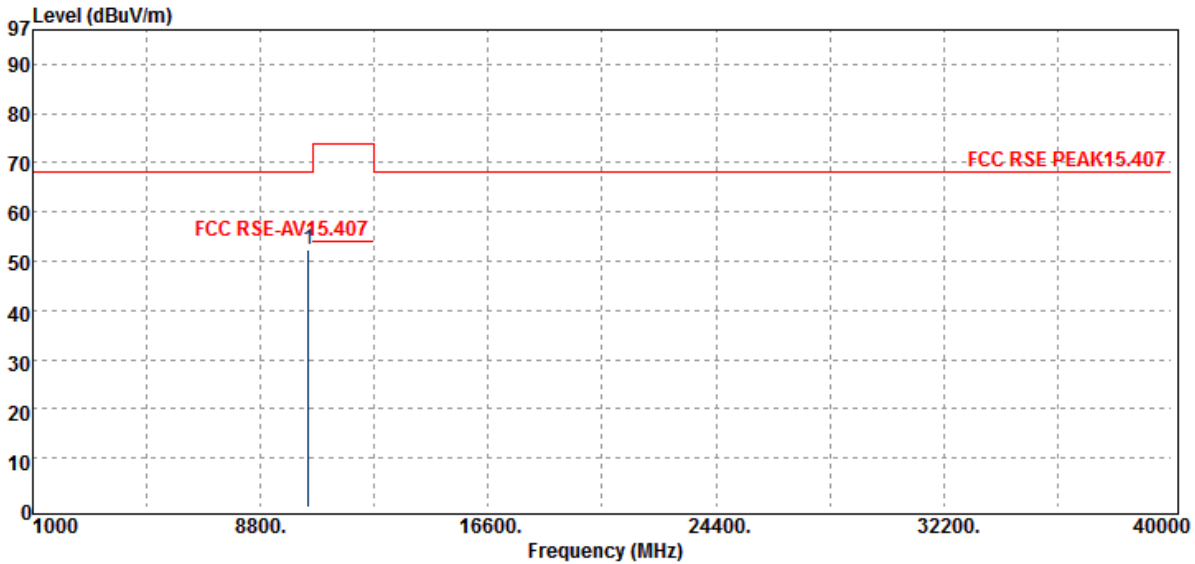


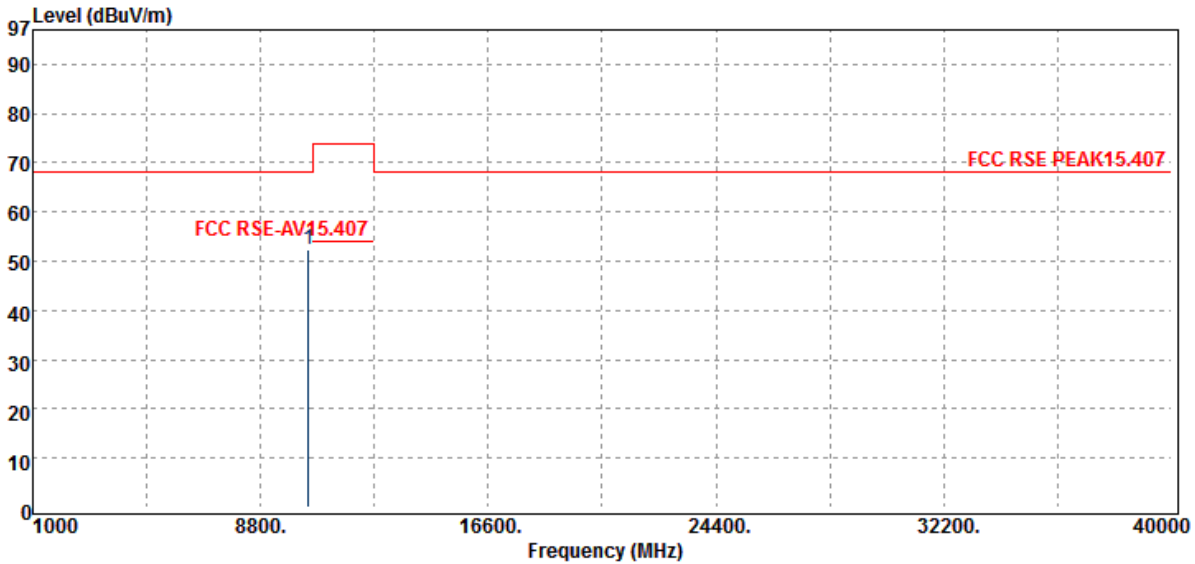
Operation Band	:802.11aB1	Test Date	:2018-03-28
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10440.00	H	Peak	31.53	20.75	52.28	68.30	-16.02

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Operation Band	:802.11aB1	Test Date	:2018-03-28
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
10440.00	H	Peak	31.60	20.75	52.35	68.30	-15.95

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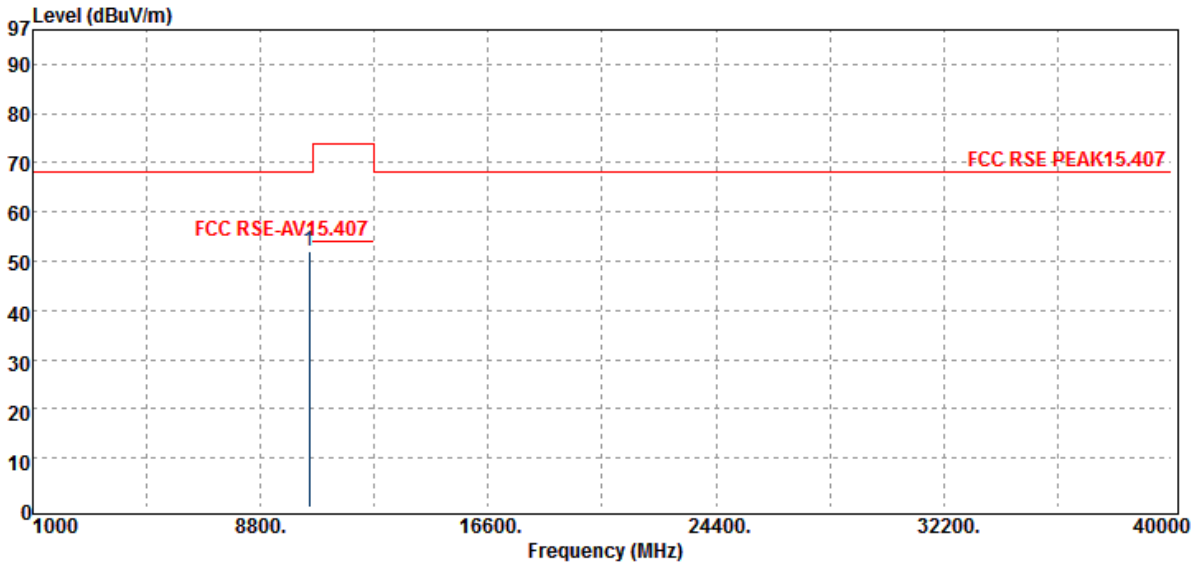
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Operation Band	:802.11aB1	Test Date	:2018-03-28
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
10480.00	H	Peak	31.29	20.79	52.08	68.30	-16.22

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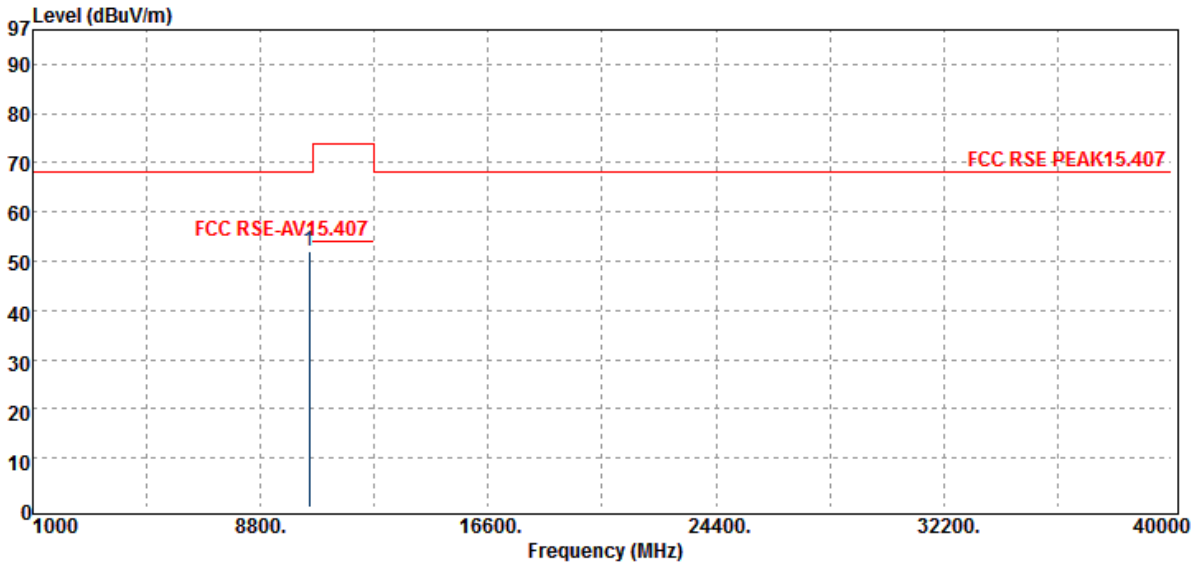
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Operation Band	:802.11aB1	Test Date	:2018-03-28
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

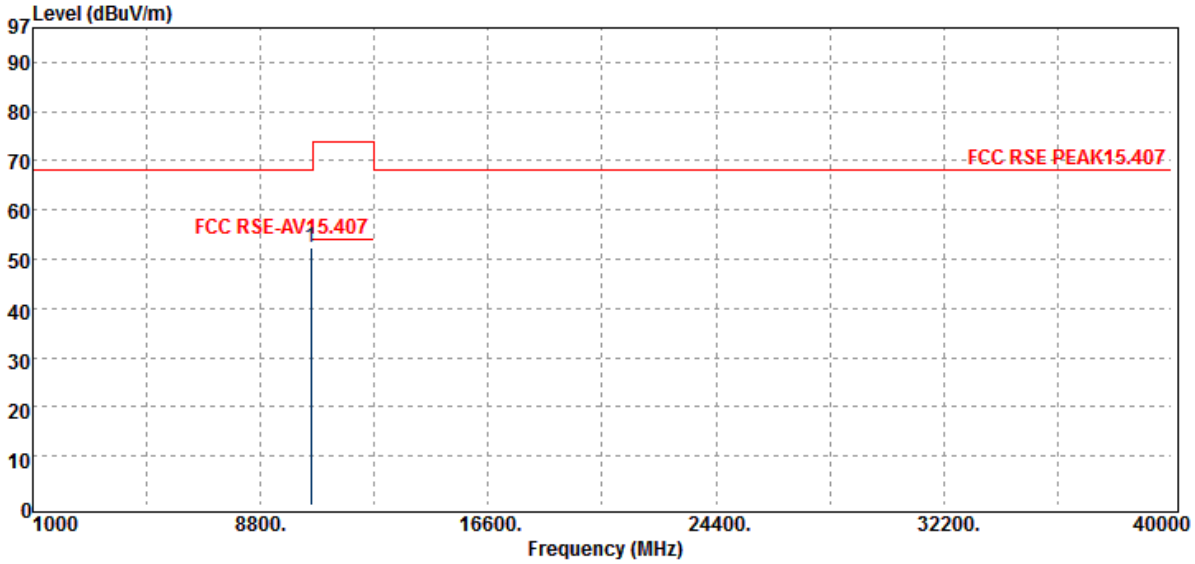


Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
10480.00	H	Peak	31.09	20.79	51.88	68.30	-16.42

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

Operation Band	:802.11aB2	Test Date	:2018-03-28
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10520.00	H	Peak	31.60	20.78	52.38	68.30	-15.92

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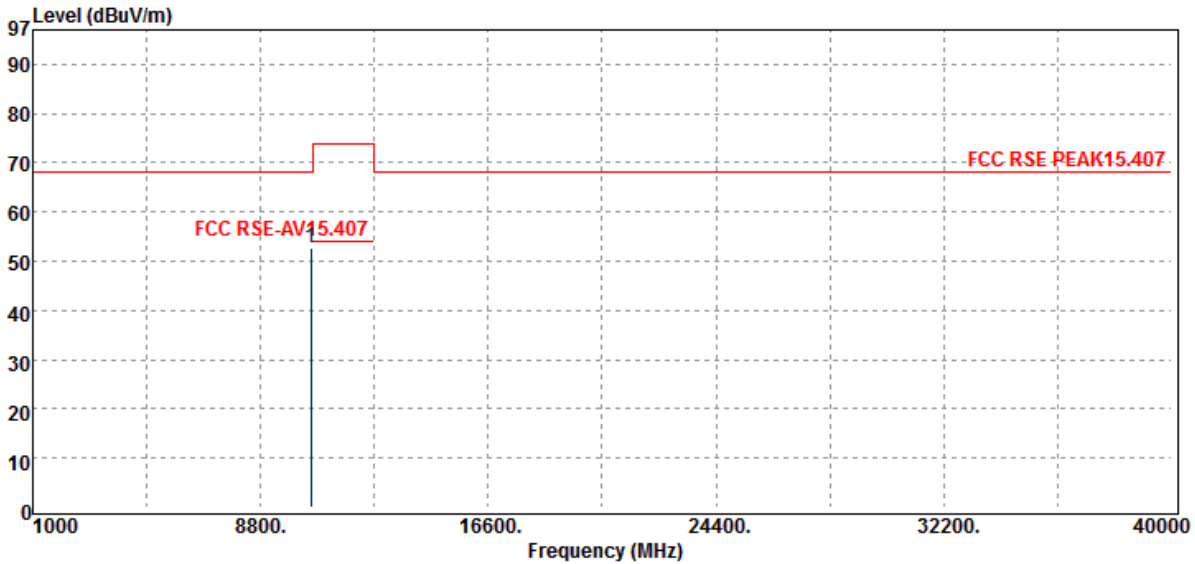
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Operation Band	:802.11aB2	Test Date	:2018-03-28
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10520.00	H	Peak	31.86	20.78	52.64	68.30	-15.66

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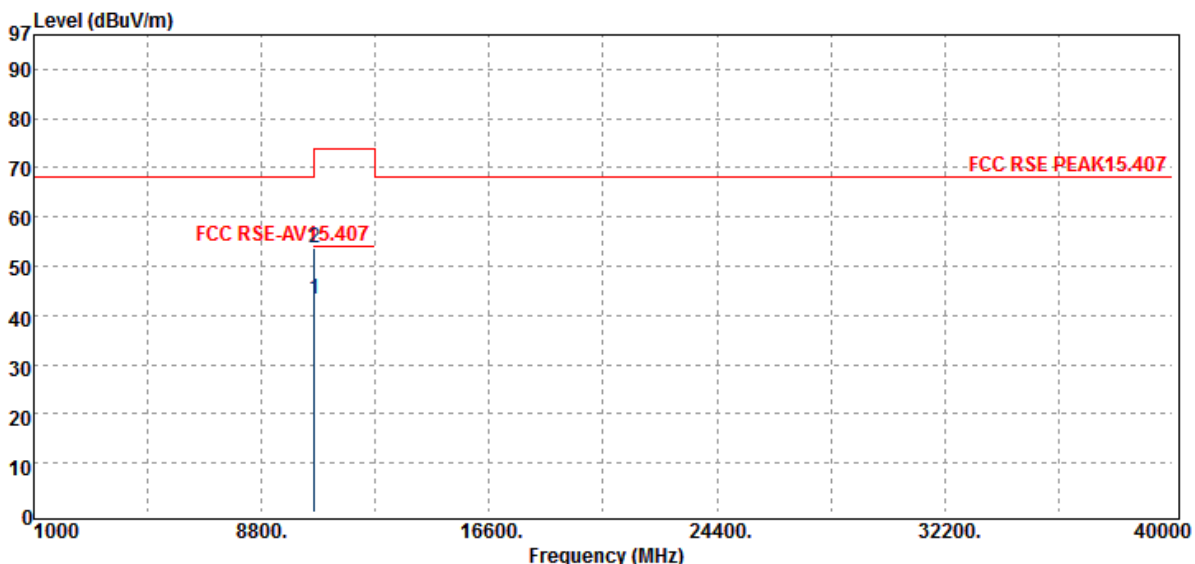
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Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2018-03-28
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10600.00	H	Average	22.22	21.18	43.40	54.00	-10.60
10600.00	H	Peak	32.44	21.18	53.62	74.00	-20.38

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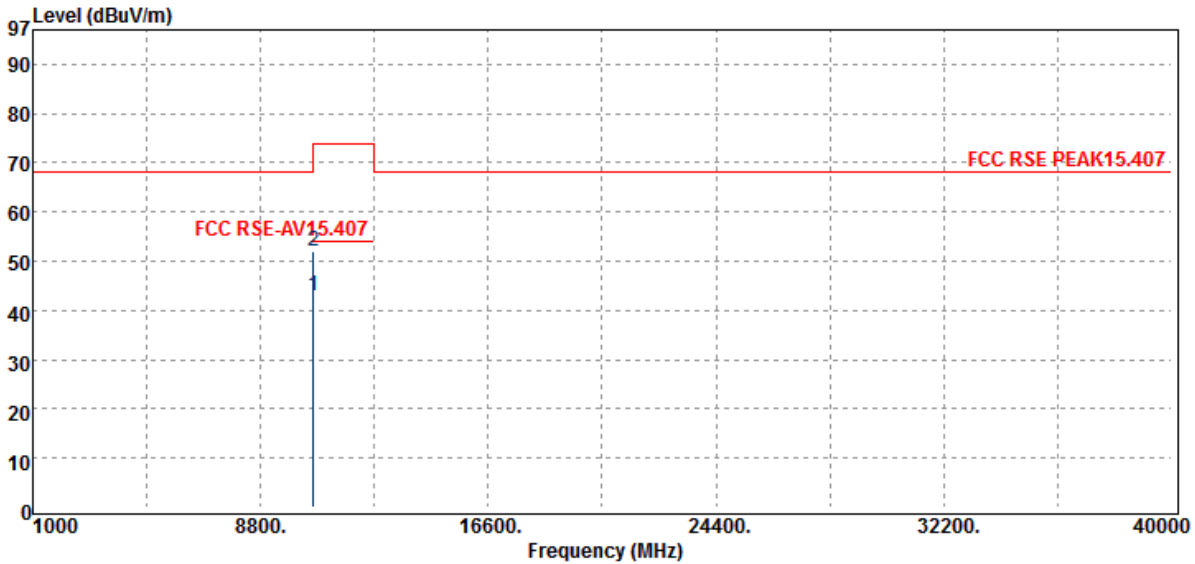
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Operation Band	:802.11aB2	Test Date	:2018-03-28
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	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	Safe Margin dB
10600.00	H	Average	21.66	21.18	42.84	54.00	-11.16
10600.00	H	Peak	30.87	21.18	52.05	74.00	-21.95

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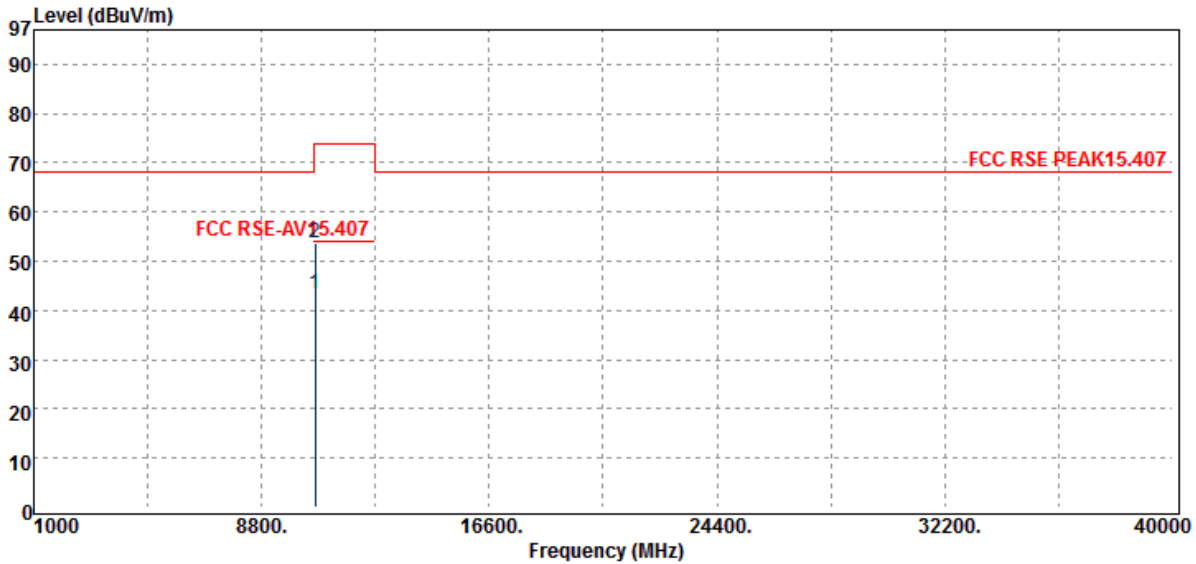
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Operation Band	:802.11aB2	Test Date	:2018-03-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10640.00	H	Average	22.09	21.24	43.33	54.00	-10.67
10640.00	H	Peak	32.39	21.24	53.63	74.00	-20.37

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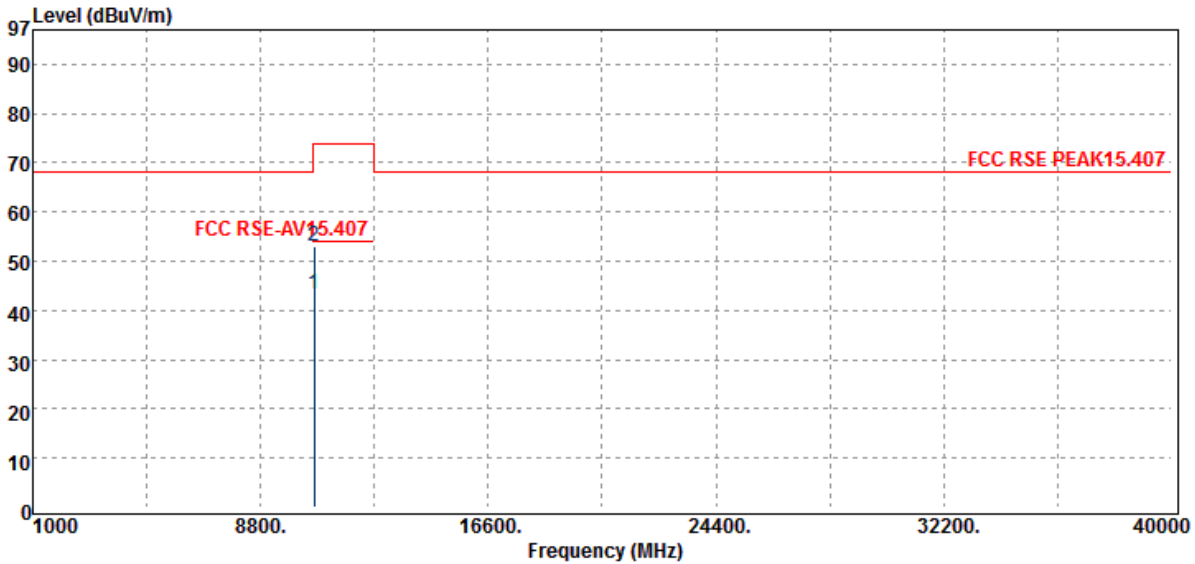
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Operation Band	:802.11aB2	Test Date	:2018-03-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10640.00	H	Average	22.11	21.24	43.35	54.00	-10.65
10640.00	H	Peak	31.66	21.24	52.90	74.00	-21.10

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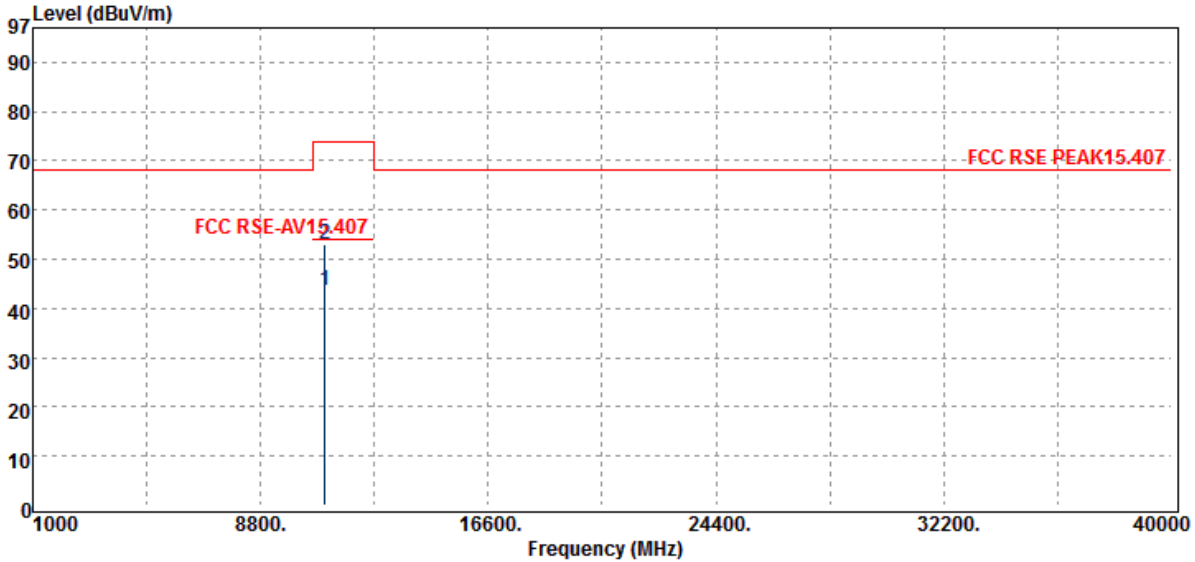
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Band	:802.11aB3	Test Date	:2018-03-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11000.00	H	Average	21.49	22.17	43.66	54.00	-10.34
11000.00	H	Peak	30.78	22.17	52.95	74.00	-21.05

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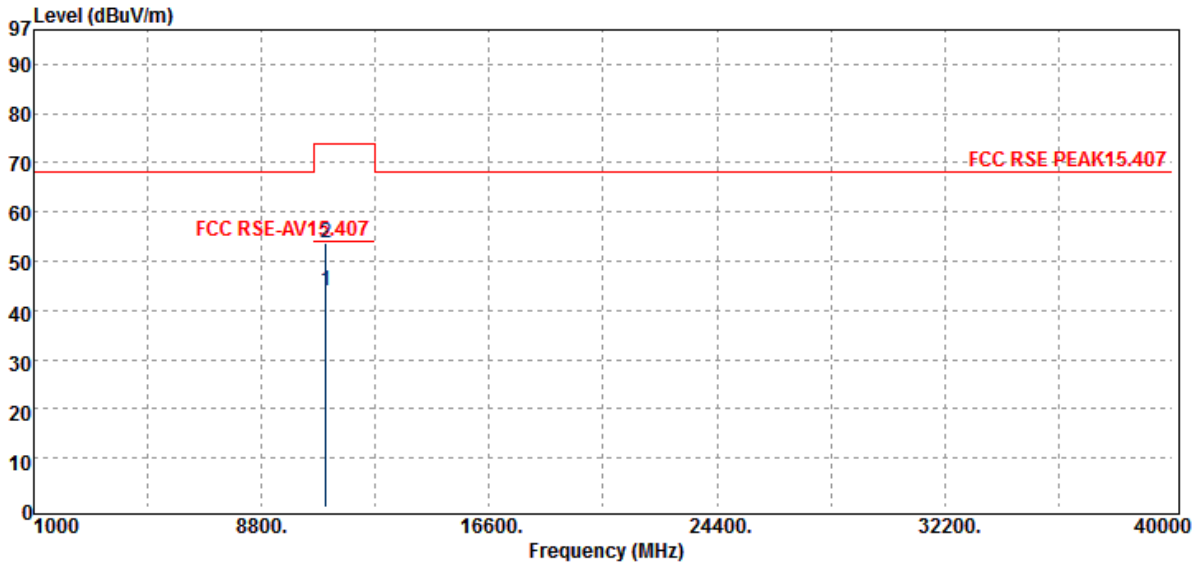
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Operation Band	:802.11aB3	Test Date	:2018-03-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11000.00	H	Average	21.77	22.17	43.94	54.00	-10.06
11000.00	H	Peak	31.48	22.17	53.65	74.00	-20.35

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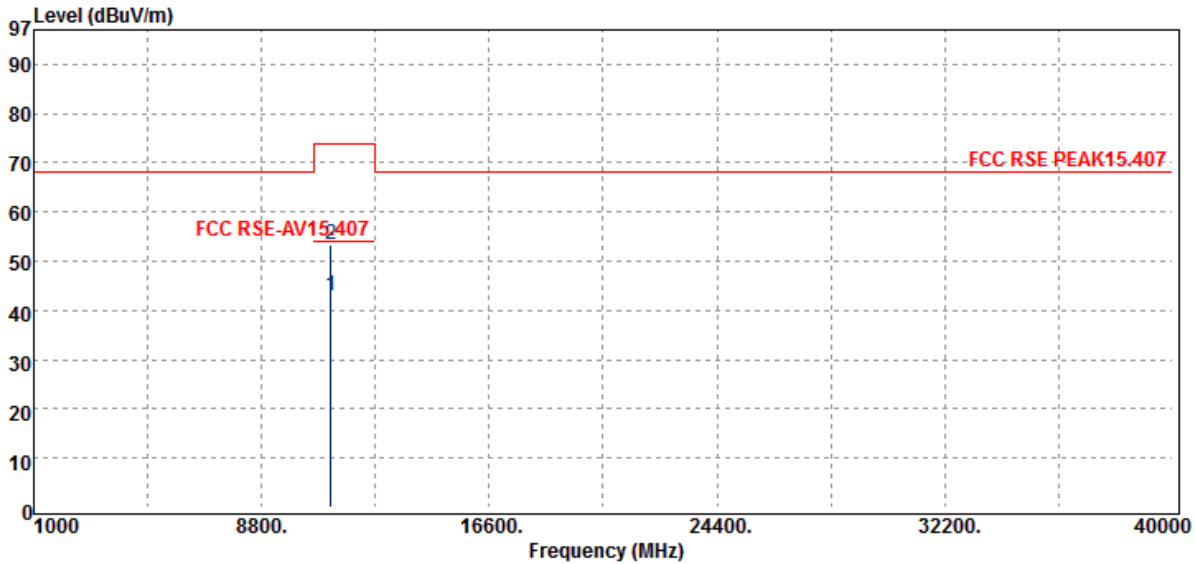
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Operation Band	:802.11aB3	Test Date	:2018-03-28
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



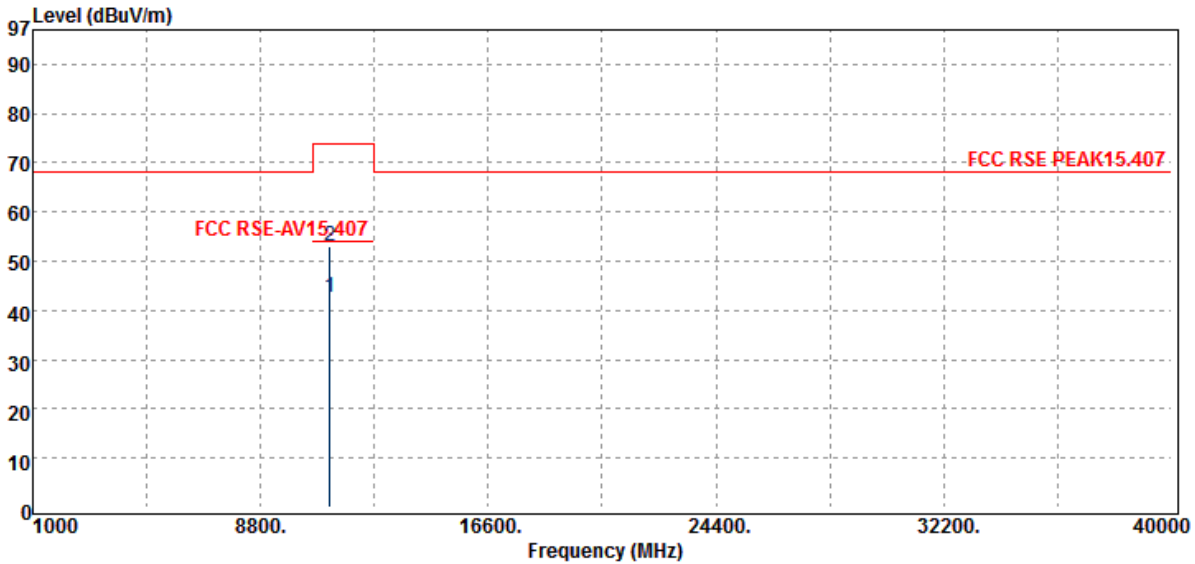
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11160.00	H	Average	20.61	22.31	42.92	54.00	-11.08
11160.00	H	Peak	31.07	22.31	53.38	74.00	-20.62

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Operation Band	:802.11aB3	Test Date	:2018-03-28
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11160.00	H	Average	20.40	22.31	42.71	54.00	-11.29
11160.00	H	Peak	30.68	22.31	52.99	74.00	-21.01

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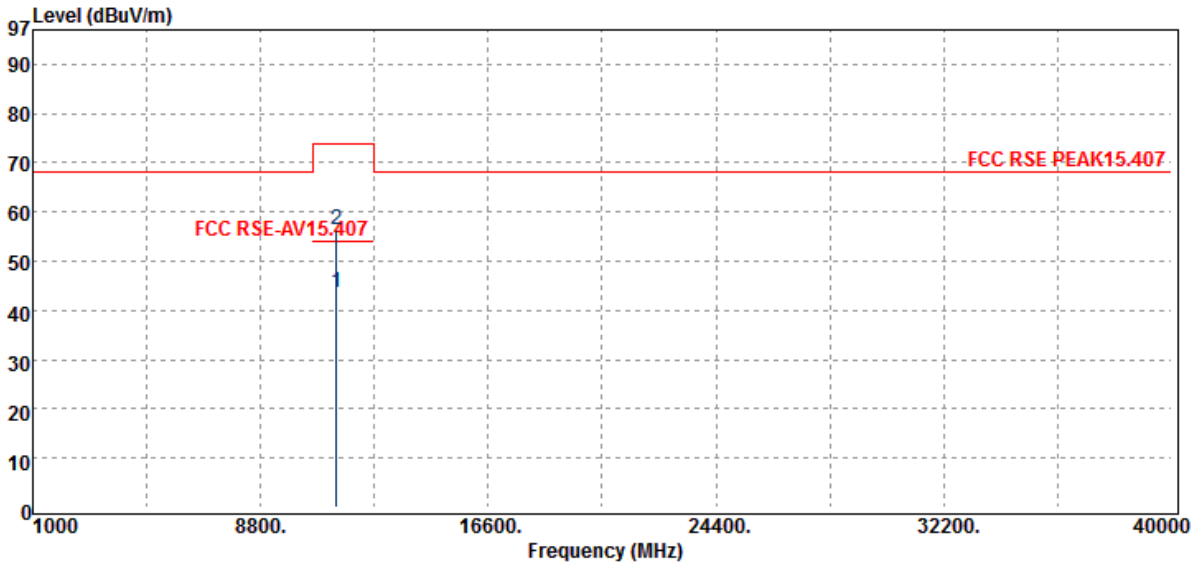
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Operation Band	:802.11aB3	Test Date	:2018-03-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11400.00	H	Average	21.19	22.42	43.61	54.00	-10.39
11400.00	H	Peak	33.84	22.42	56.26	74.00	-17.74

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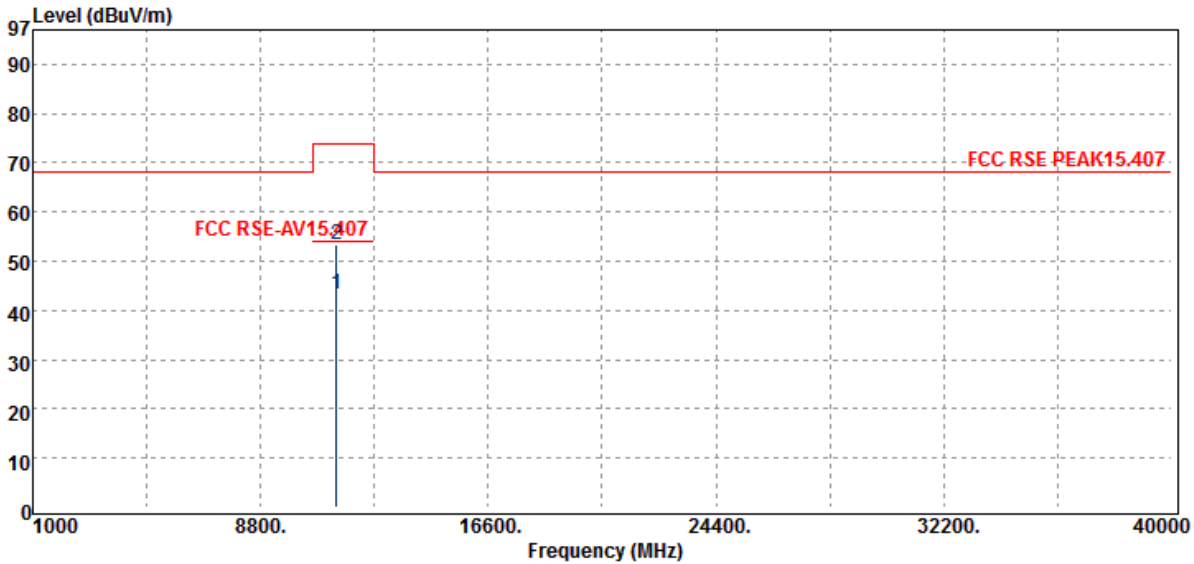
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Operation Band	:802.11aB3	Test Date	:2018-03-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11400.00	H	Average	20.88	22.42	43.30	54.00	-10.70
11400.00	H	Peak	31.10	22.42	53.52	74.00	-20.48

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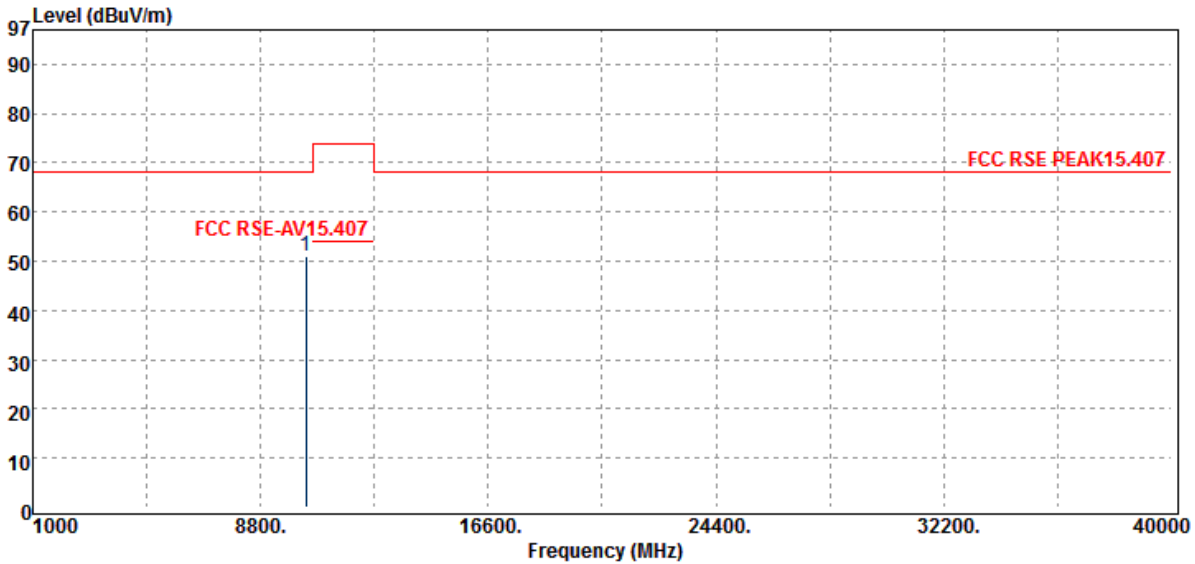
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Band	:802.11n20B1	Test Date	:2018-03-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10360.00	H	Peak	30.75	20.41	51.16	68.30	-17.14

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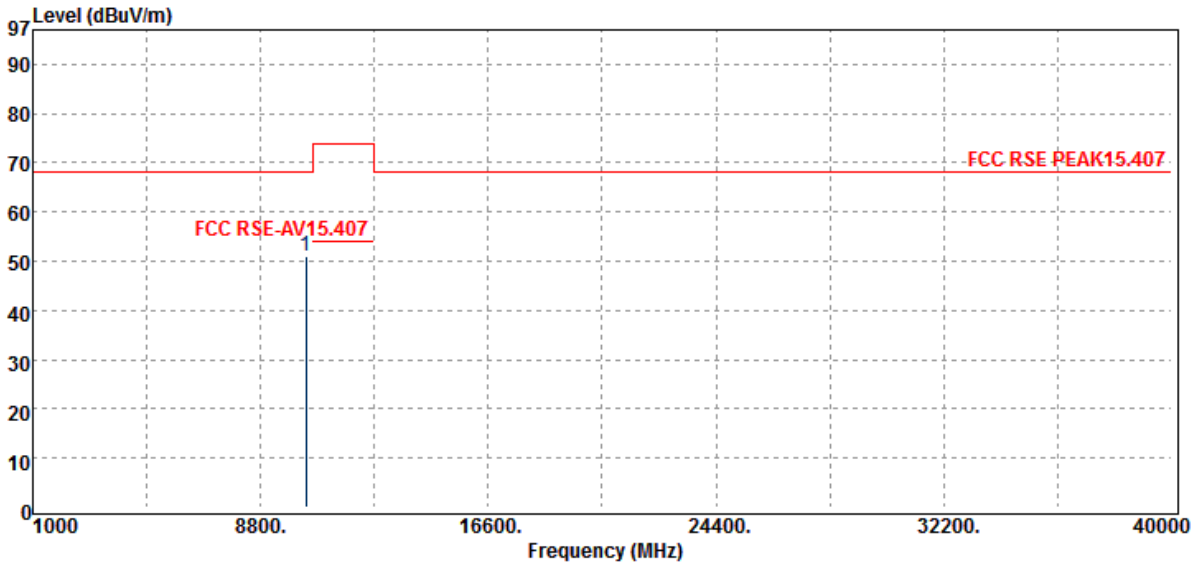
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Operation Band	:802.11n20B1	Test Date	:2018-03-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10360.00	H	Peak	30.72	20.41	51.13	68.30	-17.17

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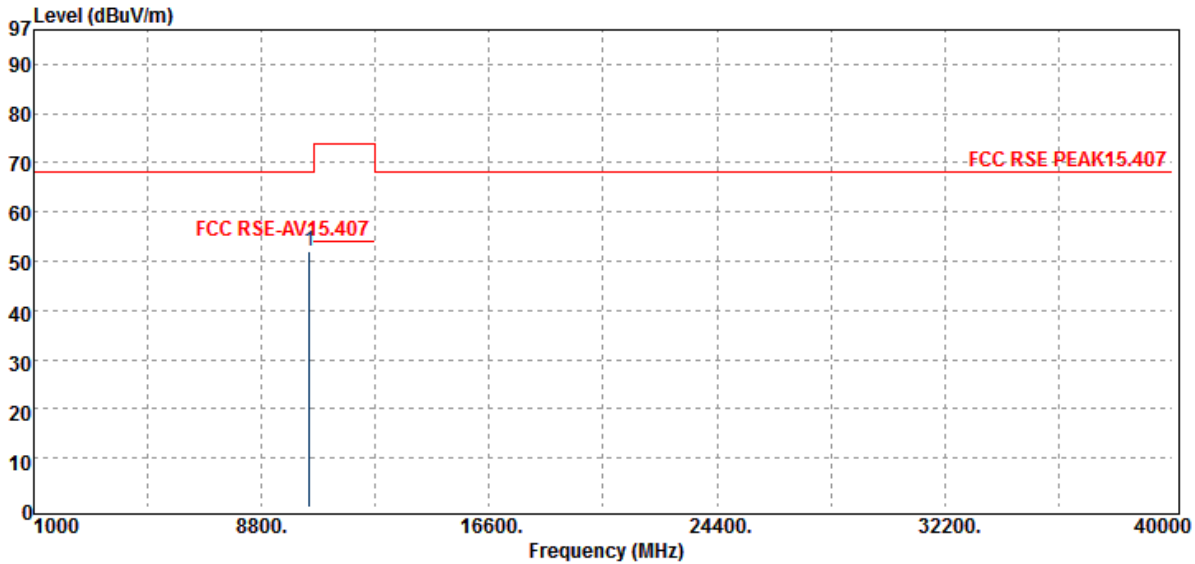
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Operation Band	:802.11n20B1	Test Date	:2018-03-28
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



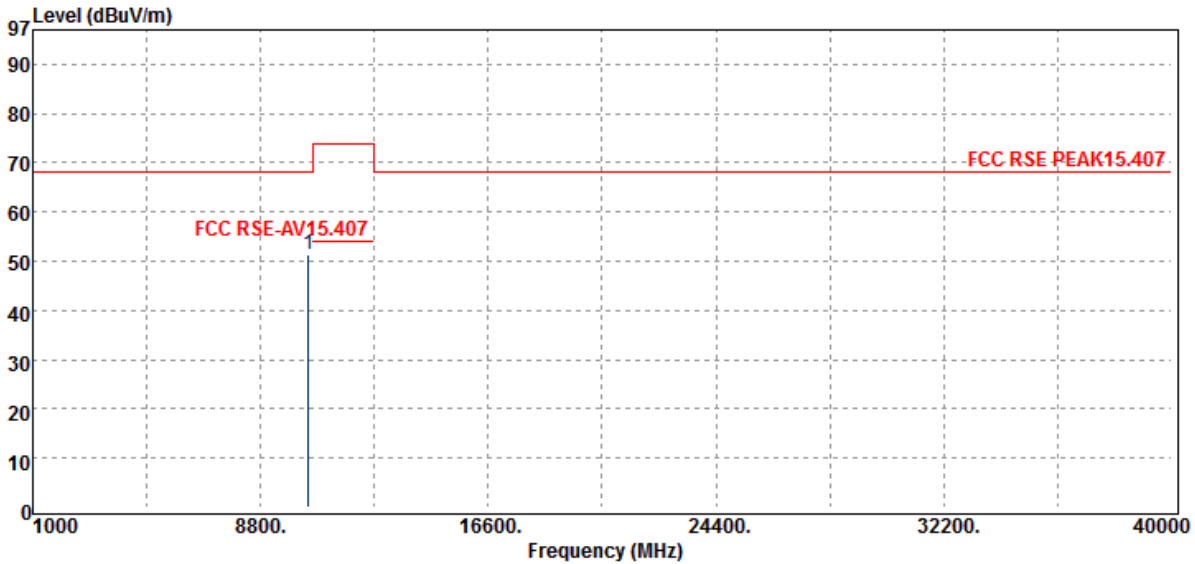
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
10440.00	H	Peak	31.23	20.75	51.98	68.30	-16.32

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Operation Band	:802.11n20B1	Test Date	:2018-03-28
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	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	Safe Margin dB
10440.00	H	Peak	30.53	20.75	51.28	68.30	-17.02

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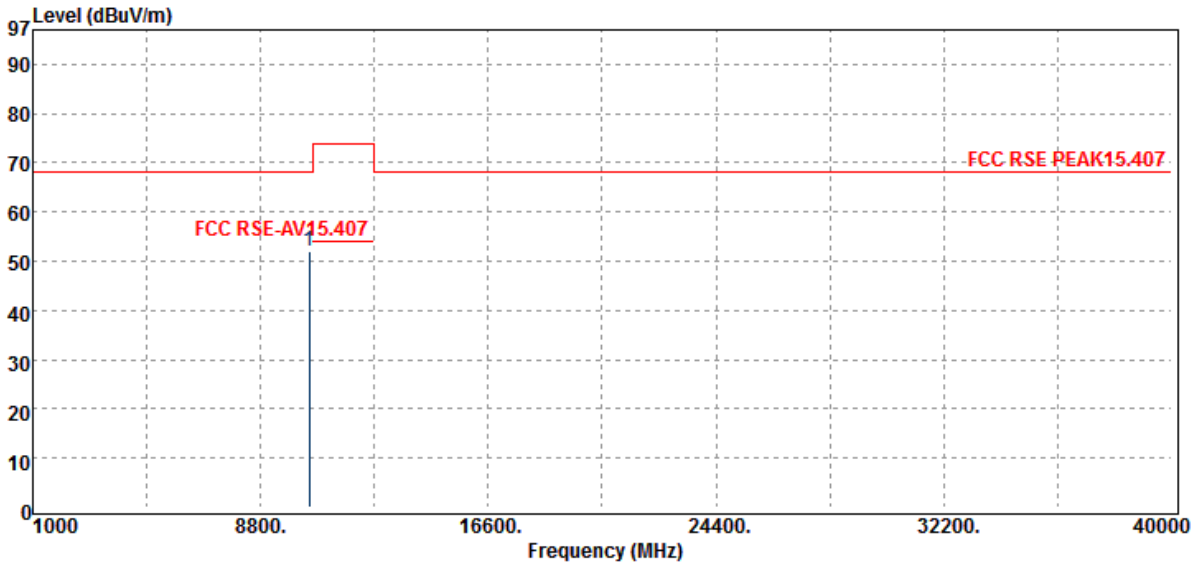
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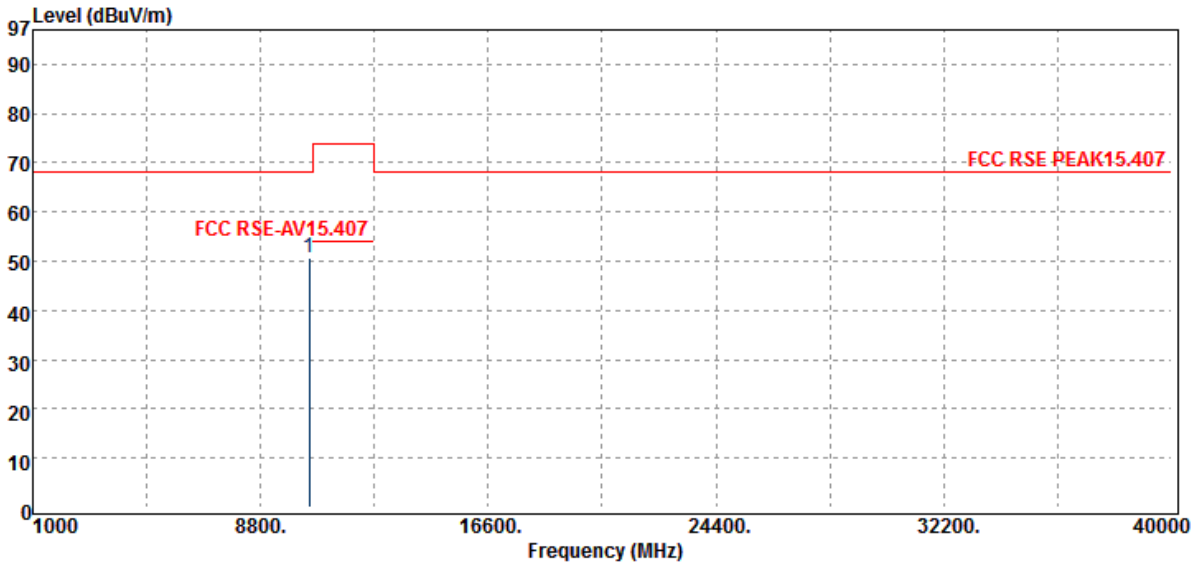
Operation Band	:802.11n20B1	Test Date	:2018-03-28
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
10480.00	H	Peak	31.11	20.79	51.90	68.30	-16.40

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Operation Band	:802.11n20B1	Test Date	:2018-03-28
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

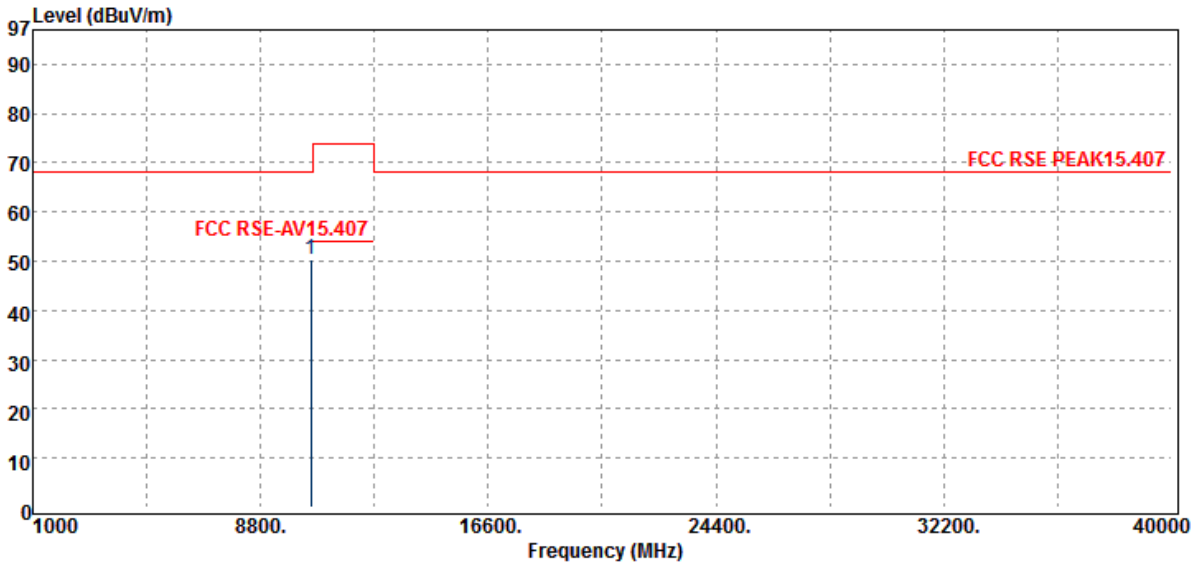


Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
10480.00	H	Peak	29.84	20.79	50.63	68.30	-17.67

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

Operation Band	:802.11n20B2	Test Date	:2018-03-28
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10520.00	H	Peak	29.47	20.78	50.25	68.30	-18.05

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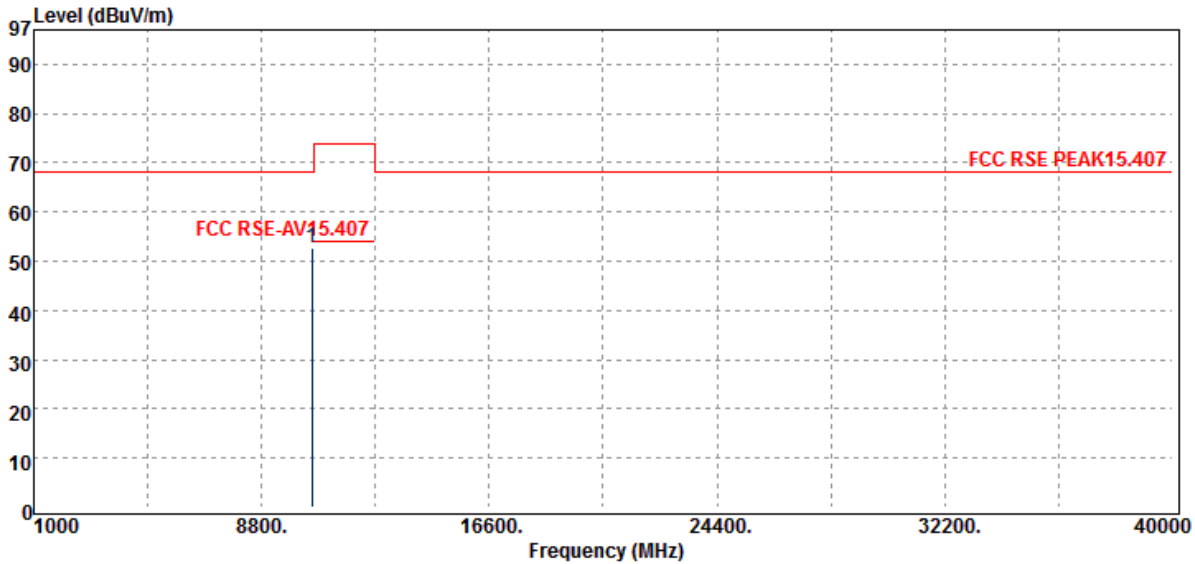
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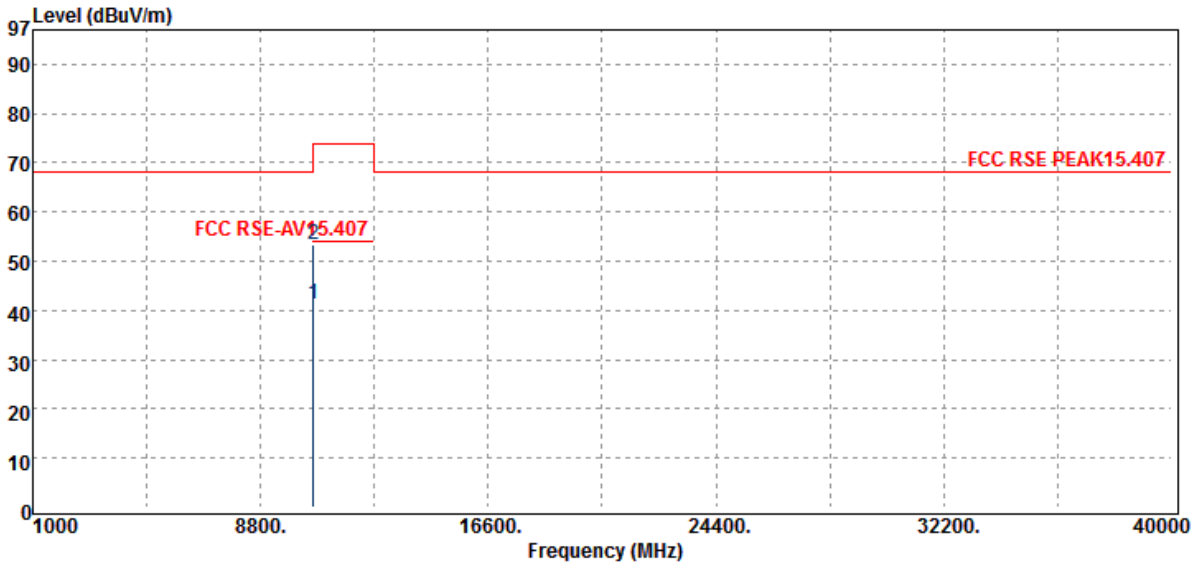
Operation Band	:802.11n20B2	Test Date	:2018-03-28
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
10520.00	H	Peak	31.79	20.78	52.57	68.30	-15.73

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Operation Band	:802.11n20B2	Test Date	:2018-03-28
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
10600.00	H	Average	20.09	21.18	41.27	54.00	-12.73
10600.00	H	Peak	32.08	21.18	53.26	74.00	-20.74

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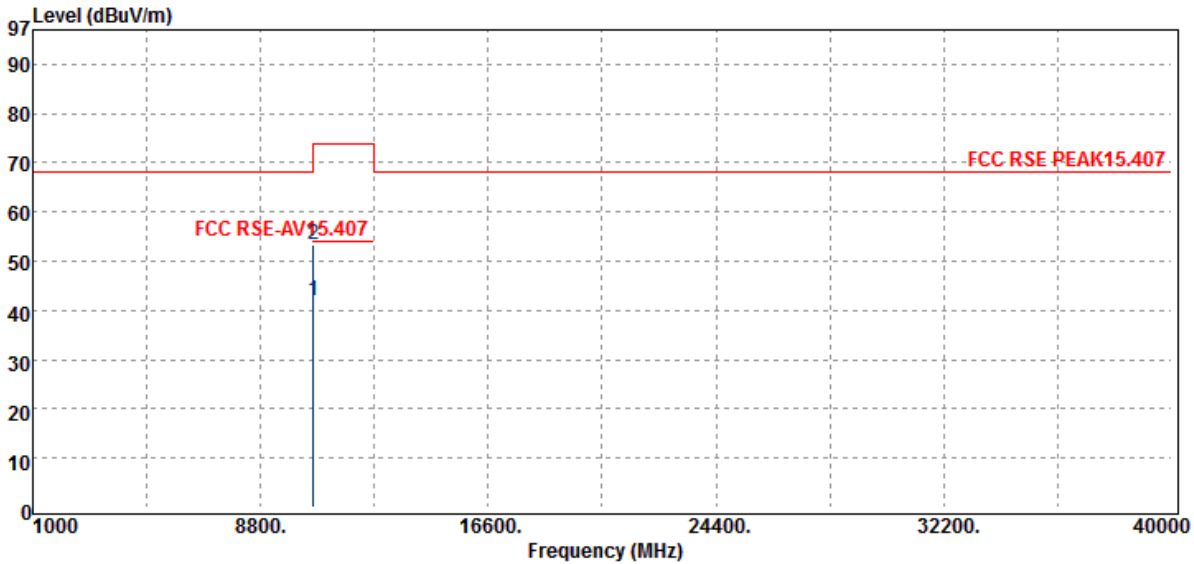
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Operation Band	:802.11n20B2	Test Date	:2018-03-28
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10600.00	H	Average	20.91	21.18	42.09	54.00	-11.91
10600.00	H	Peak	32.19	21.18	53.37	74.00	-20.63

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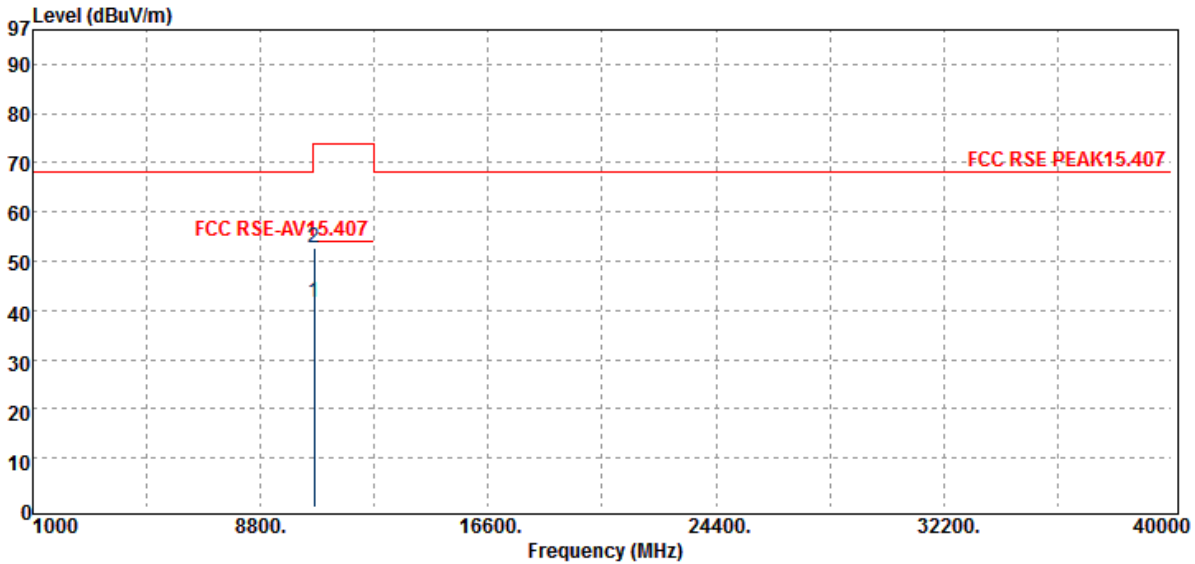
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Operation Band	:802.11n20B2	Test Date	:2018-03-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10640.00	H	Average	20.34	21.24	41.58	54.00	-12.42
10640.00	H	Peak	31.56	21.24	52.80	74.00	-21.20

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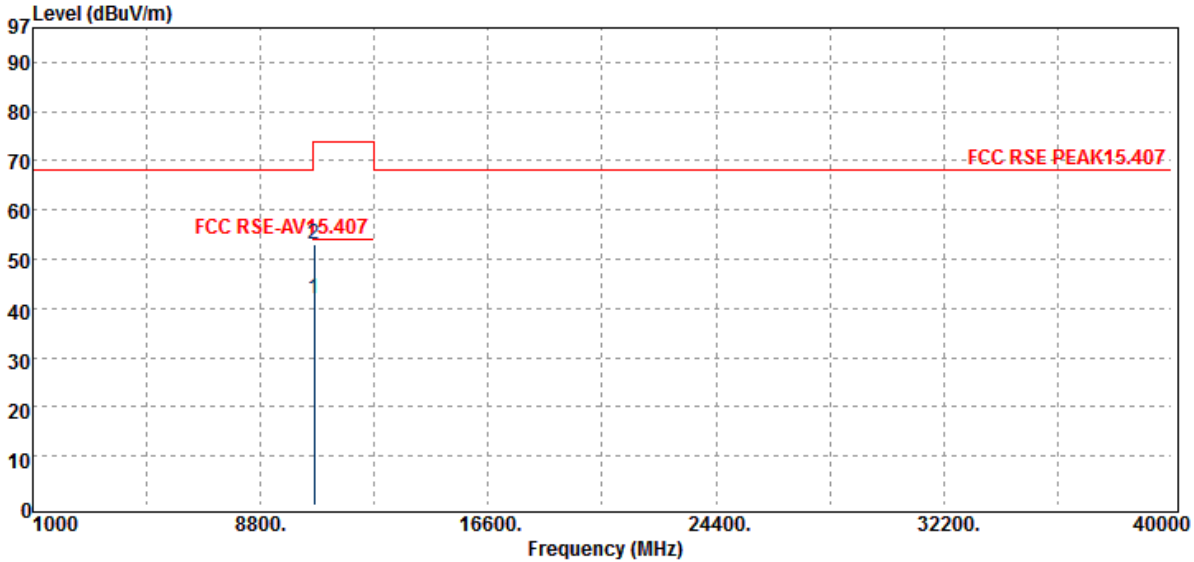
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Operation Band	:802.11n20B2	Test Date	:2018-03-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10640.00	H	Average	20.78	21.24	42.02	54.00	-11.98
10640.00	H	Peak	31.82	21.24	53.06	74.00	-20.94

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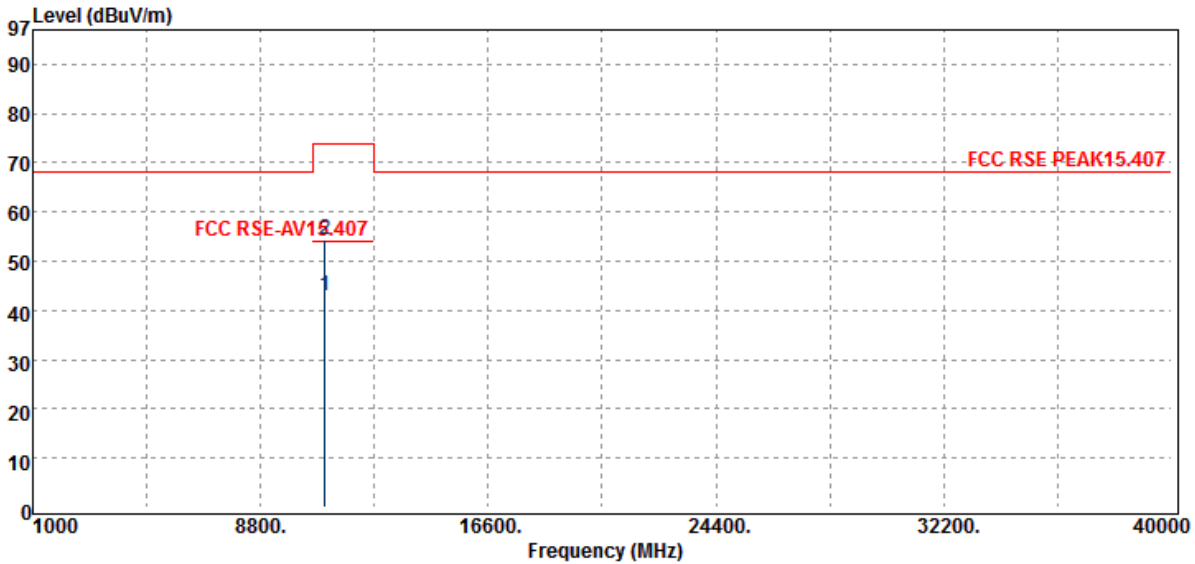
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Band	:802.11n20B3	Test Date	:2018-03-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11000.00	H	Average	20.79	22.17	42.96	54.00	-11.04
11000.00	H	Peak	32.31	22.17	54.48	74.00	-19.52

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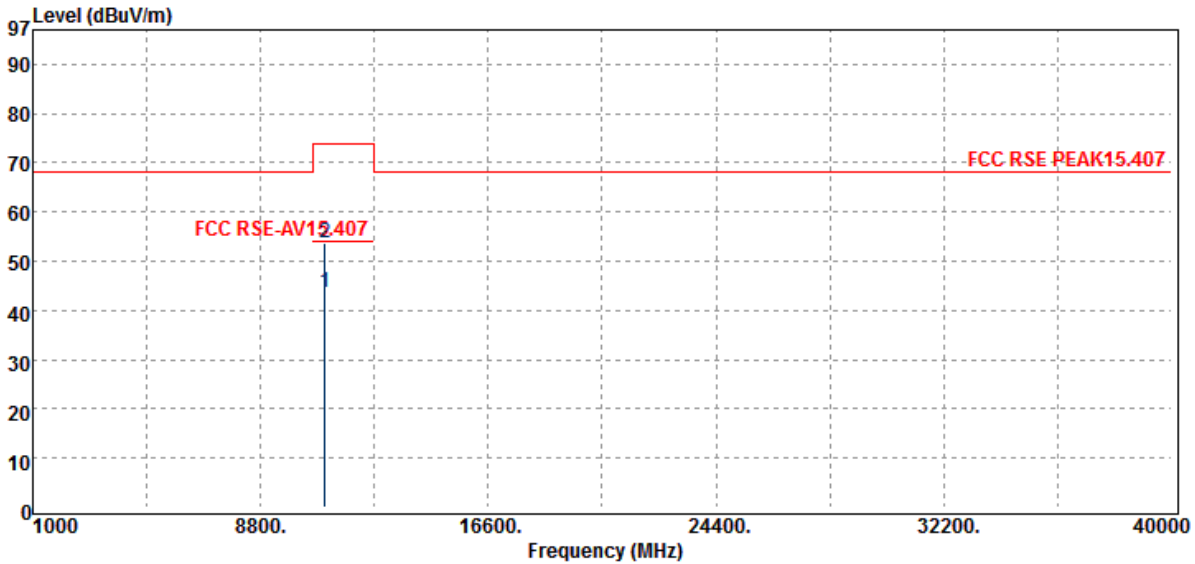
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Operation Band	:802.11n20B3	Test Date	:2018-03-28
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11000.00	H	Average	21.44	22.17	43.61	54.00	-10.39
11000.00	H	Peak	31.41	22.17	53.58	74.00	-20.42

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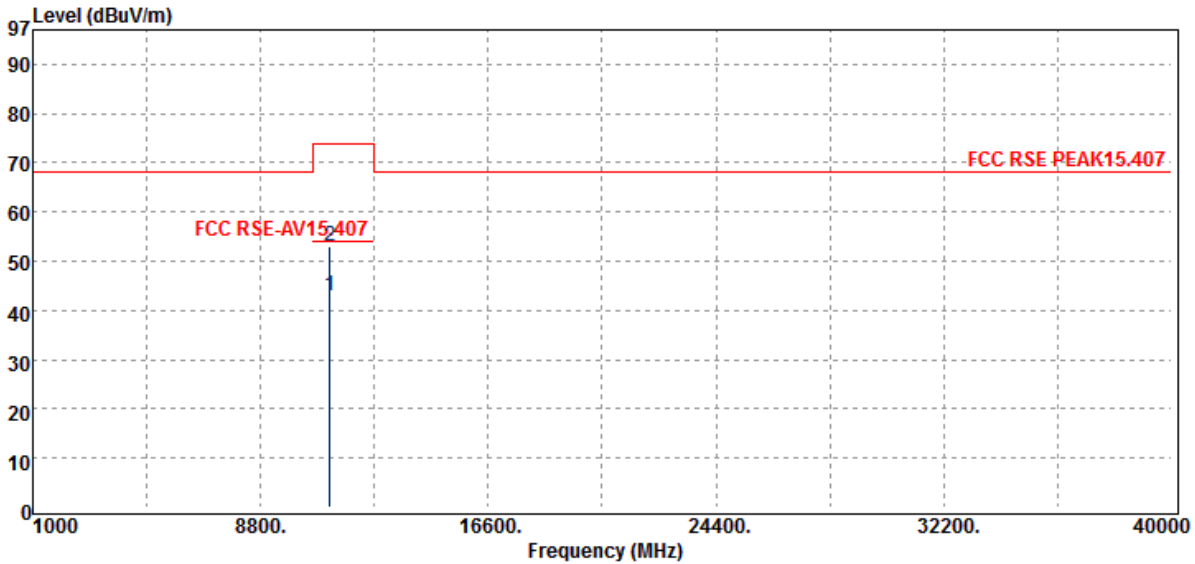
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Operation Band	:802.11n20B3	Test Date	:2018-03-28
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11160.00	H	Average	20.75	22.31	43.06	54.00	-10.94
11160.00	H	Peak	30.75	22.31	53.06	74.00	-20.94

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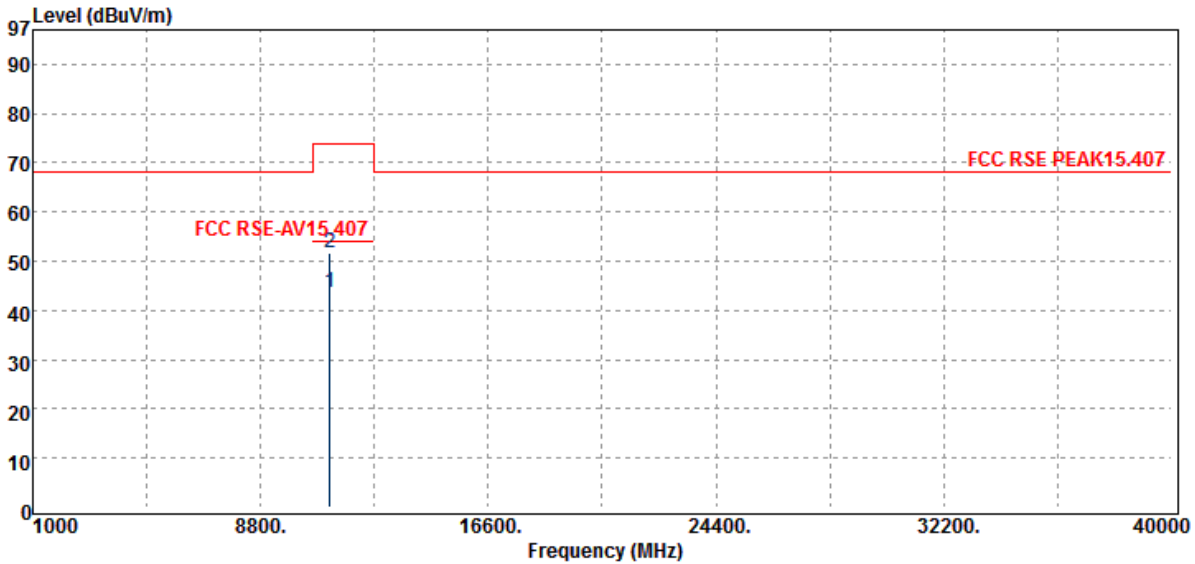
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Operation Band	:802.11n20B3	Test Date	:2018-03-28
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11160.00	H	Average	21.18	22.31	43.49	54.00	-10.51
11160.00	H	Peak	29.36	22.31	51.67	74.00	-22.33

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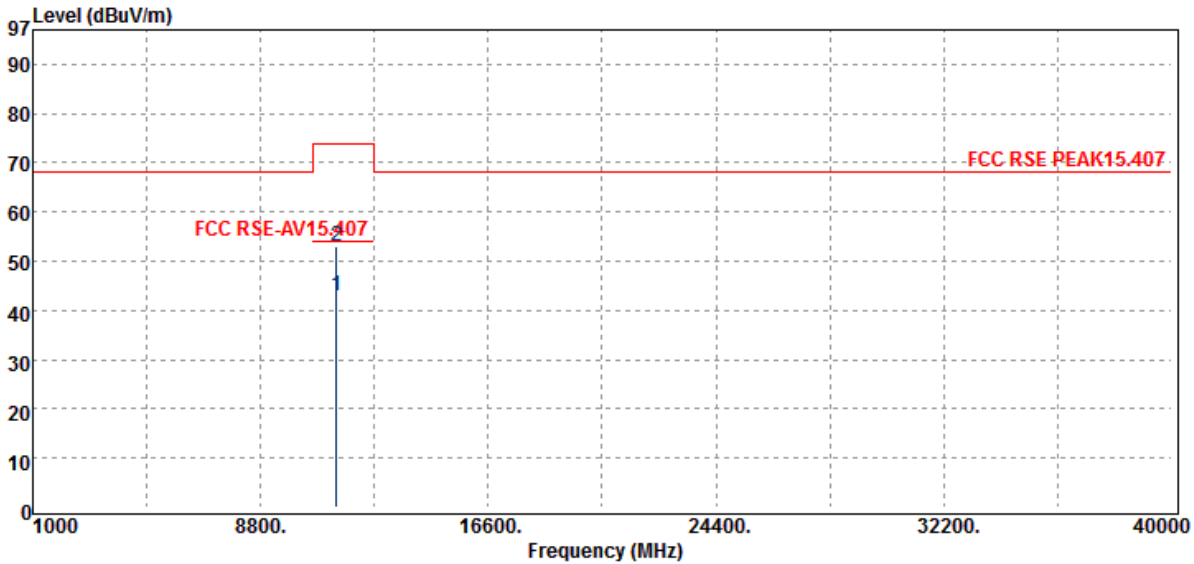
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Operation Band	:802.11n20B3	Test Date	:2018-03-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11400.00	H	Average	20.65	22.42	43.07	54.00	-10.93
11400.00	H	Peak	30.74	22.42	53.16	74.00	-20.84

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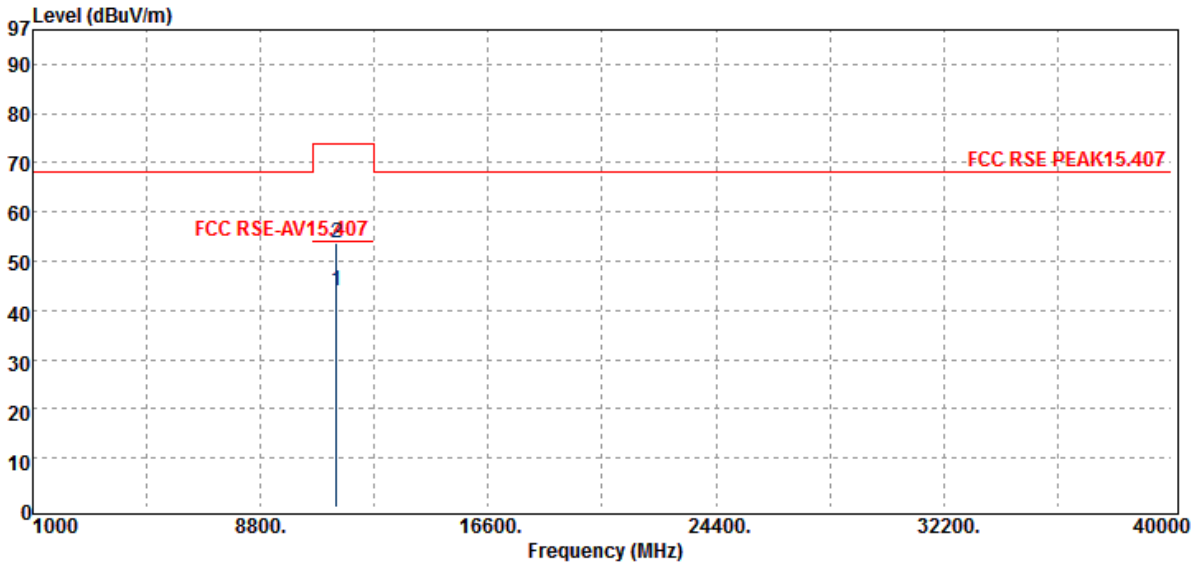
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Operation Band	:802.11n20B3	Test Date	:2018-03-28
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11400.00	H	Average	21.51	22.42	43.93	54.00	-10.07
11400.00	H	Peak	31.29	22.42	53.71	74.00	-20.29

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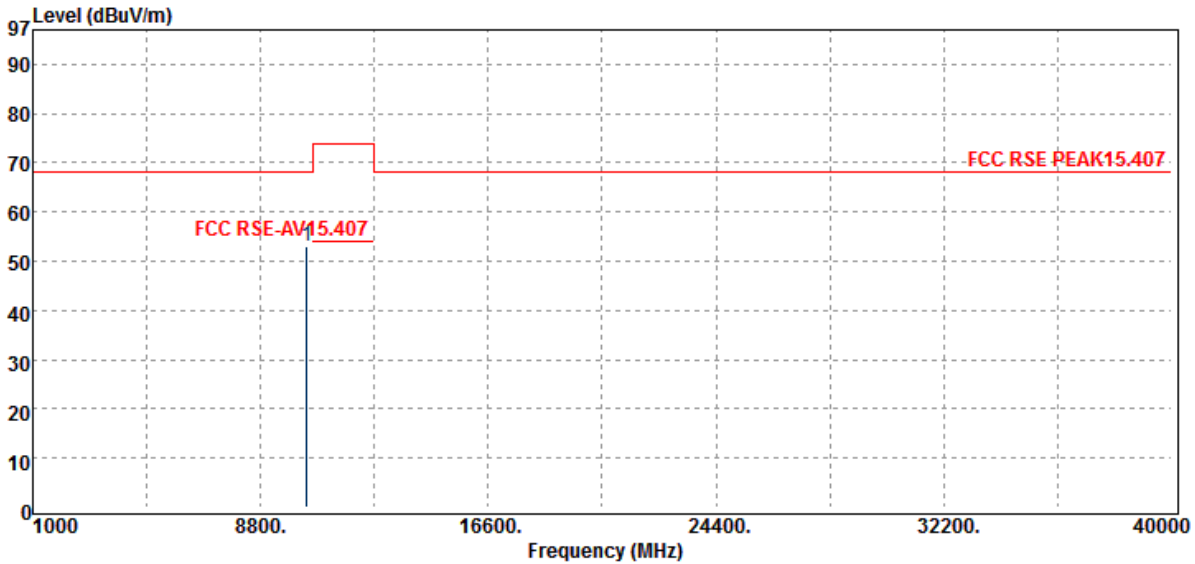
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Band	:802.11n40B1	Test Date	:2018-03-28
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10380.00	H	Peak	32.44	20.48	52.92	68.30	-15.38

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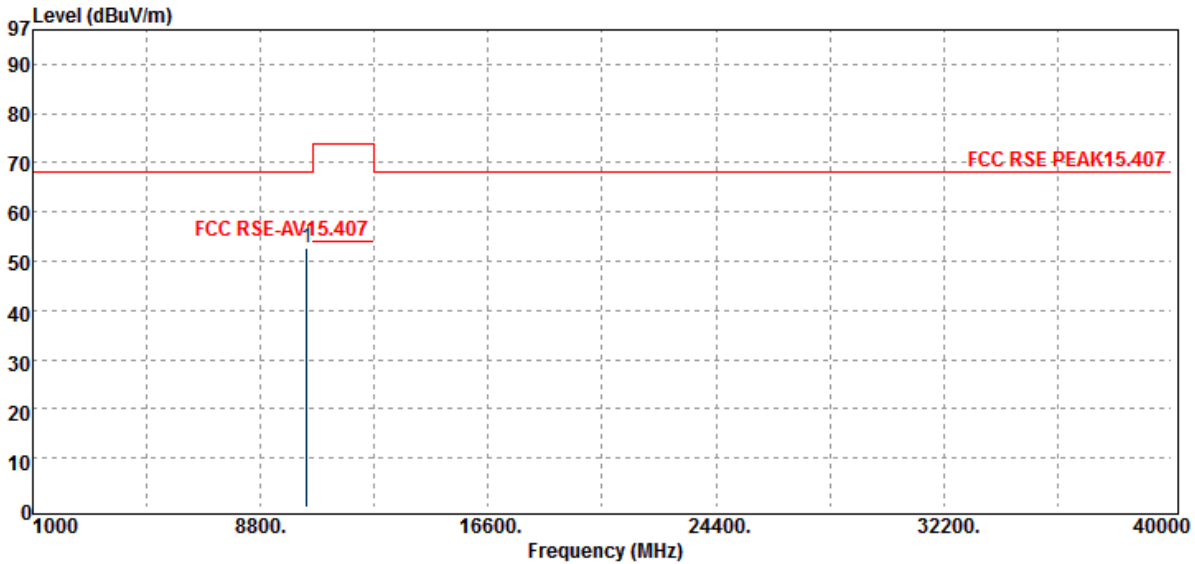
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Operation Band	:802.11n40B1	Test Date	:2018-03-28
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	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	Safe Margin dB
10380.00	H	Peak	32.19	20.48	52.67	68.30	-15.63

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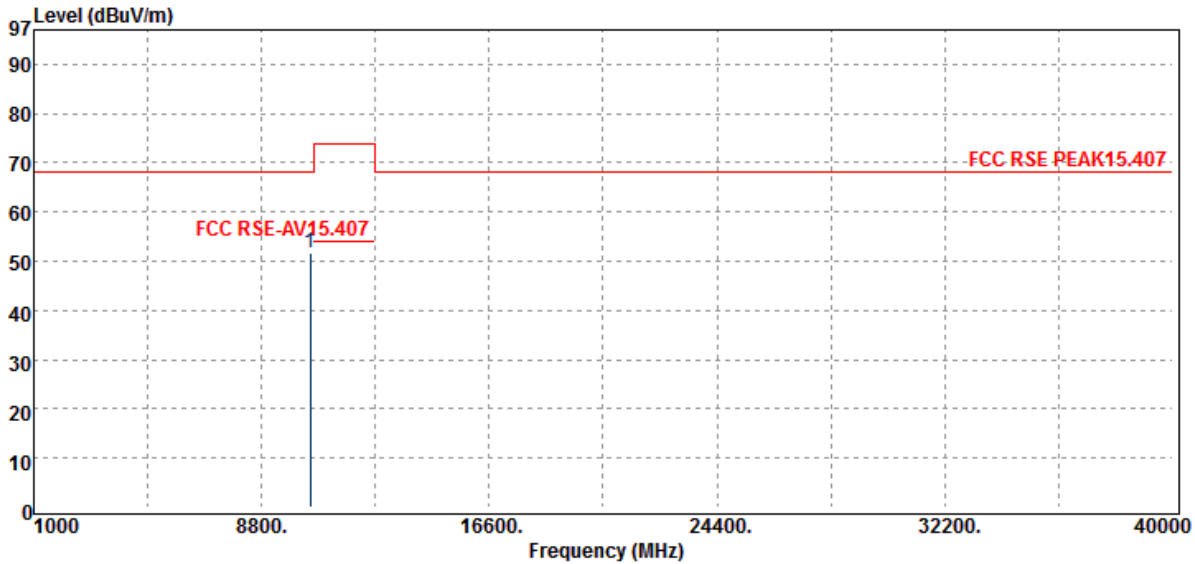
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Operation Band	:802.11n40B1	Test Date	:2018-03-28
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	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	Safe Margin dB
10460.00	H	Peak	30.75	20.77	51.52	68.30	-16.78

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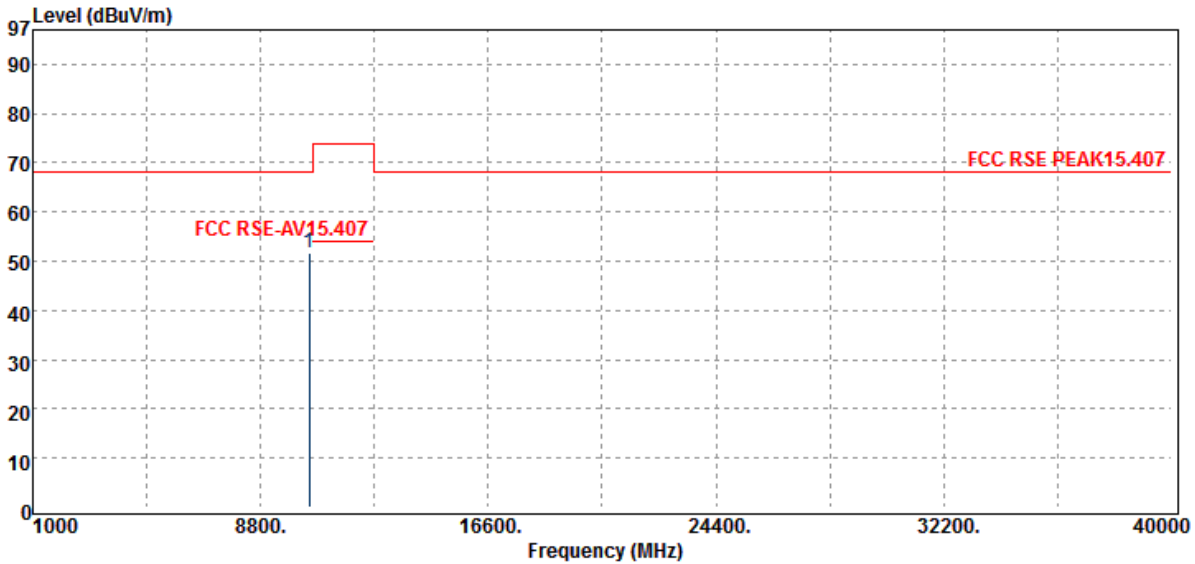
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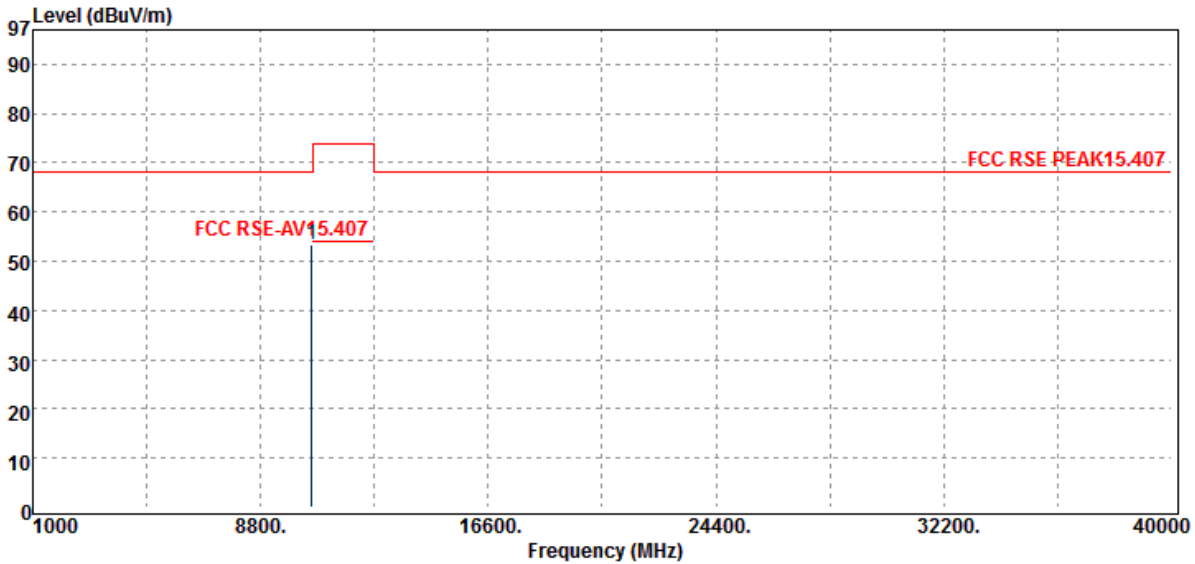
Operation Band	:802.11n40B1	Test Date	:2018-03-28
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10460.00	H	Peak	30.81	20.77	51.58	68.30	-16.72

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Operation Band	:802.11n40B2	Test Date	:2018-03-28
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10540.00	H	Peak	32.44	20.82	53.26	68.30	-15.04

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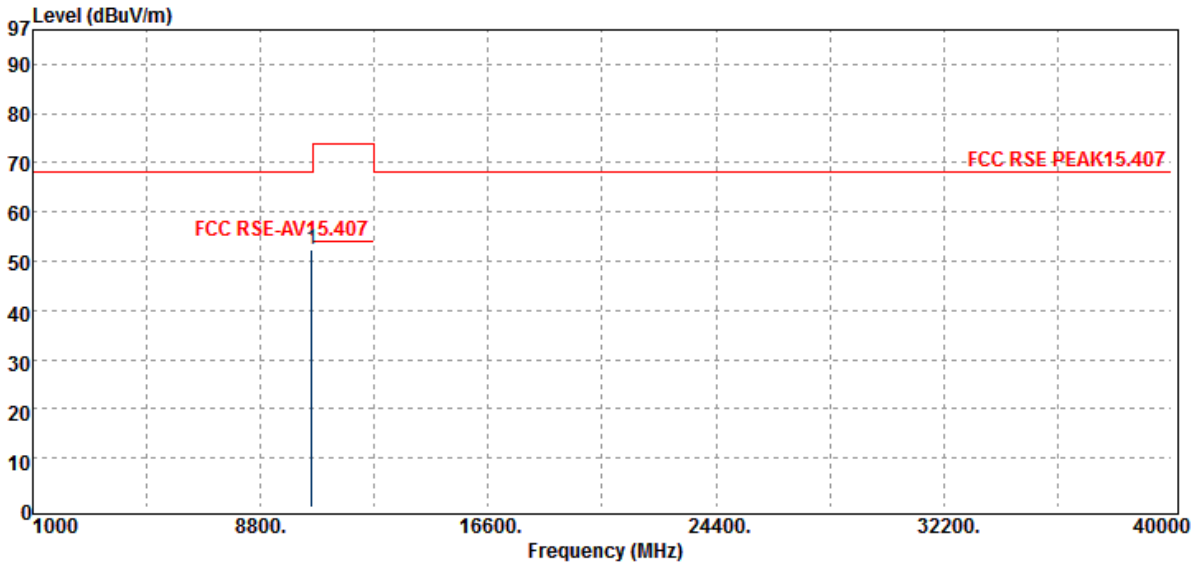
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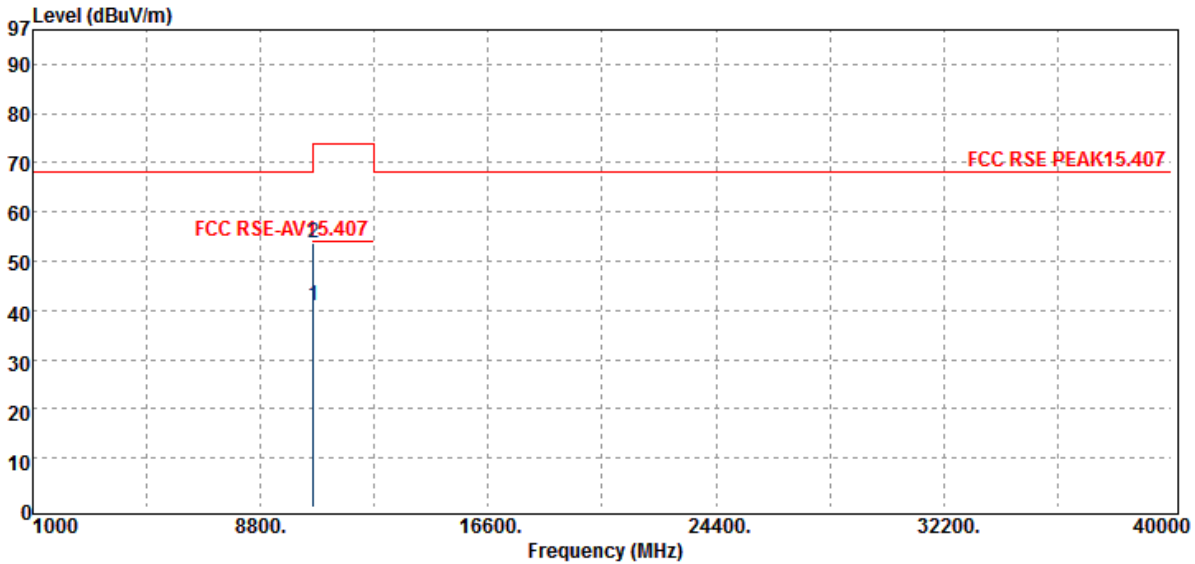
Operation Band	:802.11n40B2	Test Date	:2018-03-28
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
10540.00	H	Peak	31.49	20.82	52.31	68.30	-15.99

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Operation Band	:802.11n40B2	Test Date	:2018-03-28
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	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	Safe Margin dB
10620.00	H	Average	19.79	21.21	41.00	54.00	-13.00
10620.00	H	Peak	32.61	21.21	53.82	74.00	-20.18

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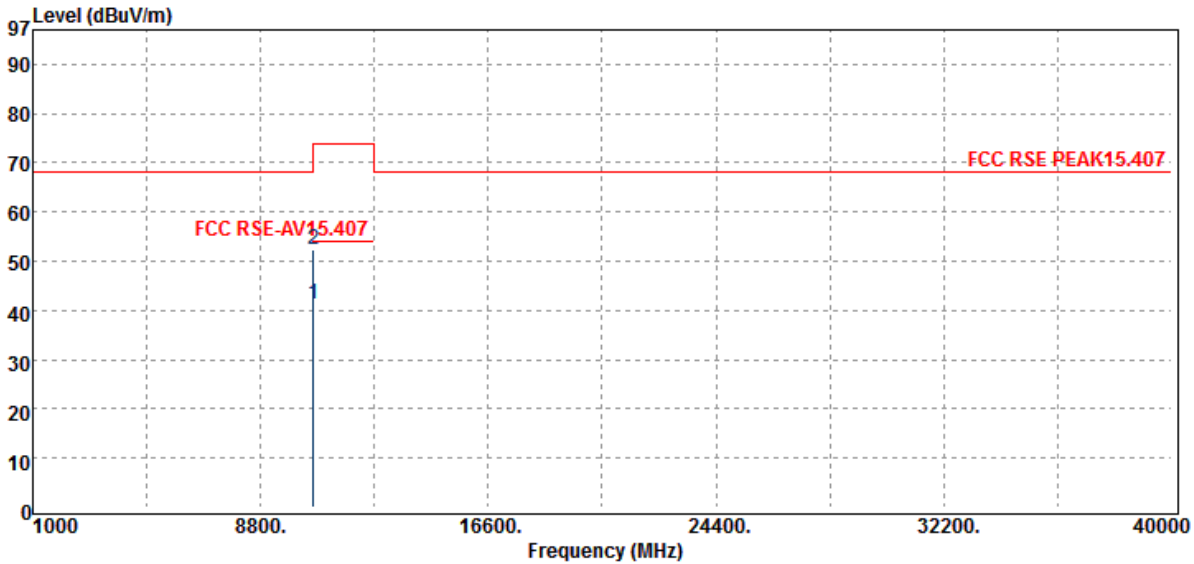
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Operation Band	:802.11n40B2	Test Date	:2018-03-28
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10620.00	H	Average	20.19	21.21	41.40	54.00	-12.60
10620.00	H	Peak	31.31	21.21	52.52	74.00	-21.48

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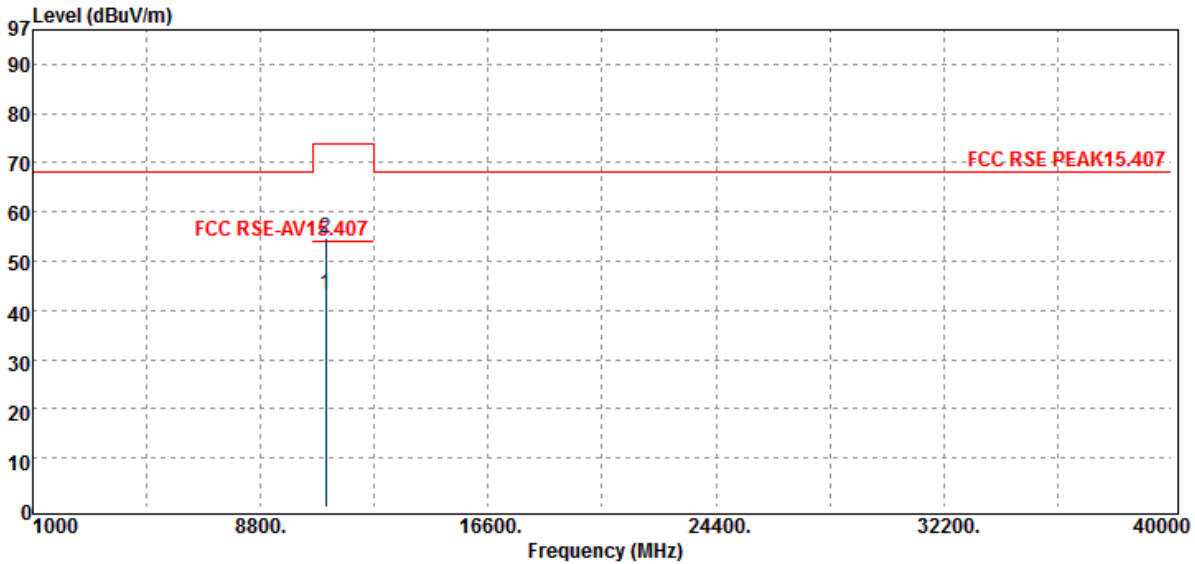
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Band	:802.11n40B3	Test Date	:2018-03-28
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11020.00	H	Average	21.01	22.28	43.29	54.00	-10.71
11020.00	H	Peak	32.30	22.28	54.58	74.00	-19.42

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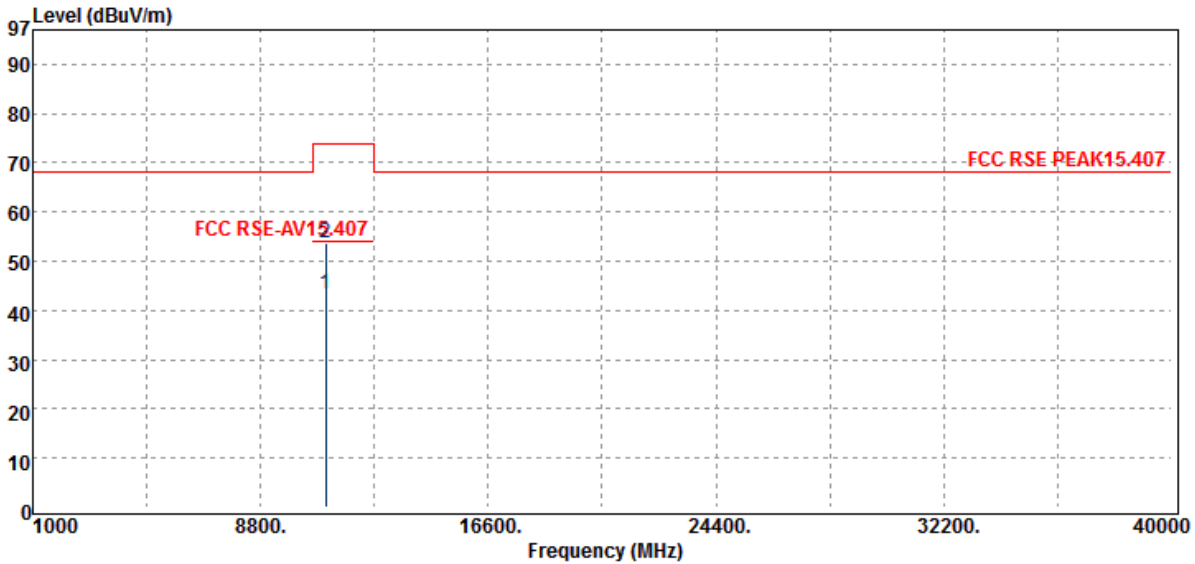
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Operation Band	:802.11n40B3	Test Date	:2018-03-28
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11020.00	H	Average	21.06	22.28	43.34	54.00	-10.66
11020.00	H	Peak	31.28	22.28	53.56	74.00	-20.44

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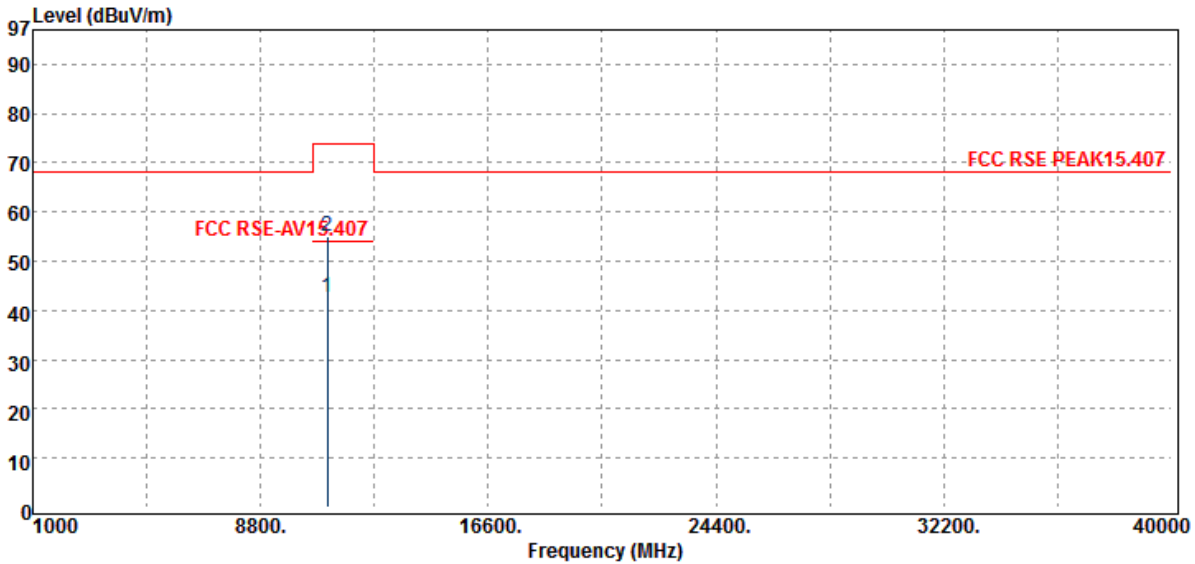
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Operation Band	:802.11n40B3	Test Date	:2018-03-28
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11100.00	H	Average	20.22	22.38	42.60	54.00	-11.40
11100.00	H	Peak	32.81	22.38	55.19	74.00	-18.81

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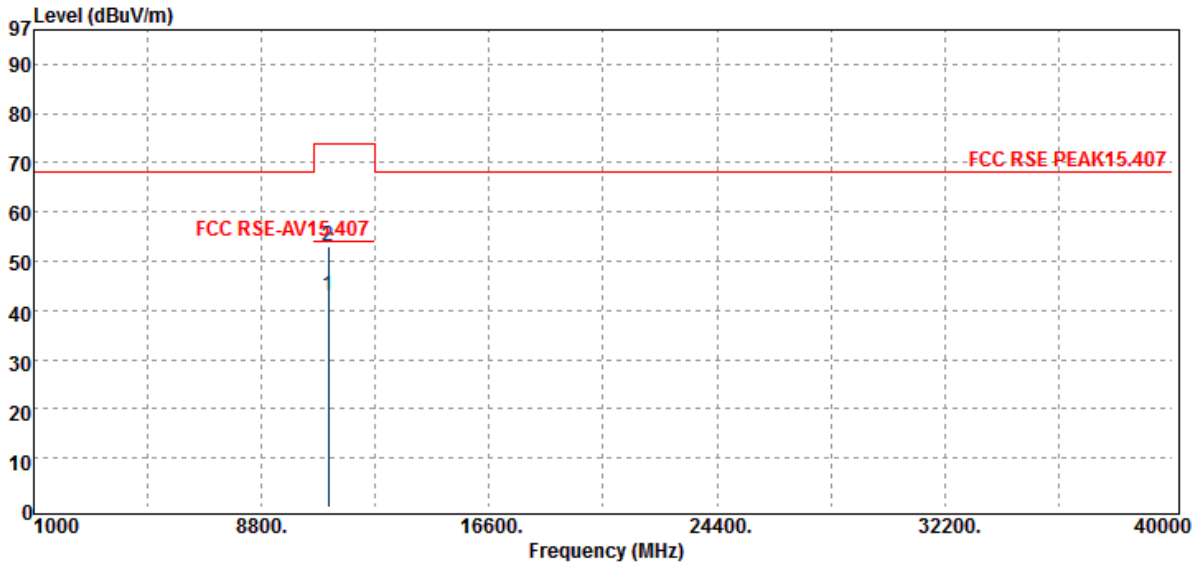
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Operation Band	:802.11n40B3	Test Date	:2018-03-28
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11100.00	H	Average	20.66	22.38	43.04	54.00	-10.96
11100.00	H	Peak	30.79	22.38	53.17	74.00	-20.83

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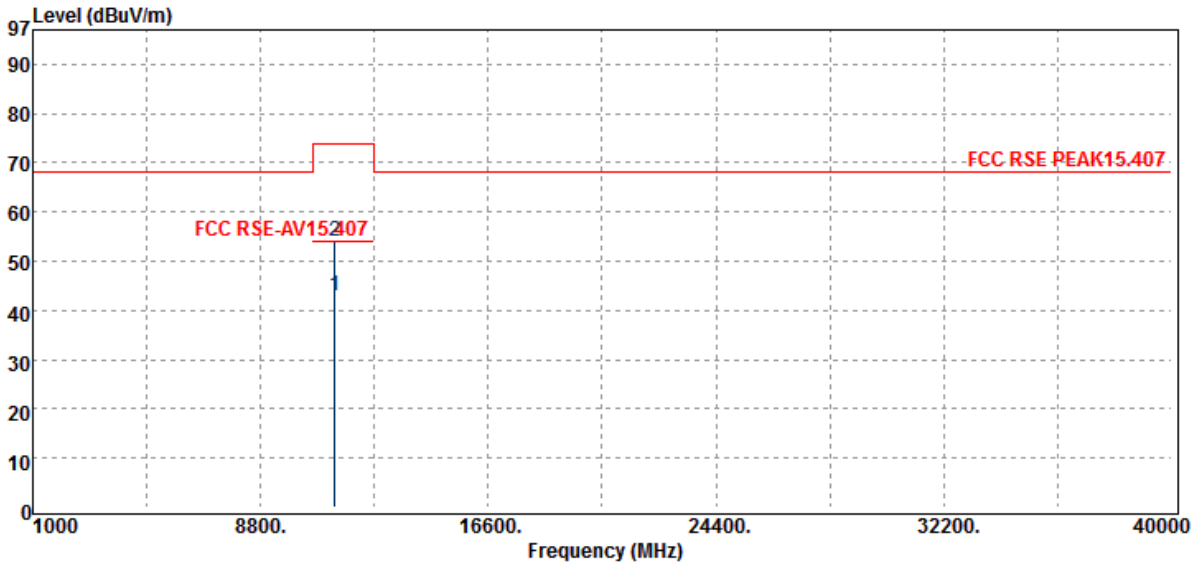
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Operation Band	:802.11n40B3	Test Date	:2018-03-28
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11340.00	H	Average	20.48	22.34	42.82	54.00	-11.18
11340.00	H	Peak	31.80	22.34	54.14	74.00	-19.86

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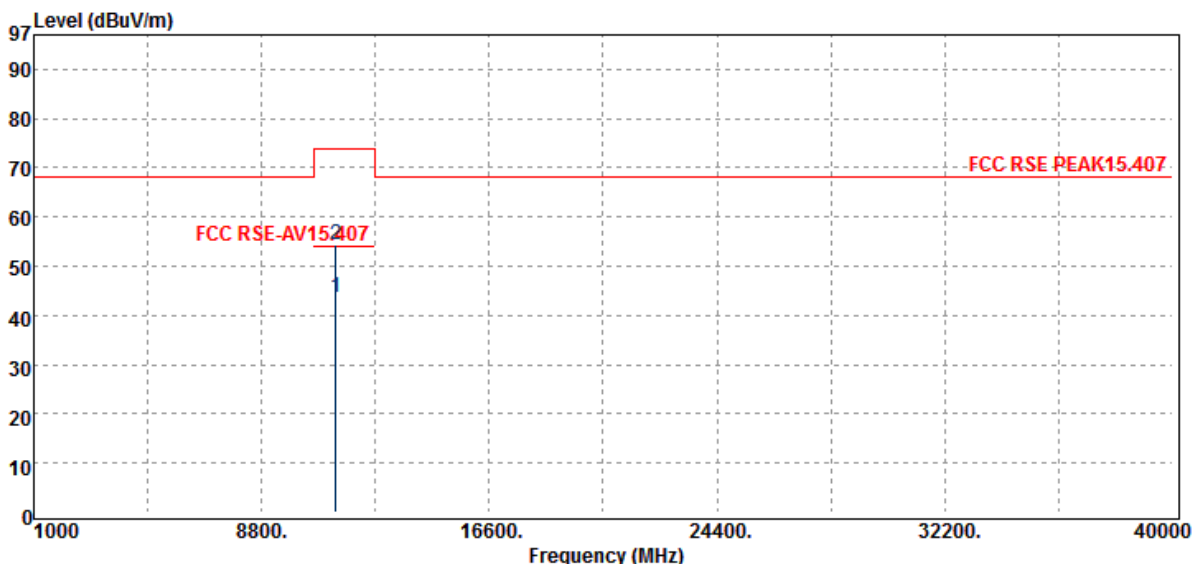
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Operation Band	:802.11n40B3	Test Date	:2018-03-28
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11340.00	H	Average	21.32	22.34	43.66	54.00	-10.34
11340.00	H	Peak	32.12	22.34	54.46	74.00	-19.54

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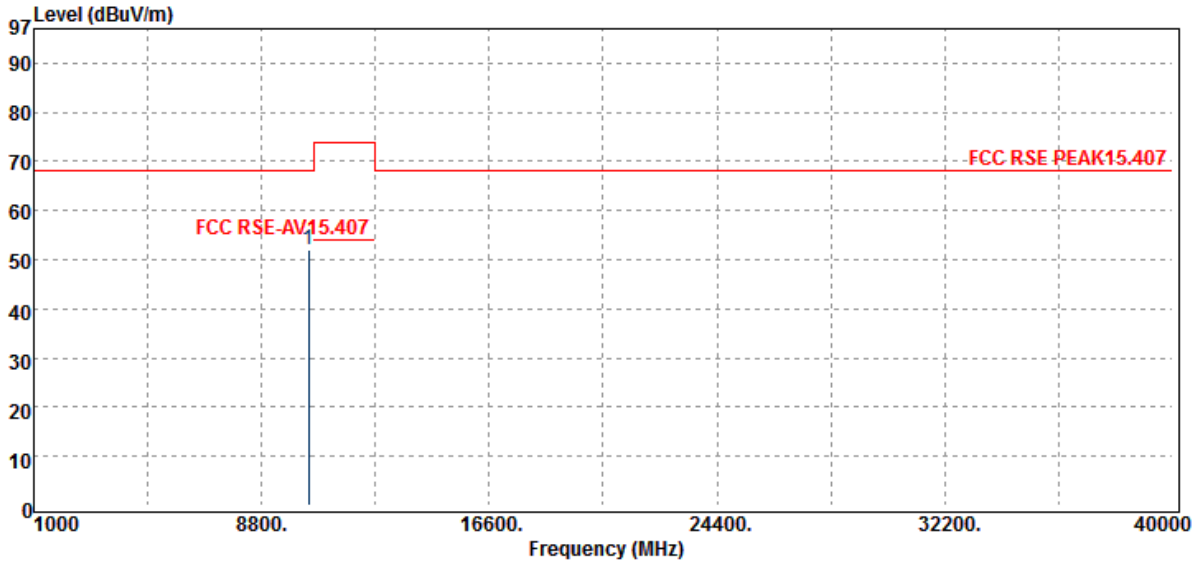
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Band	:802.11ac80B1	Test Date	:2018-03-28
Fundamental Frequency	:5210 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10420.00	H	Peak	31.31	20.69	52.00	68.30	-16.30

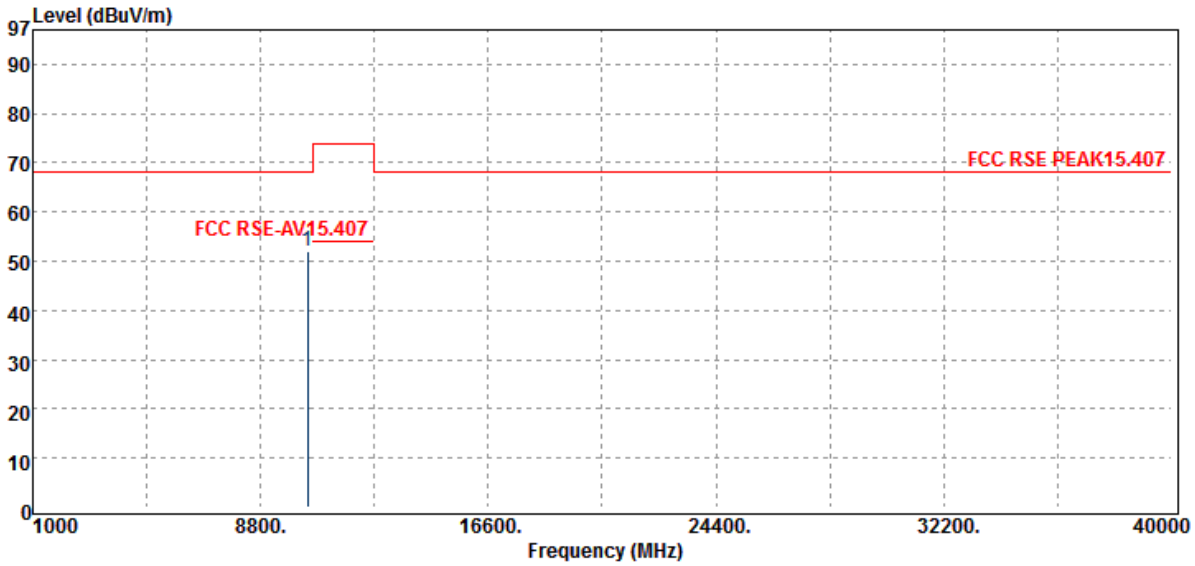
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Operation Band :802.11ac80B1
 Fundamental Frequency :5210 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2018-03-28
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Safe Margin dB
10420.00	H	Peak	31.43	20.69	52.12	68.30	-16.18

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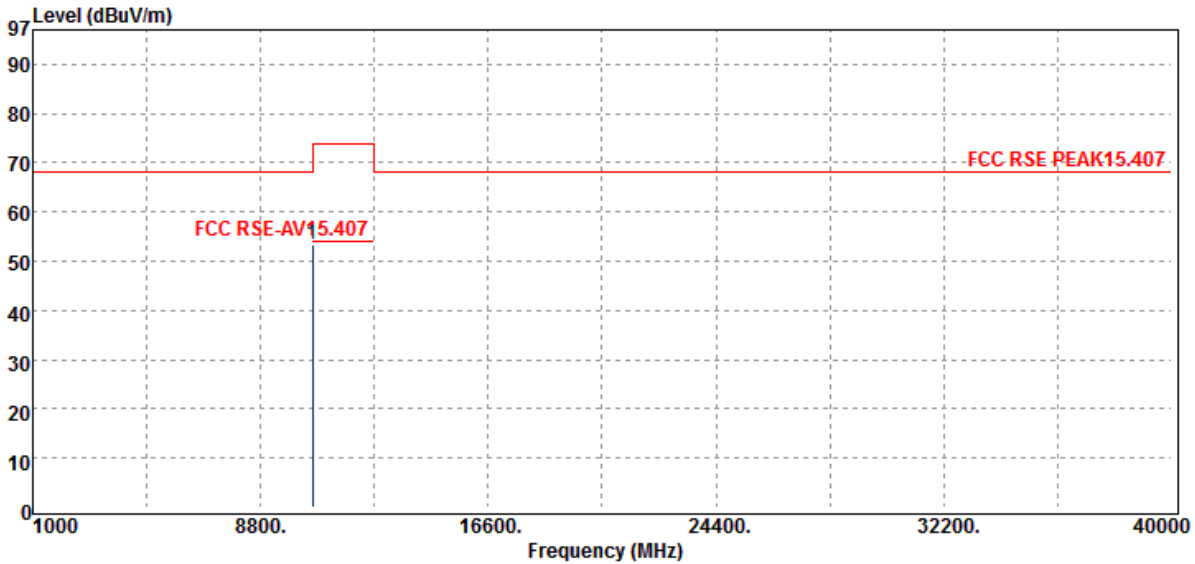
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Band	:802.11ac80B2	Test Date	:2018-03-28
Fundamental Frequency	:5290 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
10580.00	H	Peak	32.41	21.03	53.44	68.30	-14.86

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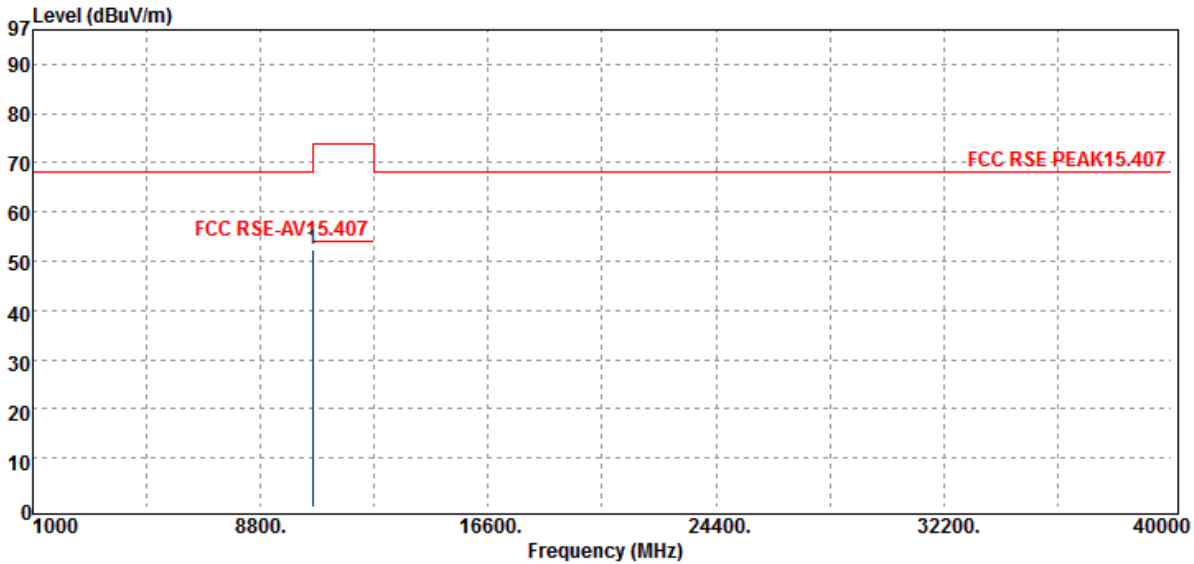
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Operation Band :802.11ac80B2
Fundamental Frequency :5290 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :H Plane

Test Date :2018-03-28
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	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	Safe Margin dB
10580.00	H	Peak	31.22	21.03	52.25	68.30	-16.05

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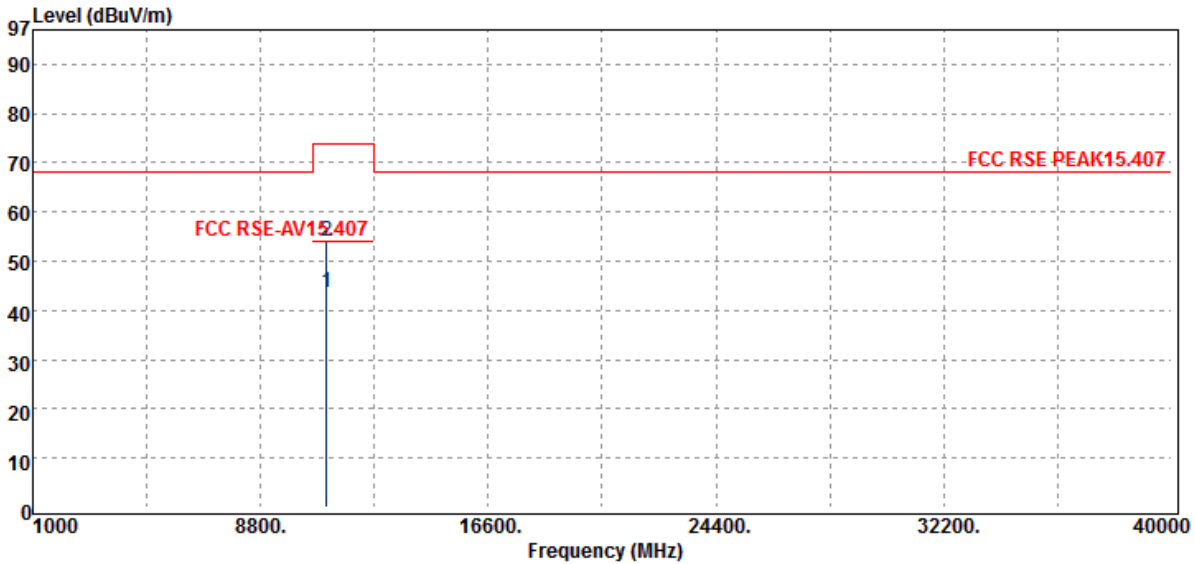
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Band	:802.11ac80B3	Test Date	:2018-03-28
Fundamental Frequency	:5530 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11060.00	H	Average	21.07	22.41	43.48	54.00	-10.52
11060.00	H	Peak	31.71	22.41	54.12	74.00	-19.88

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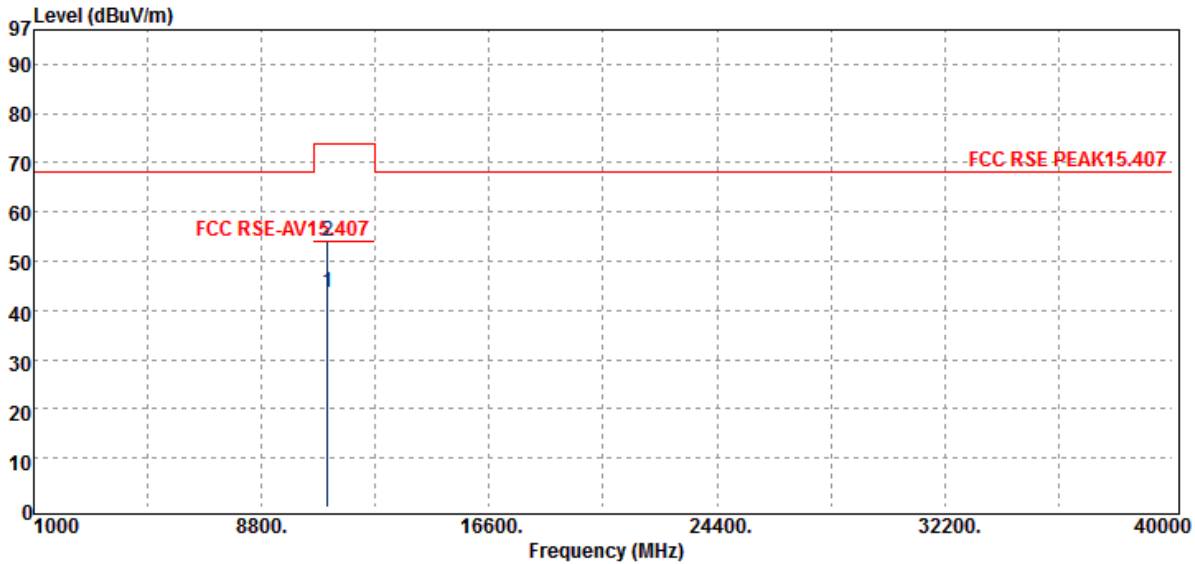
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Operation Band :802.11ac80B3
Fundamental Frequency :5530 MHz
Operation Mode :Tx CH LOW
EUT Pol. :H Plane

Test Date :2018-03-28
Temp./Humi. :23 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11060.00	H	Average	21.19	22.41	43.60	54.00	-10.40
11060.00	H	Peak	31.51	22.41	53.92	74.00	-20.08

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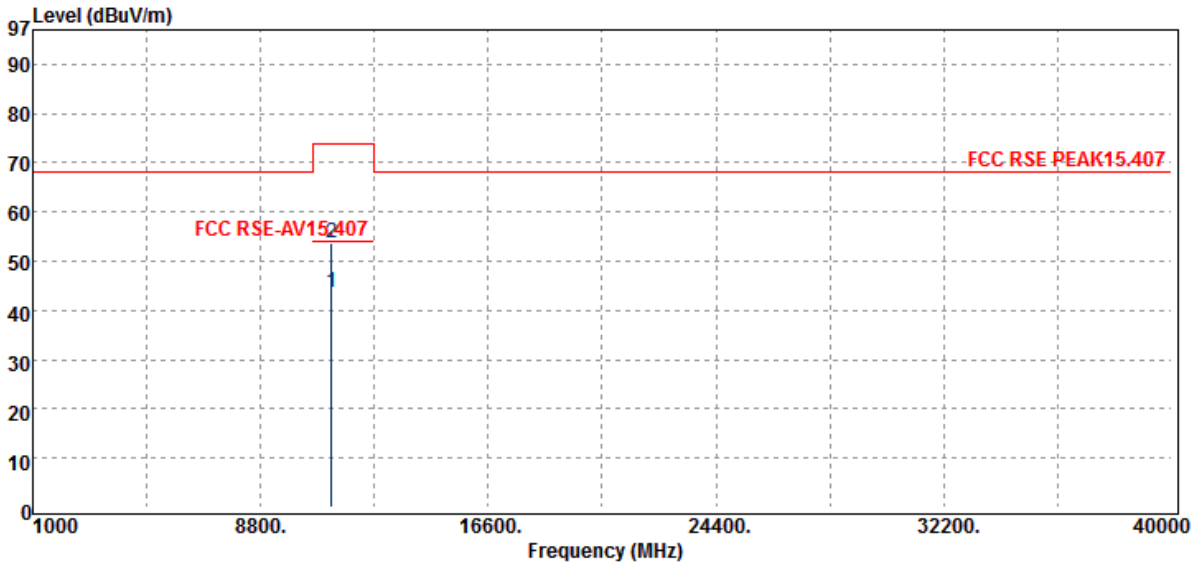
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Operation Band	:802.11ac80B3	Test Date	:2018-03-28
Fundamental Frequency	:5610 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11220.00	H	Average	21.19	22.36	43.55	54.00	-10.45
11220.00	H	Peak	31.34	22.36	53.70	74.00	-20.30

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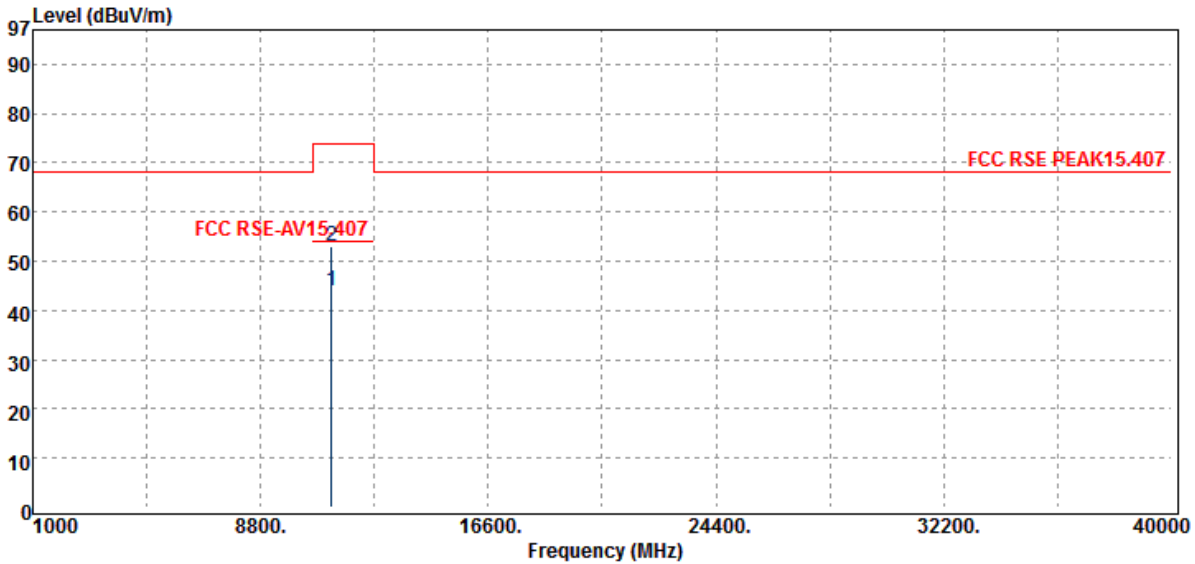
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Operation Band	:802.11ac80B3	Test Date	:2018-03-28
Fundamental Frequency	:5610 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
11220.00	H	Average	21.46	22.36	43.82	54.00	-10.18
11220.00	H	Peak	30.77	22.36	53.13	74.00	-20.87

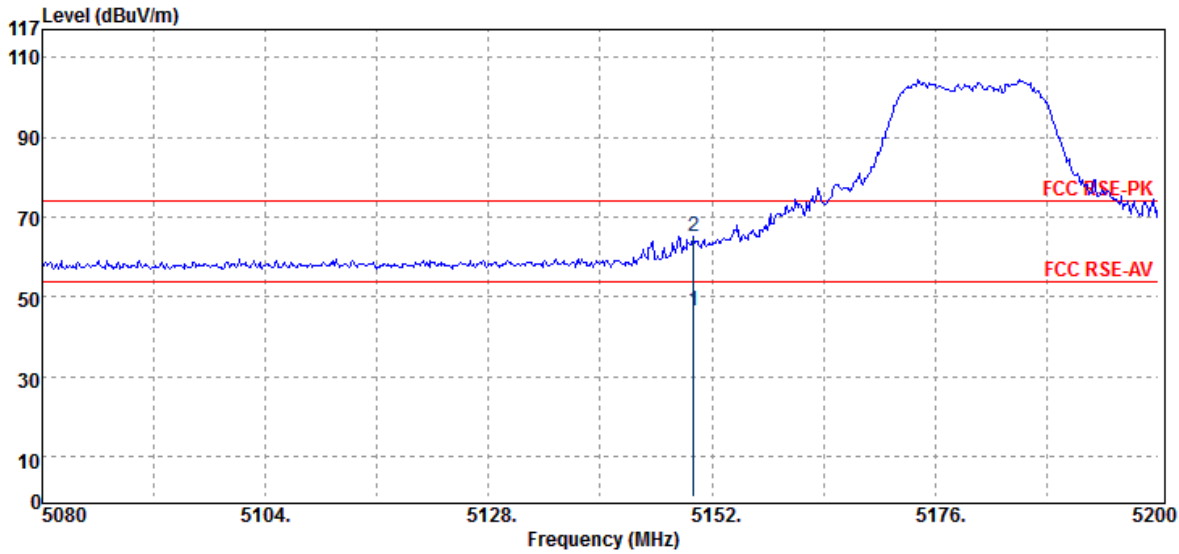
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Band Edge falling to restricted band

802.11a mode

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

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	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
5150.00	E	Average	38.35	8.32	46.67	54.00	-7.33
5150.00	E	Peak	56.80	8.32	65.12	74.00	-8.88

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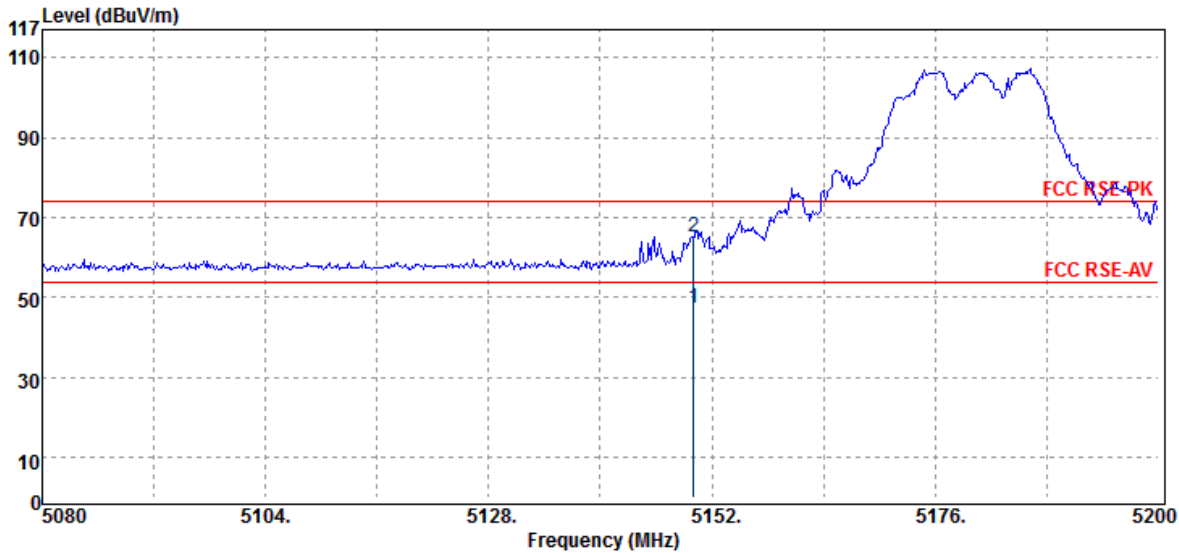
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Operation Band :802.11aB1
 Fundamental Frequency :5180 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	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
5150.00	E	Average	38.91	8.32	47.23	54.00	-6.77
5150.00	E	Peak	56.80	8.32	65.12	74.00	-8.88

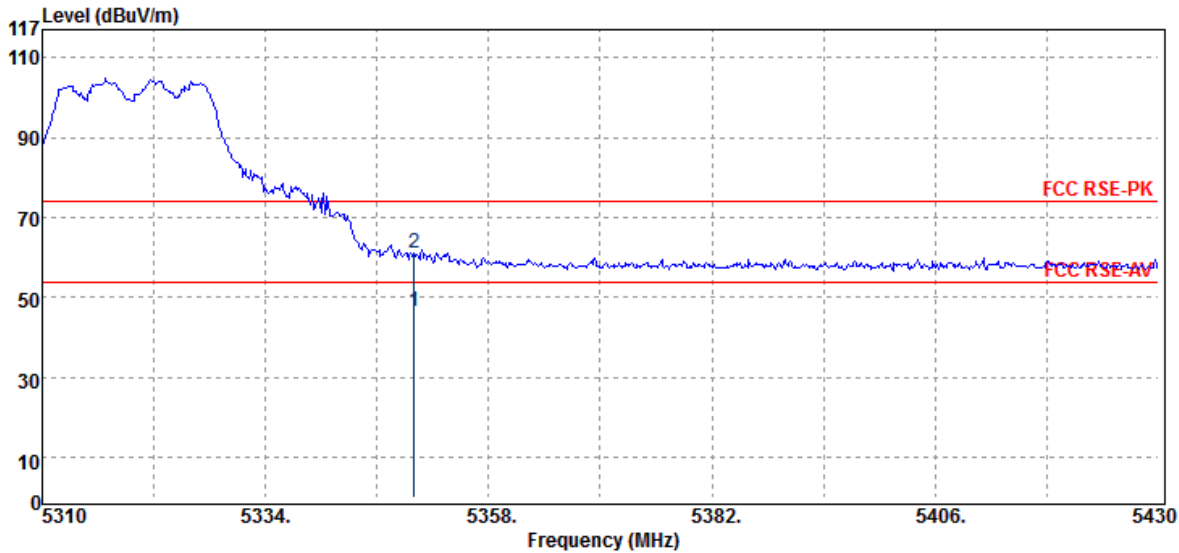
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Operation Band :802.11aB2
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	E	Average	38.04	8.63	46.67	54.00	-7.33
5350.00	E	Peak	52.56	8.63	61.19	74.00	-12.81

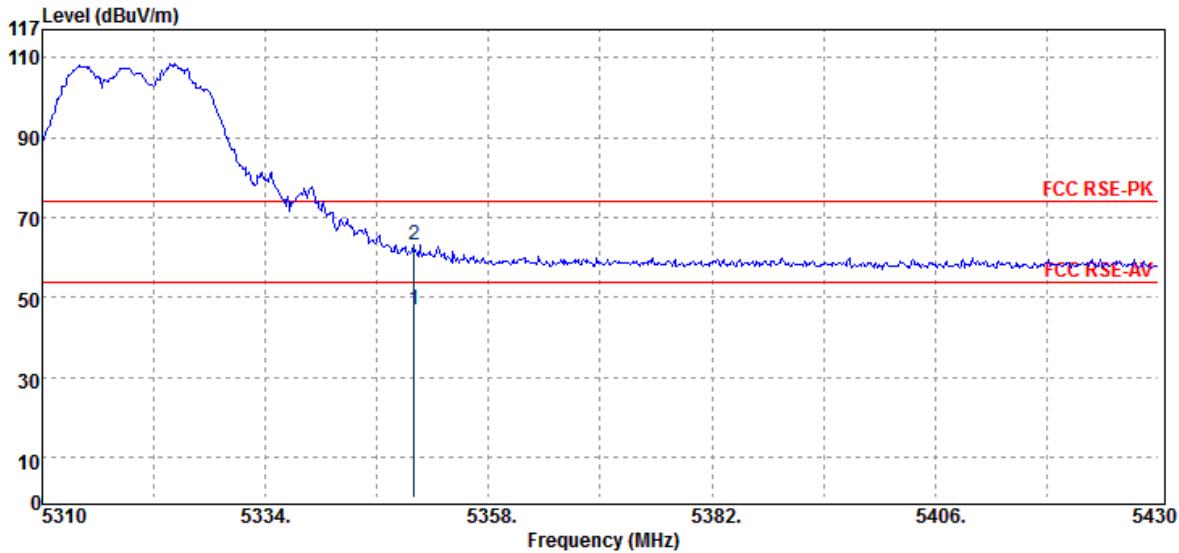
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Operation Band :802.11aB2
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	E	Average	38.51	8.63	47.14	54.00	-6.86
5350.00	E	Peak	54.57	8.63	63.20	74.00	-10.80

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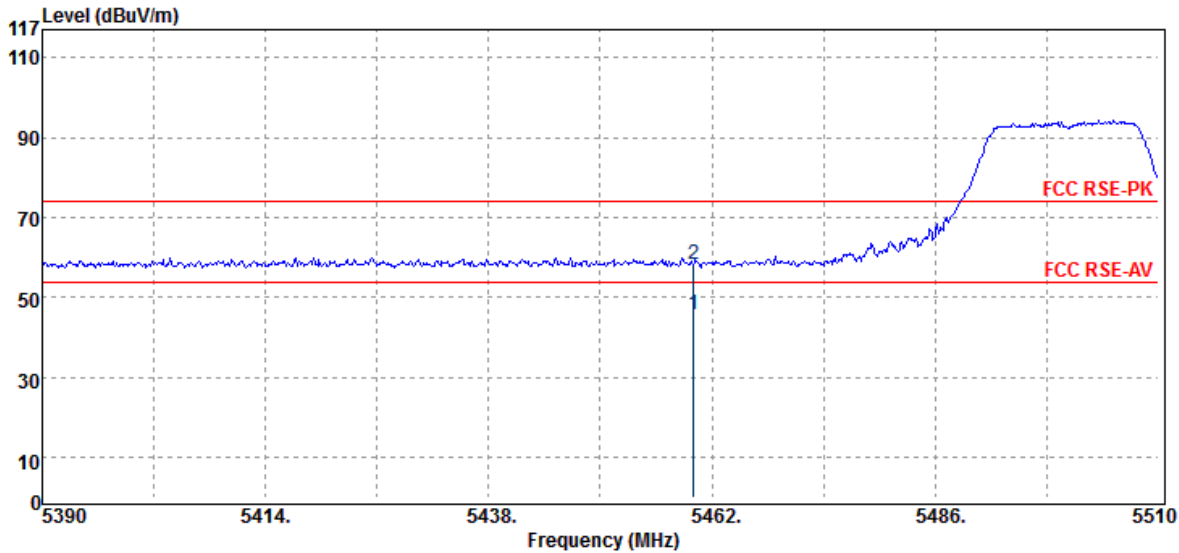
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Operation Band :802.11aB3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	E	Average	37.02	8.75	45.77	54.00	-8.23
5460.00	E	Peak	49.60	8.75	58.35	74.00	-15.65

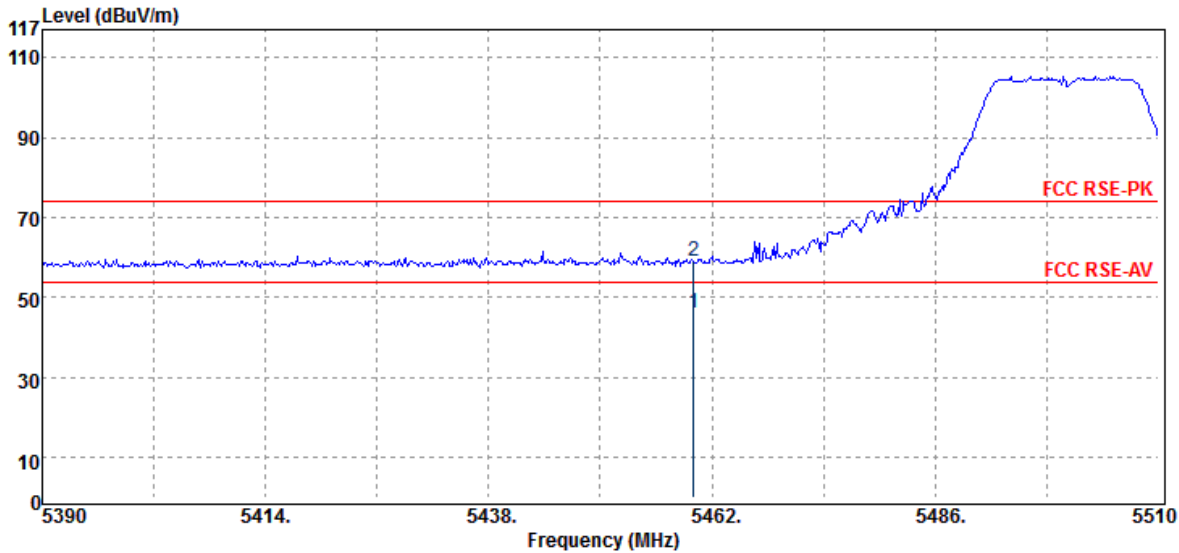
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Operation Band :802.11aB3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



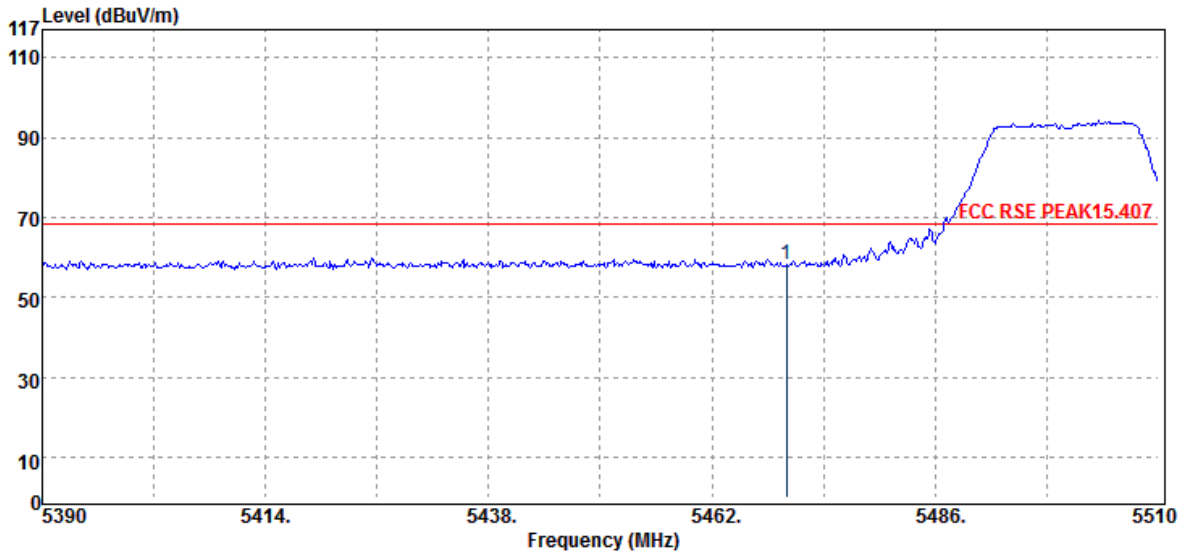
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	E	Average	37.51	8.75	46.26	54.00	-7.74
5460.00	E	Peak	50.25	8.75	59.00	74.00	-15.00

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Operation Band	:802.11aB3	Test Date	:2018-03-27
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW RSE	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



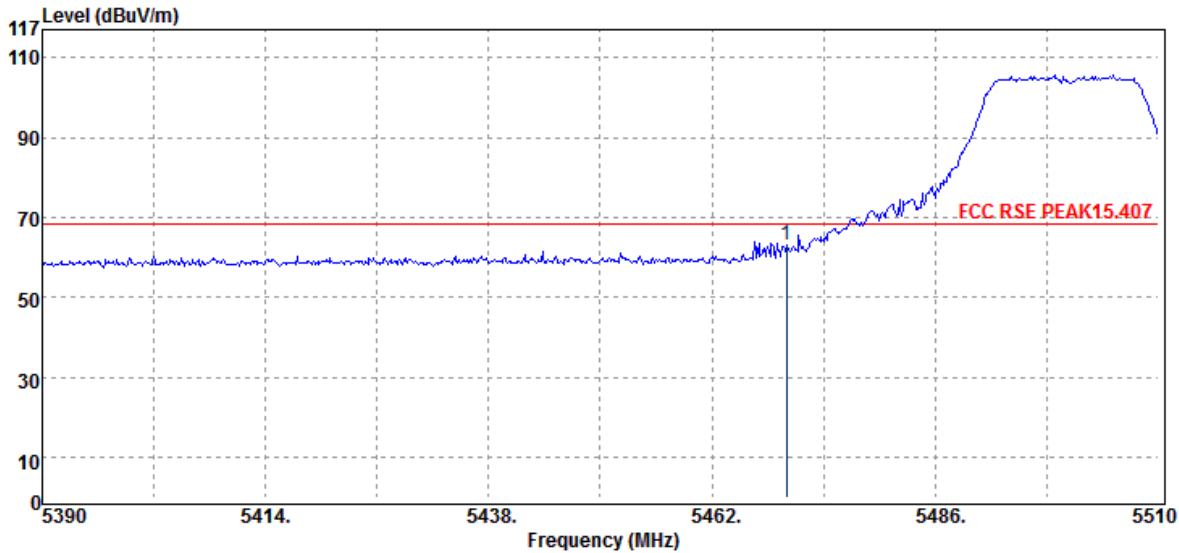
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5470.00	E	Peak	49.48	8.74	58.22	68.30	-10.08

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Operation Band	:802.11aB3	Test Date	:2018-03-27
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW RSE	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	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
5470.00	E	Peak	54.26	8.74	63.00	68.30	-5.30

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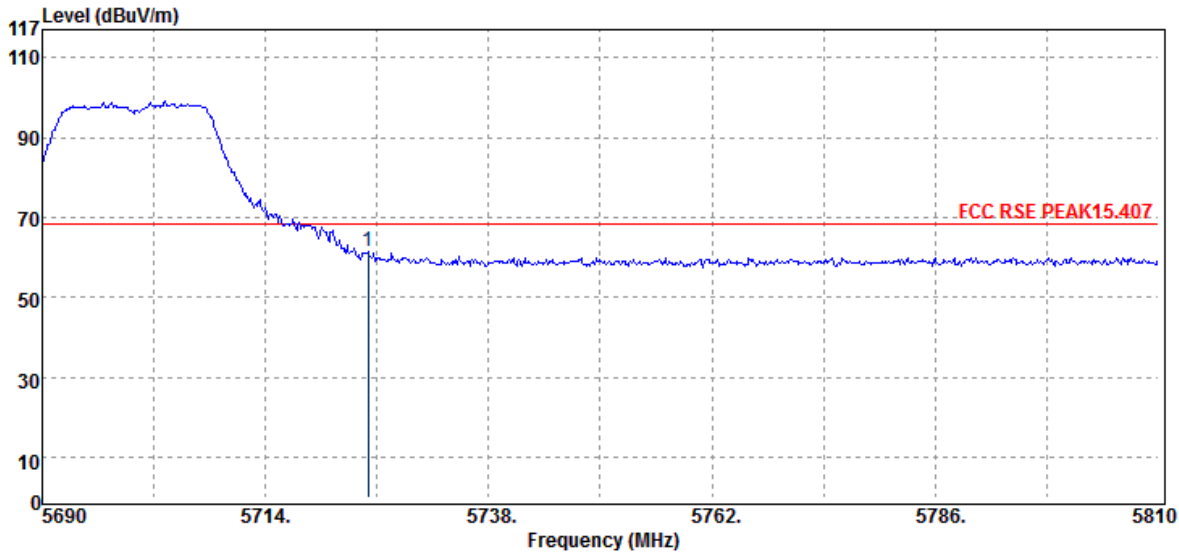
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Operation Band	:802.11aB3	Test Date	:2018-03-27
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH RSE	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	E	Peak	52.07	9.44	61.51	68.30	-6.79

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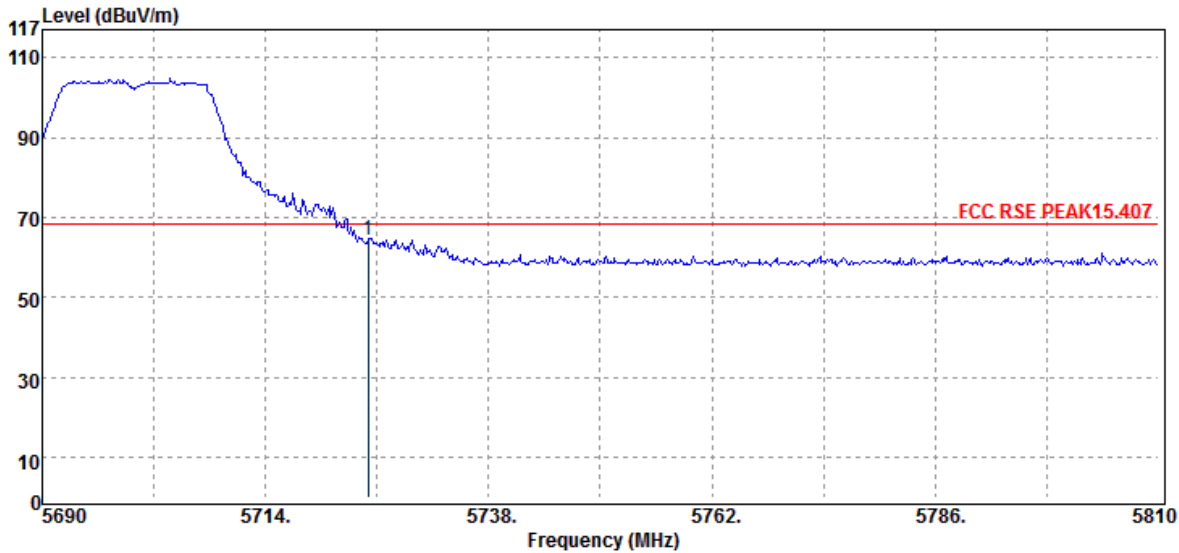
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Operation Band :802.11aB3
 Fundamental Frequency :5700 MHz
 Operation Mode :Bandedge CH HIGH RSE
 EUT Pol. :H Plane

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	E	Peak	54.86	9.44	64.30	68.30	-4.00

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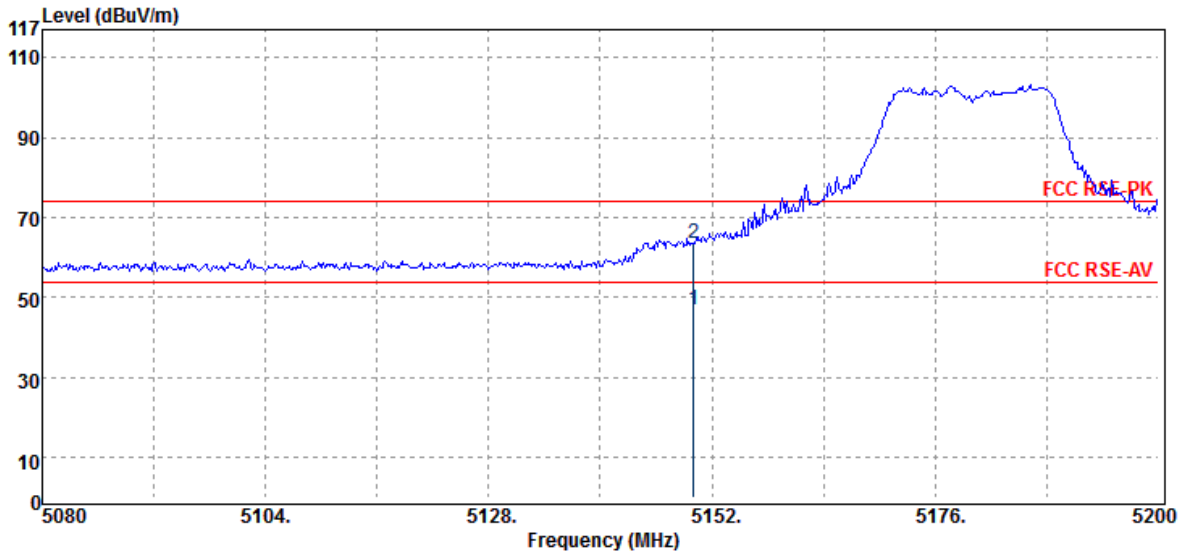
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802.11n20 HT mode

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

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	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
5150.00	E	Average	38.79	8.32	47.11	54.00	-6.89
5150.00	E	Peak	55.19	8.32	63.51	74.00	-10.49

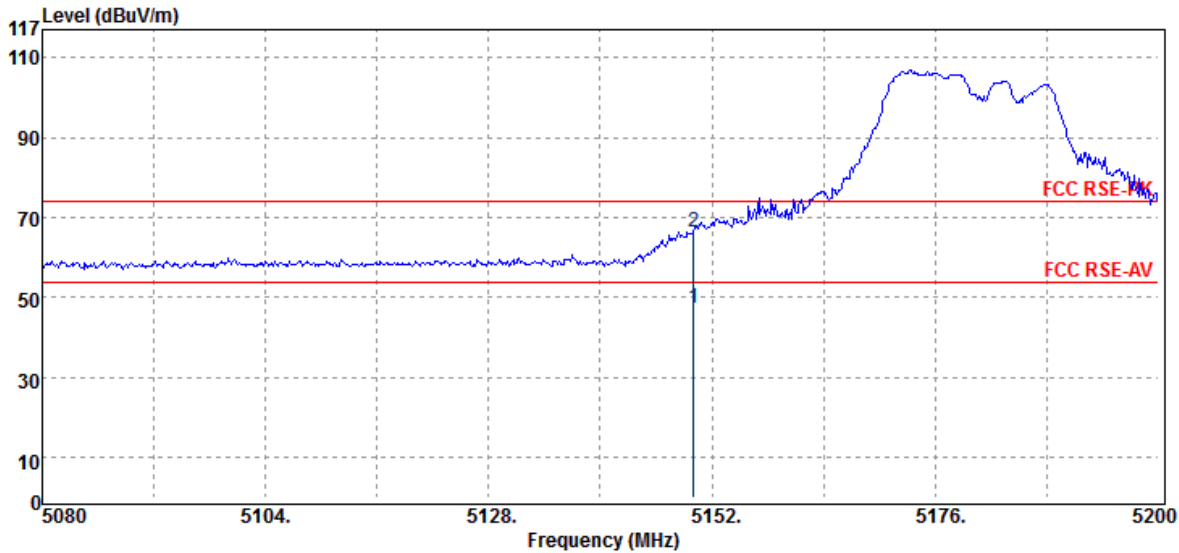
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Operation Band :802.11n20B1
 Fundamental Frequency :5180 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	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
5150.00	E	Average	39.19	8.32	47.51	54.00	-6.49
5150.00	E	Peak	58.16	8.32	66.48	74.00	-7.52

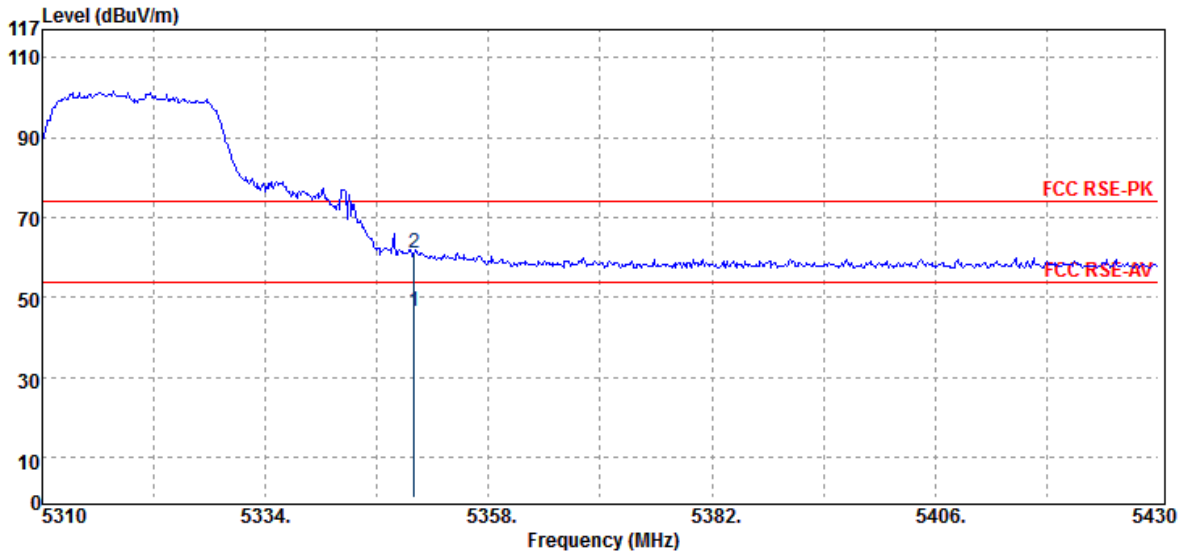
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Operation Band :802.11n20B2
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	E	Average	38.08	8.63	46.71	54.00	-7.29
5350.00	E	Peak	52.32	8.63	60.95	74.00	-13.05

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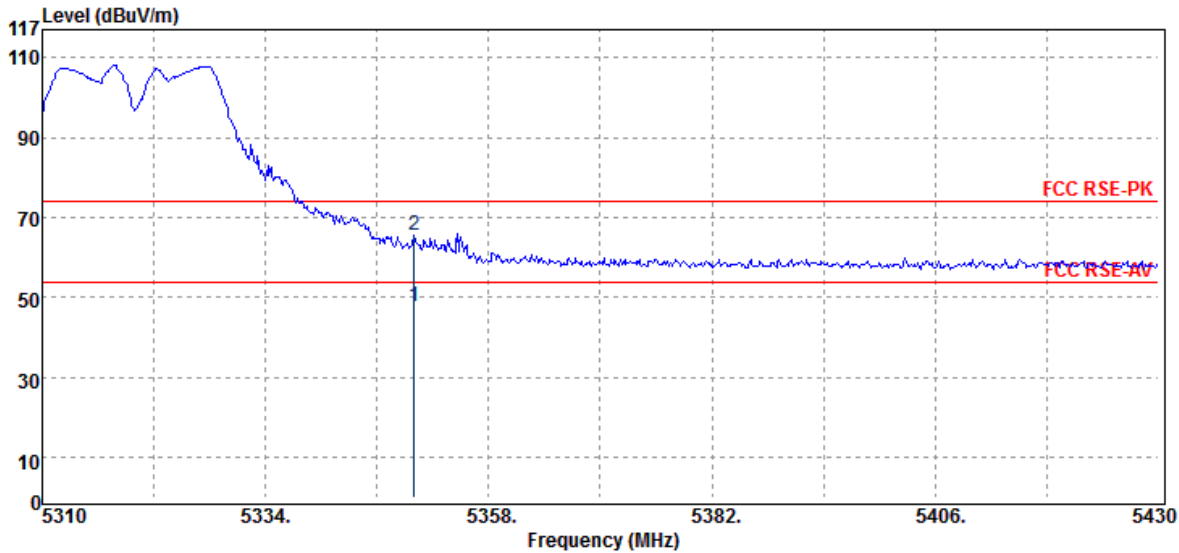
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Operation Band :802.11n20B2
 Fundamental Frequency :5320 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	E	Average	39.02	8.63	47.65	54.00	-6.35
5350.00	E	Peak	56.78	8.63	65.41	74.00	-8.59

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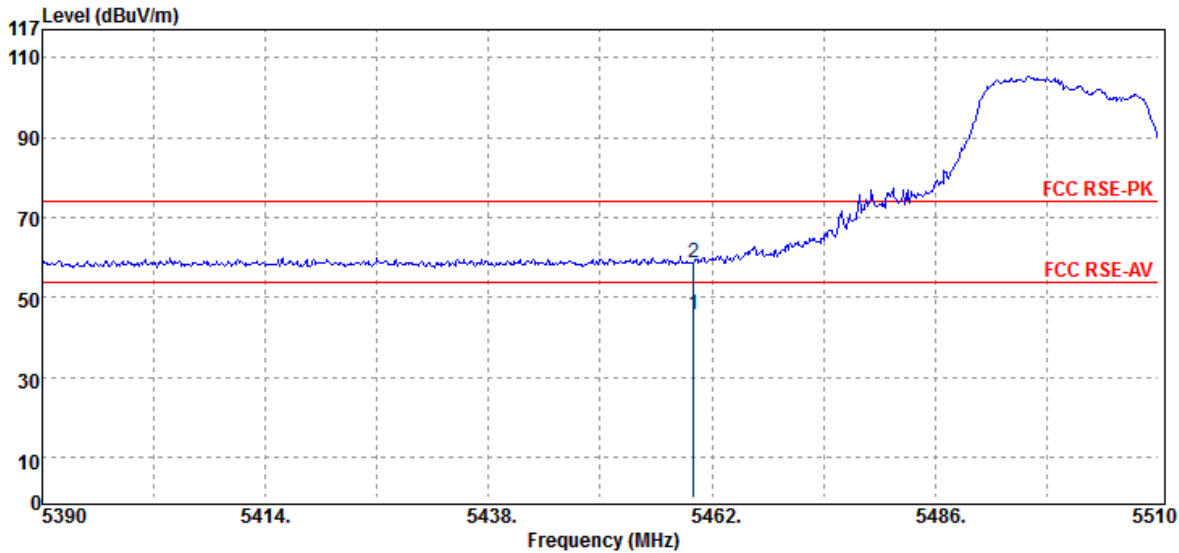
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Operation Band :802.11n20B3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	E	Average	37.17	8.75	45.92	54.00	-8.08
5460.00	E	Peak	49.85	8.75	58.60	74.00	-15.40

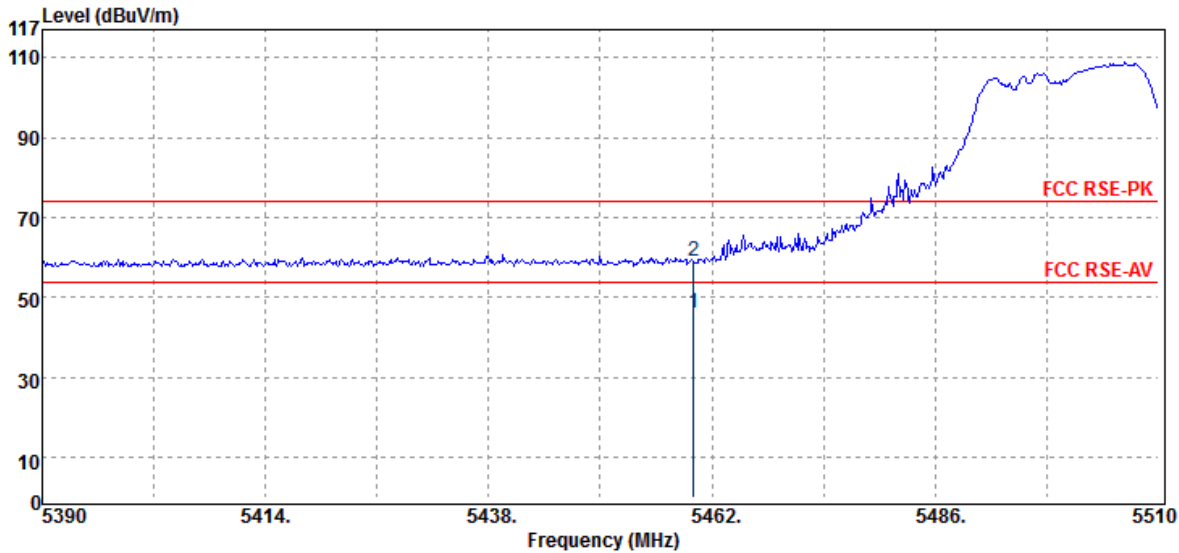
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Operation Band :802.11n20B3
 Fundamental Frequency :5500 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



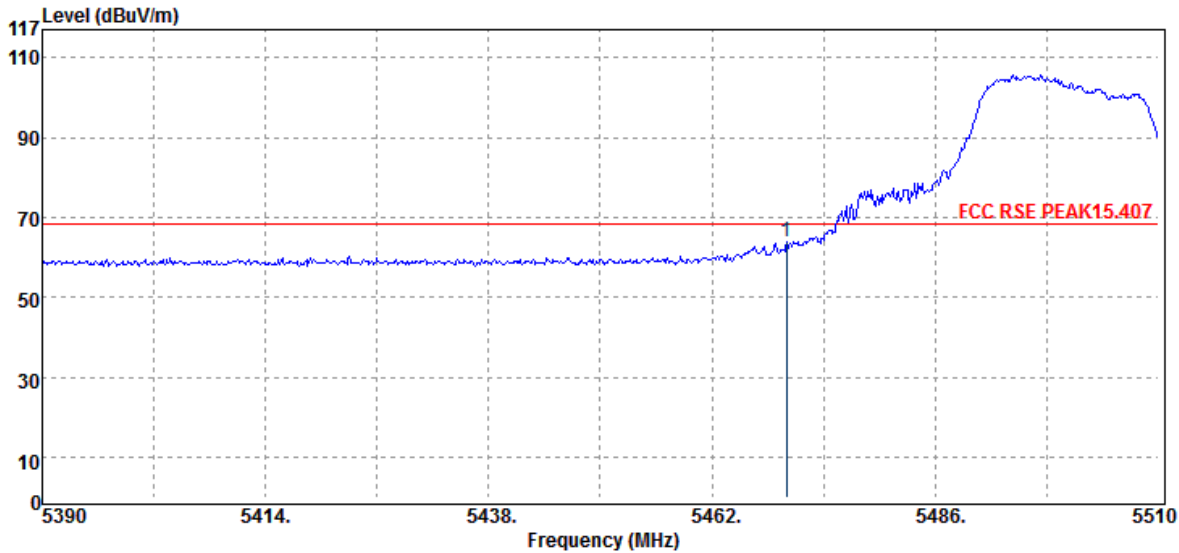
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	E	Average	37.49	8.75	46.24	54.00	-7.76
5460.00	E	Peak	50.47	8.75	59.22	74.00	-14.78

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Operation Band	:802.11n20B3	Test Date	:2018-03-27
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW RSE	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	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
5470.00	E	Peak	55.22	8.74	63.96	68.30	-4.34

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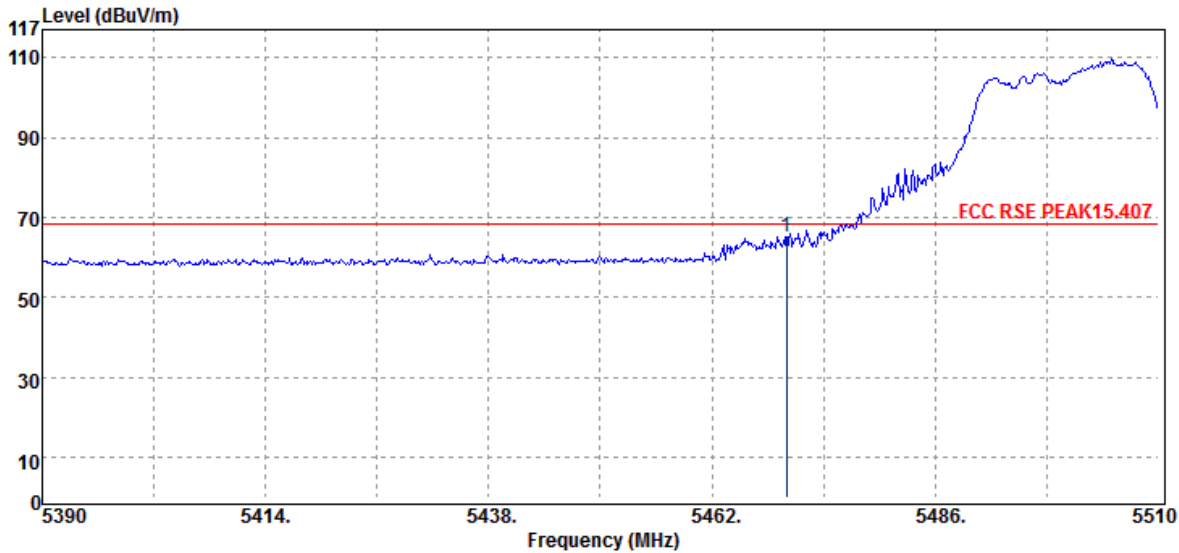
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Operation Band	:802.11n20B3	Test Date	:2018-03-29
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW RSE	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	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
5470.00	E	Peak	56.64	8.74	65.38	68.30	-2.92

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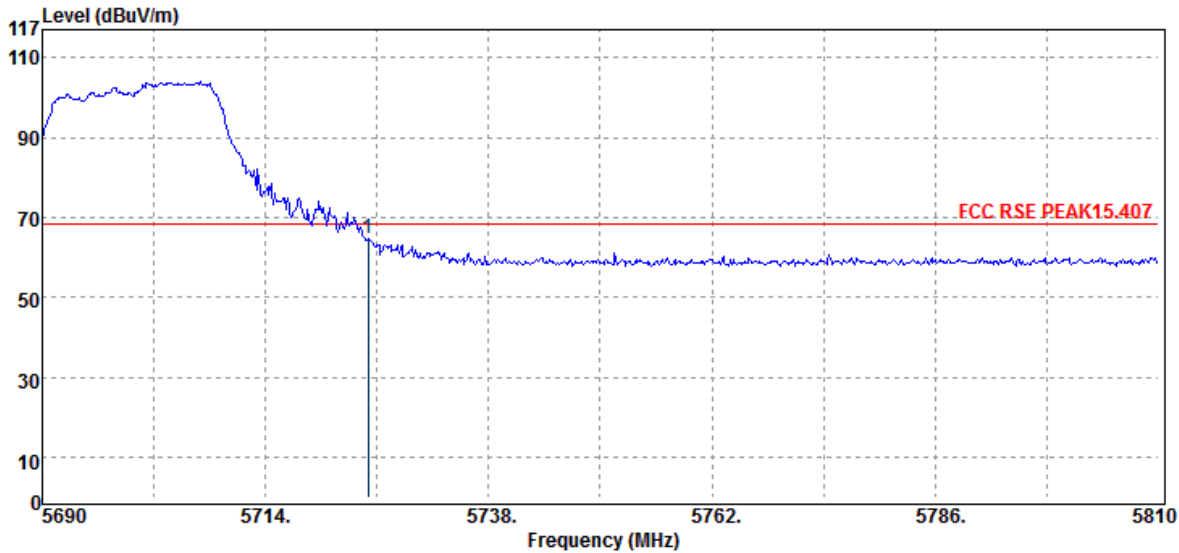
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Operation Band	:802.11n20B3	Test Date	:2018-03-27
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH RSE	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	E	Peak	55.30	9.44	64.74	68.30	-3.56

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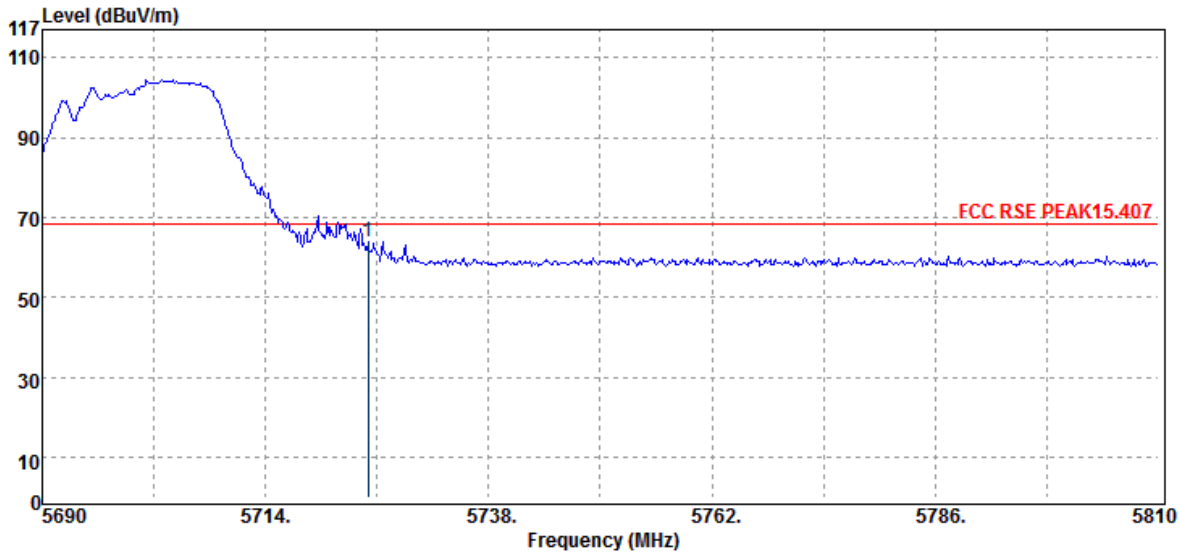
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Operation Band	:802.11n20B3	Test Date	:2018-03-27
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH RSE	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	E	Peak	54.49	9.44	63.93	68.30	-4.37

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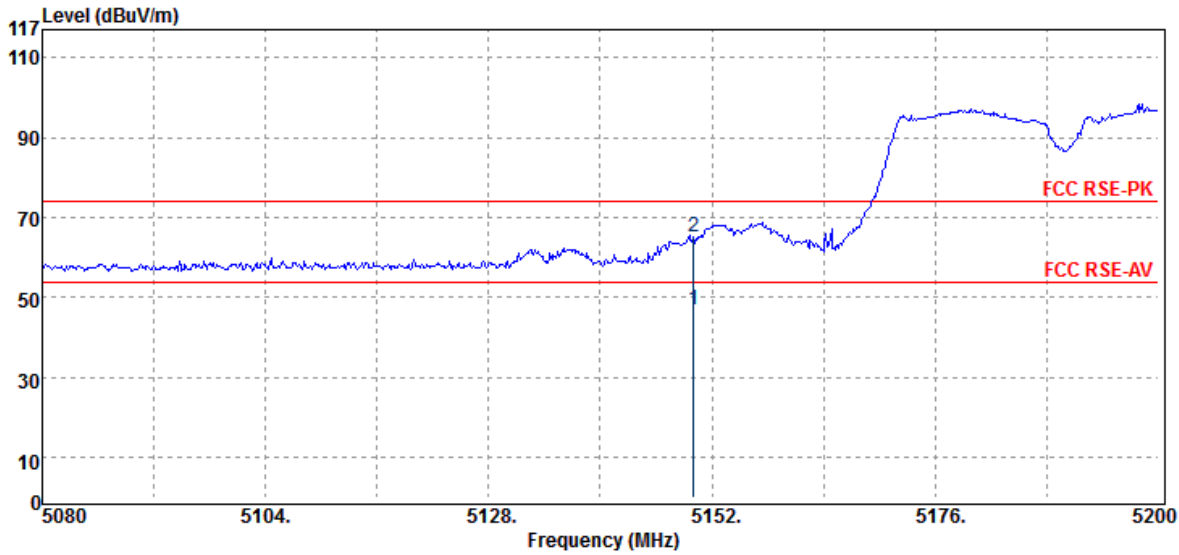
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802.11n40 HT mode

Operation Band	:802.11n40B1	Test Date	:2018-03-27
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	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
5150.00	E	Average	38.52	8.32	46.84	54.00	-7.16
5150.00	E	Peak	56.91	8.32	65.23	74.00	-8.77

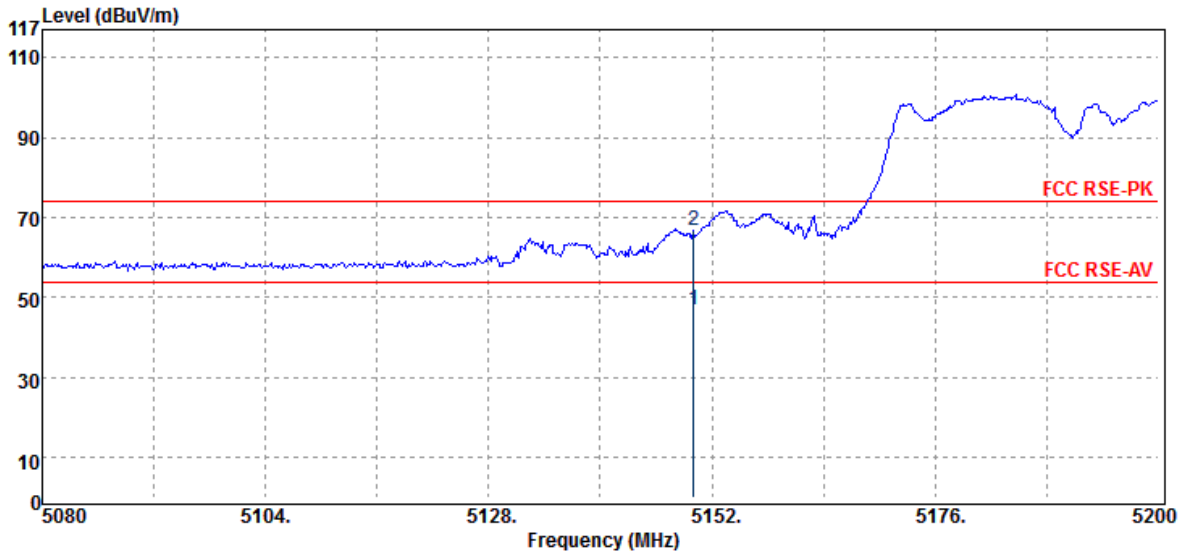
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Operation Band :802.11n40B1
 Fundamental Frequency :5190 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	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
5150.00	E	Average	38.78	8.32	47.10	54.00	-6.90
5150.00	E	Peak	58.37	8.32	66.69	74.00	-7.31

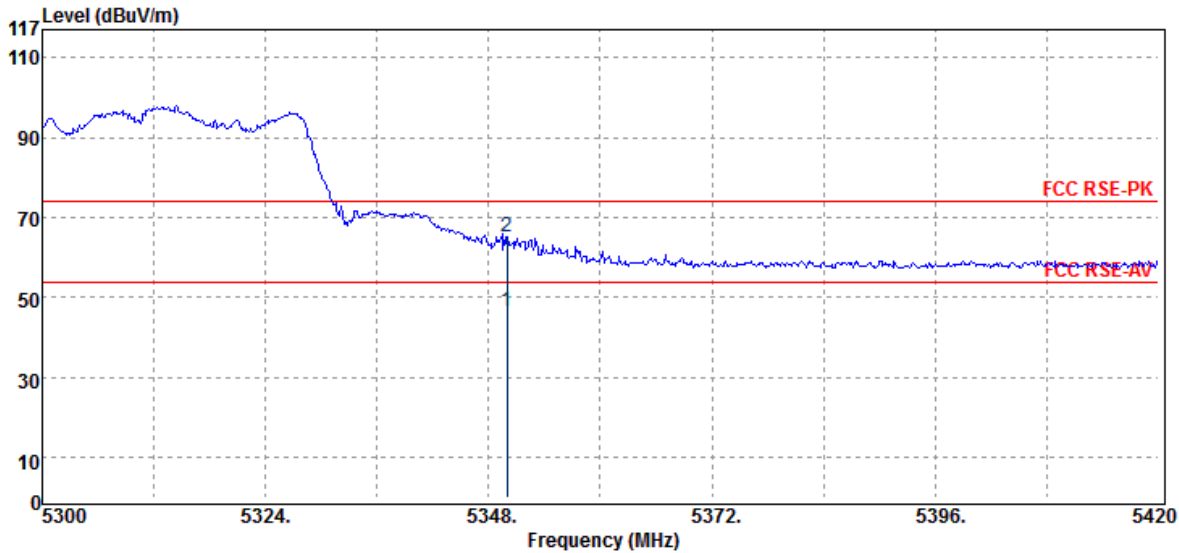
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Operation Band :802.11n40B2
 Fundamental Frequency :5310 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	E	Average	38.10	8.63	46.73	54.00	-7.27
5350.00	E	Peak	56.50	8.63	65.13	74.00	-8.87

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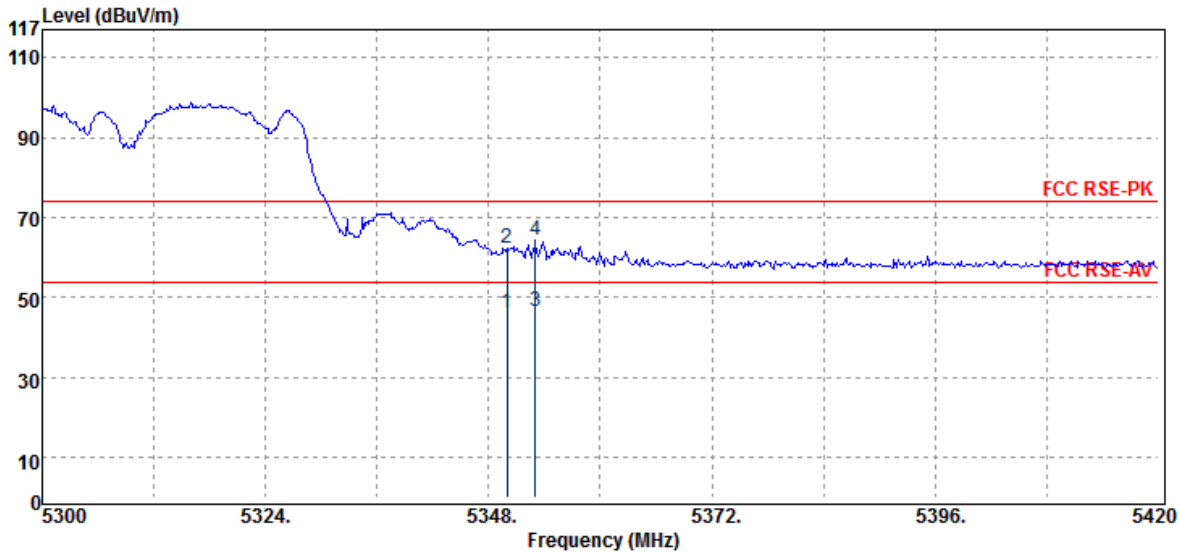
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Operation Band :802.11n40B2
 Fundamental Frequency :5310 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	E	Average	37.64	8.63	46.27	54.00	-7.73
5350.00	E	Peak	53.73	8.63	62.36	74.00	-11.64
5353.04	E	Average	37.71	8.65	46.36	54.00	-7.64
5353.04	E	Peak	55.67	8.65	64.32	74.00	-9.68

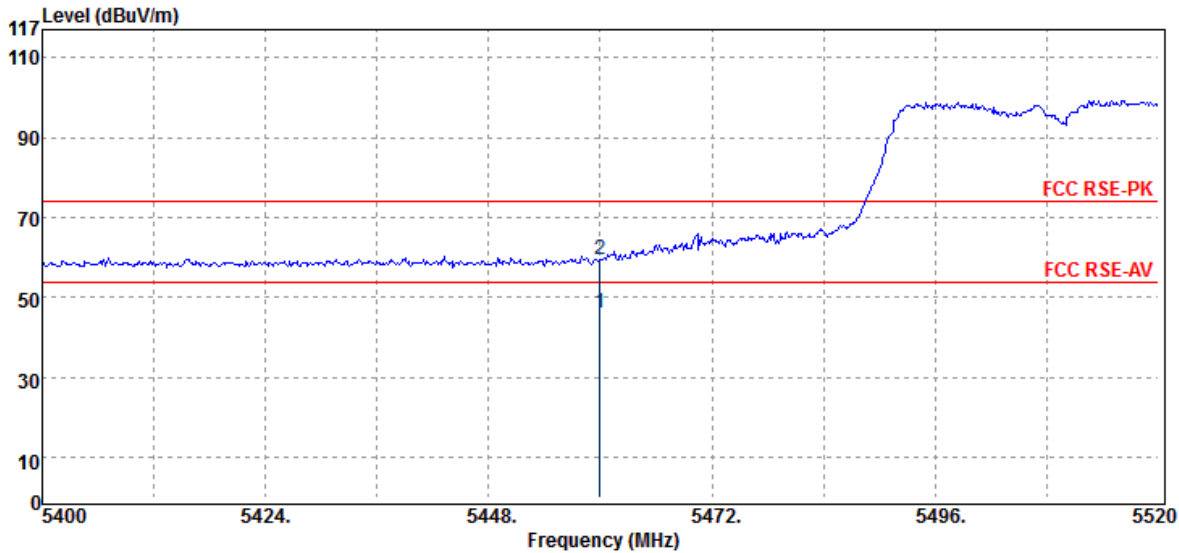
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Operation Band :802.11n40B3
 Fundamental Frequency :5510 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	E	Average	37.27	8.75	46.02	54.00	-7.98
5460.00	E	Peak	50.78	8.75	59.53	74.00	-14.47

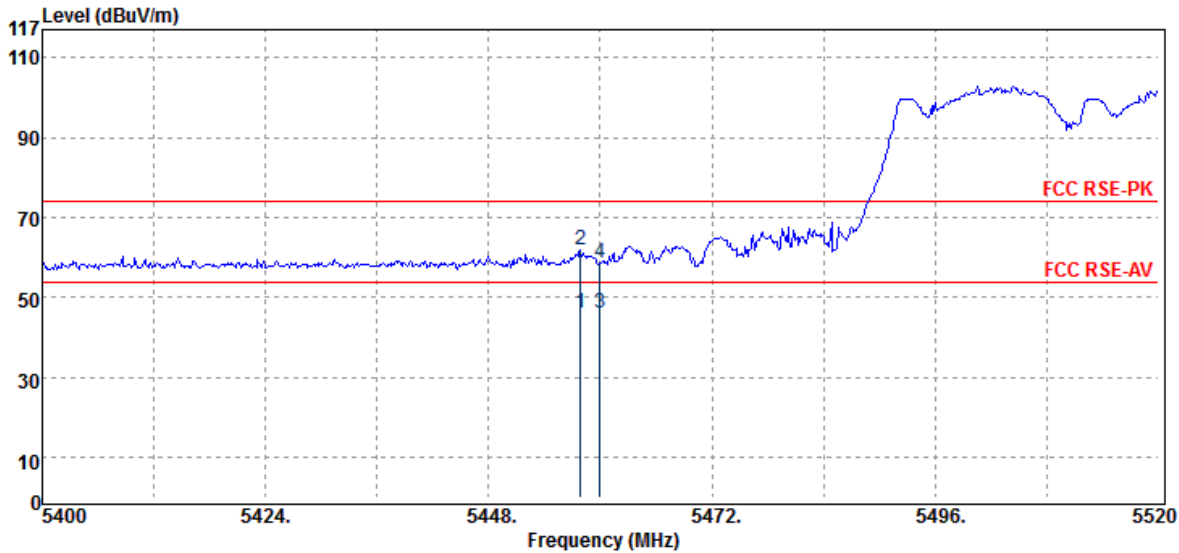
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Operation Band :802.11n40B3
 Fundamental Frequency :5510 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	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
5457.84	E	Average	37.37	8.75	46.12	54.00	-7.88
5457.84	E	Peak	53.02	8.75	61.77	74.00	-12.23
5460.00	E	Average	37.45	8.75	46.20	54.00	-7.80
5460.00	E	Peak	49.76	8.75	58.51	74.00	-15.49

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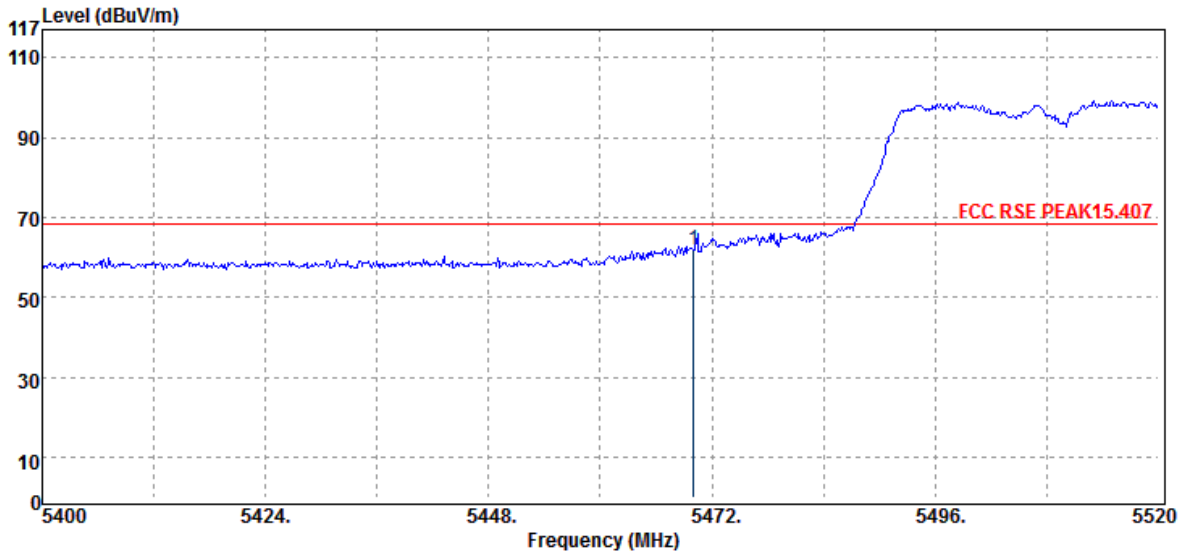
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Operation Band	:802.11n40B3	Test Date	:2018-03-27
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW RSE	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5470.00	E	Peak	53.27	8.74	62.01	68.30	-6.29

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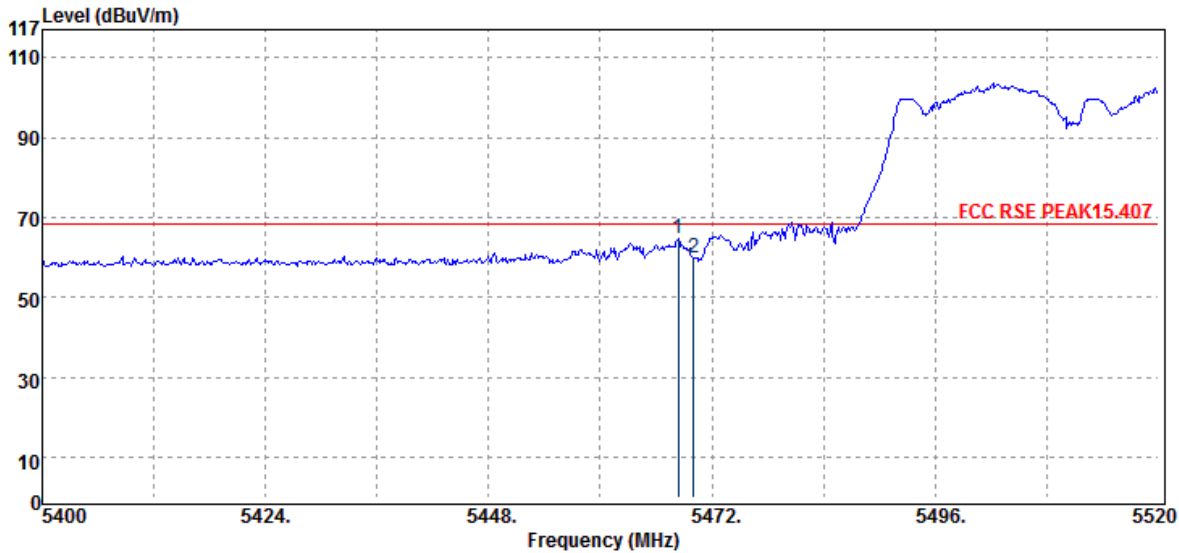
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Operation Band	:802.11n40B3	Test Date	:2018-03-27
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW RSE	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	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
5468.40	E	Peak	56.09	8.74	64.83	68.30	-3.47
5470.00	E	Peak	51.03	8.74	59.77	68.30	-8.53

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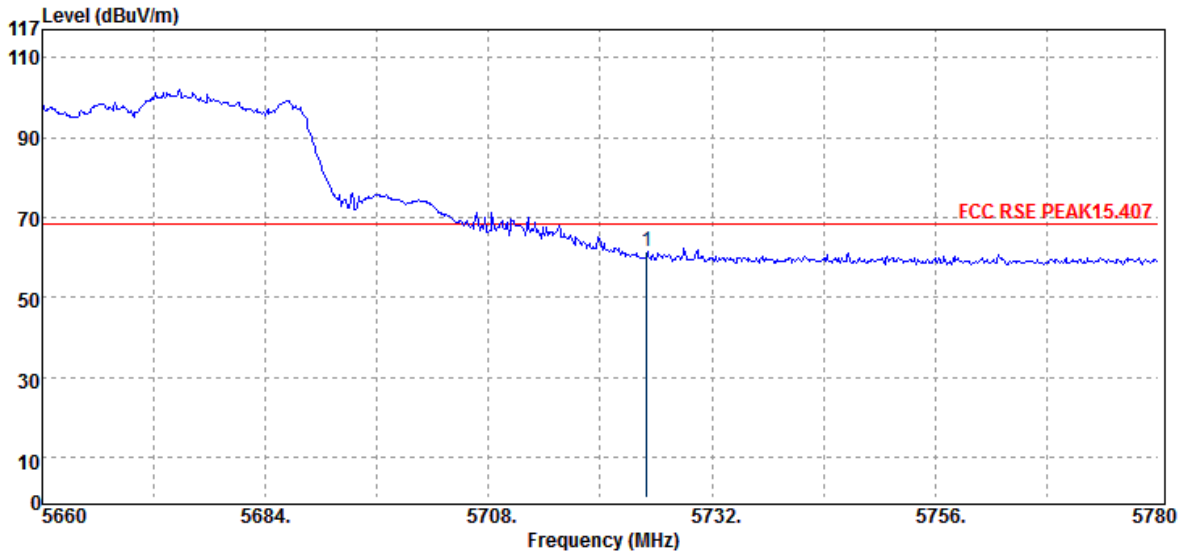
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Operation Band	:802.11n40B3	Test Date	:2018-03-27
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH RSE	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5725.00	E	Peak	52.05	9.44	61.49	68.30	-6.81

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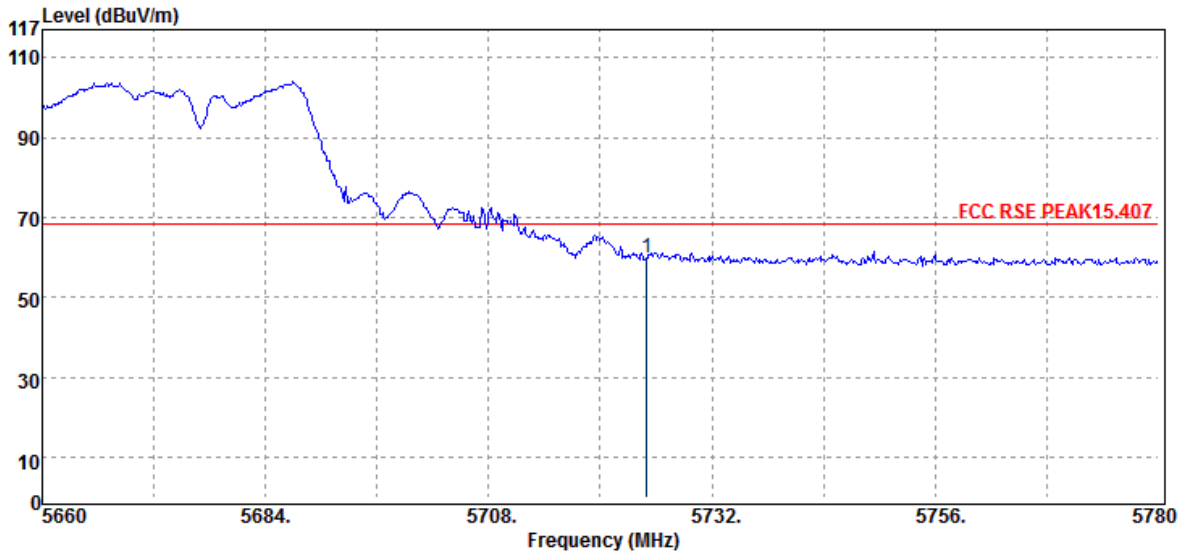
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Operation Band	:802.11n40B3	Test Date	:2018-03-27
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH RSE	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5725.00	E	Peak	50.67	9.44	60.11	68.30	-8.19

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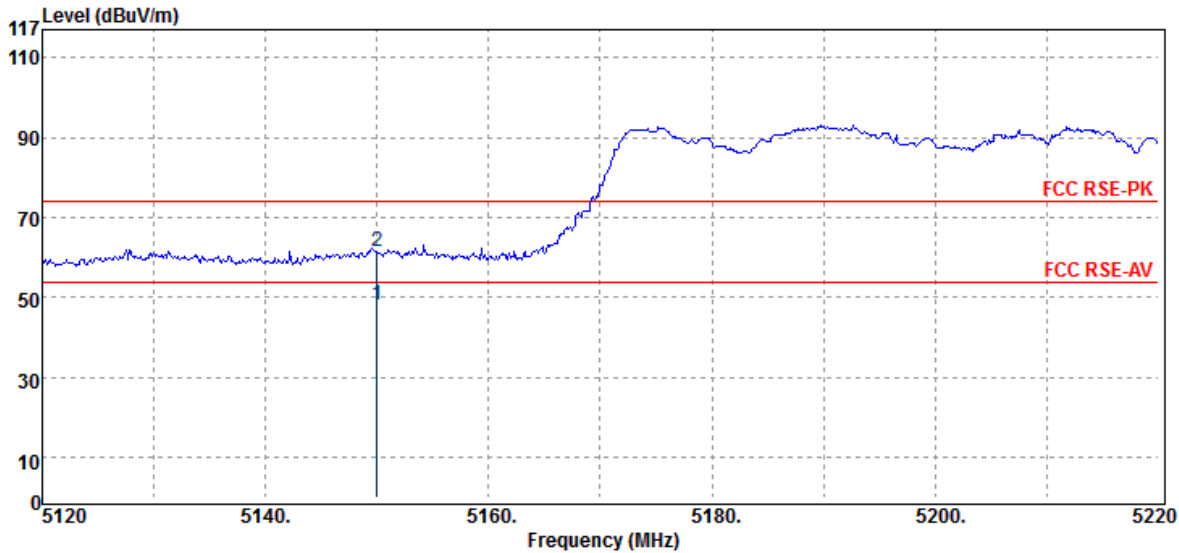
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802.11ac VHT80 mode

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

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	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
5150.00	E	Average	39.82	8.32	48.14	54.00	-5.86
5150.00	E	Peak	53.16	8.32	61.48	74.00	-12.52

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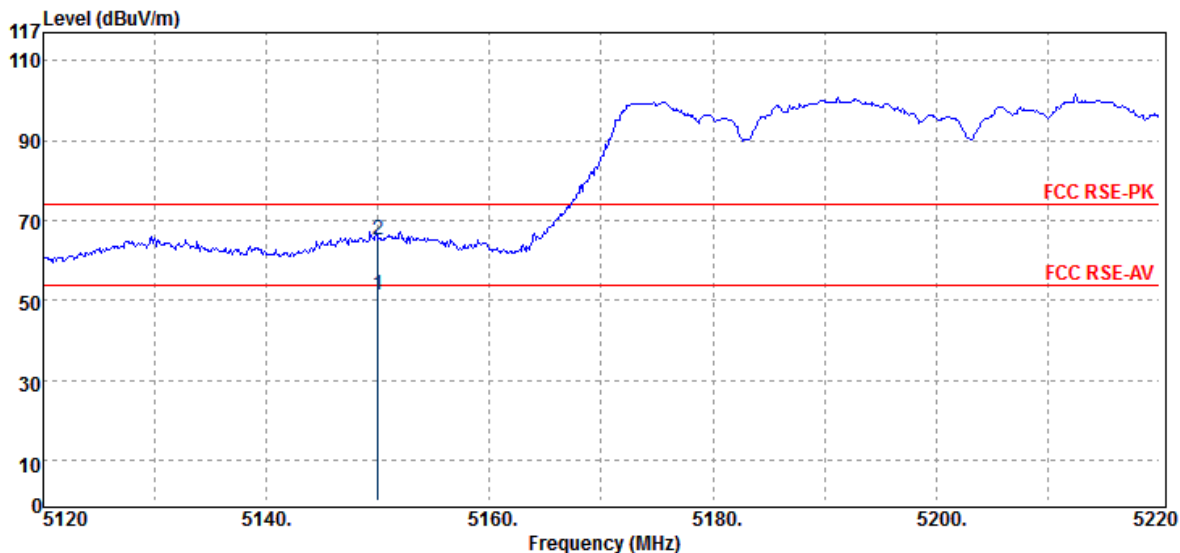
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Operation Band :802.11ac80B1
 Fundamental Frequency :5210 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	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
5150.00	E	Average	43.09	8.32	51.41	54.00	-2.59
5150.00	E	Peak	57.02	8.32	65.34	74.00	-8.66

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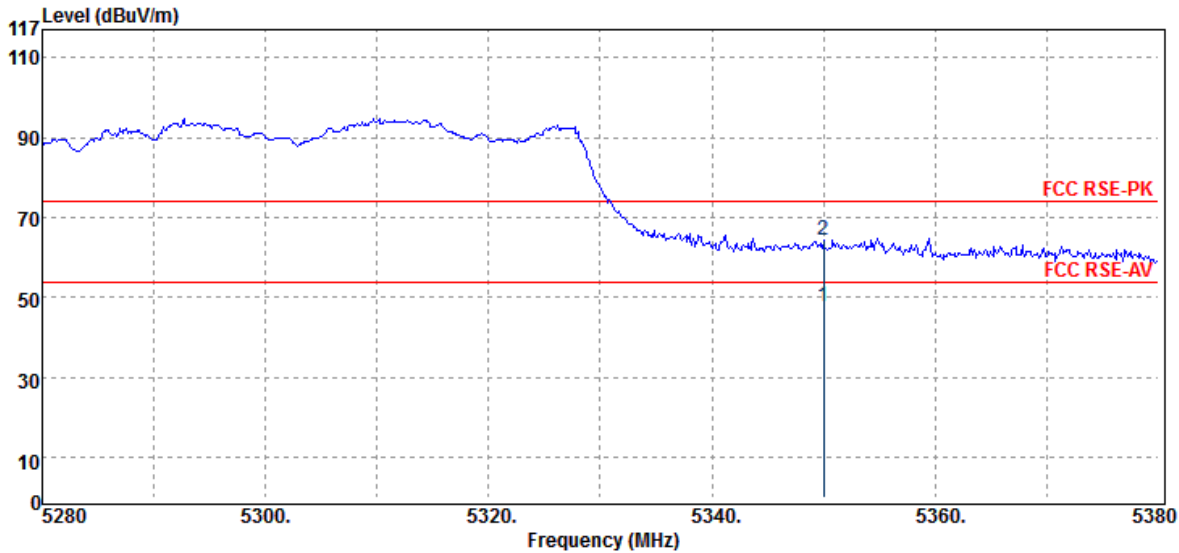
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Operation Band :802.11ac80B2
 Fundamental Frequency :5290 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-03-27
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	E	Average	39.00	8.63	47.63	54.00	-6.37
5350.00	E	Peak	55.80	8.63	64.43	74.00	-9.57

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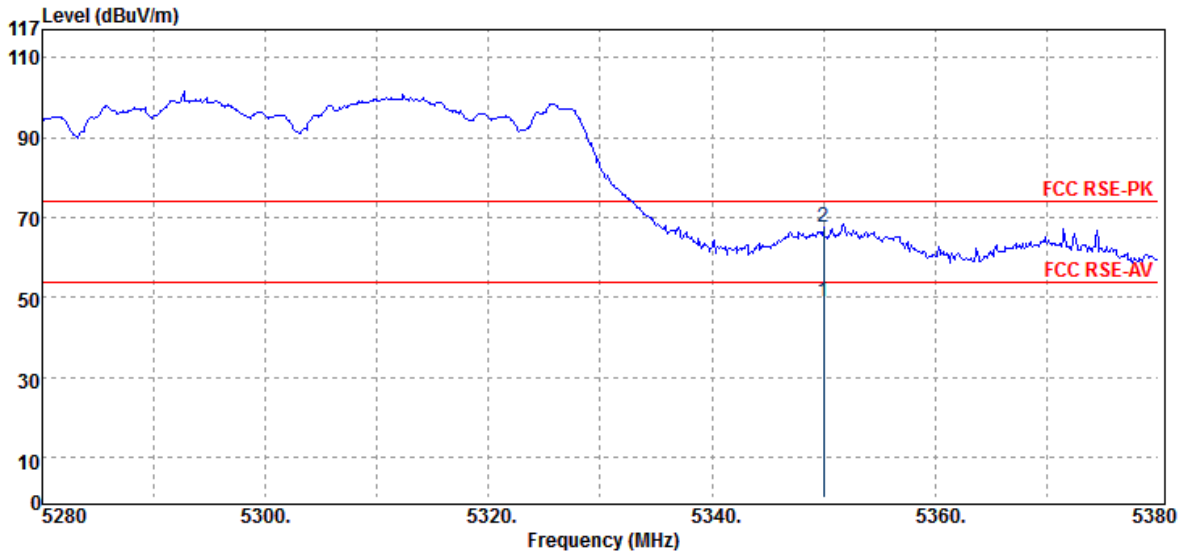
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Operation Band	:802.11ac80B2	Test Date	:2018-03-27
Fundamental Frequency	:5290 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	E	Average	40.31	8.63	48.94	54.00	-5.06
5350.00	E	Peak	58.79	8.63	67.42	74.00	-6.58

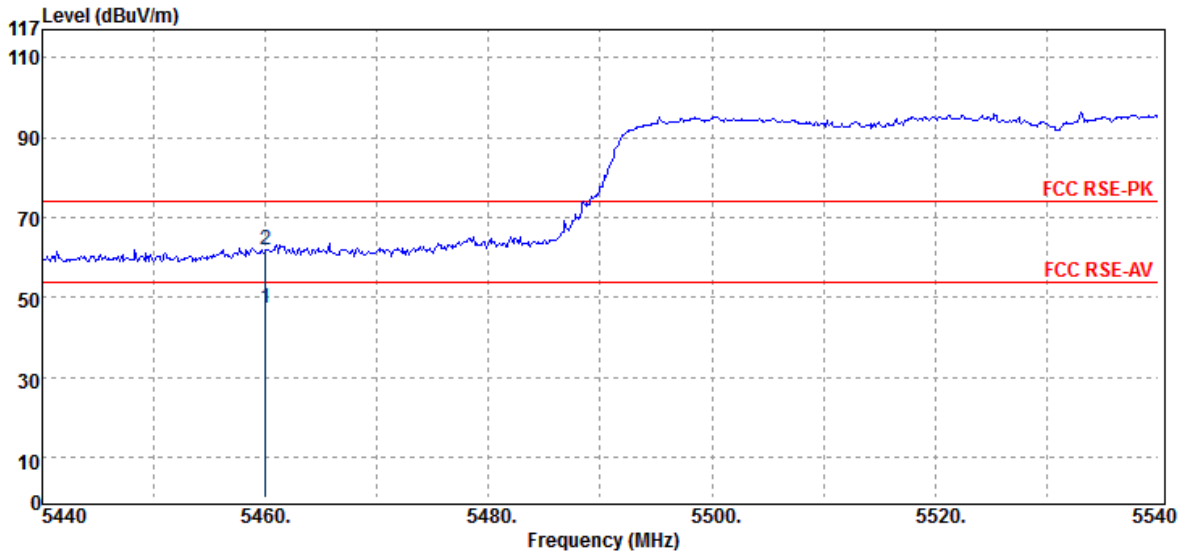
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Operation Band :802.11ac80B3
 Fundamental Frequency :5530 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-03-29
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	E	Average	38.74	8.75	47.49	54.00	-6.51
5460.00	E	Peak	53.11	8.75	61.86	74.00	-12.14

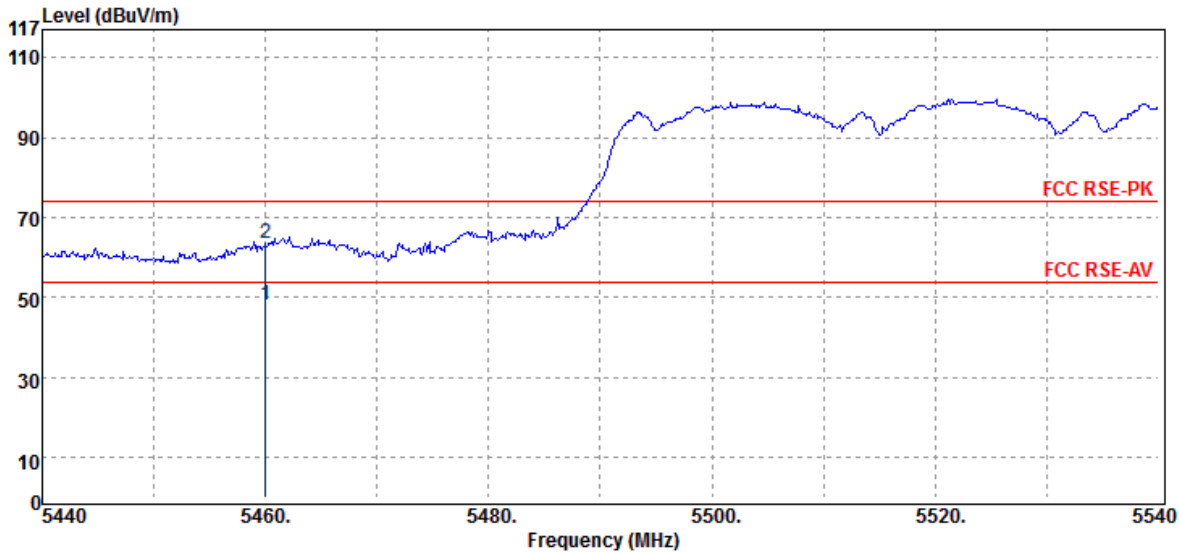
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Operation Band :802.11ac80B3
 Fundamental Frequency :5530 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2018-03-29
 Temp./Humi. :23 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	E	Average	39.55	8.75	48.30	54.00	-5.70
5460.00	E	Peak	54.97	8.75	63.72	74.00	-10.28

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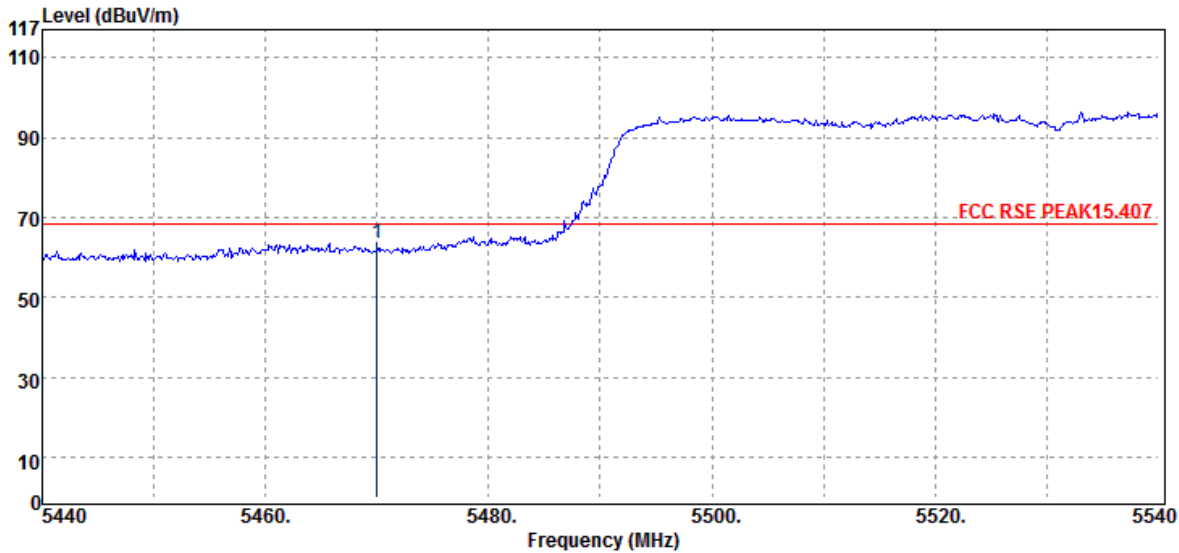
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Operation Band	:802.11ac80B3	Test Date	:2018-03-29
Fundamental Frequency	:5530 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW RSE	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	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
5470.00	E	Peak	54.84	8.74	63.58	68.30	-4.72

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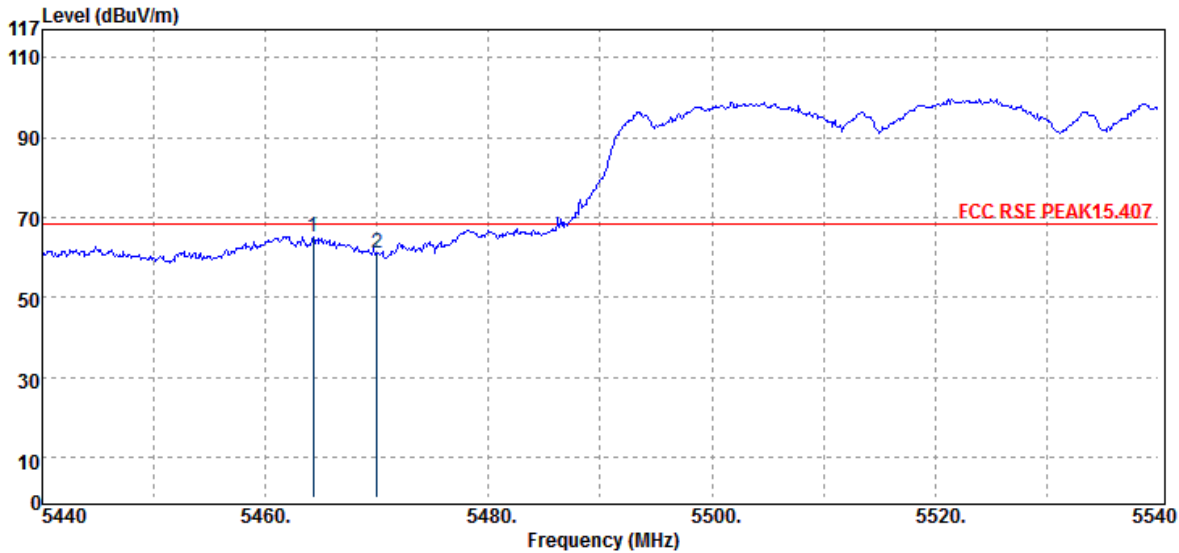
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Operation Band	:802.11ac80B3	Test Date	:2018-03-29
Fundamental Frequency	:5530 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW RSE	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	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
5464.30	E	Peak	56.62	8.74	65.36	68.30	-2.94
5470.00	E	Peak	52.58	8.74	61.32	68.30	-6.98

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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

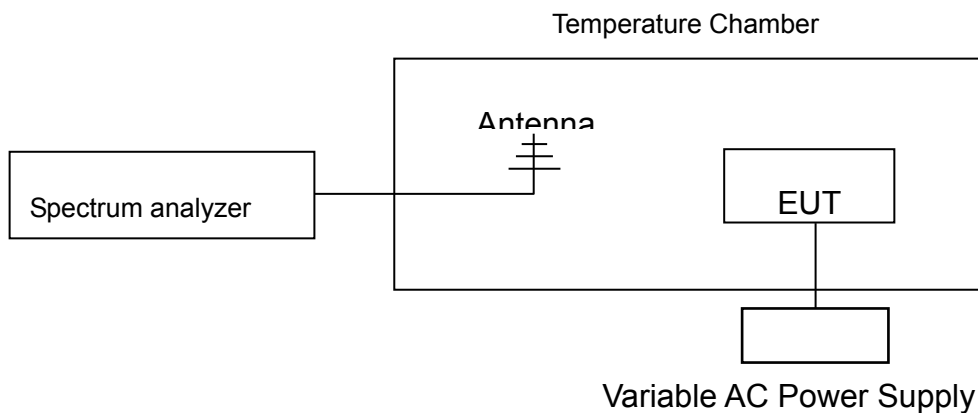
13.1 Standard Applicable

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:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY54200716	2017/10/16	2018/10/15
DC Power Supply	Anritsu	E3640A	MY52410006	2017/11/28	2018/11/27
Attenuator	Mini-Circuit	BW-S10W2+	2	2018/01/02	2019/01/01
Notebook	Lenovo	T440	P0000564	N/A	N/A
Temperature Chamber	TERCHY	MHG-120LF	911009	2017/05/19	2018/5/18

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13.5 Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.43V	36	5180	5,180.00000	0.00000000
		44	5220	5,219.98486	0.00000290
		48	5240	5,239.98486	0.00000289
		52	5260	5,259.98486	0.00000288
		60	5300	5,299.98486	0.00000286
		64	5320	5,319.98486	0.00000285
		100	5500	5,500.00000	0.00000000
		116	5580	5,580.00000	0.00000000
		140	5700	5,699.98486	0.00000266
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000
	3.27V	36	5180	5,179.98486	0.00000292
		44	5220	5,219.98486	0.00000290
		48	5240	5,239.98486	0.00000289
		52	5260	5,259.98486	0.00000288
		60	5300	5,299.98486	0.00000286
		64	5320	5,320.00000	0.00000000
		100	5500	5,499.98486	0.00000275
		116	5580	5,579.98486	0.00000271
		140	5700	5,699.98486	0.00000266
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000

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25	3.85V	36	5180	5,179.98486	0.00000292
		44	5220	5,219.98486	0.00000290
		48	5240	5,239.98486	0.00000289
		52	5260	5,259.98486	0.00000288
		60	5300	5,300.00000	0.00000000
		64	5320	5,320.00000	0.00000000
		100	5500	5,500.00000	0.00000000
		116	5580	5,579.98486	0.00000271
		140	5700	5,699.98486	0.00000266
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000

55	4.43V	36	5180	5,179.98486	0.00000292
		44	5220	5,220.00000	0.00000000
		48	5240	5,239.98486	0.00000289
		52	5260	5,260.00000	0.00000000
		60	5300	5,299.98486	0.00000286
		64	5320	5,319.98486	0.00000285
		100	5500	5,499.98486	0.00000275
		116	5580	5,579.98486	0.00000271
		140	5700	5,700.00000	0.00000000
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000
	3.27V	36	5180	5,180.00000	0.00000000
		44	5220	5,220.00000	0.00000000
		48	5240	5,240.00000	0.00000000
		52	5260	5,260.01514	-0.00000288
		60	5300	5,300.00000	0.00000000
		64	5320	5,319.98486	0.00000285
		100	5500	5,499.98486	0.00000275
		116	5580	5,579.98486	0.00000271
		140	5700	5,699.98486	0.00000266
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000

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Operation Mode	802.11 n_HT40	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.43V	38	5190	5,189.97510	0.00000480
		46	5230	5,230.00000	0.00000000
		54	5270	5,270.00000	0.00000000
		62	5310	5,310.00000	0.00000000
		102	5510	5,510.00000	0.00000000
		110	5550	5,549.97510	0.00000449
		134	5670	5,669.97510	0.00000439
		151	5755		1.00000000
		159	5795		1.00000000
	3.27V	38	5190	5,189.97510	0.00000480
		46	5230	5,229.97510	0.00000476
		54	5270	5,269.97510	0.00000473
		62	5310	5,309.97510	0.00000469
		102	5510	5,509.97510	0.00000452
		110	5550	5,550.00000	0.00000000
		134	5670	5,669.97510	0.00000439
		151	5755		1.00000000
		159	5795		1.00000000

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25	3.85V	38	5190	5,190.00000	0.00000000
		46	5230	5,230.00000	0.00000000
		54	5270	5,270.00000	0.00000000
		62	5310	5,309.97510	0.00000469
		102	5510	5,510.00000	0.00000000
		110	5550	5,549.97510	0.00000449
		134	5670	5,670.00000	0.00000000
		151	5755		1.00000000
		159	5795		1.00000000
55	4.43V	38	5190	5,189.97510	0.00000480
		46	5230	5,229.97510	0.00000476
		54	5270	5,270.00000	0.00000000
		62	5310	5,310.00000	0.00000000
		102	5510	5,509.97510	0.00000452
		110	5550	5,549.97510	0.00000449
		134	5670	5,669.97510	0.00000439
		151	5755		1.00000000
		159	5795		1.00000000
	3.27V	38	5190	5,190.00000	0.00000000
		46	5230	5,230.00000	0.00000000
		54	5270	5,269.97510	0.00000473
		62	5310	5,309.97510	0.00000469
		102	5510	5,510.00000	0.00000000
		110	5550	5,549.97510	0.00000449
		134	5670	5,669.97510	0.00000439
		151	5755		1.00000000
		159	5795		1.00000000

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Operation Mode	802.11 ac_VHT80	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.43V	42	5210	5,210.00000	0.00000000
		58	5290	5,290.00000	0.00000000
		106	5530	5,530.00000	0.00000000
		122	5610	5,610.00000	0.00000000
		155	5775		1.00000000
	3.27V	42	5210	5,209.95020	0.00000956
		58	5290	5,290.00000	0.00000000
		106	5530	5,529.95020	0.00000901
		122	5610	5,610.00000	0.00000000
		155	5775		1.00000000
25	3.85V	42	5210	5,210.04981	-0.00000956
		58	5290	5,290.00000	0.00000000
		106	5530	5,530.00000	0.00000000
		122	5610	5,610.00000	0.00000000
		155	5775		1.00000000
55	4.43V	42	5210	5,209.95020	0.00000956
		58	5290	5,290.00000	0.00000000
		106	5530	5,530.00000	0.00000000
		122	5610	5,610.00000	0.00000000
		155	5775		1.00000000
	3.27V	42	5210	5,210.00000	0.00000000
		58	5290	5,290.04981	-0.00000941
		106	5530	5,529.95020	0.00000901
		122	5610	5,610.00000	0.00000000
		155	5775		1.00000000

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2 Minutes:

Operation Mode	802.11 a	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.43V	36	5180	5,179.99866	0.00000026
		44	5220	5,219.97505	0.00000478
		48	5240	5,239.98210	0.00000342
		52	5260	5,259.97677	0.00000442
		60	5300	5,299.98295	0.00000322
		64	5320	5,319.99233	0.00000144
		100	5500	5,500.00728	-0.00000132
		116	5580	5,579.99535	0.00000083
		140	5700	5,699.98072	0.00000338
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000
	3.27V	36	5180	5,179.99339	0.00000128
		44	5220	5,219.98525	0.00000283
		48	5240	5,239.99115	0.00000169
		52	5260	5,259.99368	0.00000120
		60	5300	5,299.98195	0.00000341
		64	5320	5,319.99377	0.00000117
		100	5500	5,499.97929	0.00000377
		116	5580	5,579.98749	0.00000224
		140	5700	5,699.97541	0.00000431
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000

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25	3.85V	36	5180	5,179.98633	0.00000264
		44	5220	5,219.98500	0.00000287
		48	5240	5,239.97782	0.00000423
		52	5260	5,259.98776	0.00000233
		60	5300	5,299.99945	0.00000010
		64	5320	5,319.99465	0.00000101
		100	5500	5,499.99657	0.00000062
		116	5580	5,579.98389	0.00000289
		140	5700	5,699.97983	0.00000354
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000

55	4.43V	36	5180	5,179.98921	0.00000208
		44	5220	5,219.99787	0.00000041
		48	5240	5,239.99479	0.00000100
		52	5260	5,259.99440	0.00000107
		60	5300	5,299.98500	0.00000283
		64	5320	5,319.97640	0.00000444
		100	5500	5,499.99469	0.00000097
		116	5580	5,579.98180	0.00000326
		140	5700	5,700.00464	-0.00000081
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000
	3.27V	36	5180	5,179.99164	0.00000161
		44	5220	5,220.00213	-0.00000041
		48	5240	5,239.99440	0.00000107
		52	5260	5,260.01151	-0.00000219
		60	5300	5,300.00362	-0.00000068
		64	5320	5,319.97495	0.00000471
		100	5500	5,499.98314	0.00000306
		116	5580	5,579.98065	0.00000347
		140	5700	5,699.98741	0.00000221
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000

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Operation Mode	802.11 n_HT40	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.43V	38	5190	5,189.97698	0.00000444
		46	5230	5,229.99771	0.00000044
		54	5270	5,269.99468	0.00000101
		62	5310	5,309.99716	0.00000053
		102	5510	5,510.00926	-0.00000168
		110	5550	5,549.97606	0.00000431
		134	5670	5,669.97989	0.00000355
		151	5755		1.00000000
		159	5795		1.00000000
	3.27V	38	5190	5,189.97466	0.00000488
		46	5230	5,229.98368	0.00000312
		54	5270	5,269.98431	0.00000298
		62	5310	5,309.97880	0.00000399
		102	5510	5,509.97258	0.00000498
		110	5550	5,550.00584	-0.00000105
		134	5670	5,669.96985	0.00000532
		151	5755		1.00000000
		159	5795		1.00000000

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25	3.85V	38	5190	5,190.00017	-0.00000003
		46	5230	5,229.99020	0.00000187
		54	5270	5,269.99165	0.00000158
		62	5310	5,309.98330	0.00000315
		102	5510	5,510.00790	-0.00000143
		110	5550	5,549.97886	0.00000381
		134	5670	5,670.00634	-0.00000112
		151	5755		1.00000000
		159	5795		1.00000000
55	4.43V	38	5190	5,189.97924	0.00000400
		46	5230	5,229.97411	0.00000495
		54	5270	5,269.99580	0.00000080
		62	5310	5,310.00635	-0.00000120
		102	5510	5,509.96834	0.00000575
		110	5550	5,549.96523	0.00000626
		134	5670	5,669.97927	0.00000366
		151	5755		1.00000000
		159	5795		1.00000000
	3.27V	38	5190	5,189.99216	0.00000151
		46	5230	5,229.99668	0.00000063
		54	5270	5,269.98457	0.00000293
		62	5310	5,309.98184	0.00000342
		102	5510	5,509.99152	0.00000154
		110	5550	5,549.97234	0.00000498
		134	5670	5,669.97864	0.00000377
		151	5755		1.00000000
		159	5795		1.00000000

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Operation Mode	802.11 ac_VHT80	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.43V	42	5210	5,209.99770	0.00000044
		58	5290	5,290.00902	-0.00000171
		106	5530	5,529.99824	0.00000032
		122	5610	5,609.99937	0.00000011
		155	5775		1.00000000
	3.27V	42	5210	5,209.95337	0.00000895
		58	5290	5,290.00680	-0.00000128
		106	5530	5,529.94030	0.00001079
		122	5610	5,610.00591	-0.00000105
		155	5775		1.00000000
25	3.85V	42	5210	5,210.05603	-0.00001075
		58	5290	5,289.99432	0.00000107
		106	5530	5,530.00362	-0.00000065
		122	5610	5,609.99320	0.00000121
		155	5775		1.00000000
55	4.43V	42	5210	5,209.96012	0.00000766
		58	5290	5,289.99471	0.00000100
		106	5530	5,529.99097	0.00000163
		122	5610	5,610.00170	-0.00000030
		155	5775		1.00000000
	3.27V	42	5210	5,209.99348	0.00000125
		58	5290	5,290.05761	-0.00001089
		106	5530	5,529.94488	0.00000997
		122	5610	5,609.99486	0.00000092
		155	5775		1.00000000

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5 Minutes:

Operation Mode	802.11 a	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.43V	36	5180	5,179.99540	0.00000089
		44	5220	5,219.98415	0.00000304
		48	5240	5,239.98364	0.00000312
		52	5260	5,259.97489	0.00000477
		60	5300	5,299.98185	0.00000342
		64	5320	5,319.99051	0.00000178
		100	5500	5,500.00688	-0.00000125
		116	5580	5,579.99707	0.00000053
		140	5700	5,699.98819	0.00000207
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000
	3.27V	36	5180	5,179.97699	0.00000444
		44	5220	5,219.99443	0.00000107
		48	5240	5,239.98871	0.00000215
		52	5260	5,259.99484	0.00000098
		60	5300	5,299.98836	0.00000220
		64	5320	5,320.00152	-0.00000029
		100	5500	5,499.99325	0.00000123
		116	5580	5,579.97954	0.00000367
		140	5700	5,699.98665	0.00000234
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000

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25	3.85V	36	5180	5,179.98800	0.00000232
		44	5220	5,219.97889	0.00000404
		48	5240	5,239.98617	0.00000264
		52	5260	5,259.98230	0.00000336
		60	5300	5,300.00346	-0.00000065
		64	5320	5,320.00970	-0.00000182
		100	5500	5,499.99172	0.00000151
		116	5580	5,579.98215	0.00000320
		140	5700	5,699.98387	0.00000283
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000

55	4.43V	36	5180	5,179.98607	0.00000269
		44	5220	5,219.99029	0.00000186
		48	5240	5,239.97891	0.00000402
		52	5260	5,260.00061	-0.00000012
		60	5300	5,299.97582	0.00000456
		64	5320	5,319.98912	0.00000205
		100	5500	5,499.98664	0.00000243
		116	5580	5,579.98547	0.00000260
		140	5700	5,700.00818	-0.00000144
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000
	3.27V	36	5180	5,179.99770	0.00000044
		44	5220	5,219.99091	0.00000174
		48	5240	5,240.00598	-0.00000114
		52	5260	5,260.00782	-0.00000149
		60	5300	5,300.00027	-0.00000005
		64	5320	5,319.97652	0.00000441
		100	5500	5,499.98416	0.00000288
		116	5580	5,579.98852	0.00000206
		140	5700	5,699.97859	0.00000376
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000

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Operation Mode	802.11 n_HT40	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.43V	38	5190	5,189.96803	0.00000616
		46	5230	5,229.99042	0.00000183
		54	5270	5,270.00965	-0.00000183
		62	5310	5,310.00755	-0.00000142
		102	5510	5,510.00117	-0.00000021
		110	5550	5,549.97046	0.00000532
		134	5670	5,669.98002	0.00000352
		151	5755		1.00000000
		159	5795		1.00000000
	3.27V	38	5190	5,189.96711	0.00000634
		46	5230	5,229.97422	0.00000493
		54	5270	5,269.97004	0.00000569
		62	5310	5,309.98216	0.00000336
		102	5510	5,509.96773	0.00000586
		110	5550	5,550.00118	-0.00000021
		134	5670	5,669.96763	0.00000571
		151	5755		1.00000000
		159	5795		1.00000000

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25	3.85V	38	5190	5,190.00039	-0.00000008
		46	5230	5,229.99115	0.00000169
		54	5270	5,270.00826	-0.00000157
		62	5310	5,309.96717	0.00000618
		102	5510	5,509.99943	0.00000010
		110	5550	5,549.98132	0.00000337
		134	5670	5,670.00706	-0.00000124
		151	5755		1.00000000
		159	5795		1.00000000
55	4.43V	38	5190	5,189.97043	0.00000570
		46	5230	5,229.97408	0.00000496
		54	5270	5,269.99360	0.00000121
		62	5310	5,310.00608	-0.00000115
		102	5510	5,509.97573	0.00000440
		110	5550	5,549.97537	0.00000444
		134	5670	5,669.98269	0.00000305
		151	5755		1.00000000
		159	5795		1.00000000
	3.27V	38	5190	5,189.99364	0.00000123
		46	5230	5,229.99561	0.00000084
		54	5270	5,269.96559	0.00000653
		62	5310	5,309.97576	0.00000456
		102	5510	5,509.99435	0.00000102
		110	5550	5,549.97327	0.00000482
		134	5670	5,669.97532	0.00000435
		151	5755		1.00000000
		159	5795		1.00000000

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Operation Mode	802.11 ac_VHT80	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.43V	42	5210	5,209.99434	0.00000109
		58	5290	5,290.00203	-0.00000038
		106	5530	5,530.00813	-0.00000147
		122	5610	5,610.00299	-0.00000053
		155	5775		1.00000000
	3.27V	42	5210	5,209.95831	0.00000800
		58	5290	5,290.00232	-0.00000044
		106	5530	5,529.95796	0.00000760
		122	5610	5,610.00133	-0.00000024
		155	5775		1.00000000
25	3.85V	42	5210	5,210.04185	-0.00000803
		58	5290	5,289.99917	0.00000016
		106	5530	5,530.00978	-0.00000177
		122	5610	5,609.99599	0.00000072
		155	5775		1.00000000
55	4.43V	42	5210	5,209.95734	0.00000819
		58	5290	5,289.99040	0.00000181
		106	5530	5,530.00073	-0.00000013
		122	5610	5,610.00885	-0.00000158
		155	5775		1.00000000
	3.27V	42	5210	5,210.00333	-0.00000064
		58	5290	5,290.05915	-0.00001118
		106	5530	5,529.95519	0.00000810
		122	5610	5,610.00282	-0.00000050
		155	5775		1.00000000

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10 Minutes:

Operation Mode	802.11 a	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.43V	36	5180	5,179.99464	0.00000104
		44	5220	5,219.97806	0.00000420
		48	5240	5,239.98782	0.00000233
		52	5260	5,259.97606	0.00000455
		60	5300	5,299.97812	0.00000413
		64	5320	5,319.98235	0.00000332
		100	5500	5,499.99508	0.00000089
		116	5580	5,580.00941	-0.00000169
		140	5700	5,699.98297	0.00000299
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000
	3.27V	36	5180	5,179.97614	0.00000461
		44	5220	5,219.97684	0.00000444
		48	5240	5,239.98723	0.00000244
		52	5260	5,259.97558	0.00000464
		60	5300	5,299.98249	0.00000330
		64	5320	5,320.00811	-0.00000152
		100	5500	5,499.99023	0.00000178
		116	5580	5,579.98323	0.00000301
		140	5700	5,699.98761	0.00000217
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000

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25	3.85V	36	5180	5,179.99182	0.00000158
		44	5220	5,219.98613	0.00000266
		48	5240	5,239.99242	0.00000145
		52	5260	5,259.99128	0.00000166
		60	5300	5,300.00295	-0.00000056
		64	5320	5,319.99946	0.00000010
		100	5500	5,499.99220	0.00000142
		116	5580	5,579.98860	0.00000204
		140	5700	5,699.99466	0.00000094
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000

55	4.43V	36	5180	5,179.99260	0.00000143
		44	5220	5,219.99692	0.00000059
		48	5240	5,239.98494	0.00000287
		52	5260	5,260.00243	-0.00000046
		60	5300	5,299.98934	0.00000201
		64	5320	5,319.97661	0.00000440
		100	5500	5,499.99041	0.00000174
		116	5580	5,579.98688	0.00000235
		140	5700	5,700.00674	-0.00000118
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000
	3.27V	36	5180	5,180.00432	-0.00000083
		44	5220	5,220.00605	-0.00000116
		48	5240	5,239.99418	0.00000111
		52	5260	5,260.02125	-0.00000404
		60	5300	5,300.00916	-0.00000173
		64	5320	5,319.99406	0.00000112
		100	5500	5,499.98279	0.00000313
		116	5580	5,579.97898	0.00000377
		140	5700	5,699.97672	0.00000408
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000

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Operation Mode	802.11 n_HT40	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.43V	38	5190	5,189.97821	0.00000420
		46	5230	5,230.00230	-0.00000044
		54	5270	5,270.00703	-0.00000133
		62	5310	5,310.00257	-0.00000048
		102	5510	5,510.00797	-0.00000145
		110	5550	5,549.98148	0.00000334
		134	5670	5,669.98261	0.00000307
		151	5755		1.00000000
		159	5795		1.00000000
	3.27V	38	5190	5,189.97909	0.00000403
		46	5230	5,229.98483	0.00000290
		54	5270	5,269.98402	0.00000303
		62	5310	5,309.96931	0.00000578
		102	5510	5,509.98277	0.00000313
		110	5550	5,550.00385	-0.00000069
		134	5670	5,669.97354	0.00000467
		151	5755		1.00000000
		159	5795		1.00000000

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25	3.85V	38	5190	5,190.00729	-0.00000140
		46	5230	5,230.00801	-0.00000153
		54	5270	5,270.00422	-0.00000080
		62	5310	5,309.96713	0.00000619
		102	5510	5,510.00178	-0.00000032
		110	5550	5,549.97323	0.00000482
		134	5670	5,670.00937	-0.00000165
		151	5755		1.00000000
		159	5795		1.00000000
55	4.43V	38	5190	5,189.97375	0.00000506
		46	5230	5,229.96915	0.00000590
		54	5270	5,269.99399	0.00000114
		62	5310	5,310.00216	-0.00000041
		102	5510	5,509.96734	0.00000593
		110	5550	5,549.96789	0.00000579
		134	5670	5,669.97765	0.00000394
		151	5755		1.00000000
		159	5795		1.00000000
	3.27V	38	5190	5,189.99017	0.00000189
		46	5230	5,229.99263	0.00000141
		54	5270	5,269.97732	0.00000430
		62	5310	5,309.97744	0.00000425
		102	5510	5,510.00825	-0.00000150
		110	5550	5,549.97600	0.00000432
		134	5670	5,669.98373	0.00000287
		151	5755		1.00000000
		159	5795		1.00000000

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Operation Mode	802.11 ac_VHT80	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.43V	42	5210	5,210.00731	-0.00000140
		58	5290	5,289.99126	0.00000165
		106	5530	5,529.99025	0.00000176
		122	5610	5,609.99991	0.00000002
		155	5775		1.00000000
	3.27V	42	5210	5,209.94995	0.00000961
		58	5290	5,289.99085	0.00000173
		106	5530	5,529.95373	0.00000837
		122	5610	5,609.99378	0.00000111
		155	5775		1.00000000
25	3.85V	42	5210	5,210.05479	-0.00001052
		58	5290	5,289.99453	0.00000103
		106	5530	5,530.00864	-0.00000156
		122	5610	5,609.99749	0.00000045
		155	5775		1.00000000
55	4.43V	42	5210	5,209.94695	0.00001018
		58	5290	5,290.00222	-0.00000042
		106	5530	5,529.99879	0.00000022
		122	5610	5,609.99528	0.00000084
		155	5775		1.00000000
	3.27V	42	5210	5,209.99430	0.00000109
		58	5290	5,290.04938	-0.00000933
		106	5530	5,529.94778	0.00000944
		122	5610	5,610.00990	-0.00000176
		155	5775		1.00000000

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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

An embedded-in antenna design is used.

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

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

~ End of Report ~

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