

# TEST REPORT

Applicant Name: TECNO MOBILE LIMITED  
Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG  
Report Number: SZ1231211-74617E-RF-00E  
FCC ID: 2ADYY-CL7

## Test Standard (s)

FCC PART 27; FCC PART 22H; FCC PART 24E

## Sample Description

Product Type: Mobile Phone  
Model No.: CL7  
Multiple Model(s) No.: N/A  
Trade Mark: TECNO  
Date Received: 2023/12/11  
Issue Date: 2024/03/08

Test Result:	Pass <sup>▲</sup>
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▲ In the configuration tested, the EUT complied with the standards above.

## Prepared and Checked By:

*Black Chen*

Black Chen  
RF Engineer

## Approved By:

*Nancy Wang*

Nancy Wang  
RF Supervisor

Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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### DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	SZ1231211-74617E-RF-00E	Original Report	2024/03/08

**GENERAL INFORMATION**

**Product Description for Equipment under Test (EUT)**

Product	Mobile Phone			
Tested Model	CL7			
Multiple Model(s)	N/A			
Frequency Range	GSM 850: 824-849MHz(TX); 869-894MHz(RX) PCS 1900: 1850-1910MHz(TX); 1930-1990MHz(RX) WCDMA Band 2: 1850-1910MHz(TX); 1930-1990MHz(RX) WCDMA Band 4: 1710-1755MHz(TX); 2110-2155MHz(RX) WCDMA Band 5: 824-849MHz(TX); 869-894MHz(RX) LTE Band 2: 1850-1910MHz(TX); 1930-1990MHz(RX) LTE Band 4: 1710-1755MHz(TX); 2110-2155MHz(RX) LTE Band 5: 824-849MHz(TX); 869-894MHz(RX) LTE Band 7: 2500-2570MHz(TX); 2620-2690MHz(TX) LTE Band 12: 699-716MHz(TX); 729-746MHz(RX) LTE Band 17: 704-716MHz(TX); 734-746MHz(RX) LTE Band 38: 2570-2620MHz(TX/RX) LTE Band 40 Lower: 2305-2315MHz (TX/RX) LTE Band 40 Upper: 2350-2360MHz (TX/RX) LTE Band 41: 2496-2690MHz(TX/RX) LTE Band 42: 3450-3550MHz(TX/RX) LTE Band 66: 1710-1780MHz(TX); 2110-2200MHz(RX)			
Modulation Technique	2G: GMSK; 3G: BPSK, QPSK, 16QAM, 64QAM 4G: QPSK, 16QAM, 64QAM			
Antenna Specification <sup>#</sup>	Antenna	Operation Bands	Antenna Gain (G <sub>T</sub> ) (dBi)	L <sub>c</sub> (dB)
	ANT0	GSM 850/WCDMA/LTE B5	-6.9	0.5
		PCS1900/WCDMA/LTE B2	-1.0	0.8
		WCDMA/LTE B4	-3.0	0.8
		LTE B12	-6.0	0.5
		LTE B17	-6.0	0.5
		LTE B66	-2.1	0.8
	ANT1	LTE B7	-2.7	0.8
		LTE B38	-2.8	0.8
		LTE B40	-3.5	0.8
	ANT4	GSM 850/WCDMA/LTE B5	-6.1	0
		PCS1900/WCDMA/LTE B2	-2.2	0
		WCDMA/LTE B4	-4.2	0
		LTE B12	-8.0	0
		LTE B17	-8.1	0
		LTE B41	0.7	0
	ANT5	LTE B66	-4.2	0
LTE B42		2.4	0	
Note: L <sub>c</sub> = Signal Attenuation in the connecting cable between the transmitter and antenna, in dB.				
Voltage Range	DC 3.91V from battery or DC 4-20V from adapter			
Sample serial number	RE: 2F2G-4, RF: 2F2G-1 (Assigned by BAACL, Shenzhen)			
Sample/EUT Status	Good condition			
Normal/Extreme Condition <sup>#</sup>	L.V.: Low Voltage 3.45V <sub>DC</sub> N.V.: Normal Voltage 3.91V <sub>DC</sub> H.V.: High Voltage 4.45V <sub>DC</sub>			

Adapter Information	Model: U700TSA Input: 100~240V, 50/60Hz 2.0A Output: 5.0V, 3.0A 15.0W or 5.0-10.0V, 7.0A MAX or 11.0V, 6.4A MAX or 4.0-20.0V, 3.5A 70.0W MAX

## Objective

This test report is in accordance with Part 2-Subpart J, Part 22-Subpart H, Part 24-Subpart E, and Subpart 27 of the Federal Communication Commission's rules.

The objective is to determine the compliance of the EUT with FCC rules for output power, modulation characteristic, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability and band edge.

## Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2-Subpart J as well as the following parts:

Part 22 Subpart H - Public Mobile Services  
Part 24 Subpart E - Personal Communication Services  
Part 27 - Miscellaneous Wireless Communications Services

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services  
KDB 971168 D01: Power Meas License Digital Systems v03r01

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

## Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		±5%
RF output power, conducted		0.72 dB(k=2, 95% level of confidence)
Unwanted Emission, conducted		1.75 dB(k=2, 95% level of confidence)
RF Frequency		213.55 Hz(k=2, 95% level of confidence)
Radiated Emissions	30MHz~200MHz (Horizontal)	4.48dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)	4.55dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)	4.85dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Vertical)	5.05dB(k=2, 95% level of confidence)
	1GHz - 6GHz	5.35dB(k=2, 95% level of confidence)
	6GHz - 18GHz	5.44dB(k=2, 95% level of confidence)
	18GHz - 40GHz	5.16dB(k=2, 95% level of confidence)
Temperature		±1°C
Humidity		±1%
Supply voltages		±0.4%

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

## Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The final qualification test was performed with the EUT operating at normal mode.

Frequency Band	Bandwidth (MHz)	Test Frequency (MHz)		
		Low	Middle	High
GSM850	0.25	824.2	836.6	848.8
PCS1900	0.25	1850.2	1880	1909.8
WCDMA B2	4.2	1852.4	1880	1907.6
WCDMA B4	4.2	1712.4	1732.6	1752.6
WCDMA B5	4.2	826.4	836.6	846.6
LTE B2	1.4	1850.7	1880	1909.3
	3	1851.5	1880	1908.5
	5	1852.5	1880	1907.5
	10	1855	1880	1905
	15	1857.5	1880	1902.5
	20	1860	1880	1900
LTE B4	1.4	1710.7	1732.5	1754.3
	3	1711.5	1732.5	1753.5
	5	1712.5	1732.5	1752.5
	10	1715	1732.5	1750
	15	1717.5	1732.5	1747.5
	20	1720	1732.5	1745
LTE B5	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829	836.5	844
LTE B7	5	2502.5	2535	2567.5
	10	2505	2535	2565
	15	2507.5	2535	2562.5
	20	2510	2535	2560
LTE B12	1.4	699.7	707.5	715.3
	3	700.5	707.5	714.5
	5	701.5	707.5	713.5
	10	704.0	707.5	711.0
LTE B17	5	706.5	710	713.5
	10	709	710	711
LTE B38	5	2572.5	2595	2617.5
	10	2575	2595	2615
	15	2577.5	2595	2612.5
	20	2580	2595	2610



Frequency Band	Bandwidth (MHz)	Test Frequency (MHz)		
		Low	Middle	High
LTE B40 Lower	5	2307.5	2310	2312.5
	10	/	2310	/
LTE B40 Upper	5	2352.5	2355	2357.5
	10	/	2355	/
LTE B41	5	2498.5	2593	2687.5
	10	2501	2593	2685
	15	2503.5	2593	2682.5
	20	2506	2593	2680
LTE B42	5	3452.5	3500	3547.5
	10	3455	3500	3545
	15	3457.5	3500	3542.5
	20	3460	3500	3540
LTE B66	1.4	1710.7	1745	1779.3
	3	1711.5	1745	1778.5
	5	1712.5	1745	1777.5
	10	1715	1745	1775
	15	1717.5	1745	1772.5
	20	1720	1745	1770

### Equipment Modifications

No modification was made to the EUT.

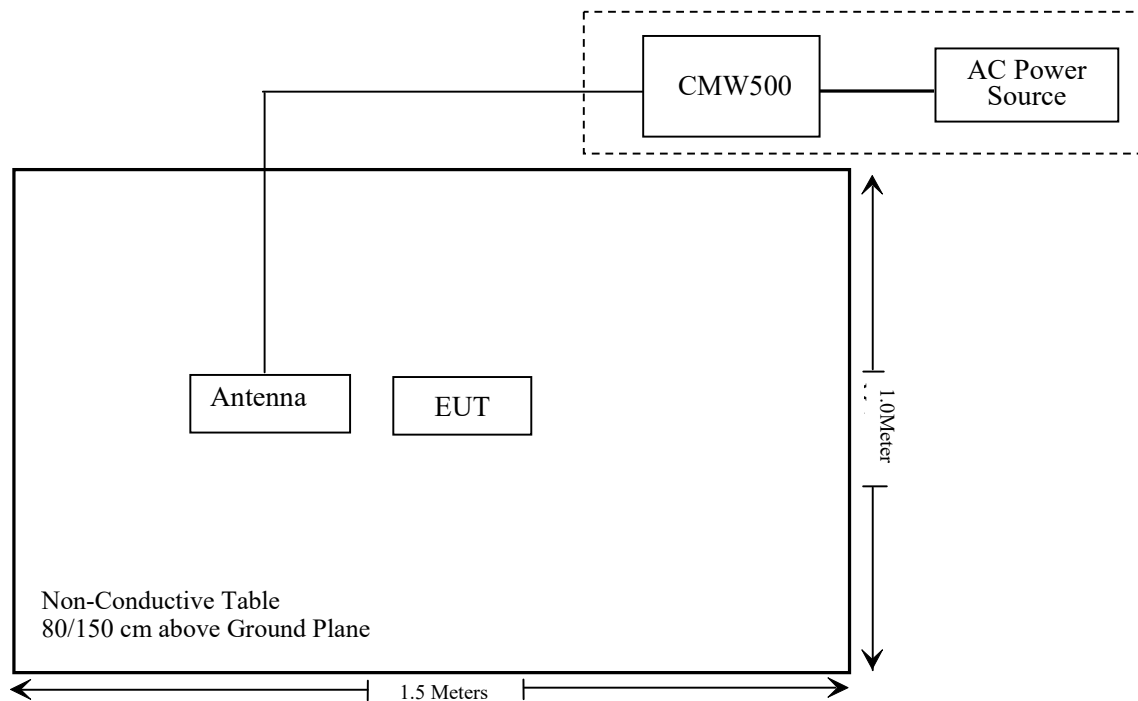
### Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	141718

### Support Cable Description

Cable Description	Length (m)	From / Port	To
Un-shielded Un-detachable AC Cable	1.2	AC Power	CMW500

### Block Diagram of Test Setup



**SUMMARY OF TEST RESULTS**

<b>FCC Rules</b>	<b>Description of Test</b>	<b>Result</b>
§1.1307 ,§2.1093	RF Exposure (SAR)	Compliant
§2.1046; § 22.913 (a) (d); § 24.232 (c) (d); §27.50 (a) (c) (d) (h) (k)	RF Output Power	Compliant
§ 2.1047	Modulation Characteristics	Not Applicable
§ 2.1049; § 22.905; § 22.917; § 24.238; §27.53	Occupied Bandwidth	Compliant
§ 2.1051; §22.917 (a); § 24.238 (a); §27.53;	Spurious Emissions at Antenna Terminal	Compliant
§ 2.1053; § 22.917 (a); § 24.238 (a); §27.53	Field Strength of Spurious Radiation	Compliant
§ 22.917 (a); § 24.238 (a); §27.53 (a) (g) (h)(m)(n)	Band Edge	Compliant
§ 2.1055; § 22.355; § 24.235; §27.54;	Frequency stability	Compliant

**TEST EQUIPMENT LIST**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
<b>Radiated Emission Test</b>					
R&S	EMI Test Receiver	ESR3	102455	2023/02/08	2024/02/07
Sonoma instrument	Pre-amplifier	310 N	186238	2023/06/08	2024/06/07
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2024/07/19
Unknown	Cable	Chamber Cable 1	F-03-EM236	2023/08/03	2024/08/02
Unknown	Cable	Chamber Cable 4	EC-007	2023/08/03	2024/08/02
COM-POWER	Dipole Antenna	AD-100	721027	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2023/04/18	2024/04/17
COM-POWER	Pre-amplifier	PA-122	181919	2023/06/29	2024/06/28
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2024/07/25
Electro-Mechanics Co	Horn Antenna	3115	9107-3694	2021/01/15	2024/01/14
Unknown	RF Cable	KMSE	0735	2023/10/08	2024/10/07
Unknown	RF Cable	UFA147	219661	2023/10/08	2024/10/07
MICRO-TRONICS	2.8G Passband filter	HPM50111	F-03-EM217	2023/08/03	2024/08/02
Unknown	1.3G High Pass filter	1.3GHz	101120	2023/08/03	2024/08/02
A.H.System	Pre-amplifier	PAM-1840VH	190	2023/08/03	2024/08/02
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17
Electro-Mechanics Co	Horn Antenna	3116	2026	2023/09/18	2026/09/17
Agilent	Signal Generator	N5183A	MY51040755	2023/02/08	2024/02/07
<b>RF Conducted Test</b>					
BACL	Temperature & Humidity Chamber	BTH-150-40	30144	2024/01/16	2025/01/15
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	141718	2023/09/06	2024/09/05
Rohde & Schwarz	Signal and Spectrum Analyzer	FSV40	101942	2023/12/18	2024/12/17
instek	DC Power Supply	GPS-3030DD	EM832096	NCR	NCR
Fluke	Digital Multimeter	287	19000011	2023/06/08	2024/06/07
WEINSCHEL	3dB Attenuator	Unknown	F-03-EM220	2023/07/04	2024/07/03
WEINSCHEL	Power Splitter	1515	RH397	2023/07/04	2024/07/03

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

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## **FCC §1.1307(b) & §2.1093 - RF EXPOSURE INFORMATION**

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### **Applicable Standard**

FCC§1.1310 and §2.1093.

### **Test Result**

Compliant, please refer to the SAR report: SZ1231211-74617E-SA.

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## **FCC§2.1047 - MODULATION CHARACTERISTIC**

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According to FCC § 2.1047(d), Part 22H,24E&27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

## **FCC § 2.1046, § 22.913 (a) (d) & § 24.232 (c) (d) & § 27.50 (a) (c) (d) (h) (k) - RF OUTPUT POWER**

### **Applicable Standard**

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC §2.1046 and §24.232 (c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to §27.50 (a)(3) *Mobile and portable stations.*

(i) For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, *except that* for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

(ii) Mobile and portable stations are not permitted to transmit in the 2315-2320 MHz and 2345-2350 MHz bands.

(iii) *Automatic transmit power control.* Mobile and portable stations transmitting in the 2305-2315 MHz band or in the 2350-2360 MHz band must employ automatic transmit power control when operating so the stations operate with the minimum power necessary for successful communications.

(iv) *Prohibition on external vehicle-mounted antennas.* The use of external vehicle-mounted antennas for mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band is prohibited.

According to §27.50(c), Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP. And Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

According to §27.50(d), Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

According to §27.50 (h) The following power limits shall apply in the BRS and EBS:

(2) Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

According to §27.50 (k) The following power requirements apply to stations transmitting in the 3450 – 3550 MHz band:

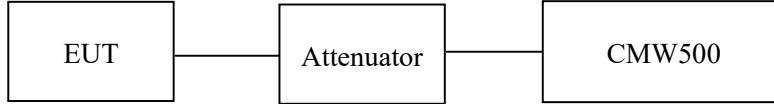
(3) Mobile devices are limited to 1 Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

**Test Procedure**

Conducted method: ANSI C63.26-2015 Section 5.2

The RF output of the transmitter was connected to the CMW500 through sufficient attenuation.



**Test Data**

**Environmental Conditions**

<b>Temperature:</b>	23.5~24.5 °C
<b>Relative Humidity:</b>	40~45 %
<b>ATM Pressure:</b>	101.0kPa

*The testing was performed by Jim Cheng from 2024-01-29 to 2024-02-29.*

**Test Result: Compliant**

**ANT0:**

**Cellular Band (Part 22H)**

**GSM 850**

Test Mode	Conducted Average Output Power (dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
GSM	32.72	<b>32.78</b>	32.67	<b>23.23</b>	38.45
GPRS 1 Slot	32.73	<b>32.78</b>	32.67	23.23	38.45
GPRS 2 Slots	31.67	31.69	31.60	22.14	38.45
GPRS 3 Slots	30.18	30.22	30.13	20.67	38.45
GPRS 4 Slots	29.10	29.12	29.04	19.57	38.45
EDGE 1 Slot	<b>27.67</b>	27.65	27.64	<b>18.12</b>	38.45
EDGE 2 Slots	26.69	26.72	26.62	17.17	38.45
EDGE 3 Slots	24.70	24.68	24.68	15.15	38.45
EDGE 4 Slots	23.49	23.37	23.30	13.94	38.45

Note:  
 ERP= Conducted Power(dBm) - L<sub>C</sub>(dB) + G<sub>T</sub>(dBd)  
 G<sub>T</sub>(dBd)=G<sub>T</sub>(dBi)-2.15



**WCAMA B5**

Test Mode	Conducted Average Output Power (dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	<b>23.77</b>	23.63	23.57	<b>14.22</b>	38.45
HSDPA Subtest 1	22.27	22.12	21.84	12.72	38.45
HSDPA Subtest 2	22.23	22.09	21.98	12.68	38.45
HSDPA Subtest 3	22.19	22.21	21.83	12.66	38.45
HSDPA Subtest 4	22.22	22.17	21.92	12.67	38.45
HSUPA Subtest 1	22.14	21.93	21.64	12.59	38.45
HSUPA Subtest 2	22.16	21.99	21.77	12.61	38.45
HSUPA Subtest 3	22.08	21.85	21.69	12.53	38.45
HSUPA Subtest 4	22.21	21.87	21.59	12.66	38.45
HSUPA Subtest 5	22.11	21.95	21.63	12.56	38.45
HSPA+ Subtest 1	21.95	22.02	21.76	12.47	38.45

Note:

$$ERP = \text{Conducted Power(dBm)} - L_C(\text{dB}) + G_T(\text{dBd})$$

$$G_T(\text{dBd}) = G_T(\text{dBi}) - 2.15$$

**PCS Band (Part 24E)**

**PCS 1900**

Test Mode	Conducted Average Output Power (dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
GSM	25.03	25.52	<b>25.98</b>	<b>24.18</b>	33
GPRS 1 Slot	25.02	25.55	<b>25.98</b>	24.18	33
GPRS 2 Slots	24.96	25.49	25.93	24.13	33
GPRS 3 Slots	24.92	25.45	25.86	24.06	33
GPRS 4 Slots	24.84	25.38	25.79	23.99	33
EDGE 1 Slot	<b>25.72</b>	25.50	25.63	<b>23.92</b>	33
EDGE 2 Slots	24.83	24.57	24.73	23.03	33
EDGE 3 Slots	22.84	22.57	22.85	21.05	33
EDGE 4 Slots	21.69	21.49	21.91	20.11	33

Note: EIRP=Conducted Power(dBm) - L<sub>C</sub>(dB) + G<sub>T</sub>(dBi)

**WCDMA B2**

Test Mode	Conducted Average Output Power (dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	19.81	19.87	<b>20.03</b>	<b>18.23</b>	33
HSDPA Subtest 1	18.17	18.76	18.54	16.96	33
HSDPA Subtest 2	18.22	18.56	18.63	16.83	33
HSDPA Subtest 3	18.11	18.89	18.59	17.09	33
HSDPA Subtest 4	18.45	18.64	18.49	16.84	33
HSUPA Subtest 1	17.94	18.42	18.32	16.62	33
HSUPA Subtest 2	18.05	18.48	18.39	16.68	33
HSUPA Subtest 3	18.02	18.51	18.35	16.71	33
HSUPA Subtest 4	17.92	18.39	18.29	16.59	33
HSUPA Subtest 5	17.89	18.54	18.36	16.74	33
HSPA+ Subtest 1	18.09	18.38	18.52	16.72	33

Note: EIRP=Conducted Power(dBm) - L<sub>C</sub>(dB) + G<sub>T</sub>(dBi)

**AWS Band**

**WCDMA B4**

Test Mode	Conducted Average Output Power (dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	<b>19.50</b>	19.26	19.23	<b>15.70</b>	30
HSDPA Subtest 1	17.91	18.19	17.85	14.39	30
HSDPA Subtest 2	17.86	18.15	17.92	14.35	30
HSDPA Subtest 3	17.95	18.03	17.81	14.23	30
HSDPA Subtest 4	17.98	18.13	17.88	14.33	30
HSUPA Subtest 1	17.89	17.47	17.64	14.09	30
HSUPA Subtest 2	17.86	17.68	17.71	14.06	30
HSUPA Subtest 3	17.79	17.58	17.75	13.99	30
HSUPA Subtest 4	17.85	17.49	17.59	14.05	30
HSUPA Subtest 5	17.91	17.51	17.63	14.11	30
HSPA+ Subtest 1	17.86	18.02	17.95	14.22	30

Note: EIRP=Conducted Power(dBm) - L<sub>C</sub>(dB) + G<sub>T</sub>(dBi)

**ANT4:**

**Cellular Band (Part 22H)**

**GSM 850**

Test Mode	Conducted Average Output Power (dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
GSM	<b>31.29</b>	31.11	30.79	<b>23.04</b>	38.45
GPRS 1 Slot	31.19	31.06	30.75	22.94	38.45
GPRS 2 Slots	30.69	30.51	30.18	22.44	38.45
GPRS 3 Slots	29.18	29.03	28.75	20.93	38.45
GPRS 4 Slots	28.11	27.99	27.76	19.86	38.45
EDGE 1 Slot	26.00	26.07	<b>26.19</b>	<b>17.94</b>	38.45
EDGE 2 Slots	25.02	25.10	25.08	16.85	38.45
EDGE 3 Slots	22.94	23.14	23.14	14.89	38.45
EDGE 4 Slots	21.86	21.82	21.85	13.61	38.45

Note:

ERP= Conducted Power(dBm) - L<sub>C</sub>(dB) + G<sub>T</sub>(dBd)

G<sub>T</sub>(dBd)=G<sub>T</sub>(dBi)-2.15

**WCAMA B5**

Test Mode	Conducted Average Output Power (dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	<b>22.23</b>	22.01	21.95	<b>13.98</b>	38.45
HSDPA Subtest 1	20.66	20.37	20.36	12.41	38.45
HSDPA Subtest 2	20.70	20.44	20.41	12.45	38.45
HSDPA Subtest 3	20.76	20.48	20.44	12.51	38.45
HSDPA Subtest 4	20.82	20.51	20.48	12.57	38.45
HSUPA Subtest 1	20.23	20.24	20.03	11.99	38.45
HSUPA Subtest 2	20.29	20.29	20.06	12.04	38.45
HSUPA Subtest 3	20.36	20.36	20.10	12.11	38.45
HSUPA Subtest 4	20.42	20.38	20.17	12.17	38.45
HSUPA Subtest 5	20.49	20.43	20.19	12.24	38.45
HSPA+ Subtest 1	20.53	20.47	20.23	12.28	38.45

Note:

ERP= Conducted Power(dBm) - L<sub>C</sub>(dB) + G<sub>T</sub>(dBd)

G<sub>T</sub>(dBd)=G<sub>T</sub>(dBi)-2.15

**PCS Band (Part 24E)**

**PCS 1900**

Test Mode	Conducted Average Output Power (dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
GSM	23.33	23.98	<b>24.32</b>	<b>22.12</b>	33
GPRS 1 Slot	23.21	23.82	24.15	21.95	33
GPRS 2 Slots	23.16	23.77	24.12	21.92	33
GPRS 3 Slots	23.12	23.73	24.07	21.87	33
GPRS 4 Slots	23.19	23.75	24.06	21.86	33
EDGE 1 Slot	<b>23.35</b>	22.89	22.92	<b>21.15</b>	33
EDGE 2 Slots	22.38	21.97	22.05	20.18	33
EDGE 3 Slots	20.43	19.87	19.96	18.23	33
EDGE 4 Slots	19.27	18.70	18.86	17.07	33

Note: EIRP=Conducted Power(dBm) - L<sub>c</sub>(dB) + G<sub>T</sub>(dBi)

**WCDMA B2**

Test Mode	Conducted Average Output Power (dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	18.20	<b>18.42</b>	18.07	<b>16.22</b>	33
HSDPA Subtest 1	16.32	16.81	16.47	14.61	33
HSDPA Subtest 2	16.35	16.85	16.50	14.65	33
HSDPA Subtest 3	16.39	16.91	16.55	14.71	33
HSDPA Subtest 4	16.41	16.98	16.62	14.78	33
HSUPA Subtest 1	16.55	16.60	16.39	14.40	33
HSUPA Subtest 2	16.60	16.67	16.44	14.47	33
HSUPA Subtest 3	16.64	16.74	16.48	14.54	33
HSUPA Subtest 4	16.66	16.79	16.51	14.59	33
HSUPA Subtest 5	16.70	16.81	16.59	14.61	33
HSPA+ Subtest 1	16.76	16.85	16.63	14.65	33

Note: EIRP=Conducted Power(dBm) - L<sub>c</sub>(dB) + G<sub>T</sub>(dBi)

**AWS Band****WCDMA B4**

Test Mode	Conducted Average Output Power (dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	<b>17.81</b>	17.70	17.67	<b>13.61</b>	30
HSDPA Subtest 1	16.37	16.12	16.18	12.17	30
HSDPA Subtest 2	16.43	16.16	16.24	12.23	30
HSDPA Subtest 3	16.47	16.22	16.32	12.27	30
HSDPA Subtest 4	16.52	16.30	16.39	12.32	30
HSUPA Subtest 1	16.15	16.00	15.92	11.95	30
HSUPA Subtest 2	16.23	16.07	15.94	12.03	30
HSUPA Subtest 3	16.28	16.11	16.00	12.08	30
HSUPA Subtest 4	16.36	16.16	16.02	12.16	30
HSUPA Subtest 5	16.38	16.23	16.09	12.18	30
HSPA+ Subtest 1	16.45	16.31	16.12	12.25	30

Note: EIRP=Conducted Power(dBm) - L<sub>C</sub>(dB) + G<sub>T</sub>(dBi)

**LTE Band  
Band 2 ANT0:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	19.41	19.72	19.63	17.98	33
	RB1#3	19.44	19.69	19.54		
	RB1#5	19.39	19.73	19.56		
	RB3#0	19.39	<b>19.78</b>	19.66		
	RB3#3	19.45	19.71	19.67		
	RB6#0	18.47	18.78	18.71		
1.4MHz 16QAM	RB1#0	18.48	18.76	18.84	17.09	33
	RB1#3	18.47	18.72	18.77		
	RB1#5	18.45	18.74	18.85		
	RB3#0	18.51	18.85	18.59		
	RB3#3	18.45	<b>18.89</b>	18.56		
	RB6#0	17.33	17.79	17.75		
1.4MHz 64QAM	RB1#0	18.56	<b>18.58</b>	17.96	16.78	33
	RB1#3	18.34	18.37	18.18		
	RB1#5	18.06	18.21	18.17		
	RB3#0	18.32	18.56	18.21		
	RB3#3	18.15	18.31	18.39		
	RB6#0	17.14	17.35	17.10		
3MHz QPSK	RB1#0	19.44	19.72	19.56	17.93	33
	RB1#8	19.38	19.72	19.65		
	RB1#14	19.42	<b>19.73</b>	19.62		
	RB6#0	18.45	18.78	18.68		
	RB6#9	18.41	18.71	18.70		
	RB15#0	18.44	18.75	18.70		
3MHz 16QAM	RB1#0	<b>18.94</b>	18.91	18.64	17.14	33
	RB1#8	18.91	18.86	18.68		
	RB1#14	18.90	18.90	18.72		
	RB6#0	17.43	17.81	17.60		
	RB6#9	17.50	17.71	17.68		
	RB15#0	17.53	17.61	17.71		
3MHz 64QAM	RB1#0	18.35	18.14	18.08	16.69	33
	RB1#8	18.24	18.24	18.43		
	RB1#14	18.45	<b>18.49</b>	18.47		
	RB6#0	17.10	17.48	17.46		
	RB6#9	17.08	17.37	17.41		
	RB15#0	17.12	17.25	17.45		
5MHz QPSK	RB1#0	19.51	19.76	19.93	<b>18.16</b>	33
	RB1#13	19.45	19.72	19.87		
	RB1#24	19.53	19.73	<b>19.96</b>		
	RB15#0	18.49	18.75	18.78		

	RB15#10	18.41	18.69	18.61		
	RB25#0	18.47	18.80	18.70		
5MHz 16QAM	RB1#0	18.78	18.79	18.66	17.06	33
	RB1#13	18.69	<b>18.86</b>	18.51		
	RB1#24	18.80	18.83	18.59		
	RB15#0	17.44	17.78	17.73		
	RB15#10	17.40	17.74	17.71		
	RB25#0	17.47	17.78	17.80		
5MHz 64QAM	RB1#0	18.72	18.58	<b>18.75</b>	16.95	33
	RB1#13	18.32	18.20	18.31		
	RB1#24	18.37	18.50	18.38		
	RB15#0	17.32	17.34	17.35		
	RB15#10	17.22	17.20	17.41		
	RB25#0	17.27	17.40	17.45		
10MHz QPSK	RB1#0	19.46	19.73	19.58	18.01	33
	RB1#25	19.54	<b>19.81</b>	19.67		
	RB1#49	19.48	19.76	19.60		
	RB25#0	18.47	18.73	18.64		
	RB25#25	18.46	18.80	18.70		
	RB50#0	18.45	18.84	18.71		
10MHz 16QAM	RB1#0	18.54	<b>19.29</b>	18.85	<b>17.49</b>	33
	RB1#25	18.51	19.28	18.84		
	RB1#49	18.51	19.29	18.77		
	RB25#0	17.58	17.76	17.72		
	RB25#25	17.62	17.81	17.71		
	RB50#0	17.50	17.73	17.70		
10MHz 64QAM	RB1#0	18.36	18.39	18.35	16.85	33
	RB1#25	18.45	18.57	18.53		
	RB1#49	18.55	18.54	<b>18.65</b>		
	RB25#0	17.35	17.31	17.32		
	RB25#25	17.34	17.28	17.56		
	RB50#0	17.12	17.26	17.35		
15MHz QPSK	RB1#0	19.37	19.62	19.61	17.90	33
	RB1#38	19.47	<b>19.70</b>	19.58		
	RB1#74	19.46	19.65	19.57		
	RB36#0	18.51	18.64	18.70		
	RB36#39	18.49	18.71	18.61		
	RB75#0	18.52	18.74	18.65		
15MHz 16QAM	RB1#0	18.79	19.21	18.80	17.47	33
	RB1#38	18.84	<b>19.27</b>	18.75		
	RB1#74	18.92	19.22	18.72		
	RB36#0	17.40	17.71	17.75		
	RB36#39	17.48	17.68	17.67		
	RB75#0	17.49	17.76	17.70		
15MHz 64QAM	RB1#0	18.68	<b>18.70</b>	18.63	16.90	33
	RB1#38	18.44	18.37	18.44		
	RB1#74	18.61	18.40	18.49		

	RB36#0	17.46	17.37	17.40		
	RB36#39	17.34	17.29	17.33		
	RB75#0	17.11	17.29	17.26		
20MHz QPSK	RB1#0	19.44	19.70	19.63	17.97	33
	RB1#50	19.53	<b>19.77</b>	19.71		
	RB1#99	19.50	19.68	19.58		
	RB50#0	18.54	18.76	18.76		
	RB50#50	18.54	18.71	18.63		
	RB100#0	18.51	18.70	18.75		
20MHz 16QAM	RB1#0	18.99	18.98	18.95	17.34	33
	RB1#50	<b>19.14</b>	19.07	18.84		
	RB1#99	19.12	18.99	18.82		
	RB50#0	17.55	17.72	17.75		
	RB50#50	17.48	17.77	17.59		
	RB100#0	17.52	17.72	17.74		
20MHz 64QAM	RB1#0	18.11	18.24	18.29	16.89	33
	RB1#50	18.61	18.57	18.65		
	RB1#99	<b>18.69</b>	18.51	18.63		
	RB50#0	17.55	17.34	17.60		
	RB50#50	17.43	17.24	17.39		
	RB100#0	17.21	17.32	17.46		
Note: EIRP=Conducted Power(dBm) - Lc(dB) + G <sub>T</sub> (dBi)						



**Band 2 ANT4:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	17.73	18.02	17.85	15.84	33
	RB1#3	17.71	18.01	17.90		
	RB1#5	17.71	18.01	17.89		
	RB3#0	17.75	<b>18.00</b>	17.96		
	RB3#3	17.72	18.00	17.90		
	RB6#0	16.88	17.17	17.08		
1.4MHz 16QAM	RB1#0	16.93	17.29	17.08	15.12	33
	RB1#3	16.94	<b>17.32</b>	17.10		
	RB1#5	16.93	17.29	17.11		
	RB3#0	17.07	17.16	17.13		
	RB3#3	17.08	17.15	17.16		
	RB6#0	15.90	16.20	15.99		
1.4MHz 64QAM	RB1#0	14.59	14.75	14.90	12.79	33
	RB1#3	14.37	<b>14.99</b>	14.74		
	RB1#5	14.75	14.95	14.70		
	RB3#0	14.37	14.93	14.52		
	RB3#3	14.59	14.93	14.84		
	RB6#0	14.57	14.79	14.70		
3MHz QPSK	RB1#0	17.75	<b>18.01</b>	17.86	15.81	33
	RB1#8	17.71	<b>18.01</b>	17.89		
	RB1#14	17.72	18.00	17.88		
	RB6#0	16.91	17.20	17.02		
	RB6#9	16.90	17.13	17.04		
	RB15#0	16.88	17.15	17.04		
3MHz 16QAM	RB1#0	<b>17.41</b>	17.31	17.06	15.21	33
	RB1#8	<b>17.40</b>	17.28	17.06		
	RB1#14	17.39	17.29	17.09		
	RB6#0	15.94	16.20	16.01		
	RB6#9	15.99	16.17	16.00		
	RB15#0	15.96	16.10	16.08		
3MHz 64QAM	RB1#0	14.62	14.79	14.62	12.83	33
	RB1#8	14.70	<b>15.03</b>	14.90		
	RB1#14	14.58	14.69	14.90		
	RB6#0	14.52	14.79	14.66		
	RB6#9	14.72	14.91	14.96		
	RB15#0	14.68	14.83	14.78		
5MHz QPSK	RB1#0	17.94	<b>18.14</b>	17.99	15.94	33
	RB1#13	17.90	18.06	17.90		
	RB1#24	17.97	<b>18.14</b>	17.97		
	RB15#0	17.00	17.21	17.09		
	RB15#10	16.90	17.23	17.08		

	RB25#0	16.91	17.22	17.06		
5MHz 16QAM	RB1#0	16.83	17.50	17.17	15.32	33
	RB1#13	16.86	<b>17.52</b>	17.20		
	RB1#24	16.85	17.47	17.14		
	RB15#0	16.03	16.16	16.10		
	RB15#10	15.93	16.18	16.08		
	RB25#0	15.97	16.22	16.10		
5MHz 64QAM	RB1#0	14.91	14.86	14.53	12.90	33
	RB1#13	14.75	14.84	14.55		
	RB1#24	14.83	14.84	14.83		
	RB15#0	14.89	<b>15.10</b>	14.55		
	RB15#10	14.57	14.90	14.53		
	RB25#0	14.73	14.96	14.73		
10MHz QPSK	RB1#0	17.81	18.10	17.96	15.94	33
	RB1#25	17.83	18.08	17.90		
	RB1#49	17.84	<b>18.14</b>	18.00		
	RB25#0	16.99	17.20	17.01		
	RB25#25	16.91	17.20	17.11		
	RB50#0	16.97	17.22	17.09		
10MHz 16QAM	RB1#0	17.44	17.31	17.02	15.32	33
	RB1#25	<b>17.52</b>	17.33	17.09		
	RB1#49	17.50	17.26	17.08		
	RB25#0	16.00	16.20	16.11		
	RB25#25	15.98	16.25	16.24		
	RB50#0	15.92	16.16	16.12		
10MHz 64QAM	RB1#0	14.70	14.67	14.79	12.83	33
	RB1#25	14.62	14.85	14.59		
	RB1#49	14.74	<b>15.03</b>	14.83		
	RB25#0	14.80	14.79	14.77		
	RB25#25	14.76	<b>15.03</b>	14.59		
	RB50#0	14.68	14.83	14.73		
15MHz QPSK	RB1#0	17.79	17.99	17.92	15.87	33
	RB1#38	17.90	<b>18.07</b>	17.87		
	RB1#74	17.82	17.97	17.91		
	RB36#0	16.96	17.12	17.15		
	RB36#39	16.99	17.20	17.15		
	RB75#0	17.01	17.21	17.13		
15MHz 16QAM	RB1#0	17.48	17.30	<b>17.70</b>	15.5	33
	RB1#38	17.59	17.37	17.67		
	RB1#74	17.61	17.51	17.58		
	RB36#0	15.99	16.21	16.13		
	RB36#39	16.04	16.21	16.17		
	RB75#0	16.01	16.20	16.17		
15MHz 64QAM	RB1#0	14.53	14.90	14.97	12.86	33
	RB1#38	14.77	15.02	14.83		
	RB1#74	14.83	<b>15.06</b>	14.77		
	RB36#0	14.59	14.92	14.97		

	RB36#39	14.89	14.68	14.63		
	RB75#0	14.69	14.88	14.79		
20MHz QPSK	RB1#0	17.81	18.11	18.05	15.96	33
	RB1#50	17.93	<b>18.16</b>	18.01		
	RB1#99	17.92	17.97	17.90		
	RB50#0	17.14	17.20	17.31		
	RB50#50	17.07	17.20	17.16		
	RB100#0	17.09	17.19	17.22		
20MHz 16QAM	RB1#0	17.45	17.42	17.33	15.44	33
	RB1#50	<b>17.64</b>	17.57	17.36		
	RB1#99	17.60	17.40	17.20		
	RB50#0	16.12	16.14	16.29		
	RB50#50	16.06	16.15	16.12		
	RB100#0	16.07	16.17	16.21		
20MHz 64QAM	RB1#0	14.83	14.90	14.99	12.83	33
	RB1#50	14.75	14.80	14.85		
	RB1#99	14.81	15.00	14.93		
	RB50#0	14.67	14.90	<b>15.03</b>		
	RB50#50	14.87	14.92	14.75		
	RB100#0	14.69	14.84	14.87		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + G<sub>T</sub>(dBi)

**Band 4 ANT0:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	18.74	18.48	18.39	14.99	30
	RB1#3	18.71	18.46	18.39		
	RB1#5	18.73	18.47	18.37		
	RB3#0	18.76	18.6	18.48		
	RB3#3	<b>18.79</b>	18.55	18.46		
	RB6#0	17.77	17.58	17.52		
1.4MHz 16QAM	RB1#0	17.78	17.63	17.64	14.01	30
	RB1#3	17.79	17.65	17.62		
	RB1#5	17.78	17.64	17.62		
	RB3#0	<b>17.81</b>	17.71	17.44		
	RB3#3	17.79	17.74	17.45		
	RB6#0	16.66	16.57	16.54		
1.4MHz 64QAM	RB1#0	17.61	17.67	<b>17.91</b>	14.11	30
	RB1#3	17.49	17.49	17.54		
	RB1#5	17.78	17.64	17.53		
	RB3#0	17.64	17.5	17.55		
	RB3#3	17.08	17.22	17.28		
	RB6#0	16.69	16.48	16.73		
3MHz QPSK	RB1#0	<b>18.77</b>	18.52	18.56	14.97	30
	RB1#8	18.75	18.51	18.48		
	RB1#14	18.75	18.53	18.48		
	RB6#0	17.77	17.6	17.48		
	RB6#9	17.76	17.54	17.51		
	RB15#0	17.76	17.55	17.48		
3MHz 16QAM	RB1#0	17.93	17.62	<b>18.01</b>	14.21	30
	RB1#8	17.88	17.58	18.00		
	RB1#14	17.87	17.61	17.93		
	RB6#0	16.79	16.5	16.54		
	RB6#9	16.84	16.47	16.54		
	RB15#0	16.74	16.58	16.54		
3MHz 64QAM	RB1#0	<b>18.16</b>	18.06	18.09	14.36	30
	RB1#8	17.88	17.79	17.80		
	RB1#14	17.57	17.51	17.54		
	RB6#0	16.48	16.5	16.61		
	RB6#9	16.41	16.41	16.38		
	RB15#0	16.43	16.43	16.31		
5MHz QPSK	RB1#0	<b>18.89</b>	18.54	18.55	<b>15.09</b>	30
	RB1#13	<b>18.89</b>	18.55	18.48		
	RB1#24	18.81	18.48	18.52		
	RB15#0	17.83	17.6	17.56		

	RB15#10	17.73	17.47	17.51		
	RB25#0	17.77	17.53	17.50		
5MHz 16QAM	RB1#0	17.67	<b>17.86</b>	17.61	14.06	30
	RB1#13	17.64	<b>17.86</b>	17.55		
	RB1#24	17.60	17.76	17.52		
	RB15#0	16.84	16.6	16.53		
	RB15#10	16.77	16.44	16.51		
	RB25#0	16.83	16.53	16.54		
5MHz 64QAM	RB1#0	17.84	17.81	<b>18.00</b>	14.20	30
	RB1#13	17.39	17.29	17.27		
	RB1#24	17.83	17.74	17.91		
	RB15#0	16.31	16.4	16.60		
	RB15#10	16.35	16.29	16.27		
	RB25#0	16.24	16.35	16.63		
10MHz QPSK	RB1#0	<b>18.76</b>	18.55	18.51	14.96	30
	RB1#25	18.71	18.57	18.50		
	RB1#49	18.73	18.45	18.38		
	RB25#0	17.76	17.7	17.38		
	RB25#25	17.79	17.44	17.52		
	RB50#0	17.77	17.59	17.46		
10MHz 16QAM	RB1#0	<b>18.32</b>	17.74	17.51	<b>14.52</b>	30
	RB1#25	18.28	17.74	17.56		
	RB1#49	18.24	17.57	17.42		
	RB25#0	16.78	16.7	16.49		
	RB25#25	16.83	16.44	16.58		
	RB50#0	16.77	16.56	16.50		
10MHz 64QAM	RB1#0	17.87	17.75	<b>17.99</b>	14.19	30
	RB1#25	17.31	17.24	17.27		
	RB1#49	17.28	17.37	17.38		
	RB25#0	16.47	16.5	16.62		
	RB25#25	16.37	16.39	16.39		
	RB50#0	16.41	16.45	16.45		
15MHz QPSK	RB1#0	<b>18.65</b>	18.59	18.50	14.85	30
	RB1#38	18.60	18.59	18.51		
	RB1#74	18.48	18.39	18.35		
	RB36#0	17.67	17.6	17.40		
	RB36#39	17.67	17.39	17.49		
	RB75#0	17.67	17.53	17.46		
15MHz 16QAM	RB1#0	<b>18.11</b>	18.01	17.64	14.31	30
	RB1#38	18.08	18.08	17.66		
	RB1#74	17.89	17.96	17.51		
	RB36#0	16.65	16.6	16.44		
	RB36#39	16.68	16.42	16.53		
	RB75#0	16.64	16.53	16.48		
15MHz 64QAM	RB1#0	<b>18.10</b>	17.97	17.88	14.30	30
	RB1#38	17.55	17.59	17.75		
	RB1#74	17.33	17.26	17.13		

	RB36#0	16.53	16.5	16.41		
	RB36#39	16.30	16.36	16.23		
	RB75#0	16.50	16.39	16.51		
20MHz QPSK	RB1#0	<b>18.68</b>	18.51	18.43	14.88	30
	RB1#50	18.64	18.57	18.60		
	RB1#99	18.33	18.43	18.29		
	RB50#0	17.65	17.7	17.53		
	RB50#50	17.61	17.36	17.60		
	RB100#0	17.58	17.57	17.57		
20MHz 16QAM	RB1#0	18.24	18.17	17.76	14.45	30
	RB1#50	<b>18.25</b>	18.23	17.90		
	RB1#99	18.10	17.97	17.61		
	RB50#0	16.57	16.7	16.49		
	RB50#50	16.60	16.41	16.59		
	RB100#0	16.58	16.54	16.55		
20MHz 64QAM	RB1#0	17.24	17.20	17.35	14.36	30
	RB1#50	18.04	<b>18.16</b>	17.99		
	RB1#99	17.72	17.65	17.73		
	RB50#0	16.49	16.4	16.47		
	RB50#50	16.12	16.30	16.30		
	RB100#0	16.32	16.38	16.48		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gr(dBi)

**Band 4 ANT4:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	16.54	16.28	16.00	12.39	30
	RB1#3	16.53	16.24	16.04		
	RB1#5	16.55	16.25	16.03		
	RB3#0	16.58	16.4	16.15		
	RB3#3	<b>16.59</b>	16.31	16.13		
	RB6#0	15.56	15.34	15.15		
1.4MHz 16QAM	RB1#0	15.57	15.36	15.23	11.42	30
	RB1#3	15.60	15.39	15.27		
	RB1#5	15.58	15.37	15.26		
	RB3#0	<b>15.62</b>	15.49	15.09		
	RB3#3	15.60	15.48	15.08		
	RB6#0	14.47	14.34	14.20		
1.4MHz 64QAM	RB1#0	13.33	13.15	13.10	9.27	30
	RB1#3	13.37	13.23	13.16		
	RB1#5	13.27	13.23	13.10		
	RB3#0	13.37	13.1	12.84		
	RB3#3	<b>13.47</b>	13.17	13.14		
	RB6#0	13.33	13.13	13.04		
3MHz QPSK	RB1#0	16.45	16.33	16.04	12.26	30
	RB1#8	<b>16.46</b>	16.27	16.05		
	RB1#14	<b>16.46</b>	16.25	16.02		
	RB6#0	15.47	15.4	15.12		
	RB6#9	15.48	15.27	15.09		
	RB15#0	15.49	15.23	15.14		
3MHz 16QAM	RB1#0	15.46	<b>15.82</b>	15.29	11.62	30
	RB1#8	15.51	15.77	15.25		
	RB1#14	15.51	15.74	15.22		
	RB6#0	14.42	14.4	14.13		
	RB6#9	14.40	14.30	14.15		
	RB15#0	14.55	14.31	14.08		
3MHz 64QAM	RB1#0	13.42	13.10	12.89	9.28	30
	RB1#8	13.32	13.04	12.97		
	RB1#14	13.36	13.36	13.17		
	RB6#0	13.18	13.1	13.11		
	RB6#9	<b>13.48</b>	12.98	12.99		
	RB15#0	13.32	13.18	13.01		
5MHz QPSK	RB1#0	16.63	16.27	16.21	12.46	30
	RB1#13	<b>16.66</b>	16.28	16.13		
	RB1#24	16.58	16.22	16.10		
	RB15#0	15.51	15.3	15.21		

	RB15#10	15.47	15.19	15.10		
	RB25#0	15.46	15.24	15.12		
5MHz 16QAM	RB1#0	15.37	<b>15.60</b>	15.23	11.4	30
	RB1#13	15.38	15.56	15.19		
	RB1#24	15.34	15.46	15.13		
	RB15#0	14.53	14.3	14.22		
	RB15#10	14.52	14.12	14.10		
	RB25#0	14.53	14.22	14.15		
5MHz 64QAM	RB1#0	13.34	12.99	13.16	9.40	30
	RB1#13	13.48	13.03	13.22		
	RB1#24	13.22	13.27	13.04		
	RB15#0	<b>13.60</b>	13.0	12.88		
	RB15#10	13.48	13.23	13.12		
	RB25#0	13.40	13.15	13.04		
10MHz QPSK	RB1#0	<b>16.49</b>	16.26	16.14	12.29	30
	RB1#25	16.44	16.26	16.11		
	RB1#49	16.40	16.13	16.01		
	RB25#0	15.40	15.4	15.08		
	RB25#25	15.44	15.17	15.08		
	RB50#0	15.46	15.29	15.10		
10MHz 16QAM	RB1#0	<b>16.02</b>	15.43	15.17	11.82	30
	RB1#25	15.93	15.43	15.16		
	RB1#49	15.88	15.27	15.06		
	RB25#0	14.44	14.4	14.20		
	RB25#25	14.50	14.17	14.17		
	RB50#0	14.43	14.27	14.08		
10MHz 64QAM	RB1#0	13.44	13.32	13.01	9.36	30
	RB1#25	13.48	13.00	13.19		
	RB1#49	<b>13.56</b>	13.20	13.23		
	RB25#0	13.36	13.3	13.27		
	RB25#25	13.48	13.08	13.09		
	RB50#0	13.40	13.20	13.07		
15MHz QPSK	RB1#0	<b>16.41</b>	16.16	16.11	12.21	30
	RB1#38	16.39	16.20	16.06		
	RB1#74	16.28	16.05	15.90		
	RB36#0	15.33	15.3	15.08		
	RB36#39	15.27	15.16	15.05		
	RB75#0	15.34	15.25	15.07		
15MHz 16QAM	RB1#0	<b>15.97</b>	15.35	15.54	11.77	30
	RB1#38	15.95	15.38	15.55		
	RB1#74	15.73	15.17	15.37		
	RB36#0	14.36	14.3	14.05		
	RB36#39	14.33	14.14	14.06		
	RB75#0	14.33	14.23	14.07		
15MHz 64QAM	RB1#0	<b>13.47</b>	13.26	13.29	9.27	30
	RB1#38	13.43	13.20	13.01		
	RB1#74	13.17	13.14	13.31		



	RB36#0	13.41	13.0	13.03		
	RB36#39	13.35	13.08	13.01		
	RB75#0	13.29	13.16	13.11		
20MHz QPSK	RB1#0	<b>16.44</b>	16.18	16.10	12.24	30
	RB1#50	16.33	16.29	16.17		
	RB1#99	16.12	16.09	15.88		
	RB50#0	15.35	15.4	15.13		
	RB50#50	15.22	15.16	15.09		
	RB100#0	15.27	15.23	15.14		
20MHz 16QAM	RB1#0	15.73	15.49	15.72	11.56	30
	RB1#50	15.66	15.51	<b>15.76</b>		
	RB1#99	15.42	15.30	15.55		
	RB50#0	14.34	14.3	14.10		
	RB50#50	14.21	14.08	14.08		
	RB100#0	14.28	14.21	14.11		
20MHz 64QAM	RB1#0	13.11	12.99	13.14	9.19	30
	RB1#50	13.23	13.33	13.10		
	RB1#99	13.11	13.35	13.20		
	RB50#0	<b>13.39</b>	13.3	13.22		
	RB50#50	13.15	13.25	13.00		
	RB100#0	13.23	13.17	13.12		
Note: EIRP=Conducted Power(dBm) - Lc(dB) + G <sub>T</sub> (dBi)						

**Band 5 ANT0:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	22.87	22.81	22.79	13.45	38.45
	RB1#3	22.87	22.83	22.71		
	RB1#5	22.88	22.81	22.78		
	RB3#0	22.99	22.95	22.85		
	RB3#3	<b>23.00</b>	22.93	22.91		
	RB6#0	21.96	21.91	21.96		
1.4MHz 16QAM	RB1#0	21.95	21.99	22.03	12.54	38.45
	RB1#3	21.97	22.04	22.02		
	RB1#5	21.97	22.00	22.04		
	RB3#0	22.01	<b>22.09</b>	21.84		
	RB3#3	21.98	<b>22.09</b>	21.85		
	RB6#0	20.87	20.92	21.01		
1.4MHz 64QAM	RB1#0	21.34	21.17	21.24	11.82	38.45
	RB1#3	21.23	21.34	<b>21.37</b>		
	RB1#5	21.17	20.98	21.13		
	RB3#0	21.02	21.03	21.06		
	RB3#3	20.99	20.93	20.96		
	RB6#0	20.01	20.01	19.94		
3MHz QPSK	RB1#0	<b>22.97</b>	22.82	22.80	13.42	38.45
	RB1#8	22.91	22.83	22.82		
	RB1#14	22.90	22.80	22.84		
	RB6#0	22.00	21.95	21.92		
	RB6#9	21.98	21.93	21.92		
	RB15#0	21.95	21.92	21.92		
3MHz 16QAM	RB1#0	<b>22.45</b>	22.06	21.88	<b>12.90</b>	38.45
	RB1#8	22.43	22.04	21.90		
	RB1#14	22.43	22.03	21.88		
	RB6#0	21.02	20.98	20.83		
	RB6#9	21.02	20.97	20.80		
	RB15#0	21.02	20.90	20.95		
3MHz 64QAM	RB1#0	20.88	20.98	20.97	12.10	38.45
	RB1#8	<b>21.65</b>	21.46	21.52		
	RB1#14	21.23	21.21	21.31		
	RB6#0	20.14	19.92	20.01		
	RB6#9	19.94	19.97	19.97		
	RB15#0	20.01	20.06	20.07		
5MHz QPSK	RB1#0	23.00	<b>23.20</b>	22.87	<b>13.65</b>	38.45
	RB1#13	22.99	23.19	22.86		
	RB1#24	22.99	23.18	22.88		
	RB15#0	22.04	21.93	21.92		
	RB15#10	22.00	21.94	21.89		
	RB25#0	21.97	21.93	21.86		

5MHz 16QAM	RB1#0	22.06	21.85	<b>22.16</b>	12.61	38.45
	RB1#13	22.01	21.84	22.15		
	RB1#24	22.01	21.84	22.13		
	RB15#0	21.01	20.97	20.93		
	RB15#10	20.98	20.99	20.87		
	RB25#0	20.99	21.01	20.88		
5MHz 64QAM	RB1#0	<b>21.37</b>	21.19	21.16	11.82	38.45
	RB1#13	21.36	21.18	21.29		
	RB1#24	21.19	21.28	21.33		
	RB15#0	20.06	20.11	20.11		
	RB15#10	20.11	20.12	20.12		
	RB25#0	20.29	20.10	20.09		
10MHz QPSK	RB1#0	22.96	<b>23.03</b>	22.90	13.48	38.45
	RB1#25	23.00	23.01	22.87		
	RB1#49	22.86	22.89	22.83		
	RB25#0	21.98	21.90	21.90		
	RB25#25	21.89	21.95	21.87		
	RB50#0	21.97	21.96	21.93		
10MHz 16QAM	RB1#0	21.98	22.38	22.07	12.84	38.45
	RB1#25	22.01	<b>22.39</b>	22.02		
	RB1#49	21.88	22.35	22.03		
	RB25#0	21.07	20.98	20.91		
	RB25#25	20.99	21.02	20.87		
	RB50#0	20.96	20.94	20.89		
10MHz 64QAM	RB1#0	<b>21.32</b>	21.21	21.23	11.77	38.45
	RB1#25	21.11	21.15	21.00		
	RB1#49	21.05	21.04	20.87		
	RB25#0	19.96	20.04	20.10		
	RB25#25	20.14	20.13	20.17		
	RB50#0	20.26	20.11	20.29		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + G<sub>T</sub>(dBd)

G<sub>T</sub>(dBd)=G<sub>T</sub>(dBi)-2.15

**Band 5 ANT4:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	21.76	21.62	21.44	13.58	38.45
	RB1#3	21.74	21.61	21.49		
	RB1#5	21.73	21.61	21.54		
	RB3#0	<b>21.83</b>	21.71	21.65		
	RB3#3	21.81	21.68	21.66		
	RB6#0	20.85	20.74	20.62		
1.4MHz 16QAM	RB1#0	20.80	20.84	20.65	12.72	38.45
	RB1#3	20.89	20.84	20.65		
	RB1#5	20.88	20.82	20.67		
	RB3#0	20.96	20.68	20.63		
	RB3#3	<b>20.97</b>	20.63	20.64		
	RB6#0	19.82	19.78	19.55		
1.4MHz 64QAM	RB1#0	19.00	18.41	18.40	10.77	38.45
	RB1#3	<b>19.02</b>	18.71	18.66		
	RB1#5	18.68	18.61	18.50		
	RB3#0	18.96	18.43	18.64		
	RB3#3	18.88	18.41	18.58		
	RB6#0	18.86	18.61	18.50		
3MHz QPSK	RB1#0	<b>21.87</b>	21.59	21.49	13.62	38.45
	RB1#8	21.80	21.62	21.50		
	RB1#14	21.81	21.60	21.53		
	RB6#0	20.87	20.75	20.63		
	RB6#9	20.82	20.70	20.62		
	RB15#0	20.82	20.70	20.61		
3MHz 16QAM	RB1#0	<b>21.33</b>	20.84	20.61	13.08	38.45
	RB1#8	21.27	20.81	20.63		
	RB1#14	21.22	20.78	20.62		
	RB6#0	19.89	19.74	19.51		
	RB6#9	19.85	19.71	19.51		
	RB15#0	19.87	19.67	19.67		
3MHz 64QAM	RB1#0	<b>19.06</b>	18.70	18.55	10.81	38.45
	RB1#8	18.94	18.52	18.65		
	RB1#14	18.94	18.78	18.33		
	RB6#0	18.90	18.56	18.71		
	RB6#9	18.74	18.68	18.73		
	RB15#0	18.88	18.66	18.53		
5MHz QPSK	RB1#0	<b>22.00</b>	21.67	21.60	13.75	38.45
	RB1#13	21.97	21.67	21.62		
	RB1#24	21.96	21.66	21.62		
	RB15#0	20.86	20.68	20.68		
	RB15#10	20.81	20.68	20.61		
	RB25#0	20.78	20.68	20.58		

5MHz 16QAM	RB1#0	20.73	<b>20.95</b>	20.63	12.70	38.45
	RB1#13	20.67	20.94	20.66		
	RB1#24	20.70	20.93	20.62		
	RB15#0	19.89	19.67	19.68		
	RB15#10	19.84	19.67	19.61		
	RB25#0	19.87	19.72	19.61		
5MHz 64QAM	RB1#0	18.77	18.77	18.69	10.60	38.45
	RB1#13	18.79	18.61	18.73		
	RB1#24	18.65	18.79	18.73		
	RB15#0	18.75	18.67	18.59		
	RB15#10	18.77	18.79	18.71		
	RB25#0	<b>18.85</b>	18.69	18.55		
10MHz QPSK	RB1#0	<b>21.82</b>	21.81	21.76	13.57	38.45
	RB1#25	21.81	<b>21.82</b>	21.63		
	RB1#49	21.66	21.69	21.53		
	RB25#0	20.81	20.76	20.75		
	RB25#25	20.73	20.79	20.62		
	RB50#0	20.81	20.80	20.71		
10MHz 16QAM	RB1#0	20.82	20.98	20.79	12.99	38.45
	RB1#25	20.82	20.98	20.68		
	RB1#49	<b>21.24</b>	20.82	20.60		
	RB25#0	20.05	19.80	19.85		
	RB25#25	19.92	19.82	19.71		
	RB50#0	19.96	19.81	19.72		
10MHz 64QAM	RB1#0	18.72	18.71	18.55	10.73	38.45
	RB1#25	<b>18.98</b>	18.41	18.53		
	RB1#49	18.64	18.67	18.67		
	RB25#0	18.90	18.59	18.77		
	RB25#25	18.70	18.65	18.61		
	RB50#0	18.84	18.61	18.57		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + G<sub>T</sub>(dBd)

G<sub>T</sub>(dBd)=G<sub>T</sub>(dBi)-2.15

**Band 7**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	22.04	22.03	21.94	18.55	33
	RB1#13	21.99	<b>22.05</b>	21.93		
	RB1#24	21.93	22.03	21.97		
	RB15#0	21.24	21.1	21.15		
	RB15#10	21.16	21.06	21.11		
	RB25#0	21.16	21.08	21.11		
5MHz 16QAM	RB1#0	21.13	20.99	21.38	17.9	33
	RB1#13	21.2	21	<b>21.4</b>		
	RB1#24	21.15	20.98	21.39		
	RB15#0	20.24	20.09	20.09		
	RB15#10	20.18	20.09	20.07		
	RB25#0	20.21	20.09	20.11		
5MHz 64QAM	RB1#0	21.33	21.48	21.56	18.09	33
	RB1#13	21.55	21.45	21.43		
	RB1#24	21.59	21.54	<b>21.59</b>		
	RB15#0	20.45	20.23	20.32		
	RB15#10	20.25	20.17	20.13		
	RB25#0	20.07	20.16	20.20		
10MHz QPSK	RB1#0	<b>22.08</b>	21.85	21.91	<b>18.58</b>	33
	RB1#25	21.96	21.94	21.92		
	RB1#49	21.94	21.86	21.92		
	RB25#0	21.13	20.99	21.13		
	RB25#25	21.08	21.06	21.11		
	RB50#0	21.18	21.1	21.13		
10MHz 16QAM	RB1#0	21.59	21.18	21.08	18.13	33
	RB1#25	21.6	21.23	21.1		
	RB1#49	<b>21.63</b>	21.14	21.06		
	RB25#0	20.21	20.05	20.25		
	RB25#25	20.16	20.09	20.18		
	RB50#0	20.13	20.02	20.13		
10MHz 64QAM	RB1#0	21.20	21.26	21.32	18.04	33
	RB1#25	21.51	21.49	<b>21.54</b>		
	RB1#49	21.25	21.11	21.08		
	RB25#0	20.21	20.12	20.20		
	RB25#25	20.22	20.17	20.22		
	RB50#0	20.26	20.21	20.14		
15MHz QPSK	RB1#0	<b>21.96</b>	21.9	21.76	18.46	33
	RB1#38	21.94	21.87	21.82		
	RB1#74	21.84	21.77	21.82		
	RB36#0	21.02	21.02	21.13		
	RB36#39	21.06	21.01	21.03		
	RB75#0	21.05	21.05	21.13		

15MHz 16QAM	RB1#0	<b>21.66</b>	21.19	21.34	18.16	33
	RB1#38	21.64	21.19	21.42		
	RB1#74	21.61	21.1	21.41		
	RB36#0	20.06	20.05	20.09		
	RB36#39	20.09	20.03	20		
	RB75#0	20.13	20.03	20.07		
15MHz 64QAM	RB1#0	21.44	21.29	21.40	<b>18.52</b>	33
	RB1#38	<b>22.02</b>	21.84	21.89		
	RB1#74	21.14	21.15	21.34		
	RB36#0	20.01	20.11	20.14		
	RB36#39	20.11	20.19	20.13		
	RB75#0	20.23	20.20	20.06		
20MHz QPSK	RB1#0	21.94	21.86	21.8	18.45	33
	RB1#50	21.93	<b>21.95</b>	21.89		
	RB1#99	21.75	21.79	21.78		
	RB50#0	21.1	21.07	21.11		
	RB50#50	21.04	21.09	21.08		
	RB100#0	21.09	21.07	21.13		
20MHz 16QAM	RB1#0	21.42	21.23	21.54	18.12	33
	RB1#50	21.4	21.32	<b>21.62</b>		
	RB1#99	21.2	21.17	21.59		
	RB50#0	20.05	20	20.13		
	RB50#50	19.94	20.09	20.08		
	RB100#0	20.04	20.07	20.09		
20MHz 64QAM	RB1#0	20.93	20.91	21.08	18.13	33
	RB1#50	21.20	21.09	21.19		
	RB1#99	21.48	21.40	<b>21.63</b>		
	RB50#0	20.20	20.13	20.12		
	RB50#50	20.14	20.20	20.33		
	RB100#0	20.15	20.21	20.14		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gr(dBi)

**Band 12 ANT0:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	22.72	22.73	22.72	14.18	34.77
	RB1#3	22.66	22.76	22.71		
	RB1#5	22.74	22.70	22.69		
	RB3#0	22.80	22.77	22.80		
	RB3#3	22.77	22.78	<b>22.83</b>		
	RB6#0	21.74	21.80	21.76		
1.4MHz 16QAM	RB1#0	21.79	21.91	21.79	13.30	34.77
	RB1#3	21.83	<b>21.95</b>	21.78		
	RB1#5	21.78	21.92	21.80		
	RB3#0	21.91	21.74	21.83		
	RB3#3	21.92	21.79	21.83		
	RB6#0	20.76	20.84	20.72		
1.4MHz 64QAM	RB1#0	21.41	21.46	21.41	12.91	34.77
	RB1#3	21.49	21.52	<b>21.56</b>		
	RB1#5	21.06	21.14	21.16		
	RB3#0	21.32	21.25	21.27		
	RB3#3	21.29	21.24	21.30		
	RB6#0	20.70	20.44	20.48		
3MHz QPSK	RB1#0	22.70	22.76	<b>22.88</b>	14.23	34.77
	RB1#8	22.74	22.76	22.76		
	RB1#14	22.72	22.80	22.74		
	RB6#0	21.77	21.77	21.87		
	RB6#9	21.82	21.80	21.78		
	RB15#0	21.77	21.79	21.80		
3MHz 16QAM	RB1#0	21.86	21.80	<b>22.30</b>	13.65	34.77
	RB1#8	21.87	21.82	22.27		
	RB1#14	21.87	21.91	22.20		
	RB6#0	20.76	20.75	20.90		
	RB6#9	20.87	20.75	20.84		
	RB15#0	20.76	20.85	20.88		
3MHz 64QAM	RB1#0	21.37	21.34	21.38	13.33	34.77
	RB1#8	21.80	21.78	<b>21.98</b>		
	RB1#14	21.24	21.38	21.39		
	RB6#0	20.31	20.06	20.09		
	RB6#9	20.35	20.21	20.39		
	RB15#0	20.16	20.07	19.95		
5MHz QPSK	RB1#0	22.89	22.96	22.82	<b>14.35</b>	34.77
	RB1#13	22.84	<b>23.00</b>	22.83		
	RB1#24	22.83	22.95	22.78		
	RB15#0	21.78	21.83	21.81		
	RB15#10	21.81	21.82	21.79		



	RB25#0	21.74	21.80	21.82		
5MHz 16QAM	RB1#0	21.87	21.68	22.10	13.46	34.77
	RB1#13	21.86	21.71	<b>22.11</b>		
	RB1#24	21.89	21.72	22.03		
	RB15#0	20.75	20.86	20.84		
	RB15#10	20.81	20.84	20.80		
	RB25#0	20.80	20.88	20.84		
5MHz 64QAM	RB1#0	21.44	21.41	21.51	13.13	34.77
	RB1#13	21.63	<b>21.78</b>	21.70		
	RB1#24	21.43	21.39	21.45		
	RB15#0	20.16	20.22	20.39		
	RB15#10	20.06	20.06	20.12		
10MHz QPSK	RB25#0	20.27	20.22	20.23	14.20	34.77
	RB1#0	22.74	22.76	22.76		
	RB1#25	<b>22.85</b>	22.84	<b>22.85</b>		
	RB1#49	22.84	22.77	22.73		
	RB25#0	21.73	21.80	21.79		
	RB25#25	21.86	21.81	21.83		
10MHz 16QAM	RB50#0	21.82	21.85	21.83	<b>13.70</b>	34.77
	RB1#0	22.24	21.90	21.77		
	RB1#25	<b>22.35</b>	21.97	21.83		
	RB1#49	22.32	21.93	21.73		
	RB25#0	20.75	20.84	20.91		
	RB25#25	20.92	20.86	20.90		
10MHz 64QAM	RB50#0	20.82	20.81	20.84	12.82	34.77
	RB1#0	21.47	21.36	21.28		
	RB1#25	21.44	21.20	21.07		
	RB1#49	21.27	21.26	<b>21.47</b>		
	RB25#0	20.31	20.18	20.32		
	RB25#25	20.24	20.20	20.29		
	RB50#0	20.35	20.18	20.31		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + Gr(dBd)

Gr(dBd)=Gr(dBi)-2.15

**Band 12 ANT4:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	22.47	22.54	22.44	12.57	34.77
	RB1#3	22.46	22.59	22.37		
	RB1#5	22.49	22.53	22.36		
	RB3#0	22.55	22.67	22.55		
	RB3#3	22.56	<b>22.72</b>	22.52		
	RB6#0	21.63	21.63	21.48		
1.4MHz 16QAM	RB1#0	21.69	21.66	21.60	11.58	34.77
	RB1#3	21.72	21.71	21.61		
	RB1#5	<b>21.73</b>	21.70	21.58		
	RB3#0	21.54	21.69	21.69		
	RB3#3	21.54	21.71	21.69		
	RB6#0	20.68	20.57	20.51		
1.4MHz 64QAM	RB1#0	19.54	19.64	19.76	9.85	34.77
	RB1#3	19.68	19.46	<b>20.00</b>		
	RB1#5	19.68	19.62	19.78		
	RB3#0	19.42	19.62	19.82		
	RB3#3	19.52	19.60	19.90		
	RB6#0	19.54	19.66	19.84		
3MHz QPSK	RB1#0	<b>22.71</b>	22.55	22.58	12.56	34.77
	RB1#8	22.68	22.57	22.46		
	RB1#14	22.65	22.54	22.42		
	RB6#0	21.62	21.69	21.67		
	RB6#9	21.69	21.69	21.56		
	RB15#0	21.63	21.65	21.60		
3MHz 16QAM	RB1#0	22.09	21.78	21.64	12.01	34.77
	RB1#8	<b>22.16</b>	21.78	21.55		
	RB1#14	22.11	21.79	21.51		
	RB6#0	20.64	20.68	20.54		
	RB6#9	20.68	20.73	20.46		
	RB15#0	20.69	20.66	20.65		
3MHz 64QAM	RB1#0	19.45	19.78	19.71	9.72	34.77
	RB1#8	19.65	19.48	19.61		
	RB1#14	19.49	19.78	<b>19.87</b>		
	RB6#0	19.39	19.48	19.81		
	RB6#9	19.47	19.58	19.57		
	RB15#0	19.57	19.68	19.71		
5MHz QPSK	RB1#0	22.89	22.58	22.70	12.75	34.77
	RB1#13	<b>22.90</b>	22.60	22.65		
	RB1#24	22.87	22.62	22.49		
	RB15#0	21.70	21.63	21.72		
	RB15#10	21.60	21.72	21.55		

	RB25#0	21.63	21.64	21.63		
5MHz 16QAM	RB1#0	21.52	21.89	21.69	11.76	34.77
	RB1#13	21.57	<b>21.91</b>	21.64		
	RB1#24	21.58	21.88	21.54		
	RB15#0	20.72	20.63	20.73		
	RB15#10	20.62	20.70	20.59		
	RB25#0	20.69	20.68	20.66		
5MHz 64QAM	RB1#0	19.56	19.60	19.90	9.85	34.77
	RB1#13	19.46	19.82	<b>20.00</b>		
	RB1#24	19.48	19.74	19.84		
	RB15#0	19.60	19.78	19.84		
	RB15#10	19.42	19.70	19.92		
	RB25#0	19.60	19.80	19.82		
10MHz QPSK	RB1#0	22.67	22.59	22.57	12.61	34.77
	RB1#25	<b>22.76</b>	22.66	22.63		
	RB1#49	22.72	22.55	22.42		
	RB25#0	21.68	21.56	21.57		
	RB25#25	21.74	21.66	21.52		
	RB50#0	21.75	21.67	21.56		
10MHz 16QAM	RB1#0	22.05	21.74	21.58	11.98	34.77
	RB1#25	<b>22.13</b>	21.80	21.65		
	RB1#49	22.08	21.70	21.48		
	RB25#0	20.73	20.65	20.65		
	RB25#25	20.82	20.70	20.63		
	RB50#0	20.74	20.67	20.54		
10MHz 64QAM	RB1#0	19.70	19.69	19.55	9.78	34.77
	RB1#25	19.54	19.73	19.53		
	RB1#49	19.54	<b>19.93</b>	19.71		
	RB25#0	19.88	<b>19.93</b>	19.47		
	RB25#25	19.82	19.81	19.57		
	RB50#0	19.72	19.73	19.61		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + Gr(dBd)

Gr(dBd)=Gr(dBi)-2.15

**Band 17 ANT0:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	22.88	22.69	22.78	<b>14.26</b>	34.77
	RB1#13	22.90	22.74	22.77		
	RB1#24	<b>22.91</b>	22.72	22.72		
	RB15#0	21.78	21.74	21.78		
	RB15#10	21.75	21.75	21.74		
	RB25#0	21.78	21.74	21.72		
5MHz 16QAM	RB1#0	21.63	22.02	21.81	13.38	34.77
	RB1#13	21.63	<b>22.03</b>	21.78		
	RB1#24	21.68	21.98	21.75		
	RB15#0	20.81	20.72	20.78		
	RB15#10	20.77	20.73	20.73		
	RB25#0	20.83	20.75	20.78		
5MHz 64QAM	RB1#0	21.29	21.37	<b>21.37</b>	12.72	34.77
	RB1#13	21.16	21.20	21.14		
	RB1#24	21.33	21.26	21.24		
	RB15#0	20.08	20.09	20.20		
	RB15#10	20.23	20.19	20.34		
	RB25#0	20.43	20.14	20.09		
10MHz QPSK	RB1#0	22.69	22.71	22.71	14.13	34.77
	RB1#25	22.75	<b>22.78</b>	22.73		
	RB1#49	22.68	22.66	22.61		
	RB25#0	21.71	21.73	21.66		
	RB25#25	21.79	21.70	21.71		
	RB50#0	21.75	21.74	21.73		
10MHz 16QAM	RB1#0	21.72	22.18	21.84	<b>13.63</b>	34.77
	RB1#25	21.72	<b>22.28</b>	21.86		
	RB1#49	21.65	22.16	21.78		
	RB25#0	20.78	20.75	20.71		
	RB25#25	20.87	20.77	20.72		
	RB50#0	20.72	20.73	20.72		
10MHz 64QAM	RB1#0	<b>21.76</b>	21.64	21.61	13.11	34.77
	RB1#25	21.10	21.09	20.96		
	RB1#49	21.67	21.54	21.52		
	RB25#0	20.06	20.06	20.11		
	RB25#25	19.96	20.14	20.09		
	RB50#0	19.92	20.03	20.16		

Note:  
 ERP= Conducted Power(dBm) - Lc(dB) + Gr(dBd)  
 Gr(dBd)=Gr(dBi)-2.15

**Band 17 ANT4:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	22.60	22.80	22.60	12.61	34.77
	RB1#13	22.59	<b>22.86</b>	22.51		
	RB1#24	22.62	22.74	22.38		
	RB15#0	21.61	21.57	21.65		
	RB15#10	21.68	21.60	21.52		
	RB25#0	21.63	21.57	21.60		
5MHz 16QAM	RB1#0	21.66	21.52	<b>21.88</b>	11.63	34.77
	RB1#13	21.63	21.51	21.78		
	RB1#24	21.66	21.52	21.67		
	RB15#0	20.63	20.63	20.66		
	RB15#10	20.69	20.63	20.52		
	RB25#0	20.68	20.64	20.61		
5MHz 64QAM	RB1#0	19.84	19.62	19.91	9.77	34.77
	RB1#13	19.88	19.70	19.83		
	RB1#24	19.80	19.94	19.77		
	RB15#0	19.88	<b>20.02</b>	19.83		
	RB15#10	19.94	19.96	19.81		
	RB25#0	19.74	19.82	19.77		
10MHz QPSK	RB1#0	22.65	22.65	22.56	12.46	34.77
	RB1#25	22.66	<b>22.71</b>	22.58		
	RB1#49	22.53	22.53	22.39		
	RB25#0	21.54	21.48	21.47		
	RB25#25	21.62	21.50	21.49		
	RB50#0	21.57	21.51	21.47		
10MHz 16QAM	RB1#0	21.57	22.04	21.76	11.87	34.77
	RB1#25	21.61	<b>22.12</b>	21.75		
	RB1#49	21.53	21.92	21.58		
	RB25#0	20.60	20.55	20.54		
	RB25#25	20.69	20.55	20.53		
	RB50#0	20.55	20.50	20.50		
10MHz 64QAM	RB1#0	17.48	19.68	19.68	9.55	34.77
	RB1#25	17.62	19.48	19.80		
	RB1#49	17.64	19.66	19.64		
	RB25#0	17.66	19.64	19.62		
	RB25#25	17.56	19.48	19.74		
	RB50#0	17.64	19.58	19.60		

Note:  
 ERP= Conducted Power(dBm) - Lc(dB) + Gr(dBd)  
 Gr(dBd)=Gr(dBi)-2.15

**Band 38**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	19.29	19.36	<b>19.47</b>	15.87	33
	RB1#13	19.28	19.35	19.41		
	RB1#24	19.29	19.36	<b>19.47</b>		
	RB15#0	18.48	18.48	18.53		
	RB15#10	18.39	18.39	18.44		
	RB25#0	18.47	18.45	18.45		
5MHz 16QAM	RB1#0	18.5	18.7	18.56	15.15	33
	RB1#13	18.47	18.71	18.47		
	RB1#24	18.46	<b>18.75</b>	18.51		
	RB15#0	17.46	17.5	17.45		
	RB15#10	17.38	17.46	17.39		
	RB25#0	17.48	17.42	17.5		
5MHz 64QAM	RB1#0	<b>18.54</b>	18.39	18.49	14.94	33
	RB1#13	18.41	18.31	18.33		
	RB1#24	18.40	18.36	18.32		
	RB15#0	17.65	17.45	17.43		
	RB15#10	17.50	17.42	17.53		
	RB25#0	17.82	17.59	17.77		
10MHz QPSK	RB1#0	19.33	19.36	19.39	15.85	33
	RB1#25	19.36	19.37	<b>19.45</b>		
	RB1#49	19.35	19.30	19.44		
	RB25#0	18.44	18.48	18.47		
	RB25#25	18.45	18.39	18.45		
	RB50#0	18.47	18.45	18.50		
10MHz 16QAM	RB1#0	18.60	18.67	18.42	15.09	33
	RB1#25	18.60	<b>18.69</b>	18.48		
	RB1#49	18.61	18.68	18.47		
	RB25#0	17.48	17.47	17.54		
	RB25#25	17.52	17.40	17.52		
	RB50#0	17.47	17.43	17.49		
10MHz 64QAM	RB1#0	18.49	18.37	18.32	14.91	33
	RB1#25	18.41	18.41	18.41		
	RB1#49	18.23	18.32	<b>18.51</b>		
	RB25#0	17.69	17.62	17.66		
	RB25#25	17.48	17.51	17.48		
	RB50#0	17.49	17.47	17.39		
15MHz QPSK	RB1#0	19.22	19.23	<b>19.35</b>	15.75	33
	RB1#38	19.29	<b>19.35</b>	<b>19.35</b>		
	RB1#74	19.25	19.27	19.33		
	RB36#0	18.42	18.45	18.51		
	RB36#39	18.46	18.39	18.42		

	RB75#0	18.39	18.46	18.48		
15MHz 16QAM	RB1#0	18.62	18.31	<b>18.73</b>	15.13	33
	RB1#38	18.66	18.45	18.70		
	RB1#74	18.68	18.40	18.71		
	RB36#0	17.42	17.38	17.58		
	RB36#39	17.43	17.38	17.50		
	RB75#0	17.37	17.41	17.47		
15MHz 64QAM	RB1#0	18.50	18.31	18.46	14.93	33
	RB1#38	18.30	18.32	18.23		
	RB1#74	<b>18.53</b>	18.29	18.31		
	RB36#0	17.42	17.47	17.69		
	RB36#39	17.49	17.40	17.43		
	RB75#0	17.36	17.47	17.70		
20MHz QPSK	RB1#0	19.25	19.36	19.27	15.83	33
	RB1#50	19.37	<b>19.43</b>	19.35		
	RB1#99	19.20	19.35	19.27		
	RB50#0	18.50	18.49	18.53		
	RB50#50	18.39	18.39	18.40		
	RB100#0	18.46	18.45	18.50		
20MHz 16QAM	RB1#0	18.44	18.70	18.49	<b>15.21</b>	33
	RB1#50	18.59	<b>18.81</b>	18.57		
	RB1#99	18.37	18.69	18.47		
	RB50#0	17.49	17.51	17.50		
	RB50#50	17.40	17.38	17.40		
	RB100#0	17.42	17.45	17.45		
20MHz 64QAM	RB1#0	18.23	18.37	18.25	14.93	33
	RB1#50	18.32	18.30	18.20		
	RB1#99	<b>18.53</b>	18.19	18.42		
	RB50#0	17.69	17.52	17.43		
	RB50#50	17.44	17.34	17.56		
	RB100#0	17.45	17.52	17.58		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + G<sub>T</sub>(dBi)

**LTE Band 40 Lower:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	<b>22.74</b>	22.62	22.66	<b>18.44</b>	24
	RB1#13	22.68	22.59	22.6		
	RB1#24	22.7	22.58	22.63		
	RB15#0	21.69	21.64	21.65		
	RB15#10	21.57	21.59	21.53		
	RB25#0	21.6	21.6	21.63		
5MHz 16QAM	RB1#0	21.68	21.68	<b>21.91</b>	<b>17.61</b>	24
	RB1#13	21.6	21.64	21.81		
	RB1#24	21.61	21.62	21.87		
	RB15#0	20.78	20.81	20.85		
	RB15#10	20.62	20.73	20.72		
	RB25#0	20.77	20.79	20.74		
5MHz 64QAM	RB1#0	21.28	21.23	<b>21.50</b>	17.20	24
	RB1#13	21.29	21.20	21.26		
	RB1#24	21.24	21.16	21.28		
	RB15#0	20.42	20.31	20.28		
	RB15#10	20.24	20.29	20.44		
	RB25#0	20.70	20.46	20.63		
10MHz QPSK	RB1#0	/	22.65	/	18.39	24
	RB1#25	/	<b>22.69</b>	/		
	RB1#49	/	22.59	/		
	RB25#0	/	21.62	/		
	RB25#25	/	21.56	/		
	RB50#0	/	21.57	/		
10MHz 16QAM	RB1#0	/	21.56	/	17.27	24
	RB1#25	/	<b>21.57</b>	/		
	RB1#49	/	21.48	/		
	RB25#0	/	20.81	/		
	RB25#25	/	20.77	/		
	RB50#0	/	20.74	/		
10MHz 64QAM	RB1#0	/	<b>21.25</b>	/	16.95	24
	RB1#25	/	21.22	/		
	RB1#49	/	21.15	/		
	RB25#0	/	20.47	/		
	RB25#25	/	20.44	/		
	RB50#0	/	20.33	/		



**LTE Band 40 Upper:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	22.81	22.53	<b>23.21</b>	18.91	24
	RB1#13	21.87	22.92	23.03		
	RB1#24	22.44	23.09	22.51		
	RB15#0	22.08	21.58	22.04		
	RB15#10	21.46	20.96	22.15		
	RB25#0	22.13	21.51	21.77		
5MHz 16QAM	RB1#0	21.92	<b>22.30</b>	21.72	<b>18.00</b>	24
	RB1#13	21.56	21.54	21.98		
	RB1#24	21.36	21.22	21.96		
	RB15#0	20.77	20.18	20.89		
	RB15#10	20.65	21.45	20.43		
	RB25#0	20.82	21.15	20.95		
5MHz 64QAM	RB1#0	21.40	21.44	21.59	17.81	24
	RB1#13	20.62	21.33	21.39		
	RB1#24	21.80	<b>22.11</b>	21.31		
	RB15#0	19.79	19.85	20.56		
	RB15#10	20.55	20.12	20.44		
	RB25#0	20.55	20.19	20.67		
10MHz QPSK	RB1#0	/	<b>23.28</b>	/	<b>18.98</b>	24
	RB1#25	/	22.92	/		
	RB1#49	/	23.05	/		
	RB25#0	/	21.55	/		
	RB25#25	/	21.18	/		
	RB50#0	/	22.54	/		
10MHz 16QAM	RB1#0	/	21.88	/	17.77	24
	RB1#25	/	<b>22.07</b>	/		
	RB1#49	/	21.63	/		
	RB25#0	/	20.98	/		
	RB25#25	/	21.66	/		
	RB50#0	/	20.94	/		
10MHz 64QAM	RB1#0	/	20.46	/	16.76	24
	RB1#25	/	<b>21.06</b>	/		
	RB1#49	/	20.19	/		
	RB25#0	/	19.33	/		
	RB25#25	/	19.18	/		
	RB50#0	/	19.94	/		

**Band 41**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	19.28	18.95	19.40	<b>20.19</b>	33
	RB1#13	19.27	18.93	<b>19.49</b>		
	RB1#24	19.26	18.94	19.44		
	RB15#0	19.24	18.92	19.45		
	RB15#10	19.18	18.84	19.40		
	RB25#0	19.22	18.88	19.44		
5MHz 16QAM	RB1#0	19.30	19.03	19.68	<b>20.46</b>	33
	RB1#13	19.27	19.02	19.72		
	RB1#24	19.25	18.98	<b>19.76</b>		
	RB15#0	19.22	18.96	19.49		
	RB15#10	19.15	18.88	19.45		
	RB25#0	19.25	18.93	19.42		
5MHz 64QAM	RB1#0	18.47	18.50	18.51	19.22	33
	RB1#13	18.49	18.45	18.47		
	RB1#24	18.42	18.46	<b>18.52</b>		
	RB15#0	17.64	17.52	17.60		
	RB15#10	17.70	17.51	17.52		
	RB25#0	17.86	17.62	17.55		
10MHz QPSK	RB1#0	19.22	18.98	19.36	20.16	33
	RB1#25	19.28	18.98	19.45		
	RB1#49	19.18	18.91	<b>19.46</b>		
	RB25#0	19.16	18.90	19.32		
	RB25#25	19.18	18.88	19.37		
	RB50#0	19.24	18.94	19.36		
10MHz 16QAM	RB1#0	19.47	18.89	19.44	20.24	33
	RB1#25	19.48	18.86	19.52		
	RB1#49	19.43	18.83	<b>19.54</b>		
	RB25#0	19.21	18.97	19.42		
	RB25#25	19.21	18.91	19.42		
	RB50#0	19.22	18.88	19.38		
10MHz 64QAM	RB1#0	18.63	18.46	18.74	19.45	33
	RB1#25	<b>18.75</b>	18.59	18.66		
	RB1#49	18.51	18.41	18.44		
	RB25#0	17.68	17.71	17.85		
	RB25#25	17.56	17.66	17.80		
	RB50#0	17.86	17.60	17.73		
15MHz QPSK	RB1#0	19.11	18.92	19.21	20.02	33
	RB1#38	19.19	18.91	19.24		
	RB1#74	19.10	18.83	<b>19.32</b>		
	RB36#0	19.16	18.85	19.24		
	RB36#39	19.14	18.82	19.29		

	RB75#0	19.17	18.85	19.31		
15MHz 16QAM	RB1#0	19.38	18.85	19.45	20.27	33
	RB1#38	19.43	18.86	19.53		
	RB1#74	19.35	18.77	<b>19.57</b>		
	RB36#0	19.13	18.80	19.36		
	RB36#39	19.14	18.83	19.41		
	RB75#0	19.11	18.86	19.31		
15MHz 64QAM	RB1#0	18.35	18.50	18.58	19.33	33
	RB1#38	<b>18.63</b>	18.45	18.52		
	RB1#74	18.51	18.39	18.53		
	RB36#0	17.48	17.67	17.51		
	RB36#39	17.52	17.54	17.48		
20MHz QPSK	RB1#0	19.18	18.85	19.24	20.05	33
	RB1#50	19.27	18.92	<b>19.35</b>		
	RB1#99	19.03	18.74	19.30		
	RB50#0	19.19	18.85	19.21		
	RB50#50	19.25	18.85	19.26		
	RB100#0	19.24	18.84	19.22		
20MHz 16QAM	RB1#0	19.28	18.86	19.45	20.28	33
	RB1#50	19.34	18.90	19.51		
	RB1#99	19.13	18.73	<b>19.58</b>		
	RB50#0	19.17	18.88	19.25		
	RB50#50	19.29	18.92	19.31		
	RB100#0	19.23	18.90	19.22		
20MHz 64QAM	RB1#0	<b>18.59</b>	18.49	18.56	19.29	33
	RB1#50	18.28	18.41	18.43		
	RB1#99	18.34	18.27	18.15		
	RB50#0	17.78	17.68	17.63		
	RB50#50	17.58	17.54	17.66		
	RB100#0	17.69	17.71	17.78		
Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gr(dBi)						

**Band 42**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	22.11	21.72	21.92	<b>24.53</b>	30
	RB1#13	22.11	21.69	21.94		
	RB1#24	<b>22.13</b>	21.7	21.96		
	RB15#0	21	20.77	20.88		
	RB15#10	21.01	20.69	20.9		
	RB25#0	21.02	20.68	20.91		
5MHz 16QAM	RB1#0	20.98	20.78	21.11	<b>23.62</b>	30
	RB1#13	21	20.78	21.15		
	RB1#24	20.98	20.78	<b>21.22</b>		
	RB15#0	19.93	19.73	19.89		
	RB15#10	19.91	19.7	19.9		
	RB25#0	20	19.74	19.88		
5MHz 64QAM	RB1#0	18.32	18.37	18.28	20.94	30
	RB1#13	<b>18.54</b>	18.38	18.30		
	RB1#24	18.53	18.41	18.51		
	RB15#0	17.49	17.45	17.37		
	RB15#10	17.37	17.44	17.41		
	RB25#0	17.62	17.58	17.81		
10MHz QPSK	RB1#0	21.95	21.73	21.77	24.39	30
	RB1#25	<b>21.99</b>	21.78	21.89		
	RB1#49	21.98	21.73	21.92		
	RB25#0	20.98	20.74	20.77		
	RB25#25	20.99	20.69	20.88		
	RB50#0	21	20.74	20.82		
10MHz 16QAM	RB1#0	20.86	20.87	20.94	23.49	30
	RB1#25	20.91	20.92	<b>21.09</b>		
	RB1#49	20.88	20.86	<b>21.09</b>		
	RB25#0	19.98	19.74	19.75		
	RB25#25	19.97	19.7	19.88		
	RB50#0	19.94	19.73	19.78		
10MHz 64QAM	RB1#0	18.24	18.27	18.29	20.98	30
	RB1#25	<b>18.58</b>	18.35	18.26		
	RB1#49	18.28	18.40	18.55		
	RB25#0	17.71	17.59	17.71		
	RB25#25	17.75	17.58	17.69		
	RB50#0	17.37	17.50	17.51		
15MHz QPSK	RB1#0	21.88	21.63	21.69	24.41	30
	RB1#38	<b>22.01</b>	21.75	21.86		
	RB1#74	21.95	21.64	21.91		
	RB36#0	20.87	20.64	20.68		
	RB36#39	20.89	20.67	20.84		

	RB75#0	20.91	20.67	20.78		
15MHz 16QAM	RB1#0	21.07	20.82	20.61	23.60	30
	RB1#38	<b>21.2</b>	20.9	20.79		
	RB1#74	21.15	20.84	20.84		
	RB36#0	19.95	19.61	19.7		
	RB36#39	20	19.66	19.78		
	RB75#0	19.92	19.62	19.73		
15MHz 64QAM	RB1#0	18.29	18.28	18.40	21.03	30
	RB1#38	18.49	18.40	18.25		
	RB1#74	<b>18.63</b>	18.39	18.52		
	RB36#0	17.46	17.45	17.56		
	RB36#39	17.48	17.50	17.56		
	RB75#0	17.73	17.51	17.59		
20MHz QPSK	RB1#0	21.75	21.57	21.69	24.38	30
	RB1#50	<b>21.98</b>	21.69	21.89		
	RB1#99	21.85	21.49	21.91		
	RB50#0	20.91	20.7	20.71		
	RB50#50	20.93	20.67	20.85		
	RB100#0	20.92	20.63	20.74		
20MHz 16QAM	RB1#0	20.86	20.55	20.88	23.51	30
	RB1#50	21.02	20.66	21.09		
	RB1#99	20.9	20.51	<b>21.11</b>		
	RB50#0	19.88	19.69	19.73		
	RB50#50	19.89	19.65	19.84		
	RB100#0	19.89	19.62	19.71		
20MHz 64QAM	RB1#0	18.27	18.14	18.27	20.90	30
	RB1#50	18.46	18.40	18.35		
	RB1#99	<b>18.50</b>	18.27	18.16		
	RB50#0	17.53	17.46	17.46		
	RB50#50	17.47	17.48	17.52		
	RB100#0	17.47	17.47	17.66		
Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gr(dBi)						

**Band 66 ANT0:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	18.96	18.77	18.75	16.12	30
	RB1#3	18.91	18.77	18.84		
	RB1#5	19.00	18.80	18.79		
	RB3#0	18.98	18.77	18.96		
	RB3#3	<b>19.02</b>	18.68	18.98		
	RB6#0	18.02	17.78	17.98		
1.4MHz 16QAM	RB1#0	18.03	17.93	17.92	15.29	30
	RB1#3	17.93	17.88	17.96		
	RB1#5	17.98	17.94	17.99		
	RB3#0	18.18	17.80	17.95		
	RB3#3	<b>18.19</b>	17.75	17.88		
	RB6#0	16.99	16.79	16.85		
1.4MHz 64QAM	RB1#0	17.79	17.82	<b>18.08</b>	15.18	30
	RB1#3	17.83	17.68	17.78		
	RB1#5	17.79	17.68	17.72		
	RB3#0	17.74	17.73	17.76		
	RB3#3	17.98	17.91	17.70		
	RB6#0	16.63	16.69	16.93		
3MHz QPSK	RB1#0	<b>19.02</b>	18.81	18.90	16.12	30
	RB1#8	18.92	18.75	18.93		
	RB1#14	18.98	18.79	18.92		
	RB6#0	18.08	17.84	17.88		
	RB6#9	18.05	17.84	17.90		
	RB15#0	18.08	17.82	17.92		
3MHz 16QAM	RB1#0	18.18	17.80	<b>18.41</b>	15.51	30
	RB1#8	18.07	17.84	18.35		
	RB1#14	18.10	17.87	18.27		
	RB6#0	17.03	16.77	16.98		
	RB6#9	16.97	16.63	16.92		
	RB15#0	16.93	16.81	17.03		
3MHz 64QAM	RB1#0	17.86	17.84	17.96	15.12	30
	RB1#8	<b>18.02</b>	17.78	17.95		
	RB1#14	18.00	17.94	17.97		
	RB6#0	16.75	16.65	16.88		
	RB6#9	16.48	16.55	16.58		
	RB15#0	16.61	16.63	16.69		
5MHz QPSK	RB1#0	<b>19.07</b>	18.98	18.87	16.17	30
	RB1#13	19.03	18.91	18.80		
	RB1#24	19.03	18.89	18.91		
	RB15#0	18.09	17.83	17.88		
	RB15#10	18.05	17.81	17.92		

	RB25#0	18.01	17.85	17.93		
5MHz 16QAM	RB1#0	18.09	17.78	<b>18.22</b>	15.32	30
	RB1#13	18.11	17.78	18.18		
	RB1#24	18.04	17.75	18.14		
	RB15#0	17.08	16.91	16.88		
	RB15#10	17.02	16.85	16.95		
	RB25#0	17.08	16.82	16.87		
5MHz 64QAM	RB1#0	17.53	17.51	17.51	15.29	30
	RB1#13	17.65	17.41	17.53		
	RB1#24	18.12	18.15	<b>18.19</b>		
	RB15#0	16.90	16.73	16.89		
	RB15#10	16.51	16.58	16.54		
	RB25#0	16.81	16.72	16.71		
10MHz QPSK	RB1#0	<b>19.09</b>	18.83	18.90	<b>16.19</b>	30
	RB1#25	19.05	18.84	18.86		
	RB1#49	18.90	18.77	18.86		
	RB25#0	18.00	17.82	17.86		
	RB25#25	18.12	17.91	17.93		
	RB50#0	18.09	17.82	17.91		
10MHz 16QAM	RB1#0	18.14	<b>18.39</b>	18.02	15.49	30
	RB1#25	17.97	18.37	18.01		
	RB1#49	17.96	18.29	18.05		
	RB25#0	17.13	16.81	16.87		
	RB25#25	17.19	16.94	16.96		
	RB50#0	17.11	16.82	16.91		
10MHz 64QAM	RB1#0	17.96	17.79	17.87	15.55	30
	RB1#25	18.05	18.25	<b>18.45</b>		
	RB1#49	18.08	18.12	18.26		
	RB25#0	16.77	16.69	16.50		
	RB25#25	16.62	16.55	16.73		
	RB50#0	16.67	16.70	16.70		
15MHz QPSK	RB1#0	19.02	18.82	18.75	16.12	30
	RB1#38	<b>19.02</b>	18.82	18.87		
	RB1#74	18.79	18.62	18.84		
	RB36#0	17.90	17.77	17.87		
	RB36#39	18.03	17.78	17.89		
	RB75#0	17.91	17.76	17.88		
15MHz 16QAM	RB1#0	18.15	18.26	18.33	15.57	30
	RB1#38	18.07	18.24	<b>18.47</b>		
	RB1#74	17.96	18.08	18.28		
	RB36#0	16.98	16.82	16.86		
	RB36#39	16.97	16.74	16.90		
	RB75#0	16.94	16.78	16.87		
15MHz 64QAM	RB1#0	18.02	17.87	<b>18.13</b>	15.23	30
	RB1#38	17.94	17.92	17.84		
	RB1#74	17.83	17.77	17.99		
	RB36#0	16.51	16.67	16.68		

	RB36#39	16.89	16.69	16.82		
	RB75#0	16.74	16.69	16.48		
20MHz QPSK	RB1#0	<b>19.01</b>	18.83	18.67	16.11	30
	RB1#50	18.93	18.83	18.87		
	RB1#99	18.71	18.61	18.66		
	RB50#0	17.93	17.90	17.93		
	RB50#50	17.91	17.91	17.99		
	RB100#0	17.89	17.90	17.99		
20MHz 16QAM	RB1#0	18.31	18.04	18.38	15.55	30
	RB1#50	18.23	18.04	<b>18.45</b>		
	RB1#99	17.97	17.80	18.35		
	RB50#0	16.81	16.86	16.88		
	RB50#50	16.82	16.86	17.00		
	RB100#0	16.89	16.86	16.92		
20MHz 64QAM	RB1#0	17.88	17.78	17.99	<b>15.66</b>	30
	RB1#50	18.40	18.27	<b>18.56</b>		
	RB1#99	18.16	18.04	18.07		
	RB50#0	16.69	16.48	16.70		
	RB50#50	16.79	16.62	16.68		
	RB100#0	16.76	16.53	16.81		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + G<sub>T</sub>(dBi)



**Band 66 ANT1:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	16.78	16.52	16.29	12.65	30
	RB1#3	16.84	16.47	16.28		
	RB1#5	16.84	16.50	16.33		
	RB3#0	16.82	16.52	16.32		
	RB3#3	<b>16.85</b>	16.45	16.29		
	RB6#0	15.81	15.49	15.49		
1.4MHz 16QAM	RB1#0	15.82	15.45	15.56	11.74	30
	RB1#3	15.86	15.42	15.62		
	RB1#5	15.84	15.48	15.58		
	RB3#0	<b>15.94</b>	15.64	15.45		
	RB3#3	15.91	15.62	15.44		
	RB6#0	14.77	14.44	14.49		
1.4MHz 64QAM	RB1#0	13.42	13.39	13.31	9.52	30
	RB1#3	13.54	13.47	13.35		
	RB1#5	13.38	13.39	13.37		
	RB3#0	13.56	13.57	13.53		
	RB3#3	<b>13.72</b>	13.33	13.23		
	RB6#0	13.58	13.47	13.33		
3MHz QPSK	RB1#0	<b>16.85</b>	16.42	16.27	12.65	30
	RB1#8	16.76	16.38	16.29		
	RB1#14	16.76	16.35	16.29		
	RB6#0	15.85	15.46	15.49		
	RB6#9	15.77	15.44	15.50		
	RB15#0	15.81	15.41	15.46		
3MHz 16QAM	RB1#0	15.87	<b>16.08</b>	15.58	11.88	30
	RB1#8	15.77	16.06	15.59		
	RB1#14	15.77	16.00	15.55		
	RB6#0	14.76	14.52	14.46		
	RB6#9	14.68	14.48	14.51		
	RB15#0	14.86	14.48	14.40		
3MHz 64QAM	RB1#0	13.62	13.32	13.57	9.56	30
	RB1#8	13.70	13.54	13.75		
	RB1#14	<b>13.76</b>	13.42	13.45		
	RB6#0	13.64	13.38	13.41		
	RB6#9	13.56	13.34	13.39		
	RB15#0	13.70	13.44	13.57		
5MHz QPSK	RB1#0	<b>16.88</b>	16.58	16.24	12.68	30
	RB1#13	16.82	16.54	16.26		
	RB1#24	16.78	16.50	16.31		
	RB15#0	15.83	15.48	15.52		
	RB15#10	15.80	15.46	15.40		

	RB25#0	15.76	15.44	15.44		
5MHz 16QAM	RB1#0	15.72	<b>15.84</b>	15.52	11.64	30
	RB1#13	15.66	15.78	15.48		
	RB1#24	15.65	15.76	15.57		
	RB15#0	14.85	14.43	14.51		
	RB15#10	14.79	14.43	14.42		
	RB25#0	14.84	14.44	14.47		
5MHz 64QAM	RB1#0	13.64	13.32	13.22	9.48	30
	RB1#13	13.50	13.48	13.38		
	RB1#24	13.64	13.40	13.32		
	RB15#0	13.66	13.24	13.42		
	RB15#10	13.54	13.48	13.34		
	RB25#0	<b>13.68</b>	13.42	13.40		
10MHz QPSK	RB1#0	<b>16.87</b>	16.49	16.23	12.67	30
	RB1#25	16.82	16.41	16.27		
	RB1#49	16.71	16.40	16.23		
	RB25#0	15.76	15.45	15.42		
	RB25#25	15.80	15.47	15.38		
	RB50#0	15.84	15.52	15.43		
10MHz 16QAM	RB1#0	15.86	15.55	<b>16.00</b>	11.8	30
	RB1#25	15.82	15.47	<b>16.00</b>		
	RB1#49	15.65	15.38	15.99		
	RB25#0	14.83	14.55	14.45		
	RB25#25	14.90	14.56	14.44		
	RB50#0	14.80	14.50	14.41		
10MHz 64QAM	RB1#0	13.67	13.65	13.24	9.59	30
	RB1#25	<b>13.79</b>	13.41	13.60		
	RB1#49	13.51	13.57	13.30		
	RB25#0	13.53	13.41	13.30		
	RB25#25	13.57	13.51	13.60		
	RB50#0	13.61	13.49	13.42		
15MHz QPSK	RB1#0	<b>16.71</b>	16.45	16.32	12.51	30
	RB1#38	16.66	16.46	16.17		
	RB1#74	16.50	16.31	16.19		
	RB36#0	15.69	15.47	15.28		
	RB36#39	15.67	15.35	15.35		
	RB75#0	15.70	15.41	15.41		
15MHz 16QAM	RB1#0	<b>16.42</b>	15.65	15.75	12.22	30
	RB1#38	16.32	15.61	15.81		
	RB1#74	16.14	15.44	15.77		
	RB36#0	14.71	14.47	14.28		
	RB36#39	14.68	14.39	14.32		
	RB75#0	14.66	14.42	14.39		
15MHz 64QAM	RB1#0	13.66	13.32	13.48	9.52	30
	RB1#38	13.66	13.36	13.66		
	RB1#74	<b>13.72</b>	13.42	13.38		
	RB36#0	13.54	13.30	13.60		

	RB36#39	13.68	13.30	13.38		
	RB75#0	13.54	13.44	13.48		
20MHz QPSK	RB1#0	<b>16.74</b>	16.52	16.35	12.54	30
	RB1#50	16.70	16.50	16.27		
	RB1#99	16.46	16.26	16.10		
	RB50#0	15.61	15.46	15.35		
	RB50#50	15.56	15.37	15.38		
	RB100#0	15.58	15.42	15.41		
20MHz 16QAM	RB1#0	<b>16.25</b>	15.83	15.63	12.05	30
	RB1#50	16.21	15.79	15.71		
	RB1#99	16.01	15.50	15.56		
	RB50#0	14.55	14.44	14.37		
	RB50#50	14.56	14.35	14.33		
	RB100#0	14.58	14.41	14.39		
20MHz 64QAM	RB1#0	13.53	13.58	13.24	9.47	30
	RB1#50	<b>13.67</b>	13.50	13.44		
	RB1#99	13.57	13.44	13.56		
	RB50#0	13.61	13.22	13.30		
	RB50#50	13.45	13.38	13.26		
	RB100#0	13.51	13.38	13.44		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + G<sub>T</sub>(dBi)

**Peak-to-average ratio (PAR)**

**Cellular Band**

**GSM850**

Test Mode	Peak-to-average Ratio (dB)			Limit (dB)
	Lowest Channel	Middle Channel	Highest Channel	
GSM	3.59	4.47	3.66	13
EGPRS	4.05	3.98	3.78	13

**WCDMA B5**

Test Mode	Peak-to-average Ratio (dB)			Limit (dB)
	Lowest Channel	Middle Channel	Highest Channel	
WCDMA R99	2.96	2.81	2.96	13
HSDPA	4.55	4.49	3.13	13
HSUPA	4.72	5.45	5.19	13

**PCS Band**

**PCS1900**

Test Mode	Peak-to-average Ratio (dB)			Limit (dB)
	Lowest Channel	Middle Channel	Highest Channel	
GSM	4.51	3.87	4.11	13
EGPRS	3.74	4.02	3.99	13

**WCDMA B2**

Test Mode	Peak-to-average Ratio (dB)			Limit (dB)
	Lowest Channel	Middle Channel	Highest Channel	
WCDMA R99	3.16	3.25	3.3	13
HSDPA	4.52	4.7	4.7	13
HSUPA	6.03	5.97	5.68	13

**AWS Band  
WCDMA B4**

Test Mode	Peak-to-average Ratio (dB)			Limit (dB)
	Lowest Channel	Middle Channel	Highest Channel	
WCDMA R99	3.25	3.51	3.62	13
HSDPA	4.61	6.14	4.84	13
HSUPA	6.32	5.94	6.35	13

**LTE Band:** (pre-scan all bandwidth, the worst case as below)

**LTE Band 2 20MHz Bandwidth**

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio (dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	8.64	4.75	5.39	13
	RB100#0	4.12	4	4.03	13
20MHz 16QAM	RB1#0	5.68	5.48	6.23	13
	RB100#0	5.83	5.65	5.77	13
20MHz 64QAM	RB1#0	4.55	4.46	4.9	13
	RB100#0	5.07	5.04	5.01	13

**LTE Band 4 20MHz Bandwidth**

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	4.99	4.7	4.55	13
	RB100#0	3.91	3.86	4.12	13
20MHz 16QAM	RB1#0	5.62	5.54	5.39	13
	RB100#0	5.71	5.62	5.88	13
20MHz 64QAM	RB1#0	5.01	4.17	4.43	13
	RB100#0	4.9	4.84	5.16	13

**LTE Band 5 10MHz Bandwidth**

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
10MHz QPSK	RB1#0	4.35	3.77	4.06	13
	RB50#0	4.72	4.55	4.64	13
10MHz 16QAM	RB1#0	5.01	4.84	4.81	13
	RB50#0	5.71	5.62	5.65	13
10MHz 64QAM	RB1#0	4.29	3.68	4.00	13
	RB50#0	4.75	4.67	4.61	13

**LTE Band 7 20MHz Bandwidth**

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	4.61	5.04	4.78	13
	RB100#0	4.12	4.26	4.23	13
20MHz 16QAM	RB1#0	5.39	6.61	5.8	13
	RB100#0	5.86	5.94	5.94	13
20MHz 64QAM	RB1#0	4.70	5.13	5.16	13
	RB100#0	5.19	5.28	5.25	13

**LTE Band 12 10MHz Bandwidth**

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
10MHz QPSK	RB1#0	4.43	4.87	4.72	13
	RB50#0	4.96	4.96	4.84	13
10MHz 16QAM	RB1#0	5.22	5.3	5.77	13
	RB50#0	6.03	5.88	5.91	13
10MHz 64QAM	RB1#0	4.70	5.13	5.16	13
	RB50#0	5.19	5.28	5.25	13

**LTE Band 17 10MHz Bandwidth**

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
10MHz QPSK	RB1#0	4.81	4.84	4.72	13
	RB50#0	4.9	4.9	4.84	13
10MHz 16QAM	RB1#0	5.59	5.88	5.83	13
	RB50#0	5.88	5.83	5.88	13
10MHz 64QAM	RB1#0	4.81	4.32	4.52	13
	RB50#0	4.96	5.01	4.78	13

**LTE Band 38 20MHz Bandwidth**

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	9.19	8.90	9.10	13
	RB100#0	9.25	9.22	9.22	13
20MHz 16QAM	RB1#0	9.80	9.57	9.88	13
	RB100#0	10.09	10.09	10.06	13
20MHz 64QAM	RB1#0	10.23	10.23	9.74	13
	RB100#0	10.17	10.32	10.32	13

**LTE Band 41 20MHz Bandwidth**

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	8.41	8.23	8.99	13
	RB100#0	8.87	8.72	9.13	13
20MHz 16QAM	RB1#0	9.13	9.10	9.68	13
	RB100#0	9.74	9.57	9.91	13
20MHz 64QAM	RB1#0	8.99	8.72	9.28	13
	RB100#0	9.36	9.59	9.51	13

**LTE Band 42 20MHz Bandwidth**

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	8.41	8.23	8.99	13
	RB100#0	8.87	8.72	9.13	13
20MHz 16QAM	RB1#0	9.13	9.10	9.68	13
	RB100#0	9.74	9.57	9.94	13
20MHz 64QAM	RB1#0	9.77	9.39	8.43	13
	RB100#0	10.09	9.74	8.43	13

**LTE Band 66 20MHz Bandwidth**

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	5.04	4.41	4.23	13
	RB100#0	4.96	5.13	4.96	13
20MHz 16QAM	RB1#0	6.06	5.1	5.04	13
	RB100#0	5.91	6.09	5.91	13
20MHz 64QAM	RB1#0	5.07	4.49	4.06	13
	RB100#0	4.93	5.19	4.99	13

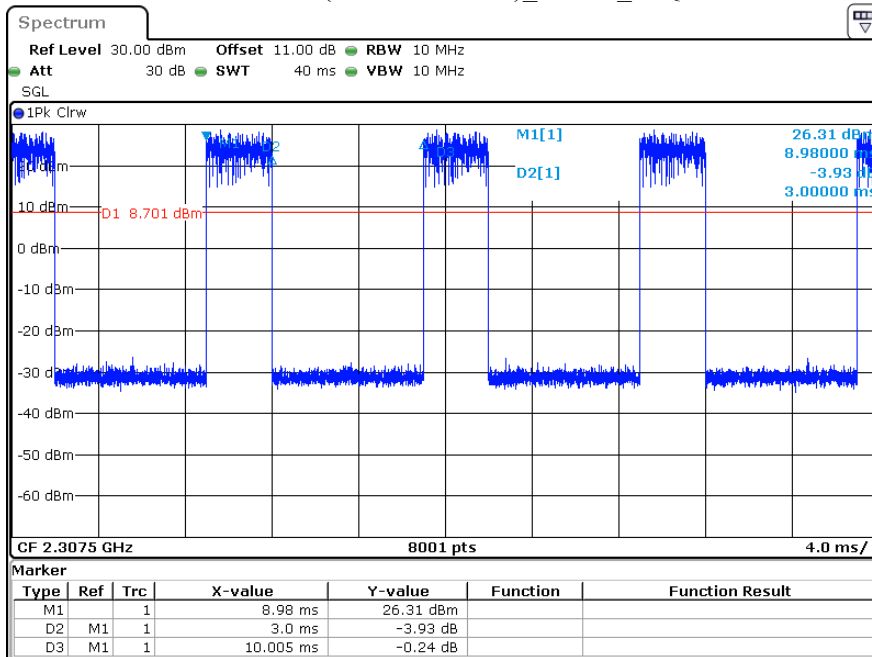
**LTE Band 40 Duty Cycle**

Operation Band	Modulation	Bandwidth	Ton (ms)	Ton+off (ms)	Duty Cycle (%)	Limit (%)
LTE Band 40 Lower	QPSK	5M	3	10.005	29.99	38
		10M	3	10.005	29.99	38
	16QAM	5M	3	10.005	29.99	38
		10M	3	10.005	29.99	38
LTE Band 40 Upper	QPSK	5M	2.995	10.005	29.94	38
		10M	3	10.005	29.99	38
	16QAM	5M	3	10.005	29.99	38
		10M	3	10.005	29.99	38



### Duty Cycle

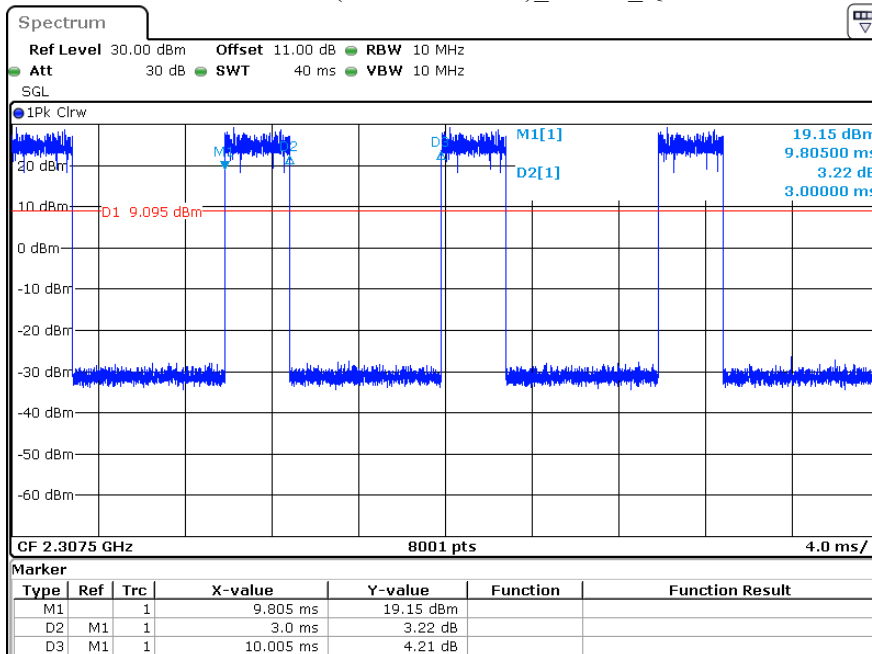
#### LTE Band 40 (2305-2315MHz)\_ 5MHz\_16QAM



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng

Date: 29.JAN.2024 23:53:07

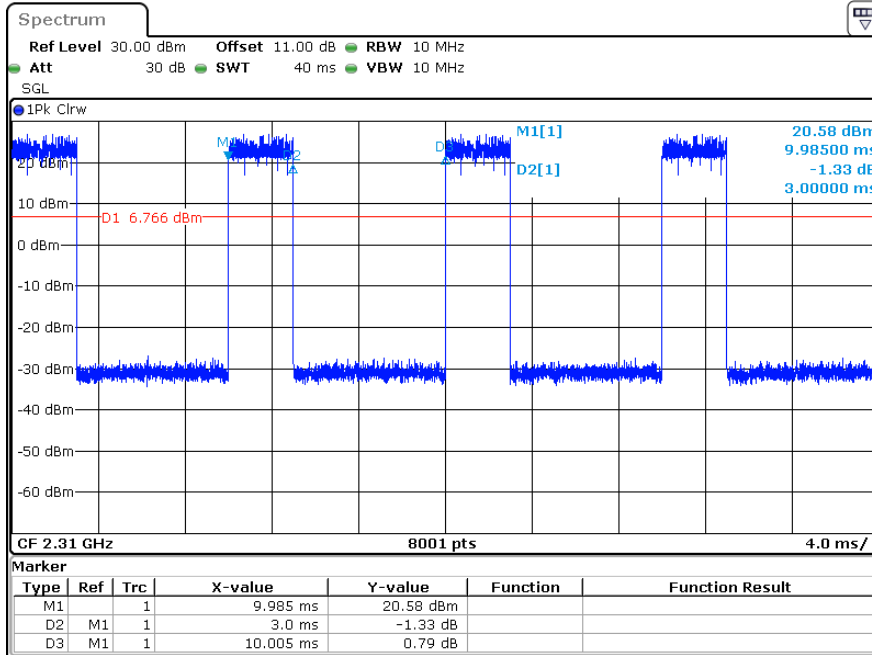
#### LTE Band 40 (2305-2315MHz)\_ 5MHz\_QPSK



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng

Date: 29.JAN.2024 23:53:30

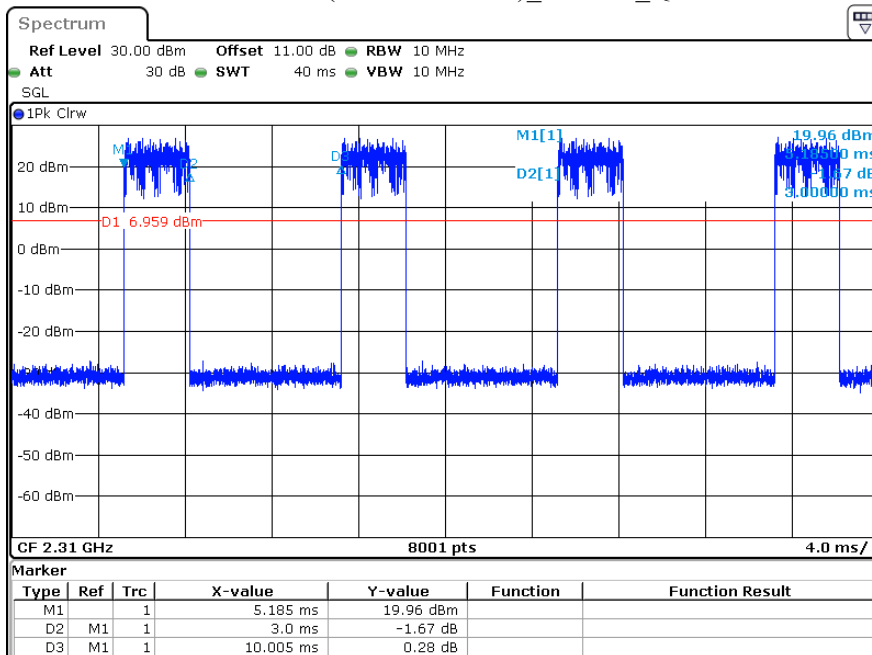
LTE Band 40 (2305-2315MHz)\_ 10MHz\_16QAM



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng

Date: 29.JAN.2024 23:54:01

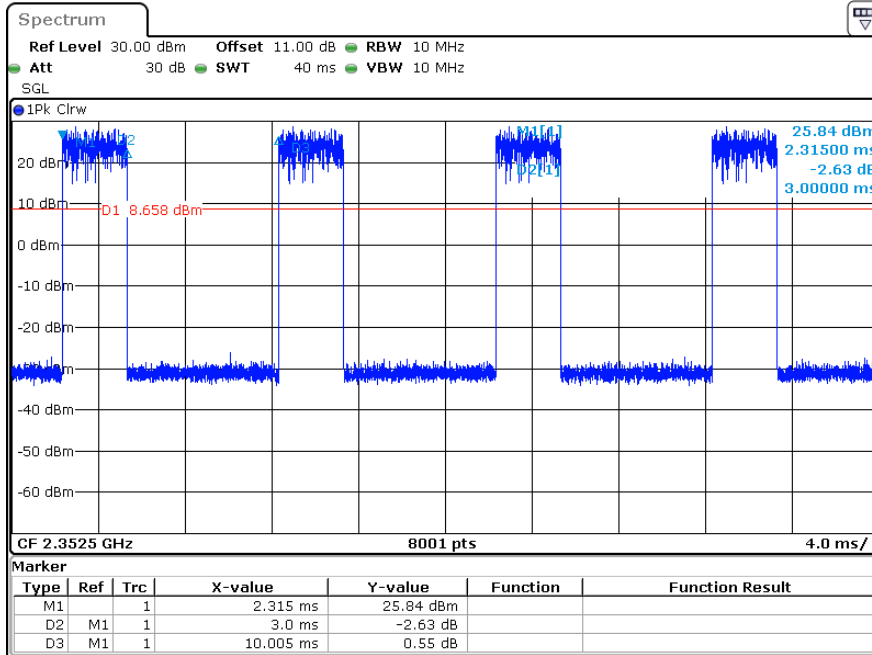
LTE Band 40 (2305-2315MHz)\_ 10MHz\_QPSK



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng

Date: 29.JAN.2024 23:54:17

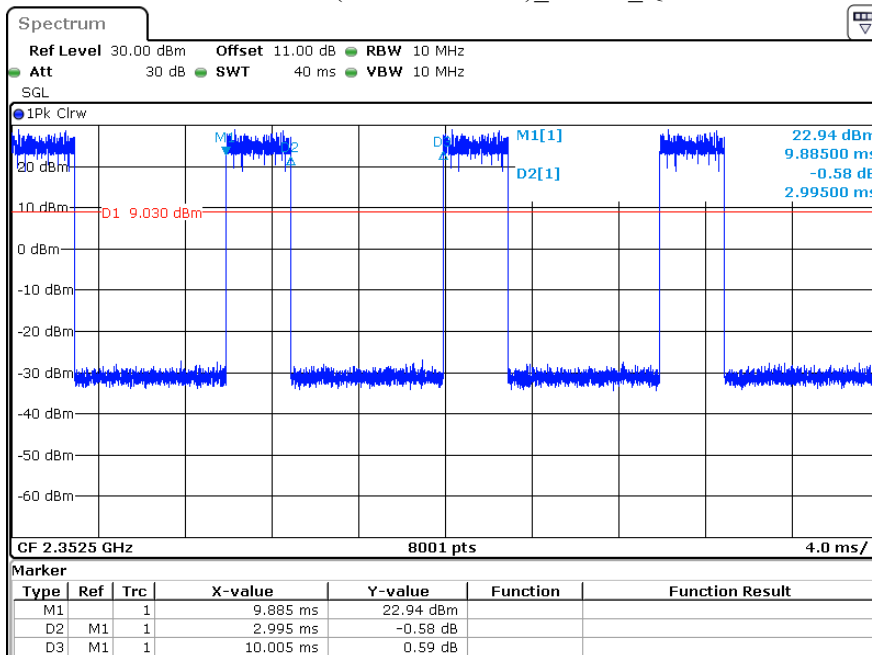
LTE Band 40 (2350-2360MHz)\_ 5MHz\_16QAM



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng

Date: 29.JAN.2024 23:54:49

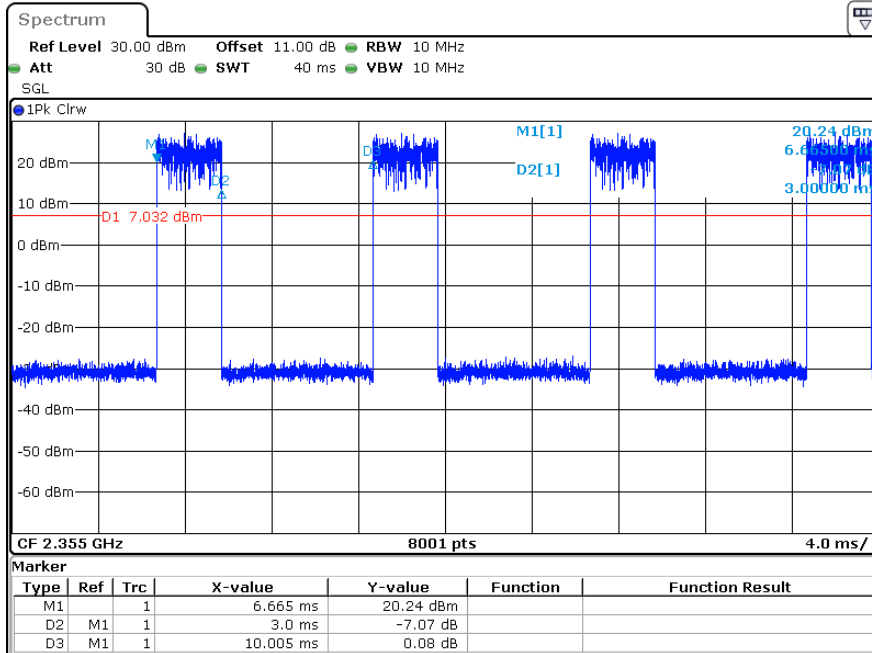
LTE Band 40 (2350-2360MHz)\_ 5MHz\_QPSK



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng

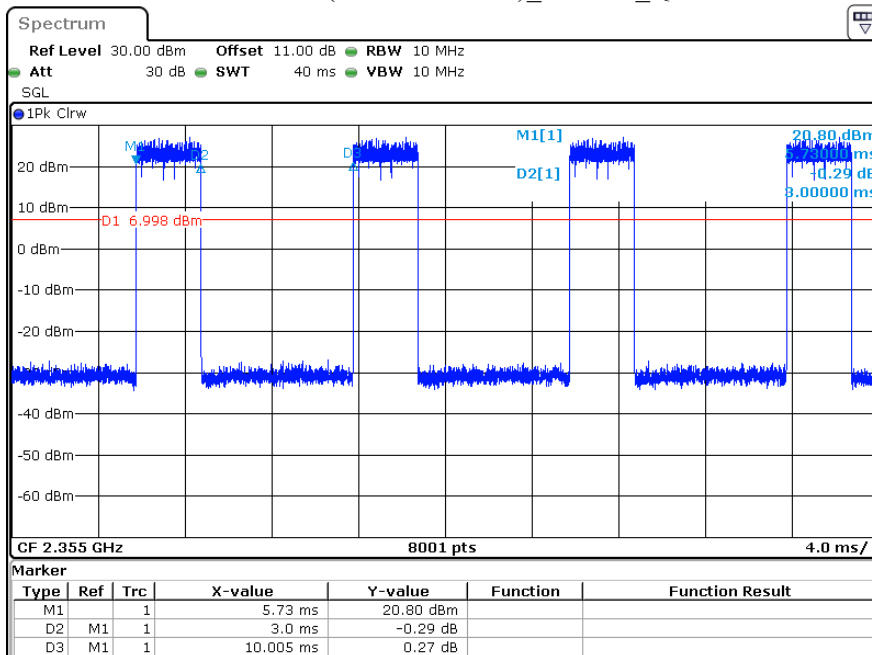
Date: 29.JAN.2024 23:55:12

LTE Band 40 (2350-2360MHz)\_ 10MHz\_16QAM



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
Date: 29.JAN.2024 23:55:41

LTE Band 40 (2350-2360MHz)\_ 10MHz\_QPSK



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
Date: 29.JAN.2024 23:55:59

**FCC §2.1049, §22.917, §22.905 & §24.238&§27.53 - OCCUPIED BANDWIDTH**

**Applicable Standard**

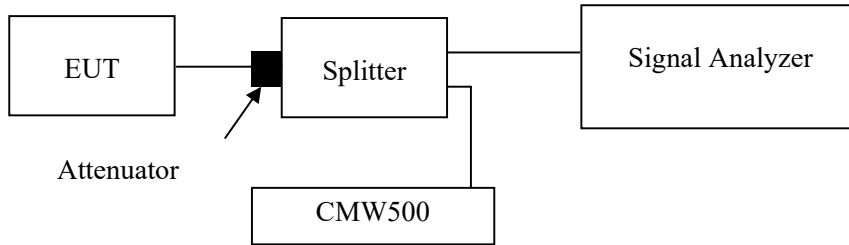
FCC 47 §2.1049, §22.917, §22.905, §24.238 and §27.53.

**Test Procedure**

ANSI C63.26-2015 Section 5.4.4

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 1% to 5% of the anticipated emission bandwidth and the 26 dB & 99% bandwidth was recorded.



**Test Data**

**Environmental Conditions**

<b>Temperature:</b>	23.5~24.5 °C
<b>Relative Humidity:</b>	40~45 %
<b>ATM Pressure:</b>	101.0kPa

The testing was performed by Jim Cheng from 2024-01-26 to 2024-02-29 and Bamboo Zhan on 2024-03-01.

*EUT operation mode: Transmitting*

**Test Result: Compliant**

*Please refer to the following tables and plots.*

**Cellular Band (Part 22H)**

**GSM 850**

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
GSM	0.243	0.243	0.243	0.32	0.324	0.322
EDGE	0.247	0.246	0.247	0.321	0.321	0.323

Note: The test plots please refer to the Plots of Occupied Bandwidth

**WCDMA B5**

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
WCDMA R99	4.151	4.136	4.151	4.725	4.74	4.71
HSDPA	4.136	4.166	4.151	4.725	4.725	4.725
HSUPA	4.167	4.166	4.151	4.71	4.71	4.71

Note: The test plots please refer to the Plots of Occupied Bandwidth

**PCS Band (Part 24E)**

**PCS 1900**

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
GSM	0.242	0.244	0.244	0.32	0.317	0.317
EDGE	0.255	0.247	0.252	0.321	0.321	0.325

Note: The test plots please refer to the Plots of Occupied Bandwidth

**WCDMA B2**

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
WCDMA R99	4.136	4.136	4.136	4.71	4.725	4.71
HSDPA	4.151	4.136	4.151	4.71	4.71	4.695
HSUPA	4.151	4.151	4.151	4.695	4.71	4.695

Note: The test plots please refer to the Plots of Occupied Bandwidth

**AWS Band**

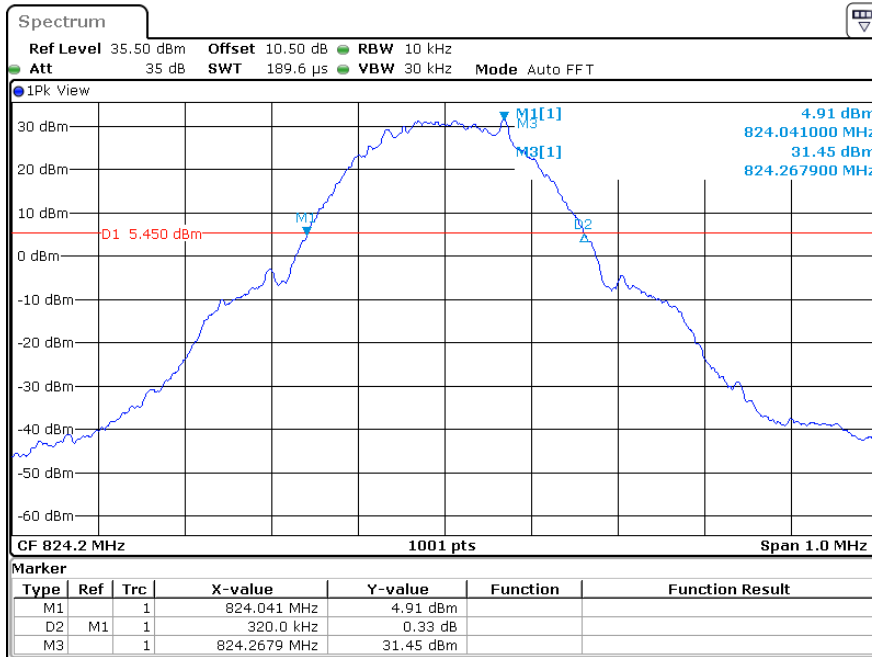
**WCDMA B4**

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
WCDMA R99	4.136	4.151	4.136	4.725	4.695	4.71
HSDPA	4.166	4.211	4.181	4.71	5.25	5.445
HSUPA	4.151	4.226	4.226	4.71	4.725	4.71

Note: The test plots please refer to the Plots of Occupied Bandwidth

**Cellular Band  
26dB Bandwidth**

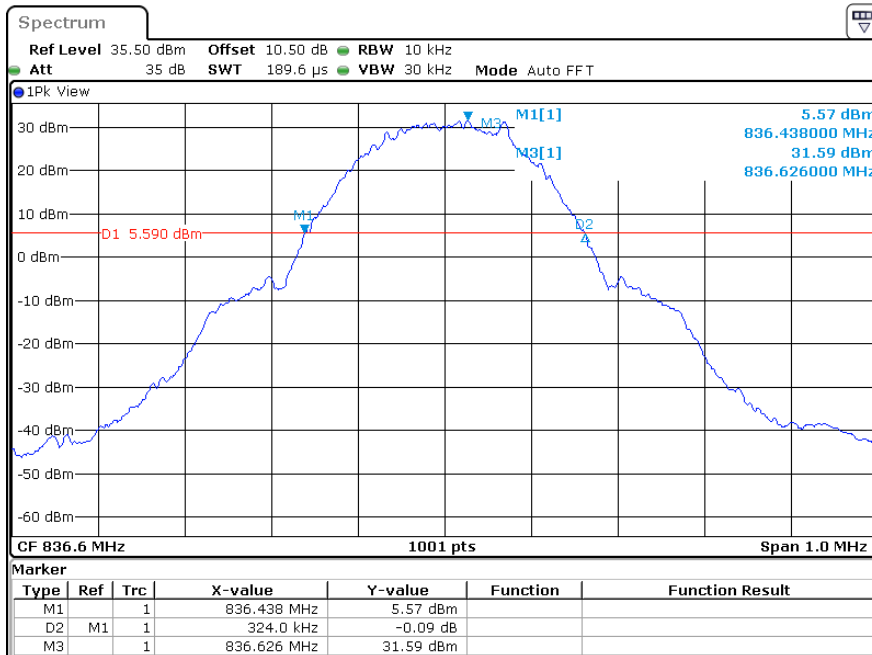
**GSM(GMSK) Mode, Low channel**



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng

Date: 29.FEB.2024 23:17:41

**GSM(GMSK) Mode, Middle channel**

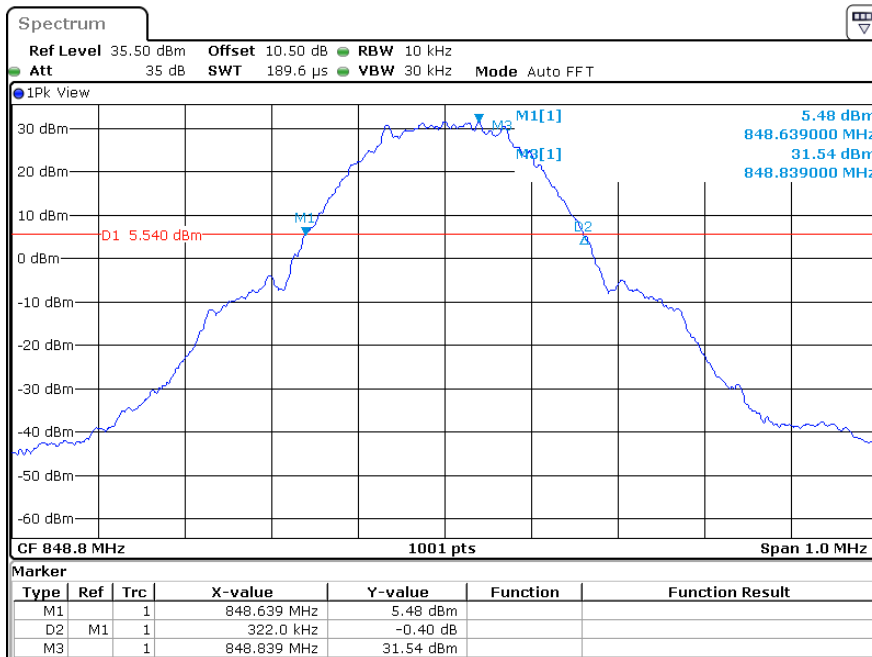


ProjectNo.:SZ1231211-74617E Tester:Jim Cheng

Date: 29.FEB.2024 23:14:43

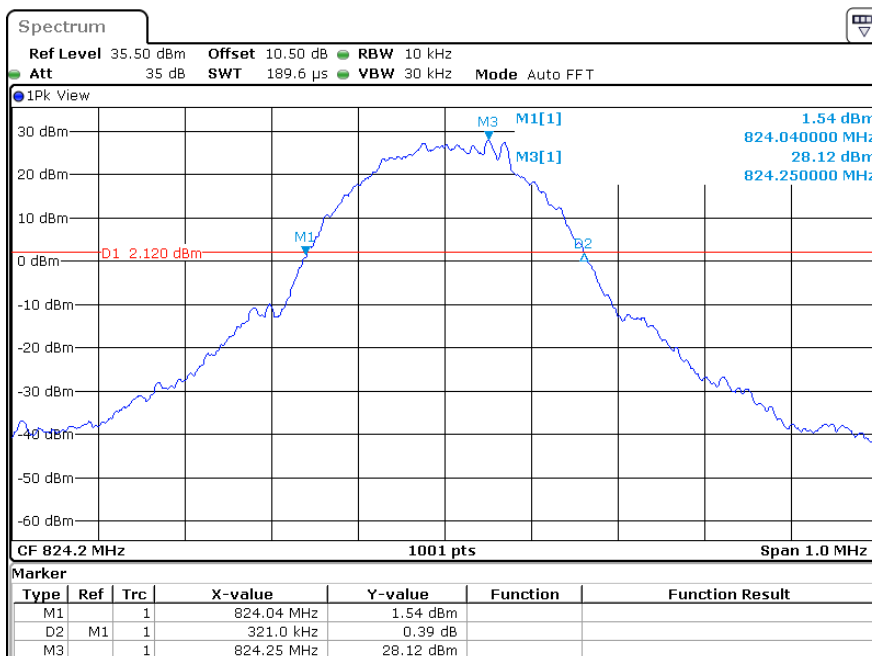


### GSM(GMSK) Mode, High channel



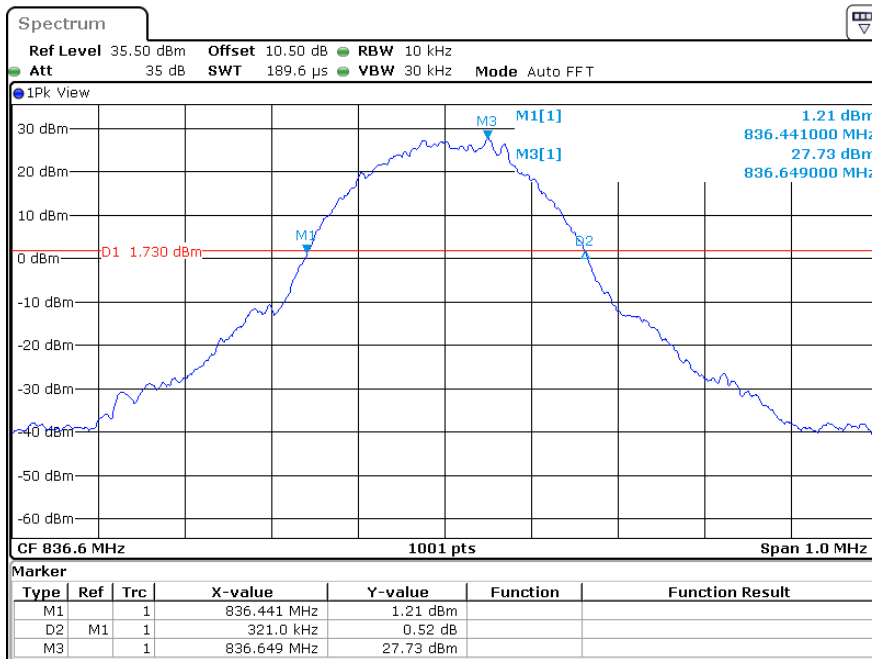
ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 23:22:44

### EDGE Mode, Low channel



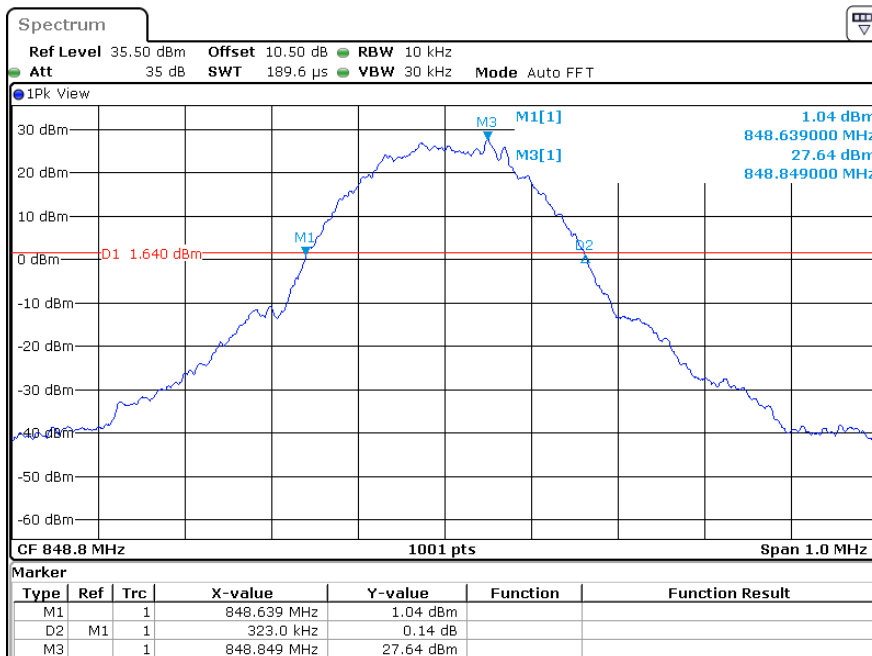
ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 22:37:38

### EDGE Mode, Middle channel



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 22:41:40

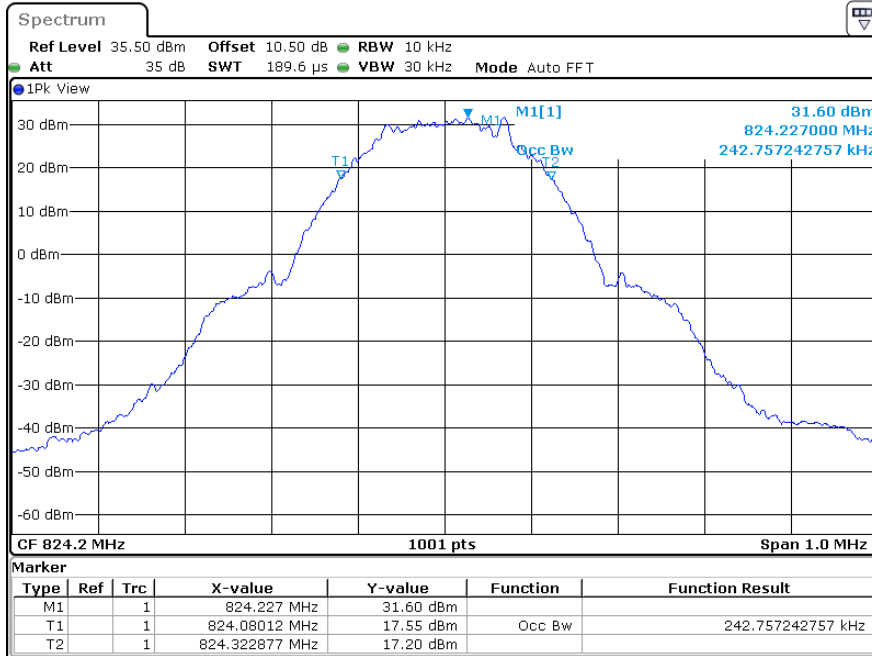
### EDGE Mode, High channel



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 22:46:28

99% Occupied Bandwidth

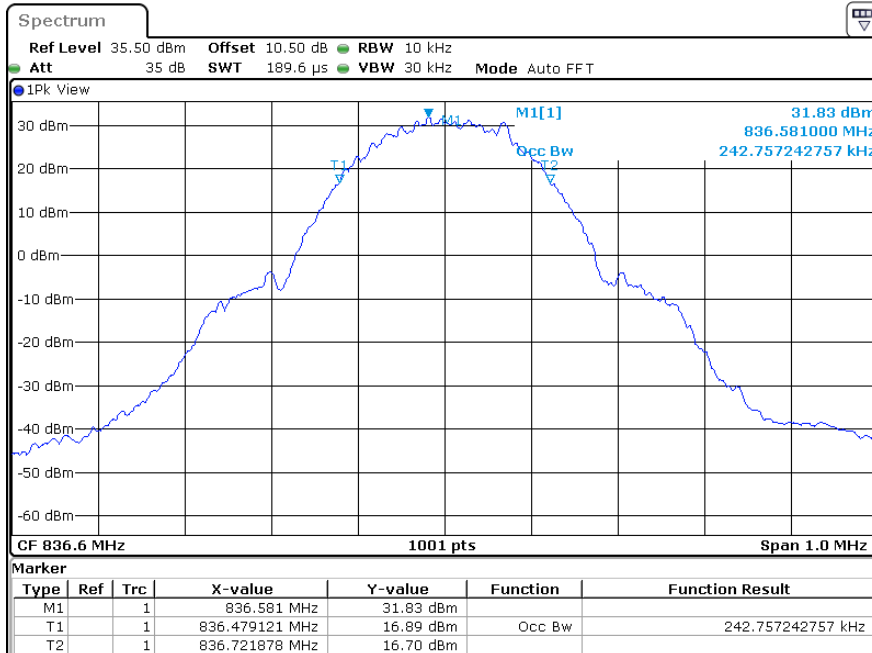
GSM(GMSK) Mode, Low channel



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng

Date: 29.FEB.2024 23:17:21

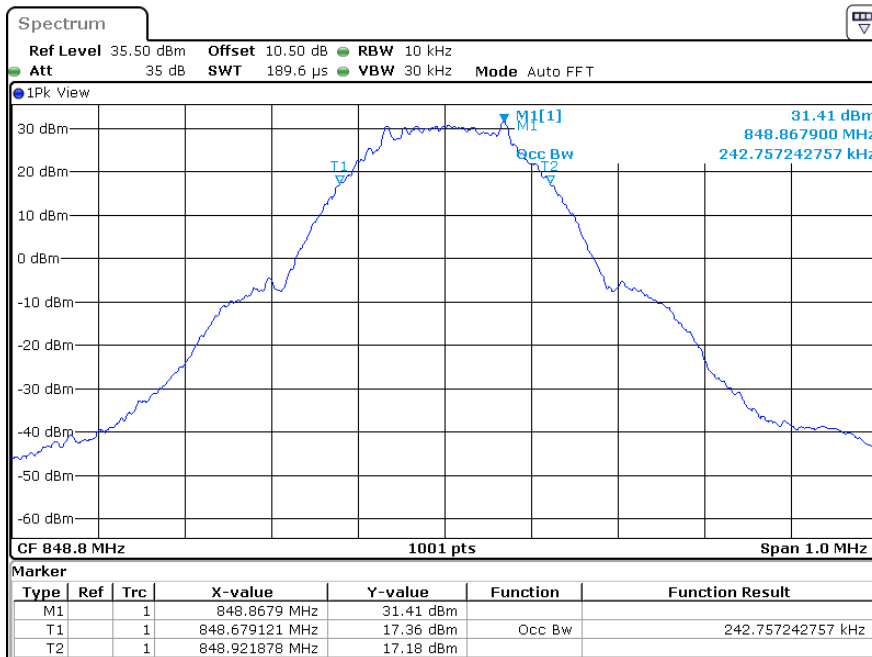
GSM(GMSK) Mode, Middle channel



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng

Date: 29.FEB.2024 23:14:22

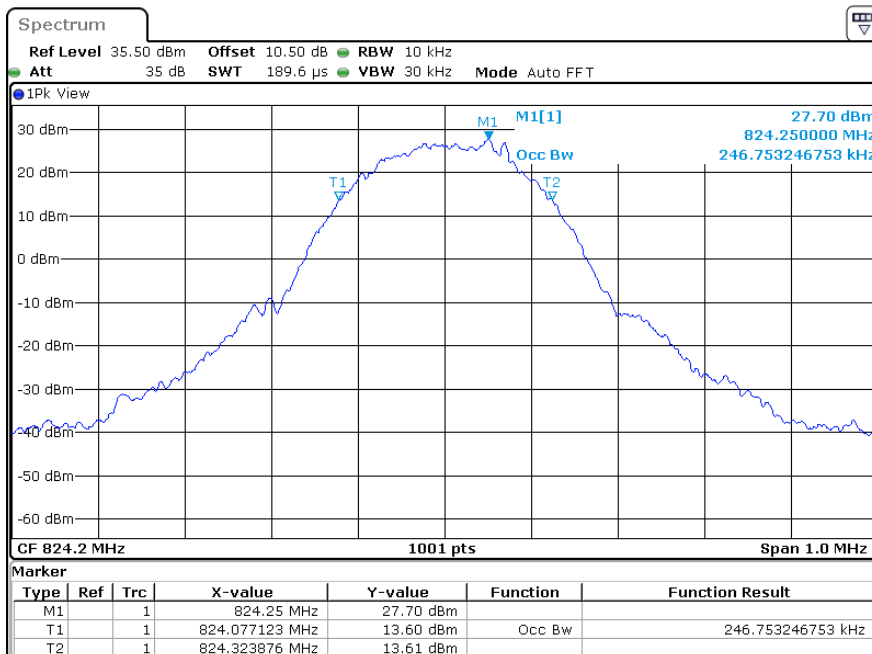
### GSM(GMSK) Mode, High channel



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng

Date: 29.FEB.2024 23:22:14

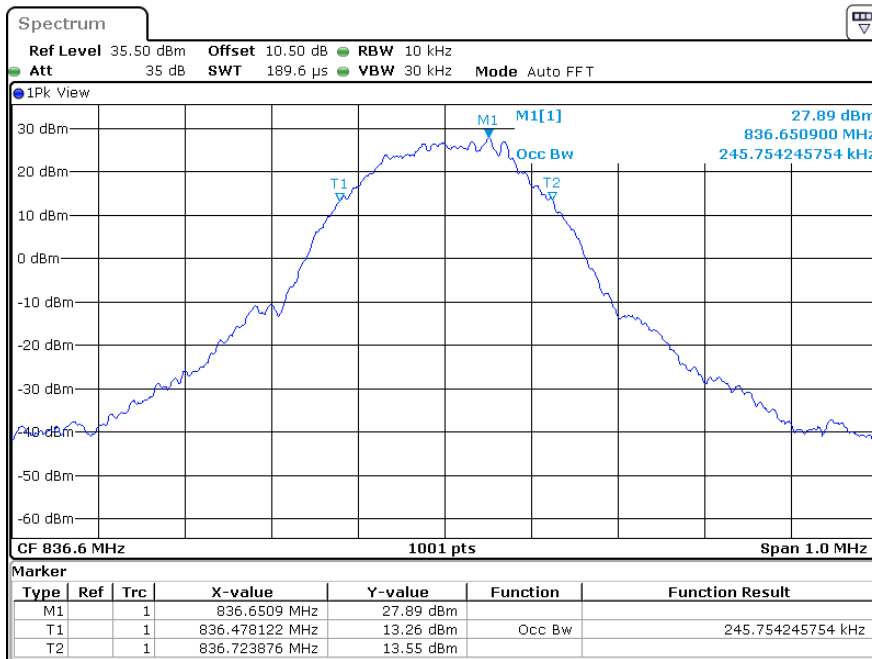
### EDGE Mode, Low channel



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng

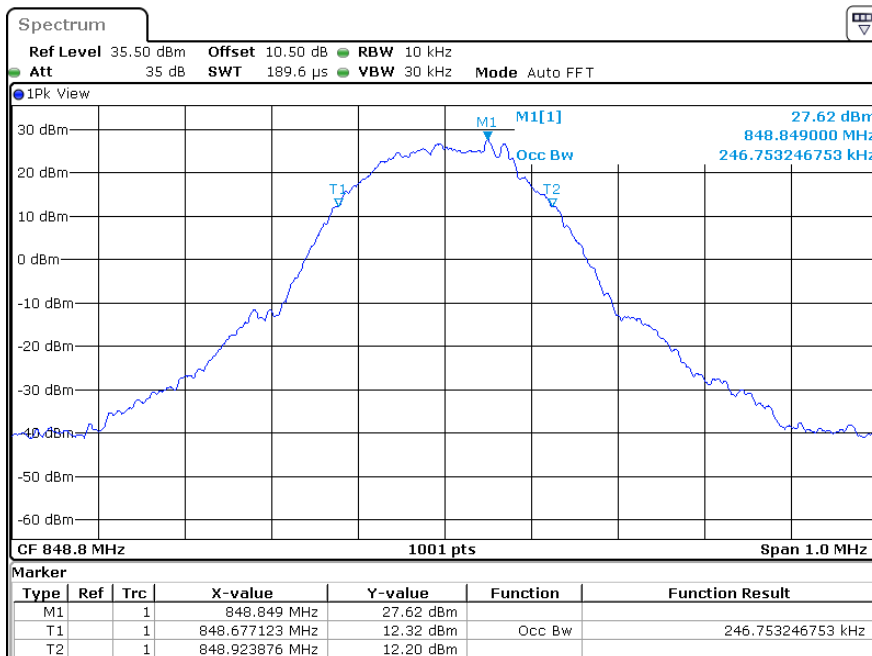
Date: 29.FEB.2024 22:37:09

### EDGE Mode, Middle channel



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 22:41:09

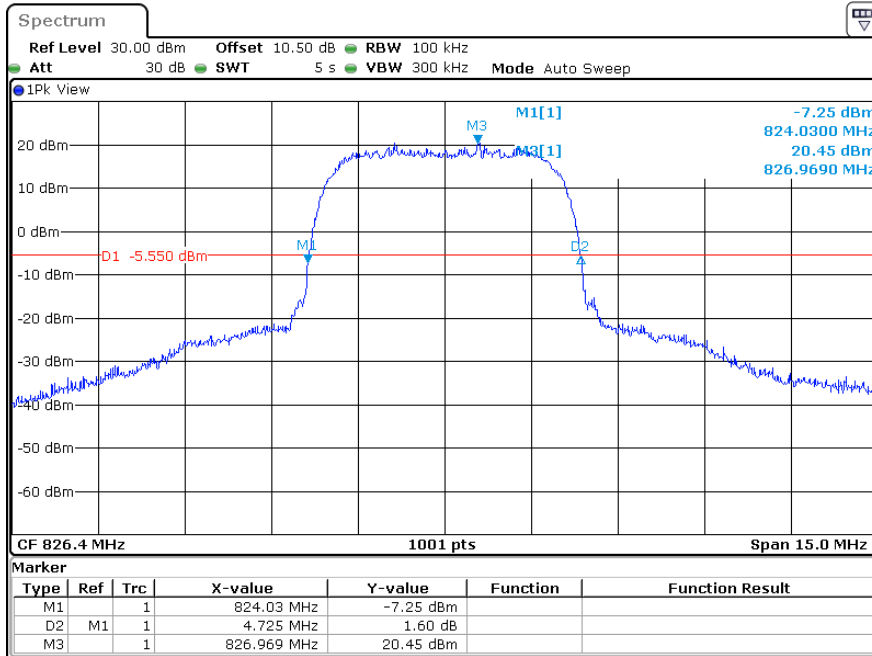
### EDGE Mode, High channel



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 22:46:07

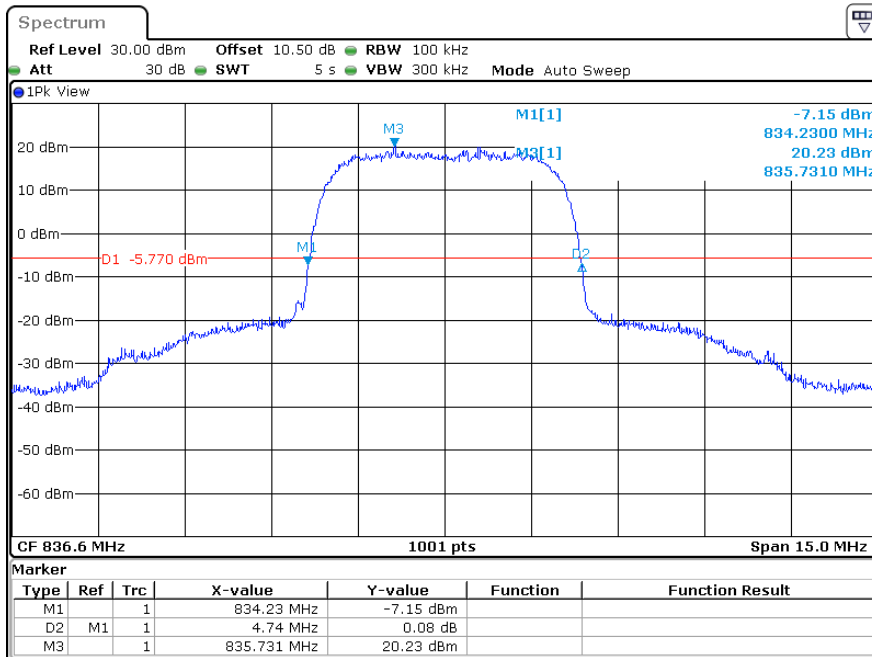
26 dB Bandwidth

RMC (BPSK) Mode, Low channel



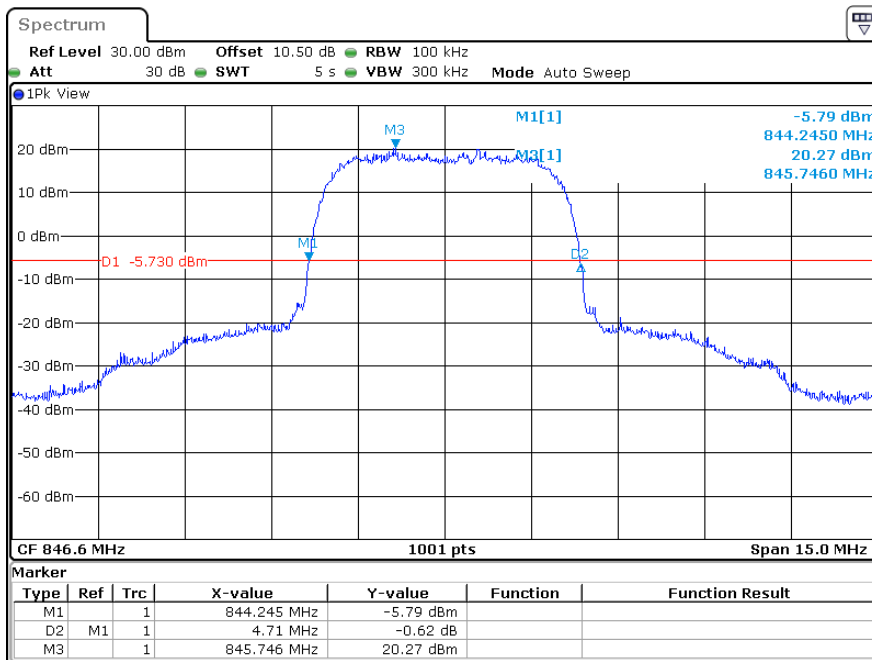
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:28:10

RMC (BPSK) Mode, Middle channel



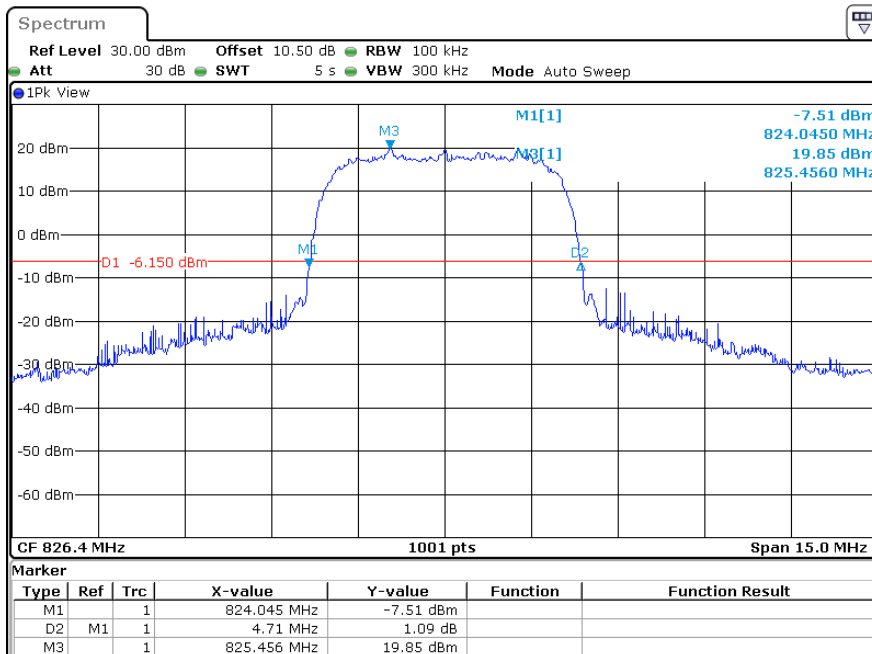
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:44:59

### RMC (BPSK) Mode, High channel



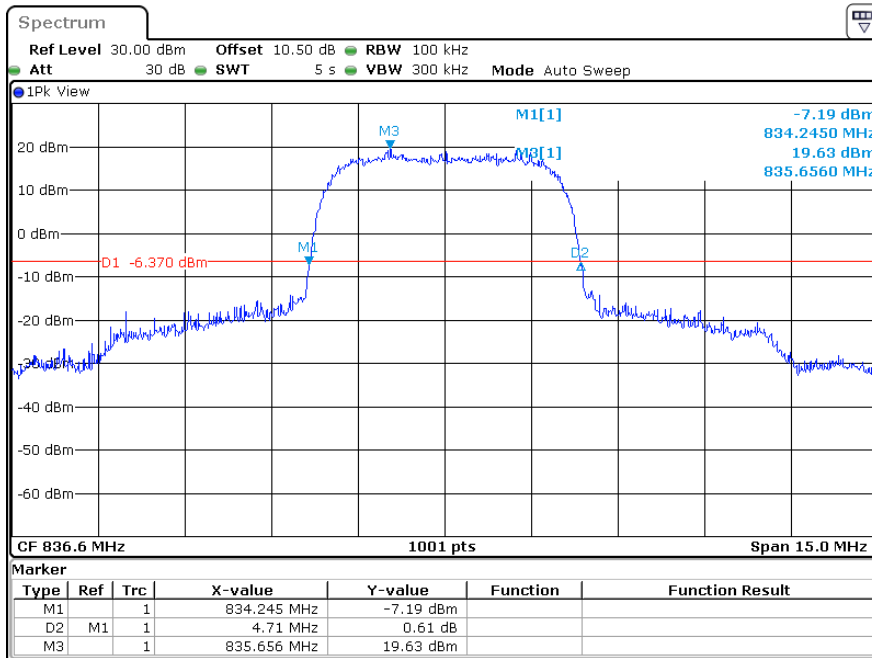
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:32:16

### HSUPA (QPSK) Mode, Low channel



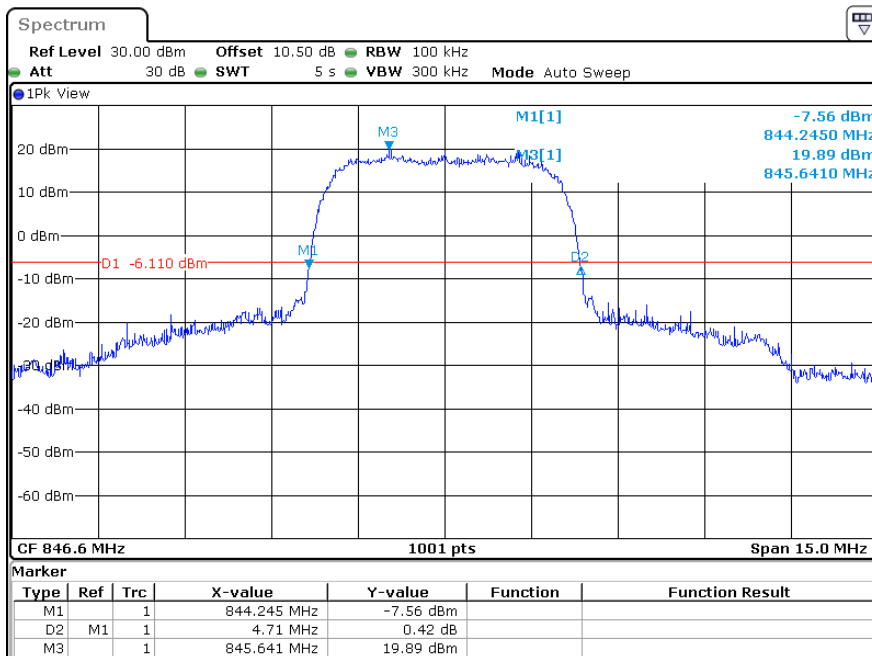
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 20:16:19

### HSUPA (QPSK) Mode, Middle channel



ProjectNo.:SZ1231211-74617E    Tester:Bamboo Zhan  
 Date: 1.MAR.2024 20:21:52

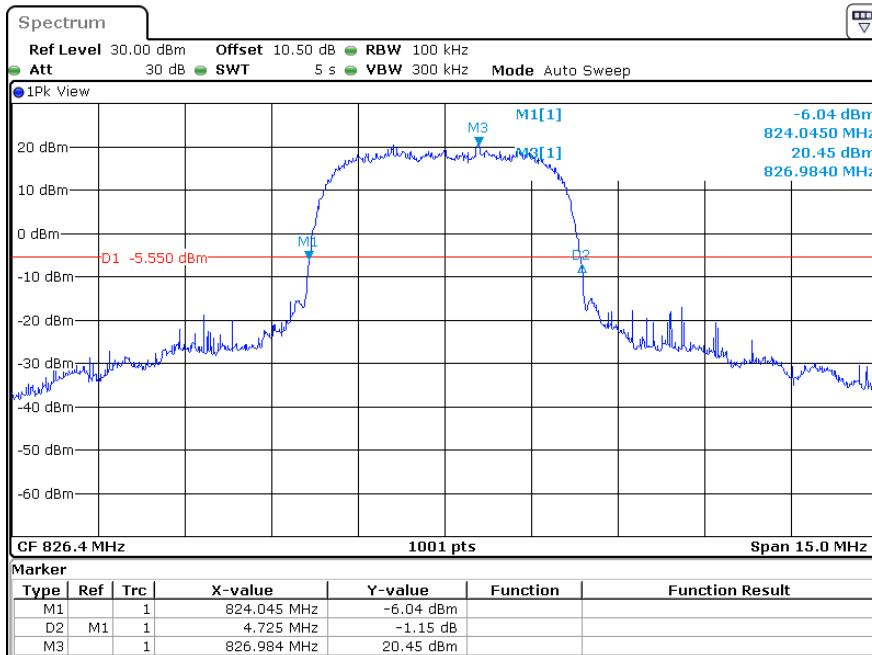
### HSUPA (QPSK) Mode, High channel



ProjectNo.:SZ1231211-74617E    Tester:Bamboo Zhan  
 Date: 1.MAR.2024 20:27:15

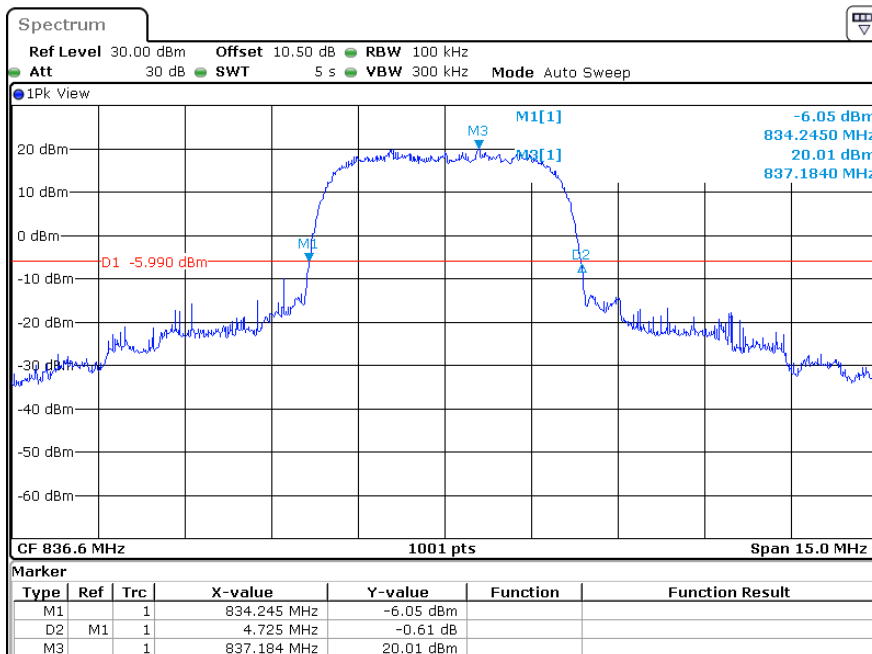


### HSDPA (16QAM) Mode, Low channel



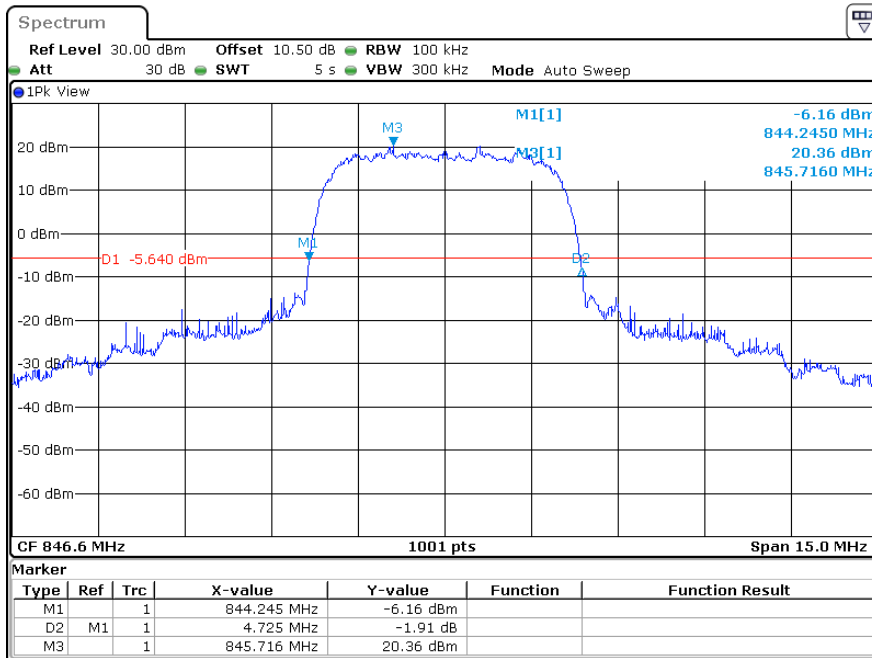
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 20:06:14

### HSDPA (16QAM) Mode, Middle channel



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:52:58

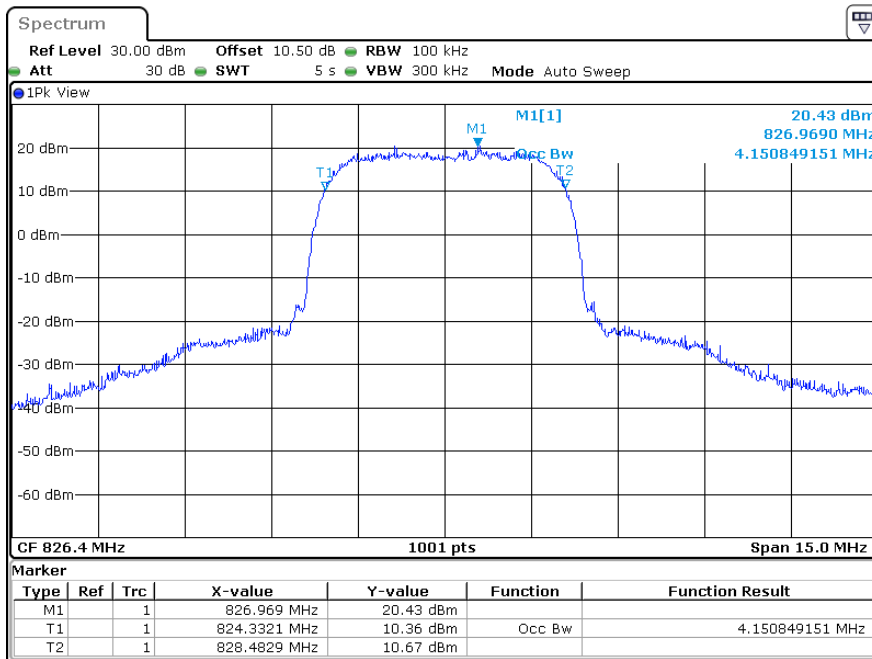
HSDPA (16QAM) Mode, High channel



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:58:11

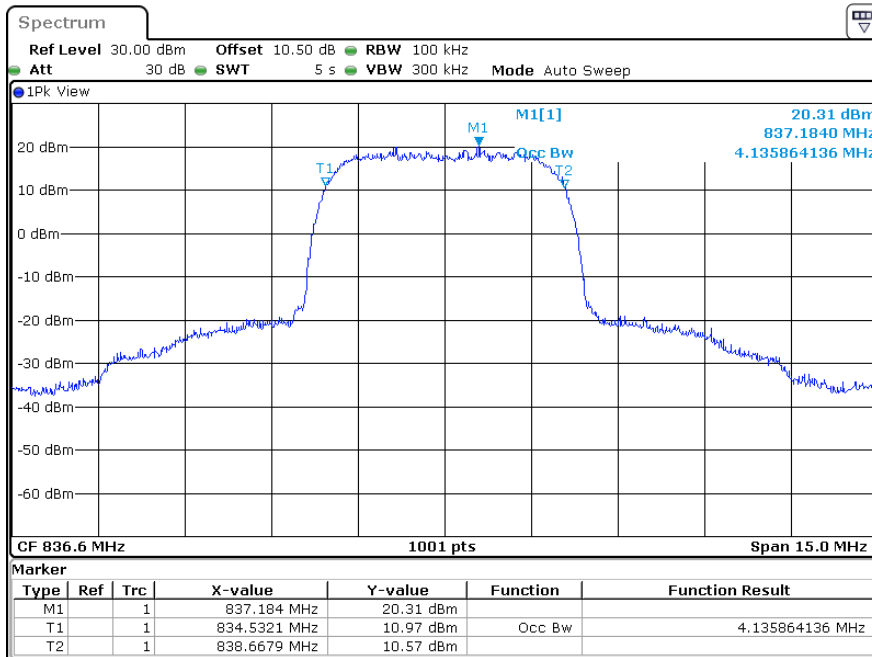
99% Occupied Bandwidth

RMC (BPSK) Mode, Low channel



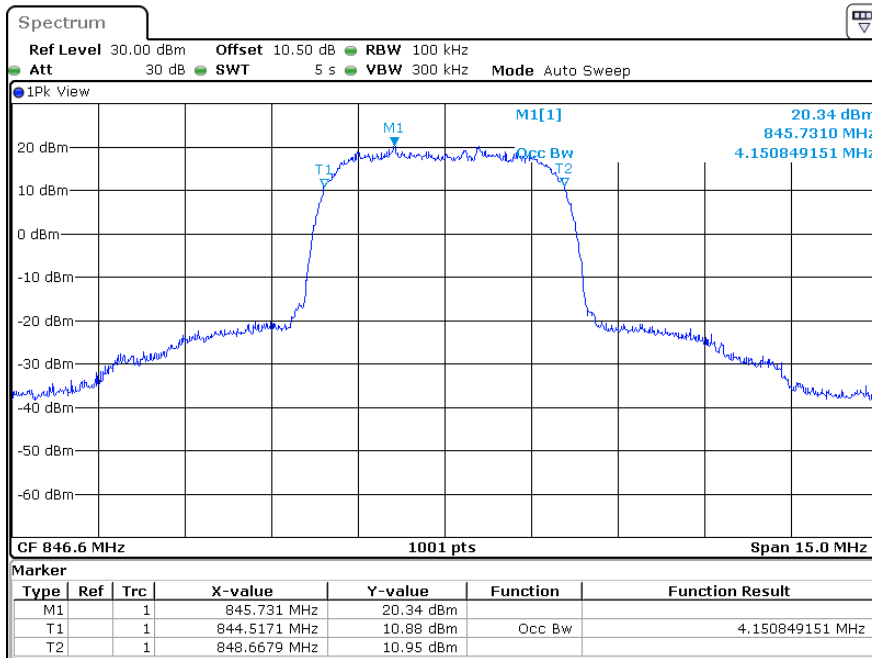
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:27:44

RMC (BPSK) Mode, Middle channel



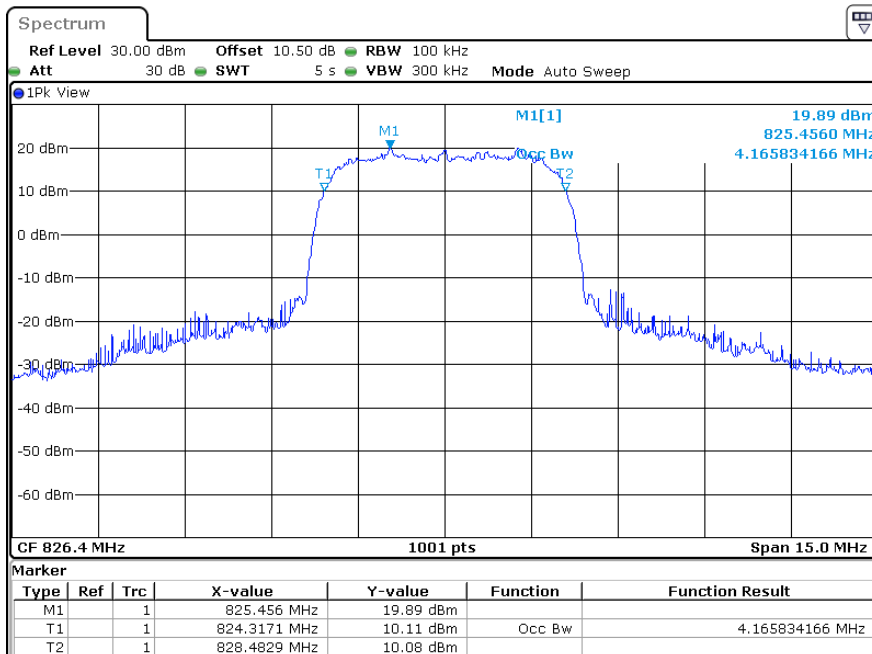
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:44:34

### RMC (BPSK) Mode, High channel



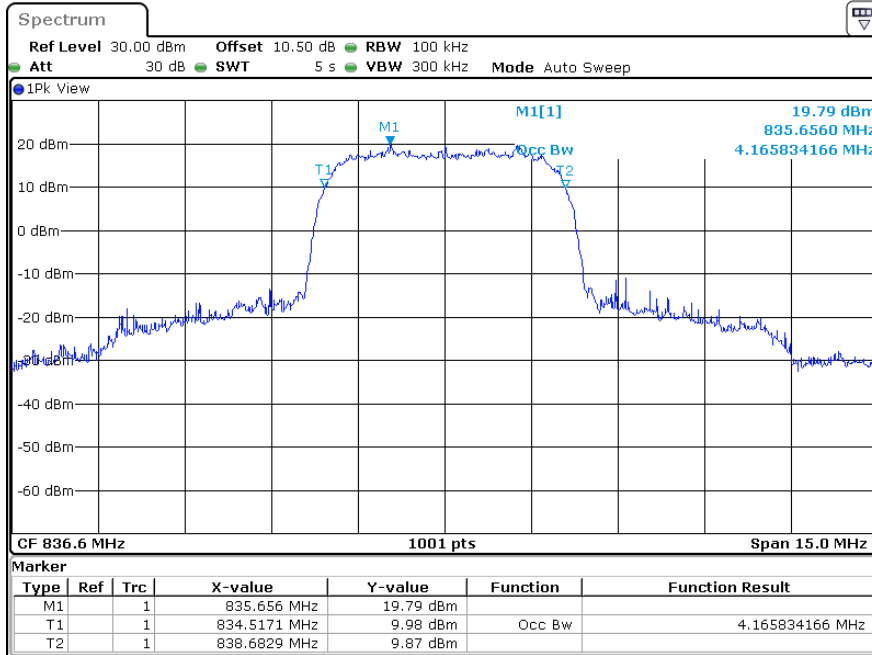
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:31:51

### HSUPA (QPSK) Mode, Low channel



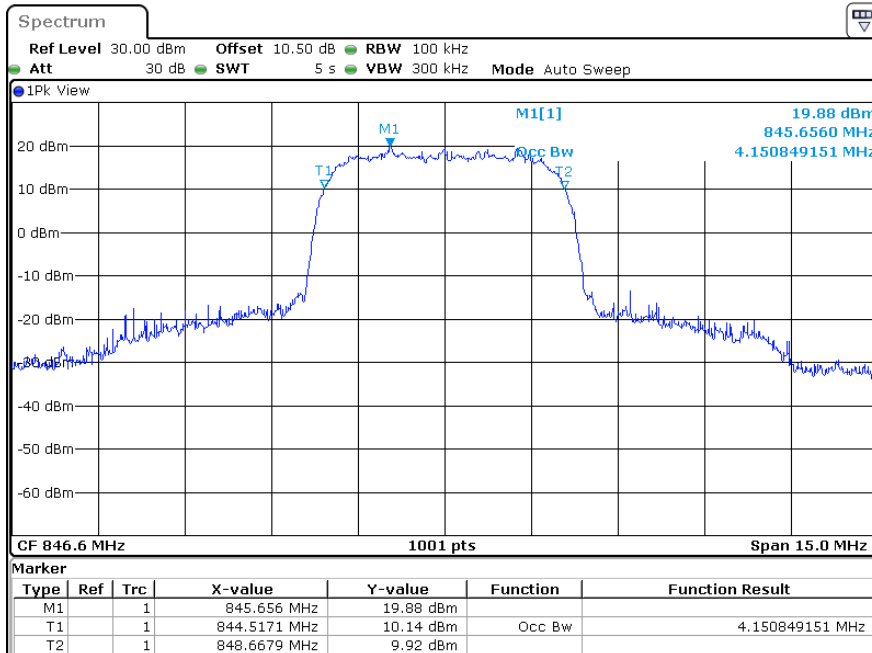
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 20:14:53

**HSUPA (QPSK) Mode, Middle channel**



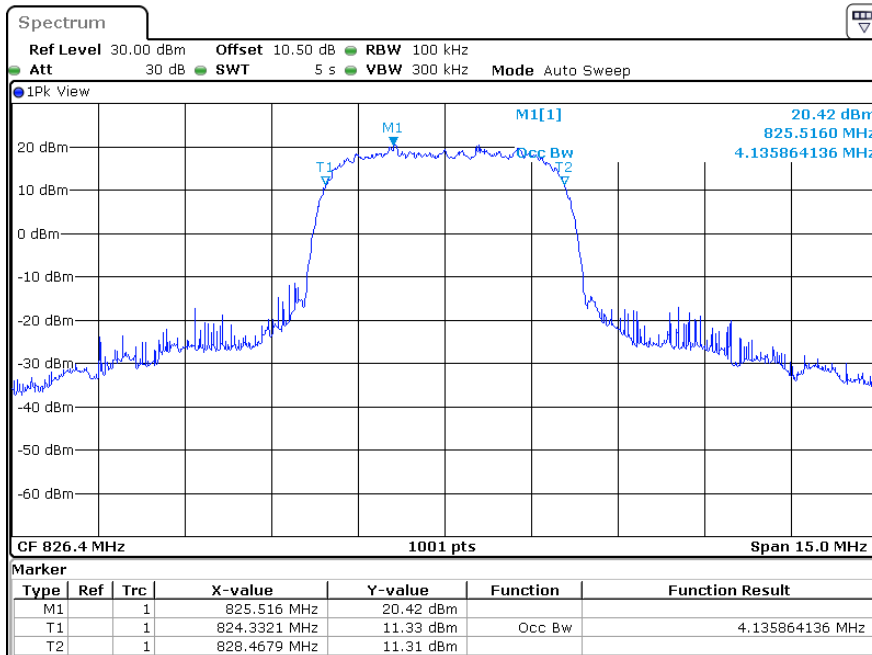
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 20:21:12

**HSUPA (QPSK) Mode, High channel**



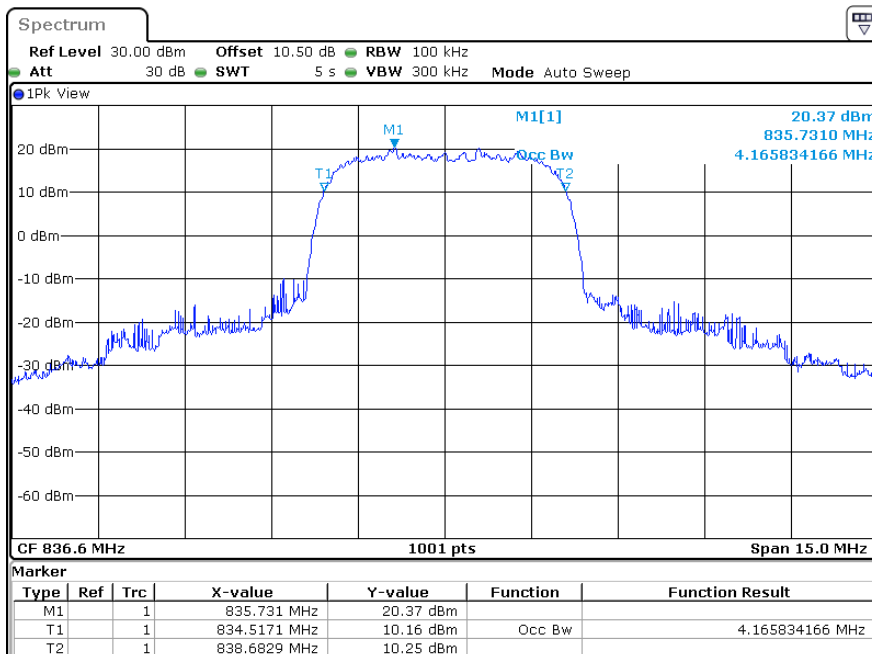
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 20:26:36

### HSDPA (16QAM) Mode, Low channel



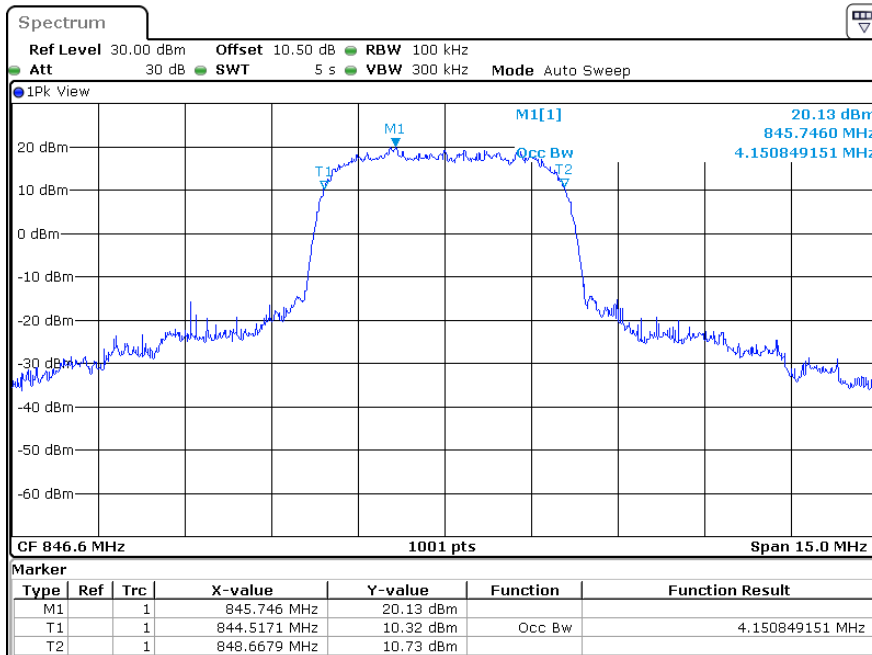
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 20:05:19

### HSDPA (16QAM) Mode, Middle channel



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:51:33

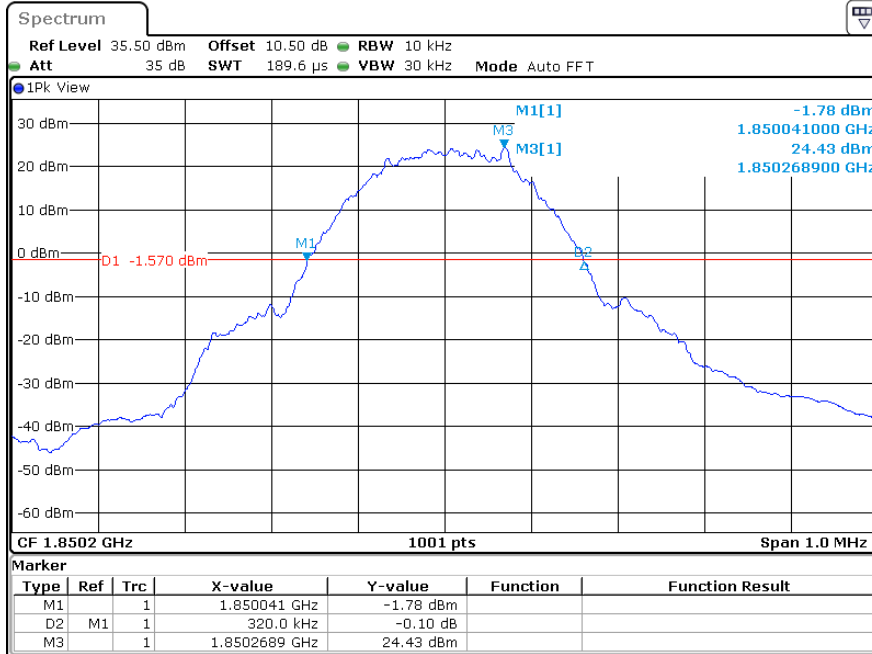
### HSDPA (16QAM) Mode, High channel



ProjectNo.:SZ1231211-74617E    Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:56:44

**PCS Band  
26dB Bandwidth**

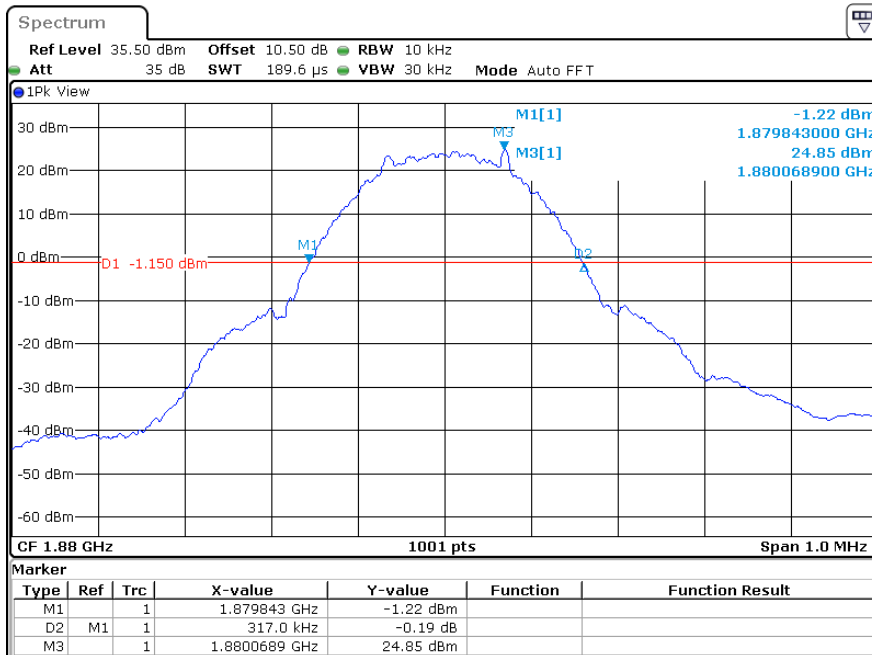
**GSM(GMSK) Mode, Low channel**



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng

Date: 29.FEB.2024 22:16:14

**GSM(GMSK) Mode, Middle channel**

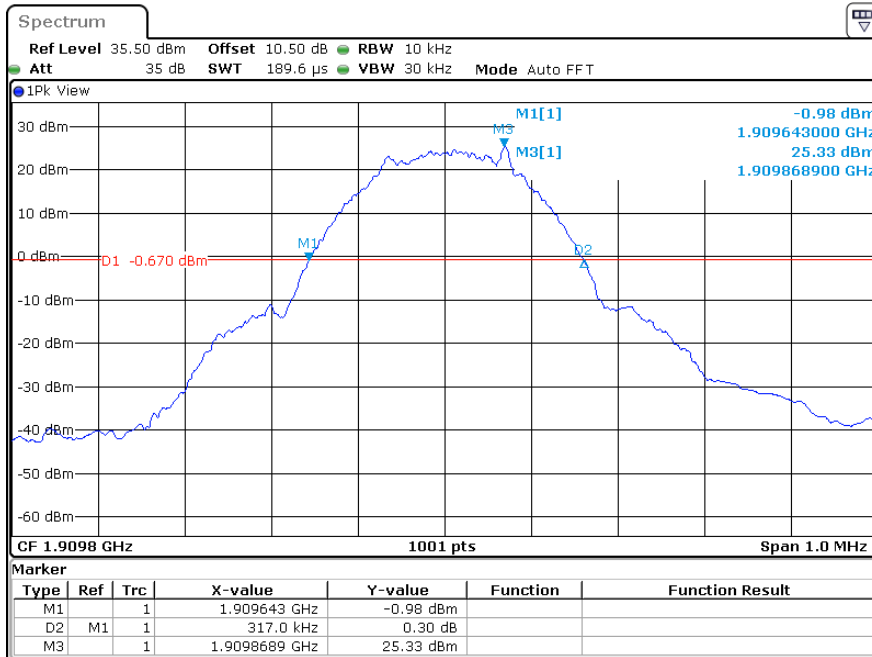


ProjectNo.:SZ1231211-74617E Tester:Jim Cheng

Date: 29.FEB.2024 22:12:45

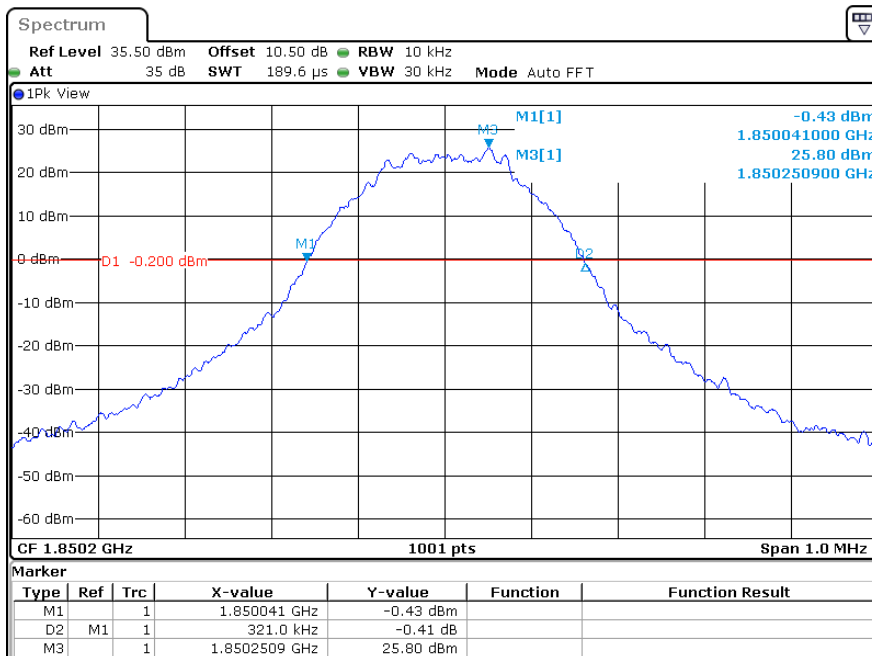


### GSM(GMSK) Mode, High channel



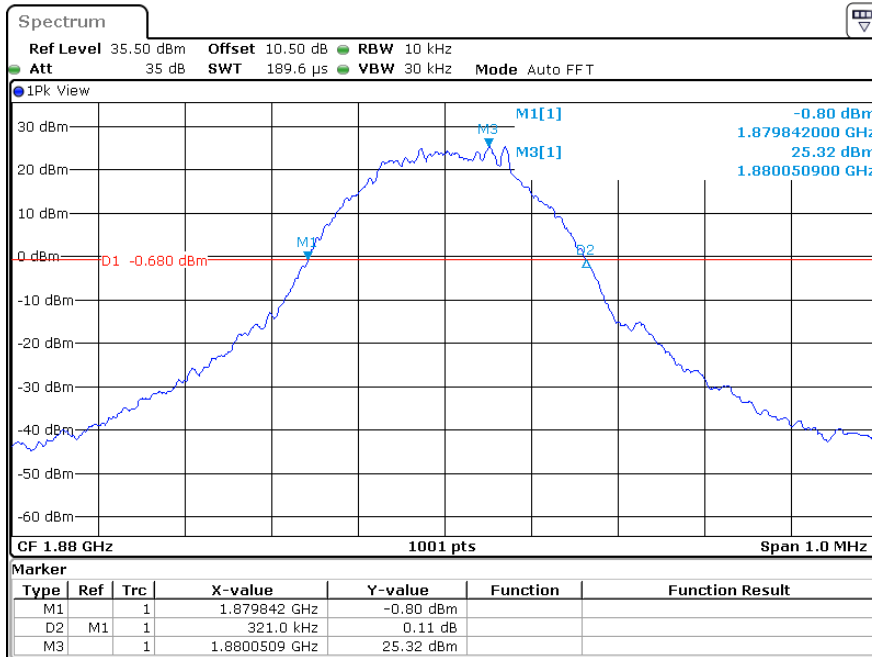
ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 22:08:04

### EDGE Mode, Low channel



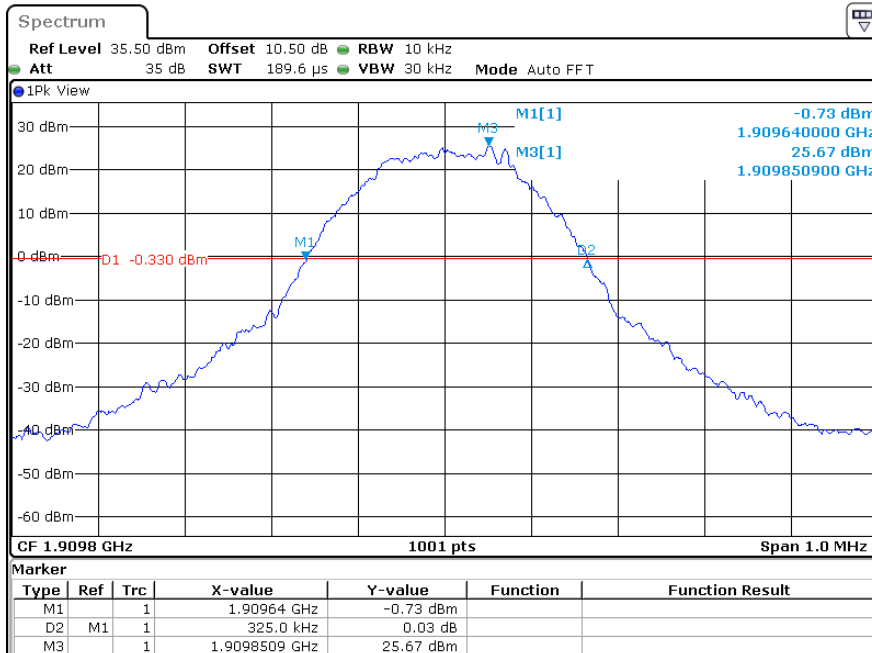
ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 21:19:31

### EDGE Mode, Middle channel



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 22:24:41

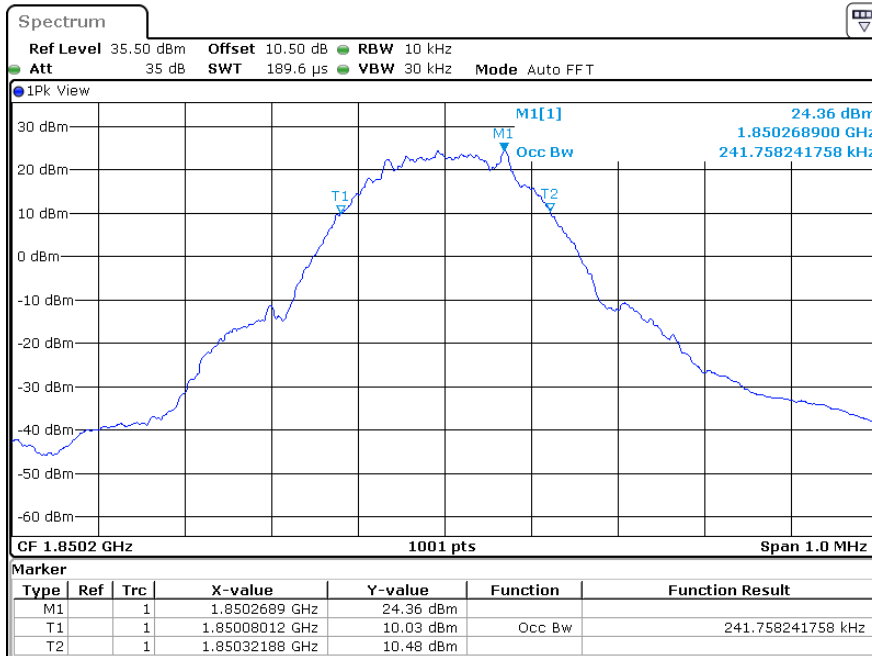
### EDGE Mode, High channel



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 22:28:54

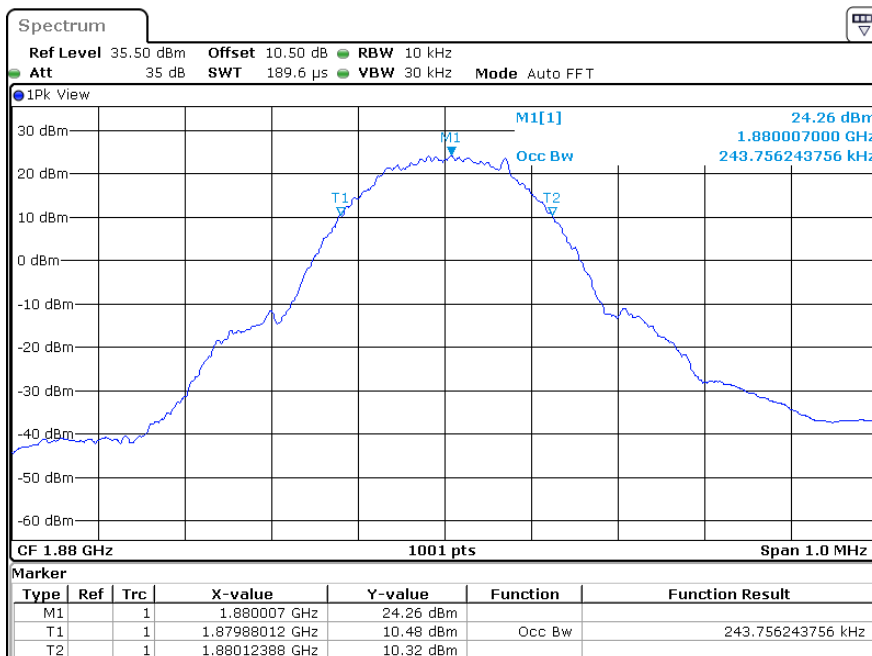
99% Occupied Bandwidth

GSM(GMSK) Mode, Low channel



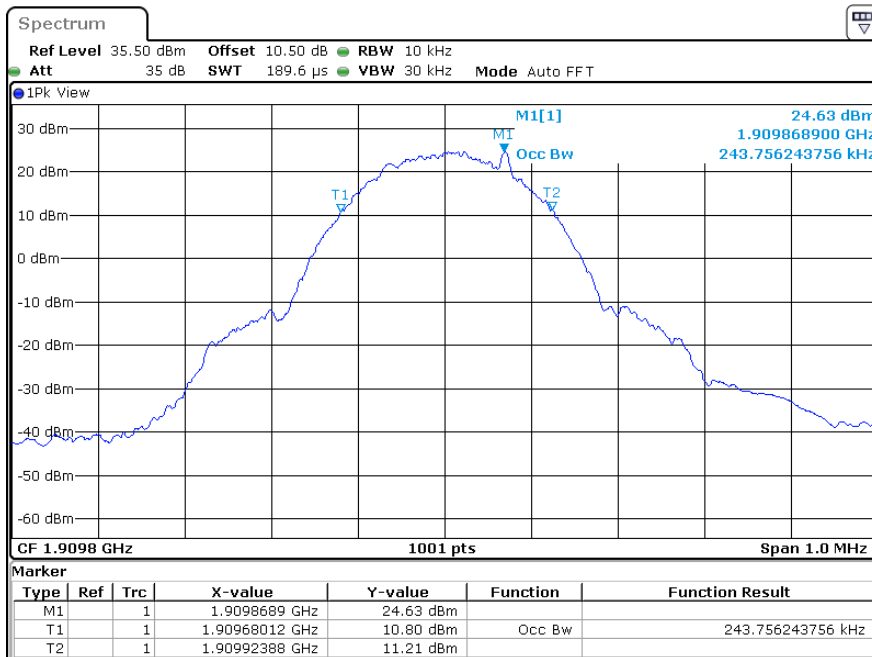
ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 22:15:53

GSM(GMSK) Mode, Middle channel



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 22:12:25

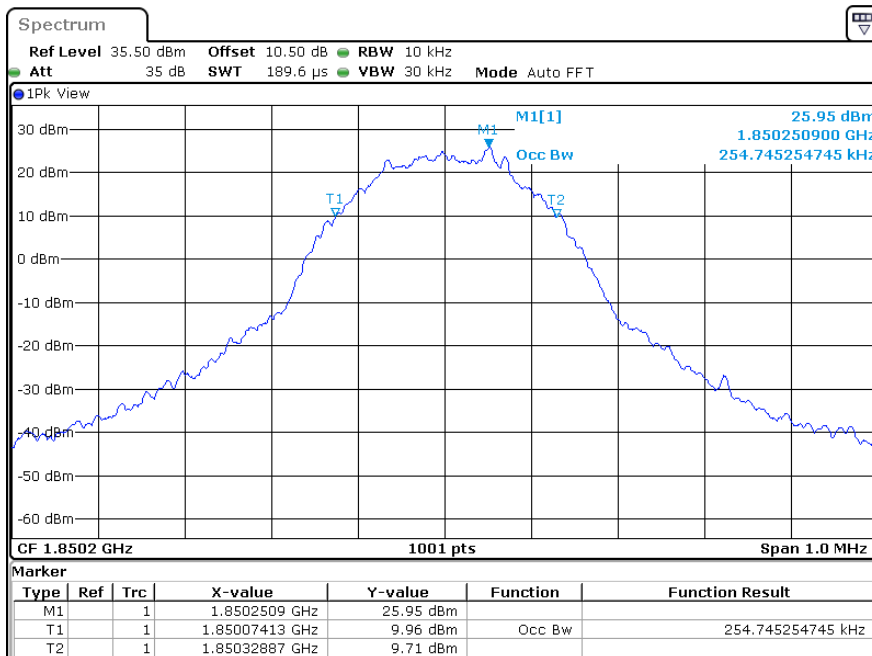
### GSM(GMSK) Mode, High channel



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng

Date: 29.FEB.2024 22:07:44

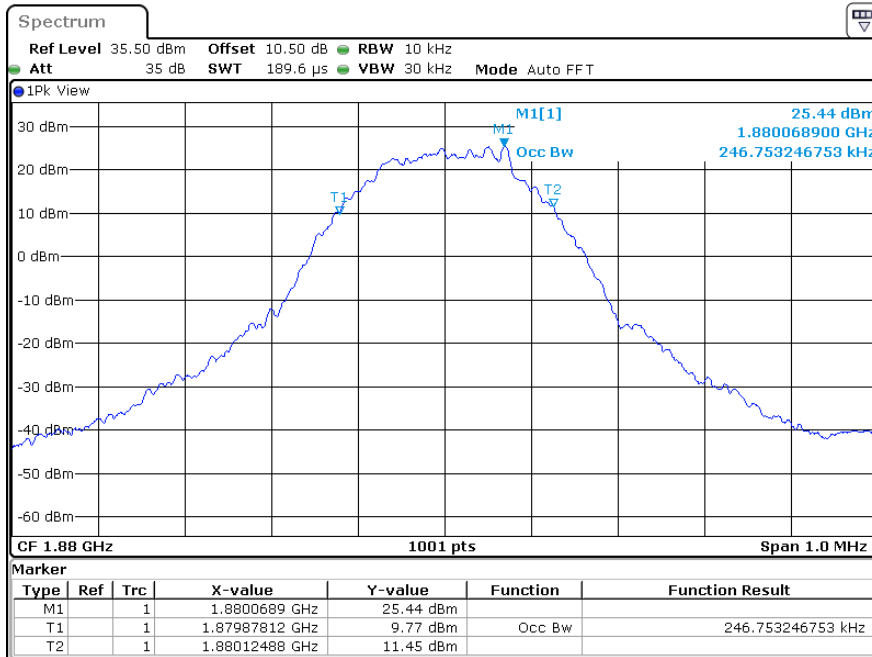
### EDGE Mode, Low channel



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng

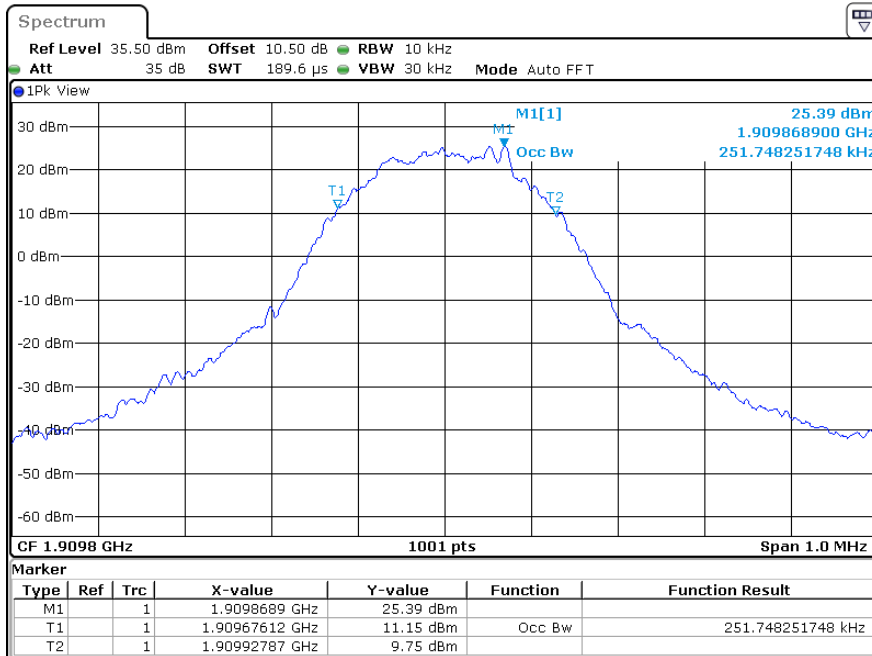
Date: 29.FEB.2024 21:19:09

### EDGE Mode, Middle channel



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 22:24:20

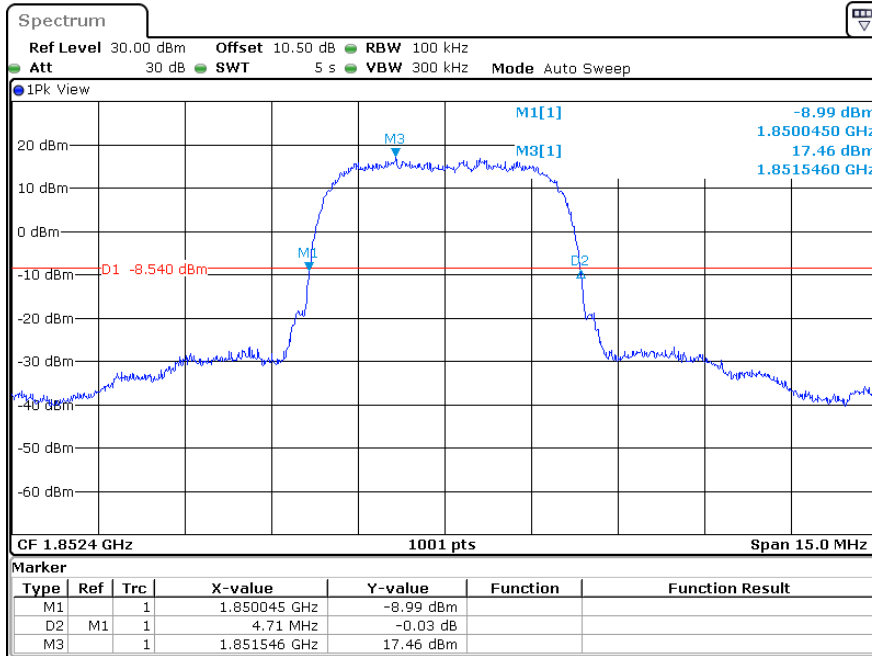
### EDGE Mode, High channel



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 22:28:25

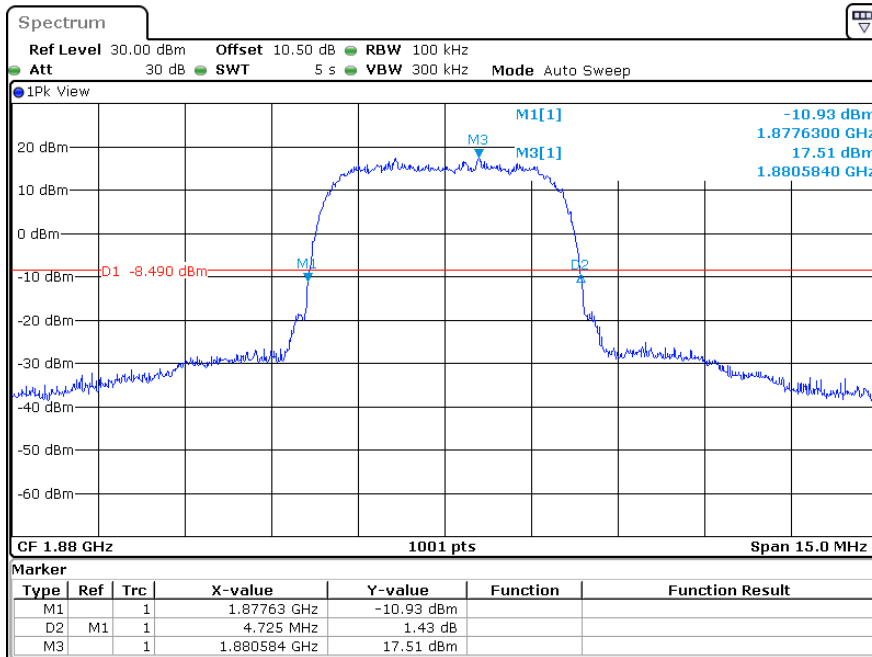
26 dB Bandwidth

RMC (BPSK) Mode, Low channel



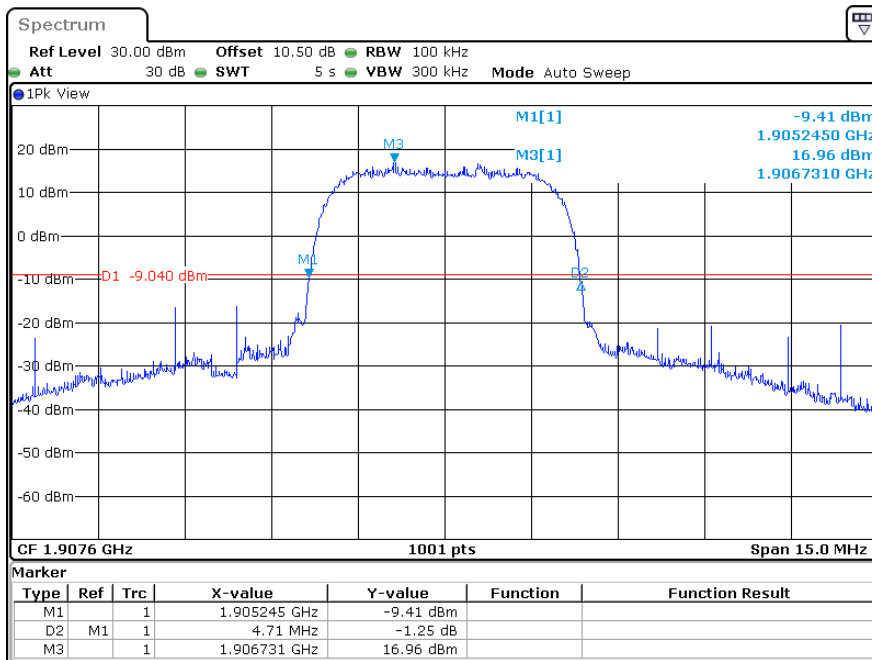
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 16:39:44

RMC (BPSK) Mode, Middle channel



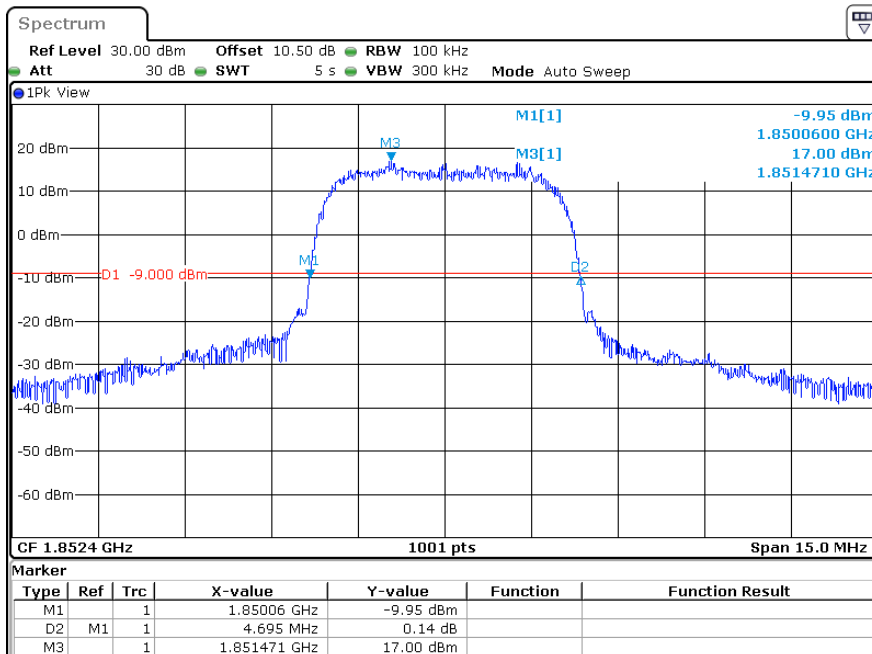
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 16:48:17

### RMC (BPSK) Mode, High channel



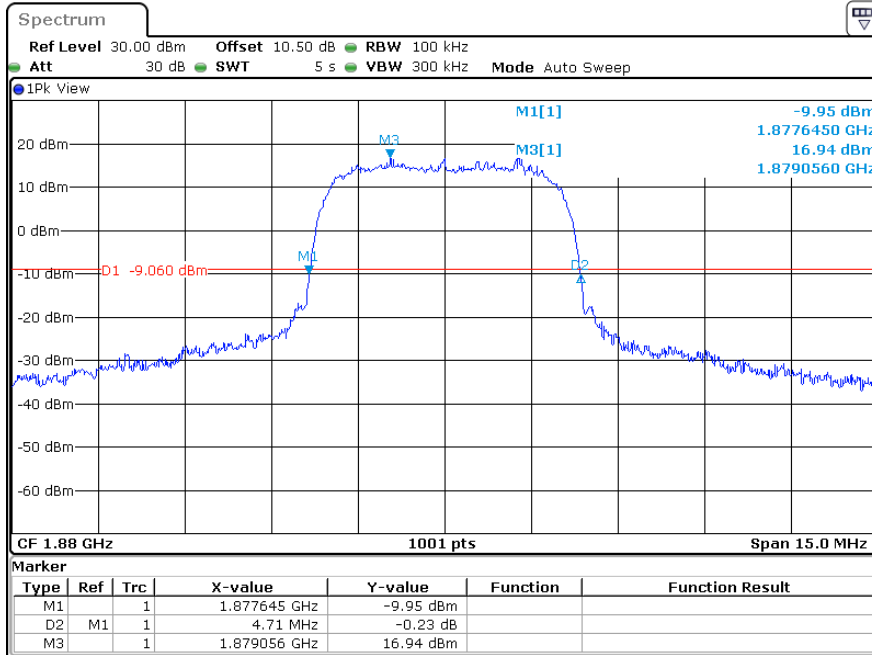
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 16:51:44

### HSUPA (QPSK) Mode, Low channel



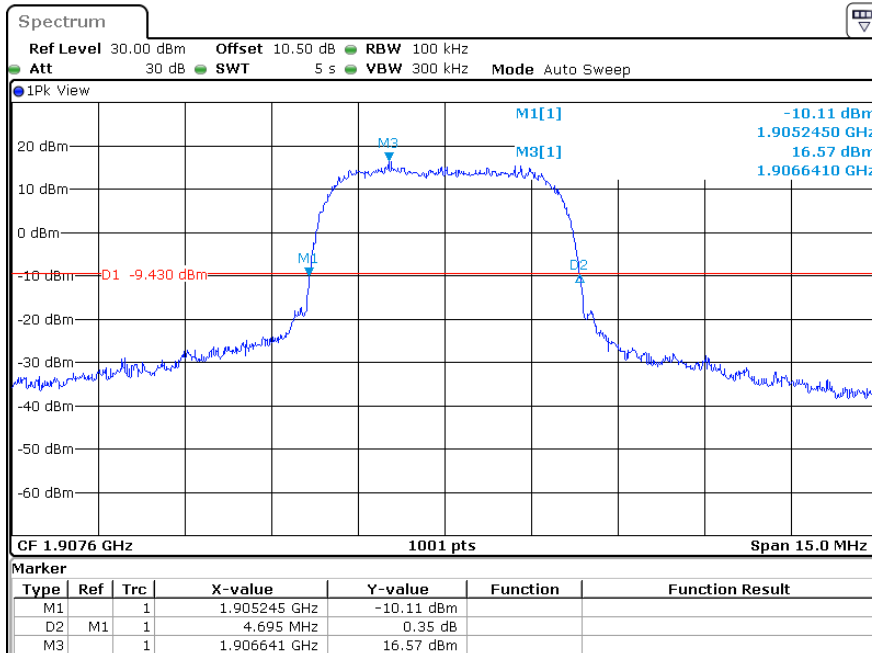
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 17:24:37

HSUPA (QPSK) Mode, Middle channel



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 17:31:03

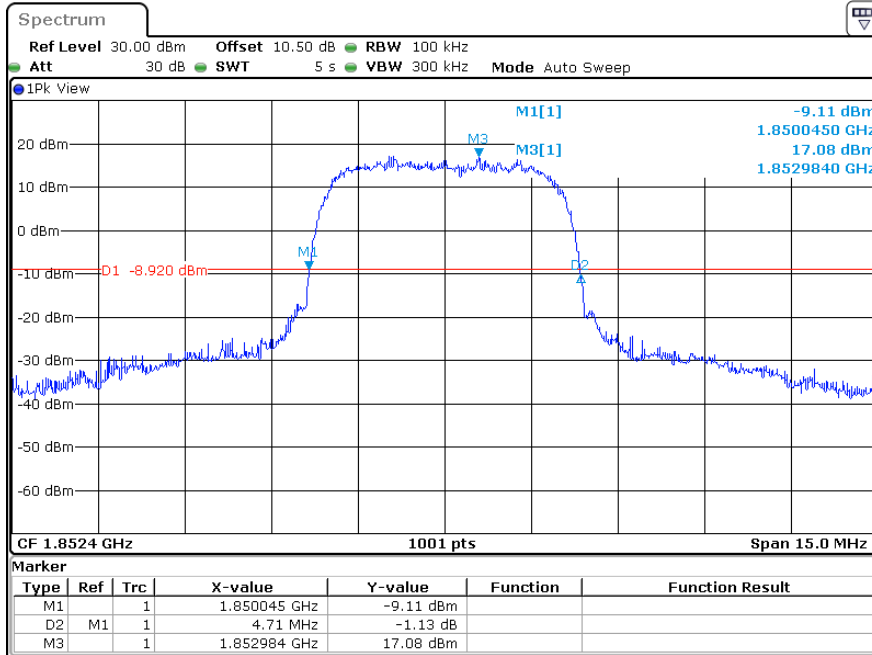
HSUPA (QPSK) Mode, High channel



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 20:34:54

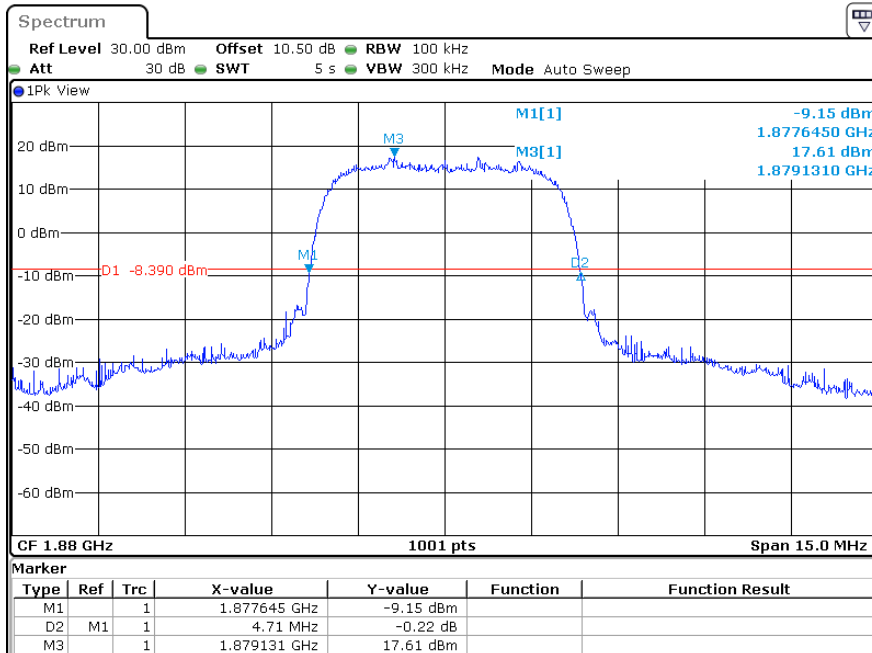


### HSDPA (16QAM) Mode, Low channel



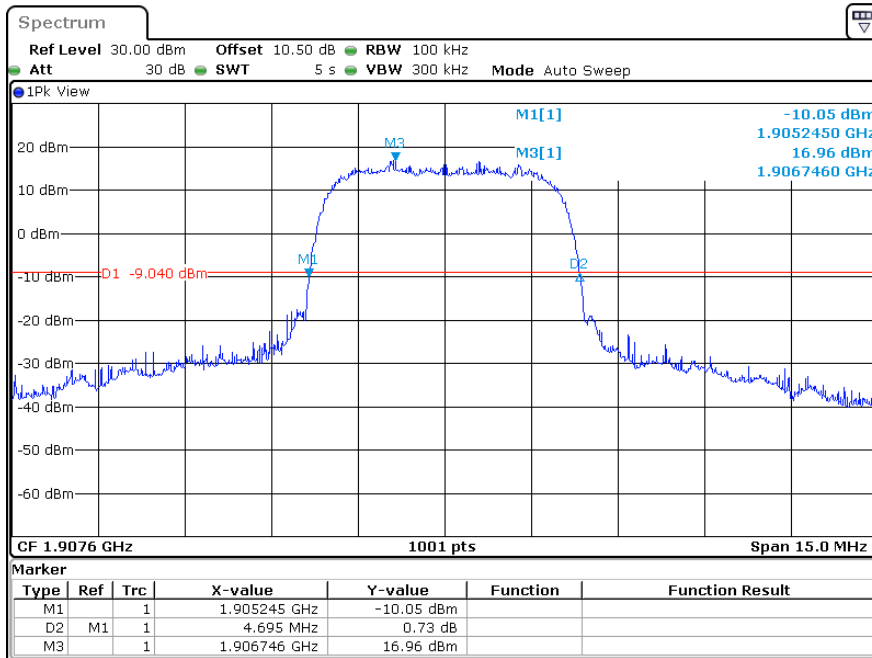
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 17:11:49

### HSDPA (16QAM) Mode, Middle channel



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 17:06:40

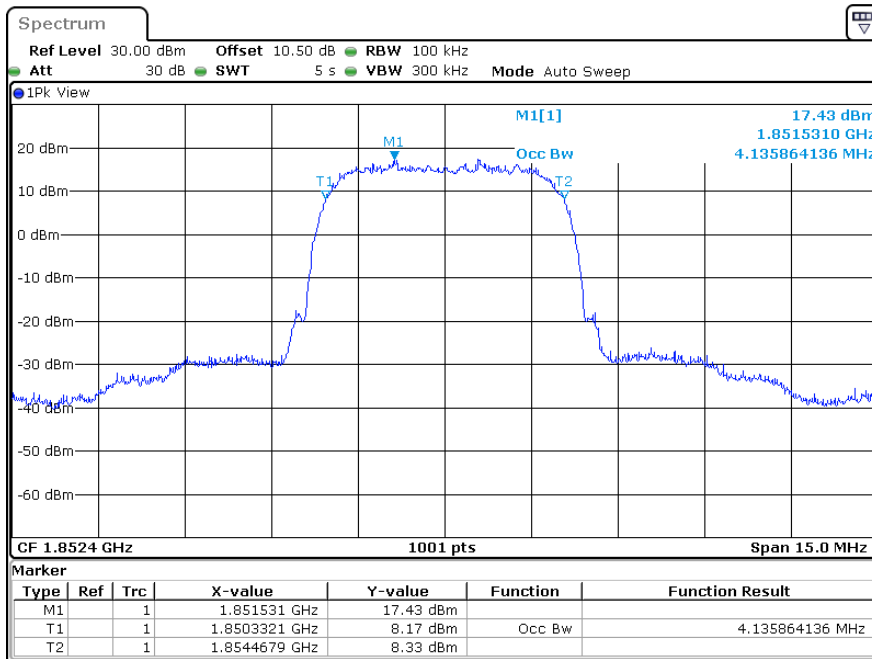
HSDPA (16QAM) Mode, High channel



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 16:57:12

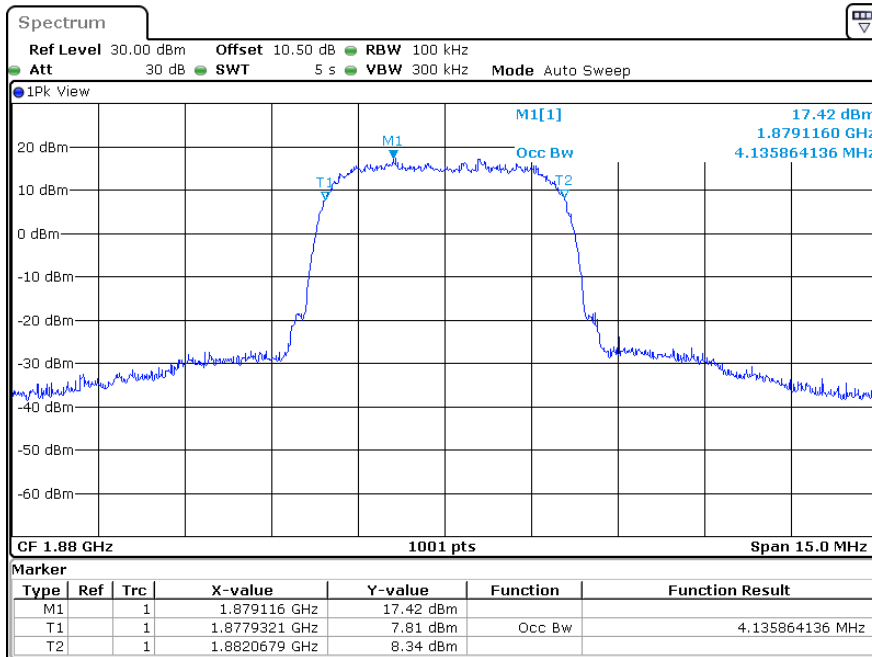
99% Occupied Bandwidth

RMC (BPSK) Mode, Low channel



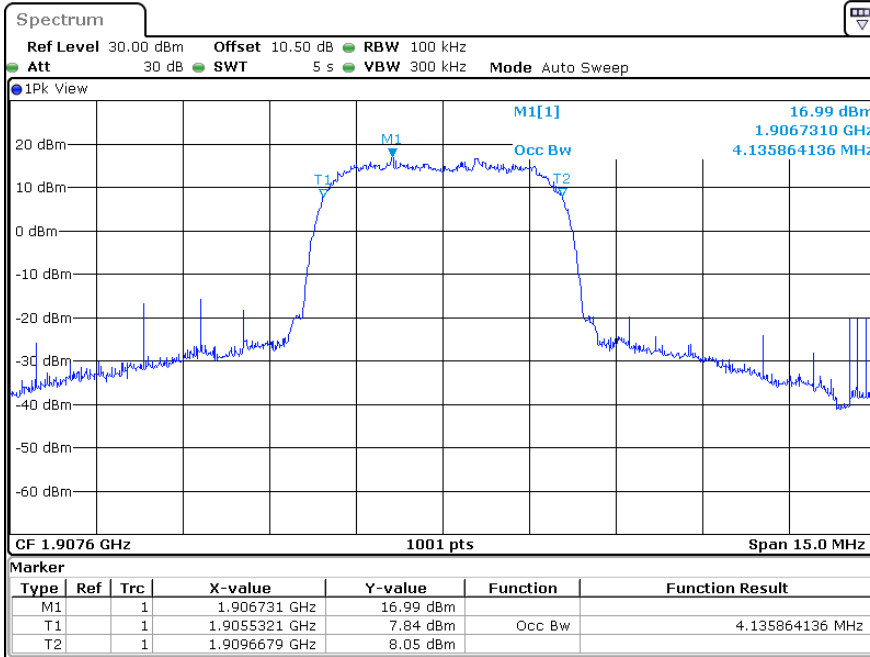
ProjectNo.:SZ1231211-74617E    Tester:Bamboo Zhan  
 Date: 1.MAR.2024 16:39:18

RMC (BPSK) Mode, Middle channel



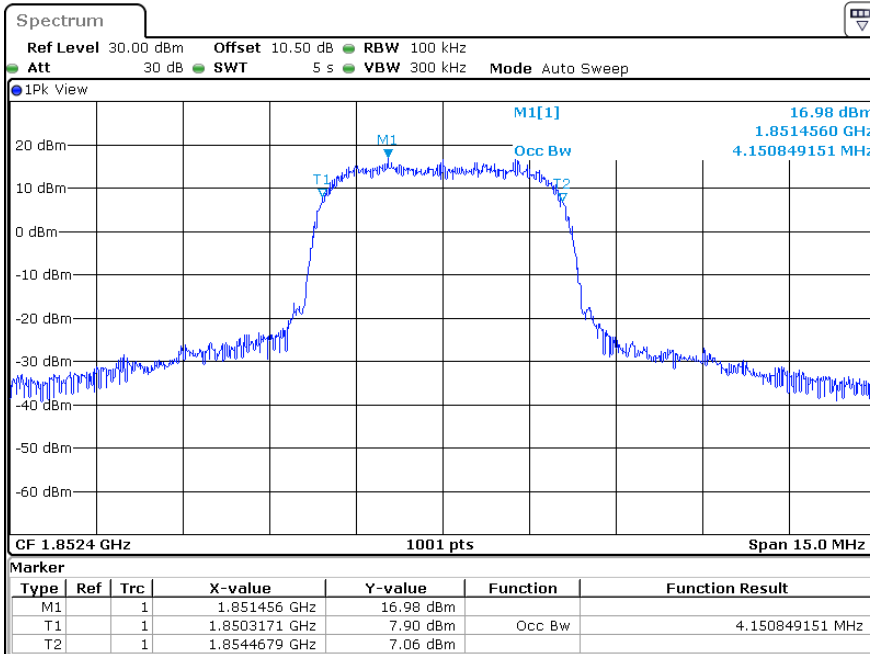
ProjectNo.:SZ1231211-74617E    Tester:Bamboo Zhan  
 Date: 1.MAR.2024 16:47:50

### RMC (BPSK) Mode, High channel



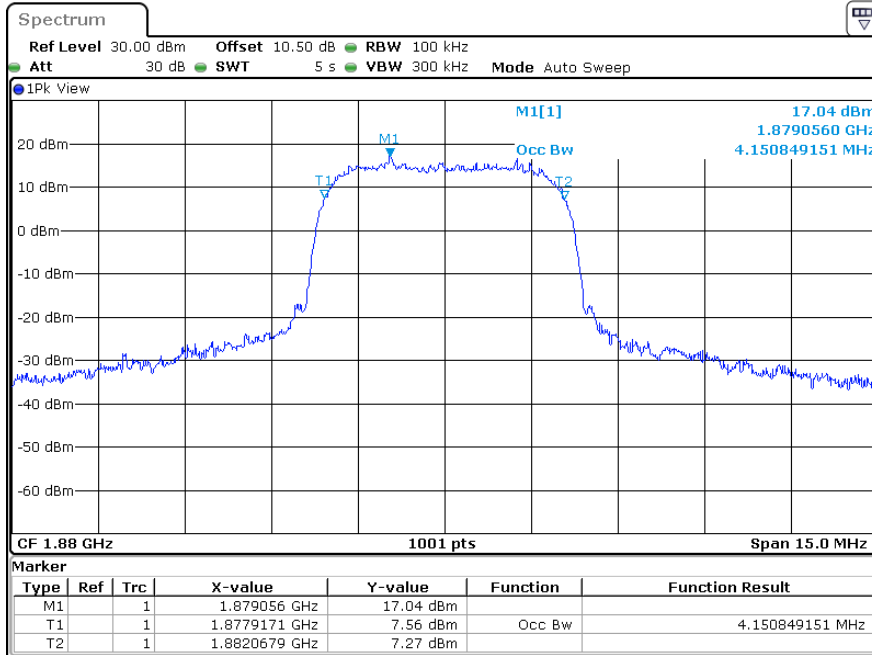
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 16:51:23

### HSUPA (QPSK) Mode, Low channel



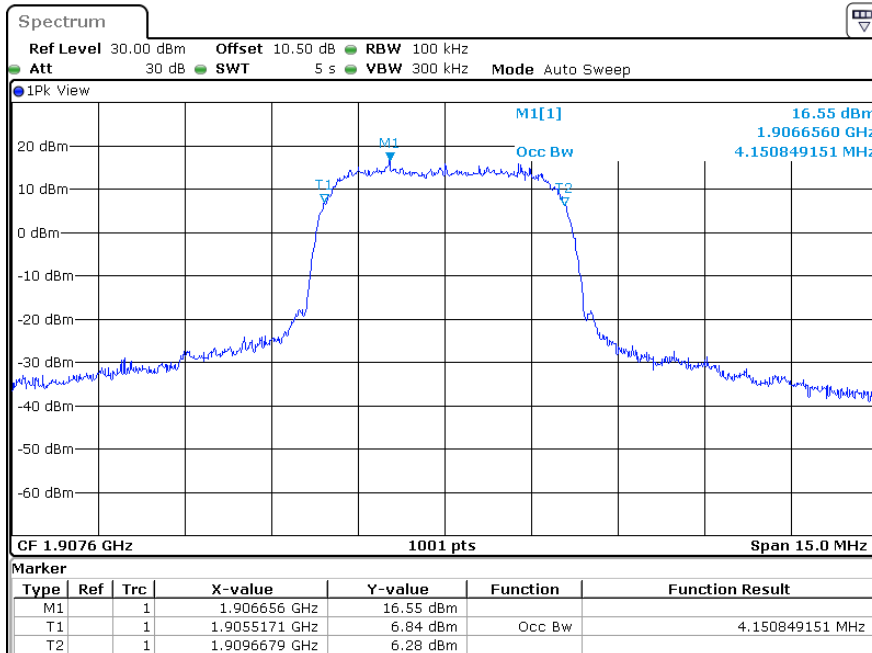
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 17:23:56

**HSUPA (QPSK) Mode, Middle channel**



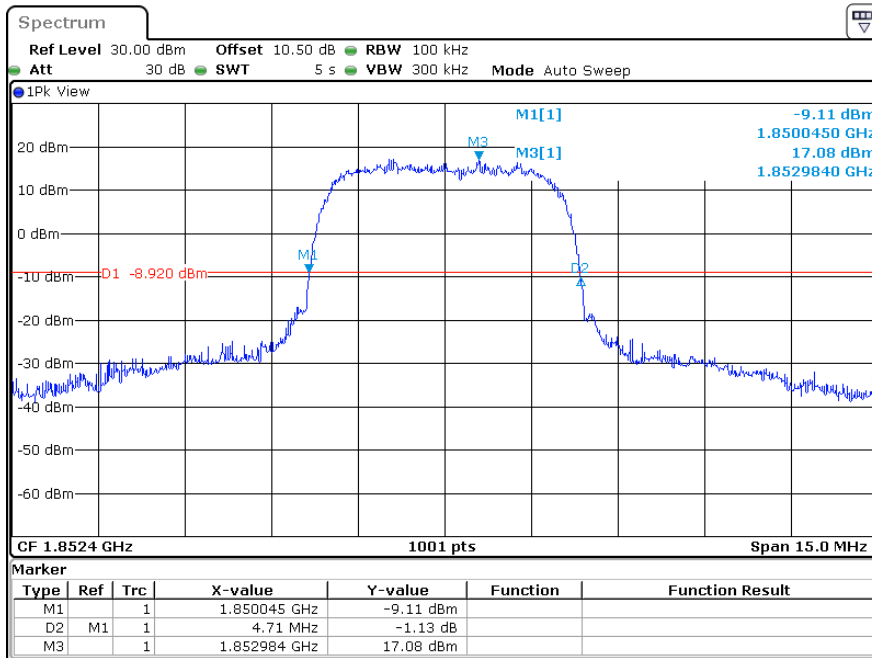
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 17:30:22

**HSUPA (QPSK) Mode, High channel**



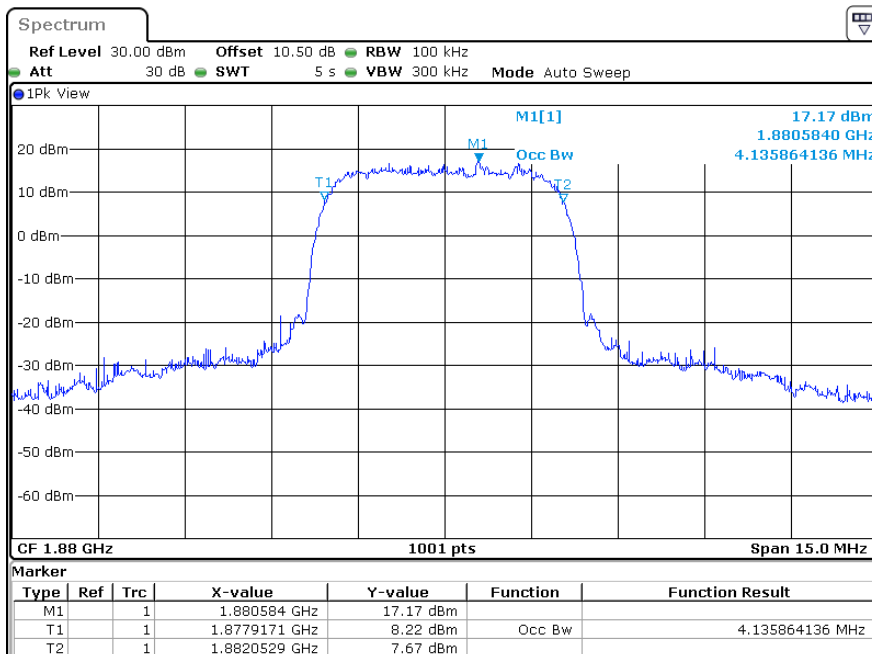
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 20:34:14

### HSDPA (16QAM) Mode, Low channel



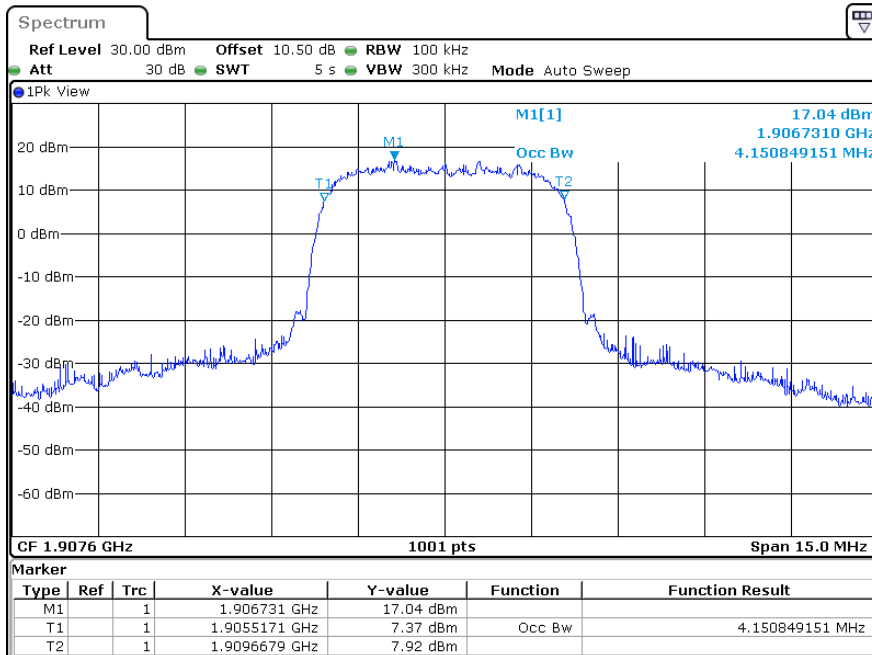
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 17:11:49

### HSDPA (16QAM) Mode, Middle channel



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 17:05:29

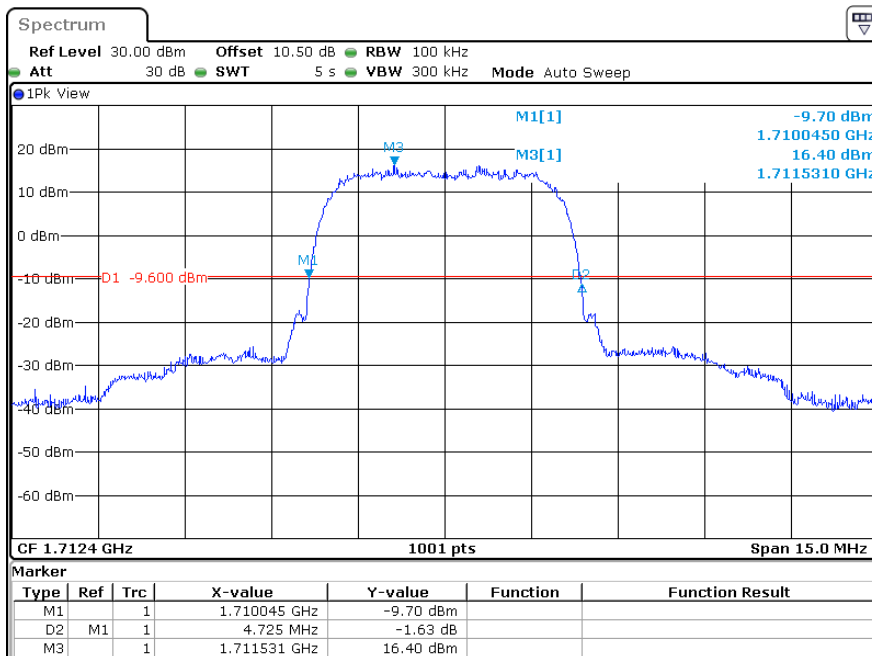
### HSDPA (16QAM) Mode, High channel



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 16:56:16

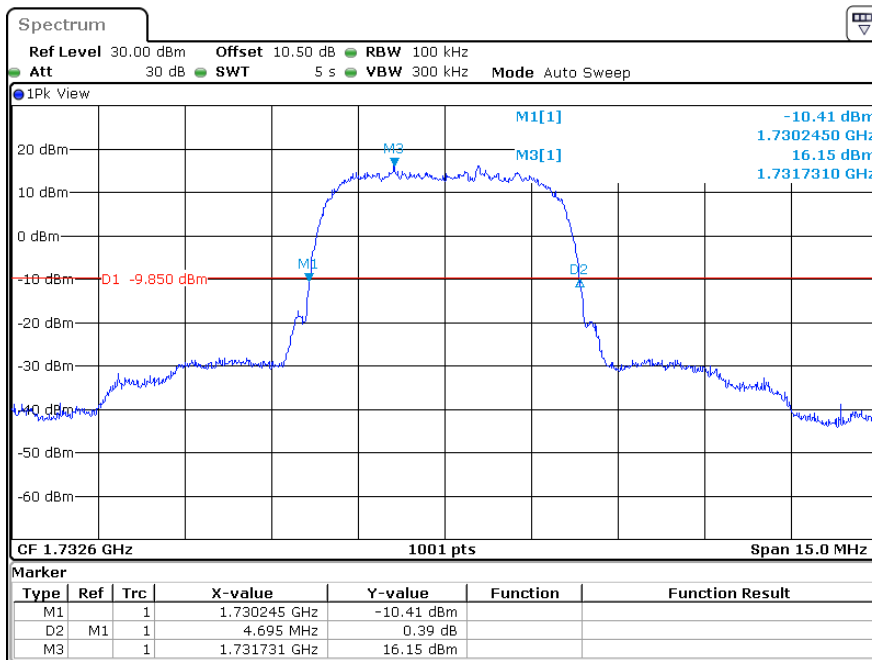
### AWS Band 26 dB Bandwidth

### RMC (BPSK) Mode, Low channel



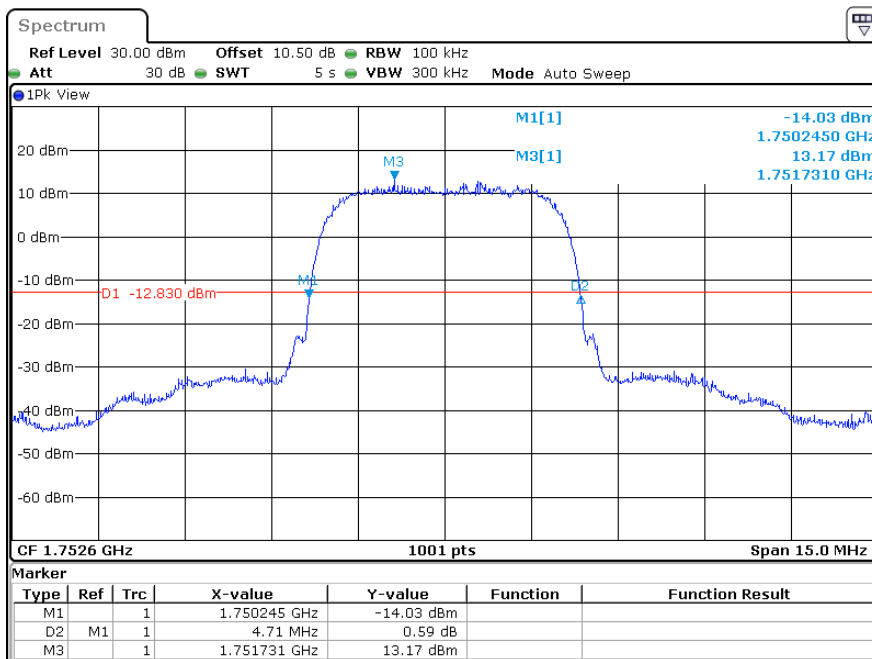
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:17:44

### RMC (BPSK) Mode, Middle channel



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:22:38

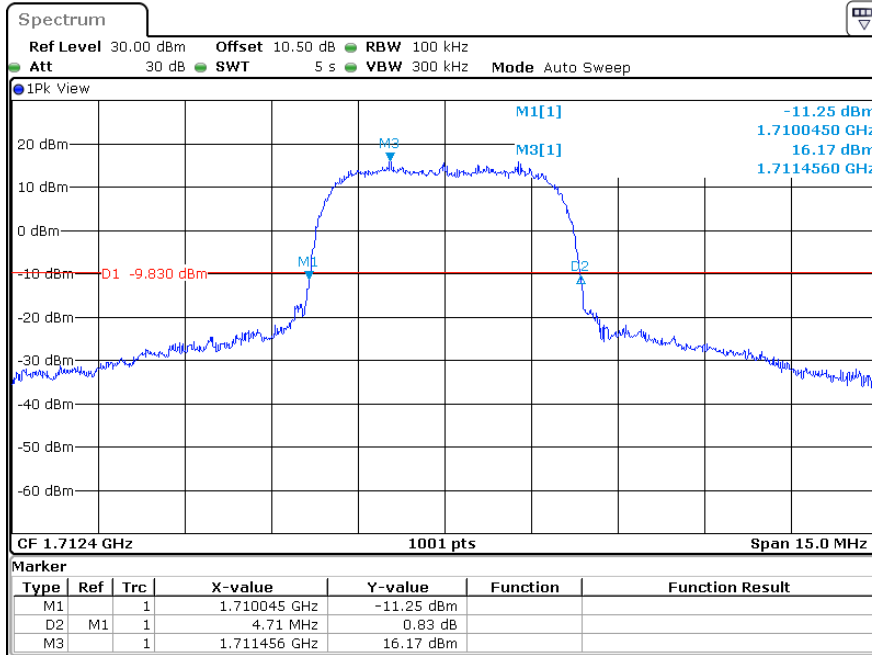
### RMC (BPSK) Mode, High channel



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:11:17

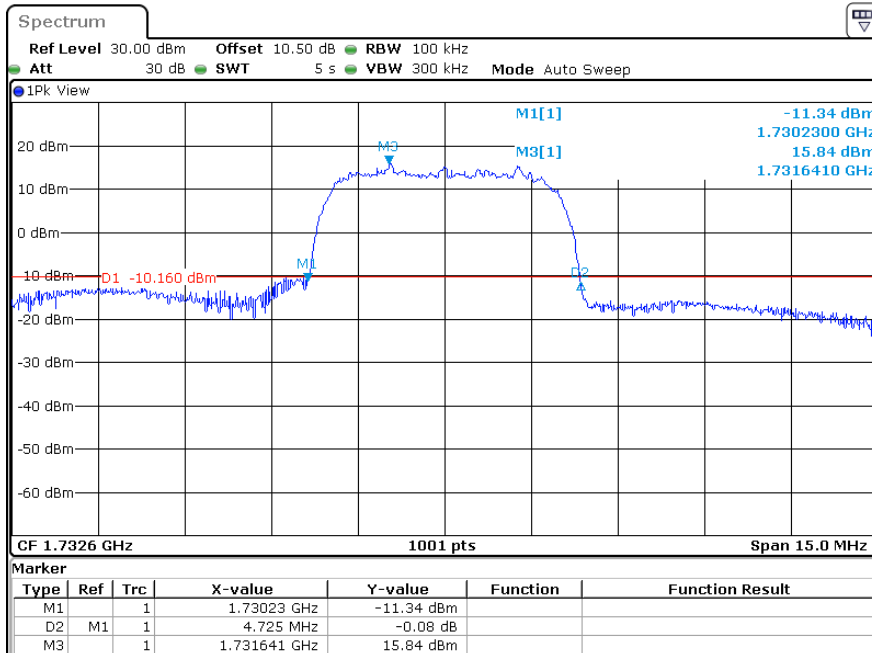


### HSUPA (QPSK) Mode, Low channel



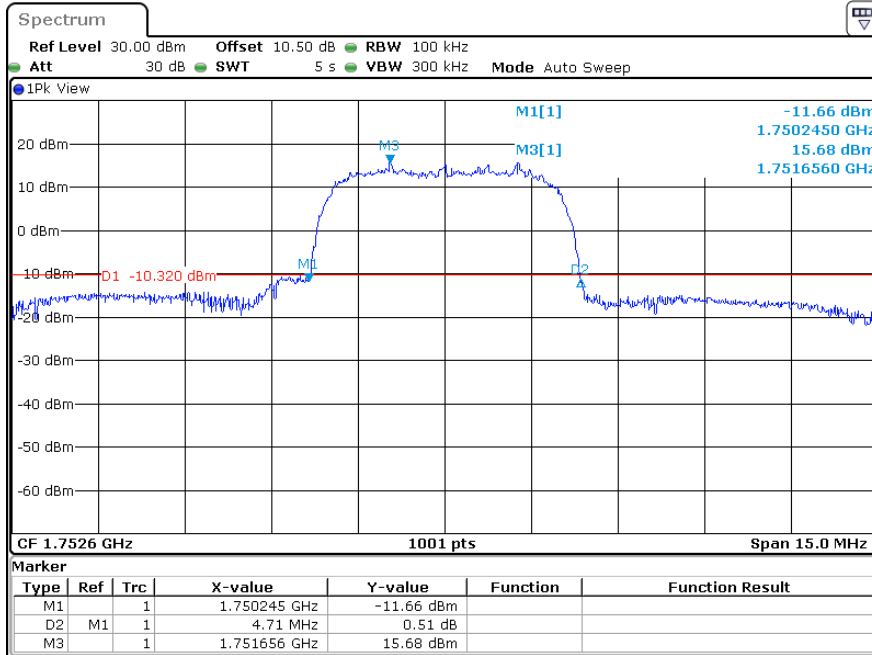
ProjectNo.:SZ1231211-74617E    Tester:Bamboo Zhan  
 Date: 1.MAR.2024 17:59:13

### HSUPA (QPSK) Mode, Middle channel



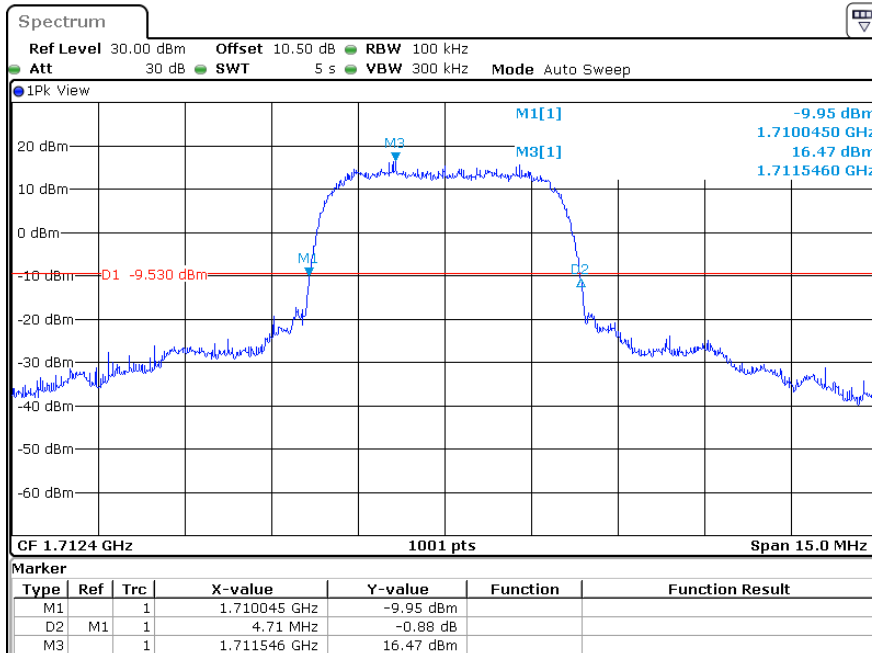
ProjectNo.:SZ1231211-74617E    Tester:Bamboo Zhan  
 Date: 1.MAR.2024 18:21:17

**HSUPA (QPSK) Mode, High channel**



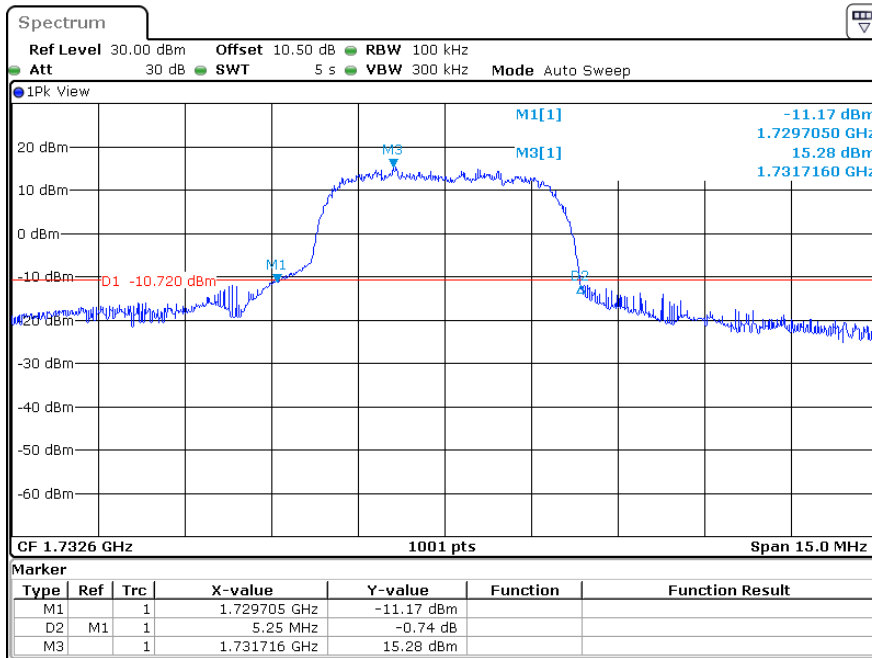
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 18:05:24

**HSDPA (16QAM) Mode, Low channel**



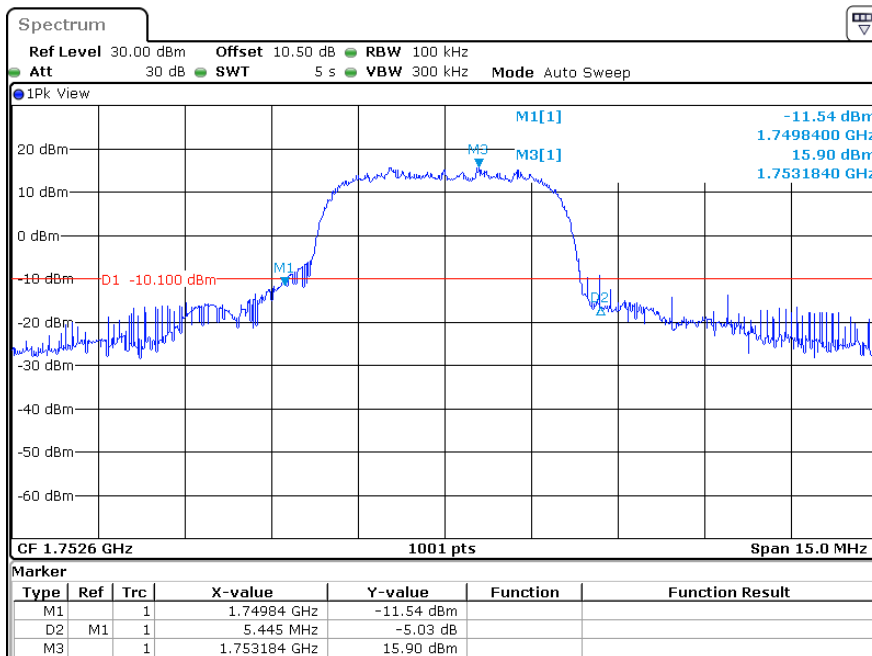
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 18:52:26

### HSDPA (16QAM) Mode, Middle channel



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 18:39:26

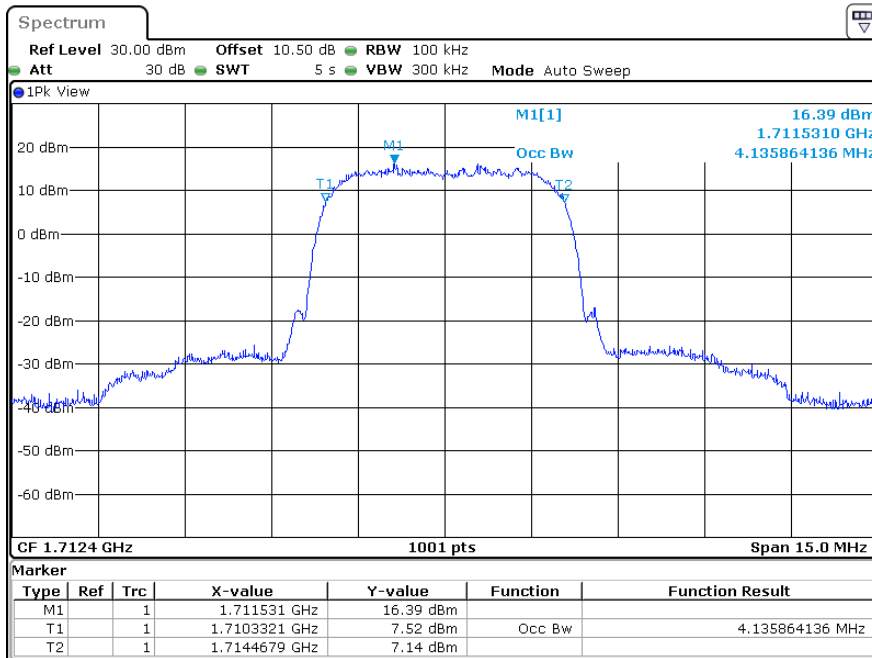
### HSDPA (16QAM) Mode, High channel



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 18:58:41

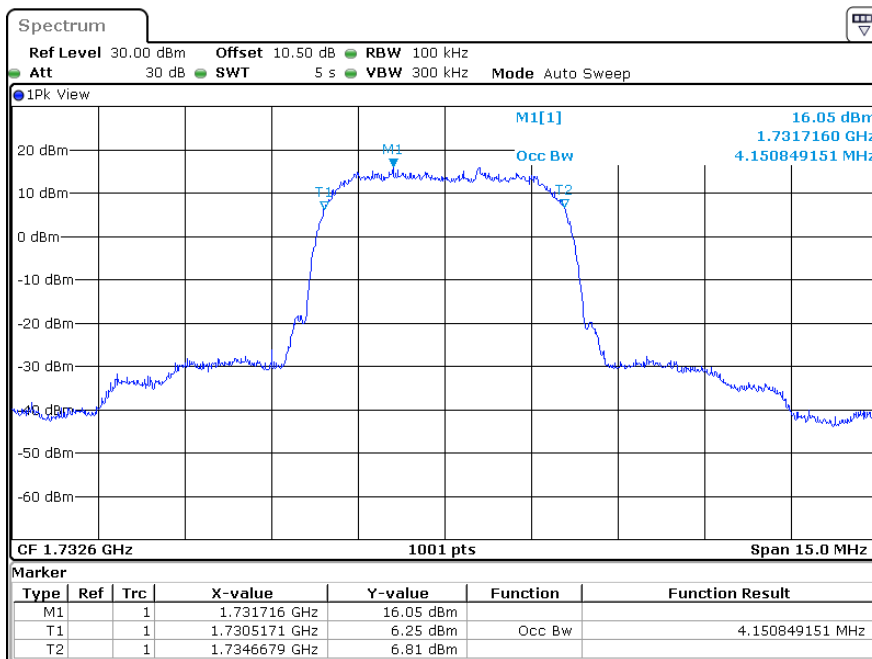
99% Occupied Bandwidth

RMC (BPSK) Mode, Low channel



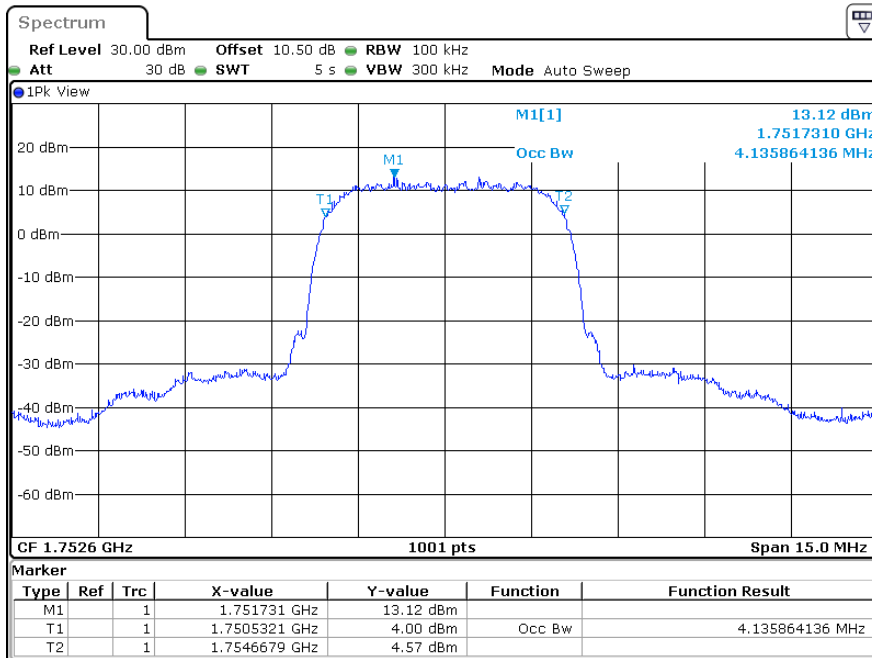
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:17:19

RMC (BPSK) Mode, Middle channel



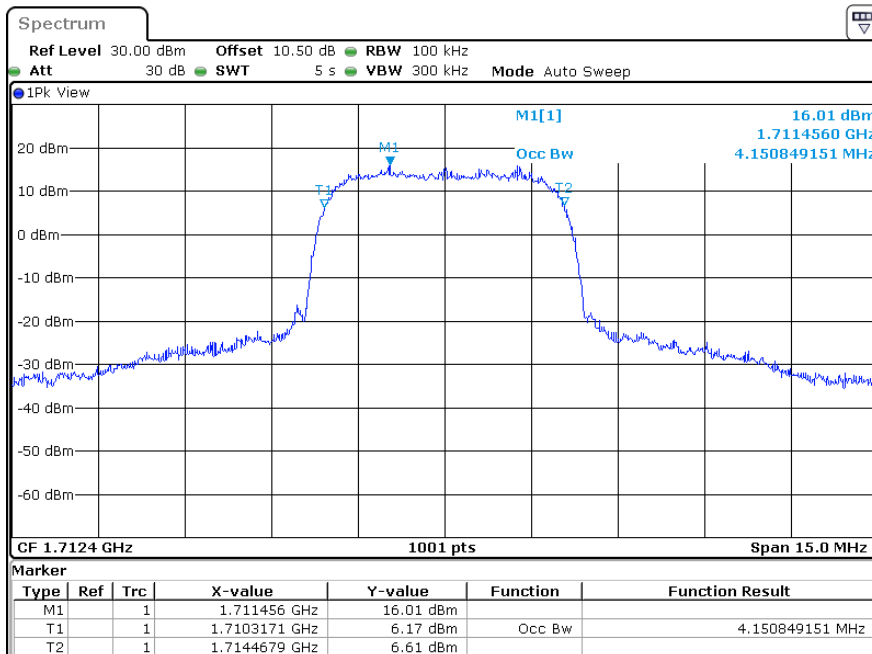
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:22:13

### RMC (BPSK) Mode, High channel



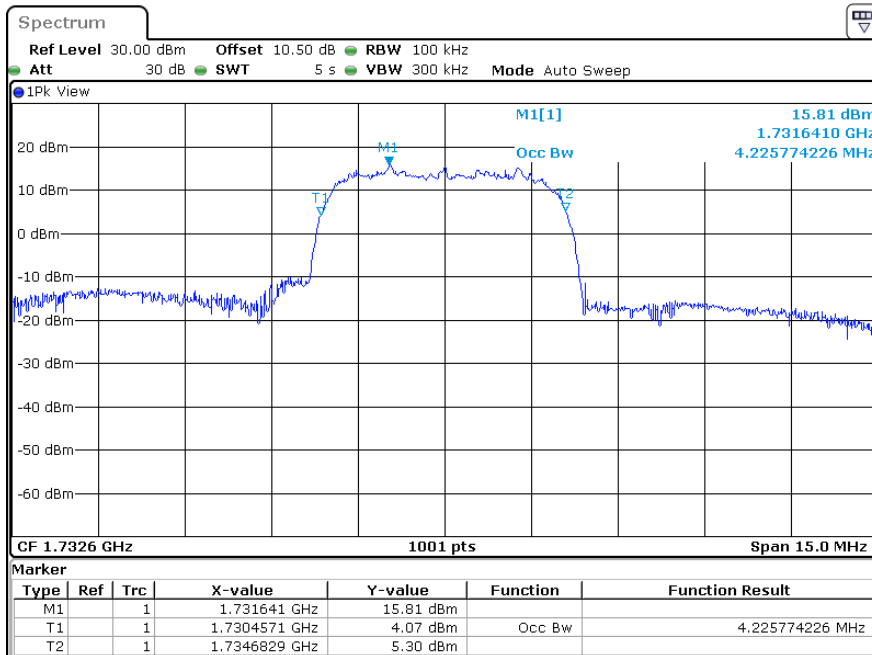
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:10:52

### HSUPA (QPSK) Mode, Low channel



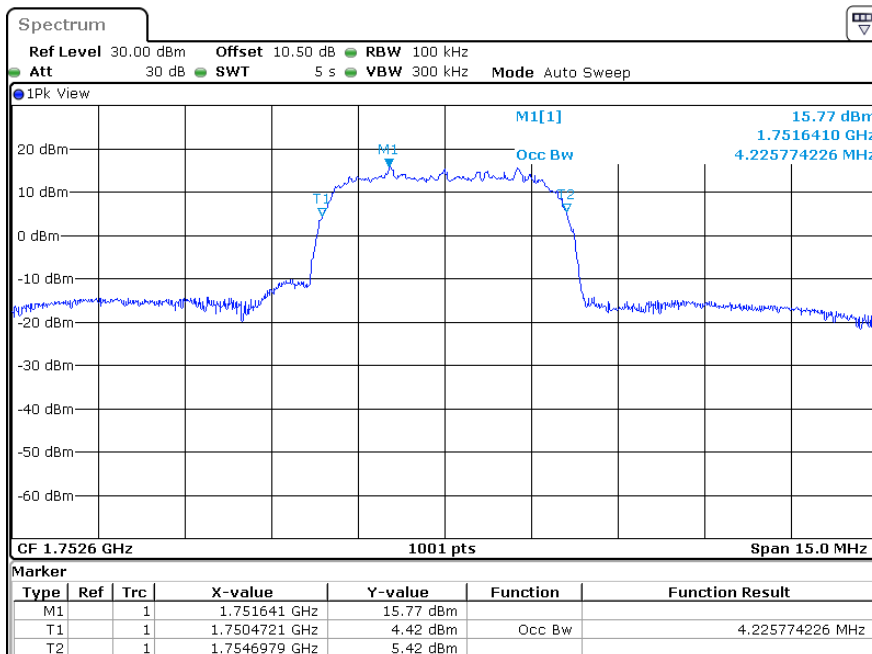
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 17:58:31

### HSUPA (QPSK) Mode, Middle channel



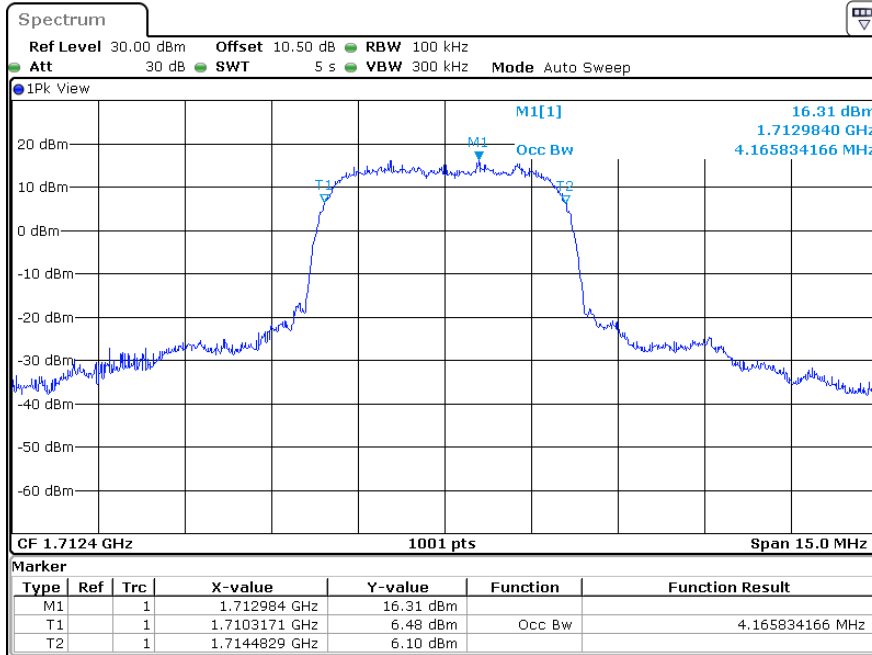
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 18:19:20

### HSUPA (QPSK) Mode, High channel



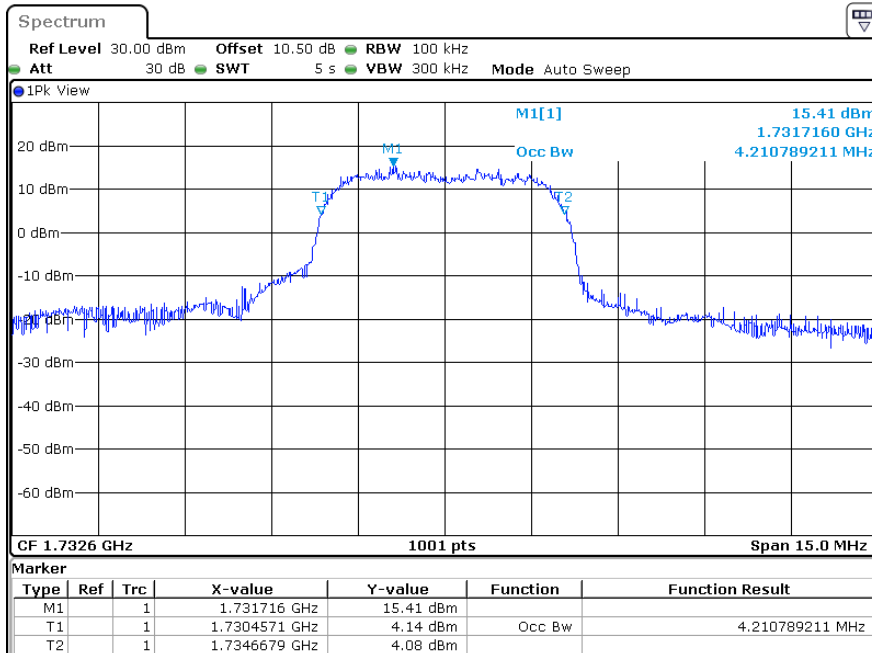
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 18:04:28

**HSDPA (16QAM) Mode, Low channel**



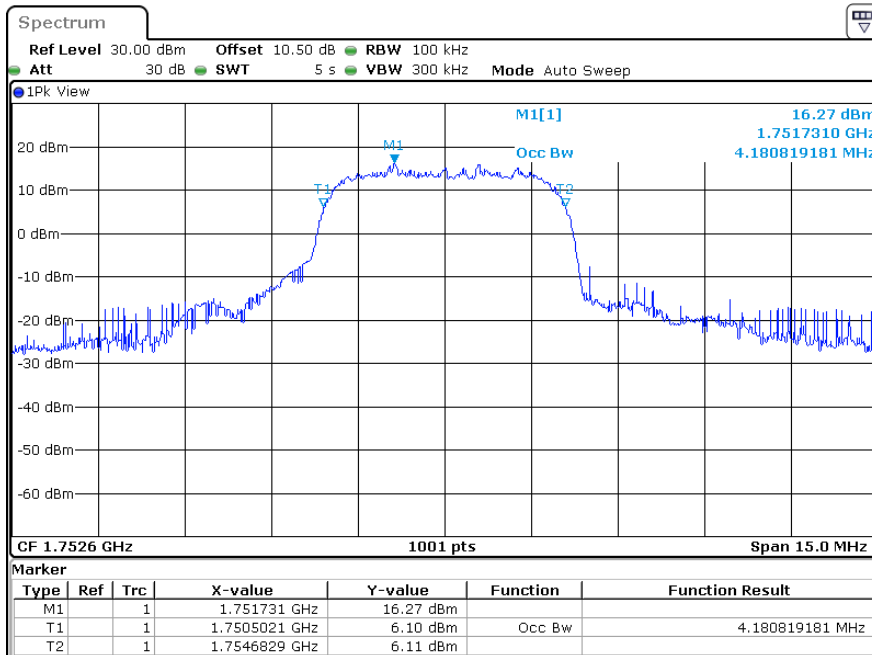
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 18:52:01

**HSDPA (16QAM) Mode, Middle channel**



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 18:36:59

HSDPA (16QAM) Mode, High channel



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 18:57:26



**LTE Band****Band 2**

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
1.4MHz QPSK	1.096	1.320
1.4MHz 16QAM	1.096	1.284
1.4MHz 64QAM	1.097	1.308
3MHz QPSK	2.683	2.904
3MHz 16QAM	2.683	2.892
3MHz 64QAM	2.673	2.874
5MHz QPSK	4.511	5.000
5MHz 16QAM	4.511	5.000
5MHz 64QAM	4.496	4.987
10MHz QPSK	8.942	9.680
10MHz 16QAM	8.942	9.680
10MHz 64QAM	8.951	9.610
15MHz QPSK	13.533	14.880
15MHz 16QAM	13.473	14.760
15MHz 64QAM	13.427	14.613
20MHz QPSK	17.964	19.600
20MHz 16QAM	17.884	19.360
20MHz 64QAM	17.902	19.270

**Band 4**

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
1.4MHz QPSK	1.102	1.296
1.4MHz 16QAM	1.096	1.290
1.4MHz 64QAM	1.097	1.313
3MHz QPSK	2.683	2.904
3MHz 16QAM	2.683	2.904
3MHz 64QAM	2.679	2.870
5MHz QPSK	4.511	5.000
5MHz 16QAM	4.491	4.980
5MHz 64QAM	4.496	4.978
10MHz QPSK	8.942	9.600
10MHz 16QAM	8.942	9.680
10MHz 64QAM	8.931	9.563
15MHz QPSK	13.473	14.760
15MHz 16QAM	13.473	14.700
15MHz 64QAM	13.427	14.602
20MHz QPSK	17.884	19.280
20MHz 16QAM	17.964	19.360
20MHz 64QAM	17.902	19.270

**Band 5**

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
1.4MHz QPSK	1.102	1.314
1.4MHz 16QAM	1.096	1.326
1.4MHz 64QAM	1.097	1.313
3MHz QPSK	2.683	2.904
3MHz 16QAM	2.683	2.916
3MHz 64QAM	2.679	2.875
5MHz QPSK	4.511	5.000
5MHz 16QAM	4.511	4.980
5MHz 64QAM	4.496	5.035
10MHz QPSK	8.942	9.640
10MHz 16QAM	8.942	9.640
10MHz 64QAM	8.931	9.811

**Band 7**

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
5MHz QPSK	4.511	5.000
5MHz 16QAM	4.511	5.000
5MHz 64QAM	4.496	4.982
10MHz QPSK	8.942	9.600
10MHz 16QAM	8.942	9.680
10MHz 64QAM	8.951	9.622
15MHz QPSK	13.413	14.760
15MHz 16QAM	13.533	14.700
15MHz 64QAM	13.427	14.763
20MHz QPSK	17.964	19.280
20MHz 16QAM	17.964	19.440
20MHz 64QAM	17.862	19.263

**Band 12**

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
1.4MHz QPSK	1.102	1.320
1.4MHz 16QAM	1.096	1.284
1.4MHz 64QAM	1.097	1.309
3MHz QPSK	2.683	2.892
3MHz 16QAM	2.683	2.916
3MHz 64QAM	2.679	2.878
5MHz QPSK	4.491	5.000
5MHz 16QAM	4.511	5.020
5MHz 64QAM	4.496	4.981
10MHz QPSK	8.942	9.760
10MHz 16QAM	8.942	9.600
10MHz 64QAM	8.931	9.642

**Band 17**

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
5MHz QPSK	4.491	5.000
5MHz 16QAM	4.511	5.000
5MHz 64QAM	4.496	5.001
10MHz QPSK	8.942	9.720
10MHz 16QAM	8.942	9.600
10MHz 64QAM	8.911	9.609

**Band 38**

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
5MHz QPSK	4.511	5.060
5MHz 16QAM	4.511	5.020
5MHz 64QAM	4.496	4.959
10MHz QPSK	8.942	9.680
10MHz 16QAM	8.942	9.520
10MHz 64QAM	8.951	9.916
15MHz QPSK	13.473	14.820
15MHz 16QAM	13.533	14.760
15MHz 64QAM	13.457	14.697
20MHz QPSK	17.964	19.200
20MHz 16QAM	17.884	19.440
20MHz 64QAM	17.902	19.31

**Band 40**

LTE Band 40 Lower:		
Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle channel
5MHz QPSK	4.511	4.920
5MHz 16QAM	4.511	5.000
5MHz 64QAM	4.496	4.974
10MHz QPSK	8.942	10.000
10MHz 16QAM	8.942	9.520
10MHz 64QAM	8.951	9.663
LTE Band 40 Upper:		
Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle channel
5MHz QPSK	4.511	5.080
5MHz 16QAM	4.511	5.000
5MHz 64QAM	4.496	4.991
10MHz QPSK	8.942	9.880
10MHz 16QAM	8.942	9.480
10MHz 64QAM	8.951	9.847

**Band 41**

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
5MHz QPSK	4.511	5.280
5MHz 16QAM	4.511	5.020
5MHz 64QAM	4.496	4.945
10MHz QPSK	8.942	9.840
10MHz 16QAM	8.942	9.520
10MHz 64QAM	8.951	10.023
15MHz QPSK	13.533	14.940
15MHz 16QAM	13.533	14.880
15MHz 64QAM	13.457	14.653
20MHz QPSK	17.964	19.200
20MHz 16QAM	17.884	19.280
20MHz 64QAM	17.902	19.297

**Band 42**

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle channel	Middle Channel
5MHz QPSK	4.511	5.28
5MHz 16QAM	4.511	5.02
5MHz 64QAM	4.496	4.945
10MHz QPSK	8.942	9.84
10MHz 16QAM	8.942	9.52
10MHz 64QAM	8.951	9.99
15MHz QPSK	13.533	14.94
15MHz 16QAM	13.533	14.88
15MHz 64QAM	13.427	14.809
20MHz QPSK	17.964	19.2
20MHz 16QAM	17.884	19.28
20MHz 64QAM	17.902	19.36

**Band 66**

Operation Mode	99% Occupied Bandwidth (MHz)	26 dB Occupied Bandwidth (MHz)
	Middle Channel	Middle Channel
1.4MHz QPSK	1.102	1.326
1.4MHz 16QAM	1.096	1.290
1.4MHz 64QAM	1.097	1.744
3MHz QPSK	2.683	2.904
3MHz 16QAM	2.683	2.904
3MHz 64QAM	2.679	2.869
5MHz QPSK	4.511	5.000
5MHz 16QAM	4.511	5.020
5MHz 64QAM	4.496	4.992
10MHz QPSK	8.942	9.720
10MHz 16QAM	8.942	9.680
10MHz 64QAM	8.93	9.64
15MHz QPSK	13.473	14.76
15MHz 16QAM	13.533	14.76
15MHz 64QAM	13.457	14.607
20MHz QPSK	17.964	19.36
20MHz 16QAM	17.964	19.28
20MHz 64QAM	17.942	19.324

The test plots of LTE band please refer to the Appendix A.

## FCC §2.1051, §22.917(a) & §24.238(a) & §27.53 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

### Applicable Standard

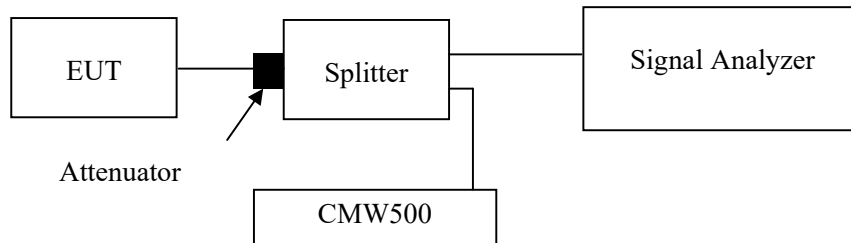
FCC §2.1051, §22.917(a) & §24.238(a) & §27.53.

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

### Test Procedure

ANSI C63.26-2015 Section 5.7

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz. Sufficient scans were taken to show any out of band emissions up to 10<sup>th</sup> harmonic.



Note: the worst path loss (cable loss and splitter inset loss) among the test frequency range was added into plots.

### Test Data

#### Environmental Conditions

<b>Temperature:</b>	23.5~24.5 °C
<b>Relative Humidity:</b>	40~45 %
<b>ATM Pressure:</b>	101.0kPa

The testing was performed by Jim Cheng from 2024-01-26 to 2024-02-29 and Bamboo Zhan on 2024-03-01.

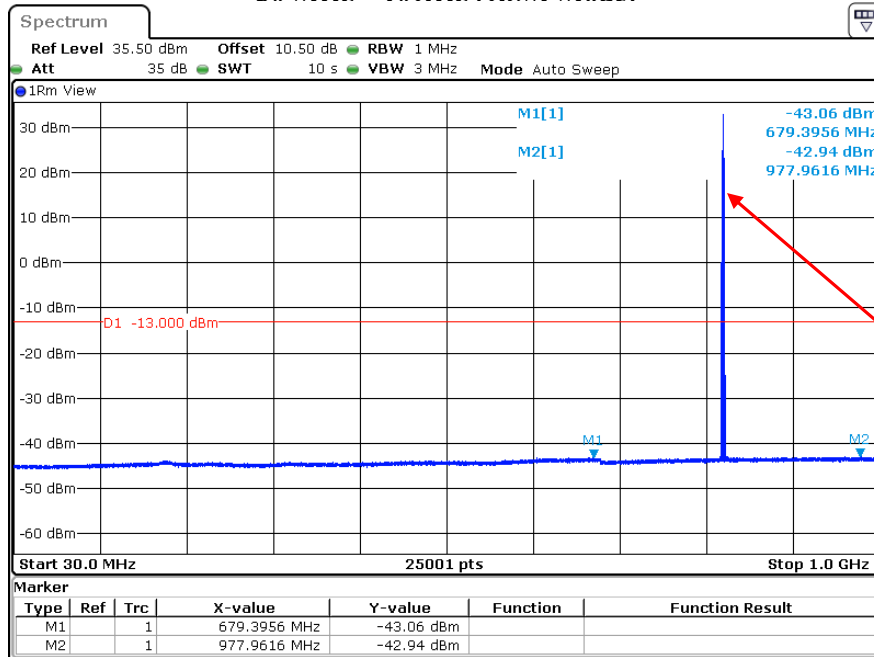
*EUT operation mode: Transmitting*

**Test result: Compliant**

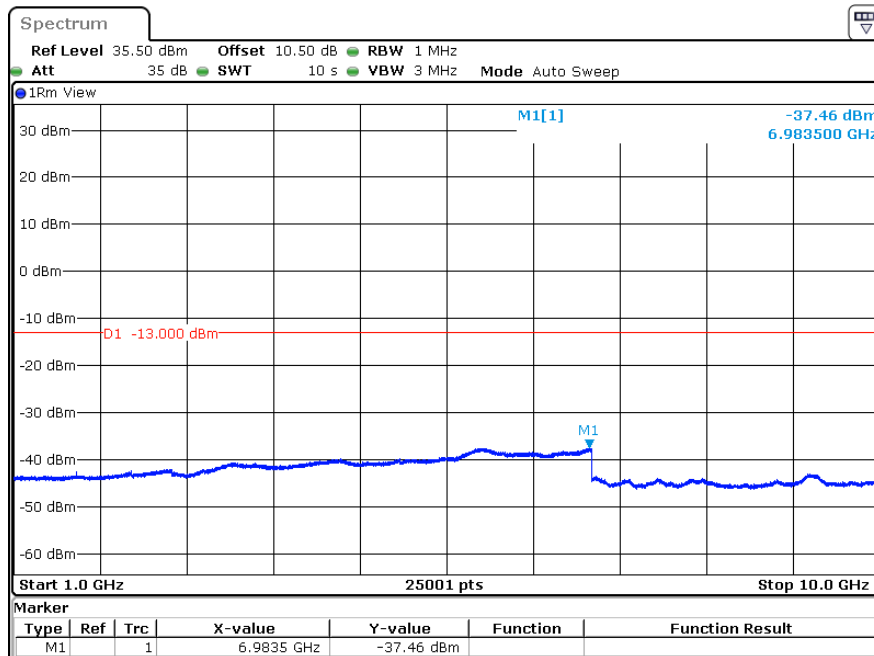
*Please refer to the following plots.*

**Cellular Band  
Low Channel:**

**30 MHz – 10GHz (GSM Mode)**



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
Date: 29.FEB.2024 23:19:02

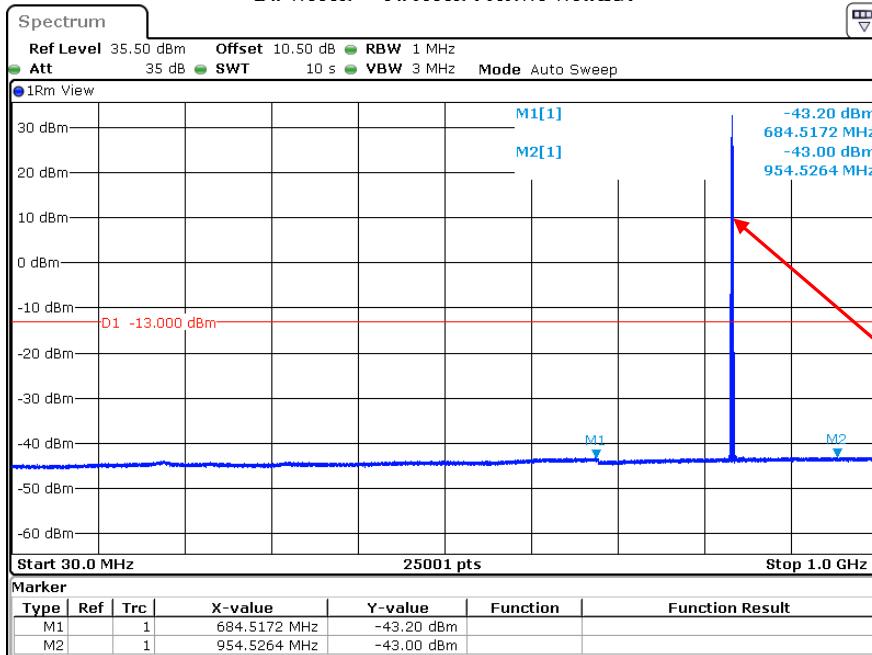


ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
Date: 29.FEB.2024 23:19:40



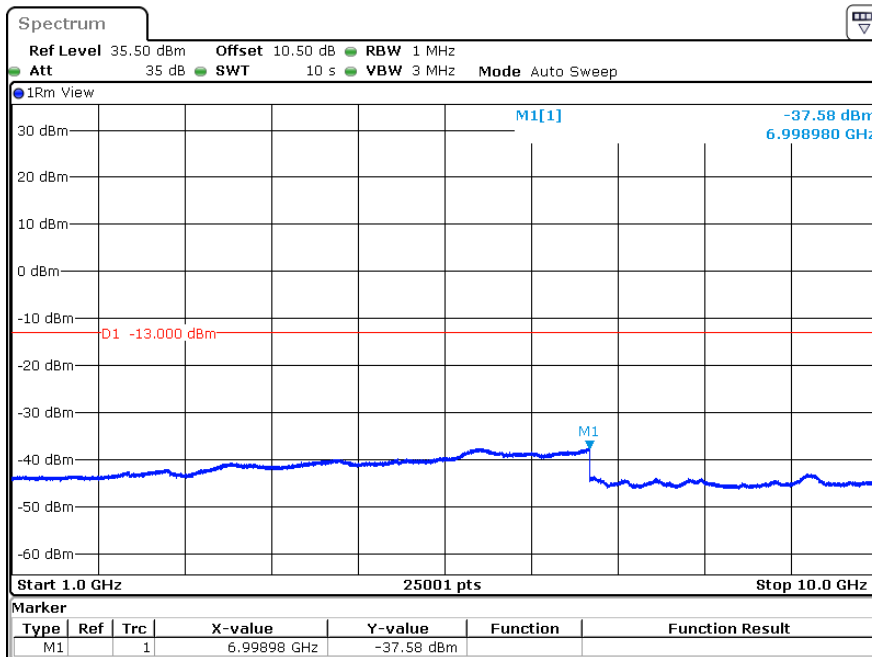
**Middle Channel:**

**30 MHz – 10GHz (GSM Mode)**



Fundamental test

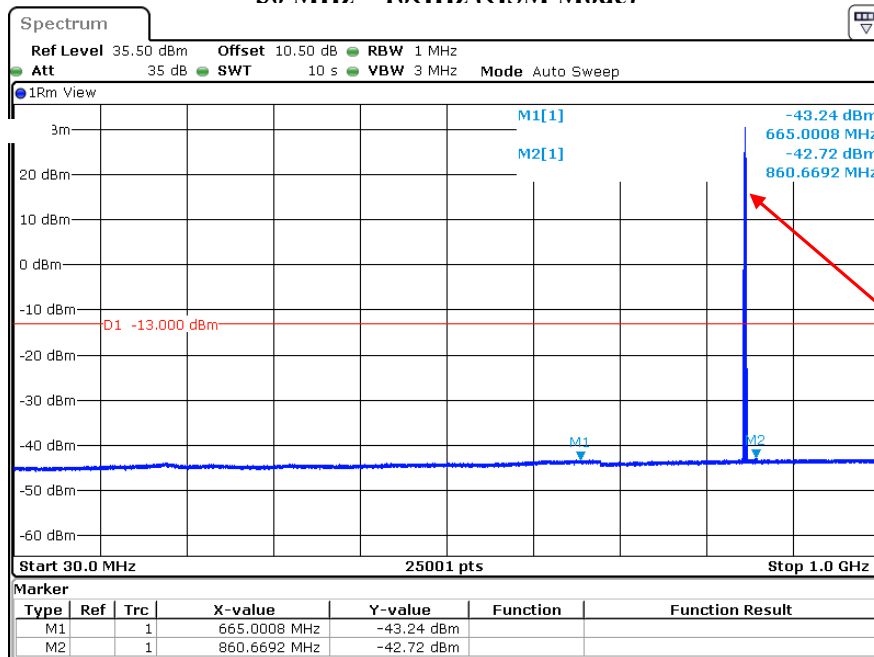
ProjectNo.:SZ1231211-74617E    Tester:Jim Cheng  
 Date: 29.FEB.2024    23:15:14



ProjectNo.:SZ1231211-74617E    Tester:Jim Cheng  
 Date: 29.FEB.2024    23:15:46

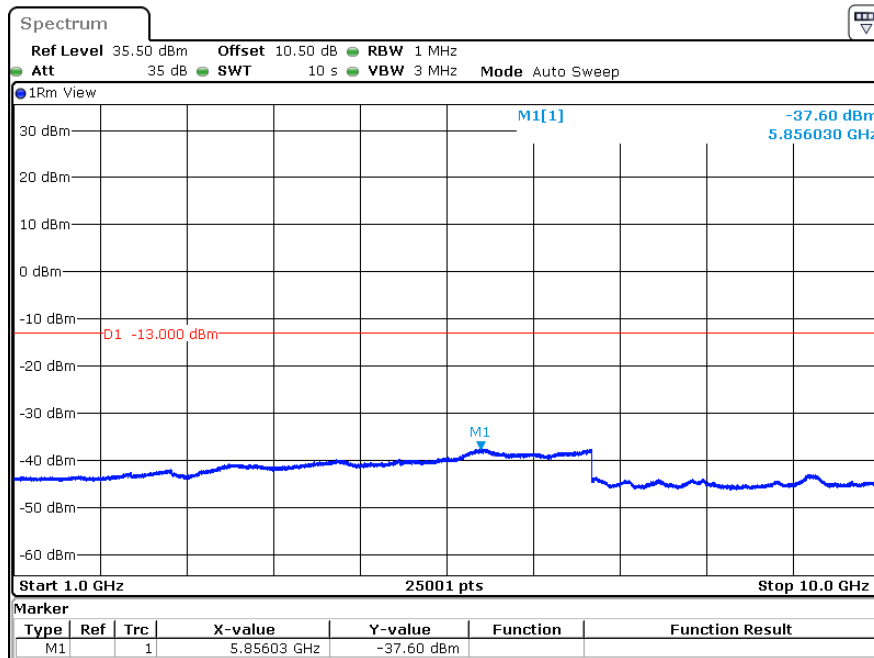
**High Channel:**

**30 MHz – 10GHz (GSM Mode)**



Fundamental test

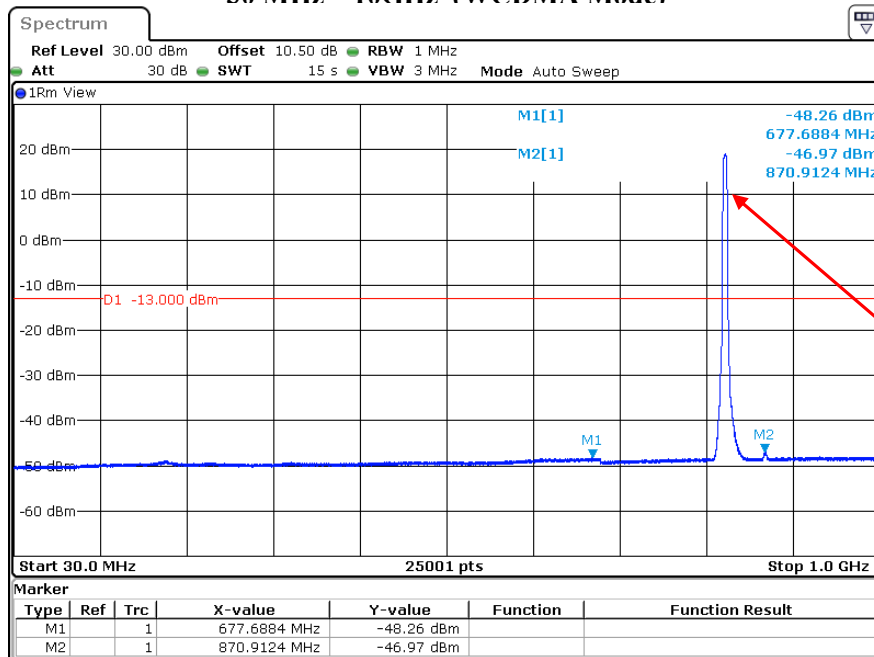
ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 23:24:06



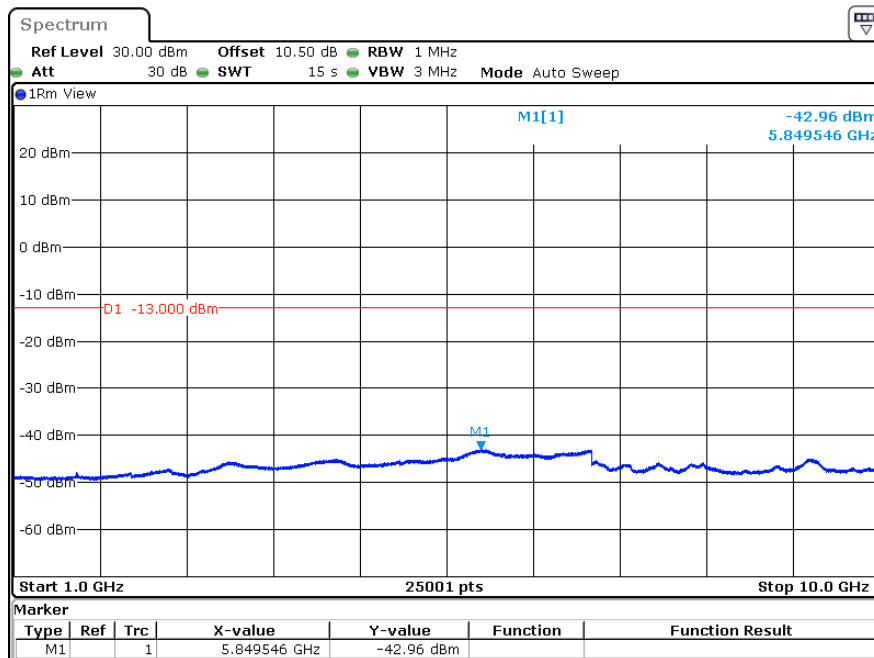
ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 23:24:38

Low Channel:

30 MHz – 10GHz (WCDMA Mode)



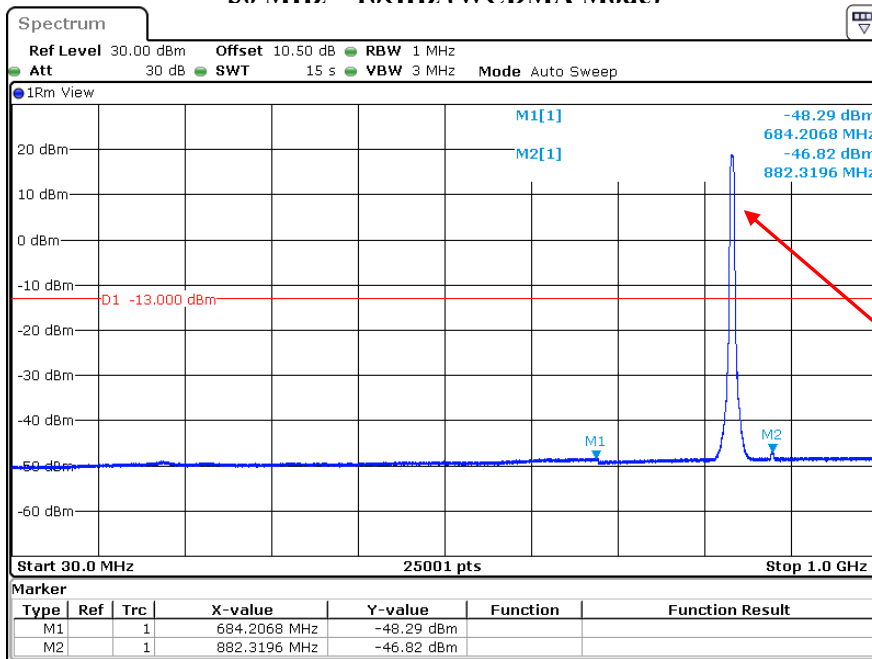
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
Date: 1.MAR.2024 19:29:22



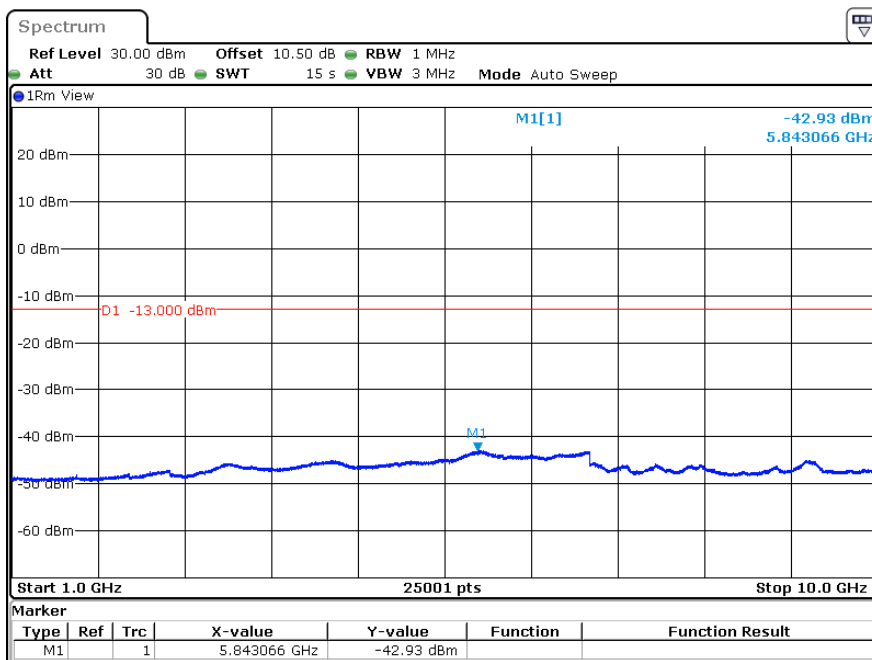
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
Date: 1.MAR.2024 19:30:10

Middle Channel:

30 MHz – 10GHz (WCDMA Mode)



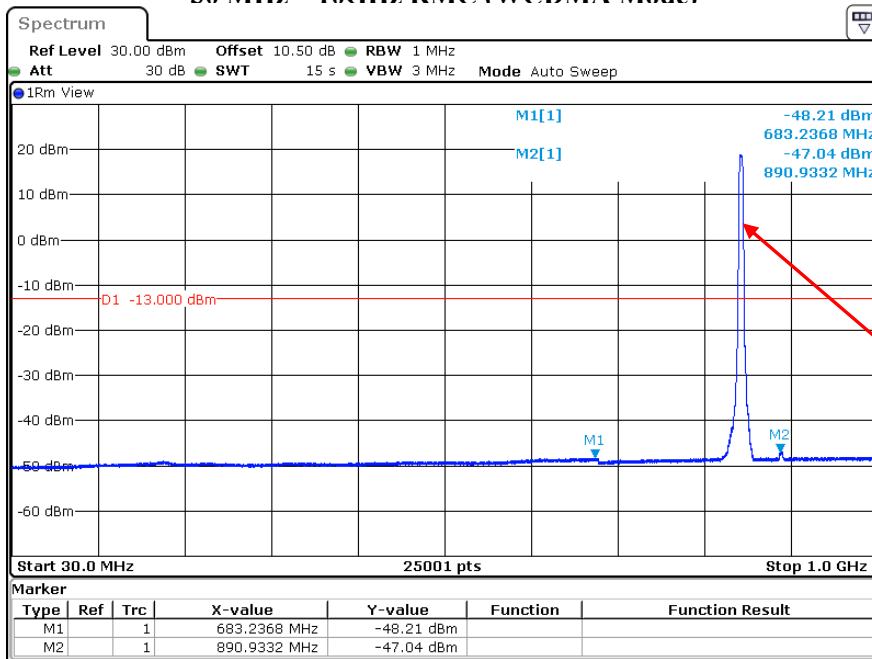
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
Date: 1.MAR.2024 19:45:45



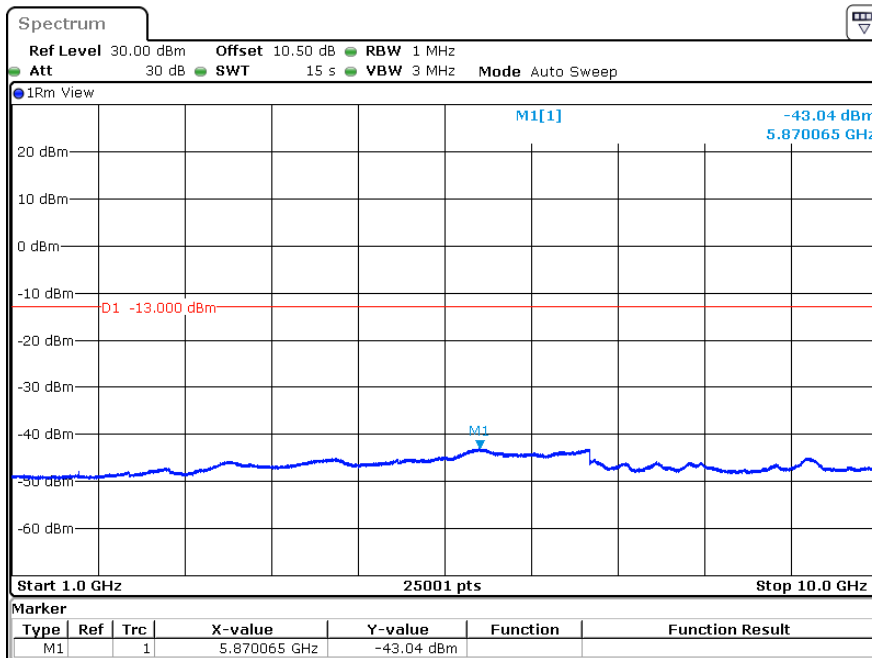
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
Date: 1.MAR.2024 19:46:33

**High Channel:**

**30 MHz – 10GHz RMC (WCDMA Mode)**



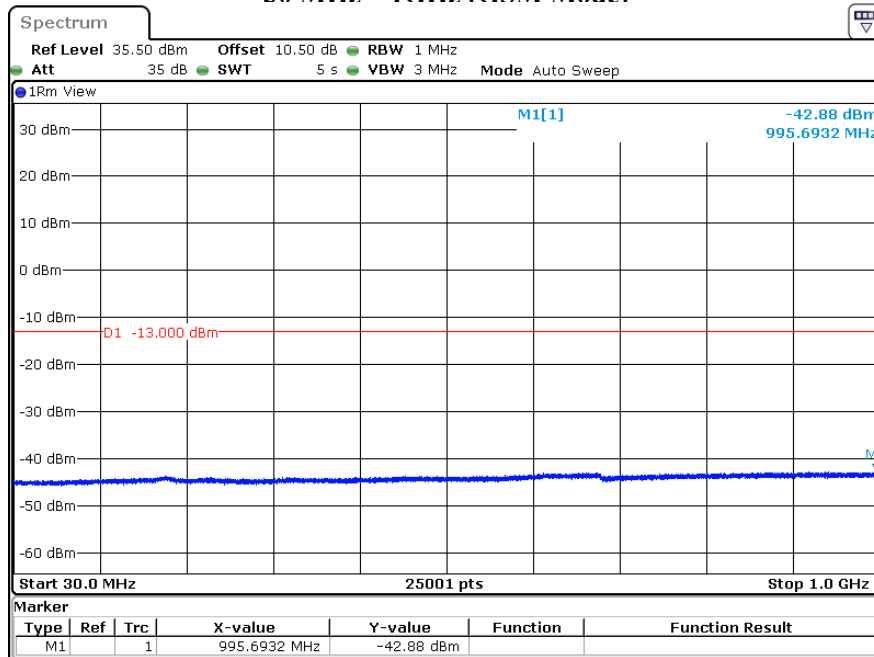
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
Date: 1.MAR.2024 19:33:28



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
Date: 1.MAR.2024 19:34:15

**PCS Band**  
**Low Channel:**

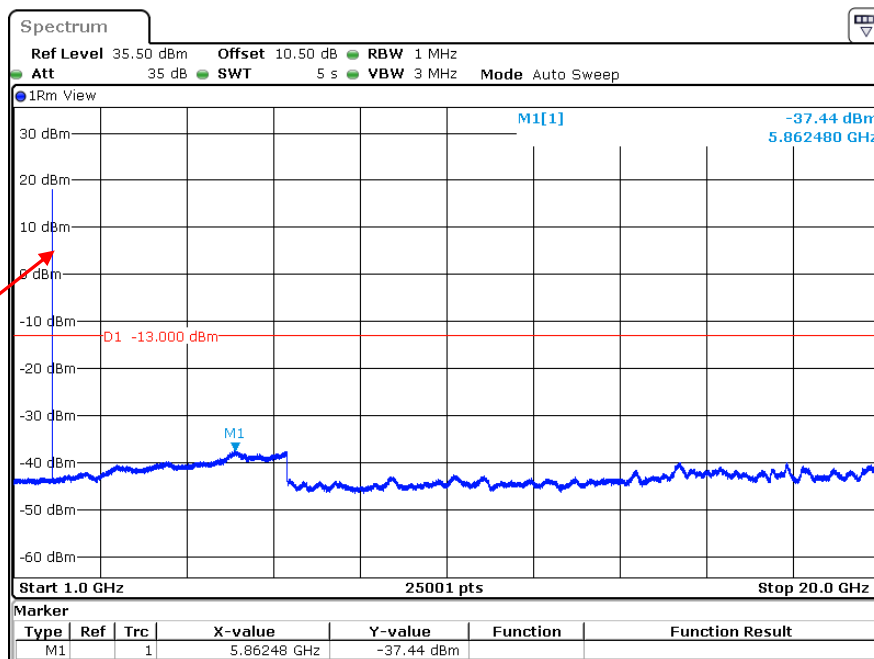
**30 MHz – 1GHz (GSM Mode)**



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
Date: 29.FEB.2024 22:17:40

**1 GHz – 20GHz (GSM Mode)**

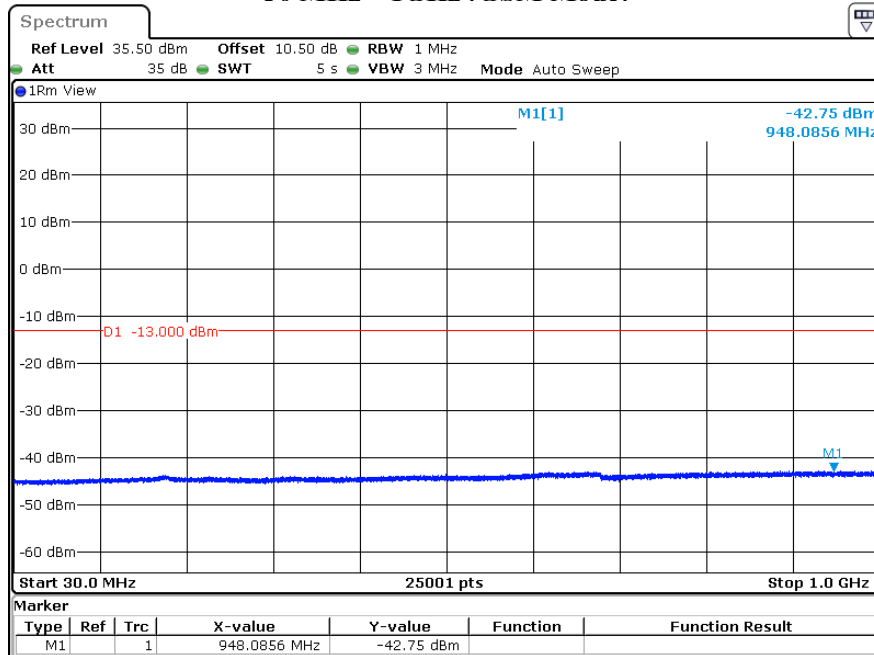
Fundamental test



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
Date: 29.FEB.2024 22:21:07

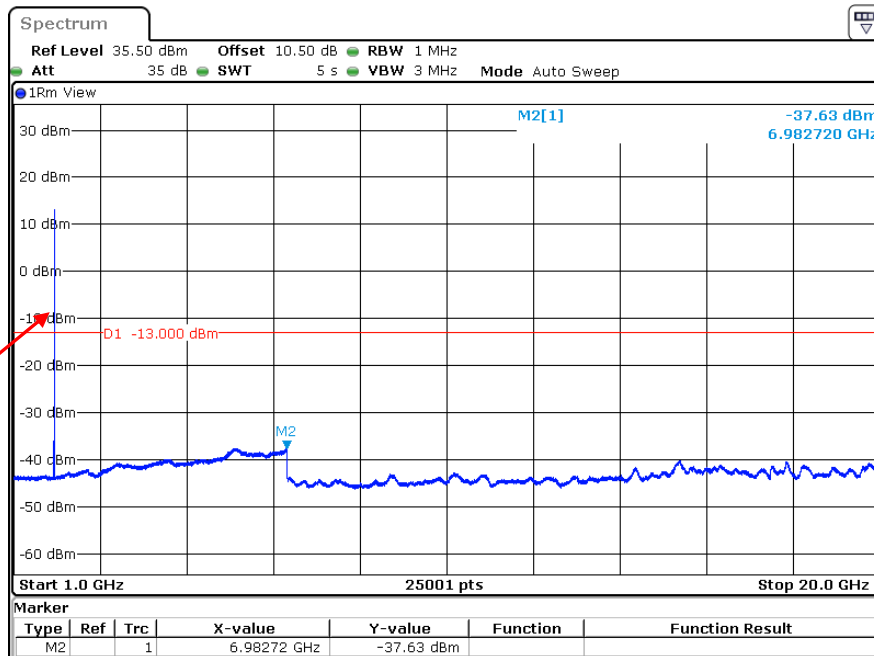
**Middle Channel:**

**30 MHz – 1GHz (GSM Mode)**



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 22:13:10

**1 GHz – 20GHz (GSM Mode)**

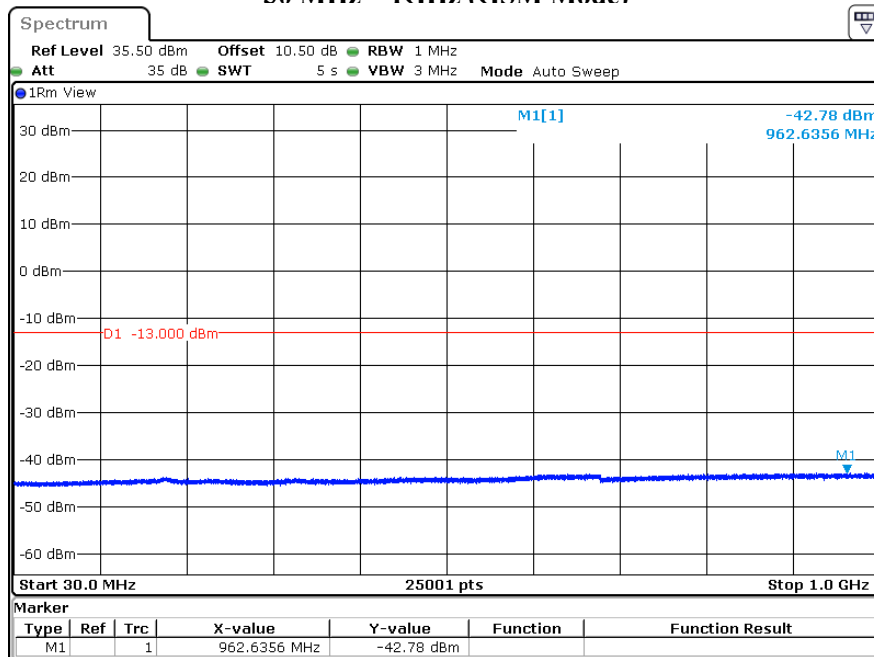


Fundamental test

ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 22:13:52

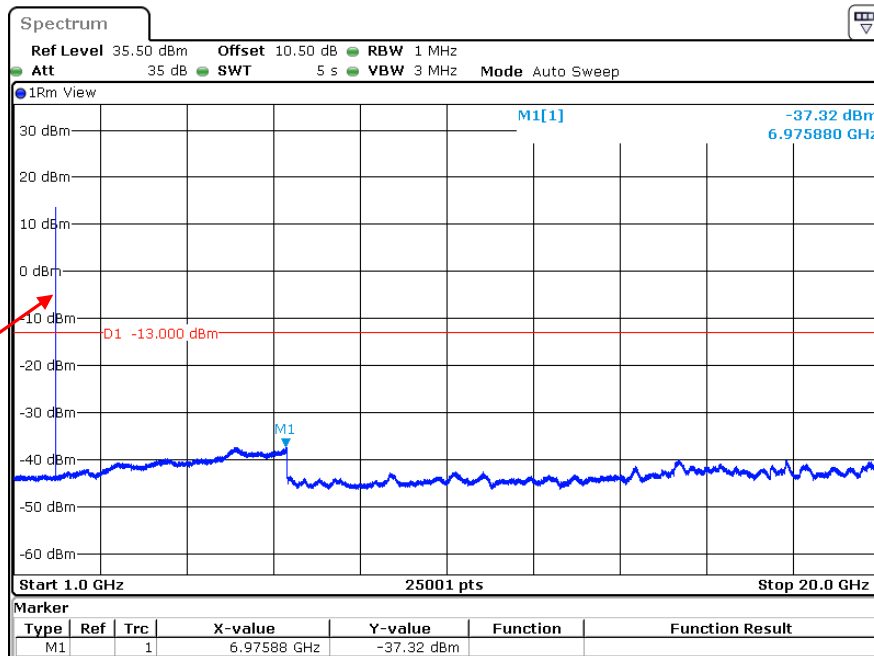
**High Channel:**

**30 MHz – 1GHz (GSM Mode)**



ProjectNo.:SZ1231211-74617E    Tester:Jim Cheng  
 Date: 29.FEB.2024    22:09:43

**1 GHz – 20GHz (GSM Mode)**



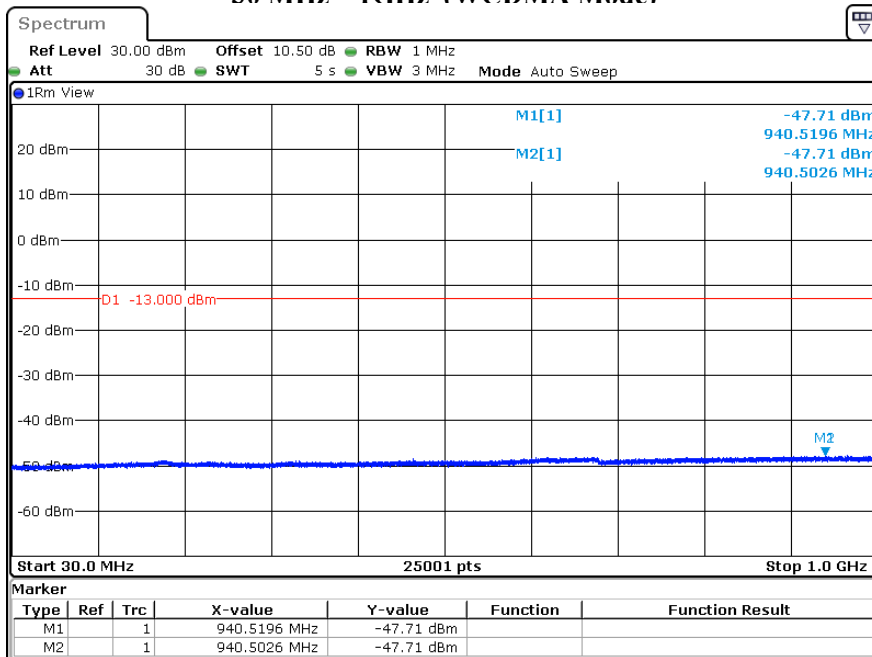
Fundamental test

ProjectNo.:SZ1231211-74617E    Tester:Jim Cheng  
 Date: 29.FEB.2024    22:10:41



**Low Channel:**

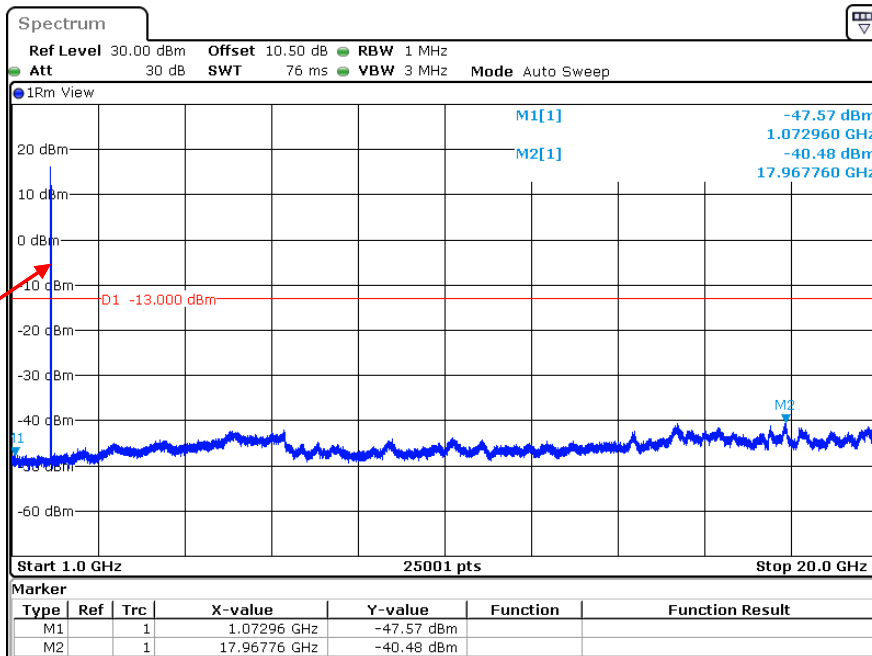
**30 MHz – 1GHz (WCDMA Mode)**



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 16:40:37

**1 GHz – 20GHz (WCDMA Mode)**

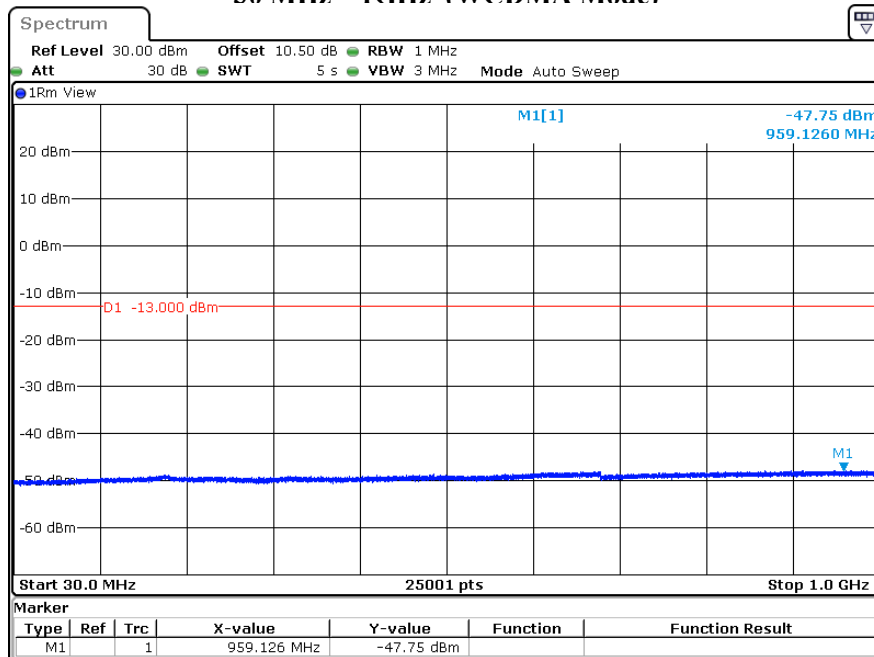
Fundamental test



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 16:46:05

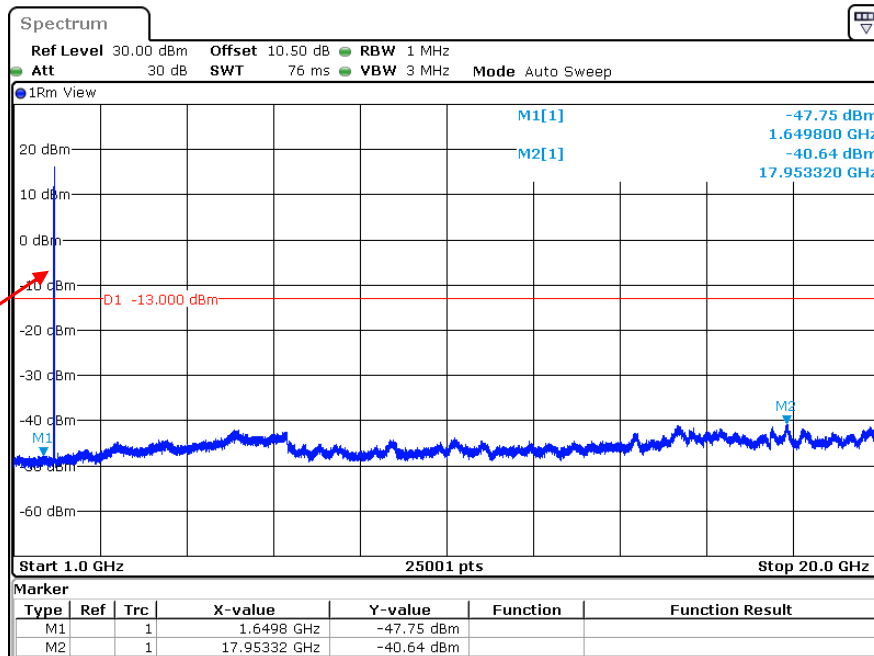
**Middle Channel:**

**30 MHz – 1GHz (WCDMA Mode)**



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
Date: 1.MAR.2024 16:48:42

**1 GHz – 20GHz (WCDMA Mode)**

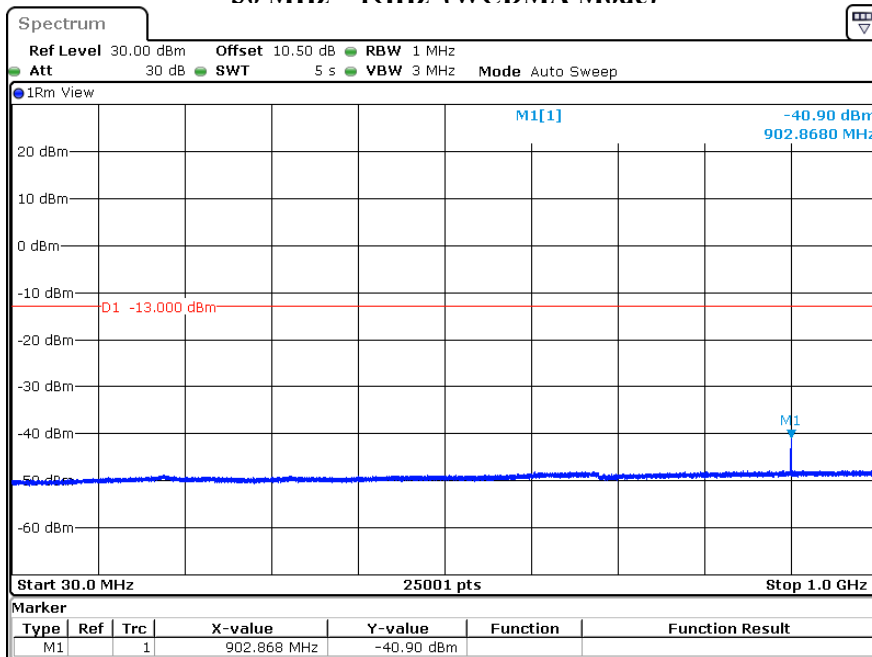


Fundamental test

ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
Date: 1.MAR.2024 16:49:15

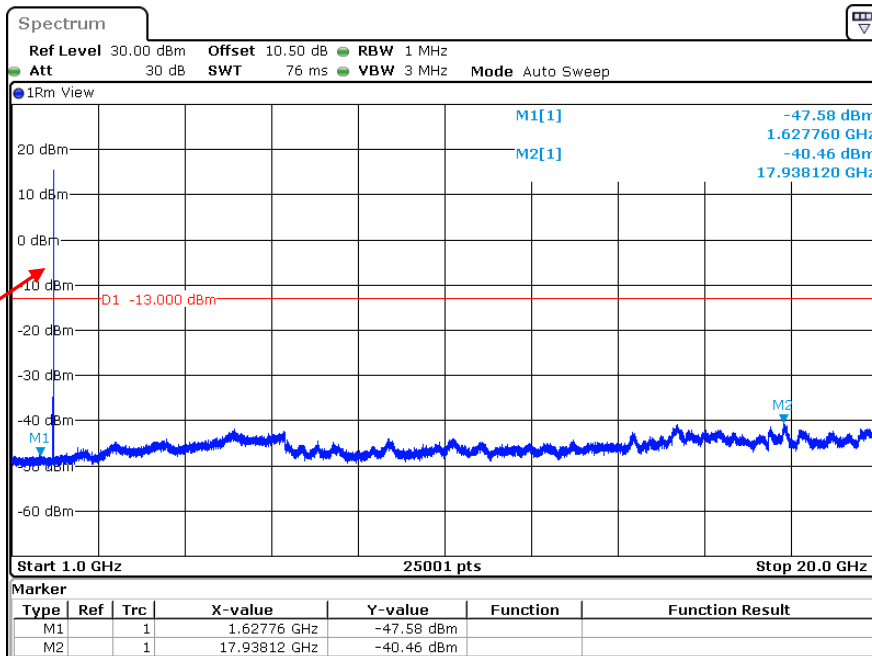
**High Channel:**

**30 MHz – 1GHz (WCDMA Mode)**



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
Date: 1.MAR.2024 16:52:36

**1 GHz – 20GHz (WCDMA Mode)**

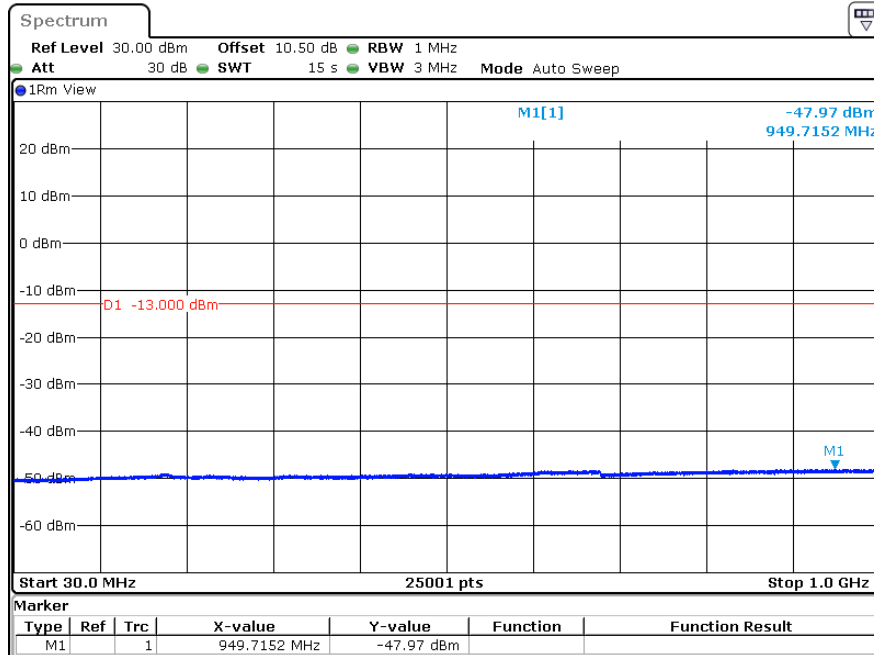


Fundamental test

ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
Date: 1.MAR.2024 16:53:10

**AWS Band  
Low Channel:**

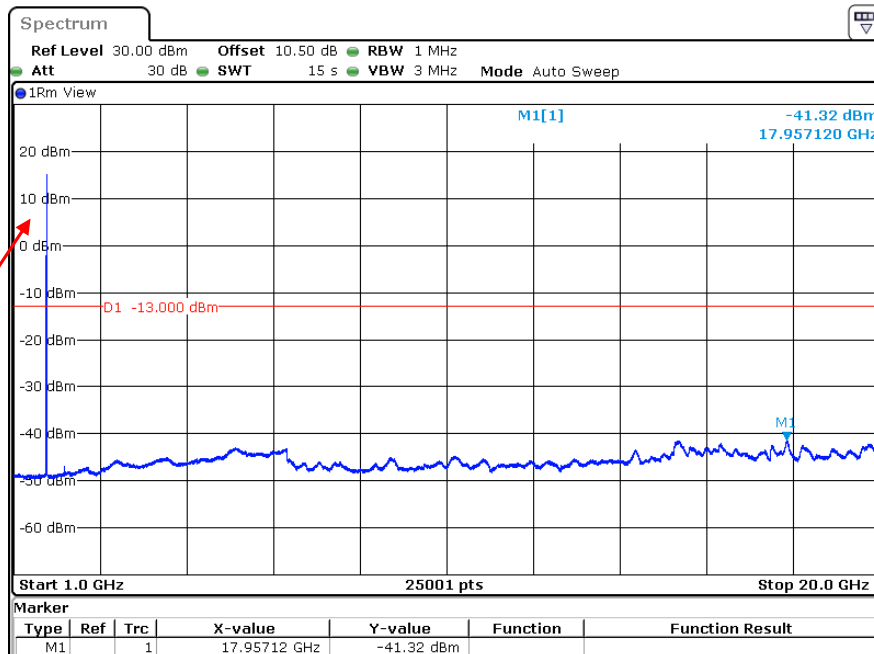
**30 MHz – 1GHz (WCDMA Mode)**



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
Date: 1.MAR.2024 19:18:41

**1 GHz – 20GHz (WCDMA Mode)**

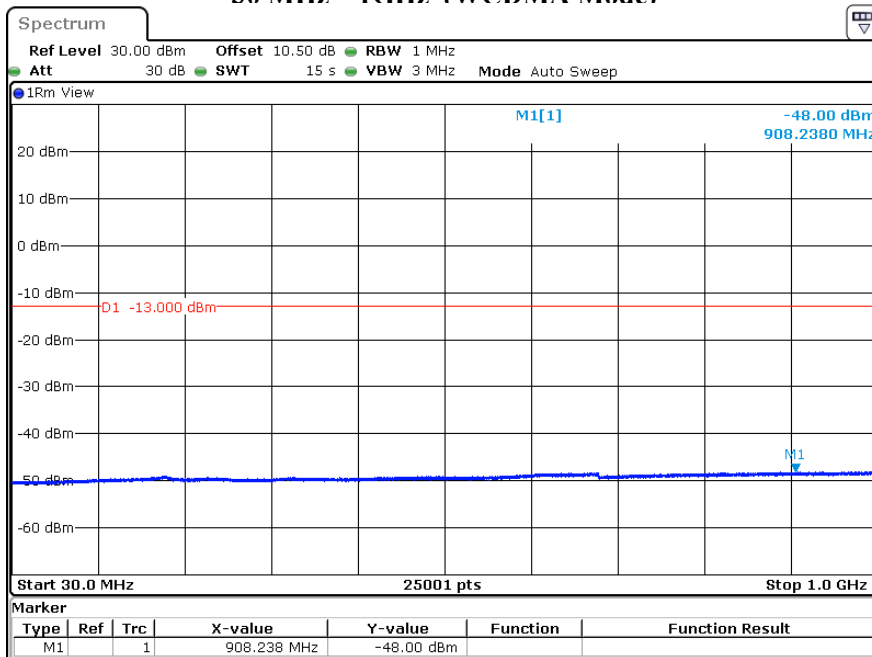
Fundamental test



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
Date: 1.MAR.2024 19:20:48

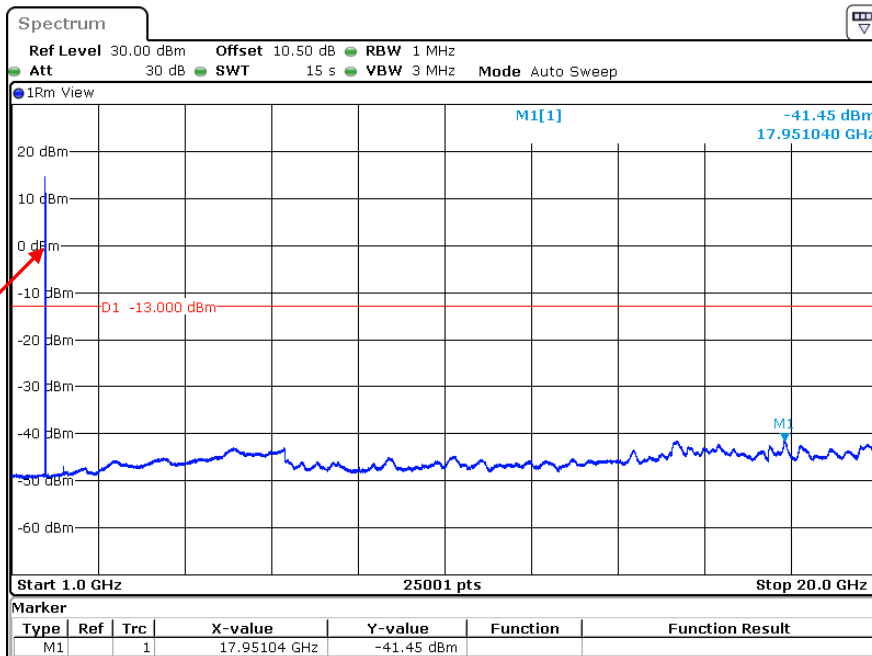
**Middle Channel:**

**30 MHz – 1GHz (WCDMA Mode)**



ProjectNo.:SZ1231211-74617E    Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:23:23

**1 GHz – 20GHz (WCDMA Mode)**

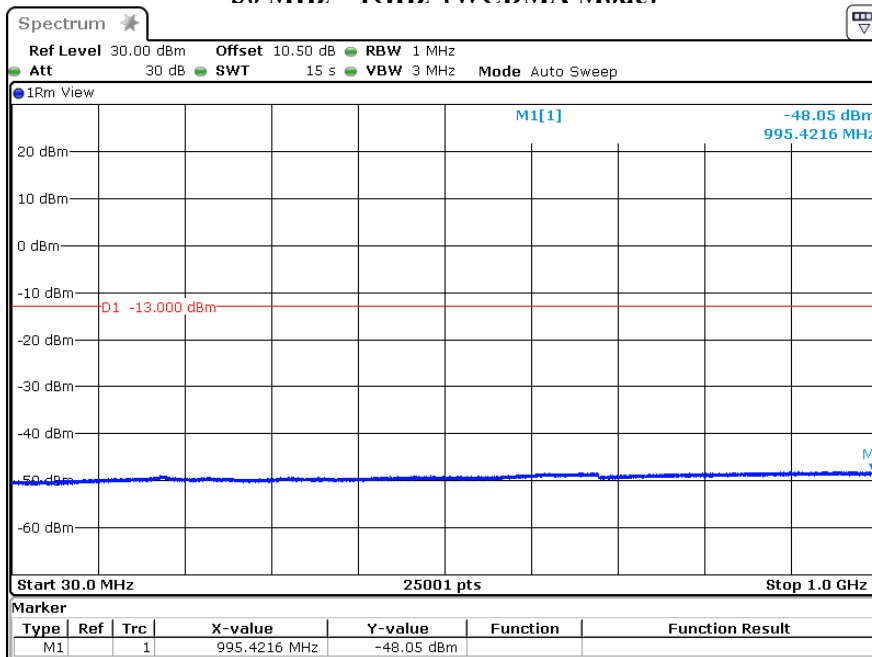


Fundamental test

ProjectNo.:SZ1231211-74617E    Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:24:12

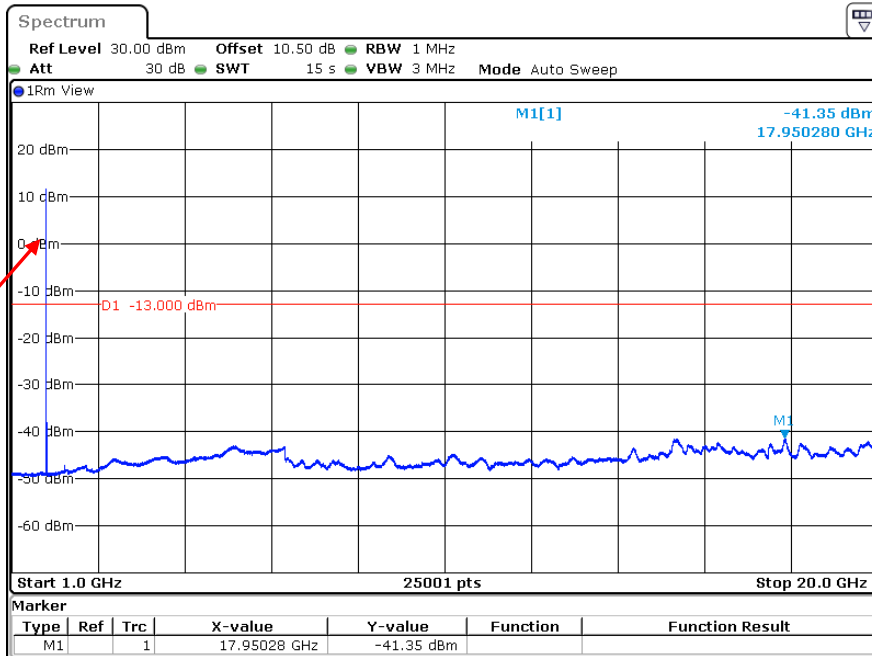
**High Channel:**

**30 MHz – 1GHz (WCDMA Mode)**



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
Date: 1.MAR.2024 19:12:06

**1 GHz – 20GHz (WCDMA Mode)**



Fundamental test

ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
Date: 1.MAR.2024 19:15:12

The test plots of LTE band please refer to the Appendix B.

## FCC § 2.1053; § 22.917 (a); § 24.238 (a); § 27.53 - SPURIOUS RADIATED EMISSIONS

### Applicable Standard

FCC § 2.1053, § 22.917(a) & § 24.238(a) & § 27.53.

### Test Procedure

ANSI/TIA-603-E-2016 Section 2.2.12  
KDB 671168 D01 v03r01 Section 6.2

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the receiving antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

### Test Data

#### Environmental Conditions

Temperature:	22~24.5 °C
Relative Humidity:	50~54 %
ATM Pressure:	101 kPa

*The testing was performed by Warren Huang on 2024-01-22 for below 1GHz and Zenos Qiao on 2024-01-21 for above 1GHz.*

*EUT operation mode: Transmitting (Pre-scan in the X, Y and Z axes of orientation, the worst case Y-axis of orientation was recorded)*

ANTI:

Frequency (MHz)	Receiver Reading (dBμV)	Turn Table	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Angle Degree	Height (m)	Polar (H / V)	Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
GSM 850 (30MHz-10GHz)										
Low Channel										
952.5	31.22	17	1.2	H	-65.3	1.36	0.0	-66.66	-13	53.66
952.5	32.56	149	1.9	V	-61.5	1.36	0.0	-62.86	-13	49.86
1648.40	49.32	272	1.6	H	-58.3	0.90	8.60	-50.60	-13	37.60
1648.40	49.87	277	1.6	V	-58.3	0.90	8.60	-50.60	-13	37.60
2472.60	52.64	121	1.5	H	-54.7	1.10	8.80	-47.00	-13	34.00
2472.60	51.25	245	2.0	V	-55.9	1.10	8.80	-48.20	-13	35.20
3296.80	46.48	217	2.4	H	-59.5	1.30	8.80	-52.00	-13	39.00
3296.80	45.93	336	2.2	V	-59.8	1.30	8.80	-52.30	-13	39.30
Middle Channel										
954.1	31.43	41	1.4	H	-65.1	1.36	0.0	-66.46	-13	53.46
954.1	32.74	153	2.5	V	-61.3	1.36	0.0	-62.66	-13	49.66
1673.20	49.62	86	2.0	H	-57.9	0.90	8.60	-50.20	-13	37.20
1673.20	49.27	177	1.9	V	-58.9	0.90	8.60	-51.20	-13	38.20
2509.80	53.15	209	1.5	H	-54.2	1.10	8.80	-46.50	-13	33.50
2509.80	51.84	162	1.1	V	-55.3	1.10	8.80	-47.60	-13	34.60
3346.40	46.96	30	2.0	H	-59.0	1.30	8.80	-51.50	-13	38.50
3346.40	46.39	61	2.2	V	-59.3	1.30	8.80	-51.80	-13	38.80
High Channel										
955.3	31.78	231	1.9	H	-64.7	1.36	0.0	-66.06	-13	53.06
955.3	32.95	38	2.1	V	-61.1	1.36	0.0	-62.46	-13	49.46
1697.60	50.54	284	1.1	H	-57.0	0.90	8.60	-49.30	-13	36.30
1697.60	59.89	161	1.9	V	-48.3	0.90	8.60	-40.60	-13	27.60
2546.40	54.36	66	2.3	H	-53.0	1.10	8.80	-45.30	-13	32.30
2546.40	53.17	95	1.8	V	-53.9	1.10	8.80	-46.20	-13	33.20
3395.20	47.78	13	2.4	H	-58.2	1.30	9.90	-49.60	-13	36.60
3395.20	47.21	3	2.1	V	-58.4	1.30	9.90	-49.80	-13	36.80
PCS 1900 (30MHz-20GHz)										
Low Channel										
952.8	30.67	251	1.5	H	-65.8	1.36	0.0	-67.16	-13	54.16
952.8	31.52	114	1.4	V	-62.5	1.36	0.0	-63.86	-13	50.86
3700.40	47.55	180	2.2	H	-57.9	1.30	11.00	-48.20	-13	35.20
3700.40	47.08	15	1.5	V	-58.2	1.30	11.00	-48.50	-13	35.50
Middle Channel										
953.6	30.88	78	1.1	H	-65.6	1.36	0.0	-66.96	-13	53.96
953.6	32.13	174	1.0	V	-61.9	1.36	0.0	-63.26	-13	50.26
3760.00	47.87	29	1.9	H	-57.3	1.30	10.70	-47.90	-13	34.90
3760.00	47.64	326	1.6	V	-57.4	1.30	10.70	-48.00	-13	35.00
High Channel										
954.4	31.34	80	1.7	H	-65.2	1.36	0.0	-66.56	-13	53.56
954.4	31.40	315	2.0	V	-62.7	1.36	0.0	-64.06	-13	51.06
3819.60	48.69	129	2.0	H	-56.4	1.30	10.70	-47.00	-13	34.00
3819.60	48.26	98	1.6	V	-56.8	1.30	10.70	-47.40	-13	34.40



Frequency (MHz)	Receiver Reading (dBμV)	Turn Table	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Angle Degree	Height (m)	Polar (H / V)	Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
WCDMA Band 2(30MHz-20GHz)										
Low Channel										
952.2	30.64	348	2.3	H	-65.9	1.36	0.0	-67.26	-13	54.26
952.2	31.34	236	1.7	V	-62.7	1.36	0.0	-64.06	-13	51.06
3704.80	47.75	100	1.9	H	-57.7	1.30	11.00	-48.00	-13	35.00
3704.80	47.43	303	1.7	V	-57.8	1.30	11.00	-48.10	-13	35.10
5557.20	47.57	117	1.6	H	-54.8	1.70	10.90	-45.60	-13	32.60
5557.20	47.18	123	1.9	V	-55.4	1.70	10.90	-46.20	-13	33.20
Middle Channel										
951.5	30.79	199	2.5	H	-65.7	1.36	0.0	-67.06	-13	54.06
951.5	31.55	323	1.6	V	-62.5	1.36	0.0	-63.86	-13	50.86
3760.00	48.01	133	1.9	H	-57.1	1.30	10.70	-47.70	-13	34.70
3760.00	47.72	219	2.2	V	-57.3	1.30	10.70	-47.90	-13	34.90
5640.00	47.87	285	1.0	H	-54.5	1.70	10.90	-45.30	-13	32.30
5640.00	47.54	66	1.2	V	-55.0	1.70	10.90	-45.80	-13	32.80
High Channel										
956.4	30.98	217	1.2	H	-65.5	1.36	0.0	-66.86	-13	53.86
956.4	31.80	283	1.4	V	-62.3	1.36	0.0	-63.66	-13	50.66
3815.20	48.96	43	1.1	H	-56.2	1.30	10.70	-46.80	-13	33.80
3815.20	48.37	2	1.4	V	-56.7	1.30	10.70	-47.30	-13	34.30
5722.80	48.45	285	1.2	H	-53.7	1.70	11.10	-44.30	-13	31.30
5722.80	48.02	175	1.6	V	-54.3	1.70	11.10	-44.90	-13	31.90
WCDMA Band 4(30MHz-20GHz)										
Low Channel										
956.0	31.36	228	1.4	H	-65.1	1.36	0.0	-66.46	-13	53.46
956.0	30.67	225	2.2	V	-63.4	1.36	0.0	-64.76	-13	51.76
3424.80	48.39	296	1.2	H	-57.6	1.30	9.90	-49.00	-13	36.00
3424.80	47.88	252	2.4	V	-57.8	1.30	9.90	-49.20	-13	36.20
5137.20	48.06	49	1.5	H	-55.1	1.50	9.60	-47.00	-13	34.00
5137.20	47.57	78	2.3	V	-55.0	1.50	9.60	-46.90	-13	33.90
Middle Channel										
954.3	31.62	174	1.5	H	-64.9	1.36	0.0	-66.26	-13	53.26
954.3	30.89	357	1.1	V	-63.2	1.36	0.0	-64.56	-13	51.56
3465.20	48.76	37	2.5	H	-57.2	1.30	10.50	-48.00	-13	35.00
3465.20	48.23	98	2.2	V	-57.4	1.30	10.50	-48.20	-13	35.20
5197.80	48.45	123	2.4	H	-54.6	1.60	9.70	-46.50	-13	33.50
5197.80	47.94	30	2.0	V	-54.7	1.60	9.70	-46.60	-13	33.60
High Channel										
953.2	31.92	339	2.4	H	-64.6	1.36	0.0	-65.96	-13	52.96
953.2	31.18	50	2.2	V	-62.9	1.36	0.0	-64.26	-13	51.26
3505.20	49.84	272	1.2	H	-56.1	1.30	10.50	-46.90	-13	33.90
3505.20	49.27	334	1.2	V	-56.4	1.30	10.50	-47.20	-13	34.20
5257.80	49.32	138	2.2	H	-53.6	1.60	10.00	-45.20	-13	32.20
5257.80	48.91	18	2.4	V	-53.8	1.60	10.00	-45.40	-13	32.40
WCDMA Band 5(30MHz-10GHz)										

Low Channel										
956.9	32.11	197	2.0	H	-64.4	1.36	0.0	-65.76	-13	52.76
956.9	31.50	337	2.2	V	-62.6	1.36	0.0	-63.96	-13	50.96
1652.80	49.75	150	1.4	H	-57.8	0.90	8.60	-50.10	-13	37.10
1652.80	50.06	173	2.1	V	-58.1	0.90	8.60	-50.40	-13	37.40
2479.20	47.93	56	1.4	H	-59.4	1.10	8.80	-51.70	-13	38.70
2479.20	47.57	40	2.4	V	-59.5	1.10	8.80	-51.80	-13	38.80
3305.60	46.42	322	1.3	H	-59.6	1.30	8.80	-52.10	-13	39.10
3305.60	46.84	307	2.1	V	-58.8	1.30	8.80	-51.30	-13	38.30
Middle Channel										
955.7	32.42	293	1.1	H	-64.1	1.36	0.0	-65.46	-13	52.46
955.7	31.97	5	1.7	V	-62.1	1.36	0.0	-63.46	-13	50.46
1673.20	49.99	67	2.0	H	-57.6	0.90	8.60	-49.90	-13	36.90
1673.20	50.38	104	1.0	V	-57.8	0.90	8.60	-50.10	-13	37.10
2509.80	47.74	125	2.1	H	-59.6	1.10	8.80	-51.90	-13	38.90
2509.80	47.45	342	1.7	V	-59.7	1.10	8.80	-52.00	-13	39.00
3346.40	46.69	51	1.4	H	-59.3	1.30	8.80	-51.80	-13	38.80
3346.40	47.06	200	2.1	V	-58.6	1.30	8.80	-51.10	-13	38.10
High Channel										
954.6	32.71	35	1.1	H	-63.8	1.36	0.0	-65.16	-13	52.16
954.6	32.20	163	1.3	V	-61.9	1.36	0.0	-63.26	-13	50.26
1693.20	50.78	331	2.5	H	-56.8	0.90	8.60	-49.10	-13	36.10
1693.20	51.45	113	2.0	V	-56.7	0.90	8.60	-49.00	-13	36.00
2539.80	48.89	314	1.7	H	-58.5	1.10	8.80	-50.80	-13	37.80
2539.80	48.32	163	2.5	V	-58.8	1.10	8.80	-51.10	-13	38.10
3386.40	47.54	199	2.4	H	-58.4	1.30	9.90	-49.80	-13	36.80
3386.40	48.13	244	2.4	V	-57.5	1.30	9.90	-48.90	-13	35.90

**ANT 4:**

Frequency (MHz)	Receiver Reading (dBµV)	Turn Table	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Angle Degree	Height (m)	Polar (H / V)	Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
<b>GSM 850(30MHz-10GHz)</b>										
Low Channel										
952.0	33.37	104	2	H	-63.1	1.36	0.0	-64.46	-13	51.46
952.0	33.41	346	1	V	-60.6	1.36	0.0	-61.96	-13	48.96
1648.40	61.58	287	1.2	H	-46.1	0.90	8.60	-38.40	-13	25.40
1648.40	62.64	285	1.7	V	-45.6	0.90	8.60	-37.90	-13	24.90
2472.60	62.54	103	1.5	H	-44.8	1.10	8.80	-37.10	-13	24.10
2472.60	63.32	319	1.9	V	-43.8	1.10	8.80	-36.10	-13	23.10
3296.80	46.19	150	1.5	H	-59.8	1.30	8.80	-52.30	-13	39.30
3296.80	46.34	329	2.1	V	-59.3	1.30	8.80	-51.80	-13	38.80
Middle Channel										
956.1	33.51	313	1	H	-63.0	1.36	0.0	-64.36	-13	51.36
956.1	33.63	211	2	V	-60.4	1.36	0.0	-61.76	-13	48.76
1673.20	63.47	6	2.0	H	-44.1	0.90	8.60	-36.40	-13	23.40
1673.20	64.93	262	1.1	V	-43.2	0.90	8.60	-35.50	-13	22.50
2509.80	63.25	56	1.7	H	-44.1	1.10	8.80	-36.40	-13	23.40
2509.80	64.04	331	2.4	V	-43.1	1.10	8.80	-35.40	-13	22.40
3346.40	45.43	299	1.2	H	-60.6	1.30	8.80	-53.10	-13	40.10
3346.40	45.72	260	2.5	V	-60.0	1.30	8.80	-52.50	-13	39.50
High Channel										
958.9	33.76	237	2	H	-62.7	1.36	0.0	-64.06	-13	51.06
958.9	33.88	64	1	V	-60.2	1.36	0.0	-61.56	-13	48.56
1697.60	62.49	37	2.4	H	-45.1	0.90	8.60	-37.40	-13	24.40
1697.60	63.15	209	1.2	V	-45.0	0.90	8.60	-37.30	-13	24.30
2546.40	63.06	256	1.4	H	-44.3	1.10	8.80	-36.60	-13	23.60
2546.40	63.75	301	1.1	V	-43.4	1.10	8.80	-35.70	-13	22.70
3395.20	46.07	341	1.3	H	-59.9	1.30	9.90	-51.30	-13	38.30
3395.20	45.83	234	1.5	V	-59.8	1.30	9.90	-51.20	-13	38.20
<b>PCS 1900(30MHz-20GHz)</b>										
Low Channel										
951.4	33.36	179	2	H	-63.1	1.36	0.0	-64.46	-13	51.46
951.4	33.51	245	2	V	-60.5	1.36	0.0	-61.86	-13	48.86
3700.40	55.94	292	1.8	H	-49.5	1.30	11.00	-39.80	-13	26.80
3700.40	56.23	345	1.5	V	-49.0	1.30	11.00	-39.30	-13	26.30
5550.60	53.02	123	1.1	H	-49.4	1.70	10.90	-40.20	-13	27.20
5550.60	54.96	106	1.4	V	-47.6	1.70	10.90	-38.40	-13	25.40
Middle Channel										
950.2	33.59	139	1	H	-62.9	1.36	0.0	-64.26	-13	51.26
950.2	33.75	153	2	V	-60.3	1.36	0.0	-61.66	-13	48.66
3760.00	57.73	59	1.2	H	-47.4	1.30	10.70	-38.00	-13	25.00
3760.00	58.56	29	2.1	V	-46.5	1.30	10.70	-37.10	-13	24.10
5640.00	54.89	168	2.4	H	-47.5	1.70	10.90	-38.30	-13	25.30
5640.00	55.63	298	1.9	V	-46.9	1.70	10.90	-37.70	-13	24.70
High Channel										

957.6	33.76	274	2	H	-62.7	1.36	0.0	-64.06	-13	51.06
957.6	33.83	329	2	V	-60.2	1.36	0.0	-61.56	-13	48.56
3819.60	56.84	40	1.4	H	-48.3	1.30	10.70	-38.90	-13	25.90
3819.60	57.32	350	1.4	V	-47.7	1.30	10.70	-38.30	-13	25.30
5729.40	53.89	145	1.7	H	-48.3	1.70	11.10	-38.90	-13	25.90
5729.40	54.98	323	1.8	V	-47.4	1.70	11.10	-38.00	-13	25.00

Frequency (MHz)	Receiver Reading (dBµV)	Turn Table Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H / V)	Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
Band 2(30MHz-20GHz)										
Low Channel										
952.7	33.03	219	2	H	-63.5	1.36	0.0	-64.86	-13	51.86
952.7	32.93	231	2	V	-61.1	1.36	0.0	-62.46	-13	49.46
3704.80	50.09	118	1.4	H	-55.3	1.30	11.00	-45.60	-13	32.60
3704.80	50.56	33	1.4	V	-54.7	1.30	11.00	-45.00	-13	32.00
5557.20	48.52	47	1.3	H	-53.9	1.70	10.90	-44.70	-13	31.70
5557.20	49.83	129	1.2	V	-52.7	1.70	10.90	-43.50	-13	30.50
Middle Channel										
955.6	33.03	232	1	H	-63.5	1.36	0.0	-64.86	-13	51.86
955.6	33.04	9	2	V	-61.0	1.36	0.0	-62.36	-13	49.36
3760.00	51.42	242	2.4	H	-53.7	1.30	10.70	-44.30	-13	31.30
3760.00	52.03	129	1.4	V	-53.0	1.30	10.70	-43.60	-13	30.60
5640.00	47.24	221	2.3	H	-55.2	1.70	10.90	-46.00	-13	33.00
5640.00	48.23	225	1.3	V	-54.3	1.70	10.90	-45.10	-13	32.10
High Channel										
956.0	33.51	290	1	H	-63.0	1.36	0.0	-64.36	-13	51.36
956.0	33.43	31	3	V	-60.6	1.36	0.0	-61.96	-13	48.96
3815.20	50.47	133	2.5	H	-54.7	1.30	10.70	-45.30	-13	32.30
3815.20	51.34	48	2.3	V	-53.7	1.30	10.70	-44.30	-13	31.30
5722.80	46.29	312	2.3	H	-55.9	1.70	11.10	-46.50	-13	33.50
5722.80	46.95	43	2.5	V	-55.4	1.70	11.10	-46.00	-13	33.00
Band 4(30MHz-20GHz)										
Low Channel										
957.8	32.74	262	1	H	-63.8	1.36	0.0	-65.16	-13	52.16
957.8	32.63	219	2	V	-61.4	1.36	0.0	-62.76	-13	49.76
3424.80	50.46	297	1.8	H	-55.5	1.30	9.90	-46.90	-13	33.90
3424.80	49.25	172	2.4	V	-56.4	1.30	9.90	-47.80	-13	34.80
5137.20	47.34	246	1.7	H	-55.8	1.50	9.60	-47.70	-13	34.70
5137.20	48.99	184	2.5	V	-53.6	1.50	9.60	-45.50	-13	32.50
Middle Channel										
953.3	33.15	357	2	H	-63.4	1.36	0.0	-64.76	-13	51.76
953.3	33.13	31	2	V	-60.9	1.36	0.0	-62.26	-13	49.26
3465.20	50.29	276	2.3	H	-55.7	1.30	10.50	-46.50	-13	33.50
3465.20	49.53	143	1.1	V	-56.1	1.30	10.50	-46.90	-13	33.90
5197.80	50.58	205	1.6	H	-52.5	1.60	9.70	-44.40	-13	31.40
5197.80	51.01	10	2.4	V	-51.6	1.60	9.70	-43.50	-13	30.50
High Channel										
951.4	33.62	168	1	H	-62.9	1.36	0.0	-64.26	-13	51.26
951.4	33.59	5	1	V	-60.5	1.36	0.0	-61.86	-13	48.86
3505.20	50.34	133	1.6	H	-55.6	1.30	10.50	-46.40	-13	33.40
3505.20	49.47	211	1.9	V	-56.2	1.30	10.50	-47.00	-13	34.00
5257.80	48.52	309	1.0	H	-54.4	1.60	10.00	-46.00	-13	33.00
5257.80	49.31	185	2.0	V	-53.4	1.60	10.00	-45.00	-13	32.00
Band 5(30MHz-10GHz)										

Low Channel										
959.0	32.85	169	1	H	-63.7	1.36	0.0	-65.06	-13	52.06
959.0	32.76	317	3	V	-61.3	1.36	0.0	-62.66	-13	49.66
1652.80	50.23	225	1.9	H	-57.3	0.90	8.60	-49.60	-13	36.60
1652.80	49.08	316	2.3	V	-59.1	0.90	8.60	-51.40	-13	38.40
2479.20	58.02	226	1.2	H	-49.3	1.10	8.80	-41.60	-13	28.60
2479.20	58.14	215	1.2	V	-49.0	1.10	8.80	-41.30	-13	28.30
3305.60	46.15	352	1.3	H	-59.8	1.30	8.80	-52.30	-13	39.30
3305.60	46.74	197	1.8	V	-58.9	1.30	8.80	-51.40	-13	38.40
Middle Channel										
958.6	33.31	194	3	H	-63.2	1.36	0.0	-64.56	-13	51.56
958.6	33.26	254	1	V	-60.8	1.36	0.0	-62.16	-13	49.16
1673.20	56.15	228	1.4	H	-51.4	0.90	8.60	-43.70	-13	30.70
1673.20	55.26	265	1.9	V	-52.9	0.90	8.60	-45.20	-13	32.20
2509.80	57.85	60	1.8	H	-49.5	1.10	8.80	-41.80	-13	28.80
2509.80	58.78	297	1.3	V	-48.3	1.10	8.80	-40.60	-13	27.60
3346.40	45.27	307	1.9	H	-60.7	1.30	8.80	-53.20	-13	40.20
3346.40	45.28	68	2.5	V	-60.4	1.30	8.80	-52.90	-13	39.90
High Channel										
952.6	33.85	78	1	H	-62.7	1.36	0.0	-64.06	-13	51.06
952.6	33.74	116	1	V	-60.3	1.36	0.0	-61.66	-13	48.66
1693.20	53.27	122	1.5	H	-54.3	0.90	8.60	-46.60	-13	33.60
1693.20	52.49	92	2.3	V	-55.7	0.90	8.60	-48.00	-13	35.00
2539.80	57.96	210	2.4	H	-49.4	1.10	8.80	-41.70	-13	28.70
2539.80	58.35	349	1.7	V	-48.8	1.10	8.80	-41.10	-13	28.10
3386.40	45.83	210	2.4	H	-60.1	1.30	9.90	-51.50	-13	38.50
3386.40	46.12	284	2.4	V	-59.5	1.30	9.90	-50.90	-13	37.90

**LTE Bands:** (pre-scan QPSK & 16QAM & 64QAM with all bandwidths, the worst case as below)

Frequency (MHz)	Receiver Reading (dBμV)	Turn Table	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Angle Degree	Height (m)	Polar (H / V)	Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
Band 2 (30MHz-20GHz)										
QPSK, 1.4MHz, Low Channel										
951.1	31.21	128	1.3	H	-65.3	1.36	0.0	-66.66	-13	53.66
951.1	31.67	117	1.1	V	-62.4	1.36	0.0	-63.76	-13	50.76
3701.40	48.83	6	2.2	H	-56.6	1.30	11.00	-46.90	-13	33.90
3701.40	48.22	332	2.4	V	-57.0	1.30	11.00	-47.30	-13	34.30
5552.10	47.64	174	1.4	H	-54.8	1.70	10.90	-45.60	-13	32.60
5552.10	47.15	185	1.9	V	-55.4	1.70	10.90	-46.20	-13	33.20
QPSK, 1.4MHz, Middle Channel										
950.4	31.40	30	2.3	H	-65.1	1.36	0.0	-66.46	-13	53.46
950.4	31.83	356	1.1	V	-62.2	1.36	0.0	-63.56	-13	50.56
3760.00	49.12	258	2.3	H	-56.0	1.30	10.70	-46.60	-13	33.60
3760.00	48.59	181	1.7	V	-56.5	1.30	10.70	-47.10	-13	34.10
5640.00	47.96	237	1.8	H	-54.5	1.70	10.90	-45.30	-13	32.30
5640.00	47.68	57	1.4	V	-54.9	1.70	10.90	-45.70	-13	32.70
QPSK, 1.4MHz, High Channel										
952.5	31.64	222	1.9	H	-64.9	1.36	0.0	-66.26	-13	53.26
952.5	31.96	25	1.0	V	-62.1	1.36	0.0	-63.46	-13	50.46
3818.60	50.25	68	1.9	H	-54.9	1.30	10.70	-45.50	-13	32.50
3818.60	49.76	20	1.9	V	-55.3	1.30	10.70	-45.90	-13	32.90
5727.90	48.84	107	1.8	H	-53.3	1.70	11.10	-43.90	-13	30.90
5727.90	48.27	117	2.0	V	-54.1	1.70	11.10	-44.70	-13	31.70
Band 4(30MHz-20GHz)										
QPSK, 1.4MHz, Low Channel										
952.9	30.35	329	1.3	H	-66.2	1.36	0.0	-67.56	-13	54.56
952.9	31.58	163	2.4	V	-62.5	1.36	0.0	-63.86	-13	50.86
3421.40	48.64	135	2.0	H	-57.3	1.30	9.90	-48.70	-13	35.70
3421.40	48.21	53	2.1	V	-57.4	1.30	9.90	-48.80	-13	35.80
5132.10	47.87	52	2.1	H	-55.3	1.50	9.60	-47.20	-13	34.20
5132.10	47.18	152	1.2	V	-55.4	1.50	9.60	-47.30	-13	34.30
QPSK, 1.4MHz, Middle Channel										
948.5	30.56	214	2.2	H	-65.9	1.36	0.0	-67.26	-13	54.26
948.5	31.72	33	2.5	V	-62.3	1.36	0.0	-63.66	-13	50.66
3465.00	48.97	17	1.3	H	-57.0	1.30	10.50	-47.80	-13	34.80
3465.00	48.58	246	1.7	V	-57.0	1.30	10.50	-47.80	-13	34.80
5197.50	48.15	159	1.7	H	-54.9	1.60	9.70	-46.80	-13	33.80
5197.50	47.69	128	1.5	V	-55.0	1.60	9.70	-46.90	-13	33.90
QPSK, 1.4MHz, High Channel										
949.6	30.88	57	2.1	H	-65.6	1.36	0.0	-66.96	-13	53.96
949.6	32.06	195	1.1	V	-62.0	1.36	0.0	-63.36	-13	50.36
3508.60	50.08	56	1.5	H	-55.9	1.30	10.50	-46.70	-13	33.70
3508.60	49.67	119	1.4	V	-56.0	1.30	10.50	-46.80	-13	33.80
5262.90	48.94	159	1.1	H	-54.0	1.60	10.00	-45.60	-13	32.60
5262.90	48.45	67	1.3	V	-54.2	1.60	10.00	-45.80	-13	32.80

Band 5(30MHz-10GHz)										
QPSK, 1.4MHz, Low Channel										
956.5	30.45	213	1.5	H	-66.1	1.36	0.0	-67.46	-13	54.46
956.5	31.69	273	2.1	V	-62.4	1.36	0.0	-63.76	-13	50.76
1649.40	49.78	82	1.9	H	-57.9	0.90	8.60	-50.20	-13	37.20
1649.40	49.25	22	1.8	V	-58.9	0.90	8.60	-51.20	-13	38.20
2474.10	48.36	54	1.6	H	-59.0	1.10	8.80	-51.30	-13	38.30
2474.10	48.91	141	1.6	V	-58.2	1.10	8.80	-50.50	-13	37.50
3298.80	47.19	318	2.2	H	-58.8	1.30	8.80	-51.30	-13	38.30
3298.80	46.72	64	2.0	V	-59.0	1.30	8.80	-51.50	-13	38.50
QPSK, 1.4MHz, Middle Channel										
954.7	32.16	155	2.1	H	-64.3	1.36	0.0	-65.66	-13	52.66
954.7	32.20	15	2.3	V	-61.9	1.36	0.0	-63.26	-13	50.26
1673.00	50.24	284	2.3	H	-57.3	0.90	8.60	-49.60	-13	36.60
1673.00	49.89	60	2.0	V	-58.3	0.90	8.60	-50.60	-13	37.60
2509.50	48.15	162	1.3	H	-59.2	1.10	8.80	-51.50	-13	38.50
2509.50	48.53	51	1.0	V	-58.6	1.10	8.80	-50.90	-13	37.90
3346.00	47.68	98	2.0	H	-58.3	1.30	8.80	-50.80	-13	37.80
3346.00	47.27	307	1.3	V	-58.4	1.30	8.80	-50.90	-13	37.90
QPSK, 1.4MHz, High Channel										
953.2	32.59	104	1.4	H	-63.9	1.36	0.0	-65.26	-13	52.26
953.2	32.35	246	2.4	V	-61.7	1.36	0.0	-63.06	-13	50.06
1696.60	51.44	80	2.2	H	-56.1	0.90	8.60	-48.40	-13	35.40
1696.60	50.85	238	1.2	V	-57.3	0.90	8.60	-49.60	-13	36.60
2544.90	48.96	289	1.1	H	-58.4	1.10	8.80	-50.70	-13	37.70
2544.90	49.51	75	1.0	V	-57.6	1.10	8.80	-49.90	-13	36.90
3393.20	48.58	93	1.9	H	-57.4	1.30	9.90	-48.80	-13	35.80
3393.20	48.17	112	1.2	V	-57.5	1.30	9.90	-48.90	-13	35.90
Band 7(30MHz-26.5GHz)										
QPSK, 5MHz, Low Channel										
957.6	31.27	185	2.3	H	-65.2	1.36	0.0	-66.56	-25	41.56
957.6	32.34	250	1.7	V	-61.7	1.36	0.0	-63.06	-25	38.06
5005.00	49.23	27	2.3	H	-54.1	1.50	9.80	-45.80	-25	20.80
5005.00	49.86	57	2.0	V	-52.7	1.50	9.80	-44.40	-25	19.40
7507.50	52.78	312	2.2	H	-43.2	1.90	10.80	-34.30	-25	9.30
7507.50	52.07	256	1.7	V	-44.2	1.90	10.80	-35.30	-25	10.30
QPSK, 5MHz, Middle Channel										
956.6	31.56	32	2.0	H	-64.9	1.36	0.0	-66.26	-25	41.26
956.6	32.75	355	1.2	V	-61.3	1.36	0.0	-62.66	-25	37.66
5070.00	49.94	212	1.8	H	-53.2	1.50	9.60	-45.10	-25	20.10
5070.00	50.56	24	1.2	V	-52.1	1.50	9.60	-44.00	-25	19.00
7605.00	53.45	358	2.0	H	-42.4	1.90	11.00	-33.30	-25	8.30
7605.00	52.69	267	2.3	V	-43.5	1.90	11.00	-34.40	-25	9.40
QPSK, 5MHz, High Channel										
955.2	31.89	90	1.8	H	-64.6	1.36	0.0	-65.96	-25	40.96
955.2	32.93	256	2.2	V	-61.1	1.36	0.0	-62.46	-25	37.46
5135.00	50.68	57	1.5	H	-52.5	1.50	9.60	-44.40	-25	19.40
5135.00	51.39	88	2.2	V	-51.2	1.50	9.60	-43.10	-25	18.10
7702.50	54.27	76	1.4	H	-41.5	1.90	10.90	-32.50	-25	7.50
7702.50	53.73	189	1.3	V	-42.4	1.90	10.90	-33.40	-25	8.40



Band 12(30MHz-10GHz)										
QPSK, 1.4MHz, Low Channel										
952.0	30.22	256	2.0	H	-66.3	1.36	0.0	-67.66	-13	54.66
952.0	31.60	247	1.9	V	-62.5	1.36	0.0	-63.86	-13	50.86
1399.40	48.12	211	2.4	H	-59.6	0.80	7.90	-52.50	-13	39.50
1399.40	48.87	329	2.2	V	-59.5	0.80	7.90	-52.40	-13	39.40
2099.10	47.79	5	2.4	H	-59.5	1.00	8.30	-52.20	-13	39.20
2099.10	48.32	326	1.9	V	-59.5	1.00	8.30	-52.20	-13	39.20
2798.80	46.96	290	1.9	H	-59.6	1.20	9.20	-51.60	-13	38.60
2798.80	47.45	187	1.4	V	-58.9	1.20	9.20	-50.90	-13	37.90
QPSK, 1.4MHz, Middle Channel										
955.7	30.66	343	1.8	H	-65.8	1.36	0.0	-67.16	-13	54.16
955.7	32.51	64	2.5	V	-61.5	1.36	0.0	-62.86	-13	49.86
1415.00	48.54	352	1.7	H	-59.2	0.80	7.90	-52.10	-13	39.10
1415.00	49.13	80	2.3	V	-59.3	0.80	7.90	-52.20	-13	39.20
2122.50	48.25	246	1.1	H	-59.1	1.00	8.30	-51.80	-13	38.80
2122.50	48.77	137	1.6	V	-59.1	1.00	8.30	-51.80	-13	38.80
2830.00	47.39	153	1.7	H	-59.2	1.20	9.20	-51.20	-13	38.20
2830.00	47.81	47	1.1	V	-58.5	1.20	9.20	-50.50	-13	37.50
QPSK, 1.4MHz, High Channel										
958.6	30.74	315	2.4	H	-65.8	1.36	0.0	-67.16	-13	54.16
958.6	32.83	233	2.4	V	-61.2	1.36	0.0	-62.56	-13	49.56
1430.60	49.27	204	2.1	H	-58.4	0.80	7.90	-51.30	-13	38.30
1430.60	49.94	339	1.0	V	-58.5	0.80	7.90	-51.40	-13	38.40
2145.90	48.86	95	1.0	H	-58.4	1.00	8.30	-51.10	-13	38.10
2145.90	49.39	252	1.8	V	-58.4	1.00	8.30	-51.10	-13	38.10
2861.20	47.73	19	2.4	H	-58.6	1.20	9.00	-50.80	-13	37.80
2861.20	48.28	211	1.9	V	-57.8	1.20	9.00	-50.00	-13	37.00
Band 17(30MHz-10GHz)										
QPSK, 5MHz, Low Channel										
952.3	32.12	84	1.9	H	-64.4	1.36	0.0	-65.76	-13	52.76
952.3	30.89	168	1.8	V	-63.2	1.36	0.0	-64.56	-13	51.56
1413.00	48.63	255	1.4	H	-59.1	0.80	7.90	-52.00	-13	39.00
1413.00	49.08	56	2.3	V	-59.3	0.80	7.90	-52.20	-13	39.20
2119.50	46.87	153	2.4	H	-60.4	1.00	8.30	-53.10	-13	40.10
2119.50	47.24	51	2.0	V	-60.6	1.00	8.30	-53.30	-13	40.30
2826.00	47.96	50	2.3	H	-58.6	1.20	9.20	-50.60	-13	37.60
2826.00	48.42	164	1.5	V	-57.9	1.20	9.20	-49.90	-13	36.90
QPSK, 5MHz, Middle Channel										
949.5	32.34	293	1.0	H	-64.2	1.36	0.0	-65.56	-13	52.56
949.5	31.18	81	1.7	V	-62.9	1.36	0.0	-64.26	-13	51.26
1420.00	48.93	88	1.9	H	-58.8	0.80	7.90	-51.70	-13	38.70
1420.00	49.45	197	1.5	V	-59.0	0.80	7.90	-51.90	-13	38.90
2130.00	47.24	64	1.2	H	-60.1	1.00	8.30	-52.80	-13	39.80
2130.00	47.56	80	2.1	V	-60.3	1.00	8.30	-53.00	-13	40.00
2840.00	48.37	146	2.3	H	-58.2	1.20	9.20	-50.20	-13	37.20
2840.00	48.84	274	2.1	V	-57.5	1.20	9.20	-49.50	-13	36.50
QPSK, 5MHz, High Channel										
958.1	32.46	288	2.4	H	-64.0	1.36	0.0	-65.36	-13	52.36
958.1	31.50	329	2.1	V	-62.6	1.36	0.0	-63.96	-13	50.96

1427.00	49.89	235	2.0	H	-57.8	0.80	7.90	-50.70	-13	37.70
1427.00	50.52	73	1.6	V	-57.9	0.80	7.90	-50.80	-13	37.80
2140.50	47.91	71	1.1	H	-59.4	1.00	8.30	-52.10	-13	39.10
2140.50	48.48	257	1.8	V	-59.3	1.00	8.30	-52.00	-13	39.00
2854.00	48.73	12	2.0	H	-57.6	1.20	9.00	-49.80	-13	36.80
2854.00	49.34	68	1.6	V	-56.7	1.20	9.00	-48.90	-13	35.90
Band 38(30MHz-26.5GHz)										
QPSK, 5MHz, Low Channel										
953.6	32.68	121	1.1	H	-63.8	1.36	0.0	-65.16	-25	-40.16
953.6	32.17	191	2.0	V	-61.9	1.36	0.0	-63.26	-25	-38.26
5145.00	49.65	46	2.4	H	-53.5	1.50	9.60	-45.40	-25	20.40
5145.00	50.28	113	2.4	V	-52.3	1.50	9.60	-44.20	-25	19.20
7717.50	54.81	214	1.6	H	-41.0	1.90	10.90	-32.00	-25	7.00
7717.50	55.57	21	1.5	V	-40.6	1.90	10.90	-31.60	-25	6.60
QPSK, 5MHz, Middle Channel										
952.4	32.82	320	2.2	H	-63.7	1.36	0.0	-65.06	-25	-40.06
952.4	32.65	339	2.1	V	-61.4	1.36	0.0	-62.76	-25	-37.76
5190.00	50.36	156	1.8	H	-52.7	1.60	9.70	-44.60	-25	19.60
5190.00	50.95	285	2.5	V	-51.7	1.60	9.70	-43.60	-25	18.60
7785.00	55.44	317	1.6	H	-40.3	1.90	11.10	-31.10	-25	6.10
7785.00	56.08	346	2.5	V	-40.0	1.90	11.10	-30.80	-25	5.80
QPSK, 5MHz, High Channel										
956.7	33.13	239	2.3	H	-63.4	1.36	0.0	-64.76	-25	-39.76
956.7	32.98	84	2.1	V	-61.1	1.36	0.0	-62.46	-25	-37.46
5235.00	50.91	265	1.9	H	-52.1	1.60	9.70	-44.00	-25	19.00
5235.00	51.68	83	1.5	V	-51.0	1.60	9.70	-42.90	-25	17.90
7852.50	55.89	32	2.1	H	-39.8	1.90	11.10	-30.60	-25	5.60
7852.50	56.75	237	1.9	V	-39.3	1.90	11.10	-30.10	-25	5.10
Band 40 Lower Band (30MHz-25GHz)										
QPSK, 5MHz, Low Channel										
954.8	32.41	88	2.0	H	-64.1	1.36	0.0	-65.46	-40	-25.46
954.8	31.86	71	2.4	V	-62.2	1.36	0.0	-63.56	-40	-23.56
4615.00	47.37	354	1.8	H	-56.6	1.50	10.50	-47.60	-40	7.60
4615.00	47.84	306	1.9	V	-55.7	1.50	10.50	-46.70	-40	6.70
6922.50	44.39	243	1.6	H	-53.9	1.90	10.30	-45.50	-40	5.50
6922.50	44.08	279	1.1	V	-54.3	1.90	10.30	-45.90	-40	5.90
QPSK, 5MHz, Middle Channel										
953.4	32.63	336	1.3	H	-63.9	1.36	0.0	-65.26	-40	-25.26
953.4	32.85	246	2.3	V	-61.2	1.36	0.0	-62.56	-40	-22.56
4620.00	47.71	179	1.7	H	-56.3	1.50	10.50	-47.30	-40	7.30
4620.00	48.16	159	2.3	V	-55.4	1.50	10.50	-46.40	-40	6.40
6930.00	44.75	101	2.4	H	-53.5	1.90	10.30	-45.10	-40	5.10
6930.00	44.33	123	1.1	V	-54.0	1.90	10.30	-45.60	-40	5.60
QPSK, 5MHz, High Channel										
956.2	32.93	13	1.1	H	-63.6	1.36	0.0	-64.96	-40	-24.96
956.2	33.02	257	1.1	V	-61.0	1.36	0.0	-62.36	-40	-22.36
4625.00	48.25	342	2.5	H	-55.7	1.50	10.50	-46.70	-40	6.70
4625.00	48.68	289	2.3	V	-54.9	1.50	10.50	-45.90	-40	5.90
6937.50	45.14	45	1.0	H	-53.1	1.90	10.30	-44.70	-40	4.70
6937.50	44.72	284	2.1	V	-53.6	1.90	10.30	-45.20	-40	5.20

Band 40 Upper Band (30MHz-25GHz)										
QPSK, 5MHz, Low Channel										
948.2	31.59	231	2.4	H	-64.9	1.36	0.0	-66.26	-40	26.26
948.2	31.94	167	2.2	V	-62.1	1.36	0.0	-63.46	-40	23.46
4705.00	47.98	275	1.8	H	-55.8	1.50	10.30	-47.00	-40	7.00
4705.00	48.32	196	2.2	V	-55.0	1.50	10.30	-46.20	-40	6.20
7057.50	44.69	326	2.4	H	-52.7	1.90	10.20	-44.40	-40	4.40
7057.50	44.21	314	1.6	V	-53.3	1.90	10.20	-45.00	-40	5.00
QPSK, 5MHz, Middle Channel										
954.7	32.4	298	2.3	H	-64.1	1.36	0.0	-65.46	-40	25.46
954.7	31.87	280	2.4	V	-62.2	1.36	0.0	-63.56	-40	23.56
4710.00	48.36	123	2.4	H	-55.5	1.50	10.30	-46.70	-40	6.70
4710.00	48.85	4	2.3	V	-54.5	1.50	10.30	-45.70	-40	5.70
7065.00	45.07	252	2.1	H	-52.3	1.90	10.20	-44.00	-40	4.00
7065.00	44.54	328	1.3	V	-53.0	1.90	10.20	-44.70	-40	4.70
QPSK, 5MHz, High Channel										
938.8	33.12	280	2.4	H	-63.4	1.36	0.0	-64.76	-40	24.76
938.8	31.97	312	1.9	V	-62.1	1.36	0.0	-63.46	-40	23.46
4715.00	48.78	68	1.4	H	-55.0	1.50	10.30	-46.20	-40	6.20
4715.00	49.27	259	1.8	V	-54.1	1.50	10.30	-45.30	-40	5.30
7072.50	45.64	247	2.4	H	-51.7	1.90	10.20	-43.40	-40	3.40
7072.50	45.19	303	1.0	V	-52.3	1.90	10.20	-44.00	-40	4.00
Band 41 (30MHz-27GHz)										
QPSK, 5MHz, Low Channel										
960.4	31.85	274	1.5	H	-64.7	1.36	0.0	-66.06	-25	41.06
960.4	32.34	191	1.3	V	-61.7	1.36	0.0	-63.06	-25	38.06
4997.00	53.45	183	2.4	H	-49.9	1.50	9.80	-41.60	-25	16.60
4997.00	53.94	356	1.0	V	-48.6	1.50	9.80	-40.30	-25	15.30
7495.50	54.18	37	1.6	H	-41.8	1.90	10.80	-32.90	-25	7.90
7495.50	54.87	101	1.6	V	-41.4	1.90	10.80	-32.50	-25	7.50
QPSK, 5MHz, Middle Channel										
960.3	32.66	347	1.8	H	-63.8	1.36	0.0	-65.16	-25	40.16
960.3	32.84	341	2.0	V	-61.2	1.36	0.0	-62.56	-25	37.56
5186.00	54.13	178	2.2	H	-48.9	1.60	9.70	-40.80	-25	15.80
5186.00	54.61	186	2.3	V	-48.0	1.60	9.70	-39.90	-25	14.90
7779.00	54.92	202	2.5	H	-40.8	1.90	11.10	-31.60	-25	6.60
7779.00	55.58	1	1.6	V	-40.5	1.90	11.10	-31.30	-25	6.30
QPSK, 5MHz, High Channel										
950.9	33.20	91	1.0	H	-63.3	1.36	0.0	-64.66	-25	39.66
950.9	33.12	357	2.5	V	-60.9	1.36	0.0	-62.26	-25	37.26
5375.00	54.78	339	1.1	H	-48.0	1.70	10.50	-39.20	-25	14.20
5375.00	55.25	289	1.2	V	-47.5	1.70	10.50	-38.70	-25	13.70
8062.50	55.69	83	1.6	H	-40.0	2.00	11.40	-30.60	-25	5.60
8062.50	56.32	83	2.2	V	-39.6	2.00	11.40	-30.20	-25	5.20
Band 42 (30MHz-36GHz)										
QPSK, 5MHz, Low Channel										
949.7	32.73	293	2.1	H	-63.8	1.36	0.0	-65.16	-13	52.16
949.7	31.88	253	2.4	V	-62.2	1.36	0.0	-63.56	-13	50.56
6905.00	44.86	55	1.7	H	-53.4	1.90	10.30	-45.00	-13	32.00
6905.00	44.57	236	2.2	V	-53.8	1.90	10.30	-45.40	-13	32.40

QPSK, 5MHz, Middle Channel										
958.8	33.23	84	2.1	H	-63.3	1.36	0.0	-64.66	-13	51.66
958.8	32.62	287	2.1	V	-61.4	1.36	0.0	-62.76	-13	49.76
7000.00	45.25	104	1.9	H	-52.5	1.90	10.20	-44.20	-13	31.20
7000.00	44.98	145	1.8	V	-52.8	1.90	10.20	-44.50	-13	31.50
QPSK, 5MHz, High Channel										
960.6	33.56	47	2.5	H	-62.9	1.36	0.0	-64.26	-13	51.26
960.6	32.95	240	1.7	V	-61.1	1.36	0.0	-62.46	-13	49.46
7095.00	45.69	309	2.0	H	-51.7	1.90	10.20	-43.40	-13	30.40
7095.00	45.36	117	2.2	V	-52.2	1.90	10.20	-43.90	-13	30.90
Band 66 (30MHz-20GHz)										
QPSK, 1.4MHz, Low Channel										
961.3	33.30	348	2.3	H	-63.2	1.36	0.0	-64.56	-13	51.56
961.3	33.25	111	2.3	V	-60.8	1.36	0.0	-62.16	-13	49.16
3421.40	48.57	312	1.9	H	-57.4	1.30	9.90	-48.80	-13	35.80
3421.40	48.12	204	2.5	V	-57.5	1.30	9.90	-48.90	-13	35.90
5132.10	47.38	128	1.9	H	-55.8	1.50	9.60	-47.70	-13	34.70
5132.10	47.81	99	1.5	V	-54.8	1.50	9.60	-46.70	-13	33.70
QPSK, 1.4MHz, Middle Channel										
947.9	33.43	38	1.1	H	-63.1	1.36	0.0	-64.46	-13	51.46
947.9	33.62	37	1.3	V	-60.4	1.36	0.0	-61.76	-13	48.76
3490.00	49.08	21	1.7	H	-56.9	1.30	10.50	-47.70	-13	34.70
3490.00	48.61	173	2.1	V	-57.0	1.30	10.50	-47.80	-13	34.80
5235.00	52.89	74	2.4	H	-50.2	1.60	9.70	-42.10	-13	29.10
5235.00	53.32	219	1.1	V	-49.3	1.60	9.70	-41.20	-13	28.20
QPSK, 1.4MHz, High Channel										
955.4	33.67	273	2.0	H	-62.8	1.36	0.0	-64.16	-13	51.16
955.4	33.82	128	1.4	V	-60.2	1.36	0.0	-61.56	-13	48.56
3558.60	50.36	258	1.1	H	-55.3	1.30	10.90	-45.70	-13	32.70
3558.60	49.87	144	1.4	V	-55.6	1.30	10.90	-46.00	-13	33.00
5337.90	48.94	255	2.4	H	-54.0	1.60	10.00	-45.60	-13	32.60
5337.90	49.45	191	1.8	V	-53.2	1.60	10.00	-44.80	-13	31.80

Ant 4

Frequency (MHz)	Receiver Reading (dBµV)	Turn Table	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		Angle Degree	Height (m)	Polar (H / V)	Substituted Level (dBm)	Cable loss (dB)	Antenna Gain (dB)			
Band 2 (30MHz-20GHz)										
QPSK, 1.4MHz, Low Channel										
958.8	32.02	168	2	H	-64.5	1.36	0.0	-65.86	-13	52.86
958.8	32.21	151	2	V	-61.8	1.36	0.0	-63.16	-13	50.16
3701.40	51.72	351	1.1	H	-53.7	1.30	11.00	-44.00	-13	31.00
3701.40	52.21	113	2.2	V	-53.0	1.30	11.00	-43.30	-13	30.30
5552.10	47.61	127	1.9	H	-54.8	1.70	10.90	-45.60	-13	32.60
5552.10	48.92	303	1.8	V	-53.6	1.70	10.90	-44.40	-13	31.40
QPSK, 1.4MHz, Middle Channel										
951.6	33.08	333	2	H	-63.4	1.36	0.0	-64.76	-13	51.76
951.6	33.21	6	1	V	-60.8	1.36	0.0	-62.16	-13	49.16
3760.00	54.35	206	2.3	H	-50.8	1.30	10.70	-41.40	-13	28.40
3760.00	55.46	59	1.9	V	-49.6	1.30	10.70	-40.20	-13	27.20
5640.00	49.27	196	2.3	H	-53.1	1.70	10.90	-43.90	-13	30.90
5640.00	50.61	330	1.5	V	-51.9	1.70	10.90	-42.70	-13	29.70
QPSK, 1.4MHz, High Channel										
955.8	33.85	94	2	H	-62.7	1.36	0.0	-64.06	-13	51.06
955.8	33.91	244	2	V	-60.1	1.36	0.0	-61.46	-13	48.46
3818.60	52.38	139	1.7	H	-52.8	1.30	10.70	-43.40	-13	30.40
3818.60	53.41	350	1.6	V	-51.7	1.30	10.70	-42.30	-13	29.30
5727.90	48.93	360	1.7	H	-53.3	1.70	11.10	-43.90	-13	30.90
5727.90	49.15	138	1.7	V	-53.2	1.70	11.10	-43.80	-13	30.80
Band 4 (30MHz-20GHz)										
QPSK, 1.4MHz, Low Channel										
950.2	31.92	165	2	H	-64.6	1.36	0.0	-65.96	-13	52.96
950.2	32.08	28	1	V	-62.0	1.36	0.0	-63.36	-13	50.36
3421.40	51.87	307	1.8	H	-54.1	1.30	9.90	-45.50	-13	32.50
3421.40	52.12	258	2.3	V	-53.5	1.30	9.90	-44.90	-13	31.90
5132.10	51.43	229	1.4	H	-51.7	1.50	9.60	-43.60	-13	30.60
5132.10	52.96	104	1.0	V	-49.7	1.50	9.60	-41.60	-13	28.60
QPSK, 1.4MHz, Middle Channel										
954.7	32.93	339	2	H	-63.6	1.36	0.0	-64.96	-13	51.96
954.7	33.14	45	2	V	-60.9	1.36	0.0	-62.26	-13	49.26
3465.00	51.46	277	2.2	H	-54.5	1.30	10.50	-45.30	-13	32.30
3465.00	52.28	159	1.9	V	-53.3	1.30	10.50	-44.10	-13	31.10
5197.50	53.24	274	1.0	H	-49.8	1.60	9.70	-41.70	-13	28.70
5197.50	54.03	49	1.4	V	-48.6	1.60	9.70	-40.50	-13	27.50
QPSK, 1.4MHz, High Channel										
956.1	33.73	130	1	H	-62.8	1.36	0.0	-64.16	-13	51.16
956.1	33.84	247	2	V	-60.2	1.36	0.0	-61.56	-13	48.56
3508.60	51.53	298	1.1	H	-54.4	1.30	10.50	-45.20	-13	32.20
3508.60	52.17	289	2.1	V	-53.5	1.30	10.50	-44.30	-13	31.30
5262.90	52.61	212	2.0	H	-50.3	1.60	10.00	-41.90	-13	28.90
5262.90	53.85	97	1.8	V	-48.8	1.60	10.00	-40.40	-13	27.40

Band 5 (30MHz-10GHz)										
QPSK, 1.4MHz, Low Channel										
956.4	32.15	257	2	H	-64.4	1.36	0.0	-65.76	-13	52.76
956.4	32.34	216	1	V	-61.7	1.36	0.0	-63.06	-13	50.06
1649.40	44.85	88	2.0	H	-62.8	0.90	8.60	-55.10	-13	42.10
1649.40	45.06	76	2.1	V	-63.1	0.90	8.60	-55.40	-13	42.40
2474.10	45.17	85	2.3	H	-62.2	1.10	8.80	-54.50	-13	41.50
2474.10	45.42	305	1.4	V	-61.7	1.10	8.80	-54.00	-13	41.00
3298.80	46.08	305	2.2	H	-59.9	1.30	8.80	-52.40	-13	39.40
3298.80	45.51	121	2.4	V	-60.2	1.30	8.80	-52.70	-13	39.70
QPSK, 1.4MHz, Middle Channel										
957.1	32.81	294	2	H	-63.7	1.36	0.0	-65.06	-13	52.06
957.1	33.02	110	1	V	-61.0	1.36	0.0	-62.36	-13	49.36
1673.00	46.18	165	2.3	H	-61.4	0.90	8.60	-53.70	-13	40.70
1673.00	45.73	126	1.9	V	-62.4	0.90	8.60	-54.70	-13	41.70
2509.50	49.72	231	2.2	H	-57.6	1.10	8.80	-49.90	-13	36.90
2509.50	50.36	60	1.3	V	-56.8	1.10	8.80	-49.10	-13	36.10
3346.00	45.73	169	1.0	H	-60.3	1.30	8.80	-52.80	-13	39.80
3346.00	45.39	76	2.0	V	-60.3	1.30	8.80	-52.80	-13	39.80
QPSK, 1.4MHz, High Channel										
954.2	33.29	239	1	H	-63.2	1.36	0.0	-64.56	-13	51.56
954.2	33.33	294	2	V	-60.7	1.36	0.0	-62.06	-13	49.06
1696.60	45.73	38	1.8	H	-61.8	0.90	8.60	-54.10	-13	41.10
1696.60	45.28	65	1.8	V	-62.9	0.90	8.60	-55.20	-13	42.20
2544.90	46.51	200	2.5	H	-60.9	1.10	8.80	-53.20	-13	40.20
2544.90	47.52	120	1.7	V	-59.6	1.10	8.80	-51.90	-13	38.90
3393.20	45.86	122	2.3	H	-60.1	1.30	9.90	-51.50	-13	38.50
3393.20	45.45	266	1.9	V	-60.2	1.30	9.90	-51.60	-13	38.60
Band 12 (30MHz-10GHz)										
QPSK, 1.4MHz, Low Channel										
955.2	32.21	237	2	H	-64.3	1.36	0.0	-65.66	-13	52.66
955.2	32.44	328	2	V	-61.6	1.36	0.0	-62.96	-13	49.96
1399.40	45.81	206	1.7	H	-61.9	0.80	7.90	-54.80	-13	41.80
1399.40	46.18	349	1.3	V	-62.2	0.80	7.90	-55.10	-13	42.10
2099.10	50.47	109	2.3	H	-56.8	1.00	8.30	-49.50	-13	36.50
2099.10	50.53	358	1.0	V	-57.3	1.00	8.30	-50.00	-13	37.00
2798.80	46.02	274	1.8	H	-60.5	1.20	9.20	-52.50	-13	39.50
2798.80	45.68	44	1.9	V	-60.6	1.20	9.20	-52.60	-13	39.60
QPSK, 1.4MHz, Middle Channel										
955.9	32.63	25	2	H	-63.9	1.36	0.0	-65.26	-13	52.26
955.9	32.85	159	2	V	-61.2	1.36	0.0	-62.56	-13	49.56
1415.00	46.39	280	1.5	H	-61.3	0.80	7.90	-54.20	-13	41.20
1415.00	45.82	18	1.6	V	-62.6	0.80	7.90	-55.50	-13	42.50
2122.50	48.75	339	1.9	H	-58.6	1.00	8.30	-51.30	-13	38.30
2122.50	49.62	132	1.4	V	-58.2	1.00	8.30	-50.90	-13	37.90
2830.00	47.01	243	1.7	H	-59.6	1.20	9.20	-51.60	-13	38.60
2830.00	47.46	275	2.0	V	-58.9	1.20	9.20	-50.90	-13	37.90
QPSK, 1.4MHz, High Channel										
951.8	33.42	338	2	H	-63.1	1.36	0.0	-64.46	-13	51.46
951.8	33.49	71	1	V	-60.6	1.36	0.0	-61.96	-13	48.96

1430.60	46.17	318	2.1	H	-61.5	0.80	7.90	-54.40	-13	41.40
1430.60	46.02	163	1.3	V	-62.4	0.80	7.90	-55.30	-13	42.30
2145.90	50.13	359	1.4	H	-57.2	1.00	8.30	-49.90	-13	36.90
2145.90	49.85	339	2.0	V	-58.0	1.00	8.30	-50.70	-13	37.70
2861.20	46.74	176	2.4	H	-59.6	1.20	9.00	-51.80	-13	38.80
2861.20	47.13	263	1.7	V	-58.9	1.20	9.00	-51.10	-13	38.10
Band 17 (30MHz-10GHz)										
QPSK, 5MHz, Low Channel										
952.0	32.35	122	2	H	-64.2	1.36	0.0	-65.56	-13	52.56
952.0	32.51	262	1	V	-61.5	1.36	0.0	-62.86	-13	49.86
1413.00	46.04	72	1.4	H	-61.7	0.80	7.90	-54.60	-13	41.60
1413.00	47.08	155	2.0	V	-61.3	0.80	7.90	-54.20	-13	41.20
2119.50	50.83	244	1.5	H	-56.5	1.00	8.30	-49.20	-13	36.20
2119.50	50.42	154	2.0	V	-57.4	1.00	8.30	-50.10	-13	37.10
2826.00	46.69	266	2.3	H	-59.9	1.20	9.20	-51.90	-13	38.90
2826.00	47.53	144	1.8	V	-58.8	1.20	9.20	-50.80	-13	37.80
QPSK, 5MHz, Middle Channel										
955.9	32.73	165	2	H	-63.8	1.36	0.0	-65.16	-13	52.16
955.9	32.91	165	1	V	-61.1	1.36	0.0	-62.46	-13	49.46
1420.00	45.45	17	1.4	H	-62.3	0.80	7.90	-55.20	-13	42.20
1420.00	45.57	12	1.2	V	-62.8	0.80	7.90	-55.70	-13	42.70
2130.00	53.19	122	2.4	H	-54.1	1.00	8.30	-46.80	-13	33.80
2130.00	52.56	144	1.9	V	-55.3	1.00	8.30	-48.00	-13	35.00
2840.00	46.15	18	2.1	H	-60.4	1.20	9.20	-52.40	-13	39.40
2840.00	46.41	37	2.4	V	-59.9	1.20	9.20	-51.90	-13	38.90
QPSK, 5MHz, High Channel										
958.7	33.54	198	2	H	-63.0	1.36	0.0	-64.36	-13	51.36
958.7	33.61	72	2	V	-60.4	1.36	0.0	-61.76	-13	48.76
1427.00	45.83	112	1.1	H	-61.9	0.80	7.90	-54.80	-13	41.80
1427.00	46.94	259	1.5	V	-61.5	0.80	7.90	-54.40	-13	41.40
2140.50	51.26	310	1.2	H	-56.0	1.00	8.30	-48.70	-13	35.70
2140.50	51.72	124	1.8	V	-56.1	1.00	8.30	-48.80	-13	35.80
2854.00	46.31	236	1.3	H	-60.0	1.20	9.00	-52.20	-13	39.20
2854.00	47.05	36	2.1	V	-59.0	1.20	9.00	-51.20	-13	38.20
Band 66 (30MHz-20GHz)										
QPSK, 1.4MHz, Low Channel										
958.1	32.44	227	2	H	-64.1	1.36	0.0	-65.46	-13	52.46
958.1	32.63	239	1	V	-61.4	1.36	0.0	-62.76	-13	49.76
3421.40	50.98	130	1.0	H	-55.0	1.30	9.90	-46.40	-13	33.40
3421.40	51.82	33	1.6	V	-53.8	1.30	9.90	-45.20	-13	32.20
5132.10	51.06	224	2.4	H	-52.1	1.50	9.60	-44.00	-13	31.00
5132.10	52.25	244	1.8	V	-50.4	1.50	9.60	-42.30	-13	29.30
QPSK, 1.4MHz, Middle Channel										
955.9	32.53	338	2	H	-64.0	1.36	0.0	-65.36	-13	52.36
955.9	32.74	16	3	V	-61.3	1.36	0.0	-62.66	-13	49.66
3490.00	52.71	71	1.2	H	-53.2	1.30	10.50	-44.00	-13	31.00
3490.00	53.84	297	1.4	V	-51.8	1.30	10.50	-42.60	-13	29.60
5235.00	53.06	195	1.5	H	-50.0	1.60	9.70	-41.90	-13	28.90
5235.00	54.92	150	2.3	V	-47.7	1.60	9.70	-39.60	-13	26.60

QPSK, 1.4MHz, High Channel										
957.4	33.65	6	2	H	-62.9	1.36	0.0	-64.26	-13	51.26
957.4	33.73	268	2	V	-60.3	1.36	0.0	-61.66	-13	48.66
3558.60	51.38	284	2.3	H	-54.3	1.30	10.90	-44.70	-13	31.70
3558.60	52.74	312	1.8	V	-52.7	1.30	10.90	-43.10	-13	30.10
5337.90	52.15	300	1.4	H	-50.8	1.60	10.00	-42.40	-13	29.40
5337.90	53.57	187	1.0	V	-49.1	1.60	10.00	-40.70	-13	27.70

**Note:**

Absolute Level = Reading Level + Substituted Factor

Substituted Factor contains: Substituted Level - Cable loss+ Antenna Gain

Margin = Absolute Level - Limit



**FCC§ 22.917 (a); § 24.238 (a); §27.53 (a) (g) (h)(m)(n) - BAND EDGES****Applicable Standard**

According to § 22.917(a), the power of any emissions 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.

According to §24.238(a), the power of any emissions 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.

According to FCC §27.53 (a), For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

(4)For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than:  $43 + 10 \log(P)$  dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than  $55 + 10 \log(P)$  dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than  $61 + 10 \log(P)$  dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than  $67 + 10 \log(P)$  dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2300 and 2305 MHz,  $55 + 10 \log(P)$  dB on all frequencies between 2296 and 2300 MHz,  $61 + 10 \log(P)$  dB on all frequencies between 2292 and 2296 MHz,  $67 + 10 \log(P)$  dB on all frequencies between 2288 and 2292 MHz, and  $70 + 10 \log(P)$  dB below 2288 MHz;

(iii) By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2360 and 2365 MHz, and not less than  $70 + 10 \log(P)$  dB above 2365 MHz.

According to FCC §27.53 (g) , For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log(P)$  dB. Compliance 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.

According to FCC §27.53 (h), 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.

According to FCC §27.53 (m), For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log(P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log(P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log(P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that  $43 + 10 \log(P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log(P)$  dB at or below 2490.5MHz.

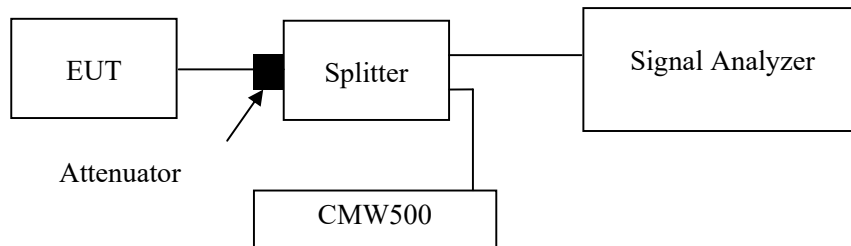
According to FCC §27.53(n)(2), For mobile operations in the 3450 – 3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed – 13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

**Test Procedure**

ANSI C63.26-2015 Section 5.7

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency



**Test Data**

**Environmental Conditions**

<b>Temperature:</b>	23.5~24.5 °C
<b>Relative Humidity:</b>	40~45 %
<b>ATM Pressure:</b>	101.0kPa

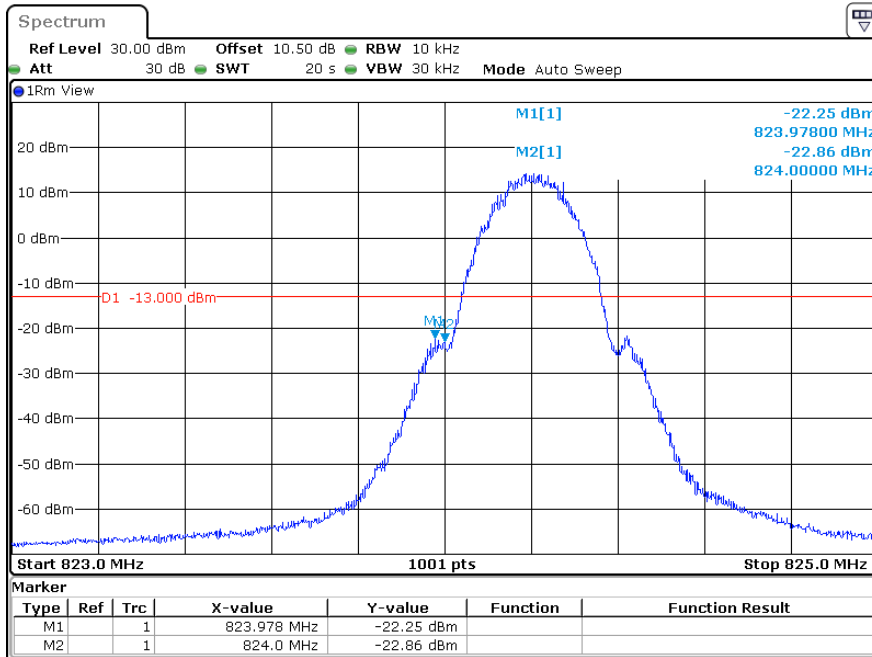
The testing was performed by Jim Cheng from 2024-01-26 to 2024-02-29 and Bamboo Zhan on 2024-03-01.

*EUT operation mode: Transmitting (Worst case)*

**Test Result: Compliant**

Please refer to the following plots.

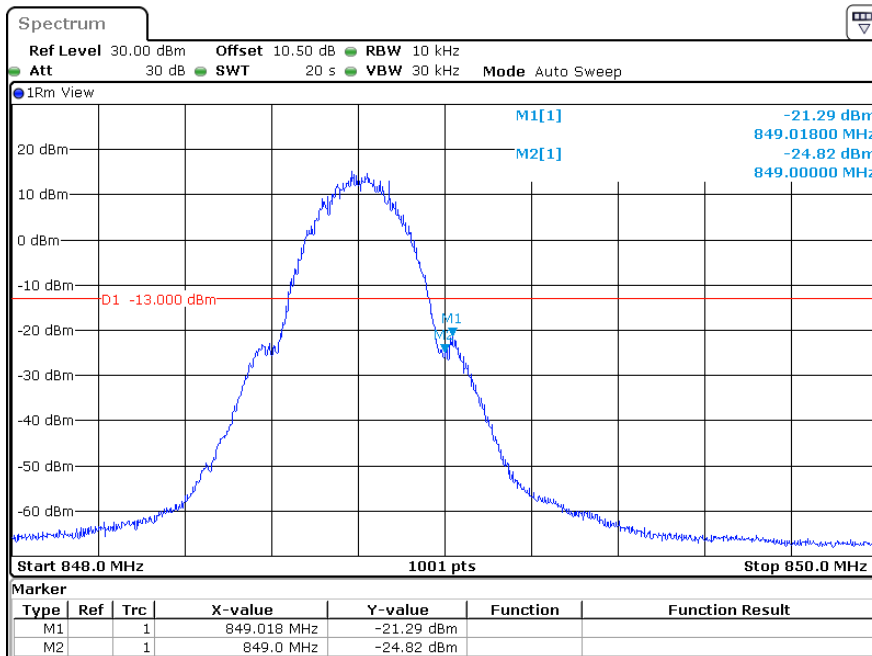
**Cellular Band, Left Band Edge for GSM (GMSK) Mode**



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng

Date: 29.FEB.2024 23:18:32

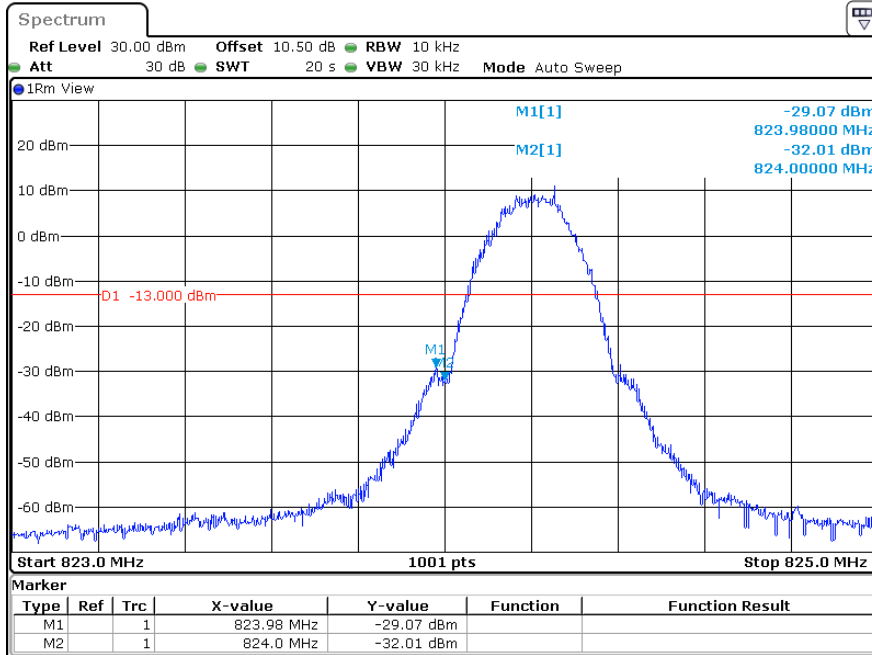
**Cellular Band, Right Band Edge for GSM (GMSK) Mode**



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng

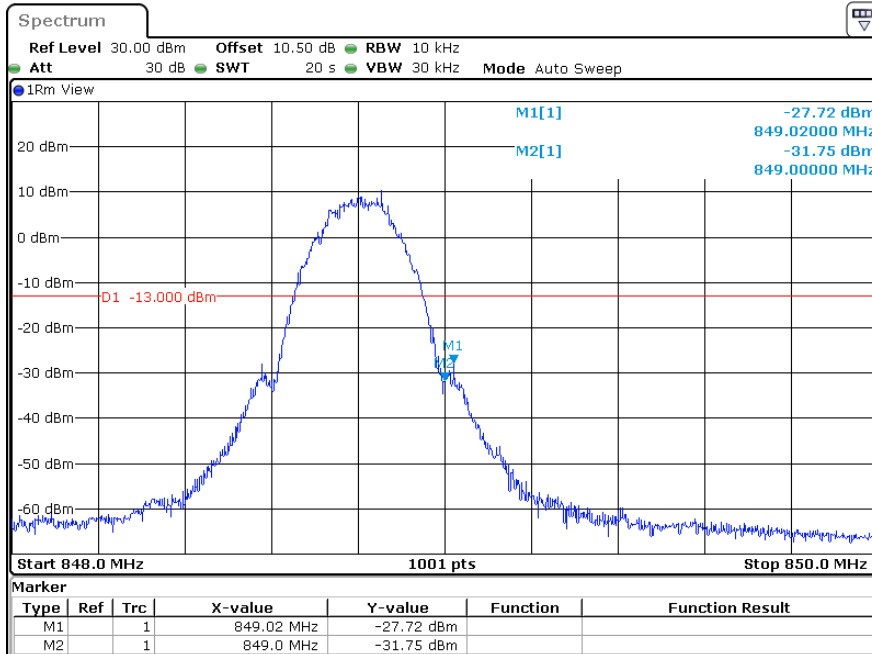
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**Cellular Band, Left Band Edge for EDGE(8PSK) Mode**



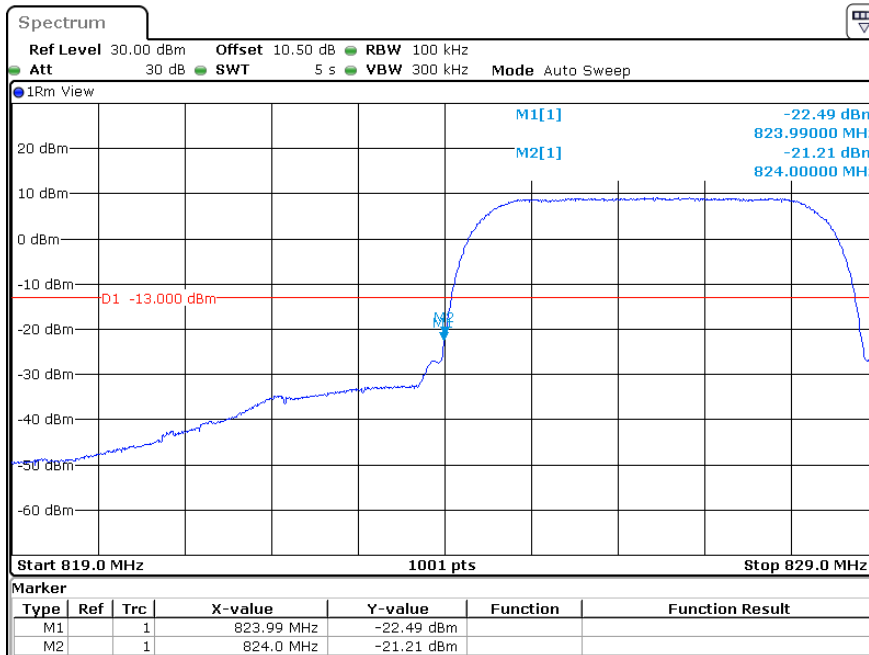
ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 22:38:25

**Cellular Band, Right Band Edge for EDGE(8PSK) Mode**



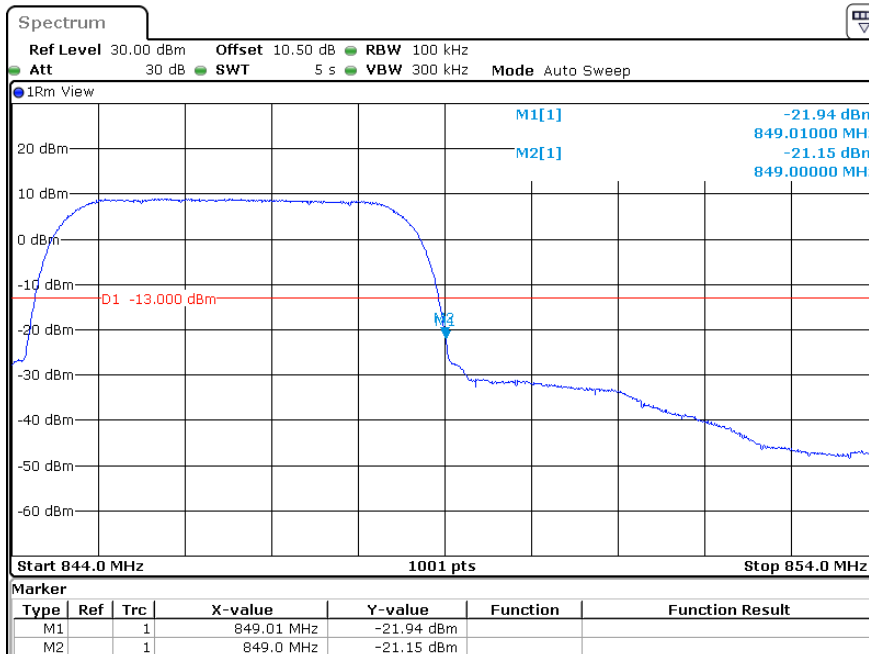
ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 22:53:01

**Cellular Band, Left Band Edge for RMC (BPSK) Mode**



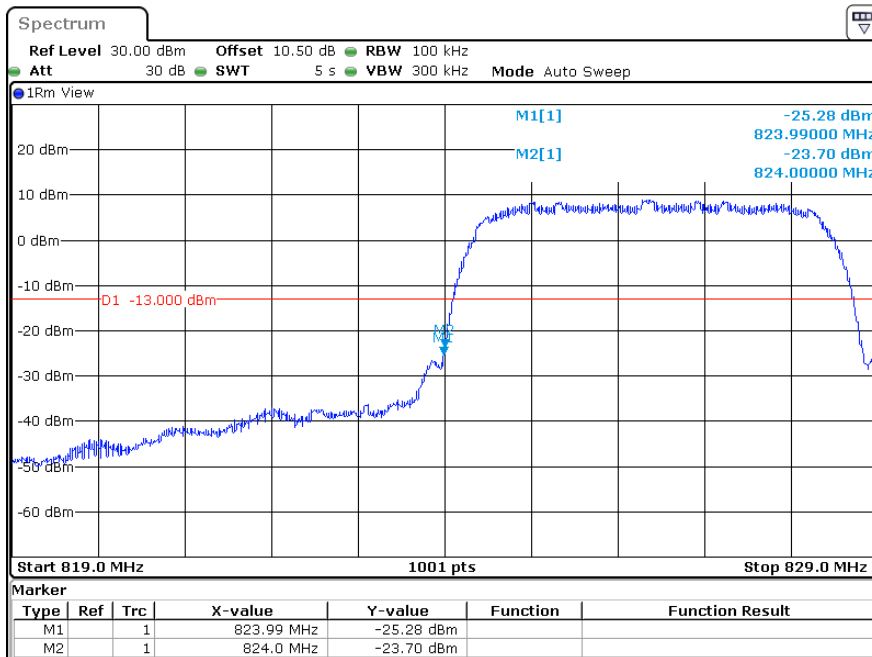
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:28:36

**Cellular Band, Right Band Edge for RMC (BPSK) Mode**



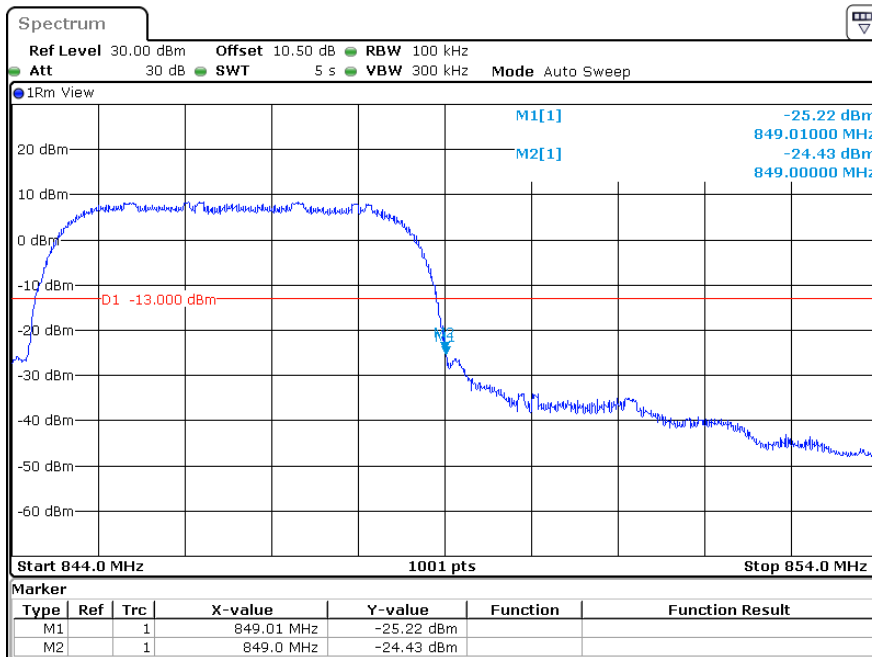
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 Date: 1.MAR.2024 19:32:42

### Cellular Band, Left Band Edge for HSDPA(16QAM) Mode



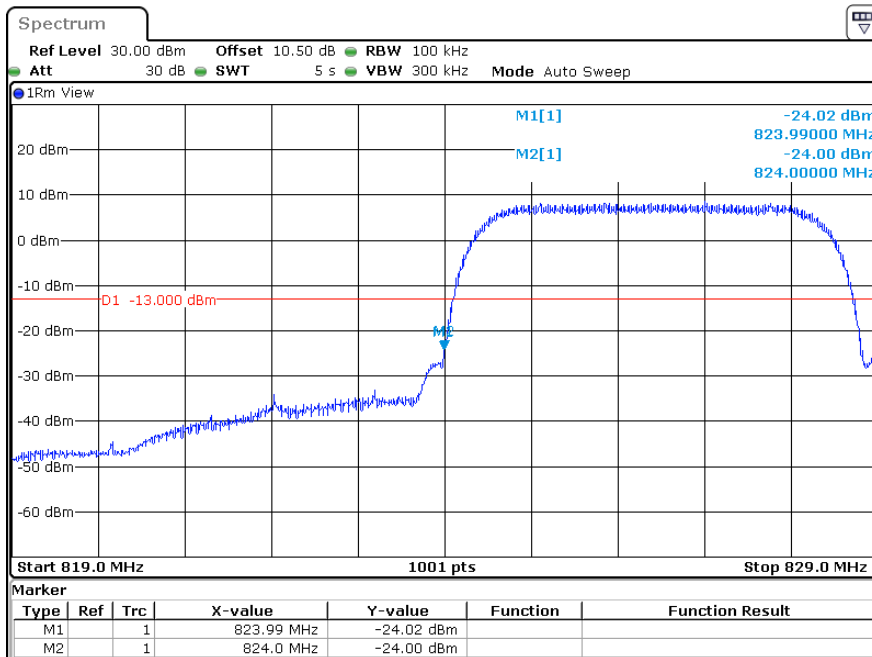
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 Date: 1.MAR.2024 20:06:40

### Cellular Band, Right Band Edge for HSDPA (16QAM) Mode



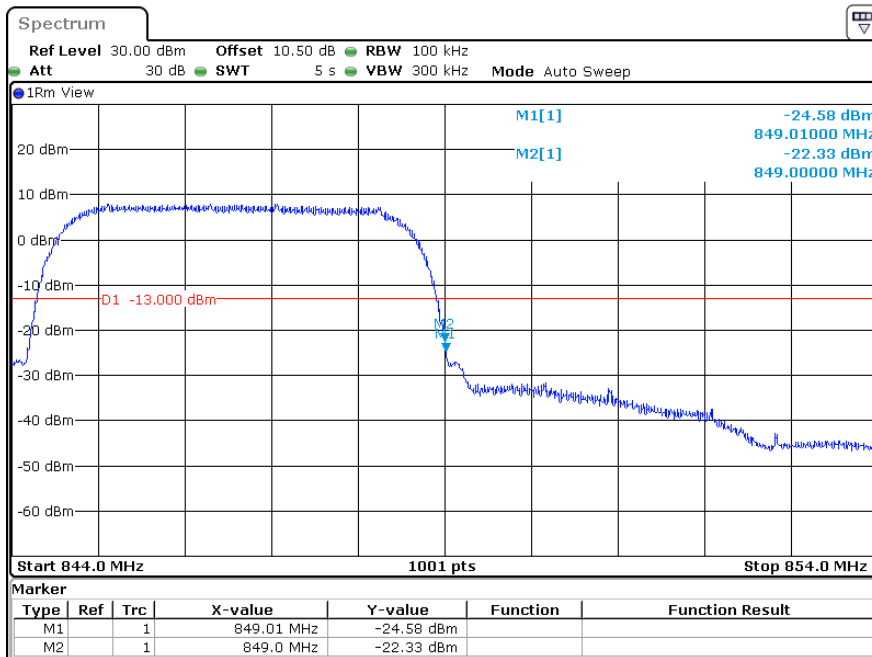
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 Date: 1.MAR.2024 19:58:37

### Cellular Band, Left Band Edge for HSUPA (QPSK) Mode



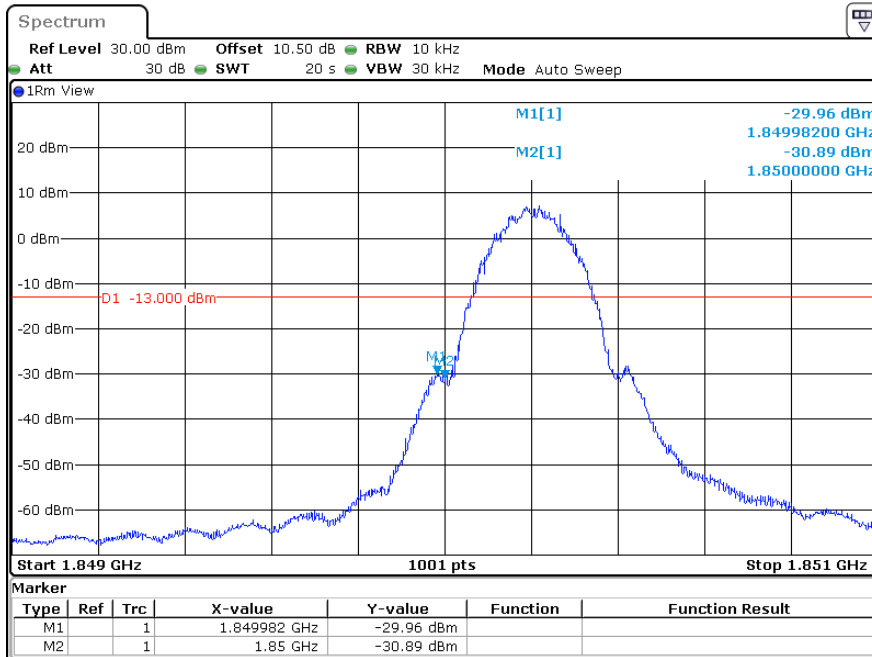
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 Date: 1.MAR.2024 20:16:44

### Cellular Band, Right Band Edge for HSUPA (QPSK) Mode



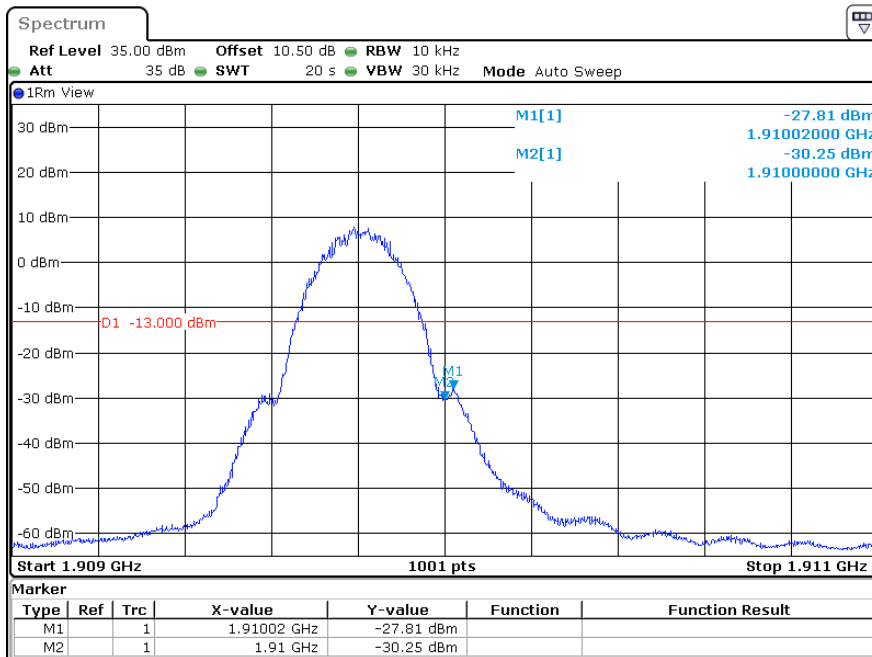
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 20:27:41

PCS Band, Left Band Edge for GSM (GMSK) Mode



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 22:17:15

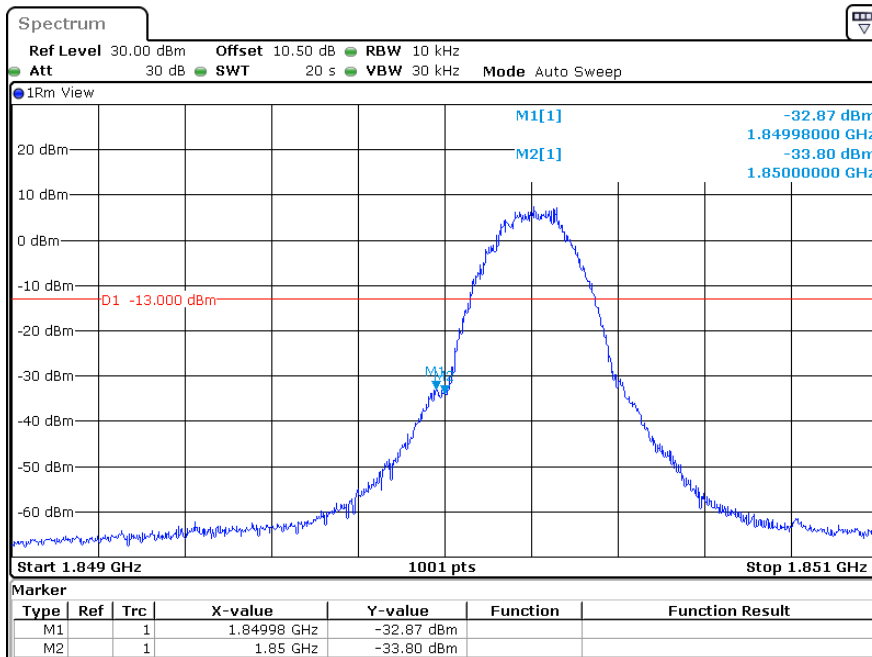
PCS Band, Right Band Edge for GSM (GMSK) Mode



ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 22:09:16

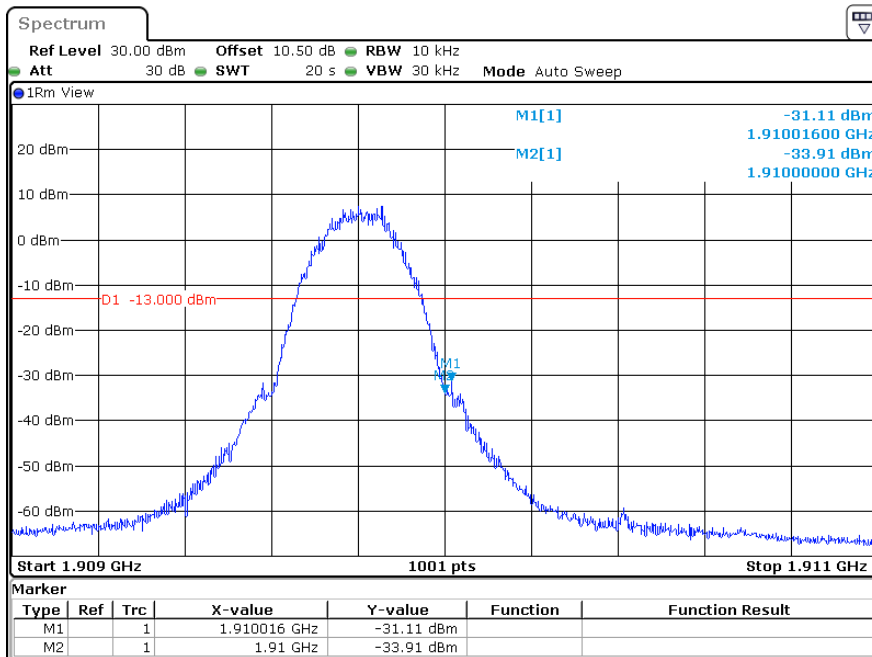


PCS Band, Left Band Edge for EDGE(8PSK) Mode



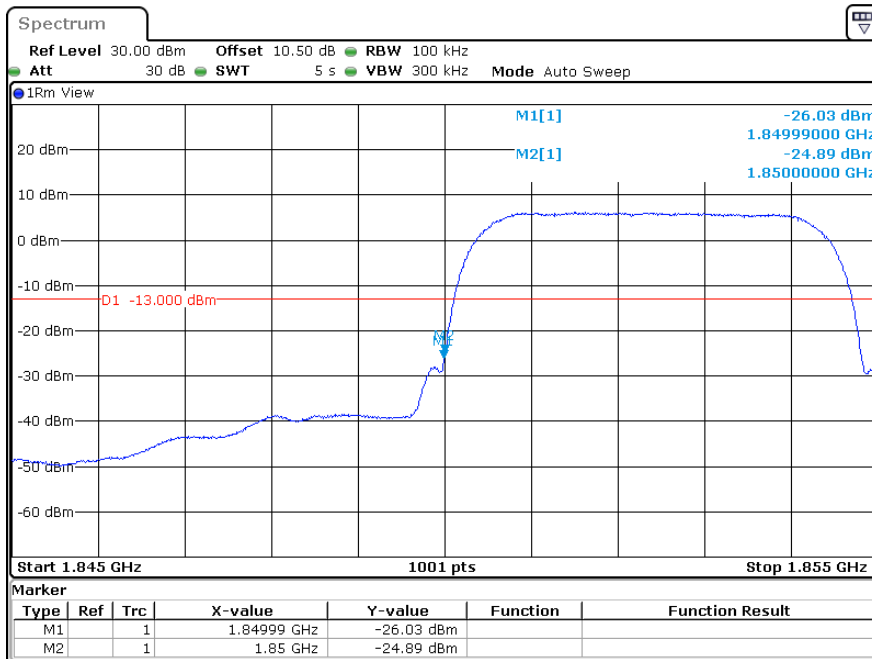
ProjectNo.:SZ1231211-74617E Tester:Jim Cheng  
 Date: 29.FEB.2024 21:21:03

PCS Band, Right Band Edge for EDGE(8PSK) Mode



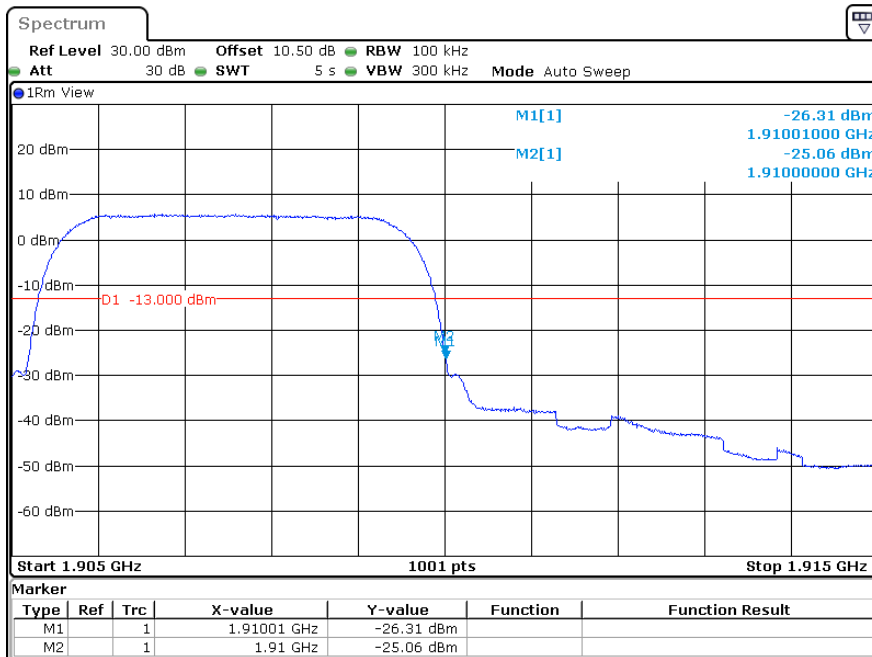
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**PCS Band, Left Band Edge for RMC (BPSK) Mode**



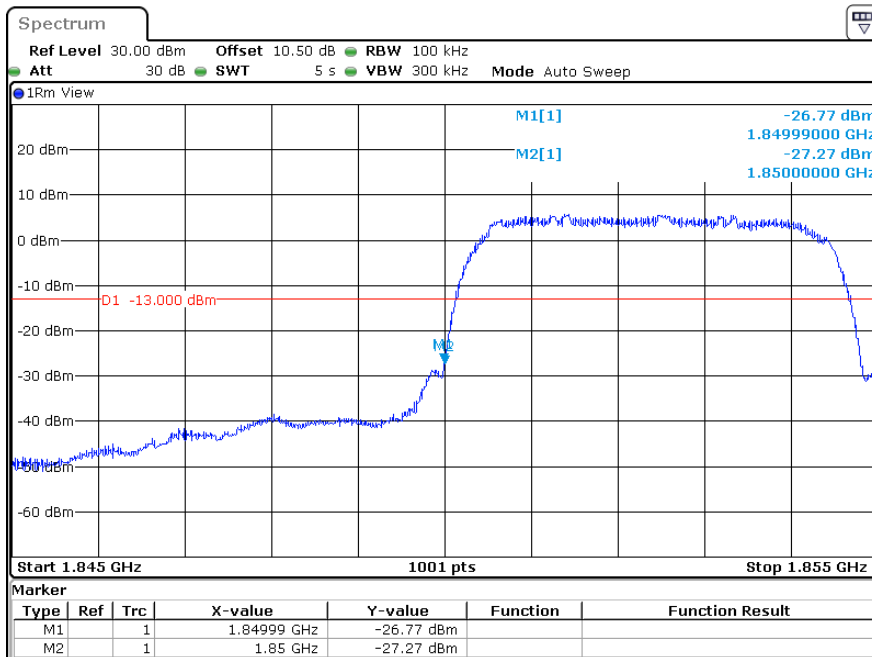
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 Date: 1.MAR.2024 16:40:11

**PCS Band, Right Band Edge for RMC (BPSK) Mode**



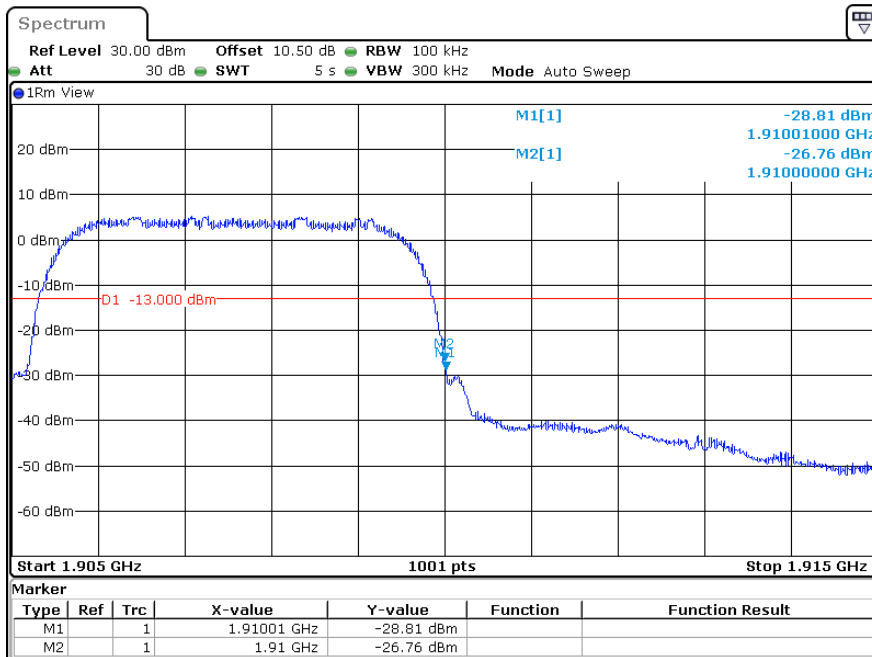
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**PCS Band, Left Band Edge for HSDPA(16QAM) Mode**



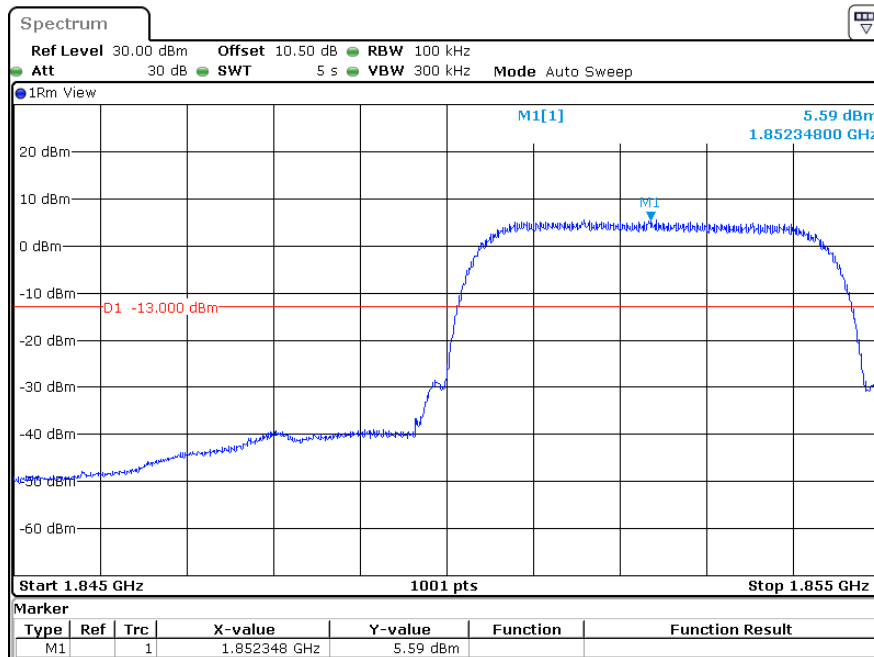
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 Date: 1.MAR.2024 17:15:19

**PCS Band, Right Band Edge for HSDPA (16QAM) Mode**



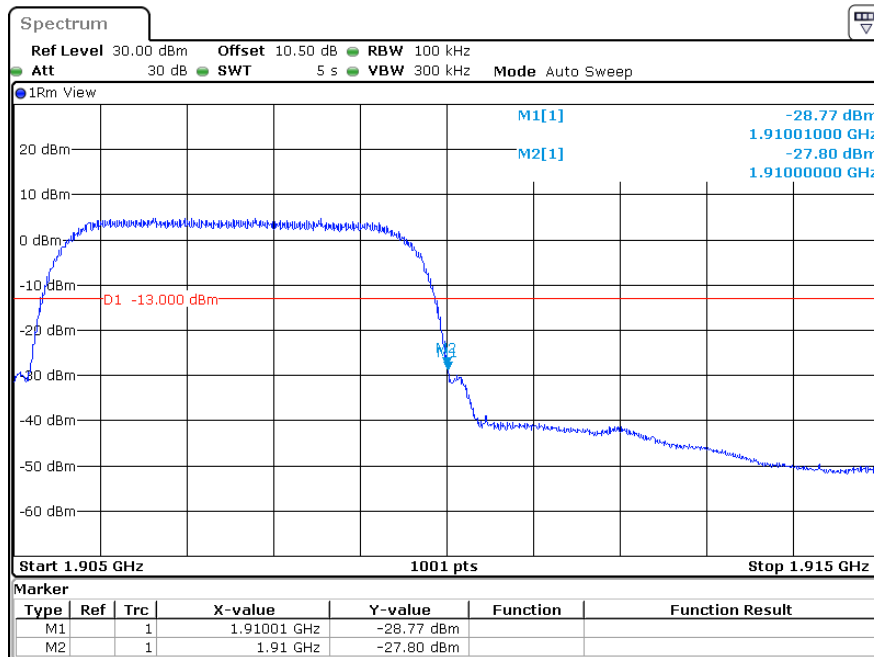
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**PCS Band, Left Band Edge for HSUPA (QPSK) Mode**



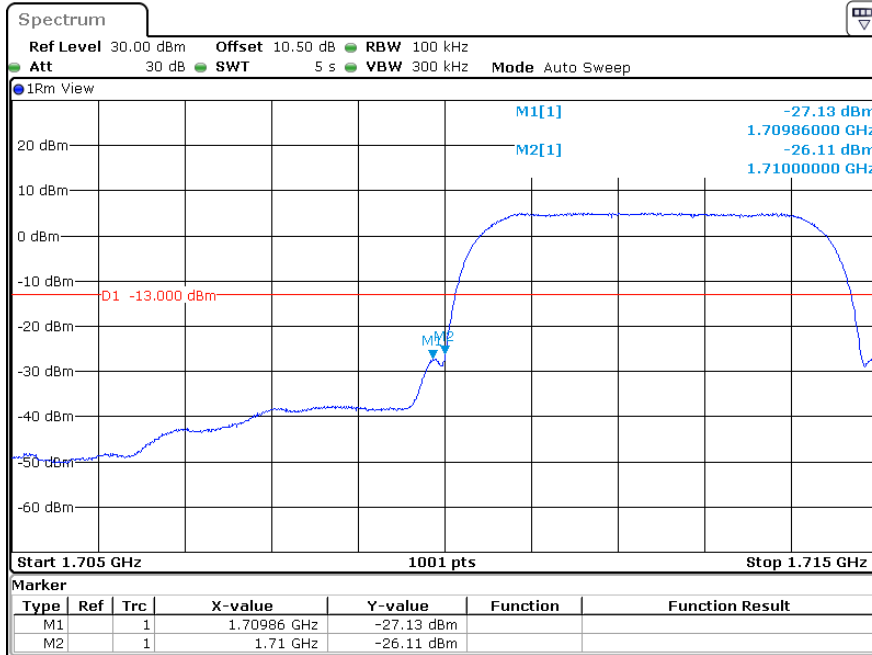
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**PCS Band, Right Band Edge for HSUPA (QPSK) Mode**



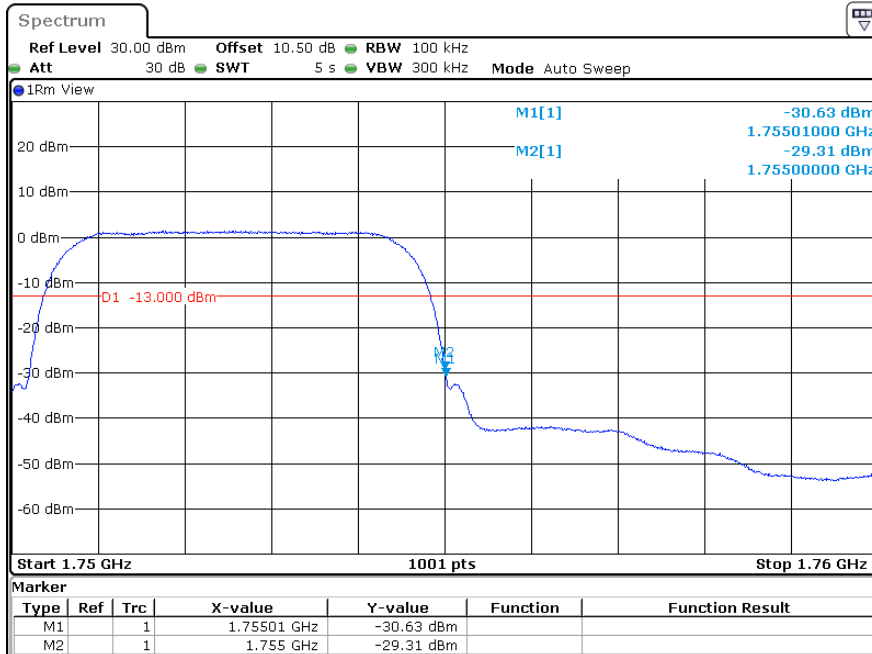
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**AWS Band, Left Band Edge for RMC (BPSK) Mode**



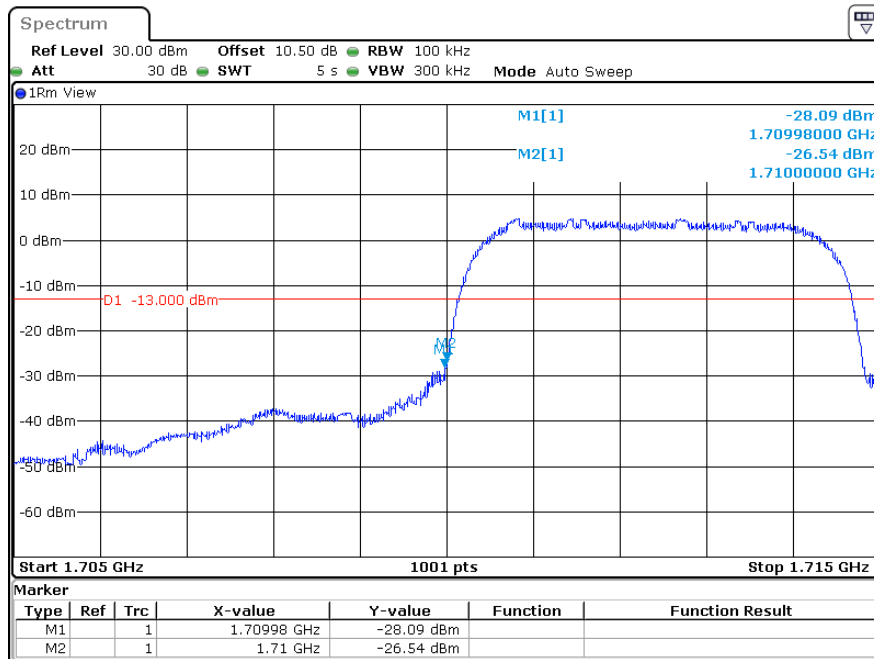
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 Date: 1.MAR.2024 19:18:10

**AWS Band, Right Band Edge for RMC (BPSK) Mode**



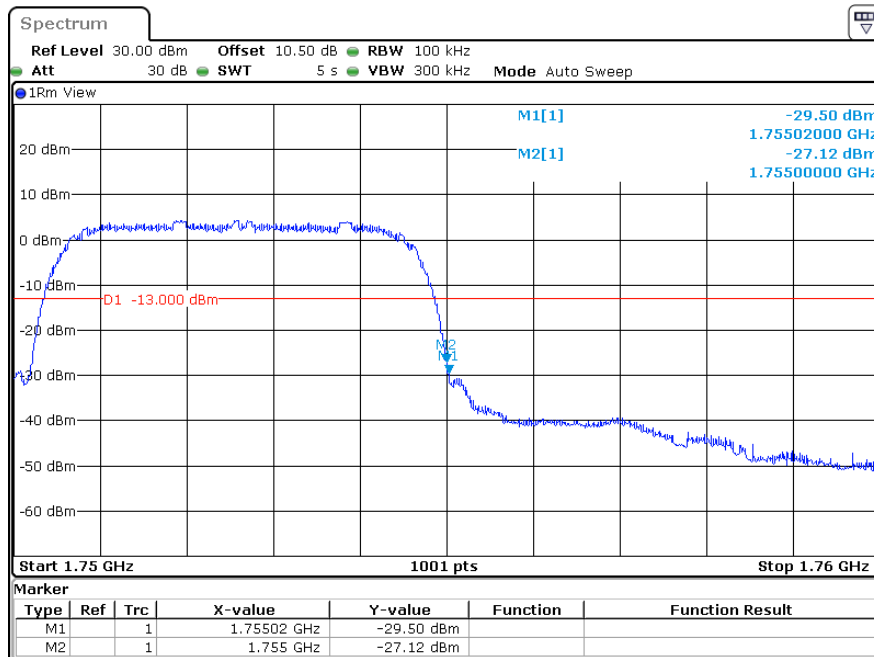
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 19:11:43

### AWS Band, Left Band Edge for HSDPA(16QAM) Mode



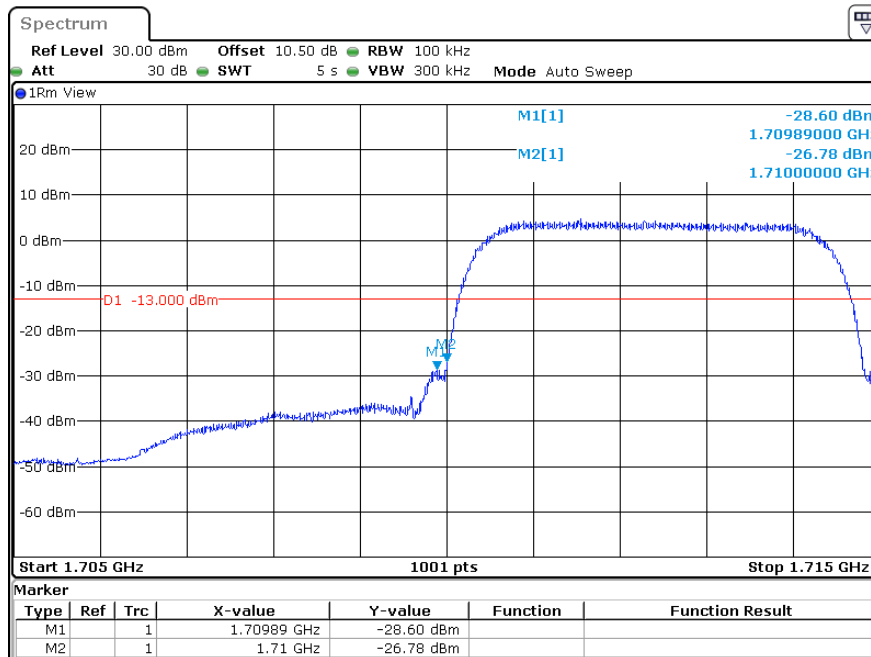
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 18:52:52

### AWS Band, Right Band Edge for HSDPA (16QAM) Mode



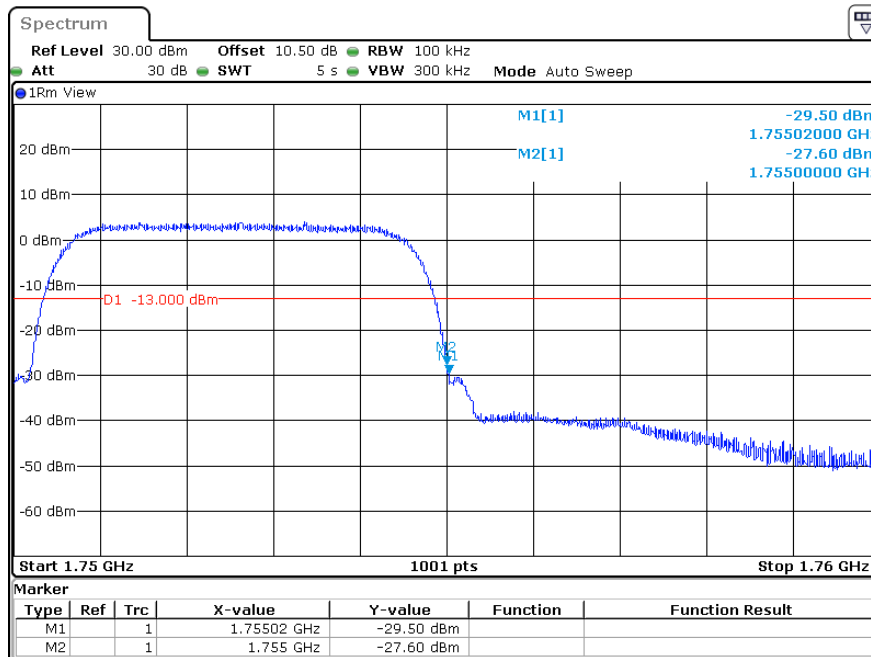
ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 18:59:07

### AWS Band, Left Band Edge for HSUPA (QPSK) Mode



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 17:59:40

### AWS Band, Right Band Edge for HSUPA (QPSK) Mode



ProjectNo.:SZ1231211-74617E Tester:Bamboo Zhan  
 Date: 1.MAR.2024 18:05:50

The test plots of LTE bands please refer to the Appendix C1 & Appendix C2.

**FCC § 2.1055; § 22.355; § 24.235; §27.54 - FREQUENCY STABILITY**

**Applicable Standard**

FCC § 2.1055, §22.355, §24.235&§27.54.

According to FCC §2.1055, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile > 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

According to §24.235&§27.54, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

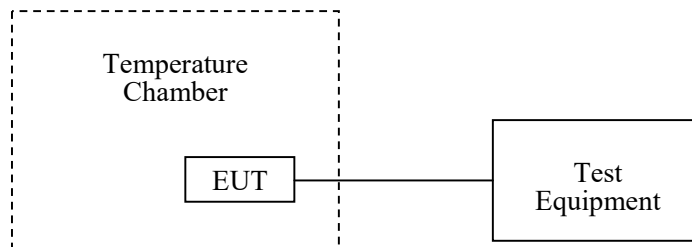
**Test Procedure**

ANSI C63.26-2015 Section 5.6

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: For hand carried, battery powered equipment; reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.





**Test Data****Environmental Conditions**

<b>Temperature:</b>	23.5~24.5 °C
<b>Relative Humidity:</b>	40~45 %
<b>ATM Pressure:</b>	101.0kPa

*The testing was performed by Jim Cheng from 2024-01-29 to 2024-02-29.*

*EUT operation mode: Transmitting*

***Test Result: Compliant***

*Please refer to the following tables.*

**Cellular Band (Part 22H)**

**GSM Mode**

Test Modulation:	GMSK		Test Channel	836.6	MHz
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.45	5	0.006	2.5
	-20	3.45	9	0.011	2.5
	-10	3.45	-10	-0.012	2.5
	0	3.45	8	0.010	2.5
	10	3.45	7	0.008	2.5
	20	3.45	-9	-0.011	2.5
	30	3.45	2	0.002	2.5
	40	3.45	8	0.010	2.5
	50	3.45	11	0.013	2.5
Frequency Stability vs. Voltage	20	3.91	-6	-0.007	2.5
	20	4.45	8	0.010	2.5

Test Modulation:	8PSK		Test Channel	836.6	MHz
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.45	3	0.004	2.5
	-20	3.45	-5	-0.006	2.5
	-10	3.45	7	0.008	2.5
	0	3.45	11	0.013	2.5
	10	3.45	-2	-0.002	2.5
	20	3.45	2	0.002	2.5
	30	3.45	9	0.011	2.5
	40	3.45	-3	-0.004	2.5
	50	3.45	-4	-0.005	2.5
Frequency Stability vs. Voltage	20	3.91	3	0.004	2.5
	20	4.45	6	0.007	2.5

**WCDMA Mode**

<b>Test Modulation:</b>	<b>WCDMA R99</b>		<b>Test Channel:</b>	<b>836.6</b>	<b>MHz</b>
<b>Test Item</b>	<b>Temperature (°C)</b>	<b>Voltage (V<sub>DC</sub>)</b>	<b>Frequency Error</b>		<b>Limit</b>
			<b>(Hz)</b>	<b>(ppm)</b>	<b>(ppm)</b>
Frequency Stability vs. Temperature	-30	3.45	2	0.002	2.5
	-20	3.45	-3	-0.004	2.5
	-10	3.45	-6	-0.007	2.5
	0	3.45	4	0.005	2.5
	10	3.45	8	0.010	2.5
	20	3.45	-11	-0.013	2.5
	30	3.45	-2	-0.002	2.5
	40	3.45	5	0.006	2.5
	50	3.45	7	0.008	2.5
Frequency Stability vs. Voltage	20	3.91	-9	-0.011	2.5
	20	4.45	3	0.004	2.5

**PCS Band (Part 24E)**

**GSM Mode**

Test Mode:	GMSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.45	1850.14558	1850.00000	1909.84429	1910.00000
	-20	3.45	1850.07064	1850.00000	1909.95442	1910.00000
	-10	3.45	1850.05643	1850.00000	1909.88116	1910.00000
	0	3.45	1850.00479	1850.00000	1909.83746	1910.00000
	10	3.45	1850.05876	1850.00000	1909.86403	1910.00000
	20	3.45	1850.14710	1850.00000	1909.99678	1910.00000
	30	3.45	1850.14626	1850.00000	1909.81277	1910.00000
	40	3.45	1850.10919	1850.00000	1909.80307	1910.00000
	50	3.45	1850.16909	1850.00000	1909.84902	1910.00000
Frequency Stability vs. Voltage	20	3.91	1850.14013	1850.00000	1909.84990	1910.00000
	20	4.45	1850.10561	1850.00000	1909.83459	1910.00000

Test Mode:	8PSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.45	1850.17715	1850.00000	1909.81395	1910.00000
	-20	3.45	1850.00856	1850.00000	1909.84869	1910.00000
	-10	3.45	1850.06981	1850.00000	1909.91541	1910.00000
	0	3.45	1850.08906	1850.00000	1909.98684	1910.00000
	10	3.45	1850.16493	1850.00000	1909.93191	1910.00000
	20	3.45	1850.15173	1850.00000	1909.83665	1910.00000
	30	3.45	1850.16453	1850.00000	1909.80281	1910.00000
	40	3.45	1850.13077	1850.00000	1909.86701	1910.00000
	50	3.45	1850.12067	1850.00000	1909.94134	1910.00000
Frequency Stability vs. Voltage	20	3.91	1850.09184	1850.00000	1909.85002	1910.00000
	20	4.45	1850.07108	1850.00000	1909.93011	1910.00000

**WCDMA Mode**

Test Mode:	WCDMA R99	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.45	1850.19857	1850.00000	1909.99391	1910.00000
	-20	3.45	1850.19563	1850.00000	1909.85474	1910.00000
	-10	3.45	1850.09843	1850.00000	1909.91111	1910.00000
	0	3.45	1850.07544	1850.00000	1909.83688	1910.00000
	10	3.45	1850.11907	1850.00000	1909.95798	1910.00000
	20	3.45	1850.16935	1850.00000	1909.83167	1910.00000
	30	3.45	1850.12470	1850.00000	1909.91411	1910.00000
	40	3.45	1850.11956	1850.00000	1909.82881	1910.00000
	50	3.45	1850.14449	1850.00000	1909.85640	1910.00000
Frequency Stability vs. Voltage	20	3.91	1850.10288	1850.00000	1909.99573	1910.00000
	20	4.45	1850.05165	1850.00000	1909.84961	1910.00000

**AWS Band**

**WCDMA B4**

Test Mode:	WCDMA R99	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.45	1710.17950	1710.00000	1754.97589	1755.00000
	-20	3.45	1710.08061	1710.00000	1754.98105	1755.00000
	-10	3.45	1710.10139	1710.00000	1754.94108	1755.00000
	0	3.45	1710.08430	1710.00000	1754.97202	1755.00000
	10	3.45	1710.16215	1710.00000	1754.86786	1755.00000
	20	3.45	1710.10879	1710.00000	1754.86712	1755.00000
	30	3.45	1710.15981	1710.00000	1754.94739	1755.00000
	40	3.45	1710.19810	1710.00000	1754.83438	1755.00000
	50	3.45	1710.01099	1710.00000	1754.80569	1755.00000
Frequency Stability vs. Voltage	20	3.91	1710.13010	1710.00000	1754.82077	1755.00000
	20	4.45	1710.01728	1710.00000	1754.92127	1755.00000

**LTE**

**Band 2**

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.45	1850.17272	1850.00000	1909.84183	1910.00000
	-20	3.45	1850.11840	1850.00000	1909.96827	1910.00000
	-10	3.45	1850.17609	1850.00000	1909.86437	1910.00000
	0	3.45	1850.03990	1850.00000	1909.85972	1910.00000
	10	3.45	1850.08439	1850.00000	1909.89432	1910.00000
	20	3.45	1850.08874	1850.00000	1909.80608	1910.00000
	30	3.45	1850.13390	1850.00000	1909.98957	1910.00000
	40	3.45	1850.18371	1850.00000	1909.90295	1910.00000
	50	3.45	1850.14520	1850.00000	1909.85548	1910.00000
Frequency Stability vs. Voltage	20	3.91	1850.11128	1850.00000	1909.99850	1910.00000
	20	4.45	1850.17530	1850.00000	1909.83926	1910.00000
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.45	1850.16240	1850.00000	1909.90530	1910.00000
	-20	3.45	1850.01392	1850.00000	1909.87168	1910.00000
	-10	3.45	1850.12980	1850.00000	1909.94776	1910.00000
	0	3.45	1850.15839	1850.00000	1909.85237	1910.00000
	10	3.45	1850.04049	1850.00000	1909.81221	1910.00000
	20	3.45	1850.02140	1850.00000	1909.94394	1910.00000
	30	3.45	1850.00855	1850.00000	1909.99076	1910.00000
	40	3.45	1850.08531	1850.00000	1909.91109	1910.00000
	50	3.45	1850.18337	1850.00000	1909.86416	1910.00000
Frequency Stability vs. Voltage	20	3.91	1850.18785	1850.00000	1909.82769	1910.00000
	20	4.45	1850.05759	1850.00000	1909.82448	1910.00000

**Band 4**

<b>Test Mode:</b>	<b>20M QPSK</b>	<b>Test Channel: Lowest for Lower Edge, Highest for Upper Edge</b>				
<b>Test Item</b>	<b>Temperature (°C)</b>	<b>Voltage (V<sub>DC</sub>)</b>	<b>Lower Edge (MHz)</b>		<b>Upper Edge (MHz)</b>	
			<b>Result</b>	<b>Limit</b>	<b>Result</b>	<b>Limit</b>
Frequency Stability vs. Temperature	-30	3.45	1710.12259	1710.00000	1754.87058	1755.00000
	-20	3.45	1710.18048	1710.00000	1754.84673	1755.00000
	-10	3.45	1710.18035	1710.00000	1754.83488	1755.00000
	0	3.45	1710.02327	1710.00000	1754.87841	1755.00000
	10	3.45	1710.07590	1710.00000	1754.83121	1755.00000
	20	3.45	1710.16058	1710.00000	1754.93428	1755.00000
	30	3.45	1710.16973	1710.00000	1754.88799	1755.00000
	40	3.45	1710.19362	1710.00000	1754.80593	1755.00000
	50	3.45	1710.06127	1710.00000	1754.95493	1755.00000
Frequency Stability vs. Voltage	20	3.91	1710.14568	1710.00000	1754.96574	1755.00000
	20	4.45	1710.13617	1710.00000	1754.99844	1755.00000
<b>Test Mode:</b>	<b>20M 16QAM</b>	<b>Test Channel: Lowest for Lower Edge, Highest for Upper Edge</b>				
<b>Test Item</b>	<b>Temperature (°C)</b>	<b>Voltage (VDC)</b>	<b>Lower Edge (MHz)</b>		<b>Upper Edge (MHz)</b>	
			<b>Result</b>	<b>Limit</b>	<b>Result</b>	<b>Limit</b>
Frequency Stability vs. Temperature	-30	3.45	1710.13448	1710.00000	1754.85834	1755.00000
	-20	3.45	1710.14966	1710.00000	1754.82585	1755.00000
	-10	3.45	1710.18514	1710.00000	1754.83119	1755.00000
	0	3.45	1710.14801	1710.00000	1754.98751	1755.00000
	10	3.45	1710.10636	1710.00000	1754.92236	1755.00000
	20	3.45	1710.13325	1710.00000	1754.96087	1755.00000
	30	3.45	1710.10946	1710.00000	1754.92811	1755.00000
	40	3.45	1710.13358	1710.00000	1754.91410	1755.00000
	50	3.45	1710.11063	1710.00000	1754.81267	1755.00000
Frequency Stability vs. Voltage	20	3.91	1710.13224	1710.00000	1754.98191	1755.00000
	20	4.45	1710.06428	1710.00000	1754.84396	1755.00000

**Band 5**

<b>Test Modulation:</b>	<b>10 MHz QPSK</b>		<b>Test Channel:</b>	<b>836.5</b>	<b>MHz</b>
<b>Test Item</b>	<b>Temperature (°C)</b>	<b>Voltage (V<sub>DC</sub>)</b>	<b>Frequency Error</b>		<b>Limit</b>
			<b>(Hz)</b>	<b>(ppm)</b>	<b>(ppm)</b>
Frequency Stability vs. Temperature	-30	3.45	-1.46	-0.002	2.5
	-20	3.45	-2.95	-0.004	2.5
	-10	3.45	-3.28	-0.004	2.5
	0	3.45	-1.37	-0.002	2.5
	10	3.45	1.78	0.002	2.5
	20	3.45	-5.87	-0.007	2.5
	30	3.45	0.76	0.001	2.5
	40	3.45	-1.71	-0.002	2.5
	50	3.45	-0.49	-0.001	2.5
Frequency Stability vs. Voltage	20	3.91	-2.35	-0.003	2.5
	20	4.45	-6.12	-0.007	2.5
<b>Test Modulation:</b>	<b>10 MHz 16QAM</b>		<b>Test Channel:</b>	<b>836.5</b>	<b>MHz</b>
<b>Test Item</b>	<b>Temperature (°C)</b>	<b>Voltage (V<sub>DC</sub>)</b>	<b>Frequency Error</b>		<b>Limit</b>
			<b>(Hz)</b>	<b>(ppm)</b>	<b>(ppm)</b>
Frequency Stability vs. Temperature	-30	3.45	2.60	0.003	2.5
	-20	3.45	-0.82	-0.001	2.5
	-10	3.45	-3.15	-0.004	2.5
	0	3.45	-4.18	-0.005	2.5
	10	3.45	-3.90	-0.005	2.5
	20	3.45	-4.25	-0.005	2.5
	30	3.45	-4.56	-0.005	2.5
	40	3.45	-5.00	-0.006	2.5
	50	3.45	-4.18	-0.005	2.5
Frequency Stability vs. Voltage	20	3.91	1.82	0.002	2.5
	20	4.45	-5.95	-0.007	2.5



**Band 7**

<b>Test Mode:</b>	<b>20M QPSK</b>	<b>Test Channel: Lowest for Lower Edge, Highest for Upper Edge</b>				
<b>Test Item</b>	<b>Temperature (°C)</b>	<b>Voltage (V<sub>DC</sub>)</b>	<b>Lower Edge (MHz)</b>		<b>Upper Edge (MHz)</b>	
			<b>Result</b>	<b>Limit</b>	<b>Result</b>	<b>Limit</b>
Frequency Stability vs. Temperature	-30	3.45	2500.11376	2500.00000	2569.98947	2570.00000
	-20	3.45	2500.01790	2500.00000	2569.86065	2570.00000
	-10	3.45	2500.13375	2500.00000	2569.87810	2570.00000
	0	3.45	2500.07955	2500.00000	2569.98556	2570.00000
	10	3.45	2500.04860	2500.00000	2569.87685	2570.00000
	20	3.45	2500.07113	2500.00000	2569.86253	2570.00000
	30	3.45	2500.14147	2500.00000	2569.98284	2570.00000
	40	3.45	2500.12395	2500.00000	2569.84045	2570.00000
Frequency Stability vs. Voltage	20	3.91	2500.09843	2500.00000	2569.82564	2570.00000
	20	4.45	2500.19024	2500.00000	2569.99442	2570.00000
<b>Test Mode:</b>	<b>20M 16QAM</b>	<b>Test Channel: Lowest for Lower Edge, Highest for Upper Edge</b>				
<b>Test Item</b>	<b>Temperature (°C)</b>	<b>Voltage (V<sub>DC</sub>)</b>	<b>Lower Edge (MHz)</b>		<b>Upper Edge (MHz)</b>	
			<b>Result</b>	<b>Limit</b>	<b>Result</b>	<b>Limit</b>
Frequency Stability vs. Temperature	-30	3.45	2500.13613	2500.00000	2569.83866	2570.00000
	-20	3.45	2500.10602	2500.00000	2569.81857	2570.00000
	-10	3.45	2500.07854	2500.00000	2569.93671	2570.00000
	0	3.45	2500.04361	2500.00000	2569.82309	2570.00000
	10	3.45	2500.16527	2500.00000	2569.83485	2570.00000
	20	3.45	2500.11299	2500.00000	2569.92521	2570.00000
	30	3.45	2500.08204	2500.00000	2569.93750	2570.00000
	40	3.45	2500.02723	2500.00000	2569.83832	2570.00000
Frequency Stability vs. Voltage	20	3.91	2500.01133	2500.00000	2569.88059	2570.00000
	20	4.45	2500.09926	2500.00000	2569.96991	2570.00000

**Band 12**

Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.45	699.051	699.00	715.916	716.00
	-20	3.45	699.064	699.00	715.905	716.00
	-10	3.45	699.136	699.00	715.866	716.00
	0	3.45	699.114	699.00	715.838	716.00
	10	3.45	699.091	699.00	715.993	716.00
	20	3.45	699.123	699.00	715.986	716.00
	30	3.45	699.128	699.00	715.834	716.00
	40	3.45	699.045	699.00	715.806	716.00
	50	3.45	699.007	699.00	715.821	716.00
Frequency Stability vs. Voltage	20	3.91	699.090	699.00	715.891	716.00
	20	4.45	699.146	699.00	715.829	716.00
Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.45	699.003	699.00	715.880	716.00
	-20	3.45	699.053	699.00	715.847	716.00
	-10	3.45	699.052	699.00	715.987	716.00
	0	3.45	699.180	699.00	715.963	716.00
	10	3.45	699.141	699.00	715.870	716.00
	20	3.45	699.027	699.00	715.965	716.00
	30	3.45	699.199	699.00	715.848	716.00
	40	3.45	699.117	699.00	715.807	716.00
	50	3.45	699.090	699.00	715.900	716.00
Frequency Stability vs. Voltage	20	3.91	699.156	699.00	715.964	716.00
	20	4.45	699.149	699.00	715.808	716.00

**Band 17**

Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.45	704.06	704.00	715.93	716.00
	-20	3.45	704.01	704.00	715.89	716.00
	-10	3.45	704.12	704.00	715.81	716.00
	0	3.45	704.15	704.00	715.86	716.00
	10	3.45	704.05	704.00	715.88	716.00
	20	3.45	704.00	704.00	715.82	716.00
	30	3.45	704.04	704.00	715.98	716.00
	40	3.45	704.03	704.00	715.98	716.00
	50	3.45	704.08	704.00	715.90	716.00
Frequency Stability vs. Voltage	20	3.91	704.03	704.00	715.89	716.00
	20	4.45	704.11	704.00	715.81	716.00
Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.45	704.13	704.00	715.99	716.00
	-20	3.45	704.02	704.00	715.86	716.00
	-10	3.45	704.16	704.00	715.81	716.00
	0	3.45	704.16	704.00	715.84	716.00
	10	3.45	704.15	704.00	715.98	716.00
	20	3.45	704.17	704.00	715.97	716.00
	30	3.45	704.18	704.00	715.96	716.00
	40	3.45	704.00	704.00	715.81	716.00
	50	3.45	704.05	704.00	715.98	716.00
Frequency Stability vs. Voltage	20	3.91	704.03	704.00	715.99	716.00
	20	4.45	704.08	704.00	715.96	716.00

**Band 38**

<b>Test Mode:</b>		<b>20M QPSK</b>				
<b>Test Item</b>	<b>Temperature (°C)</b>	<b>Voltage (V<sub>DC</sub>)</b>	<b>Test Channel: Lowest for Lower Edge, Highest for Upper Edge</b>			
			<b>Lower Edge (MHz)</b>		<b>Upper Edge (MHz)</b>	
			<b>Result</b>	<b>Limit</b>	<b>Result</b>	<b>Limit</b>
Frequency Stability vs. Temperature	-30	3.45	2570.01644	2570.00000	2619.98620	2620.00000
	-20	3.45	2570.03500	2570.00000	2619.81826	2620.00000
	-10	3.45	2570.08529	2570.00000	2619.93413	2620.00000
	0	3.45	2570.05269	2570.00000	2619.99842	2620.00000
	10	3.45	2570.03743	2570.00000	2619.83111	2620.00000
	20	3.45	2570.12360	2570.00000	2619.81907	2620.00000
	30	3.45	2570.09929	2570.00000	2619.95106	2620.00000
	40	3.45	2570.17800	2570.00000	2619.80057	2620.00000
	50	3.45	2570.13772	2570.00000	2619.97324	2620.00000
Frequency Stability vs. Voltage	20	3.91	2570.02582	2570.00000	2619.84091	2620.00000
	20	4.45	2570.09423	2570.00000	2619.98568	2620.00000
<b>Test Mode:</b>		<b>20M 16QAM</b>				
<b>Test Item</b>	<b>Temperature (°C)</b>	<b>Voltage (V<sub>DC</sub>)</b>	<b>Test Channel: Lowest for Lower Edge, Highest for Upper Edge</b>			
			<b>Lower Edge (MHz)</b>		<b>Upper Edge (MHz)</b>	
			<b>Result</b>	<b>Limit</b>	<b>Result</b>	<b>Limit</b>
Frequency Stability vs. Temperature	-30	3.45	2570.14925	2570.00000	2619.96284	2620.00000
	-20	3.45	2570.18564	2570.00000	2619.86066	2620.00000
	-10	3.45	2570.01959	2570.00000	2619.98532	2620.00000
	0	3.45	2570.10198	2570.00000	2619.96397	2620.00000
	10	3.45	2570.12849	2570.00000	2619.88174	2620.00000
	20	3.45	2570.10656	2570.00000	2619.88959	2620.00000
	30	3.45	2570.06479	2570.00000	2619.94116	2620.00000
	40	3.45	2570.12143	2570.00000	2619.82284	2620.00000
	50	3.45	2570.11769	2570.00000	2619.95008	2620.00000
Frequency Stability vs. Voltage	20	3.91	2570.02322	2570.00000	2619.84696	2620.00000
	20	4.45	2570.03305	2570.00000	2619.89915	2620.00000

**Band 40**

<b>LTE Band 40 Lower:</b>						
<b>Test Mode:</b>	<b>10M QPSK</b>	<b>Test Channel: Lowest for Lower Edge, Highest for Upper Edge</b>				
<b>Test Item</b>	<b>Temperature (°C)</b>	<b>Voltage (V<sub>DC</sub>)</b>	<b>Lower Edge (MHz)</b>		<b>Upper Edge (MHz)</b>	
			<b>Result</b>	<b>Limit</b>	<b>Result</b>	<b>Limit</b>
Frequency Stability vs. Temperature	-30	3.45	2505.16432	2305.00000	2314.88636	2315.00000
	-20	3.45	2505.01261	2305.00000	2314.84894	2315.00000
	-10	3.45	2505.13578	2305.00000	2314.92454	2315.00000
	0	3.45	2505.06355	2305.00000	2314.93385	2315.00000
	10	3.45	2505.06219	2305.00000	2314.87584	2315.00000
	20	3.45	2505.02988	2305.00000	2314.91005	2315.00000
	30	3.45	2505.01601	2305.00000	2314.84084	2315.00000
	40	3.45	2505.17414	2305.00000	2314.95384	2315.00000
	50	3.45	2505.09323	2305.00000	2314.98787	2315.00000
Frequency Stability vs. Voltage	20	3.91	2505.19008	2305.00000	2314.83946	2315.00000
	20	4.45	2505.04298	2305.00000	2314.96178	2315.00000
<b>Test Mode:</b>	<b>10M 16QAM</b>	<b>Test Channel: Lowest for Lower Edge, Highest for Upper Edge</b>				
<b>Test Item</b>	<b>Temperature (°C)</b>	<b>Voltage (V<sub>DC</sub>)</b>	<b>Lower Edge (MHz)</b>		<b>Upper Edge (MHz)</b>	
			<b>Result</b>	<b>Limit</b>	<b>Result</b>	<b>Limit</b>
Frequency Stability vs. Temperature	-30	3.45	2505.07130	2305.00000	2314.95750	2315.00000
	-20	3.45	2505.04451	2305.00000	2314.97712	2315.00000
	-10	3.45	2505.06334	2305.00000	2314.97543	2315.00000
	0	3.45	2505.18706	2305.00000	2314.93825	2315.00000
	10	3.45	2505.02747	2305.00000	2314.95256	2315.00000
	20	3.45	2505.00825	2305.00000	2314.88721	2315.00000
	30	3.45	2505.10476	2305.00000	2314.83289	2315.00000
	40	3.45	2505.08510	2305.00000	2314.92551	2315.00000
	50	3.45	2505.08623	2305.00000	2314.95160	2315.00000
Frequency Stability vs. Voltage	20	3.91	2505.19667	2305.00000	2314.81197	2315.00000
	20	4.45	2505.04811	2305.00000	2314.89582	2315.00000

<b>LTE Band 40 Upper:</b>						
<b>Test Mode:</b>	<b>10M QPSK</b>	<b>Test Channel: Lowest for Lower Edge,Highest for Upper Edge</b>				
<b>Test Item</b>	<b>Temperature (°C)</b>	<b>Voltage (V<sub>DC</sub>)</b>	<b>Lower Edge (MHz)</b>		<b>Upper Edge (MHz)</b>	
			<b>Result</b>	<b>Limit</b>	<b>Result</b>	<b>Limit</b>
Frequency Stability vs. Temperature	-30	3.45	2350.10232	2350.00000	2359.97930	2360.00000
	-20	3.45	2350.13077	2350.00000	2359.87147	2360.00000
	-10	3.45	2350.10963	2350.00000	2359.94822	2360.00000
	0	3.45	2350.14913	2350.00000	2359.96792	2360.00000
	10	3.45	2350.17812	2350.00000	2359.80649	2360.00000
	20	3.45	2350.08086	2350.00000	2359.93180	2360.00000
	30	3.45	2350.00016	2350.00000	2359.83089	2360.00000
	40	3.45	2350.10118	2350.00000	2359.92195	2360.00000
	50	3.45	2350.16346	2350.00000	2359.83605	2360.00000
Frequency Stability vs. Voltage	20	3.91	2350.19025	2350.00000	2359.96132	2360.00000
	20	4.45	2350.05834	2350.00000	2359.84929	2360.00000
<b>Test Mode:</b>	<b>10M 16QAM</b>	<b>Test Channel: Lowest for Lower Edge,Highest for Upper Edge</b>				
<b>Test Item</b>	<b>Temperature (°C)</b>	<b>Voltage (V<sub>DC</sub>)</b>	<b>Lower Edge (MHz)</b>		<b>Upper Edge (MHz)</b>	
			<b>Result</b>	<b>Limit</b>	<b>Result</b>	<b>Limit</b>
Frequency Stability vs. Temperature	-30	3.45	2350.09241	2350.00000	2359.83768	2360.00000
	-20	3.45	2350.15145	2350.00000	2359.90669	2360.00000
	-10	3.45	2350.10767	2350.00000	2359.91388	2360.00000
	0	3.45	2350.16480	2350.00000	2359.87694	2360.00000
	10	3.45	2350.16550	2350.00000	2359.98354	2360.00000
	20	3.45	2350.07047	2350.00000	2359.90143	2360.00000
	30	3.45	2350.10948	2350.00000	2359.96131	2360.00000
	40	3.45	2350.12370	2350.00000	2359.83156	2360.00000
	50	3.45	2350.12823	2350.00000	2359.96672	2360.00000
Frequency Stability vs. Voltage	20	3.91	2350.11506	2350.00000	2359.93437	2360.00000
	20	4.45	2350.09268	2350.00000	2359.82096	2360.00000

**Band 41**

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.45	2496.14548	2496.00	2689.95930	2690
	-20	3.45	2496.15381	2496.00	2689.96300	2690
	-10	3.45	2496.07236	2496.00	2689.89882	2690
	0	3.45	2496.11444	2496.00	2689.94979	2690
	10	3.45	2496.14733	2496.00	2689.99352	2690
	20	3.45	2496.11580	2496.00	2689.85322	2690
	30	3.45	2496.08362	2496.00	2689.89604	2690
	40	3.45	2496.13635	2496.00	2689.80177	2690
	50	3.45	2496.03585	2496.00	2689.90029	2690
Frequency Stability vs. Voltage	20	3.91	2496.10619	2496.00	2689.85163	2690
	20	4.45	2496.00298	2496.00	2689.99810	2690
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.45	2496.04118	2496.00	2689.95371	2690
	-20	3.45	2496.07302	2496.00	2689.89638	2690
	-10	3.45	2496.15804	2496.00	2689.80300	2690
	0	3.45	2496.06971	2496.00	2689.89580	2690
	10	3.45	2496.02560	2496.00	2689.98253	2690
	20	3.45	2496.01335	2496.00	2689.97736	2690
	30	3.45	2496.15916	2496.00	2689.92370	2690
	40	3.45	2496.18967	2496.00	2689.81729	2690
	50	3.45	2496.09856	2496.00	2689.96071	2690
Frequency Stability vs. Voltage	20	3.91	2496.18211	2496.00	2689.89077	2690
	20	4.45	2496.05272	2496.00	2689.87269	2690

**Band 42**

<b>Test Mode:</b>	<b>20M QPSK</b>	<b>Test Channel: Lowest for Lower Edge, Highest for Upper Edge</b>				
<b>Test Item</b>	<b>Temperature (°C)</b>	<b>Voltage (V<sub>DC</sub>)</b>	<b>Lower Edge (MHz)</b>		<b>Upper Edge (MHz)</b>	
			<b>Result</b>	<b>Limit</b>	<b>Result</b>	<b>Limit</b>
Frequency Stability vs. Temperature	-30	3.45	3450.03377	3450.00000	3549.95393	3550.00000
	-20	3.45	3450.10742	3450.00000	3549.95585	3550.00000
	-10	3.45	3450.01625	3450.00000	3549.91009	3550.00000
	0	3.45	3450.18100	3450.00000	3549.95811	3550.00000
	10	3.45	3450.03594	3450.00000	3549.80838	3550.00000
	20	3.45	3450.06827	3450.00000	3549.80876	3550.00000
	30	3.45	3450.18393	3450.00000	3549.85023	3550.00000
	40	3.45	3450.05549	3450.00000	3549.86660	3550.00000
	50	3.45	3450.18766	3450.00000	3549.86417	3550.00000
Frequency Stability vs. Voltage	20	3.91	3450.02771	3450.00000	3549.96419	3550.00000
	20	4.45	3450.17809	3450.00000	3549.82499	3550.00000
<b>Test Mode:</b>	<b>20M 16QAM</b>	<b>Test Channel: Lowest for Lower Edge, Highest for Upper Edge</b>				
<b>Test Item</b>	<b>Temperature (°C)</b>	<b>Voltage (V<sub>DC</sub>)</b>	<b>Lower Edge (MHz)</b>		<b>Upper Edge (MHz)</b>	
			<b>Result</b>	<b>Limit</b>	<b>Result</b>	<b>Limit</b>
Frequency Stability vs. Temperature	-30	3.45	3450.11930	3450.00000	3549.86786	3550.00000
	-20	3.45	3450.02954	3450.00000	3549.94823	3550.00000
	-10	3.45	3450.04811	3450.00000	3549.85277	3550.00000
	0	3.45	3450.12712	3450.00000	3549.92420	3550.00000
	10	3.45	3450.09376	3450.00000	3549.97596	3550.00000
	20	3.45	3450.18347	3450.00000	3549.92664	3550.00000
	30	3.45	3450.13052	3450.00000	3549.91976	3550.00000
	40	3.45	3450.01372	3450.00000	3549.83516	3550.00000
	50	3.45	3450.03361	3450.00000	3549.94282	3550.00000
Frequency Stability vs. Voltage	20	3.91	3450.02027	3450.00000	3549.95350	3550.00000
	20	4.45	3450.12099	3450.00000	3549.87414	3550.00000



**Band 66**

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.45	1710.09869	1710.00	1779.83808	1780
	-20	3.45	1710.14740	1710.00	1779.98473	1780
	-10	3.45	1710.09025	1710.00	1779.97322	1780
	0	3.45	1710.00992	1710.00	1779.92553	1780
	10	3.45	1710.09223	1710.00	1779.81292	1780
	20	3.45	1710.13507	1710.00	1779.82849	1780
	30	3.45	1710.02552	1710.00	1779.81734	1780
	40	3.45	1710.10649	1710.00	1779.89063	1780
	50	3.45	1710.12859	1710.00	1779.90639	1780
Frequency Stability vs. Voltage	20	3.91	1710.01150	1710.00	1779.98140	1780
	20	4.45	1710.12926	1710.00	1779.89113	1780
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.45	1710.14744	1710.00	1779.83061	1780
	-20	3.45	1710.08534	1710.00	1779.86410	1780
	-10	3.45	1710.18005	1710.00	1779.80090	1780
	0	3.45	1710.01030	1710.00	1779.83523	1780
	10	3.45	1710.10505	1710.00	1779.84816	1780
	20	3.45	1710.17316	1710.00	1779.98892	1780
	30	3.45	1710.04735	1710.00	1779.97046	1780
	40	3.45	1710.18742	1710.00	1779.99005	1780
	50	3.45	1710.01859	1710.00	1779.90429	1780
Frequency Stability vs. Voltage	20	3.91	1710.13046	1710.00	1779.91634	1780
	20	4.45	1710.17093	1710.00	1779.94521	1780

## **EUT PHOTOGRAPHS**

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Please refer to the attachment SZ1231211-74617E-RF External photo and SZ1231211-74617E-RF Internal photo.

## **TEST SETUP PHOTOGRAPHS**

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Please refer to the attachment SZ1231211-74617E-RF Test Setup photo.

**\*\*\*\*\* END OF REPORT \*\*\*\*\***