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Band77-Part27 60MHz CP-OFDM SCS30kHz QPSK RB1\_1 Chain0 CH6560000

Keystream Spectrum Analyzer - Sweep SA

R F S G L SENSE-INT ALGIN AUTO [83:59-59:00 Jun 28, 2024]

enter Freq 20.0150000000 GHz PWD: Fast Trig: Free Run Avg Type: Log-Pwr TRACE [1] 1 5 6 MWWWWWW

IFGain=Low #Atten: 30 dB TYPE [1] 1 5 6 MWWWWWW

Ref Offset 17.4 dB Mkr3 38.106 4 GHz -18.09 dBm

Ref 30.000 dBm

dB/div 0.000 30.000 20.000 10.000 0.000 -10.000 -20.000 -30.000

log X1 3 2 1

Ref Offset 17.4 dB Mkr3 38.106 4 GHz -18.09 dBm

Ref 30.000 dBm

dB/div 0.000 30.000 20.000 10.000 0.000 -10.000 -20.000 -30.000

log X1 3 2 1

Center 20.02 GHz Span 39.97 GHz

Ref BW 1.0 MHz #VBW 3.0 MHz Sweep 66.67 ms (40001 pts)

CF ST 3.9970000000 Auto

Freq Off 0

Scale Ty Log

RF	MOS	TRC	SC1	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	3.8122 GHz	25.39 dBm			
2	N	1	f	7.6800 GHz	.33.25 dBm			
3	N	1	f	38.1064 GHz	.-18.09 dBm			
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STATUS

Band77-Part27\_70MHz\_CP\_OFDM\_SCS30kHz\_QPSK\_RB1\_1\_Chain0 CH649000

Keystream Spectrum Analyzer - Sweep SA

SENSE:INTL ALIGN: AUTO 03:45:42 PM June 26, 2024

Center Freq 02.015000000 GHz

PNL: Fast Trig: Free Run Avg Type: Log-Pwr

IFGain:Low #Atten: 30 dB

10 dB/div Mkr3 38.993 8 GHz

Ref Offset 17.4 dB #Res 30.00 dBm -17.73 dBm

10 dB/div Mkr3 38.993 8 GHz

Ref 30.00 dBm -17.73 dBm

Log

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-10.0

-20.0

-30.0

-40.0

-50.0

-60.0

Center 20.02 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 66.67 ms (40001 pts)

Span 39.97 GHz

1 N 1 f 3.702 2 GHz 24.61 dBm

2 N 1 f 7.470 2 GHz -33.93 dBm

3 N 1 f 38.993 8 GHz -17.73 dBm

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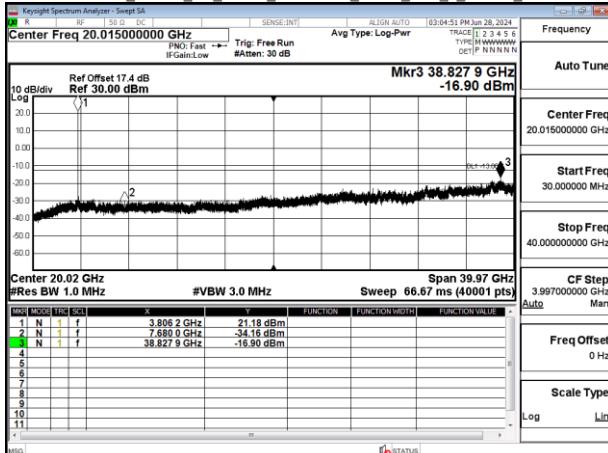
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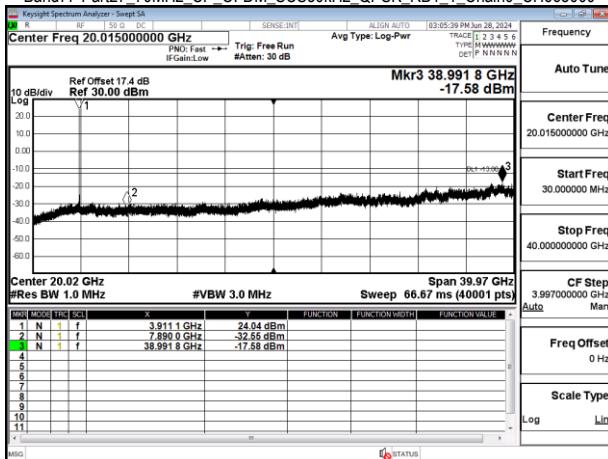
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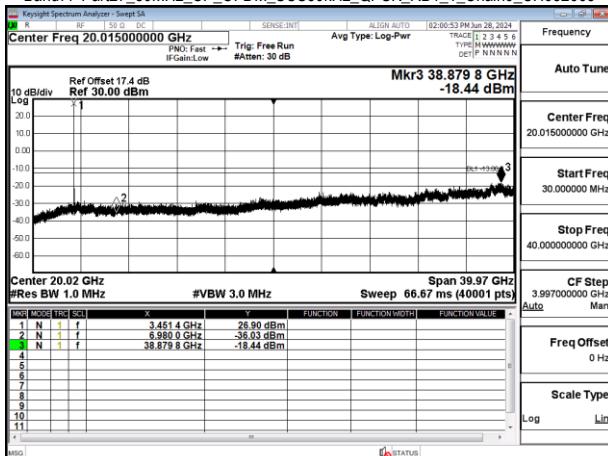
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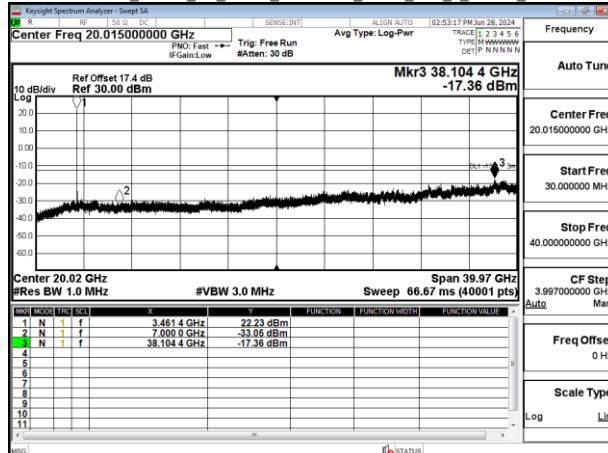
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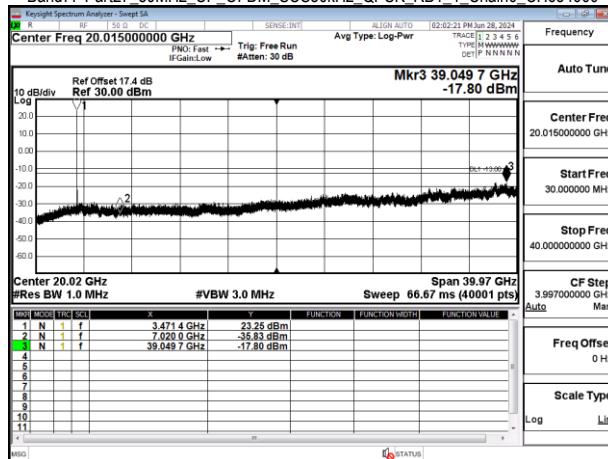
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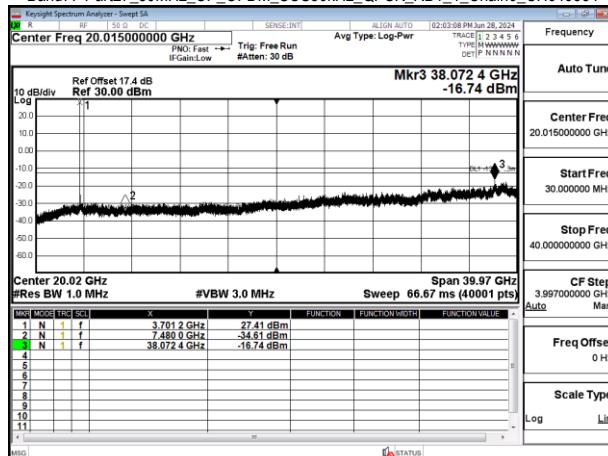
Band77-Part27\_80MHz\_C\_P\_OFDM\_SCS30kHz\_QPSK\_RB1\_1\_Chain0\_CH633334



Band77-Part27\_80MHz\_C\_P\_OFDM\_SCS30kHz\_QPSK\_RB1\_1\_Chain0\_CH634000



Band77-Part27\_80MHz\_C\_P\_OFDM\_SCS30kHz\_QPSK\_RB1\_1\_Chain0\_CH649334



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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

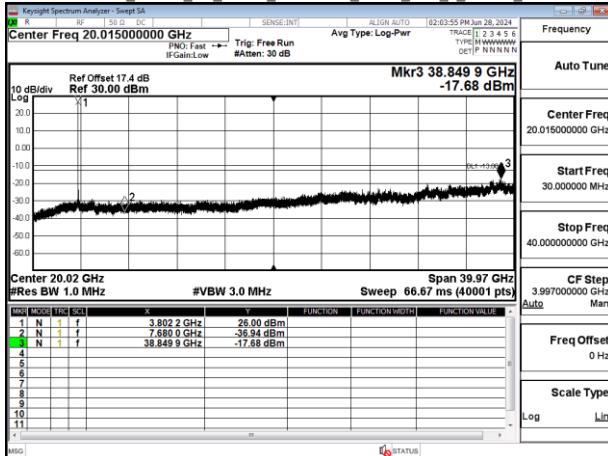
f (886-2) 2298-0488

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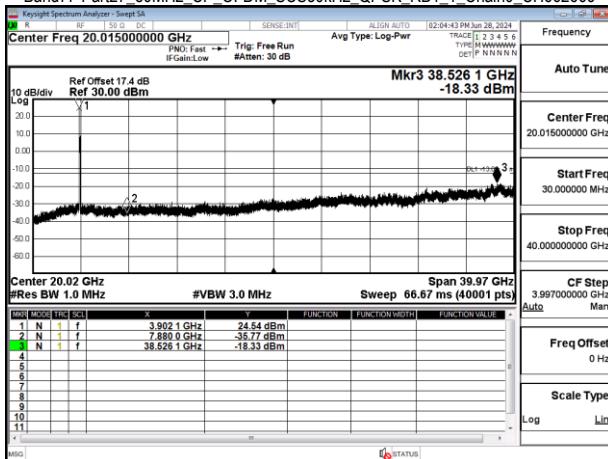
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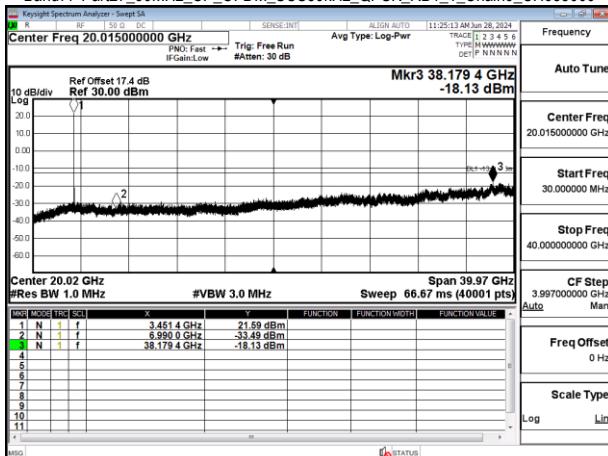
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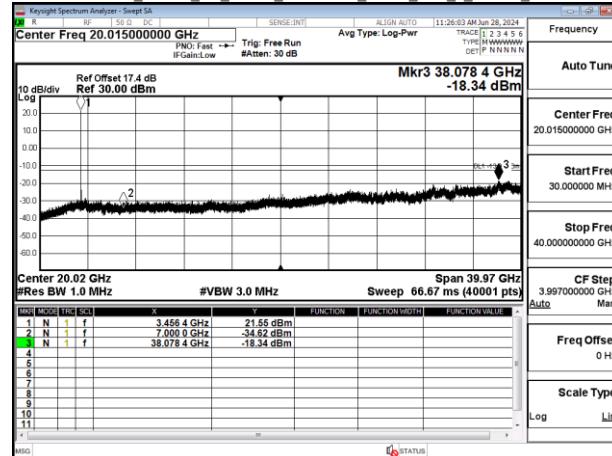
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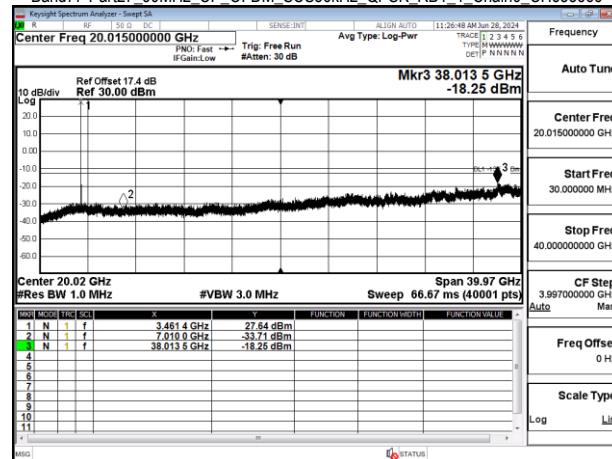
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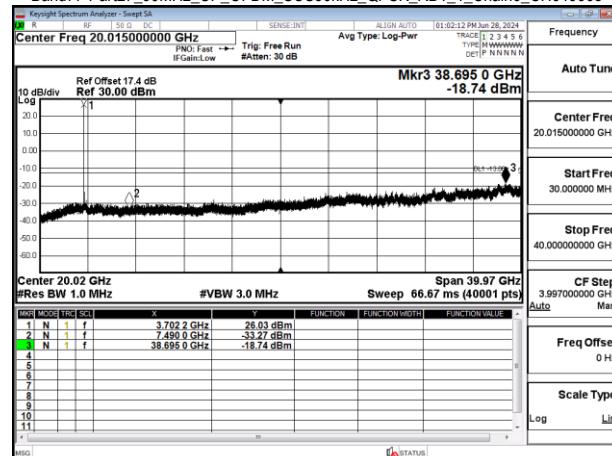
Band77-Part27\_90MHz\_CP\_OFDM\_SCS30kHz\_QPSK\_RB1\_1\_Chain0\_CH633334



Band77-Part27\_90MHz\_CP\_OFDM\_SCS30kHz\_QPSK\_RB1\_1\_Chain0\_CH633666



Band77-Part27\_90MHz\_CP\_OFDM\_SCS30kHz\_QPSK\_RB1\_1\_Chain0\_CH649668



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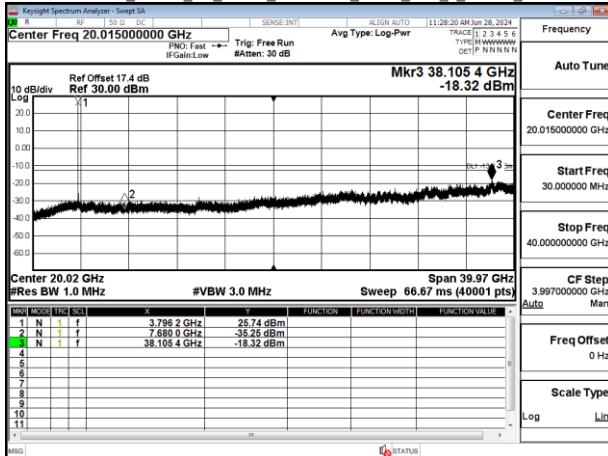
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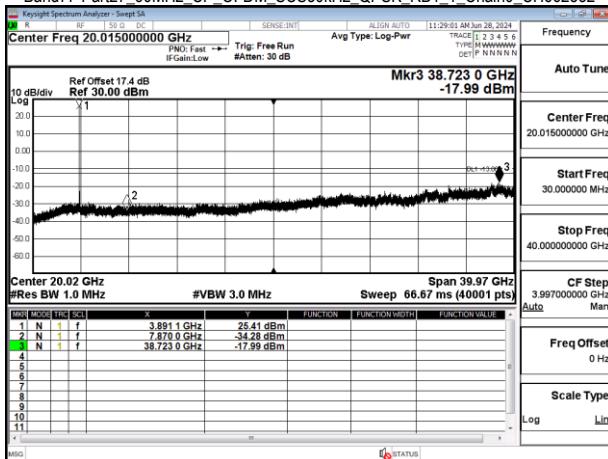
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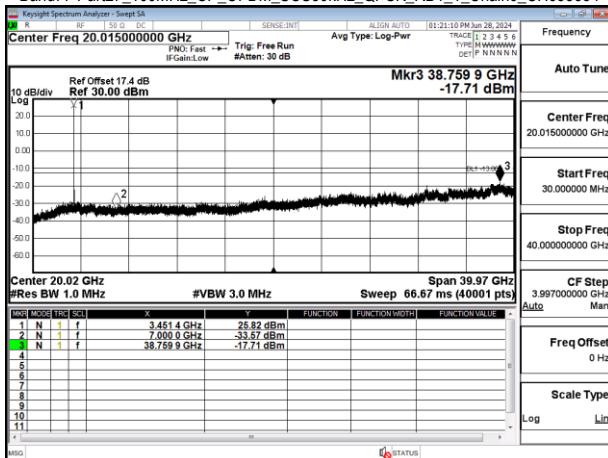
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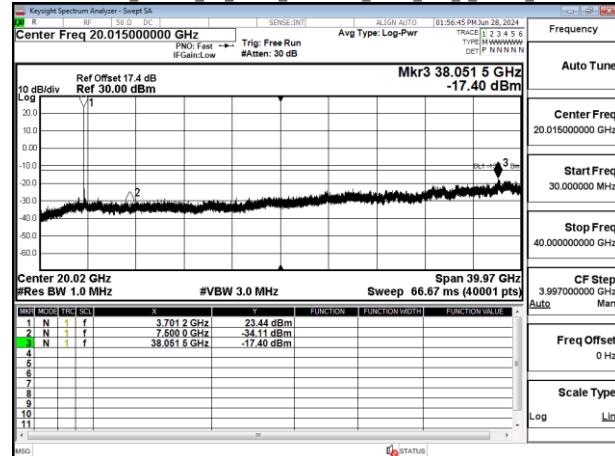
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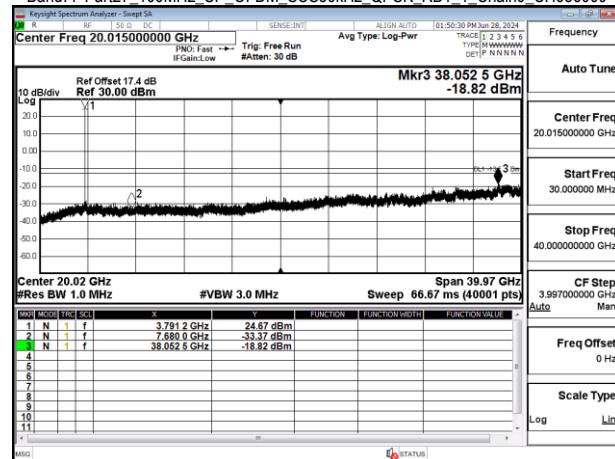
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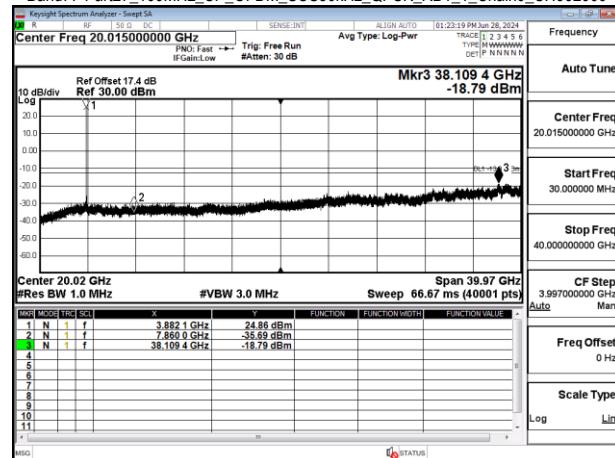
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Band77-Part27\_100MHz\_CP\_OFDM\_SCS30kHz\_QPSK\_RB1\_1\_Chain0\_CH656000



Band77-Part27\_100MHz\_CP\_OFDM\_SCS30kHz\_QPSK\_RB1\_1\_Chain0\_CH662000



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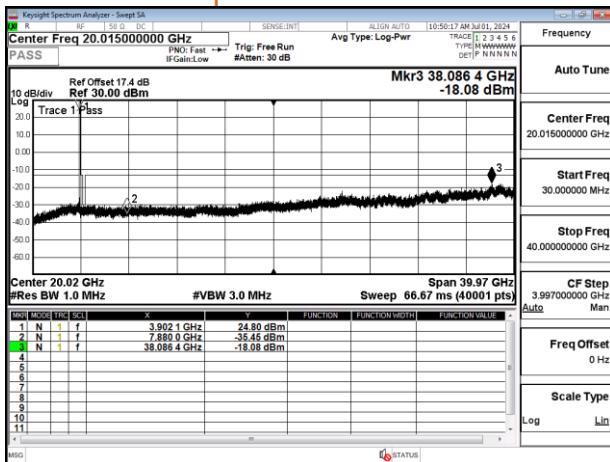
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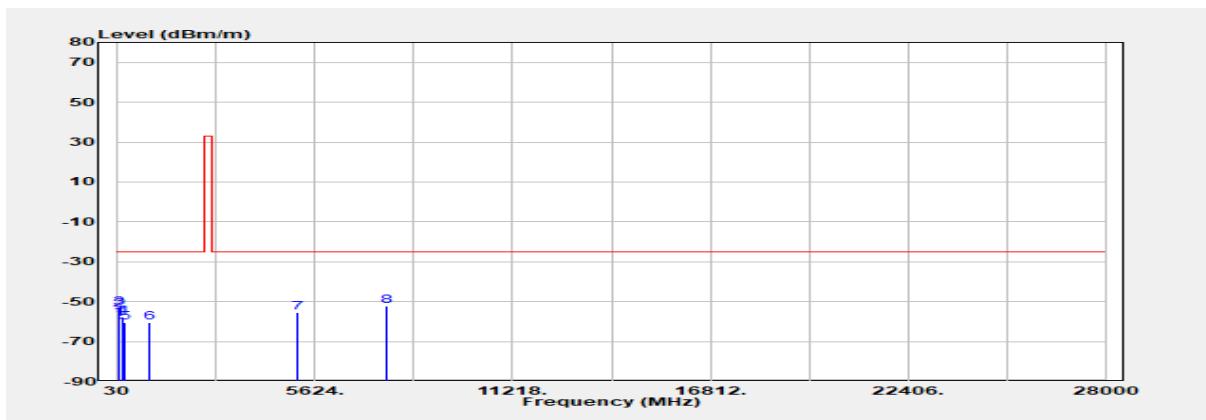
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## 5 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

Report Number :TERF2405001540E2  
Operation Mode :NR n41  
Test Mode :Tx  
EUT Pol :E2 Plane  
Test Frequency :2546.01 MHz  
Note :SIM 1

Test Site :SAC C  
Test Date :2024-06-27  
Temp./Humi. :23.5°C/54%  
Antenna Pol. :Vertical  
Engineer :Howard Huang  
Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
52.310	-58.24	-46.31	-11.01	-0.92	-25.00	-33.24
66.860	-54.11	-45.96	-7.12	-1.03	-25.00	-29.11
84.320	-53.09	-50.24	-1.70	-1.15	-25.00	-28.09
148.340	-57.72	-54.40	-1.79	-1.53	-25.00	-32.72
201.690	-60.58	-62.86	4.07	-1.79	-25.00	-35.58
943.740	-60.73	-60.31	3.40	-3.82	-25.00	-35.73
5092.020	-55.36	-58.61	12.32	-9.07	-25.00	-30.36
7638.030	-52.21	-52.53	11.45	-11.13	-25.00	-27.21

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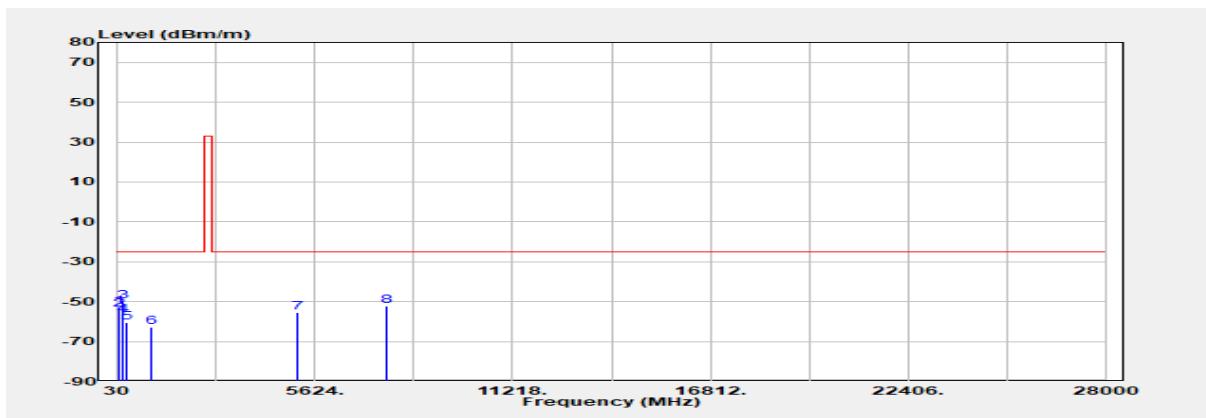
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Report Number :TERF2405001540E2  
 Operation Mode :NR n41  
 Test Mode :Tx  
 EUT Pol :E2 Plane  
 Test Frequency :2546.01 MHz  
 Note :SIM 1

Test Site :SAC C  
 Test Date :2024-06-27  
 Temp./Humi. :23.5°C/54%  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang  
 Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
69.770	-52.72	-45.37	-6.29	-1.06	-25.00	-27.72
85.290	-54.24	-51.61	-1.48	-1.15	-25.00	-29.24
148.340	-49.77	-46.45	-1.79	-1.53	-25.00	-24.77
194.900	-56.87	-58.69	3.58	-1.76	-25.00	-31.87
262.800	-60.60	-62.71	4.16	-2.05	-25.00	-35.60
978.660	-62.89	-62.70	3.69	-3.88	-25.00	-37.89
5092.020	-55.41	-58.66	12.32	-9.07	-25.00	-30.41
7638.030	-52.10	-52.42	11.45	-11.13	-25.00	-27.10

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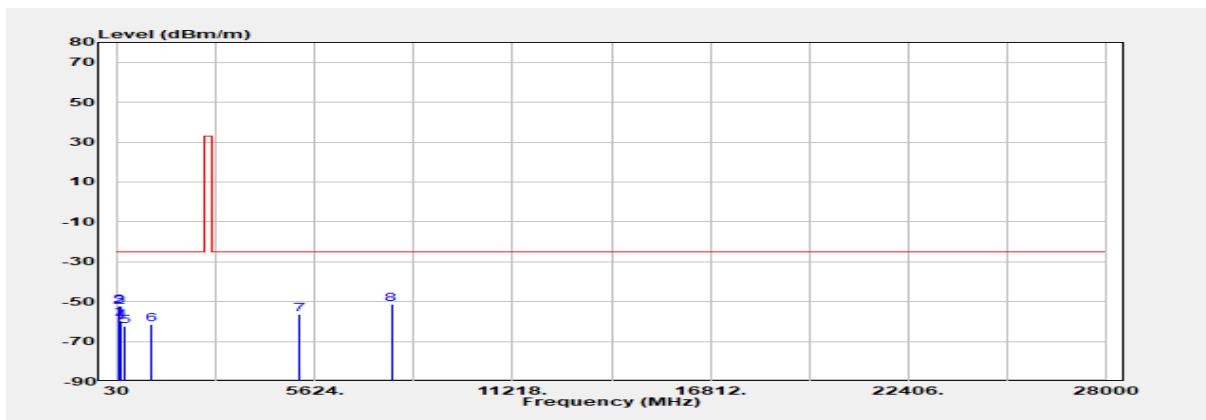
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Report Number :TERF2405001540E2  
Operation Mode :NR n41  
Test Mode :Tx  
EUT Pol :E2 Plane  
Test Frequency :2592.99 MHz  
Note :SIM 1

Test Site :SAC C  
Test Date :2024-06-27  
Temp./Humi. :23.5°C/54%  
Antenna Pol. :Vertical  
Engineer :Howard Huang  
Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
53.280	-58.19	-46.28	-10.98	-0.93	-25.00	-33.19
66.860	-52.66	-44.51	-7.12	-1.03	-25.00	-27.66
83.350	-52.13	-49.12	-1.87	-1.14	-25.00	-27.13
139.610	-59.48	-56.23	-1.76	-1.49	-25.00	-34.48
200.720	-62.22	-64.46	4.03	-1.79	-25.00	-37.22
982.540	-61.36	-61.25	3.78	-3.89	-25.00	-36.36
5185.980	-56.52	-59.94	12.62	-9.20	-25.00	-31.52
7778.970	-51.26	-51.61	11.64	-11.29	-25.00	-26.26

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Report Number :TERF2405001540E2

Test Site :SAC C

Operation Mode :NR n41

Test Date :2024-06-27

Test Mode :Tx

Temp./Humi. :23.5°C/54%

EUT Pol :E2 Plane

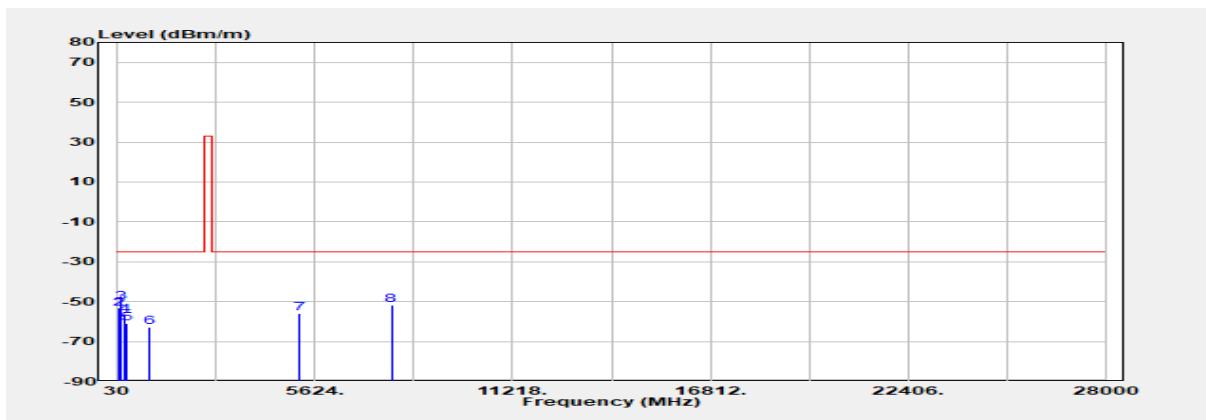
Antenna Pol. :Horizontal

Test Frequency :2592.99 MHz

Engineer :Howard Huang

Note :SIM 1

Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
69.770	-53.19	-45.84	-6.29	-1.06	-25.00	-28.19
86.260	-53.53	-51.27	-1.10	-1.16	-25.00	-28.53
129.910	-50.34	-47.37	-1.51	-1.46	-25.00	-25.34
216.240	-56.69	-59.62	4.81	-1.88	-25.00	-31.69
262.800	-61.18	-63.29	4.16	-2.05	-25.00	-36.18
946.650	-62.96	-62.50	3.37	-3.83	-25.00	-37.96
5185.980	-55.91	-59.33	12.62	-9.20	-25.00	-30.91
7778.970	-51.79	-52.14	11.64	-11.29	-25.00	-26.79

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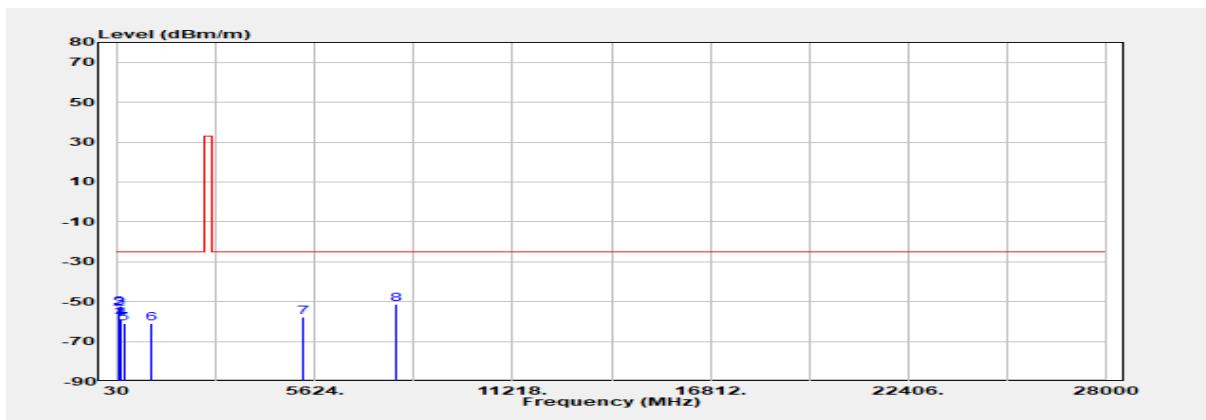
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Report Number :TERF2405001540E2  
 Operation Mode :NR n41  
 Test Mode :Tx  
 EUT Pol :E2 Plane  
 Test Frequency :2640 MHz  
 Note :SIM 1

Test Site :SAC C  
 Test Date :2024-06-27  
 Temp./Humi. :23.5°C/54%  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang  
 Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
53.280	-58.23	-46.32	-10.98	-0.93	-25.00	-33.23
64.920	-53.52	-44.71	-7.79	-1.02	-25.00	-28.52
85.290	-52.99	-50.36	-1.48	-1.15	-25.00	-27.99
141.550	-58.54	-55.18	-1.86	-1.50	-25.00	-33.54
198.780	-60.89	-63.14	4.03	-1.78	-25.00	-35.89
977.690	-61.13	-60.93	3.68	-3.88	-25.00	-36.13
5280.000	-57.63	-61.57	13.16	-9.22	-25.00	-32.63
7920.000	-51.33	-51.25	11.32	-11.40	-25.00	-26.33

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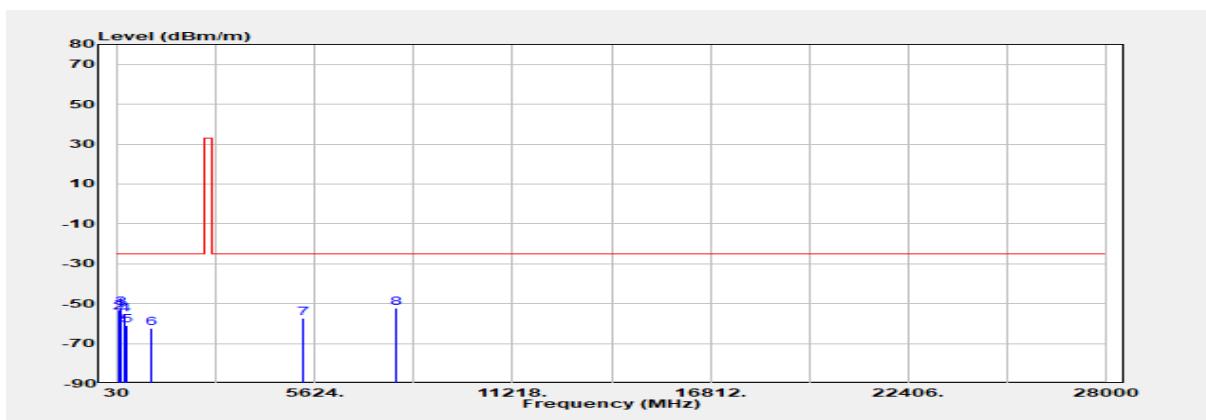
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Report Number :TERF2405001540E2  
 Operation Mode :NR n41  
 Test Mode :Tx  
 EUT Pol :E2 Plane  
 Test Frequency :2640 MHz  
 Note :SIM 1

Test Site :SAC C  
 Test Date :2024-06-27  
 Temp./Humi. :23.5°C/54%  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang  
 Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
69.770	-53.33	-45.98	-6.29	-1.06	-25.00	-28.33
86.260	-54.54	-52.28	-1.10	-1.16	-25.00	-29.54
137.670	-52.02	-48.90	-1.64	-1.48	-25.00	-27.02
215.270	-55.56	-58.44	4.75	-1.87	-25.00	-30.56
264.740	-61.18	-63.26	4.14	-2.06	-25.00	-36.18
964.110	-62.56	-62.14	3.45	-3.87	-25.00	-37.56
5280.000	-57.20	-61.14	13.16	-9.22	-25.00	-32.20
7920.000	-52.25	-52.17	11.32	-11.40	-25.00	-27.25

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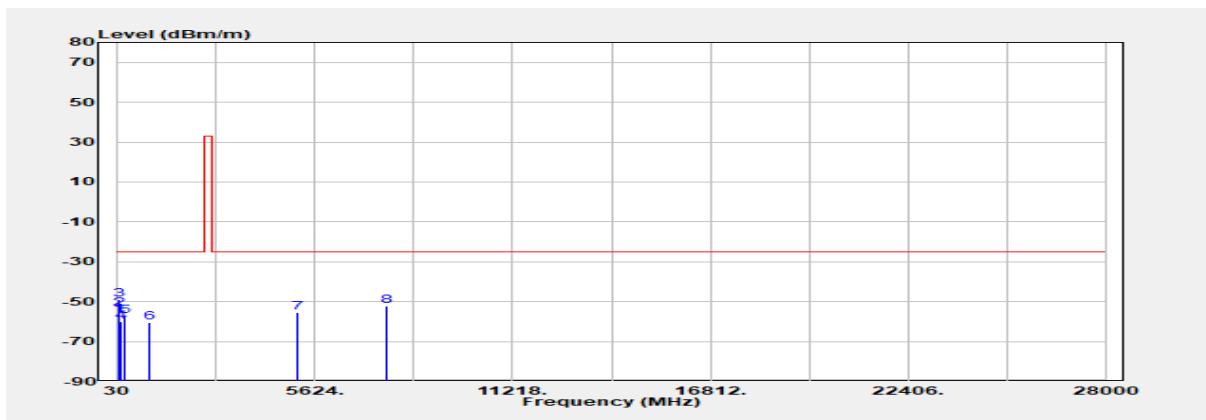
f (886-2) 2298-0488

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Report Number :TERF2405001540E2  
Operation Mode :NR n41  
Test Mode :Tx  
EUT Pol :E2 Plane  
Test Frequency :2550 MHz  
Note :SIM 1

Test Site :SAC C  
Test Date :2024-06-27  
Temp./Humi. :23.5°C/54%  
Antenna Pol. :Vertical  
Engineer :Howard Huang  
Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.370	-56.96	-44.52	-11.55	-0.89	-25.00	-31.96
65.890	-53.58	-45.26	-7.29	-1.03	-25.00	-28.58
84.320	-48.81	-45.96	-1.70	-1.15	-25.00	-23.81
138.640	-59.84	-56.55	-1.81	-1.48	-25.00	-34.84
200.720	-57.34	-59.58	4.03	-1.79	-25.00	-32.34
948.590	-60.63	-60.15	3.35	-3.83	-25.00	-35.63
5100.000	-55.43	-58.64	12.30	-9.09	-25.00	-30.43
7650.000	-52.24	-52.62	11.50	-11.12	-25.00	-27.24

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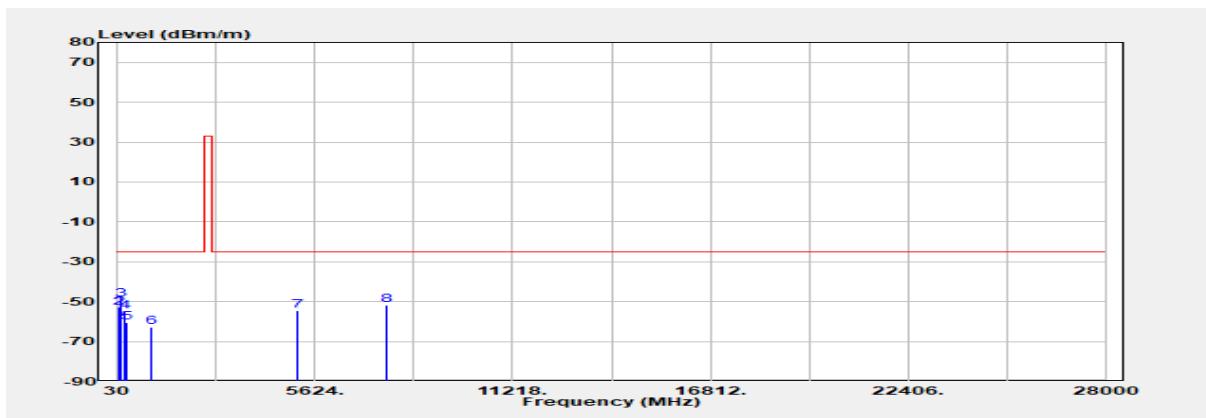
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Report Number :TERF2405001540E2  
 Operation Mode :NR n41  
 Test Mode :Tx  
 EUT Pol :E2 Plane  
 Test Frequency :2550 MHz  
 Note :SIM 1

Test Site :SAC C  
 Test Date :2024-06-27  
 Temp./Humi. :23.5°C/54%  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang  
 Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
69.770	-52.76	-45.41	-6.29	-1.06	-25.00	-27.76
82.380	-53.21	-49.88	-2.19	-1.14	-25.00	-28.21
132.820	-49.21	-46.24	-1.50	-1.47	-25.00	-24.21
201.690	-54.79	-57.07	4.07	-1.79	-25.00	-29.79
262.800	-60.50	-62.61	4.16	-2.05	-25.00	-35.50
999.030	-62.72	-62.75	3.97	-3.94	-25.00	-37.72
5100.000	-54.32	-57.53	12.30	-9.09	-25.00	-29.32
7650.000	-51.99	-52.37	11.50	-11.12	-25.00	-26.99

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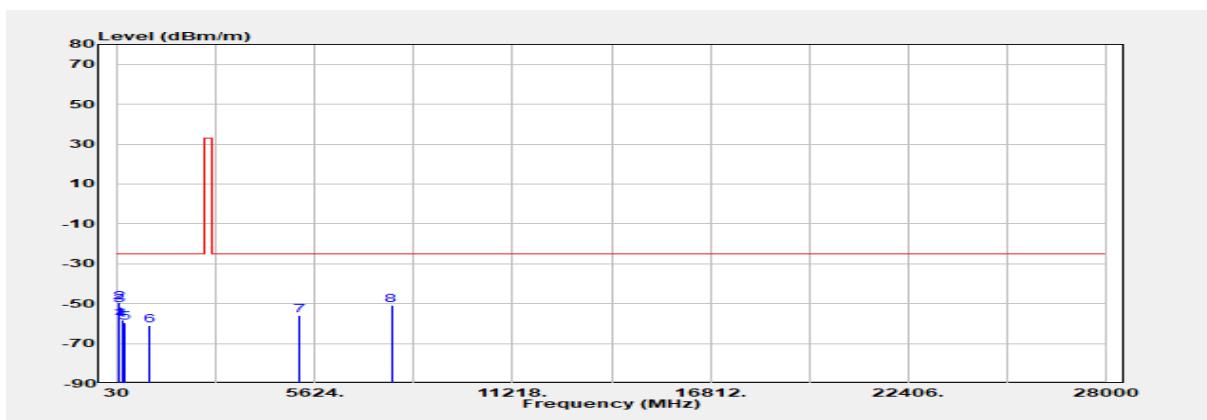
f (886-2) 2298-0488

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Report Number :TERF2405001540E2  
 Operation Mode :NR n41  
 Test Mode :Tx  
 EUT Pol :E2 Plane  
 Test Frequency :2592.99 MHz  
 Note :SIM 1

Test Site :SAC C  
 Test Date :2024-06-27  
 Temp./Humi. :23.5°C/54%  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang  
 Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
53.280	-57.89	-45.98	-10.98	-0.93	-25.00	-32.89
61.040	-49.48	-39.52	-8.99	-0.97	-25.00	-24.48
84.320	-50.72	-47.87	-1.70	-1.15	-25.00	-25.72
144.460	-58.20	-54.74	-1.93	-1.53	-25.00	-33.20
206.540	-59.62	-62.12	4.31	-1.81	-25.00	-34.62
948.590	-61.16	-60.68	3.35	-3.83	-25.00	-36.16
5185.980	-56.06	-59.48	12.62	-9.20	-25.00	-31.06
7778.970	-50.90	-51.25	11.64	-11.29	-25.00	-25.90

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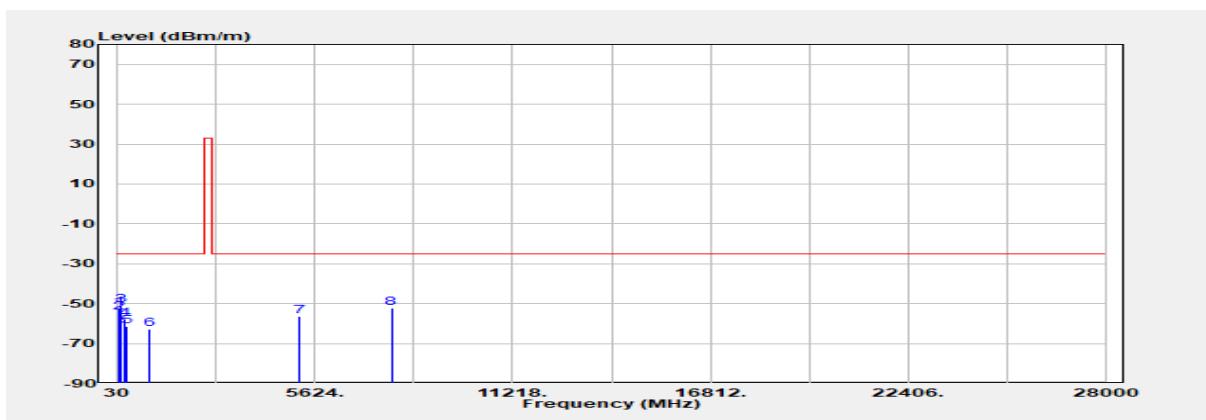
f (886-2) 2298-0488

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Report Number :TERF2405001540E2  
Operation Mode :NR n41  
Test Mode :Tx  
EUT Pol :E2 Plane  
Test Frequency :2592.99 MHz  
Note :SIM 1

Test Site :SAC C  
Test Date :2024-06-27  
Temp./Humi. :23.5°C/54%  
Antenna Pol. :Horizontal  
Engineer :Howard Huang  
Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
69.770	-52.09	-44.74	-6.29	-1.06	-25.00	-27.09
84.320	-54.47	-51.62	-1.70	-1.15	-25.00	-29.47
140.580	-50.92	-47.65	-1.78	-1.49	-25.00	-25.92
199.750	-57.87	-60.09	4.01	-1.79	-25.00	-32.87
262.800	-61.39	-63.50	4.16	-2.05	-25.00	-36.39
940.830	-62.79	-62.40	3.43	-3.82	-25.00	-37.79
5185.980	-56.36	-59.78	12.62	-9.20	-25.00	-31.36
7778.970	-52.06	-52.41	11.64	-11.29	-25.00	-27.06

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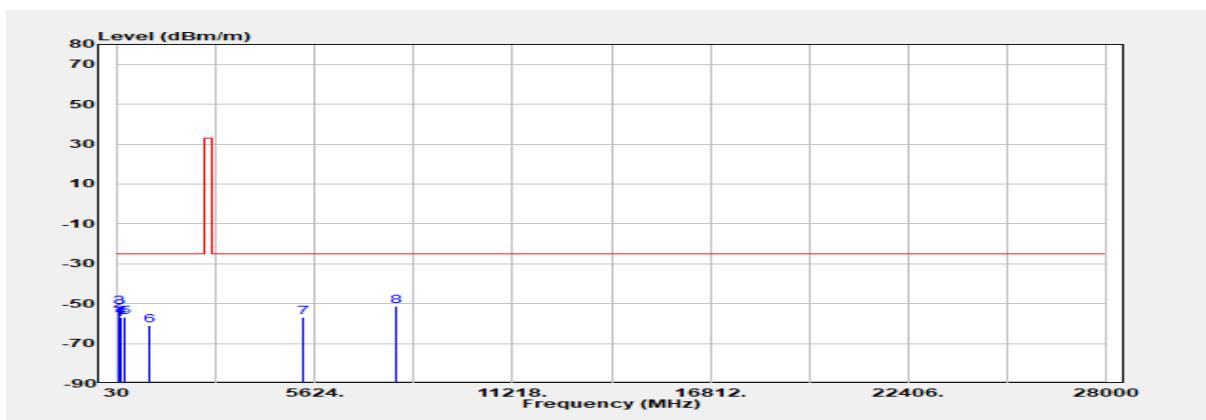
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Report Number :TERF2405001540E2  
 Operation Mode :NR n41  
 Test Mode :Tx  
 EUT Pol :E2 Plane  
 Test Frequency :2640 MHz  
 Note :SIM 1

Test Site :SAC C  
 Test Date :2024-06-27  
 Temp./Humi. :23.5°C/54%  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang  
 Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
53.280	-57.59	-45.68	-10.98	-0.93	-25.00	-32.59
66.860	-53.67	-45.52	-7.12	-1.03	-25.00	-28.67
84.320	-51.56	-48.71	-1.70	-1.15	-25.00	-26.56
135.730	-57.05	-53.94	-1.64	-1.47	-25.00	-32.05
201.690	-56.80	-59.08	4.07	-1.79	-25.00	-31.80
944.710	-61.19	-60.76	3.39	-3.82	-25.00	-36.19
5280.000	-56.77	-60.71	13.16	-9.22	-25.00	-31.77
7920.000	-51.24	-51.16	11.32	-11.40	-25.00	-26.24

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Report Number :TERF2405001540E2

Operation Mode :NR n41

Test Mode :Tx

EUT Pol :E2 Plane

Test Frequency :2640 MHz

Note :SIM 1

Test Site :SAC C

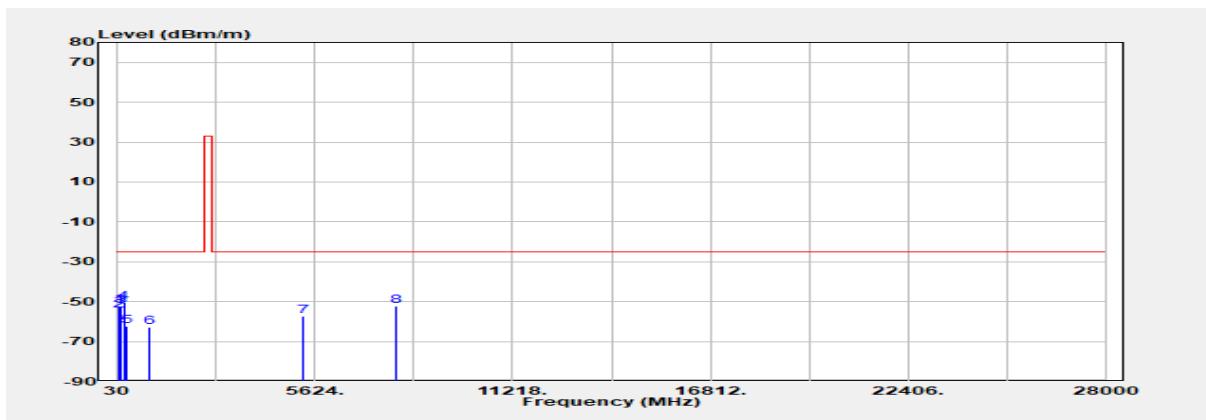
Test Date :2024-06-27

Temp./Humi. :23.5°C/54%

Antenna Pol. :Horizontal

Engineer :Howard Huang

Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.800	-52.54	-44.86	-6.63	-1.05	-25.00	-27.54
86.260	-54.37	-52.11	-1.10	-1.16	-25.00	-29.37
140.580	-52.28	-49.01	-1.78	-1.49	-25.00	-27.28
198.780	-50.23	-52.48	4.03	-1.78	-25.00	-25.23
263.770	-62.24	-64.34	4.15	-2.05	-25.00	-37.24
926.280	-62.95	-62.74	3.59	-3.80	-25.00	-37.95
5280.000	-57.48	-61.42	13.16	-9.22	-25.00	-32.48
7920.000	-52.08	-52.00	11.32	-11.40	-25.00	-27.08

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Report Number :TERF2405001540E2

Test Site :SAC C

Operation Mode :NR n77

Test Date :2024-06-27

Test Mode :Tx

Temp./Humi. :23.5°C/54%

EUT Pol :E2 Plane

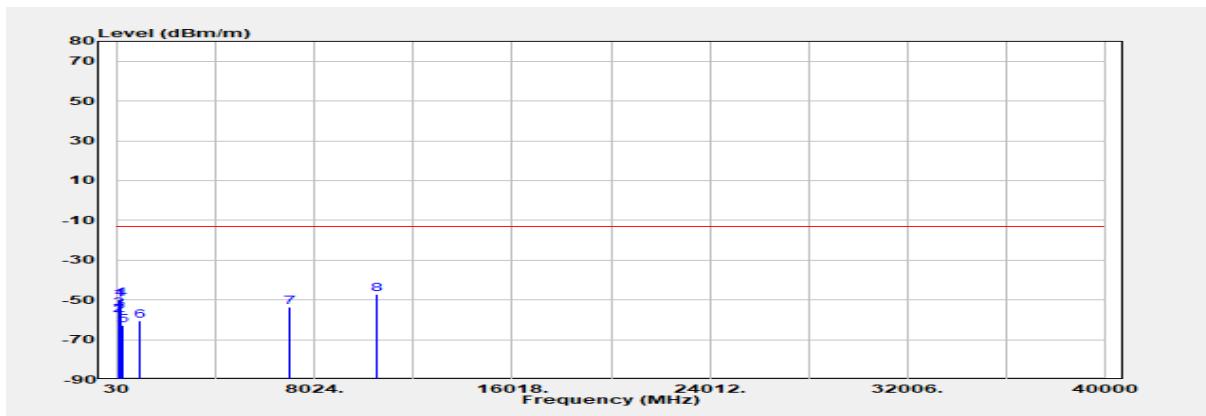
Antenna Pol. :Vertical

Test Frequency :3500.01 MHz

Engineer :Howard Huang

Note :SIM 1

Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.370	-49.93	-37.49	-11.55	-0.89	-13.00	-36.93
67.830	-57.77	-49.74	-6.99	-1.04	-13.00	-44.77
79.470	-54.33	-50.18	-3.02	-1.13	-13.00	-41.33
137.670	-49.62	-46.50	-1.64	-1.48	-13.00	-36.62
197.810	-62.72	-64.84	3.90	-1.78	-13.00	-49.72
951.500	-60.66	-60.17	3.35	-3.84	-13.00	-47.66
7000.020	-53.40	-54.45	11.70	-10.65	-13.00	-40.40
10500.030	-47.35	-45.64	11.40	-13.11	-13.00	-34.35

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

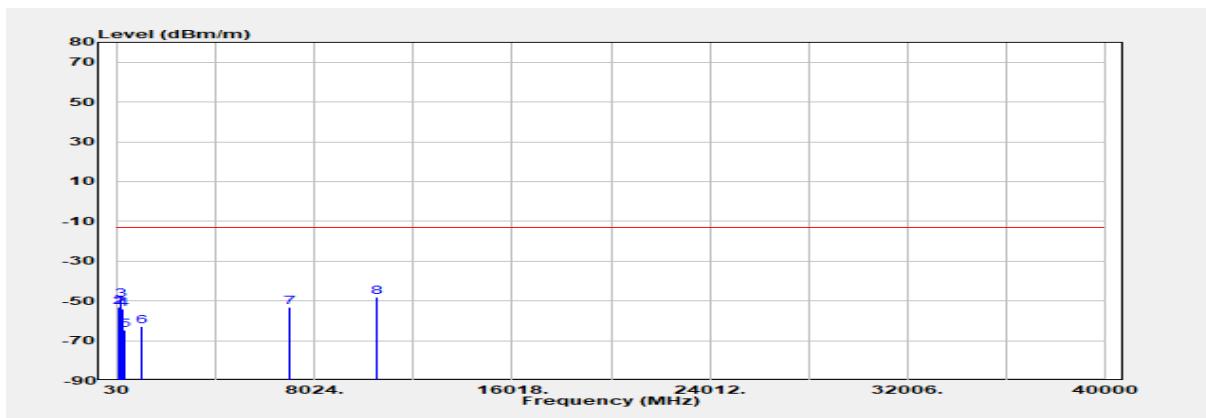
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Report Number :TERF2405001540E2  
Operation Mode :NR n77  
Test Mode :Tx  
EUT Pol :E2 Plane  
Test Frequency :3500.01 MHz  
Note :SIM 1

Test Site :SAC C  
Test Date :2024-06-27  
Temp./Humi. :23.5°C/54%  
Antenna Pol. :Horizontal  
Engineer :Howard Huang  
Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.890	-53.00	-44.68	-7.29	-1.03	-13.00	-40.00
86.260	-53.31	-51.05	-1.10	-1.16	-13.00	-40.31
140.580	-49.67	-46.40	-1.78	-1.49	-13.00	-36.67
198.780	-54.22	-56.47	4.03	-1.78	-13.00	-41.22
301.600	-64.61	-66.55	4.14	-2.20	-13.00	-51.61
996.120	-62.64	-62.65	3.95	-3.94	-13.00	-49.64
7000.020	-53.19	-54.24	11.70	-10.65	-13.00	-40.19
10500.030	-48.02	-46.31	11.40	-13.11	-13.00	-35.02

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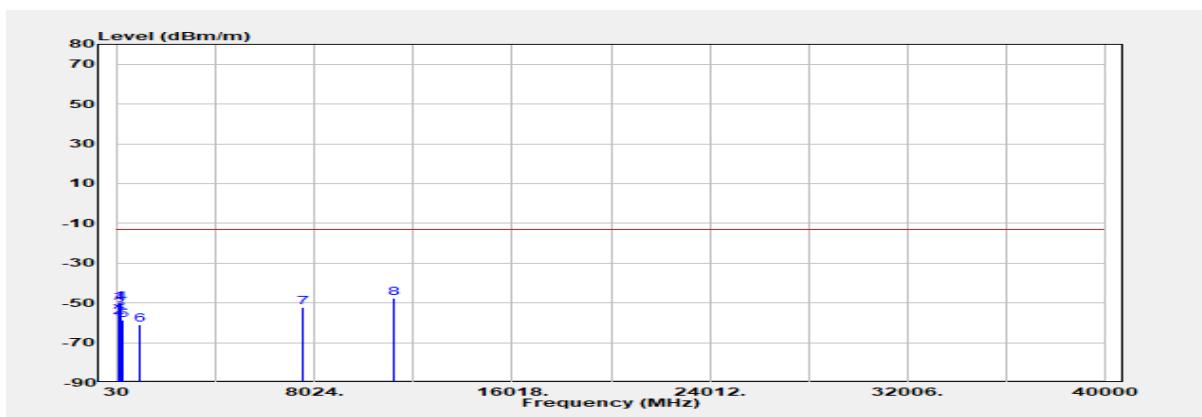
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Report Number :TERF2405001540E2  
 Operation Mode :NR n77  
 Test Mode :Tx  
 EUT Pol :E2 Plane  
 Test Frequency :3750 MHz  
 Note :SIM 1

Test Site :SAC C  
 Test Date :2024-06-27  
 Temp./Humi. :23.5°C/54%  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang  
 Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.370	-49.95	-37.51	-11.55	-0.89	-13.00	-36.95
68.800	-57.25	-49.57	-6.63	-1.05	-13.00	-44.25
79.470	-53.10	-48.95	-3.02	-1.13	-13.00	-40.10
139.610	-50.08	-46.83	-1.76	-1.49	-13.00	-37.08
203.630	-58.77	-61.13	4.16	-1.80	-13.00	-45.77
943.740	-60.83	-60.41	3.40	-3.82	-13.00	-47.83
7500.000	-52.17	-52.18	11.10	-11.09	-13.00	-39.17
11250.000	-47.40	-45.50	11.80	-13.70	-13.00	-34.40

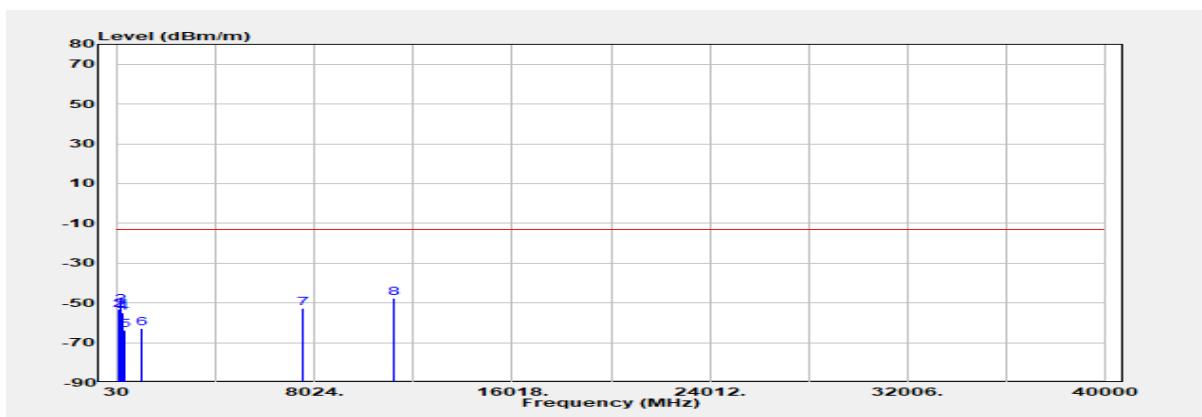
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Report Number :TERF2405001540E2  
Operation Mode :NR n77  
Test Mode :Tx  
EUT Pol :E2 Plane  
Test Frequency :3750 MHz  
Note :SIM 1

Test Site :SAC C  
Test Date :2024-06-27  
Temp./Humi. :23.5°C/54%  
Antenna Pol. :Horizontal  
Engineer :Howard Huang  
Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.890	-52.97	-44.65	-7.29	-1.03	-13.00	-39.97
87.230	-53.72	-51.52	-1.03	-1.17	-13.00	-40.72
147.370	-51.29	-47.79	-1.97	-1.53	-13.00	-38.29
203.630	-55.01	-57.37	4.16	-1.80	-13.00	-42.01
299.660	-63.57	-65.50	4.12	-2.19	-13.00	-50.57
995.150	-62.59	-62.59	3.94	-3.94	-13.00	-49.59
7500.000	-52.91	-52.92	11.10	-11.09	-13.00	-39.91
11250.000	-47.58	-45.68	11.80	-13.70	-13.00	-34.58

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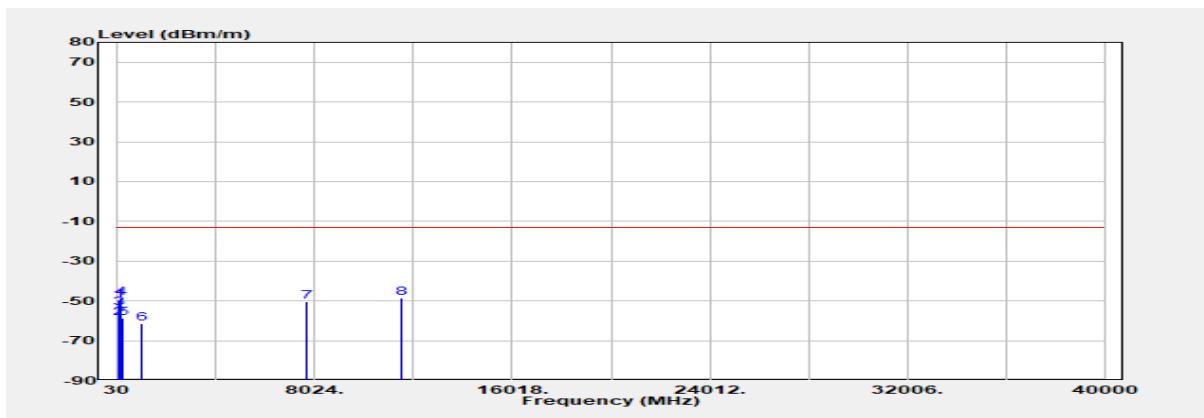
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Report Number :TERF2405001540E2  
 Operation Mode :NR n77  
 Test Mode :Tx  
 EUT Pol :E2 Plane  
 Test Frequency :3840 MHz  
 Note :SIM 1

Test Site :SAC C  
 Test Date :2024-06-27  
 Temp./Humi. :23.5°C/54%  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang  
 Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.370	-49.88	-37.44	-11.55	-0.89	-13.00	-36.88
68.800	-58.71	-51.03	-6.63	-1.05	-13.00	-45.71
79.470	-53.57	-49.42	-3.02	-1.13	-13.00	-40.57
144.460	-48.67	-45.21	-1.93	-1.53	-13.00	-35.67
202.660	-58.84	-61.16	4.12	-1.80	-13.00	-45.84
997.090	-61.38	-61.40	3.96	-3.94	-13.00	-48.38
7680.000	-50.23	-50.63	11.56	-11.16	-13.00	-37.23
11520.000	-48.56	-46.23	11.50	-13.83	-13.00	-35.56

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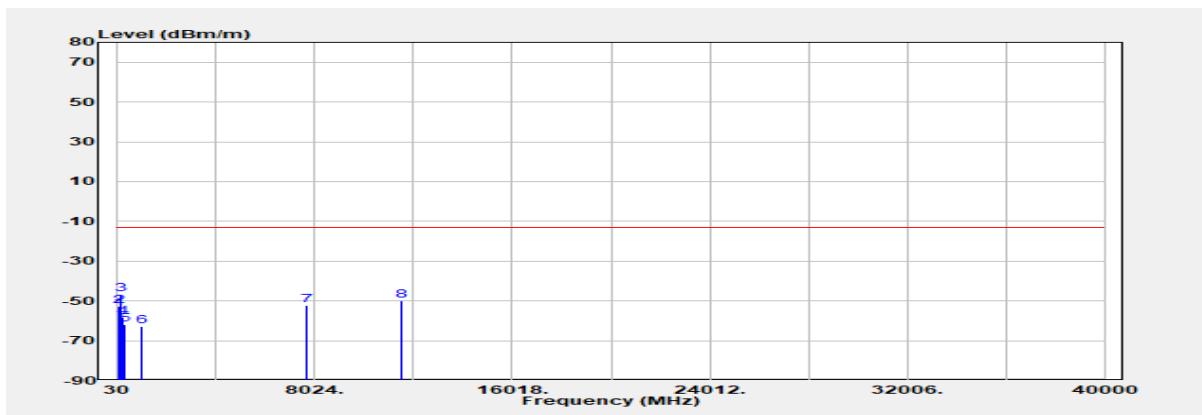
f (886-2) 2298-0488

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Report Number :TERF2405001540E2  
 Operation Mode :NR n77  
 Test Mode :Tx  
 EUT Pol :E2 Plane  
 Test Frequency :3840 MHz  
 Note :SIM 1

Test Site :SAC C  
 Test Date :2024-06-27  
 Temp./Humi. :23.5°C/54%  
 Antenna Pol. :Horizontal  
 Engineer :Howard Huang  
 Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
66.860	-53.87	-45.72	-7.12	-1.03	-13.00	-40.87
86.260	-52.79	-50.53	-1.10	-1.16	-13.00	-39.79
145.430	-46.81	-43.43	-1.85	-1.53	-13.00	-33.81
202.660	-58.16	-60.48	4.12	-1.80	-13.00	-45.16
295.780	-61.94	-63.87	4.09	-2.16	-13.00	-48.94
996.120	-62.74	-62.75	3.95	-3.94	-13.00	-49.74
7680.000	-52.09	-52.49	11.56	-11.16	-13.00	-39.09
11520.000	-49.98	-47.65	11.50	-13.83	-13.00	-36.98

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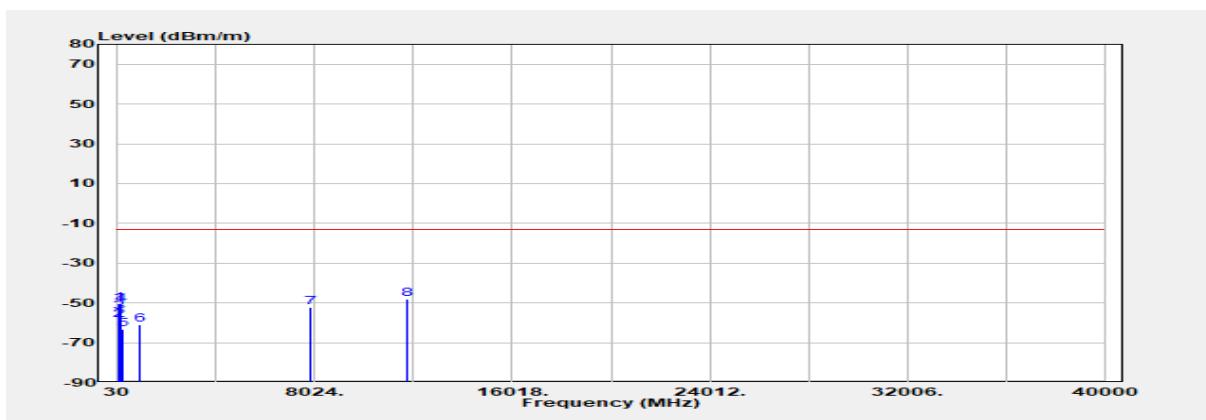
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Report Number :TERF2405001540E2  
 Operation Mode :NR n77  
 Test Mode :Tx  
 EUT Pol :E2 Plane  
 Test Frequency :3930 MHz  
 Note :SIM 1

Test Site :SAC C  
 Test Date :2024-06-27  
 Temp./Humi. :23.5°C/54%  
 Antenna Pol. :Vertical  
 Engineer :Howard Huang  
 Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.340	-50.32	-38.04	-11.37	-0.91	-13.00	-37.32
67.830	-58.44	-50.41	-6.99	-1.04	-13.00	-45.44
79.470	-54.40	-50.25	-3.02	-1.13	-13.00	-41.40
137.670	-50.69	-47.57	-1.64	-1.48	-13.00	-37.69
194.900	-63.10	-64.92	3.58	-1.76	-13.00	-50.10
949.560	-61.15	-60.65	3.34	-3.84	-13.00	-48.15
7860.000	-52.28	-52.48	11.56	-11.36	-13.00	-39.28
11790.000	-48.30	-46.80	12.58	-14.08	-13.00	-35.30

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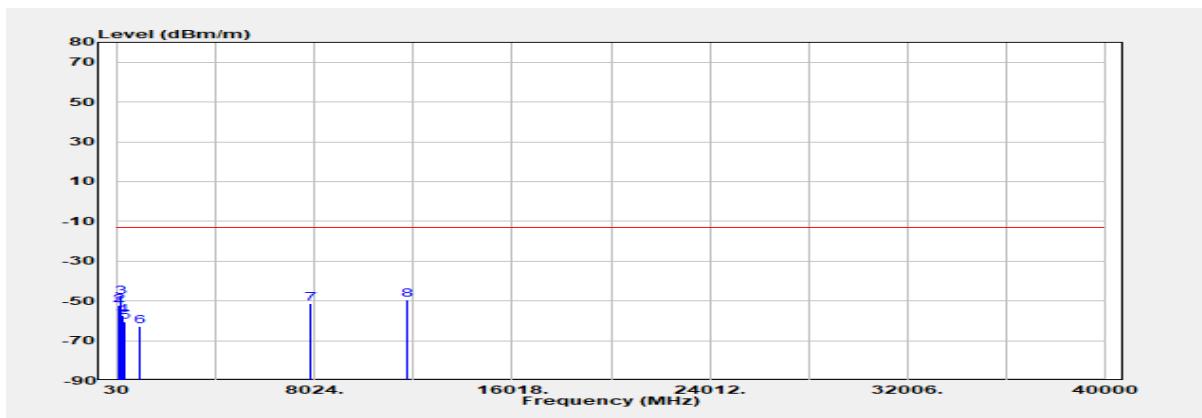
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Report Number :TERF2405001540E2  
Operation Mode :NR n77  
Test Mode :Tx  
EUT Pol :E2 Plane  
Test Frequency :3930 MHz  
Note :SIM 1

Test Site :SAC C  
Test Date :2024-06-27  
Temp./Humi. :23.5°C/54%  
Antenna Pol. :Horizontal  
Engineer :Howard Huang  
Ant :2TX



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
74.620	-53.18	-47.39	-4.67	-1.12	-13.00	-40.18
83.350	-52.12	-49.11	-1.87	-1.14	-13.00	-39.12
148.340	-47.94	-44.62	-1.79	-1.53	-13.00	-34.94
195.870	-57.43	-59.37	3.71	-1.77	-13.00	-44.43
294.810	-60.54	-62.46	4.08	-2.16	-13.00	-47.54
949.560	-62.71	-62.21	3.34	-3.84	-13.00	-49.71
7860.000	-51.51	-51.71	11.56	-11.36	-13.00	-38.51
11790.000	-49.30	-47.80	12.58	-14.08	-13.00	-36.30

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## 6 FREQUENCY STABILITY MEASUREMENT

**Note:** The DC Power is rated 3.7V dc.

5G NR BAND n41				
Reference Freq.:		Modulation.:		CP-OFDM QPSK
SCS.:	30	kHz	Bandwidth:	100MHz
CH	518598		Frequency(MHz):	2592.99
Freq. ERROR vs. VOLTAGE				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
4.255	20	2592.989998	-2	6482
3.7	20	2592.989989	-11	6482
3.145	20	2592.990007	7	6482
0 (End Point)	20	2592.990003	3	6482
Freq. ERROR vs. Temp.				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
3.7	-30	2592.990007	7	6482
3.7	-20	2592.990008	8	6482
3.7	-10	2592.989995	-5	6482
3.7	0	2592.989988	-12	6482
3.7	10	2592.989994	-6	6482
3.7	20	2592.990003	3	6482
3.7	30	2592.990008	8	6482
3.7	40	2592.990007	7	6482
3.7	50	2592.990000	0	6482

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5G NR BAND n77 Part27				
Reference Freq.:		Modulation.:		CP-OFDM QPSK
SCS.:	30 kHz	Bandwidth:		100MHz
CH	656000	Frequency(MHz):		3840.00
Freq. ERROR vs. VOLTAGE				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
4.255	20	3839.999989	-11	9600
3.7	20	3840.000007	7	9600
3.145	20	3840.000000	0	9600
0 (End Point)	20	3839.999988	-12	9600
Freq. ERROR vs. Temp.				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
3.7	-30	3840.000015	15	9600
3.7	-20	3840.000010	10	9600
3.7	-10	3839.999983	-17	9600
3.7	0	3840.000017	17	9600
3.7	10	3839.999996	-5	9600
3.7	20	3839.999980	-20	9600
3.7	30	3840.000010	10	9600
3.7	40	3839.999997	-3	9600
3.7	50	3840.000008	8	9600

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## 7 PEAK TO AVERAGE RATION

5G NR BAND n41														
CP-OFDM_SCS 30 kHz														
Channel bandwidth: 20MHz					Channel bandwidth: 30MHz									
Freq. (MHz)	CH	Antenna	PAPR (dB)		Freq. (MHz)	CH	Antenna	PAPR (dB)						
2506.02	501204	TX1	11.25	13	2511.00	502200	TX1	11.54	13					
		TX2	11.82				TX2	11.84						
2510.01	502002	TX1	11.62	13	2515.02	503004	TX1	11.87	13					
		TX2	11.31				TX2	12.46						
2592.99	518598	TX1	12.13	13	2592.99	518598	TX1	11.43	13					
		TX2	11.23				TX2	11.37						
2679.99	535998	TX1	12.04	13	2674.98	534996	TX1	12.38	13					
		TX2	12.14				TX2	11.98						
5G NR BAND n41														
CP-OFDM_SCS 30 kHz														
Channel bandwidth: 40MHz					Channel bandwidth: 50MHz									
Freq. (MHz)	CH	Antenna	PAPR (dB)		Freq. (MHz)	CH	Antenna	PAPR (dB)						
2516.01	503202	TX1	11.78	13	2521.02	504204	TX1	11.88	13					
		TX2	12.04				TX2	12.23						
2520.00	504000	TX1	11.80	13	2525.01	505002	TX1	11.94	13					
		TX2	11.70				TX2	11.67						
2592.99	518598	TX1	12.60	13	2592.99	518598	TX1	11.08	13					
		TX2	12.83				TX2	11.95						
2670.00	534000	TX1	11.73	13	2664.99	532998	TX1	12.05	13					
		TX2	11.61				TX2	11.46						
5G NR BAND n41														
CP-OFDM_SCS 30 kHz														
Channel bandwidth: 60MHz					Channel bandwidth: 70MHz									
Freq. (MHz)	CH	Antenna	PAPR (dB)		Freq. (MHz)	CH	Antenna	PAPR (dB)						
2526.00	505200	TX1	12.16	13	2531.01	506202	TX1	-	13					
		TX2	11.89				TX2	-						
2530.02	506004	TX1	12.73	13	2535.00	507000	TX1	-	13					
		TX2	12.18				TX2	-						
2592.99	518598	TX1	12.32	13	2592.99	518598	TX1	-	13					
		TX2	11.72				TX2	-						
2659.98	531996	TX1	12.72	13	2655.00	531000	TX1	-	13					
		TX2	12.26				TX2	-						
5G NR BAND n41														
CP-OFDM_SCS 30 kHz														
Channel bandwidth: 80MHz					Channel bandwidth: 90MHz									
Freq. (MHz)	CH	Antenna	PAPR (dB)		Freq. (MHz)	CH	Antenna	PAPR (dB)						
2536.02	507204	TX1	12.54	13	2541.00	508200	TX1	12.80	13					
		TX2	12.20				TX2	11.76						
2540.01	508002	TX1	11.70	13	2545.02	509004	TX1	12.35	13					
		TX2	12.20				TX2	12.42						
2592.99	518598	TX1	12.54	13	2592.99	518598	TX1	12.22	13					
		TX2	11.39				TX2	11.95						
2649.99	529998	TX1	12.05	13	2644.98	528996	TX1	11.95	13					
		TX2	12.09				TX2	12.28						
5G NR BAND n41														
CP-OFDM_SCS 30 kHz														
Channel bandwidth: 100MHz														
Freq. (MHz)	CH	Antenna	PAPR (dB)											
2546.01	509202	TX1	11.12	13										
		TX2	11.87											
2550.00	510000	TX1	12.15	13										
		TX2	11.84											
2592.99	518598	TX1	11.69	13										
		TX2	12.02											
2640.00	528000	TX1	12.59	13										
		TX2	12.52											

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5G NR BAND n77 Part27(3450 to 3550 MHz)												
CP-OFDM_SCS 30 kHz												
Channel bandwidth: 20MHz					Channel bandwidth: 25MHz							
Freq. (MHz)	CH	Antenna	PAPR (dB)		Freq. (MHz)	CH	Antenna	PAPR (dB)				
3460.02	630668	TX1	11.46		3462.51	630834	TX1	-				
		TX2	11.89				TX2	-	13			
3500.01	633334	TX1	11.89		3500.01	633334	TX1	-				
		TX2	12.25				TX2	-	13			
3540.00	636000	TX1	10.96		3537.51	635834	TX1	-				
		TX2	11.06				TX2	-	13			
5G NR BAND n77 Part27(3450 to 3550 MHz)												
CP-OFDM_SCS 30 kHz												
Channel bandwidth: 30MHz					Channel bandwidth: 40MHz							
Freq. (MHz)	CH	Antenna	PAPR (dB)		Freq. (MHz)	CH	Antenna	PAPR (dB)				
3465.00	631000	TX1	11.95		3470.01	631334	TX1	12.60				
		TX2	11.79				TX2	12.74				
3500.01	633334	TX1	12.66		3500.01	633334	TX1	11.48				
		TX2	12.10				TX2	11.40	13			
3534.99	635666	TX1	11.97		3529.98	635332	TX1	12.04				
		TX2	11.80				TX2	12.16				
5G NR BAND n77 Part27(3450 to 3550 MHz)												
CP-OFDM_SCS 30 kHz												
Channel bandwidth: 50MHz					Channel bandwidth: 60MHz							
Freq. (MHz)	CH	Antenna	PAPR (dB)		Freq. (MHz)	CH	Antenna	PAPR (dB)				
3475.02	631668	TX1	11.23		3480.00	632000	TX1	12.25				
		TX2	12.85				TX2	12.17				
3500.01	633334	TX1	11.98		3500.01	633334	TX1	12.44				
		TX2	12.94				TX2	12.81				
3525.00	635000	TX1	11.38		3519.99	634666	TX1	11.66				
		TX2	12.97				TX2	12.83				
5G NR BAND n77 Part27(3450 to 3550 MHz)												
CP-OFDM_SCS 30 kHz												
Channel bandwidth: 70MHz					Channel bandwidth: 80MHz							
Freq. (MHz)	CH	Antenna	PAPR (dB)		Freq. (MHz)	CH	Antenna	PAPR (dB)				
3485.01	632334	TX1	12.08		3490.02	632668	TX1	11.68				
		TX2	12.23				TX2	12.18				
3500.01	633334	TX1	11.63		3500.01	633334	TX1	11.91				
		TX2	12.64				TX2	12.21				
3514.98	634332	TX1	12.58		3510.00	634000	TX1	11.75				
		TX2	12.70				TX2	11.94				
5G NR BAND n77 Part27(3700 to 3980 MHz)												
CP-OFDM_SCS 30 kHz												
Channel bandwidth: 90MHz					Channel bandwidth: 100MHz							
Freq. (MHz)	CH	Antenna	PAPR (dB)		Freq. (MHz)	CH	Antenna	PAPR (dB)				
3495.00	633000	TX1	12.19				TX1	-				
		TX2	12.49				TX2	-				
3500.01	633334	TX1	11.89		3500.01	633334	TX1	12.30				
		TX2	12.53				TX2	12.58				
3504.99	633666	TX1	11.45				TX1	-				
		TX2	11.93				TX2	-				
5G NR BAND n77 Part27(3700 to 3980 MHz)												
CP-OFDM_SCS 30 kHz												
Channel bandwidth: 20MHz					Channel bandwidth: 25MHz							
Freq. (MHz)	CH	Antenna	PAPR (dB)		Freq. (MHz)	CH	Antenna	PAPR (dB)				
3710.01	647334	TX1	11.87		3712.50	647500	TX1	-				
		TX2	12.69				TX2	-	13			
3840.00	656000	TX1	12.09		3840.00	656000	TX1	-				
		TX2	11.58				TX2	-				
3969.99	664666	TX1	12.28		3967.50	664500	TX1	-				
		TX2	11.07				TX2	-	13			

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5G NR BAND n77 Part27(3700 to 3980 MHz)														
CP-OFDM_SCS 30 kHz														
Channel bandwidth: 30MHz					Channel bandwidth: 40MHz									
Freq. (MHz)	CH	Antenna	PAPR (dB)		Freq. (MHz)	CH	Antenna	PAPR (dB)						
3715.02	647668	TX1	12.05	13	3720.00	648000	TX1	11.68	13					
		TX2	12.98				TX2	12.01						
3840.00	656000	TX1	12.31	13	3840.00	656000	TX1	12.52	13					
		TX2	12.60				TX2	11.53						
3964.98	664332	TX1	12.50	13	3960.00	664000	TX1	11.70	13					
		TX2	12.24				TX2	11.76						
5G NR BAND n77 Part27(3700 to 3980 MHz)														
CP-OFDM_SCS 30 kHz														
Channel bandwidth: 50MHz					Channel bandwidth: 60MHz									
Freq. (MHz)	CH	Antenna	PAPR (dB)		Freq. (MHz)	CH	Antenna	PAPR (dB)						
3725.01	648334	TX1	11.88	13	3730.02	648668	TX1	11.51	13					
		TX2	12.03				TX2	12.56						
3840.00	656000	TX1	11.53	13	3840.00	656000	TX1	11.93	13					
		TX2	11.98				TX2	11.98						
3954.99	663666	TX1	12.42	13	3949.98	663332	TX1	11.36	13					
		TX2	11.89				TX2	12.33						
5G NR BAND n77 Part27(3700 to 3980 MHz)														
CP-OFDM_SCS 30 kHz														
Channel bandwidth: 70MHz					Channel bandwidth: 80MHz									
Freq. (MHz)	CH	Antenna	PAPR (dB)		Freq. (MHz)	CH	Antenna	PAPR (dB)						
3735.00	649000	TX1	12.41	13	3740.01	649334	TX1	12.35	13					
		TX2	12.12				TX2	12.55						
3840.00	656000	TX1	12.30	13	3840.00	656000	TX1	12.30	13					
		TX2	11.55				TX2	12.44						
3945.00	663000	TX1	12.20	13	3939.99	662666	TX1	12.65	13					
		TX2	12.07				TX2	12.09						
5G NR BAND n77 Part27(3700 to 3980 MHz)														
CP-OFDM_SCS 30 kHz														
Channel bandwidth: 90MHz					Channel bandwidth: 100MHz									
Freq. (MHz)	CH	Antenna	PAPR (dB)		Freq. (MHz)	CH	Antenna	PAPR (dB)						
3745.02	649668	TX1	12.30	13	3750.00	650000	TX1	11.77	13					
		TX2	12.12				TX2	12.18						
3840.00	656000	TX1	11.88	13	3840.00	656000	TX1	12.08	13					
		TX2	12.14				TX2	11.88						
3934.98	662332	TX1	11.85	13	3930.00	662000	TX1	12.06	13					
		TX2	11.74				TX2	12.26						

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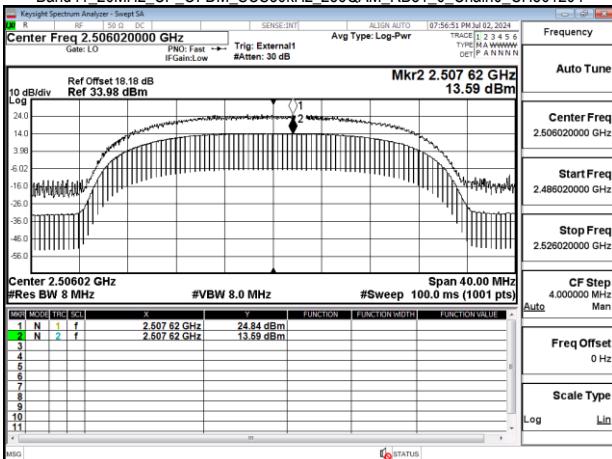
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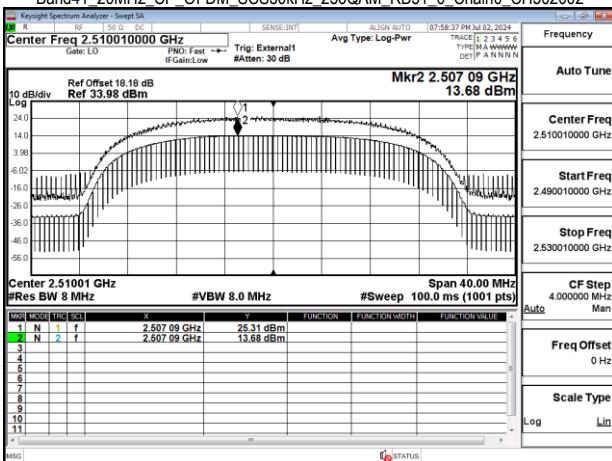
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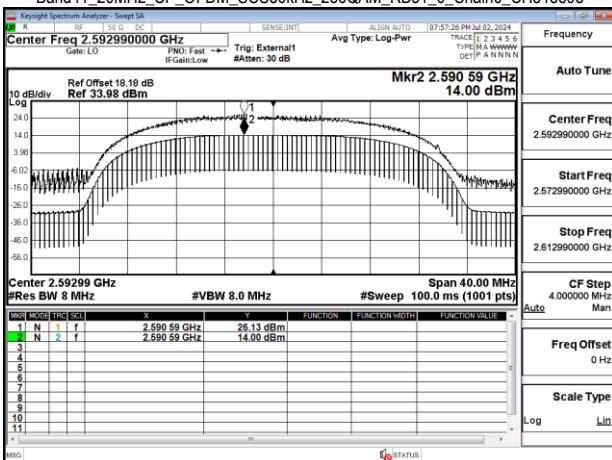
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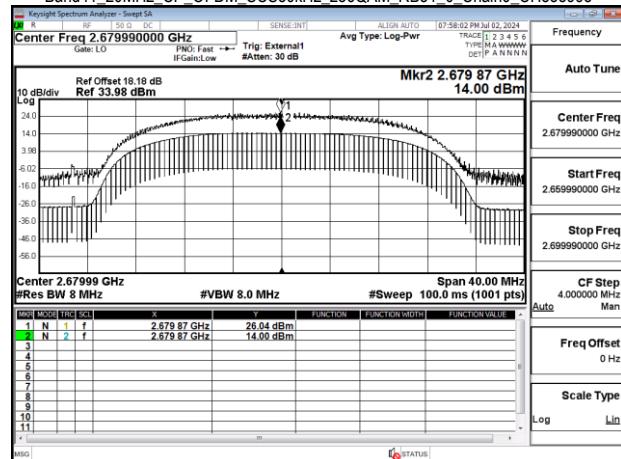
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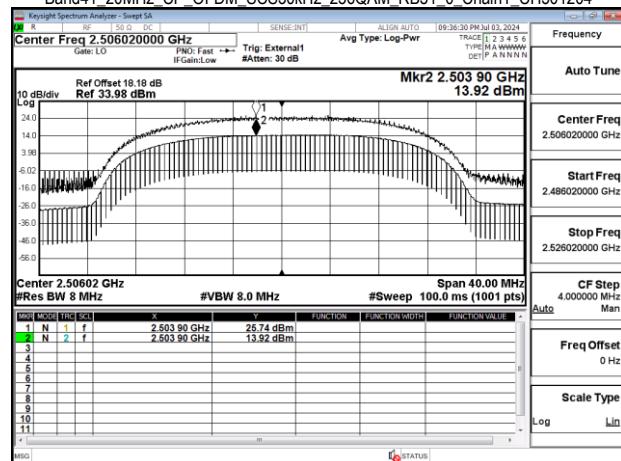
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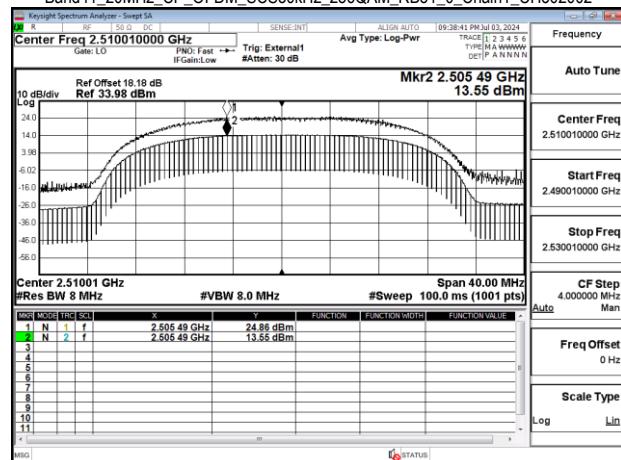
Band41 20MHz CP OFDM SCS30kHz 256QAM RB51\_0\_Chain0\_CH535998



Band41 20MHz CP OFDM SCS30kHz 256QAM RB51\_0\_Chain1 CH501204



Band41 20MHz CP OFDM SCS30kHz 256QAM RB51\_0\_Chain1 CH502002



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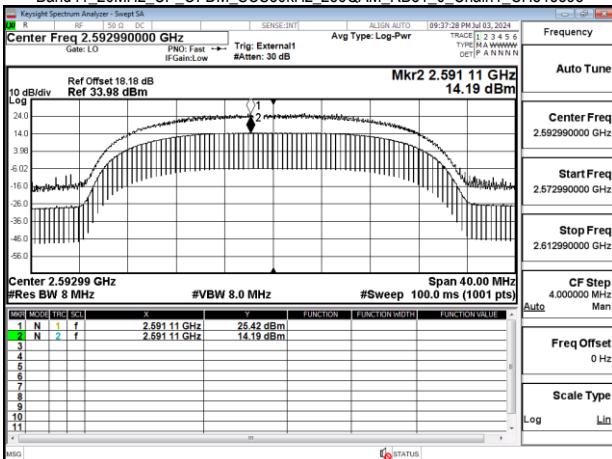
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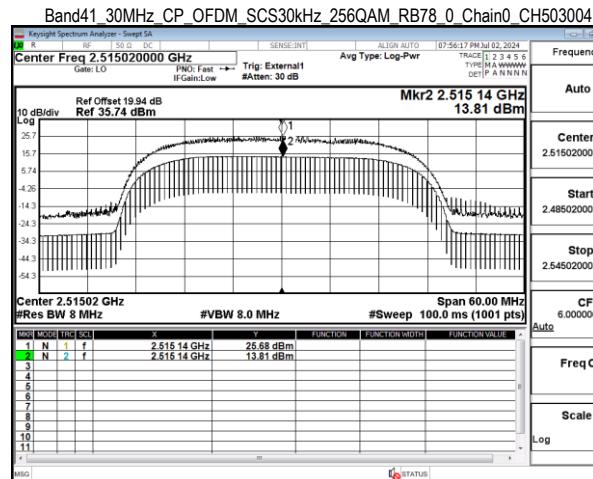
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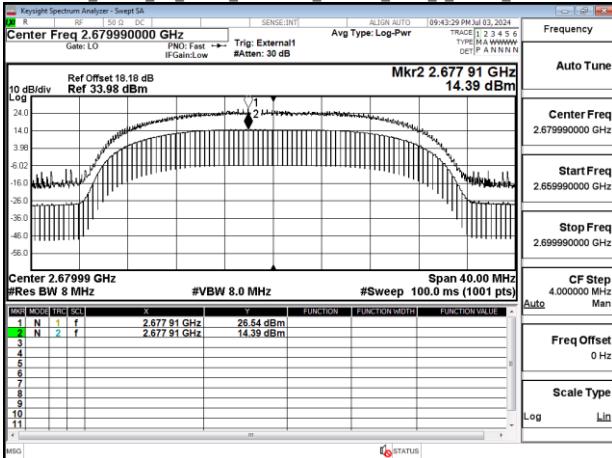
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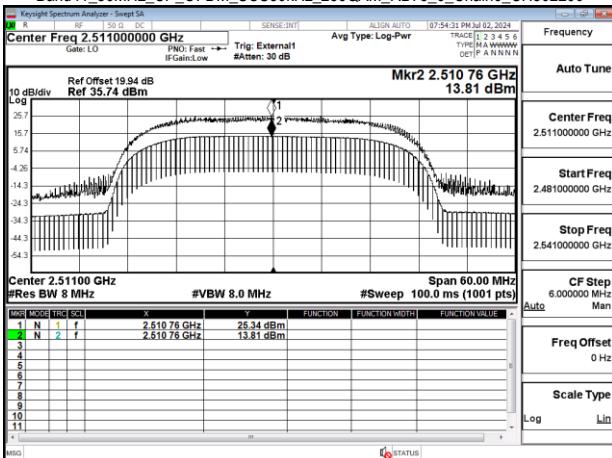
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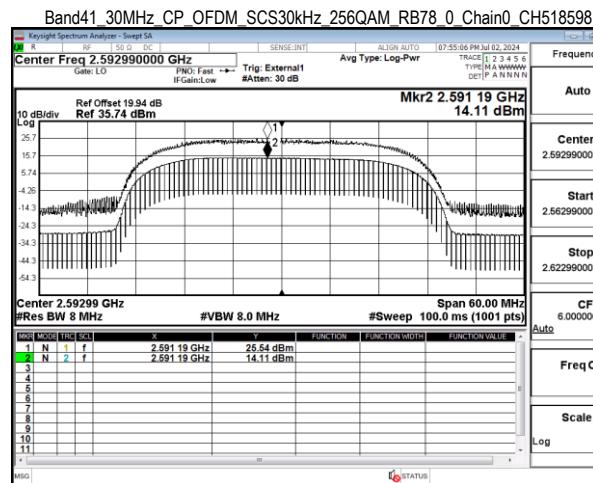
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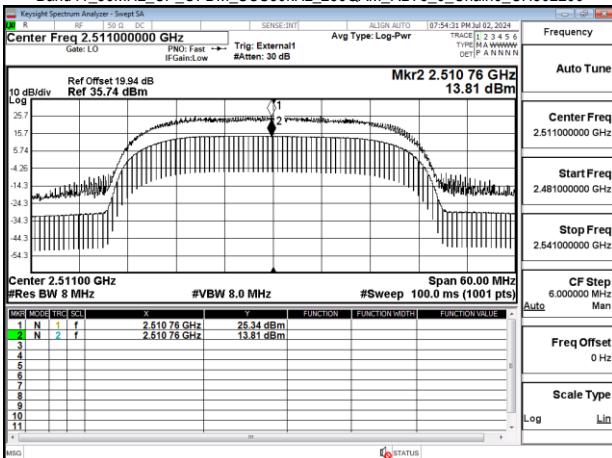
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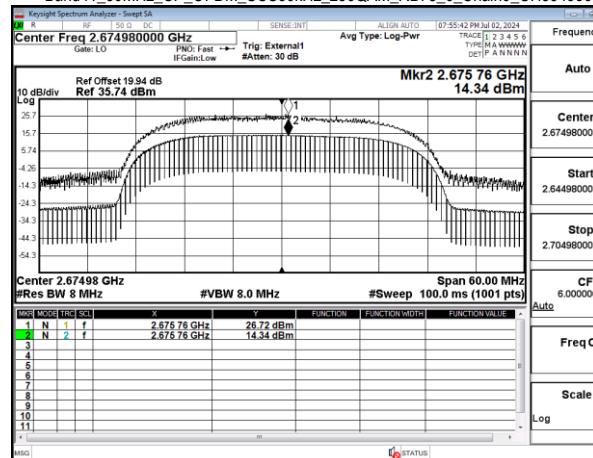
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Band41\_20MHz\_CP\_OFDM\_SCS30kHz\_256QAM\_RB51\_0\_Chain1\_CH535998



Band41\_30MHz\_CP\_OFDM\_SCS30kHz\_256QAM\_RB78\_0\_Chain0\_CH534996



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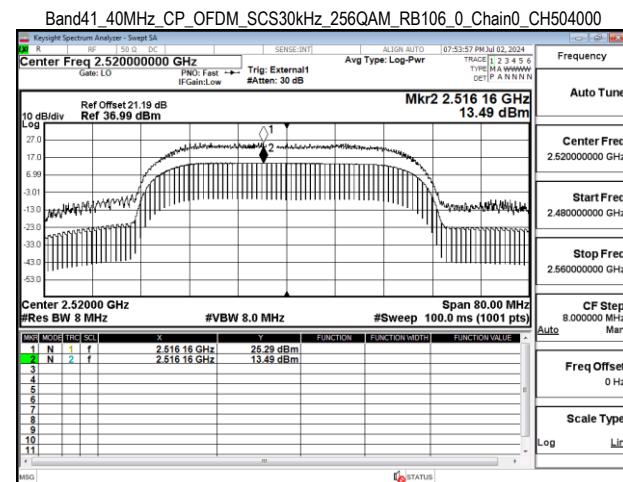
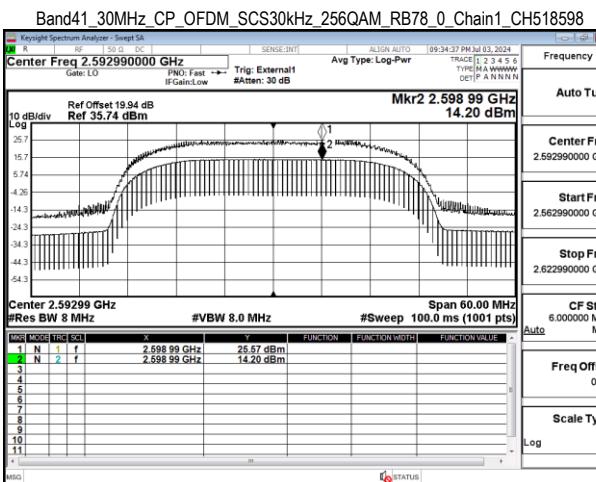
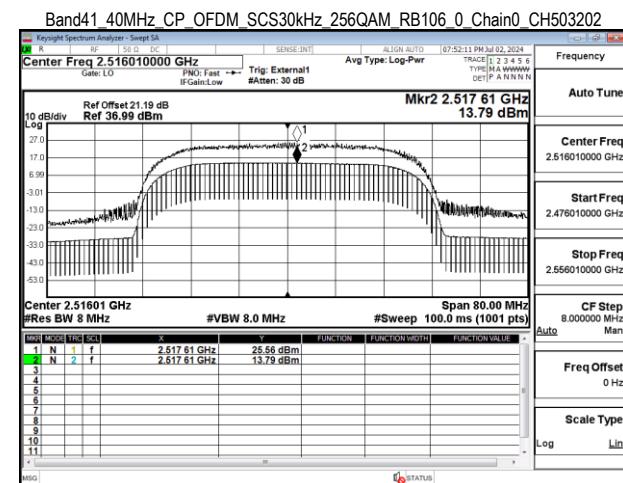
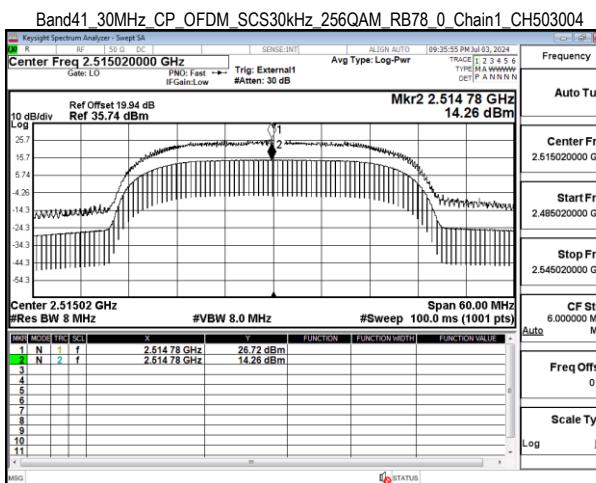
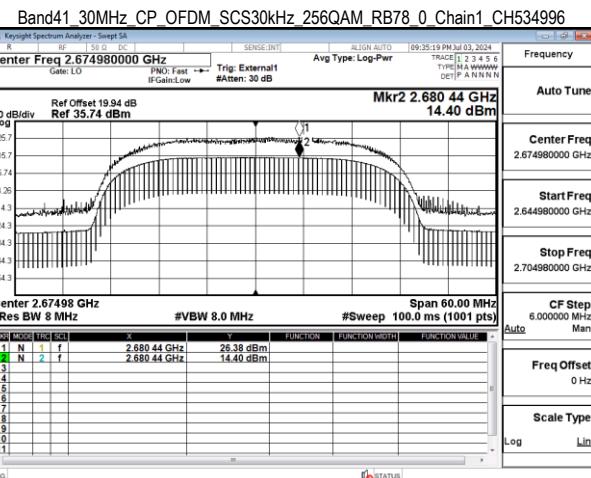
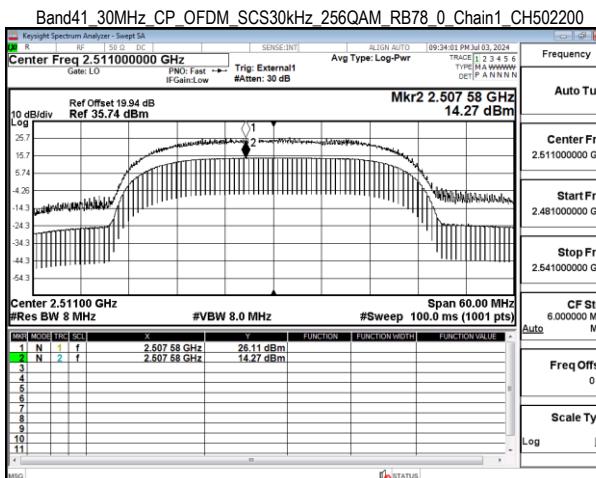
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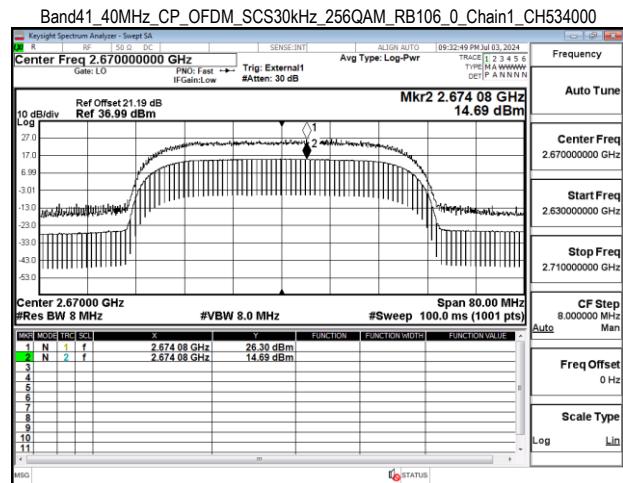
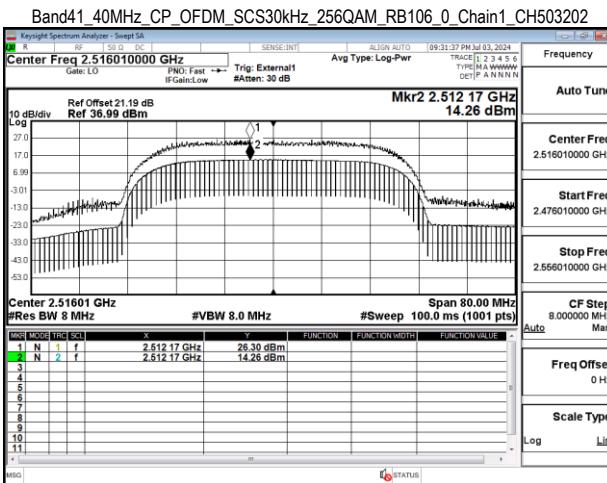
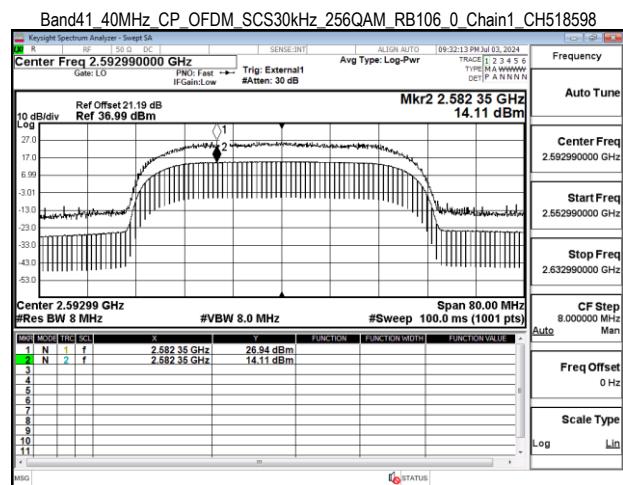
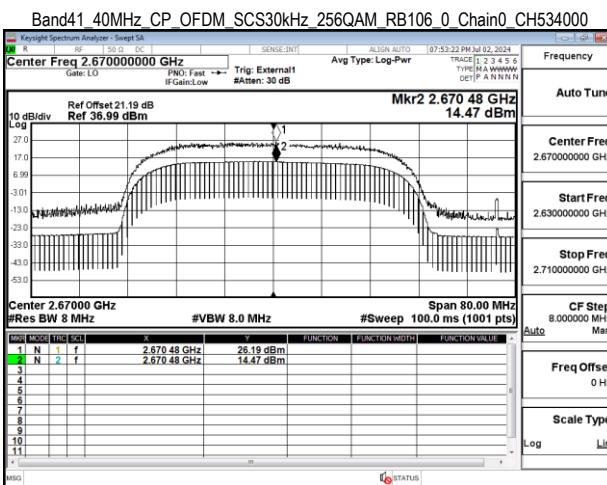
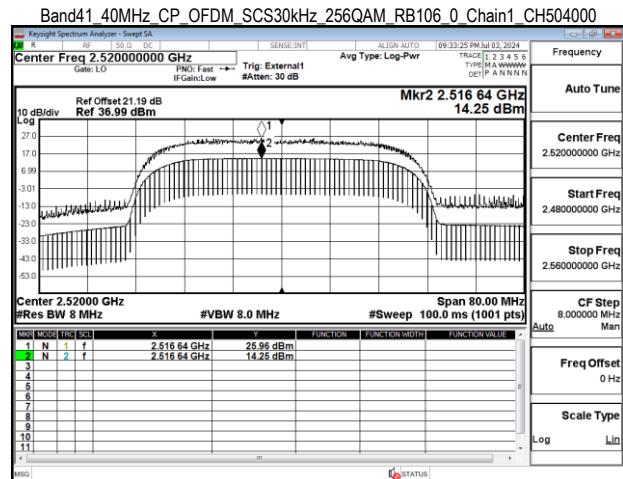
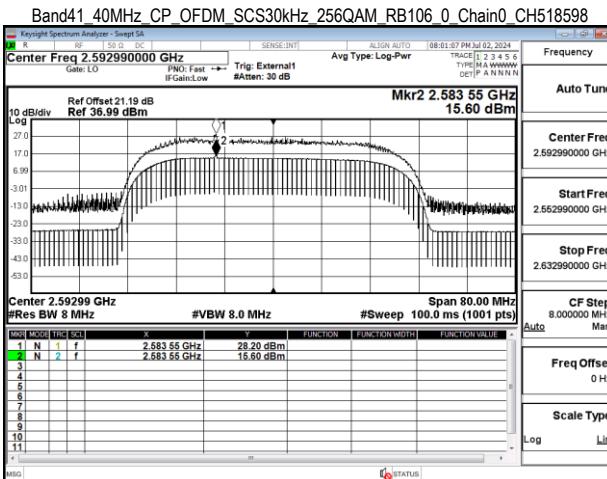
t (886-2) 2299-3279

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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](http://www.sgs.com.tw)

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