

TEST REPORT

Product Name: 4G MPOS Device
FCC ID: SIT-KT700
Trademark: Kaissen, onedine
Model Number: KT700, otg
Prepared For: Kaissen Technology LLC
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Sample Received Date: Feb. 21, 2022
Sample tested Date: Feb. 21, 2022 to Mar. 10, 2022
Issue Date: Mar. 10, 2022
Report No.: CTB220309014RFX
Test Standards: FCC Part 22H & 24E
Test Results: PASS
Remark: This is GSM radio test report.

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Rita Xiao / Director

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(Note: N/A means not applicable)

1. VERSION

Report No.	Issue Date	Description	Approved
CTB220309014RFX	Mar. 10, 2022	Original	Valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

FCC Rules	Description of Test Item	Result
§1.1307, §2.1091	RF Exposure	Compliant
§22.913 (a), §24.232 (c)	RF Output Power	Compliant
§24.51	Peak-to-average Ratio(PAR) of Transmitter	Compliant
§22.917 (b), §24.238 (b)	Emission Bandwidth	Compliant
§22.917 (a), §24.238 (a)	Spurious Emissions at Antenna Terminal	Compliant
§22.917 (a), §24.238 (a)	Spurious Radiation Emissions	Compliant
§22.917 (a), §24.238 (a)	Out of Band Emissions	Compliant
§22.355, §24.235	Frequency Stability	Compliant

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Item	Uncertainty
Occupancy bandwidth	54.3kHz
Conducted output power Above 1G	0.9dB
Conducted output power below 1G	0.9dB
Power Spectral Density , Conduction	0.9dB
Conduction spurious emissions	2.0dB
Out of band emission	2.0dB
3m chamber Radiated spurious emission(30MHz-1GHz)	4.6dB
3m chamber Radiated spurious emission(1GHz-18GHz)	5.1dB
3m chamber Radiated spurious emission(18GHz-40GHz)	3.4dB
Receiver Reference Sensitivity level	1.9dB
humidity uncertainty	5.5%
Temperature uncertainty	0.63°C
frequency	1×10^{-7}

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	KT700, otg
Model Description:	All the model are the same circuit and RF module, only the model name and inconsistencies in the size of the display. Test model : KT700
Hardware Version:	Q05M001 B1-1 QT150
Software Version:	SQ806_Userdebug_20220218
Operation Frequency:	GPRS/EDGE 850: 824~849MHz GPRS/EDGE 1900: 1850~1910MHz WCDMA Band 2: 1850~1910MHz WCDMA Band 5: 824~849MHz
Max. RF output power:	GSM850: 32.70dBm, GSM1900: 29.65dBm, WCDMA Band 2: 21.59dBm, WCDMA Band 5: 23.20dBm
Type of Modulation:	GMSK, BPSK
Antenna installation:	Internal antenna
Antenna Gain:	GSM850: 0.5dBi, GSM1900: 2.0dBi WCDMA Band 2: 2.0dBi WCDMA Band 5: 0.5dBi
Ratings:	DC 5V charging from adapter Battery DC3.7V, 6000mAh

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

No	Device Type	Brand	Model	Series No.	Note

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

Testing Configure			
Support Band	Support Standard	Channel Frequency	Channel Number
GSM 850	GPRS/EDGE	824.2 MHz	128
		836.6 MHz	190
		848.8 MHz	251
PCS 1900	GPRS/EDGE	1850.2 MHz	512
		1880.0 MHz	661
		1909.8 MHz	810
WCDMA Band 5	WCDMA/HSDPA/HSUPA	826.4 MHz	4132
		836.6 MHz	4183
		846.6 MHz	4233
WCDMA Band 2	WCDMA/HSDPA/HSUPA	1852.4 MHz	9262
		1880.0 MHz	9400
		1907.6 MHz	9538

Note: the transmitter has been tested on the communications mode of GSM, GPRS, EDGE, WCDMA, HSDPA, HSUPA compliance test and record the worst case.

4.5 Test Mode

Test Mode List		
Test Mode	Description	Remark
TM1	GPRS 850	Low, Middle, High Channels
TM2	EDGE 850	Low, Middle, High Channels
TM3	GPRS 1900	Low, Middle, High Channels
TM4	EDGE 1900	Low, Middle, High Channels
TM5	WCDMA Band 5	Low, Middle, High Channels
TM6	HSDPA Band 5	Low, Middle, High Channels
TM7	HSUPA Band 5	Low, Middle, High Channels
TM8	WCDMA Band 2	Low, Middle, High Channels
TM9	HSDPA Band 2	Low, Middle, High Channels
TM10	HSUPA Band 2	Low, Middle, High Channels

4.6 Test Environment

Humidity(%):	55
Atmospheric Pressure(kPa):	101.1
Normal Voltage(AC):	120V
Normal Temperature(°C)	25
Low Temperature(°C)	0
High Temperature(°C)	40

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Street, Baoan District, Shenzhen China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

5.2 Test Instrument Used

No.	Equipment	Manufacturer	Model No.	Serial No.	Calibrated date	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	2021.09.27	2022.08.05
2	Power Sensor	Agilent	U2021XA	MY56120032	2021.09.27	2022.08.05
3	Power Sensor	Agilent	U2021XA	MY56120034	2021.09.27	2022.08.05
4	Communication test set	R&S	CMW500	108058	2021.09.27	2022.08.05
5	Spectrum Analyzer	R&S	FSP40	100550	2021.09.27	2022.08.05
6	Signal Generator	Agilent	N5181A	MY49060920	2021.09.27	2022.08.16
7	Signal Generator	Agilent	N5182A	MY47420195	2021.09.27	2022.08.05
8	Communication test set	Agilent	E5515C	MY50102567	2021.09.27	2022.08.16
9	band rejection filter	Shenxiang	MSF2400-2483.5MS-1154	20181015001	2021.09.27	2022.08.05
10	band rejection filter	Shenxiang	MSF5150-5850MS-1155	20181015001	2021.09.27	2022.08.05
11	band rejection filter	Xingbo	XBLBQ-DZA120	190821-1-1	2021.09.27	2022.08.05
12	BT&WI-FI Automatic test software	Microwave	MTS8310	Ver. 2.0.0.0	2021.09.27	2022.08.05
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	2021.09.27	2022.08.05
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	2021.09.27	2022.08.05
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	2021.09.27	2022.08.05

16	966 chamber	C.R.T.	966 Room	966	2021.09.27	2024.08.11
17	Receiver	R&S	ESPI	100362	2021.09.27	2022.08.05
18	Amplifier	HP	8447E	2945A02747	2021.09.27	2022.08.05
19	Amplifier	Agilent	8449B	3008A01838	2021.09.27	2022.08.05
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	869	2021.09.27	2022.08.07
21	Horn Antenna	Schwarzbeck	BBHA9120D	1911	2021.09.27	2022.08.08
22	Software	Fala	EZ-EMC	FA-03A2 RE	2021.09.27	2022.08.05
23	3-Loop Antenna	Daze	ZN30401	17014	2021.09.27	2022.08.05
24	loop antenna	ZHINAN	ZN30900A	/	2021.09.27	2022.08.05
25	Horn antenna	A/H/System	SAS-574	588	2021.09.27	2022.08.05
26	Amplifier	AEROFLEX	/	S/N/ 097	2021.09.27	2022.08.05

6. RF OUTPUT POWER

6.1 Standard Applicable

According to §22.913(a)(2), The ERP of mobile and portable stations transmitters and auxiliary test transmitters must not exceed 7 Watts.

According to §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.

6.2 Test Procedure

Conducted output power test method:



Radiated power test method:

1. The setup of EUT is according with per ANSI/TIA Standard 603D and ANSI C63.4-2014 measurement procedure.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the 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.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

6.3 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

6.4 Summary of Test Results/Plots

Max. Radiated Power

ERP For GPRS Mode GSM850

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
824.2	29.35	1.5	0	H	1.5	0.5	28.35	38.45
824.2	30.26	1.5	0	V	1.5	0.5	29.26	38.45
Middle Channel								
836.6	29.94	1.5	0	H	1.5	0.5	28.94	38.45
836.6	29.20	1.5	0	V	1.5	0.5	28.20	38.45
High Channel								
848.8	30.22	1.5	0	H	1.5	0.5	29.22	38.45
848.8	30.24	1.5	0	V	1.5	0.5	29.24	38.45

EIRP For GPRS Mode PCS1900

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
1850.2	26.94	1.5	0	H	1.9	2	27.04	33.00
1850.2	26.39	1.5	0	V	1.9	2	26.49	33.00
Middle Channel								
1880	27.03	1.5	0	H	1.9	2	27.13	33.00
1880	27.69	1.5	0	V	1.9	2	27.79	33.00
High Channel								
1909.8	26.96	1.5	0	H	1.9	2	27.06	33.00
1909.8	27.58	1.5	0	V	1.9	2	27.68	33.00

ERP For EDGE Mode GSM850

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
824.2	22.87	1.5	0	H	1.5	0.5	21.87	38.45
824.2	23.46	1.5	0	V	1.5	0.5	22.46	38.45
Middle Channel								
836.6	22.56	1.5	0	H	1.5	0.5	21.56	38.45
836.6	23.18	1.5	0	V	1.5	0.5	22.18	38.45
High Channel								
848.8	22.98	1.5	0	H	1.5	0.5	21.98	38.45
848.8	23.32	1.5	0	V	1.5	0.5	22.32	38.45

EIRP For EDGE Mode PCS1900

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
1850.2	22.66	1.5	0	H	1.9	2	22.76	33.00
1850.2	23.00	1.5	0	V	1.9	2	23.10	33.00
Middle Channel								
1880	22.97	1.5	0	H	1.9	2	23.07	33.00
1880	22.85	1.5	0	V	1.9	2	22.95	33.00
High Channel								
1909.8	22.74	1.5	0	H	1.9	2	22.84	33.00
1909.8	22.67	1.5	0	V	1.9	2	22.77	33.00

ERP For WCDMA Mode Band 5

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit
MHz	dBm	Meter	Degree	H / V	dB	dBd	dBm	dBm
Low Channel								
826.4	21.28	1.5	0	H	1.5	0.5	20.28	38.45
826.4	21.46	1.5	0	V	1.5	0.5	20.46	38.45
Middle Channel								
836.6	21.34	1.5	0	H	1.5	0.5	20.34	38.45
836.6	20.95	1.5	0	V	1.5	0.5	19.95	38.45
High Channel								
846.6	21.61	1.5	0	H	1.5	0.5	20.61	38.45
846.6	21.02	1.5	0	V	1.5	0.5	20.02	38.45

ERP For HSDPA Mode Band 5

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit
MHz	dBm	Meter	Degree	H / V	dB	dBd	dBm	dBm
Low Channel								
826.4	20.14	1.5	0	H	1.5	0.5	19.14	38.45
826.4	21.21	1.5	0	V	1.5	0.5	20.21	38.45
Middle Channel								
836.6	21.06	1.5	0	H	1.5	0.5	20.06	38.45
836.6	20.08	1.5	0	V	1.5	0.5	19.08	38.45
High Channel								
846.6	21.86	1.5	0	H	1.5	0.5	20.86	38.45
846.6	21.84	1.5	0	V	1.5	0.5	20.84	38.45

ERP For HSUPA Mode Band 5

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit
MHz	dBm	Meter	Degree	H / V	dB	dBd	dBm	dBm
Low Channel								
826.4	19.39	1.5	0	H	1.5	0.5	18.39	38.45
826.4	20.51	1.5	0	V	1.5	0.5	19.51	38.45
Middle Channel								
836.6	20.64	1.5	0	H	1.5	0.5	19.64	38.45
836.6	19.77	1.5	0	V	1.5	0.5	18.77	38.45
High Channel								
846.6	20.26	1.5	0	H	1.5	0.5	19.26	38.45
846.6	19.77	1.5	0	V	1.5	0.5	18.77	38.45

EIRP For WCDMA Mode Band 2

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
1852.4	19.17	1.5	0	H	1.9	2	19.27	33
1852.4	18.84	1.5	0	V	1.9	2	18.94	33
Middle Channel								
1880	19.76	1.5	0	H	1.9	2	19.86	33
1880	20.57	1.5	0	V	1.9	2	20.67	33
High Channel								
1907.6	20.79	1.5	0	H	1.9	2	20.89	33
1907.6	20.56	1.5	0	V	1.9	2	20.66	33

EIRP For HSDPA Mode Band 2

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
1852.4	19.50	1.5	0	H	1.9	2	19.60	33
1852.4	19.92	1.5	0	V	1.9	2	20.02	33
Middle Channel								
1880	19.36	1.5	0	H	1.9	2	19.46	33
1880	19.54	1.5	0	V	1.9	2	19.64	33
High Channel								
1907.6	20.79	1.5	0	H	1.9	2	20.89	33
1907.6	20.55	1.5	0	V	1.9	2	20.65	33

EIRP For HSUPA Mode Band 2

Frequency	Substitute SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit
MHz	dBm	Meter	Degree	H / V	dB	dB	dBm	dBm
Low Channel								
1852.4	18.74	1.5	0	H	1.9	2	18.84	33
1852.4	19.61	1.5	0	V	1.9	2	19.71	33
Middle Channel								
1880	18.51	1.5	0	H	1.9	2	18.61	33
1880	19.27	1.5	0	V	1.9	2	19.37	33
High Channel								
1907.6	20.42	1.5	0	H	1.9	2	20.52	33
1907.6	19.71	1.5	0	V	1.9	2	19.81	33

Note: Result = Substitute - Cable loss + Antenna Gain

Max. Conducted Output Power

For Cellular Band (GSM850)

Test Mode	Channel	Frequency (MHz)	Average Power (dBm)	FCC Part 22.913 Limit (dBm)
GPRS(1 Slot)	Low Channel	824.2	32.70	38.45
	Middle Channel	836.6	32.55	38.45
	High Channel	848.8	32.66	38.45
EDGE(1 Slot)	Low Channel	824.2	25.96	38.45
	Middle Channel	836.6	26.08	38.45
	High Channel	848.8	25.39	38.45

For PCS Band (GSM1900)

Test Mode	Channel	Frequency (MHz)	Average Power (dBm)	FCC Part 24.232 Limit (dBm)
GPRS(1 Slot)	Low Channel	1850.2	29.65	33.0
	Middle Channel	1880.0	29.25	33.0
	High Channel	1909.8	29.10	33.0
EDGE(1 Slot)	Low Channel	1850.2	25.99	33.0
	Middle Channel	1880.0	25.64	33.0
	High Channel	1909.8	25.79	33.0

For WCDMA Band 5

Test Mode	Channel	Frequency (MHz)	Average Power (dBm)	FCC Part 22.913 Limit (dBm)
WCDMA	Low Channel	826.4	23.16	38.45
	Middle Channel	836.6	23.19	38.45
	High Channel	846.6	23.20	38.45
HSDPA	Low Channel	826.4	21.98	38.45
	Middle Channel	836.6	21.99	38.45
	High Channel	846.6	21.06	38.45
HSUPA	Low Channel	826.4	21.53	38.45
	Middle Channel	836.6	21.65	38.45
	High Channel	846.6	21.89	38.45

For WCDMA Band 2

Test Mode	Channel	Frequency (MHz)	Average Power (dBm)	FCC Part 24.232 Limit (dBm)
WCDMA	Low Channel	1852.4	21.59	33.00
	Middle Channel	1880.0	21.17	33.00
	High Channel	1907.6	21.13	33.00
HSDPA	Low Channel	1852.4	20.47	33.00
	Middle Channel	1880.0	20.35	33.00
	High Channel	1907.6	20.29	33.00
HSUPA	Low Channel	1852.4	20.98	33.00
	Middle Channel	1880.0	20.33	33.00
	High Channel	1907.6	20.72	33.00

7. PEAK-TO-AVERAGE RATIO(PAR) OF TRANSMITTER

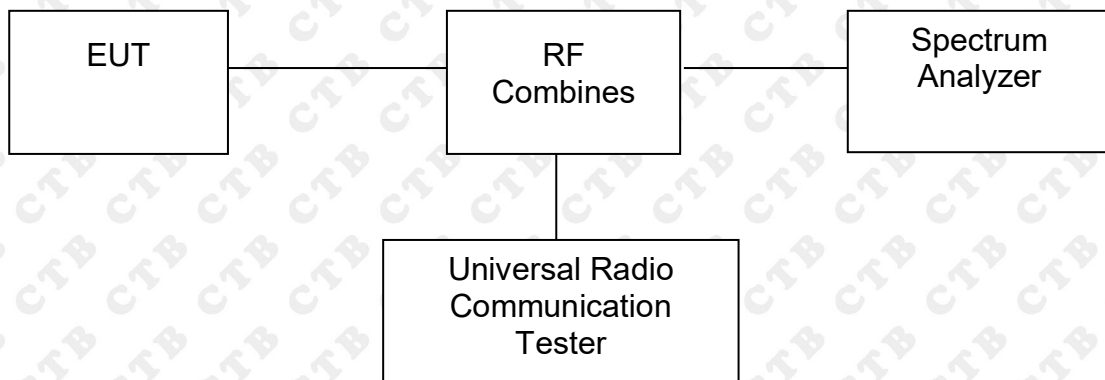
7.1 Standard Applicable

According to §24.232(d), Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

7.2 Test Procedure

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 30kHz and the peak-to-average ratio (PAR) of the transmission was recorded. Record the maximum PAPR level associated with a probability of 0.1%.

Test Configuration for the emission bandwidth testing:



7.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

7.4 Summary of Test Results

Only the worst case was selected to record
For GSM850

Test Mode	Channel	Frequency (MHz)	PAR (dB)	Limit (dB)
GPRS(1 Slot)	190	836.6	2.75	13
EDGE(1 Slot)	190	836.6	2.56	13

For PCS 1900

Test Mode	Channel	Frequency (MHz)	PAR (dB)	Limit (dB)
GPRS(1 Slot)	512	1850.2	2.88	13
EDGE(1 Slot)	512	1850.2	2.33	13

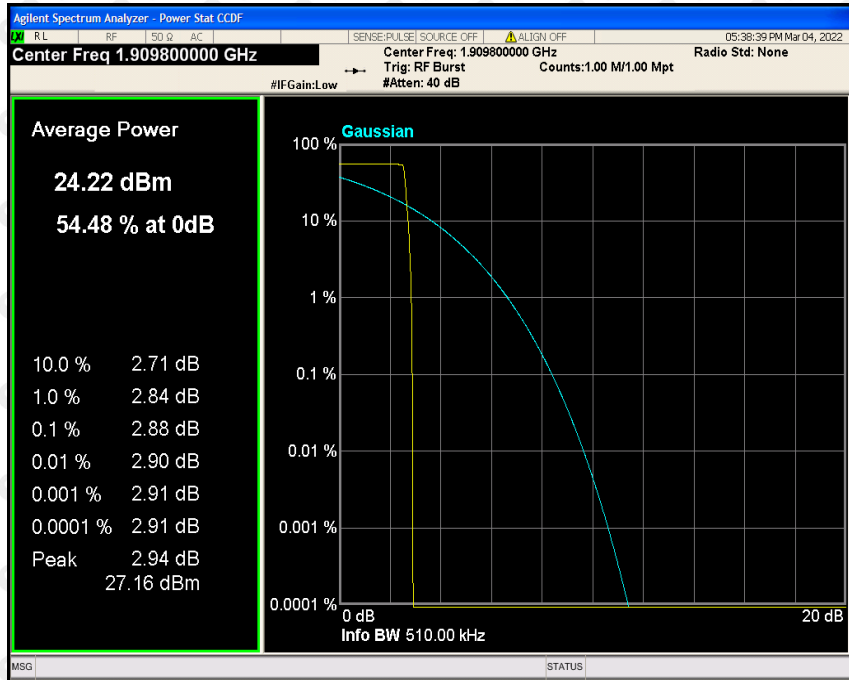
For WCDMA Band 5

Test Mode	Channel	Frequency (MHz)	PAR (dB)	Limit (dB)
WCDMA	4182	836.4	3.08	13
HSDPA	4182	836.4	2.80	13
HSUPA	4182	836.4	2.81	13

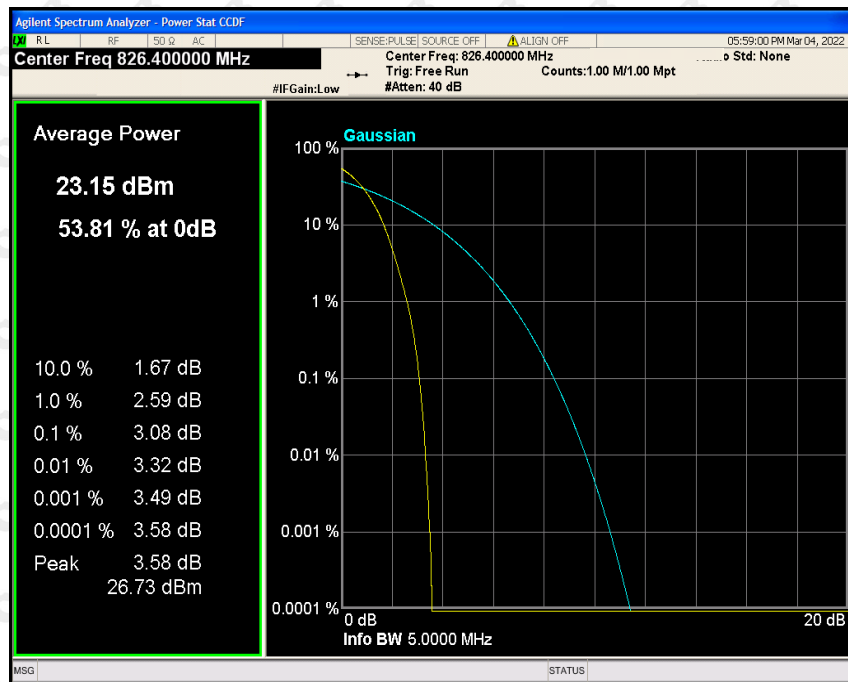
For WCDMA Band 2

Test Mode	Channel	Frequency (MHz)	PAR (dB)	Limit (dB)
WCDMA	9262	1852.4	3.01	13
HSDPA	9400	1852.4	2.91	13
HSUPA	9400	1852.4	2.90	13

GSM :



WCDMA:



8. EMISSION BANDWIDTH

8.1 Standard Applicable

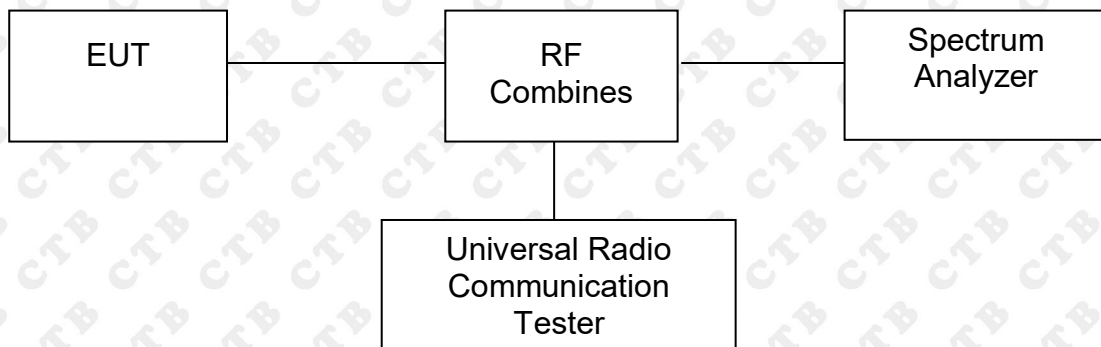
According to §22.917(b), The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

According to §24.238(b), The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

8.2 Test Procedure

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 10kHz for GSM mode and 100kHz for WCDMA mode, VBW shall be at least 3 times the RBW, and the 26dB bandwidth was recorded.

Test Configuration for the emission bandwidth testing:



8.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

8.4 Summary of Test Results/Plots

For Cellular Band

Test Mode	Channel	Frequency (MHz)	99% Emission Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
GPRS	128	824.2	249.327	316.913
	190	836.6	242.784	316.593
	251	848.8	245.328	304.999
EDGE	128	824.2	235.964	283.726
	190	836.6	243.592	311.634
	251	848.8	244.216	301.508

For PCS Band

Test Mode	Channel	Frequency (MHz)	99% Emission Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
GPRS	512	1850.2	244.056	306.724
	661	1880.0	243.467	306.354
	810	1909.8	244.785	313.330
EDGE	512	1850.2	248.227	309.112
	661	1880.0	240.130	309.348
	810	1909.8	232.628	297.466

For Band 5

Test Mode	Channel	Frequency (MHz)	99% Emission Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
WCDMA	4132	826.4	4121.358	4715.230
	4183	836.6	4131.961	4702.233
	4233	846.6	4137.005	4708.989
HSDPA	4132	826.4	4136.913	4688.607
	4183	836.6	4151.466	4701.289
	4233	846.6	4119.798	4703.413
HSUPA	4132	826.4	4126.512	4721.278
	4183	836.6	4109.058	4720.609
	4233	846.6	4148.901	4717.247

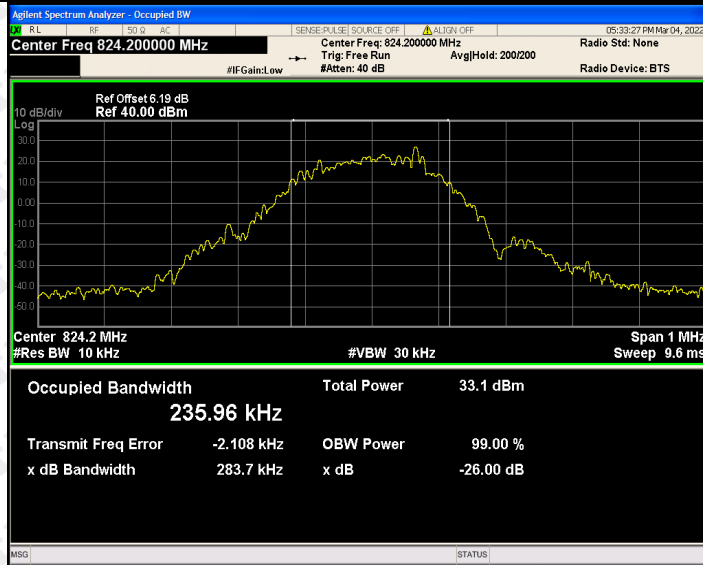
For Band 2

Test Mode	Channel	Frequency (MHz)	99% Emission Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
WCDMA	9262	1852.4	4132.599	4707.872
	9400	1880.0	4125.347	4672.216
	9538	1907.6	4135.145	4694.359
HSDPA	9262	1852.4	4144.811	4705.399
	9400	1880.0	4141.051	4692.558
	9538	1907.6	4140.890	4713.461
HSUPA	9262	1852.4	4134.155	4687.062
	9400	1880.0	4130.377	4717.302
	9538	1907.6	4145.164	4715.486

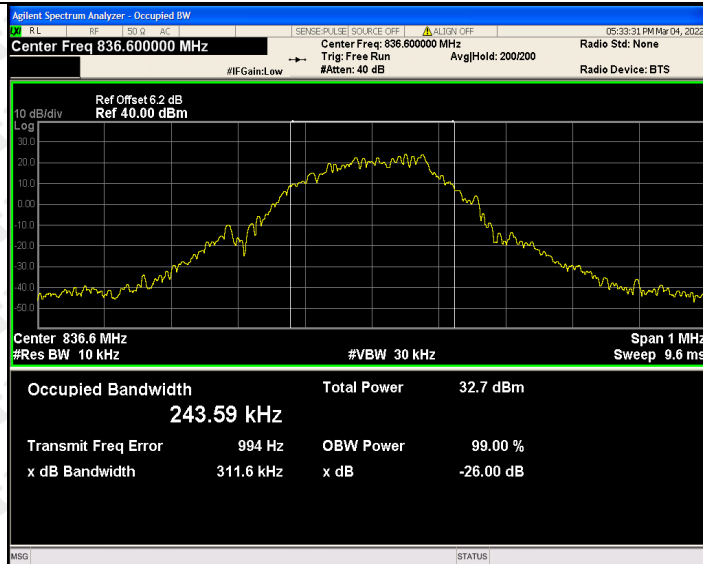
For Cellular Band



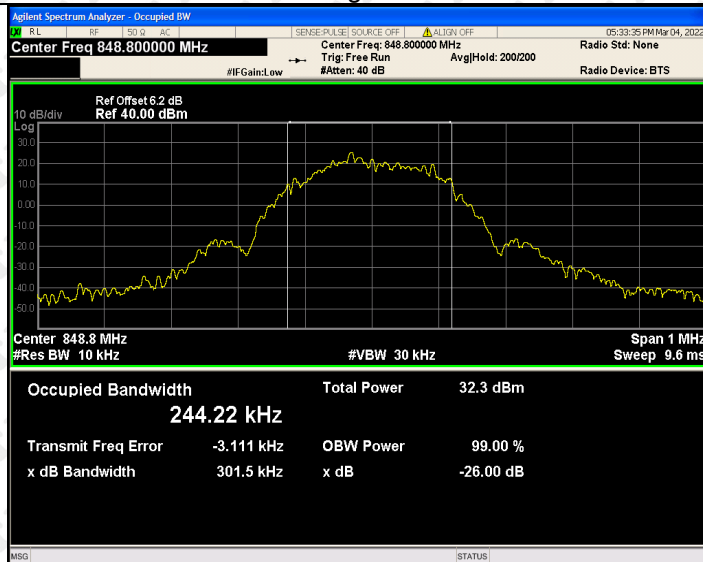
EDGE Low Channel



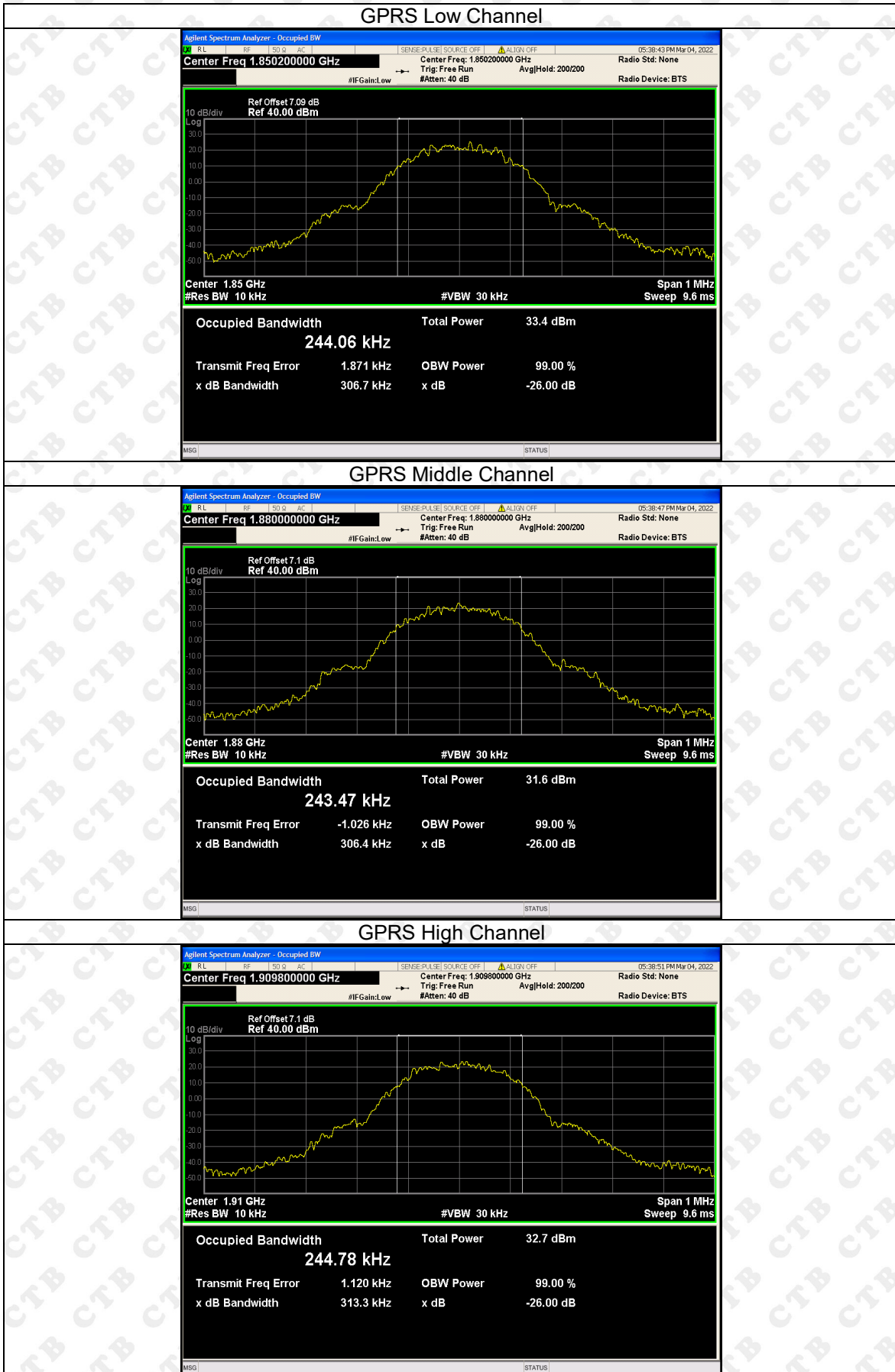
EDGE Middle Channel

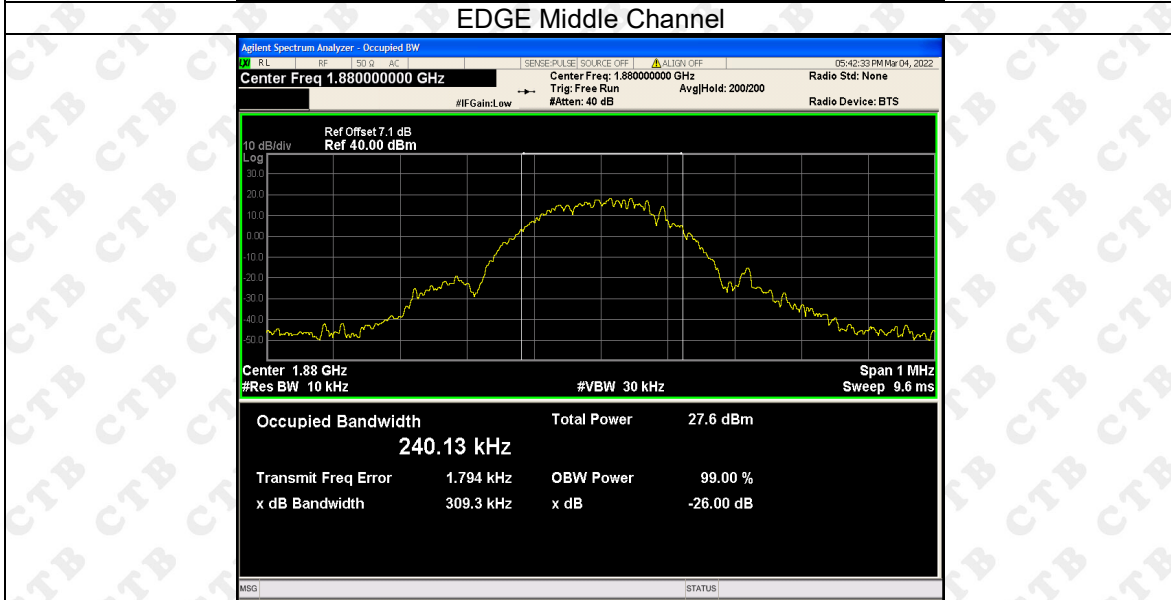
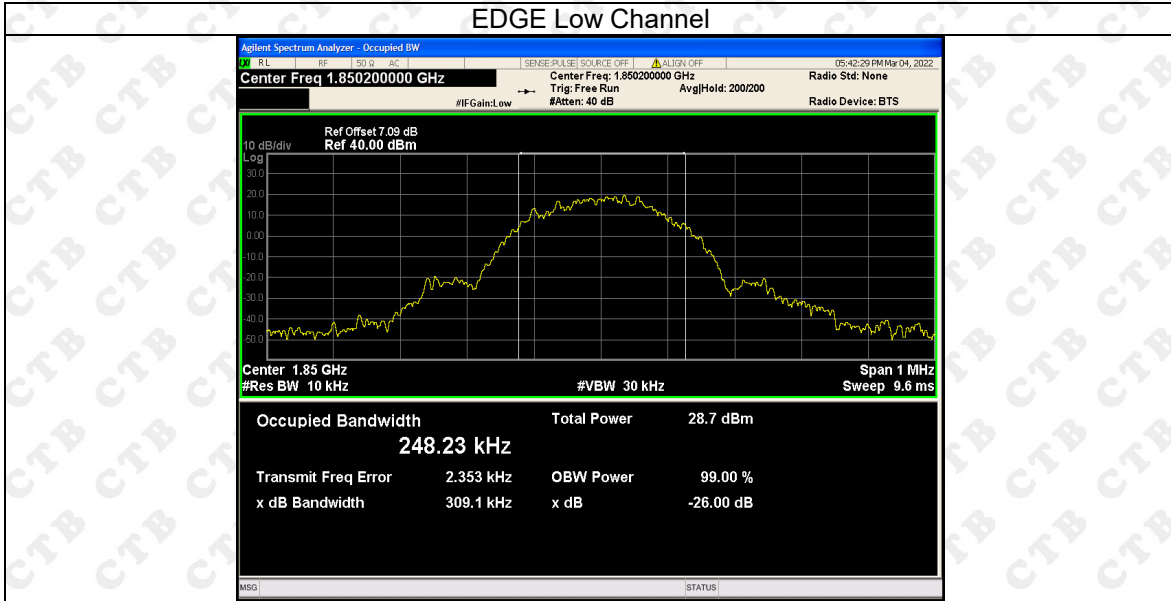


EDGE High Channel

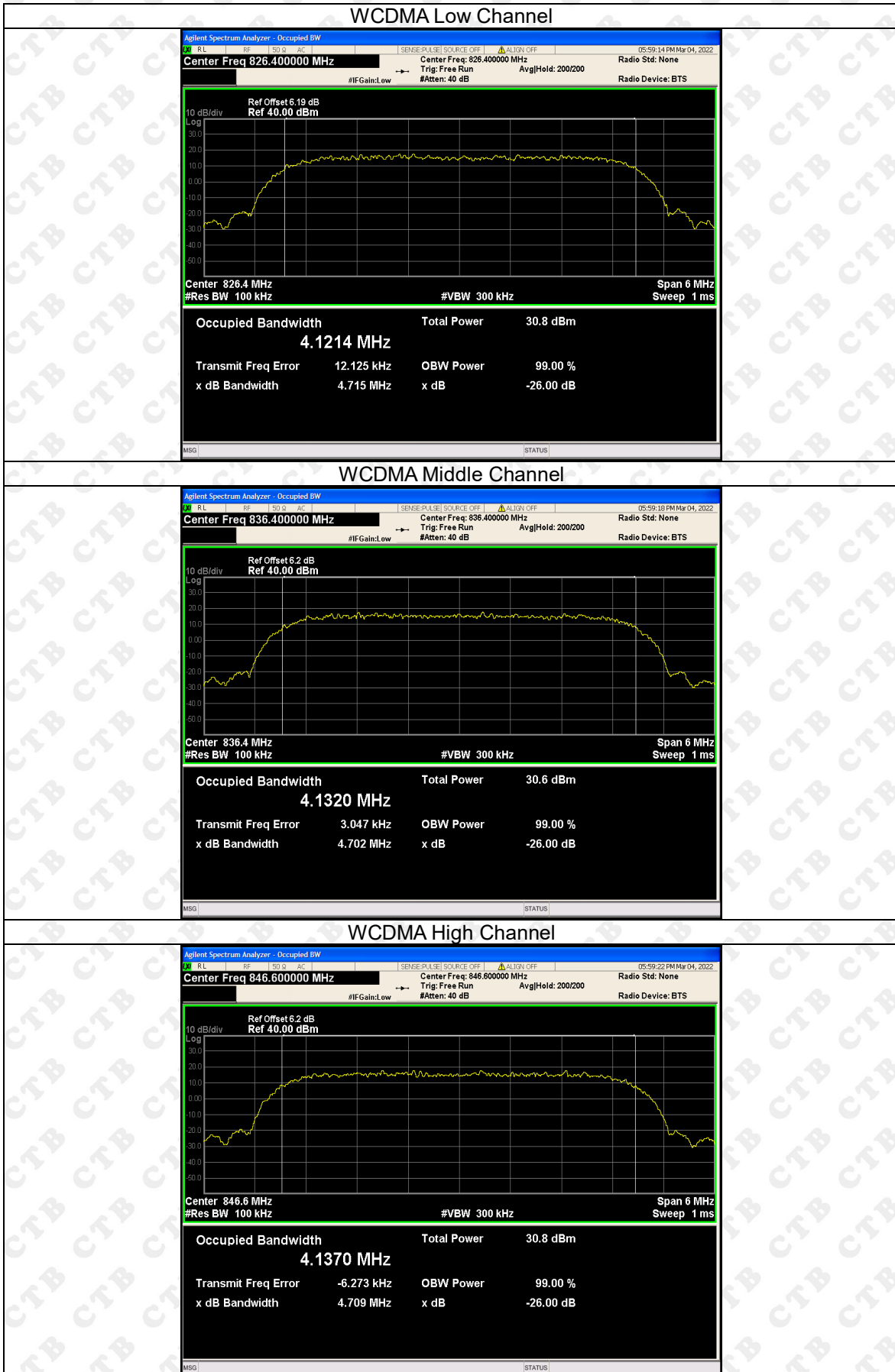


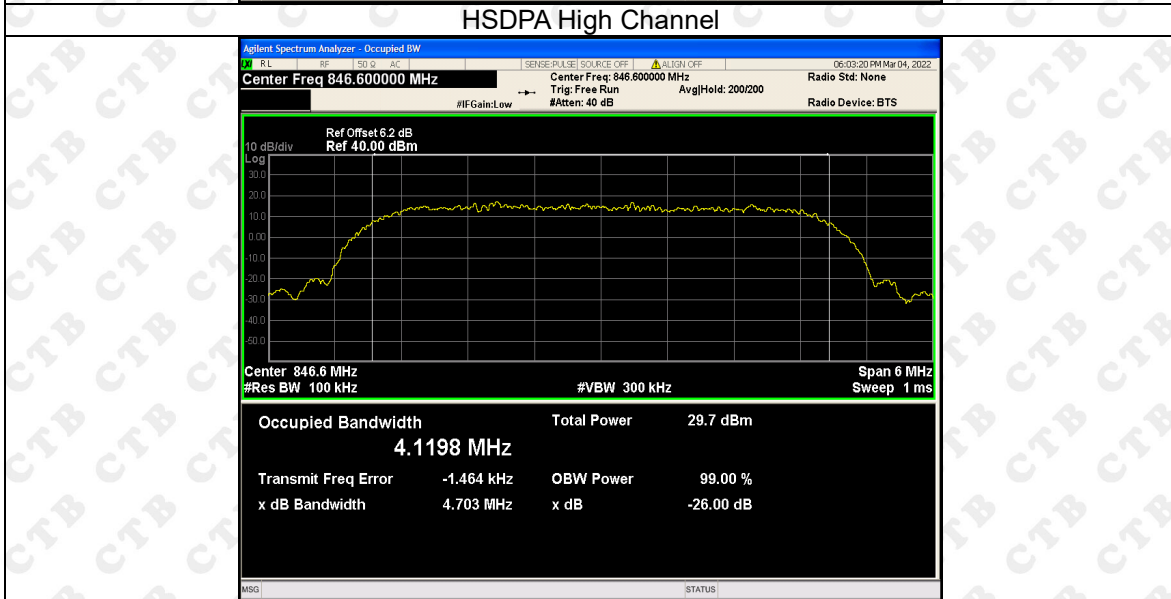
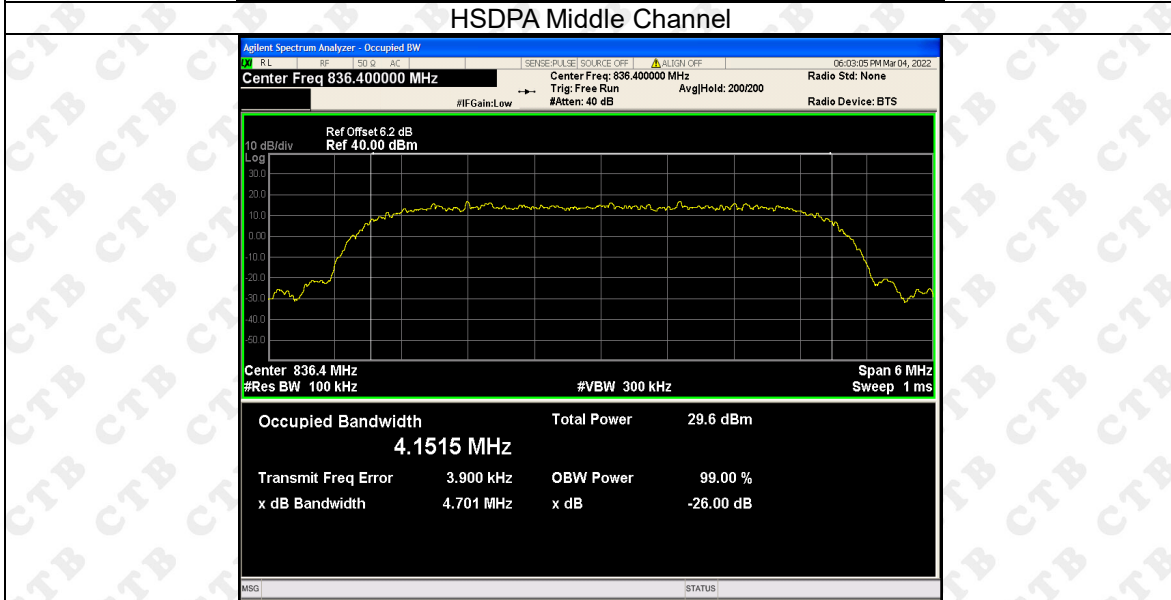
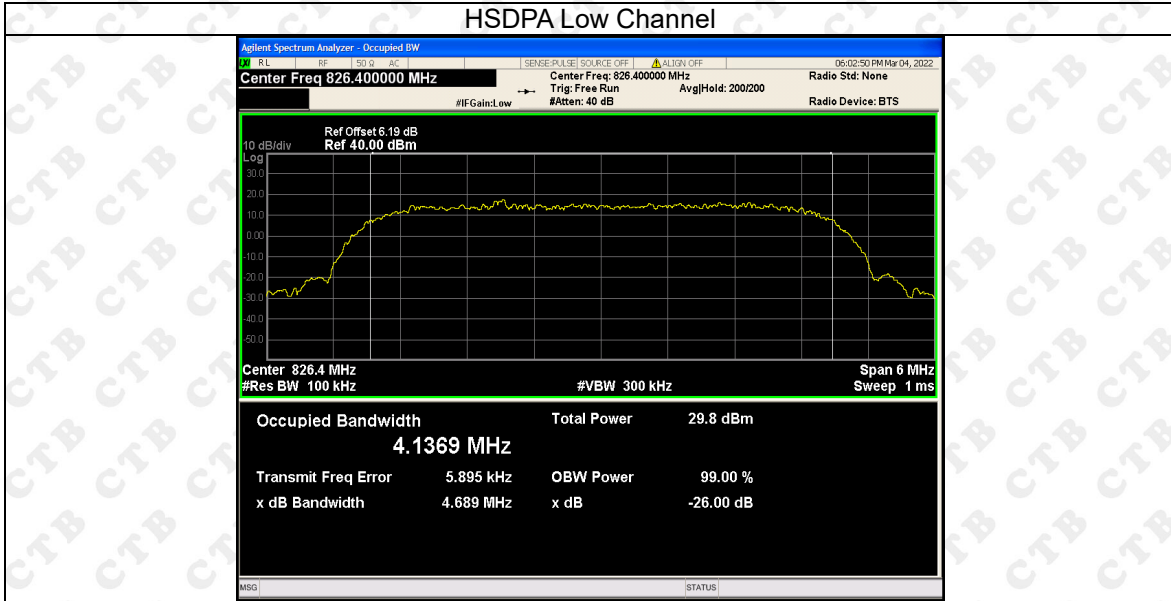
For PCS Band

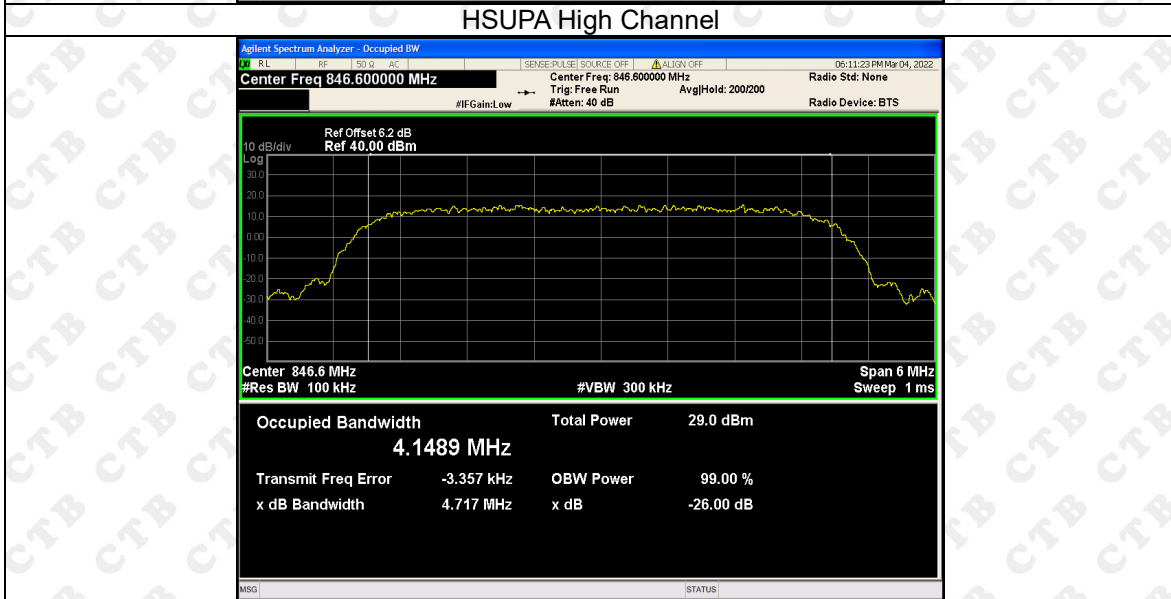
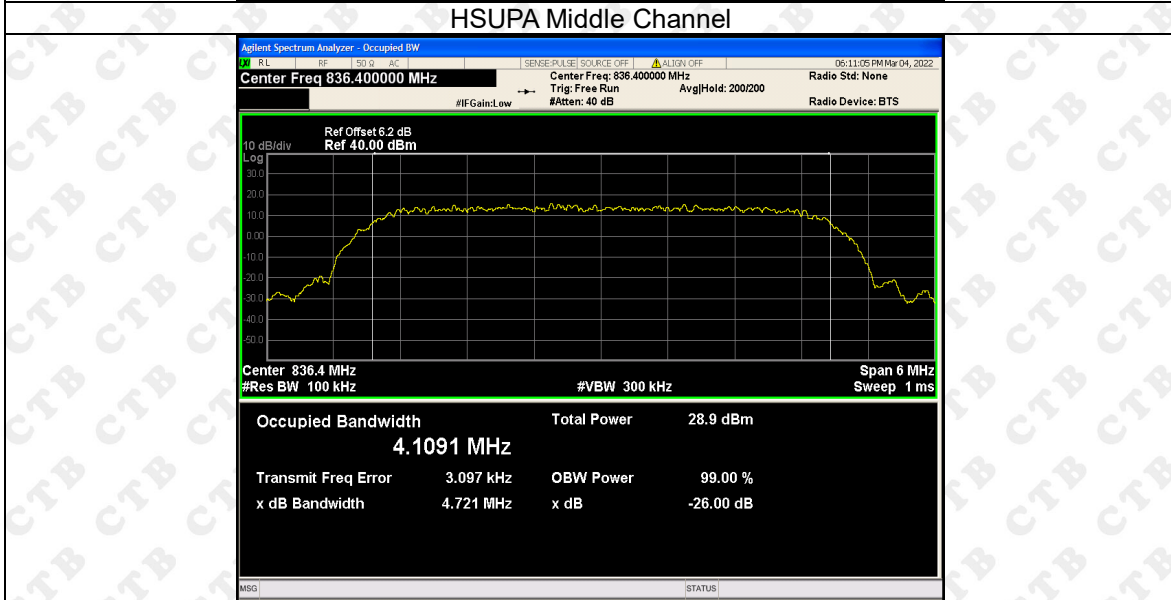
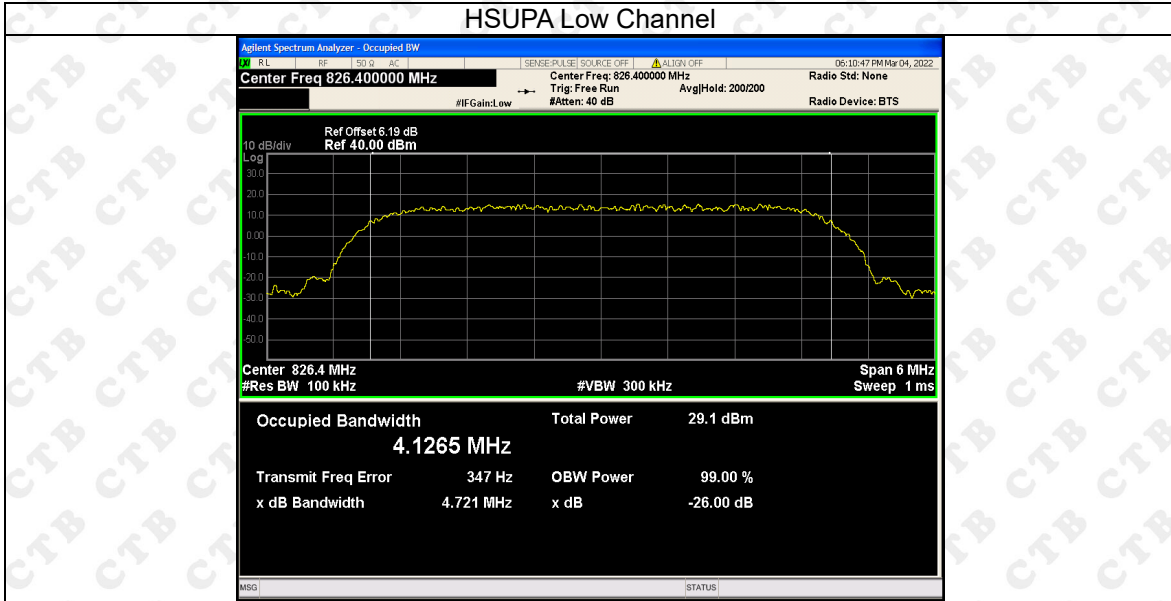




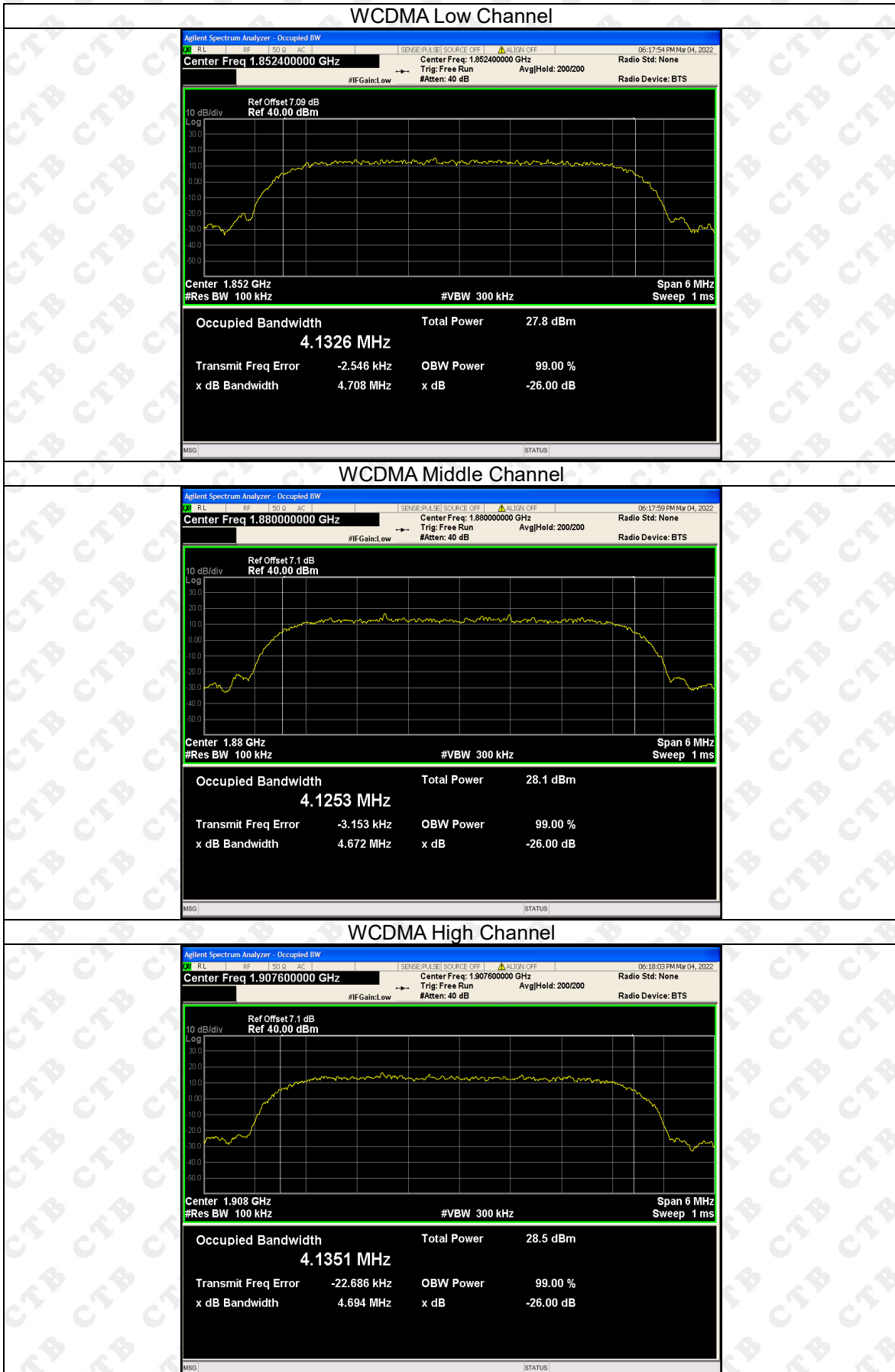
For Band V

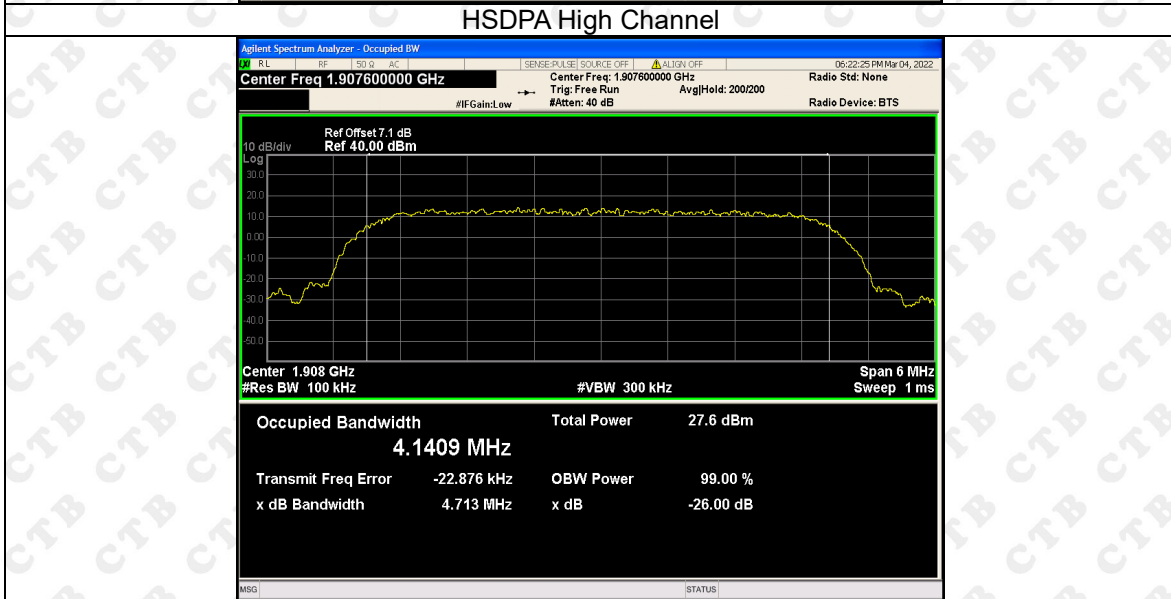
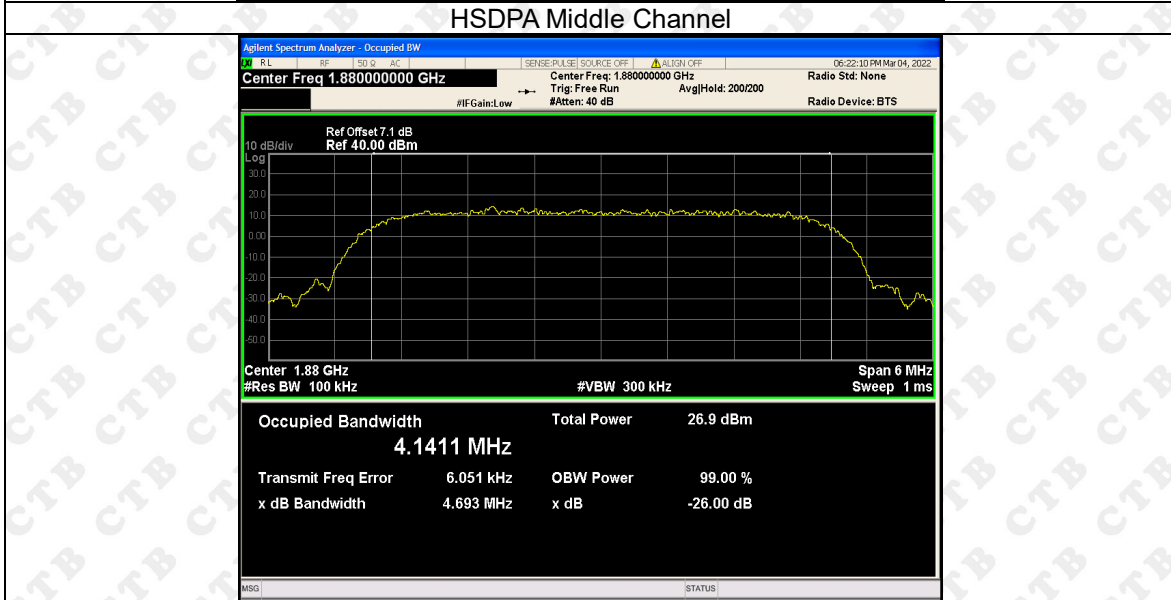
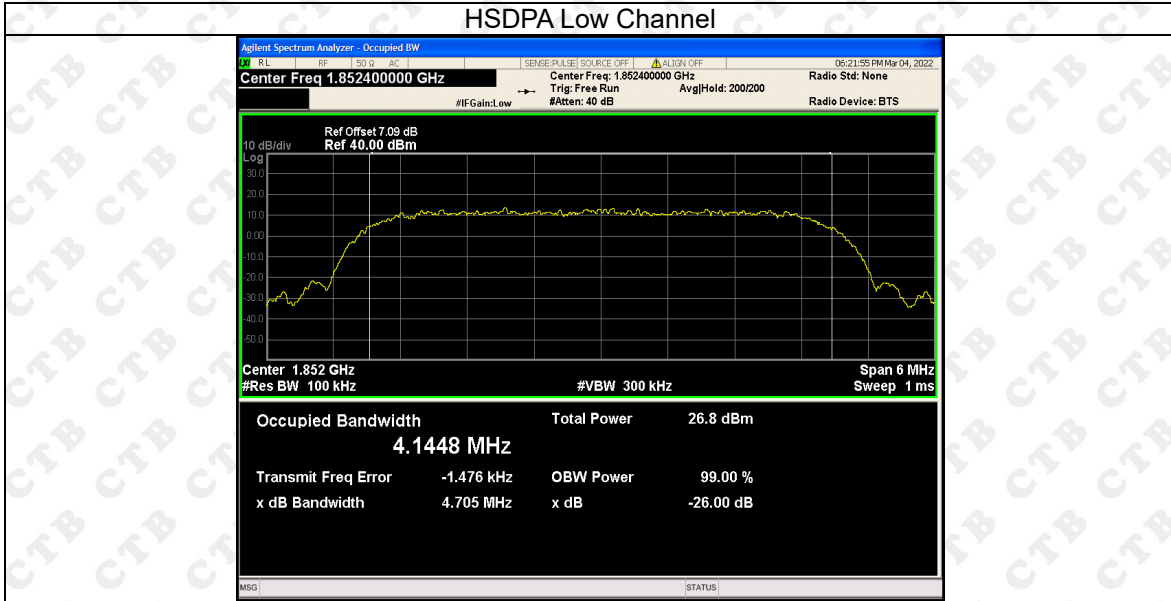




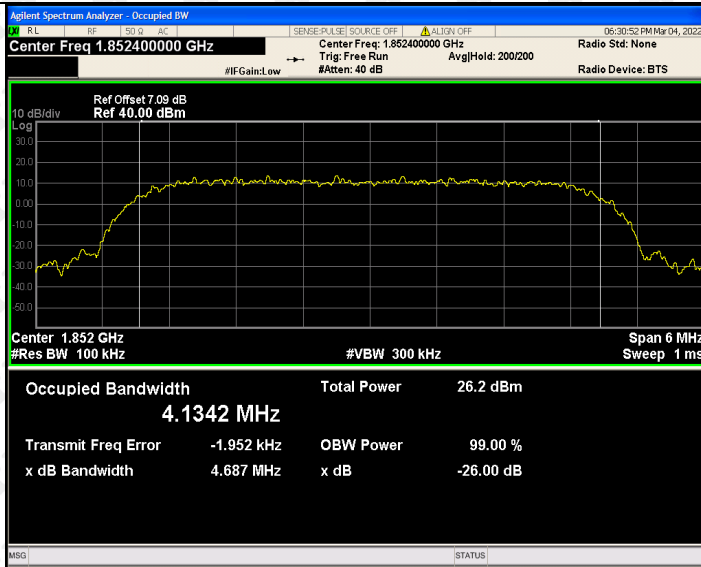


For Band II

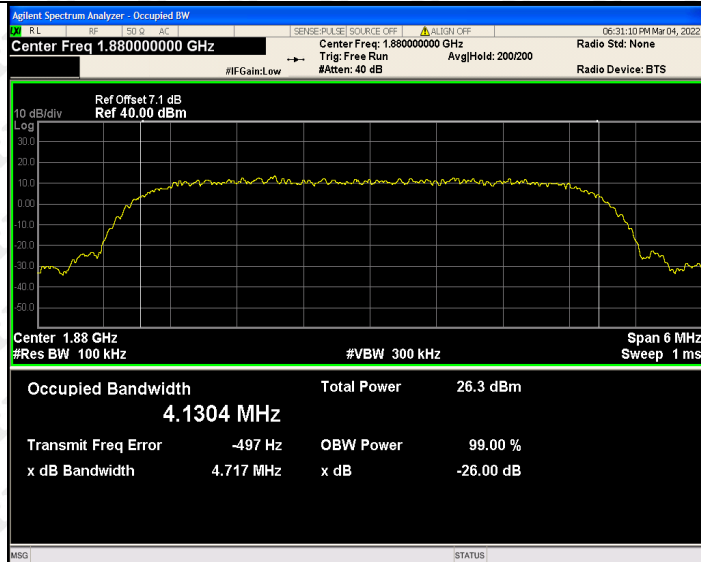




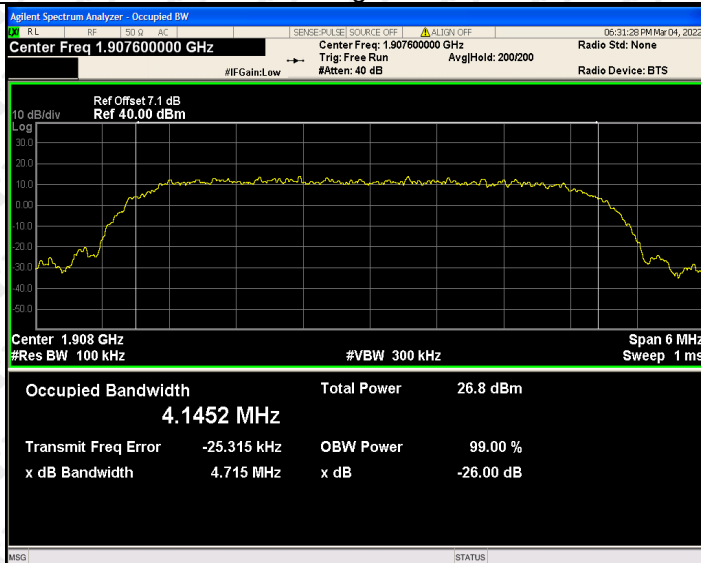
HSUPA Low Channel



HSUPA Middle Channel



HSUPA High Channel



9. OUT OF BAND EMISSIONS AT ANTENNA TERMINAL

9.1 Standard Applicable

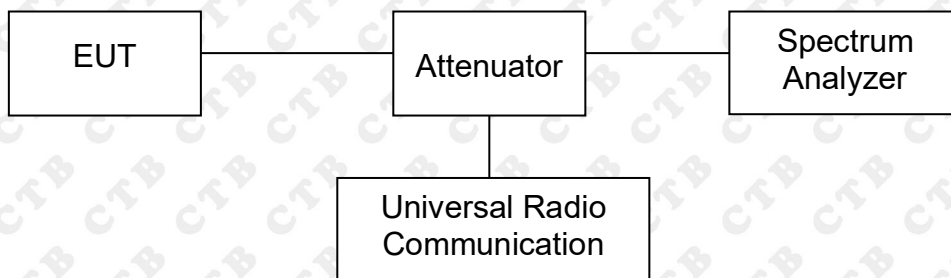
According to §22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

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.

9.2 Test Procedure

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 100kHz and 1MHz for the scan frequency from 30MHz to 1GHz and the scan frequency from 1GHz to up to 10th harmonic.

Test Configuration for the out of band emissions testing:



9.3 Environmental Conditions

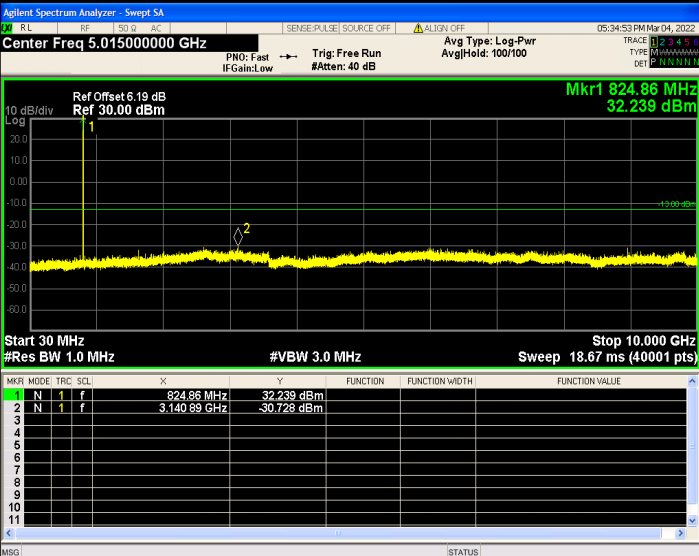
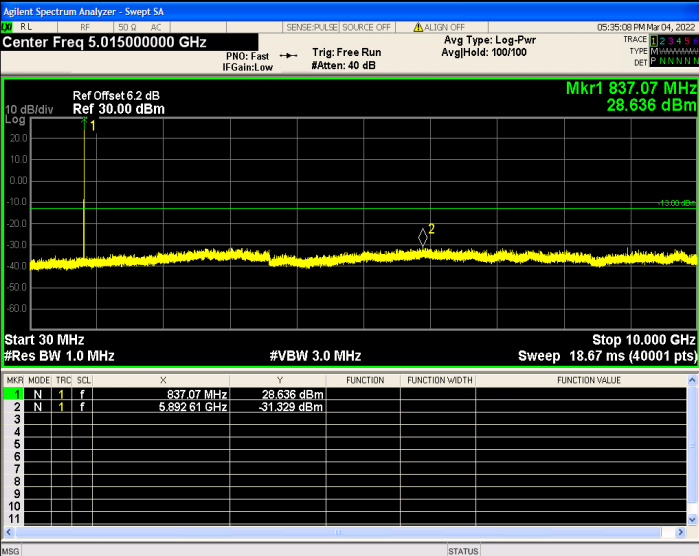
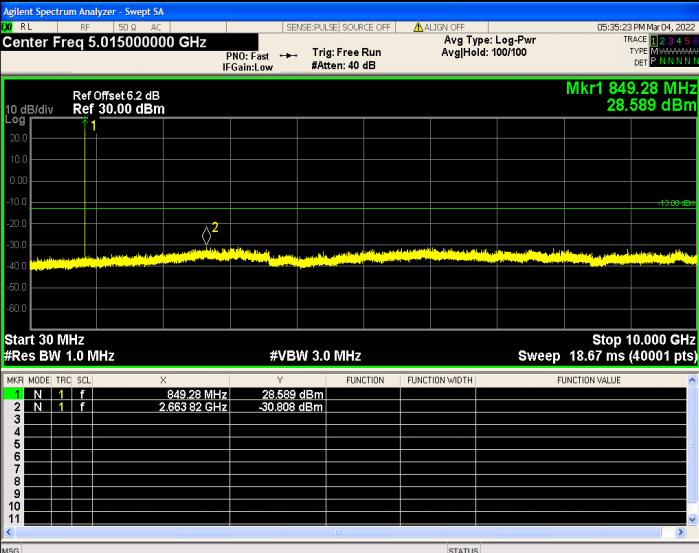
Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

9.4 Summary of Test Results/Plots

Please refer to the following test plots
For Cellular Band

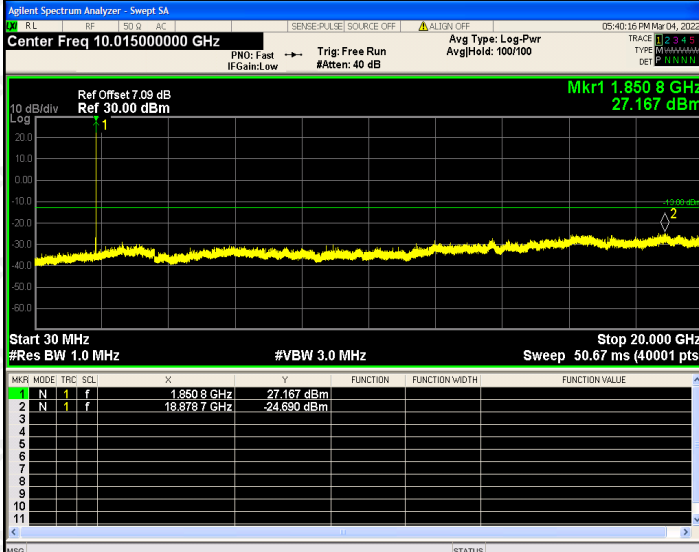
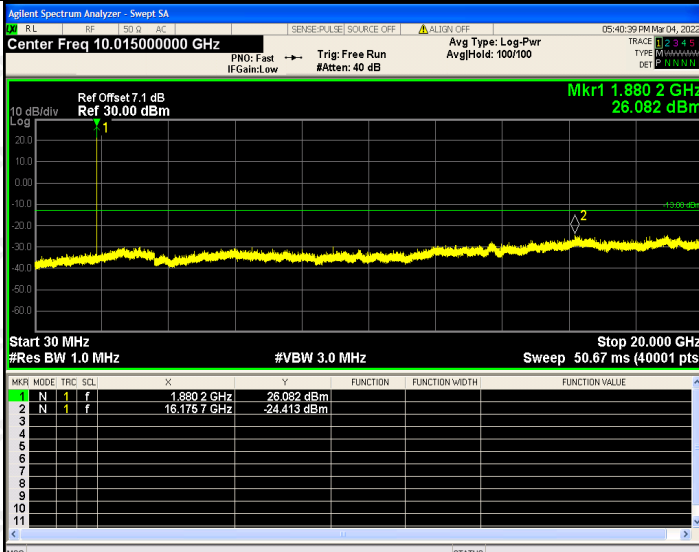
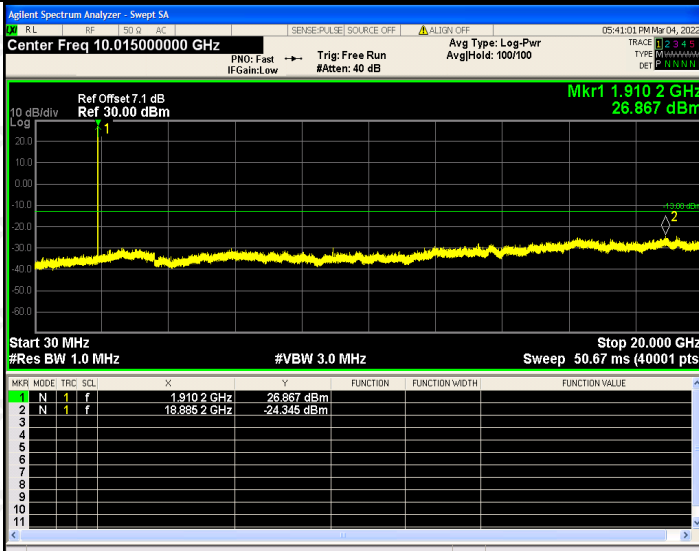
<p>GPRS Low Channel</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 5.015000000 GHz Ref Offset 6.19 dB Ref 30.00 dBm Mkr1 824.86 MHz 32.283 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 10,000 GHz Sweep 18.67 ms (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>824.86 MHz</td> <td>32.283 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>8.956 64 GHz</td> <td>-30.362 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	824.86 MHz	32.283 dBm				2	N	1	f	8.956 64 GHz	-30.362 dBm				
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																					
1	N	1	f	824.86 MHz	32.283 dBm																								
2	N	1	f	8.956 64 GHz	-30.362 dBm																								
<p>GPRS Middle Channel</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 5.015000000 GHz Ref Offset 6.2 dB Ref 30.00 dBm Mkr1 837.07 MHz 32.444 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 10,000 GHz Sweep 18.67 ms (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>837.07 MHz</td> <td>32.444 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>2.663 33 GHz</td> <td>-30.700 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	837.07 MHz	32.444 dBm				2	N	1	f	2.663 33 GHz	-30.700 dBm				
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																					
1	N	1	f	837.07 MHz	32.444 dBm																								
2	N	1	f	2.663 33 GHz	-30.700 dBm																								
<p>GPRS High Channel</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 5.015000000 GHz Ref Offset 6.2 dB Ref 30.00 dBm Mkr1 849.28 MHz 32.412 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 10,000 GHz Sweep 18.67 ms (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>849.28 MHz</td> <td>32.412 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>5.879 15 GHz</td> <td>-29.986 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	849.28 MHz	32.412 dBm				2	N	1	f	5.879 15 GHz	-29.986 dBm				
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																					
1	N	1	f	849.28 MHz	32.412 dBm																								
2	N	1	f	5.879 15 GHz	-29.986 dBm																								

<p>GPRS Low Band Emission</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 824.200000 MHz Ref Offset 6.18 dB Ref 30.00 dBm Mkr1 823.980 MHz -27.290 dBm Span 2.000 MHz Res BW 3.0 kHz #VBW 10 kHz* Sweep 272.3 ms (1001 pts)</p>
<p>GPRS High Band Emission</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 848.800000 MHz Ref Offset 6.2 dB Ref 30.00 dBm Mkr1 849.020 MHz -25.995 dBm Span 2.000 MHz Res BW 3.0 kHz #VBW 10 kHz* Sweep 272.3 ms (1001 pts)</p>

<p>EDGE Low Channel</p>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 5.015000000 GHz Ref Offset 6.19 dB Ref 30.00 dBm Mkr1 824.86 MHz 32.239 dBm Mkr2 3.14059 GHz -30.723 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 10.000 GHz Sweep 18.67 ms (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>824.86 MHz</td> <td>32.239 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>3.14059 GHz</td> <td>-30.723 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	824.86 MHz	32.239 dBm				2	N	1	f	3.14059 GHz	-30.723 dBm				
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																					
1	N	1	f	824.86 MHz	32.239 dBm																								
2	N	1	f	3.14059 GHz	-30.723 dBm																								
<p>EDGE Middle Channel</p>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 5.015000000 GHz Ref Offset 6.2 dB Ref 30.00 dBm Mkr1 837.07 MHz 28.636 dBm Mkr2 5.89261 GHz -31.329 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 10.000 GHz Sweep 18.67 ms (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>837.07 MHz</td> <td>28.636 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>5.89261 GHz</td> <td>-31.329 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	837.07 MHz	28.636 dBm				2	N	1	f	5.89261 GHz	-31.329 dBm				
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																					
1	N	1	f	837.07 MHz	28.636 dBm																								
2	N	1	f	5.89261 GHz	-31.329 dBm																								
<p>EDGE High Channel</p>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 5.015000000 GHz Ref Offset 6.2 dB Ref 30.00 dBm Mkr1 849.28 MHz 28.589 dBm Mkr2 2.66392 GHz -30.808 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 10.000 GHz Sweep 18.67 ms (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>849.28 MHz</td> <td>28.589 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>2.66392 GHz</td> <td>-30.808 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	849.28 MHz	28.589 dBm				2	N	1	f	2.66392 GHz	-30.808 dBm				
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																					
1	N	1	f	849.28 MHz	28.589 dBm																								
2	N	1	f	2.66392 GHz	-30.808 dBm																								

<p>EDGE Low Band Emission</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 824.200000 MHz Ref Offset 6.18 dB Ref 30.00 dBm Mkr1 823.978 MHz -36.447 dBm Trace 1 Pass Center 824.200 MHz #Res BW 3.0 kHz #VBW 10 kHz* Span 2.000 MHz Sweep 272.3 ms (1001 pts)</p>
<p>EDGE High Band Emission</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 848.800000 MHz Ref Offset 6.2 dB Ref 30.00 dBm Mkr1 849.016 MHz -36.521 dBm Trace 1 Pass Center 848.800 MHz #Res BW 3.0 kHz #VBW 10 kHz* Span 2.000 MHz Sweep 272.3 ms (1001 pts)</p>

For PCS Band

<p>GPRS Low Channel</p>		
<p>GPRS Middle Channel</p>		
<p>GPRS High Channel</p>		

<p>GPRS Low Band Emission</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.909800000 GHz Ref Offset 7.1 dB Ref 30.00 dBm Mkr1 1.910 016 GHz -34.282 dBm Center 1.909800 GHz #Res BW 3.0 kHz #VBW 10 kHz* Span 2.000 MHz Sweep 272.3 ms (1001 pts)</p>	
<p>GPRS High Band Emission</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.850200000 GHz Ref Offset 7.09 dB Ref 30.00 dBm Mkr1 1.849 974 GHz -33.478 dBm Center 1.850200 GHz #Res BW 3.0 kHz #VBW 10 kHz* Span 2.000 MHz Sweep 272.3 ms (1001 pts)</p>	

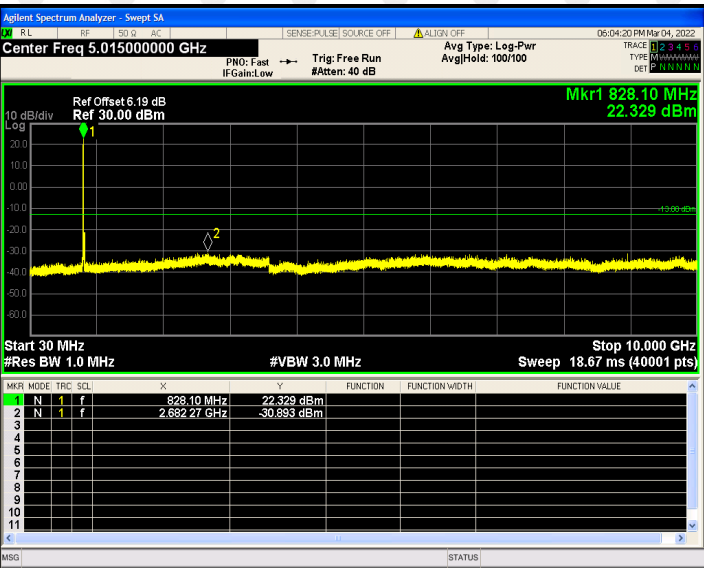
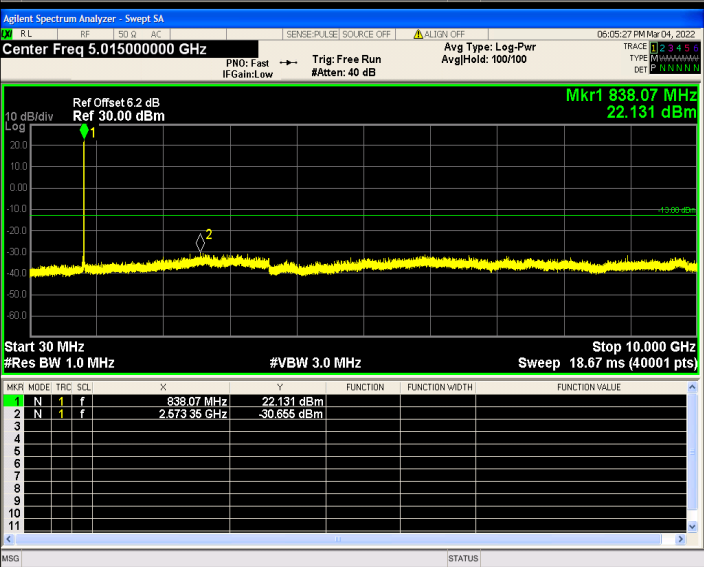
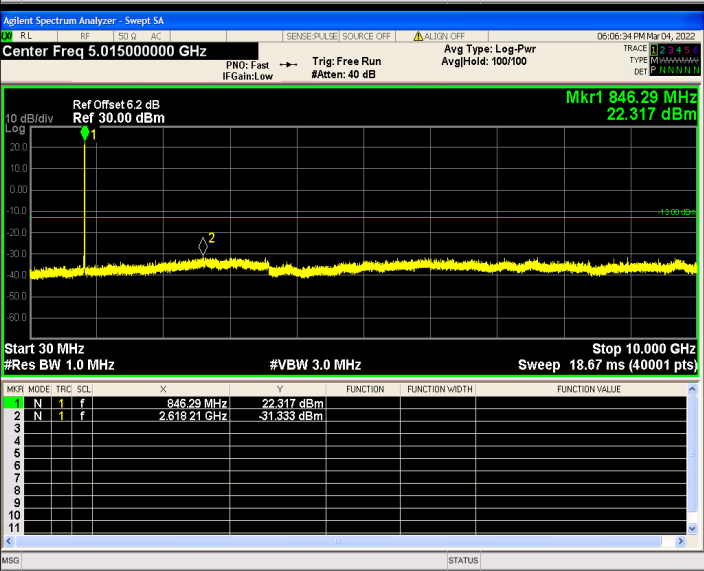
<p>EDGE Low Channel</p>	<table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>1.850 8 GHz</td> <td>23.979 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>16.237 1 GHz</td> <td>-24.054 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.850 8 GHz	23.979 dBm				2	N	1	f	16.237 1 GHz	-24.054 dBm				
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																					
1	N	1	f	1.850 8 GHz	23.979 dBm																								
2	N	1	f	16.237 1 GHz	-24.054 dBm																								
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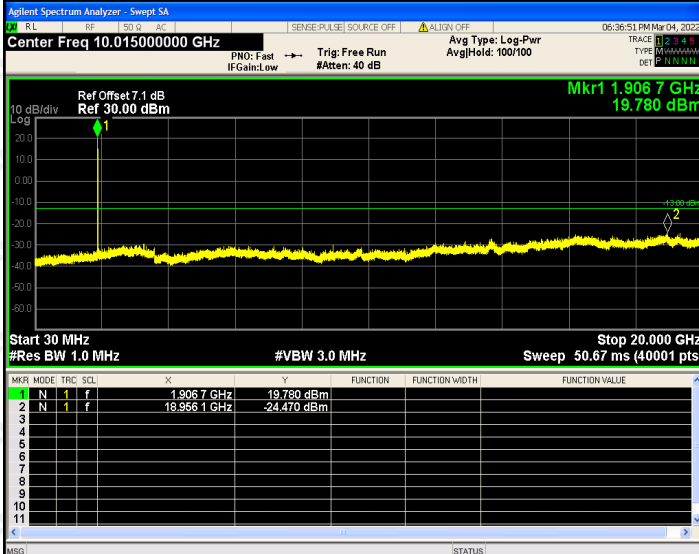
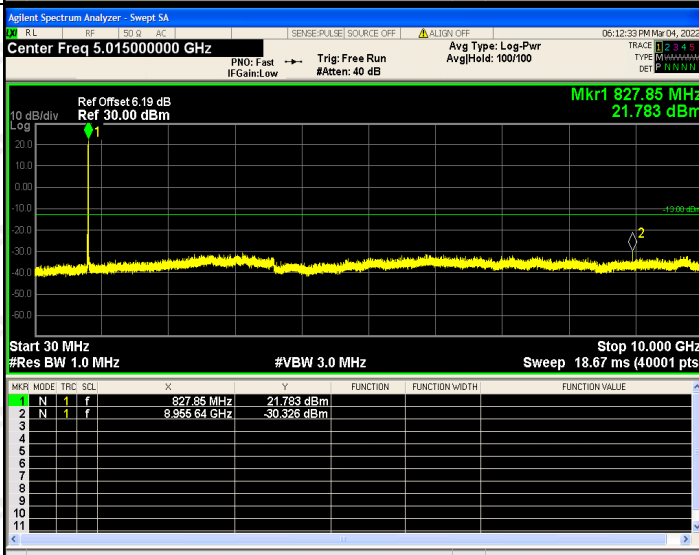
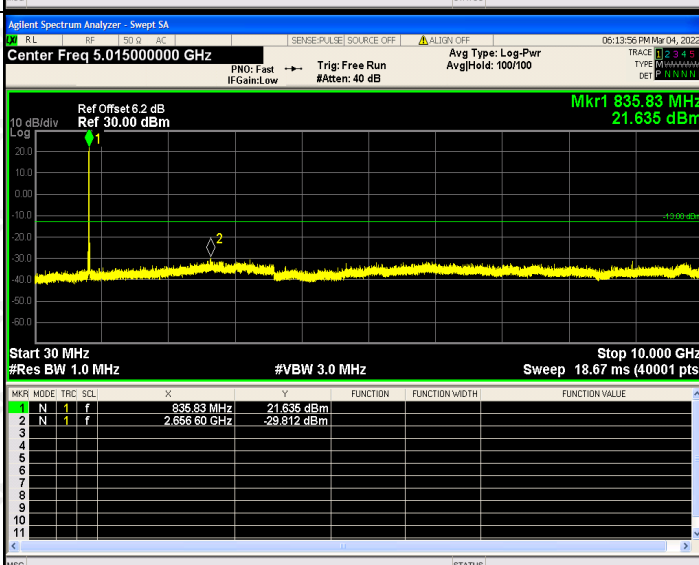
For Band V

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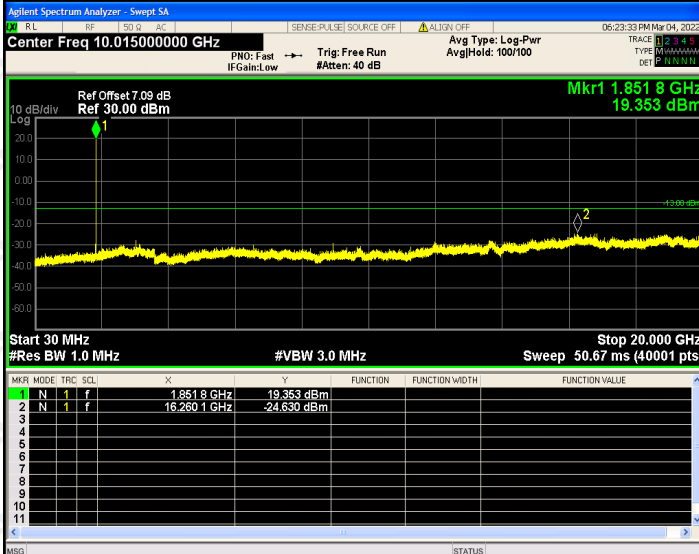
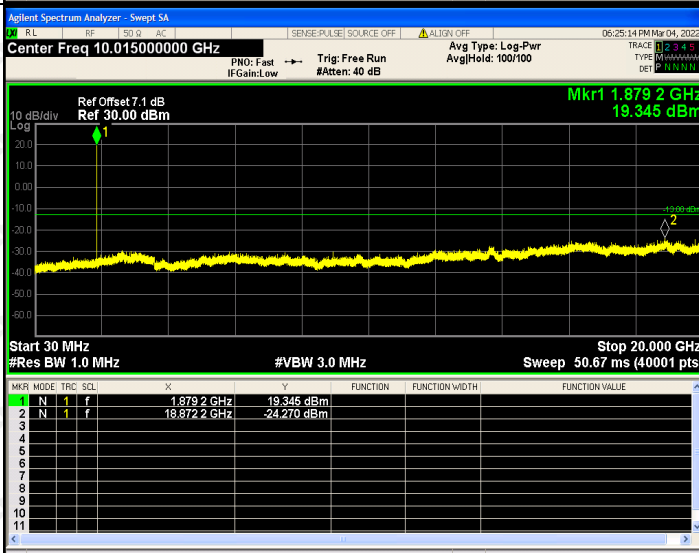
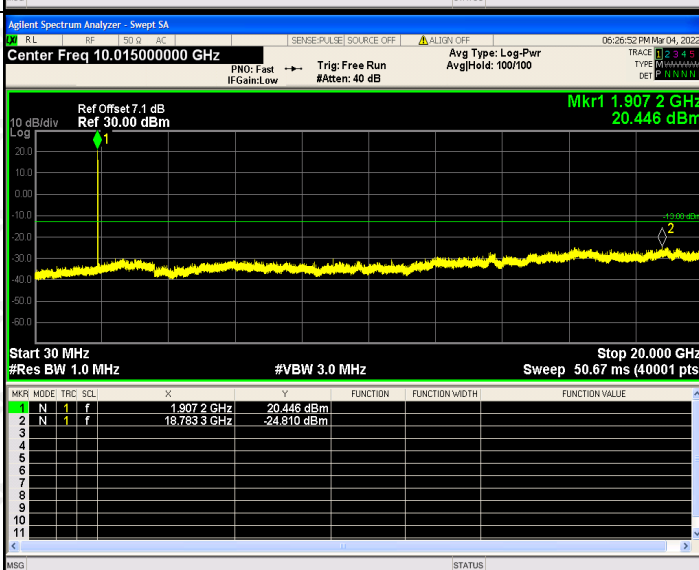
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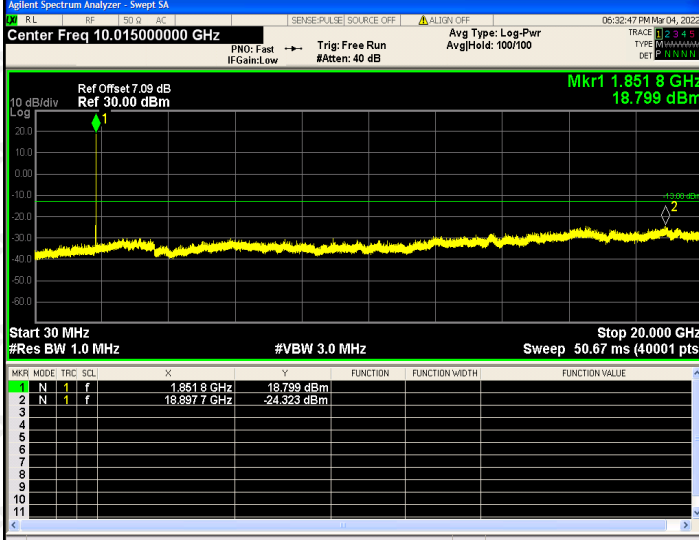
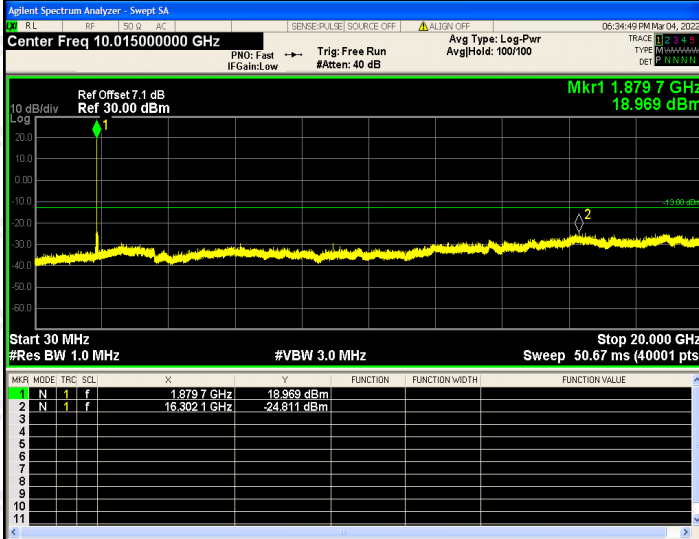
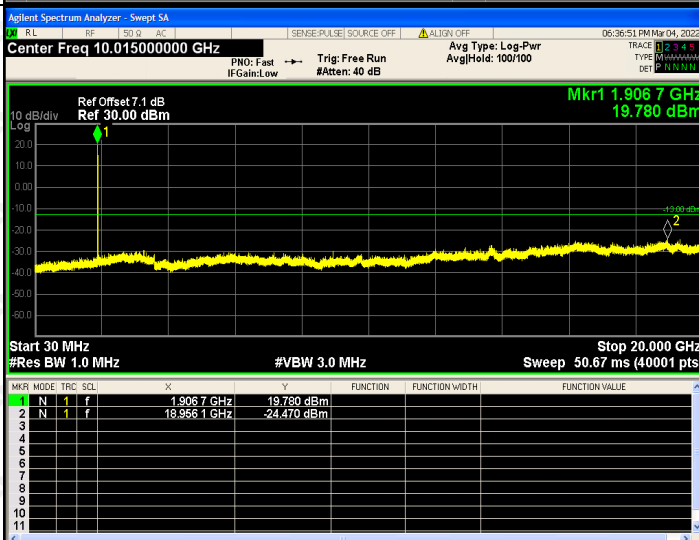
For Band II

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<p>WCDMA Low Band Spurious Emission</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.85000000 GHz Ref Offset 7.08 dB Ref 30.00 dBm Mkr1 1.849 998 GHz -24.259 dBm Span 2.000 MHz #Res BW 100 kHz #VBW 300 kHz* Sweep 1.000 ms (1001 pts)</p>
<p>WCDMA High Band Spurious Emission</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.91000000 GHz Ref Offset 7.1 dB Ref 30.00 dBm Mkr1 1.910 002 GHz -23.672 dBm Span 2.000 MHz #Res BW 100 kHz #VBW 300 kHz* Sweep 1.000 ms (1001 pts)</p>

<p>HSDPA Low Channel</p>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 10.015000000 GHz Mkr1 1.8518 GHz 19.353 dBm Ref Offset 7.09 dB Ref 30.00 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 20,000 GHz Sweep 50.67 ms (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>1.8518 GHz</td> <td>19.353 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>16.2801 GHz</td> <td>-24.630 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.8518 GHz	19.353 dBm				2	N	1	f	16.2801 GHz	-24.630 dBm				
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																					
1	N	1	f	1.8518 GHz	19.353 dBm																								
2	N	1	f	16.2801 GHz	-24.630 dBm																								
<p>HSDPA Middle Channel</p>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 10.015000000 GHz Mkr1 1.8792 GHz 19.345 dBm Ref Offset 7.1 dB Ref 30.00 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 20,000 GHz Sweep 50.67 ms (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>1.8792 GHz</td> <td>19.345 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>18.8722 GHz</td> <td>-24.270 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.8792 GHz	19.345 dBm				2	N	1	f	18.8722 GHz	-24.270 dBm				
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																					
1	N	1	f	1.8792 GHz	19.345 dBm																								
2	N	1	f	18.8722 GHz	-24.270 dBm																								
<p>HSDPA High Channel</p>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 10.015000000 GHz Mkr1 1.9072 GHz 20.446 dBm Ref Offset 7.1 dB Ref 30.00 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 20,000 GHz Sweep 50.67 ms (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>1.9072 GHz</td> <td>20.446 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>18.7893 GHz</td> <td>-24.810 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.9072 GHz	20.446 dBm				2	N	1	f	18.7893 GHz	-24.810 dBm				
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2	N	1	f	18.7893 GHz	-24.810 dBm																								

<p>HSDPA Low Band Spurious Emission</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.85000000 GHz Ref Offset 7.09 dB Ref 30.00 dBm Mkr1 1.849 998 GHz -26.354 dBm Center 1.850000 GHz #Res BW 100 kHz #VBW 300 kHz* Sweep 1.000 ms (1001 pts)</p>	
<p>HSDPA High Band Spurious Emission</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.91000000 GHz Ref Offset 7.1 dB Ref 30.00 dBm Mkr1 1.910 002 GHz -26.394 dBm Center 1.910000 GHz #Res BW 100 kHz #VBW 300 kHz* Sweep 1.000 ms (1001 pts)</p>	

<p>HSUPA Low Channel</p>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 10.015000000 GHz Mkr1 1.8518 GHz 18.799 dBm Ref Offset 7.09 dB Ref 30.00 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 20,000 GHz Sweep 50.67 ms (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>1.8518 GHz</td> <td>18.799 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>18.8977 GHz</td> <td>-24.323 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.8518 GHz	18.799 dBm				2	N	1	f	18.8977 GHz	-24.323 dBm				
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1	N	1	f	1.8518 GHz	18.799 dBm																								
2	N	1	f	18.8977 GHz	-24.323 dBm																								
<p>HSUPA Middle Channel</p>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 10.015000000 GHz Mkr1 1.8797 GHz 18.969 dBm Ref Offset 7.1 dB Ref 30.00 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 20,000 GHz Sweep 50.67 ms (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>1.8797 GHz</td> <td>18.969 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>18.3021 GHz</td> <td>-24.811 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.8797 GHz	18.969 dBm				2	N	1	f	18.3021 GHz	-24.811 dBm				
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<p>HSUPA High Channel</p>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 10.015000000 GHz Mkr1 1.9067 GHz 19.780 dBm Ref Offset 7.1 dB Ref 30.00 dBm Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 20,000 GHz Sweep 50.67 ms (40001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>1.9067 GHz</td> <td>19.780 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>18.9561 GHz</td> <td>-24.470 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.9067 GHz	19.780 dBm				2	N	1	f	18.9561 GHz	-24.470 dBm				
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1	N	1	f	1.9067 GHz	19.780 dBm																								
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<p>HSUPA Low Band Spurious Emission</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.85000000 GHz Ref Offset 7.08 dB Ref 30.00 dBm Mkr1 1.849 998 GHz -26.718 dBm Span 2.000 MHz #Res BW 100 kHz #VBW 300 kHz* Sweep 1.000 ms (1001 pts)</p>
<p>HSUPA High Band Spurious Emission</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.91000000 GHz Ref Offset 7.1 dB Ref 30.00 dBm Mkr1 1.910 002 GHz -26.347 dBm Span 2.000 MHz #Res BW 100 kHz #VBW 300 kHz* Sweep 1.000 ms (1001 pts)</p>

10. SPURIOUS RADIATED EMISSIONS

10.1 Standard Applicable

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.

10.2 Test Procedure

- 1.The setup of EUT is according with per ANSI/TIA Standard 603D and ANSI C63.4-2014 measurement procedure.
- 2.The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the 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.
- 3.The frequency range up to tenth harmonic of the fundamental frequency was investigated.
- 4.Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious attenuation limit in dB = $43 + 10 \log_{10}$ (power out in Watts)

10.3 Environmental Conditions

Temperature:	26 °C
Relative Humidity:	54%
ATM Pressure:	101 kPa
Test Voltage	DC6.4V

10.4 Summary of Test Results/Plots

According to the data below, the FCC Part22.917 and 24.238 standards, and had the worst margin of:

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

All test modes are performed, but only the worst case is recorded in this report.

For Cellular Band GSM850 Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (824.2MHz)						
46.34	-69.73	3.90	-65.83	-13	-52.83	H
1648.4	-54.20	4.83	-49.37	-13	-36.37	H
2472.6	-53.29	8.08	-45.20	-13	-32.20	H
46.34	-69.32	4.02	-65.30	-13	-52.30	V
1648.4	-50.60	4.48	-46.11	-13	-33.11	V
2472.6	-51.30	8.20	-43.10	-13	-30.10	V
Middle Channel (836.6MHz)						
46.34	-69.76	3.84	-65.92	-13	-52.92	H
1673.2	-54.49	4.62	-49.87	-13	-36.87	H
2509.8	-53.04	8.25	-44.78	-13	-31.78	H
46.34	-69.27	4.25	-65.02	-13	-52.02	V
1673.2	-50.45	4.54	-45.91	-13	-32.91	V
2509.8	-51.11	8.35	-42.75	-13	-29.75	V
High Channel (848.8MHz)						
46.34	-69.79	4.22	-65.57	-13	-52.57	H
1697.6	-54.65	4.87	-49.77	-13	-36.77	H
2546.4	-53.06	8.38	-44.68	-13	-31.68	H
46.34	-69.41	4.02	-65.40	-13	-52.40	V
1697.6	-50.45	4.56	-45.89	-13	-32.89	V
2546.4	-51.24	8.41	-42.83	-13	-29.83	V

For PCS Band GSM1900 Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (1850.2MHz)						
46.34	-69.22	4.34	-64.88	-13.00	-51.88	H
3700.4	-53.35	10.54	-42.81	-13.00	-29.81	H
5550.6	-56.25	13.37	-42.88	-13.00	-29.88	H
46.34	-68.54	4.34	-64.20	-13.00	-51.20	V
3700.4	-52.76	10.54	-42.22	-13.00	-29.22	V
5550.6	-56.32	13.37	-42.95	-13.00	-29.95	V
Middle Channel (1880MHz)						
46.34	-69.51	4.02	-65.48	-13.00	-52.48	H
3760.0	-53.49	10.71	-42.78	-13.00	-29.78	H
5640.0	-56.69	13.73	-42.96	-13.00	-29.96	H
46.34	-68.55	4.14	-64.41	-13.00	-51.41	V
3760.0	-53.20	10.22	-42.98	-13.00	-29.98	V
5640.0	-56.41	13.16	-43.25	-13.00	-30.25	V
High Channel (1909.8MHz)						
46.34	-69.67	4.02	-65.65	-13.00	-52.65	H
3819.6	-57.62	4.90	-52.72	-13.00	-39.72	H
5729.4	-44.90	8.09	-36.81	-13.00	-23.81	H
46.34	-58.00	4.25	-53.75	-13.00	-40.75	V
3819.6	-58.74	4.93	-53.81	-13.00	-40.81	V
5729.4	-59.89	8.43	-51.47	-13.00	-38.47	V

For Band 5 Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (826.4MHz)						
46.34	-69.55	3.91	-65.64	-13.00	-52.64	H
1652.8	-53.45	10.56	-42.89	-13.00	-29.89	H
2479.2	-56.73	13.50	-43.23	-13.00	-30.23	H
46.34	-68.74	3.93	-64.81	-13.00	-51.81	V
1652.8	-53.13	10.41	-42.72	-13.00	-29.72	V
2479.2	-56.73	13.16	-43.57	-13.00	-30.57	V
Middle Channel (836.6MHz)						
46.34	-69.62	4.02	-65.60	-13.00	-52.60	H
1672.8	-57.86	4.66	-53.20	-13.00	-40.20	H
2509.2	-44.64	8.34	-36.30	-13.00	-23.30	H
46.34	-57.64	4.17	-53.47	-13.00	-40.47	V
1672.8	-58.44	4.94	-53.49	-13.00	-40.49	V
2509.2	-59.80	8.19	-51.61	-13.00	-38.61	V
High Channel (846.6MHz)						
46.34	-69.61	3.87	-65.74	-13.00	-52.74	H
1693.2	-57.81	4.89	-52.92	-13.00	-39.92	H
2539.8	-44.76	8.42	-36.34	-13.00	-23.34	H
46.34	-57.87	3.95	-53.92	-13.00	-40.92	V
1693.2	-58.76	4.99	-53.77	-13.00	-40.77	V
2539.8	-59.55	8.12	-51.44	-13.00	-38.44	V

For Band 2 Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (1852.4MHz)						
46.34	-69.40	4.22	-65.18	-13.00	-52.18	H
3704.8	-53.77	10.70	-43.07	-13.00	-30.07	H
5557.2	-56.61	13.73	-42.87	-13.00	-29.87	H
46.34	-68.65	3.93	-64.72	-13.00	-51.72	V
3704.8	-53.22	10.09	-43.14	-13.00	-30.14	V
5557.2	-56.42	13.11	-43.31	-13.00	-30.31	V
Middle Channel (1880MHz)						
46.34	-69.48	4.26	-65.22	-13.00	-52.22	H
3760.8	-57.79	4.76	-53.03	-13.00	-40.03	H
5640.0	-44.66	8.37	-36.29	-13.00	-23.29	H
46.34	-57.67	3.96	-53.72	-13.00	-40.72	V
3760.8	-58.34	4.63	-53.71	-13.00	-40.71	V
5640.0	-59.79	8.10	-51.69	-13.00	-38.69	V
High Channel (1907.6MHz)						
46.34	-69.48	4.26	-65.22	-13.00	-52.22	H
3815.2	-57.79	4.76	-53.03	-13.00	-40.03	H
5722.8	-44.66	8.37	-36.29	-13.00	-23.29	H
46.34	-57.67	3.96	-53.72	-13.00	-40.72	V
3815.2	-58.34	4.63	-53.71	-13.00	-40.71	V
5722.8	-59.79	8.10	-51.69	-13.00	-38.69	V

Note: Result=Reading+ Correct, Margin= Result- Limit

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

11. FREQUENCY STABILITY

11.1 Standard Applicable

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 Cellular Band

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

According to §27.54 The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

11.2 Test Procedure

According to §2.1055, the following test procedure was performed.

The Frequency Stability is measured directly with a Frequency Domain Analyzer. Frequency Deviation in ppm is calculated from the measured peak to peak value.

The Carrier Frequency Stability over Power Supply Voltage and over Temperature is measured with a Frequency Domain Analyzer in histogram mode

11.3 Environmental Conditions

Temperature:	26°C
Relative Humidity:	54%
ATM Pressure:	101kPa

11.4 Summary of Test Results/Plots

For Cellular Band GPRS Mode

Reference Frequency(Middle Channel): 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	9.27	0.0111
40	NV	9.7	0.0116
30	NV	9.9	0.0119
20	NV	10.0	0.0120
10	NV	10.5	0.0125
0	NV	10.8	0.0129
-10	NV	10.8	0.0129
-20	NV	11.2	0.0134
-30	NV	11.4	0.0136

For PCS Band GPRS Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	12.95	0.0069
40	NV	13.2	0.0070
30	NV	13.2	0.0070
20	NV	13.3	0.0071
10	NV	13.7	0.0073
0	NV	14.1	0.0075
-10	NV	14.5	0.0077
-20	NV	14.6	0.0078
-30	NV	14.9	0.0079

For Cellular Band EDGE Mode

Reference Frequency(Middle Channel): 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	11.56	0.0138
40	NV	12.0	0.0143
30	NV	12.1	0.0144
20	NV	12.2	0.0146
10	NV	12.3	0.0147
0	NV	12.3	0.0148
-10	NV	12.6	0.0150
-20	NV	13.0	0.0155
-30	NV	13.4	0.0160

For PCS Band EDGE Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	-9.81	-0.0052
40	NV	-9.3	-0.0050
30	NV	-9.2	-0.0049
20	NV	-8.8	-0.0047
10	NV	-8.4	-0.0045
0	NV	-8.3	-0.0044
-10	NV	-8.1	-0.0043
-20	NV	-7.7	-0.0041
-30	NV	-7.5	-0.0040

For WCDMA Band 5 Mode

Reference Frequency(Middle Channel): 836.6 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	0.44	0.0005
40	NV	0.6	0.0007
30	NV	0.9	0.0011
20	NV	1.2	0.0015
10	NV	1.3	0.0016
0	NV	1.4	0.0017
-10	NV	1.4	0.0017
-20	NV	1.5	0.0018
-30	NV	1.6	0.0020

For WCDMA Band 2 Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	0.39	0.0002
40	NV	0.4	0.0002
30	NV	0.7	0.0004
20	NV	0.9	0.0005
10	NV	1.3	0.0007
0	NV	1.4	0.0007
-10	NV	1.9	0.0010
-20	NV	2.2	0.0012
-30	NV	2.7	0.0014

For HSDPA Band 5 Mode

Reference Frequency(Middle Channel): 836.6 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	0.34	0.0004
40	NV	0.4	0.0005
30	NV	0.8	0.0009
20	NV	0.9	0.0011
10	NV	1.3	0.0015
0	NV	1.4	0.0017
-10	NV	1.5	0.0018
-20	NV	2.0	0.0023
-30	NV	2.2	0.0027

For HSDPA Band 2 Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	5.33	0.0028
40	NV	5.3	0.0028
30	NV	5.8	0.0031
20	NV	6.3	0.0033
10	NV	6.5	0.0035
0	NV	6.9	0.0037
-10	NV	7.1	0.0038
-20	NV	7.3	0.0039
-30	NV	7.4	0.0039

For HSUPA Band 5 Mode

Reference Frequency(Middle Channel): 836.6 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	1.02	0.0012
40	NV	1.2	0.0014
30	NV	1.3	0.0015
20	NV	1.4	0.0017
10	NV	1.8	0.0021
0	NV	2.1	0.0025
-10	NV	2.2	0.0027
-20	NV	2.6	0.0031
-30	NV	2.9	0.0035

For HSUPA Band 2 Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		MCF (Hz)	Error (ppm)
50	NV	6.88	0.0037
40	NV	7.2	0.0038
30	NV	7.5	0.0040
20	NV	7.8	0.0042
10	NV	8.1	0.0043
0	NV	8.5	0.0045
-10	NV	8.7	0.0046
-20	NV	9.0	0.0048
-30	NV	9.4	0.0050

So, Frequency Stability Versus Input Voltage is:

Reference Frequency(Middle Channel): GPRS 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	11.4	0.0136
	NV	11.8	0.0141
	HV	12.1	0.0144
Reference Frequency(Middle Channel): GPRS 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	15.2	0.0079
	NV	15.2	0.0081
	HV	15.2	0.0081

Reference Frequency(Middle Channel): EDGE 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	13.4	0.0160
	NV	13.4	0.0160
	HV	13.9	0.0166
Reference Frequency(Middle Channel): EDGE 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	-7.5	-0.0040
	NV	-7.1	-0.0038
	HV	-6.8	-0.0036
Reference Frequency(Middle Channel): WCDMA 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	1.6	0.0019
	NV	2.0	0.0024
	HV	2.1	0.0025
Reference Frequency(Middle Channel): WCDMA 1732.4MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	1.69	0.0009
	NV	1.27	0.0007
	HV	1.83	0.0001
Reference Frequency(Middle Channel): WCDMA 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	2.7	0.0014
	NV	3.0	0.0016
	HV	3.4	0.0018

Reference Frequency(Middle Channel): HSDPA 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	2.2	0.0026
	NV	2.4	0.0029
	HV	2.6	0.0031
Reference Frequency(Middle Channel): HSDPA 1732.4MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	6.61	0.004441
	NV	6.8	0.004716
	HV	7.2	0.004822
Reference Frequency(Middle Channel): HSDPA 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	7.4	0.0039
	NV	7.5	0.0040
	HV	7.7	0.0041
Reference Frequency(Middle Channel): HSUPA 836.6MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	2.9	0.0035
	NV	3.4	0.0040
	HV	3.6	0.0043
Reference Frequency(Middle Channel): HSUPA 1732.4MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	6.0	0.00421
	NV	6.4	0.004477
	HV	6.8	0.004537

Reference Frequency(Middle Channel): HSUPA 1880 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed	
		Frequency (Hz)	Error (ppm)
20	LV	9.4	0.0050
	NV	9.6	0.0051
	HV	9.9	0.0053

12. EUT PHOTO

EUT Photo 1

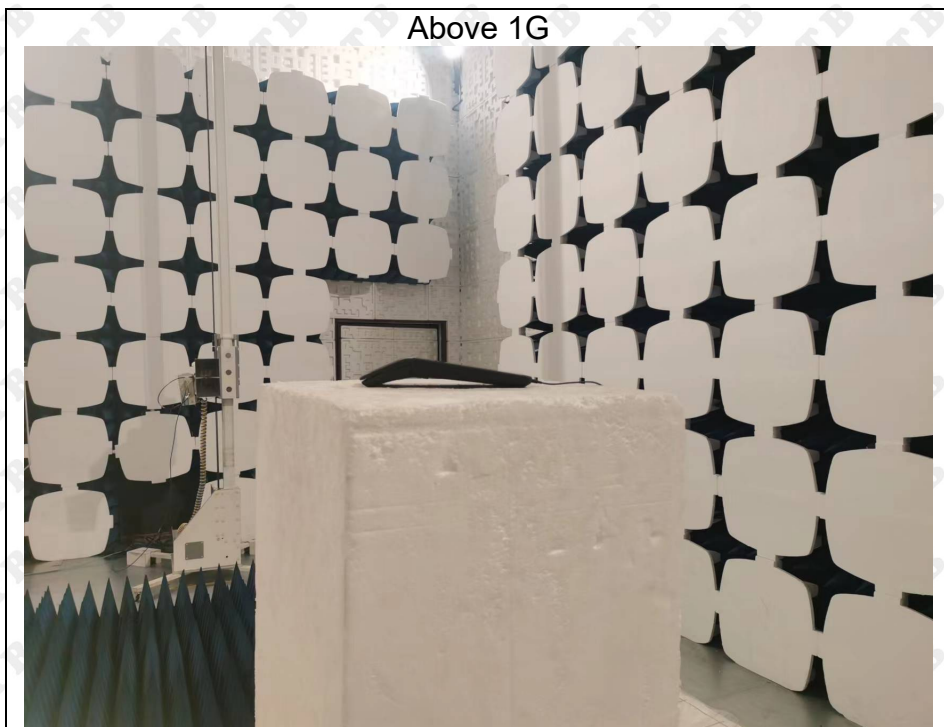


EUT Photo 2



13. EUT TEST PHOTO

Radiated Emission



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