10 PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Mater device)	17dBm/ MHz
		Fixed point-to-point Acess Ponit	
	√	Mobile and portable clinet device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

IC

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

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

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10.2 Measurement Procedure

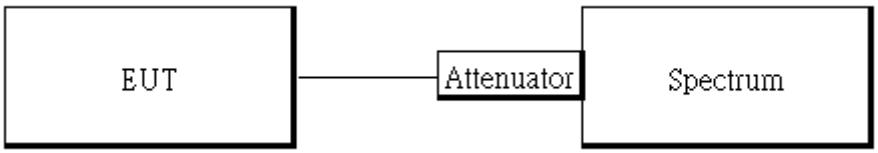
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band**:
   Set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

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

10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/24/2017	12/23/2018
DC Block	PASTERNACK	PE8210	RF29	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2018	05/01/2019

10.4 Test Set-up



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10.5 Measurement Result

POWER DENSITY 802.11a MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	3.45	0.21	3.66	11	-7.34
5220	3.22	0.21	3.43	11	-7.57
5240	2.14	0.21	2.35	11	-8.65
5260	1.37	0.21	1.58	11	-9.42
5300	3.78	0.21	3.99	11	-7.01
5320	2.21	0.21	2.42	11	-8.58
5500	3.19	0.21	3.40	11	-7.60
5580	3.79	0.21	4.00	11	-7.00
5700	2.41	0.21	2.62	11	-8.38
5745	9.22	0.21	9.22	30	-20.78
5785	10.25	0.21	10.25	30	-19.75
5825	9.29	0.21	9.29	30	-20.71

POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	4.12	0.24	4.36	11	-6.64
5220	3.30	0.24	3.54	11	-7.46
5240	2.22	0.24	2.46	11	-8.54
5260	4.30	0.24	4.54	11	-6.46
5300	4.30	0.24	4.54	11	-6.46
5320	1.44	0.24	1.68	11	-9.32
5500	1.84	0.24	2.08	11	-8.92
5580	0.46	0.24	0.70	11	-10.30
5700	1.70	0.24	1.94	11	-9.06
5720 (band 3)	-1.37	0.20	-1.18	11	-12.18
5720 (band 4)	-3.34	0.20	-3.15	11	-14.15
5745	11.31	0.24	11.31	30	-18.69
5785	11.38	0.24	11.38	30	-18.62
5825	10.80	0.24	10.80	30	-19.20

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POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-3.78	0.44	-3.34	11	-14.34
5230	-3.21	0.44	-2.77	11	-13.77
5270	-2.63	0.44	-2.19	11	-13.19
5310	-3.28	0.44	-2.84	11	-13.84
5510	-3.88	0.44	-3.44	11	-14.44
5550	-0.35	0.44	0.09	11	-10.91
5670	-3.11	0.44	-2.67	11	-13.67
5710 (band 3)	-0.54	0.74	0.20	11	-10.80
5710 (band 4)	-4.99	0.73	-4.26	11	-15.26
5755	7.97	0.44	7.97	30	-22.03
5795	8.26	0.44	8.26	30	-21.74

POWER DENSITY 802.11ac VHT80 MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-6.24	0.87	-5.37	11	-16.37
5290	-5.17	0.87	-4.30	11	-15.30
5530	-7.82	0.87	-6.95	11	-17.95
5610	-2.91	0.87	-2.04	11	-13.04
5690 (band 3)	-7.76	0.76	-7.00	11	-18.00
5690 (band 4)	-13.63	0.00	-13.63	11	-24.63
5775	6.31	0.87	6.31	30	-23.69

EIRP spectral density 802.11a MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	3.66	3.57	7.23	10	-6.34
5220	3.43	3.57	7.00	10	-6.57
5240	2.35	3.57	5.92	10	-7.65

EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	4.36	3.57	7.92	10	-5.64
5220	3.54	3.57	7.10	10	-6.46
5240	2.46	3.57	6.02	10	-7.54

EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-3.34	3.57	0.23	10	-13.34
5220	-2.77	3.57	0.80	10	-12.77

EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-5.37	3.57	-1.80	10	-15.37

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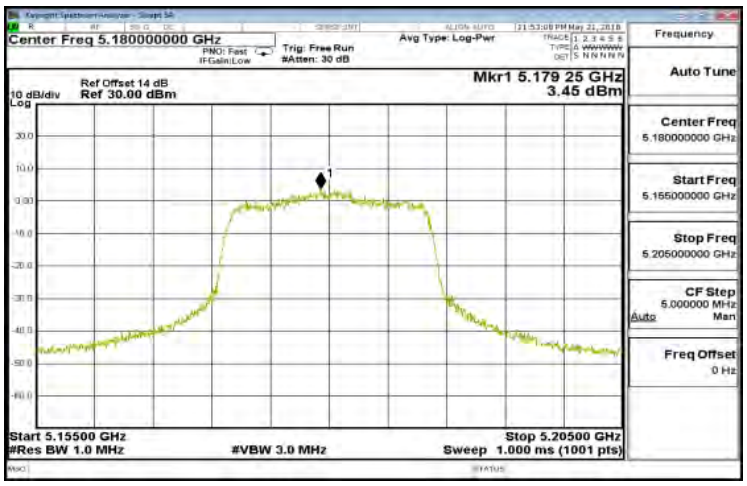
802.11a_20MHz_5180MHz



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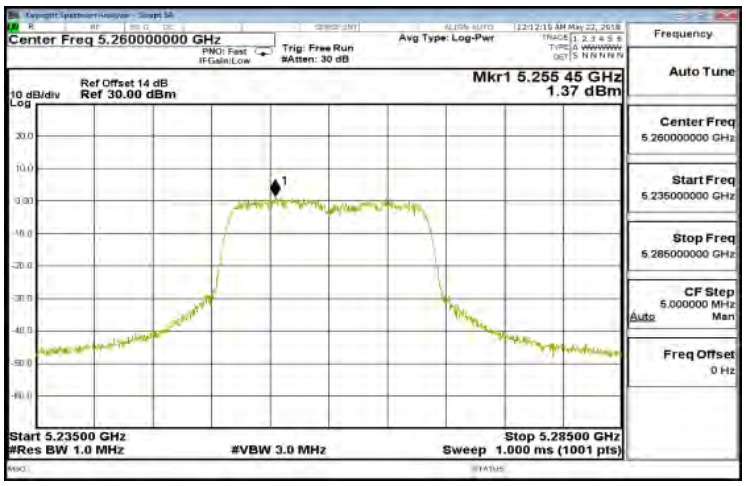

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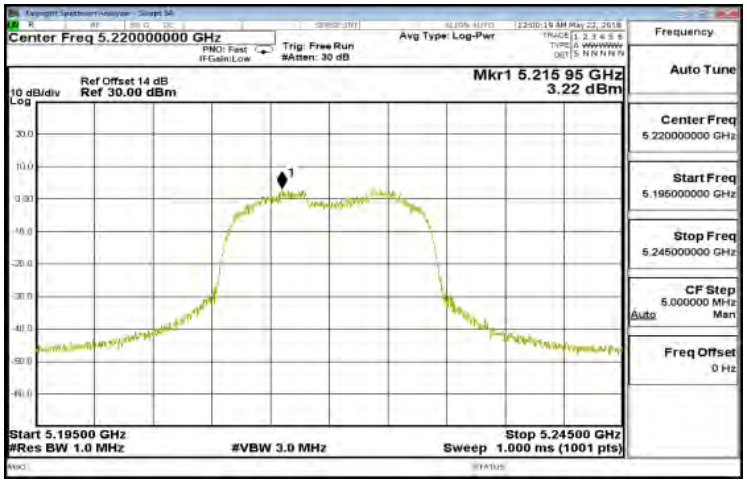

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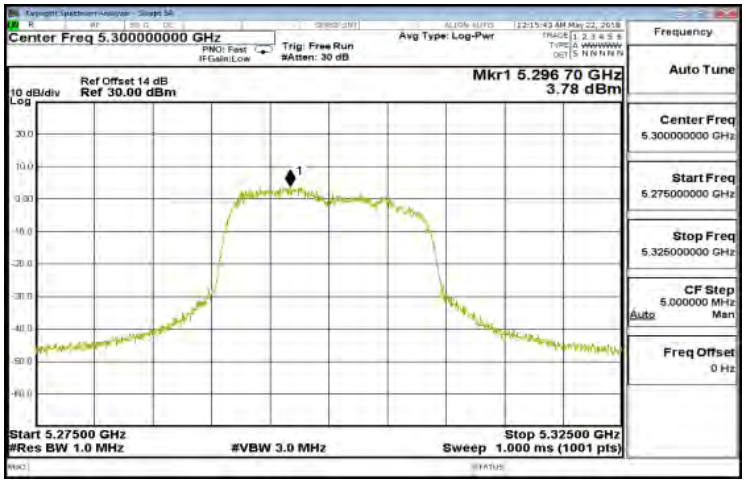

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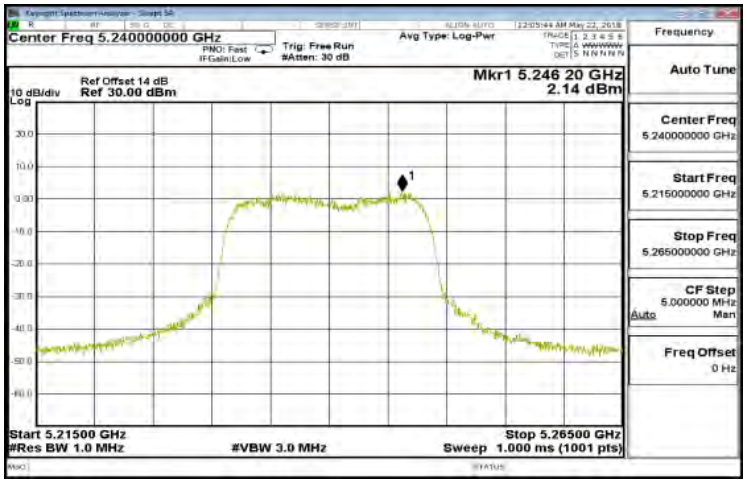

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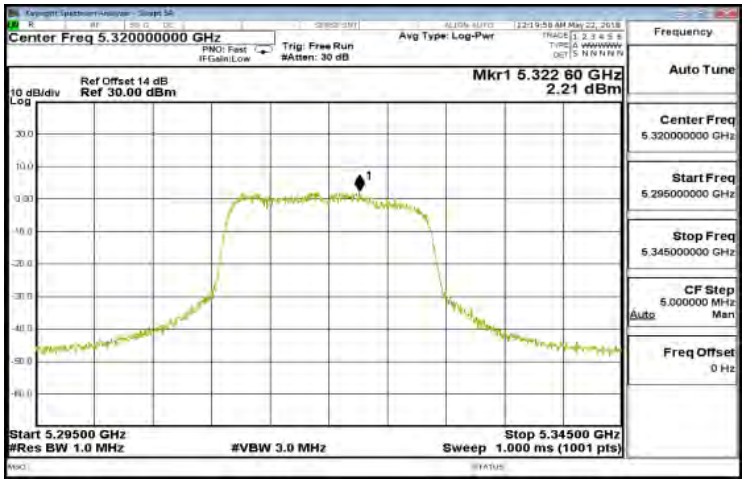

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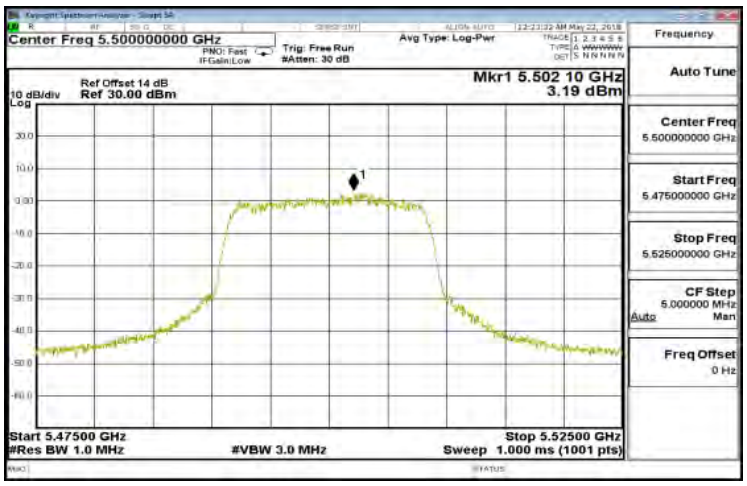
802.11a_20MHz_5500MHz



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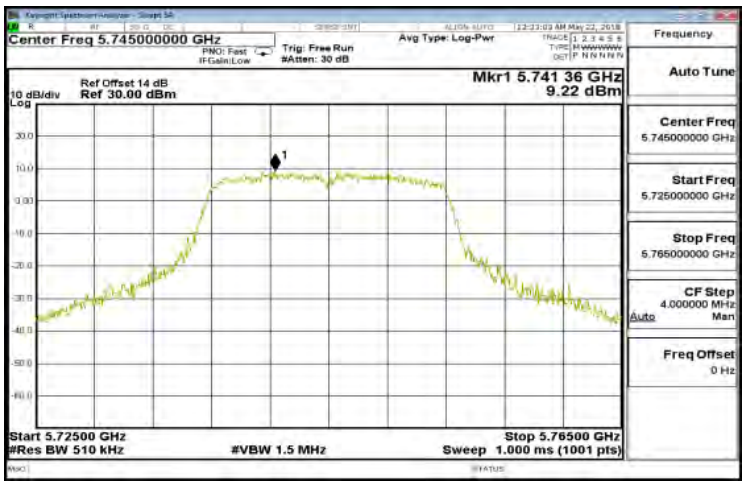

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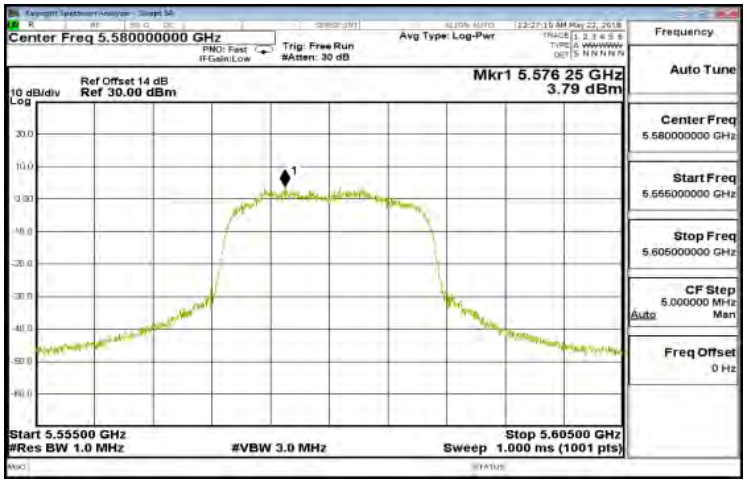

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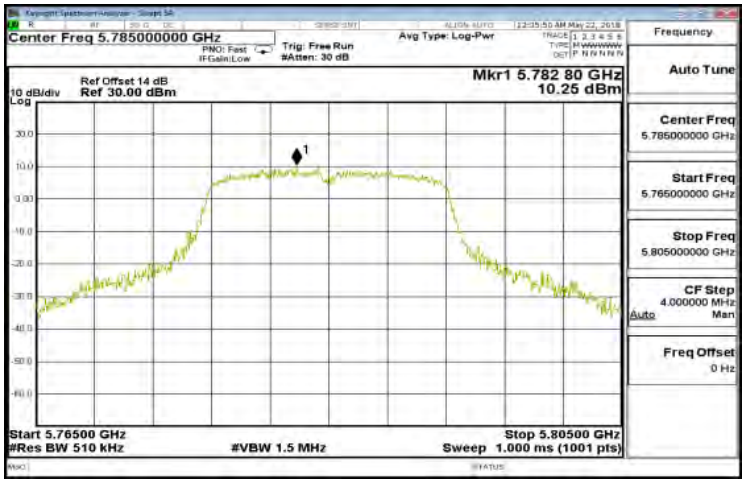

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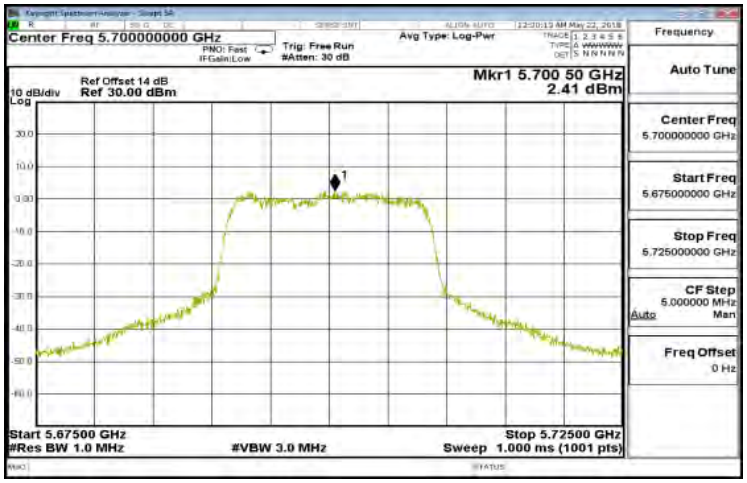
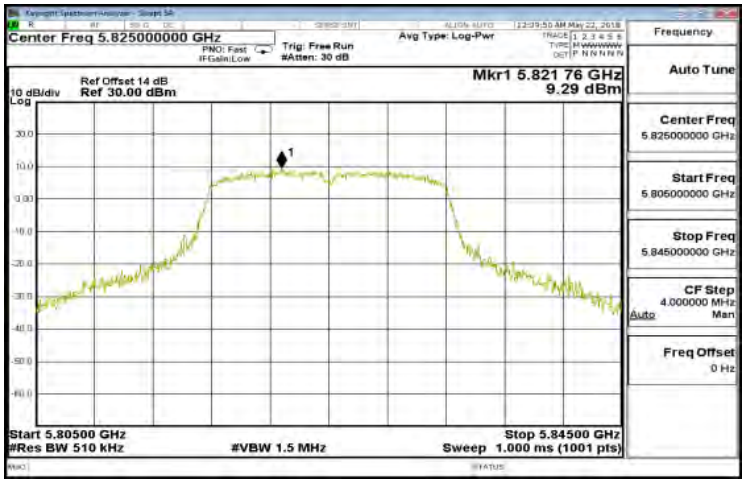


802.11a_20MHz_5825MHz



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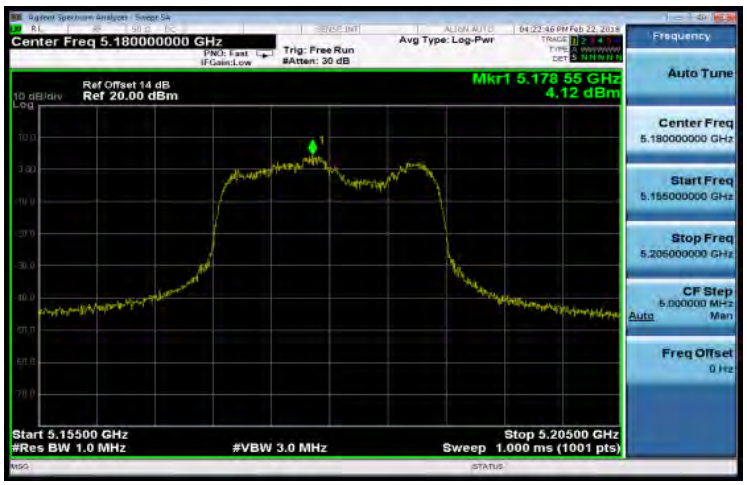
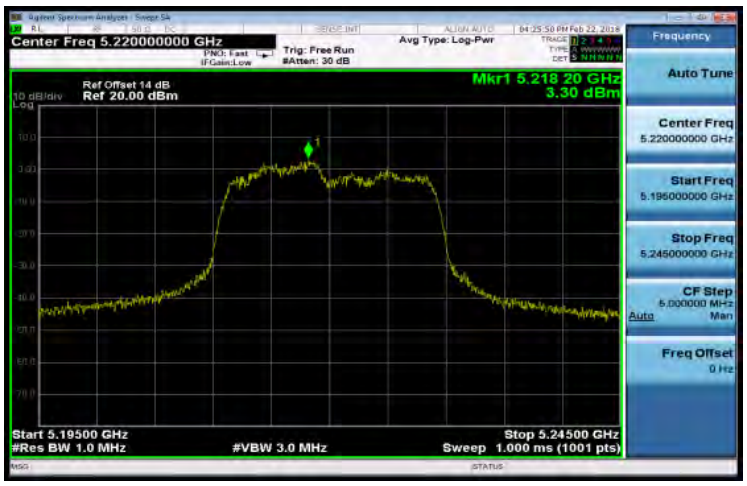
802.11n_20MHz_5180MHz



802.11n_20MHz_5260MHz

802.11n_20MHz_5220MHz



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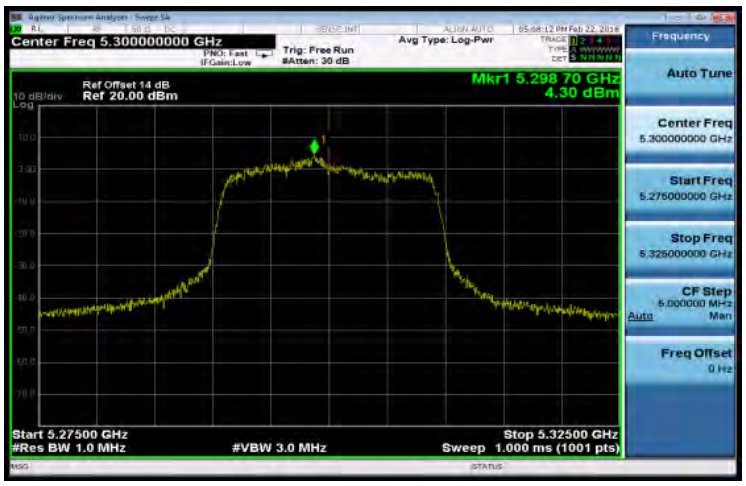

802.11n_20MHz_5240MHz

802.11n_20MHz_5320MHz

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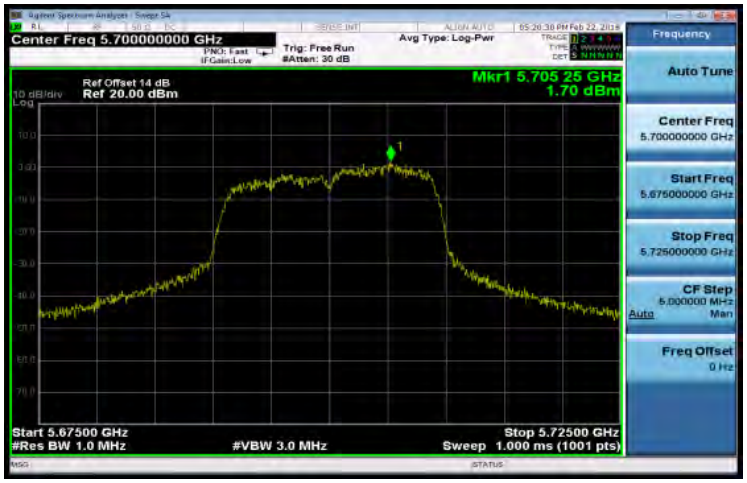
802.11n_20MHz_5500MHz

802.11n_20MHz_5720MHz

802.11n_20MHz_5580MHz

802.11n_20MHz_5700MHz



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802.11n_20MHz_5745MHz

802.11n_20MHz_5785MHz

802.11n_20MHz_5825MHz

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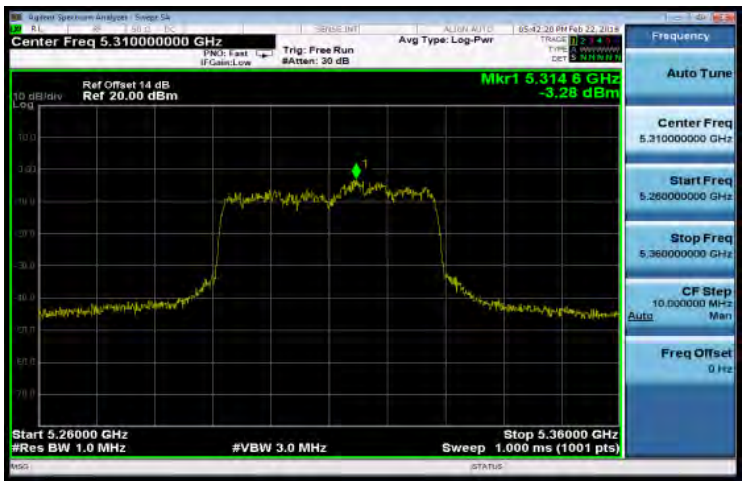
802.11n_40MHz_5190MHz

802.11n_40MHz_5310MHz



802.11n_40MHz_5230MHz

802.11n_40MHz_5510MHz

802.11n_40MHz_5270MHz

802.11n_40MHz_5550MHz

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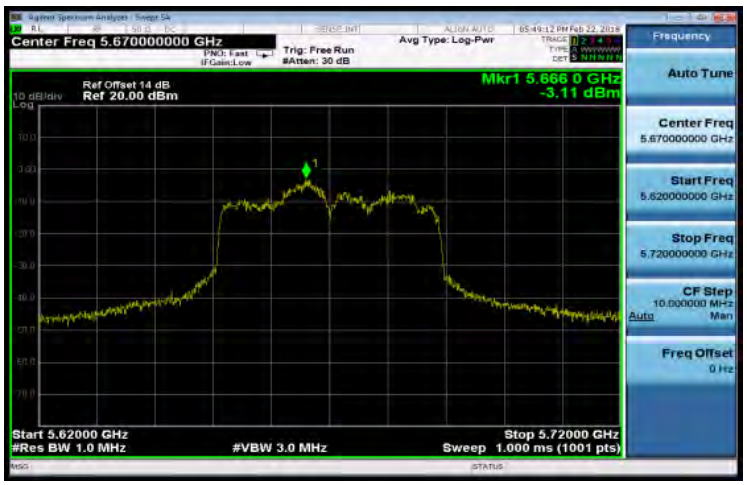
802.11n_40MHz_5670MHz



802.11n_40MHz_5795MHz

802.11n_40MHz_5710MHz

802.11n_40MHz_5755MHz

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802.11ac_80MHz_5210MHz

802.11ac_80MHz_5610MHz

802.11ac_80MHz_5290MHz

802.11ac_80MHz_5690MHz

802.11ac_80MHz_5530MHz

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

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

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

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

Note:

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

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11.2 Measurement Equipment Used

SGS SAC-III					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
EMI Test Receiver	R&S	ESU 40	100363	04/11/2018	04/10/2019
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2017	12/22/2018
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2017	11/02/2018
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2017	12/16/2018
Horn Antenna	Schwarzbeck	BBHA9170	185	08/01/2017	07/31/2018
Pre Amplifier	EMC Instruments	EMC330	980096	12/24/2017	12/23/2018
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/24/2017	12/23/2018
Pre Amplifier	R&S	SCU-18	10204	12/24/2017	12/23/2018
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF27	12/24/2017	12/23/2018
Site NSA	SGS	966 Chamber C	SAC-C	03/02/2018	03/01/2019
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2018	03/01/2019
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2018	05/03/2019
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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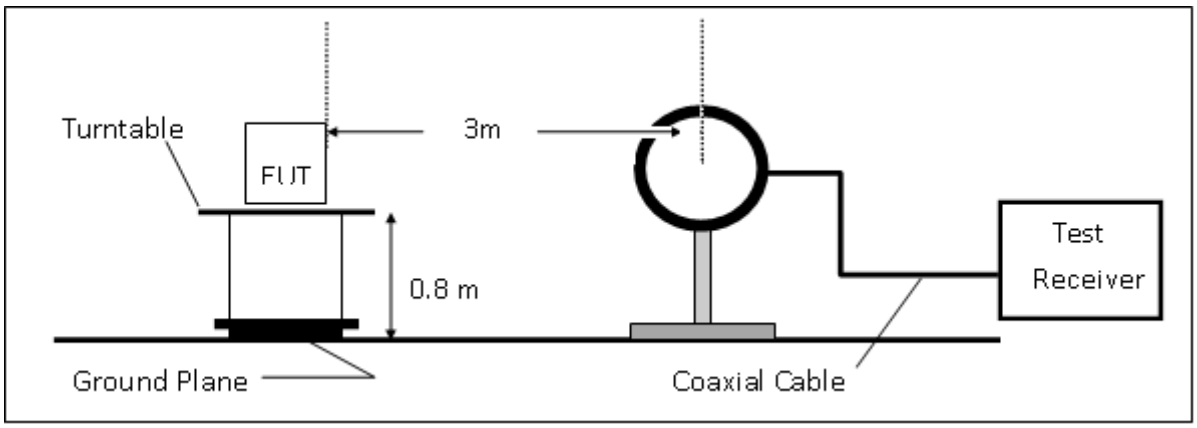
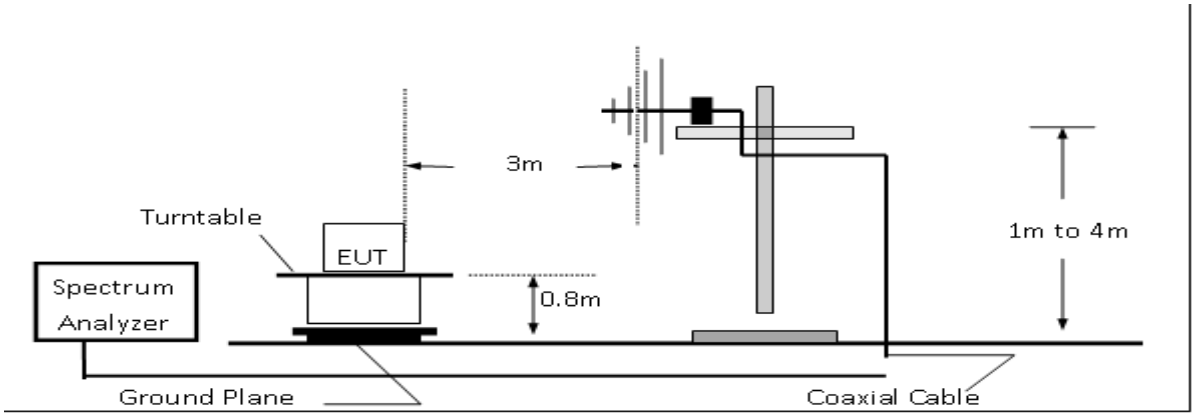
11.3 Test SET-UP

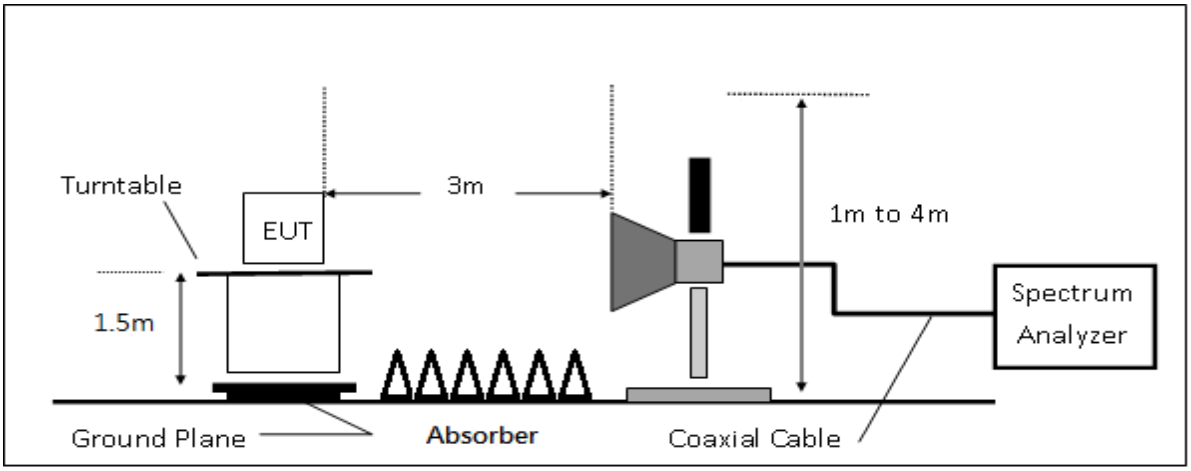
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

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

11.5 Field Strength Calculation

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

FS = RA + AF + CL - AG

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

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

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

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Note :

"**F**" : denotes Fundamental Frequency. ; "**H**" : denotes Harmonic Frequency.

"**E**" : denotes Band Edge Frequency. ; "**S**" : denotes Spurious Frequency.

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

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

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

11.7 Measurement Result

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

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

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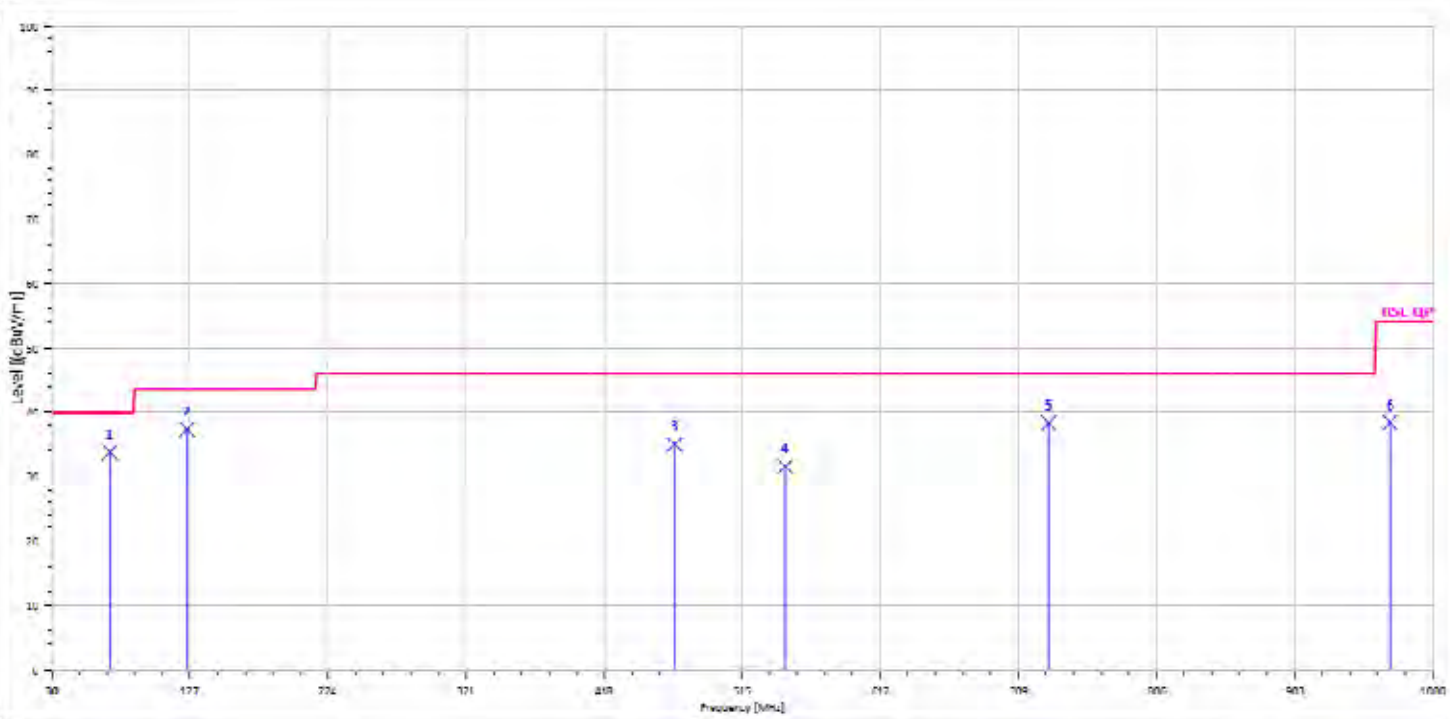
Radiated Spurious Emission Measurement Result
Below 1GHz Worst-Case Data:
802.11a 5150~5250 MHz

Operation Mode :	802.11aB1	Test Date :	2018/5/22
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
70.74	S	Peak	53.21	-19.45	33.76	40	-6.24
125.06	S	Peak	55.45	-18.16	37.29	43.5	-6.21
467.47	S	Peak	46.12	-11.15	34.98	46	-11.02
545.07	S	Peak	42.04	-10.51	31.52	46	-14.48
730.34	S	Peak	45.98	-7.73	38.25	46	-7.75
969.93	S	Peak	42.41	-4.07	38.35	54	-15.65

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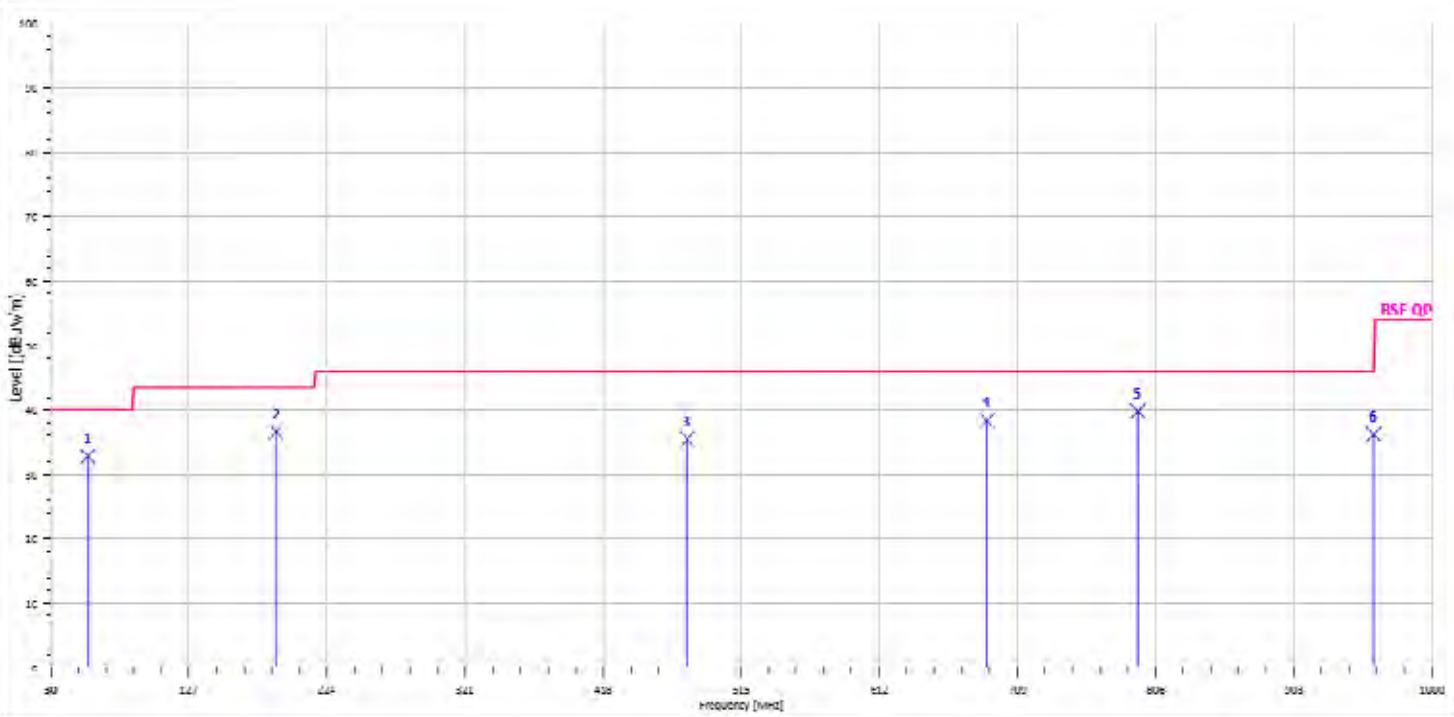
Operation Mode :	802.11aB1	Test Date :	2018/5/22
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
56.19	S	Peak	50.50	-17.69	32.81	40	-7.19
188.11	S	Peak	55.19	-18.60	36.59	43.5	-6.91
477.17	S	Peak	46.60	-11.09	35.50	46	-10.50
687.66	S	Peak	46.46	-8.08	38.37	46	-7.63
793.39	S	Peak	46.68	-6.88	39.80	46	-6.20
959.26	S	Peak	40.66	-4.48	36.18	46	-9.82

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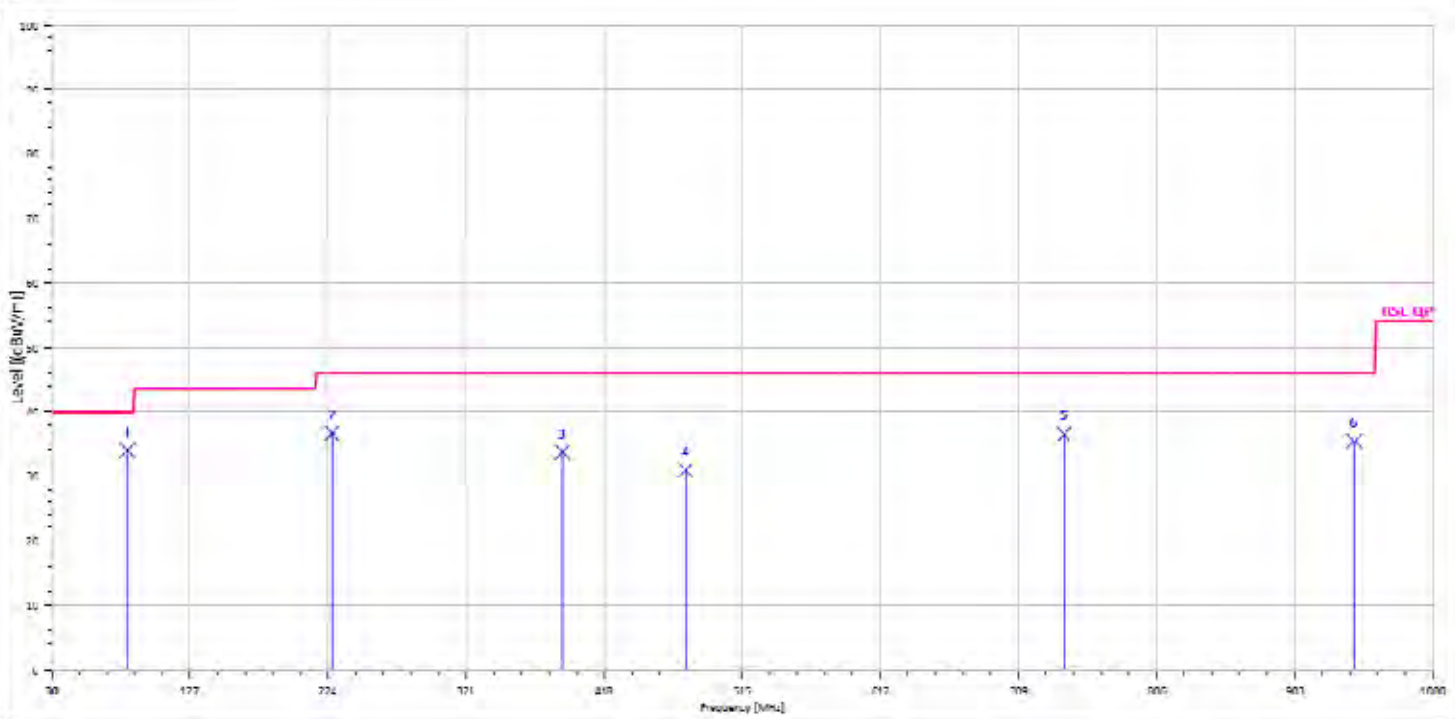
802.11a 5250~5350 MHz

Operation Mode :	802.11aB2	Test Date :	2018/5/22
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
83.35	S	Peak	55.60	-21.66	33.94	40	-6.06
226.91	S	Peak	54.68	-18.01	36.67	46	-9.33
388.90	S	Peak	46.85	-13.13	33.72	46	-12.28
475.23	S	Peak	42.04	-11.09	30.94	46	-15.06
741.01	S	Peak	43.94	-7.44	36.50	46	-9.50
944.71	S	Peak	40.01	-4.59	35.42	46	-10.58

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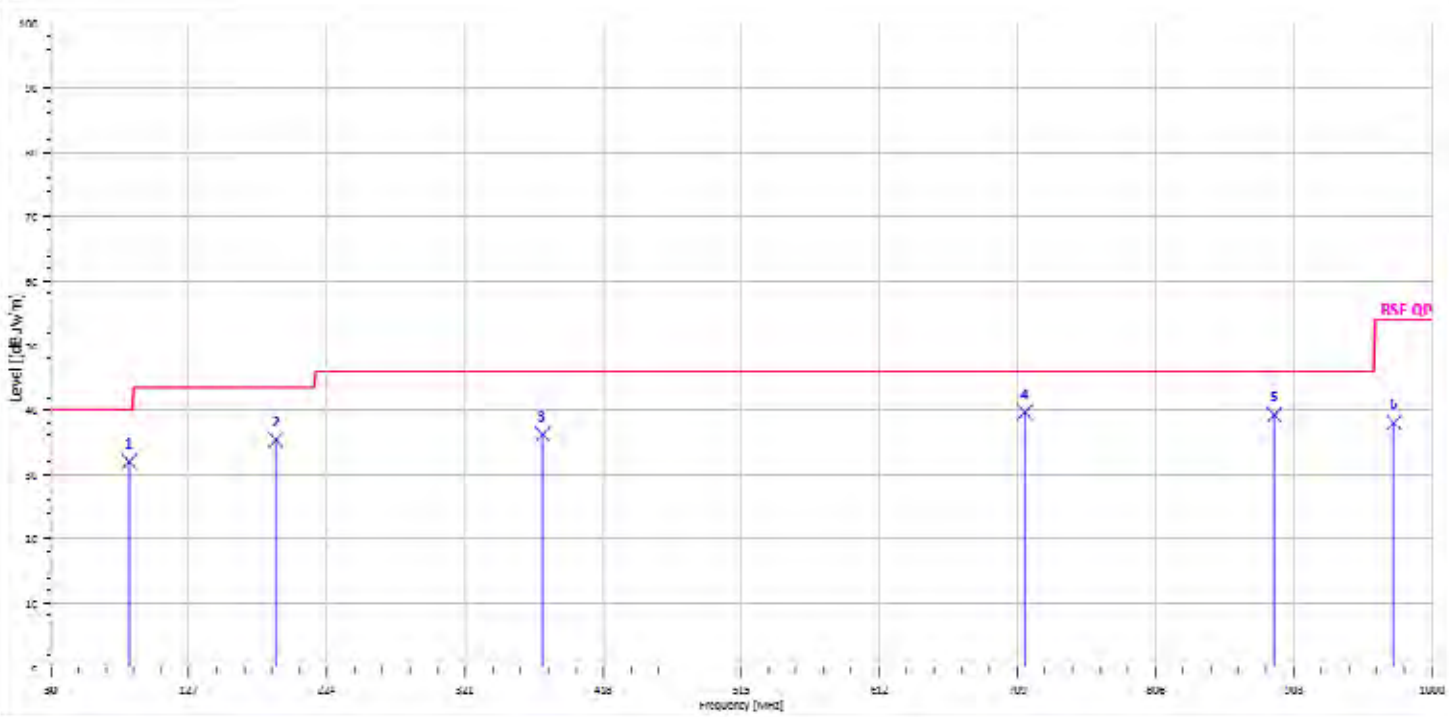
Operation Mode :	802.11aB2	Test Date :	2018/5/22
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
85.29	S	Peak	53.97	-21.99	31.98	40	-8.02
188.11	S	Peak	53.96	-18.60	35.36	43.5	-8.14
375.32	S	Peak	49.69	-13.52	36.17	46	-9.83
714.22	S	Peak	47.07	-7.41	39.66	46	-6.34
889.17	S	Peak	44.93	-5.67	39.26	46	-6.74
973.44	S	Peak	42.09	-4.06	38.03	54	-15.97

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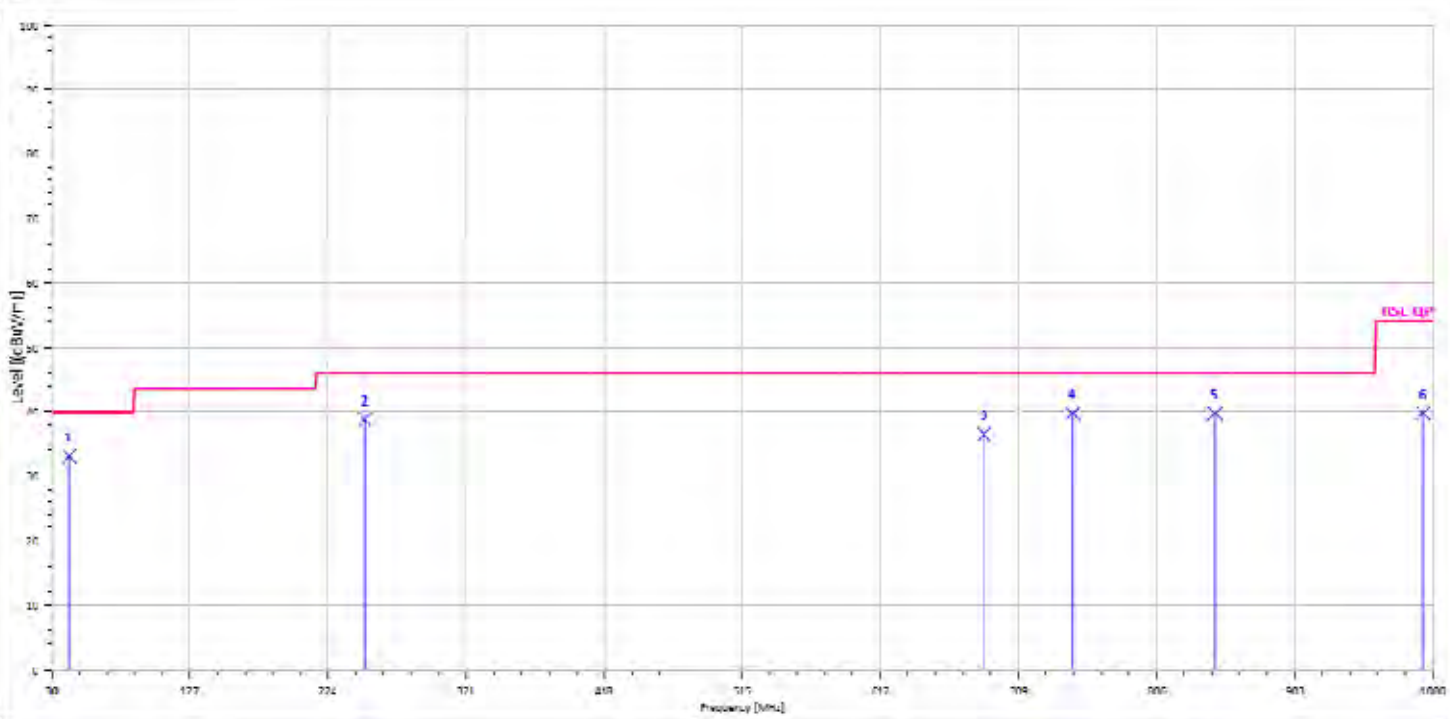
802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	2018/5/22
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
42.61	S	Peak	50.27	-17.18	33.10	40	-6.90
250.19	S	Peak	55.84	-17.05	38.79	46	-7.21
684.75	S	Peak	44.81	-8.30	36.51	46	-9.49
747.20	S	Peak	46.72	-7.02	39.71	46	-6.29
847.03	S	Peak	45.64	-5.93	39.71	46	-6.29
993.21	S	Peak	43.73	-3.97	39.76	54	-14.24

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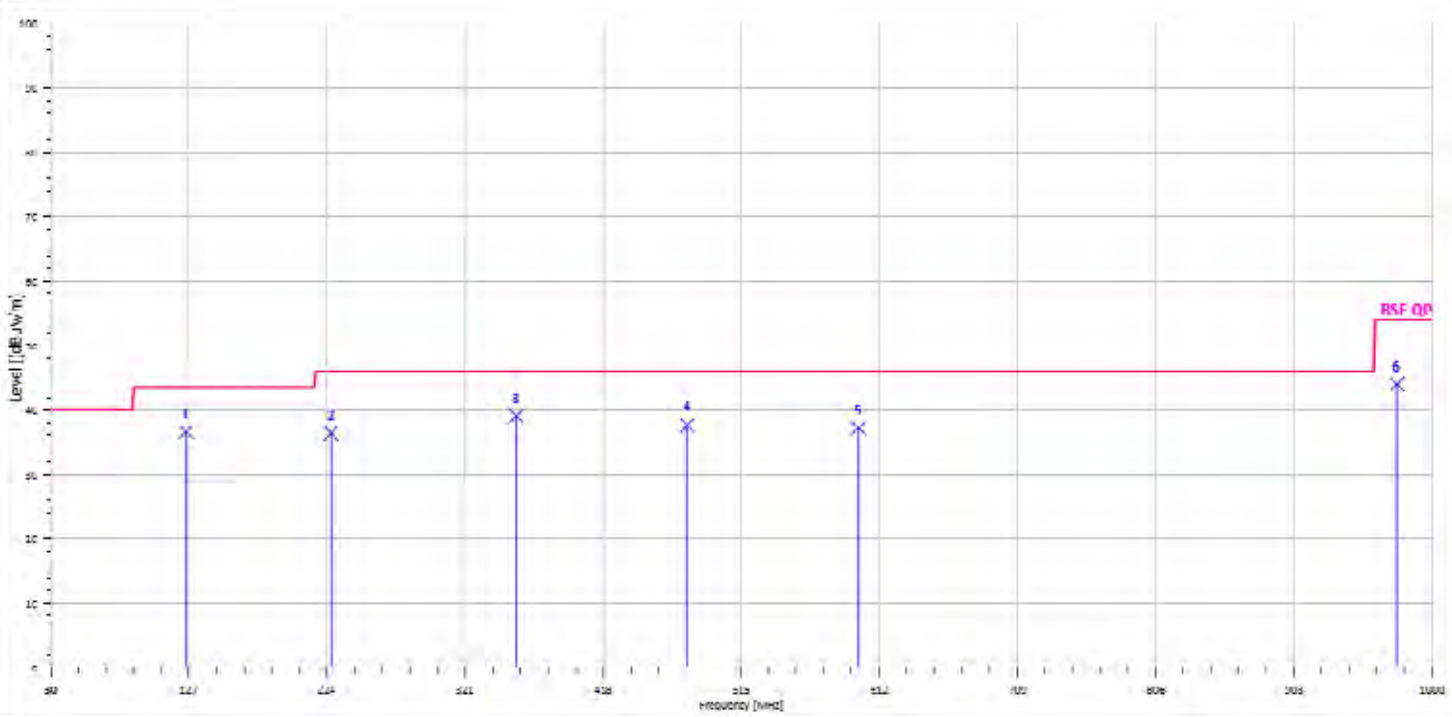
Operation Mode :	802.11aB3	Test Date :	2018/5/22
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
125.06	S	Peak	54.76	-18.16	36.60	43.5	-6.90
226.91	S	Peak	54.37	-18.01	36.37	46	-9.63
356.89	S	Peak	53.19	-14.10	39.09	46	-6.91
477.17	S	Peak	48.73	-11.09	37.64	46	-8.36
597.45	S	Peak	46.43	-9.22	37.21	46	-8.79
975.75	S	Peak	48.08	-4.06	44.02	54	-9.98

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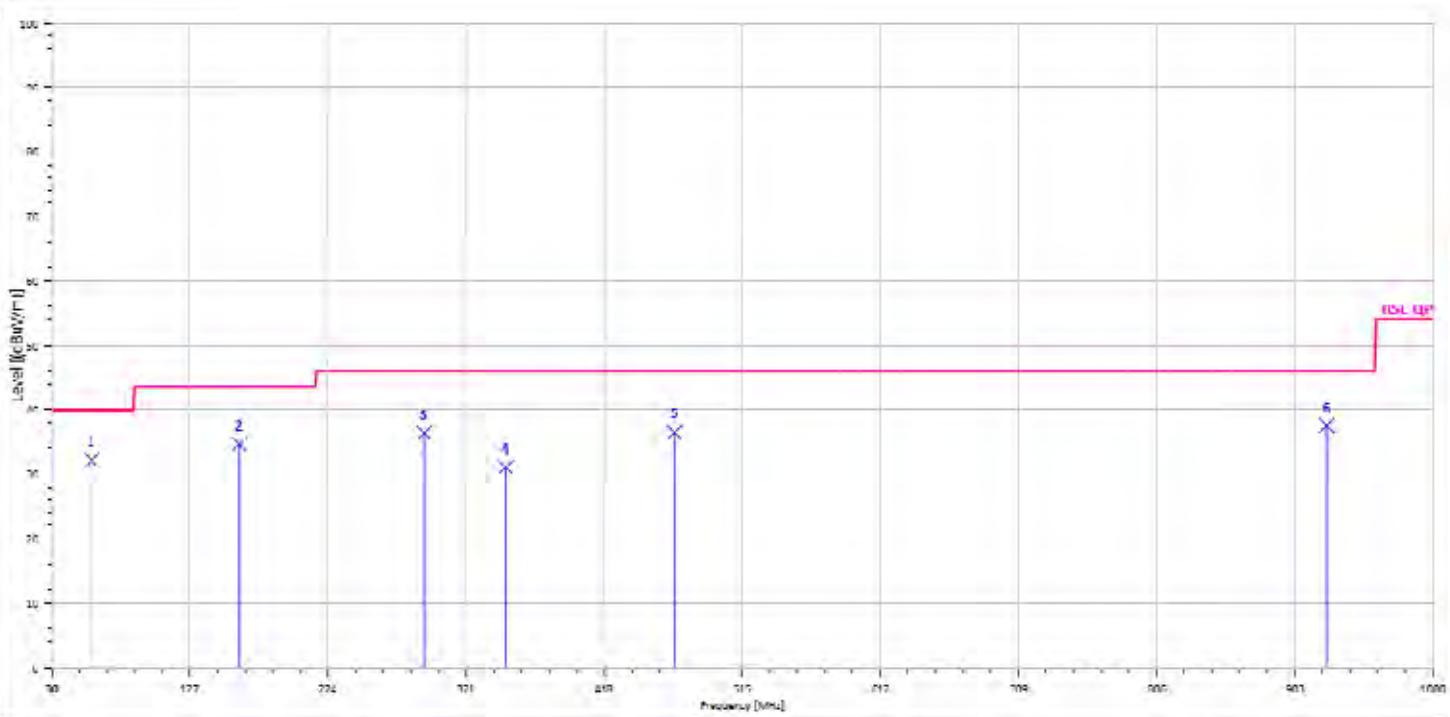
802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	2018/5/22
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
58.13	S	Peak	49.98	-17.84	32.14	40	-7.86
161.92	S	Peak	50.34	-15.71	34.63	43.5	-8.87
291.90	S	Peak	51.83	-15.45	36.39	46	-9.61
349.13	S	Peak	45.29	-14.27	31.03	46	-14.97
467.47	S	Peak	47.62	-11.15	36.47	46	-9.53
925.31	S	Peak	42.40	-4.88	37.52	46	-8.48

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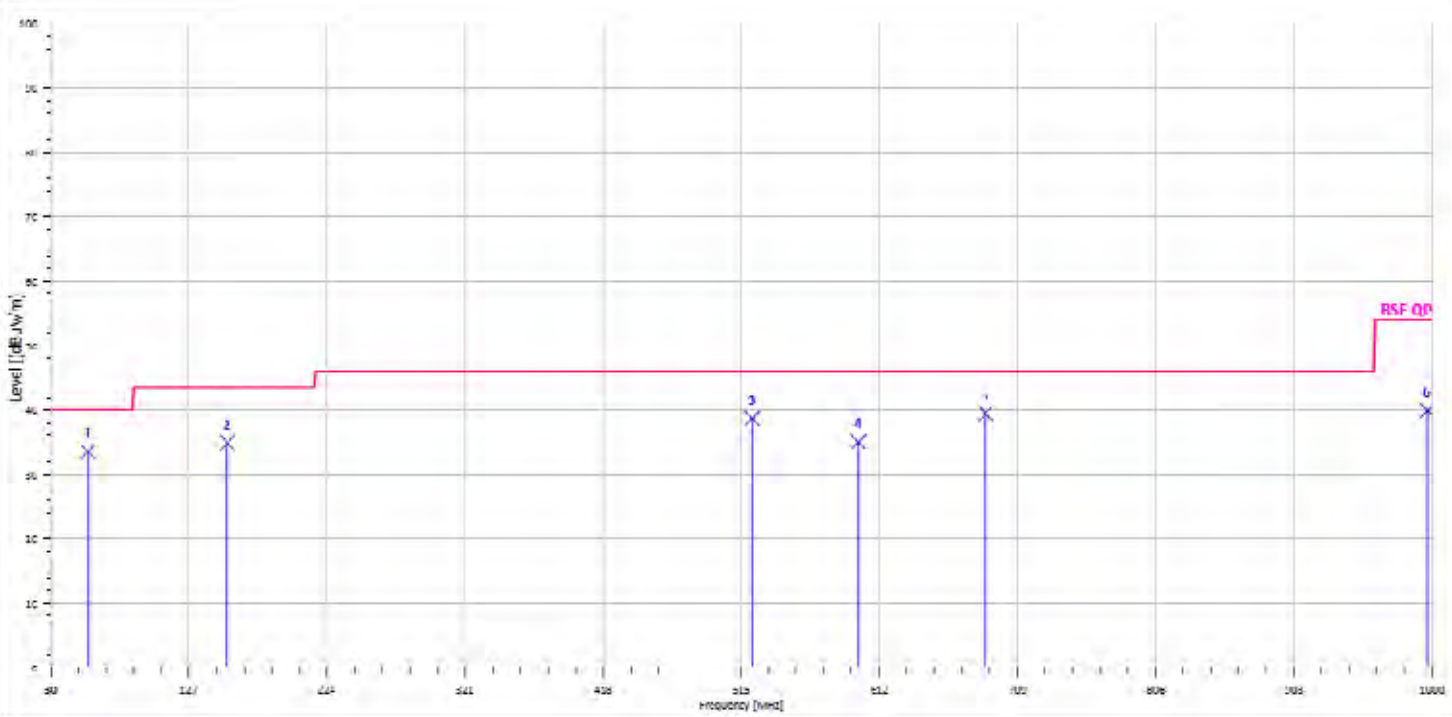
Operation Mode :	802.11aB4	Test Date :	2018/5/22
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
56.19	S	Peak	51.22	-17.69	33.53	40	-6.47
154.16	S	Peak	50.64	-15.70	34.93	43.5	-8.57
522.76	S	Peak	49.15	-10.43	38.73	46	-7.27
597.45	S	Peak	44.26	-9.22	35.05	46	-10.95
686.69	S	Peak	47.63	-8.15	39.48	46	-6.52
997.09	S	Peak	43.72	-3.83	39.90	54	-14.10

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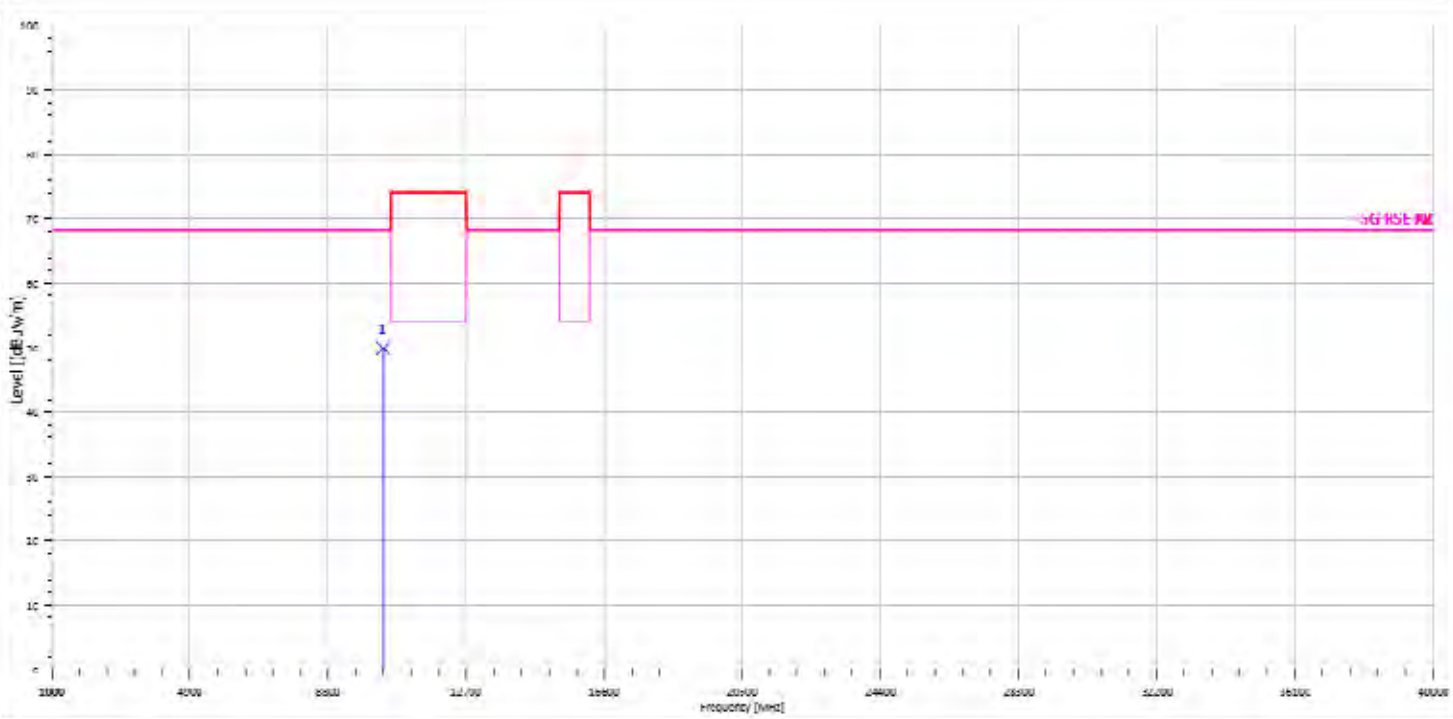
Above 1GHz Worst-Case Data:

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

Operation Mode :	802.11aB1	Test Date :	2018/5/22
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	H	Peak	40.64	9.27	49.91	68.3	-18.39

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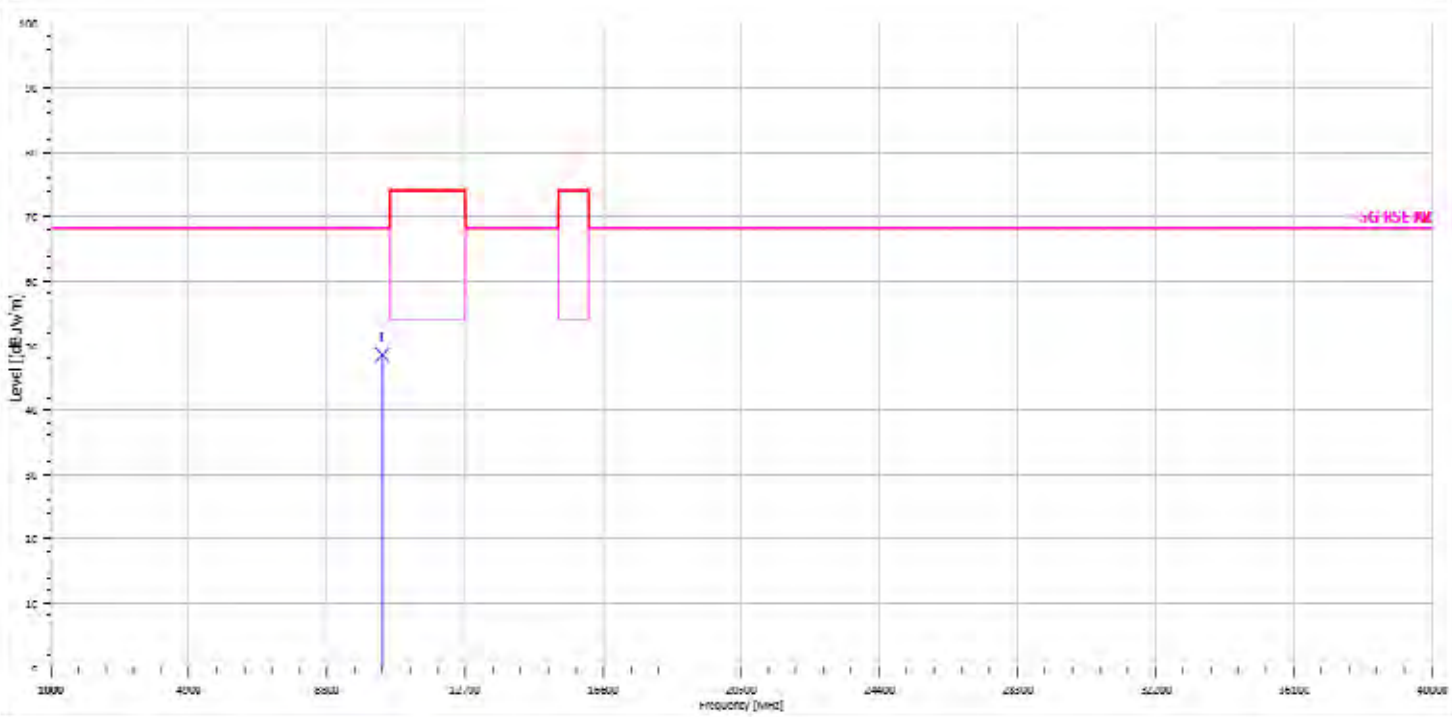
Operation Mode :	802.11aB1	Test Date :	2018/5/22
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	H	Peak	39.28	9.27	48.55	68.3	-19.75

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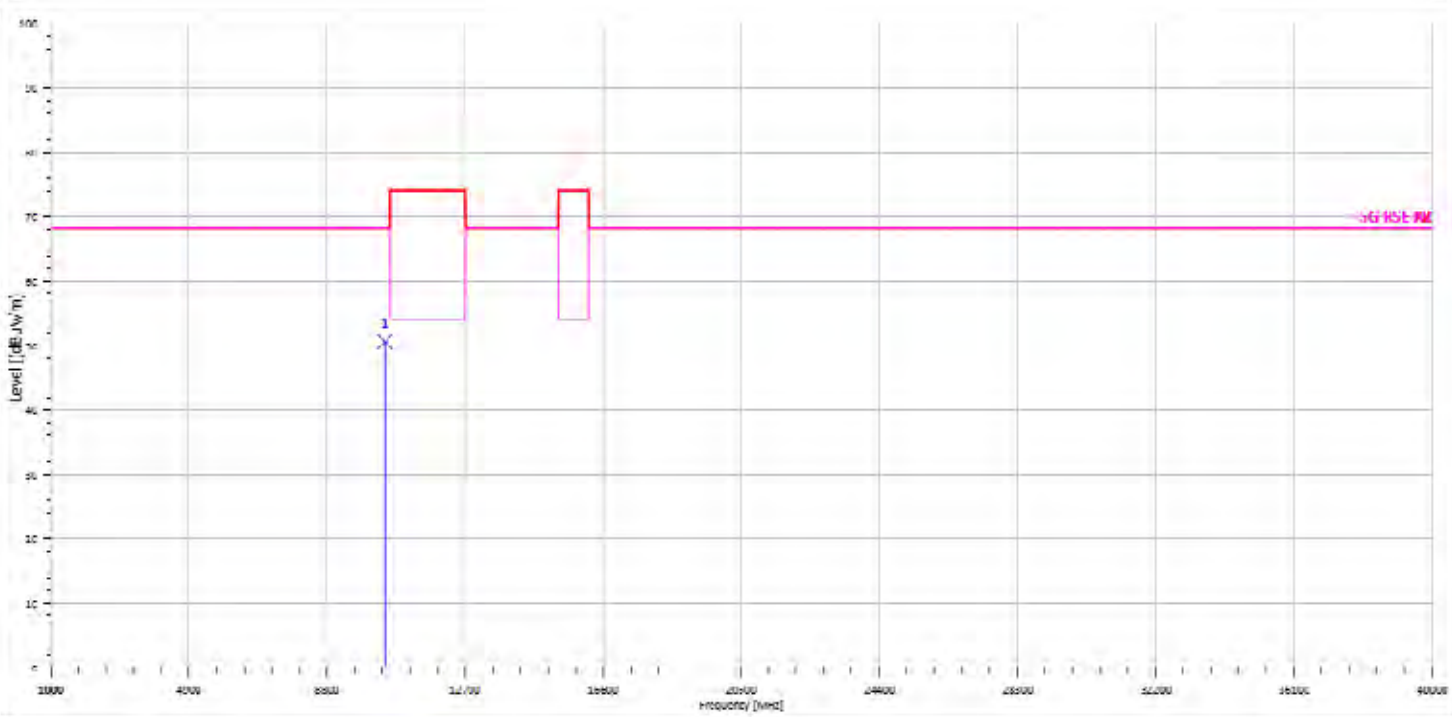
Operation Mode :	802.11aB1	Test Date :	2018/5/22
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	H	Peak	41.07	9.57	50.64	68.3	-17.66

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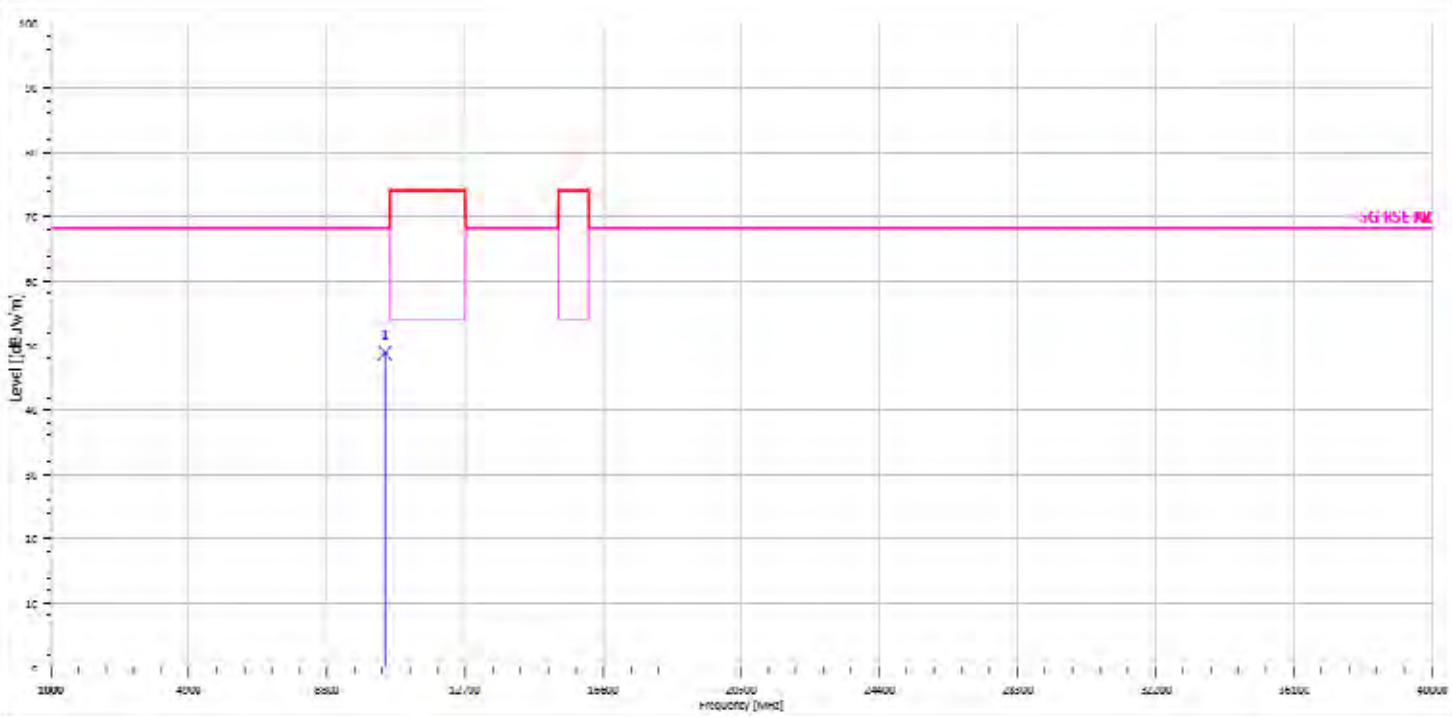
Operation Mode :	802.11aB1	Test Date :	2018/5/22
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	H	Peak	39.27	9.57	48.84	68.3	-19.46

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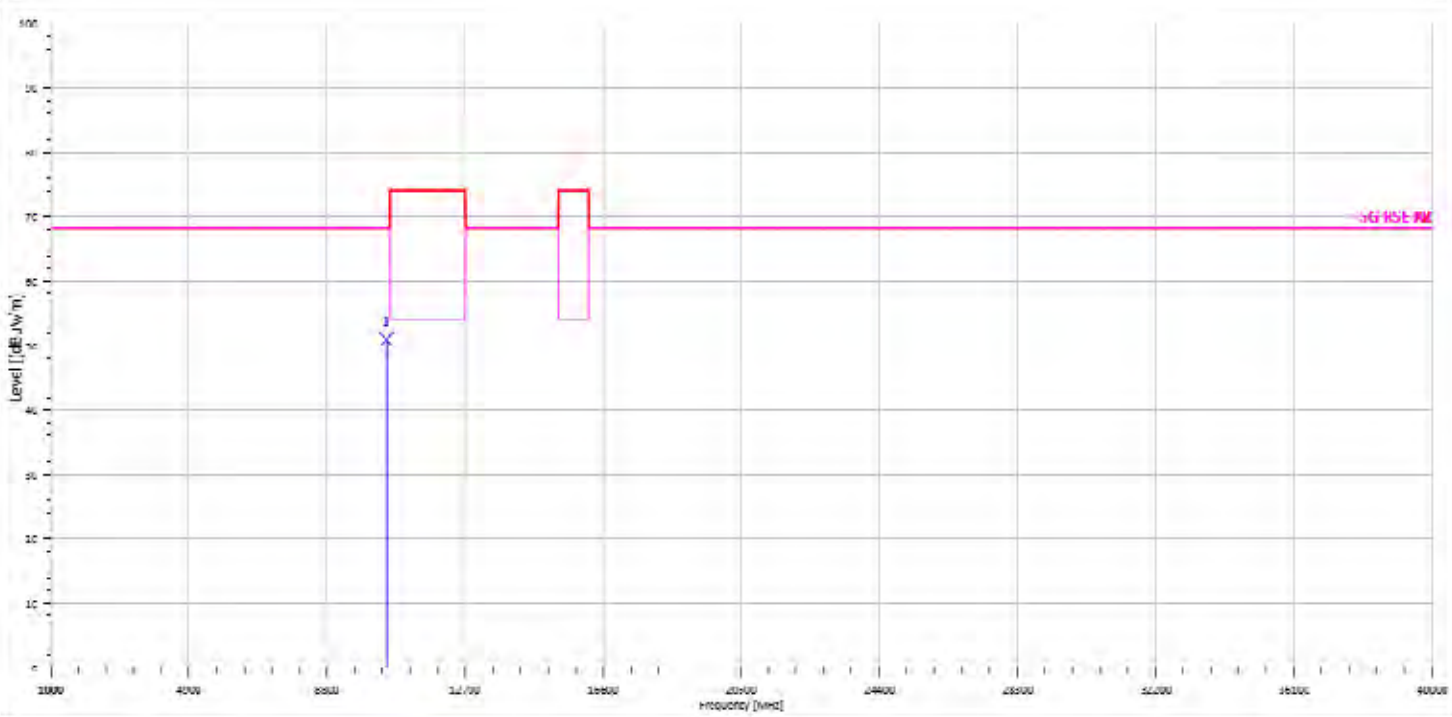
Operation Mode :	802.11aB1	Test Date :	2018/5/22
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	H	Peak	41.33	9.64	50.97	68.3	-17.33

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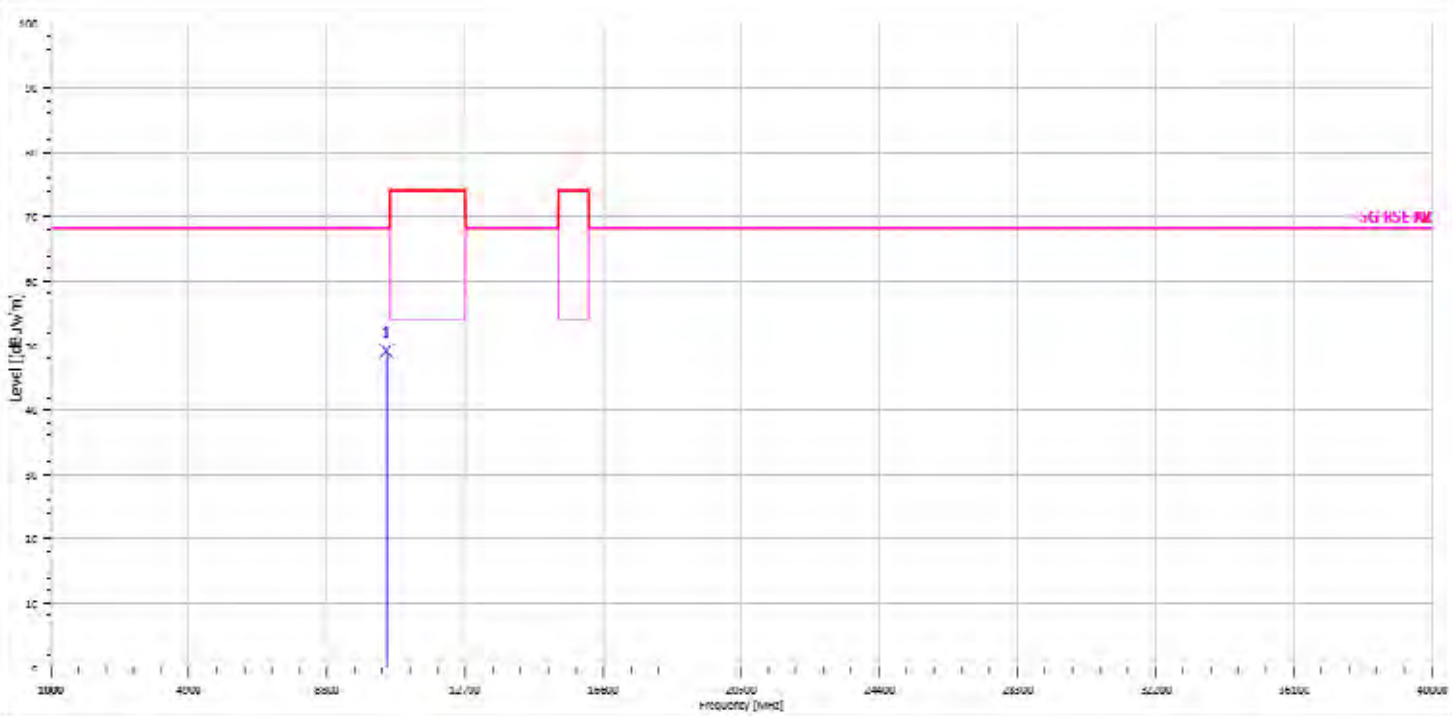
Operation Mode :	802.11aB1	Test Date :	2018/5/22
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	H	Peak	39.54	9.64	49.18	68.3	-19.12

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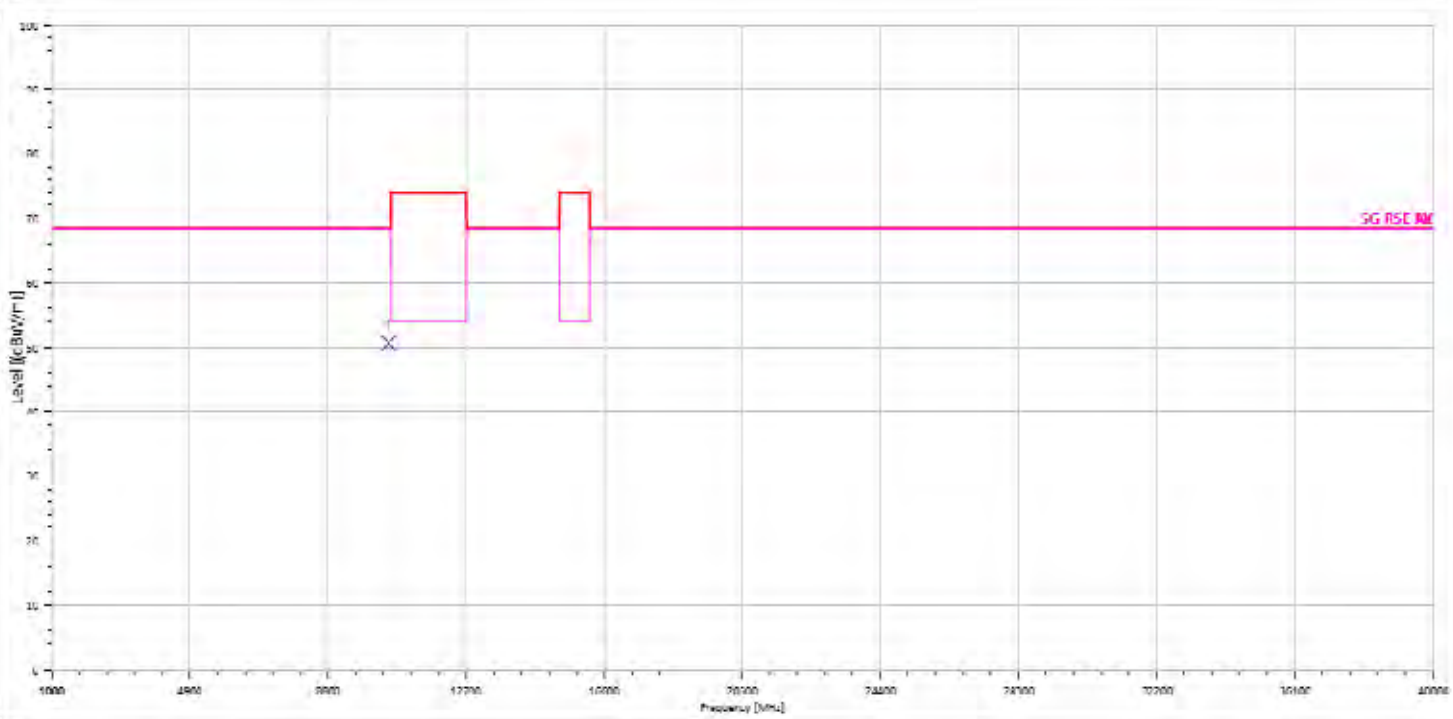
Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11aB2	Test Date :	2018/5/22
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	H	Peak	40.83	9.77	50.61	68.3	-17.69

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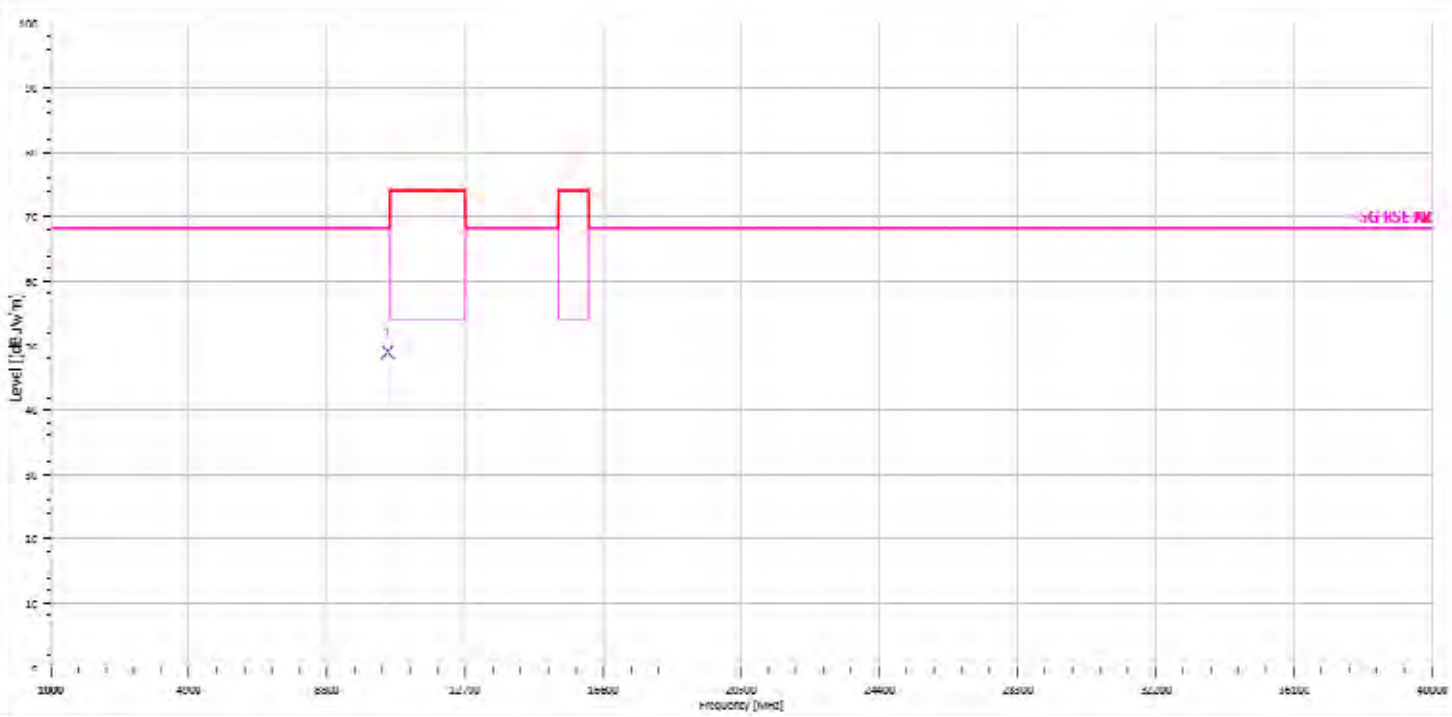
Operation Mode :	802.11aB2	Test Date :	2018/5/22
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	H	Peak	39.23	9.77	49.00	68.3	-19.30

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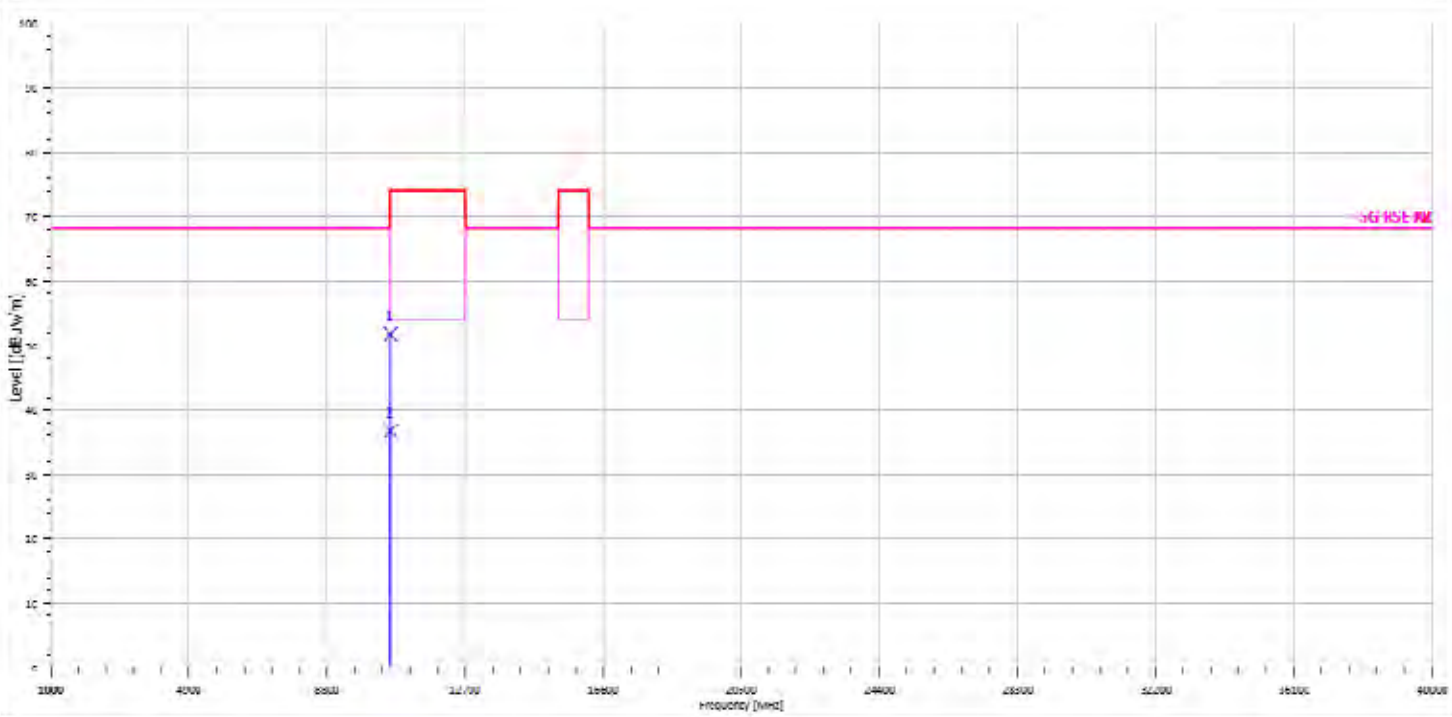
Operation Mode :	802.11aB2	Test Date :	2018/5/22
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10600.00	H	Peak	41.64	10.15	51.79	74	-22.21
10600.00	H	Average	26.59	10.15	36.74	54	-17.26

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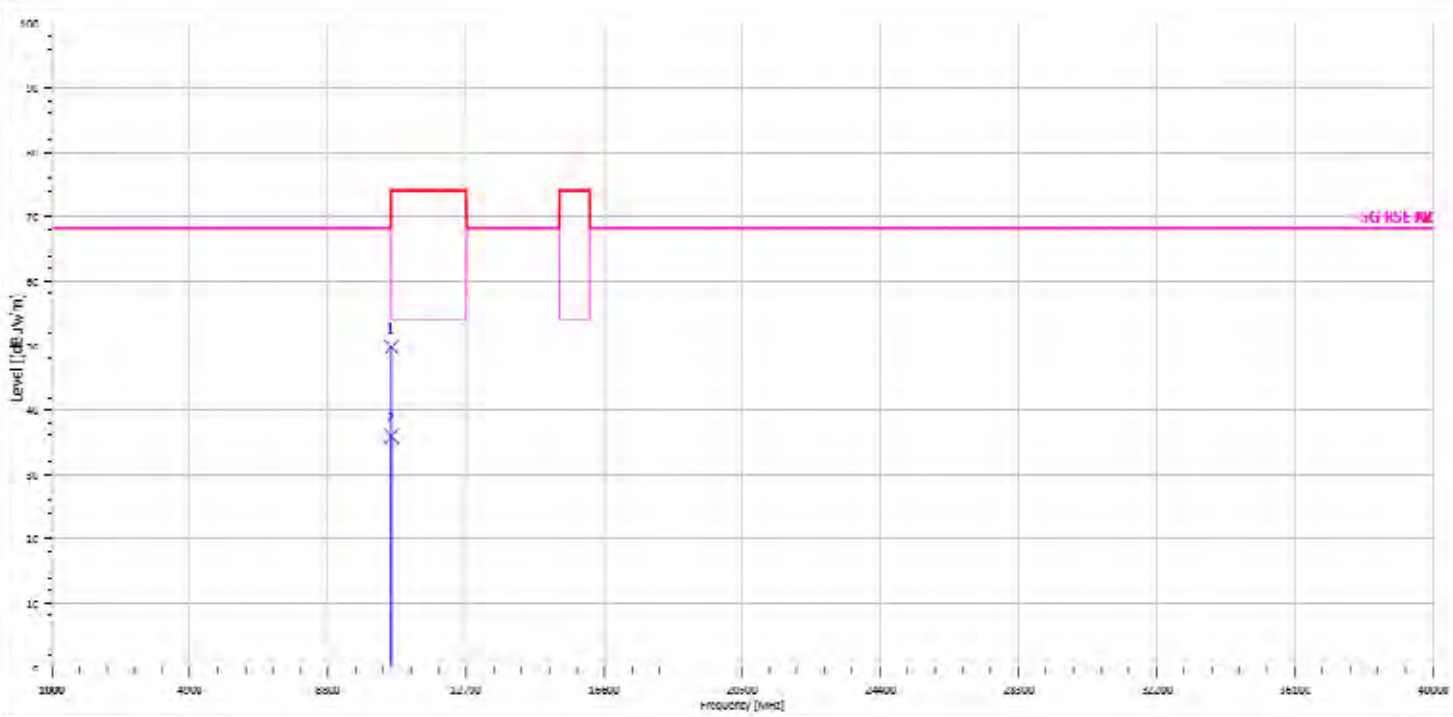
Operation Mode :	802.11aB2	Test Date :	2018/5/22
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10600.00	H	Peak	39.63	10.15	49.78	74	-24.22
10600.00	H	Average	25.77	10.15	35.92	54	-18.08

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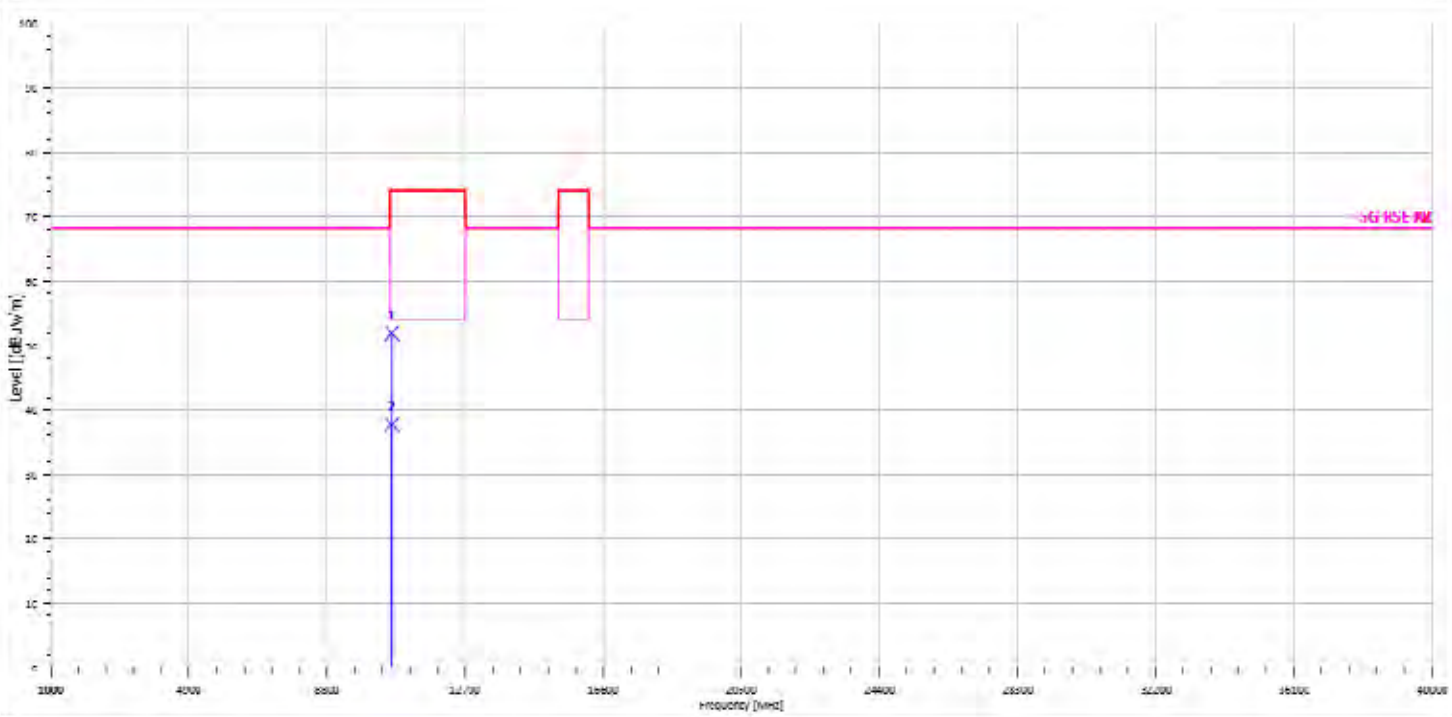
Operation Mode :	802.11aB2	Test Date :	2018/5/22
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	H	Peak	41.87	10.07	51.94	74	-22.06
10640.00	H	Average	27.65	10.07	37.72	54	-16.28

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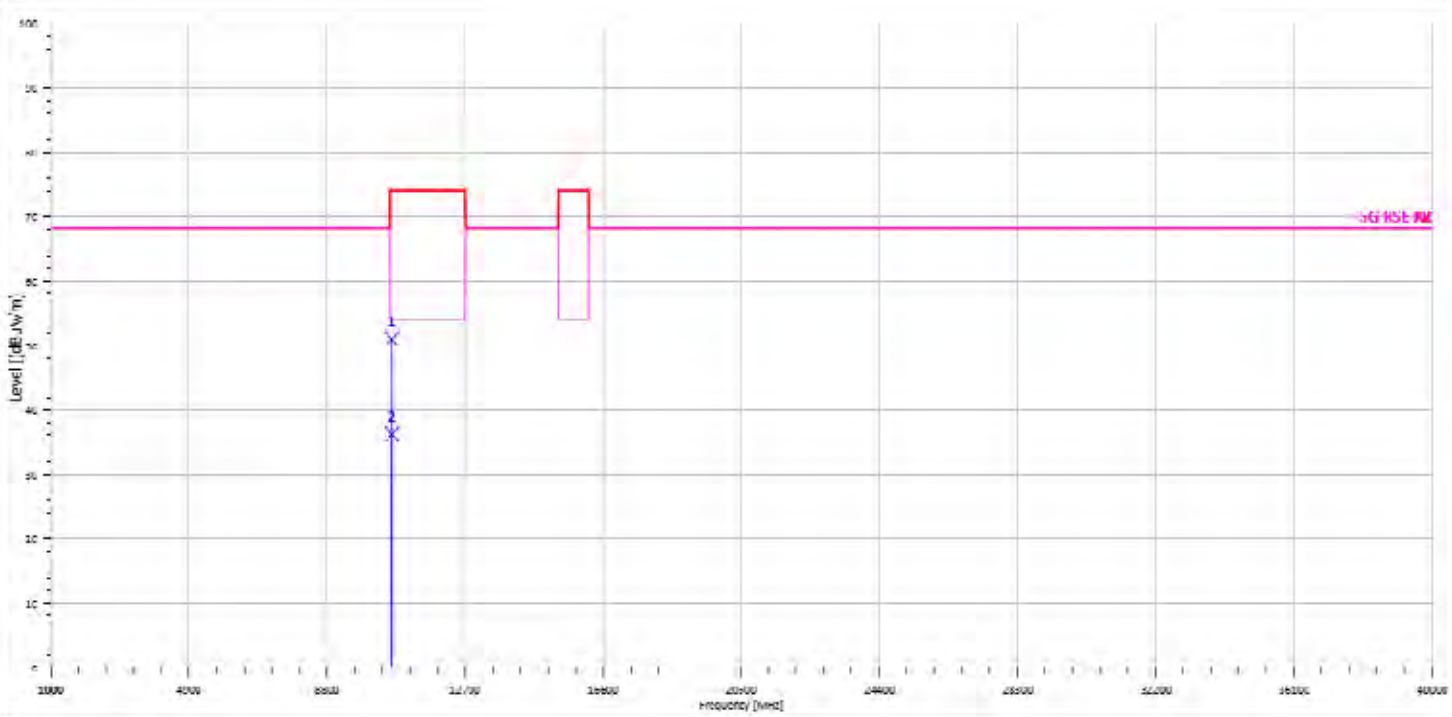
Operation Mode :	802.11aB2	Test Date :	2018/5/22
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	H	Peak	40.94	10.07	51.01	74	-22.99
10640.00	H	Average	26.13	10.07	36.20	54	-17.80

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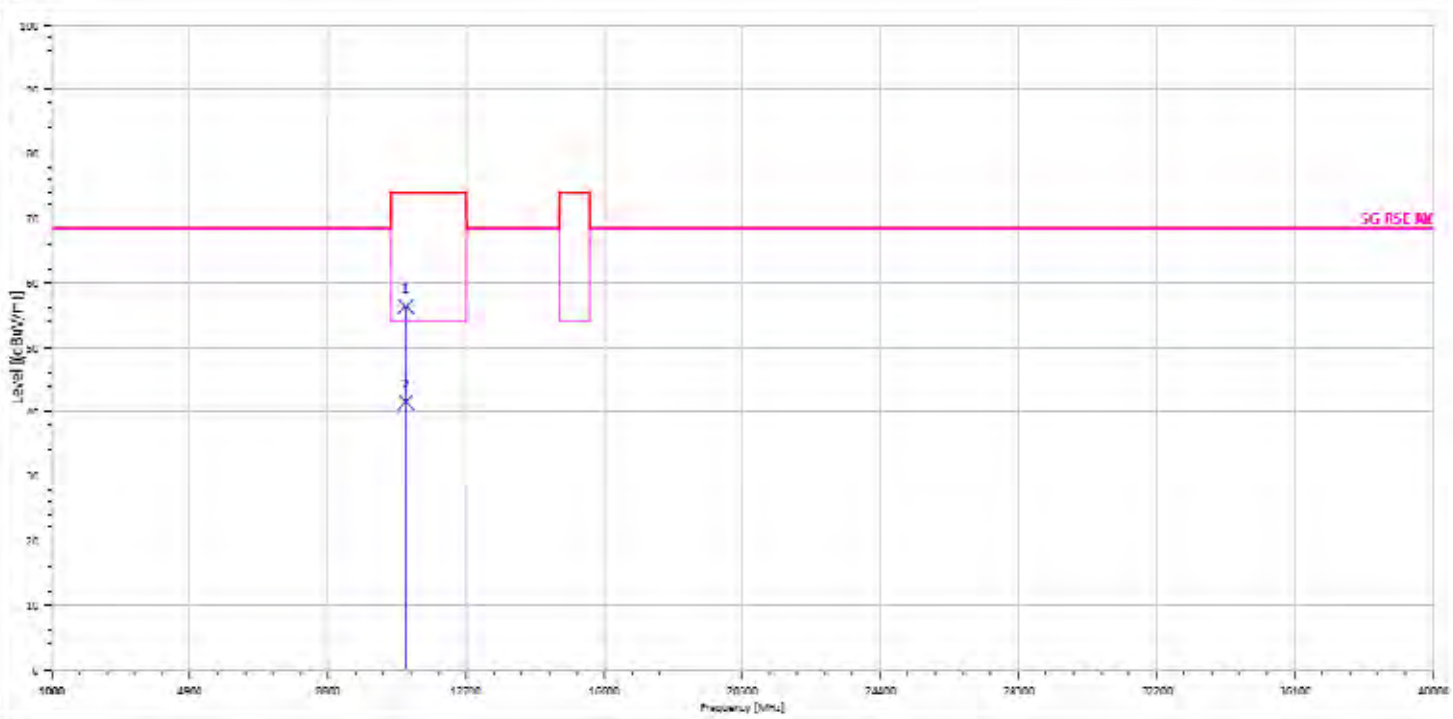
Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	2018/5/22
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	H	Peak	44.59	11.71	56.30	74	-17.70
11000.00	H	Average	29.80	11.71	41.51	54	-12.50

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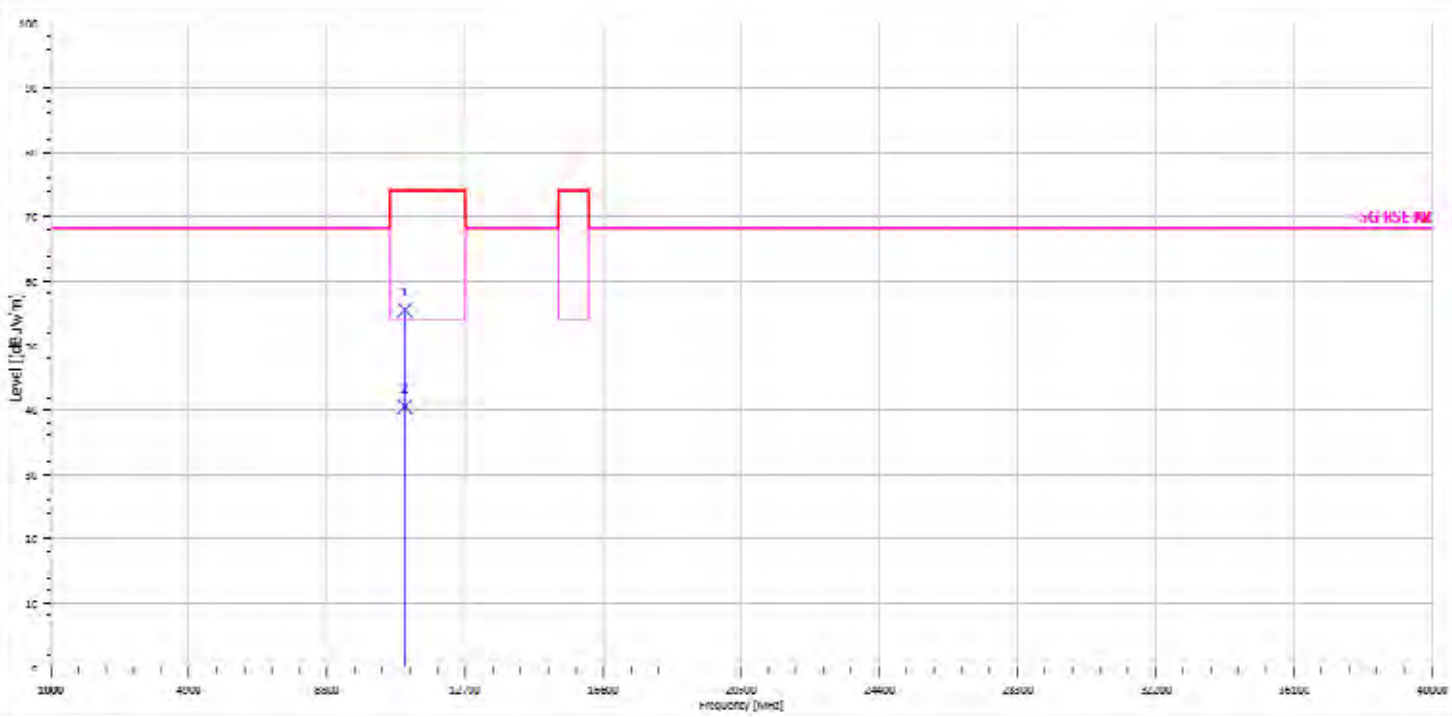
Operation Mode :	802.11aB3	Test Date :	2018/5/22
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	H	Peak	43.87	11.71	55.58	74	-18.42
11000.00	H	Average	28.79	11.71	40.50	54	-13.50

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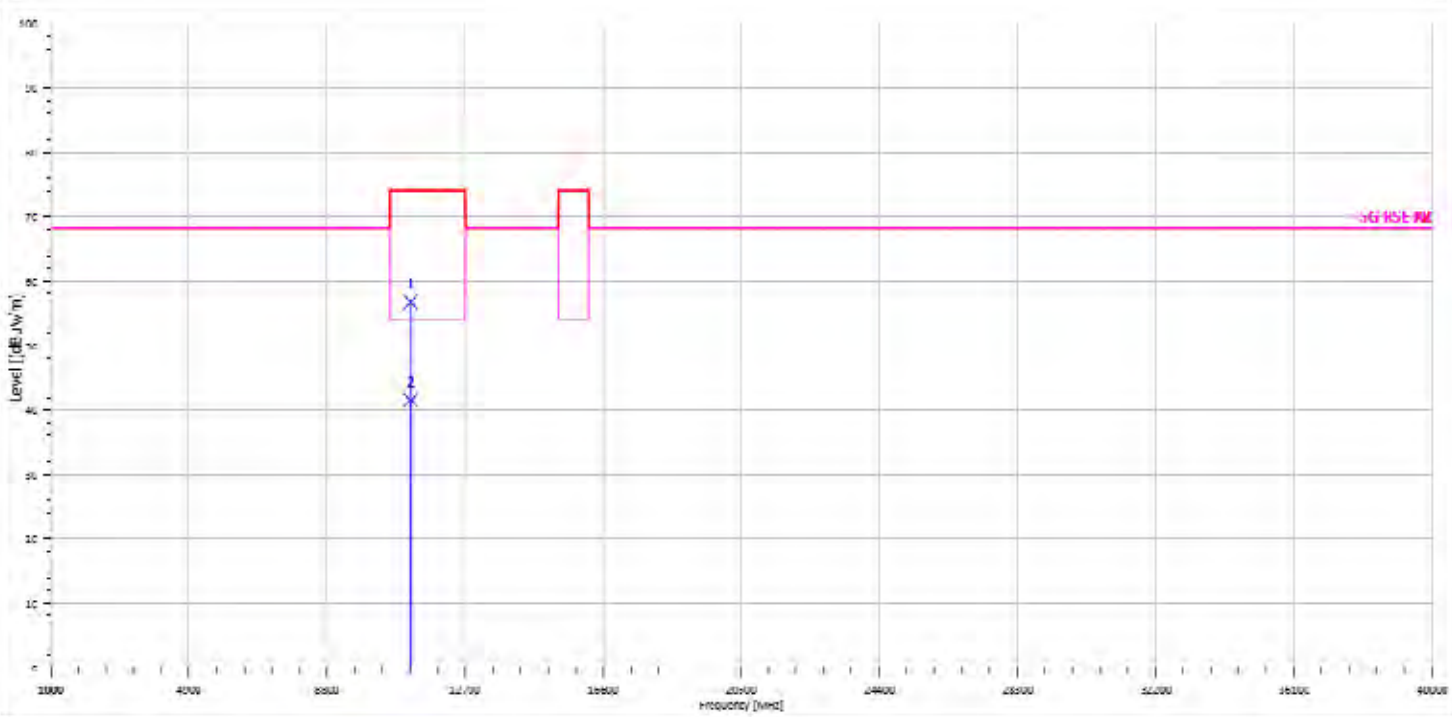
Operation Mode :	802.11aB3	Test Date :	2018/5/22
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	45.24	11.51	56.75	74	-17.25
11160.00	H	Average	30.05	11.51	41.56	54	-12.44

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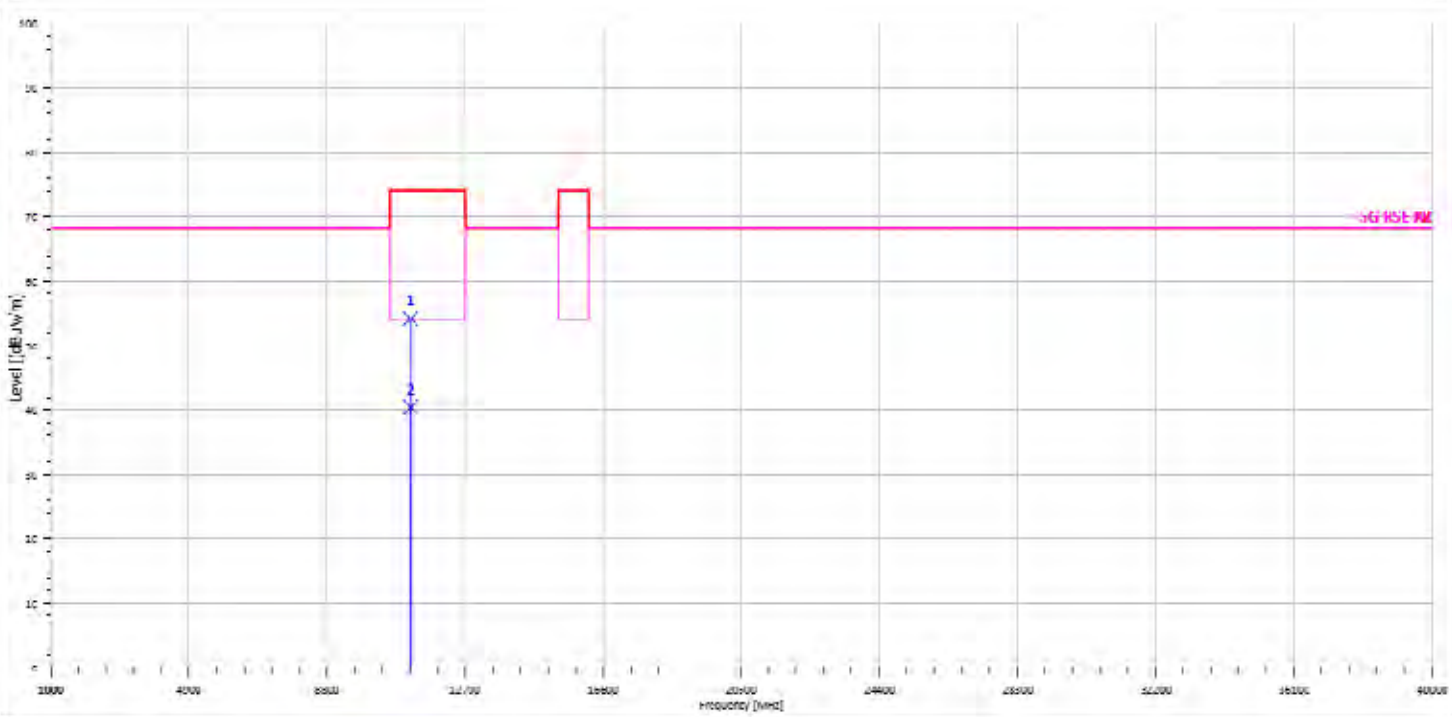
Operation Mode :	802.11aB3	Test Date :	2018/5/22
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.00	H	Peak	42.69	11.51	54.20	74	-19.80
11160.00	H	Average	28.89	11.51	40.40	54	-13.60

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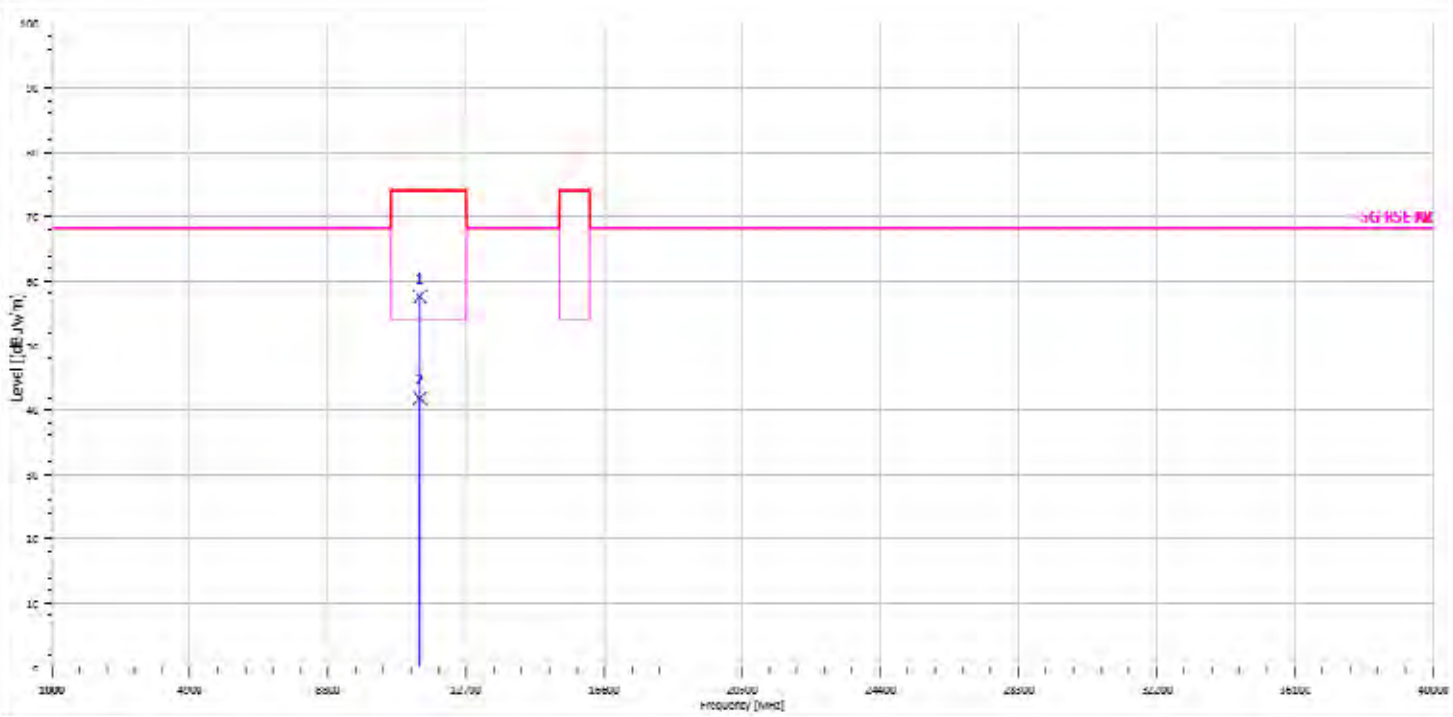
Operation Mode :	802.11aB3	Test Date :	2018/5/22
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11400.00	H	Peak	45.99	11.60	57.59	74	-16.41
11400.00	H	Average	30.24	11.60	41.84	54	-12.16

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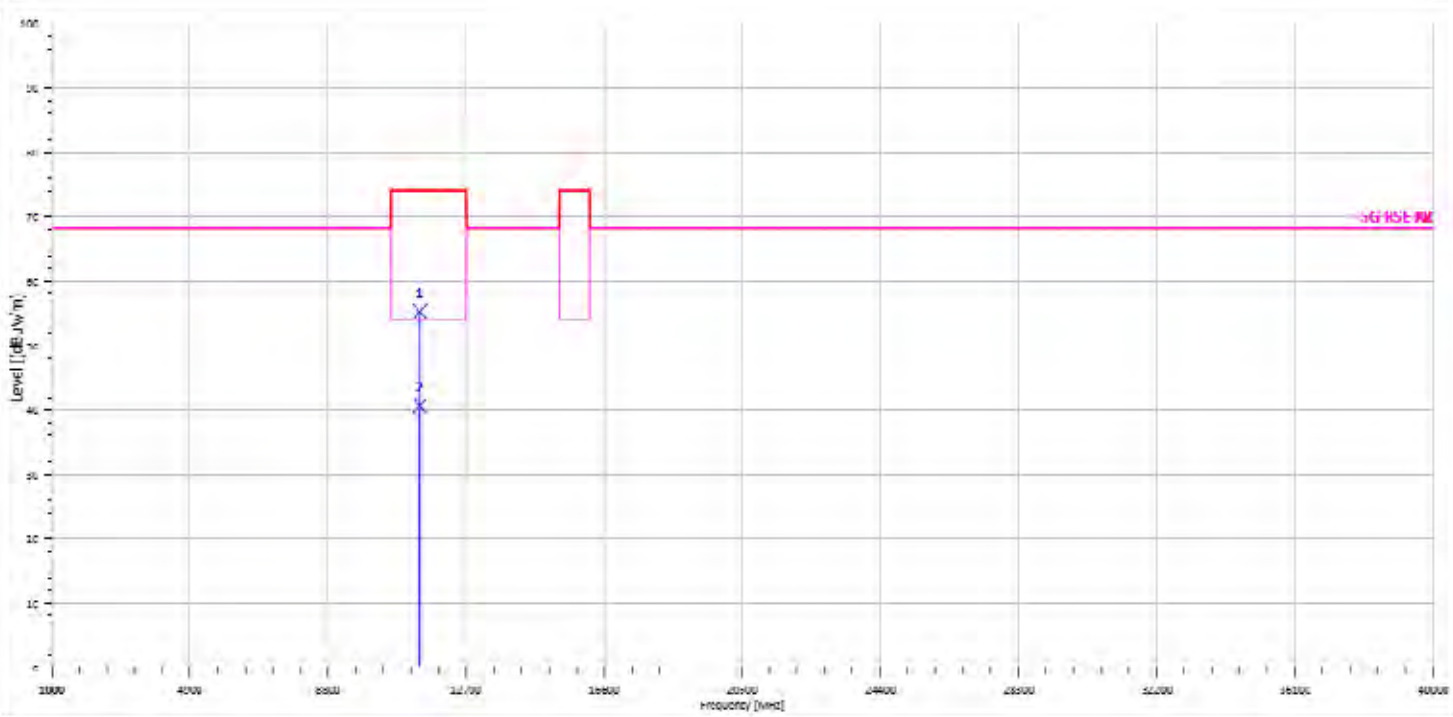
Operation Mode :	802.11aB3	Test Date :	2018/5/22
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11400.00	H	Peak	43.72	11.60	55.32	74	-18.68
11400.00	H	Average	29.03	11.60	40.63	54	-13.37

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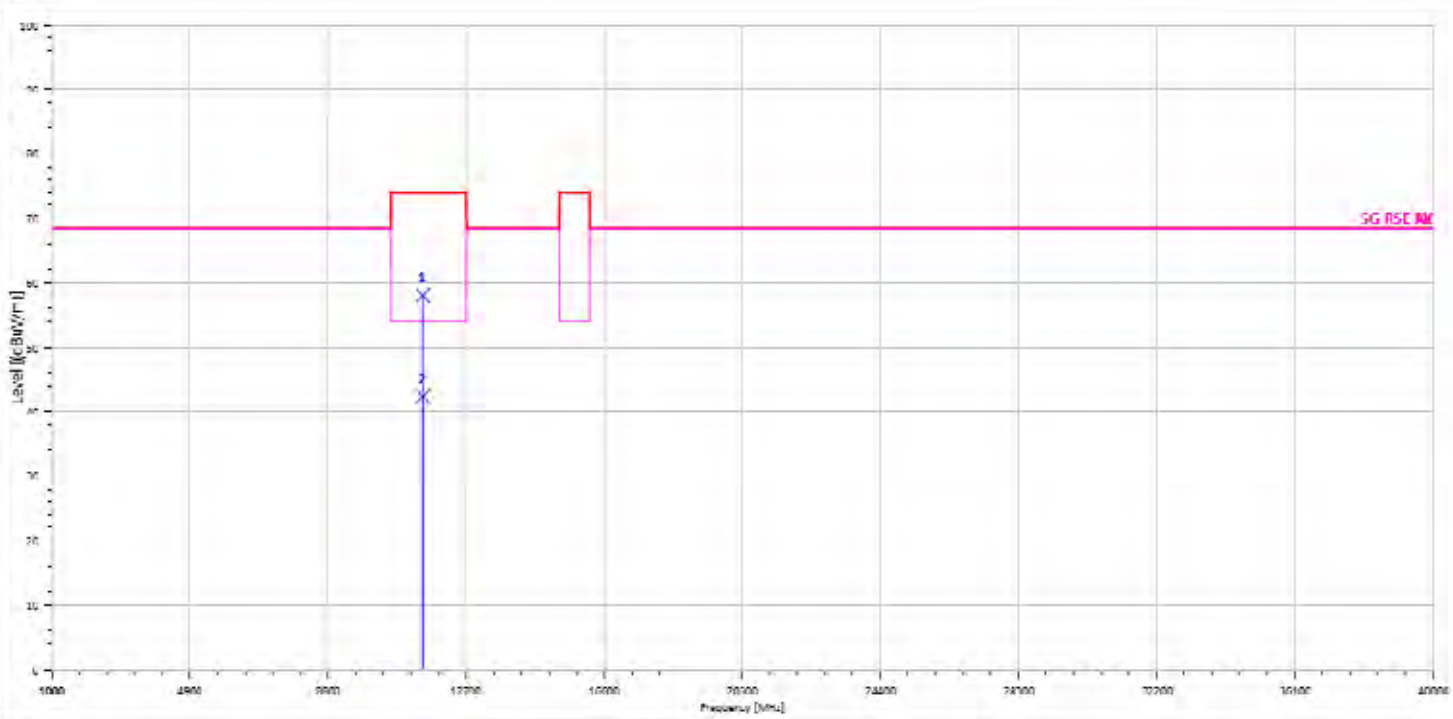
Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	2018/5/22
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	H	Peak	46.85	11.18	58.03	74	-15.97
11490.00	H	Average	31.14	11.18	42.31	54	-11.69

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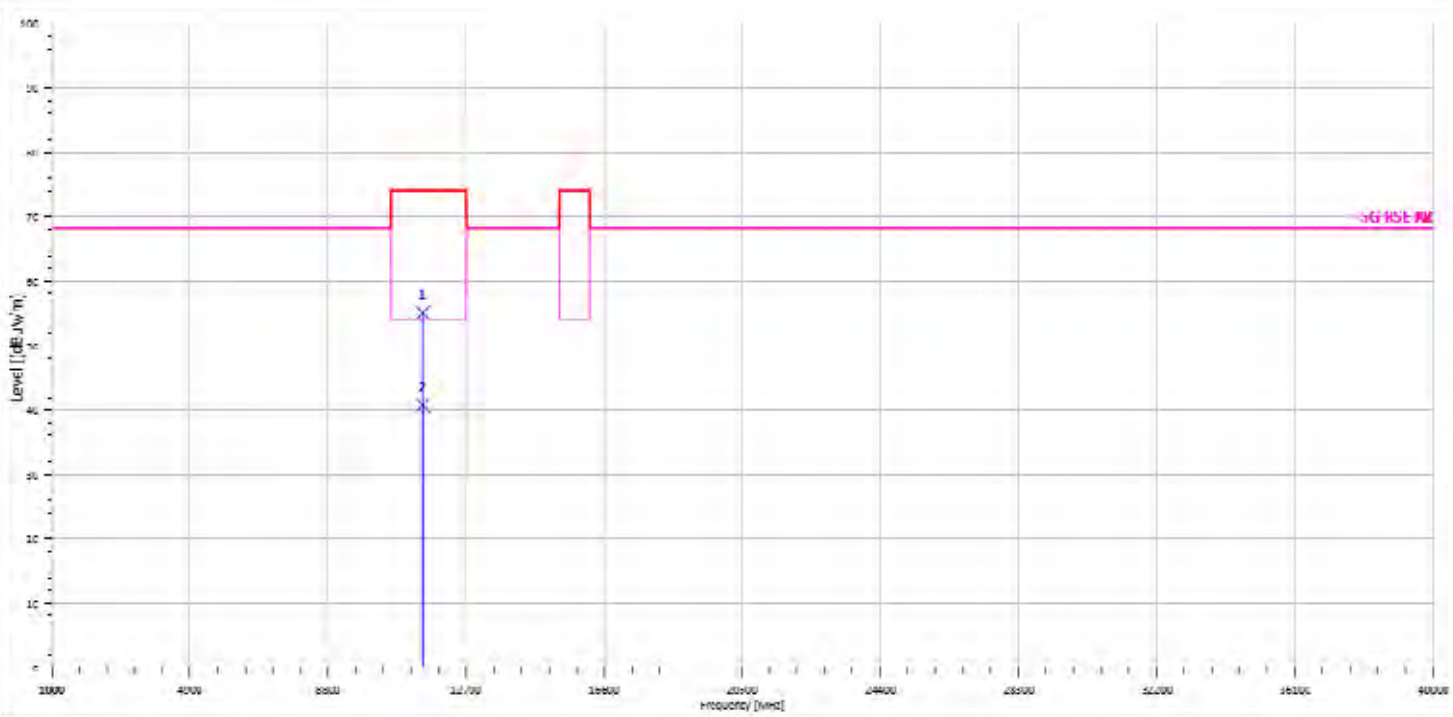
Operation Mode :	802.11aB4	Test Date :	2018/5/22
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	H	Peak	43.97	11.18	55.15	74	-18.85
11490.00	H	Average	29.54	11.18	40.71	54	-13.29

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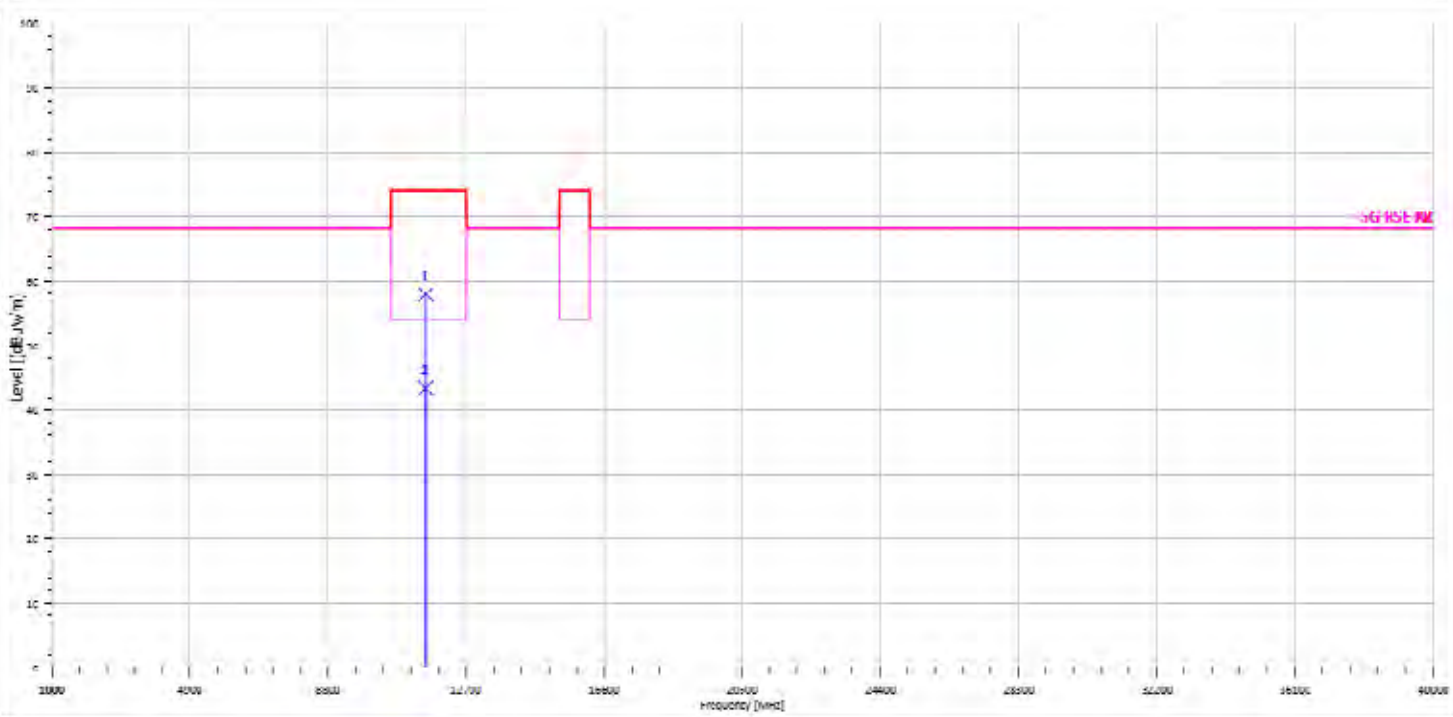
Operation Mode :	802.11aB4	Test Date :	2018/5/22
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11570.00	H	Peak	46.89	11.06	57.96	74	-16.04
11570.00	H	Average	32.33	11.06	43.39	54	-10.61

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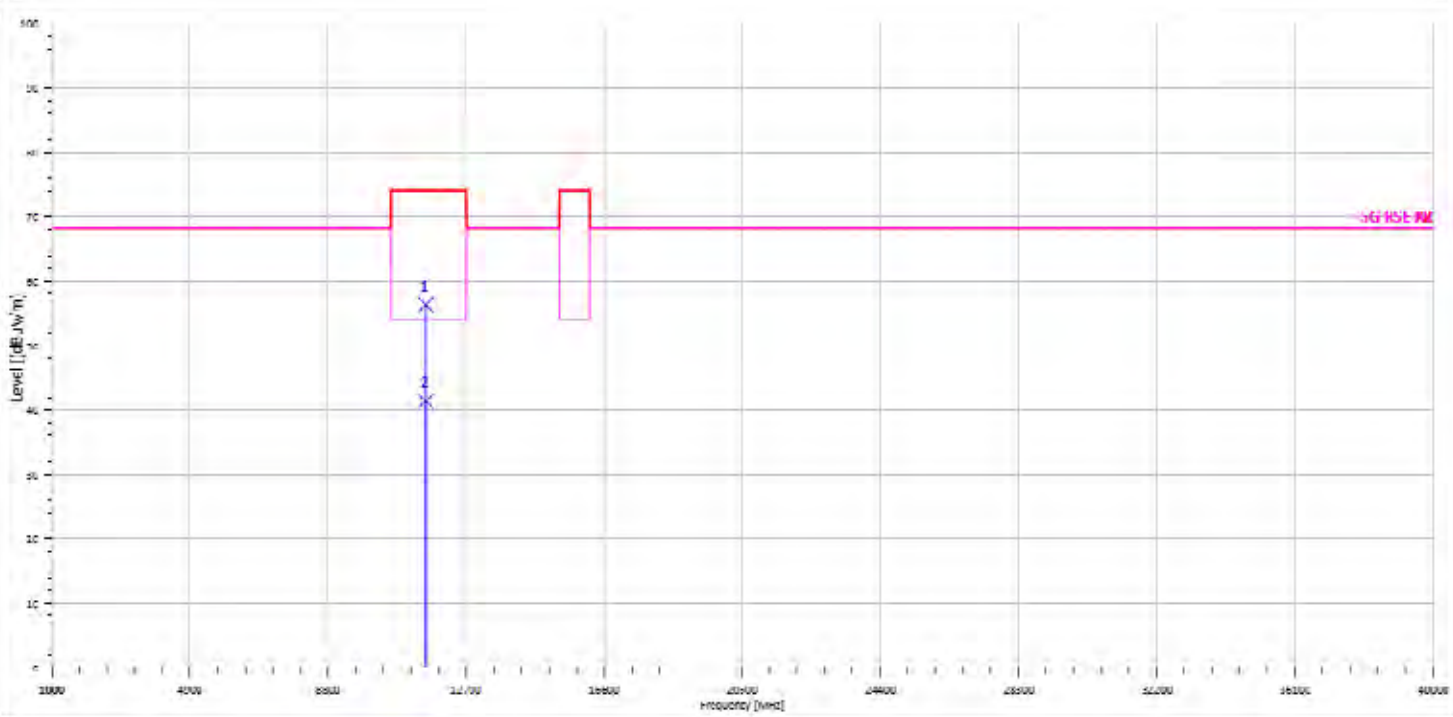
Operation Mode :	802.11aB4	Test Date :	2018/5/22
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11570.00	H	Peak	45.29	11.06	56.35	74	-17.65
11570.00	H	Average	30.34	11.06	41.40	54	-12.60

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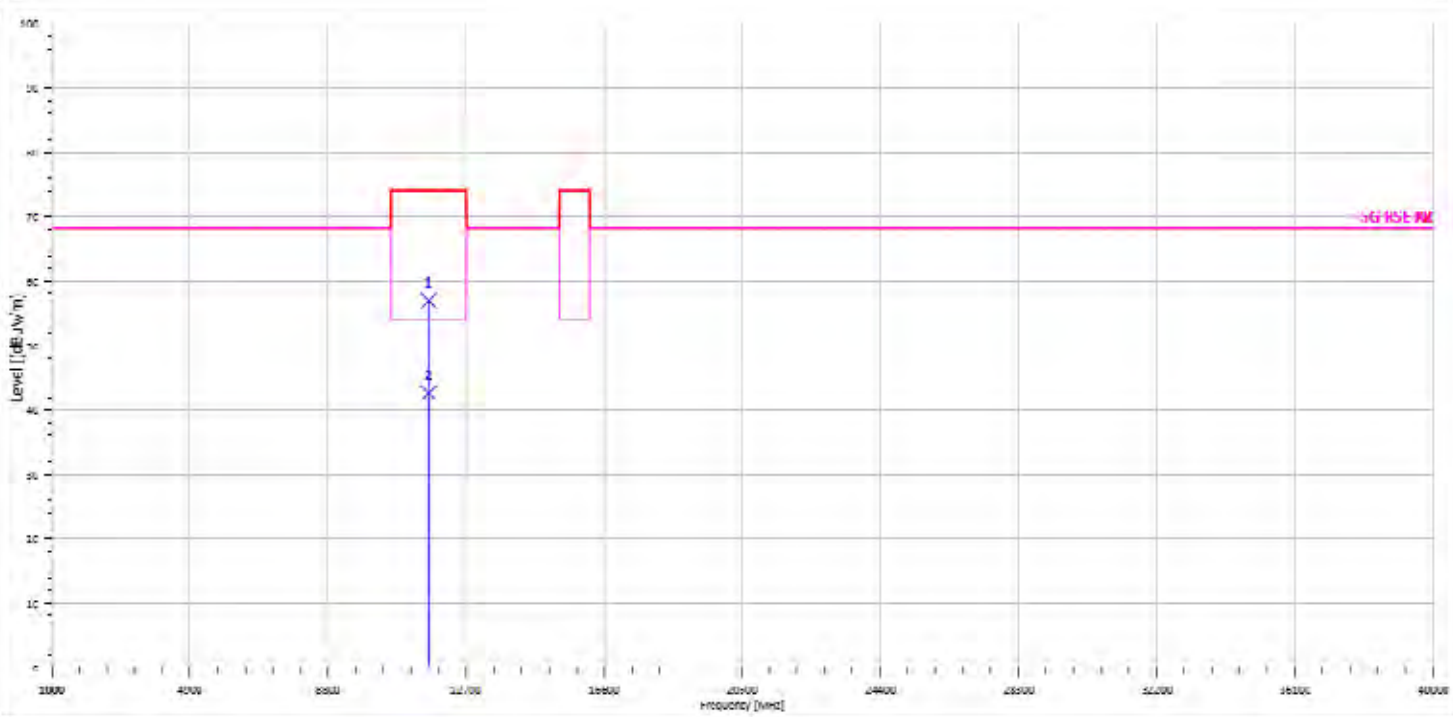
Operation Mode :	802.11aB4	Test Date :	2018/5/22
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11650.00	H	Peak	46.25	10.69	56.94	74	-17.06
11650.00	H	Average	31.97	10.69	42.65	54	-11.35

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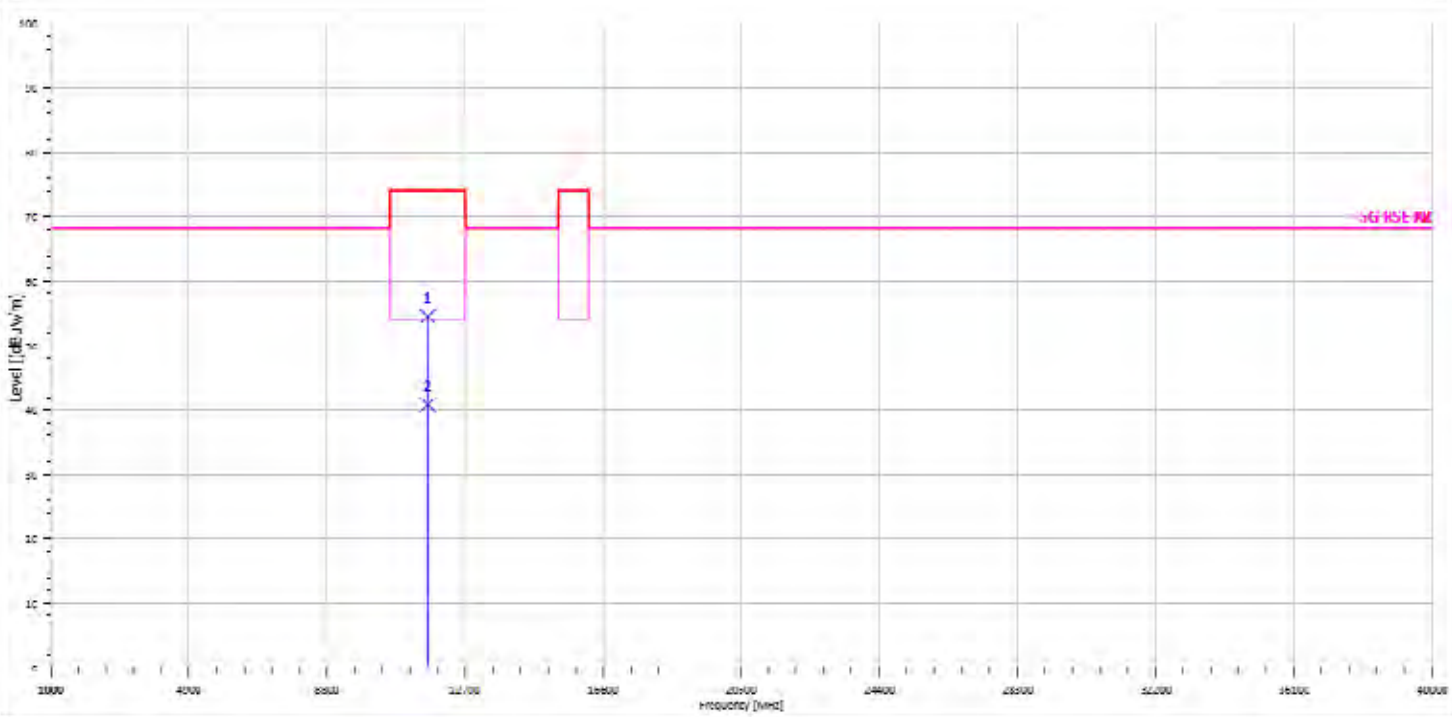
Operation Mode :	802.11aB4	Test Date :	2018/5/22
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11650.00	H	Peak	43.88	10.69	54.57	74	-19.43
11650.00	H	Average	30.13	10.69	40.82	54	-13.18

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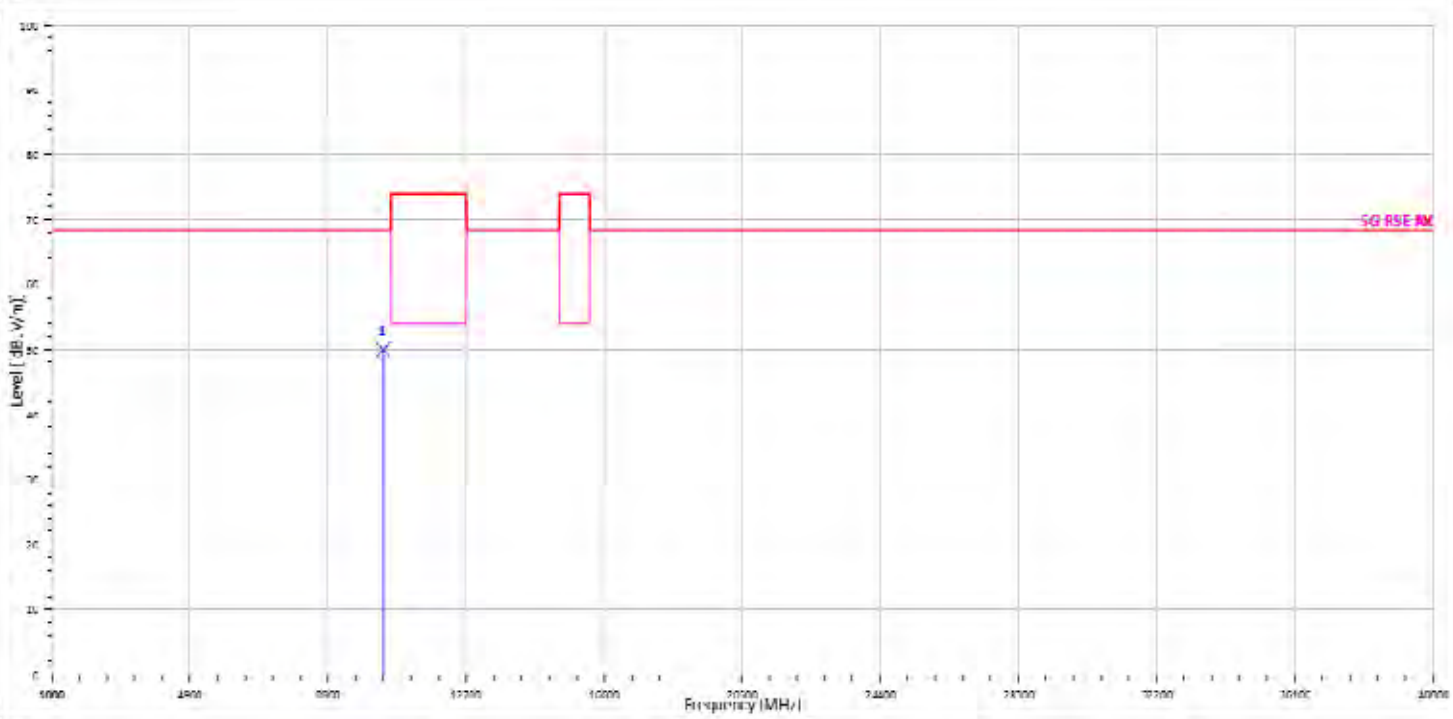
Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20B1	Test Date :	2018/2/26
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	H	Peak	40.72	9.27	49.99	68.3	-18.31

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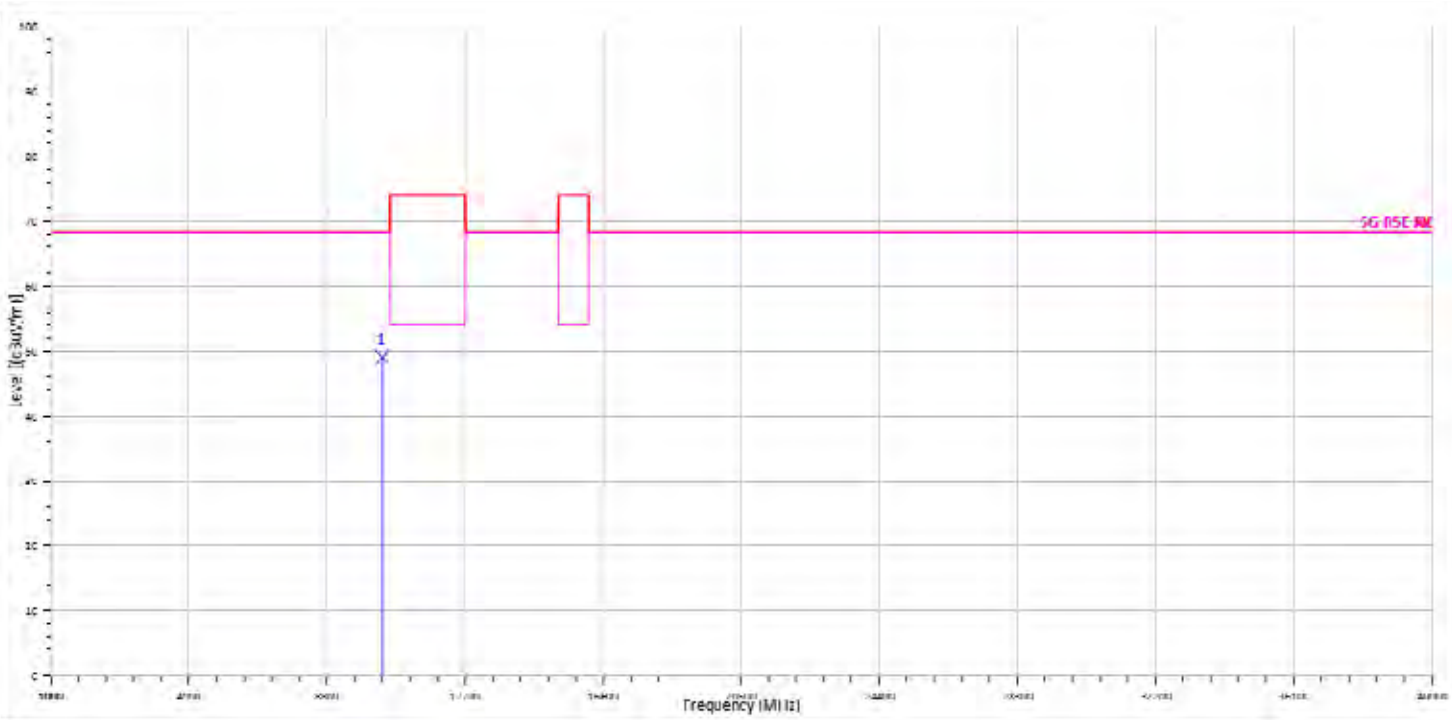
Operation Mode :	802.11n20B1	Test Date :	2018/2/26
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	H	Peak	39.72	9.27	48.99	68.3	-19.31

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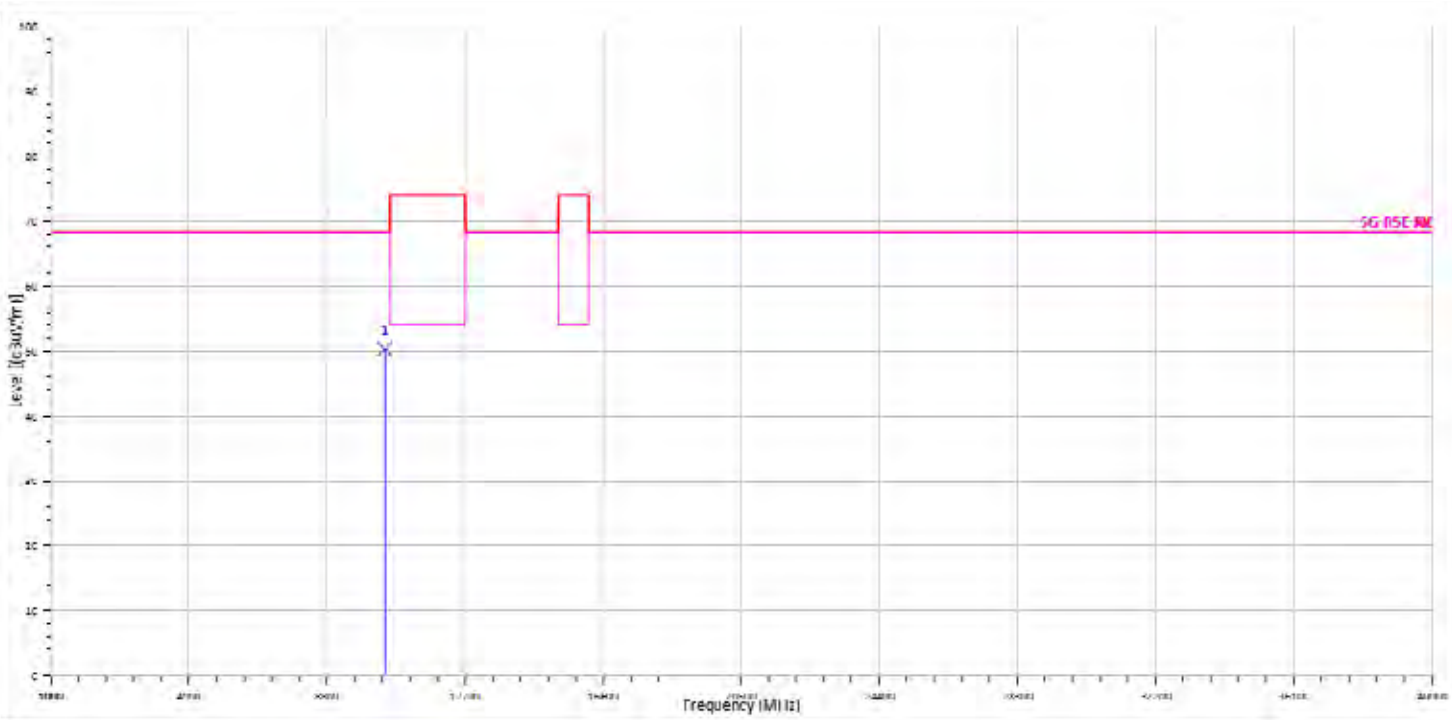
Operation Mode :	802.11n20B1	Test Date :	2018/2/26
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	40.72	9.57	50.29	68.3	-18.01

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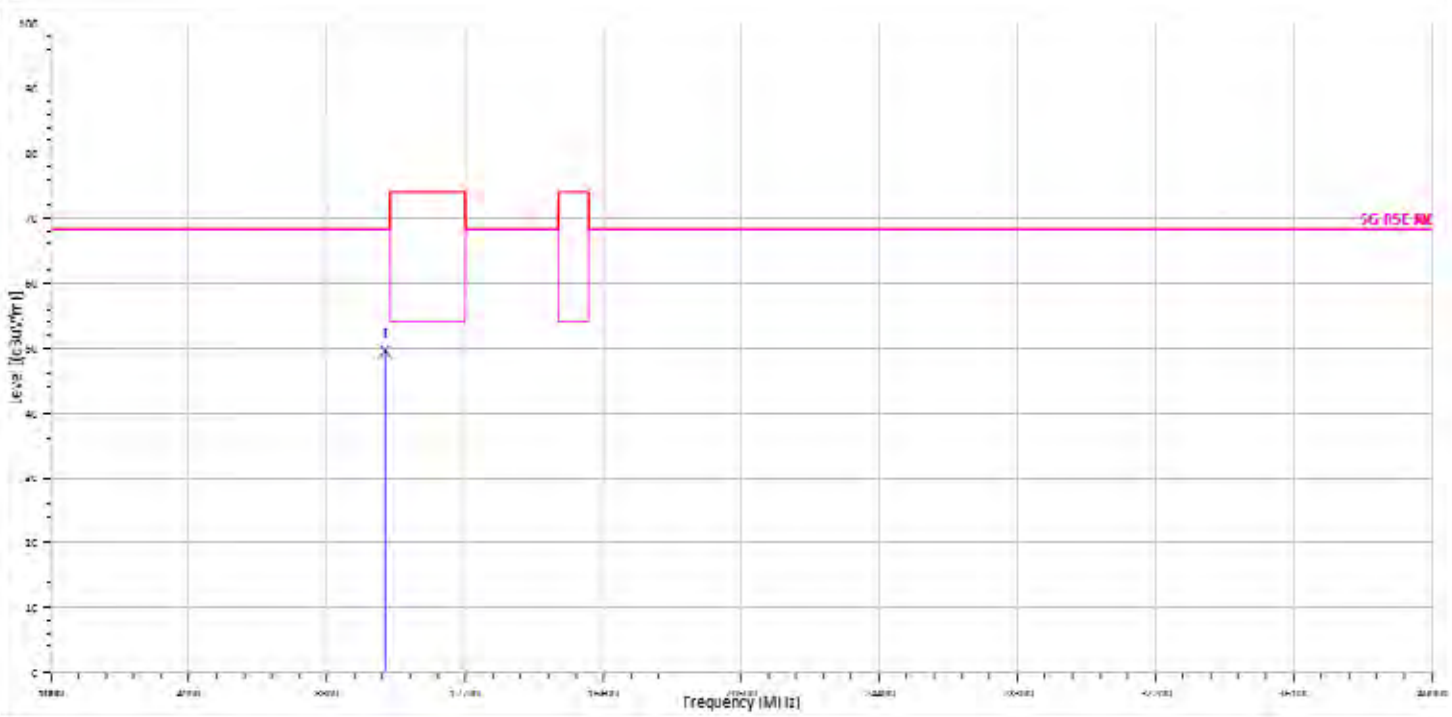
Operation Mode :	802.11n20B1	Test Date :	2018/2/26
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	39.94	9.57	49.51	68.3	-18.79

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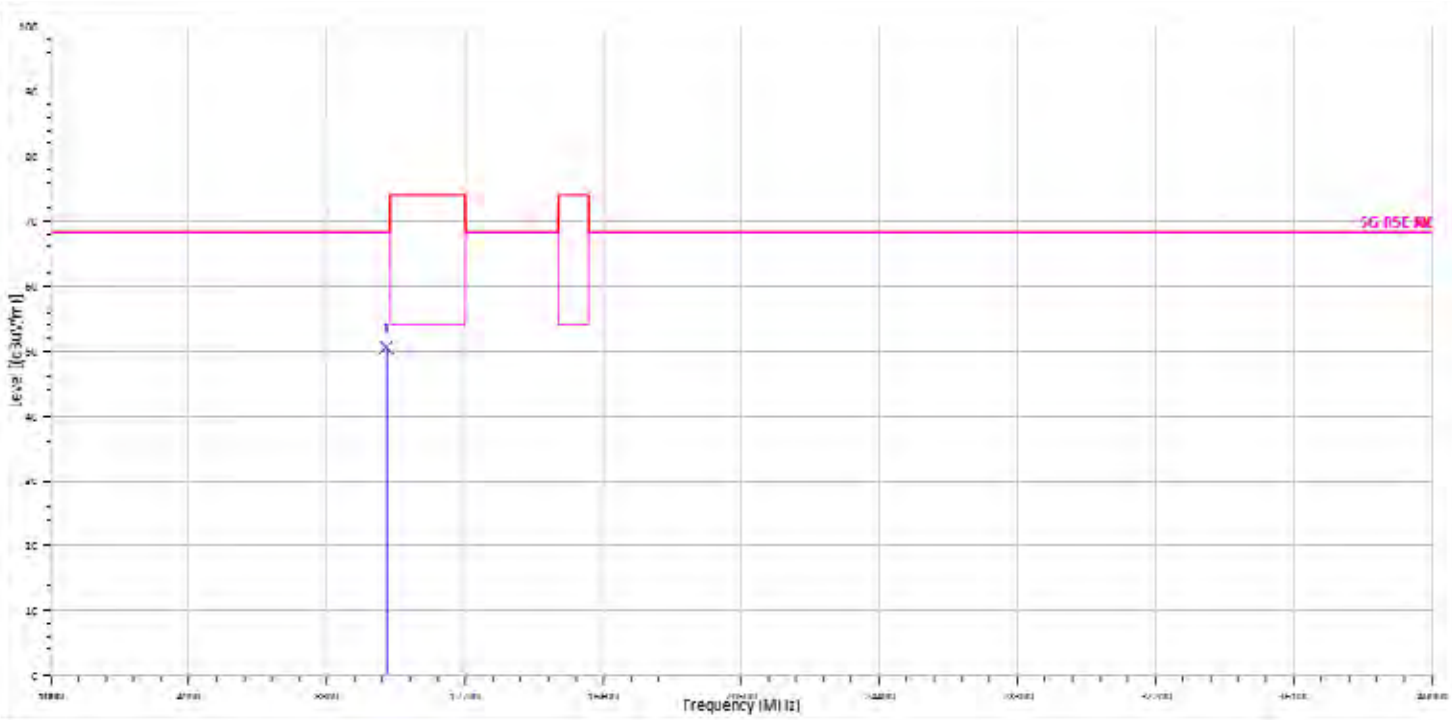
Operation Mode :	802.11n20B1	Test Date :	2018/2/26
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	H	Peak	40.94	9.64	50.58	68.3	-17.72

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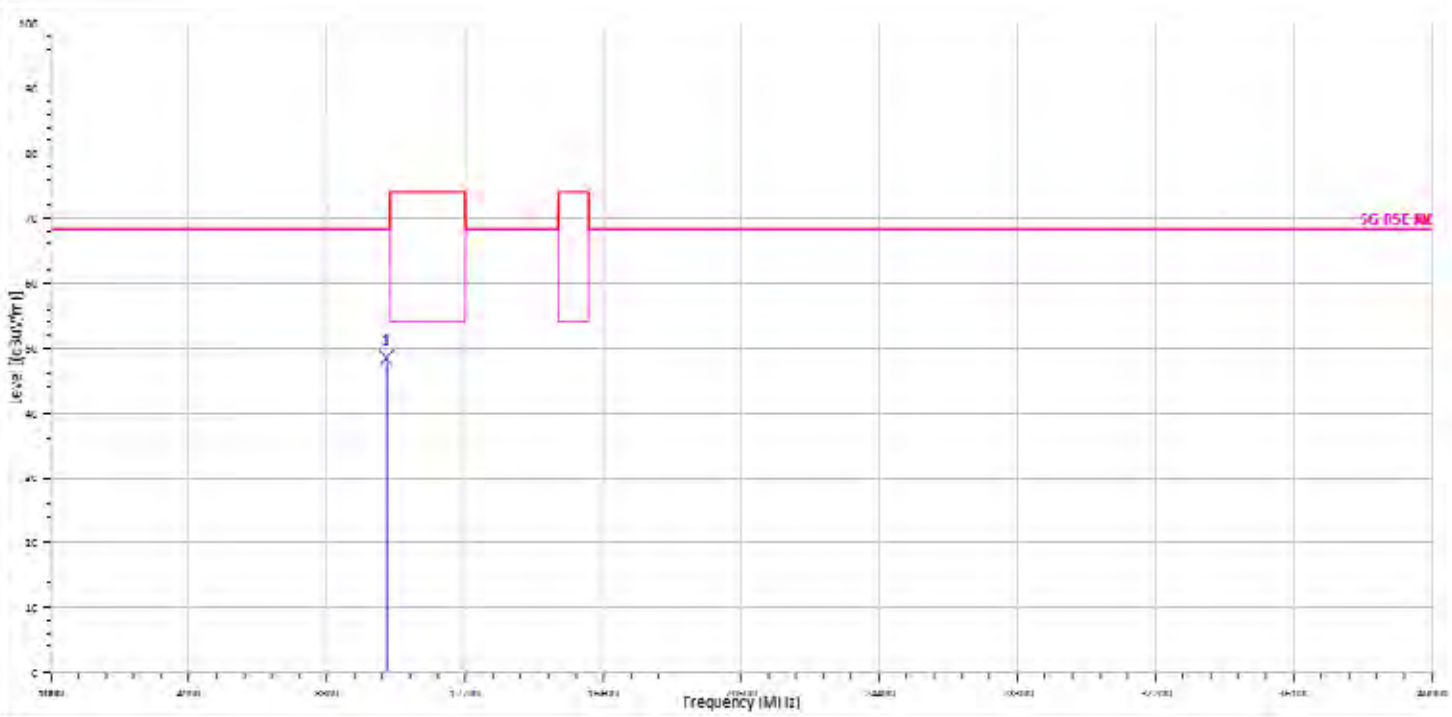
Operation Mode :	802.11n20B1	Test Date :	2018/2/26
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	H	Peak	38.82	9.64	48.47	68.3	-19.83

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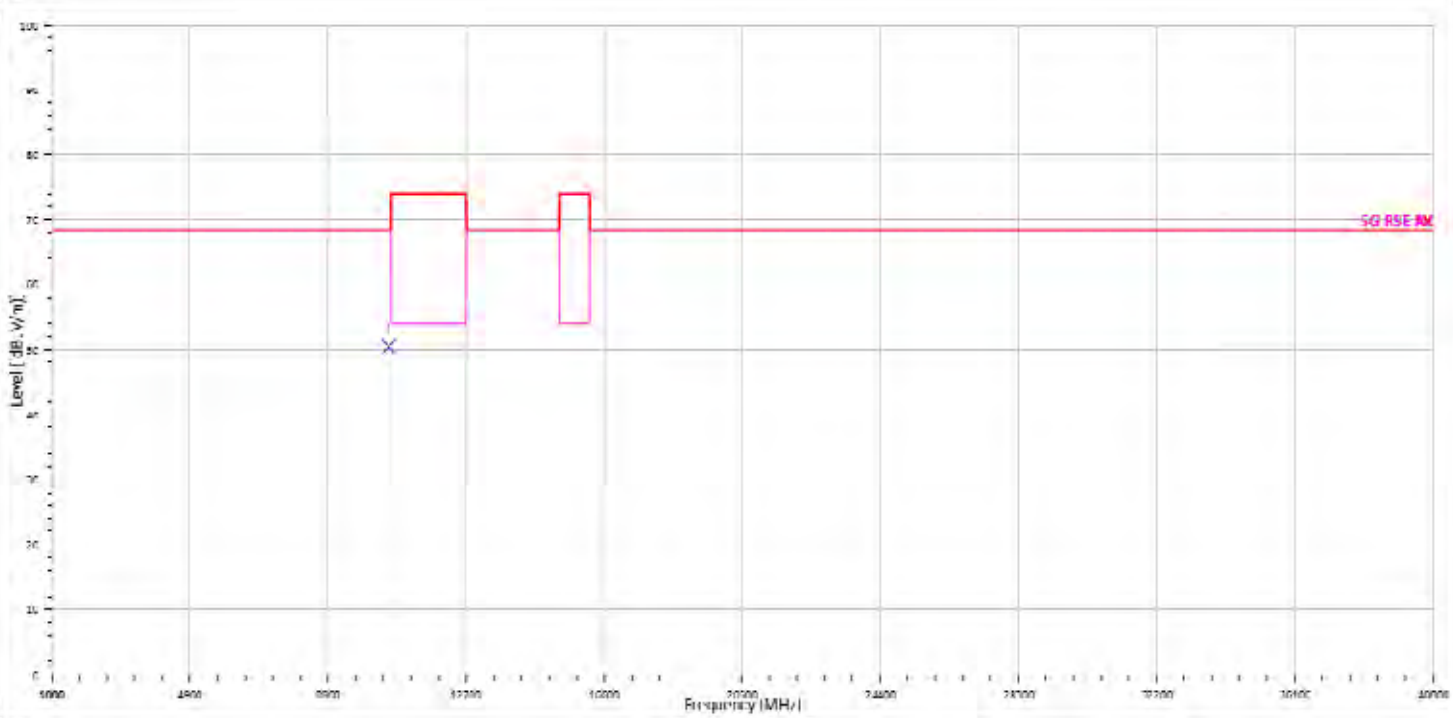
Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20B2	Test Date :	2018/2/26
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	H	Peak	40.69	9.77	50.47	68.3	-17.83

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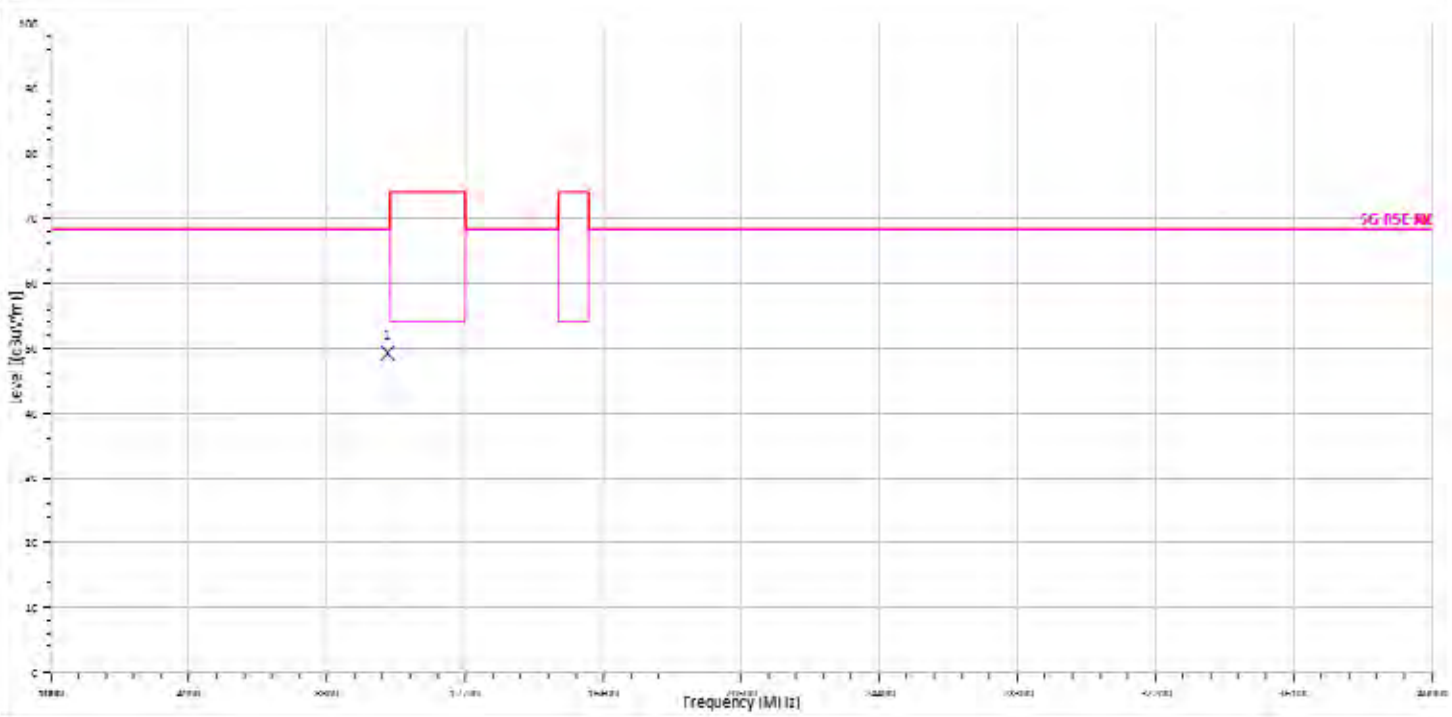
Operation Mode :	802.11n20B2	Test Date :	2018/2/26
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	H	Peak	39.41	9.77	49.19	68.3	-19.11

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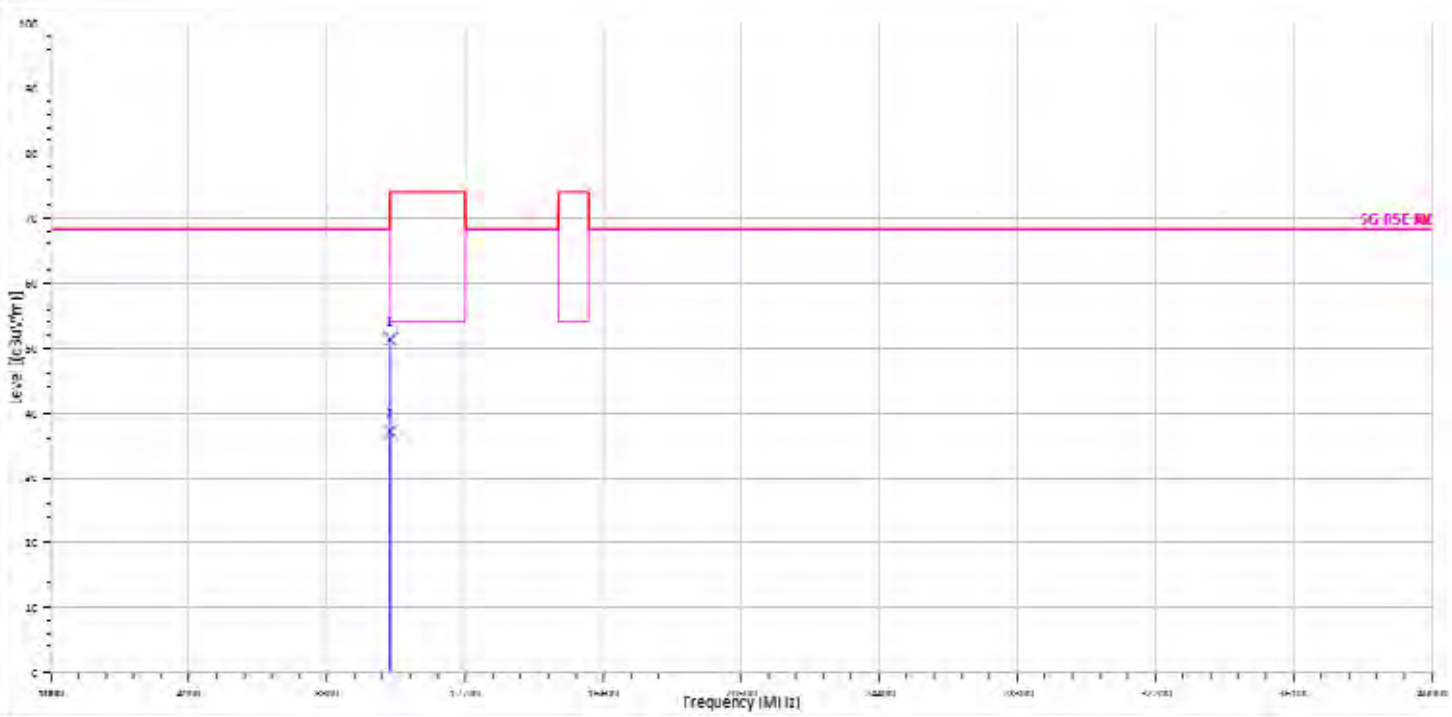
Operation Mode :	802.11n20B2	Test Date :	2018/2/26
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	41.22	10.15	51.36	74	-22.64
10600.00	H	Average	26.96	10.15	37.11	54	-16.89

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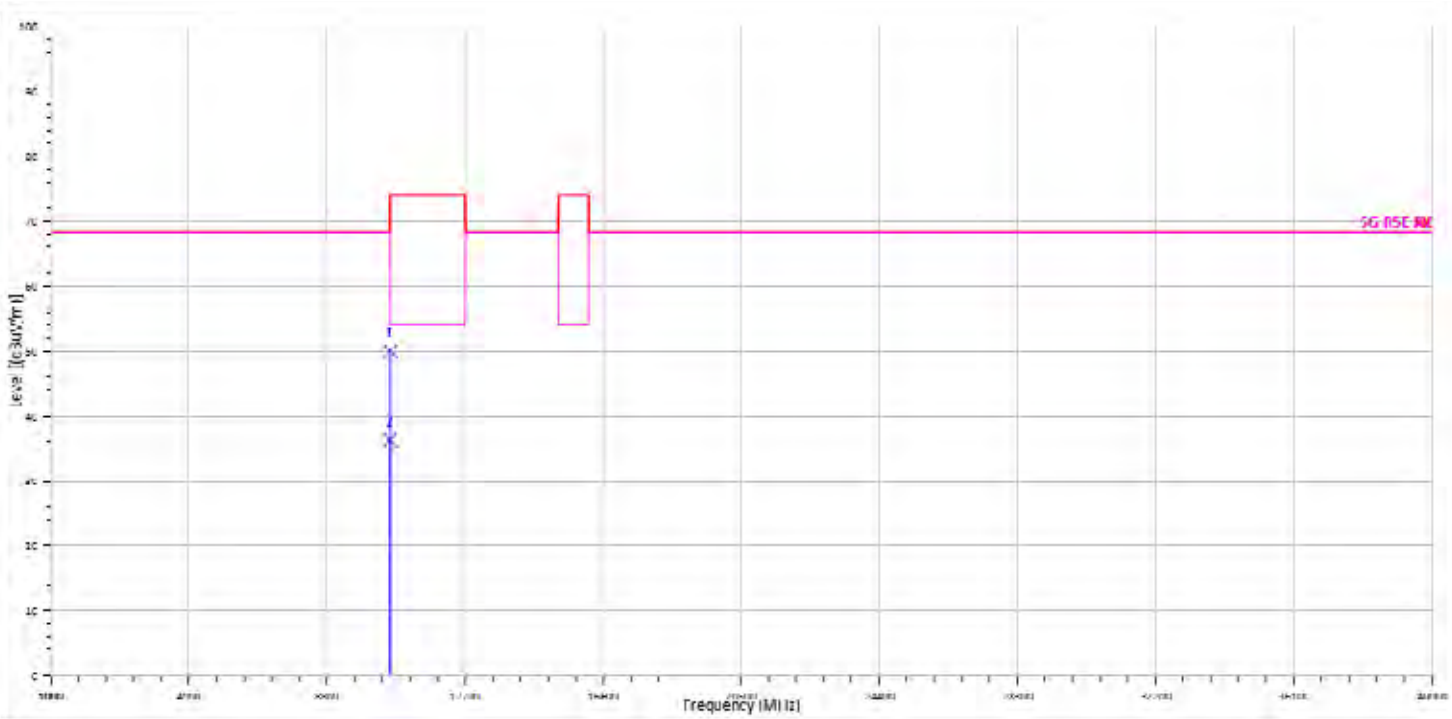
Operation Mode :	802.11n20B2	Test Date :	2018/2/26
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	39.84	10.15	49.98	74	-24.02
10600.00	H	Average	26.12	10.15	36.27	54	-17.73

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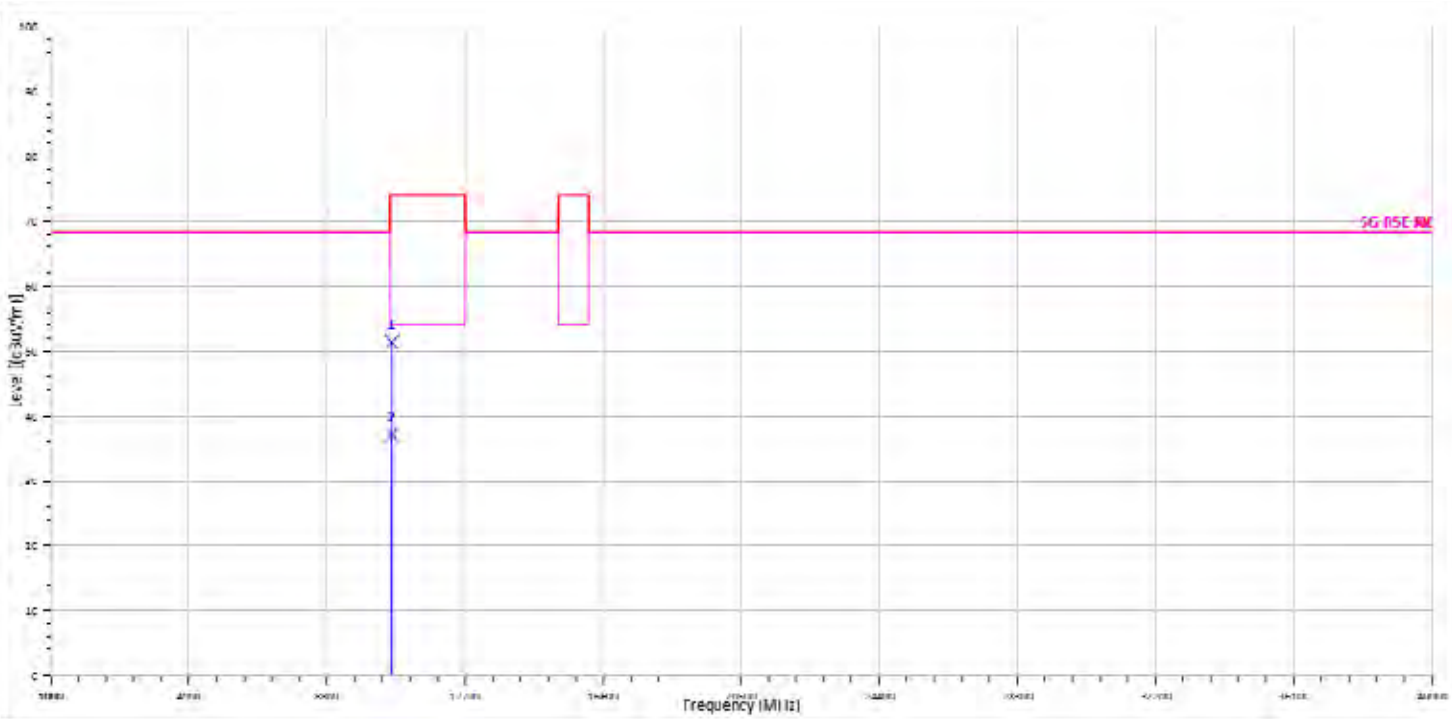
Operation Mode :	802.11n20B2	Test Date :	2018/2/26
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	41.33	10.07	51.40	74	-22.60
10640.00	H	Average	26.97	10.07	37.04	54	-16.96

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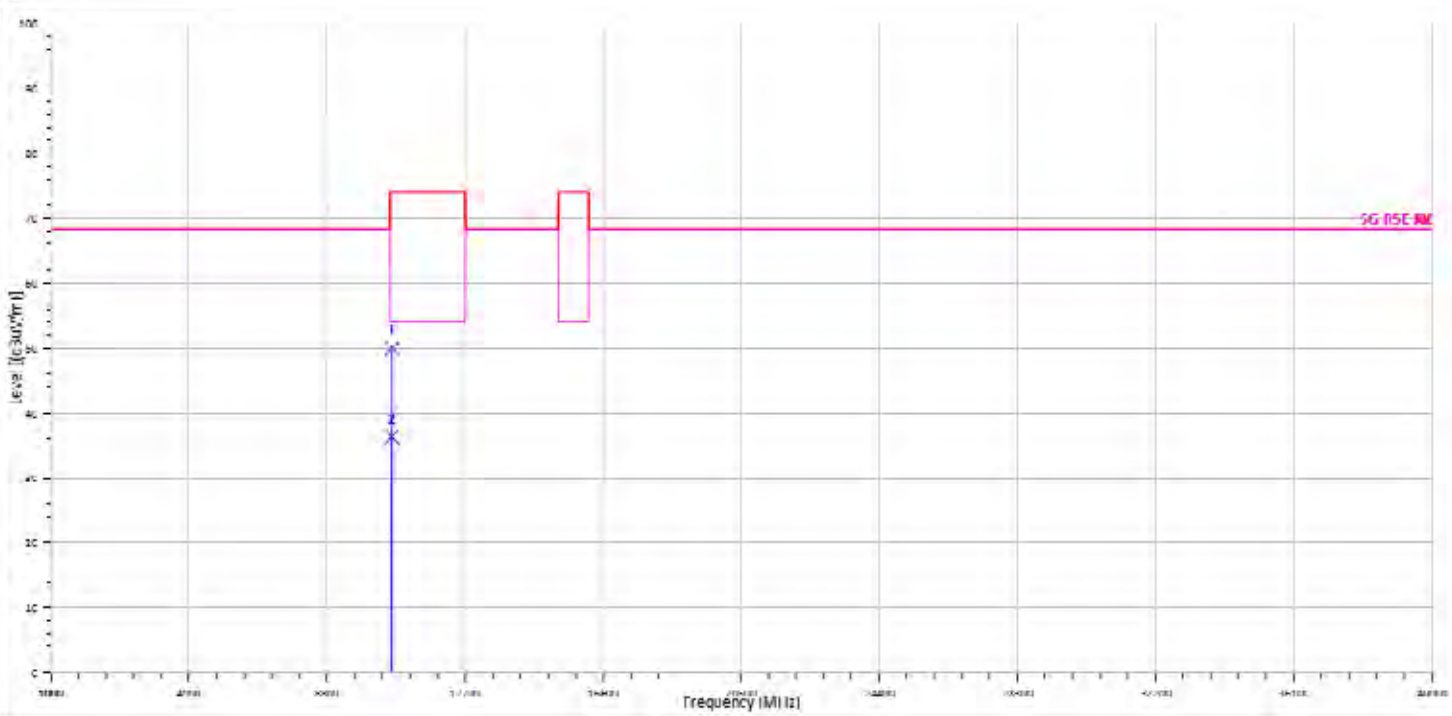
Operation Mode :	802.11n20B2	Test Date :	2018/2/26
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	39.88	10.07	49.95	74	-24.05
10640.00	H	Average	26.24	10.07	36.31	54	-17.69

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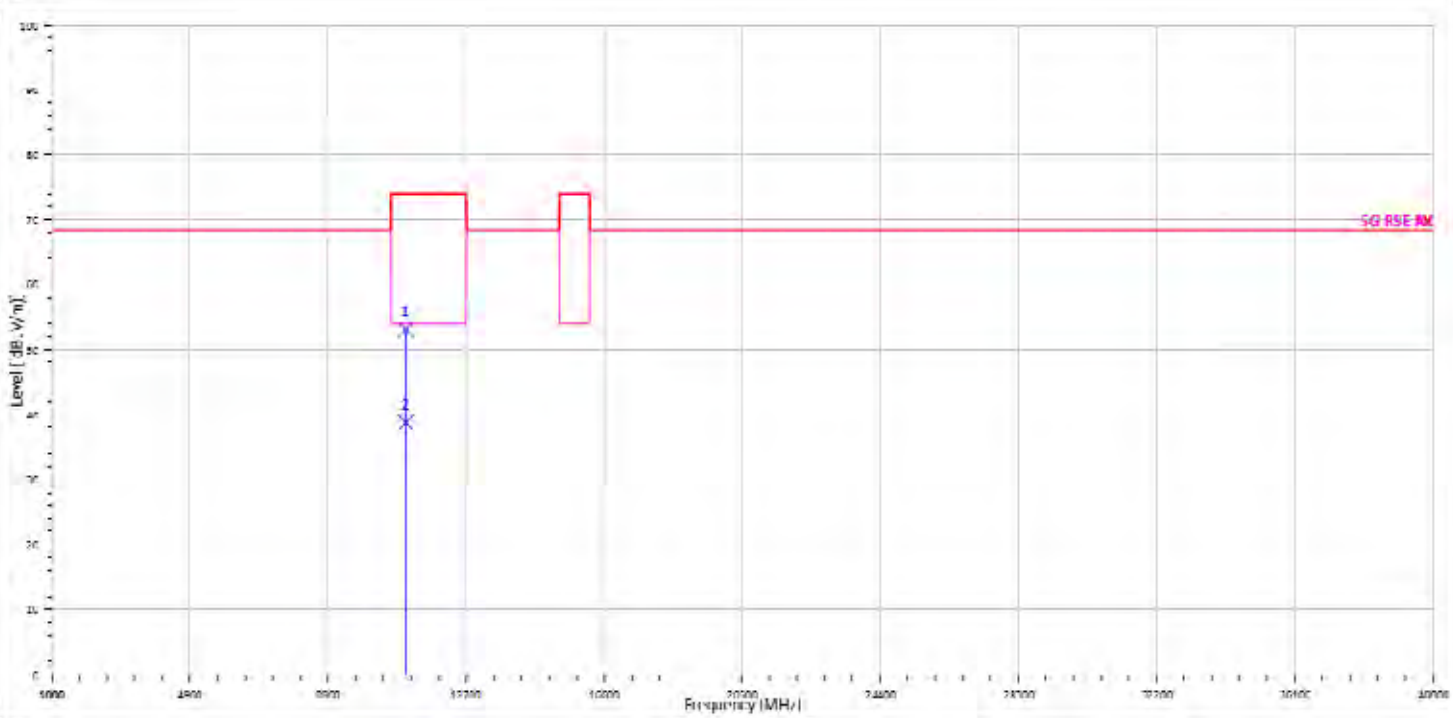
Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20B3	Test Date :	2018/2/26
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	H	Peak	41.39	11.71	53.10	74	-20.91
11000.00	H	Average	27.02	11.71	38.73	54	-15.27

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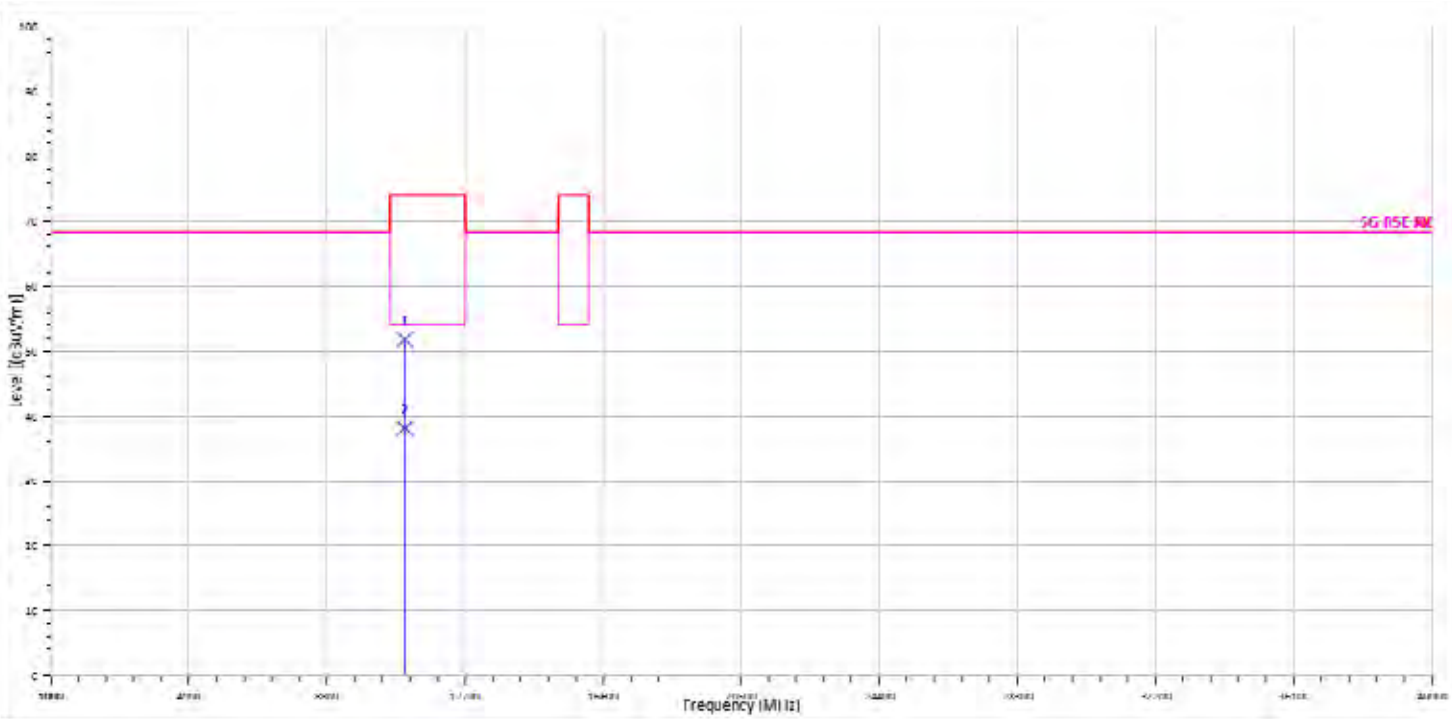
Operation Mode :	802.11n20B3	Test Date :	2018/2/26
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	H	Peak	40.11	11.71	51.82	74	-22.18
11000.00	H	Average	26.38	11.71	38.09	54	-15.91

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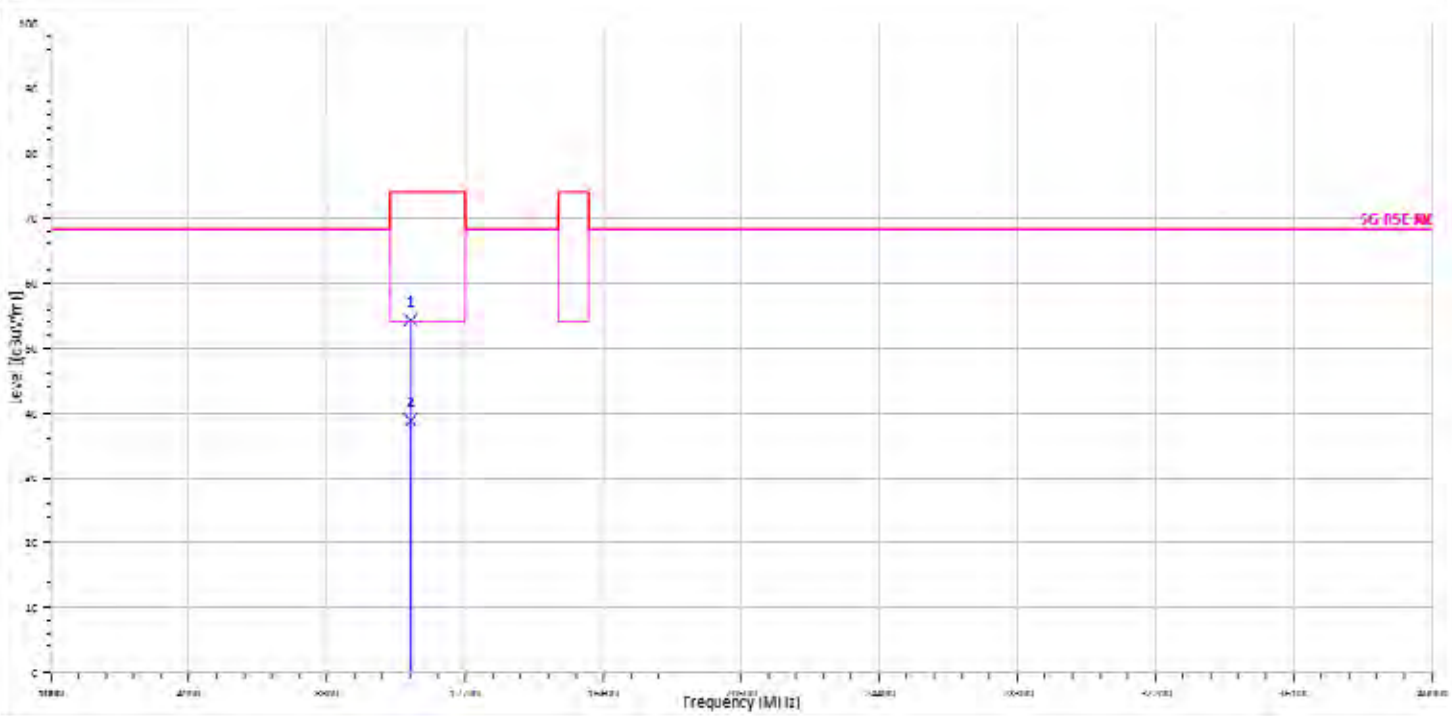
Operation Mode :	802.11n20B3	Test Date :	2018/2/26
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	S	Peak	42.84	11.51	54.35	74	-19.66
11160.00	S	Average	27.38	11.51	38.89	54	-15.12

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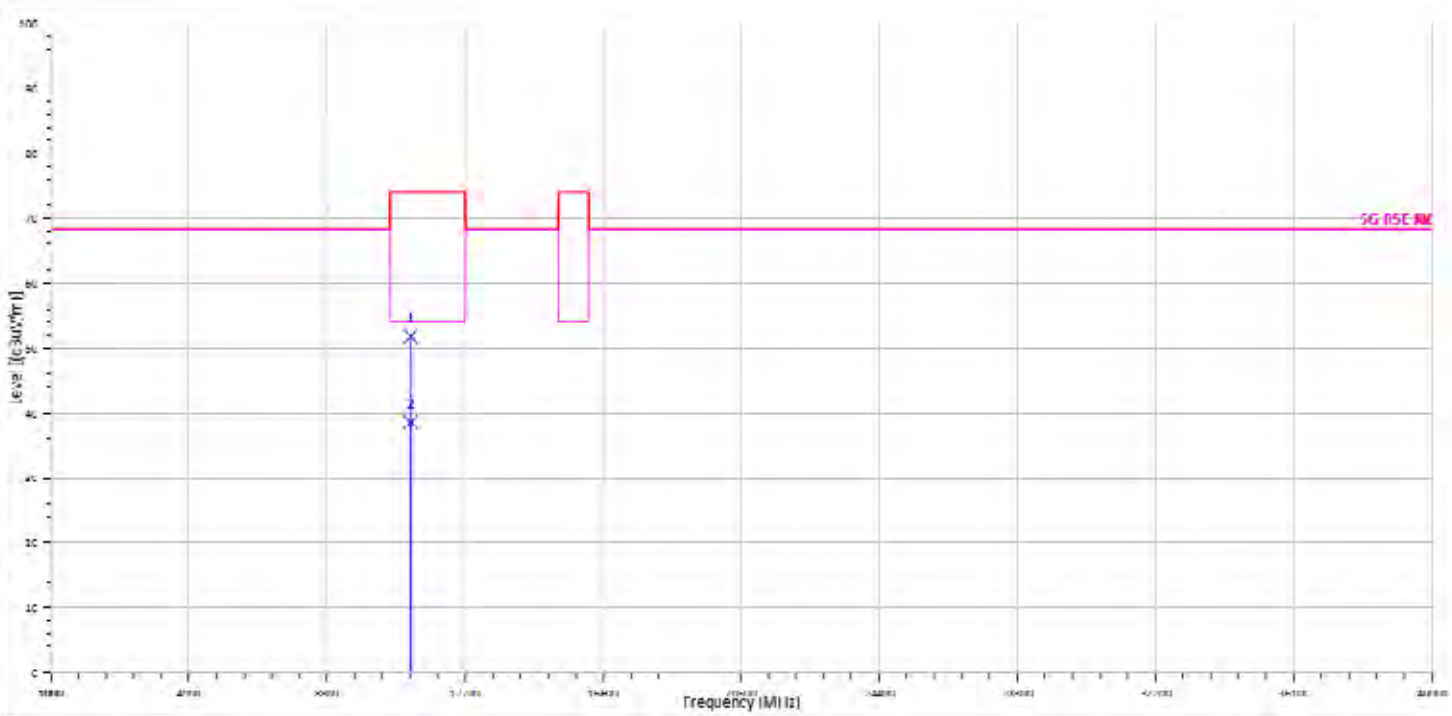
Operation Mode :	802.11n20B3	Test Date :	2018/2/26
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	40.31	11.51	51.82	74	-22.18
11160.00	H	Average	27.11	11.51	38.62	54	-15.38

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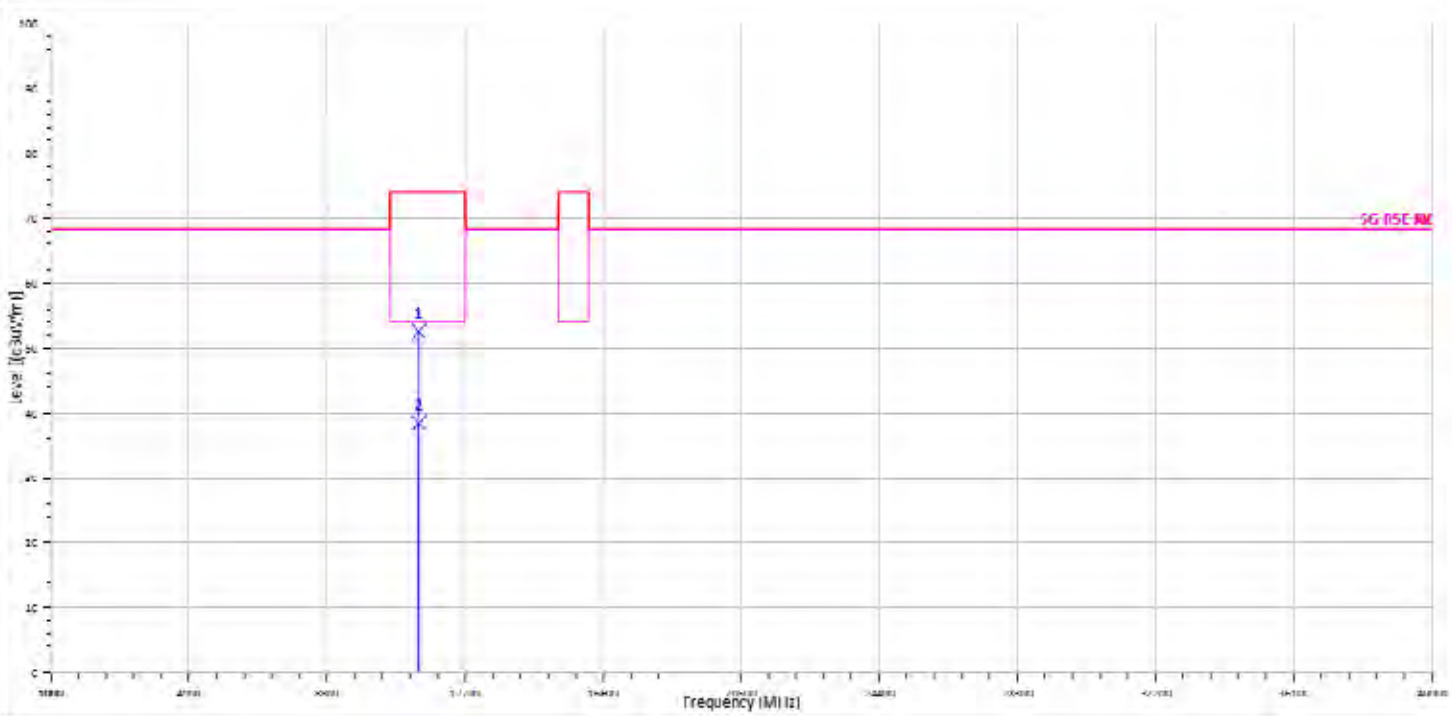
Operation Mode :	802.11n20B3	Test Date :	2018/2/26
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	40.98	11.60	52.58	74	-21.42
11400.00	H	Average	26.83	11.60	38.43	54	-15.57

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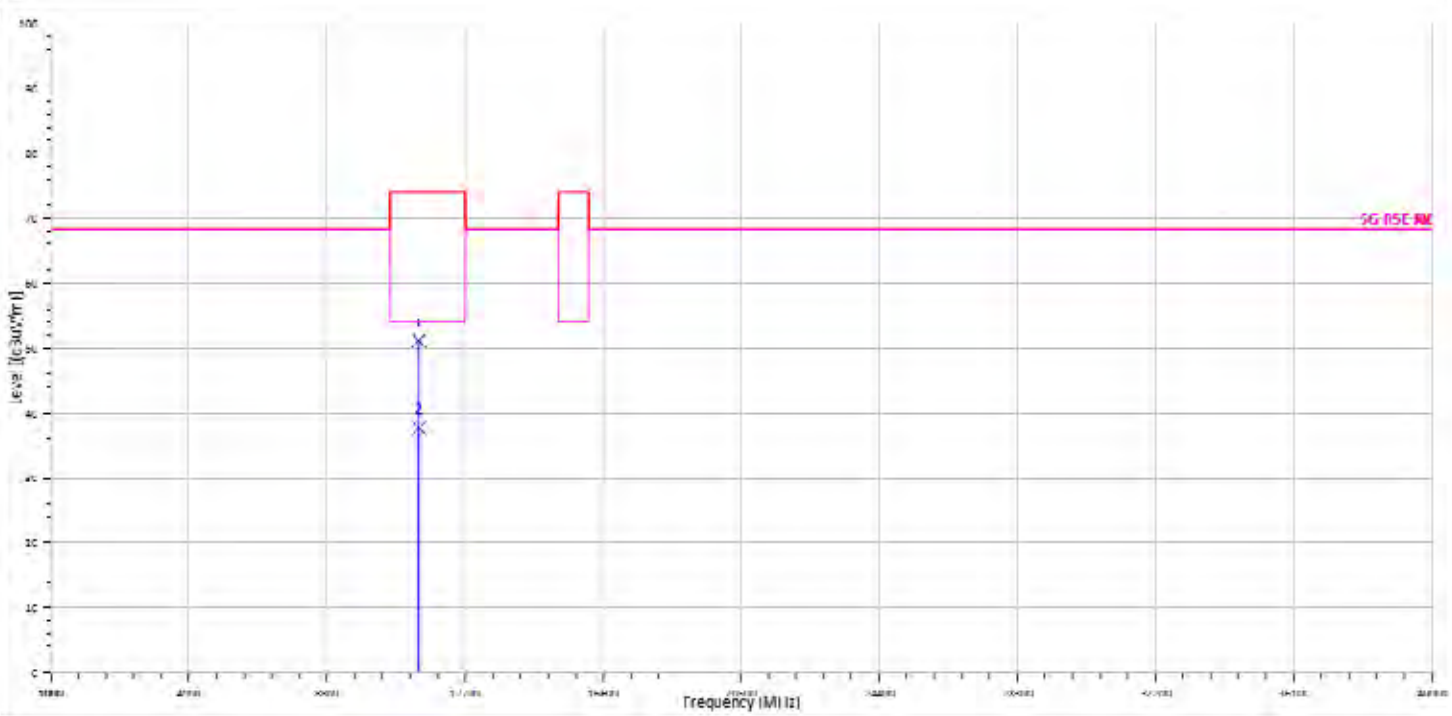
Operation Mode :	802.11n20B3	Test Date :	2018/2/26
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	39.54	11.60	51.14	74	-22.86
11400.00	H	Average	26.09	11.60	37.69	54	-16.31

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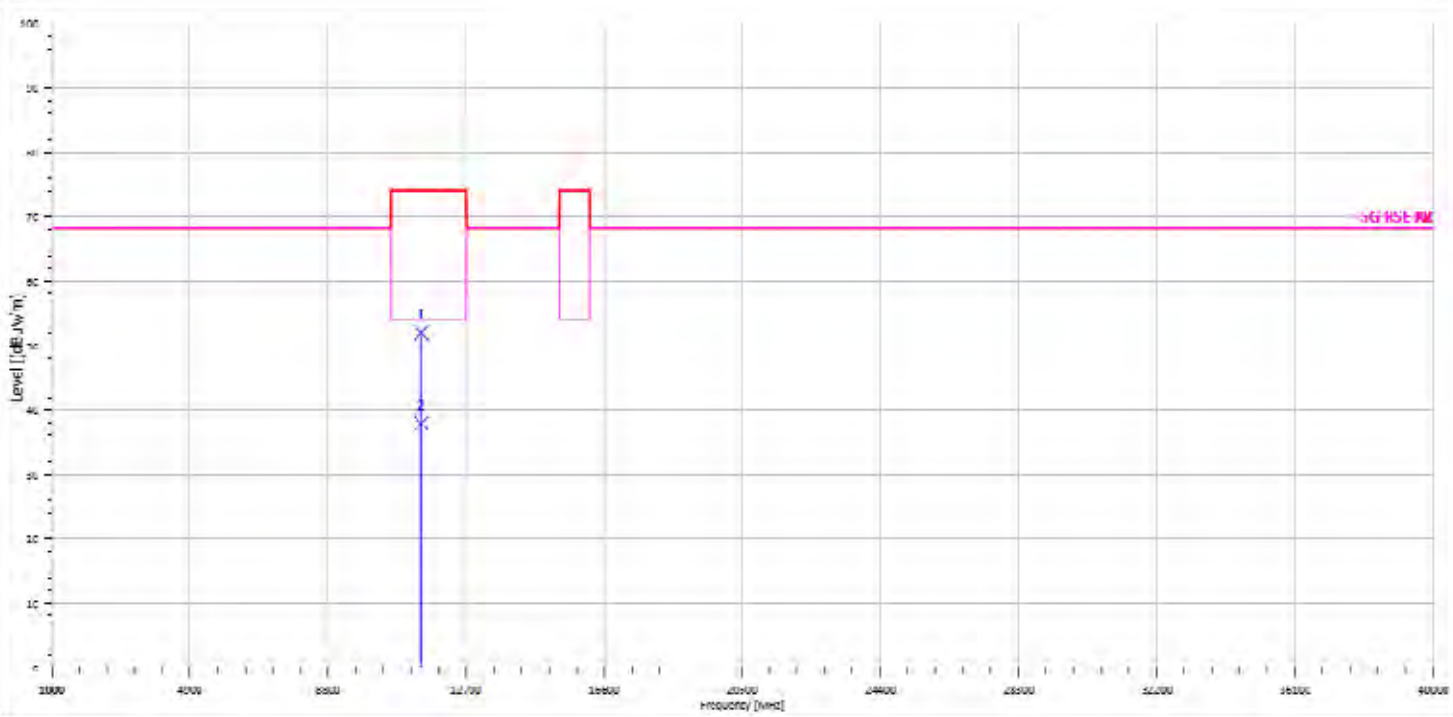
Operation Mode :	802.11n20B3	Test Date :	2018/2/26
Fundamental Frequency :	5720 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	H	Peak	40.59	11.41	52.00	74	-22.00
11440.00	H	Average	26.53	11.41	37.94	54	-16.06

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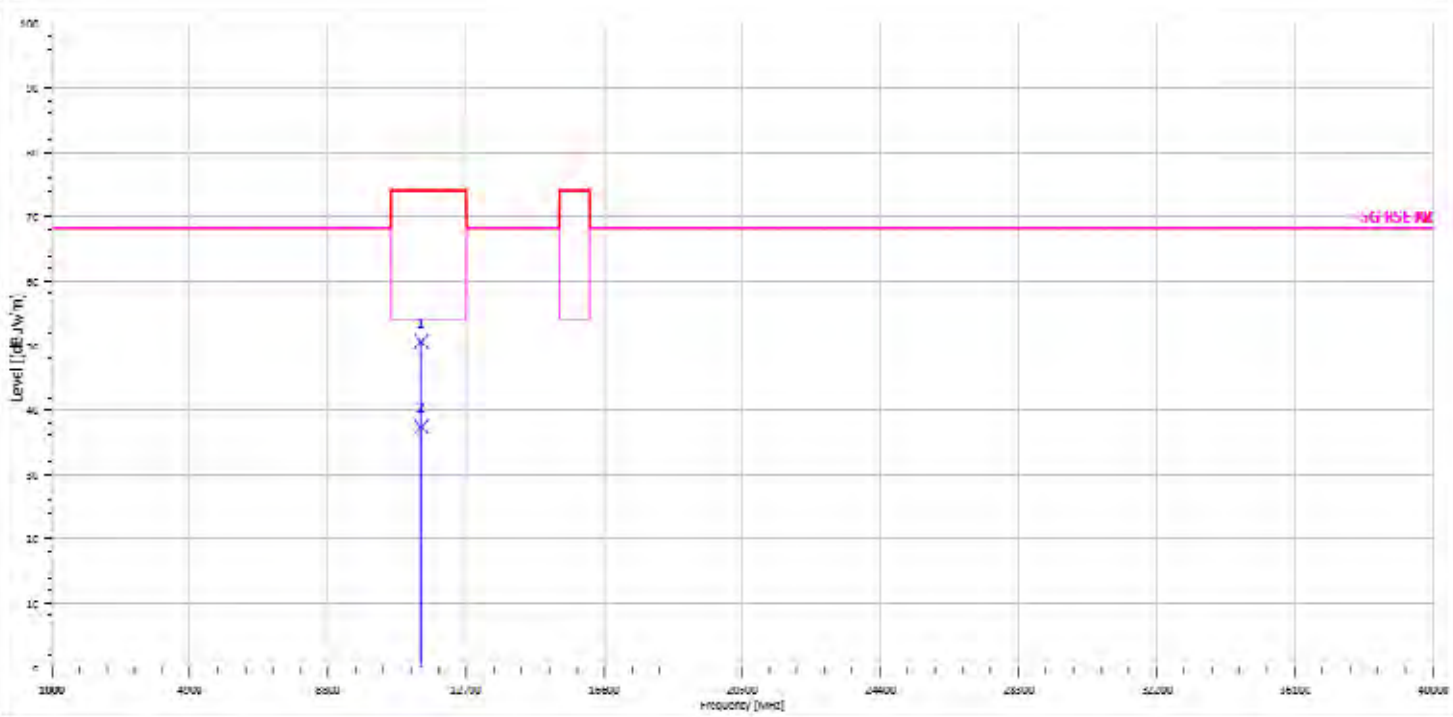
Operation Mode :	802.11n20B3	Test Date :	2018/2/26
Fundamental Frequency :	5720 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11440.00	H	Peak	39.24	11.41	50.65	74	-23.35
11440.00	H	Average	26.01	11.41	37.42	54	-16.58

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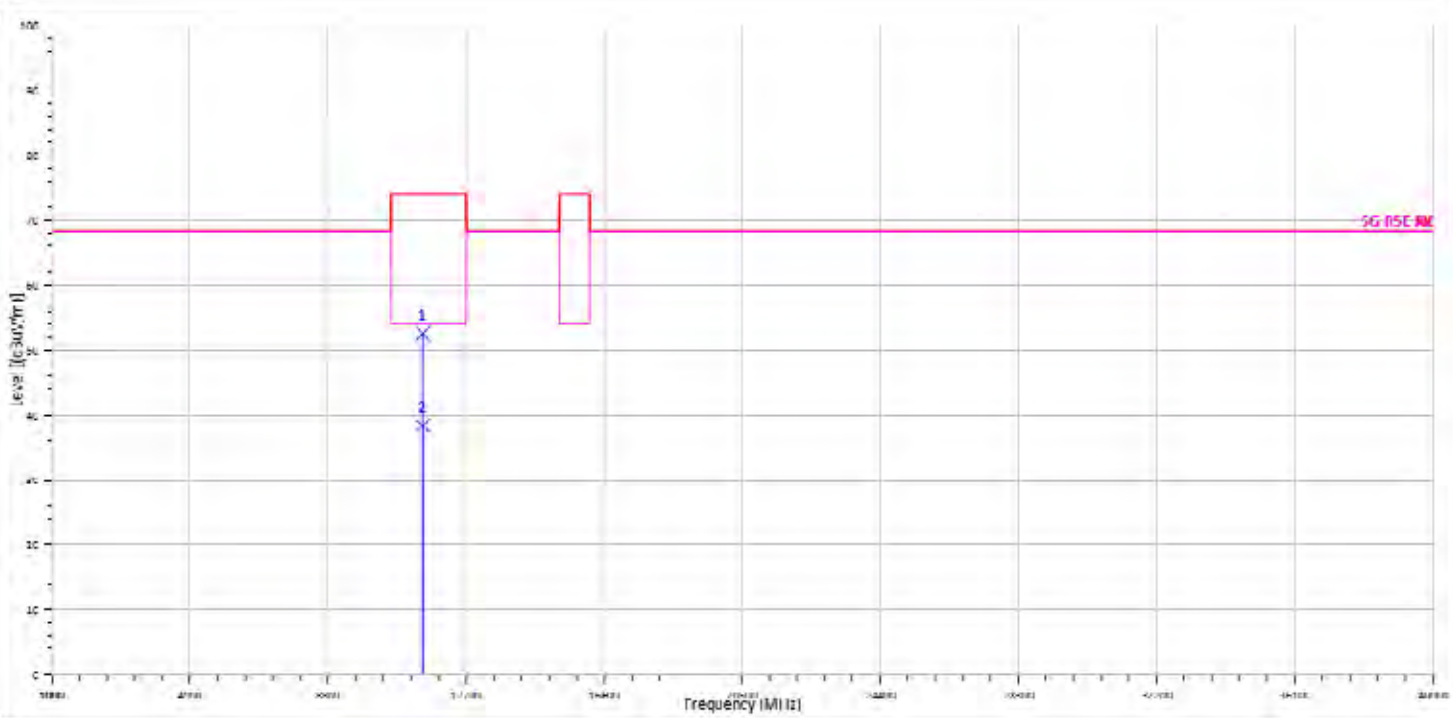
Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20B4	Test Date :	2018/2/26
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	41.39	11.18	52.56	74	-21.44
11490.00	H	Average	27.16	11.18	38.34	54	-15.66

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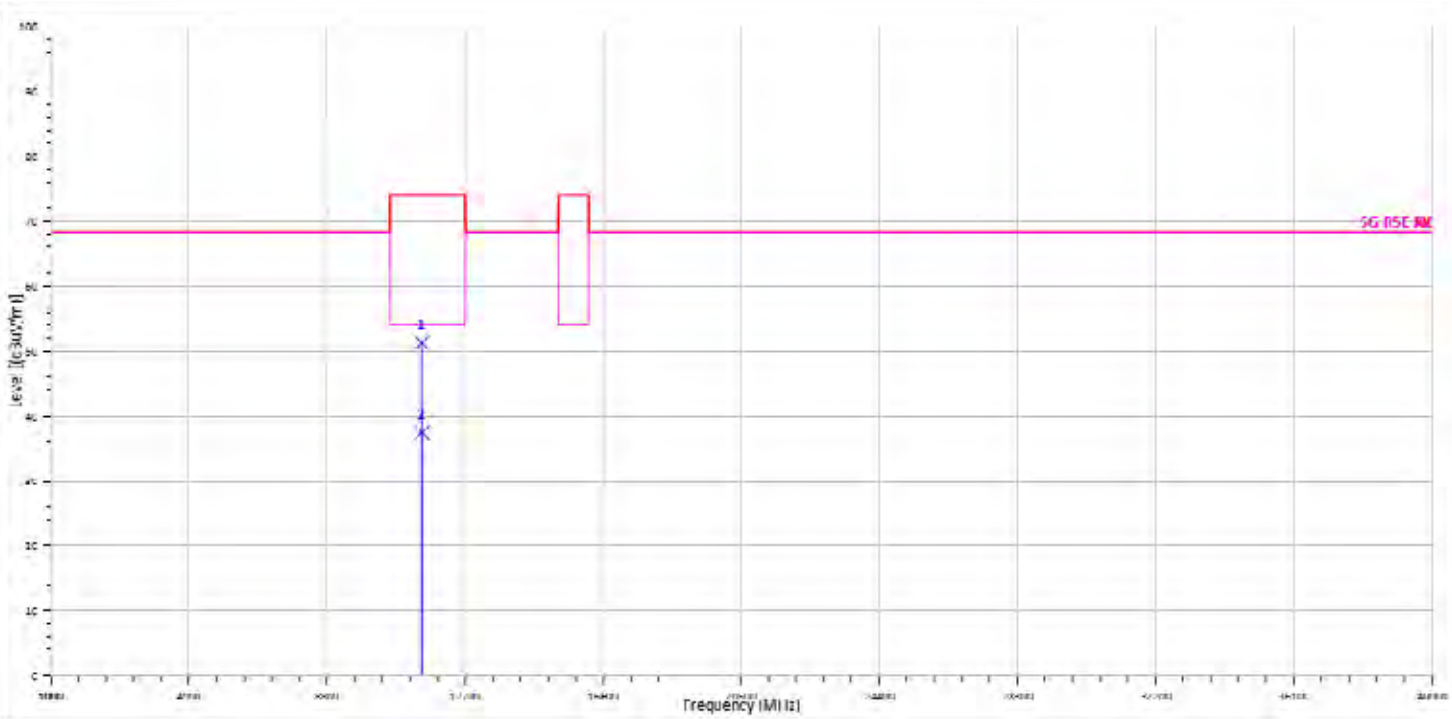
Operation Mode :	802.11n20B4	Test Date :	2018/2/26
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	40.10	11.18	51.28	74	-22.72
11490.00	H	Average	26.23	11.18	37.41	54	-16.59

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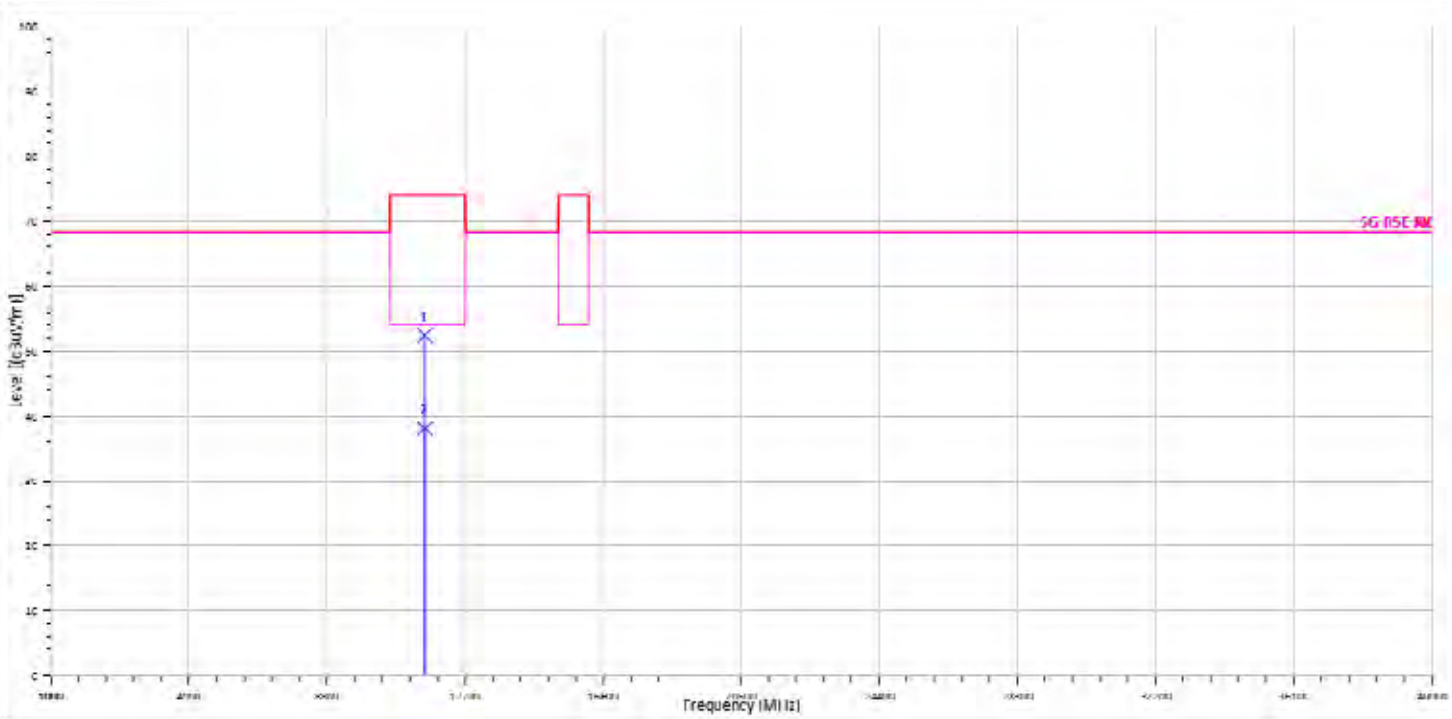
Operation Mode :	802.11n20B4	Test Date :	2018/2/26
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	41.34	11.06	52.40	74	-21.60
11570.00	H	Average	27.01	11.06	38.08	54	-15.92

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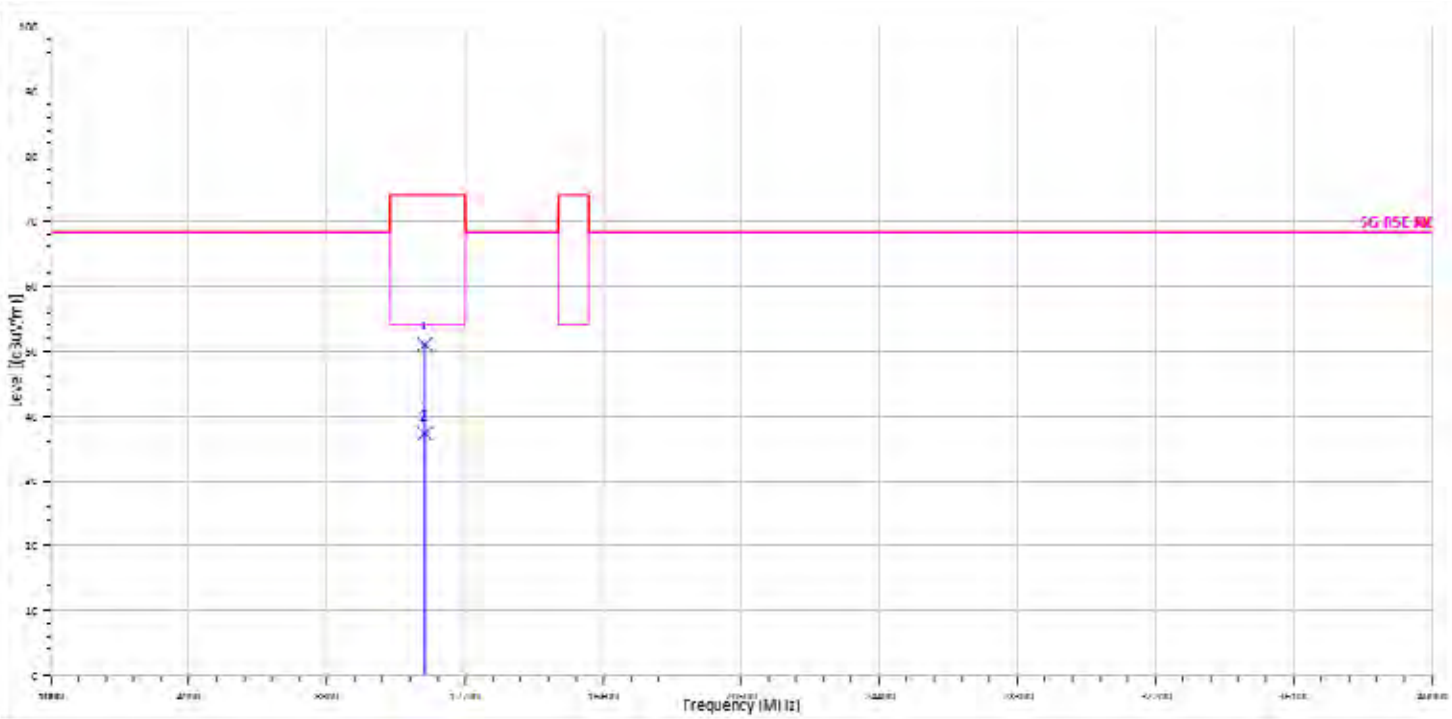
Operation Mode :	802.11n20B4	Test Date :	2018/2/26
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	39.99	11.06	51.05	74	-22.95
11570.00	H	Average	26.23	11.06	37.30	54	-16.70

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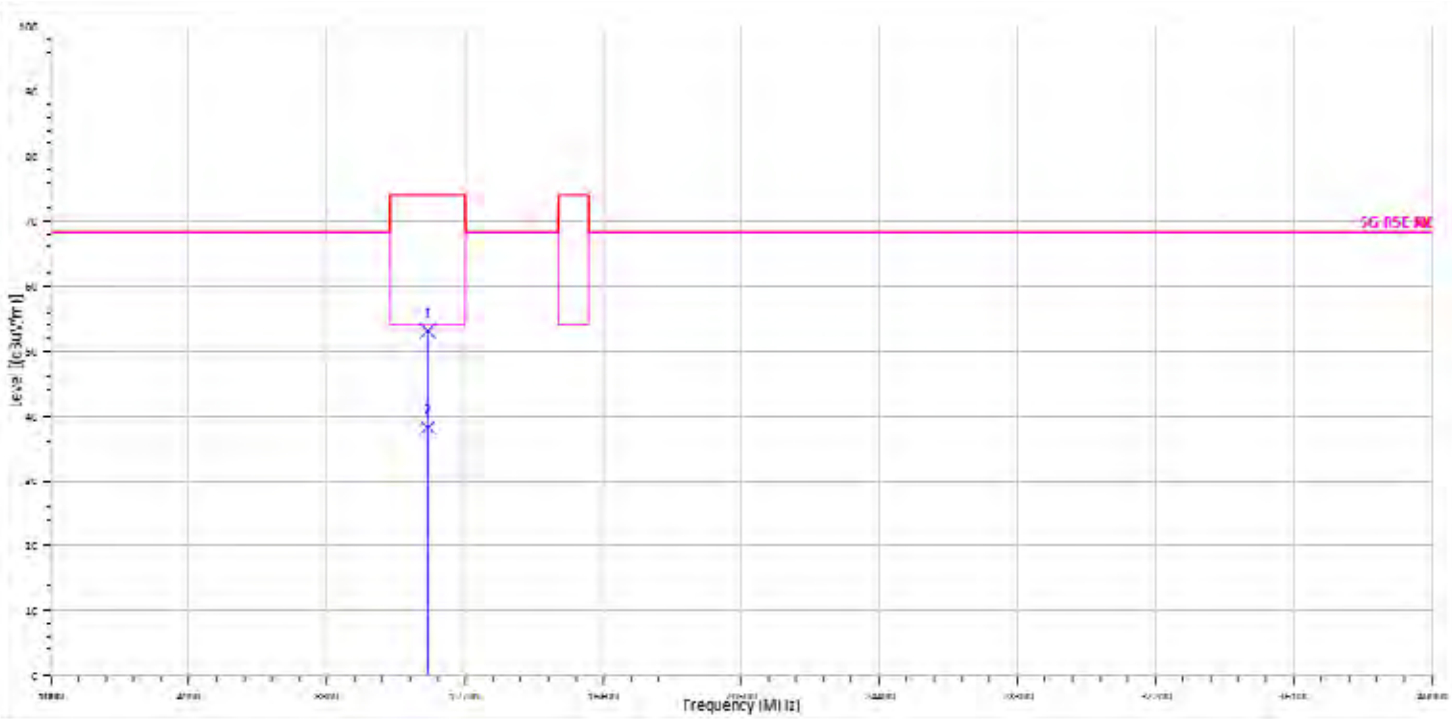
Operation Mode :	802.11n20B4	Test Date :	2018/2/26
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	H	Peak	42.39	10.69	53.08	74	-20.92
11650.00	H	Average	27.53	10.69	38.22	54	-15.78

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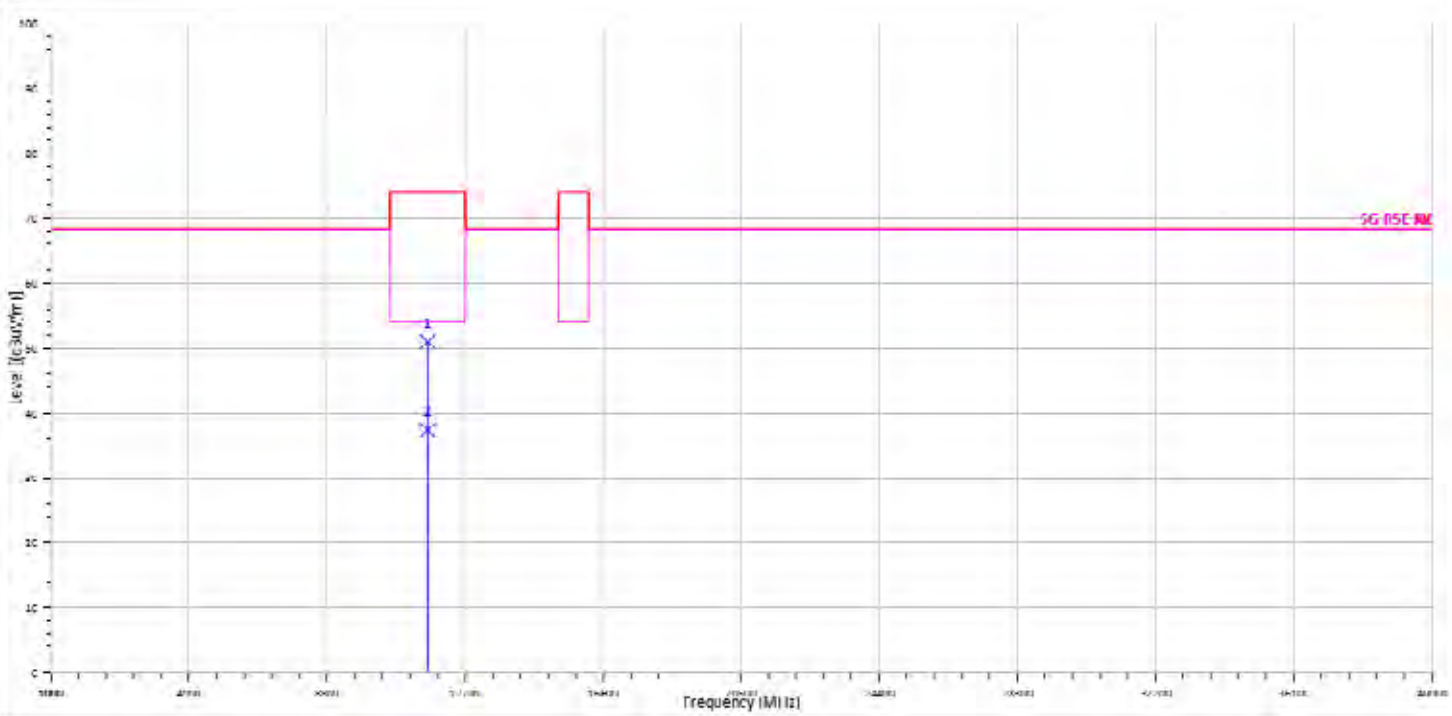
Operation Mode :	802.11n20B4	Test Date :	2018/2/26
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	H	Peak	40.32	10.69	51.01	74	-22.99
11650.00	H	Average	26.63	10.69	37.32	54	-16.68

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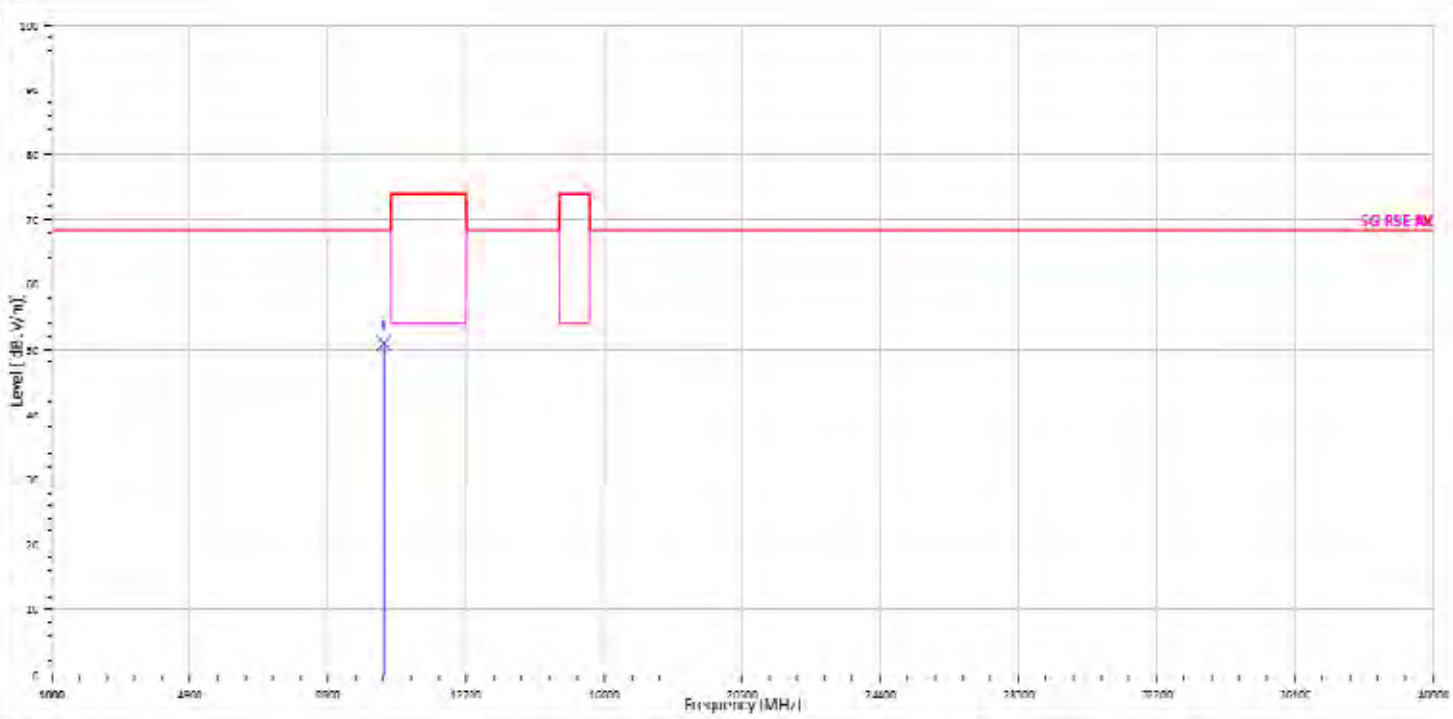
Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40B1	Test Date :	2018/2/26
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10380.00	H	Peak	41.54	9.38	50.93	68.3	-17.37

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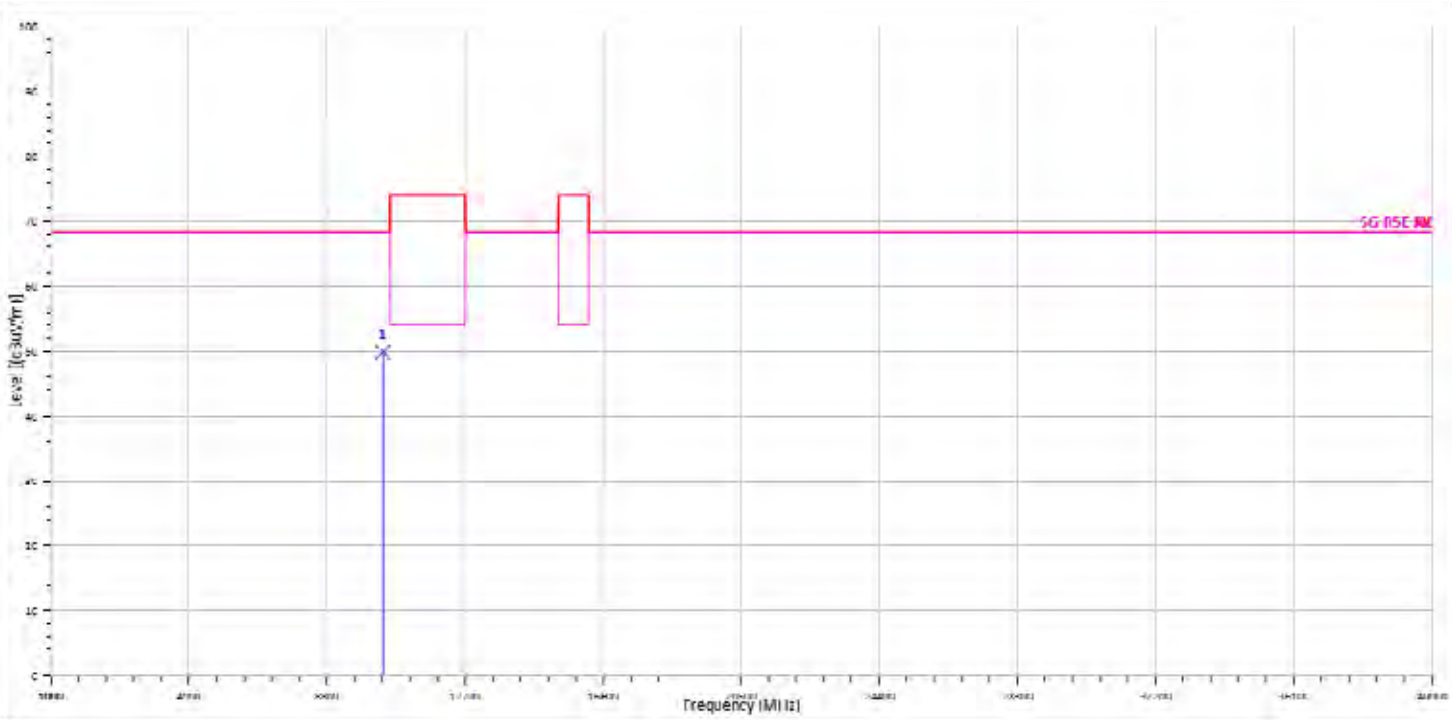
Operation Mode :	802.11n40B1	Test Date :	2018/2/26
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	H	Peak	40.45	9.38	49.84	68.3	-18.46

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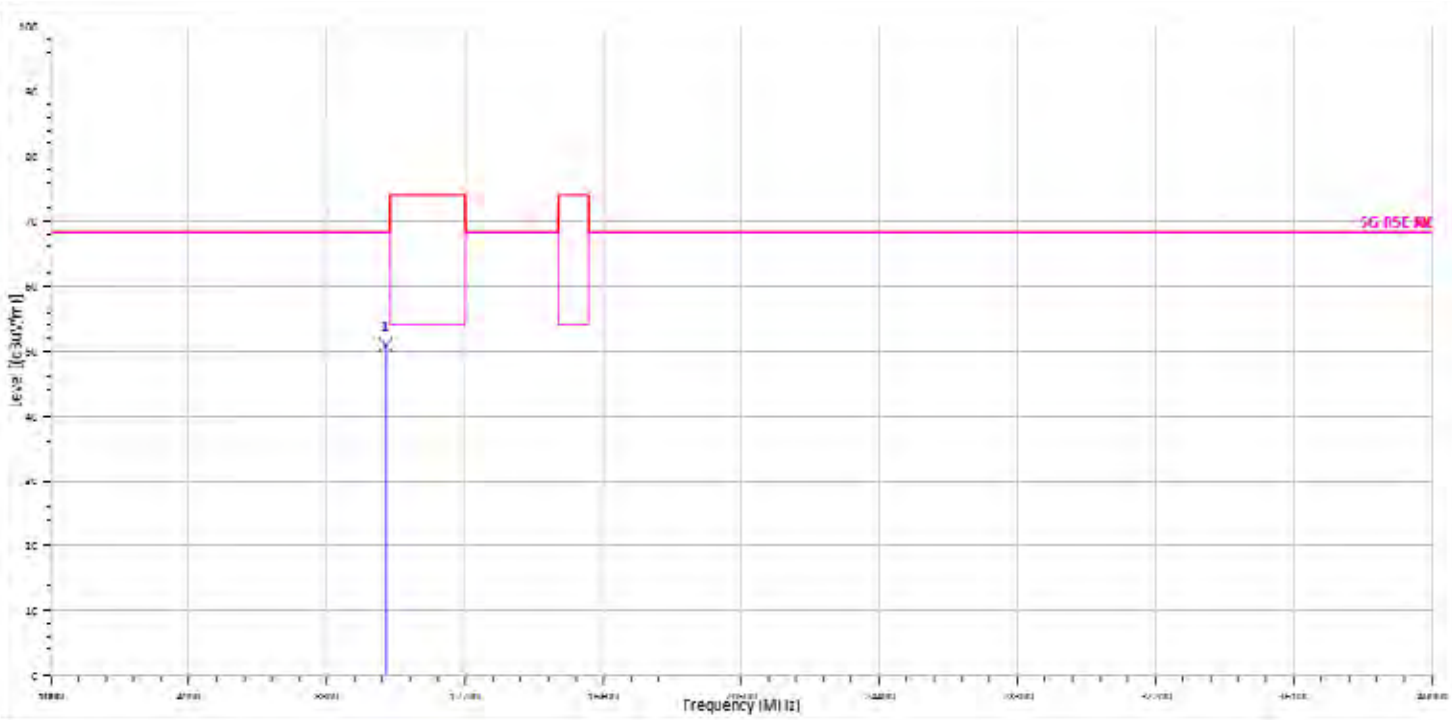
Operation Mode :	802.11n40B1	Test Date :	2018/2/26
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	H	Peak	41.34	9.61	50.95	68.3	-17.35

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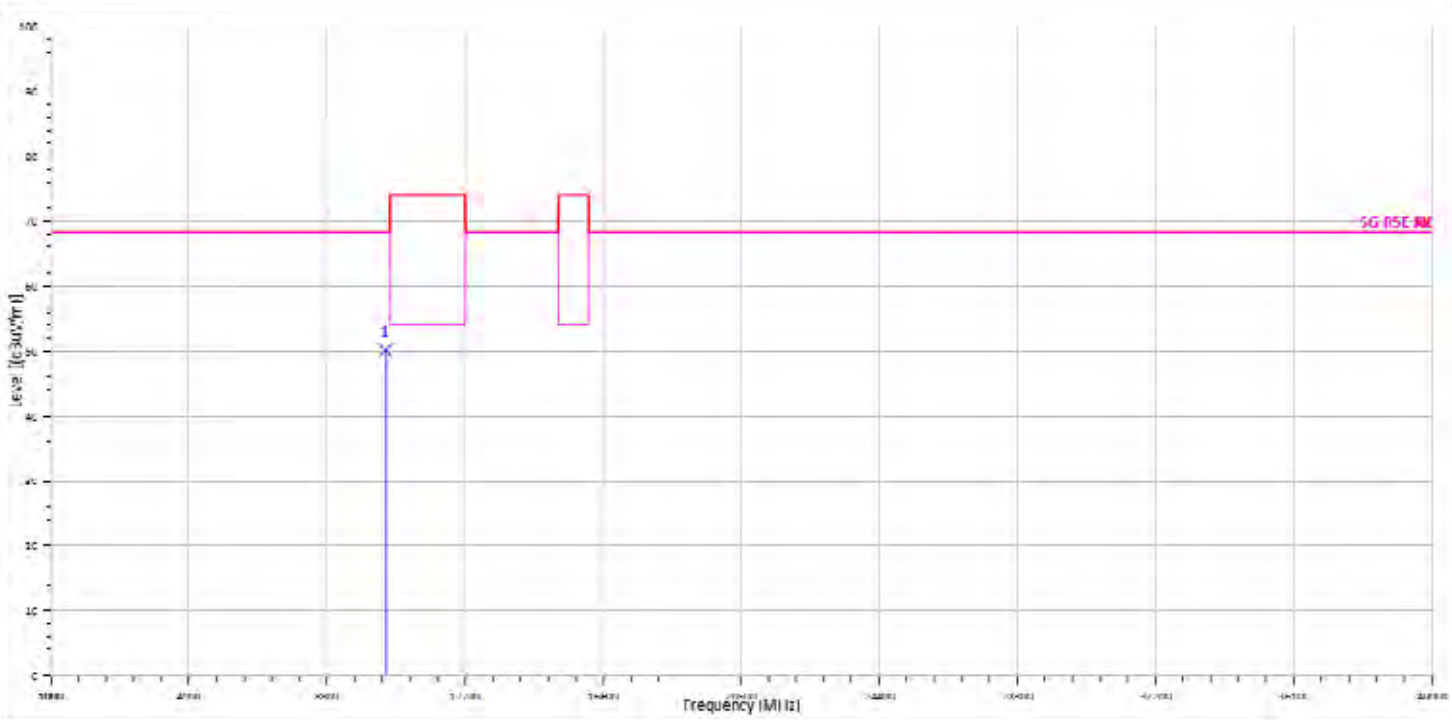
Operation Mode :	802.11n40B1	Test Date :	2018/2/26
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	H	Peak	40.55	9.61	50.15	68.3	-18.15

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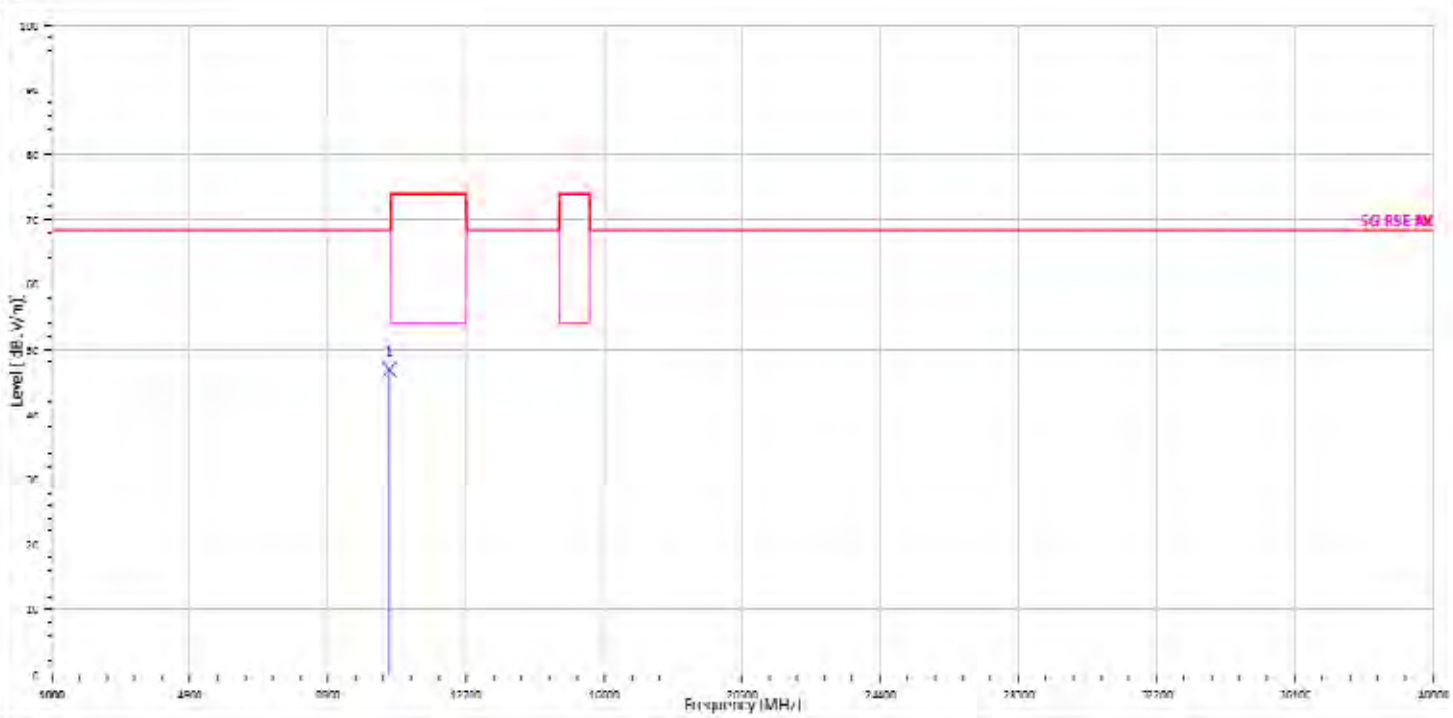
Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode :	802.11n40B2	Test Date :	2018/2/26
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10540.00	H	Peak	37.05	9.87	46.92	68.3	-21.38

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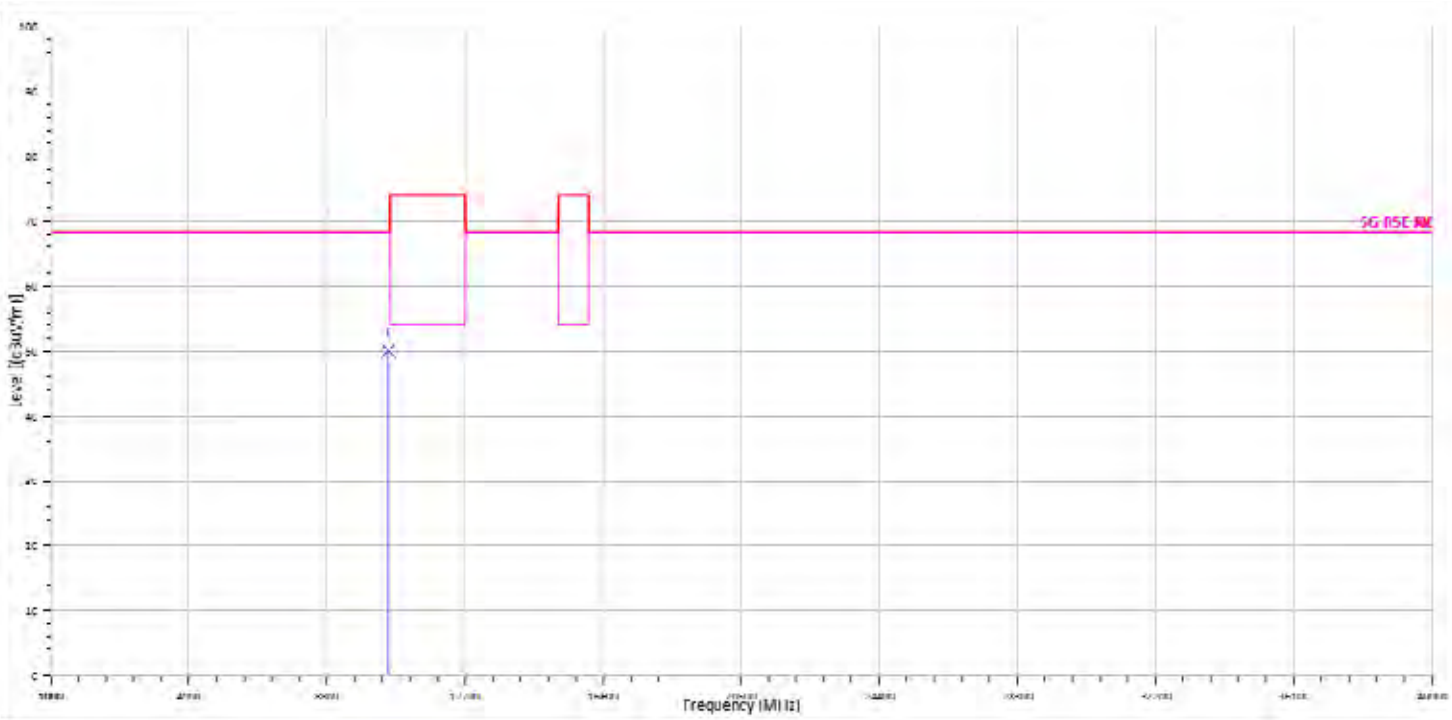
Operation Mode :	802.11n40B2	Test Date :	2018/2/26
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	H	Peak	40.21	9.87	50.08	68.3	-18.22

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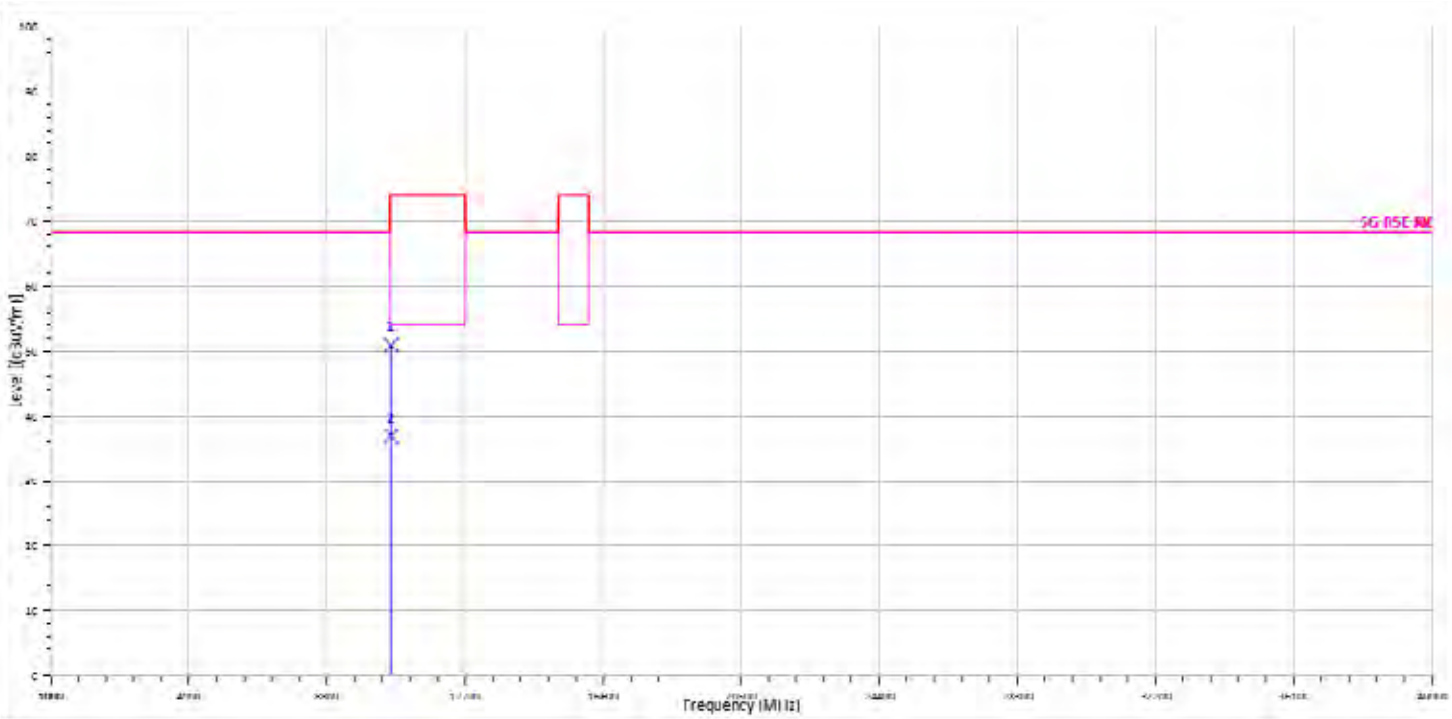
Operation Mode :	802.11n40B2	Test Date :	2018/2/26
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	H	Peak	40.84	10.11	50.95	74	-23.05
10620.00	H	Average	26.77	10.11	36.88	54	-17.12

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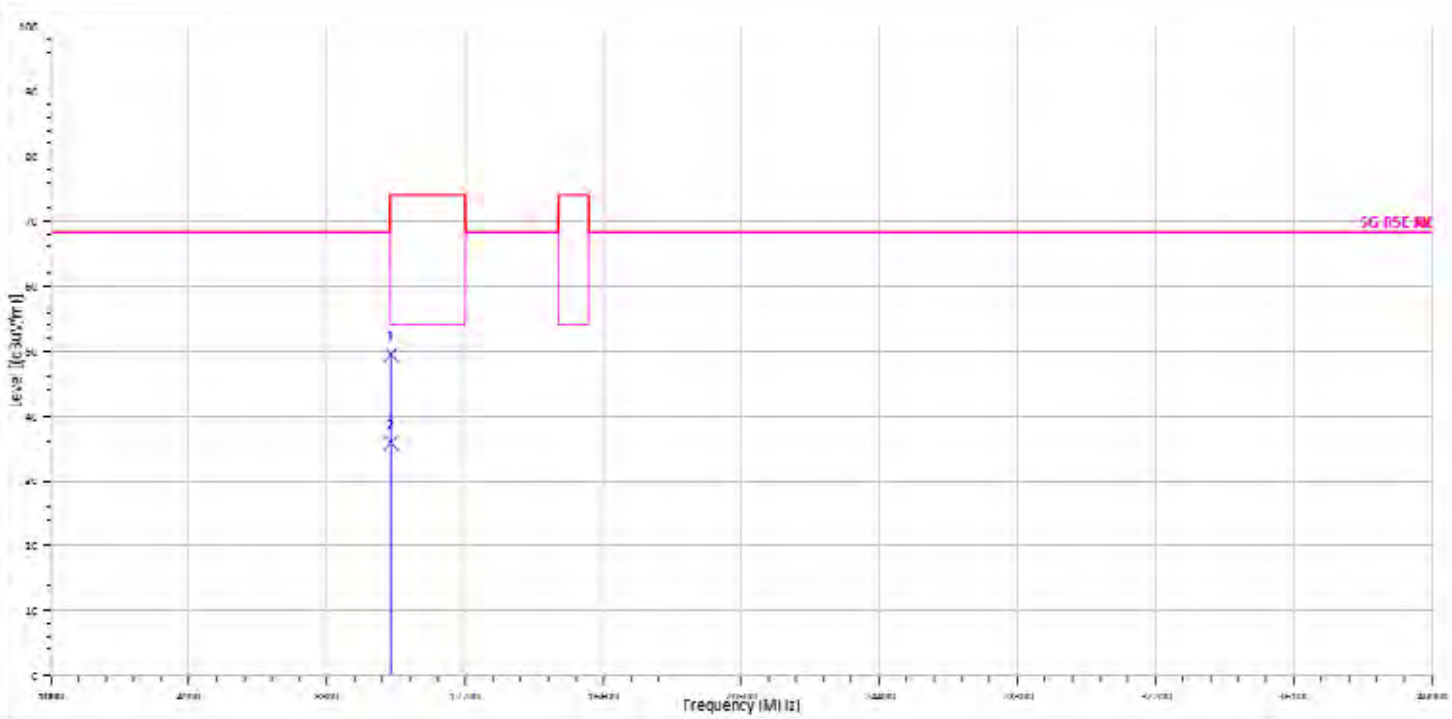
Operation Mode :	802.11n40B2	Test Date :	2018/2/26
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	H	Peak	39.34	10.11	49.45	74	-24.55
10620.00	H	Average	25.74	10.11	35.85	54	-18.15

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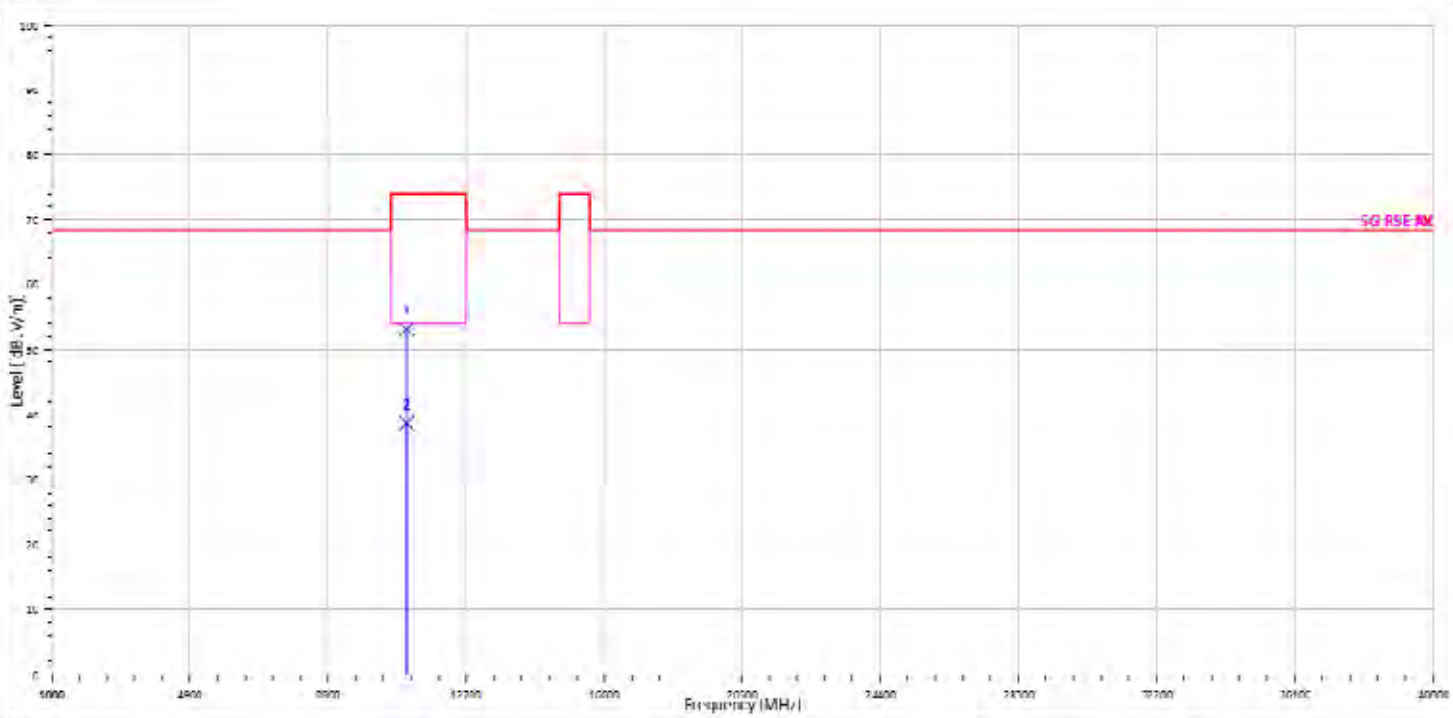
Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode :	802.11n40B3	Test Date :	2018/2/26
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11020.00	H	Peak	41.54	11.60	53.14	74	-20.86
11020.00	H	Average	27.04	11.60	38.64	54	-15.36

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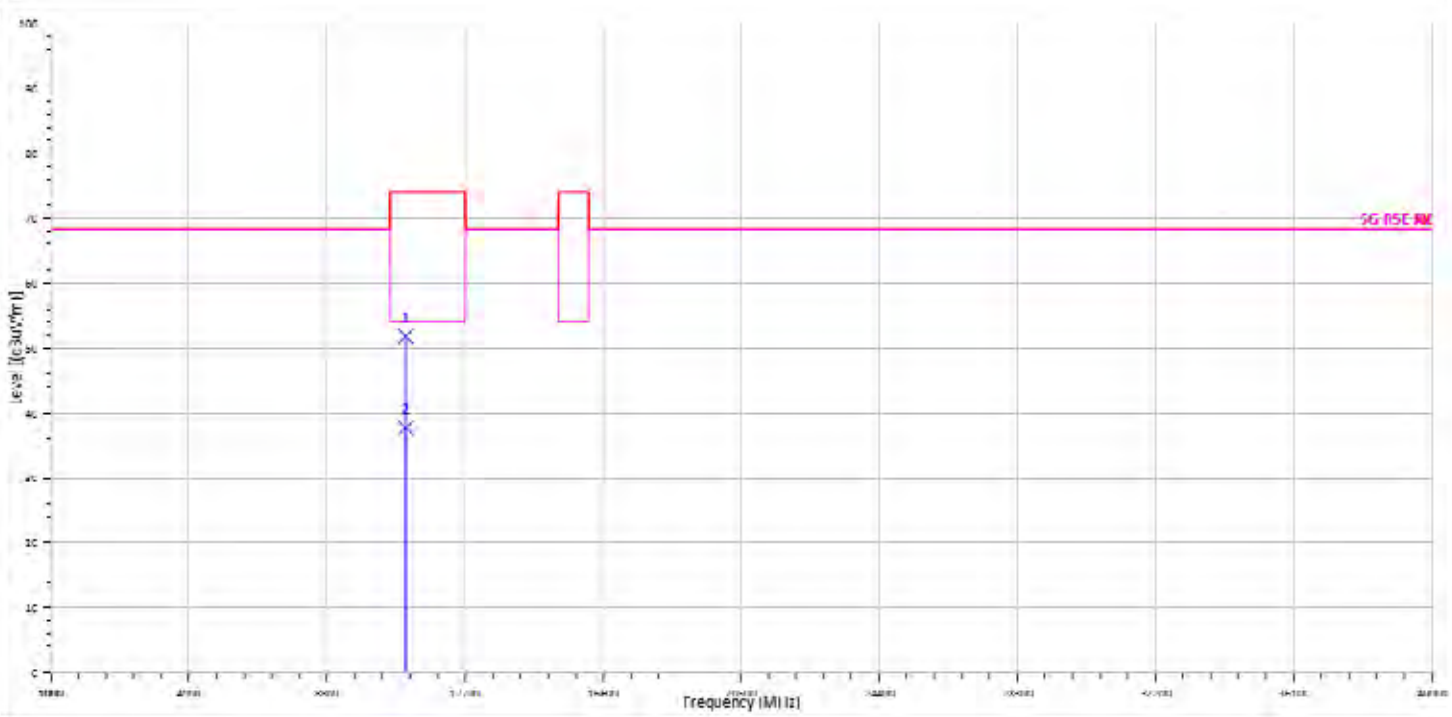
Operation Mode :	802.11n40B3	Test Date :	2018/2/26
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	H	Peak	40.24	11.60	51.84	74	-22.16
11020.00	H	Average	26.14	11.60	37.73	54	-16.27

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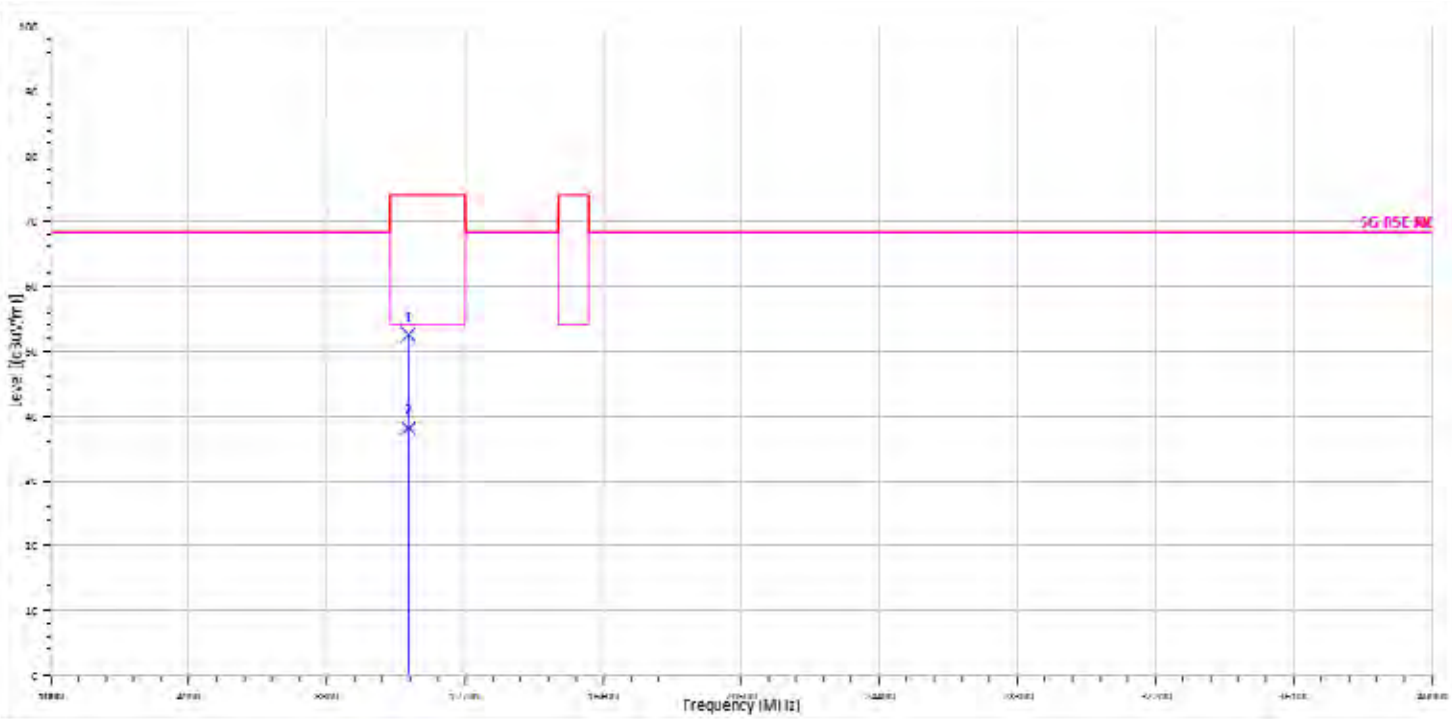
Operation Mode :	802.11n40B3	Test Date :	2018/2/26
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	H	Peak	41.38	11.15	52.53	74	-21.47
11100.00	H	Average	26.97	11.15	38.12	54	-15.88

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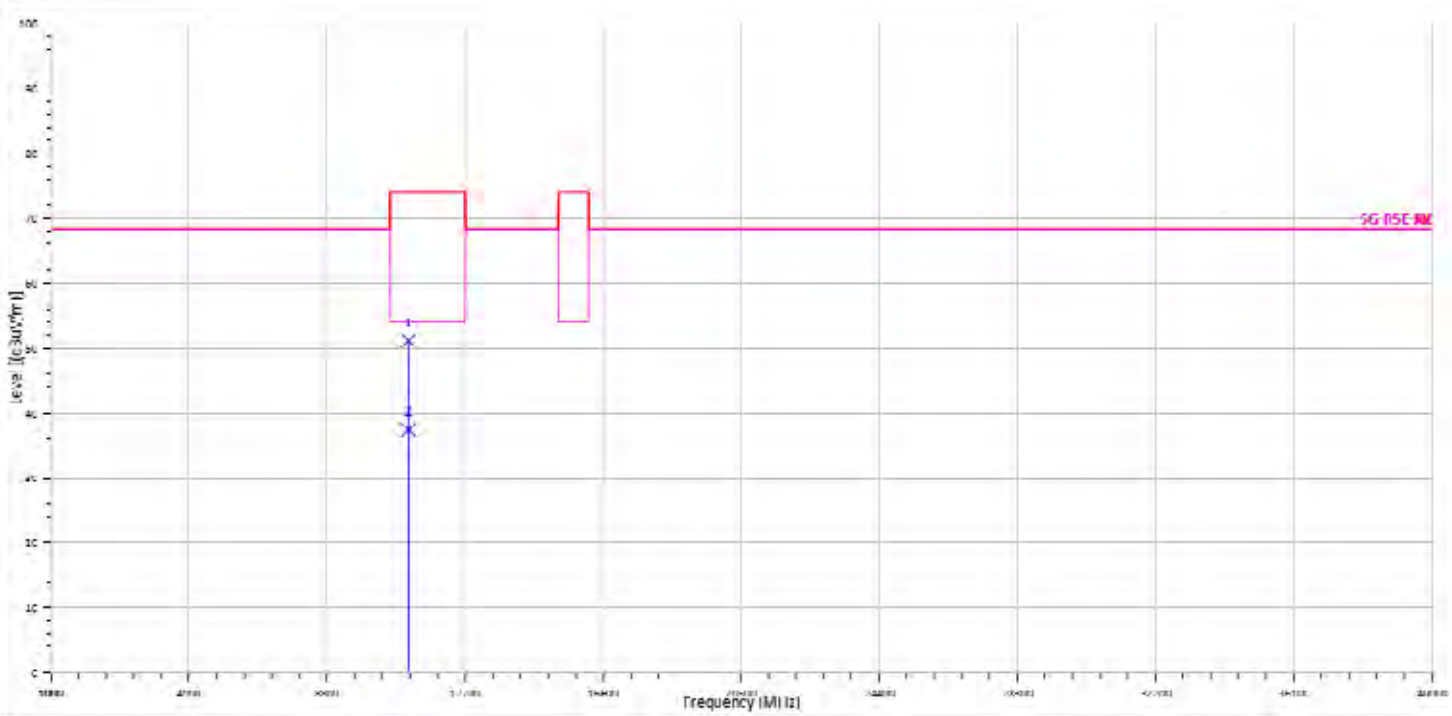
Operation Mode :	802.11n40B3	Test Date :	2018/2/26
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	H	Peak	40.02	11.15	51.17	74	-22.83
11100.00	H	Average	26.22	11.15	37.37	54	-16.63

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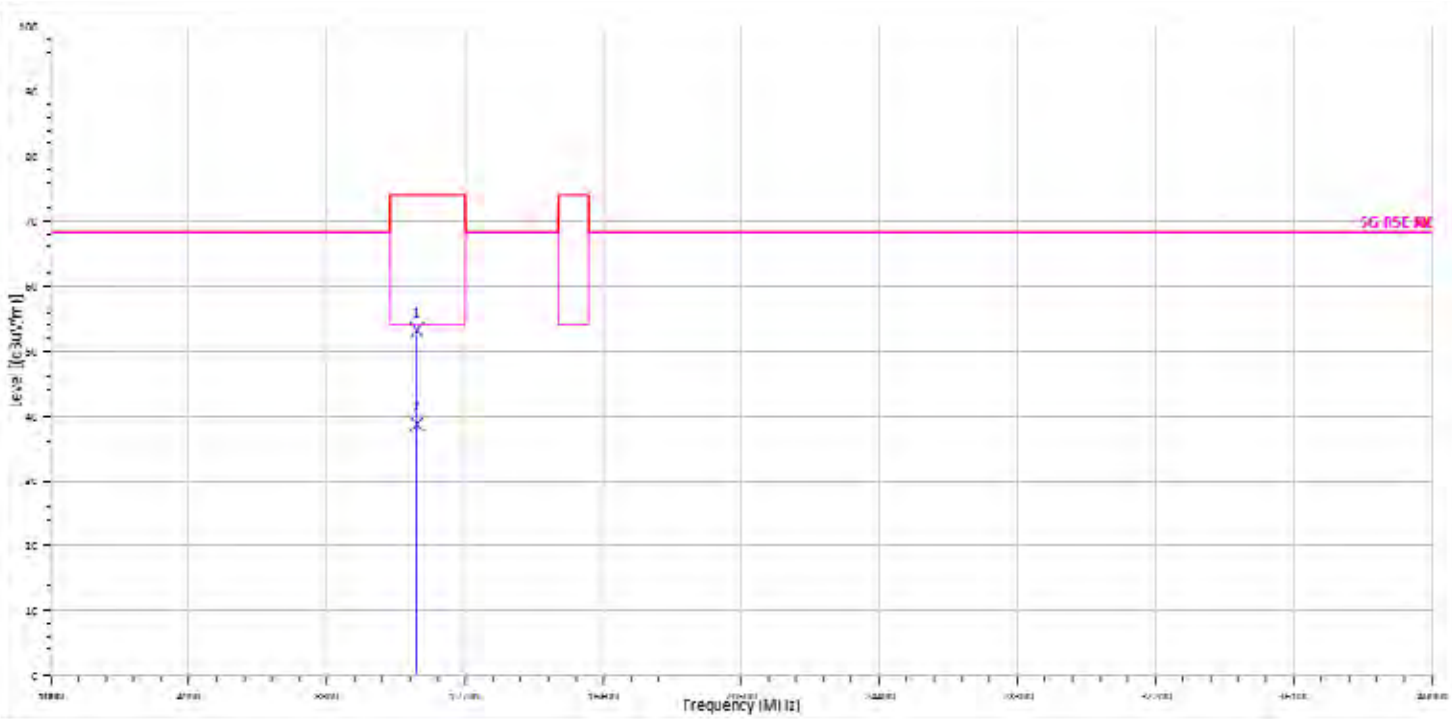
Operation Mode :	802.11n40B3	Test Date :	2018/2/26
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	H	Peak	41.84	11.37	53.21	74	-20.79
11340.00	H	Average	27.40	11.37	38.77	54	-15.23

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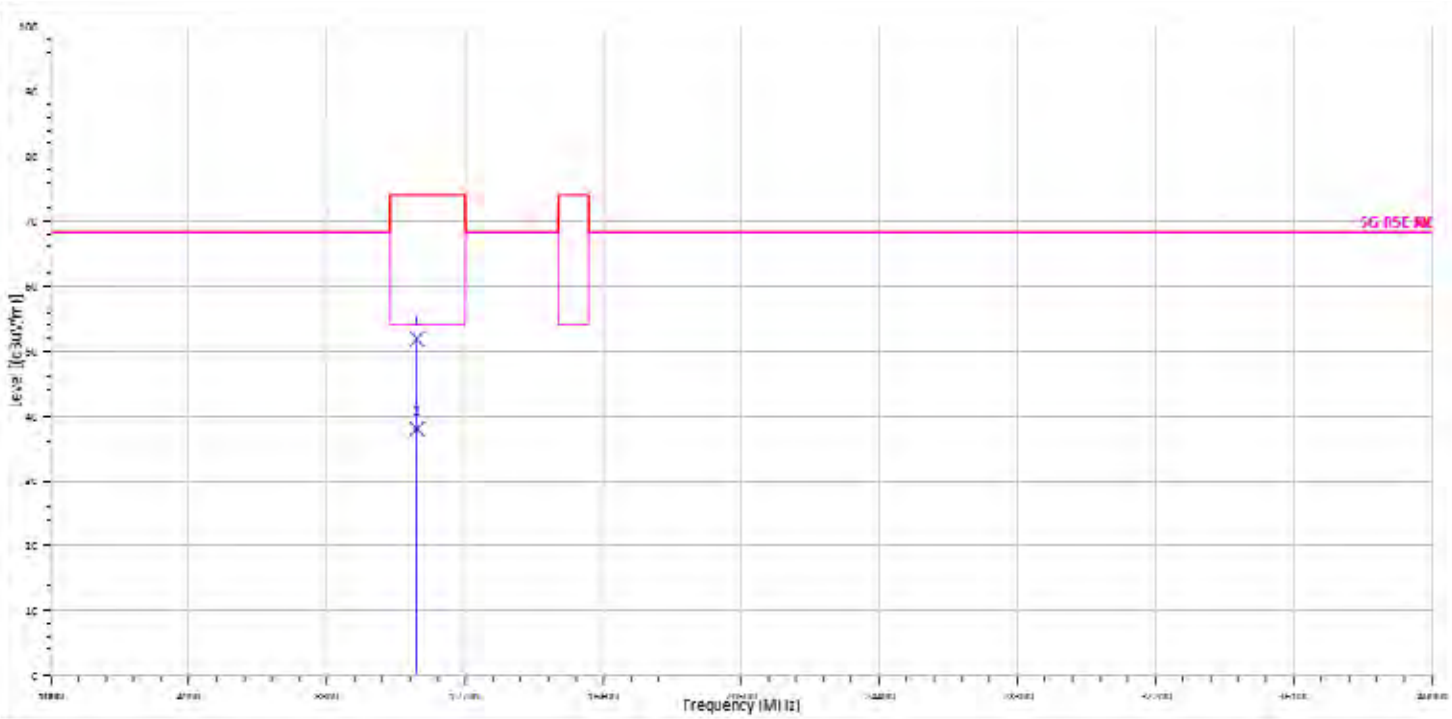
Operation Mode :	802.11n40B3	Test Date :	2018/2/26
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	H	Peak	40.54	11.37	51.91	74	-22.09
11340.00	H	Average	26.63	11.37	38.00	54	-16.00

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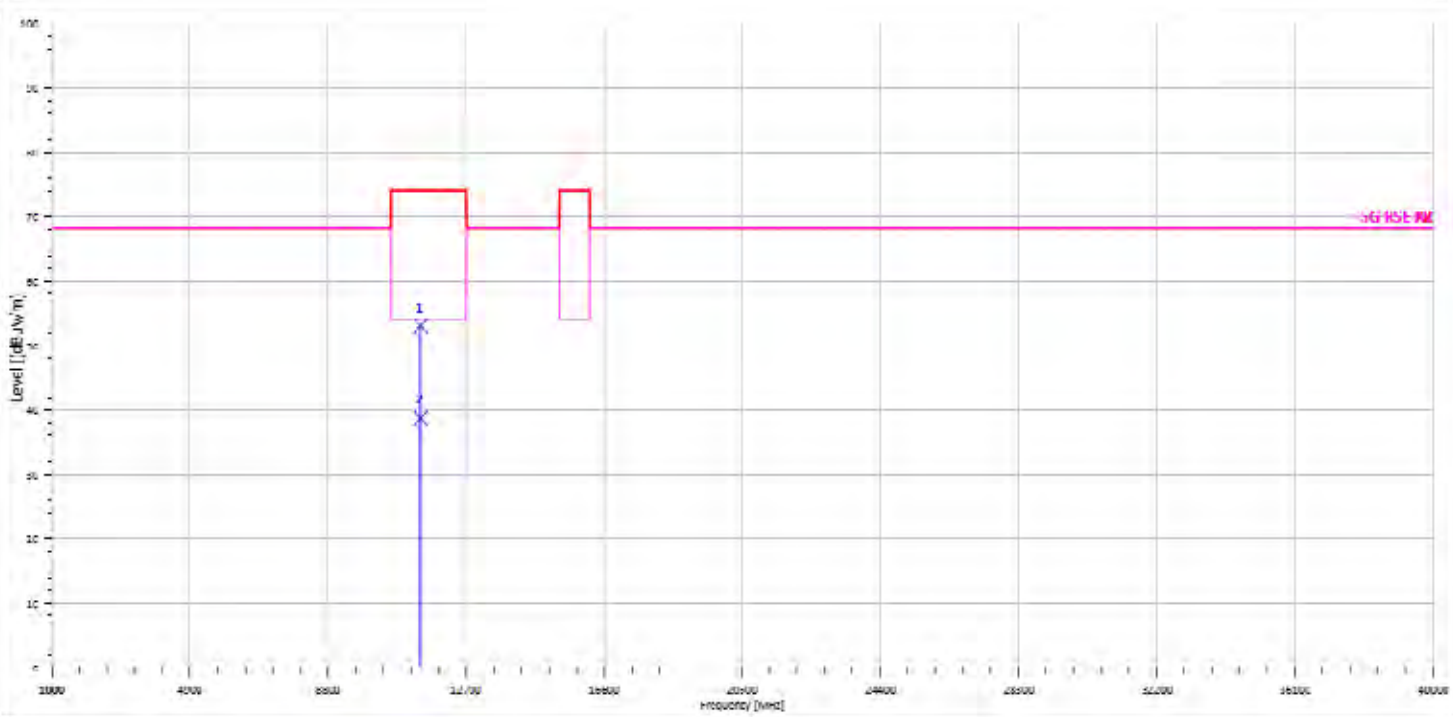
Operation Mode :	802.11n40B3	Test Date :	2018/2/26
Fundamental Frequency :	5710 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11420.00	H	Peak	41.56	11.51	53.07	74	-20.93
11420.00	H	Average	27.26	11.51	38.76	54	-15.24

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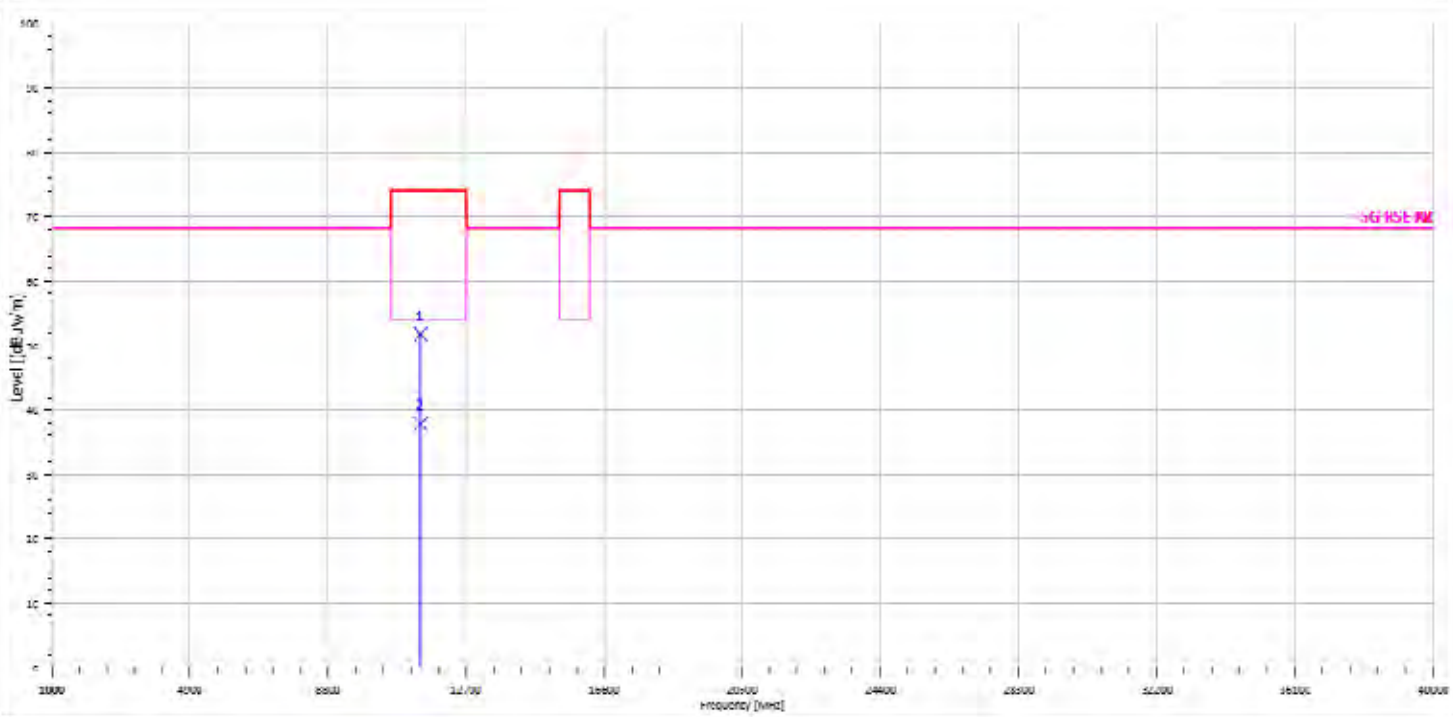
Operation Mode :	802.11n40B3	Test Date :	2018/2/26
Fundamental Frequency :	5710 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11420.00	H	Peak	40.28	11.51	51.78	74	-22.22
11420.00	H	Average	26.36	11.51	37.86	54	-16.14

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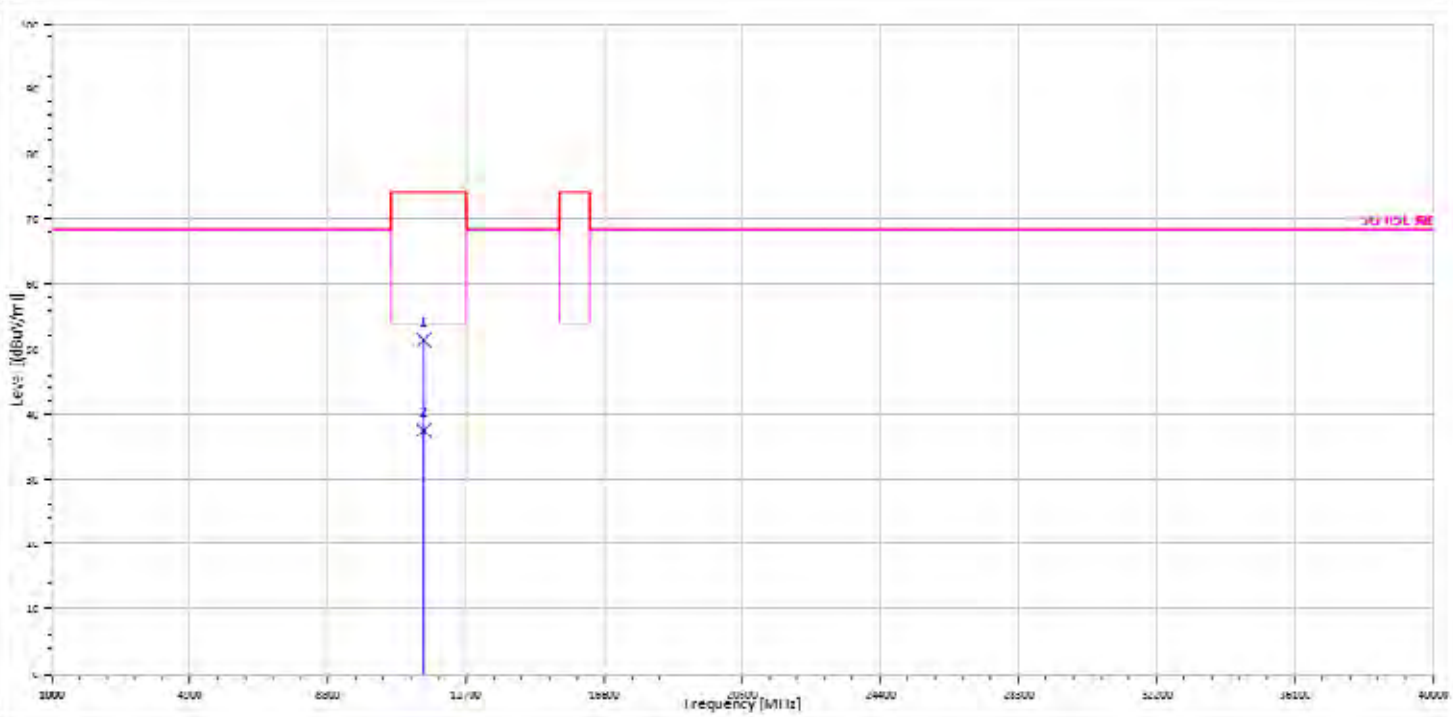
Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11n40B4	Test Date :	2018/2/26
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11510.00	H	Peak	40.24	11.12	51.36	74	-22.64
11510.00	H	Average	26.38	11.12	37.50	54	-16.50

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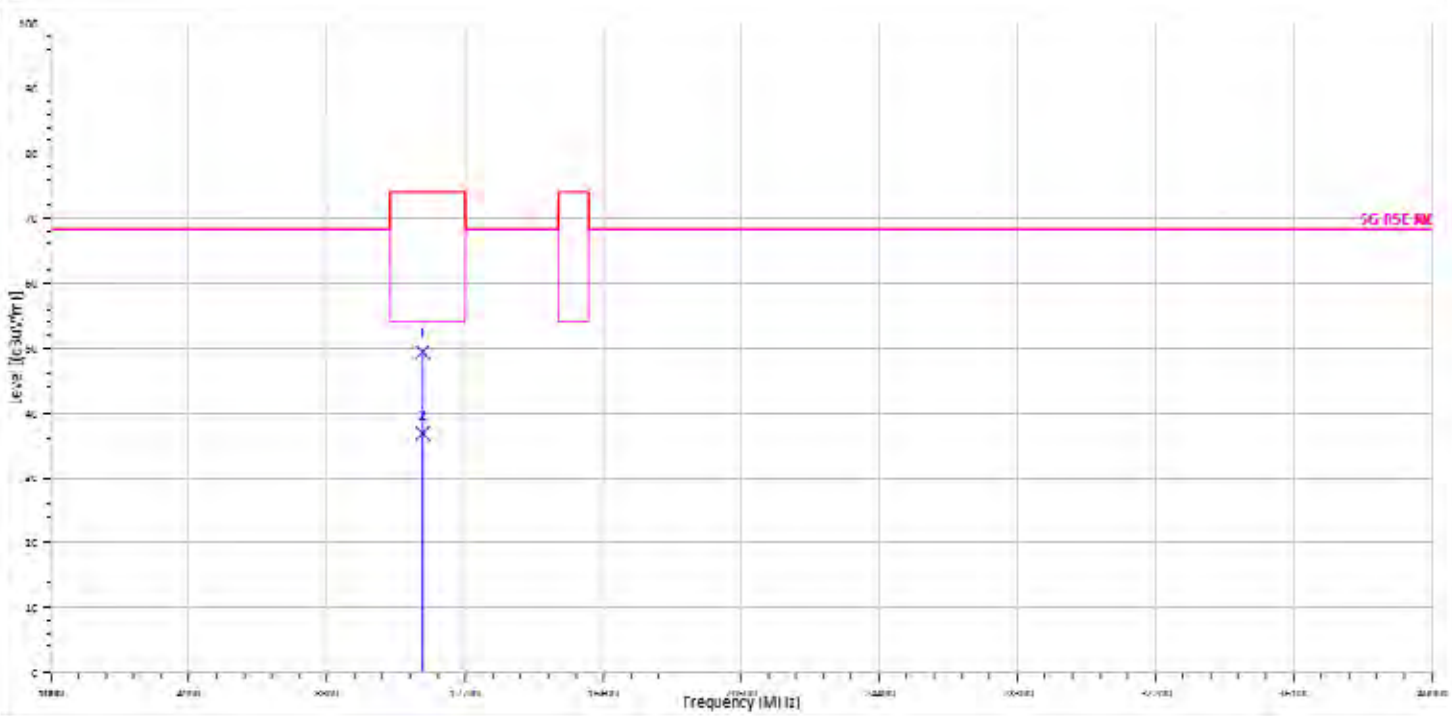
Operation Mode :	802.11n40B4	Test Date :	2018/2/26
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	H	Peak	38.23	11.12	49.35	74	-24.65
11510.00	H	Average	25.68	11.12	36.80	54	-17.20

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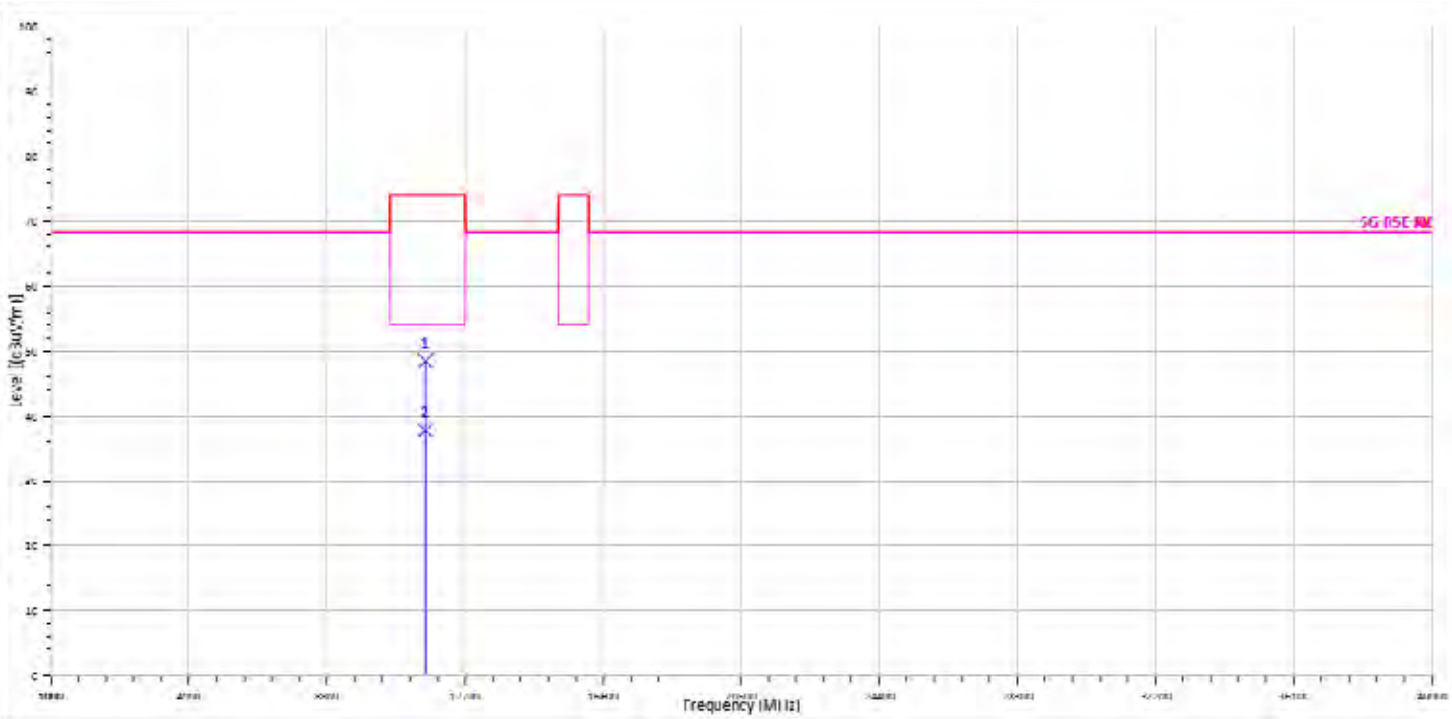
Operation Mode :	802.11n40B4	Test Date :	2018/2/26
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	H	Peak	40.83	11.05	48.45	74	-25.55
11590.00	H	Average	26.71	11.05	37.76	54	-16.24

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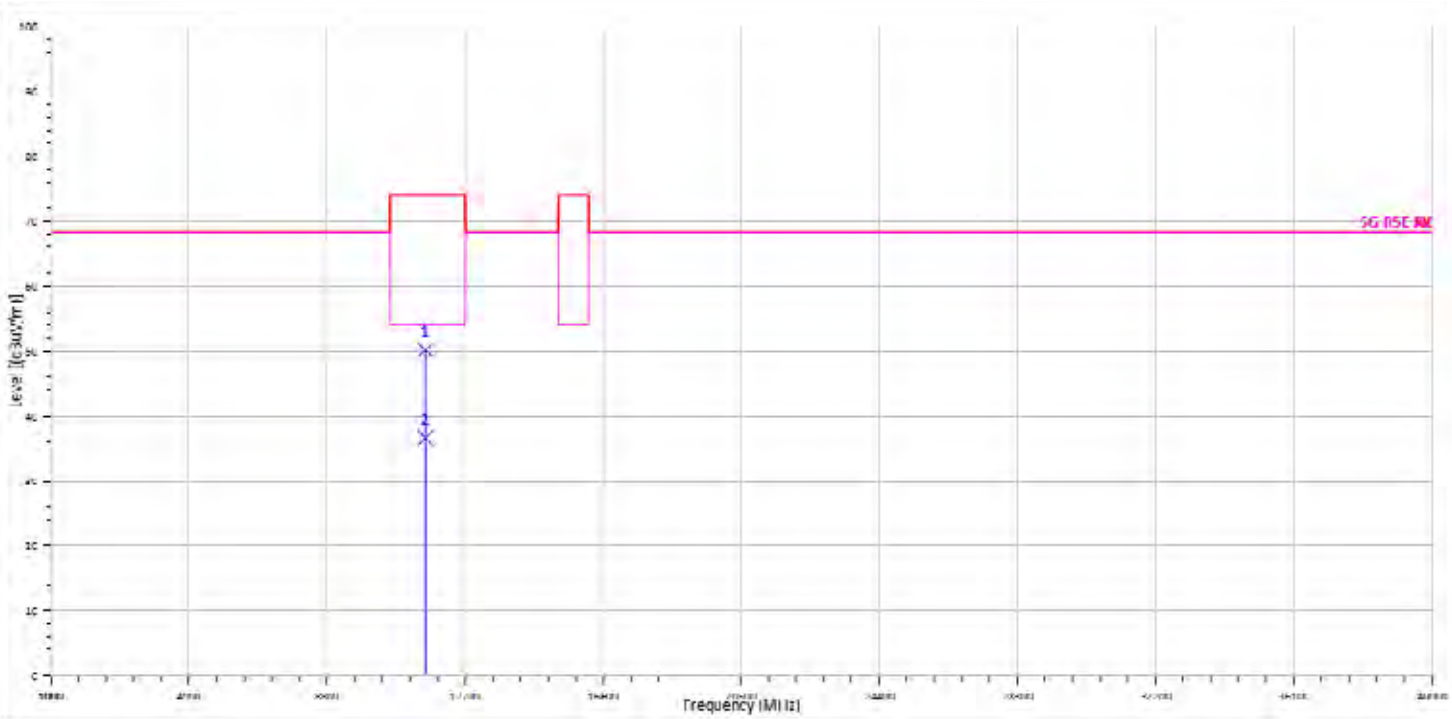
Operation Mode :	802.11n40B4	Test Date :	2018/2/26
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	H	Peak	39.10	11.05	50.15	74	-23.85
11590.00	H	Average	25.53	11.05	36.58	54	-17.42

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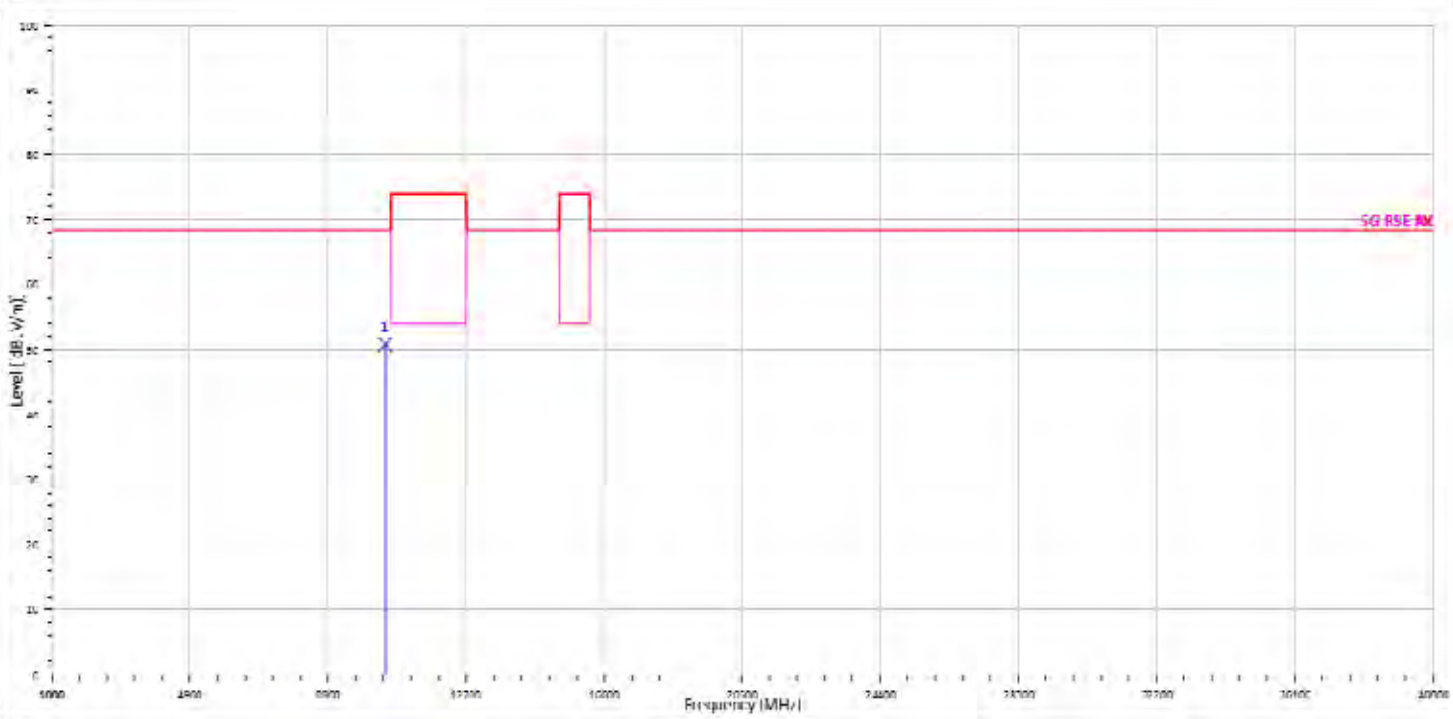
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80B1	Test Date :	2018/2/26
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10420.00	H	Peak	41.26	9.53	50.79	68.3	-17.51

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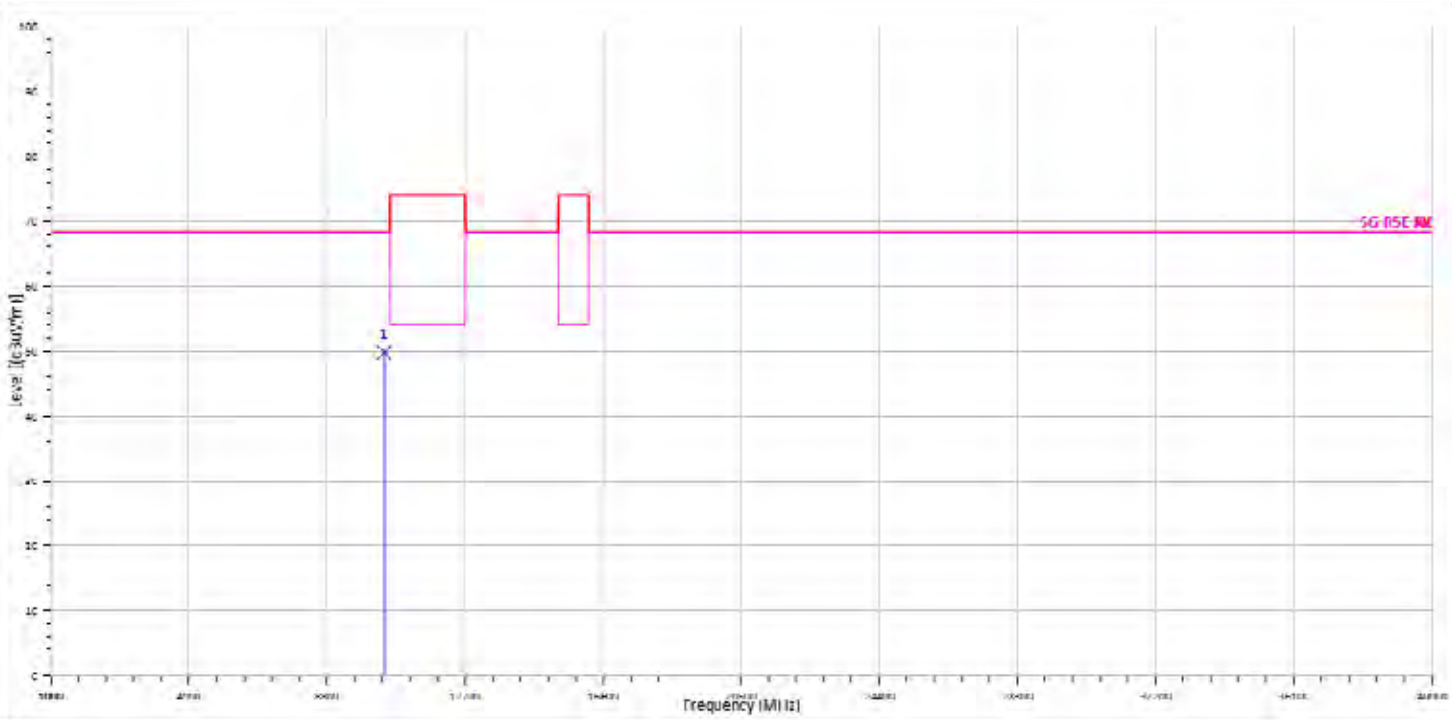
Operation Mode :	802.11ac80B1	Test Date :	2018/2/26
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	H	Peak	40.24	9.53	49.77	68.3	-18.53

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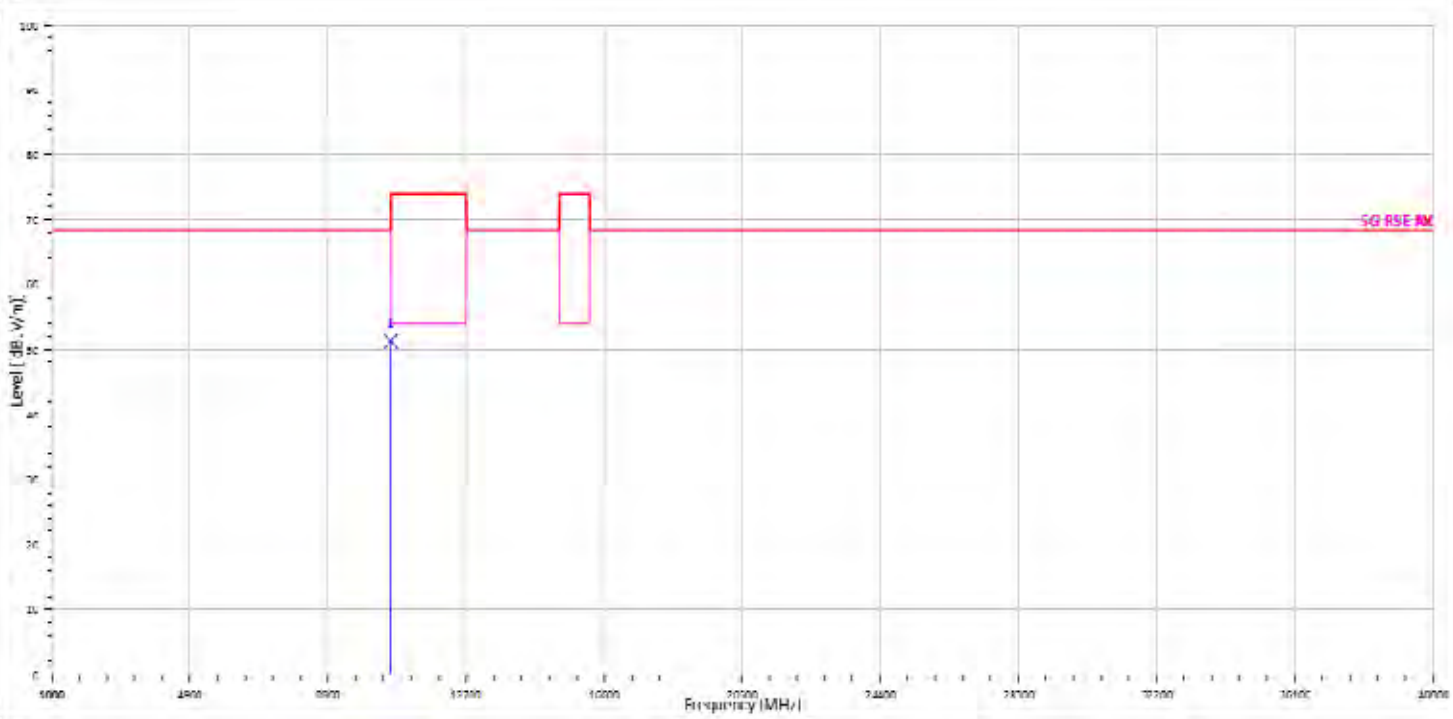
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80B2	Test Date :	2018/2/26
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10580.00	H	Peak	41.20	10.05	51.25	68.3	-17.05

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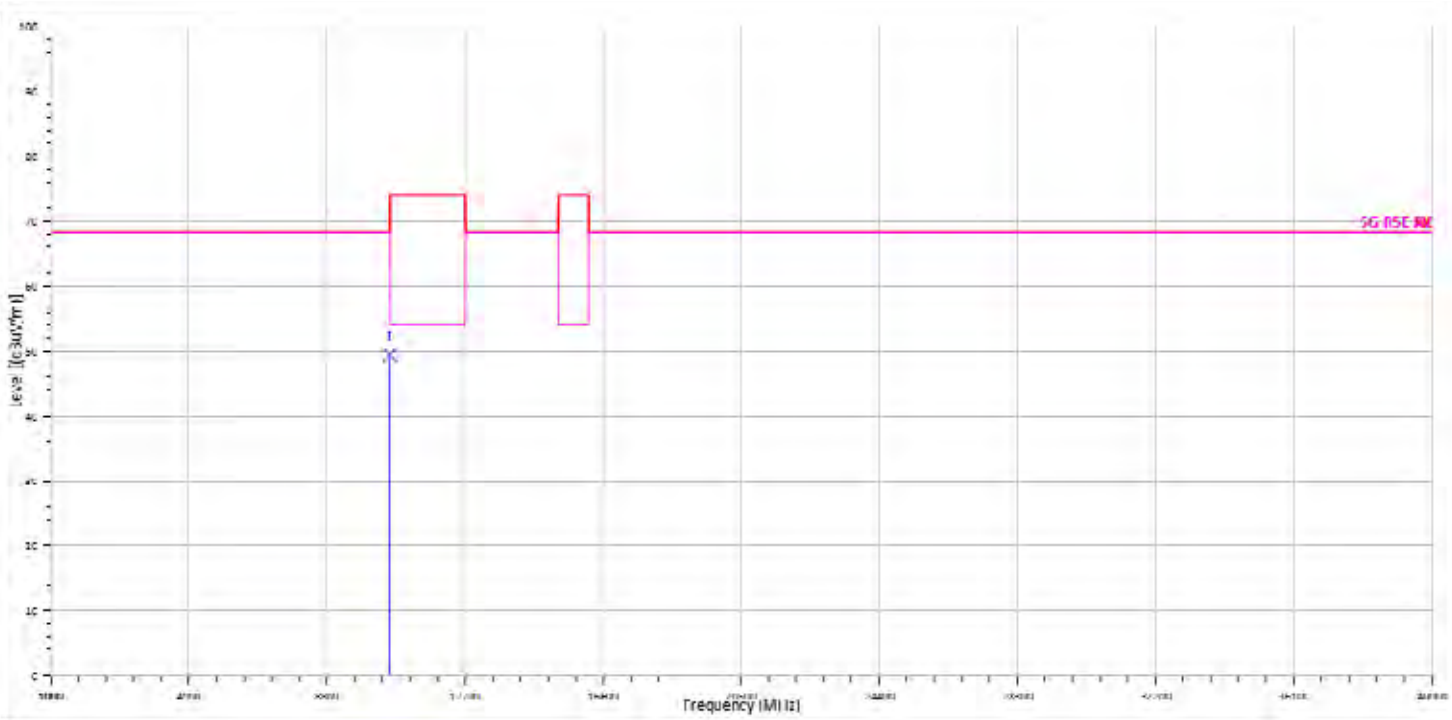
Operation Mode :	802.11ac80B2	Test Date :	2018/2/26
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	H	Peak	39.33	10.05	49.38	68.3	-18.92

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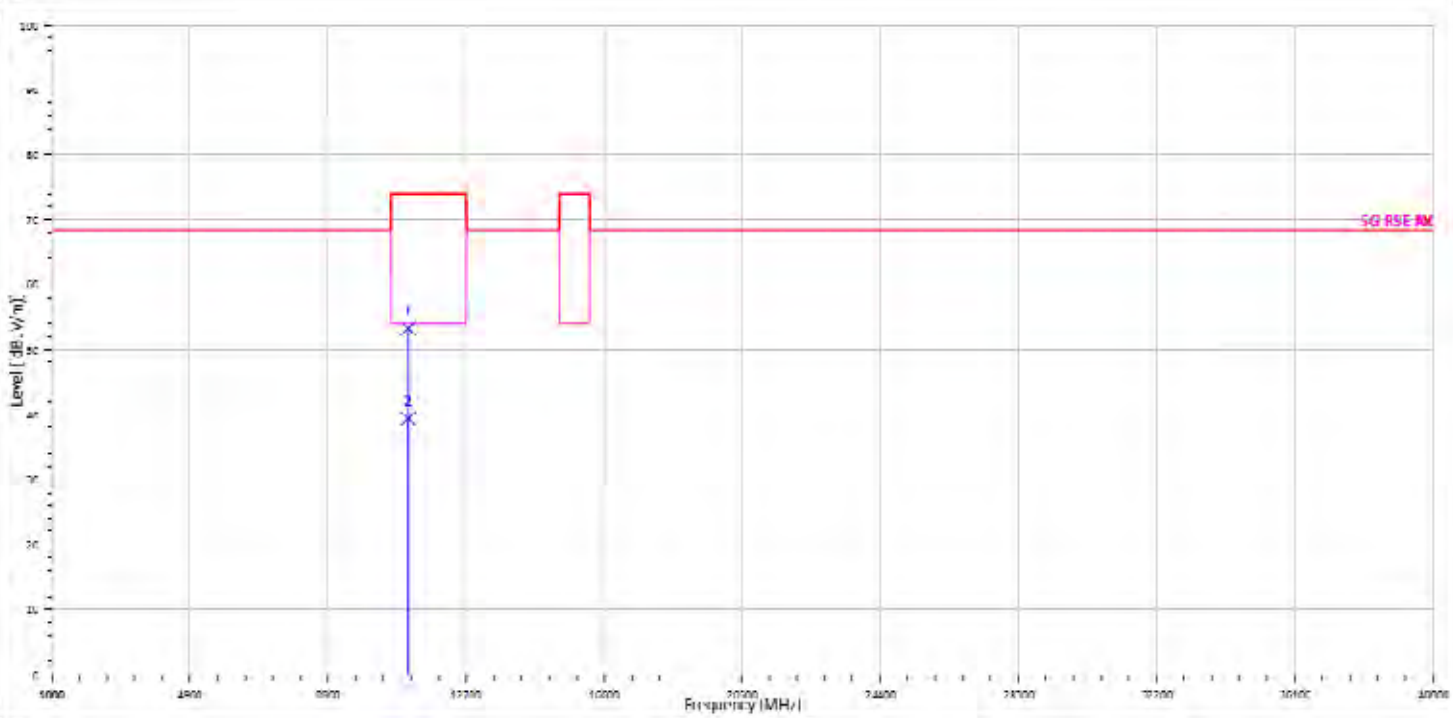
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80B3	Test Date :	2018/2/26
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11060.00	H	Peak	41.89	11.37	53.27	74	-20.73
11060.00	H	Average	27.97	11.37	39.34	54	-14.66

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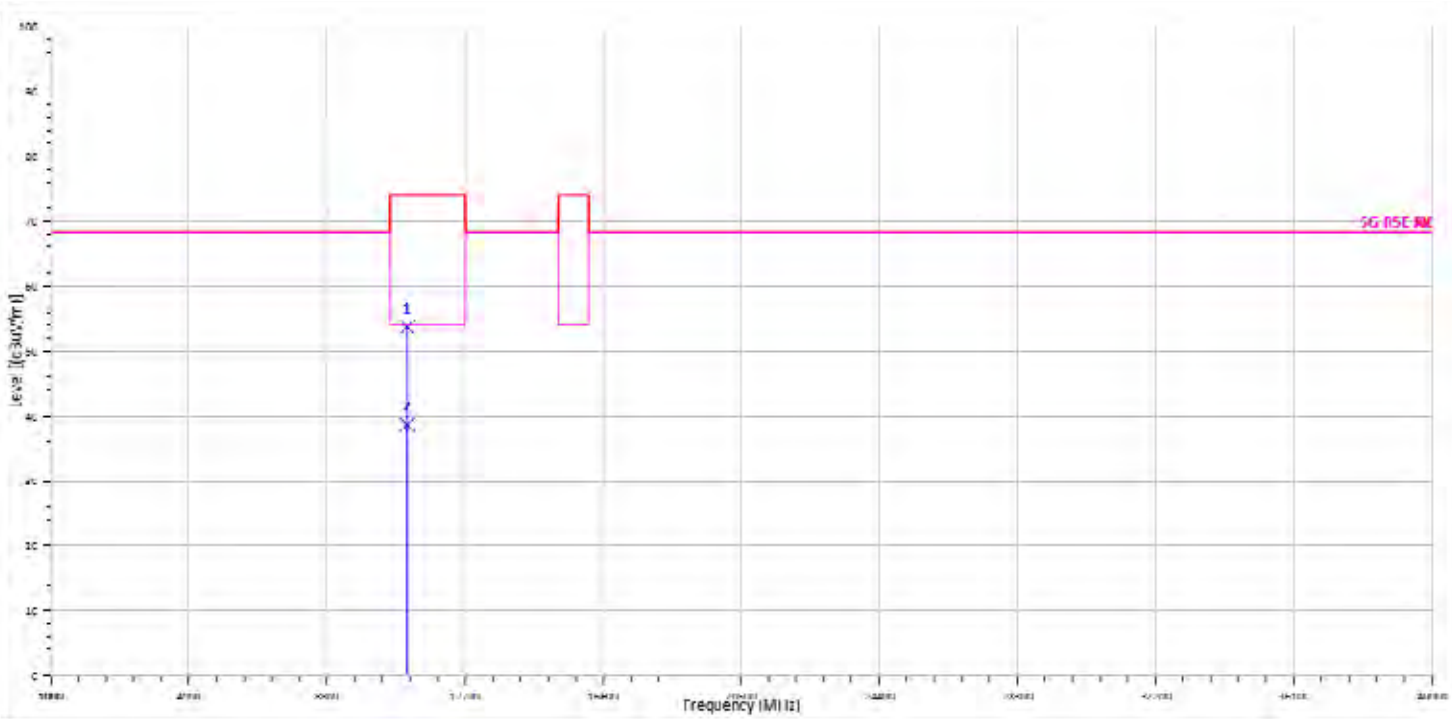
Operation Mode :	802.11ac80B3	Test Date :	2018/2/26
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11060.00	H	Peak	41.33	11.37	53.71	74	-20.29
11060.00	H	Average	27.30	11.37	38.67	54	-15.33

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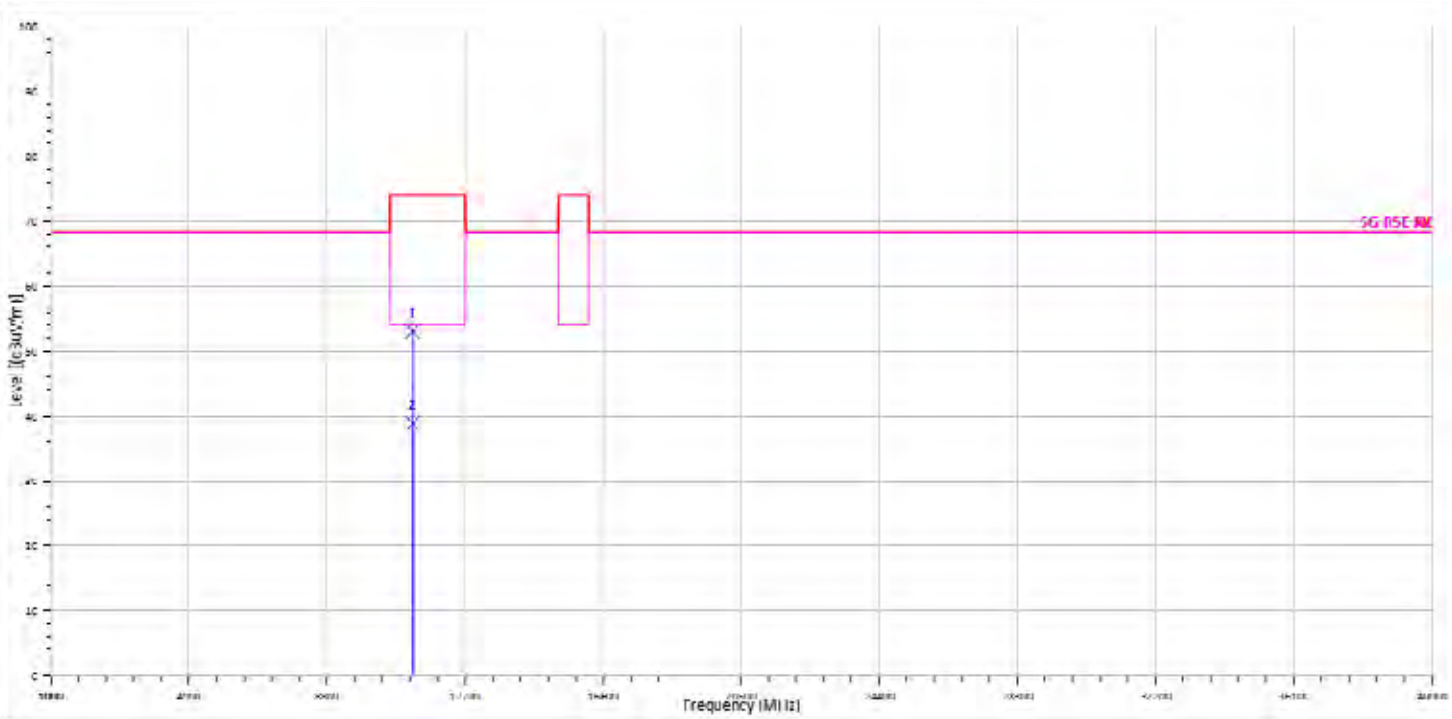
Operation Mode :	802.11ac80B3	Test Date :	2018/2/26
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	H	Peak	41.38	11.64	53.03	74	-20.97
11220.00	H	Average	27.24	11.64	38.88	54	-15.12

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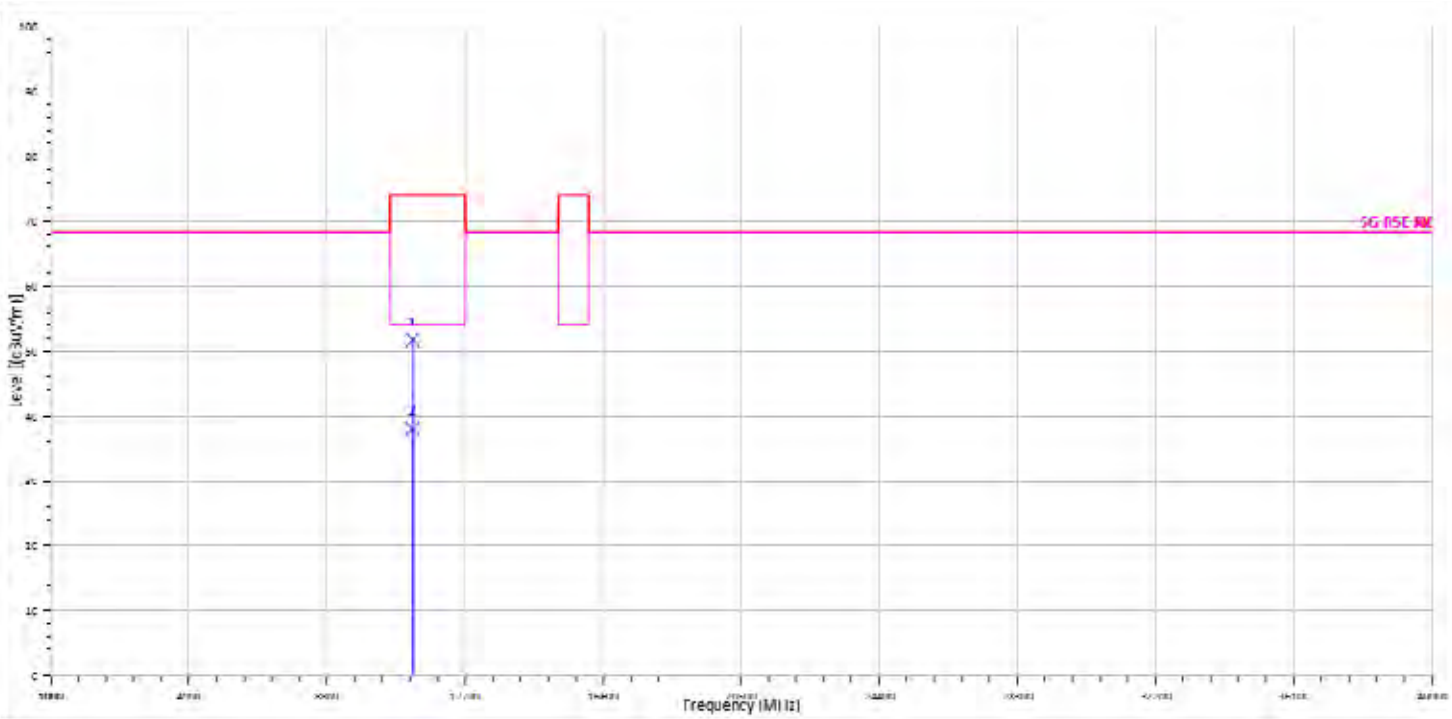
Operation Mode :	802.11ac80B3	Test Date :	2018/2/26
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11220.00	H	Peak	40.12	11.64	51.77	74	-22.23
11220.00	H	Average	26.37	11.64	38.01	54	-15.99

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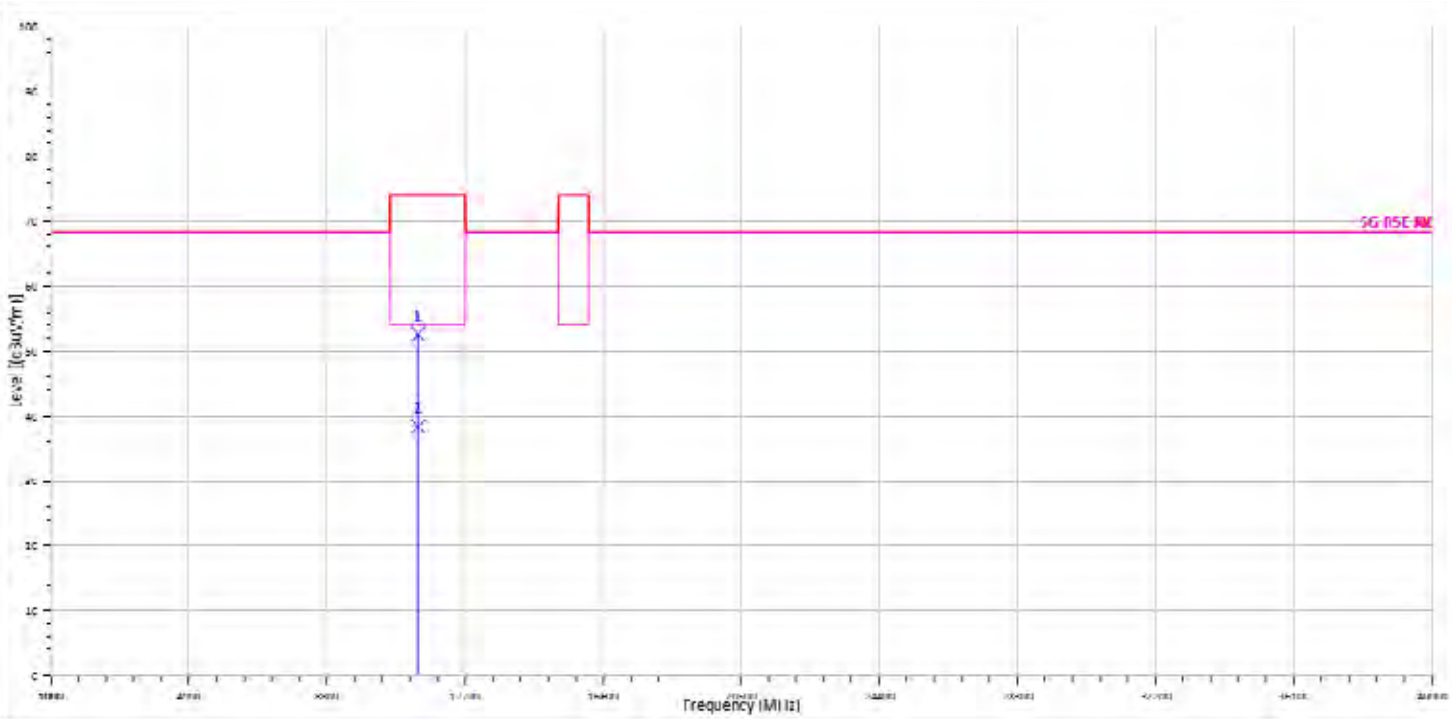
Operation Mode :	802.11ac80B3	Test Date :	2018/2/26
Fundamental Frequency :	5690 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	H	Peak	41.10	11.52	52.62	74	-21.38
11380.00	H	Average	26.84	11.52	38.36	54	-15.64

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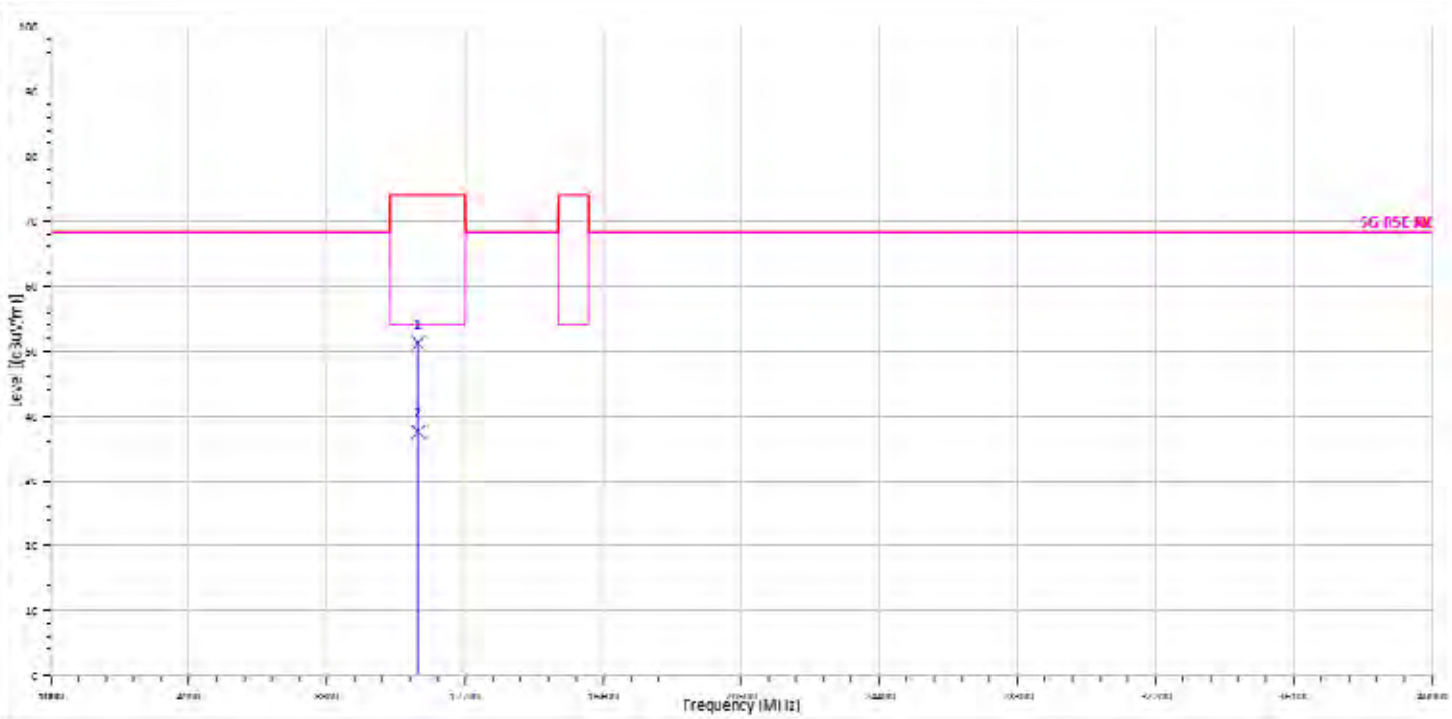
Operation Mode :	802.11ac80B3	Test Date :	2018/2/26
Fundamental Frequency :	5690 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	H	Peak	39.76	11.52	51.28	74	-22.72
11380.00	H	Average	26.03	11.52	37.56	54	-16.44

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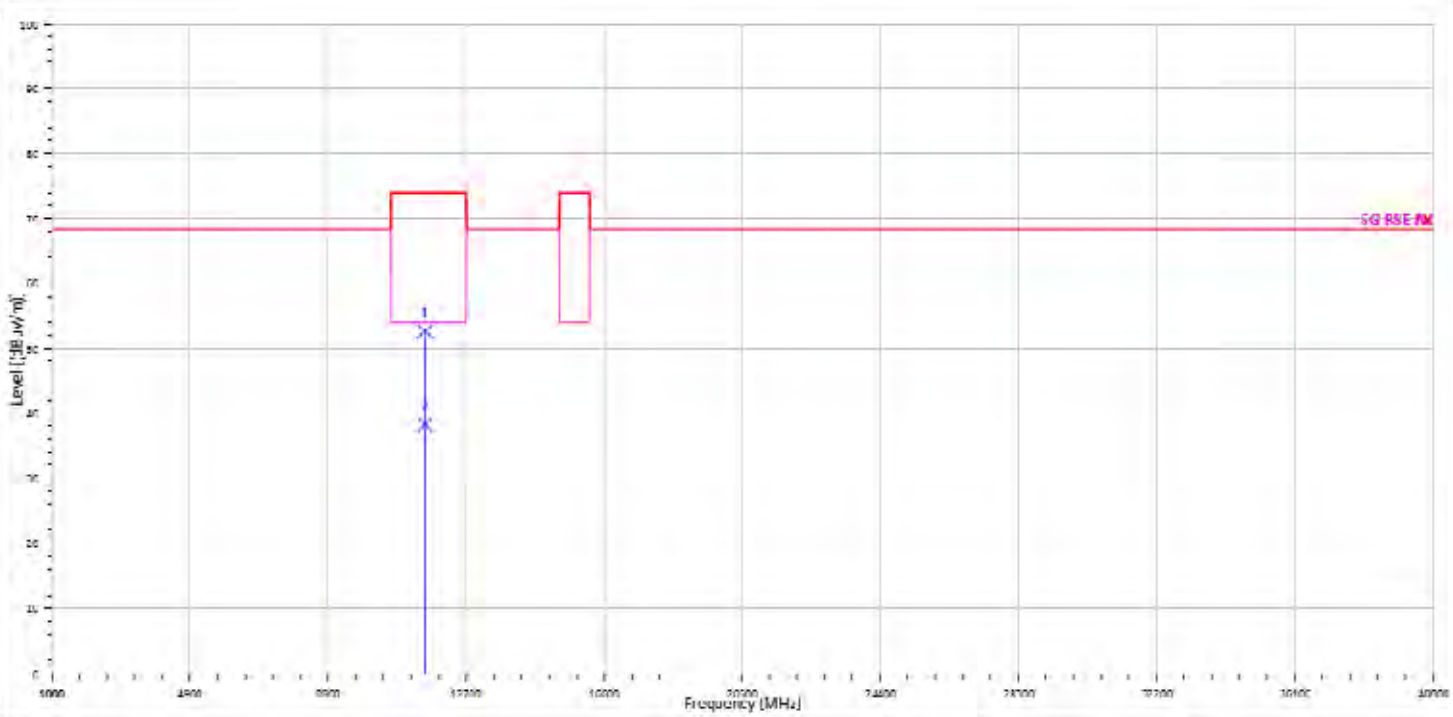
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80B4	Test Date :	2018/2/26
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11550.00	H	Peak	41.53	11.08	52.62	74	-21.39
11550.00	H	Average	27.18	11.08	38.27	54	-15.73

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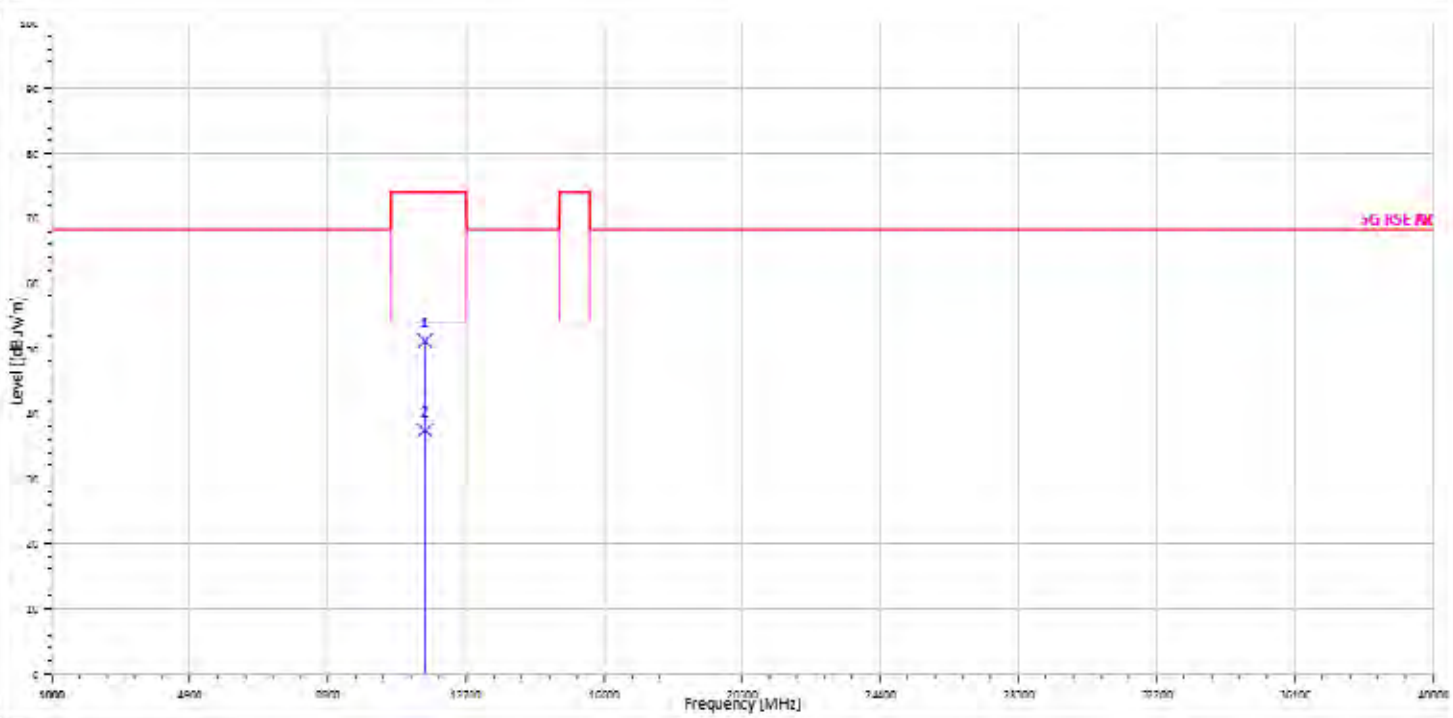
Operation Mode :	802.11ac80B4	Test Date :	2018/2/26
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11550.00	H	Peak	40.12	11.08	51.20	74	-22.80
11550.00	H	Average	26.34	11.08	37.42	54	-16.58

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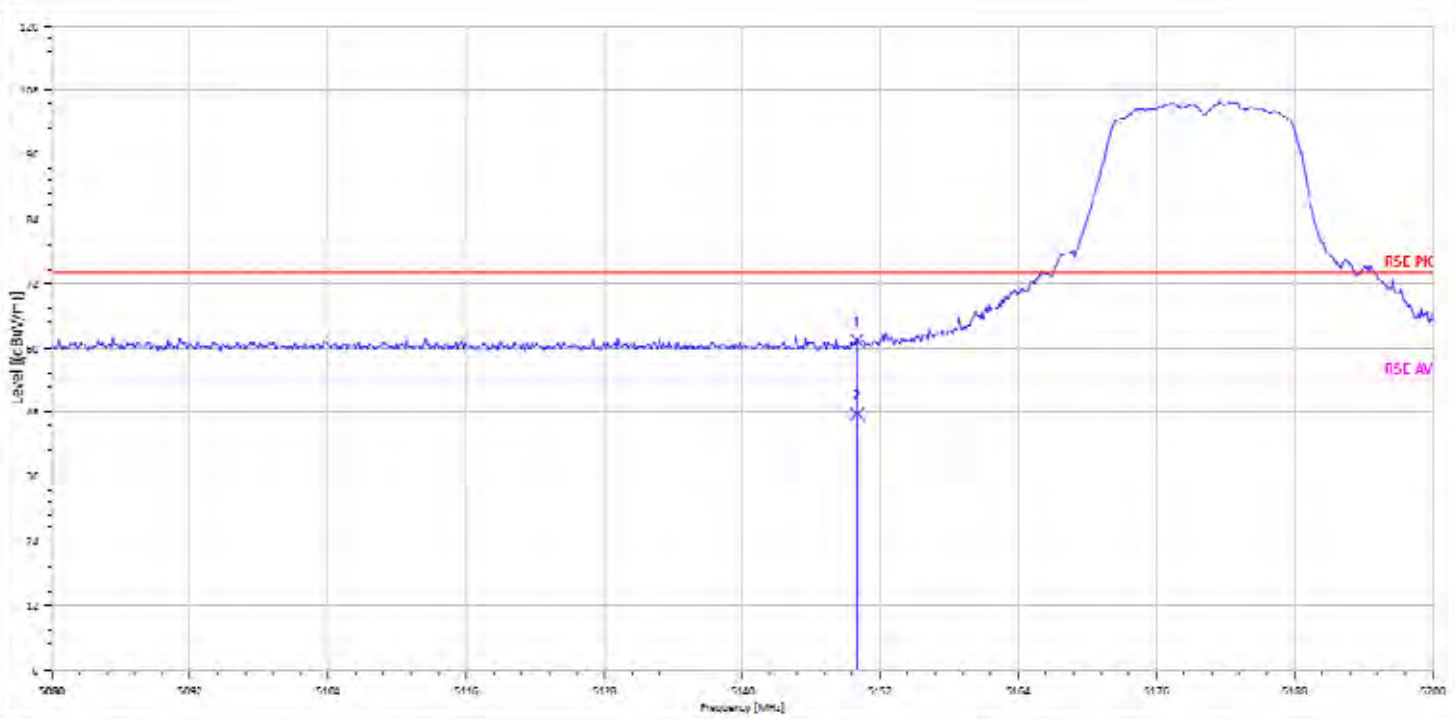
Band edge falling to restricted band

802.11a mode

Operation Mode :	802.11aB1	Test Date :	2018/5/22
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	E	Peak	61.46	-0.17	61.29	74	-12.71
5150.00	E	Average	47.79	-0.17	47.62	54	-6.38

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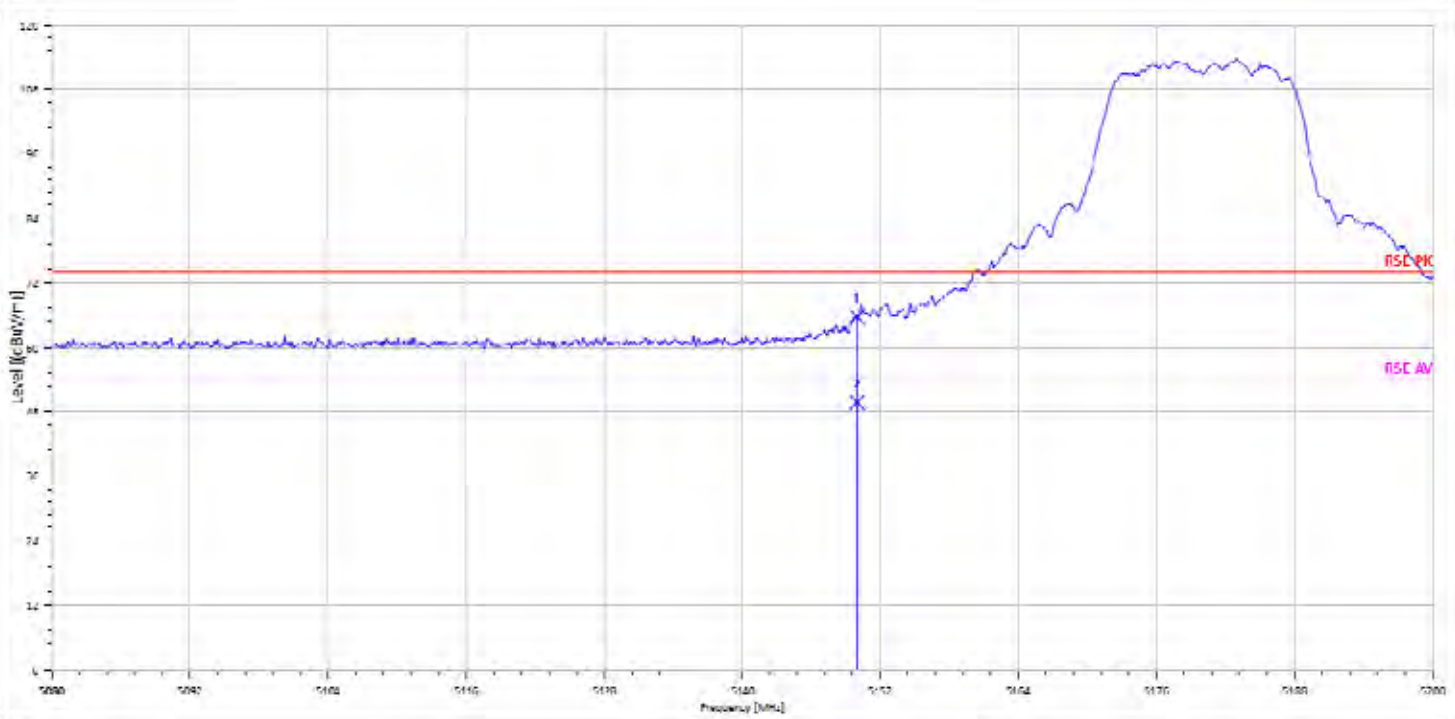
Operation Mode :	802.11aB1	Test Date :	2018/5/22
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	E	Peak	65.77	-0.17	65.60	74	-8.40
5150.00	E	Average	49.89	-0.17	49.72	54	-4.28

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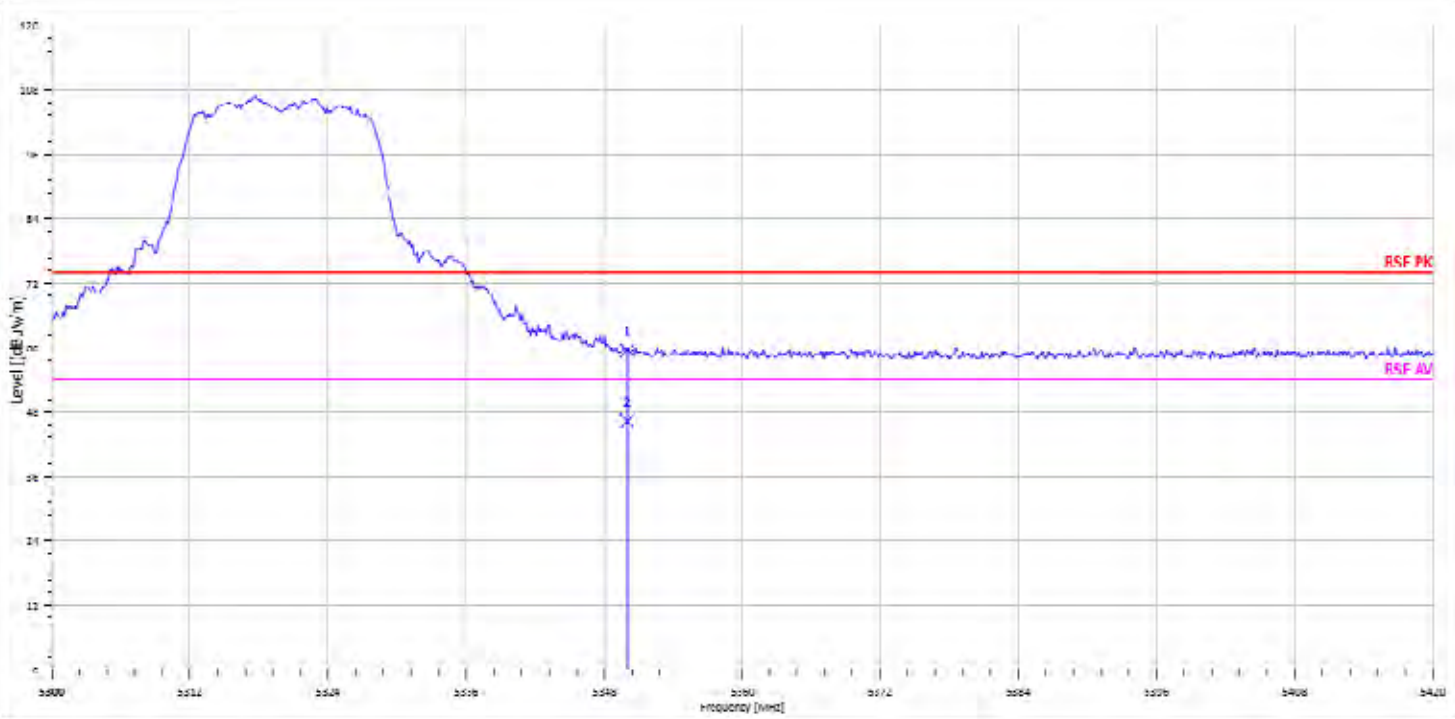
Operation Mode :	802.11aB2	Test Date :	2018/5/22
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	E	Peak	59.66	-0.15	59.51	74	-14.49
5350.00	E	Average	46.52	-0.15	46.36	54	-7.64

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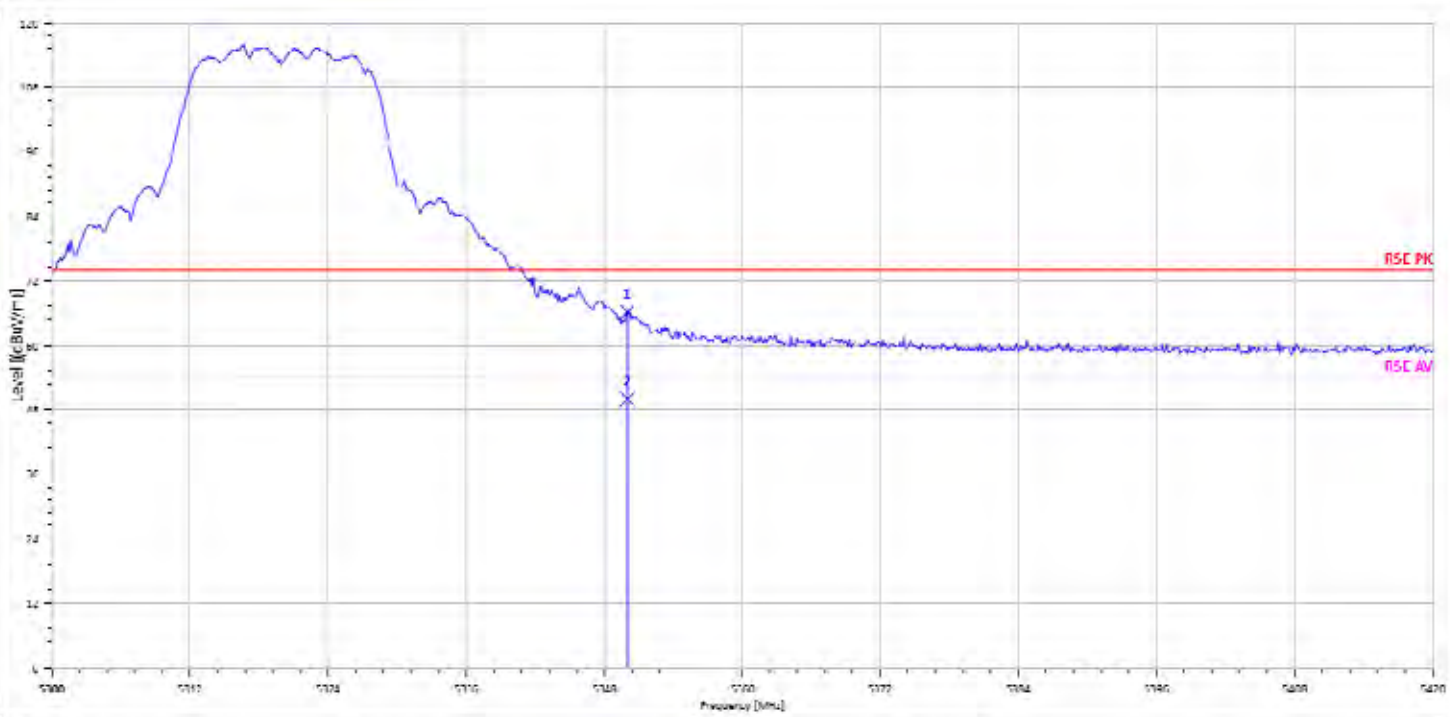
Operation Mode :	802.11aB2	Test Date :	2018/5/22
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	66.27	-0.15	66.11	74	-7.89
5350.00	E	Average	50.11	-0.15	49.95	54	-4.05

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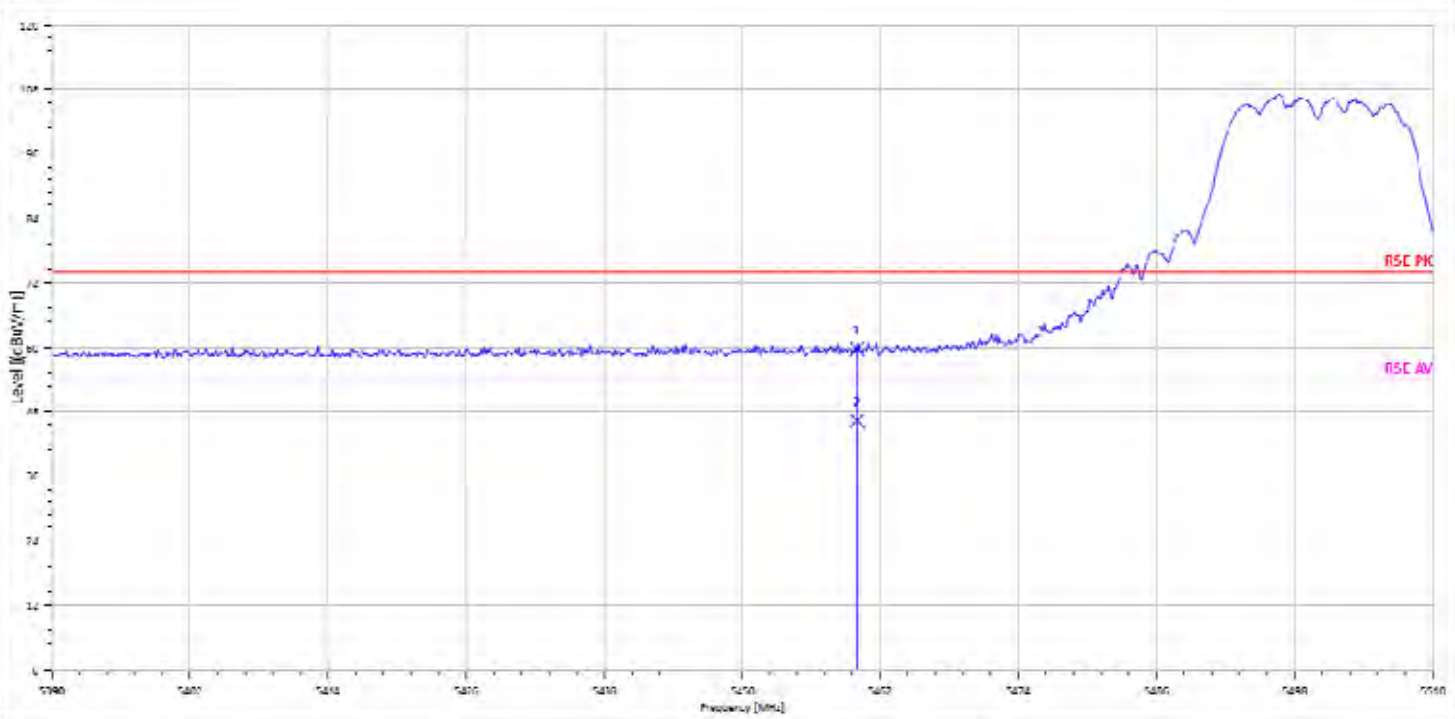
Operation Mode :	802.11aB3	Test Date :	2018/5/22
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Peak	59.60	0.06	59.66	74	-14.34
5460.00	E	Average	46.21	0.06	46.27	54	-7.73

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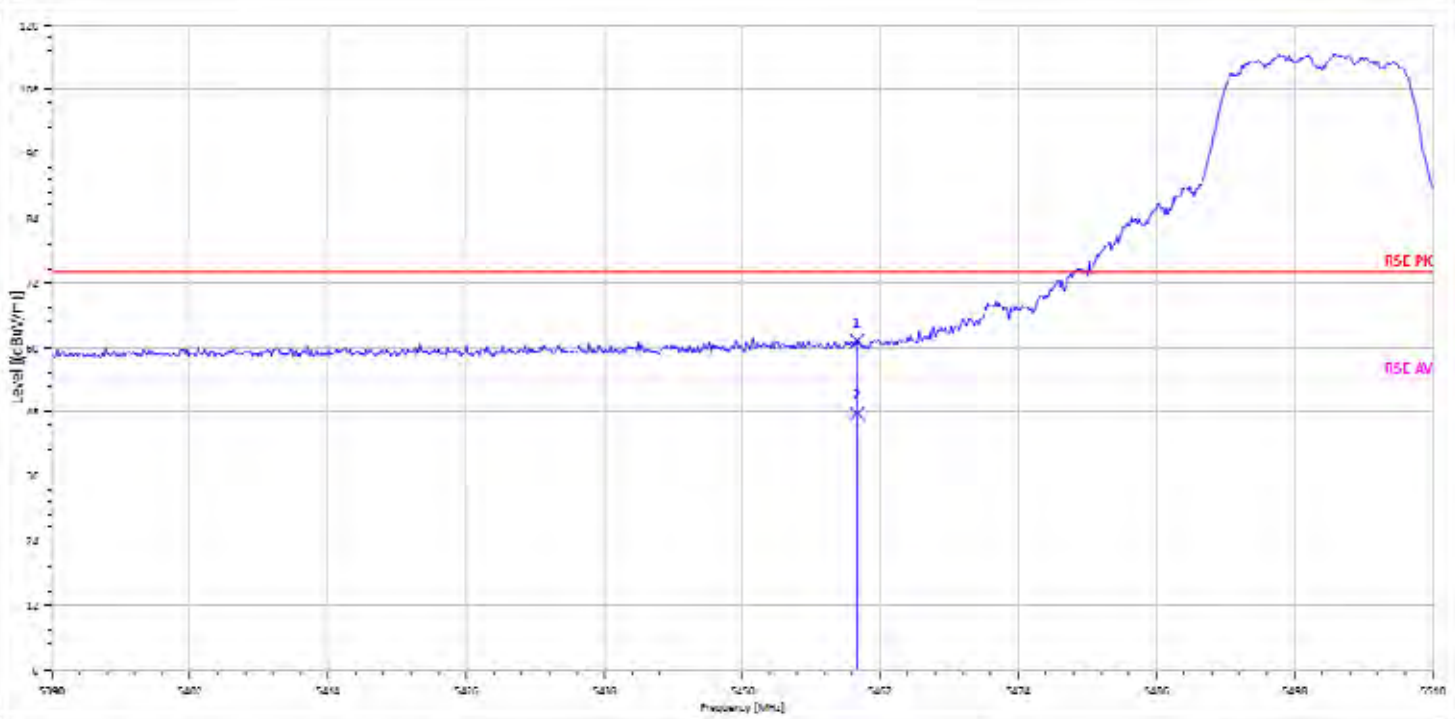
Operation Mode :	802.11aB3	Test Date :	2018/5/22
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Peak	61.04	0.06	61.09	74	-12.91
5460.00	E	Average	47.56	0.06	47.62	54	-6.38

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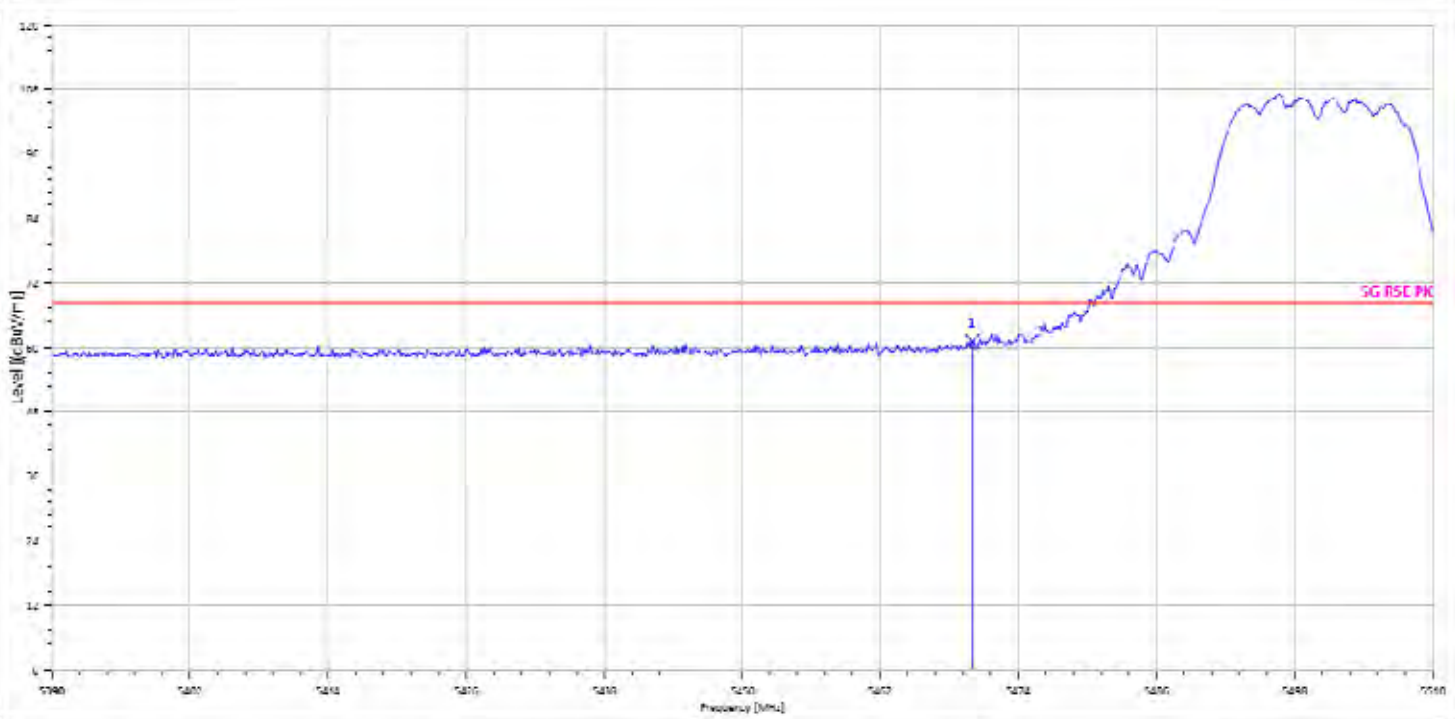
Operation Mode :	802.11aB3	Test Date :	2018/5/22
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	60.95	0.08	61.03	68.3	-7.27

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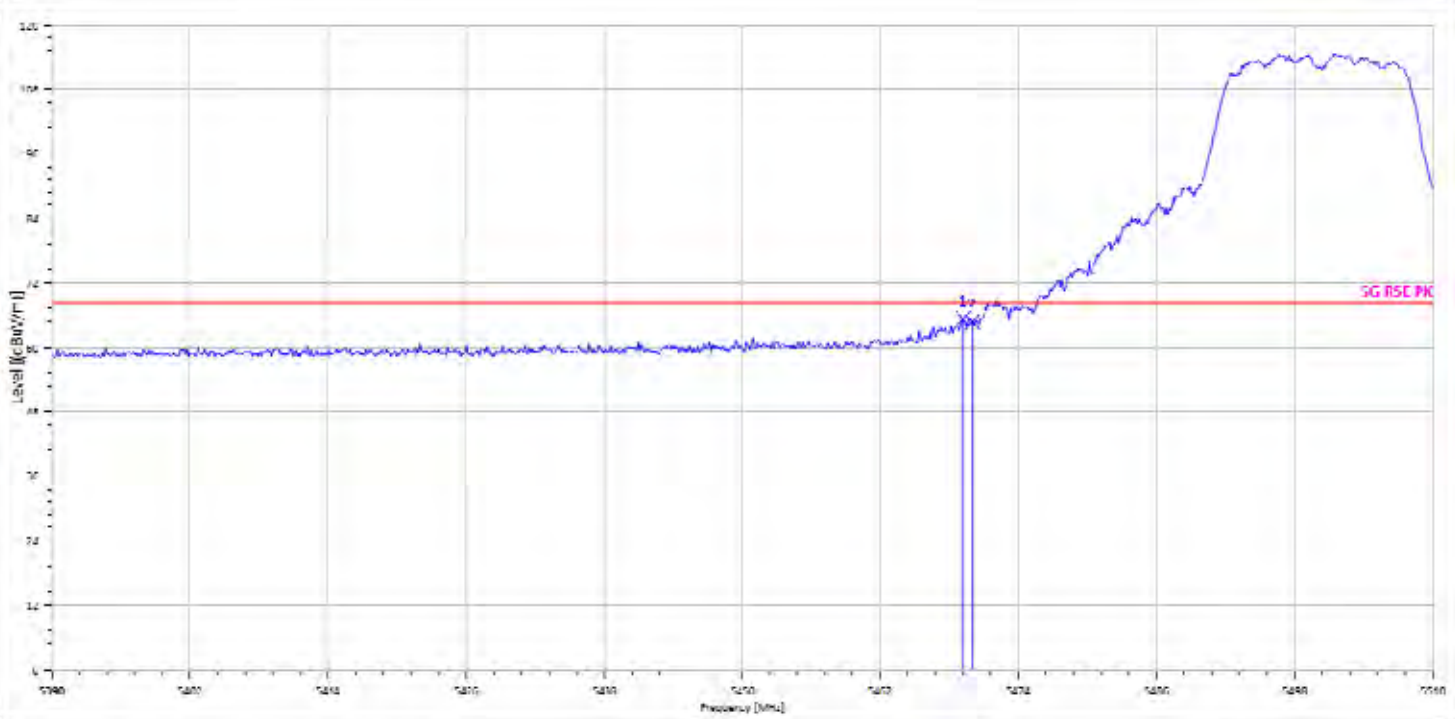
Operation Mode :	802.11aB3	Test Date :	2018/5/22
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5469.20	S	Peak	65.16	0.08	65.24	68.3	-3.06
5470.00	S	Peak	64.65	0.08	64.73	68.3	-3.57

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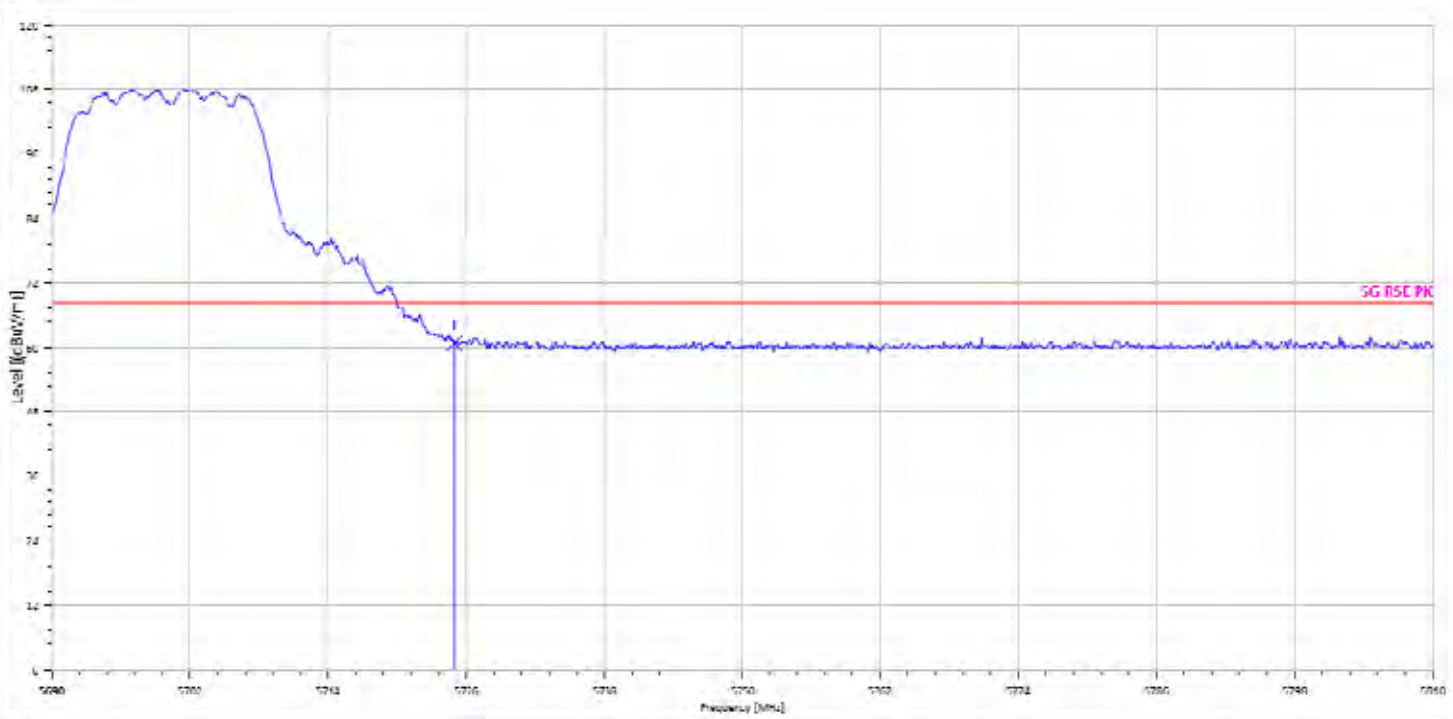
Operation Mode :	802.11aB3	Test Date :	2018/5/22
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	60.01	0.69	60.69	68.3	-7.61

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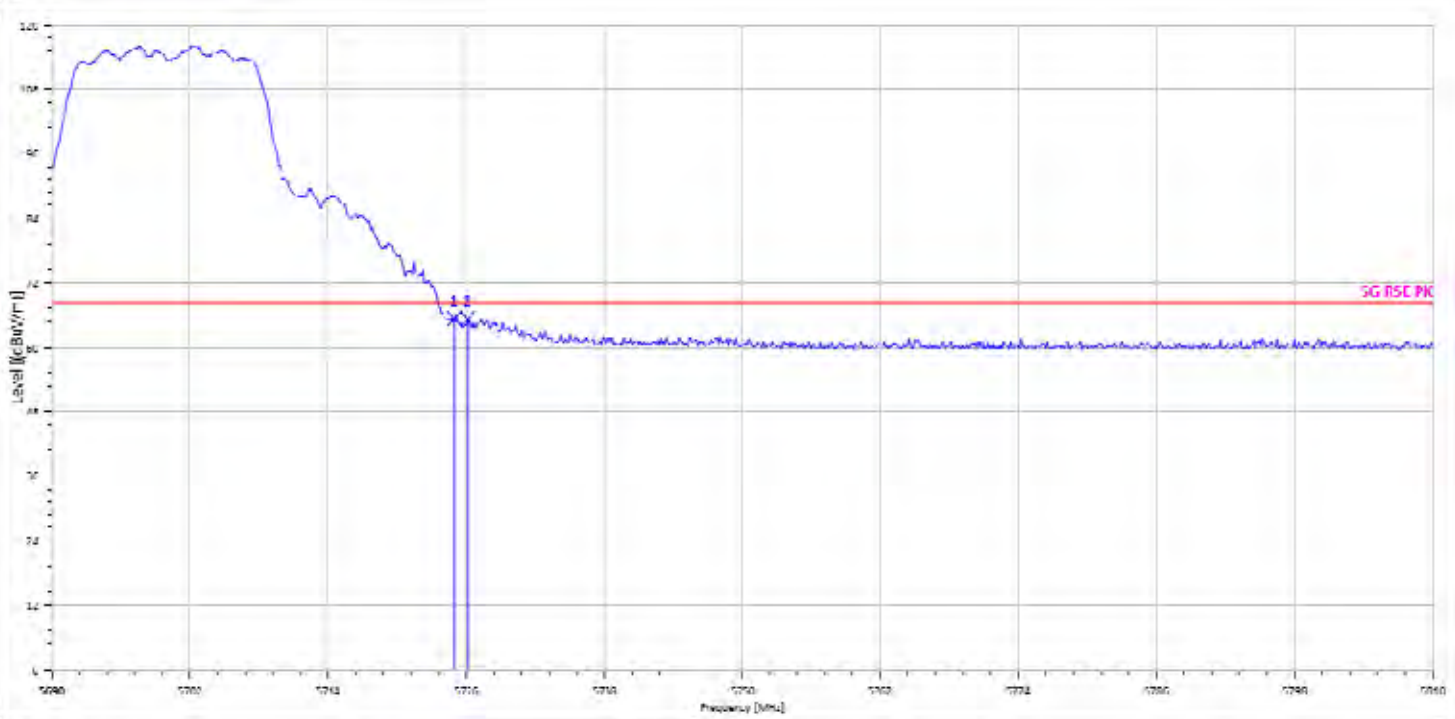
Operation Mode :	802.11aB3	Test Date :	2018/5/22
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	64.61	0.69	65.29	68.3	-3.01
5726.12	S	Peak	64.51	0.69	65.20	68.3	-3.10

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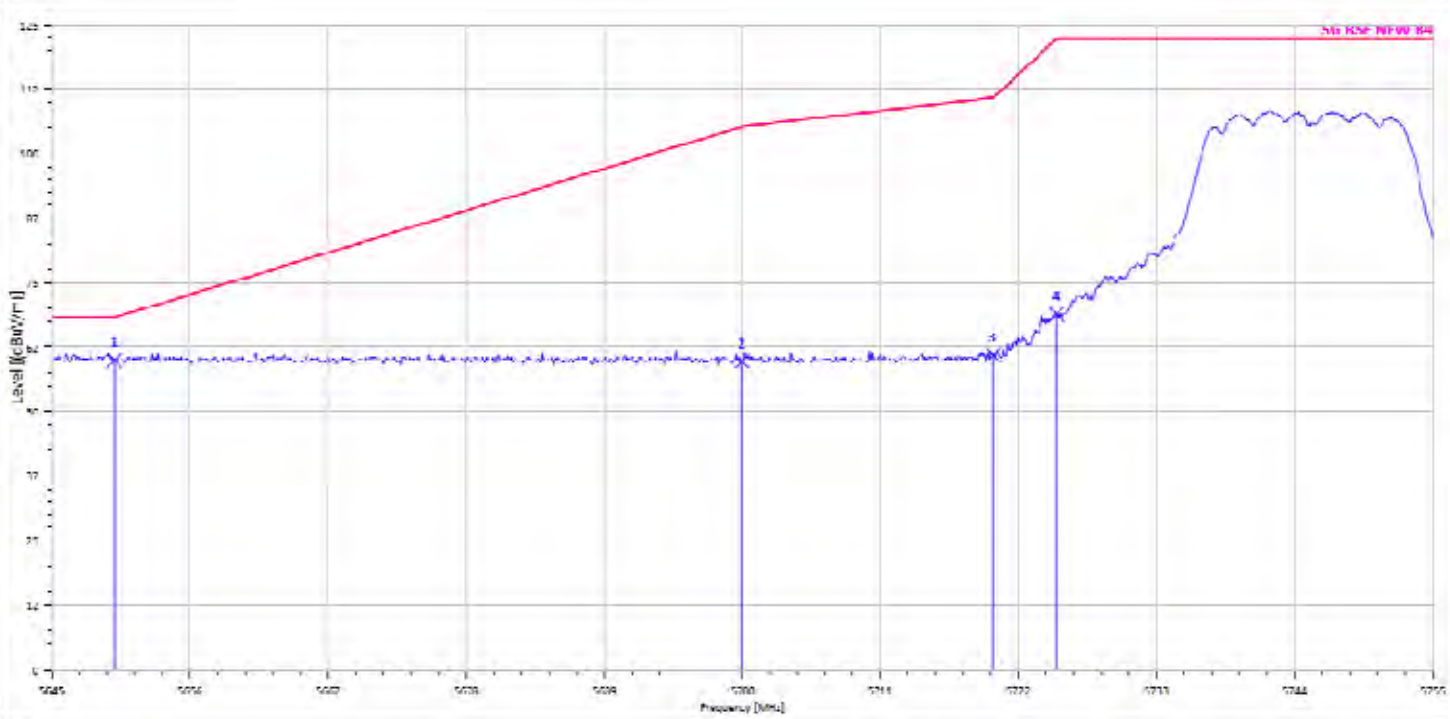
Operation Mode :	802.11aB4	Test Date :	2018/5/22
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	59.36	0.63	59.98	68.23	-8.25
5700.00	S	Peak	59.21	0.56	59.77	105.23	-45.46
5720.00	S	Peak	60.27	0.66	60.93	110.83	-49.90
5725.00	E	Peak	68.22	0.69	68.91	122.23	-53.32

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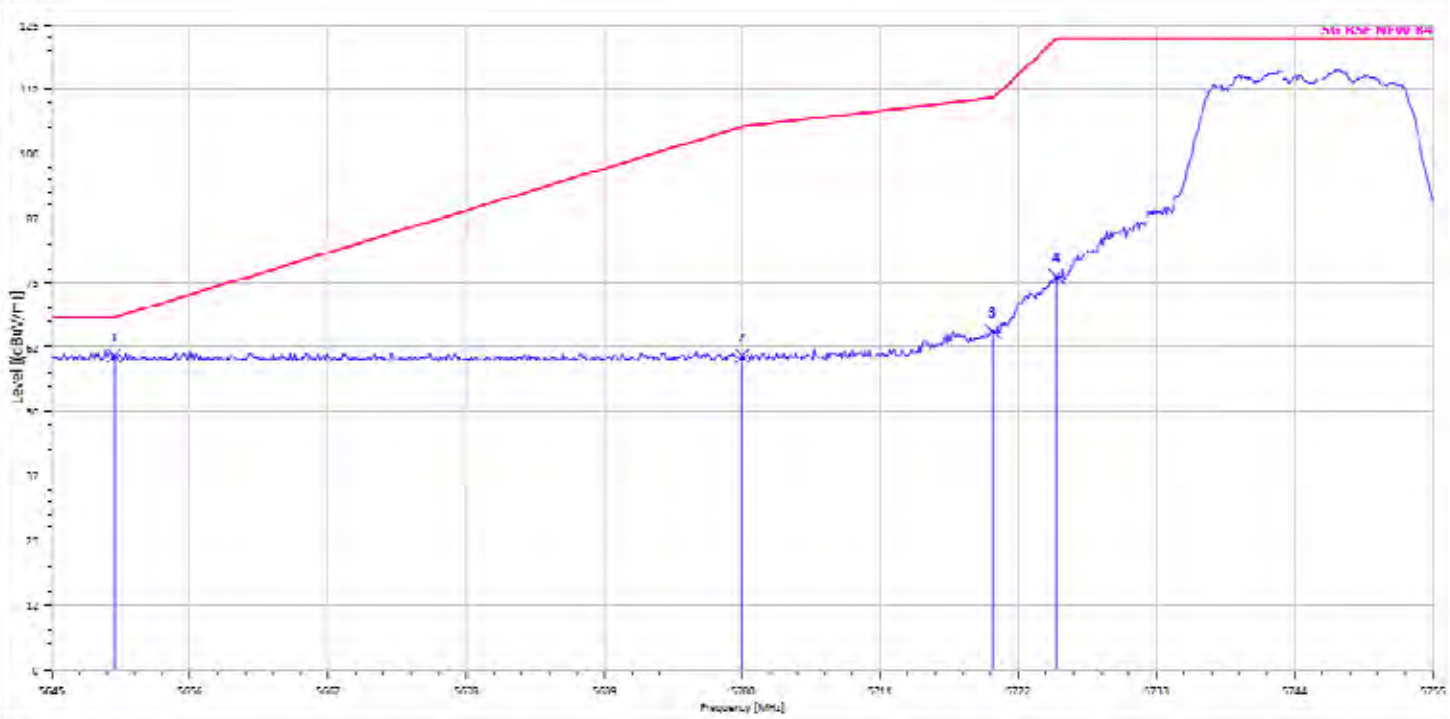
Operation Mode :	802.11aB4	Test Date :	2018/5/22
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	60.22	0.63	60.85	68.23	-7.38
5700.00	S	Peak	60.23	0.56	60.79	105.23	-44.44
5720.00	S	Peak	64.84	0.66	65.50	110.83	-45.33
5725.00	E	Peak	75.52	0.69	76.21	122.23	-46.02

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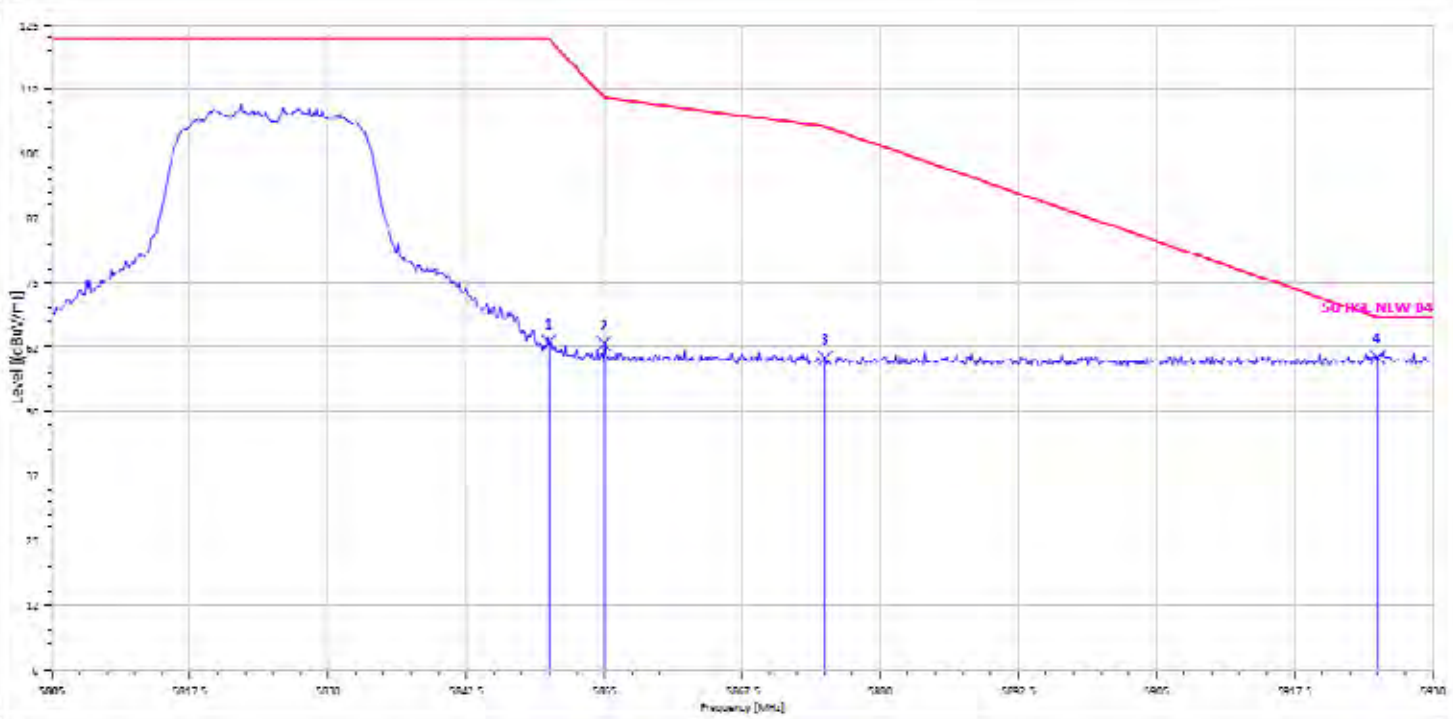
Operation Mode :	802.11aB4	Test Date :	2018/5/22
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	62.33	1.01	63.34	122.23	-58.89
5855.00	S	Peak	62.12	1.01	63.13	110.83	-47.70
5875.00	S	Peak	59.39	0.99	60.37	105.23	-44.86
5925.00	S	Peak	59.45	1.04	60.49	68.23	-7.74

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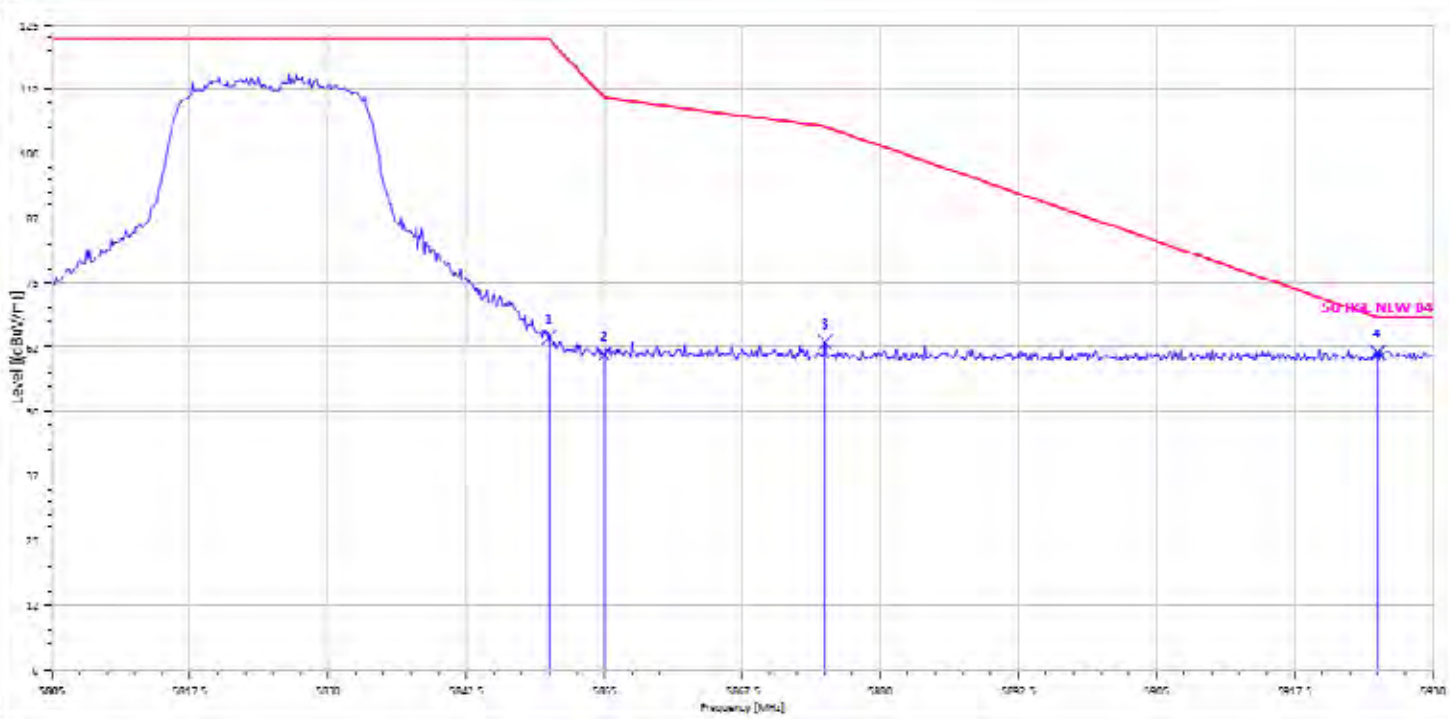
Operation Mode :	802.11aB4	Test Date :	2018/5/22
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	63.33	1.01	64.34	122.23	-57.89
5855.00	S	Peak	60.12	1.01	61.13	110.83	-49.70
5875.00	S	Peak	62.39	0.99	63.37	105.23	-41.86
5925.00	S	Peak	60.45	1.04	61.49	68.23	-6.74

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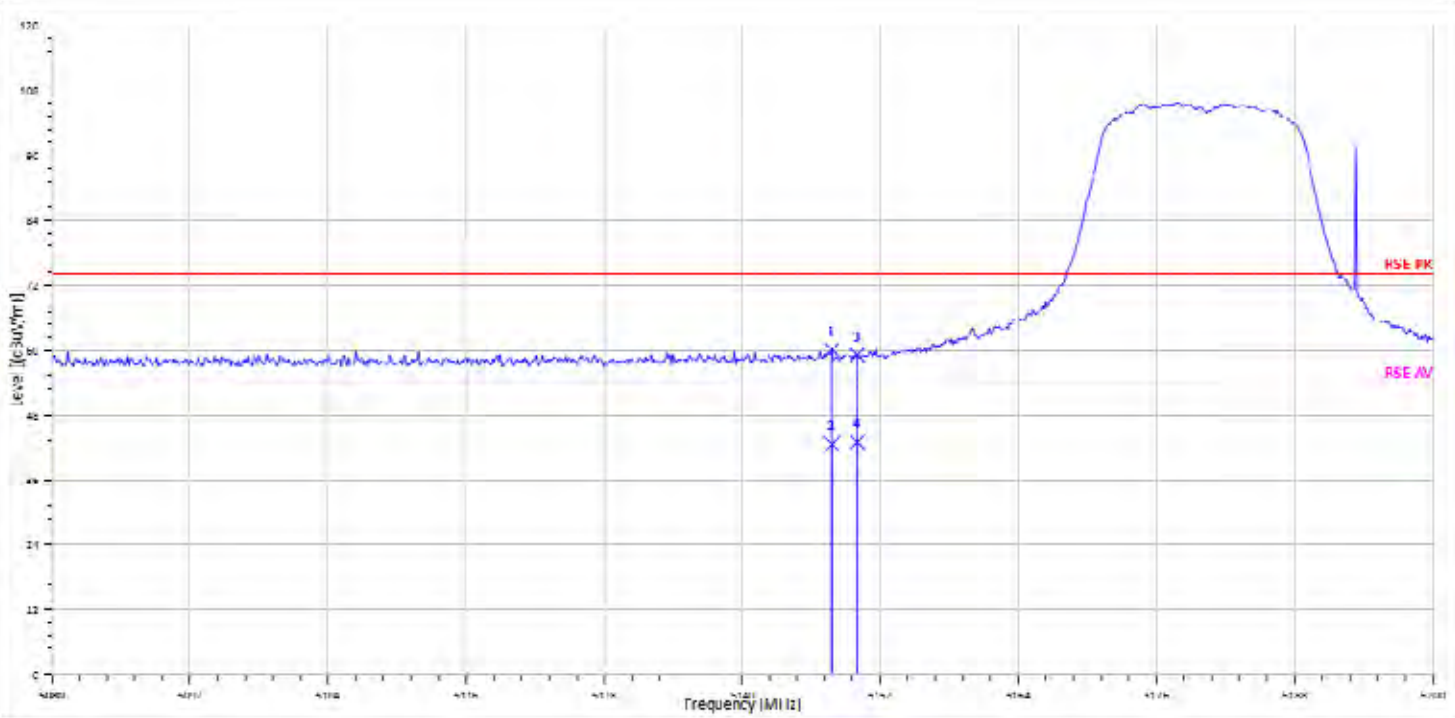
802.11n20 HT mode

Operation Mode :	802.11n20B1	Test Date :	2018/2/13
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.80	S	Peak	60.25	-0.17	60.08	74	-13.92
5147.80	S	Average	42.75	-0.17	42.58	54	-11.42
5150.00	E	Peak	59.19	-0.17	59.02	74	-14.98
5150.00	E	Average	43.14	-0.17	42.97	54	-11.03

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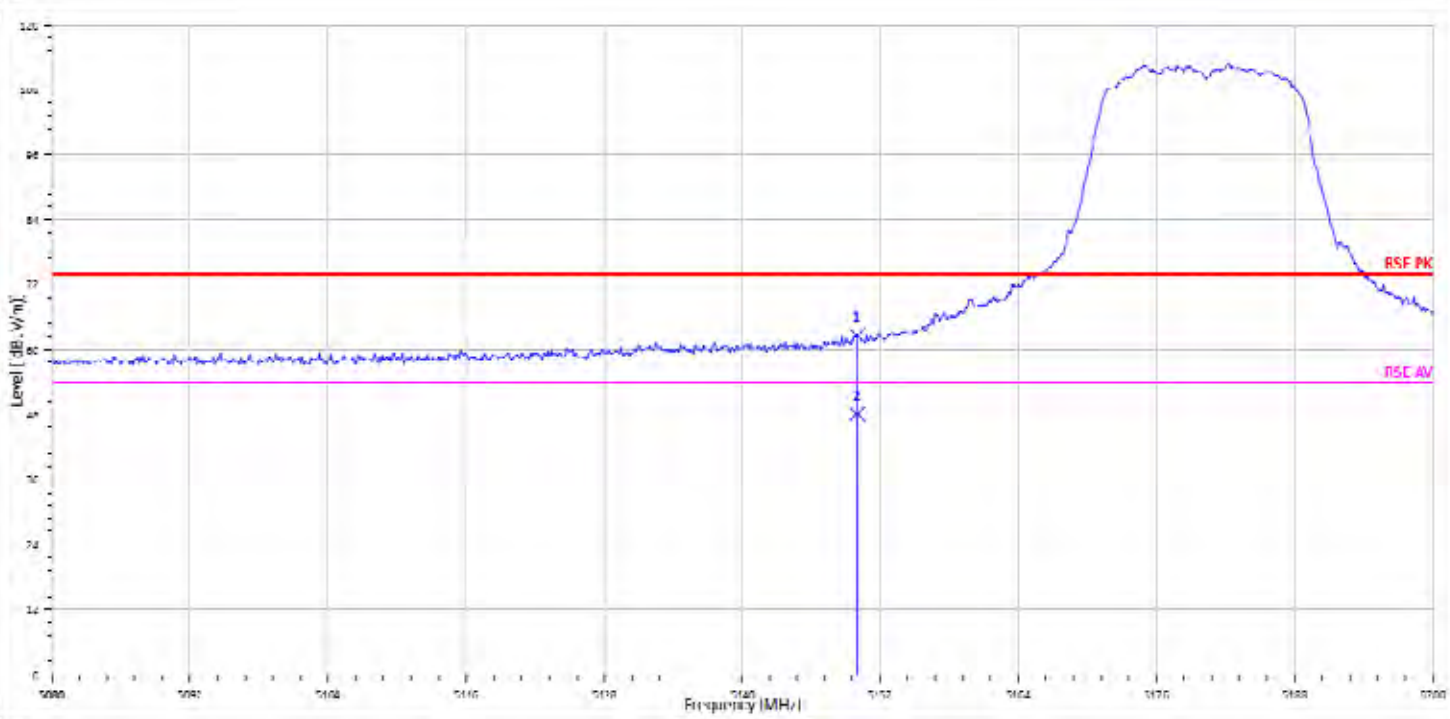
Operation Mode :	802.11n20B1	Test Date :	2018/2/13
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5150.00	E	Peak	62.78	-0.17	62.61	74	-11.39
5150.00	E	Average	48.25	-0.17	48.08	54	-5.92

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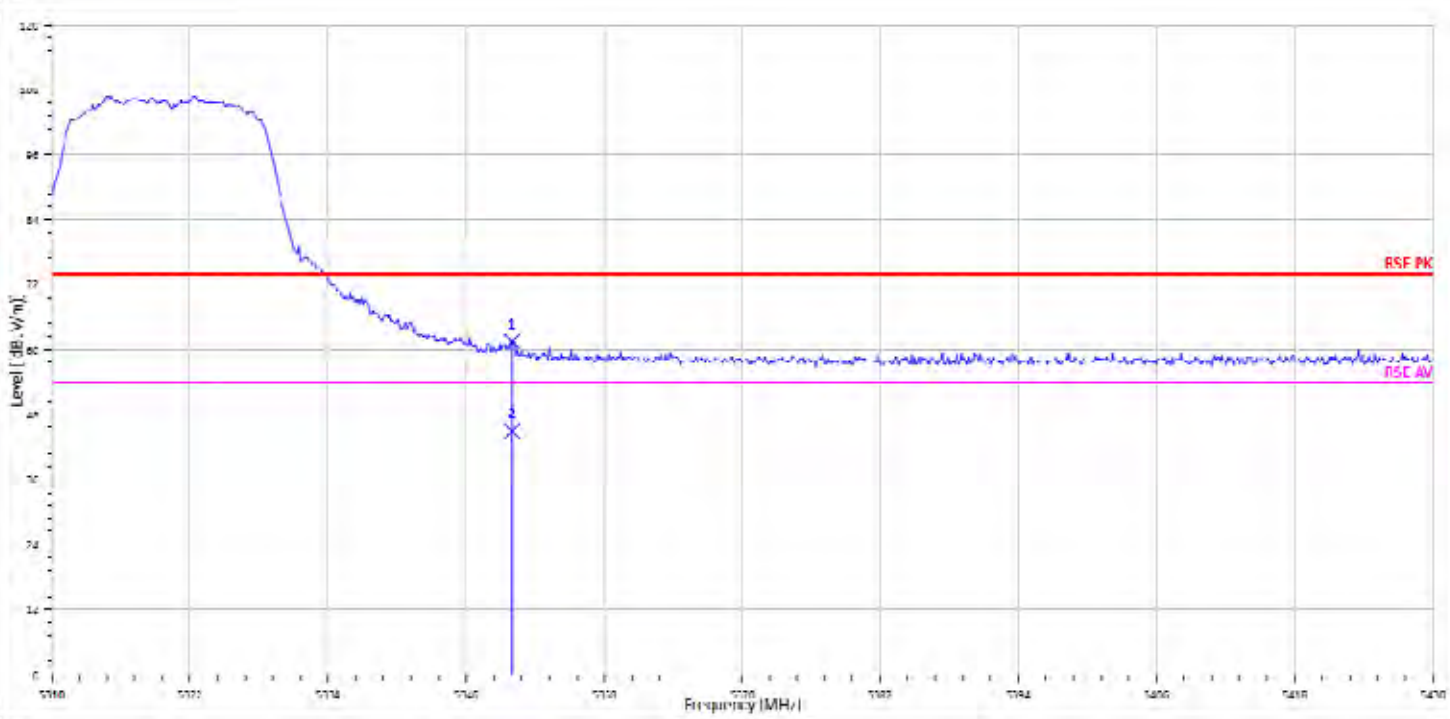
Operation Mode :	802.11n20B2	Test Date :	2018/2/13
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	E	Peak	61.59	-0.15	61.44	74	-12.56
5350.00	E	Average	45.07	-0.15	44.92	54	-9.08

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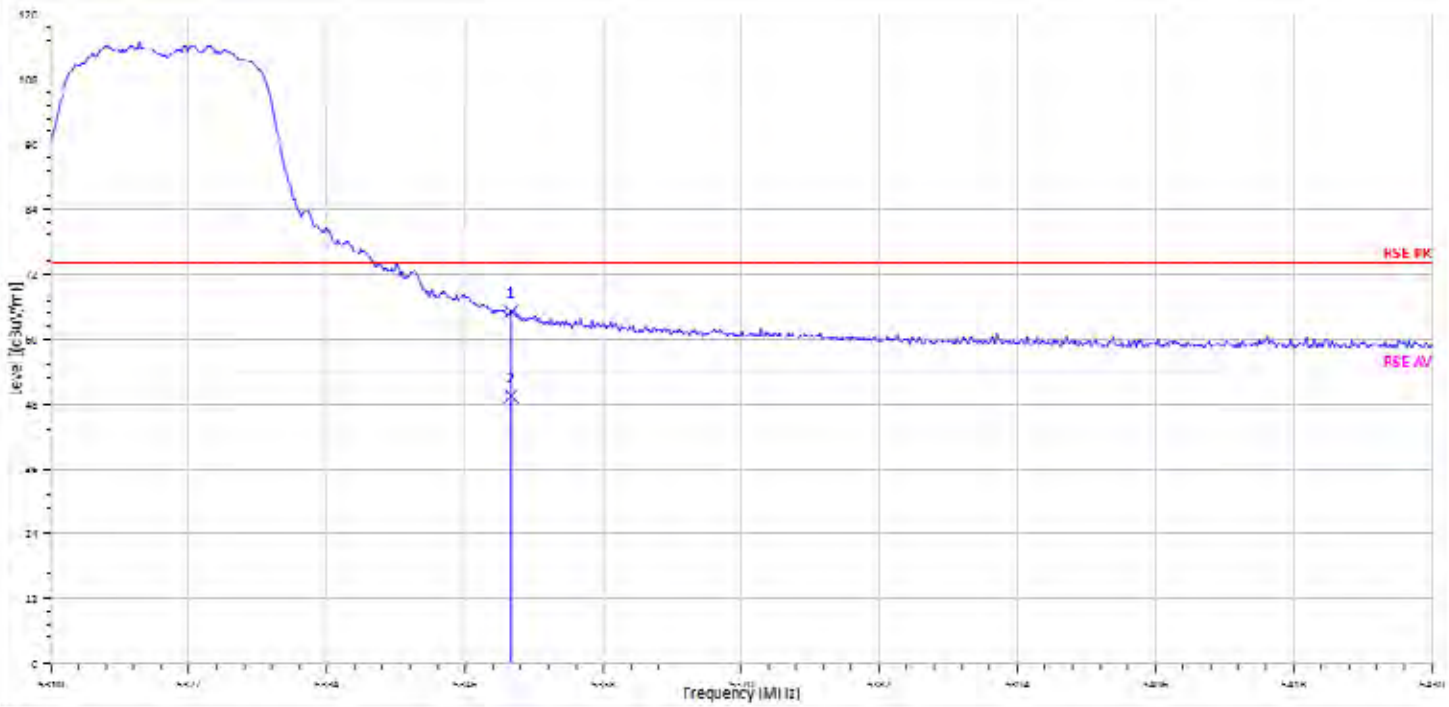
Operation Mode :	802.11n20B2	Test Date :	2018/2/13
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	65.24	-0.15	65.09	74	-8.91
5350.00	E	Average	49.58	-0.15	49.43	54	-4.57

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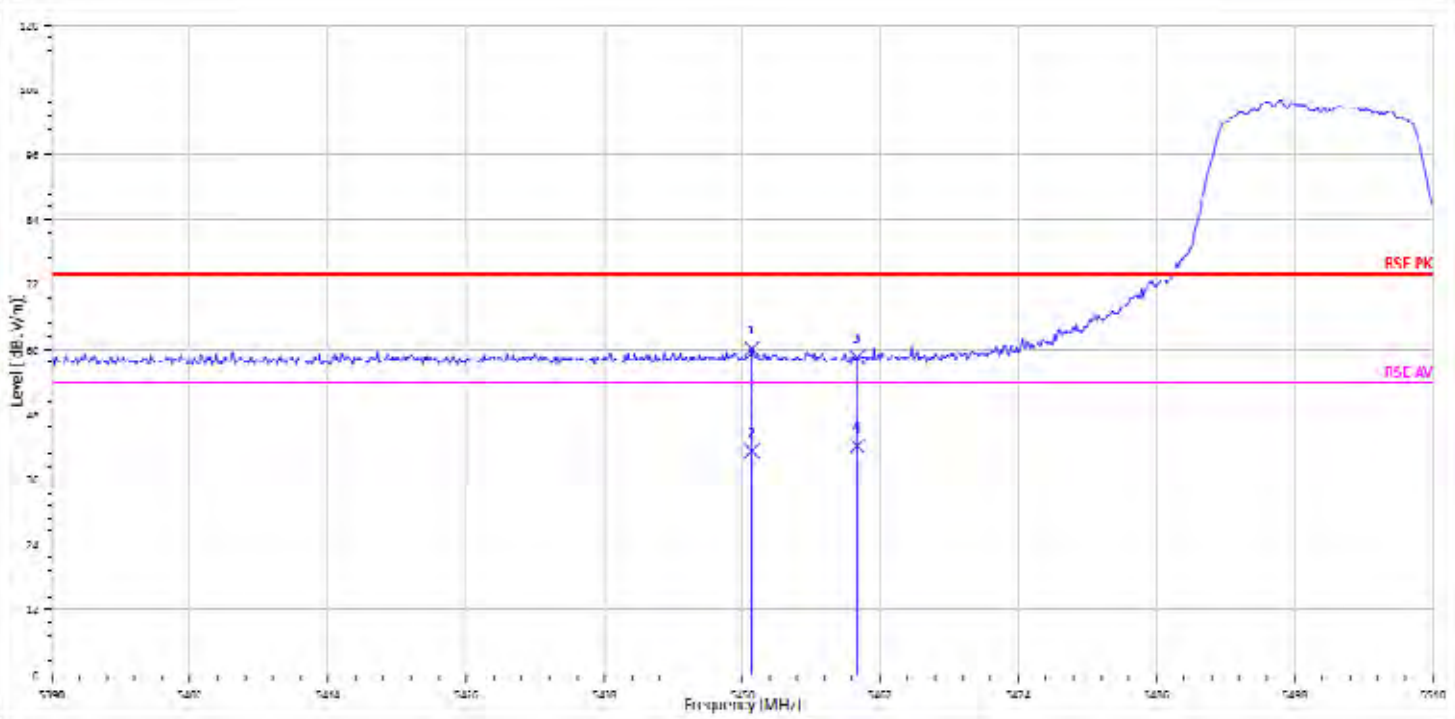
Operation Mode :	802.11n20B3	Test Date :	2018/2/13
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5450.84	S	Peak	60.11	0.04	60.15	74	-13.85
5450.84	S	Average	41.22	0.04	41.26	54	-12.74
5460.00	E	Peak	58.54	0.06	58.60	74	-15.40
5460.00	E	Average	42.09	0.06	42.15	54	-11.85

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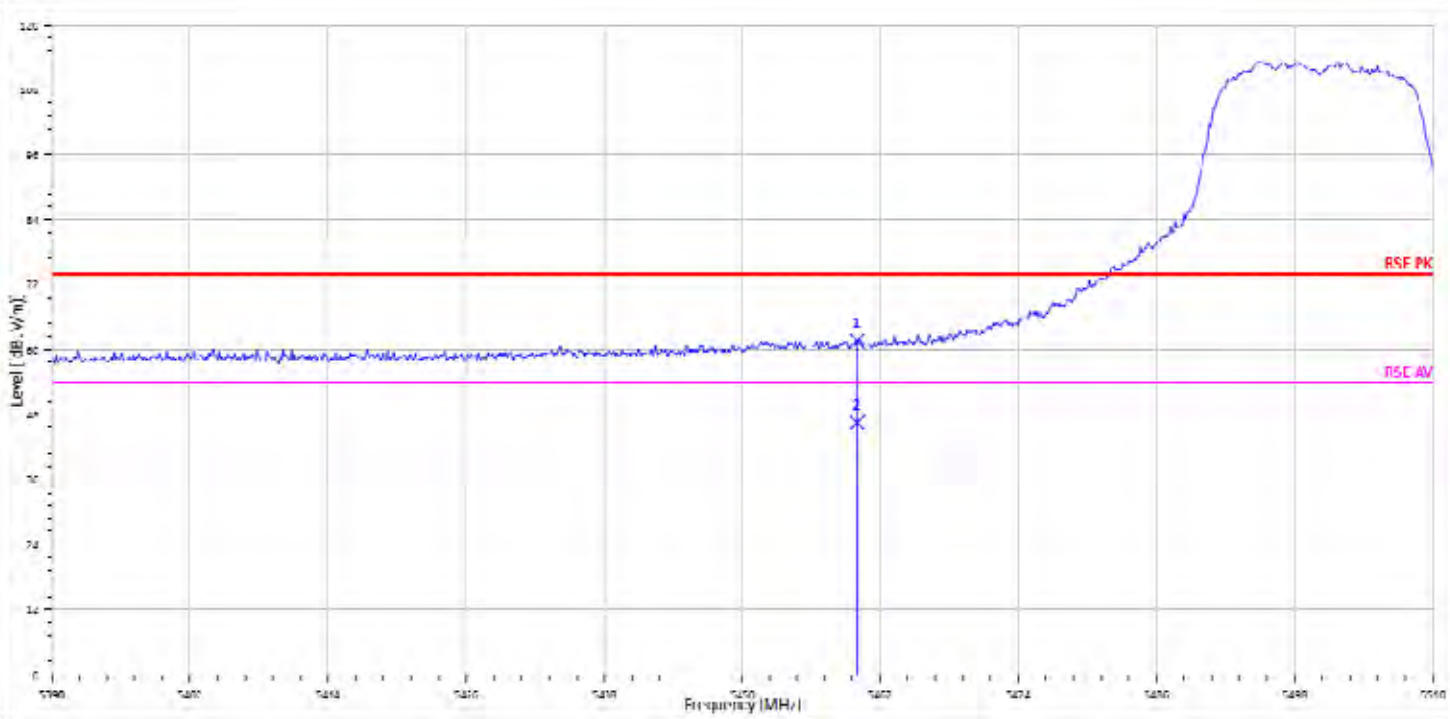
Operation Mode :	802.11n20B3	Test Date :	2018/2/13
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	E	Peak	61.50	0.06	61.56	74	-12.44
5460.00	E	Average	46.41	0.06	46.47	54	-7.53

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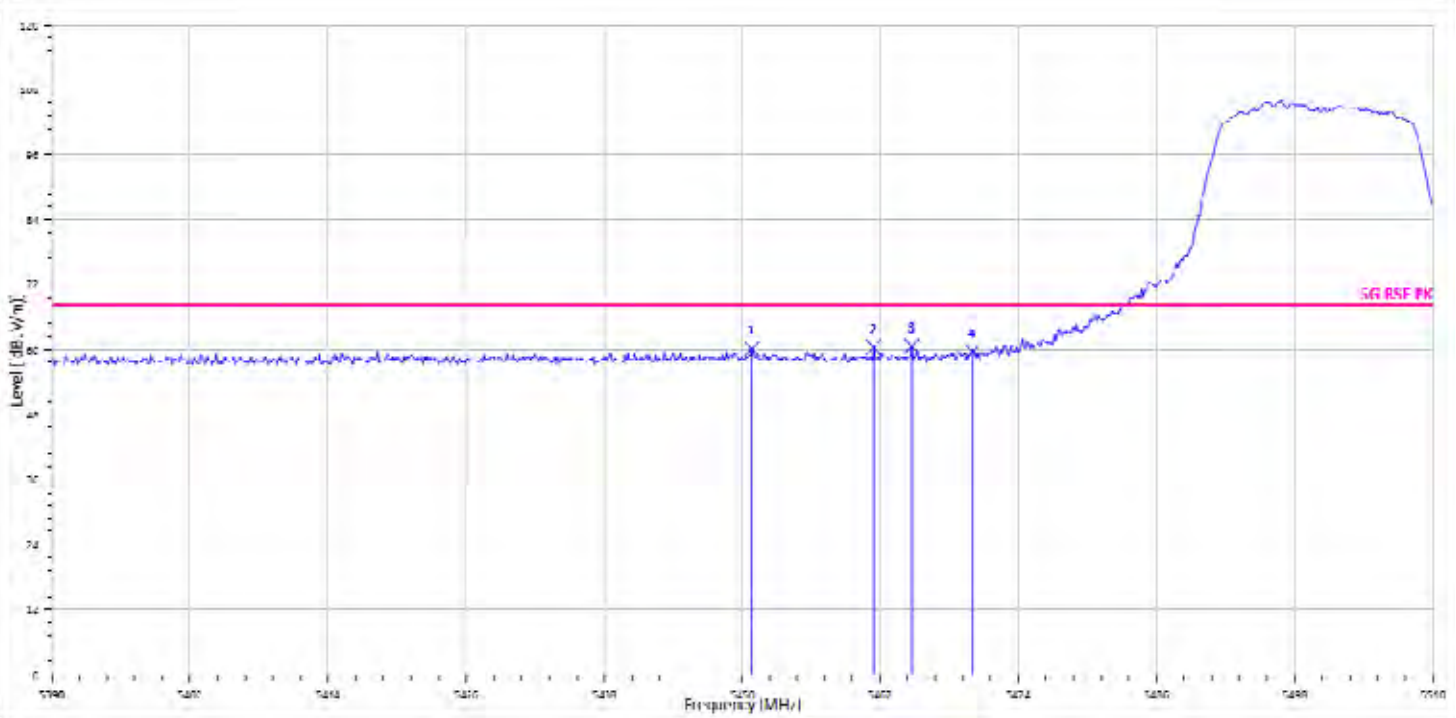
Operation Mode :	802.11n20B3	Test Date :	2018/2/13
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5450.84	S	Peak	60.11	0.04	60.15	68.3	-8.15
5461.40	S	Peak	60.36	0.06	60.42	68.3	-7.88
5464.76	S	Peak	60.53	0.07	60.60	68.3	-7.70
5470.00	E	Peak	59.57	0.08	59.65	68.3	-8.65

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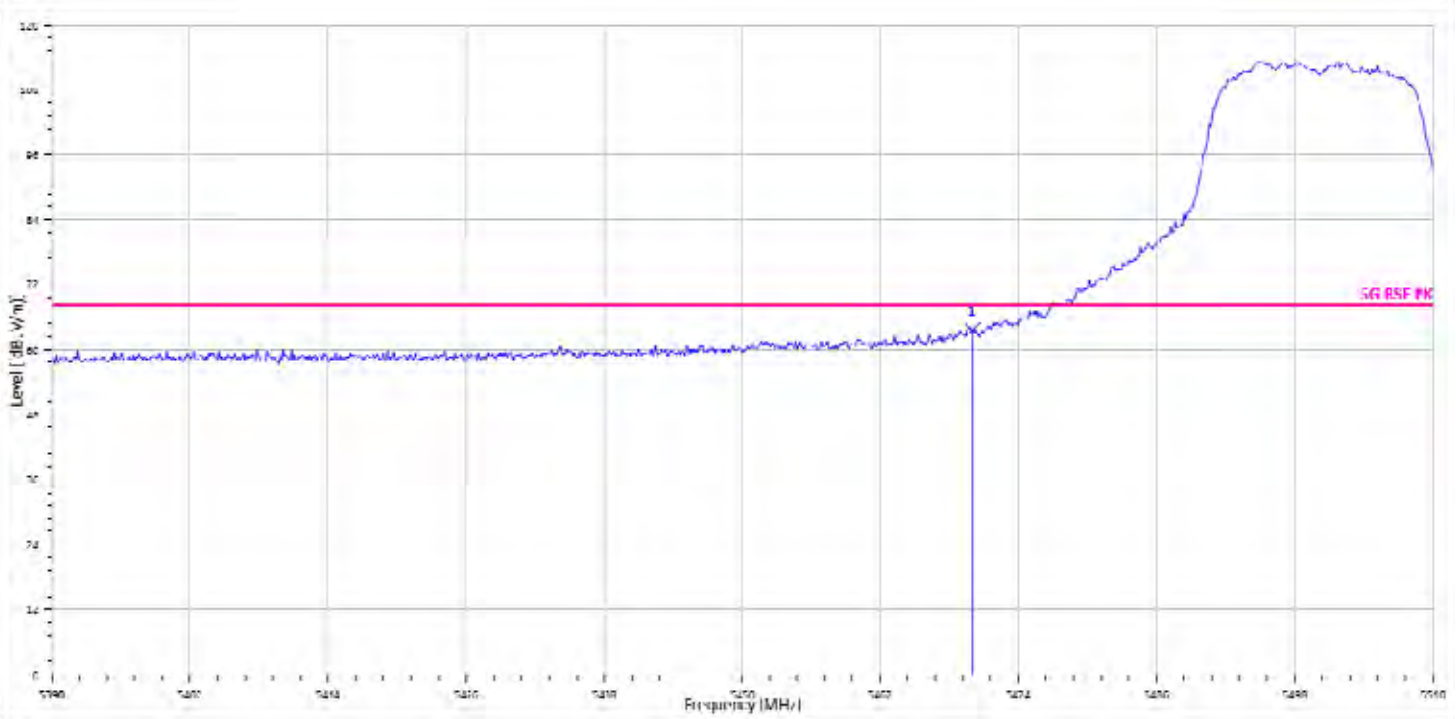
Operation Mode :	802.11n20B3	Test Date :	2018/2/13
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5470.00	E	Peak	63.55	0.08	63.63	68.3	-4.67

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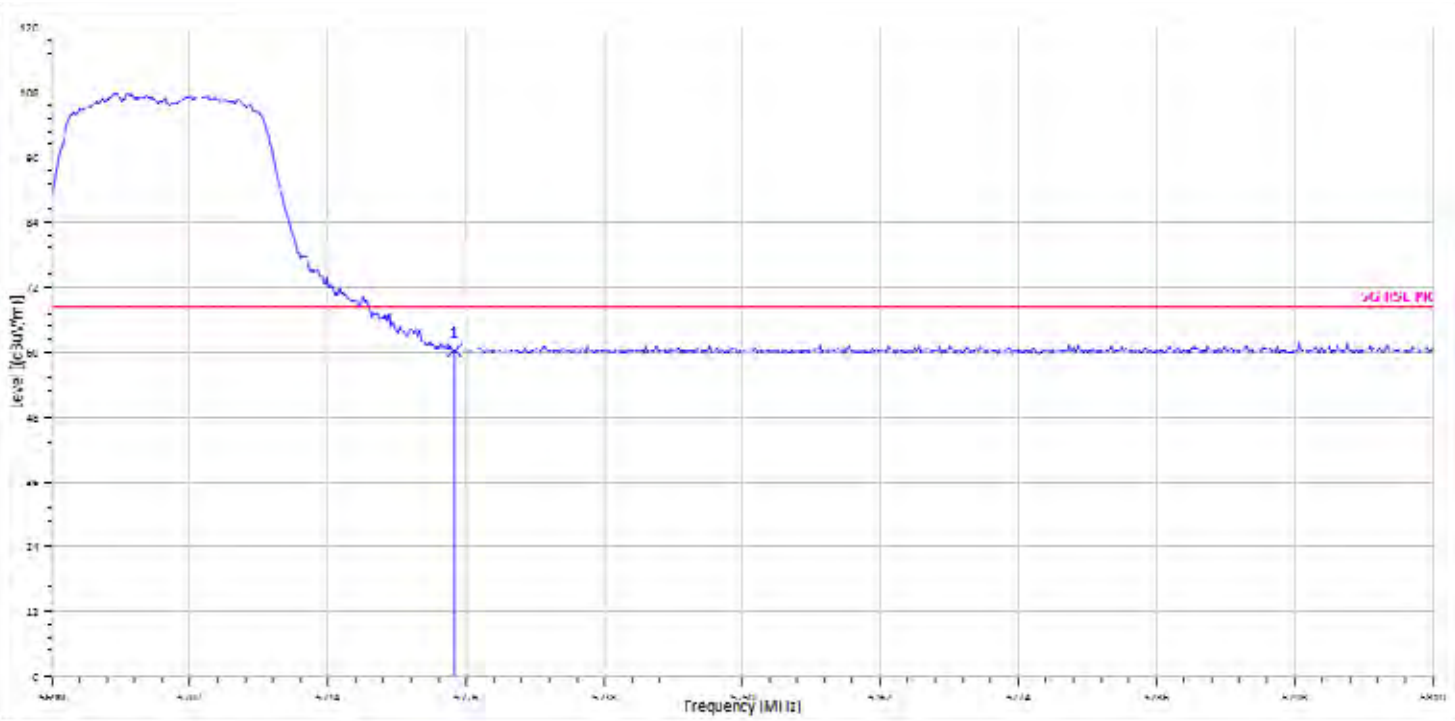
Operation Mode :	802.11n20B3	Test Date :	2018/2/21
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	59.61	0.69	60.30	68.3	-8.00

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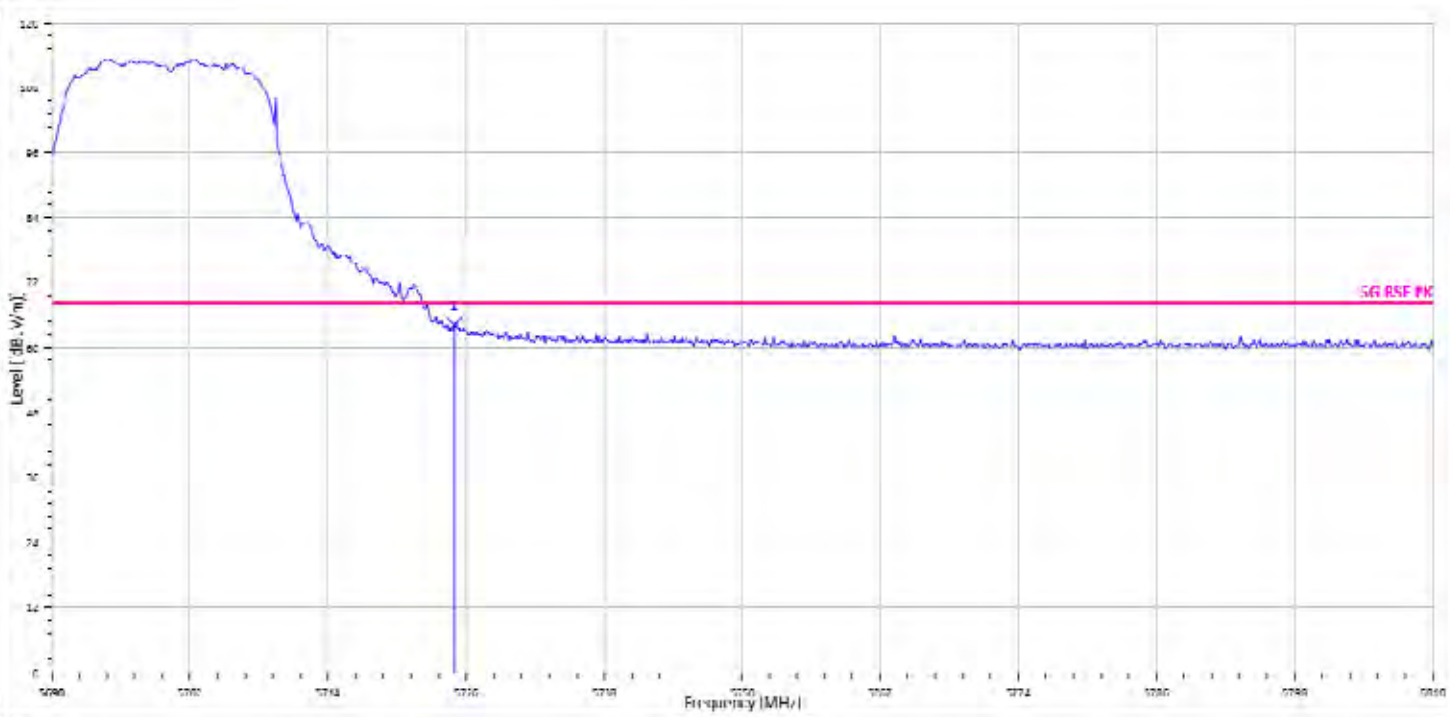
Operation Mode :	802.11n20B3	Test Date :	2018/2/21
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	63.55	0.69	64.24	68.3	-4.06

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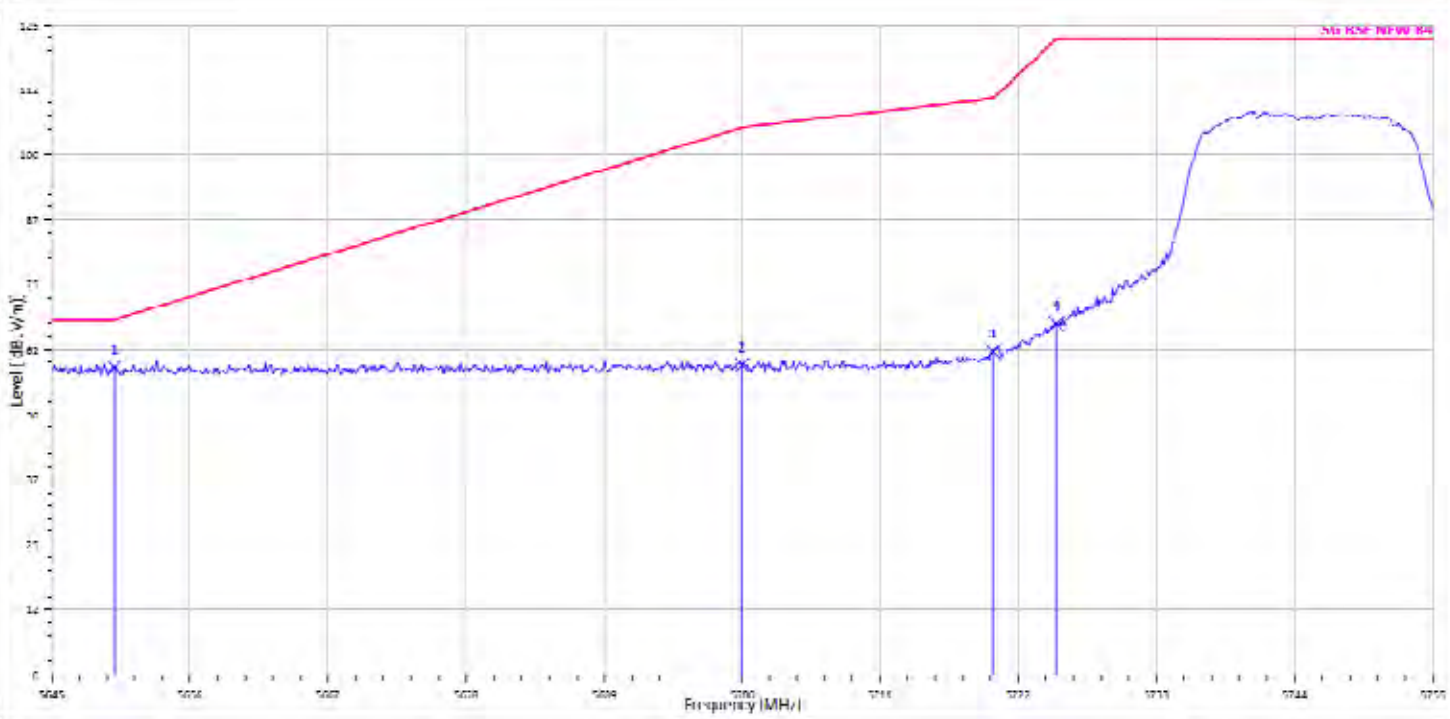
Operation Mode :	802.11n20B4	Test Date :	2018/2/13
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	58.35	0.63	58.97	68.23	-9.26
5700.00	S	Peak	58.96	0.56	59.52	105.23	-45.71
5720.00	S	Peak	61.46	0.66	62.12	110.83	-48.71
5725.00	E	Peak	66.77	0.69	67.45	122.23	-54.78

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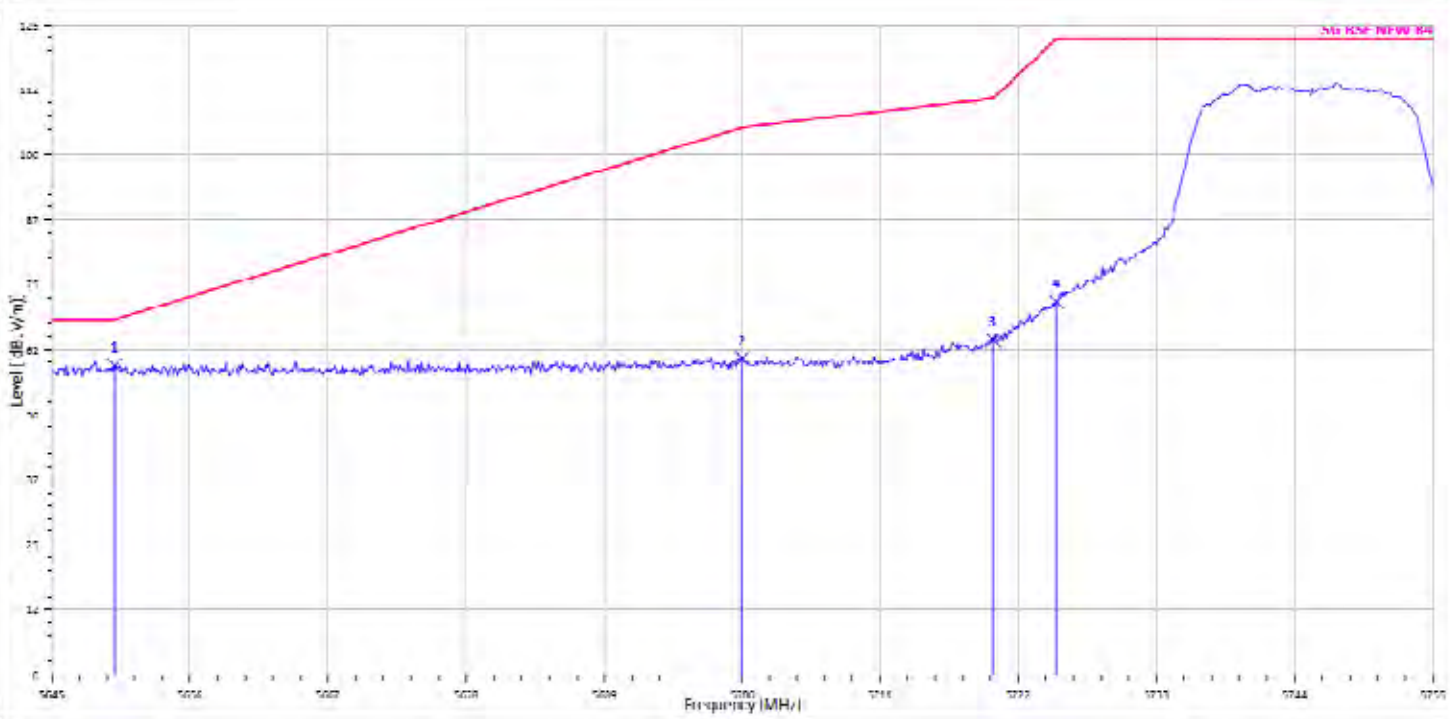
Operation Mode :	802.11n20B4	Test Date :	2018/2/13
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	58.77	0.63	59.40	68.23	-8.83
5700.00	S	Peak	60.18	0.56	60.74	105.23	-44.50
5720.00	S	Peak	63.65	0.66	64.31	110.83	-46.52
5725.00	E	Peak	71.05	0.69	71.74	122.23	-50.49

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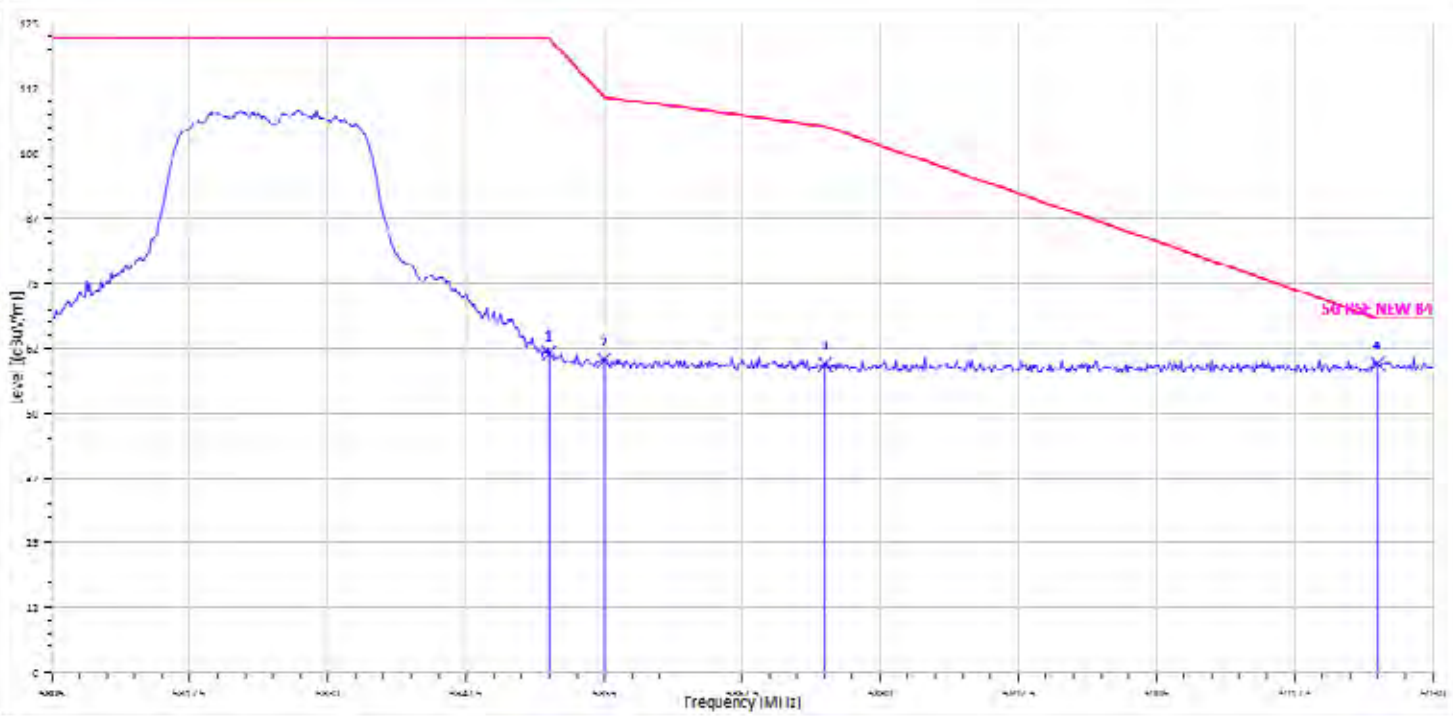
Operation Mode :	802.11n20B4	Test Date :	2018/2/13
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	60.40	1.01	61.41	122.23	-60.82
5855.00	S	Peak	59.19	1.01	60.20	110.83	-50.63
5875.00	S	Peak	58.45	0.99	59.44	105.23	-45.79
5925.00	S	Peak	58.52	1.04	59.56	68.23	-8.67

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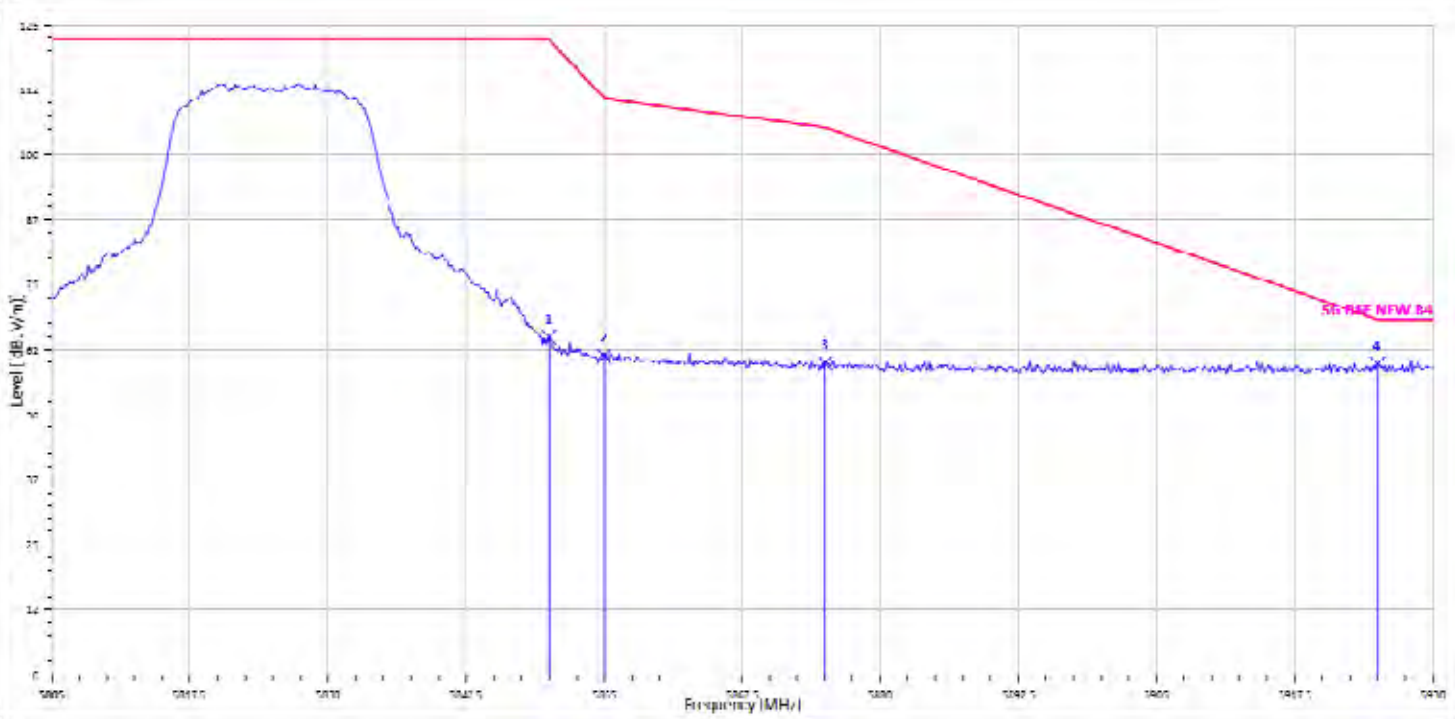
Operation Mode :	802.11n20B4	Test Date :	2018/2/13
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	63.86	1.01	64.87	122.23	-57.36
5855.00	S	Peak	60.21	1.01	61.22	110.83	-49.61
5875.00	S	Peak	58.89	0.99	59.87	105.23	-45.36
5925.00	S	Peak	58.72	1.04	59.76	68.23	-8.47

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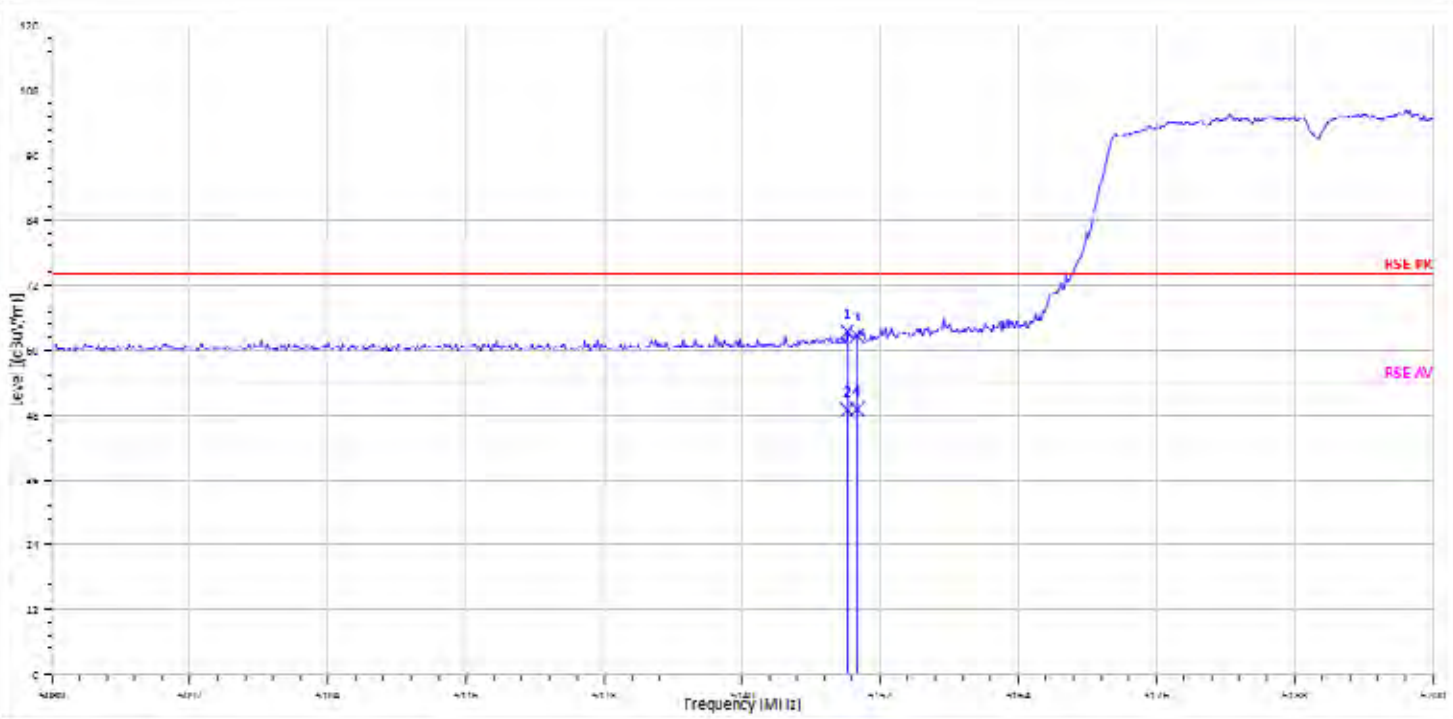
802.11n40 HT mode

Operation Mode :	802.11n40B1	Test Date :	2018/2/21
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.12	S	Peak	63.56	-0.17	63.39	74	-10.61
5149.12	S	Average	49.04	-0.17	48.87	54	-5.13
5150.00	E	Peak	62.83	-0.17	62.66	74	-11.34
5150.00	E	Average	49.16	-0.17	48.99	54	-5.01

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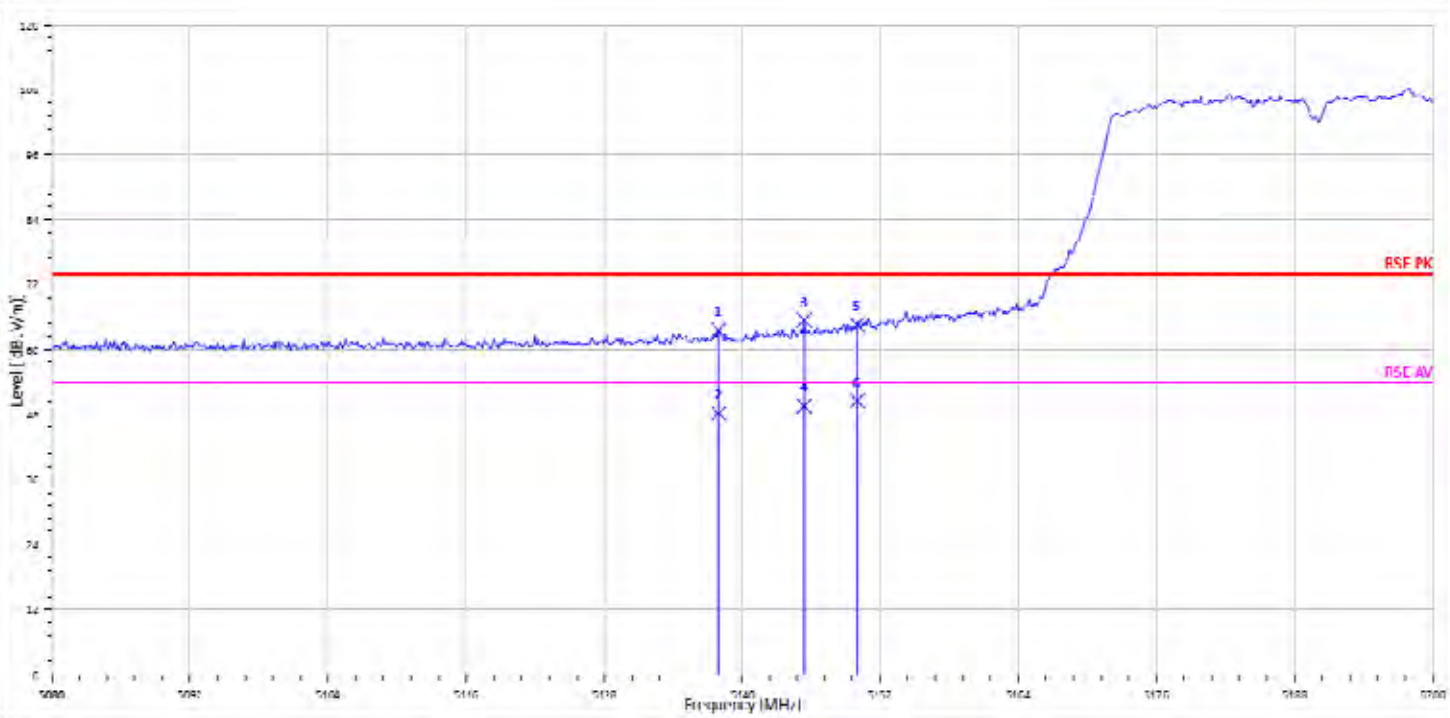
Operation Mode :	802.11n40B1	Test Date :	2018/2/21
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5137.96	S	Peak	63.81	-0.17	63.65	74	-10.35
5137.96	S	Average	48.36	-0.17	48.19	54	-5.81
5145.40	S	Peak	65.60	-0.17	65.43	74	-8.57
5145.40	S	Average	49.75	-0.17	49.58	54	-4.42
5150.00	E	Peak	64.80	-0.17	64.63	74	-9.37
5150.00	E	Average	50.70	-0.17	50.53	54	-3.48

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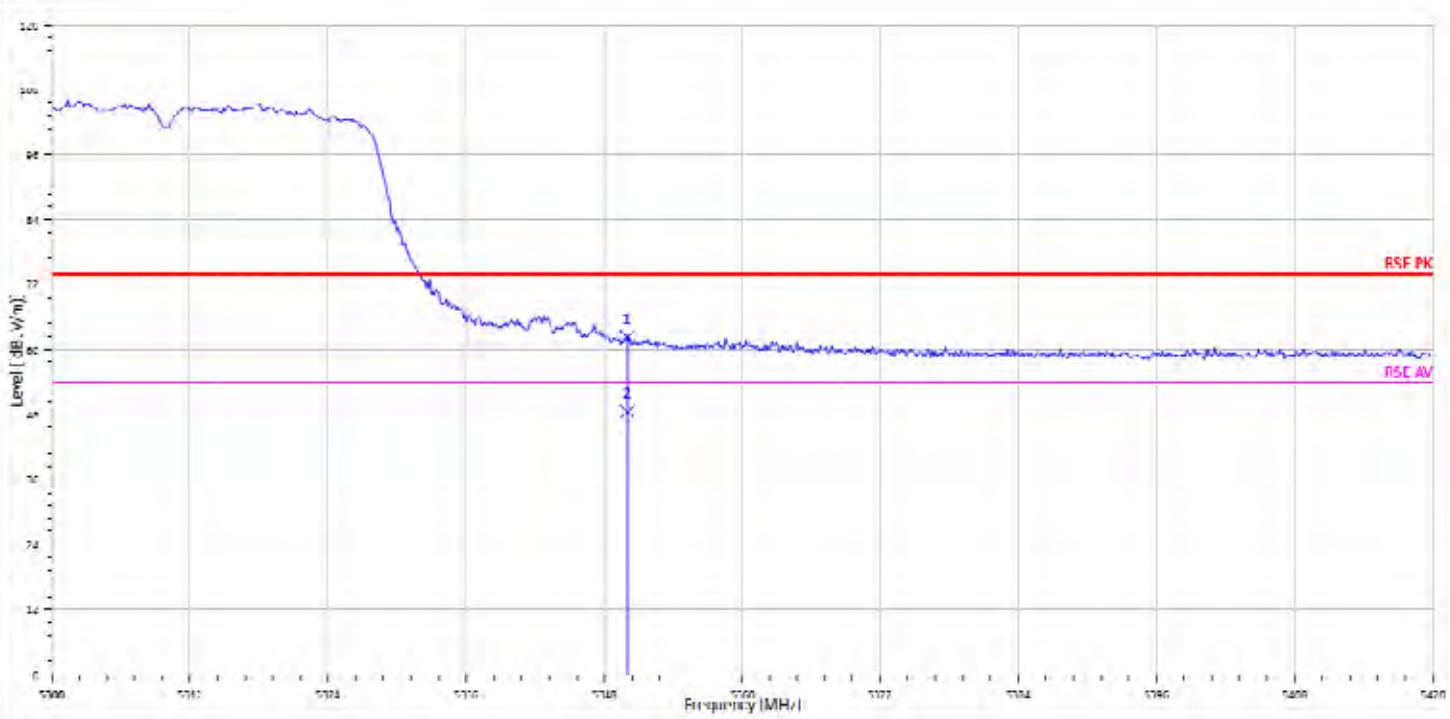
Operation Mode :	802.11n40B2	Test Date :	2018/2/21
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	62.40	-0.15	62.24	74	-11.76
5350.00	E	Average	48.68	-0.15	48.53	54	-5.47

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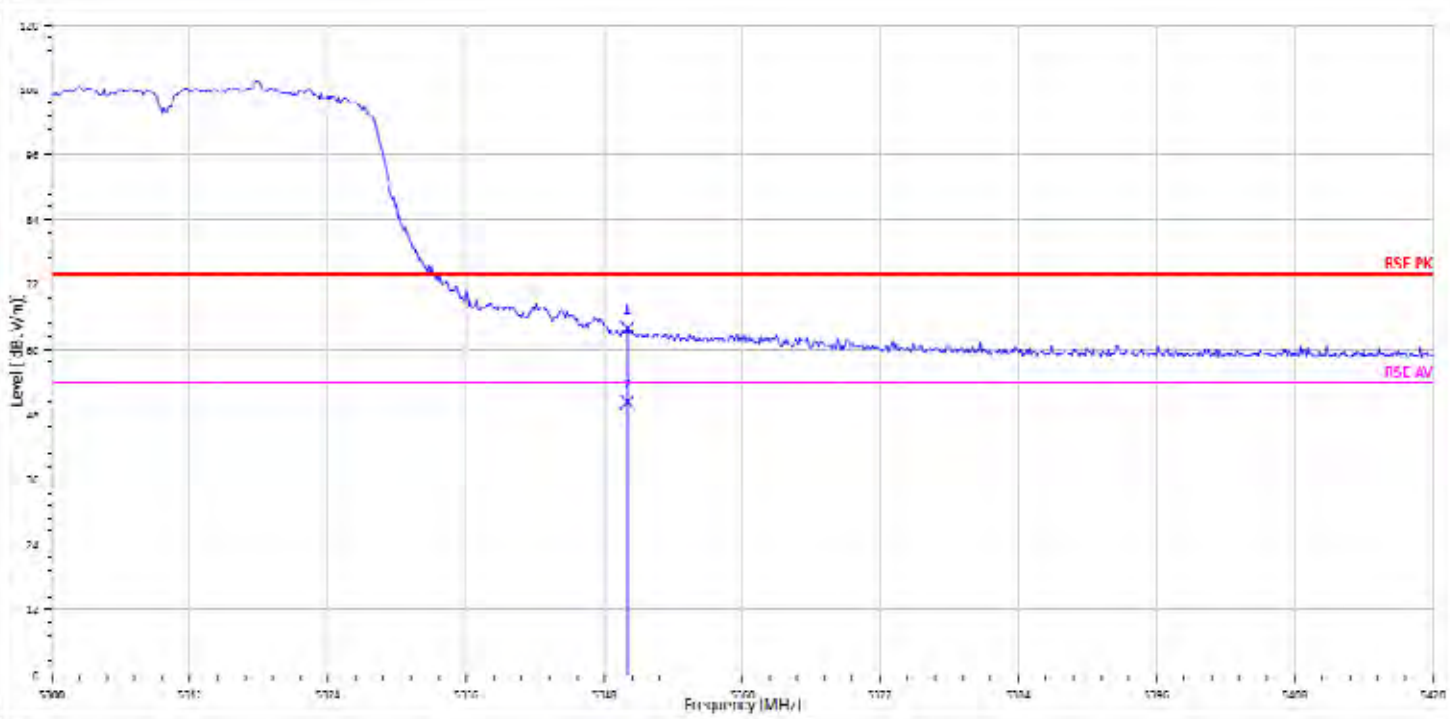
Operation Mode :	802.11n40B2	Test Date :	2018/2/21
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	64.12	-0.15	63.96	74	-10.04
5350.00	E	Average	50.50	-0.15	50.35	54	-3.65

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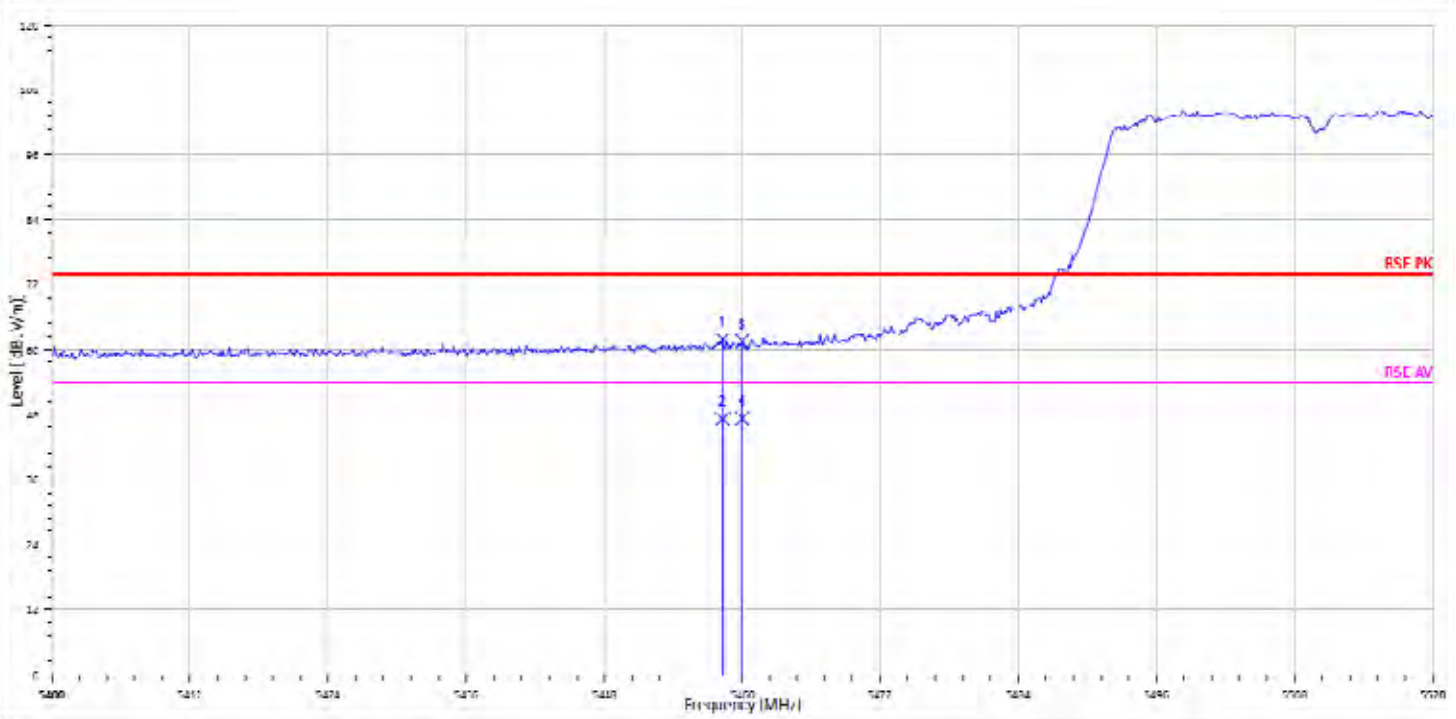
Operation Mode :	802.11n40B3	Test Date :	2018/2/21
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.32	S	Peak	61.79	0.05	61.84	74	-12.16
5458.32	S	Average	47.11	0.05	47.16	54	-6.84
5460.00	E	Peak	61.41	0.06	61.46	74	-12.54
5460.00	E	Average	47.18	0.06	47.24	54	-6.76

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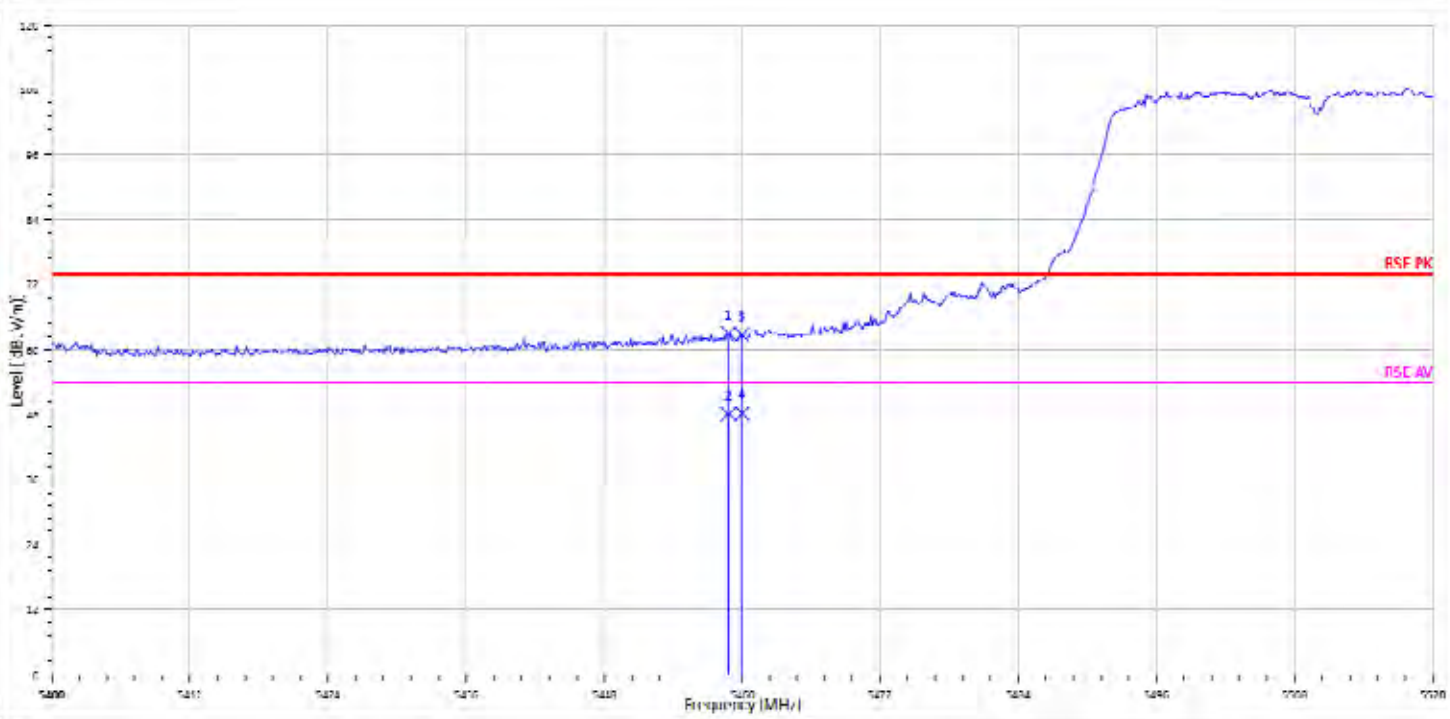
Operation Mode :	802.11n40B3	Test Date :	2018/2/21
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.80	S	Peak	62.98	0.06	63.04	74	-10.96
5458.80	S	Average	48.04	0.06	48.09	54	-5.91
5460.00	E	Peak	62.67	0.06	62.73	74	-11.27
5460.00	E	Average	48.13	0.06	48.19	54	-5.82

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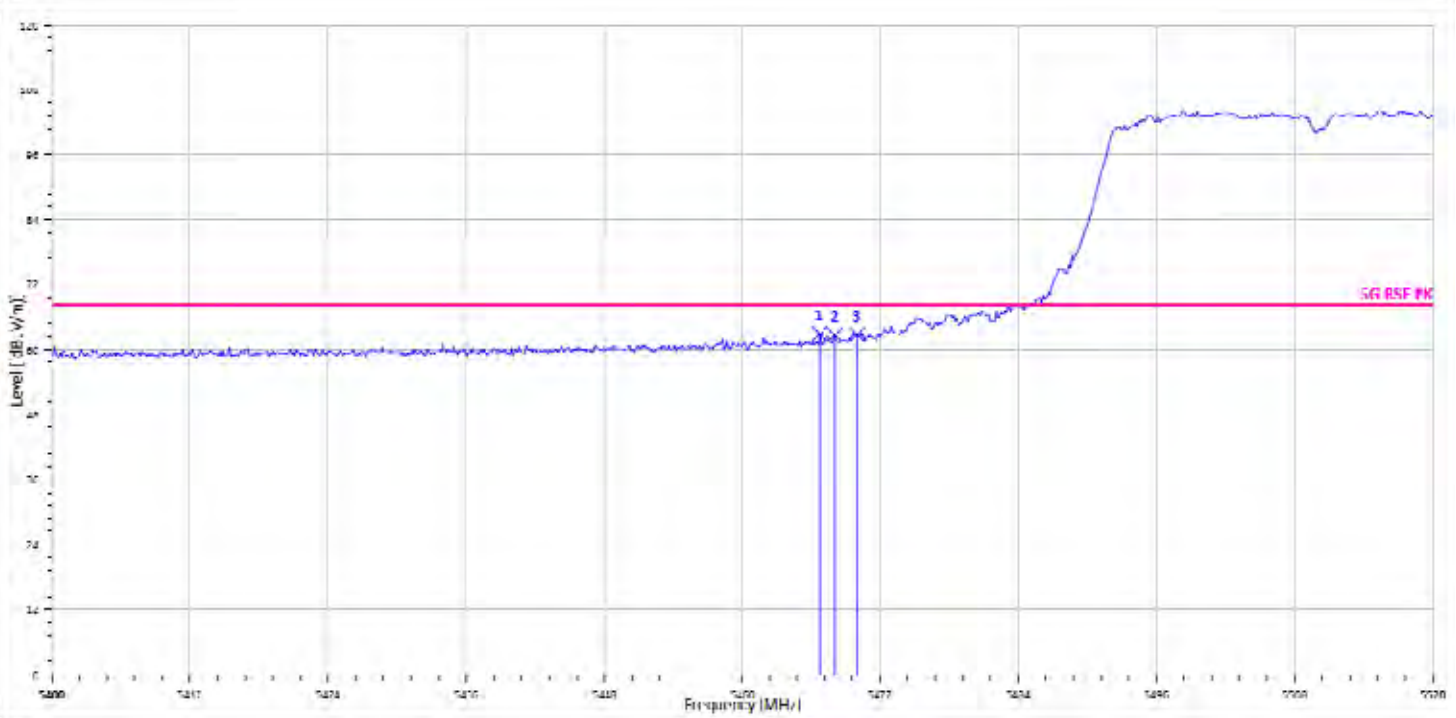
Operation Mode :	802.11n40B3	Test Date :	2018/2/21
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5466.72	S	Peak	62.84	0.07	62.92	68.3	-5.38
5468.04	S	Peak	62.61	0.08	62.68	68.3	-5.62
5470.00	E	Peak	62.66	0.08	62.74	68.3	-5.56

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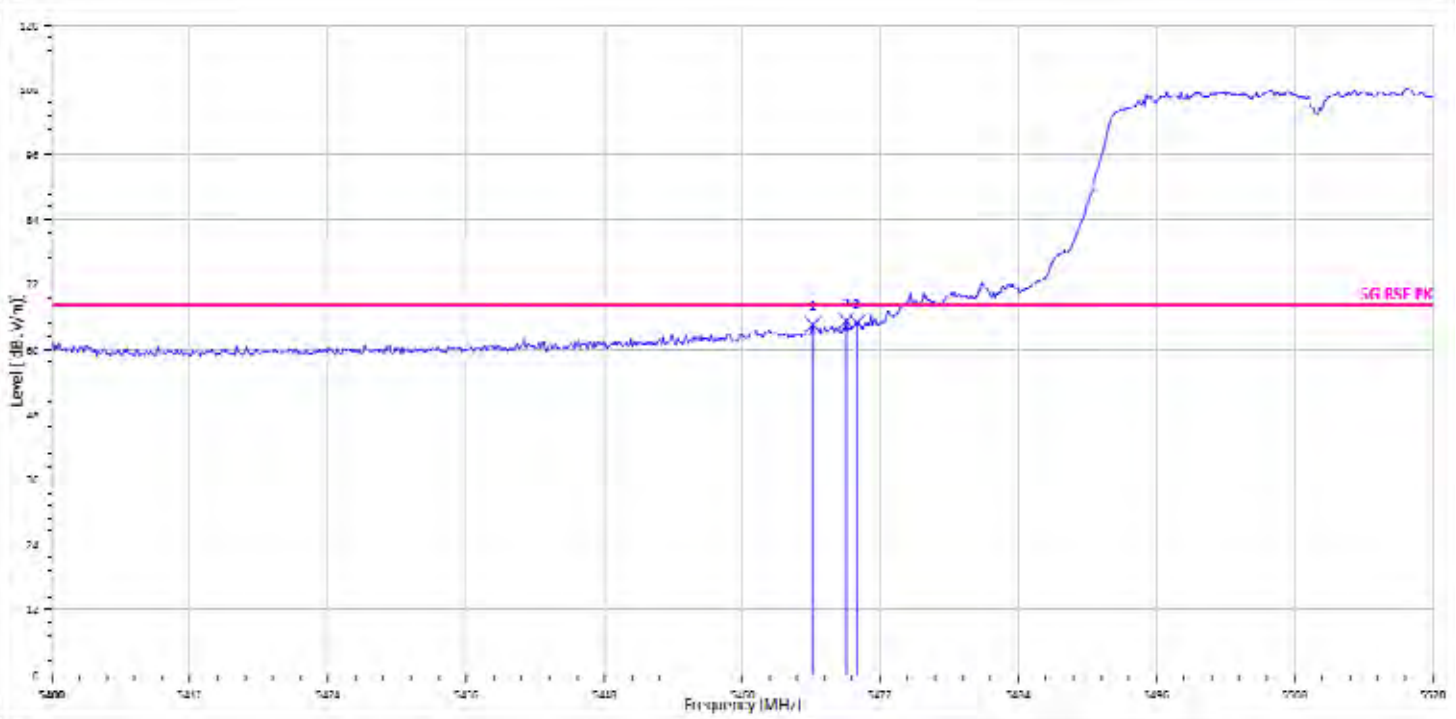
Operation Mode :	802.11n40B3	Test Date :	2018/2/21
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5466.12	S	Peak	64.57	0.07	64.64	68.3	-3.66
5469.00	S	Peak	65.20	0.08	65.28	68.3	-3.02
5470.00	E	Peak	64.92	0.08	65.00	68.3	-3.30

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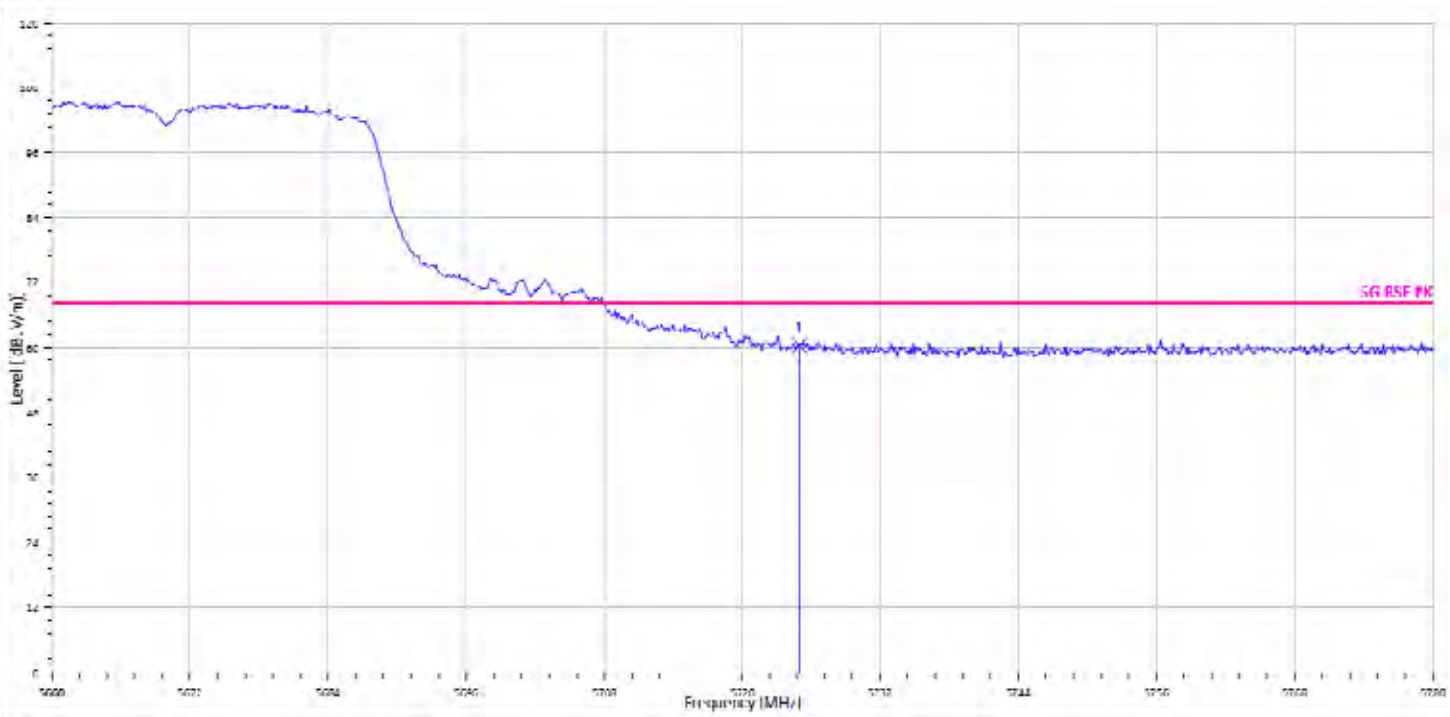
Operation Mode :	802.11n40B3	Test Date :	2018/2/13
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	59.69	0.69	60.37	68.3	-7.93

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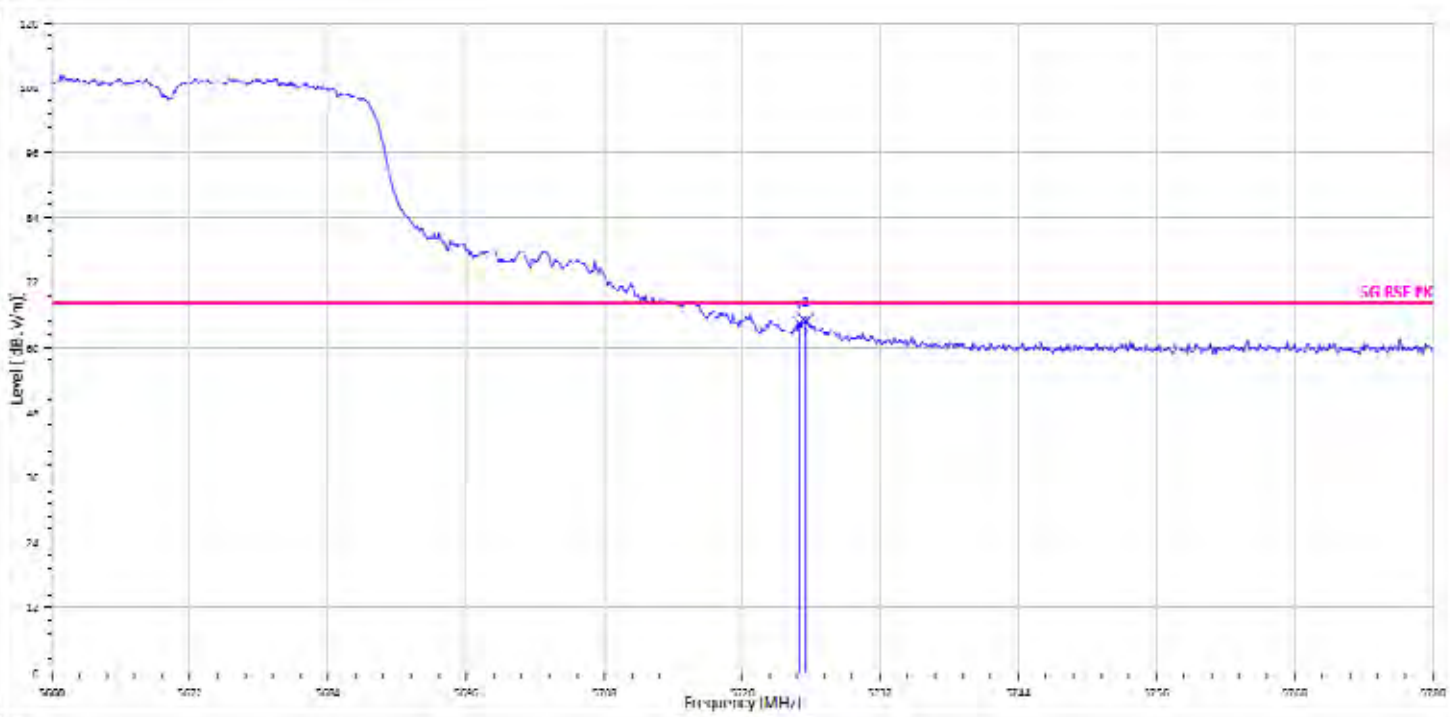
Operation Mode :	802.11n40B3	Test Date :	2018/2/13
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	63.77	0.69	64.45	68.3	-3.85
5725.52	S	Peak	64.18	0.69	64.86	68.3	-3.44

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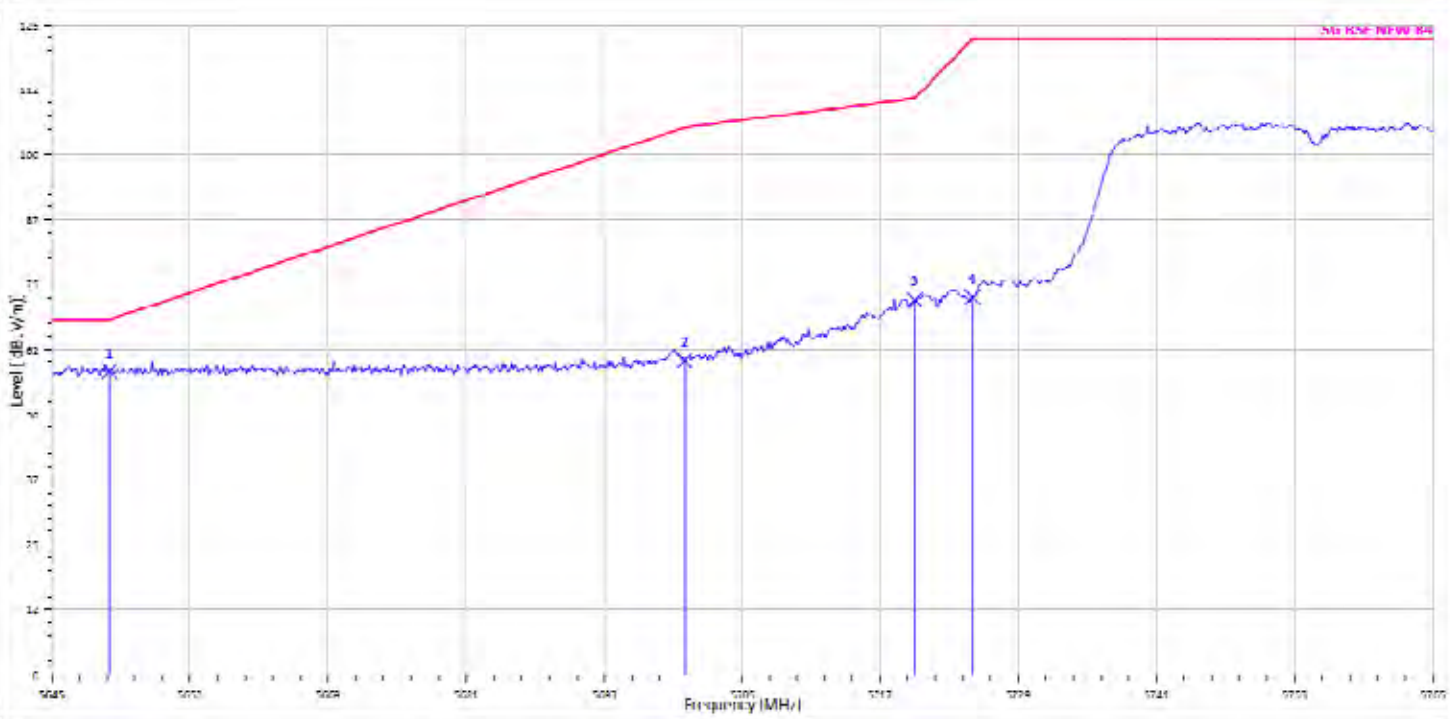
Operation Mode :	802.11n40B4	Test Date :	2018/2/13
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	57.71	0.63	58.34	68.23	-9.89
5700.00	S	Peak	59.80	0.56	60.36	105.23	-44.87
5720.00	S	Peak	71.42	0.66	72.08	110.83	-38.75
5725.00	E	Peak	71.92	0.69	72.61	122.23	-49.62

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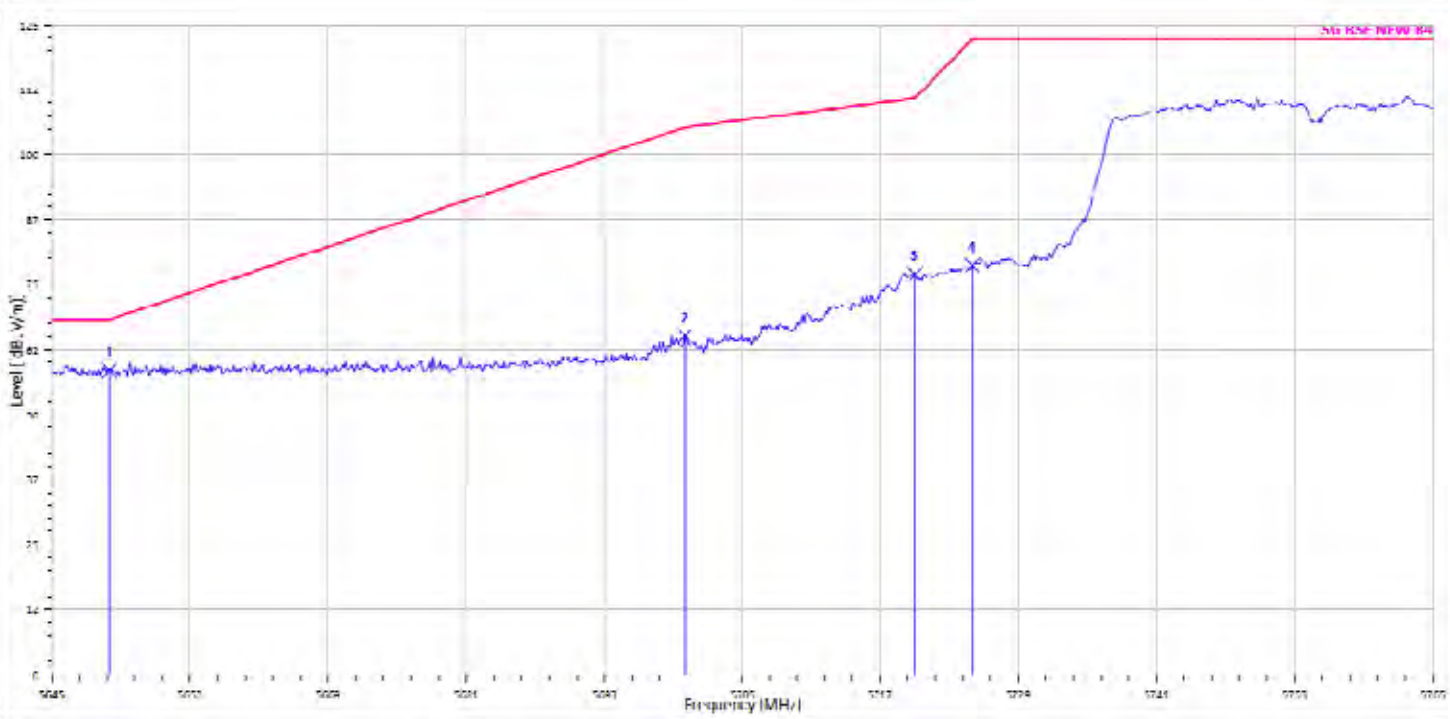
Operation Mode :	802.11n40B4	Test Date :	2018/2/13
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	57.79	0.63	58.42	68.23	-9.81
5700.00	S	Peak	64.61	0.56	65.17	105.23	-40.06
5720.00	S	Peak	76.31	0.66	76.97	110.83	-33.86
5725.00	E	Peak	77.99	0.69	78.67	122.23	-43.56

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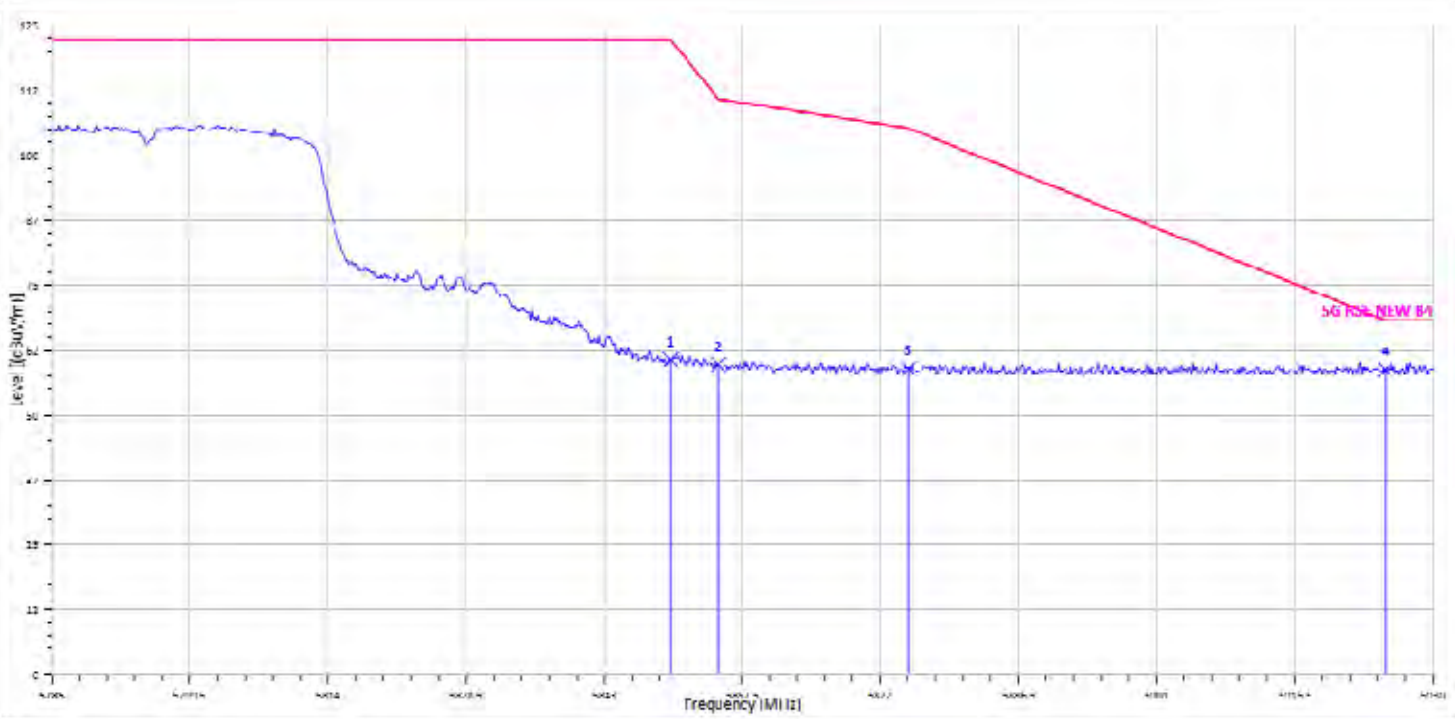
Operation Mode :	802.11n40B4	Test Date :	2018/2/13
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	59.64	1.01	60.65	122.23	-61.58
5855.00	S	Peak	58.71	1.01	59.72	110.83	-51.11
5875.00	S	Peak	57.93	0.99	58.91	105.23	-46.32
5925.00	S	Peak	57.67	1.04	58.71	68.23	-9.52

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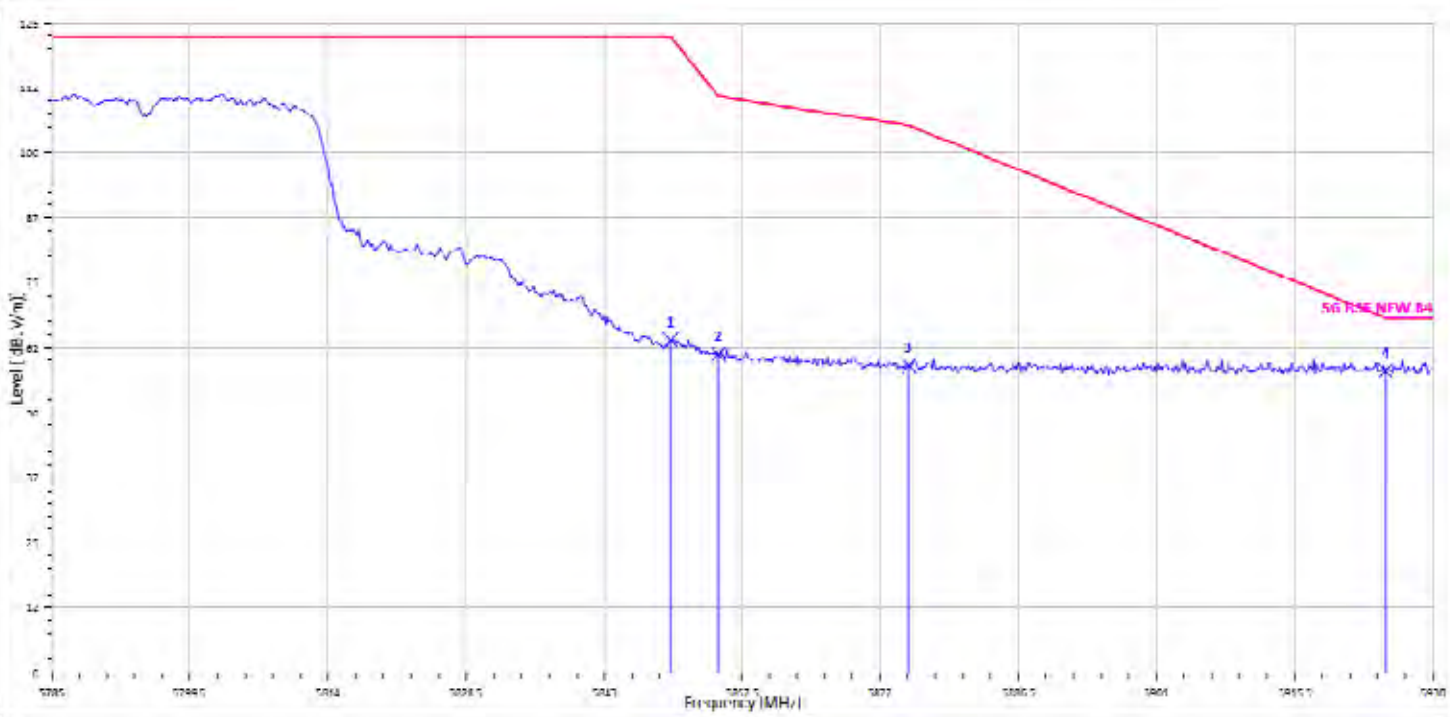
Operation Mode :	802.11n40B4	Test Date :	2018/2/13
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	62.89	1.01	63.90	122.23	-58.33
5855.00	S	Peak	60.19	1.01	61.20	110.83	-49.63
5875.00	S	Peak	58.01	0.99	58.99	105.23	-46.24
5925.00	S	Peak	56.97	1.04	58.01	68.23	-10.22

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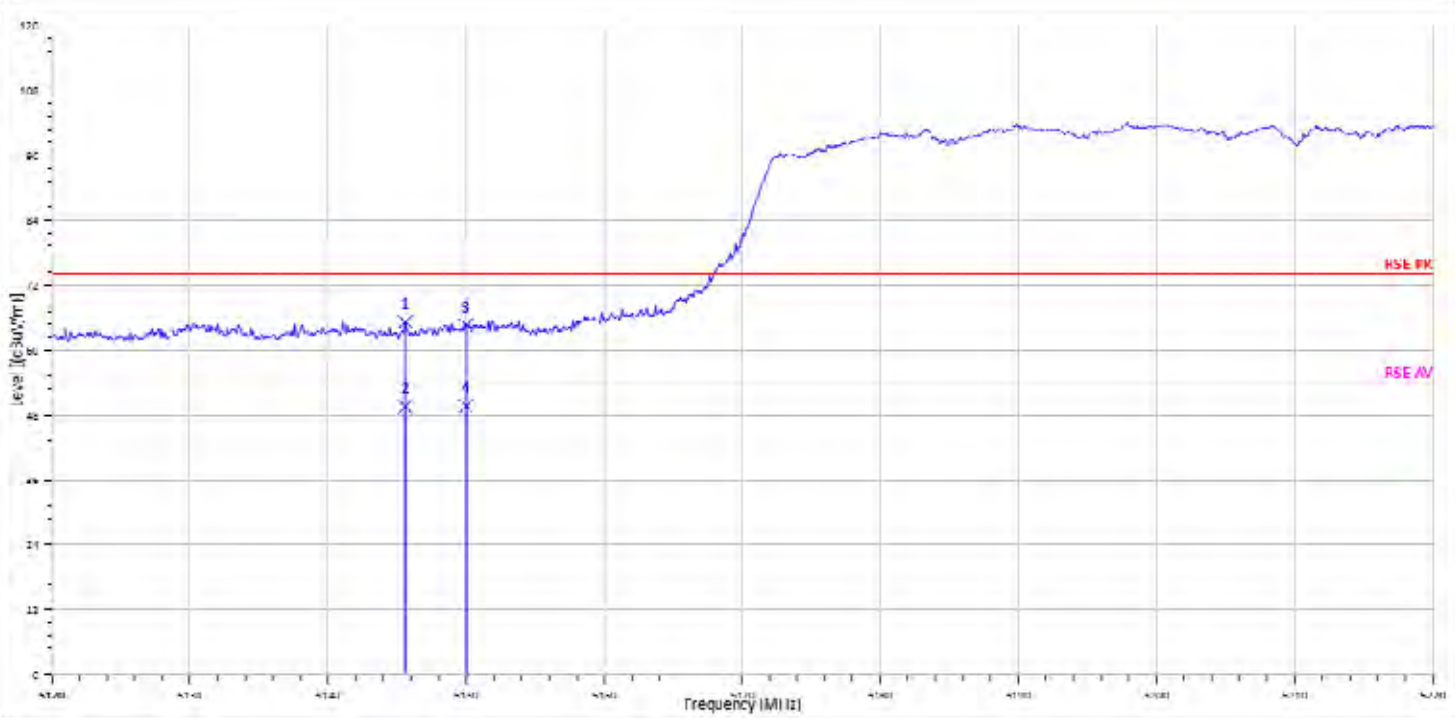
802.11ac80 VHT mode

Operation Mode :	802.11ac80B1	Test Date :	2018/2/21
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5145.60	S	Peak	65.36	-0.17	65.19	74	-8.81
5145.60	S	Average	49.69	-0.17	49.52	54	-4.48
5150.00	E	Peak	64.72	-0.17	64.55	74	-9.45
5150.00	E	Average	49.79	-0.17	49.62	54	-4.39

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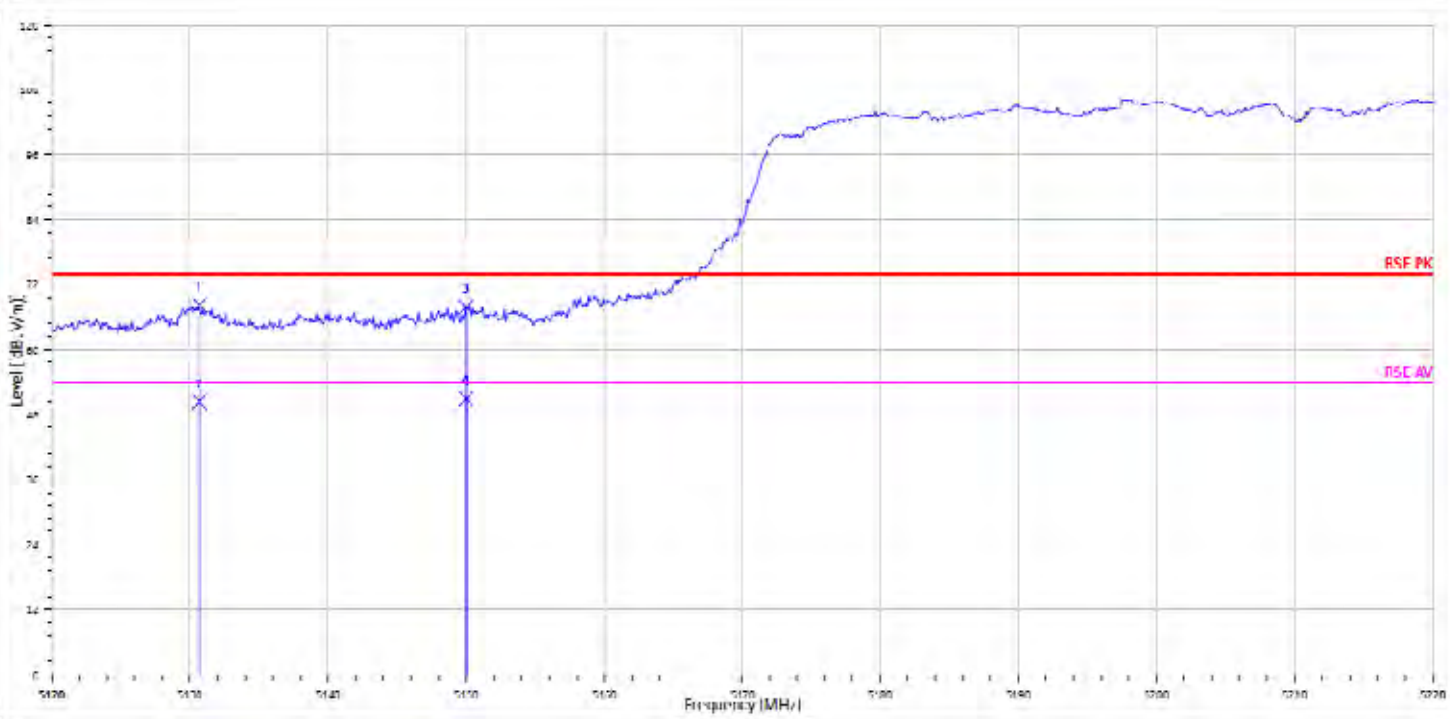
Operation Mode :	802.11ac80B1	Test Date :	2018/2/21
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5130.70	S	Peak	68.38	-0.17	68.21	74	-5.79
5130.70	S	Average	50.55	-0.17	50.38	54	-3.62
5150.00	E	Peak	68.02	-0.17	67.85	74	-6.15
5150.00	E	Average	51.09	-0.17	50.92	54	-3.08

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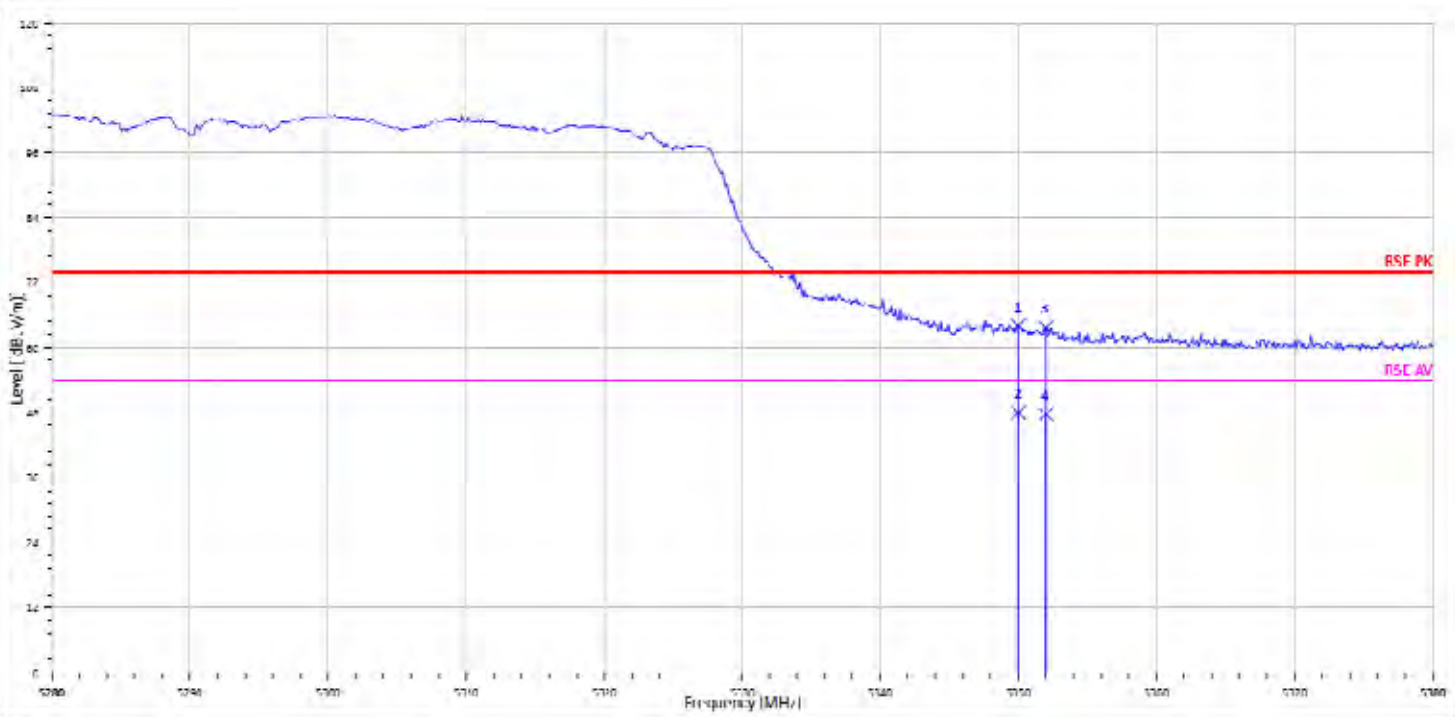
Operation Mode :	802.11ac80B2	Test Date :	2018/2/21
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	64.20	-0.15	64.04	74	-9.96
5350.00	E	Average	48.11	-0.15	47.95	54	-6.05
5352.00	S	Peak	63.89	-0.15	63.74	74	-10.26
5352.00	S	Average	47.84	-0.15	47.69	54	-6.31

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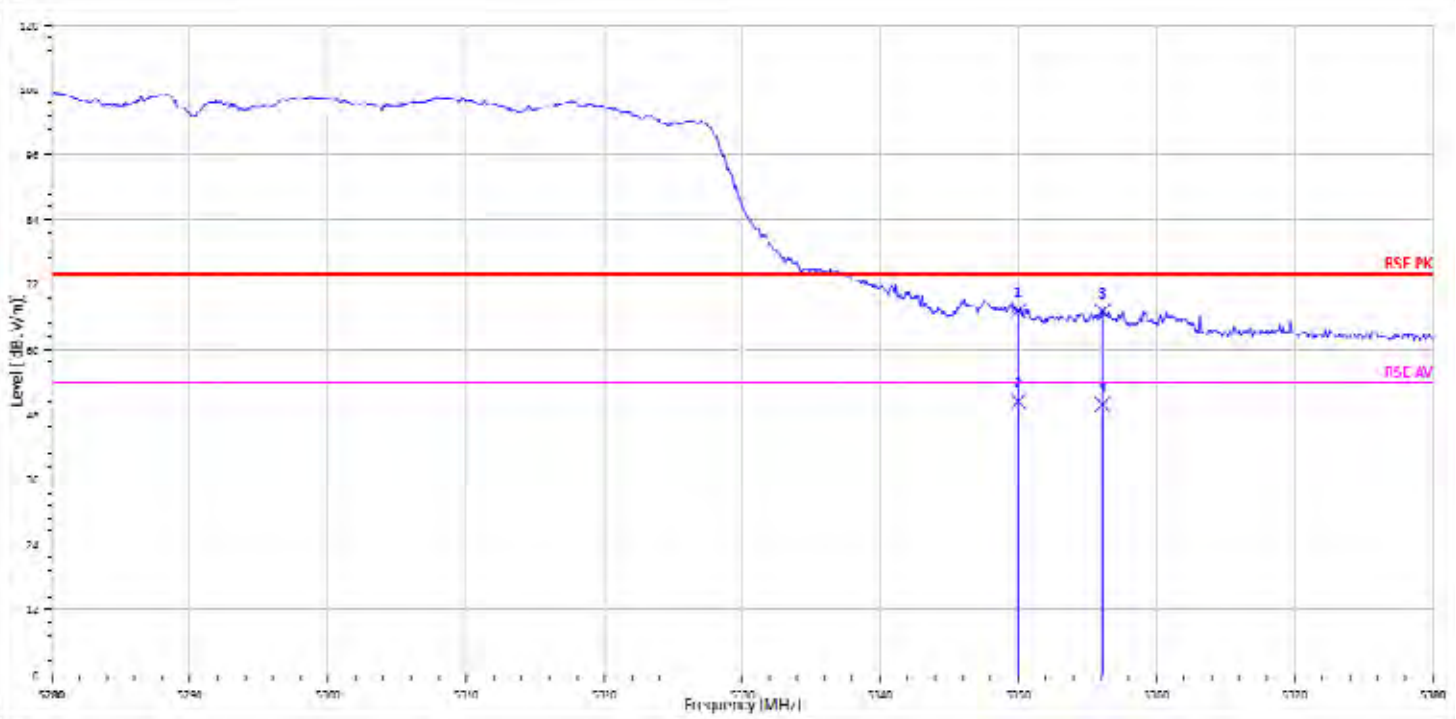
Operation Mode :	802.11ac80B2	Test Date :	2018/2/21
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	67.28	-0.15	67.12	74	-6.88
5350.00	E	Average	50.58	-0.15	50.42	54	-3.58
5356.10	S	Peak	67.24	-0.15	67.09	74	-6.91
5356.10	S	Average	50.03	-0.15	49.89	54	-4.11

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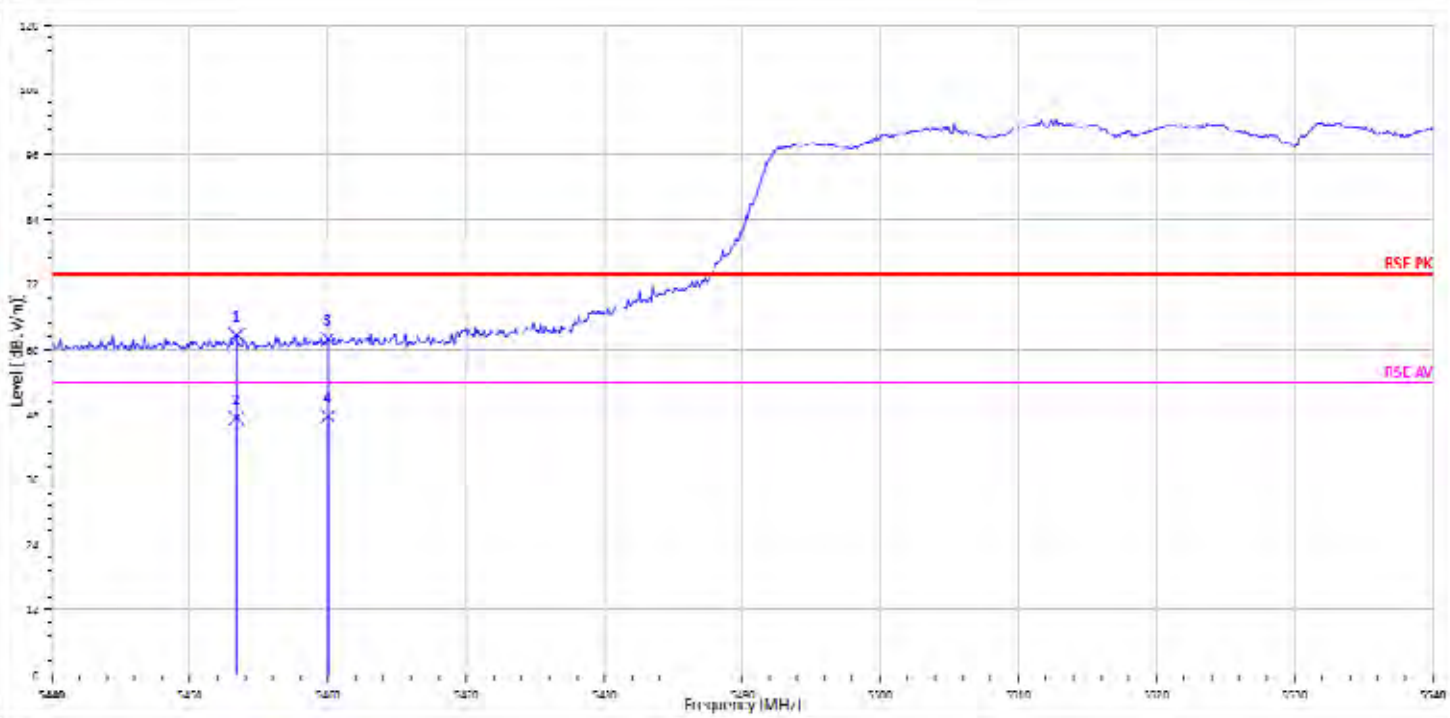
Operation Mode :	802.11ac80B3	Test Date :	2018/2/21
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5453.40	S	Peak	62.68	0.04	62.72	74	-11.28
5453.40	S	Average	47.31	0.04	47.35	54	-6.65
5460.00	E	Peak	61.87	0.06	61.93	74	-12.07
5460.00	E	Average	47.63	0.06	47.68	54	-6.32

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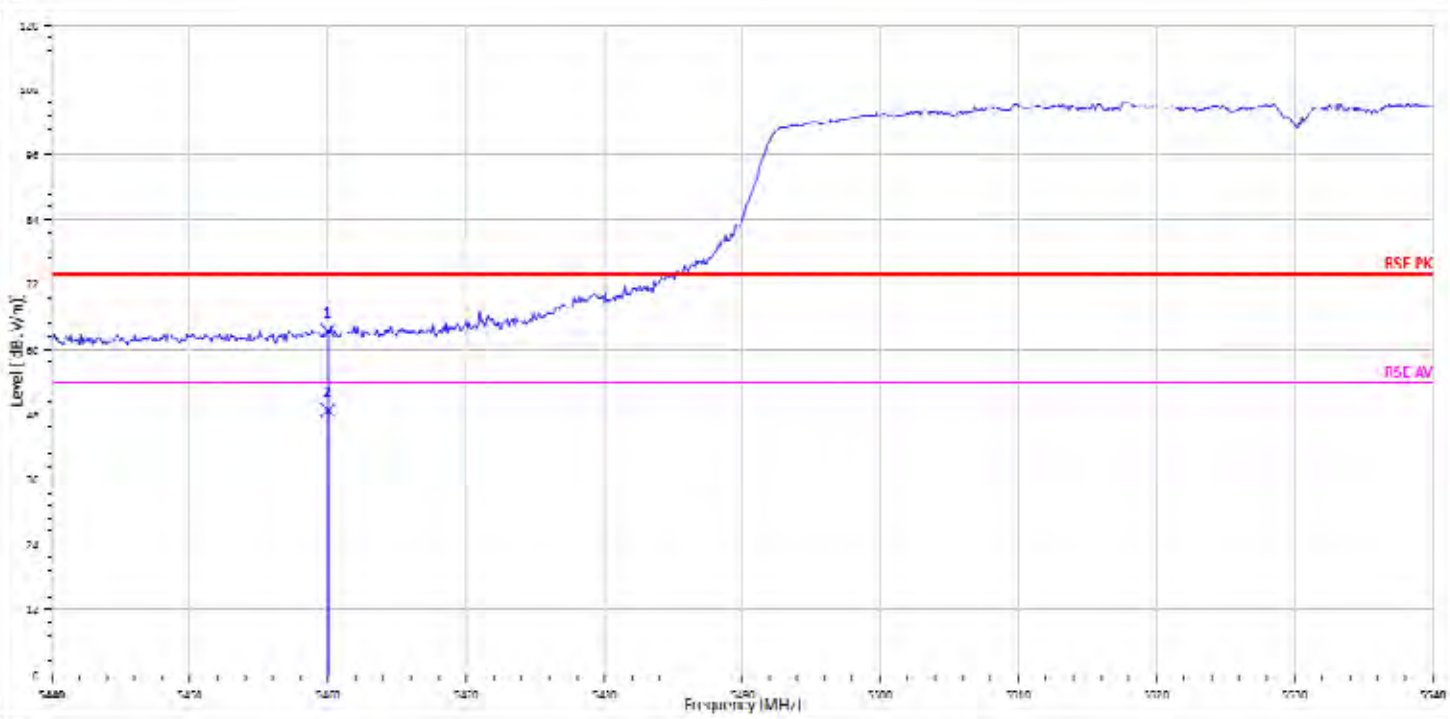
Operation Mode :	802.11ac80B3	Test Date :	2018/2/21
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Peak	63.42	0.06	63.48	74	-10.52
5460.00	E	Average	48.75	0.06	48.81	54	-5.19

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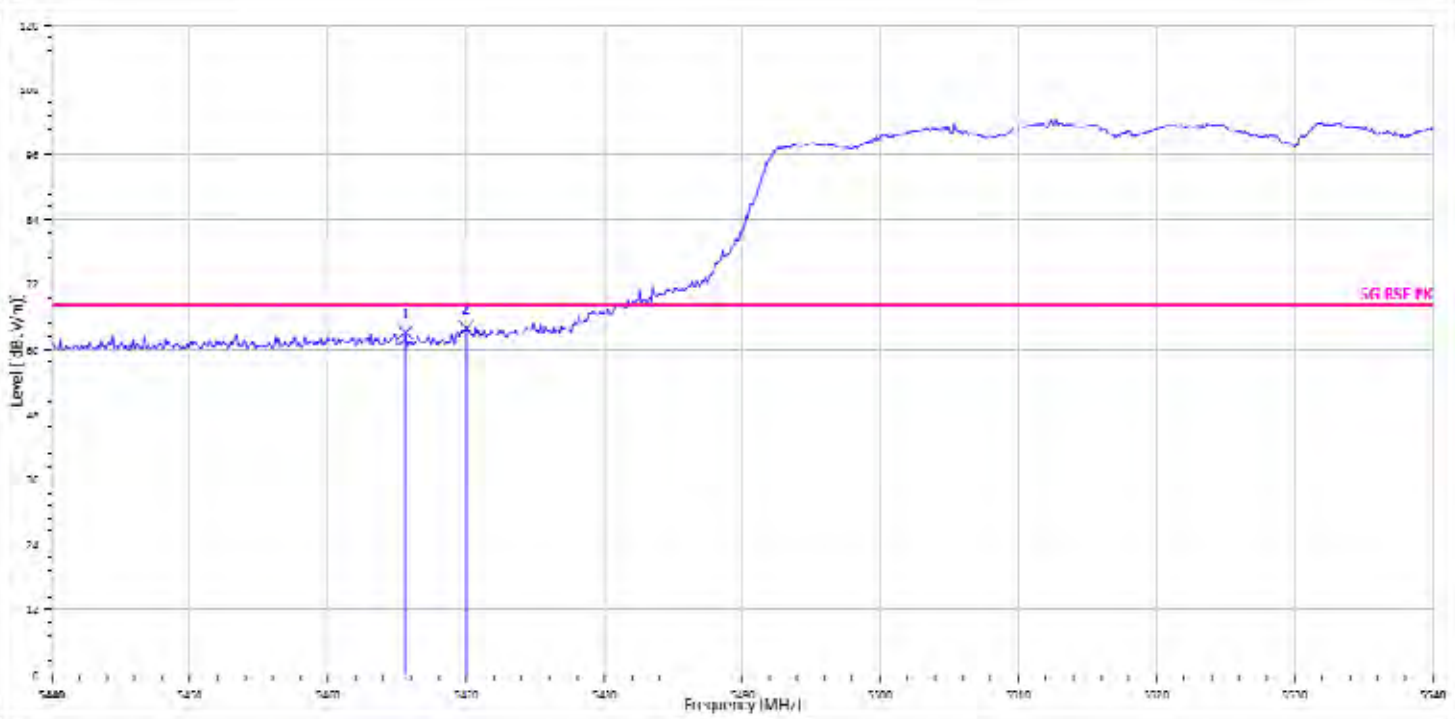
Operation Mode :	802.11ac80B3	Test Date :	2018/2/21
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5465.60	S	Peak	63.12	0.07	63.19	68.3	-5.11
5470.00	E	Peak	63.89	0.08	63.97	68.3	-4.33

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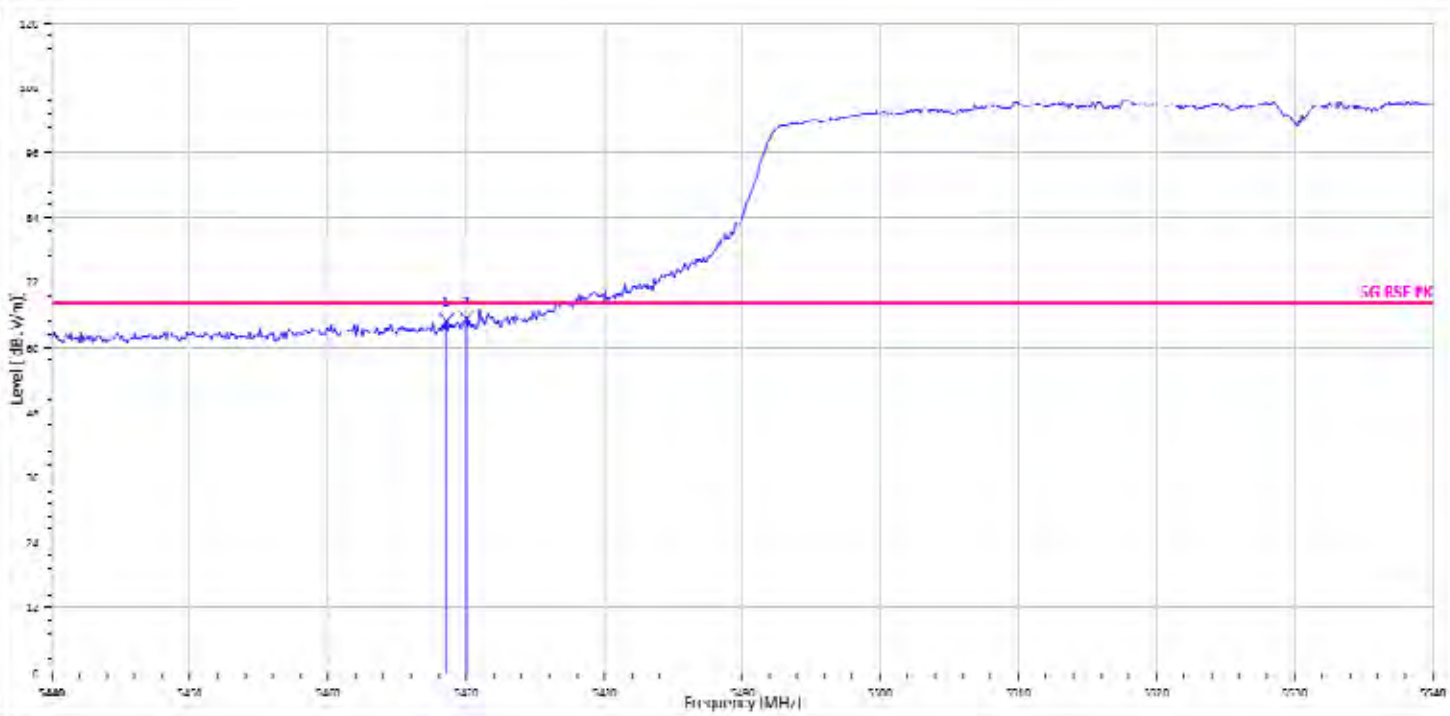
Operation Mode :	802.11ac80B3	Test Date :	2018/2/21
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5468.60	S	Peak	64.85	0.08	64.93	68.3	-3.37
5470.00	E	Peak	65.20	0.08	65.28	68.3	-3.02

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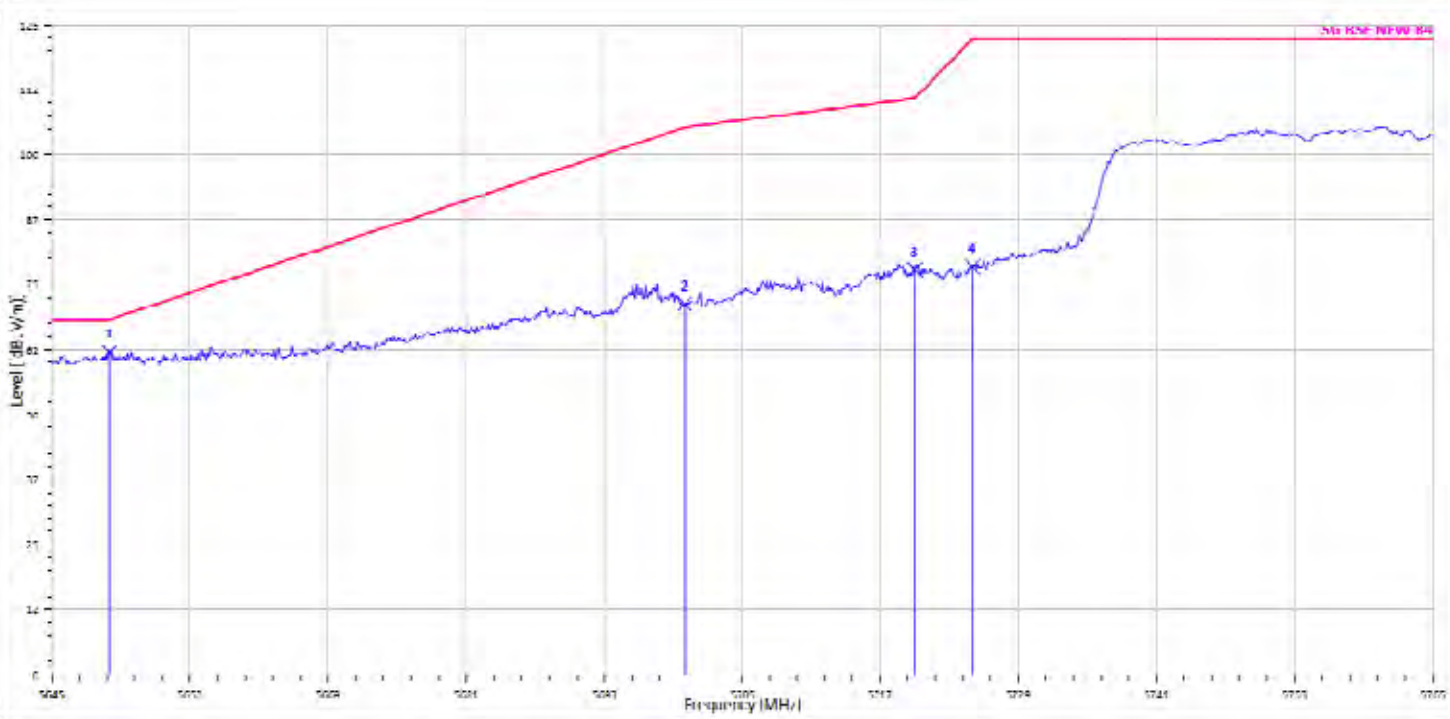
Operation Mode :	802.11ac80B4	Test Date :	2018/2/13
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	61.39	0.63	62.02	68.23	-6.21
5700.00	S	Peak	70.71	0.56	71.27	105.23	-33.96
5720.00	S	Peak	77.19	0.66	77.85	110.83	-32.98
5725.00	E	Peak	77.73	0.69	78.41	122.23	-43.82

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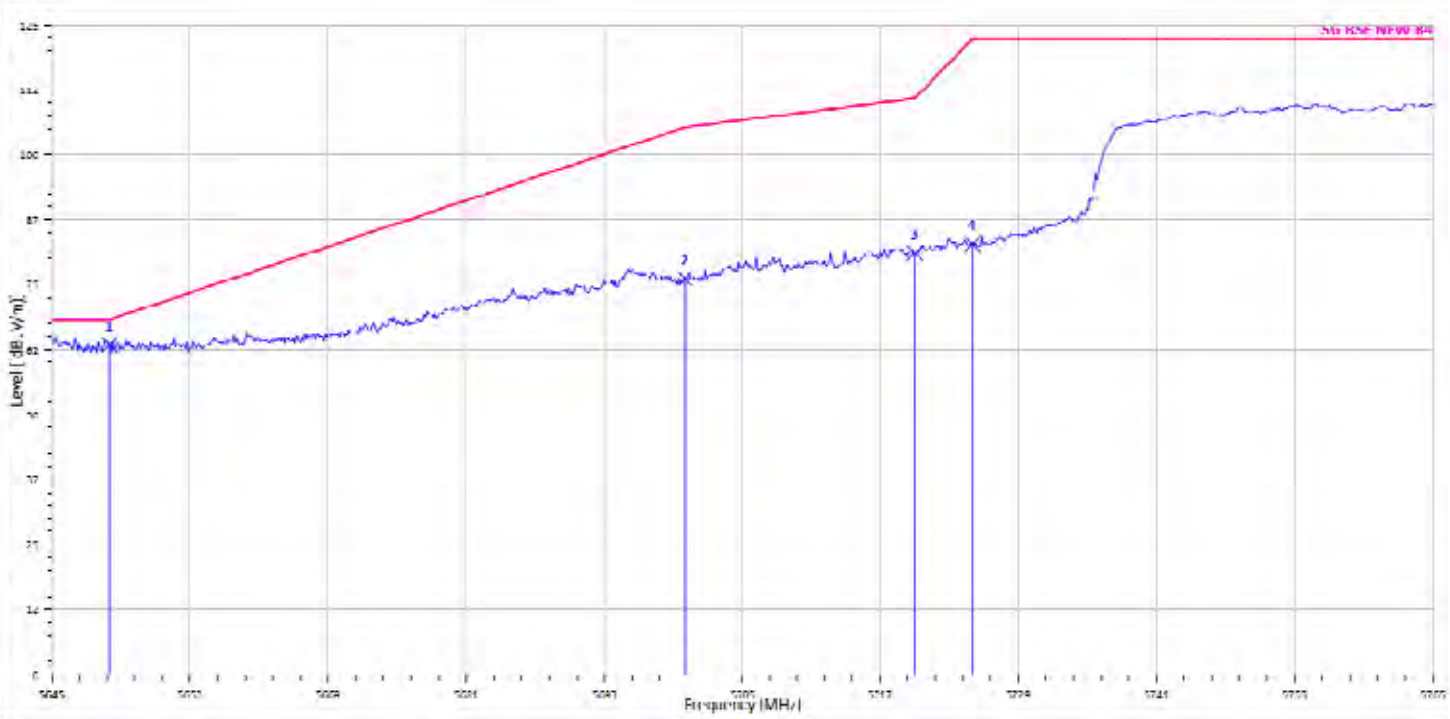
Operation Mode :	802.11ac80B4	Test Date :	2018/2/13
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	62.78	0.63	63.41	68.23	-4.82
5700.00	S	Peak	75.63	0.56	76.19	105.23	-29.04
5720.00	S	Peak	80.41	0.66	81.07	110.83	-29.76
5725.00	E	Peak	82.14	0.69	82.83	122.23	-39.40

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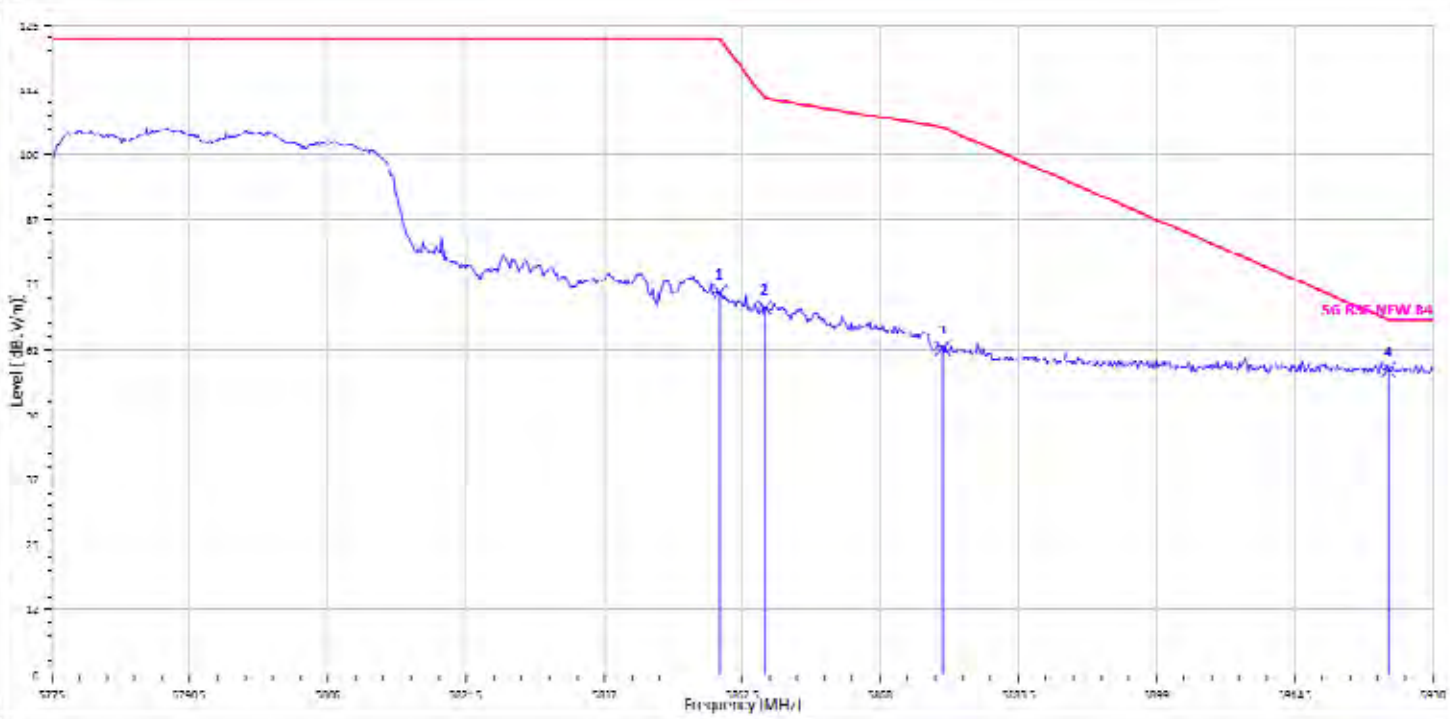
Operation Mode :	802.11ac80B4	Test Date :	2018/2/13
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	72.50	1.01	73.51	122.23	-48.72
5855.00	S	Peak	69.56	1.01	70.57	110.83	-40.26
5875.00	S	Peak	61.82	0.99	62.80	105.23	-42.43
5925.00	S	Peak	57.58	1.04	58.62	68.23	-9.61

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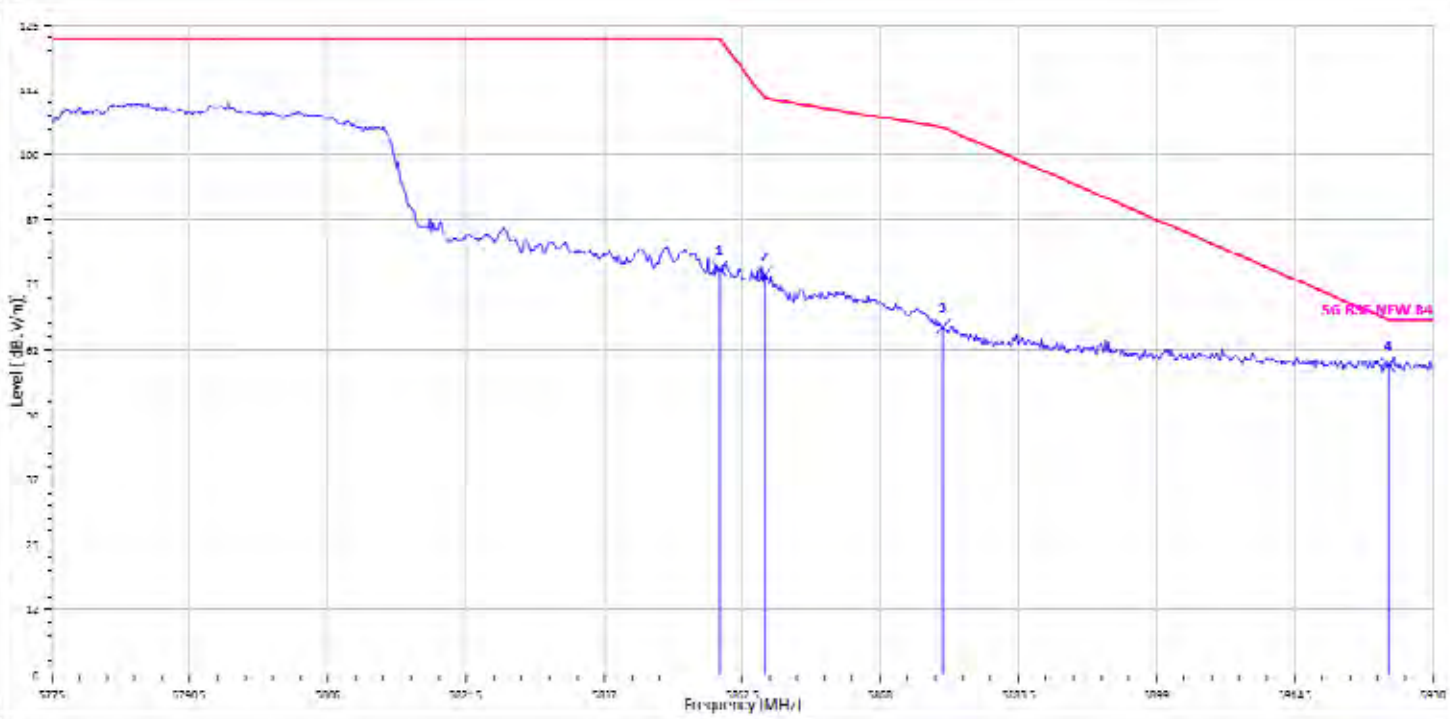
Operation Mode :	802.11ac80B4	Test Date :	2018/2/13
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	77.03	1.01	78.04	122.23	-44.19
5855.00	S	Peak	75.91	1.01	76.92	110.83	-33.91
5875.00	S	Peak	65.92	0.99	66.91	105.23	-38.32
5925.00	S	Peak	58.53	1.04	59.57	68.23	-8.66

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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

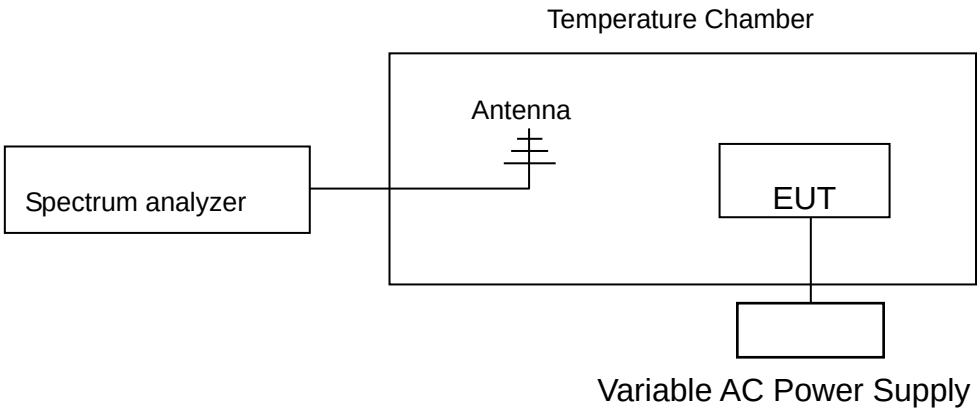
13.1 Standard Applicable

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**
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/24/2017	12/23/2018
DC Block	PASTERNACK	PE8210	RF29	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018

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13.5 Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2018.02.23
Temperature	:20 ℃	Test By	Henry
Humidity	:57 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20 ℃	8.8V	36	5180	5,179.99918	0.00000016
		44	5220	5,219.99969	0.00000006
		48	5240	5,239.99910	0.00000017
		52	5260	5,259.99928	0.00000014
		60	5300	5,299.99969	0.00000006
		64	5320	5,319.99967	0.00000006
		100	5500	5,499.99987	0.00000002
		116	5580	5,579.99956	0.00000008
		140	5700	5,699.99933	0.00000012
		149	5745	5,744.99953	0.00000008
		157	5785	5,784.99951	0.00000008
		165	5825	5,824.99962	0.00000007
	6.894V	36	5180	5,179.99952	0.00000009
		44	5220	5,219.99918	0.00000016
		48	5240	5,239.99950	0.00000010
		52	5260	5,259.99963	0.00000007
		60	5300	5,299.99925	0.00000014
		64	5320	5,319.99993	0.00000001
		100	5500	5,499.99919	0.00000015
		116	5580	5,579.99986	0.00000003
		140	5700	5,699.99912	0.00000015
		149	5745	5,744.99974	0.00000005
		157	5785	5,784.99924	0.00000013
		165	5825	5,824.99993	0.00000001

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25 ℃	7.66V	36	5180	5,179.97100	0.00000560
		44	5220	5,220.00000	0.00000000
		48	5240	5,239.99718	0.00000054
		52	5260	5,260.00000	0.00000000
		60	5300	5,300.00000	0.00000000
		64	5320	5,319.98498	0.00000282
		100	5500	5,500.00000	0.00000000
		116	5580	5,579.96635	0.00000603
		140	5700	5,699.97200	0.00000491
		149	5745	5,744.96595	0.00000593
		157	5785	5,784.96537	0.00000599
		165	5825	5,825.00000	0.00000000

55 ℃	8.8V	36	5180	5,179.99958	0.00000008
		44	5220	5,219.99932	0.00000013
		48	5240	5,239.99972	0.00000005
		52	5260	5,259.99973	0.00000005
		60	5300	5,299.99993	0.00000001
		64	5320	5,319.99953	0.00000009
		100	5500	5,499.99996	0.00000001
		116	5580	5,579.99958	0.00000008
		140	5700	5,699.99915	0.00000015
		149	5745	5,744.99956	0.00000008
		157	5785	5,784.99933	0.00000012
		165	5825	5,824.99970	0.00000005
	6.894V	36	5180	5,179.99977	0.00000004
		44	5220	5,219.99957	0.00000008
		48	5240	5,239.99962	0.00000007
		52	5260	5,259.99987	0.00000002
		60	5300	5,299.99972	0.00000005
		64	5320	5,319.99966	0.00000006
		100	5500	5,499.99944	0.00000010
		116	5580	5,579.99947	0.00000009
		140	5700	5,699.99972	0.00000005
		149	5745	5,744.99922	0.00000014
		157	5785	5,784.99929	0.00000012
		165	5825	5,824.99986	0.00000002

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Operation Mode	802.11 n_HT40	Test Date	2018.02.23
Temperature	:20 ℃	Test By	Henry
Humidity	:57 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20 ℃	8.8V	38	5190	5,189.99916	0.00000016
		46	5230	5,229.99949	0.00000010
		54	5270	5,269.99973	0.00000005
		62	5310	5,309.99980	0.00000004
		102	5510	5,509.99917	0.00000015
		110	5550	5,549.99934	0.00000012
		134	5670	5,669.99920	0.00000014
		142	5710	5,709.99875	0.00000022
		151	5755	5,754.99958	0.00000007
		159	5795	5,794.99966	0.00000006
	6.894V	38	5190	5,189.99914	0.00000017
		46	5230	5,229.99951	0.00000009
		54	5270	5,269.99973	0.00000005
		62	5310	5,309.99917	0.00000016
		102	5510	5,509.99970	0.00000005
		110	5550	5,549.99953	0.00000008
		134	5670	5,669.99940	0.00000011
		142	5710	5,709.99863	0.00000024
		151	5755	5,754.99967	0.00000006
		159	5795	5,794.99919	0.00000014

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25 °C	7.66V	38	5190	5,189.96868	0.00000603
		46	5230	5,229.98300	0.00000325
		54	5270	5,269.96793	0.00000609
		62	5310	5,310.00000	0.00000000
		102	5510	5,509.99981	0.00000003
		110	5550	5,549.96650	0.00000604
		134	5670	5,670.00000	0.00000000
		142	5710	5,709.99835	0.00000029
		151	5755	5,754.96535	0.00000602
		159	5795	5,794.97953	0.00000353
55 °C	8.8V	38	5190	5,189.99919	0.00000016
		46	5230	5,229.99981	0.00000004
		54	5270	5,269.99972	0.00000005
		62	5310	5,309.99920	0.00000015
		102	5510	5,509.99938	0.00000011
		110	5550	5,549.99965	0.00000006
		134	5670	5,669.99956	0.00000008
		142	5710	5,709.99841	0.00000028
		151	5755	5,754.99937	0.00000011
		159	5795	5,794.99915	0.00000015
	6.894V	38	5190	5,189.99913	0.00000017
		46	5230	5,229.99951	0.00000009
		54	5270	5,269.99916	0.00000016
		62	5310	5,309.99947	0.00000010
		102	5510	5,509.99985	0.00000003
		110	5550	5,549.99913	0.00000016
		134	5670	5,669.99977	0.00000004
		142	5710	5,709.99836	0.00000029
		151	5755	5,754.99928	0.00000013
		159	5795	5,794.99987	0.00000002

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Operation Mode	802.11 ac_VHT80	Test Date	2018.02.23
Temperature	:20 ℃	Test By	Henry
Humidity	:57 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20 ℃	8.8V	42	5210	5,209.99931	0.00000013
		58	5290	5,289.99968	0.00000006
		106	5530	5,529.99993	0.00000001
		122	5610	5,609.99927	0.00000013
		138	5690	5,689.99925	0.00000013
		155	5775	5,774.99945	0.00000010
	6.894V	42	5210	5,209.99984	0.00000003
		58	5290	5,289.99958	0.00000008
		106	5530	5,529.99925	0.00000014
		122	5610	5,609.99937	0.00000011
		138	5690	5,689.99935	0.00000011
		155	5775	5,774.99916	0.00000015
25 ℃	7.66V	42	5210	5,210.00000	0.00000000
		58	5290	5,289.96805	0.00000604
		106	5530	5,530.00000	0.00000000
		122	5610	5,610.10000	-0.00001783
		138	5690	5,689.99949	0.00000009
		155	5775	5,774.96500	0.00000606
55 ℃	8.8V	42	5210	5,209.99941	0.00000011
		58	5290	5,289.99915	0.00000016
		106	5530	5,529.99997	0.00000001
		122	5610	5,609.99952	0.00000009
		138	5690	5,689.99958	0.00000007
		155	5775	5,774.99910	0.00000016
	6.894V	42	5210	5,209.99981	0.00000004
		58	5290	5,289.99981	0.00000004
		106	5530	5,529.99951	0.00000009
		122	5610	5,609.99978	0.00000004
		138	5690	5,689.99967	0.00000006
		155	5775	5,774.99915	0.00000015

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2 Minutes:

Operation Mode	802.11 a	Test Date	2018.02.23
Temperature	:20 ℃	Test By	Henry
Humidity	:57 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20 ℃	8.8V	36	5180	5,179.99955	0.00000009
		44	5220	5,219.99931	0.00000013
		48	5240	5,239.99971	0.00000006
		52	5260	5,259.99932	0.00000013
		60	5300	5,299.99933	0.00000013
		64	5320	5,319.99992	0.00000002
		100	5500	5,499.99945	0.00000010
		116	5580	5,579.99948	0.00000009
		140	5700	5,699.99974	0.00000005
		149	5745	5,744.99955	0.00000008
		157	5785	5,784.99972	0.00000005
		165	5825	5,824.99954	0.00000008
	6.894V	36	5180	5,179.99931	0.00000013
		44	5220	5,219.99963	0.00000007
		48	5240	5,239.99994	0.00000001
		52	5260	5,259.99971	0.00000006
		60	5300	5,299.99936	0.00000012
		64	5320	5,319.99969	0.00000006
		100	5500	5,499.99974	0.00000005
		116	5580	5,579.99985	0.00000003
		140	5700	5,699.99970	0.00000005
		149	5745	5,744.99929	0.00000012
		157	5785	5,784.99996	0.00000001
		165	5825	5,824.99939	0.00000011

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25 ℃	7.66V	36	5180	5,179.97057	0.00000568
		44	5220	5,219.99921	0.00000015
		48	5240	5,239.99649	0.00000067
		52	5260	5,259.99941	0.00000011
		60	5300	5,299.99943	0.00000011
		64	5320	5,319.98453	0.00000291
		100	5500	5,499.99942	0.00000010
		116	5580	5,579.96594	0.00000610
		140	5700	5,699.97145	0.00000501
		149	5745	5,744.96531	0.00000604
		157	5785	5,784.96515	0.00000602
		165	5825	5,824.99957	0.00000007

55 ℃	8.8V	36	5180	5,179.99995	0.00000001
		44	5220	5,219.99977	0.00000004
		48	5240	5,239.99933	0.00000013
		52	5260	5,259.99948	0.00000010
		60	5300	5,299.99930	0.00000013
		64	5320	5,319.99991	0.00000002
		100	5500	5,499.99962	0.00000007
		116	5580	5,579.99989	0.00000002
		140	5700	5,699.99985	0.00000003
		149	5745	5,744.99997	0.00000001
		157	5785	5,784.99943	0.00000010
		165	5825	5,824.99939	0.00000010
	6.894V	36	5180	5,179.99964	0.00000007
		44	5220	5,219.99925	0.00000014
		48	5240	5,239.99981	0.00000004
		52	5260	5,259.99967	0.00000006
		60	5300	5,299.99910	0.00000017
		64	5320	5,319.99929	0.00000013
		100	5500	5,499.99994	0.00000001
		116	5580	5,579.99988	0.00000002
		140	5700	5,699.99943	0.00000010
		149	5745	5,744.99987	0.00000002
		157	5785	5,784.99924	0.00000013
		165	5825	5,824.99962	0.00000006

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Operation Mode	802.11 n_HT40	Test Date	2018.02.23
Temperature	:20 ℃	Test By	Henry
Humidity	:57 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20 ℃	8.8V	38	5190	5,189.96807	0.00000615
		46	5230	5,229.98256	0.00000334
		54	5270	5,269.96744	0.00000618
		62	5310	5,309.99991	0.00000002
		102	5510	5,509.99928	0.00000013
		110	5550	5,549.96582	0.00000616
		134	5670	5,669.99932	0.00000012
		142	5710	5,709.99806	0.00000034
		151	5755	5,754.96494	0.00000609
		159	5795	5,794.97884	0.00000365
	6.894V	38	5190	5,189.96831	0.00000611
		46	5230	5,229.98286	0.00000328
		54	5270	5,269.96755	0.00000616
		62	5310	5,309.99962	0.00000007
		102	5510	5,509.99946	0.00000010
		110	5550	5,549.96630	0.00000607
		134	5670	5,669.99918	0.00000015
		142	5710	5,709.99799	0.00000035
		151	5755	5,754.96465	0.00000614
		159	5795	5,794.97890	0.00000364

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25 ℃	7.66V	38	5190	5,189.96801	0.00000616
		46	5230	5,229.98222	0.00000340
		54	5270	5,269.96791	0.00000609
		62	5310	5,309.99988	0.00000002
		102	5510	5,509.99970	0.00000005
		110	5550	5,549.96612	0.00000610
		134	5670	5,669.99950	0.00000009
		142	5710	5,709.99791	0.00000037
		151	5755	5,754.96487	0.00000611
		159	5795	5,794.97928	0.00000357
55 ℃	8.8V	38	5190	5,189.96785	0.00000619
		46	5230	5,229.98252	0.00000334
		54	5270	5,269.96789	0.00000609
		62	5310	5,309.99930	0.00000013
		102	5510	5,509.99893	0.00000019
		110	5550	5,549.96624	0.00000608
		134	5670	5,669.99937	0.00000011
		142	5710	5,709.99802	0.00000035
		151	5755	5,754.96465	0.00000614
		159	5795	5,794.97937	0.00000356
	6.894V	38	5190	5,189.96839	0.00000609
		46	5230	5,229.98292	0.00000327
		54	5270	5,269.96705	0.00000625
		62	5310	5,309.99977	0.00000004
		102	5510	5,509.99922	0.00000014
		110	5550	5,549.96604	0.00000612
		134	5670	5,669.99961	0.00000007
		142	5710	5,709.99802	0.00000035
		151	5755	5,754.96525	0.00000604
		159	5795	5,794.97935	0.00000356

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Operation Mode	802.11 ac_VHT80	Test Date	2018.02.23
Temperature	:20 °C	Test By	Henry
Humidity	:57 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20 °C	8.8V	42	5210	5,209.99916	0.00000016
		58	5290	5,289.99925	0.00000014
		106	5530	5,529.99971	0.00000005
		122	5610	5,609.99867	0.00000024
		138	5690	5,689.99884	0.00000020
		155	5775	5,774.99919	0.00000014
	6.894V	42	5210	5,209.99874	0.00000024
		58	5290	5,289.99888	0.00000021
		106	5530	5,529.99961	0.00000007
		122	5610	5,609.99853	0.00000026
		138	5690	5,689.99852	0.00000026
		155	5775	5,774.99881	0.00000021
25 °C	7.66V	42	5210	5,209.99910	0.00000017
		58	5290	5,289.99938	0.00000012
		106	5530	5,529.99969	0.00000006
		122	5610	5,609.99875	0.00000022
		138	5690	5,689.99906	0.00000016
		155	5775	5,774.99934	0.00000012
55 °C	8.8V	42	5210	5,209.99906	0.00000018
		58	5290	5,289.99942	0.00000011
		106	5530	5,529.99917	0.00000015
		122	5610	5,609.99857	0.00000025
		138	5690	5,689.99865	0.00000024
		155	5775	5,774.99943	0.00000010
	6.894V	42	5210	5,209.99896	0.00000020
		58	5290	5,289.99960	0.00000008
		106	5530	5,529.99989	0.00000002
		122	5610	5,609.99874	0.00000022
		138	5690	5,689.99884	0.00000020
		155	5775	5,774.99904	0.00000017

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5 Minutes:

Operation Mode	802.11 a	Test Date	2018.02.23
Temperature	:20 ℃	Test By	Henry
Humidity	:57 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20 ℃	8.8V	36	5180	5,179.99912	0.00000017
		44	5220	5,219.99919	0.00000015
		48	5240	5,239.99935	0.00000012
		52	5260	5,259.99912	0.00000017
		60	5300	5,299.99989	0.00000002
		64	5320	5,319.99952	0.00000009
		100	5500	5,499.99922	0.00000014
		116	5580	5,579.99960	0.00000007
		140	5700	5,699.99973	0.00000005
		149	5745	5,744.99989	0.00000002
		157	5785	5,784.99947	0.00000009
		165	5825	5,824.99997	0.00000001
	6.894V	36	5180	5,179.99950	0.00000010
		44	5220	5,219.99912	0.00000017
		48	5240	5,239.99927	0.00000014
		52	5260	5,259.99978	0.00000004
		60	5300	5,299.99941	0.00000011
		64	5320	5,319.99937	0.00000012
		100	5500	5,499.99919	0.00000015
		116	5580	5,579.99929	0.00000013
		140	5700	5,699.99930	0.00000012
		149	5745	5,744.99986	0.00000002
		157	5785	5,784.99975	0.00000004
		165	5825	5,824.99966	0.00000006

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25 ℃	7.66V	36	5180	5,179.97070	0.00000566
		44	5220	5,219.99958	0.00000008
		48	5240	5,239.99674	0.00000062
		52	5260	5,259.99957	0.00000008
		60	5300	5,299.99967	0.00000006
		64	5320	5,319.98413	0.00000298
		100	5500	5,499.99931	0.00000012
		116	5580	5,579.96608	0.00000608
		140	5700	5,699.97136	0.00000503
		149	5745	5,744.96586	0.00000594
		157	5785	5,784.96490	0.00000607
		165	5825	5,824.99912	0.00000015

55 ℃	8.8V	36	5180	5,179.99930	0.00000014
		44	5220	5,219.99975	0.00000005
		48	5240	5,239.99974	0.00000005
		52	5260	5,259.99935	0.00000012
		60	5300	5,299.99930	0.00000013
		64	5320	5,319.99946	0.00000010
		100	5500	5,499.99967	0.00000006
		116	5580	5,579.99990	0.00000002
		140	5700	5,699.99954	0.00000008
		149	5745	5,744.99931	0.00000012
		157	5785	5,784.99964	0.00000006
		165	5825	5,824.99966	0.00000006
	6.894V	36	5180	5,179.99993	0.00000001
		44	5220	5,219.99995	0.00000001
		48	5240	5,239.99949	0.00000010
		52	5260	5,259.99969	0.00000006
		60	5300	5,299.99985	0.00000003
		64	5320	5,319.99948	0.00000010
		100	5500	5,499.99999	0.00000000
		116	5580	5,579.99991	0.00000002
		140	5700	5,699.99970	0.00000005
		149	5745	5,744.99921	0.00000014
		157	5785	5,784.99944	0.00000010
		165	5825	5,824.99939	0.00000011

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Operation Mode	802.11 n_HT40	Test Date	2018.02.23
Temperature	:20 ℃	Test By	Henry
Humidity	:57 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20 ℃	8.8V	38	5190	5,189.96861	0.00000605
		46	5230	5,229.98284	0.00000328
		54	5270	5,269.96733	0.00000620
		62	5310	5,309.99913	0.00000016
		102	5510	5,509.99947	0.00000010
		110	5550	5,549.96604	0.00000612
		134	5670	5,669.99928	0.00000013
		142	5710	5,709.99760	0.00000042
		151	5755	5,754.96479	0.00000612
		159	5795	5,794.97903	0.00000362
	6.894V	38	5190	5,189.96824	0.00000612
		46	5230	5,229.98267	0.00000331
		54	5270	5,269.96744	0.00000618
		62	5310	5,309.99960	0.00000008
		102	5510	5,509.99896	0.00000019
		110	5550	5,549.96579	0.00000616
		134	5670	5,669.99943	0.00000010
		142	5710	5,709.99787	0.00000037
		151	5755	5,754.96474	0.00000613
		159	5795	5,794.97870	0.00000368

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25 ℃	7.66V	38	5190	5,189.96828	0.00000611
		46	5230	5,229.98282	0.00000329
		54	5270	5,269.96745	0.00000618
		62	5310	5,309.99989	0.00000002
		102	5510	5,509.99972	0.00000005
		110	5550	5,549.96626	0.00000608
		134	5670	5,669.99965	0.00000006
		142	5710	5,709.99816	0.00000032
		151	5755	5,754.96467	0.00000614
		159	5795	5,794.97932	0.00000357
55 ℃	8.8V	38	5190	5,189.96779	0.00000621
		46	5230	5,229.98228	0.00000339
		54	5270	5,269.96763	0.00000614
		62	5310	5,309.99999	0.00000000
		102	5510	5,509.99929	0.00000013
		110	5550	5,549.96588	0.00000615
		134	5670	5,669.99911	0.00000016
		142	5710	5,709.99829	0.00000030
		151	5755	5,754.96530	0.00000603
		159	5795	5,794.97943	0.00000355
	6.894V	38	5190	5,189.96839	0.00000609
		46	5230	5,229.98217	0.00000341
		54	5270	5,269.96715	0.00000623
		62	5310	5,309.99934	0.00000012
		102	5510	5,509.99927	0.00000013
		110	5550	5,549.96571	0.00000618
		134	5670	5,669.99967	0.00000006
		142	5710	5,709.99785	0.00000038
		151	5755	5,754.96524	0.00000604
		159	5795	5,794.97903	0.00000362

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Operation Mode	802.11 ac_VHT80	Test Date	2018.02.23
Temperature	:20 °C	Test By	Henry
Humidity	:57 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20 °C	8.8V	42	5210	5,209.99916	0.00000016
		58	5290	5,289.99925	0.00000014
		106	5530	5,529.99971	0.00000005
		122	5610	5,609.99867	0.00000024
		138	5690	5,689.99884	0.00000020
		155	5775	5,774.99919	0.00000014
	6.894V	42	5210	5,209.99874	0.00000024
		58	5290	5,289.99888	0.00000021
		106	5530	5,529.99961	0.00000007
		122	5610	5,609.99853	0.00000026
		138	5690	5,689.99852	0.00000026
		155	5775	5,774.99881	0.00000021
25 °C	7.66V	42	5210	5,209.99910	0.00000017
		58	5290	5,289.99938	0.00000012
		106	5530	5,529.99969	0.00000006
		122	5610	5,609.99875	0.00000022
		138	5690	5,689.99906	0.00000016
		155	5775	5,774.99934	0.00000012
55 °C	8.8V	42	5210	5,209.99906	0.00000018
		58	5290	5,289.99942	0.00000011
		106	5530	5,529.99917	0.00000015
		122	5610	5,609.99857	0.00000025
		138	5690	5,689.99865	0.00000024
		155	5775	5,774.99943	0.00000010
	6.894V	42	5210	5,209.99896	0.00000020
		58	5290	5,289.99960	0.00000008
		106	5530	5,529.99989	0.00000002
		122	5610	5,609.99874	0.00000022
		138	5690	5,689.99884	0.00000020
		155	5775	5,774.99904	0.00000017

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10 Minutes:

Operation Mode	802.11 a	Test Date	2018.02.23
Temperature	:20 ℃	Test By	Henry
Humidity	:57 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20 ℃	8.8V	36	5180	5,179.99937	0.00000012
		44	5220	5,219.99990	0.00000002
		48	5240	5,239.99994	0.00000001
		52	5260	5,259.99934	0.00000013
		60	5300	5,299.99963	0.00000007
		64	5320	5,319.99923	0.00000014
		100	5500	5,499.99938	0.00000011
		116	5580	5,579.99921	0.00000014
		140	5700	5,699.99989	0.00000002
		149	5745	5,744.99937	0.00000011
		157	5785	5,784.99949	0.00000009
		165	5825	5,824.99976	0.00000004
	6.894V	36	5180	5,179.99948	0.00000010
		44	5220	5,219.99967	0.00000006
		48	5240	5,239.99925	0.00000014
		52	5260	5,259.99927	0.00000014
		60	5300	5,299.99933	0.00000013
		64	5320	5,319.99919	0.00000015
		100	5500	5,499.99966	0.00000006
		116	5580	5,579.99924	0.00000014
		140	5700	5,699.99934	0.00000012
		149	5745	5,744.99975	0.00000004
		157	5785	5,784.99913	0.00000015
		165	5825	5,824.99922	0.00000013

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25 ℃	7.66V	36	5180	5,179.97098	0.00000560
		44	5220	5,219.99949	0.00000010
		48	5240	5,239.99694	0.00000058
		52	5260	5,259.99924	0.00000014
		60	5300	5,299.99970	0.00000006
		64	5320	5,319.98443	0.00000293
		100	5500	5,499.99944	0.00000010
		116	5580	5,579.96620	0.00000606
		140	5700	5,699.97121	0.00000505
		149	5745	5,744.96508	0.00000608
		157	5785	5,784.96484	0.00000608
		165	5825	5,824.99926	0.00000013

55 ℃	8.8V	36	5180	5,179.99970	0.00000006
		44	5220	5,219.99973	0.00000005
		48	5240	5,239.99914	0.00000016
		52	5260	5,259.99945	0.00000010
		60	5300	5,299.99943	0.00000011
		64	5320	5,319.99980	0.00000004
		100	5500	5,499.99918	0.00000015
		116	5580	5,579.99969	0.00000006
		140	5700	5,699.99947	0.00000009
		149	5745	5,744.99971	0.00000005
		157	5785	5,784.99916	0.00000014
		165	5825	5,824.99922	0.00000013
	6.894V	36	5180	5,179.99921	0.00000015
		44	5220	5,219.99942	0.00000011
		48	5240	5,239.99971	0.00000006
		52	5260	5,259.99951	0.00000009
		60	5300	5,299.99909	0.00000017
		64	5320	5,319.99955	0.00000008
		100	5500	5,499.99938	0.00000011
		116	5580	5,579.99993	0.00000001
		140	5700	5,699.99993	0.00000001
		149	5745	5,744.99921	0.00000014
		157	5785	5,784.99959	0.00000007
		165	5825	5,824.99950	0.00000009

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Operation Mode	802.11 n_HT40	Test Date	2018.02.23
Temperature	:20 ℃	Test By	Henry
Humidity	:57 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20 ℃	8.8V	38	5190	5,189.96812	0.00000614
		46	5230	5,229.98274	0.00000330
		54	5270	5,269.96745	0.00000618
		62	5310	5,309.99980	0.00000004
		102	5510	5,509.99893	0.00000019
		110	5550	5,549.96629	0.00000607
		134	5670	5,669.99935	0.00000012
		142	5710	5,709.99824	0.00000031
		151	5755	5,754.96457	0.00000616
		159	5795	5,794.97908	0.00000361
	6.894V	38	5190	5,189.96780	0.00000620
		46	5230	5,229.98259	0.00000333
		54	5270	5,269.96725	0.00000622
		62	5310	5,309.99924	0.00000014
		102	5510	5,509.99939	0.00000011
		110	5550	5,549.96594	0.00000614
		134	5670	5,669.99941	0.00000010
		142	5710	5,709.99765	0.00000041
		151	5755	5,754.96521	0.00000605
		159	5795	5,794.97900	0.00000362

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25 ℃	7.66V	38	5190	5,189.96815	0.00000614
		46	5230	5,229.98242	0.00000336
		54	5270	5,269.96785	0.00000610
		62	5310	5,309.99941	0.00000011
		102	5510	5,509.99894	0.00000019
		110	5550	5,549.96606	0.00000611
		134	5670	5,669.99959	0.00000007
		142	5710	5,709.99822	0.00000031
		151	5755	5,754.96518	0.00000605
		159	5795	5,794.97915	0.00000360
55 ℃	8.8V	38	5190	5,189.96784	0.00000620
		46	5230	5,229.98246	0.00000335
		54	5270	5,269.96731	0.00000620
		62	5310	5,309.99949	0.00000010
		102	5510	5,509.99957	0.00000008
		110	5550	5,549.96601	0.00000612
		134	5670	5,669.99982	0.00000003
		142	5710	5,709.99766	0.00000041
		151	5755	5,754.96532	0.00000603
		159	5795	5,794.97882	0.00000366
	6.894V	38	5190	5,189.96817	0.00000613
		46	5230	5,229.98279	0.00000329
		54	5270	5,269.96714	0.00000624
		62	5310	5,309.99988	0.00000002
		102	5510	5,509.99962	0.00000007
		110	5550	5,549.96610	0.00000611
		134	5670	5,669.99952	0.00000008
		142	5710	5,709.99808	0.00000034
		151	5755	5,754.96467	0.00000614
		159	5795	5,794.97879	0.00000366

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Operation Mode	802.11 ac_VHT80	Test Date	2018.02.23
Temperature	:20 ℃	Test By	Henry
Humidity	:57 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20 ℃	8.8V	42	5210	5,209.99919	0.00000016
		58	5290	5,289.99925	0.00000014
		106	5530	5,529.99912	0.00000016
		122	5610	5,609.99898	0.00000018
		138	5690	5,689.99920	0.00000014
		155	5775	5,774.99879	0.00000021
	6.894V	42	5210	5,209.99927	0.00000014
		58	5290	5,289.99913	0.00000016
		106	5530	5,529.99925	0.00000014
		122	5610	5,609.99881	0.00000021
		138	5690	5,689.99884	0.00000020
		155	5775	5,774.99934	0.00000011
25 ℃	7.66V	42	5210	5,209.99876	0.00000024
		58	5290	5,289.99899	0.00000019
		106	5530	5,529.99904	0.00000017
		122	5610	5,609.99871	0.00000023
		138	5690	5,689.99894	0.00000019
		155	5775	5,774.99901	0.00000017
55 ℃	8.8V	42	5210	5,209.99888	0.00000022
		58	5290	5,289.99949	0.00000010
		106	5530	5,529.99980	0.00000004
		122	5610	5,609.99867	0.00000024
		138	5690	5,689.99854	0.00000026
		155	5775	5,774.99876	0.00000021
	6.894V	42	5210	5,209.99846	0.00000029
		58	5290	5,289.99907	0.00000018
		106	5530	5,529.99943	0.00000010
		122	5610	5,609.99901	0.00000018
		138	5690	5,689.99881	0.00000021
		155	5775	5,774.99922	0.00000014

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Operation Mode	802.11 ac_VHT80	Test Date	2018.02.23
Temperature	:20 °C	Test By	Henry
Humidity	:57 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20 °C	8.8V	42	5210	5,209.99916	0.00000016
		58	5290	5,289.99925	0.00000014
		106	5530	5,529.99971	0.00000005
		122	5610	5,609.99867	0.00000024
		138	5690	5,689.99884	0.00000020
		155	5775	5,774.99919	0.00000014
	6.894V	42	5210	5,209.99874	0.00000024
		58	5290	5,289.99888	0.00000021
		106	5530	5,529.99961	0.00000007
		122	5610	5,609.99853	0.00000026
		138	5690	5,689.99852	0.00000026
		155	5775	5,774.99881	0.00000021
25 °C	7.66V	42	5210	5,209.99910	0.00000017
		58	5290	5,289.99938	0.00000012
		106	5530	5,529.99969	0.00000006
		122	5610	5,609.99875	0.00000022
		138	5690	5,689.99906	0.00000016
		155	5775	5,774.99934	0.00000012
55 °C	8.8V	42	5210	5,209.99906	0.00000018
		58	5290	5,289.99942	0.00000011
		106	5530	5,529.99917	0.00000015
		122	5610	5,609.99857	0.00000025
		138	5690	5,689.99865	0.00000024
		155	5775	5,774.99943	0.00000010
	6.894V	42	5210	5,209.99896	0.00000020
		58	5290	5,289.99960	0.00000008
		106	5530	5,529.99989	0.00000002
		122	5610	5,609.99874	0.00000022
		138	5690	5,689.99884	0.00000020
		155	5775	5,774.99904	0.00000017

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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

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

14.2 Antenna Connected Construction

PCB antenna designs are used.

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

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

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