

Page: 96 of 127



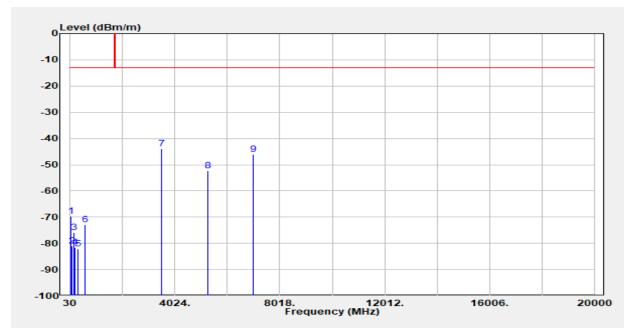
Report Number :TERF2209001659ER Test Site :SAC 3

Operation Mode :CAT-M1 B4 Test Date :2022-09-19

Test Mode :Tx Temp./Humi. :24.6/67

EUT Pol :H Plane Antenna Pol. :Vertical

Test Frequency :1753.5 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
		04.0=	,		40.00	
63.950	-69.77	-61.27	-7.71	-0.79	-13.00	-56.77
101.780	-81.13	-71.77	-8.33	-1.03	-13.00	-68.13
156.100	-76.00	-70.53	-4.24	-1.23	-13.00	-63.00
213.330	-81.58	-78.96	-1.11	-1.50	-13.00	-68.58
321.970	-82.09	-79.14	-1.21	-1.75	-13.00	-69.09
605.210	-72.79	-69.46	-0.69	-2.64	-13.00	-59.79
3507.000	-43.99	-50.15	12.57	-6.41	-13.00	-30.99
5260.500	-52.29	-57.31	13.12	-8.10	-13.00	-39.29
7014.000	-45.97	-47.49	10.97	-9.45	-13.00	-32.97

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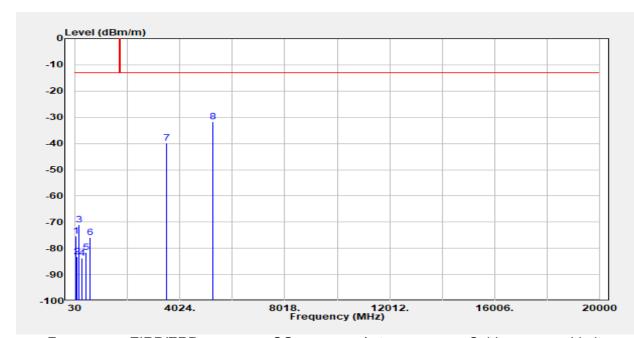
Report Number Test Site :SAC 3 :TERF2209001659ER

**Operation Mode** :CAT-M1 B4 **Test Date** :2022-09-19

Test Mode :Tx Temp./Humi. :24.6/67

**EUT Pol** :H Plane Antenna Pol. :Horizontal

:1753.5 MHz **Test Frequency** Engineer :Nick Lin



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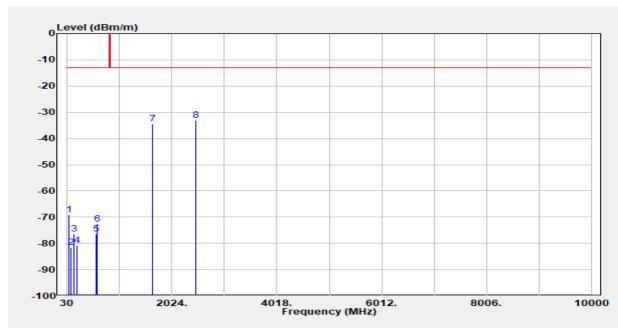
Report Number :TERF2209001659ER Test Site :SAC 3

Operation Mode :CAT-M1 B5 Test Date :2022-09-19

Test Mode :Tx Temp./Humi. :24.6/67

EUT Pol :H Plane Antenna Pol. :Vertical

Test Frequency :825.5 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
00.050	22.11	00.04			40.00	<b>-</b> 0.44
63.950	-69.11	-60.61	-7.71	-0.79	-13.00	-56.11
103.720	-81.52	-72.20	-8.28	-1.04	-13.00	-68.52
156.100	-76.42	-70.96	-4.24	-1.23	-13.00	-63.42
212.360	-80.84	-78.14	-1.19	-1.50	-13.00	-67.84
572.230	-76.47	-72.98	-0.78	-2.71	-13.00	-63.47
605.210	-72.52	-69.19	-0.69	-2.64	-13.00	-59.52
1651.000	-34.36	-39.89	9.90	-4.37	-13.00	-21.36
2476.500	-33.18	-38.37	10.61	-5.41	-13.00	-20.18

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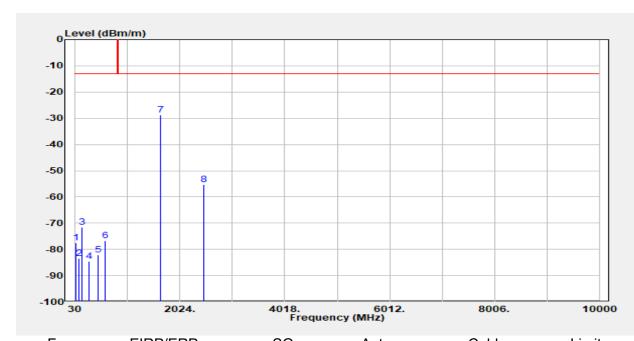
Report Number :TERF2209001659ER Test Site :SAC 3

Operation Mode :CAT-M1 B5 Test Date :2022-09-19

Test Mode :Tx Temp./Humi. :24.6/67

EUT Pol :H Plane Antenna Pol. :Horizontal

Test Frequency :825.5 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
47.460	-77.51	-62.81	-14.02	-0.69	-13.00	-64.51
94.990	-83.54	-74.67	-7.87	-1.00	-13.00	-70.54
158.040	-71.42	-66.13	-4.05	-1.25	-13.00	-58.42
289.960	-84.65	-81.40	-1.48	-1.77	-13.00	-71.65
467.470	-82.03	-78.62	-1.03	-2.37	-13.00	-69.03
605.210	-76.58	-73.25	-0.69	-2.64	-13.00	-63.58
1651.000	-28.81	-34.34	9.90	-4.37	-13.00	-15.81
2476.500	-55.34	-60.53	10.61	-5.41	-13.00	-42.34

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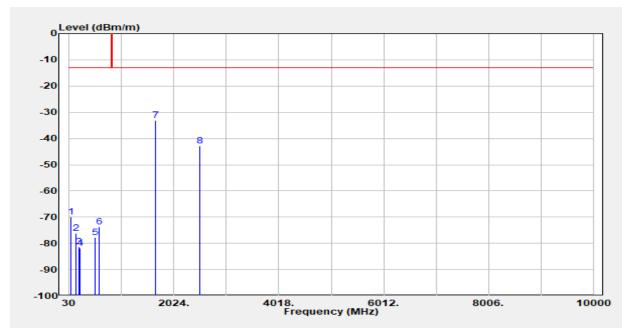
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Report Number :TERF2209001659ER Test Site :SAC 3

Operation Mode :CAT-M1 B5 Test Date :2022-09-19

Test Mode :Tx Temp./Humi. :24.6/67

EUT Pol :H Plane Antenna Pol. :Vertical
Test Frequency :836.5 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	<sup>'</sup> dBm	dBi/dBd	dB	dBm	dB
65.890	-70.03	-61.87	-7.35	-0.81	-13.00	-57.03
156.100	-76.18	-70.72	-4.24	-1.23	-13.00	-63.18
212.360	-81.32	-78.62	-1.19	-1.50	-13.00	-68.32
240.490	-81.84	-78.35	-1.84	-1.65	-13.00	-68.84
523.730	-77.86	-74.80	-0.84	-2.21	-13.00	-64.86
605.210	-73.71	-70.39	-0.69	-2.64	-13.00	-60.71
1673.000	-32.96	-38.50	9.95	-4.40	-13.00	-19.96
2509.500	-42.69	-47.96	10.74	-5.46	-13.00	-29.69

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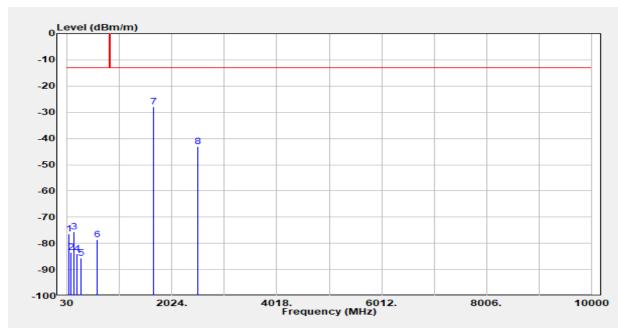
Report Number :TERF2209001659ER Test Site :SAC 3

Operation Mode :CAT-M1 B5 Test Date :2022-09-19

Test Mode :Tx Temp./Humi. :24.6/67

EUT Pol :H Plane Antenna Pol. :Horizontal

Test Frequency :836.5 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
00.050	<b>=</b> 0.40				40.00	22.42
63.950	-76.40	-67.90	-7.71	-0.79	-13.00	-63.40
93.050	-83.56	-74.91	-7.66	-0.99	-13.00	-70.56
157.070	-75.49	-70.24	-4.01	-1.24	-13.00	-62.49
213.330	-84.14	-81.53	-1.11	-1.50	-13.00	-71.14
293.840	-85.76	-82.52	-1.44	-1.80	-13.00	-72.76
605.210	-78.46	-75.13	-0.69	-2.64	-13.00	-65.46
1673.000	-27.88	-33.43	9.95	-4.40	-13.00	-14.88
2509.500	-43.03	-48.31	10.74	-5.46	-13.00	-30.03

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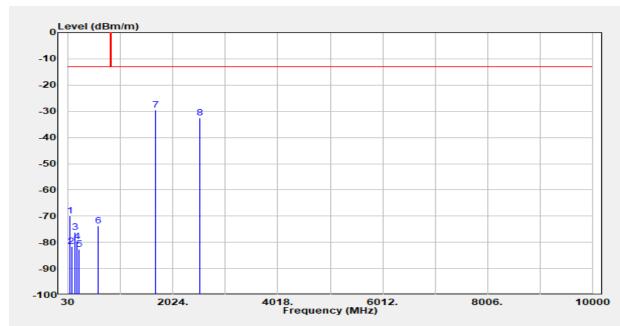


Report Number :TERF2209001659ER Test Site :SAC 3

Operation Mode :CAT-M1 B5 Test Date :2022-09-19

Test Mode :Tx Temp./Humi. :24.6/67

EUT Pol :H Plane Antenna Pol. :Vertical
Test Frequency :847.5 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
63.950	-69.79	-61.30	-7.71	-0.79	-13.00	-56.79
90.140	-81.62	-73.39	-7.24	-0.98	-13.00	-68.62
151.250	-76.22	-70.31	-4.73	-1.17	-13.00	-63.22
188.110	-79.58	-76.70	-1.44	-1.44	-13.00	-66.58
239.520	-82.55	-79.10	-1.80	-1.64	-13.00	-69.55
605.210	-73.61	-70.28	-0.69	-2.64	-13.00	-60.61
1695.000	-29.55	-35.11	9.99	-4.43	-13.00	-16.55
2542.500	-32.50	-37.89	10.87	-5.48	-13.00	-19.50

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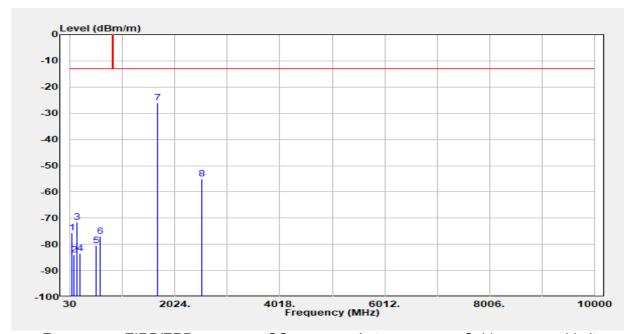
Report Number :TERF2209001659ER Test Site :SAC 3

Operation Mode :CAT-M1 B5 Test Date :2022-09-19

Test Mode :Tx Temp./Humi. :24.6/67

EUT Pol :H Plane Antenna Pol. :Horizontal

Test Frequency :847.5 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
64.920	-75.65	-67.36	-7.49	-0.80	-13.00	-62.65
94.990	-84.09	-75.22	-7.87	-1.00	-13.00	-71.09
148.340	-71.58	-65.36	-5.03	-1.19	-13.00	-58.58
210.420	-83.49	-80.64	-1.35	-1.50	-13.00	-70.49
529.550	-80.57	-77.66	-0.84	-2.07	-13.00	-67.57
605.210	-76.84	-73.52	-0.69	-2.64	-13.00	-63.84
1695.000	-25.98	-31.54	9.99	-4.43	-13.00	-12.98
2542.500	-55.00	-60.39	10.87	-5.48	-13.00	-42.00

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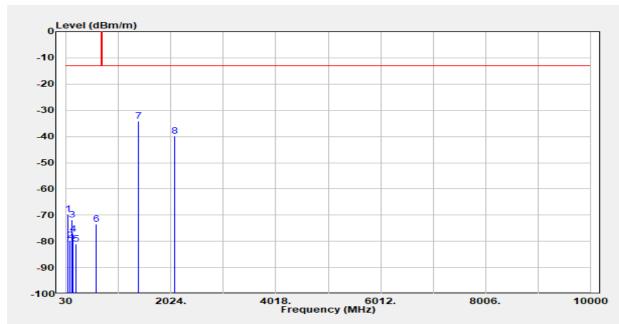


Report Number Test Site :SAC 3 :TERF2209001659ER

**Operation Mode** :CAT-M1 B12 **Test Date** :2022-09-19

Test Mode :Tx Temp./Humi. :24.6/67

**EUT Pol** :H Plane Antenna Pol. :Vertical :700.5 MHz **Test Frequency** Engineer :Nick Lin



Freq.	EIRP/ERP	SG Output Lovel	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
64.920	-69.57	-61.28	-7.49	-0.80	-13.00	-56.57
103.720	-79.79	-70.47	-8.28	-1.04	-13.00	-66.79
141.550	-71.74	-64.73	-5.71	-1.30	-13.00	-58.74
165.800	-77.24	-72.74	-3.22	-1.29	-13.00	-64.24
211.390	-81.12	-78.35	-1.27	-1.50	-13.00	-68.12
605.210	-73.45	-70.12	-0.69	-2.64	-13.00	-60.45
1401.000	-34.18	-38.07	7.91	-4.02	-13.00	-21.18
2101.500	-39.85	-44.84	9.88	-4.89	-13.00	-26.85

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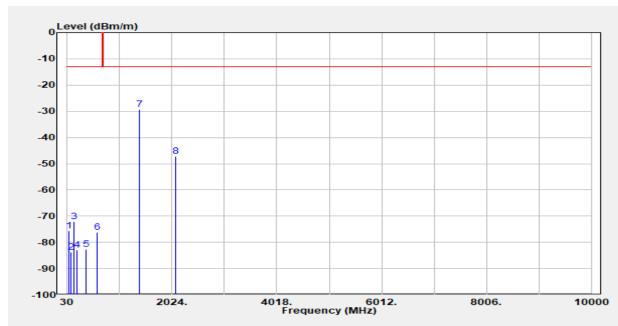
Report Number :TERF2209001659ER Test Site :SAC 3

Operation Mode :CAT-M1 B12 Test Date :2022-09-19

Test Mode :Tx Temp./Humi. :24.6/67

EUT Pol :H Plane Antenna Pol. :Horizontal

Test Frequency :700.5 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG Output Level	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
64.920	-75.59	-67.30	-7.49	-0.80	-13.00	-62.59
92.080	-83.75	-75.30	-7.47	-0.99	-13.00	-70.75
156.100	-72.09	-66.62	-4.24	-1.23	-13.00	-59.09
206.540	-82.90	-79.88	-1.53	-1.49	-13.00	-69.90
385.020	-82.73	-79.46	-1.22	-2.06	-13.00	-69.73
605.210	-76.18	-72.85	-0.69	-2.64	-13.00	-63.18
1401.000	-29.14	-33.03	7.91	-4.02	-13.00	-16.14
2101.500	-47.05	-52.04	9.88	-4.89	-13.00	-34.05

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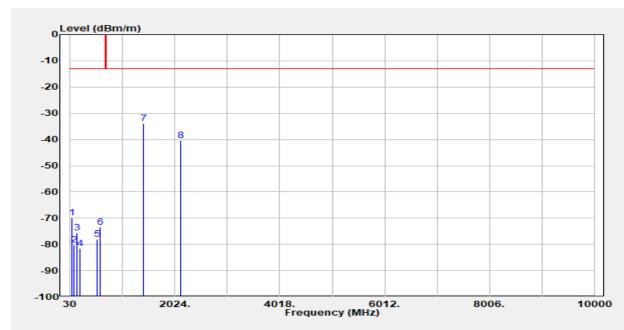
Report Number :TERF2209001659ER Test Site :SAC 3

Operation Mode :CAT-M1 B12 Test Date :2022-09-19

Test Mode :Tx Temp./Humi. :24.6/67

EUT Pol :H Plane Antenna Pol. :Vertical

Test Frequency :707.5 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	<sup>'</sup> dBm	dBi/dBd	dB	dBm	dB
63.950	-69.97	-61.47	-7.71	-0.79	-13.00	-56.97
103.720	-80.08	-70.76	-8.28	-1.04	-13.00	-67.08
156.100	-75.73	-70.27	-4.24	-1.23	-13.00	-62.73
212.360	-81.61	-78.91	-1.19	-1.50	-13.00	-68.61
537.310	-78.18	-74.90	-1.01	-2.27	-13.00	-65.18
605.210	-73.55	-70.22	-0.69	-2.64	-13.00	-60.55
1415.000	-33.85	-37.81	7.99	-4.03	-13.00	-20.85
2122.500	-40.29	-45.03	9.67	-4.93	-13.00	-27.29

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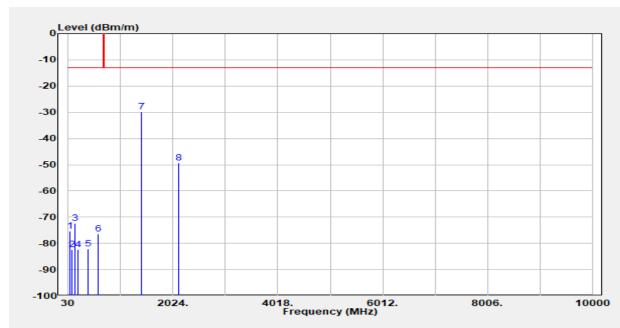
Report Number :TERF2209001659ER Test Site :SAC 3

Operation Mode :CAT-M1 B12 Test Date :2022-09-19

Test Mode :Tx Temp./Humi. :24.6/67

EUT Pol :H Plane Antenna Pol. :Horizontal

Test Frequency :707.5 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
04.000	75.40	07.47	7.40	0.00	40.00	00.40
64.920	-75.46	-67.17	-7.49	-0.80	-13.00	-62.46
94.020	-82.35	-73.59	-7.77	-1.00	-13.00	-69.35
155.130	-72.35	-66.82	-4.31	-1.22	-13.00	-59.35
212.360	-82.28	-79.58	-1.19	-1.50	-13.00	-69.28
399.570	-82.06	-78.29	-1.58	-2.19	-13.00	-69.06
605.210	-76.52	-73.20	-0.69	-2.64	-13.00	-63.52
1415.000	-29.91	-33.87	7.99	-4.03	-13.00	-16.91
2122.500	-49.28	-54.02	9.67	-4.93	-13.00	-36.28

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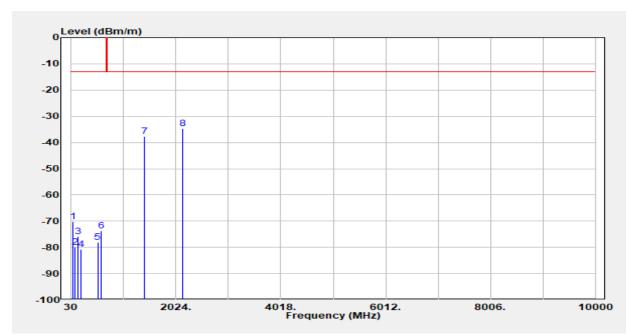
Report Number Test Site :SAC 3 :TERF2209001659ER

**Operation Mode** :CAT-M1 B12 **Test Date** :2022-09-19

Test Mode :Tx Temp./Humi. :24.6/67

**EUT Pol** :H Plane Antenna Pol. :Vertical

:714.5 MHz **Test Frequency** Engineer :Nick Lin



EIRP/ERP	SG	Antenna	Cable	Limit	Margin
	Output Level	Gain	Loss		_
dBm	dBm	dBi/dBd	dB	dBm	dB
-70.26	-61.97	-7.49	-0.80	-13.00	-57.26
-80.07	-70.75	-8.28	-1.04	-13.00	-67.07
-76.00	-70.53	-4.24	-1.23	-13.00	-63.00
-80.64	-77.87	-1.27	-1.50	-13.00	-67.64
-78.08	-75.15	-0.85	-2.08	-13.00	-65.08
-73.65	-70.33	-0.69	-2.64	-13.00	-60.65
-37.69	-41.71	8.08	-4.05	-13.00	-24.69
-34.58	-39.08	9.46	-4.97	-13.00	-21.58
	-70.26 -80.07 -76.00 -80.64 -78.08 -73.65 -37.69	Output Level dBm  -70.26	dBm         Output Level dBm         Gain dBi/dBd           -70.26         -61.97         -7.49           -80.07         -70.75         -8.28           -76.00         -70.53         -4.24           -80.64         -77.87         -1.27           -78.08         -75.15         -0.85           -73.65         -70.33         -0.69           -37.69         -41.71         8.08	dBm         Output Level dBm         Gain dBi/dBd         Loss dB           -70.26         -61.97         -7.49         -0.80           -80.07         -70.75         -8.28         -1.04           -76.00         -70.53         -4.24         -1.23           -80.64         -77.87         -1.27         -1.50           -78.08         -75.15         -0.85         -2.08           -73.65         -70.33         -0.69         -2.64           -37.69         -41.71         8.08         -4.05	dBm         Output Level dBm         Gain dBi/dBd         Loss dBm           -70.26         -61.97         -7.49         -0.80         -13.00           -80.07         -70.75         -8.28         -1.04         -13.00           -76.00         -70.53         -4.24         -1.23         -13.00           -80.64         -77.87         -1.27         -1.50         -13.00           -78.08         -75.15         -0.85         -2.08         -13.00           -73.65         -70.33         -0.69         -2.64         -13.00           -37.69         -41.71         8.08         -4.05         -13.00

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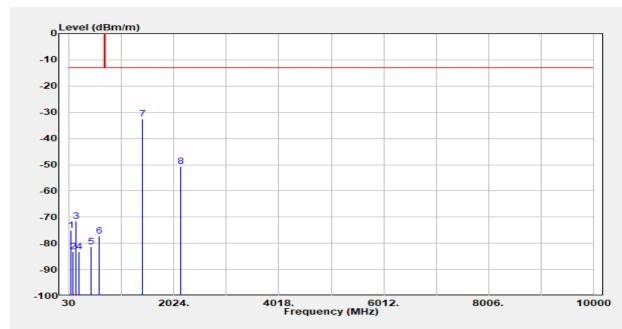
Report Number :TERF2209001659ER Test Site :SAC 3

Operation Mode :CAT-M1 B12 Test Date :2022-09-19

Test Mode :Tx Temp./Humi. :24.6/67

EUT Pol :H Plane Antenna Pol. :Horizontal

Test Frequency :714.5 MHz Engineer :Nick Lin



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	<sup>'</sup> dBm	dBi/dBd	dB	dBm	dB
63.950	-75.20	-66.70	-7.71	-0.79	-13.00	-62.20
92.080	-83.28	-74.83	-7.47	-0.99	-13.00	-70.28
156.100	-71.55	-66.09	-4.24	-1.23	-13.00	-58.55
207.510	-83.28	-80.30	-1.49	-1.49	-13.00	-70.28
449.040	-81.20	-77.87	-1.10	-2.24	-13.00	-68.20
605.210	-77.16	-73.84	-0.69	-2.64	-13.00	-64.16
1429.000	-32.40	-36.42	8.08	-4.05	-13.00	-19.40
2143.500	-50.78	-55.28	9.46	-4.97	-13.00	-37.78

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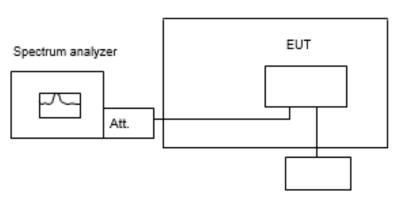
# 11 FREQUENCY STABILITY MEASUREMENT

## **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**





Variable DC Power Supply

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 25°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 25°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.

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## **Measurement Result**

Note: The battery is rated 3.6V dc.

#### 11.4.1 Cat M1

Reference Freq.:		M1 B2 Mid nannel	1880.0000	MHz 10M QPSK CH 18900		
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit		
	Fre	eq. ERROR vs. V	DLTAGE			
4.14	25	1879.999995	-0.0028			
3.6	25	1880.000004	0.0019			
3.06	25	1879.999998	-0.0012	+/- 2.5 ppm		
2.5 (End Point)	25	1880.000006	0.0031	, =====================================		
	ı	req. ERROR vs.	Temp.			
3.6	-30	1880.000008	0.0041			
3.6	-20	1879.999991	-0.0046			
3.6	-10	1880.000002	0.0009			
3.6	0	1879.999992	-0.0042			
3.6	10	1879.999990	-0.0051	+/- 2.5 ppm		
3.6	20	1880.000005	0.0028			
3.6	30	1879.999996	-0.0022			
3.6	40	1879.999995	-0.0024			
3.6	50	1880.000001	0.0006			

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Reference Freq.:	_	M1 B4 Mid hannel	1732.5000	MHz 10M QPSK CH 20175			
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit			
	Fre	eq. ERROR vs. VC	LTAGE	-			
4.14	25	1732.500007	0.0038				
3.6	25	1732.499996	-0.0023				
3.06	25	1732.499991	-0.0054	+/- 2.5 ppm			
2.5 (End Point)	25	1732.499995	-0.0027				
	F	req. ERROR vs.	Temp.	-			
3.6	-30	1732.499993	-0.0040				
3.6	-20	1732.500001	0.0007				
3.6	-10	1732.499993	-0.0040				
3.6	0	1732.499990	-0.0056				
3.6	10	1732.499998	-0.0012	+/- 2.5 ppm			
3.6	20	1732.500004	0.0025				
3.6	30	1732.499992	-0.0046				
3.6	40	1732.499996	-0.0023				
3.6	50	1732.499993	-0.0039				
Reference Freq.:		M1 B5 Mid hannel	836.5000	MHz 10M QPSK CH 20525			
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit			
		eq. ERROR vs. VO	DLTAGE				
4.14	25	836.500009	0.0103				
3.6	25	836.499995	-0.0065				
3.06	25	836.500003	0.0039	+/- 2.5 ppm			
2.5 (End Point)	25	836.499992	-0.0097				
	<u> </u>	req. ERROR vs.	Temp.				
3.6	-30	836.500002	0.0029				
3.6	-20	836.500002	0.0028				
3.6	-10	836.499990	-0.0116				
3.6	0	836.499993	-0.0081				
3.6	10	836.499996	-0.0049	+/- 2.5 ppm			
3.6	20	836.499998	-0.0022				
3.6	30	836.499992	-0.0095				
3.6	40	836.500010	0.0119				
3.6	50	836.500004	0.0049				

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Reference Freq.:	_	11 B12 Mid nannel	707.5000	MHz 10M QPSK CH 23095			
Power Supply Vdc	Temp. (°C)	Temp. (°C) Freq. (MHz)		Limit			
	Fre	eq. ERROR vs. V	OLTAGE				
4.14	25	707.499996	-0.0057				
3.6	25	707.499999	-0.0007				
3.06	25	707.500008	0.0109	+/- 2.5 ppm			
2.5 (End Point)	25	707.499990	-0.0139				
	F	req. ERROR vs.	Temp.				
3.6	-30	707.499999	-0.0009				
3.6	-20	707.499995	-0.0077				
3.6	-10	707.500006	0.0082				
3.6	0	707.500003	0.0036				
3.6	10	707.499990	-0.0141	+/- 2.5 ppm			
3.6	20	707.500003	0.0041				
3.6	30	707.499997	-0.0037				
3.6	40	707.500004	0.0059				
3.6	50	707.499993	-0.0100				

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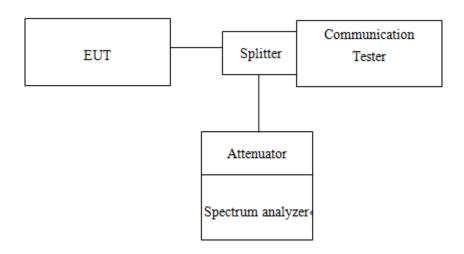
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12 PEAK TO AVERAGE RATIO

## **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 ≥ 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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## **Measurement Result**

#### 12.4.1 Cat M1

	CAT-M1 BAND 2									
Chai	Channel bandwidth: 1.4MHz				annel band	width: 3MH	Ηz			
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)				
(MHz)	СП	16QAM	Limit	(MHz)	СП	16QAM	Limit			
1850.7	18607	6.32	13	1851.5	18615	6.29	13			
1880.0	18900	8.00	13	1880.0	18900	5.08	13			
1909.3	19193	7.25	13	1908.5	19185	6.74	13			

CAT-M1 BAND 2									
Channel bandwidth: 5MHz				Cha	nnel band	width: 10M	Hz		
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)			
(MHz)	СП	16QAM	Limit	(MHz)	СП	16QAM	Limit		
1852.5	18625	7.11	13	1855.0	18650	6.10	13		
1880.0	18900	6.55	13	1880.0	18900	6.39	13		
1907.5	19175	10.04	13	1905.0	19150	6.58	13		

	CAT-M1 BAND 2									
Cha	Channel bandwidth: 15MHz				Channel bandwidth: 20MHz					
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)			
(MHz)	СП	16QAM	Limit	(MHz)	СП	16QAM	Limit			
1857.5	18675	5.86	13	1860.0	18700	5.79	13			
1880.0	18900	6.03	13	1880.0	18900	5.97	13			
1902.5	19125	6.10	13	1900.0	19100	6.05	13			

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	CAT-M1 BAND 4										
Chai	Channel bandwidth: 1.4MHz				annel band	width: 3MF	-lz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)					
(MHz)	СП	16QAM	Limit	(MHz)	СП	16QAM	Limit				
1710.7	19957	6.39	13	1711.5	19965	6.13	13				
1732.5	20175	6.32	13	1732.5	20175	6.09	13				
1754.3	20393	6.97	13	1753.5	20385	6.82	13				

	CAT-M1 BAND 4									
Channel bandwidth: 5MHz				Cha	nnel band	width: 10M	Hz			
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)				
(MHz)	СП	16QAM	Limit	(MHz)	СП	16QAM	Limit			
1712.5	19975	5.94	13	1715.0	20000	6.04	13			
1732.5	20175	5.93	13	1732.5	20175	6.00	13			
1752.5	20375	7.52	13	1750.0	20350	6.25	13			

CAT-M1 BAND 4									
Cha	nnel band	width: 15M	Hz	Cha	nnel band	width: 20M	Hz		
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)			
(MHz)	СП	16QAM	Limit	(MHz)	СП	16QAM	Limit		
1717.5	20025	7.56	13	1720.0	20050	5.72	13		
1732.5	20175	7.47	13	1732.5	20175	5.67	13		
1747.5	20325	7.52	13	1745.0	20300	5.66	13		

	CAT-M1 BAND 5									
Chai	Channel bandwidth: 1.4MHz				annel band	width: 3MH	Ηz			
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)			
(MHz)	СП	16QAM	Limit	(MHz)	СП	16QAM	Limit			
824.7	20407	6.15	13	825.5	20415	5.95	13			
836.5	20525	6.20	13	836.5	20525	6.06	13			
848.3	20643	6.31	13	847.5	20635	6.14	13			

CAT-M1 BAND 5								
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)		
(MHz)		16QAM	Limit	(MHz)	СП	16QAM	Limit	
826.5	20425	5.96	13	829.0	20450	5.85	13	
836.5	20525	6.06	13	836.5	20525	5.91	13	
846.5	20625	7.83	13	844.0	20600	5.99	13	

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CAT-M1 BAND 12									
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz					
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)			
(MHz)		16QAM	Limit	(MHz)		16QAM	Limit		
699.7	23017	6.79	13	700.5	23025	6.09	13		
707.5	23095	7.16	13	707.5	23095	6.74	13		
715.3	23173	6.83	13	714.5	23165	7.40	13		

CAT-M1 BAND 12								
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)		
(MHz)		16QAM	Limit	(MHz)		16QAM	Limit	
701.5	23035	7.36	13	704.0	23060	5.89	13	
707.5	23095	7.56	13	707.5	23095	5.87	13	
713.5	23155	6.01	13	711.0	23130	5.84	13	

Please refer to next page for test plots.

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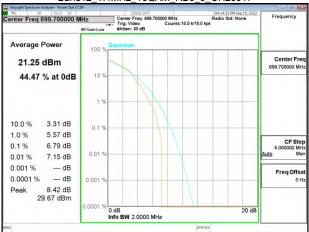
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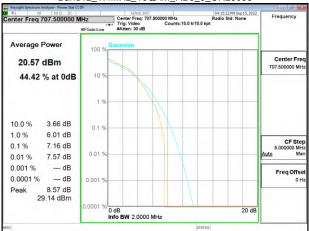
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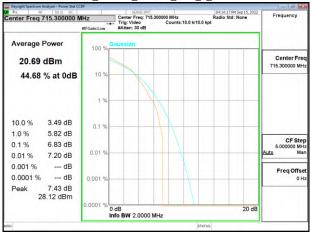
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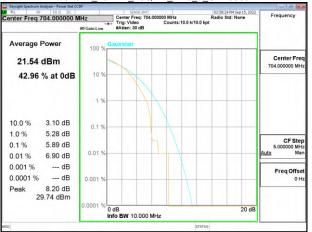
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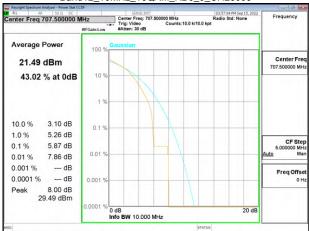
Band12 1.4MHz 16QAM RB6 0 CH23173



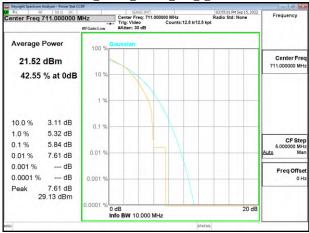
Band12 10MHz 16QAM RB6 0 CH23060



Band12\_10MHz\_16QAM\_RB6\_0\_CH23095



Band12 10MHz 16QAM RB6 0 CH23130



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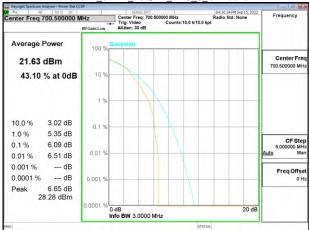
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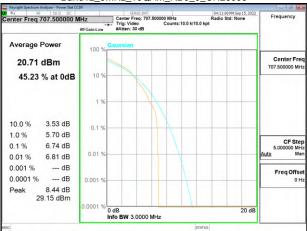
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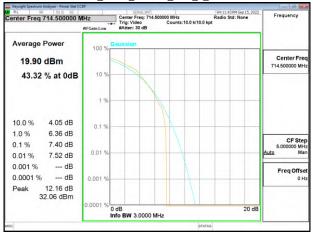
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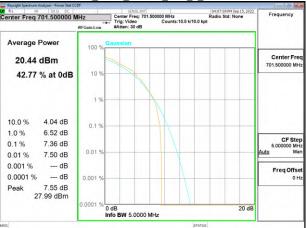
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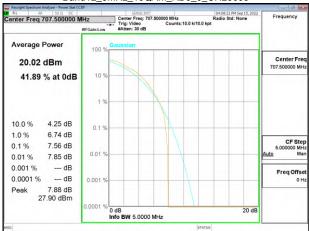
Band12 3MHz 16QAM RB6 0 CH23165



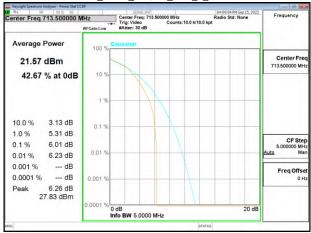
Band12 5MHz 16QAM RB6 0 CH23035



Band12\_5MHz\_16QAM\_RB6\_0\_CH23095



Band12\_5MHz\_16QAM\_RB6\_0\_CH23155



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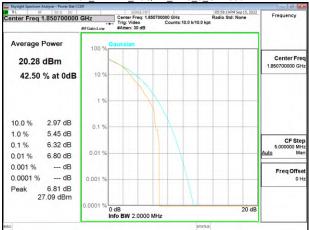
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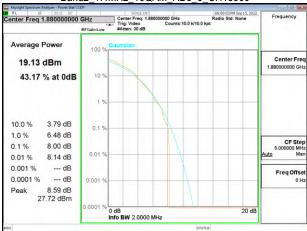
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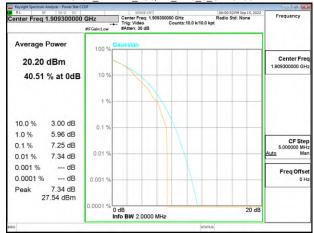
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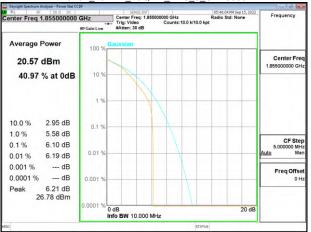
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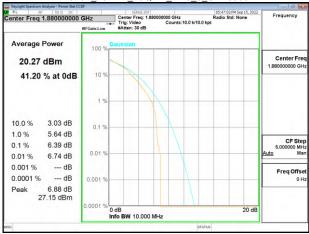
Band2 1.4MHz 16QAM RB6 0 CH19193



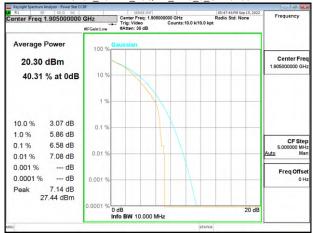
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Band2 10MHz 16QAM RB6 0 CH18900



Band2 10MHz 16QAM RB6 0 CH19150



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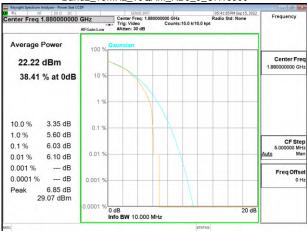
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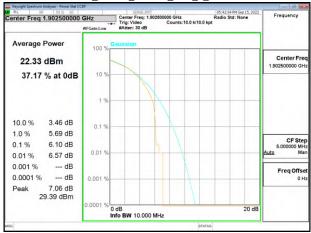




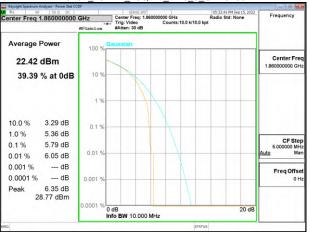
Band2\_15MHz\_16QAM\_RB6\_0\_CH18900



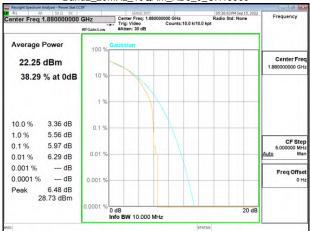
Band2 15MHz 16QAM RB6 0 CH19125



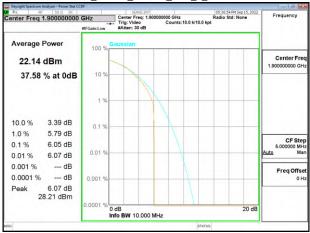
Band2 20MHz 16QAM RB6 0 CH18700



Band2\_20MHz\_16QAM\_RB6\_0\_CH18900



Band2\_20MHz\_16QAM\_RB6\_0\_CH19100



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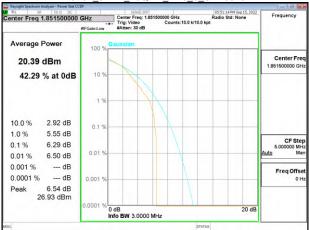
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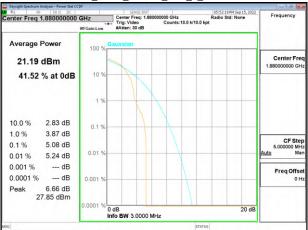
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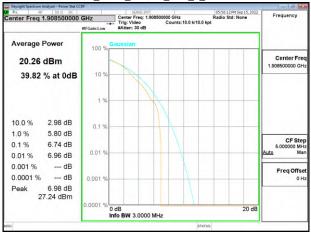
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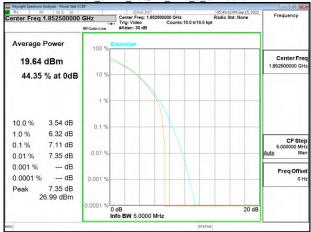
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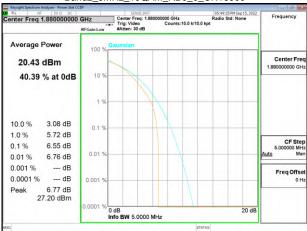
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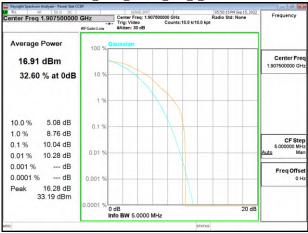
Band2 5MHz 16QAM RB6 0 CH18625



Band2\_5MHz\_16QAM\_RB6\_0\_CH18900



Band2\_5MHz\_16QAM\_RB6\_0\_CH19175



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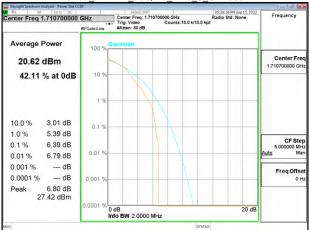
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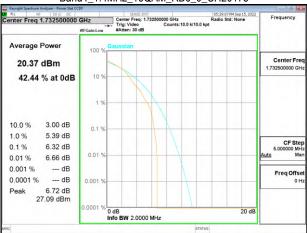
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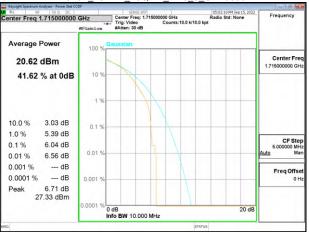
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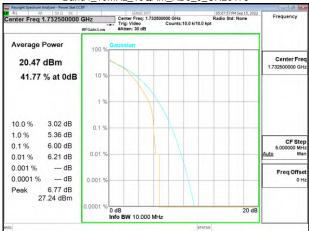
Band4 1.4MHz 16QAM RB6 0 CH20393



Band4\_10MHz\_16QAM\_RB6\_0\_CH20000



Band4\_10MHz\_16QAM\_RB6\_0\_CH20175



Band4\_10MHz\_16QAM\_RB6\_0\_CH20350



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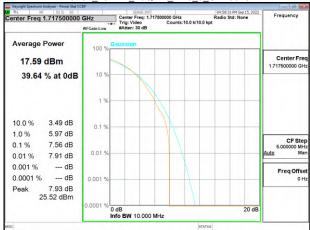
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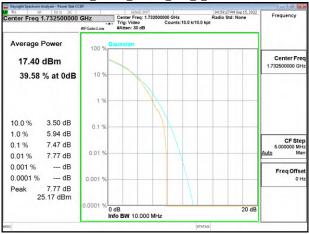
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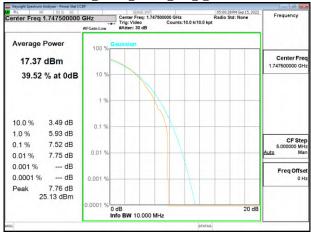




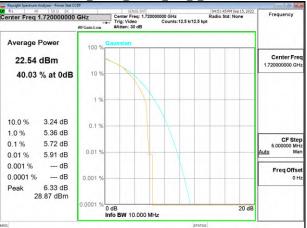
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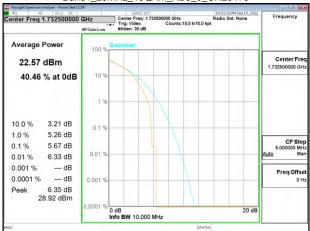
Band4 15MHz 16QAM RB6 0 CH20325



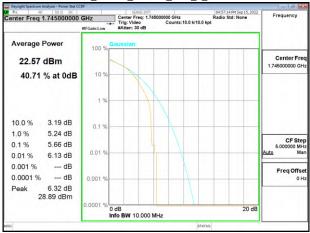
Band4 20MHz 16QAM RB6 0 CH20050



Band4\_20MHz\_16QAM\_RB6\_0\_CH20175



Band4 20MHz 16QAM RB6 0 CH20300



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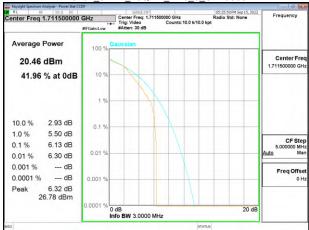
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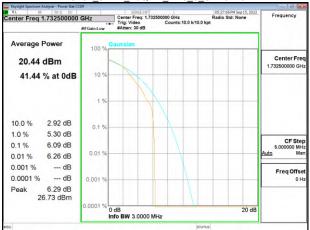
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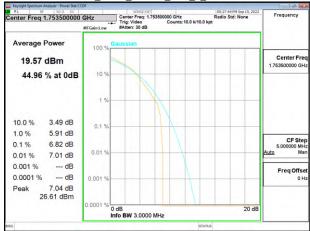




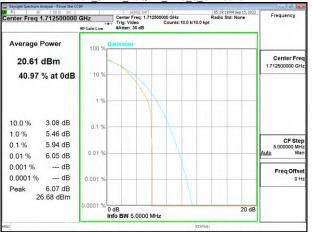
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Band4 3MHz 16QAM RB6 0 CH20385



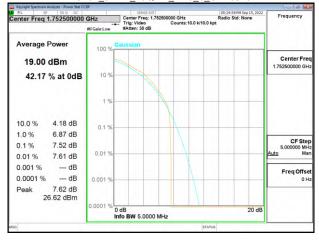
Band4 5MHz 16QAM RB6 0 CH19975



Band4 5MHz 16QAM RB6 0 CH20175



Band4 5MHz 16QAM RB6 0 CH20375



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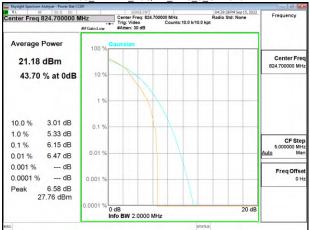
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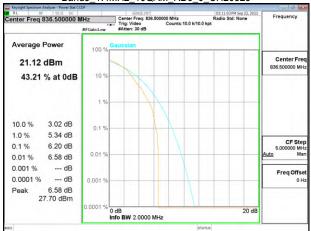
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Band5 1.4MHz 16QAM RB6 0 CH20407



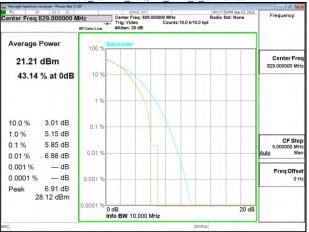




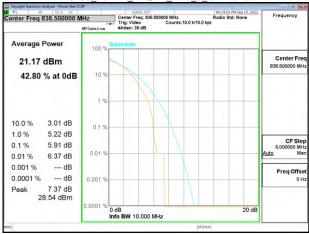
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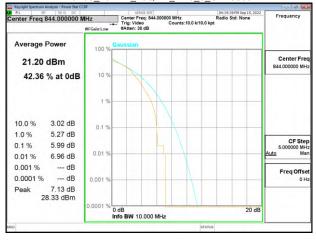
Band5\_10MHz\_16QAM\_RB6\_0\_CH20450



Band5 10MHz 16QAM RB6 0 CH20525



Band5 10MHz 16QAM RB6 0 CH20600



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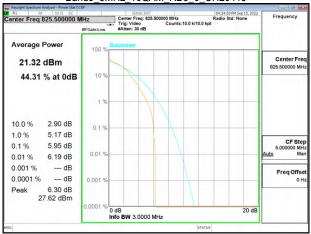
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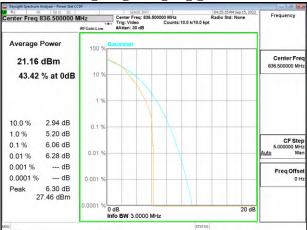
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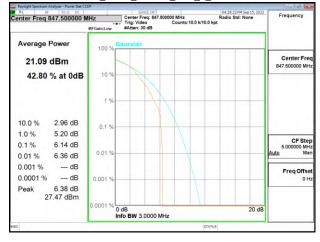




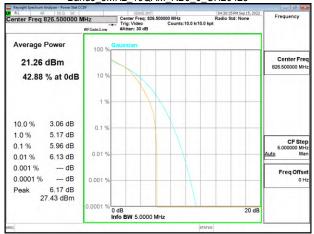
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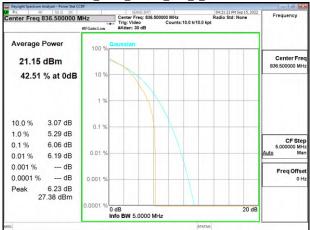
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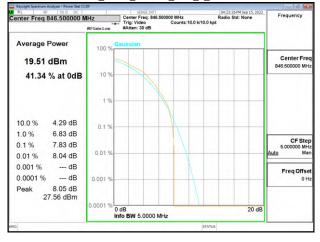
Band5 5MHz 16QAM RB6 0 CH20425



Band5\_5MHz\_16QAM\_RB6\_0\_CH20525



Band5\_5MHz\_16QAM\_RB6\_0\_CH20625



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