

11.4.1 Radiated Band Edge Measurement Result

Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-09-25

Test Frequency :2402 MHz

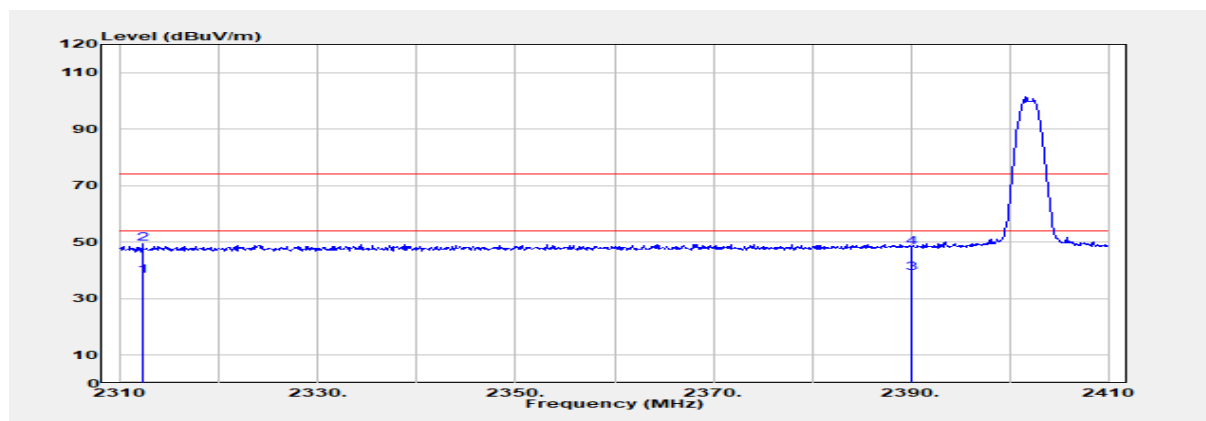
Temp./Humi. :22.1°C/59%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony 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
2312.200	Average	43.07	-4.90	38.17	54.00	-15.83
2312.200	Peak	54.23	-4.90	49.32	74.00	-24.68
2390.000	Average	43.42	-4.38	39.04	54.00	-14.96
2390.000	Peak	52.44	-4.38	48.05	74.00	-25.95

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Operation Mode :BLE 1M

Test Date :2024-09-25

Test Frequency :2402 MHz

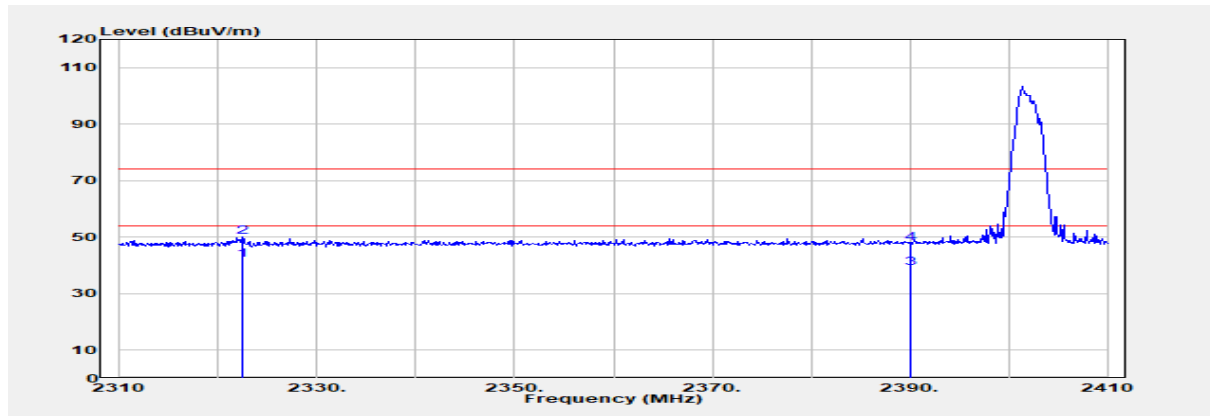
Temp./Humi. :22.1°C/59%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2322.500	Average	46.83	-4.83	42.00	54.00	-12.00
2322.500	Peak	54.91	-4.83	50.08	74.00	-23.92
2390.000	Average	43.28	-4.38	38.90	54.00	-15.10
2390.000	Peak	52.30	-4.38	47.92	74.00	-26.08

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-09-25

Test Frequency :2480 MHz

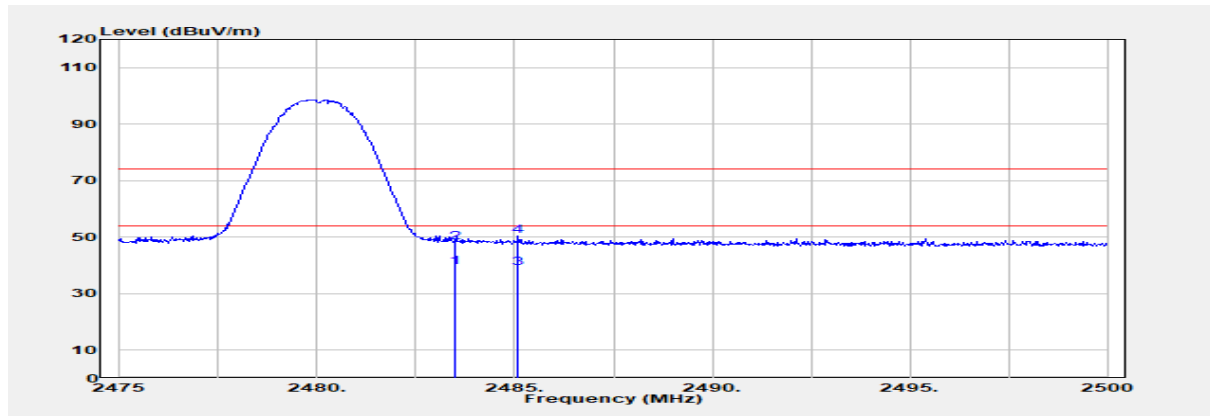
Temp./Humi. :22.1°C/59%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony 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
2483.500	Average	44.48	-5.14	39.34	54.00	-14.66
2483.500	Peak	53.38	-5.14	48.24	74.00	-25.76
2485.075	Average	44.10	-5.15	38.95	54.00	-15.05
2485.075	Peak	55.65	-5.15	50.50	74.00	-23.50

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Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-09-25

Test Frequency :2480 MHz

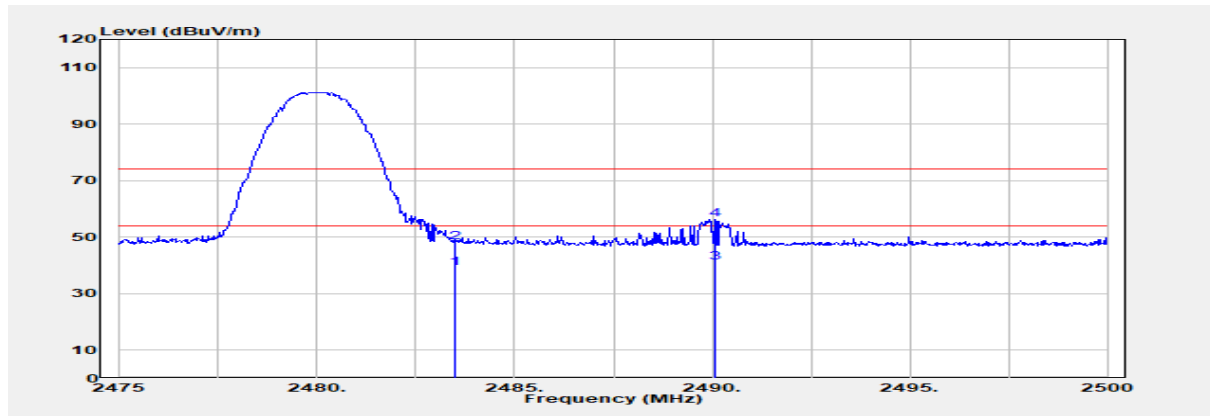
Temp./Humi. :22.1°C/59%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony 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
2483.500	Average	44.29	-5.14	39.15	54.00	-14.85
2483.500	Peak	53.19	-5.14	48.05	74.00	-25.95
2490.050	Average	46.19	-5.17	41.02	54.00	-12.98
2490.050	Peak	61.37	-5.17	56.20	74.00	-17.80

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-09-25

Test Frequency :2402 MHz

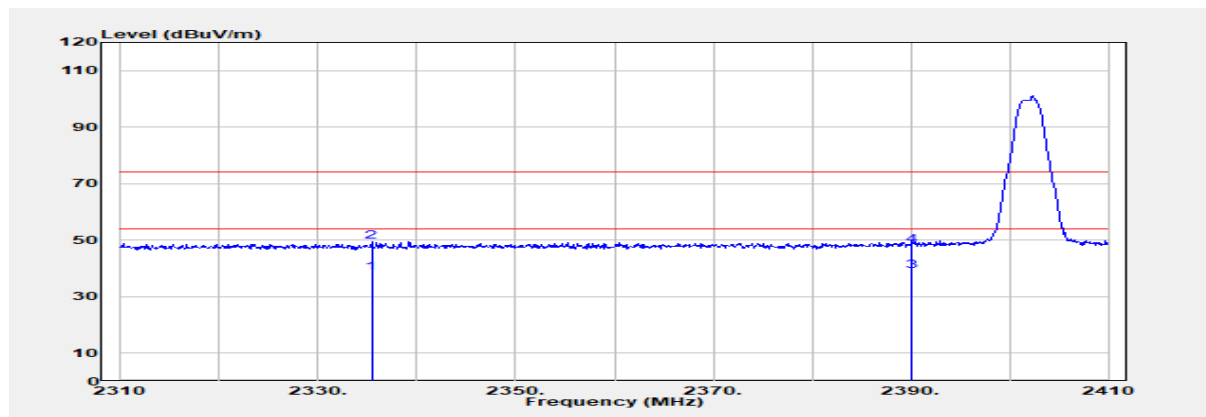
Temp./Humi. :22.1°C/59%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2335.400	Average	42.96	-4.74	38.22	54.00	-15.78
2335.400	Peak	54.29	-4.74	49.56	74.00	-24.44
2390.000	Average	43.51	-4.38	39.13	54.00	-14.87
2390.000	Peak	52.39	-4.38	48.00	74.00	-26.00

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Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-09-25

Test Frequency :2402 MHz

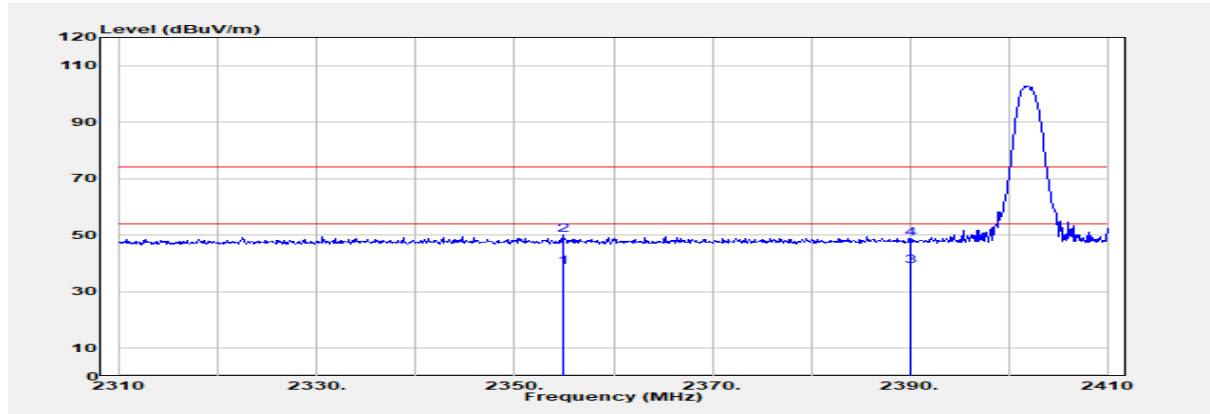
Temp./Humi. :22.1°C/59%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2354.900	Average	43.43	-4.60	38.83	54.00	-15.17
2354.900	Peak	54.61	-4.60	50.01	74.00	-23.99
2390.000	Average	43.39	-4.38	39.00	54.00	-15.00
2390.000	Peak	53.24	-4.38	48.86	74.00	-25.14

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-09-25

Test Frequency :2480 MHz

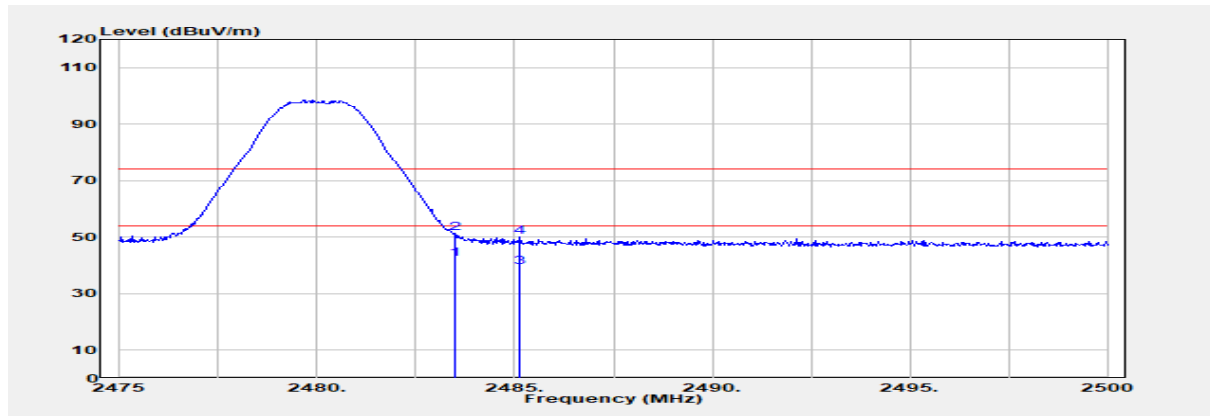
Temp./Humi. :22.1°C/59%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony 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
2483.500	Average	47.41	-5.14	42.27	54.00	-11.73
2483.500	Peak	56.68	-5.14	51.54	74.00	-22.46
2485.125	Average	44.57	-5.15	39.42	54.00	-14.58
2485.125	Peak	55.34	-5.15	50.19	74.00	-23.81

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Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-09-25

Test Frequency :2480 MHz

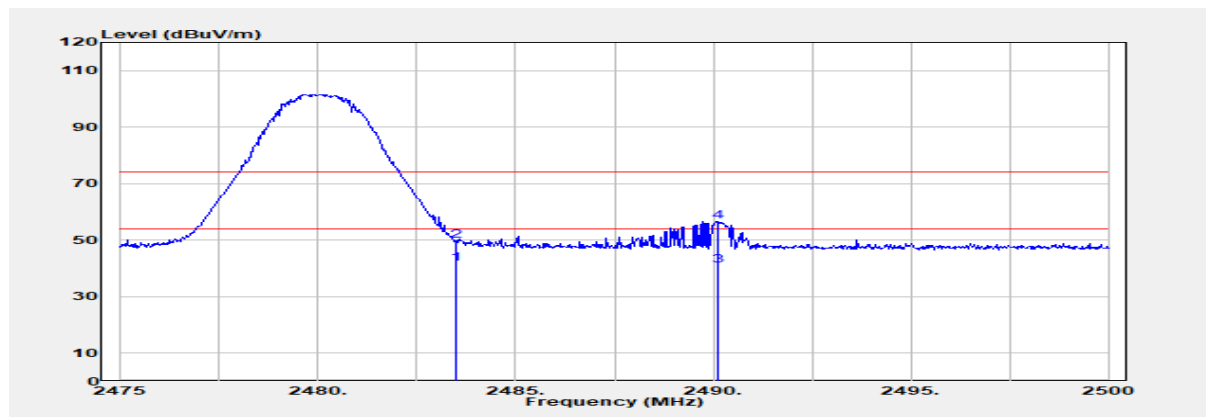
Temp./Humi. :22.1°C/59%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony 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
2483.500	Average	46.71	-5.14	41.58	54.00	-12.42
2483.500	Peak	54.86	-5.14	49.72	74.00	-24.28
2490.100	Average	46.25	-5.17	41.08	54.00	-12.92
2490.100	Peak	61.72	-5.17	56.55	74.00	-17.45

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 125k

Test Date :2024-09-25

Test Frequency :2402 MHz

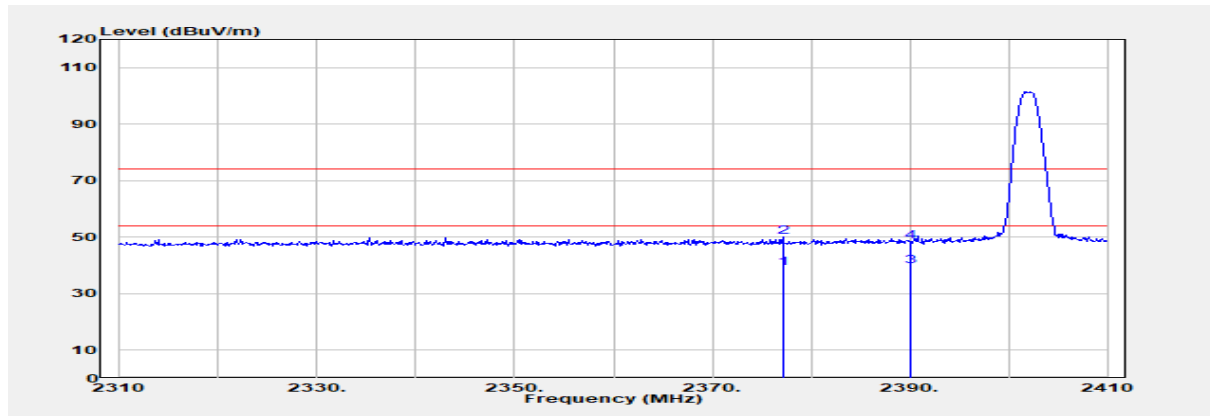
Temp./Humi. :22.1°C/59%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony 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
2377.200	Average	43.53	-4.46	39.07	54.00	-14.93
2377.200	Peak	54.67	-4.46	50.21	74.00	-23.79
2390.000	Average	44.07	-4.38	39.69	54.00	-14.31
2390.000	Peak	52.87	-4.38	48.48	74.00	-25.52

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Test Site :SAC D

Operation Mode :BLE 125k

Test Date :2024-09-25

Test Frequency :2402 MHz

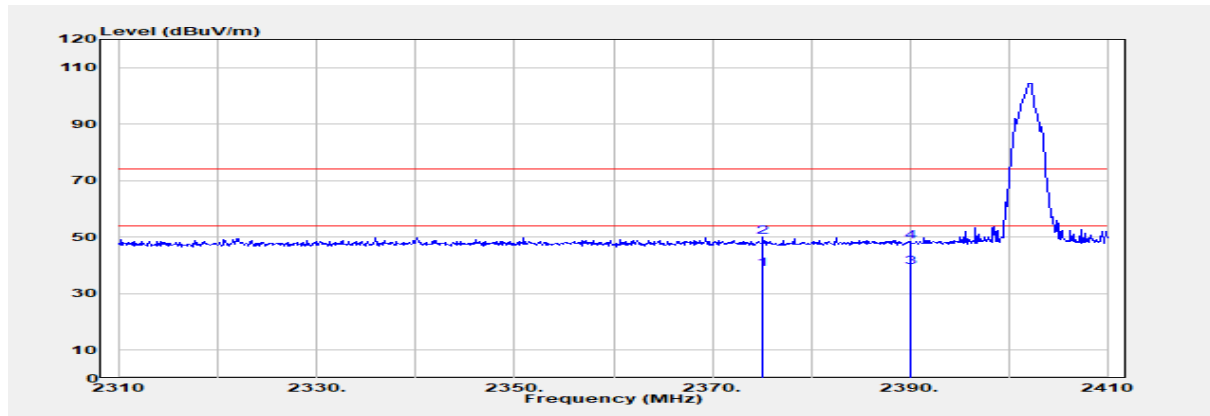
Temp./Humi. :22.1°C/59%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony 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
2375.100	Average	43.32	-4.48	38.84	54.00	-15.16
2375.100	Peak	54.49	-4.48	50.02	74.00	-23.98
2390.000	Average	43.73	-4.38	39.35	54.00	-14.65
2390.000	Peak	53.00	-4.38	48.61	74.00	-25.39

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Test Site :SAC D

Operation Mode :BLE 125k

Test Date :2024-09-25

Test Frequency :2480 MHz

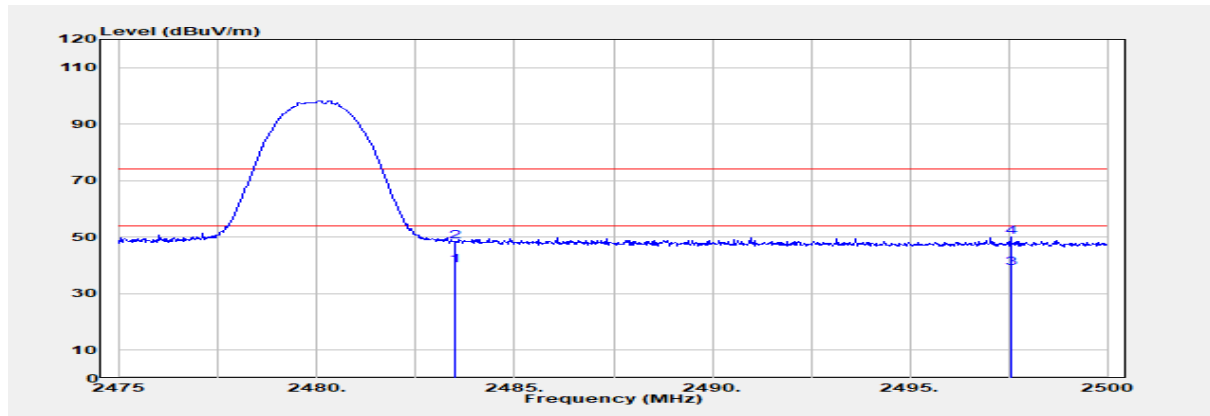
Temp./Humi. :22.1°C/59%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony 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
2483.500	Average	45.24	-5.14	40.10	54.00	-13.90
2483.500	Peak	53.64	-5.14	48.50	74.00	-25.50
2497.550	Average	44.13	-5.22	38.92	54.00	-15.08
2497.550	Peak	55.15	-5.22	49.93	74.00	-24.07

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 125k

Test Date :2024-09-25

Test Frequency :2480 MHz

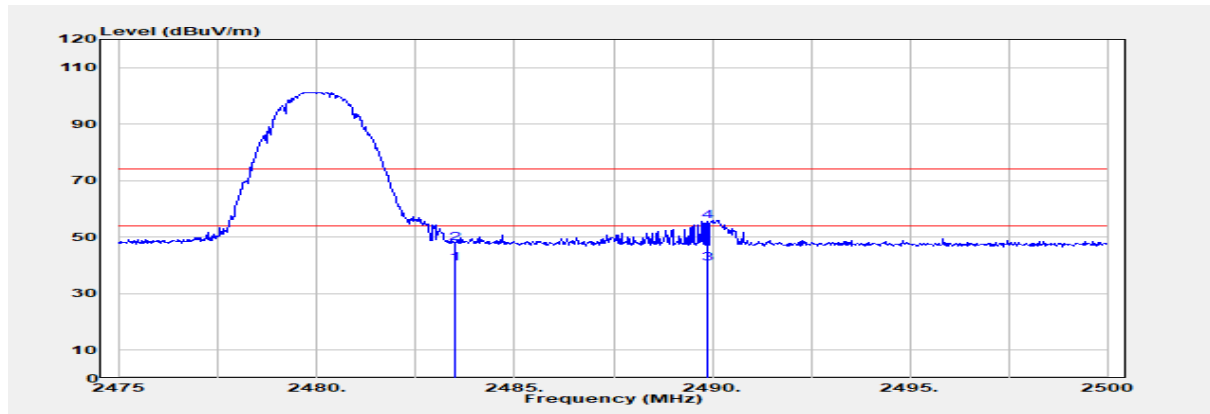
Temp./Humi. :22.1°C/59%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony 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
2483.500	Average	45.84	-5.14	40.70	54.00	-13.30
2483.500	Peak	53.06	-5.14	47.92	74.00	-26.08
2489.875	Average	45.83	-5.17	40.66	54.00	-13.34
2489.875	Peak	60.94	-5.17	55.77	74.00	-18.23

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 500k

Test Date :2024-09-25

Test Frequency :2402 MHz

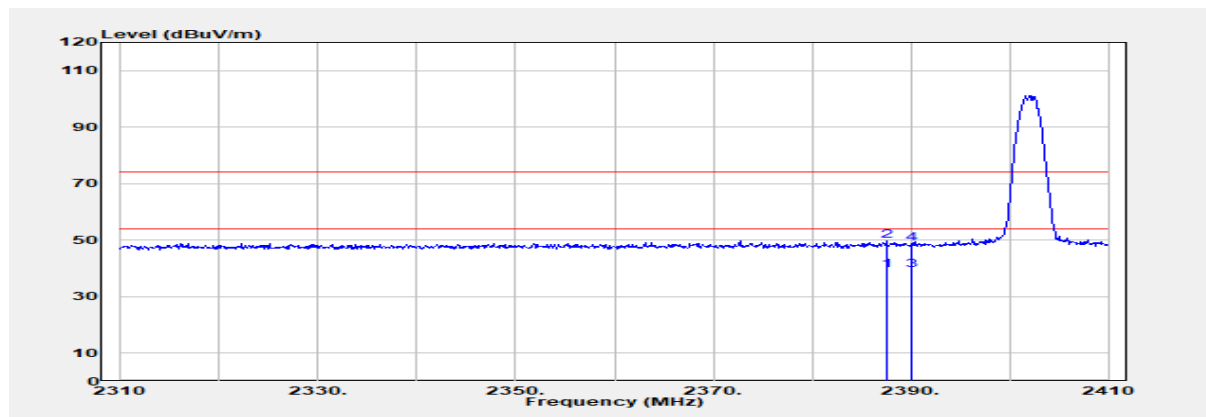
Temp./Humi. :22.1°C/59%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2387.500	Average	43.76	-4.40	39.36	54.00	-14.64
2387.500	Peak	54.19	-4.40	49.80	74.00	-24.20
2390.000	Average	43.57	-4.38	39.19	54.00	-14.81
2390.000	Peak	53.10	-4.38	48.71	74.00	-25.29

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 500k

Test Date :2024-09-25

Test Frequency :2402 MHz

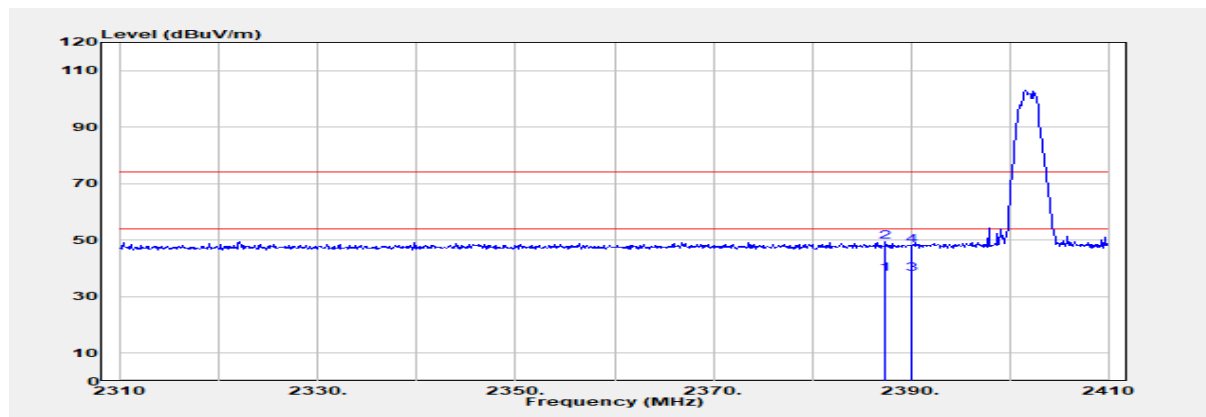
Temp./Humi. :22.1°C/59%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2387.400	Average	42.49	-4.40	38.09	54.00	-15.91
2387.400	Peak	53.90	-4.40	49.50	74.00	-24.50
2390.000	Average	42.35	-4.38	37.96	54.00	-16.04
2390.000	Peak	52.41	-4.38	48.03	74.00	-25.97

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 500k

Test Date :2024-09-25

Test Frequency :2480 MHz

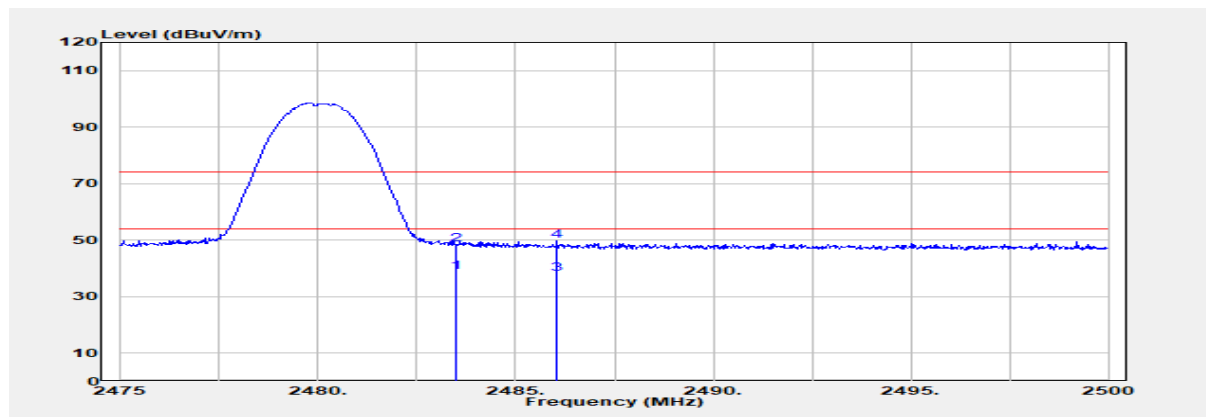
Temp./Humi. :22.1°C/59%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony 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
2483.500	Average	43.74	-5.14	38.60	54.00	-15.40
2483.500	Peak	53.44	-5.14	48.31	74.00	-25.69
2486.050	Average	43.09	-5.15	37.93	54.00	-16.07
2486.050	Peak	54.87	-5.15	49.72	74.00	-24.28

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 500k

Test Date :2024-09-25

Test Frequency :2480 MHz

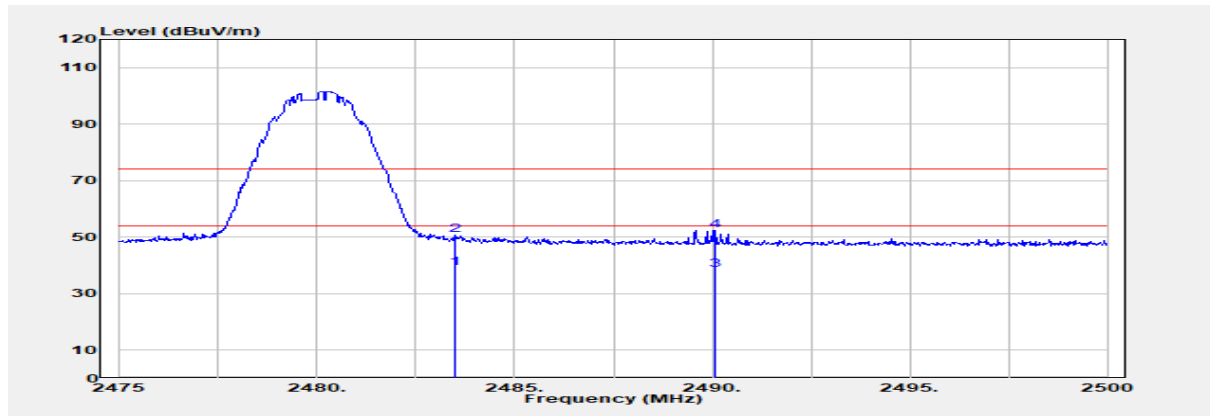
Temp./Humi. :22.1°C/59%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	44.25	-5.14	39.12	54.00	-14.88
2483.500	Peak	55.83	-5.14	50.69	74.00	-23.31
2490.075	Average	43.53	-5.17	38.35	54.00	-15.65
2490.075	Peak	57.67	-5.17	52.50	74.00	-21.50

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11.4.2 Radiated Spurious Emission

Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-09-25

Test Frequency :2442 MHz

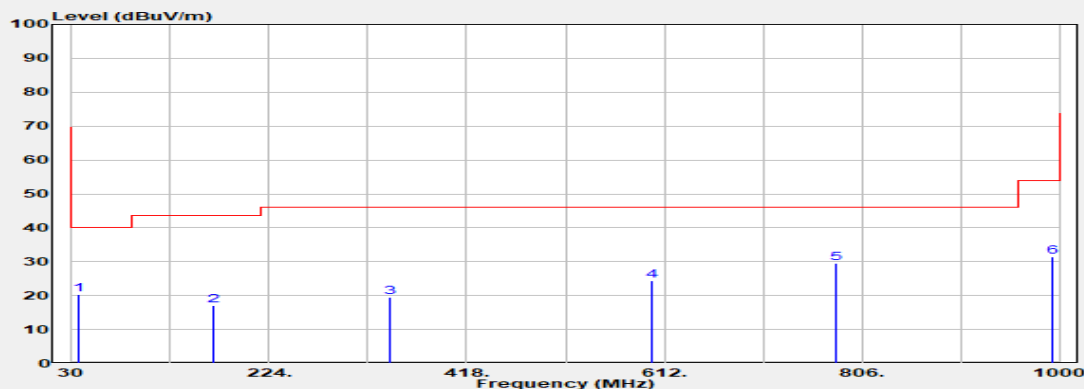
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony 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
36.790	Peak	38.47	-18.06	20.42	40.00	-19.58
168.710	Peak	33.75	-16.75	17.00	43.50	-26.50
342.340	Peak	34.09	-14.63	19.46	46.00	-26.54
600.360	Peak	33.50	-9.11	24.39	46.00	-21.61
780.780	Peak	36.14	-6.67	29.47	46.00	-16.53
993.210	Peak	35.40	-3.99	31.41	54.00	-22.59

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-09-25

Test Frequency :2442 MHz

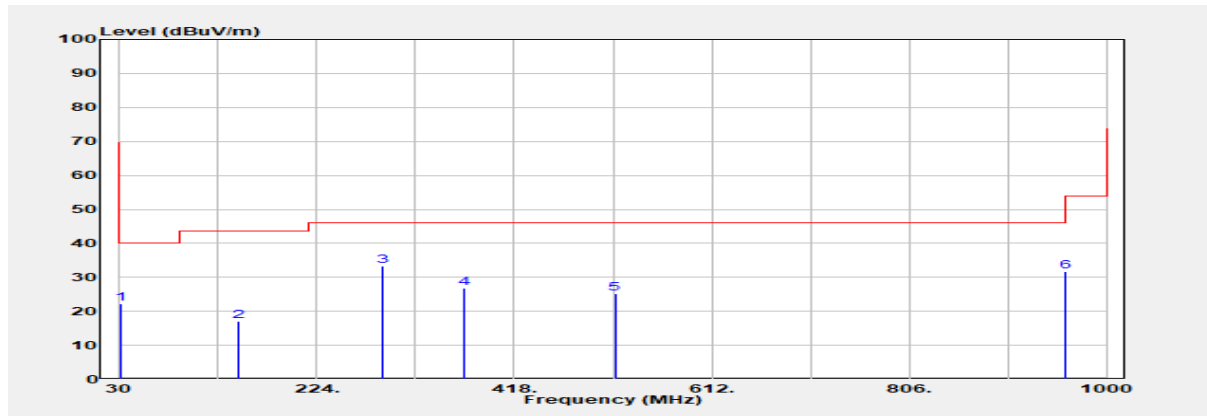
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony 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
30.970	Peak	40.87	-18.74	22.13	40.00	-17.87
147.370	Peak	33.09	-16.03	17.06	43.50	-26.44
288.990	Peak	49.22	-15.93	33.30	46.00	-12.70
369.500	Peak	40.70	-13.83	26.87	46.00	-19.13
516.940	Peak	35.72	-10.65	25.07	46.00	-20.93
960.230	Peak	35.54	-3.95	31.59	54.00	-22.41

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-09-25

Test Frequency :2442 MHz

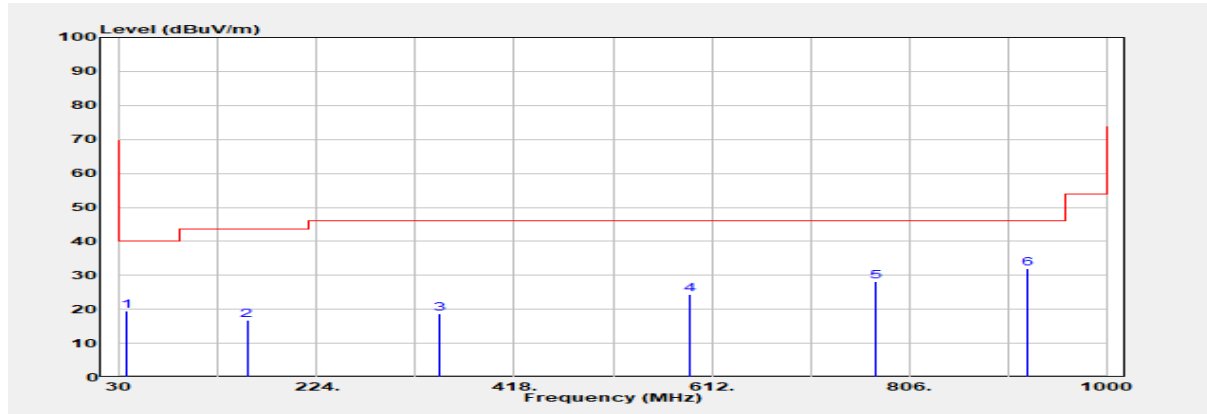
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.790	Peak	37.49	-18.06	19.44	40.00	-20.56
155.130	Peak	32.93	-16.07	16.86	43.50	-26.64
344.280	Peak	33.25	-14.65	18.59	46.00	-27.41
590.660	Peak	33.95	-9.48	24.47	46.00	-21.53
773.020	Peak	34.97	-6.67	28.31	46.00	-17.69
922.400	Peak	36.25	-4.35	31.90	46.00	-14.10

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台灣檢驗科技股份有限公司

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www.sgs.com.tw

Member of SGS Group

Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-09-25

Test Frequency :2442 MHz

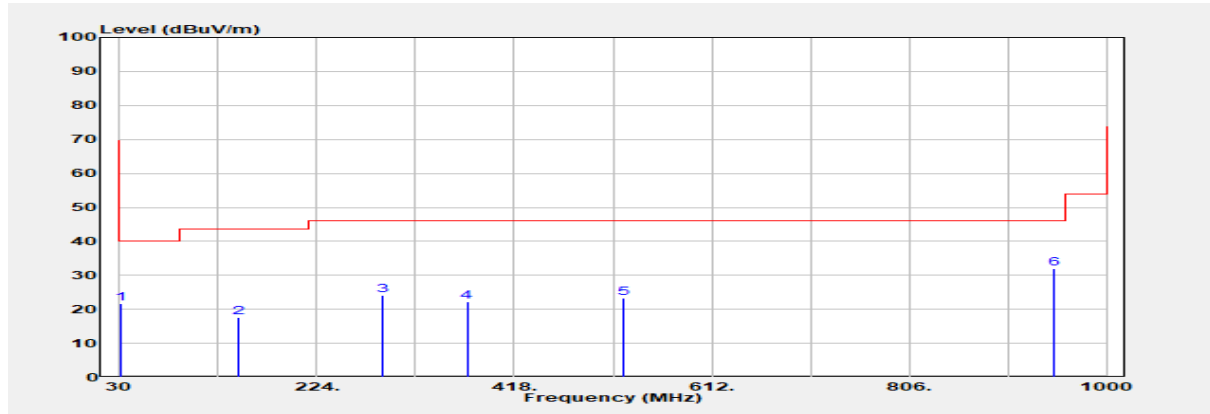
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.970	Peak	40.29	-18.74	21.55	40.00	-18.45
147.370	Peak	33.63	-16.03	17.59	43.50	-25.91
288.990	Peak	39.98	-15.93	24.05	46.00	-21.95
371.440	Peak	35.92	-13.76	22.16	46.00	-23.84
525.670	Peak	34.04	-10.60	23.43	46.00	-22.57
948.590	Peak	36.01	-4.13	31.88	46.00	-14.12

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 125k

Test Date :2024-09-25

Test Frequency :2442 MHz

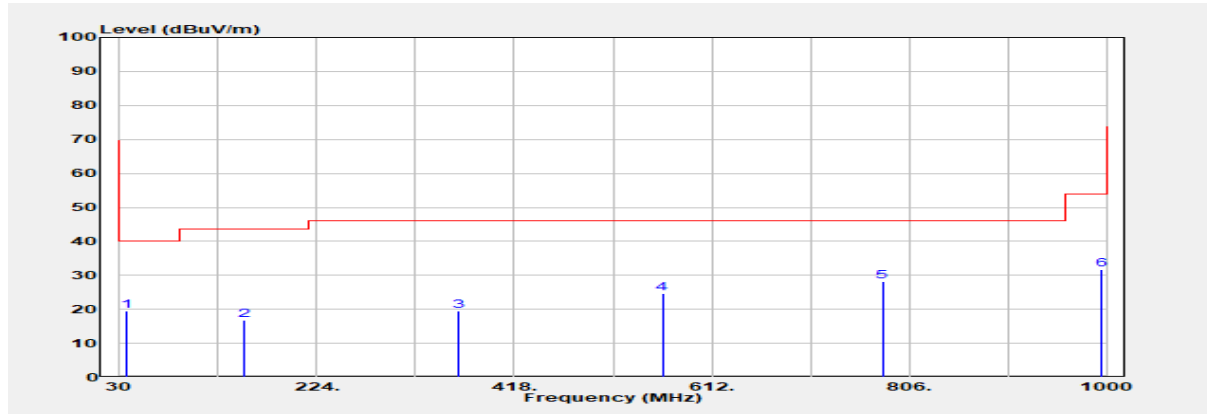
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.790	Peak	37.55	-18.06	19.50	40.00	-20.50
152.220	Peak	32.81	-16.00	16.81	43.50	-26.69
362.710	Peak	33.48	-14.10	19.38	46.00	-26.62
563.500	Peak	35.04	-10.50	24.53	46.00	-21.47
779.810	Peak	34.76	-6.69	28.07	46.00	-17.93
995.150	Peak	35.57	-3.89	31.68	54.00	-22.32

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 125k

Test Date :2024-09-25

Test Frequency :2442 MHz

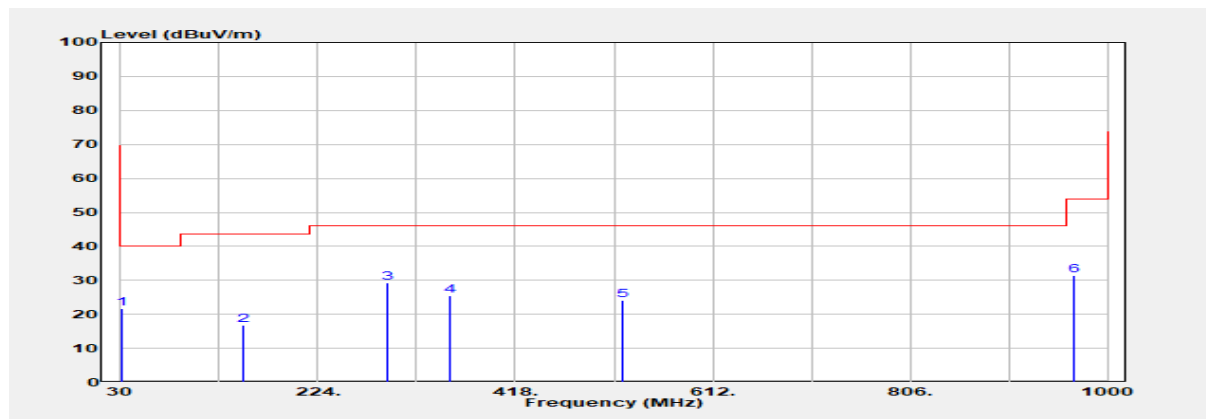
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.970	Peak	40.48	-18.74	21.74	40.00	-18.26
151.250	Peak	32.70	-15.92	16.78	43.50	-26.72
292.870	Peak	44.98	-15.82	29.15	46.00	-16.85
353.010	Peak	40.12	-14.57	25.56	46.00	-20.44
523.730	Peak	34.72	-10.64	24.09	46.00	-21.91
967.990	Peak	35.78	-4.22	31.56	54.00	-22.44

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 500k

Test Date :2024-09-25

Test Frequency :2442 MHz

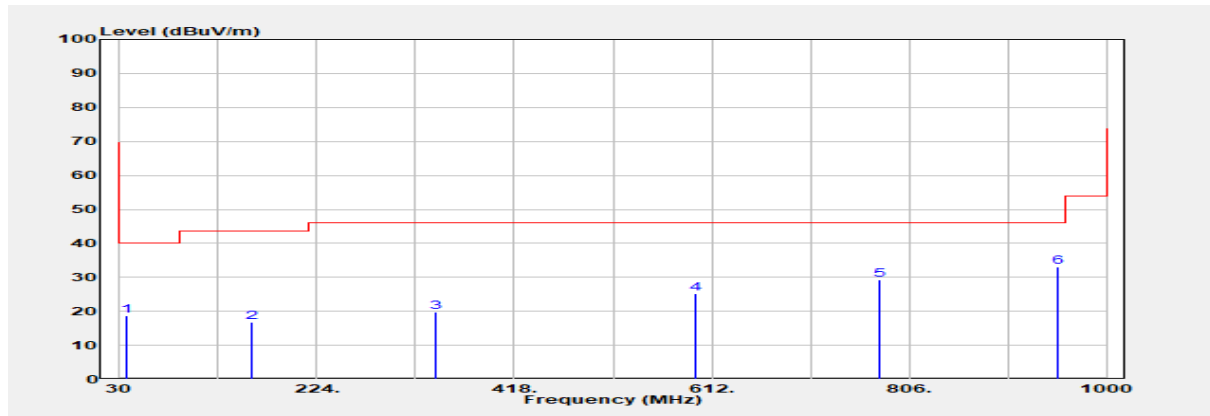
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.790	Peak	36.88	-18.06	18.82	40.00	-21.18
159.010	Peak	33.02	-16.29	16.73	43.50	-26.77
341.370	Peak	34.49	-14.62	19.87	46.00	-26.13
596.480	Peak	34.40	-9.30	25.11	46.00	-20.89
776.900	Peak	36.02	-6.66	29.36	46.00	-16.64
952.470	Peak	37.12	-4.10	33.02	46.00	-12.98

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 500k

Test Date :2024-09-25

Test Frequency :2442 MHz

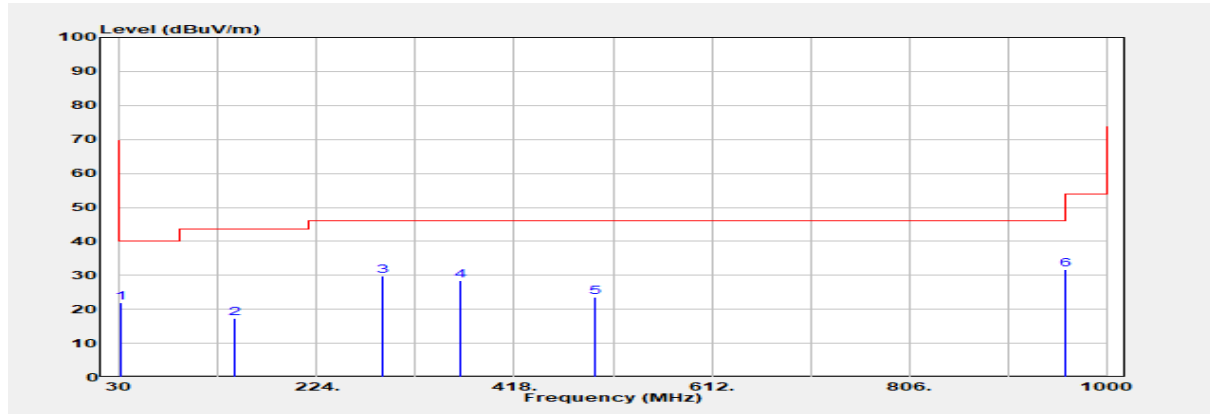
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.970	Peak	40.60	-18.74	21.87	40.00	-18.13
142.520	Peak	33.97	-16.64	17.33	43.50	-26.17
288.990	Peak	45.80	-15.93	29.88	46.00	-16.12
364.650	Peak	42.46	-14.02	28.44	46.00	-17.56
496.570	Peak	34.99	-11.47	23.52	46.00	-22.48
960.230	Peak	35.75	-3.95	31.80	54.00	-22.20

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-09-25

Test Frequency :2402 MHz

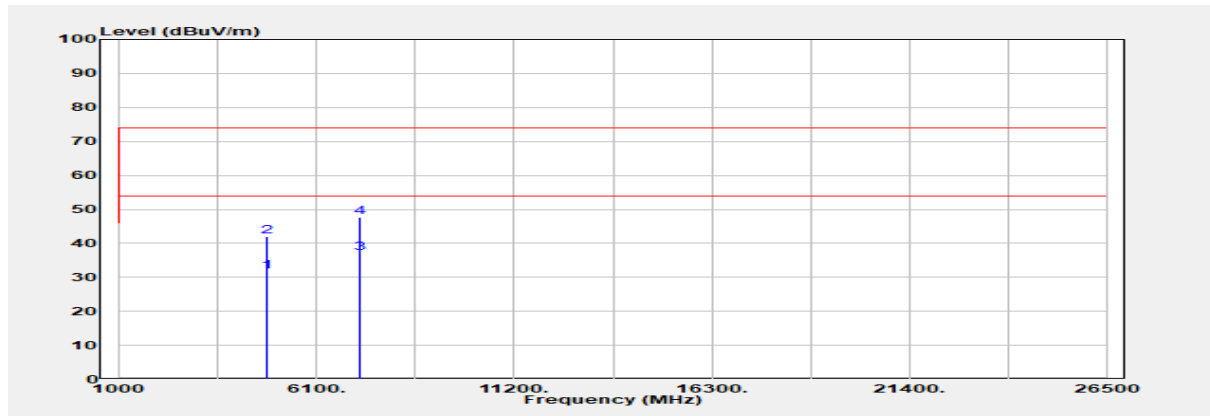
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony 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
4804.000	Average	30.51	1.17	31.67	54.00	-22.33
4804.000	Peak	40.96	1.17	42.12	74.00	-31.88
7206.000	Average	29.44	7.83	37.26	54.00	-16.74
7206.000	Peak	39.78	7.83	47.60	74.00	-26.40

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-09-25

Test Frequency :2402 MHz

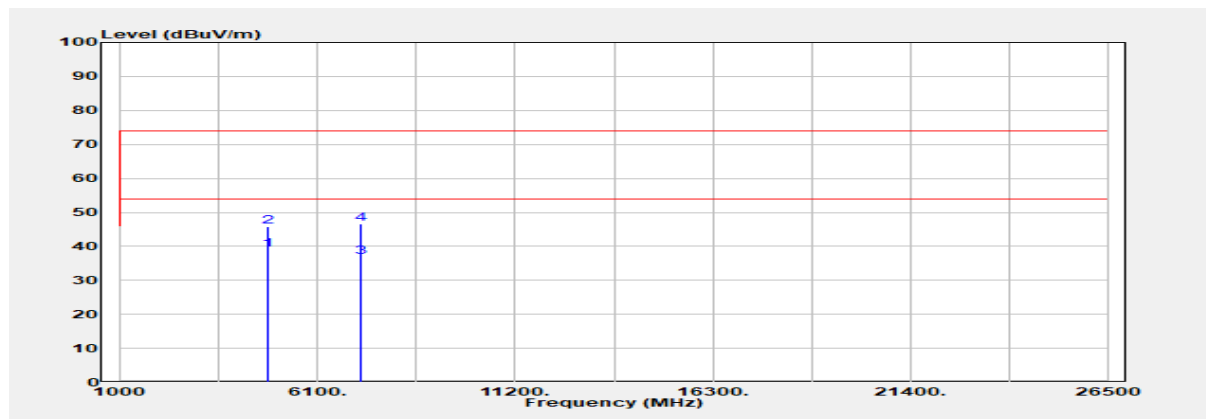
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.000	Average	37.89	1.17	39.06	54.00	-14.94
4804.000	Peak	44.57	1.17	45.74	74.00	-28.26
7206.000	Average	29.05	7.83	36.88	54.00	-17.12
7206.000	Peak	38.76	7.83	46.59	74.00	-27.41

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-09-25

Test Frequency :2442 MHz

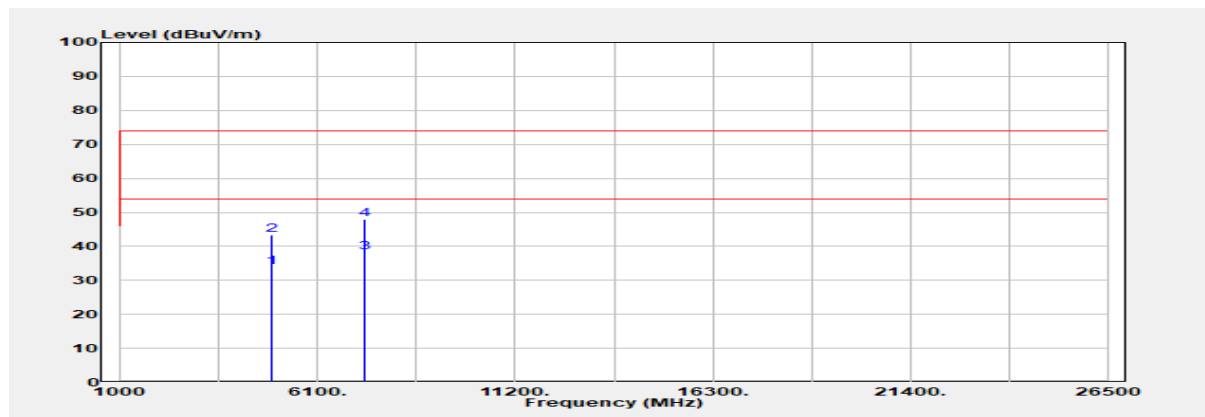
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4884.000	Average	32.81	0.97	33.78	54.00	-20.22
4884.000	Peak	42.45	0.97	43.42	74.00	-30.58
7326.000	Average	29.60	8.72	38.32	54.00	-15.68
7326.000	Peak	39.21	8.72	47.94	74.00	-26.06

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-09-25

Test Frequency :2442 MHz

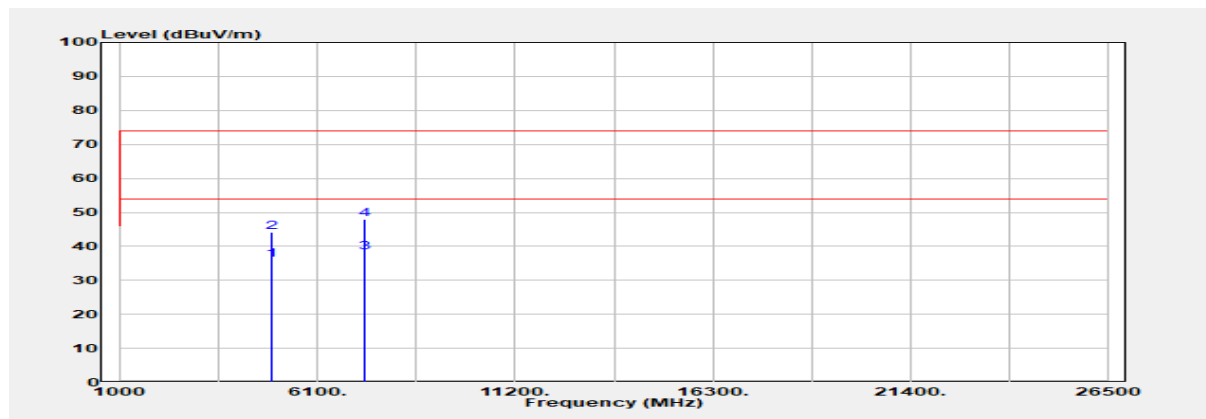
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony 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
4884.000	Average	35.01	0.97	35.98	54.00	-18.02
4884.000	Peak	43.31	0.97	44.28	74.00	-29.72
7326.000	Average	29.41	8.72	38.13	54.00	-15.87
7326.000	Peak	39.19	8.72	47.91	74.00	-26.09

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-09-25

Test Frequency :2480 MHz

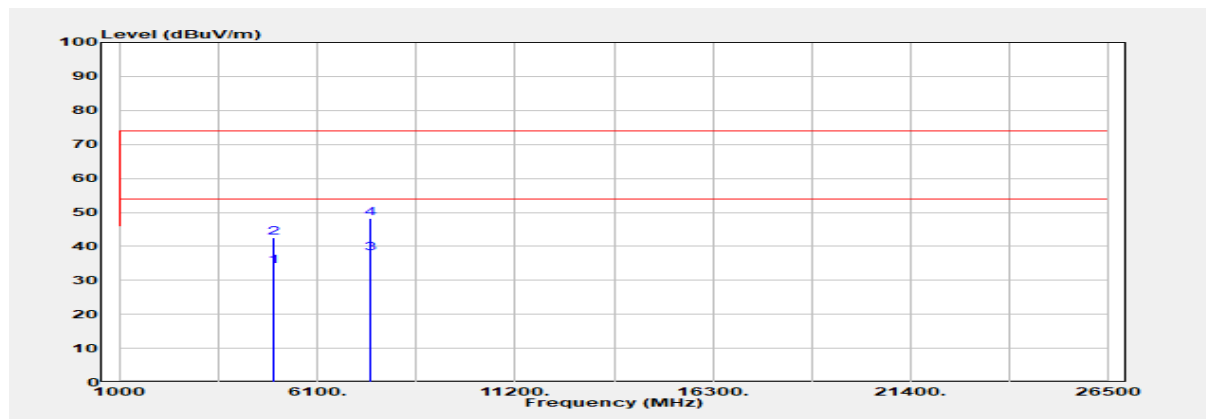
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony 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
4960.000	Average	32.40	1.85	34.25	54.00	-19.75
4960.000	Peak	40.71	1.85	42.56	74.00	-31.44
7440.000	Average	28.49	9.58	38.07	54.00	-15.93
7440.000	Peak	38.65	9.58	48.23	74.00	-25.77

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 1M

Test Date :2024-09-25

Test Frequency :2480 MHz

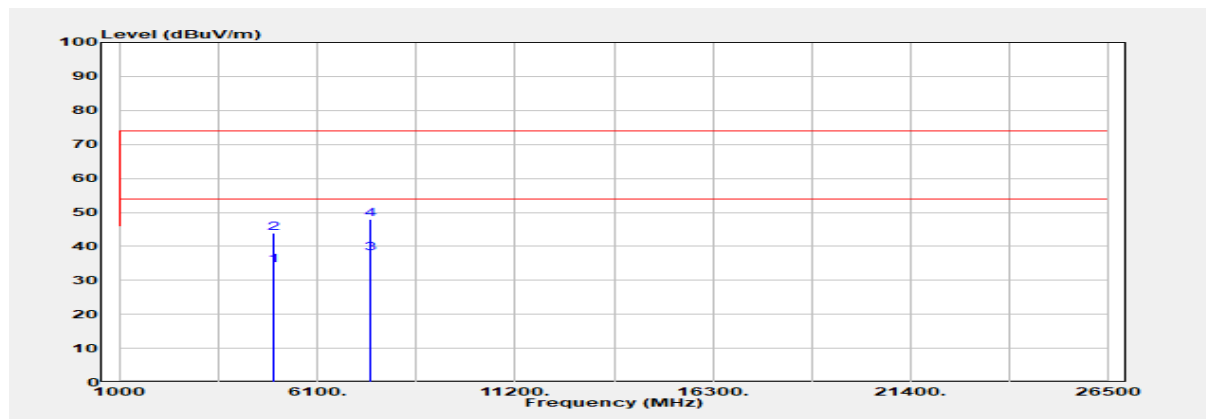
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony 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
4960.000	Average	32.65	1.85	34.49	54.00	-19.51
4960.000	Peak	41.99	1.85	43.83	74.00	-30.17
7440.000	Average	28.35	9.58	37.93	54.00	-16.07
7440.000	Peak	38.41	9.58	47.99	74.00	-26.01

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-09-25

Test Frequency :2402 MHz

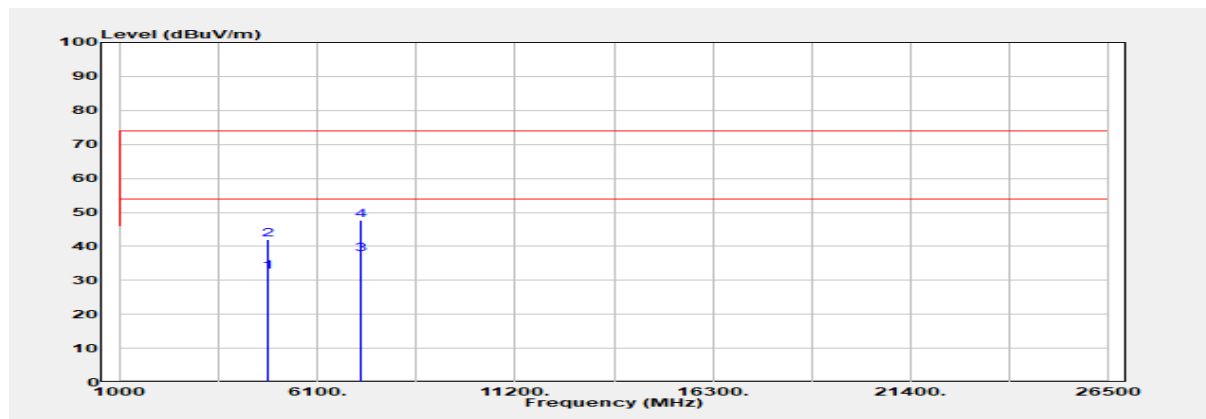
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony 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
4804.000	Average	31.42	1.17	32.59	54.00	-21.41
4804.000	Peak	40.76	1.17	41.93	74.00	-32.08
7206.000	Average	29.86	7.83	37.68	54.00	-16.32
7206.000	Peak	39.78	7.83	47.60	74.00	-26.40

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-09-25

Test Frequency :2402 MHz

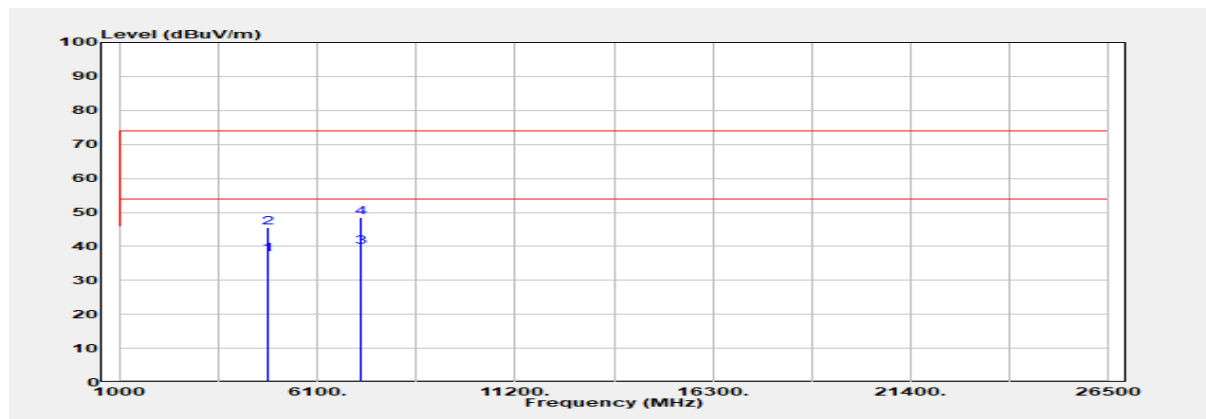
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony 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
4804.000	Average	36.44	1.17	37.61	54.00	-16.39
4804.000	Peak	44.36	1.17	45.53	74.00	-28.47
7206.000	Average	32.09	7.83	39.92	54.00	-14.08
7206.000	Peak	40.72	7.83	48.55	74.00	-25.45

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-09-25

Test Frequency :2442 MHz

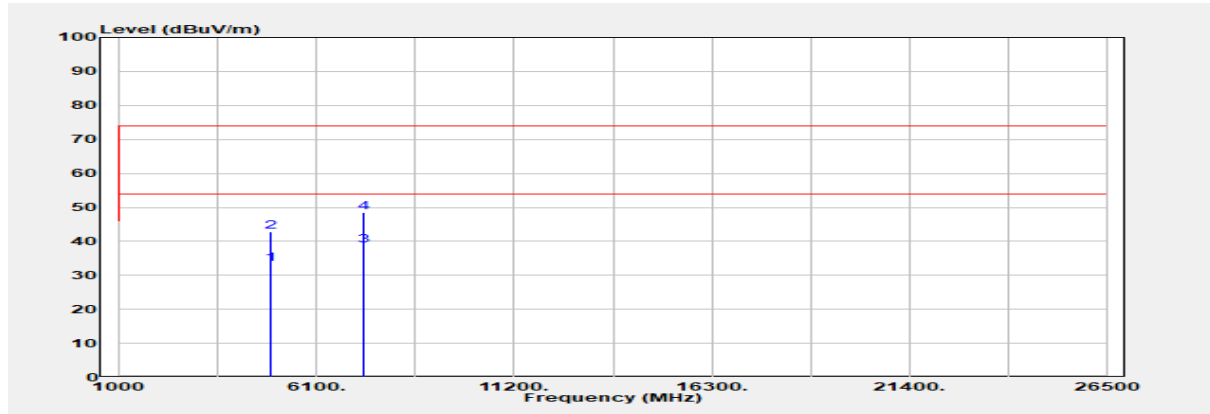
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony 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
4884.000	Average	32.36	0.97	33.33	54.00	-20.67
4884.000	Peak	41.72	0.97	42.69	74.00	-31.31
7326.000	Average	30.04	8.72	38.76	54.00	-15.24
7326.000	Peak	39.82	8.72	48.55	74.00	-25.45

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Member of SGS Group

Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-09-25

Test Frequency :2442 MHz

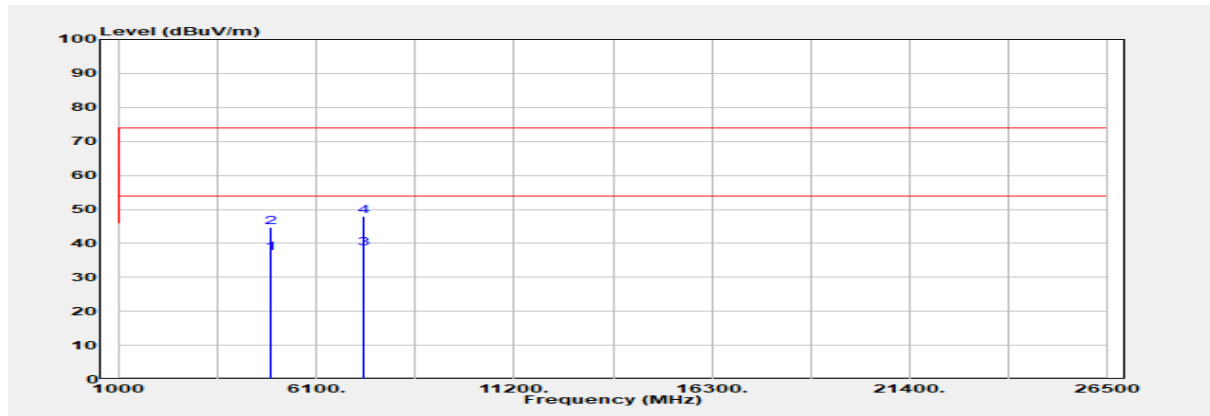
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony 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
4884.000	Average	36.16	0.97	37.13	54.00	-16.87
4884.000	Peak	43.72	0.97	44.69	74.00	-29.31
7326.000	Average	29.79	8.72	38.52	54.00	-15.48
7326.000	Peak	39.33	8.72	48.05	74.00	-25.95

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-09-25

Test Frequency :2480 MHz

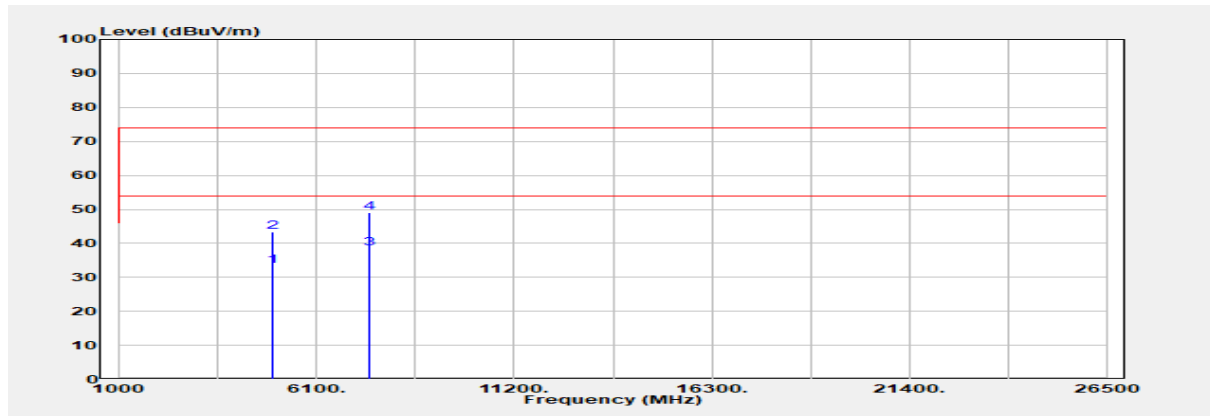
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony 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
4960.000	Average	31.52	1.85	33.37	54.00	-20.63
4960.000	Peak	41.64	1.85	43.49	74.00	-30.51
7440.000	Average	28.83	9.58	38.41	54.00	-15.59
7440.000	Peak	39.36	9.58	48.94	74.00	-25.06

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 2M

Test Date :2024-09-25

Test Frequency :2480 MHz

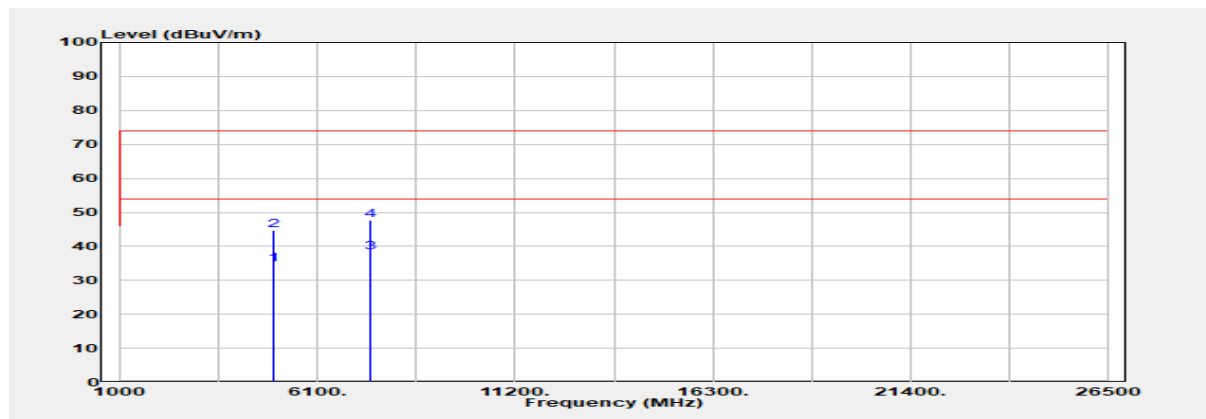
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony 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
4960.000	Average	32.88	1.85	34.73	54.00	-19.27
4960.000	Peak	42.99	1.85	44.84	74.00	-29.16
7440.000	Average	28.70	9.58	38.28	54.00	-15.72
7440.000	Peak	38.10	9.58	47.69	74.00	-26.31

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 125k

Test Date :2024-09-25

Test Frequency :2402 MHz

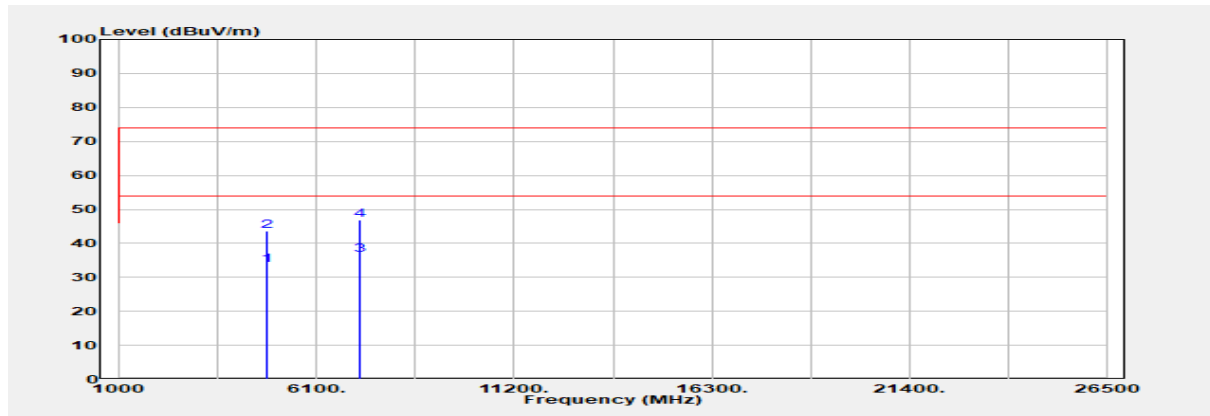
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony 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
4804.000	Average	32.51	1.17	33.67	54.00	-20.33
4804.000	Peak	42.37	1.17	43.54	74.00	-30.46
7206.000	Average	28.77	7.83	36.60	54.00	-17.40
7206.000	Peak	39.11	7.83	46.94	74.00	-27.06

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 125k

Test Date :2024-09-25

Test Frequency :2402 MHz

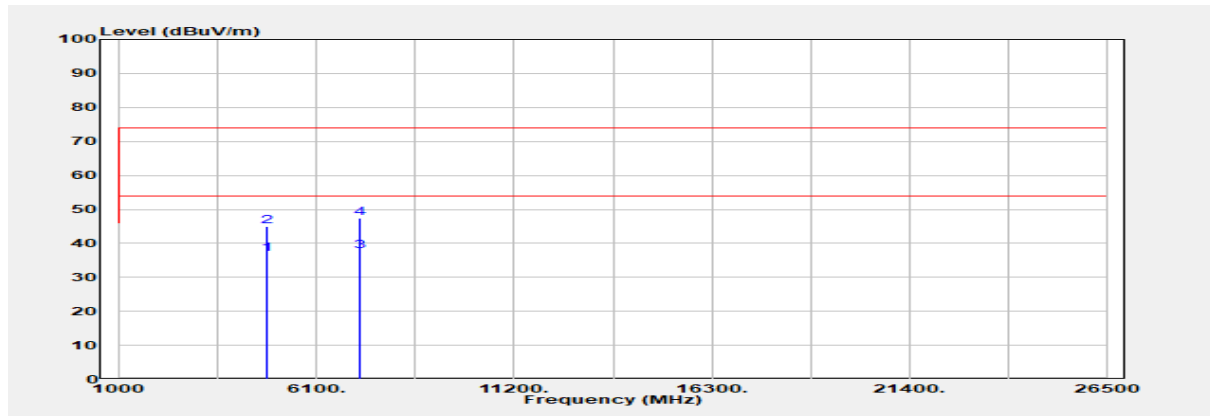
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony 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
4804.000	Average	35.67	1.17	36.84	54.00	-17.16
4804.000	Peak	43.73	1.17	44.89	74.00	-29.11
7206.000	Average	29.94	7.83	37.77	54.00	-16.23
7206.000	Peak	39.49	7.83	47.32	74.00	-26.68

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 125k

Test Date :2024-09-25

Test Frequency :2442 MHz

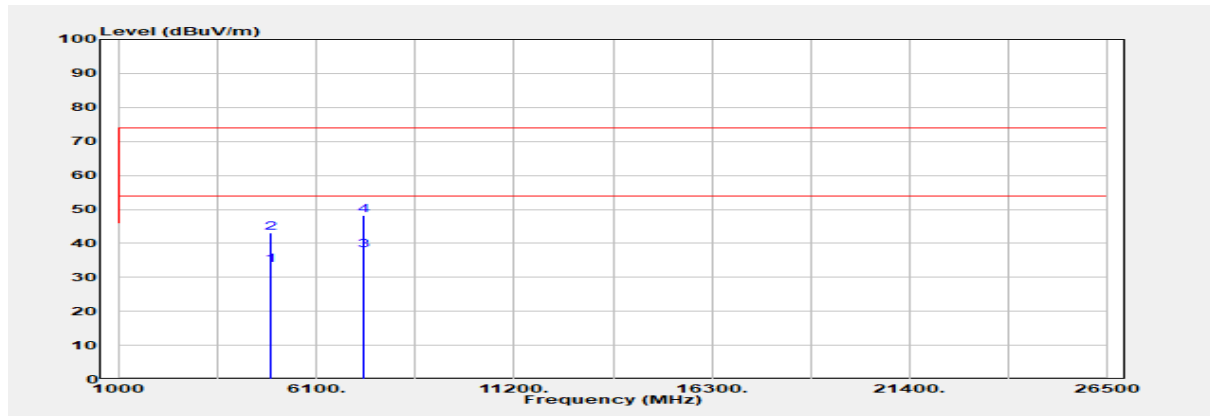
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony 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
4884.000	Average	32.72	0.97	33.68	54.00	-20.32
4884.000	Peak	42.03	0.97	43.00	74.00	-31.00
7326.000	Average	29.10	8.72	37.82	54.00	-16.18
7326.000	Peak	39.60	8.72	48.33	74.00	-25.67

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 125k

Test Date :2024-09-25

Test Frequency :2442 MHz

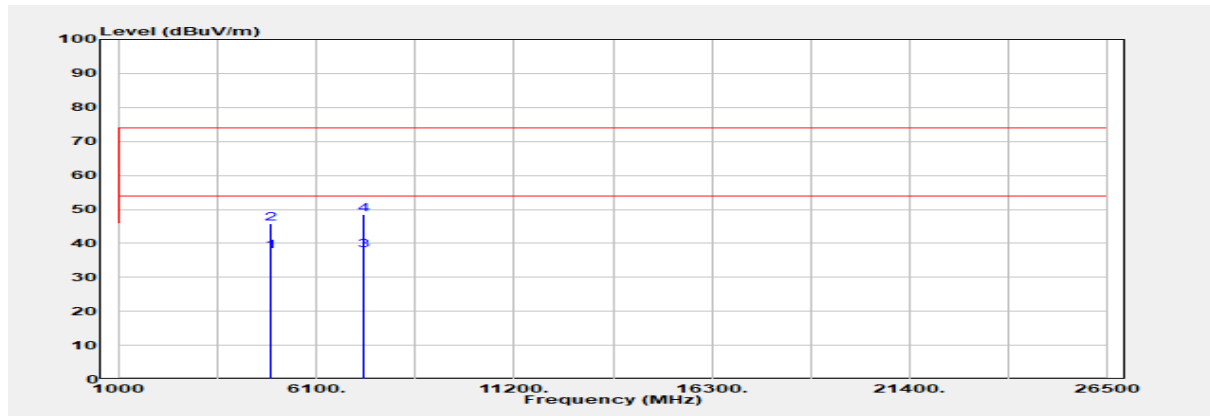
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony 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
4884.000	Average	36.81	0.97	37.77	54.00	-16.23
4884.000	Peak	44.81	0.97	45.78	74.00	-28.22
7326.000	Average	29.10	8.72	37.83	54.00	-16.17
7326.000	Peak	39.89	8.72	48.61	74.00	-25.39

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 125k

Test Date :2024-09-25

Test Frequency :2480 MHz

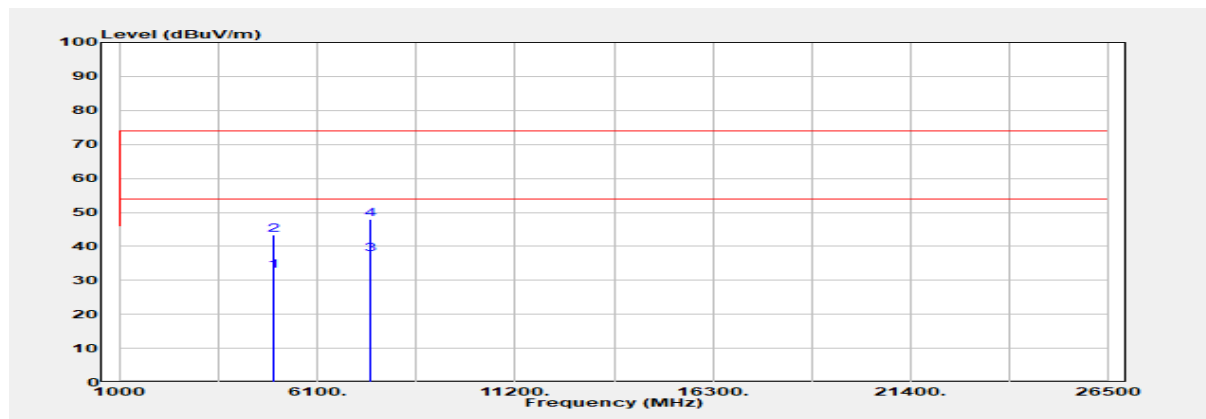
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony 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
4960.000	Average	30.95	1.85	32.80	54.00	-21.20
4960.000	Peak	41.50	1.85	43.34	74.00	-30.66
7440.000	Average	27.99	9.58	37.57	54.00	-16.43
7440.000	Peak	38.48	9.58	48.07	74.00	-25.93

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 125k

Test Date :2024-09-25

Test Frequency :2480 MHz

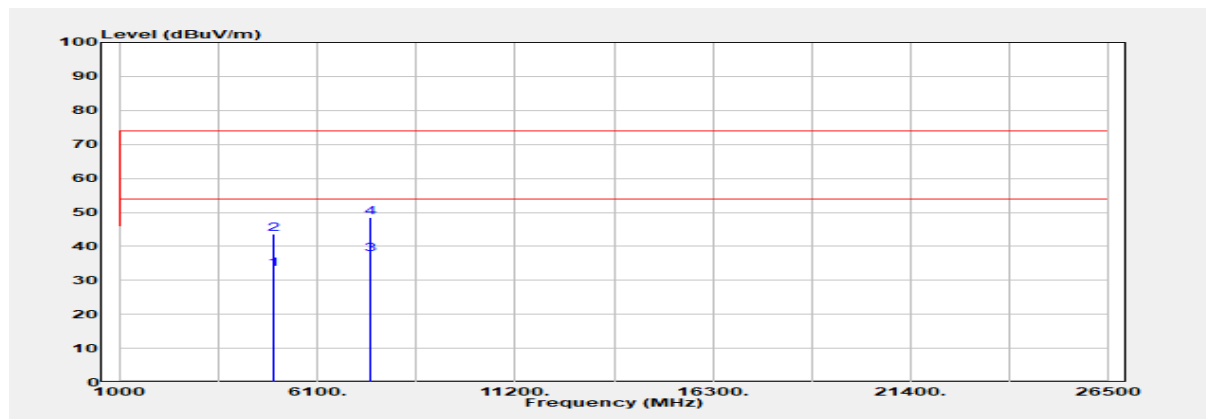
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4960.000	Average	31.49	1.85	33.34	54.00	-20.66
4960.000	Peak	41.84	1.85	43.69	74.00	-30.31
7440.000	Average	27.95	9.58	37.54	54.00	-16.46
7440.000	Peak	38.84	9.58	48.42	74.00	-25.58

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 500k

Test Date :2024-09-25

Test Frequency :2402 MHz

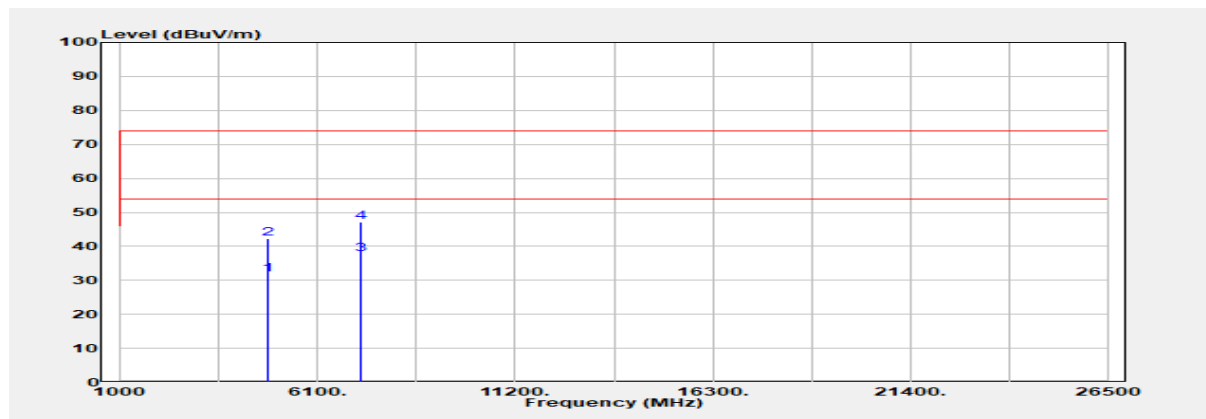
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4804.000	Average	30.54	1.17	31.71	54.00	-22.29
4804.000	Peak	41.06	1.17	42.23	74.00	-31.77
7206.000	Average	29.93	7.83	37.75	54.00	-16.25
7206.000	Peak	39.45	7.83	47.27	74.00	-26.73

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 500k

Test Date :2024-09-25

Test Frequency :2402 MHz

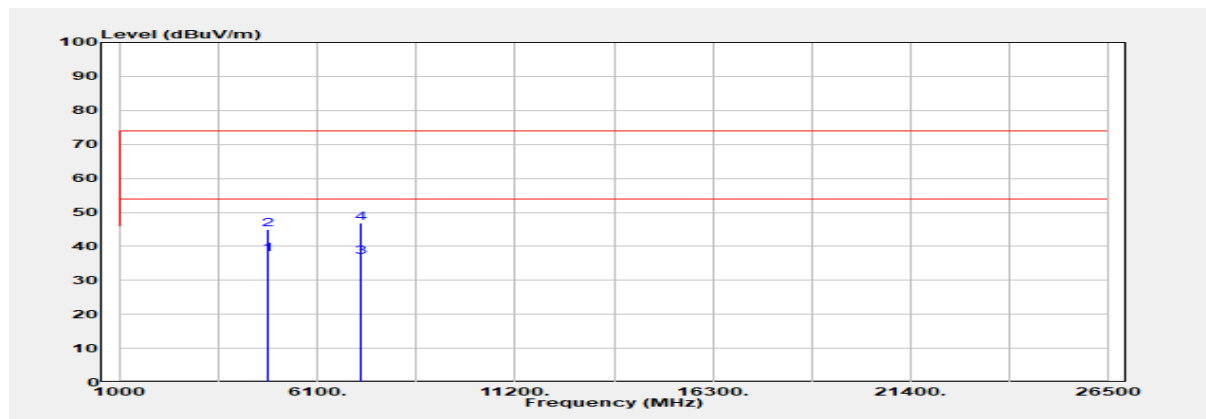
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony 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
4804.000	Average	36.52	1.17	37.69	54.00	-16.31
4804.000	Peak	43.95	1.17	45.11	74.00	-28.89
7206.000	Average	28.93	7.83	36.76	54.00	-17.24
7206.000	Peak	39.13	7.83	46.96	74.00	-27.04

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 500k

Test Date :2024-09-25

Test Frequency :2442 MHz

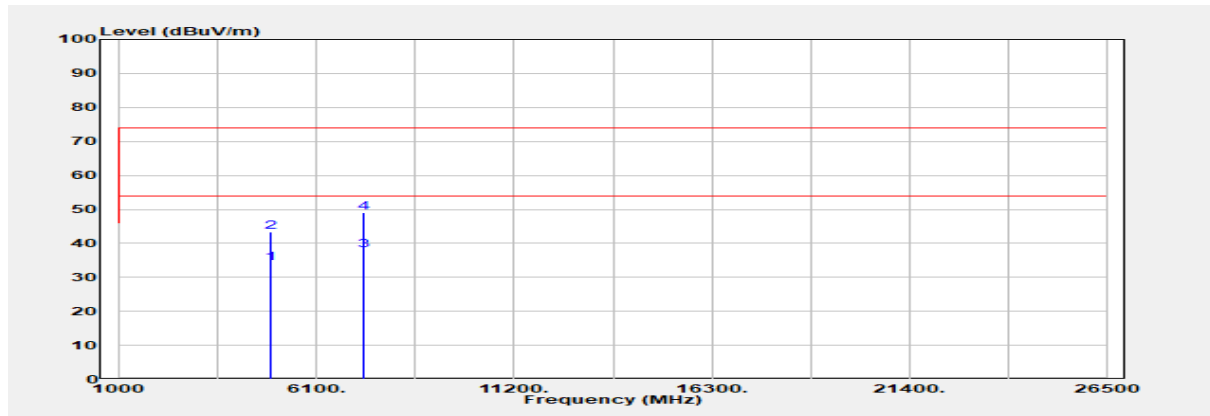
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony 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
4884.000	Average	33.04	0.97	34.01	54.00	-19.99
4884.000	Peak	42.36	0.97	43.33	74.00	-30.67
7326.000	Average	29.31	8.72	38.03	54.00	-15.97
7326.000	Peak	40.29	8.72	49.02	74.00	-24.98

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 500k

Test Date :2024-09-25

Test Frequency :2442 MHz

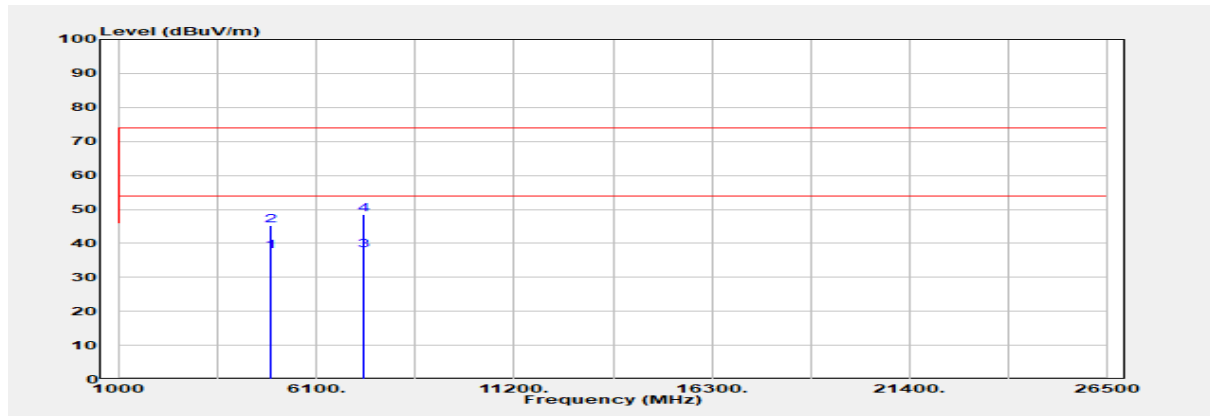
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony 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
4884.000	Average	36.58	0.97	37.55	54.00	-16.45
4884.000	Peak	44.24	0.97	45.21	74.00	-28.79
7326.000	Average	29.22	8.72	37.94	54.00	-16.06
7326.000	Peak	39.86	8.72	48.58	74.00	-25.42

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 500k

Test Date :2024-09-25

Test Frequency :2480 MHz

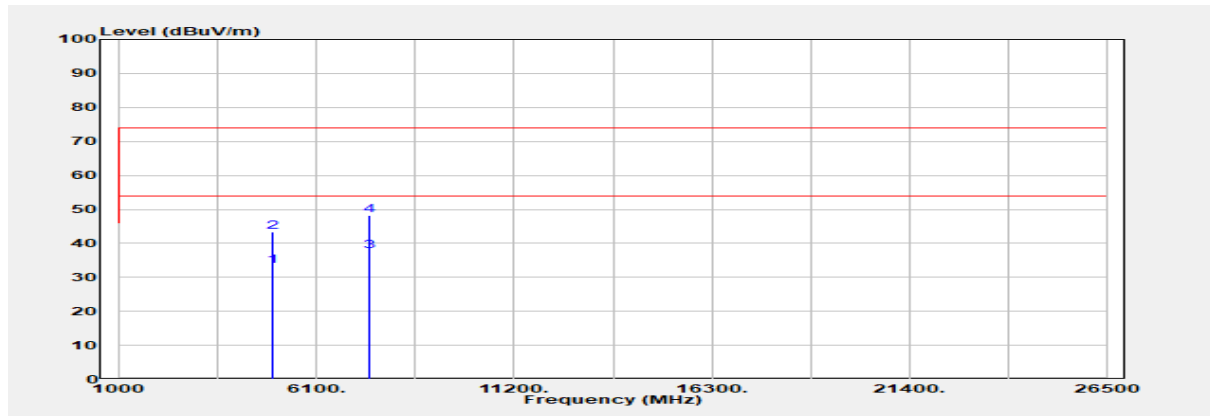
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Pony 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
4960.000	Average	31.62	1.85	33.46	54.00	-20.54
4960.000	Peak	41.61	1.85	43.46	74.00	-30.54
7440.000	Average	27.96	9.58	37.54	54.00	-16.46
7440.000	Peak	38.74	9.58	48.33	74.00	-25.67

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Report Number :TERF2409002766E2

Test Site :SAC D

Operation Mode :BLE 500k

Test Date :2024-09-25

Test Frequency :2480 MHz

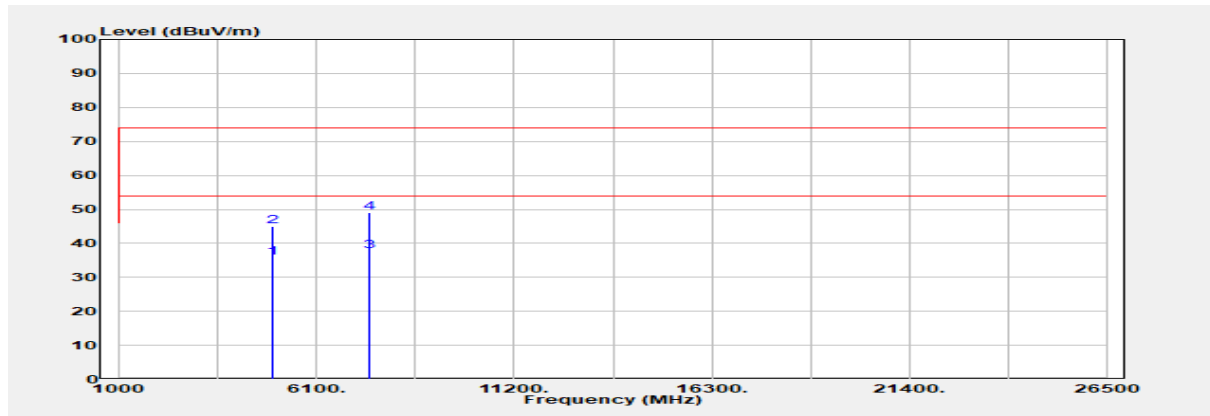
Temp./Humi. :22.1°C/59%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Pony Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.000	Average	33.99	1.85	35.84	54.00	-18.16
4960.000	Peak	43.24	1.85	45.08	74.00	-28.92
7440.000	Average	28.06	9.58	37.65	54.00	-16.35
7440.000	Peak	39.39	9.58	48.97	74.00	-25.03

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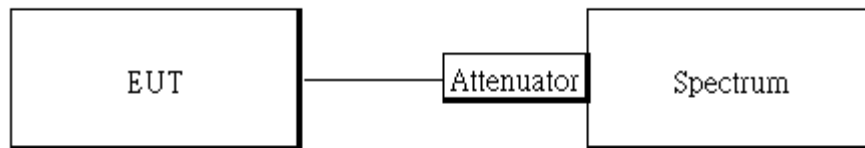
12 POWER SPECTRAL DENSITY

12.1 Standard Applicable:

Per Part 15.247 (e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

12.2 Test Setup



12.3 Measurement Procedure:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz. & the VBW = 10 kHz
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

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12.4 Measurement Result:

BLE 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-9.08	8	PASS
2442	-5.93	8	PASS
2480	-7.74	8	PASS

***Note:**

1.cable loss as 10.8dB that offsets in the spectrum

BLE 2M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-10.57	8	PASS
2442	-10.39	8	PASS
2480	-10.32	8	PASS

***Note:**

1.cable loss as 10.8dB that offsets in the spectrum

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BLE 125k mode(Payload S=8)

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	0.63	8	PASS
2442	0.97	8	PASS
2480	0.72	8	PASS

Note:*1.cable loss as 10.8dB that offsets in the spectrum**

BLE 500k mode(Payload S=2)

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	0.62	8	PASS
2442	0.95	8	PASS
2480	0.76	8	PASS

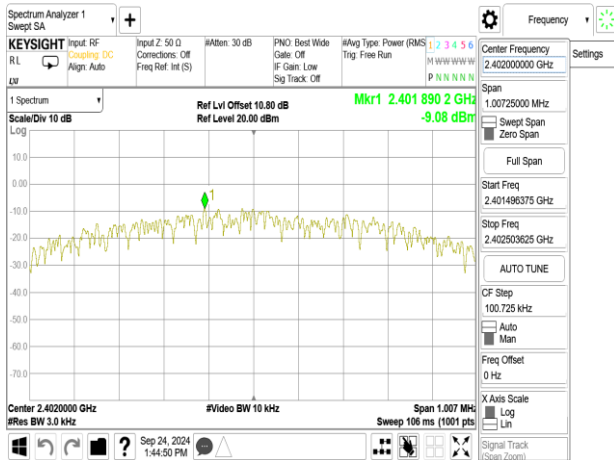
Note:*1.cable loss as 10.8dB that offsets in the spectrum**

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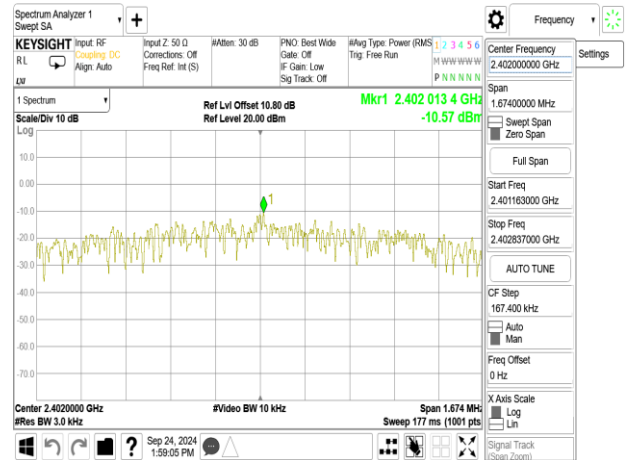
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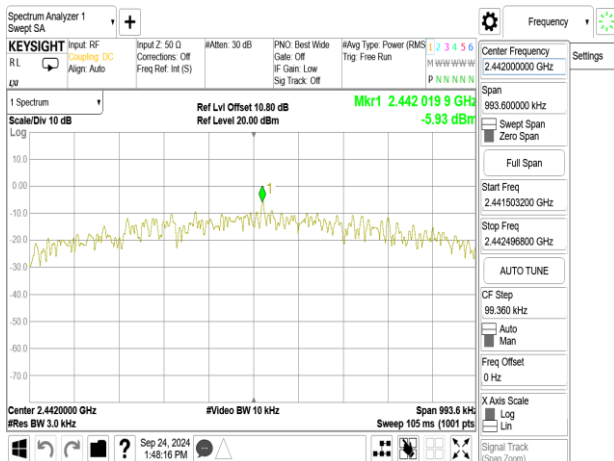
PSD_BLE 1M_LowCH00-2402MHz



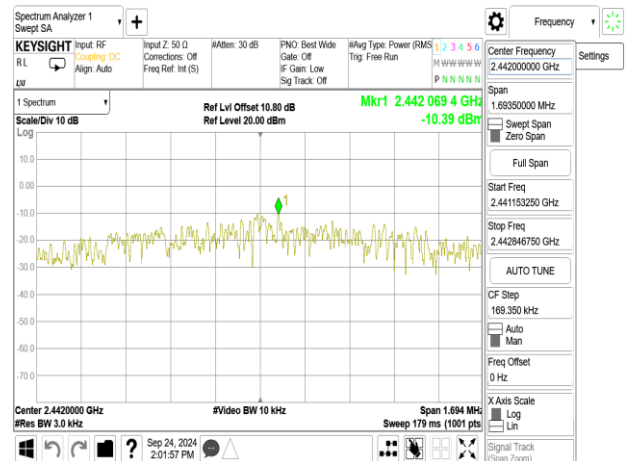
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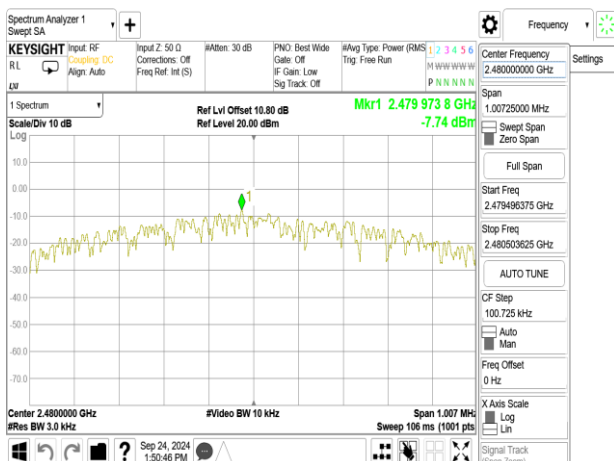
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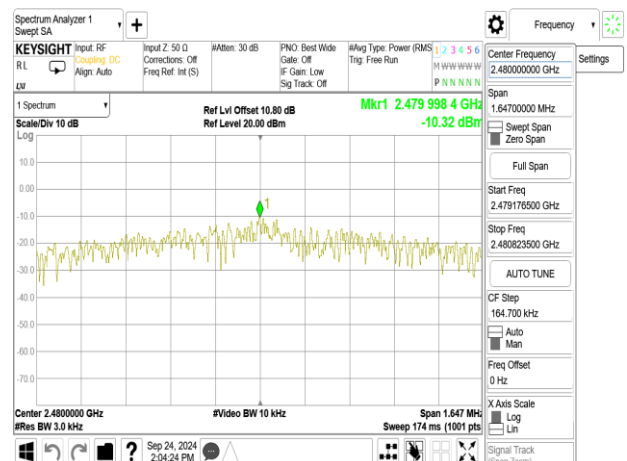
PSD_BLE 2M_MidCH20-2442MHz



PSD_BLE 1M_HighCH39-2480MHz



PSD_BLE 2M_HighCH39-2480MHz

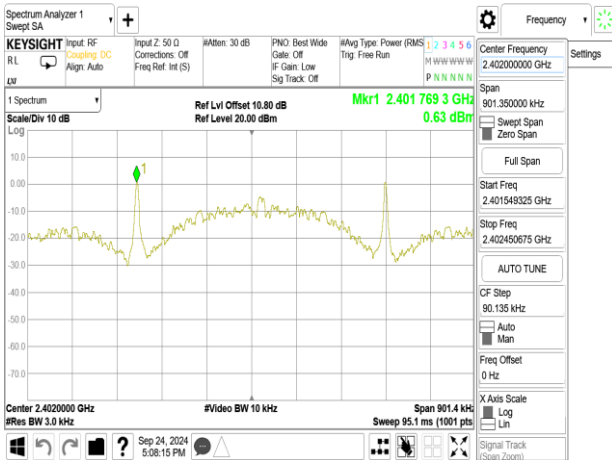


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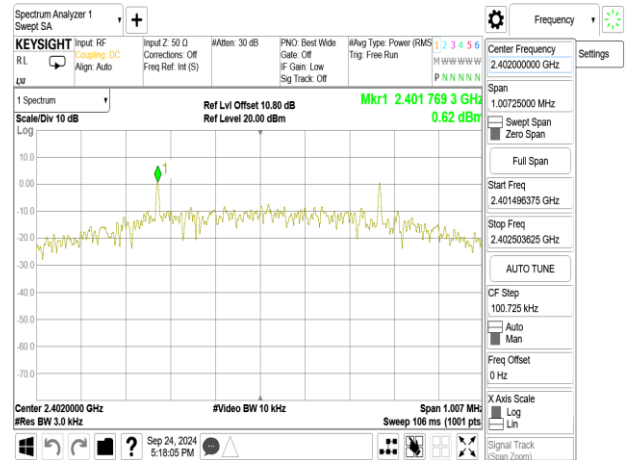
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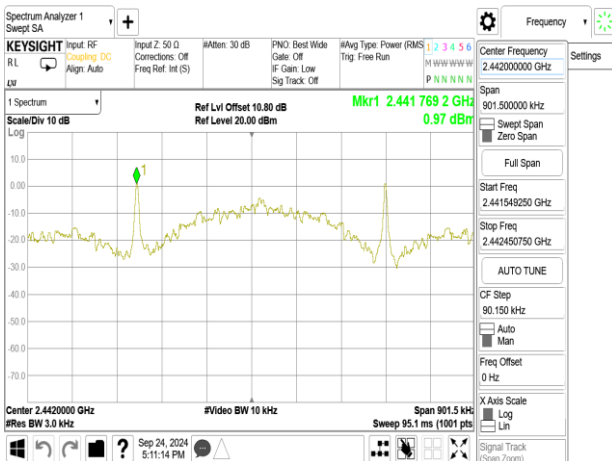
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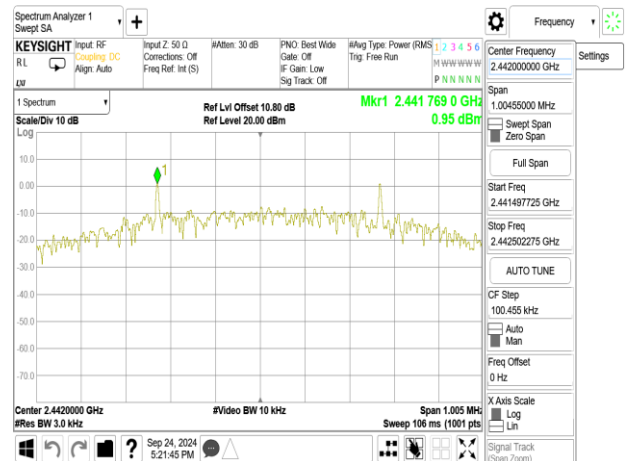
PSD_BLE 500k_LowCH00-2402MHz



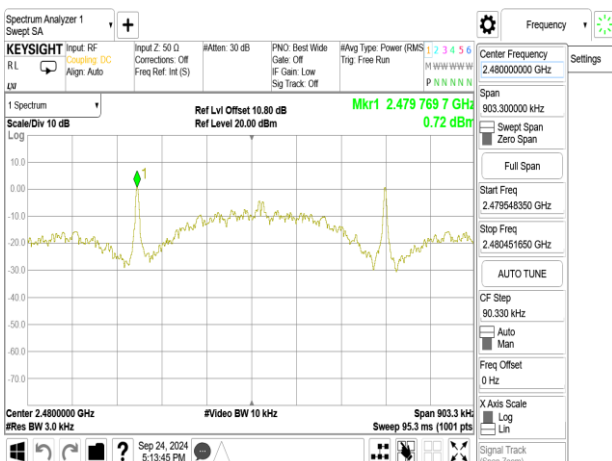
PSD_BLE 125k_MidCH20-2442MHz



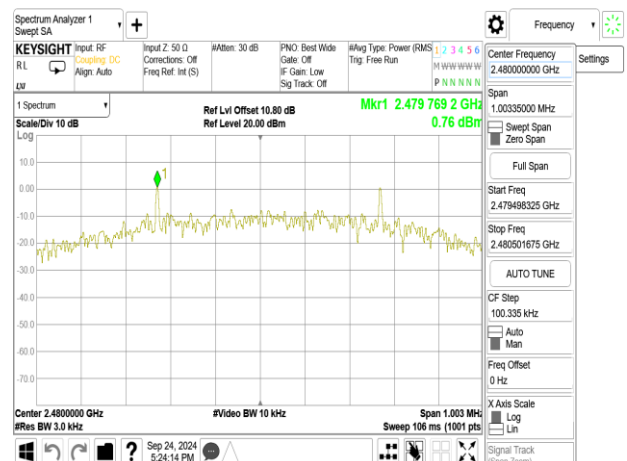
PSD_BLE 500k_MidCH20-2442MHz



PSD_BLE 125k_HighCH39-2480MHz



PSD_BLE 500k_HighCH39-2480MHz



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13 ANTENNA REQUIREMENT

13.1 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.

13.2 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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