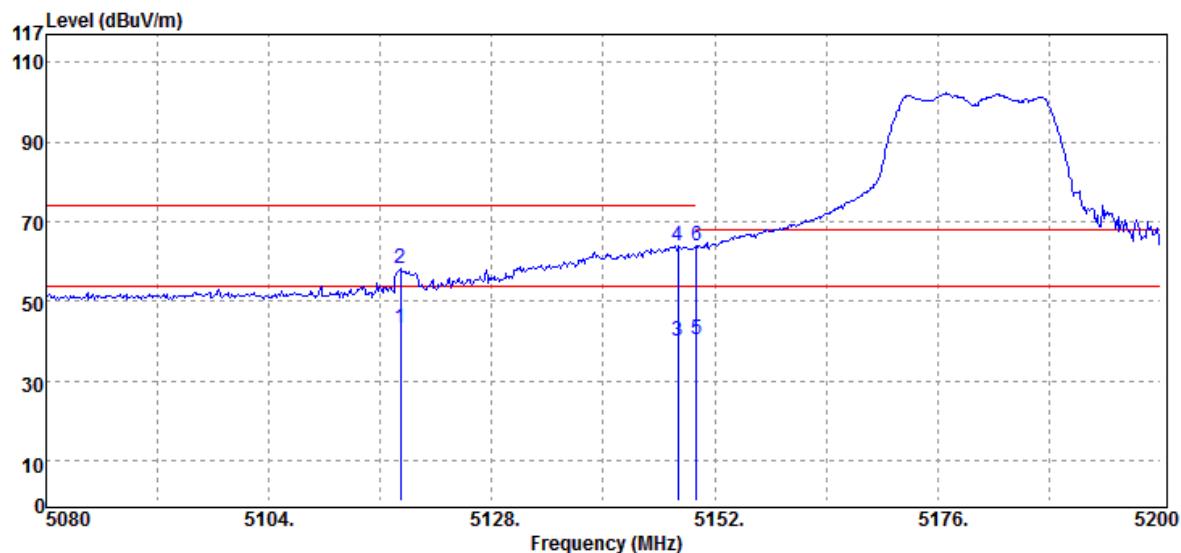
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Band edge falling to restricted band**802.11a mode**

Operation Band :802.11aB1
 Fundamental Frequency :5180 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5118.16	Average	38.55	4.75	43.30	54.00	-10.70
5118.16	Peak	53.67	4.75	58.42	74.00	-15.58
5148.04	Average	35.58	4.55	40.13	54.00	-13.87
5148.04	Peak	59.34	4.55	63.89	74.00	-10.11
5150.00	Average	36.09	4.55	40.64	54.00	-13.36
5150.00	Peak	59.60	4.55	64.15	74.00	-9.85

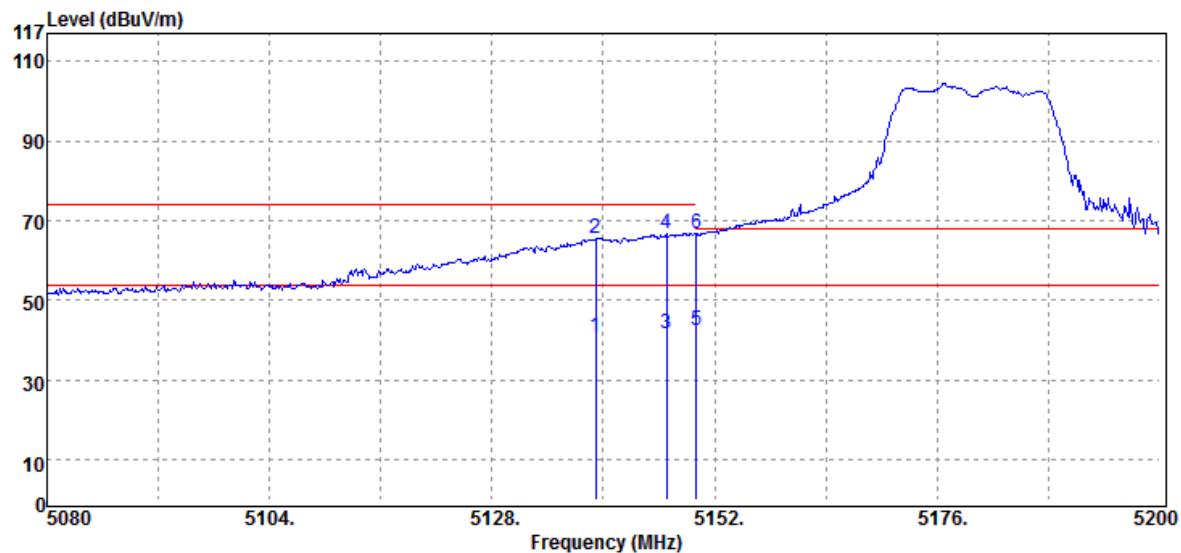
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Operation Band :802.11aB1
 Fundamental Frequency :5180 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5139.16	Average	36.32	4.56	40.88	54.00	-13.12
5139.16	Peak	60.94	4.56	65.50	74.00	-8.50
5146.84	Average	37.29	4.55	41.84	54.00	-12.16
5146.84	Peak	62.29	4.55	66.84	74.00	-7.16
5150.00	Average	37.94	4.55	42.49	54.00	-11.51
5150.00	Peak	62.15	4.55	66.70	74.00	-7.30

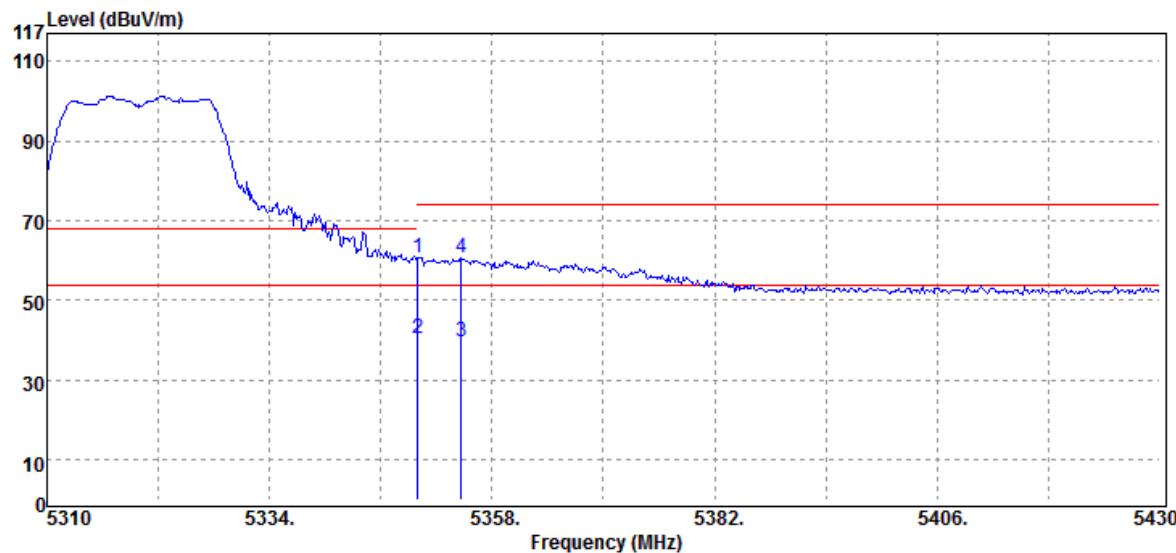
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Operation Band :802.11aB2
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Peak	55.68	5.19	60.87	74.00	-13.13
5350.00	Peak	35.22	5.19	40.41	74.00	-33.59
5354.64	Average	34.57	5.21	39.78	54.00	-14.22
5354.64	Peak	55.53	5.21	60.74	74.00	-13.26

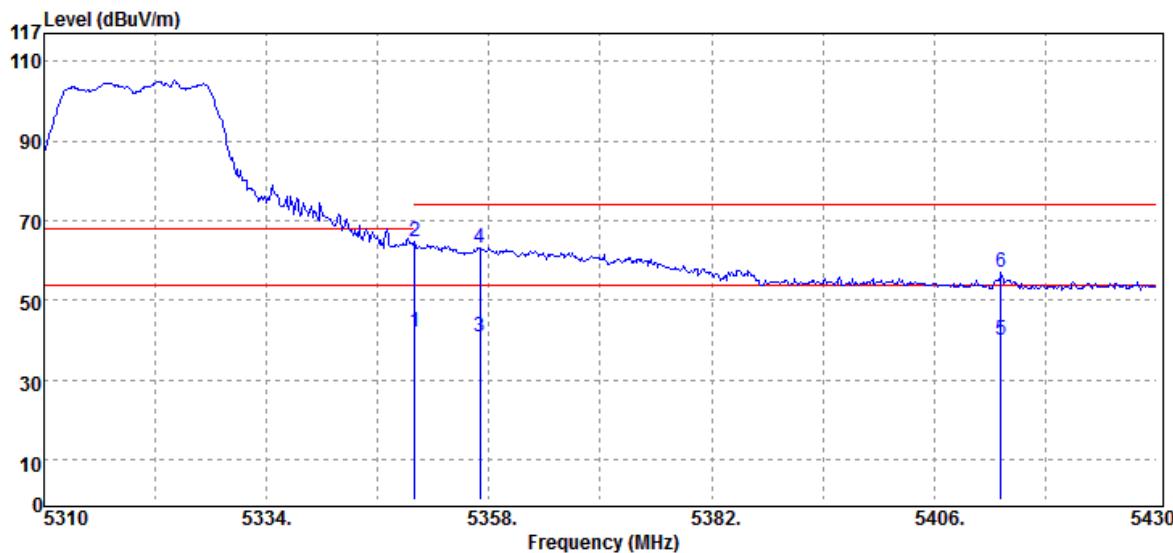
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Operation Band :802.11aB2
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin
5350.00	Average	37.02	5.19	42.21	54.00	-11.79
5350.00	Peak	59.48	5.19	64.67	74.00	-9.33
5357.04	Average	35.71	5.21	40.92	54.00	-13.08
5357.04	Peak	57.93	5.21	63.14	74.00	-10.86
5413.20	Average	34.36	5.63	39.99	54.00	-14.01
5413.20	Peak	51.43	5.63	57.06	74.00	-16.94

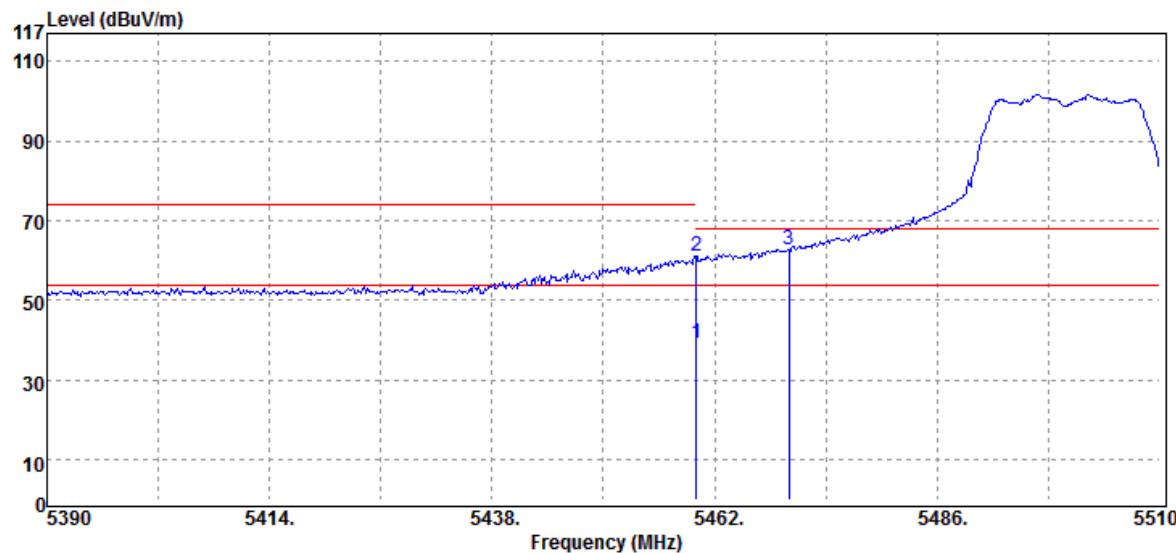
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Operation Band :802.11aB3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
5460.00	Average	33.89	5.54	39.43	54.00	-14.57
5460.00	Peak	55.65	5.54	61.19	74.00	-12.81
5470.00	Peak	57.05	5.52	62.57	68.20	-5.63

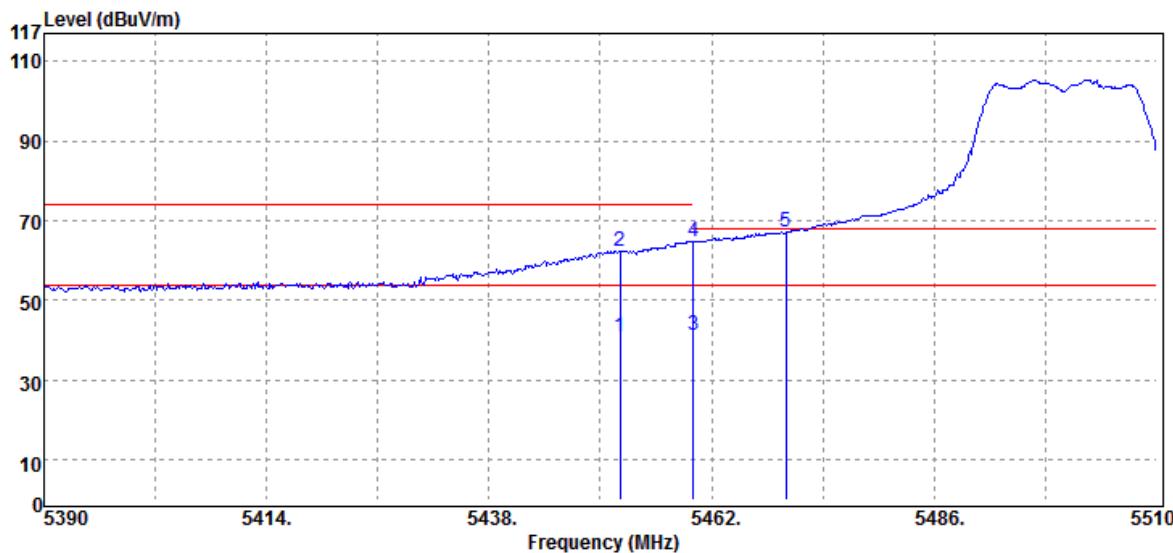
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Operation Band :802.11aB3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5452.16	Average	35.18	5.56	40.74	54.00	-13.26
5452.16	Peak	56.94	5.56	62.50	74.00	-11.50
5460.00	Average	35.89	5.54	41.43	54.00	-12.57
5460.00	Peak	59.17	5.54	64.71	74.00	-9.29
5470.00	Peak	61.65	5.52	67.17	68.20	-1.03

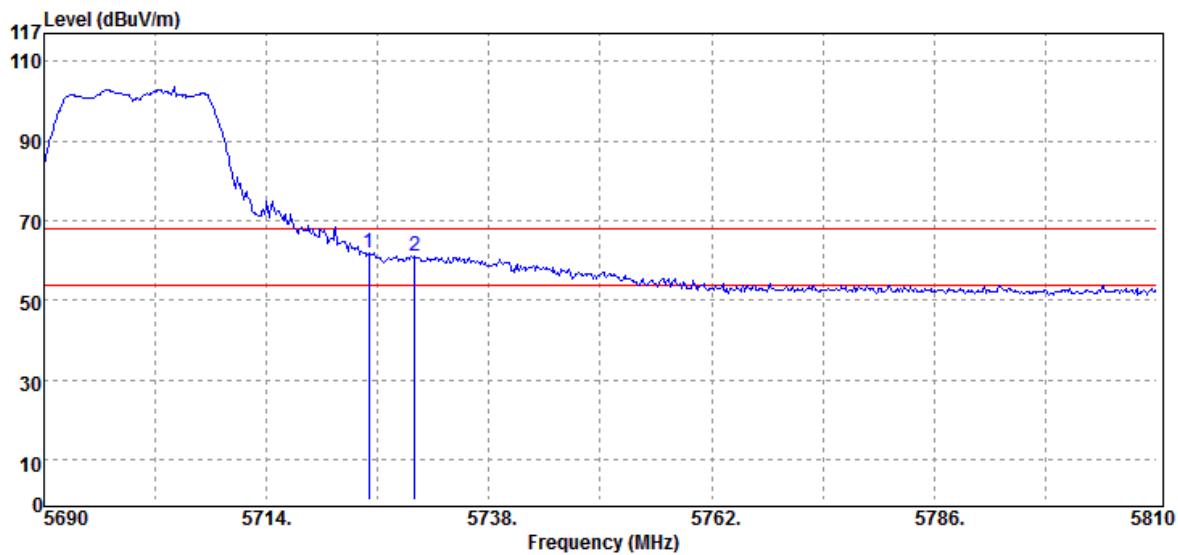
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Operation Band :802.11aB3
 Fundamental Frequency :5700 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
5725.00	Peak	55.22	6.55	61.77	68.20	-6.43
5729.96	Peak	54.46	6.53	60.99	68.20	-7.21

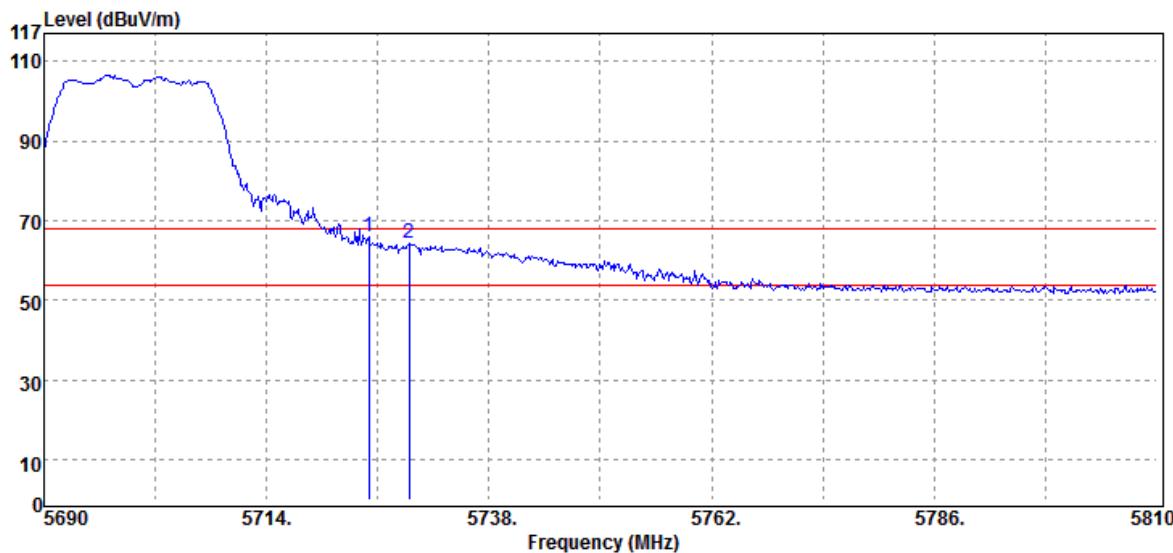
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Operation Band :802.11aB3
 Fundamental Frequency :5700 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
5725.00	Peak	59.39	6.55	65.94	68.20	-2.26
5729.36	Peak	57.65	6.53	64.18	68.20	-4.02

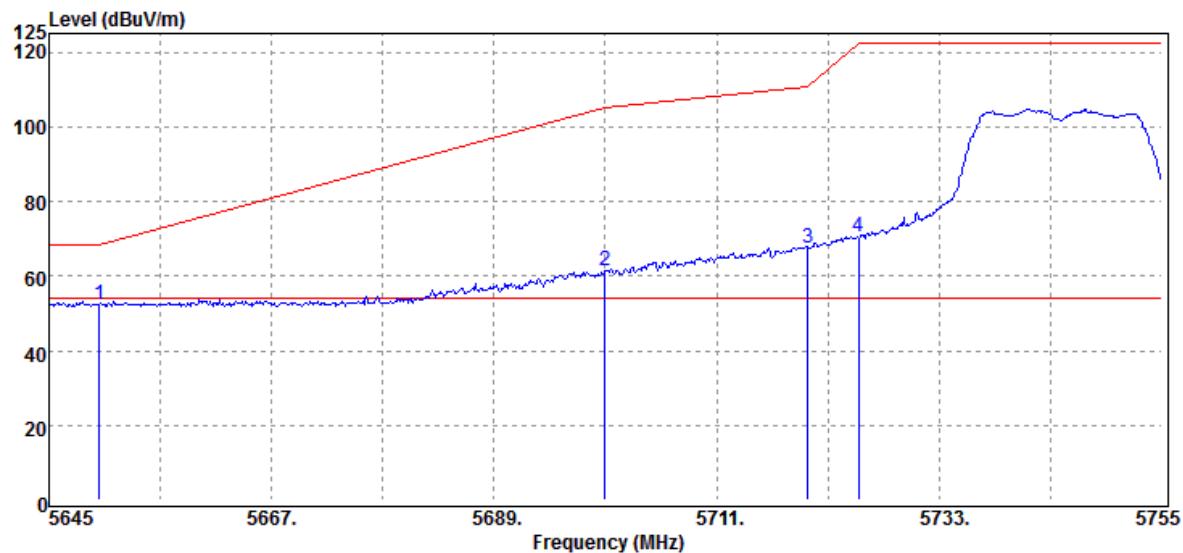
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Operation Band :802.11aB4
 Fundamental Frequency :5745 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	46.28	5.91	52.19	68.23	-16.04
5700.00	Peak	54.84	6.43	61.27	105.23	-43.96
5720.00	Peak	61.04	6.55	67.59	110.83	-43.24
5725.00	Peak	64.02	6.55	70.57	122.23	-51.66

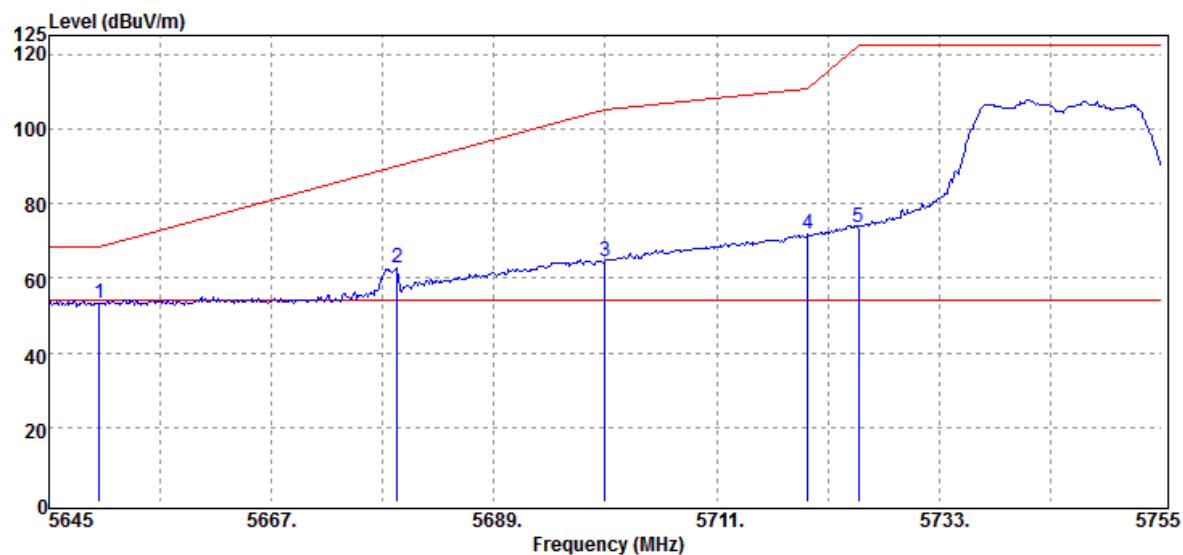
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Operation Band :802.11aB4
 Fundamental Frequency :5745 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	47.45	5.91	53.36	68.23	-14.87
5679.43	Peak	56.68	6.18	62.86	90.01	-27.15
5700.00	Peak	58.17	6.43	64.60	105.23	-40.63
5720.00	Peak	65.26	6.55	71.81	110.83	-39.02
5725.00	Peak	67.15	6.55	73.70	122.23	-48.53

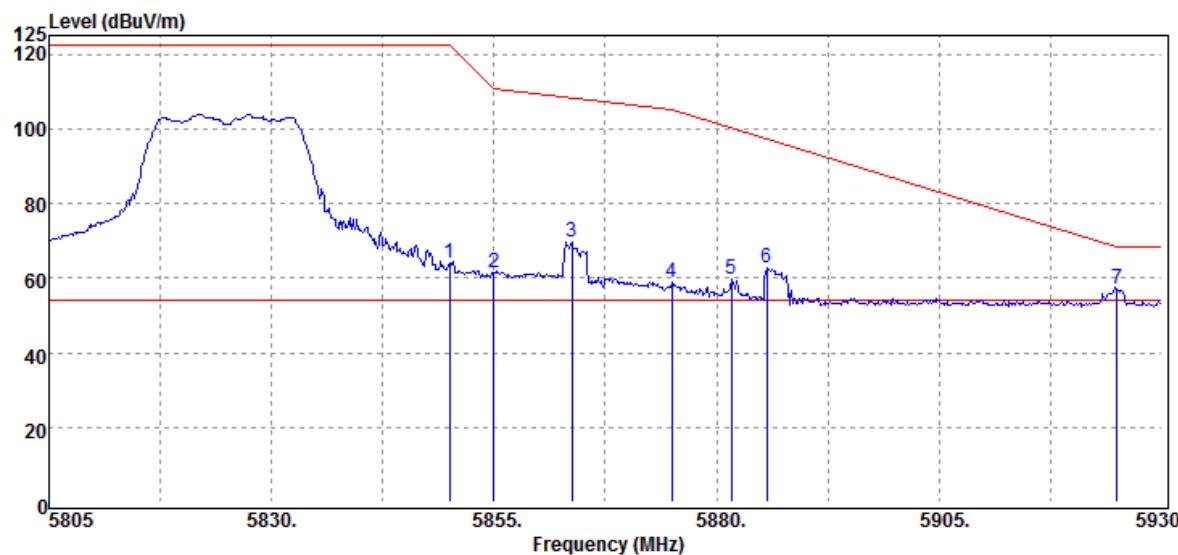
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Operation Band :802.11aB4
 Fundamental Frequency :5825 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	57.40	6.41	63.81	122.23	-58.42
5855.00	Peak	54.96	6.43	61.39	110.83	-49.44
5863.75	Peak	63.11	6.46	69.57	108.38	-38.81
5875.00	Peak	52.20	6.49	58.69	105.23	-46.54
5881.63	Peak	53.09	6.51	59.60	100.33	-40.73
5885.63	Peak	56.34	6.49	62.83	97.37	-34.54
5925.00	Peak	50.74	6.44	57.18	68.23	-11.05

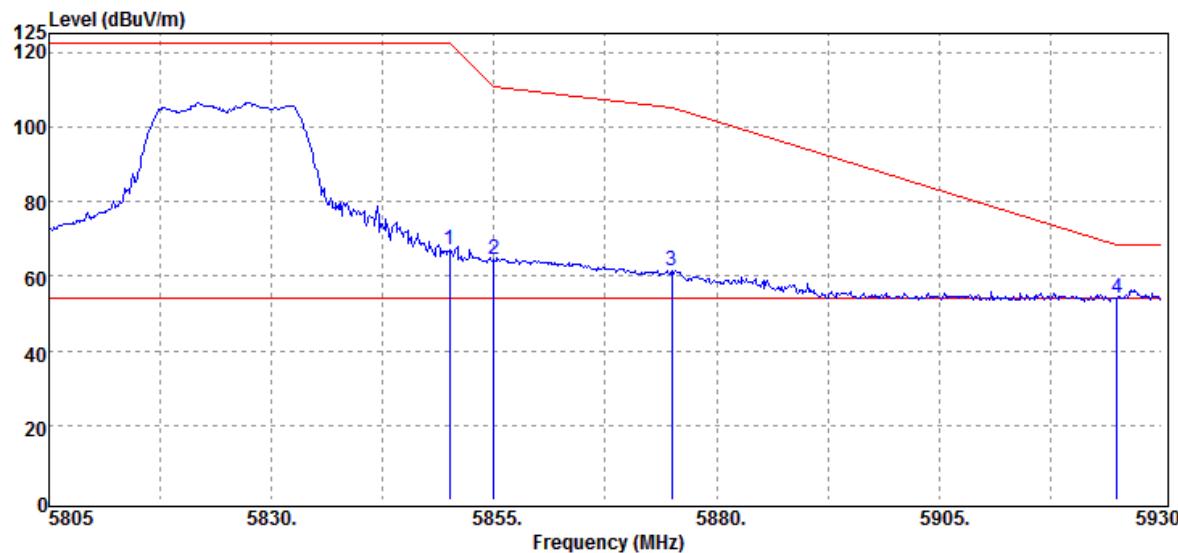
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Operation Band :802.11aB4
 Fundamental Frequency :5825 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	60.58	6.41	66.99	122.23	-55.24
5855.00	Peak	57.84	6.43	64.27	110.83	-46.56
5875.00	Peak	55.10	6.49	61.59	105.23	-43.64
5925.00	Peak	47.74	6.44	54.18	68.23	-14.05

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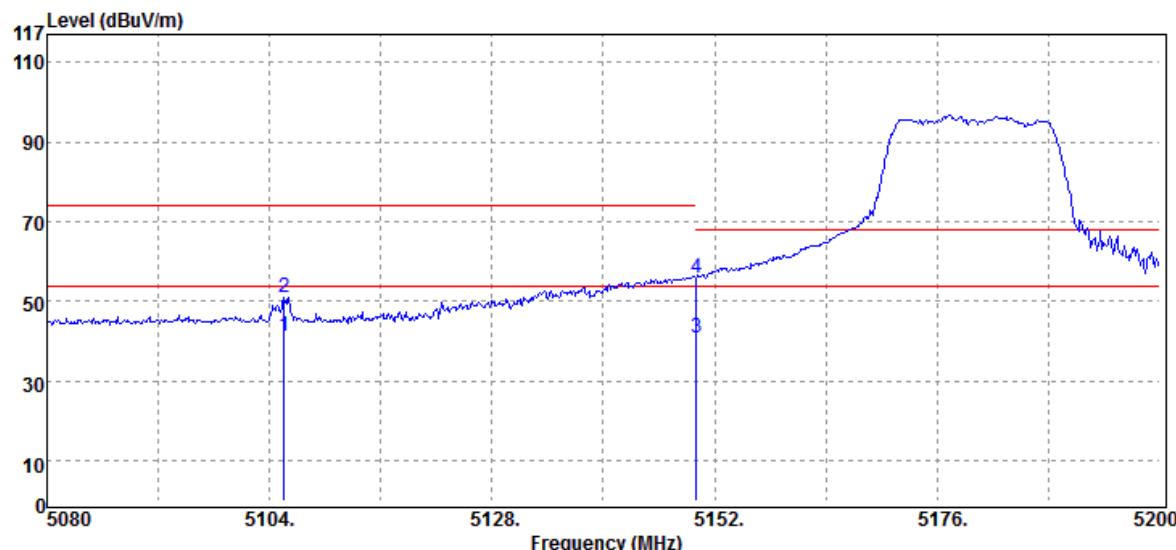
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802.11n20 mode

Operation Band :802.11n20B1
 Fundamental Frequency :5180 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5105.56	Average	36.51	4.77	41.28	54.00	-12.72
5105.56	Peak	46.37	4.77	51.14	74.00	-22.86
5150.00	Average	36.38	4.55	40.93	54.00	-13.07
5150.00	Peak	51.47	4.55	56.02	74.00	-17.98

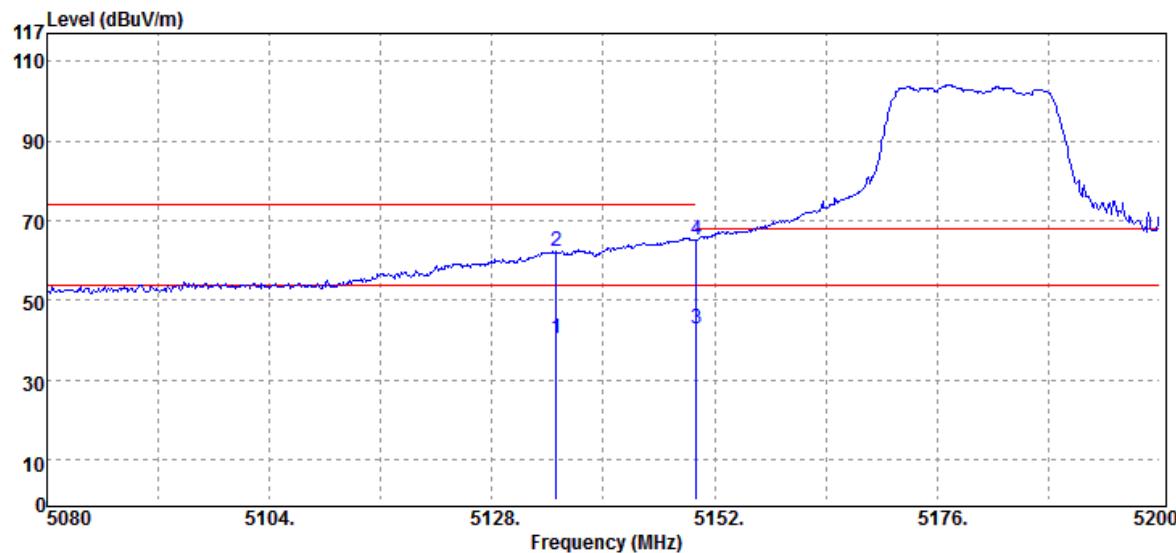
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Operation Band :802.11n20B1
 Fundamental Frequency :5180 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5134.96	Average	35.94	4.61	40.55	54.00	-13.45
5134.96	Peak	57.85	4.61	62.46	74.00	-11.54
5150.00	Average	38.28	4.55	42.83	54.00	-11.17
5150.00	Peak	60.73	4.55	65.28	74.00	-8.72

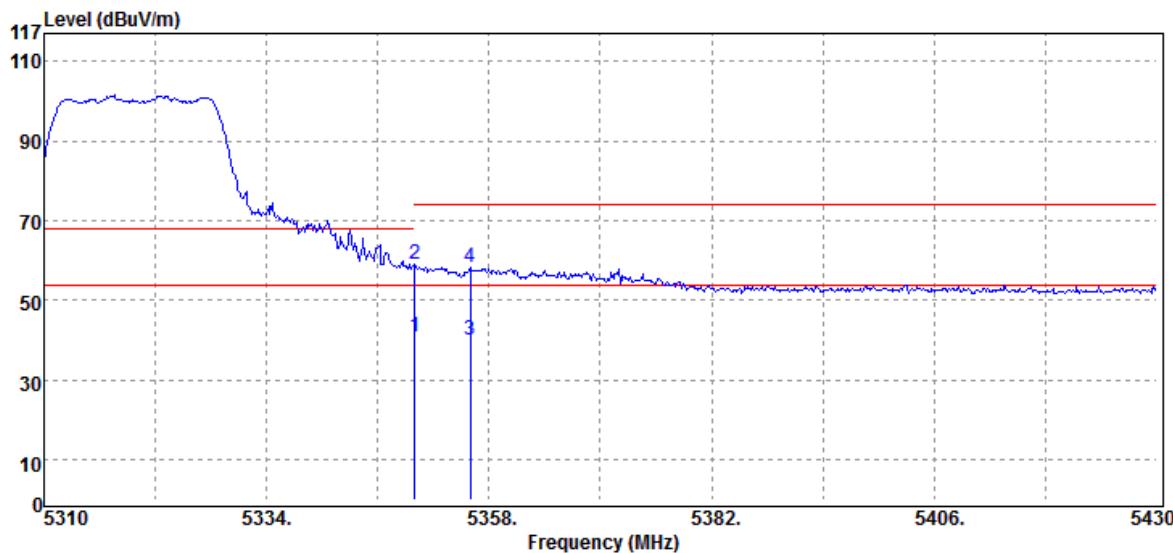
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Operation Band :802.11n20B2
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	35.66	5.19	40.85	54.00	-13.15
5350.00	Peak	53.76	5.19	58.95	74.00	-15.05
5355.96	Average	34.82	5.21	40.03	54.00	-13.97
5355.96	Peak	53.15	5.21	58.36	74.00	-15.64

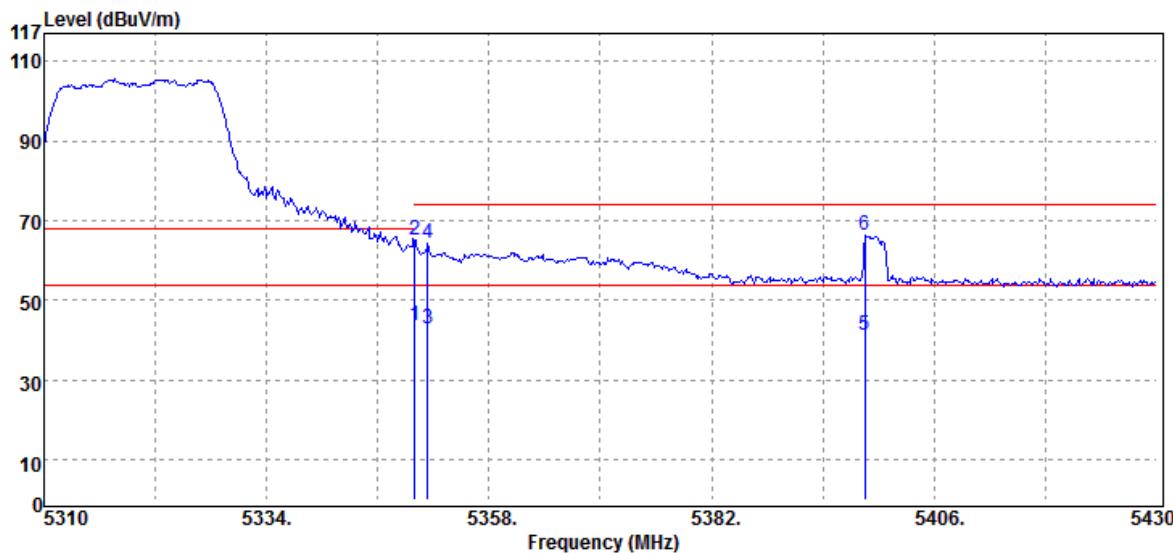
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Operation Band :802.11n20B2
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	38.55	5.19	43.74	54.00	-10.26
5350.00	Peak	59.79	5.19	64.98	74.00	-9.02
5351.40	Average	37.88	5.20	43.08	54.00	-10.92
5351.40	Peak	59.34	5.20	64.54	74.00	-9.46
5398.56	Average	35.72	5.62	41.34	54.00	-12.66
5398.56	Peak	60.65	5.62	66.27	74.00	-7.73

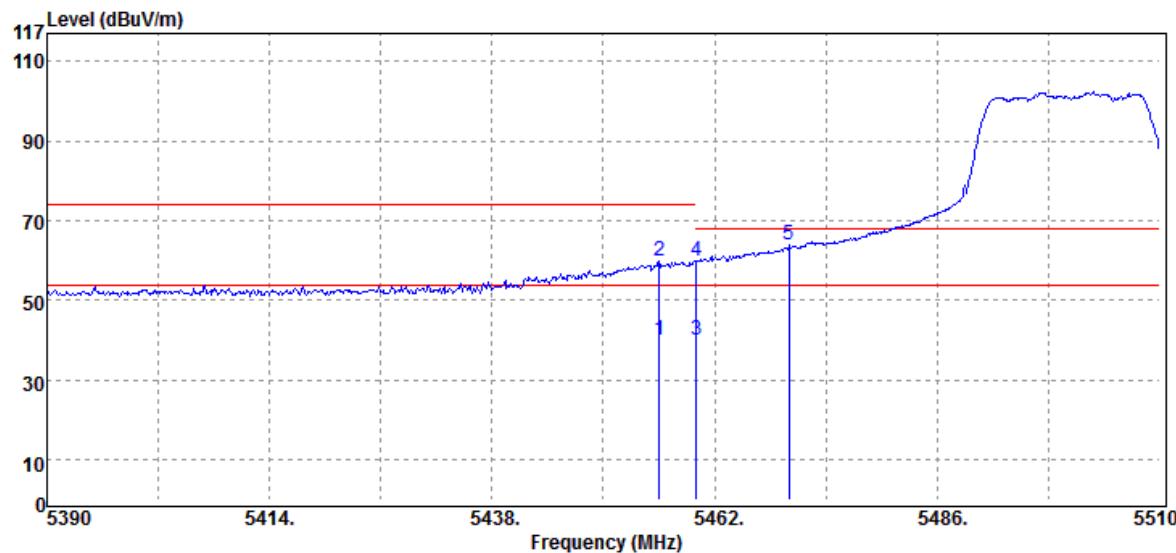
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Operation Band :802.11n20B3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5456.00	Average	34.35	5.55	39.90	54.00	-14.10
5456.00	Peak	54.41	5.55	59.96	74.00	-14.04
5460.00	Average	34.56	5.54	40.10	54.00	-13.90
5460.00	Peak	54.42	5.54	59.96	74.00	-14.04
5470.00	Peak	58.38	5.52	63.90	68.20	-4.30

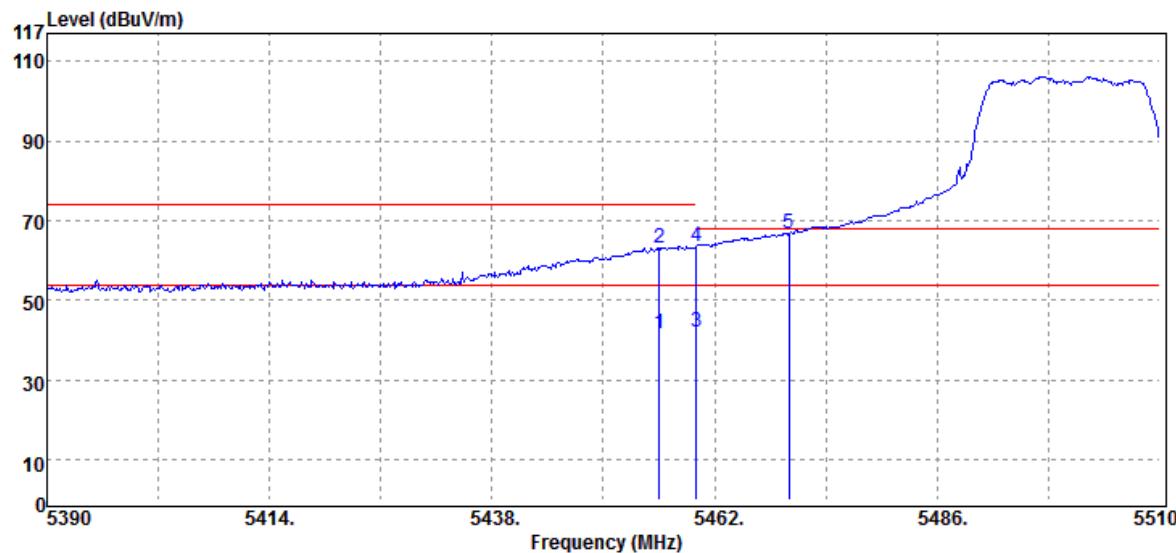
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Operation Band :802.11n20B3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5456.00	Average	35.98	5.55	41.53	54.00	-12.47
5456.00	Peak	57.80	5.55	63.35	74.00	-10.65
5460.00	Average	36.55	5.54	42.09	54.00	-11.91
5460.00	Peak	58.14	5.54	63.68	74.00	-10.32
5470.04	Peak	61.38	5.52	66.90	68.20	-1.30

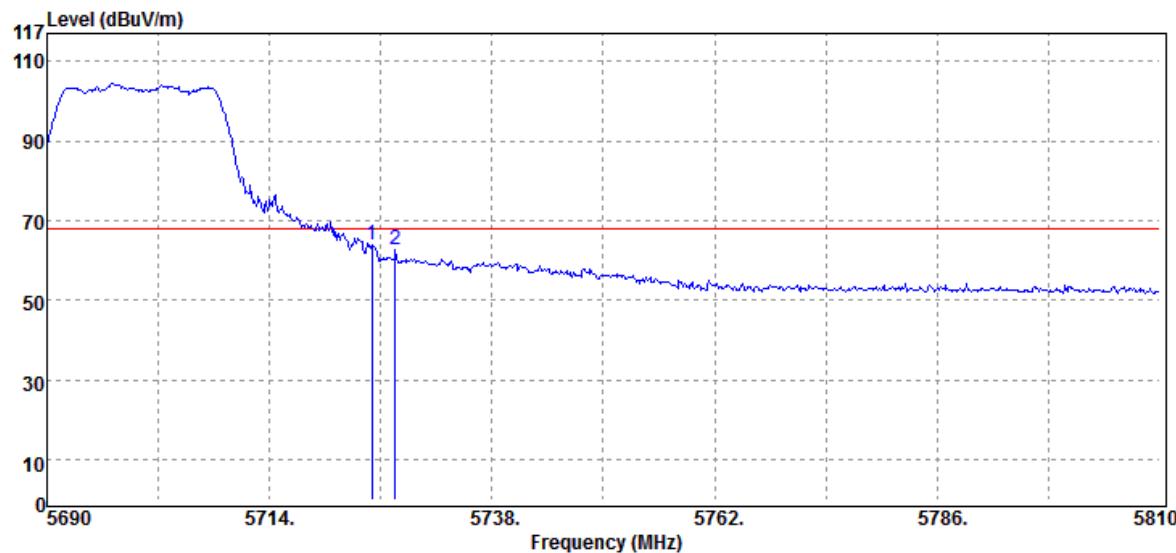
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Operation Band :802.11n20B3
 Fundamental Frequency :5700 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
5725.00	Peak	57.50	6.55	64.05	68.20	-4.15
5727.56	Peak	56.31	6.54	62.85	68.20	-5.35

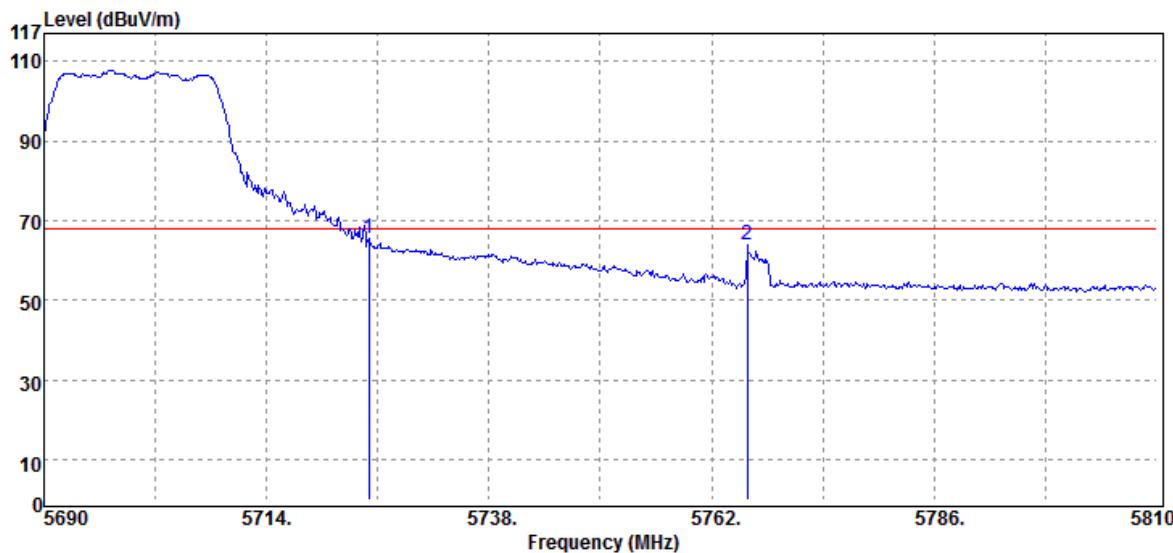
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Operation Band :802.11n20B3
 Fundamental Frequency :5700 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
5725.04	Peak	58.97	6.55	65.52	68.20	-2.68
5765.84	Peak	57.63	6.39	64.02	68.20	-4.18

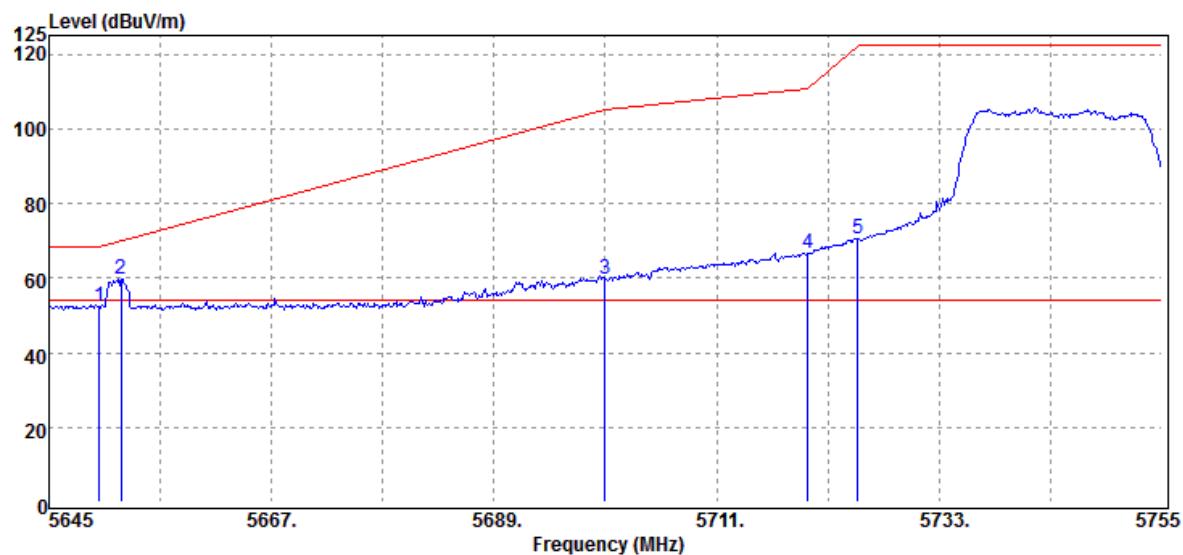
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Operation Band :802.11n20B4
 Fundamental Frequency :5745 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5649.95	Peak	46.33	5.91	52.24	68.23	-15.99
5652.15	Peak	53.73	5.93	59.66	69.82	-10.16
5700.00	Peak	53.29	6.43	59.72	105.23	-45.51
5720.02	Peak	60.23	6.55	66.78	110.88	-44.10
5724.97	Peak	63.88	6.55	70.43	122.16	-51.73

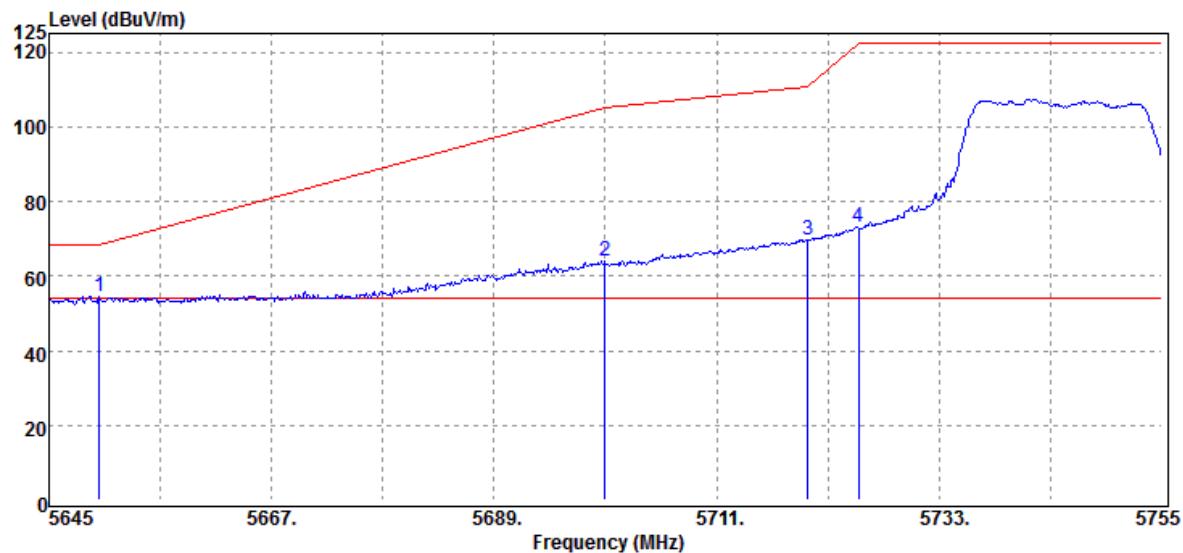
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Operation Band :802.11n20B4
 Fundamental Frequency :5745 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	48.62	5.91	54.53	68.23	-13.70
5700.00	Peak	57.65	6.43	64.08	105.23	-41.15
5720.00	Peak	63.14	6.55	69.69	110.83	-41.14
5725.00	Peak	66.36	6.55	72.91	122.23	-49.32

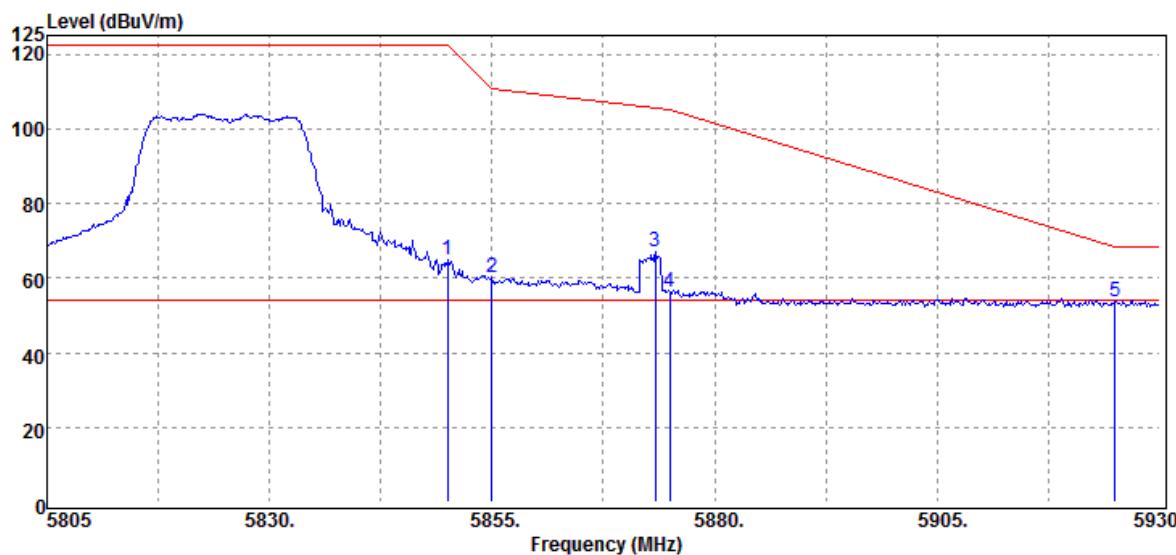
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Operation Band :802.11n20B4
 Fundamental Frequency :5825 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	58.68	6.41	65.09	122.23	-57.14
5855.00	Peak	53.62	6.43	60.05	110.83	-50.78
5873.38	Peak	60.59	6.49	67.08	105.69	-38.61
5875.00	Peak	49.87	6.49	56.36	105.23	-48.87
5925.00	Peak	47.37	6.44	53.81	68.23	-14.42

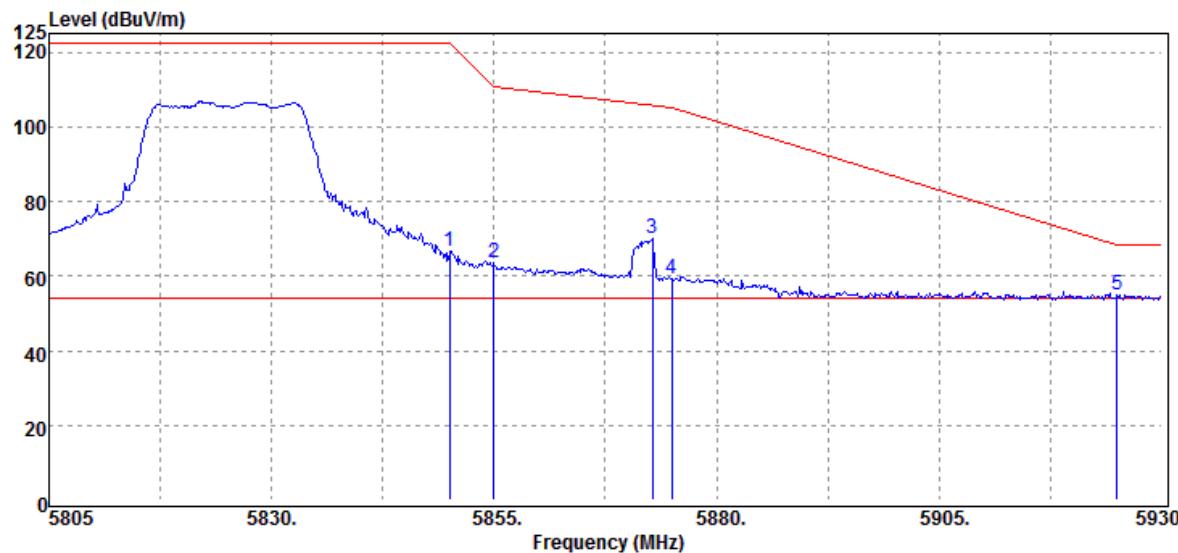
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Operation Band :802.11n20B4
 Fundamental Frequency :5825 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	60.12	6.41	66.53	122.23	-55.70
5855.00	Peak	57.10	6.43	63.53	110.83	-47.30
5872.75	Peak	63.67	6.48	70.15	105.86	-35.71
5875.00	Peak	52.69	6.49	59.18	105.23	-46.05
5925.00	Peak	48.34	6.44	54.78	68.23	-13.45

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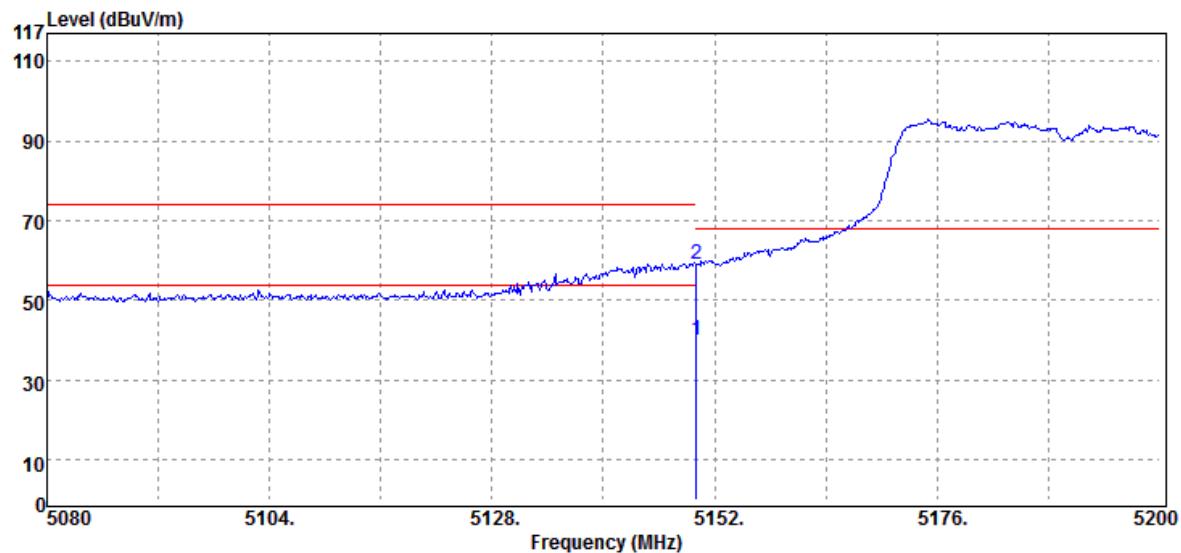
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802.11n40 mode

Operation Band :802.11n40B1
 Fundamental Frequency :5190 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
5150.00	Average	35.45	4.55	40.00	54.00	-14.00
5150.00	Peak	54.38	4.55	58.93	74.00	-15.07

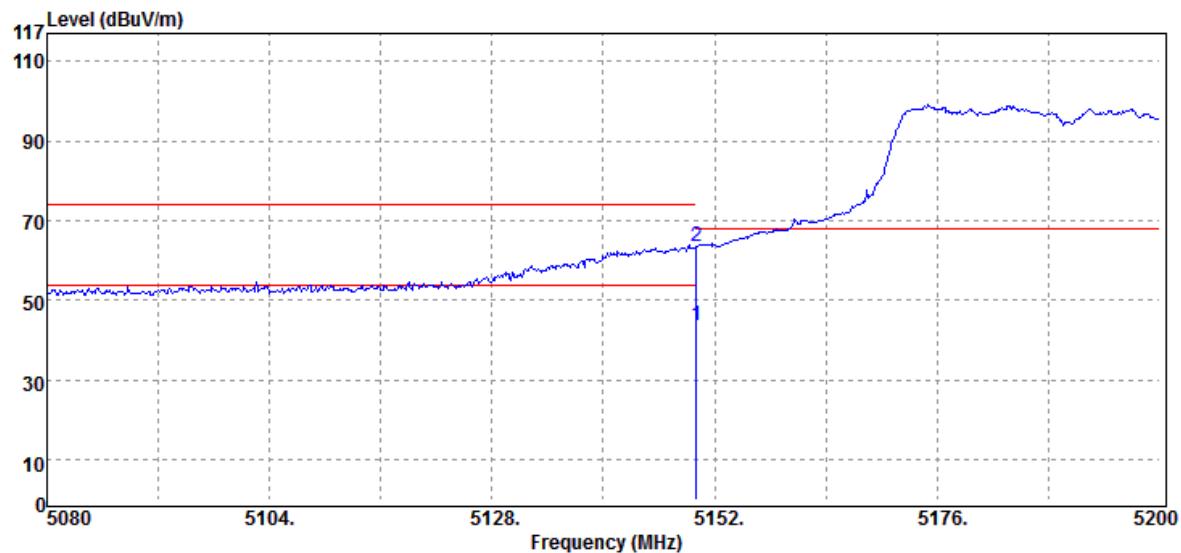
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Operation Band :802.11n40B1
Fundamental Frequency :5190 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E1 Plane

Test Date :2019-03-20
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
5150.00	Average	39.06	4.55	43.61	54.00	-10.39
5150.00	Peak	58.87	4.55	63.42	74.00	-10.58

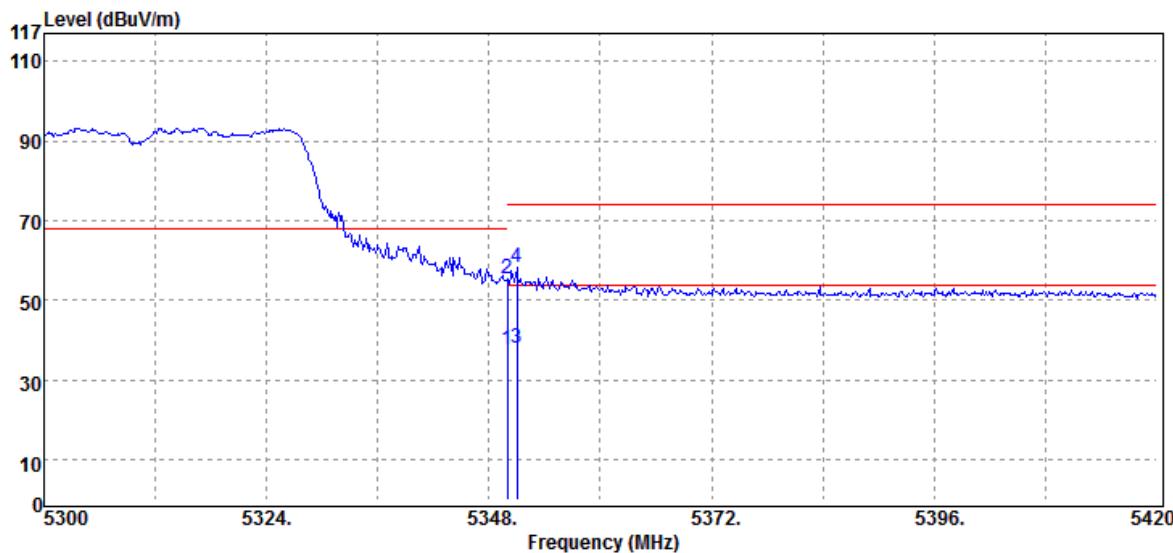
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Operation Band :802.11n40B2
 Fundamental Frequency :5310 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	32.58	5.19	37.77	54.00	-16.23
5350.00	Peak	50.33	5.19	55.52	74.00	-18.48
5351.00	Average	32.83	5.20	38.03	54.00	-15.97
5351.00	Peak	52.95	5.20	58.15	74.00	-15.85

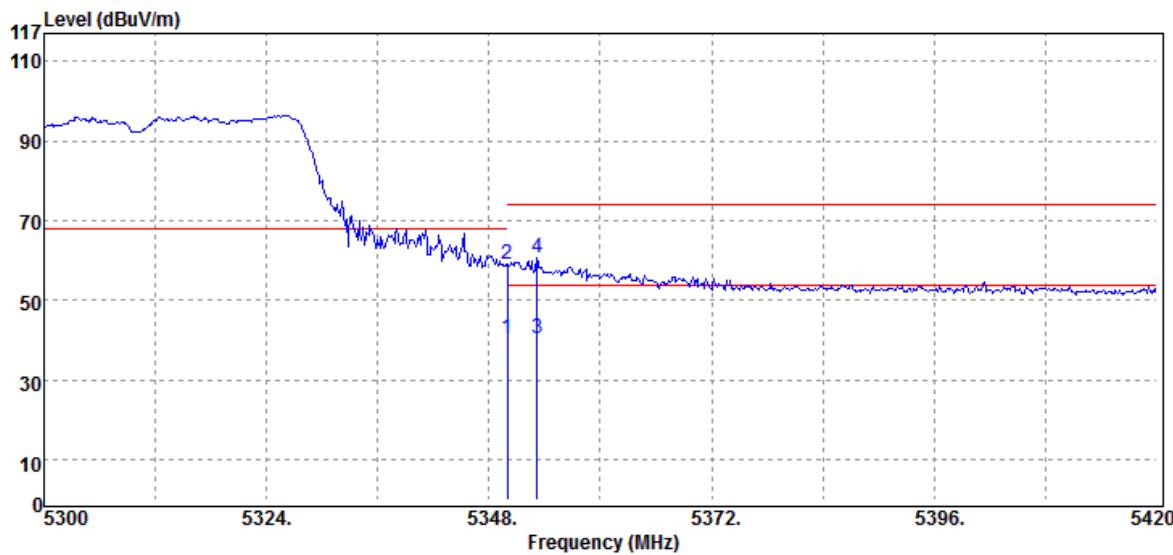
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Operation Band :802.11n40B2
 Fundamental Frequency :5310 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	35.38	5.19	40.57	54.00	-13.43
5350.00	Peak	54.00	5.19	59.19	74.00	-14.81
5353.16	Average	35.34	5.20	40.54	54.00	-13.46
5353.16	Peak	55.58	5.20	60.78	74.00	-13.22

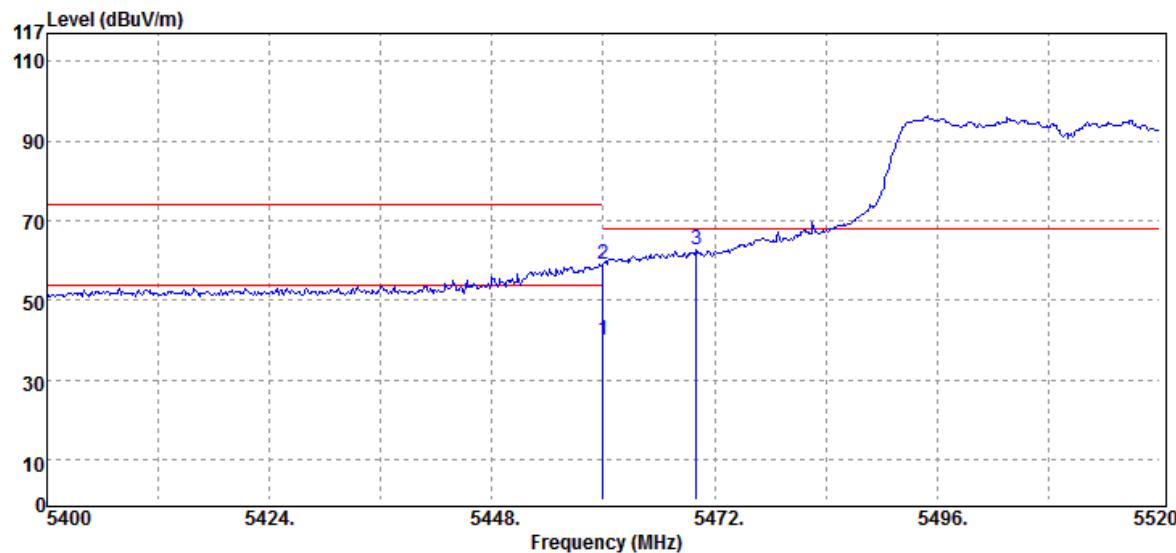
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Operation Band :802.11n40B3
 Fundamental Frequency :5510 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
5460.00	Average	34.65	5.54	40.19	54.00	-13.81
5460.00	Peak	53.66	5.54	59.20	74.00	-14.80
5470.00	Peak	57.18	5.52	62.70	68.20	-5.50

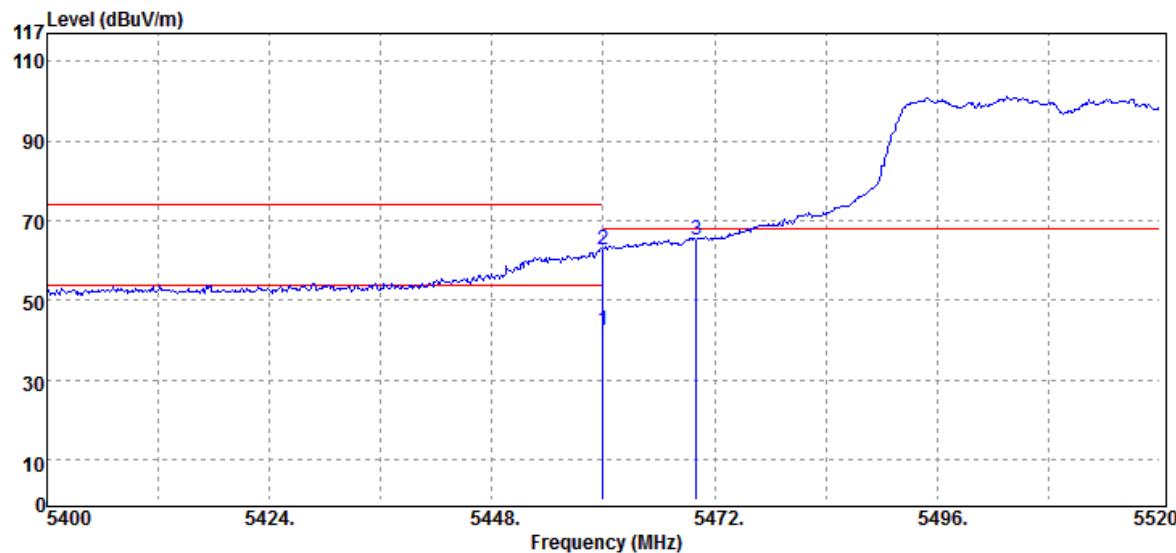
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Operation Band :802.11n40B3
 Fundamental Frequency :5510 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _μ V	Factor dB	Actual FS dB _μ V/m	Limit @3m dB _μ V/m	Margin dB
5460.00	Average	37.07	5.54	42.61	54.00	-11.39
5460.00	Peak	57.26	5.54	62.80	74.00	-11.20
5470.00	Peak	59.84	5.52	65.36	68.20	-2.84

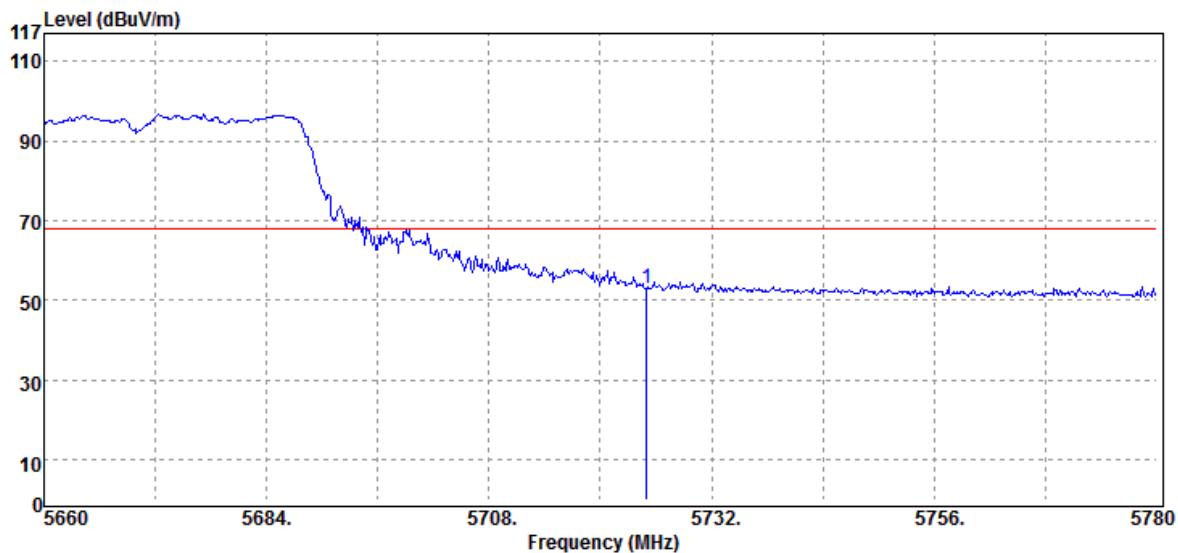
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Operation Band :802.11n40B3
Fundamental Frequency :5670 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E1 Plane

Test Date :2019-03-20
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin
5725.00	Peak	46.53	6.55	53.08	68.20	-15.12

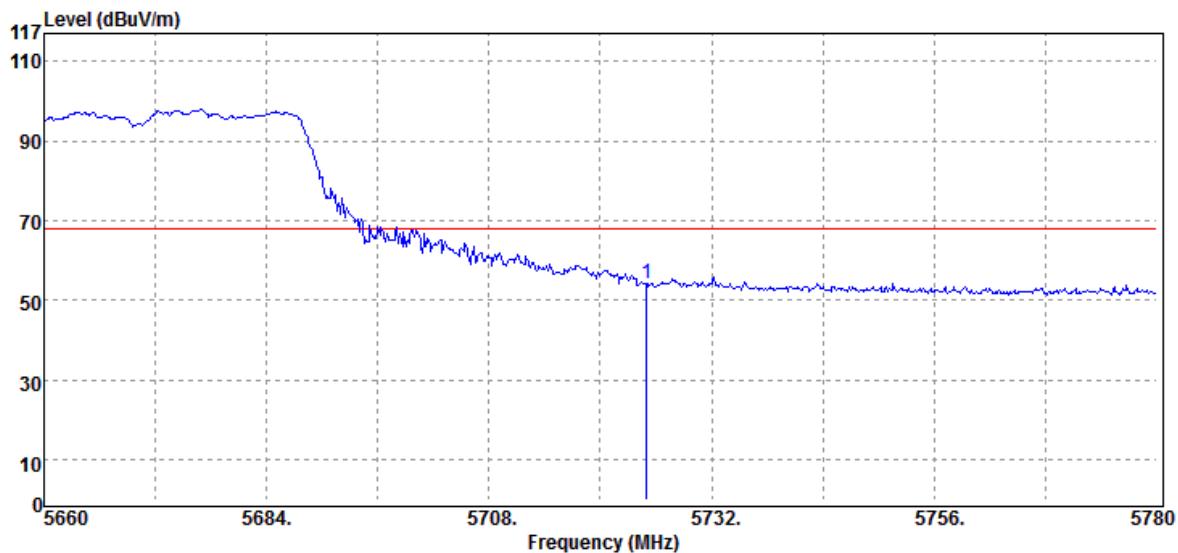
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Operation Band :802.11n40B3
 Fundamental Frequency :5670 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin
5725.00	Peak	47.88	6.55	54.43	68.20	-13.77

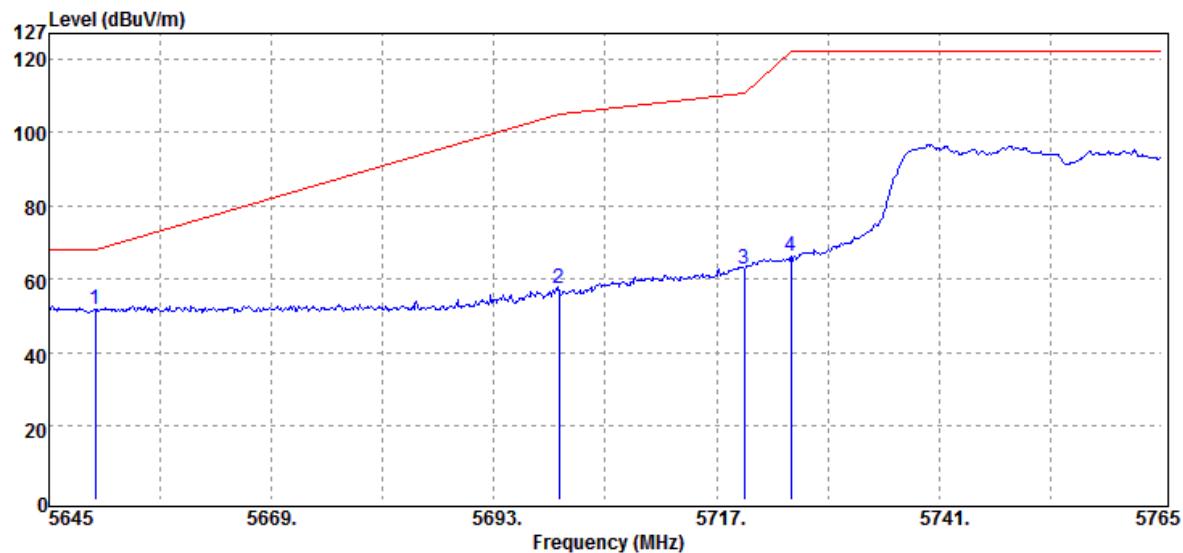
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Operation Band :802.11n40B4
 Fundamental Frequency :5755 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	45.78	5.91	51.69	68.23	-16.54
5700.00	Peak	50.95	6.43	57.38	105.23	-47.85
5720.00	Peak	56.46	6.55	63.01	110.83	-47.82
5725.00	Peak	59.94	6.55	66.49	122.23	-55.74

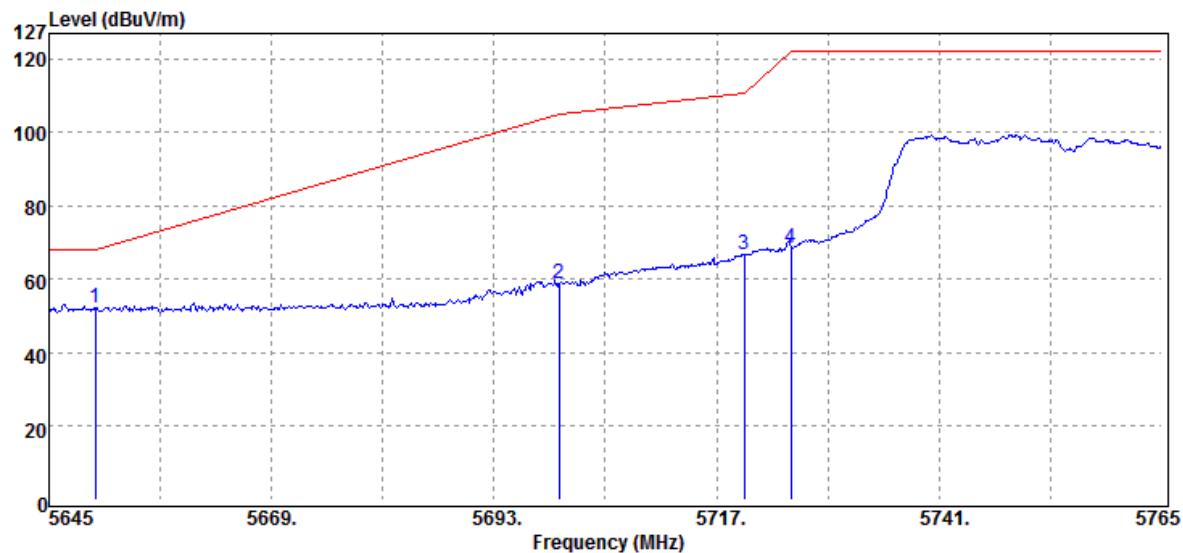
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Operation Band :802.11n40B4
 Fundamental Frequency :5755 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	46.27	5.91	52.18	68.23	-16.05
5700.00	Peak	52.50	6.43	58.93	105.23	-46.30
5720.00	Peak	60.04	6.55	66.59	110.83	-44.24
5725.00	Peak	61.93	6.55	68.48	122.23	-53.75

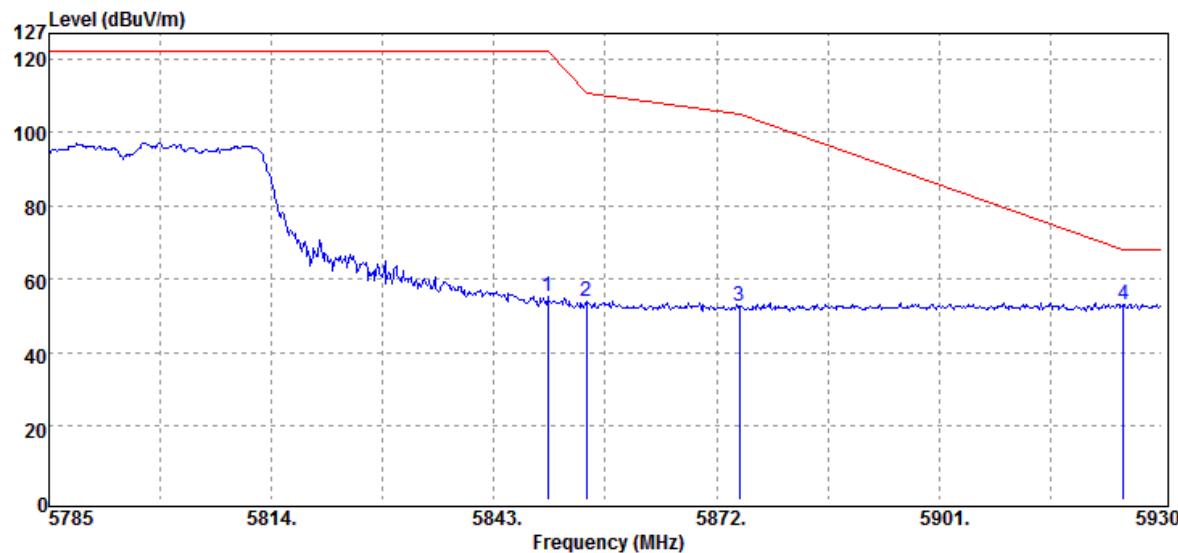
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Operation Band :802.11n40B4
 Fundamental Frequency :5795 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	48.99	6.41	55.40	122.23	-66.83
5855.00	Peak	47.45	6.43	53.88	110.83	-56.95
5875.00	Peak	46.05	6.49	52.54	105.23	-52.69
5925.00	Peak	46.58	6.44	53.02	68.23	-15.21

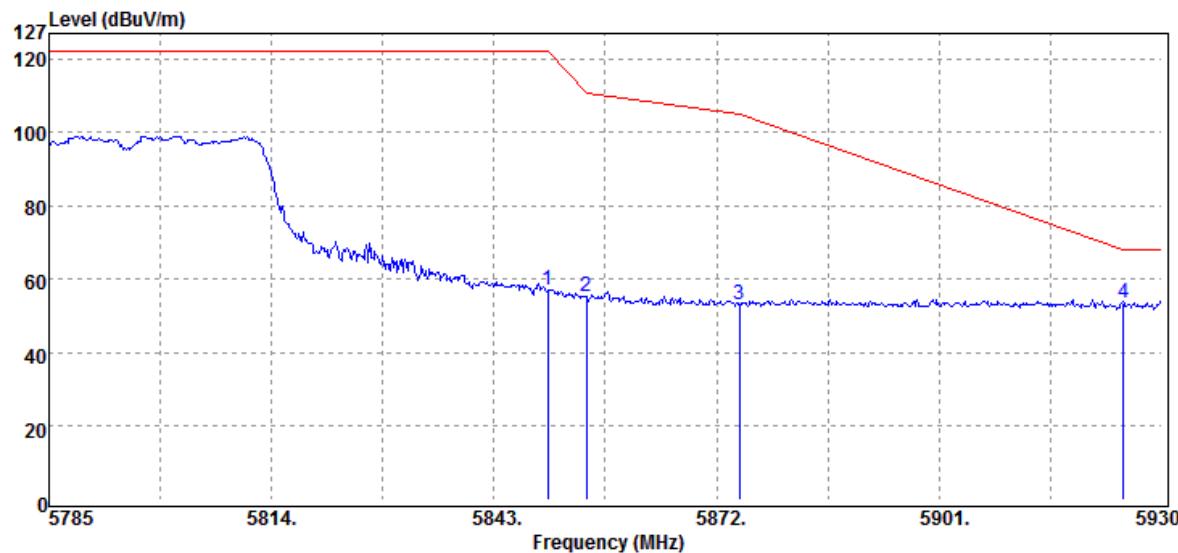
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Operation Band :802.11n40B4
 Fundamental Frequency :5795 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	50.55	6.41	56.96	122.23	-65.27
5855.00	Peak	49.06	6.43	55.49	110.83	-55.34
5875.00	Peak	46.78	6.49	53.27	105.23	-51.96
5925.00	Peak	46.97	6.44	53.41	68.23	-14.82

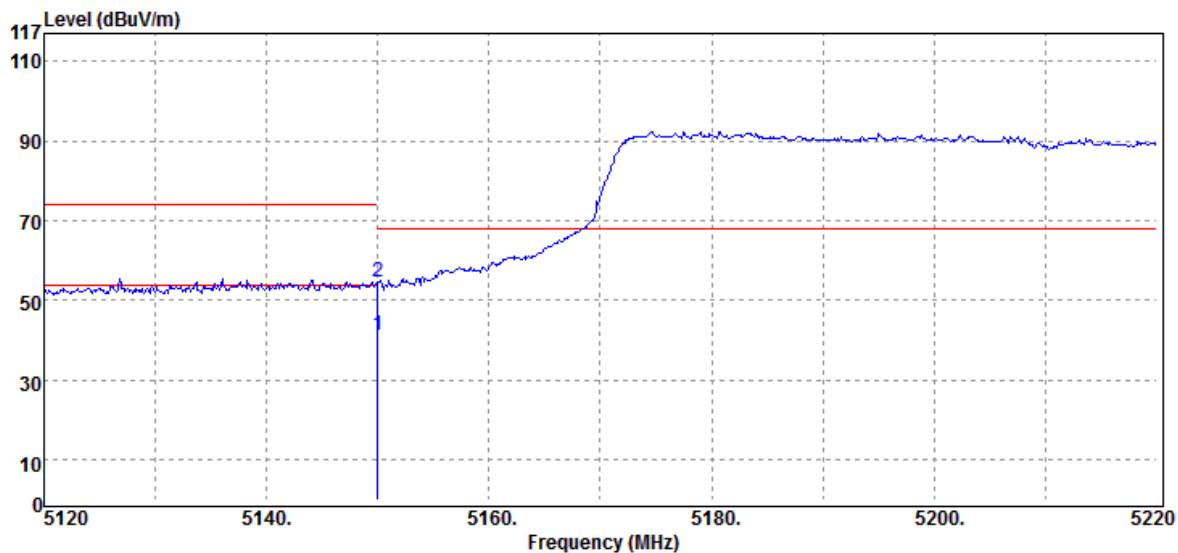
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802.11ac80 mode

Operation Band	:802.11ac80B1	Test Date	:2019-03-20
Fundamental Frequency	:5210 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin
5150.00	Average	36.71	4.55	41.26	54.00	-12.74
5150.00	Peak	50.10	4.55	54.65	74.00	-19.35

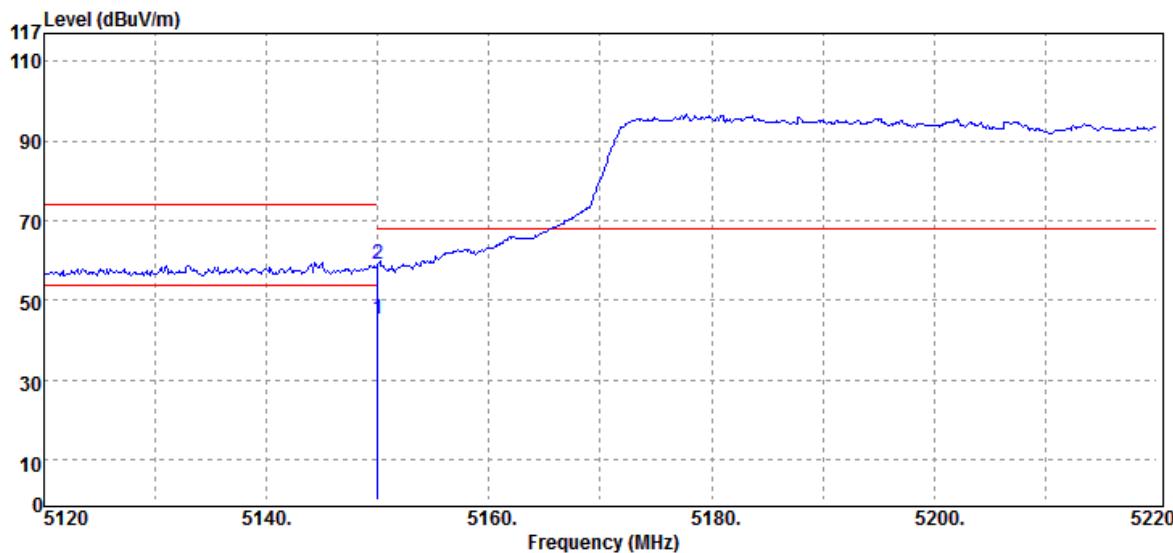
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Operation Band :802.11ac80B1
 Fundamental Frequency :5210 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
5150.00	Average	40.65	4.55	45.20	54.00	-8.80
5150.00	Peak	54.55	4.55	59.10	74.00	-14.90

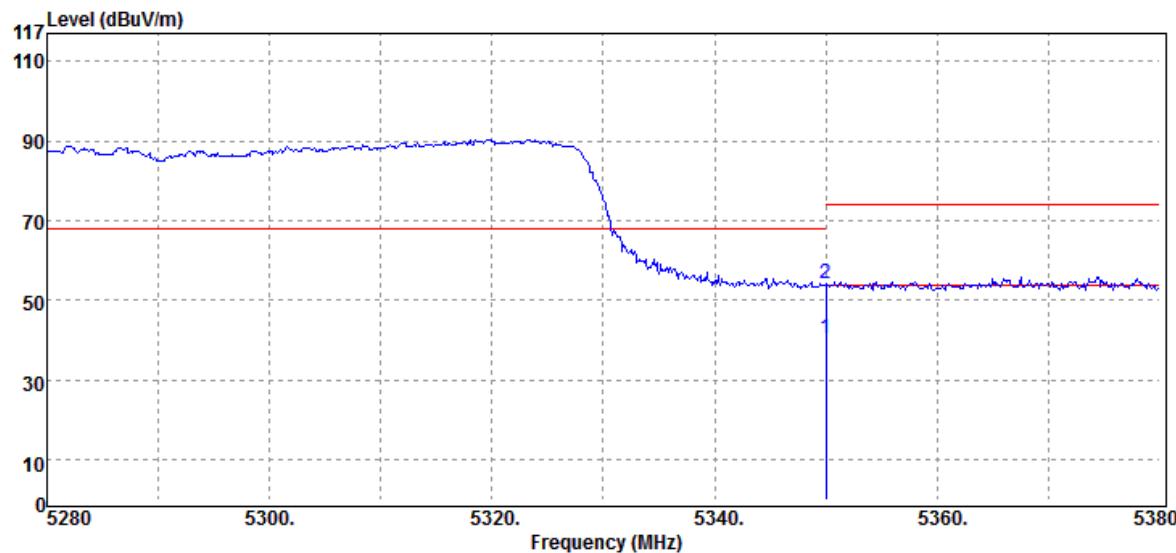
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Operation Band :802.11ac80B2
 Fundamental Frequency :5290 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin
5350.00	Average	35.20	5.19	40.39	54.00	-13.61
5350.00	Peak	49.07	5.19	54.26	74.00	-19.74

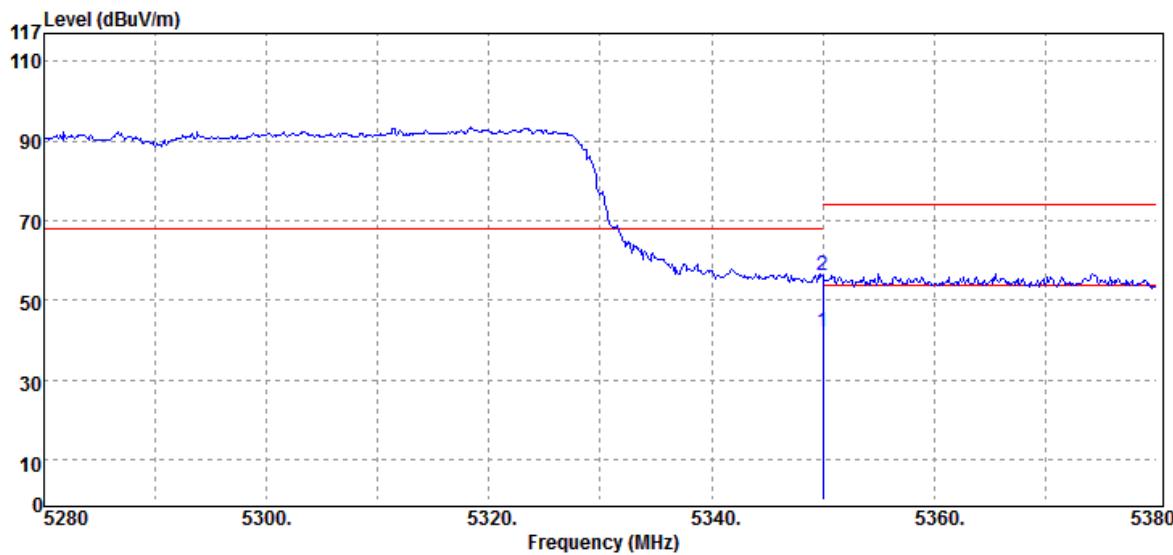
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Operation Band :802.11ac80B2
 Fundamental Frequency :5290 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
5350.00	Average	36.79	5.19	41.98	54.00	-12.02
5350.00	Peak	50.93	5.19	56.12	74.00	-17.88

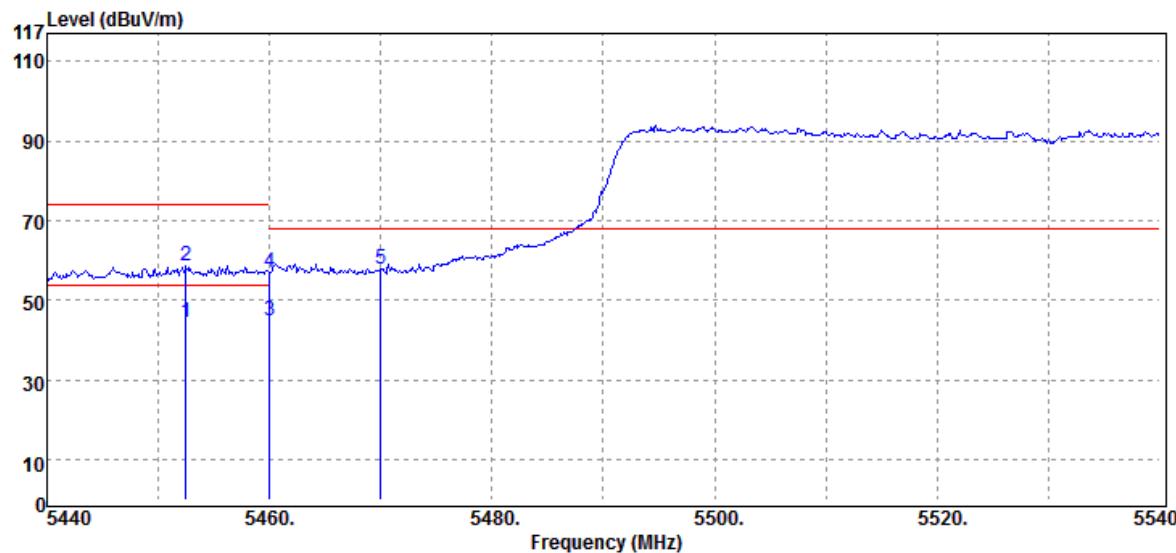
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Operation Band :802.11ac80B3
 Fundamental Frequency :5530 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5452.50	Average	38.99	5.55	44.54	54.00	-9.46
5452.50	Peak	53.20	5.55	58.75	74.00	-15.25
5460.00	Average	39.23	5.54	44.77	54.00	-9.23
5460.00	Peak	51.39	5.54	56.93	74.00	-17.07
5470.00	Peak	52.51	5.52	58.03	68.20	-10.17

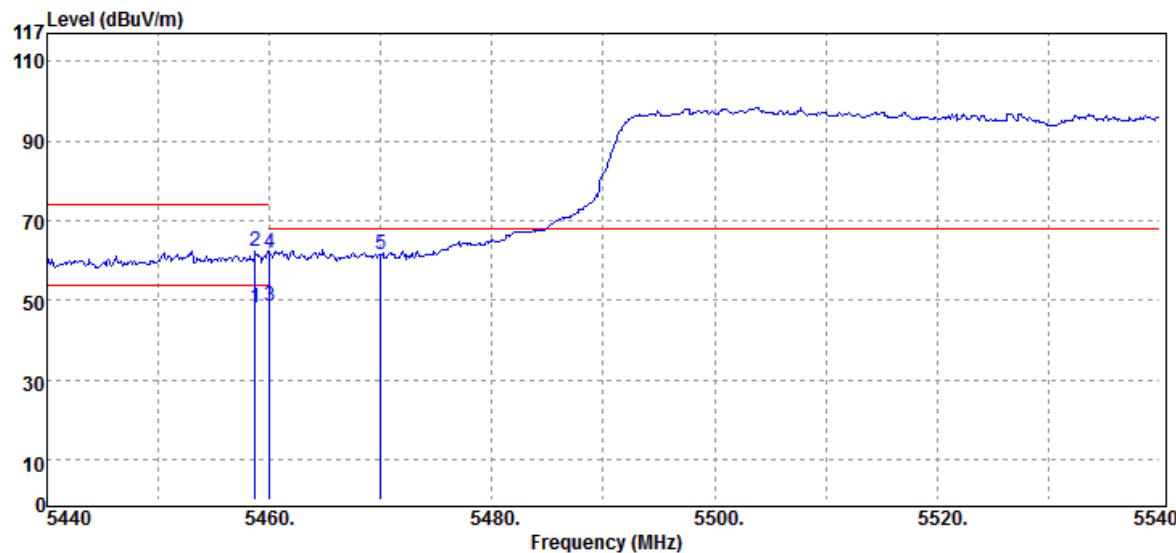
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Operation Band :802.11ac80B3
 Fundamental Frequency :5530 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5458.70	Average	42.82	5.54	48.36	54.00	-5.64
5458.70	Peak	56.84	5.54	62.38	74.00	-11.62
5460.00	Average	42.85	5.54	48.39	54.00	-5.61
5460.00	Peak	56.52	5.54	62.06	74.00	-11.94
5470.00	Peak	55.85	5.52	61.37	68.20	-6.83

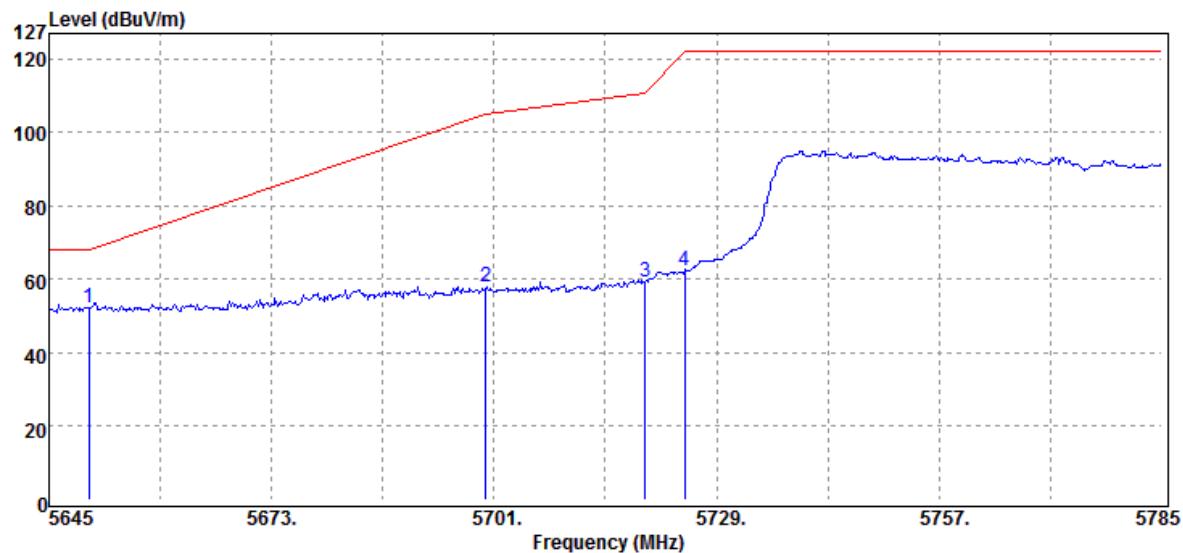
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Operation Band :802.11ac80B4
 Fundamental Frequency :5775 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	46.48	5.91	52.39	68.23	-15.84
5700.00	Peak	51.56	6.43	57.99	105.23	-47.24
5720.00	Peak	52.91	6.55	59.46	110.83	-51.37
5725.00	Peak	55.68	6.55	62.23	122.23	-60.00

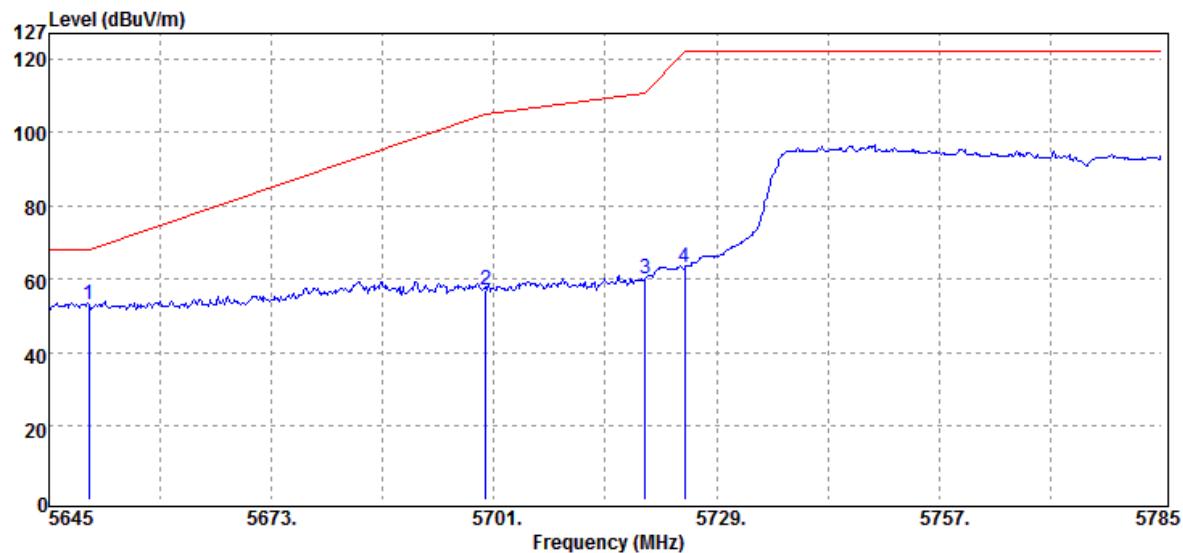
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Operation Band :802.11ac80B4
 Fundamental Frequency :5775 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	47.06	5.91	52.97	68.23	-15.26
5700.00	Peak	50.85	6.43	57.28	105.23	-47.95
5720.00	Peak	53.56	6.55	60.11	110.83	-50.72
5725.00	Peak	56.72	6.55	63.27	122.23	-58.96

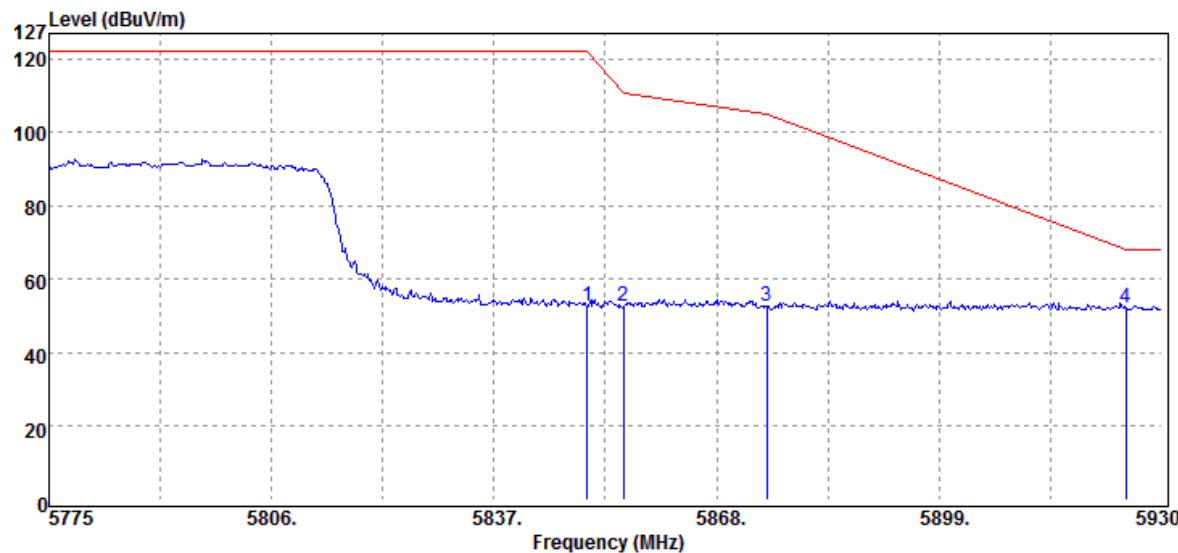
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Operation Band :802.11ac80B4
 Fundamental Frequency :5775 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E1 Plane

Test Date :2019-03-20
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	46.37	6.41	52.78	122.23	-69.45
5855.00	Peak	46.16	6.43	52.59	110.83	-58.24
5875.00	Peak	46.28	6.49	52.77	105.23	-52.46
5925.00	Peak	45.64	6.44	52.08	68.23	-16.15

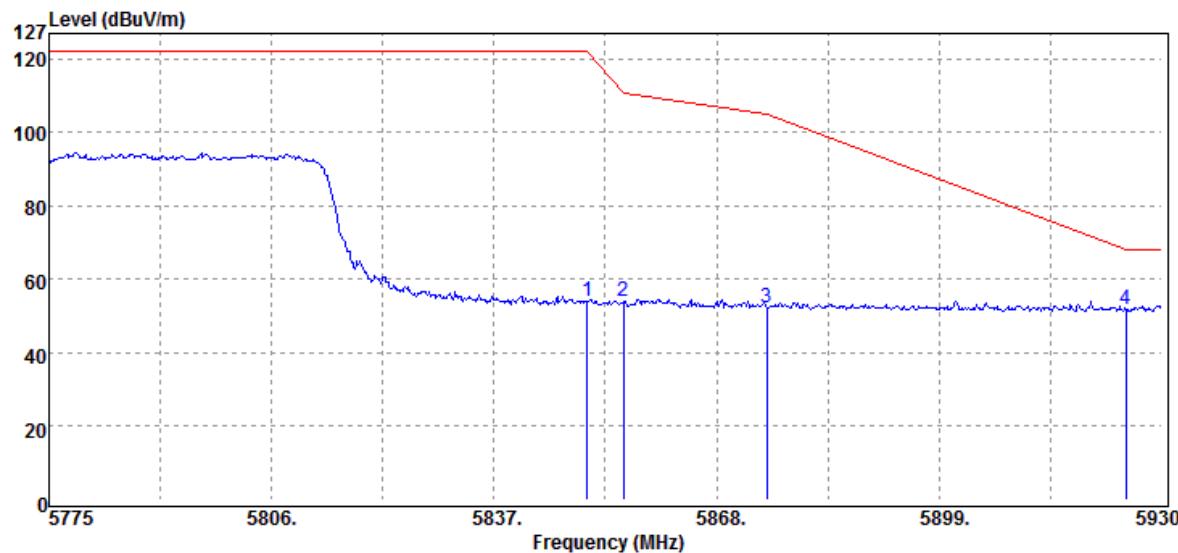
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Test Date :2019-03-20
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	47.83	6.41	54.24	122.23	-67.99
5855.00	Peak	47.55	6.43	53.98	110.83	-56.85
5875.00	Peak	45.94	6.49	52.43	105.23	-52.80
5925.00	Peak	45.50	6.44	51.94	68.23	-16.29

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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

12.2 Result

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

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13 FREQUENCY STABILITY

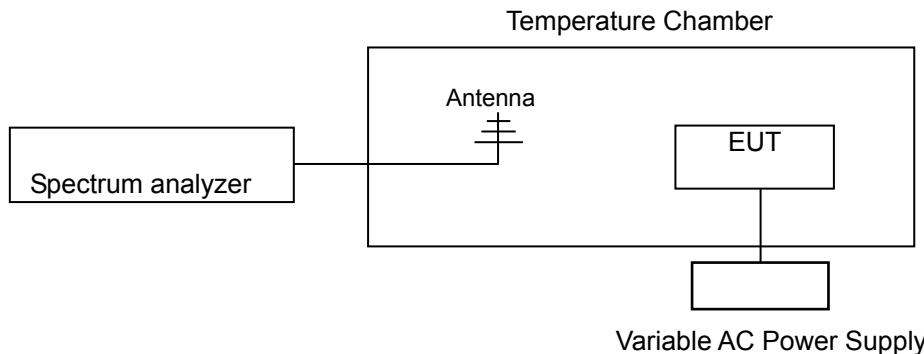
13.1 Standard Applicable

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

13.2 Measurement Procedure

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

13.3 Test SET-UP



13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
DC Power Supply	Agilent	E3640A	MY53130054	09/03/2018	09/02/2019
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/09/2018	04/08/2019
DC Power Supply	Agilent	E3640A	KR93300208	08/15/2018	08/14/2019
Thermostatic/Hrgrosatic Chamber	TAICHY	MHG-150LF	930619	10/08/2018	10/07/2019
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020

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13.5 Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2019.03.19
Temperature	: 23.4°C	Test By	Peter
Humidity	: 57%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-40	3.5	36	5180	5,179.99292	0.00000137
	3.1	36	5180	5,179.99044	0.00000185
25	3.3	36	5180	5,179.98318	0.00000325
85	3.5	36	5180	5,179.98821	0.00000228
	3.1	36	5180	5,179.99817	0.00000035

2 Minutes:

Operation Mode	802.11 a	Test Date	2019.03.19
Temperature	: 23.4°C	Test By	Peter
Humidity	: 57%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-40	3.5	36	5180	5,179.99023	0.00000189
	3.1	36	5180	5,179.99325	0.00000130
25	3.3	36	5180	5,179.98537	0.00000282
85	3.5	36	5180	5,179.99752	0.00000048
	3.1	36	5180	5,179.99081	0.00000177

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5 Minutes:

Operation Mode	802.11 a	Test Date	2019.03.19
Temperature	: 23.4°C	Test By	Peter
Humidity	: 57%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-40	3.5	36	5180	5,179.99300	0.00000135
	3.1	36	5180	5,179.99006	0.00000192
25	3.3	36	5180	5,179.98218	0.00000344
85	3.5	36	5180	5,179.98571	0.00000276
	3.1	36	5180	5,179.98765	0.00000238

10 Minutes:

Operation Mode	802.11 a	Test Date	2019.03.19
Temperature	: 23.4°C	Test By	Peter
Humidity	: 57%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-40	3.5	36	5180	5,179.99322	0.00000131
	3.1	36	5180	5,179.99164	0.00000161
25	3.3	36	5180	5,179.98276	0.00000333
85	3.5	36	5180	5,179.99090	0.00000176
	3.1	36	5180	5,179.99316	0.00000132

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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

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

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

14.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

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