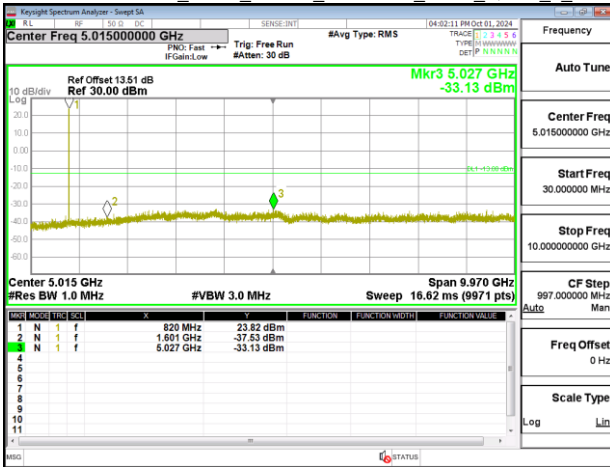
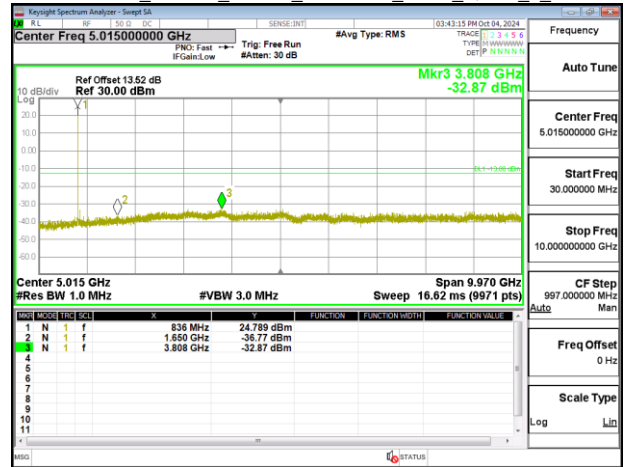


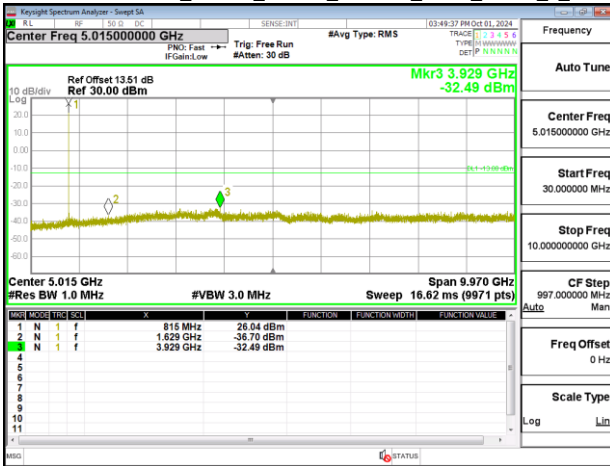
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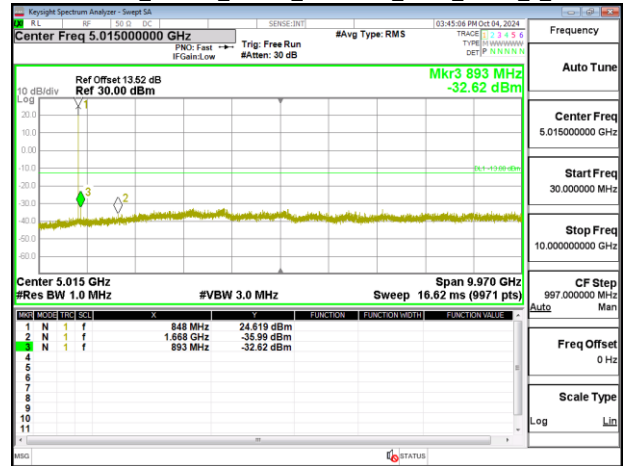
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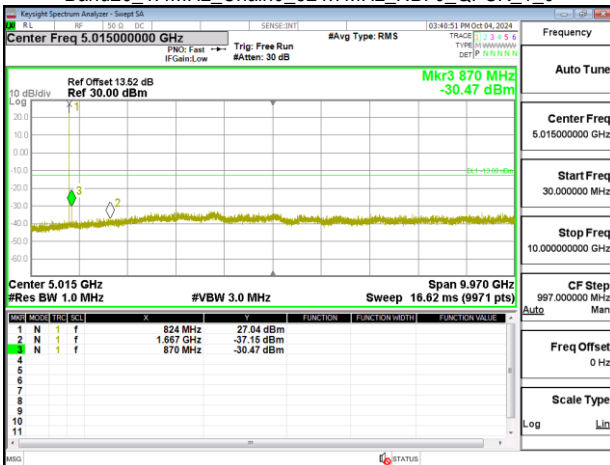
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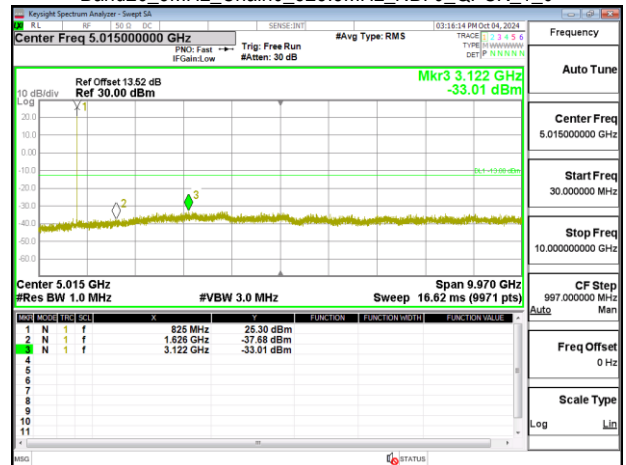
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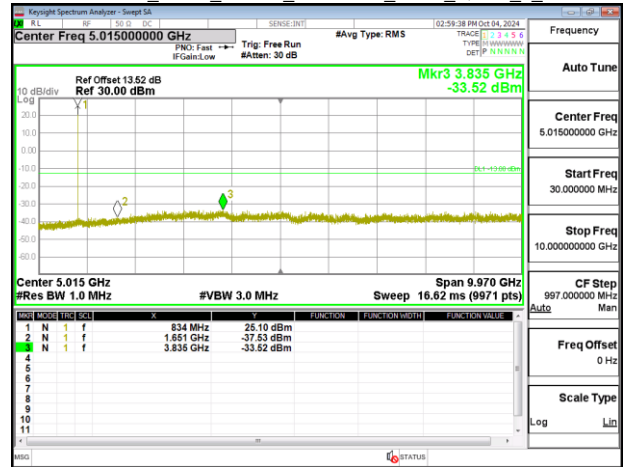
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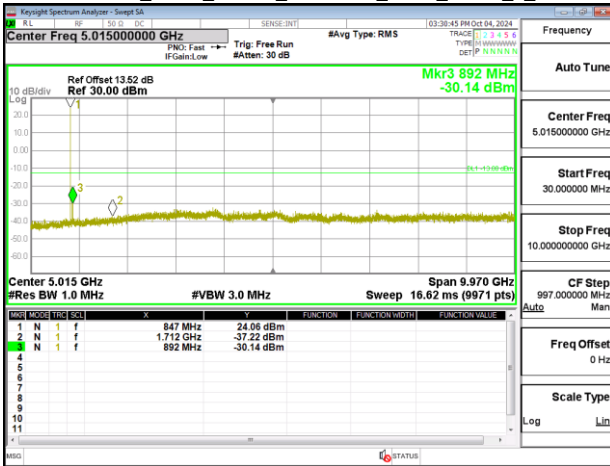
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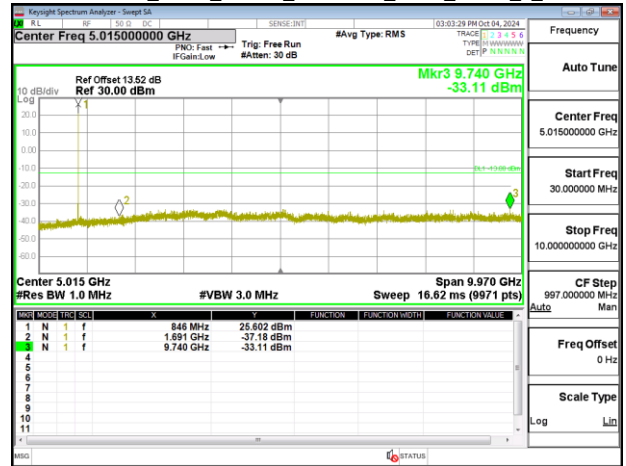
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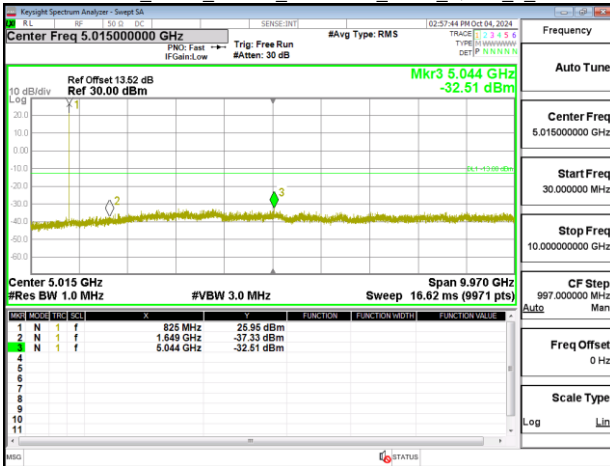
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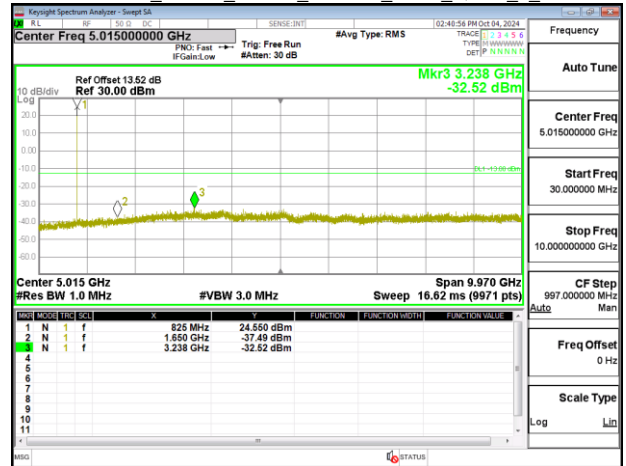
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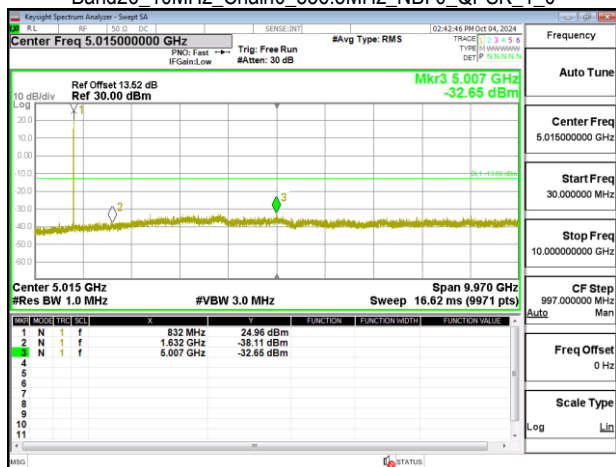


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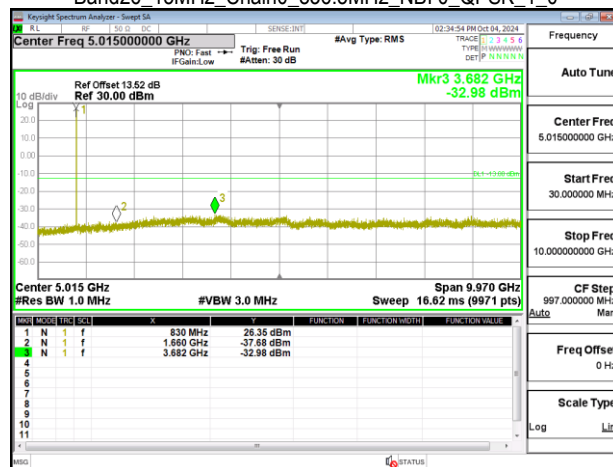
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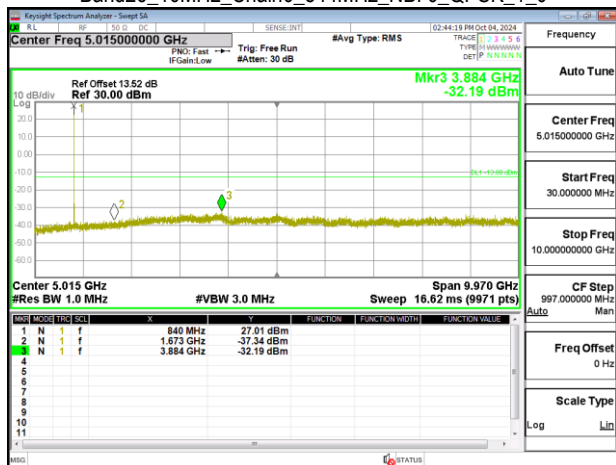
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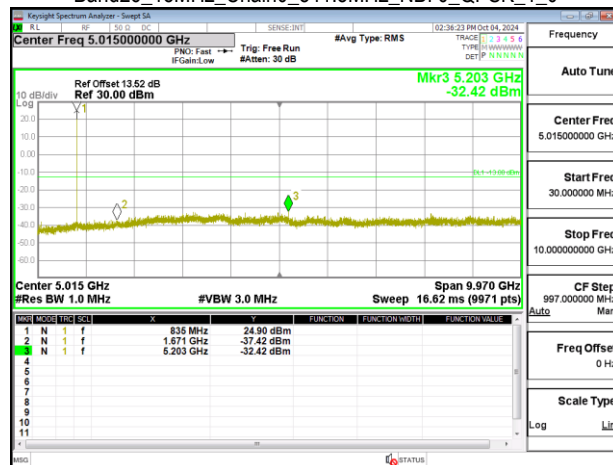
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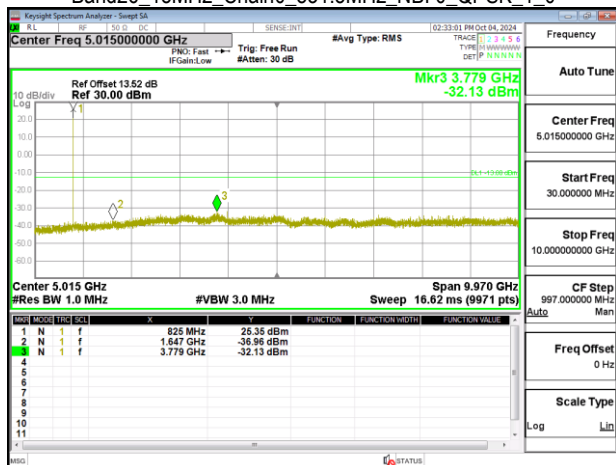
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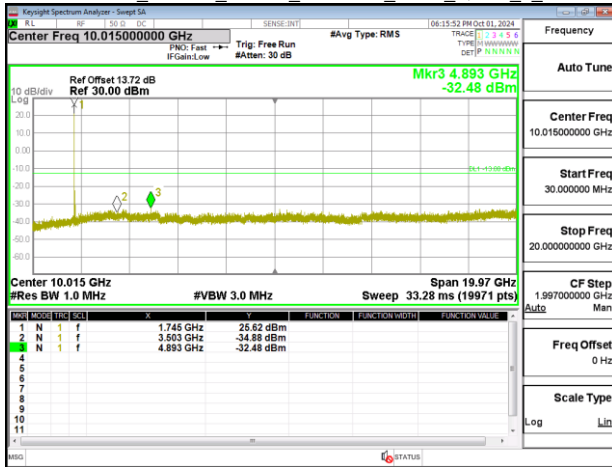


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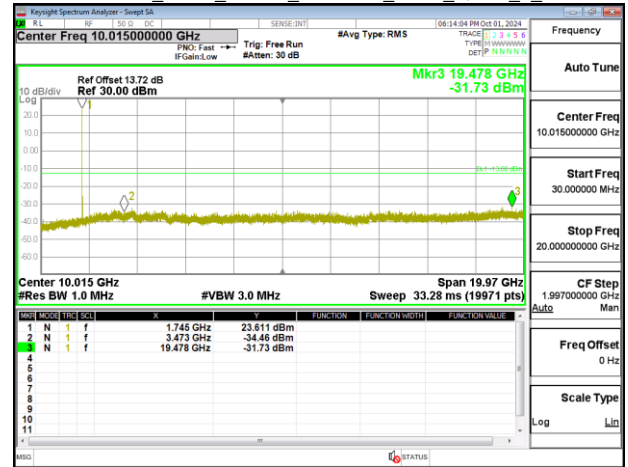
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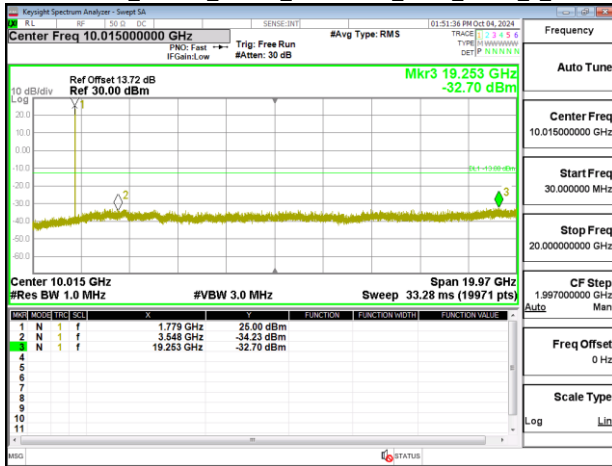
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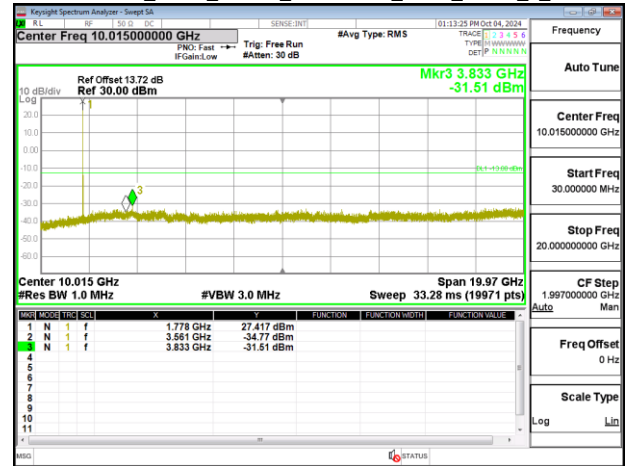
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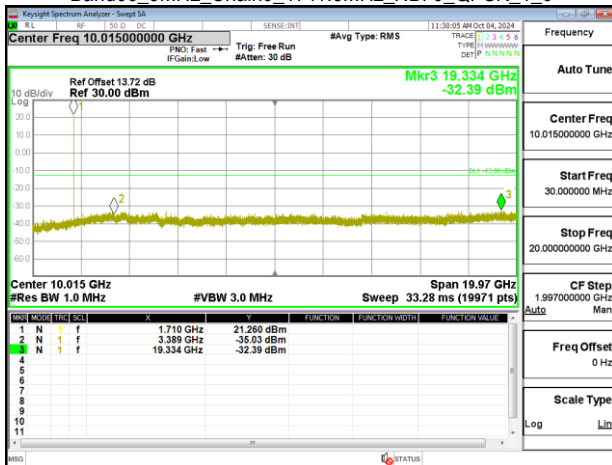
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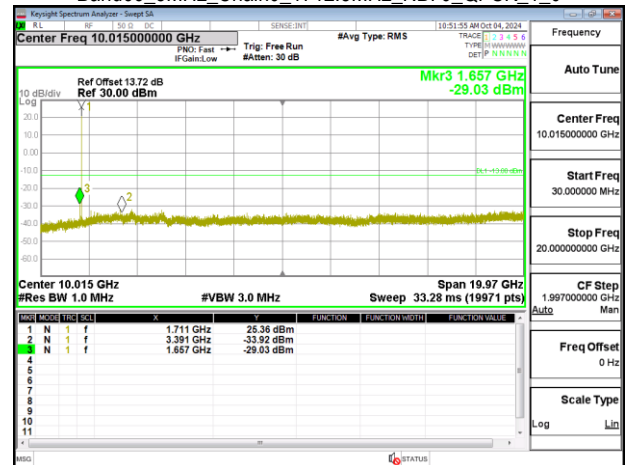
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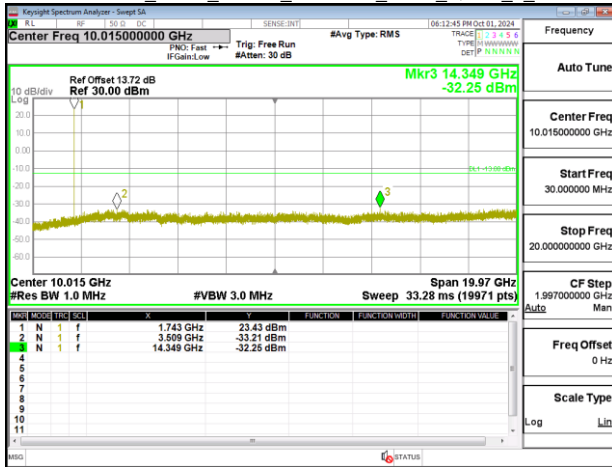


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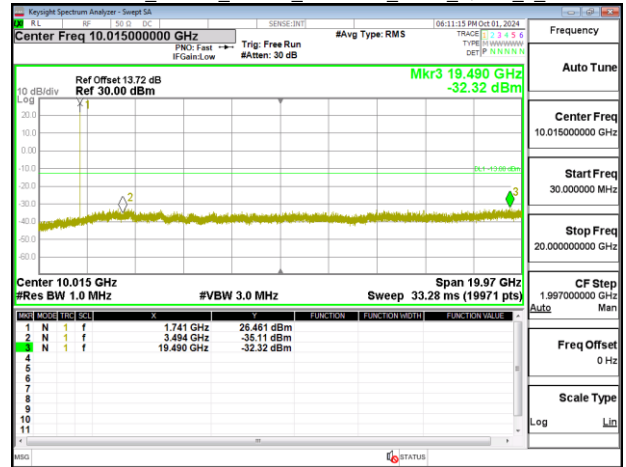
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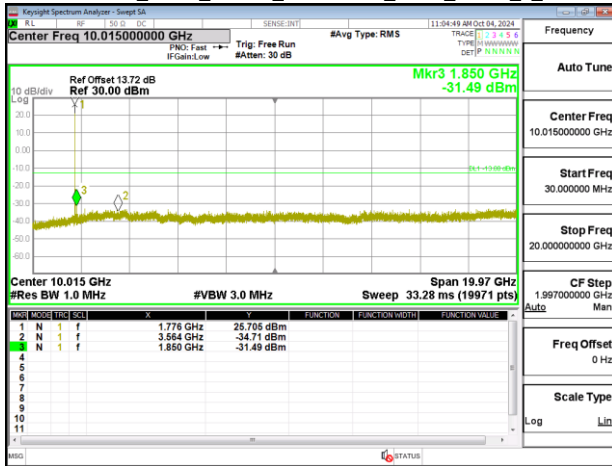
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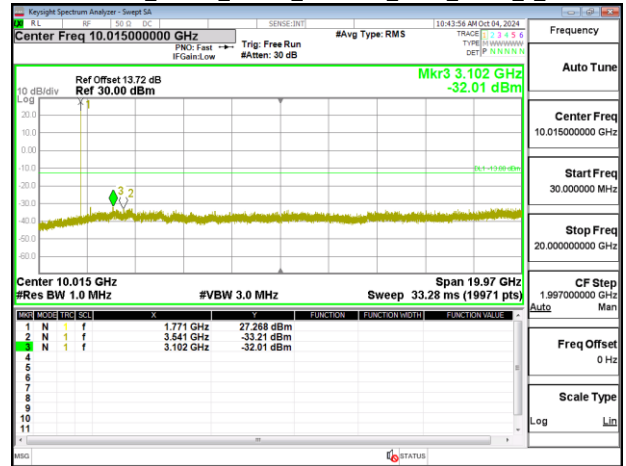
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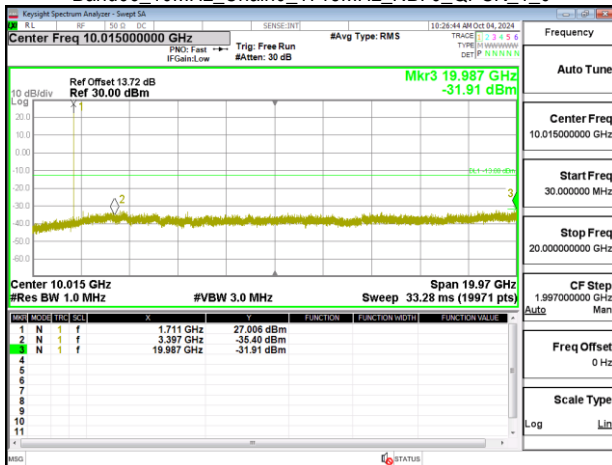
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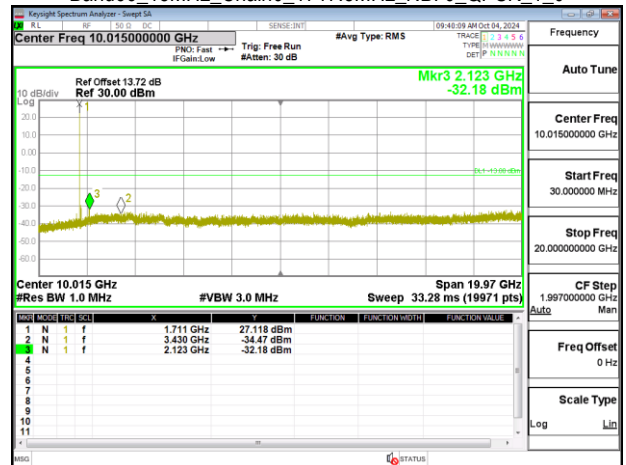
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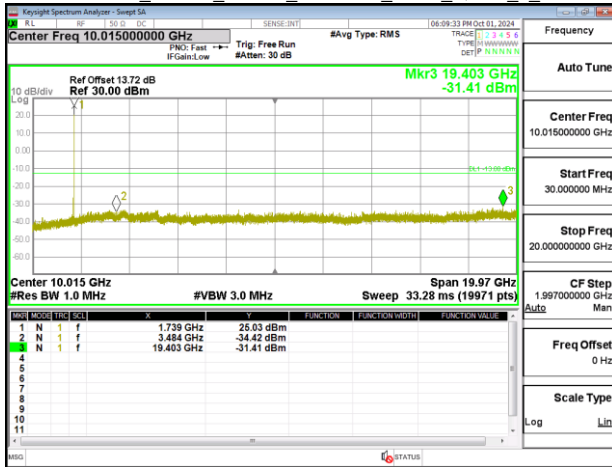


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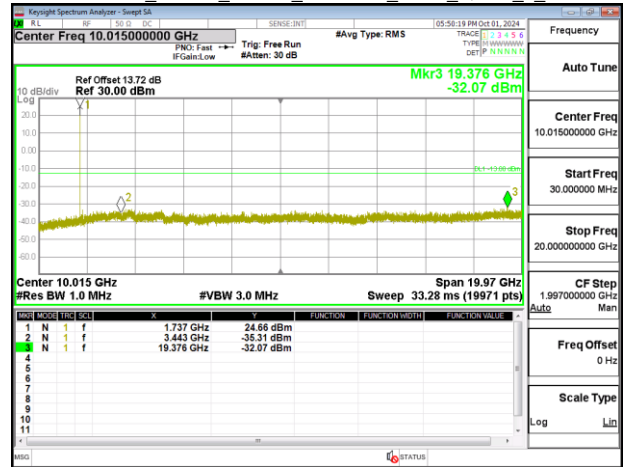
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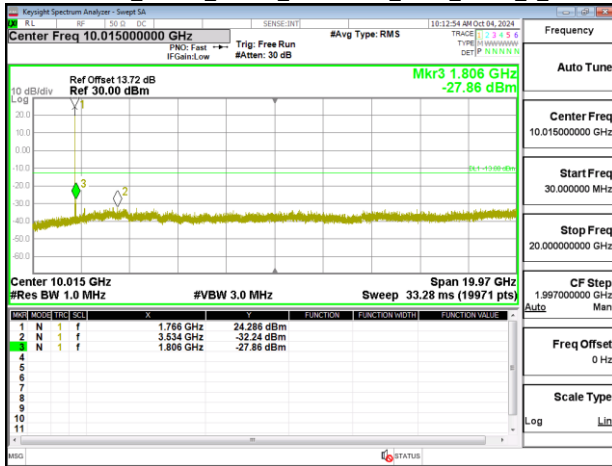
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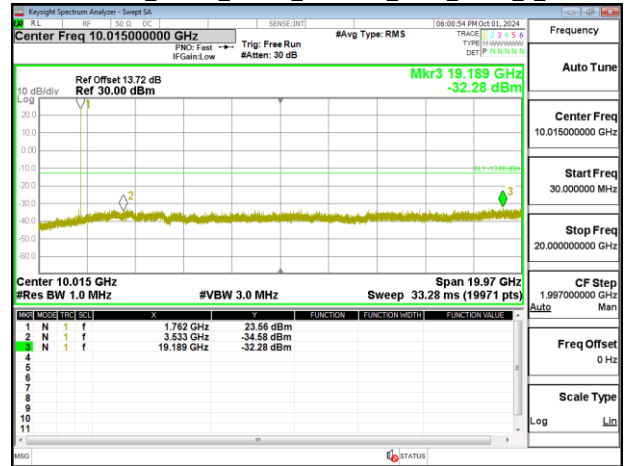
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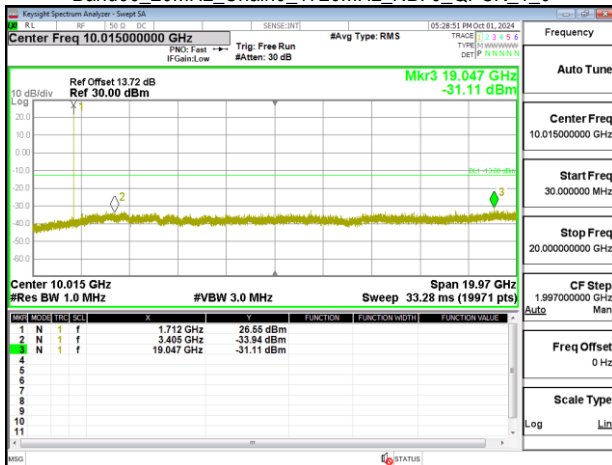
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Band66_20MHz_Chain0_1720MHz_NBI_0_QPSK_1_0



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10 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h), §90.543(e)(3)

RSS-130 §4.7, RSS-132 §5.5, RSS-133 §5.6, RSS-139 §5.6

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC §27.53(g)

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53(h)(1)

(h) *AWS emission limits*—(1) *General protection levels*. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

FCC §90.691 Emission mask requirements for EA-based systems

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

- (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

RSS-130 §4.7.1

Compliance for operations in the 617-652 MHz, 663-698 MHz, 698-756 MHz and the 777-787 MHz band, the unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

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RSS-130 §4.7.2

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

$76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and

$65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment

the e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

RSS-132 §5.5

i. Equipment shall meet the unwanted emission limits specified below:

In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB.

ii. After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB. If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

p is the output power specified in watts.

RSS-133 §5.6

Unwanted emissions shall be measured in terms of average values while the transmitter is operating at the manufacturer's rated power and modulated as specified in RSS-Gen. Equipment shall meet the unwanted emission limits, specified in table 3, outside each frequency block group. For each channel bandwidth supported by the equipment under test, the unwanted emissions shall be measured and reported for two channel frequencies: one located as close as possible to the low end and one located as close as possible to the high end of the equipment's operating frequency range. For the unwanted emission limits, in the 1 MHz bands immediately outside and adjacent to the frequency block group, the power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth (OBW). Beyond these 1 MHz bands, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth may be used, provided that the Personal Communications Service Equipment Operating in the Bands 1850-1915 MHz and 1930-1995 MHz RSS-133 6 measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% of the OBW, as applicable. For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the table 3.

Table 3: Unwanted emission limits for all equipment

Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limits
≤ 1	-13 dBm/(1% of OB*)
> 1 MHz	-13 dBm/MHz

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RSS-139 §5.6

Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

Table 6: Table 6: Unwanted emission limits	
Offset from the edge of the frequency block or frequency block group	Unwanted emission limits
1 MHz	-13 dBm/(1% of OB*)
>1 MHz	-13 dBm/MHz
Subscriber equipment	30 dBm e.i.r.p./channel bandwidth

*OB is the occupied bandwidth.

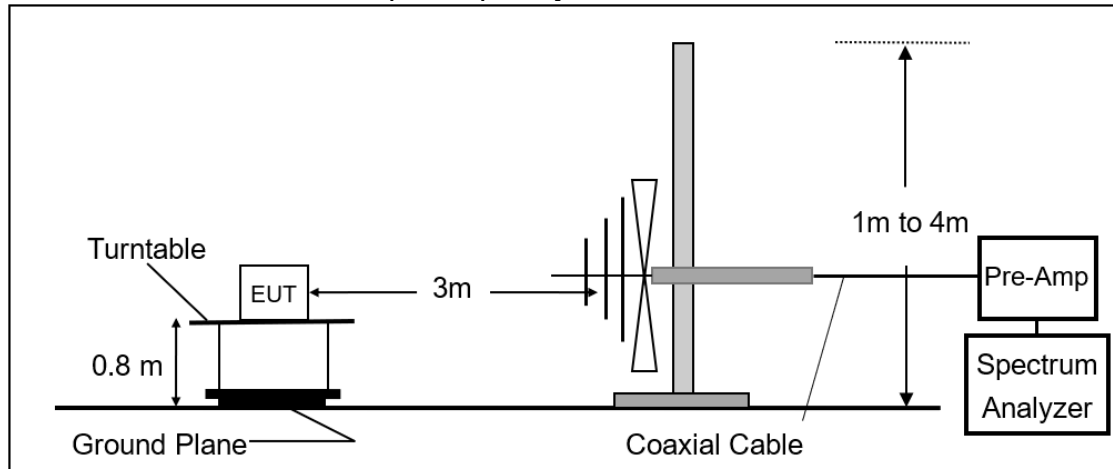
In addition to complying with the above limits, equipment operating in the band 2180-2200 MHz may require additional filtering (see SRSP-519).

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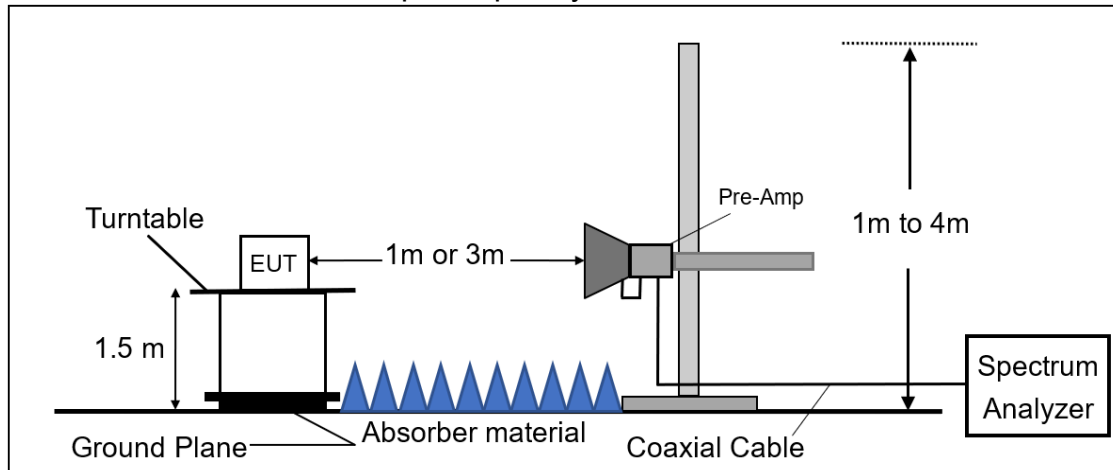
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10.2 EUT Setup

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



10.3 Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

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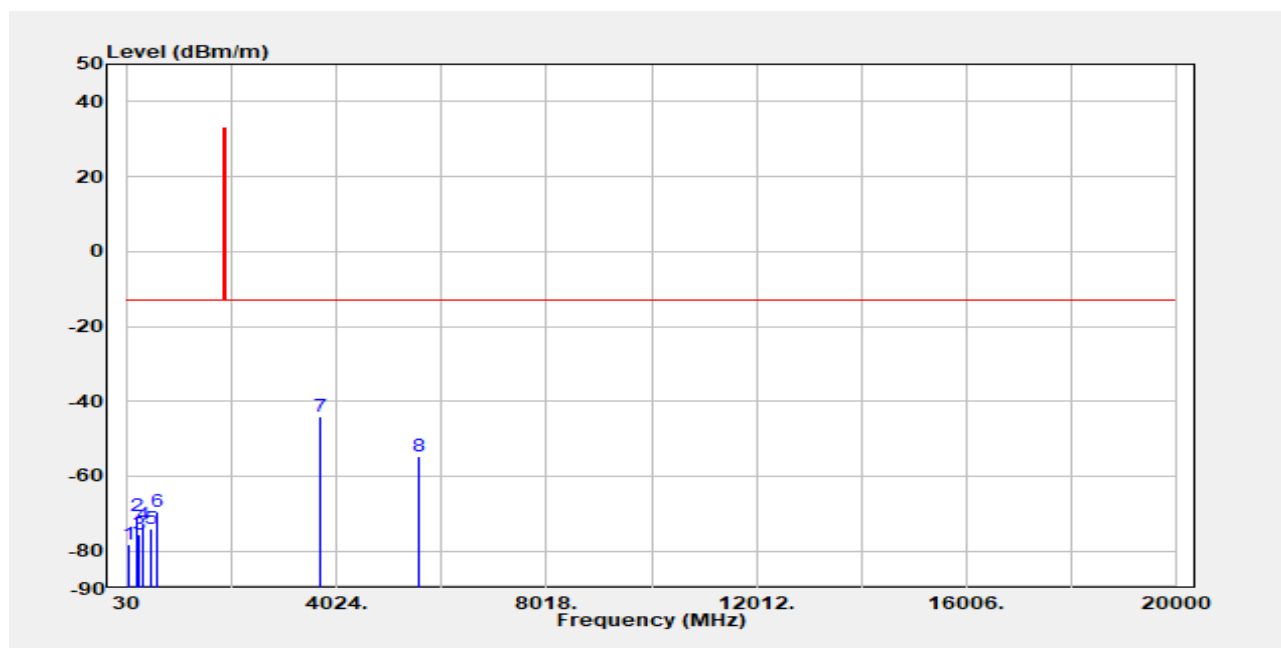
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10.4 Measurement Result:

Report Number :TERF2408002531ER
 Operation Mode :CAT-M1 B2
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :1857.5 MHz

Test Site :SAC 3
 Test Date :2024-10-16
 Temp./Humi. :24.3°C/63%
 Antenna Pol. :Vertical
 Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
52.310	-78.34	-65.43	-11.58	-1.33	-13.00	-65.34
216.240	-70.66	-72.55	4.58	-2.69	-13.00	-57.66
263.770	-75.50	-76.67	4.15	-2.98	-13.00	-62.50
328.760	-73.00	-73.55	3.87	-3.31	-13.00	-60.00
492.690	-74.00	-73.92	3.97	-4.05	-13.00	-61.00
605.210	-69.41	-68.34	3.41	-4.49	-13.00	-56.41
3715.000	-44.21	-45.34	12.50	-11.37	-13.00	-31.21
5572.500	-54.66	-53.67	13.09	-14.09	-13.00	-41.66

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B2

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1857.5 MHz

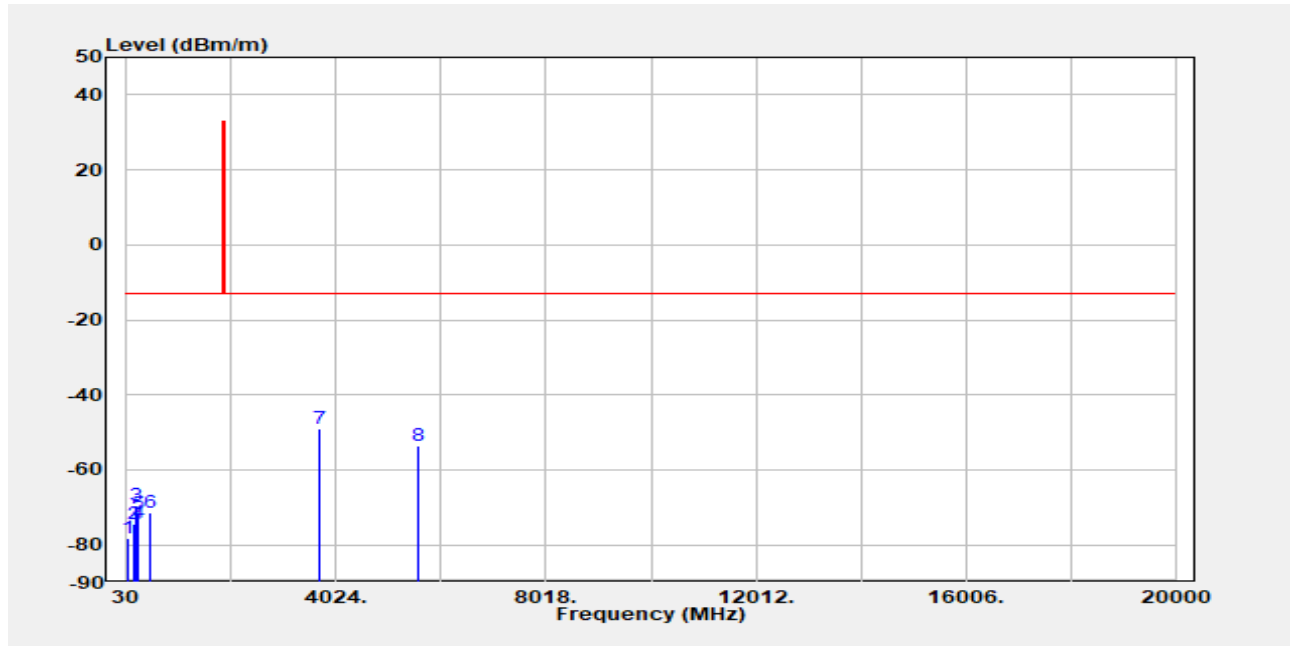
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Horizontal

Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
64.920	-78.31	-68.46	-8.38	-1.47	-13.00	-65.31
167.740	-74.46	-71.74	-0.35	-2.37	-13.00	-61.46
216.240	-69.60	-71.49	4.58	-2.69	-13.00	-56.60
235.640	-73.95	-75.10	3.96	-2.80	-13.00	-60.95
263.770	-71.67	-72.84	4.15	-2.98	-13.00	-58.67
492.690	-71.45	-71.37	3.97	-4.05	-13.00	-58.45
3715.000	-48.85	-49.98	12.50	-11.37	-13.00	-35.85
5572.500	-53.47	-52.48	13.09	-14.09	-13.00	-40.47

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B2

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1880 MHz

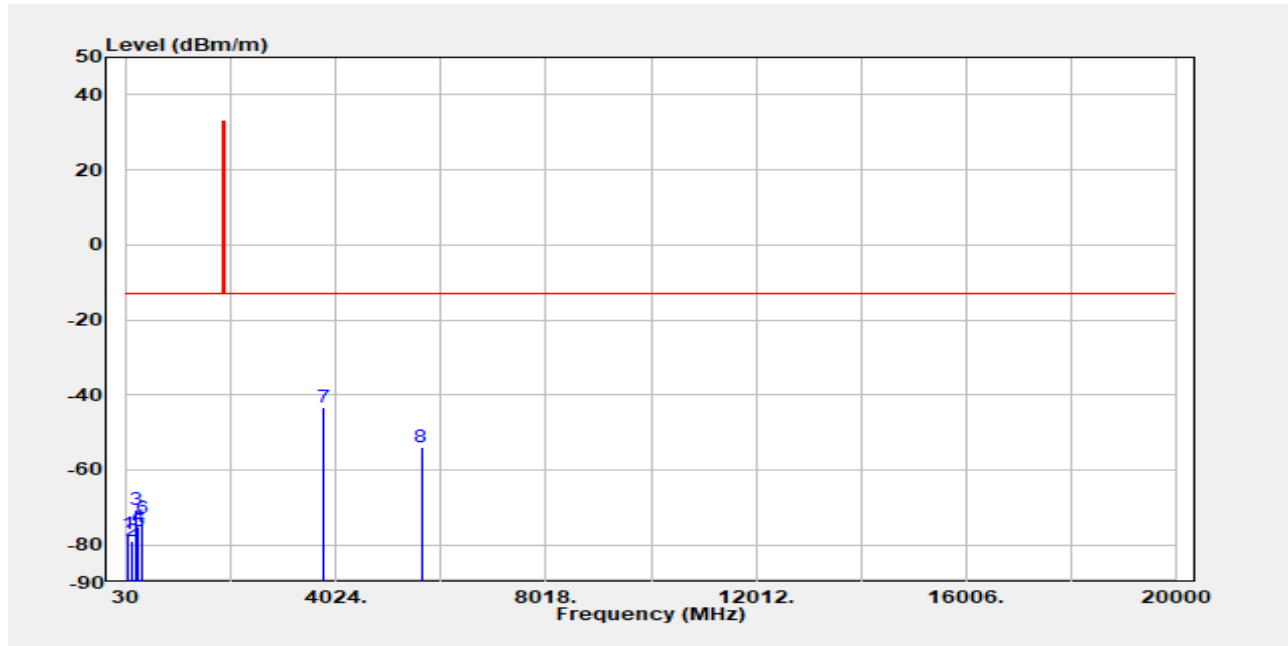
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Vertical

Engineer :Cooper Hsu



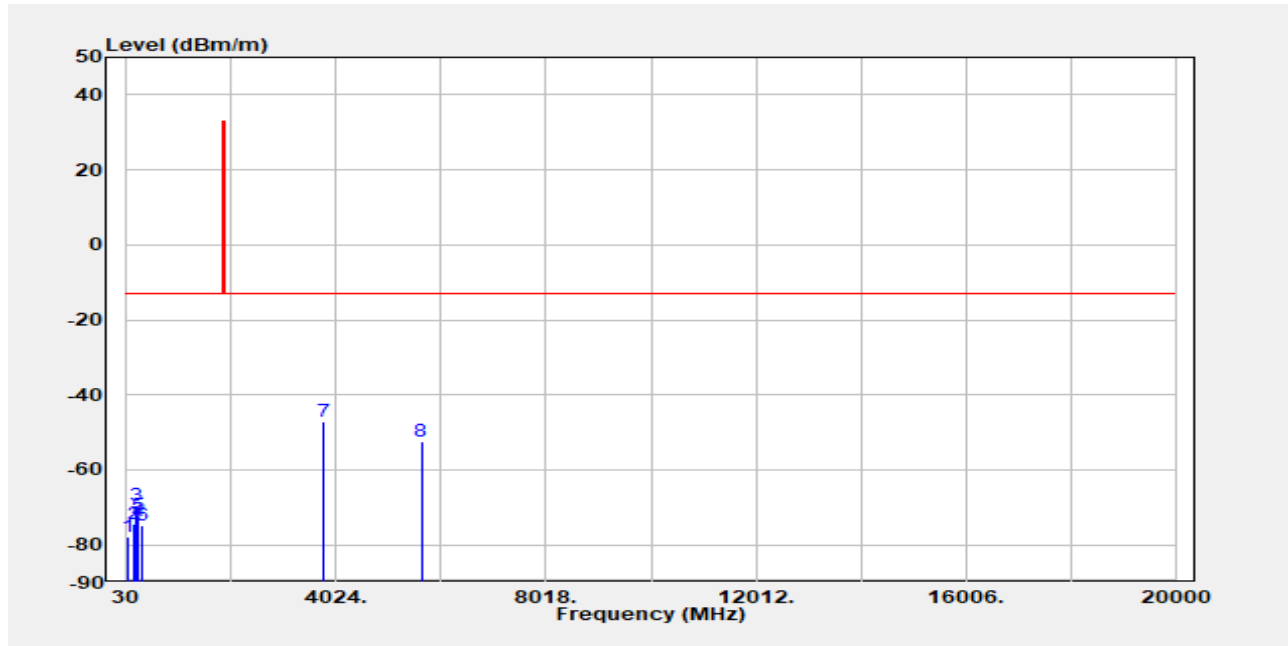
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
52.310	-77.02	-64.11	-11.58	-1.33	-13.00	-64.02
133.790	-78.89	-75.03	-1.75	-2.12	-13.00	-65.89
216.240	-70.47	-72.36	4.58	-2.69	-13.00	-57.47
231.760	-75.20	-76.88	4.46	-2.78	-13.00	-62.20
263.770	-76.34	-77.51	4.15	-2.98	-13.00	-63.34
328.760	-72.85	-73.40	3.87	-3.31	-13.00	-59.85
3760.000	-43.25	-44.31	12.50	-11.44	-13.00	-30.25
5640.000	-53.91	-53.02	13.28	-14.17	-13.00	-40.91

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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B2
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1880 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
65.890	-77.74	-68.45	-7.80	-1.48	-13.00	-64.74
167.740	-74.46	-71.74	-0.35	-2.37	-13.00	-61.46
216.240	-69.38	-71.27	4.58	-2.69	-13.00	-56.38
231.760	-73.56	-75.24	4.46	-2.78	-13.00	-60.56
263.770	-72.25	-73.42	4.15	-2.98	-13.00	-59.25
309.360	-74.87	-75.48	3.82	-3.21	-13.00	-61.87
3760.000	-47.22	-48.28	12.50	-11.44	-13.00	-34.22
5640.000	-52.42	-51.53	13.28	-14.17	-13.00	-39.42

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B2

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1902.5 MHz

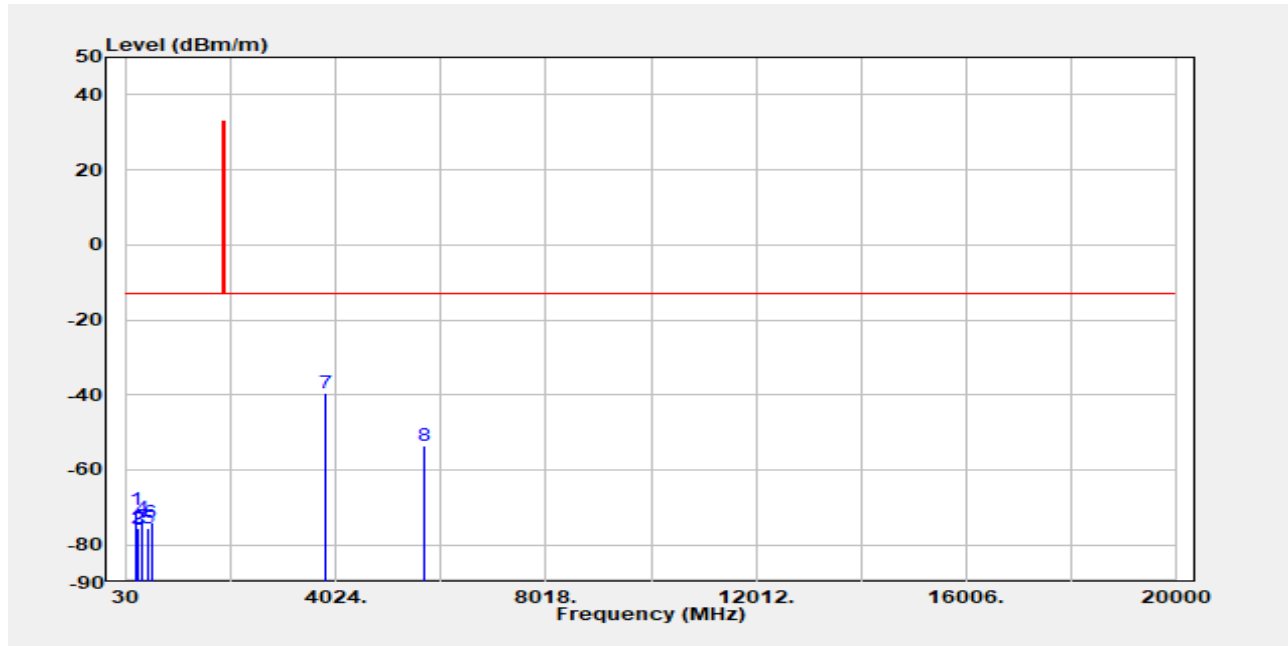
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Vertical

Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
216.240	-70.72	-72.61	4.58	-2.69	-13.00	-57.72
230.790	-75.43	-77.25	4.60	-2.77	-13.00	-62.43
263.770	-75.80	-76.97	4.15	-2.98	-13.00	-62.80
329.730	-72.79	-73.33	3.85	-3.32	-13.00	-59.79
453.890	-75.40	-75.33	3.82	-3.89	-13.00	-62.40
494.630	-74.16	-74.07	3.97	-4.06	-13.00	-61.16
3805.000	-39.65	-40.63	12.49	-11.51	-13.00	-26.65
5707.500	-53.75	-52.59	13.10	-14.26	-13.00	-40.75

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B2

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1902.5 MHz

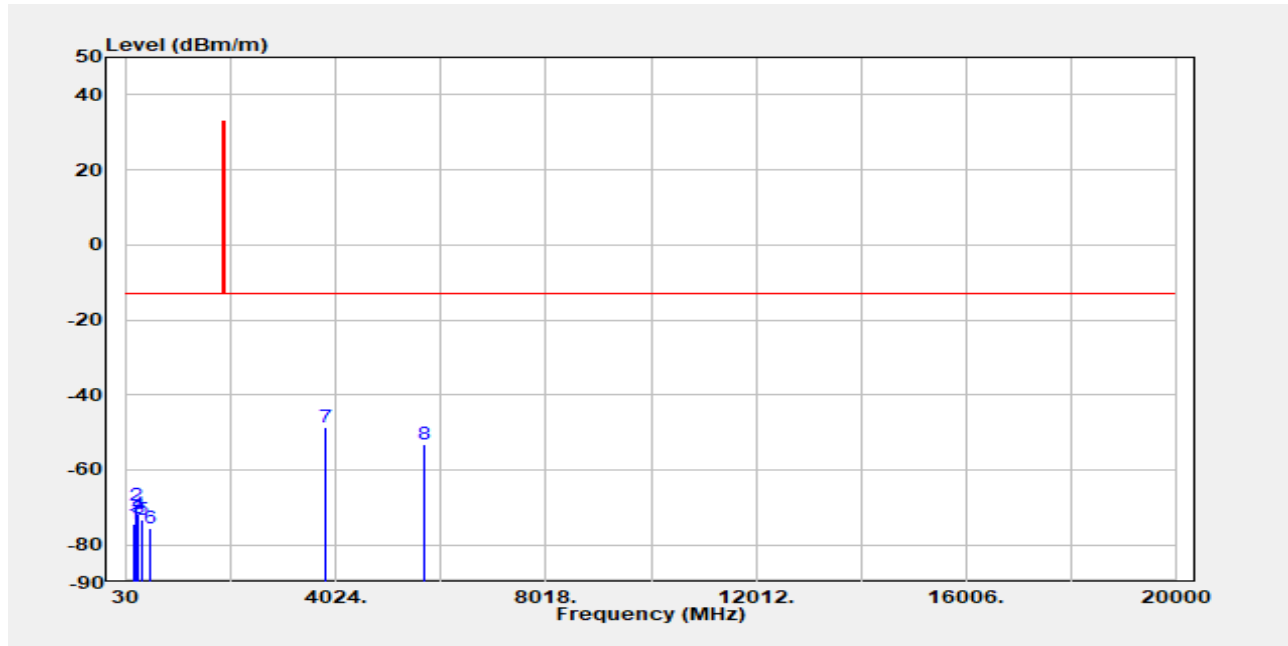
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Horizontal

Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
167.740	-74.55	-71.83	-0.35	-2.37	-13.00	-61.55
216.240	-69.40	-71.29	4.58	-2.69	-13.00	-56.40
231.760	-72.94	-74.62	4.46	-2.78	-13.00	-59.94
263.770	-71.82	-72.99	4.15	-2.98	-13.00	-58.82
329.730	-73.32	-73.86	3.85	-3.32	-13.00	-60.32
492.690	-75.50	-75.42	3.97	-4.05	-13.00	-62.50
3805.000	-48.57	-49.55	12.49	-11.51	-13.00	-35.57
5707.500	-53.17	-52.01	13.10	-14.26	-13.00	-40.17

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B4

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1717.5 MHz

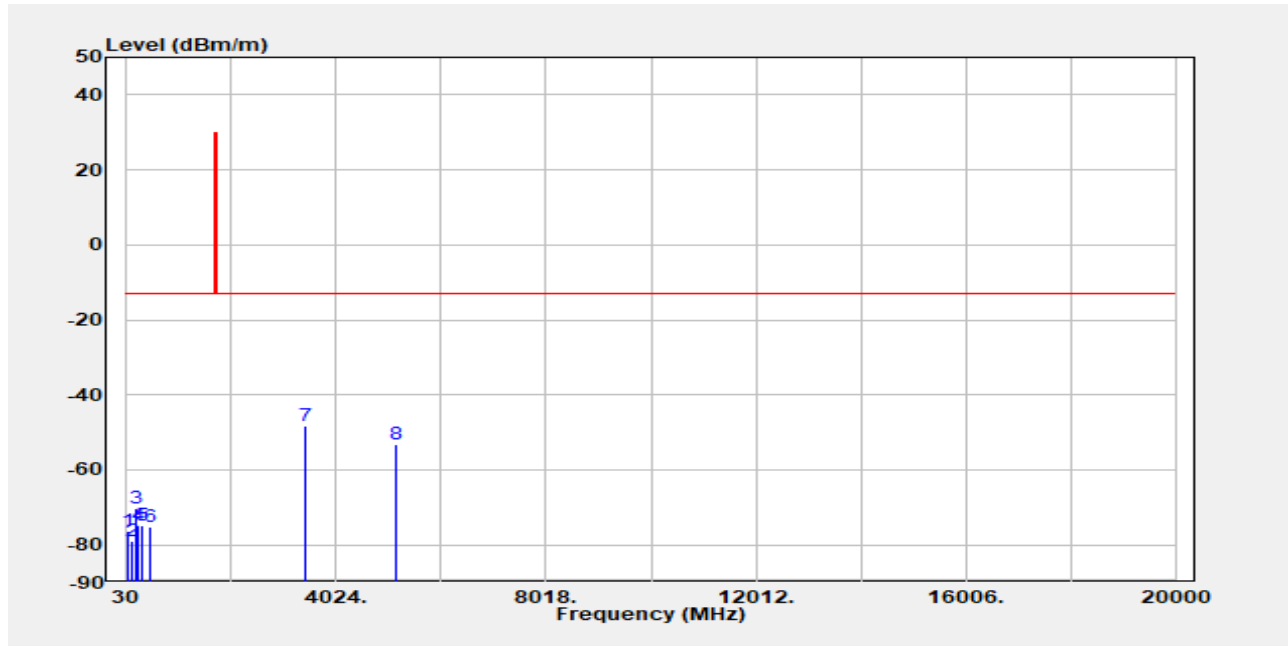
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Vertical

Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
52.310	-76.20	-63.29	-11.58	-1.33	-13.00	-63.20
133.790	-78.85	-74.99	-1.75	-2.12	-13.00	-65.85
216.240	-70.27	-72.16	4.58	-2.69	-13.00	-57.27
233.700	-74.92	-76.31	4.18	-2.79	-13.00	-61.92
327.790	-75.00	-75.57	3.88	-3.31	-13.00	-62.00
492.690	-75.36	-75.28	3.97	-4.05	-13.00	-62.36
3435.000	-48.08	-49.76	12.60	-10.93	-13.00	-35.08
5152.500	-53.39	-52.28	12.41	-13.51	-13.00	-40.39

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B4

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1717.5 MHz

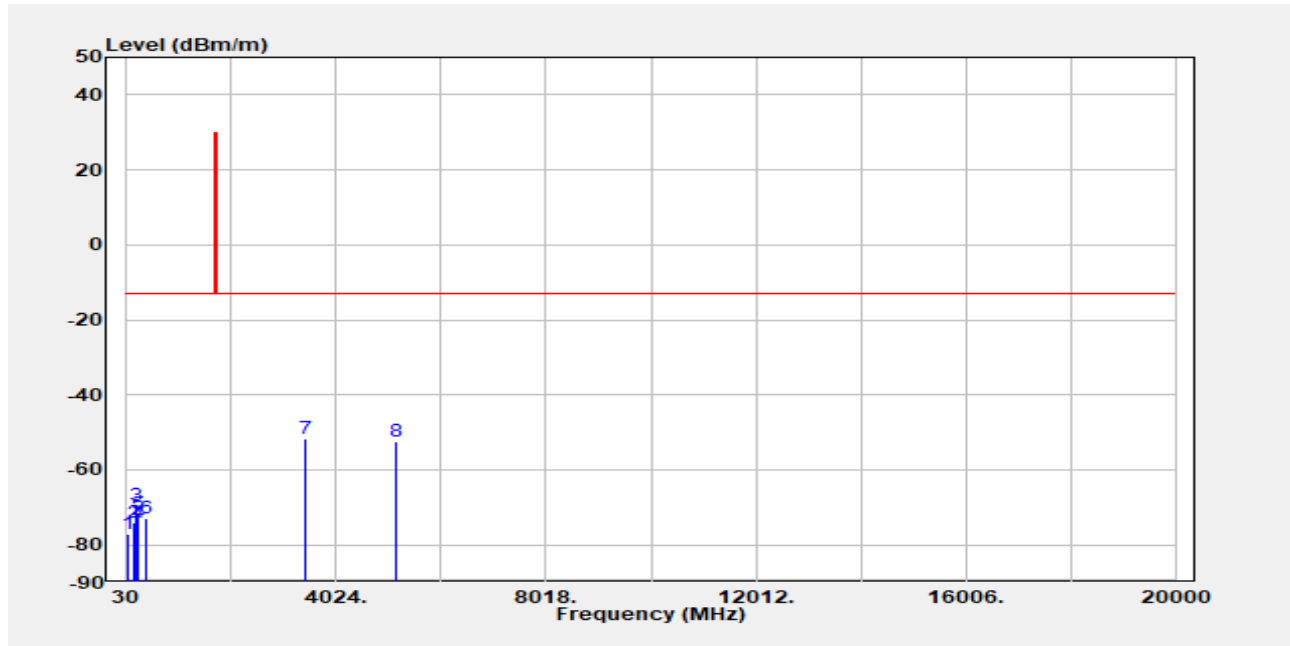
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Horizontal

Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
66.860	-77.14	-67.94	-7.70	-1.50	-13.00	-64.14
167.740	-74.06	-71.33	-0.35	-2.37	-13.00	-61.06
216.240	-69.46	-71.35	4.58	-2.69	-13.00	-56.46
231.760	-73.97	-75.65	4.46	-2.78	-13.00	-60.97
263.770	-71.93	-73.10	4.15	-2.98	-13.00	-58.93
391.810	-72.98	-73.27	3.90	-3.61	-13.00	-59.98
3435.000	-51.82	-53.49	12.60	-10.93	-13.00	-38.82
5152.500	-52.61	-51.50	12.41	-13.51	-13.00	-39.61

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

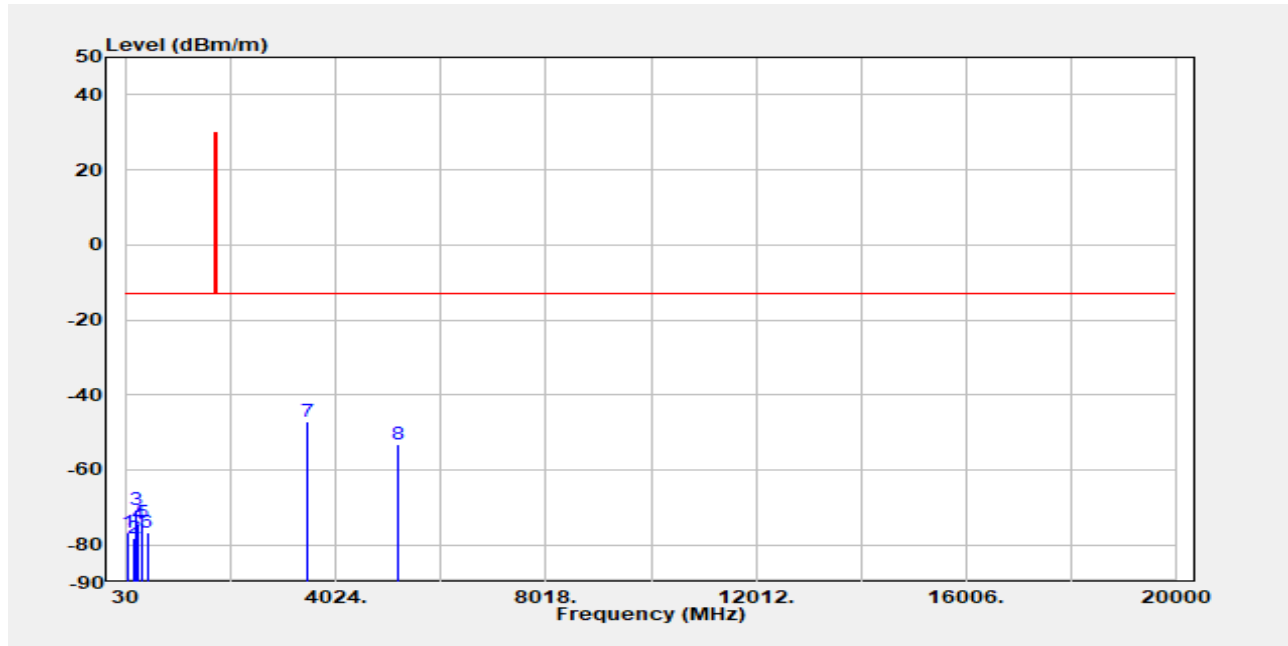
f (886-2) 2298-0488

www.sgs.com.tw

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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B4
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1732.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
52.310	-76.56	-63.65	-11.58	-1.33	-13.00	-63.56
167.740	-78.08	-75.36	-0.35	-2.37	-13.00	-65.08
216.240	-70.63	-72.52	4.58	-2.69	-13.00	-57.63
231.760	-74.55	-76.23	4.46	-2.78	-13.00	-61.55
328.760	-74.24	-74.79	3.87	-3.31	-13.00	-61.24
418.000	-76.82	-77.23	4.14	-3.73	-13.00	-63.82
3465.000	-47.25	-48.82	12.54	-10.97	-13.00	-34.25
5197.500	-53.37	-52.38	12.59	-13.58	-13.00	-40.37

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B4

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1732.5 MHz

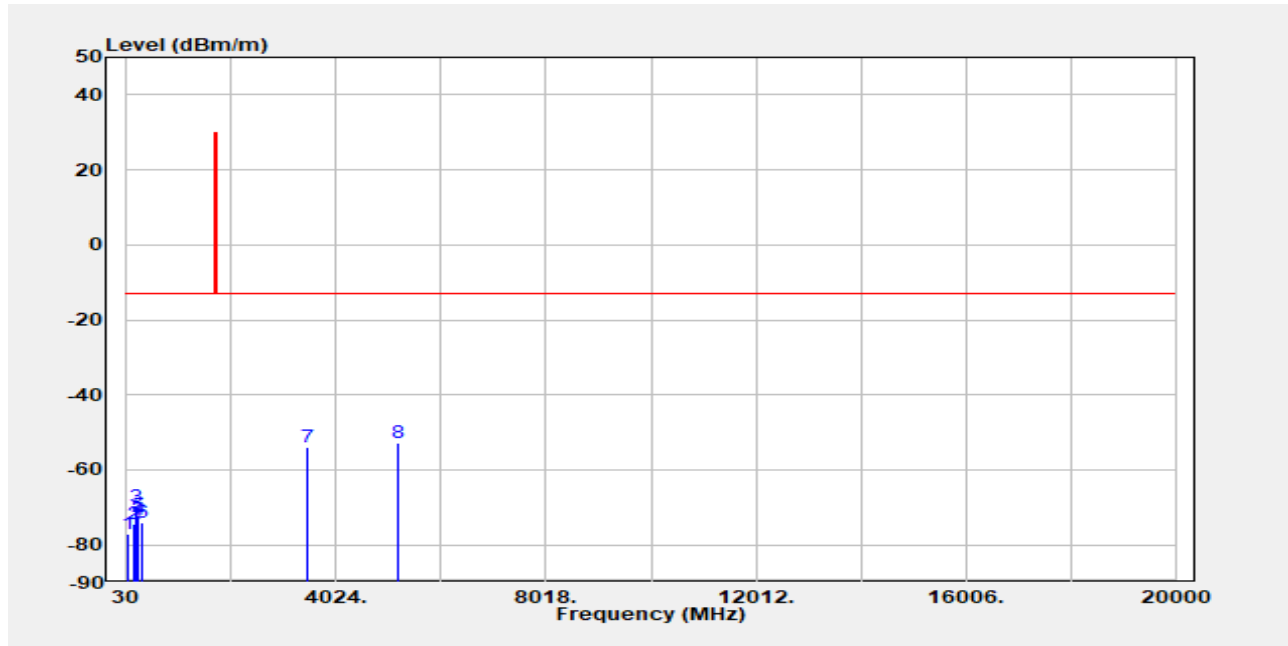
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Horizontal

Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
64.920	-77.27	-67.42	-8.38	-1.47	-13.00	-64.27
167.740	-74.57	-71.85	-0.35	-2.37	-13.00	-61.57
216.240	-69.80	-71.70	4.58	-2.69	-13.00	-56.80
233.700	-73.25	-74.64	4.18	-2.79	-13.00	-60.25
263.770	-72.24	-73.41	4.15	-2.98	-13.00	-59.24
328.760	-73.97	-74.53	3.87	-3.31	-13.00	-60.97
3465.000	-53.90	-55.47	12.54	-10.97	-13.00	-40.90
5197.500	-52.96	-51.98	12.59	-13.58	-13.00	-39.96

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B4

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1747.5 MHz

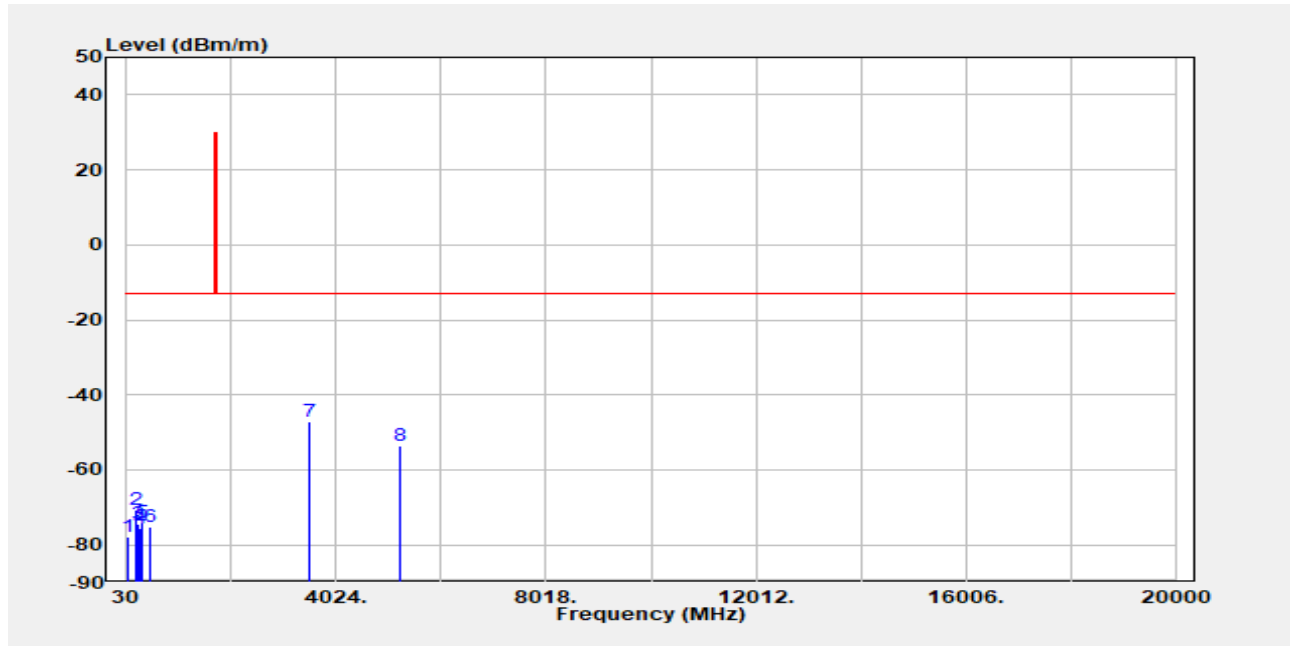
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Vertical

Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
52.310	-78.02	-65.11	-11.58	-1.33	-13.00	-65.02
216.240	-70.73	-72.62	4.58	-2.69	-13.00	-57.73
231.760	-74.53	-76.21	4.46	-2.78	-13.00	-61.53
295.780	-75.74	-76.39	3.79	-3.14	-13.00	-62.74
328.760	-74.00	-74.55	3.87	-3.31	-13.00	-61.00
467.470	-75.04	-74.96	3.87	-3.95	-13.00	-62.04
3495.000	-46.98	-48.37	12.42	-11.02	-13.00	-33.98
5242.500	-53.39	-52.61	12.86	-13.64	-13.00	-40.39

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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

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www.sgs.com.tw

Member of SGS Group

Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B4

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1747.5 MHz

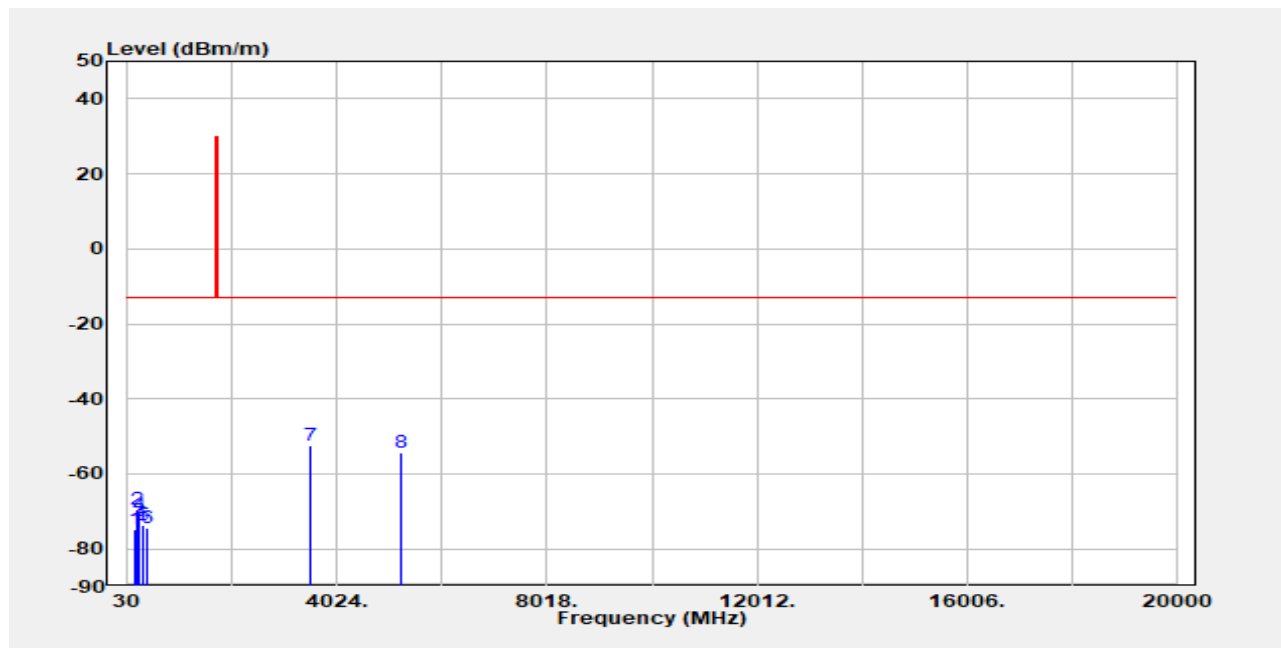
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Horizontal

Engineer :Cooper Hsu



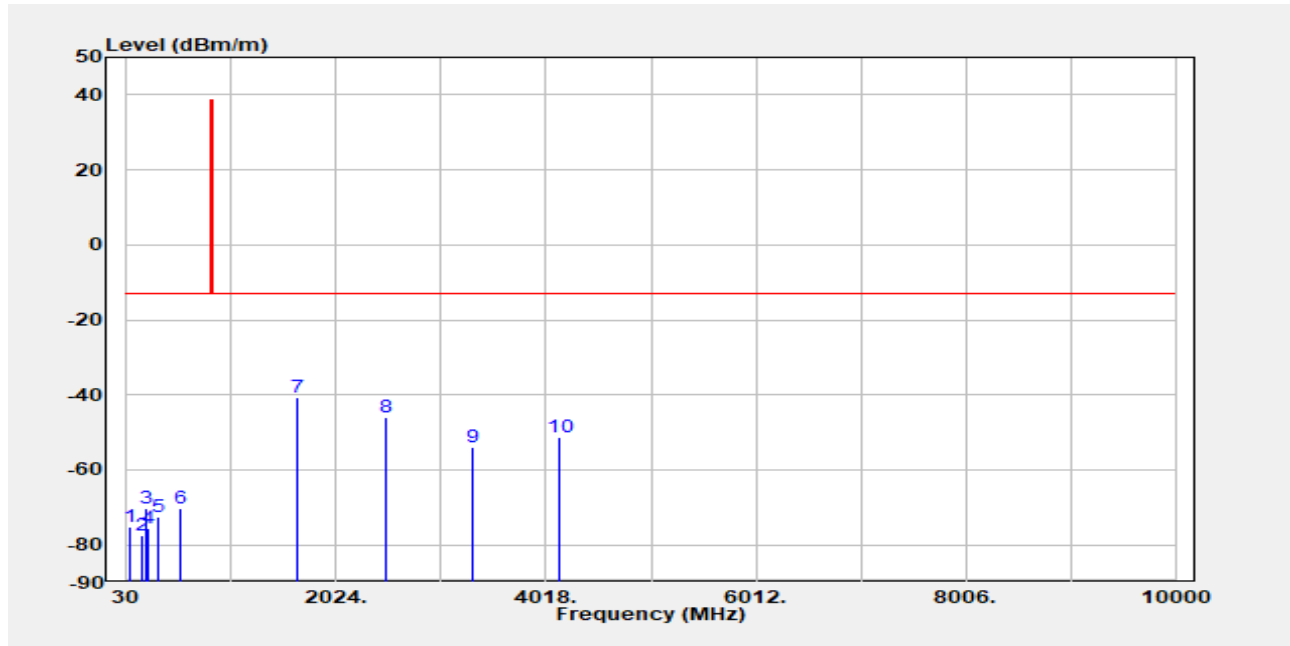
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
167.740	-74.80	-72.08	-0.35	-2.37	-13.00	-61.80
216.240	-69.33	-71.22	4.58	-2.69	-13.00	-56.33
235.640	-72.69	-73.85	3.96	-2.80	-13.00	-59.69
263.770	-71.20	-72.37	4.15	-2.98	-13.00	-58.20
328.760	-73.79	-74.35	3.87	-3.31	-13.00	-60.79
413.150	-74.35	-74.75	4.10	-3.71	-13.00	-61.35
3495.000	-52.46	-53.86	12.42	-11.02	-13.00	-39.46
5242.500	-54.21	-53.43	12.86	-13.64	-13.00	-41.21

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Report Number :TERF2408002531ER
 Operation Mode :CAT-M1 B5
 Test Mode :Tx
 EUT Pol :H Plane
 Test Frequency :829 MHz

Test Site :SAC 3
 Test Date :2024-10-16
 Temp./Humi. :24.3°C/63%
 Antenna Pol. :Vertical
 Engineer :Cooper Hsu



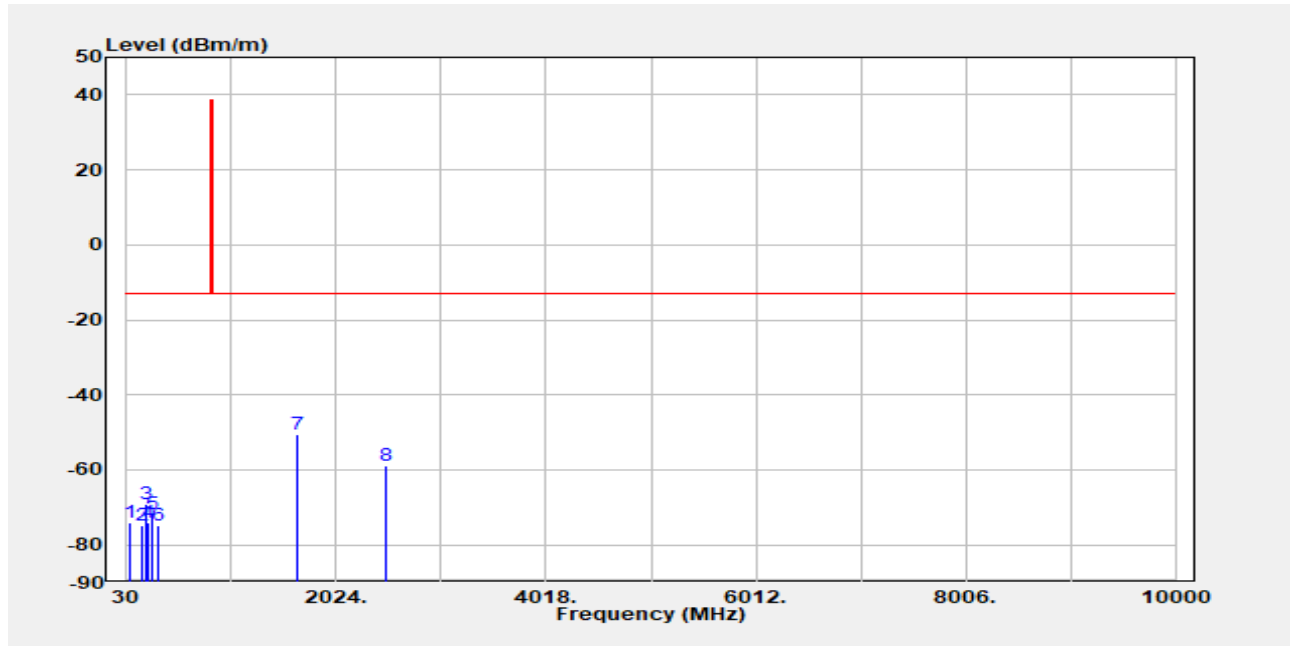
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
63.950	-75.15	-65.07	-8.61	-1.46	-13.00	-62.15
177.440	-77.57	-76.04	0.91	-2.43	-13.00	-64.57
216.240	-70.27	-72.16	4.58	-2.69	-13.00	-57.27
233.700	-75.55	-76.95	4.18	-2.79	-13.00	-62.55
328.760	-72.55	-73.11	3.87	-3.31	-13.00	-59.55
547.010	-70.34	-70.61	4.54	-4.27	-13.00	-57.34
1658.000	-40.70	-42.80	9.58	-7.48	-13.00	-27.70
2487.000	-45.90	-47.15	10.50	-9.25	-13.00	-32.90
3316.000	-54.06	-55.66	12.33	-10.74	-13.00	-41.06
4145.000	-51.43	-51.89	12.51	-12.04	-13.00	-38.43

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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B5
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :829 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



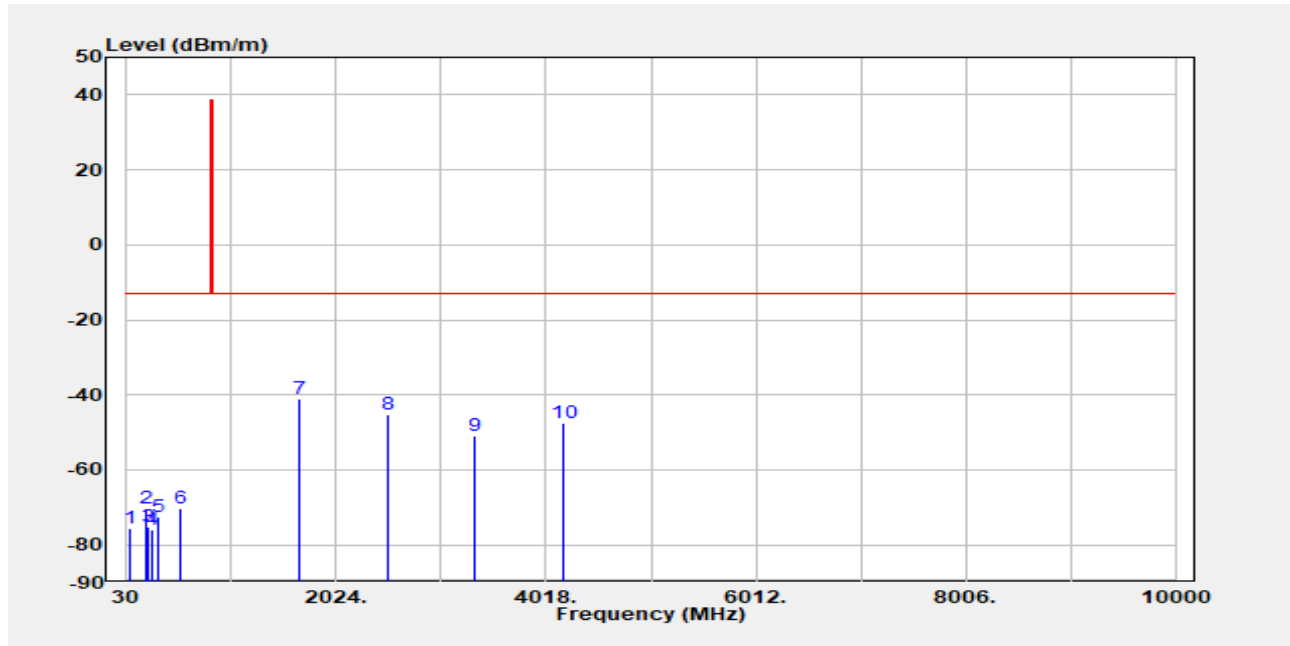
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
63.950	-74.06	-63.99	-8.61	-1.46	-13.00	-61.06
167.740	-74.69	-71.97	-0.35	-2.37	-13.00	-61.69
216.240	-69.09	-70.98	4.58	-2.69	-13.00	-56.09
230.790	-74.04	-75.87	4.60	-2.77	-13.00	-61.04
263.770	-71.65	-72.82	4.15	-2.98	-13.00	-58.65
328.760	-74.97	-75.52	3.87	-3.31	-13.00	-61.97
1658.000	-50.67	-52.77	9.58	-7.48	-13.00	-37.67
2487.000	-58.87	-60.13	10.50	-9.25	-13.00	-45.87

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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B5
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :836.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
63.950	-75.53	-65.46	-8.61	-1.46	-13.00	-62.53
216.240	-70.22	-72.11	4.58	-2.69	-13.00	-57.22
231.760	-75.14	-76.82	4.46	-2.78	-13.00	-62.14
263.770	-75.96	-77.13	4.15	-2.98	-13.00	-62.96
329.730	-72.43	-72.96	3.85	-3.32	-13.00	-59.43
546.040	-70.39	-70.66	4.53	-4.26	-13.00	-57.39
1673.000	-41.13	-43.35	9.73	-7.52	-13.00	-28.13
2509.500	-45.17	-46.58	10.70	-9.29	-13.00	-32.17
3346.000	-50.76	-52.37	12.39	-10.78	-13.00	-37.76
4182.500	-47.35	-47.75	12.50	-12.10	-13.00	-34.35

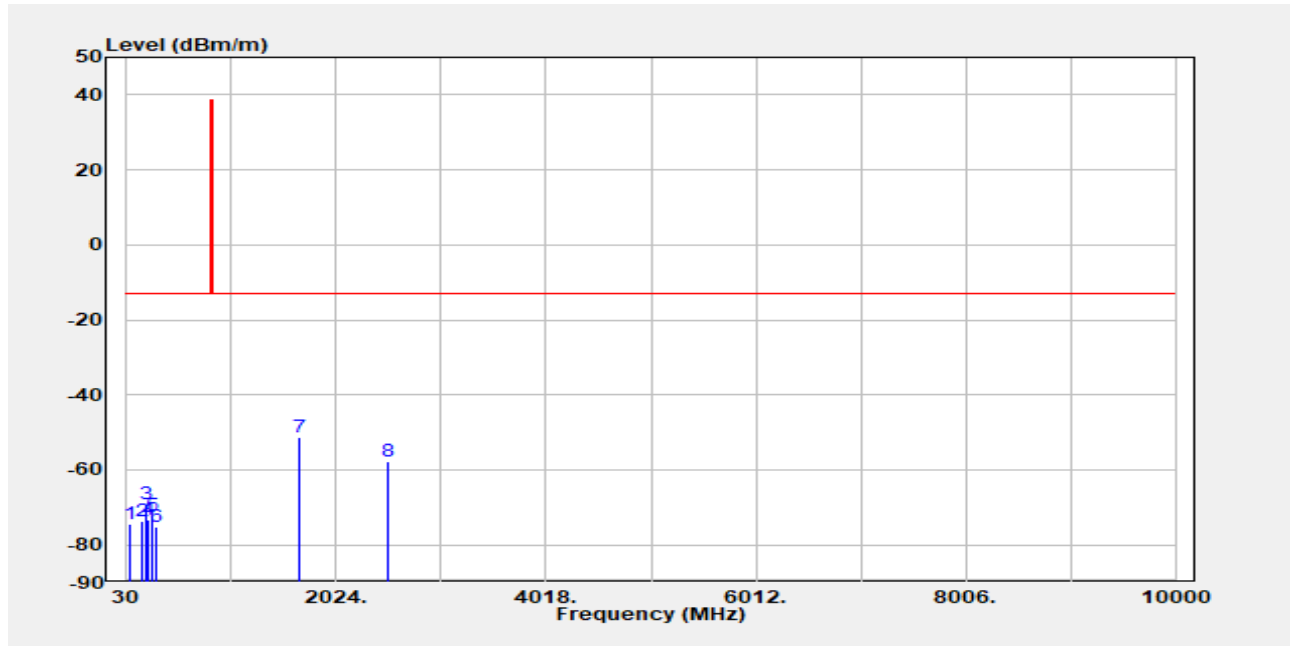
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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B5
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :836.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
63.950	-74.56	-64.49	-8.61	-1.46	-13.00	-61.56
167.740	-73.50	-70.78	-0.35	-2.37	-13.00	-60.50
216.240	-69.14	-71.03	4.58	-2.69	-13.00	-56.14
233.700	-73.19	-74.58	4.18	-2.79	-13.00	-60.19
263.770	-72.10	-73.27	4.15	-2.98	-13.00	-59.10
313.240	-75.30	-75.84	3.77	-3.23	-13.00	-62.30
1673.000	-51.30	-53.51	9.73	-7.52	-13.00	-38.30
2509.500	-57.83	-59.23	10.70	-9.29	-13.00	-44.83

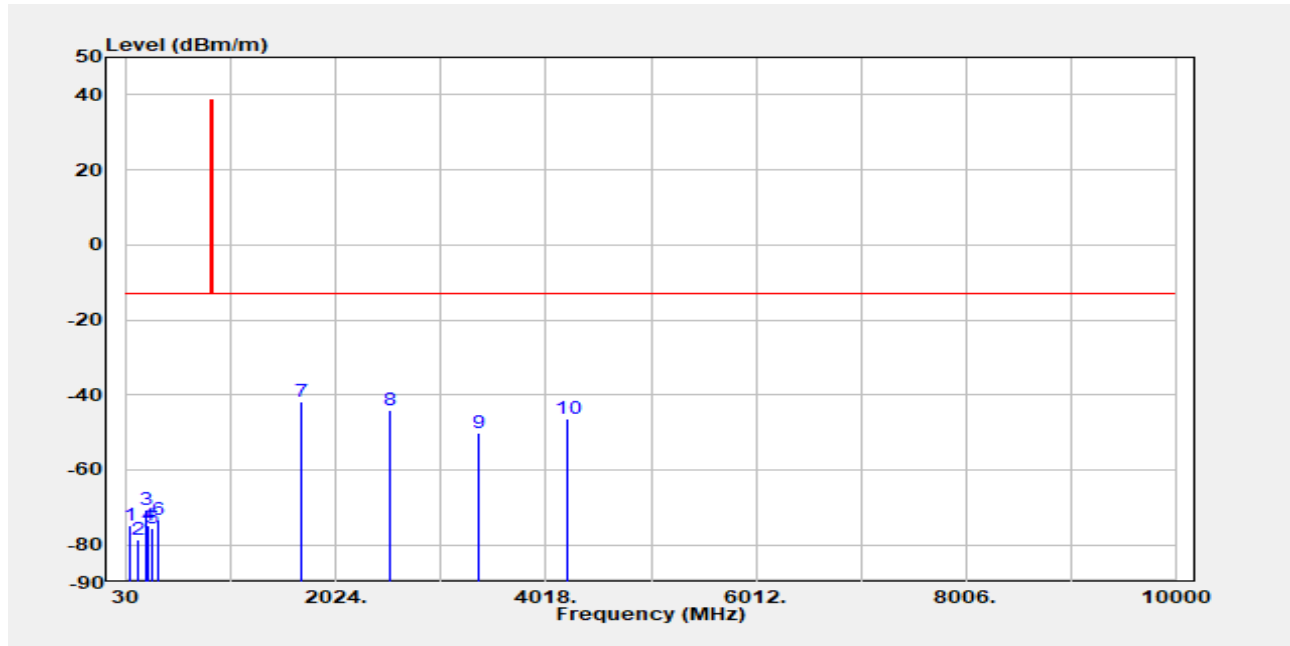
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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B5
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :844 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
63.950	-74.82	-64.74	-8.61	-1.46	-13.00	-61.82
133.790	-78.65	-74.79	-1.75	-2.12	-13.00	-65.65
216.240	-70.52	-72.42	4.58	-2.69	-13.00	-57.52
231.760	-74.68	-76.36	4.46	-2.78	-13.00	-61.68
263.770	-75.58	-76.75	4.15	-2.98	-13.00	-62.58
328.760	-73.23	-73.79	3.87	-3.31	-13.00	-60.23
1688.000	-41.63	-43.96	9.88	-7.55	-13.00	-28.63
2532.000	-44.15	-45.34	10.52	-9.33	-13.00	-31.15
3376.000	-50.29	-51.96	12.50	-10.83	-13.00	-37.29
4220.000	-46.52	-46.91	12.54	-12.15	-13.00	-33.52

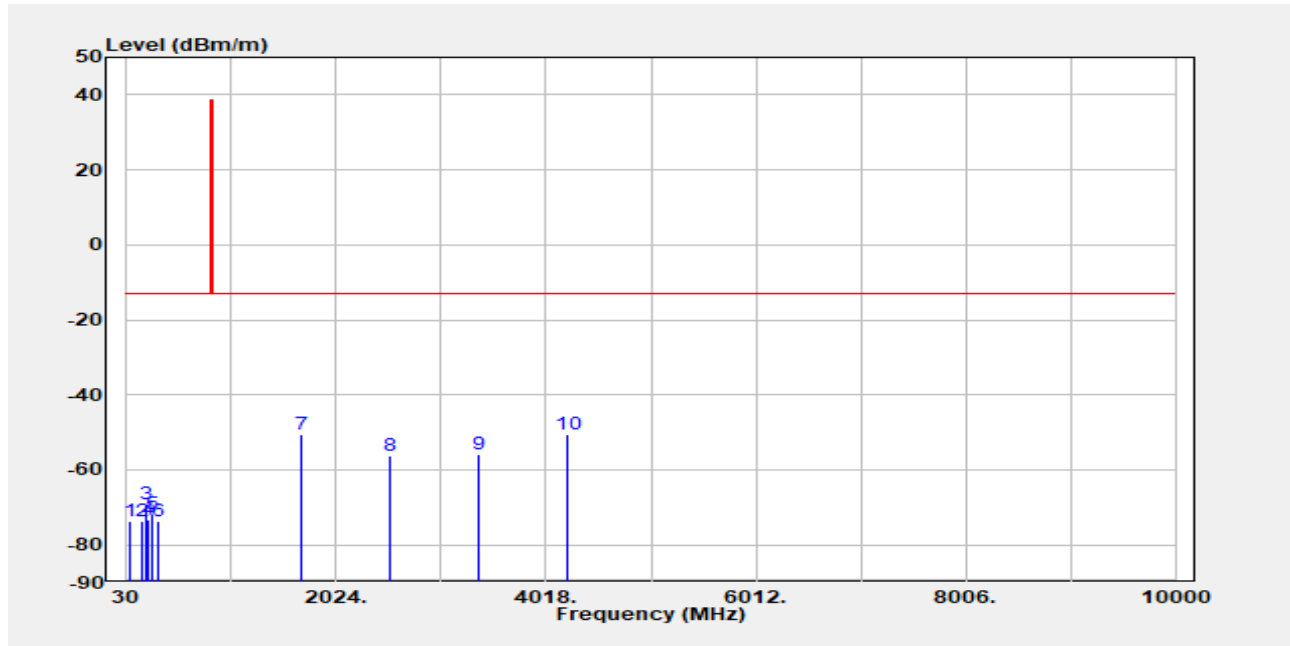
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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B5
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :844 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
63.950	-73.54	-63.47	-8.61	-1.46	-13.00	-60.54
167.740	-73.53	-70.80	-0.35	-2.37	-13.00	-60.53
216.240	-69.30	-71.19	4.58	-2.69	-13.00	-56.30
233.700	-73.14	-74.53	4.18	-2.79	-13.00	-60.14
263.770	-71.91	-73.08	4.15	-2.98	-13.00	-58.91
328.760	-73.70	-74.26	3.87	-3.31	-13.00	-60.70
1688.000	-50.39	-52.72	9.88	-7.55	-13.00	-37.39
2532.000	-56.37	-57.55	10.52	-9.33	-13.00	-43.37
3376.000	-55.71	-57.38	12.50	-10.83	-13.00	-42.71
4220.000	-50.68	-51.06	12.54	-12.15	-13.00	-37.68

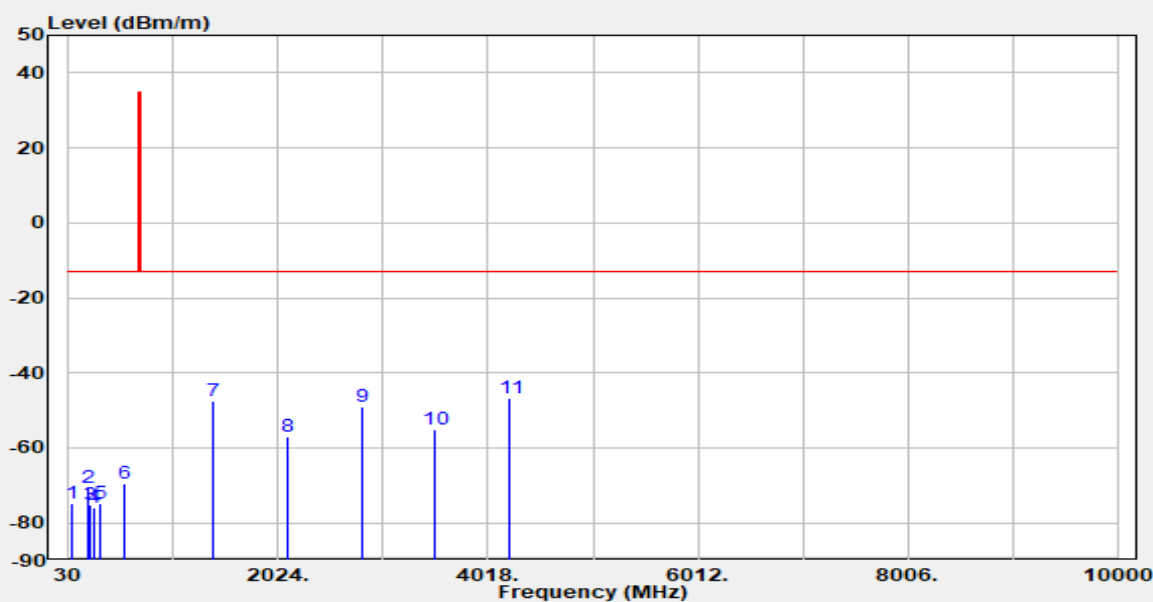
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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B12
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :704 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
63.950	-74.81	-64.74	-8.61	-1.46	-13.00	-61.81
216.240	-70.47	-72.36	4.58	-2.69	-13.00	-57.47
231.760	-75.32	-77.00	4.46	-2.78	-13.00	-62.32
263.770	-76.09	-77.26	4.15	-2.98	-13.00	-63.09
328.760	-74.86	-75.42	3.87	-3.31	-13.00	-61.86
550.890	-69.59	-69.87	4.57	-4.28	-13.00	-56.59
1408.000	-47.45	-48.15	7.58	-6.88	-13.00	-34.45
2112.000	-57.13	-58.33	9.68	-8.49	-13.00	-44.13
2816.000	-48.90	-49.93	10.90	-9.87	-13.00	-35.90
3520.000	-55.21	-56.47	12.32	-11.06	-13.00	-42.21
4224.000	-46.75	-47.14	12.55	-12.16	-13.00	-33.75

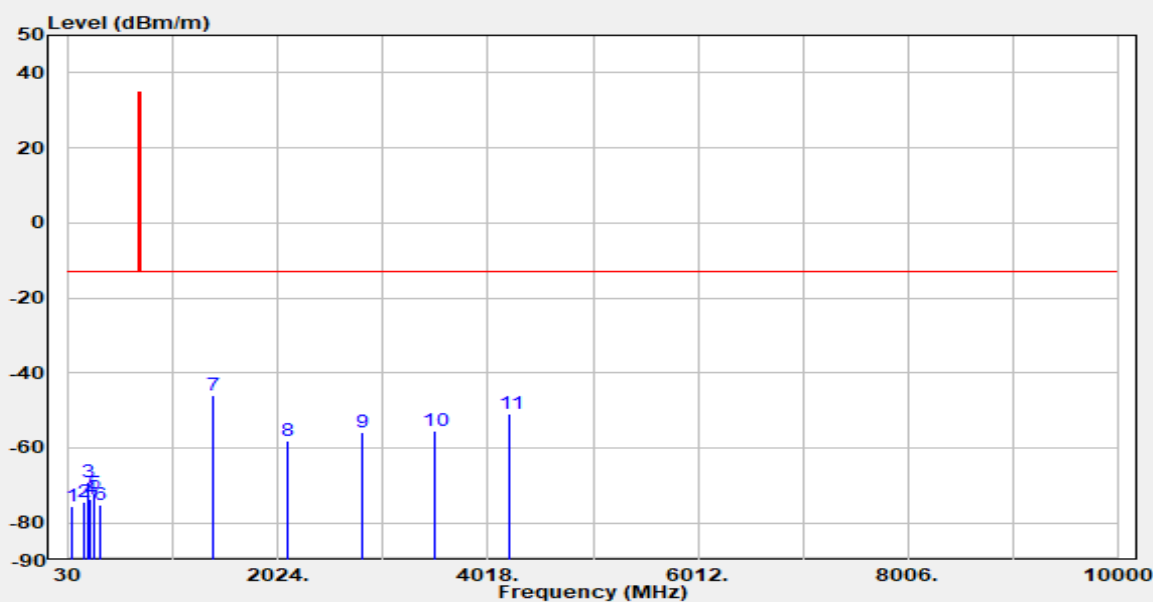
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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B12
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :704 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
63.950	-75.76	-65.68	-8.61	-1.46	-13.00	-62.76
167.740	-74.43	-71.71	-0.35	-2.37	-13.00	-61.43
216.240	-69.05	-70.94	4.58	-2.69	-13.00	-56.05
232.730	-73.74	-75.28	4.32	-2.79	-13.00	-60.74
263.770	-72.03	-73.20	4.15	-2.98	-13.00	-59.03
338.460	-75.37	-75.98	3.97	-3.36	-13.00	-62.37
1408.000	-46.08	-46.78	7.58	-6.88	-13.00	-33.08
2112.000	-58.01	-59.21	9.68	-8.49	-13.00	-45.01
2816.000	-55.98	-57.01	10.90	-9.87	-13.00	-42.98
3520.000	-55.61	-56.87	12.32	-11.06	-13.00	-42.61
4224.000	-50.81	-51.20	12.55	-12.16	-13.00	-37.81

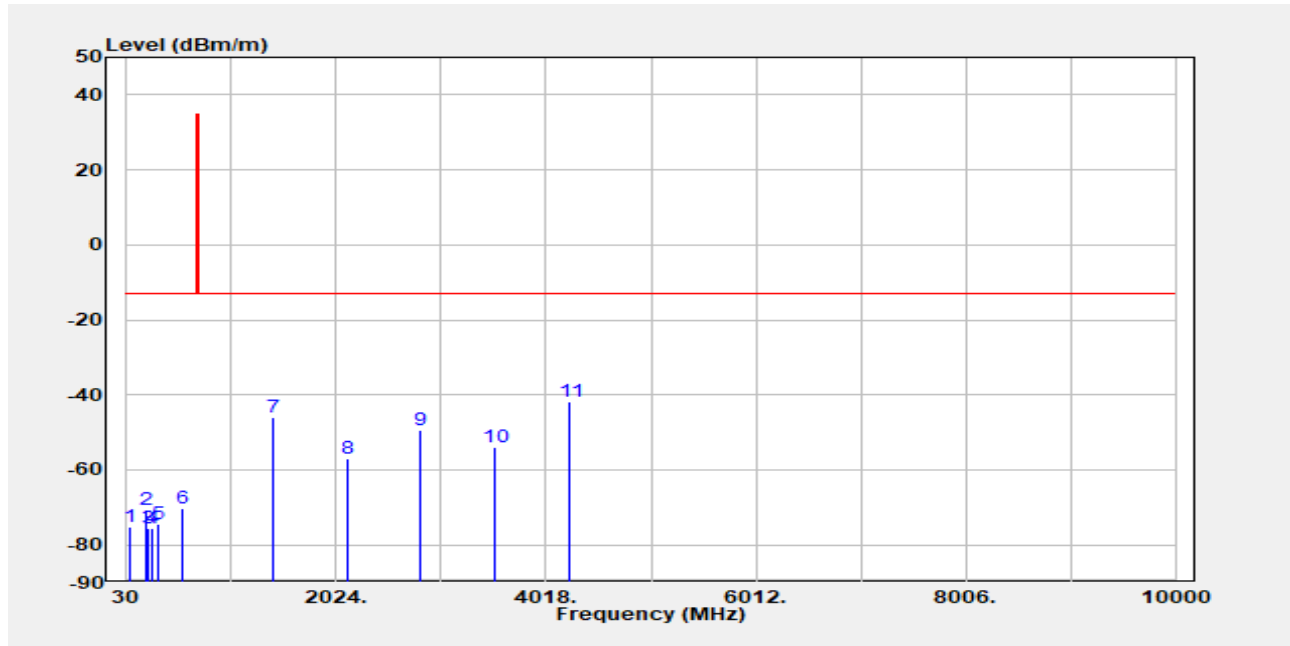
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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B12
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :707.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
63.950	-75.16	-65.08	-8.61	-1.46	-13.00	-62.16
216.240	-70.72	-72.61	4.58	-2.69	-13.00	-57.72
231.760	-75.45	-77.13	4.46	-2.78	-13.00	-62.45
263.770	-75.72	-76.90	4.15	-2.98	-13.00	-62.72
328.760	-74.49	-75.04	3.87	-3.31	-13.00	-61.49
551.860	-70.27	-70.53	4.55	-4.29	-13.00	-57.27
1415.000	-46.07	-46.83	7.65	-6.90	-13.00	-33.07
2122.500	-56.98	-58.04	9.58	-8.51	-13.00	-43.98
2830.000	-49.34	-50.35	10.90	-9.89	-13.00	-36.34
3537.500	-53.98	-55.14	12.25	-11.09	-13.00	-40.98
4245.000	-41.89	-42.28	12.59	-12.19	-13.00	-28.89

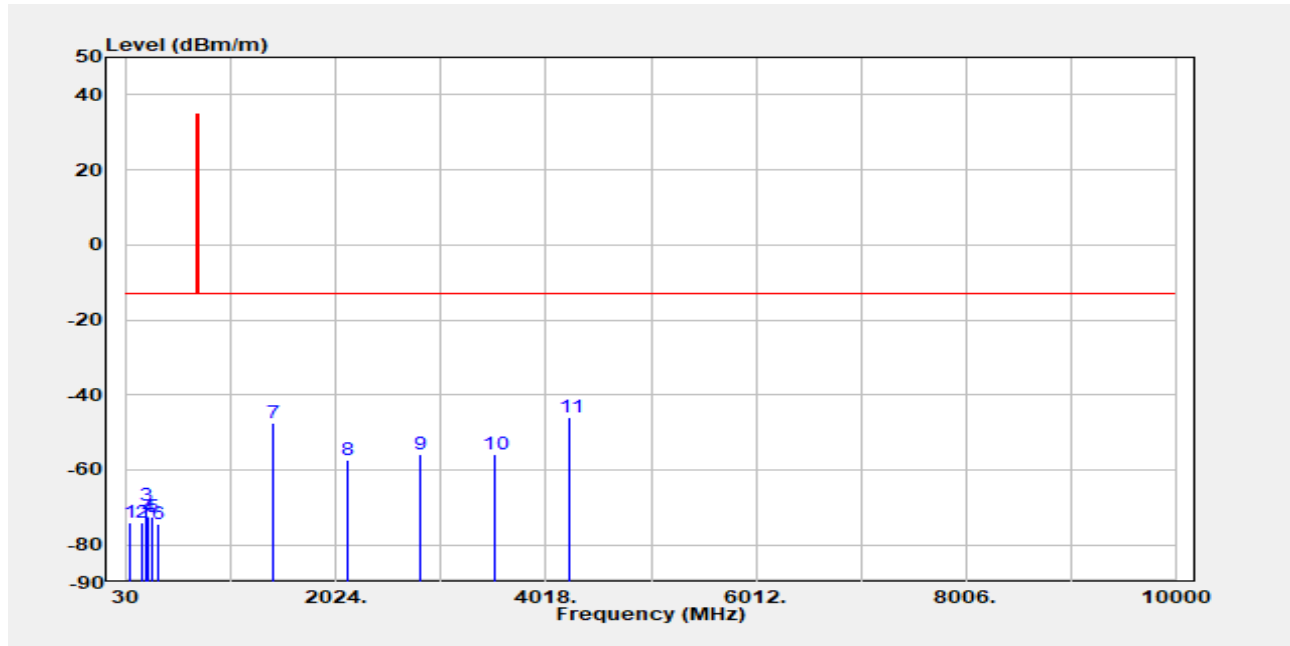
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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B12
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :707.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



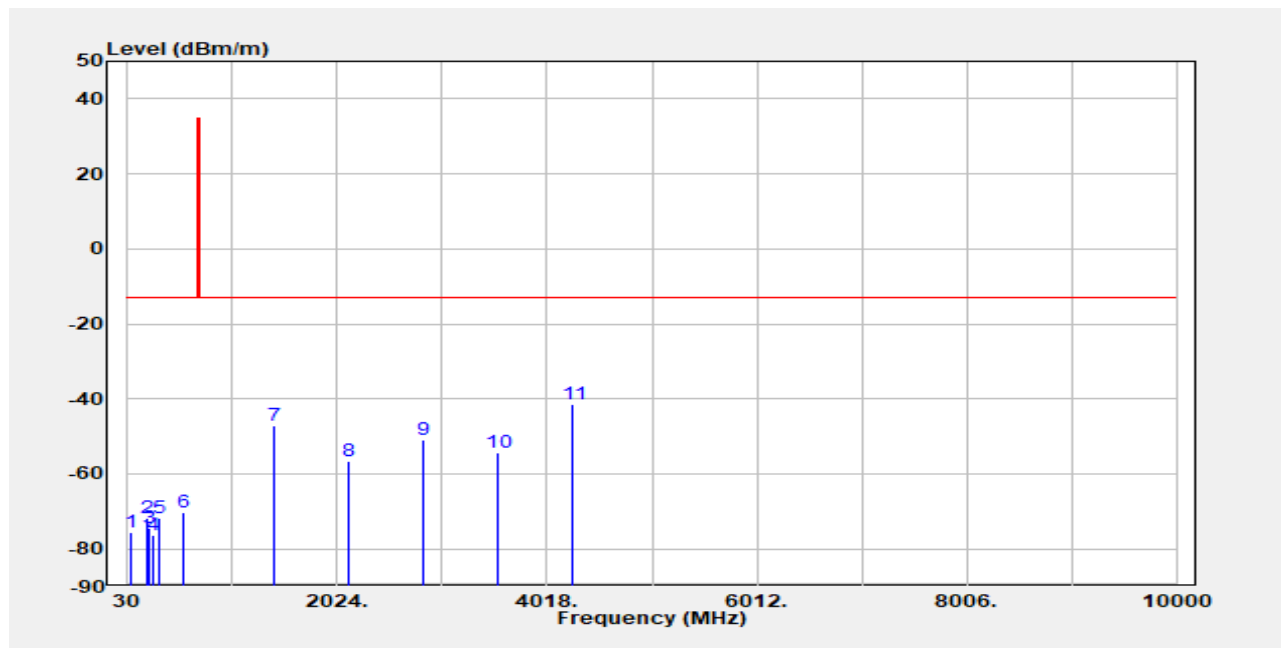
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
63.950	-74.23	-64.16	-8.61	-1.46	-13.00	-61.23
167.740	-74.24	-71.51	-0.35	-2.37	-13.00	-61.24
216.240	-69.62	-71.52	4.58	-2.69	-13.00	-56.62
232.730	-72.49	-74.02	4.32	-2.79	-13.00	-59.49
263.770	-72.41	-73.58	4.15	-2.98	-13.00	-59.41
328.760	-74.37	-74.93	3.87	-3.31	-13.00	-61.37
1415.000	-47.36	-48.12	7.65	-6.90	-13.00	-34.36
2122.500	-57.45	-58.51	9.58	-8.51	-13.00	-44.45
2830.000	-55.92	-56.93	10.90	-9.89	-13.00	-42.92
3537.500	-55.82	-56.98	12.25	-11.09	-13.00	-42.82
4245.000	-45.85	-46.24	12.59	-12.19	-13.00	-32.85

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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B12
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :711 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
63.950	-75.50	-65.42	-8.61	-1.46	-13.00	-62.50
216.240	-71.66	-73.55	4.58	-2.69	-13.00	-58.66
233.700	-74.60	-75.99	4.18	-2.79	-13.00	-61.60
263.770	-76.51	-77.69	4.15	-2.98	-13.00	-63.51
329.730	-71.96	-72.50	3.85	-3.32	-13.00	-58.96
554.770	-70.20	-70.38	4.48	-4.30	-13.00	-57.20
1422.000	-47.25	-48.04	7.70	-6.91	-13.00	-34.25
2133.000	-56.51	-57.48	9.50	-8.53	-13.00	-43.51
2844.000	-50.78	-51.76	10.90	-9.92	-13.00	-37.78
3555.000	-54.18	-55.28	12.21	-11.12	-13.00	-41.18
4266.000	-41.46	-41.84	12.60	-12.22	-13.00	-28.46

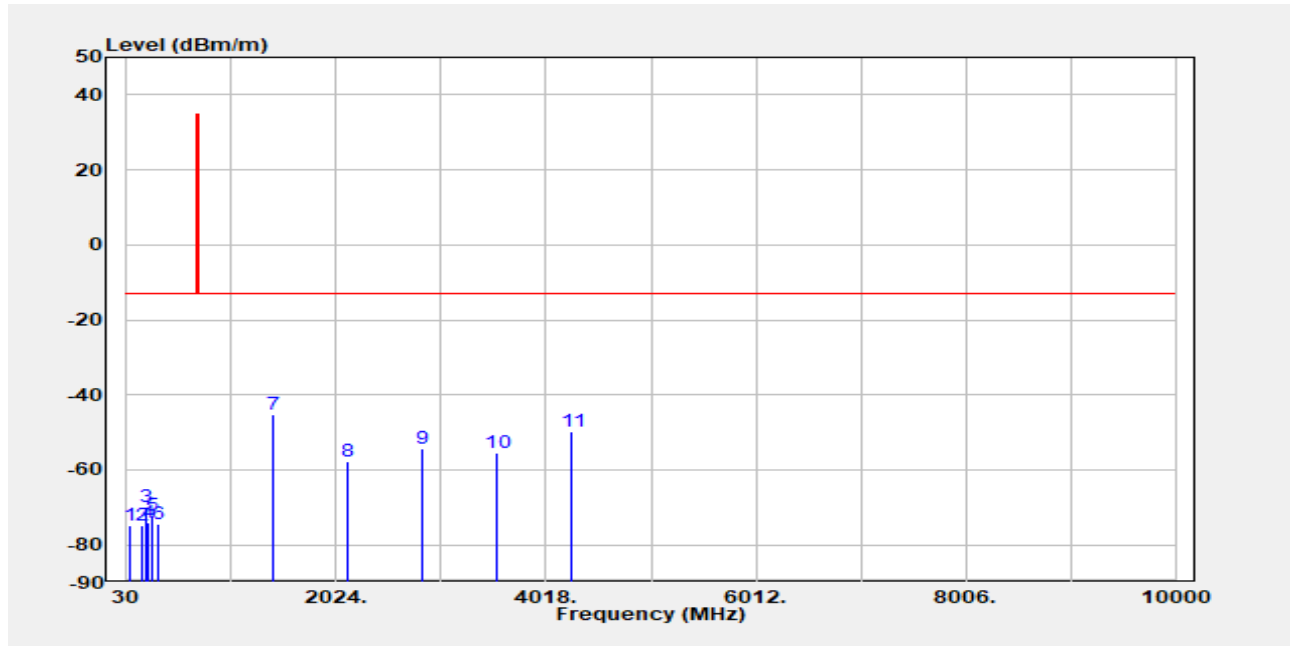
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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B12
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :711 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
63.950	-74.71	-64.63	-8.61	-1.46	-13.00	-61.71
167.740	-74.88	-72.16	-0.35	-2.37	-13.00	-61.88
216.240	-69.89	-71.78	4.58	-2.69	-13.00	-56.89
231.760	-73.91	-75.59	4.46	-2.78	-13.00	-60.91
263.770	-72.30	-73.47	4.15	-2.98	-13.00	-59.30
328.760	-74.38	-74.94	3.87	-3.31	-13.00	-61.38
1422.000	-45.10	-45.89	7.70	-6.91	-13.00	-32.10
2133.000	-57.79	-58.75	9.50	-8.53	-13.00	-44.79
2844.000	-54.29	-55.27	10.90	-9.92	-13.00	-41.29
3555.000	-55.62	-56.71	12.21	-11.12	-13.00	-42.62
4266.000	-49.73	-50.11	12.60	-12.22	-13.00	-36.73

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B13

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :779.5 MHz

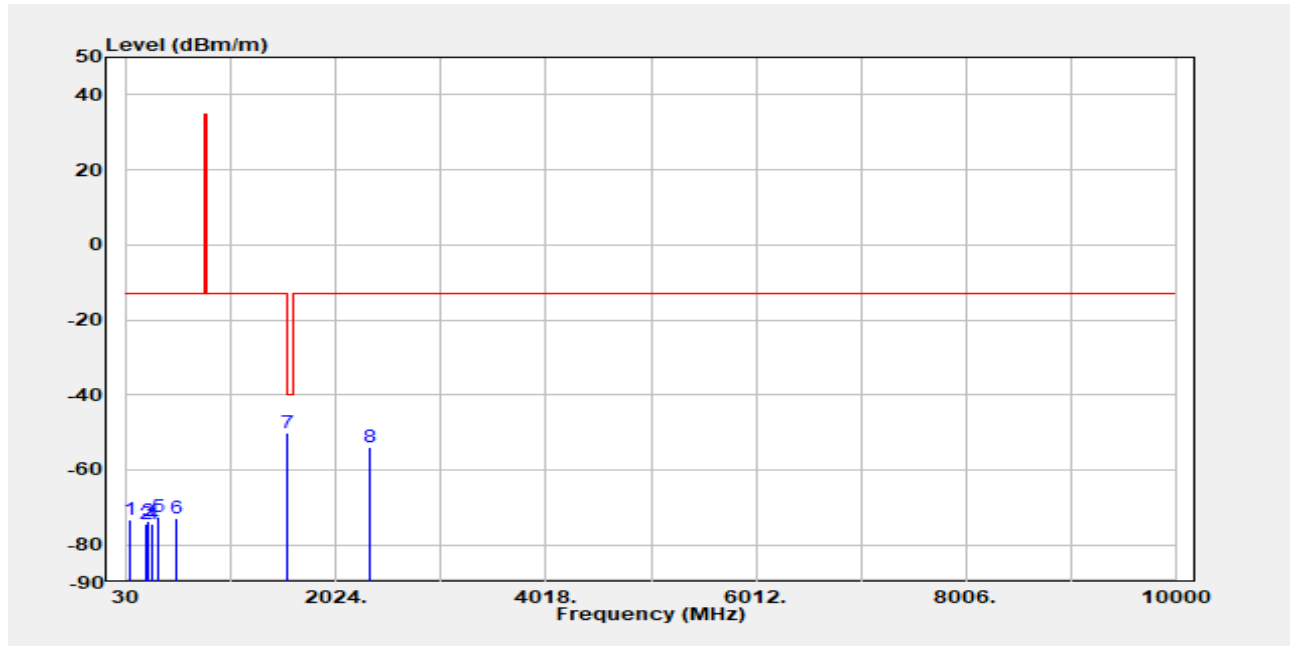
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Vertical

Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
63.950	-73.49	-63.41	-8.61	-1.46	-13.00	-60.49
216.240	-74.40	-76.29	4.58	-2.69	-13.00	-61.40
229.820	-73.62	-75.57	4.72	-2.77	-13.00	-60.62
263.770	-74.50	-75.67	4.15	-2.98	-13.00	-61.50
329.730	-72.54	-73.08	3.85	-3.32	-13.00	-59.54
494.630	-72.95	-72.87	3.97	-4.06	-13.00	-59.95
1559.000	-50.16	-52.10	9.19	-7.25	-40.00	-10.16
2338.500	-54.03	-54.94	9.87	-8.96	-13.00	-41.03

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

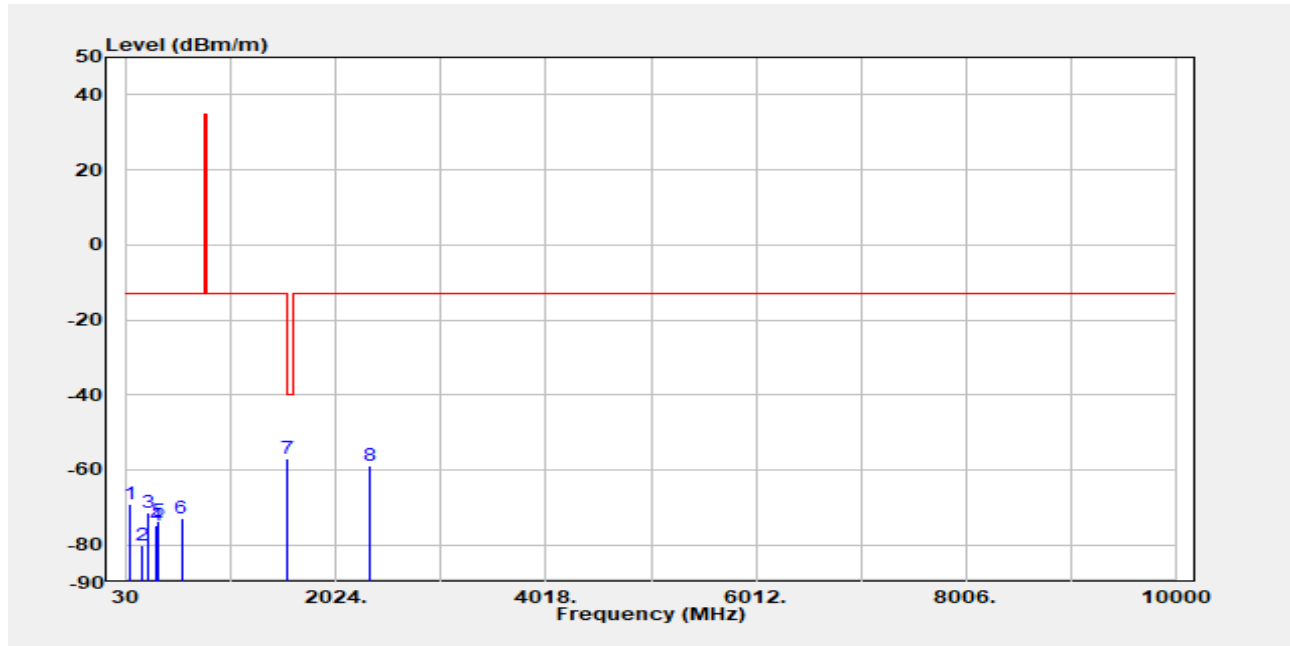
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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B13
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :779.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
63.950	-69.05	-58.97	-8.61	-1.46	-13.00	-56.05
167.740	-79.96	-77.24	-0.35	-2.37	-13.00	-66.96
231.760	-71.54	-73.22	4.46	-2.78	-13.00	-58.54
311.300	-74.85	-75.42	3.79	-3.22	-13.00	-61.85
338.460	-73.87	-74.47	3.97	-3.36	-13.00	-60.87
549.920	-72.89	-73.20	4.59	-4.28	-13.00	-59.89
1559.000	-56.84	-58.78	9.19	-7.25	-40.00	-16.84
2238.500	-58.70	-59.62	9.87	-8.96	-13.00	-45.70

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B13

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :782 MHz

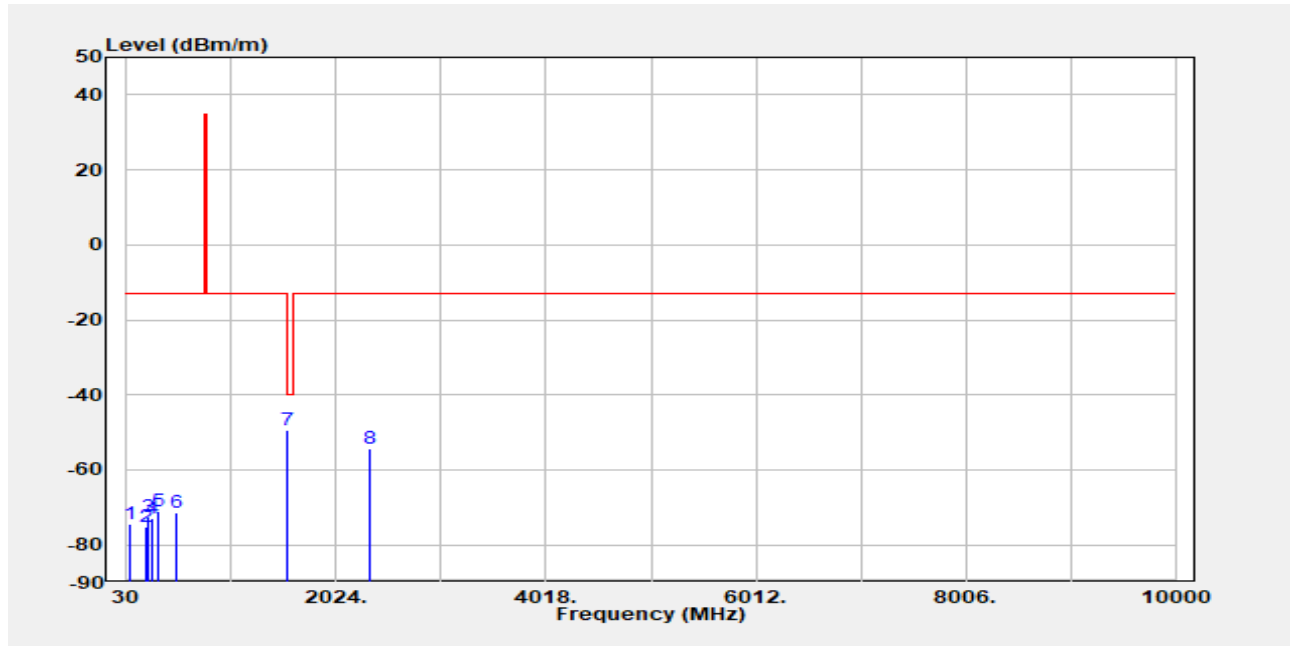
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Vertical

Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
63.950	-74.50	-64.43	-8.61	-1.46	-13.00	-61.50
216.240	-75.11	-77.00	4.58	-2.69	-13.00	-62.11
229.820	-72.50	-74.45	4.72	-2.77	-13.00	-59.50
263.770	-73.02	-74.20	4.15	-2.98	-13.00	-60.02
327.790	-71.20	-71.77	3.88	-3.31	-13.00	-58.20
494.630	-71.27	-71.18	3.97	-4.06	-13.00	-58.27
1564.000	-49.53	-51.47	9.20	-7.26	-40.00	-9.53
2346.000	-54.32	-55.25	9.90	-8.97	-13.00	-41.32

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Operation Mode :CAT-M1 B13

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :782 MHz

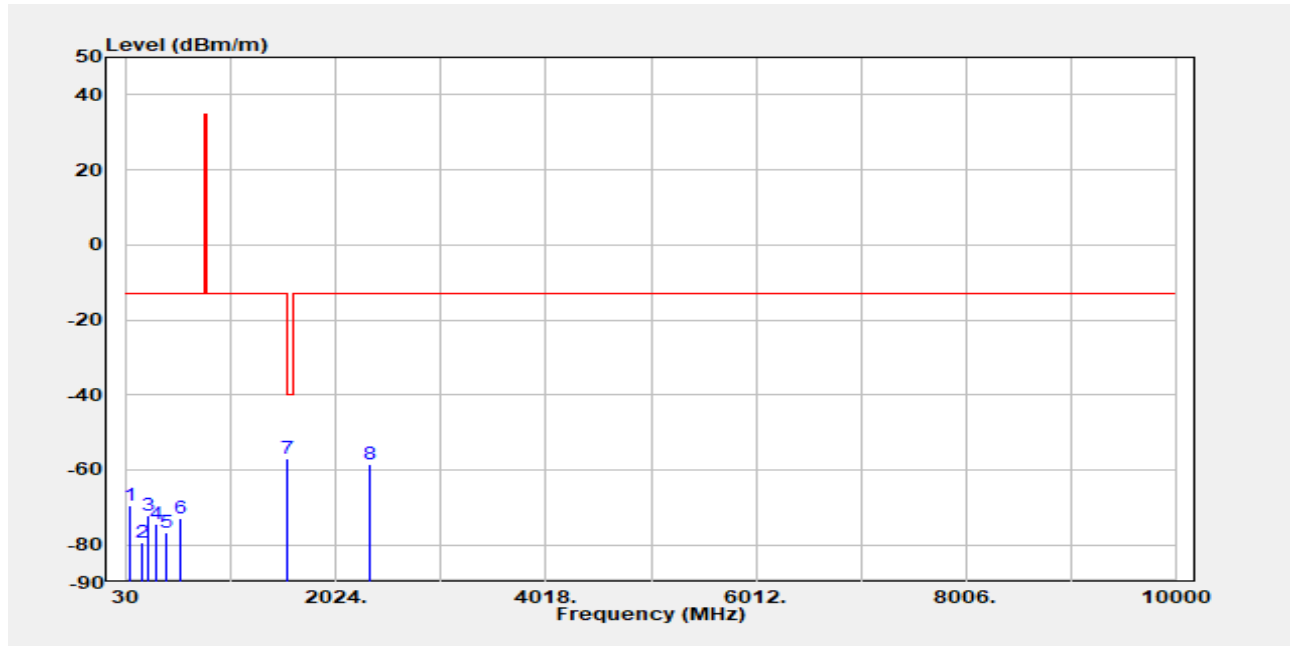
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Horizontal

Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
63.950	-69.42	-59.34	-8.61	-1.46	-13.00	-56.42
167.740	-79.21	-76.48	-0.35	-2.37	-13.00	-66.21
233.700	-72.05	-73.44	4.18	-2.79	-13.00	-59.05
314.210	-74.44	-74.97	3.76	-3.24	-13.00	-61.44
407.330	-76.80	-77.10	3.98	-3.68	-13.00	-63.80
548.950	-72.91	-73.20	4.57	-4.28	-13.00	-59.91
1564.000	-57.15	-59.09	9.20	-7.26	-40.00	-17.15
2346.000	-58.60	-59.53	9.90	-8.97	-13.00	-45.60

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B13

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :784.5 MHz

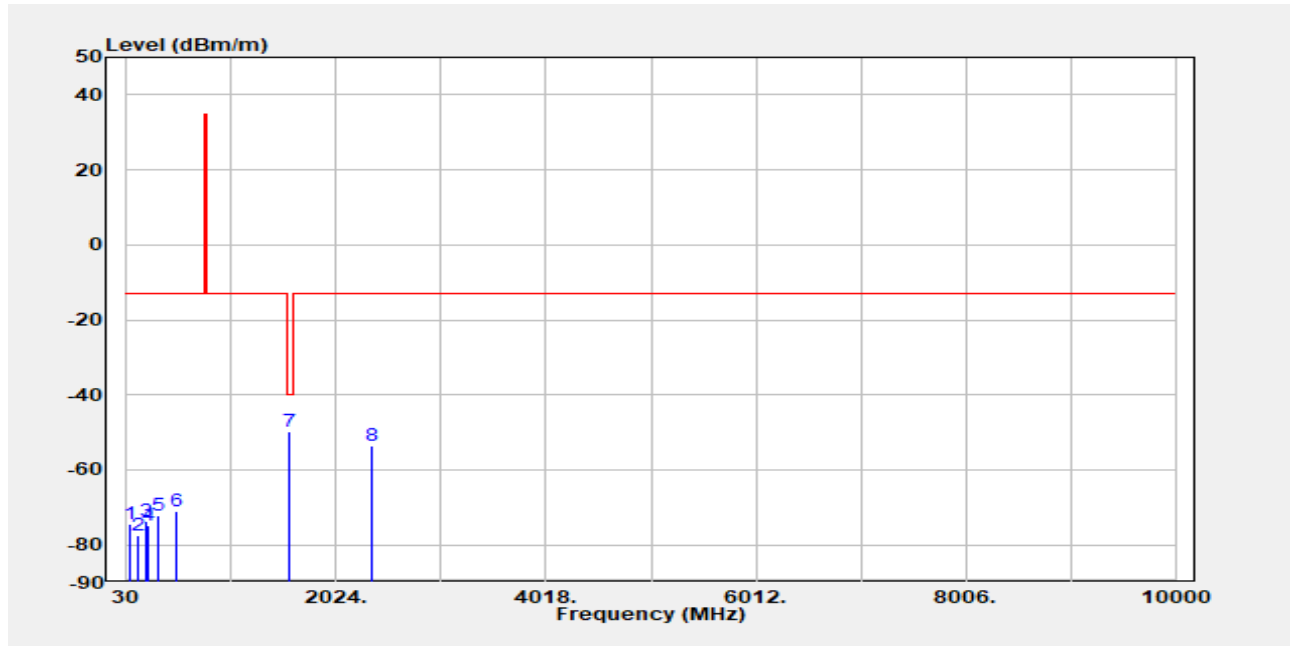
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Vertical

Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
63.950	-74.48	-64.40	-8.61	-1.46	-13.00	-61.48
134.760	-77.48	-73.55	-1.80	-2.12	-13.00	-64.48
216.240	-73.60	-75.50	4.58	-2.69	-13.00	-60.60
236.610	-74.86	-75.95	3.90	-2.81	-13.00	-61.86
329.730	-71.98	-72.51	3.85	-3.32	-13.00	-58.98
492.690	-71.19	-71.11	3.97	-4.05	-13.00	-58.19
1569.000	-49.79	-51.72	9.20	-7.27	-40.00	-9.79
2353.500	-53.62	-54.57	9.93	-8.99	-13.00	-40.62

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B13

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :784.5 MHz

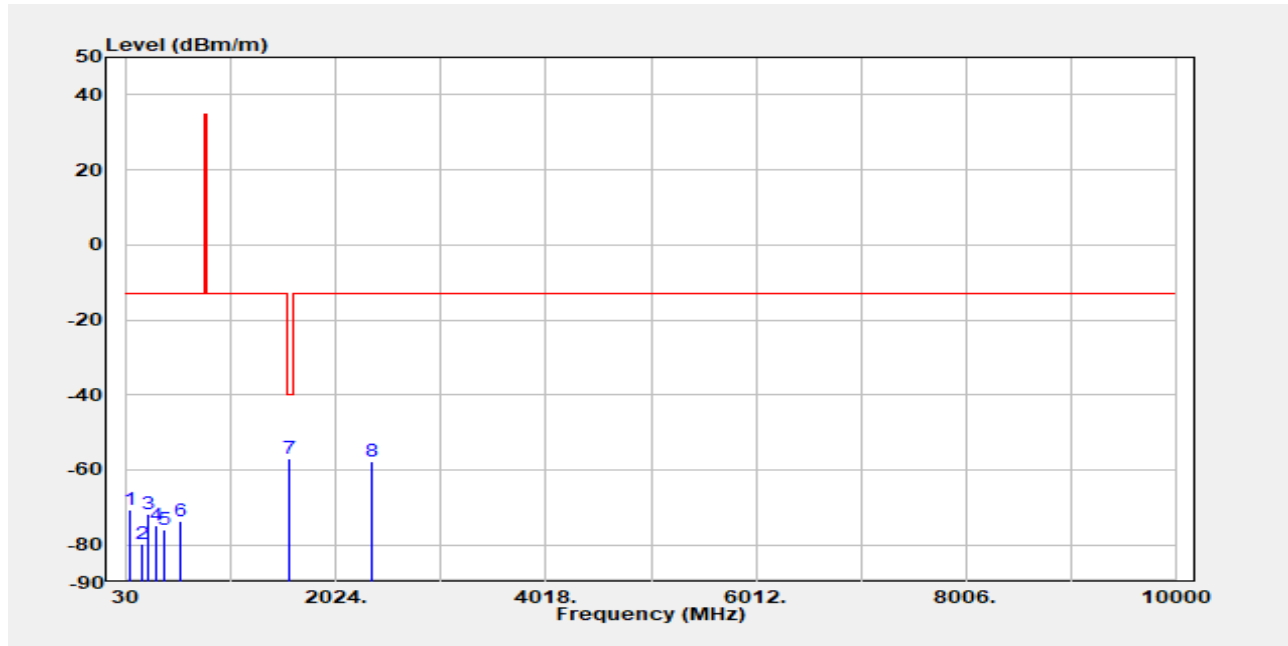
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Horizontal

Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
63.950	-70.62	-60.54	-8.61	-1.46	-13.00	-57.62
167.740	-79.79	-77.06	-0.35	-2.37	-13.00	-66.79
233.700	-71.71	-73.10	4.18	-2.79	-13.00	-58.71
310.330	-74.84	-75.43	3.81	-3.21	-13.00	-61.84
384.050	-76.05	-76.38	3.91	-3.58	-13.00	-63.05
545.070	-73.65	-73.90	4.51	-4.26	-13.00	-60.65
1569.000	-57.17	-59.10	9.20	-7.27	-40.00	-17.17
2353.500	-57.82	-58.77	9.93	-8.99	-13.00	-44.82

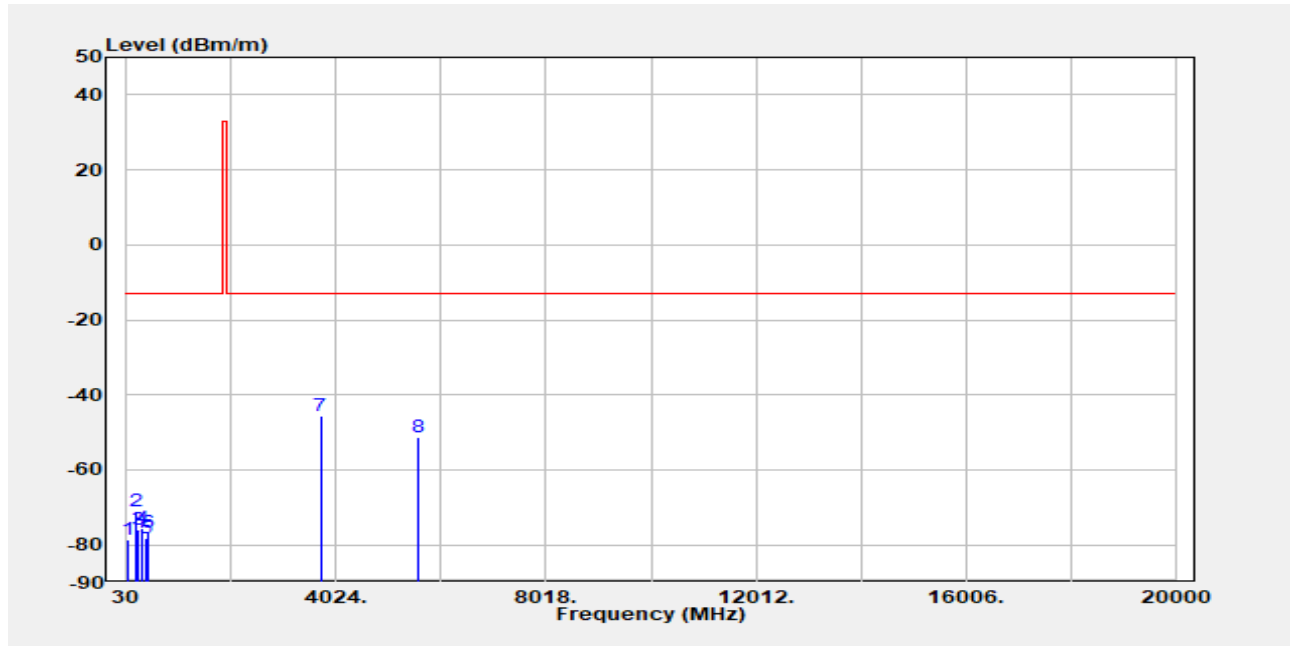
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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B25
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1860 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
65.890	-78.57	-69.29	-7.80	-1.48	-13.00	-65.57
216.240	-70.87	-72.76	4.58	-2.69	-13.00	-57.87
263.770	-76.01	-77.18	4.15	-2.98	-13.00	-63.01
327.790	-75.73	-76.30	3.88	-3.31	-13.00	-62.73
382.110	-78.14	-78.51	3.94	-3.57	-13.00	-65.14
453.890	-76.65	-76.58	3.82	-3.89	-13.00	-63.65
3720.000	-45.75	-46.87	12.50	-11.38	-13.00	-32.75
5580.000	-51.45	-50.47	13.12	-14.10	-13.00	-38.45

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B25

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1860 MHz

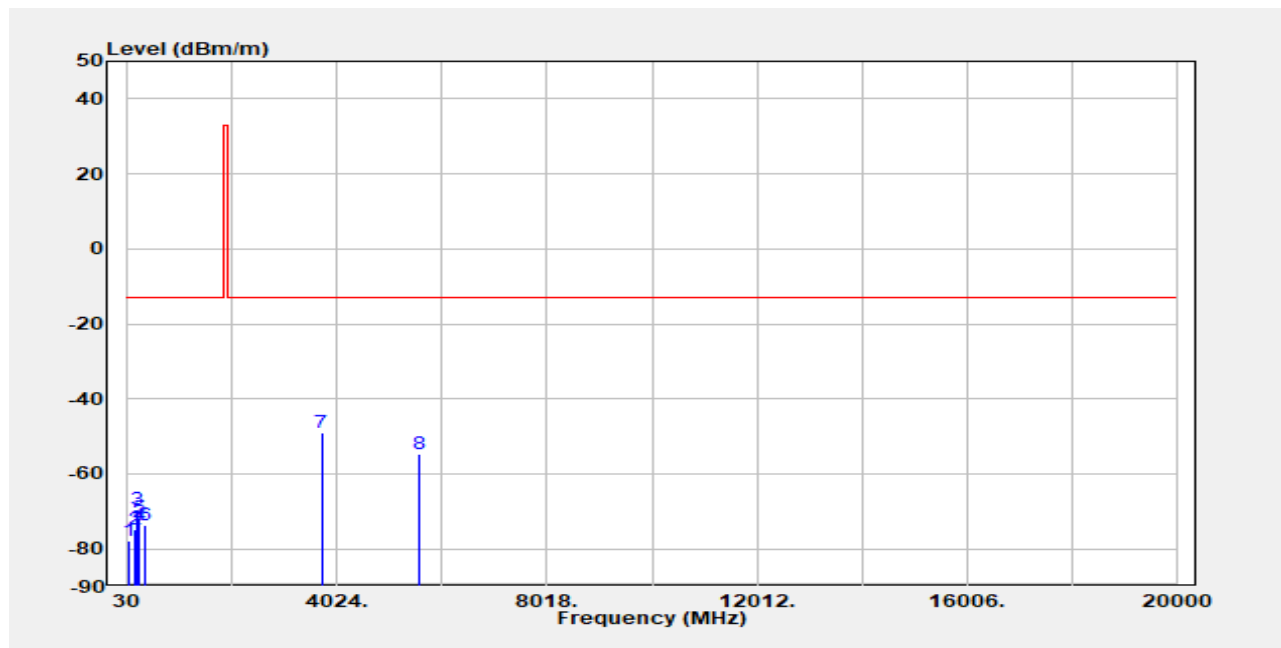
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Horizontal

Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
65.890	-77.98	-68.70	-7.80	-1.48	-13.00	-64.98
167.740	-74.66	-71.94	-0.35	-2.37	-13.00	-61.66
216.240	-69.53	-71.42	4.58	-2.69	-13.00	-56.53
231.760	-73.76	-75.44	4.46	-2.78	-13.00	-60.76
263.770	-71.95	-73.12	4.15	-2.98	-13.00	-58.95
343.310	-73.51	-74.16	4.03	-3.38	-13.00	-60.51
3720.000	-49.06	-50.18	12.50	-11.38	-13.00	-36.06
5580.000	-54.67	-53.70	13.12	-14.10	-13.00	-41.67

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Member of SGS Group

Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B25

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1882.5 MHz

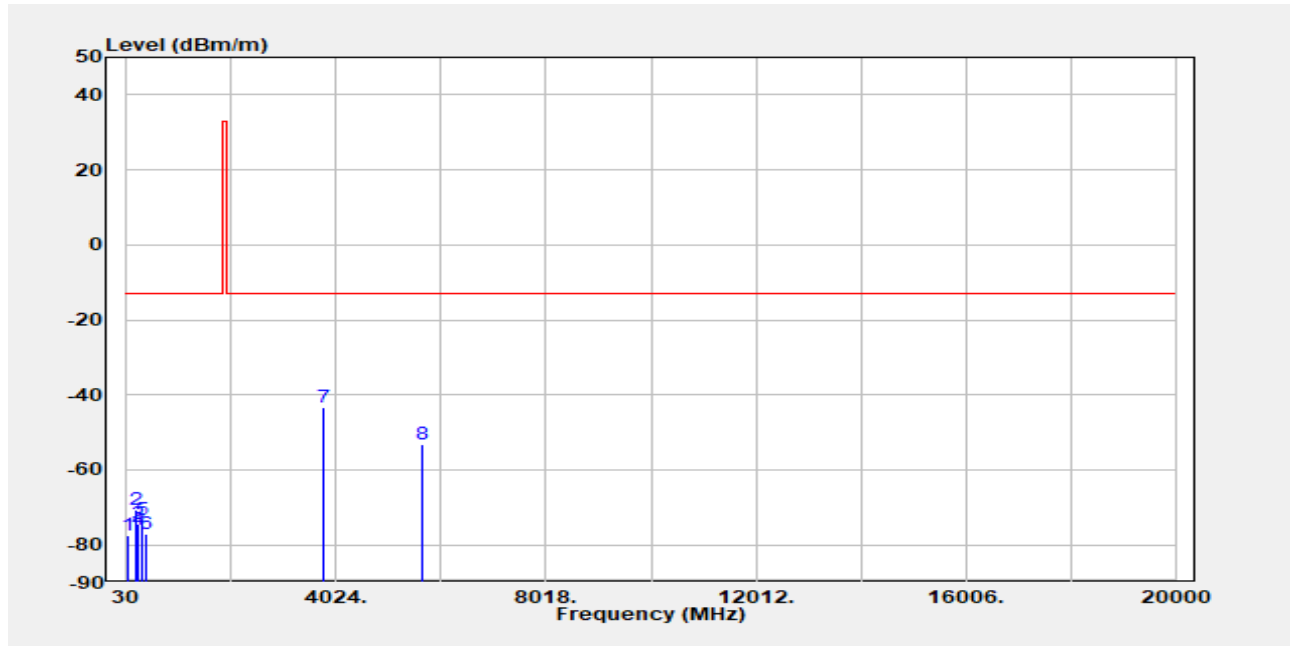
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Vertical

Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
52.310	-77.61	-64.71	-11.58	-1.33	-13.00	-64.61
216.240	-70.77	-72.66	4.58	-2.69	-13.00	-57.77
230.790	-74.59	-76.42	4.60	-2.77	-13.00	-61.59
263.770	-76.12	-77.29	4.15	-2.98	-13.00	-63.12
327.790	-73.27	-73.84	3.88	-3.31	-13.00	-60.27
413.150	-77.20	-77.59	4.10	-3.71	-13.00	-64.20
3765.000	-43.34	-44.39	12.50	-11.45	-13.00	-30.34
5647.500	-53.20	-52.32	13.30	-14.18	-13.00	-40.20

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B25

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1882.5 MHz

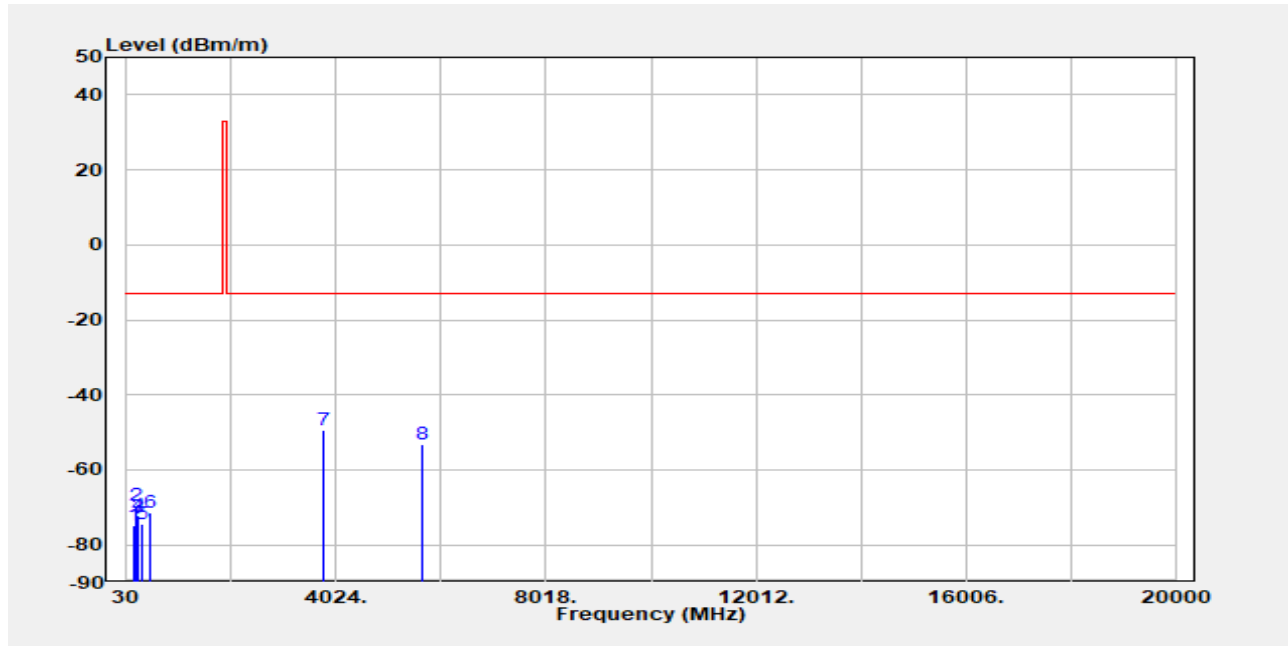
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Horizontal

Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
167.740	-74.74	-72.02	-0.35	-2.37	-13.00	-61.74
216.240	-69.57	-71.46	4.58	-2.69	-13.00	-56.57
231.760	-72.68	-74.36	4.46	-2.78	-13.00	-59.68
263.770	-72.02	-73.20	4.15	-2.98	-13.00	-59.02
329.730	-74.28	-74.81	3.85	-3.32	-13.00	-61.28
492.690	-71.60	-71.52	3.97	-4.05	-13.00	-58.60
3765.000	-49.52	-50.57	12.50	-11.45	-13.00	-36.52
5647.500	-53.25	-52.37	13.30	-14.18	-13.00	-40.25

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B25

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1905 MHz

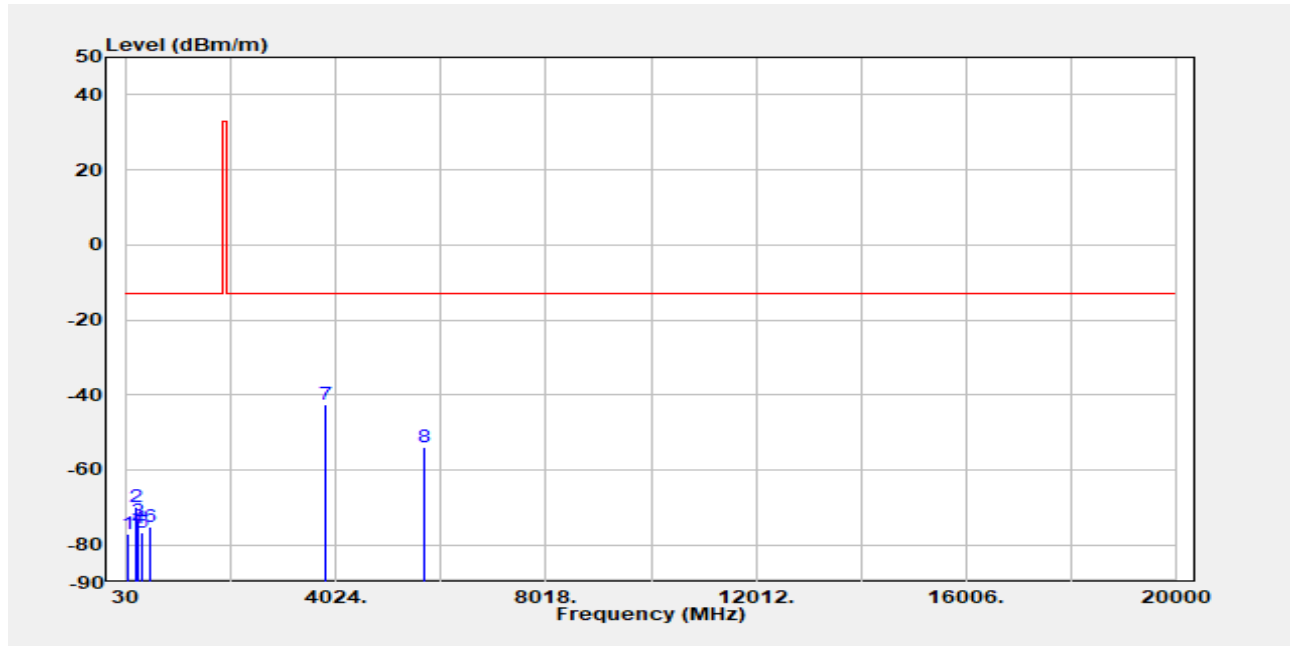
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Vertical

Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
52.310	-77.15	-64.24	-11.58	-1.33	-13.00	-64.15
216.240	-69.85	-71.74	4.58	-2.69	-13.00	-56.85
231.760	-73.59	-75.27	4.46	-2.78	-13.00	-60.59
263.770	-75.66	-76.83	4.15	-2.98	-13.00	-62.66
328.760	-76.55	-77.10	3.87	-3.31	-13.00	-63.55
493.660	-75.19	-75.11	3.97	-4.05	-13.00	-62.19
3810.000	-42.65	-43.61	12.48	-11.52	-13.00	-29.65
5715.000	-53.95	-52.78	13.10	-14.27	-13.00	-40.95

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Operation Mode :CAT-M1 B25

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1905 MHz

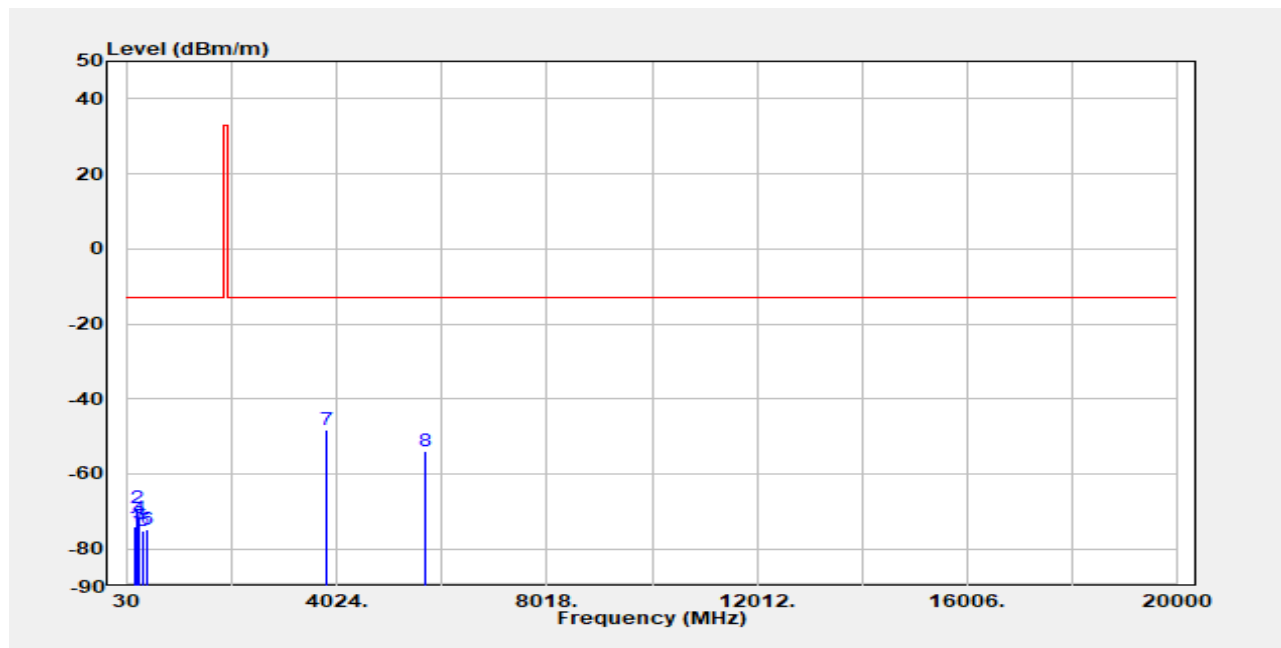
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Horizontal

Engineer :Cooper Hsu



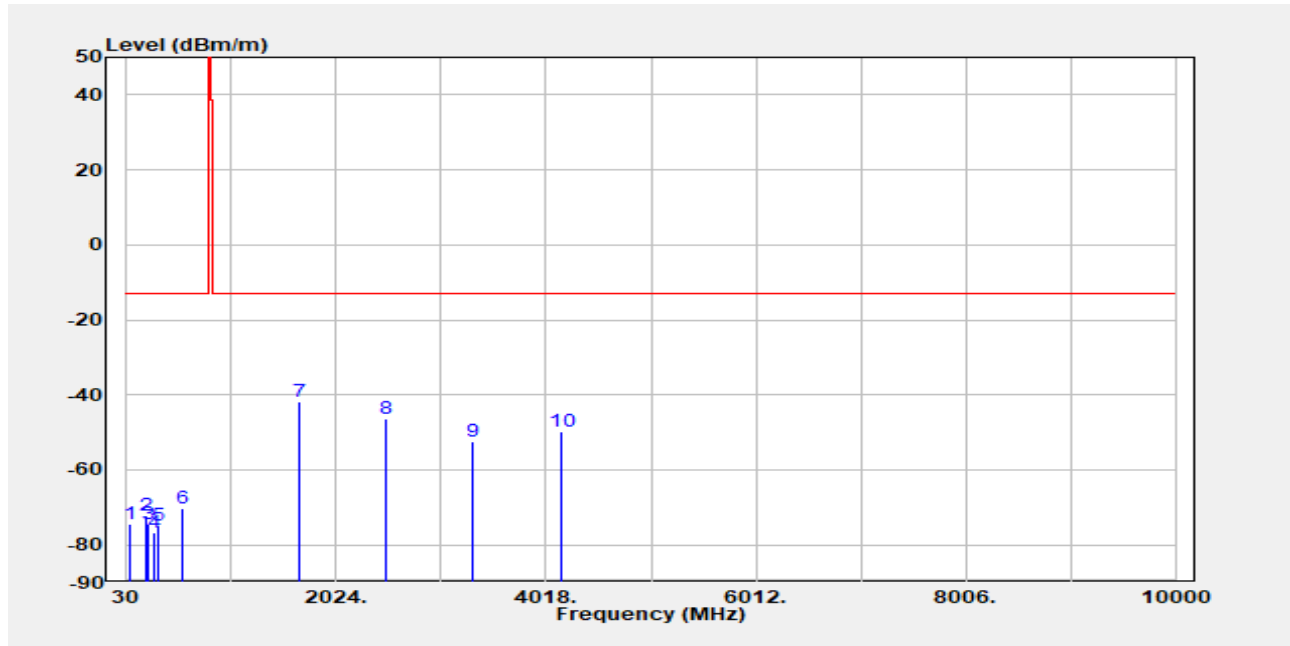
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
167.740	-74.21	-71.49	-0.35	-2.37	-13.00	-61.21
216.240	-69.30	-71.20	4.58	-2.69	-13.00	-56.30
230.790	-73.33	-75.15	4.60	-2.77	-13.00	-60.33
263.770	-71.90	-73.07	4.15	-2.98	-13.00	-58.90
327.790	-75.38	-75.95	3.88	-3.31	-13.00	-62.38
385.990	-75.01	-75.31	3.89	-3.58	-13.00	-62.01
3810.000	-48.41	-49.37	12.48	-11.52	-13.00	-35.41
5715.000	-54.09	-52.92	13.10	-14.27	-13.00	-41.09

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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B26
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :831.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
63.950	-74.35	-64.27	-8.61	-1.46	-13.00	-61.35
216.240	-72.23	-74.12	4.58	-2.69	-13.00	-59.23
231.760	-74.33	-76.01	4.46	-2.78	-13.00	-61.33
284.140	-76.67	-77.27	3.69	-3.08	-13.00	-63.67
329.730	-74.88	-75.42	3.85	-3.32	-13.00	-61.88
563.500	-70.11	-70.13	4.36	-4.33	-13.00	-57.11
1663.000	-41.91	-44.05	9.63	-7.49	-13.00	-28.91
2494.500	-46.44	-47.72	10.55	-9.26	-13.00	-33.44
3326.000	-52.56	-54.16	12.35	-10.75	-13.00	-39.56
4157.500	-49.85	-50.29	12.50	-12.06	-13.00	-36.85

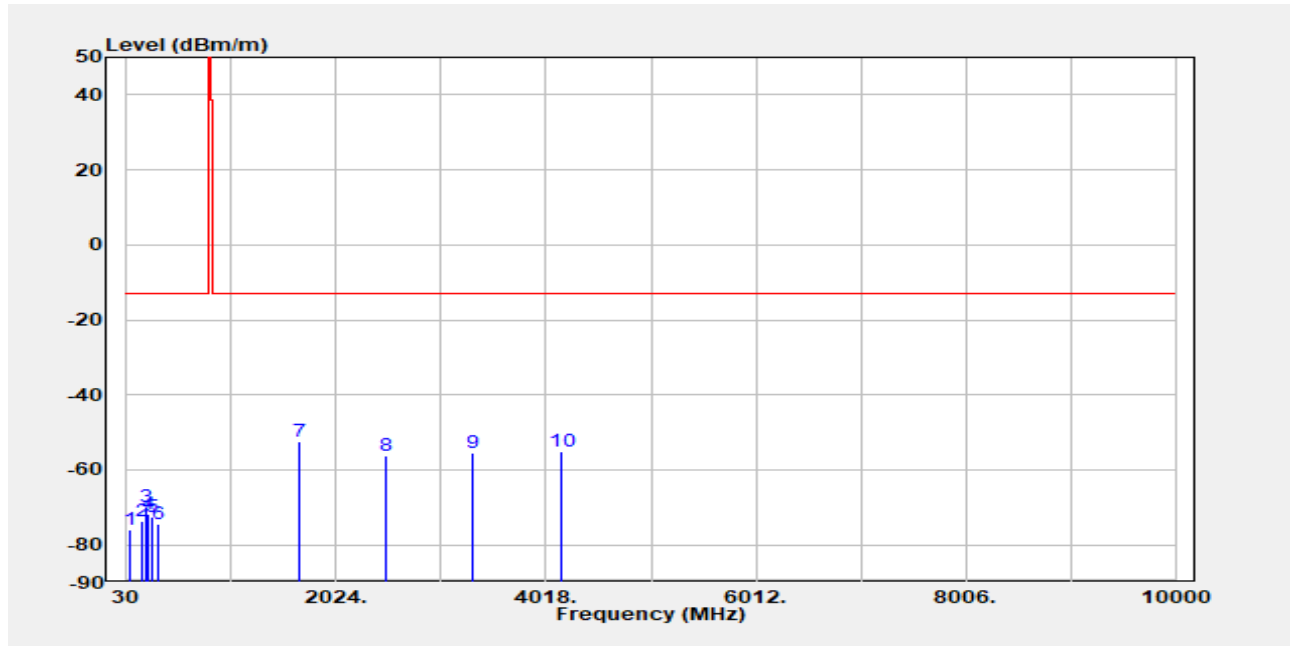
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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B26
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :831.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
63.950	-76.05	-65.97	-8.61	-1.46	-13.00	-63.05
167.740	-73.71	-70.98	-0.35	-2.37	-13.00	-60.71
216.240	-69.95	-71.85	4.58	-2.69	-13.00	-56.95
231.760	-71.90	-73.58	4.46	-2.78	-13.00	-58.90
263.770	-72.50	-73.67	4.15	-2.98	-13.00	-59.50
328.760	-74.59	-75.15	3.87	-3.31	-13.00	-61.59
1663.000	-52.56	-54.70	9.63	-7.49	-13.00	-39.56
2494.500	-56.22	-57.51	10.55	-9.26	-13.00	-43.22
3326.000	-55.52	-57.12	12.35	-10.75	-13.00	-42.52
4157.500	-55.24	-55.68	12.50	-12.06	-13.00	-42.24

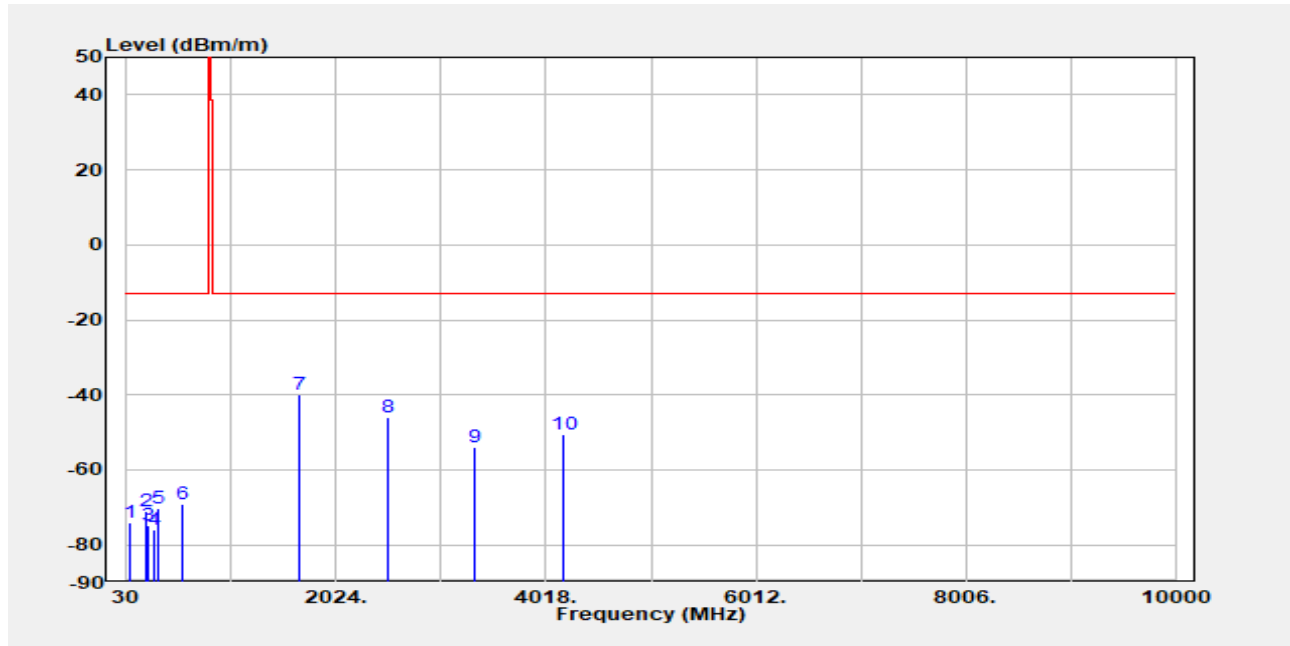
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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B26
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :836.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
63.950	-74.08	-64.01	-8.61	-1.46	-13.00	-61.08
216.240	-71.10	-73.00	4.58	-2.69	-13.00	-58.10
231.760	-74.75	-76.43	4.46	-2.78	-13.00	-61.75
282.200	-75.91	-76.54	3.70	-3.07	-13.00	-62.91
329.730	-70.26	-70.79	3.85	-3.32	-13.00	-57.26
558.650	-69.12	-69.25	4.45	-4.31	-13.00	-56.12
1673.000	-40.03	-42.24	9.73	-7.52	-13.00	-27.03
2509.500	-45.80	-47.21	10.70	-9.29	-13.00	-32.80
3346.000	-53.88	-55.49	12.39	-10.78	-13.00	-40.88
4182.500	-50.43	-50.83	12.50	-12.10	-13.00	-37.43

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B26

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :836.5 MHz

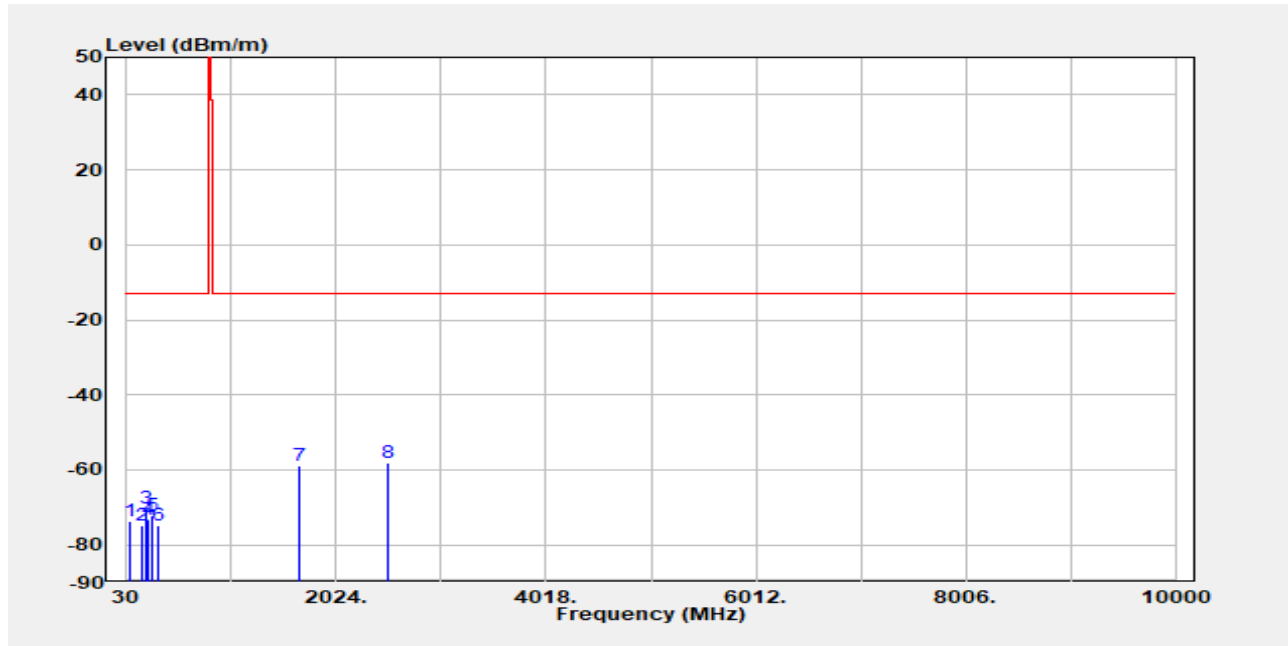
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Horizontal

Engineer :Cooper Hsu



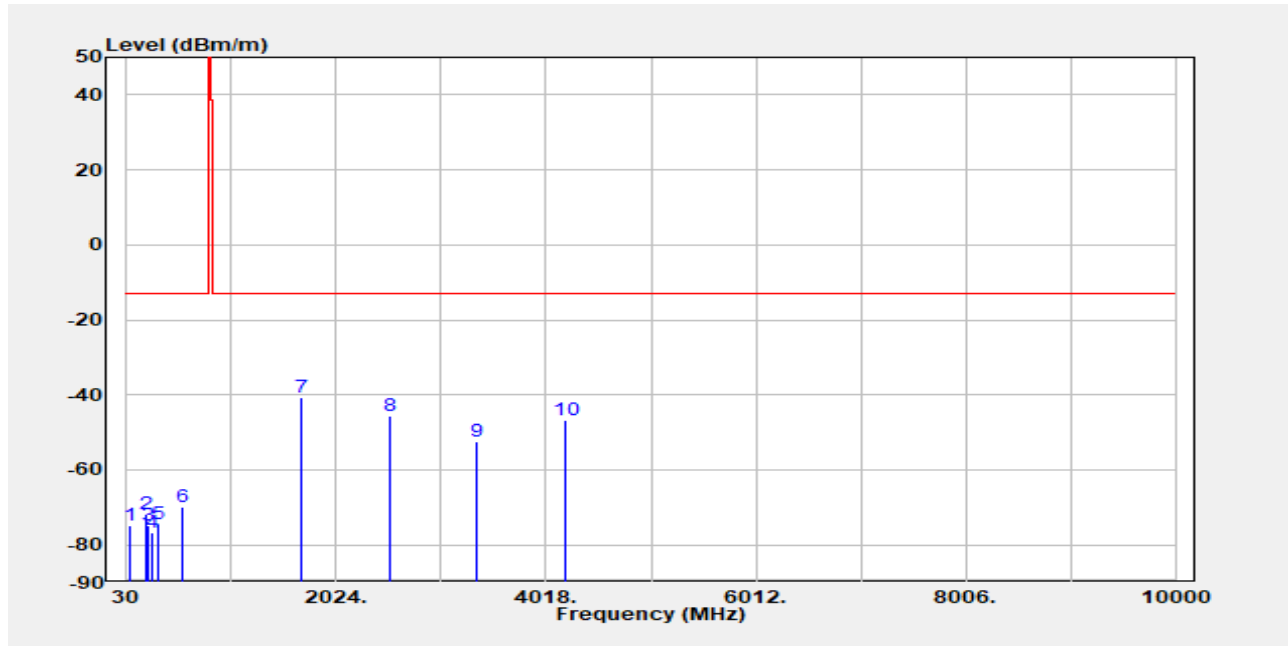
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
63.950	-73.64	-63.57	-8.61	-1.46	-13.00	-60.64
167.740	-74.70	-71.98	-0.35	-2.37	-13.00	-61.70
216.240	-70.15	-72.05	4.58	-2.69	-13.00	-57.15
235.640	-73.13	-74.28	3.96	-2.80	-13.00	-60.13
263.770	-72.28	-73.45	4.15	-2.98	-13.00	-59.28
328.760	-74.80	-75.35	3.87	-3.31	-13.00	-61.80
1673.000	-58.88	-61.09	9.73	-7.52	-13.00	-45.88
2509.500	-58.21	-59.62	10.70	-9.29	-13.00	-45.21

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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B26
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :841.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
63.950	-74.97	-64.89	-8.61	-1.46	-13.00	-61.97
216.240	-71.78	-73.67	4.58	-2.69	-13.00	-58.78
233.700	-74.72	-76.11	4.18	-2.79	-13.00	-61.72
263.770	-76.64	-77.82	4.15	-2.98	-13.00	-63.64
329.730	-74.46	-75.00	3.85	-3.32	-13.00	-61.46
559.620	-69.92	-70.05	4.44	-4.32	-13.00	-56.92
1683.000	-40.62	-42.91	9.83	-7.54	-13.00	-27.62
2524.500	-45.63	-46.87	10.56	-9.32	-13.00	-32.63
3366.000	-52.46	-54.11	12.46	-10.82	-13.00	-39.46
4207.500	-46.67	-47.05	12.52	-12.13	-13.00	-33.67

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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

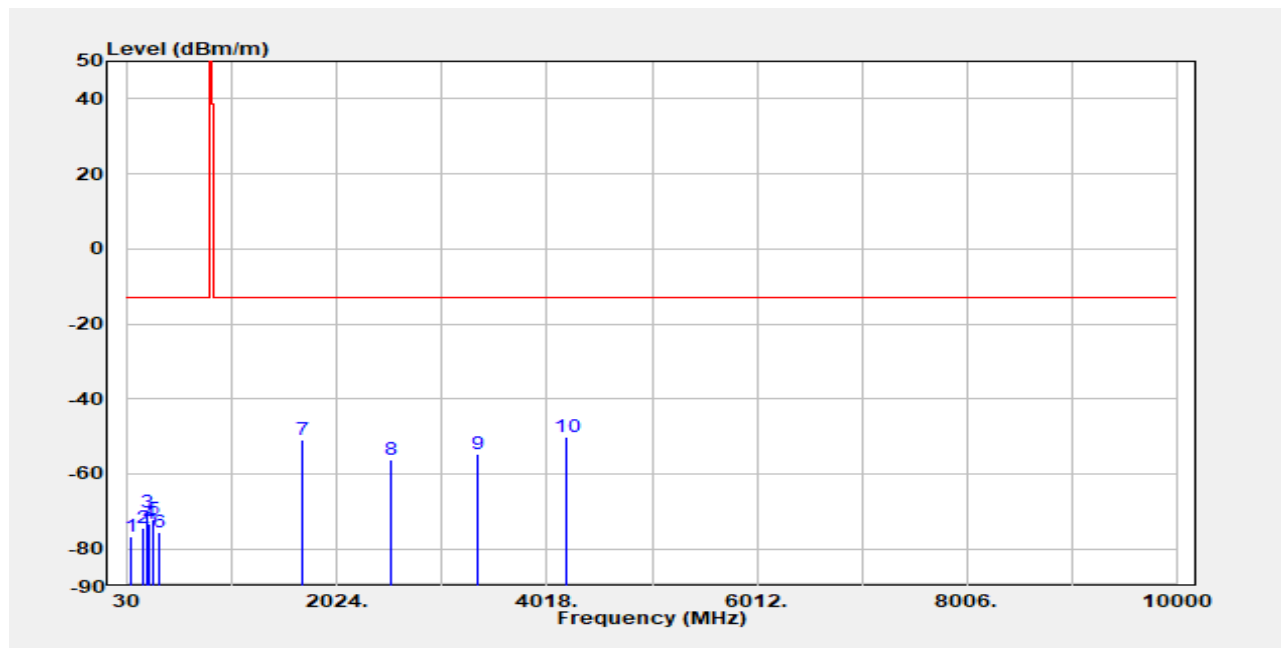
f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B26
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :841.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
63.950	-76.68	-66.61	-8.61	-1.46	-13.00	-63.68
167.740	-74.51	-71.79	-0.35	-2.37	-13.00	-61.51
216.240	-70.23	-72.13	4.58	-2.69	-13.00	-57.23
230.790	-73.42	-75.25	4.60	-2.77	-13.00	-60.42
263.770	-72.33	-73.50	4.15	-2.98	-13.00	-59.33
332.640	-75.65	-76.18	3.87	-3.33	-13.00	-62.65
1683.000	-50.77	-53.06	9.83	-7.54	-13.00	-37.77
2524.500	-56.10	-57.34	10.56	-9.32	-13.00	-43.10
3366.000	-54.90	-56.55	12.46	-10.82	-13.00	-41.90
4207.500	-50.11	-50.49	12.52	-12.13	-13.00	-37.11

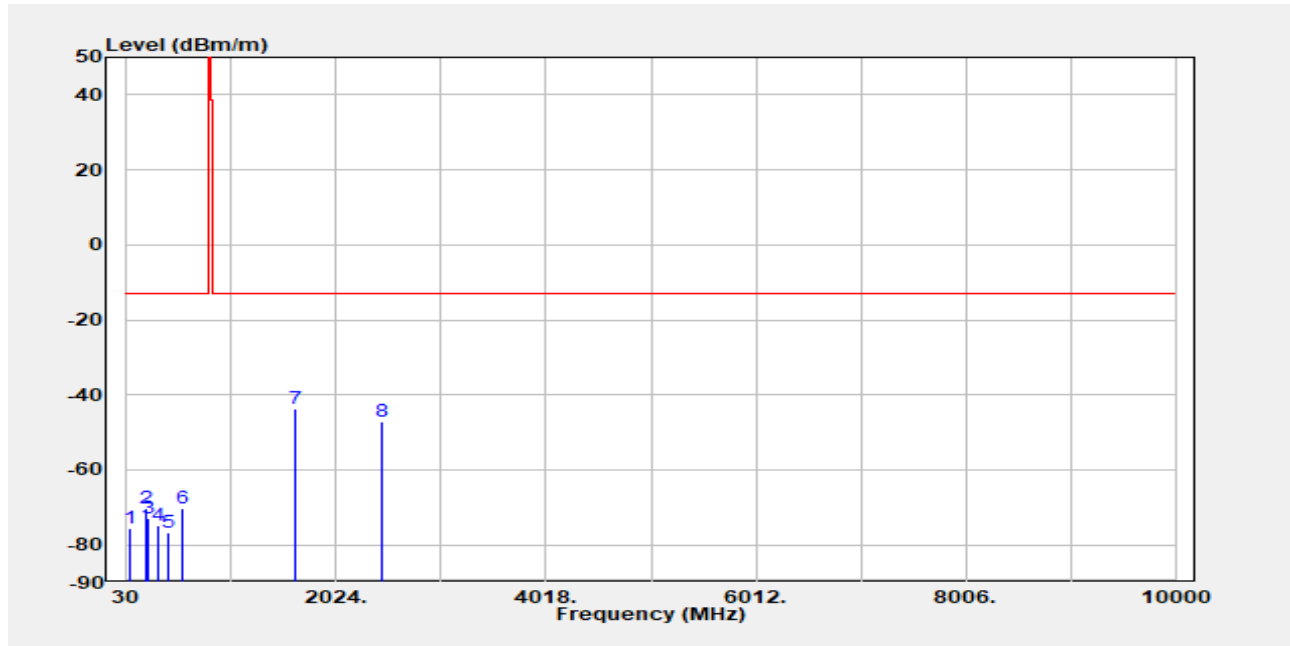
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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B26(Part90S)
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :816.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



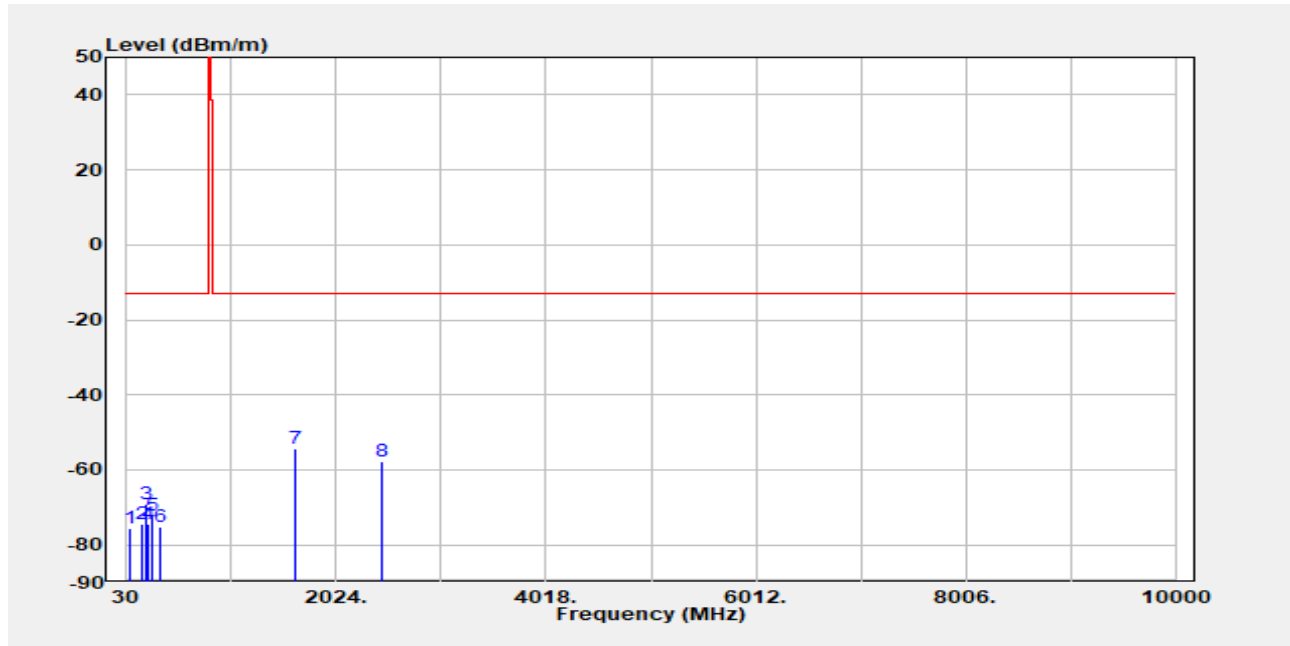
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
63.950	-75.74	-65.67	-8.61	-1.46	-13.00	-62.74
216.240	-70.34	-72.23	4.58	-2.69	-13.00	-57.34
230.790	-73.07	-74.90	4.60	-2.77	-13.00	-60.07
328.760	-74.92	-75.47	3.87	-3.31	-13.00	-61.92
424.790	-76.85	-77.15	4.05	-3.76	-13.00	-63.85
550.890	-70.39	-70.68	4.57	-4.28	-13.00	-57.39
1633.000	-43.65	-45.63	9.40	-7.42	-13.00	-30.65
2449.500	-47.00	-48.23	10.40	-9.18	-13.00	-34.00

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 :TERF2408002531ER
Operation Mode :CAT-M1 B26(Part90S)
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :816.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



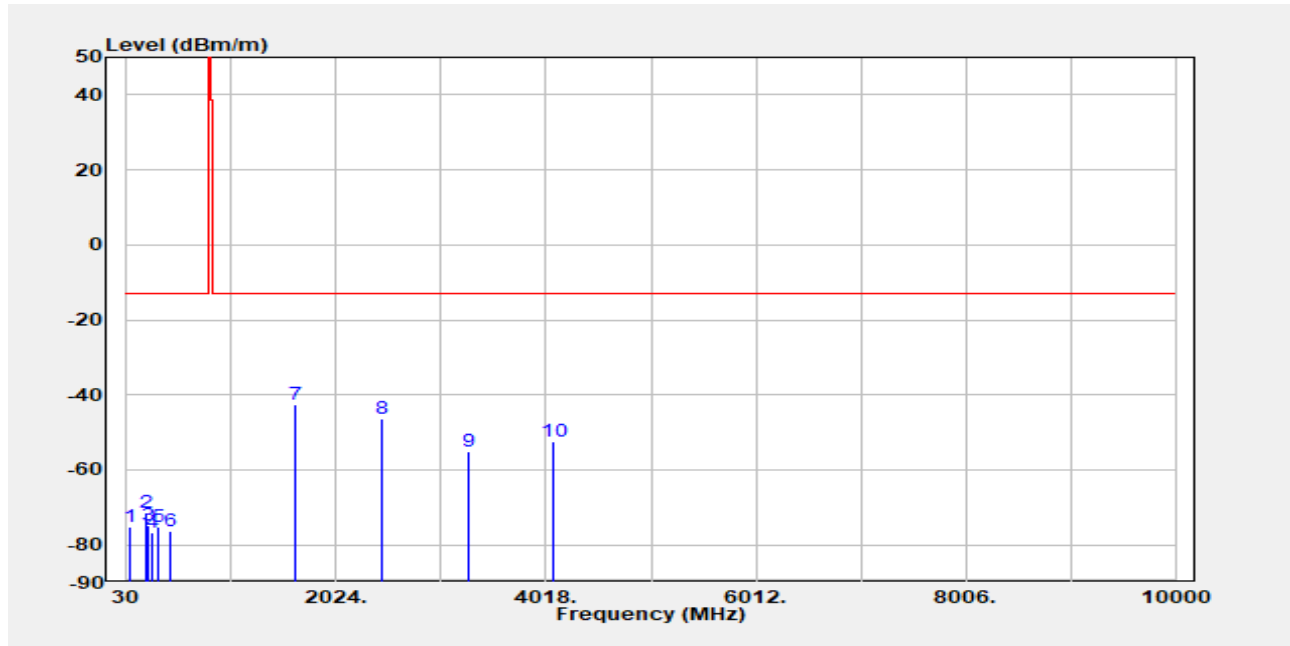
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
63.950	-75.65	-65.57	-8.61	-1.46	-13.00	-62.65
167.740	-74.63	-71.90	-0.35	-2.37	-13.00	-61.63
216.240	-69.23	-71.13	4.58	-2.69	-13.00	-56.23
231.760	-74.34	-76.02	4.46	-2.78	-13.00	-61.34
263.770	-72.15	-73.33	4.15	-2.98	-13.00	-59.15
344.280	-75.15	-75.80	4.04	-3.39	-13.00	-62.15
1633.000	-54.27	-56.25	9.40	-7.42	-13.00	-41.27
2449.500	-57.87	-59.09	10.40	-9.18	-13.00	-44.87

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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B26(Part90S)
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :819 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



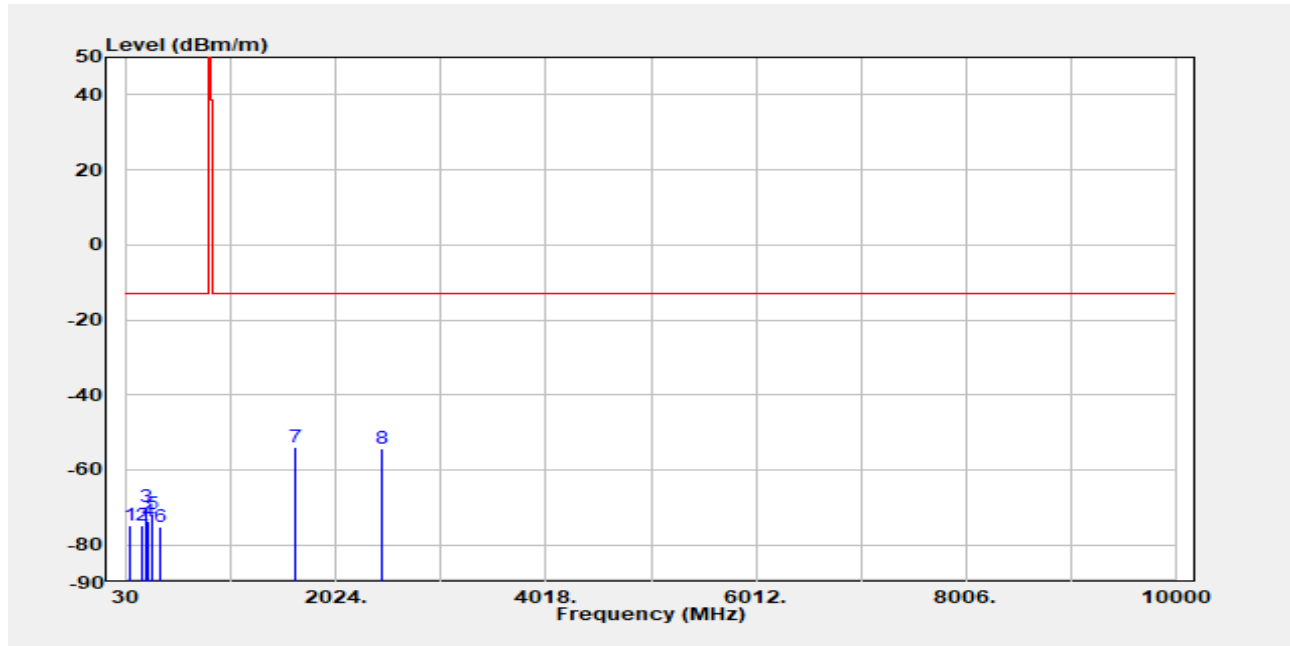
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
63.950	-75.09	-65.02	-8.61	-1.46	-13.00	-62.09
216.240	-71.53	-73.42	4.58	-2.69	-13.00	-58.53
233.700	-74.85	-76.24	4.18	-2.79	-13.00	-61.85
279.290	-76.73	-77.38	3.71	-3.06	-13.00	-63.73
328.760	-75.33	-75.88	3.87	-3.31	-13.00	-62.33
450.010	-76.22	-76.09	3.74	-3.87	-13.00	-63.22
1638.000	-42.56	-44.53	9.40	-7.43	-13.00	-29.56
2457.000	-46.43	-47.71	10.47	-9.19	-13.00	-33.43
3276.000	-55.01	-56.45	12.11	-10.67	-13.00	-42.01
4095.000	-52.43	-53.07	12.60	-11.96	-13.00	-39.43

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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B26(Part90S)
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :819 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



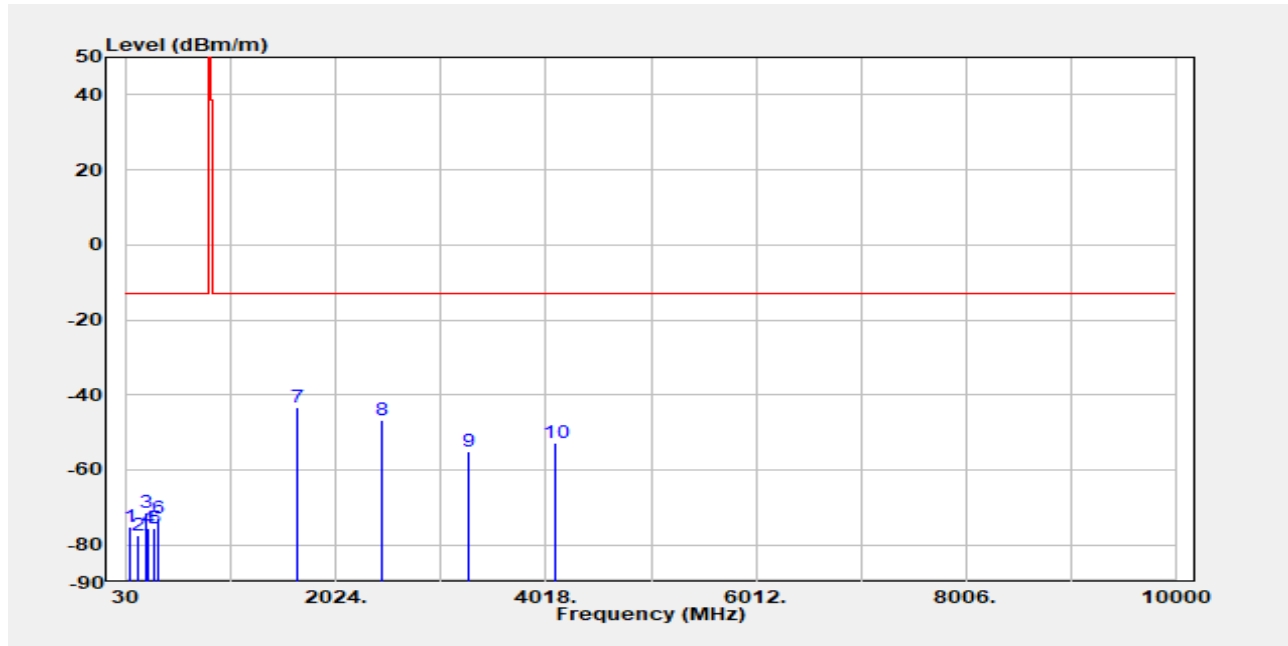
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
63.950	-74.78	-64.71	-8.61	-1.46	-13.00	-61.78
167.740	-74.84	-72.11	-0.35	-2.37	-13.00	-61.84
216.240	-69.85	-71.74	4.58	-2.69	-13.00	-56.85
232.730	-73.55	-75.08	4.32	-2.79	-13.00	-60.55
263.770	-71.95	-73.12	4.15	-2.98	-13.00	-58.95
348.160	-75.29	-76.00	4.12	-3.40	-13.00	-62.29
1638.000	-54.13	-56.10	9.40	-7.43	-13.00	-41.13
2457.000	-54.35	-55.63	10.47	-9.19	-13.00	-41.35

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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B26(Part90S)
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :821.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
63.950	-75.30	-65.22	-8.61	-1.46	-13.00	-62.30
132.820	-77.62	-73.86	-1.65	-2.11	-13.00	-64.62
216.240	-71.31	-73.20	4.58	-2.69	-13.00	-58.31
230.790	-75.41	-77.23	4.60	-2.77	-13.00	-62.41
289.960	-75.44	-76.06	3.73	-3.11	-13.00	-62.44
329.730	-72.78	-73.31	3.85	-3.32	-13.00	-59.78
1643.000	-43.18	-45.16	9.43	-7.44	-13.00	-30.18
2464.500	-46.68	-48.02	10.55	-9.21	-13.00	-33.68
3286.000	-55.02	-56.52	12.19	-10.68	-13.00	-42.02
4107.500	-52.95	-53.55	12.59	-11.98	-13.00	-39.95

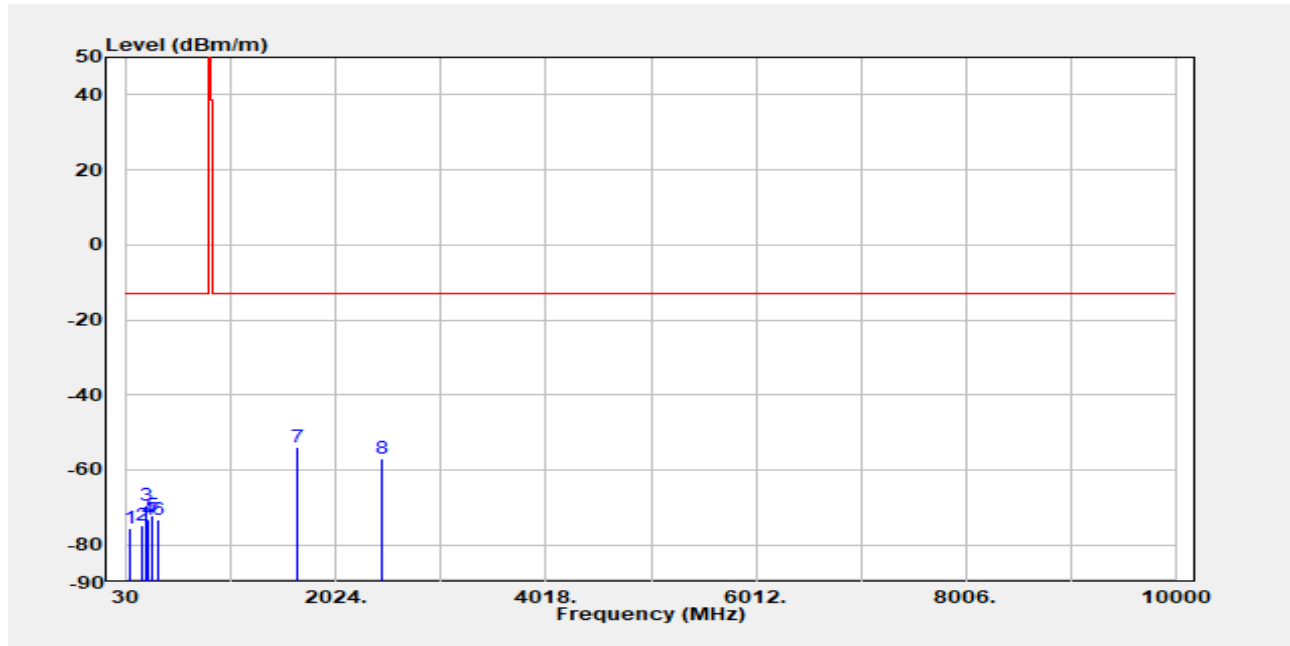
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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B26(Part90S)
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :821.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
63.950	-75.63	-65.55	-8.61	-1.46	-13.00	-62.63
167.740	-74.74	-72.01	-0.35	-2.37	-13.00	-61.74
216.240	-69.55	-71.45	4.58	-2.69	-13.00	-56.55
231.760	-73.30	-74.98	4.46	-2.78	-13.00	-60.30
263.770	-72.35	-73.52	4.15	-2.98	-13.00	-59.35
328.760	-73.34	-73.89	3.87	-3.31	-13.00	-60.34
1643.000	-54.08	-56.07	9.43	-7.44	-13.00	-41.08
2464.500	-57.16	-58.50	10.55	-9.21	-13.00	-44.16

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B66

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1720 MHz

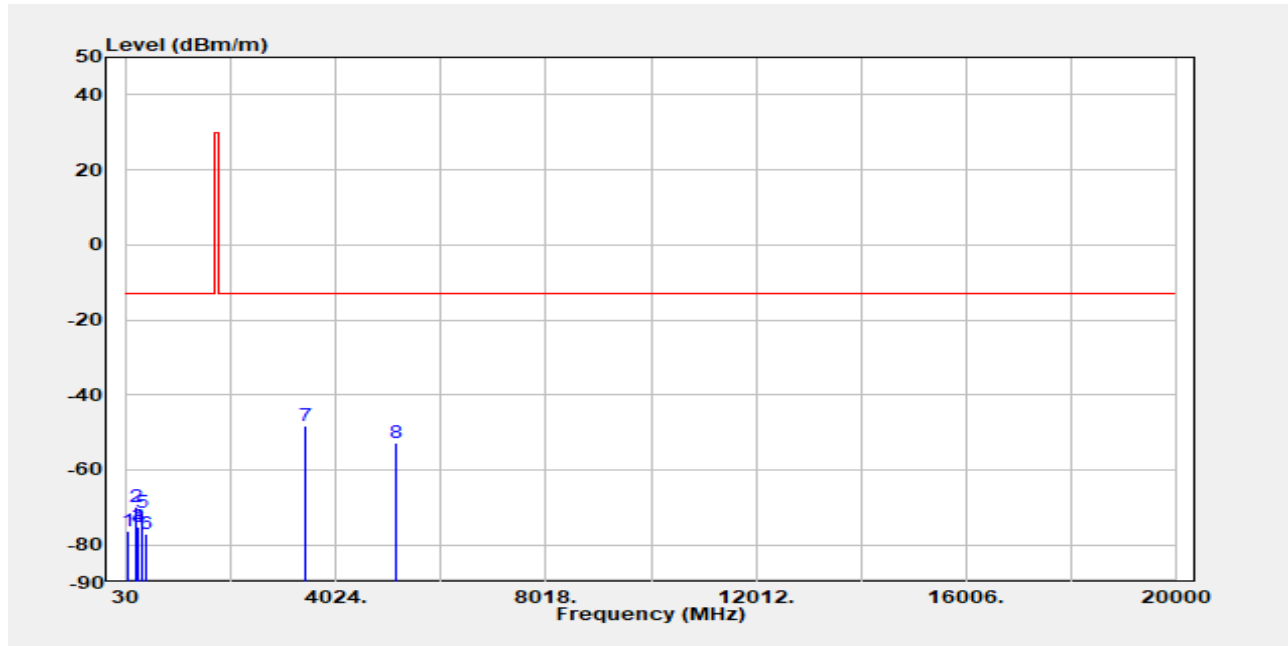
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Vertical

Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
52.310	-76.36	-63.45	-11.58	-1.33	-13.00	-63.36
216.240	-69.72	-71.62	4.58	-2.69	-13.00	-56.72
232.730	-75.27	-76.81	4.32	-2.79	-13.00	-62.27
263.770	-75.22	-76.40	4.15	-2.98	-13.00	-62.22
327.790	-71.24	-71.81	3.88	-3.31	-13.00	-58.24
395.690	-77.03	-77.31	3.91	-3.63	-13.00	-64.03
3440.000	-48.20	-49.86	12.60	-10.93	-13.00	-35.20
5160.000	-52.71	-51.63	12.44	-13.52	-13.00	-39.71

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B66

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1720 MHz

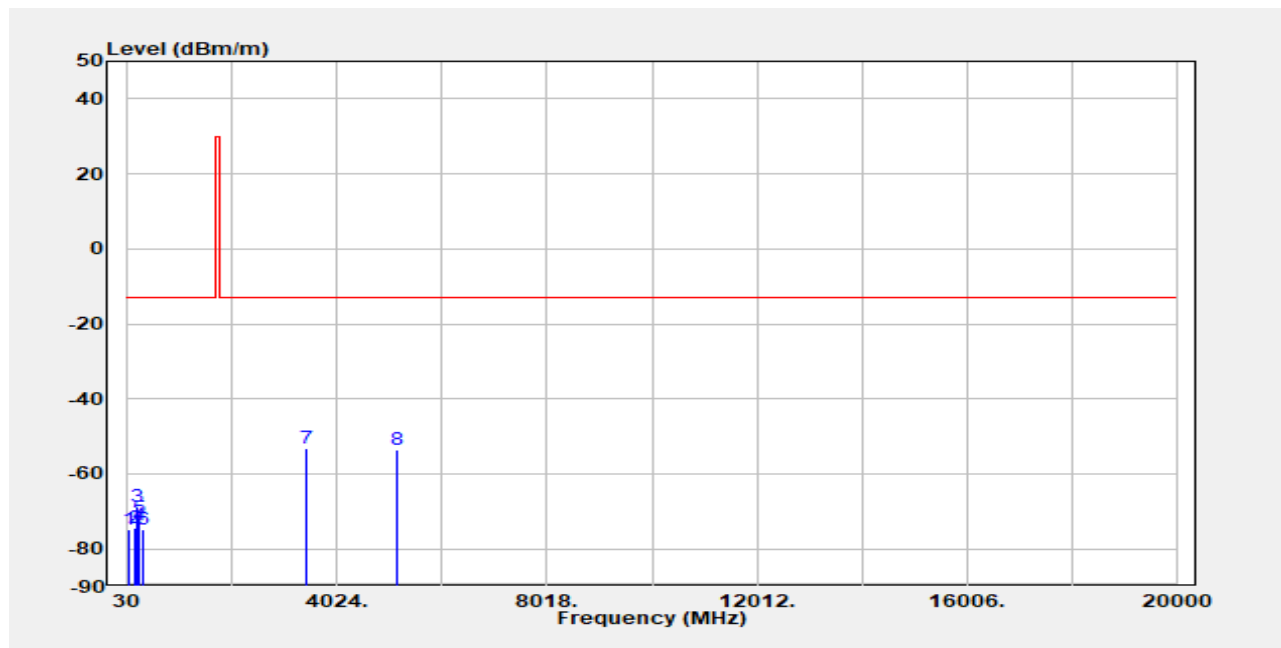
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Horizontal

Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
63.950	-74.70	-64.62	-8.61	-1.46	-13.00	-61.70
167.740	-74.46	-71.74	-0.35	-2.37	-13.00	-61.46
216.240	-68.93	-70.82	4.58	-2.69	-13.00	-55.93
233.700	-73.78	-75.17	4.18	-2.79	-13.00	-60.78
263.770	-71.76	-72.93	4.15	-2.98	-13.00	-58.76
329.730	-74.70	-75.23	3.85	-3.32	-13.00	-61.70
3440.000	-53.37	-55.03	12.60	-10.93	-13.00	-40.37
5160.000	-53.48	-52.39	12.44	-13.52	-13.00	-40.48

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B66

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1745 MHz

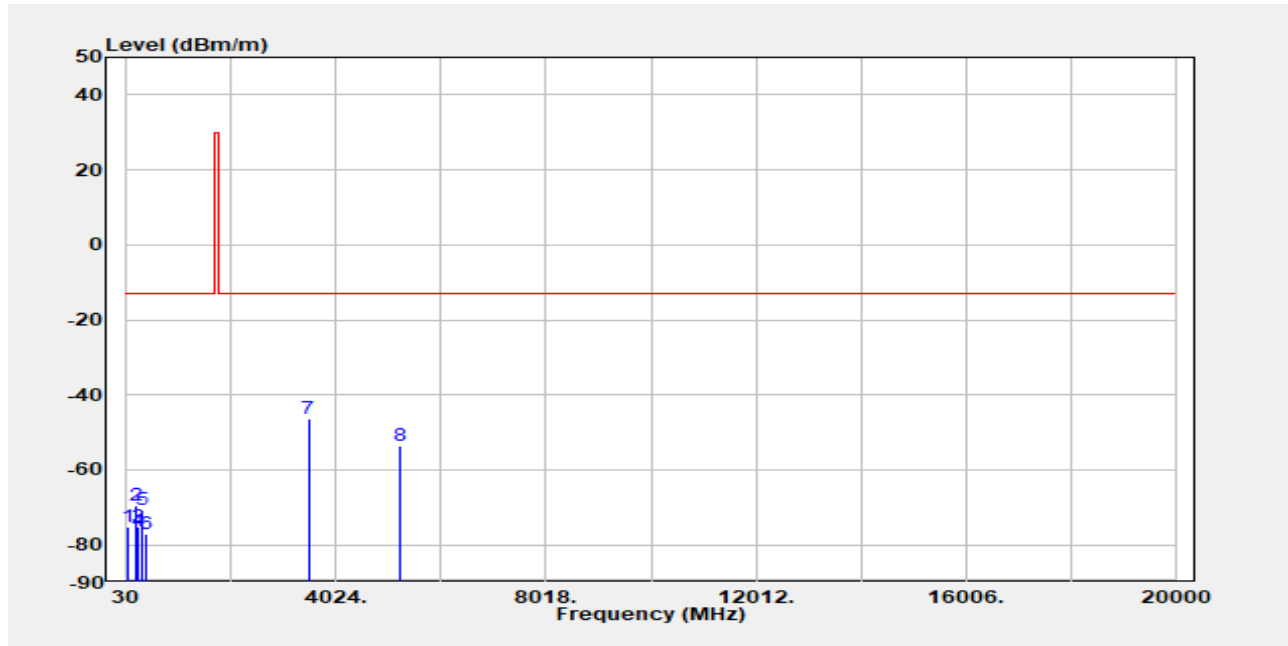
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Vertical

Engineer :Cooper Hsu



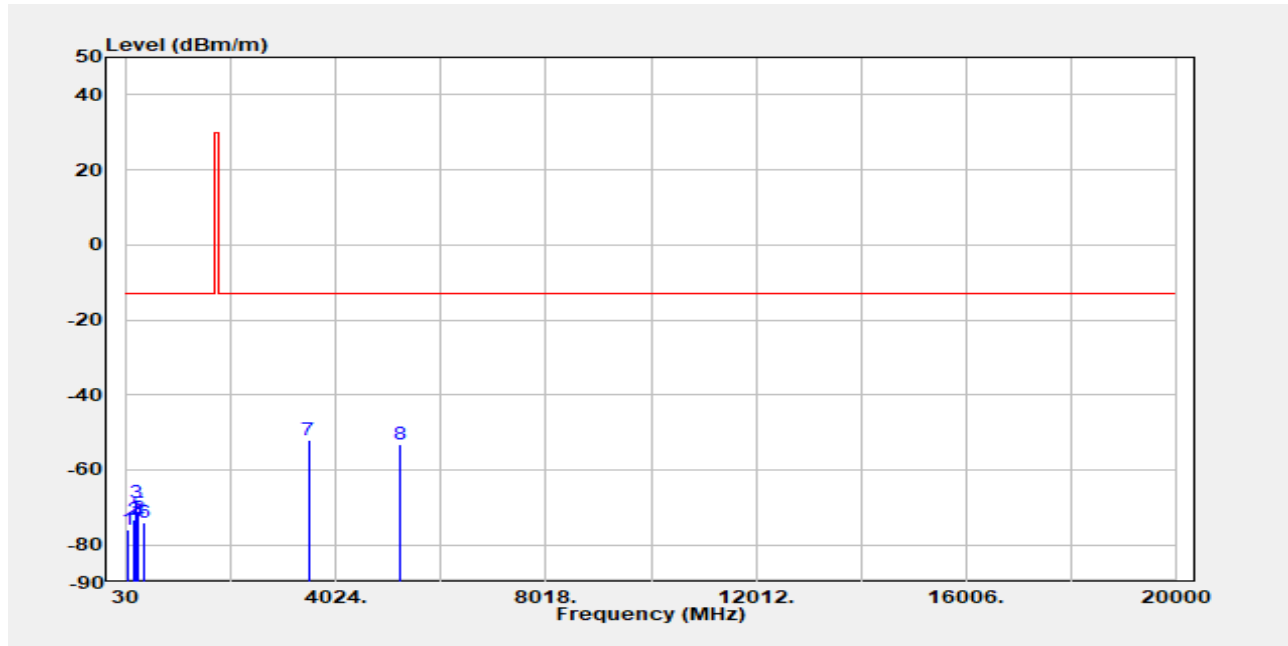
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
63.950	-75.17	-65.10	-8.61	-1.46	-13.00	-62.17
216.240	-69.62	-71.51	4.58	-2.69	-13.00	-56.62
231.760	-75.13	-76.81	4.46	-2.78	-13.00	-62.13
263.770	-76.31	-77.49	4.15	-2.98	-13.00	-63.31
329.730	-70.60	-71.13	3.85	-3.32	-13.00	-57.60
409.270	-77.21	-77.55	4.02	-3.69	-13.00	-64.21
3490.000	-46.55	-47.98	12.44	-11.01	-13.00	-33.55
5235.000	-53.51	-52.69	12.81	-13.63	-13.00	-40.51

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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B66
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :1745 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
63.950	-76.08	-66.01	-8.61	-1.46	-13.00	-63.08
167.740	-73.30	-70.57	-0.35	-2.37	-13.00	-60.30
216.240	-68.67	-70.56	4.58	-2.69	-13.00	-55.67
233.700	-73.87	-75.26	4.18	-2.79	-13.00	-60.87
263.770	-71.77	-72.94	4.15	-2.98	-13.00	-58.77
345.250	-74.01	-74.67	4.05	-3.39	-13.00	-61.01
3490.000	-52.00	-53.43	12.44	-11.01	-13.00	-39.00
5235.000	-53.13	-52.31	12.81	-13.63	-13.00	-40.13

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B66

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1770 MHz

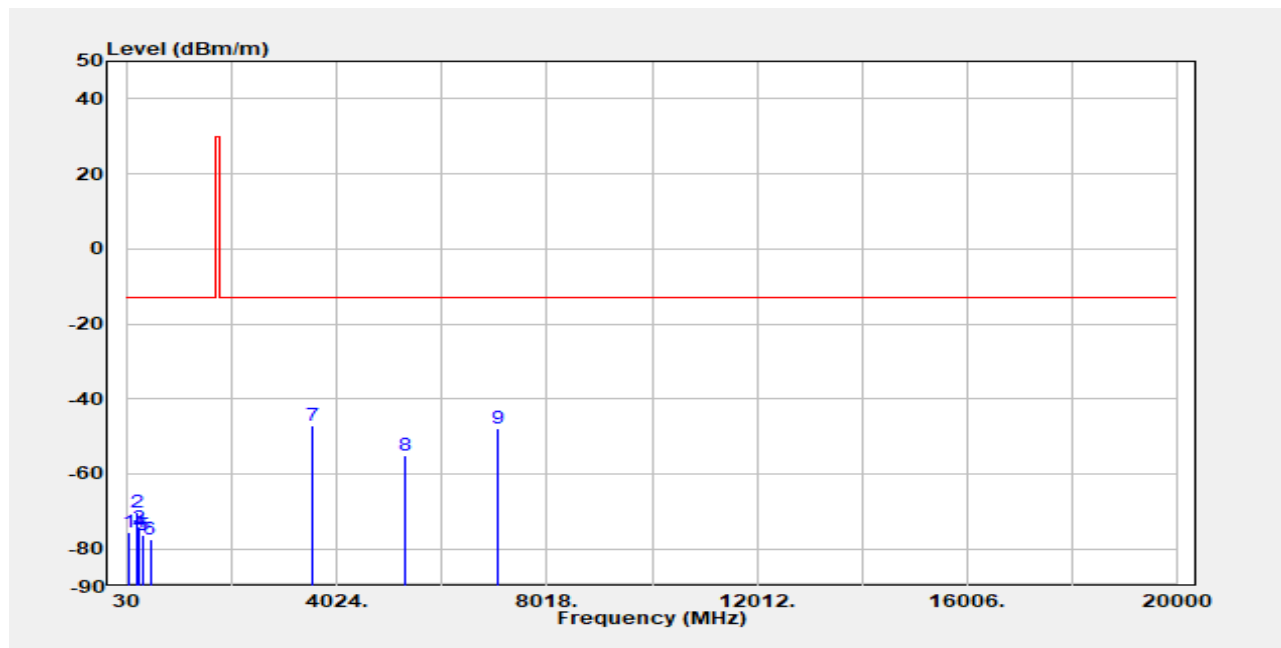
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Vertical

Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
63.950	-75.63	-65.56	-8.61	-1.46	-13.00	-62.63
216.240	-70.10	-71.99	4.58	-2.69	-13.00	-57.10
233.700	-74.62	-76.01	4.18	-2.79	-13.00	-61.62
263.770	-75.42	-76.59	4.15	-2.98	-13.00	-62.42
332.640	-76.44	-76.97	3.87	-3.33	-13.00	-63.44
456.800	-77.62	-77.56	3.84	-3.90	-13.00	-64.62
3540.000	-47.10	-48.25	12.24	-11.09	-13.00	-34.10
5310.000	-55.17	-54.46	13.02	-13.73	-13.00	-42.17
7080.000	-47.77	-42.88	11.08	-15.97	-13.00	-34.77

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B66

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :1770 MHz

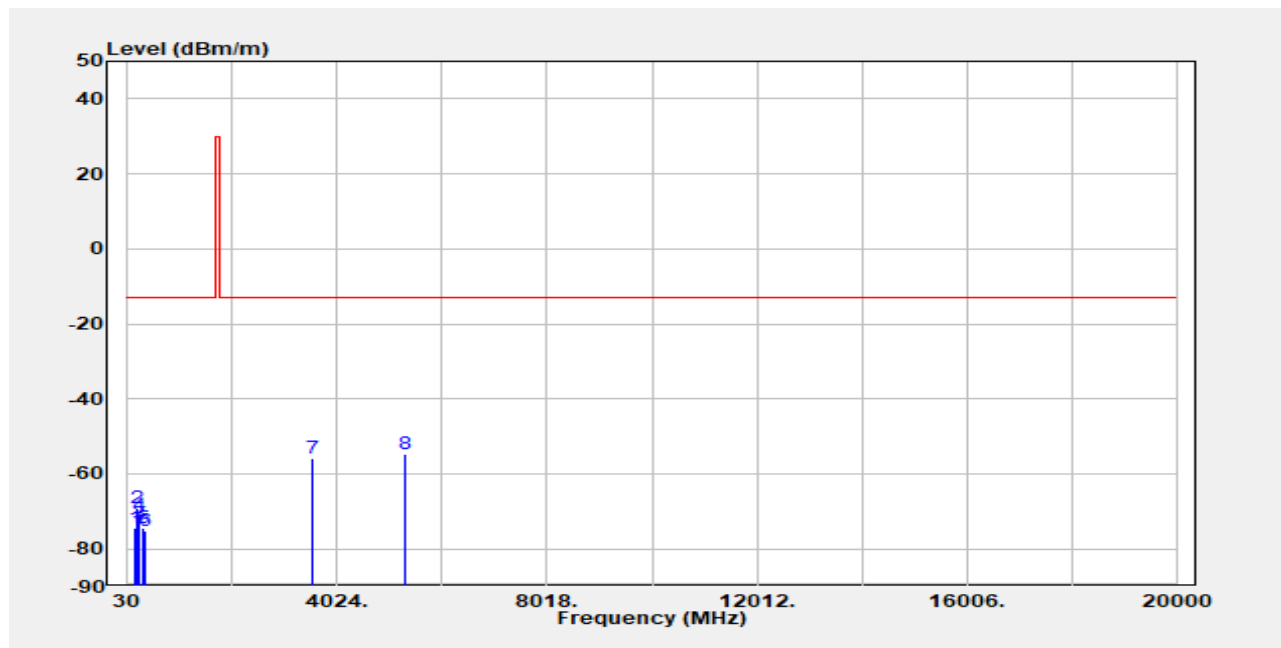
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Horizontal

Engineer :Cooper Hsu



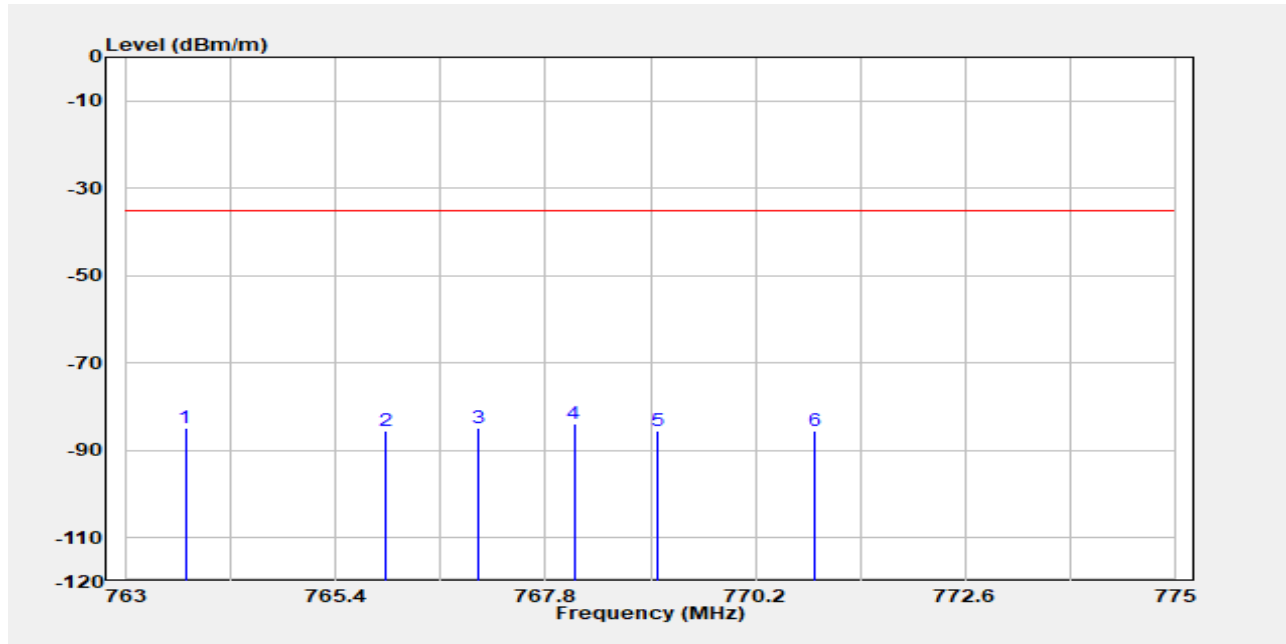
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
167.740	-74.32	-71.59	-0.35	-2.37	-13.00	-61.32
216.240	-69.21	-71.10	4.58	-2.69	-13.00	-56.21
233.700	-73.46	-74.86	4.18	-2.79	-13.00	-60.46
263.770	-71.02	-72.19	4.15	-2.98	-13.00	-58.02
328.760	-74.51	-75.06	3.87	-3.31	-13.00	-61.51
378.230	-75.04	-75.50	4.01	-3.55	-13.00	-62.04
3540.000	-55.95	-57.10	12.24	-11.09	-13.00	-42.95
5310.000	-54.80	-54.09	13.02	-13.73	-13.00	-41.80

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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B13
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :779.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
763.672	-84.78	-83.22	3.46	-5.02	-35.00	-49.78
765.964	-85.51	-83.93	3.46	-5.03	-35.00	-50.51
767.032	-84.98	-83.41	3.47	-5.04	-35.00	-49.98
768.124	-83.86	-82.31	3.49	-5.04	-35.00	-48.86
769.084	-85.53	-83.98	3.50	-5.05	-35.00	-50.53
770.884	-85.54	-84.01	3.52	-5.05	-35.00	-50.54

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B13

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :779.5 MHz

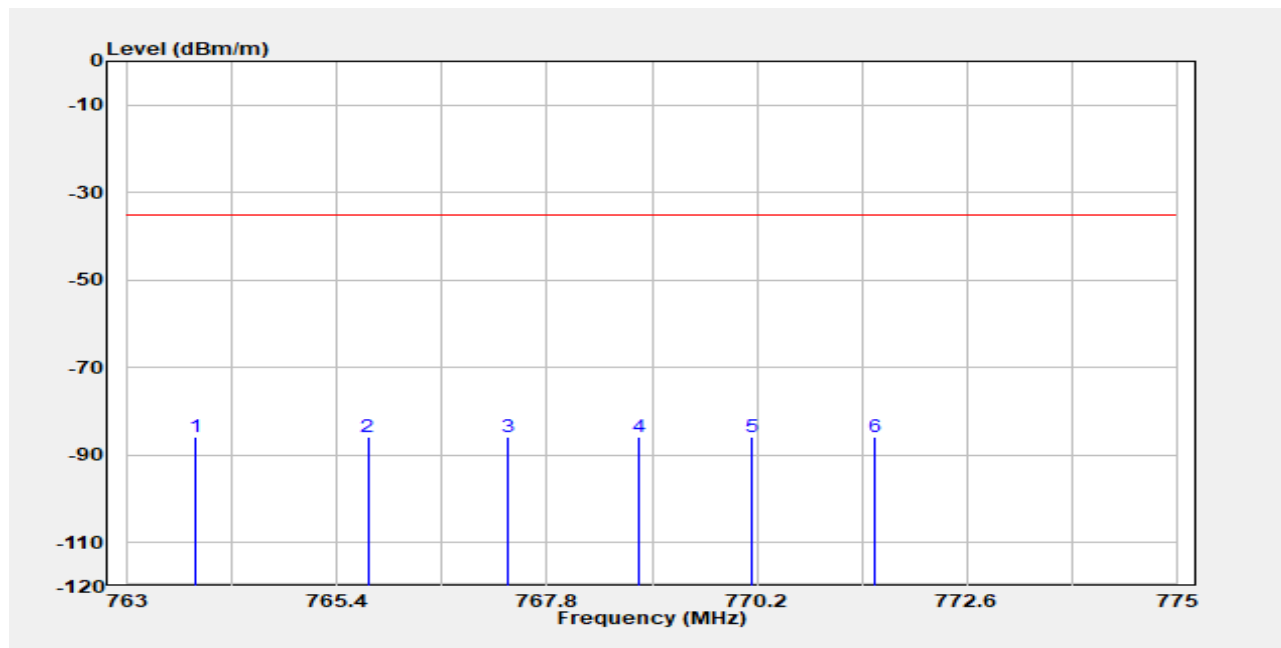
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Horizontal

Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
763.780	-85.89	-84.33	3.46	-5.03	-35.00	-50.89
765.748	-85.87	-84.30	3.46	-5.03	-35.00	-50.87
767.344	-85.84	-84.28	3.48	-5.04	-35.00	-50.84
768.856	-85.90	-84.35	3.50	-5.05	-35.00	-50.90
770.140	-85.73	-84.20	3.51	-5.05	-35.00	-50.73
771.544	-85.99	-84.46	3.53	-5.05	-35.00	-50.99

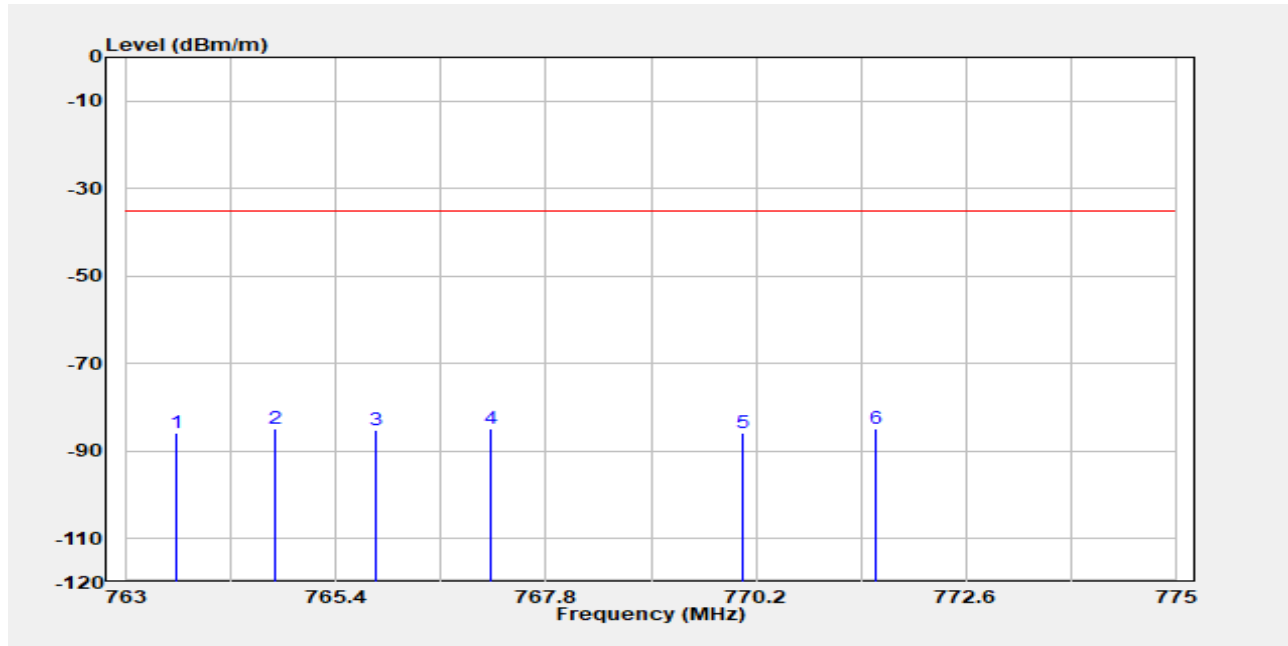
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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B13
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :782 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



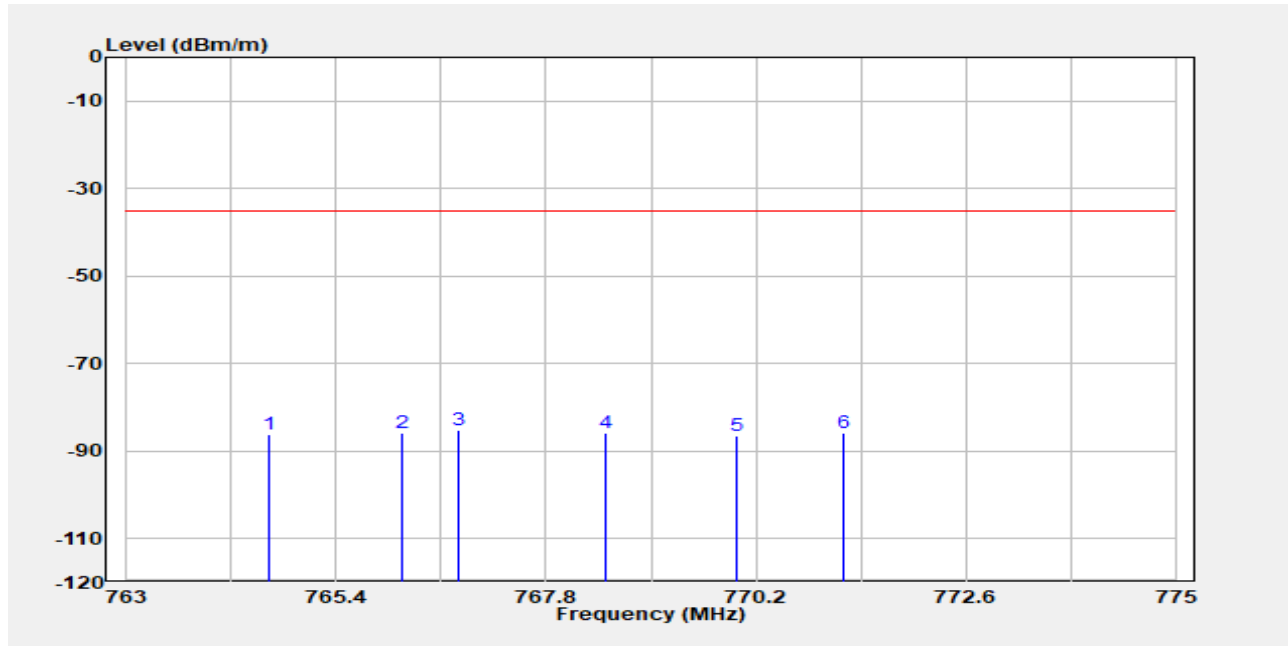
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
763.564	-85.89	-84.33	3.46	-5.02	-35.00	-50.89
764.692	-84.98	-83.41	3.45	-5.03	-35.00	-49.98
765.844	-85.34	-83.76	3.46	-5.03	-35.00	-50.34
767.164	-84.92	-83.36	3.48	-5.04	-35.00	-49.92
770.056	-85.91	-84.37	3.51	-5.05	-35.00	-50.91
771.580	-84.99	-83.46	3.53	-5.05	-35.00	-49.99

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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B13
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :782 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
764.632	-86.03	-84.45	3.45	-5.03	-35.00	-51.03
766.156	-85.74	-84.17	3.46	-5.03	-35.00	-50.74
766.804	-85.18	-83.61	3.47	-5.04	-35.00	-50.18
768.484	-86.00	-84.44	3.49	-5.04	-35.00	-51.00
769.984	-86.58	-85.04	3.51	-5.05	-35.00	-51.58
771.196	-85.87	-84.34	3.52	-5.05	-35.00	-50.87

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B13

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :784.5 MHz

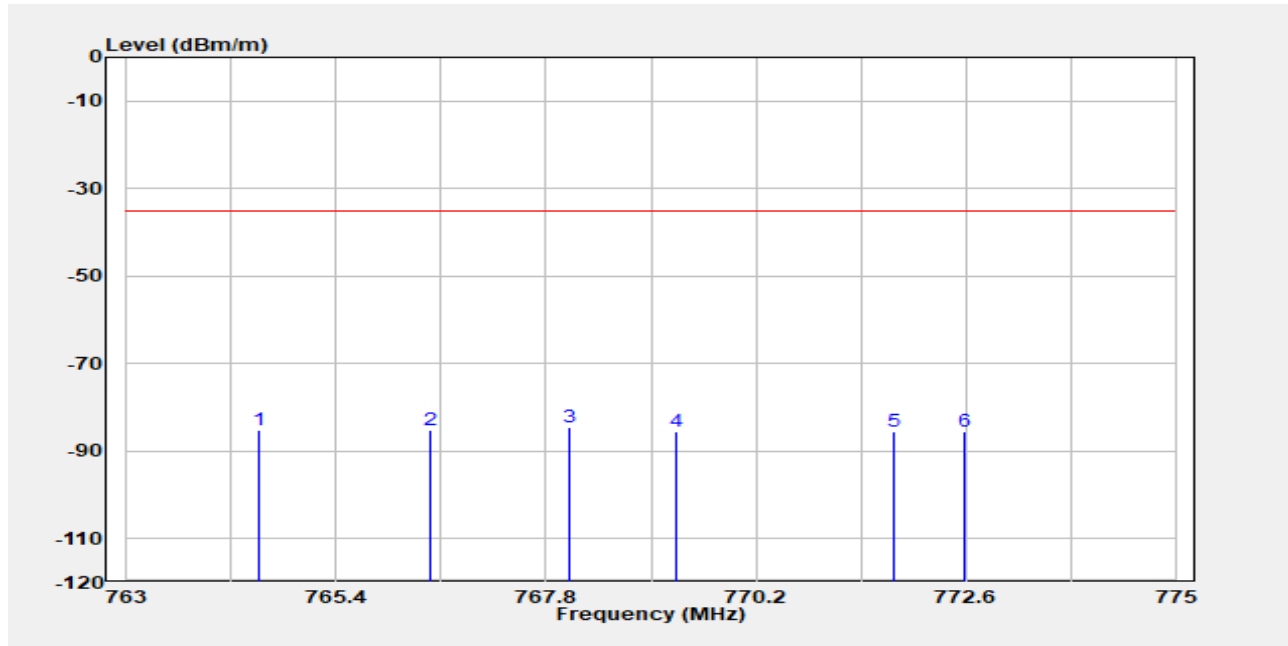
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Vertical

Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
764.524	-85.27	-83.70	3.45	-5.03	-35.00	-50.27
766.468	-85.04	-83.47	3.47	-5.04	-35.00	-50.04
768.076	-84.64	-83.09	3.49	-5.04	-35.00	-49.64
769.288	-85.65	-84.10	3.50	-5.05	-35.00	-50.65
771.784	-85.68	-84.15	3.53	-5.06	-35.00	-50.68
772.588	-85.41	-83.90	3.54	-5.06	-35.00	-50.41

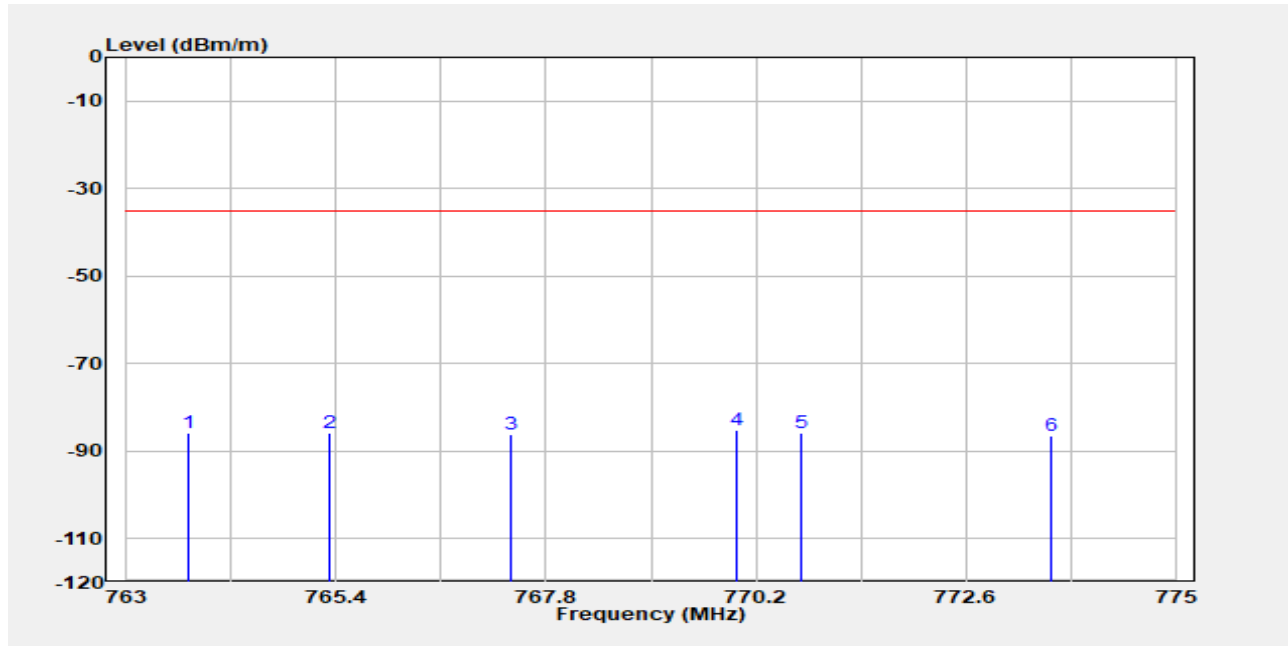
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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B13
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :784.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



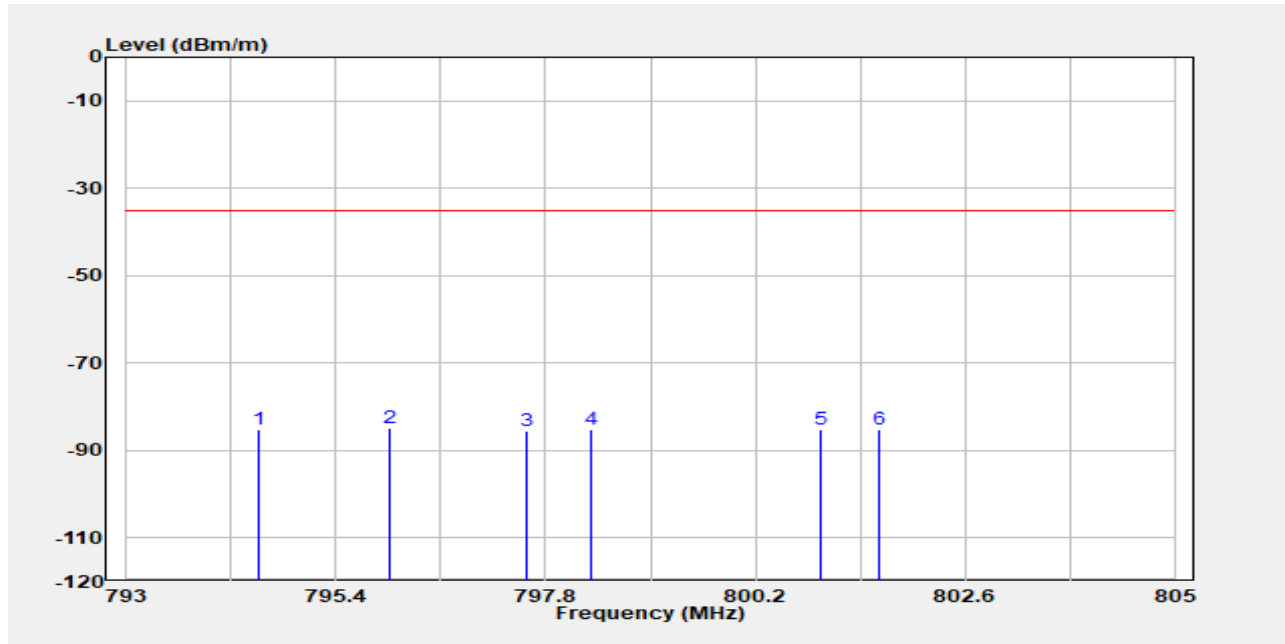
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
763.696	-85.71	-84.14	3.46	-5.02	-35.00	-50.71
765.328	-85.80	-84.23	3.45	-5.03	-35.00	-50.80
767.392	-86.09	-84.52	3.48	-5.04	-35.00	-51.09
769.984	-85.17	-83.63	3.51	-5.05	-35.00	-50.17
770.716	-85.90	-84.37	3.52	-5.05	-35.00	-50.90
773.572	-86.39	-84.88	3.55	-5.06	-35.00	-51.39

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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B13
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :779.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



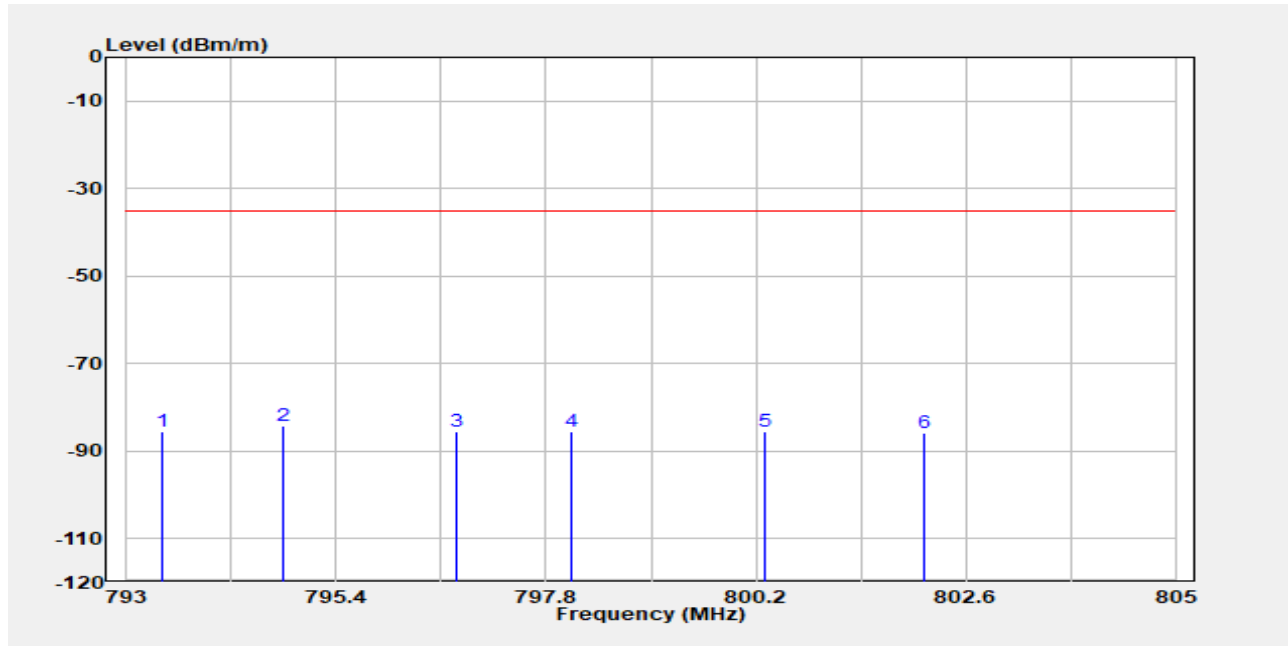
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
794.524	-85.32	-83.60	3.40	-5.13	-35.00	-50.32
796.024	-84.98	-83.22	3.38	-5.13	-35.00	-49.98
797.572	-85.40	-83.62	3.36	-5.14	-35.00	-50.40
798.316	-85.27	-83.48	3.36	-5.14	-35.00	-50.27
800.956	-85.05	-83.23	3.33	-5.15	-35.00	-50.05
801.616	-85.21	-83.38	3.33	-5.15	-35.00	-50.21

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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B13
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :779.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
793.396	-85.50	-83.81	3.43	-5.12	-35.00	-50.50
794.788	-84.13	-82.40	3.40	-5.13	-35.00	-49.13
796.780	-85.45	-83.68	3.37	-5.14	-35.00	-50.45
798.100	-85.57	-83.79	3.36	-5.14	-35.00	-50.57
800.296	-85.62	-83.81	3.34	-5.15	-35.00	-50.62
802.120	-85.83	-84.00	3.32	-5.16	-35.00	-50.83

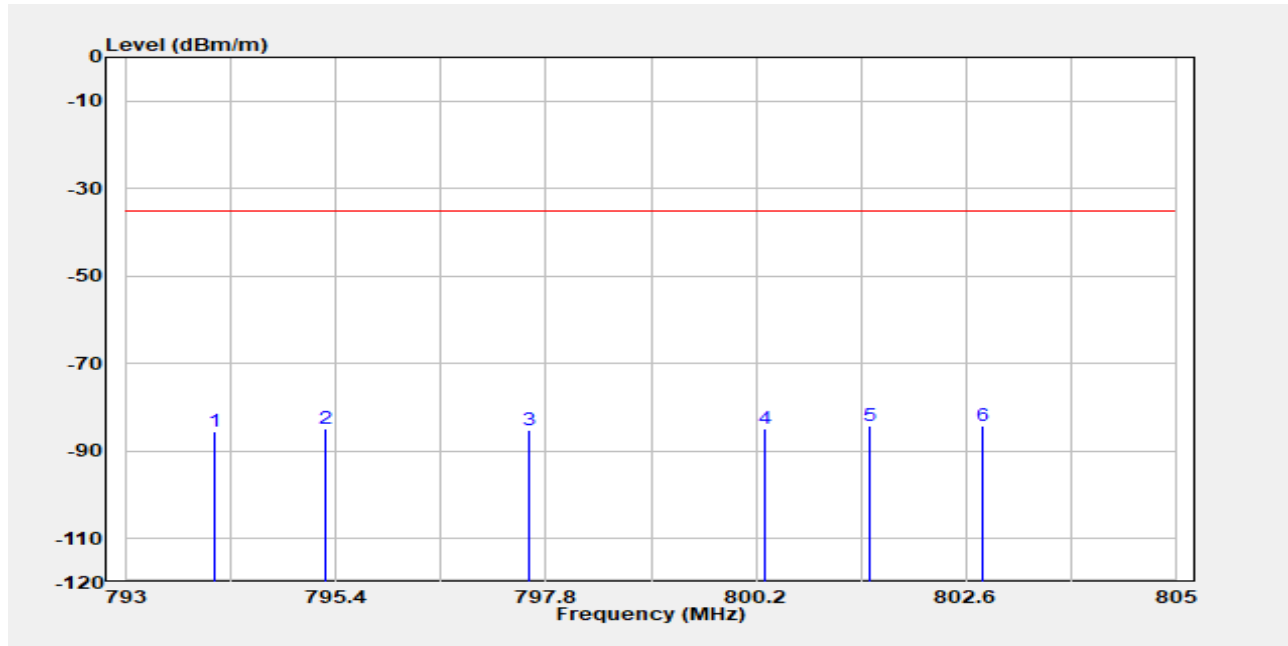
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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B13
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :782 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



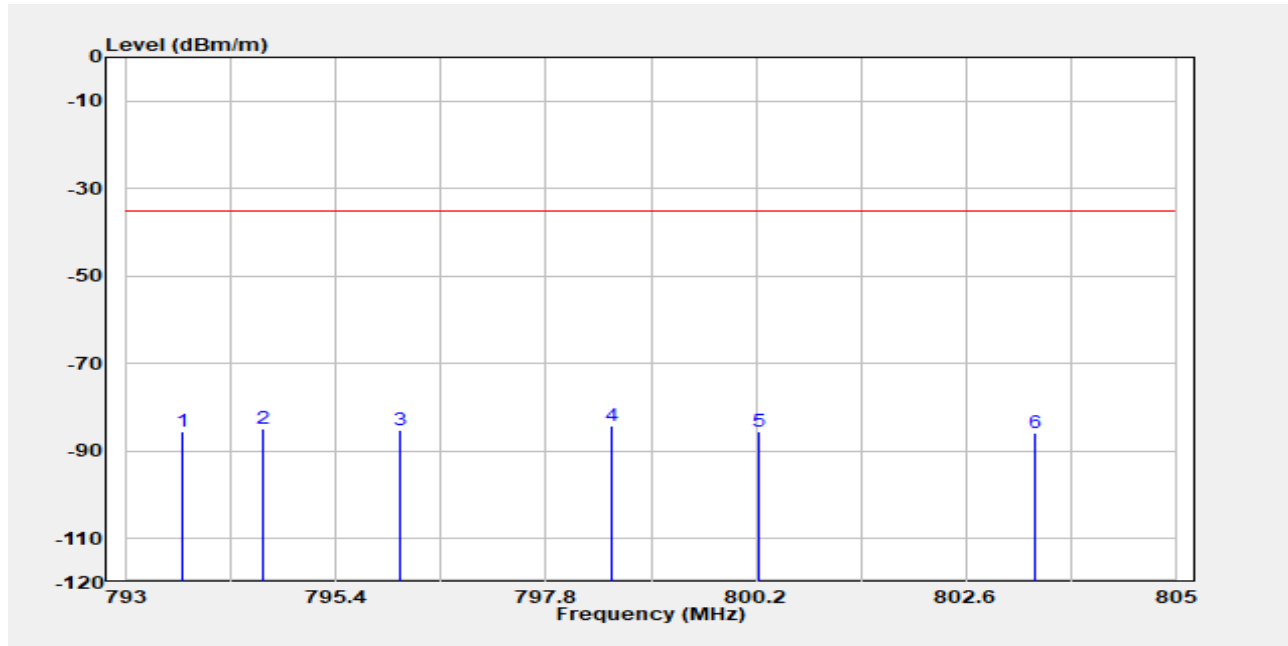
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
793.996	-85.68	-83.97	3.42	-5.13	-35.00	-50.68
795.280	-84.75	-83.01	3.39	-5.13	-35.00	-49.75
797.608	-85.34	-83.56	3.36	-5.14	-35.00	-50.34
800.296	-84.86	-83.04	3.34	-5.15	-35.00	-49.86
801.496	-84.13	-82.30	3.33	-5.15	-35.00	-49.13
802.804	-84.11	-82.27	3.32	-5.16	-35.00	-49.11

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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B13
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :782 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Horizontal
Engineer :Cooper Hsu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	Margin dB
793.636	-85.51	-83.81	3.43	-5.12	-35.00	-50.51
794.560	-85.03	-83.31	3.40	-5.13	-35.00	-50.03
796.132	-85.21	-83.46	3.38	-5.13	-35.00	-50.21
798.544	-84.27	-82.48	3.35	-5.14	-35.00	-49.27
800.224	-85.52	-83.71	3.34	-5.15	-35.00	-50.52
803.392	-85.78	-83.94	3.31	-5.16	-35.00	-50.78

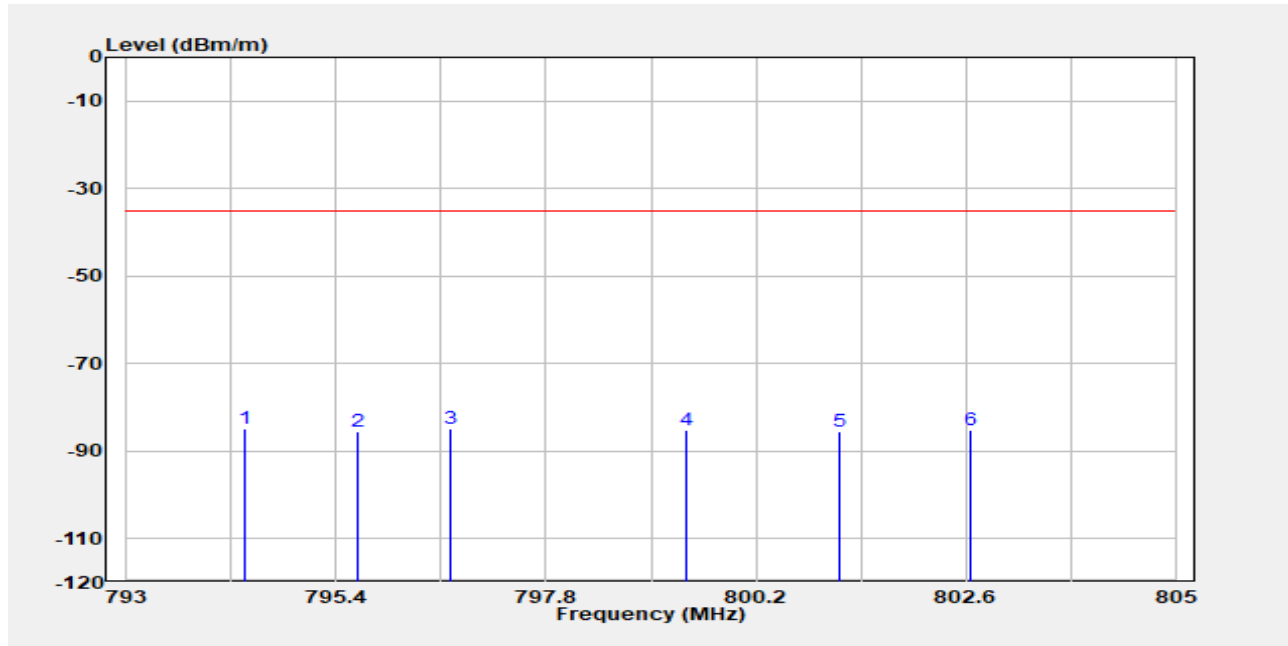
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Report Number :TERF2408002531ER
Operation Mode :CAT-M1 B13
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :784.5 MHz

Test Site :SAC 3
Test Date :2024-10-16
Temp./Humi. :24.3°C/63%
Antenna Pol. :Vertical
Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
794.356	-84.85	-83.13	3.41	-5.13	-35.00	-49.85
795.640	-85.38	-83.63	3.38	-5.13	-35.00	-50.38
796.708	-84.88	-83.12	3.37	-5.14	-35.00	-49.88
799.396	-85.28	-83.48	3.35	-5.15	-35.00	-50.28
801.148	-85.38	-83.56	3.33	-5.15	-35.00	-50.38
802.648	-85.23	-83.39	3.32	-5.16	-35.00	-50.23

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Report Number :TERF2408002531ER

Operation Mode :CAT-M1 B13

Test Mode :Tx

EUT Pol :H Plane

Test Frequency :784.5 MHz

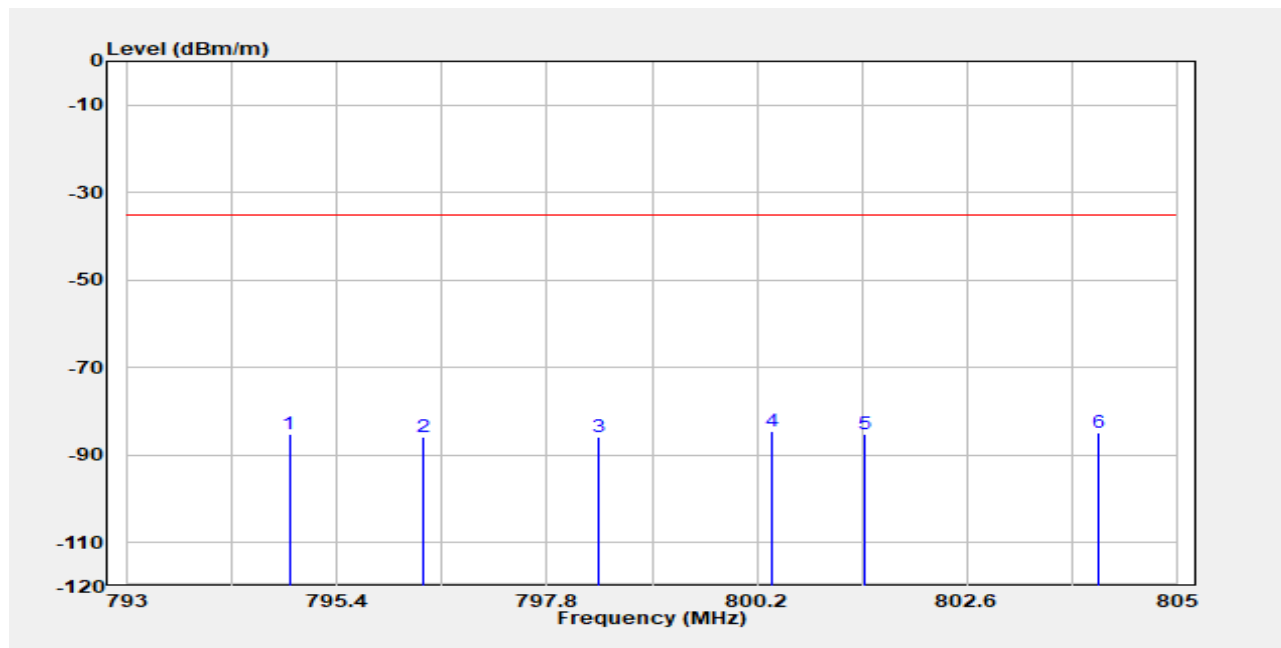
Test Site :SAC 3

Test Date :2024-10-16

Temp./Humi. :24.3°C/63%

Antenna
Pol. :Horizontal

Engineer :Cooper Hsu



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	@3m dBm	dB
794.848	-85.26	-83.53	3.39	-5.13	-35.00	-50.26
796.384	-85.76	-84.00	3.38	-5.14	-35.00	-50.76
798.388	-85.69	-83.91	3.36	-5.14	-35.00	-50.69
800.368	-84.42	-82.61	3.34	-5.15	-35.00	-49.42
801.424	-85.27	-83.45	3.33	-5.15	-35.00	-50.27
804.100	-84.90	-83.04	3.31	-5.16	-35.00	-49.90

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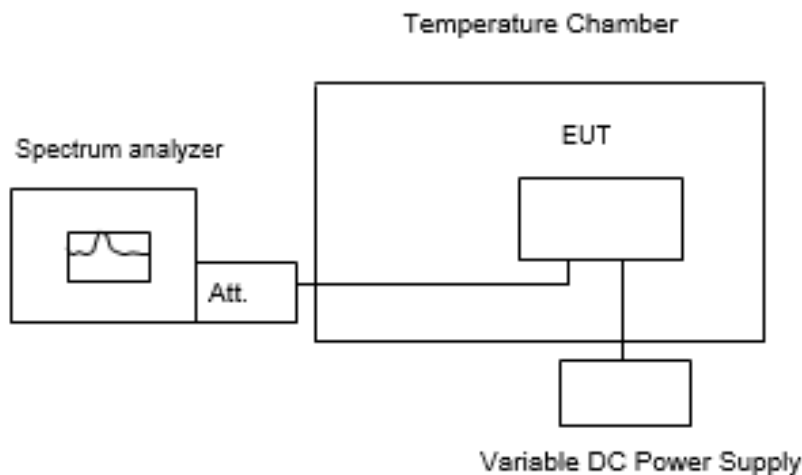
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11 FREQUENCY STABILITY MEASUREMENT

11.1 Standard Applicable

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

11.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

11.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

11.4 Measurement Result

Note: DC Power Supply is rated 3.6V dc.

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Reference Freq.:		CAT-M1 B2 Mid Channel		1880.0000	MHz 10M QPSK CH 18900
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
4.6	20	1879.999983	-0.0093	+/- 2.5 ppm	
3.6	20	1879.999993	-0.0036		
2.5	20	1880.000000	-0.0002		
1.9 (End Point)	20	1880.000004	0.0019		
Freq. ERROR vs. Temp.					
3.6	-30	1879.999983	-0.0091	+/- 2.5 ppm	
3.6	-20	1880.000006	0.0033		
3.6	-10	1879.999980	-0.0106		
3.6	0	1880.000020	0.0105		
3.6	10	1880.000018	0.0093		
3.6	20	1880.000013	0.0069		
3.6	30	1880.000004	0.0024		
3.6	40	1880.000007	0.0037		
3.6	50	1880.000002	0.0011		

Reference Freq.:		CAT-M1 B4 Mid Channel		1732.5000	MHz 10M QPSK CH 20175
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
4.6	20	1732.499987	-0.0074	+/- 2.5 ppm	
3.6	20	1732.500015	0.0086		
2.5	20	1732.499990	-0.0055		
1.9 (End Point)	20	1732.500013	0.0076		
Freq. ERROR vs. Temp.					
3.6	-30	1732.499981	-0.0112	+/- 2.5 ppm	
3.6	-20	1732.499987	-0.0073		
3.6	-10	1732.499987	-0.0074		
3.6	0	1732.499988	-0.0071		
3.6	10	1732.499992	-0.0048		
3.6	20	1732.499983	-0.0099		
3.6	30	1732.500007	0.0042		
3.6	40	1732.500015	0.0084		
3.6	50	1732.499989	-0.0064		

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Reference Freq.:		CAT-M1 B5 Mid Channel		836.5000	MHz 10M QPSK CH 20525
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
4.6	20	836.499986	-0.0167	+/- 2.5 ppm	
3.6	20	836.500017	0.0203		
2.5	20	836.499990	-0.0121		
1.9 (End Point)	20	836.500002	0.0025		
Freq. ERROR vs. Temp.					
3.6	-30	836.500000	0.0005	+/- 2.5 ppm	
3.6	-20	836.500018	0.0218		
3.6	-10	836.499986	-0.0171		
3.6	0	836.500018	0.0211		
3.6	10	836.500011	0.0134		
3.6	20	836.499987	-0.0156		
3.6	30	836.499999	-0.0014		
3.6	40	836.499993	-0.0087		
3.6	50	836.500016	0.0188		
Reference Freq.:		CAT-M1 B12 Mid Channel		707.5000	MHz 10M QPSK CH 23095
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
4.6	20	707.500015	0.0210	+/- 2.5 ppm	
3.6	20	707.500005	0.0074		
2.5	20	707.499998	-0.0034		
1.9 (End Point)	20	707.499999	-0.0020		
Freq. ERROR vs. Temp.					
3.6	-30	707.499982	-0.0260	+/- 2.5 ppm	
3.6	-20	707.499983	-0.0245		
3.6	-10	707.500009	0.0127		
3.6	0	707.499982	-0.0260		
3.6	10	707.499994	-0.0085		
3.6	20	707.499998	-0.0034		
3.6	30	707.500014	0.0198		
3.6	40	707.500015	0.0216		
3.6	50	707.500017	0.0241		

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Reference Freq.:		CAT-M1 B13 Mid Channel		782.0000	MHz	10M QPSK CH 23230
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit		
Freq. ERROR vs. VOLTAGE						
4.6	20	781.999990	-0.0132	+/- 2.5 ppm		
3.6	20	782.000005	0.0060			
2.5	20	781.999992	-0.0107			
1.9 (End Point)	20	782.000018	0.0228			
Freq. ERROR vs. Temp.						
3.6	-30	782.000019	0.0237	+/- 2.5 ppm		
3.6	-20	782.000010	0.0124			
3.6	-10	782.000007	0.0091			
3.6	0	782.000002	0.0023			
3.6	10	782.000000	-0.0004			
3.6	20	781.999994	-0.0072			
3.6	30	781.999994	-0.0081			
3.6	40	781.999987	-0.0170			
3.6	50	782.000015	0.0196			

Reference Freq.:		CAT-M1 B25 Mid Channel		1882.5000	MHz	10M QPSK CH 26365
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit		
Freq. ERROR vs. VOLTAGE						
4.6	20	1882.499981	-0.0102	+/- 2.5 ppm		
3.6	20	1882.500003	0.0015			
2.5	20	1882.499995	-0.0027			
1.9 (End Point)	20	1882.500010	0.0054			
Freq. ERROR vs. Temp.						
3.6	-30	1882.499992	-0.0045	+/- 2.5 ppm		
3.6	-20	1882.500000	0.0002			
3.6	-10	1882.499990	-0.0051			
3.6	0	1882.500014	0.0072			
3.6	10	1882.499989	-0.0057			
3.6	20	1882.500010	0.0053			
3.6	30	1882.499995	-0.0025			
3.6	40	1882.500001	0.0008			
3.6	50	1882.499999	-0.0003			

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Reference Freq.:		Part 90 CAT-M1 B26 Mid Channel		819.0000	MHz 10M QPSK CH 26740
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE (LTE B26 for Part 90S)					
4.6	20	819.000017	0.0203	+/- 2.5 ppm	
3.6	20	818.999997	-0.0036		
2.5	20	819.000004	0.0047		
1.9 (End Point)	20	818.999986	-0.0168		
Freq. ERROR vs. Temp.					
3.6	-30	819.000010	0.0119	+/- 2.5 ppm	
3.6	-20	818.999984	-0.0201		
3.6	-10	819.000006	0.0068		
3.6	0	819.000012	0.0152		
3.6	10	818.999980	-0.0243		
3.6	20	818.999982	-0.0216		
3.6	30	819.000017	0.0208		
3.6	40	819.000017	0.0210		
3.6	50	818.999984	-0.0193		

Reference Freq.:		CAT-M1 B26 Mid Channel		836.5000	MHz 10M QPSK CH 26915
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
4.6	20	836.500019	0.0226	+/- 2.5 ppm	
3.6	20	836.499995	-0.0061		
2.5	20	836.500001	0.0018		
1.9 (End Point)	20	836.499986	-0.0162		
Freq. ERROR vs. Temp.					
3.6	-30	836.499992	-0.0094	+/- 2.5 ppm	
3.6	-20	836.499996	-0.0046		
3.6	-10	836.500017	0.0200		
3.6	0	836.499984	-0.0188		
3.6	10	836.500008	0.0099		
3.6	20	836.499998	-0.0028		
3.6	30	836.499998	-0.0024		
3.6	40	836.500005	0.0063		
3.6	50	836.500004	0.0054		

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Reference Freq.:		CAT-M1 B66 Mid Channel		1745.0000	MHz 10M QPSK CH 132322
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit	
Freq. ERROR vs. VOLTAGE					
4.6	20	1744.999997	-0.0019	+/- 2.5 ppm	
3.6	20	1745.000000	-0.0001		
2.5	20	1744.999993	-0.0039		
1.9 (End Point)	20	1745.000019	0.0106		
Freq. ERROR vs. Temp.					
3.6	-30	1744.999991	-0.0051	+/- 2.5 ppm	
3.6	-20	1744.999994	-0.0036		
3.6	-10	1744.999998	-0.0010		
3.6	0	1745.000003	0.0015		
3.6	10	1744.999985	-0.0088		
3.6	20	1745.000000	0.0001		
3.6	30	1745.000000	-0.0002		
3.6	40	1744.999986	-0.0081		
3.6	50	1744.999982	-0.0105		

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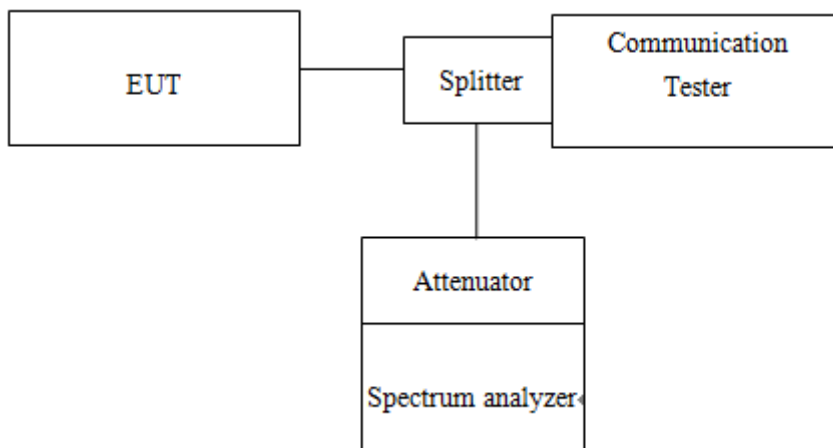
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12 PEAK TO AVERAGE RATIO

12.1 Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

12.2 Test SET-UP



12.3 Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth; & internal = 1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

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12.4 Measurement Result

CAT-M1 BAND 2									
Channel bandwidth: 1.4MHz					Channel bandwidth: 3MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1850.7	18607	5.76	11.10	13	1851.5	18615	5.75	6.46	13
1880.0	18900	5.68	6.56	13	1880.0	18900	5.6	6.12	13
1909.3	19193	10	9.09	13	1908.5	19185	11.43	6.55	13

CAT-M1 BAND 2									
Channel bandwidth: 5MHz					Channel bandwidth: 10MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1852.5	18625	5.83	6.66	13	1855.0	18650	5.67	6.04	13
1880.0	18900	11.5	6.07	13	1880.0	18900	5.93	6.46	13
1907.5	19175	5.88	6.55	13	1905.0	19150	5.88	6.07	13

CAT-M1 BAND 2									
Channel bandwidth: 15MHz					Channel bandwidth: 20MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1857.5	18675	10.24	6.21	13	1860.0	18700	5.72	6.20	13
1880.0	18900	5.78	6.06	13	1880.0	18900	7.74	6.03	13
1902.5	19125	8.74	10.83	13	1900.0	19100	5.57	5.63	13

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CAT-M1 BAND 4									
Channel bandwidth: 1.4MHz					Channel bandwidth: 3MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1710.7	19957	5.6	7.01	13	1711.5	19965	7.18	6.81	13
1732.5	20175	11.59	6.50	13	1732.5	20175	5.98	8.07	13
1754.3	20393	5.58	6.88	13	1753.5	20385	5.52	6.16	13

CAT-M1 BAND 4									
Channel bandwidth: 5MHz					Channel bandwidth: 10MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1712.5	19975	5.68	8.27	13	1715.0	20000	5.66	8.64	13
1732.5	20175	5.66	6.84	13	1732.5	20175	5.64	6.50	13
1752.5	20375	5.73	6.44	13	1750.0	20350	6.78	6.61	13

CAT-M1 BAND 4									
Channel bandwidth: 15MHz					Channel bandwidth: 20MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1717.5	20025	5.65	11.09	13	1720.0	20050	5.79	6.25	13
1732.5	20175	5.51	7.14	13	1732.5	20175	5.74	6.22	13
1747.5	20325	7.52	6.08	13	1745.0	20300	6.66	6.17	13

CAT-M1 BAND 5									
Channel bandwidth: 1.4MHz					Channel bandwidth: 3MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
824.7	20407	5.58	6.43	13	825.5	20415	5.43	10.48	13
836.5	20525	5.87	6.13	13	836.5	20525	5.95	6.45	13
848.3	20643	5.72	6.48	13	847.5	20635	7.03	10.14	13

CAT-M1 BAND 5									
Channel bandwidth: 5MHz					Channel bandwidth: 10MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
826.5	20425	5.84	6.39	13	829.0	20450	5.99	12.46	13
836.5	20525	5.82	6.65	13	836.5	20525	7.66	5.97	13
846.5	20625	5.98	6.13	13	844.0	20600	8.78	8.35	13

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CAT-M1 BAND 12									
Channel bandwidth: 1.4MHz					Channel bandwidth: 3MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
699.7	23017	5.42	6.82	13	700.5	23025	5.53	6.56	13
707.5	23095	8.59	6.51	13	707.5	23095	5.51	6.99	13
715.3	23173	5.98	8.29	13	714.5	23165	5.48	6.39	13

CAT-M1 BAND 12									
Channel bandwidth: 5MHz					Channel bandwidth: 10MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
701.5	23035	5.8	5.95	13	704.0	23060	6.03	6.62	13
707.5	23095	5.6	6.57	13	707.5	23095	7.67	6.65	13
713.5	23155	7.4	7.08	13	711.0	23130	5.52	6.56	13

CAT-M1 BAND 13									
Channel bandwidth: 5MHz					Channel bandwidth: 10MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
779.5	23205	5.74	6.83	13	782.0	23230	5.73	5.92	13
782.0	23230	9.88	11.22	13					
784.5	23255	5.7	6.69	13					

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CAT-M1 BAND 25									
Channel bandwidth: 1.4MHz					Channel bandwidth: 3MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1850.7	26047	5.7	6.54	13	1851.5	26055	6.2	7.78	13
1882.5	26365	5.49	6.55	13	1882.5	26365	6.05	6.44	13
1914.3	26683	5.99	7.31	13	1913.5	26675	12.9	7.16	13

CAT-M1 BAND 25									
Channel bandwidth: 5MHz					Channel bandwidth: 10MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1852.5	26065	6	6.48	13	1855.0	26090	6.1	6.21	13
1882.5	26365	5.78	6.16	13	1882.5	26365	5.79	6.08	13
1912.5	26665	5.84	6.78	13	1910.0	26640	5.71	6.61	13

CAT-M1 BAND 25									
Channel bandwidth: 15MHz					Channel bandwidth: 20MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1857.5	26115	5.76	6.32	13	1860.0	26140	7.5	6.13	13
1882.5	26365	7.07	5.81	13	1882.5	26365	5.6	6.84	13
1907.5	26615	5.6	6.37	13	1905.0	26590	5.45	6.42	13

CAT-M1 BAND 26 for part 90S									
Channel bandwidth: 1.4MHz					Channel bandwidth: 3MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
814.7	26697	5.64	6.53	13	815.5	26705	5.45	6.50	13
819.0	26740	5.6	6.43	13	819	26740	5.47	6.82	13
823.3	26783	7.54	6.63	13	822.5	26775	5.52	6.91	13

CAT-M1 BAND 26 for part 90S									
Channel bandwidth: 5MHz					Channel bandwidth: 10MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
816.5	26715	7.22	5.99	13	819.0	26740	7.86	6.50	13
819.0	26740	5.68	8.24	13					
821.5	26765	12.77	6.60	13					

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CAT-M1 BAND 26									
Channel bandwidth: 1.4MHz					Channel bandwidth: 3MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
824.7	26797	5.65	11.87	13	825.5	26805	5.41	6.50	13
836.5	26915	5.7	8.12	13	836.5	26915	6.57	8.26	13
848.3	27033	6.03	6.45	13	847.5	27025	7.29	7.04	13

CAT-M1 BAND 26									
Channel bandwidth: 5MHz					Channel bandwidth: 10MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
826.5	26815	9.88	6.48	13	829.0	26840	5.84	6.86	13
836.5	26915	9.97	6.94	13	836.5	26915	5.8	6.79	13
846.5	27015	5.8	6.79	13	844.0	26990	5.69	6.97	13

CAT-M1 BAND 26									
Channel bandwidth: 15MHz									
Freq. (MHz)	CH	PAPR (dB)							
		QPSK	16QAM	Limit					
831.5	26865	5.53	6.46	13					
836.5	26915	5.6	7.78	13					
841.5	26965	5.62	5.76	13					

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CAT-M1 BAND 66									
Channel bandwidth: 1.4MHz					Channel bandwidth: 3MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1710.7	131979	5.9	6.42	13	1711.5	131987	5.6	8.85	13
1745.0	132322	8.01	6.51	13	1745.0	132322	6.01	6.76	13
1779.3	132665	7.3	6.47	13	1778.5	132657	10.07	10.33	13

CAT-M1 BAND 66									
Channel bandwidth: 5MHz					Channel bandwidth: 10MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1712.5	131997	5.69	5.96	13	1715.0	132022	5.73	6.58	13
1745.0	132322	5.57	10.62	13	1745.0	132322	5.85	6.94	13
1777.5	132647	6.55	9.23	13	1775.0	132622	5.86	10.84	13

CAT-M1 BAND 66									
Channel bandwidth: 15MHz					Channel bandwidth: 20MHz				
Freq. (MHz)	CH	PAPR (dB)			Freq. (MHz)	CH	PAPR (dB)		
		QPSK	16QAM	Limit			QPSK	16QAM	Limit
1717.5	132047	6.74	6.35	13	1720.0	132072	5.6	6.09	13
1745.0	132322	5.61	6.18	13	1745.0	132322	5.66	11.60	13
1772.5	132597	5.59	5.99	13	1770.0	132572	5.52	6.10	13

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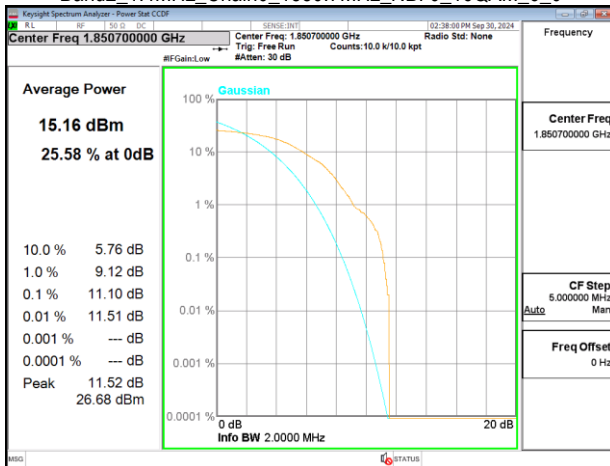
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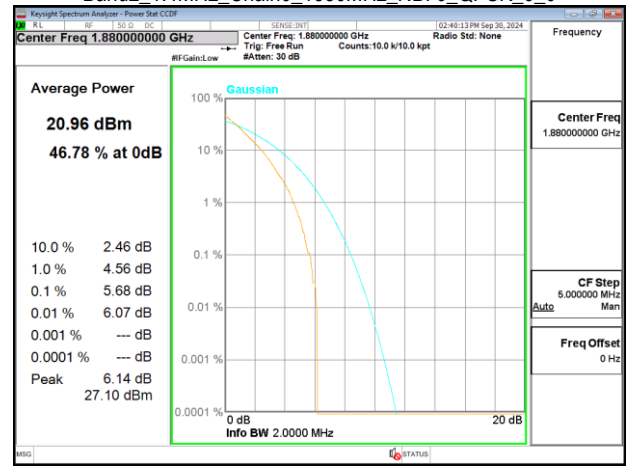
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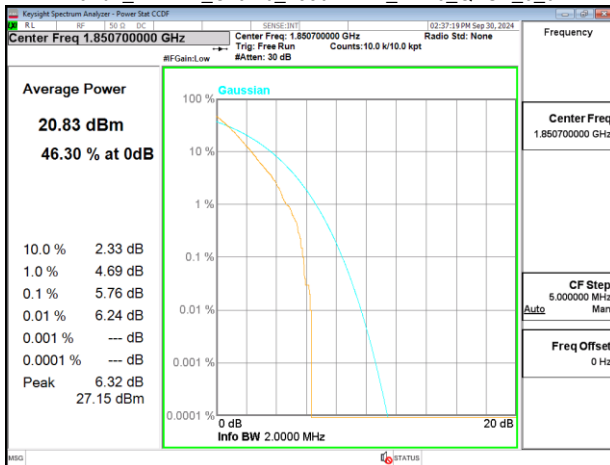
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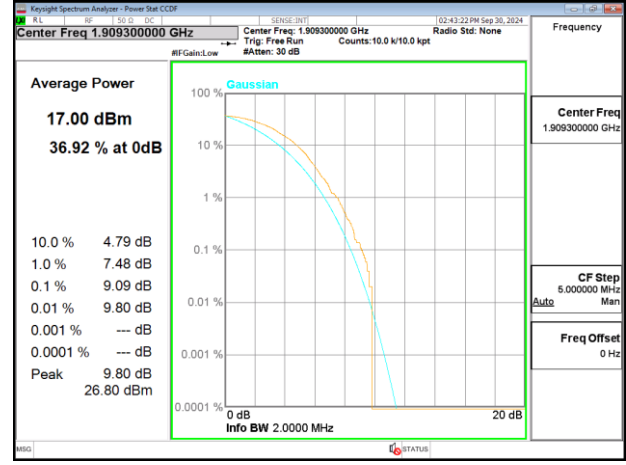
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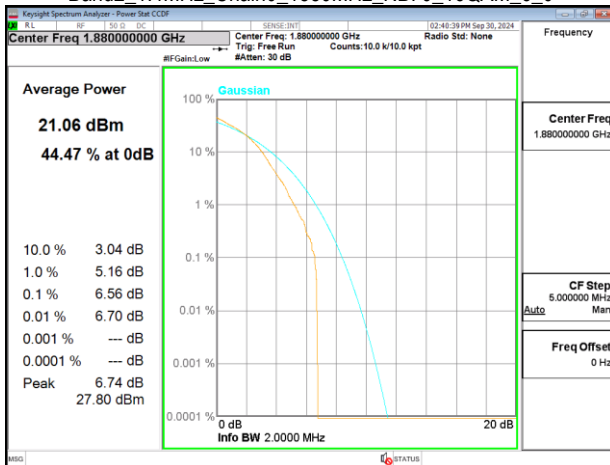
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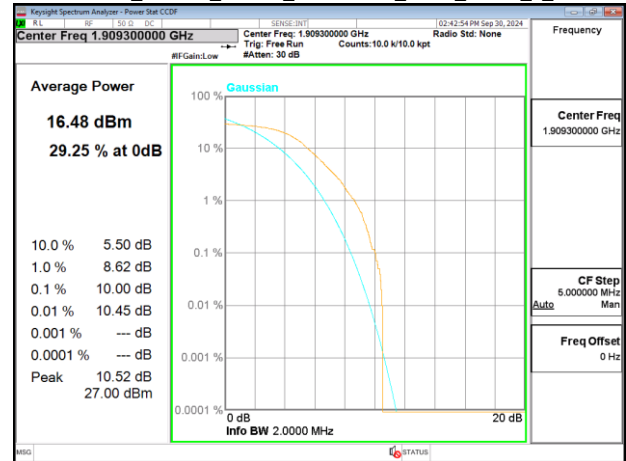
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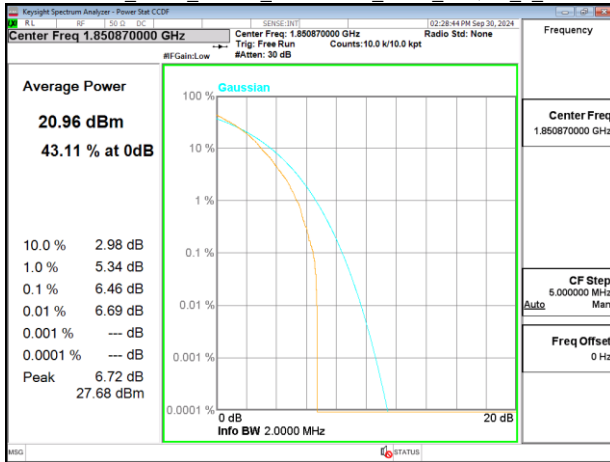


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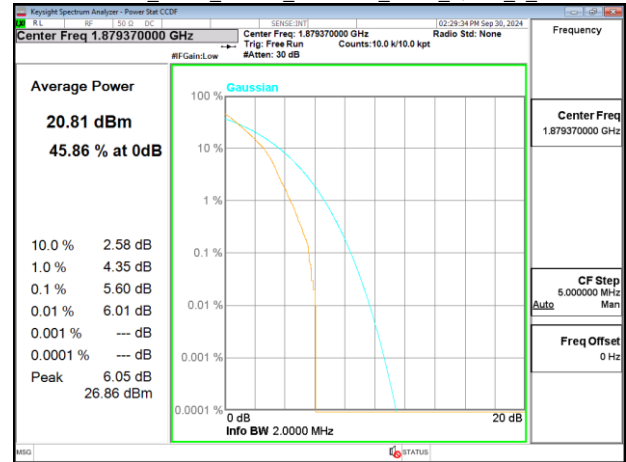
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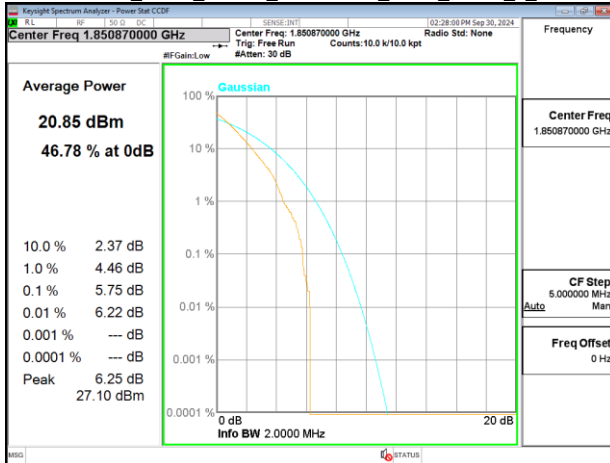
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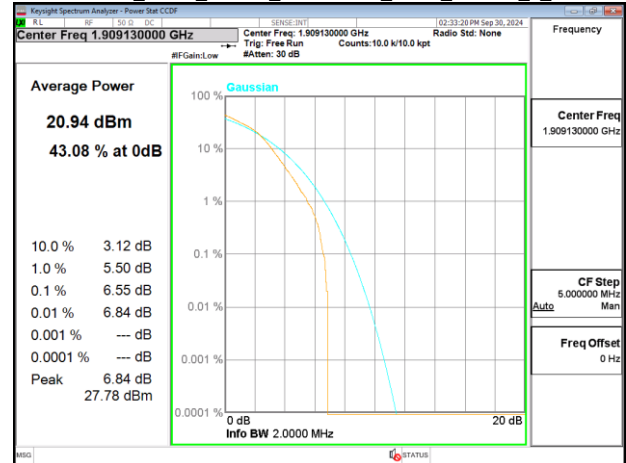
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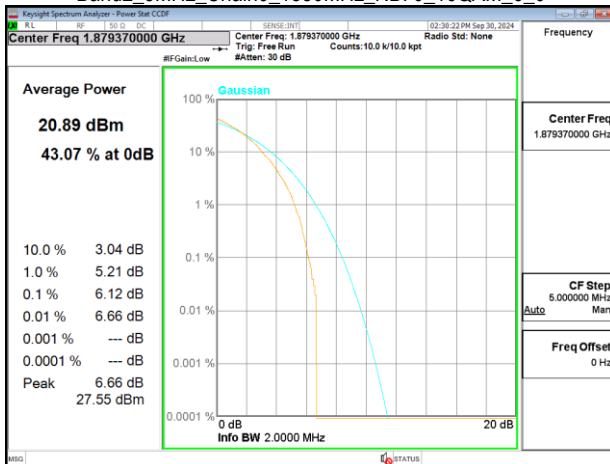
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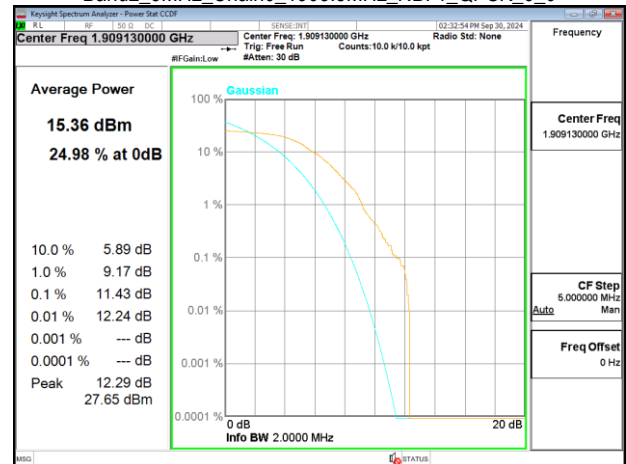
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Band2_3MHz_Chain0_1908.5MHz_NBI 1_QPSK_6_0



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