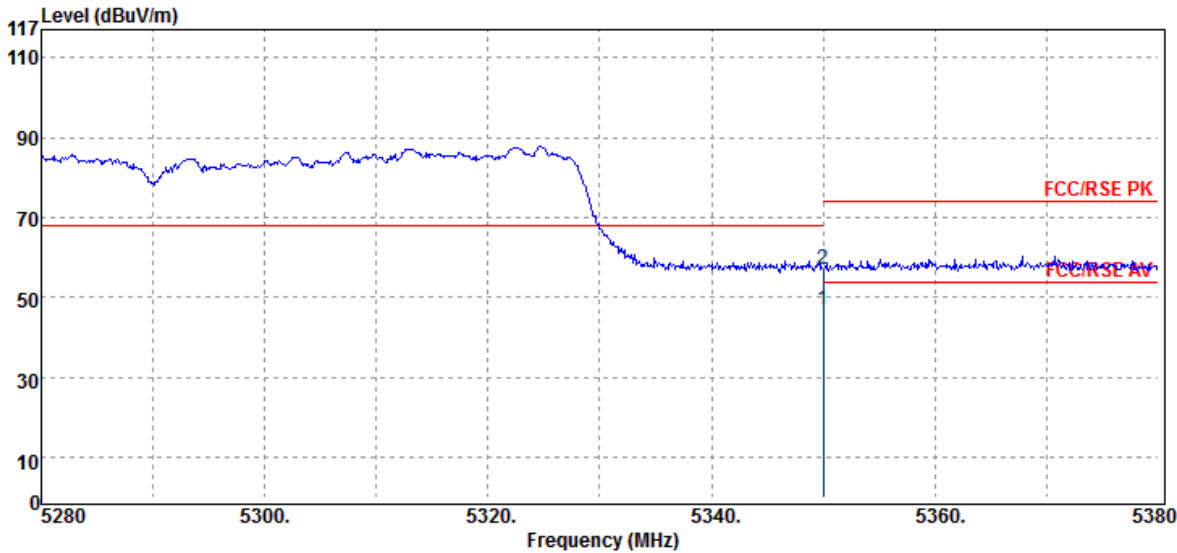


Operation Band	:802.11ac80B2	Test Date	:2018-09-19
Fundamental Frequency	:5290 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



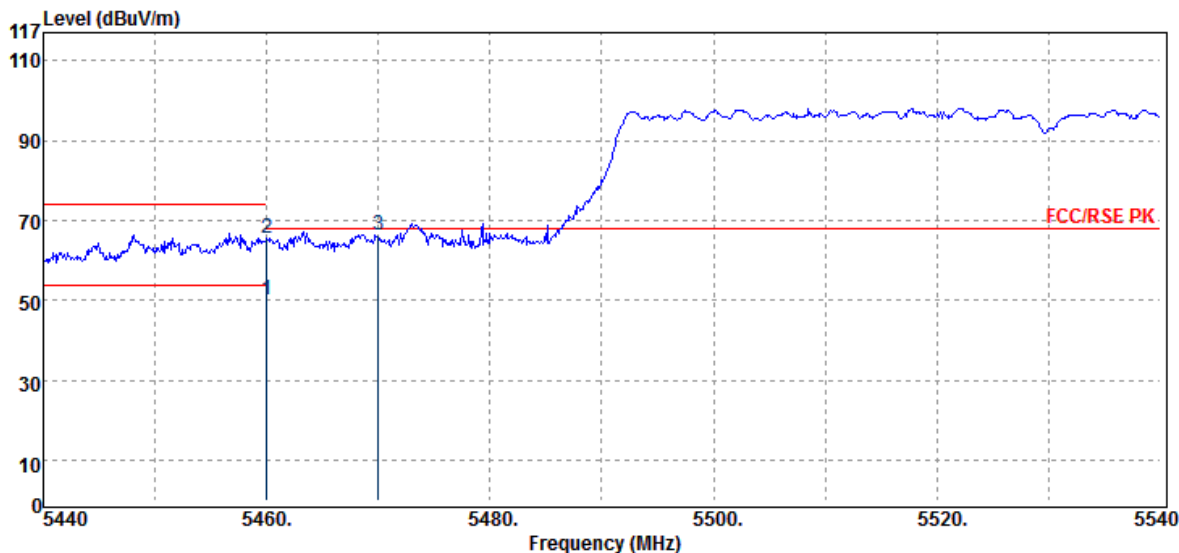
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	38.45	8.63	47.08	54.00	-6.92
5350.00	Peak	48.43	8.63	57.06	74.00	-16.94

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Operation Band	:802.11ac80B3	Test Date	:2018-09-19
Fundamental Frequency	:5530 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



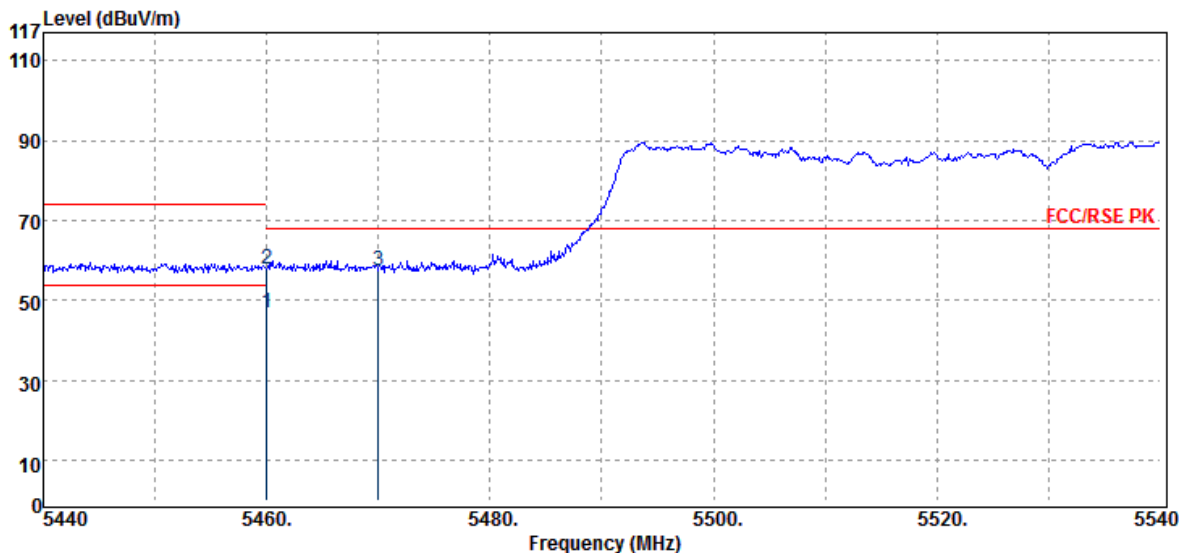
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5460.00	Average	41.44	8.75	50.19	54.00	-3.81
5460.00	Peak	56.81	8.75	65.56	74.00	-8.44
5470.00	Peak	57.65	8.74	66.39	68.20	-1.81

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Operation Band	:802.11ac80B3	Test Date	:2018-09-19
Fundamental Frequency	:5530 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5460.00	Average	38.30	8.75	47.05	54.00	-6.95
5460.00	Peak	48.98	8.75	57.73	74.00	-16.27
5470.00	Peak	48.92	8.74	57.66	68.20	-10.54

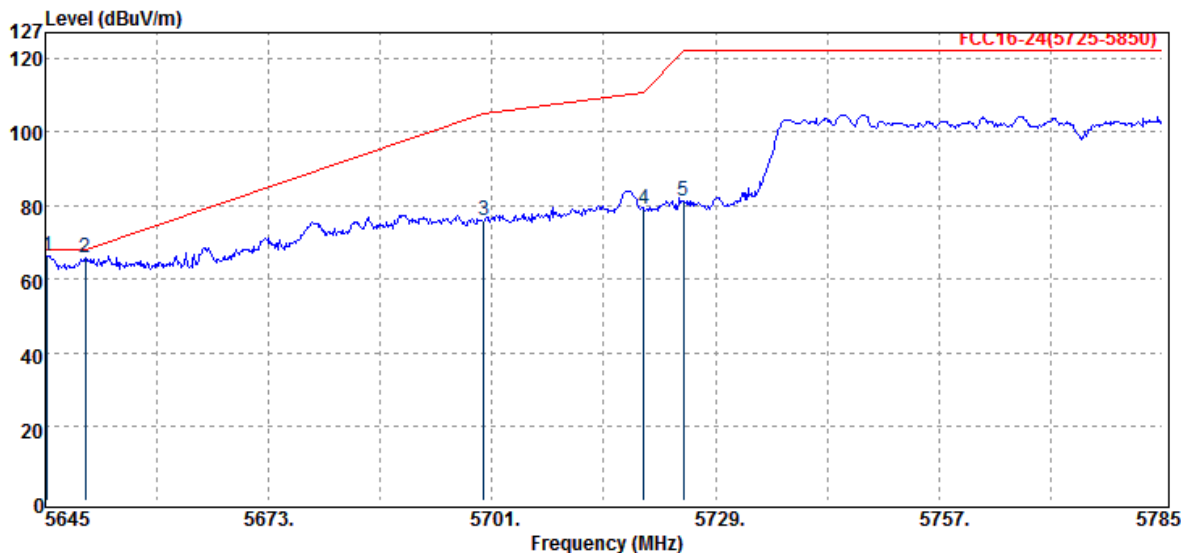
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Operation Band :802.11ac80B4
 Fundamental Frequency :5775 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-09-19
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



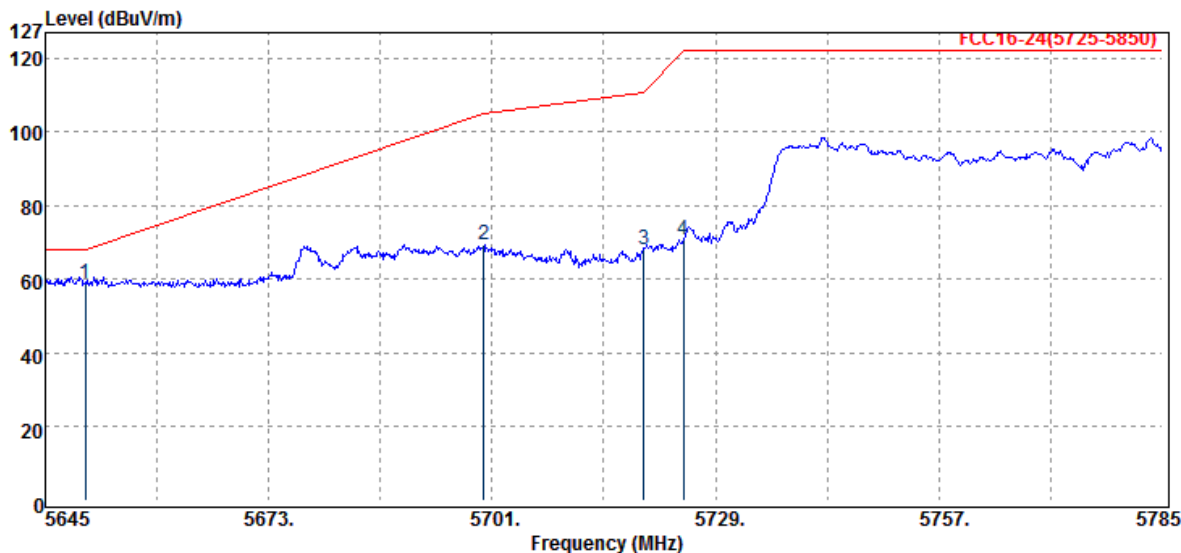
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5645.28	Peak	57.38	9.19	66.57	68.23	-1.66
5650.00	Peak	56.55	9.20	65.75	68.23	-2.48
5700.00	Peak	66.60	9.35	75.95	105.23	-29.28
5720.00	Peak	69.46	9.43	78.89	110.83	-31.94
5725.00	Peak	71.69	9.44	81.13	122.23	-41.10

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Operation Band	:802.11ac80B4	Test Date	:2018-09-19
Fundamental Frequency	:5775 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



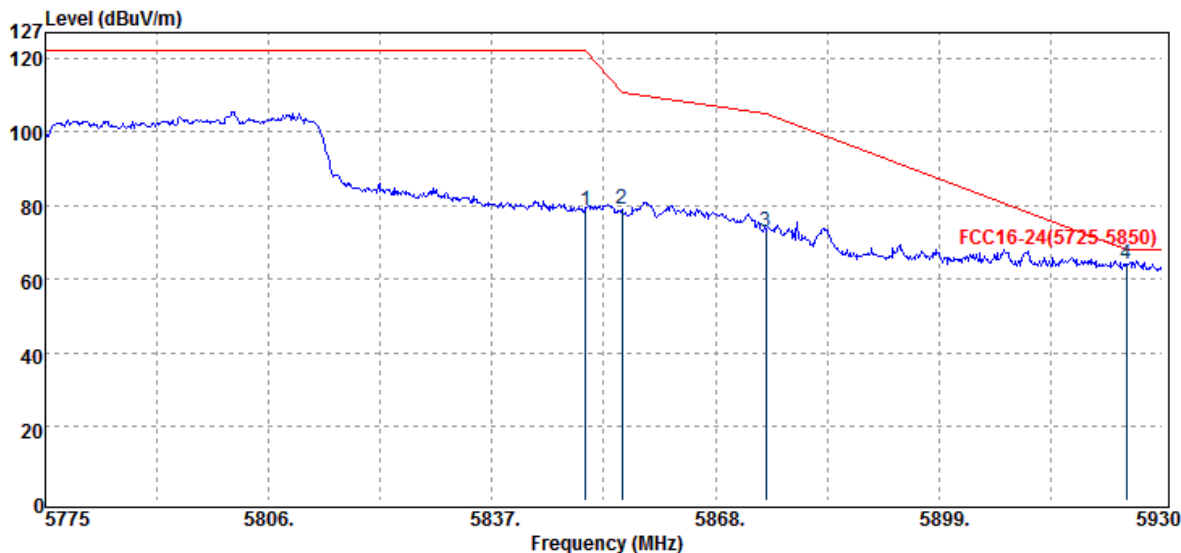
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	Peak	49.67	9.20	58.87	68.23	-9.36
5700.00	Peak	59.92	9.35	69.27	105.23	-35.96
5720.00	Peak	58.63	9.43	68.06	110.83	-42.77
5725.00	Peak	61.18	9.44	70.62	122.23	-51.61

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Operation Band	:802.11ac80B4	Test Date	:2018-09-19
Fundamental Frequency	:5775 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



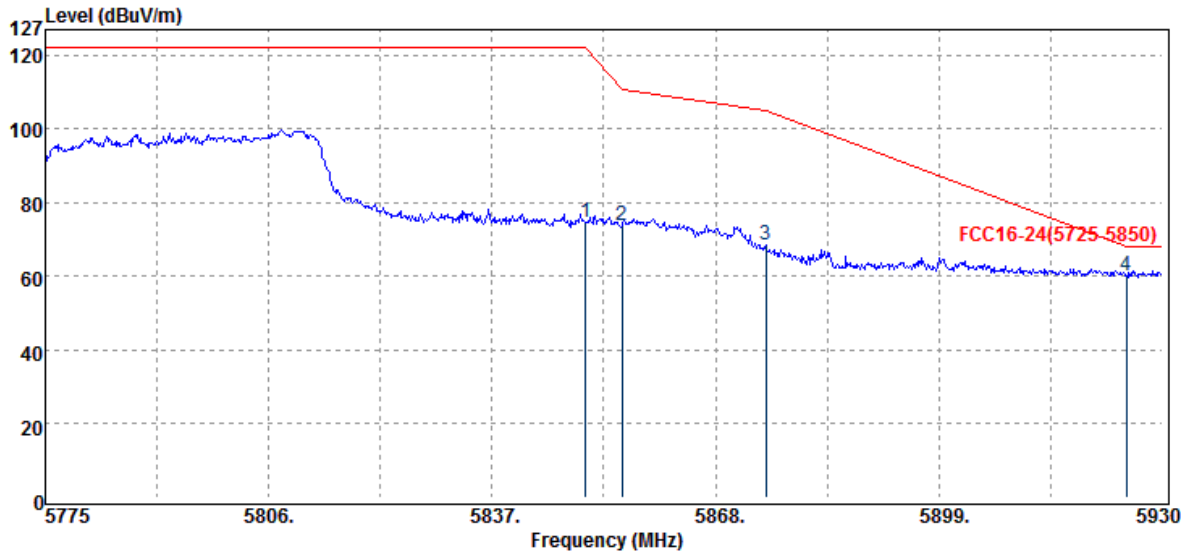
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	68.78	9.77	78.55	122.23	-43.68
5855.00	Peak	69.20	9.78	78.98	110.83	-31.85
5875.00	Peak	63.34	9.82	73.16	105.23	-32.07
5925.00	Peak	54.34	9.98	64.32	68.23	-3.91

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Operation Band	:802.11ac80B4	Test Date	:2018-09-19
Fundamental Frequency	:5775 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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	65.02	9.77	74.79	122.23	-47.44
5855.00	Peak	64.08	9.78	73.86	110.83	-36.97
5875.00	Peak	58.63	9.82	68.45	105.23	-36.78
5925.00	Peak	50.43	9.98	60.41	68.23	-7.82

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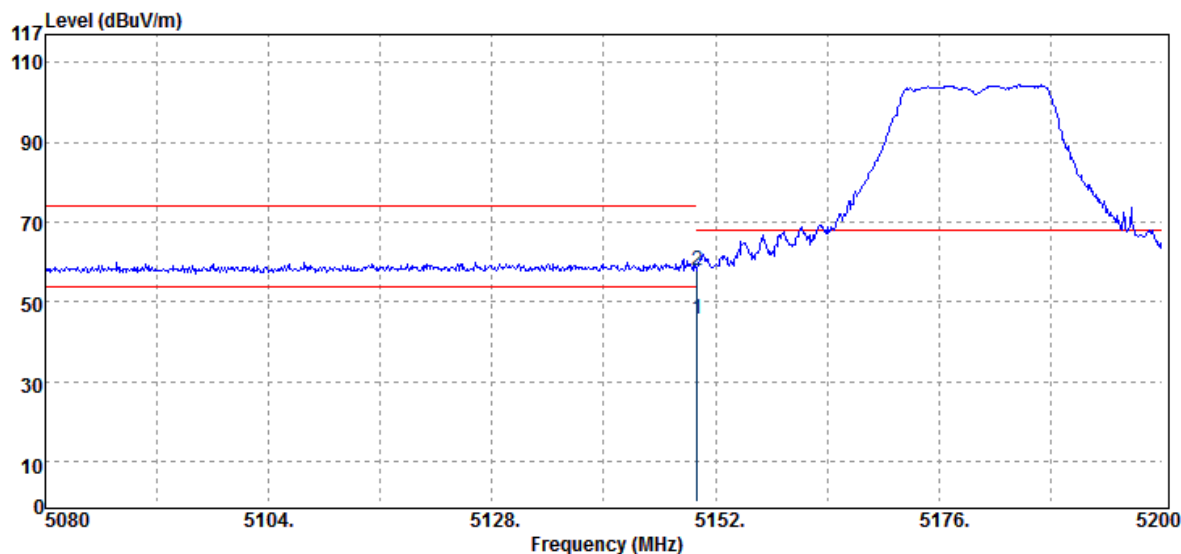
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Internal Antenna (Type: Printed antenna, Model no: N/A)

802.11a mode

Operation Band	:802.11aB1	Test Date	:2018-09-26
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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	37.63	8.32	45.95	54.00	-8.05
5150.00	Peak	49.74	8.32	58.06	74.00	-15.94

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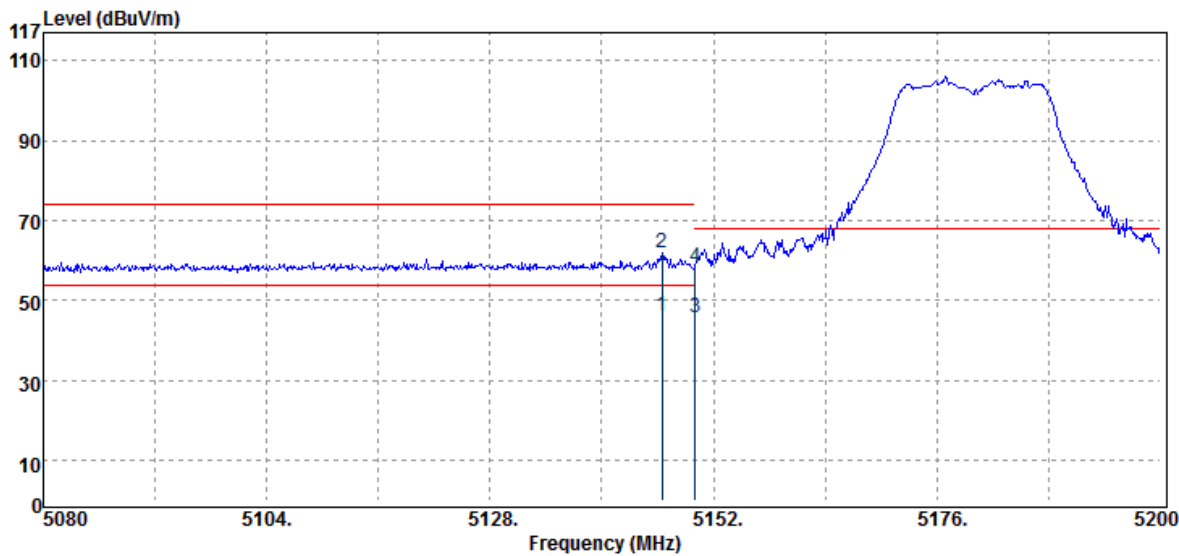
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Operation Band :802.11aB1
 Fundamental Frequency :5180 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E2 Plane

Test Date :2018-09-26
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5146.48	Average	37.84	8.30	46.14	54.00	-7.86
5146.48	Peak	53.46	8.30	61.76	74.00	-12.24
5150.00	Average	37.52	8.32	45.84	54.00	-8.16
5150.00	Peak	49.79	8.32	58.11	74.00	-15.89

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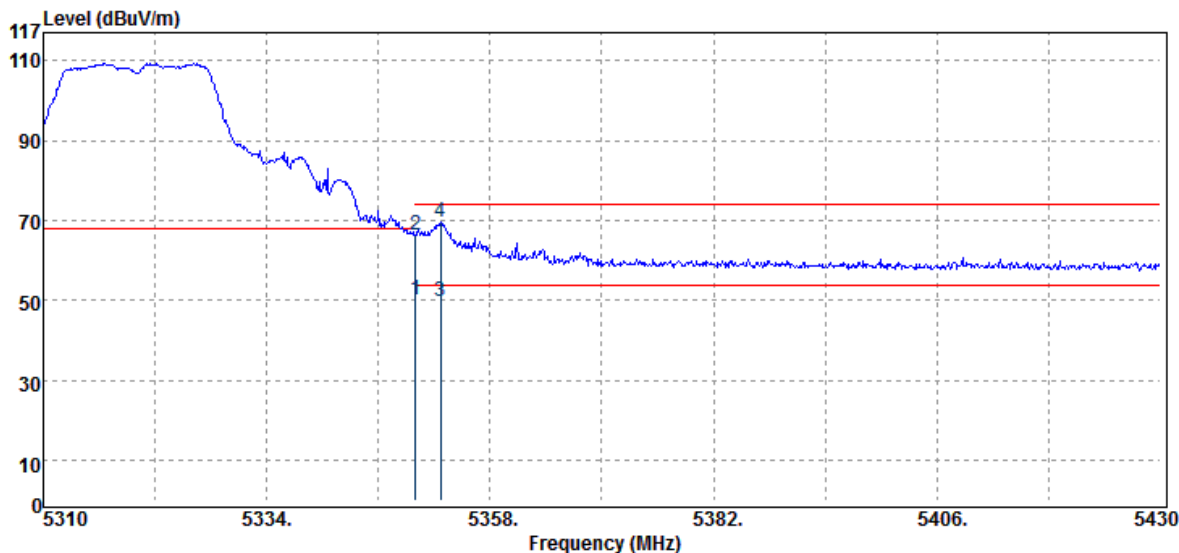
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Operation Band	:802.11aB2	Test Date	:2018-09-26
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	41.74	8.63	50.37	54.00	-3.63
5350.00	Peak	57.76	8.63	66.39	74.00	-7.61
5352.72	Average	41.33	8.65	49.98	54.00	-4.02
5352.72	Peak	60.90	8.65	69.55	74.00	-4.45

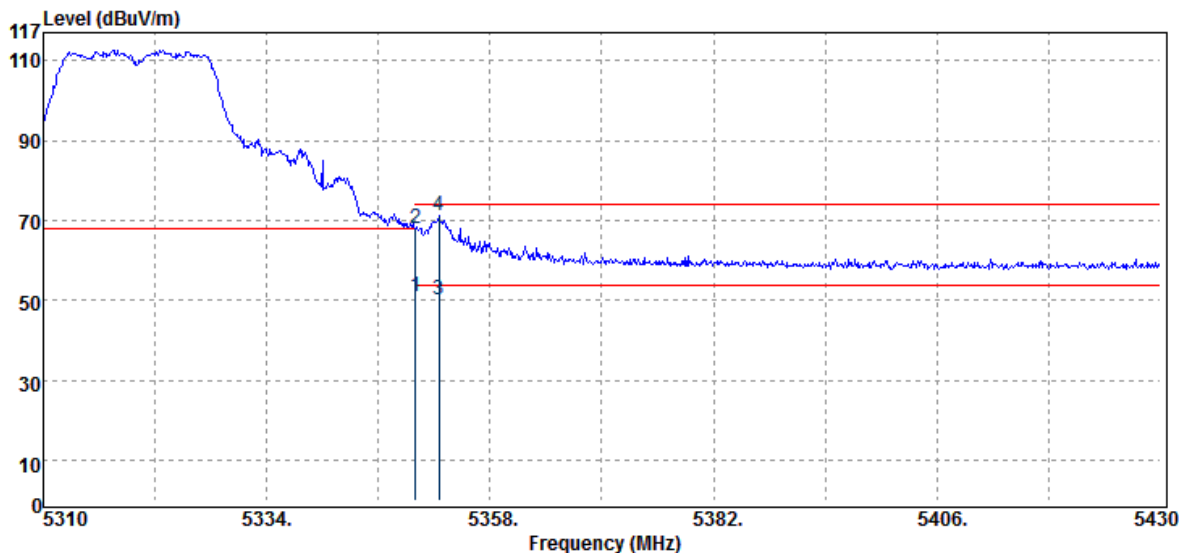
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Operation Band :802.11aB2
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-09-26
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5350.00	Average	42.47	8.63	51.10	54.00	-2.90
5350.00	Peak	59.46	8.63	68.09	74.00	-5.91
5352.48	Average	41.66	8.65	50.31	54.00	-3.69
5352.48	Peak	62.52	8.65	71.17	74.00	-2.83

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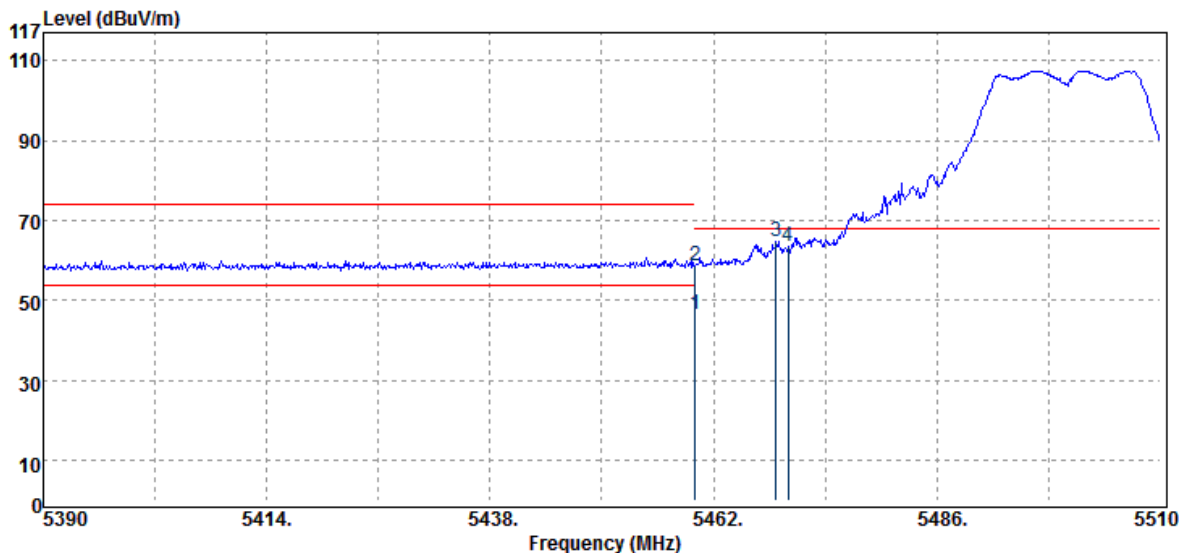
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Operation Band	:802.11aB3	Test Date	:2018-09-26
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



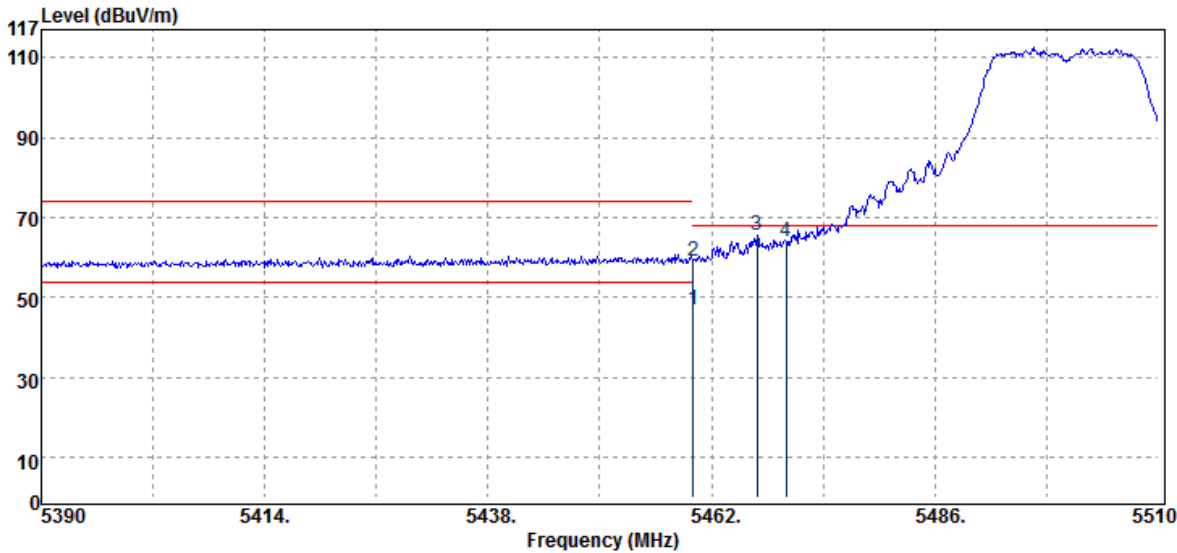
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5460.00	Average	37.88	8.75	46.63	54.00	-7.37
5460.00	Peak	49.93	8.75	58.68	74.00	-15.32
5468.72	Peak	56.20	8.74	64.94	68.20	-3.26
5470.00	Peak	54.73	8.74	63.47	68.20	-4.73

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Operation Band	:802.11aB3	Test Date	:2018-09-26
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



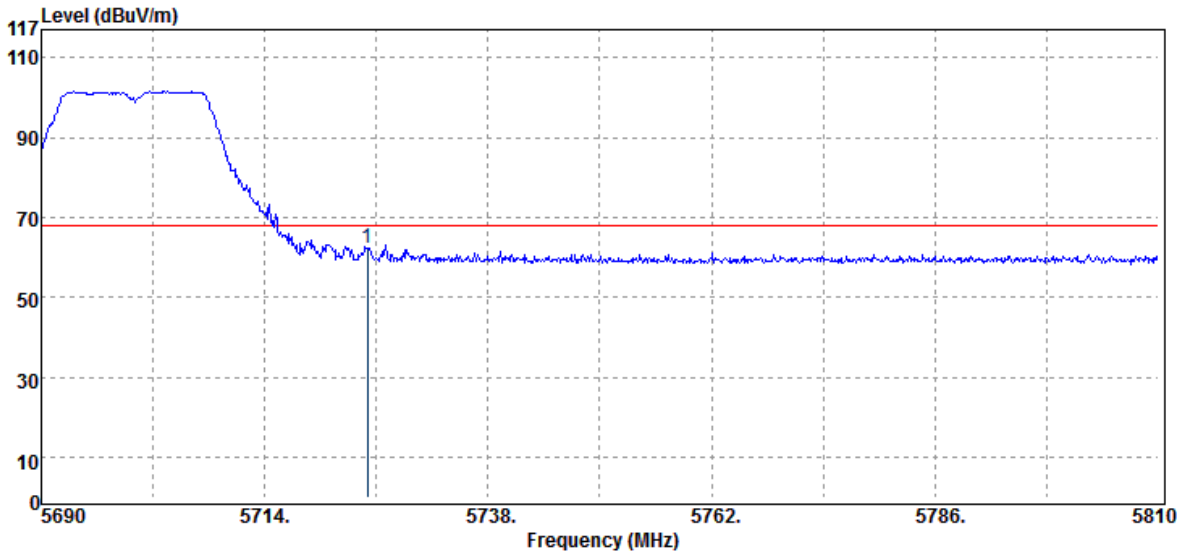
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5460.00	Average	38.24	8.75	46.99	54.00	-7.01
5460.00	Peak	50.45	8.75	59.20	74.00	-14.80
5466.92	Peak	56.67	8.74	65.41	68.20	-2.79
5470.00	Peak	55.21	8.74	63.95	68.20	-4.25

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Operation Band	:802.11aB3	Test Date	:2018-09-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



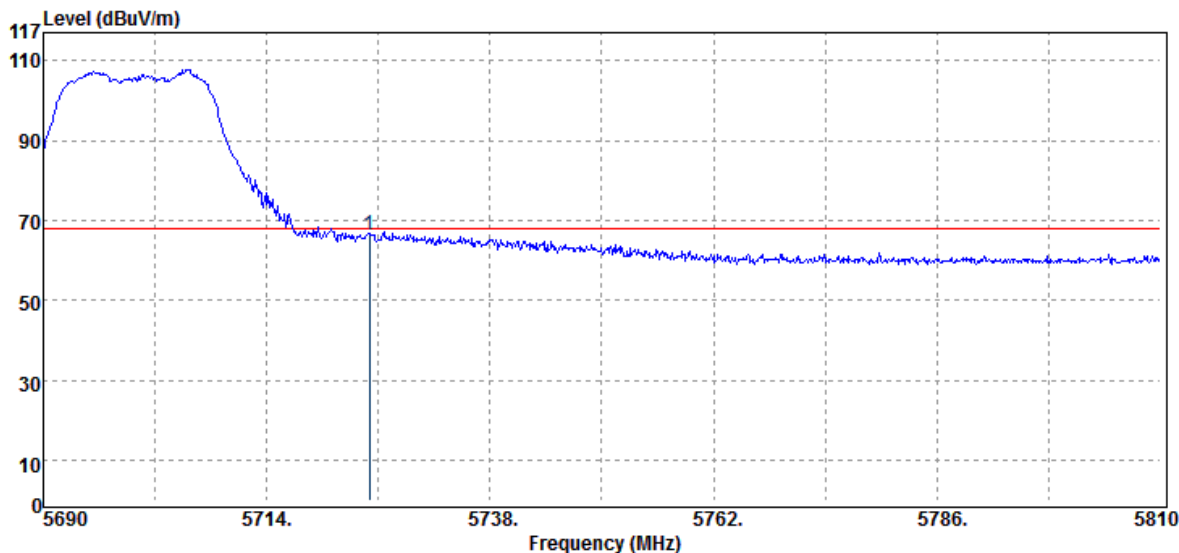
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.00	Peak	53.07	9.44	62.51	68.20	-5.69

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Operation Band	:802.11aB3	Test Date	:2018-09-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



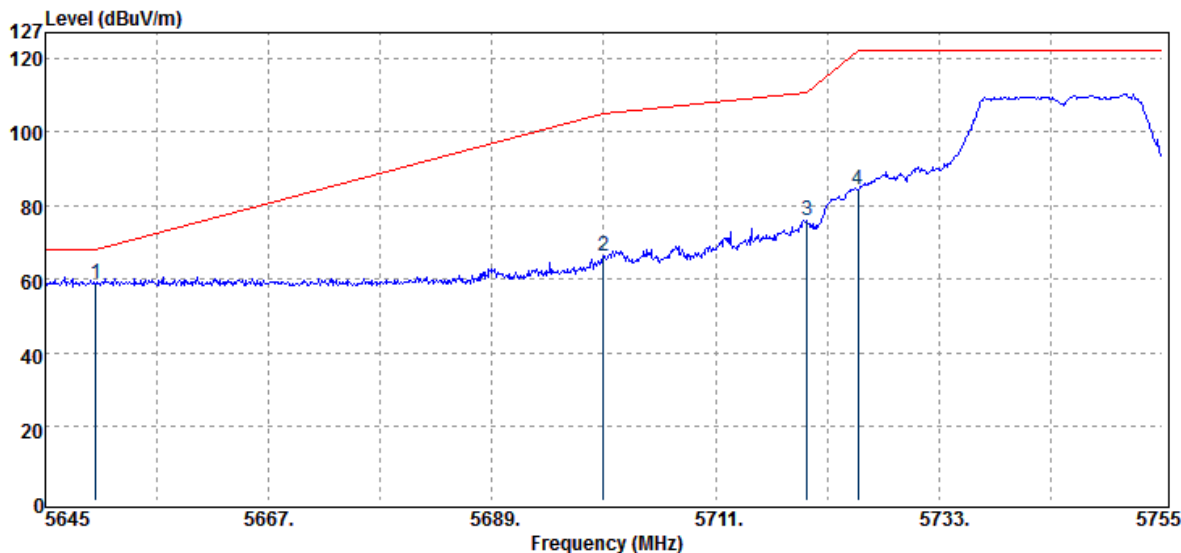
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.00	Peak	57.07	9.44	66.51	68.20	-1.69

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Operation Band	:802.11aB4	Test Date	:2018-09-26
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



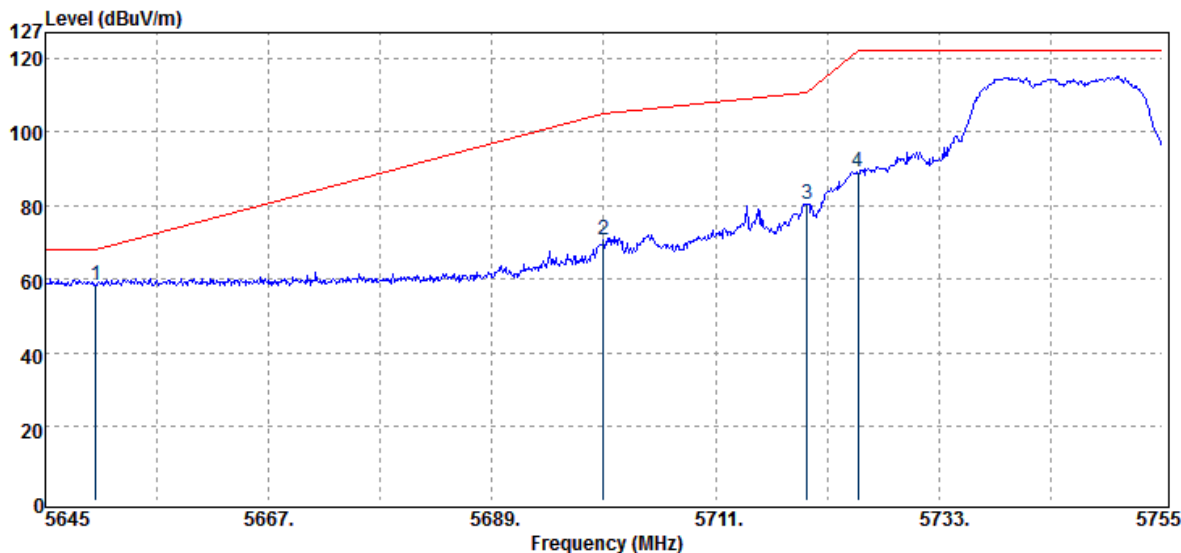
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	Peak	49.83	9.20	59.03	68.23	-9.20
5700.00	Peak	56.96	9.35	66.31	105.23	-38.92
5720.00	Peak	66.64	9.43	76.07	110.83	-34.76
5725.00	Peak	75.03	9.44	84.47	122.23	-37.76

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Operation Band	:802.11aB4	Test Date	:2018-09-26
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



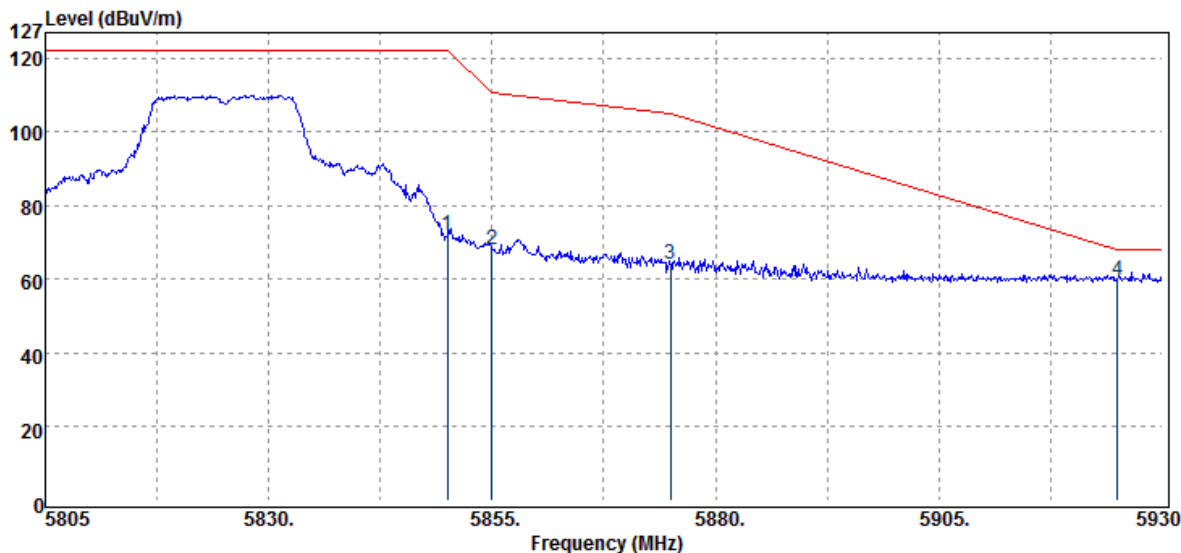
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	Peak	49.39	9.20	58.59	68.23	-9.64
5700.00	Peak	61.29	9.35	70.64	105.23	-34.59
5720.00	Peak	70.87	9.43	80.30	110.83	-30.53
5725.00	Peak	79.66	9.44	89.10	122.23	-33.13

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Operation Band	:802.11aB4	Test Date	:2018-09-26
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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	62.45	9.77	72.22	122.23	-50.01
5855.00	Peak	58.48	9.78	68.26	110.83	-42.57
5875.00	Peak	54.41	9.82	64.23	105.23	-41.00
5925.00	Peak	49.67	9.98	59.65	68.23	-8.58

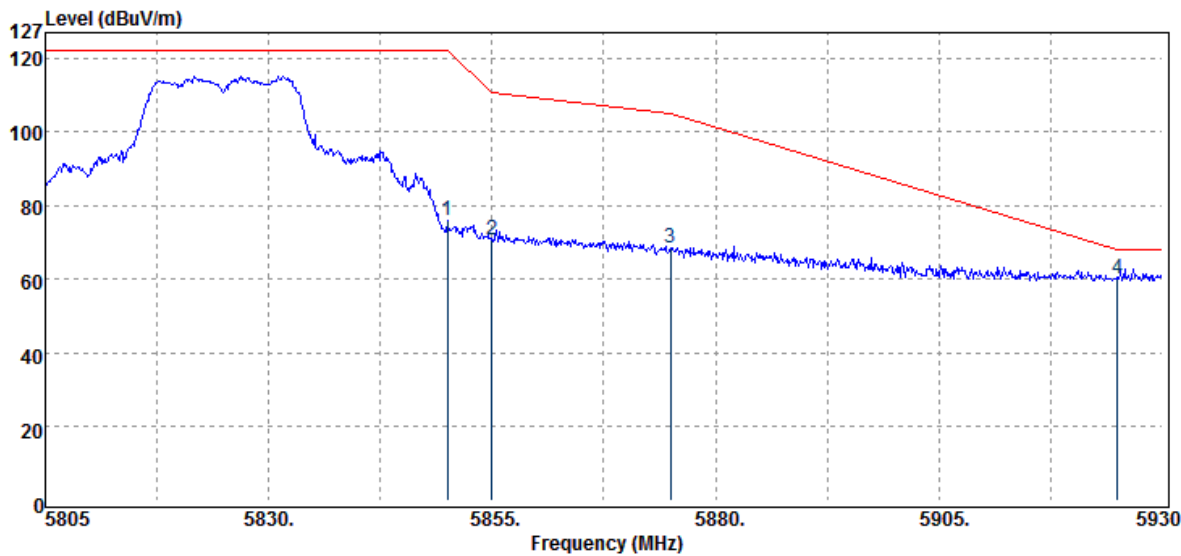
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Operation Band :802.11aB4
 Fundamental Frequency :5825 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-09-26
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5850.00	Peak	66.21	9.77	75.98	122.23	-46.25
5855.00	Peak	61.19	9.78	70.97	110.83	-39.86
5875.00	Peak	58.75	9.82	68.57	105.23	-36.66
5925.00	Peak	50.18	9.98	60.16	68.23	-8.07

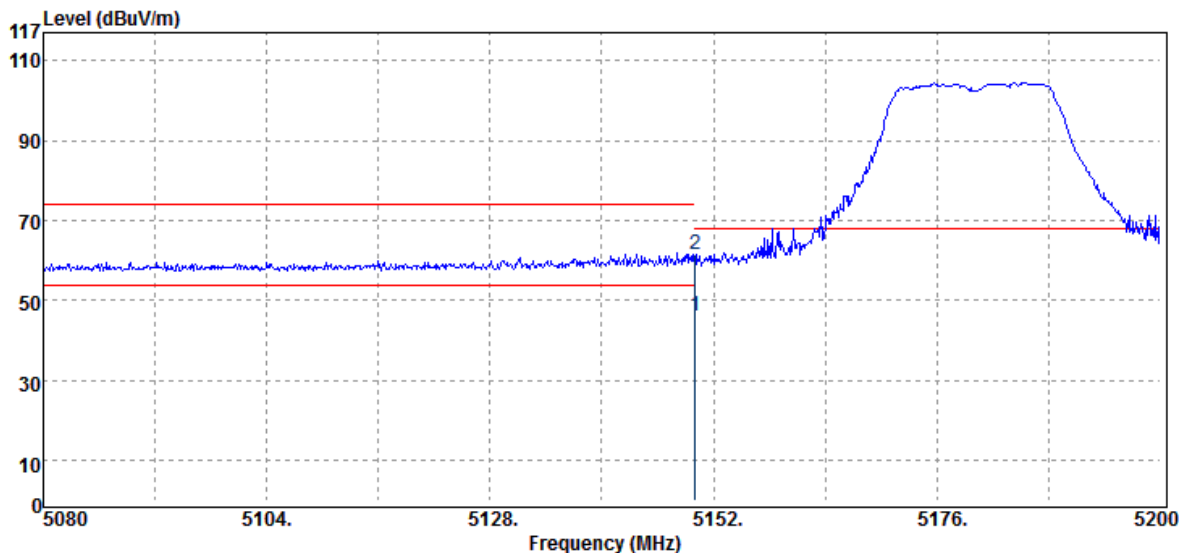
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802.11n20 HT mode

Operation Band	:802.11n20B1	Test Date	:2018-09-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



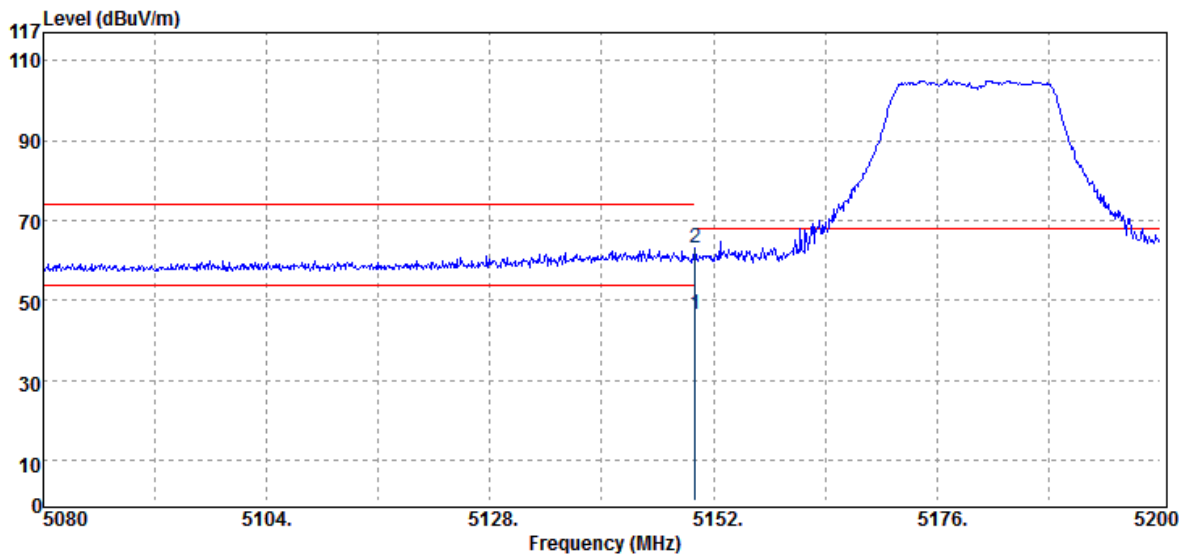
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5150.00	Average	37.95	8.32	46.27	54.00	-7.73
5150.00	Peak	53.31	8.32	61.63	74.00	-12.37

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Operation Band	:802.11n20B1	Test Date	:2018-09-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



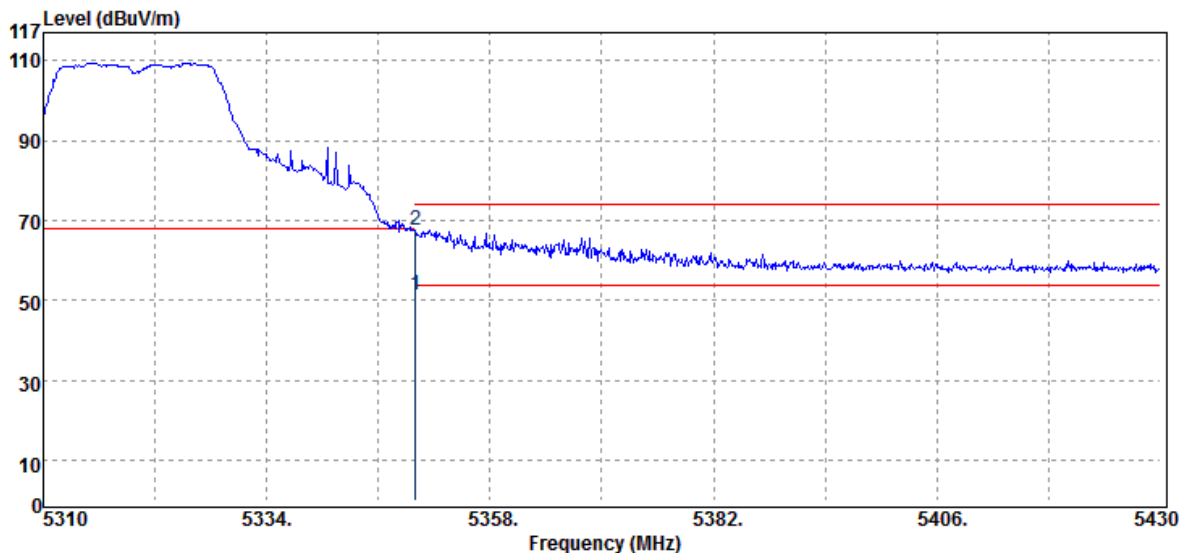
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5150.00	Average	38.04	8.32	46.36	54.00	-7.64
5150.00	Peak	54.84	8.32	63.16	74.00	-10.84

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Operation Band	:802.11n20B2	Test Date	:2018-09-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5350.00	Average	42.64	8.63	51.27	54.00	-2.73
5350.00	Peak	58.80	8.63	67.43	74.00	-6.57

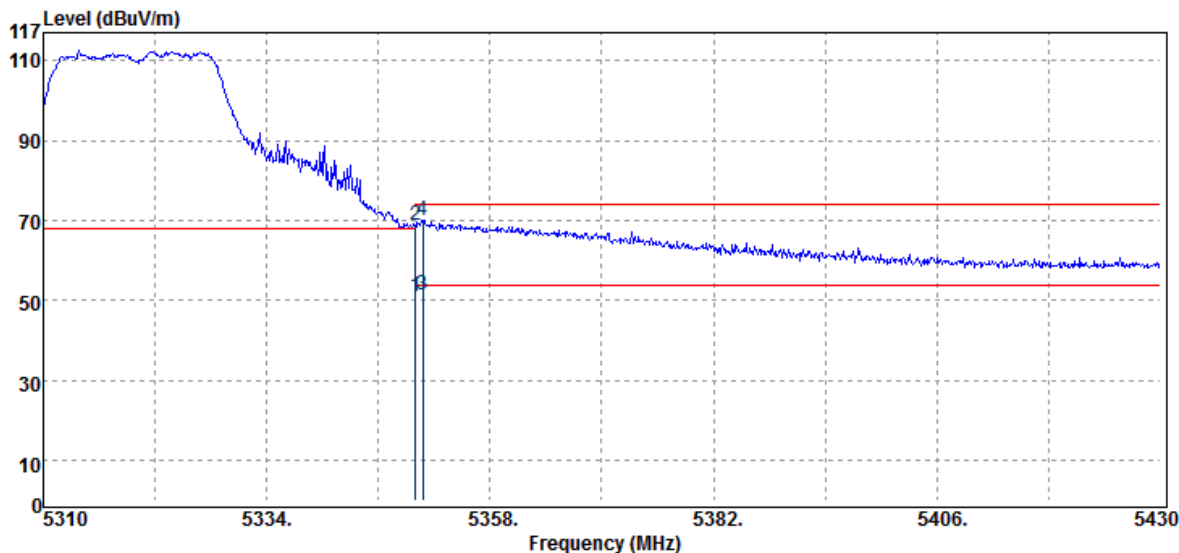
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Operation Band :802.11n20B2
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-09-28
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



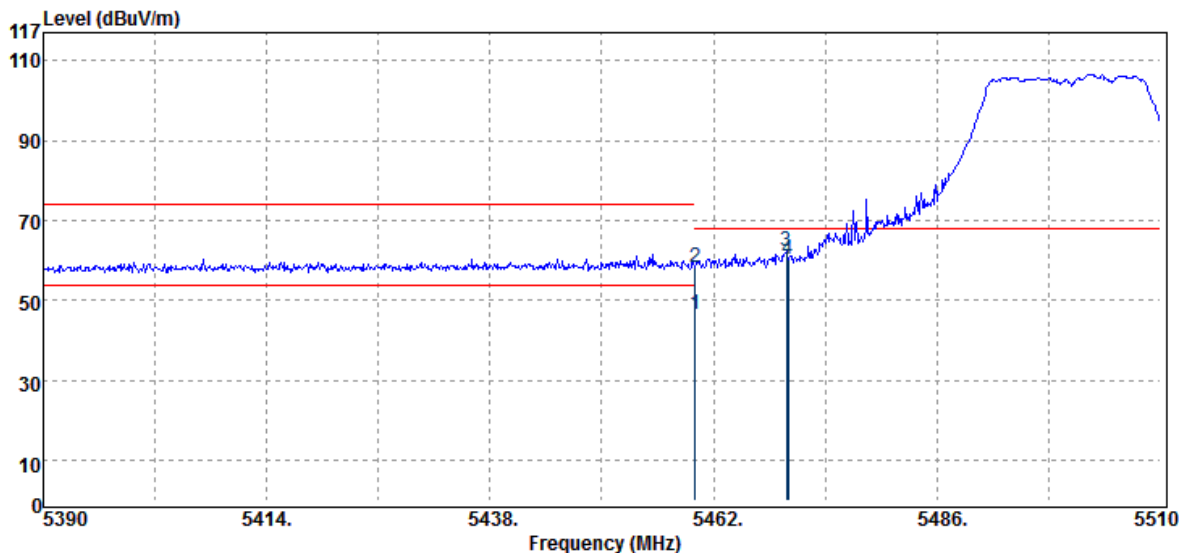
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	42.49	8.63	51.12	54.00	-2.88
5350.00	Peak	60.13	8.63	68.76	74.00	-5.24
5350.80	Average	42.72	8.64	51.36	54.00	-2.64
5350.80	Peak	61.37	8.64	70.01	74.00	-3.99

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Operation Band	:802.11n20B3	Test Date	:2018-09-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



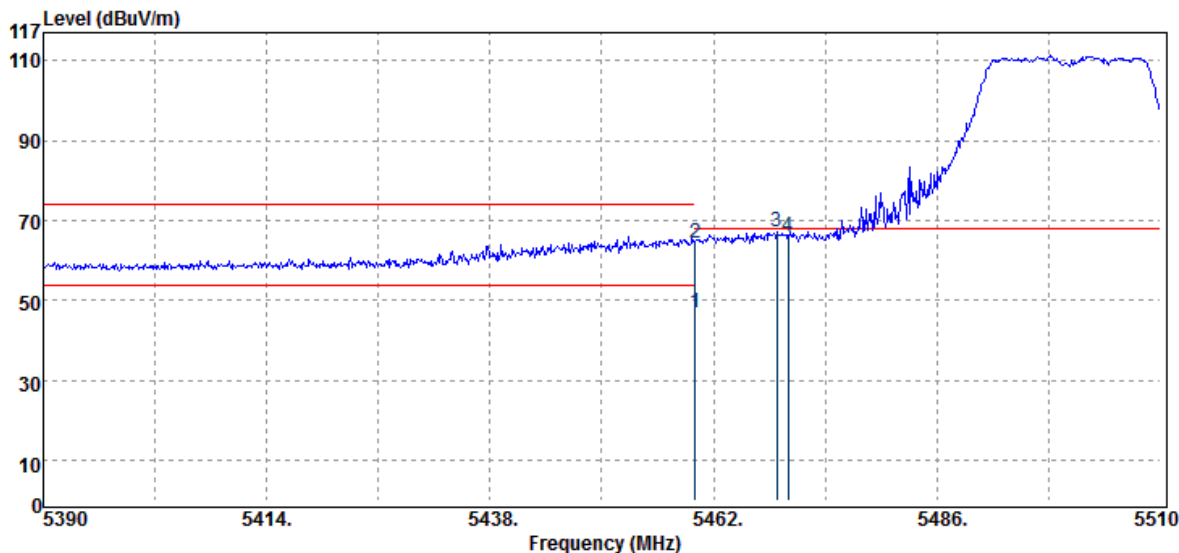
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5460.00	Average	37.94	8.75	46.69	54.00	-7.31
5460.00	Peak	49.35	8.75	58.10	74.00	-15.90
5469.80	Peak	53.44	8.74	62.18	68.20	-6.02
5470.00	Peak	51.55	8.74	60.29	68.20	-7.91

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Operation Band	:802.11n20B3	Test Date	:2018-09-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



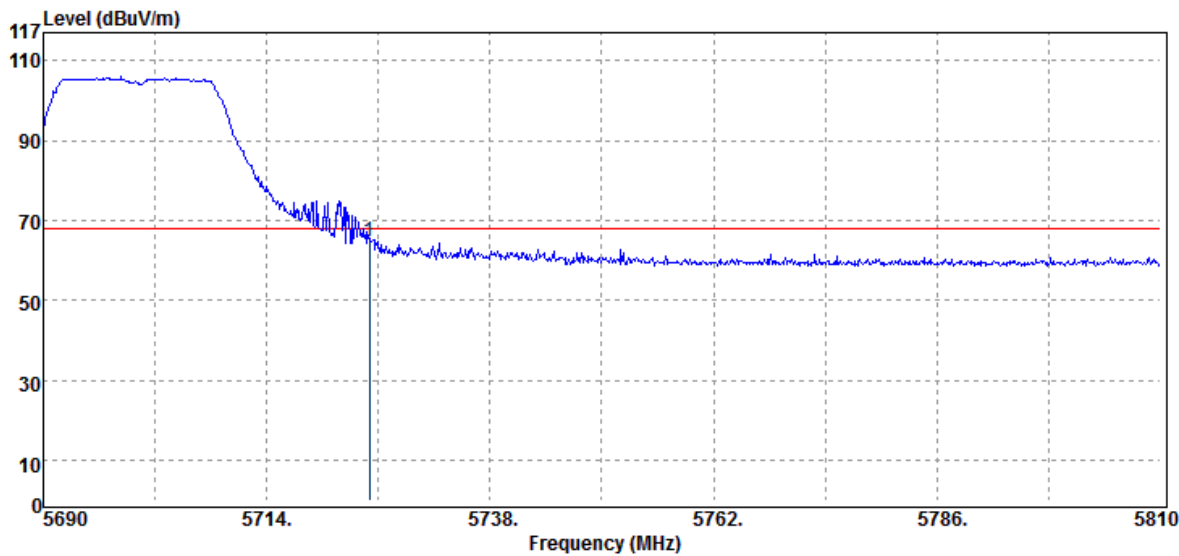
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5460.00	Average	38.36	8.75	47.11	54.00	-6.89
5460.00	Peak	55.76	8.75	64.51	74.00	-9.49
5468.84	Peak	58.42	8.74	67.16	68.20	-1.04
5470.00	Peak	57.28	8.74	66.02	68.20	-2.18

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Operation Band	:802.11n20B3	Test Date	:2018-09-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



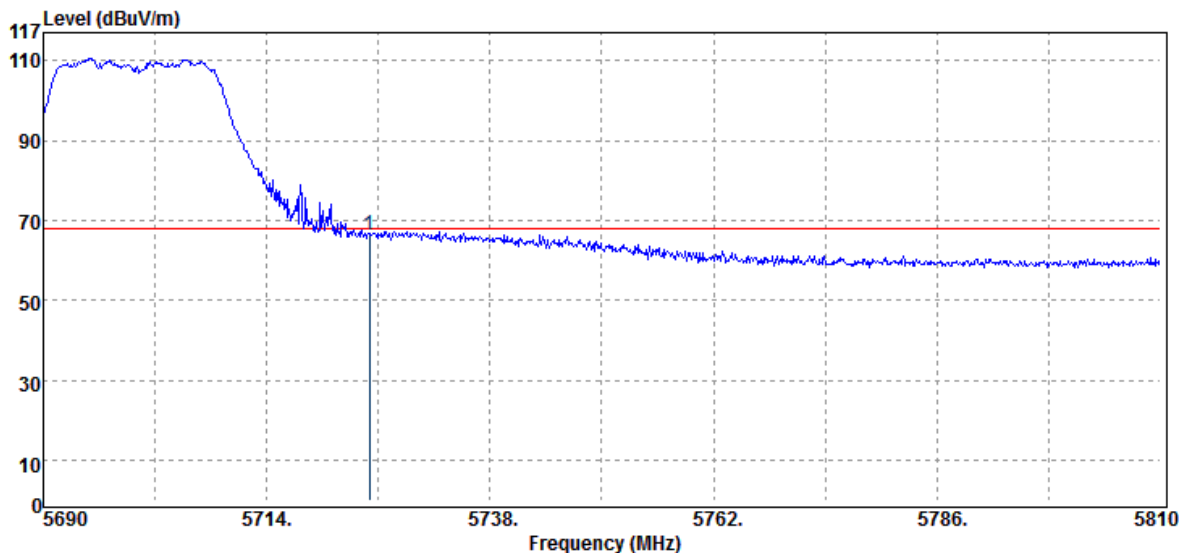
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.00	Peak	55.37	9.44	64.81	68.20	-3.39

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Operation Band	:802.11n20B3	Test Date	:2018-09-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



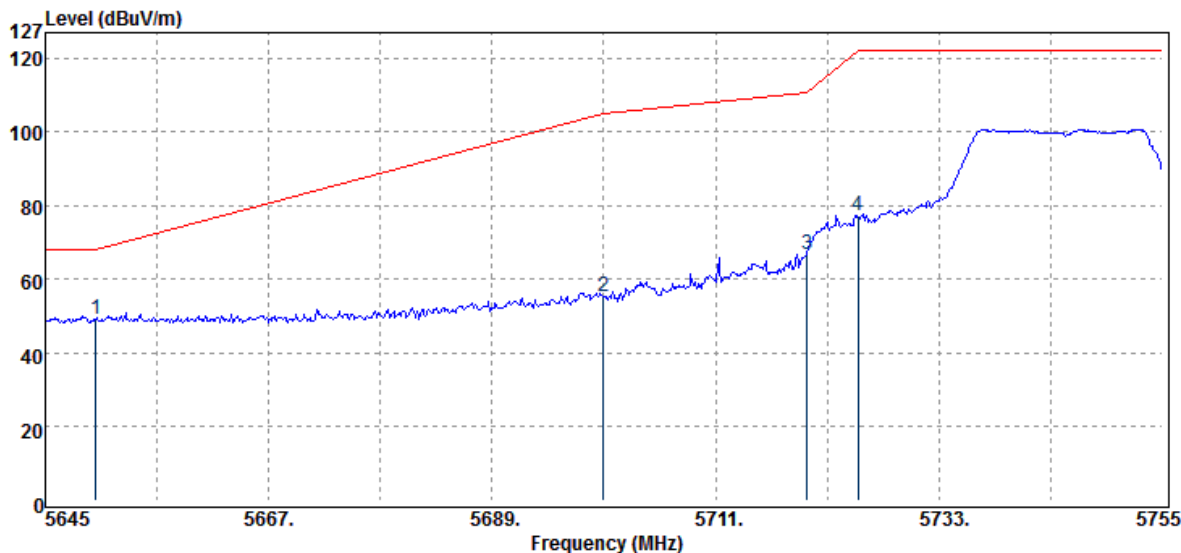
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	56.96	9.44	66.40	68.20	-1.80

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Operation Band	:802.11n20B4	Test Date	:2018-09-28
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



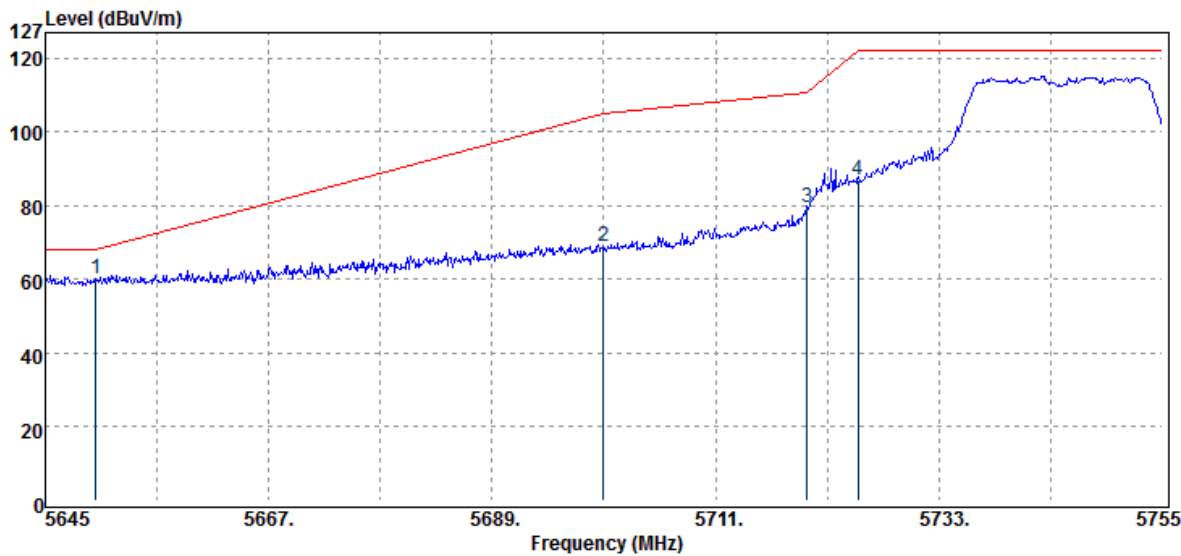
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5650.00	Peak	40.19	9.20	49.39	68.23	-18.84
5700.00	Peak	45.89	9.35	55.24	105.23	-49.99
5720.00	Peak	57.53	9.43	66.96	110.83	-43.87
5725.00	Peak	67.93	9.44	77.37	122.23	-44.86

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Operation Band	:802.11n20B4	Test Date	:2018-09-28
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



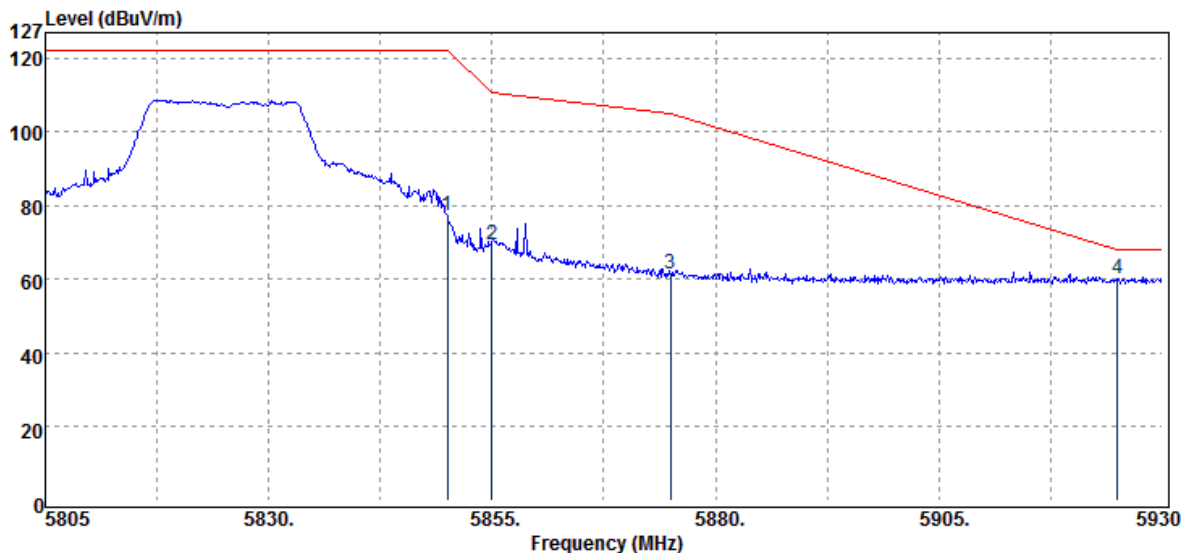
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	Peak	51.12	9.20	60.32	68.23	-7.91
5700.00	Peak	59.44	9.35	68.79	105.23	-36.44
5720.00	Peak	69.96	9.43	79.39	110.83	-31.44
5725.00	Peak	77.41	9.44	86.85	122.23	-35.38

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Operation Band	:802.11n20B4	Test Date	:2018-09-28
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



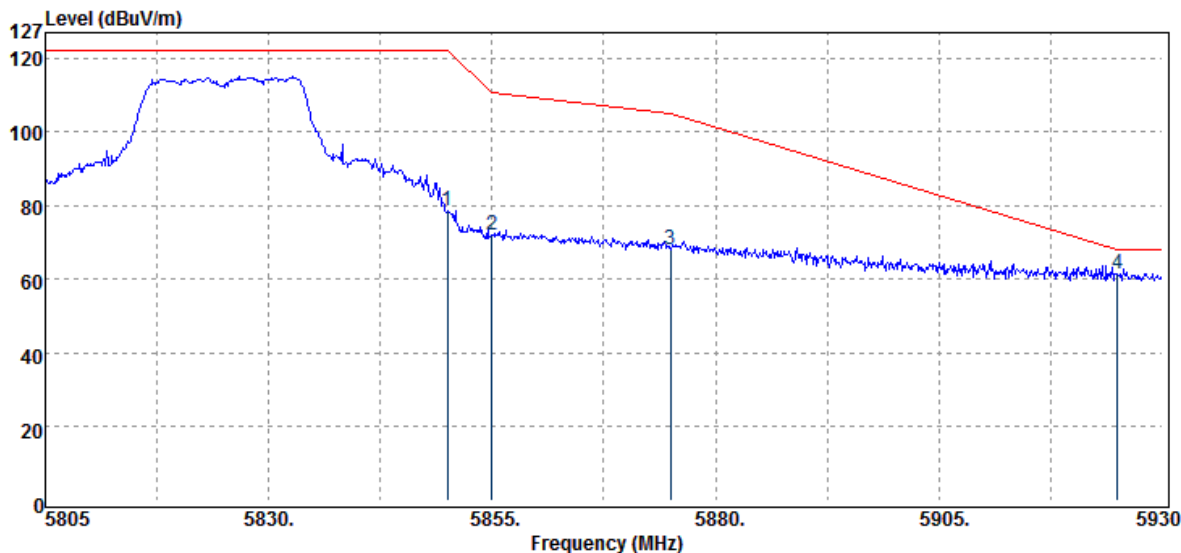
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	67.77	9.77	77.54	122.23	-44.69
5855.00	Peak	59.76	9.78	69.54	110.83	-41.29
5875.00	Peak	51.90	9.82	61.72	105.23	-43.51
5925.00	Peak	50.43	9.98	60.41	68.23	-7.82

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Operation Band	:802.11n20B4	Test Date	:2018-10-05
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	69.03	9.77	78.80	122.23	-43.43
5855.00	Peak	62.34	9.78	72.12	110.83	-38.71
5875.00	Peak	58.48	9.82	68.30	105.23	-36.93
5925.00	Peak	51.34	9.98	61.32	68.23	-6.91

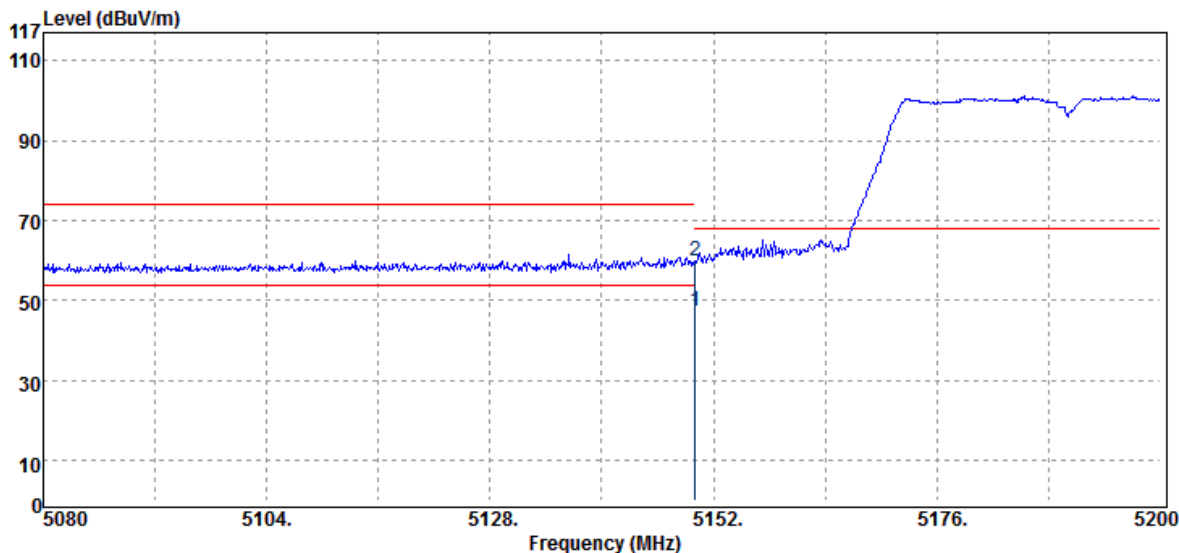
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802.11n40 HT mode

Operation Band	:802.11n40B1	Test Date	:2018-09-28
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



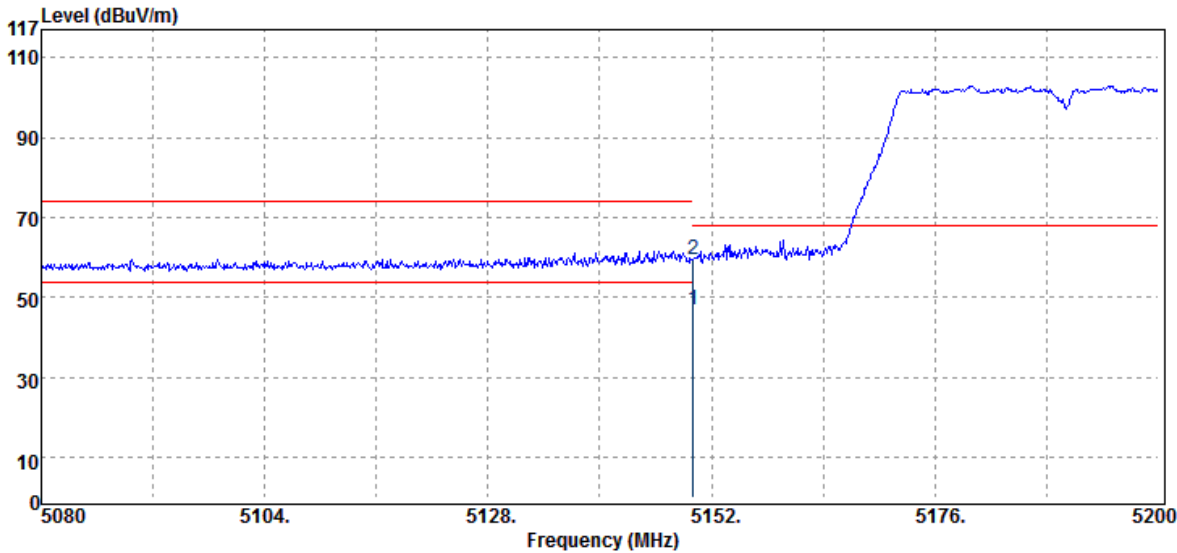
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	38.91	8.32	47.23	54.00	-6.77
5150.00	Peak	51.73	8.32	60.05	74.00	-13.95

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Operation Band	:802.11n40B1	Test Date	:2018-09-28
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5150.00	Average	38.76	8.32	47.08	54.00	-6.92
5150.00	Peak	51.37	8.32	59.69	74.00	-14.31

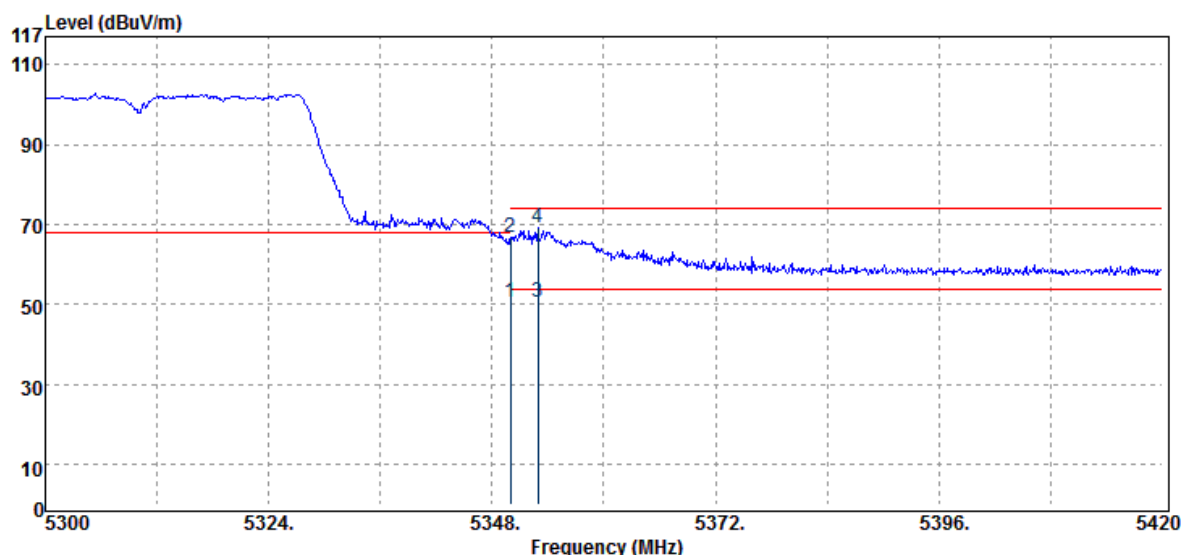
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Operation Band :802.11n40B2
 Fundamental Frequency :5310 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-09-28
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



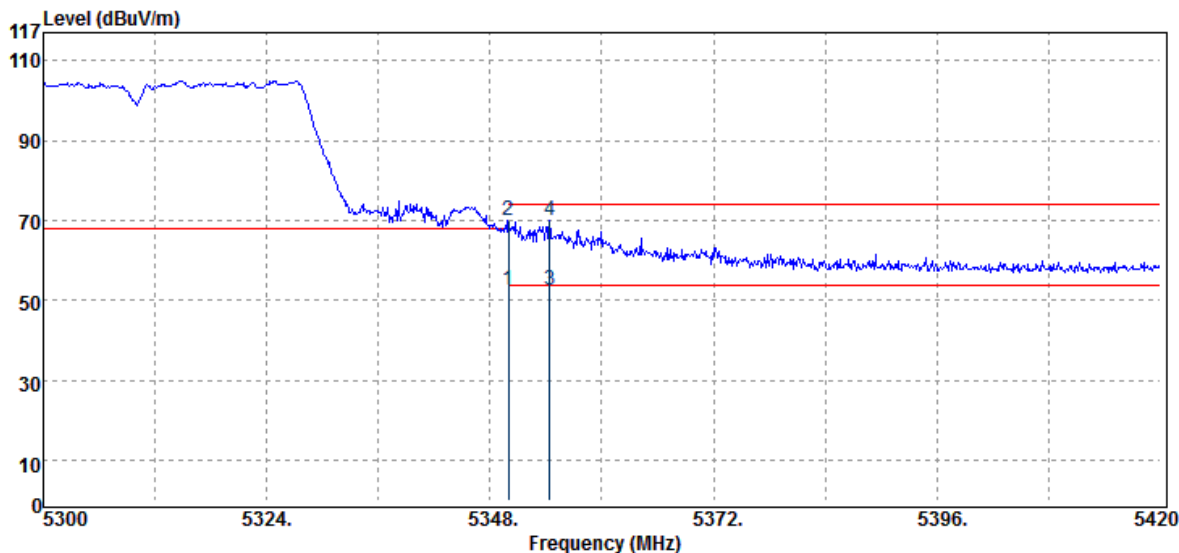
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5350.00	Average	41.78	8.63	50.41	54.00	-3.59
5350.00	Peak	58.10	8.63	66.73	74.00	-7.27
5352.92	Average	42.14	8.65	50.79	54.00	-3.21
5352.92	Peak	60.55	8.65	69.20	74.00	-4.80

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Operation Band	:802.11n40B2	Test Date	:2018-09-28
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



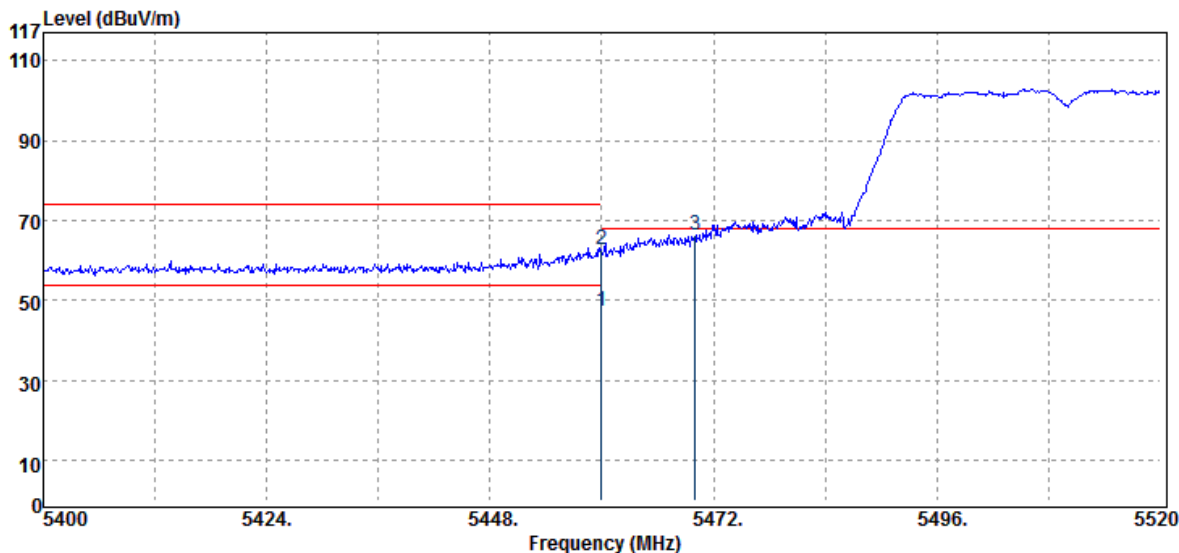
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5350.00	Average	43.93	8.63	52.56	54.00	-1.44
5350.00	Peak	61.60	8.63	70.23	74.00	-3.77
5354.36	Average	44.05	8.65	52.70	54.00	-1.30
5354.36	Peak	61.21	8.65	69.86	74.00	-4.14

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Operation Band	:802.11n40B3	Test Date	:2018-09-28
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



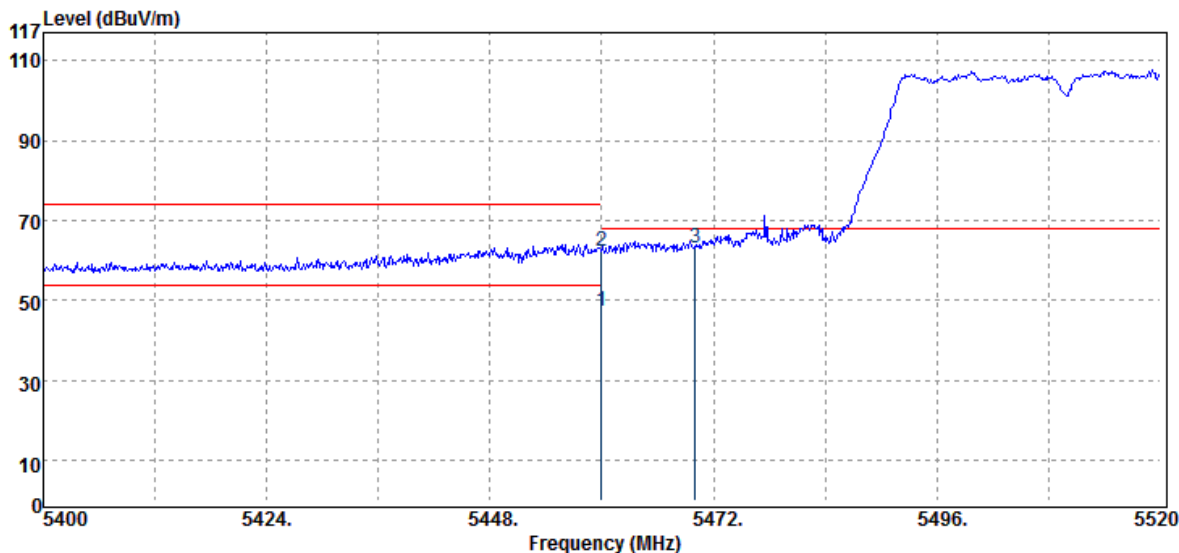
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5460.00	Average	38.60	8.75	47.35	54.00	-6.65
5460.00	Peak	53.85	8.75	62.60	74.00	-11.40
5470.00	Peak	57.76	8.74	66.50	68.20	-1.70

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Operation Band	:802.11n40B3	Test Date	:2018-09-28
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



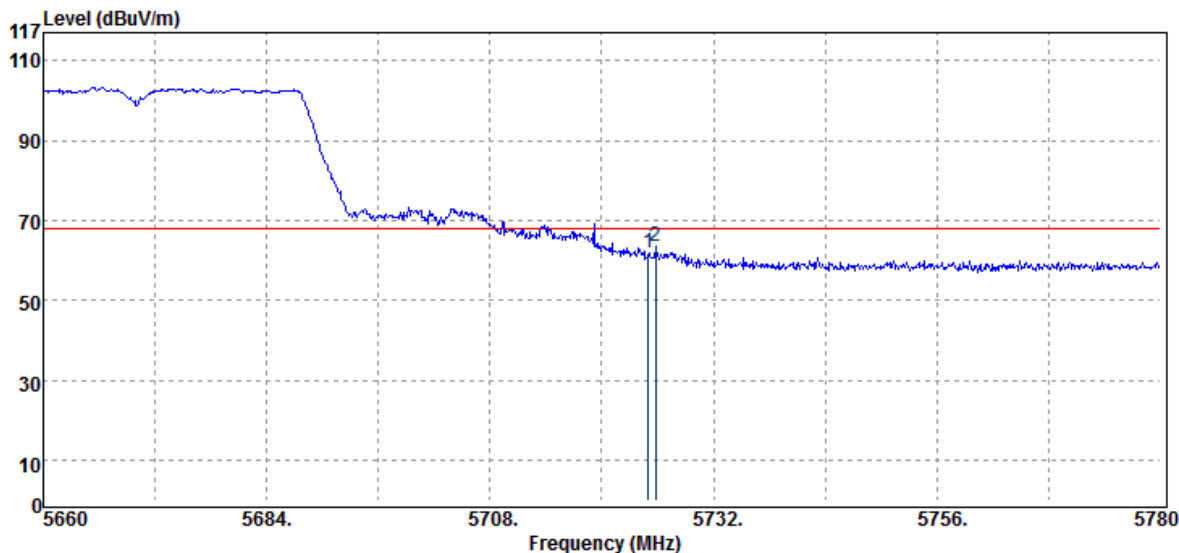
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	38.58	8.75	47.33	54.00	-6.67
5460.00	Peak	53.75	8.75	62.50	74.00	-11.50
5470.00	Peak	54.54	8.74	63.28	68.20	-4.92

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Operation Band	:802.11n40B3	Test Date	:2018-09-28
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



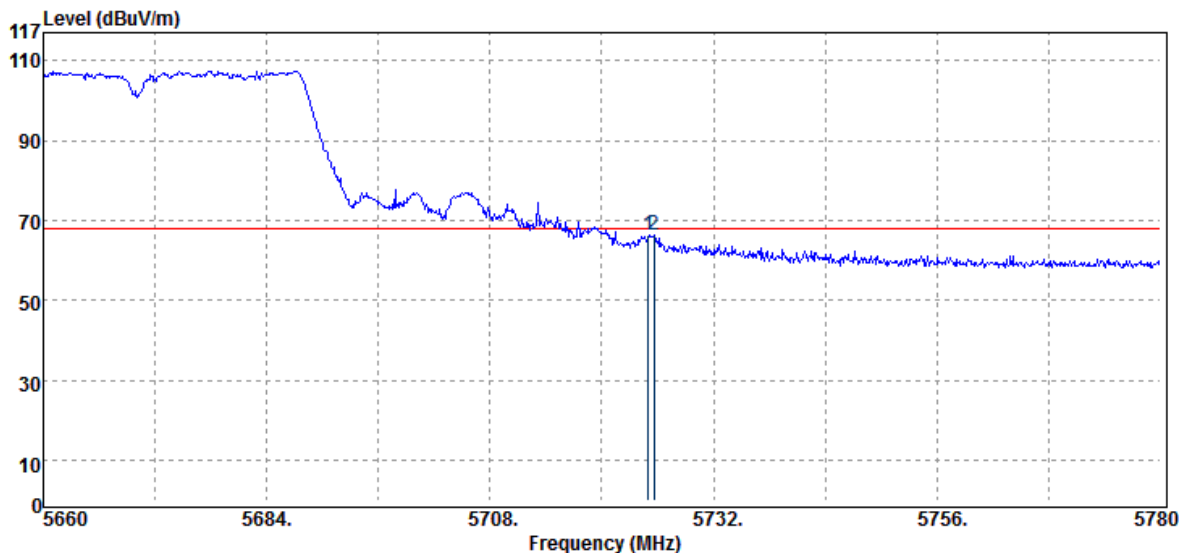
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5725.00	Peak	52.36	9.44	61.80	68.20	-6.40
5725.76	Peak	53.92	9.44	63.36	68.20	-4.84

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Operation Band	:802.11n40B3	Test Date	:2018-09-28
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



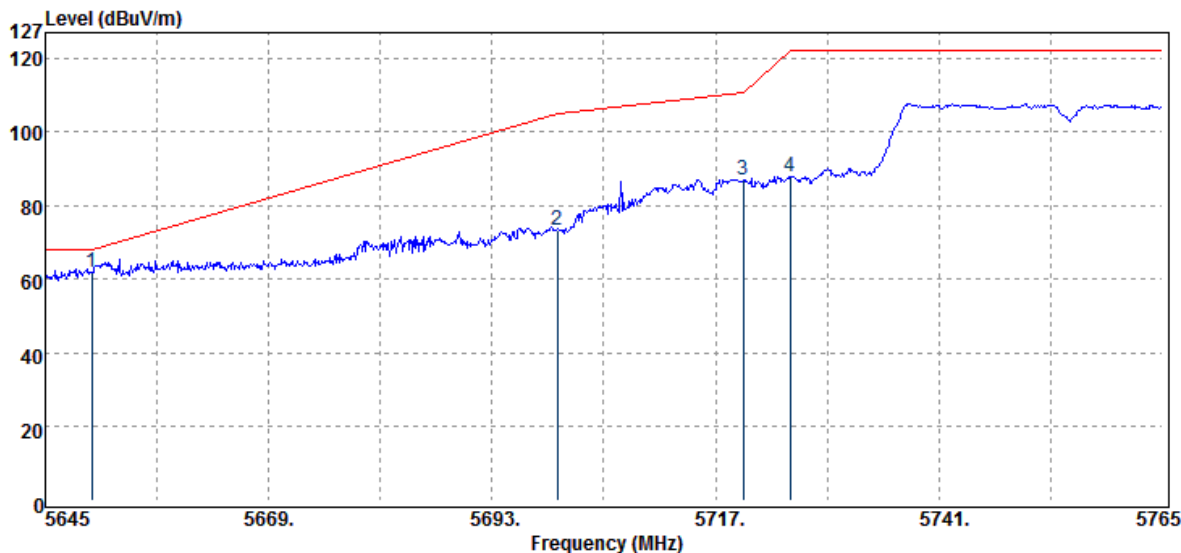
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	56.83	9.44	66.27	68.20	-1.93
5725.64	Peak	56.94	9.44	66.38	68.20	-1.82

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Operation Band	:802.11n40B4	Test Date	:2018-09-28
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



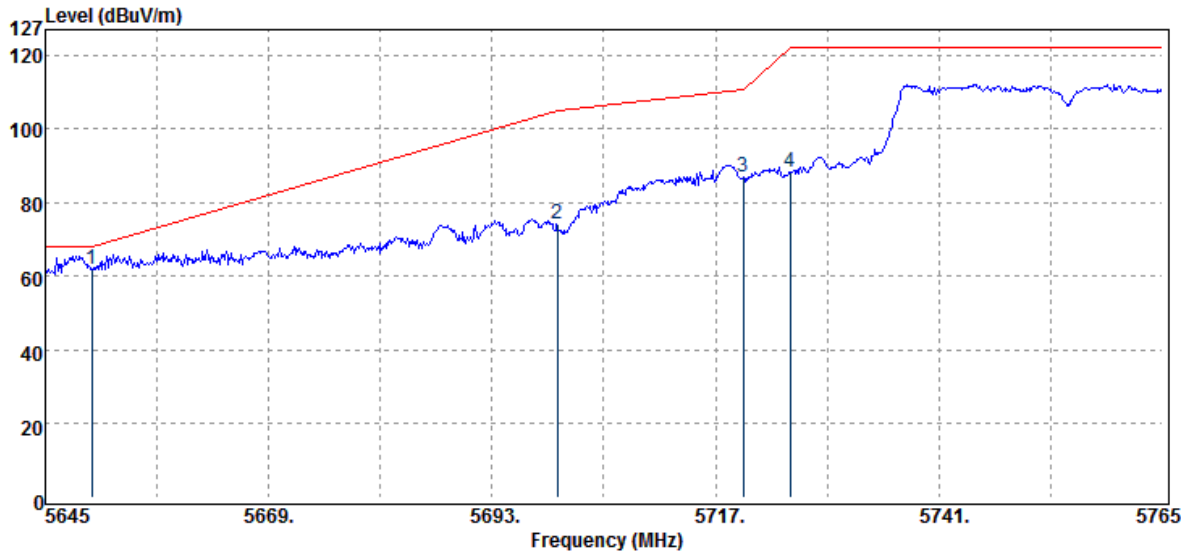
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	Peak	52.58	9.20	61.78	68.23	-6.45
5700.00	Peak	64.05	9.35	73.40	105.23	-31.83
5720.00	Peak	77.70	9.43	87.13	110.83	-23.70
5725.00	Peak	78.41	9.44	87.85	122.23	-34.38

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Operation Band	:802.11n40B4	Test Date	:2018-09-28
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



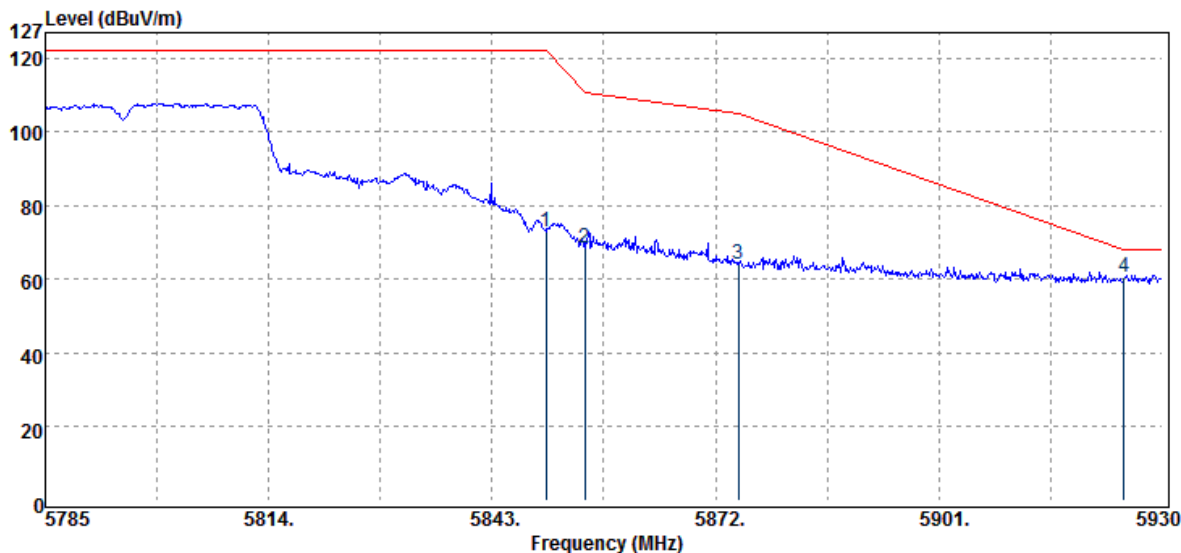
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	Peak	52.71	9.20	61.91	68.23	-6.32
5700.00	Peak	65.00	9.35	74.35	105.23	-30.88
5720.00	Peak	77.76	9.43	87.19	110.83	-23.64
5725.00	Peak	78.74	9.44	88.18	122.23	-34.05

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Operation Band	:802.11n40B4	Test Date	:2018-09-28
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



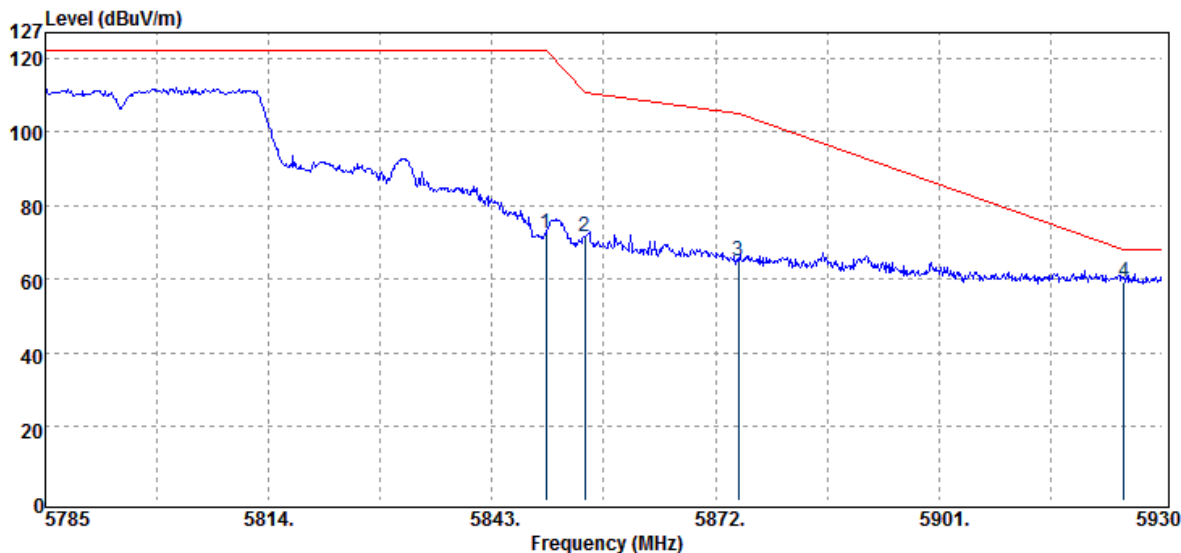
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	63.29	9.77	73.06	122.23	-49.17
5855.00	Peak	58.66	9.78	68.44	110.83	-42.39
5875.00	Peak	54.43	9.82	64.25	105.23	-40.98
5925.00	Peak	50.51	9.98	60.49	68.23	-7.74

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Operation Band	:802.11n40B4	Test Date	:2018-10-05
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5850.00	Peak	62.62	9.77	72.39	122.23	-49.84
5855.00	Peak	61.79	9.78	71.57	110.83	-39.26
5875.00	Peak	55.16	9.82	64.98	105.23	-40.25
5925.00	Peak	49.27	9.98	59.25	68.23	-8.98

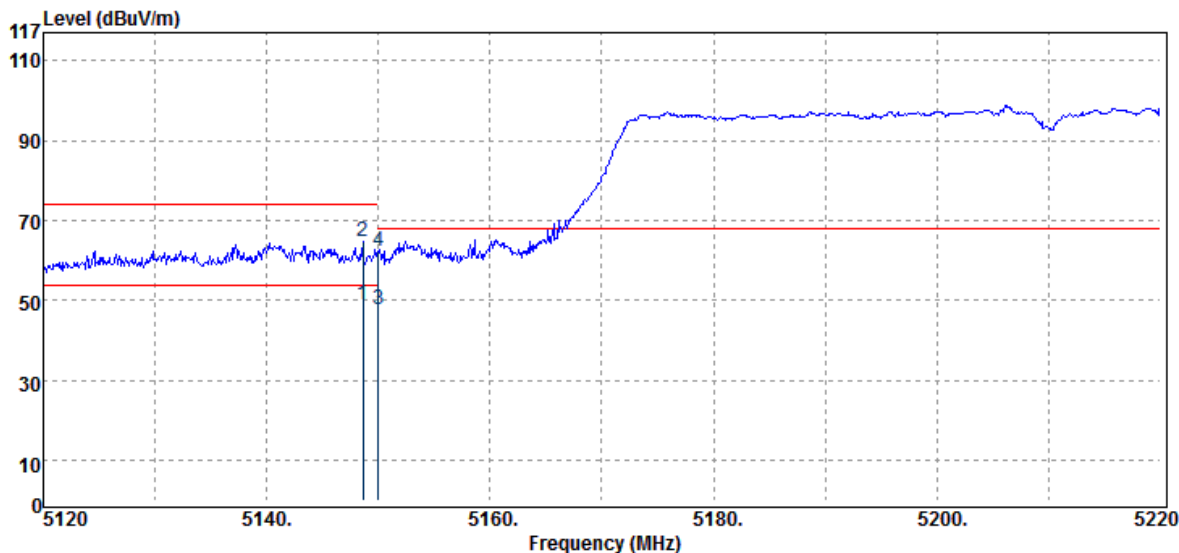
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802.11ac80 VHT mode

Operation Band	:802.11ac80B1	Test Date	:2018-09-28
Fundamental Frequency	:5210 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5148.60	Average	40.81	8.30	49.11	54.00	-4.89
5148.60	Peak	56.45	8.30	64.75	74.00	-9.25
5150.00	Average	39.52	8.32	47.84	54.00	-6.16
5150.00	Peak	53.90	8.32	62.22	74.00	-11.78

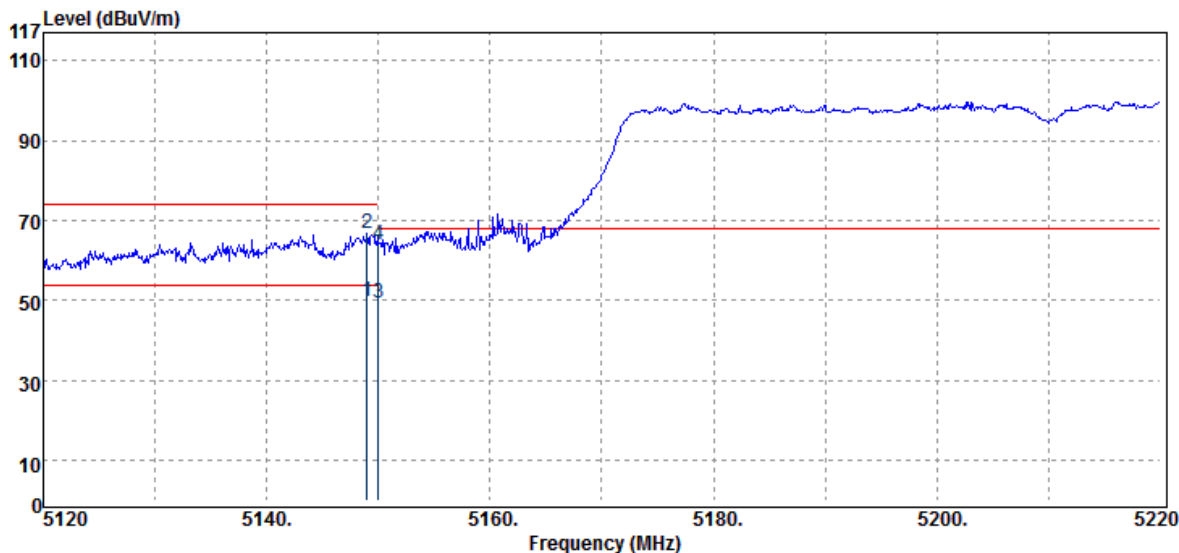
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Operation Band :802.11ac80B1
 Fundamental Frequency :5210 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E2 Plane

Test Date :2018-09-28
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5149.00	Average	41.43	8.30	49.73	54.00	-4.27
5149.00	Peak	58.53	8.30	66.83	74.00	-7.17
5150.00	Average	41.01	8.32	49.33	54.00	-4.67
5150.00	Peak	55.71	8.32	64.03	74.00	-9.97

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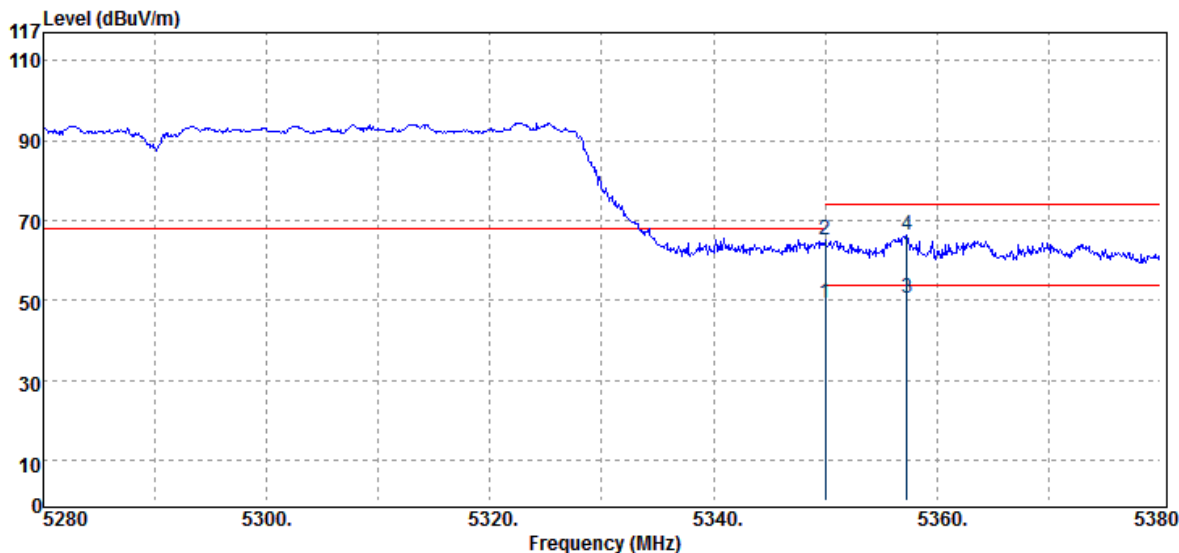
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Operation Band	:802.11ac80B2	Test Date	:2018-09-28
Fundamental Frequency	:5290 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	40.91	8.63	49.54	54.00	-4.46
5350.00	Peak	56.42	8.63	65.05	74.00	-8.95
5357.30	Average	42.05	8.65	50.70	54.00	-3.30
5357.30	Peak	57.72	8.65	66.37	74.00	-7.63

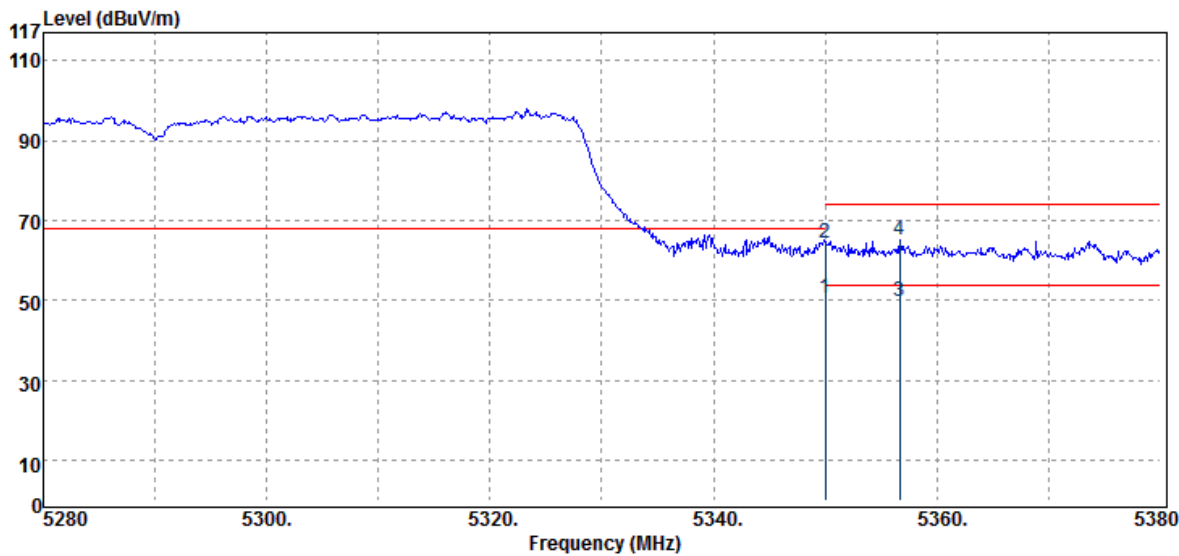
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Operation Band :802.11ac80B2
 Fundamental Frequency :5290 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E2 Plane

Test Date :2018-09-28
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	41.86	8.63	50.49	54.00	-3.51
5350.00	Peak	55.82	8.63	64.45	74.00	-9.55
5356.70	Average	41.15	8.65	49.80	54.00	-4.20
5356.70	Peak	56.56	8.65	65.21	74.00	-8.79

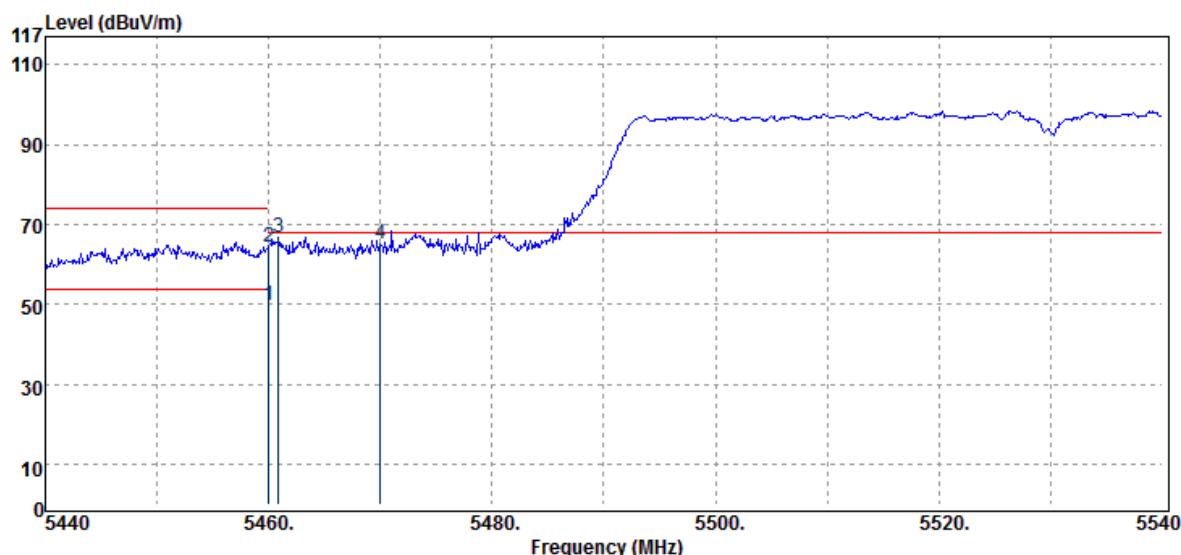
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Operation Band :802.11ac80B3
 Fundamental Frequency :5530 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E2 Plane

Test Date :2018-09-28
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Wei
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5460.00	Average	41.15	8.75	49.90	54.00	-4.10
5460.00	Peak	55.69	8.75	64.44	74.00	-9.56
5460.90	Peak	58.21	8.75	66.96	68.20	-1.24
5470.00	Peak	56.53	8.74	65.27	68.20	-2.93

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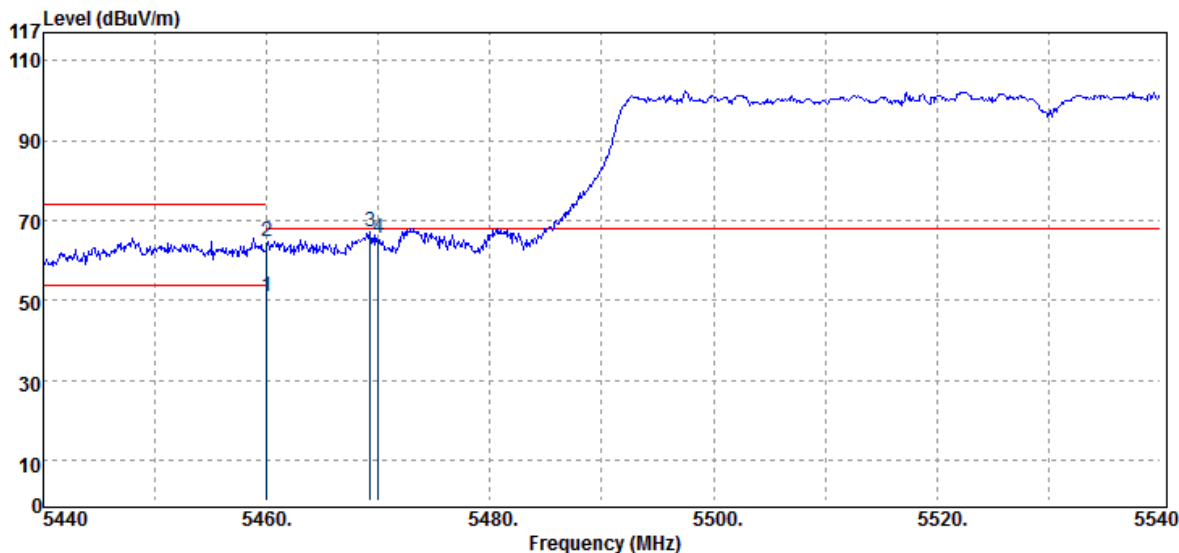
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Operation Band	:802.11ac80B3	Test Date	:2018-09-28
Fundamental Frequency	:5530 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



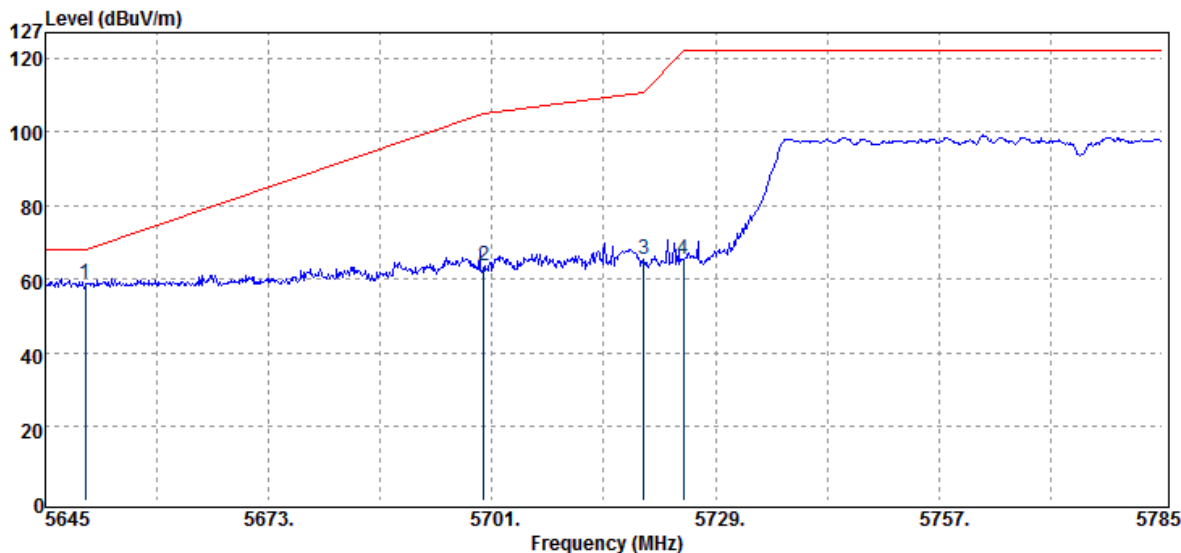
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5460.00	Average	42.13	8.75	50.88	54.00	-3.12
5460.00	Peak	56.01	8.75	64.76	74.00	-9.24
5469.30	Peak	58.28	8.74	67.02	68.20	-1.18
5470.00	Peak	56.74	8.74	65.48	68.20	-2.72

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Operation Band	:802.11ac80B4	Test Date	:2018-09-28
Fundamental Frequency	:5775 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



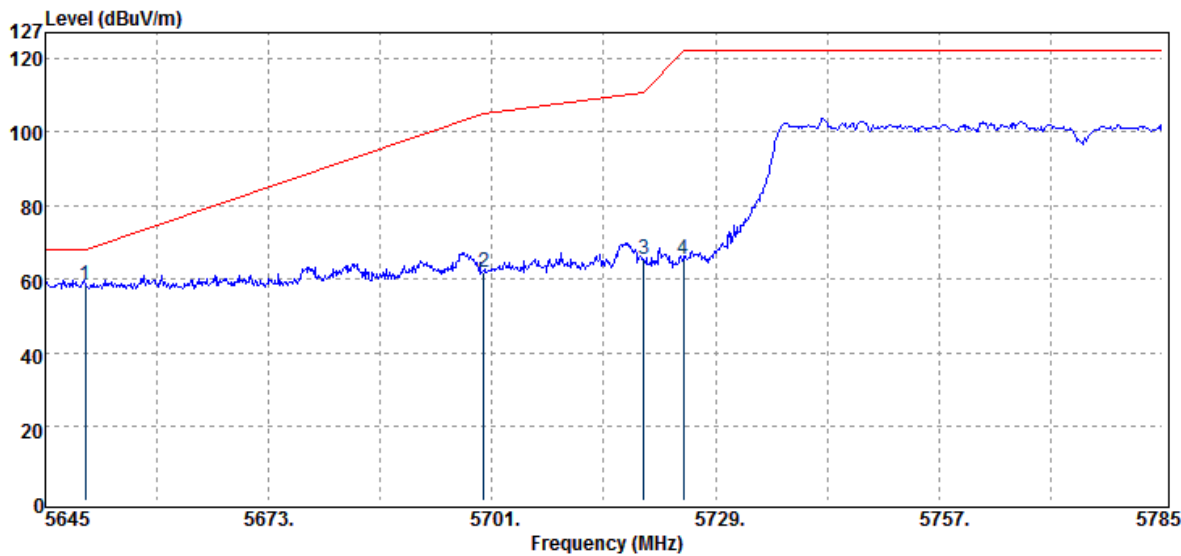
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	Peak	49.56	9.20	58.76	68.23	-9.47
5700.00	Peak	54.21	9.35	63.56	105.23	-41.67
5720.00	Peak	56.13	9.43	65.56	110.83	-45.27
5725.00	Peak	55.91	9.44	65.35	122.23	-56.88

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Operation Band	:802.11ac80B4	Test Date	:2018-09-28
Fundamental Frequency	:5775 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



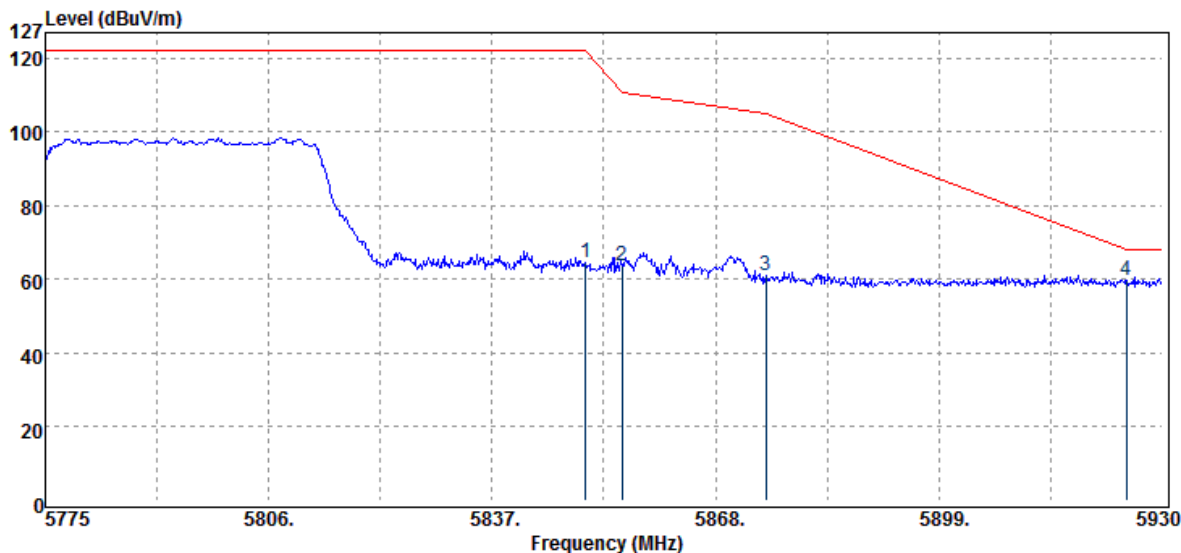
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	Peak	49.09	9.20	58.29	68.23	-9.94
5700.00	Peak	52.75	9.35	62.10	105.23	-43.13
5720.00	Peak	55.84	9.43	65.27	110.83	-45.56
5725.00	Peak	55.89	9.44	65.33	122.23	-56.90

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Operation Band	:802.11ac80B4	Test Date	:2018-09-28
Fundamental Frequency	:5775 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



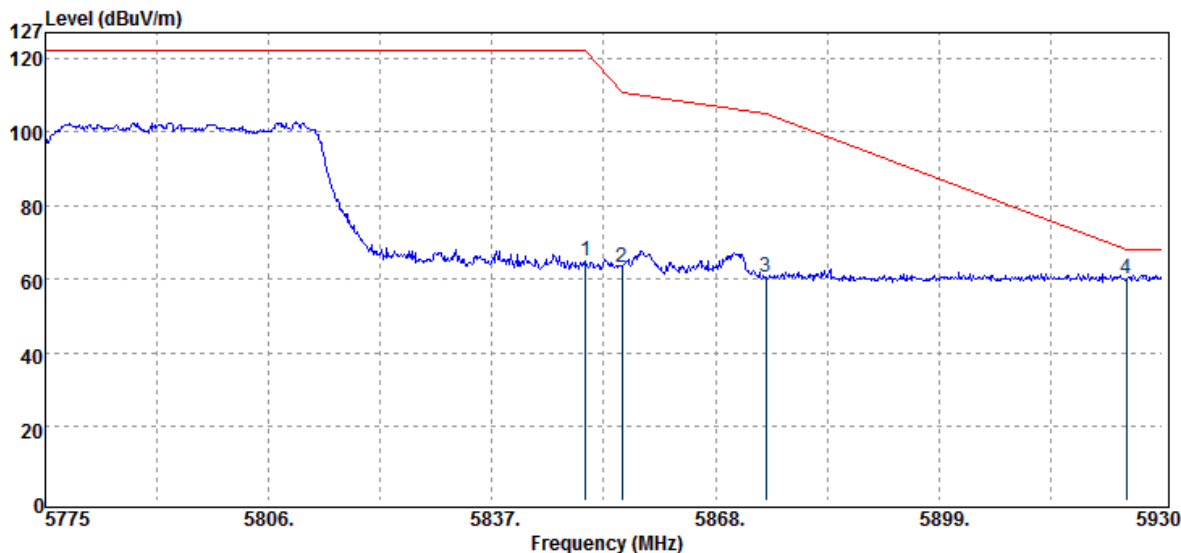
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5850.00	Peak	54.98	9.77	64.75	122.23	-57.48
5855.00	Peak	54.05	9.78	63.83	110.83	-47.00
5875.00	Peak	51.11	9.82	60.93	105.23	-44.30
5925.00	Peak	49.82	9.98	59.80	68.23	-8.43

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Operation Band	:802.11ac80B4	Test Date	:2018-09-28
Fundamental Frequency	:5775 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	55.39	9.77	65.16	122.23	-57.07
5855.00	Peak	53.50	9.78	63.28	110.83	-47.55
5875.00	Peak	50.65	9.82	60.47	105.23	-44.76
5925.00	Peak	50.32	9.98	60.30	68.23	-7.93

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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

12.2 Result

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

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13 FREQUENCY STABILITY

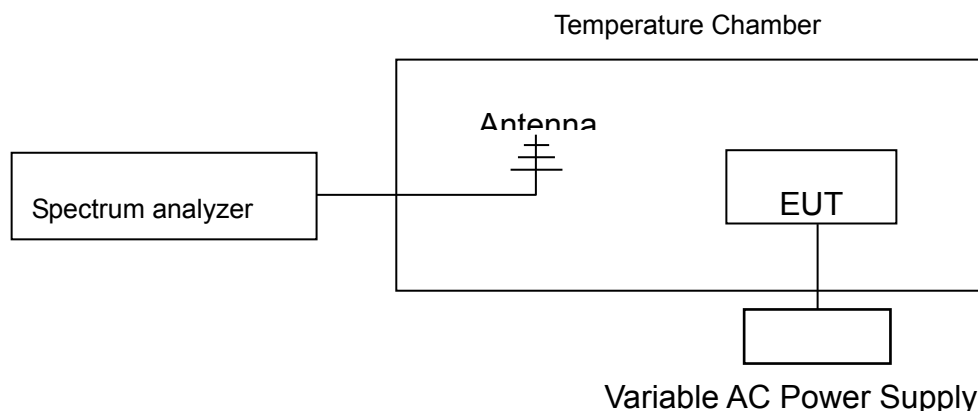
13.1 Standard Applicable

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

13.2 Measurement Procedure

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

13.3 Test SET-UP



13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/03/2018	05/02/2019
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2018	01/01/2019
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2018	01/01/2019
Coaxial Cables	N/A	WK CE Cable	N/A	01/02/2018	01/01/2019
Power Meter	Anritsu	ML2496A	1804001	02/01/2018	01/31/2019
Power Sensor	Anritsu	MA2411B	1726104	02/01/2018	01/31/2019
Power Sensor	Anritsu	MA2411B	1726107	02/01/2018	01/31/2019

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13.5 Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2018.09.25
Temperature	:23 °C	Test By	Tom
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.283V	36	5180	5,179.99011	0.00000191
		44	5220	5,219.99256	0.00000143
		48	5240	5,239.97128	0.00000548
		52	5260	5,260.02424	-0.00000461
		60	5300	5,299.98334	0.00000314
		64	5320	5,320.00588	-0.00000110
		100	5500	5,499.99733	0.00000049
		116	5580	5,579.97505	0.00000447
		140	5700	5,699.97888	0.00000371
		149	5745	5,744.98152	0.00000322
		157	5785	5,784.98750	0.00000216
		165	5825	5,824.99326	0.00000116
	10.1V	36	5180	5,179.97717	0.00000441
		44	5220	5,219.98090	0.00000366
		48	5240	5,239.98000	0.00000382
		52	5260	5,260.00507	-0.00000096
		60	5300	5,299.98998	0.00000189
		64	5320	5,319.98825	0.00000221
		100	5500	5,500.00149	-0.00000027
		116	5580	5,579.99929	0.00000013
		140	5700	5,700.00424	-0.00000074
		149	5745	5,744.96969	0.00000528
		157	5785	5,784.98909	0.00000189
		165	5825	5,824.98775	0.00000210

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25 °C	11.55V	36	5180	5,179.97656	0.00000453
		44	5220	5,219.99391	0.00000117
		48	5240	5,239.98359	0.00000313
		52	5260	5,260.01341	-0.00000255
		60	5300	5,299.98365	0.00000309
		64	5320	5,319.97515	0.00000467
		100	5500	5,499.98448	0.00000282
		116	5580	5,579.98587	0.00000253
		140	5700	5,699.99483	0.00000091
		149	5745	5,744.99399	0.00000105
		157	5785	5,784.99706	0.00000051
		165	5825	5,824.97465	0.00000435
40 °C	13.283V	36	5180	5,180.01681	-0.00000324
		44	5220	5,219.98908	0.00000209
		48	5240	5,239.98273	0.00000330
		52	5260	5,260.00441	-0.00000084
		60	5300	5,299.99633	0.00000069
		64	5320	5,319.99346	0.00000123
		100	5500	5,499.96843	0.00000574
		116	5580	5,579.98648	0.00000242
		140	5700	5,699.98431	0.00000275
		149	5745	5,744.99805	0.00000034
		157	5785	5,784.97885	0.00000366
		165	5825	5,825.00043	-0.00000007
	10.1V	36	5180	5,179.98476	0.00000294
		44	5220	5,219.97156	0.00000545
		48	5240	5,240.01199	-0.00000229
		52	5260	5,259.99461	0.00000103
		60	5300	5,300.01065	-0.00000201
		64	5320	5,320.01303	-0.00000245
		100	5500	5,500.01538	-0.00000280
		116	5580	5,579.99541	0.00000082
		140	5700	5,699.99773	0.00000040
		149	5745	5,744.98639	0.00000237
		157	5785	5,784.98954	0.00000181
		165	5825	5,824.98171	0.00000314

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Operation Mode	802.11 n_HT40	Test Date	2018.09.25
Temperature	:23 °C	Test By	Tom
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.283V	38	5190	5,189.99373	0.00000121
		46	5230	5,229.99569	0.00000083
		54	5270	5,269.99983	0.00000003
		62	5310	5,310.00602	-0.00000113
		102	5510	5,509.99367	0.00000115
		110	5550	5,549.99497	0.00000091
		134	5670	5,669.99229	0.00000136
		151	5755	5,754.98555	0.00000251
		159	5795	5,794.98616	0.00000239
	10.1V	38	5190	5,190.01106	-0.00000213
		46	5230	5,229.99810	0.00000036
		54	5270	5,270.00142	-0.00000027
		62	5310	5,309.99961	0.00000007
		102	5510	5,509.96740	0.00000592
		110	5550	5,549.98701	0.00000234
		134	5670	5,670.00965	-0.00000170
		151	5755	5,754.98767	0.00000214
		159	5795	5,794.99512	0.00000084

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25 °C	11.55V	38	5190	5,190.00312	-0.00000060
		46	5230	5,230.00249	-0.00000048
		54	5270	5,270.00236	-0.00000045
		62	5310	5,309.99166	0.00000157
		102	5510	5,509.98864	0.00000206
		110	5550	5,550.00606	-0.00000109
		134	5670	5,670.00485	-0.00000086
		151	5755	5,754.97263	0.00000476
		159	5795	5,794.98807	0.00000206
40 °C	13.283V	38	5190	5,190.00361	-0.00000070
		46	5230	5,229.99885	0.00000022
		54	5270	5,270.01005	-0.00000191
		62	5310	5,309.98419	0.00000298
		102	5510	5,510.00548	-0.00000099
		110	5550	5,549.98398	0.00000289
		134	5670	5,669.99631	0.00000065
		151	5755	5,754.96641	0.00000584
		159	5795	5,794.98503	0.00000258
	10.1V	38	5190	5,190.00277	-0.00000053
		46	5230	5,230.01594	-0.00000305
		54	5270	5,269.99136	0.00000164
		62	5310	5,310.00281	-0.00000053
		102	5510	5,510.00703	-0.00000128
		110	5550	5,549.99803	0.00000035
		134	5670	5,670.01671	-0.00000295
		151	5755	5,754.99488	0.00000089
		159	5795	5,795.00627	-0.00000108

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Operation Mode	802.11 ac_VHT80	Test Date	2018.09.25
Temperature	:23 °C	Test By	Tom
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.283V	42	5210	5,209.99896	0.00000020
		58	5290	5,290.00646	-0.00000122
		106	5530	5,530.00907	-0.00000164
		122	5610	5,609.99608	0.00000070
		155	5775	5,774.99091	0.00000157
	10.1V	42	5210	5,210.00488	-0.00000094
		58	5290	5,290.00892	-0.00000169
		106	5530	5,529.99904	0.00000017
		122	5610	5,609.99658	0.00000061
		155	5775	5,774.99892	0.00000019
25 °C	11.55V	42	5210	5,210.00286	-0.00000055
		58	5290	5,290.00260	-0.00000049
		106	5530	5,530.00171	-0.00000031
		122	5610	5,609.99857	0.00000025
		155	5775	5,774.99932	0.00000012
40 °C	13.283V	42	5210	5,209.99932	0.00000013
		58	5290	5,289.99692	0.00000058
		106	5530	5,529.99964	0.00000007
		122	5610	5,610.00573	-0.00000102
		155	5775	5,775.00866	-0.00000150
	10.1V	42	5210	5,210.00313	-0.00000060
		58	5290	5,289.99008	0.00000187
		106	5530	5,530.00500	-0.00000090
		122	5610	5,609.99413	0.00000105
		155	5775	5,775.00391	-0.00000068

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2 Minutes:

Operation Mode	802.11 a	Test Date	2018.09.25
Temperature	:23 °C	Test By	Tom
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.283V	36	5180	5,179.98503	0.00000289
		44	5220	5,219.99610	0.00000075
		48	5240	5,239.96941	0.00000584
		52	5260	5,260.03073	-0.00000584
		60	5300	5,299.97014	0.00000563
		64	5320	5,320.00570	-0.00000107
		100	5500	5,499.99012	0.00000180
		116	5580	5,579.98231	0.00000317
		140	5700	5,699.97539	0.00000432
		149	5745	5,744.99530	0.00000082
		157	5785	5,784.98878	0.00000194
		165	5825	5,824.98561	0.00000247
	10.1V	36	5180	5,179.97416	0.00000499
		44	5220	5,219.96719	0.00000629
		48	5240	5,239.98377	0.00000310
		52	5260	5,259.98833	0.00000222
		60	5300	5,299.97973	0.00000382
		64	5320	5,319.98657	0.00000252
		100	5500	5,499.98949	0.00000191
		116	5580	5,580.00916	-0.00000164
		140	5700	5,700.01358	-0.00000238
		149	5745	5,744.97661	0.00000407
		157	5785	5,784.99866	0.00000023
		165	5825	5,824.98691	0.00000225

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25 °C	11.55V	36	5180	5,179.98759	0.00000240
		44	5220	5,220.00216	-0.00000041
		48	5240	5,239.97706	0.00000438
		52	5260	5,260.01787	-0.00000340
		60	5300	5,299.99447	0.00000104
		64	5320	5,319.97967	0.00000382
		100	5500	5,499.97868	0.00000388
		116	5580	5,579.99807	0.00000035
		140	5700	5,699.99458	0.00000095
		149	5745	5,744.99655	0.00000060
		157	5785	5,784.99821	0.00000031
		165	5825	5,824.97673	0.00000399
40 °C	13.283V	36	5180	5,180.00807	-0.00000156
		44	5220	5,220.00409	-0.00000078
		48	5240	5,239.98943	0.00000202
		52	5260	5,260.00806	-0.00000153
		60	5300	5,300.00732	-0.00000138
		64	5320	5,319.99390	0.00000115
		100	5500	5,499.97709	0.00000416
		116	5580	5,579.99852	0.00000027
		140	5700	5,699.98206	0.00000315
		149	5745	5,745.00345	-0.00000060
		157	5785	5,784.97455	0.00000440
		165	5825	5,824.98537	0.00000251
	10.1V	36	5180	5,179.99430	0.00000110
		44	5220	5,219.97263	0.00000524
		48	5240	5,240.00026	-0.00000005
		52	5260	5,259.99253	0.00000142
		60	5300	5,299.99727	0.00000052
		64	5320	5,320.01087	-0.00000204
		100	5500	5,500.00726	-0.00000132
		116	5580	5,579.99793	0.00000037
		140	5700	5,700.00600	-0.00000105
		149	5745	5,744.97458	0.00000442
		157	5785	5,784.98038	0.00000339
		165	5825	5,824.98937	0.00000182

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Operation Mode	802.11 n_HT40	Test Date	2018.09.25
Temperature	:23 °C	Test By	Tom
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.283V	38	5190	5,189.99251	0.00000144
		46	5230	5,230.01109	-0.00000212
		54	5270	5,269.99026	0.00000185
		62	5310	5,309.99128	0.00000164
		102	5510	5,509.99746	0.00000046
		110	5550	5,550.00441	-0.00000079
		134	5670	5,670.00538	-0.00000095
		151	5755	5,754.97539	0.00000428
		159	5795	5,794.98438	0.00000270
	10.1V	38	5190	5,190.01175	-0.00000226
		46	5230	5,229.99612	0.00000074
		54	5270	5,270.00013	-0.00000002
		62	5310	5,310.00807	-0.00000152
		102	5510	5,509.96488	0.00000637
		110	5550	5,549.98617	0.00000249
		134	5670	5,669.99757	0.00000043
		151	5755	5,754.98341	0.00000288
25 °C	11.55V	159	5795	5,794.98998	0.00000173
		38	5190	5,190.00633	-0.00000122
		46	5230	5,229.99113	0.00000170
		54	5270	5,270.01607	-0.00000305
		62	5310	5,310.01017	-0.00000192
		102	5510	5,509.99066	0.00000169
		110	5550	5,550.01143	-0.00000206
		134	5670	5,669.99950	0.00000009
40 °C	13.283V	151	5755	5,754.96292	0.00000644
		159	5795	5,794.99902	0.00000017
		38	5190	5,190.00976	-0.00000188
		46	5230	5,229.99408	0.00000113
		54	5270	5,269.99981	0.00000004
		62	5310	5,309.98649	0.00000254
		102	5510	5,510.01420	-0.00000258
		110	5550	5,549.97817	0.00000393
	10.1V	134	5670	5,670.00308	-0.00000054
		151	5755	5,754.95971	0.00000700
		159	5795	5,794.99148	0.00000147
		38	5190	5,190.00503	-0.00000097
		46	5230	5,230.00752	-0.00000144
		54	5270	5,269.99955	0.00000009
		62	5310	5,310.00409	-0.00000077
		102	5510	5,510.00633	-0.00000115
		110	5550	5,550.01042	-0.00000188
		134	5670	5,669.99794	0.00000036
		151	5755	5,754.99084	0.00000159
		159	5795	5,794.99672	0.00000057

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Operation Mode	802.11 ac_VHT80	Test Date	2018.09.25
Temperature	:23 °C	Test By	Tom
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.283V	42	5210	5,210.00550	-0.00000106
		58	5290	5,290.00506	-0.00000096
		106	5530	5,529.99011	0.00000179
		122	5610	5,609.99602	0.00000071
		155	5775	5,775.00528	-0.00000091
	10.1V	42	5210	5,210.00111	-0.00000021
		58	5290	5,290.00413	-0.00000078
		106	5530	5,530.00291	-0.00000053
		122	5610	5,609.99918	0.00000015
		155	5775	5,774.99430	0.00000099
25 °C	11.55V	42	5210	5,210.00744	-0.00000143
		58	5290	5,290.00913	-0.00000173
		106	5530	5,530.00149	-0.00000027
		122	5610	5,609.99336	0.00000118
		155	5775	5,774.99895	0.00000018
40 °C	13.283V	42	5210	5,210.00107	-0.00000020
		58	5290	5,290.00387	-0.00000073
		106	5530	5,529.99937	0.00000011
		122	5610	5,609.99908	0.00000016
		155	5775	5,775.00903	-0.00000156
	10.1V	42	5210	5,210.00411	-0.00000079
		58	5290	5,290.00343	-0.00000065
		106	5530	5,529.99469	0.00000096
		122	5610	5,609.99095	0.00000161
		155	5775	5,775.00118	-0.00000020

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Operation Mode	802.11 a	Test Date	2018.09.25
Temperature	:23 °C	Test By	Tom
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.283V	36	5180	5,179.99761	0.00000046
		44	5220	5,219.99489	0.00000098
		48	5240	5,239.97201	0.00000534
		52	5260	5,260.02177	-0.00000414
		60	5300	5,299.97513	0.00000469
		64	5320	5,319.99533	0.00000088
		100	5500	5,499.99898	0.00000019
		116	5580	5,579.97777	0.00000398
		140	5700	5,699.98315	0.00000296
		149	5745	5,744.97894	0.00000367
		157	5785	5,784.99121	0.00000152
		165	5825	5,824.98826	0.00000202
	10.1V	36	5180	5,179.98272	0.00000334
		44	5220	5,219.97319	0.00000514
		48	5240	5,239.97662	0.00000446
		52	5260	5,260.00461	-0.00000088
		60	5300	5,299.98134	0.00000352
		64	5320	5,320.00199	-0.00000037
		100	5500	5,500.00219	-0.00000040
		116	5580	5,579.99564	0.00000078
		140	5700	5,700.00994	-0.00000174
		149	5745	5,744.97617	0.00000415
		157	5785	5,785.00133	-0.00000023
		165	5825	5,824.98469	0.00000263

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25 °C	11.55V	36	5180	5,179.99355	0.00000125
		44	5220	5,219.99184	0.00000156
		48	5240	5,239.97405	0.00000495
		52	5260	5,260.01457	-0.00000277
		60	5300	5,299.98541	0.00000275
		64	5320	5,319.97631	0.00000445
		100	5500	5,499.98321	0.00000305
		116	5580	5,579.98712	0.00000231
		140	5700	5,699.99846	0.00000027
		149	5745	5,744.99520	0.00000084
		157	5785	5,784.98629	0.00000237
		165	5825	5,824.97594	0.00000413
40 °C	13.283V	36	5180	5,180.00617	-0.00000119
		44	5220	5,219.99666	0.00000064
		48	5240	5,239.98422	0.00000301
		52	5260	5,260.00693	-0.00000132
		60	5300	5,300.00951	-0.00000179
		64	5320	5,319.98851	0.00000216
		100	5500	5,499.97086	0.00000530
		116	5580	5,579.99486	0.00000092
		140	5700	5,699.98348	0.00000290
		149	5745	5,745.01122	-0.00000195
		157	5785	5,784.97641	0.00000408
		165	5825	5,824.98859	0.00000196
	10.1V	36	5180	5,179.98947	0.00000203
		44	5220	5,219.96917	0.00000591
		48	5240	5,240.01568	-0.00000299
		52	5260	5,259.99916	0.00000016
		60	5300	5,300.00685	-0.00000129
		64	5320	5,320.01739	-0.00000327
		100	5500	5,500.00628	-0.00000114
		116	5580	5,579.99819	0.00000032
		140	5700	5,700.01011	-0.00000177
		149	5745	5,744.98473	0.00000266
		157	5785	5,784.98563	0.00000248
		165	5825	5,824.98789	0.00000208

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Operation Mode	802.11 n_HT40	Test Date	2018.09.25
Temperature	:23 °C	Test By	Tom
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.283V	38	5190	5,189.98178	0.00000351
		46	5230	5,230.01242	-0.00000237
		54	5270	5,269.99552	0.00000085
		62	5310	5,310.00813	-0.00000153
		102	5510	5,509.99309	0.00000125
		110	5550	5,549.98968	0.00000186
		134	5670	5,669.99462	0.00000095
		151	5755	5,754.98342	0.00000288
		159	5795	5,794.97741	0.00000390
	10.1V	38	5190	5,190.01054	-0.00000203
		46	5230	5,229.99651	0.00000067
		54	5270	5,269.99365	0.00000120
		62	5310	5,310.00190	-0.00000036
		102	5510	5,509.97508	0.00000452
		110	5550	5,549.99626	0.00000067
		134	5670	5,669.99972	0.00000005
		151	5755	5,754.99909	0.00000016
25 °C	11.55V	38	5190	5,189.99572	0.00000082
		46	5230	5,229.99191	0.00000155
		54	5270	5,270.00642	-0.00000122
		62	5310	5,310.00178	-0.00000033
		102	5510	5,509.98623	0.00000250
		110	5550	5,550.00613	-0.00000111
		134	5670	5,669.99844	0.00000027
		151	5755	5,754.96221	0.00000657
40 °C	13.283V	38	5190	5,190.00846	-0.00000163
		46	5230	5,229.98474	0.00000292
		54	5270	5,270.00977	-0.00000185
		62	5310	5,309.99353	0.00000122
		102	5510	5,510.01271	-0.00000231
		110	5550	5,549.97297	0.00000487
		134	5670	5,670.00261	-0.00000046
		151	5755	5,754.96474	0.00000613
	10.1V	159	5795	5,794.99402	0.00000103
		38	5190	5,189.99818	0.00000035
		46	5230	5,230.00681	-0.00000130
		54	5270	5,269.98930	0.00000203
		62	5310	5,309.99958	0.00000008
		102	5510	5,509.99936	0.00000012
		110	5550	5,550.00812	-0.00000146
		134	5670	5,670.01553	-0.00000274
		151	5755	5,754.99592	0.00000071
		159	5795	5,794.99672	0.00000057

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Operation Mode	802.11 ac_VHT80	Test Date	2018.09.25
Temperature	:23 °C	Test By	Tom
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.283V	42	5210	5,209.99455	0.00000105
		58	5290	5,289.99857	0.00000027
		106	5530	5,530.00727	-0.00000131
		122	5610	5,609.99557	0.00000079
		155	5775	5,775.00483	-0.00000084
	10.1V	42	5210	5,209.99541	0.00000088
		58	5290	5,290.00898	-0.00000170
		106	5530	5,530.00883	-0.00000160
		122	5610	5,609.99436	0.00000101
		155	5775	5,775.00405	-0.00000070
25 °C	11.55V	42	5210	5,209.99678	0.00000062
		58	5290	5,289.99926	0.00000014
		106	5530	5,530.00785	-0.00000142
		122	5610	5,609.99864	0.00000024
		155	5775	5,774.99530	0.00000081
40 °C	13.283V	42	5210	5,209.99860	0.00000027
		58	5290	5,289.99672	0.00000062
		106	5530	5,530.00918	-0.00000166
		122	5610	5,610.00436	-0.00000078
		155	5775	5,774.99105	0.00000155
	10.1V	42	5210	5,209.99128	0.00000167
		58	5290	5,290.00872	-0.00000165
		106	5530	5,529.99444	0.00000101
		122	5610	5,610.00495	-0.00000088
		155	5775	5,774.99425	0.00000100

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10 Minutes:

Operation Mode	802.11 a	Test Date	2018.09.25
Temperature	:23 °C	Test By	Tom
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.283V	36	5180	5,179.99964	0.00000007
		44	5220	5,219.99525	0.00000091
		48	5240	5,239.98400	0.00000305
		52	5260	5,260.02486	-0.00000473
		60	5300	5,299.98245	0.00000331
		64	5320	5,319.99415	0.00000110
		100	5500	5,499.99686	0.00000057
		116	5580	5,579.97073	0.00000525
		140	5700	5,699.97373	0.00000461
		149	5745	5,744.98793	0.00000210
		157	5785	5,784.97927	0.00000358
		165	5825	5,824.98063	0.00000332
	10.1V	36	5180	5,179.98457	0.00000298
		44	5220	5,219.97136	0.00000549
		48	5240	5,239.97255	0.00000524
		52	5260	5,260.00020	-0.00000004
		60	5300	5,299.97860	0.00000404
		64	5320	5,319.99731	0.00000051
		100	5500	5,499.98701	0.00000236
		116	5580	5,580.00627	-0.00000112
		140	5700	5,700.00104	-0.00000018
		149	5745	5,744.97051	0.00000513
		157	5785	5,785.00552	-0.00000095
		165	5825	5,824.97697	0.00000395

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25 °C	11.55V	36	5180	5,179.98411	0.00000307
		44	5220	5,220.00818	-0.00000157
		48	5240	5,239.97545	0.00000469
		52	5260	5,260.01722	-0.00000327
		60	5300	5,299.98343	0.00000313
		64	5320	5,319.97602	0.00000451
		100	5500	5,499.97515	0.00000452
		116	5580	5,579.98417	0.00000284
		140	5700	5,699.99337	0.00000116
		149	5745	5,744.99024	0.00000170
		157	5785	5,784.99250	0.00000130
		165	5825	5,824.98833	0.00000200
40 °C	13.283V	36	5180	5,180.00244	-0.00000047
		44	5220	5,220.00450	-0.00000086
		48	5240	5,239.97702	0.00000438
		52	5260	5,259.99959	0.00000008
		60	5300	5,299.99452	0.00000103
		64	5320	5,319.99011	0.00000186
		100	5500	5,499.97202	0.00000509
		116	5580	5,579.99512	0.00000088
		140	5700	5,699.97616	0.00000418
		149	5745	5,745.00340	-0.00000059
		157	5785	5,784.97702	0.00000397
		165	5825	5,824.98918	0.00000186
	10.1V	36	5180	5,179.98405	0.00000308
		44	5220	5,219.97256	0.00000526
		48	5240	5,240.00293	-0.00000056
		52	5260	5,259.99687	0.00000060
		60	5300	5,300.00060	-0.00000011
		64	5320	5,320.00838	-0.00000158
		100	5500	5,499.99976	0.00000004
		116	5580	5,580.00087	-0.00000016
		140	5700	5,699.99482	0.00000091
		149	5745	5,744.98135	0.00000325
		157	5785	5,784.97851	0.00000371
		165	5825	5,824.97480	0.00000433

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Operation Mode	802.11 n_HT40	Test Date	2018.09.25
Temperature	:23 °C	Test By	Tom
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.283V	38	5190	5,189.98380	0.00000312
		46	5230	5,229.99669	0.00000063
		54	5270	5,269.98755	0.00000236
		62	5310	5,310.00278	-0.00000052
		102	5510	5,509.99696	0.00000055
		110	5550	5,550.00178	-0.00000032
		134	5670	5,669.99251	0.00000132
		151	5755	5,754.98771	0.00000214
		159	5795	5,794.98017	0.00000342
	10.1V	38	5190	5,190.00972	-0.00000187
		46	5230	5,229.99458	0.00000104
		54	5270	5,270.00483	-0.00000092
		62	5310	5,309.99862	0.00000026
		102	5510	5,509.97553	0.00000444
		110	5550	5,550.00307	-0.00000055
		134	5670	5,669.99885	0.00000020
		151	5755	5,754.98519	0.00000257
25 °C	11.55V	159	5795	5,794.99556	0.00000077
		38	5190	5,190.00754	-0.00000145
		46	5230	5,230.00362	-0.00000069
		54	5270	5,270.00405	-0.00000077
		62	5310	5,310.01015	-0.00000191
		102	5510	5,509.98168	0.00000333
		110	5550	5,549.99908	0.00000017
		134	5670	5,670.00308	-0.00000054
40 °C	13.283V	151	5755	5,754.95637	0.00000758
		159	5795	5,794.99976	0.00000004
		38	5190	5,190.01697	-0.00000327
		46	5230	5,229.98290	0.00000327
		54	5270	5,269.99969	0.00000006
		62	5310	5,309.99530	0.00000089
		102	5510	5,510.00400	-0.00000073
		110	5550	5,549.98111	0.00000340
	10.1V	134	5670	5,669.99792	0.00000037
		151	5755	5,754.97154	0.00000495
		159	5795	5,794.99107	0.00000154
		38	5190	5,189.99787	0.00000041
		46	5230	5,230.01129	-0.00000216
		54	5270	5,269.99542	0.00000087
		62	5310	5,310.00012	-0.00000002
		102	5510	5,510.00701	-0.00000127
		110	5550	5,549.99524	0.00000086
		134	5670	5,670.00450	-0.00000079
		151	5755	5,755.00431	-0.00000075
		159	5795	5,794.99485	0.00000089

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Operation Mode	802.11 ac_VHT80	Test Date	2018.09.25
Temperature	:23 °C	Test By	Tom
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	13.283V	42	5210	5,210.00538	-0.00000103
		58	5290	5,290.00244	-0.00000046
		106	5530	5,530.00715	-0.00000129
		122	5610	5,609.99428	0.00000102
		155	5775	5,774.99873	0.00000022
	10.1V	42	5210	5,209.99816	0.00000035
		58	5290	5,289.99879	0.00000023
		106	5530	5,529.99365	0.00000115
		122	5610	5,610.00425	-0.00000076
		155	5775	5,775.00620	-0.00000107
25 °C	11.55V	42	5210	5,210.00119	-0.00000023
		58	5290	5,289.99733	0.00000050
		106	5530	5,530.00105	-0.00000019
		122	5610	5,609.99555	0.00000079
		155	5775	5,775.00853	-0.00000148
40 °C	13.283V	42	5210	5,209.99499	0.00000096
		58	5290	5,290.00341	-0.00000065
		106	5530	5,530.00952	-0.00000172
		122	5610	5,609.99378	0.00000111
		155	5775	5,774.99854	0.00000025
	10.1V	42	5210	5,210.00862	-0.00000165
		58	5290	5,289.99939	0.00000012
		106	5530	5,530.00302	-0.00000055
		122	5610	5,610.00843	-0.00000150
		155	5775	5,774.99599	0.00000069

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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 with unique RF connector and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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