

Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac80 / Band 3

Test Date :2021-07-29

Test Frequency :5610 MHz

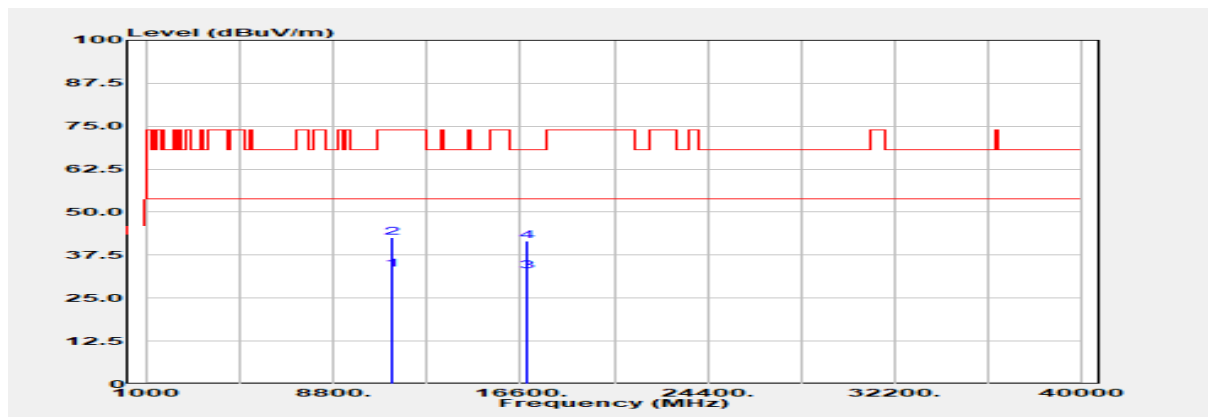
Temp./Humi. :21.4/64

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



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
11220.000	Average	25.65	7.62	33.27	54.00	-20.73
11220.000	Peak	35.03	7.62	42.65	74.00	-31.35
16830.000	Average	24.85	7.91	32.76	54.00	-21.24
16830.000	Peak	33.74	7.91	41.65	68.20	-26.55

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac80 / Band 3

Test Date :2021-07-29

Test Frequency :5610 MHz

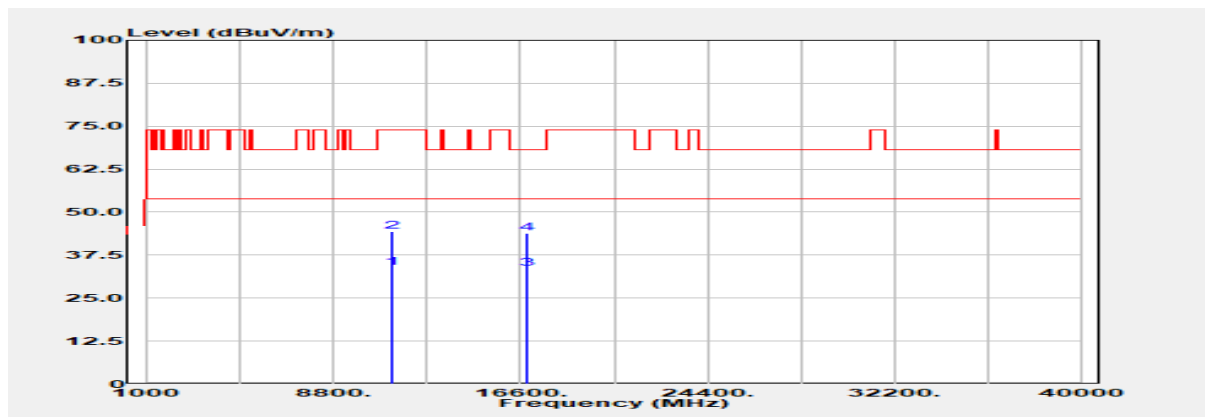
Temp./Humi. :21.4/64

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



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
11220.000	Average	26.13	7.62	33.74	54.00	-20.26
11220.000	Peak	36.77	7.62	44.39	74.00	-29.61
16830.000	Average	25.78	7.91	33.69	54.00	-20.31
16830.000	Peak	35.99	7.91	43.89	68.20	-24.31

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac80 / Band 4

Test Date :2021-07-29

Test Frequency :5775 MHz

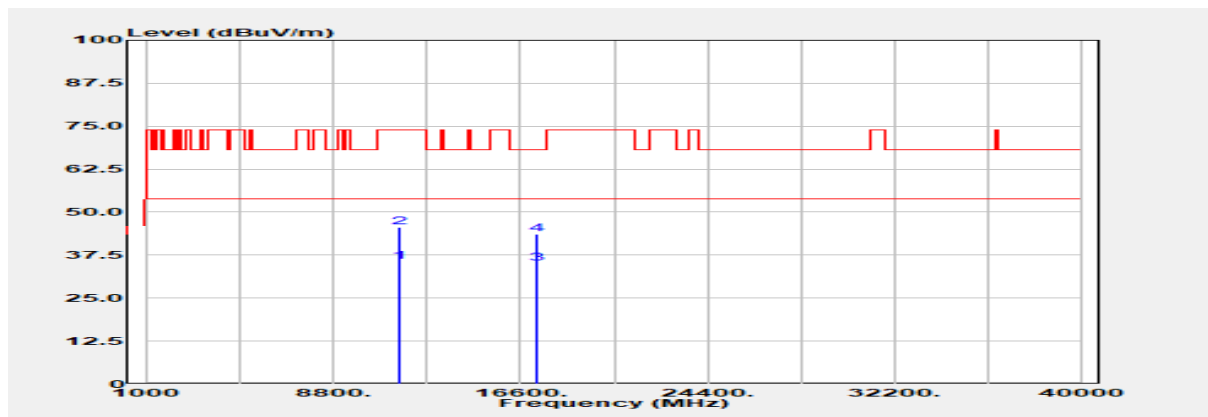
Temp./Humi. :21.4/64

Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.000	Average	26.63	8.91	35.54	54.00	-18.46
11550.000	Peak	36.69	8.91	45.60	74.00	-28.40
17325.000	Average	25.81	9.35	35.16	54.00	-18.84
17325.000	Peak	34.33	9.35	43.68	68.20	-24.52

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac80 / Band 4

Test Date :2021-07-29

Test Frequency :5775 MHz

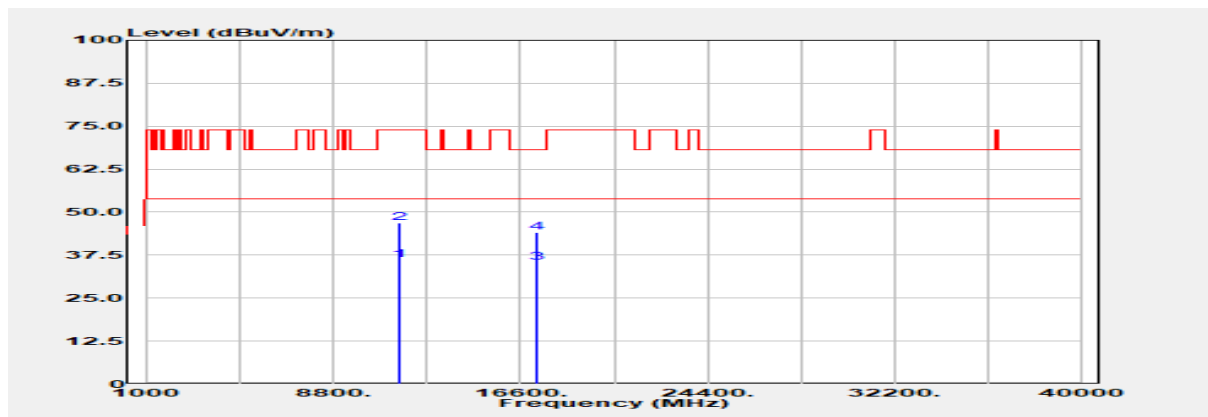
Temp./Humi. :21.4/64

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.000	Average	27.08	8.91	35.99	54.00	-18.01
11550.000	Peak	38.00	8.91	46.90	74.00	-27.10
17325.000	Average	25.94	9.35	35.29	54.00	-18.71
17325.000	Peak	34.70	9.35	44.05	68.20	-24.15

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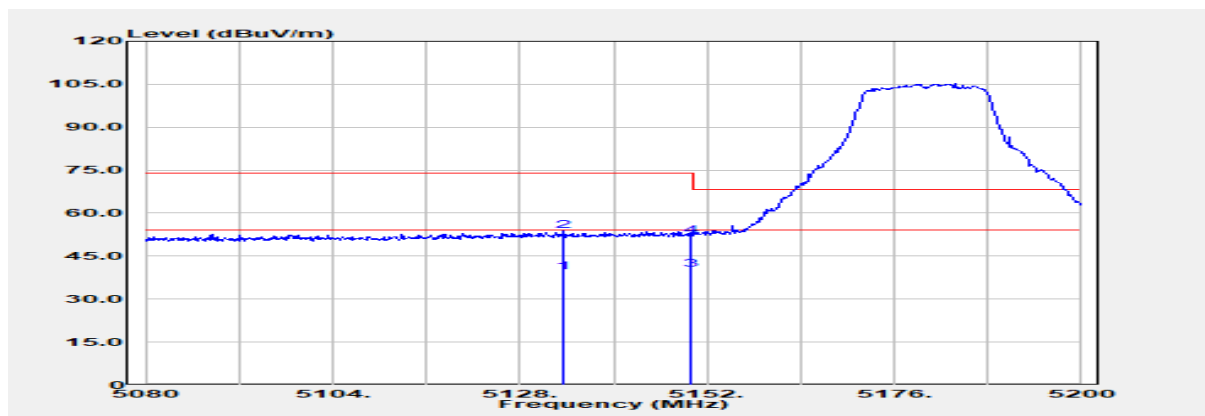
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11.7.2 Band edge falling to restricted band

Report Number :E2/2021/70042
Operation Mode :802.11a / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-27
Temp./Humi. :21.9/64
Antenna Pol. :Vertical
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5133.640	Average	41.72	-2.32	39.40	54.00	-14.60
5133.640	Peak	56.14	-2.32	53.82	74.00	-20.18
5150.000	Average	42.69	-2.53	40.16	54.00	-13.84
5150.000	Peak	54.64	-2.53	52.11	74.00	-21.89

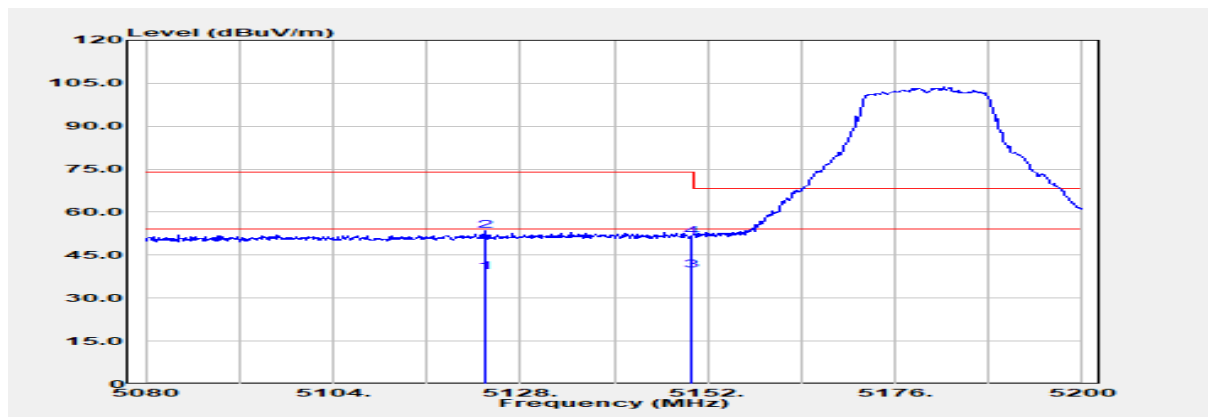
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Report Number :E2/2021/70042
Operation Mode :802.11a / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-27
Temp./Humi. :21.9/64
Antenna Pol. :Horizontal
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5123.560	Average	41.26	-2.23	39.03	54.00	-14.97
5123.560	Peak	55.63	-2.23	53.40	74.00	-20.60
5150.000	Average	42.14	-2.53	39.61	54.00	-14.39
5150.000	Peak	53.91	-2.53	51.38	74.00	-22.62

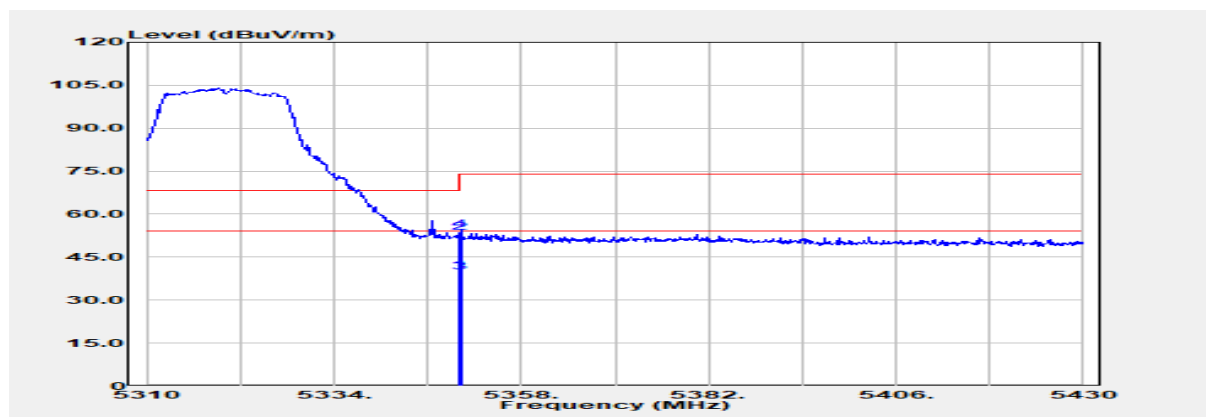
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Report Number :E2/2021/70042
 Operation Mode :802.11a / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-27
 Temp./Humi. :21.9/64
 Antenna Pol. :Vertical
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	42.62	-2.66	39.95	54.00	-14.05
5350.000	Peak	56.29	-2.66	53.63	74.00	-20.37
5350.200	Average	42.49	-2.67	39.81	54.00	-14.19
5350.200	Peak	57.02	-2.67	54.35	74.00	-19.65

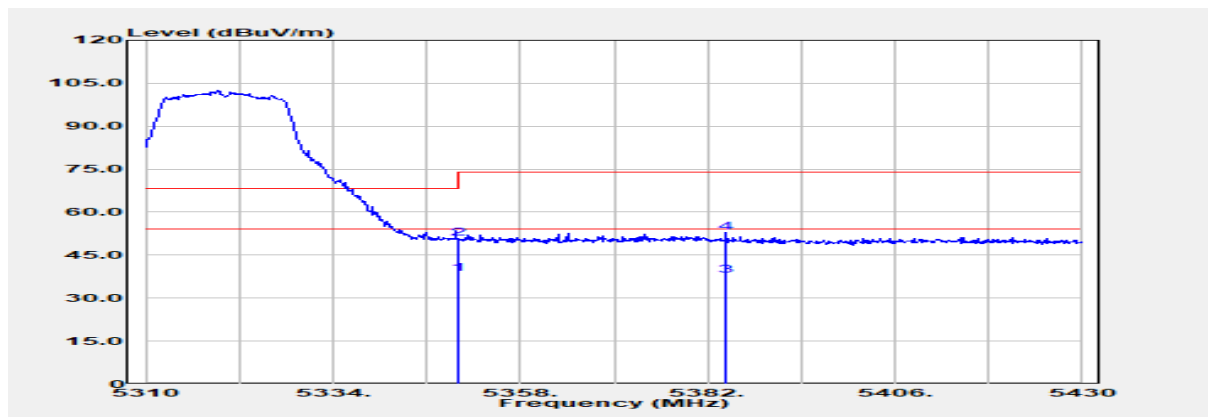
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Report Number :E2/2021/70042
 Operation Mode :802.11a / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-27
 Temp./Humi. :21.9/64
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	41.13	-2.66	38.47	54.00	-15.53
5350.000	Peak	53.40	-2.66	50.74	74.00	-23.26
5384.280	Average	40.24	-2.42	37.81	54.00	-16.19
5384.280	Peak	55.50	-2.42	53.08	74.00	-20.92

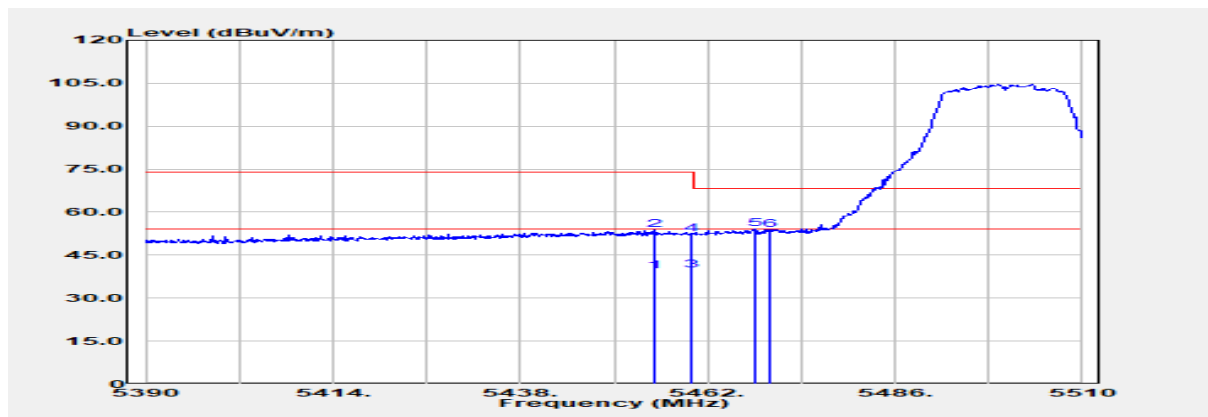
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Report Number :E2/2021/70042
 Operation Mode :802.11a / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-27
 Temp./Humi. :21.9/64
 Antenna Pol. :Vertical
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5455.280	Average	41.84	-2.29	39.55	54.00	-14.45
5455.280	Peak	56.06	-2.29	53.77	74.00	-20.23
5460.000	Average	41.92	-2.18	39.74	54.00	-14.26
5460.000	Peak	54.58	-2.18	52.40	74.00	-21.60
5468.000	Peak	56.35	-2.31	54.04	68.20	-14.16
5470.000	Peak	56.09	-2.35	53.74	68.20	-14.46

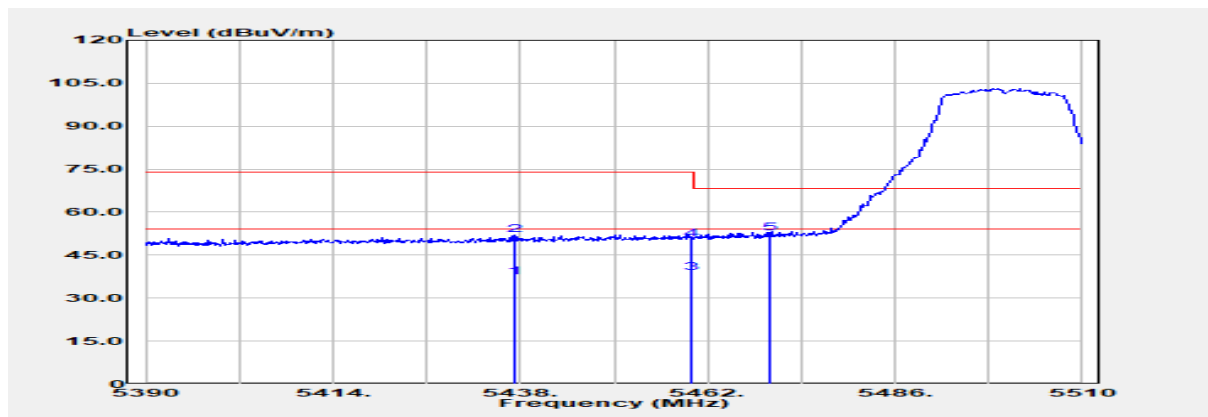
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Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-27
Temp./Humi. :21.9/64
Antenna Pol. :Horizontal
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5437.400	Average	39.83	-2.42	37.41	54.00	-16.59
5437.400	Peak	54.56	-2.42	52.14	74.00	-21.86
5460.000	Average	40.95	-2.18	38.77	54.00	-15.23
5460.000	Peak	52.69	-2.18	50.51	74.00	-23.49
5470.000	Peak	54.83	-2.35	52.49	68.20	-15.71

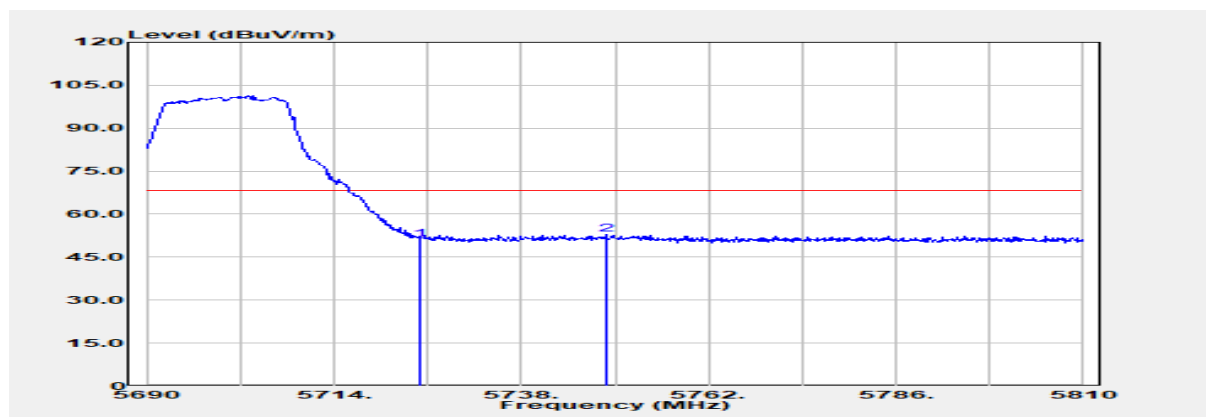
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Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-27
Temp./Humi. :21.9/64
Antenna Pol. :Vertical
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	53.09	-1.98	51.11	68.20	-17.09
5748.920	Peak	54.24	-1.18	53.05	68.20	-15.15

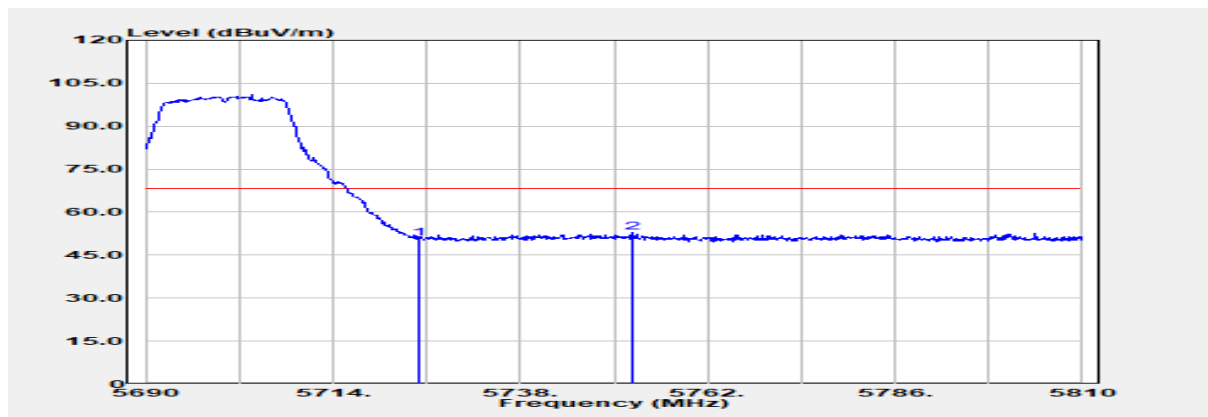
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 Operation Mode :802.11a / Band 3
 Test Frequency :5700 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-27
 Temp./Humi. :21.9/64
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	52.71	-1.98	50.74	68.20	-17.46
5752.280	Peak	54.36	-1.29	53.07	68.20	-15.13

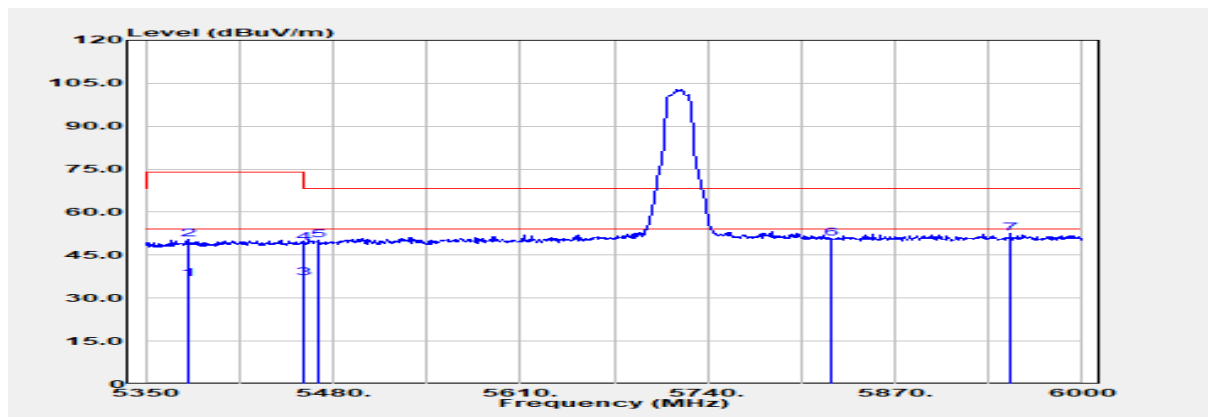
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Report Number :E2/2021/70042
Operation Mode :802.11a / Band 3-4
Test Frequency :5720 MHz
Test Mode :BE CH MID
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-28
Temp./Humi. :21.7/62
Antenna Pol. :Vertical
Engineer :Jack Tseng



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
5379.250	Average	39.00	-2.28	36.71	54.00	-17.29
5379.250	Peak	52.84	-2.28	50.56	74.00	-23.44
5460.000	Average	39.11	-2.18	36.92	54.00	-17.08
5460.000	Peak	51.52	-2.18	49.34	74.00	-24.66
5470.000	Peak	52.47	-2.35	50.12	68.20	-18.08
5825.000	Peak	52.49	-1.60	50.90	68.20	-17.30
5949.950	Peak	53.74	-1.16	52.58	68.20	-15.62

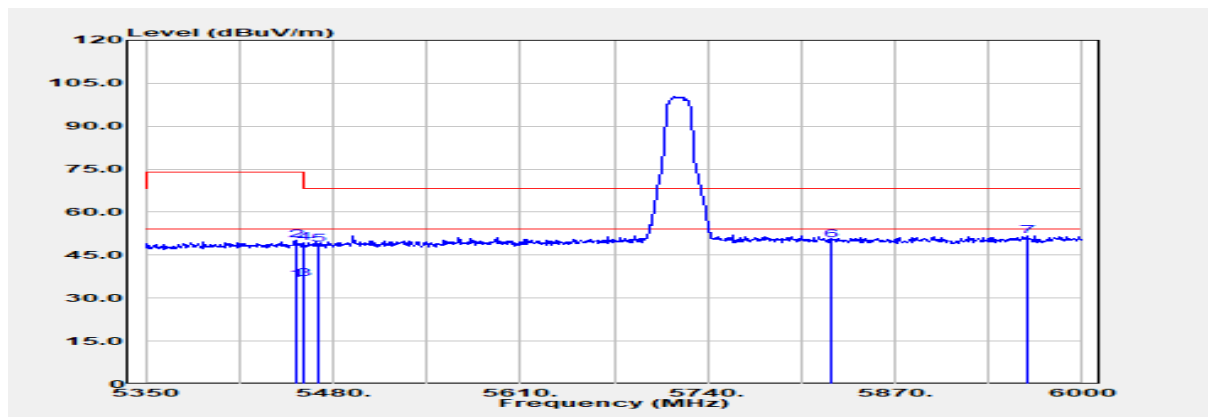
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Report Number :E2/2021/70042
Operation Mode :802.11a / Band 3-4
Test Frequency :5720 MHz
Test Mode :BE CH MID
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-28
Temp./Humi. :21.7/62
Antenna Pol. :Horizontal
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5454.000	Average	38.85	-2.32	36.53	54.00	-17.47
5454.000	Peak	52.42	-2.32	50.10	74.00	-23.90
5460.000	Average	38.88	-2.18	36.70	54.00	-17.30
5460.000	Peak	51.37	-2.18	49.19	74.00	-24.81
5470.000	Peak	51.16	-2.35	48.81	68.20	-19.39
5825.000	Peak	51.79	-1.60	50.19	68.20	-18.01
5961.650	Peak	52.48	-0.79	51.68	68.20	-16.52

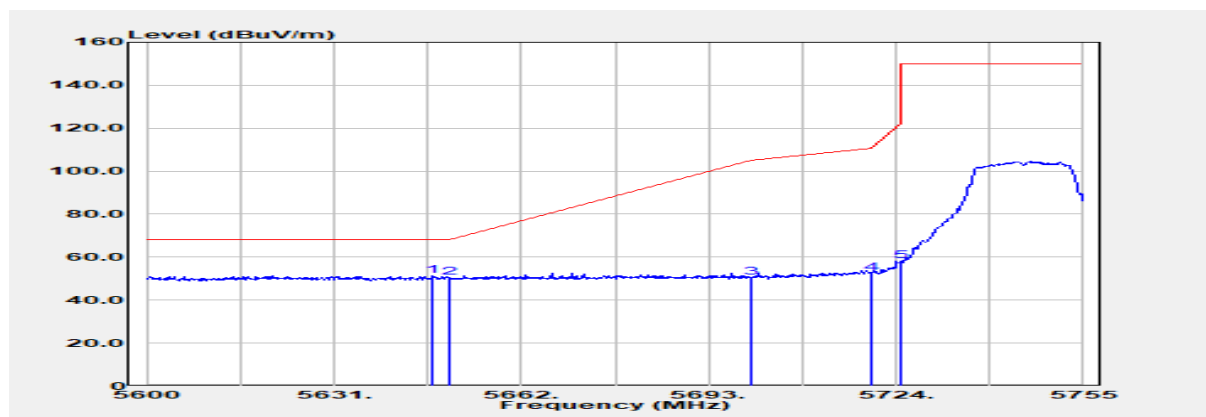
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Report Number :E2/2021/70042
 Operation Mode :802.11a / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-28
 Temp./Humi. :21.9/64
 Antenna Pol. :Vertical
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5647.275	Peak	53.70	-2.23	51.47	68.20	-16.73
5650.000	Peak	52.64	-2.20	50.44	68.20	-17.76
5700.000	Peak	52.60	-2.17	50.43	105.20	-54.77
5720.000	Peak	54.14	-1.70	52.45	110.80	-58.35
5725.000	Peak	59.93	-1.98	57.95	122.20	-64.25

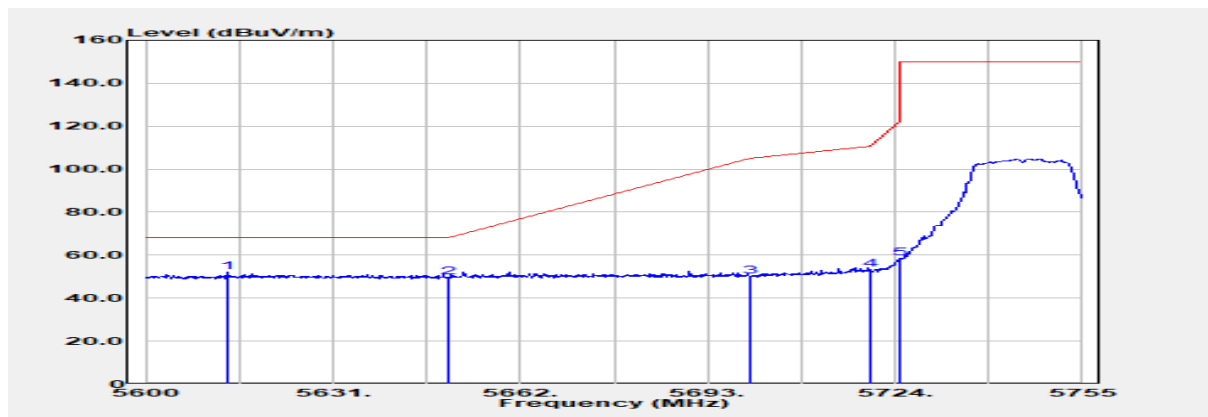
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Report Number :E2/2021/70042
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-28
Temp./Humi. :21.9/64
Antenna Pol. :Horizontal
Engineer :Andy Wang



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
5613.485	Peak	54.27	-2.29	51.98	68.20	-16.22
5650.000	Peak	51.85	-2.20	49.65	68.20	-18.55
5700.000	Peak	52.19	-2.17	50.02	105.20	-55.18
5720.000	Peak	55.07	-1.70	53.37	110.80	-57.43
5725.000	Peak	60.50	-1.98	58.53	122.20	-63.67

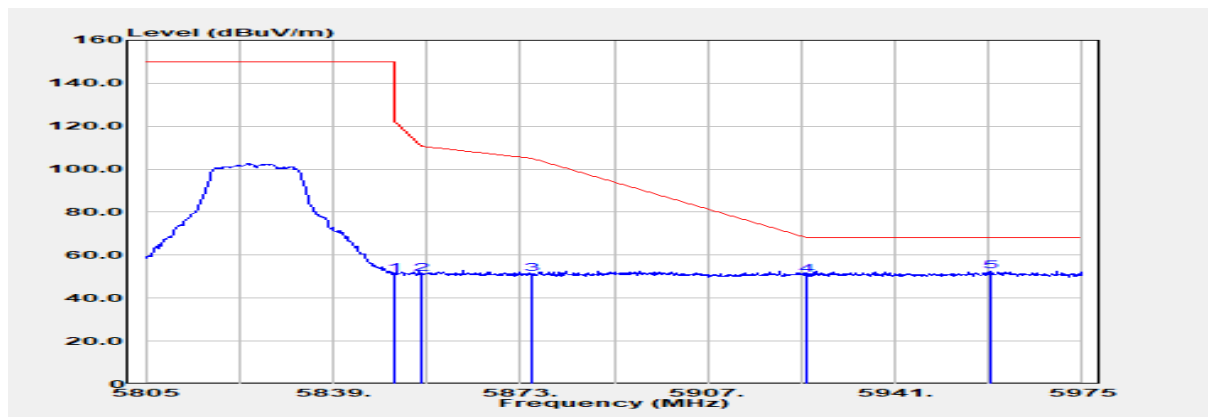
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Report Number :E2/2021/70042
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-28
Temp./Humi. :21.9/64
Antenna Pol. :Vertical
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	52.73	-1.57	51.16	122.20	-71.04
5855.000	Peak	52.73	-1.42	51.31	110.80	-59.49
5875.000	Peak	52.87	-1.42	51.44	105.20	-53.76
5925.000	Peak	52.04	-0.99	51.05	68.20	-17.15
5958.340	Peak	53.29	-0.77	52.51	68.20	-15.69

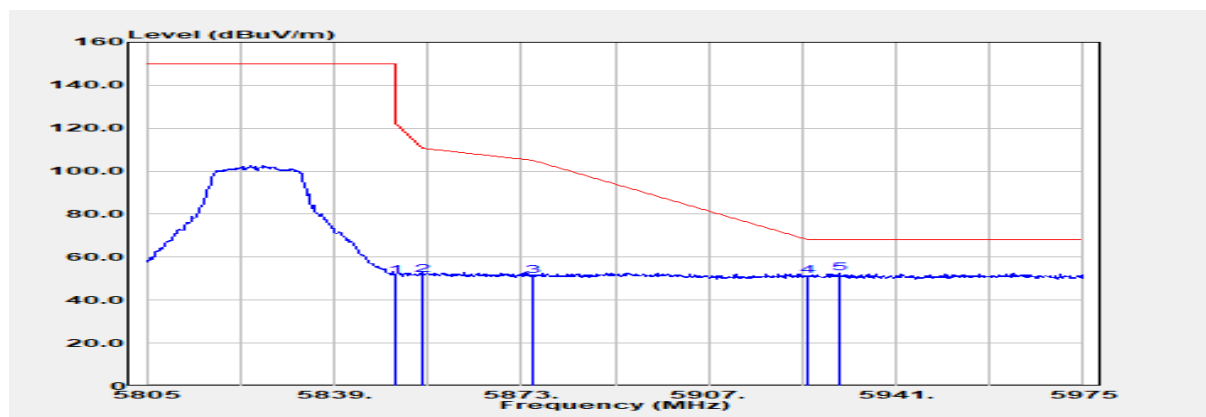
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Report Number :E2/2021/70042
 Operation Mode :802.11a / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-28
 Temp./Humi. :21.9/64
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	52.98	-1.57	51.41	122.20	-70.79
5855.000	Peak	53.32	-1.42	51.90	110.80	-58.90
5875.000	Peak	52.70	-1.42	51.28	105.20	-53.92
5925.000	Peak	52.14	-0.99	51.15	68.20	-17.05
5930.630	Peak	53.55	-0.91	52.65	68.20	-15.55

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac20 / Band 1

Test Date :2021-07-28

Test Frequency :5180 MHz

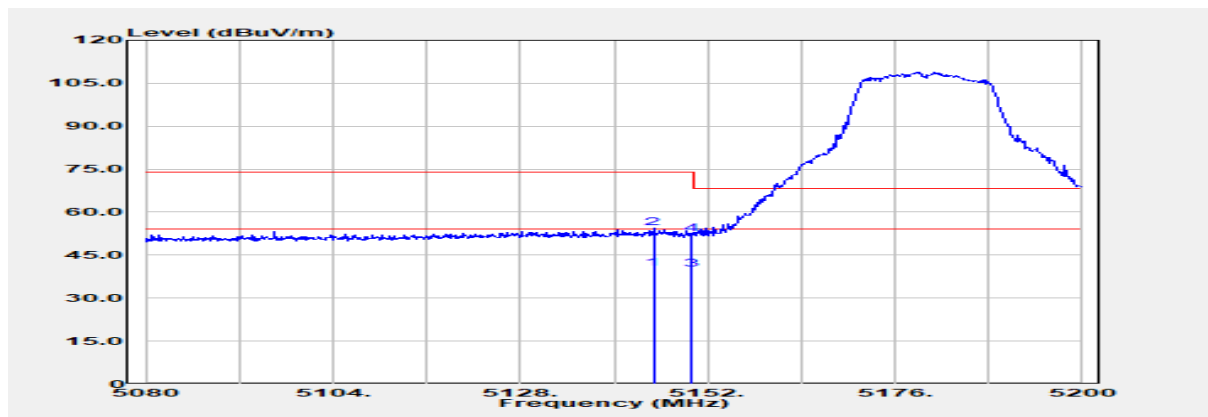
Temp./Humi. :21.7/62

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5145.040	Average	42.68	-2.45	40.22	54.00	-13.78
5145.040	Peak	56.78	-2.45	54.33	74.00	-19.67
5150.000	Average	42.39	-2.53	39.86	54.00	-14.14
5150.000	Peak	54.89	-2.53	52.37	74.00	-21.63

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac20 / Band 1

Test Date :2021-07-28

Test Frequency :5180 MHz

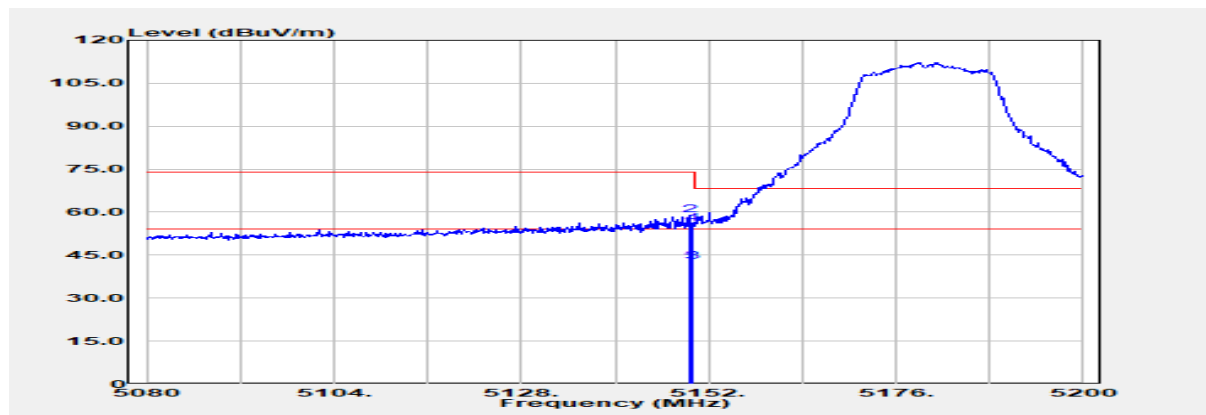
Temp./Humi. :21.7/62

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Jack Tseng



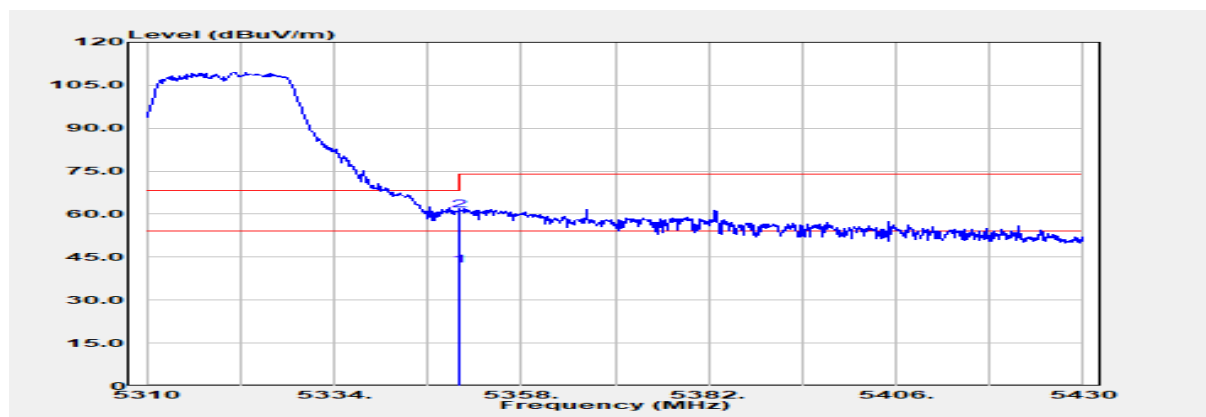
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.480	Average	44.95	-2.52	42.43	54.00	-11.57
5149.480	Peak	61.46	-2.52	58.94	74.00	-15.06
5150.000	Average	45.12	-2.53	42.59	54.00	-11.41
5150.000	Peak	58.45	-2.53	55.93	74.00	-18.07

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Report Number	:E2/2021/70042	Test Site	:SAC D
Operation Mode	:802.11ac20 / Band 2	Test Date	:2021-07-28
Test Frequency	:5320 MHz	Temp./Humi.	:21.7/62
Test Mode	:BE CH HIGH	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Jack Tseng



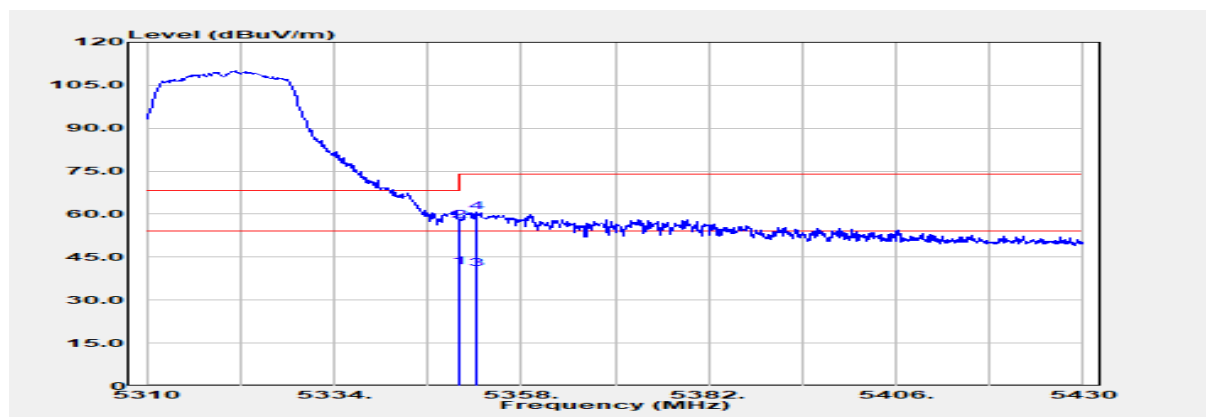
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	44.92	-2.66	42.25	54.00	-11.75
5350.000	Peak	64.05	-2.66	61.39	74.00	-12.61

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Report Number	:E2/2021/70042	Test Site	:SAC D
Operation Mode	:802.11ac20 / Band 2	Test Date	:2021-07-28
Test Frequency	:5320 MHz	Temp./Humi.	:21.7/62
Test Mode	:BE CH HIGH	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	44.31	-2.66	41.65	54.00	-12.35
5350.000	Peak	60.46	-2.66	57.80	74.00	-16.20
5352.360	Average	43.55	-2.77	40.78	54.00	-13.22
5352.360	Peak	63.49	-2.77	60.72	74.00	-13.28

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac20 / Band 3

Test Date :2021-07-28

Test Frequency :5500 MHz

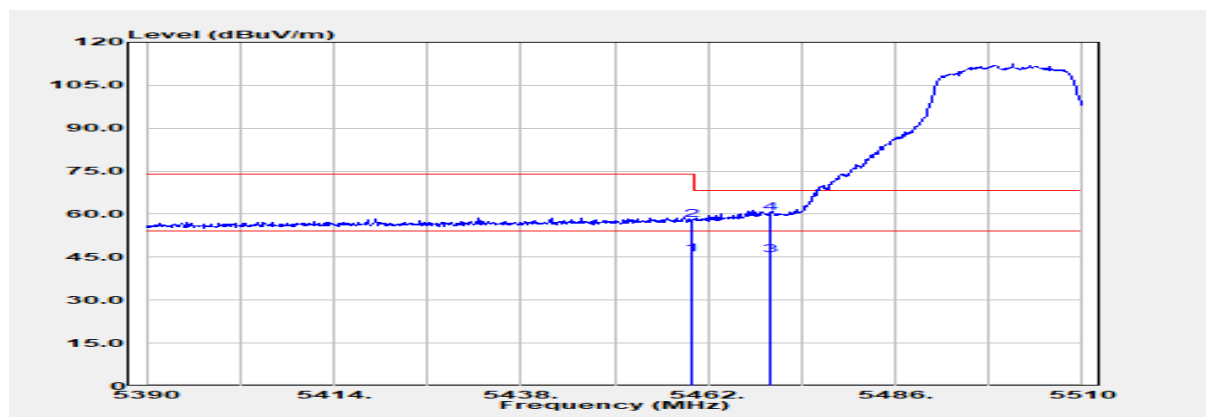
Temp./Humi. :21.7/62

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.000	Average	48.06	-2.18	45.88	54.00	-8.12
5460.000	Peak	60.08	-2.18	57.90	74.00	-16.10
5470.000	Average	48.13	-2.35	45.78	54.00	-8.22
5470.000	Peak	62.77	-2.35	60.42	68.20	-7.78

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac20 / Band 3

Test Date :2021-07-28

Test Frequency :5500 MHz

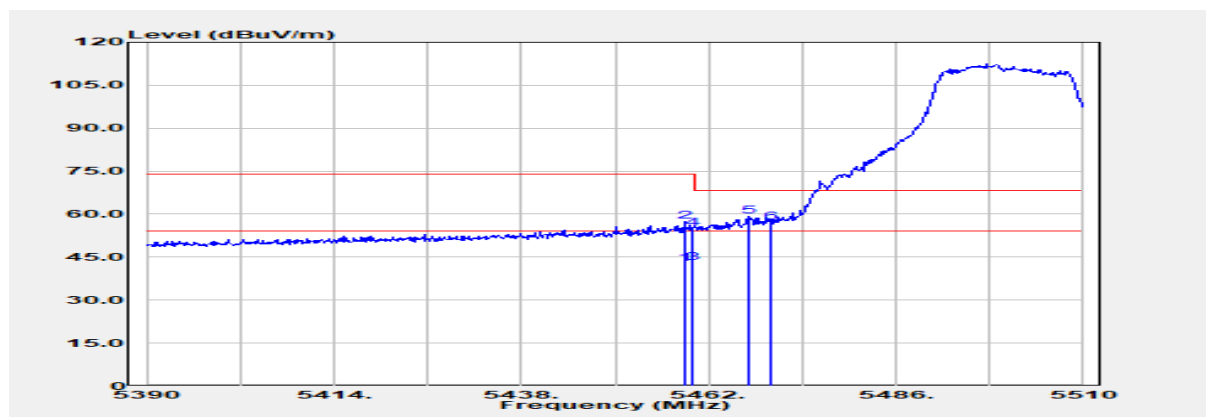
Temp./Humi. :21.7/62

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Jack Tseng



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
5458.880	Average	44.97	-2.21	42.76	54.00	-11.24
5458.880	Peak	59.55	-2.21	57.34	74.00	-16.66
5460.000	Average	45.12	-2.18	42.94	54.00	-11.06
5460.000	Peak	57.33	-2.18	55.15	74.00	-18.85
5467.280	Peak	61.47	-2.30	59.17	68.20	-9.03
5470.000	Peak	59.64	-2.35	57.29	68.20	-10.91

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac20 / Band 3

Test Date :2021-07-28

Test Frequency :5700 MHz

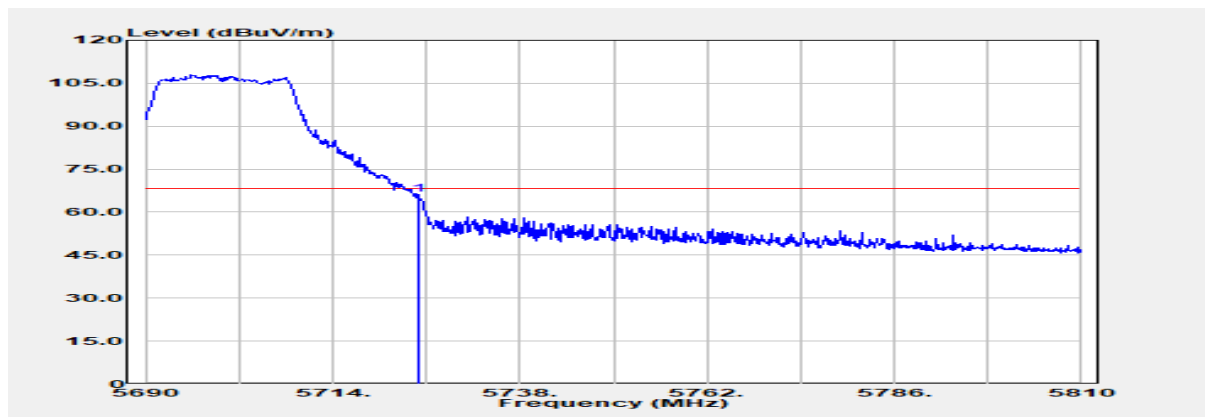
Temp./Humi. :21.7/62

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	68.10	-1.98	66.13	68.20	-2.07

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac20 / Band 3

Test Date :2021-07-28

Test Frequency :5700 MHz

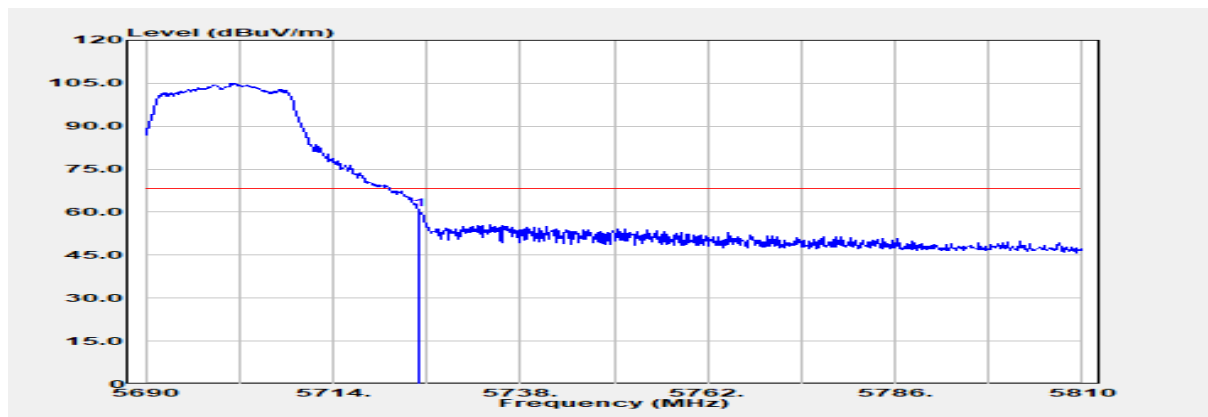
Temp./Humi. :21.7/62

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	62.90	-1.98	60.92	68.20	-7.28

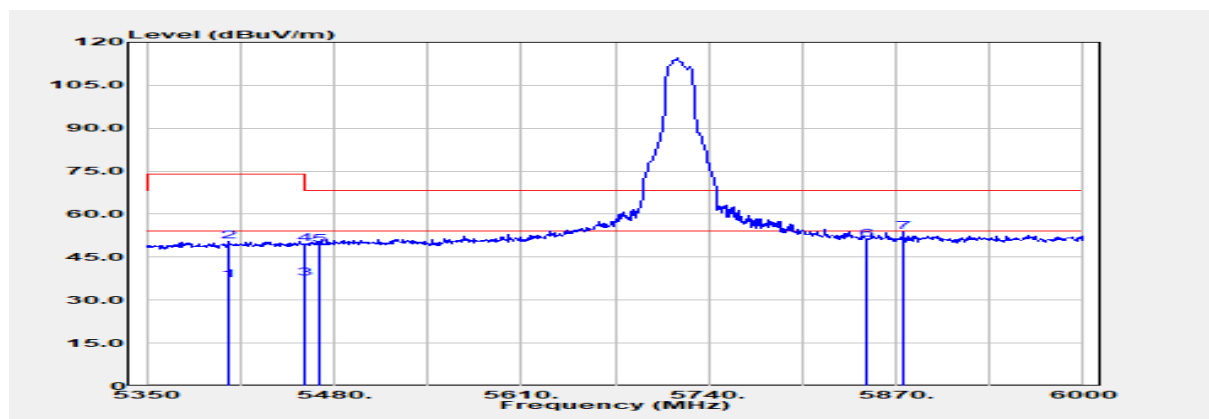
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Report Number :E2/2021/70042
Operation Mode :802.11ac20 / Band 3-4
Test Frequency :5720 MHz
Test Mode :BE CH MID
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-28
Temp./Humi. :21.7/62
Antenna Pol. :Vertical
Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5407.200	Average	39.50	-2.48	37.02	54.00	-16.98
5407.200	Peak	52.98	-2.48	50.49	74.00	-23.51
5460.000	Average	39.78	-2.18	37.59	54.00	-16.41
5460.000	Peak	51.76	-2.18	49.58	74.00	-24.42
5470.000	Peak	51.70	-2.35	49.35	68.20	-18.85
5850.000	Peak	52.63	-1.57	51.06	68.20	-17.14
5875.850	Peak	55.15	-1.42	53.73	68.20	-14.47

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac20 / Band 3-4

Test Date :2021-07-28

Test Frequency :5720 MHz

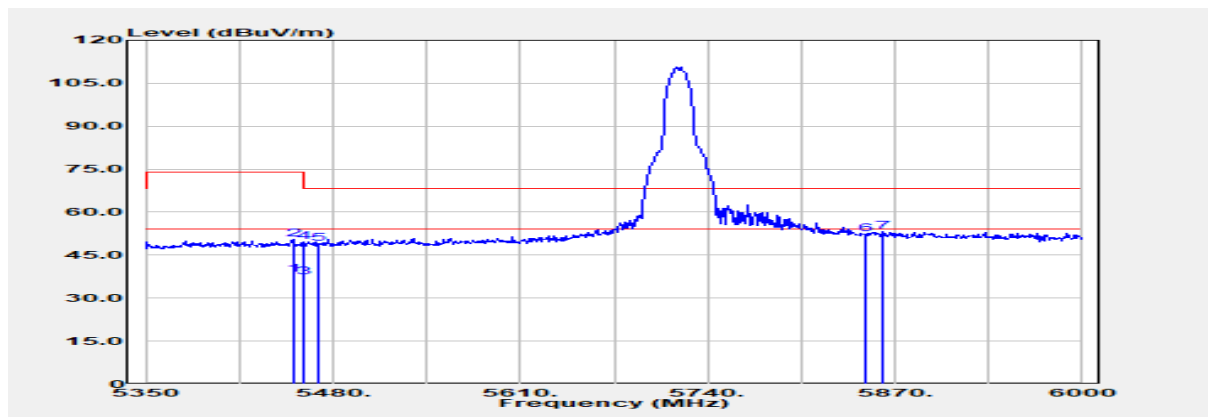
Temp./Humi. :21.7/62

Test Mode :BE CH MID

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Jack Tseng



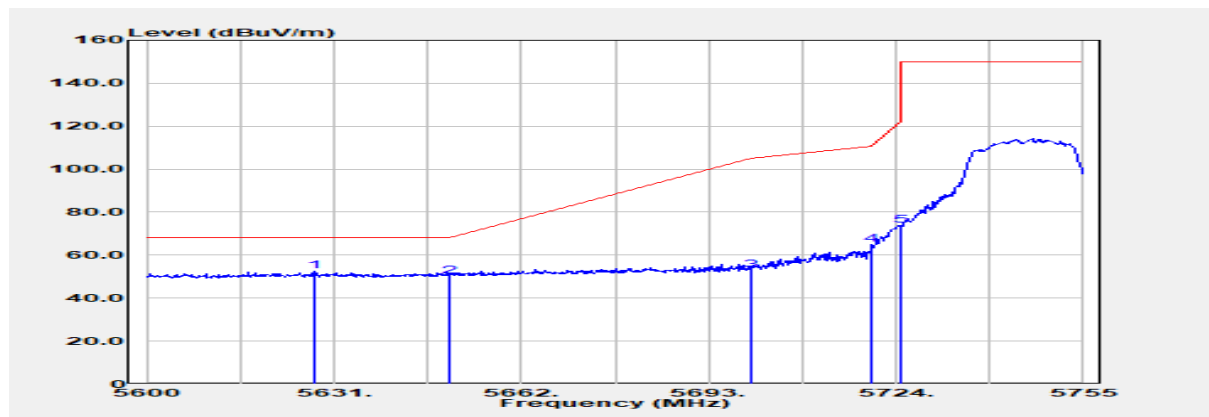
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5452.700	Average	40.54	-2.35	38.19	54.00	-15.81
5452.700	Peak	52.84	-2.35	50.48	74.00	-23.52
5460.000	Average	39.58	-2.18	37.40	54.00	-16.60
5460.000	Peak	51.74	-2.18	49.56	74.00	-24.44
5470.000	Peak	51.45	-2.35	49.11	68.20	-19.09
5850.000	Peak	54.04	-1.57	52.47	68.20	-15.73
5861.550	Peak	54.41	-1.29	53.12	68.20	-15.08

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Report Number	:E2/2021/70042	Test Site	:SAC D
Operation Mode	:802.11ac20 / Band 4	Test Date	:2021-07-28
Test Frequency	:5745 MHz	Temp./Humi.	:21.7/62
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Jack Tseng



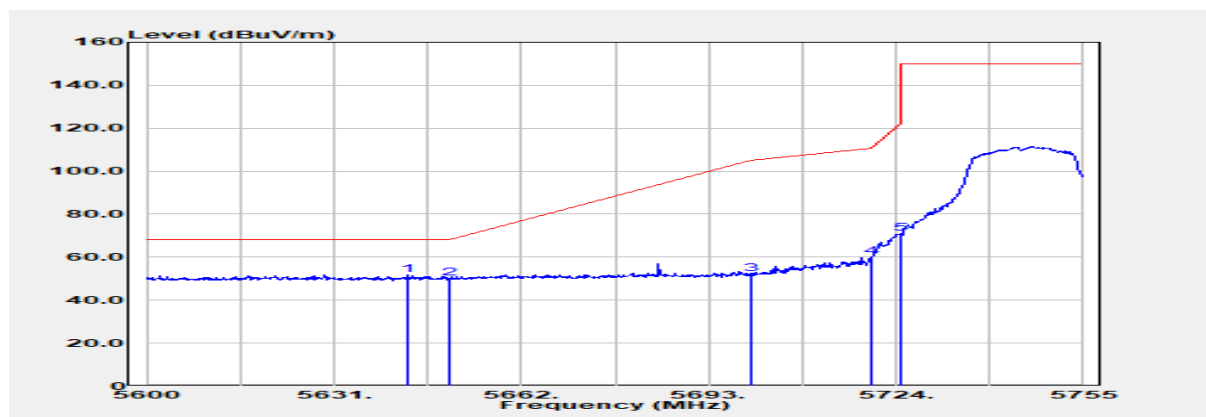
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5627.590	Peak	54.78	-2.08	52.70	68.20	-15.50
5650.000	Peak	52.33	-2.20	50.13	68.20	-18.07
5700.000	Peak	55.02	-2.17	52.85	105.20	-52.35
5720.000	Peak	66.77	-1.70	65.07	110.80	-45.73
5725.000	Peak	75.78	-1.98	73.80	122.20	-48.40

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Report Number	:E2/2021/70042	Test Site	:SAC D
Operation Mode	:802.11ac20 / Band 4	Test Date	:2021-07-28
Test Frequency	:5745 MHz	Temp./Humi.	:21.7/62
Test Mode	:BE CH LOW	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Jack Tseng



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
5643.245	Peak	54.02	-2.28	51.75	68.20	-16.45
5650.000	Peak	52.43	-2.20	50.23	68.20	-17.97
5700.000	Peak	54.16	-2.17	52.00	105.20	-53.20
5720.000	Peak	61.71	-1.70	60.02	110.80	-50.78
5725.000	Peak	73.10	-1.98	71.13	122.20	-51.07

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac20 / Band 4

Test Date :2021-07-28

Test Frequency :5825 MHz

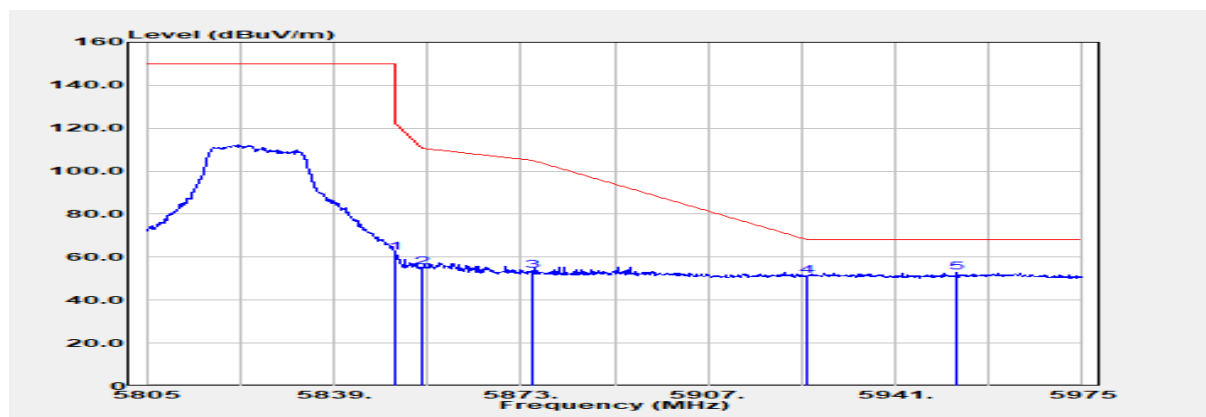
Temp./Humi. :21.7/62

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	63.81	-1.57	62.24	122.20	-59.96
5855.000	Peak	56.82	-1.42	55.40	110.80	-55.40
5875.000	Peak	55.31	-1.42	53.89	105.20	-51.31
5925.000	Peak	52.18	-0.99	51.19	68.20	-17.01
5952.220	Peak	53.97	-1.06	52.91	68.20	-15.29

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac20 / Band 4

Test Date :2021-07-28

Test Frequency :5825 MHz

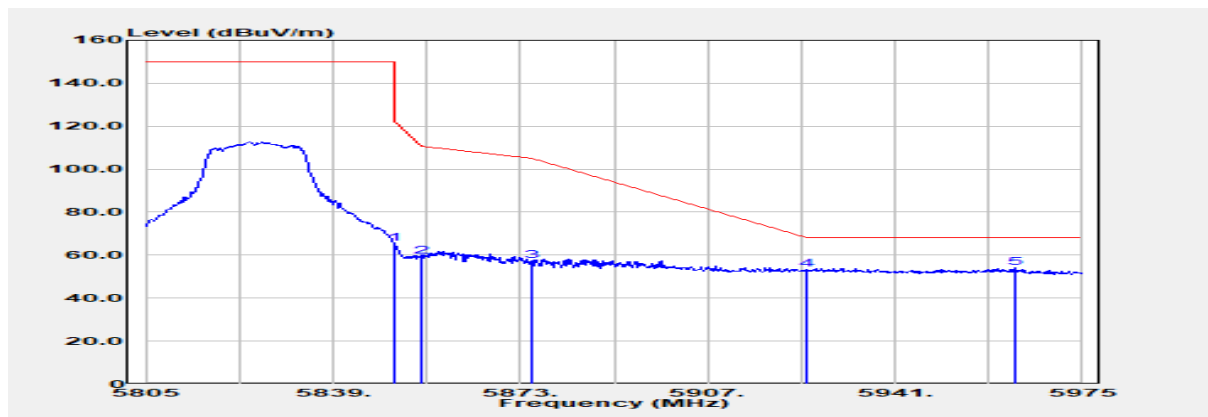
Temp./Humi. :21.7/62

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	66.76	-1.57	65.19	122.20	-57.01
5855.000	Peak	60.70	-1.42	59.28	110.80	-51.52
5875.000	Peak	58.59	-1.42	57.17	105.20	-48.03
5925.000	Peak	54.46	-0.99	53.47	68.20	-14.73
5962.930	Peak	55.06	-0.87	54.19	68.20	-14.01

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac40 / Band 1

Test Date :2021-07-28

Test Frequency :5190 MHz

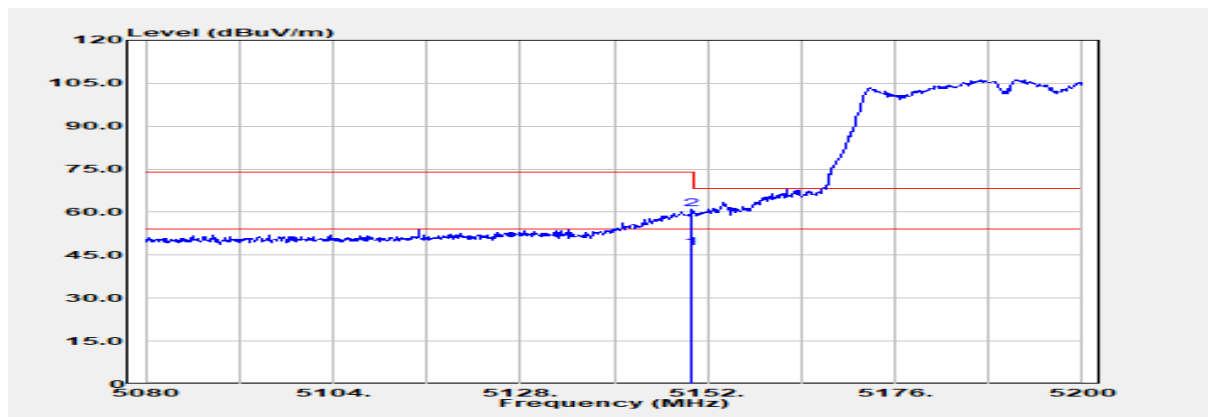
Temp./Humi. :21.7/62

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.000	Average	50.08	-2.53	47.55	54.00	-6.45
5150.000	Peak	63.61	-2.53	61.08	74.00	-12.92

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac40 / Band 1

Test Date :2021-07-28

Test Frequency :5190 MHz

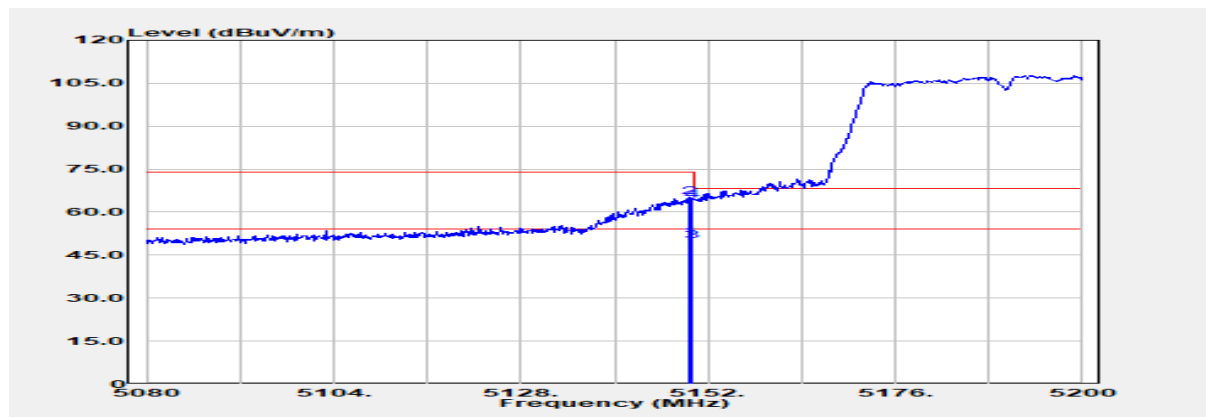
Temp./Humi. :21.7/62

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.720	Average	53.78	-2.52	51.26	54.00	-2.74
5149.720	Peak	67.80	-2.52	65.27	74.00	-8.73
5150.000	Average	52.33	-2.53	49.80	54.00	-4.20
5150.000	Peak	66.53	-2.53	64.00	74.00	-10.00

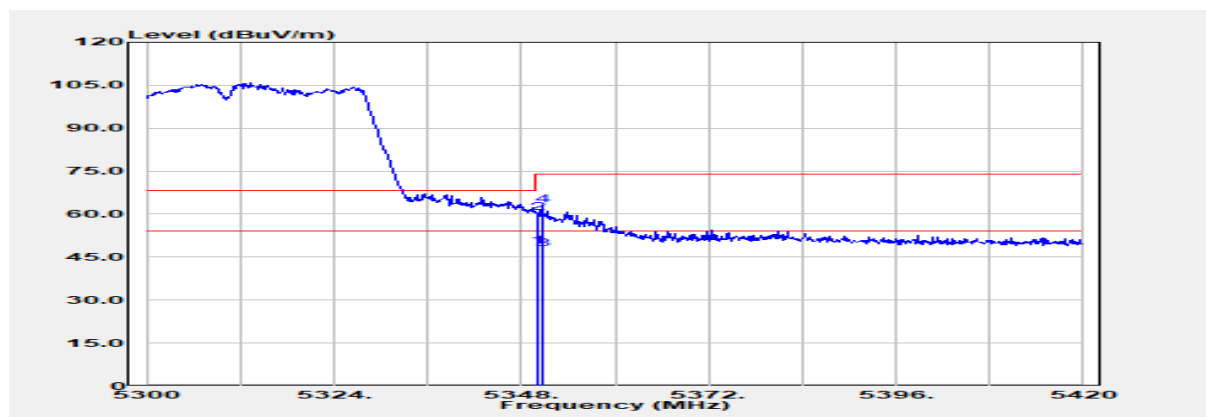
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Report Number :E2/2021/70042
 Operation Mode :802.11ac40/ Band2
 Test Frequency :5310 MHz
 Test Mode :BE CH HIGH
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-28
 Temp./Humi. :21.7/62
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	51.41	-2.66	48.75	54.00	-5.25
5350.000	Peak	63.15	-2.66	60.49	74.00	-13.51
5350.640	Average	50.66	-2.69	47.96	54.00	-6.04
5350.640	Peak	65.95	-2.69	63.25	74.00	-10.75

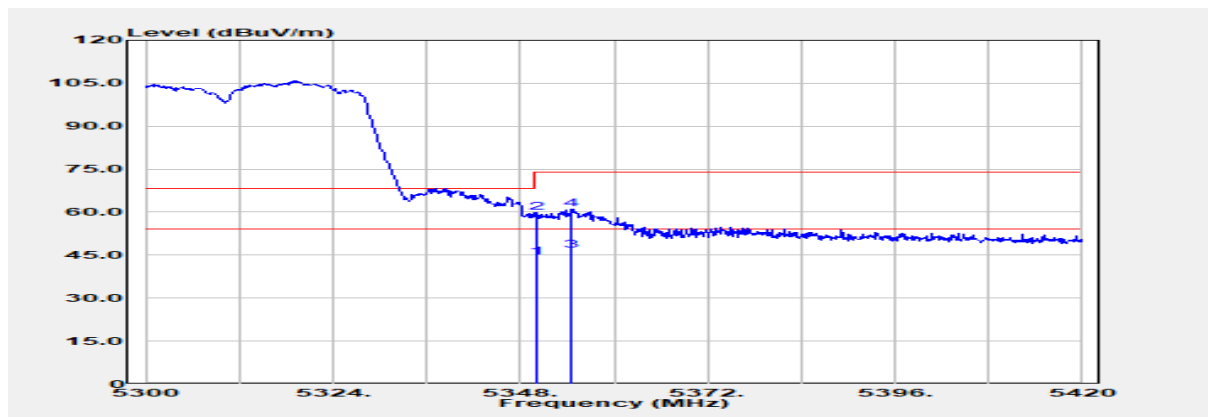
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Report Number :E2/2021/70042
Operation Mode :802.11ac40/ Band2
Test Frequency :5310 MHz
Test Mode :BE CH HIGH
EUT Pol :H Plane

Test Site :SAC D
Test Date :2021-07-28
Temp./Humi. :21.7/62
Antenna Pol. :Horizontal
Engineer :Jack Tseng



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
5350.000	Average	46.86	-2.66	44.19	54.00	-9.81
5350.000	Peak	62.58	-2.66	59.92	74.00	-14.08
5354.480	Average	49.61	-2.86	46.76	54.00	-7.24
5354.480	Peak	63.93	-2.86	61.07	74.00	-12.93

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac40 / Band 3

Test Date :2021-07-28

Test Frequency :5510 MHz

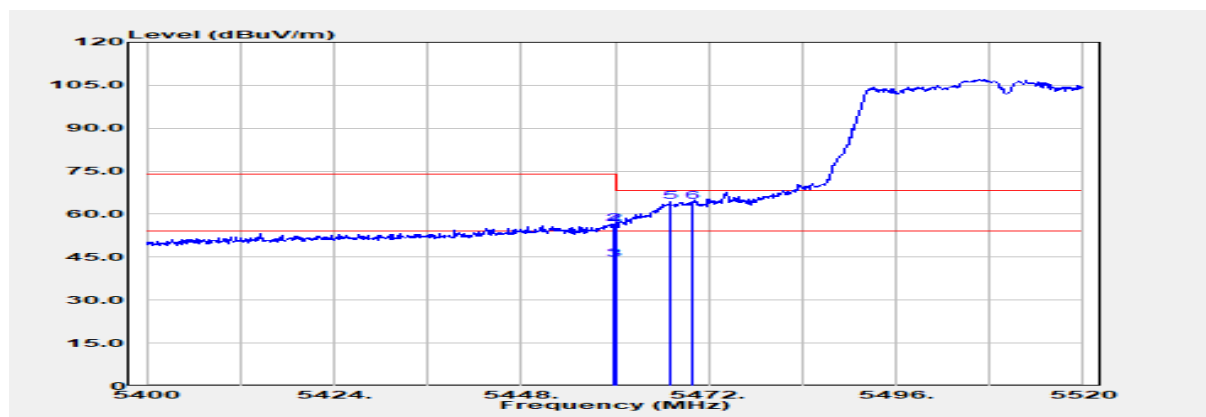
Temp./Humi. :21.7/62

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5459.760	Average	46.42	-2.19	44.24	54.00	-9.76
5459.760	Peak	58.60	-2.19	56.41	74.00	-17.59
5460.000	Average	46.51	-2.18	44.33	54.00	-9.67
5460.000	Peak	58.49	-2.18	56.31	74.00	-17.69
5467.080	Peak	66.61	-2.30	64.31	68.20	-3.89
5470.000	Peak	66.70	-2.35	64.35	68.20	-3.85

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac40 / Band 3

Test Date :2021-07-28

Test Frequency :5510 MHz

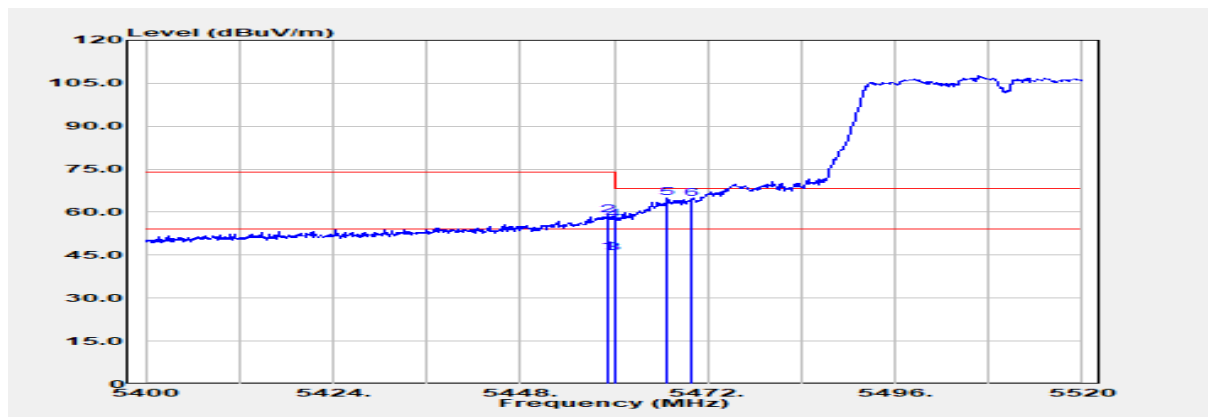
Temp./Humi. :21.7/62

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5459.160	Average	48.07	-2.20	45.87	54.00	-8.13
5459.160	Peak	61.00	-2.20	58.80	74.00	-15.20
5460.000	Average	47.91	-2.18	45.73	54.00	-8.27
5460.000	Peak	59.73	-2.18	57.55	74.00	-16.45
5466.840	Peak	67.41	-2.30	65.11	68.20	-3.09
5470.000	Peak	67.02	-2.35	64.67	68.20	-3.53

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac40 / Band 3

Test Date :2021-07-28

Test Frequency :5670 MHz

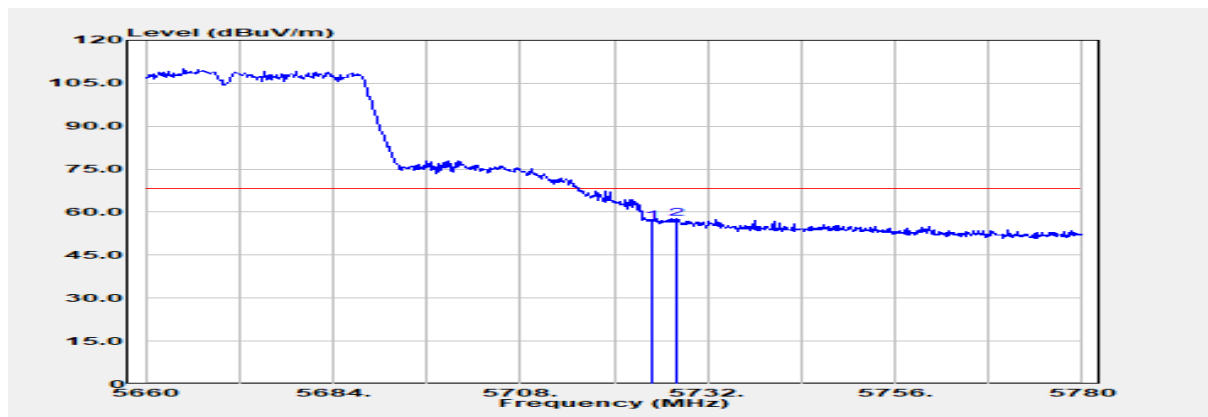
Temp./Humi. :21.7/62

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	58.81	-1.98	56.83	68.20	-11.37
5728.040	Peak	60.02	-2.15	57.88	68.20	-10.32

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac40 / Band 3

Test Date :2021-07-28

Test Frequency :5670 MHz

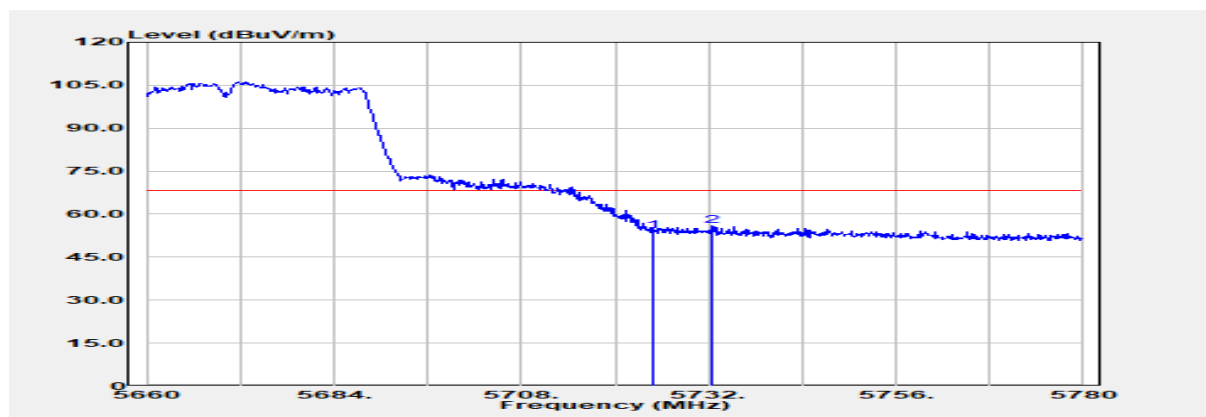
Temp./Humi. :21.7/62

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.000	Peak	56.03	-1.98	54.05	68.20	-14.15
5732.480	Peak	57.91	-2.07	55.83	68.20	-12.37

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac40 / Band 4

Test Date :2021-07-28

Test Frequency :5755 MHz

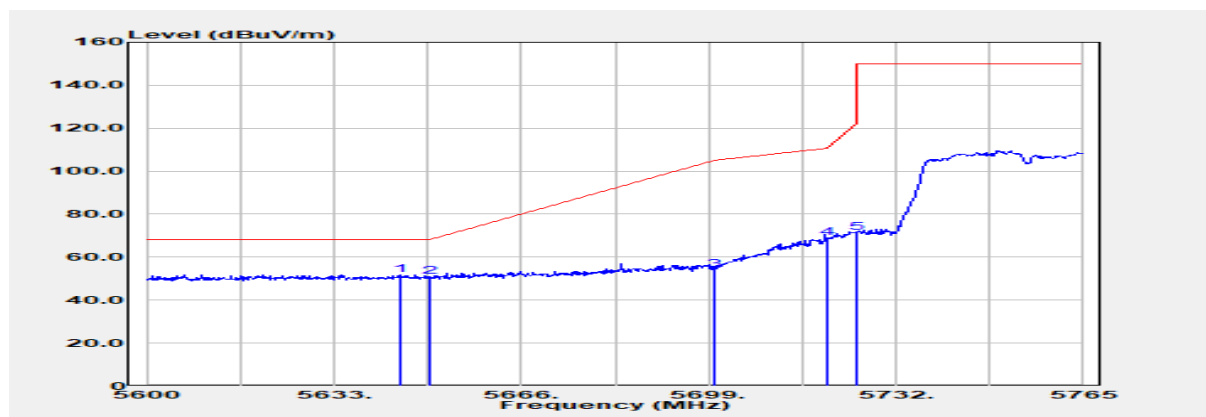
Temp./Humi. :21.7/62

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5644.550	Peak	54.09	-2.26	51.83	68.20	-16.37
5650.000	Peak	53.11	-2.20	50.91	68.20	-17.29
5700.000	Peak	56.36	-2.17	54.19	105.20	-51.01
5720.000	Peak	70.55	-1.70	68.86	110.80	-41.94
5725.000	Peak	73.48	-1.98	71.51	122.20	-50.69

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac40 / Band 4

Test Date :2021-07-28

Test Frequency :5755 MHz

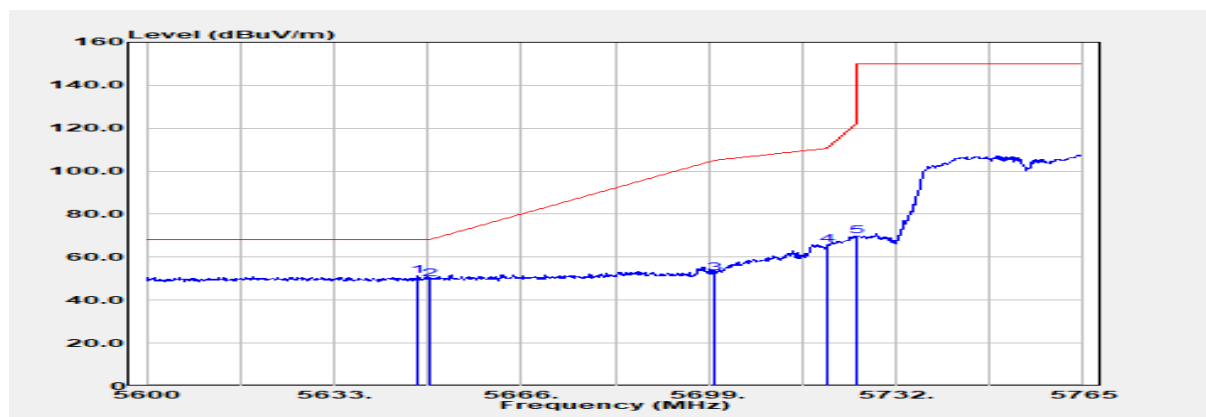
Temp./Humi. :21.7/62

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5647.685	Peak	53.64	-2.23	51.41	68.20	-16.79
5650.000	Peak	52.00	-2.20	49.80	68.20	-18.40
5700.000	Peak	54.64	-2.17	52.47	105.20	-52.73
5720.000	Peak	67.26	-1.70	65.57	110.80	-45.23
5725.000	Peak	71.56	-1.98	69.58	122.20	-52.62

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac40 / Band 4

Test Date :2021-07-28

Test Frequency :5795 MHz

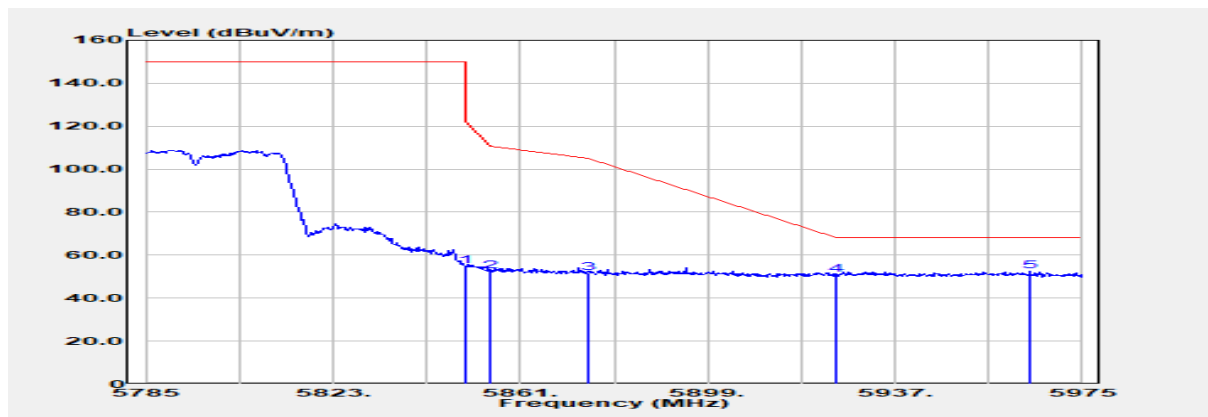
Temp./Humi. :21.7/62

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	56.55	-1.57	54.98	122.20	-67.22
5855.000	Peak	53.99	-1.42	52.58	110.80	-58.22
5875.000	Peak	53.18	-1.42	51.76	105.20	-53.44
5925.000	Peak	52.03	-0.99	51.04	68.20	-17.16
5964.360	Peak	53.32	-0.95	52.36	68.20	-15.84

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac40 / Band 4

Test Date :2021-07-28

Test Frequency :5795 MHz

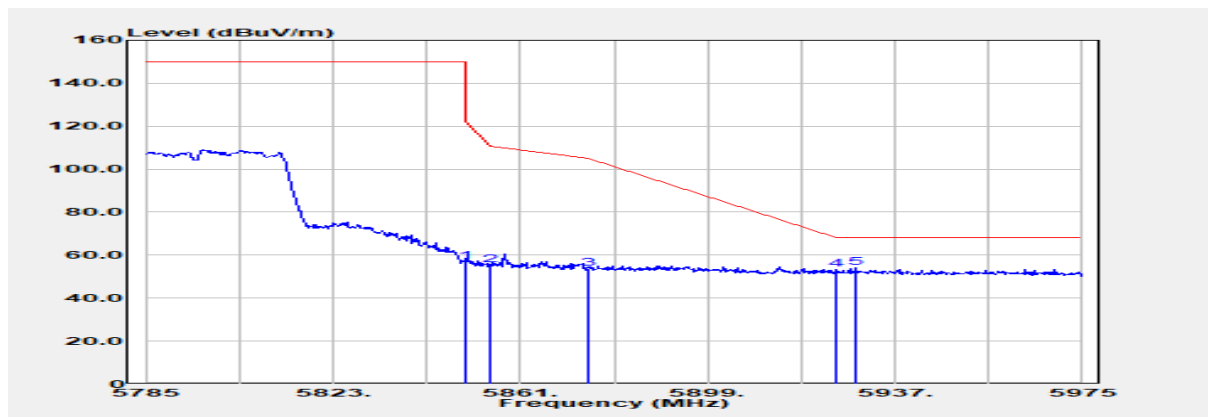
Temp./Humi. :21.7/62

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	58.40	-1.57	56.83	122.20	-65.37
5855.000	Peak	56.96	-1.42	55.54	110.80	-55.26
5875.000	Peak	55.13	-1.42	53.71	105.20	-51.49
5925.000	Peak	54.13	-0.99	53.13	68.20	-15.07
5929.020	Peak	54.99	-0.91	54.09	68.20	-14.11

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac80 / Band 1

Test Date :2021-07-28

Test Frequency :5210 MHz

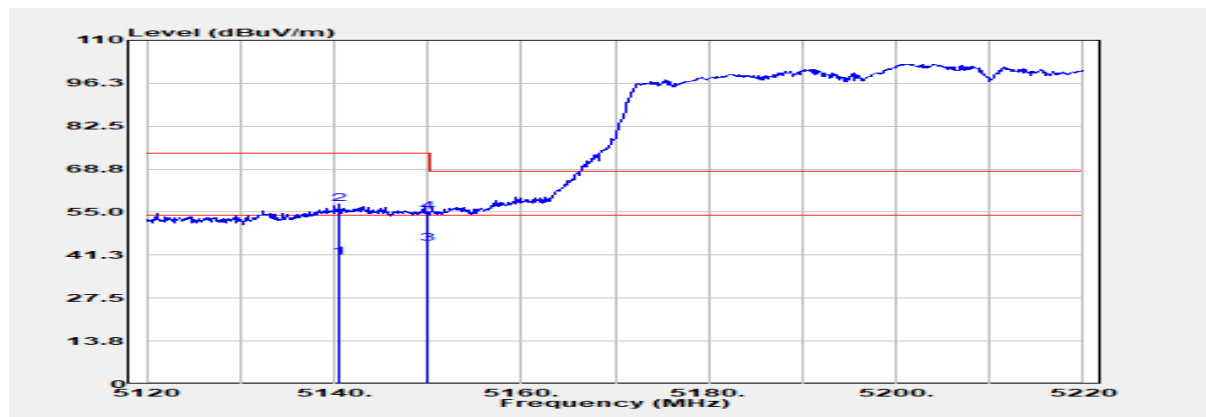
Temp./Humi. :21.7/62

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5140.500	Average	43.05	-2.38	40.66	54.00	-13.34
5140.500	Peak	59.92	-2.38	57.53	74.00	-16.47
5150.000	Average	47.39	-2.53	44.86	54.00	-9.14
5150.000	Peak	57.58	-2.53	55.05	74.00	-18.95

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac80 / Band 1

Test Date :2021-07-28

Test Frequency :5210 MHz

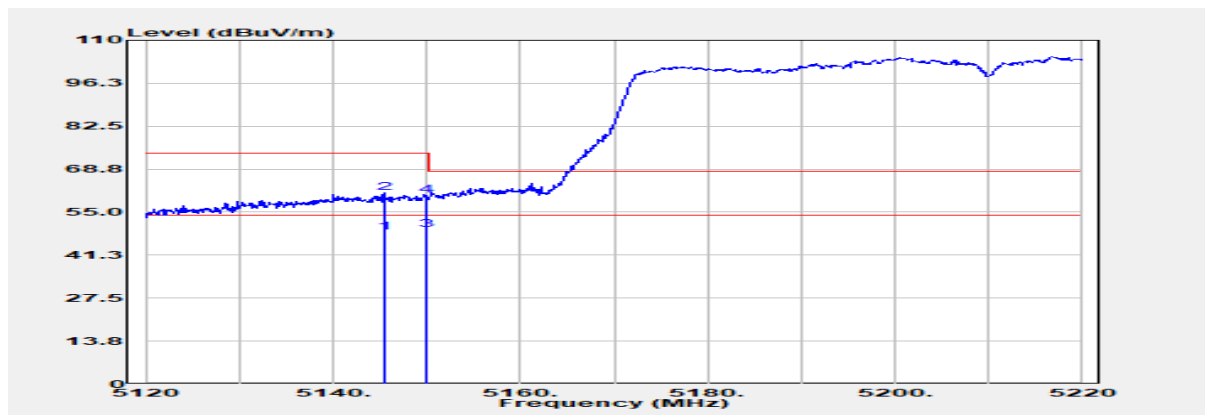
Temp./Humi. :21.7/62

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5145.400	Average	51.10	-2.46	48.65	54.00	-5.35
5145.400	Peak	63.56	-2.46	61.10	74.00	-12.90
5150.000	Average	52.00	-2.53	49.47	54.00	-4.53
5150.000	Peak	62.87	-2.53	60.35	74.00	-13.65

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac80 / Band 2

Test Date :2021-07-28

Test Frequency :5290 MHz

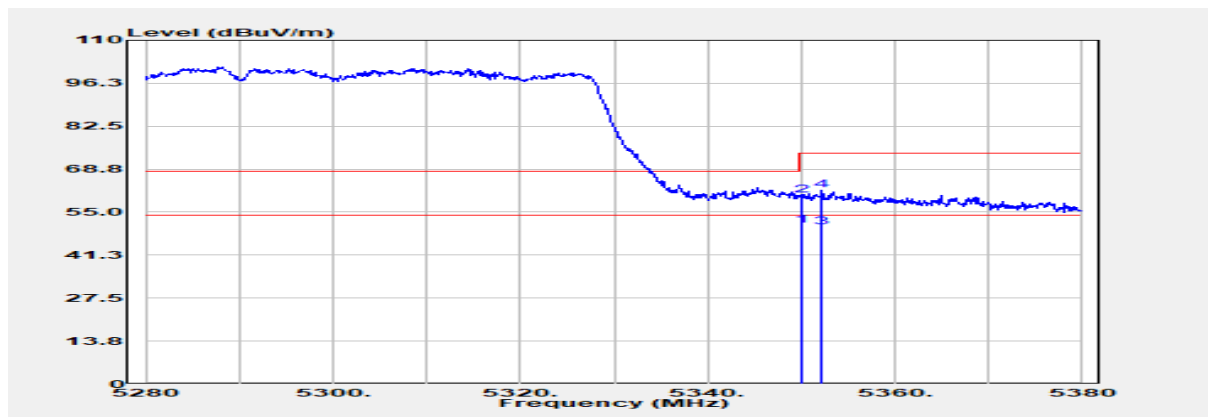
Temp./Humi. :21.7/62

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Jack Tseng



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
5350.000	Average	53.42	-2.66	50.75	54.00	-3.25
5350.000	Peak	63.04	-2.66	60.38	74.00	-13.62
5352.200	Average	52.85	-2.76	50.09	54.00	-3.91
5352.200	Peak	64.67	-2.76	61.91	74.00	-12.09

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac80 / Band 2

Test Date :2021-07-28

Test Frequency :5290 MHz

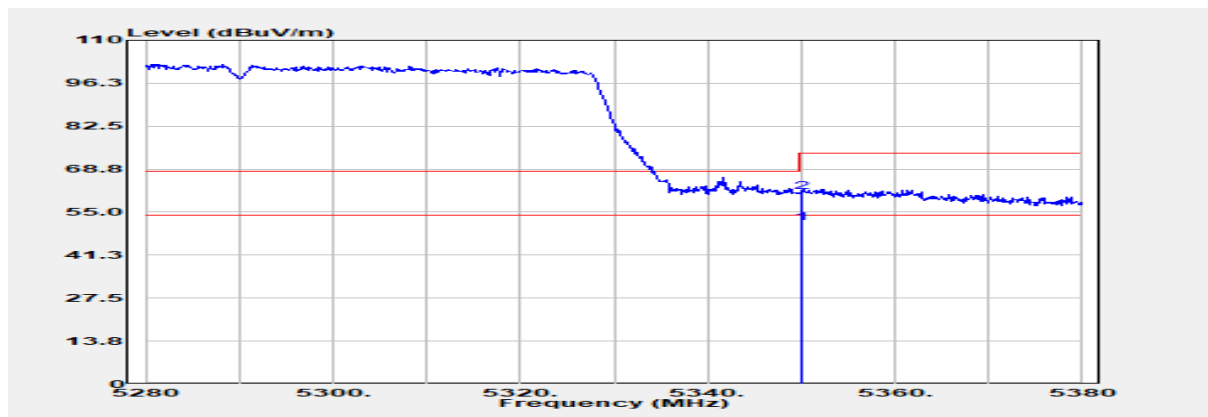
Temp./Humi. :21.7/62

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	54.13	-2.66	51.46	54.00	-2.54
5350.000	Peak	64.02	-2.66	61.35	74.00	-12.65

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac80 / Band 3

Test Date :2021-07-28

Test Frequency :5530 MHz

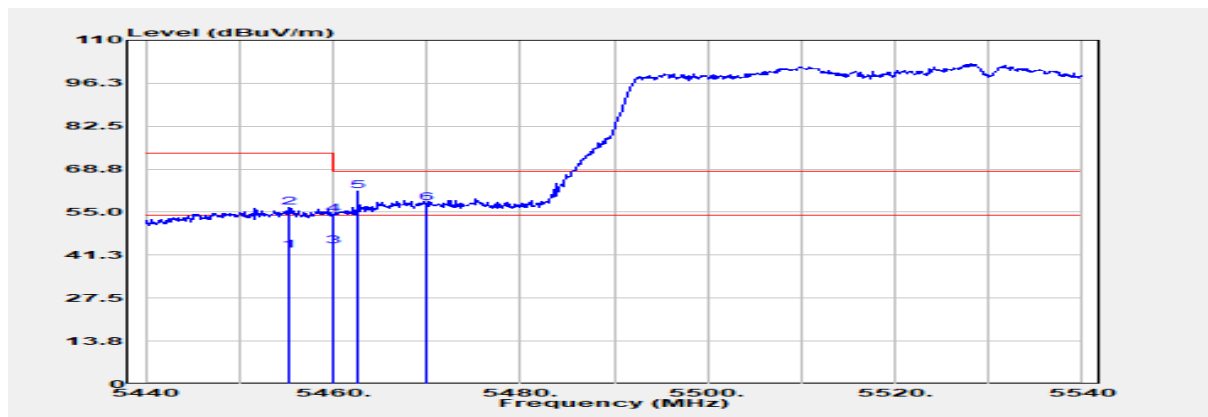
Temp./Humi. :21.7/62

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5455.200	Average	44.97	-2.29	42.67	54.00	-11.33
5455.200	Peak	58.77	-2.29	56.48	74.00	-17.52
5460.000	Average	46.37	-2.18	44.19	54.00	-9.81
5460.000	Peak	56.49	-2.18	54.30	74.00	-19.70
5462.600	Peak	63.90	-2.23	61.67	68.20	-6.53
5470.000	Peak	60.27	-2.35	57.92	68.20	-10.28

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac80 / Band 3

Test Date :2021-07-28

Test Frequency :5530 MHz

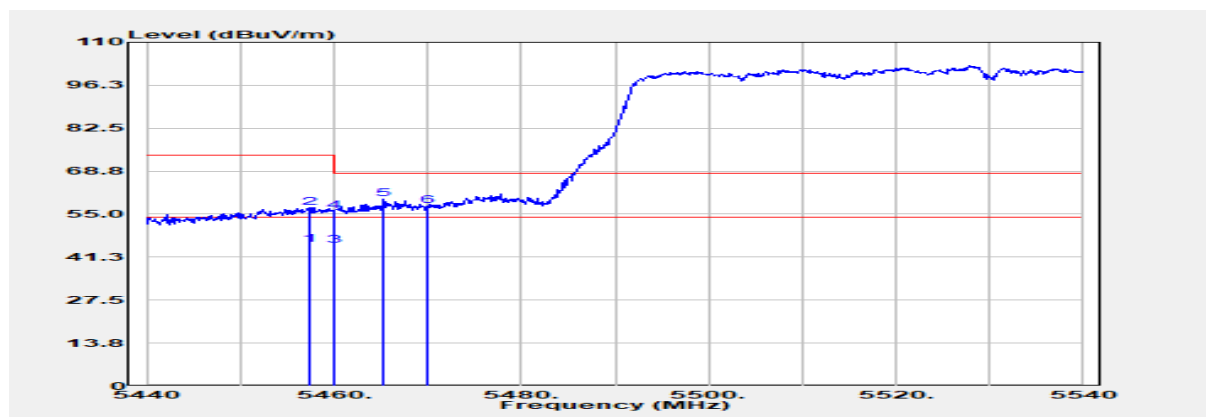
Temp./Humi. :21.7/62

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5457.300	Average	47.54	-2.24	45.30	54.00	-8.70
5457.300	Peak	59.42	-2.24	57.18	74.00	-16.82
5460.000	Average	47.08	-2.18	44.90	54.00	-9.10
5460.000	Peak	58.09	-2.18	55.91	74.00	-18.09
5465.300	Peak	62.22	-2.27	59.95	68.20	-8.25
5470.000	Peak	59.97	-2.35	57.63	68.20	-10.57

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac80 / Band 4

Test Date :2021-07-28

Test Frequency :5775 MHz

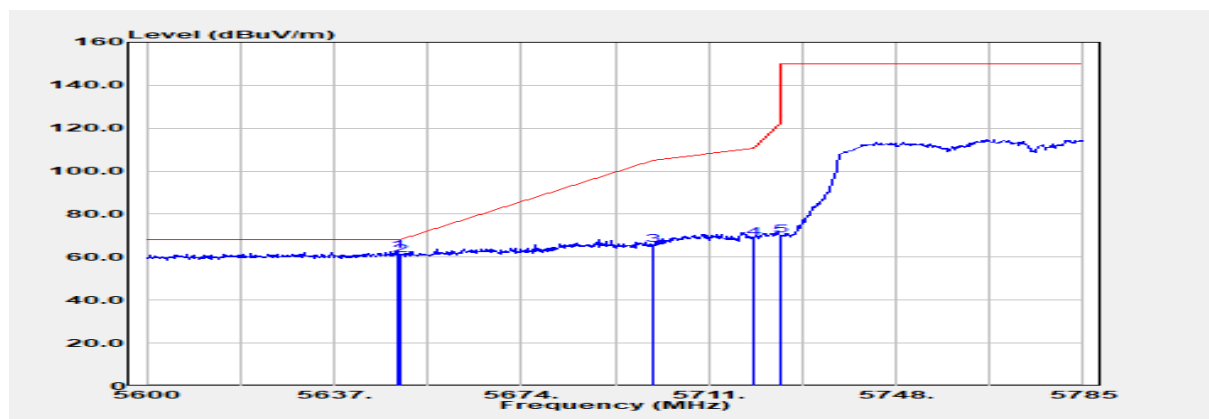
Temp./Humi. :21.7/62

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5649.580	Peak	64.99	-2.20	62.79	68.20	-5.41
5650.000	Peak	63.11	-2.20	60.91	68.20	-7.29
5700.000	Peak	67.94	-2.17	65.77	105.20	-39.43
5720.000	Peak	70.78	-1.70	69.08	110.80	-41.72
5725.000	Peak	72.01	-1.98	70.04	122.20	-52.16

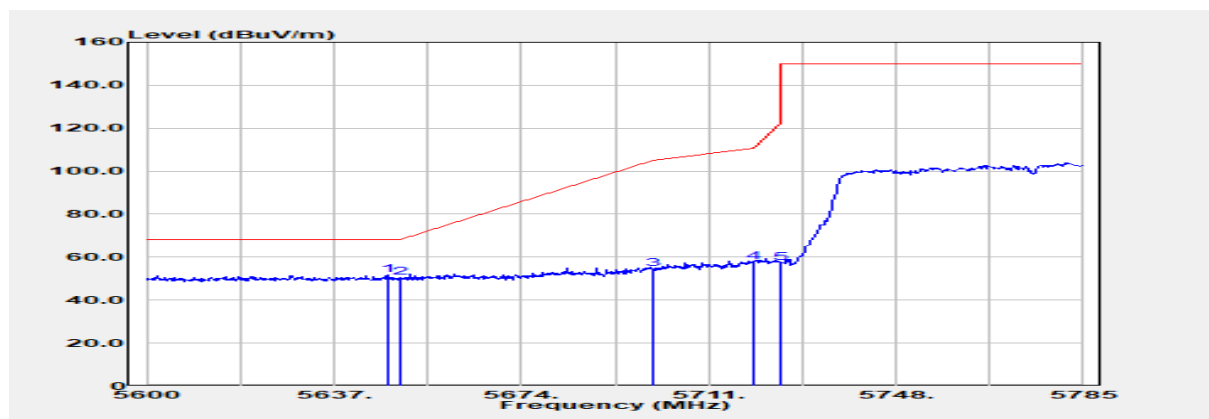
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Report Number :E2/2021/70042
 Operation Mode :802.11ac80 / Band 4
 Test Frequency :5775 MHz
 Test Mode :BE CH LOW
 EUT Pol :H Plane

Test Site :SAC D
 Test Date :2021-07-28
 Temp./Humi. :21.7/62
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5647.730	Peak	54.08	-2.23	51.86	68.20	-16.34
5650.000	Peak	52.74	-2.20	50.54	68.20	-17.66
5700.000	Peak	56.59	-2.17	54.42	105.20	-50.78
5720.000	Peak	59.48	-1.70	57.78	110.80	-53.02
5725.000	Peak	59.45	-1.98	57.47	122.20	-64.73

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac80 / Band 4

Test Date :2021-07-28

Test Frequency :5775 MHz

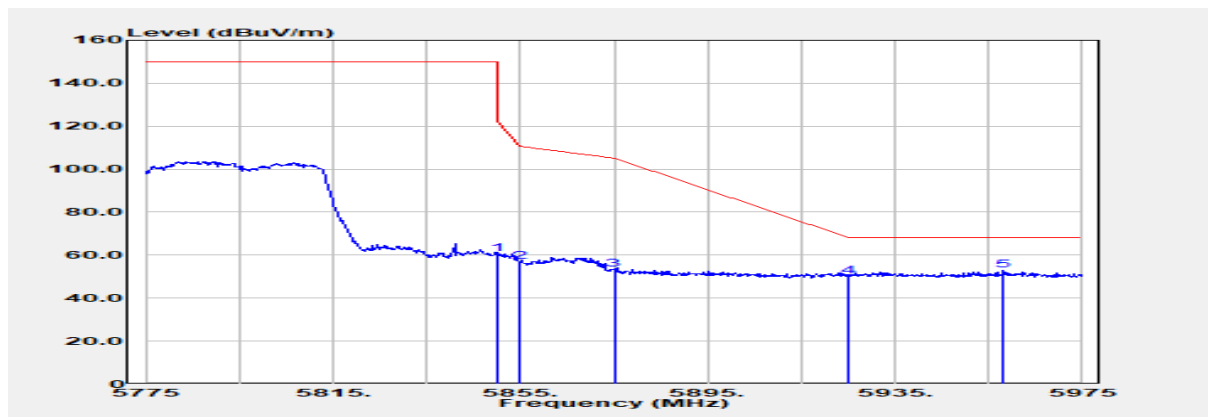
Temp./Humi. :21.7/62

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	61.97	-1.57	60.40	122.20	-61.80
5855.000	Peak	58.38	-1.42	56.96	110.80	-53.84
5875.000	Peak	54.87	-1.42	53.45	105.20	-51.75
5925.000	Peak	51.27	-0.99	50.28	68.20	-17.92
5958.200	Peak	53.80	-0.78	53.02	68.20	-15.18

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Report Number :E2/2021/70042

Test Site :SAC D

Operation Mode :802.11ac80 / Band 4

Test Date :2021-07-28

Test Frequency :5775 MHz

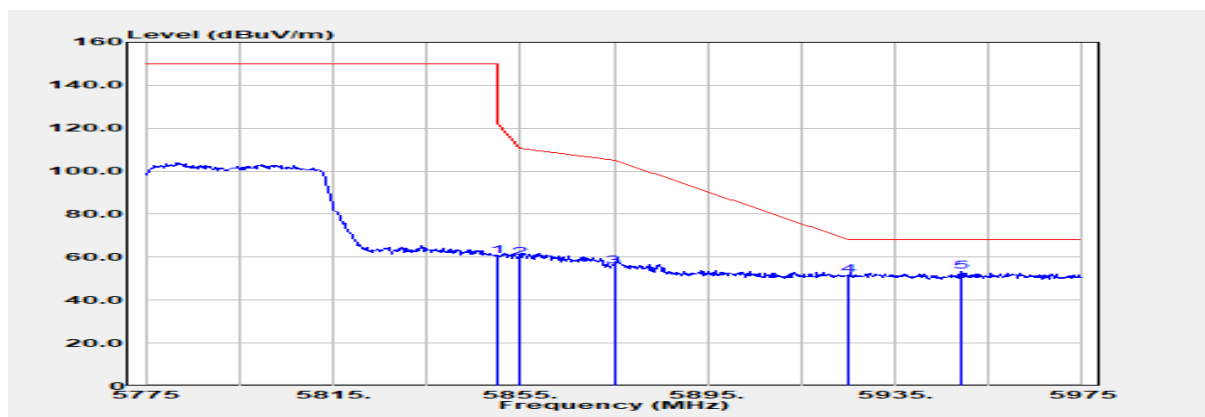
Temp./Humi. :21.7/62

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Jack Tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	61.94	-1.57	60.37	122.20	-61.83
5855.000	Peak	61.33	-1.42	59.91	110.80	-50.89
5875.000	Peak	57.33	-1.42	55.91	105.20	-49.29
5925.000	Peak	52.79	-0.99	51.80	68.20	-16.40
5949.200	Peak	54.37	-1.17	53.21	68.20	-14.99

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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 ANTENNA REQUIREMENT

13.1 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.

13.2 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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