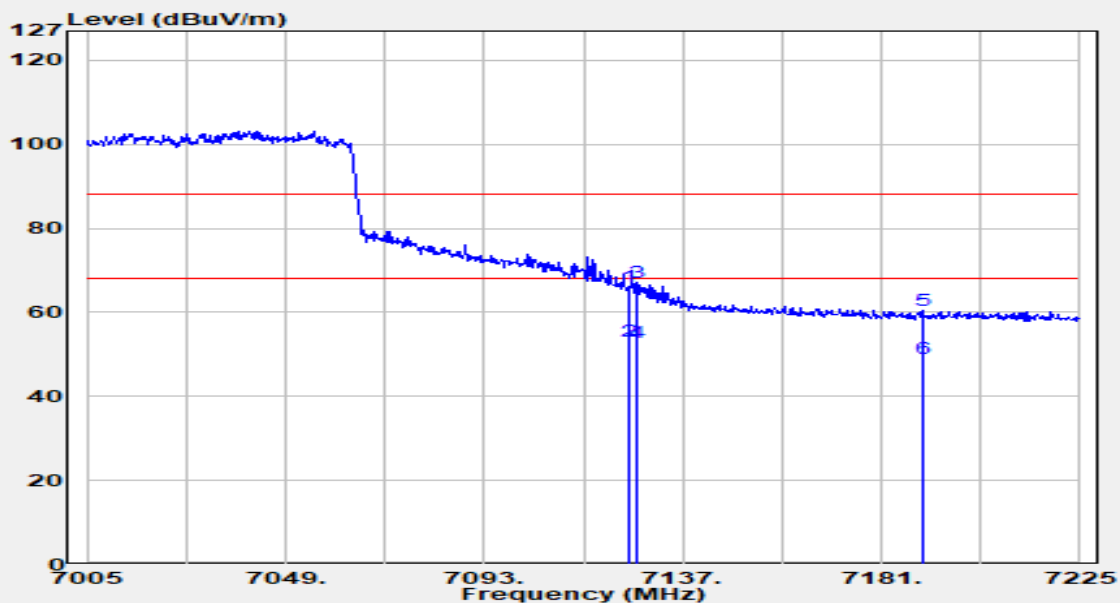


Report Number :TERF2211002261ER
 Operation Mode :802.11ax80 RU Full
 Test Frequency :7025 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



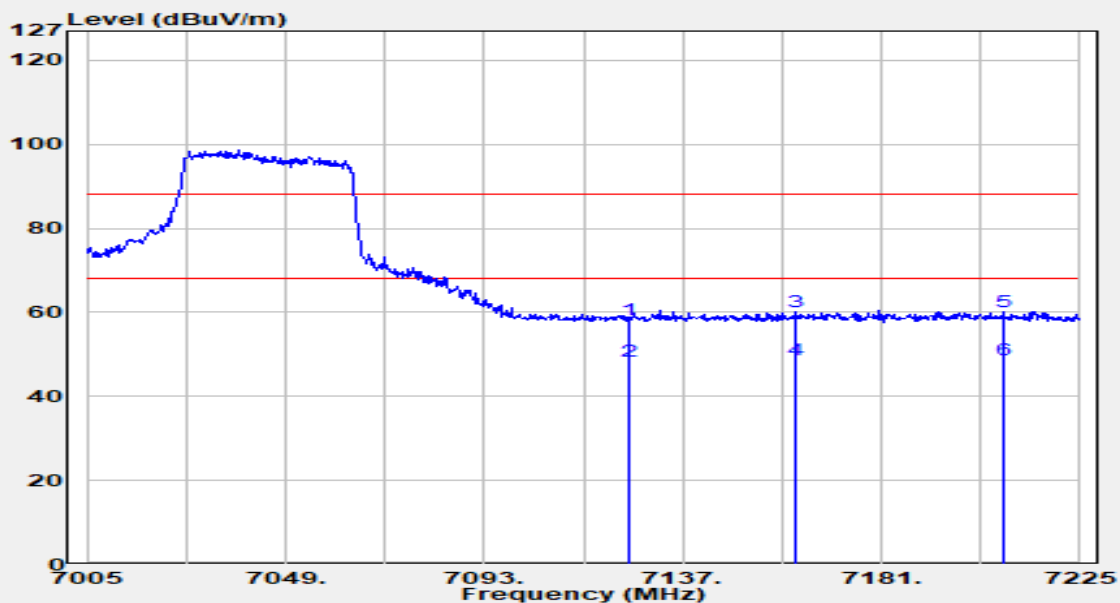
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	59.25	7.07	66.32	88.20	-21.88
7125.000	Average	46.05	7.07	53.12	68.20	-15.08
7126.880	Peak	59.94	7.09	67.03	88.20	-21.17
7126.880	Average	45.59	7.09	52.68	68.20	-15.52
7190.020	Peak	53.23	7.40	60.63	88.20	-27.57
7190.020	Average	41.56	7.40	48.96	68.20	-19.24

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax80 RU 484/66
 Test Frequency :7025 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7125.000	Peak	51.26	7.07	58.33	88.20	-29.87
7125.000	Average	41.39	7.07	48.46	68.20	-19.74
7161.860	Peak	52.68	7.38	60.06	88.20	-28.14
7161.860	Average	41.26	7.38	48.64	68.20	-19.56
7208.060	Peak	52.81	7.28	60.09	88.20	-28.11
7208.060	Average	41.32	7.28	48.60	68.20	-19.60

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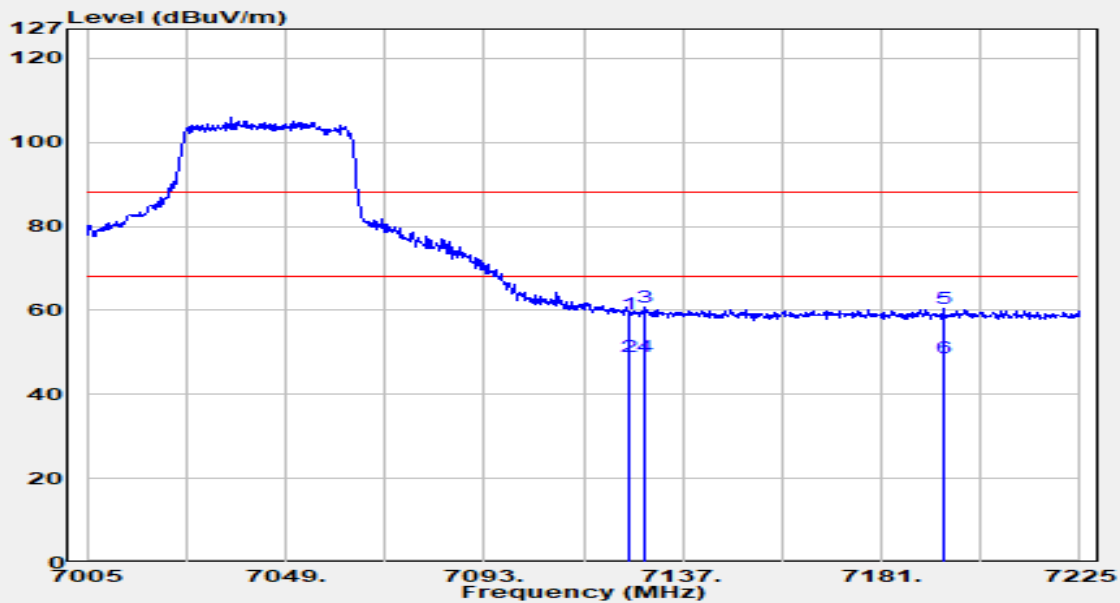
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Report Number :TERF2211002261ER
 Operation Mode :802.11ax80 RU 484/66
 Test Frequency :7025 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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
7125.000	Peak	52.16	7.07	59.23	88.20	-28.97
7125.000	Average	41.98	7.07	49.05	68.20	-19.15
7128.640	Peak	53.59	7.11	60.70	88.20	-27.50
7128.640	Average	41.81	7.11	48.92	68.20	-19.28
7194.860	Peak	52.96	7.41	60.36	88.20	-27.84
7194.860	Average	41.38	7.41	48.79	68.20	-19.41

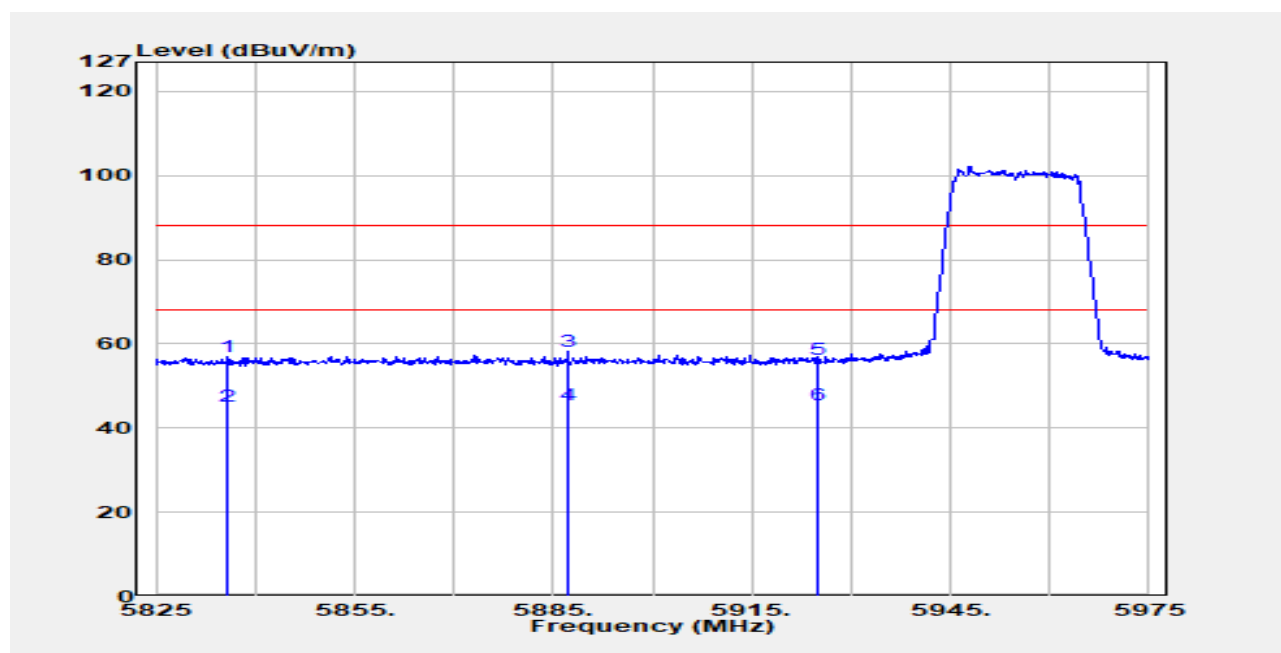
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MIMO

Report Number :TERF2211002261ER
 Operation Mode :802.11ax20 RU Full
 Test Frequency :5955 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



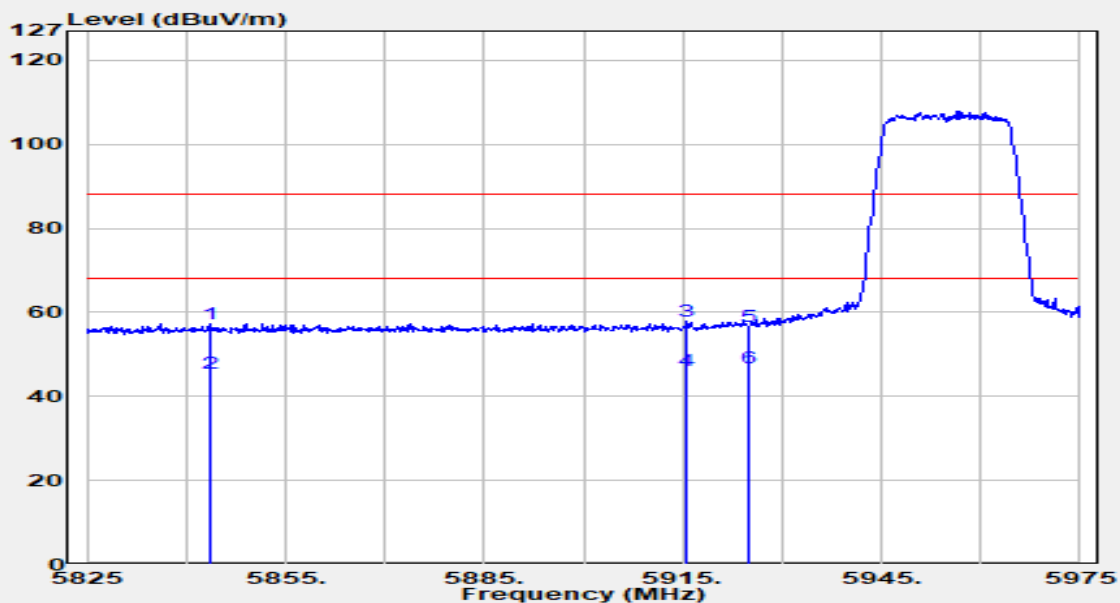
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5835.800	Peak	53.47	3.53	57.00	88.20	-31.20
5835.800	Average	41.79	3.53	45.32	68.20	-22.88
5887.250	Peak	54.40	3.72	58.12	88.20	-30.08
5887.250	Average	41.65	3.72	45.37	68.20	-22.83
5925.000	Peak	52.74	3.61	56.36	88.20	-31.84
5925.000	Average	42.02	3.61	45.63	68.20	-22.57

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax20 RU Full
 Test Frequency :5955 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



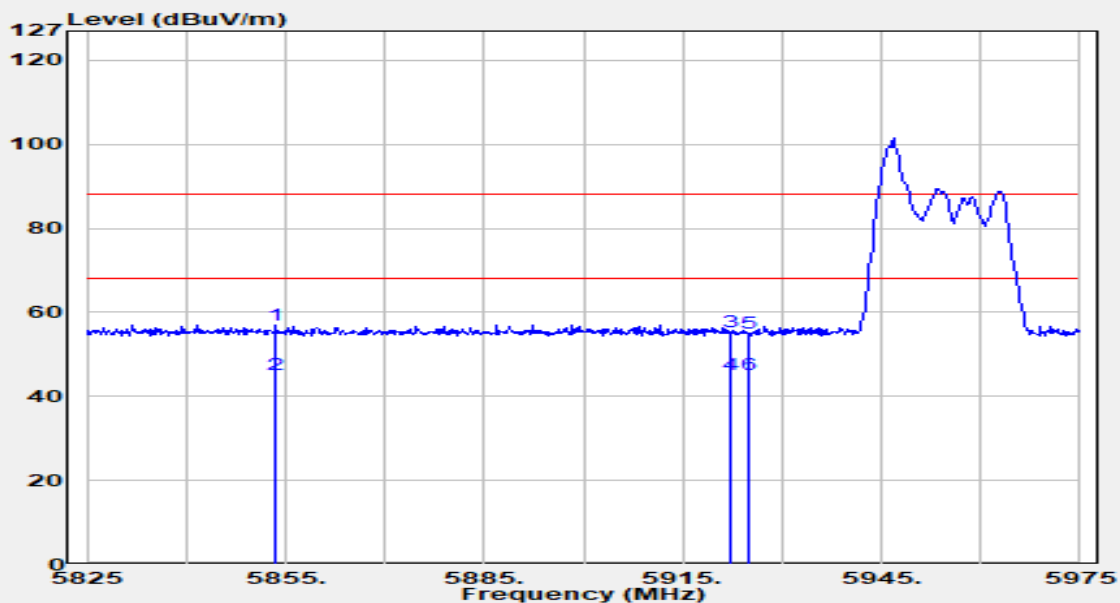
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5843.750	Peak	53.66	3.61	57.27	88.20	-30.93
5843.750	Average	41.84	3.61	45.45	68.20	-22.75
5915.600	Peak	54.32	3.66	57.98	88.20	-30.22
5915.600	Average	42.37	3.66	46.03	68.20	-22.17
5925.000	Peak	53.07	3.61	56.68	88.20	-31.52
5925.000	Average	43.21	3.61	46.82	68.20	-21.38

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax20 RU 26/0
 Test Frequency :5955 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



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
5853.500	Peak	53.39	3.68	57.07	88.20	-31.13
5853.500	Average	41.66	3.68	45.34	68.20	-22.86
5922.150	Peak	51.83	3.63	55.46	88.20	-32.74
5922.150	Average	41.67	3.63	45.30	68.20	-22.90
5925.000	Peak	51.36	3.61	54.98	88.20	-33.22
5925.000	Average	41.62	3.61	45.23	68.20	-22.97

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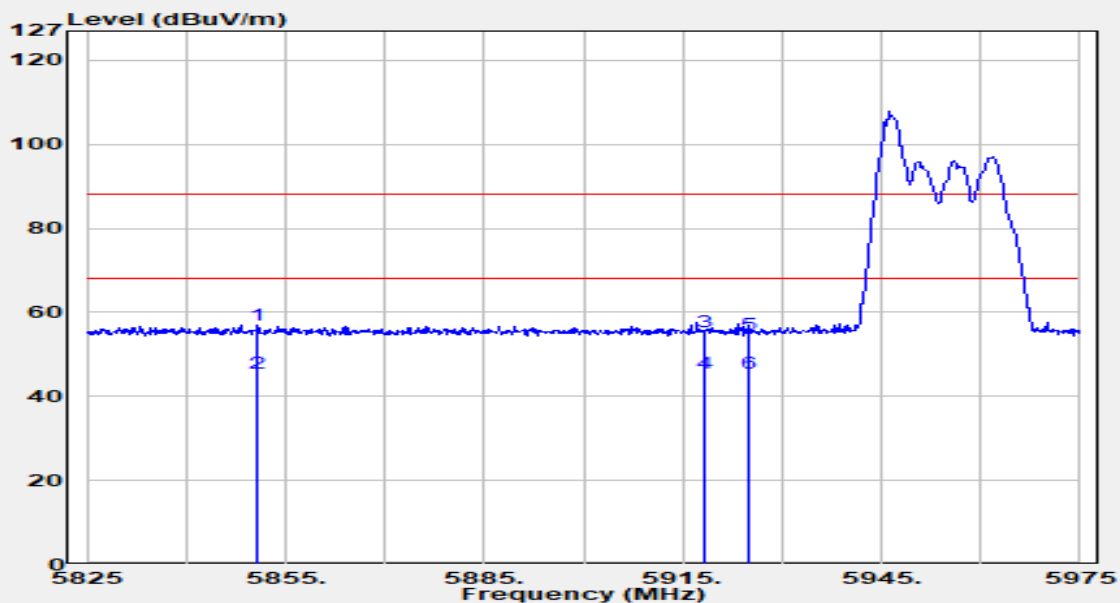
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Report Number :TERF2211002261ER
 Operation Mode :802.11ax20 RU 26/0
 Test Frequency :5955 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



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
5850.800	Peak	53.30	3.68	56.98	88.20	-31.22
5850.800	Average	41.70	3.68	45.38	68.20	-22.82
5918.400	Peak	51.87	3.65	55.51	88.20	-32.69
5918.400	Average	41.77	3.65	45.42	68.20	-22.78
5925.000	Peak	51.26	3.61	54.88	88.20	-33.32
5925.000	Average	41.75	3.61	45.36	68.20	-22.84

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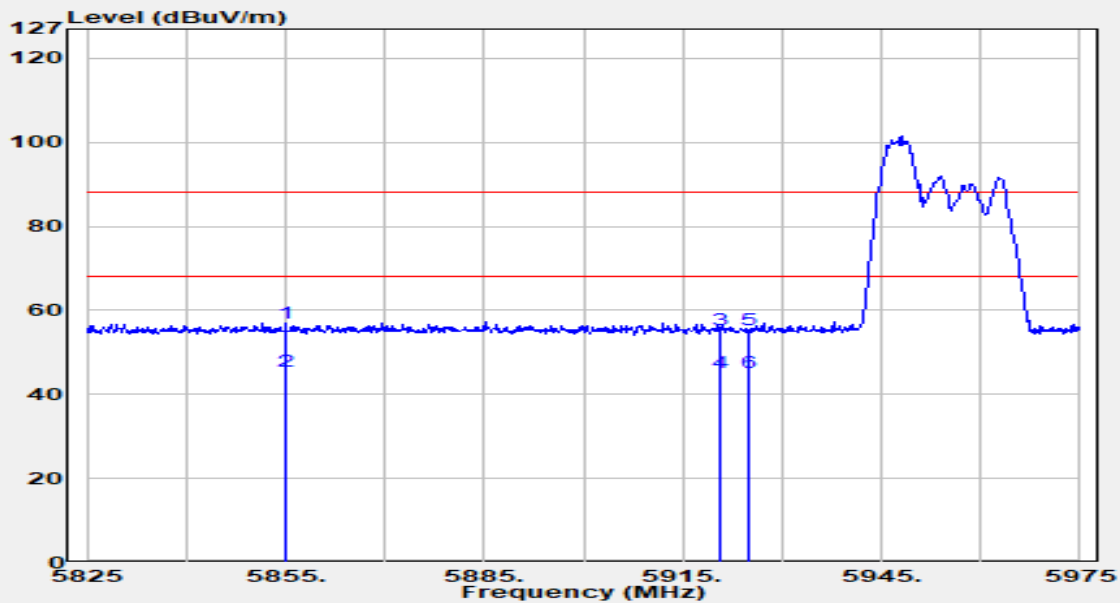
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Report Number :TERF2211002261ER
 Operation Mode :802.11ax20 RU 52/37
 Test Frequency :5955 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5855.000	Peak	53.38	3.69	57.07	88.20	-31.13
5855.000	Average	41.70	3.69	45.39	68.20	-22.81
5920.800	Peak	51.62	3.63	55.26	88.20	-32.94
5920.800	Average	41.68	3.63	45.31	68.20	-22.89
5925.000	Peak	51.68	3.61	55.29	88.20	-32.91
5925.000	Average	41.60	3.61	45.21	68.20	-22.99

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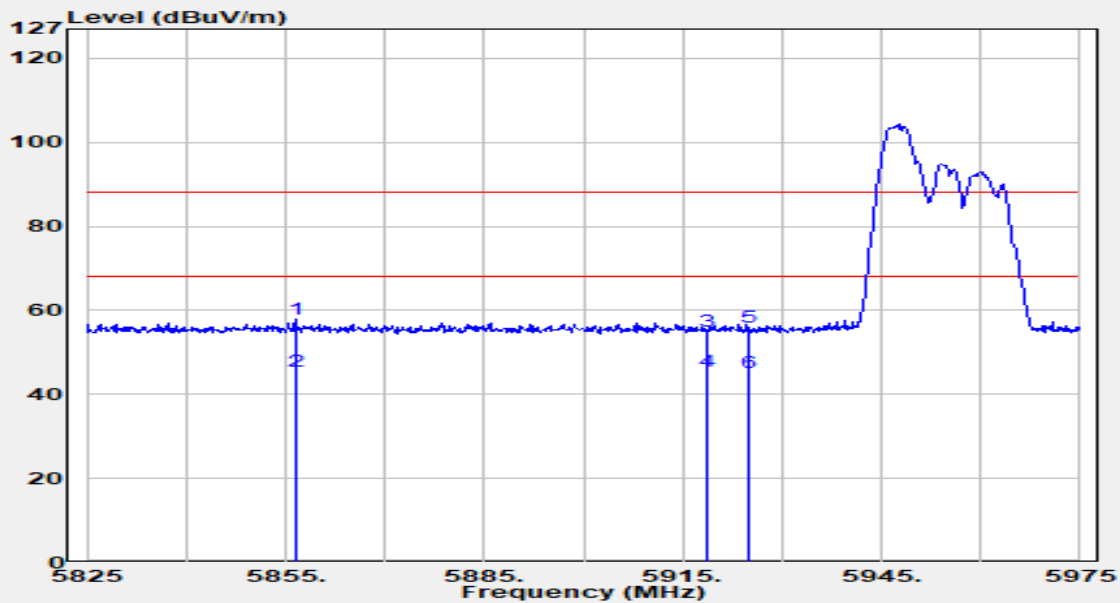
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Report Number :TERF2211002261ER
 Operation Mode :802.11ax20 RU 52/37
 Test Frequency :5955 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



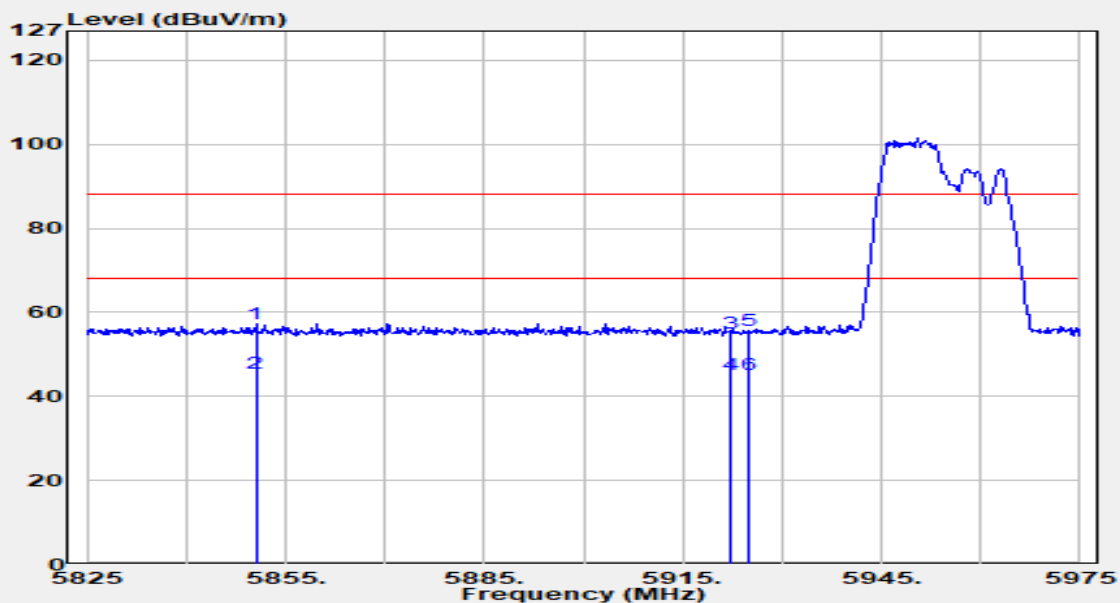
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5856.500	Peak	54.25	3.69	57.93	88.20	-30.27
5856.500	Average	41.71	3.69	45.40	68.20	-22.80
5918.850	Peak	51.27	3.64	54.91	88.20	-33.29
5918.850	Average	41.74	3.64	45.38	68.20	-22.82
5925.000	Peak	52.27	3.61	55.89	88.20	-32.31
5925.000	Average	41.70	3.61	45.31	68.20	-22.89

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Report Number :TERF2211002261ER
Operation Mode :802.11ax20 RU 106/53
Test Frequency :5955 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-02-16
Temp./Humi. :23.9/63
Antenna Pol. :Vertical
Engineer :Ricky Chen



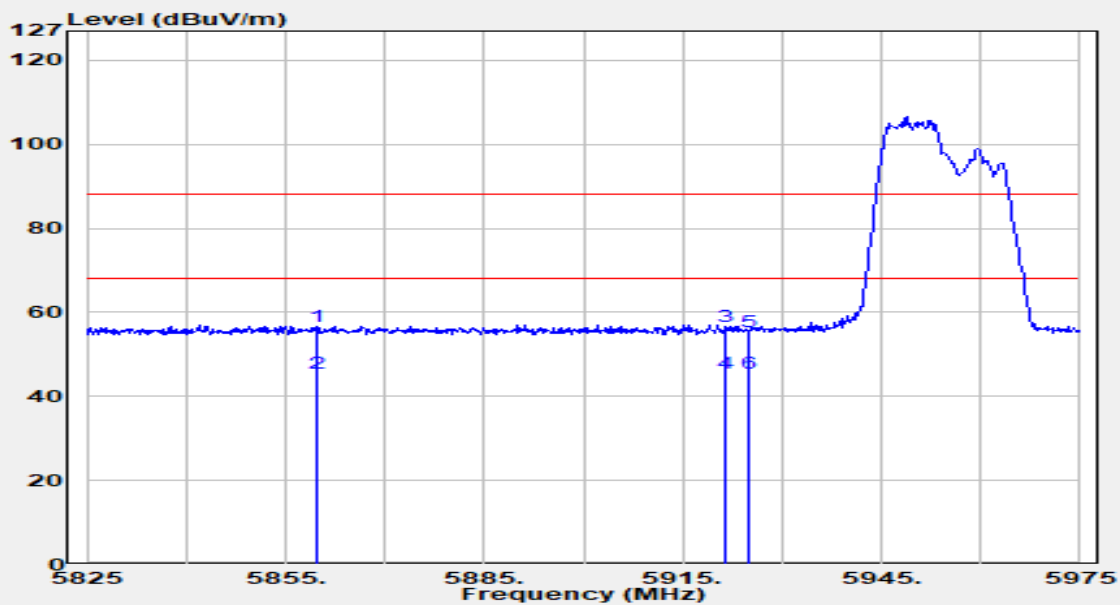
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5850.500	Peak	53.54	3.68	57.22	88.20	-30.98
5850.500	Average	41.70	3.68	45.38	68.20	-22.82
5922.300	Peak	51.46	3.63	55.09	88.20	-33.11
5922.300	Average	41.71	3.63	45.34	68.20	-22.86
5925.000	Peak	52.12	3.61	55.74	88.20	-32.46
5925.000	Average	41.64	3.61	45.25	68.20	-22.95

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax20 RU 106/53
 Test Frequency :5955 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5859.650	Peak	53.12	3.69	56.81	88.20	-31.39
5859.650	Average	41.73	3.69	45.42	68.20	-22.78
5921.550	Peak	52.96	3.63	56.59	88.20	-31.61
5921.550	Average	41.89	3.63	45.52	68.20	-22.68
5925.000	Peak	51.72	3.61	55.33	88.20	-32.87
5925.000	Average	41.88	3.61	45.49	68.20	-22.71

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

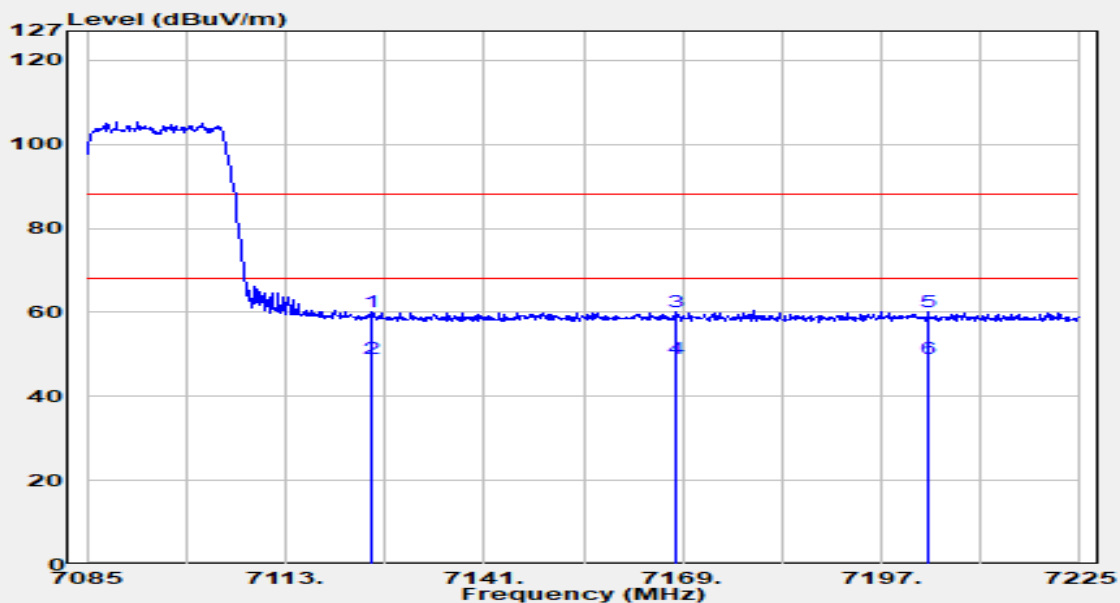
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2211002261ER
 Operation Mode :802.11ax20 RU Full
 Test Frequency :7095 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



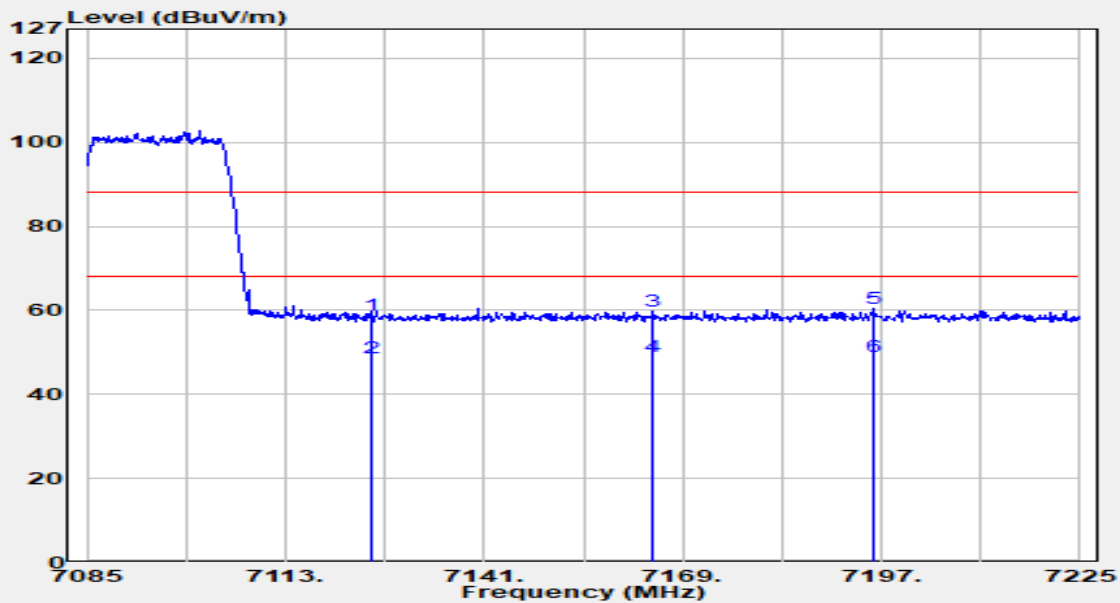
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
7125.000	Peak	53.12	7.07	60.19	88.20	-28.01
7125.000	Average	42.02	7.07	49.09	68.20	-19.11
7167.880	Peak	52.71	7.38	60.09	88.20	-28.11
7167.880	Average	41.60	7.38	48.98	68.20	-19.22
7203.440	Peak	52.88	7.36	60.24	88.20	-27.96
7203.440	Average	41.58	7.36	48.94	68.20	-19.26

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax20 RU Full
 Test Frequency :7095 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



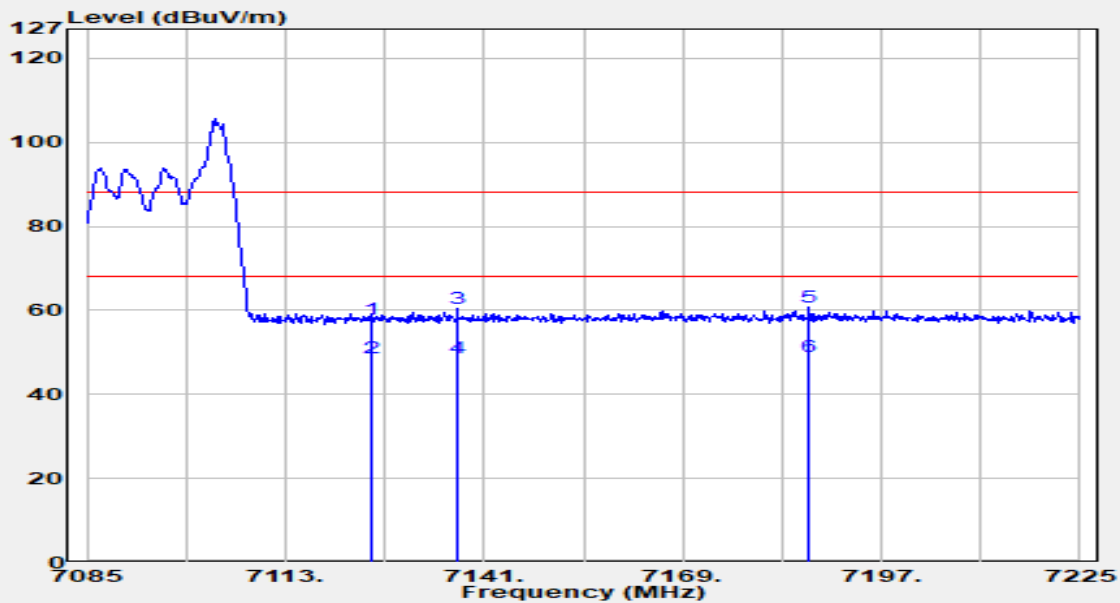
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7125.000	Peak	51.88	7.07	58.95	88.20	-29.25
7125.000	Average	41.77	7.07	48.84	68.20	-19.36
7164.800	Peak	52.43	7.38	59.81	88.20	-28.39
7164.800	Average	41.49	7.38	48.87	68.20	-19.33
7196.020	Peak	53.04	7.41	60.45	88.20	-27.75
7196.020	Average	41.54	7.41	48.95	68.20	-19.25

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax20 RU 26/8
 Test Frequency :7095 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



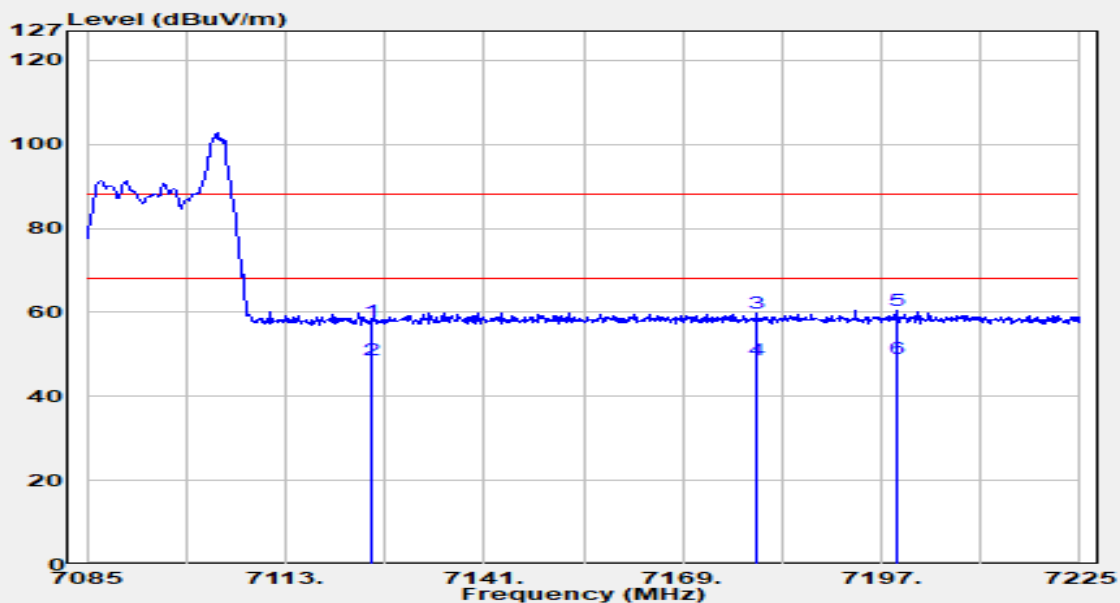
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	50.74	7.07	57.81	88.20	-30.39
7125.000	Average	41.55	7.07	48.62	68.20	-19.58
7137.220	Peak	53.25	7.22	60.47	88.20	-27.73
7137.220	Average	41.54	7.22	48.76	68.20	-19.44
7186.780	Peak	53.36	7.40	60.76	88.20	-27.44
7186.780	Average	41.49	7.40	48.89	68.20	-19.31

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax20 RU 26/8
 Test Frequency :7095 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



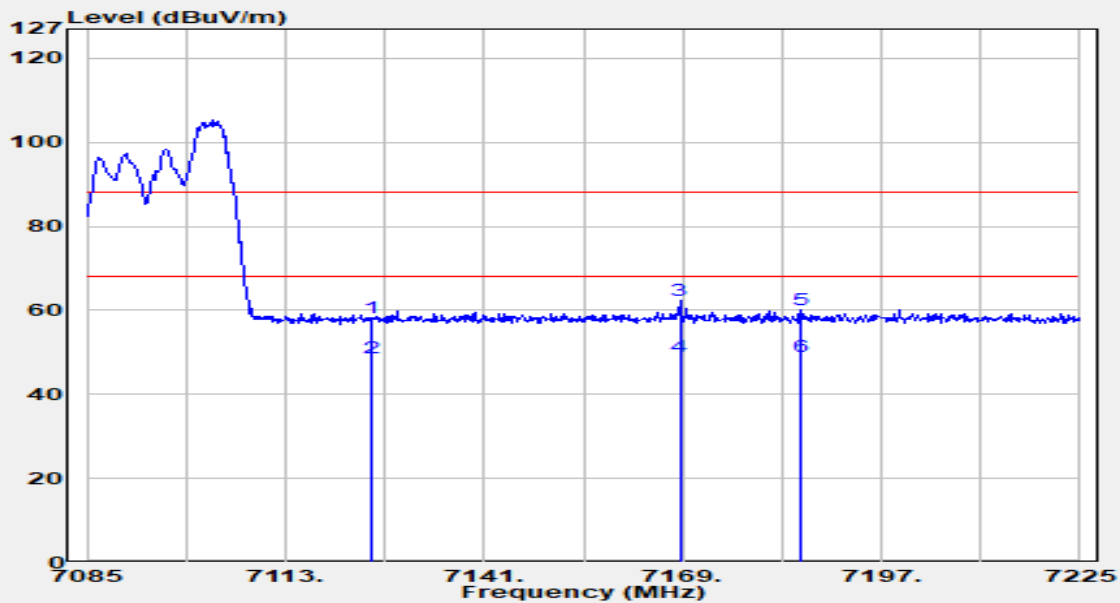
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7125.000	Peak	50.78	7.07	57.85	88.20	-30.35
7125.000	Average	41.50	7.07	48.57	68.20	-19.63
7179.500	Peak	52.59	7.39	59.98	88.20	-28.22
7179.500	Average	41.45	7.39	48.84	68.20	-19.36
7199.100	Peak	52.94	7.41	60.35	88.20	-27.85
7199.100	Average	41.55	7.41	48.96	68.20	-19.24

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax20 RU 52/40
 Test Frequency :7095 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



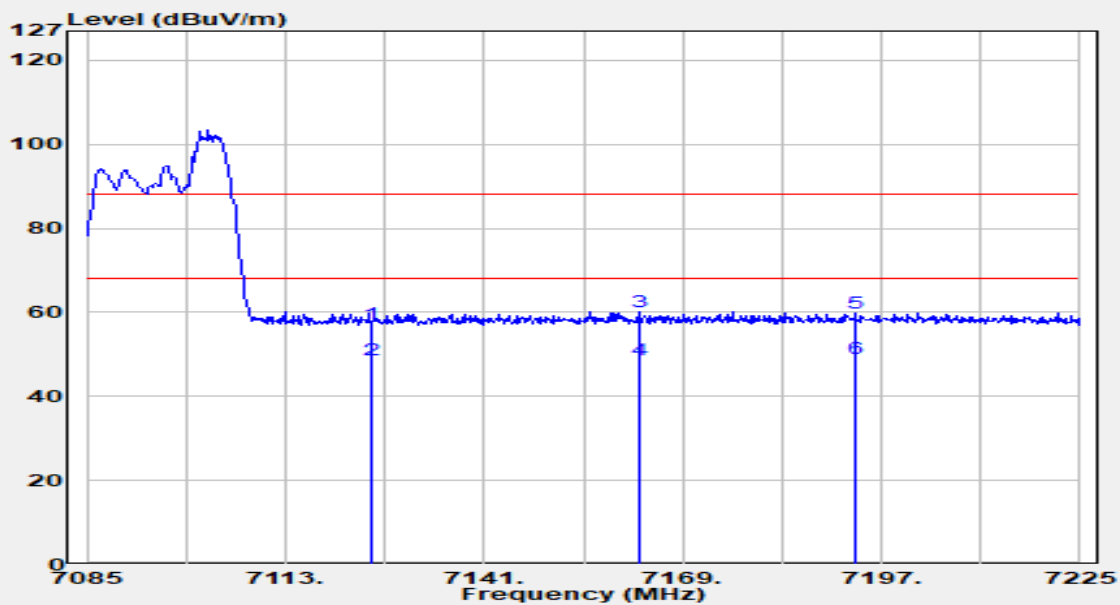
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	51.22	7.07	58.29	88.20	-29.91
7125.000	Average	41.58	7.07	48.65	68.20	-19.55
7168.580	Peak	55.12	7.38	62.50	88.20	-25.70
7168.580	Average	41.57	7.38	48.95	68.20	-19.25
7185.660	Peak	52.63	7.40	60.03	88.20	-28.17
7185.660	Average	41.48	7.40	48.88	68.20	-19.32

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax20 RU 52/40
 Test Frequency :7095 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



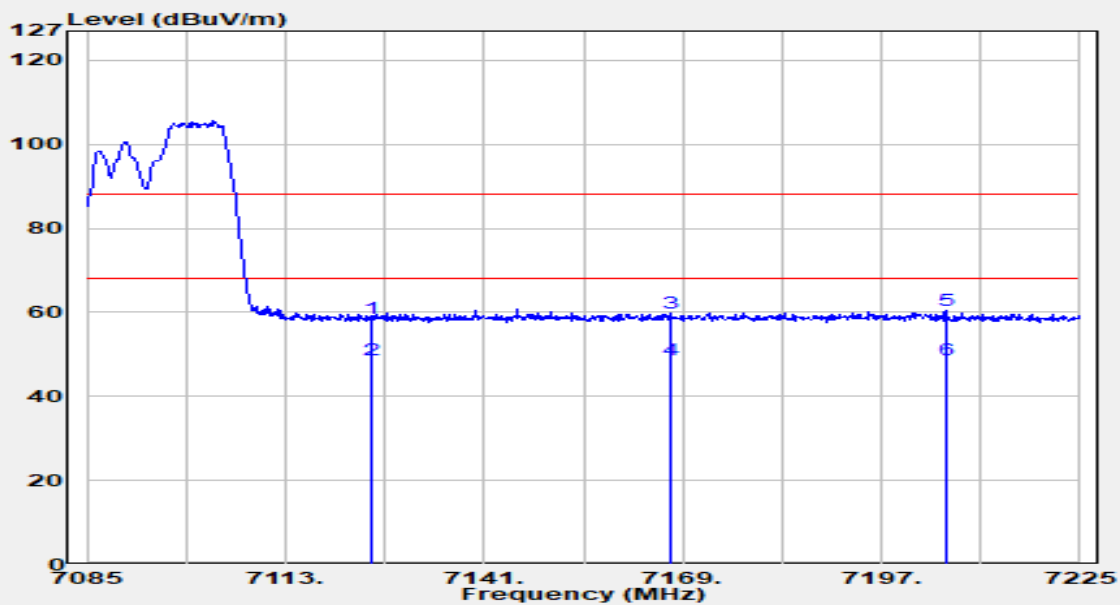
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7125.000	Peak	50.33	7.07	57.40	88.20	-30.80
7125.000	Average	41.56	7.07	48.63	68.20	-19.57
7162.840	Peak	52.88	7.38	60.26	88.20	-27.94
7162.840	Average	41.44	7.38	48.82	68.20	-19.38
7193.360	Peak	52.41	7.40	59.82	88.20	-28.38
7193.360	Average	41.52	7.40	48.92	68.20	-19.28

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax20 RU 106/54
 Test Frequency :7095 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



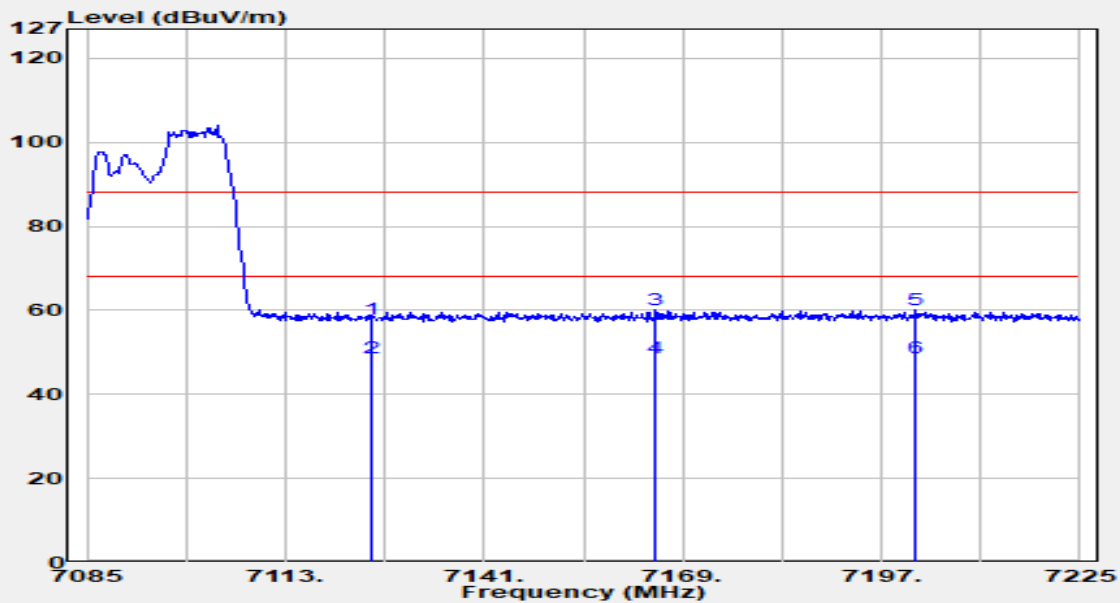
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7125.000	Peak	51.37	7.07	58.44	88.20	-29.76
7125.000	Average	41.51	7.07	48.58	68.20	-19.62
7167.180	Peak	52.56	7.38	59.94	88.20	-28.26
7167.180	Average	41.44	7.38	48.82	68.20	-19.38
7206.100	Peak	53.16	7.31	60.48	88.20	-27.72
7206.100	Average	41.43	7.31	48.74	68.20	-19.46

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax20 RU 106/54
 Test Frequency :7095 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



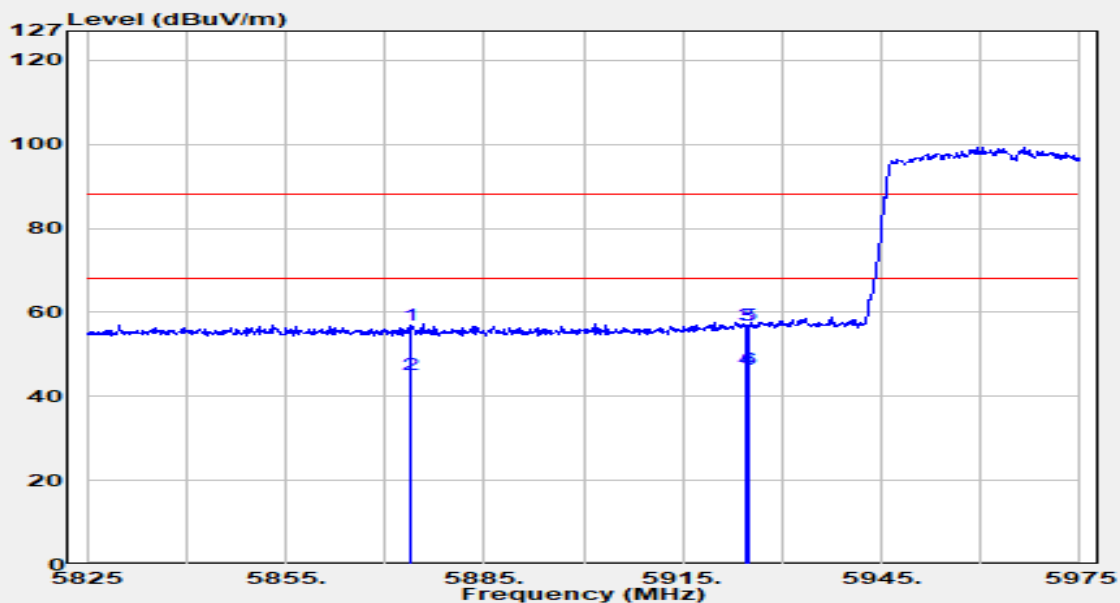
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7125.000	Peak	50.94	7.07	58.01	88.20	-30.19
7125.000	Average	41.50	7.07	48.57	68.20	-19.63
7165.220	Peak	52.74	7.38	60.12	88.20	-28.08
7165.220	Average	41.36	7.38	48.74	68.20	-19.46
7201.900	Peak	52.69	7.38	60.06	88.20	-28.14
7201.900	Average	41.45	7.38	48.83	68.20	-19.37

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax40 RU Full
 Test Frequency :5965 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



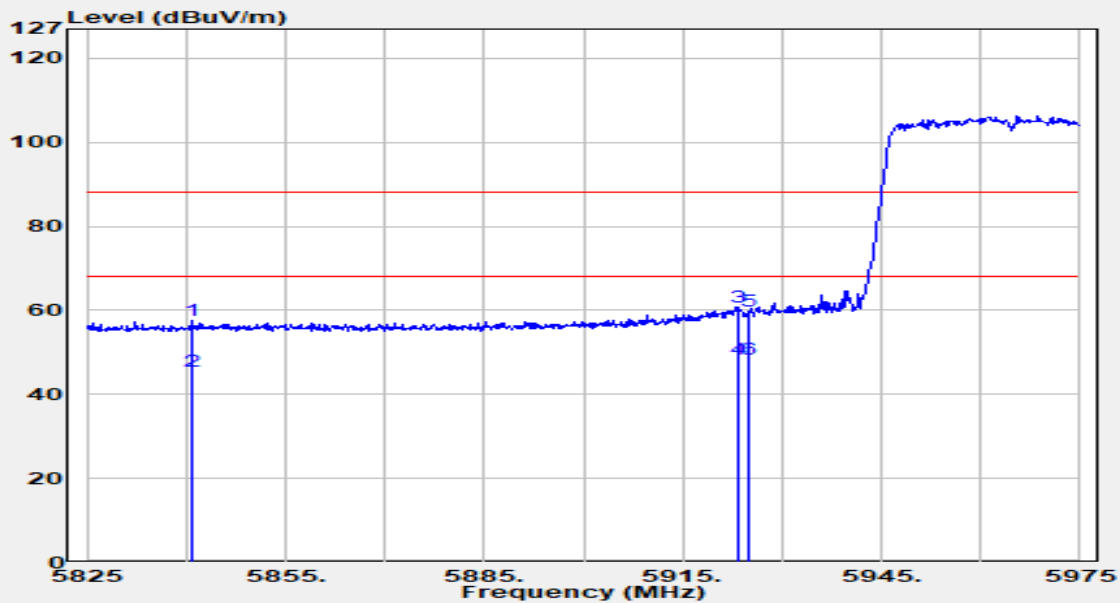
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5873.900	Peak	53.43	3.70	57.13	88.20	-31.07
5873.900	Average	41.58	3.70	45.28	68.20	-22.92
5924.400	Peak	53.20	3.62	56.82	88.20	-31.38
5924.400	Average	42.84	3.62	46.46	68.20	-21.74
5925.000	Peak	53.28	3.61	56.90	88.20	-31.30
5925.000	Average	42.81	3.61	46.42	68.20	-21.78

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax40 RU Full
 Test Frequency :5965 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



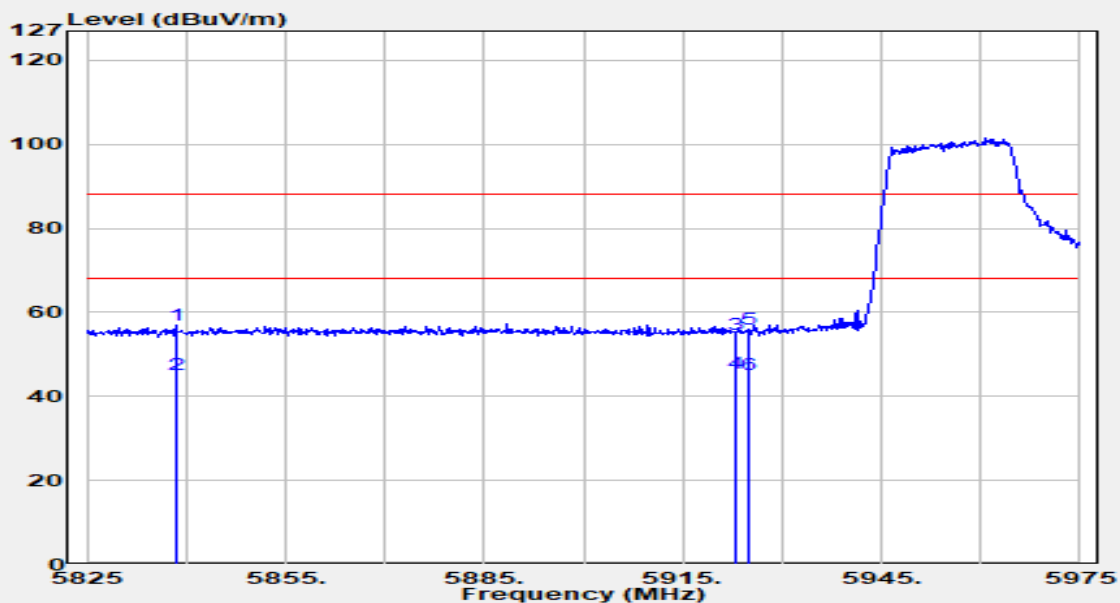
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5840.750	Peak	54.14	3.58	57.73	88.20	-30.47
5840.750	Average	41.86	3.58	45.44	68.20	-22.76
5923.250	Peak	57.24	3.62	60.86	88.20	-27.34
5923.250	Average	44.60	3.62	48.22	68.20	-19.98
5925.000	Peak	56.32	3.61	59.94	88.20	-28.26
5925.000	Average	44.90	3.61	48.51	68.20	-19.69

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax40 RU 242/61
 Test Frequency :5965 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



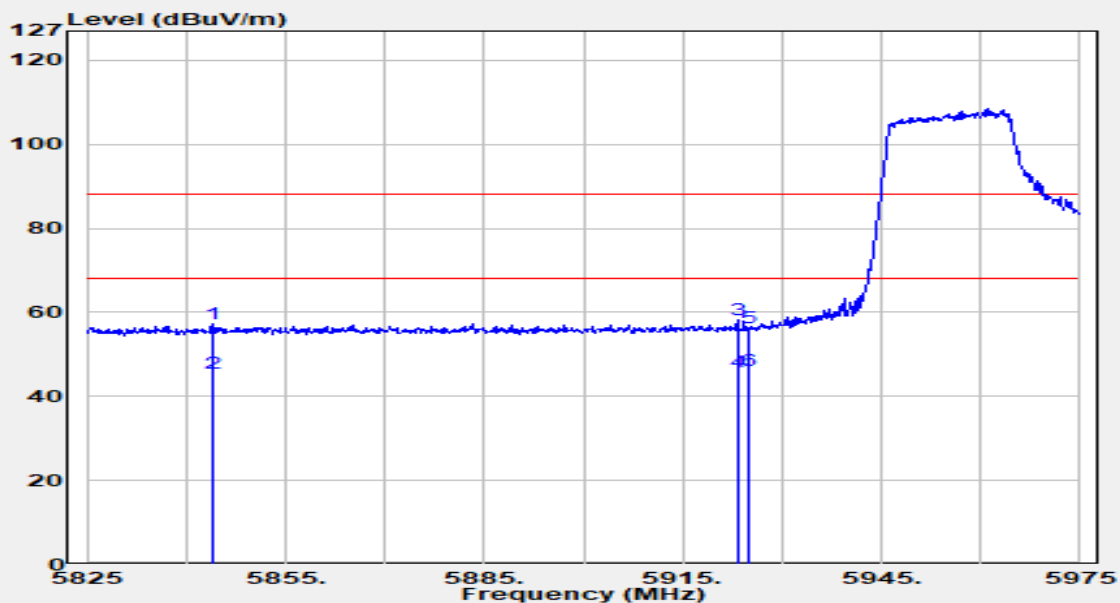
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5838.350	Peak	53.33	3.56	56.88	88.20	-31.32
5838.350	Average	41.75	3.56	45.31	68.20	-22.89
5923.050	Peak	51.06	3.62	54.68	88.20	-33.52
5923.050	Average	41.77	3.62	45.39	68.20	-22.81
5925.000	Peak	52.27	3.61	55.89	88.20	-32.31
5925.000	Average	41.73	3.61	45.34	68.20	-22.86

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax40 RU 242/61
 Test Frequency :5965 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5844.200	Peak	53.60	3.62	57.22	88.20	-30.98
5844.200	Average	41.81	3.62	45.43	68.20	-22.77
5923.400	Peak	54.65	3.62	58.28	88.20	-29.92
5923.400	Average	42.37	3.62	45.99	68.20	-22.21
5925.000	Peak	52.58	3.61	56.20	88.20	-32.00
5925.000	Average	42.44	3.61	46.05	68.20	-22.15

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台灣檢驗科技股份有限公司

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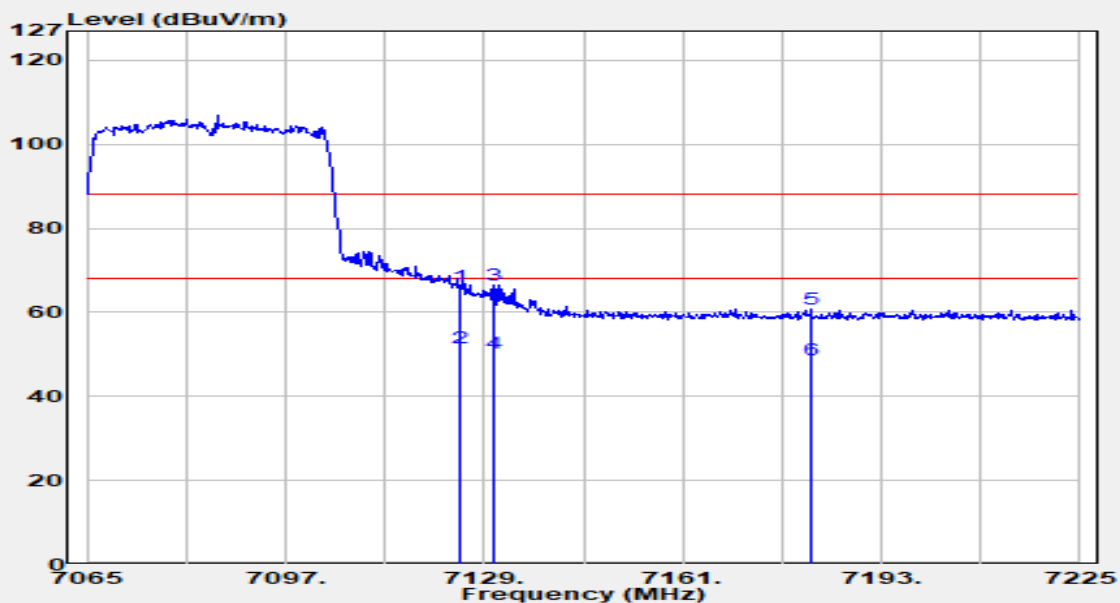
f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2211002261ER
 Operation Mode :802.11ax40 RU Full
 Test Frequency :7085 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



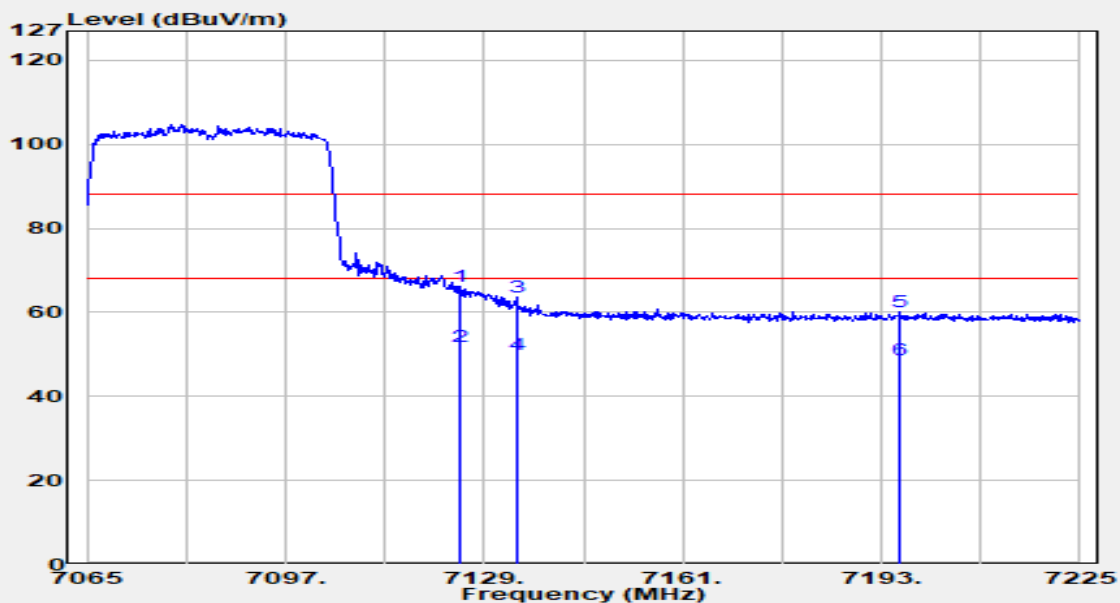
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	59.06	7.07	66.13	88.20	-22.07
7125.000	Average	44.54	7.07	51.61	68.20	-16.59
7130.600	Peak	59.28	7.14	66.42	88.20	-21.78
7130.600	Average	43.18	7.14	50.32	68.20	-17.88
7181.640	Peak	53.26	7.40	60.66	88.20	-27.54
7181.640	Average	41.27	7.40	48.67	68.20	-19.53

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax40 RU Full
 Test Frequency :7085 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



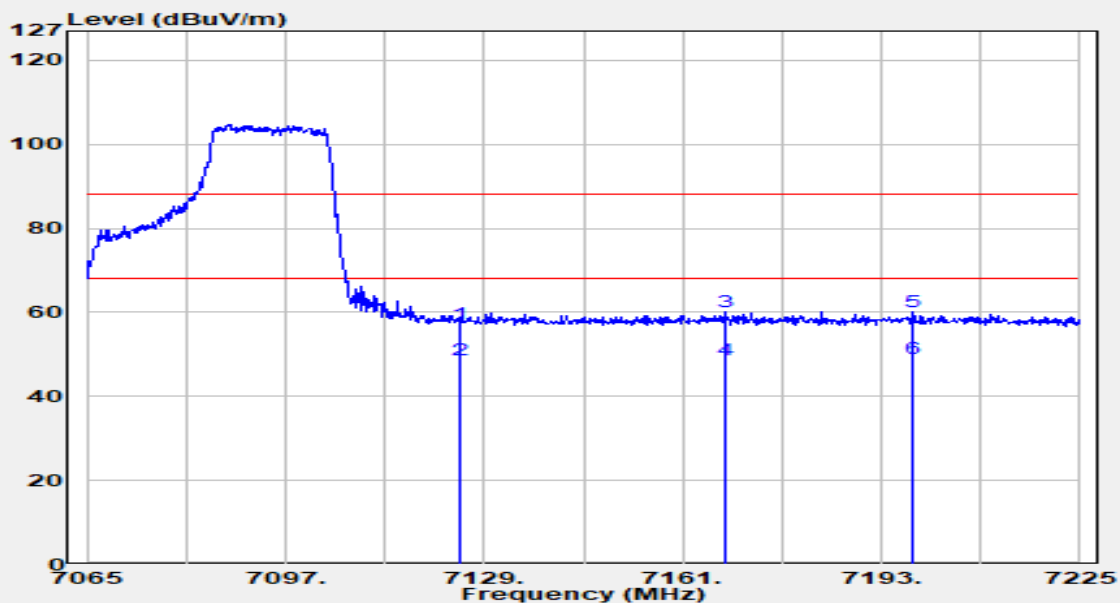
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
7125.000	Peak	59.27	7.07	66.34	88.20	-21.86
7125.000	Average	44.87	7.07	51.94	68.20	-16.26
7134.280	Peak	56.39	7.18	63.57	88.20	-24.63
7134.280	Average	42.67	7.18	49.85	68.20	-18.35
7195.880	Peak	52.72	7.41	60.13	88.20	-28.07
7195.880	Average	41.32	7.41	48.73	68.20	-19.47

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax40 RU 242/62
 Test Frequency :7085 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



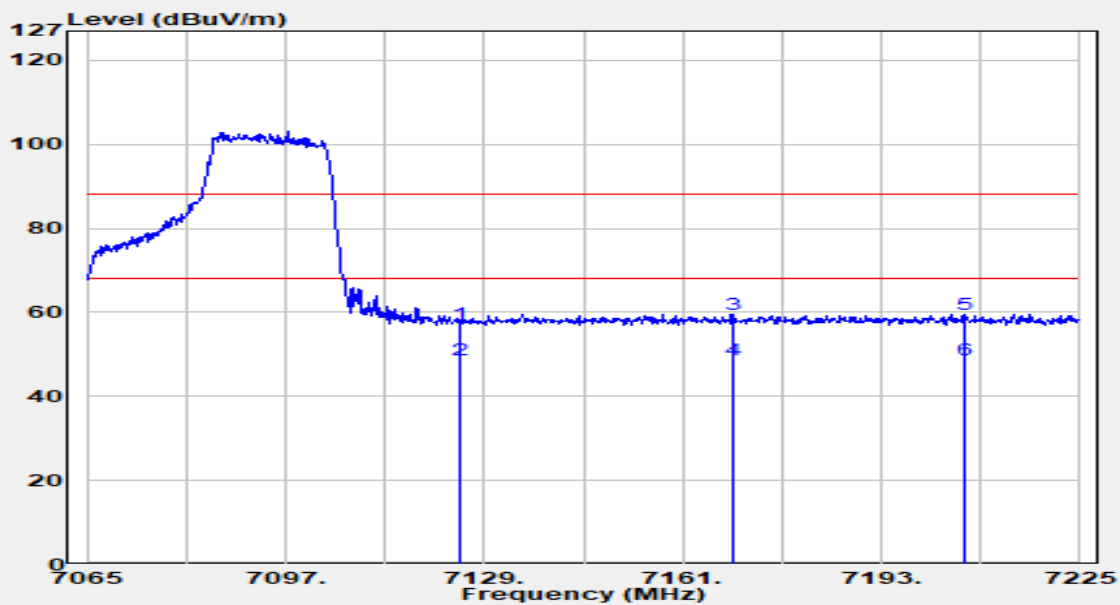
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7125.000	Peak	50.13	7.07	57.20	88.20	-31.00
7125.000	Average	41.66	7.07	48.73	68.20	-19.47
7168.040	Peak	52.88	7.38	60.27	88.20	-27.93
7168.040	Average	41.45	7.38	48.83	68.20	-19.37
7198.120	Peak	52.89	7.41	60.30	88.20	-27.90
7198.120	Average	41.45	7.41	48.86	68.20	-19.34

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax40 RU 242/62
 Test Frequency :7085 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



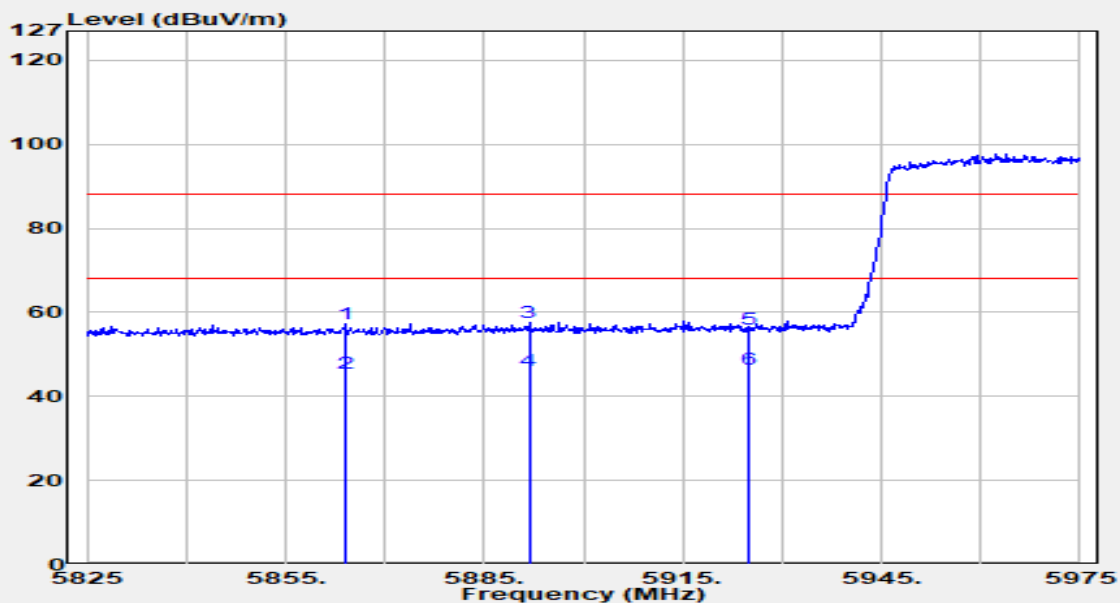
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7125.000	Peak	50.14	7.07	57.21	88.20	-30.99
7125.000	Average	41.54	7.07	48.61	68.20	-19.59
7169.160	Peak	52.27	7.39	59.65	88.20	-28.55
7169.160	Average	41.41	7.39	48.80	68.20	-19.40
7206.600	Peak	52.32	7.31	59.63	88.20	-28.57
7206.600	Average	41.42	7.31	48.73	68.20	-19.47

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax80 RU Full
 Test Frequency :5985 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5864.150	Peak	53.52	3.69	57.21	88.20	-30.99
5864.150	Average	41.98	3.69	45.67	68.20	-22.53
5891.750	Peak	53.93	3.72	57.65	88.20	-30.55
5891.750	Average	42.30	3.72	46.02	68.20	-22.18
5925.000	Peak	52.34	3.61	55.96	88.20	-32.24
5925.000	Average	42.70	3.61	46.31	68.20	-21.89

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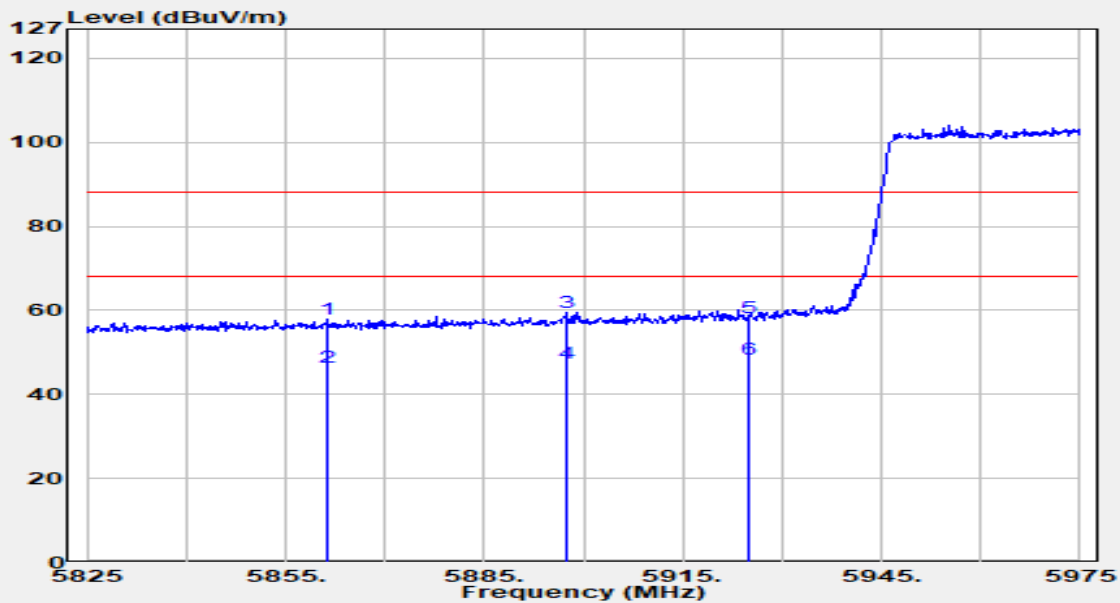
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Report Number :TERF2211002261ER
 Operation Mode :802.11ax80 RU Full
 Test Frequency :5985 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



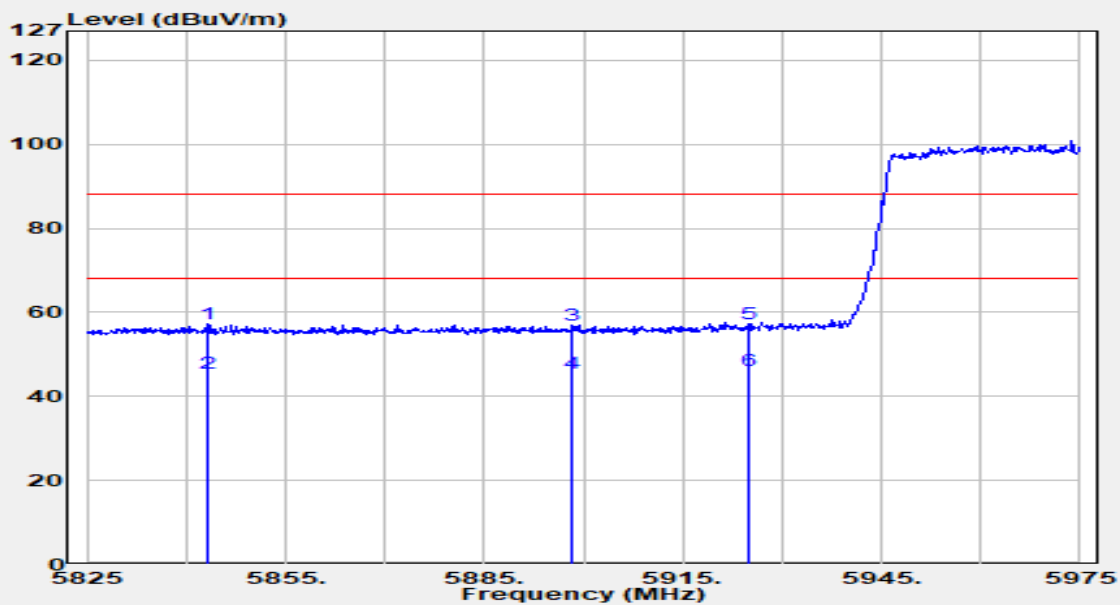
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5861.450	Peak	54.16	3.69	57.85	88.20	-30.35
5861.450	Average	42.81	3.69	46.50	68.20	-21.70
5897.600	Peak	55.76	3.73	59.49	88.20	-28.71
5897.600	Average	43.75	3.73	47.48	68.20	-20.72
5925.000	Peak	54.52	3.61	58.14	88.20	-30.06
5925.000	Average	44.63	3.61	48.24	68.20	-19.96

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax80 RU 484/65
 Test Frequency :5985 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



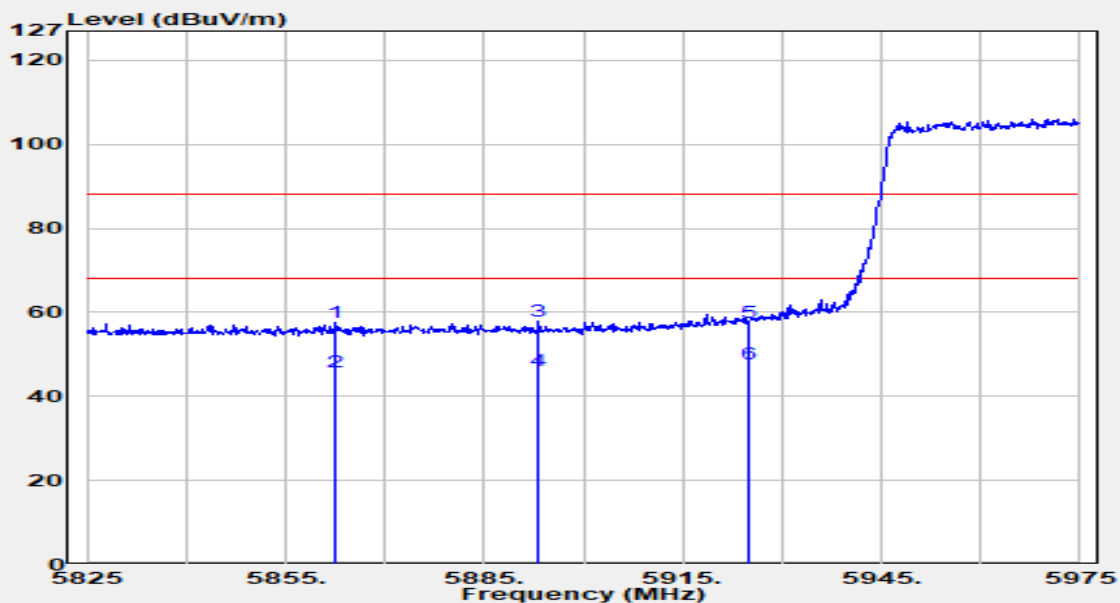
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5843.150	Peak	53.74	3.61	57.35	88.20	-30.85
5843.150	Average	41.90	3.61	45.50	68.20	-22.70
5898.200	Peak	53.15	3.73	56.88	88.20	-31.32
5898.200	Average	41.87	3.73	45.60	68.20	-22.60
5925.000	Peak	53.76	3.61	57.37	88.20	-30.83
5925.000	Average	42.47	3.61	46.08	68.20	-22.12

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax80 RU 484/65
 Test Frequency :5985 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



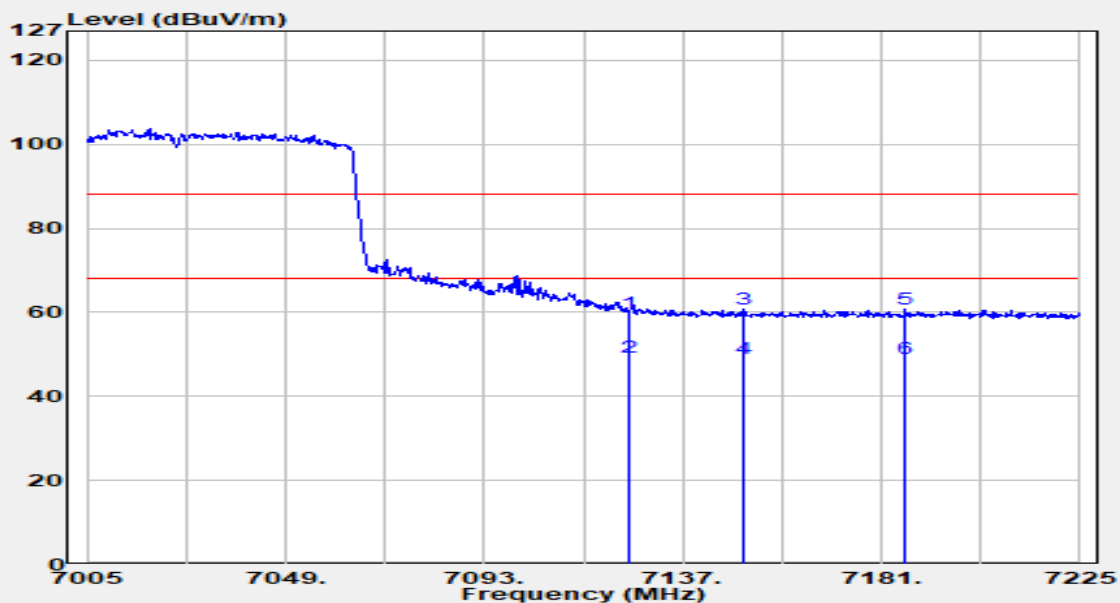
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5862.500	Peak	53.78	3.69	57.47	88.20	-30.73
5862.500	Average	42.17	3.69	45.86	68.20	-22.34
5893.250	Peak	54.16	3.72	57.88	88.20	-30.32
5893.250	Average	42.41	3.72	46.13	68.20	-22.07
5925.000	Peak	54.00	3.61	57.61	88.20	-30.59
5925.000	Average	44.27	3.61	47.88	68.20	-20.32

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax80 RU Full
 Test Frequency :7025 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



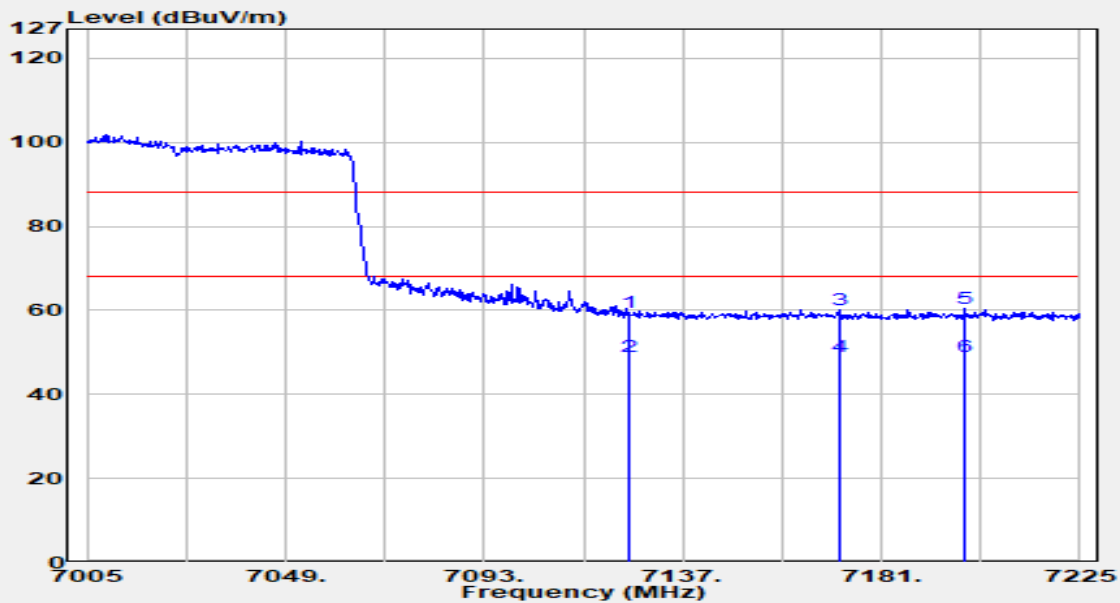
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7125.000	Peak	52.85	7.07	59.92	88.20	-28.28
7125.000	Average	42.26	7.07	49.33	68.20	-18.87
7150.640	Peak	53.36	7.37	60.73	88.20	-27.47
7150.640	Average	41.54	7.37	48.91	68.20	-19.29
7186.280	Peak	53.37	7.40	60.77	88.20	-27.43
7186.280	Average	41.50	7.40	48.90	68.20	-19.30

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax80 RU Full
 Test Frequency :7025 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



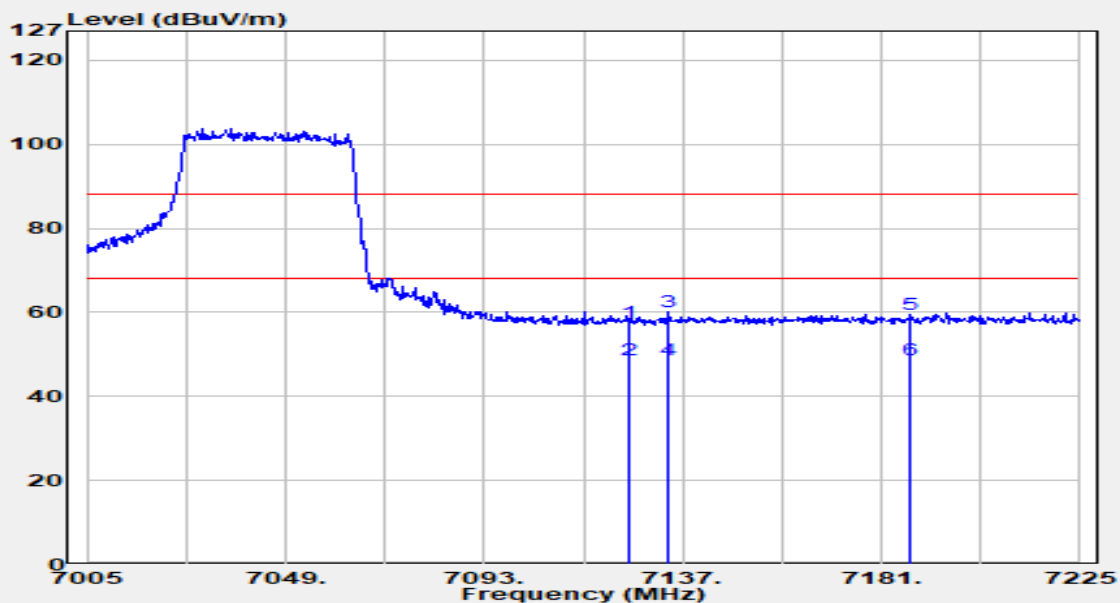
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7125.000	Peak	52.43	7.07	59.50	88.20	-28.70
7125.000	Average	41.95	7.07	49.02	68.20	-19.18
7171.540	Peak	52.77	7.39	60.16	88.20	-28.04
7171.540	Average	41.49	7.39	48.88	68.20	-19.32
7199.700	Peak	52.98	7.41	60.39	88.20	-27.81
7199.700	Average	41.53	7.41	48.94	68.20	-19.26

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Report Number :TERF2211002261ER
 Operation Mode :802.11ax80 RU 484/66
 Test Frequency :7025 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7125.000	Peak	50.66	7.07	57.73	88.20	-30.47
7125.000	Average	41.51	7.07	48.58	68.20	-19.62
7133.480	Peak	53.01	7.17	60.18	88.20	-28.02
7133.480	Average	41.48	7.17	48.65	68.20	-19.55
7187.600	Peak	52.25	7.40	59.65	88.20	-28.55
7187.600	Average	41.38	7.40	48.78	68.20	-19.42

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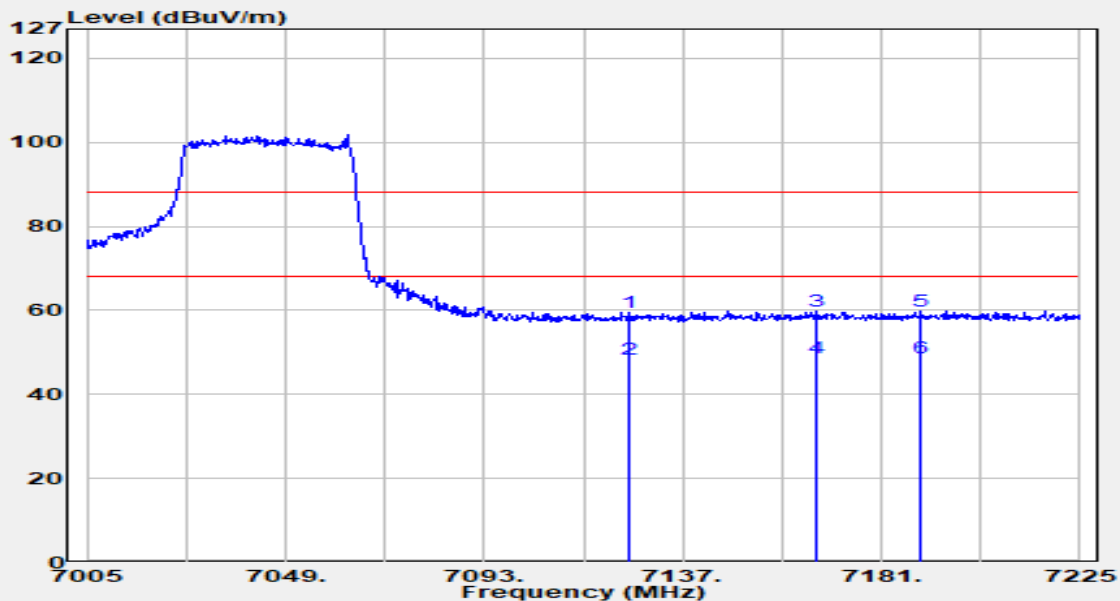
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Report Number :TERF2211002261ER
 Operation Mode :802.11ax80 RU 484/66
 Test Frequency :7025 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-02-16
 Temp./Humi. :23.9/63
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7125.000	Peak	52.40	7.07	59.47	88.20	-28.73
7125.000	Average	41.43	7.07	48.50	68.20	-19.70
7166.480	Peak	52.43	7.38	59.81	88.20	-28.39
7166.480	Average	41.27	7.38	48.65	68.20	-19.55
7189.800	Peak	52.32	7.40	59.72	88.20	-28.48
7189.800	Average	41.30	7.40	48.70	68.20	-19.50

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13 CONTENTION BASED PROTOCOL

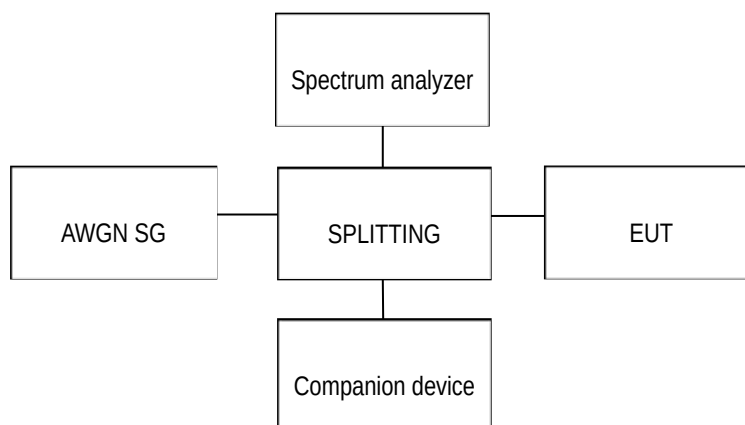
13.1 Standard Applicable

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty

13.2 Test Setup



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13.3 Measurement Procedure

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency.
The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer, Ensure that the attenuator provides enough attenuation to not overload the signal analyzer receiver.
4. Using an AWGN signal source a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
5. Set the AWGN signal power to an extremely low level (more than 20 dB below -62 dBm threshold). Connect the AWGN signal source, via splitter, to the signal analyzer and the EUT
6. Monitor the signal analyzer to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting
7. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
8. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 4, choose a different center frequency for the AWGN signal and repeat the process(as figure1)

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Table 1. Criteria to determine number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

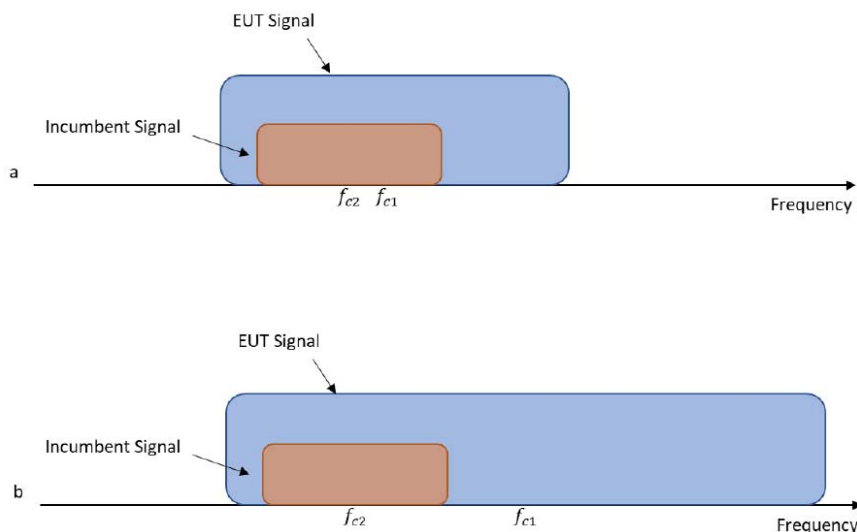


Figure 1. Two possible scenarios where a) center frequency of EUT transmission falls within incumbent's bandwidth, or b) outside of it

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13.4 Measurement Result

13.4.1 CBP Detection

Slave

Contention Based Protocol																
Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected AWGN (dBm)	Detection Trials (1=Detection, 0= No Detection)										Detection Probability (%)	Limit (%)
					1	2	3	4	5	6	7	8	9	10		
802.11ax HE20	5	6135	6135	-73.33	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax HE80	5	6145	6110	-70.01	1	1	1	1	1	1	1	1	1	1	100	90
			6145	-72.15	1	1	1	1	1	1	1	1	0	1	90	90
			6180	-70.20	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax HE20	6	6455	6455	-70.14	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax HE80	6	6465	6430	-70.11	1	1	1	1	1	1	1	1	1	1	100	90
			6465	-67.14	1	1	1	1	1	1	1	1	1	1	100	90
			6500	-67.17	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax HE20	7	6695	6695	-76.03	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax HE80	7	6705	6670	-73.20	1	1	1	1	1	1	1	1	1	1	100	90
			6705	-73.20	1	1	1	1	1	1	1	1	1	1	100	90
			6740	-74.16	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax HE20	8	7015	7015	-77.12	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax HE80	8	7025	6990	-76.23	1	1	1	1	1	1	1	1	1	1	100	90
			7025	-76.02	1	1	1	1	1	1	1	1	1	1	100	90
			7060	-73.27	1	1	1	1	1	1	1	1	1	1	100	90

Note : Detection Level of AWGN Interference :-62+min Gain

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Contention Based Protocol																
Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected AWGN (dBm)	Detection Trials (1=Detection, 0= No Detection)										Detection Probability (%)	Limit (%)
					1	2	3	4	5	6	7	8	9	10		
802.11ax HE20	5	6135	6135	-63.07	1	1	1	1	1	1	1	1	1	0	90	90
802.11ax HE80	5	6145	6110	-72.19	1	1	1	1	1	1	1	1	1	1	100	90
			6145	-63.06	1	1	1	1	1	1	1	1	0	1	90	90
			6180	-70.23	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax HE20	6	6455	6455	-63.12	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax HE80	6	6465	6430	-70.18	1	1	1	1	1	1	1	1	1	1	100	90
			6465	-64.35	1	1	1	1	0	1	1	1	1	1	90	90
			6500	-69.16	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax HE20	7	6695	6695	-66.12	1	1	1	1	1	1	0	1	1	1	90	90
802.11ax HE80	7	6705	6670	-75.15	1	1	1	1	1	1	1	1	1	1	100	90
			6705	-65.20	1	1	1	1	1	1	1	1	0	1	90	90
			6740	-73.23	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax HE20	8	7015	7015	-67.02	1	1	1	1	1	0	1	1	1	1	90	90
802.11ax HE80	8	7025	6990	-74.10	1	1	1	1	1	1	1	1	1	1	100	90
			7025	-65.22	1	1	1	1	1	1	1	1	1	1	100	90
			7060	-74.11	1	1	1	1	1	1	1	1	1	1	100	90

Note : Detection Level of AWGN Interference :-62+min Gain

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13.4.2 CBP_Threshold_Level

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Contention Based Protocol Threshold Level Verify								
Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected AWGN (dBm)	Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11ax HE20	5	6135	6135	-70.83	2.50	-73.33	-62	Ceased
			6135	-71.83	2.50	-74.33	-62	Minimal
			6135	-73.83	2.50	-76.33	-62	Normal
802.11ax HE80	5	6145	6110	-67.51	2.50	-70.01	-62	Ceased
			6110	-70.51	2.50	-73.01	-62	Minimal
			6110	-73.51	2.50	-76.01	-62	Normal
			6145	-70.65	2.50	-73.15	-62	Ceased
			6145	-71.15	2.50	-73.65	-62	Minimal
			6145	-73.65	2.50	-76.15	-62	Normal
			6180	-67.7	2.50	-70.20	-62	Ceased
			6180	-69.7	2.50	-72.20	-62	Minimal
			6180	-70.7	2.50	-73.20	-62	Normal
Contention Based Protocol Threshold Level Verify								
Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected AWGN (dBm)	Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11ax HE20	6	6455	6455	-67.64	2.50	-70.14	-62	Ceased
			6455	-68.64	2.50	-71.14	-62	Minimal
			6455	-70.64	2.50	-73.14	-62	Normal
802.11ax HE80	6	6465	6430	-67.61	2.50	-70.11	-62	Ceased
			6430	-68.61	2.50	-71.11	-62	Minimal
			6430	-70.61	2.50	-73.11	-62	Normal
			6465	-64.64	2.50	-67.14	-62	Ceased
			6465	-67.64	2.50	-70.14	-62	Minimal
			6465	-70.64	2.50	-73.14	-62	Normal
			6500	-64.67	2.50	-67.17	-62	Ceased
			6500	-67.67	2.50	-70.17	-62	Minimal
			6500	-70.67	2.50	-73.17	-62	Normal

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Contention Based Protocol Threshold Level Verify								
Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected AWGN (dBm)	Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11ax HE20	7	6695	6695	-74.53	2.50	-77.03	-62	Ceased
			6695	-74.74	2.50	-77.24	-62	Minimal
			6695	-76.53	2.50	-79.03	-62	Normal
802.11ax HE80	7	6705	6670	-70.7	2.50	-73.20	-62	Ceased
			6670	-73.7	2.50	-76.20	-62	Minimal
			6670	-76.7	2.50	-79.20	-62	Normal
			6705	-70.7	2.50	-73.20	-62	Ceased
			6705	-73.7	2.50	-76.20	-62	Minimal
			6705	-76.7	2.50	-79.20	-62	Normal
			6740	-71.66	2.50	-74.16	-62	Ceased
			6740	-72.66	2.50	-75.16	-62	Minimal
			6740	-73.66	2.50	-76.16	-62	Normal
Contention Based Protocol Threshold Level Verify								
Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected AWGN (dBm)	Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11ax HE20	8	7015	7015	-75.62	2.50	-78.12	-62	Ceased
			7015	-76.12	2.50	-78.62	-62	Minimal
			7015	-76.62	2.50	-79.12	-62	Normal
802.11ax HE80	8	7025	6990	-73.73	2.50	-76.23	-62	Ceased
			6990	-74.73	2.50	-77.23	-62	Minimal
			6990	-76.73	2.50	-79.23	-62	Normal
			7025	-73.52	2.50	-76.02	-62	Ceased
			7025	-74.52	2.50	-77.02	-62	Minimal
			7025	-76.52	2.50	-79.02	-62	Normal
			7060	-70.77	2.50	-73.27	-62	Ceased
			7060	-73.77	2.50	-76.27	-62	Minimal
			7060	-76.77	2.50	-79.27	-62	Normal

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Contention Based Protocol Threshold Level Verify								
Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected AWGN (dBm)	Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11ax HE20	5	6135	6135	-62.57	2.50	-65.07	-62	Ceased
			6135	-69.57	2.50	-72.07	-62	Minimal
			6135	-72.57	2.50	-75.07	-62	Normal
802.11ax HE80	5	6145	6110	-69.69	2.50	-72.19	-62	Ceased
			6110	-70.19	2.50	-72.69	-62	Minimal
			6110	-70.69	2.50	-73.19	-62	Normal
			6145	-60.56	2.50	-63.06	-62	Ceased
			6145	-70.56	2.50	-73.06	-62	Minimal
			6145	-73.56	2.50	-76.06	-62	Normal
			6180	-68.73	2.50	-71.23	-62	Ceased
			6180	-69.23	2.50	-71.73	-62	Minimal
			6180	-69.73	2.50	-72.23	-62	Normal
Contention Based Protocol Threshold Level Verify								
Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected AWGN (dBm)	Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11ax HE20	6	6455	6455	-62.62	2.50	-65.12	-62	Ceased
			6455	-67.62	2.50	-70.12	-62	Minimal
			6455	-70.62	2.50	-73.12	-62	Normal
802.11ax HE80	6	6465	6430	-67.68	2.50	-70.18	-62	Ceased
			6430	-68.18	2.50	-70.68	-62	Minimal
			6430	-68.68	2.50	-71.18	-62	Normal
			6465	-63.85	2.50	-66.35	-62	Ceased
			6465	-67.85	2.50	-70.35	-62	Minimal
			6465	-70.85	2.50	-73.35	-62	Normal
			6500	-66.66	2.50	-69.16	-62	Ceased
			6500	-67.16	2.50	-69.66	-62	Minimal
			6500	-67.66	2.50	-70.16	-62	Normal

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Contention Based Protocol Threshold Level Verify								
Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected AWGN (dBm)	Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11ax HE20	7	6695	6695	-64.62	2.50	-67.12	-62	Ceased
			6695	-73.62	2.50	-76.12	-62	Minimal
			6695	-76.62	2.50	-79.12	-62	Normal
802.11ax HE80	7	6705	6670	-72.65	2.50	-75.15	-62	Ceased
			6670	-73.15	2.50	-75.65	-62	Minimal
			6670	-73.65	2.50	-76.15	-62	Normal
			6705	-63.7	2.50	-66.20	-62	Ceased
			6705	-71.7	2.50	-74.20	-62	Minimal
			6705	-74.7	2.50	-77.20	-62	Normal
			6740	-71.73	2.50	-74.23	-62	Ceased
			6740	-72.23	2.50	-74.73	-62	Minimal
			6740	-74.73	2.50	-77.23	-62	Normal

Contention Based Protocol Threshold Level Verify								
Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected AWGN (dBm)	Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11ax HE20	8	7015	7015	-67.52	2.50	-70.02	-62	Ceased
			7015	-73.52	2.50	-76.02	-62	Minimal
			7015	-76.52	2.50	-79.02	-62	Normal
802.11ax HE80	8	7025	6990	-71.6	2.50	-74.10	-62	Ceased
			6990	-74.6	2.50	-77.10	-62	Minimal
			6990	-77.6	2.50	-80.10	-62	Normal
			7025	-64.72	2.50	-67.22	-62	Ceased
			7025	-74.72	2.50	-77.22	-62	Minimal
			7025	-77.72	2.50	-80.22	-62	Normal
			7060	-71.61	2.50	-74.11	-62	Ceased
			7060	-72.61	2.50	-75.11	-62	Minimal
			7060	-74.61	2.50	-77.11	-62	Normal

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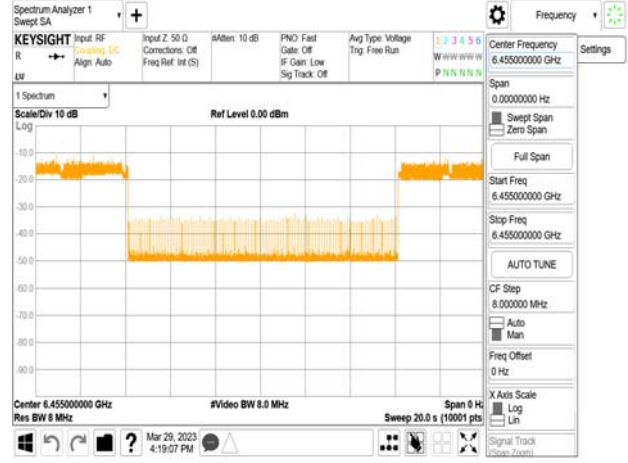
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802.11ax_20MHz_CF 6135MHz_
Interference_6135MHz_-70.83dBm_Ceased



802.11ax_20MHz_CF 6455MHz_
Interference_6455MHz_-67.64dBm_Ceased



802.11ax_20MHz_CF 6135MHz_
Interference_6135MHz_-71.83dBm_Minimal



802.11ax_20MHz_CF 6455MHz_
Interference_6455MHz_-68.64dBm_Minimal



802.11ax_20MHz_CF 6135MHz_
Interference_6135MHz_-73.83dBm_Normal



802.11ax_20MHz_CF 6455MHz_
Interference_6455MHz_-70.64dBm_Normal

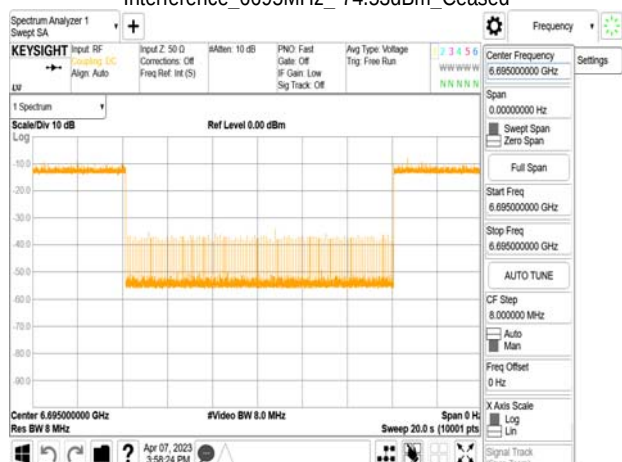


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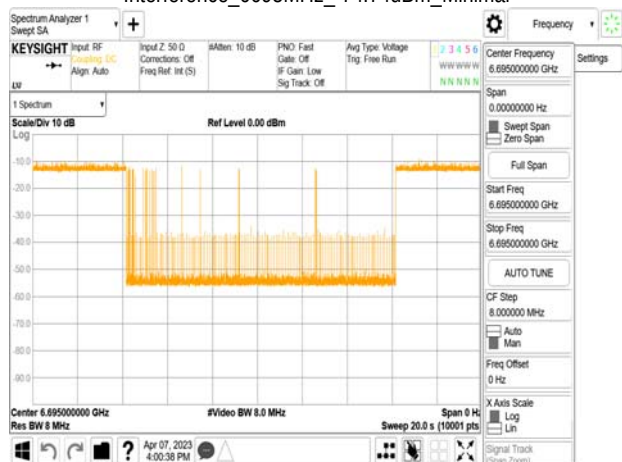
802.11ax_20MHz_CF 6695MHz_
Interference 6695MHz -74.53dBm Ceased



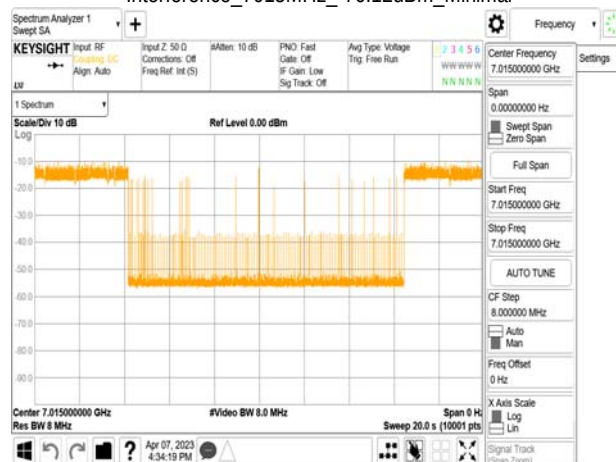
802.11ax_20MHz_CF 7015MHz_
Interference 7015MHz -75.62dBm Ceased



802.11ax_20MHz_CF 6695MHz_
Interference 6695MHz -74.74dBm Minimal



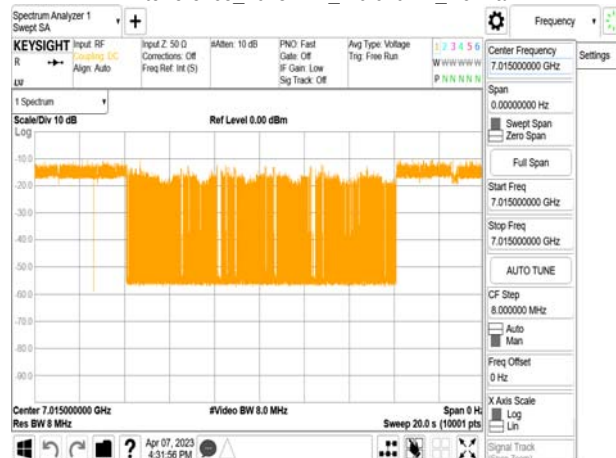
802.11ax_20MHz_CF 7015MHz_
Interference 7015MHz -76.12dBm Minimal



802.11ax_20MHz_CF 6695MHz_
Interference 6695MHz -76.53dBm Normal



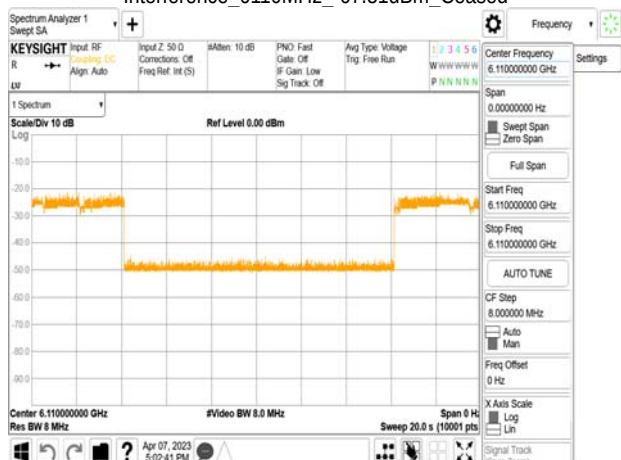
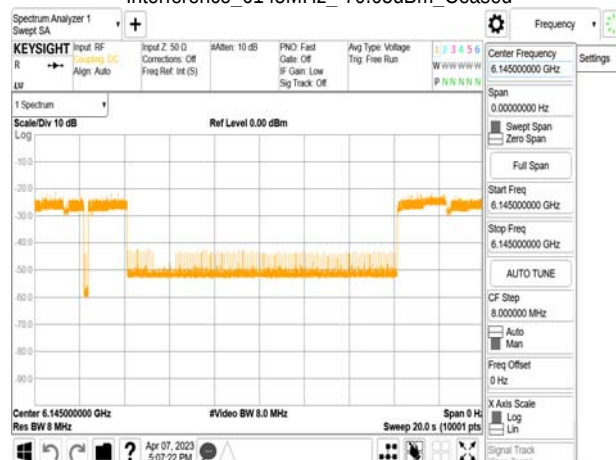
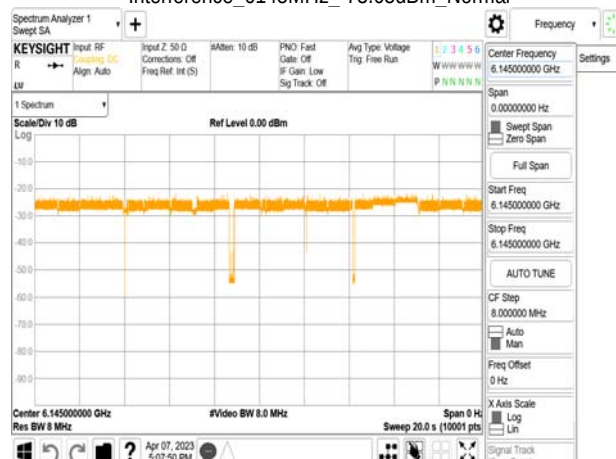
802.11ax_20MHz_CF 7015MHz_
Interference 7015MHz -76.62dBm Normal



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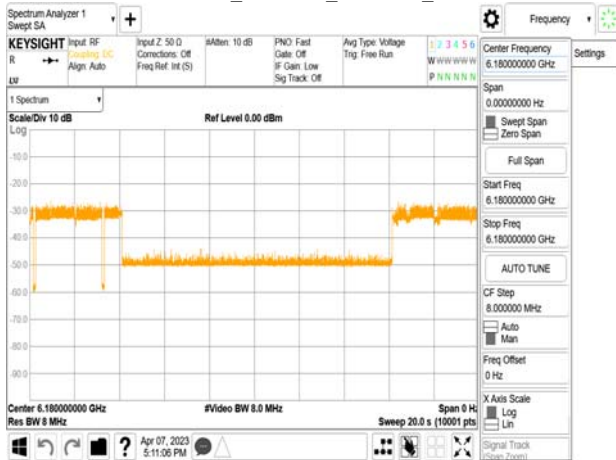
802.11ax_80MHz_CF 6145MHz_
Interference_6110MHz_-67.51dBm_Ceased802.11ax_80MHz_CF 6145MHz_
Interference_6145MHz_-70.65dBm_Ceased802.11ax_80MHz_CF 6145MHz_
Interference_6110MHz_-70.51dBm_Minimal802.11ax_80MHz_CF 6145MHz_
Interference_6145MHz_-71.15dBm_Minimal802.11ax_80MHz_CF 6145MHz_
Interference_6110MHz_-73.51dBm_Normal802.11ax_80MHz_CF 6145MHz_
Interference_6145MHz_-73.65dBm_Normal

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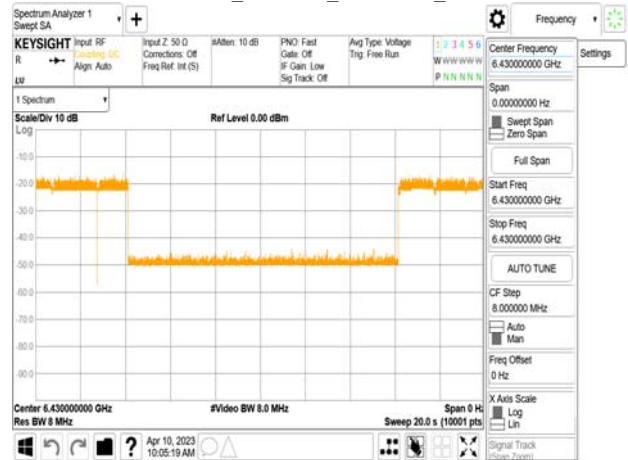
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802.11ax_80MHz_CF 6145MHz_
Interference_6180MHz_-67.7dBm_Ceased



802.11ax_80MHz_CF 6465MHz_
Interference_6430MHz_-67.61dBm_Ceased



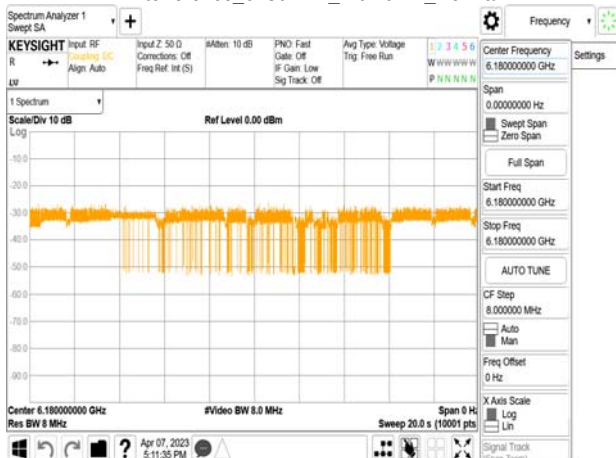
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Interference_6180MHz_-69.7dBm_Minimal



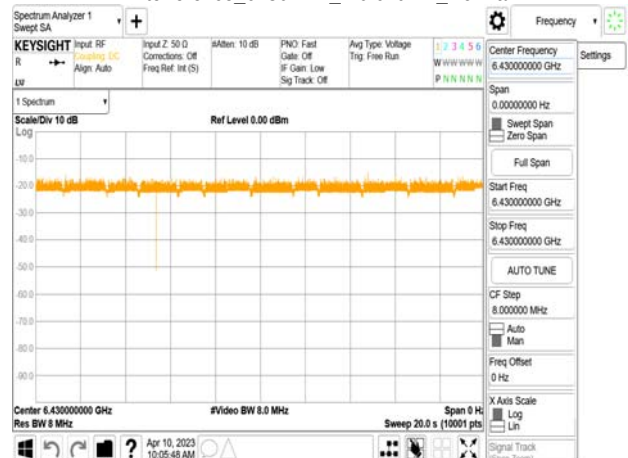
802.11ax_80MHz_CF 6465MHz_
Interference_6430MHz_-68.61dBm_Minimal



802.11ax_80MHz_CF 6145MHz_
Interference_6180MHz_-70.7dBm_Normal



802.11ax_80MHz_CF 6465MHz_
Interference_6430MHz_-70.61dBm_Normal



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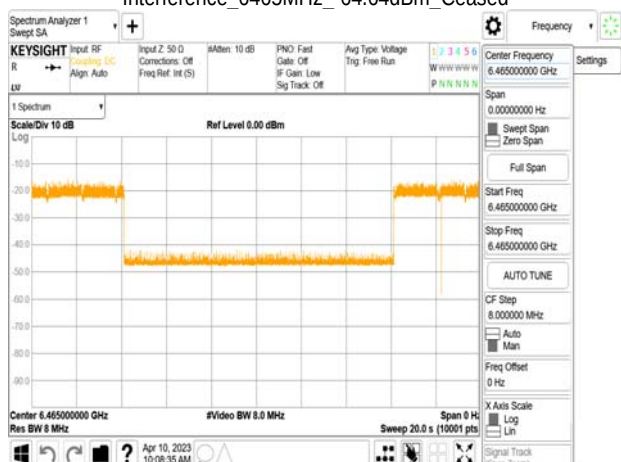
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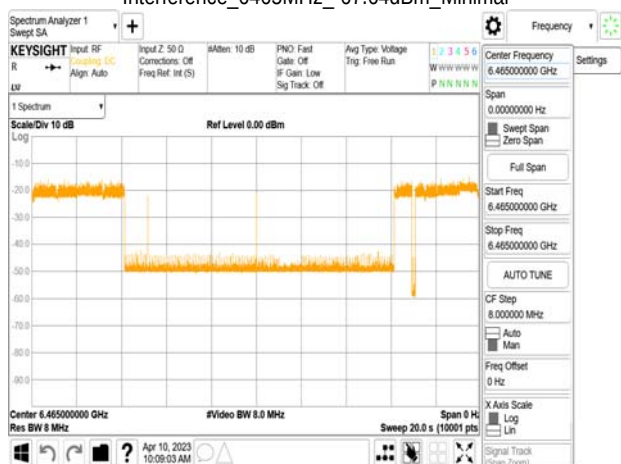
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Interference_6465MHz_-64.64dBm_Ceased



802.11ax_80MHz_CF 6465MHz_
Interference_6500MHz_-64.67dBm_Ceased



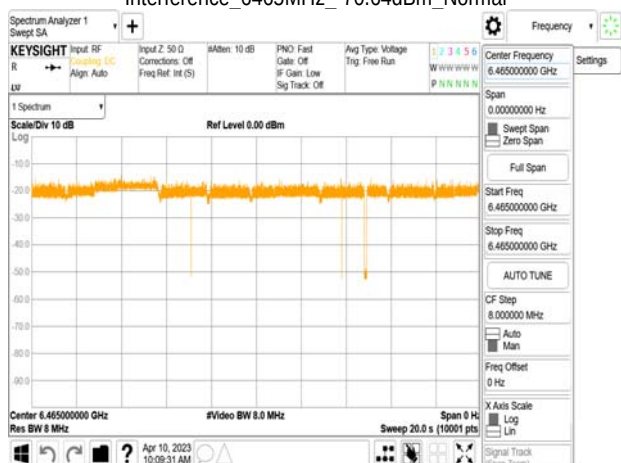
802.11ax_80MHz_CF 6465MHz_
Interference_6465MHz_-67.64dBm_Minimal



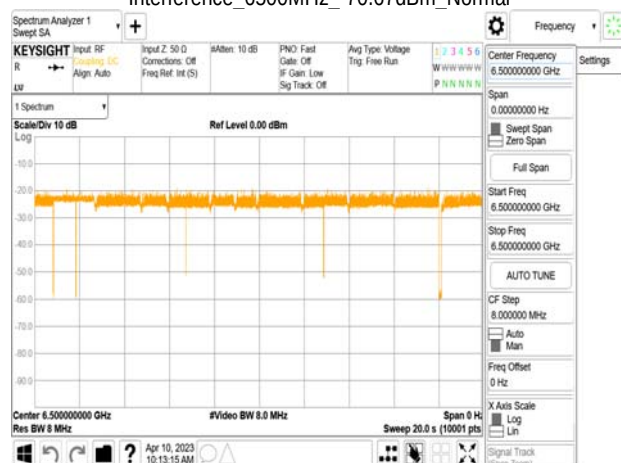
802.11ax_80MHz_CF 6465MHz_
Interference_6500MHz_-67.67dBm_Minimal



802.11ax_80MHz_CF 6465MHz_
Interference_6465MHz_-70.64dBm_Normal



802.11ax_80MHz_CF 6465MHz_
Interference_6500MHz_-70.67dBm_Normal

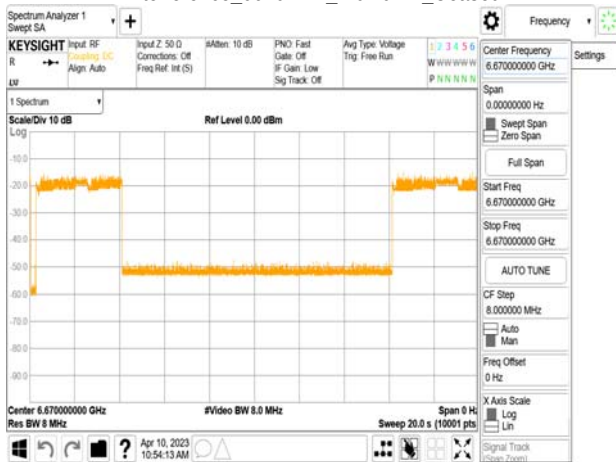


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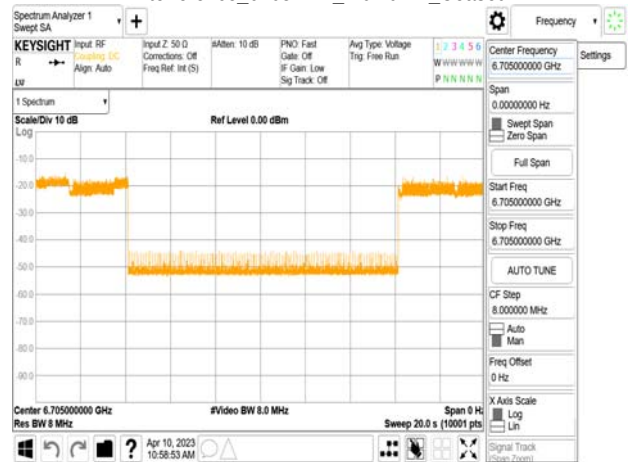
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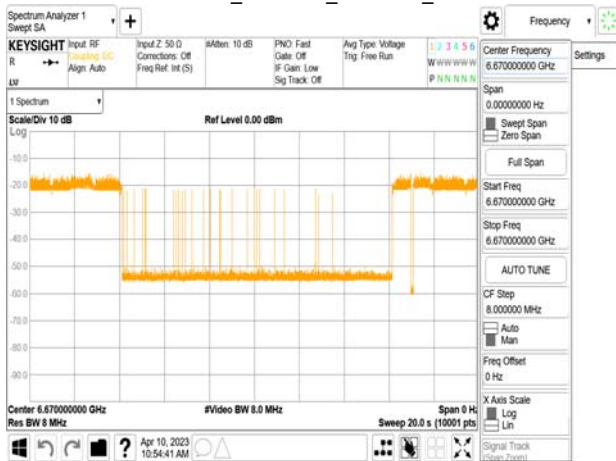
802.11ax_80MHz_CF 6705MHz_
Interference_6670MHz_-70.7dBm_Ceased



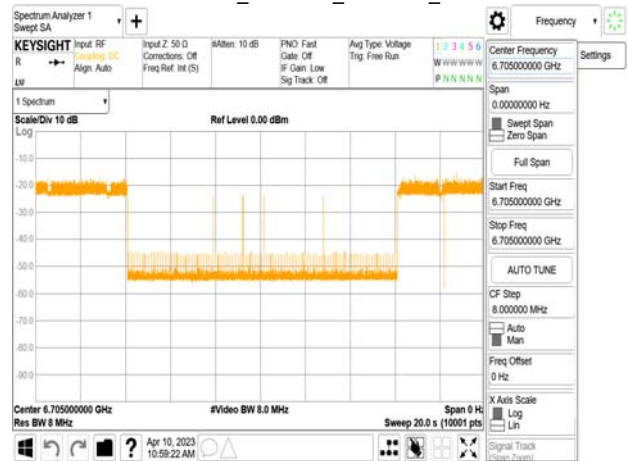
802.11ax_80MHz_CF 6705MHz_
Interference_6705MHz_-70.7dBm_Ceased



802.11ax_80MHz_CF 6705MHz_
Interference_6670MHz_-73.7dBm_Minimal



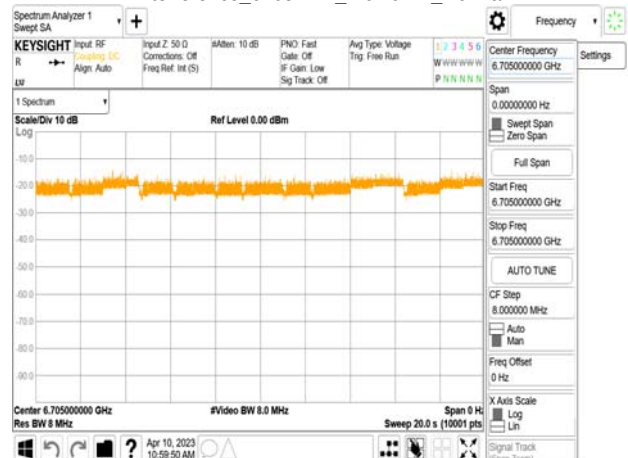
802.11ax_80MHz_CF 6705MHz_
Interference_6705MHz_-73.7dBm_Minimal



802.11ax_80MHz_CF 6705MHz_
Interference_6670MHz_-76.7dBm_Normal



802.11ax_80MHz_CF 6705MHz_
Interference_6705MHz_-76.7dBm_Normal

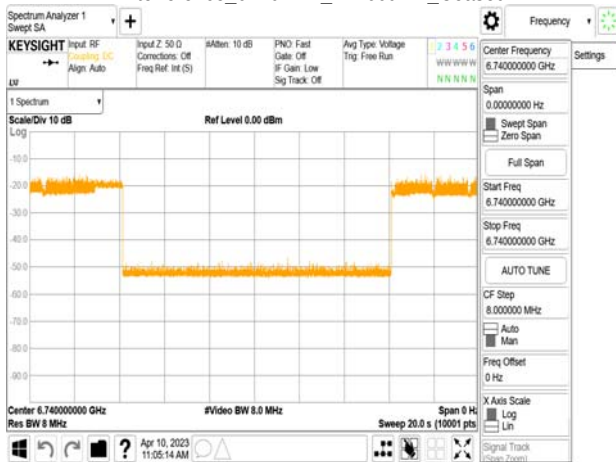


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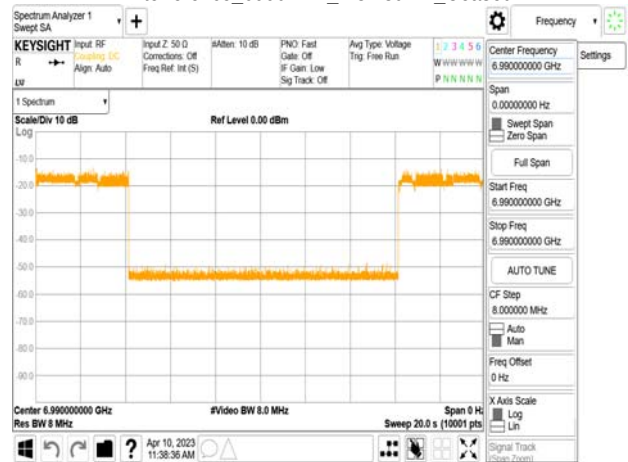
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802.11ax_80MHz_CF 6705MHz_
Interference_6740MHz_-71.66dBm_Ceased



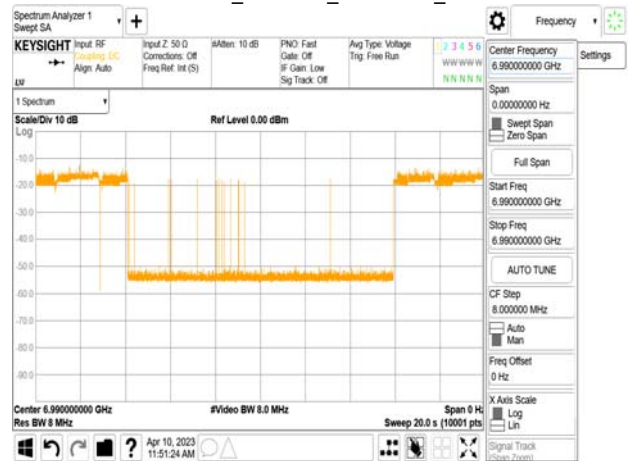
802.11ax_80MHz_CF 7025MHz_
Interference_6990MHz_-73.73dBm_Ceased



802.11ax_80MHz_CF 6705MHz_
Interference_6740MHz_-72.66dBm_Minimal



802.11ax_80MHz_CF 7025MHz_
Interference_6990MHz_-74.73dBm_Minimal



802.11ax_80MHz_CF 6705MHz_
Interference_6740MHz_-73.66dBm_Normal



802.11ax_80MHz_CF 7025MHz_
Interference_6990MHz_-76.73dBm_Normal

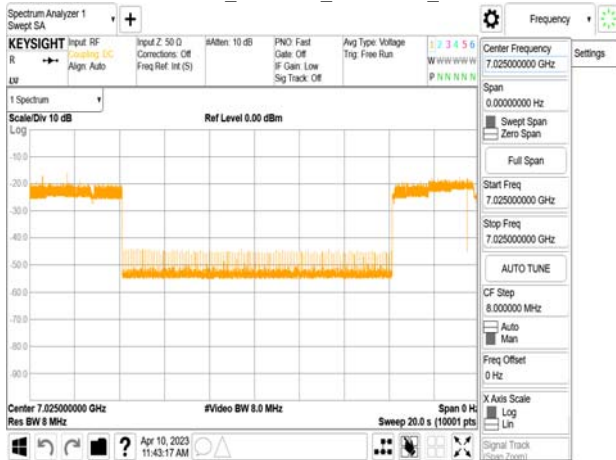


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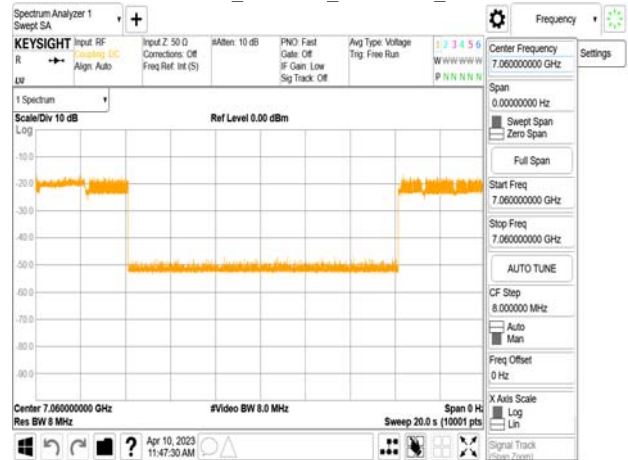
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802.11ax_80MHz_CF 7025MHz_
Interference_7025MHz_-73.52dBm_Ceased



802.11ax_80MHz_CF 7025MHz_
Interference_7060MHz_-70.77dBm_Ceased



802.11ax_80MHz_CF 7025MHz_
Interference_7025MHz_-74.52dBm_Minimal



802.11ax_80MHz_CF 7025MHz_
Interference_7060MHz_-73.77dBm_Minimal



802.11ax_80MHz_CF 7025MHz_
Interference_7025MHz_-76.52dBm_Normal



802.11ax_80MHz_CF 7025MHz_
Interference_7060MHz_-76.77dBm_Normal



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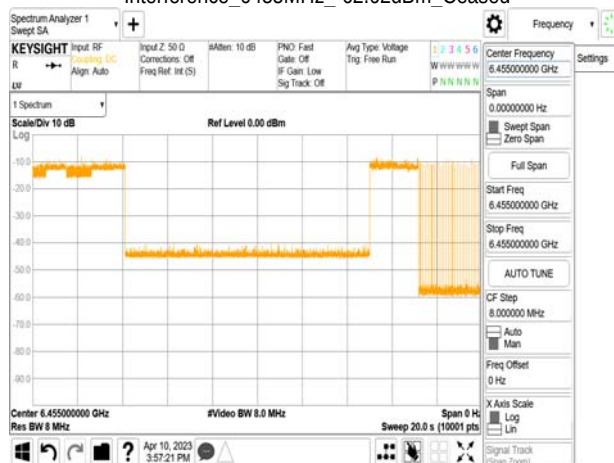
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802.11ax_20MHz_CF 6135MHz_
Interference_6135MHz_-62.57dBm_Ceased



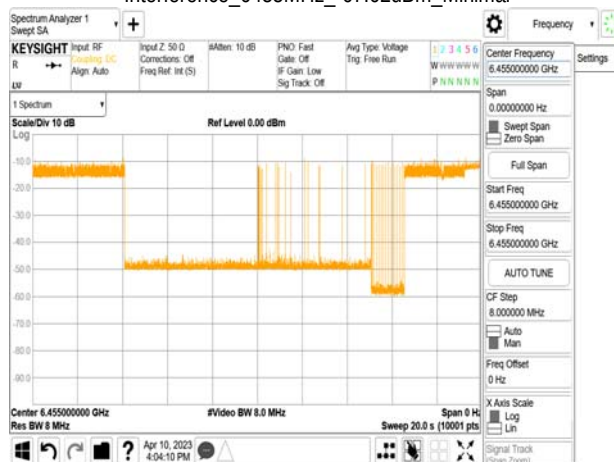
802.11ax_20MHz_CF 6455MHz_
Interference_6455MHz_-62.62dBm_Ceased



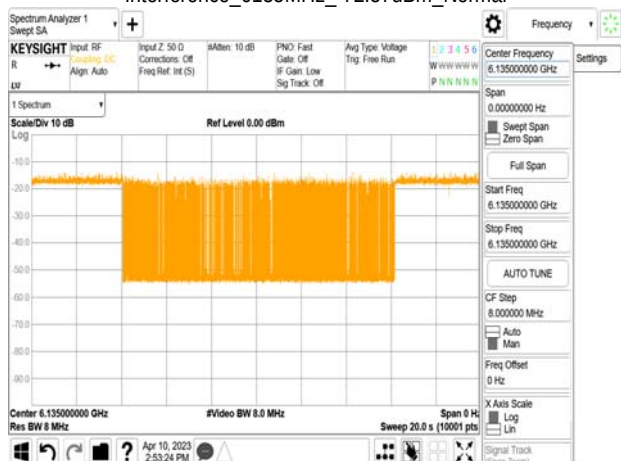
802.11ax_20MHz_CF 6135MHz_
Interference_6135MHz_-69.57dBm_Minimal



802.11ax_20MHz_CF 6455MHz_
Interference_6455MHz_-67.62dBm_Minimal



802.11ax_20MHz_CF 6135MHz_
Interference_6135MHz_-72.57dBm_Normal



802.11ax_20MHz_CF 6455MHz_
Interference_6455MHz_-70.62dBm_Normal



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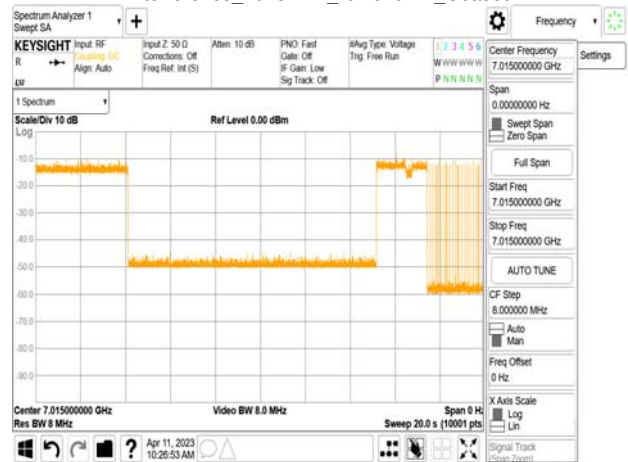
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802.11ax_20MHz_CF 6695MHz_
Interference_6695MHz_-64.62dBm_Ceased



802.11ax_20MHz_CF 7015MHz_
Interference_7015MHz_-67.52dBm_Ceased



802.11ax_20MHz_CF 6695MHz_
Interference_6695MHz_-73.62dBm_Minimal



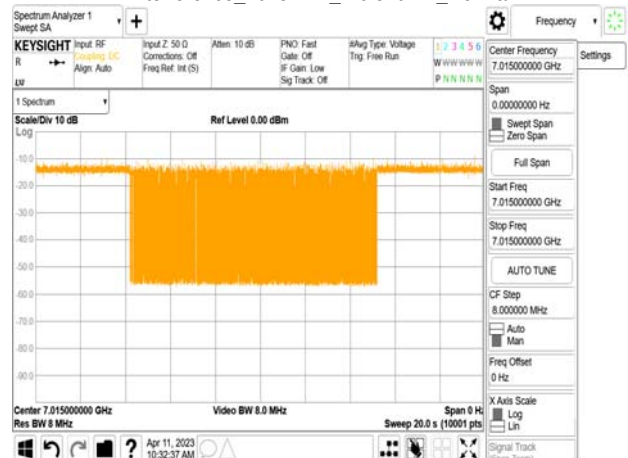
802.11ax_20MHz_CF 7015MHz_
Interference_7015MHz_-73.52dBm_Minimal



802.11ax_20MHz_CF 6695MHz_
Interference_6695MHz_-76.62dBm_Normal



802.11ax_20MHz_CF 7015MHz_
Interference_7015MHz_-76.52dBm_Normal



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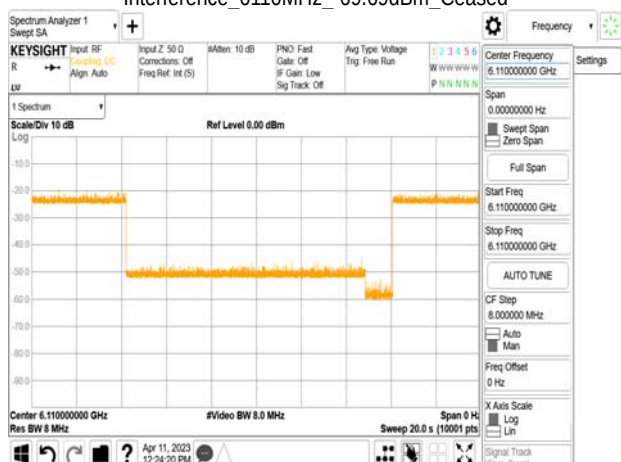
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f (886-2) 2298-0488

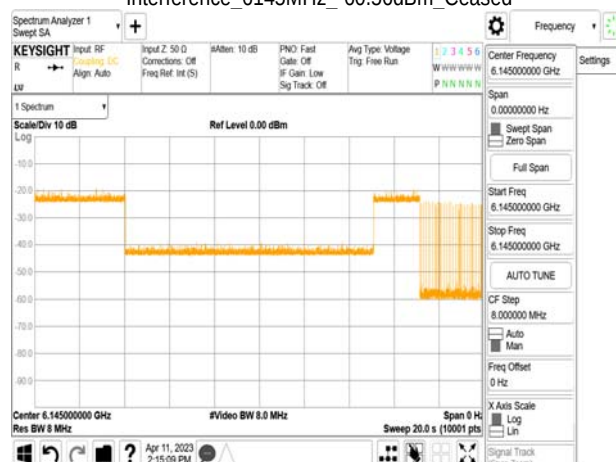
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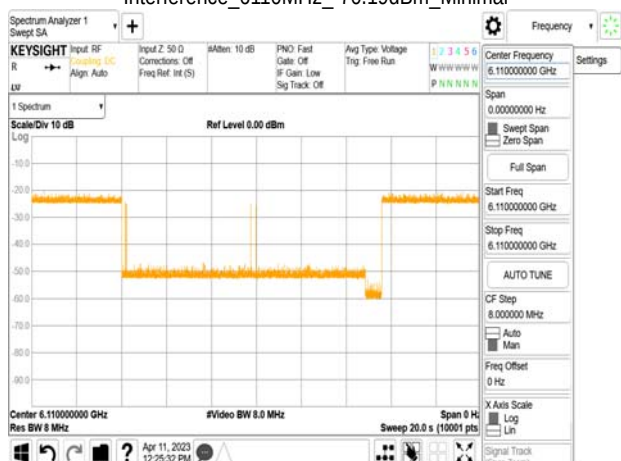
802.11ax_80MHz_CF 6145MHz_
Interference_6110MHz_-69.69dBm_Ceased



802.11ax_80MHz_CF 6145MHz_
Interference_6145MHz_-60.56dBm_Ceased



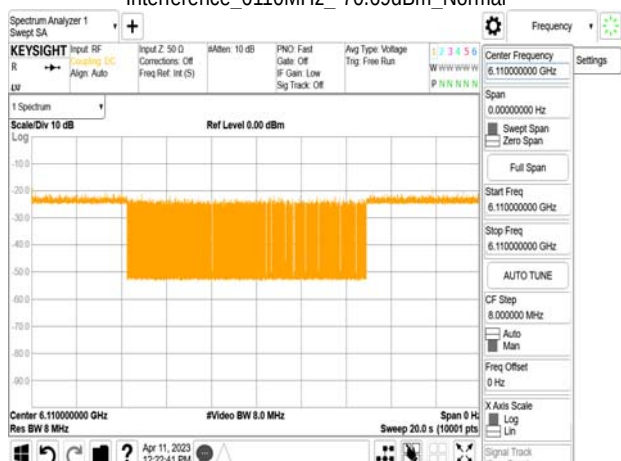
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Interference_6110MHz_-70.19dBm_Minimal



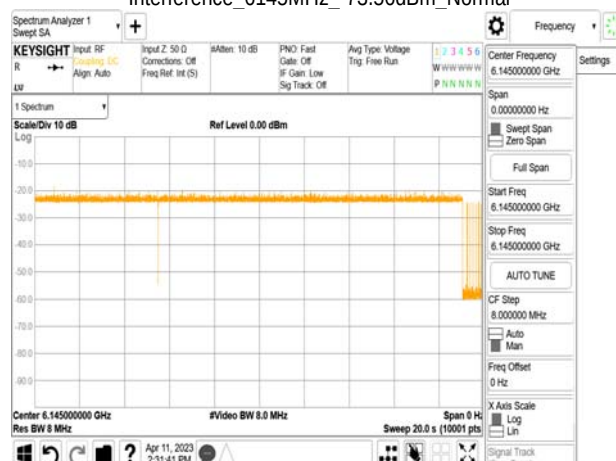
802.11ax_80MHz_CF 6145MHz_
Interference_6145MHz_-70.56dBm_Minimal



802.11ax_80MHz_CF 6145MHz_
Interference_6110MHz_-70.69dBm_Normal



802.11ax_80MHz_CF 6145MHz_
Interference_6145MHz_-73.56dBm_Normal

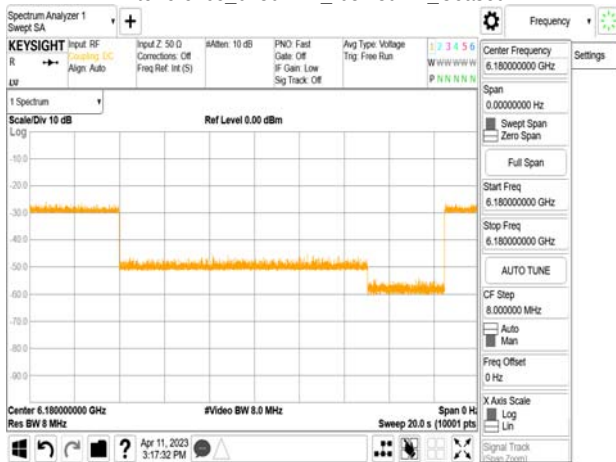


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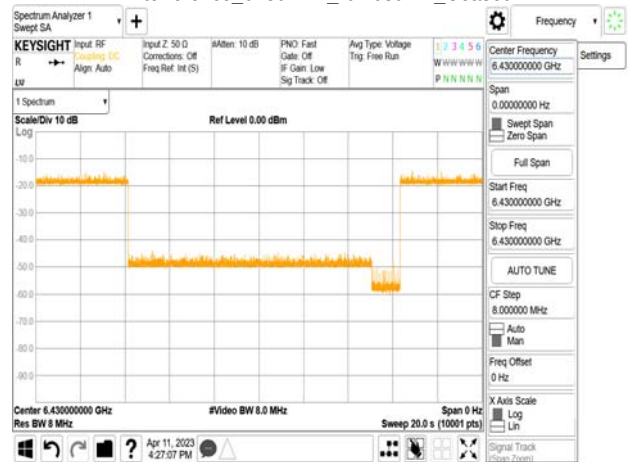
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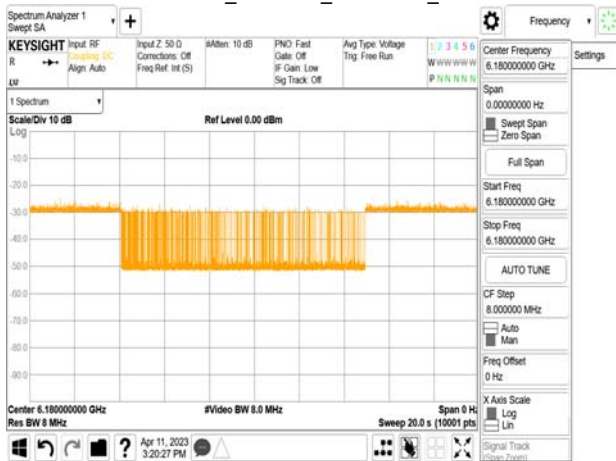
802.11ax_80MHz_CF 6145MHz_
Interference_6180MHz_-68.73dBm_Ceased



802.11ax_80MHz_CF 6465MHz_
Interference_6430MHz_-67.68dBm_Ceased



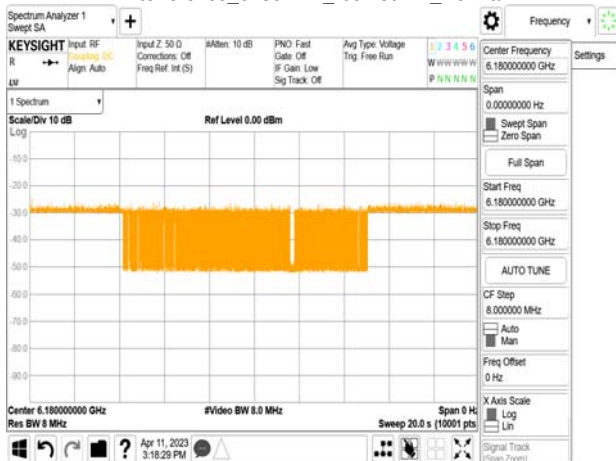
802.11ax_80MHz_CF 6145MHz_
Interference_6180MHz_-69.23dBm_Minimal



802.11ax_80MHz_CF 6465MHz_
Interference_6430MHz_-68.18dBm_Minimal



802.11ax_80MHz_CF 6145MHz_
Interference_6180MHz_-69.73dBm_Normal



802.11ax_80MHz_CF 6465MHz_
Interference_6430MHz_-68.68dBm_Normal

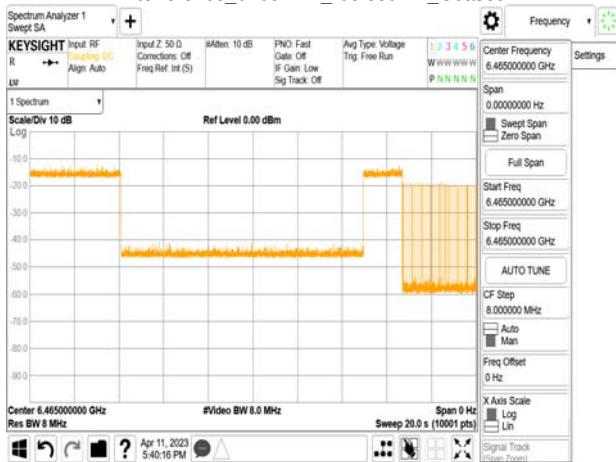


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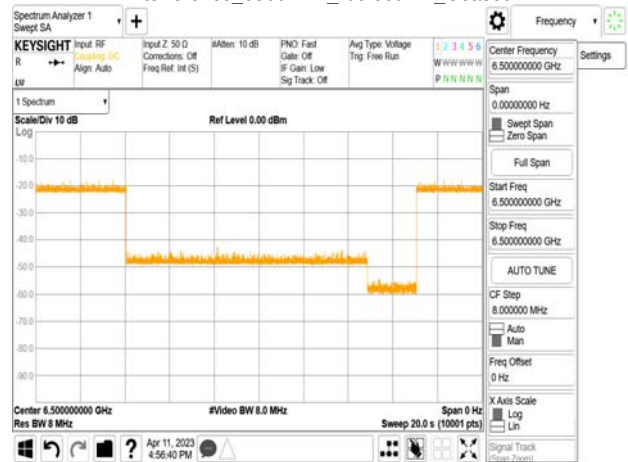
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802.11ax_80MHz_CF 6465MHz_
Interference_6465MHz_-63.85dBm_Ceased



802.11ax_80MHz_CF 6465MHz_
Interference_6500MHz_-66.66dBm_Ceased



802.11ax_80MHz_CF 6465MHz_
Interference_6465MHz_-67.85dBm_Minimal



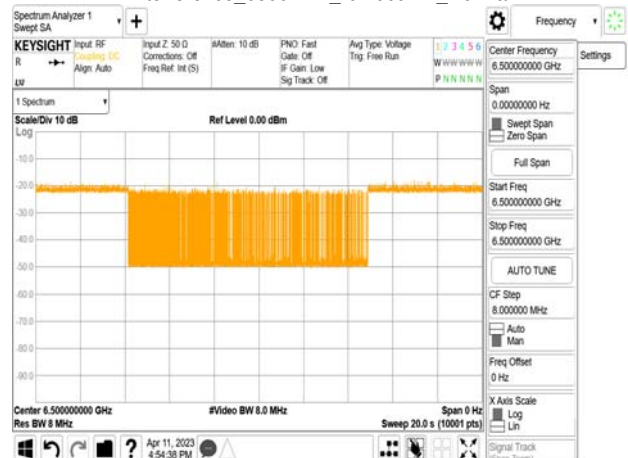
802.11ax_80MHz_CF 6465MHz_
Interference_6500MHz_-67.16dBm_Minimal



802.11ax_80MHz_CF 6465MHz_
Interference_6465MHz_-70.85dBm_Normal



802.11ax_80MHz_CF 6465MHz_
Interference_6500MHz_-67.66dBm_Normal

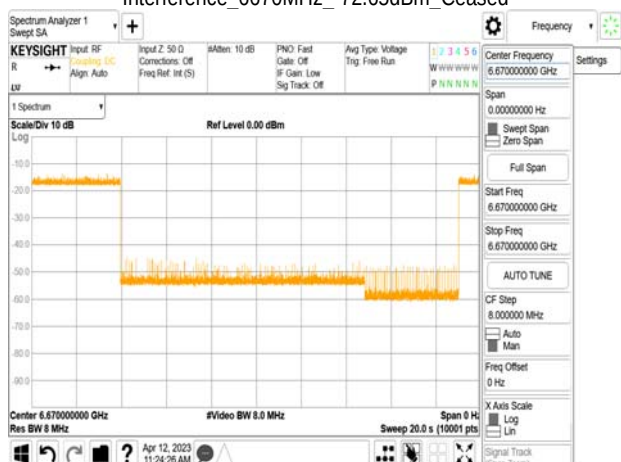


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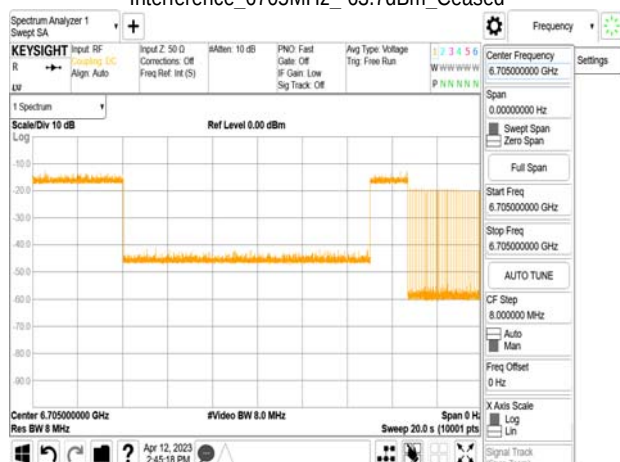
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802.11ax_80MHz_CF 6705MHz_
Interference_6670MHz_-72.65dBm_Ceased



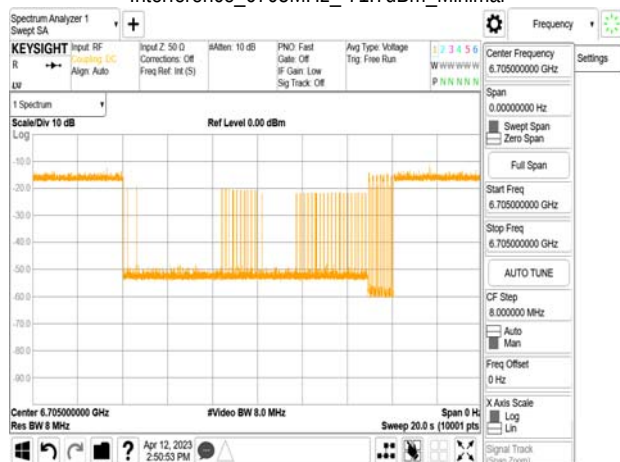
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Interference_6705MHz_-63.7dBm_Ceased



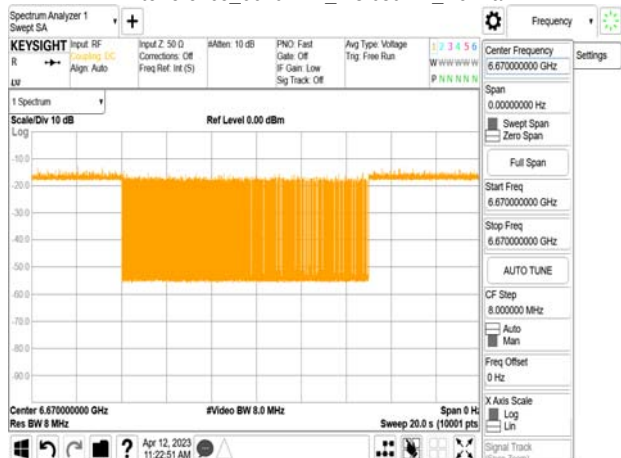
802.11ax_80MHz_CF 6705MHz_
Interference_6670MHz_-73.15dBm_Minimal



802.11ax_80MHz_CF 6705MHz_
Interference_6705MHz_-71.7dBm_Minimal



802.11ax_80MHz_CF 6705MHz_
Interference_6670MHz_-73.65dBm_Normal



802.11ax_80MHz_CF 6705MHz_
Interference_6705MHz_-74.7dBm_Normal



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台灣檢驗科技股份有限公司

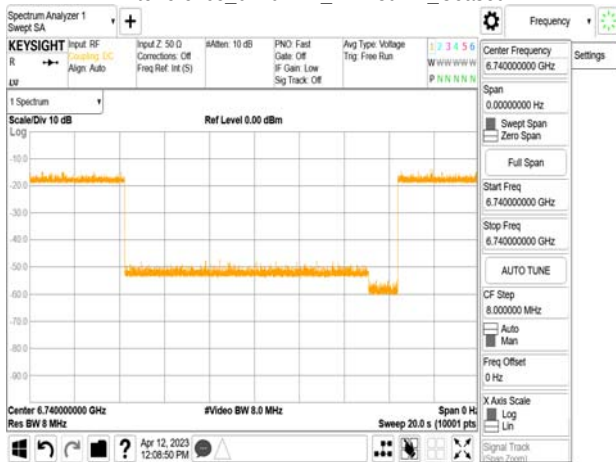
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f (886-2) 2298-0488

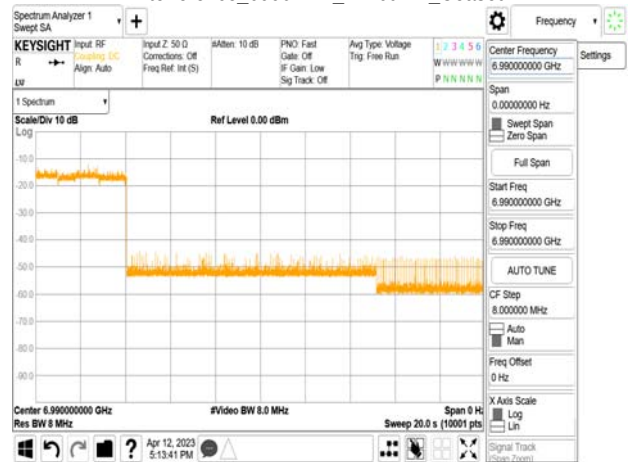
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802.11ax_80MHz_CF 6705MHz_
Interference_6740MHz_-71.73dBm_Ceased



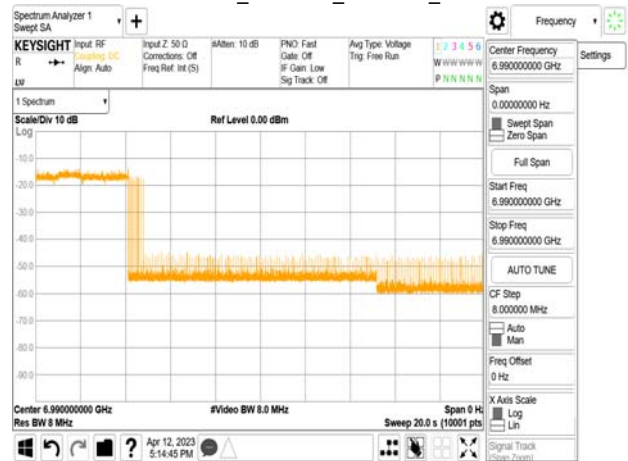
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Interference_6990MHz_-71.6dBm_Ceased



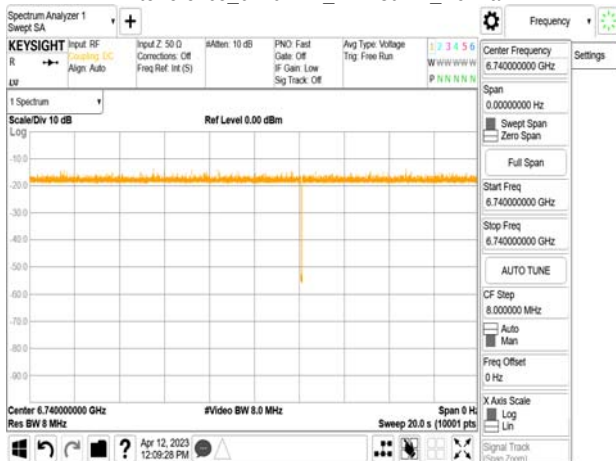
802.11ax_80MHz_CF 6705MHz_
Interference_6740MHz_-72.23dBm_Minimal



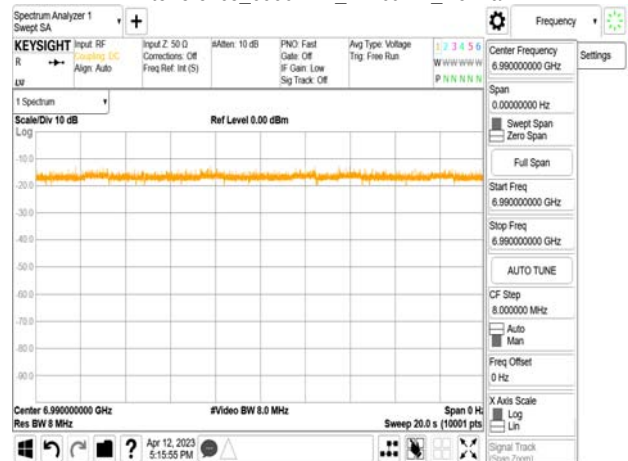
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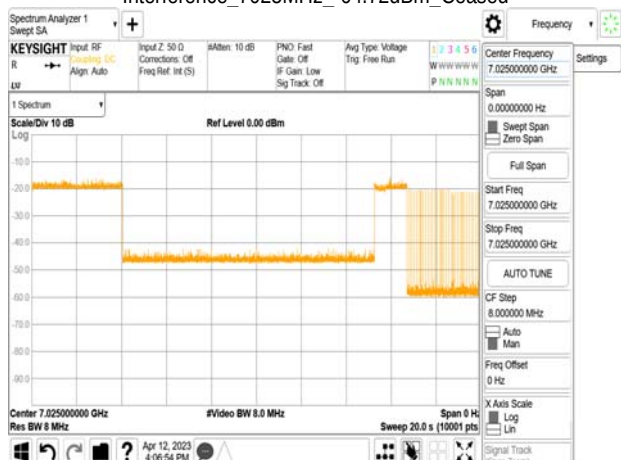


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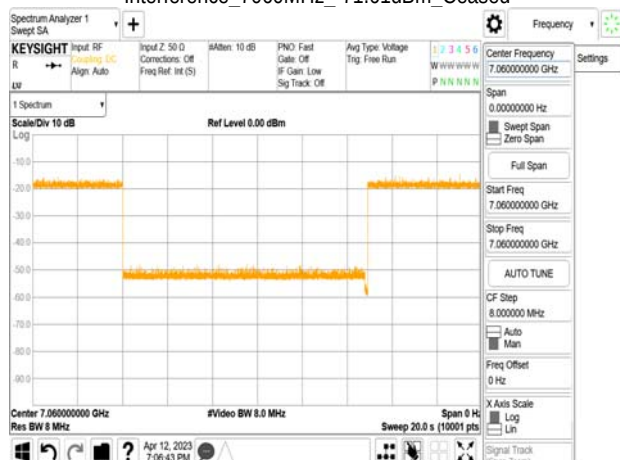
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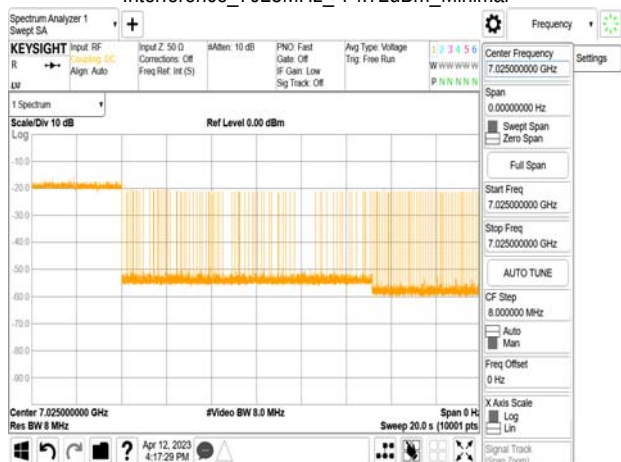
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802.11ax_80MHz_CF 7025MHz_
Interference_7025MHz_-74.72dBm_Minimal



802.11ax_80MHz_CF 7025MHz_
Interference_7060MHz_-72.61dBm_Minimal



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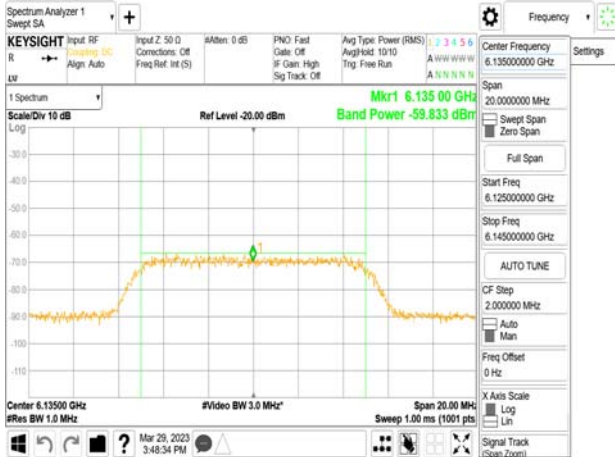
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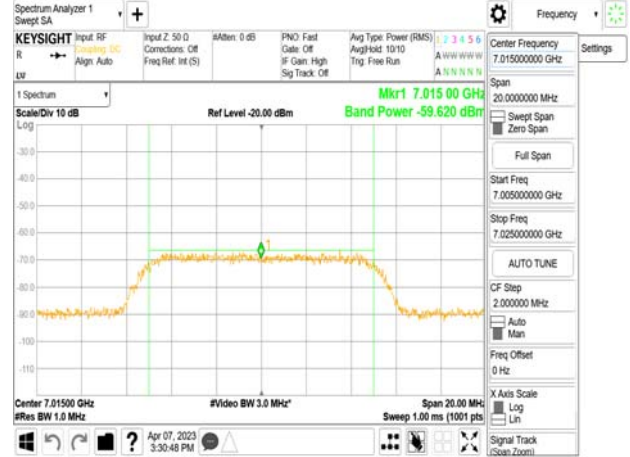
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13.4.3 Incumbent_signal Slave

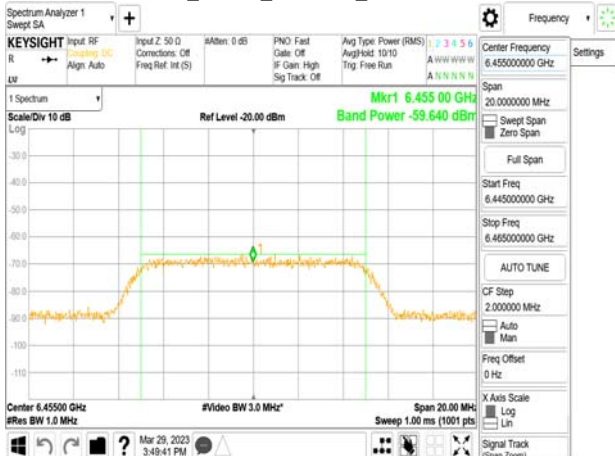
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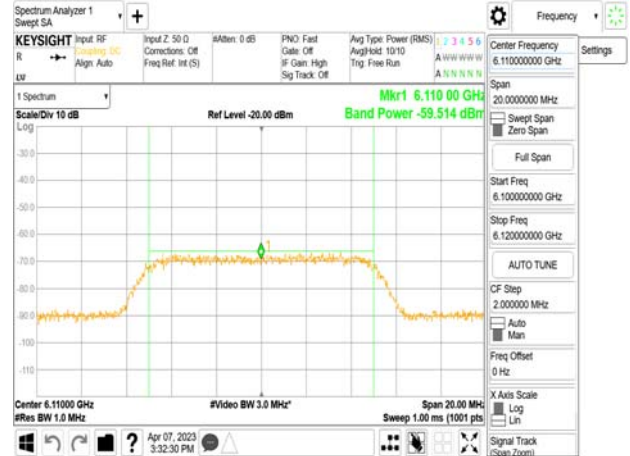
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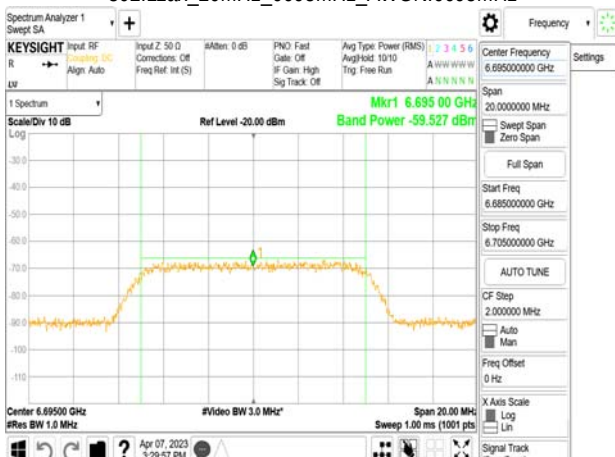
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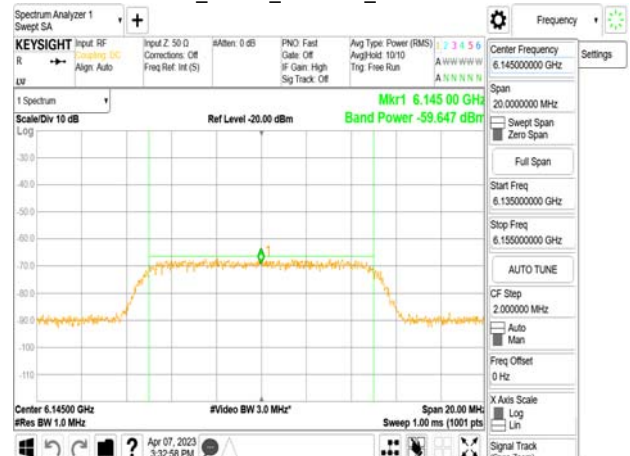
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802.11ax_20MHz_6695MHz_AWGN:6695MHz



802.11ax_80MHz_6145MHz_AWGN:6145MHz



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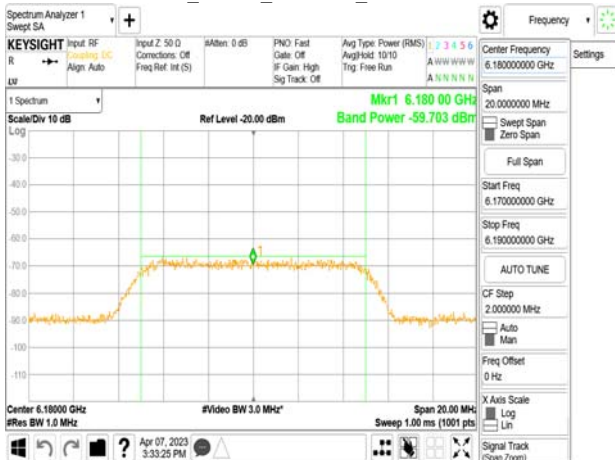
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f (886-2) 2298-0488

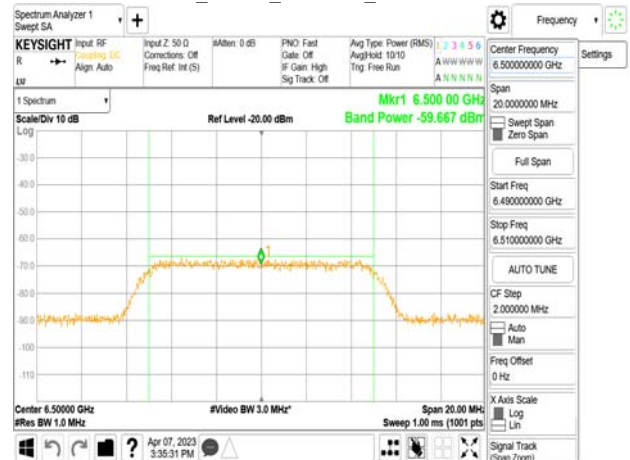
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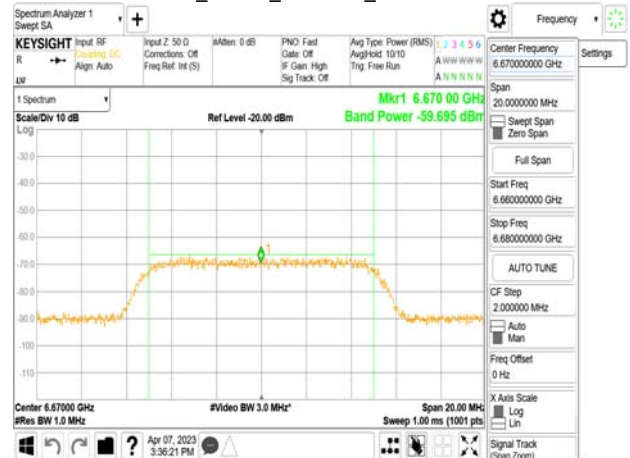
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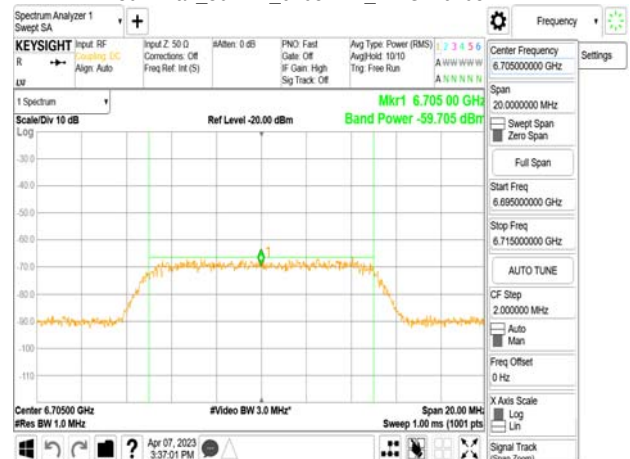
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802.11ax_80MHz_6705MHz_AWGN:6705MHz



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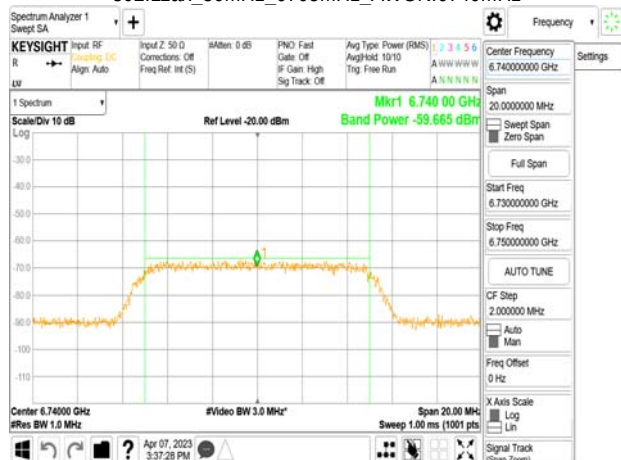
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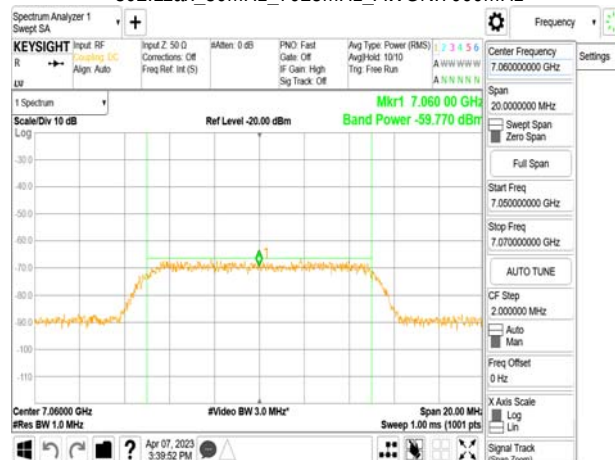
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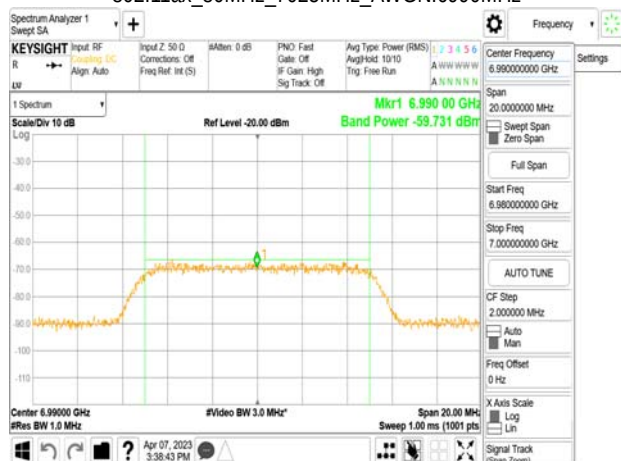
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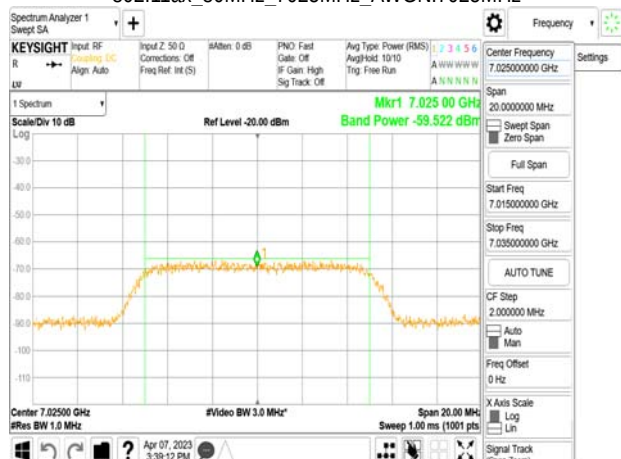
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802.11ax_80MHz_7025MHz_AWGN:6990MHz



802.11ax_80MHz_7025MHz_AWGN:7025MHz



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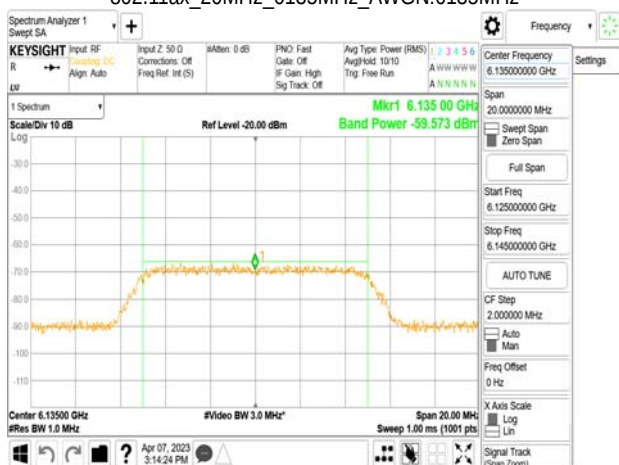
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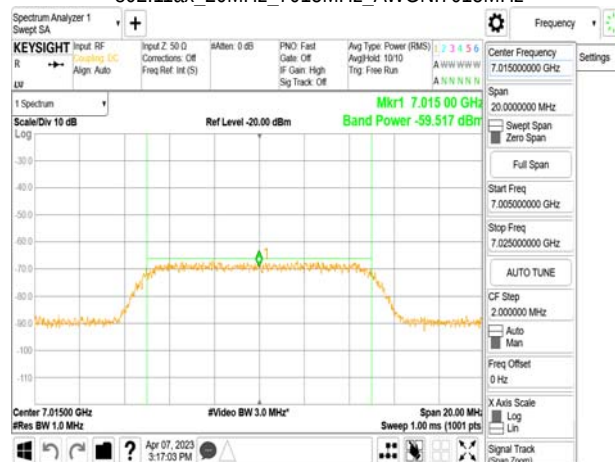
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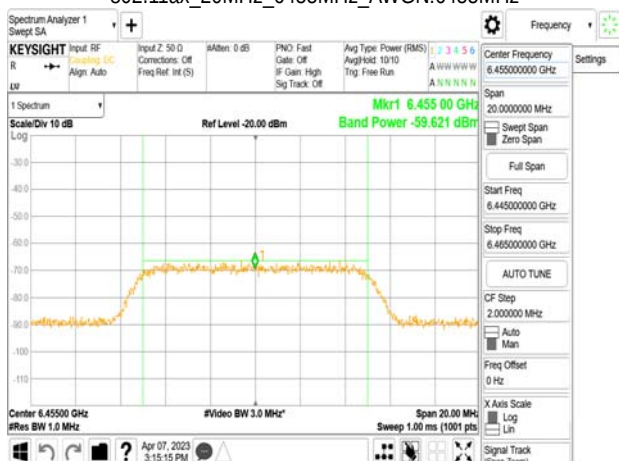
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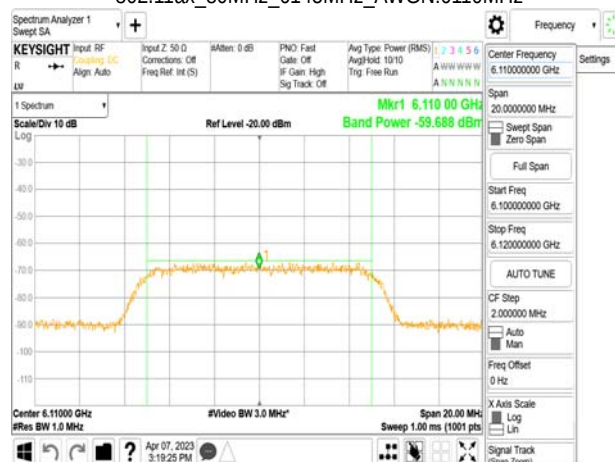
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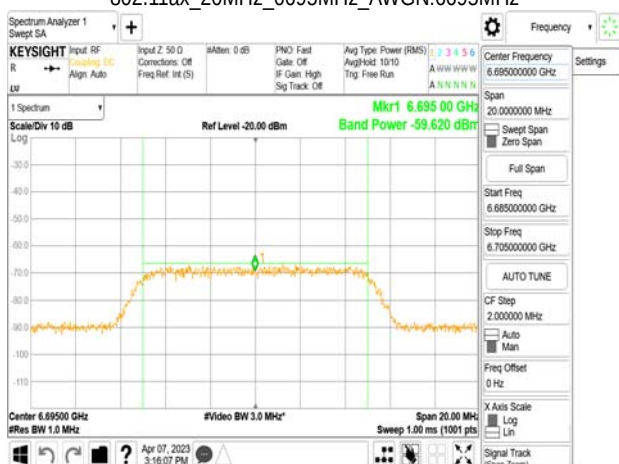
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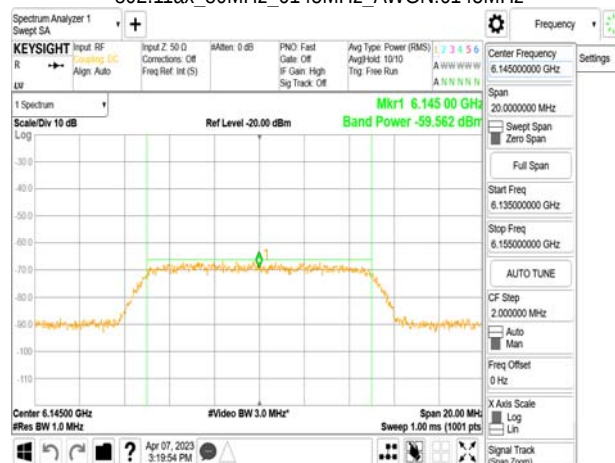
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802.11ax_20MHz_6695MHz_AWGN:6695MHz



802.11ax_80MHz_6145MHz_AWGN:6145MHz



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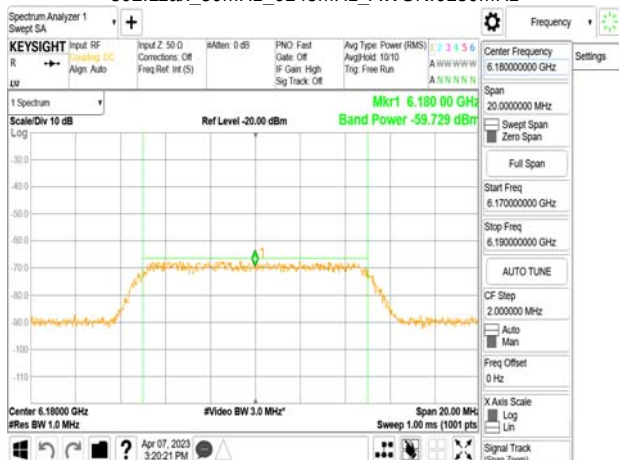
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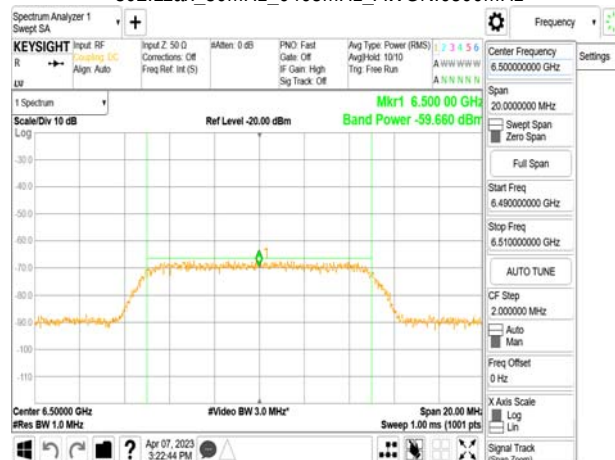
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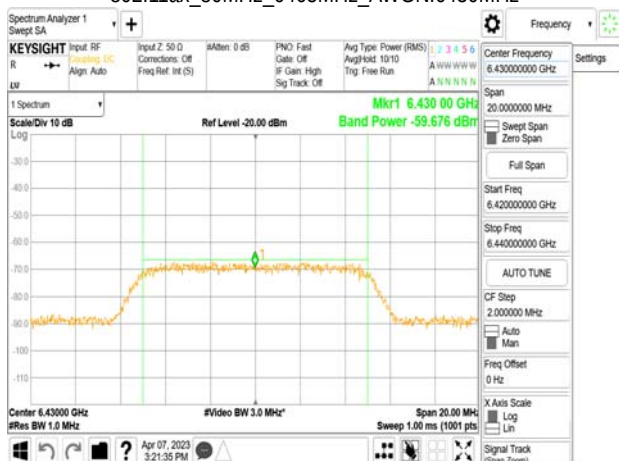
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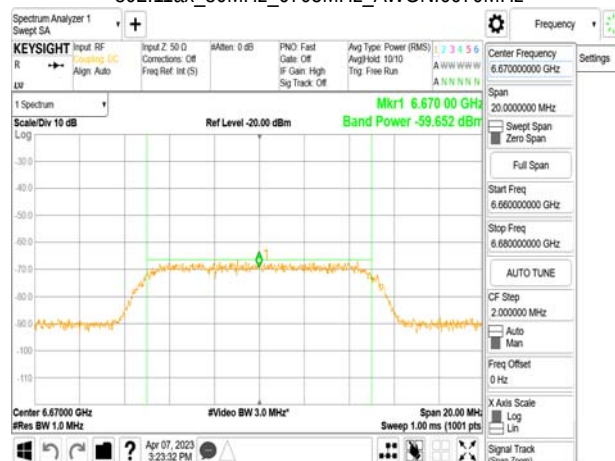
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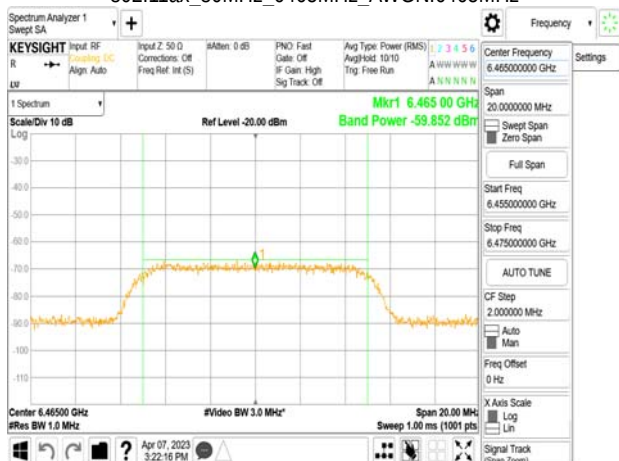
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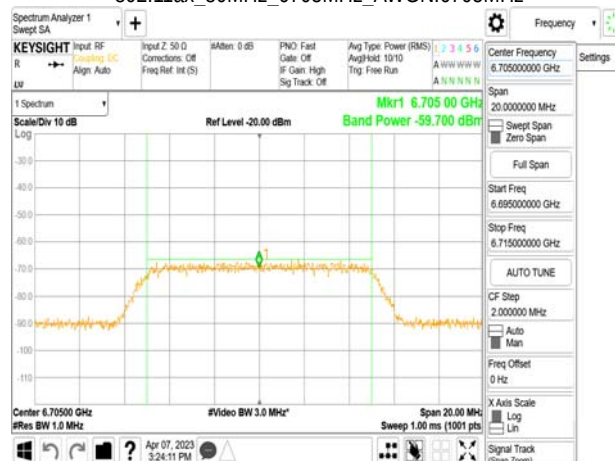
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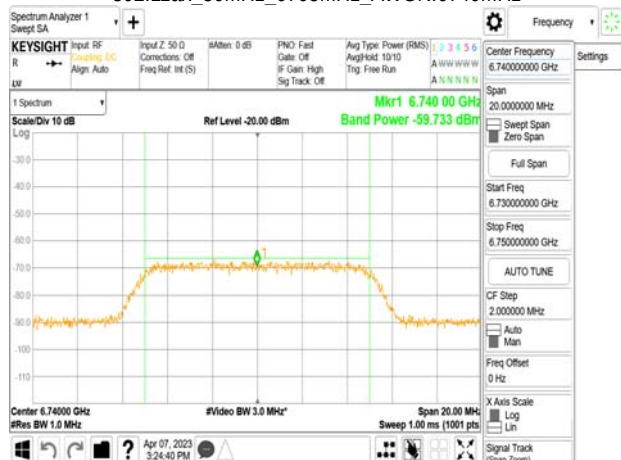


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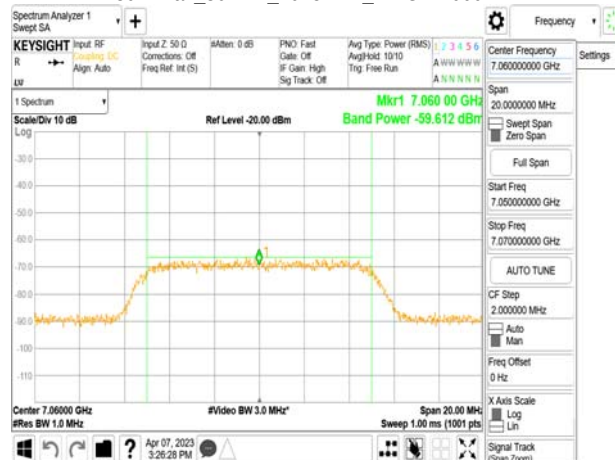
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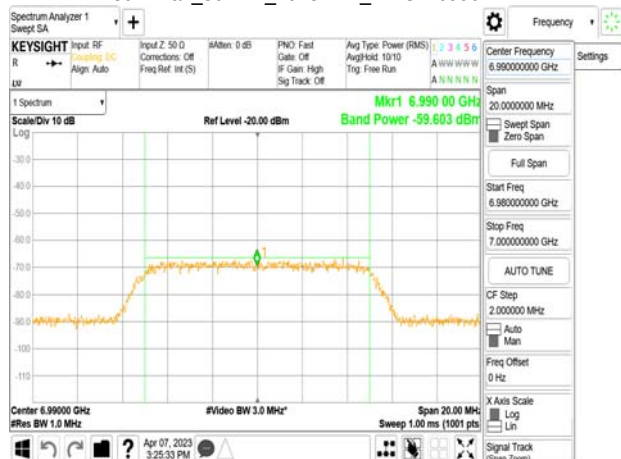
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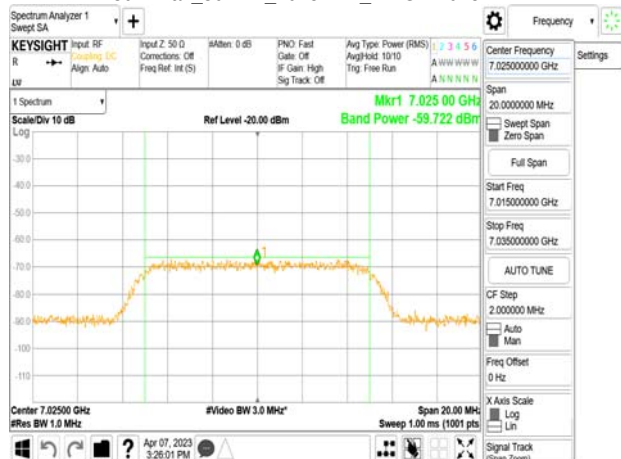
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802.11ax_80MHz_7025MHz_AWGN:7025MHz



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14 DEMONSTRATION OF PROPER POWER ADJUSTMENT BASED ON ASSOCIATED AP

14.1 Standard Applicable

A client device may connect to a Standard Power AP with a maximum power level of 30 dBm EIRP. A client may also connect to a Low Power indoor AP, but the power level is limited to a maximum of 24 dBm EIRP. If a client has the flexibility to connect to both APs, verification is needed to show that it can distinguish between the two configurations, and then control the power levels accordingly.

14.2 Measurement Procedure

1. Connect equipment as shown in Figure 6 below.
2. Adjust Atten 2 to Std Power AP so as to facilitate error free communication with the Client (Atten 1 should be set to High on the RF path to the Low Power AP).
3. Configure the Client and APs so that they associate and start sending data (stream data). It is important that the client is configured to transmit at its highest power level. Initially, because the attenuation on Atten 1 is set high, the Client will only associate with the Std Power AP.
4. Verify transmission between Client and Std Power AP. Additional attenuators may be required to protect measurement equipment. Measure the Client RF power using any of the methods in C63.10 for NII devices. Note – if the client RF power has been certified to never operate above 24 dBm EIRP then this test is not necessary.
5. Gradually increase Atten 2 while at the same time decreasing Atten 1. This simulates the Client moving from outdoors to indoors. At some level of attenuation the Client should associate with the Low Power indoor AP. Verify transmission between Client and Low Power AP.
6. Measure the RF power of the Client device using the same method as in step 4. Verify the power is no more than 24 dBm EIRP.

Note – measuring Client RF power reliably from a directional coupler measurement port may be tricky. Due to coupling, some energy from the AP will show up on the measurement port. Signal isolation techniques on the measurement analyzer will need to be used.

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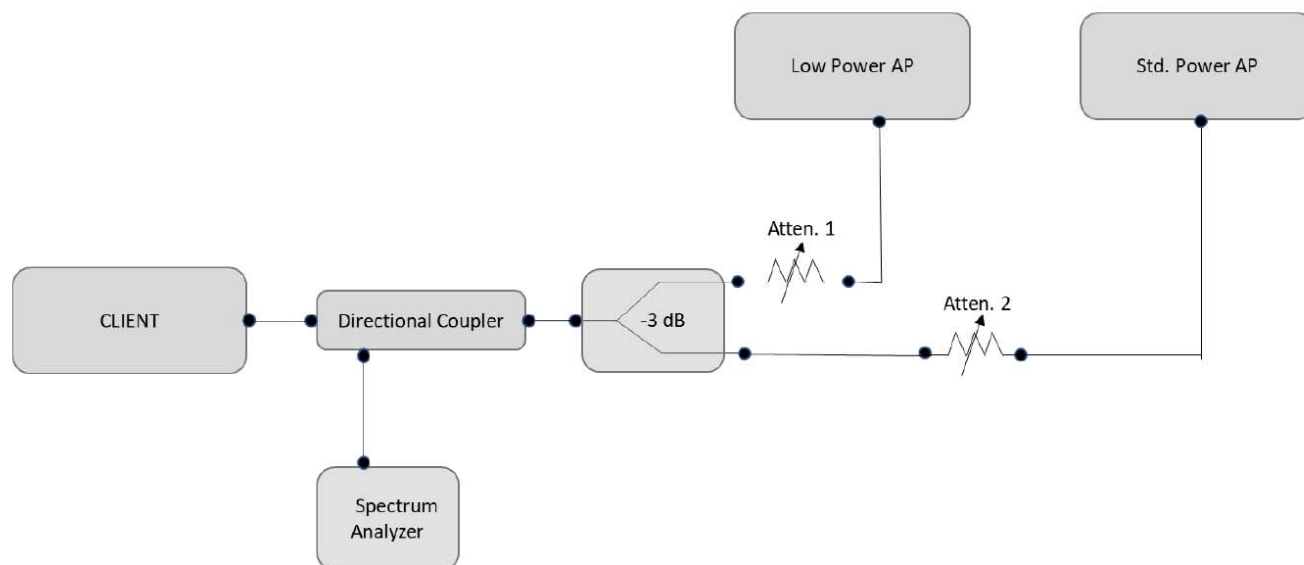


Figure 6. Test setup for conducted testing

14.4 Measurement Result

N/A, Device only associates with indoor AP

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15 TRANSMISSION IN THE ABSENCE OF DATA

15.1 Standard Applicable

According to §15.407(c) & RSS-248 §4.11

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.

15.2 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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16 ANTENNA REQUIREMENT

16.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

16.2 Antenna Connected Construction

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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