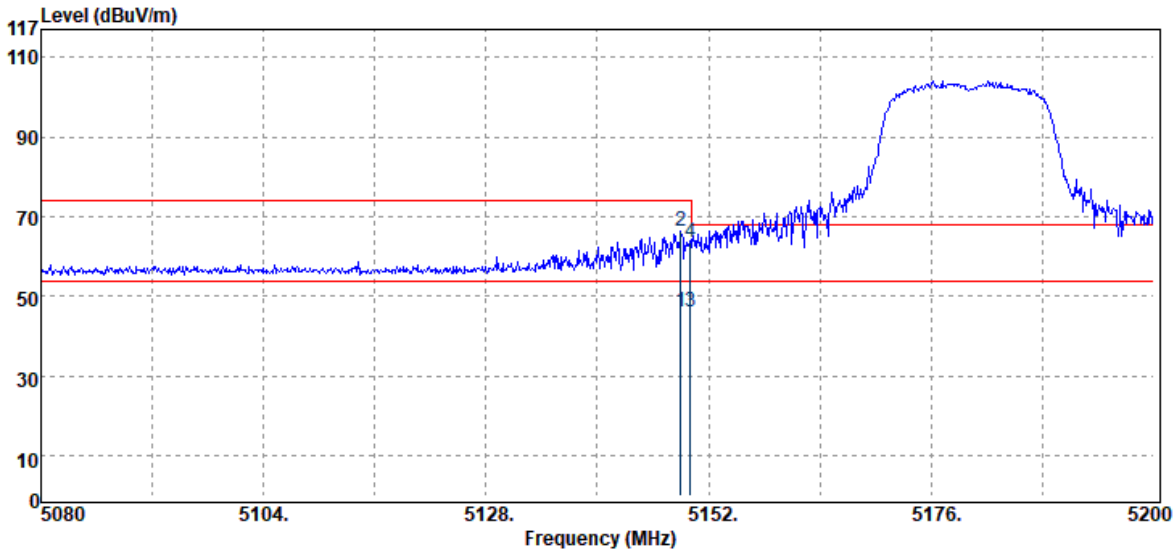


Report Number :ER/2019/B0067
Operation Mode :802.11n20B1
Test Channel :5180 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-25
Temp./Humi. :22.8/66
Antenna Pol. :HORIZONTAL
Engineer :Thomas



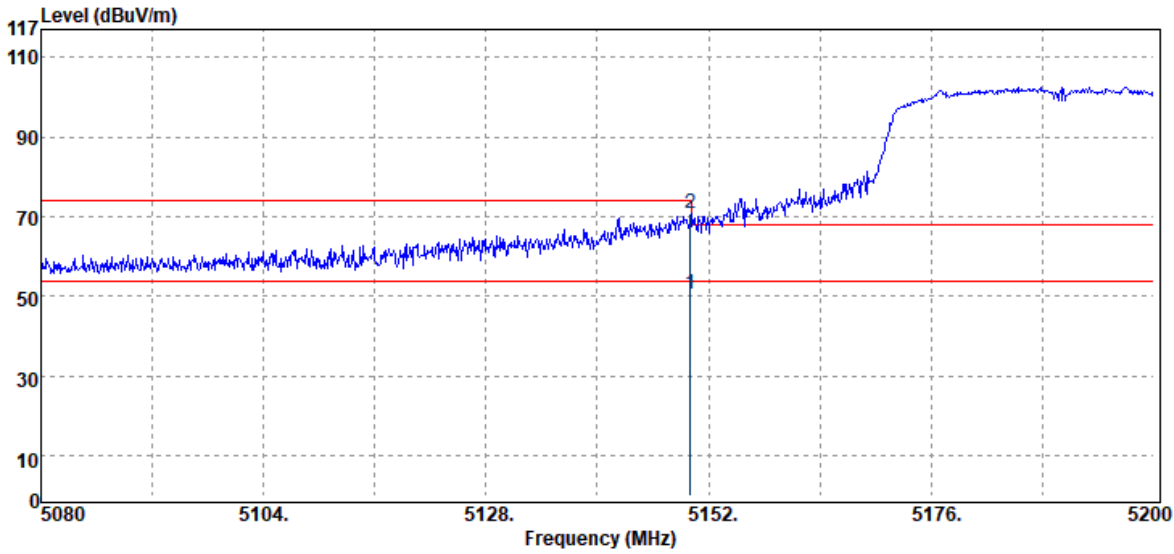
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5149.00	Average	39.10	7.12	46.22	54.00	-7.78
5149.00	Peak	59.11	7.12	66.23	74.00	-7.77
5150.00	Average	38.91	7.10	46.01	54.00	-7.99
5150.00	Peak	56.43	7.10	63.53	74.00	-10.47

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Report Number :ER/2019/B0067
Operation Mode :802.11n40B1
Test Channel :5190 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-25
Temp./Humi. :22.8/66
Antenna Pol. :VERTICAL
Engineer :Thomas



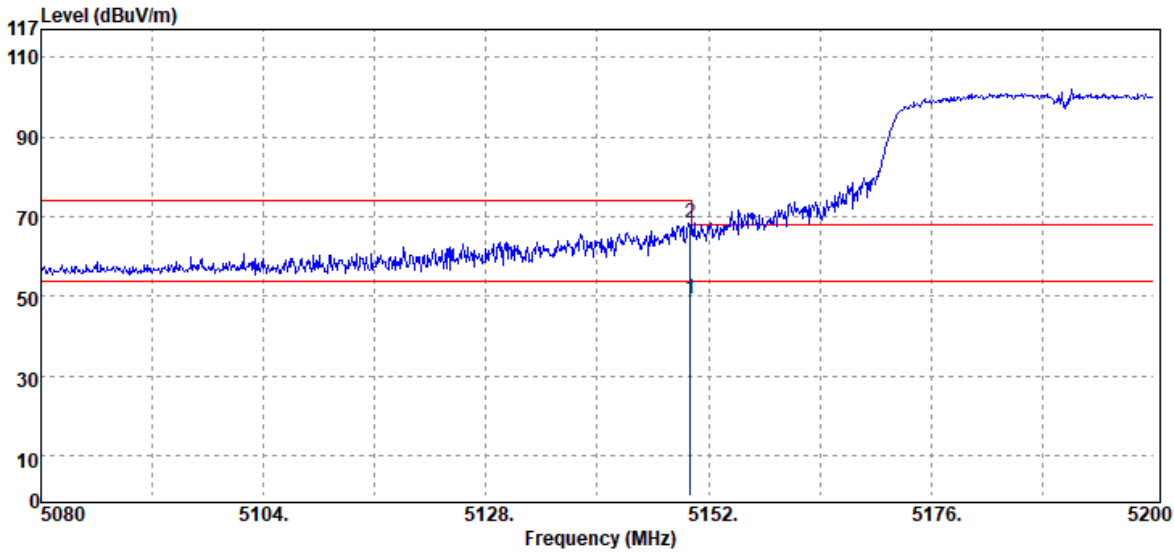
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	43.42	7.10	50.52	54.00	-3.48
5150.00	Peak	63.77	7.10	70.87	74.00	-3.13

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Report Number :ER/2019/B0067
Operation Mode :802.11n40B1
Test Channel :5190 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-25
Temp./Humi. :22.8/66
Antenna Pol. :HORIZONTAL
Engineer :Thomas



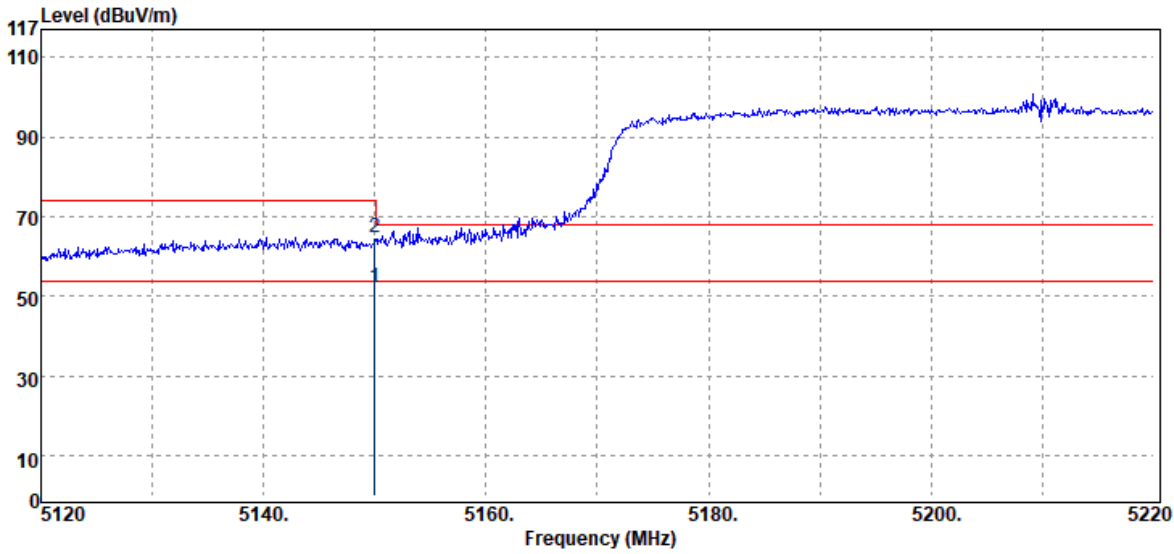
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	42.31	7.10	49.41	54.00	-4.59
5150.00	Peak	61.41	7.10	68.51	74.00	-5.49

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Report Number :ER/2019/B0067
Operation Mode :802.11ac80B1
Test Channel :5210 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-25
Temp./Humi. :22.8/66
Antenna Pol. :VERTICAL
Engineer :Thomas



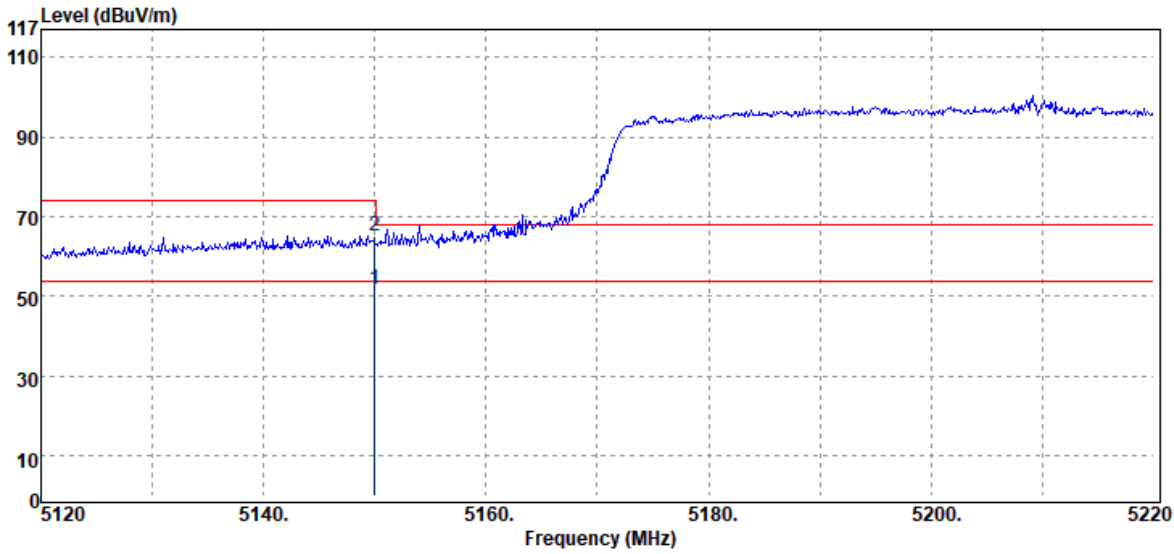
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	45.01	7.10	52.11	54.00	-1.89
5150.00	Peak	57.60	7.10	64.70	74.00	-9.30

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Report Number :ER/2019/B0067
 Operation Mode :802.11ac80B1
 Test Channel :5210 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Date :2019-12-25
 Temp./Humi. :22.8/66
 Antenna Pol. :HORIZONTAL
 Engineer :Thomas

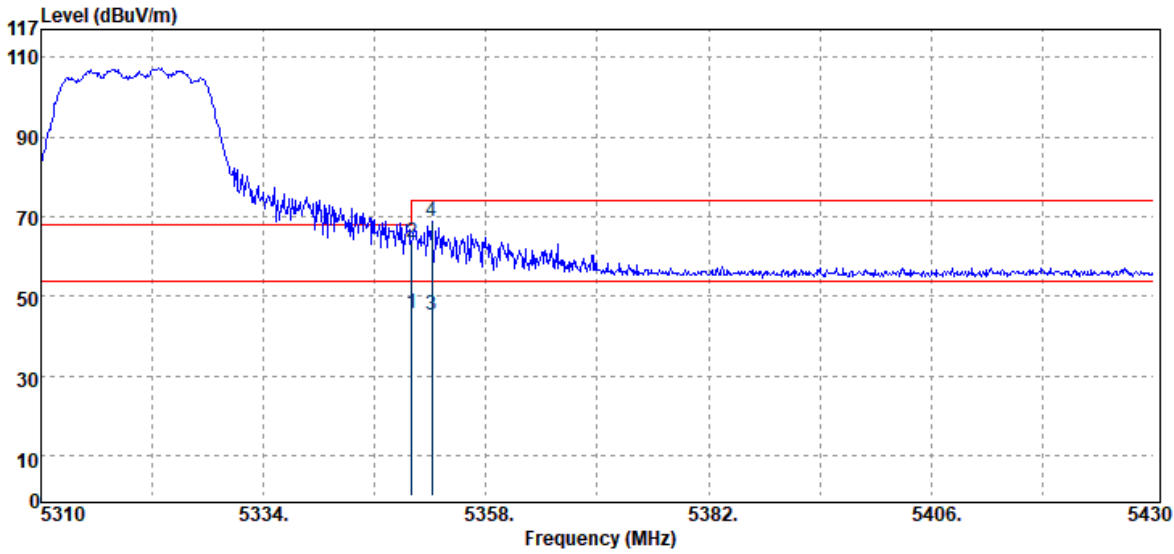


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	44.87	7.10	51.97	54.00	-2.03
5150.00	Peak	58.17	7.10	65.27	74.00	-8.73

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Report Number	:ER/2019/B0067	Test Date	:2019-12-25
Operation Mode	:802.11aB2	Temp./Humi.	:22.8/66
Test Channel	:5320 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Thomas
EUT Pol	:E2 Plane		



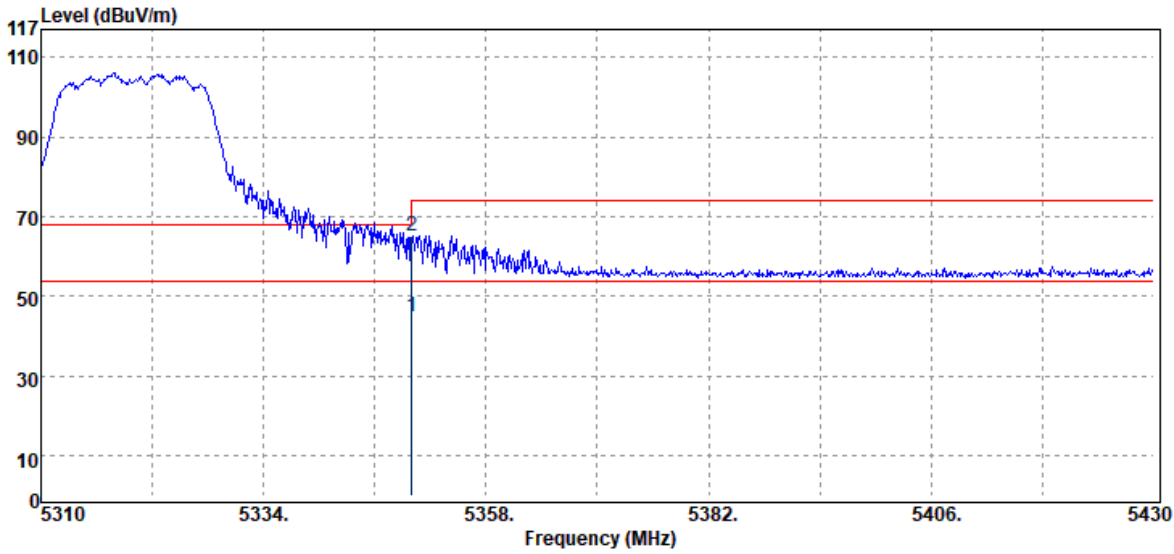
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5350.00	Average	39.55	6.21	45.76	54.00	-8.24
5350.00	Peak	57.51	6.21	63.72	74.00	-10.28
5352.12	Average	39.27	6.22	45.49	54.00	-8.51
5352.12	Peak	62.45	6.22	68.67	74.00	-5.33

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Report Number :ER/2019/B0067
Operation Mode :802.11aB2
Test Channel :5320 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-25
Temp./Humi. :22.8/66
Antenna Pol. :HORIZONTAL
Engineer :Thomas

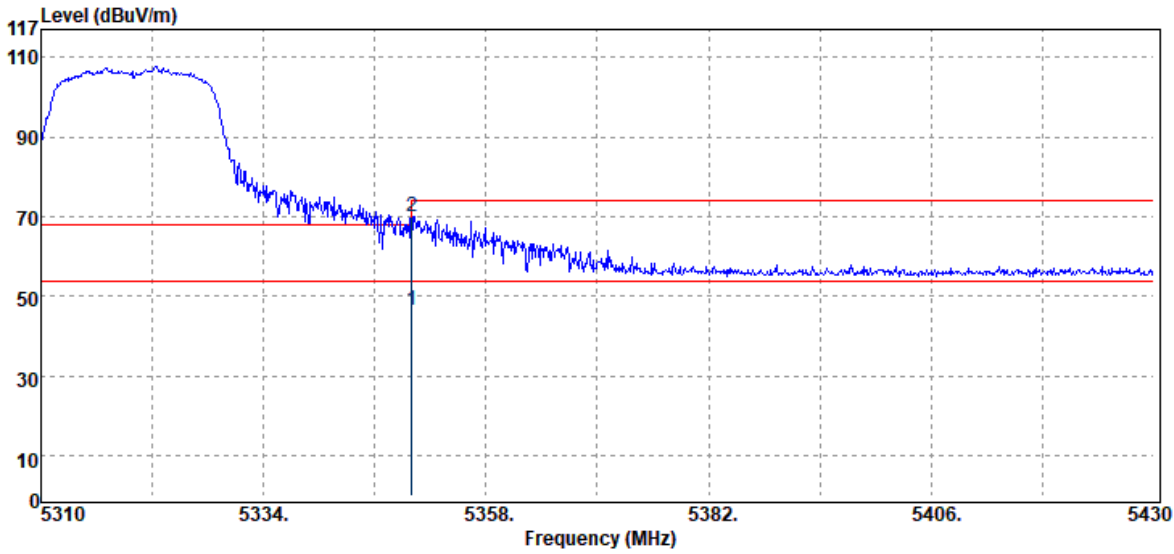


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	38.70	6.21	44.91	54.00	-9.09
5350.00	Peak	59.16	6.21	65.37	74.00	-8.63

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Report Number	:ER/2019/B0067	Test Date	:2019-12-25
Operation Mode	:802.11n20B2	Temp./Humi.	:22.8/66
Test Channel	:5320 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Thomas
EUT Pol	:E2 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	40.35	6.21	46.56	54.00	-7.44
5350.00	Peak	64.00	6.21	70.21	74.00	-3.79

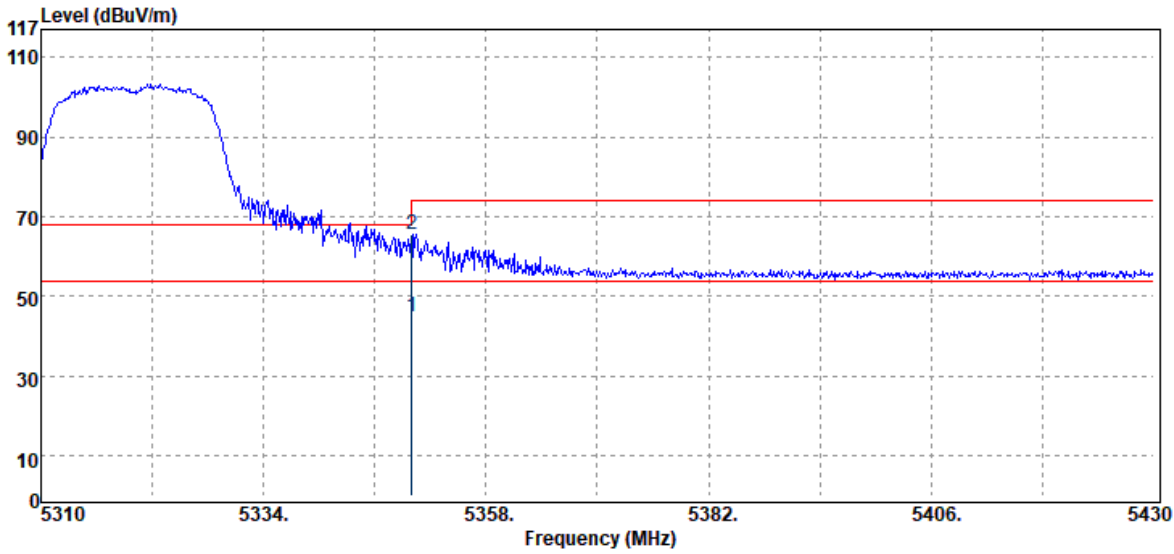
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Report Number :ER/2019/B0067
Operation Mode :802.11n20B2
Test Channel :5320 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-25
Temp./Humi. :22.8/66
Antenna Pol. :HORIZONTAL
Engineer :Thomas

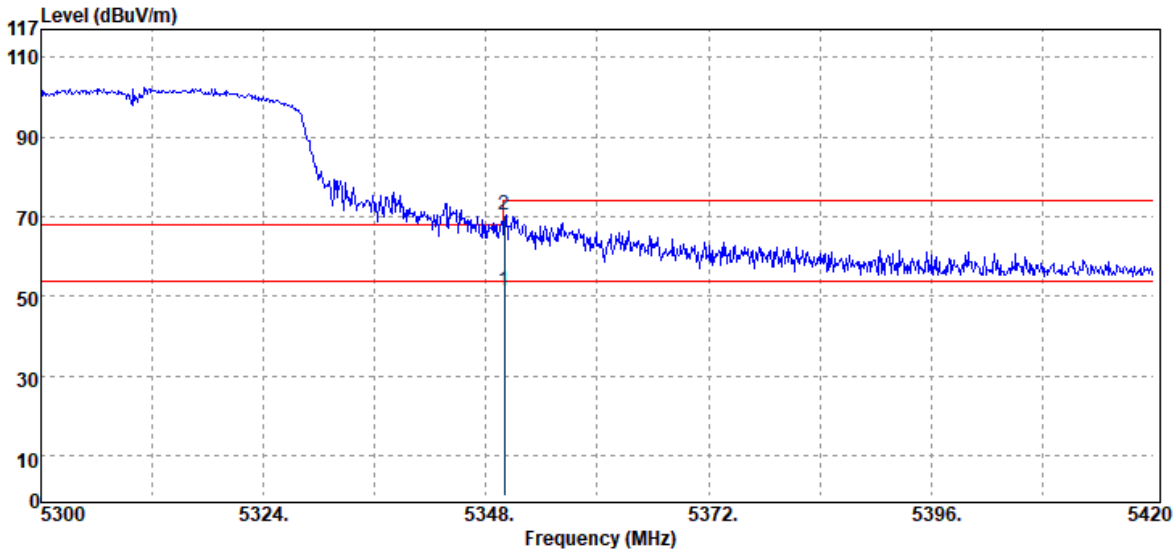


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	38.85	6.21	45.06	54.00	-8.94
5350.00	Peak	59.54	6.21	65.75	74.00	-8.25

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Report Number	:ER/2019/B0067	Test Date	:2019-12-25
Operation Mode	:802.11n40B2	Temp./Humi.	:22.8/66
Test Channel	:5310 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Thomas
EUT Pol	:E2 Plane		



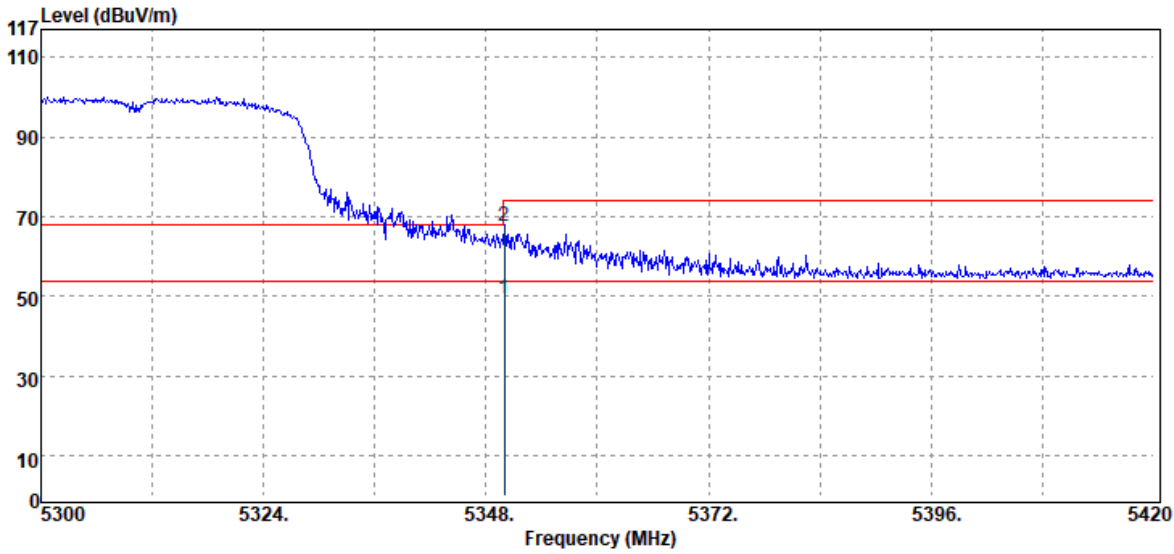
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	45.06	6.21	51.27	54.00	-2.73
5350.00	Peak	64.24	6.21	70.45	74.00	-3.55

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Report Number :ER/2019/B0067
Operation Mode :802.11n40B2
Test Channel :5310 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-25
Temp./Humi. :22.8/66
Antenna Pol. :HORIZONTAL
Engineer :Thomas

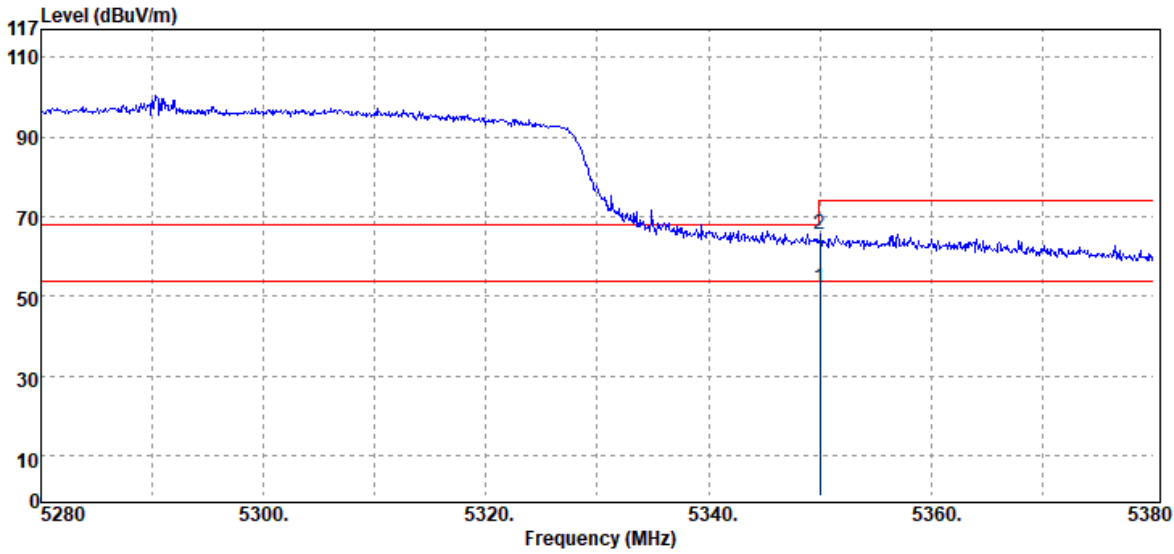


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	43.20	6.21	49.41	54.00	-4.59
5350.00	Peak	61.57	6.21	67.78	74.00	-6.22

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Report Number	:ER/2019/B0067	Test Date	:2019-12-25
Operation Mode	:802.11ac80B2	Temp./Humi.	:22.8/66
Test Channel	:5290 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Thomas
EUT Pol	:E2 Plane		



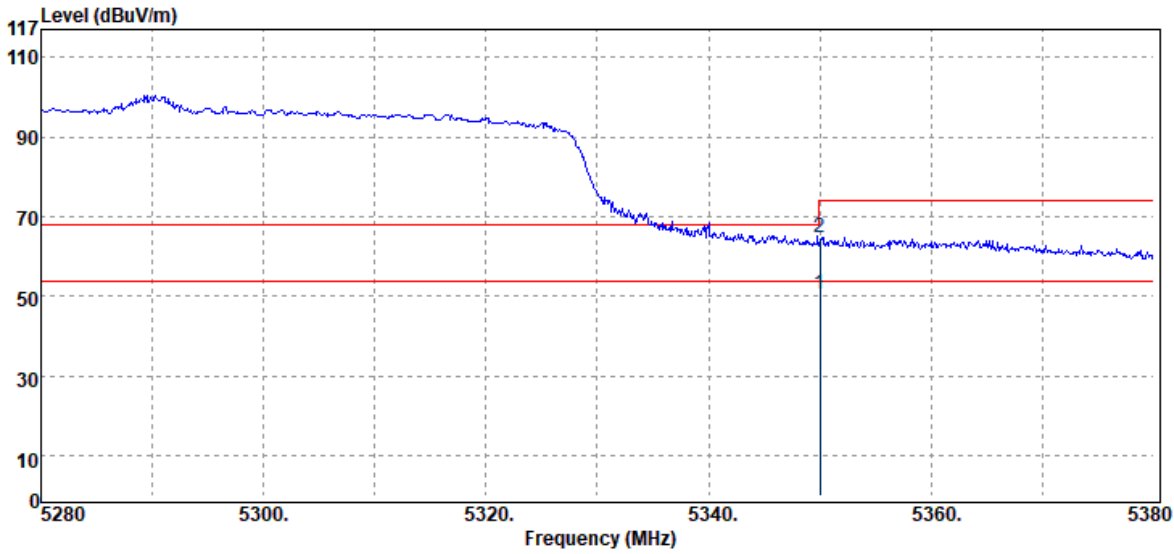
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	45.89	6.21	52.10	54.00	-1.90
5350.00	Peak	59.27	6.21	65.48	74.00	-8.52

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Report Number :ER/2019/B0067
Operation Mode :802.11ac80B2
Test Channel :5290 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-25
Temp./Humi. :22.8/66
Antenna Pol. :HORIZONTAL
Engineer :Thomas



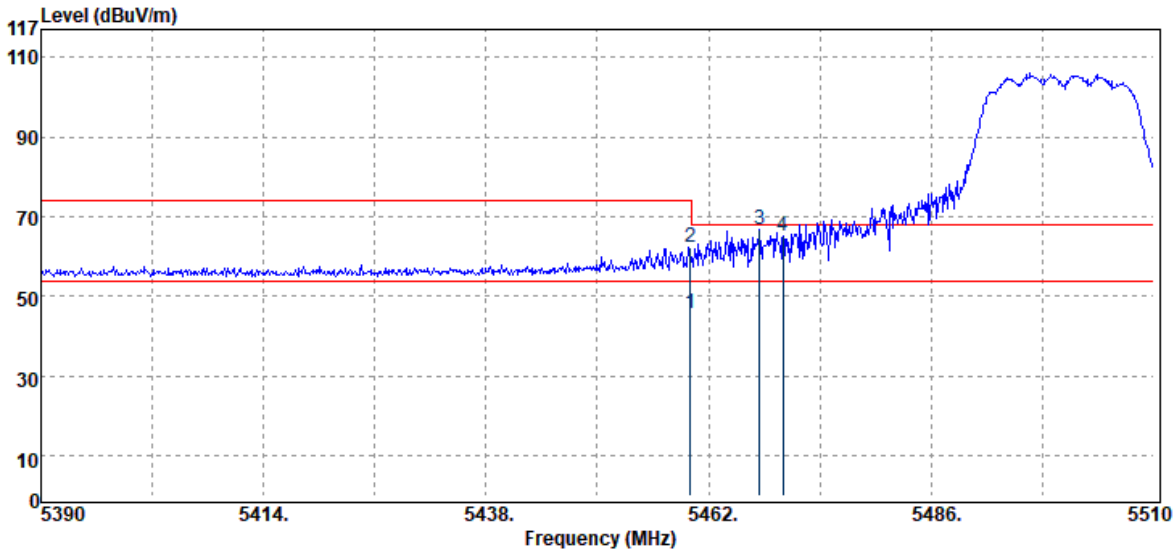
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	44.51	6.21	50.72	54.00	-3.28
5350.00	Peak	58.66	6.21	64.87	74.00	-9.13

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Report Number :ER/2019/B0067
 Operation Mode :802.11aB3
 Test Channel :5500 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Date :2019-12-25
 Temp./Humi. :22.8/66
 Antenna Pol. :VERTICAL
 Engineer :Thomas



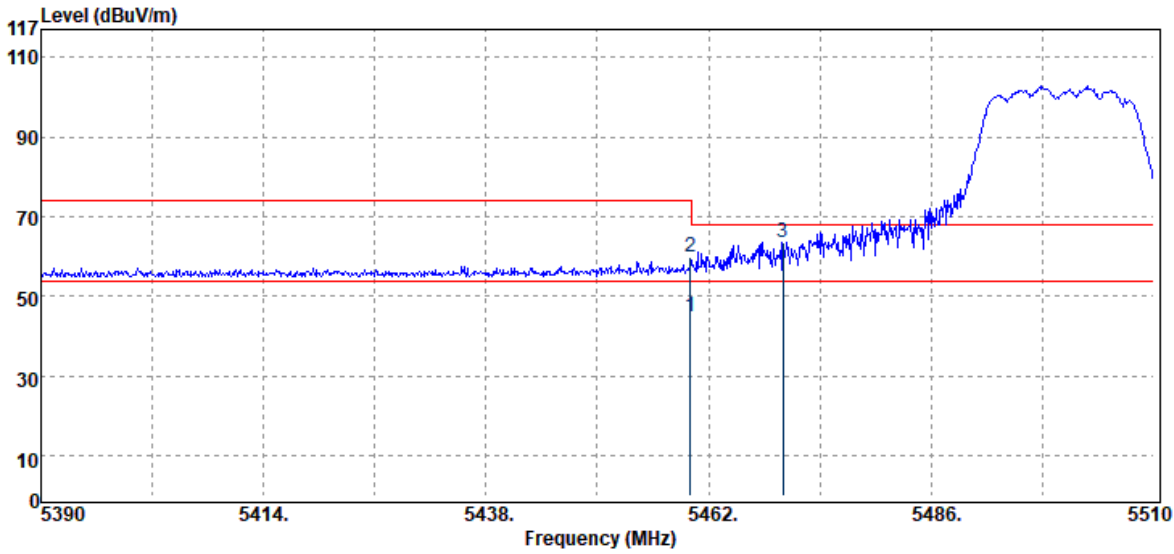
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	39.00	6.69	45.69	54.00	-8.31
5460.00	Peak	55.63	6.69	62.32	74.00	-11.68
5467.52	Peak	60.16	6.75	66.91	68.20	-1.29
5470.00	Peak	58.60	6.77	65.37	68.20	-2.83

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Report Number :ER/2019/B0067
 Operation Mode :802.11aB3
 Test Channel :5500 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Date :2019-12-25
 Temp./Humi. :22.8/66
 Antenna Pol. :HORIZONTAL
 Engineer :Thomas

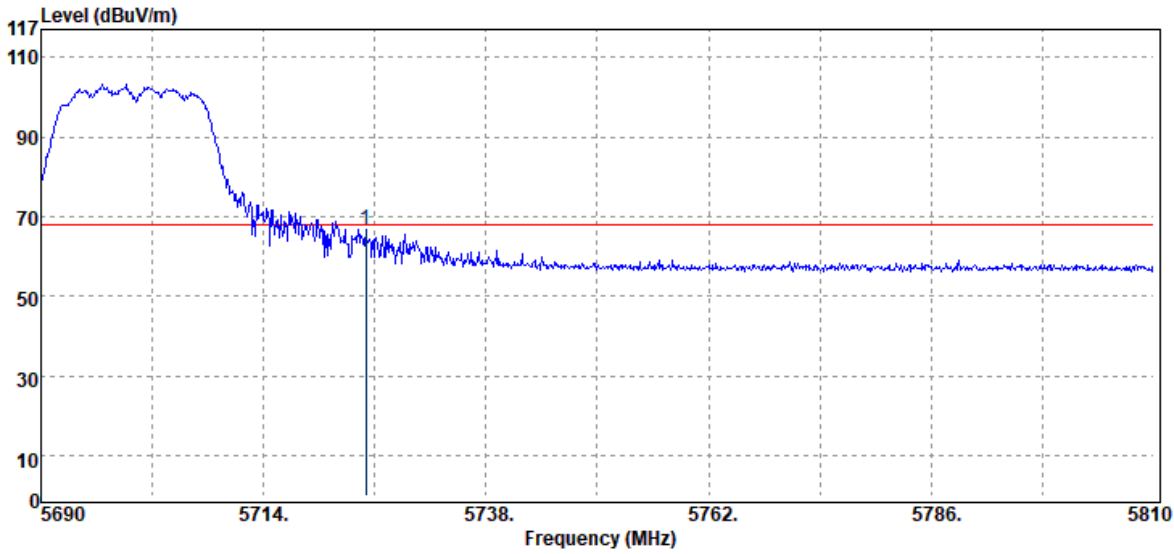


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	38.32	6.69	45.01	54.00	-8.99
5460.00	Peak	53.30	6.69	59.99	74.00	-14.01
5470.00	Peak	56.91	6.77	63.68	68.20	-4.52

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Report Number	:ER/2019/B0067	Test Date	:2019-12-25
Operation Mode	:802.11aB3	Temp./Humi.	:22.8/66
Test Channel	:5700 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Thomas
EUT Pol	:E2 Plane		



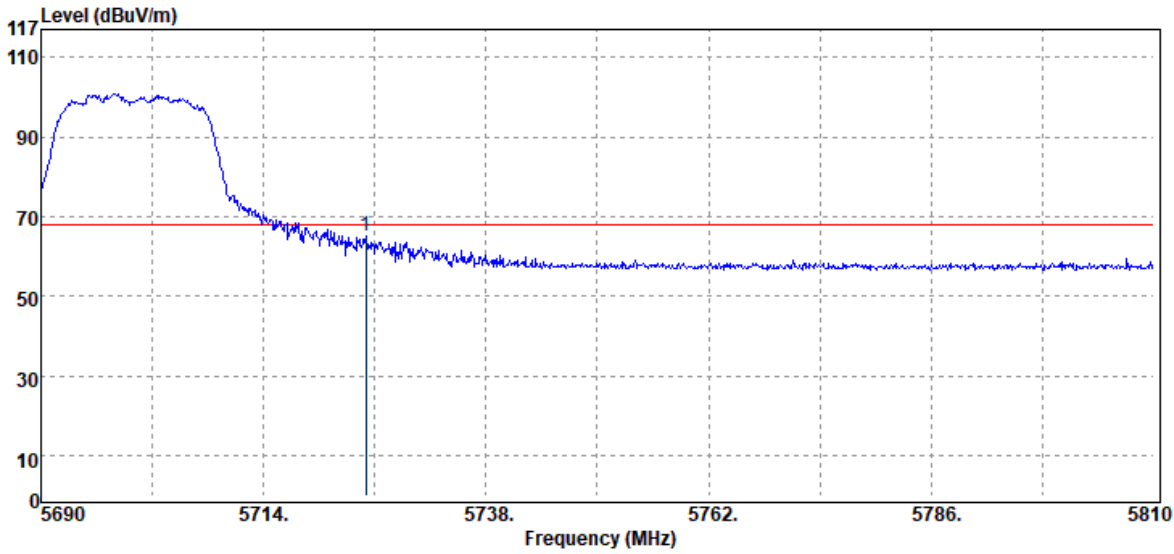
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5725.00	Peak	59.45	7.53	66.98	68.20	-1.22

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Report Number :ER/2019/B0067
Operation Mode :802.11aB3
Test Channel :5700 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-25
Temp./Humi. :22.8/66
Antenna Pol. :HORIZONTAL
Engineer :Thomas



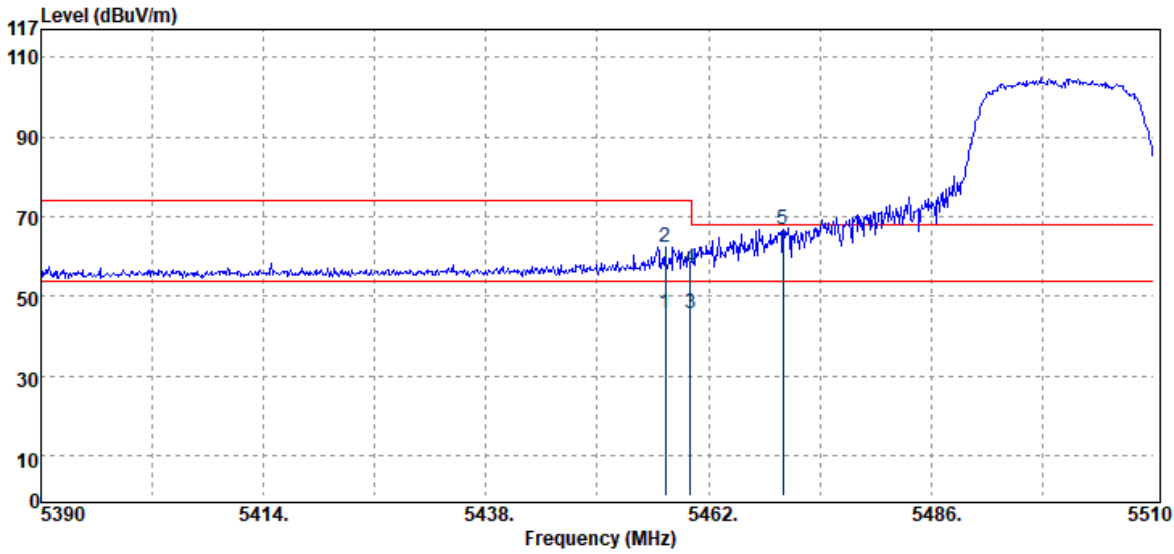
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	57.46	7.53	64.99	68.20	-3.21

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Report Number :ER/2019/B0067
Operation Mode :802.11n20B3
Test Channel :5500 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-25
Temp./Humi. :22.8/66
Antenna Pol. :VERTICAL
Engineer :Thomas



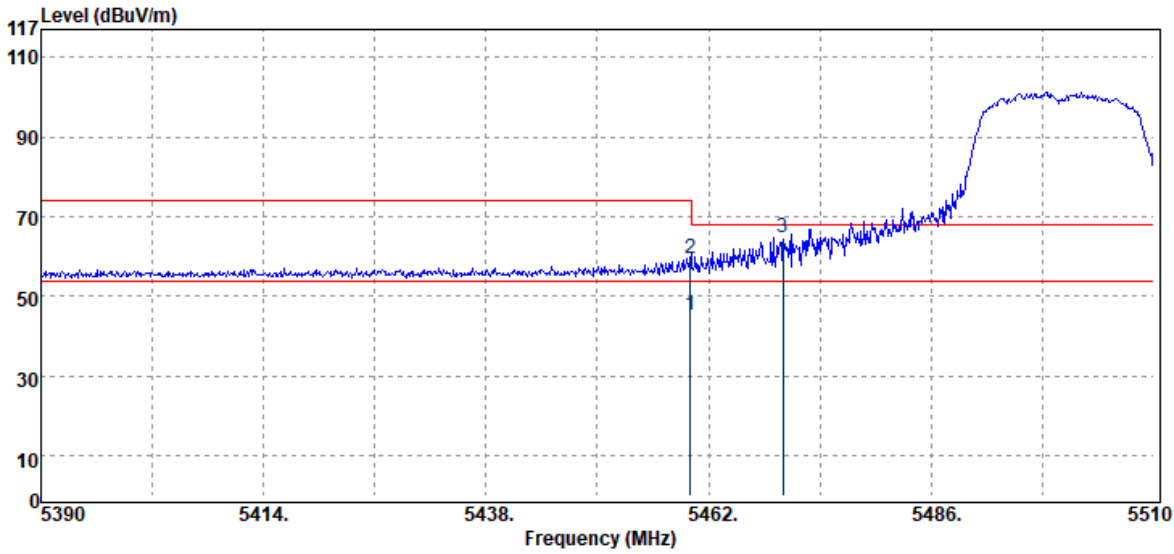
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5457.32	Average	39.00	6.67	45.67	54.00	-8.33
5457.32	Peak	55.57	6.67	62.24	74.00	-11.76
5460.00	Average	39.21	6.69	45.90	54.00	-8.10
5460.00	Peak	50.51	6.69	57.20	74.00	-16.80
5470.00	Peak	60.16	6.77	66.93	68.20	-1.27

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Report Number :ER/2019/B0067
Operation Mode :802.11n20B3
Test Channel :5500 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-25
Temp./Humi. :22.8/66
Antenna Pol. :HORIZONTAL
Engineer :Thomas

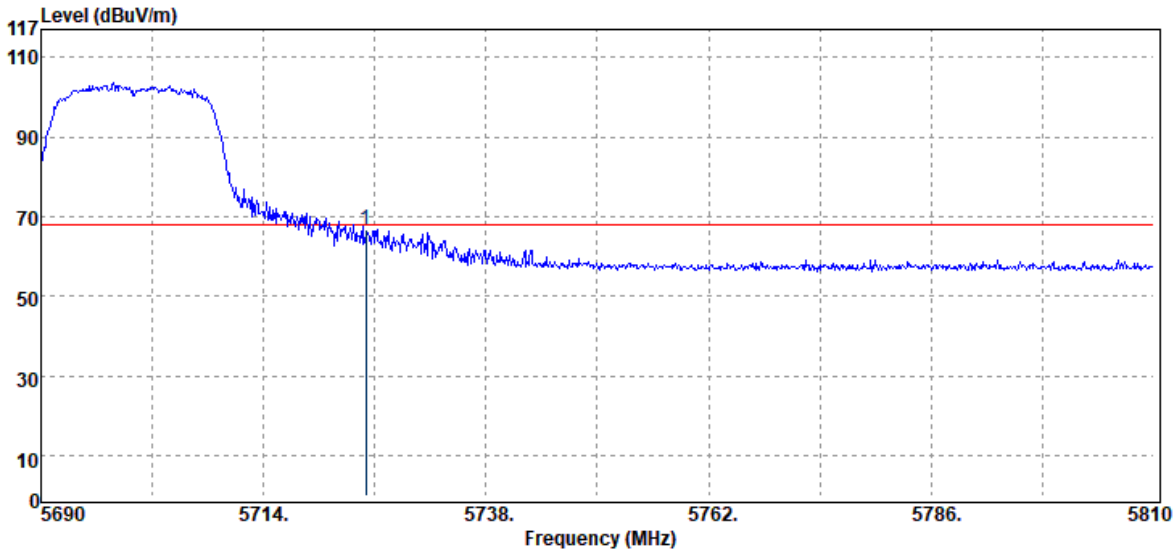


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	38.55	6.69	45.24	54.00	-8.76
5460.00	Peak	52.69	6.69	59.38	74.00	-14.62
5470.00	Peak	57.90	6.77	64.67	68.20	-3.53

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Report Number	:ER/2019/B0067	Test Date	:2019-12-26
Operation Mode	:802.11n20B3	Temp./Humi.	:23.5/64
Test Channel	:5700 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Thomas
EUT Pol	:E2 Plane		



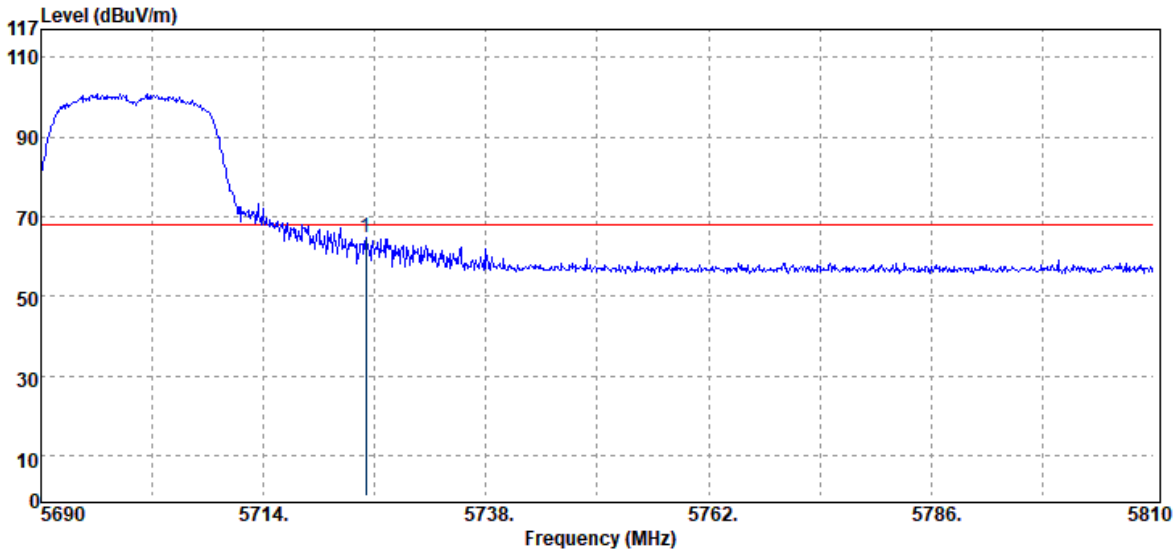
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	59.18	7.53	66.71	68.20	-1.49

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Report Number :ER/2019/B0067
Operation Mode :802.11n20B3
Test Channel :5700 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-26
Temp./Humi. :23.5/64
Antenna Pol. :HORIZONTAL
Engineer :Thomas

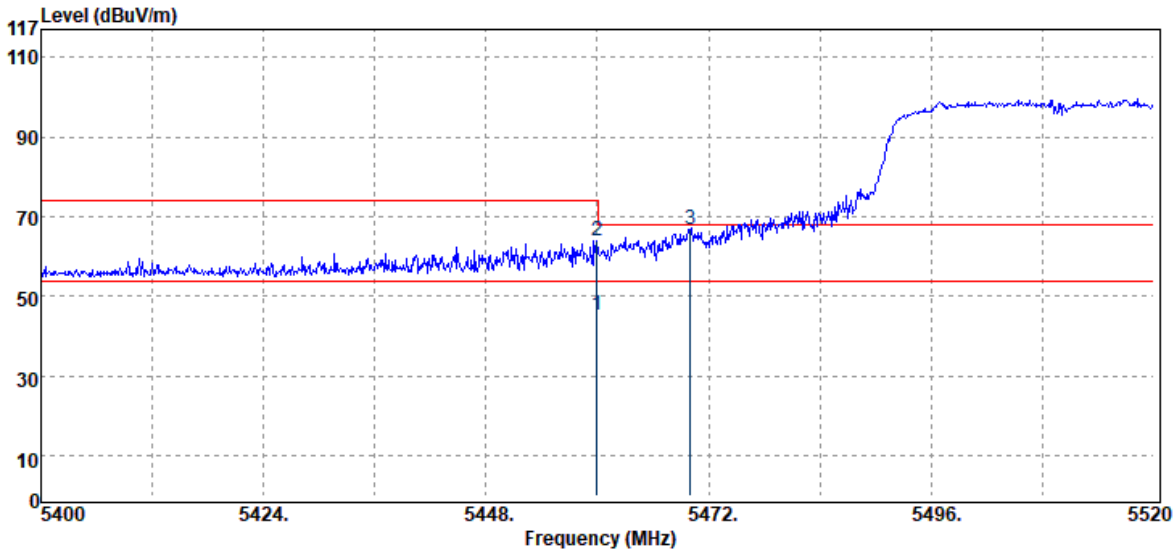


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	57.42	7.53	64.95	68.20	-3.25

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Report Number	:ER/2019/B0067	Test Date	:2019-12-26
Operation Mode	:802.11n40B3	Temp./Humi.	:23.5/64
Test Channel	:5510 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Thomas
EUT Pol	:E2 Plane		



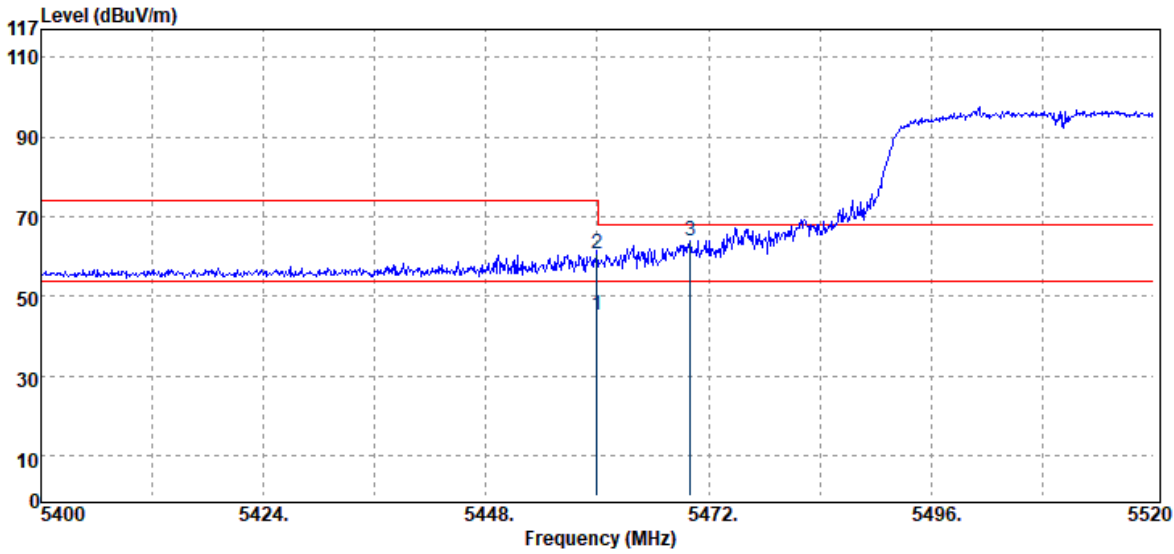
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	38.71	6.69	45.40	54.00	-8.60
5460.00	Peak	57.28	6.69	63.97	74.00	-10.03
5470.00	Peak	60.20	6.77	66.97	68.20	-1.23

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Report Number :ER/2019/B0067
Operation Mode :802.11n40B3
Test Channel :5510 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-26
Temp./Humi. :23.5/64
Antenna Pol. :HORIZONTAL
Engineer :Thomas

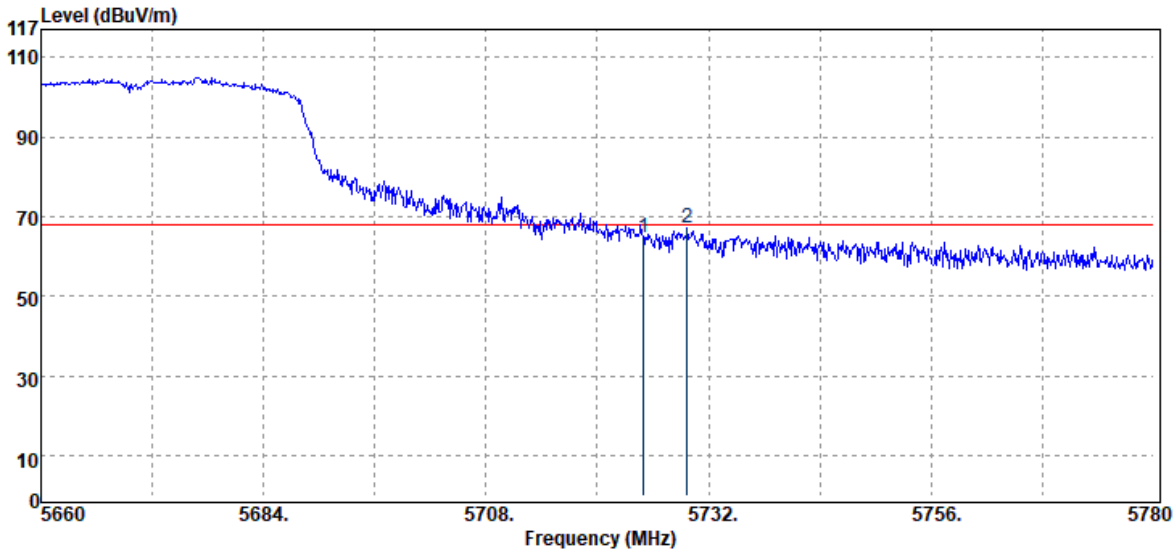


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	38.45	6.69	45.14	54.00	-8.86
5460.00	Peak	54.22	6.69	60.91	74.00	-13.09
5470.00	Peak	57.18	6.77	63.95	68.20	-4.25

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Report Number	:ER/2019/B0067	Test Date	:2019-12-26
Operation Mode	:802.11n40B3	Temp./Humi.	:23.5/64
Test Channel	:5670 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Thomas
EUT Pol	:E2 Plane		



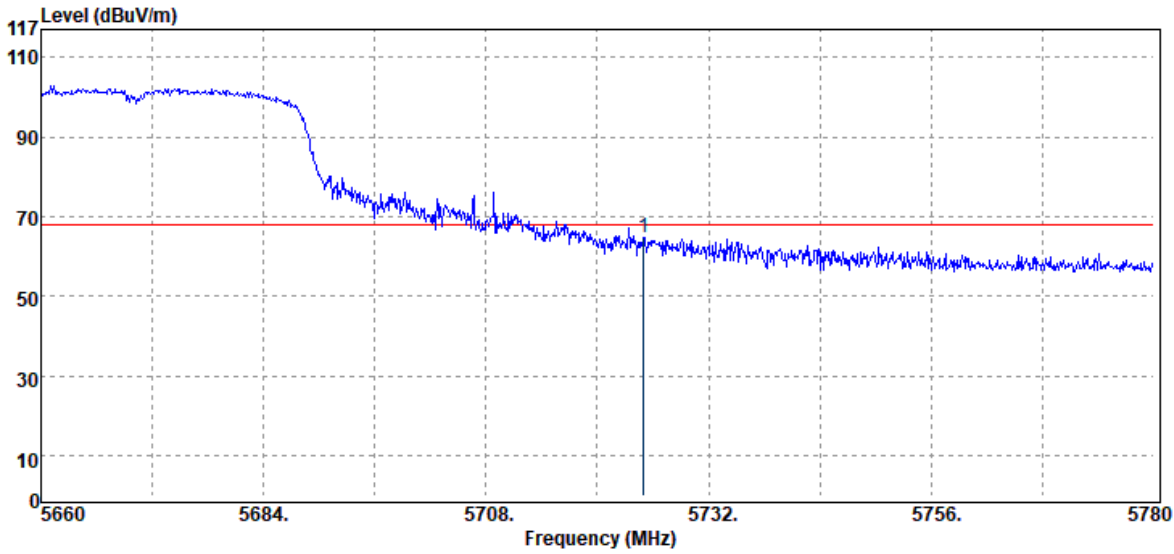
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	57.29	7.53	64.82	68.20	-3.38
5729.72	Peak	59.52	7.53	67.05	68.20	-1.15

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Report Number :ER/2019/B0067
 Operation Mode :802.11n40B3
 Test Channel :5670 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Date :2019-12-26
 Temp./Humi. :23.5/64
 Antenna Pol. :HORIZONTAL
 Engineer :Thomas

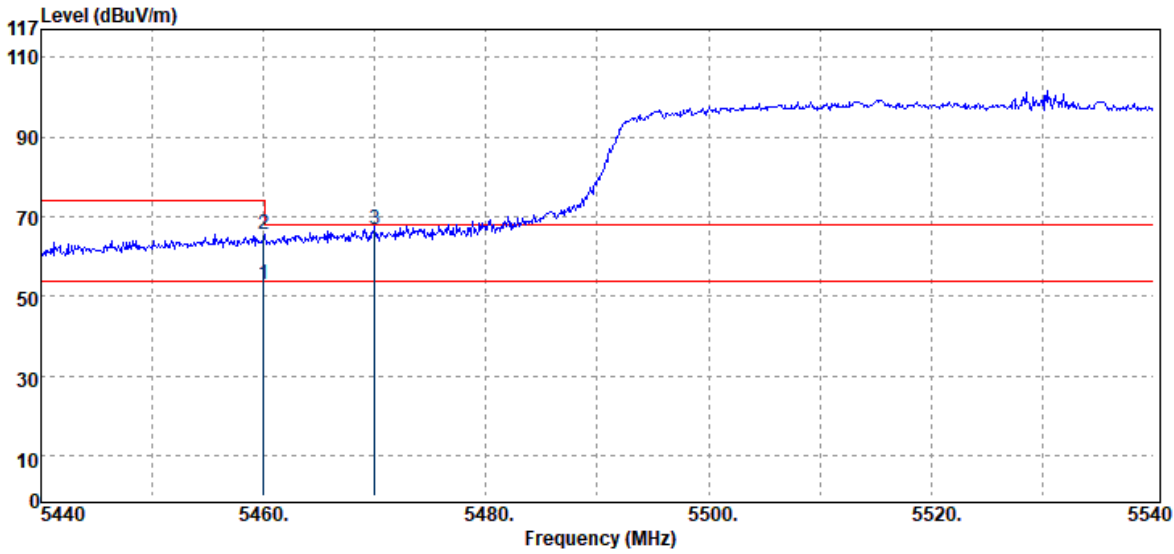


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	57.22	7.53	64.75	68.20	-3.45

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Report Number	:ER/2019/B0067	Test Date	:2019-12-26
Operation Mode	:802.11ac80B3	Temp./Humi.	:23.5/64
Test Channel	:5530 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Thomas
EUT Pol	:E2 Plane		



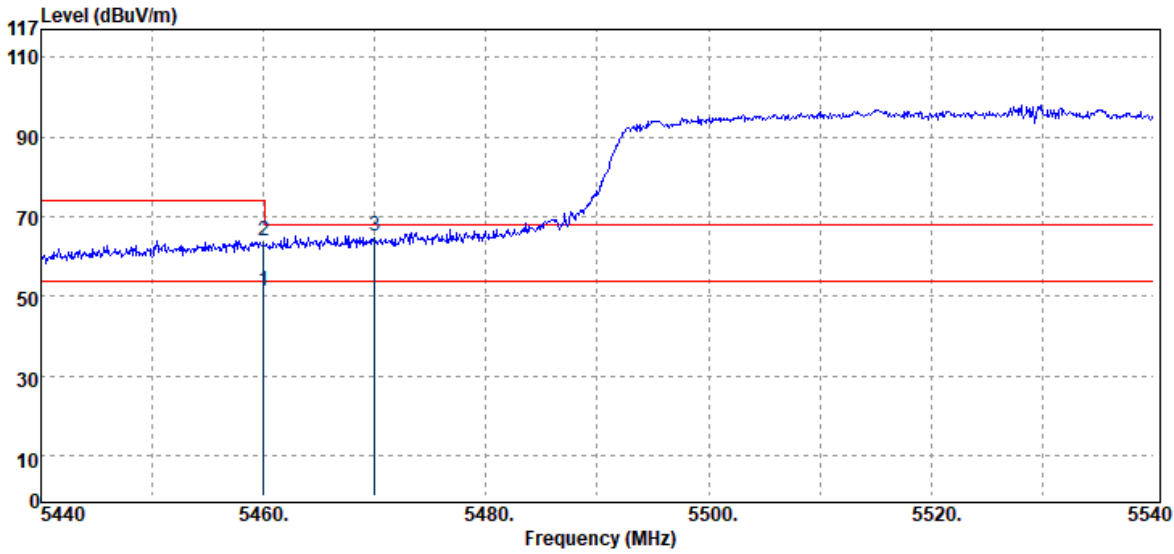
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	46.25	6.69	52.94	54.00	-1.06
5460.00	Peak	58.77	6.69	65.46	74.00	-8.54
5470.00	Peak	60.13	6.77	66.90	68.20	-1.30

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Report Number :ER/2019/B0067
 Operation Mode :802.11ac80B3
 Test Channel :5530 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Date :2019-12-26
 Temp./Humi. :23.5/64
 Antenna Pol. :HORIZONTAL
 Engineer :Thomas

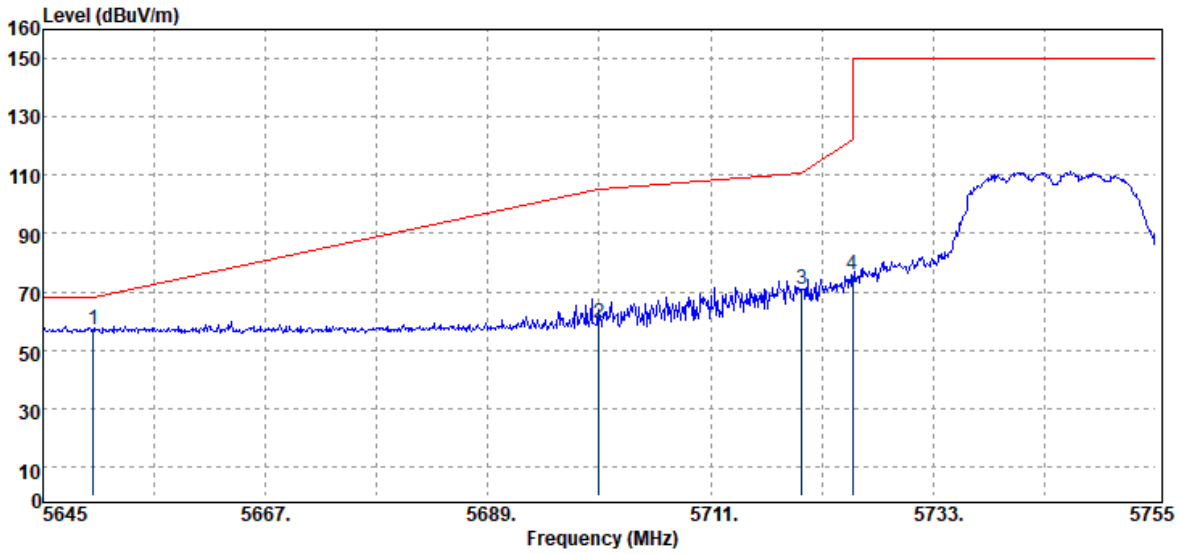


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	44.65	6.69	51.34	54.00	-2.66
5460.00	Peak	57.46	6.69	64.15	74.00	-9.85
5470.00	Peak	58.42	6.77	65.19	68.20	-3.01

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Report Number	:ER/2019/B0067	Test Date	:2019-12-26
Operation Mode	:802.11aB4	Temp./Humi.	:23.5/64
Test Channel	:5745 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Thomas
EUT Pol	:E2 Plane		



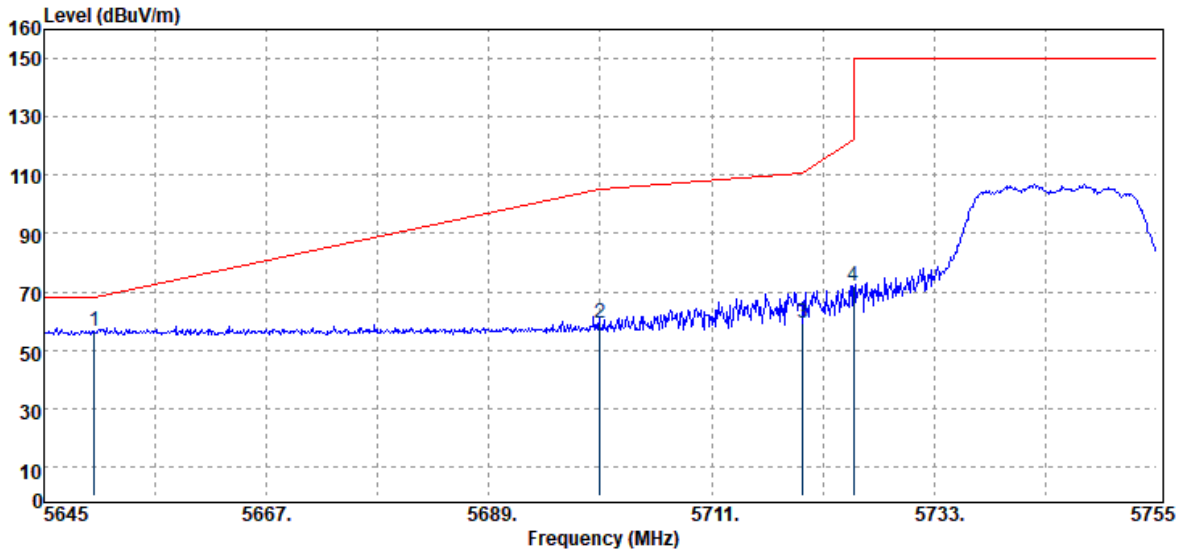
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5650.00	Peak	50.17	7.02	57.19	68.20	-11.01
5700.00	Peak	51.91	7.54	59.45	105.20	-45.75
5720.00	Peak	63.49	7.53	71.02	110.80	-39.78
5725.00	Peak	68.13	7.53	75.66	122.20	-46.54

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Report Number :ER/2019/B0067
Operation Mode :802.11aB4
Test Channel :5745 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-26
Temp./Humi. :23.5/64
Antenna Pol. :HORIZONTAL
Engineer :Thomas

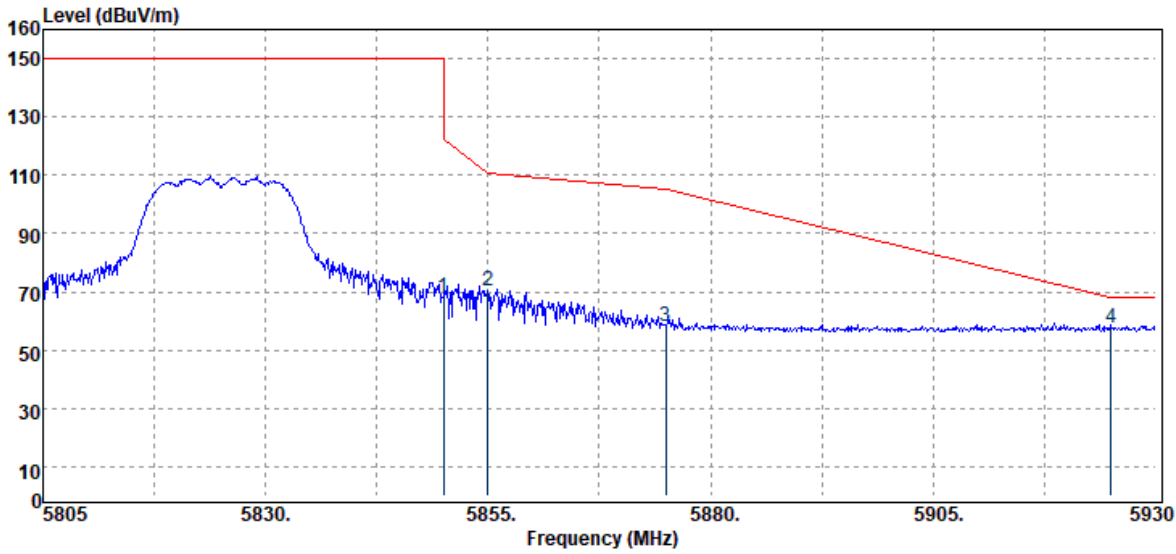


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	49.39	7.02	56.41	68.20	-11.79
5700.00	Peak	51.66	7.54	59.20	105.20	-46.00
5720.00	Peak	51.67	7.53	59.20	110.80	-51.60
5725.00	Peak	64.31	7.53	71.84	122.20	-50.36

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Report Number	:ER/2019/B0067	Test Date	:2019-12-26
Operation Mode	:802.11aB4	Temp./Humi.	:23.5/64
Test Channel	:5825 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH LHigh	Engineer	:Thomas
EUT Pol	:E2 Plane		

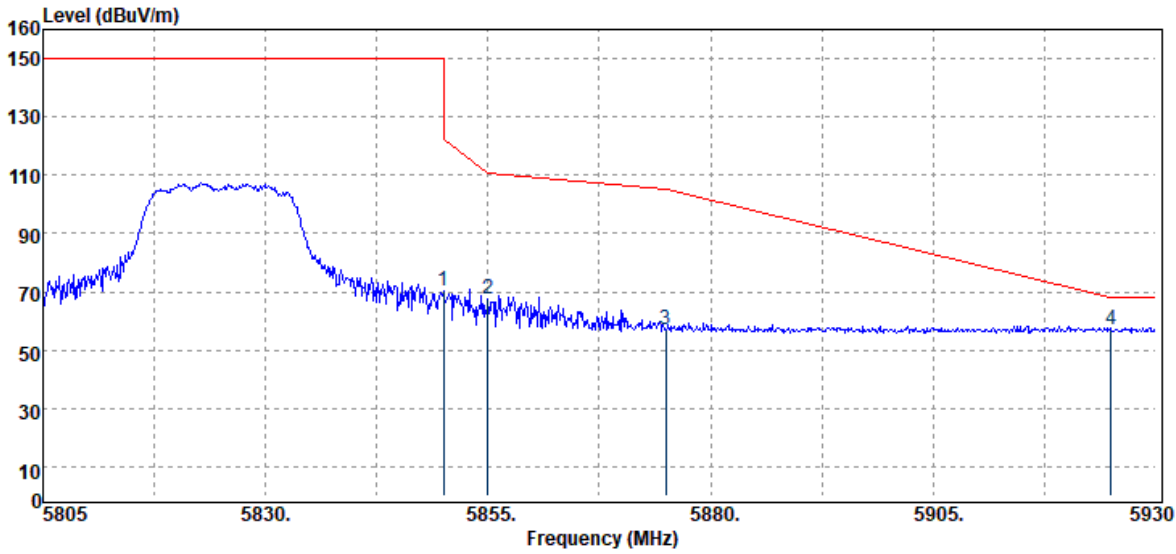


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5850.00	Peak	60.41	7.76	68.17	122.20	-54.03
5855.00	Peak	62.47	7.77	70.24	110.80	-40.56
5875.00	Peak	50.20	7.83	58.03	105.20	-47.17
5925.00	Peak	49.44	7.97	57.41	68.20	-10.79

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Report Number	:ER/2019/B0067	Test Date	:2019-12-26
Operation Mode	:802.11aB4	Temp./Humi.	:23.5/64
Test Channel	:5825 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Bandedge CH LHigh	Engineer	:Thomas
EUT Pol	:E2 Plane		



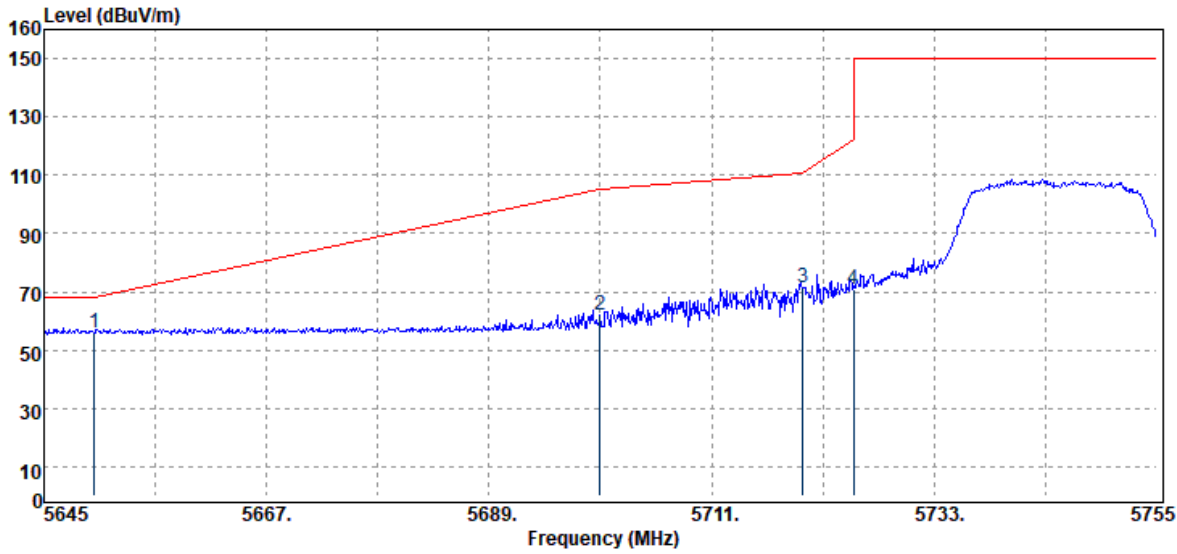
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5850.00	Peak	62.76	7.76	70.52	122.20	-51.68
5855.00	Peak	60.04	7.77	67.81	110.80	-42.99
5875.00	Peak	49.32	7.83	57.15	105.20	-48.05
5925.00	Peak	49.11	7.97	57.08	68.20	-11.12

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Report Number :ER/2019/B0067
 Operation Mode :802.11n20B4
 Test Channel :5745 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Date :2019-12-26
 Temp./Humi. :23.5/64
 Antenna Pol. :VERTICAL
 Engineer :Thomas



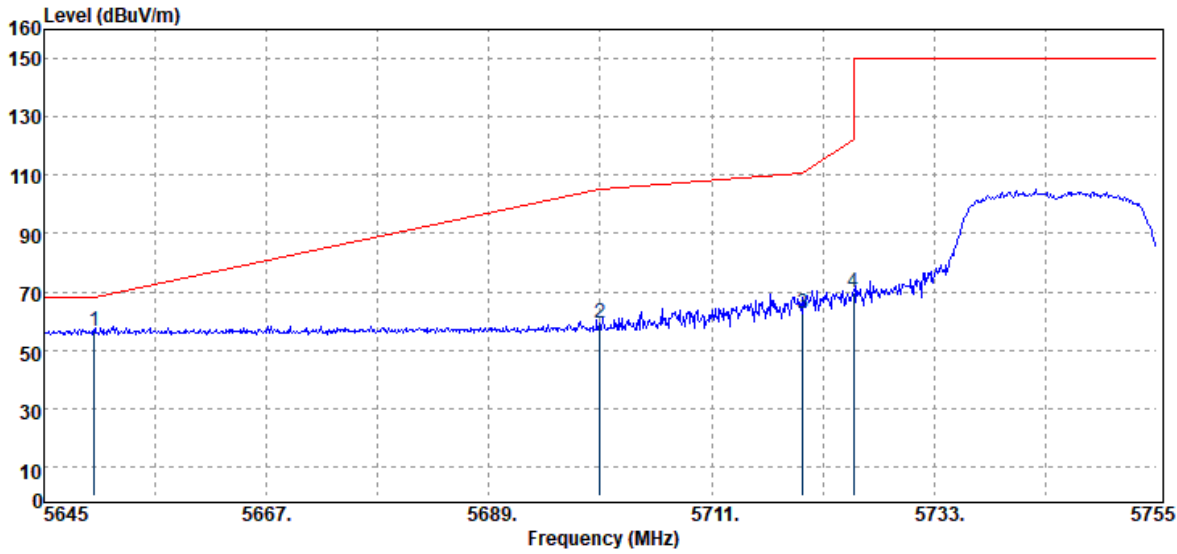
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5650.00	Peak	48.68	7.02	55.70	68.20	-12.50
5700.00	Peak	54.27	7.54	61.81	105.20	-43.39
5720.00	Peak	63.96	7.53	71.49	110.80	-39.31
5725.00	Peak	63.21	7.53	70.74	122.20	-51.46

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Report Number :ER/2019/B0067
 Operation Mode :802.11n20B4
 Test Channel :5745 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Date :2019-12-26
 Temp./Humi. :23.5/64
 Antenna Pol. :HORIZONTAL
 Engineer :Thomas

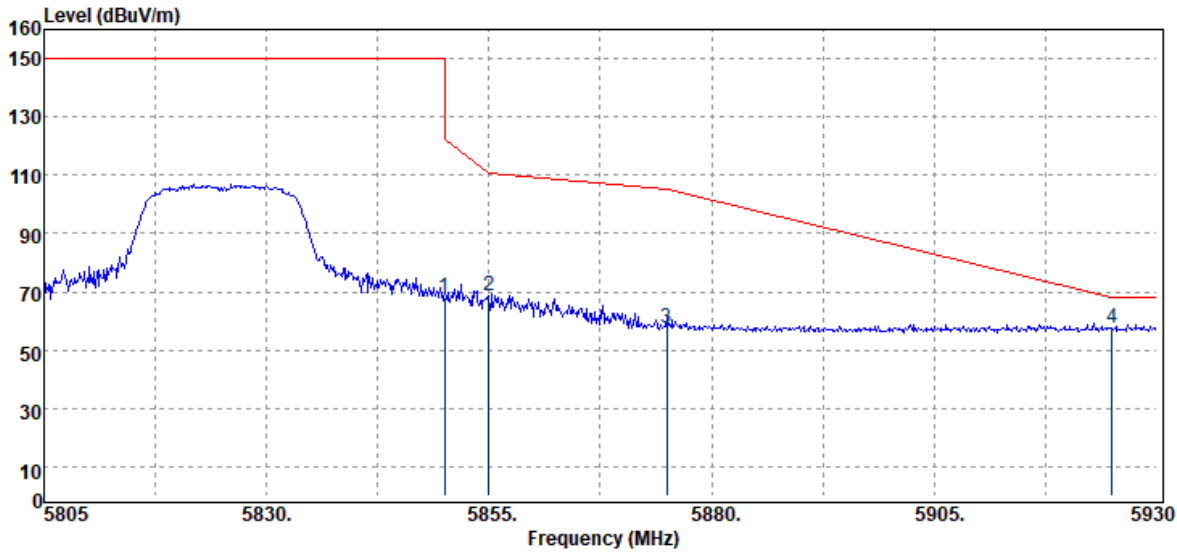


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	49.21	7.02	56.23	68.20	-11.97
5700.00	Peak	51.83	7.54	59.37	105.20	-45.83
5720.00	Peak	55.28	7.53	62.81	110.80	-47.99
5725.00	Peak	61.96	7.53	69.49	122.20	-52.71

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Report Number	:ER/2019/B0067	Test Date	:2019-12-26
Operation Mode	:802.11n20B4	Temp./Humi.	:23.5/64
Test Channel	:5825 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Thomas
EUT Pol	:E2 Plane		



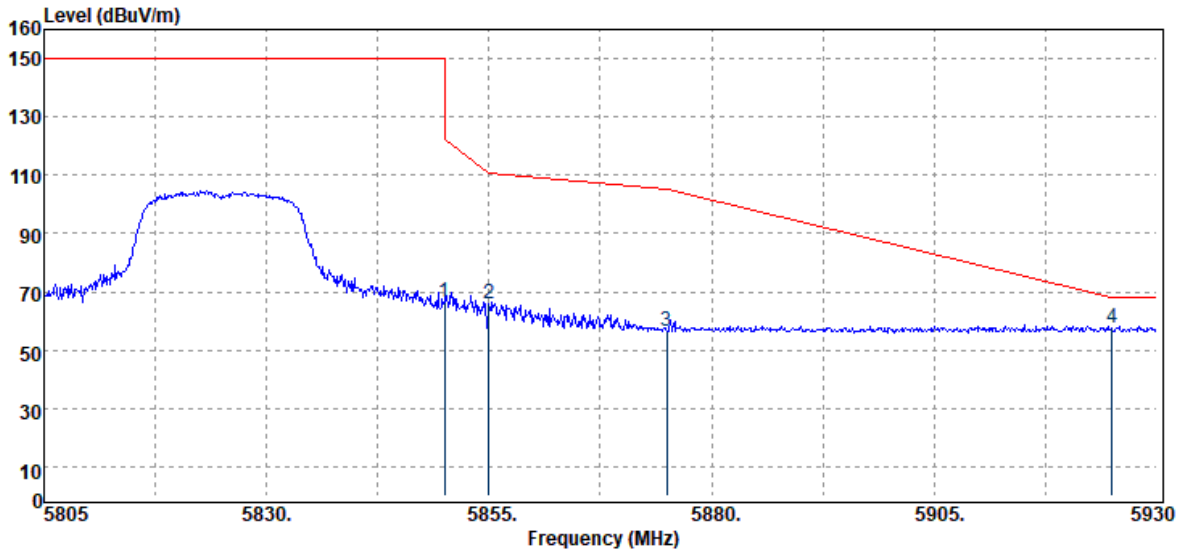
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5850.00	Peak	60.54	7.76	68.30	122.20	-53.90
5855.00	Peak	61.00	7.77	68.77	110.80	-42.03
5875.00	Peak	49.93	7.83	57.76	105.20	-47.44
5925.00	Peak	49.68	7.97	57.65	68.20	-10.55

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Report Number :ER/2019/B0067
 Operation Mode :802.11n20B4
 Test Channel :5825 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Date :2019-12-26
 Temp./Humi. :23.5/64
 Antenna Pol. :HORIZONTAL
 Engineer :Thomas

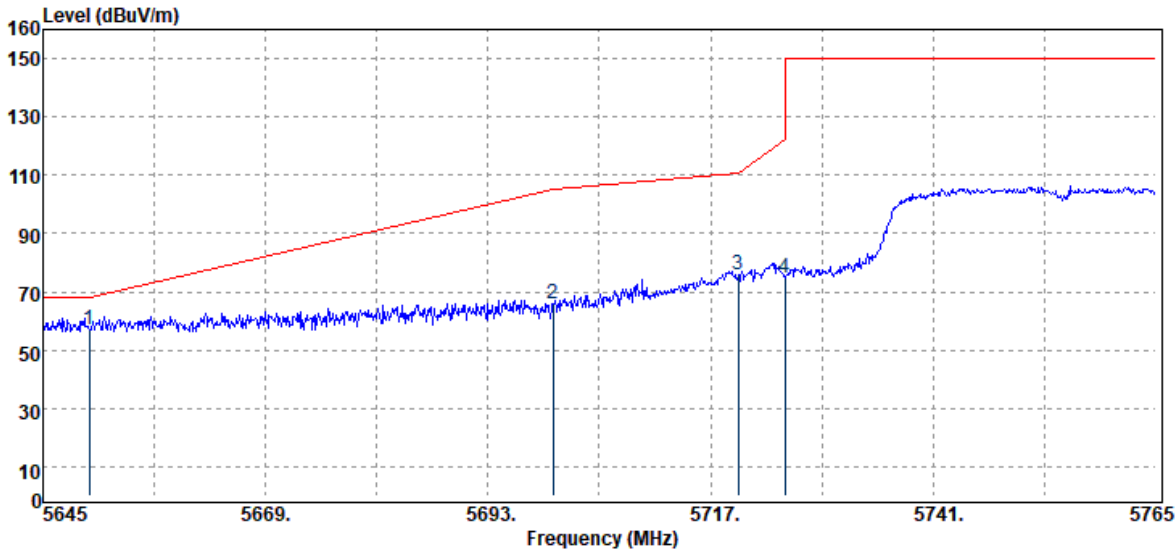


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	58.78	7.76	66.54	122.20	-55.66
5855.00	Peak	58.23	7.77	66.00	110.80	-44.80
5875.00	Peak	48.91	7.83	56.74	105.20	-48.46
5925.00	Peak	49.74	7.97	57.71	68.20	-10.49

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Report Number	:ER/2019/B0067	Test Date	:2019-12-26
Operation Mode	:802.11n40B4	Temp./Humi.	:23.5/64
Test Channel	:5755 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Thomas
EUT Pol	:E2 Plane		



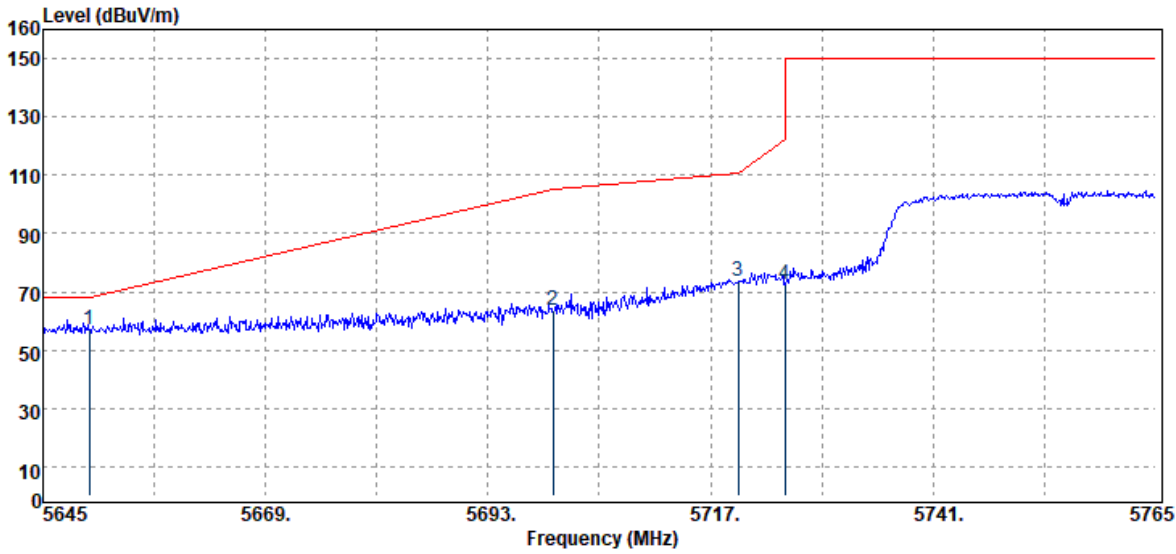
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	49.83	7.02	56.85	68.20	-11.35
5700.00	Peak	58.41	7.54	65.95	105.20	-39.25
5720.00	Peak	68.42	7.53	75.95	110.80	-34.85
5725.00	Peak	67.17	7.53	74.70	122.20	-47.50

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Report Number :ER/2019/B0067
Operation Mode :802.11n40B4
Test Channel :5755 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-26
Temp./Humi. :23.5/64
Antenna Pol. :HORIZONTAL
Engineer :Thomas

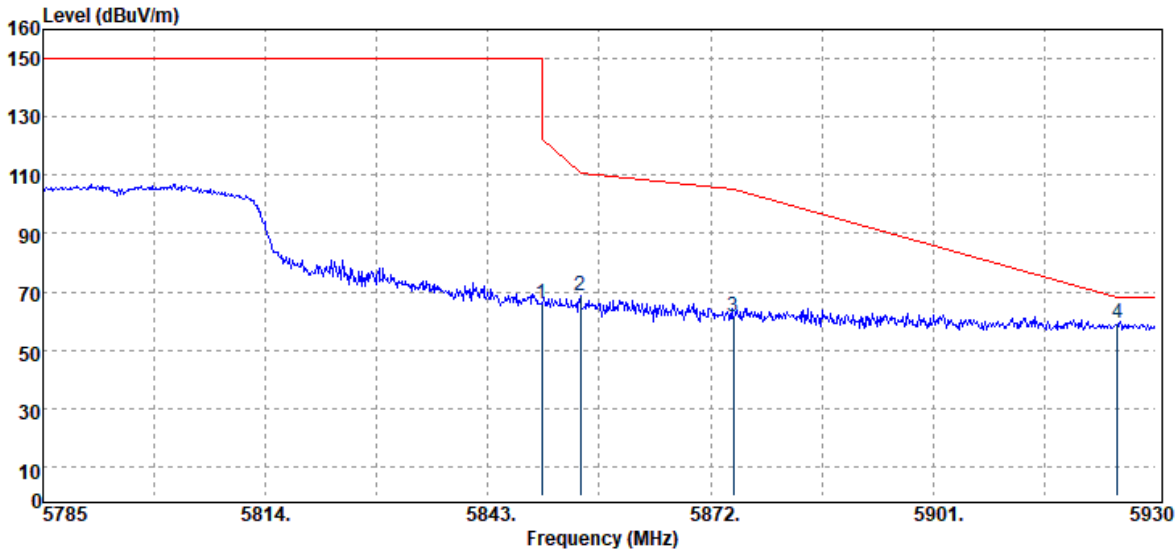


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5650.00	Peak	50.00	7.02	57.02	68.20	-11.18
5700.00	Peak	56.30	7.54	63.84	105.20	-41.36
5720.00	Peak	66.04	7.53	73.57	110.80	-37.23
5725.00	Peak	65.25	7.53	72.78	122.20	-49.42

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Report Number	:ER/2019/B0067	Test Date	:2019-12-26
Operation Mode	:802.11n40B4	Temp./Humi.	:23.5/64
Test Channel	:5795 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH High	Engineer	:Thomas
EUT Pol	:E2 Plane		



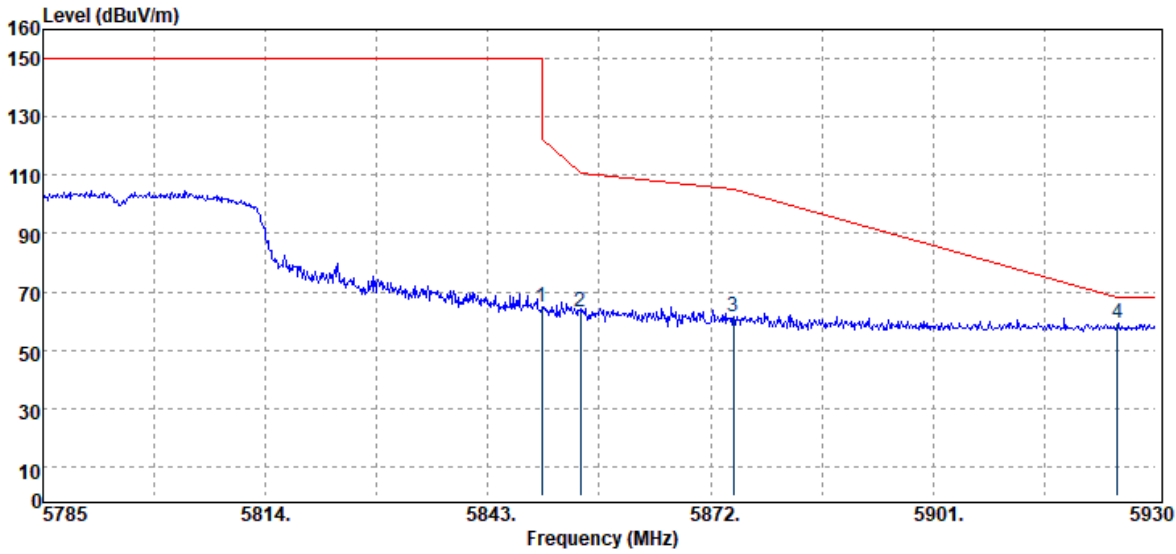
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5850.00	Peak	58.37	7.76	66.13	122.20	-56.07
5855.00	Peak	61.04	7.77	68.81	110.80	-41.99
5875.00	Peak	53.71	7.83	61.54	105.20	-43.66
5925.00	Peak	51.29	7.97	59.26	68.20	-8.94

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Report Number :ER/2019/B0067
 Operation Mode :802.11n40B4
 Test Channel :5795 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Date :2019-12-26
 Temp./Humi. :23.5/64
 Antenna Pol. :HORIZONTAL
 Engineer :Thomas

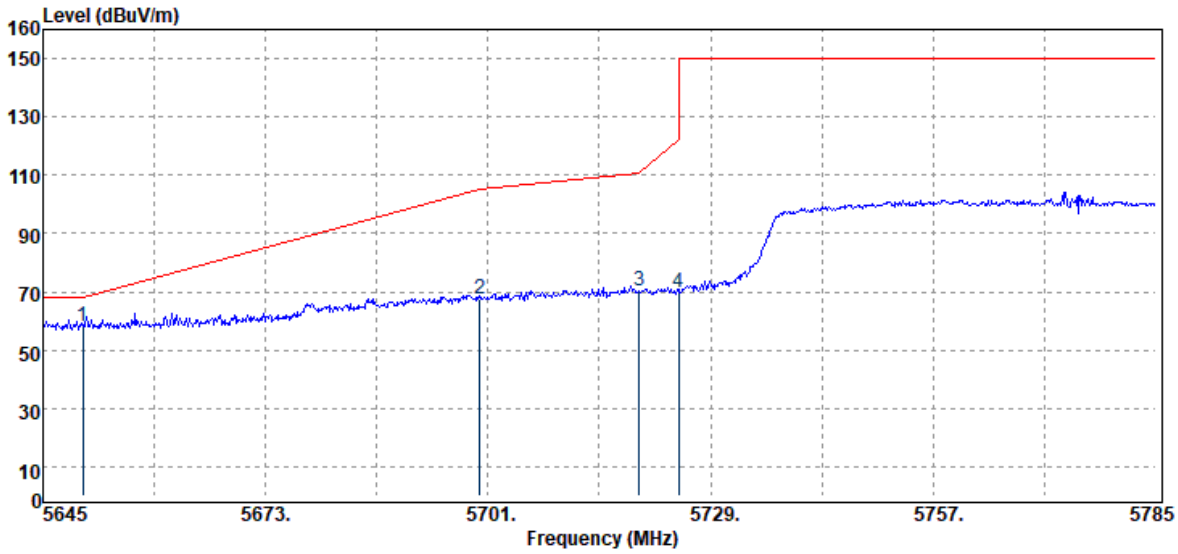


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5850.00	Peak	56.82	7.76	64.58	122.20	-57.62
5855.00	Peak	55.45	7.77	63.22	110.80	-47.58
5875.00	Peak	53.51	7.83	61.34	105.20	-43.86
5925.00	Peak	51.52	7.97	59.49	68.20	-8.71

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Report Number	:ER/2019/B0067	Test Date	:2019-12-26
Operation Mode	:802.11ac80B4	Temp./Humi.	:23.5/64
Test Channel	:5775 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Bandedge CH Low	Engineer	:Thomas
EUT Pol	:E2 Plane		



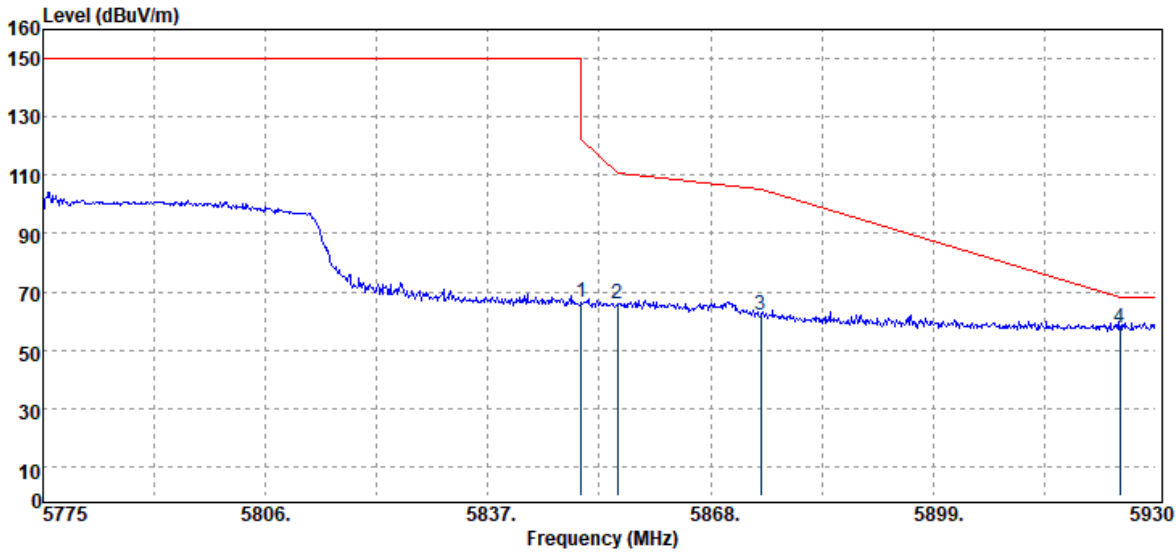
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	51.09	7.02	58.11	68.20	-10.09
5700.00	Peak	59.90	7.54	67.44	105.20	-37.76
5720.00	Peak	62.86	7.53	70.39	110.80	-40.41
5725.00	Peak	62.17	7.53	69.70	122.20	-52.50

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Report Number :ER/2019/B0067
Operation Mode :802.11ac80B4
Test Channel :5775 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-12-26
Temp./Humi. :23.5/64
Antenna Pol. :VERTICAL
Engineer :Thomas



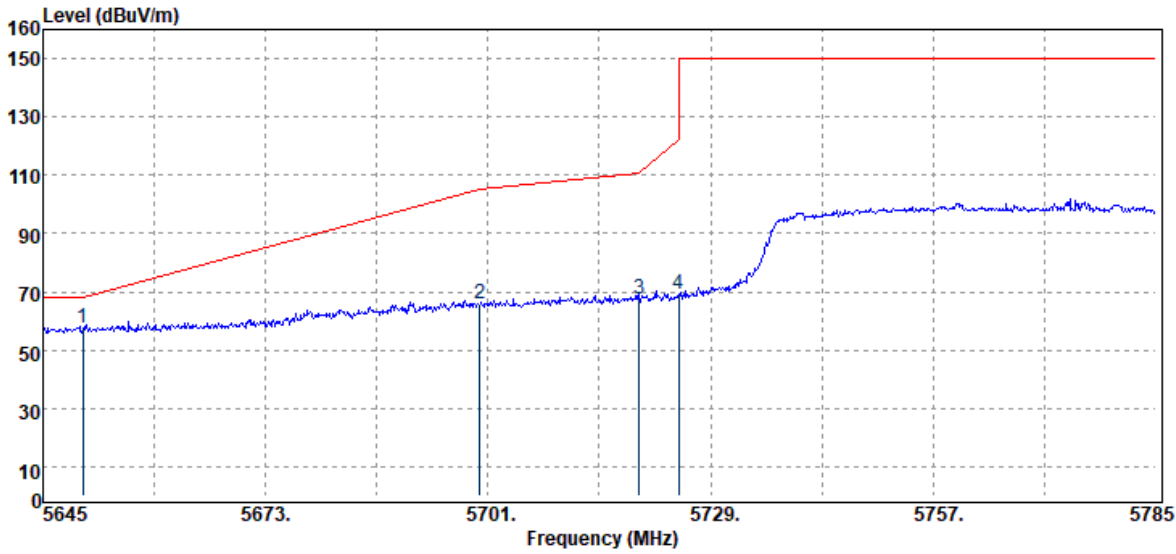
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	58.76	7.76	66.52	122.20	-55.68
5855.00	Peak	58.13	7.77	65.90	110.80	-44.90
5875.00	Peak	54.21	7.83	62.04	105.20	-43.16
5925.00	Peak	49.69	7.97	57.66	68.20	-10.54

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Report Number :ER/2019/B0067
Operation Mode :802.11ac80B4
Test Channel :5775 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-12-26
Temp./Humi. :23.5/64
Antenna Pol. :HORIZONTAL
Engineer :Thomas



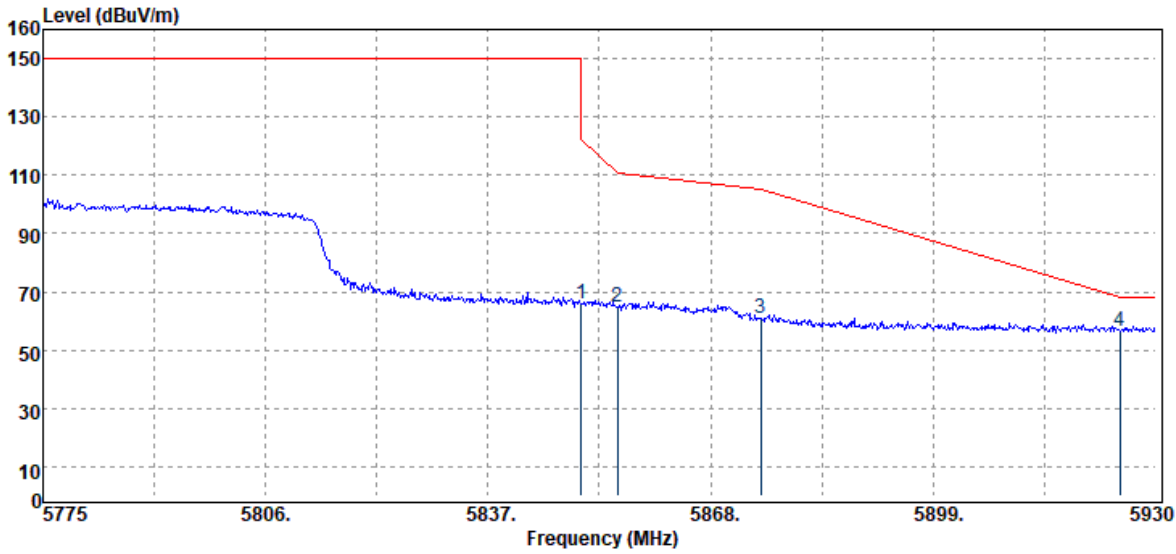
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5650.00	Peak	50.59	7.02	57.61	68.20	-10.59
5700.00	Peak	58.35	7.54	65.89	105.20	-39.31
5720.00	Peak	60.26	7.53	67.79	110.80	-43.01
5725.00	Peak	61.57	7.53	69.10	122.20	-53.10

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Report Number :ER/2019/B0067
 Operation Mode :802.11ac80B4
 Test Channel :5775 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Date :2019-12-26
 Temp./Humi. :23.5/64
 Antenna Pol. :HORIZONTAL
 Engineer :Thomas



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	57.97	7.76	65.73	122.20	-56.47
5855.00	Peak	57.21	7.77	64.98	110.80	-45.82
5875.00	Peak	53.32	7.83	61.15	105.20	-44.05
5925.00	Peak	48.66	7.97	56.63	68.20	-11.57

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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 control-signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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13 FREQUENCY STABILITY

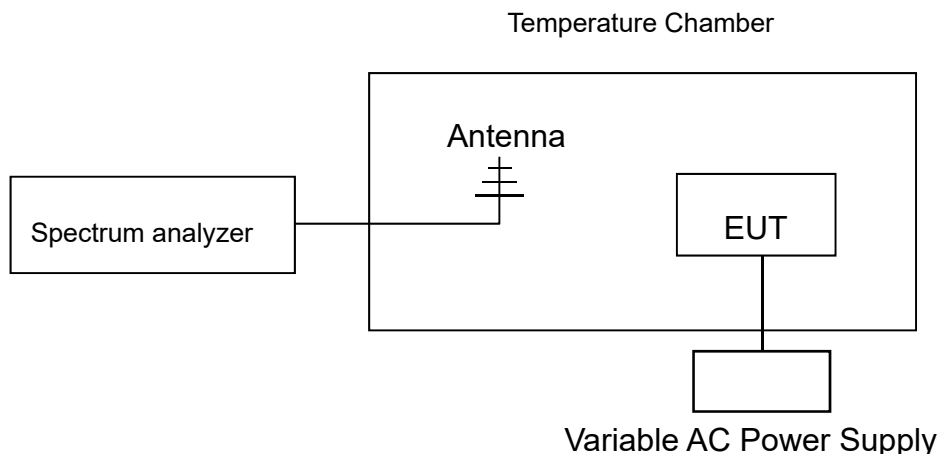
13.1 Standard Applicable

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					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/02/2019	05/01/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2020	01/04/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2020	01/04/2021
Power Meter	Anritsu	ML2496A	1804001	02/13/2019	02/12/2020
Power Sensor	Anritsu	MA2411B	1726104	02/13/2019	02/12/2020
Power Sensor	Anritsu	MA2411B	1726107	02/13/2019	02/12/2020

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13.5 Measurement Result

Start up

Operation Mode	802.11 a	Test Date	2020.02.07
Temperature	: 21.7°C	Test By	Tom
Humidity	: 56%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-40	5.5	36	5180	5,180.05600	-0.00001081
	3.7	36	5180	5,180.02200	-0.00000425
25	5	36	5180	5,180.04300	-0.00000830
85	5.5	36	5180	5,179.98300	0.00000328
	3.7	36	5180	5,179.91800	0.00001583

2 minutes

Operation Mode	802.11 a	Test Date	2020.02.07
Temperature	: 21.7°C	Test By	Tom
Humidity	: 56%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-40	5.5	36	5180	5,179.98300	0.00000328
	3.7	36	5180	5,179.96500	0.00000676
25	5	36	5180	5,180.08500	-0.00001641
85	5.5	36	5180	5,180.01000	-0.00000193
	3.7	36	5180	5,179.99400	0.00000116

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5 minutes

Operation Mode	802.11 a	Test Date	2020.02.07
Temperature	: 21.7°C	Test By	Tom
Humidity	: 56%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-40	5.5	36	5180	5,180.07700	-0.00001486
	3.7	36	5180	5,179.94100	0.00001139
25	5	36	5180	5,180.00500	-0.00000097
85	5.5	36	5180	5,180.07400	-0.00001429
	3.7	36	5180	5,179.92900	0.00001371

10 minutes

Operation Mode	802.11 a	Test Date	2020.02.07
Temperature	: 21.7°C	Test By	Tom
Humidity	: 56%		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-40	5.5	36	5180	5,180.10000	-0.00001931
	3.7	36	5180	5,180.08800	-0.00001699
25	5	36	5180	5,180.01000	-0.00000193
85	5.5	36	5180	5,180.02600	-0.00000502
	3.7	36	5180	5,179.93800	0.00001197

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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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