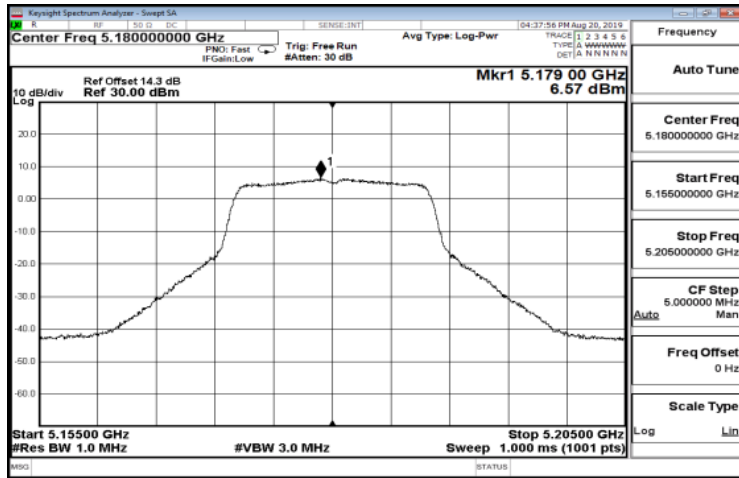
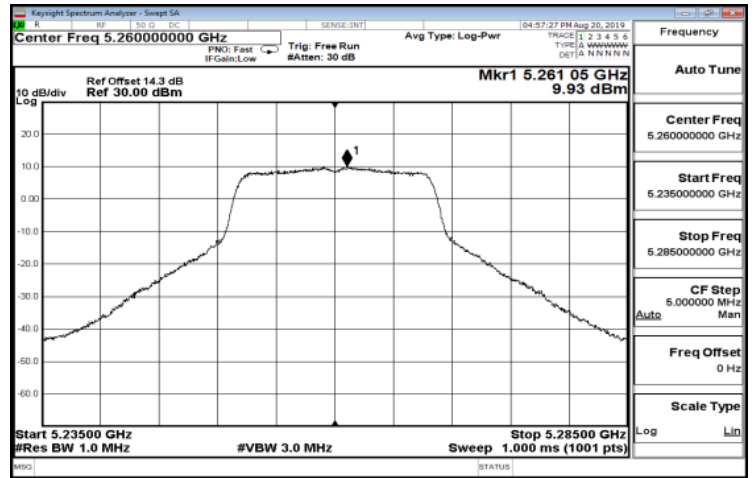


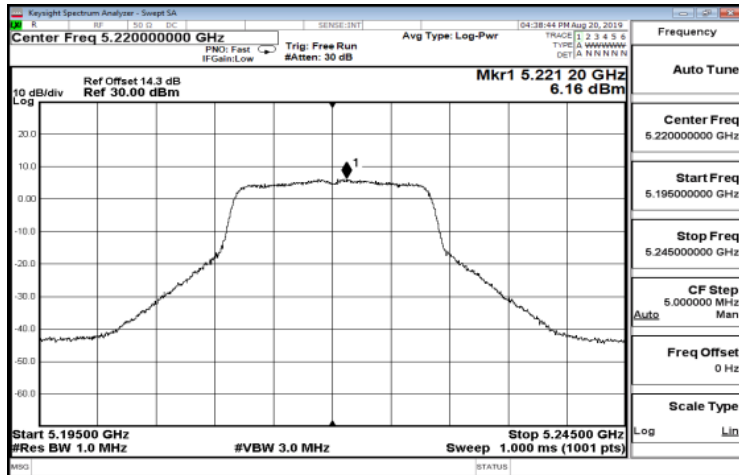
802.11a_20MHz_5180MHz



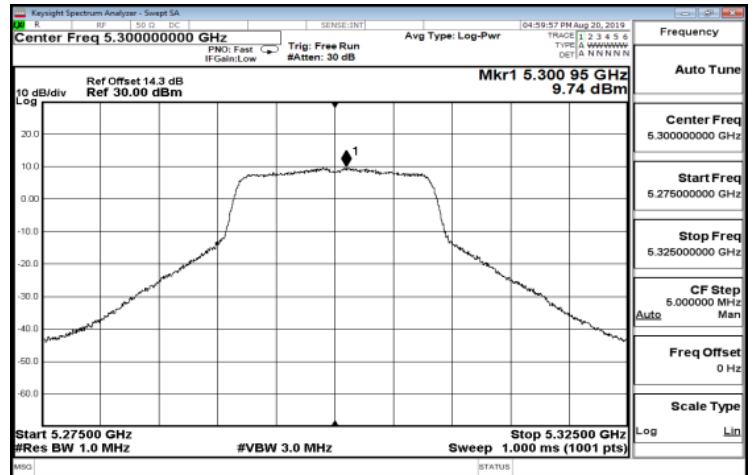
802.11a_20MHz_5260MHz



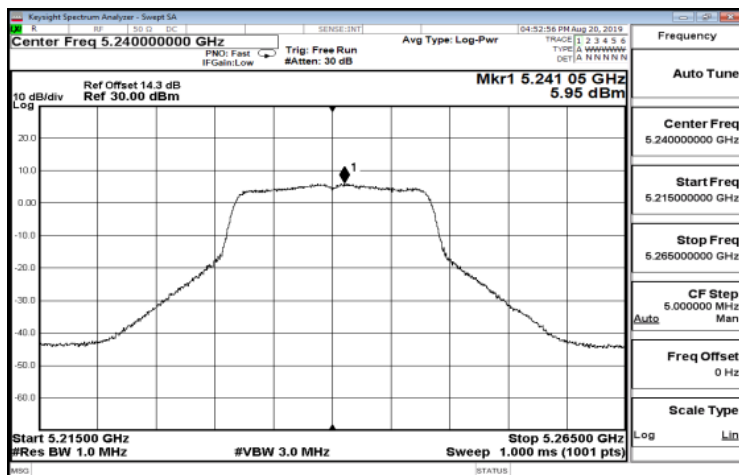
802.11a_20MHz_5220MHz



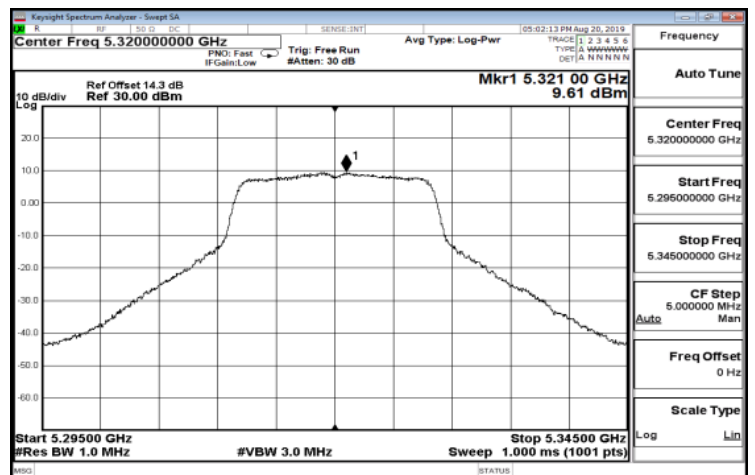
802.11a_20MHz_5300MHz



802.11a_20MHz_5240MHz



802.11a_20MHz_5320MHz

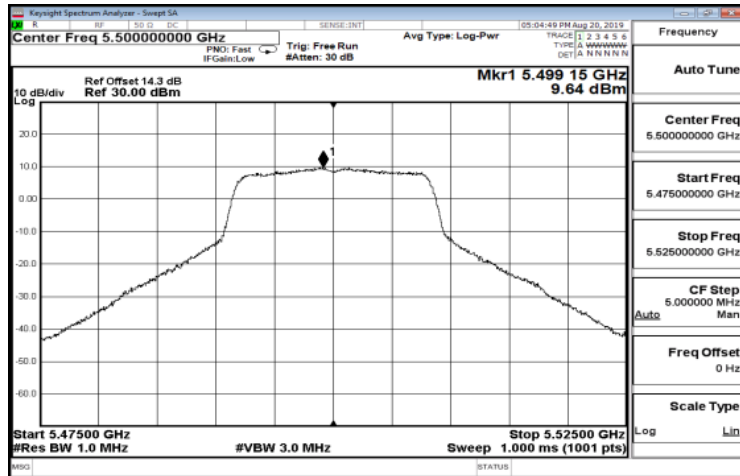


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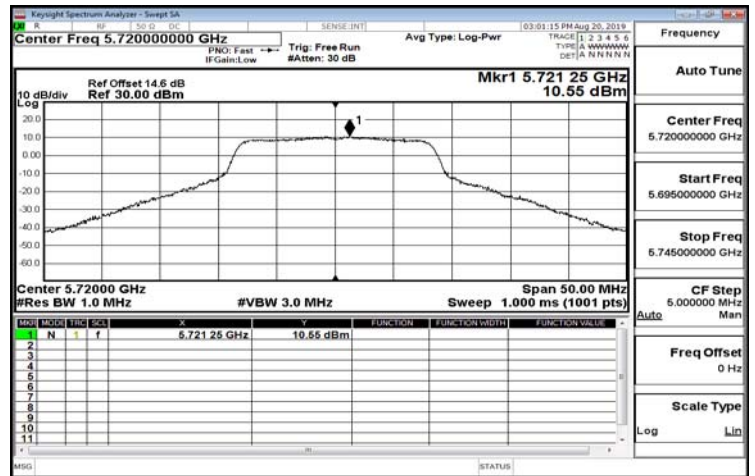
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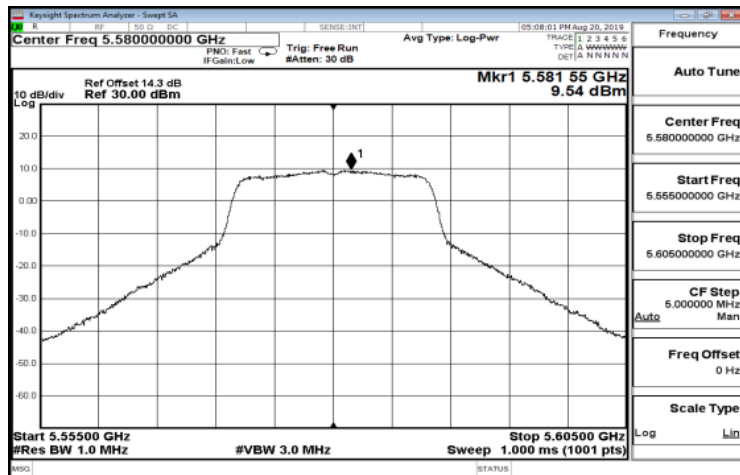
802.11a_20MHz_5500MHz



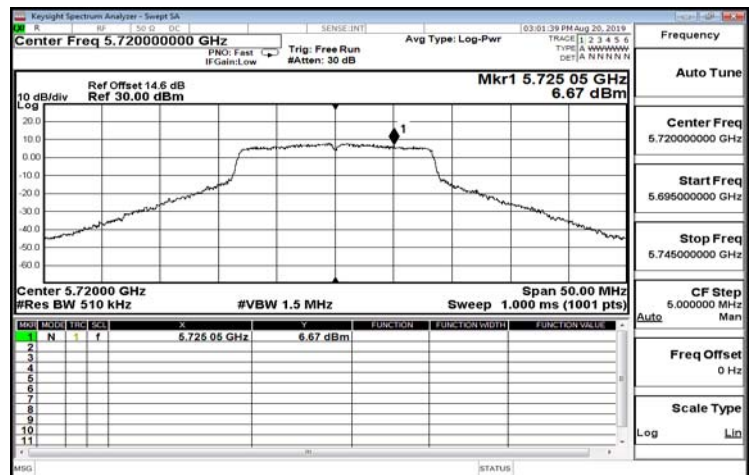
802.11a_20MHz_5720MHz (UNII 2C)



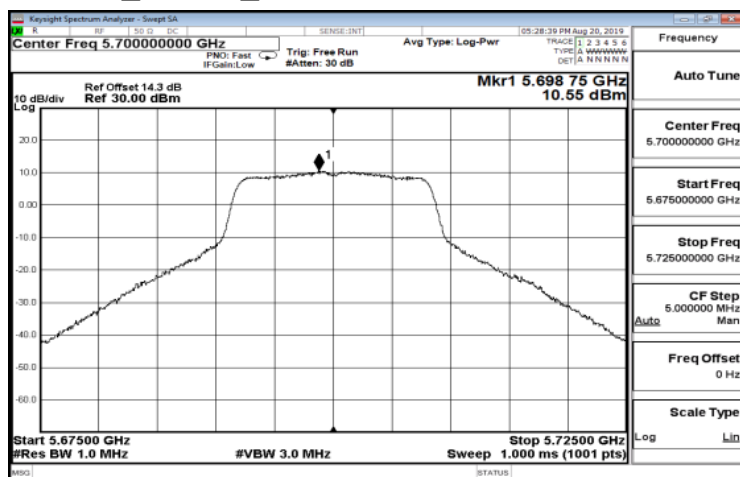
802.11a_20MHz_5580MHz



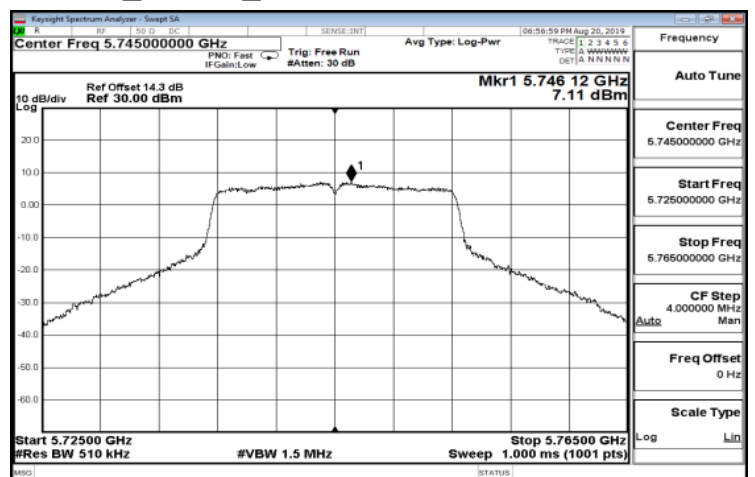
802.11a_20MHz_5720MHz (UNII 3)



802.11a_20MHz_5700MHz



802.11a_20MHz_5745MHz

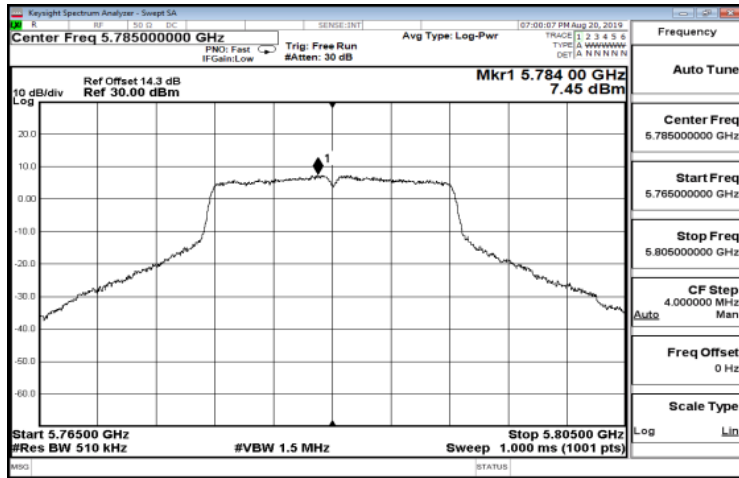


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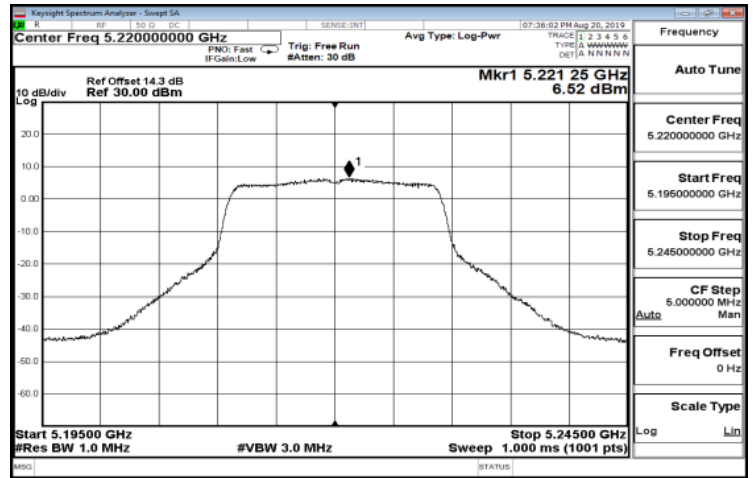
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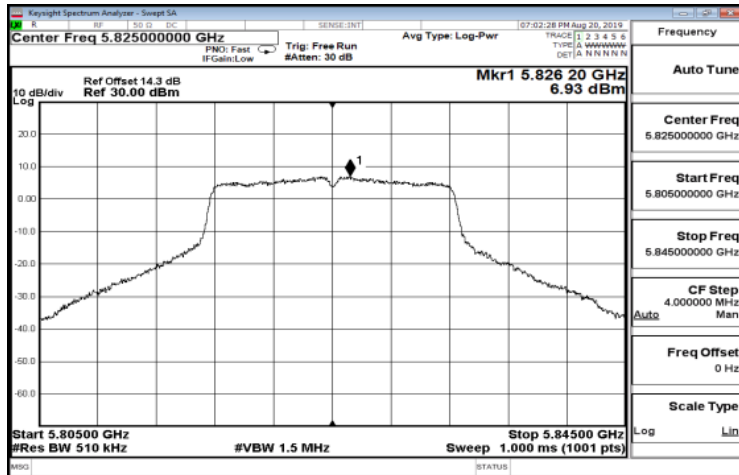
802.11a_20MHz_5785MHz



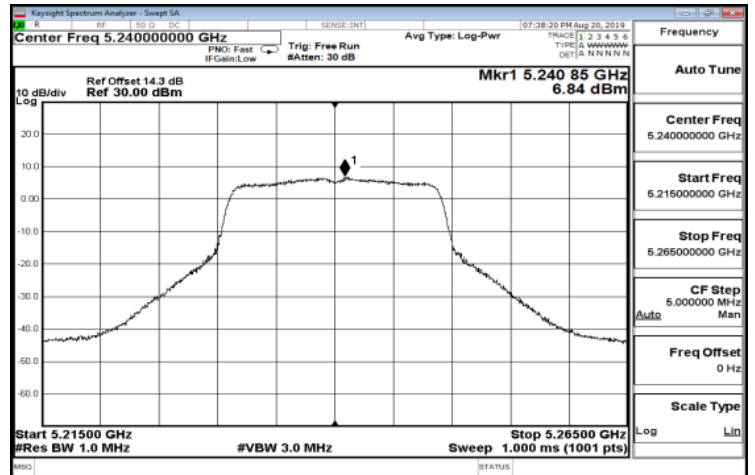
802.11n_20MHz_5220MHz



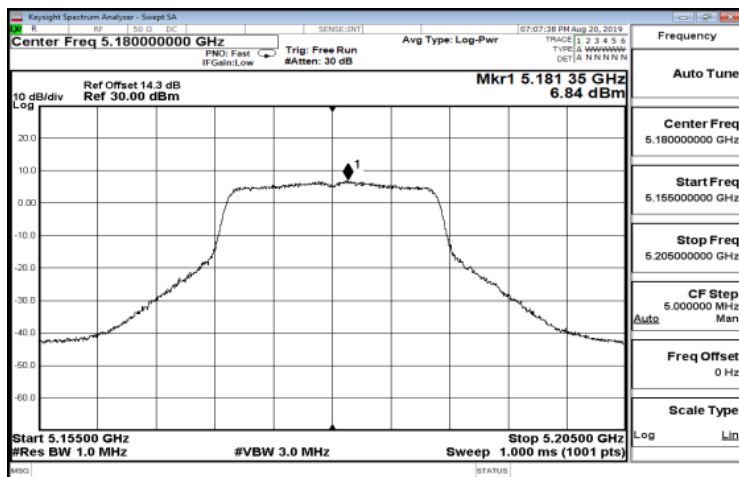
802.11a_20MHz_5825MHz



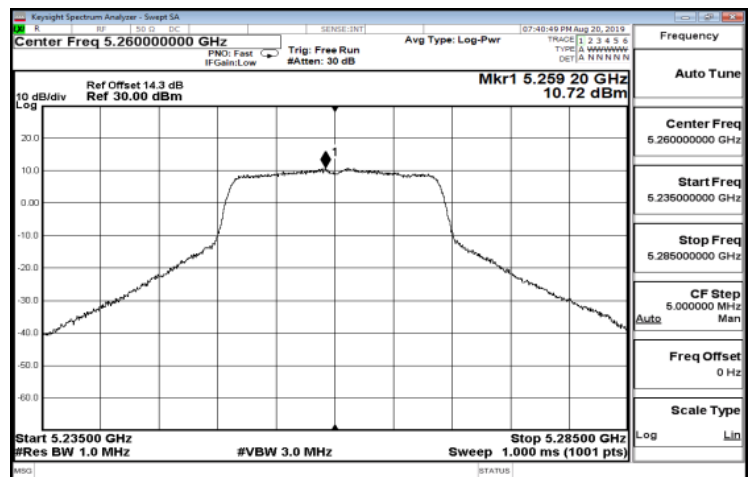
802.11n_20MHz_5240MHz



802.11n_20MHz_5180MHz



802.11n_20MHz_5260MHz

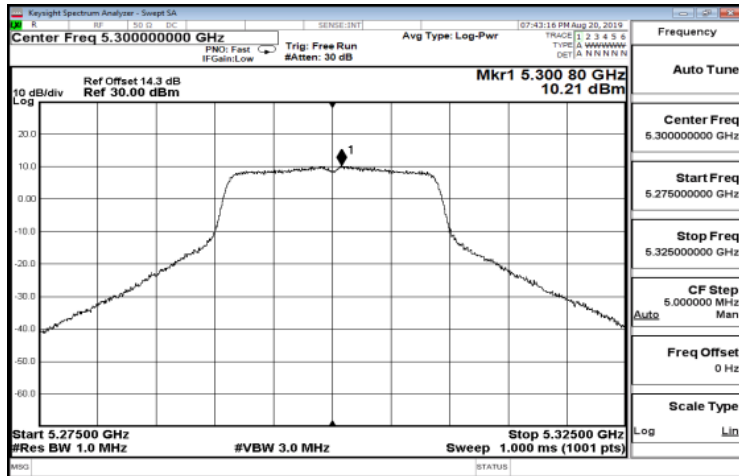


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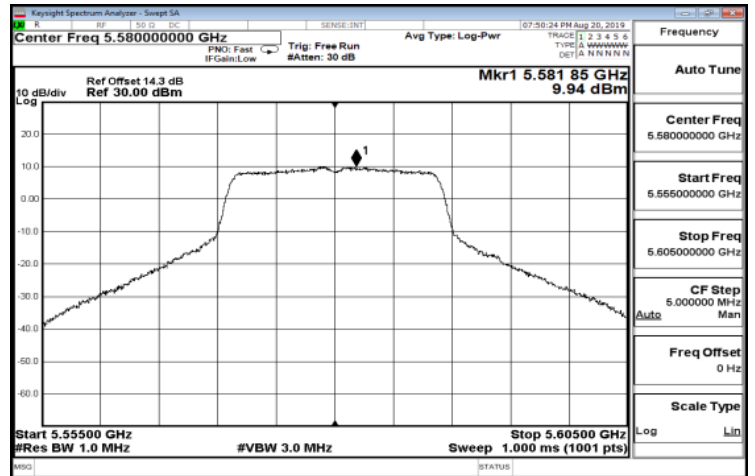
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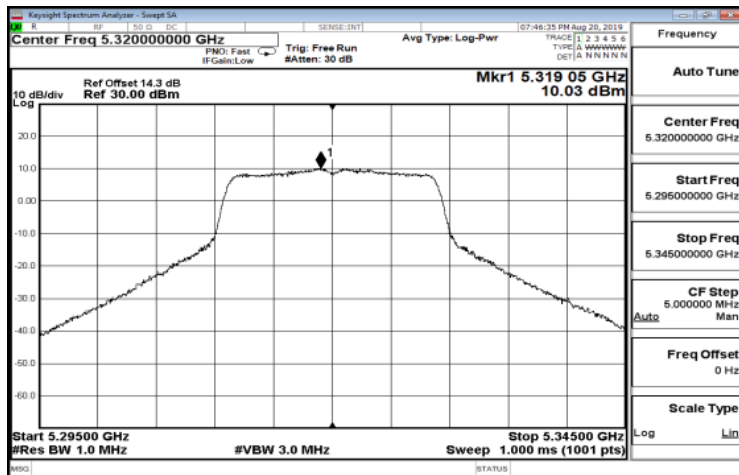
802.11n_20MHz_5300MHz



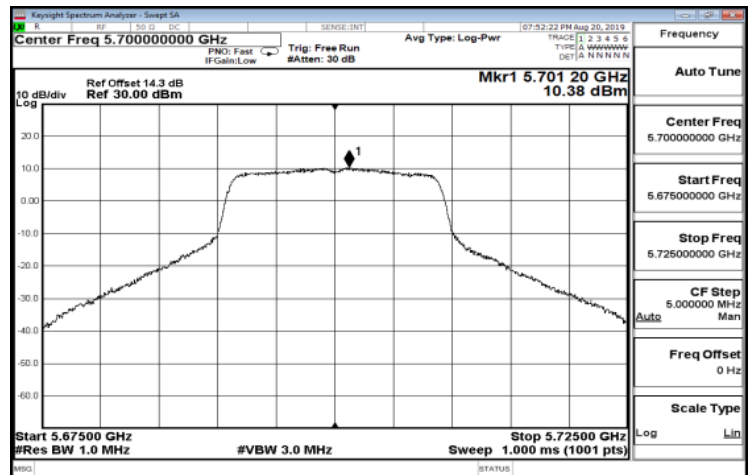
802.11n_20MHz_5580MHz



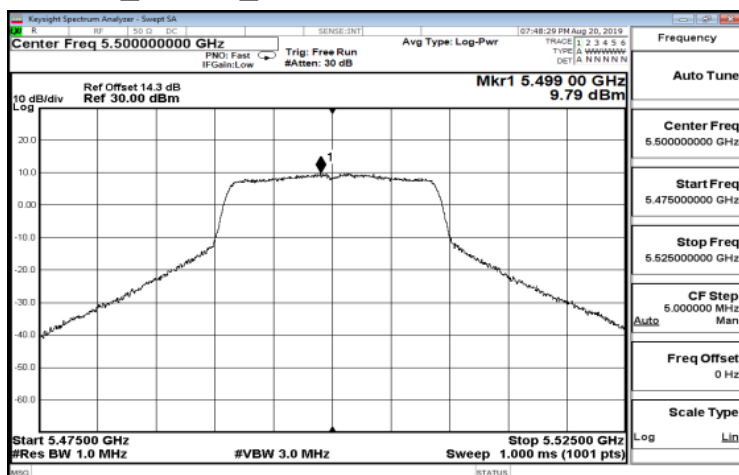
802.11n_20MHz_5320MHz



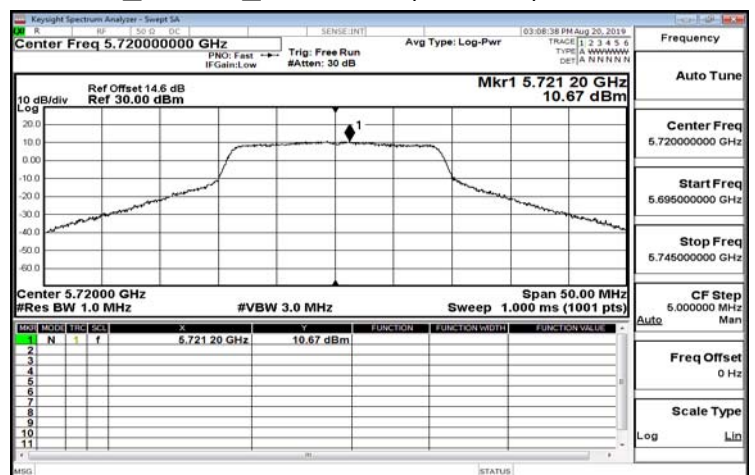
802.11n_20MHz_5700MHz



802.11n_20MHz_5500MHz



802.11n_20MHz_5720MHz (UNII 2C)

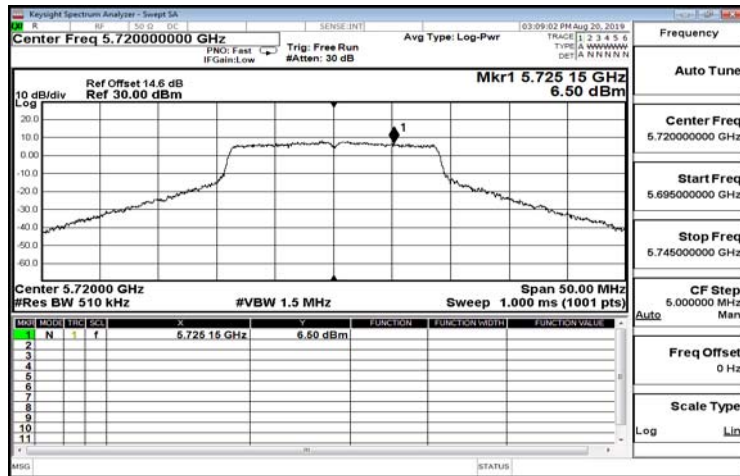


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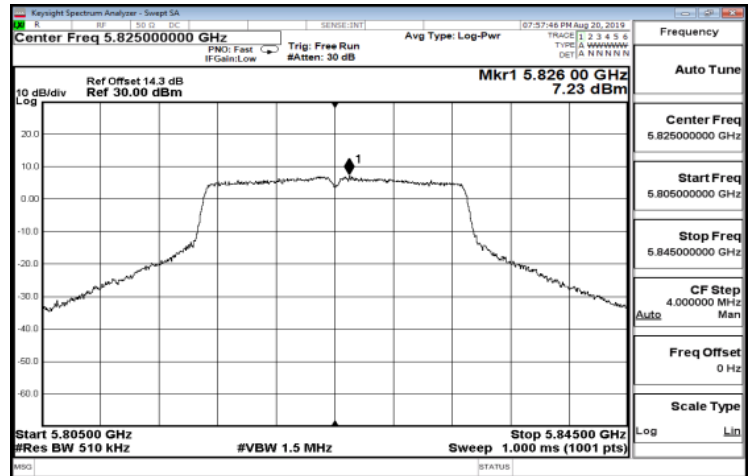
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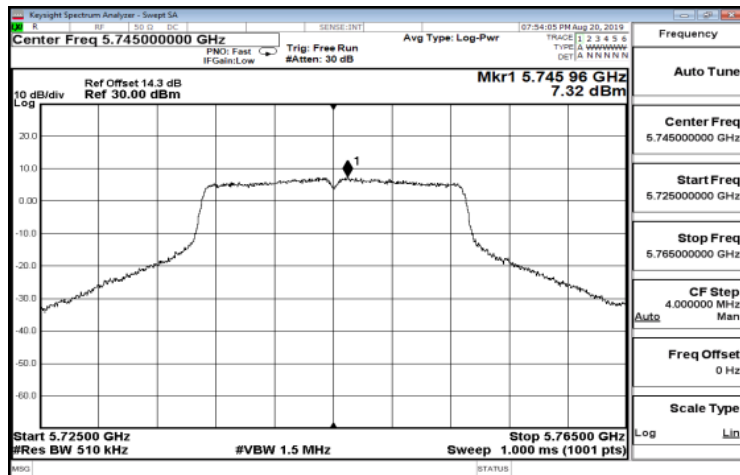
802.11n_20MHz_5720MHz (UNII 3)



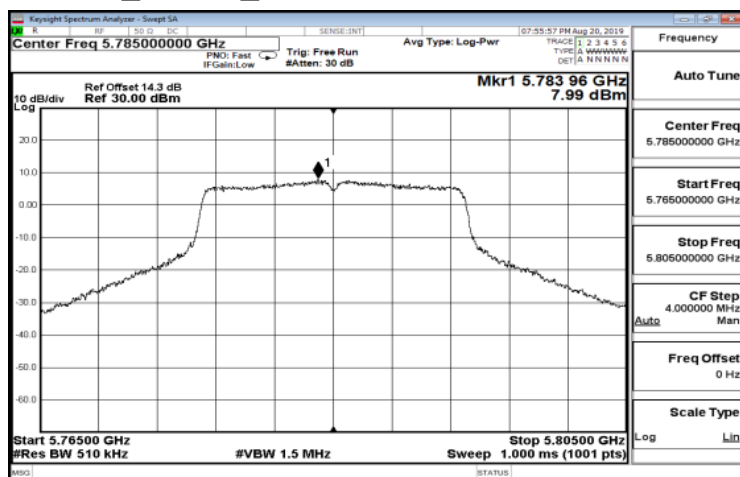
802.11n_20MHz_5825MHz



802.11n_20MHz_5745MHz



802.11n_20MHz_5785MHz

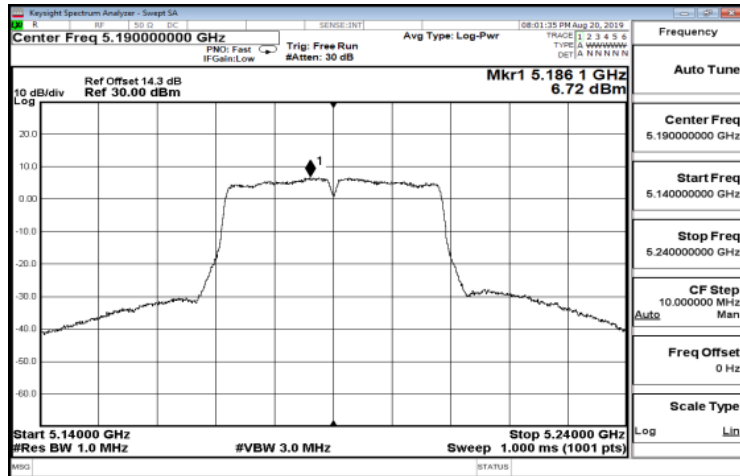


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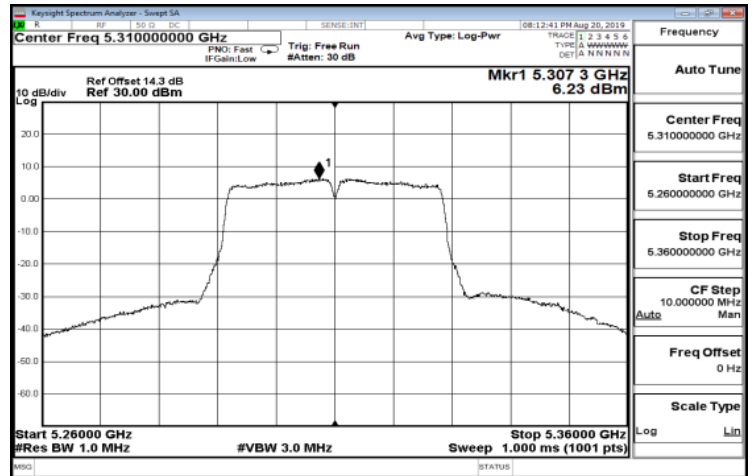
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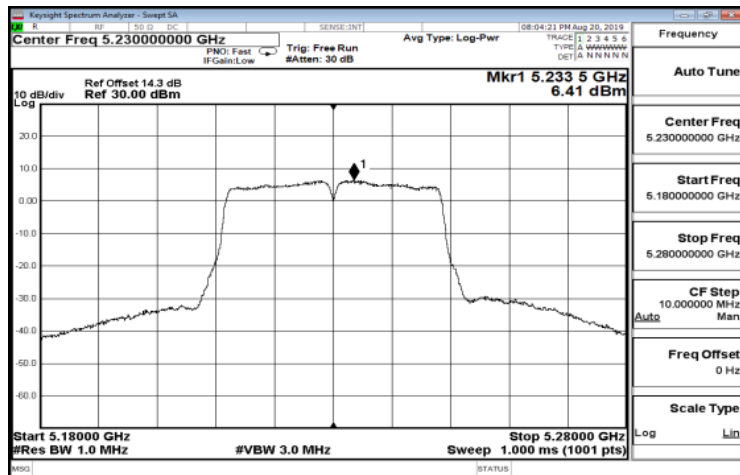
802.11n_40MHz_5190MHz



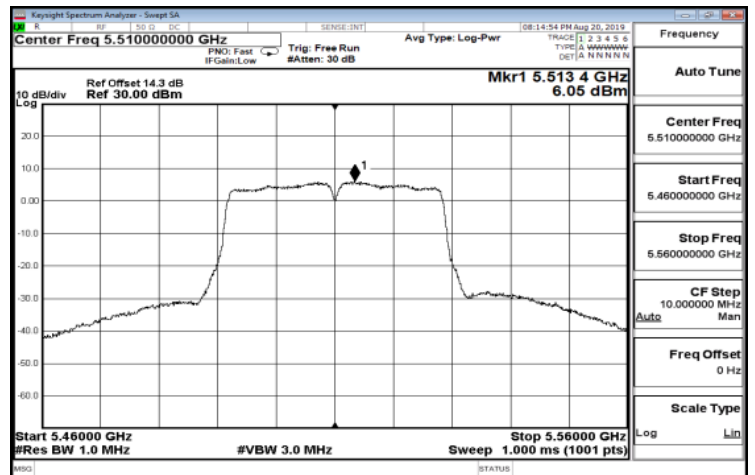
802.11n_40MHz_5310MHz



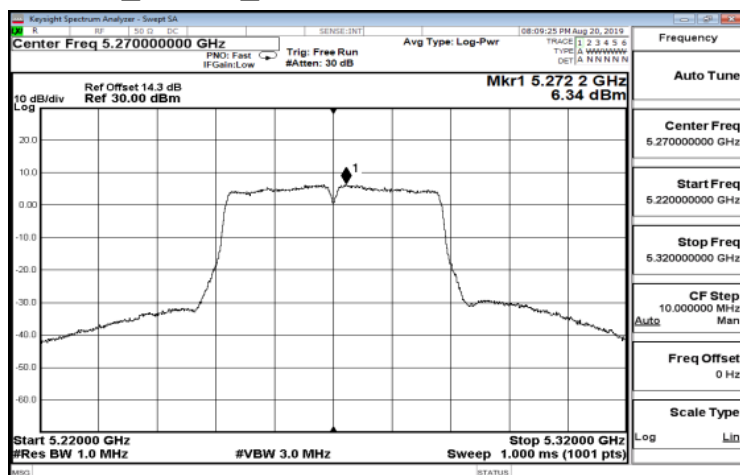
802.11n_40MHz_5230MHz



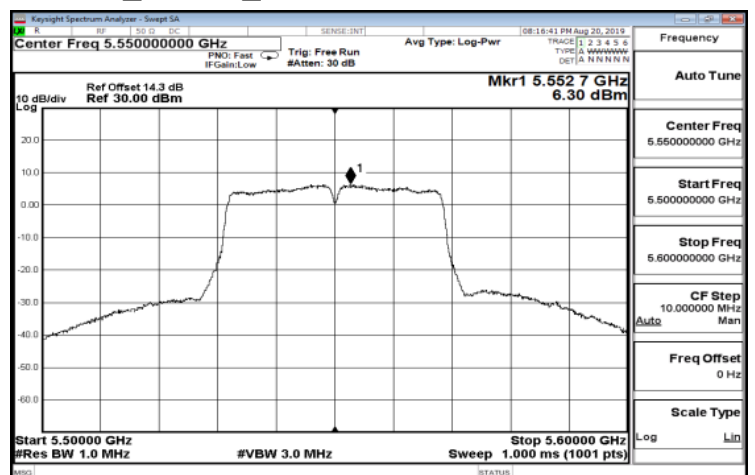
802.11n_40MHz_5510MHz



802.11n_40MHz_5270MHz



802.11n_40MHz_5550MHz

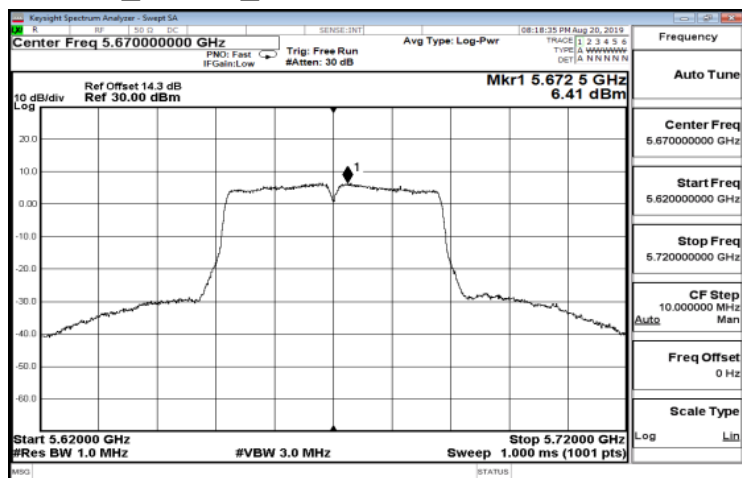


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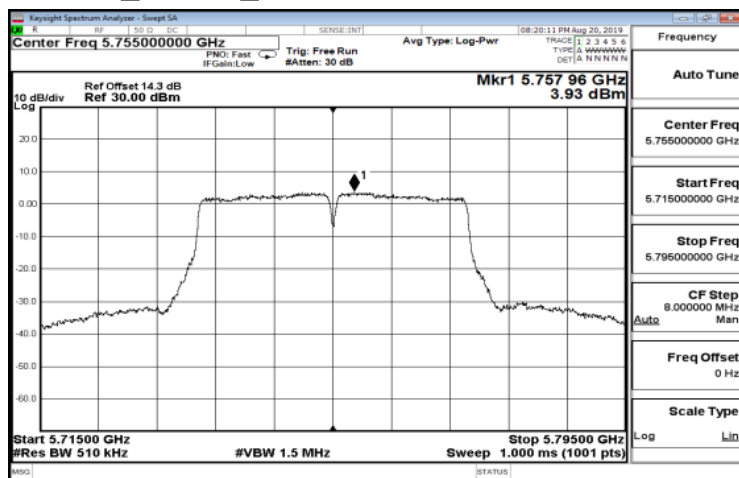
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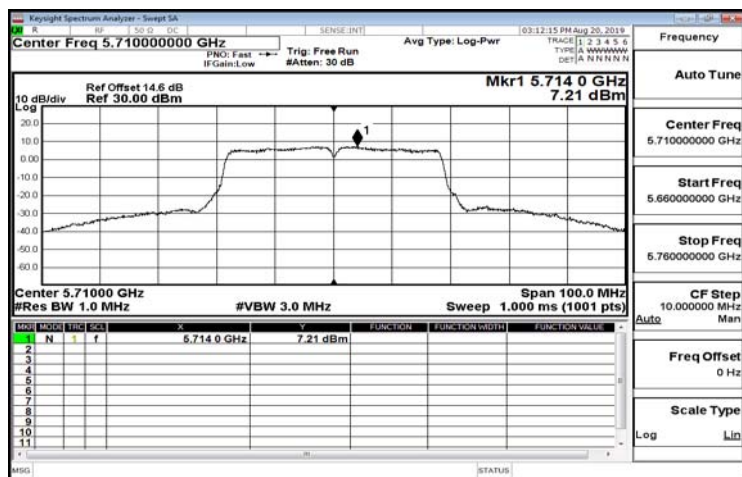
802.11n_40MHz_5670MHz



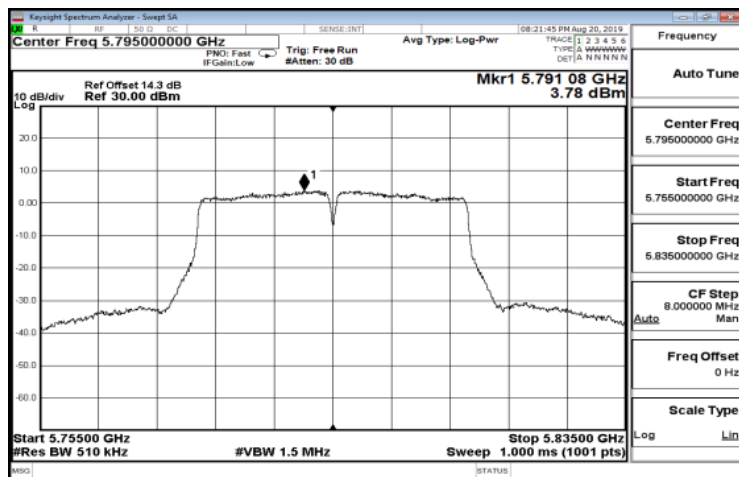
802.11n_40MHz_5755MHz



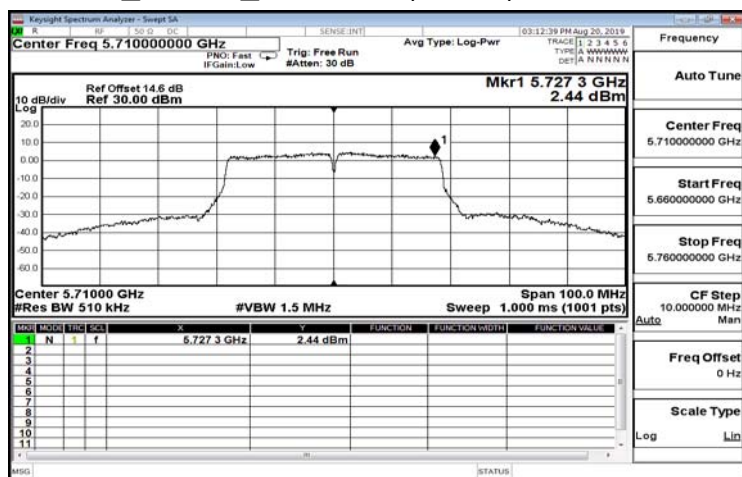
802.11n_40MHz_5710MHz (UNII 2C)



802.11n_40MHz_5795MHz



802.11n_40MHz_5710MHz (UNII 3)

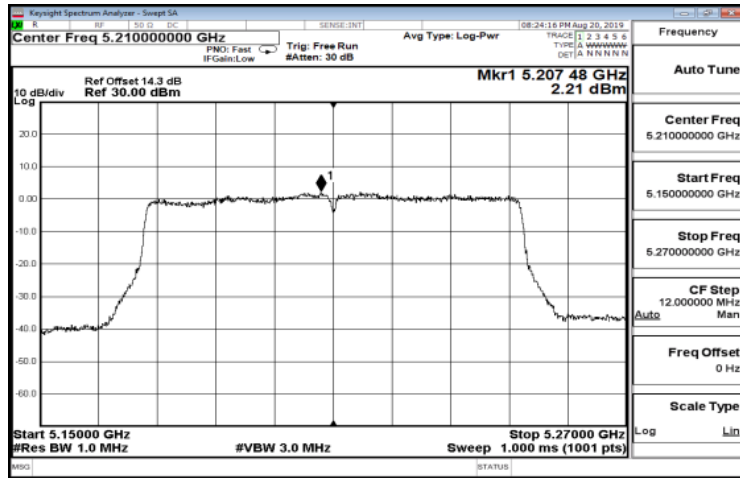


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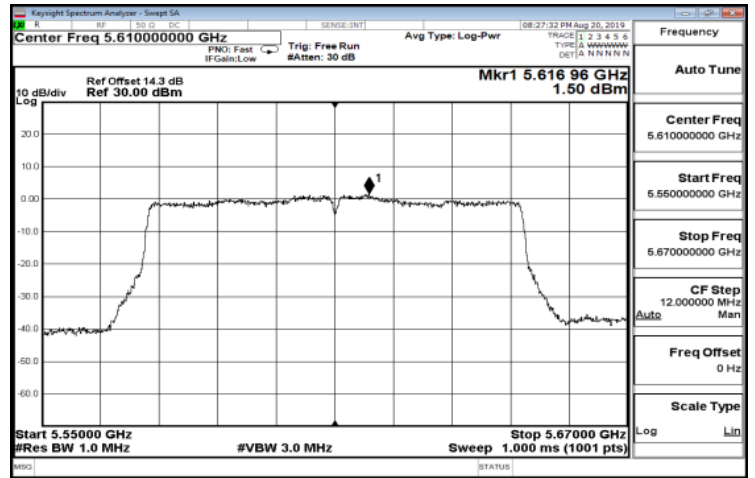
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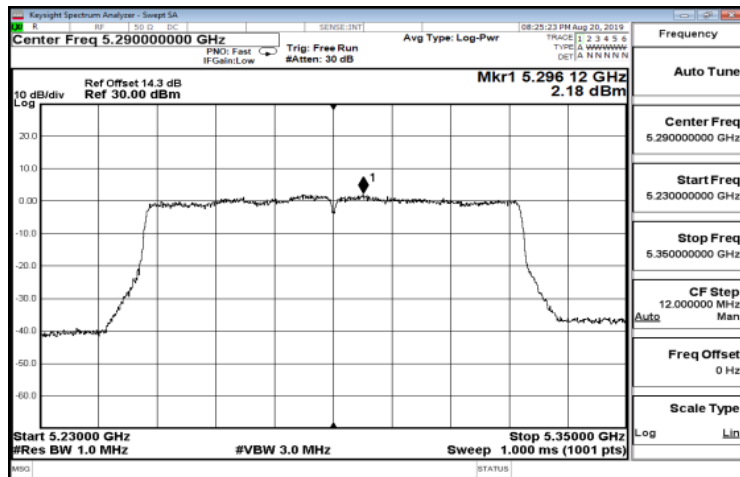
802.11ac_80MHz_5210MHz



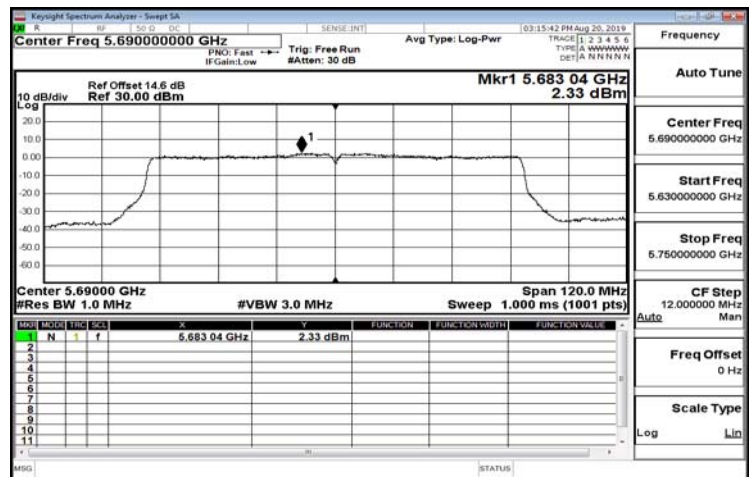
802.11ac_80MHz_5610MHz



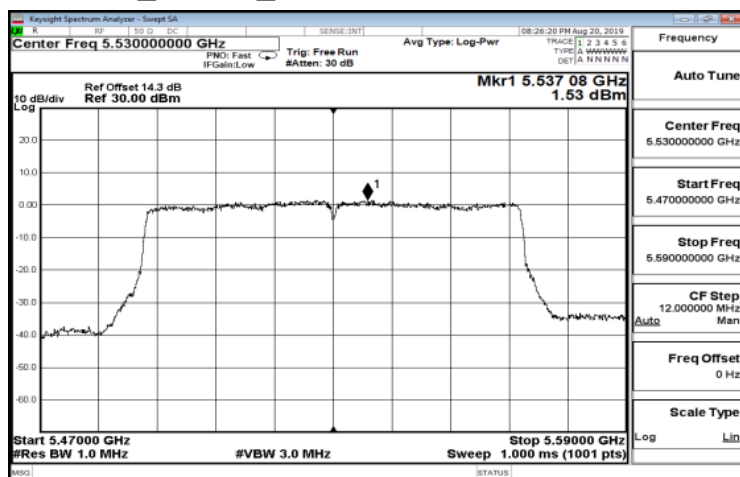
802.11ac_80MHz_5290MHz



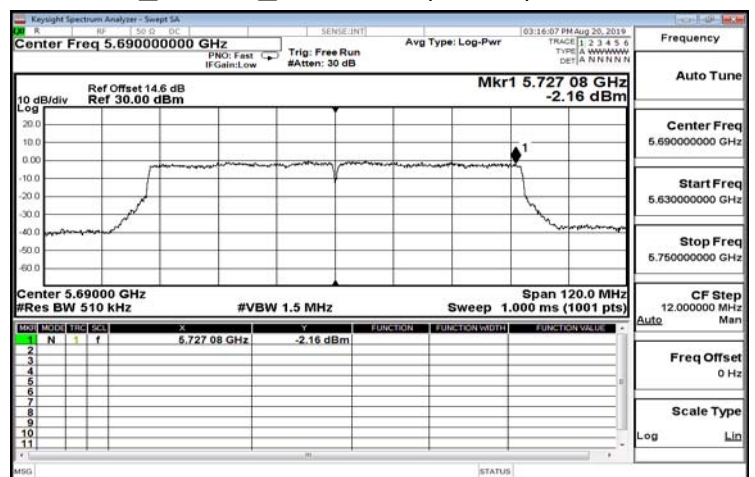
802.11ac_80MHz_5690MHz (UNII 2C)



802.11ac_80MHz_5530MHz



802.11ac_80MHz_5690MHz (UNII 3)

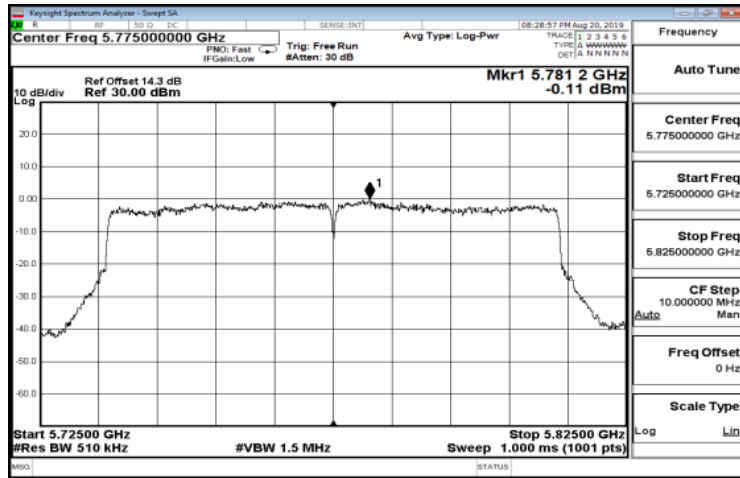


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802.11ac_80MHz_5775MHz



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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.		

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

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

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

Note:

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

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11.2 Measurement Equipment Used

966A Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bilog Antenna	Sunol Sciences	JB3	A030105	07/26/2019	07/25/2020
Cable	HUBER SU-HNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020
Cable	HUBER SU-HNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
Low Pass Filter	EWT	EWT-56-0019	RF46	02/26/2019	02/25/2020
High Pass Filter	WI	WHKX7.0/18G-8SS	45	02/26/2019	02/25/2020
Horn Antenna	SCHWARZBECK	BBHA 9120D	779	03/09/2019	03/08/2020
Loop Antenna	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	MITEQ	AMF-6F-260400-40-8P	985646	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/29/2019	05/28/2020
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 V6.11-20180413				

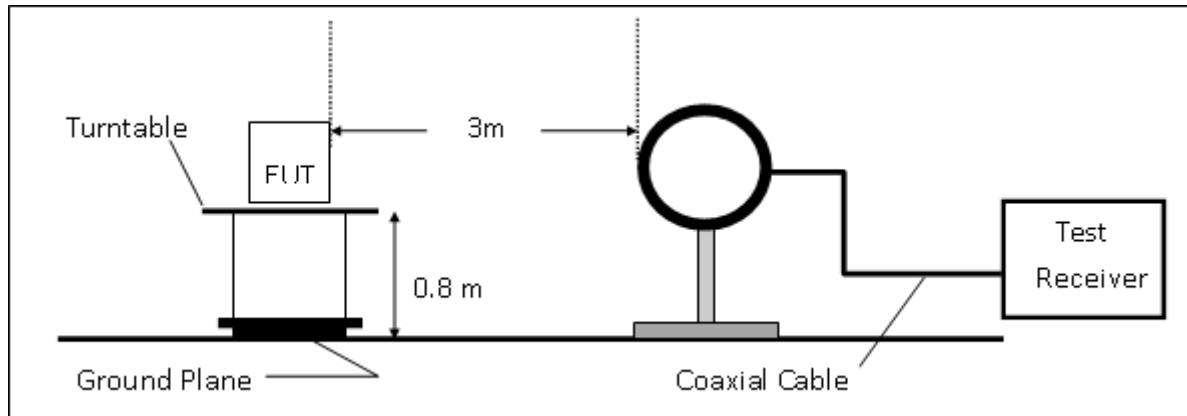
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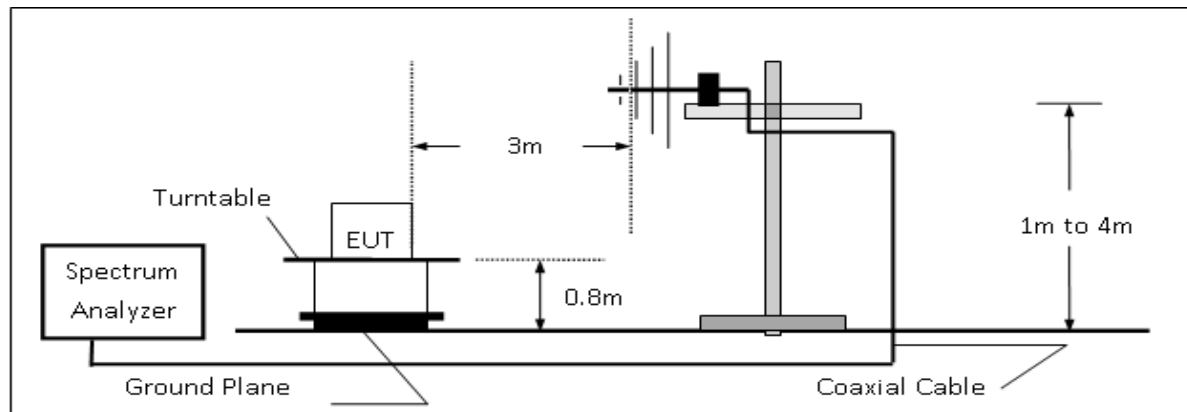
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11.3 Test SET-UP

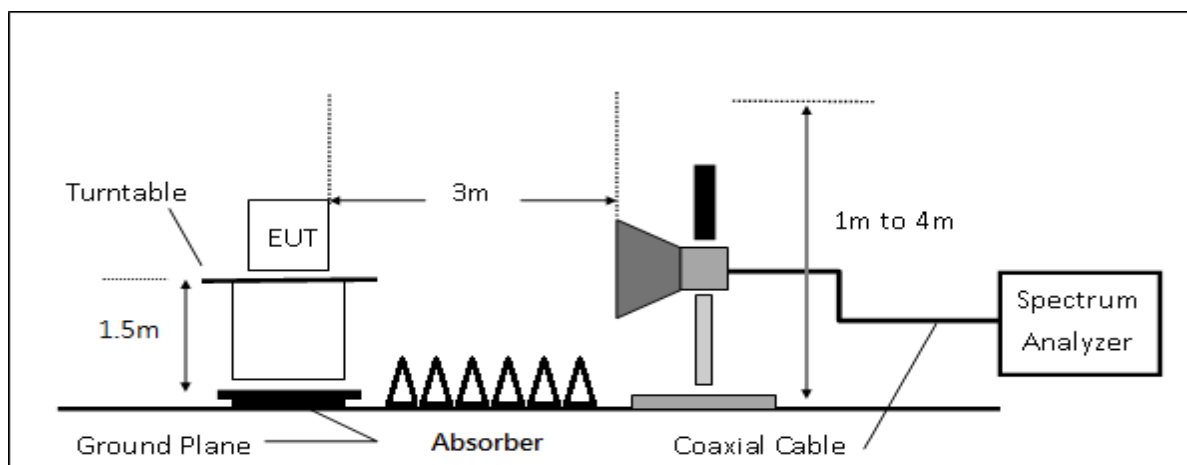
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency 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(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

Refer to next page for tabular data sheets.

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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Report Number :T190816W02

Test Date :2019-08-22

Operation Band :802.11a/Band 1

Temp./Humi. :26.3/54

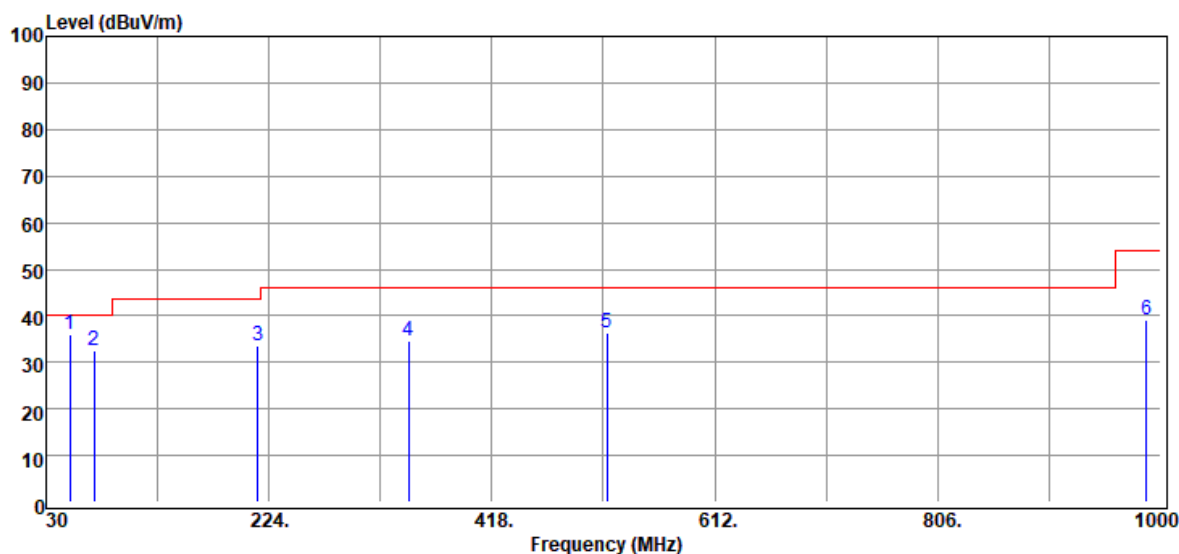
Frequency :5220 MHz

Antenna Pol. :VERTICAL

Operation Mode :TX CH MID

Engineer :Kailin

EUT Pol. :H Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
50.37	Peak	51.12	-15.27	35.85	40.00	-4.15
71.71	Peak	47.15	-14.74	32.41	40.00	-7.59
214.30	Peak	45.07	-11.49	33.58	43.50	-9.92
345.25	Peak	41.83	-7.12	34.71	46.00	-11.29
517.91	Peak	39.17	-2.68	36.49	46.00	-9.51
987.39	Peak	33.70	5.46	39.16	54.00	-14.84

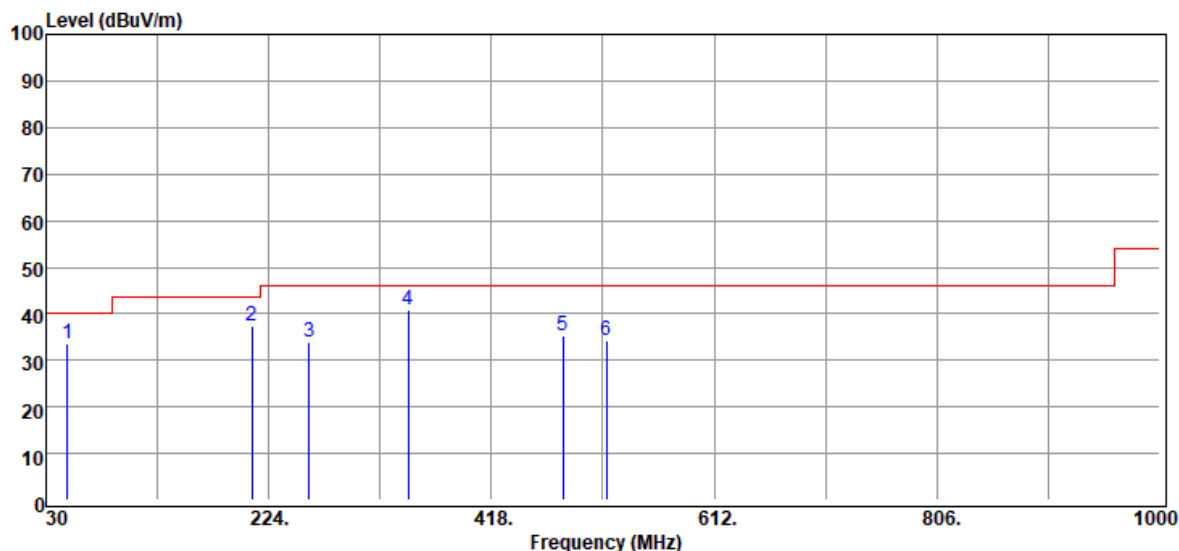
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Report Number :T190816W02
Operation Band :802.11a/Band 1
Frequency :5220 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :26.3/54
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.43	Peak	48.19	-14.63	33.56	40.00	-6.44
209.45	Peak	49.07	-11.57	37.50	43.50	-6.00
258.92	Peak	43.72	-9.88	33.84	46.00	-12.16
345.25	Peak	47.95	-7.12	40.83	46.00	-5.17
480.08	Peak	38.45	-2.98	35.47	46.00	-10.53
517.91	Peak	36.99	-2.68	34.31	46.00	-11.69

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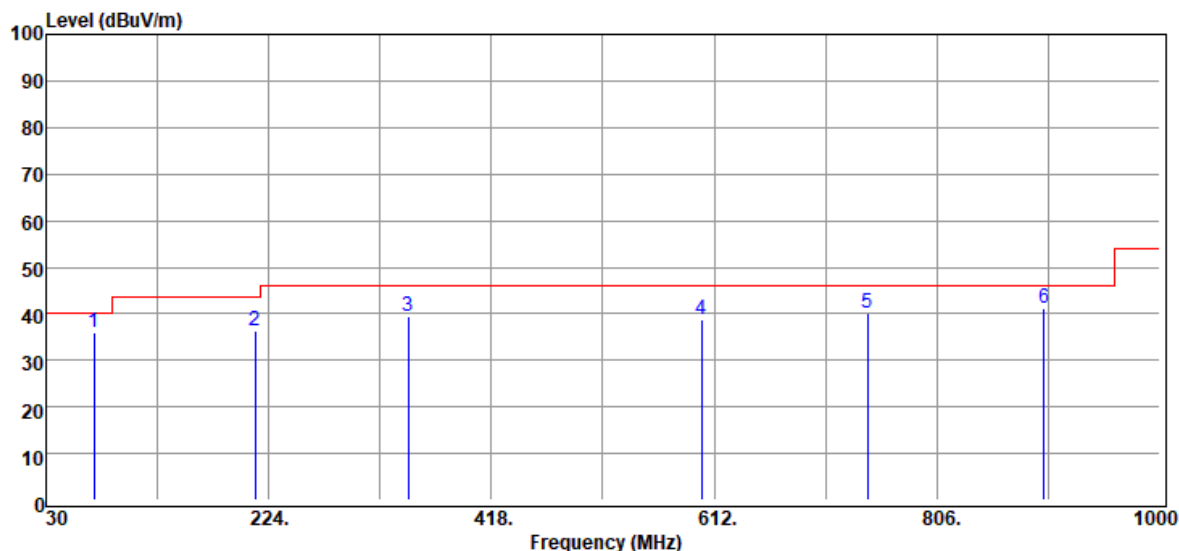
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802.11a 5250~5350 MHz

Report Number :T190816W02
 Operation Band :802.11a/Band 2
 Frequency :5300 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-08-22
 Temp./Humi. :26.3/54
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
71.71	Peak	50.59	-14.74	35.85	40.00	-4.15
212.36	Peak	47.95	-11.54	36.41	43.50	-7.09
345.25	Peak	46.42	-7.12	39.30	46.00	-6.70
601.33	Peak	40.39	-1.55	38.84	46.00	-7.16
745.86	Peak	38.30	1.96	40.26	46.00	-5.74
899.12	Peak	37.17	4.18	41.35	46.00	-4.65

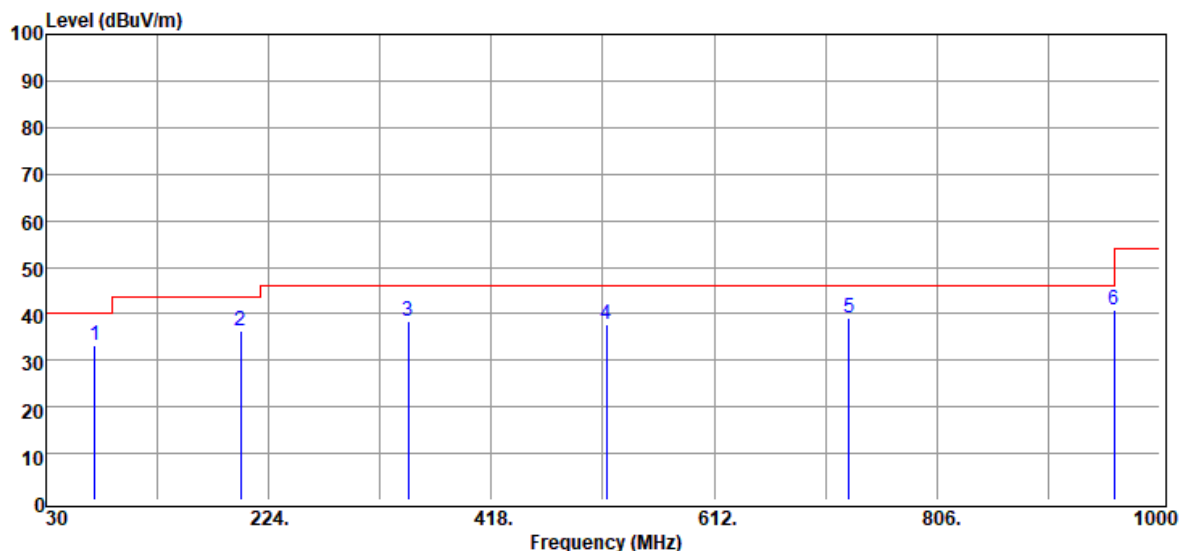
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Report Number :T190816W02
Operation Band :802.11a/Band 2
Frequency :5300 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :26.3/54
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
72.68	Peak	48.06	-14.81	33.25	40.00	-6.75
199.75	Peak	45.67	-9.29	36.38	43.50	-7.12
345.25	Peak	45.63	-7.12	38.51	46.00	-7.49
517.91	Peak	40.40	-2.68	37.72	46.00	-8.28
729.37	Peak	37.91	1.13	39.04	46.00	-6.96
960.23	Peak	36.49	4.51	41.00	54.00	-13.00

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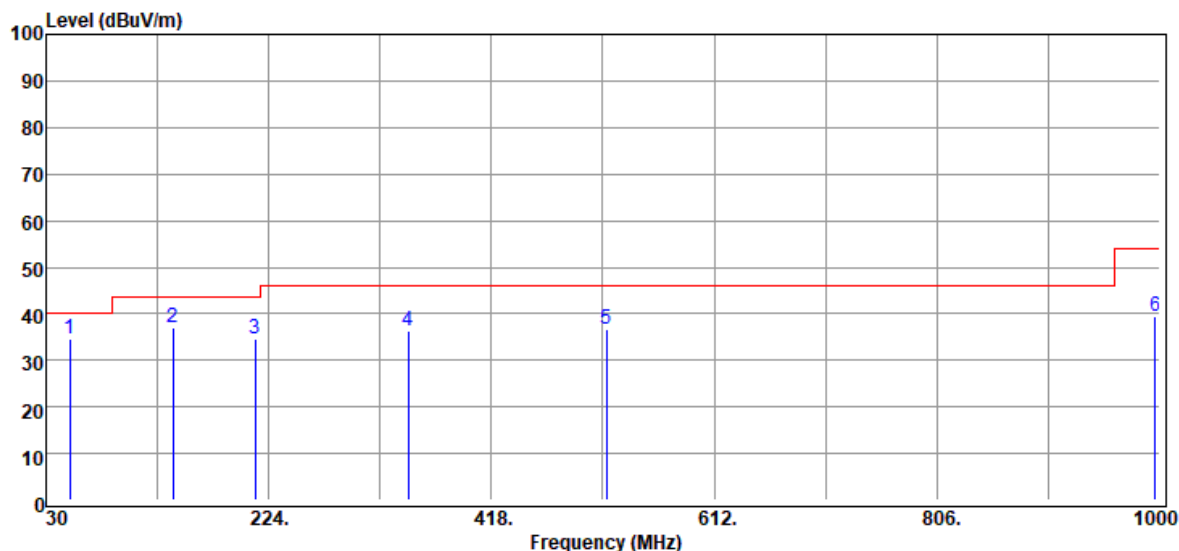
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802.11a 5470~5725 MHz

Report Number :T190816W02
 Operation Band :802.11a/Band 3
 Frequency :5580 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-08-22
 Temp./Humi. :26.3/54
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
50.37	Peak	49.71	-15.27	34.44	40.00	-5.56
140.58	Peak	47.02	-9.92	37.10	43.50	-6.40
212.36	Peak	46.01	-11.54	34.47	43.50	-9.03
345.25	Peak	43.44	-7.12	36.32	46.00	-9.68
517.91	Peak	39.40	-2.68	36.72	46.00	-9.28
996.12	Peak	34.19	5.21	39.40	54.00	-14.60

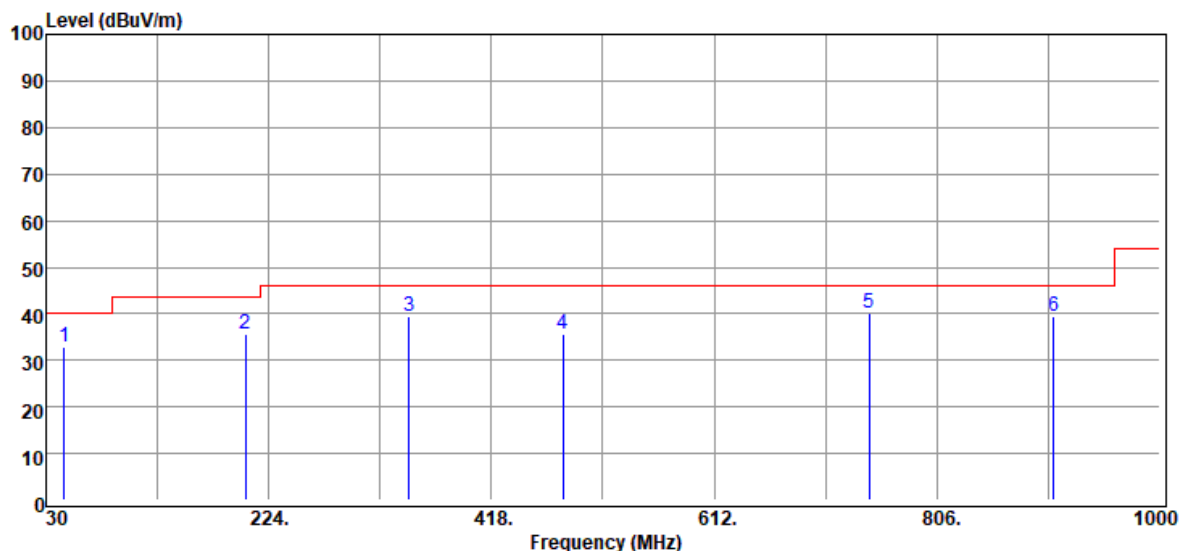
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Report Number :T190816W02
Operation Band :802.11a/Band 3
Frequency :5580 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :26.3/54
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
45.52	Peak	46.04	-13.23	32.81	40.00	-7.19
203.63	Peak	46.33	-10.80	35.53	43.50	-7.97
346.22	Peak	46.49	-7.12	39.37	46.00	-6.63
480.08	Peak	38.65	-2.98	35.67	46.00	-10.33
746.83	Peak	38.23	1.94	40.17	46.00	-5.83
907.85	Peak	35.37	4.06	39.43	46.00	-6.57

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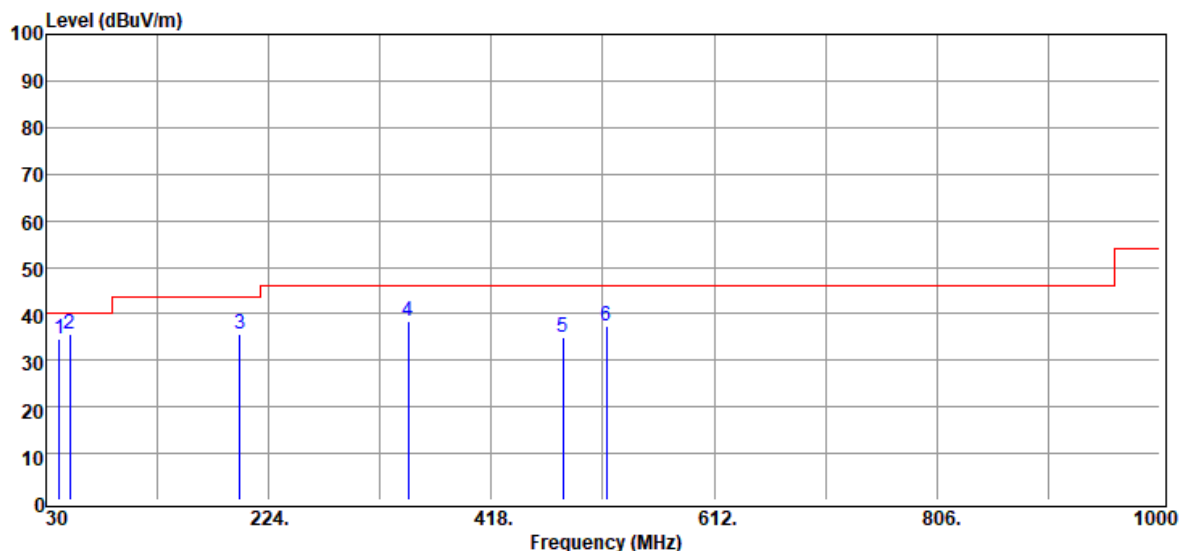
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802.11a 5725~5850 MHz

Report Number :T190816W02
 Operation Band :802.11a/Band 4
 Frequency :5785 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-08-22
 Temp./Humi. :26.3/54
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
41.64	Peak	45.19	-10.69	34.50	40.00	-5.50
50.37	Peak	51.06	-15.27	35.79	40.00	-4.21
198.78	Peak	44.81	-9.26	35.55	43.50	-7.95
345.25	Peak	45.51	-7.12	38.39	46.00	-7.61
480.08	Peak	38.04	-2.98	35.06	46.00	-10.94
517.91	Peak	40.02	-2.68	37.34	46.00	-8.66

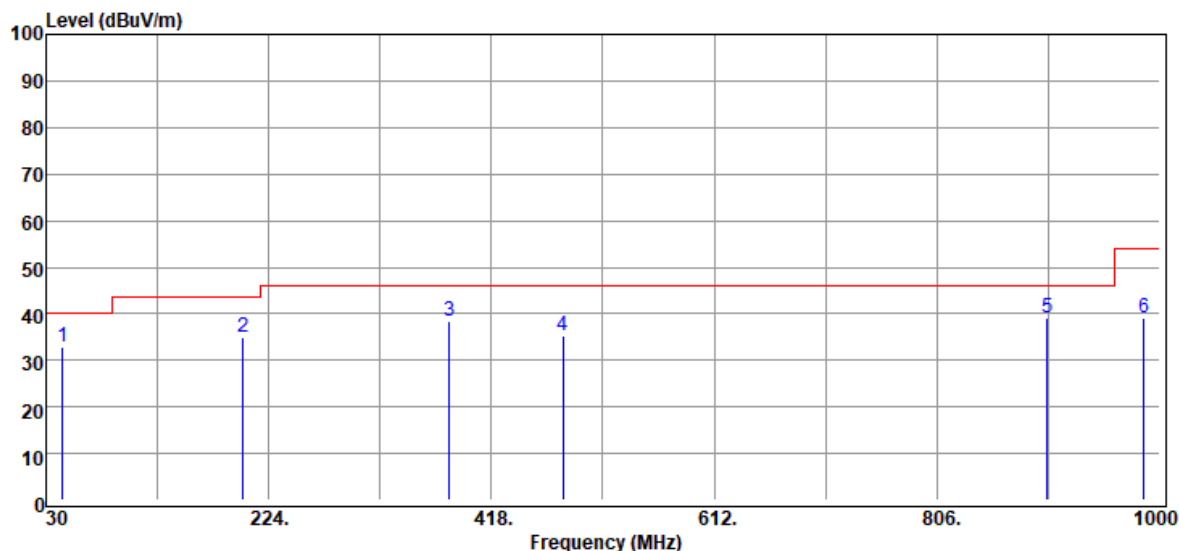
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Report Number :T190816W02
Operation Band :802.11a/Band 4
Frequency :5785 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-22
Temp./Humi. :26.3/54
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
44.55	Peak	45.70	-12.72	32.98	40.00	-7.02
201.69	Peak	45.04	-10.01	35.03	43.50	-8.47
381.14	Peak	44.90	-6.34	38.56	46.00	-7.44
480.08	Peak	38.29	-2.98	35.31	46.00	-10.69
902.03	Peak	34.93	4.08	39.01	46.00	-6.99
986.42	Peak	33.84	5.42	39.26	54.00	-14.74

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

Report Number :T190816W02

Test Date :2019-08-21

Operation Band :802.11a/Band 1

Temp./Humi. :26.1/53

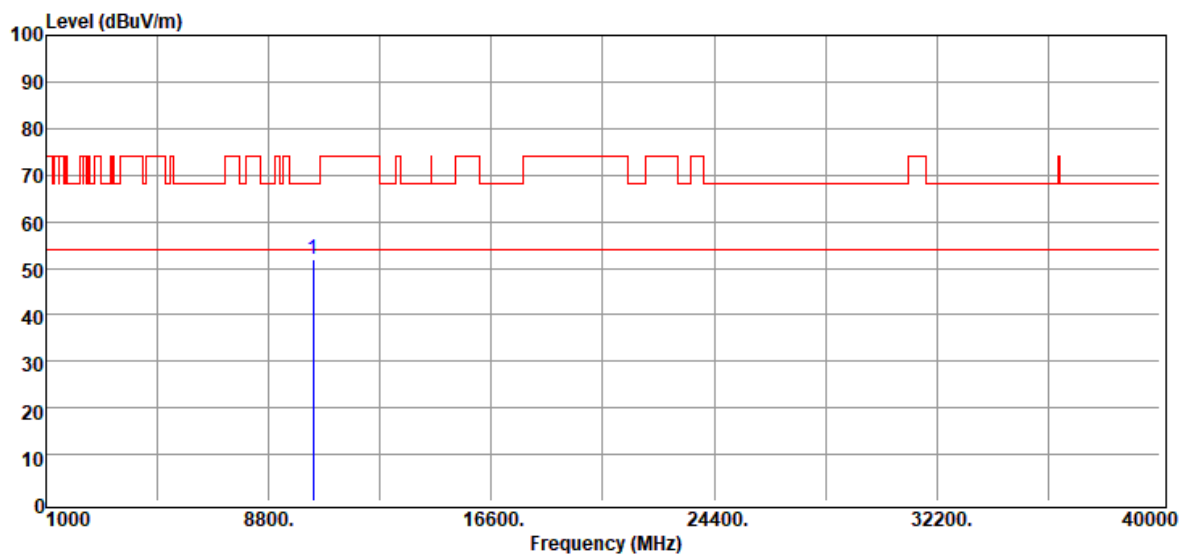
Frequency :5180 MHz

Antenna Pol. :VERTICAL

Operation Mode :TX CH LOW

Engineer :Kailin

EUT Pol. :H Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	37.86	14.12	51.98	68.20	-16.22

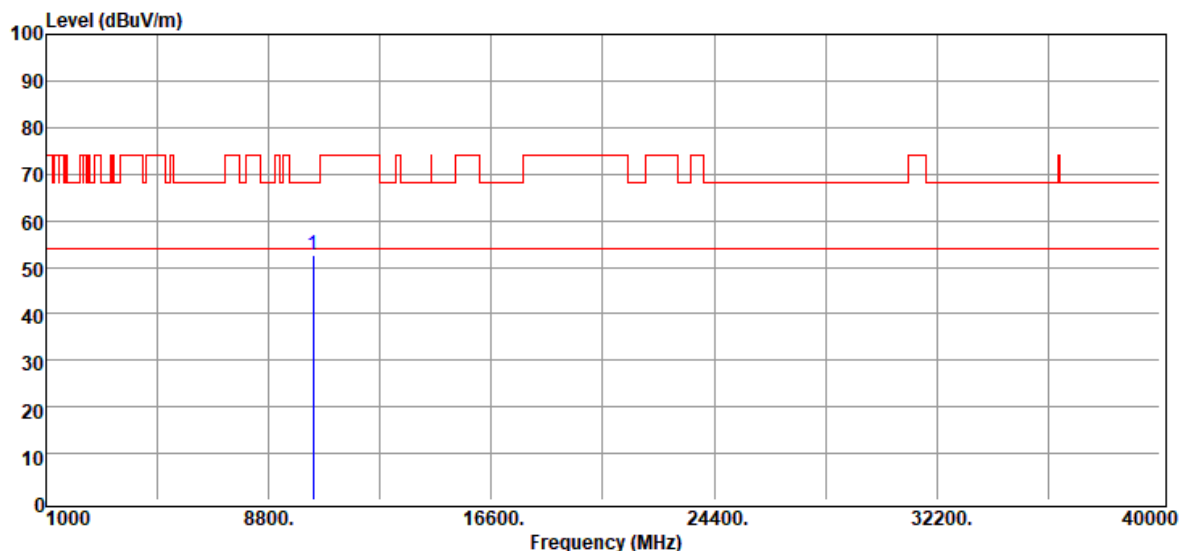
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Report Number :T190816W02
Operation Band :802.11a/Band 1
Frequency :5180 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	38.36	14.12	52.48	68.20	-15.72

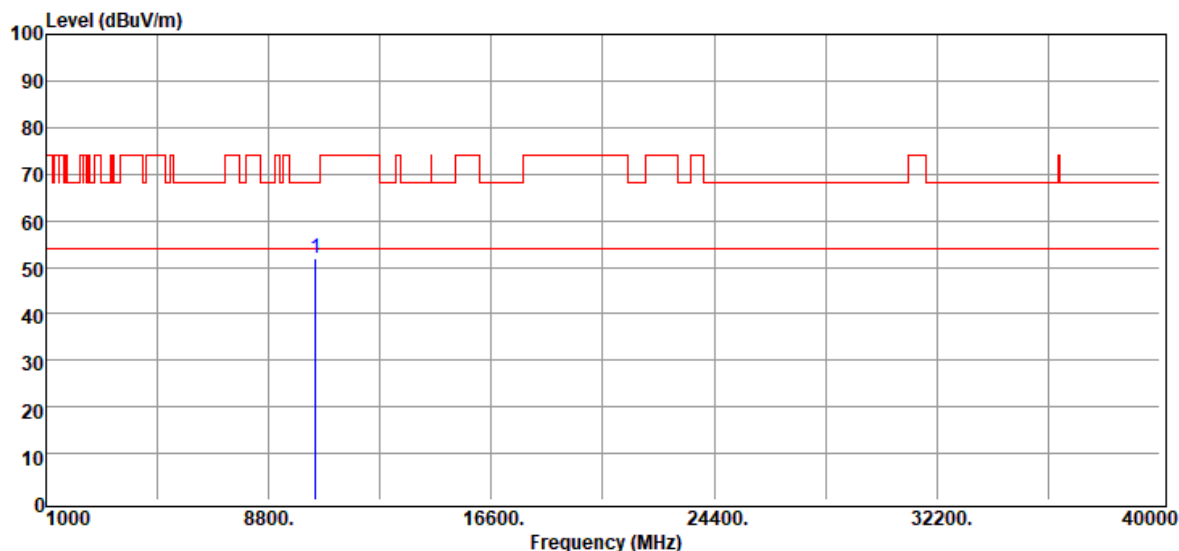
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Report Number :T190816W02
Operation Band :802.11a/Band 1
Frequency :5220 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	36.83	15.21	52.04	68.20	-16.16

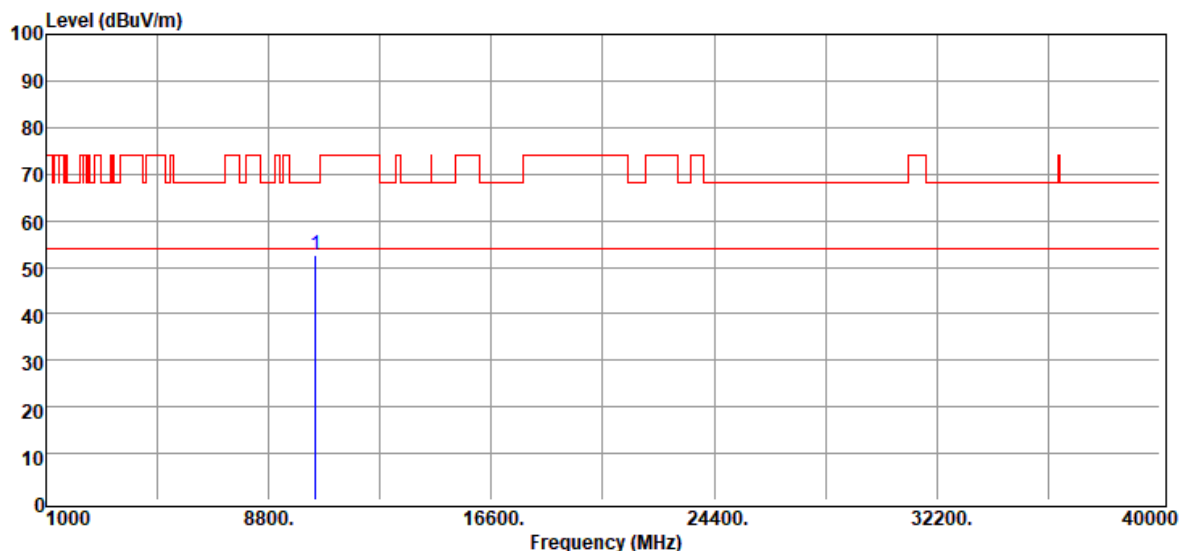
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Report Number :T190816W02
Operation Band :802.11a/Band 1
Frequency :5220 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	37.22	15.21	52.43	68.20	-15.77

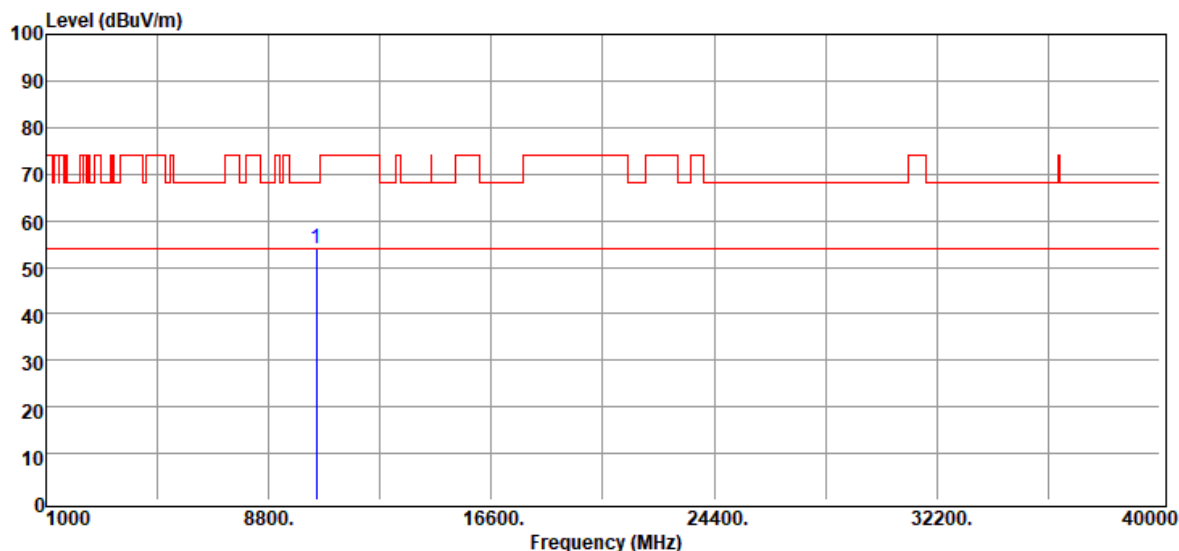
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Report Number :T190816W02
Operation Band :802.11a/Band 1
Frequency :5240 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	37.95	16.09	54.04	68.20	-14.16

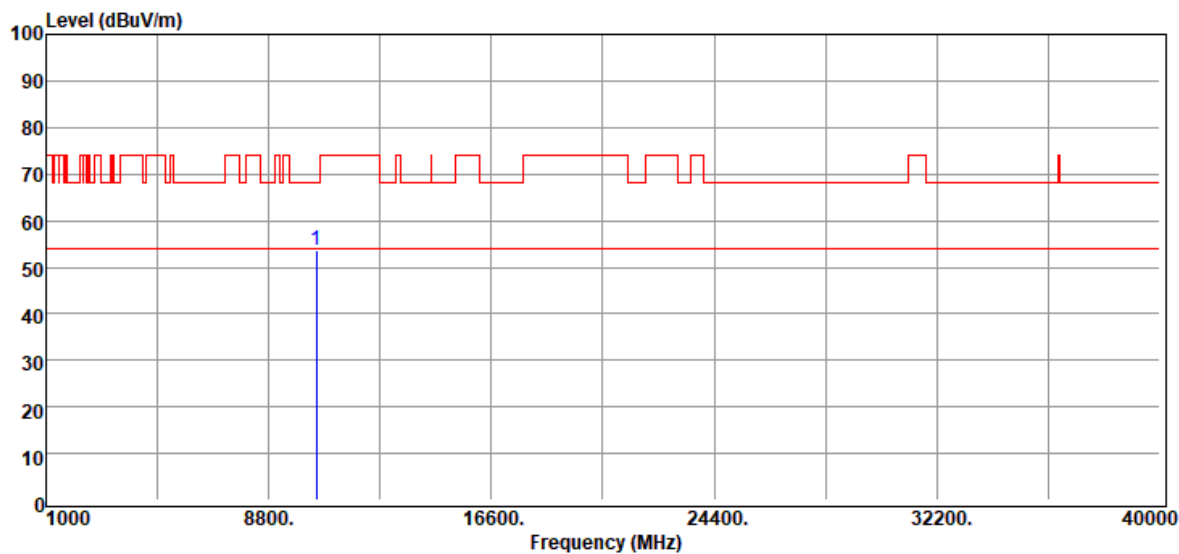
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Report Number :T190816W02
 Operation Band :802.11a/Band 1
 Frequency :5240 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-08-21
 Temp./Humi. :26.1/52
 Antenna Pol. :HORIZONTAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	Peak	37.62	16.09	53.71	68.20	-14.49

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

Report Number :T190816W02

Test Date :2019-08-21

Operation Band :802.11a/Band 2

Temp./Humi. :26.1/52

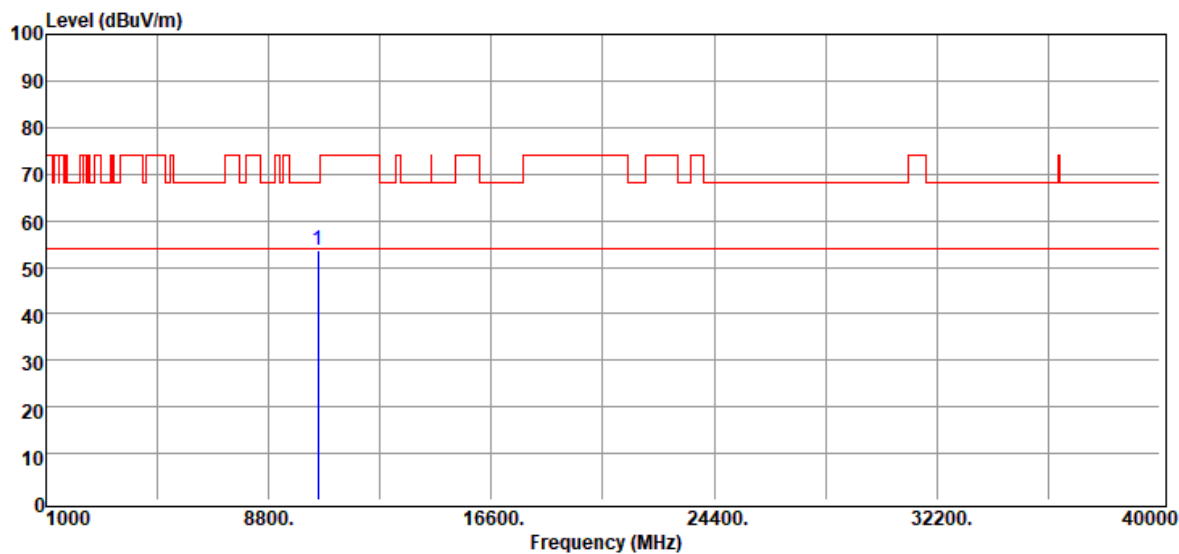
Frequency :5260 MHz

Antenna Pol. :VERTICAL

Operation Mode :TX CH LOW

Engineer :Kailin

EUT Pol. :H Plan



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	Peak	38.19	15.33	53.52	68.20	-14.68

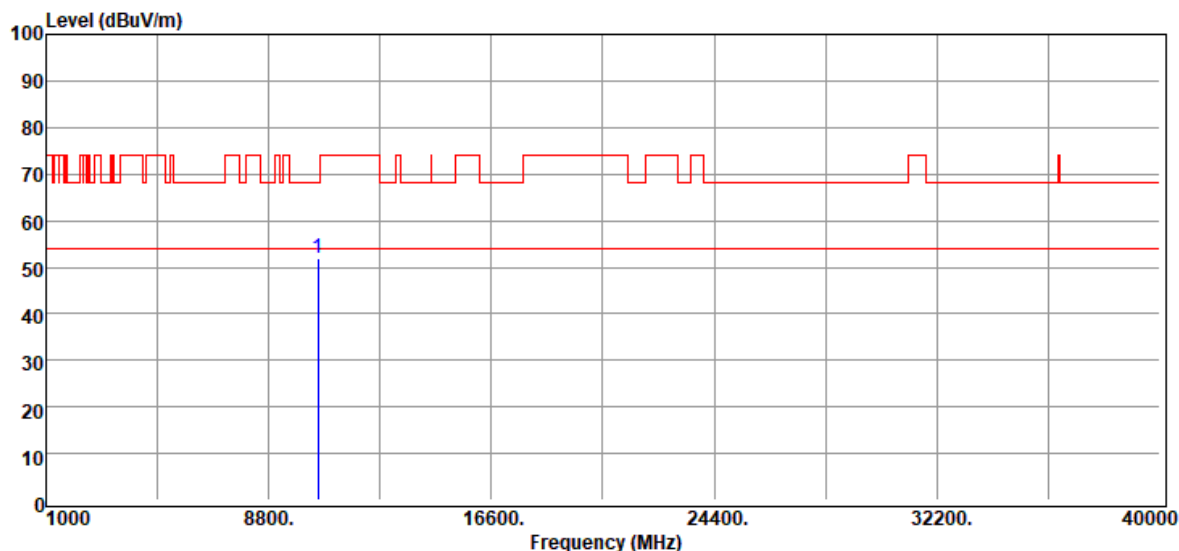
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Report Number :T190816W02
Operation Band :802.11a/Band 2
Frequency :5260 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	36.68	15.33	52.01	68.20	-16.19

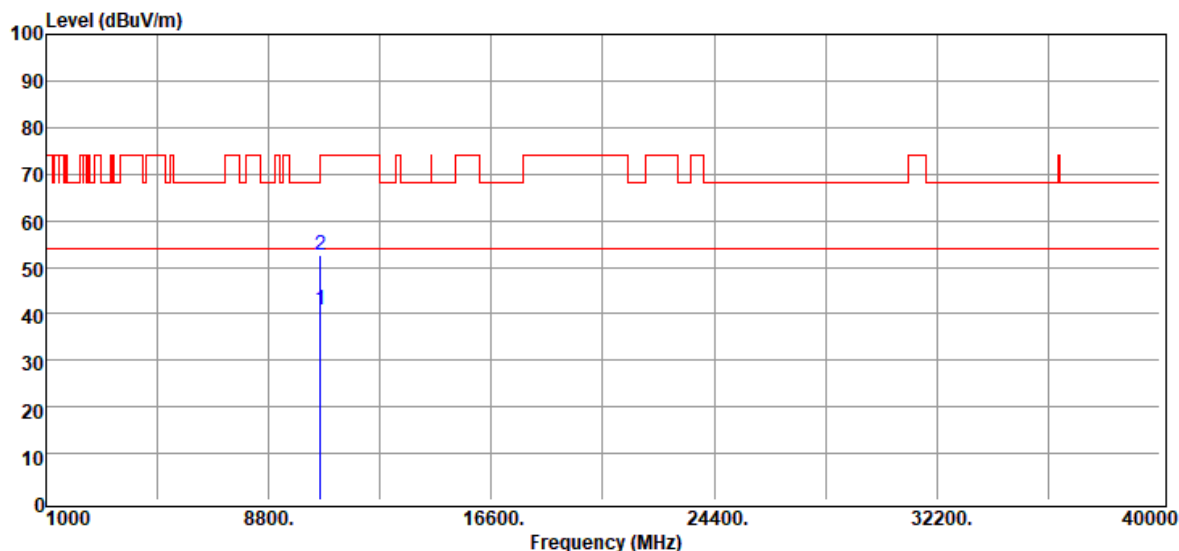
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Report Number :T190816W02
Operation Band :802.11a/Band 2
Frequency :5300 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	26.21	14.56	40.77	54.00	-13.23
10600.00	Peak	38.06	14.56	52.62	74.00	-21.38

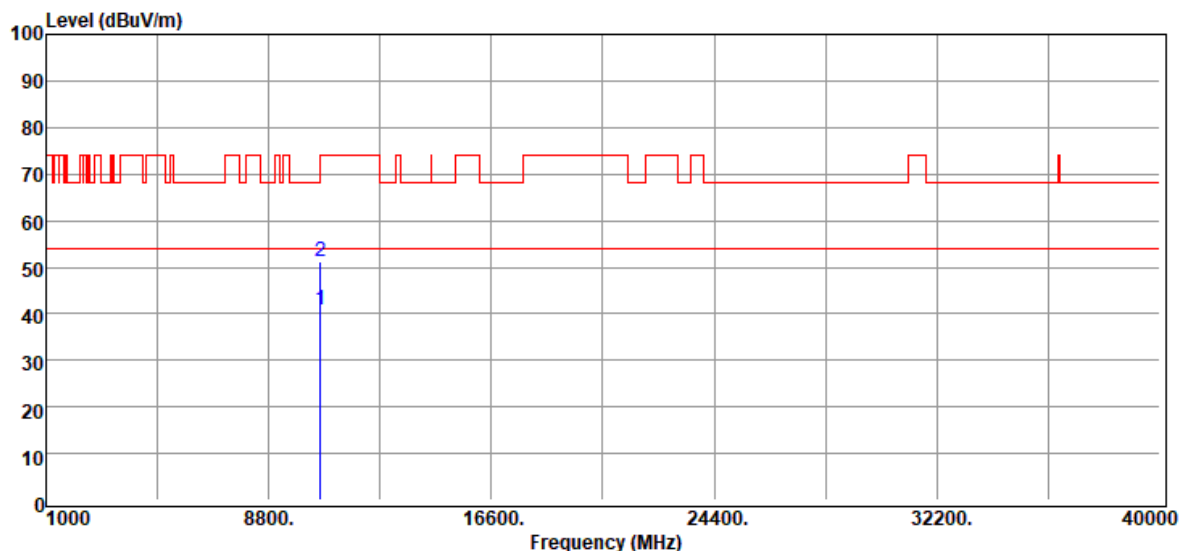
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Report Number :T190816W02
Operation Band :802.11a/Band 2
Frequency :5300 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	26.18	14.56	40.74	54.00	-13.26
10600.00	Peak	36.62	14.56	51.18	74.00	-22.82

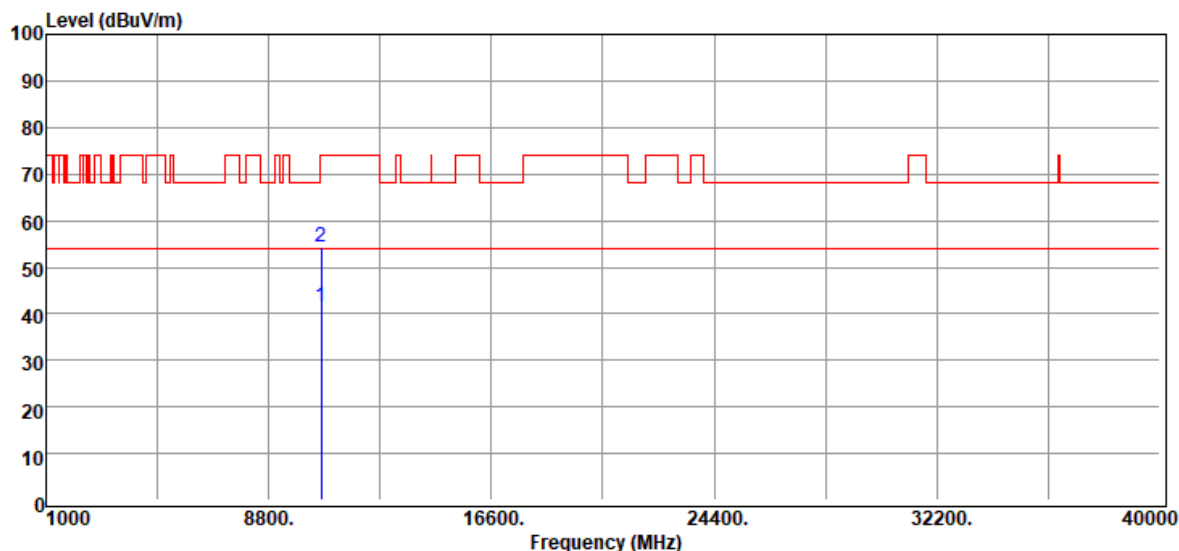
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Report Number :T190816W02
Operation Band :802.11a/Band 2
Frequency :5320 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	26.31	15.05	41.36	54.00	-12.64
10640.00	Peak	39.31	15.05	54.36	74.00	-19.64

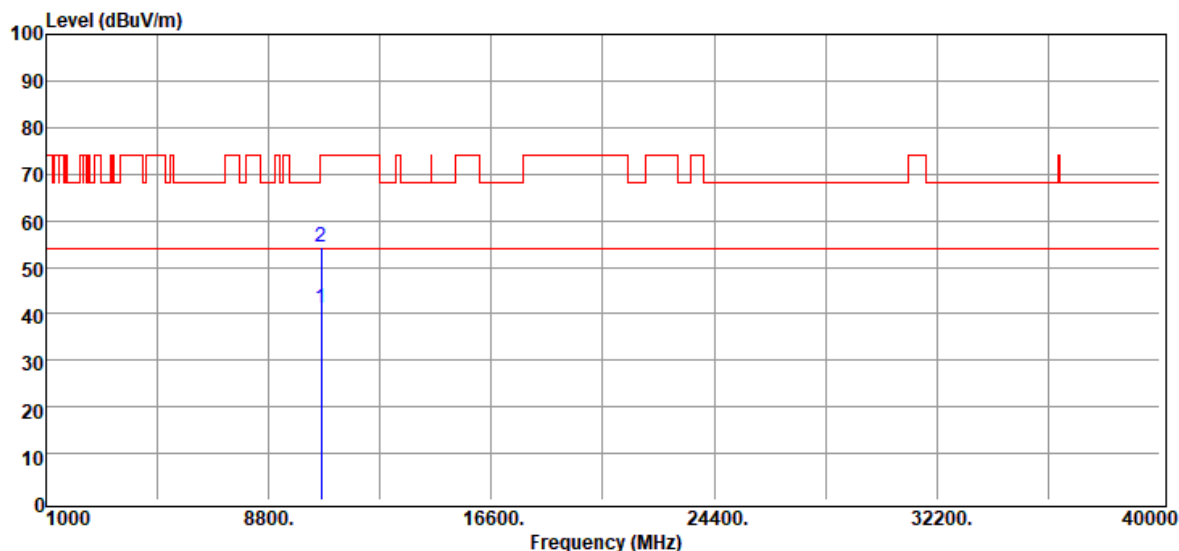
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Report Number :T190816W02
Operation Band :802.11a/Band 2
Frequency :5320 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	26.19	15.05	41.24	54.00	-12.76
10640.00	Peak	39.23	15.05	54.28	74.00	-19.72

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

Report Number :T190816W02

Test Date :2019-08-21

Operation Band :802.11a/Band 3

Temp./Humi. :26.1/52

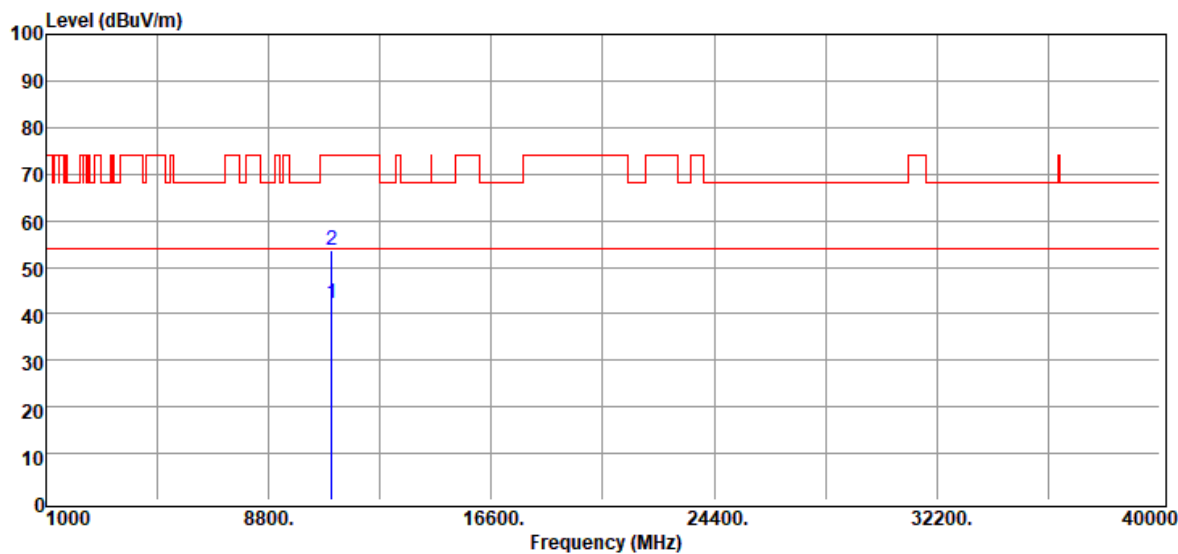
Frequency :5500 MHz

Antenna Pol. :VERTICAL

Operation Mode :TX CH LOW

Engineer :Kailin

EUT Pol. :H Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	26.35	15.80	42.15	54.00	-11.85
11000.00	Peak	37.71	15.80	53.51	74.00	-20.49

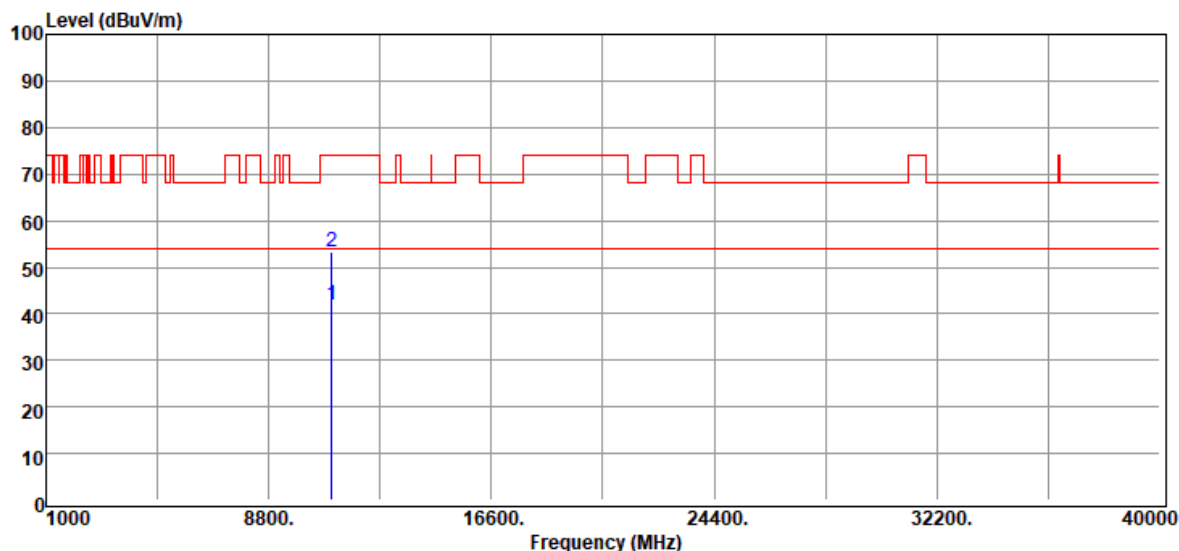
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Report Number :T190816W02
Operation Band :802.11a/Band 3
Frequency :5500 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	26.17	15.80	41.97	54.00	-12.03
11000.00	Peak	37.35	15.80	53.15	74.00	-20.85

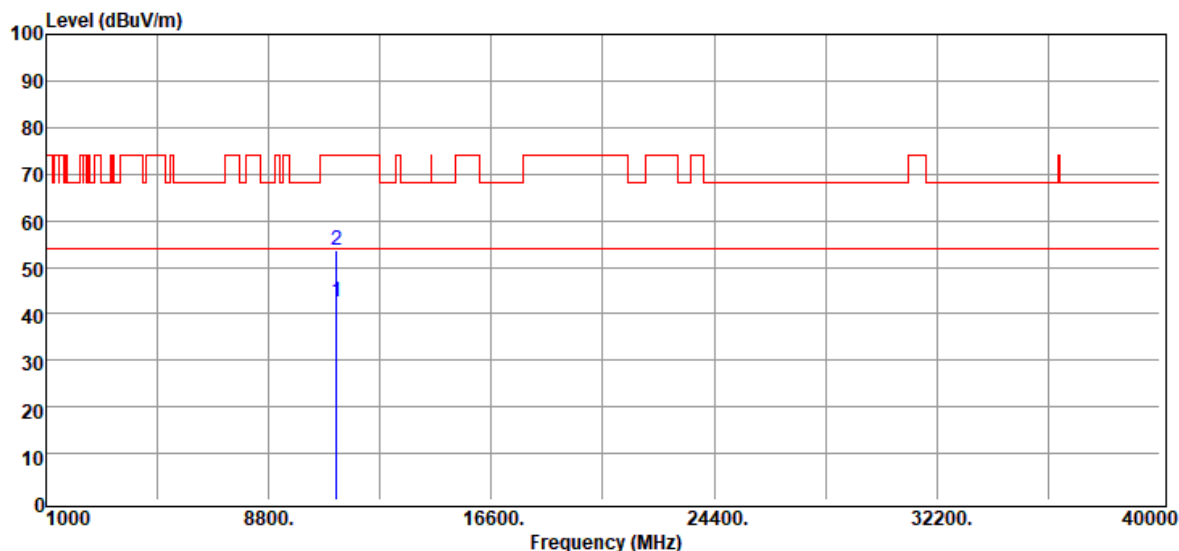
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Report Number :T190816W02
Operation Band :802.11a/Band 3
Frequency :5580 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	26.44	16.17	42.61	54.00	-11.39
11160.00	Peak	37.54	16.17	53.71	74.00	-20.29

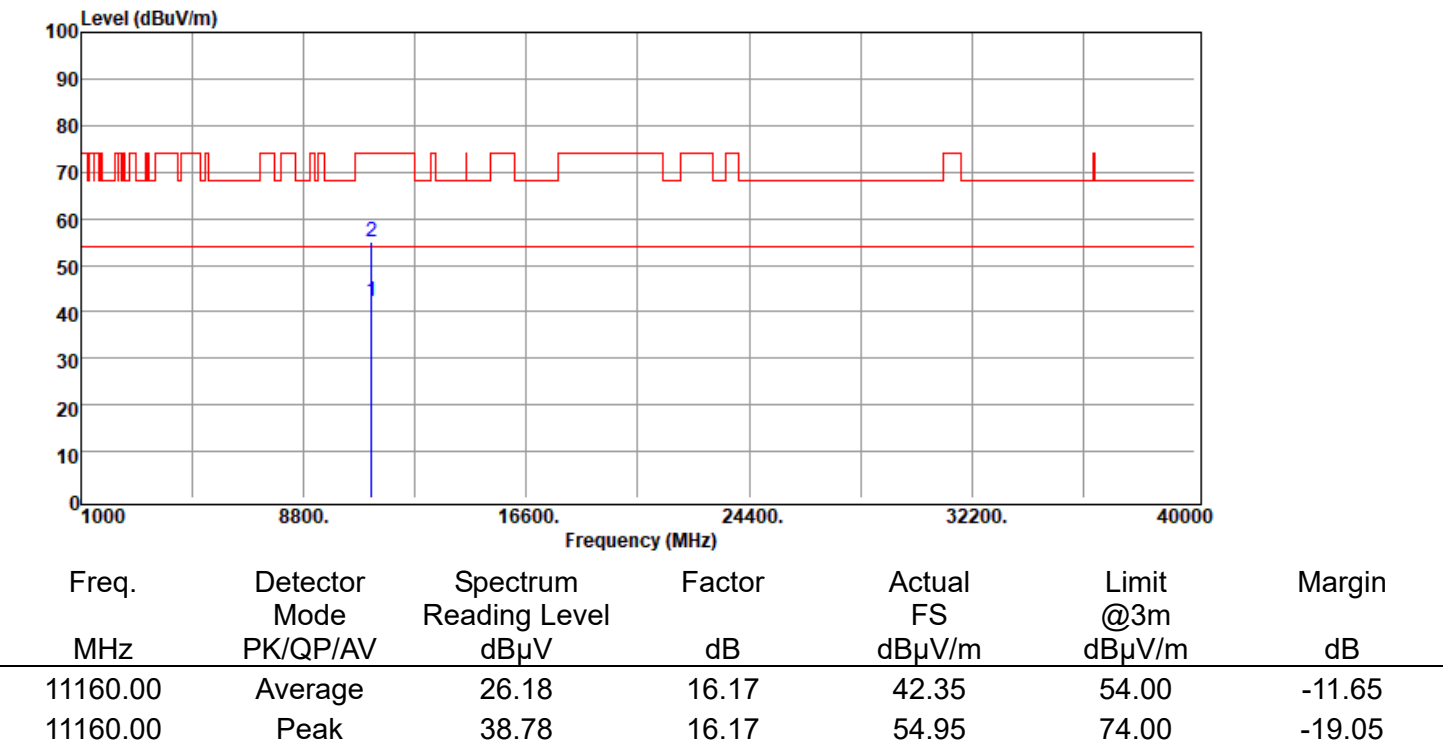
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Report Number :T190816W02
Operation Band :802.11a/Band 3
Frequency :5580 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

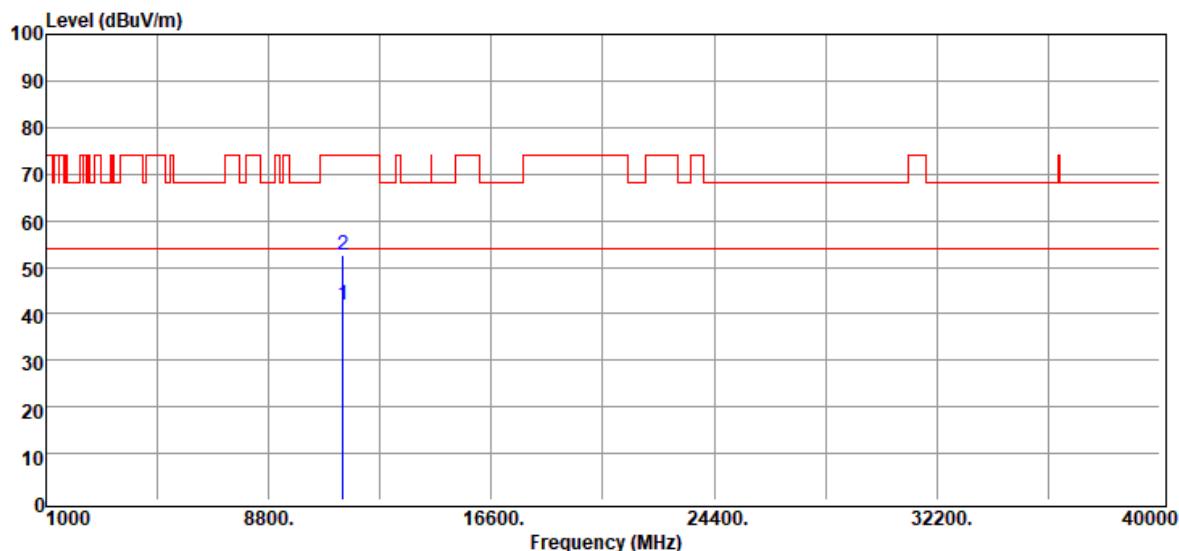
Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



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Report Number :T190816W02
Operation Band :802.11a/Band 3
Frequency :5700 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	26.08	15.94	42.02	54.00	-11.98
11400.00	Peak	36.74	15.94	52.68	74.00	-21.32

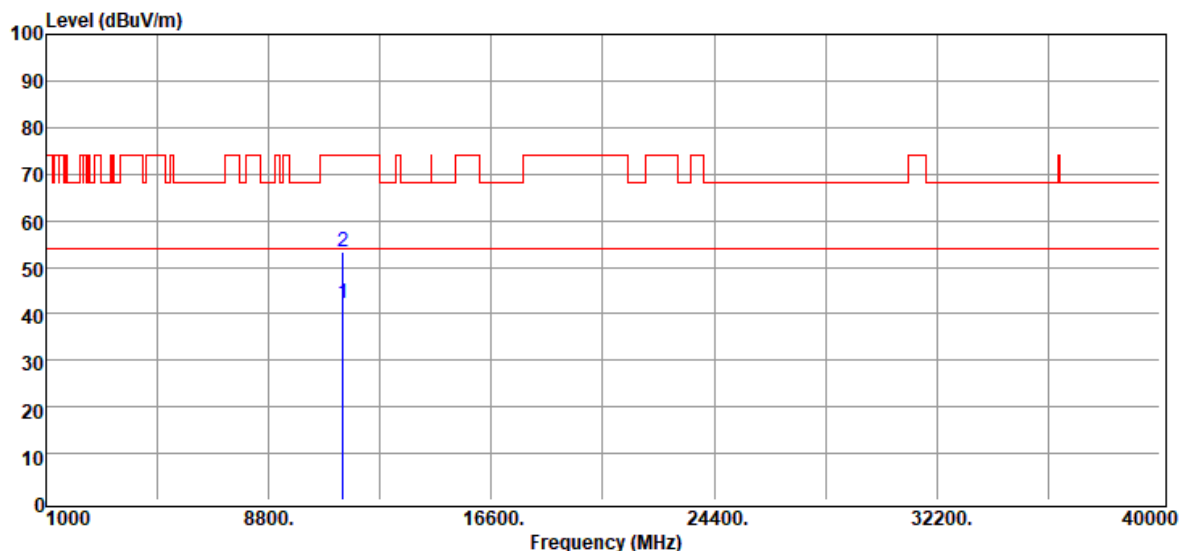
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Report Number :T190816W02
Operation Band :802.11a/Band 3
Frequency :5700 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	26.12	15.94	42.06	54.00	-11.94
11400.00	Peak	37.36	15.94	53.30	74.00	-20.70

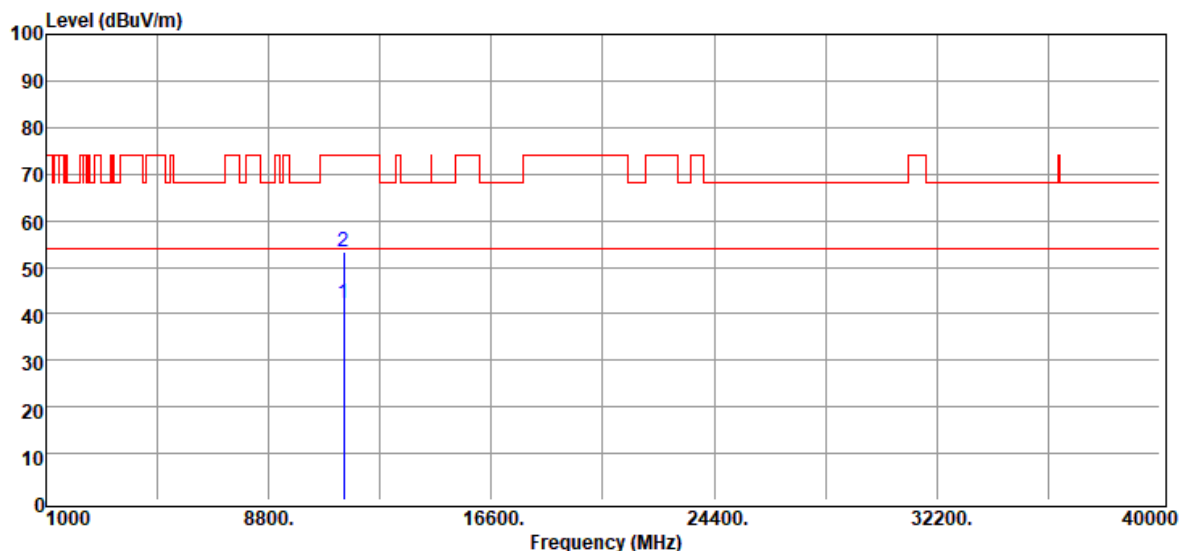
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Report Number :T190816W02
Operation Band :802.11a/Band 3-4
Frequency :5720 MHz
Operation Mode :TX CH 144
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	26.07	16.11	42.18	54.00	-11.82
11440.00	Peak	37.34	16.11	53.45	74.00	-20.55

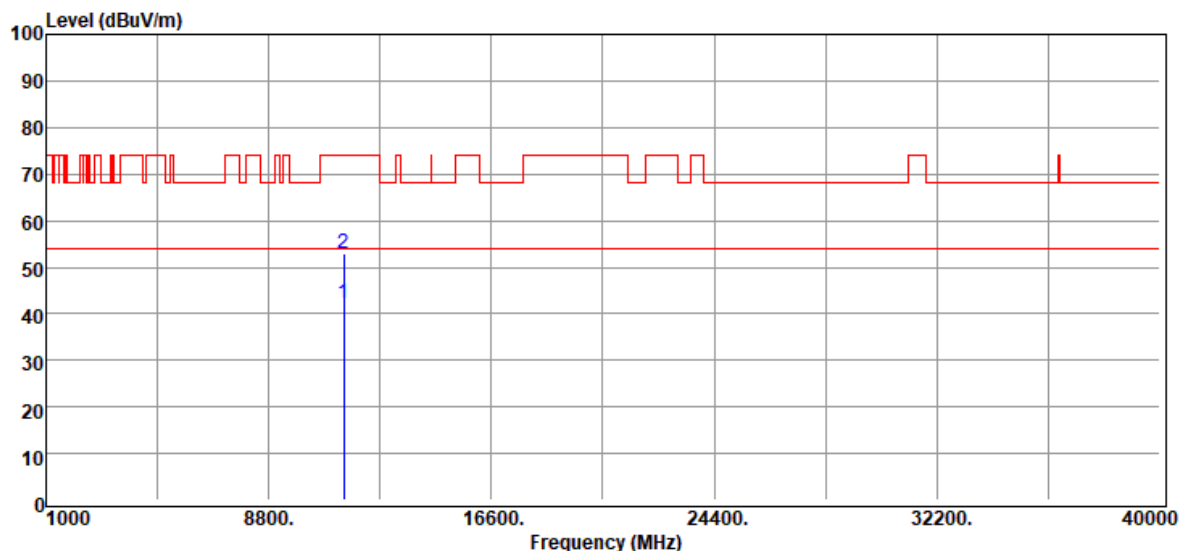
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Report Number :T190816W02
Operation Band :802.11a/Band 3-4
Frequency :5720 MHz
Operation Mode :TX CH 144
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	26.05	16.11	42.16	54.00	-11.84
11440.00	Peak	36.78	16.11	52.89	74.00	-21.11

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

Report Number :T190816W02

Test Date :2019-08-21

Operation Band :802.11a/Band 4

Temp./Humi. :26.1/52

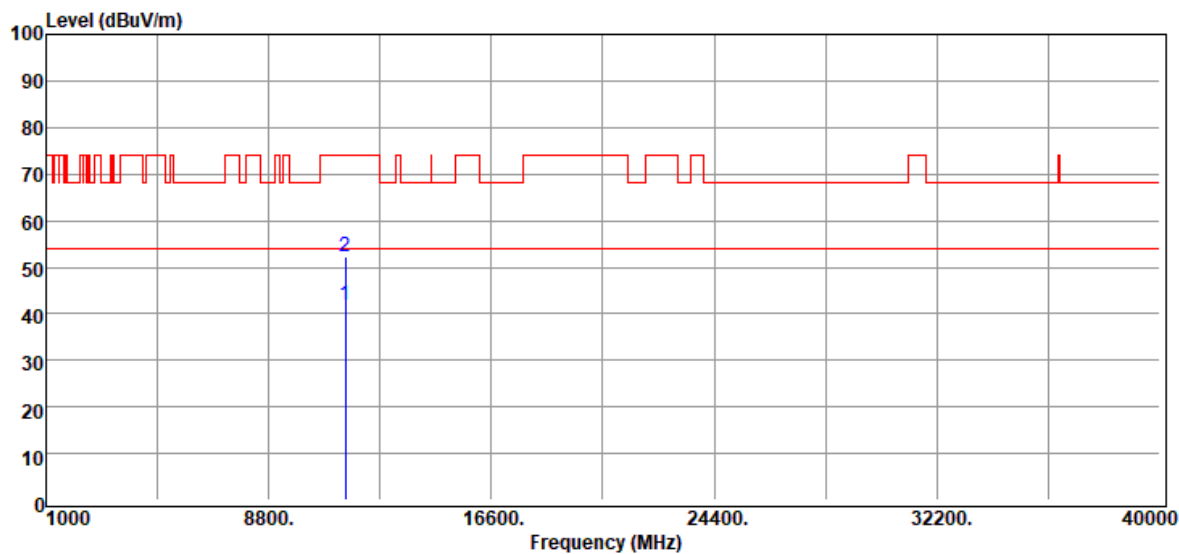
Frequency :5745 MHz

Antenna Pol. :VERTICAL

Operation Mode :TX CH LOW

Engineer :Kailin

EUT Pol. :H Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	26.23	15.57	41.80	54.00	-12.20
11490.00	Peak	36.85	15.57	52.42	74.00	-21.58

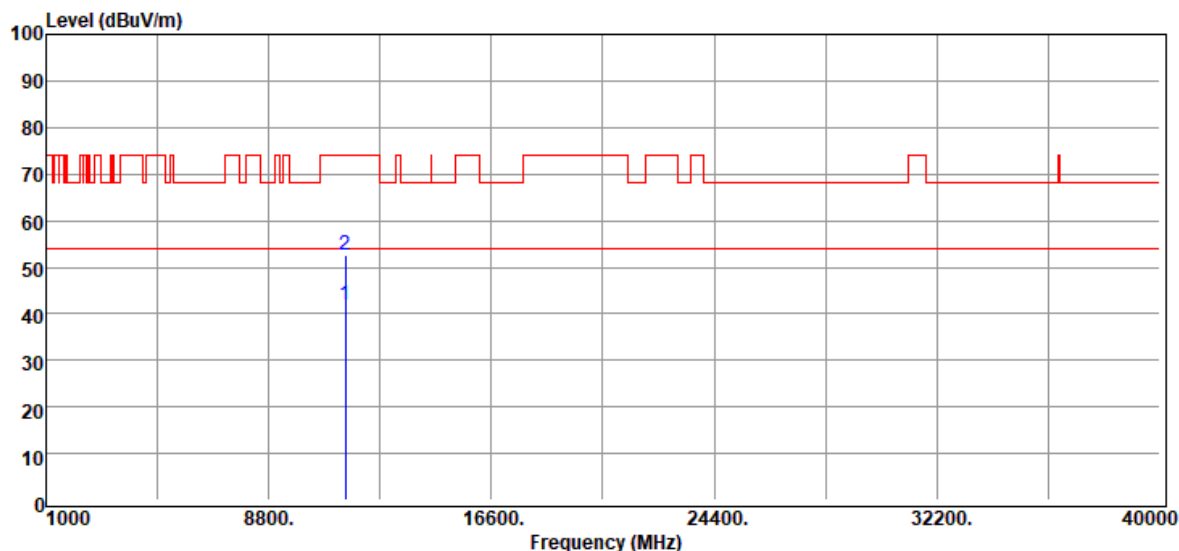
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Report Number :T190816W02
Operation Band :802.11a/Band 4
Frequency :5745 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	26.15	15.57	41.72	54.00	-12.28
11490.00	Peak	37.10	15.57	52.67	74.00	-21.33

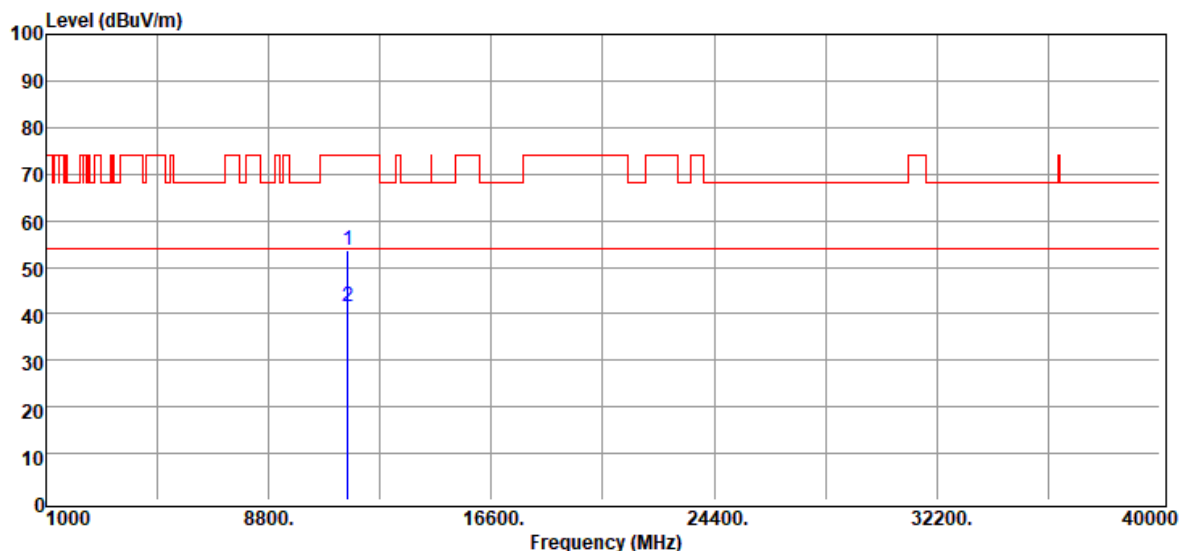
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Report Number :T190816W02
Operation Band :802.11a/Band 4
Frequency :5785 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Peak	38.04	15.50	53.54	74.00	-20.46
11570.00	Peak	26.18	15.50	41.68	74.00	-32.32

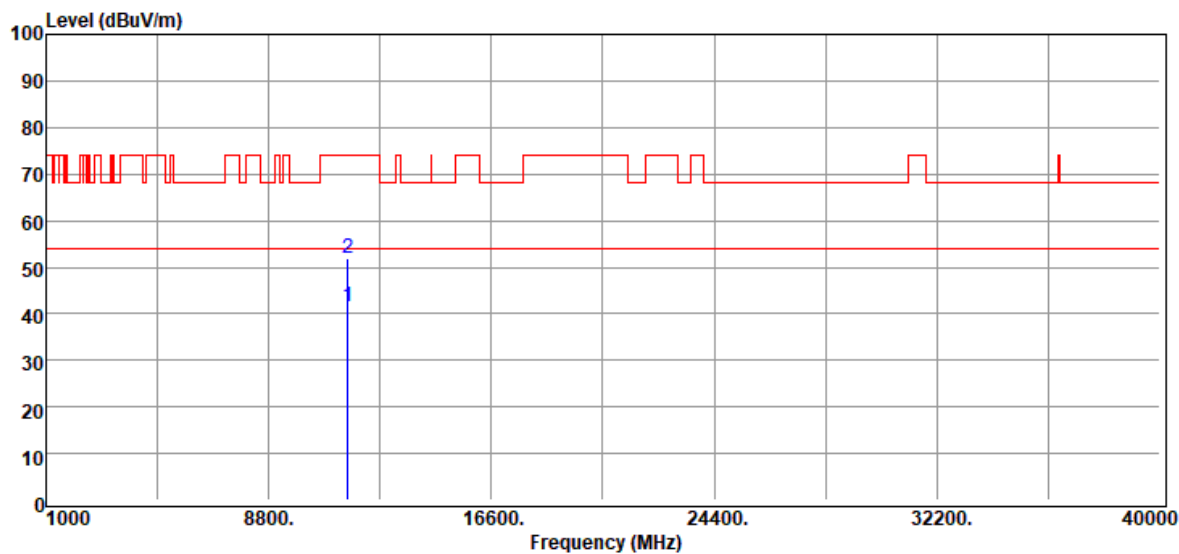
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Report Number :T190816W02
Operation Band :802.11a/Band 4
Frequency :5785 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	26.16	15.50	41.66	54.00	-12.34
11570.00	Peak	36.33	15.50	51.83	74.00	-22.17

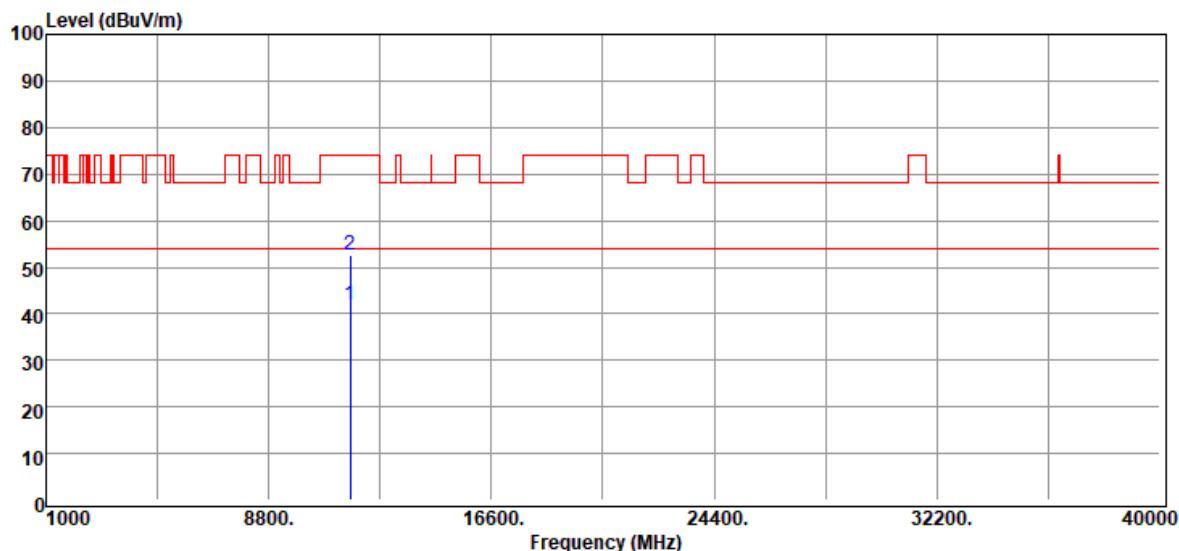
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Report Number :T190816W02
Operation Band :802.11a/Band 4
Frequency :5825 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	26.22	15.53	41.75	54.00	-12.25
11650.00	Peak	36.91	15.53	52.44	74.00	-21.56

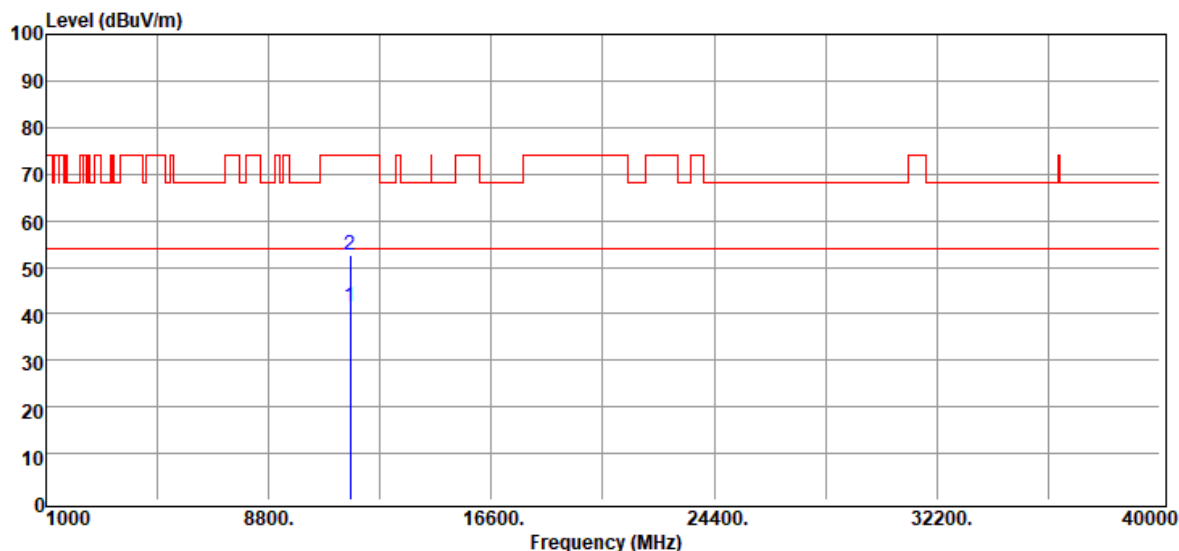
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Report Number :T190816W02
Operation Band :802.11a/Band 4
Frequency :5825 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	26.15	15.53	41.68	54.00	-12.32
11650.00	Peak	37.19	15.53	52.72	74.00	-21.28

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

Report Number :T190816W02

Test Date :2019-08-21

Operation Band :802.11n20/Band 1

Temp./Humi. :26.1/53

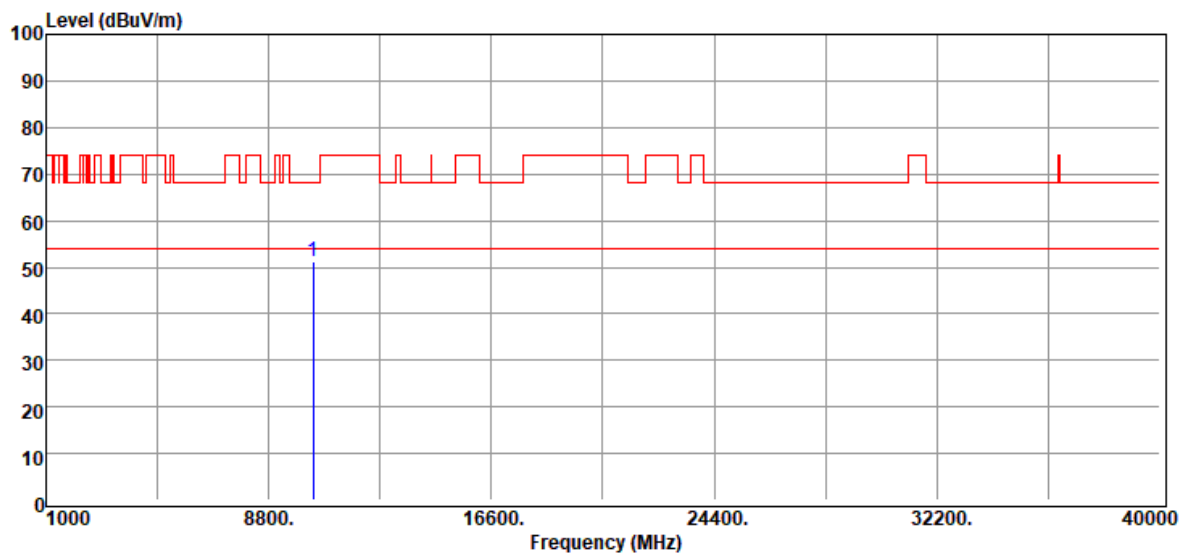
Frequency :5180 MHz

Antenna Pol. :VERTICAL

Operation Mode :TX CH LOW

Engineer :Kailin

EUT Pol. :H Plan



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	Peak	37.24	14.12	51.36	68.20	-16.84

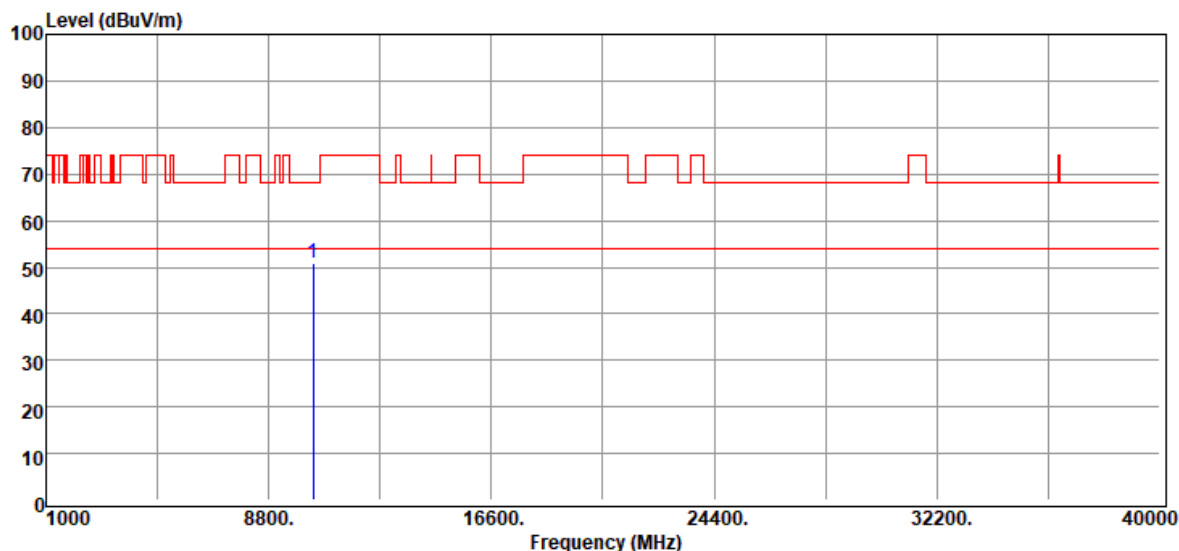
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Report Number :T190816W02
Operation Band :802.11n20/Band 1
Frequency :5180 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	36.75	14.12	50.87	68.20	-17.33

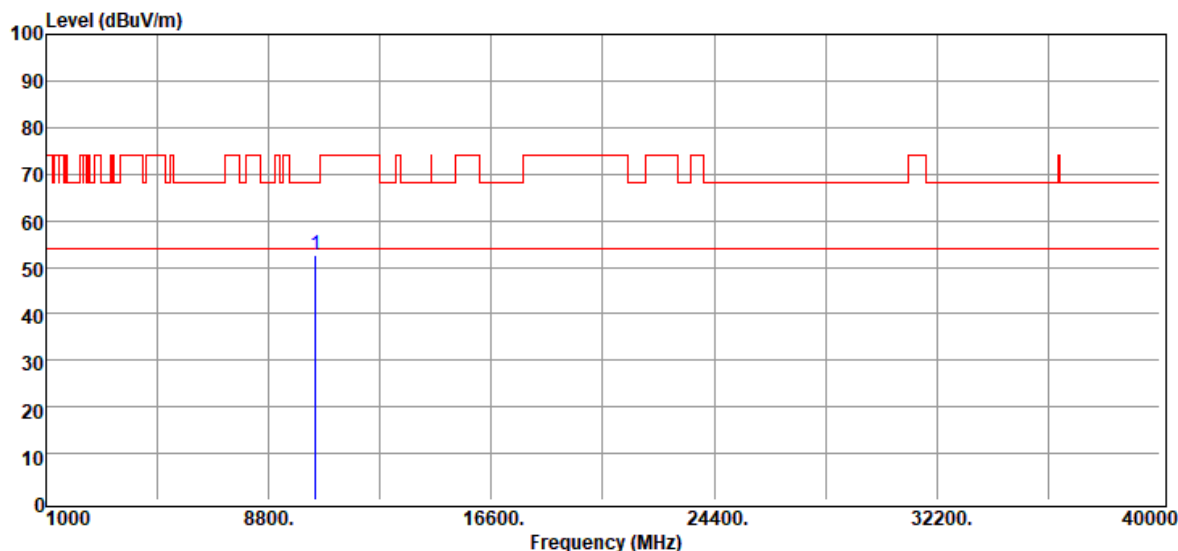
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Report Number :T190816W02
Operation Band :802.11n20/Band 1
Frequency :5220 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	37.48	15.21	52.69	68.20	-15.51

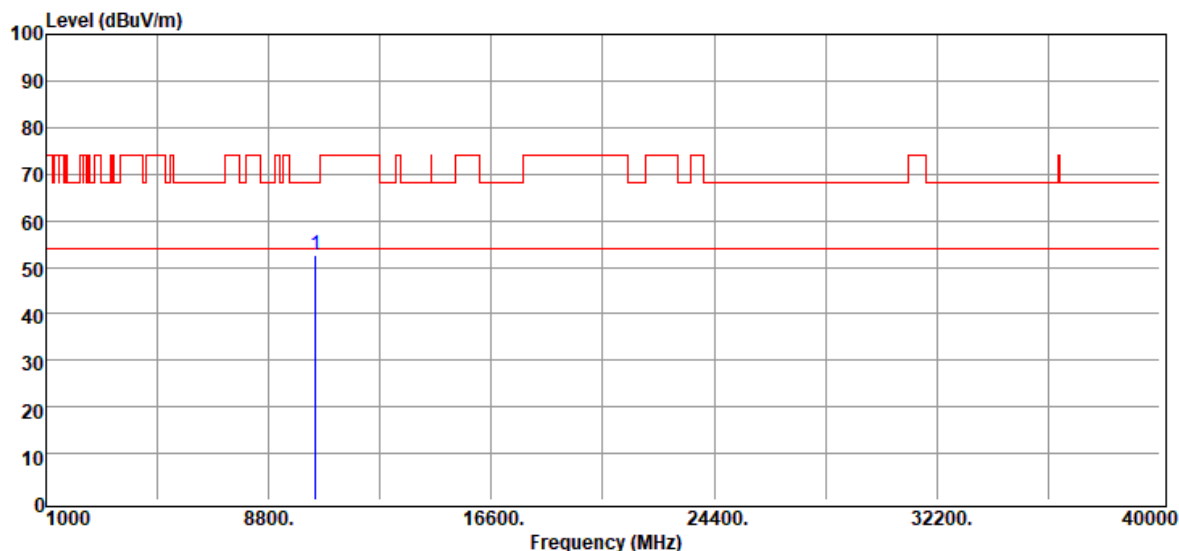
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Report Number :T190816W02
Operation Band :802.11n20/Band 1
Frequency :5220 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	37.48	15.21	52.69	68.20	-15.51

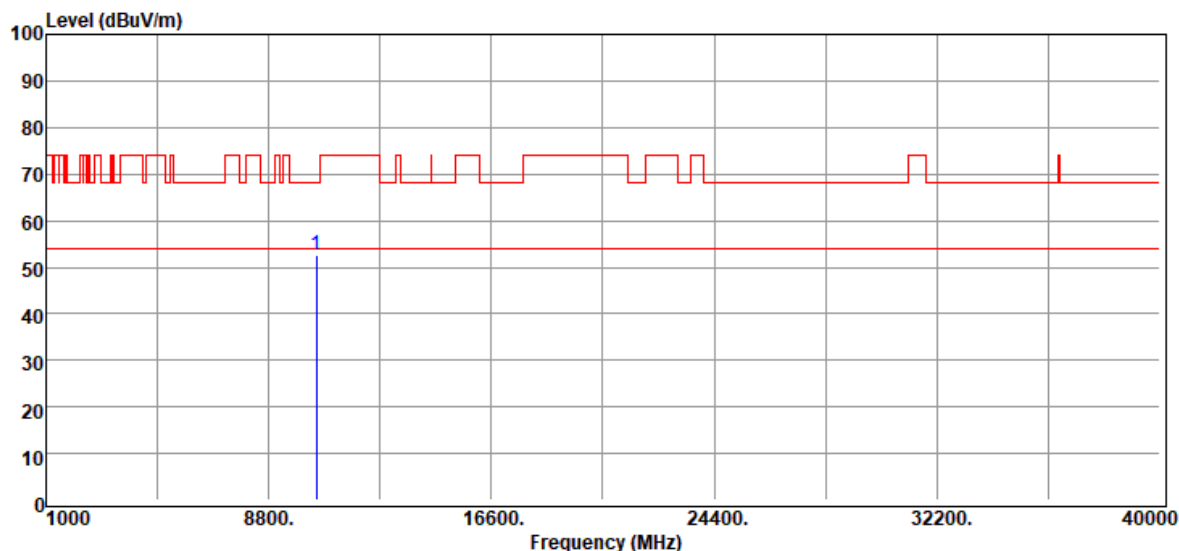
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Report Number :T190816W02
Operation Band :802.11n20/Band 1
Frequency :5240 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	36.56	16.09	52.65	68.20	-15.55

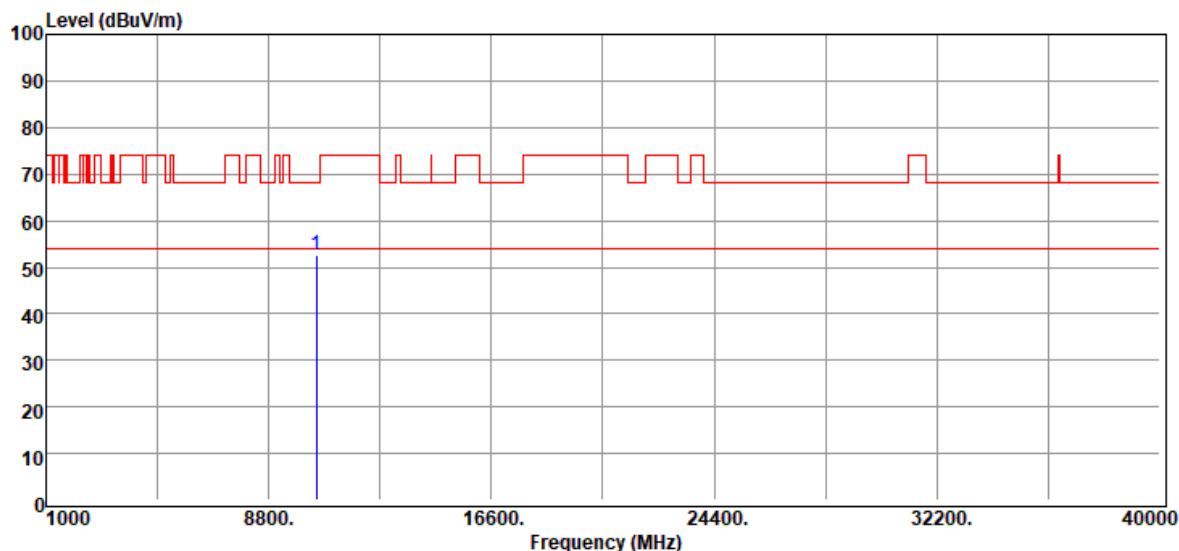
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Report Number :T190816W02
Operation Band :802.11n20/Band 1
Frequency :5240 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	36.45	16.09	52.54	68.20	-15.66

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

Report Number :T190816W02

Test Date :2019-08-21

Operation Band :802.11n20/Band 2

Temp./Humi. :26.1/53

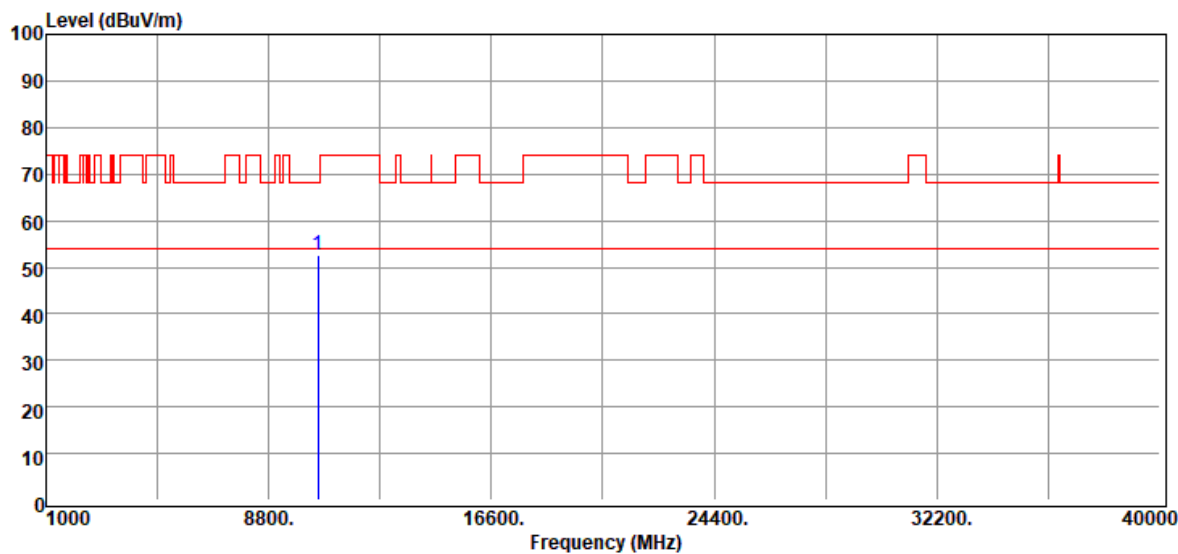
Frequency :5260 MHz

Antenna Pol. :VERTICAL

Operation Mode :TX CH LOW

Engineer :Kailin

EUT Pol. :H Plan



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	Peak	37.28	15.33	52.61	68.20	-15.59

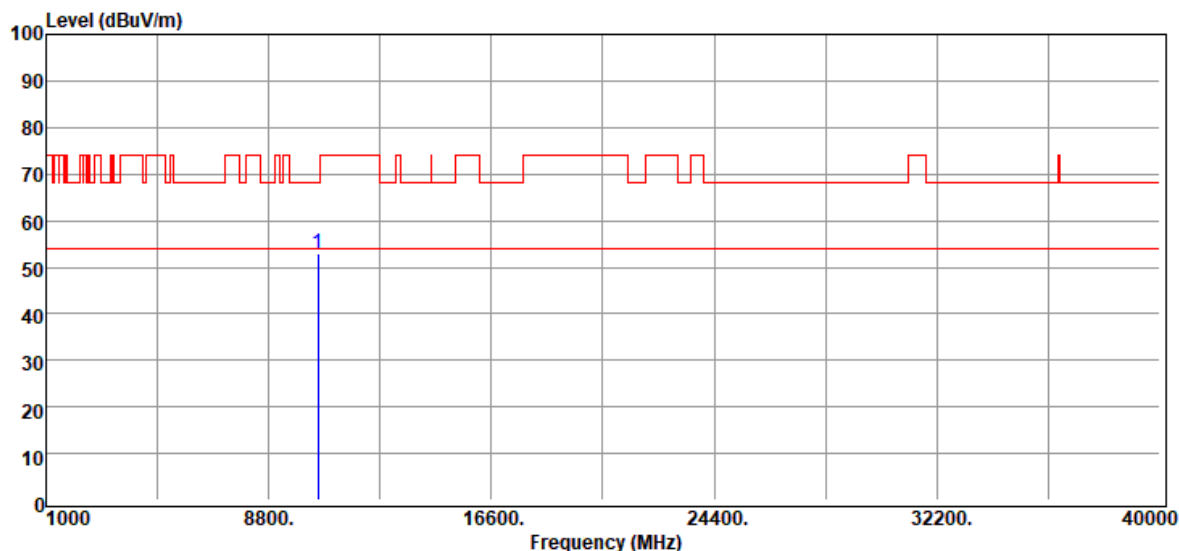
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Report Number :T190816W02
Operation Band :802.11n20/Band 2
Frequency :5260 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	37.74	15.33	53.07	68.20	-15.13

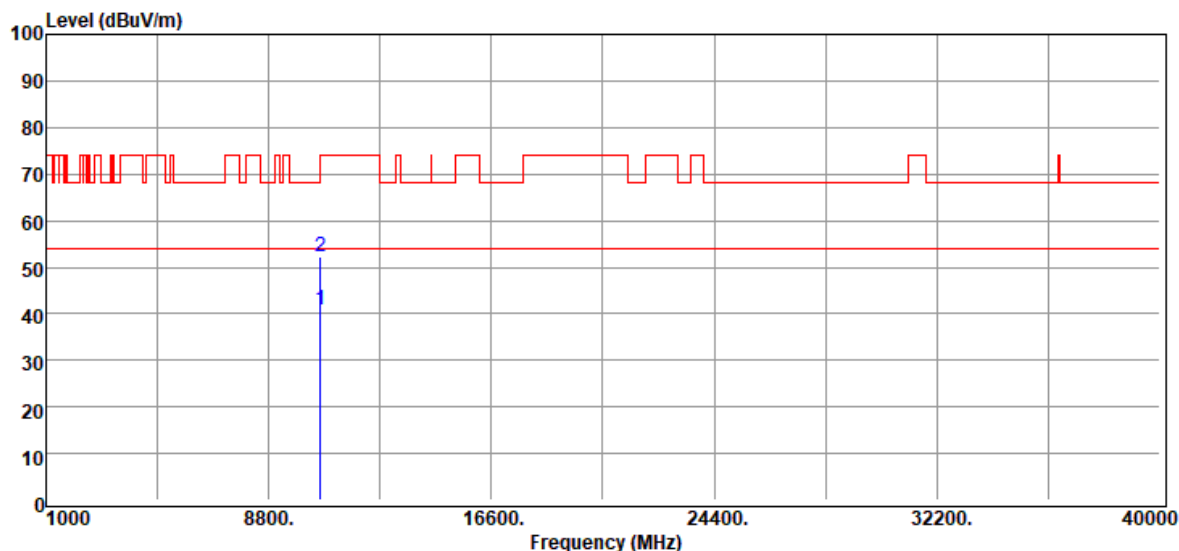
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Report Number :T190816W02
Operation Band :802.11n20/Band 2
Frequency :5300 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	26.31	14.56	40.87	54.00	-13.13
10600.00	Peak	37.63	14.56	52.19	74.00	-21.81

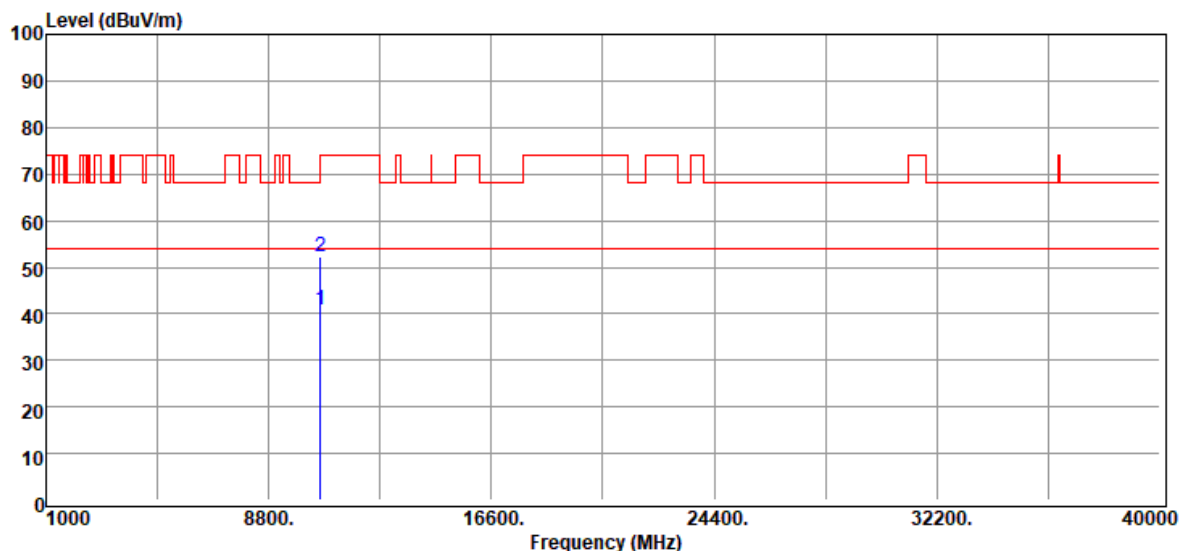
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Report Number :T190816W02
Operation Band :802.11n20/Band 2
Frequency :5300 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	26.25	14.56	40.81	54.00	-13.19
10600.00	Peak	37.66	14.56	52.22	74.00	-21.78

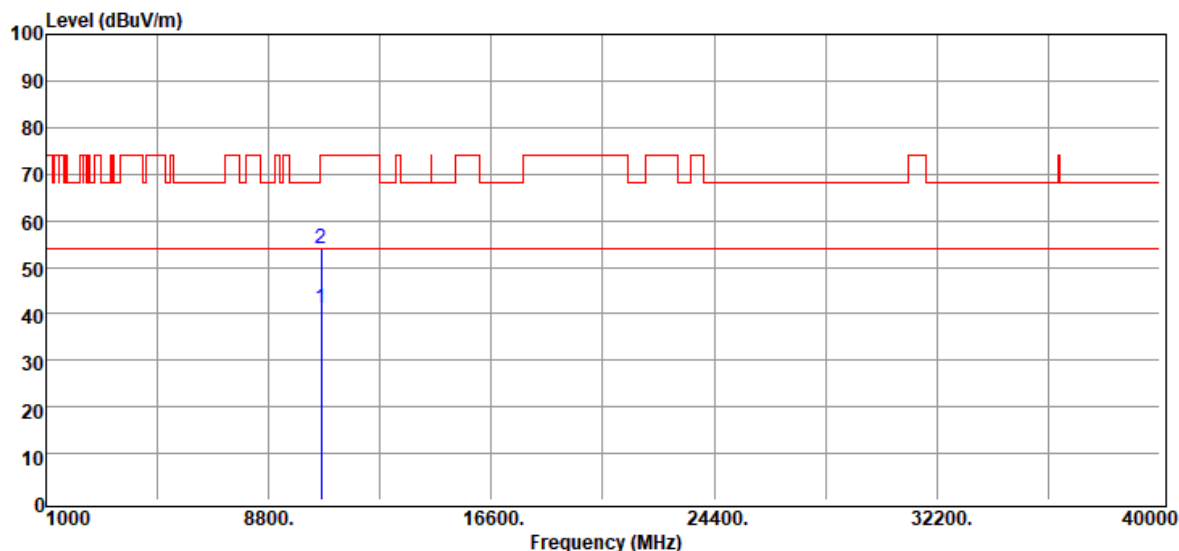
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Report Number :T190816W02
Operation Band :802.11n20/Band 2
Frequency :5320 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	26.19	15.05	41.24	54.00	-12.76
10640.00	Peak	39.02	15.05	54.07	74.00	-19.93

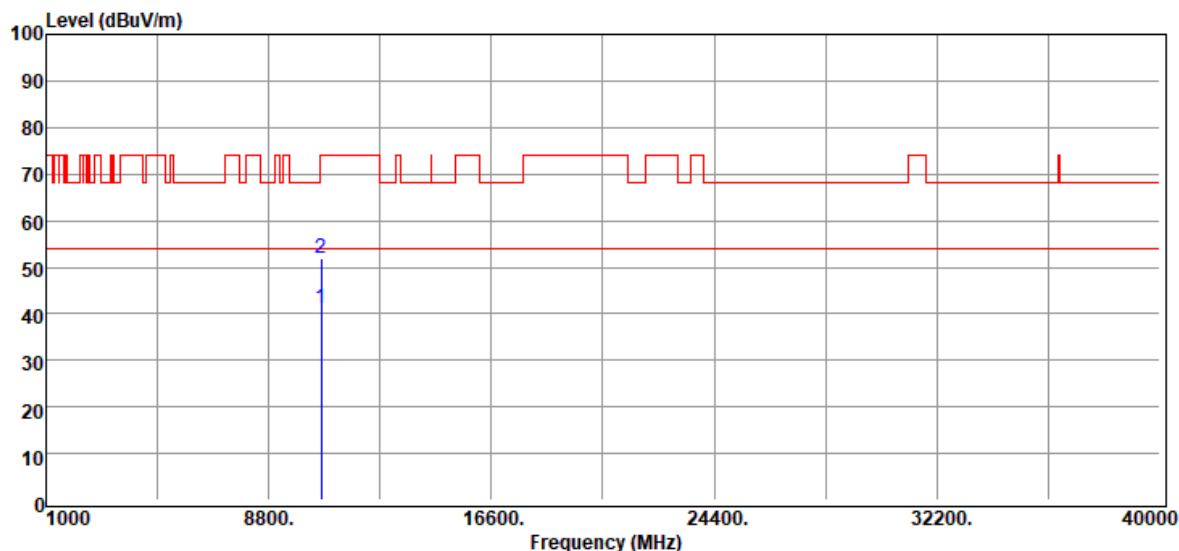
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Report Number :T190816W02
Operation Band :802.11n20/Band 2
Frequency :5320 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	26.12	15.05	41.17	54.00	-12.83
10640.00	Peak	36.82	15.05	51.87	74.00	-22.13

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

Report Number :T190816W02

Test Date :2019-08-21

Operation Band :802.11n20/Band 3

Temp./Humi. :26.1/53

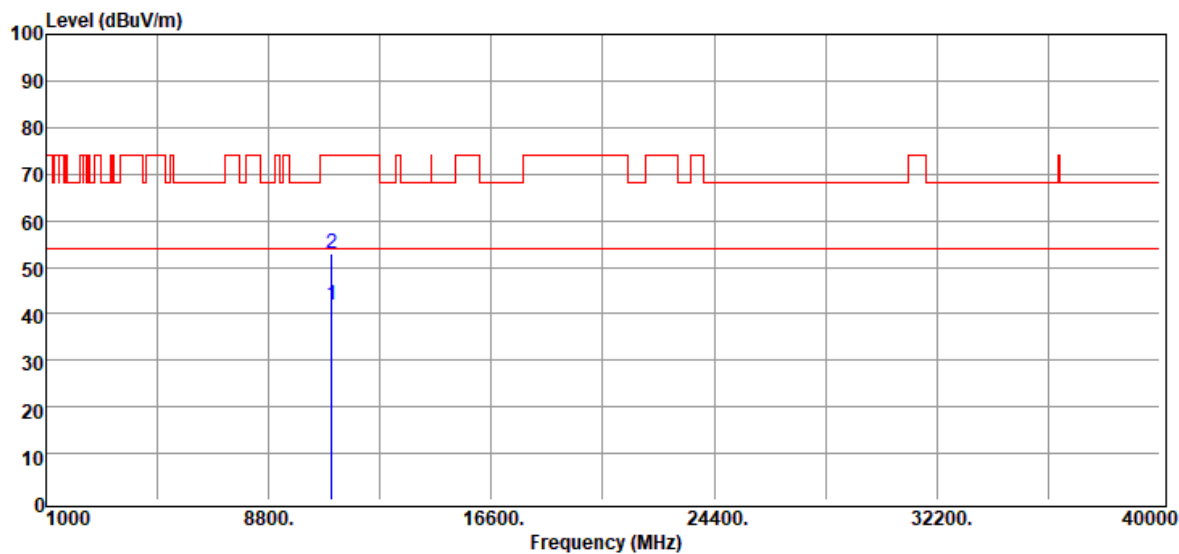
Frequency :5500 MHz

Antenna Pol. :VERTICAL

Operation Mode :TX CH LOW

Engineer :Kailin

EUT Pol. :H Plan



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11000.00	Average	26.18	15.80	41.98	54.00	-12.02
11000.00	Peak	37.21	15.80	53.01	74.00	-20.99

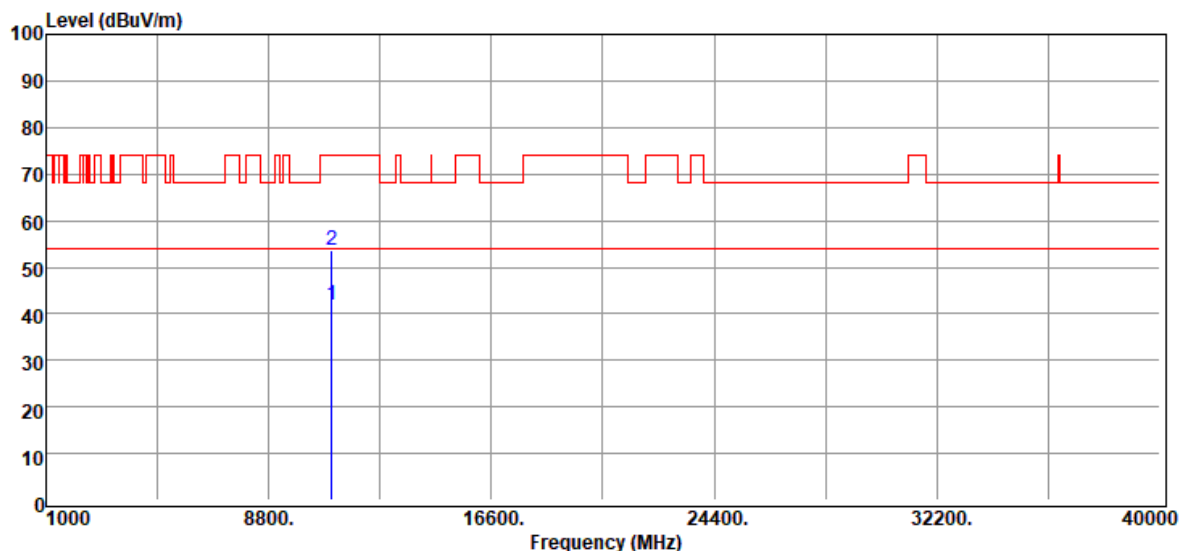
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Report Number :T190816W02
Operation Band :802.11n20/Band 3
Frequency :5500 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	26.17	15.80	41.97	54.00	-12.03
11000.00	Peak	37.91	15.80	53.71	74.00	-20.29

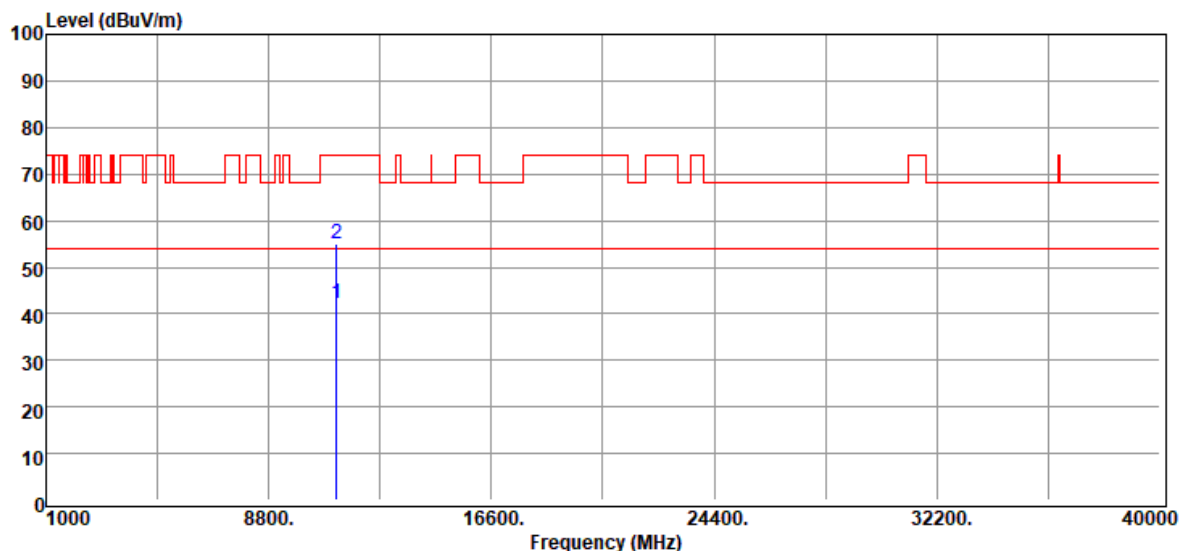
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Report Number :T190816W02
Operation Band :802.11n20/Band 3
Frequency :5580 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	26.14	16.17	42.31	54.00	-11.69
11160.00	Peak	38.70	16.17	54.87	74.00	-19.13

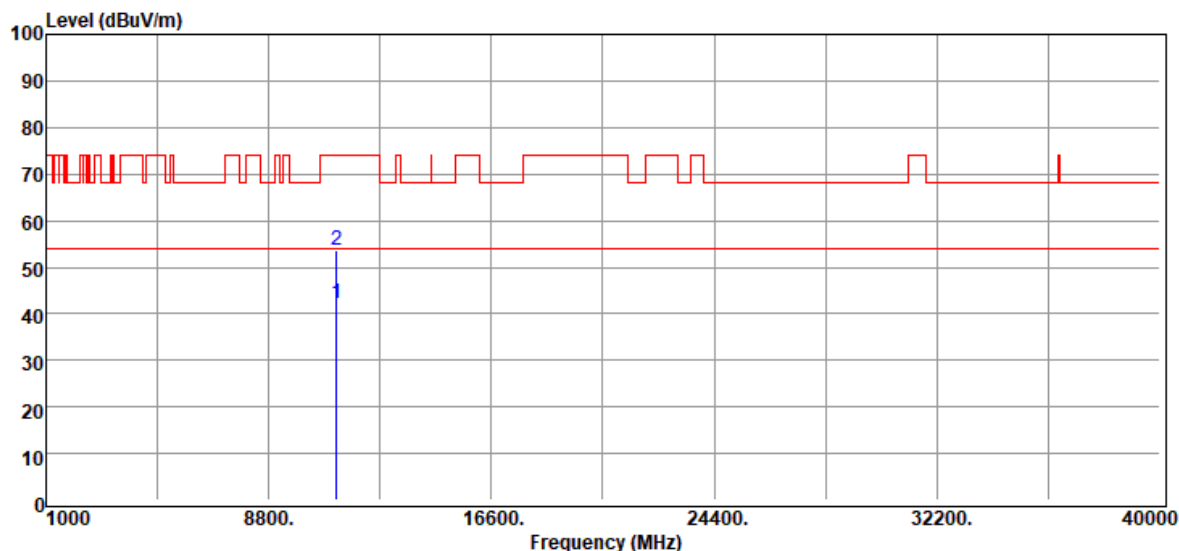
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Report Number :T190816W02
Operation Band :802.11n20/Band 3
Frequency :5580 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	26.15	16.17	42.32	54.00	-11.68
11161.30	Peak	37.60	16.16	53.76	74.00	-20.24

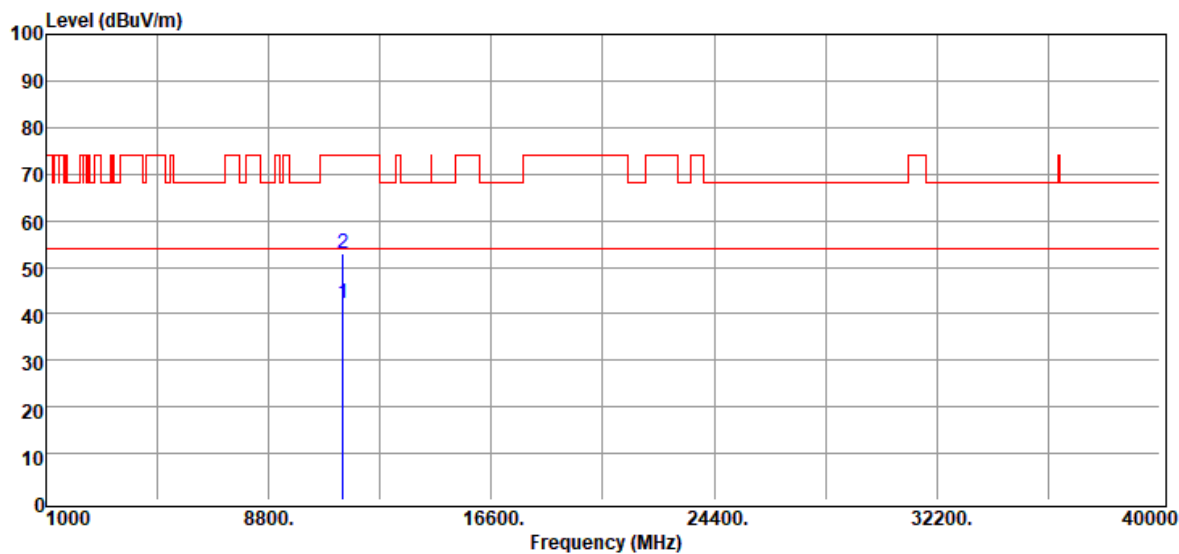
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Report Number :T190816W02
Operation Band :802.11n20/Band 3
Frequency :5700 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	26.20	15.94	42.14	54.00	-11.86
11400.00	Peak	36.95	15.94	52.89	74.00	-21.11

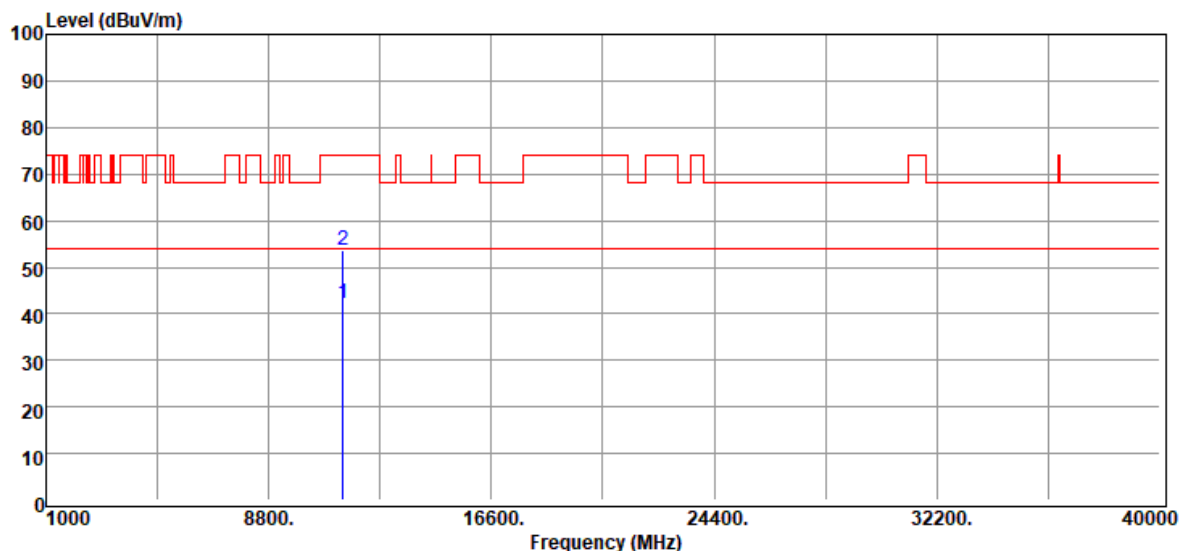
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Report Number :T190816W02
Operation Band :802.11n20/Band 3
Frequency :5700 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	26.17	15.94	42.11	54.00	-11.89
11400.00	Peak	37.58	15.94	53.52	74.00	-20.48

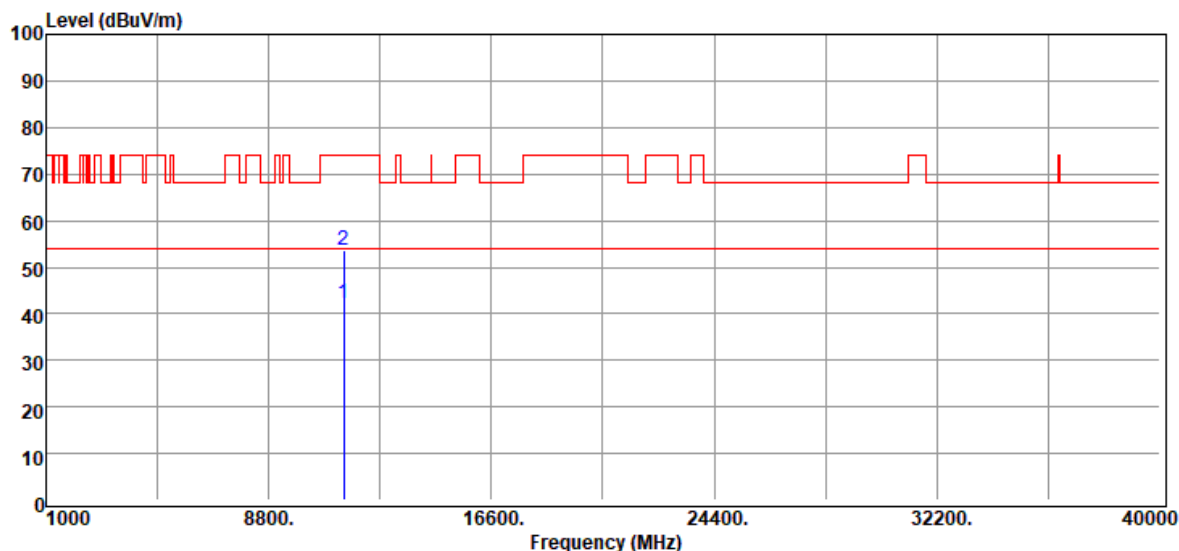
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Report Number :T190816W02
Operation Band :802.11n20/Band 3-4
Frequency :5720 MHz
Operation Mode :TX CH 144
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	26.13	16.11	42.24	54.00	-11.76
11440.00	Peak	37.47	16.11	53.58	74.00	-20.42

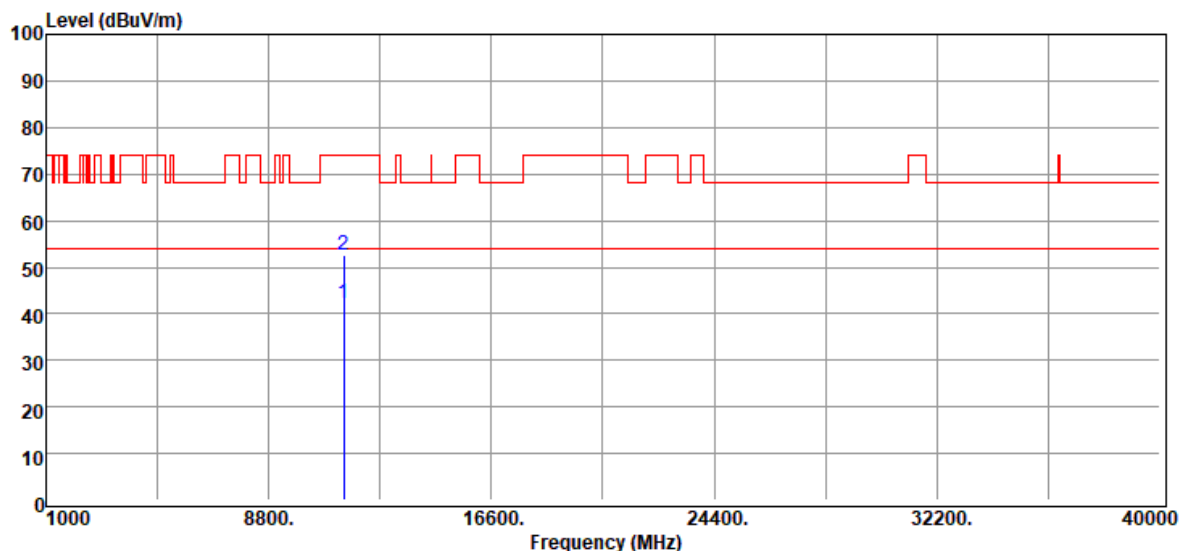
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Report Number :T190816W02
Operation Band :802.11n20/Band 3-4
Frequency :5720 MHz
Operation Mode :TX CH 144
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	26.22	16.11	42.33	54.00	-11.67
11440.00	Peak	36.47	16.11	52.58	74.00	-21.42

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

Report Number :T190816W02

Test Date :2019-08-21

Operation Band :802.11n20/Band 4

Temp./Humi. :26.1/53

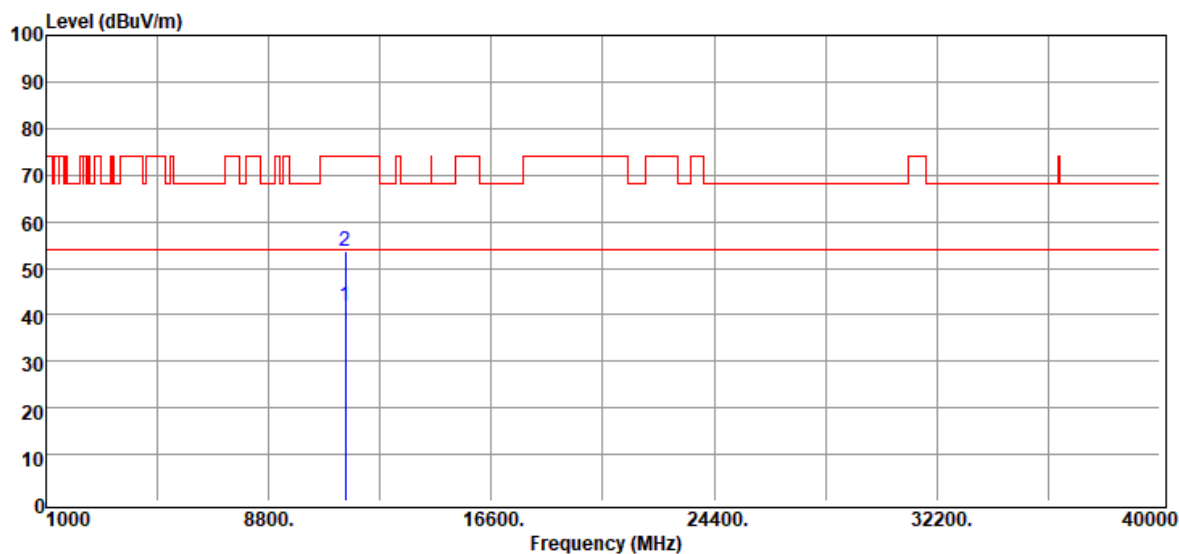
Frequency :5745 MHz

Antenna Pol. :VERTICAL

Operation Mode :TX CH LOW

Engineer :Kailin

EUT Pol. :H Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	26.20	15.57	41.77	54.00	-12.23
11490.00	Peak	38.09	15.57	53.66	74.00	-20.34

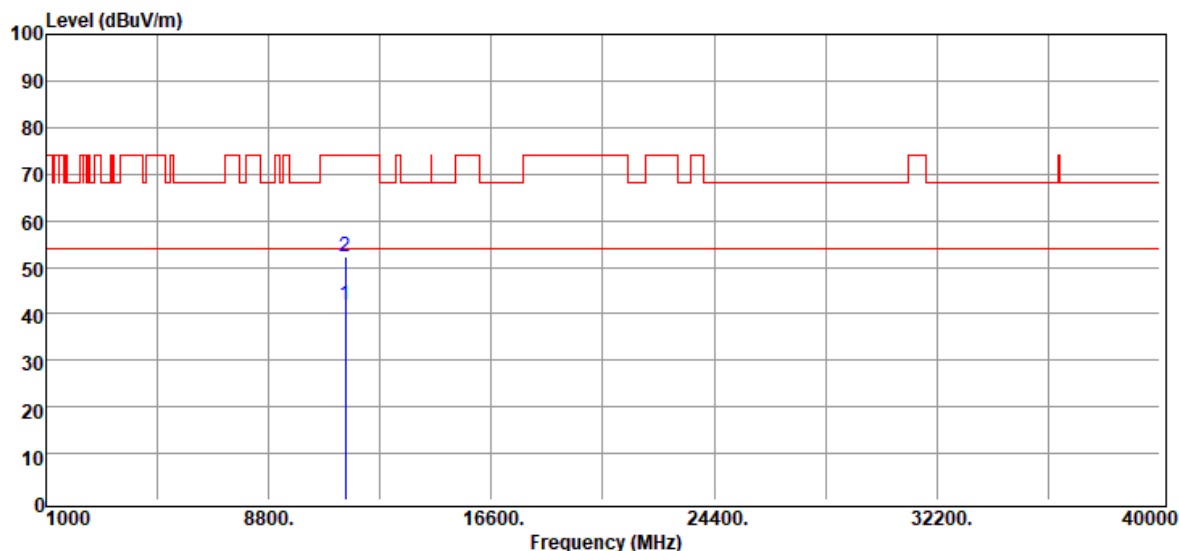
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Report Number :T190816W02
Operation Band :802.11n20/Band 4
Frequency :5745 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	26.27	15.57	41.84	54.00	-12.16
11490.00	Peak	36.51	15.57	52.08	74.00	-21.92

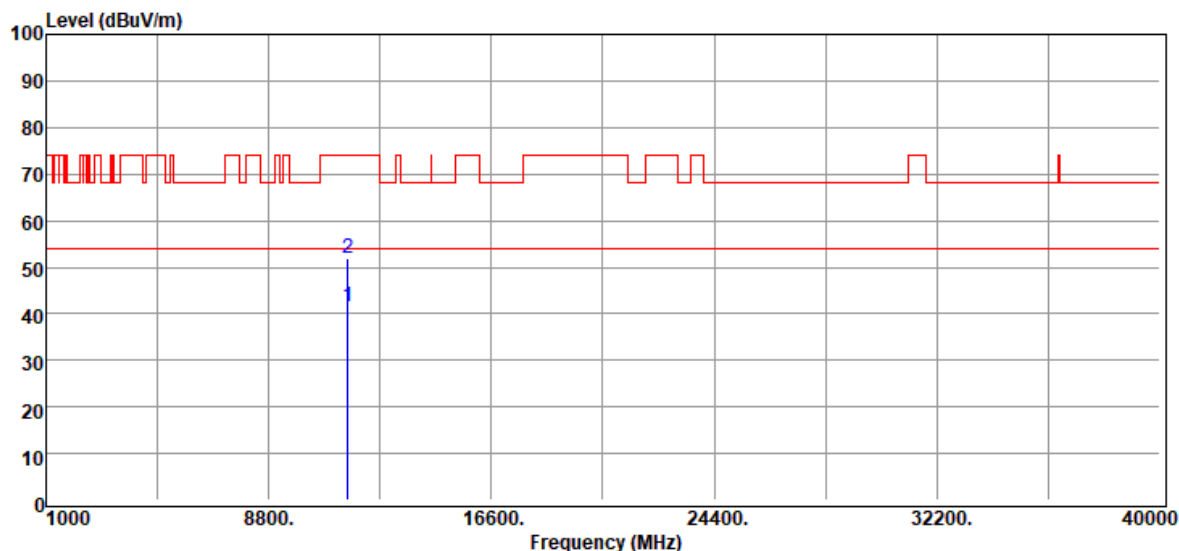
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Report Number :T190816W02
Operation Band :802.11n20/Band 4
Frequency :5785 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	26.14	15.50	41.64	54.00	-12.36
11570.00	Peak	36.41	15.50	51.91	74.00	-22.09

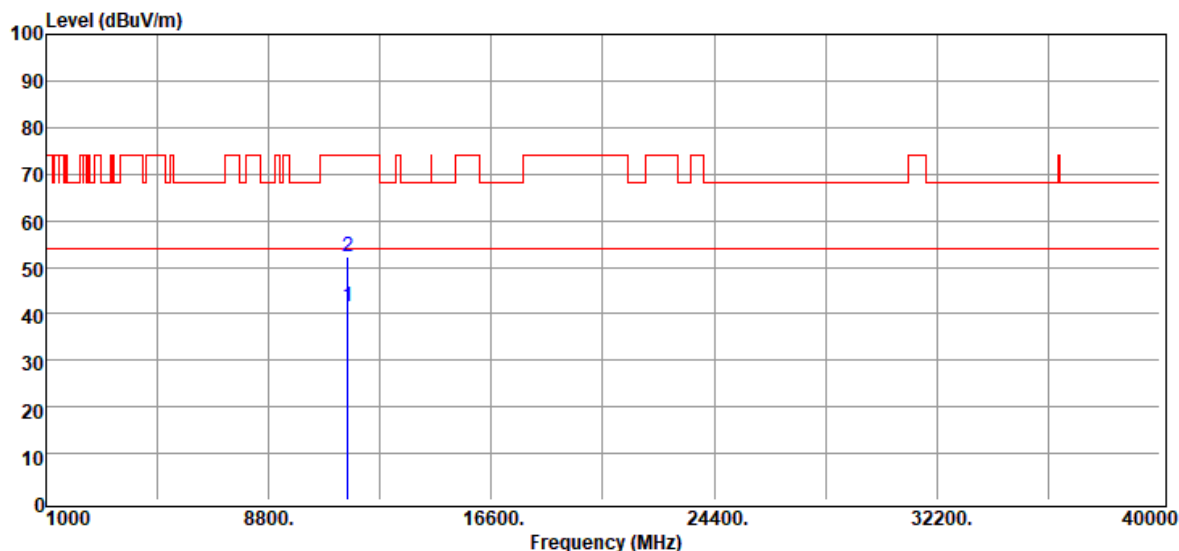
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Report Number :T190816W02
Operation Band :802.11n20/Band 4
Frequency :5785 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	26.18	15.50	41.68	54.00	-12.32
11570.00	Peak	36.84	15.50	52.34	74.00	-21.66

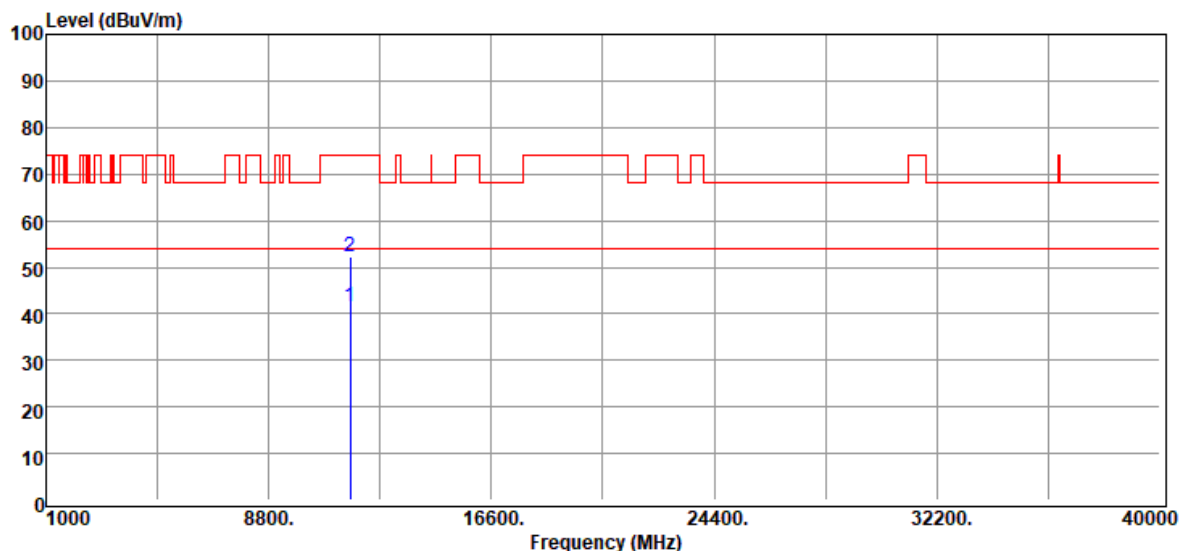
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Report Number :T190816W02
Operation Band :802.11n20/Band 4
Frequency :5825 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	26.09	15.53	41.62	54.00	-12.38
11650.00	Peak	36.66	15.53	52.19	74.00	-21.81

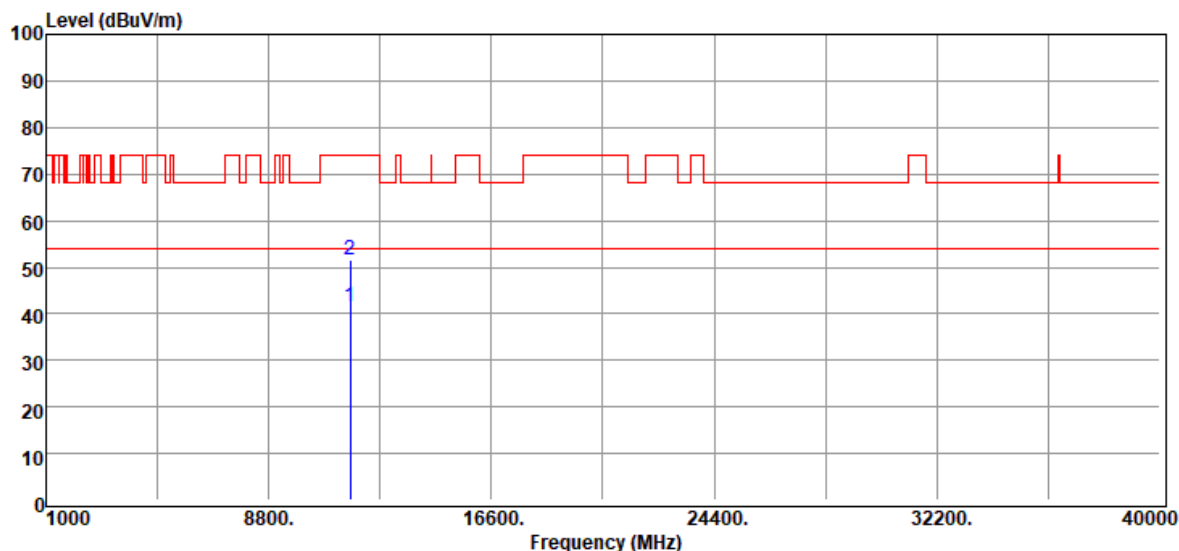
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Report Number :T190816W02
Operation Band :802.11n20/Band 4
Frequency :5825 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	26.06	15.53	41.59	54.00	-12.41
11650.00	Peak	36.06	15.53	51.59	74.00	-22.41

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

Report Number :T190816W02

Test Date :2019-08-21

Operation Band :802.11n40/Band 1

Temp./Humi. :26.1/53

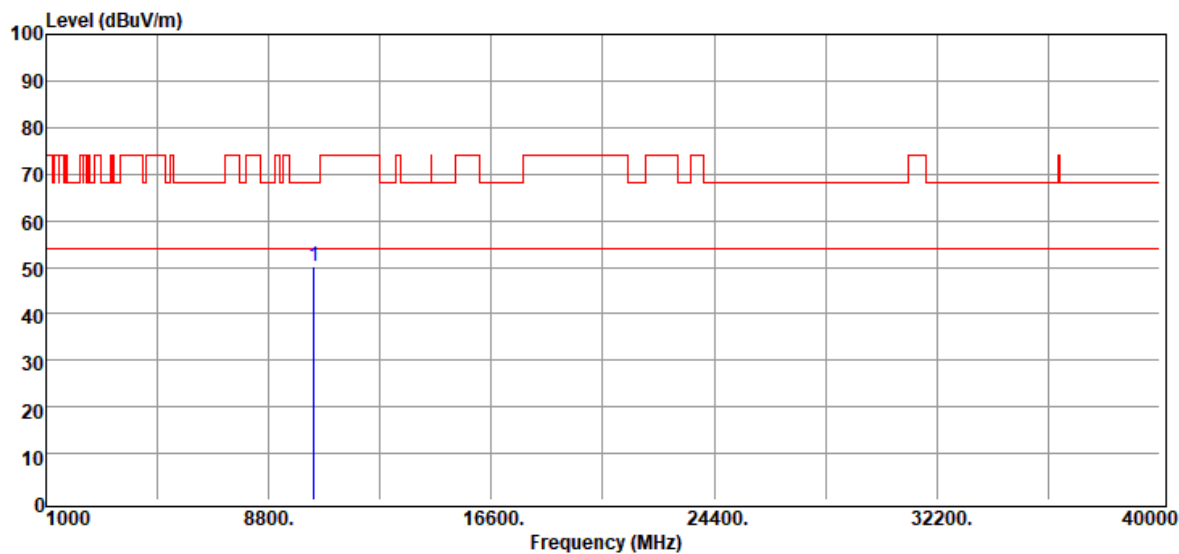
Frequency :5190 MHz

Antenna Pol. :VERTICAL

Operation Mode :TX CH LOW

Engineer :Kailin

EUT Pol. :H Plan



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10380.00	Peak	35.95	14.23	50.18	68.20	-18.02

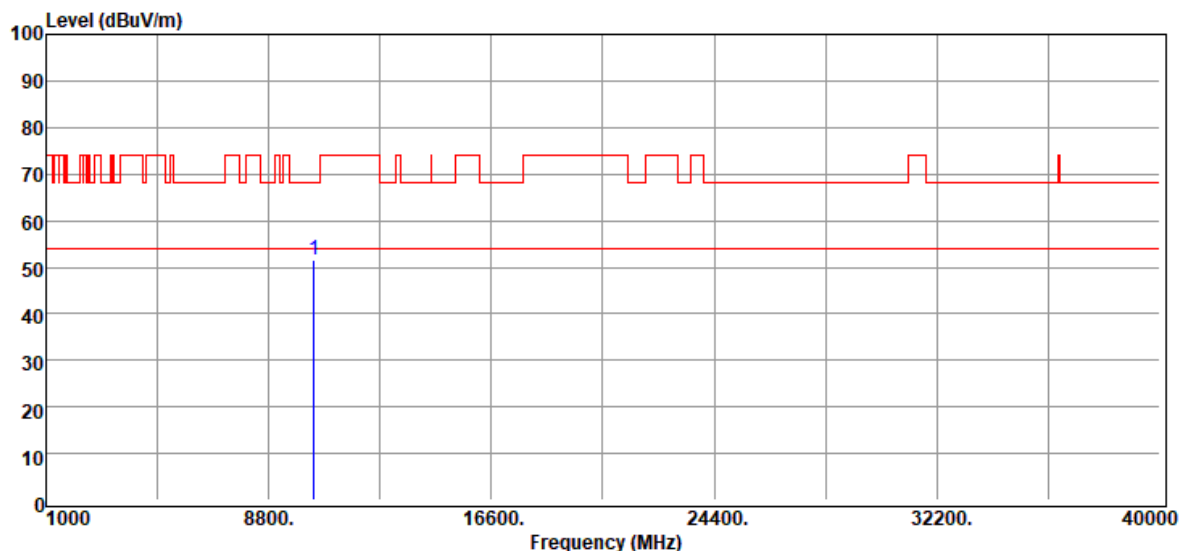
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Report Number :T190816W02
Operation Band :802.11n40/Band 1
Frequency :5190 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	37.19	14.23	51.42	68.20	-16.78

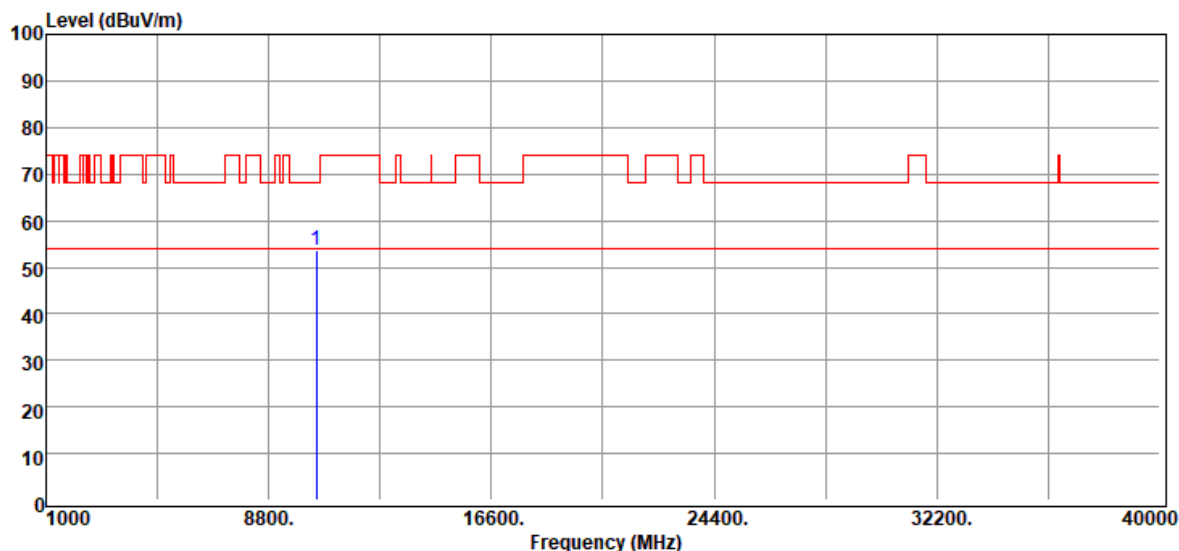
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Report Number :T190816W02
Operation Band :802.11n40/Band 1
Frequency :5230 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	37.91	15.65	53.56	68.20	-14.64

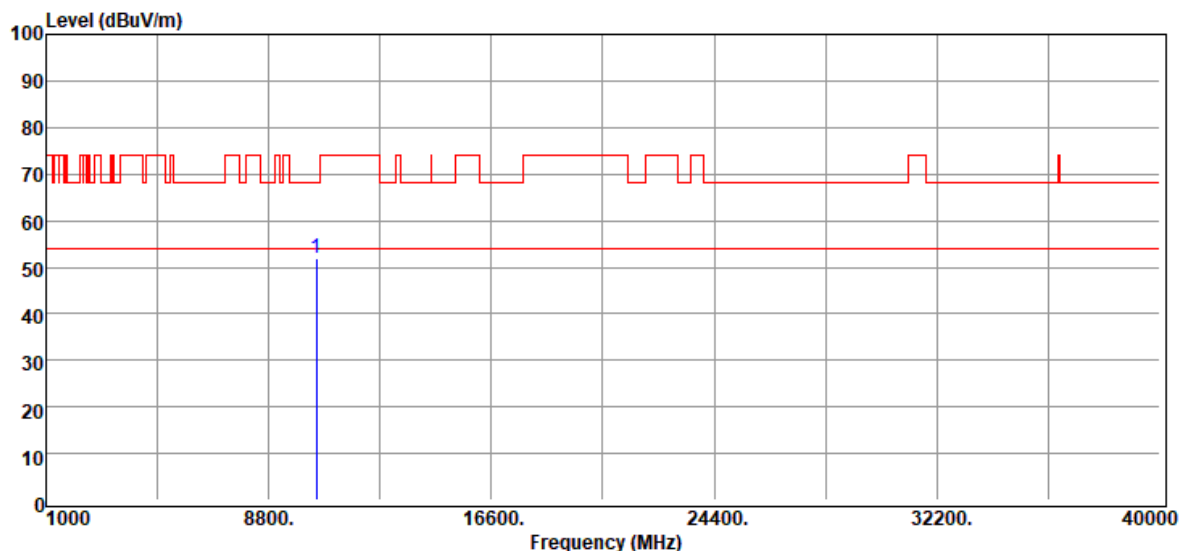
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Report Number :T190816W02
Operation Band :802.11n40/Band 1
Frequency :5230 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	36.20	15.65	51.85	68.20	-16.35

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

Report Number :T190816W02

Test Date :2019-08-21

Operation Band :802.11n40/Band 2

Temp./Humi. :26.1/53

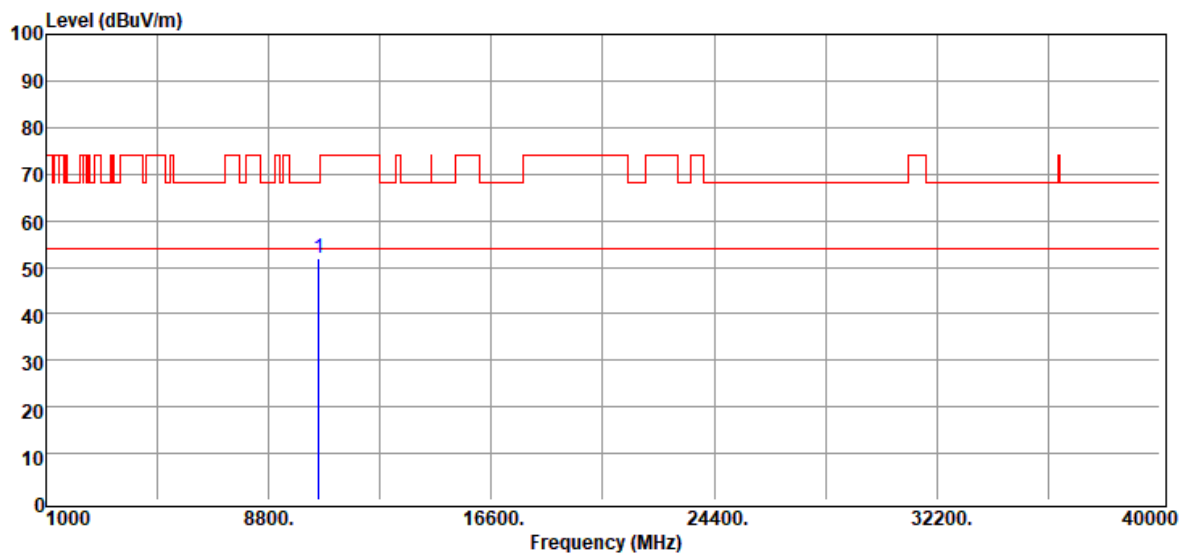
Frequency :5270 MHz

Antenna Pol. :VERTICAL

Operation Mode :TX CH LOW

Engineer :Kailin

EUT Pol. :H Plan



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10540.00	Peak	36.88	14.95	51.83	68.20	-16.37

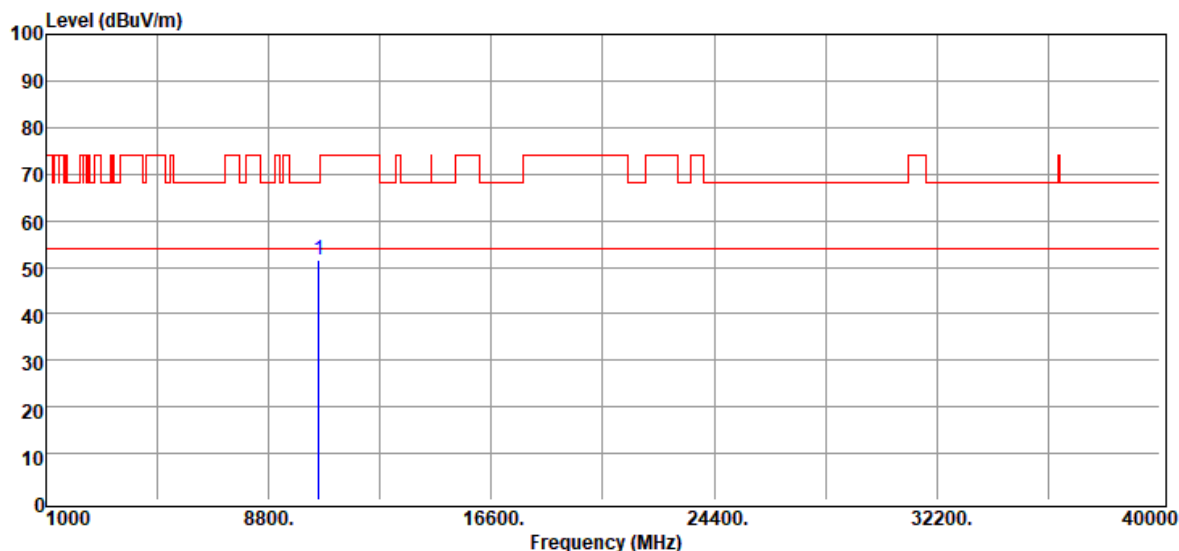
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Report Number :T190816W02
Operation Band :802.11n40/Band 2
Frequency :5270 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	Peak	36.52	14.95	51.47	68.20	-16.73

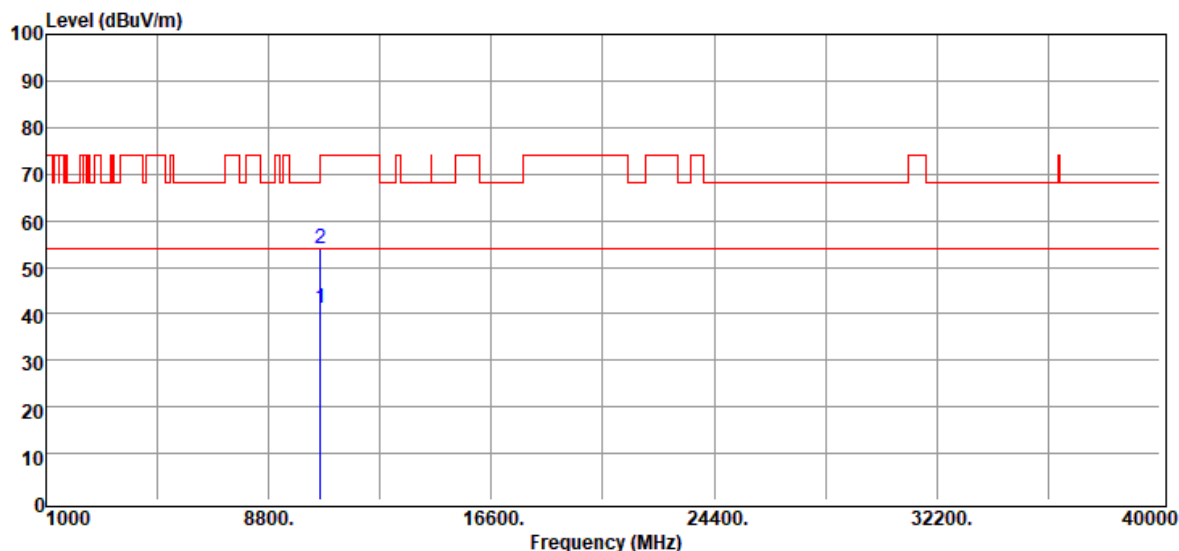
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Report Number :T190816W02
Operation Band :802.11n40/Band 2
Frequency :5310 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	Average	26.31	14.81	41.12	54.00	-12.88
10620.00	Peak	39.11	14.81	53.92	74.00	-20.08

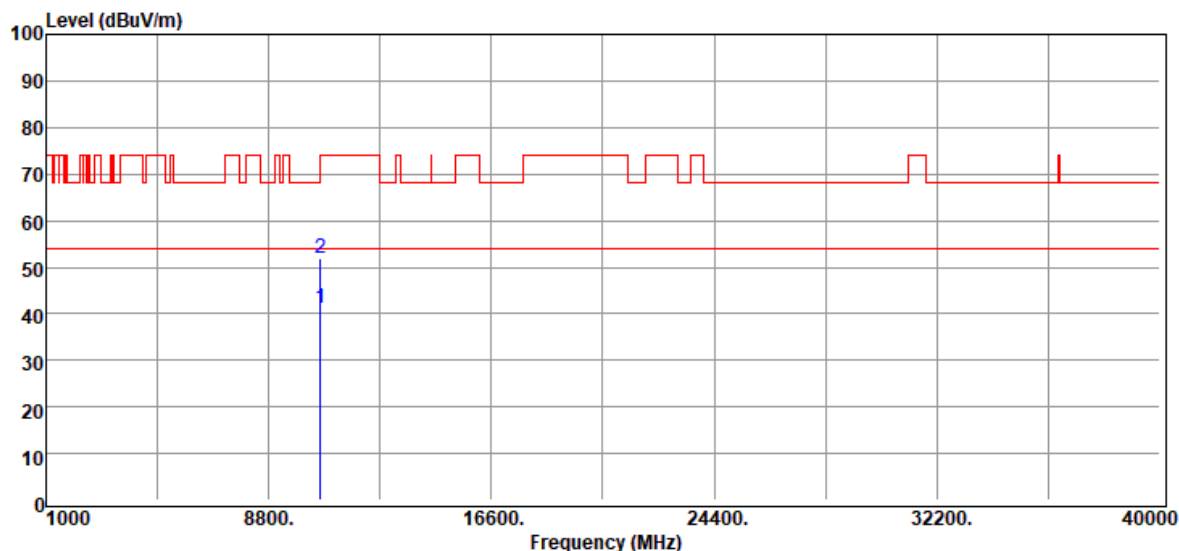
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Report Number :T190816W02
Operation Band :802.11n40/Band 2
Frequency :5310 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	Average	26.34	14.81	41.15	54.00	-12.85
10620.00	Peak	37.06	14.81	51.87	74.00	-22.13

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

Report Number :T190816W02

Test Date :2019-08-21

Operation Band :802.11n40/Band 3

Temp./Humi. :26.1/53

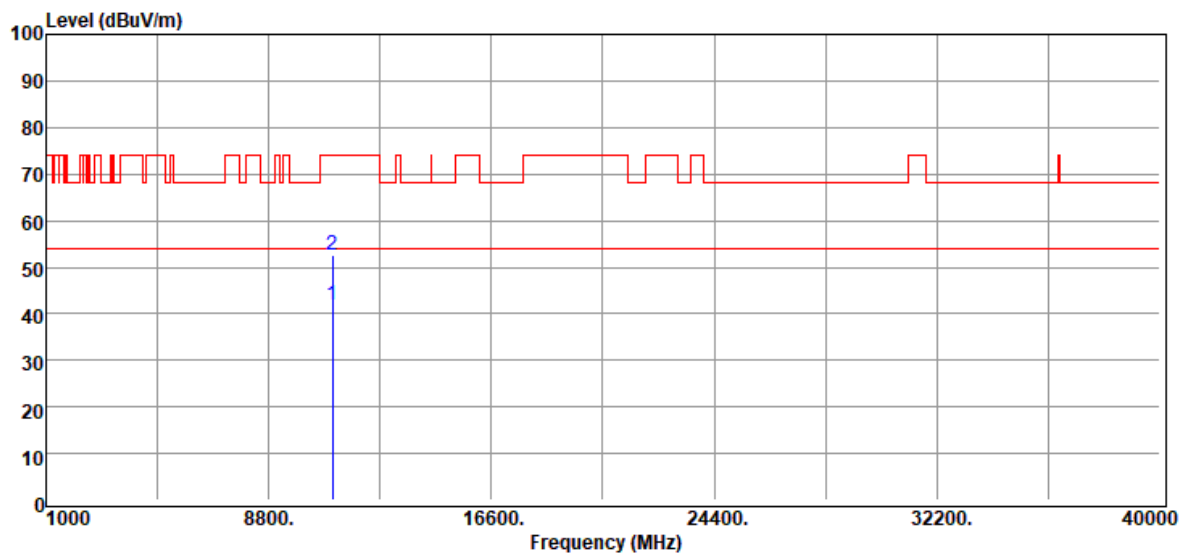
Frequency :5510 MHz

Antenna Pol. :VERTICAL

Operation Mode :TX CH LOW

Engineer :Kailin

EUT Pol. :H Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	Average	26.14	15.84	41.98	54.00	-12.02
11020.00	Peak	36.59	15.84	52.43	74.00	-21.57

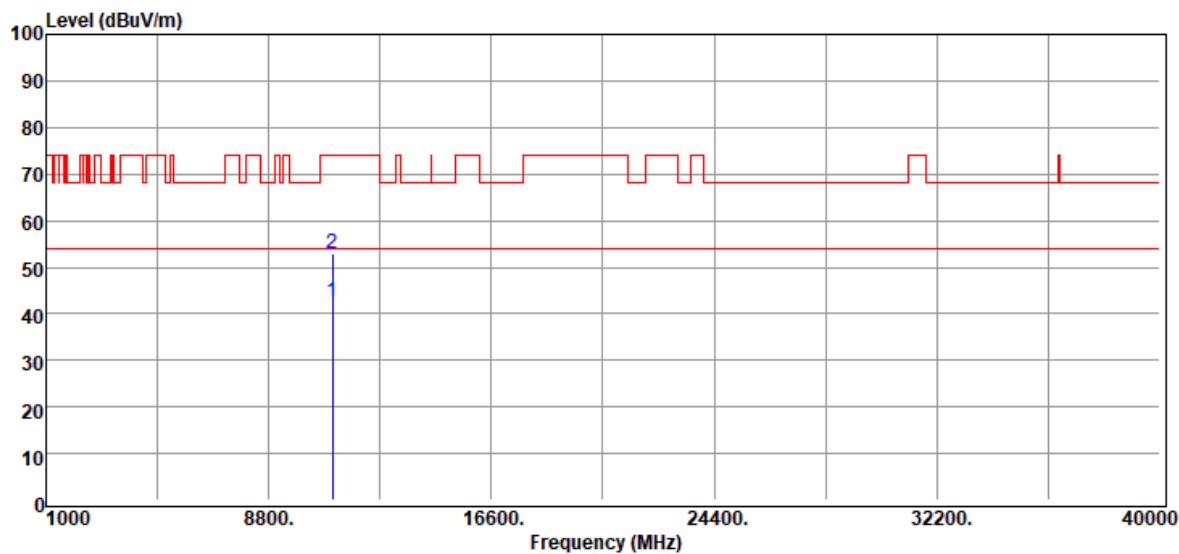
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Report Number :T190816W02
Operation Band :802.11n40/Band 3
Frequency :5510 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	Average	26.72	15.84	42.56	54.00	-11.44
11020.00	Peak	37.12	15.84	52.96	74.00	-21.04

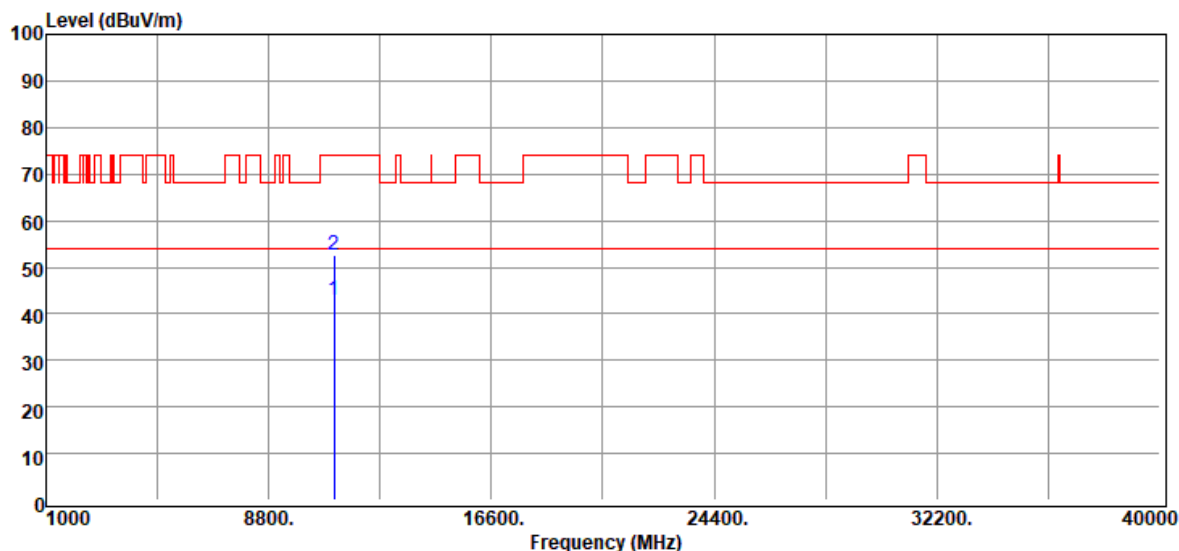
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Report Number :T190816W02
Operation Band :802.11n40/Band 3
Frequency :5550 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Average	26.35	16.39	42.74	54.00	-11.26
11100.00	Peak	36.14	16.39	52.53	74.00	-21.47

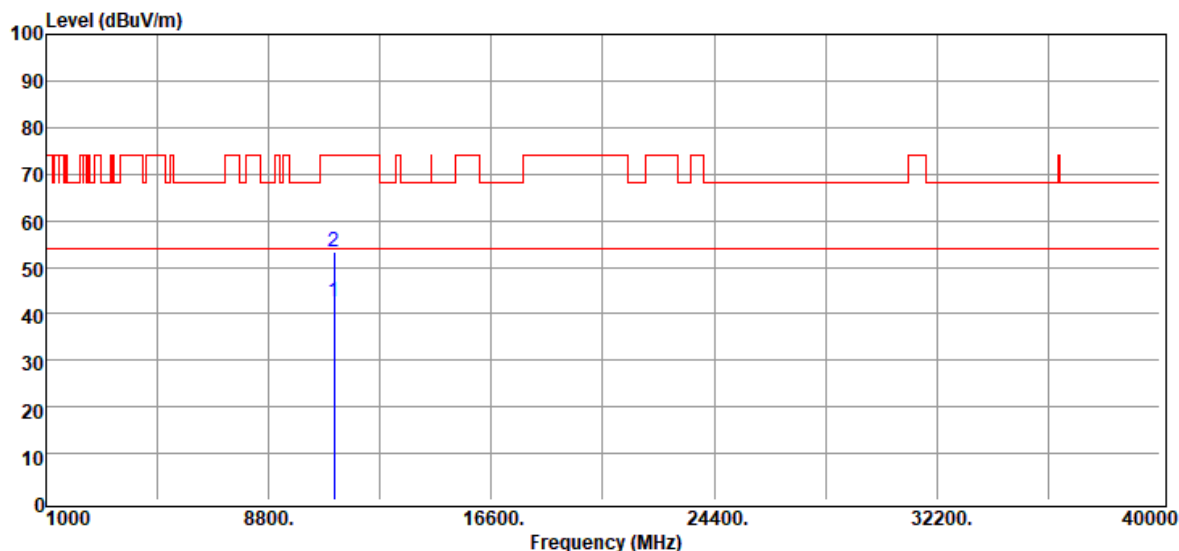
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Report Number :T190816W02
Operation Band :802.11n40/Band 3
Frequency :5550 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Average	26.17	16.39	42.56	54.00	-11.44
11100.00	Peak	36.74	16.39	53.13	74.00	-20.87

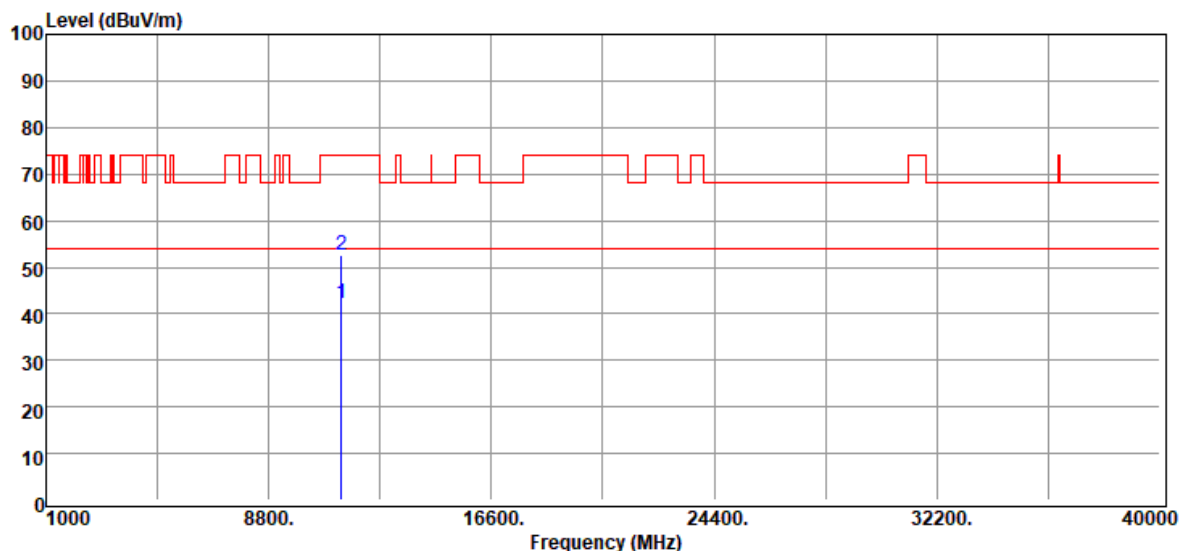
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Report Number :T190816W02
Operation Band :802.11n40/Band 3
Frequency :5670 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	Average	26.16	15.99	42.15	54.00	-11.85
11340.00	Peak	36.63	15.99	52.62	74.00	-21.38

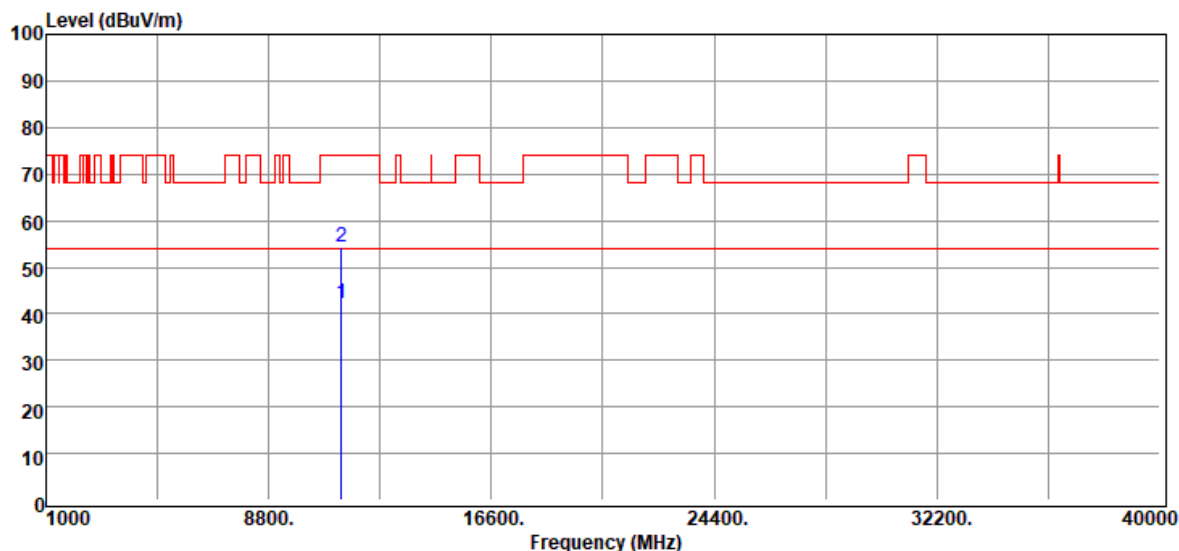
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Report Number :T190816W02
Operation Band :802.11n40/Band 3
Frequency :5670 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	Average	26.09	15.99	42.08	54.00	-11.92
11340.00	Peak	38.25	15.99	54.24	74.00	-19.76

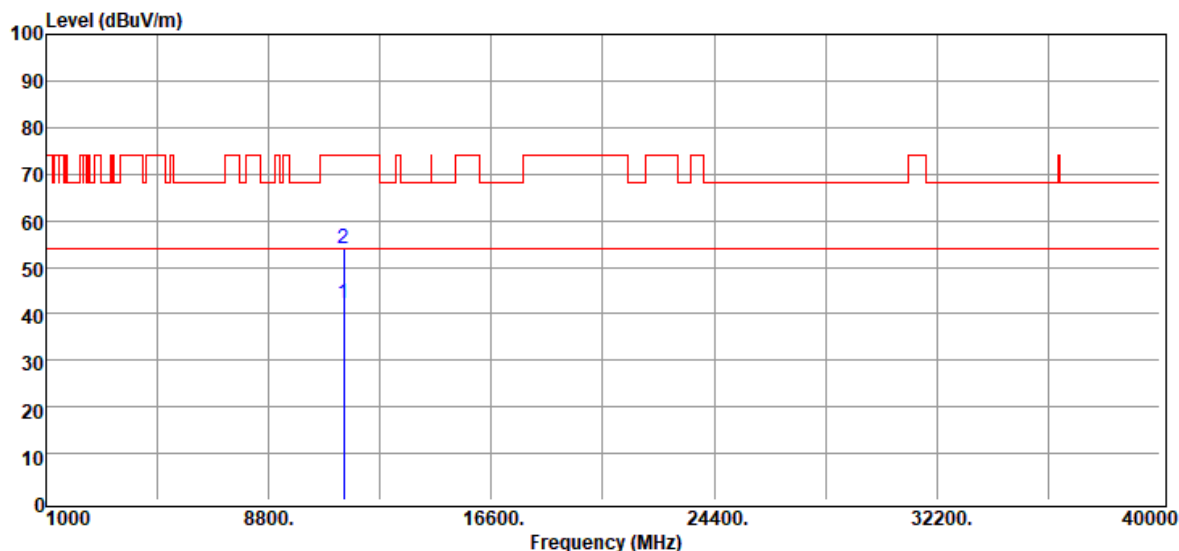
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Report Number :T190816W02
Operation Band :802.11n40/Band 3-4
Frequency :5710 MHz
Operation Mode :TX CH 142
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	Average	26.34	16.03	42.37	54.00	-11.63
11420.00	Peak	38.04	16.03	54.07	74.00	-19.93

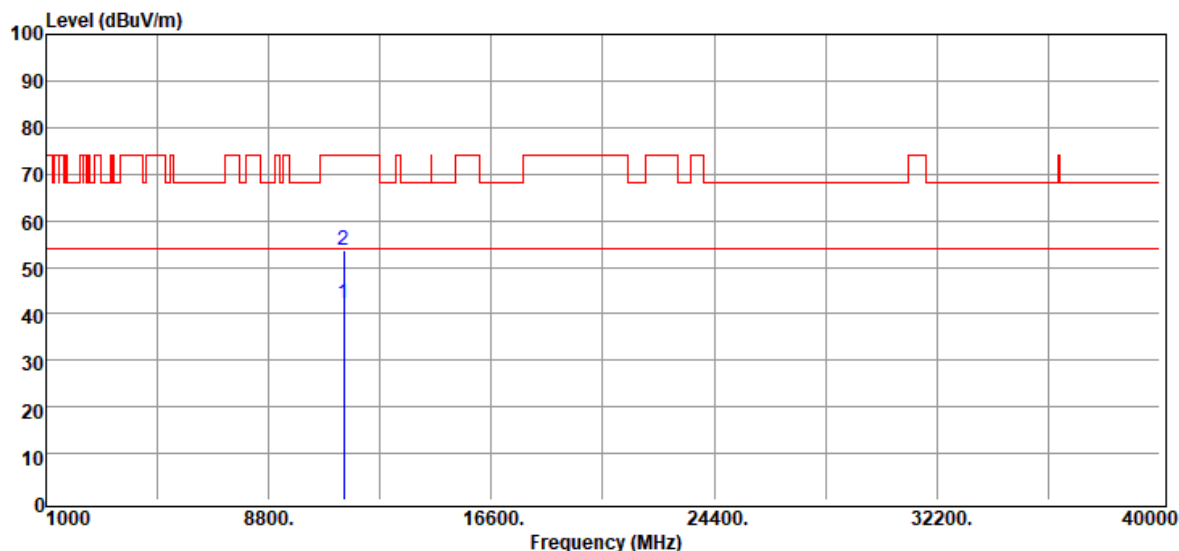
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Report Number :T190816W02
Operation Band :802.11n40/Band 3-4
Frequency :5710 MHz
Operation Mode :TX CH 142
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	Average	26.33	16.03	42.36	54.00	-11.64
11420.00	Peak	37.75	16.03	53.78	74.00	-20.22

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

Report Number :T190816W02

Test Date :2019-08-21

Operation Band :802.11n40/Band 4

Temp./Humi. :26.1/53

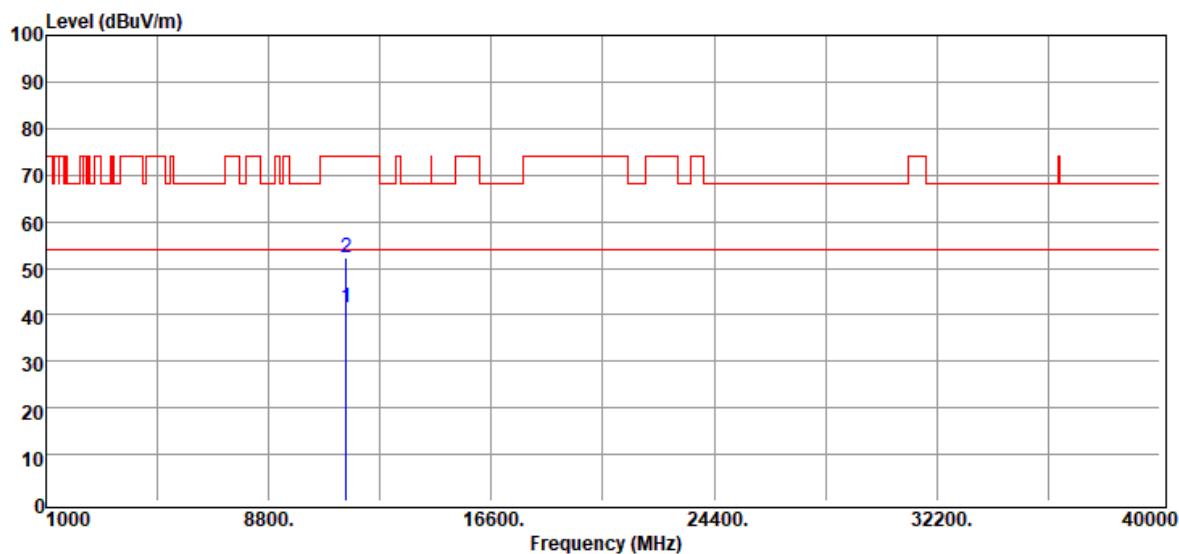
Frequency :5755 MHz

Antenna Pol. :VERTICAL

Operation Mode :TX CH LOW

Engineer :Kailin

EUT Pol. :H Plan



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11510.00	Average	26.29	15.35	41.64	54.00	-12.36
11510.00	Peak	36.86	15.35	52.21	74.00	-21.79

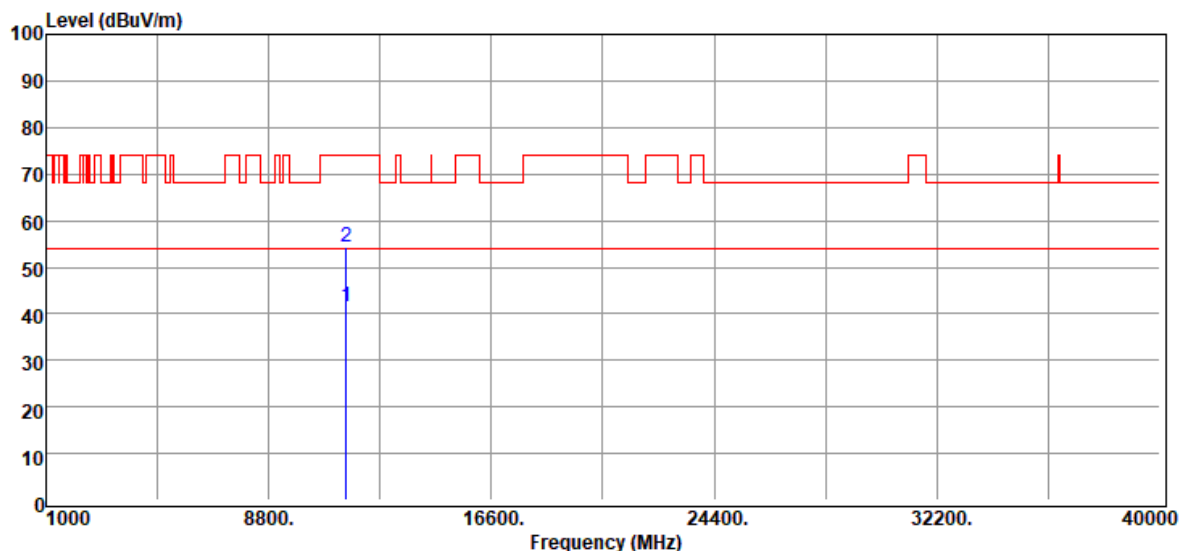
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Report Number :T190816W02
Operation Band :802.11n40/Band 4
Frequency :5755 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	26.32	15.35	41.67	54.00	-12.33
11510.00	Peak	38.93	15.35	54.28	74.00	-19.72

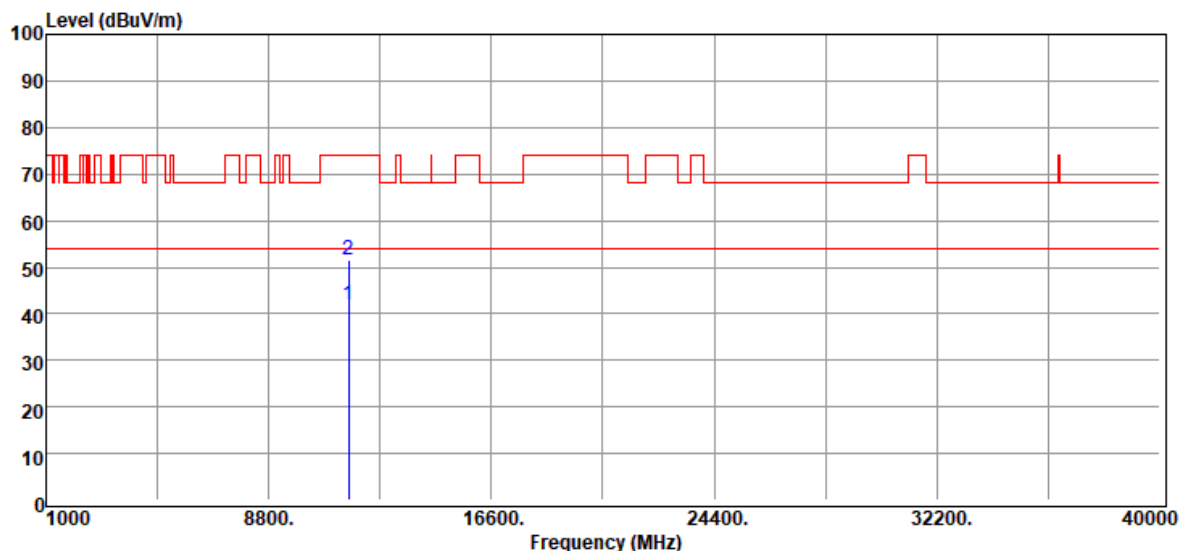
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Report Number :T190816W02
Operation Band :802.11n40/Band 4
Frequency :5795 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	26.14	15.62	41.76	54.00	-12.24
11590.00	Peak	36.05	15.62	51.67	74.00	-22.33

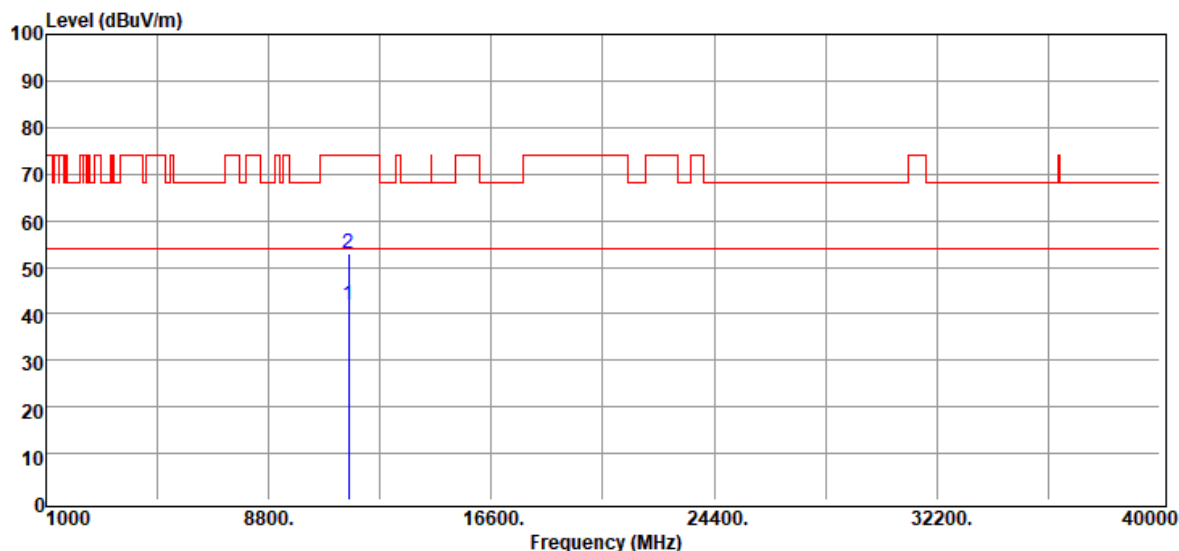
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Report Number :T190816W02
Operation Band :802.11n40/Band 4
Frequency :5795 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	26.27	15.62	41.89	54.00	-12.11
11590.00	Peak	37.37	15.62	52.99	74.00	-21.01

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

Report Number :T190816W02

Test Date :2019-08-21

Operation Band :802.11ac80/Band 1

Temp./Humi. :26.1/53

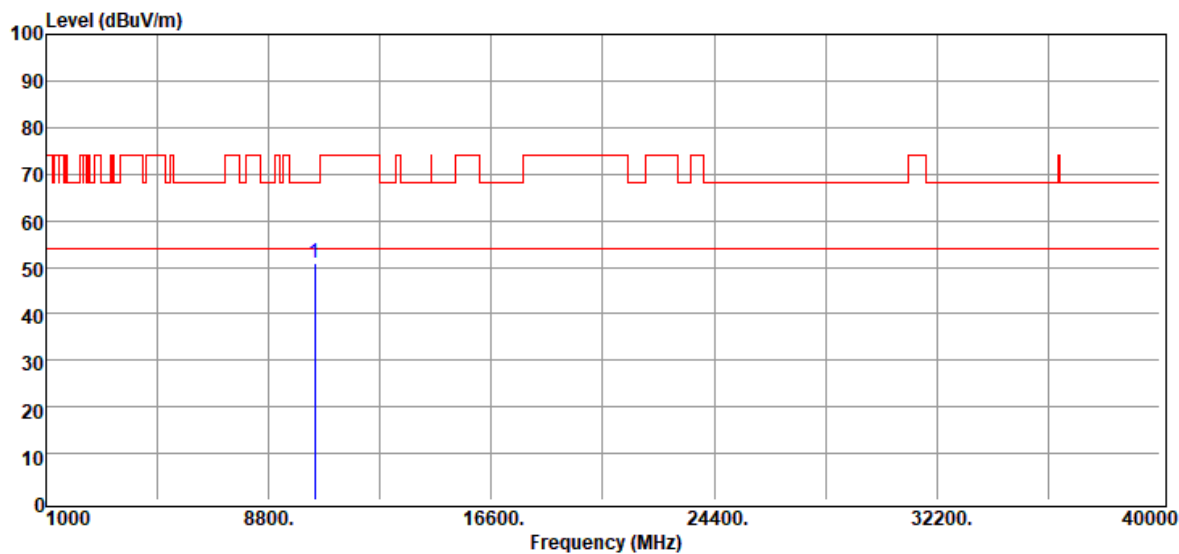
Frequency :5210 MHz

Antenna Pol. :VERTICAL

Operation Mode :TX CH LOW

Engineer :Kailin

EUT Pol. :H Plan



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10420.00	Peak	36.19	14.78	50.97	68.20	-17.23

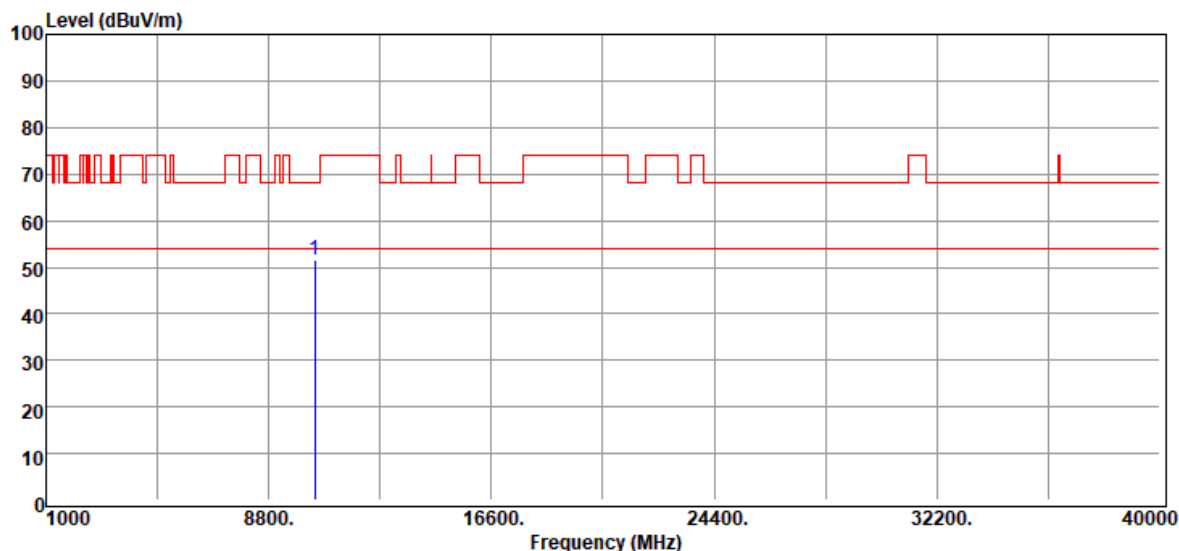
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Report Number :T190816W02
Operation Band :802.11ac80/Band 1
Frequency :5210 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	Peak	36.82	14.78	51.60	68.20	-16.60

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

Report Number :T190816W02

Test Date :2019-08-21

Operation Band :802.11ac80/Band 2

Temp./Humi. :26.1/53

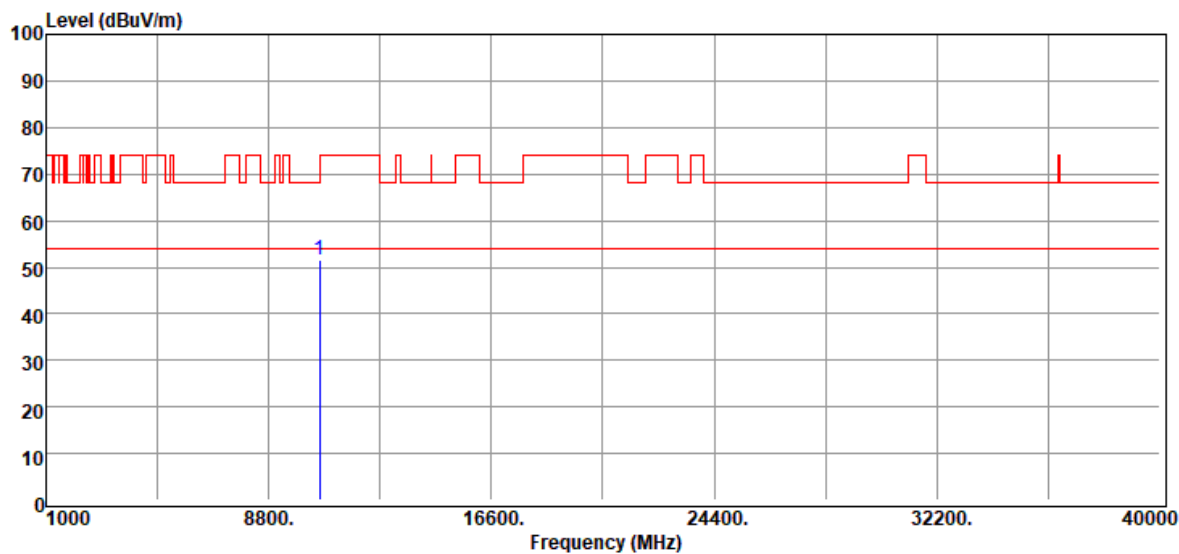
Frequency :5290 MHz

Antenna Pol. :VERTICAL

Operation Mode :TX CH HIGH

Engineer :Kailin

EUT Pol. :H Plan



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10580.00	Peak	37.11	14.56	51.67	68.20	-16.53

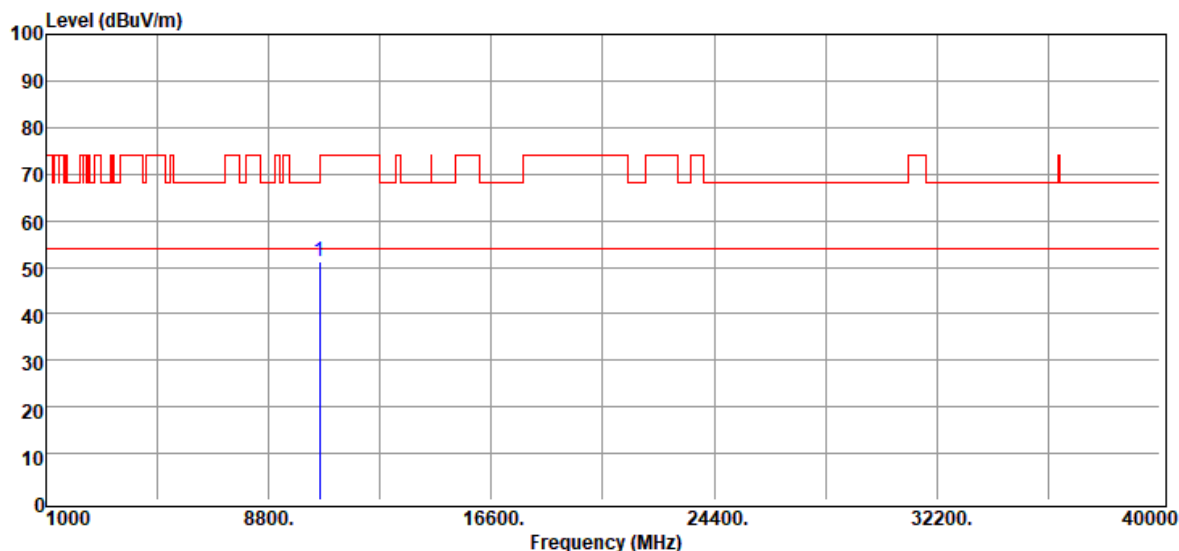
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Report Number :T190816W02
Operation Band :802.11ac80/Band 2
Frequency :5290 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	Peak	36.59	14.56	51.15	68.20	-17.05

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

Report Number :T190816W02

Test Date :2019-08-21

Operation Band :802.11ac80/Band 3

Temp./Humi. :26.1/53

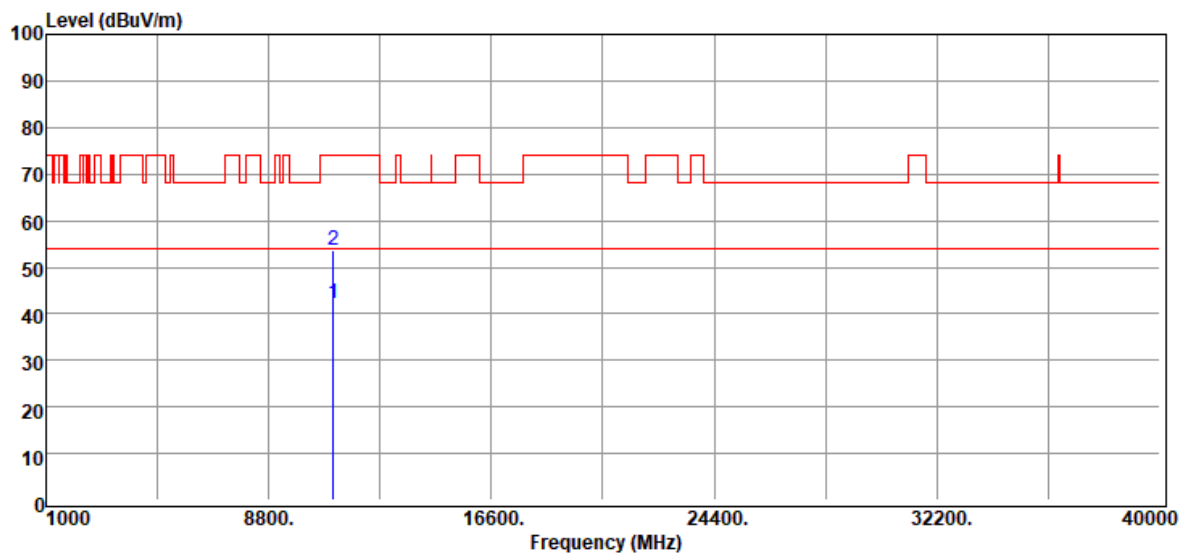
Frequency :5530 MHz

Antenna Pol. :VERTICAL

Operation Mode :TX CH LOW

Engineer :Kailin

EUT Pol. :H Plan



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
11060.00	Average	26.25	16.08	42.33	54.00	-11.67
11060.00	Peak	37.45	16.08	53.53	74.00	-20.47

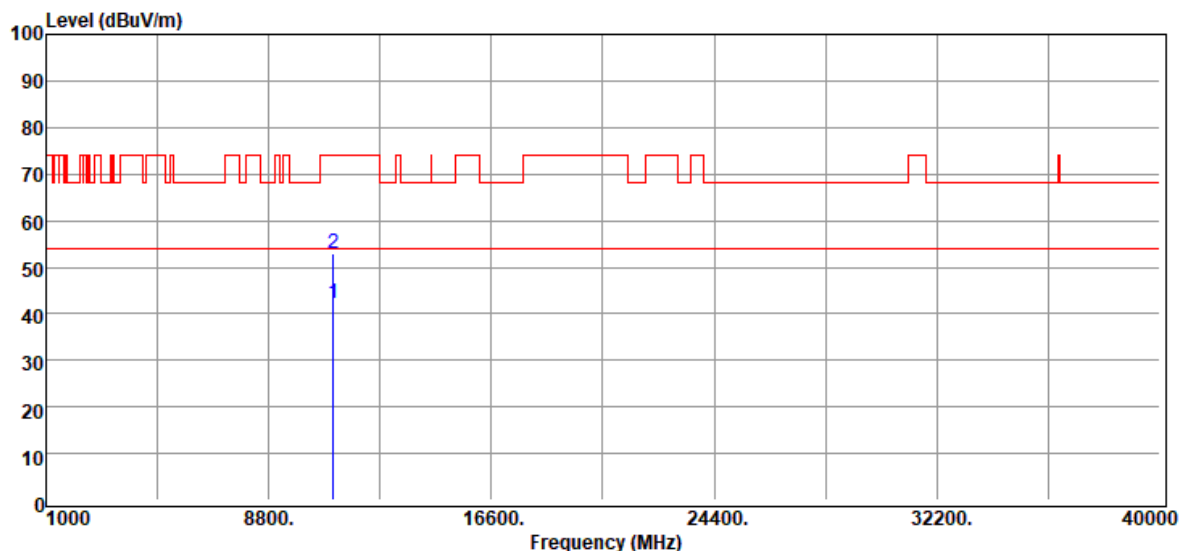
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Report Number :T190816W02
Operation Band :802.11ac80/Band 3
Frequency :5530 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	Average	26.22	16.08	42.30	54.00	-11.70
11060.00	Peak	36.82	16.08	52.90	74.00	-21.10

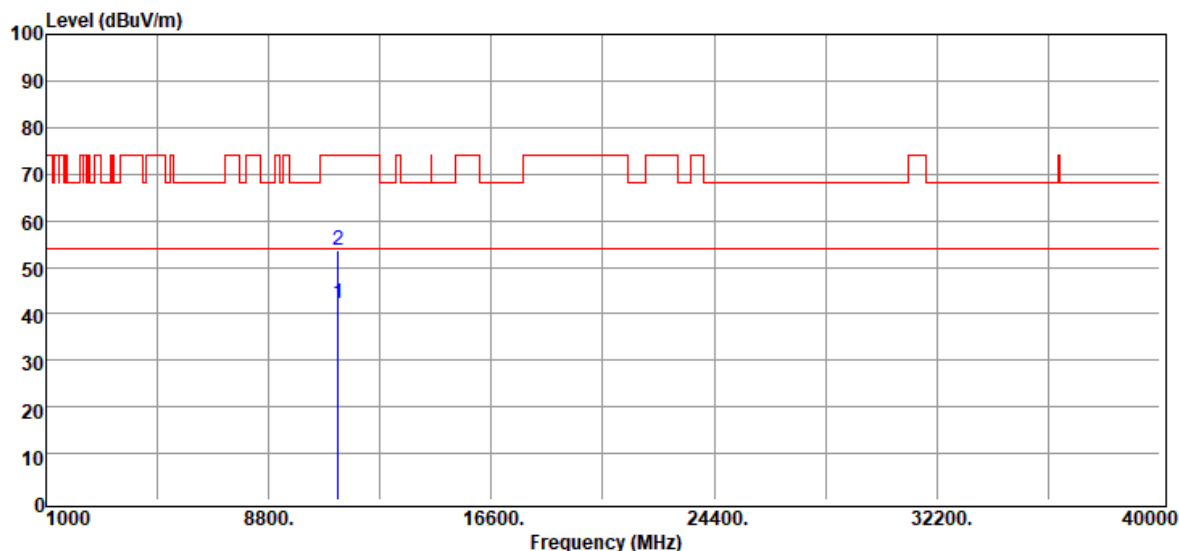
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Report Number :T190816W02
Operation Band :802.11ac80/Band 3
Frequency :5610 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Average	26.20	15.94	42.14	54.00	-11.86
11220.00	Peak	37.58	15.94	53.52	74.00	-20.48

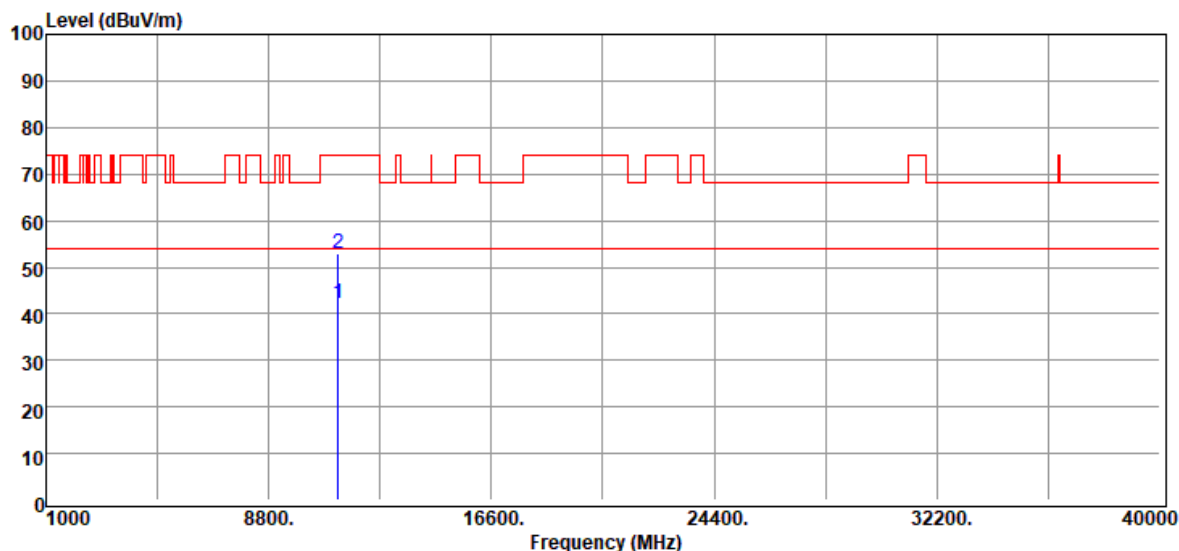
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Report Number :T190816W02
Operation Band :802.11ac80/Band 3
Frequency :5610 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Average	26.26	15.94	42.20	54.00	-11.80
11220.00	Peak	37.15	15.94	53.09	74.00	-20.91

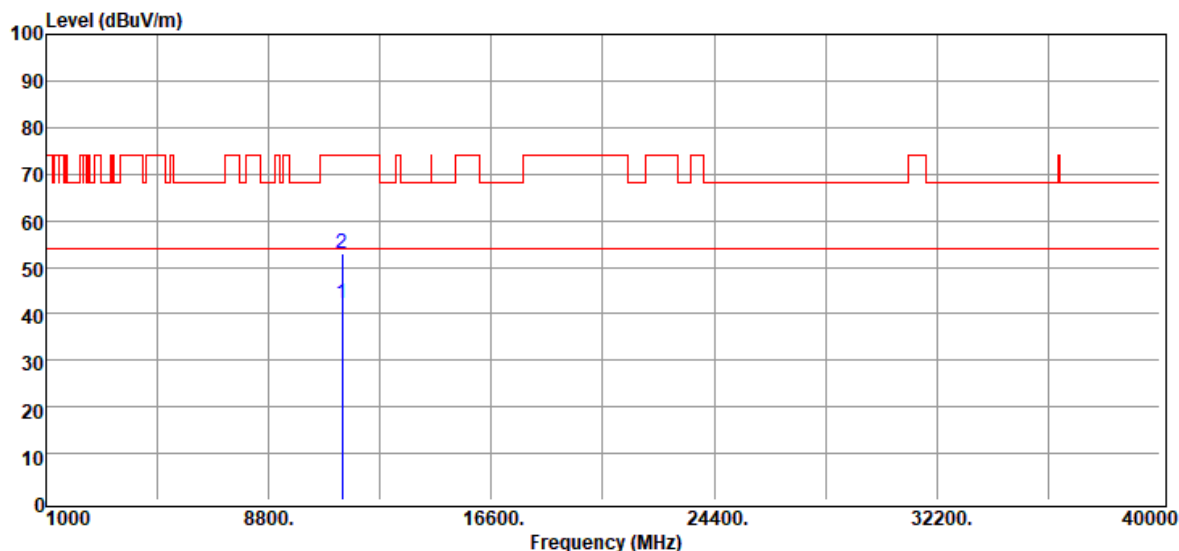
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Report Number :T190816W02
Operation Band :802.11ac80/Band 3
Frequency :5690 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	Average	26.13	15.92	42.05	54.00	-11.95
11380.00	Peak	37.13	15.92	53.05	74.00	-20.95

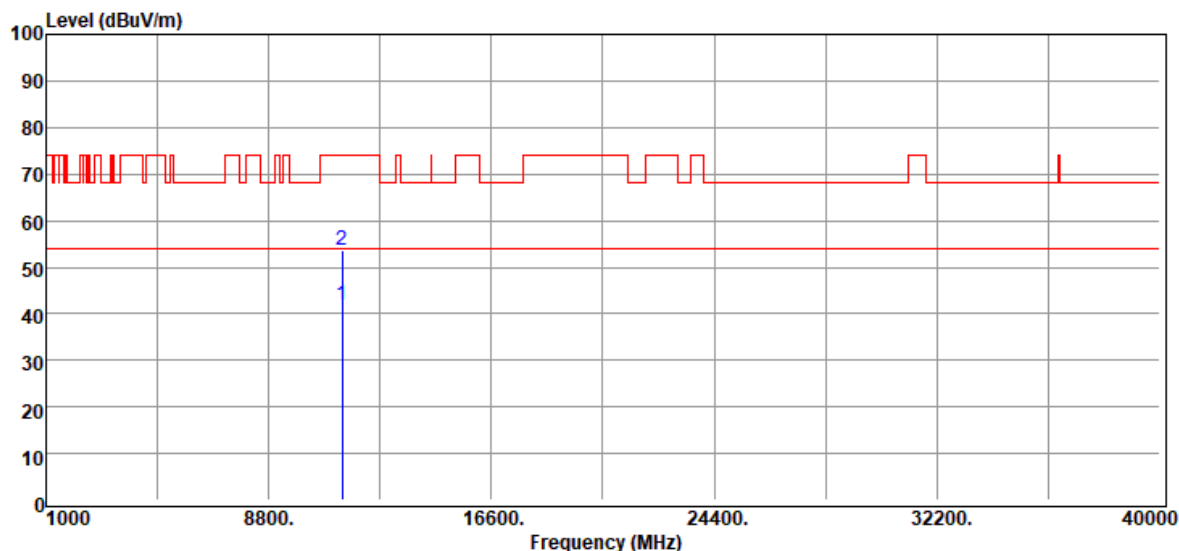
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Report Number :T190816W02
Operation Band :802.11ac80/Band 3
Frequency :5690 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	Average	26.08	15.92	42.00	54.00	-12.00
11380.00	Peak	37.58	15.92	53.50	74.00	-20.50

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

Report Number :T190816W02

Test Date :2019-08-21

Operation Band :802.11ac80/Band 4

Temp./Humi. :26.1/53

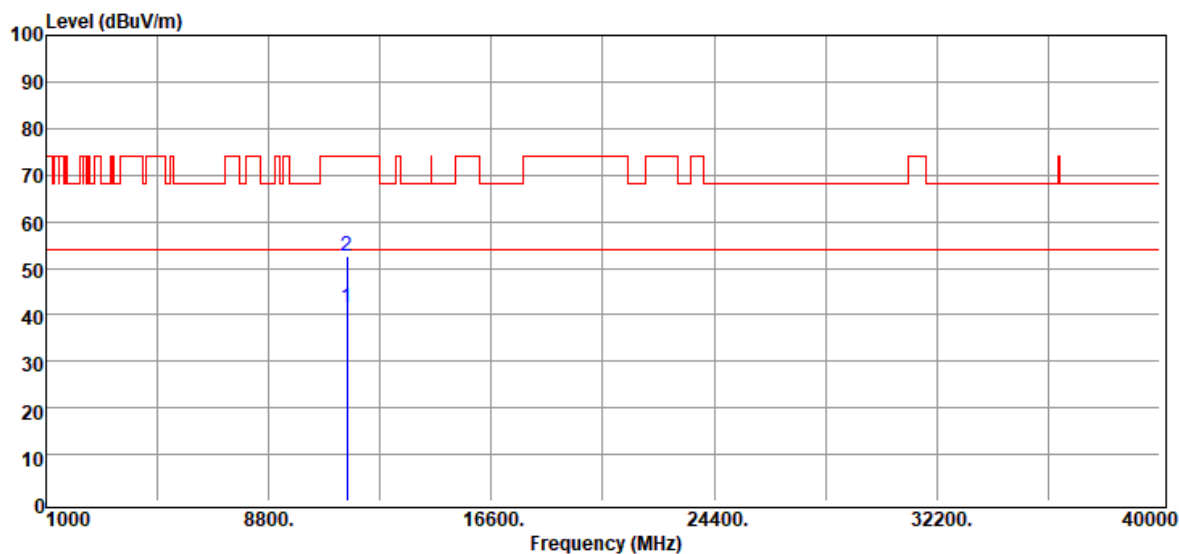
Frequency :5775 MHz

Antenna Pol. :VERTICAL

Operation Mode :TX CH LOW

Engineer :Kailin

EUT Pol. :H Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11550.00	Average	26.17	15.39	41.56	54.00	-12.44
11550.00	Peak	37.20	15.39	52.59	74.00	-21.41

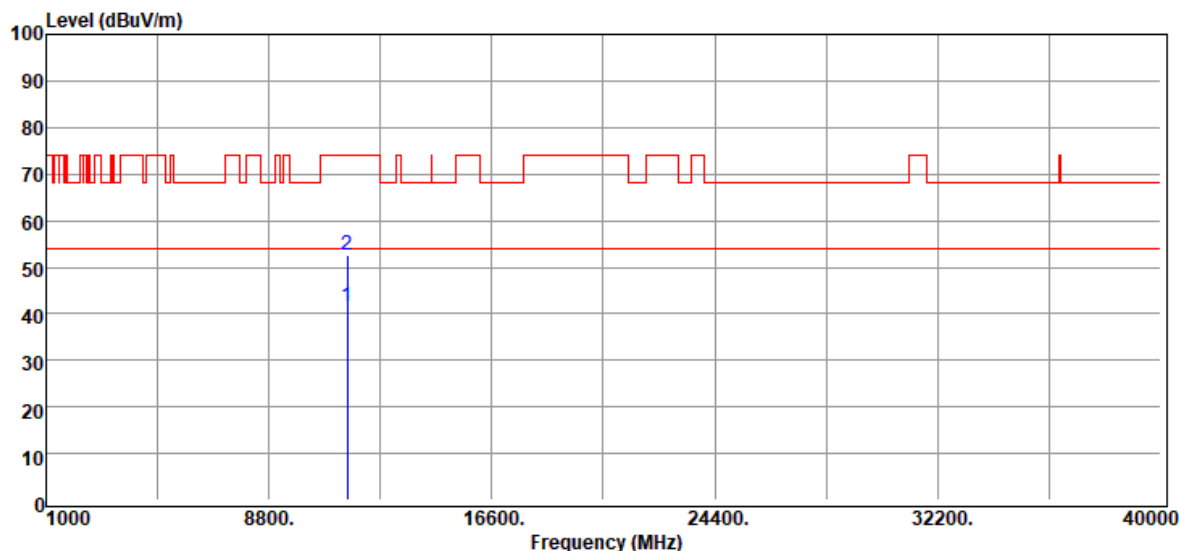
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Report Number :T190816W02
Operation Band :802.11ac80/Band 4
Frequency :5775 MHz
Operation Mode :TX CH LOW
EUT Pol. :H Plan

Test Date :2019-08-21
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	Average	26.10	15.39	41.49	54.00	-12.51
11550.00	Peak	37.17	15.39	52.56	74.00	-21.44

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

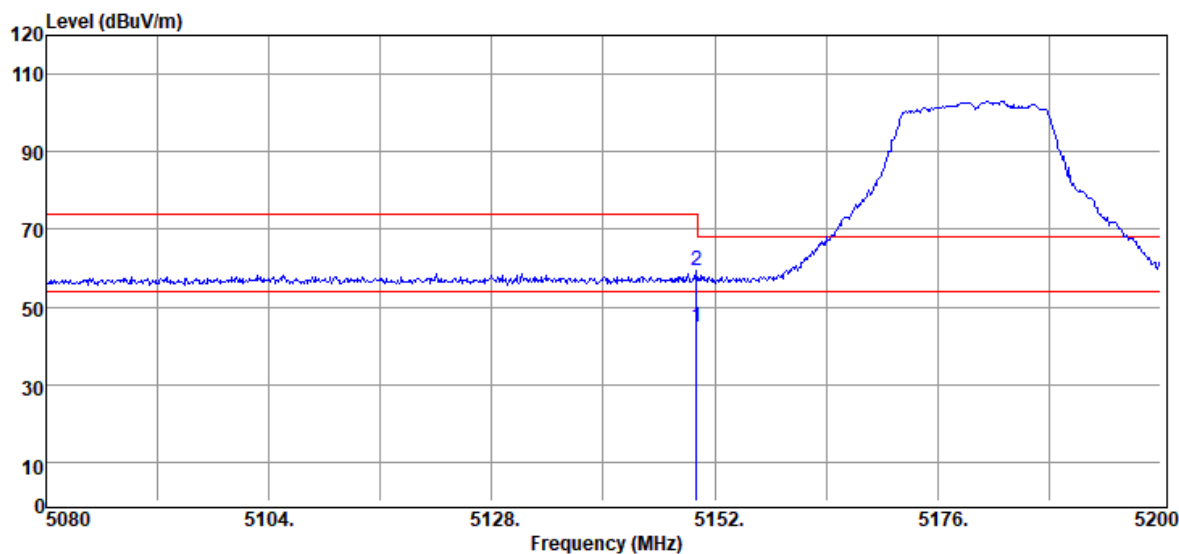
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Band edge falling to restricted band**802.11a mode**

Report Number :T190816W02
 Operation Band :802.11a/Band 1
 Frequency :5180 MHz
 Operation Mode :BE CH LOW
 EUT Pol. :H Plan

Test Date :2019-08-19
 Temp./Humi. :26.1/53
 Antenna Pol. :VERTICAL
 Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	40.04	4.92	44.96	54.00	-9.04
5150.00	Peak	54.65	4.92	59.57	74.00	-14.43

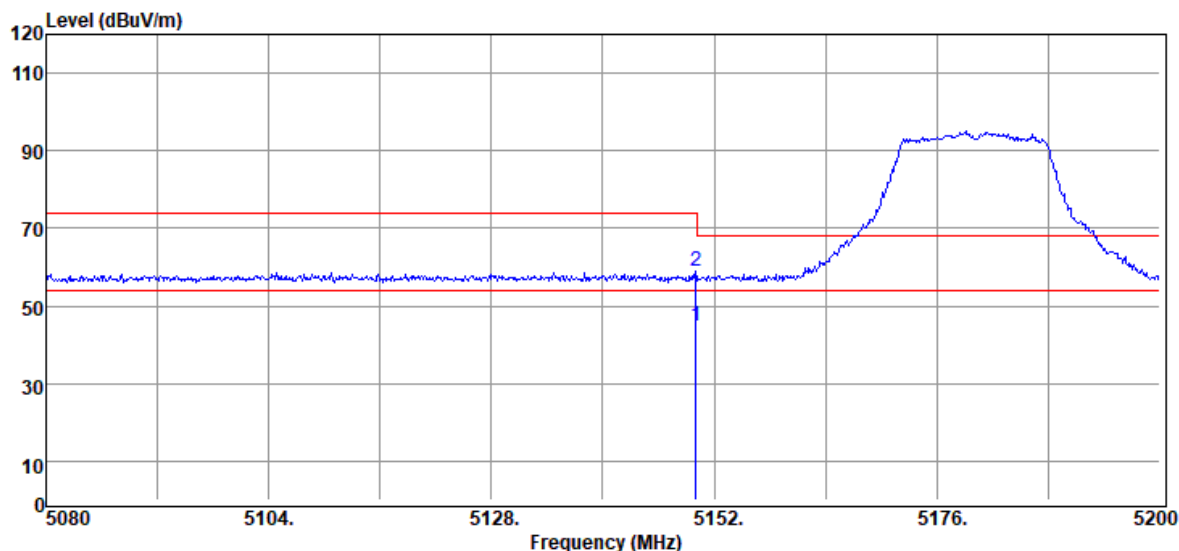
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Report Number :T190816W02
Operation Band :802.11a/Band 1
Frequency :5180 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	39.99	4.92	44.91	54.00	-9.09
5150.00	Peak	54.24	4.92	59.16	74.00	-14.84

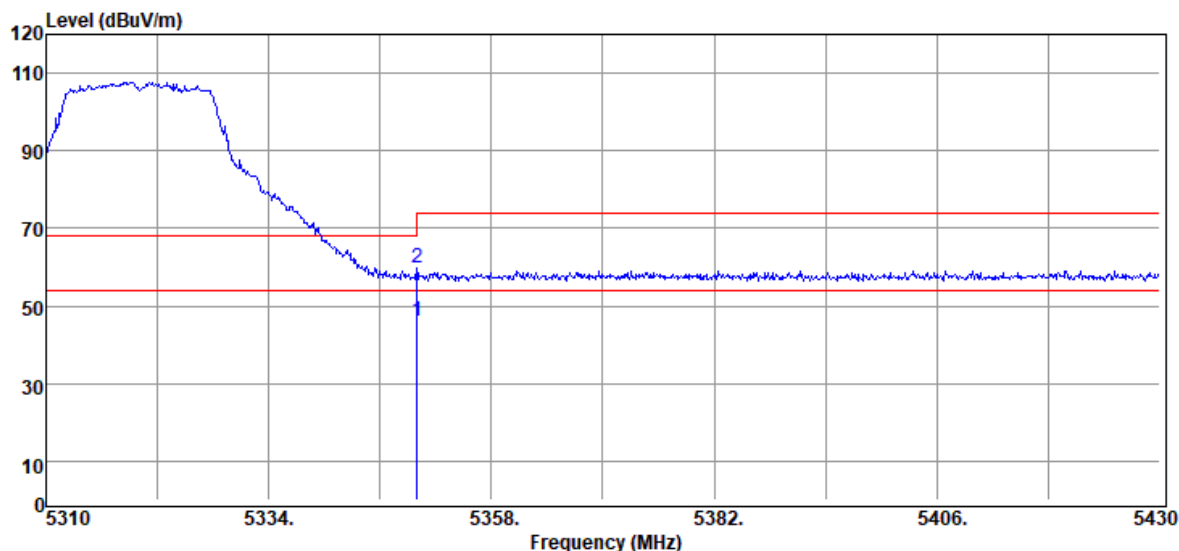
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Report Number :T190816W02
Operation Band :802.11a/Band 2
Frequency :5320 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	40.89	5.21	46.10	54.00	-7.90
5350.00	Peak	54.64	5.21	59.85	74.00	-14.15

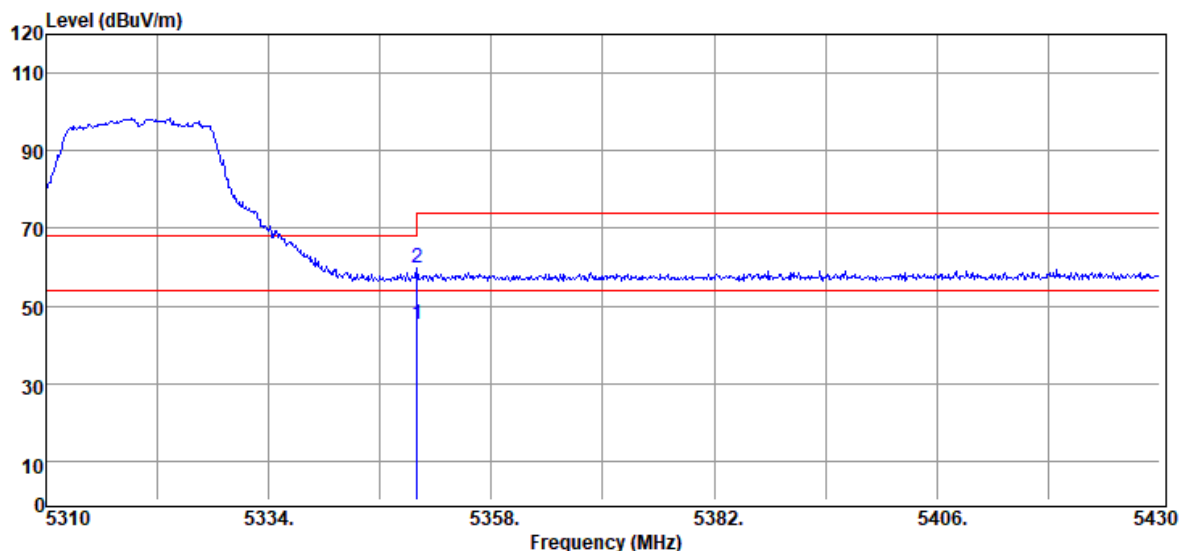
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Report Number :T190816W02
Operation Band :802.11a/Band 2
Frequency :5320 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	39.99	5.21	45.20	54.00	-8.80
5350.00	Peak	54.67	5.21	59.88	74.00	-14.12

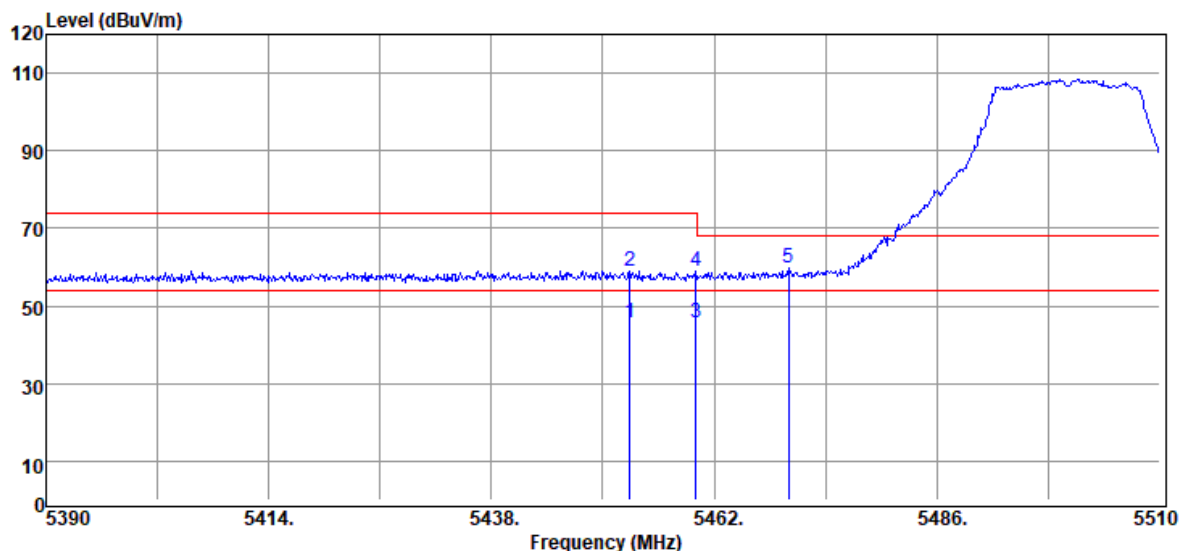
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Report Number :T190816W02
Operation Band :802.11a/Band 3
Frequency :5500 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5452.88	Average	40.07	5.60	45.67	54.00	-8.33
5452.88	Peak	53.55	5.60	59.15	74.00	-14.85
5460.00	Average	40.11	5.63	45.74	54.00	-8.26
5460.00	Peak	53.48	5.63	59.11	74.00	-14.89
5470.00	Peak	54.31	5.65	59.96	68.20	-8.24

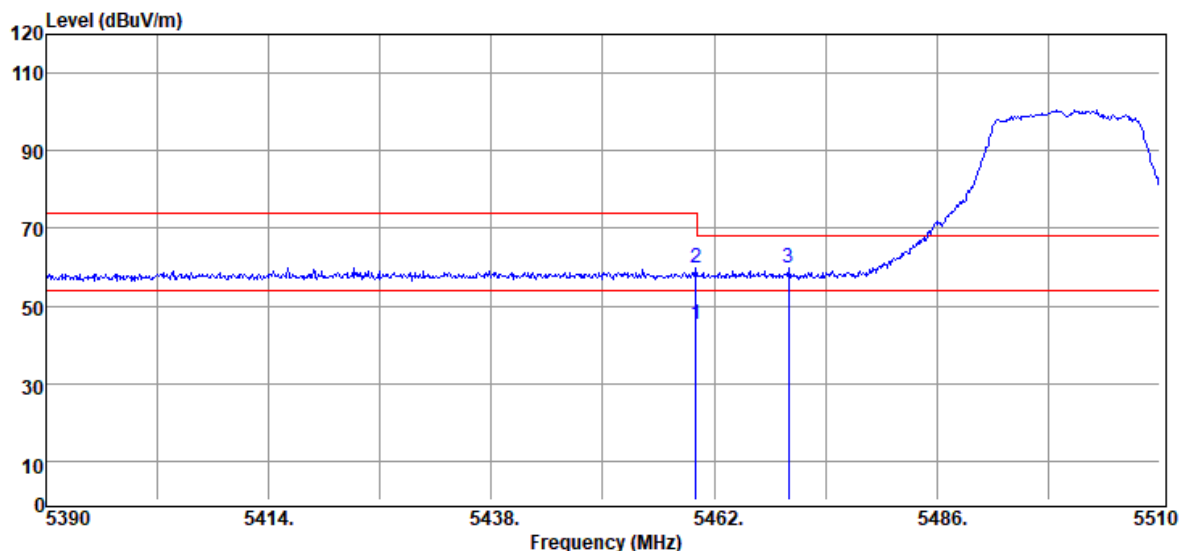
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Report Number :T190816W02
Operation Band :802.11a/Band 3
Frequency :5500 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	39.79	5.63	45.42	54.00	-8.58
5460.00	Peak	54.32	5.63	59.95	74.00	-14.05
5470.00	Peak	53.97	5.65	59.62	68.20	-8.58

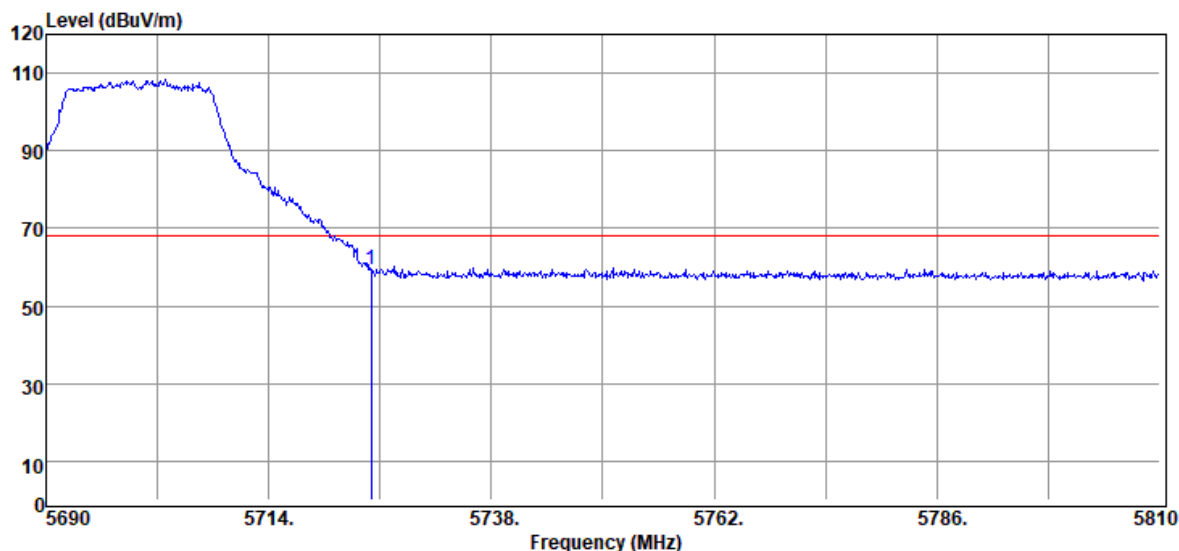
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Report Number :T190816W02
Operation Band :802.11a/Band 3
Frequency :5700 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	Peak	53.20	6.34	59.54	68.20	-8.66

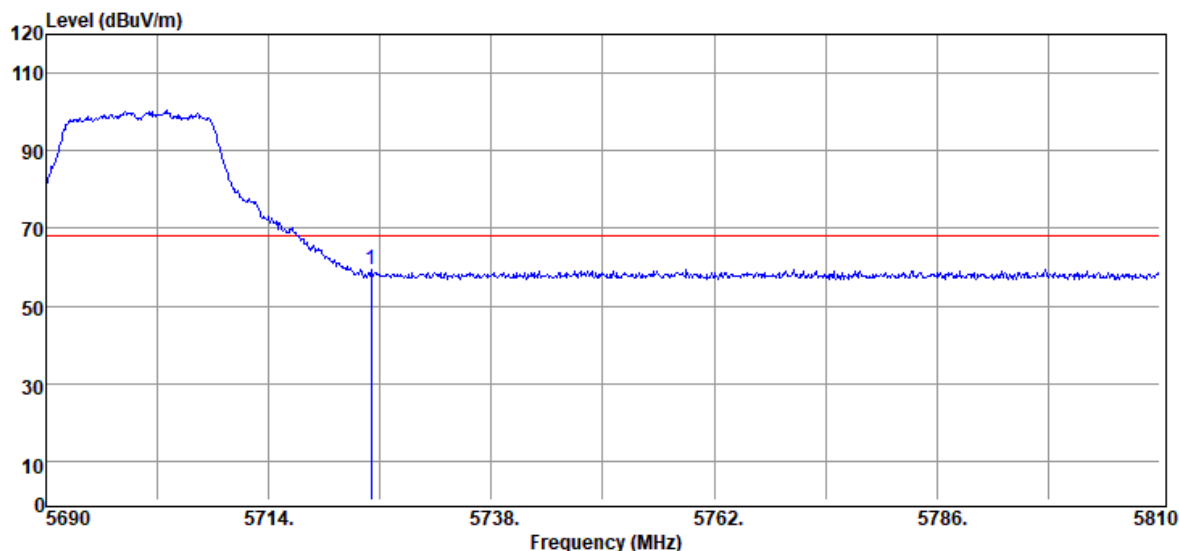
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Report Number :T190816W02
Operation Band :802.11a/Band 3
Frequency :5700 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	52.85	6.34	59.19	68.20	-9.01

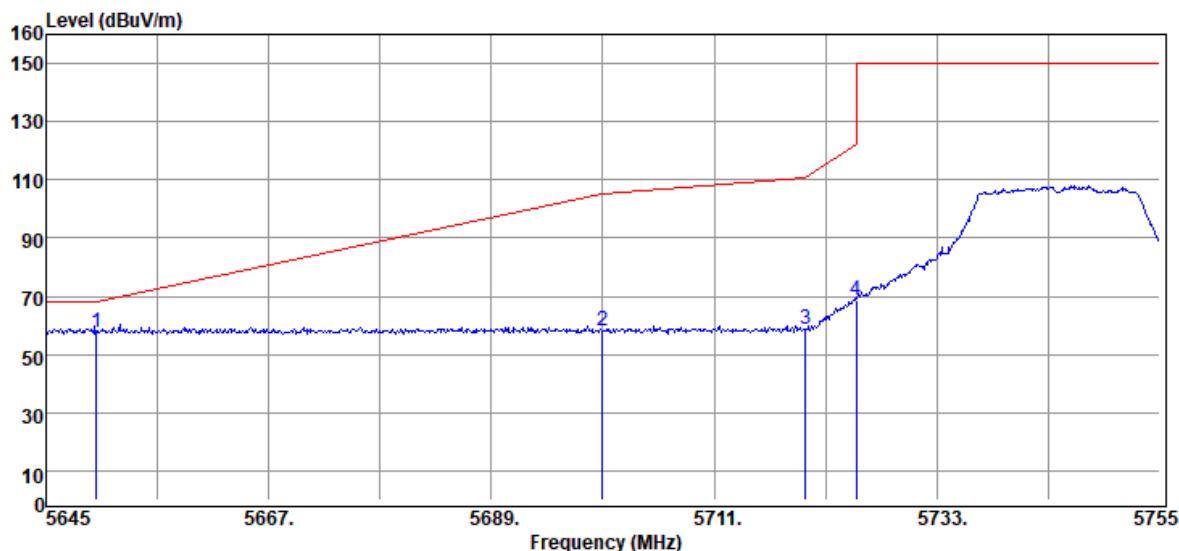
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Report Number :T190816W02
Operation Band :802.11a/Band 4
Frequency :5745 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/52
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	51.74	6.04	57.78	68.20	-10.42
5700.00	Peak	51.95	6.32	58.27	105.20	-46.93
5720.00	Peak	52.61	6.33	58.94	110.80	-51.86
5725.00	Peak	62.30	6.34	68.64	122.20	-53.56

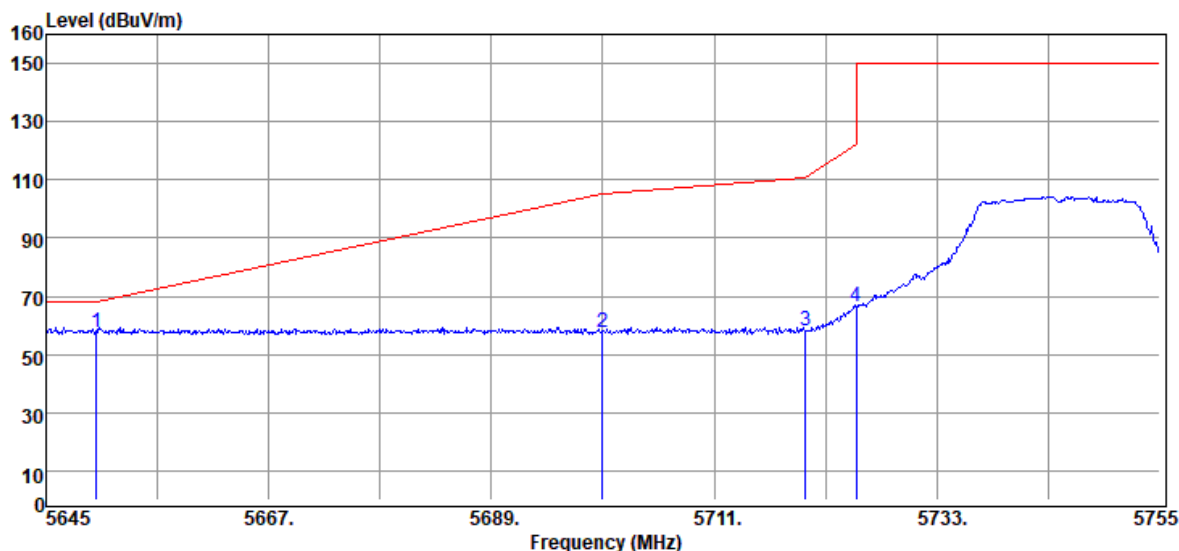
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Report Number :T190816W02
Operation Band :802.11a/Band 4
Frequency :5745 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	51.52	6.04	57.56	68.20	-10.64
5700.00	Peak	51.42	6.32	57.74	105.20	-47.46
5720.00	Peak	51.58	6.33	57.91	110.80	-52.89
5725.00	Peak	60.21	6.34	66.55	122.20	-55.65

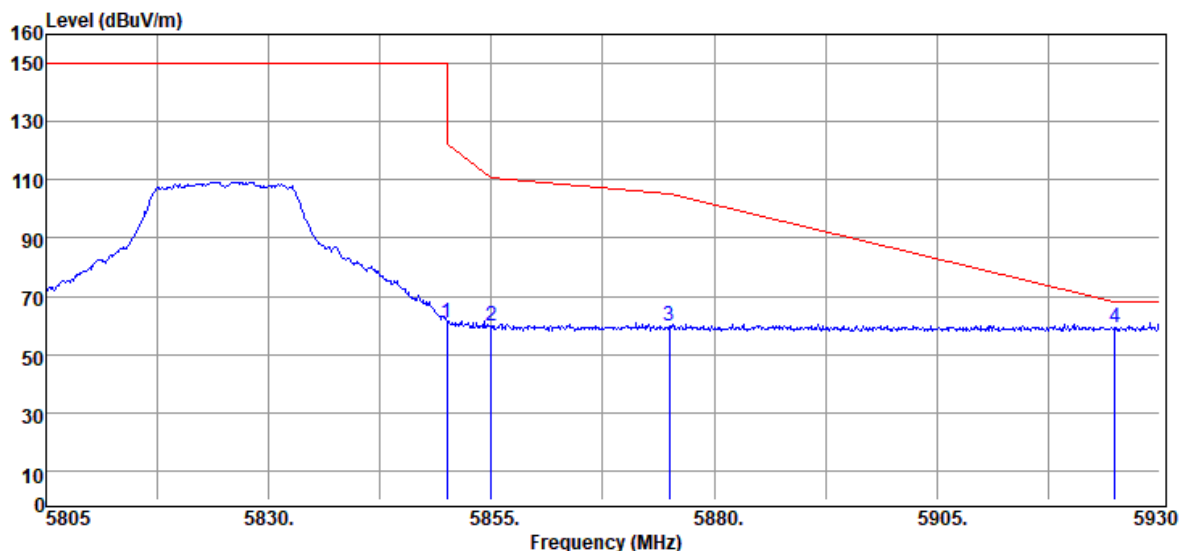
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Report Number :T190816W02
Operation Band :802.11a/Band 4
Frequency :5825 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/52
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	54.51	6.39	60.90	122.20	-61.30
5855.00	Peak	53.58	6.38	59.96	110.80	-50.84
5875.00	Peak	53.24	6.37	59.61	105.20	-45.59
5925.00	Peak	52.59	6.42	59.01	68.20	-9.19

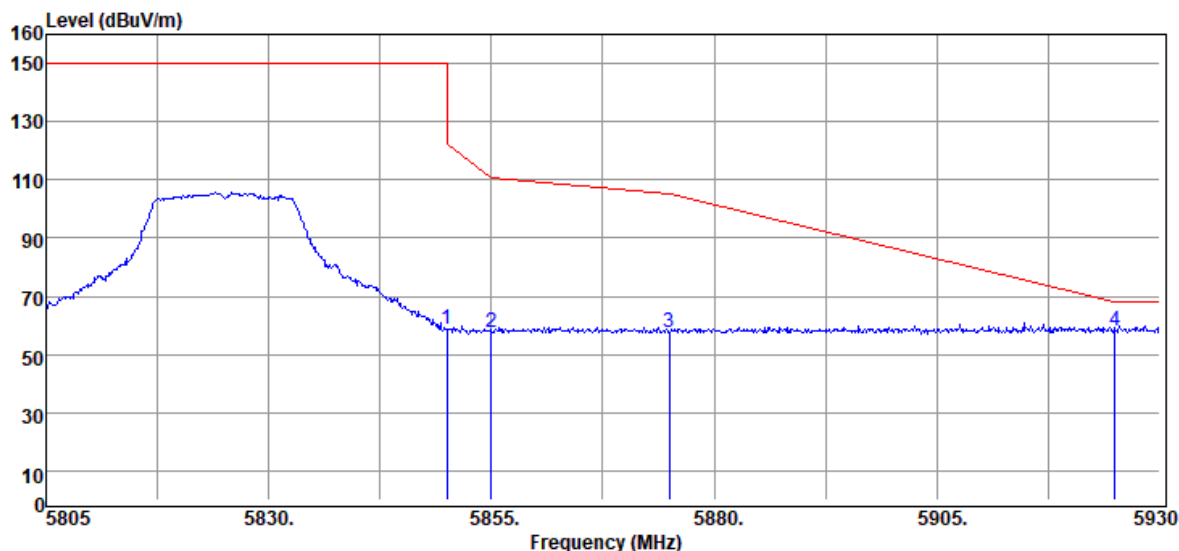
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Report Number :T190816W02
Operation Band :802.11a/Band 4
Frequency :5825 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	52.41	6.39	58.80	122.20	-63.40
5855.00	Peak	51.18	6.38	57.56	110.80	-53.24
5875.00	Peak	51.23	6.37	57.60	105.20	-47.60
5925.00	Peak	51.86	6.42	58.28	68.20	-9.92

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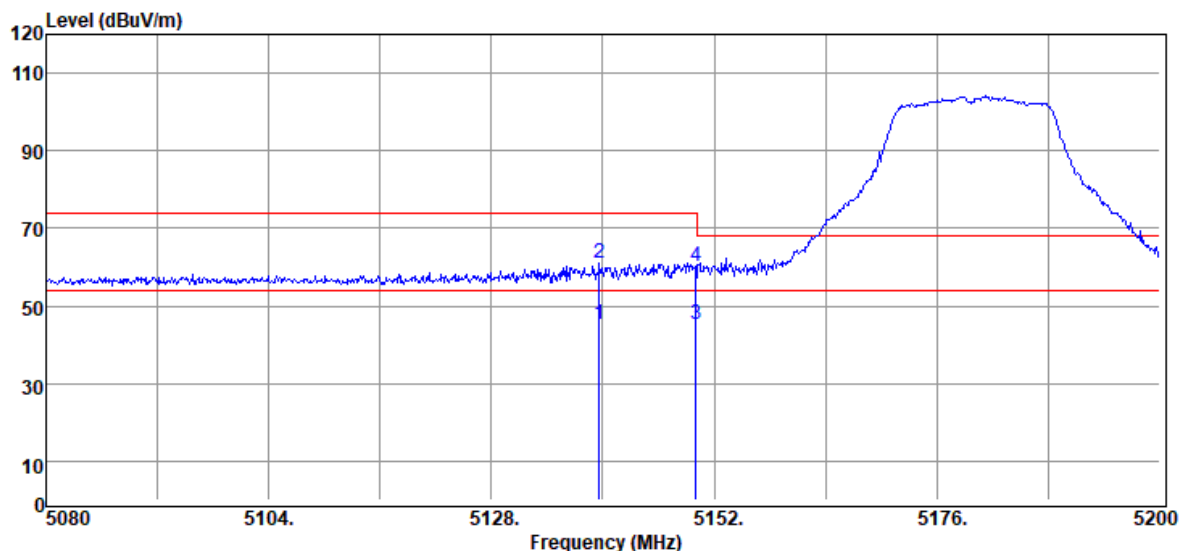
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802.11n20 HT mode

Report Number :T190816W02
Operation Band :802.11n20/Band 1
Frequency :5180 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.2/52
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5139.64	Average	40.17	4.91	45.08	54.00	-8.92
5139.64	Peak	56.31	4.91	61.22	74.00	-12.78
5150.00	Average	40.27	4.92	45.19	54.00	-8.81
5150.00	Peak	55.11	4.92	60.03	74.00	-13.97

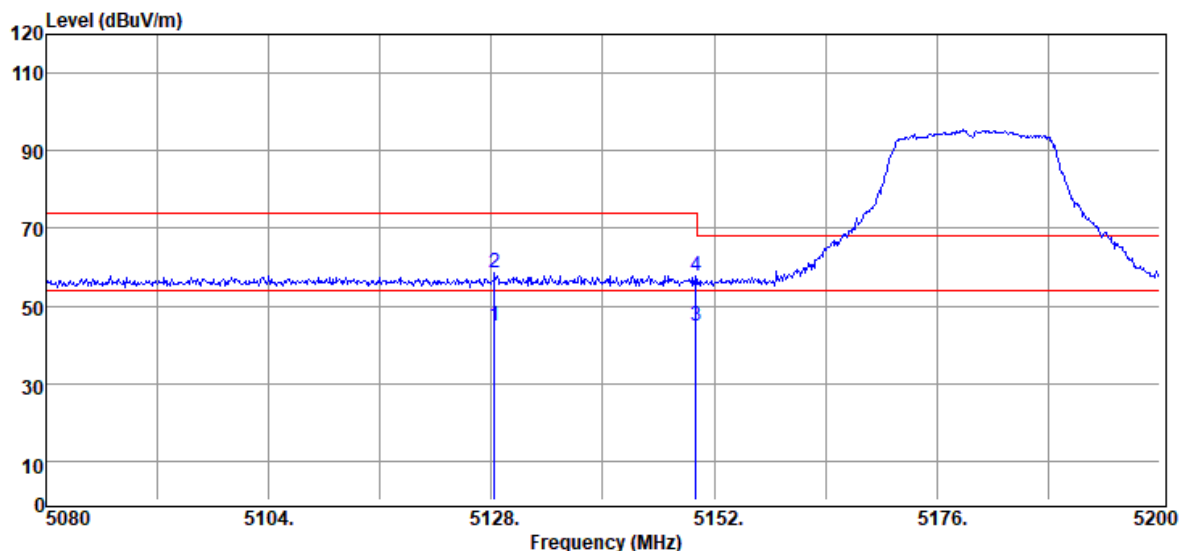
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Report Number :T190816W02
Operation Band :802.11n20/Band 1
Frequency :5180 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.2/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5128.36	Average	39.89	4.91	44.80	54.00	-9.20
5128.36	Peak	53.80	4.91	58.71	74.00	-15.29
5150.00	Average	40.12	4.92	45.04	54.00	-8.96
5150.00	Peak	52.69	4.92	57.61	74.00	-16.39

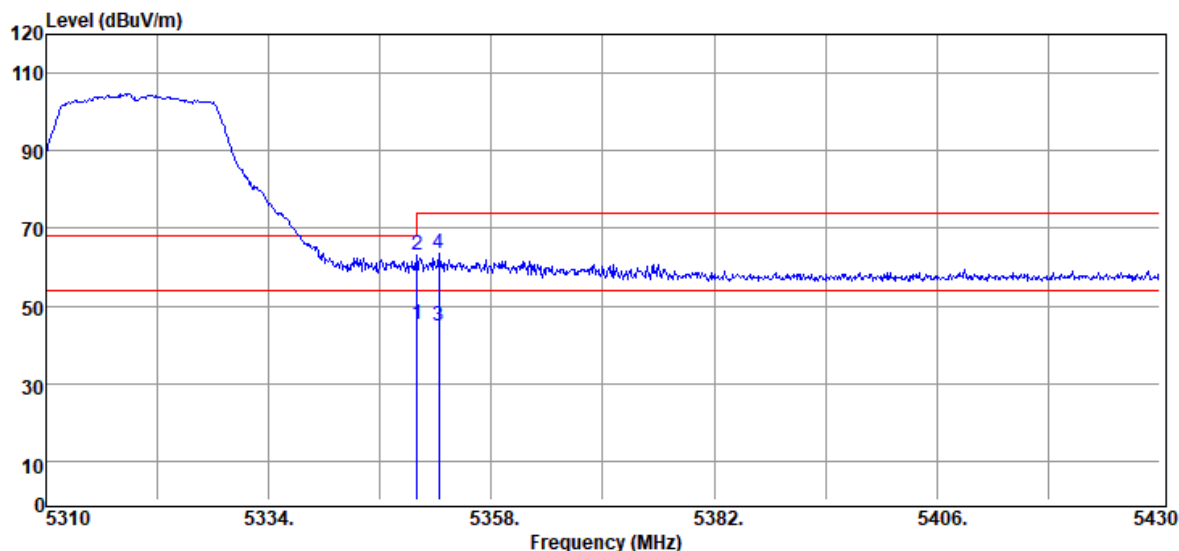
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Report Number :T190816W02
Operation Band :802.11n20/Band 2
Frequency :5320 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.3/52
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	40.17	5.21	45.38	54.00	-8.62
5350.00	Peak	58.10	5.21	63.31	74.00	-10.69
5352.36	Average	39.47	5.22	44.69	54.00	-9.31
5352.36	Peak	58.13	5.22	63.35	74.00	-10.65

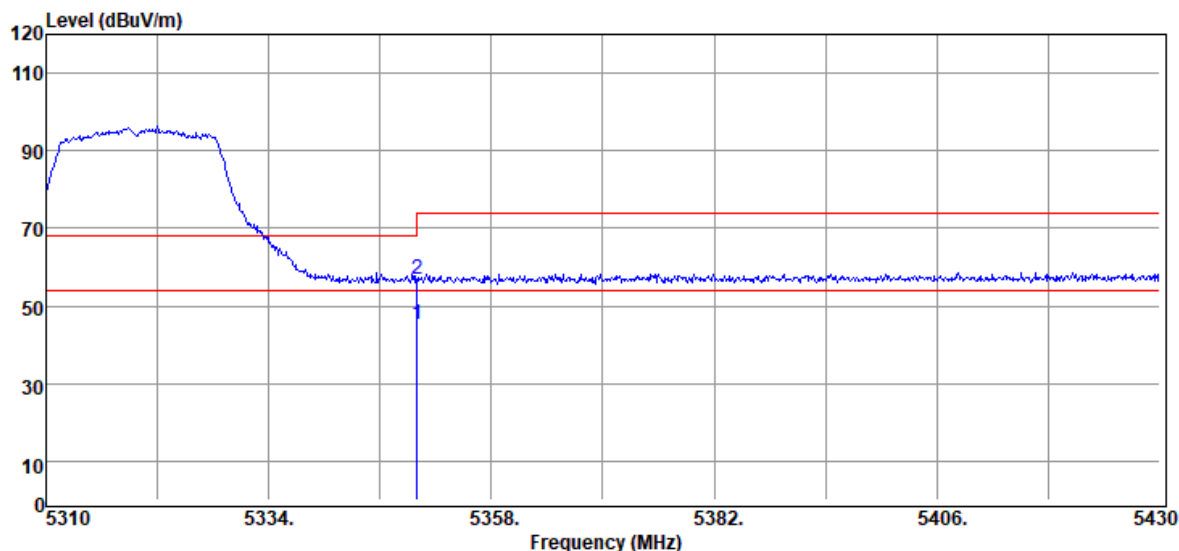
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Report Number :T190816W02
Operation Band :802.11n20/Band 2
Frequency :5320 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.3/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	39.89	5.21	45.10	54.00	-8.90
5350.00	Peak	51.58	5.21	56.79	74.00	-17.21

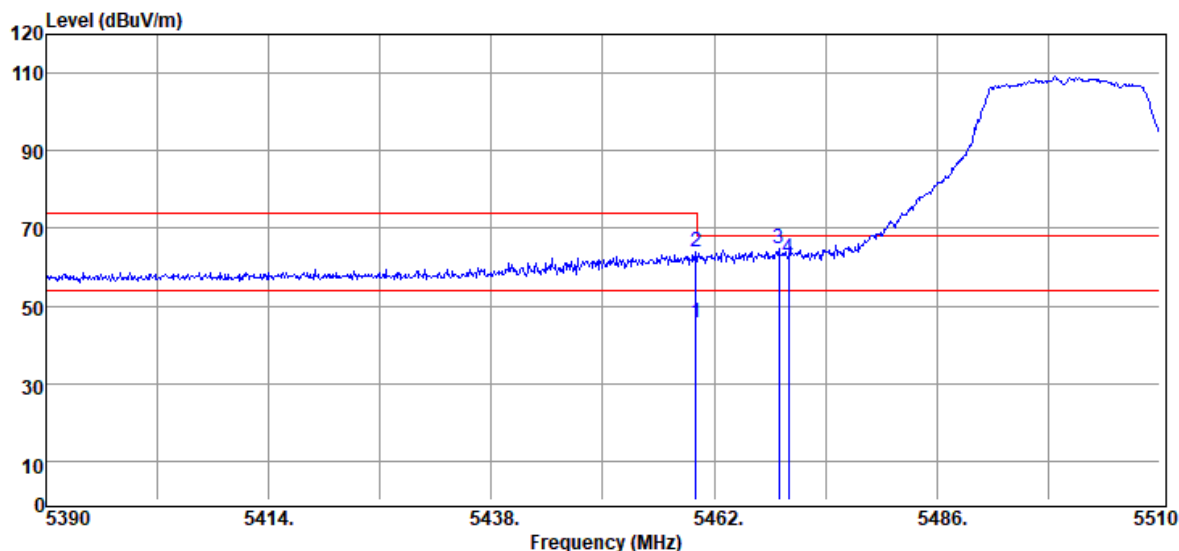
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Report Number :T190816W02
Operation Band :802.11n20/Band 3
Frequency :5500 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.3/52
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	40.22	5.63	45.85	54.00	-8.15
5460.00	Peak	58.48	5.63	64.11	74.00	-9.89
5468.96	Peak	59.11	5.65	64.76	68.20	-3.44
5470.00	Peak	56.79	5.65	62.44	68.20	-5.76

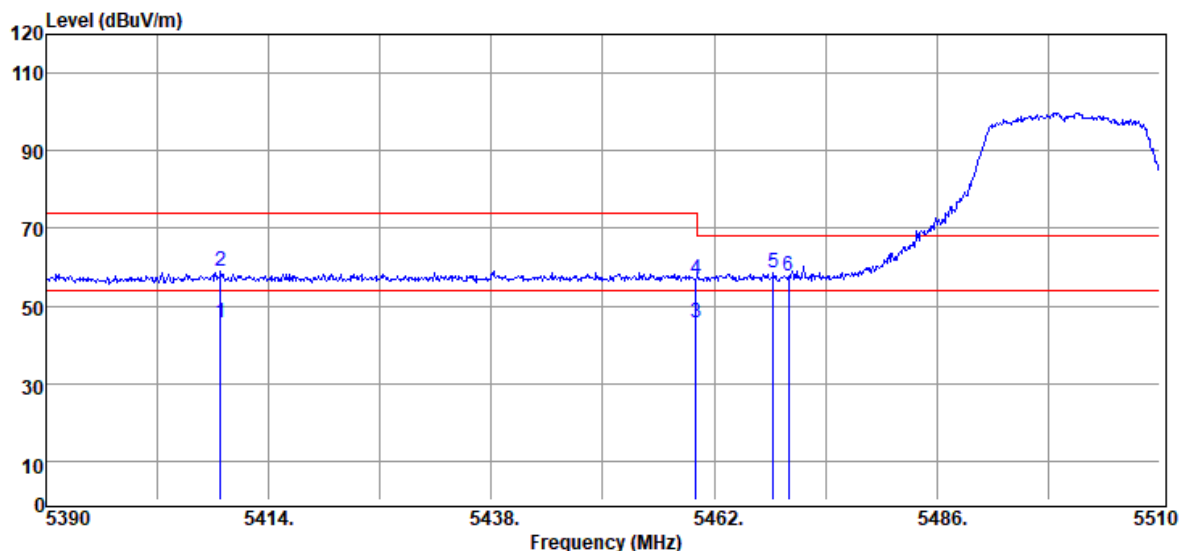
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Report Number :T190816W02
Operation Band :802.11n20/Band 3
Frequency :5500 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.3/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5408.84	Average	40.12	5.44	45.56	54.00	-8.44
5408.84	Peak	53.38	5.44	58.82	74.00	-15.18
5460.00	Average	40.11	5.63	45.74	54.00	-8.26
5460.00	Peak	51.45	5.63	57.08	74.00	-16.92
5468.36	Peak	52.90	5.64	58.54	68.20	-9.66
5470.00	Peak	51.87	5.65	57.52	68.20	-10.68

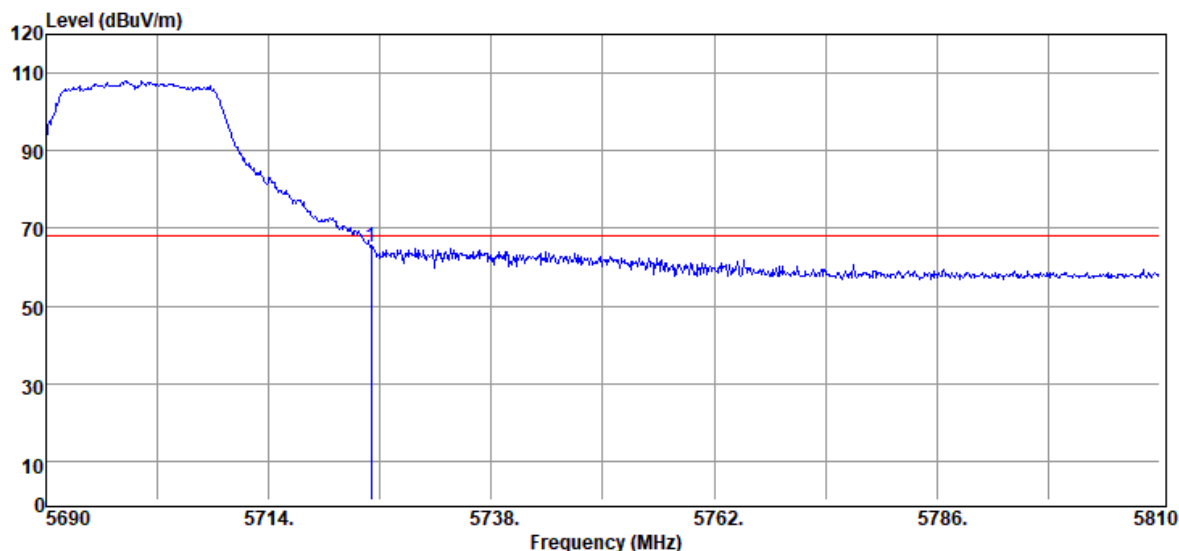
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Report Number :T190816W02
Operation Band :802.11n20/Band 3
Frequency :5700 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	58.72	6.34	65.06	68.20	-3.14

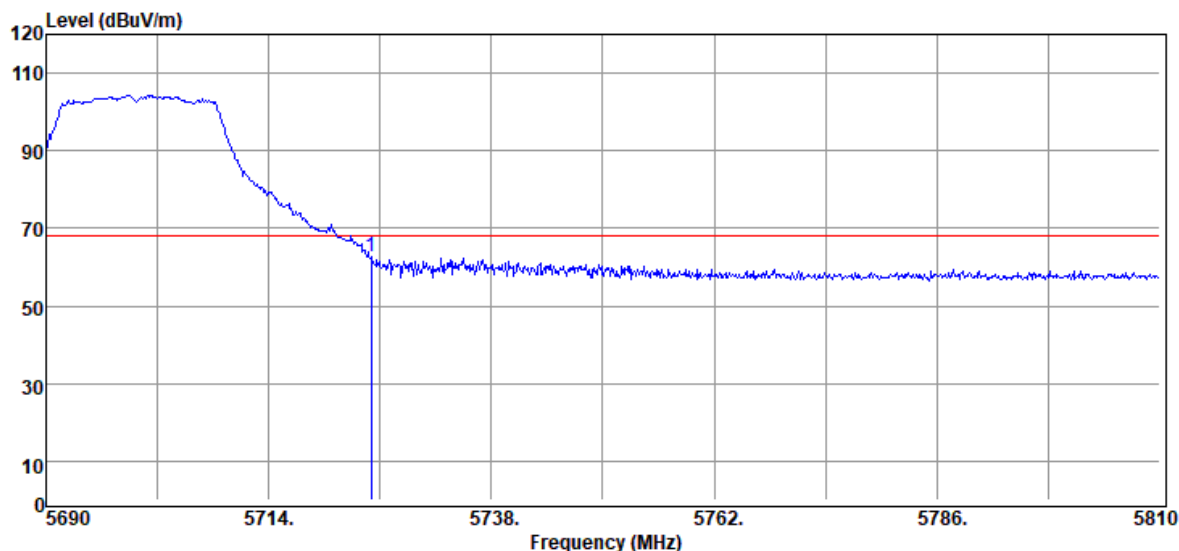
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Report Number :T190816W02
Operation Band :802.11n20/Band 3
Frequency :5700 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	56.49	6.34	62.83	68.20	-5.37

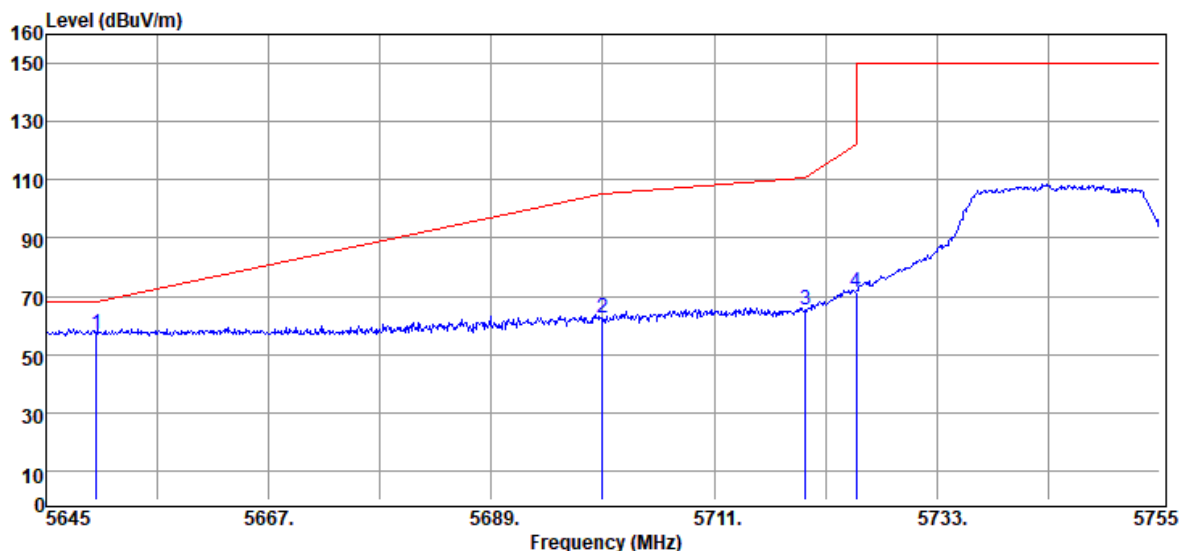
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Report Number :T190816W02
Operation Band :802.11n20/Band 4
Frequency :5745 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/52
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	51.05	6.04	57.09	68.20	-11.11
5700.00	Peak	56.37	6.32	62.69	105.20	-42.51
5720.00	Peak	59.22	6.33	65.55	110.80	-45.25
5725.00	Peak	64.89	6.34	71.23	122.20	-50.97

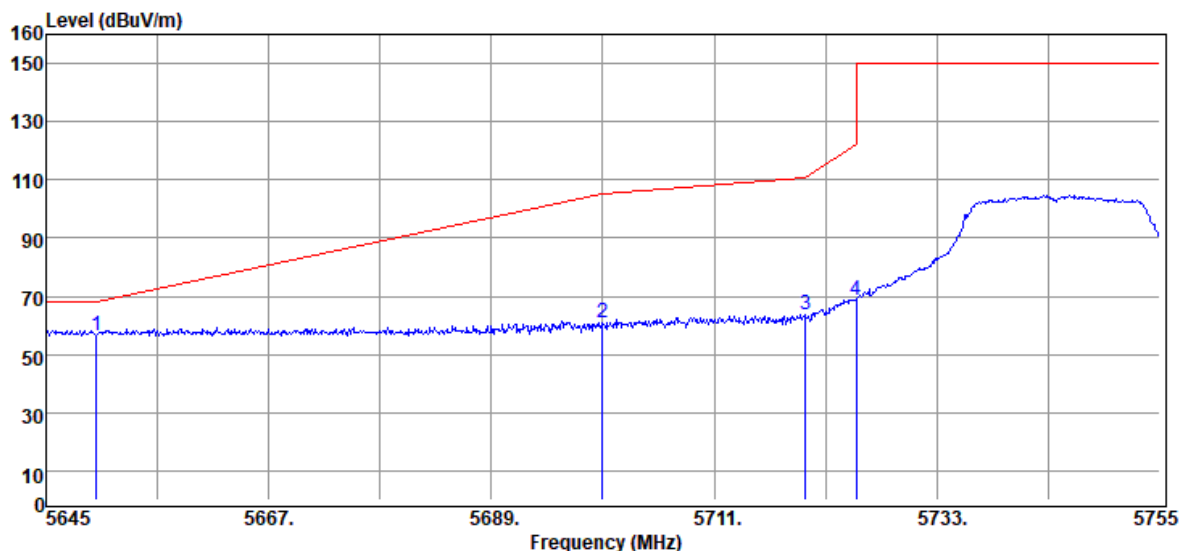
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Report Number :T190816W02
Operation Band :802.11n20/Band 4
Frequency :5745 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	50.60	6.04	56.64	68.20	-11.56
5700.00	Peak	54.79	6.32	61.11	105.20	-44.09
5720.00	Peak	57.12	6.33	63.45	110.80	-47.35
5725.00	Peak	62.30	6.34	68.64	122.20	-53.56

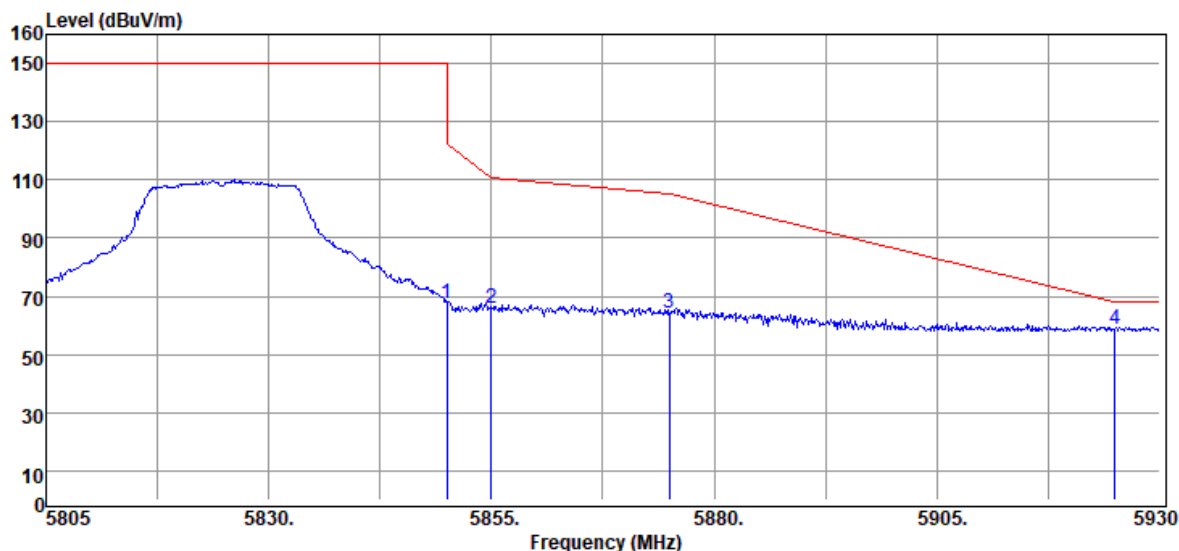
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Report Number :T190816W02
Operation Band :802.11n20/Band 4
Frequency :5825 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/52
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	61.37	6.39	67.76	122.20	-54.44
5855.00	Peak	59.70	6.38	66.08	110.80	-44.72
5875.00	Peak	57.97	6.37	64.34	105.20	-40.86
5925.00	Peak	52.21	6.42	58.63	68.20	-9.57

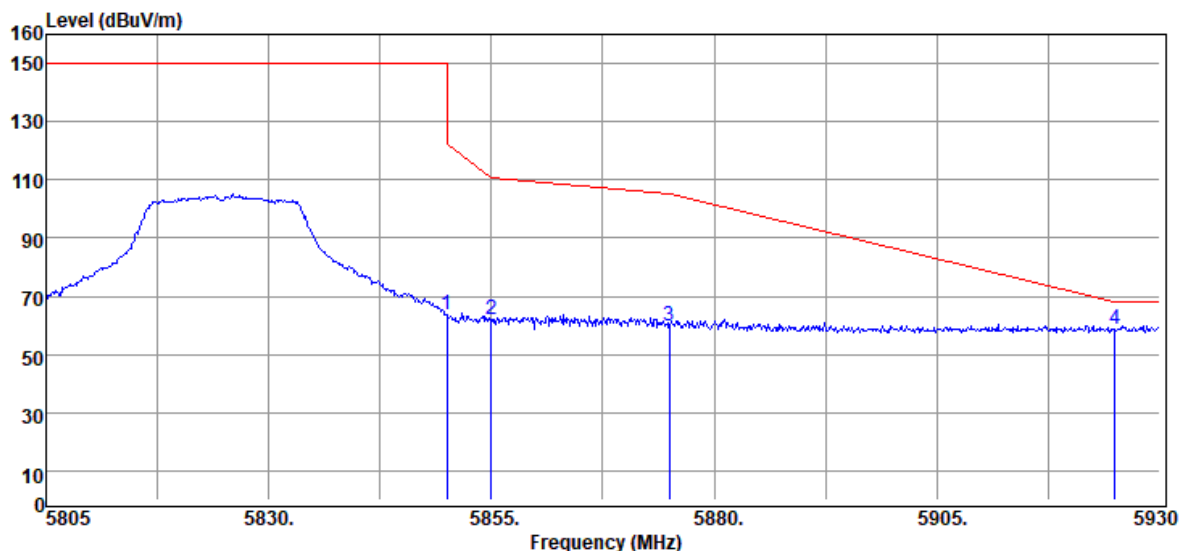
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Report Number :T190816W02
Operation Band :802.11n20/Band 4
Frequency :5825 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	57.12	6.39	63.51	122.20	-58.69
5855.00	Peak	55.85	6.38	62.23	110.80	-48.57
5875.00	Peak	53.59	6.37	59.96	105.20	-45.24
5925.00	Peak	52.02	6.42	58.44	68.20	-9.76

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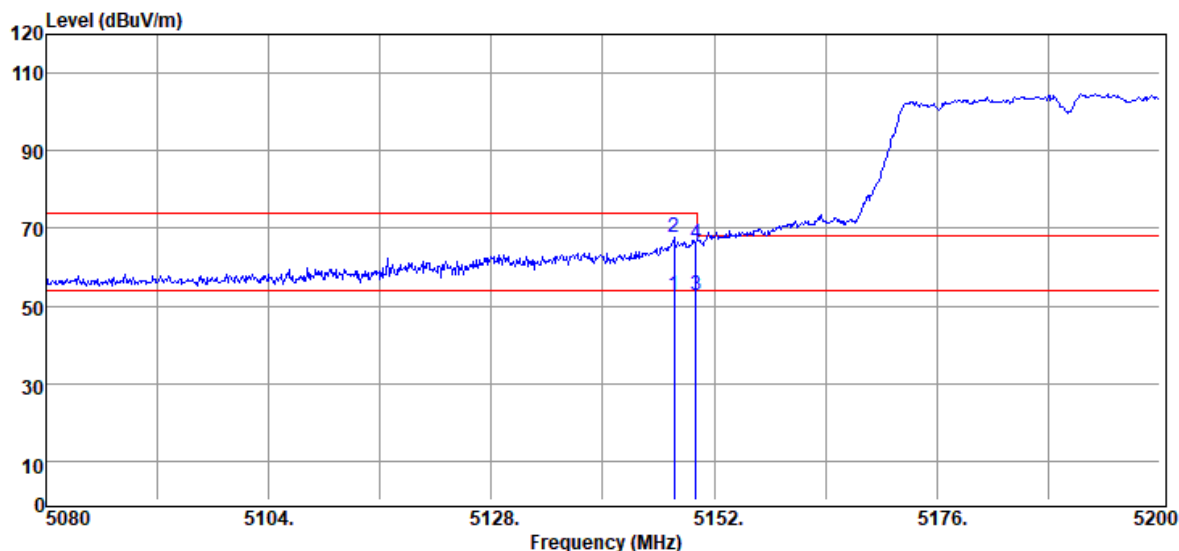
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802.11n40 HT mode

Report Number :T190816W02
Operation Band :802.11n40/Band 1
Frequency :5190 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.68	Average	47.69	4.92	52.61	54.00	-1.39
5147.68	Peak	62.58	4.92	67.50	74.00	-6.50
5150.00	Average	47.65	4.92	52.57	54.00	-1.43
5150.00	Peak	61.27	4.92	66.19	74.00	-7.81

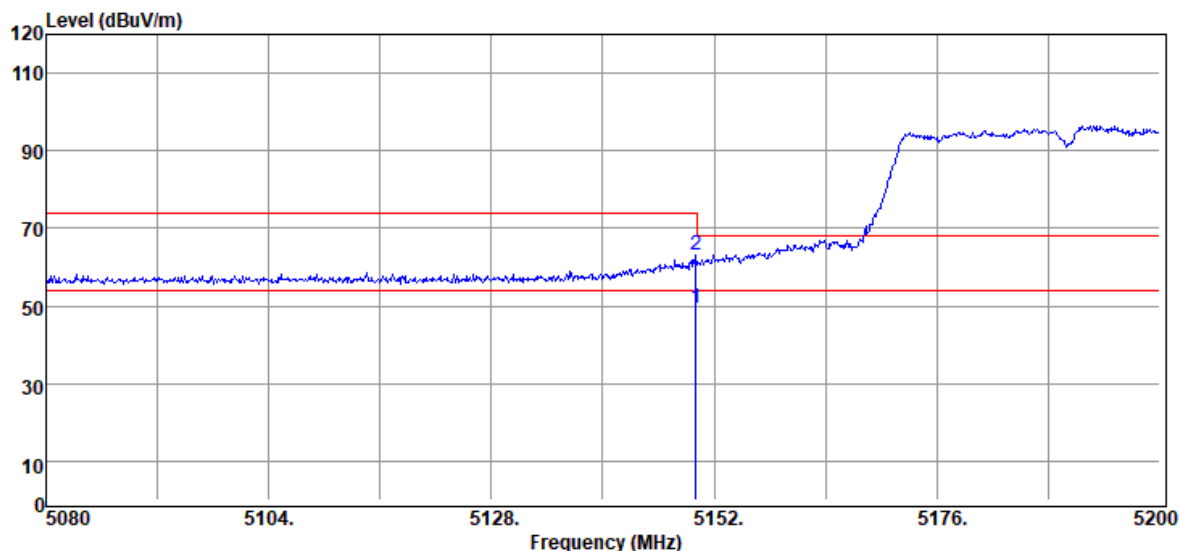
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Report Number :T190816W02
Operation Band :802.11n40/Band 1
Frequency :5190 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	44.66	4.92	49.58	54.00	-4.42
5150.00	Peak	58.01	4.92	62.93	74.00	-11.07

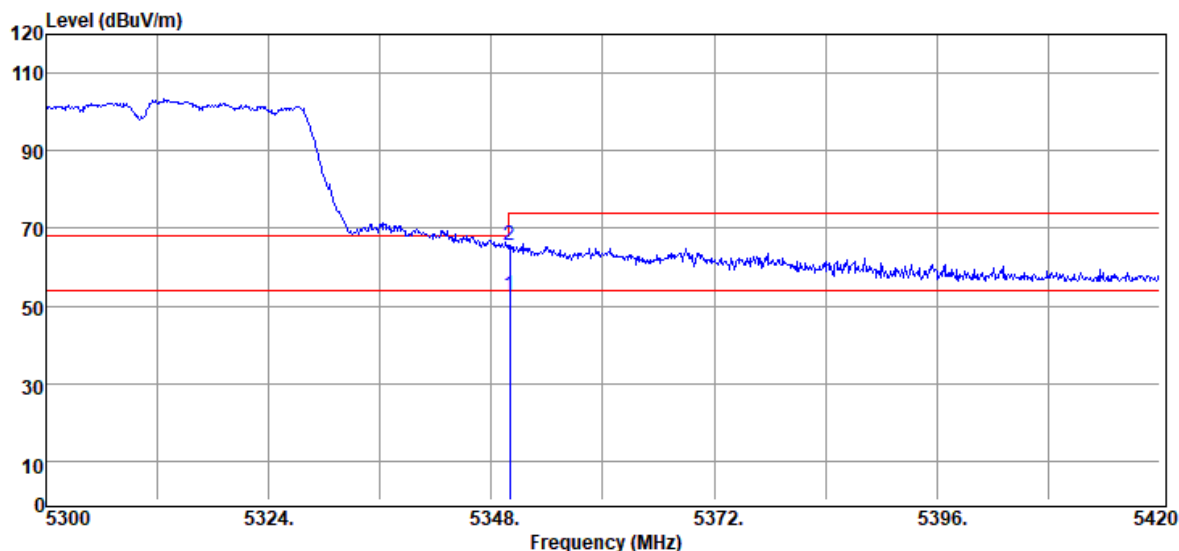
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Report Number :T190816W02
Operation Band :802.11n40/Band 2
Frequency :5310 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.3/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	47.66	5.21	52.87	54.00	-1.13
5350.00	Peak	60.48	5.21	65.69	74.00	-8.31

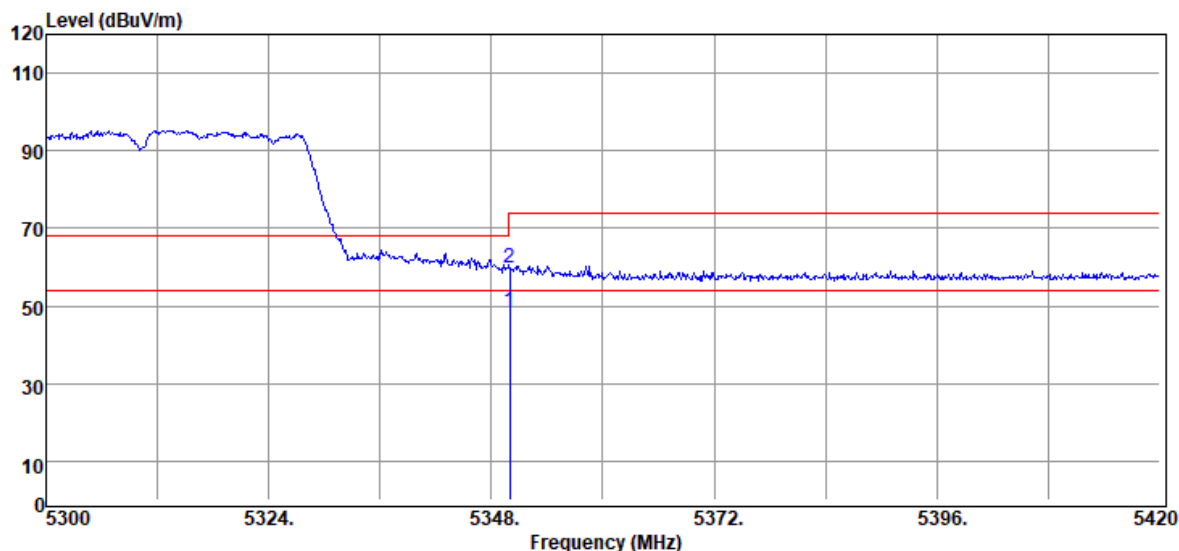
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Report Number :T190816W02
Operation Band :802.11n40/Band 2
Frequency :5310 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.3/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	43.23	5.21	48.44	54.00	-5.56
5350.00	Peak	54.76	5.21	59.97	74.00	-14.03

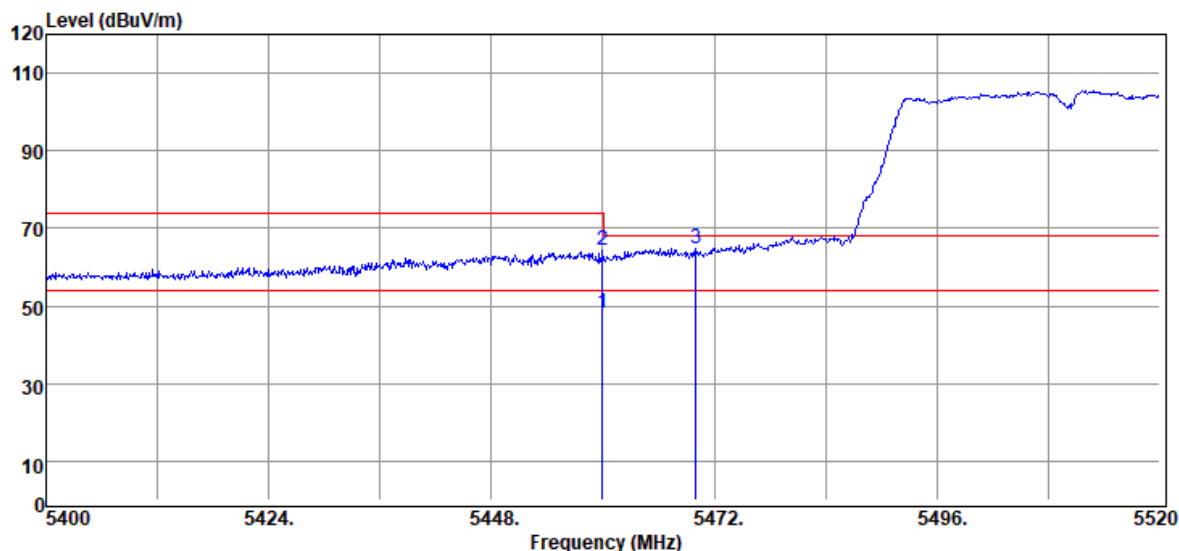
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Report Number :T190816W02
Operation Band :802.11n40/Band 3
Frequency :5510 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.3/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	42.33	5.63	47.96	54.00	-6.04
5460.00	Peak	58.79	5.63	64.42	74.00	-9.58
5470.00	Peak	59.29	5.65	64.94	68.20	-3.26

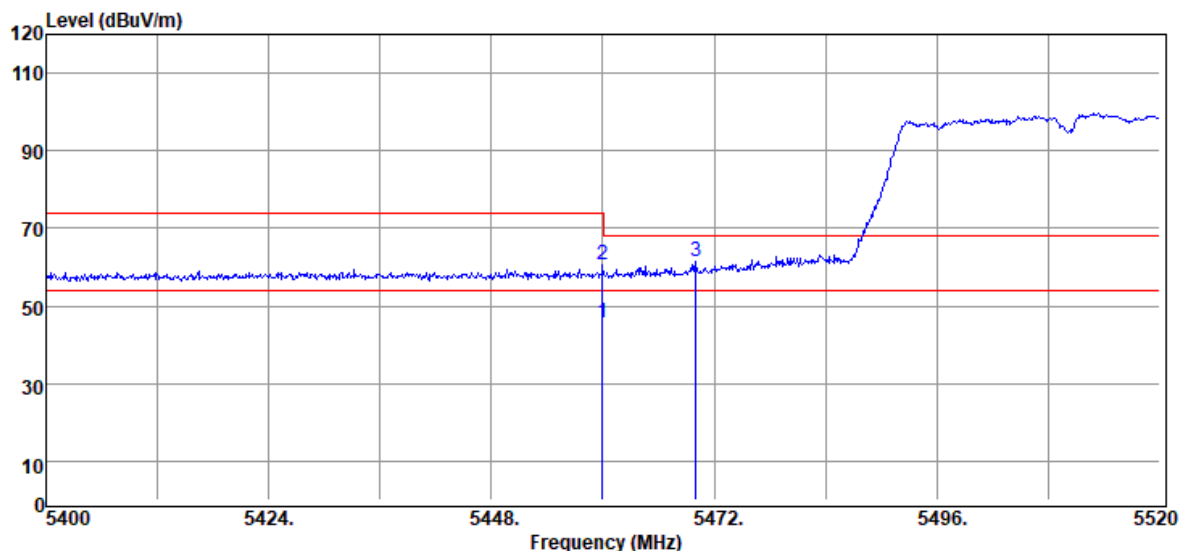
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Report Number :T190816W02
Operation Band :802.11n40/Band 3
Frequency :5510 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.3/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	39.89	5.63	45.52	54.00	-8.48
5460.00	Peak	54.84	5.63	60.47	74.00	-13.53
5470.00	Peak	55.70	5.65	61.35	68.20	-6.85

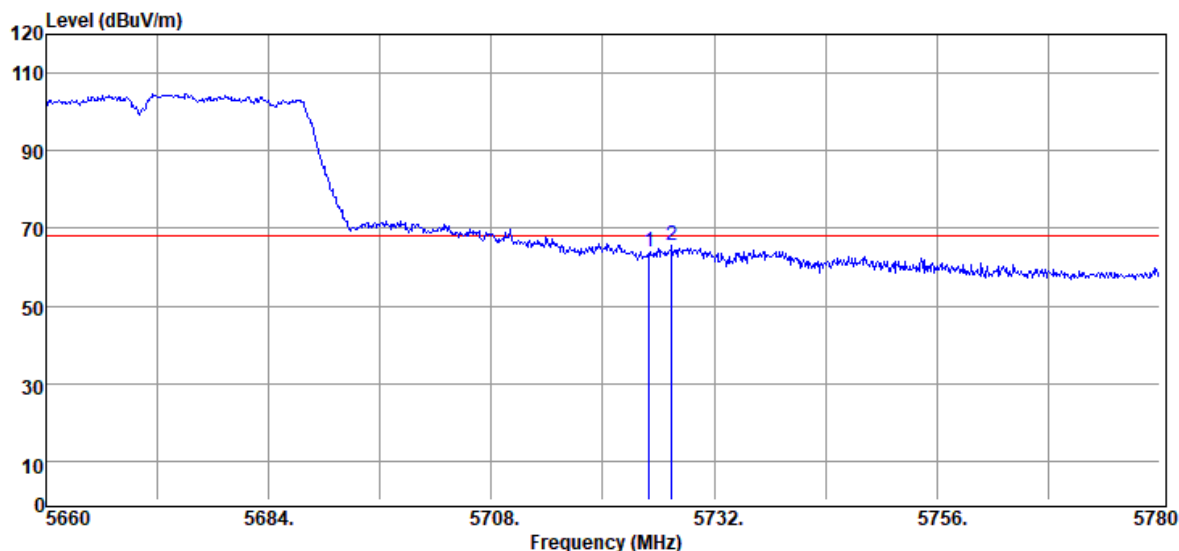
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Report Number :T190816W02
Operation Band :802.11n40/Band 3
Frequency :5670 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	57.67	6.34	64.01	68.20	-4.19
5727.44	Peak	59.11	6.34	65.45	68.20	-2.75

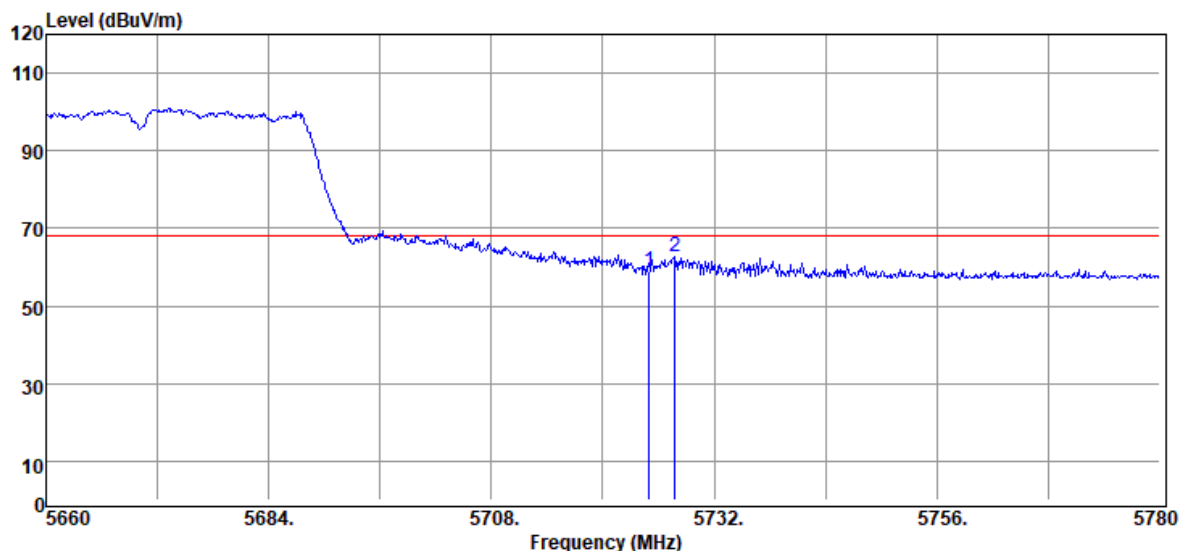
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Report Number :T190816W02
Operation Band :802.11n40/Band 3
Frequency :5670 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.1/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	52.55	6.34	58.89	68.20	-9.31
5727.80	Peak	56.51	6.35	62.86	68.20	-5.34

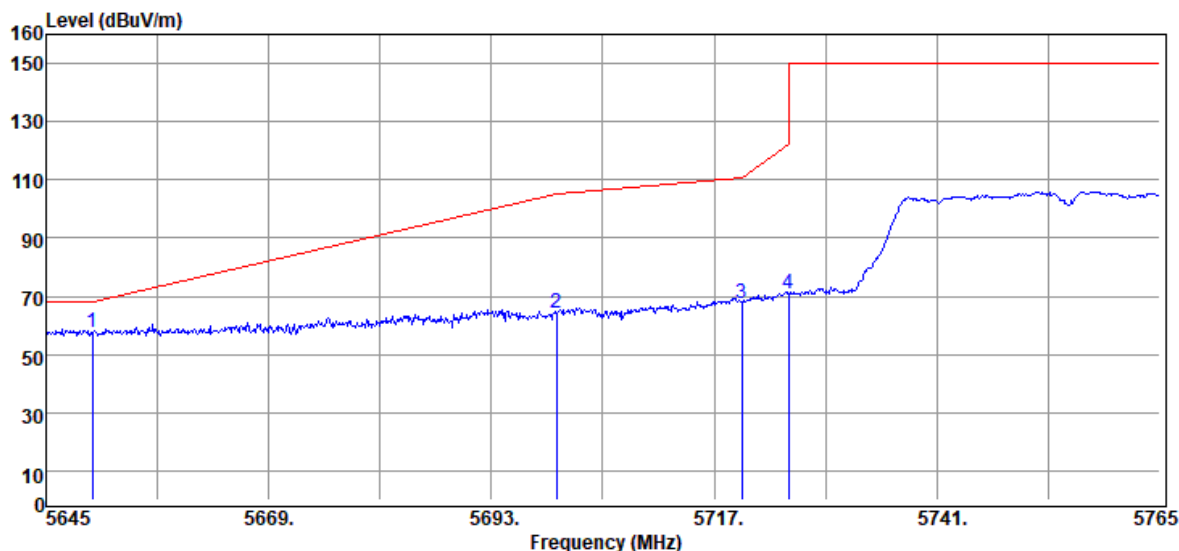
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Report Number :T190816W02
Operation Band :802.11n40/Band 4
Frequency :5755 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.2/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	51.33	6.04	57.37	68.20	-10.83
5700.00	Peak	57.70	6.32	64.02	105.20	-41.18
5720.00	Peak	61.34	6.33	67.67	110.80	-43.13
5725.00	Peak	64.35	6.34	70.69	122.20	-51.51

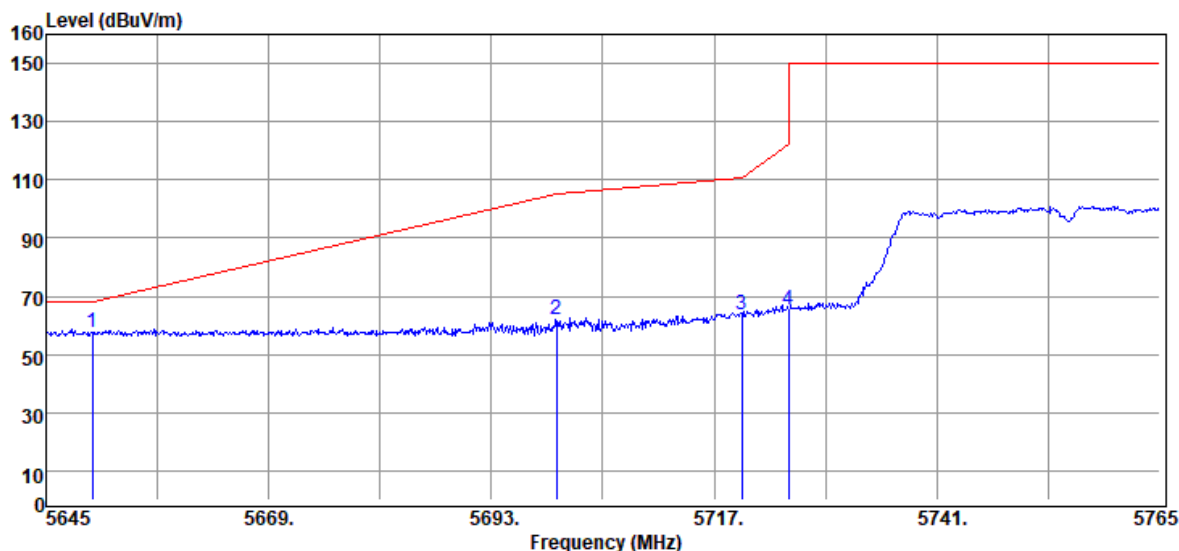
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Report Number :T190816W02
Operation Band :802.11n40/Band 4
Frequency :5755 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.2/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	51.31	6.04	57.35	68.20	-10.85
5700.00	Peak	55.59	6.32	61.91	105.20	-43.29
5720.00	Peak	57.11	6.33	63.44	110.80	-47.36
5725.00	Peak	58.97	6.34	65.31	122.20	-56.89

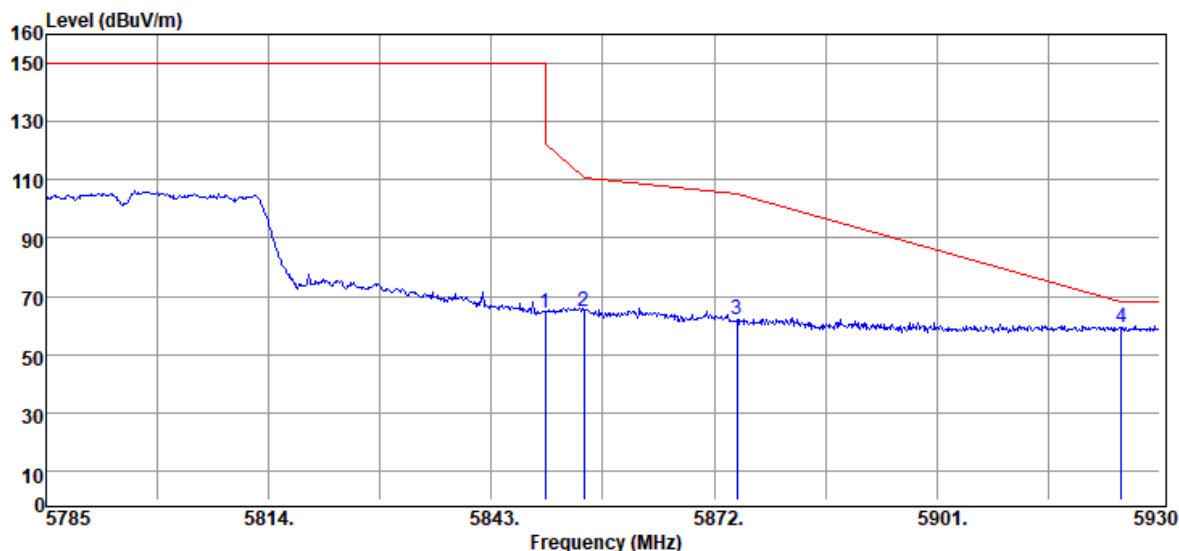
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Report Number :T190816W02
Operation Band :802.11n40/Band 4
Frequency :5795 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.3/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	57.92	6.39	64.31	122.20	-57.89
5855.00	Peak	58.51	6.38	64.89	110.80	-45.91
5875.00	Peak	55.47	6.37	61.84	105.20	-43.36
5925.00	Peak	52.56	6.42	58.98	68.20	-9.22

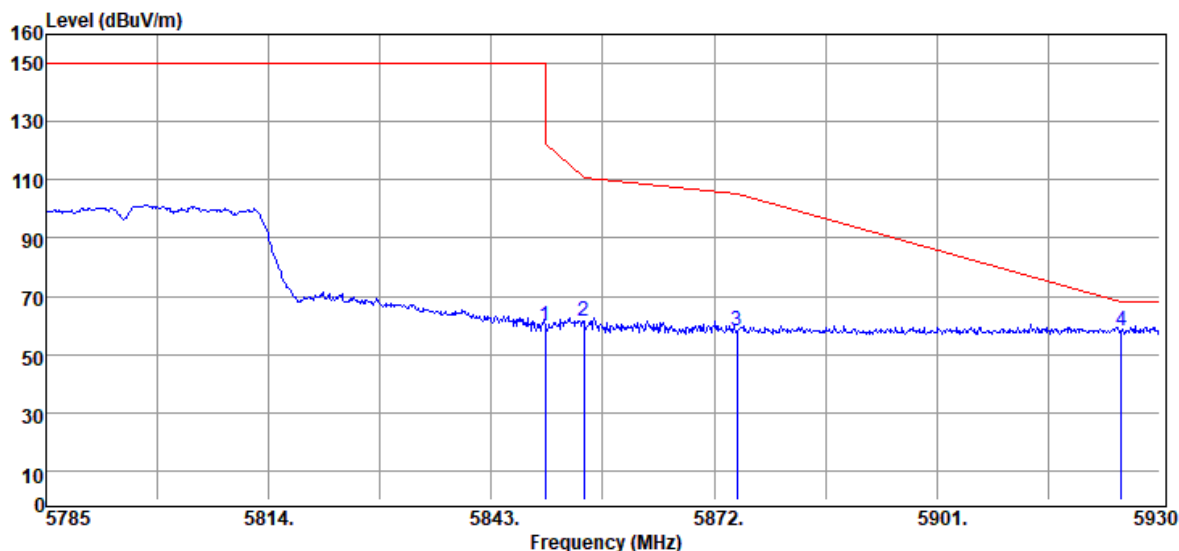
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Report Number :T190816W02
Operation Band :802.11n40/Band 4
Frequency :5795 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.3/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	53.41	6.39	59.80	122.20	-62.40
5855.00	Peak	55.00	6.38	61.38	110.80	-49.42
5875.00	Peak	51.50	6.37	57.87	105.20	-47.33
5925.00	Peak	51.50	6.42	57.92	68.20	-10.28

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802.11ac80 VHT mode

Report Number :T190816W02

Operation Band :802.11ac80/Band 1

Frequency :5210 MHz

Operation Mode :BE CH LOW

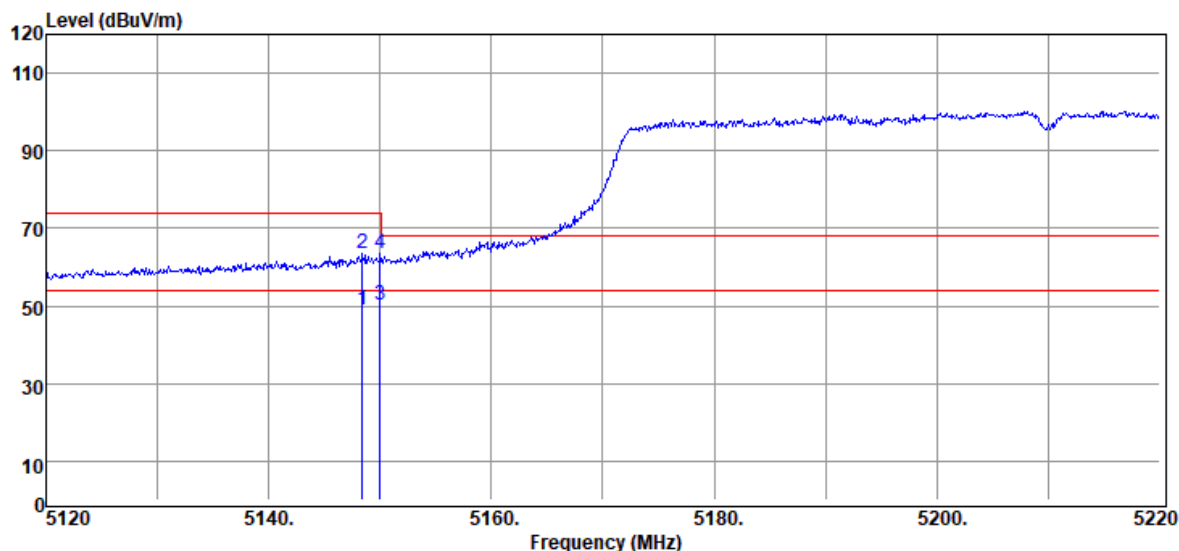
EUT Pol. :H Plan

Test Date :2019-08-19

Temp./Humi. :26.3/52

Antenna Pol. :VERTICAL

Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5148.40	Average	44.27	4.92	49.19	54.00	-4.81
5148.40	Peak	58.54	4.92	63.46	74.00	-10.54
5150.00	Average	45.33	4.92	50.25	54.00	-3.75
5150.00	Peak	58.46	4.92	63.38	74.00	-10.62

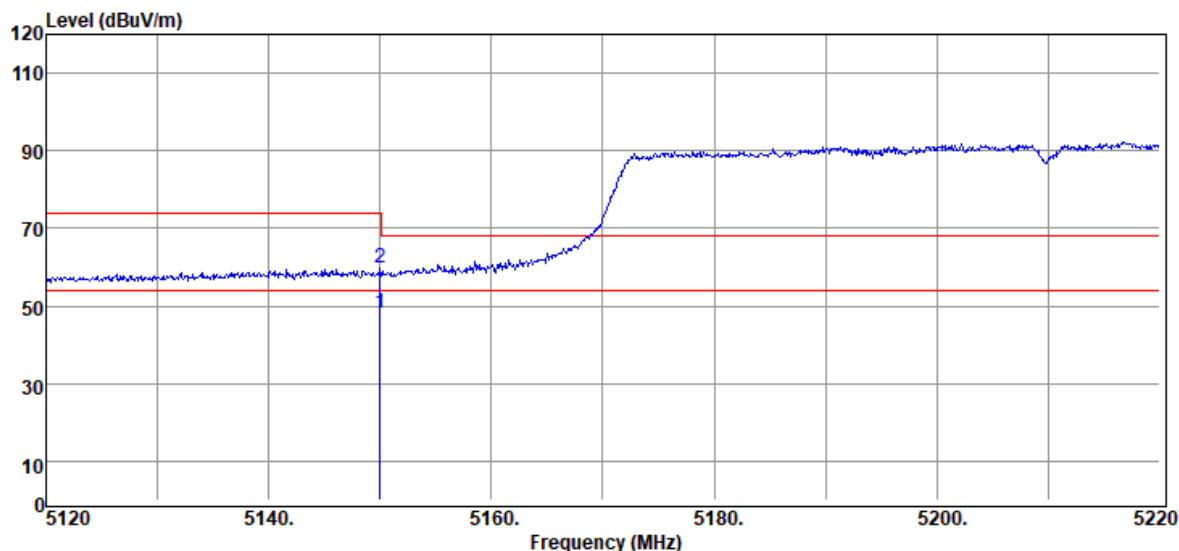
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Report Number :T190816W02
Operation Band :802.11ac80/Band 1
Frequency :5210 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.3/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	43.16	4.92	48.08	54.00	-5.92
5150.00	Peak	55.08	4.92	60.00	74.00	-14.00

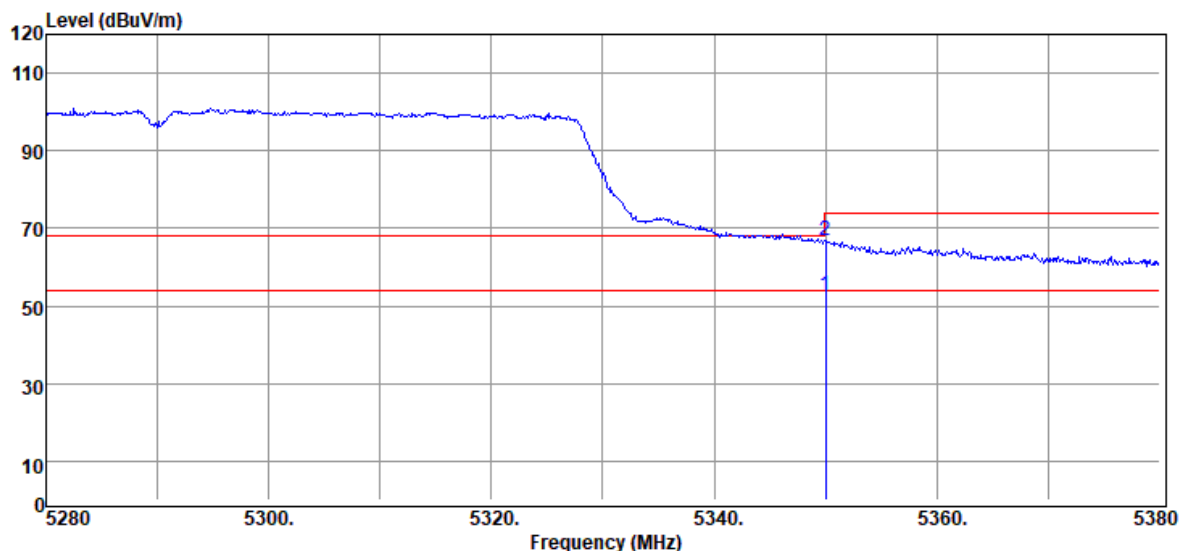
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Report Number :T190816W02
Operation Band :802.11ac80/Band 2
Frequency :5290 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.3/52
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	47.66	5.21	52.87	54.00	-1.13
5350.00	Peak	61.74	5.21	66.95	74.00	-7.05

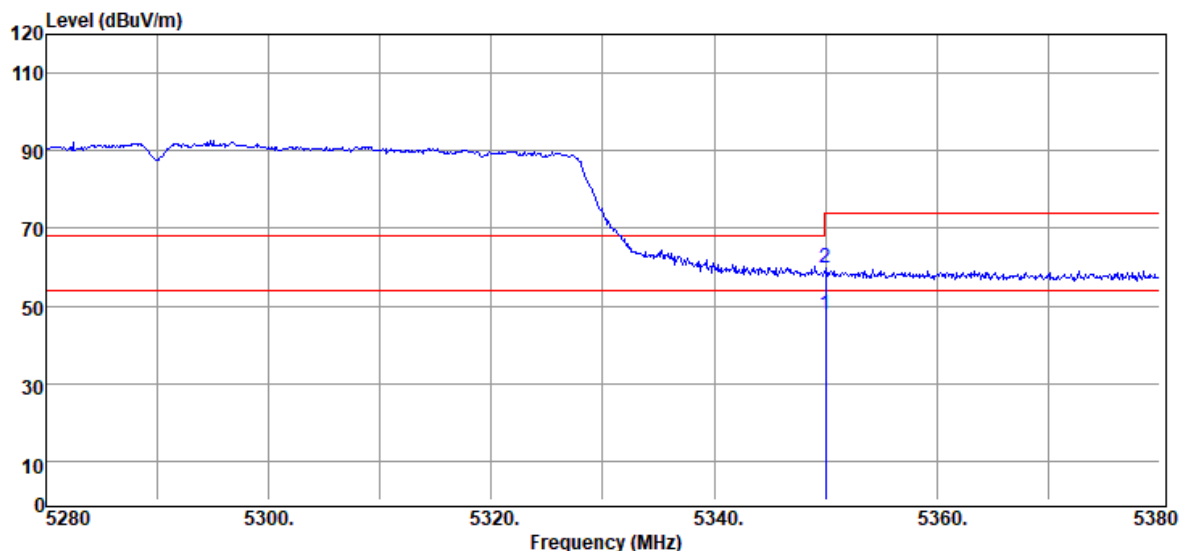
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Report Number :T190816W02
Operation Band :802.11ac80/Band 2
Frequency :5290 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.3/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	42.63	5.21	47.84	54.00	-6.16
5350.00	Peak	54.60	5.21	59.81	74.00	-14.19

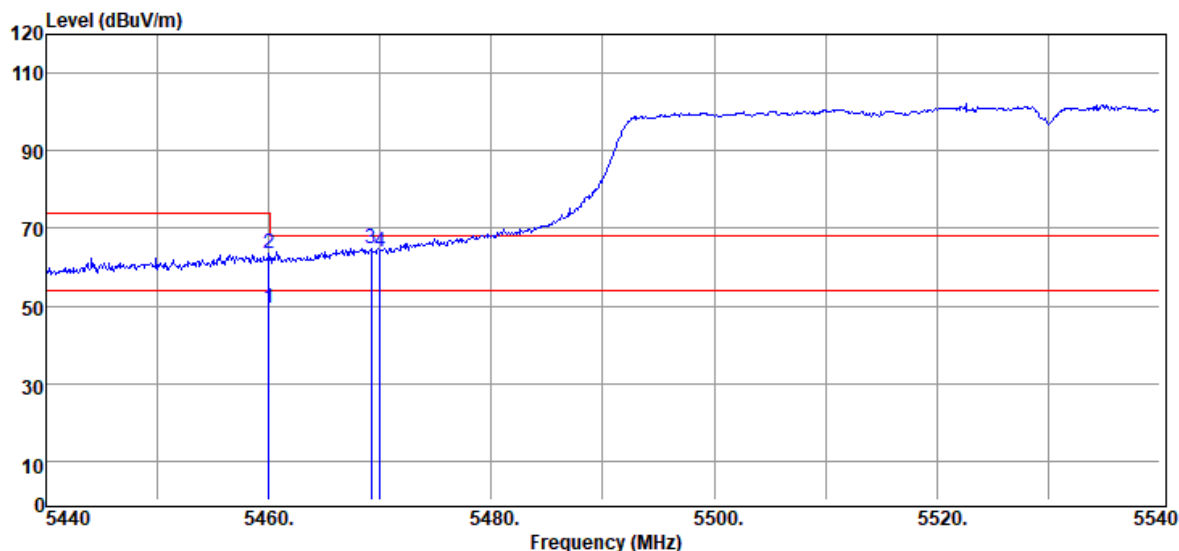
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Report Number :T190816W02
Operation Band :802.11ac80/Band 3
Frequency :5530 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.3/52
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	43.66	5.63	49.29	54.00	-4.71
5460.00	Peak	58.09	5.63	63.72	74.00	-10.28
5469.20	Peak	59.30	5.65	64.95	68.20	-3.25
5470.00	Peak	58.21	5.65	63.86	68.20	-4.34

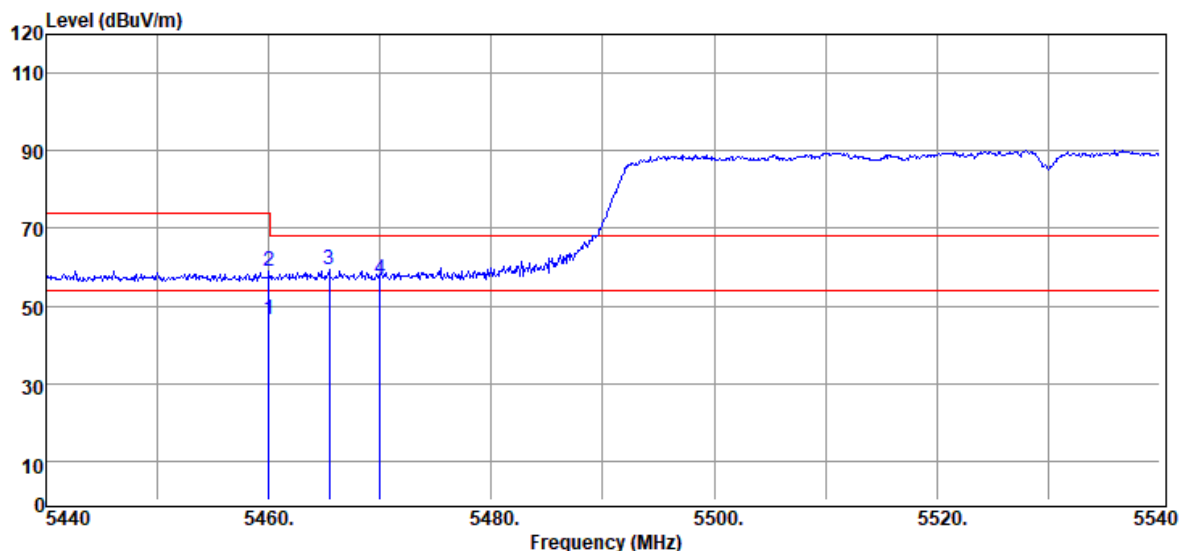
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Report Number :T190816W02
Operation Band :802.11ac80/Band 3
Frequency :5530 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.3/52
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	40.95	5.63	46.58	54.00	-7.42
5460.00	Peak	53.49	5.63	59.12	74.00	-14.88
5465.40	Peak	53.86	5.64	59.50	68.20	-8.70
5470.00	Peak	51.16	5.65	56.81	68.20	-11.39

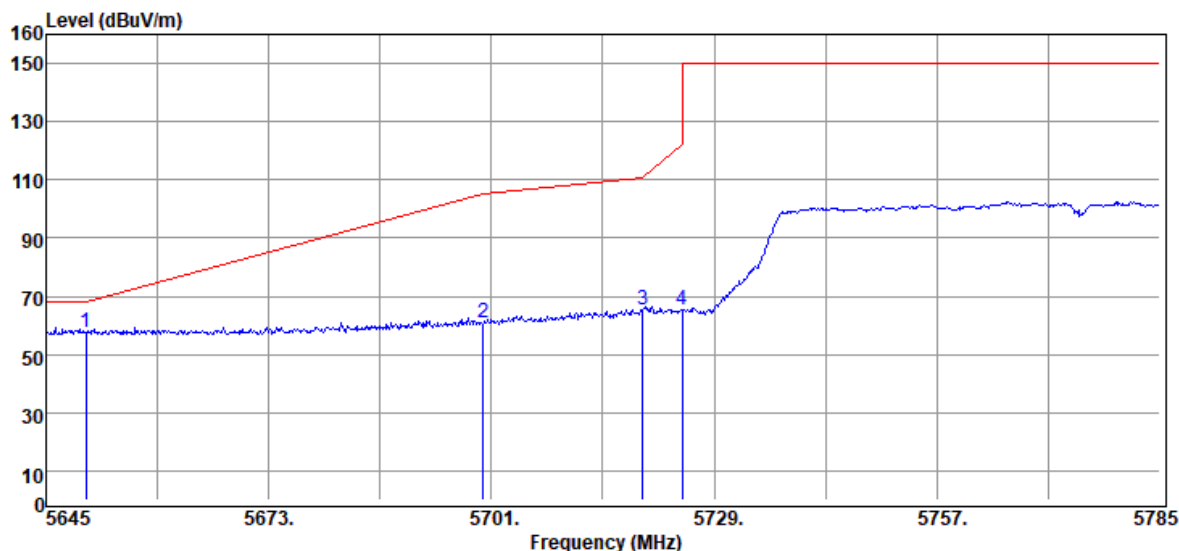
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Report Number :T190816W02
Operation Band :802.11ac80/Band 4
Frequency :5775MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.2/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	51.51	6.04	57.55	68.20	-10.65
5700.00	Peak	54.78	6.32	61.10	105.20	-44.10
5720.00	Peak	59.00	6.33	65.33	110.80	-45.47
5725.00	Peak	59.12	6.34	65.46	122.20	-56.74

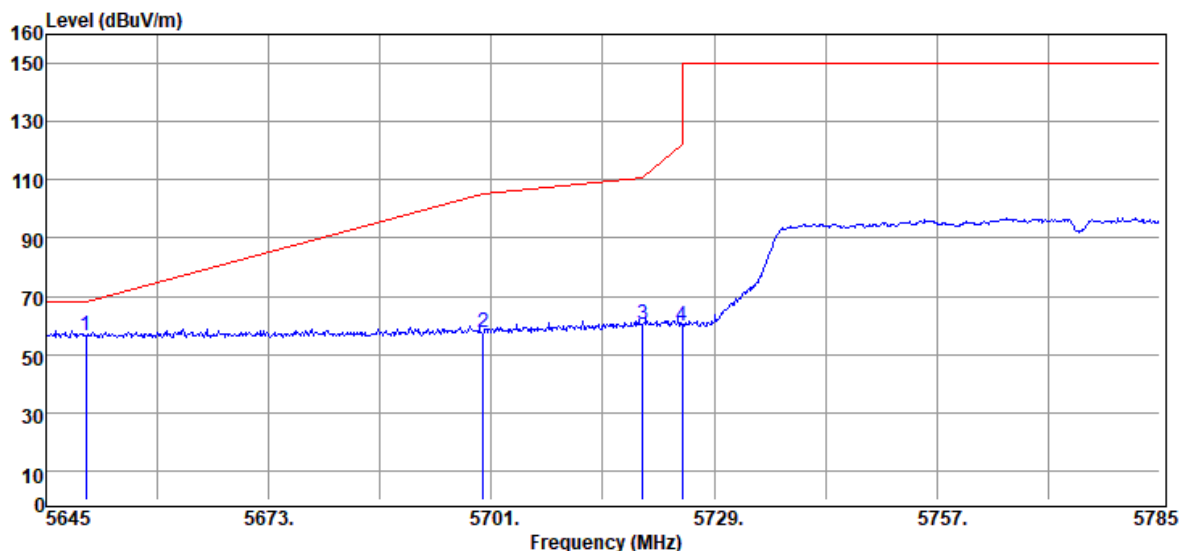
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Report Number :T190816W02
Operation Band :802.11ac80/Band 4
Frequency :5775MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.2/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	50.48	6.04	56.52	68.20	-11.68
5700.00	Peak	51.34	6.32	57.66	105.20	-47.54
5720.00	Peak	53.89	6.33	60.22	110.80	-50.58
5725.00	Peak	53.61	6.34	59.95	122.20	-62.25

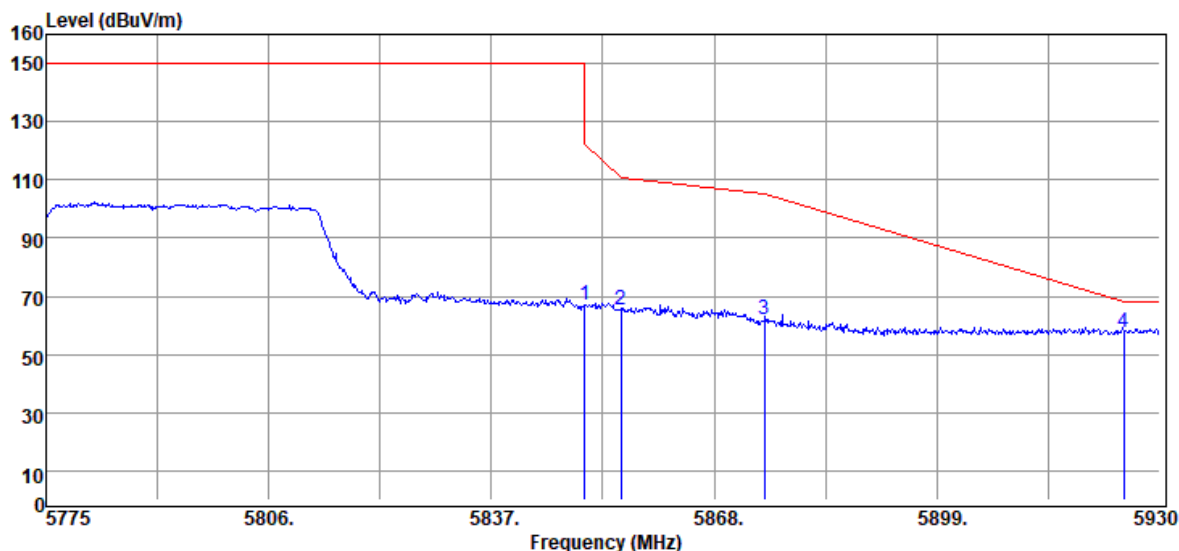
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Report Number :T190816W02
Operation Band :802.11ac80/Band 4
Frequency :5775 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.2/53
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	60.45	6.39	66.84	122.20	-55.36
5855.00	Peak	58.91	6.38	65.29	110.80	-45.51
5875.00	Peak	55.48	6.37	61.85	105.20	-43.35
5925.00	Peak	51.32	6.42	57.74	68.20	-10.46

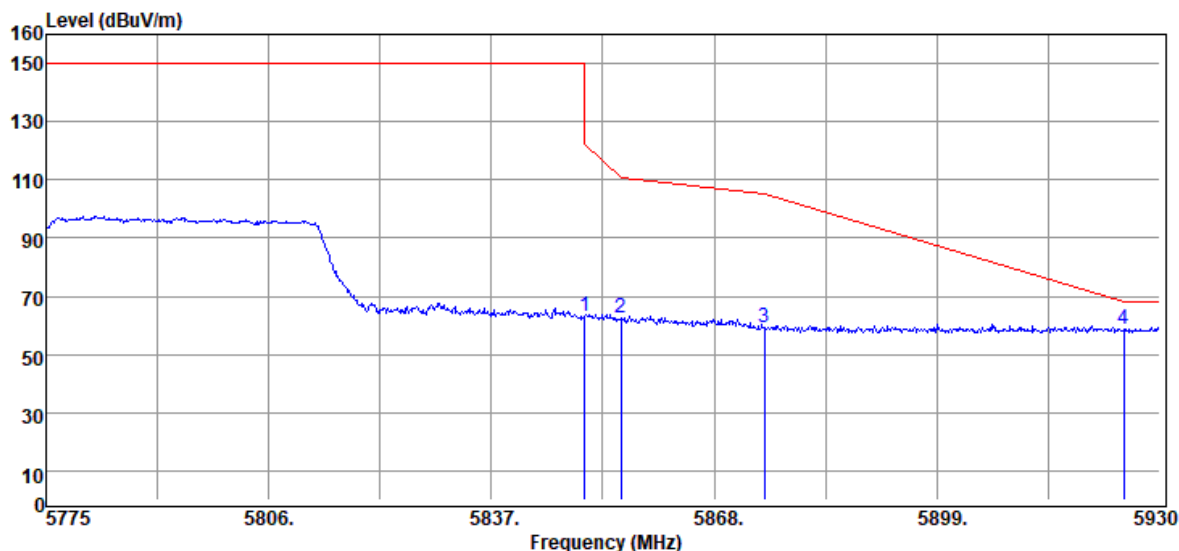
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Report Number :T190816W02
Operation Band :802.11ac80/Band 4
Frequency :5775 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-08-19
Temp./Humi. :26.2/53
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	56.86	6.39	63.25	122.20	-58.95
5855.00	Peak	55.96	6.38	62.34	110.80	-48.46
5875.00	Peak	52.89	6.37	59.26	105.20	-45.94
5925.00	Peak	52.33	6.42	58.75	68.20	-9.45

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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

12.2 Result

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

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13 FREQUENCY STABILITY

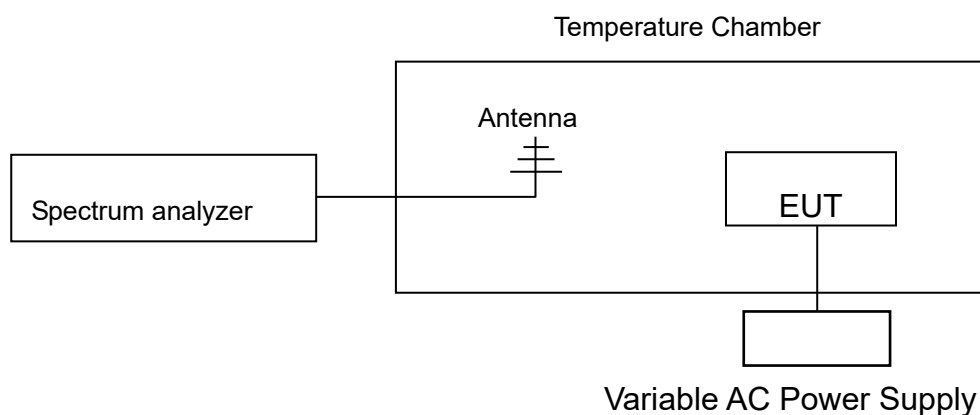
13.1 Standard Applicable

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

13.2 Measurement Procedure

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

13.3 Test SET-UP



13.4 Measurement Equipment Used:

Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Block	PASTERNAK	PE8210	RF256	02/26/2019	02/25/2020
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
Thermostatic/Hrgrosatic Chamber	GWINSTEK	GTC-288MH-CC	TH160402	05/16/2019	05/15/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020

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13.5 Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2019.08.20
Temperature	: 23.3°C	Test By	Hone
Humidity	: 68%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	8.7	36	5180	5,179.99730	0.00000052
	6	36	5180	5,179.99780	0.00000042
25	7.6	36	5180	5,179.99240	0.00000147
40	8.7	36	5180	5,179.99080	0.00000178
	6	36	5180	5,179.99390	0.00000118

2 Minutes:

Operation Mode	802.11 a	Test Date	2019.08.20
Temperature	: 23.3°C	Test By	Hone
Humidity	: 68%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	8.7	36	5180	5,179.99690	0.00000060
	6	36	5180	5,179.99660	0.00000066
25	7.6	36	5180	5,179.99700	0.00000058
40	8.7	36	5180	5,179.99340	0.00000127
	6	36	5180	5,179.98940	0.00000205

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5 Minutes:

Operation Mode	802.11 a	Test Date	2019.08.20
Temperature	: 23.3°C	Test By	Hone
Humidity	: 68%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	8.7	36	5180	5,179.99290	0.00000137
	6	36	5180	5,179.99160	0.00000162
25	7.6	36	5180	5,179.98750	0.00000241
40	8.7	36	5180	5,179.98880	0.00000216
	6	36	5180	5,179.99440	0.00000108

10 Minutes:

Operation Mode	802.11 a	Test Date	2019.08.20
Temperature	: 23.3°C	Test By	Hone
Humidity	: 68%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	8.7	36	5180	5,179.99490	0.00000098
	6	36	5180	5,179.99590	0.00000079
25	7.6	36	5180	5,179.98630	0.00000264
40	8.7	36	5180	5,179.99880	0.00000023
	6	36	5180	5,179.99180	0.00000158

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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

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

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

14.2 Antenna Connected Construction

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

~ End of Report ~

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