



TESTREPORT

Applicant Name : ITELE MOBILE LIMITED
Address : FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25
SHAN MEI STREET FOTAN NT Hong Kong
Report Number: RA230523-28698E-RF-00C
FCC ID: 2AJMN-A663L

Test Standard (s)

FCC PART 27; FCC PART 22H; FCC PART 24E; FCC PART 90

Sample Description

Product Type: Mobile Phone
Model No.: A663L
Multiple Model(s) No.: N/A
Trade Mark: itel
Date Received: 2023/05/23
Report Date: 2023/06/06

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Approved By:

Roger Ling
EMC Engineer

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EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

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Version 30: 2023-1-30

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FCC -2G,3G,4G

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	RA230523-28698E-RF-00C	Original Report	2023/06/06

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

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(RX) LTE Band 12: 699-716MHz(TX); 729-746MHz(RX) LTE Band 17: 704-716MHz(TX); 734-746MHz(RX) LTE Band 26: 814-849MHz(TX); 859-894MHz(RX) LTE Band 38: 2570-2620MHz(TX/RX) LTE Band 41: 2535-2655MHz(TX/RX) LTE Band 66: 1710-1780MHz(TX); 2110-2180MHz(RX)
Modulation Technique	2G: GMSK, 8PSK 3G: BPSK, QPSK, 16QAM 4G: QPSK, 16QAM
Antenna Specification*	GSM850/WCDMA Band 5/LTE Band 5/26: -4.5dBi PCS 1900/WCDMA Band 2/ LTE Band 2: -2.5dBi LTE Band 4/66: -4.2dBi LTE Band 12/17: -6.5dBi LTE Band 7/38/41: -3.5dBi (provided by the applicant)
Voltage Range	DC 3.85V from battery or DC 5V from adapter
Test Sample serial number	2647-5 for Radiated Emissions Test 2647-1 for RF Conducted Test (Assigned by ATC)
Sample/EUT Status	Good condition
Extreme condition*	L.V.: Low Voltage 3.45V _{DC} N.V.: Normal Voltage 3.85V _{DC} H.V.: High Voltage 4.4V _{DC} (provided by the applicant)
Adapter information	Model: U100ISA Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 2.0A

Objective

This test report is in accordance with Part 2-Subpart J, Part 22-Subpart H, Part 24-Subpart E, Part 27, and Part 90 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
 Part 90 – Private Land Mobile Radio Services

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. 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 Frequency		0.082×10^{-7}
RF output power, conducted		0.71dB
Unwanted Emission, conducted		1.6dB
AC Power Lines Conducted Emissions		2.72dB
Audio Frequency Response		0.1dB
Low Pass Filter Response		1.2dB
Modulation Limiting		1%
Emissions, Radiated	9kHz - 30MHz	2.06dB
	30MHz - 1GHz	5.08dB
	1GHz - 18GHz	4.96dB
	18GHz - 26.5GHz	5.16dB
	26.5GHz - 40GHz	4.64dB
Temperature		1°C
Humidity		6%
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 Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0016. The Registration Number is 30241.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

Test was performed as below table:

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
LTE B17	5	706.5	710	713.5
	10	709	710	711

Frequency band	Bandwidth (MHz)	Test Frequency(MHz)		
		Low	Middle	High
LTE B26(Part 22H)	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
	15	831.5	836.5	841.5
LTE B26(Part 90S)	1.4	814.7	819	823.3
	3	815.5	819	822.5
	5	816.5	819	821.5
	10	/	819	/
LTE B26 (Part 22H&Part 90 cross channel)	1.4	/	824	/
	3	/	824	/
	5	/	824	/
	10	/	824	/
	15	821.5	824	/
LTE B38	5	2572.5	2595	2617.5
	10	2575	2595	2615
	15	2577.5	2595	2612.5
	20	2580	2595	2610
LTE B41	5	2537.5	2595	2652.5
	10	2540	2595	2650
	15	2542.5	2595	2647.5
	20	2545	2595	2645
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.

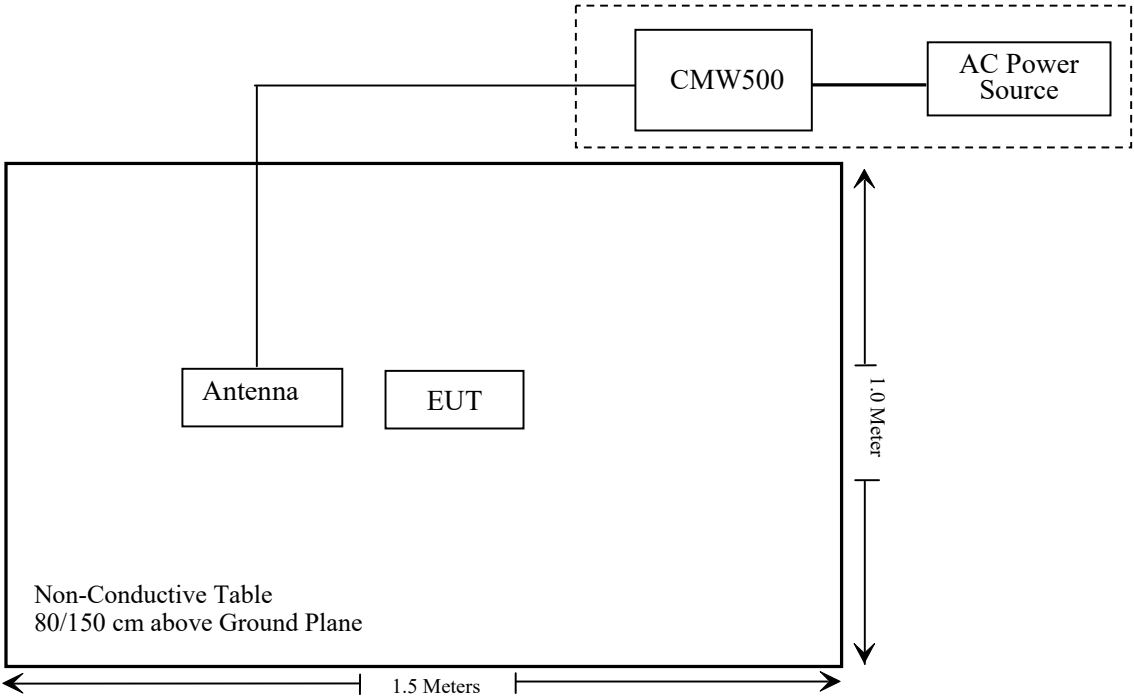
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	1201.002K50-11621 8-UY

Support Cable Description

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

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§ 1.1307, §2.1093	RF Exposure (SAR)	Compliant*
§2.1046; § 22.913 (a) (d); § 24.232 (c) (d); §27.50; §90.635	RF Output Power	Compliant
§ 2.1047	Modulation Characteristics	Not Applicable
§ 2.1049; § 22.905; § 22.917; § 24.238; §27.53 §90.209	Occupied Bandwidth	Compliant
§ 2.1051; §22.917 (a); § 24.238 (a); §27.53; §90.691	Spurious Emissions at Antenna Terminal	Compliant
§ 2.1053; § 22.917 (a); § 24.238 (a); §27.53 §90.691	Field Strength of Spurious Radiation	Compliant
§ 22.917 (a); § 24.238 (a); §27.53 §90.691	Band Edge	Compliant
§ 2.1055; § 22.355; § 24.235; §27.54; §90.213	Frequency stability	Compliant

Compliant*: Please refer to SAR report number: RA230523-28698E-SA.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test					
Rohde& Schwarz	Test Receiver	ESR	102725	2022/11/25	2023/11/24
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2022/11/25	2023/11/24
SONOMA INSTRUMENT	Amplifier	310 N	186131	2022/11/08	2023/11/07
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2022/11/08	2023/11/07
Quinstar	Amplifier	QLW-184055 36-J0	15964001002	2022/11/08	2023/11/07
Schwarzbeck	Horn Antenna	BBHA9120D	837	2023/02/22	2026/02/21
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2022/12/26	2025/12/25
Schwarzbeck	Bilog Antenna	VULB9163	9163-194	2023/02/14	2026/02/13
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-655	2022/12/26	2025/12/25
Schwarzbeck	Horn Antenna	BBHA9120D	837	2023/02/22	2026/02/21
PASTERNAK	Horn Antenn	PE9852/2F-20	1120 (ATC-BA-024-1)	2023/01/04	2026/01/03
PASTERNAK	Horn Antenn	PE9852/2F-20	1120 (ATC-BA-025-1)	2023/01/04	2026/01/03
Radiated Emission Test Software:e3 191218 (V9)					
Unknown	RF Coaxial Cable	No.10	N050	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.11	N1000	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.12	N040	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.13	N300	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.14	N800	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.15	N600	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.16	N650	2022/11/25	2023/11/24
Unknown	RFCoaxialCable	No.16	N200	2022/11/25	2023/11/24
Agilent	Signal Generator	N5183A	MY51040755	2022/11/25	2023/11/24

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
SPECTRUM ANALYZER	Rohde & Schwarz	FSU26	200982	2022/07/04	2023/07/03
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	110566	2022/11/25	2023/11/24
Mini-Circuits	Power Splitter	DC-18000MHz	SF10944151S	2022/11/25	2023/11/24
BACL	Temp. & Humid. Chamber	BTH-150-40	30192	2023/02/09	2024/02/08
WEINSCHEL	10dB Attenuator	5324	AU 3842	2022/11/25	2023/11/24
Manson	DC Power Source	KPS-6604	ATCS-205	NCR	NCR
Unknown	RF Coaxial Cable	No.31	RF-01	Each time	

* Statement of Traceability: Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

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

Applicable Standard

FCC§1.1307 and §2.1093.

Test Result

Compliant, please refer to the SAR report: RA230523-28698E-SA.

FCC§2.1047 - MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 24E& 27& 90, 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 ; §90.635- 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.

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

According to §27.50(b), Portable stations (hand-held devices) transmitting in the 746–757 MHz, 776–788 MHz, and 805–806 MHz bands are limited to 3 watts ERP.

According to §27.50(c), 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.

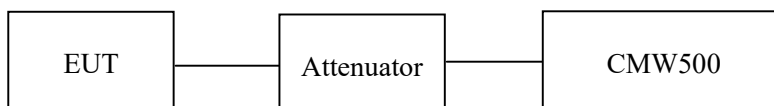
According to §27.50(h), the maximum EIRP must not exceed 2Watts (33dBm) for 2496-2690 MHz.

According to §90.635, the maximum ERP must not exceed 100Watts (50dBm) for 814-824MHz.

Test Procedure

Conducted method:

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



Note: the path loss (cable loss and attenuator) has included in the result.

Test Data

Environmental Conditions

Temperature:	27.5~28.4 °C
Relative Humidity:	48.2~52.6 %
ATM Pressure:	101.0 kPa

The testing was performed by Jacob Huang from 2023-05-26 to 2023-06-06.

Conducted Power**Cellular Band (Part 22H)**

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)	ERP(dBm)	Limit (dBm)
GSM	128	824.2	33.1	26.45	38.45
	190	836.6	33.2	26.55	38.45
	251	848.8	33.1	26.45	38.45

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)				ERP(dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	1 slot	2 slots	3 slots	4 slots	
GPRS	128	824.2	33.03	30.87	29.26	27.29	26.38	24.22	22.61	20.64	38.45
	190	836.6	33.06	30.91	29.30	27.33	26.41	24.26	22.65	20.68	38.45
	251	848.8	33.07	30.89	29.29	27.37	26.42	24.24	22.64	20.72	38.45

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)				ERP(dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	1 slot	2 slots	3 slots	4 slots	
EGPRS	128	824.2	27.38	25.84	23.58	21.15	20.73	19.19	16.93	14.50	38.45
	190	836.6	27.32	25.88	23.59	21.09	20.67	19.23	16.94	14.44	38.45
	251	848.8	27.25	25.81	23.49	20.90	20.60	19.16	16.84	14.25	38.45

Mode	Test Mode	3GPP Sub Test	Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
WCDMA (Band 5)	RMC12.2k		23.37	23.37	23.35	16.72	16.72	16.70
	HSDPA	1	23.32	23.21	23.15	16.67	16.56	16.50
		2	23.17	23.31	23.24	16.52	16.66	16.59
		3	23.15	23.44	23.21	16.50	16.79	16.56
		4	23.36	23.23	23.24	16.71	16.58	16.59
	HSUPA	1	23.29	23.23	23.07	16.64	16.58	16.42
		2	23.16	23.49	23.28	16.51	16.84	16.63
		3	23.18	23.17	23.34	16.53	16.52	16.69
		4	23.23	23.26	23.34	16.58	16.61	16.69
		5	23.21	23.13	23.18	16.56	16.48	16.53
	HSPA+	1	23.17	23.24	23.41	16.52	16.59	16.76

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)

For GSM850/WCDMA Band5: Antenna Gain = -4.5dBi = -6.65dBd (0dBd=2.15dBi)

Limit: ERP≤38.45dBm

PCS Band (Part 24E)

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)	EIRP(dBm)	Limit (dBm)
GSM	512	1850.2	30.7	28.20	33
	661	1880.0	31.0	28.50	33
	810	1909.8	30.6	28.10	33

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)				EIRP(dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	1 slot	2 slots	3 slots	4 slots	
GPRS	512	1850.2	30.70	29.32	27.81	25.69	28.20	26.82	25.31	23.19	33
	661	1880.0	30.95	28.90	27.29	25.30	28.45	26.40	24.79	22.80	33
	810	1909.8	30.56	28.23	26.69	24.72	28.06	25.73	24.19	22.22	33

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)				EIRP(dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	1 slot	2 slots	3 slots	4 slots	
EGPRS	512	1850.2	26.60	25.84	23.54	21.42	24.10	23.34	21.04	18.92	33
	661	1880.0	26.41	25.60	23.56	21.19	23.91	23.10	21.06	18.69	33
	810	1909.8	26.29	25.46	23.35	21.22	23.79	22.96	20.85	18.72	33

Mode	Test Mode	3GPP Sub Test	Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
WCDMA (Band 2)	RMC12.2k		23.98	23.86	23.94	21.48	21.36	21.44
	HSDPA	1	23.92	23.65	23.86	21.42	21.15	21.36
		2	23.78	23.71	23.84	21.28	21.21	21.34
		3	23.85	23.86	23.91	21.35	21.36	21.41
		4	23.76	23.84	23.85	21.26	21.34	21.35
	HSUPA	1	23.84	23.70	23.97	21.34	21.20	21.47
		2	23.78	23.85	23.94	21.28	21.35	21.44
		3	23.86	23.81	23.91	21.36	21.31	21.41
		4	23.71	23.84	23.91	21.21	21.34	21.41
		5	23.97	23.94	23.82	21.47	21.44	21.32
	HSPA+	1	23.71	23.82	23.91	21.21	21.32	21.41

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

For PCS1900/WCDMA Band2: Antenna Gain = -2.5dBi

Limit: EIRP≤33dBm

AWS Band 4

Mode	Test Mode	3GPP Sub Test	Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
WCDMA (Band 4)	RMC12.2k		23.76	23.80	23.83	19.56	19.60	19.63
	HSDPA	1	23.87	23.82	23.65	19.67	19.62	19.45
		2	23.64	23.67	23.68	19.44	19.47	19.48
		3	23.72	23.65	23.71	19.52	19.45	19.51
		4	23.74	23.78	23.73	19.54	19.58	19.53
	HSUPA	1	23.70	23.67	23.49	19.50	19.47	19.29
		2	23.61	23.67	23.69	19.41	19.47	19.49
		3	23.64	23.61	23.68	19.44	19.41	19.48
		4	23.61	23.67	23.61	19.41	19.47	19.41
		5	23.59	23.64	23.58	19.39	19.44	19.38
	HSPA+	1	23.74	23.54	23.53	19.54	19.34	19.33

Note: $EIRP(dBm) = \text{Conducted Power}(dBm) + \text{Antenna Gain}(dBi)$

For WCDMA Band 4: Antenna Gain = -4.2dBi

Limit: $EIRP \leq 30dBm$

LTE Band 2

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	22.45	22.59	22.49	19.11	19.25	19.15
		RB1#3	22.44	22.62	22.55	19.10	19.28	19.21
		RB1#5	22.48	22.59	22.49	19.14	19.25	19.15
		RB3#0	23.17	23.04	23.17	19.83	19.70	19.83
		RB3#3	23.18	23.02	23.13	19.84	19.68	19.79
		RB6#0	21.99	21.92	22.13	18.65	18.58	18.79
	16QAM	RB1#0	21.26	21.92	22.26	17.92	18.58	18.92
		RB1#3	21.28	21.86	22.31	17.94	18.52	18.97
		RB1#5	21.24	21.93	22.29	17.90	18.59	18.95
		RB3#0	22.14	22.00	22.00	18.80	18.66	18.66
		RB3#3	22.08	22.01	21.94	18.74	18.67	18.60
		RB6#0	21.31	21.29	21.21	17.97	17.95	17.87
3.0	QPSK	RB1#0	22.65	22.38	22.49	19.31	19.04	19.15
		RB1#8	22.67	22.44	22.47	19.33	19.10	19.13
		RB1#14	22.62	22.45	22.47	19.28	19.11	19.13
		RB6#0	22.06	22.05	21.99	18.72	18.71	18.65
		RB6#9	22.04	22.04	22.03	18.70	18.70	18.69
		RB15#0	22.04	22.07	22.16	18.70	18.73	18.82
	16QAM	RB1#0	21.8	21.33	21.99	18.46	17.99	18.65
		RB1#8	21.73	21.35	21.93	18.39	18.01	18.59
		RB1#14	21.82	21.35	21.92	18.48	18.01	18.58
		RB6#0	21.29	21.13	21.06	17.95	17.79	17.72
		RB6#9	21.27	21.1	21.07	17.93	17.76	17.73
		RB15#0	21.17	21.14	21.23	17.83	17.80	17.89

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	22.66	22.46	22.51	20.16	19.96	20.01
		RB1#13	22.68	22.49	22.46	20.18	19.99	19.96
		RB1#24	22.65	22.43	22.53	20.15	19.93	20.03
		RB15#0	21.97	22.02	22.12	19.47	19.52	19.62
		RB15#10	22.07	22.01	22.11	19.57	19.51	19.61
		RB25#0	21.99	21.98	22.09	19.49	19.48	19.59
	16QAM	RB1#0	21.58	21.21	20.63	19.08	18.71	18.13
		RB1#13	21.58	21.23	20.68	19.08	18.73	18.18
		RB1#24	21.53	21.25	20.71	19.03	18.75	18.21
		RB15#0	21.26	21.15	21.2	18.76	18.65	18.70
		RB15#10	21.36	21.15	21.22	18.86	18.65	18.72
		RB25#0	21.04	20.94	21.27	18.54	18.44	18.77
10.0	QPSK	RB1#0	22.59	22.51	22.39	20.09	20.01	19.89
		RB1#25	22.52	22.43	22.47	20.02	19.93	19.97
		RB1#49	22.47	22.53	22.4	19.97	20.03	19.90
		RB25#0	22.1	21.98	22.02	19.60	19.48	19.52
		RB25#25	21.97	22.02	21.99	19.47	19.52	19.49
		RB50#0	22.46	21.96	22.11	19.96	19.46	19.61
	16QAM	RB1#0	22.26	21.01	21.78	19.76	18.51	19.28
		RB1#25	22.31	20.99	21.73	19.81	18.49	19.23
		RB1#49	22.29	20.99	21.78	19.79	18.49	19.28
		RB25#0	21.14	21.27	21.17	18.64	18.77	18.67
		RB25#25	21.27	21.26	21.14	18.77	18.76	18.64
		RB50#0	21.11	21.14	21.12	18.61	18.64	18.62

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
15.0	QPSK	RB1#0	22.66	22.48	22.44	20.16	19.98	19.94
		RB1#38	22.55	22.49	22.39	20.05	19.99	19.89
		RB1#74	22.54	22.49	22.45	20.04	19.99	19.95
		RB36#0	22.03	22.11	22.03	19.53	19.61	19.53
		RB36#39	22.02	22.09	22.03	19.52	19.59	19.53
		RB75#0	22.02	22.06	22.13	19.52	19.56	19.63
	16QAM	RB1#0	22.33	21.88	21.78	19.83	19.38	19.28
		RB1#38	22.33	21.91	21.8	19.83	19.41	19.30
		RB1#74	22.32	21.94	21.7	19.82	19.44	19.20
		RB36#0	21.09	21.14	21.23	18.59	18.64	18.73
		RB36#39	21.16	21.05	21.17	18.66	18.55	18.67
		RB75#0	21.21	21.11	21.18	18.71	18.61	18.68
20.0	QPSK	RB1#0	22.74	22.67	22.58	20.24	20.17	20.08
		RB1#50	22.67	22.56	22.62	20.17	20.06	20.12
		RB1#99	22.62	22.67	22.59	20.12	20.17	20.09
		RB50#0	22.08	22.69	22.06	19.58	20.19	19.56
		RB50#50	22.02	21.92	21.92	19.52	19.42	19.42
		RB100#0	21.95	22.04	21.96	19.45	19.54	19.46
	16QAM	RB1#0	21.59	22.42	21.56	19.09	19.92	19.06
		RB1#50	21.52	22.39	21.52	19.02	19.89	19.02
		RB1#99	21.57	22.48	21.54	19.07	19.98	19.04
		RB50#0	21.07	21.49	21.14	18.57	18.99	18.64
		RB50#50	21.13	21.06	21.09	18.63	18.56	18.59
		RB100#0	21.05	21.14	21.16	18.55	18.64	18.66

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi)
 For LTE Band2: Antenna Gain = -2.5dBi
 Limit: EIRP ≤ 33dBm

LTE Band 4

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	22.49	22.29	22.53	18.29	18.09	18.33
		RB1#3	22.55	22.28	22.52	18.35	18.08	18.32
		RB1#5	22.49	22.29	22.53	18.29	18.09	18.33
		RB3#0	23.06	23.02	22.92	18.86	18.82	18.72
		RB3#3	23.07	23.01	22.89	18.87	18.81	18.69
		RB6#0	22.06	22.03	21.89	17.86	17.83	17.69
	16QAM	RB1#0	22.29	21.15	22.46	18.09	16.95	18.26
		RB1#3	22.29	21.22	22.42	18.09	17.02	18.22
		RB1#5	22.3	21.23	22.44	18.10	17.03	18.24
		RB3#0	21.91	22.12	22.11	17.71	17.92	17.91
		RB3#3	21.97	22.11	22.16	17.77	17.91	17.96
		RB6#0	21.24	21.26	21.07	17.04	17.06	16.87
3.0	QPSK	RB1#0	22.48	22.33	22.34	18.28	18.13	18.14
		RB1#8	22.54	22.34	22.33	18.34	18.14	18.13
		RB1#14	22.45	22.22	22.3	18.25	18.02	18.10
		RB6#0	22.06	22.05	21.9	17.86	17.85	17.70
		RB6#9	22.03	21.91	21.92	17.83	17.71	17.72
		RB15#0	22.02	21.95	21.97	17.82	17.75	17.77
	16QAM	RB1#0	22.28	21.17	21.5	18.08	16.97	17.30
		RB1#8	22.27	21.19	21.49	18.07	16.99	17.29
		RB1#14	22.23	21.17	21.43	18.03	16.97	17.23
		RB6#0	21.22	21.2	20.98	17.02	17.00	16.78
		RB6#9	21.14	21.19	20.97	16.94	16.99	16.77
		RB15#0	21.12	21.11	20.99	16.92	16.91	16.79

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	22.56	22.42	22.44	18.36	18.22	18.24
		RB1#13	22.47	22.37	22.57	18.27	18.17	18.37
		RB1#24	22.53	22.38	22.39	18.33	18.18	18.19
		RB15#0	21.98	22.04	21.97	17.78	17.84	17.77
		RB15#10	21.89	22.02	21.93	17.69	17.82	17.73
		RB25#0	21.99	21.99	21.9	17.79	17.79	17.70
	16QAM	RB1#0	21.62	21.13	20.57	17.42	16.93	16.37
		RB1#13	21.63	21.14	20.6	17.43	16.94	16.40
		RB1#24	21.64	21.25	20.52	17.44	17.05	16.32
		RB15#0	21.01	21.1	21.06	16.81	16.90	16.86
		RB15#10	20.9	21.02	20.67	16.70	16.82	16.47
		RB25#0	21.05	20.89	20.77	16.85	16.69	16.57
10.0	QPSK	RB1#0	22.32	21.83	21.81	18.12	17.63	17.61
		RB1#25	22.2	21.77	21.85	18.00	17.57	17.65
		RB1#49	21.92	21.75	21.82	17.72	17.55	17.62
		RB25#0	21.05	21.37	21.42	16.85	17.17	17.22
		RB25#25	21.03	21.51	21.44	16.83	17.31	17.24
		RB50#0	21.05	21.43	21.43	16.85	17.23	17.23
	16QAM	RB1#0	20.61	20.27	21.23	16.41	16.07	17.03
		RB1#25	21.14	20.34	21.2	16.94	16.14	17.00
		RB1#49	20.73	20.22	21.19	16.53	16.02	16.99
		RB25#0	20.43	20.47	20.45	16.23	16.27	16.25
		RB25#25	20.39	20.59	20.44	16.19	16.39	16.24
		RB50#0	20.43	20.34	20.52	16.23	16.14	16.32

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
15.0	QPSK	RB1#0	22.17	21.87	21.8	17.97	17.67	17.60
		RB1#38	22.1	21.81	21.82	17.90	17.61	17.62
		RB1#74	22.06	21.84	21.69	17.86	17.64	17.49
		RB36#0	21.45	21.4	21.41	17.25	17.20	17.21
		RB36#39	21.46	21.38	21.37	17.26	17.18	17.17
		RB75#0	21.41	21.39	21.46	17.21	17.19	17.26
	16QAM	RB1#0	21.09	21.38	21.15	16.89	17.18	16.95
		RB1#38	21.12	21.28	21.07	16.92	17.08	16.87
		RB1#74	21.1	21.26	21.02	16.90	17.06	16.82
		RB36#0	20.65	20.53	20.6	16.45	16.33	16.40
		RB36#39	20.61	20.45	20.59	16.41	16.25	16.39
		RB75#0	20.64	20.4	20.65	16.44	16.20	16.45
20.0	QPSK	RB1#0	22.08	22.05	22.29	17.88	17.85	18.09
		RB1#50	21.92	21.98	22.26	17.72	17.78	18.06
		RB1#99	21.87	21.87	22.22	17.67	17.67	18.02
		RB50#0	21.41	21.5	21.62	17.21	17.30	17.42
		RB50#50	21.38	21.52	21.5	17.18	17.32	17.30
		RB100#0	21.38	21.47	21.67	17.18	17.27	17.47
	16QAM	RB1#0	21.48	21.87	20.52	17.28	17.67	16.32
		RB1#50	21.24	21.78	20.53	17.04	17.58	16.33
		RB1#99	21.32	21.73	20.5	17.12	17.53	16.30
		RB50#0	20.71	20.57	20.73	16.51	16.37	16.53
		RB50#50	20.66	20.51	20.66	16.46	16.31	16.46
		RB100#0	20.56	20.54	20.59	16.36	16.34	16.39

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

For LTE Band4: Antenna Gain = -4.2dBi

Limit: EIRP ≤ 30dBm

LTE Band5

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	21.87	21.93	21.88	15.22	15.28	15.23
		RB1#3	21.87	21.93	21.9	15.22	15.28	15.25
		RB1#5	21.82	21.9	21.99	15.17	15.25	15.34
		RB3#0	22.47	22.57	22.44	15.82	15.92	15.79
		RB3#3	22.5	22.62	22.56	15.85	15.97	15.91
		RB6#0	21.25	21.38	21.32	14.60	14.73	14.67
	16QAM	RB1#0	21.35	21.42	21.2	14.70	14.77	14.55
		RB1#3	21.3	21.52	21.41	14.65	14.87	14.76
		RB1#5	21.32	21.35	21.2	14.67	14.70	14.55
		RB3#0	21.45	21.28	21.23	14.80	14.63	14.58
		RB3#3	21.57	21.2	21.3	14.92	14.55	14.65
		RB6#0	21.06	20.87	20.43	14.41	14.22	13.78
3.0	QPSK	RB1#0	21.94	21.96	21.87	15.29	15.31	15.22
		RB1#8	21.89	21.98	21.82	15.24	15.33	15.17
		RB1#14	21.95	21.92	21.92	15.30	15.27	15.27
		RB6#0	21.39	21.57	21.44	14.74	14.92	14.79
		RB6#9	21.53	21.35	21.42	14.88	14.70	14.77
		RB15#0	21.41	21.42	21.45	14.76	14.77	14.80
	16QAM	RB1#0	21.58	20.71	21.09	14.93	14.06	14.44
		RB1#8	21.58	20.59	21.16	14.93	13.94	14.51
		RB1#14	21.67	20.59	21.12	15.02	13.94	14.47
		RB6#0	20.85	20.62	20.73	14.20	13.97	14.08
		RB6#9	20.6	21.01	20.39	13.95	14.36	13.74
		RB15#0	20.8	20.85	20.8	14.15	14.20	14.15

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	22.64	21.92	21.93	15.99	15.27	15.28
		RB1#13	22.07	21.97	21.76	15.42	15.32	15.11
		RB1#24	22.14	21.88	21.92	15.49	15.23	15.27
		RB15#0	21.26	21.5	21.48	14.61	14.85	14.83
		RB15#10	21.51	21.41	21.4	14.86	14.76	14.75
		RB25#0	21.54	21.42	21.37	14.89	14.77	14.72
	16QAM	RB1#0	20.78	20.93	19.96	14.13	14.28	13.31
		RB1#13	20.81	20.9	19.94	14.16	14.25	13.29
		RB1#24	20.79	20.95	19.93	14.14	14.30	13.28
		RB15#0	20.72	20.39	20.5	14.07	13.74	13.85
		RB15#10	20.3	20.64	20.8	13.65	13.99	14.15
		RB25#0	20.4	20.84	20.79	13.75	14.19	14.14
10.0	QPSK	RB1#0	21.93	22.03	21.84	15.28	15.38	15.19
		RB1#25	21.98	22.47	21.72	15.33	15.82	15.07
		RB1#49	21.87	21.8	21.89	15.22	15.15	15.24
		RB25#0	21.42	21.45	21.39	14.77	14.80	14.74
		RB25#25	21.56	21.49	21.38	14.91	14.84	14.73
		RB50#0	21.26	21.45	21.37	14.61	14.80	14.72
	16QAM	RB1#0	21.59	20.45	21.08	14.94	13.80	14.43
		RB1#25	21.48	20.32	21.07	14.83	13.67	14.42
		RB1#49	21.58	20.41	21.03	14.93	13.76	14.38
		RB25#0	20.48	20.63	20.83	13.83	13.98	14.18
		RB25#25	20.55	20.59	20.75	13.90	13.94	14.10
		RB50#0	20.47	20.82	20.45	13.82	14.17	13.80

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)

For LTE Band5: Antenna Gain = -4.5dBi = -6.65dBd (0dBd=2.15dBi)

Limit: ERP≤38.45dBm

LTE Band 7

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	21.98	21.99	21.91	18.48	18.49	18.41
		RB1#13	22.08	21.96	21.99	18.58	18.46	18.49
		RB1#24	22.05	21.91	21.8	18.55	18.41	18.30
		RB15#0	21.49	21.6	21.34	17.99	18.10	17.84
		RB15#10	21.49	21.54	21.44	17.99	18.04	17.94
		RB25#0	21.46	21.53	21.41	17.96	18.03	17.91
	16QAM	RB1#0	20.99	20.63	20.09	17.49	17.13	16.59
		RB1#13	21.32	20.63	20.06	17.82	17.13	16.56
		RB1#24	20.98	20.51	20.01	17.48	17.01	16.51
		RB15#0	20.54	20.58	20.55	17.04	17.08	17.05
		RB15#10	20.54	20.56	20.49	17.04	17.06	16.99
		RB25#0	20.55	20.49	20.59	17.05	16.99	17.09
10.0	QPSK	RB1#0	21.91	21.98	21.92	18.41	18.48	18.42
		RB1#25	21.88	21.94	21.8	18.38	18.44	18.30
		RB1#49	21.93	21.91	21.79	18.43	18.41	18.29
		RB25#0	21.55	21.47	21.39	18.05	17.97	17.89
		RB25#25	21.45	21.38	21.45	17.95	17.88	17.95
		RB50#0	21.53	21.48	21.36	18.03	17.98	17.86
	16QAM	RB1#0	21.79	20.47	21.08	18.29	16.97	17.58
		RB1#25	21.78	20.51	21.09	18.28	17.01	17.59
		RB1#49	21.86	20.44	21.03	18.36	16.94	17.53
		RB25#0	20.65	20.67	20.51	17.15	17.17	17.01
		RB25#25	20.66	20.59	20.54	17.16	17.09	17.04
		RB50#0	20.59	20.5	20.51	17.09	17.00	17.01

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
15.0	QPSK	RB1#0	21.98	22.04	21.81	18.48	18.54	18.31
		RB1#38	21.88	22.01	21.88	18.38	18.51	18.38
		RB1#74	21.91	21.9	21.75	18.41	18.40	18.25
		RB36#0	21.51	21.51	21.5	18.01	18.01	18.00
		RB36#39	21.43	21.33	21.44	17.93	17.83	17.94
		RB75#0	21.47	21.42	21.45	17.97	17.92	17.95
	16QAM	RB1#0	21.85	21.41	21.12	18.35	17.91	17.62
		RB1#38	21.88	21.38	21.12	18.38	17.88	17.62
		RB1#74	21.9	21.27	21.06	18.40	17.77	17.56
		RB36#0	20.63	20.64	20.67	17.13	17.14	17.17
		RB36#39	20.6	20.55	20.59	17.10	17.05	17.09
		RB75#0	20.72	20.63	20.61	17.22	17.13	17.11
20.0	QPSK	RB1#0	22.23	22.21	21.94	18.73	18.71	18.44
		RB1#50	22.19	22.13	21.96	18.69	18.63	18.46
		RB1#99	22.15	22.06	21.82	18.65	18.56	18.32
		RB50#0	21.4	21.44	21.54	17.90	17.94	18.04
		RB50#50	21.51	21.38	21.37	18.01	17.88	17.87
		RB100#0	21.43	21.59	21.51	17.93	18.09	18.01
	16QAM	RB1#0	21.26	21.64	20.67	17.76	18.14	17.17
		RB1#50	21.27	21.51	20.66	17.77	18.01	17.16
		RB1#99	21.23	21.44	20.69	17.73	17.94	17.19
		RB50#0	20.68	20.55	20.75	17.18	17.05	17.25
		RB50#50	20.67	20.45	20.58	17.17	16.95	17.08
		RB100#0	20.64	20.56	20.6	17.14	17.06	17.10

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

For LTE Band7: Antenna Gain = -3.5dBi

Limit: EIRP≤33dBm

LTE Band 12

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	21.71	21.67	21.49	13.06	13.02	12.84
		RB1#3	21.79	21.67	21.59	13.14	13.02	12.94
		RB1#5	21.73	21.62	21.66	13.08	12.97	13.01
		RB3#0	22.23	22.28	22.19	13.58	13.63	13.54
		RB3#3	22.26	22.27	22.16	13.61	13.62	13.51
		RB6#0	21.31	20.88	21.33	12.66	12.23	12.68
	16QAM	RB1#0	21.41	21.18	21.75	12.76	12.53	13.10
		RB1#3	21.47	21.08	21.61	12.82	12.43	12.96
		RB1#5	21.42	21.13	21.66	12.77	12.48	13.01
		RB3#0	21.31	21.23	21.09	12.66	12.58	12.44
		RB3#3	21.25	21.28	21.13	12.60	12.63	12.48
		RB6#0	20.37	20.57	20.68	11.72	11.92	12.03
3.0	QPSK	RB1#0	21.8	21.66	21.63	13.15	13.01	12.98
		RB1#8	21.76	21.66	21.64	13.11	13.01	12.99
		RB1#14	21.78	21.63	21.59	13.13	12.98	12.94
		RB6#0	21.37	21.31	21.25	12.72	12.66	12.60
		RB6#9	21.41	21.07	21.31	12.76	12.42	12.66
		RB15#0	21.37	21.08	21.17	12.72	12.43	12.52
	16QAM	RB1#0	21.64	20.34	20.98	12.99	11.69	12.33
		RB1#8	21.02	20.19	20.93	12.37	11.54	12.28
		RB1#14	21.05	20.18	21.04	12.40	11.53	12.39
		RB6#0	20.43	20.72	20.6	11.78	12.07	11.95
		RB6#9	20.6	20.55	20.57	11.95	11.90	11.92
		RB15#0	20.33	20.28	20.64	11.68	11.63	11.99

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	21.8	21.63	21.73	13.15	12.98	13.08
		RB1#13	21.74	21.65	21.62	13.09	13.00	12.97
		RB1#24	21.68	21.69	21.61	13.03	13.04	12.96
		RB15#0	21.39	21.33	21.26	12.74	12.68	12.61
		RB15#10	21.39	21.08	21.3	12.74	12.43	12.65
		RB25#0	21.37	21.16	21.25	12.72	12.51	12.60
	16QAM	RB1#0	20.97	20.78	19.72	12.32	12.13	11.07
		RB1#13	20.93	20.57	19.66	12.28	11.92	11.01
		RB1#24	20.86	21.17	19.85	12.21	12.52	11.20
		RB15#0	20.09	20.44	20.31	11.44	11.79	11.66
		RB15#10	20.25	20.18	20.61	11.60	11.53	11.96
		RB25#0	20.35	20.4	20.67	11.70	11.75	12.02
10.0	QPSK	RB1#0	21.95	21.78	21.63	13.30	13.13	12.98
		RB1#25	21.89	21.79	21.69	13.24	13.14	13.04
		RB1#49	21.94	21.74	21.67	13.29	13.09	13.02
		RB25#0	21.36	21.37	21.08	12.71	12.72	12.43
		RB25#25	21.28	21.6	21.35	12.63	12.95	12.70
		RB50#0	21.32	21.11	21.67	12.67	12.46	13.02
	16QAM	RB1#0	21.62	20.33	20.73	12.97	11.68	12.08
		RB1#25	21.52	20.15	21.13	12.87	11.50	12.48
		RB1#49	21.43	20.17	20.75	12.78	11.52	12.10
		RB25#0	20.48	20.78	20.3	11.83	12.13	11.65
		RB25#25	20.71	20.73	20.66	12.06	12.08	12.01
		RB50#0	20.31	20.35	20.6	11.66	11.70	11.95

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)

For LTE Band12: Antenna Gain = -6.5dBi = -8.65dBd (0dBd=2.15dBi)

Limit: ERP≤34.77dBm

LTE Band 17

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	21.71	21.57	21.76	13.06	12.92	13.11
		RB1#13	21.61	21.68	21.62	12.96	13.03	12.97
		RB1#24	21.64	21.6	21.74	12.99	12.95	13.09
		RB15#0	21.29	21.62	21.28	12.64	12.97	12.63
		RB15#10	21.05	21.58	21.32	12.40	12.93	12.67
		RB25#0	21.27	21.63	21.36	12.62	12.98	12.71
	16QAM	RB1#0	20.58	20.16	19.72	11.93	11.51	11.07
		RB1#13	20.32	20.56	19.65	11.67	11.91	11.00
		RB1#24	20.36	20.24	19.8	11.71	11.59	11.15
		RB15#0	20.48	20.68	20.32	11.83	12.03	11.67
		RB15#10	20.2	20.64	20.7	11.55	11.99	12.05
		RB25#0	20.47	20.46	20.67	11.82	11.81	12.02
10.0	QPSK	RB1#0	21.97	21.73	21.65	13.32	13.08	13.00
		RB1#25	21.77	21.75	21.65	13.12	13.10	13.00
		RB1#49	21.76	21.68	21.62	13.11	13.03	12.97
		RB25#0	21.29	21.13	21.03	12.64	12.48	12.38
		RB25#25	21.29	21.26	21.18	12.64	12.61	12.53
		RB50#0	21.3	21.66	21.63	12.65	13.01	12.98
	16QAM	RB1#0	21.13	20.38	21.03	12.48	11.73	12.38
		RB1#25	21.37	20.65	21.37	12.72	12.00	12.72
		RB1#49	21.44	20.21	20.96	12.79	11.56	12.31
		RB25#0	20.62	20.4	20.33	11.97	11.75	11.68
		RB25#25	20.31	20.38	20.66	11.66	11.73	12.01
		RB50#0	20.31	20.57	20.56	11.66	11.92	11.91

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)

For LTE Band17: Antenna Gain = -6.5dBi = -8.65dBd (0dBd=2.15dBi)

Limit: ERP≤34.77dBm

LTE Band 26 (814-824MHz)

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	22.23	22.26	22.25	15.58	15.61	15.60
		RB1#3	22.21	22.19	22.35	15.56	15.54	15.70
		RB1#5	22.18	22.17	22.34	15.53	15.52	15.69
		RB3#0	22.87	22.81	22.91	16.22	16.16	16.26
		RB3#3	22.81	22.78	22.89	16.16	16.13	16.24
		RB6#0	21.75	21.74	21.94	15.10	15.09	15.29
	16QAM	RB1#0	21.56	21.57	22.04	14.91	14.92	15.39
		RB1#3	21.57	21.56	22.32	14.92	14.91	15.67
		RB1#5	21.58	21.56	22.02	14.93	14.91	15.37
		RB3#0	21.86	21.7	21.76	15.21	15.05	15.11
		RB3#3	21.84	21.83	21.92	15.19	15.18	15.27
		RB6#0	21.1	21.01	21.43	14.45	14.36	14.78
3.0	QPSK	RB1#0	22.43	22.35	22.22	15.78	15.70	15.57
		RB1#8	22.27	22.28	22.27	15.62	15.63	15.62
		RB1#14	22.36	22.25	22.2	15.71	15.60	15.55
		RB6#0	21.86	21.75	21.76	15.21	15.10	15.11
		RB6#9	21.88	21.72	21.86	15.23	15.07	15.21
		RB15#0	21.66	21.75	21.91	15.01	15.10	15.26
	16QAM	RB1#0	22.1	21.04	21.64	15.45	14.39	14.99
		RB1#8	22.12	20.87	21.68	15.47	14.22	15.03
		RB1#14	22.04	21.04	21.6	15.39	14.39	14.95
		RB6#0	21.03	21.07	20.81	14.38	14.42	14.16
		RB6#9	21.19	21.04	21.2	14.54	14.39	14.55
		RB15#0	20.91	20.87	21.29	14.26	14.22	14.64

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	22.36	22.33	22.28	15.71	15.68	15.63
		RB1#13	22.36	22.15	22.23	15.71	15.50	15.58
		RB1#24	22.36	22.18	22.38	15.71	15.53	15.73
		RB15#0	21.65	21.89	21.83	15.00	15.24	15.18
		RB15#10	21.89	21.86	21.85	15.24	15.21	15.20
		RB25#0	21.88	21.84	21.79	15.23	15.19	15.14
	16QAM	RB1#0	21.23	20.98	20.37	14.58	14.33	13.72
		RB1#13	21.19	20.88	20.34	14.54	14.23	13.69
		RB1#24	21.12	20.97	20.34	14.47	14.32	13.69
		RB15#0	20.81	20.93	20.92	14.16	14.28	14.27
		RB15#10	21.04	20.9	21.3	14.39	14.25	14.65
		RB25#0	21.16	20.76	21.66	14.51	14.11	15.01
10.0	QPSK	RB1#0	/	22.41	/	/	15.76	/
		RB1#25	/	22.33	/	/	15.68	/
		RB1#49	/	22.37	/	/	15.72	/
		RB25#0	/	21.79	/	/	15.14	/
		RB25#25	/	21.77	/	/	15.12	/
		RB50#0	/	21.92	/	/	15.27	/
	16QAM	RB1#0	/	21.32	/	/	14.67	/
		RB1#25	/	21.31	/	/	14.66	/
		RB1#49	/	21.42	/	/	14.77	/
		RB25#0	/	21.27	/	/	14.62	/
		RB25#25	/	20.95	/	/	14.30	/
		RB50#0	/	20.95	/	/	14.30	/

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)
For Band26: Antenna Gain = -4.5dBi = -6.65 dBd (0dBd=2.15dBi)
Limit: ERP ≤ 50dBm

LTE Band 26 (Cross Channel)

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	/	22.34	/	/	15.69	/
		RB1#3	/	22.31	/	/	15.66	/
		RB1#5	/	22.31	/	/	15.66	/
		RB3#0	/	21.84	/	/	15.19	/
		RB3#3	/	21.92	/	/	15.27	/
		RB6#0	/	21.84	/	/	15.19	/
	16QAM	RB1#0	/	22.03	/	/	15.38	/
		RB1#3	/	22.06	/	/	15.41	/
		RB1#5	/	21.47	/	/	14.82	/
		RB3#0	/	20.94	/	/	14.29	/
		RB3#3	/	20.84	/	/	14.19	/
		RB6#0	/	20.94	/	/	14.29	/
3.0	QPSK	RB1#0	/	22.32	/	/	15.67	/
		RB1#8	/	22.14	/	/	15.49	/
		RB1#14	/	22.12	/	/	15.47	/
		RB6#0	/	21.54	/	/	14.89	/
		RB6#9	/	21.83	/	/	15.18	/
		RB15#0	/	21.85	/	/	15.20	/
	16QAM	RB1#0	/	21.44	/	/	14.79	/
		RB1#8	/	21.34	/	/	14.69	/
		RB1#14	/	21.42	/	/	14.77	/
		RB6#0	/	20.93	/	/	14.28	/
		RB6#9	/	20.83	/	/	14.18	/
		RB15#0	/	21.29	/	/	14.64	/

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	/	22.21	/	/	15.56	/
		RB1#3	/	22.24	/	/	15.59	/
		RB1#5	/	22.27	/	/	15.62	/
		RB3#0	/	21.28	/	/	14.63	/
		RB3#3	/	21.81	/	/	15.16	/
		RB6#0	/	21.81	/	/	15.16	/
	16QAM	RB1#0	/	21.49	/	/	14.84	/
		RB1#3	/	21.34	/	/	14.69	/
		RB1#5	/	21.44	/	/	14.79	/
		RB3#0	/	20.91	/	/	14.26	/
		RB3#3	/	21.24	/	/	14.59	/
		RB6#0	/	20.88	/	/	14.23	/
10.0	QPSK	RB1#0	/	22.19	/	/	15.54	/
		RB1#8	/	22.13	/	/	15.48	/
		RB1#14	/	21.93	/	/	15.28	/
		RB6#0	/	22.07	/	/	15.42	/
		RB6#9	/	22.29	/	/	15.64	/
		RB15#0	/	22.14	/	/	15.49	/
	16QAM	RB1#0	/	22.13	/	/	15.48	/
		RB1#8	/	21.84	/	/	15.19	/
		RB1#14	/	21.95	/	/	15.30	/
		RB6#0	/	21.69	/	/	15.04	/
		RB6#9	/	21.77	/	/	15.12	/
		RB15#0	/	20.89	/	/	14.24	/

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
15.0	QPSK	RB1#0	22.18	22.23	/	15.53	15.58	/
		RB1#13	22.04	22.16	/	15.39	15.51	/
		RB1#24	22.08	22.21	/	15.43	15.56	/
		RB15#0	22.06	21.97	/	15.41	15.32	/
		RB15#10	22.17	21.96	/	15.52	15.31	/
		RB25#0	22.04	21.81	/	15.39	15.16	/
	16QAM	RB1#0	22.19	22.18	/	15.54	15.53	/
		RB1#13	22.19	22.04	/	15.54	15.39	/
		RB1#24	21.94	22.16	/	15.29	15.51	/
		RB15#0	21.98	21.89	/	15.33	15.24	/
		RB15#10	21.57	21.95	/	14.92	15.30	/
		RB25#0	21.41	21.47	/	14.76	14.82	/

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)
 For Band26: Antenna Gain = -4.5dBi = -6.65 dBd (0dBd=2.15dBi)
 Limit: ERP ≤ 38.45dBm

LTE Band 26 (824-849MHz)

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	22.31	22.31	22.39	15.66	15.66	15.74
		RB1#3	22.32	22.32	22.32	15.67	15.67	15.67
		RB1#5	22.35	22.39	22.3	15.70	15.74	15.65
		RB3#0	22.94	22.91	22.9	16.29	16.26	16.25
		RB3#3	22.89	22.92	22.92	16.24	16.27	16.27
		RB6#0	21.81	21.89	21.77	15.16	15.24	15.12
	16QAM	RB1#0	20.94	20.86	20.99	14.29	14.21	14.34
		RB1#3	20.92	20.99	21.05	14.27	14.34	14.40
		RB1#5	20.93	21.01	21.06	14.28	14.36	14.41
		RB3#0	21.91	21.93	21.85	15.26	15.28	15.20
		RB3#3	21.94	21.95	21.76	15.29	15.30	15.11
		RB6#0	20.97	21.44	21.04	14.32	14.79	14.39
3.0	QPSK	RB1#0	22.47	22.21	22.31	15.82	15.56	15.66
		RB1#8	22.46	22.25	22.3	15.81	15.60	15.65
		RB1#14	22.49	22.33	22.23	15.84	15.68	15.58
		RB6#0	21.8	21.75	21.82	15.15	15.10	15.17
		RB6#9	21.98	21.84	21.63	15.33	15.19	14.98
		RB15#0	21.82	21.85	21.85	15.17	15.20	15.20
	16QAM	RB1#0	21.37	20.95	21.48	14.72	14.30	14.83
		RB1#8	21.3	20.86	21.48	14.65	14.21	14.83
		RB1#14	21.46	20.9	21.4	14.81	14.25	14.75
		RB6#0	21.08	21.1	20.86	14.43	14.45	14.21
		RB6#9	21.45	21.44	20.94	14.80	14.79	14.29
		RB15#0	20.85	21.3	20.72	14.20	14.65	14.07

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	22.43	22.35	22.35	15.78	15.70	15.70
		RB1#13	22.48	22.26	22.29	15.83	15.61	15.64
		RB1#24	22.55	22.24	22.24	15.90	15.59	15.59
		RB15#0	21.75	21.78	21.84	15.10	15.13	15.19
		RB15#10	21.85	21.95	21.82	15.20	15.30	15.17
		RB25#0	21.88	21.9	21.83	15.23	15.25	15.18
	16QAM	RB1#0	21.15	20.89	20.39	14.50	14.24	13.74
		RB1#13	21.28	20.87	20.42	14.63	14.22	13.77
		RB1#24	21.3	20.91	20.39	14.65	14.26	13.74
		RB15#0	20.68	20.89	21.25	14.03	14.24	14.60
		RB15#10	21.11	21.32	20.79	14.46	14.67	14.14
		RB25#0	21.15	21.17	20.86	14.50	14.52	14.21
10.0	QPSK	RB1#0	22.41	22.45	22.22	15.76	15.80	15.57
		RB1#25	22.44	22.29	22.22	15.79	15.64	15.57
		RB1#49	22.32	22.43	22.19	15.67	15.78	15.54
		RB25#0	21.87	21.7	21.84	15.22	15.05	15.19
		RB25#25	21.95	21.75	21.77	15.30	15.10	15.12
		RB50#0	21.91	21.87	21.96	15.26	15.22	15.31
	16QAM	RB1#0	21.94	20.85	21.39	15.29	14.20	14.74
		RB1#25	22.1	20.8	21.51	15.45	14.15	14.86
		RB1#49	21.94	20.8	21.41	15.29	14.15	14.76
		RB25#0	21.22	21.02	20.81	14.57	14.37	14.16
		RB25#25	20.99	20.98	20.78	14.34	14.33	14.13
		RB50#0	20.96	21.35	20.78	14.31	14.70	14.13

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
15.0	QPSK	RB1#0	22.37	22.39	22.22	15.72	15.74	15.57
		RB1#13	22.33	22.16	22.27	15.68	15.51	15.62
		RB1#24	22.35	22.13	22.24	15.70	15.48	15.59
		RB15#0	21.86	21.72	21.84	15.21	15.07	15.19
		RB15#10	21.79	21.87	21.8	15.14	15.22	15.15
		RB25#0	21.86	21.89	21.82	15.21	15.24	15.17
	16QAM	RB1#0	22.03	21.45	21.49	15.38	14.80	14.84
		RB1#13	22.05	21.3	21.34	15.40	14.65	14.69
		RB1#24	21.98	21.43	21.43	15.33	14.78	14.78
		RB15#0	20.96	20.98	20.91	14.31	14.33	14.26
		RB15#10	20.85	20.81	21.24	14.20	14.16	14.59
		RB25#0	20.92	21.28	20.88	14.27	14.63	14.23

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)
For Band26: Antenna Gain = -4.5dBi = -6.65 dBd (0dBd=2.15dBi)
Limit: ERP ≤ 38.45dBm

LTE Band 38

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	21.30	21.13	20.8	17.80	17.63	17.30
		RB1#13	21.29	21.08	20.79	17.79	17.58	17.29
		RB1#24	21.37	21.1	20.72	17.87	17.60	17.22
		RB15#0	20.78	20.59	20.38	17.28	17.09	16.88
		RB15#10	20.78	20.59	20.35	17.28	17.09	16.85
		RB25#0	20.75	20.54	20.32	17.25	17.04	16.82
	16QAM	RB1#0	20.49	20.39	19.85	16.99	16.89	16.35
		RB1#13	20.41	20.37	19.79	16.91	16.87	16.29
		RB1#24	20.09	20.35	19.9	16.59	16.85	16.40
		RB15#0	19.92	19.77	19.63	16.42	16.27	16.13
		RB15#10	19.92	19.62	19.61	16.42	16.12	16.11
		RB25#0	19.96	19.74	19.33	16.46	16.24	15.83
10.0	QPSK	RB1#0	21.53	21.12	21.12	18.03	17.62	17.62
		RB1#25	21.45	21.04	21.05	17.95	17.54	17.55
		RB1#49	21.47	21.03	20.96	17.97	17.53	17.46
		RB25#0	20.87	20.65	20.46	17.37	17.15	16.96
		RB25#25	20.74	20.47	20.43	17.24	16.97	16.93
		RB50#0	20.8	20.51	20.31	17.30	17.01	16.81
	16QAM	RB1#0	20.66	19.97	20.05	17.16	16.47	16.55
		RB1#25	20.86	19.98	20.02	17.36	16.48	16.52
		RB1#49	20.49	19.82	19.95	16.99	16.32	16.45
		RB25#0	20.01	19.99	19.48	16.51	16.49	15.98
		RB25#25	19.97	19.91	19.43	16.47	16.41	15.93
		RB50#0	19.94	19.57	19.55	16.44	16.07	16.05

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
15.0	QPSK	RB1#0	21.57	21.14	21.11	18.07	17.64	17.61
		RB1#38	21.46	21.03	21.08	17.96	17.53	17.58
		RB1#74	21.43	20.98	20.92	17.93	17.48	17.42
		RB36#0	20.74	20.64	20.55	17.24	17.14	17.05
		RB36#39	20.76	20.46	20.48	17.26	16.96	16.98
		RB75#0	20.73	20.46	20.5	17.23	16.96	17.00
	16QAM	RB1#0	20.65	19.56	20.02	17.15	16.06	16.52
		RB1#38	20.49	19.39	20.09	16.99	15.89	16.59
		RB1#74	20.42	19.47	19.91	16.92	15.97	16.41
		RB36#0	19.85	19.77	19.58	16.35	16.27	16.08
		RB36#39	19.71	19.75	19.51	16.21	16.25	16.01
		RB75#0	19.86	19.68	19.5	16.36	16.18	16.00
20.0	QPSK	RB1#0	21.54	21.51	20.99	18.04	18.01	17.49
		RB1#50	21.5	21.44	20.93	18.00	17.94	17.43
		RB1#99	21.3	21.33	20.78	17.80	17.83	17.28
		RB50#0	20.76	20.77	20.42	17.26	17.27	16.92
		RB50#50	20.71	20.66	20.47	17.21	17.16	16.97
		RB100#0	20.74	20.71	20.54	17.24	17.21	17.04
	16QAM	RB1#0	20.42	21.06	20.66	16.92	17.56	17.16
		RB1#50	20.26	20.98	20.68	16.76	17.48	17.18
		RB1#99	20.13	20.83	20.53	16.63	17.33	17.03
		RB50#0	20.11	19.9	19.75	16.61	16.40	16.25
		RB50#50	19.97	19.73	19.71	16.47	16.23	16.21
		RB100#0	19.86	19.68	19.7	16.36	16.18	16.20

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

For LTE Band38: Antenna Gain = -3.5dBi

Limit: EIRP ≤ 33dBm

LTE Band 41

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	21.39	21.25	20.57	17.89	17.75	17.07
		RB1#13	21.46	21.19	20.57	17.96	17.69	17.07
		RB1#24	21.45	21.07	20.63	17.95	17.57	17.13
		RB15#0	20.84	20.55	20.08	17.34	17.05	16.58
		RB15#10	20.89	20.55	20.2	17.39	17.05	16.70
		RB25#0	20.82	20.5	20.2	17.32	17.00	16.70
	16QAM	RB1#0	20.12	20.47	19.59	16.62	16.97	16.09
		RB1#13	20.49	20.35	19.54	16.99	16.85	16.04
		RB1#24	20.62	20.45	19.57	17.12	16.95	16.07
		RB15#0	20.03	19.76	19.45	16.53	16.26	15.95
		RB15#10	20.03	19.74	19.49	16.53	16.24	15.99
		RB25#0	20.14	19.74	19.12	16.64	16.24	15.62
10.0	QPSK	RB1#0	21.45	21.13	20.82	17.95	17.63	17.32
		RB1#25	21.47	21.07	20.71	17.97	17.57	17.21
		RB1#49	21.53	21.04	20.78	18.03	17.54	17.28
		RB25#0	20.9	20.68	20.14	17.40	17.18	16.64
		RB25#25	20.94	20.53	20.19	17.44	17.03	16.69
		RB50#0	20.74	20.6	20.16	17.24	17.10	16.66
	16QAM	RB1#0	20.53	20.1	19.84	17.03	16.60	16.34
		RB1#25	20.55	20.1	19.74	17.05	16.60	16.24
		RB1#49	20.54	19.91	19.82	17.04	16.41	16.32
		RB25#0	20.08	19.96	19.26	16.58	16.46	15.76
		RB25#25	20.1	19.94	19.21	16.60	16.44	15.71
		RB50#0	20.06	19.67	19.29	16.56	16.17	15.79

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
15.0	QPSK	RB1#0	21.42	21.2	20.9	17.92	17.70	17.40
		RB1#38	21.43	21.06	20.9	17.93	17.56	17.40
		RB1#74	21.5	20.97	20.9	18.00	17.47	17.40
		RB36#0	20.84	20.74	20.2	17.34	17.24	16.70
		RB36#39	20.9	20.52	20.15	17.40	17.02	16.65
		RB75#0	20.79	20.52	20.28	17.29	17.02	16.78
	16QAM	RB1#0	20.58	19.53	19.87	17.08	16.03	16.37
		RB1#38	20.84	19.33	20.01	17.34	15.83	16.51
		RB1#74	20.84	19.47	19.84	17.34	15.97	16.34
		RB36#0	19.94	19.95	19.29	16.44	16.45	15.79
		RB36#39	19.94	19.78	19.42	16.44	16.28	15.92
		RB75#0	20.05	19.72	19.32	16.55	16.22	15.82
20.0	QPSK	RB1#0	21.37	21.59	20.9	17.87	18.09	17.40
		RB1#50	21.5	21.41	20.8	18.00	17.91	17.30
		RB1#99	21.55	21.31	20.82	18.05	17.81	17.32
		RB50#0	20.93	20.74	20.33	17.43	17.24	16.83
		RB50#50	20.97	20.71	20.2	17.47	17.21	16.70
		RB100#0	20.91	20.72	20.33	17.41	17.22	16.83
	16QAM	RB1#0	20.37	21.01	20.67	16.87	17.51	17.17
		RB1#50	20.4	20.96	20.66	16.90	17.46	17.16
		RB1#99	20.34	20.83	20.54	16.84	17.33	17.04
		RB50#0	20.1	19.85	19.67	16.60	16.35	16.17
		RB50#50	20.33	19.7	19.51	16.83	16.20	16.01
		RB100#0	19.96	19.69	19.48	16.46	16.19	15.98

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

For LTE Band41: Antenna Gain = -3.5dBi

Limit: EIRP ≤ 33dBm

LTE Band 66:

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	22.05	22.15	22.02	17.85	17.95	17.82
		RB1#3	22.31	22.19	22.09	18.11	17.99	17.89
		RB1#5	22.04	22.35	22.14	17.84	18.15	17.94
		RB3#0	22.48	22.66	22.73	18.28	18.46	18.53
		RB3#3	22.55	22.7	22.62	18.35	18.50	18.42
		RB6#0	21.59	21.54	21.59	17.39	17.34	17.39
	16QAM	RB1#0	21.78	21.06	21.89	17.58	16.86	17.69
		RB1#3	21.76	21.05	21.86	17.56	16.85	17.66
		RB1#5	21.83	21.07	21.91	17.63	16.87	17.71
		RB3#0	21.43	21.57	21.71	17.23	17.37	17.51
		RB3#3	21.31	21.53	21.7	17.11	17.33	17.50
		RB6#0	20.72	20.96	20.91	16.52	16.76	16.71
3.0	QPSK	RB1#0	22.08	22.26	22.09	17.88	18.06	17.89
		RB1#8	22.05	22.28	22.08	17.85	18.08	17.88
		RB1#14	22.11	22.23	21.98	17.91	18.03	17.78
		RB6#0	21.6	21.51	21.6	17.40	17.31	17.40
		RB6#9	21.73	21.48	21.59	17.53	17.28	17.39
		RB15#0	21.49	21.5	21.73	17.29	17.30	17.53
	16QAM	RB1#0	21.88	21.07	21.61	17.68	16.87	17.41
		RB1#8	21.91	21.15	21.52	17.71	16.95	17.32
		RB1#14	21.89	20.97	21.54	17.69	16.77	17.34
		RB6#0	20.75	20.95	20.63	16.55	16.75	16.43
		RB6#9	20.82	20.93	20.64	16.62	16.73	16.44
		RB15#0	20.65	20.71	20.88	16.45	16.51	16.68

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	22.13	22.01	22.15	17.93	17.81	17.95
		RB1#13	22.16	21.97	22.09	17.96	17.77	17.89
		RB1#24	22.19	21.99	22.03	17.99	17.79	17.83
		RB15#0	21.61	21.52	21.63	17.41	17.32	17.43
		RB15#10	21.48	21.58	21.66	17.28	17.38	17.46
		RB25#0	21.47	21.59	21.69	17.27	17.39	17.49
	16QAM	RB1#0	21.26	20.76	20.27	17.06	16.56	16.07
		RB1#13	21.28	20.78	20.25	17.08	16.58	16.05
		RB1#24	21.28	20.8	20.27	17.08	16.60	16.07
		RB15#0	20.49	20.7	20.83	16.29	16.50	16.63
		RB15#10	20.55	20.74	20.81	16.35	16.54	16.61
		RB25#0	20.7	20.59	20.78	16.50	16.39	16.58
10.0	QPSK	RB1#0	22.14	22.2	22.07	17.94	18.00	17.87
		RB1#25	22.15	22.1	22.03	17.95	17.90	17.83
		RB1#49	22.17	22.11	22.36	17.97	17.91	18.16
		RB25#0	21.47	21.47	21.61	17.27	17.27	17.41
		RB25#25	21.52	21.51	21.65	17.32	17.31	17.45
		RB50#0	21.57	21.5	21.57	17.37	17.30	17.37
	16QAM	RB1#0	21.31	20.66	21.38	17.11	16.46	17.18
		RB1#25	21.32	20.74	21.35	17.12	16.54	17.15
		RB1#49	21.24	20.65	21.32	17.04	16.45	17.12
		RB25#0	20.76	20.77	20.71	16.56	16.57	16.51
		RB25#25	20.76	20.78	20.71	16.56	16.58	16.51
		RB50#0	20.7	20.68	20.71	16.50	16.48	16.51

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
15.0	QPSK	RB1#0	22.23	22.21	21.87	18.03	18.01	17.67
		RB1#38	22.17	22.13	21.84	17.97	17.93	17.64
		RB1#74	22.2	22.36	21.83	18.00	18.16	17.63
		RB36#0	21.49	21.46	21.42	17.29	17.26	17.22
		RB36#39	21.53	21.66	21.49	17.33	17.46	17.29
		RB75#0	21.69	21.51	21.44	17.49	17.31	17.24
	16QAM	RB1#0	21.3	21.44	21.21	17.10	17.24	17.01
		RB1#38	21.32	21.44	21.24	17.12	17.24	17.04
		RB1#74	21.26	21.44	21.24	17.06	17.24	17.04
		RB36#0	20.66	20.61	20.63	16.46	16.41	16.43
		RB36#39	20.7	20.69	20.66	16.50	16.49	16.46
		RB75#0	20.75	20.65	20.62	16.55	16.45	16.42
20.0	QPSK	RB1#0	21.82	21.88	21.56	17.62	17.68	17.36
		RB1#50	21.9	21.78	21.75	17.70	17.58	17.55
		RB1#99	21.81	21.83	21.61	17.61	17.63	17.41
		RB50#0	20.76	21.07	21.15	16.56	16.87	16.95
		RB50#50	20.56	21.02	21.01	16.36	16.82	16.81
		RB100#0	20.59	21.14	20.99	16.39	16.94	16.79
	16QAM	RB1#0	20.48	21.18	21.5	16.28	16.98	17.30
		RB1#50	20.76	21.25	21.65	16.56	17.05	17.45
		RB1#99	20.81	20.46	21.61	16.61	16.26	17.41
		RB50#0	20.43	20.06	20.47	16.23	15.86	16.27
		RB50#50	20.42	20.17	20.24	16.22	15.97	16.04
		RB100#0	20.23	20.13	19.89	16.03	15.93	15.69

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

For LTE Band 66: Antenna Gain = -4.2dBi

Limit: EIRP ≤ 30dBm

Peak-to-average ratio (PAR)**Cellular Band 850**

Mode	Channel	PAR (dB)	Limit (dB)
GSM	Low	9.29	13
	Middle	8.75	13
	High	9.78	13

Mode	Channel	PAR (dB)	Limit (dB)
EGPRS	Low	11.47	13
	Middle	9.42	13
	High	10.35	13

WCDMA Band 5

Mode	Channel	PAR (dB)	Limit (dB)
RMC (BPSK)	Low	2.92	13
	Middle	2.88	13
	High	2.95	13
HSDPA (16QAM)	Low	3.65	13
	Middle	3.62	13
	High	3.75	13
HSUPA (BPSK)	Low	3.56	13
	Middle	5.69	13
	High	3.69	13
HSPA+	Low	3.72	13
	Middle	3.63	13
	High	3.64	13

PCS Band 1900

Mode	Channel	PAR (dB)	Limit (dB)
GSM	Low	9.52	13
	Middle	9.10	13
	High	9.74	13

Mode	Channel	PAR (dB)	Limit (dB)
EGPRS	Low	10.45	13
	Middle	9.71	13
	High	8.53	13

WCDMA Band 2

Mode	Channel	PAR (dB)	Limit (dB)
RMC (BPSK)	Low	2.88	13
	Middle	2.98	13
	High	2.69	13
HSDPA (16QAM)	Low	4.49	13
	Middle	4.52	13
	High	4.42	13
HSUPA (BPSK)	Low	4.68	13
	Middle	5.13	13
	High	4.29	13
HSPA+	Low	4.31	13
	Middle	4.37	13
	High	4.42	13

AWS Band 4

Mode	Channel	PAR (dB)	Limit (dB)
RMC (BPSK)	Low	3.08	13
	Middle	3.04	13
	High	3.11	13
HSDPA (16QAM)	Low	3.81	13
	Middle	3.88	13
	High	3.94	13
HSUPA (BPSK)	Low	3.78	13
	Middle	3.78	13
	High	3.91	13
HSPA+	Low	3.81	13
	Middle	3.85	13
	High	3.94	13

LTE Band 2**20MHz Bandwidth**

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	5.73	5.25	5.98	13	Pass
QPSK (100RB Size)	5.42	5.30	5.22	13	Pass
16QAM (1RB Size)	5.34	6.41	7.25	13	Pass
16QAM (100RB Size)	6.37	6.35	6.02	13	Pass

LTE Band 4**20MHz Bandwidth**

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	5.61	6.03	6.12	13	Pass
QPSK (100RB Size)	5.48	5.54	5.38	13	Pass
16QAM (1RB Size)	6.20	6.91	7.44	13	Pass
16QAM (100RB Size)	6.42	6.46	6.32	13	Pass

LTE Band 5**10MHz Bandwidth**

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	5.87	5.87	6.03	13	Pass
QPSK (50RB Size)	6.00	6.05	6.06	13	Pass
16QAM (1RB Size)	6.16	6.04	6.03	13	Pass
16QAM (50RB Size)	6.05	5.95	6.12	13	Pass

LTE Band 7**20MHz Bandwidth**

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	5.91	6.27	5.68	13	Pass
QPSK (100RB Size)	6.35	5.95	6.17	13	Pass
16QAM (1RB Size)	5.84	6.21	5.81	13	Pass
16QAM (100RB Size)	6.01	5.83	6.01	13	Pass

LTE Band 12**10MHz Bandwidth**

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	6.02	6.01	6.47	13	Pass
QPSK (50RB Size)	6.08	5.71	6.22	13	Pass
16QAM (1RB Size)	6.40	5.92	6.16	13	Pass
16QAM (50RB Size)	6.00	5.90	6.17	13	Pass

LTE Band 17**10MHz Bandwidth**

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	5.83	6.28	5.82	13	Pass
QPSK (50RB Size)	6.38	6.06	5.96	13	Pass
16QAM (1RB Size)	6.00	6.04	6.39	13	Pass
16QAM (50RB Size)	6.00	6.46	6.11	13	Pass

LTE Band 26 (814-824MHz)**10MHz Bandwidth**

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	/	4.03	/	13	Pass
QPSK (50RB Size)	/	5.13	/	13	Pass
16QAM (1RB Size)	/	5.13	/	13	Pass
16QAM (50RB Size)	/	6.06	/	13	Pass

LTE Band 26 (824-849MHz)**15MHz Bandwidth**

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	5.71	5.79	6.03	13	Pass
QPSK (75RB Size)	5.85	5.95	5.98	13	Pass
16QAM (1RB Size)	6.21	5.97	6.21	13	Pass
16QAM (75RB Size)	6.19	6.13	6.08	13	Pass

LTE Band 38**20MHz Bandwidth**

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	6.03	6.19	6.27	13	Pass
QPSK (100RB Size)	6.38	6.26	6.02	13	Pass
16QAM (1RB Size)	6.15	6.32	6.18	13	Pass
16QAM (100RB Size)	6.15	5.92	6.3	13	Pass

LTE Band 41**20MHz Bandwidth**

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	5.81	6.23	6.04	13	Pass
QPSK (100RB Size)	5.96	5.78	6.33	13	Pass
16QAM (1RB Size)	5.9	6.09	6.31	13	Pass
16QAM (100RB Size)	6.27	6.02	6.04	13	Pass

LTE Band 66**20MHz Bandwidth**

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	6.18	5.91	6.02	13	Pass
QPSK (100RB Size)	5.97	5.87	6.07	13	Pass
16QAM (1RB Size)	6.45	5.69	6.04	13	Pass
16QAM (100RB Size)	5.99	6.35	6.3	13	Pass

FCC §2.1049, §22.917, §22.905 & §24.238&§27.53 &§90.209- OCCUPIED BANDWIDTH

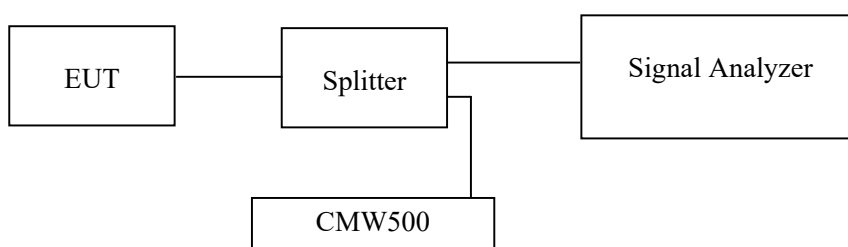
Applicable Standard

FCC 47 §2.1049, §22.917, §22.905, §24.238, §27.53 and §90.209.

Test Procedure

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.



Note: the worst path loss (cable loss and splitter inset loss) among the test frequency range has included in plot.

Test Data

Environmental Conditions

Temperature:	27.5~28.4 °C
Relative Humidity:	48.2~52.6 %
ATM Pressure:	101.0 kPa

The testing was performed by Jacob Huang from 2023-05-26 to 2023-06-06.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the following tables and plots.

Cellular Band (Part 22H)

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
GSM(GMSK)	128	824.2	240	318
	190	836.6	241	316
	251	848.8	243	317

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
EDGE(8PSK)	128	824.2	242	315
	190	836.6	243	319
	251	848.8	243	312

	Frequency (MHz)	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
RMC	826.4	4.140	4.710
	836.6	4.155	4.695
	846.6	4.155	4.695
HSDPA	826.4	4.140	4.680
	836.6	4.155	4.695
	846.6	4.155	4.695
HSUPA	826.4	4.140	4.710
	836.6	4.155	4.710
	846.6	4.155	4.695

PCS Band (Part 24E)

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
GSM(GMSK)	512	1850.2	243	319
	661	1880.0	242	318
	810	1909.8	244	316

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
EDGE(8PSK)	512	1850.2	244	323
	661	1880.0	250	319
	810	1909.8	244	317

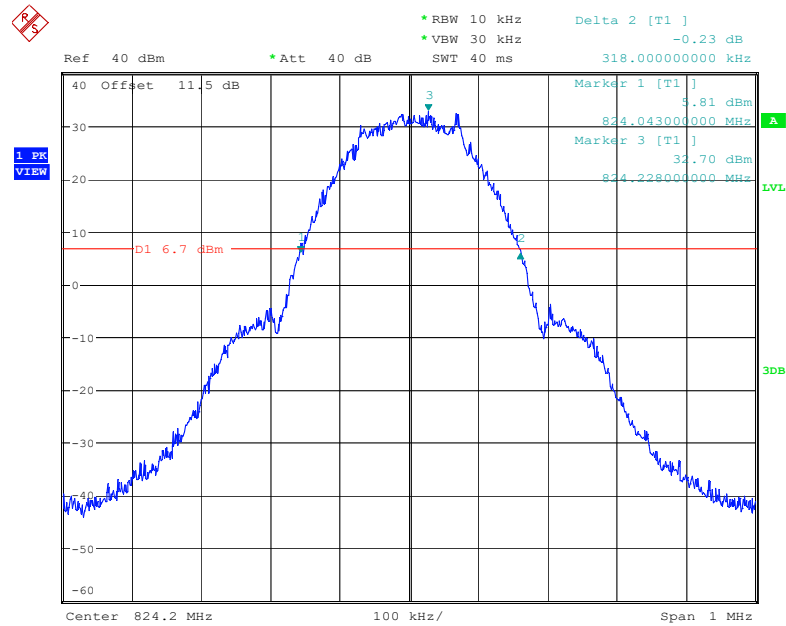
	Frequency (MHz)	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
RMC	1852.4	4.155	4.695
	1880.0	4.155	4.695
	1907.6	4.140	4.695
HSDPA	1852.4	4.155	4.680
	1880.0	4.155	4.695
	1907.6	4.170	4.695
HSUPA	1852.4	4.155	4.680
	1880.0	4.155	4.695
	1907.6	4.200	4.710

AWS Band (Part 27)

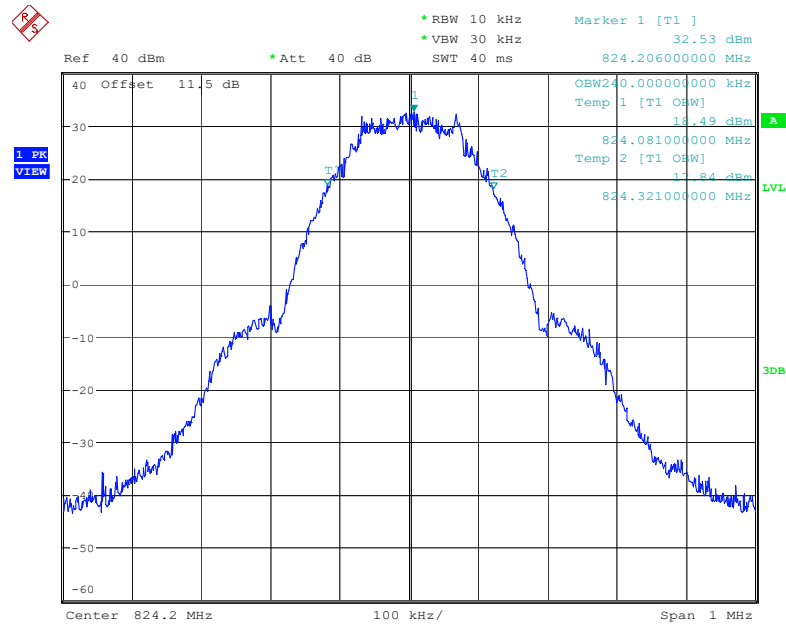
	Frequency (MHz)	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
RMC	1712.4	4.140	4.695
	1732.6	4.140	4.695
	1752.6	4.155	4.695
HSDPA	1712.4	4.155	4.680
	1732.6	4.140	4.680
	1752.6	4.155	4.695
HSUPA	1712.4	4.155	4.695
	1732.6	4.140	4.680
	1752.6	4.140	4.710

Cellular Band (Part 22H)

26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, Low channel

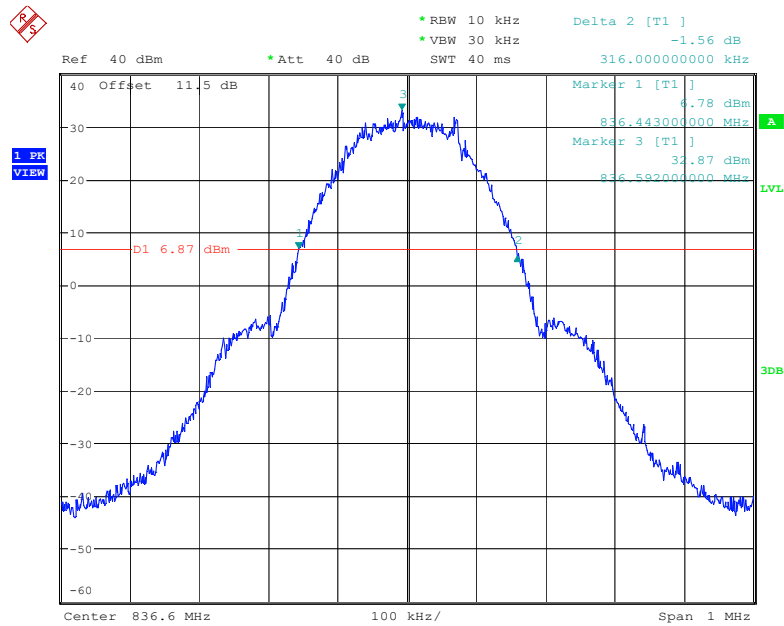


Date: 29.MAY.2023 13:10:11

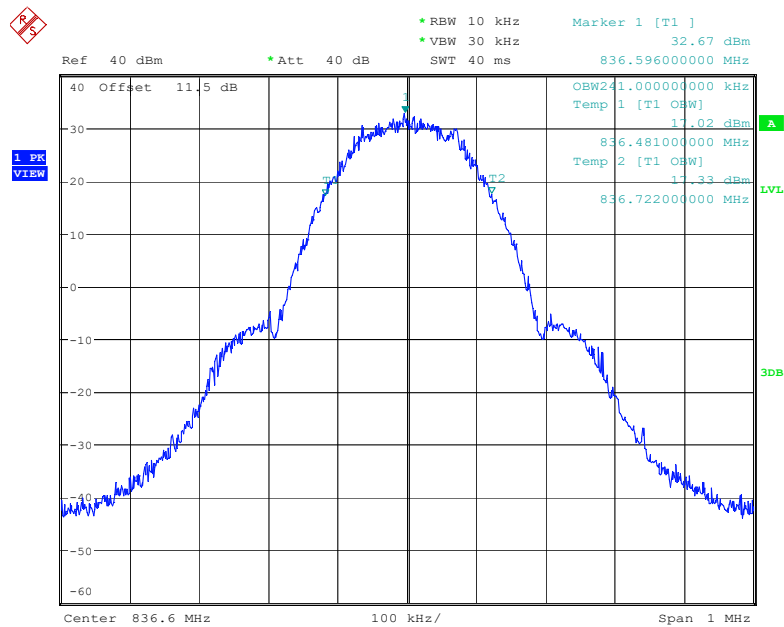


Date: 29.MAY.2023 13:09:30

26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, Middle channel

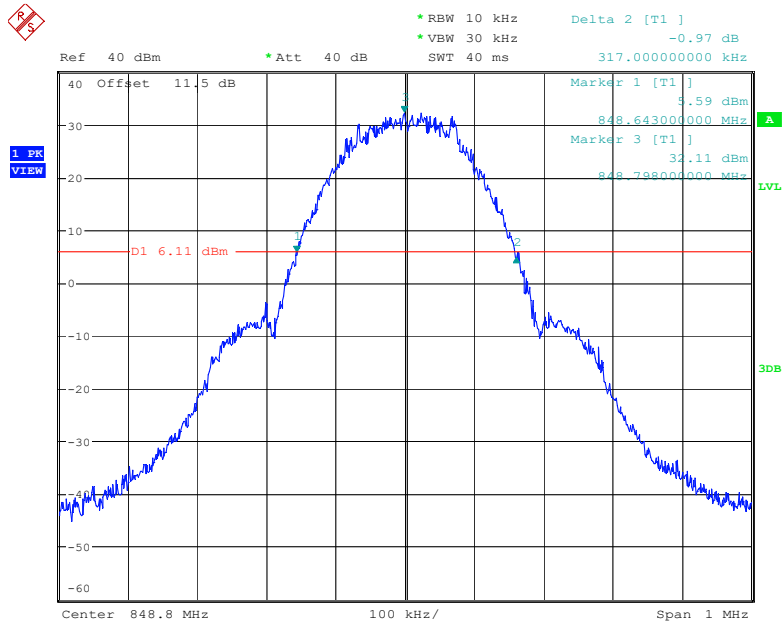


Date: 29.MAY.2023 13:19:08

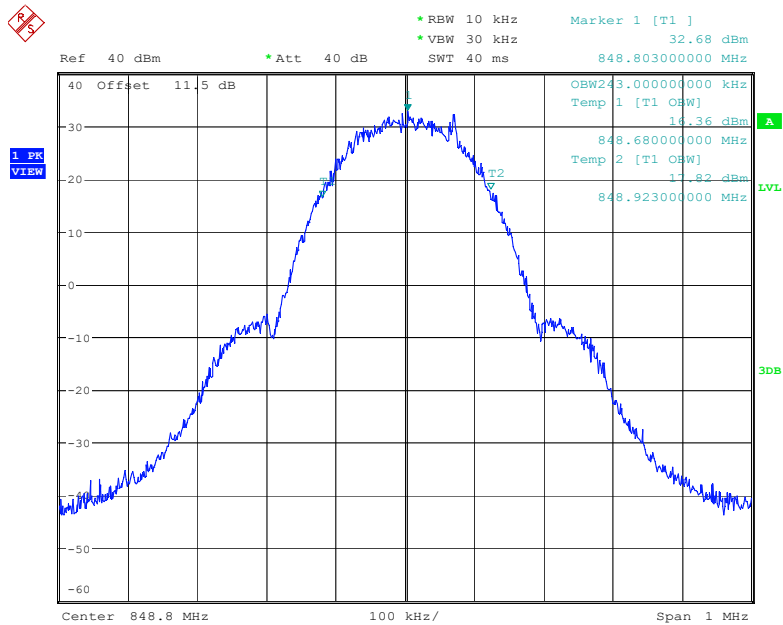


Date: 29.MAY.2023 13:18:16

26 dB Emissions &99% Occupied Bandwidth for GSM (GMSK) Mode, High channel

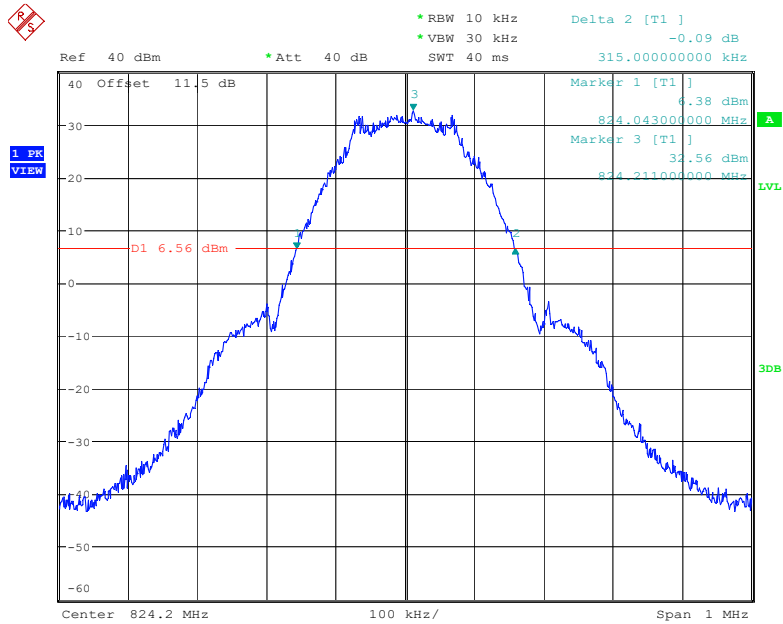


Date: 29.MAY.2023 13:24:14

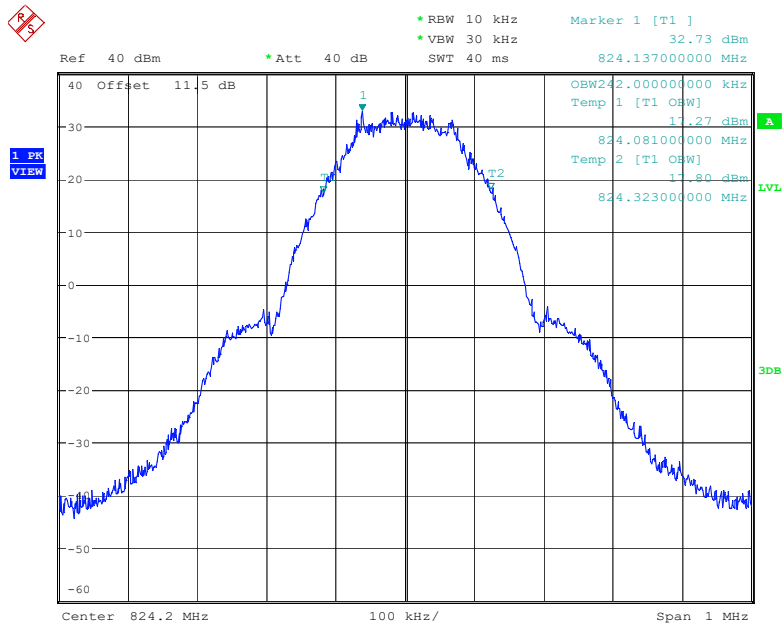


Date: 29.MAY.2023 13:23:32

26 dB Emissions &99% Occupied Bandwidth for EGPRS (8PSK) Mode, Low channel

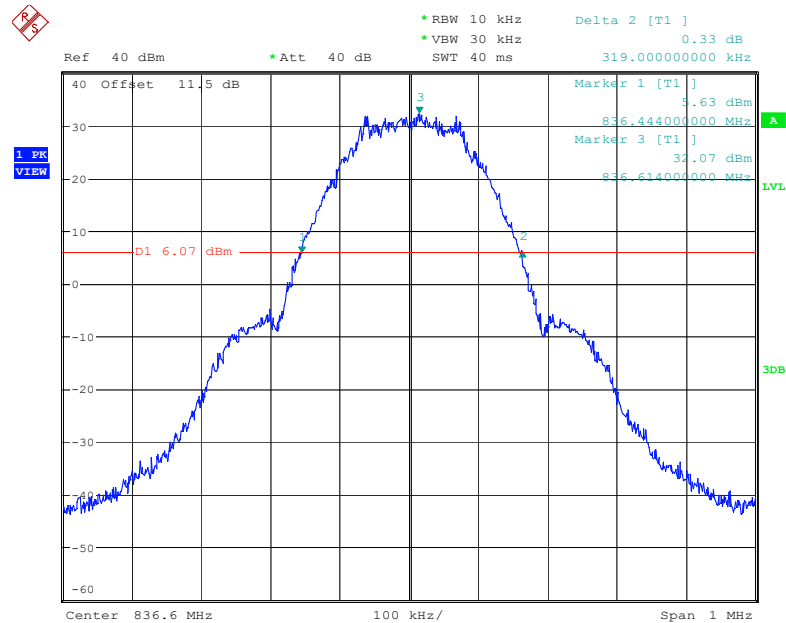


Date: 29.MAY.2023 14:14:15

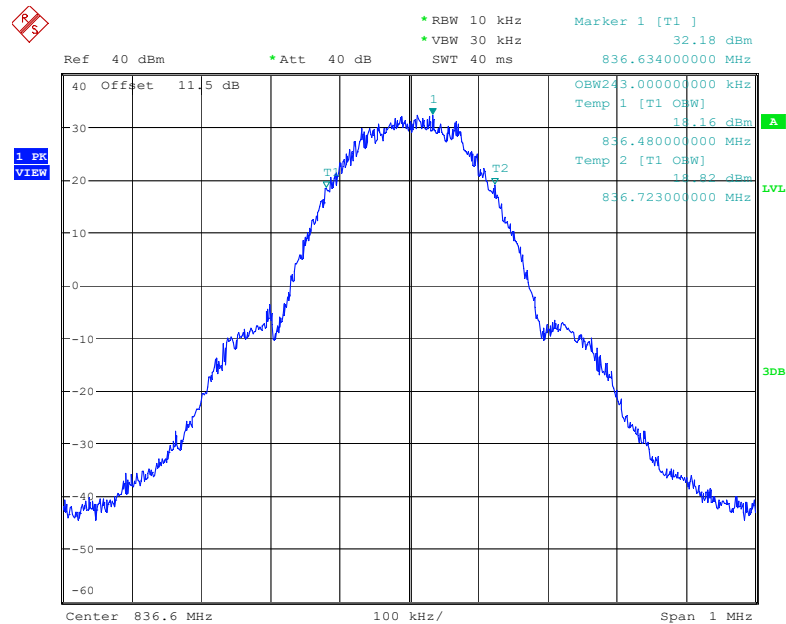


Date: 29.MAY.2023 14:13:24

26 dB Emissions &99% Occupied Bandwidth for EGPRS (8PSK) Mode, Middle channel

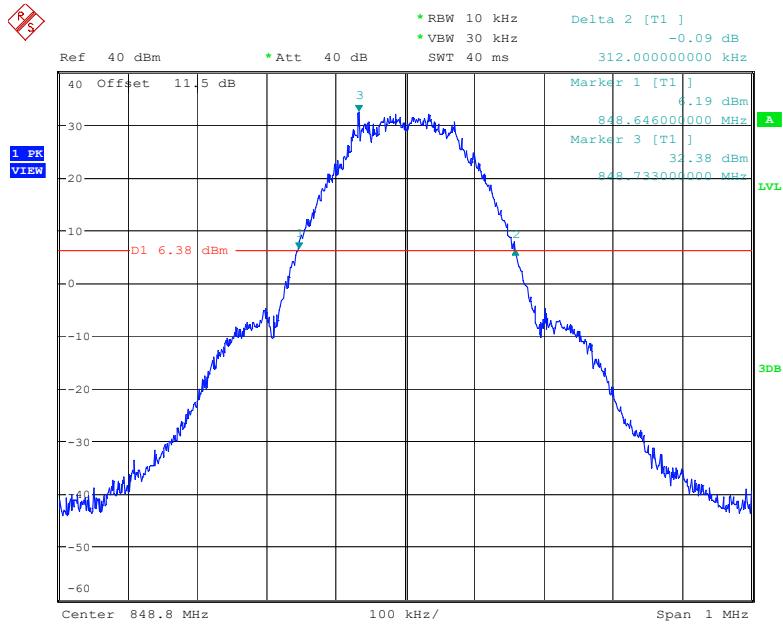


Date: 29.MAY.2023 14:10:43

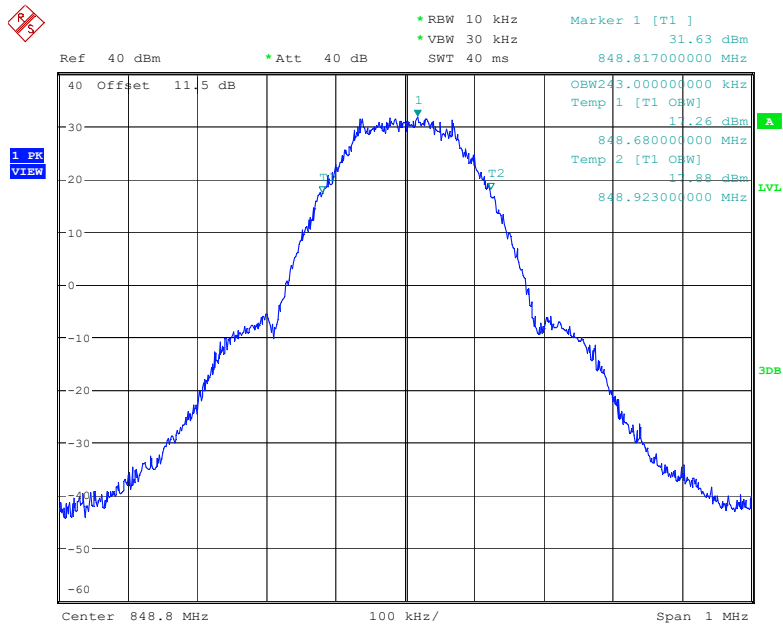


Date: 29.MAY.2023 14:09:51

26 dB Emissions &99% Occupied Bandwidth for EGPRS (8PSK) Mode, High channel

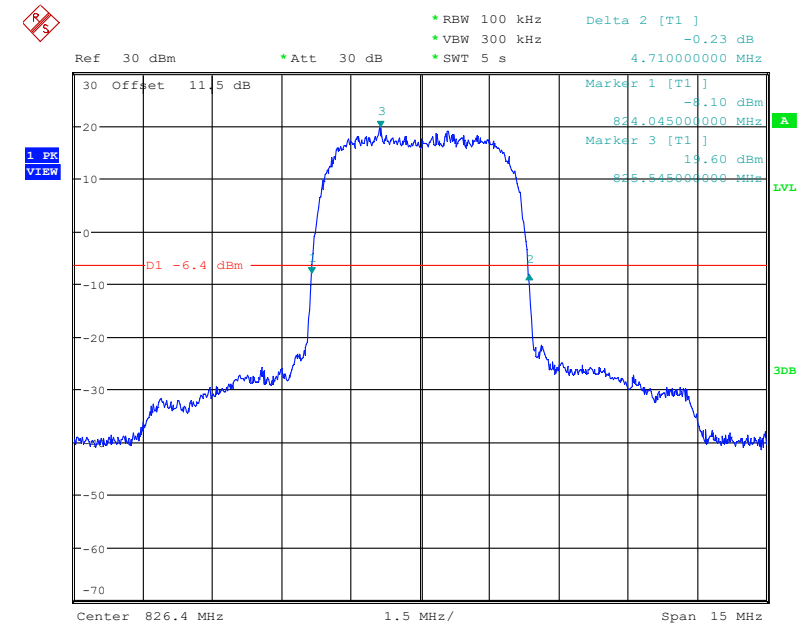


Date: 29.MAY.2023 14:20:58

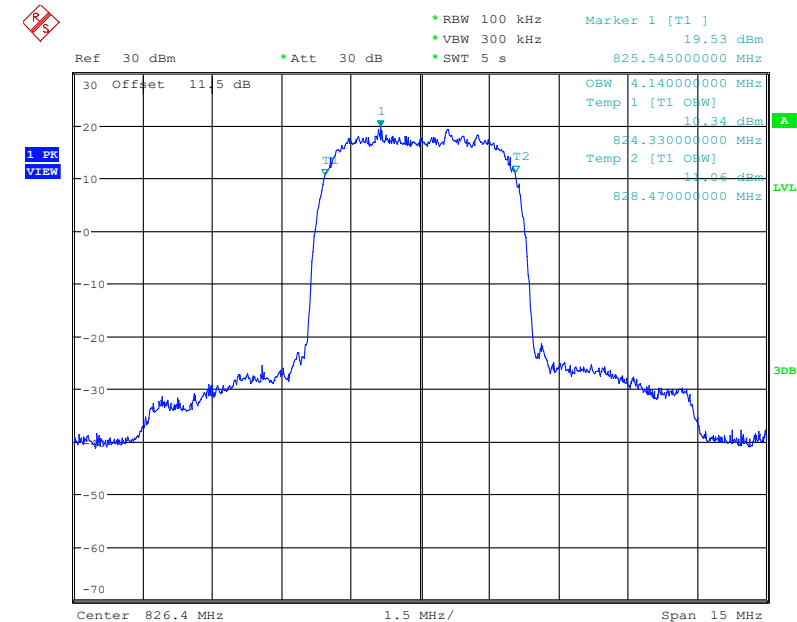


Date: 29.MAY.2023 14:20:16

26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Low channel

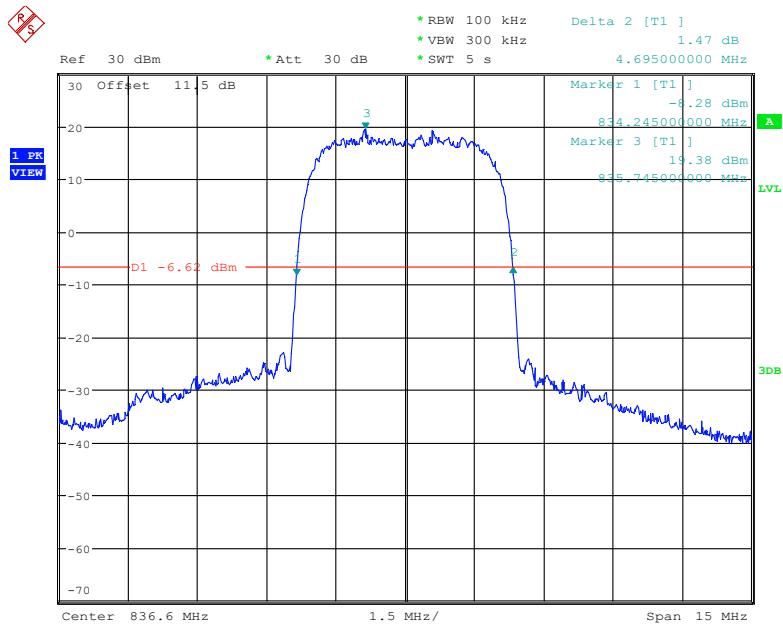


Date: 29.MAY.2023 19:12:20

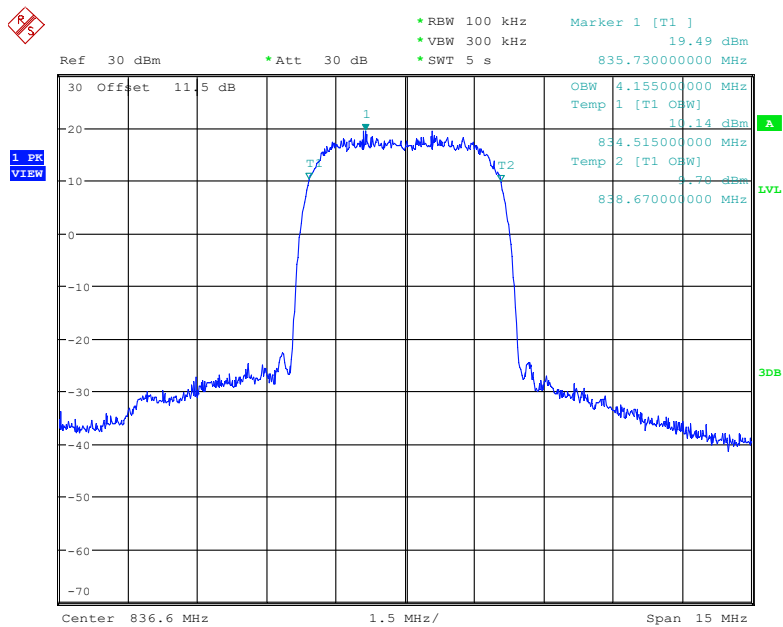


Date: 29.MAY.2023 19:11:54

26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Middle channel

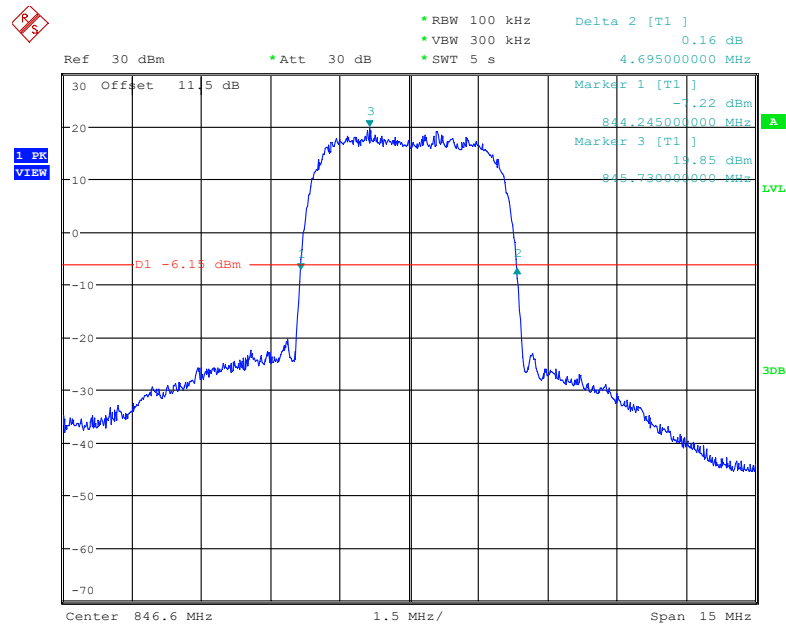


Date: 29.MAY.2023 19:05:52

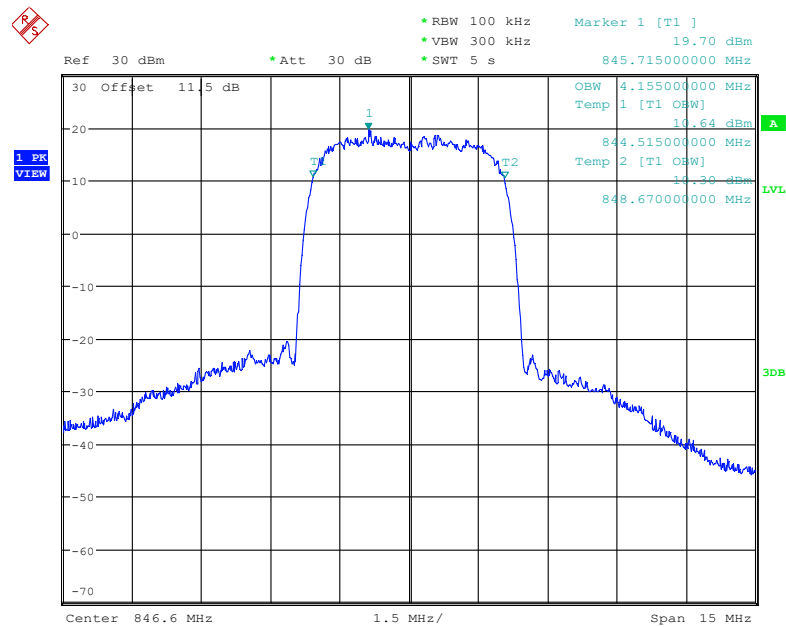


Date: 29.MAY.2023 19:05:10

26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, High channel

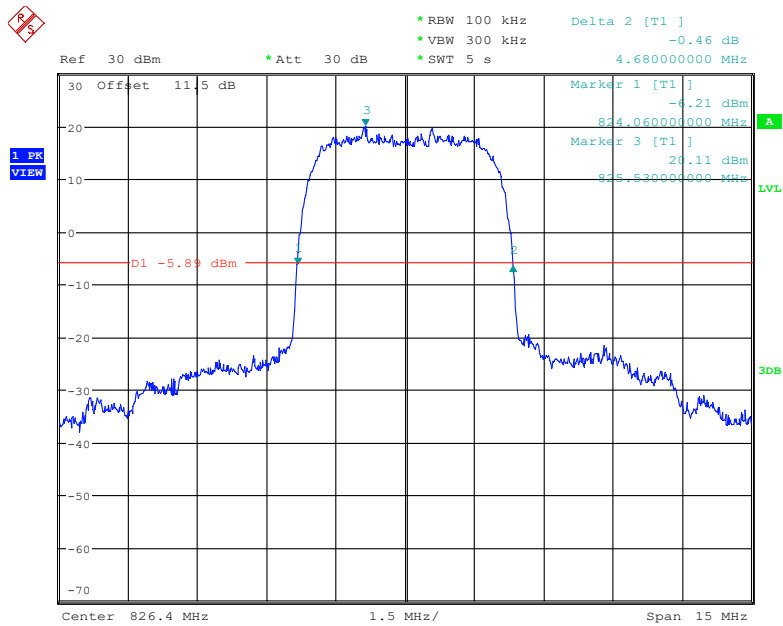


Date: 29.MAY.2023 19:15:27

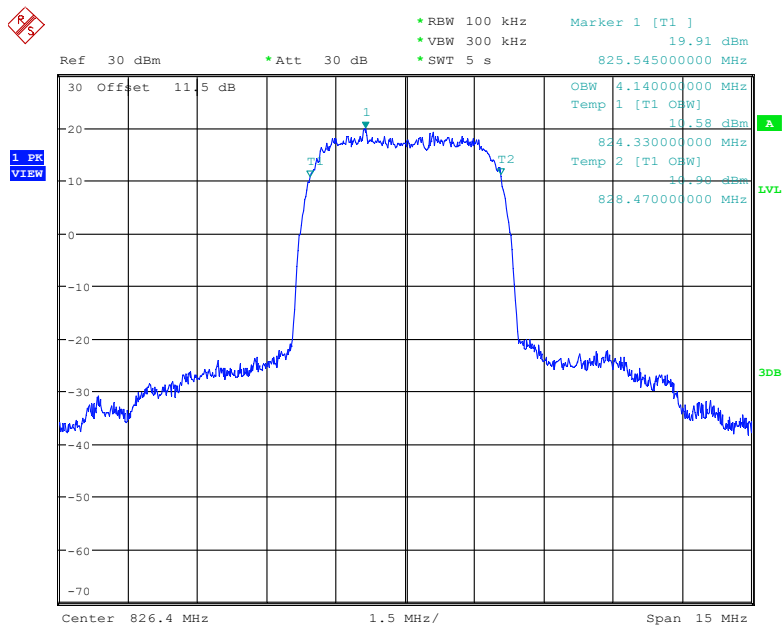


Date: 29.MAY.2023 19:15:00

26 dB Emissions & 99% Occupied Bandwidth for HSDPA (QPSK) Mode, Low channel

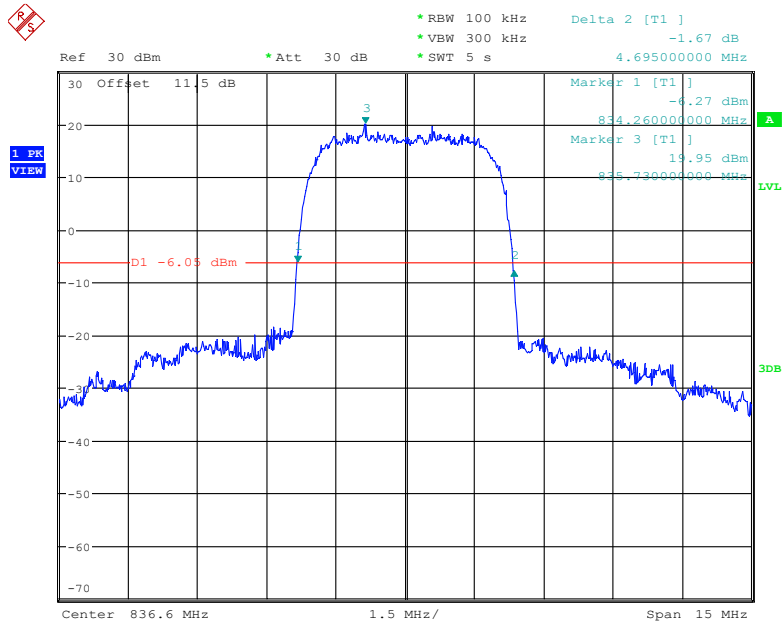


Date: 29.MAY.2023 19:39:39

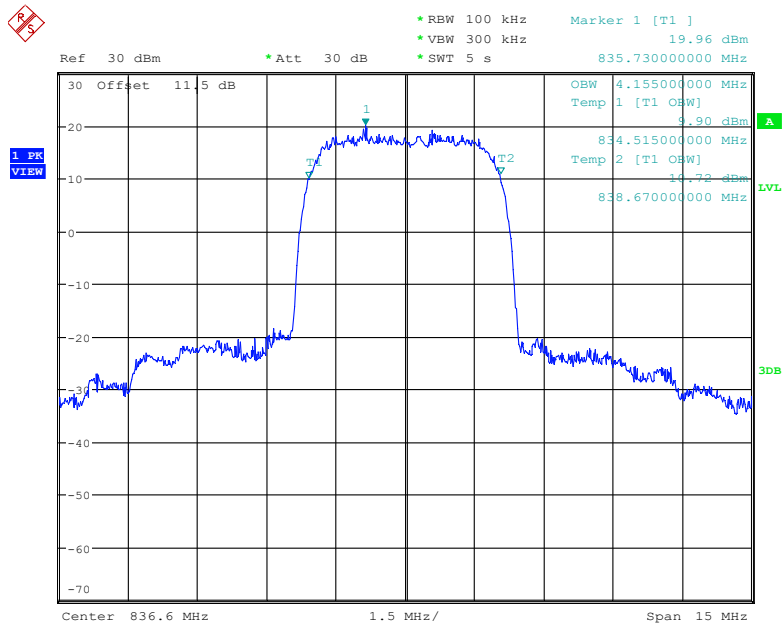


Date: 29.MAY.2023 19:38:57

26 dB Emissions & 99% Occupied Bandwidth for HSDPA (QPSK) Mode, Middle channel

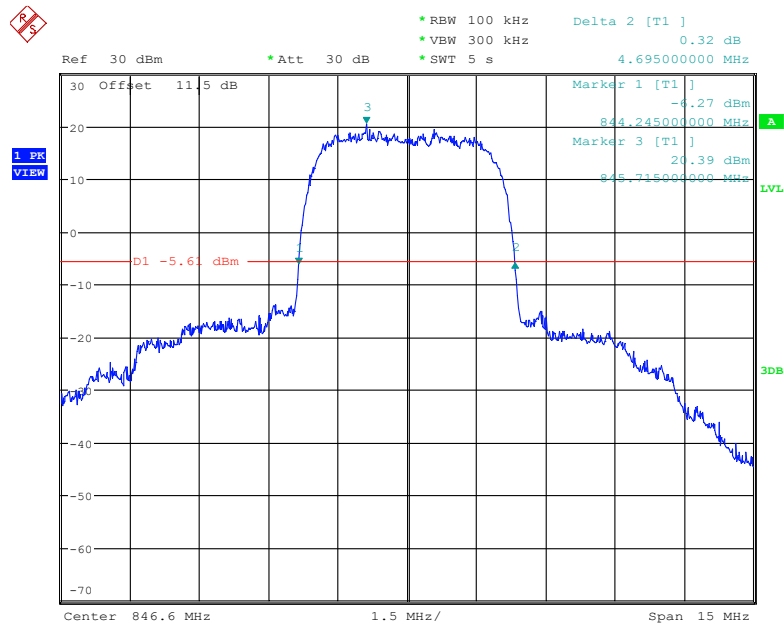


Date: 29.MAY.2023 19:43:05

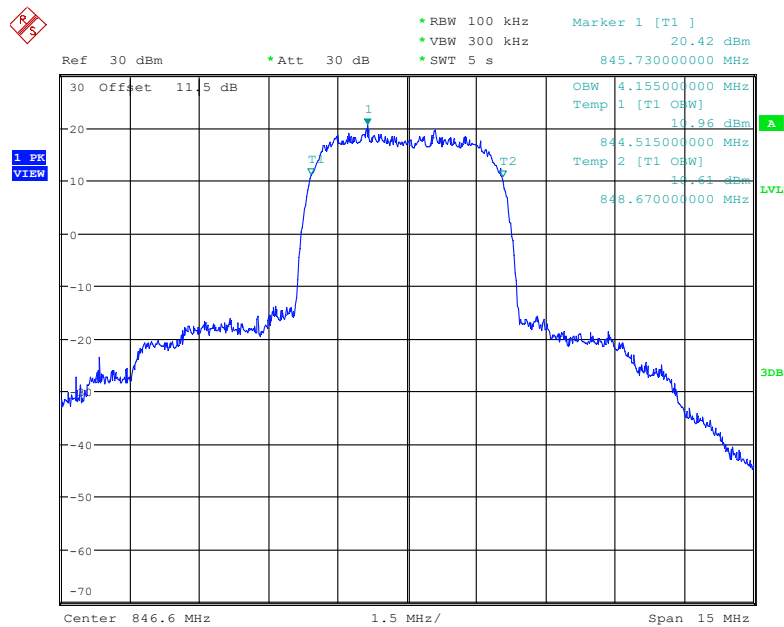


Date: 29.MAY.2023 19:42:23

26 dB Emissions & 99% Occupied Bandwidth for HSDPA (QPSK) Mode, High channel

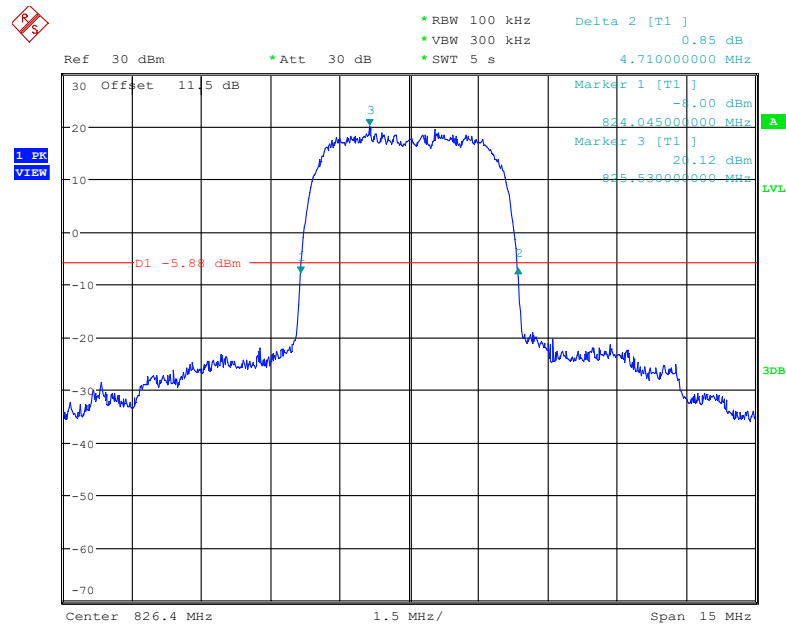


Date: 29.MAY.2023 19:49:21

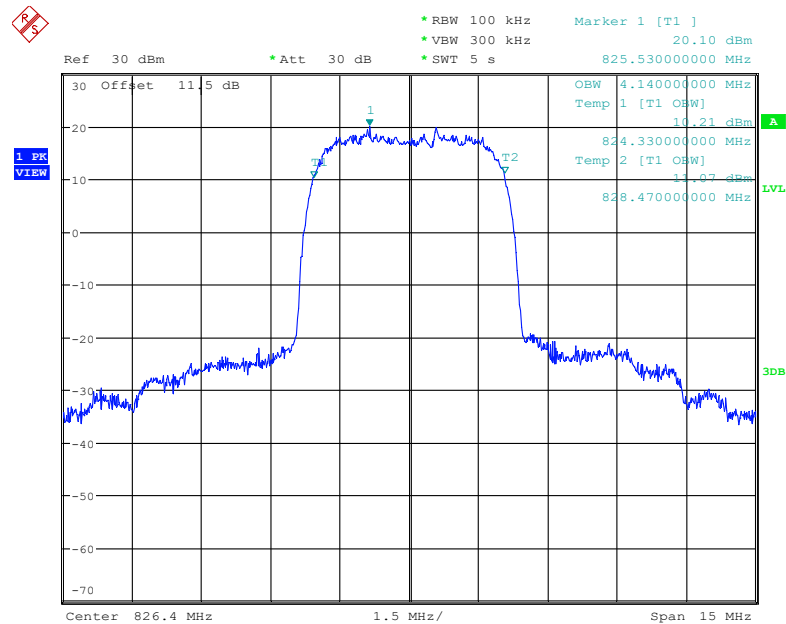


Date: 29.MAY.2023 19:48:38

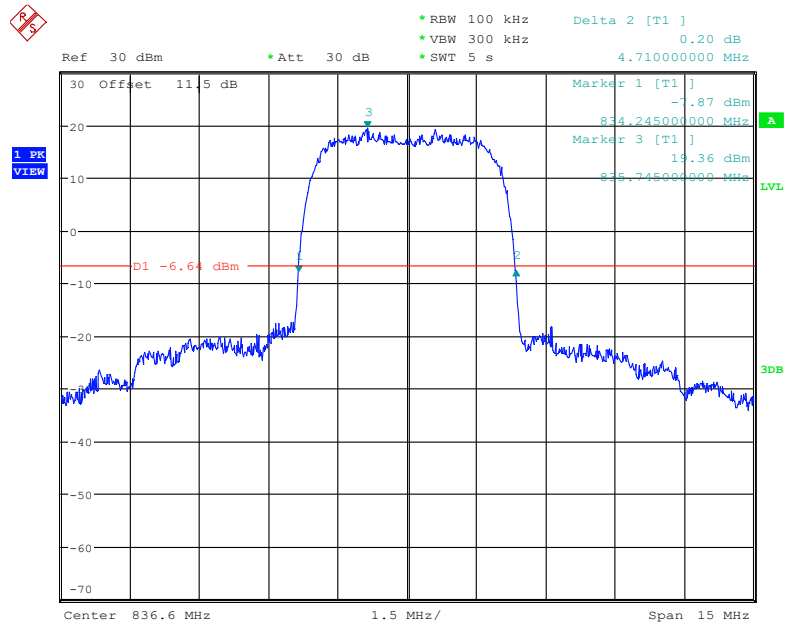
26 dB Emissions & 99% Occupied Bandwidth for HSUPA (16QAM) Mode, Low channel



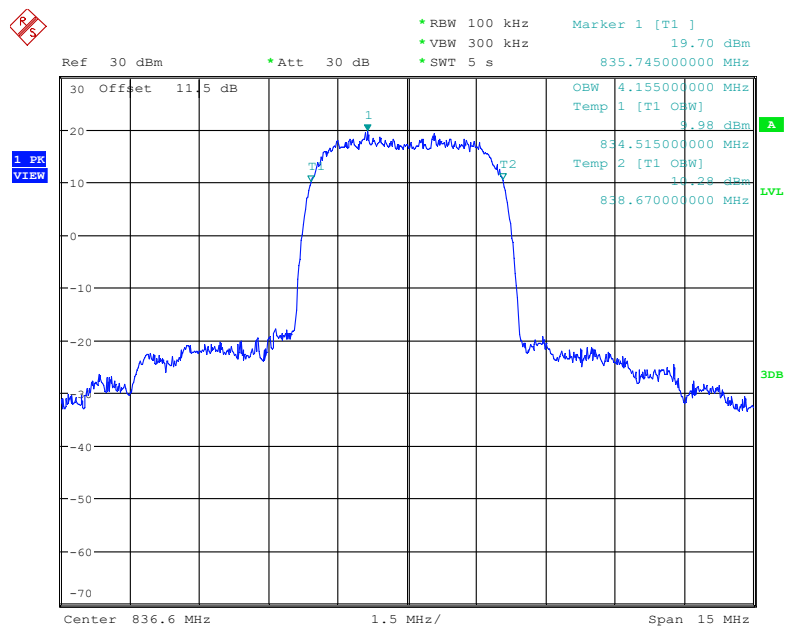
Date: 29.MAY.2023 19:26:33



Date: 29.MAY.2023 19:25:51

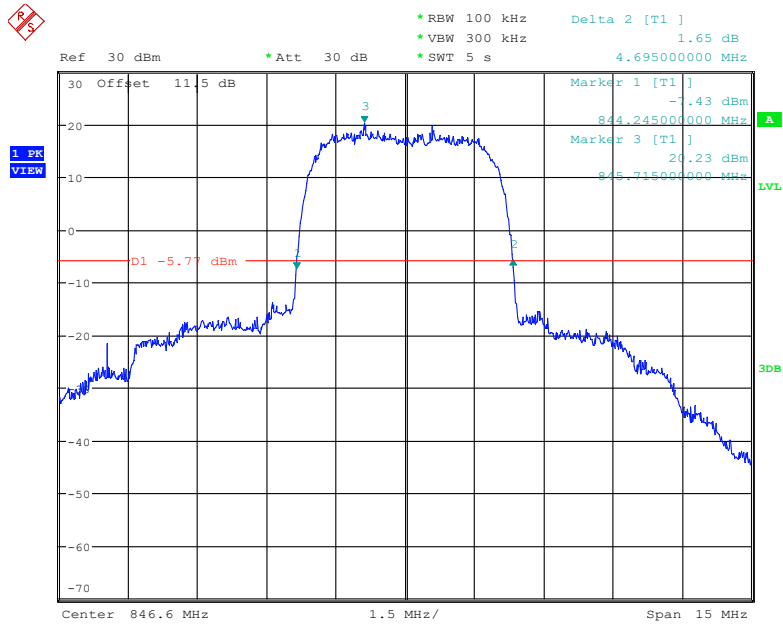
26 dB Emissions & 99% Occupied Bandwidth for HSUPA (16QAM) Mode, Middle channel

Date: 29.MAY.2023 19:30:29

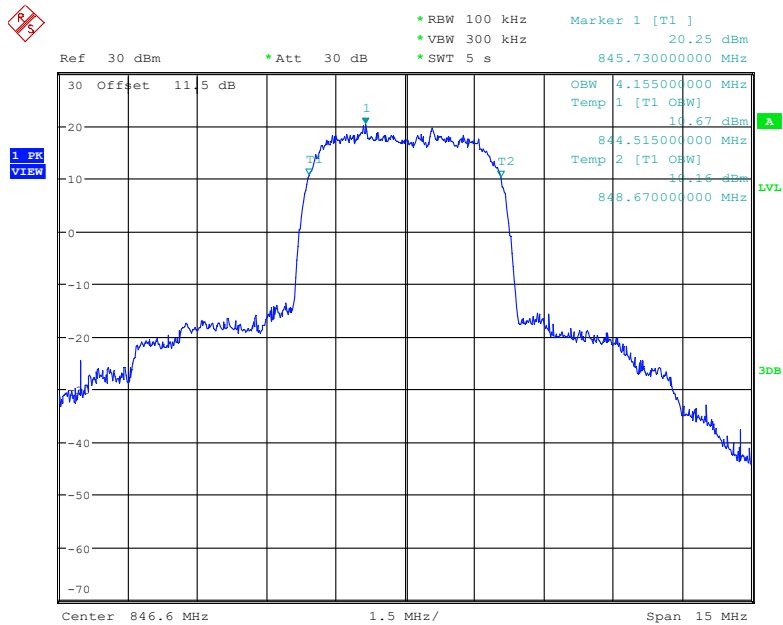


Date: 29.MAY.2023 19:29:47

26 dB Emissions & 99% Occupied Bandwidth for HSUPA (16QAM) Mode, High channel



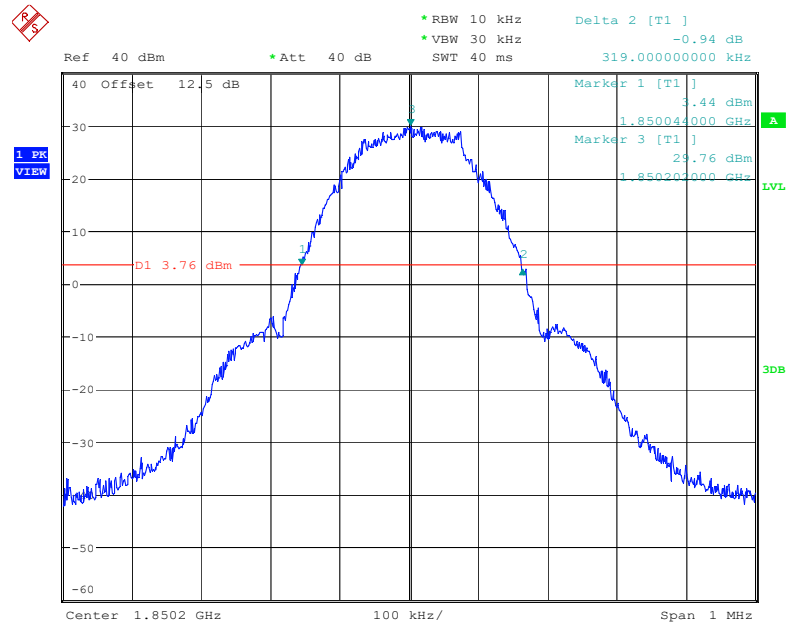
Date: 29.MAY.2023 19:21:48



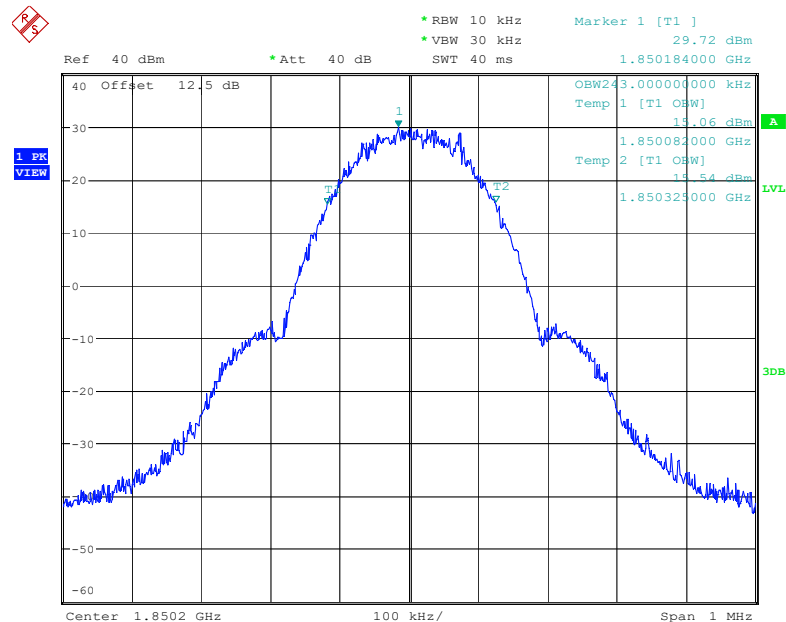
Date: 29.MAY.2023 19:21:06

PCS Band (Part 24E)

26 dB Emissions &99% Occupied Bandwidth for GSM (GMSK) Mode, Low channel

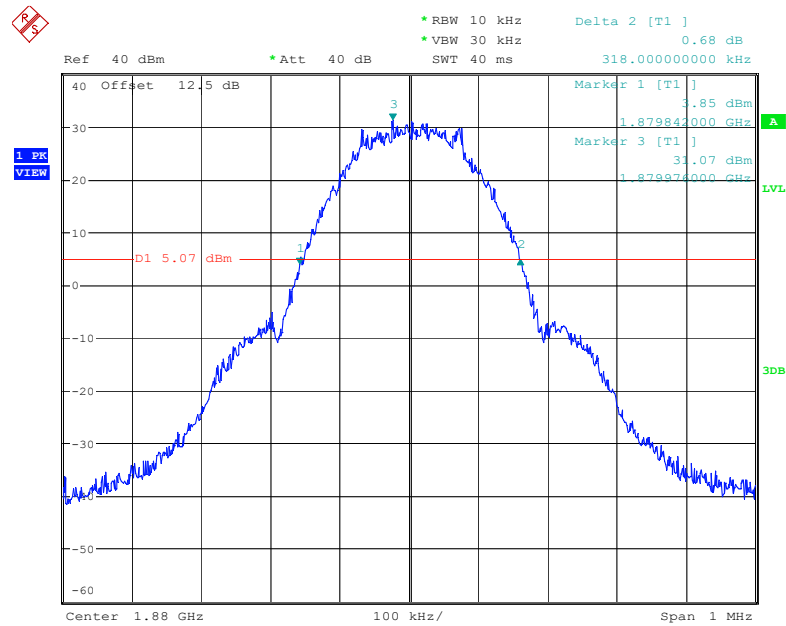


Date: 29.MAY.2023 15:51:33

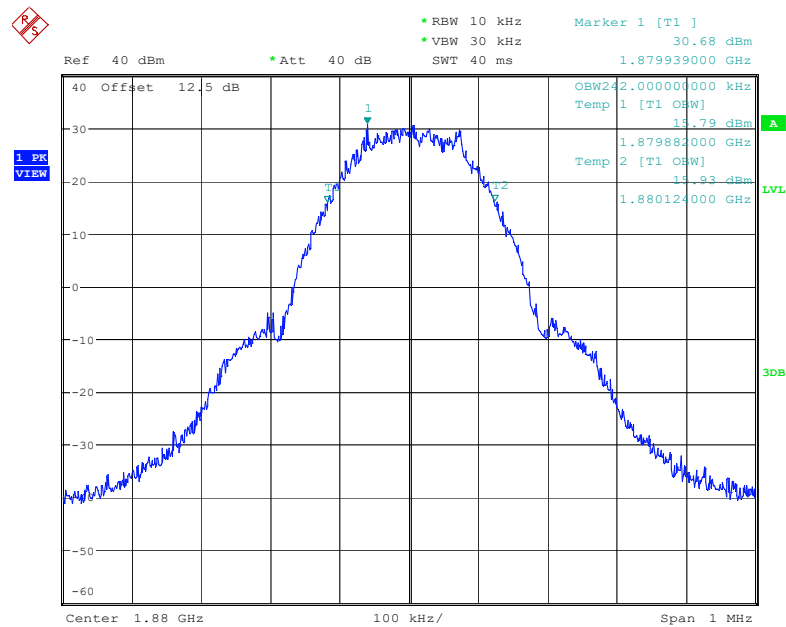


Date: 29.MAY.2023 15:50:32

26 dB Emissions &99% Occupied Bandwidth for GSM (GMSK) Mode, Middle channel

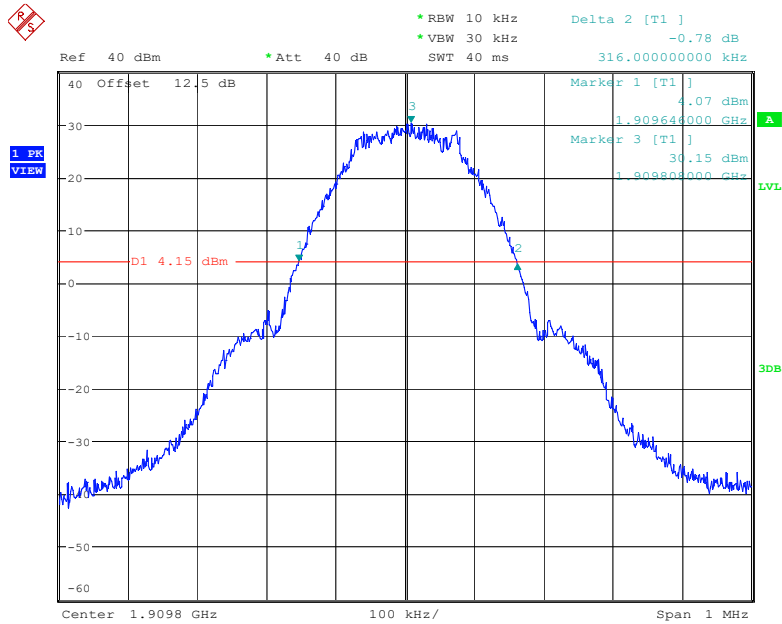


Date: 29.MAY.2023 15:46:16

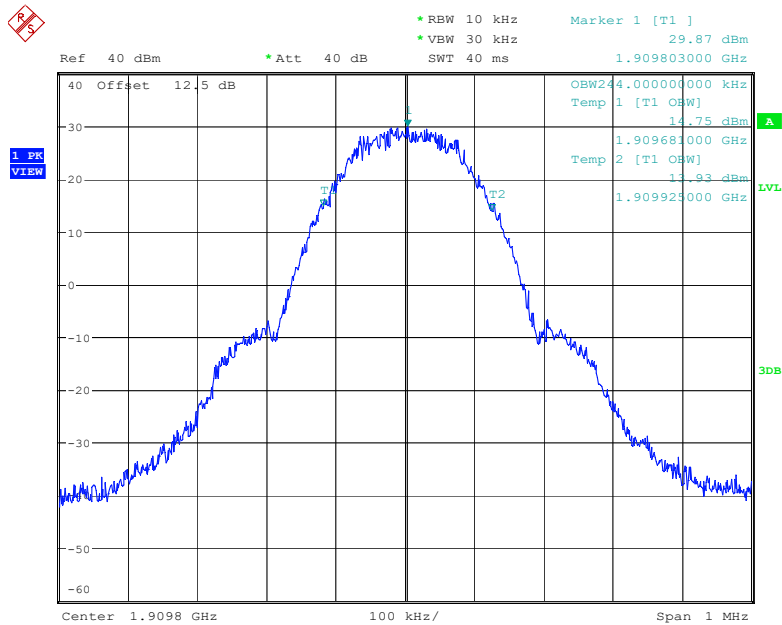


Date: 29.MAY.2023 15:45:35

26 dB Emissions &99% Occupied Bandwidth for GSM (GMSK) Mode, High channel

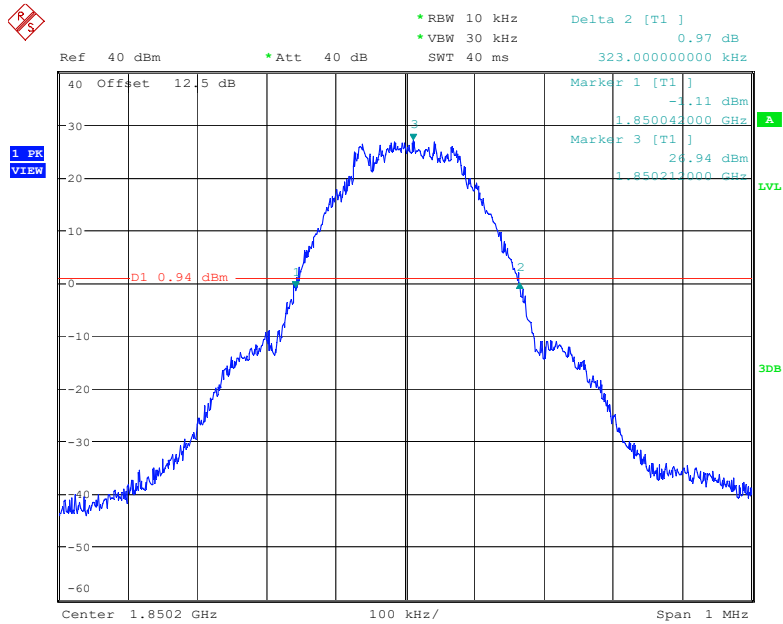


Date: 29.MAY.2023 15:38:24

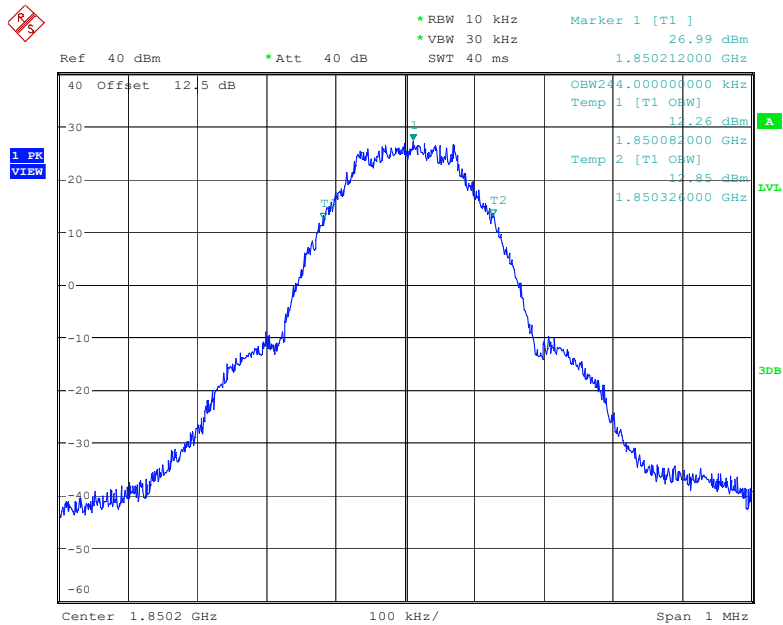


Date: 29.MAY.2023 15:37:43

26 dB Emissions &99% Occupied Bandwidth for EGPRS (8PSK) Mode, Low channel

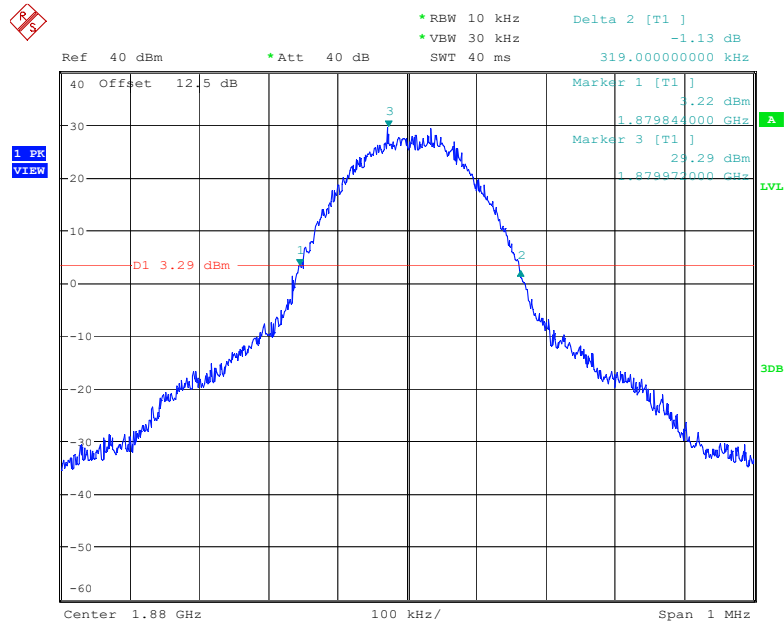


Date: 29.MAY.2023 15:00:52

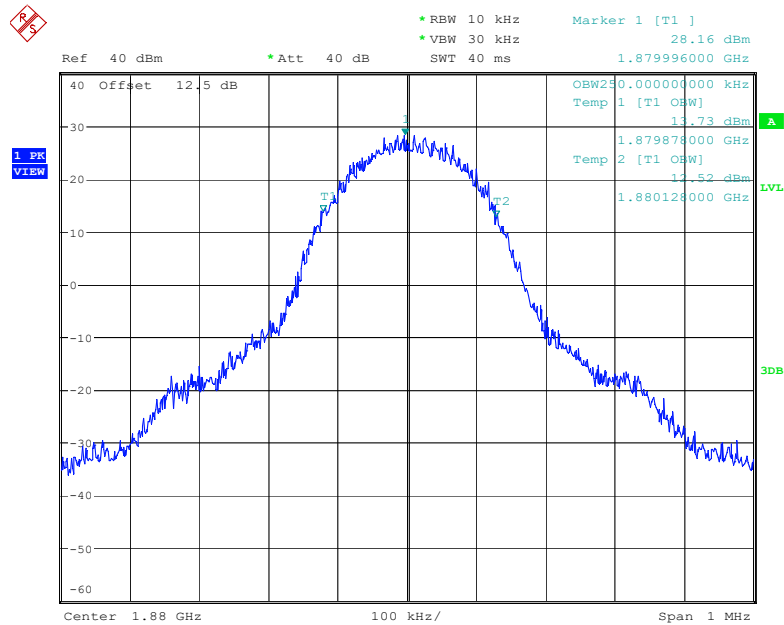


Date: 29.MAY.2023 15:00:10

26 dB Emissions & 99% Occupied Bandwidth for EGPRS (8PSK) Mode, Middle channel

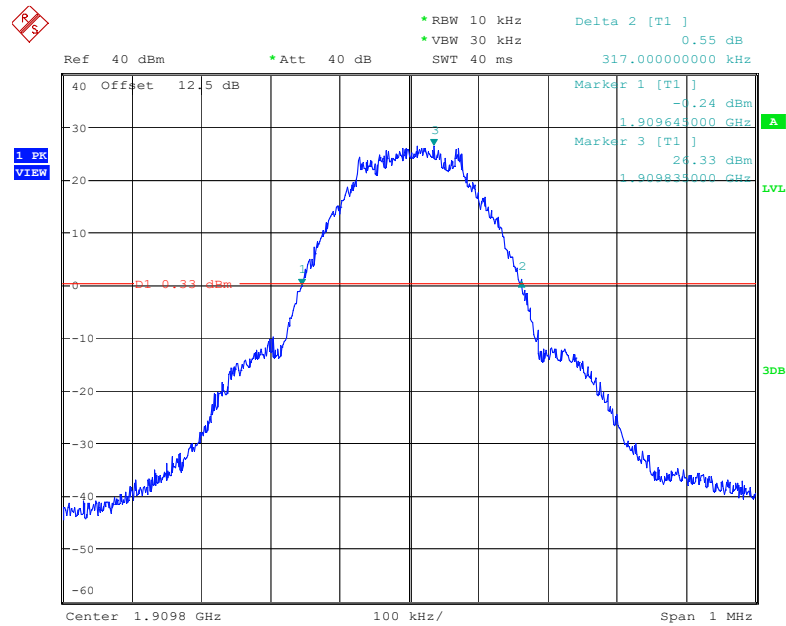


Date: 6.JUN.2023 17:43:56

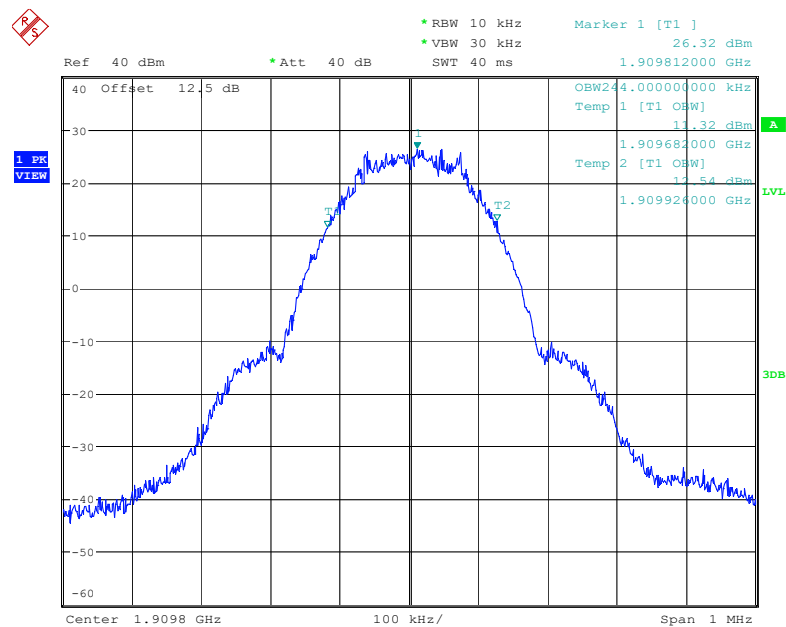


Date: 6.JUN.2023 17:43:04

26 dB Emissions & 99% Occupied Bandwidth for EGPRS (8PSK) Mode, High channel

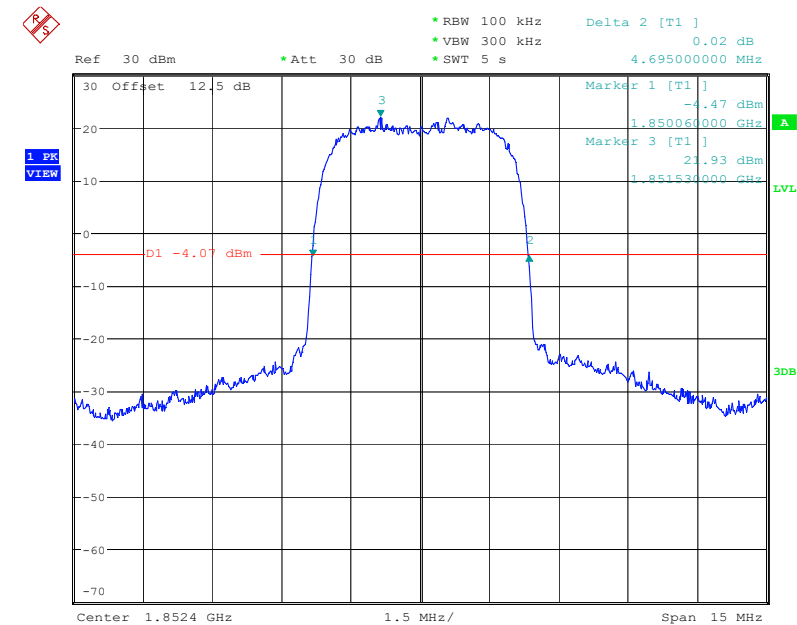


Date: 29.MAY.2023 14:53:06

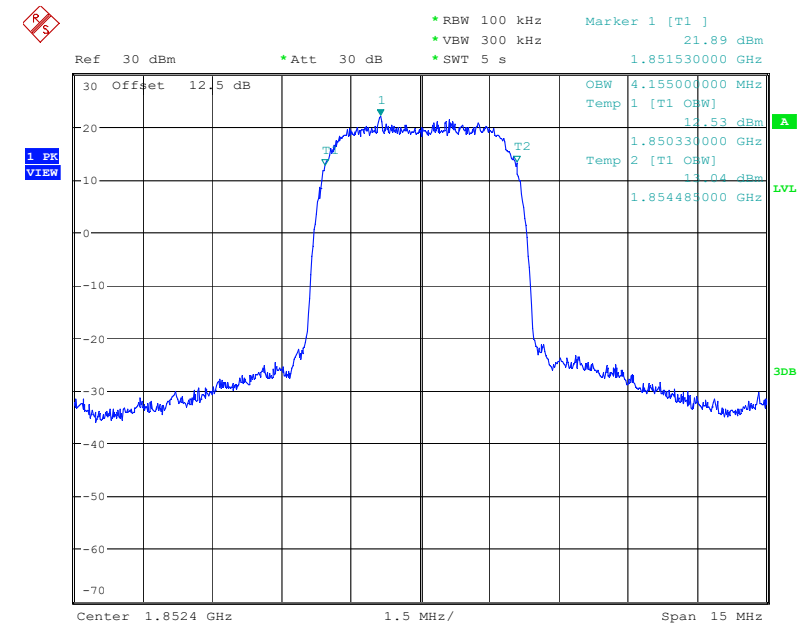


Date: 29.MAY.2023 14:52:25

26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Low channel

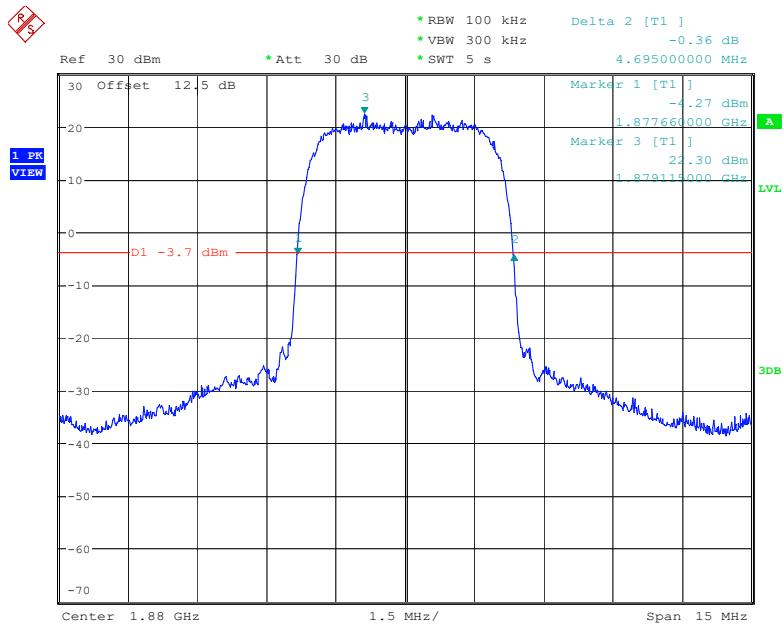


Date: 29.MAY.2023 16:31:41

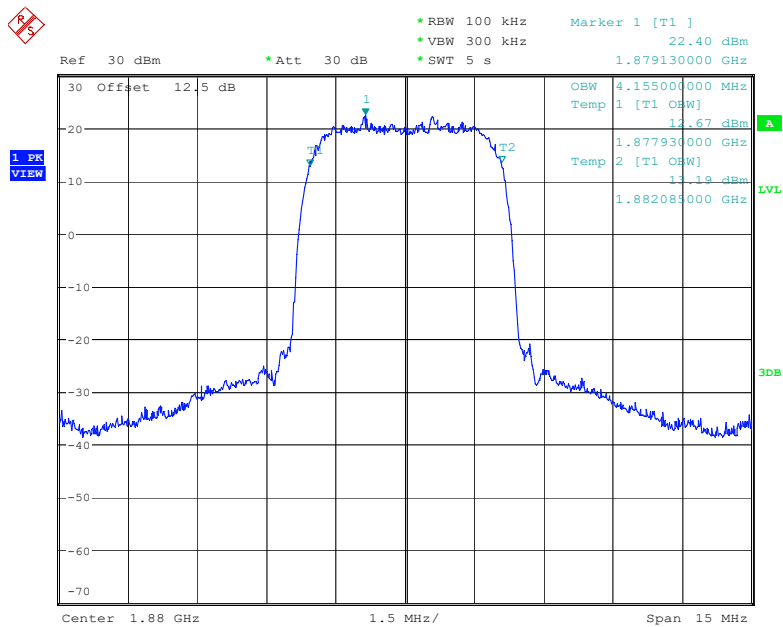


Date: 29.MAY.2023 16:30:59

26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Middle channel

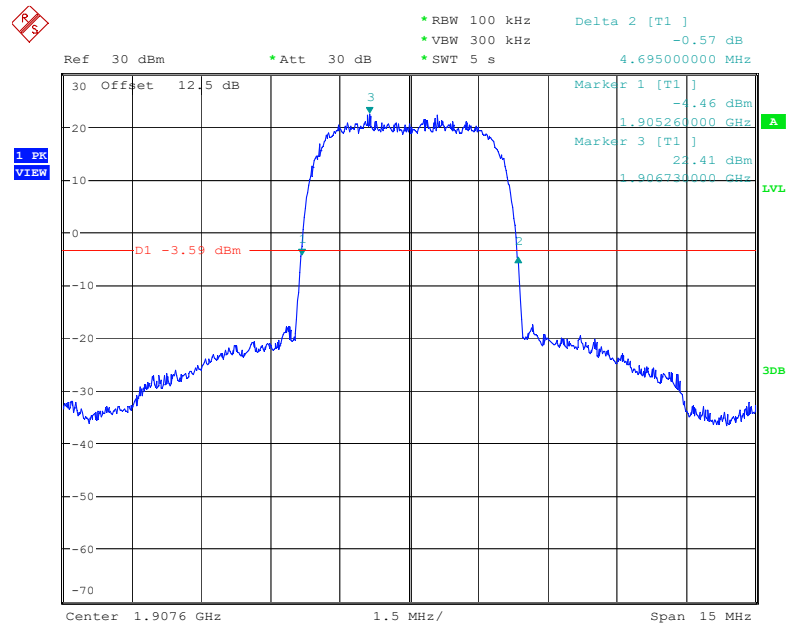


Date: 29.MAY.2023 16:34:52

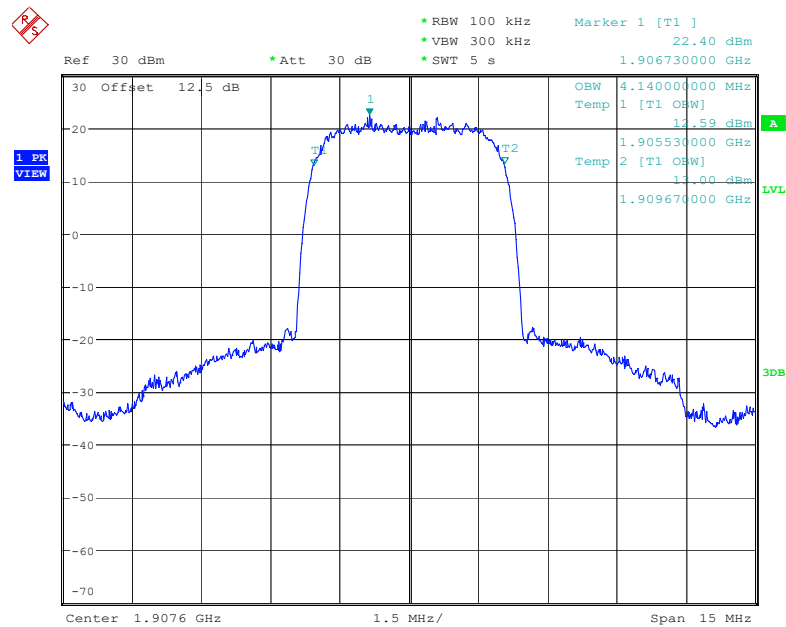


Date: 29.MAY.2023 16:34:24

26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, High channel

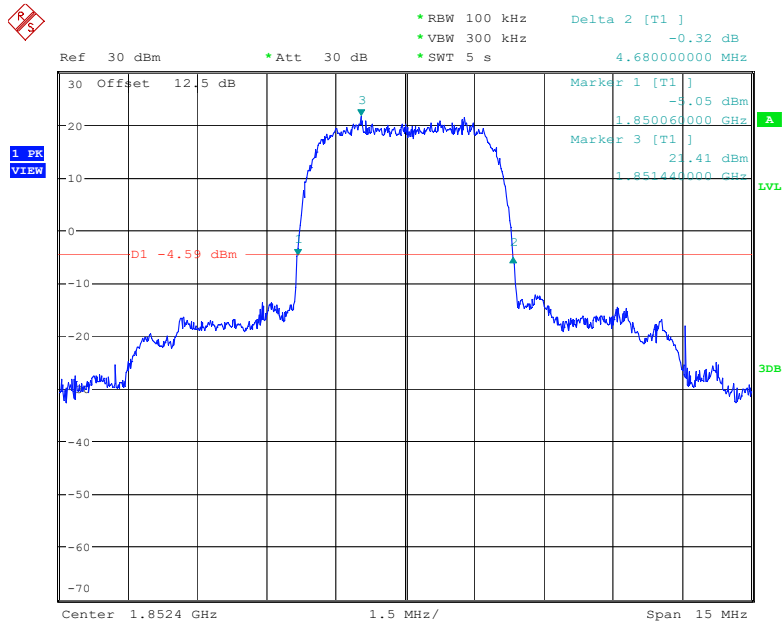


Date: 29.MAY.2023 16:37:25

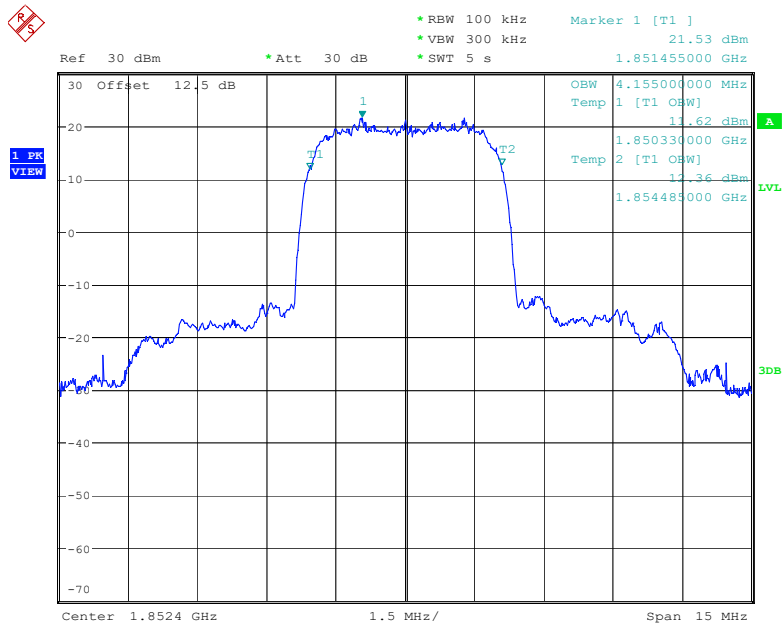


Date: 29.MAY.2023 16:36:59

26 dB Emissions & 99% Occupied Bandwidth for HSDPA (QPSK) Mode, Low channel

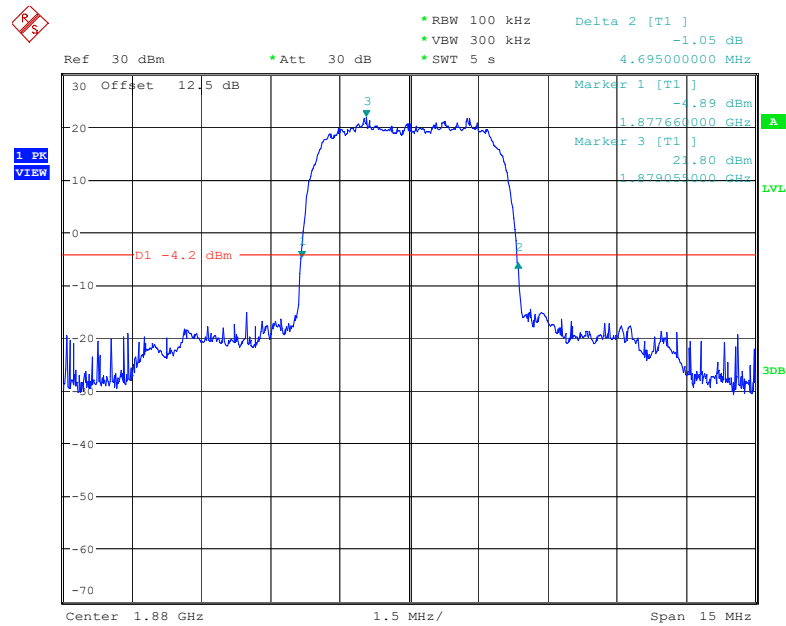


Date: 29.MAY.2023 16:46:50

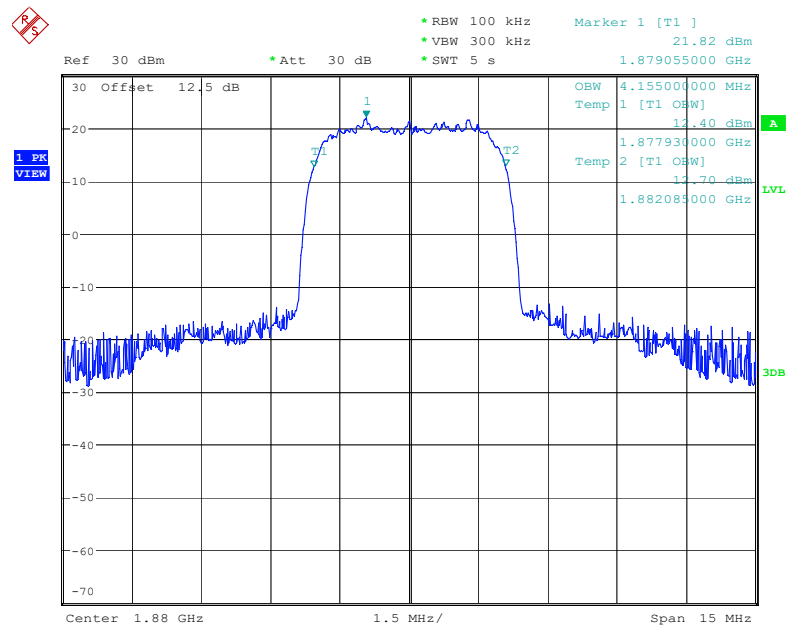


Date: 29.MAY.2023 16:46:24

26 dB Emissions &99% Occupied Bandwidth for HSDPA (QPSK) Mode, Middle channel

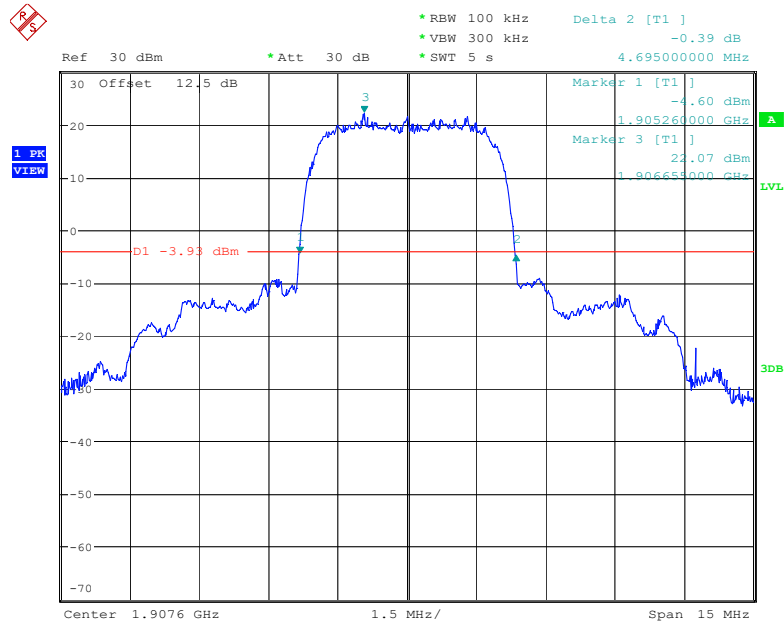


Date: 29.MAY.2023 16:58:07

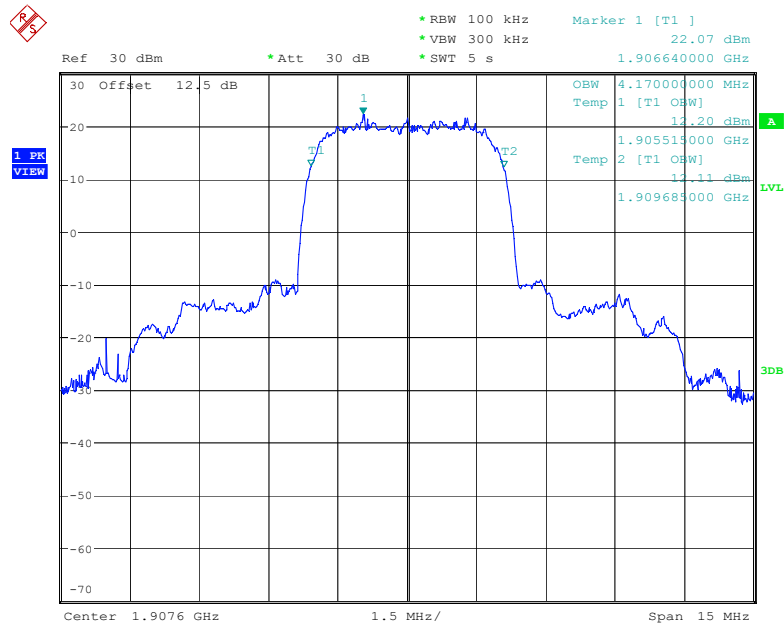


Date: 29.MAY.2023 16:57:12

26 dB Emissions & 99% Occupied Bandwidth for HSDPA (QPSK) Mode, High channel

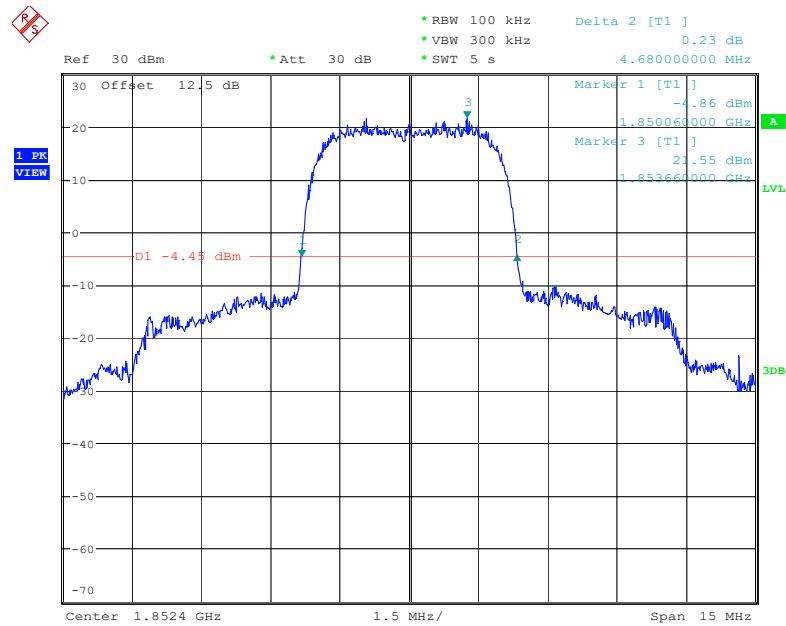


Date: 29.MAY.2023 16:43:10

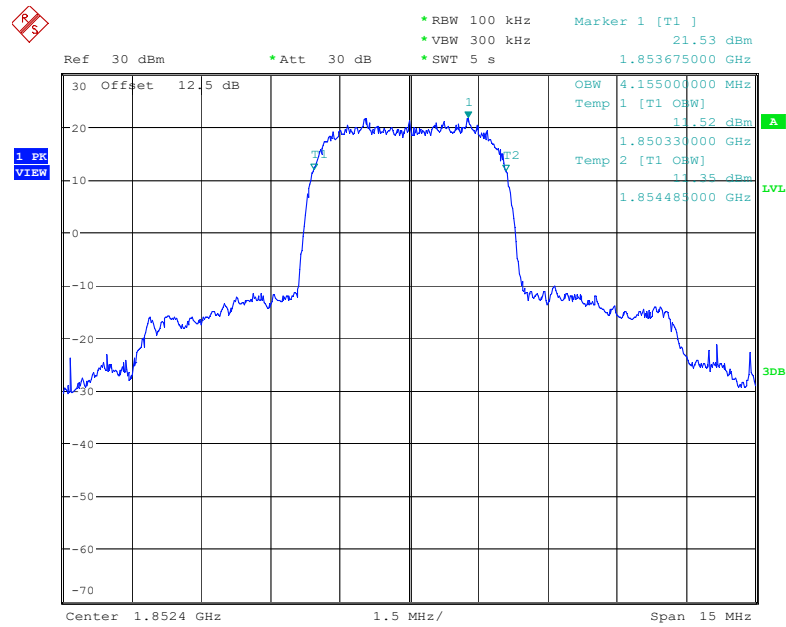


Date: 29.MAY.2023 16:42:28

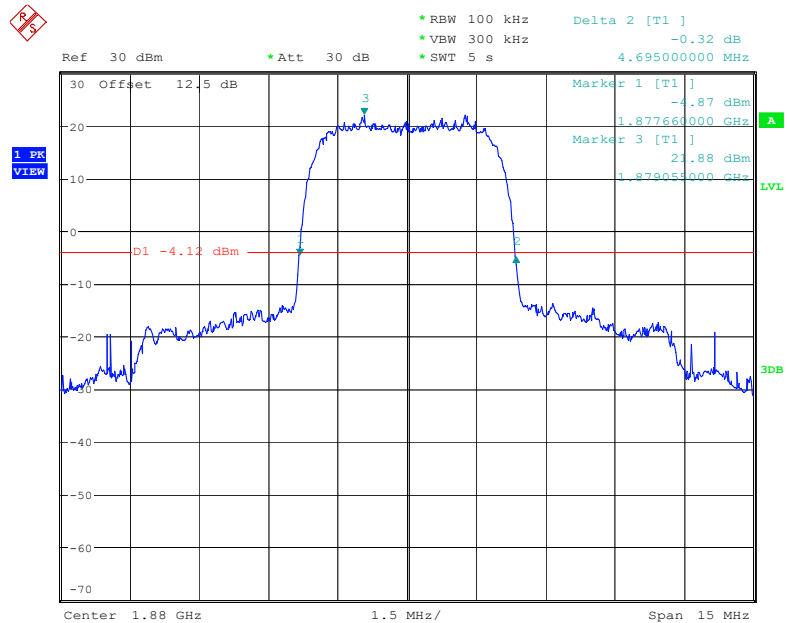
26 dB Emissions & 99% Occupied Bandwidth for HSUPA (16QAM) Mode, Low channel



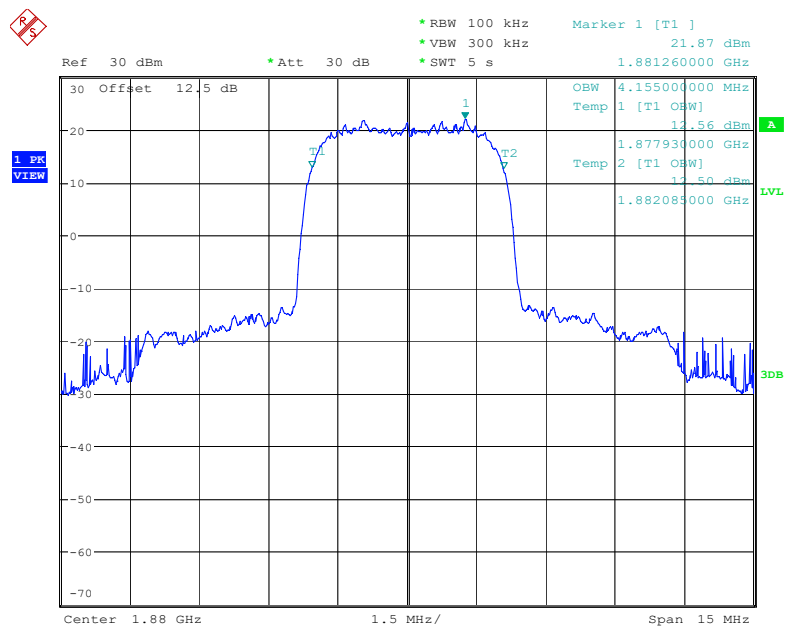
Date: 29.MAY.2023 17:10:50



Date: 29.MAY.2023 17:10:23

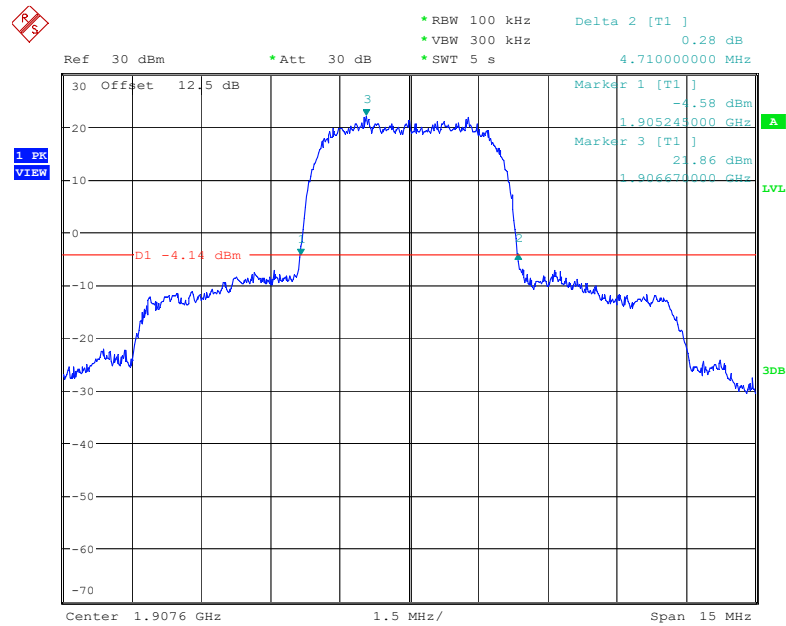
26 dB Emissions & 99% Occupied Bandwidth for HSUPA (16QAM) Mode, Middle channel

Date: 29.MAY.2023 17:03:51

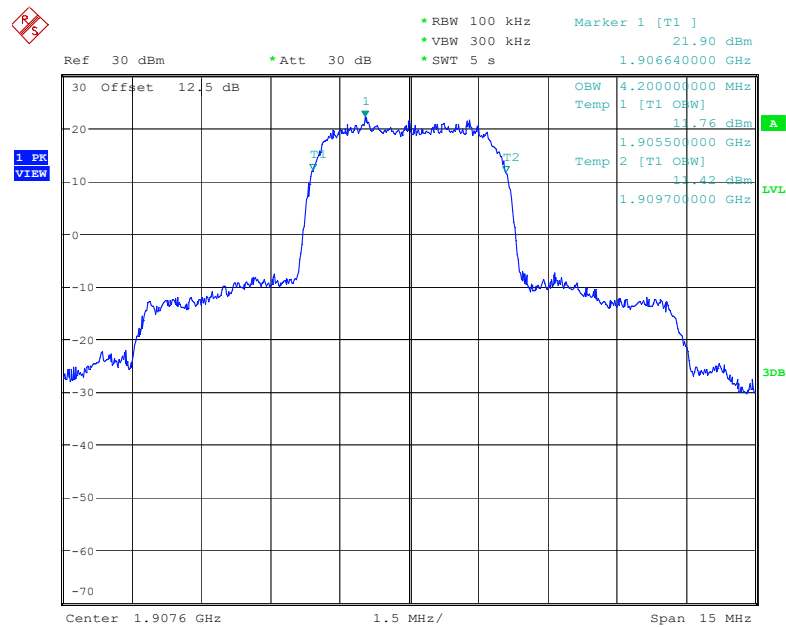


Date: 29.MAY.2023 17:03:09

26 dB Emissions &99% Occupied Bandwidth for HSUPA (16QAM) Mode, High channel



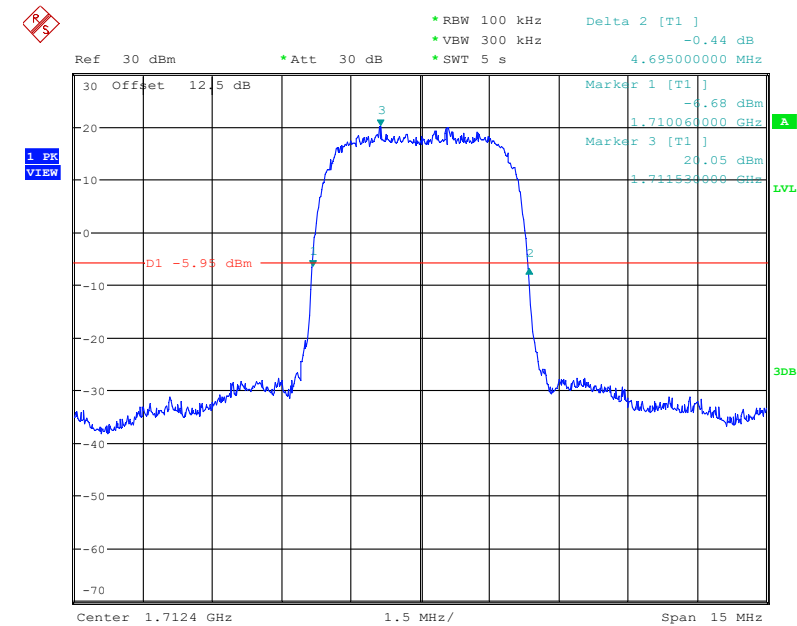
Date: 29.MAY.2023 17:07:07



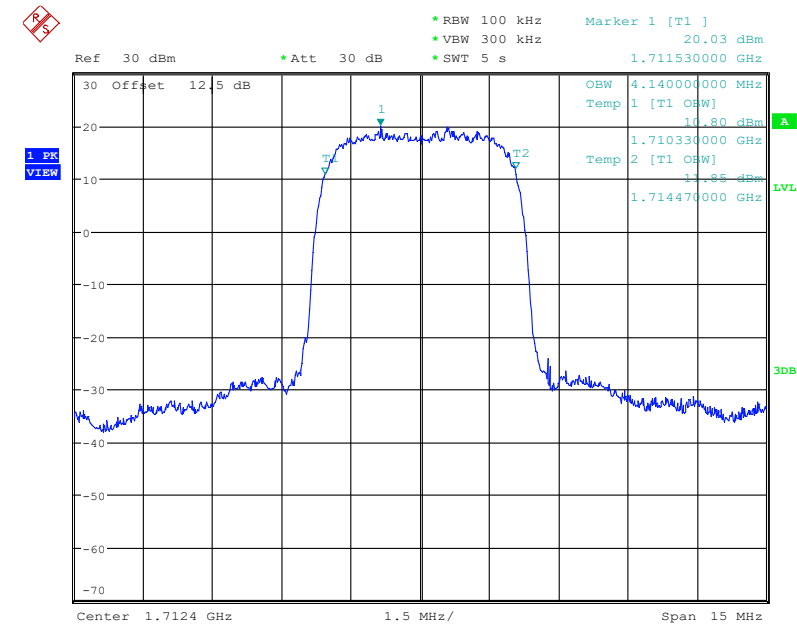
Date: 29.MAY.2023 17:06:27

AWS:

26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Low channel

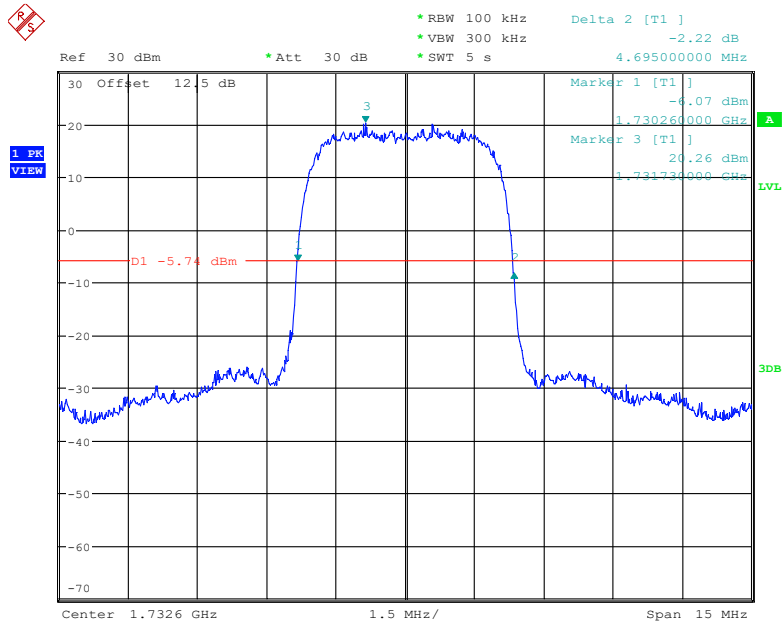


Date: 29.MAY.2023 18:03:00

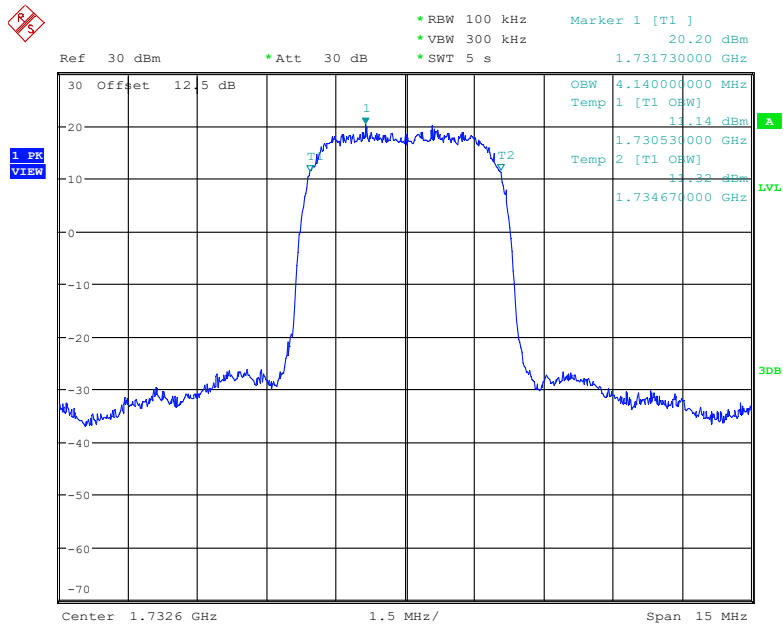


Date: 29.MAY.2023 18:02:33

26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Middle channel

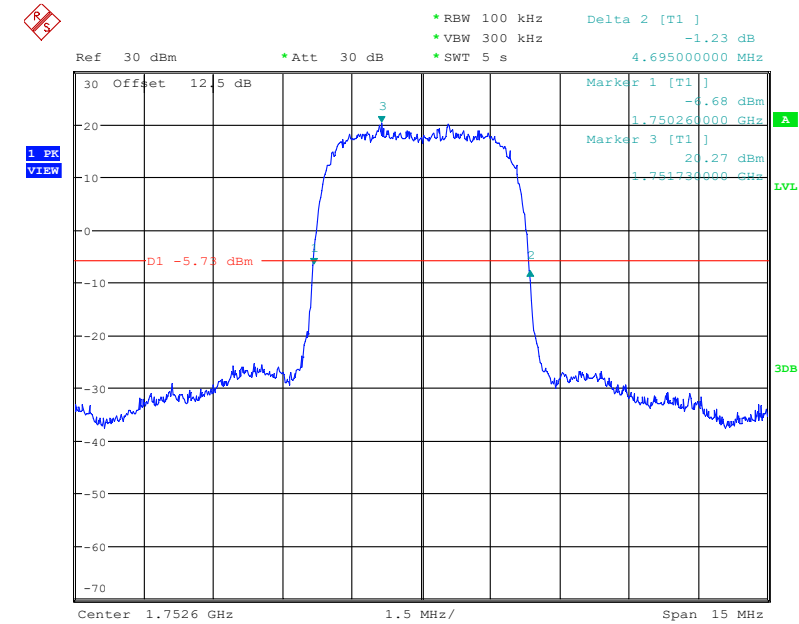


Date: 29.MAY.2023 18:09:41

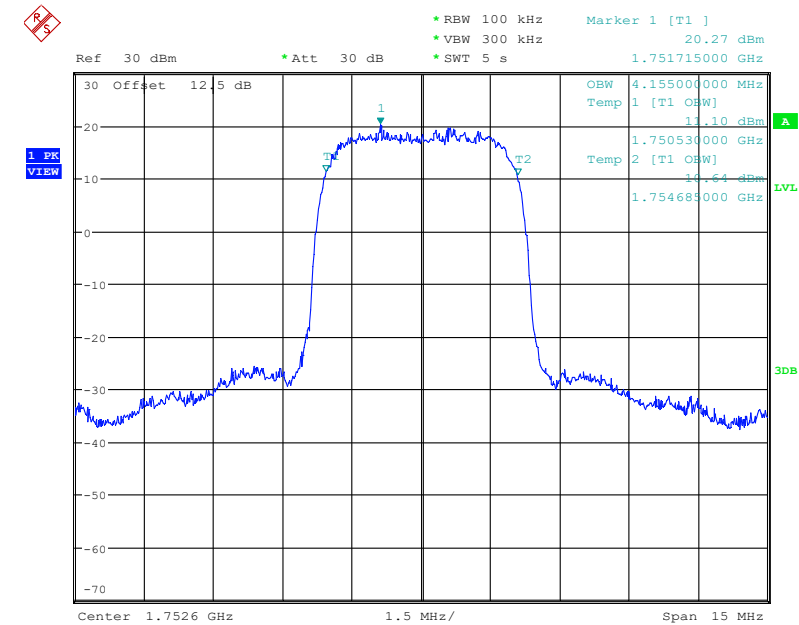


Date: 29.MAY.2023 18:09:13

26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, High channel

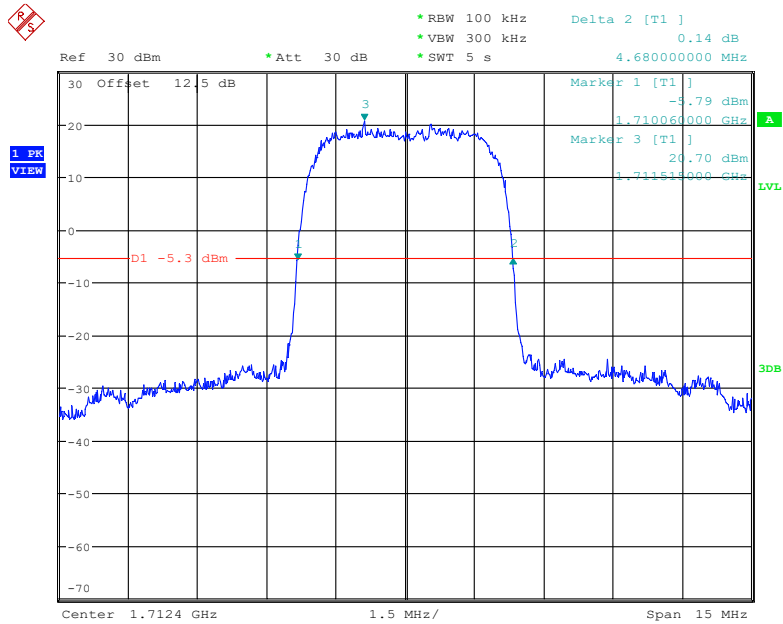


Date: 29.MAY.2023 18:13:39

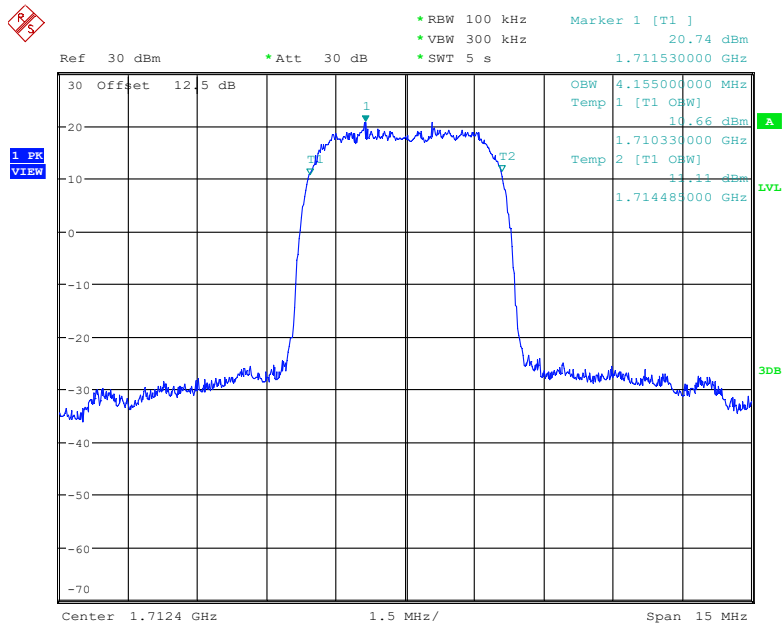


Date: 29.MAY.2023 18:13:11

26 dB Emissions & 99% Occupied Bandwidth for HSDPA (QPSK) Mode, Low channel

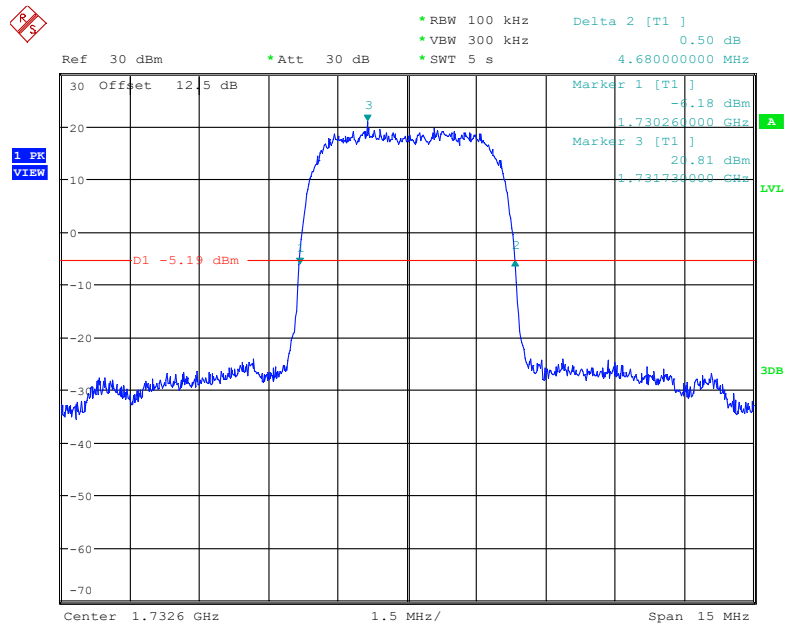


Date: 29.MAY.2023 18:25:10

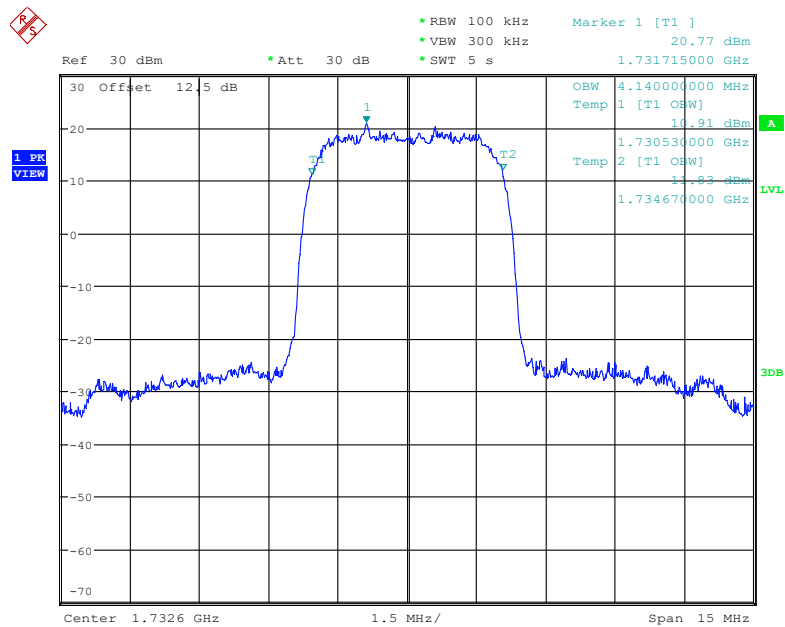


Date: 29.MAY.2023 18:24:28

26 dB Emissions & 99% Occupied Bandwidth for HSDPA (QPSK) Mode, Middle channel

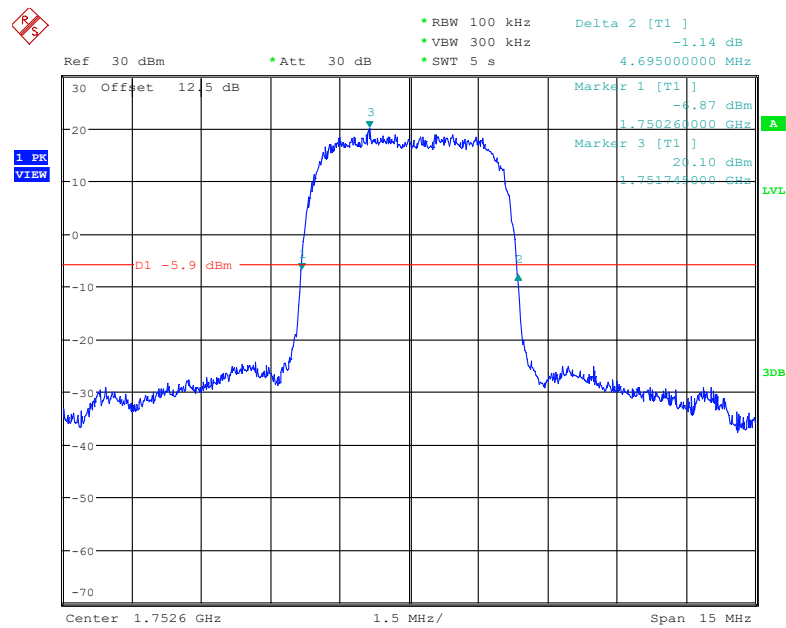


Date: 29.MAY.2023 18:29:48

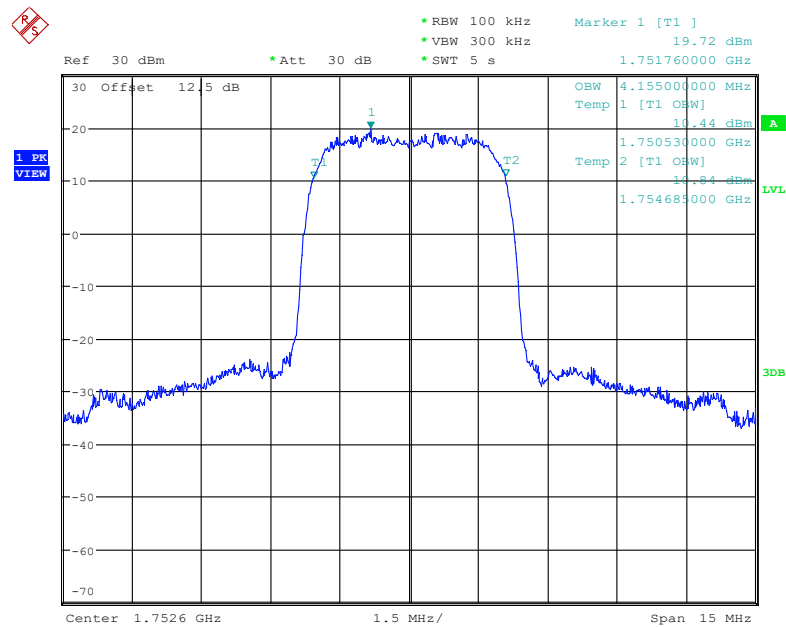


Date: 29.MAY.2023 18:29:06

26 dB Emissions & 99% Occupied Bandwidth for HSDPA (QPSK) Mode, High channel

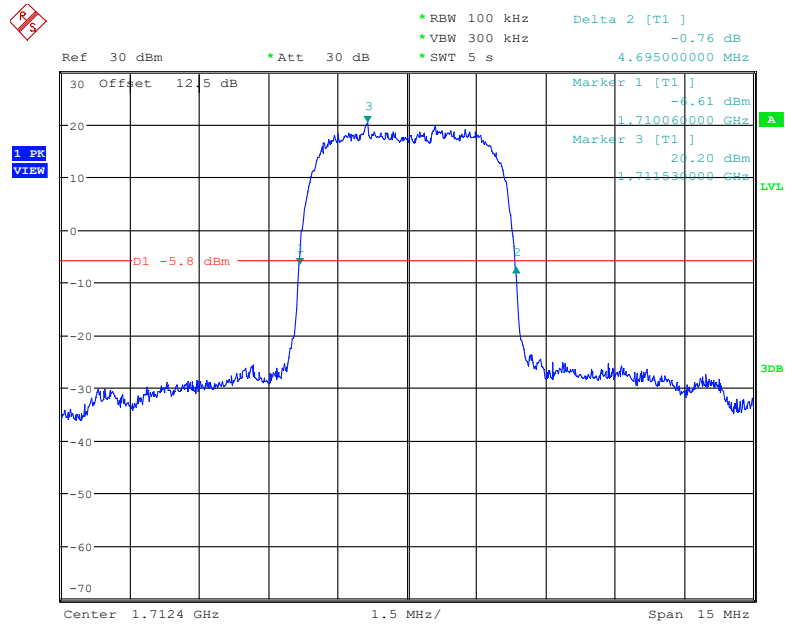


Date: 29.MAY.2023 18:20:14

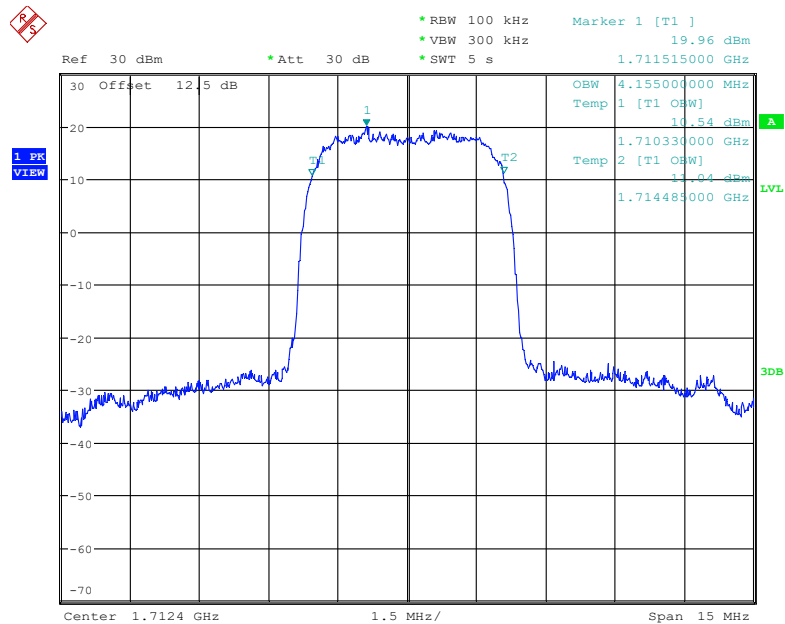


Date: 29.MAY.2023 18:19:47

26 dB Emissions & 99% Occupied Bandwidth for HSUPA (16QAM) Mode, Low channel

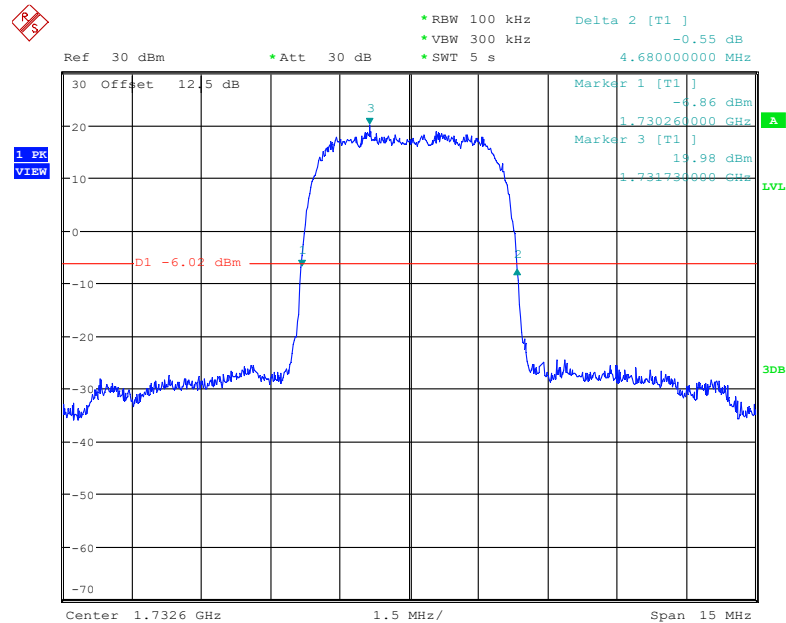


Date: 29.MAY.2023 18:41:17

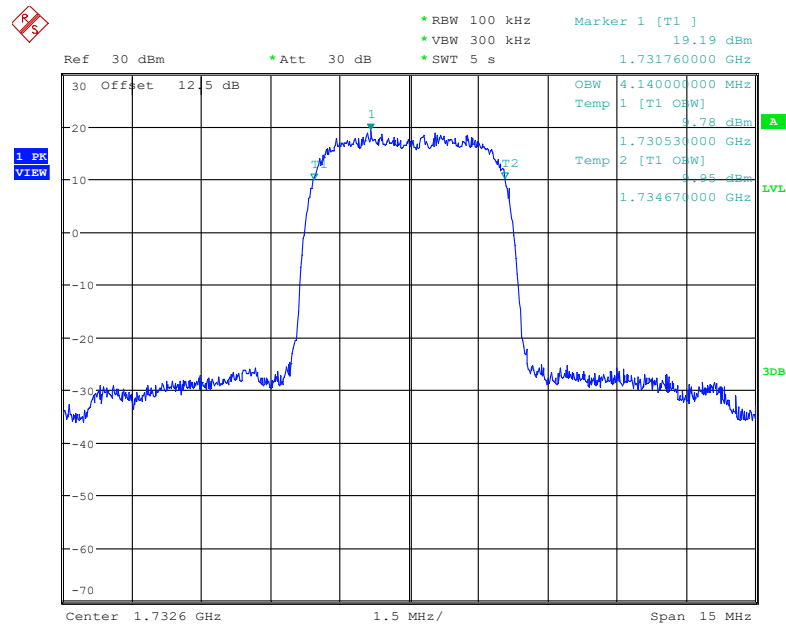


Date: 29.MAY.2023 18:40:36

26 dB Emissions &99% Occupied Bandwidth for HSUPA (16QAM) Mode, Middle channel

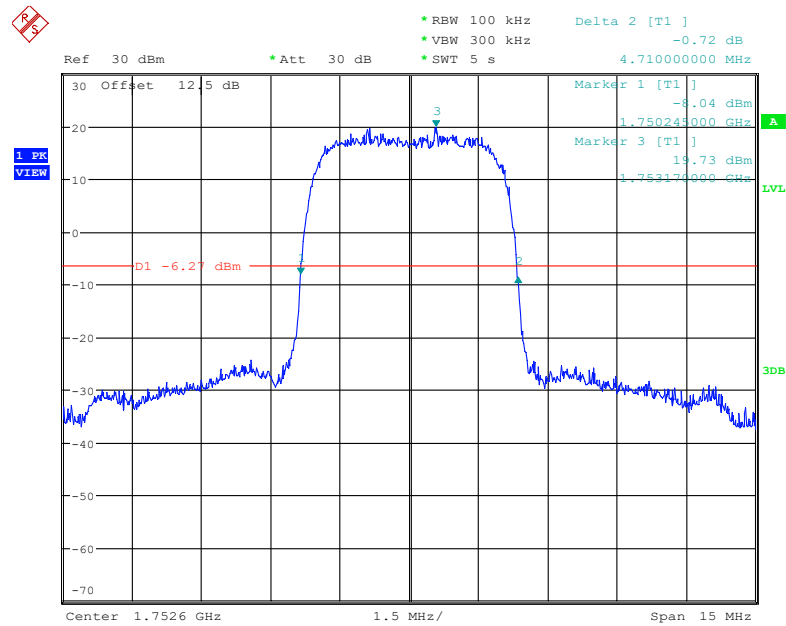


Date: 29.MAY.2023 18:35:52

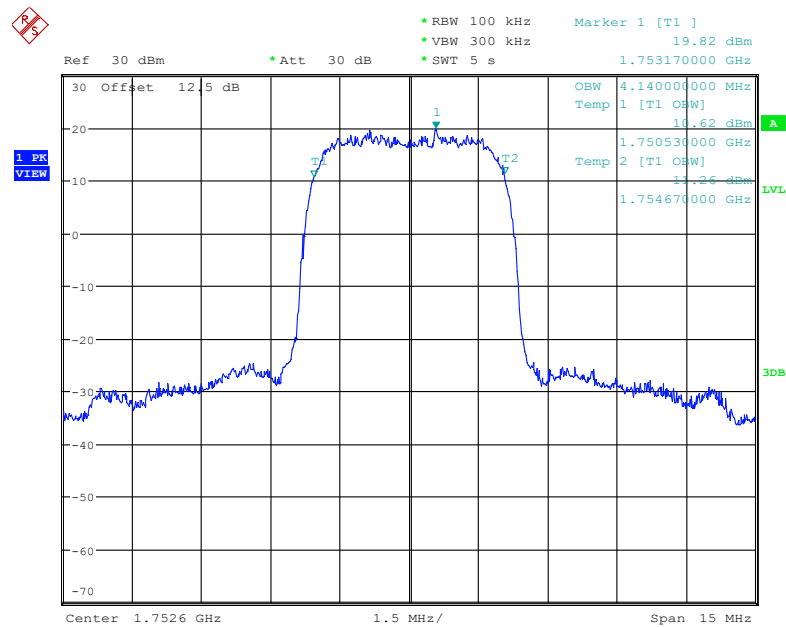


Date: 29.MAY.2023 18:35:10

26 dB Emissions &99% Occupied Bandwidth for HSUPA (16QAM) Mode, High channel



Date: 29.MAY.2023 18:54:19



Date: 29.MAY.2023 18:53:53

LTE Band 2:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.104	1.266	1.098	1.266	1.098	1.254
	16QAM	1.098	1.266	1.11	1.26	1.098	1.254
3 MHz	QPSK	2.7	3.0	2.7	3.0	2.7	3.0
	16QAM	2.7	3.0	2.7	3.0	2.7	3.0
5 MHz	QPSK	4.54	5.00	4.5	5.0	4.52	4.98
	16QAM	4.54	5.00	4.52	5.02	4.52	4.98
10 MHz	QPSK	8.96	9.72	8.96	9.76	8.96	9.76
	16QAM	9	10	8.96	9.84	8.96	9.80
15 MHz	QPSK	13.5	15.0	13.56	15.06	13.5	15.0
	16QAM	13.56	15.06	13.5	15.0	13.5	14.9
20 MHz	QPSK	17.92	19.68	18.16	19.76	18	19
	16QAM	18	20	18	20	18	20

LTE Band 4:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.104	1.254	1.104	1.266	1.11	1.22
	16QAM	1.116	1.260	1.098	1.254	1.11	1.27
3 MHz	QPSK	2.7	3.0	2.7	3.0	2.712	3
	16QAM	2.7	3.0	2.712	3.012	2.7	3.0
5 MHz	QPSK	4.52	5.02	4.52	5.00	4.52	4.98
	16QAM	4.54	5.00	4.54	5.00	4.52	4.98
10 MHz	QPSK	8.92	9.80	8.96	9.80	9	10
	16QAM	8.96	9.84	8.96	9.80	9	10
15 MHz	QPSK	13.56	14.94	13.56	15.12	13.62	15.06
	16QAM	13.56	15.12	13.56	15.12	13.56	15.06
20 MHz	QPSK	17.92	19.60	18	20	18	20
	16QAM	18	20	18.08	19.76	18	20

LTE Band 5:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.104	1.266	1.098	1.254	1.104	1.254
	16QAM	1.104	1.254	1.098	1.254	1.104	1.260
3 MHz	QPSK	2.7	3.0	2.7	3.0	2.7	3.0
	16QAM	2.687	3.012	2.712	3.024	2.7	3.0
5 MHz	QPSK	4.52	5.00	4.52	5.00	4.54	4.98
	16QAM	4.54	4.98	4.54	4.98	4.52	5.02
10 MHz	QPSK	8.96	9.76	8.96	9.76	8.96	9.72
	16QAM	8.96	9.80	8.96	9.84	8.96	9.76

LTE Band 7:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
5 MHz	QPSK	4.5	5.0	4.54	5.00	4.52	5.00
	16QAM	4.54	5.02	4.52	4.98	4.54	5.00
10 MHz	QPSK	8.96	9.72	8.96	9.80	9	10
	16QAM	9	10	8.96	9.80	8.96	9.76
15 MHz	QPSK	13.560	15.000	13.560	15.060	13.560	15.060
	16QAM	13.560	15.060	13.560	15.120	13.62	15.00
20 MHz	QPSK	18.08	19.60	18	20	18	20
	16QAM	18	20	18	20	18	20

LTE Band 12:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.104	1.248	1.104	1.254	1.104	1.254
	16QAM	1.098	1.260	1.116	1.260	1.104	1.260
3 MHz	QPSK	2.7	3.0	2.7	3.0	2.7	3.0
	16QAM	2.687	2.988	2.7	3.0	2.7	3.0
5 MHz	QPSK	4.52	4.98	4.5	5.0	4.52	4.98
	16QAM	4.52	5.00	4.52	4.96	4.52	4.98
10 MHz	QPSK	8.96	9.72	8.96	9.80	8.96	9.80
	16QAM	9.00	10	8.96	9.76	8.96	9.68

LTE Band 17:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
5 MHz	QPSK	4.50	4.94	4.52	4.98	4.54	4.98
	16QAM	4.54	5.04	4.52	5.02	4.52	4.98
10 MHz	QPSK	8.96	9.72	8.96	9.80	8.96	9.76
	16QAM	8.96	9.76	8.96	9.80	8.96	9.80

LTE Band 26 (814-824MHz):

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.104	1.266	1.104	1.254	1.104	1.260
	16QAM	1.11	1.26	1.116	1.266	1.104	1.248
3 MHz	QPSK	2.7	3.0	2.7	3.0	2.7	3.00
	16QAM	2.687	3.00	2.7	3.0	2.7	3.00
5 MHz	QPSK	4.52	5.00	4.52	5.00	4.54	5.00
	16QAM	4.56	5.00	4.56	5.02	4.52	5.02
10 MHz	QPSK	/	/	8.96	9.72	/	/
	16QAM	/	/	8.96	9.72	/	/

Cross channel

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	/	/	1.104	1.258	/	/
	16QAM	/	/	1.116	1.269	/	/
3 MHz	QPSK	/	/	2.712	3.046	/	/
	16QAM	/	/	2.7	3.01	/	/
5 MHz	QPSK	/	/	4.54	5.131	/	/
	16QAM	/	/	4.52	5.019	/	/
10 MHz	QPSK	/	/	9	9.828	/	/
	16QAM	/	/	8.96	9.82	/	/
15 MHz	QPSK	13.56	15.134	13.56	15.16	/	/
	16QAM	13.62	15.192	13.56	15.24	/	/

LTE Band 26 (824-849MHz):

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.104	1.260	1.104	1.260	1.104	1.260
	16QAM	1.104	1.260	1.11	1.26	1.104	1.254
3 MHz	QPSK	2.7	3.0	2.7	3.0	2.687	3.000
	16QAM	2.7	3.0	2.7	3.0	2.7	3.0
5 MHz	QPSK	4.52	5.02	4.52	5.00	4.52	5.00
	16QAM	4.56	5.02	4.54	5.02	4.52	4.98
10 MHz	QPSK	8.96	9.76	90	10	8.96	9.72
	16QAM	8.96	9.76	8.96	9.84	8.96	9.76

LTE Band 38:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
5 MHz	QPSK	4.50	4.96	4.52	4.98	4.5	5.0
	16QAM	4.54	5.04	4.5	5.0	4.5	5.0
10 MHz	QPSK	9	10	9	10	9	10
	16QAM	8.96	9.72	9	10	8.96	9.80
15 MHz	QPSK	13.5	15.0	13.5	15.8	13.56	15.06
	16QAM	13.56	15.12	13.56	15.00	13.62	15.06
20 MHz	QPSK	18	20	18	20	18	20
	16QAM	18	20	18	20	18	20

LTE Band 41:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
5 MHz	QPSK	4.52	4.98	4.5	5.0	4.52	4.96
	16QAM	4.5	5.0	4.54	4.98	4.52	5.04
10 MHz	QPSK	9	10	9	10	8.96	9.76
	16QAM	9	10	8.96	9.84	8.96	9.72
15 MHz	QPSK	13.56	15.30	13.5	15.8	13.62	15.00
	16QAM	13.56	15.12	13.5	14.9	13.5	14.9
20 MHz	QPSK	17.92	19.44	18	20	18	20
	16QAM	18	20	18	20	18	20

LTE Band 66:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.11	1.26	1.104	1.260	1.098	1.260
	16QAM	1.098	1.248	1.104	1.266	1.11	1.26
3 MHz	QPSK	2.7	3.0	2.7	3.0	2.7	3.0
	16QAM	2.7	3.0	2.7	3.0	2.7	3.0
5 MHz	QPSK	4.52	4.96	4.52	4.98	4.52	4.98
	16QAM	4.52	5.02	4.52	5.02	4.52	4.96
10 MHz	QPSK	8.92	9.76	8.96	9.80	8.96	9.76
	16QAM	9.00	10	8.96	9.84	8.96	9.72
15 MHz	QPSK	13.56	15.00	13.5	15.2	13.5	15.1
	16QAM	13.56	15.00	13.56	15.06	13.5	14.9
20 MHz	QPSK	17.92	19.68	18	20	18	20
	16QAM	18	20	18.08	19.76	18	20

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

FCC §2.1051, §22.917(a) & §24.238(a) & §27.53 & §90.691 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

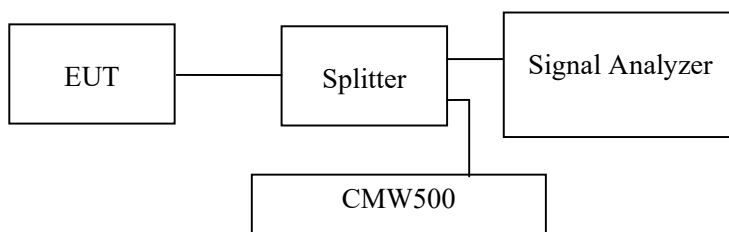
Applicable Standard

FCC §2.1051, §22.917(a) & §24.238(a) & §27.53 & §90.691.

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

Test Procedure

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 10th harmonic.



Note: the worst path loss (cable loss and splitter inset loss) among the test frequency range has included in plot.

Test Data

Environmental Conditions

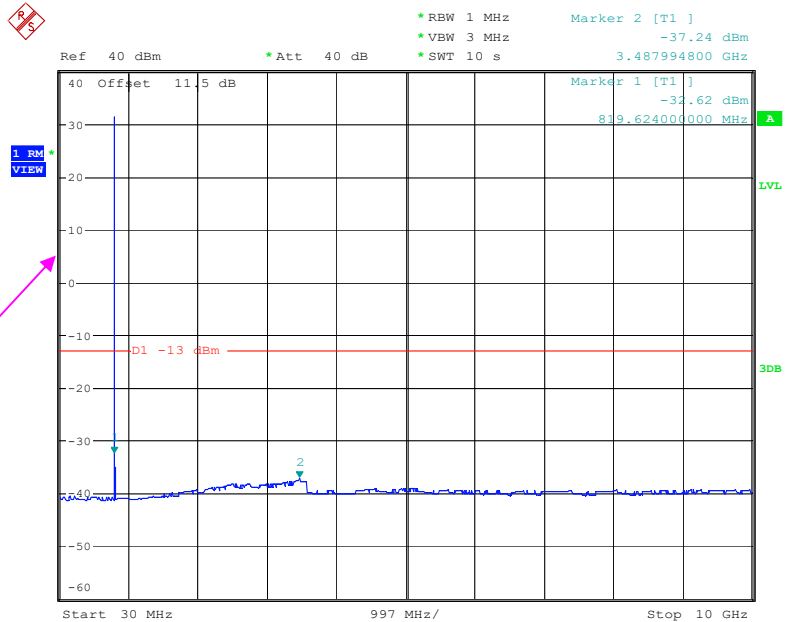
Temperature:	27.5~28.4 °C
Relative Humidity:	48.2~52.6 %
ATM Pressure:	101.0 kPa

The testing was performed by Jacob Huang from 2023-05-26 to 2023-06-06.

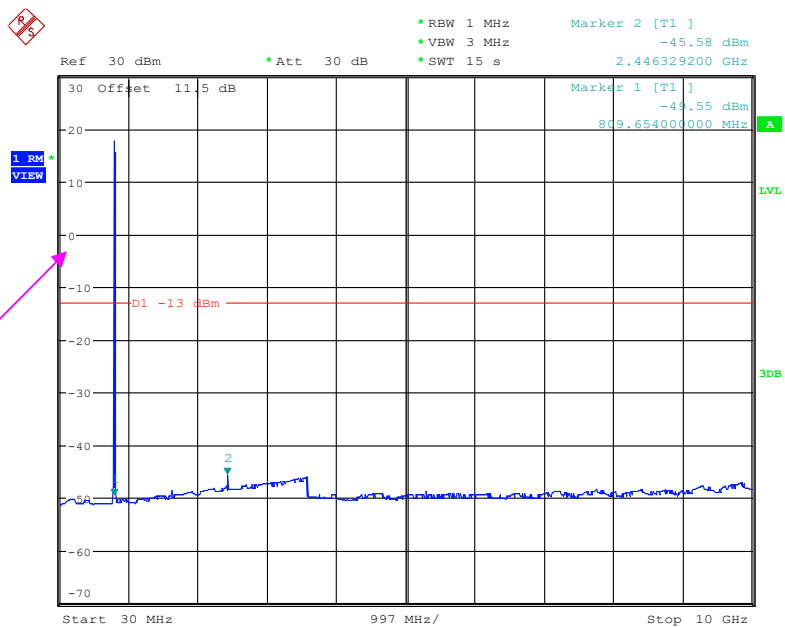
EUT operation mode: Transmitting

Test result: Pass

Please refer to the following plots.

Cellular Band (Part 22H)
Low Channel:**30 MHz – 10 GHz (GSM Mode)**

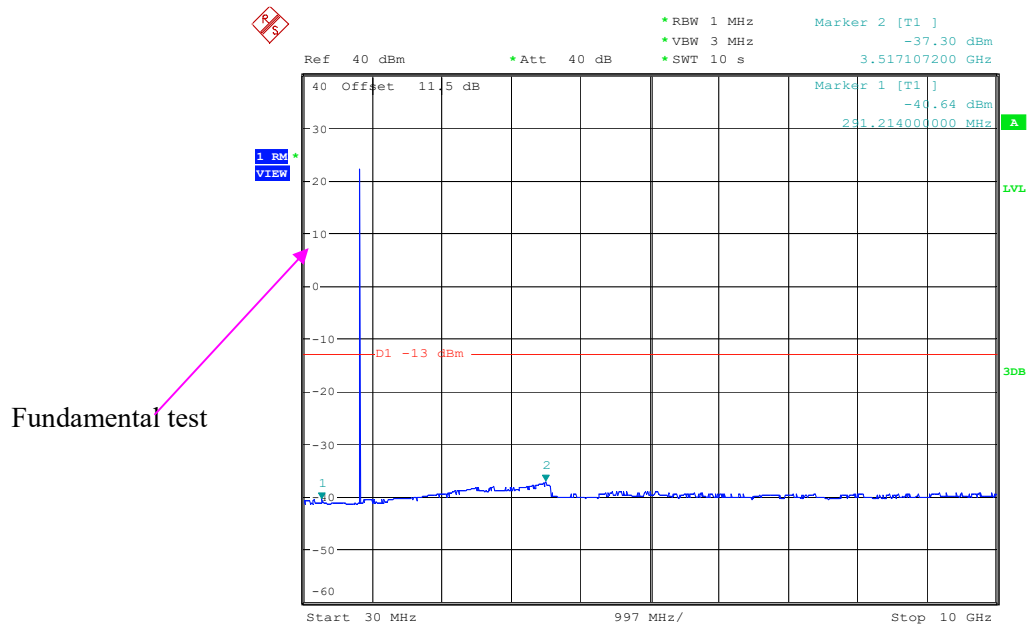
Date: 29.MAY.2023 13:12:47

30 MHz – 10 GHz (WCDMA Mode)

Date: 29.MAY.2023 19:13:36

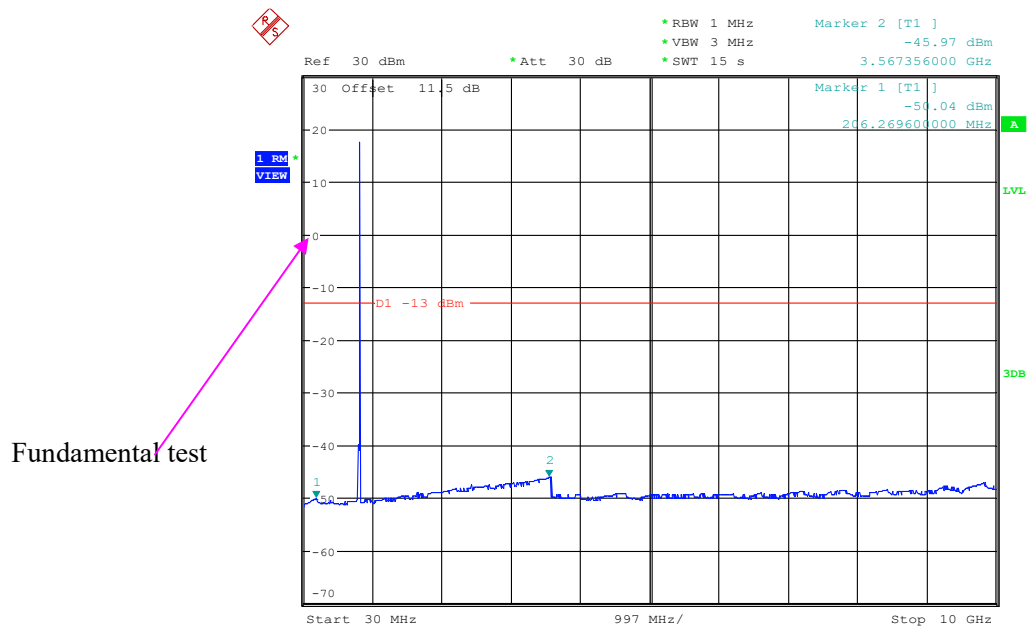
Middle Channel:

30 MHz – 10 GHz (GSM Mode)

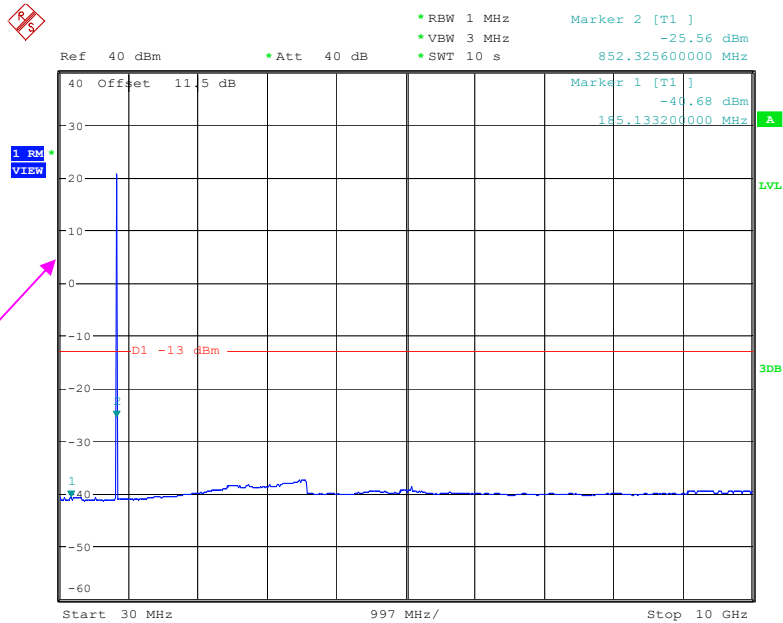


Date: 29.MAY.2023 13:20:11

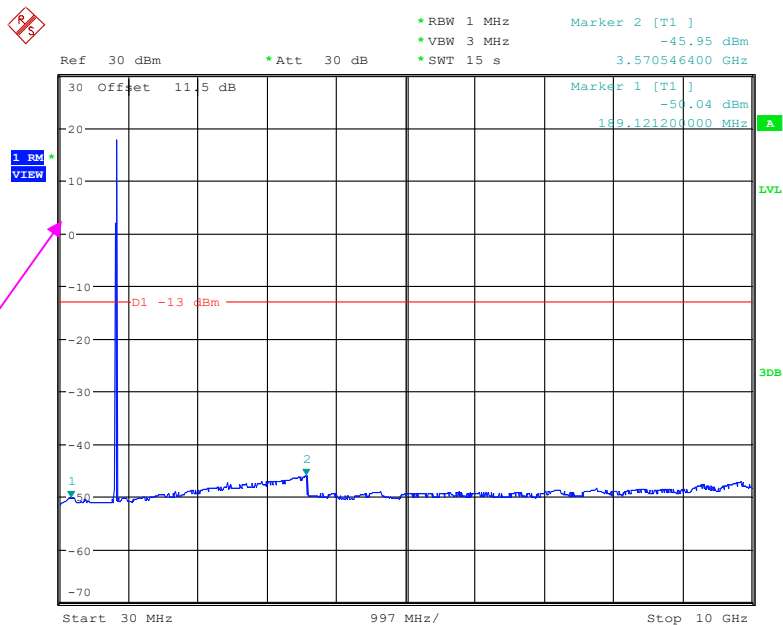
30 MHz – 10 GHz (WCDMA Mode)



Date: 29.MAY.2023 19:06:41

High Channel:**30 MHz – 10 GHz (GSM Mode)**

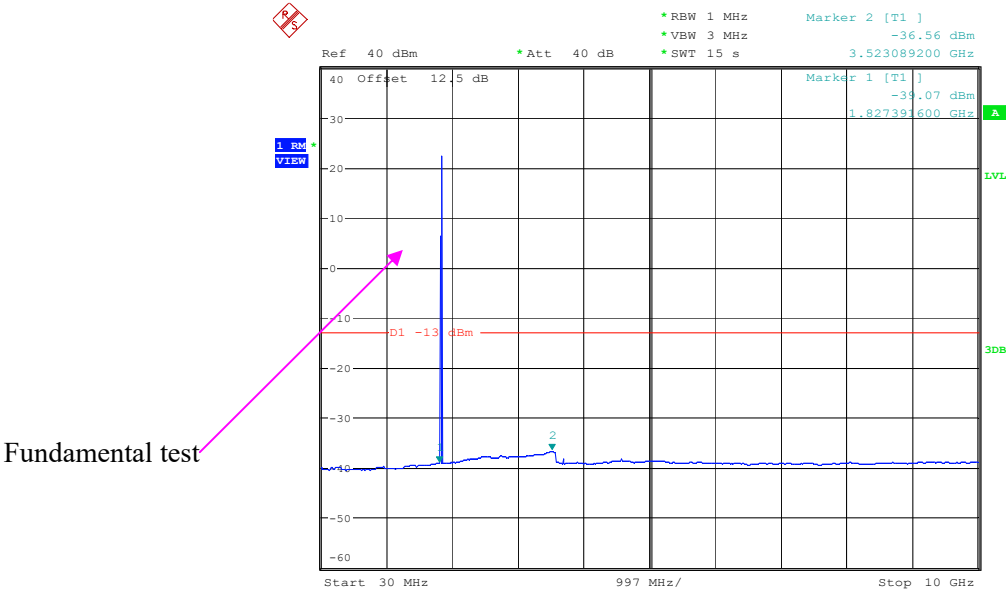
Date: 29.MAY.2023 13:27:40

30 MHz – 10 GHz (WCDMA Mode)

Date: 29.MAY.2023 19:16:43

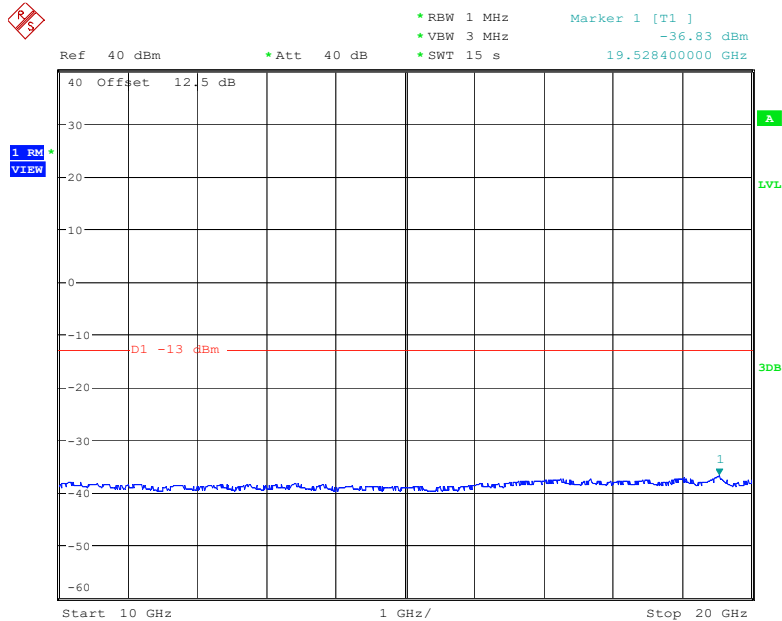
PCS Band (Part 24E)
Low Channel:

30 MHz – 10 GHz (GSM Mode)



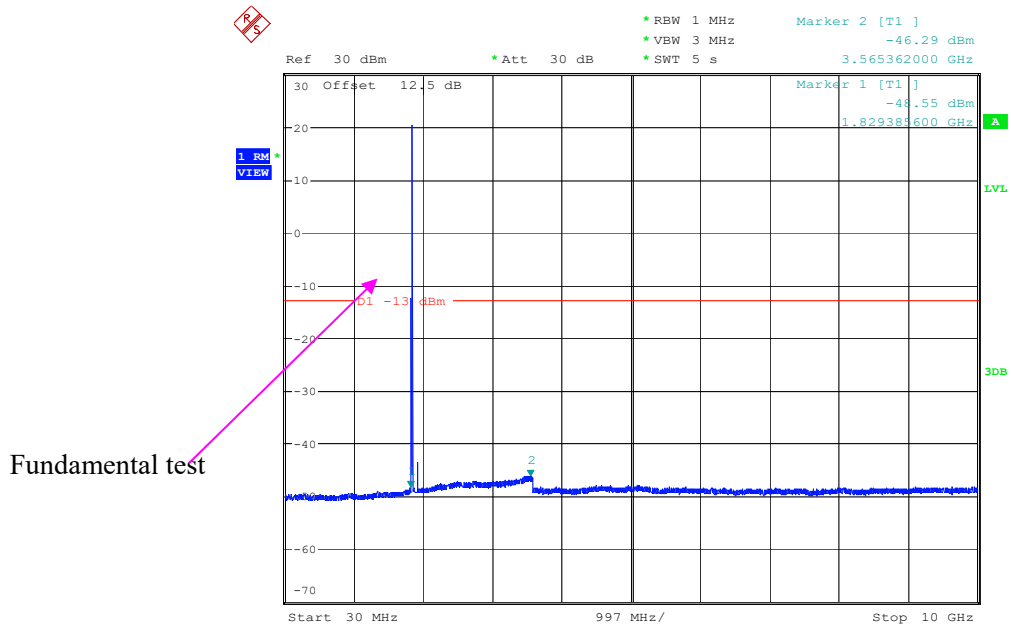
Date: 29.MAY.2023 15:56:17

10 GHz – 20 GHz (GSM Mode)



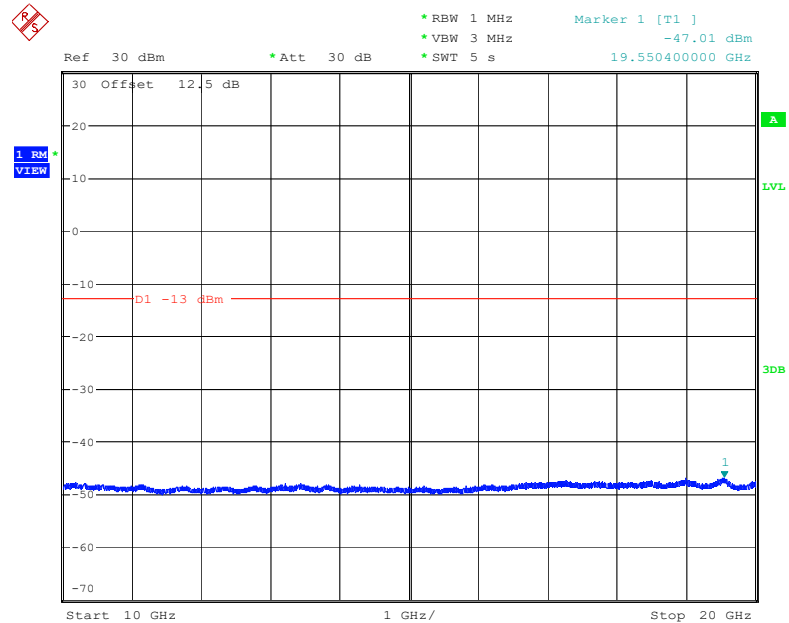
Date: 29.MAY.2023 15:57:05

30 MHz – 10 GHz (WCDMA Mode)



Date: 29.MAY.2023 16:32:34

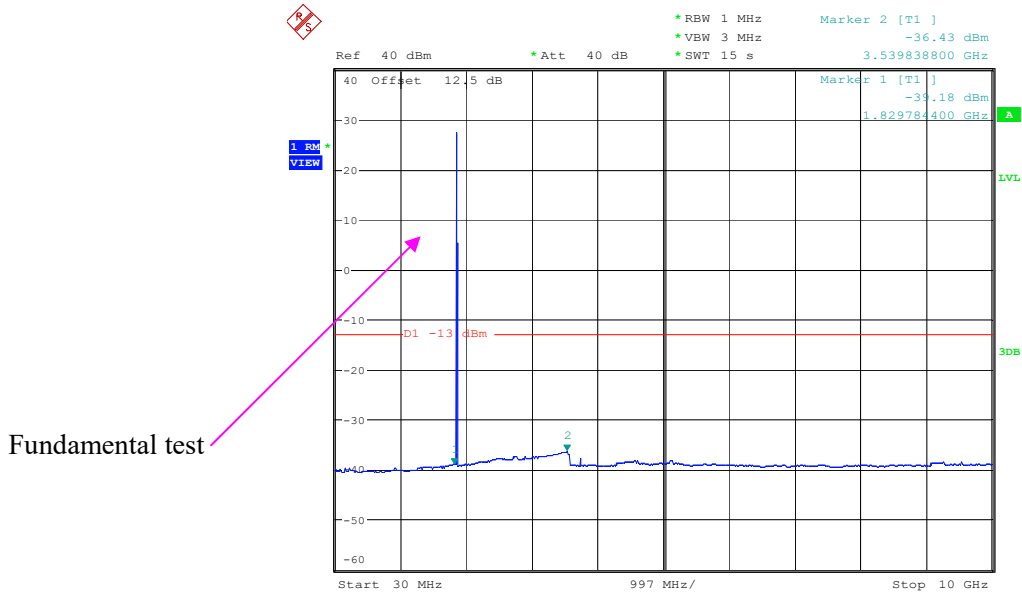
10 GHz – 20 GHz (WCDMA Mode)



Date: 29.MAY.2023 16:33:03

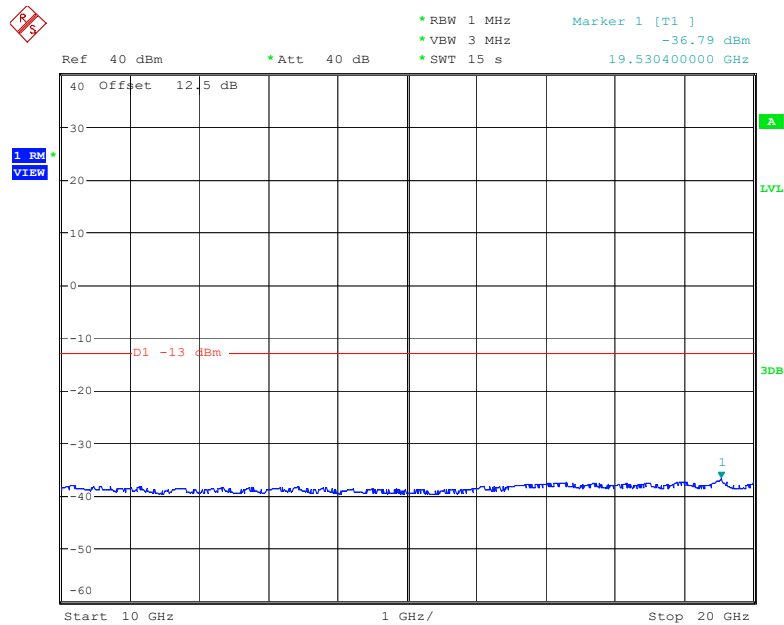
Middle Channel:

30 MHz – 10 GHz (GSM Mode)



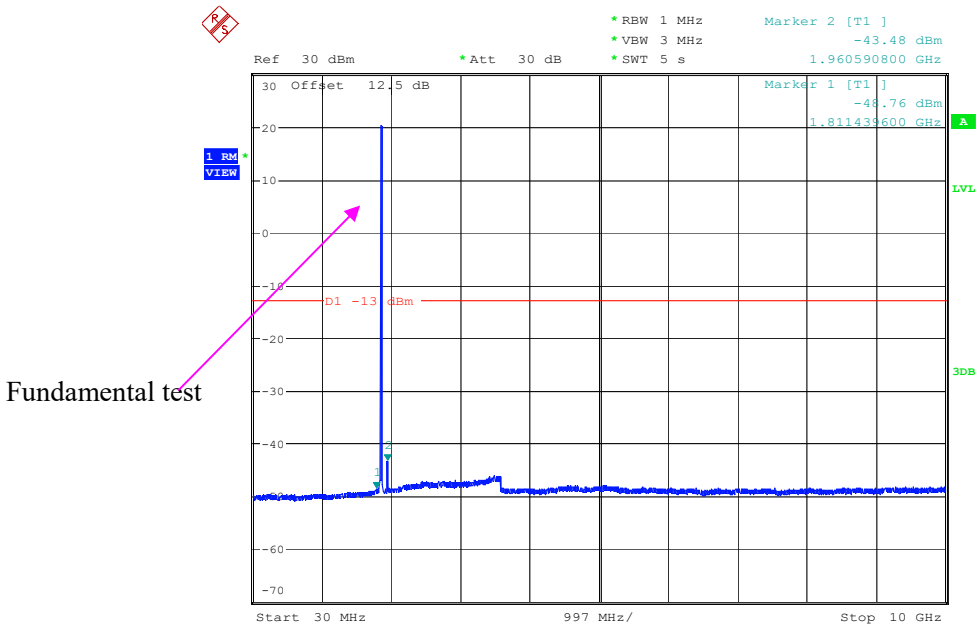
Date: 29.MAY.2023 15:48:15

10 GHz – 20 GHz (GSM Mode)



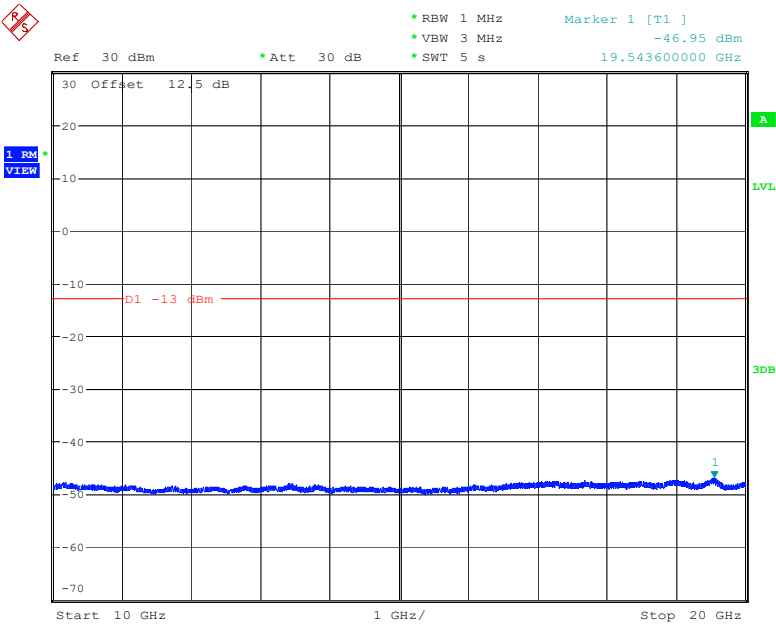
Date: 29.MAY.2023 15:49:04

30 MHz – 10 GHz (WCDMA Mode)



Date: 29.MAY.2023 16:35:19

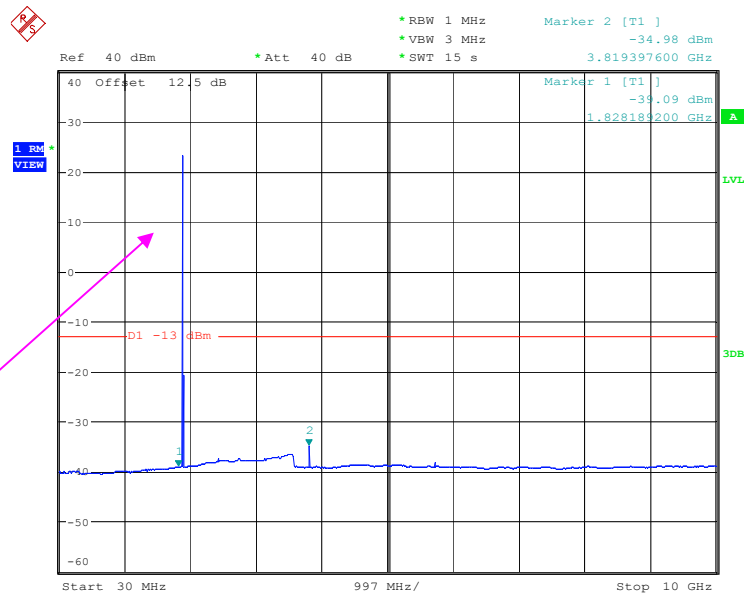
10 GHz – 20 GHz (WCDMA Mode)



Date: 29.MAY.2023 16:35:47

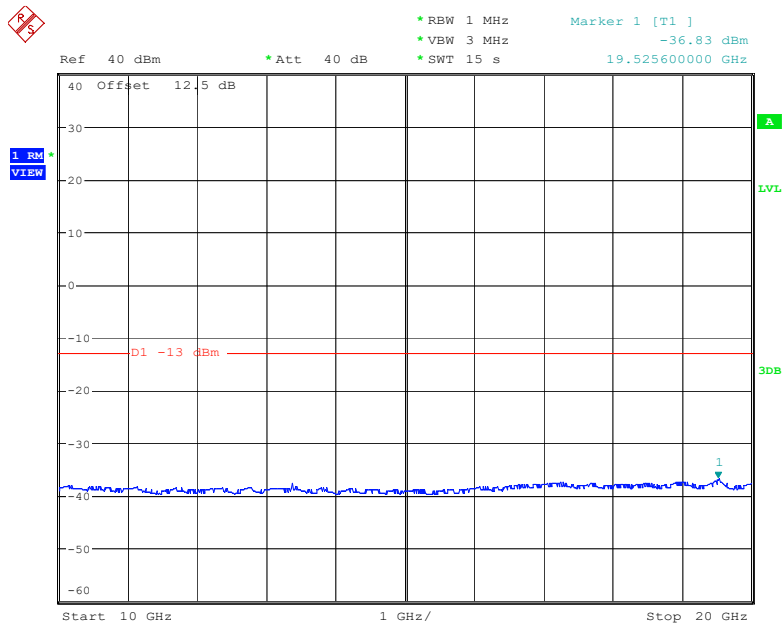
High Channel:

30 MHz – 10 GHz (GSM Mode)



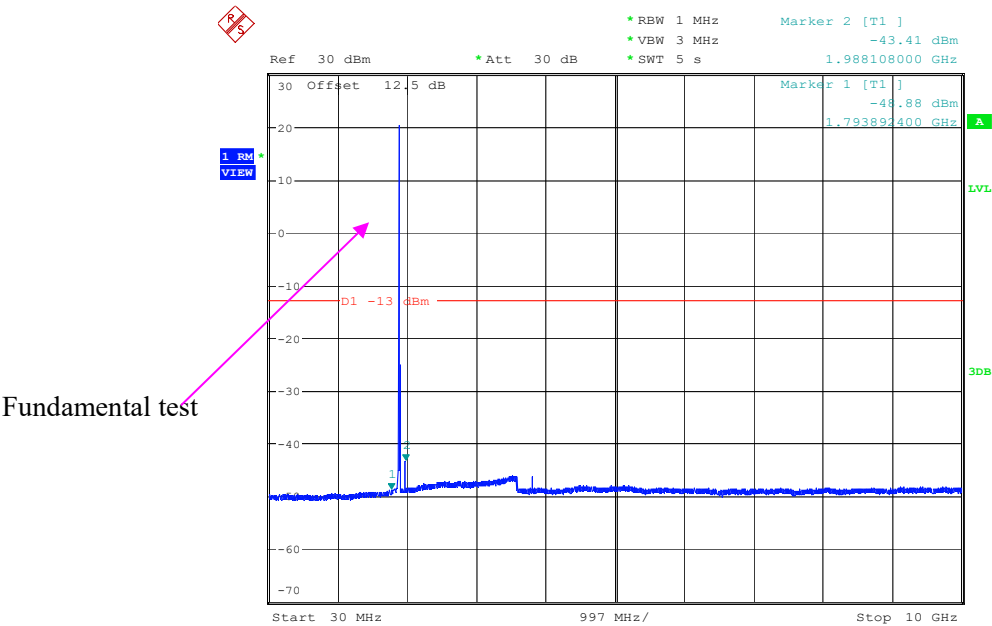
Date: 29.MAY.2023 15:43:07

10 GHz – 20 GHz (GSM Mode)



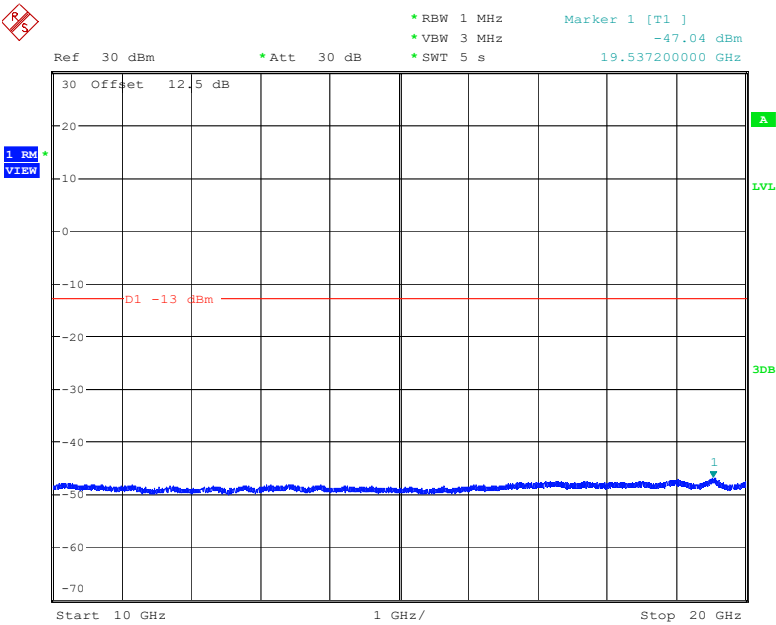
Date: 29.MAY.2023 15:43:57

30 MHz – 10 GHz (WCDMA Mode)



Date: 29.MAY.2023 16:38:18

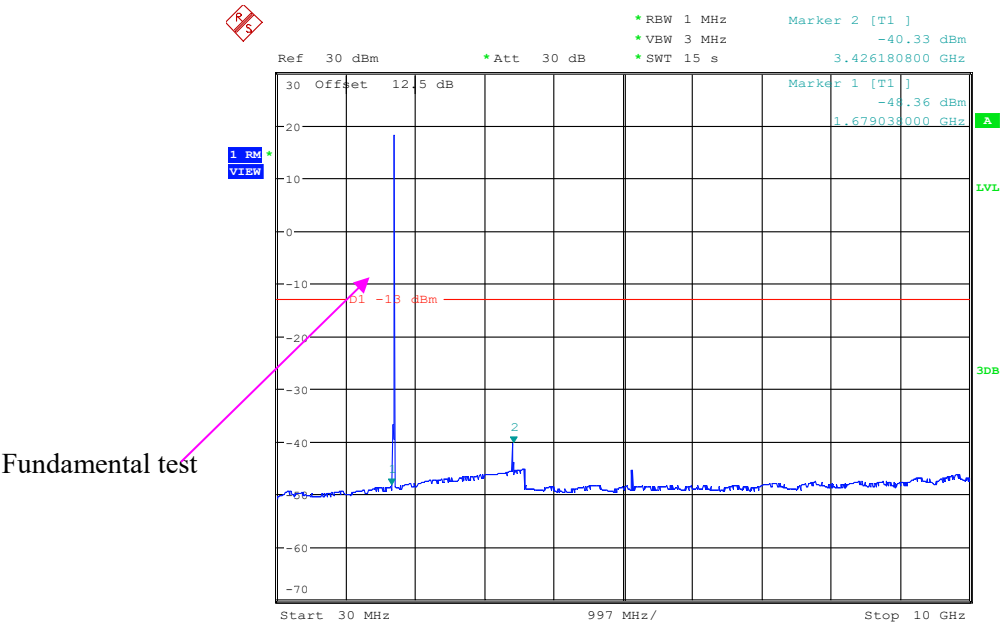
10 GHz – 20 GHz (WCDMA Mode)



Date: 29.MAY.2023 16:38:47

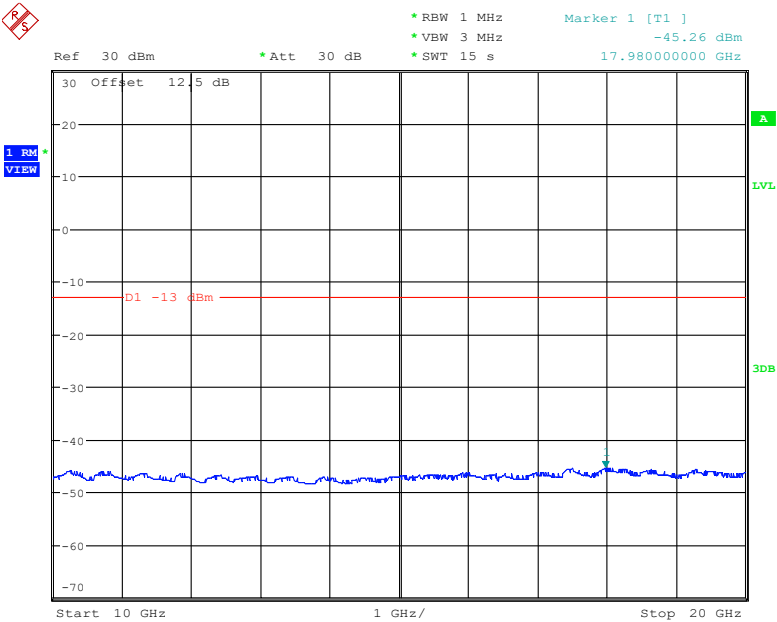
AWS Band
Low Channel:

30 MHz – 10 GHz (WCDMA Mode)



Date: 29.MAY.2023 18:04:15

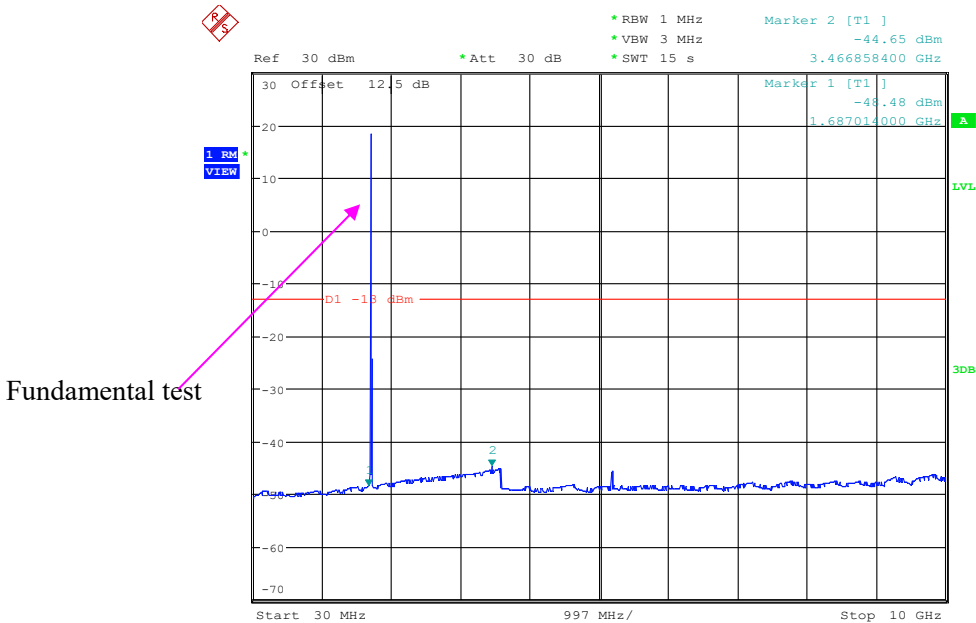
10 GHz – 20 GHz (WCDMA Mode)



Date: 29.MAY.2023 18:05:05

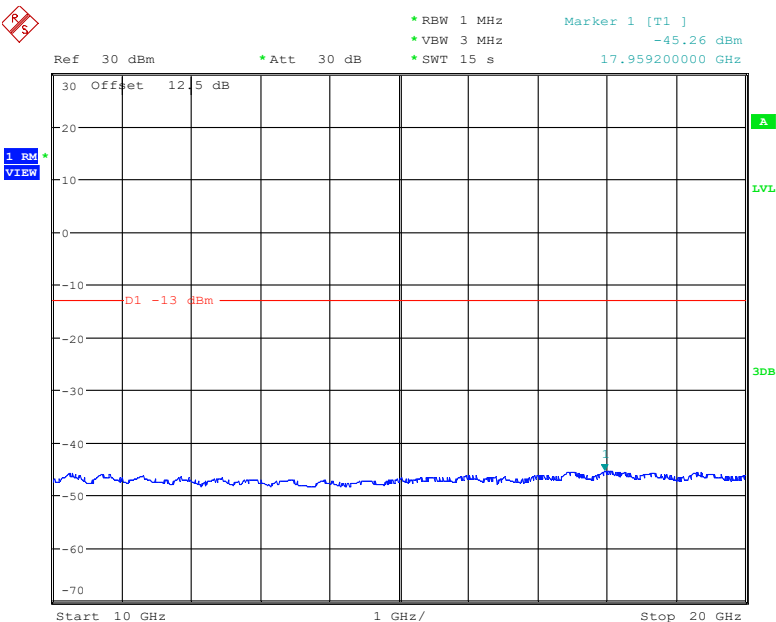
Middle Channel:

30 MHz – 10 GHz (WCDMA Mode)

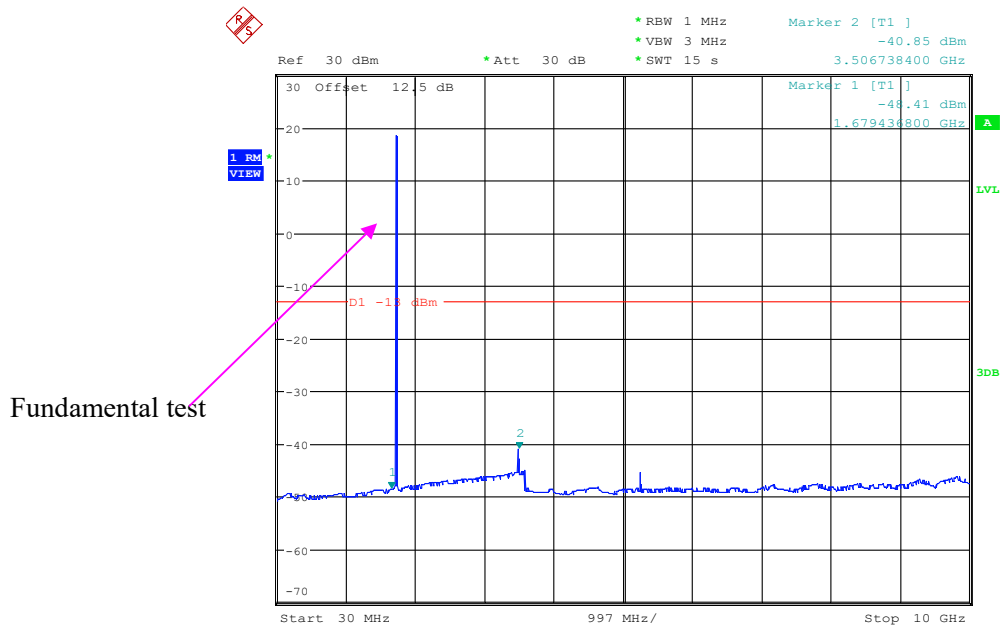


Date: 29.MAY.2023 18:10:30

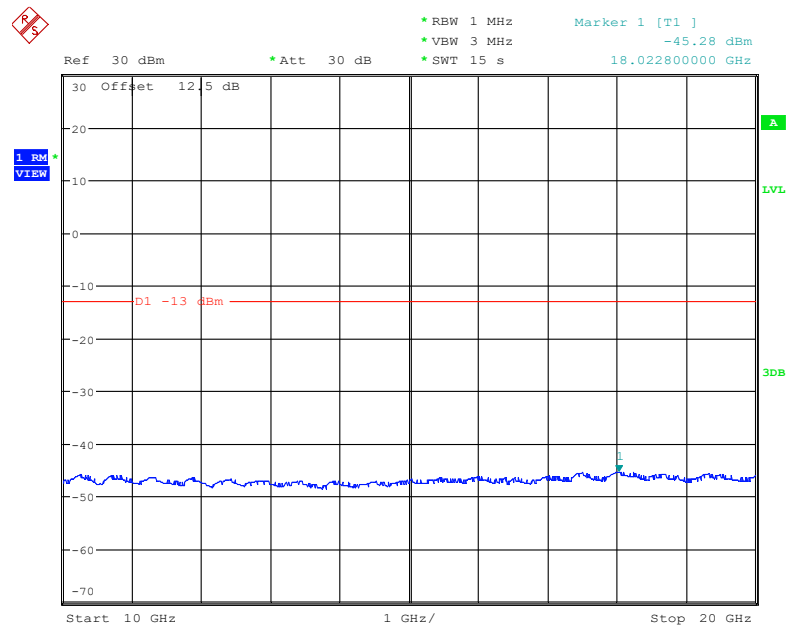
10 GHz – 20 GHz (WCDMA Mode)



Date: 29.MAY.2023 18:11:20

High Channel:**30 MHz – 10 GHz (WCDMA Mode)**

Date: 29.MAY.2023 18:14:55

10 GHz – 20 GHz (WCDMA Mode)

Date: 29.MAY.2023 18:15:45

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

FCC § 2.1053; § 22.917 (a);§ 24.238 (a); §27.53; §90.691- SPURIOUS RADIATED EMISSIONS

Applicable Standard

FCC § 2.1053, §22.917(a)& § 24.238(a) &§ 27.53 &§90.691.

Test Procedure

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:	25.5°C
Relative Humidity:	52%
ATM Pressure:	101.0kPa

The testing was performed by Jason Liu on 2023-05-28.

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

The worst case is as below:

30MHz-10GHz

Cellular Band (Part 22H)

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Low Channel 824.2MHz								
1648.4	-50.00	298	2.5	H	0.4	-49.60	-13	-36.60
1648.4	-49.90	326	1.8	V	0.1	-49.80	-13	-36.80
2472.6	-47.20	94	2.2	H	3.6	-43.60	-13	-30.60
2472.6	-46.10	25	1.1	V	4.2	-41.90	-13	-28.90
3296.8	-45.50	64	1.5	H	4.1	-41.40	-13	-28.40
3296.8	-46.70	105	1.4	V	4.4	-42.30	-13	-29.30
Middle Channel 836.6MHz								
1673.2	-46.70	297	2.1	H	0.5	-46.20	-13	-33.20
1673.2	-47.50	280	1.8	V	0.5	-47.00	-13	-34.00
2509.8	-46.90	104	1	H	3.6	-43.30	-13	-30.30
2509.8	-45.30	171	1.4	V	3.9	-41.40	-13	-28.40
3346.4	-45.10	316	1.9	H	4.1	-41.00	-13	-28.00
3346.4	-46.30	176	2.2	V	4.1	-42.20	-13	-29.20
High Channel 848.8MHz								
1697.6	-45.90	153	1.3	H	0.5	-45.40	-13	-32.40
1697.6	-47.00	350	1.4	V	0.9	-46.10	-13	-33.10
2546.4	-46.10	277	2	H	3.5	-42.60	-13	-29.60
2546.4	-44.50	220	2.1	V	3.8	-40.70	-13	-27.70
3395.2	-45.20	235	2.1	H	4.5	-40.70	-13	-27.70
3395.2	-46.70	147	1.6	V	5.1	-41.60	-13	-28.60

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
WCDMA Band5,826.4MHz								
1652.8	-48.10	44	2.1	H	0.4	-47.70	-13	-34.70
1652.8	-48.40	291	2.2	V	0.2	-48.20	-13	-35.20
2479.2	-51.80	138	1.3	H	3.6	-48.20	-13	-35.20
2479.2	-51.10	259	1.6	V	4.1	-47.00	-13	-34.00
3305.6	-47.00	298	1.2	H	4.1	-42.90	-13	-29.90
3305.6	-47.80	223	2	V	4.3	-43.50	-13	-30.50
WCDMA Band5,836.6MHz								
1673.2	-47.70	222	1.3	H	0.5	-47.20	-13	-34.20
1673.2	-48.20	79	1.1	V	0.5	-47.70	-13	-34.70
2509.8	-51.30	21	1.3	H	3.6	-47.70	-13	-34.70
2509.8	-50.50	15	1.7	V	3.9	-46.60	-13	-33.60
3346.4	-46.60	142	2.1	H	4.1	-42.50	-13	-29.50
3346.4	-47.40	94	2.5	V	4.1	-43.30	-13	-30.30
WCDMA Band5,846.6MHz								
1693.2	-47.00	0	1.5	H	0.5	-46.50	-13	-33.50
1693.2	-47.90	134	1	V	0.9	-47.00	-13	-34.00
2539.8	-50.20	100	2.3	H	3.5	-46.70	-13	-33.70
2539.8	-49.40	146	2	V	3.8	-45.60	-13	-32.60
3386.4	-46.30	311	1.7	H	4.4	-41.90	-13	-28.90
3386.4	-46.90	40	1.6	V	4.9	-42.00	-13	-29.00

30MHz-20GHz:**PCS Band (Part 24E)**

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substitute d Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Low Channel 1850.2MHz								
3700.4	-43.30	53	2.4	H	5.9	-37.40	-13	-24.40
3700.4	-44.40	228	1.4	V	6.4	-38.00	-13	-25.00
5550.6	-49.70	69	2.1	H	9.1	-40.60	-13	-27.60
5550.6	-50.30	90	2	V	9.5	-40.80	-13	-27.80
Middle Channel 1880MHz								
3760.0	-43.50	327	1.4	H	6.2	-37.30	-13	-24.30
3760.0	-44.80	69	2.3	V	6.7	-38.10	-13	-25.10
5640.0	-49.40	32	1.8	H	9.1	-40.30	-13	-27.30
5640.0	-49.90	337	2.5	V	9.3	-40.60	-13	-27.60
High Channel 1909.80MHz								
3819.6	-42.40	359	1.6	H	6.1	-36.30	-13	-23.30
3819.6	-43.60	50	2.1	V	6.4	-37.20	-13	-24.20
5729.4	-49.20	131	1.4	H	9.1	-40.10	-13	-27.10
5729.4	-49.50	171	2.3	V	9.5	-40.00	-13	-27.00
WCDMA Band2,1852.4MHz								
3704.8	-48.90	44	2.4	H	5.9	-43.00	-13	-30.00
3704.8	-48.30	207	2.3	V	6.4	-41.90	-13	-28.90
5557.2	-50.60	47	2.1	H	9.1	-41.50	-13	-28.50
5557.2	-50.00	255	2.3	V	9.5	-40.50	-13	-27.50
WCDMA Band2,1880MHz								
3760.0	-49.10	184	2	H	6.2	-42.90	-13	-29.90
3760.0	-48.70	67	1.2	V	6.7	-42.00	-13	-29.00
5640.0	-50.10	320	1.5	H	9.1	-41.00	-13	-28.00
5640.0	-49.50	291	1.7	V	9.3	-40.20	-13	-27.20
WCDMA Band2,1907.6MHz								
3815.2	-48.80	231	2.1	H	6.2	-42.60	-13	-29.60
3815.2	-47.90	320	1.9	V	6.4	-41.50	-13	-28.50
5722.8	-50.00	71	2.2	H	9.1	-40.90	-13	-27.90
5722.8	-49.10	247	1.9	V	9.5	-39.60	-13	-26.60

AWS Band (Part 27)

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substitute d Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
WCDMA Band2,1712.4MHz								
3424.8	-46.70	113	2.3	H	4.9	-41.80	-13	-28.80
3424.8	-46.30	102	2.1	V	5.3	-41.00	-13	-28.00
5137.2	-51.10	359	1.2	H	9	-42.10	-13	-29.10
5137.2	-50.80	214	2.2	V	9.3	-41.50	-13	-28.50
WCDMA Band2,1732.6MHz								
3465.2	-46.60	78	1.8	H	5.3	-41.30	-13	-28.30
3465.2	-47.00	297	2	V	5.5	-41.50	-13	-28.50
5197.8	-50.00	79	1.3	H	8.4	-41.60	-13	-28.60
5197.8	-49.50	199	1.3	V	8.9	-40.60	-13	-27.60
WCDMA Band2,1752.6MHz								
3505.2	-46.10	123	2.4	H	5.7	-40.40	-13	-27.40
3505.2	-46.70	248	1	V	5.9	-40.80	-13	-27.80
5257.8	-49.00	147	2.1	H	8.2	-40.80	-13	-27.80
5257.8	-48.10	169	2	V	8.5	-39.60	-13	-26.60

LTE Band: (Pre-scan all bandwidth/modulation, the worst case as below)

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 2								
Test frequency range: 30MHz-20GHz								
1.4MHz bandwidth, QPSK, Low channel								
3701.4	-48.50	325	2	H	5.9	-42.60	-13	-29.60
3701.4	-47.70	139	1.4	V	6.4	-41.30	-13	-28.30
5552.1	-51.30	179	1.9	H	9.1	-42.20	-13	-29.20
5552.1	-50.80	16	1.5	V	9.5	-41.30	-13	-28.30
1.4MHz bandwidth, QPSK, Middle channel								
3760.0	-48.40	333	1.8	H	6.2	-42.20	-13	-29.20
3760.0	-47.90	309	2.4	V	6.7	-41.20	-13	-28.20
5640.0	-50.90	133	1.6	H	9.1	-41.80	-13	-28.80
5640.0	-50.30	7	1.9	V	9.3	-41.00	-13	-28.00
1.4MHz bandwidth, QPSK, High channel								
3818.6	-47.30	302	1.4	H	6.1	-41.20	-13	-28.20
3818.6	-46.70	22	1.9	V	6.4	-40.30	-13	-27.30
5727.9	-50.40	166	1.8	H	9.1	-41.30	-13	-28.30
5727.9	-49.60	316	2.2	V	9.5	-40.10	-13	-27.10

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 4								
Test frequency range: 30MHz-20GHz								
1.4MHz bandwidth, QPSK, Low channel								
3421.4	-44.60	222	1.7	H	4.8	-39.80	-13	-26.80
3421.4	-44.30	93	2.4	V	5.3	-39.00	-13	-26.00
5132.1	-46.30	139	1.9	H	9	-37.30	-13	-24.30
5132.1	-46.00	110	1.6	V	9.3	-36.70	-13	-23.70
1.4MHz bandwidth, QPSK, Middle channel								
3465.0	-44.60	259	1.4	H	5.3	-39.30	-13	-26.30
3465.0	-45.00	42	1	V	5.5	-39.50	-13	-26.50
5197.5	-45.10	84	2.1	H	8.4	-36.70	-13	-23.70
5197.5	-44.50	252	1.8	V	8.9	-35.60	-13	-22.60
1.4MHz bandwidth, QPSK, High channel								
3508.6	-43.90	249	1.3	H	5.7	-38.20	-13	-25.20
3508.6	-44.20	20	2.3	V	5.9	-38.30	-13	-25.30
5262.9	-43.80	305	1	H	8.3	-35.50	-13	-22.50
5262.9	-42.80	100	2.4	V	8.5	-34.30	-13	-21.30

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 5								
Test frequency range: 30MHz-10GHz								
1.4MHz bandwidth, QPSK, Low channel								
1649.4	-45.20	339	2.3	H	0.4	-44.80	-13	-31.80
1649.4	-45.40	98	1.3	V	0.1	-45.30	-13	-32.30
2474.1	-45.10	59	1.4	H	3.6	-41.50	-13	-28.50
2474.1	-45.70	138	1.8	V	4.2	-41.50	-13	-28.50
3298.8	-46.40	338	2.3	H	4.1	-42.30	-13	-29.30
3298.8	-47.20	74	1.3	V	4.3	-42.90	-13	-29.90
1.4MHz bandwidth, QPSK, Middle channel								
1673.0	-42.80	103	1.2	H	0.5	-42.30	-13	-29.30
1673.0	-43.10	84	2.1	V	0.5	-42.60	-13	-29.60
2509.5	-44.80	192	1.7	H	3.6	-41.20	-13	-28.20
2509.5	-45.00	228	1.9	V	3.9	-41.10	-13	-28.10
3346.0	-46.10	358	2.1	H	4.1	-42.00	-13	-29.00
3346.0	-46.70	292	1.6	V	4.1	-42.60	-13	-29.60
1.4MHz bandwidth, QPSK, High channel								
1696.6	-41.90	63	1.7	H	0.5	-41.40	-13	-28.40
1696.6	-42.60	58	1.9	V	0.9	-41.70	-13	-28.70
2544.9	-43.50	316	2	H	3.5	-40.00	-13	-27.00
2544.9	-43.70	79	2	V	3.8	-39.90	-13	-26.90
3393.2	-45.90	95	1.9	H	4.5	-41.40	-13	-28.40
3393.2	-46.80	291	1.5	V	5.1	-41.70	-13	-28.70

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 7								
Test frequency range: 30MHz-26.5GHz								
5MHz bandwidth, QPSK, Low channel								
5005.0	-50.10	173	2.3	H	9.3	-40.80	-25	-15.80
5005.0	-48.80	39	1.4	V	9.2	-39.60	-25	-14.60
7507.5	-55.60	66	1.7	H	15.4	-40.20	-25	-15.20
7507.5	-55.00	76	1.1	V	15.7	-39.30	-25	-14.30
5MHz bandwidth, QPSK, Middle channel								
5070.0	-48.50	292	2.4	H	9.1	-39.40	-25	-14.40
5070.0	-48.30	98	1.7	V	9.3	-39.00	-25	-14.00
7605.0	-56.60	206	2.3	H	15.7	-40.90	-25	-15.90
7605.0	-55.80	144	1.8	V	15.6	-40.20	-25	-15.20
5MHz bandwidth, QPSK, High channel								
5135.0	-47.60	150	1.9	H	9	-38.60	-25	-13.60
5135.0	-47.00	51	1.8	V	9.3	-37.70	-25	-12.70
7702.5	-55.70	342	1.2	H	15.5	-40.20	-25	-15.20
7702.5	-54.30	28	2.1	V	15.8	-38.50	-25	-13.50

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 12								
Test frequency range: 30MHz-10GHz								
1.4MHz bandwidth, QPSK, Low channel								
1399.4	-50.70	104	1.3	H	1.6	-49.10	-13	-36.10
1399.4	-51.80	229	2.1	V	1.8	-50.00	-13	-37.00
2099.1	-47.30	84	1.6	H	3.8	-43.50	-13	-30.50
2099.1	-48.60	273	1.8	V	3.8	-44.80	-13	-31.80
2798.8	-51.10	284	1.1	H	3.8	-47.30	-13	-34.30
2798.8	-52.00	285	1.3	V	4.5	-47.50	-13	-34.50
1.4MHz bandwidth, QPSK, Middle channel								
1415.0	-50.30	265	2	H	1.7	-48.60	-13	-35.60
1415.0	-51.30	179	2.4	V	1.8	-49.50	-13	-36.50
2122.5	-47.20	239	2.2	H	4	-43.20	-13	-30.20
2122.5	-48.60	219	1.6	V	4	-44.60	-13	-31.60
2830.0	-51.20	310	1.7	H	4.2	-47.00	-13	-34.00
2830.0	-52.00	85	1.1	V	4.7	-47.30	-13	-34.30
1.4MHz bandwidth, QPSK, High channel								
1430.6	-49.00	2	2.3	H	1.7	-47.30	-13	-34.30
1430.6	-50.20	222	2.2	V	1.8	-48.40	-13	-35.40
2145.9	-46.30	281	1.4	H	4.2	-42.10	-13	-29.10
2145.9	-47.60	339	2	V	4.2	-43.40	-13	-30.40
2861.2	-51.10	18	1.6	H	4.6	-46.50	-13	-33.50
2861.2	-51.90	1	2.1	V	4.8	-47.10	-13	-34.10

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 17								
Test frequency range: 30MHz-10GHz								
5MHz bandwidth, QPSK, Low channel								
1413.0	-53.50	336	2	H	1.7	-51.80	-13	-38.80
1413.0	-53.20	129	1	V	1.8	-51.40	-13	-38.40
2119.5	-47.50	1	1.6	H	4	-43.50	-13	-30.50
2119.5	-47.80	94	1.3	V	4	-43.80	-13	-30.80
2826.0	-51.60	316	2.2	H	4.2	-47.40	-13	-34.40
2826.0	-51.10	291	2.4	V	4.6	-46.50	-13	-33.50
5MHz bandwidth, QPSK, Middle channel								
1420.0	-52.90	46	2.3	H	1.7	-51.20	-13	-38.20
1420.0	-52.80	234	2.2	V	1.8	-51.00	-13	-38.00
2130.0	-47.20	27	1.1	H	4	-43.20	-13	-30.20
2130.0	-47.60	276	1.1	V	4.1	-43.50	-13	-30.50
2840.0	-51.40	311	1.8	H	4.4	-47.00	-13	-34.00
2840.0	-50.80	45	1.9	V	4.7	-46.10	-13	-33.10
5MHz bandwidth, QPSK, High channel								
1427.0	-52.10	106	1.9	H	1.7	-50.40	-13	-37.40
1427.0	-51.70	205	1.4	V	1.8	-49.90	-13	-36.90
2140.5	-46.70	45	1.6	H	4.1	-42.60	-13	-29.60
2140.5	-47.10	0	2	V	4.2	-42.90	-13	-29.90
2854.0	-51.30	321	1.1	H	4.6	-46.70	-13	-33.70
2854.0	-51.00	82	2.4	V	4.8	-46.20	-13	-33.20

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 26								
Test frequency range: 30MHz-10GHz								
1.4MHz, QPSK, Low Channel								
1629.4	-43.80	93	2.3	H	0.5	-43.30	-13	-30.30
1629.4	-44.30	146	2.4	V	0.3	-44.00	-13	-31.00
2444.1	-48.00	91	1.8	H	3.7	-44.30	-13	-31.30
2444.1	-48.60	64	1.9	V	4.3	-44.30	-13	-31.30
3258.8	-45.90	107	1.5	H	4.3	-41.60	-13	-28.60
3258.8	-46.90	139	1.4	V	4.7	-42.20	-13	-29.20
1.4MHz, QPSK, Middle Channel								
1663.0	-41.00	320	1.4	H	0.4	-40.60	-13	-27.60
1663.0	-41.10	292	1.2	V	0.3	-40.80	-13	-27.80
2494.5	-46.60	273	1.8	H	3.6	-43.00	-13	-30.00
2494.5	-47.60	272	1.2	V	4	-43.60	-13	-30.60
3326.0	-45.50	68	2.4	H	4.1	-41.40	-13	-28.40
3326.0	-46.20	197	1.3	V	4.2	-42.00	-13	-29.00
1.4MHz, QPSK, High Channel								
1696.6	-40.10	336	1.4	H	0.5	-39.60	-13	-26.60
1696.6	-41.00	73	1.6	V	0.9	-40.10	-13	-27.10
2544.9	-45.10	100	2.1	H	3.5	-41.60	-13	-28.60
2544.9	-45.80	142	2.4	V	3.8	-42.00	-13	-29.00
3393.2	-45.60	256	2	H	4.5	-41.10	-13	-28.10
3393.2	-46.60	23	2.3	V	5.1	-41.50	-13	-28.50

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 38								
Test frequency range: 30MHz-26.5GHz								
5MHz bandwidth, QPSK, Low channel								
5145.0	-47.40	115	1.4	H	9	-38.40	-25	-13.40
5145.0	-46.80	172	1	V	9.4	-37.40	-25	-12.40
7717.5	-55.40	17	2.3	H	15.5	-39.90	-25	-14.90
7717.5	-54.70	156	1.7	V	15.9	-38.80	-25	-13.80
5MHz bandwidth, QPSK, Middle channel								
5190.0	-46.70	129	2.4	H	8.5	-38.20	-25	-13.20
5190.0	-45.50	124	2.5	V	9	-36.50	-25	-11.50
7785.0	-54.30	11	1.8	H	15.5	-38.80	-25	-13.80
7785.0	-53.70	69	1.4	V	15.6	-38.10	-25	-13.10
5MHz bandwidth, QPSK, High channel								
5235.0	-44.90	307	2.4	H	8.2	-36.70	-25	-11.70
5235.0	-43.70	77	1.8	V	8.6	-35.10	-25	-10.10
7852.5	-53.70	15	1.8	H	15.4	-38.30	-25	-13.30
7852.5	-53.30	149	2.2	V	16	-37.30	-25	-12.30

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 41								
Test frequency range: 30MHz-26.5GHz								
5MHz bandwidth, QPSK, Low channel								
5075.0	-47.50	2	2.3	H	9	-38.50	-25	-13.50
5075.0	-46.70	242	1.1	V	9.3	-37.40	-25	-12.40
7612.5	-54.80	347	1.1	H	15.7	-39.10	-25	-14.10
7612.5	-54.00	127	1.6	V	15.7	-38.30	-25	-13.30
5MHz bandwidth, QPSK, Middle channel								
5190.0	-46.60	183	2.3	H	8.5	-38.10	-25	-13.10
5190.0	-45.40	228	2.1	V	9	-36.40	-25	-11.40
7785.0	-53.70	145	1.6	H	15.5	-38.20	-25	-13.20
7785.0	-53.20	63	1.2	V	15.6	-37.60	-25	-12.60
5MHz bandwidth, QPSK, High channel								
5305.0	-44.90	307	2.3	H	8.6	-36.30	-25	-11.30
5305.0	-43.00	188	2.2	V	8.6	-34.40	-25	-9.40
7957.5	-55.30	17	2	H	16.7	-38.60	-25	-13.60
7957.5	-54.10	168	1.1	V	16.8	-37.30	-25	-12.30

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
LTE Band 66								
Test frequency range: 30MHz-20GHz								
5MHz bandwidth, QPSK, Low channel								
3421.4	-45.50	268	1.9	H	4.8	-40.70	-13	-27.70
3421.4	-45.20	105	2.5	V	5.3	-39.90	-13	-26.90
5132.1	-46.90	173	2.3	H	9	-37.90	-13	-24.90
5132.1	-46.60	329	1.1	V	9.3	-37.30	-13	-24.30
5MHz bandwidth, QPSK, Middle channel								
3490.0	-45.80	132	1.8	H	5.6	-40.20	-13	-27.20
3490.0	-46.10	210	2.1	V	5.7	-40.40	-13	-27.40
5235.0	-45.80	100	1.5	H	8.2	-37.60	-13	-24.60
5235.0	-45.00	80	1.4	V	8.6	-36.40	-13	-23.40
5MHz bandwidth, QPSK, High channel								
3558.6	-46.00	133	1.9	H	6.1	-39.90	-13	-26.90
3558.6	-44.70	263	1	V	6.1	-38.60	-13	-25.60
5337.9	-44.90	114	1.2	H	8.4	-36.50	-13	-23.50
5337.9	-43.70	62	2.2	V	8.7	-35.00	-13	-22.00

Note:

Absolute Level = Reading Level + Substituted Factor

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

Margin = Absolute Level – Limit

Other emissions which was more than 20dB below limit was not recorded

FCC§ 22.917 (a);§ 24.238 (a); §27.53(g) (h)(m); §90.691 - 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 (g)(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), 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 than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz.

According to § 90.691, (a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

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

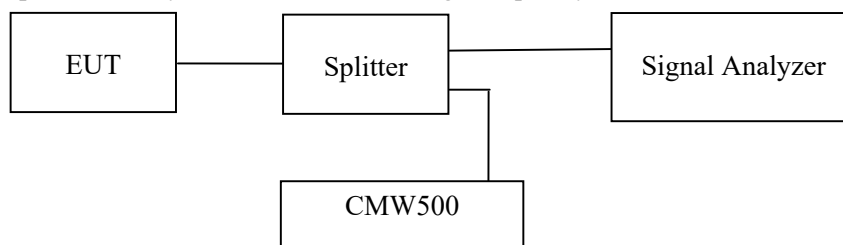
(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency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

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section

Test Procedure

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



Note: the worst path loss (cable loss and splitter inset loss) among the test frequency range has included in plot.

Test Data

Environmental Conditions

Temperature:	27.5~28.4 °C
Relative Humidity:	48.2~52.6 %
ATM Pressure:	101.0 kPa

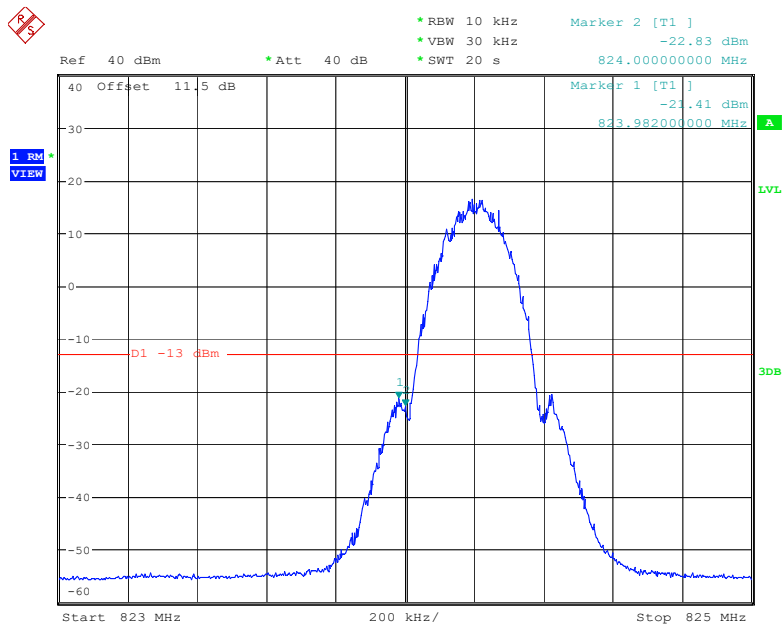
The testing was performed by Jacob Huang from 2023-05-26 to 2023-06-06.

EUT operation mode: Transmitting (Worst case)

Test Result: Pass

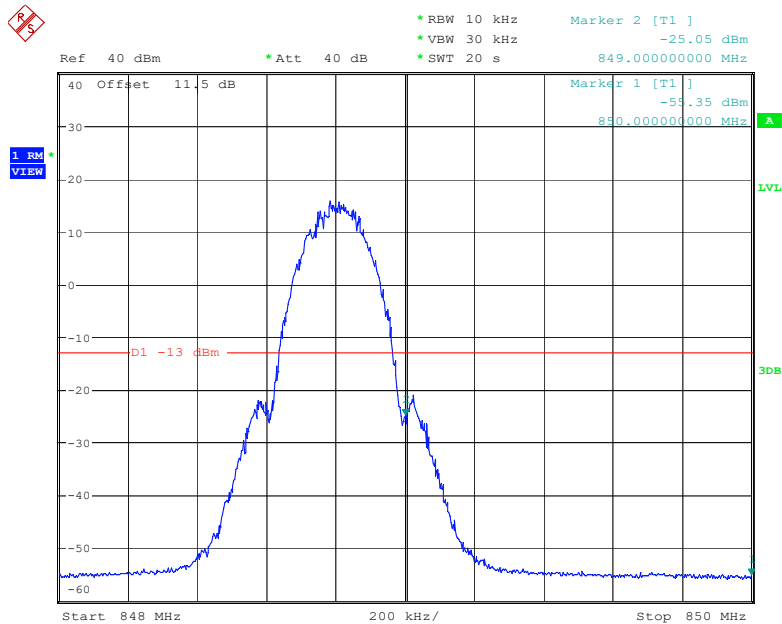
Please refer to the following plots.

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



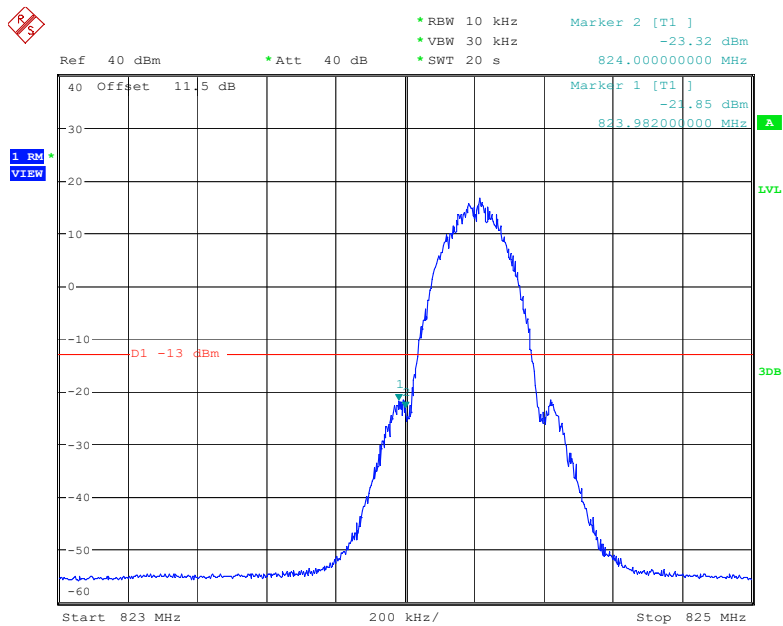
Date: 29.MAY.2023 16:16:35

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



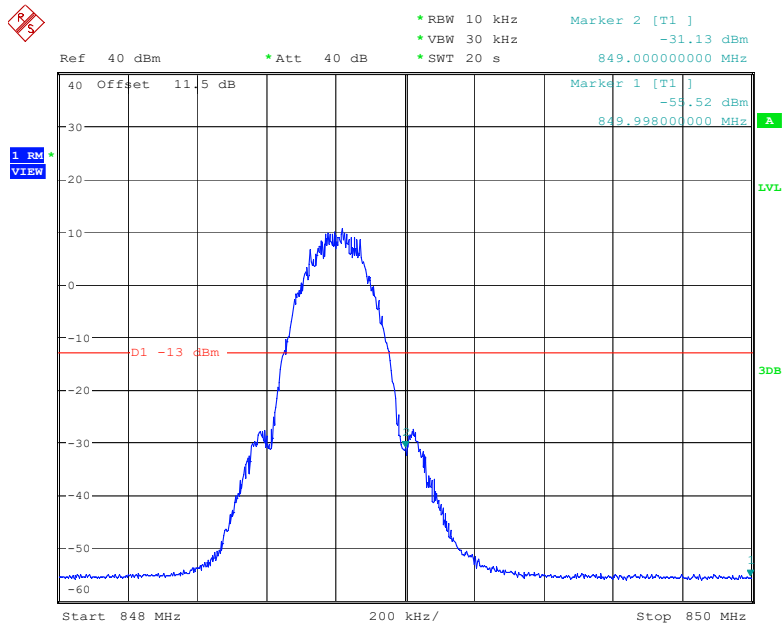
Date: 29.MAY.2023 16:14:13

Cellular Band, Left Band Edge for EGPRS (8PSK) Mode

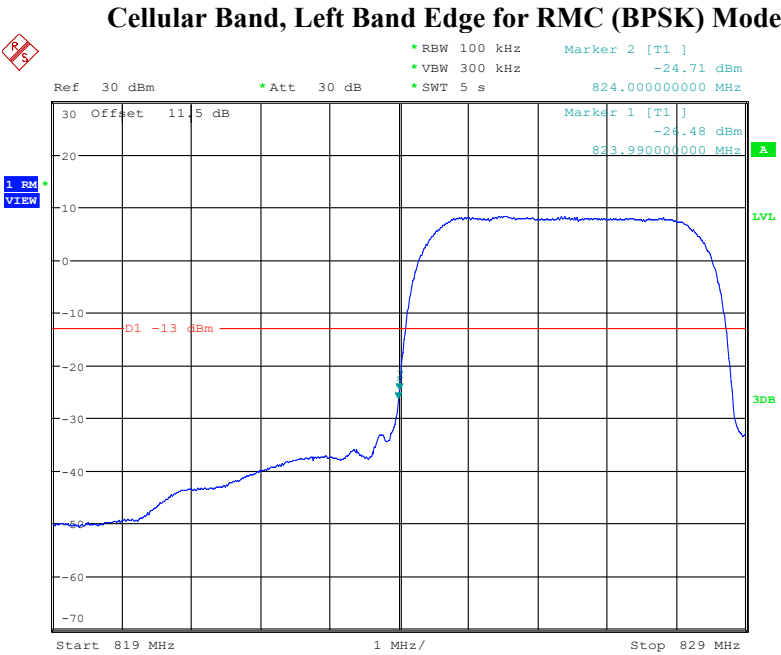


Date: 29.MAY.2023 14:15:48

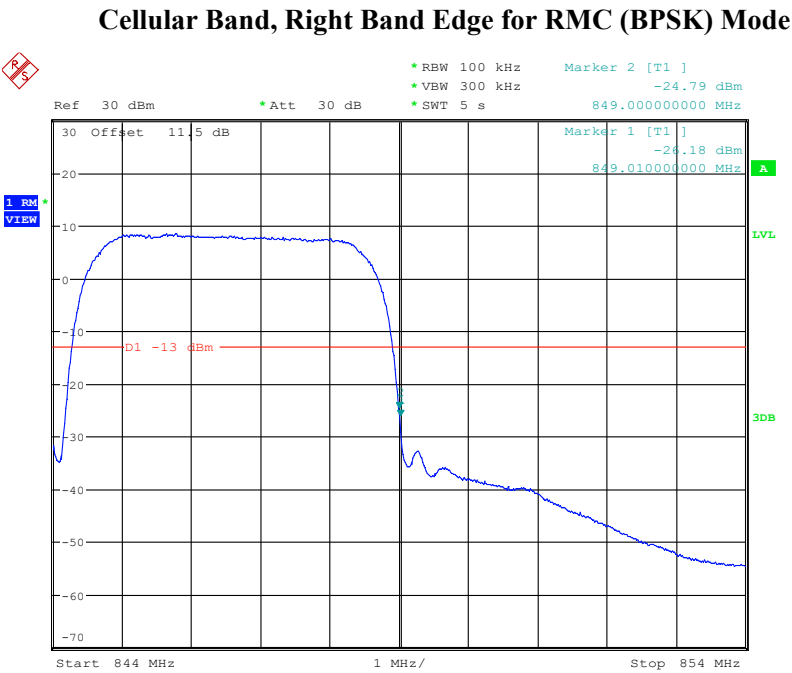
Cellular Band, Right Band Edge for EGPRS (8PSK) Mode



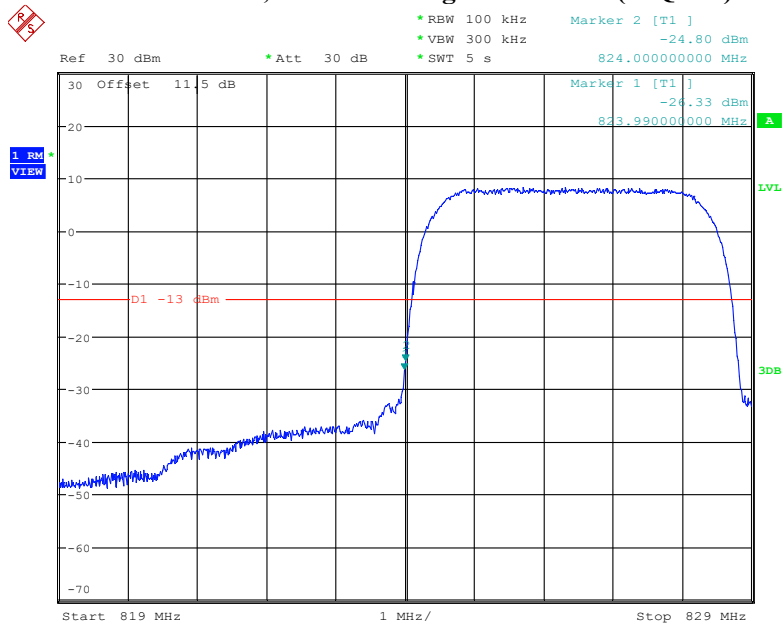
Date: 29.MAY.2023 16:23:59



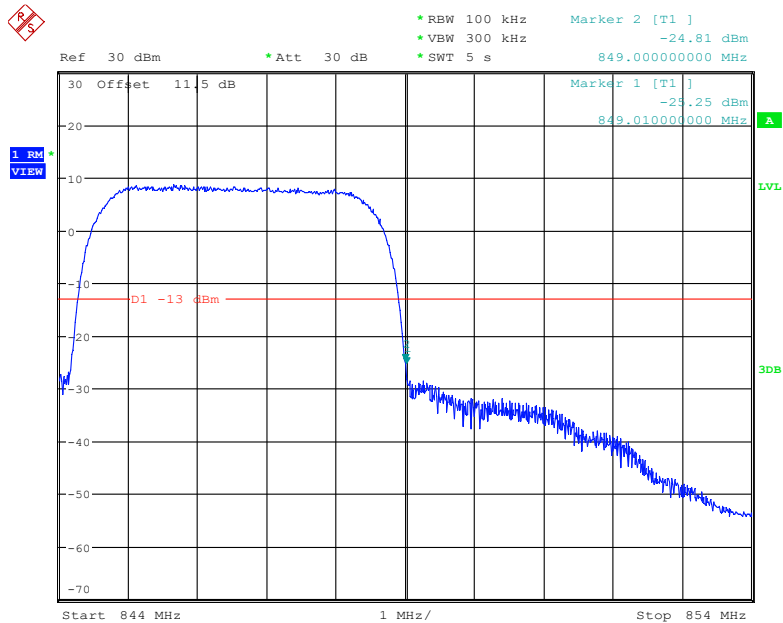
Date: 29.MAY.2023 19:12:46



Date: 29.MAY.2023 19:15:54

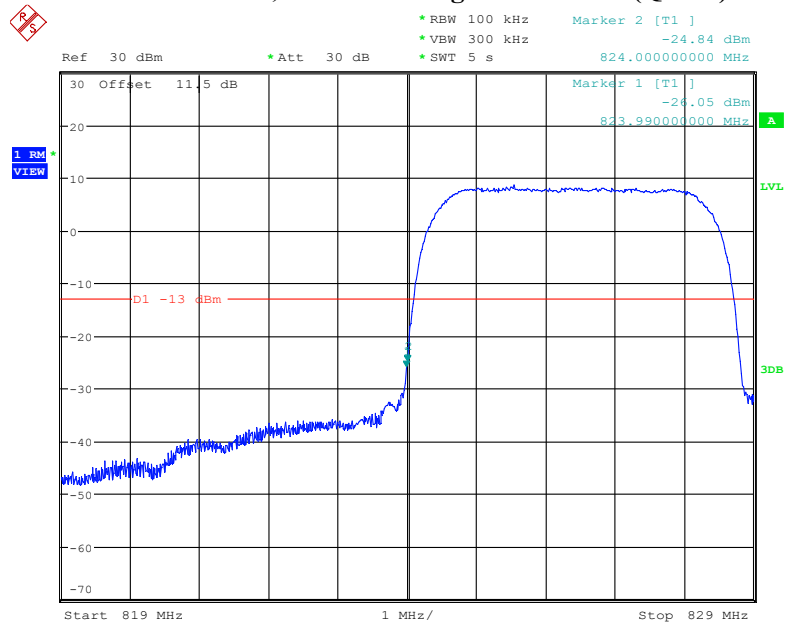
Cellular Band, Left Band Edge for HSDPA(16QAM) Mode

Date: 29.MAY.2023 19:40:06

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

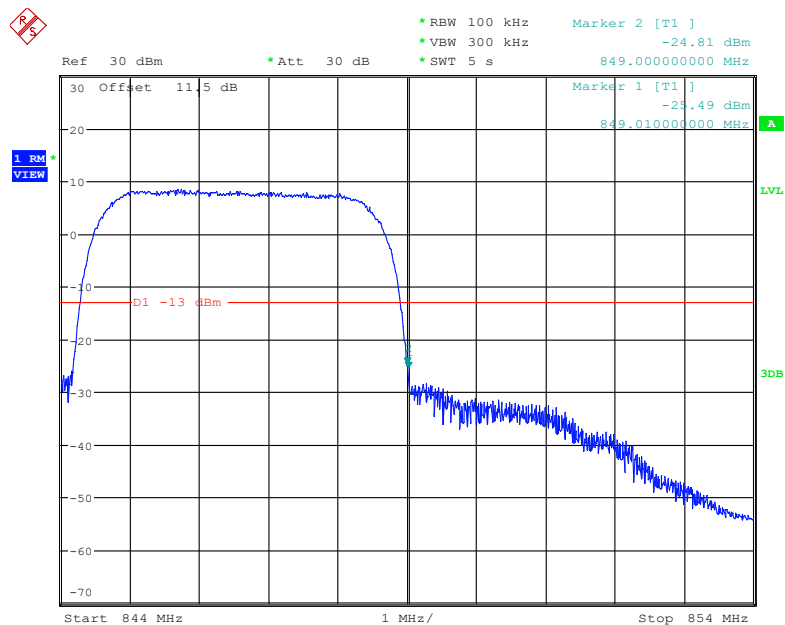
Date: 29.MAY.2023 19:49:48

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



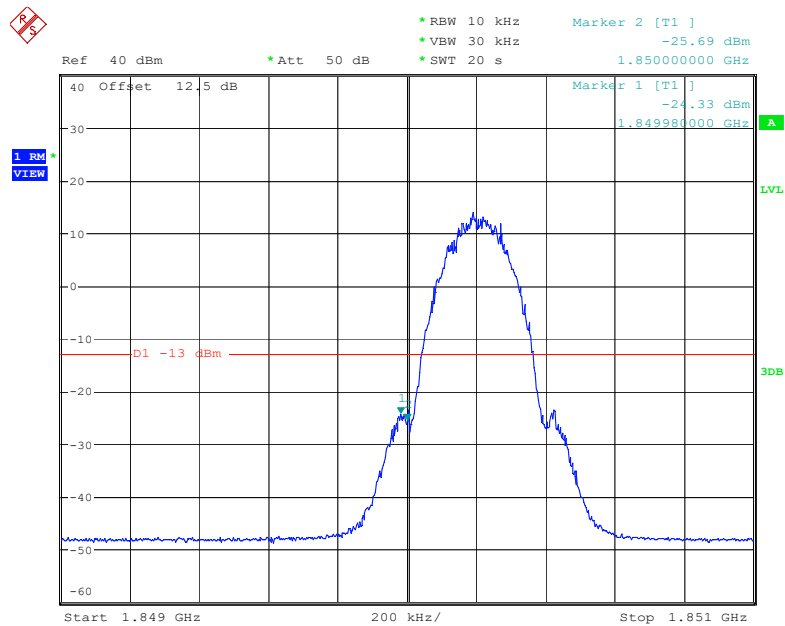
Date: 29.MAY.2023 19:27:00

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



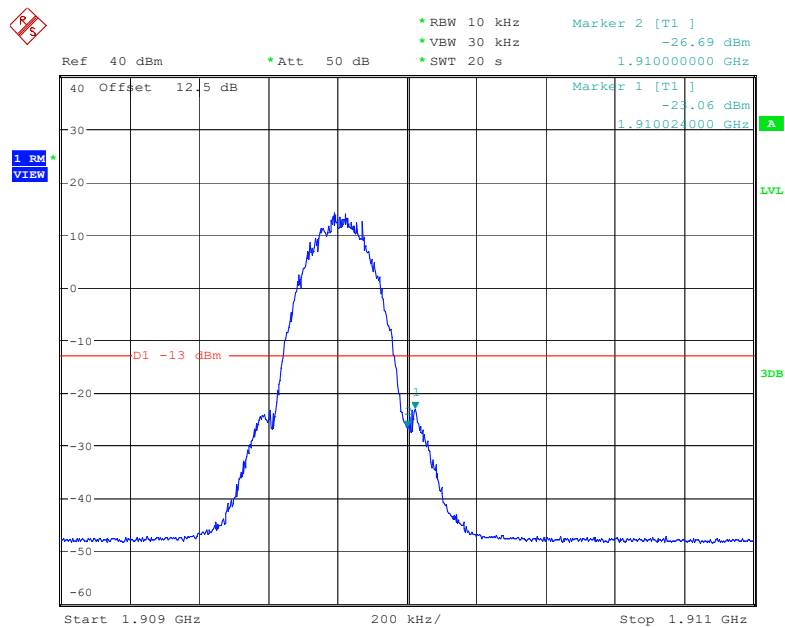
Date: 29.MAY.2023 19:22:15

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

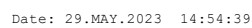
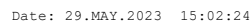


Date: 29.MAY.2023 16:01:51

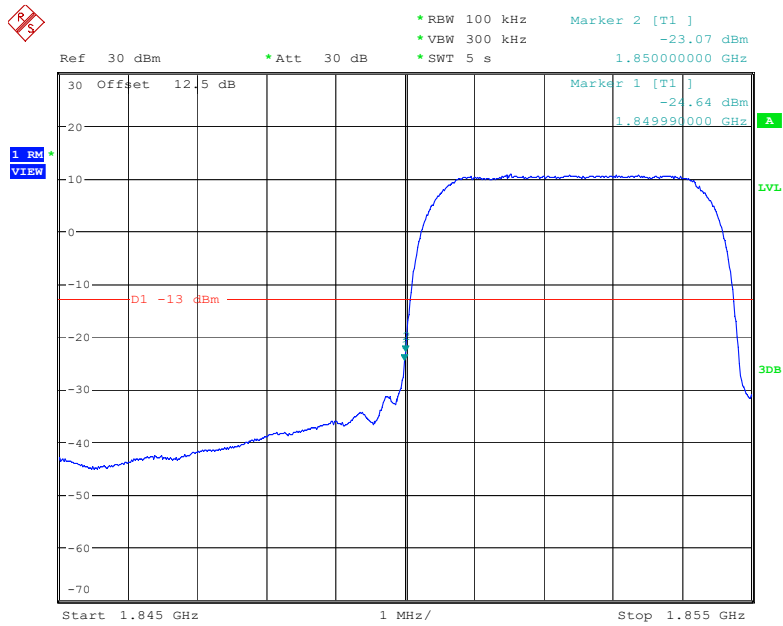
PCS Band, Right Band Edge for GSM (GMSK) Mode



Date: 29.MAY.2023 16:05:32

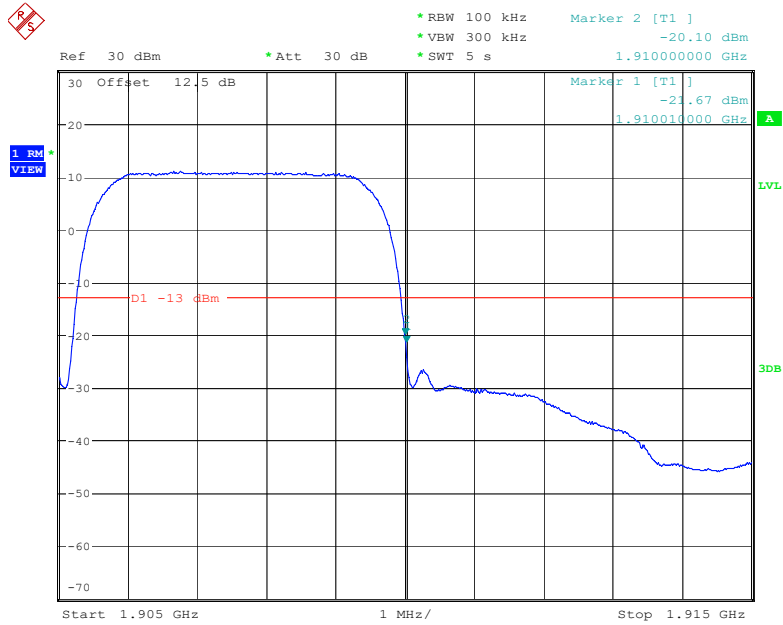


PCS Band, Left Band Edge for RMC (BPSK) Mode



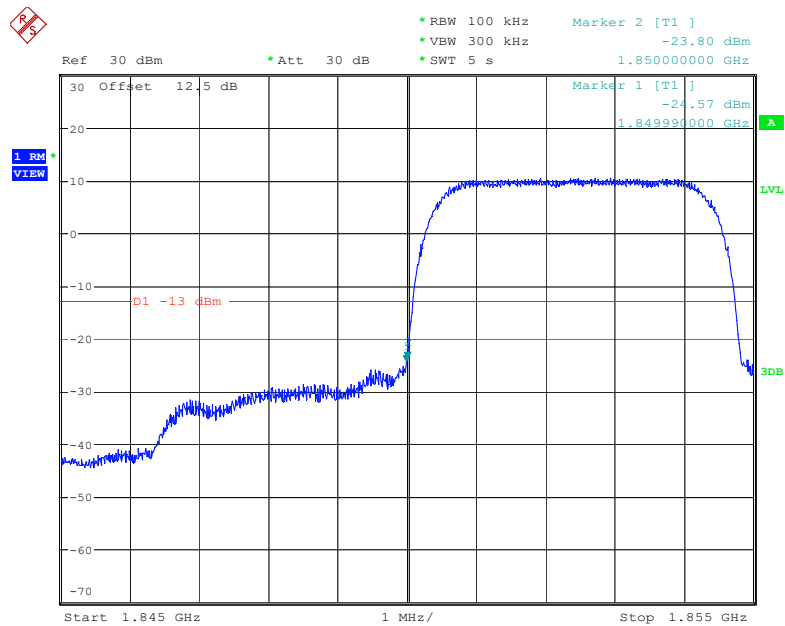
Date: 29.MAY.2023 16:32:07

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



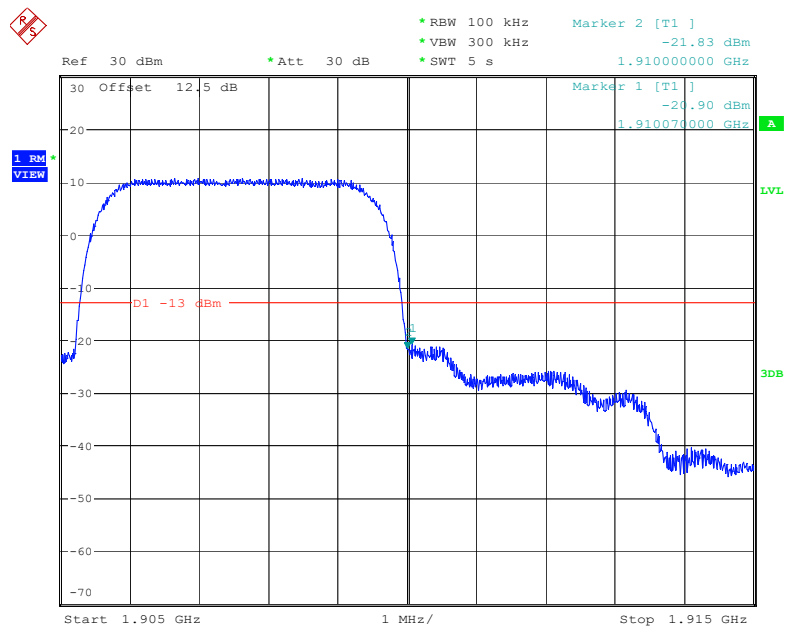
Date: 29.MAY.2023 16:37:52

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



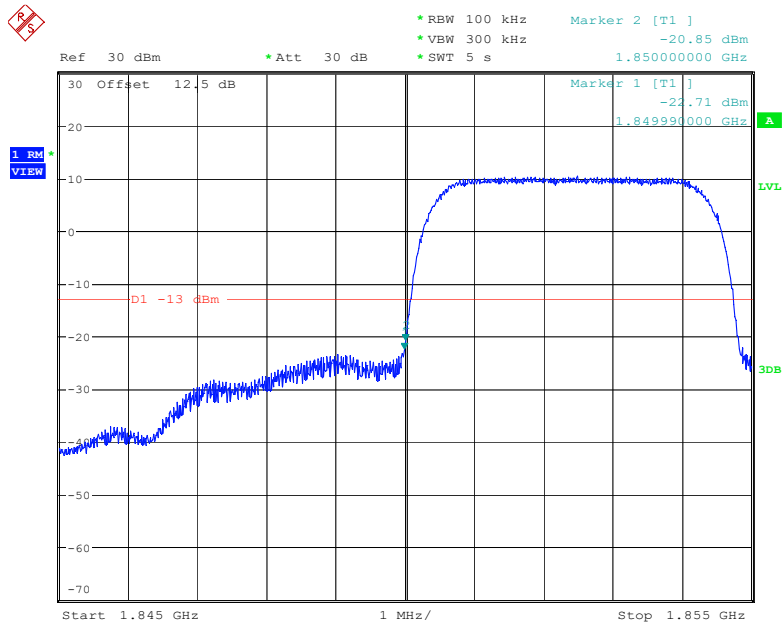
Date: 29.MAY.2023 16:47:17

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



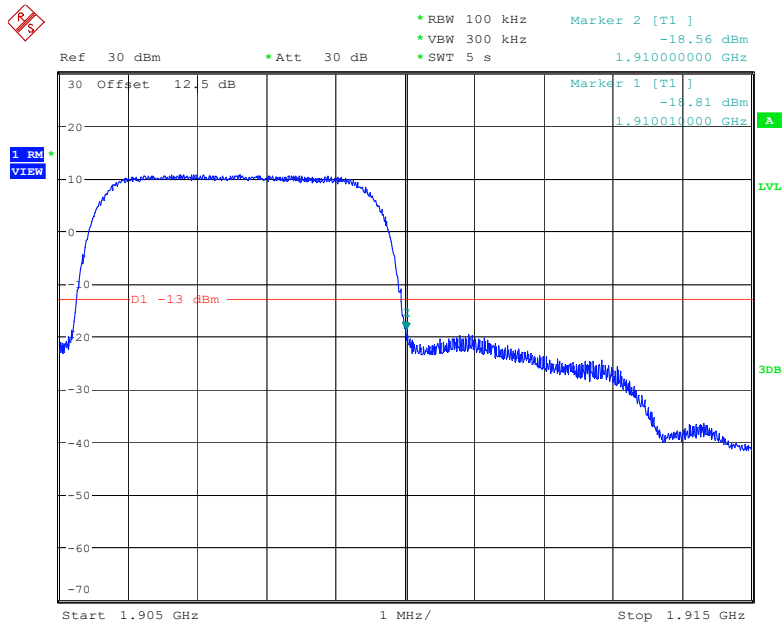
Date: 29.MAY.2023 16:43:37

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



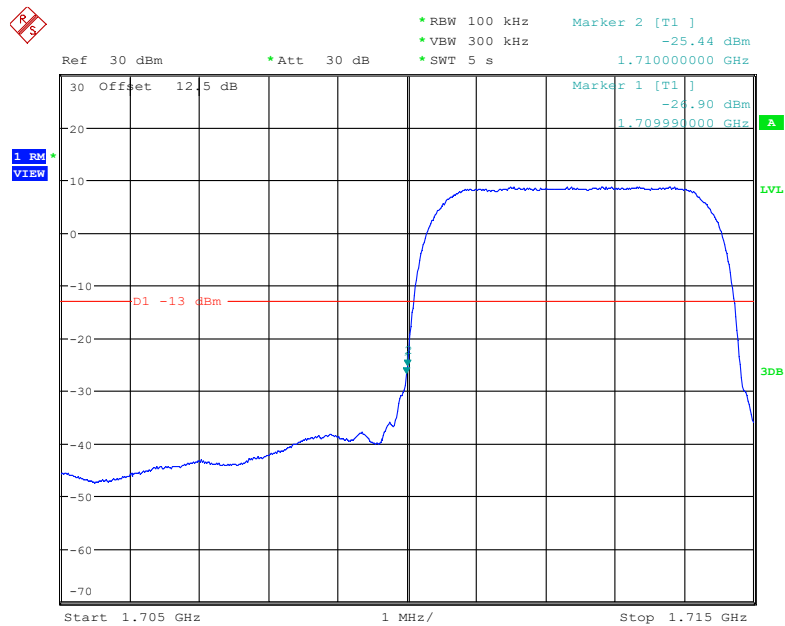
Date: 29.MAY.2023 17:11:17

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



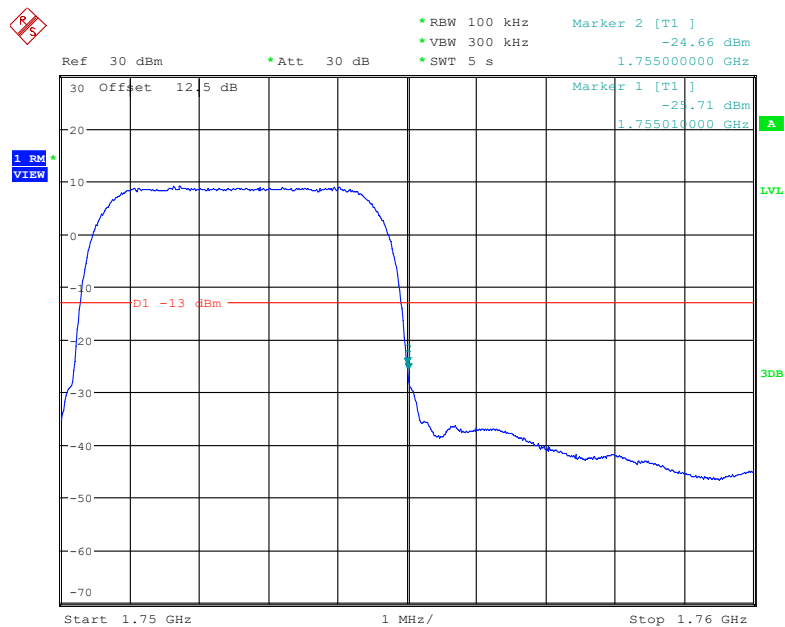
Date: 29.MAY.2023 17:07:35

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

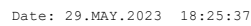


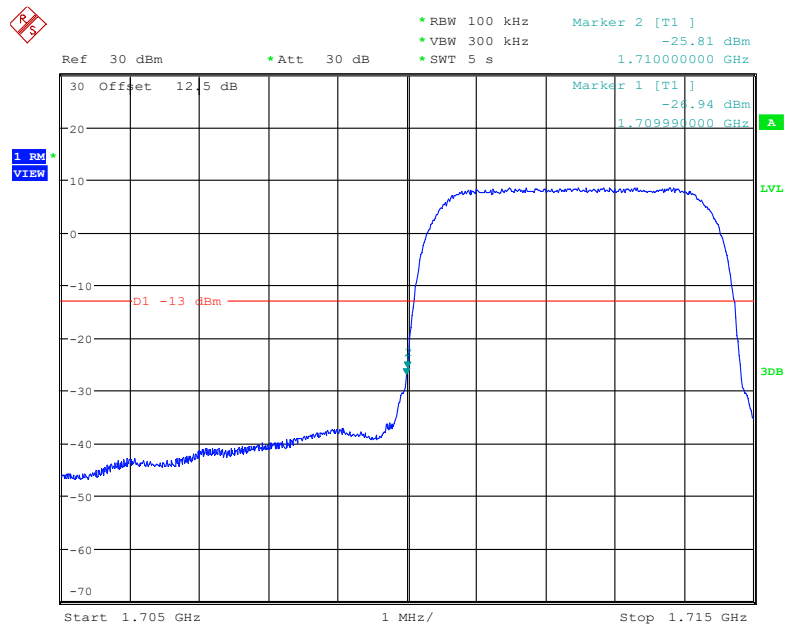
Date: 29.MAY.2023 18:03:26

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

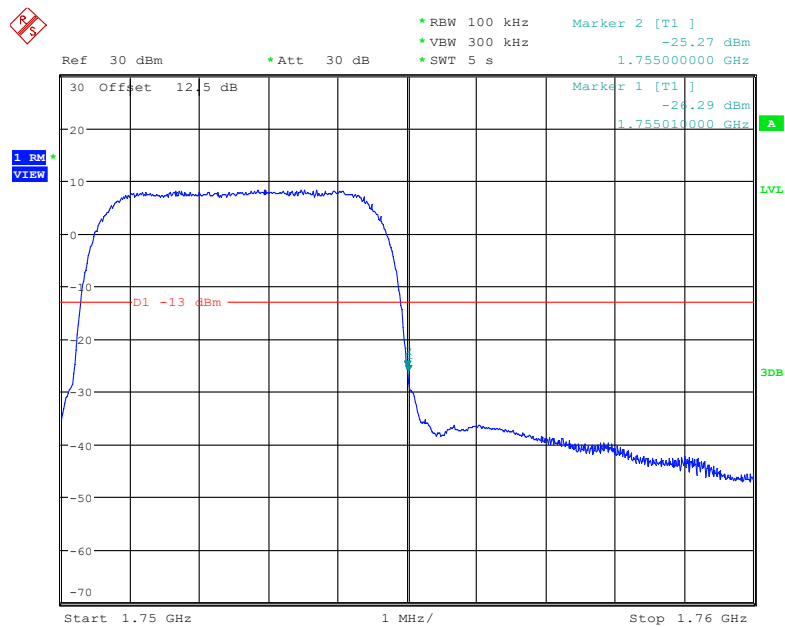


Date: 29.MAY.2023 18:14:06



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

Date: 29.MAY.2023 18:41:45

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

Date: 29.MAY.2023 18:54:47

The test plots of LTE bands please refer to the Appendix C.

FCC § 2.1055; § 22.355; § 24.235; §27.54; §90.213- FREQUENCY STABILITY

Applicable Standard

FCC § 2.1055, §22.355, §24.235&§27.54&§90.213.

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.

According to §90.213, unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following table:

TABLE 1 TO §90.213(a)—MINIMUM FREQUENCY STABILITY

[Parts per million (ppm)]

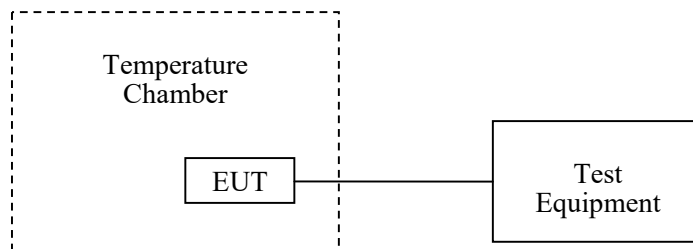
Frequency range (MHz)	Fixed and base stations	Mobile stations	
		Over 2 watts output power	2 watts or less output power
Below 25	1 2 3 100	100	200
25-50	20	20	50
72-76	5		50
150-174	5 11 5	6 5	4 6 50
216-220	1.0		1.0
220-222 ¹²	0.1	1.5	1.5
421-512	7 11 14 2.5	8 5	8 5
806-809	14 1.0	1.5	1.5
809-824	14 1.5	2.5	2.5
851-854	1.0	1.5	1.5
854-869	1.5	2.5	2.5
896-901	14 0.1	1.5	1.5
902-928	2.5	2.5	2.5
902-928 ¹³	2.5	2.5	2.5
929-930	1.5		
935-940	0.1	1.5	1.5
1427-1435	9 300	300	300
Above 2450 ¹⁰			

Test Procedure

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

Temperature:	27.5~28.4 °C
Relative Humidity:	48.2~52.6 %
ATM Pressure:	101.0 kPa

The testing was performed by Jacob Huang from 2023-05-26 to 2023-06-06.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the following tables. (Worst case listed)

**Cellular Band (Part 22H)
GSM Mode**

Middle Channel, $f_0=836.6\text{MHz}$				
Temperature (°C)	Voltage Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	N.V.	10.34	0.0124	2.5
-20		9.95	0.0119	2.5
-10		9.91	0.0119	2.5
0		14.19	0.0170	2.5
10		14.06	0.0168	2.5
20		6.21	0.0074	2.5
30		7.96	0.0095	2.5
40		13.86	0.0166	2.5
50		13.25	0.0158	2.5
20	L.V.	13.40	0.0160	2.5
	H.V.	14.12	0.0169	2.5

EDGE Mode

Middle Channel, $f_0=836.6\text{MHz}$				
Temperature (°C)	Voltage Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	N.V.	-1.47	-0.0008	2.5
-20		-2.88	-0.0015	2.5
-10		-7.56	-0.0040	2.5
0		-5.46	-0.0029	2.5
10		-8.67	-0.0046	2.5
20		-8.72	-0.0046	2.5
30		0.13	0.0001	2.5
40		0.84	0.0004	2.5
50		-8.06	-0.0043	2.5
20	L.V.	-7.84	-0.0042	2.5
	H.V.	-7.82	-0.0042	2.5

WCDMA Mode band5

Middle Channel, $f_0=836.6\text{MHz}$				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	N.V.	12.30	0.0065	2.5
-20		6.64	0.0035	2.5
-10		6.58	0.0035	2.5
0		13.25	0.0071	2.5
10		4.87	0.0026	2.5
20		4.31	0.0023	2.5
30		10.54	0.0056	2.5
40		10.89	0.0058	2.5
50		13.02	0.0069	2.5
20	L.V.	13.35	0.0071	2.5
	H.V.	14.06	0.0075	2.5

**PCS Band (Part 24E)
GSM Mode**

Middle Channel, $f_0=1880\text{MHz}$					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1850.0316	1909.9549	1850	1910
-20		1850.0309	1909.9530	1850	1910
-10		1850.0292	1909.9548	1850	1910
0		1850.0306	1909.9514	1850	1910
10		1850.0281	1909.9522	1850	1910
20		1850.0329	1909.9521	1850	1910
30		1850.0278	1909.9502	1850	1910
40		1850.0288	1909.9527	1850	1910
50		1850.0289	1909.9509	1850	1910
20	L.V.	1850.0323	1909.9549	1850	1910
	H.V.	1850.0324	1909.9531	1850	1910

EDGE Mode

Middle Channel, $f_0=1880\text{MHz}$					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1850.0153	1909.9675	1850	1910
-20		1850.0119	1909.9643	1850	1910
-10		1850.0175	1909.9646	1850	1910
0		1850.0139	1909.9658	1850	1910
10		1850.0131	1909.9673	1850	1910
20		1850.0127	1909.9671	1850	1910
30		1850.0122	1909.9661	1850	1910
40		1850.0130	1909.9683	1850	1910
50		1850.0111	1909.9661	1850	1910
20	L.V.	1850.0138	1909.9655	1850	1910
	H.V.	1850.0107	1909.9711	1850	1910

WCDMA Mode band 2

Middle Channel, $f_0=1880\text{MHz}$					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1850.0094	1909.9690	1850	1910
-20		1850.0136	1909.9714	1850	1910
-10		1850.0085	1909.9695	1850	1910
0		1850.0137	1909.9698	1850	1910
10		1850.0107	1909.9711	1850	1910
20		1850.0133	1909.9685	1850	1910
30		1850.0142	1909.9727	1850	1910
40		1850.0113	1909.9753	1850	1910
50		1850.0086	1909.9739	1850	1910
20	L.V.	1850.0099	1909.9735	1850	1910
	H.V.	1850.0110	1909.9697	1850	1910

AWS Band4 (Part 27)

Middle Channel, $f_o=1732.6\text{MHz}$					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1710.0313	1754.9702	1710	1755
-20		1710.0357	1754.9669	1710	1755
-10		1710.0343	1754.9655	1710	1755
0		1710.0311	1754.9688	1710	1755
10		1710.0339	1754.9657	1710	1755
20		1710.0324	1754.9680	1710	1755
30		1710.0344	1754.9706	1710	1755
40		1710.0344	1754.9646	1710	1755
50		1710.0345	1754.9627	1710	1755
20	L.V.	1710.0352	1754.9634	1710	1755
	H.V.	1710.0378	1754.9698	1710	1755

LTE:
QPSK:
Band 2:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1850.0106	1909.9735	1850	1910
-20		1850.0087	1909.9744	1850	1910
-10		1850.0069	1909.9791	1850	1910
0		1850.0075	1909.9780	1850	1910
10		1850.0096	1909.9751	1850	1910
20		1850.0112	1909.9778	1850	1910
30		1850.0109	1909.9733	1850	1910
40		1850.0077	1909.9773	1850	1910
50		1850.0132	1909.9798	1850	1910
20	L.V.	1850.0091	1909.9786	1850	1910
	H.V.	1850.0097	1909.9768	1850	1910

Band 4:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1710.0333	1754.9626	1710	1755
-20		1710.0339	1754.9657	1710	1755
-10		1710.0286	1754.9666	1710	1755
0		1710.0267	1754.9647	1710	1755
10		1710.029	1754.9643	1710	1755
20		1710.0339	1754.9687	1710	1755
30		1710.0306	1754.9657	1710	1755
40		1710.0321	1754.9659	1710	1755
50		1710.0288	1754.9680	1710	1755
20	L.V.	1710.0267	1754.9616	1710	1755
	H.V.	1710.0313	174.9618	1710	1755

Band 5:

10.0 MHz Middle Channel, $f_o=836.5\text{MHz}$				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	N.V.	7.58	0.0091	2.5
-20		6.88	0.0082	2.5
-10		5.63	0.0067	2.5
0		10.25	0.0122	2.5
10		11.01	0.0132	2.5
20		5.42	0.0065	2.5
30		13.96	0.0167	2.5
40		6.31	0.0075	2.5
50		8.87	0.0106	2.5
20	L.V.	9.48	0.0113	2.5
	H.V.	9.95	0.0119	2.5

Band 7:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	2500.0429	2569.9477	2500	2570
-20		2500.0433	2569.9501	2500	2570
-10		2500.0421	2569.9466	2500	2570
0		2500.0392	2569.9484	2500	2570
10		2500.0402	2569.9482	2500	2570
20		2500.0387	2569.9481	2500	2570
30		2500.0383	2569.9466	2500	2570
40		2500.0401	2569.9464	2500	2570
50		2500.0376	2569.9488	2500	2570
20	L.V.	2500.0396	2569.9516	2500	2570
	H.V.	2500.0449	2569.9463	2500	2570

Band 12:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	699.0116	715.9955	699	716
-20		699.0122	715.9954	699	716
-10		699.0107	715.9925	699	716
0		699.0086	715.9935	699	716
10		699.0110	715.9955	699	716
20		699.0119	715.9986	699	716
30		699.0097	715.9958	699	716
40		699.0103	715.9938	699	716
50		699.0149	715.9985	699	716
20	L.V.	699.0095	715.9922	699	716
	H.V.	699.0117	715.9931	699	716

Band 17:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	704.0157	715.9906	704	716
-20		704.0109	715.9948	704	716
-10		704.0082	715.9876	704	716
0		704.0085	715.9933	704	716
10		704.0110	715.9925	704	716
20		704.0130	715.9898	704	716
30		704.0113	715.9905	704	716
40		704.0124	715.9911	704	716
50		704.0091	715.9913	704	716
20	L.V.	704.0084	715.9947	704	716
	H.V.	704.0088	715.9875	704	716

Band 26 (814-824MHz):

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	814.0165	823.9854	814	824
-20		814.0150	823.9838	814	824
-10		814.0151	823.9786	814	824
0		814.0178	823.9794	814	824
10		814.0148	823.9812	814	824
20		814.0168	823.9794	814	824
30		814.0156	823.9800	814	824
40		814.0171	823.9816	814	824
50		814.0191	823.9831	814	824
20	L.V.	814.0193	823.9816	814	824
	H.V.	814.0145	823.9823	814	824

Band 26 (824-849MHz):

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	824.0134	848.9861	824	849
-20		824.0117	848.9853	824	849
-10		824.0136	848.9868	824	849
0		824.0140	848.9852	824	849
10		824.0115	848.9836	824	849
20		824.0157	848.9864	824	849
30		824.0142	848.9869	824	849
40		824.0126	848.9807	824	849
50		824.0115	848.9848	824	849
20	L.V.	824.0115	848.9842	824	849
	H.V.	824.0100	848.9839	824	849

Band 38:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	2570.1237	2619.9862	2570	2620
-20		2570.1289	2619.9845	2570	2620
-10		2570.1269	2619.9817	2570	2620
0		2570.1263	2619.9887	2570	2620
10		2570.1251	2619.9841	2570	2620
20		2570.1240	2619.9838	2570	2620
30		2570.1246	2619.9827	2570	2620
40		2570.1276	2619.9851	2570	2620
50		2570.1227	2619.9832	2570	2620
20	L.V.	2570.1237	2619.9833	2570	2620
	H.V.	2570.1257	2619.9873	2570	2620

Band 41:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	2535.2412	2654.9409	2535	2655
-20		2535.2413	2654.9336	2535	2655
-10		2535.2469	2654.9353	2535	2655
0		2535.2490	2654.9351	2535	2655
10		2535.2440	2654.9360	2535	2655
20		2535.2411	2654.9407	2535	2655
30		2535.2441	2654.9373	2535	2655
40		2535.2432	2654.9409	2535	2655
50		2535.2414	2654.9371	2535	2655
20	L.V.	2535.2453	2654.9394	2535	2655
	H.V.	2535.2442	2654.9360	2535	2655

Band 66:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1710.0200	1779.9729	1710	1780
-20		1710.0206	1779.9730	1710	1780
-10		1710.0215	1779.9729	1710	1780
0		1710.0261	1779.9737	1710	1780
10		1710.0228	1779.9747	1710	1780
20		1710.0235	1779.9749	1710	1780
30		1710.0273	1779.9719	1710	1780
40		1710.0256	1779.9741	1710	1780
50		1710.0262	1779.9723	1710	1780
20	L.V.	1710.0199	1779.9769	1710	1780
	H.V.	1710.0221	1779.9721	1710	1780

16QAM:**Band 2:**

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1850.1158	1909.8726	1850	1910
-20		1850.1159	1909.8730	1850	1910
-10		1850.1181	1909.8752	1850	1910
0		1850.1165	1909.8791	1850	1910
10		1850.1147	1909.8754	1850	1910
20		1850.1143	1909.8789	1850	1910
30		1850.1170	1909.8756	1850	1910
40		1850.1179	1909.8771	1850	1910
50		1850.1128	1909.8768	1850	1910
20	L.V.	1850.1185	1909.8749	1850	1910
	H.V.	1850.1179	1909.8727	1850	1910

Band 4:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1710.2630	1754.7618	1710	1755
-20		1710.2655	1754.7669	1710	1755
-10		1710.2690	1754.7652	1710	1755
0		1710.2632	1754.7648	1710	1755
10		1710.2643	1754.7626	1710	1755
20		1710.2646	1754.7668	1710	1755
30		1710.2663	1754.7657	1710	1755
40		1710.2622	1754.7650	1710	1755
50		1710.2688	1754.7665	1710	1755
20	L.V.	1710.2642	1754.7616	1710	1755
	H.V.	1710.2691	1754.7654	1710	1755

Band 5:

10.0 MHz Middle Channel, f ₀ =836.5MHz				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	N.V.	15.24	0.0081	2.5
-20		12.99	0.0069	2.5
-10		11.90	0.0063	2.5
0		10.67	0.0057	2.5
10		8.49	0.0045	2.5
20		8.2	0.0044	2.5
30		8.25	0.0044	2.5
40		10.02	0.0053	2.5
50		12.35	0.0066	2.5
20	L.V.	12.83	0.0068	2.5
	H.V.	13.50	0.0072	2.5

Band 7:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	2500.2998	2569.9588	2500	2570
-20		2500.2946	2569.9620	2500	2570
-10		2500.2943	2569.9556	2500	2570
0		2500.2958	2569.9571	2500	2570
10		2500.2970	2569.9580	2500	2570
20		2500.2988	2569.9626	2500	2570
30		2500.2975	2569.9560	2500	2570
40		2500.2991	2569.9562	2500	2570
50		2500.2952	2569.9570	2500	2570
20	L.V.	2500.2959	2569.9592	2500	2570
	H.V.	2500.2944	2569.9615	2500	2570

Band 12:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	699.1360	715.8293	699	716
-20		699.1371	715.8289	699	716
-10		699.1347	715.8324	699	716
0		699.1301	715.8351	699	716
10		699.1324	715.8309	699	716
20		699.1343	715.8294	699	716
30		699.1320	715.8345	699	716
40		699.1330	715.8331	699	716
50		699.1295	715.8310	699	716
20	L.V.	699.1308	715.8280	699	716
	H.V.	699.1365	715.8306	699	716

Band 17:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	704.2192	715.9265	704	716
-20		704.1957	715.9254	704	716
-10		704.3992	715.9125	704	716
0		704.1142	715.9123	704	716
10		704.3237	715.9568	704	716
20		704.3557	715.9512	704	716
30		704.5745	715.9415	704	716
40		704.1562	715.9125	704	716
50		704.1663	715.9412	704	716
20	L.V.	704.1967	715.9452	704	716
	H.V.	704.2846	715.9125	704	716

Band 26 (814-824MHz):

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	814.0158	823.9860	814	824
-20		814.0139	823.9839	814	824
-10		814.0189	823.9899	814	824
0		814.0196	823.9837	814	824
10		814.0169	823.9851	814	824
20		814.0180	823.9834	814	824
30		814.0201	823.9834	814	824
40		814.0215	823.9869	814	824
50		814.0159	823.9821	814	824
20	L.V.	814.0147	823.9900	814	824
	H.V.	814.0208	823.9861	814	824

Band 26 (824-849MHz):

10MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	824.0135	848.9919	824	849
-20		824.0203	848.9918	824	849
-10		824.0205	848.9896	824	849
0		824.0206	848.9919	824	849
10		824.0157	848.9902	824	849
20		824.0180	848.9900	824	849
30		824.0154	848.9899	824	849
40		824.0176	848.9872	824	849
50		824.0131	848.9897	824	849
20	L.V.	824.0200	848.9897	824	849
	H.V.	824.0161	848.9945	824	849

Band 38:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	2570.1076	2619.9961	2570	2620
-20		2570.1076	2619.9985	2570	2620
-10		2570.1097	2619.9986	2570	2620
0		2570.1087	2619.9972	2570	2620
10		2570.1102	2619.9962	2570	2620
20		2570.1105	2619.9944	2570	2620
30		2570.1123	2619.9949	2570	2620
40		2570.1097	2619.9987	2570	2620
50		2570.1133	2619.9985	2570	2620
20	L.V.	2570.1073	2619.9955	2570	2620
	H.V.	2570.1124	2619.9980	2570	2620

Band 41:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	2535.0516	2654.9497	2535	2655
-20		2535.0487	2654.9472	2535	2655
-10		2535.0485	2654.9500	2535	2655
0		2535.0510	2654.9484	2535	2655
10		2535.0485	2654.9497	2535	2655
20		2535.0487	2654.9514	2535	2655
30		2535.0473	2654.9527	2535	2655
40		2535.0517	2654.9540	2535	2655
50		2535.0495	2654.9498	2535	2655
20	L.V.	2535.0517	2654.9541	2535	2655
	H.V.	2535.0531	2654.9472	2535	2655

Band 66:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1710.0195	1779.9645	1710	1780
-20		1710.0213	1779.9652	1710	1780
-10		1710.0198	1779.9688	1710	1780
0		1710.0198	1779.9630	1710	1780
10		1710.0215	1779.9646	1710	1780
20		1710.0256	1779.9636	1710	1780
30		1710.0232	1779.9661	1710	1780
40		1710.0204	1779.9689	1710	1780
50		1710.0251	1779.9661	1710	1780
20	L.V.	1710.0193	1779.9682	1710	1780
	H.V.	1710.0187	1779.9657	1710	1780

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