

TEST REPORT

Report No.: BCTC2311438541-1E

Applicant: Shenzhen Swage Electronics Co.,Ltd.

Product Name: Smart watch

Test Model: X6

Tested Date: 2023-11-20 to 2023-11-29

Issued Date: 2023-11-29

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AVHS-X6

Product Name: Smart watch

Trademark: N/A

Model/Type reference: X6
i8Promax, i9pro Max, D20, D20Plus, D20Max, D20 Pro, D20L, X8, X8 Pro, S10, S12, W26, W26Plus, DT1000, P80, KW66, KW132

Prepared For: Shenzhen Swage Electronics Co.,Ltd.

Address: No.4 Floor, Tongxin Industrial Park, HengGang town Longgang District, Shenzhen, China

Manufacturer: Shenzhen Swage Electronics Co.,Ltd.

Address: No.4 Floor, Tongxin Industrial Park, HengGang town Longgang District, Shenzhen, China

Prepared By: Shenzhen BCTC Testing Co., Ltd.

Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Sample Received Date: 2023-11-20

Sample tested Date: 2023-11-20 to 2023-11-29

Issue Date: 2023-11-29

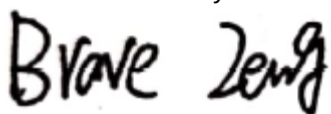
Report No.: BCTC2311438541-1E

Test Standards: FCC CFR Title 47 Part 2
FCC CFR Title 47 Part22 Subpart H
FCC CFR Title 47 Part24 Subpart E
ANSI/ TIA/ EIA-603-D-2010
FCC KDB 971168 D01 Power Meas. License Digital Systems v02v02

Test Results: PASS

Remark: This is GSM radio test report.

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2311438541-1E	2023-11-29	Original	Valid

2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No.	Results
1	RF Exposure	§1.1307, §2.1093	PASS
2	RF Output Power	§22.913 (a), §24.232 (c)	PASS
3	Peak-to-average Ratio(PAR) of Transmitter	§24.232(d), §22.913	PASS
4	Emission Bandwidth	§22.917 (b), §24.238(b)	PASS
5	Spurious Emissions at Antenna Terminal	§22.917 (a), §24.238 (a)	PASS
6	Spurious Radiation Emissions	§22.917 (a), §24.238 (a)	PASS
7	Out of Band Emissions	§22.917 (a), §24.238 (a)	PASS
8	Frequency Stability	§22.355, §24.235	PASS

3. Measurement Uncertainty

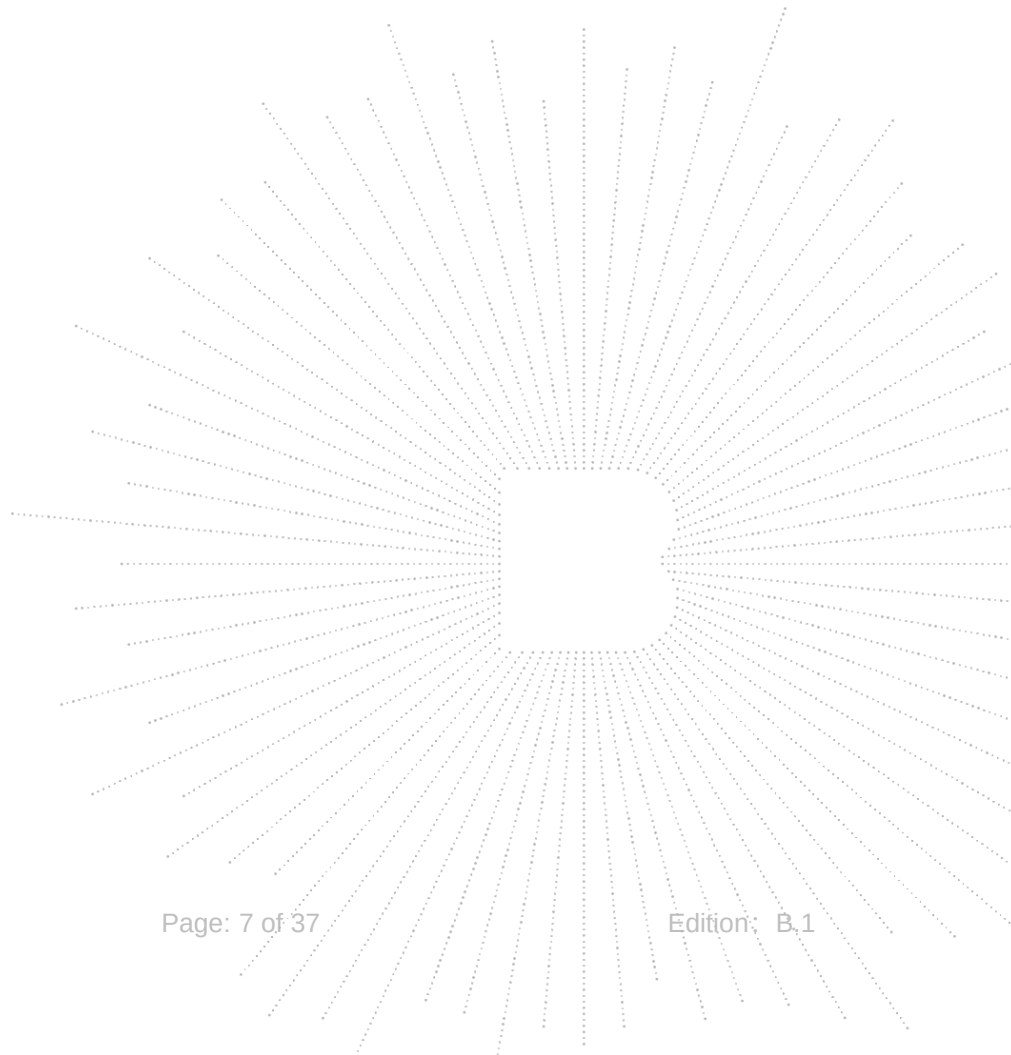
Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(9KHz-30MHz)	U=3.7dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission (150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59°C

4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	X6 i8Promax, i9pro Max, D20, D20Plus, D20Max, D20 Pro, D20L, X8, X8 Pro, S10, S12, W26, W26Plus, DT1000, P80, KW66, KW132
Model differences:	All the model are the same circuit and RF module, except model names and appearance of the color.
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	GSM 850: TX: 824~849MHz; RX: 869~894MHz; GSM: TX:1850~1910MHz; RX:1930~1990MHz;
GPRS Class:	Class 12
Max RF Output Power:	GSM 850: 33.75dBm, GSM 1900: 30.48dBm
Type of Modulation:	GSM with GMSK Modulation
Type of Emission:	GSM 850: 236KGXW GSM 1900: 236KGXW
Antenna installation:	Internal antenna
Antenna Gain:	GSM850: 0 dBi GSM1900: 0 dBi
Connecting I/O Port(s)	Please refer to the User's Manual
Ratings:	DC 5V from adapter/DC 3.7V from battery



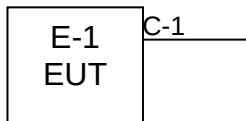
4.2 Test Setup Configuration

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

Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Smart watch	N/A	X6	N/A	EUT
E-2	N/A	N/A	N/A	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0.5M	USB cable unshielded

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.

4.5 Test Mode

Testing Configure			
Support Band	Support Standard	Channel Frequency	Channel Number
GSM 850	GSM	824.2 MHz	128
		836.6 MHz	190
		848.8 MHz	251
PCS 1900	GSM	1850.2 MHz	512
		1880.0 MHz	661
		1909.8 MHz	810

EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
/	/	/	/
/	/	/	/

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
/	/	/	/

Special Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
/	/	/	/

5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

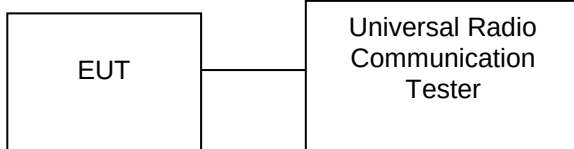
5.2 Test Instrument Used

Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 29, 2023	May 28, 2024
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024
Amplifier	SKET	LAPA_01G18 G-45dB	SK2021040901	May 15, 2023	May 14, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 31, 2023	May 30, 2024
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 15, 2023	May 14, 2024
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 31, 2023	May 30, 2024
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

6. RF Output Power

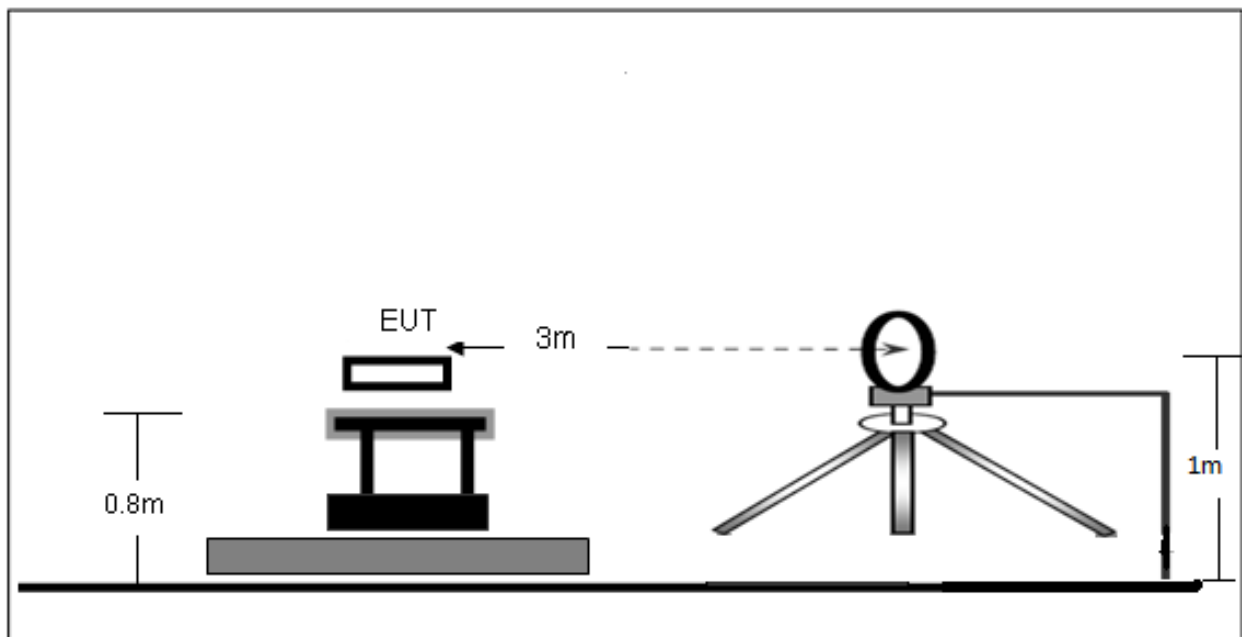
6.1 Block Diagram Of Test Setup

Conducted output power test method:

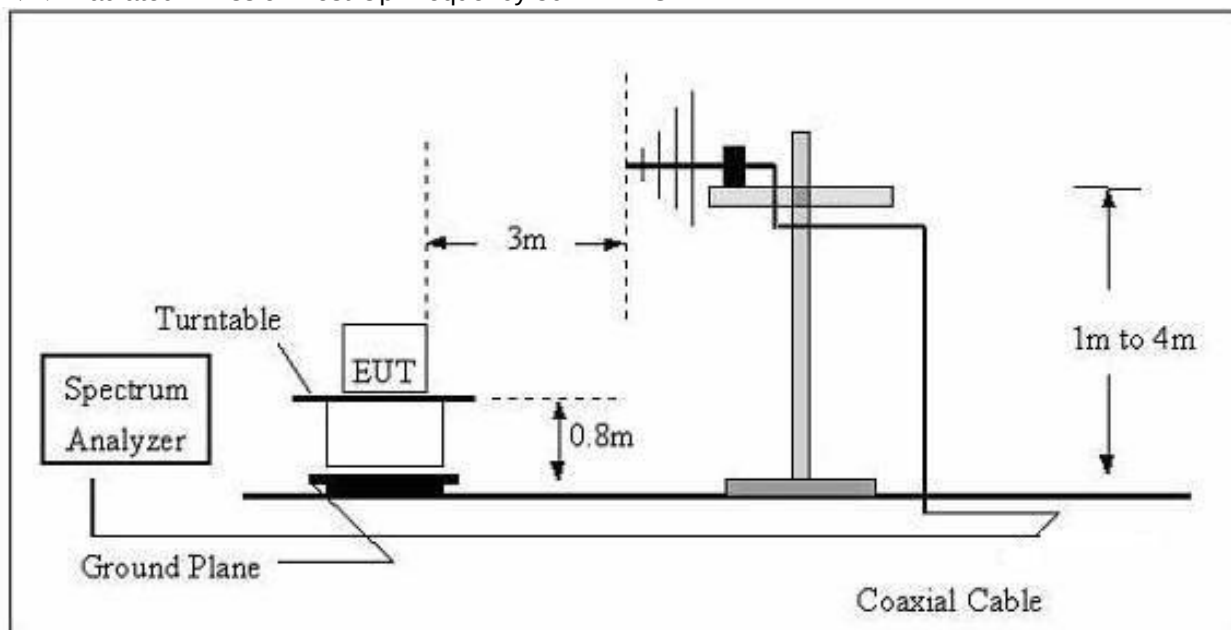


Radiated power test method:

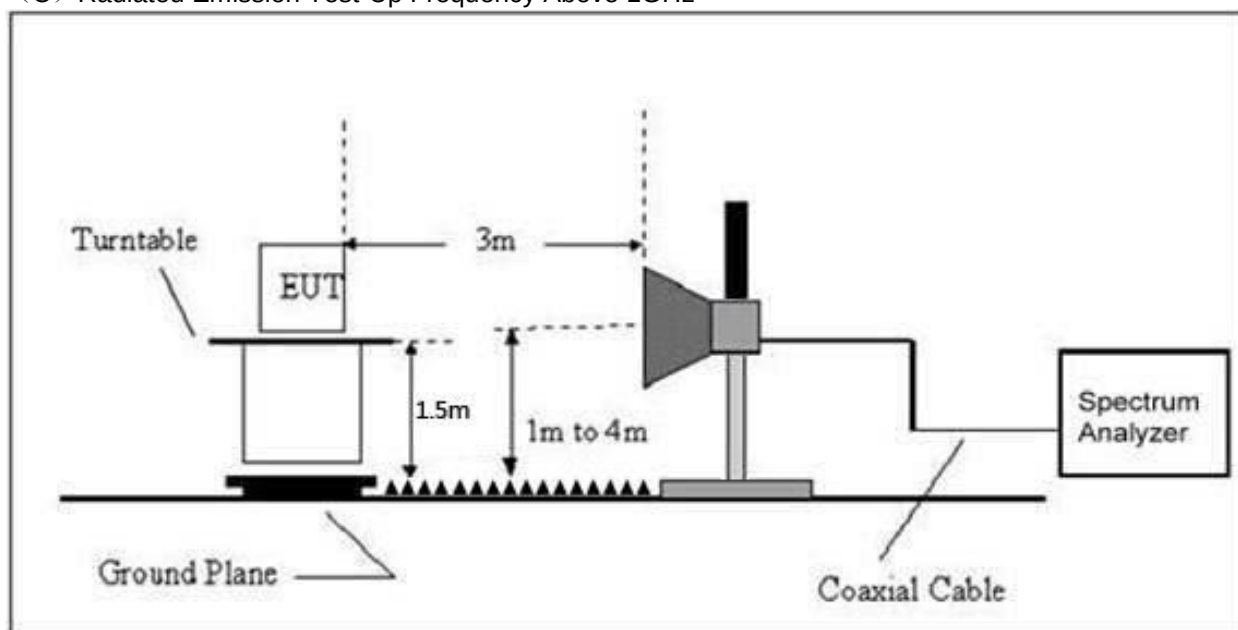
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



6.2 Limit

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.

According to §27.50(d)(4), 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.

6.3 Test procedure

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.

6.4 Test Result

ERP For GSM Mode GSM850

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 22H Limits (dBm)	Result
Low Channel								
824.2	H	1.5	0	54.20	-26.29	27.91	38.45	PASS
824.2	V	1.5	0	53.41	-26.29	27.12	38.45	PASS
Middle Channel								
836.6	H	1.5	0	53.95	-26.35	27.60	38.45	PASS
836.6	V	1.5	0	53.45	-26.35	27.10	38.45	PASS
High Channel								
848.8	H	1.5	0	53.95	-26.42	27.53	38.45	PASS
848.8	V	1.5	0	53.76	-26.42	27.34	38.45	PASS

EIRP For GSM Mode PCS1900

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 24E Limits (dBm)	Result
Low Channel								
1850.2	H	1.5	0	56.23	-26.93	29.30	33.00	PASS
1850.2	V	1.5	0	55.62	-26.93	28.69	33.00	PASS
Middle Channel								
1880	H	1.5	0	55.28	-26.86	28.42	33.00	PASS
1880	V	1.5	0	55.52	-26.86	28.66	33.00	PASS
High Channel								
1909.8	H	1.5	0	56.03	-26.80	29.23	33.00	PASS
1909.8	V	1.5	0	55.34	-26.80	28.54	33.00	PASS

Max. Conducted Output Power

For Cellular Band (GSM850)

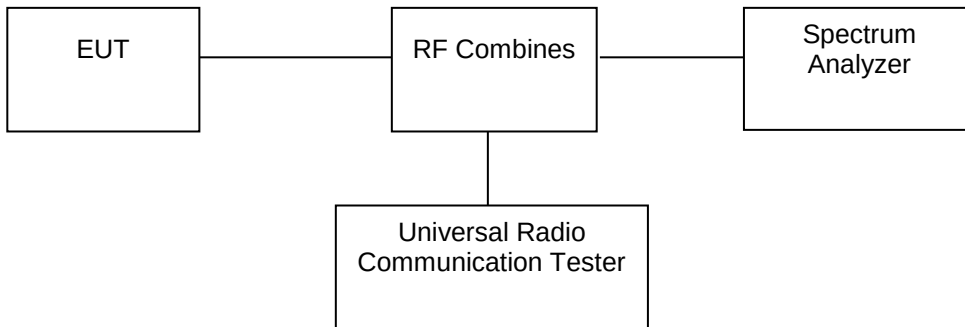
Band	GSM850		
Channel	128	190	251
Frequency(MHz)	824.2	836.6	848.8
GSM	33.75	33.70	33.74

For PCS Band (GSM1900)

Band	GSM1900		
Channel	512	661	810
Frequency(MHz)	1850.2	1880	1909.8
GSM	30.48	30.15	29.96

7. Peak-to-average Ratio(PAR) of Transmitter

7.1 Block Diagram Of Test Setup



7.2 Limit

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.

According to §27.50(B), the peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

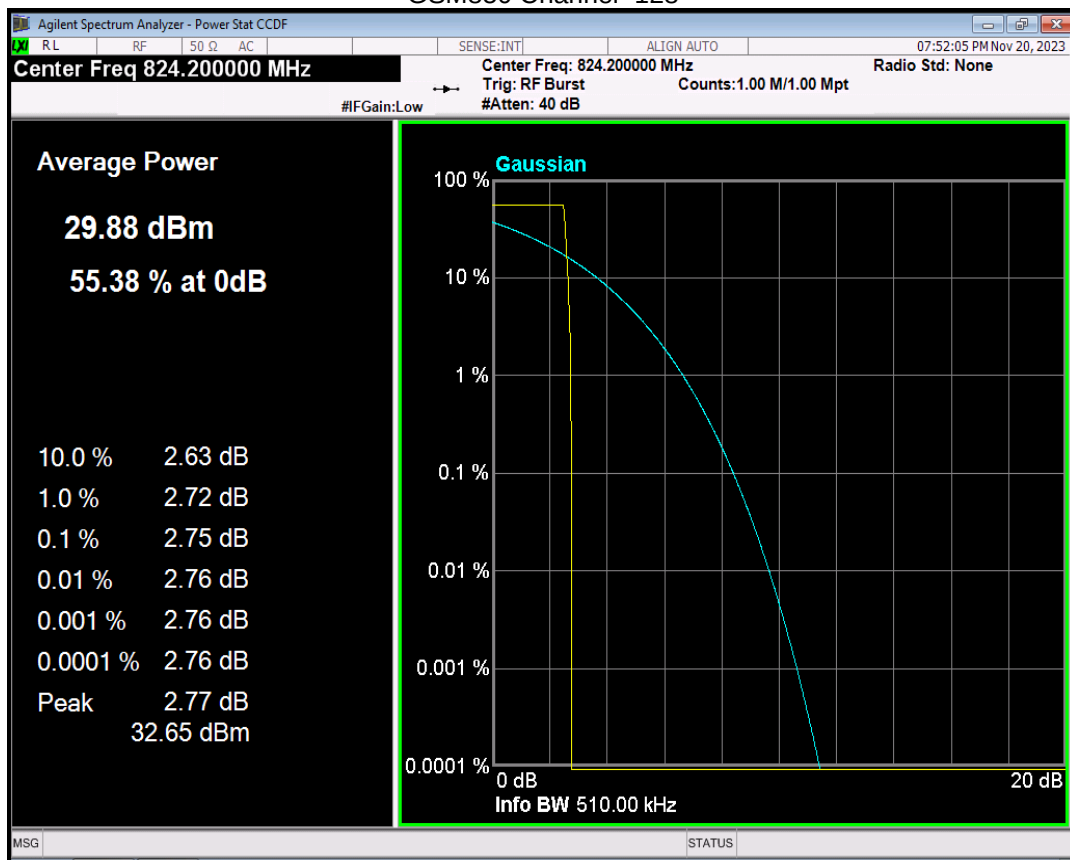
7.3 Test procedure

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%.

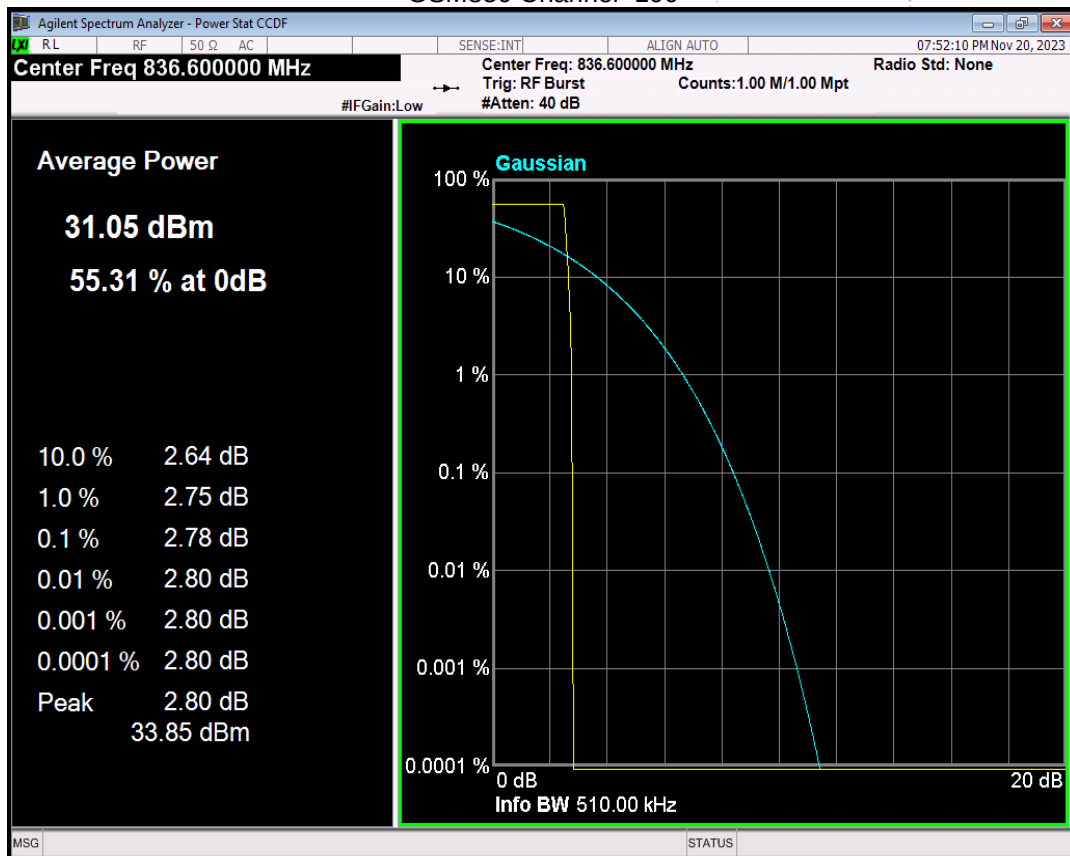
7.4 Test Result

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GSM850	128	824.2	2.75	13.00	PASS
GSM850	190	836.6	2.78	13.00	PASS
GSM850	251	848.8	2.73	13.00	PASS
GSM1900	512	1850.2	2.72	13.00	PASS
GSM1900	661	1880	2.74	13.00	PASS
GSM1900	810	1909.8	2.73	13.00	PASS

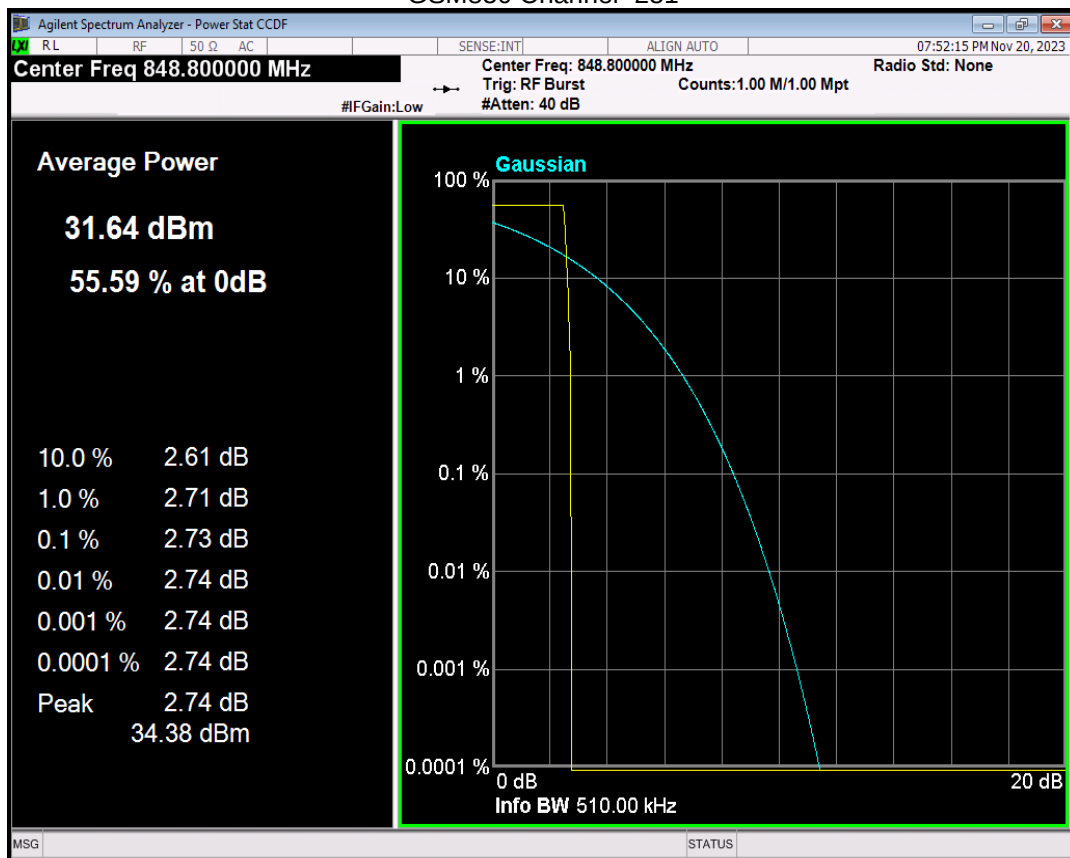
GSM850 Channel=128



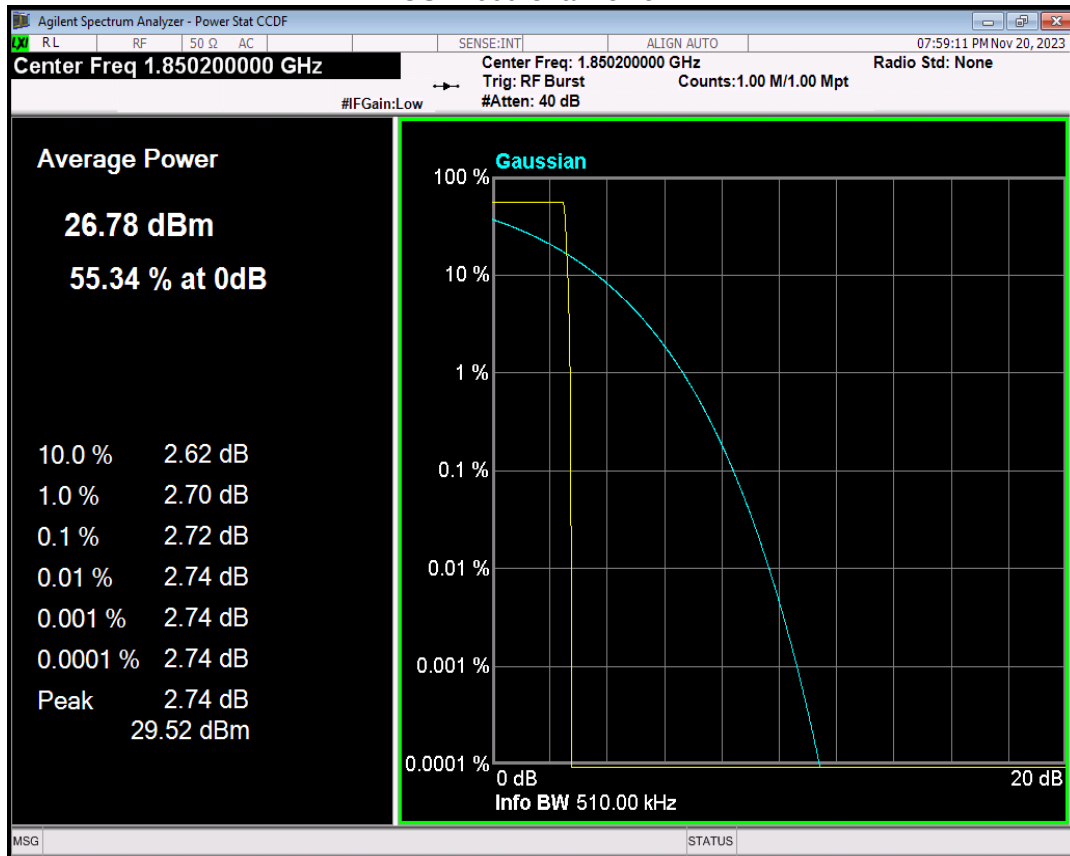
GSM850 Channel=190



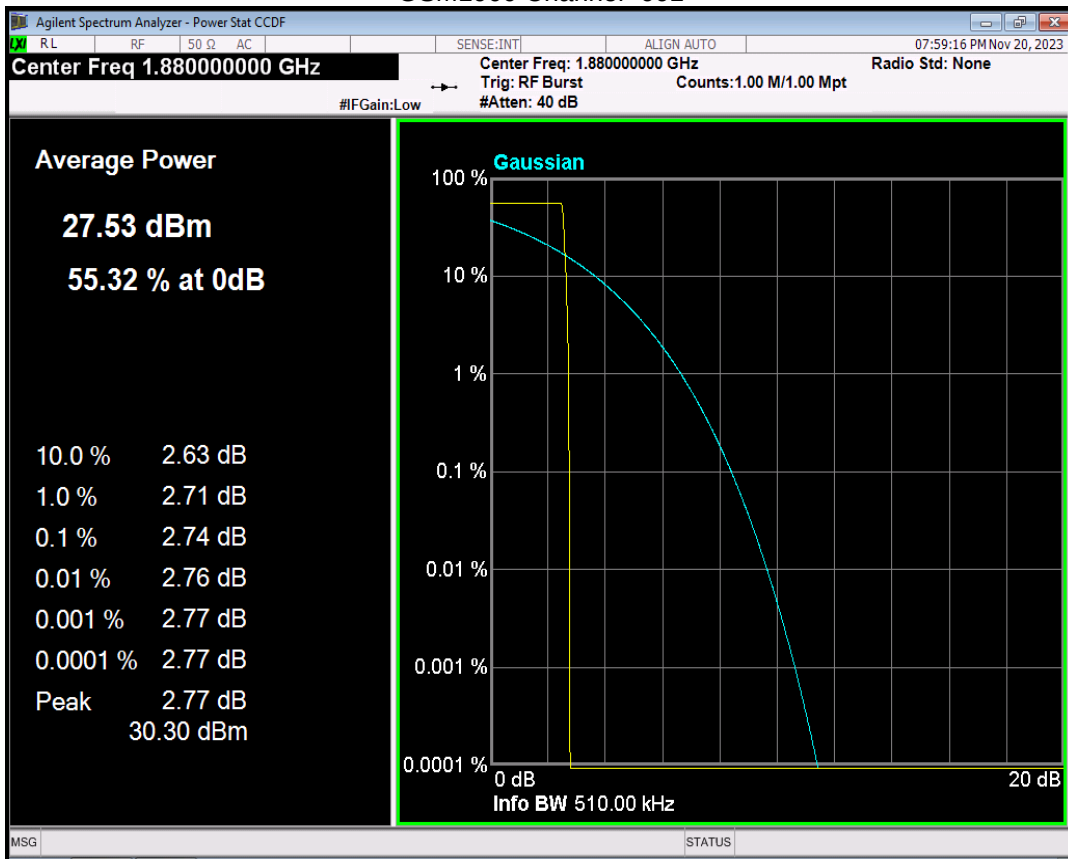
GSM850 Channel=251



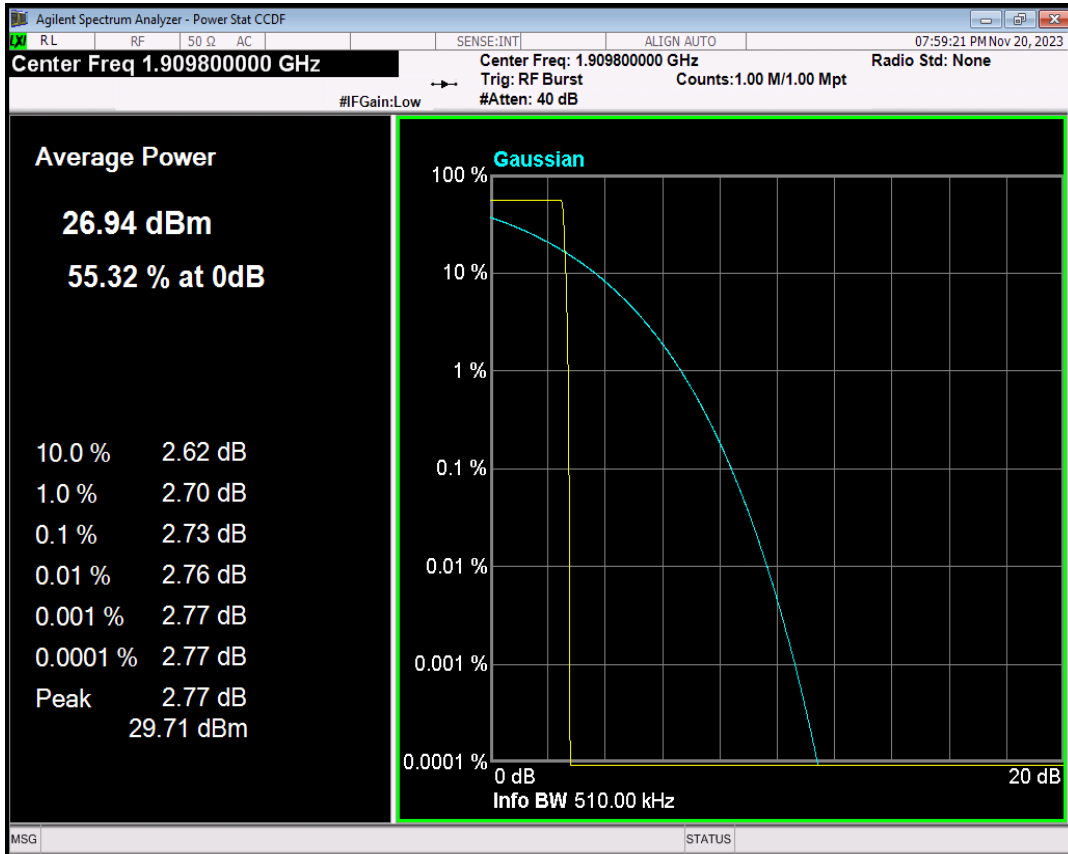
GSM1900 Channel=512



GSM1900 Channel=661

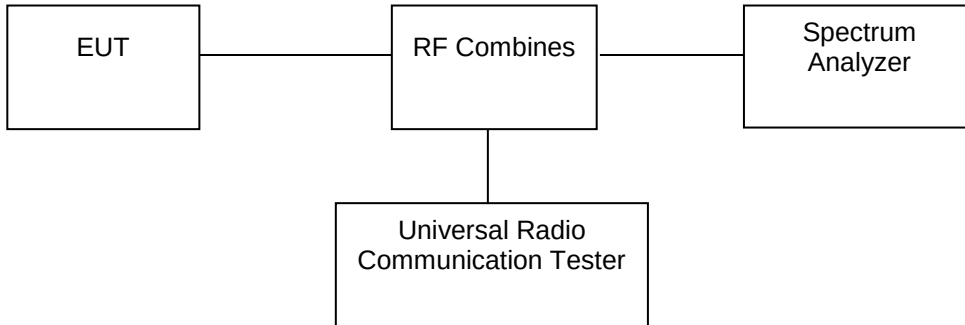


GSM1900 Channel=810



8. Emission Bandwidth

8.1 Block Diagram Of Test Setup



8.2 Limit

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.

According to §27.53, 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.

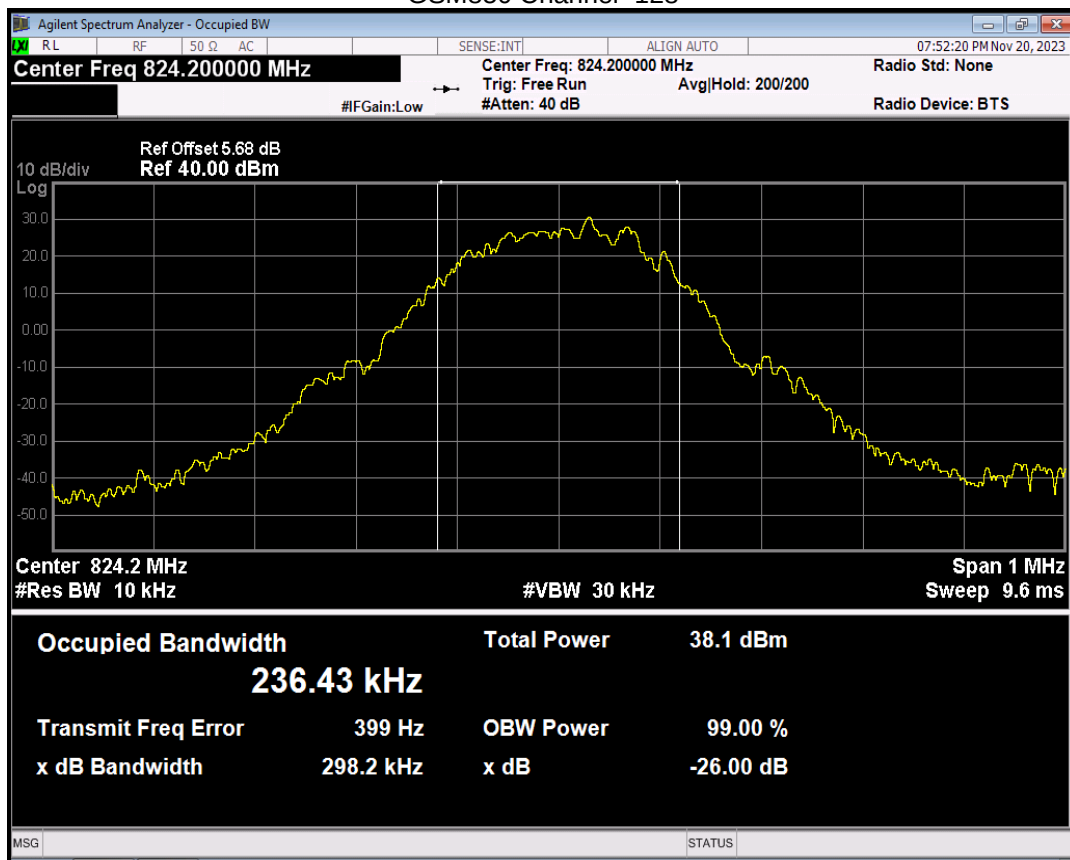
8.3 Test procedure

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.

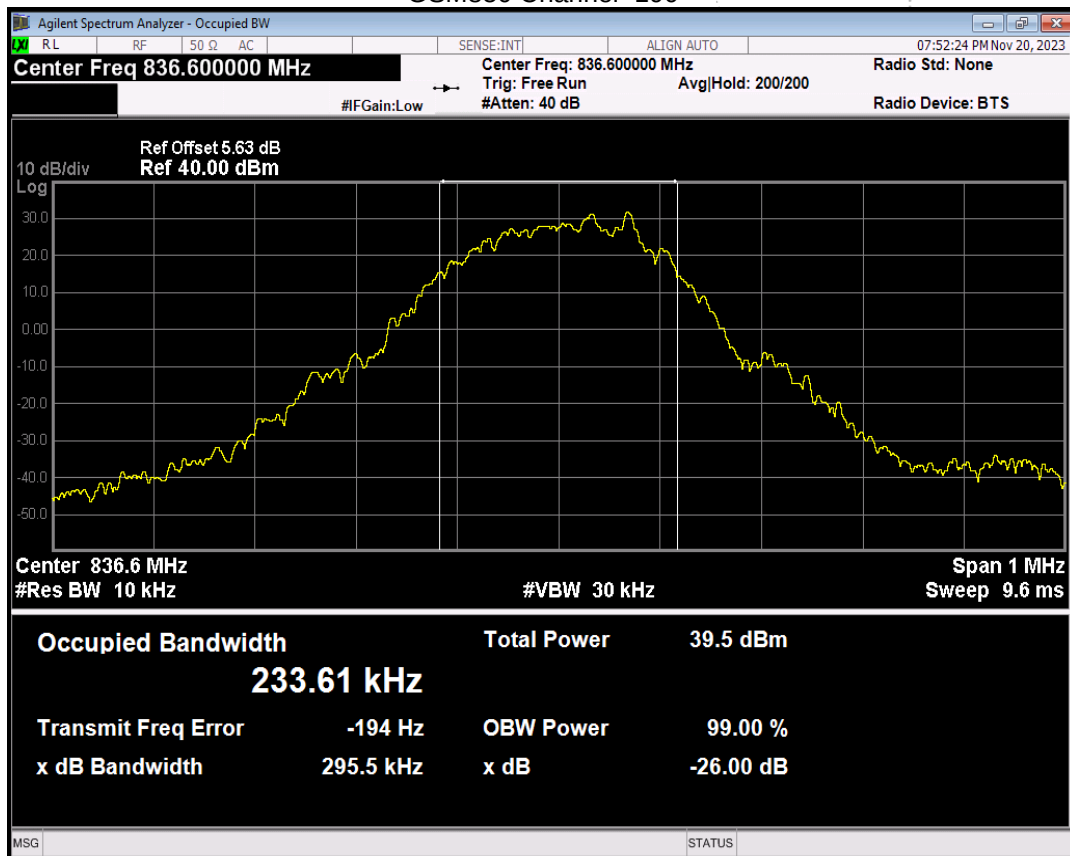
8.4 Test Result

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM850	128	824.2	236.431	298.190	PASS
GSM850	190	836.6	233.612	295.489	PASS
GSM850	251	848.8	230.859	297.642	PASS
GSM1900	512	1850.2	230.377	293.903	PASS
GSM1900	661	1880	233.651	295.579	PASS
GSM1900	810	1909.8	235.515	304.423	PASS

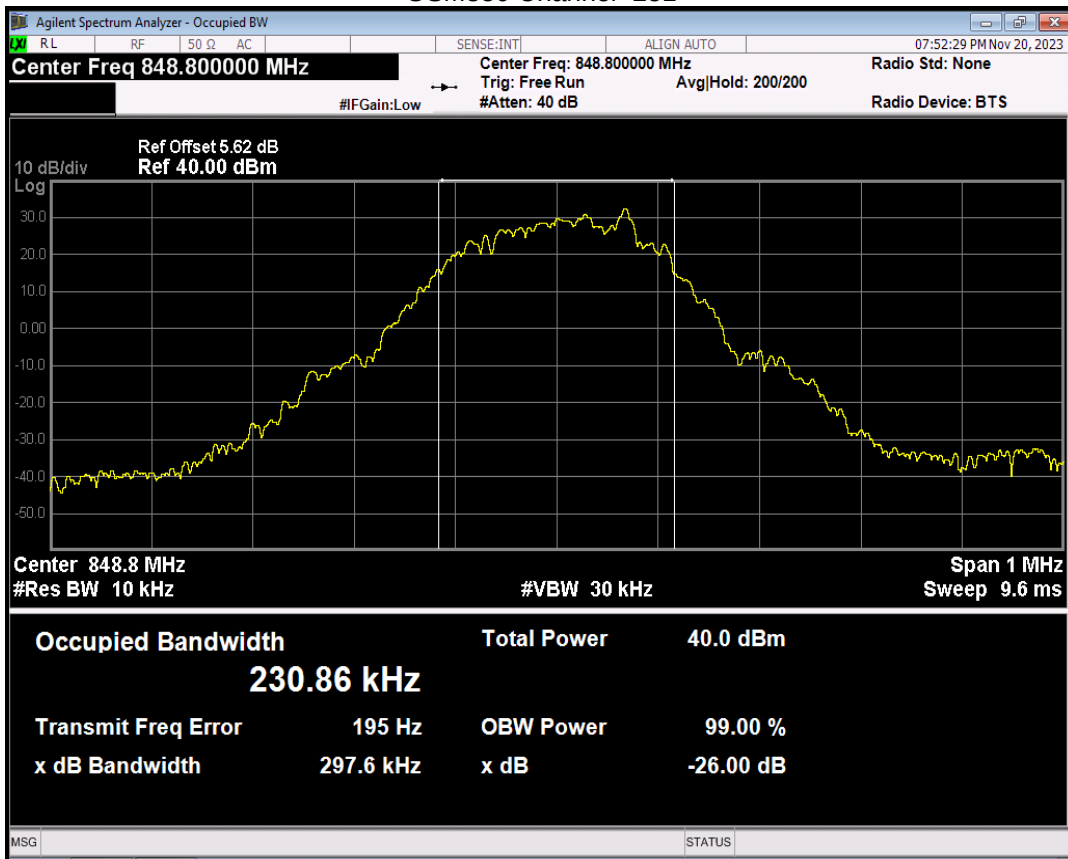
GSM850 Channel=128



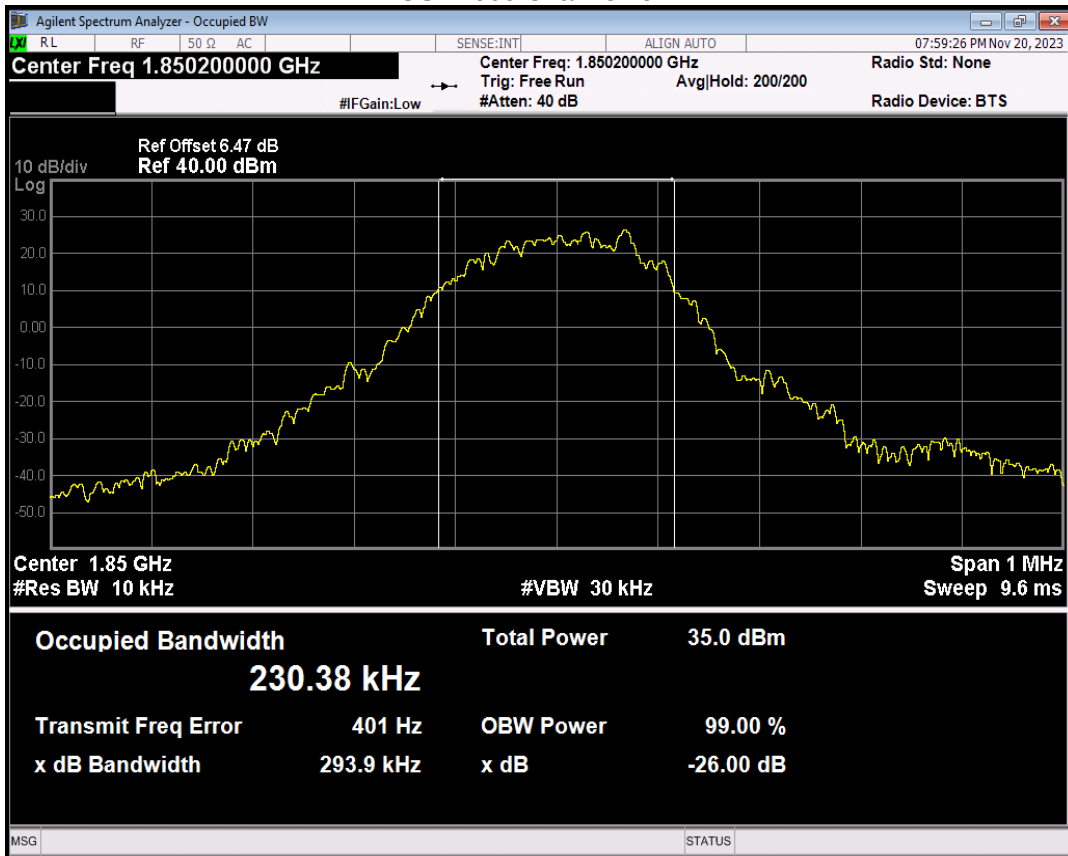
GSM850 Channel=190



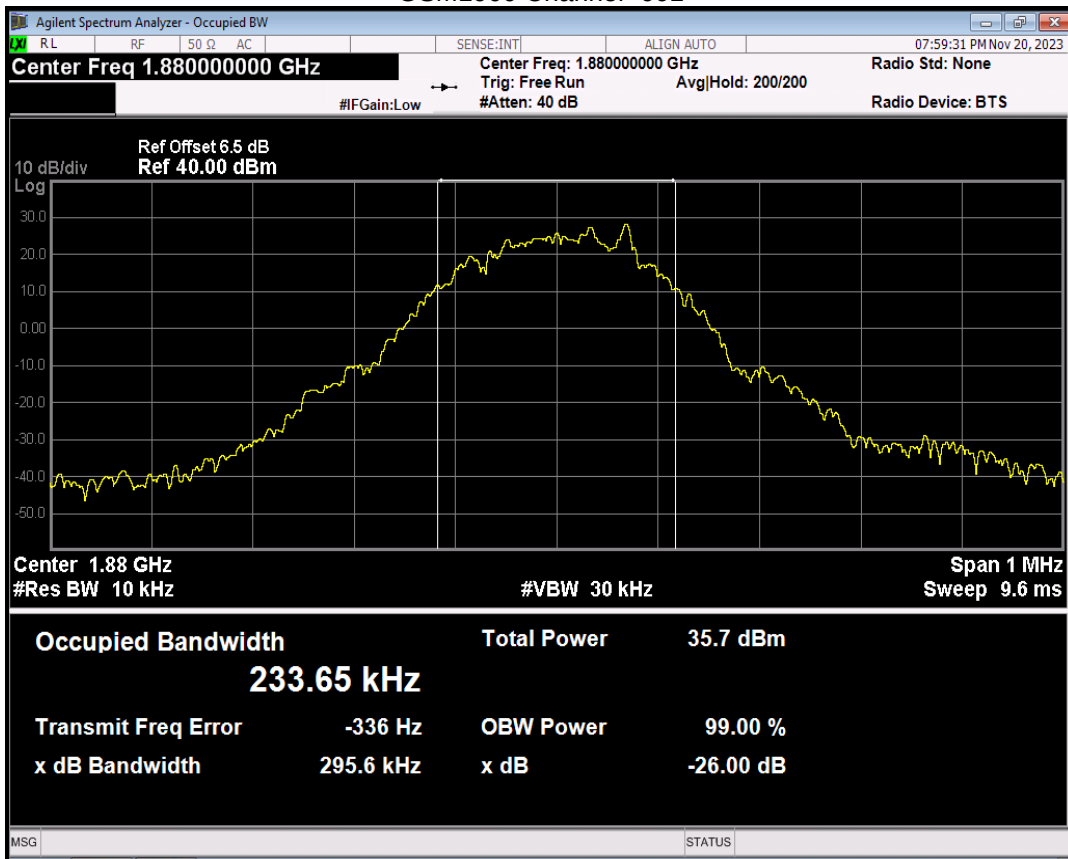
GSM850 Channel=251



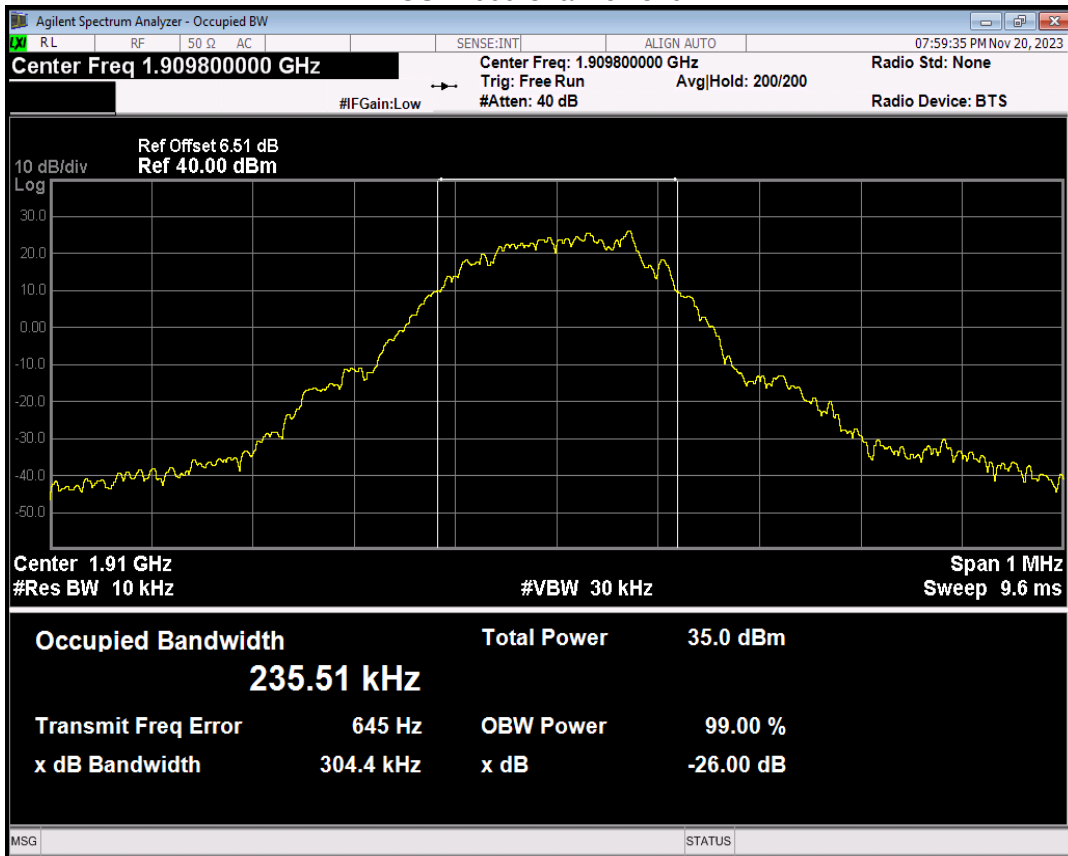
GSM1900 Channel=512



GSM1900 Channel=661

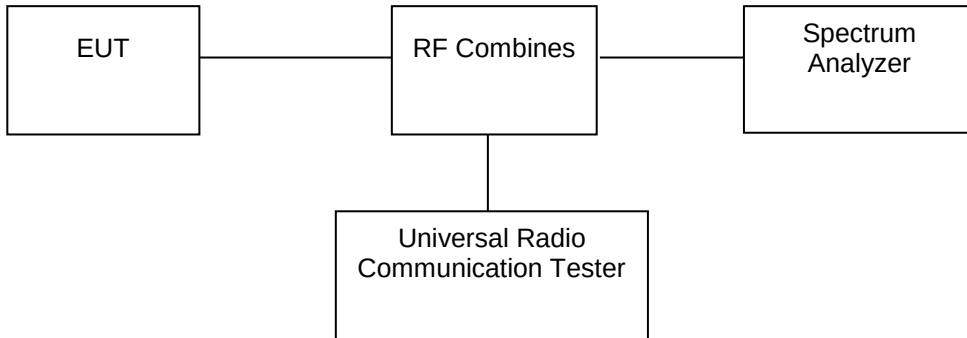


GSM1900 Channel=810



9. Out of Band Emissions at Antenna Terminal

9.1 Block Diagram Of Test Setup



9.2 Limit

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.

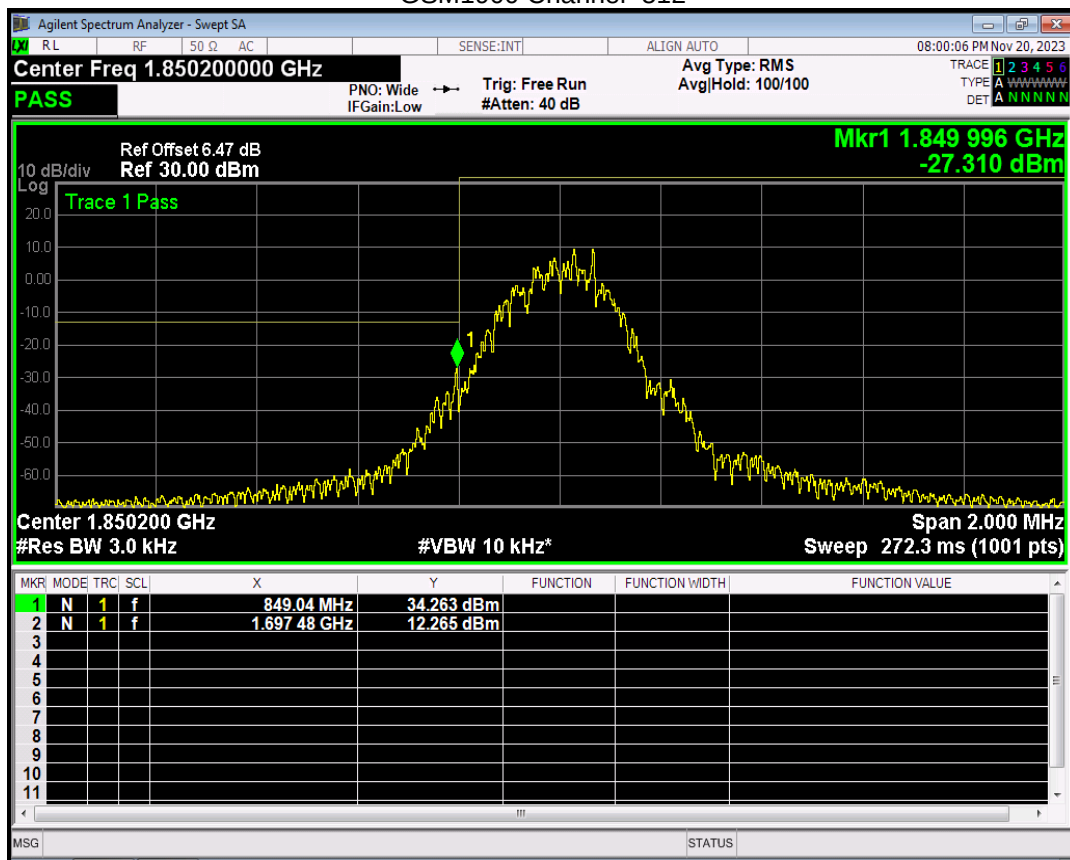
According to §27.53 (h), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

9.3 Test procedure

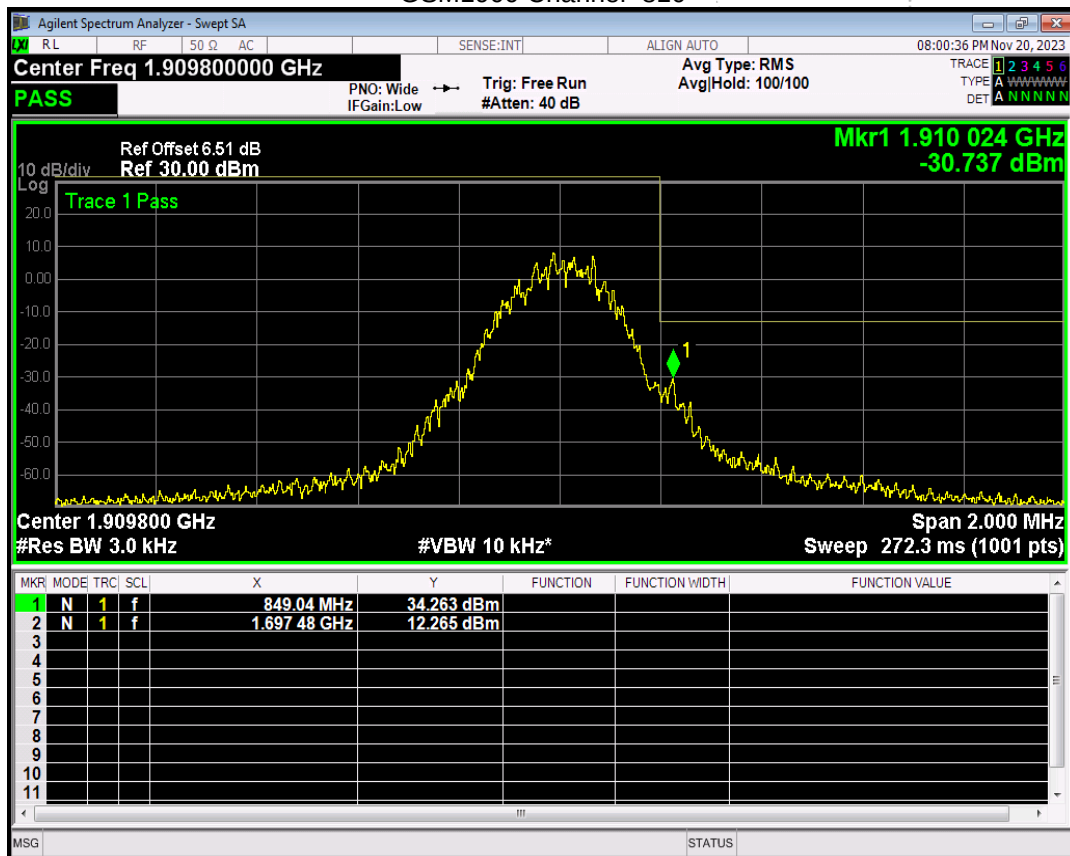
The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 100kHz and 1MHz for the scan frequency from 30MHz to 1GHz and the scan frequency from 1GHz to up to 10th harmonic

9.4 Test Result

GSM1900 Channel=512



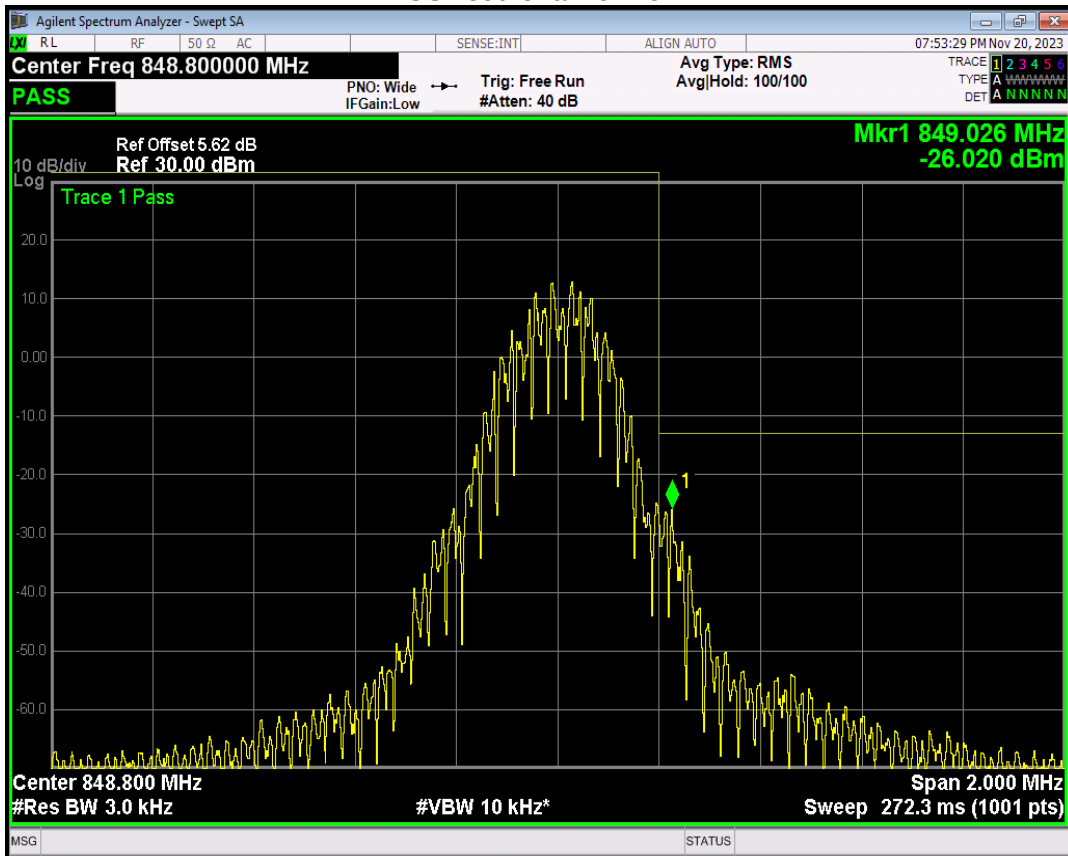
GSM1900 Channel=810



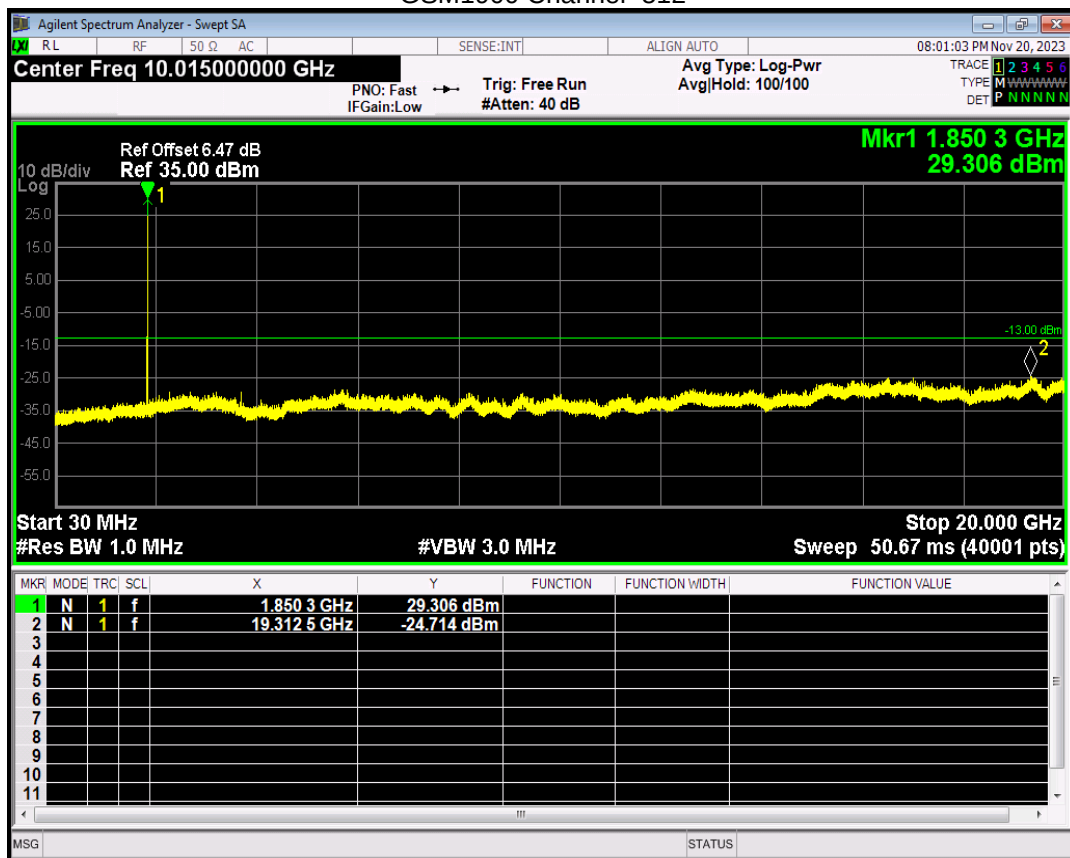
GSM850 Channel=128



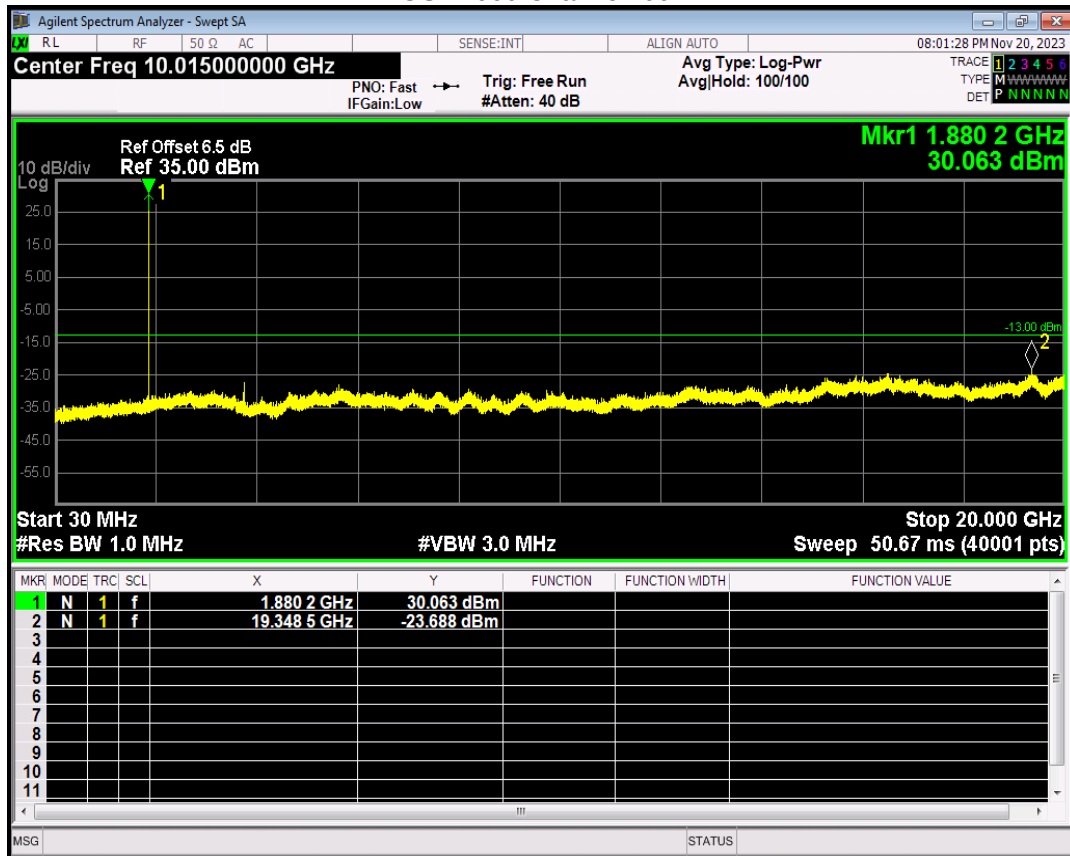
GSM850 Channel=251



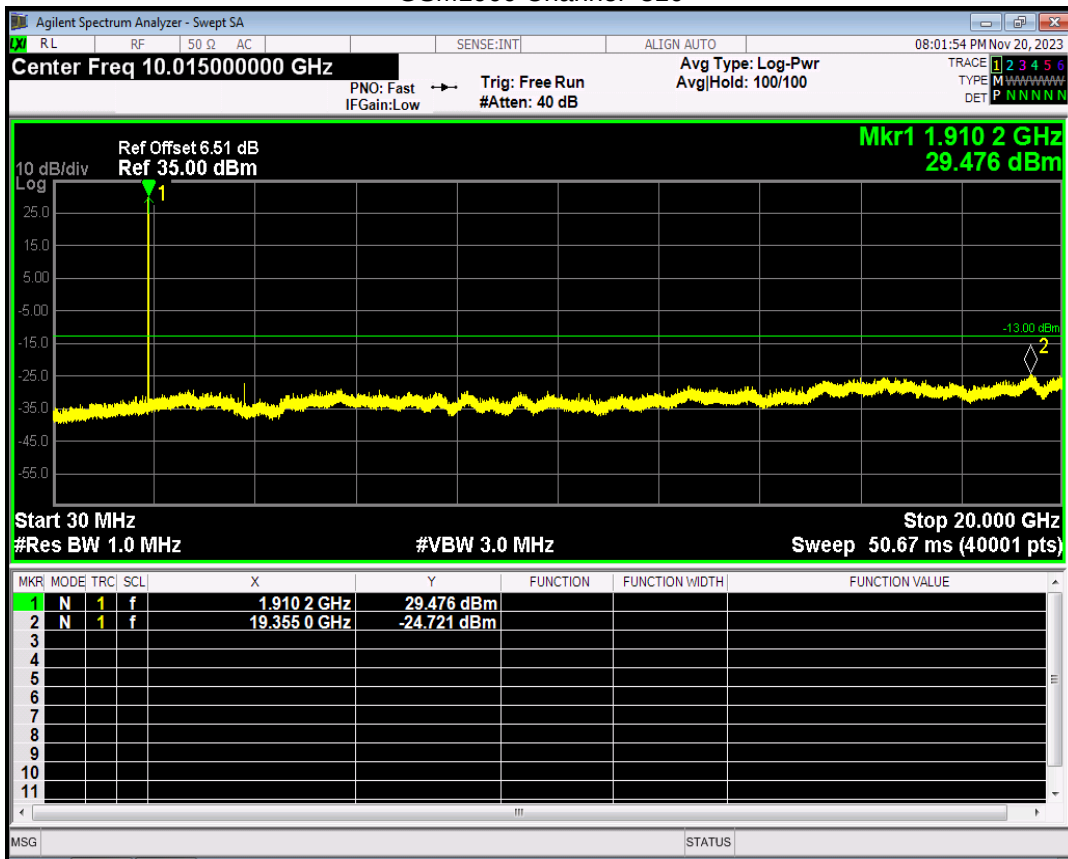
GSM1900 Channel=512



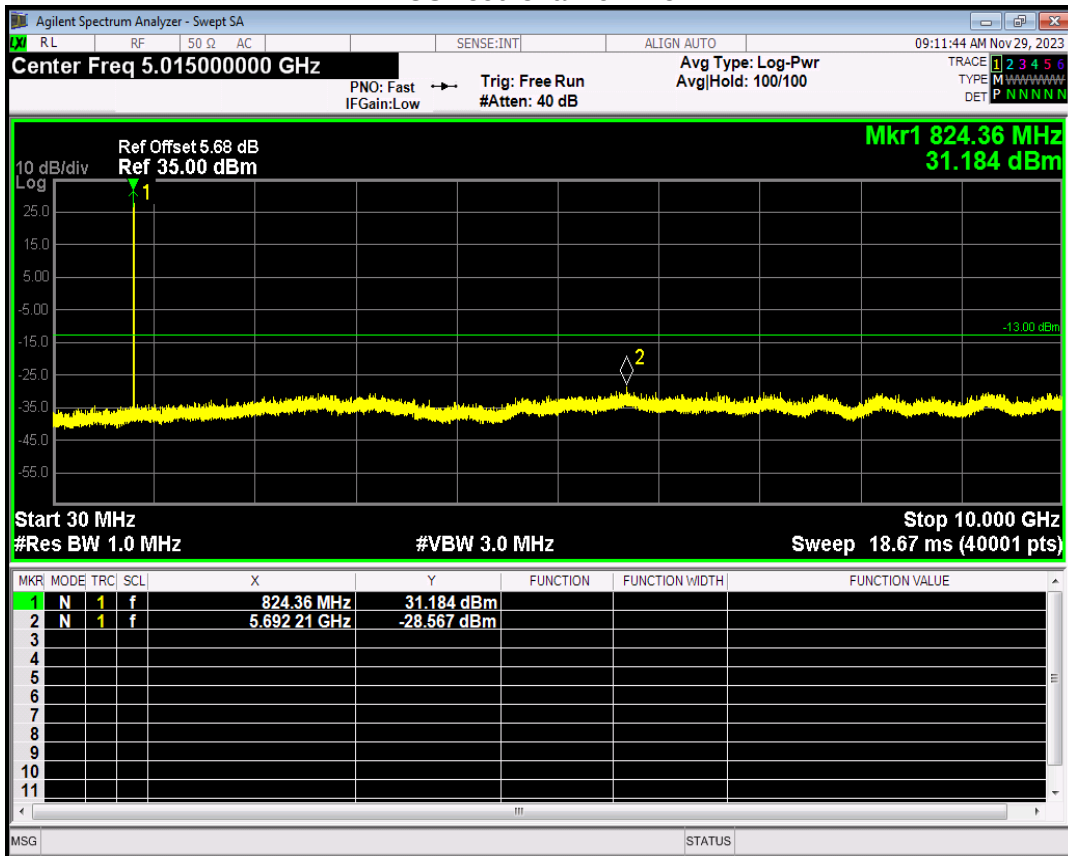
GSM1900 Channel=661



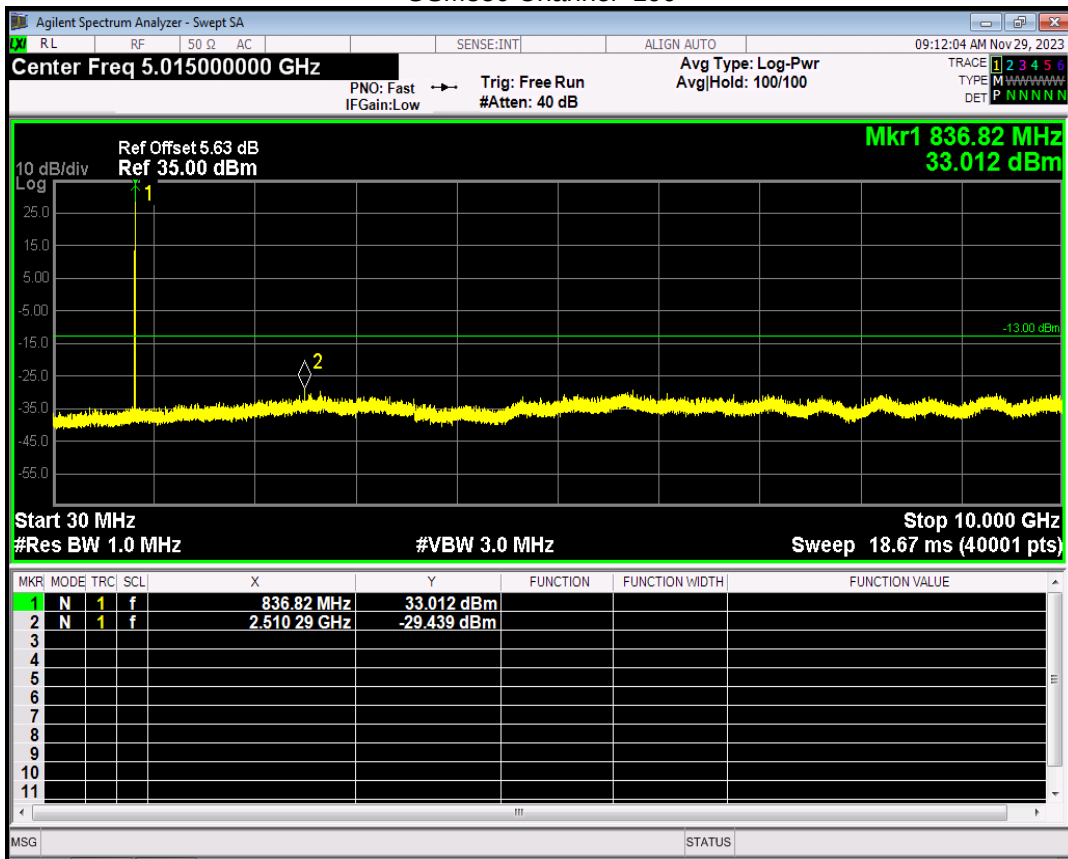
GSM1900 Channel=810



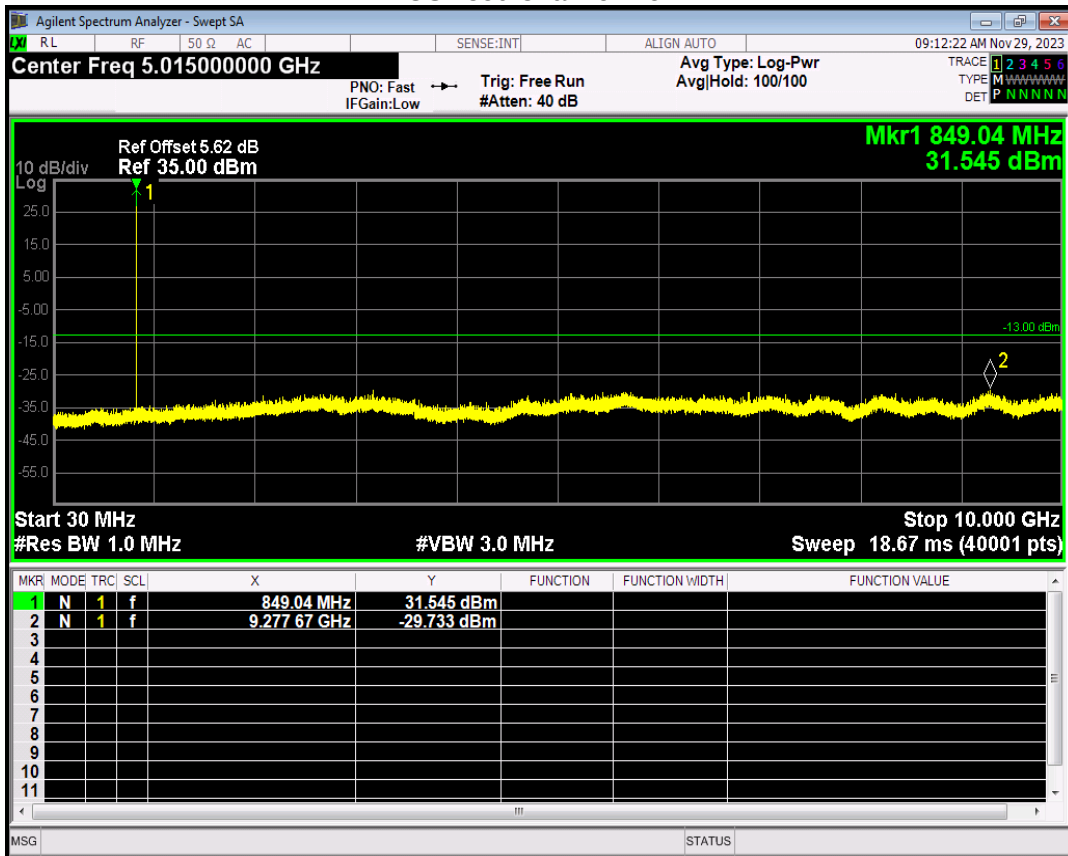
GSM850 Channel=128



GSM850 Channel=190



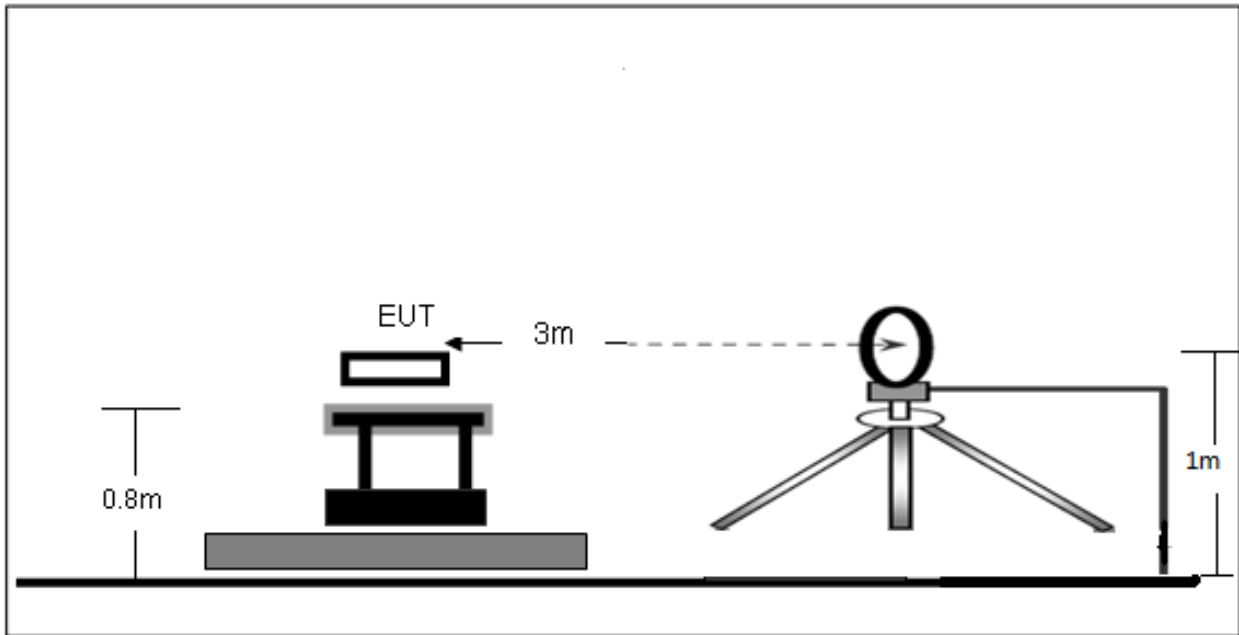
GSM850 Channel=251



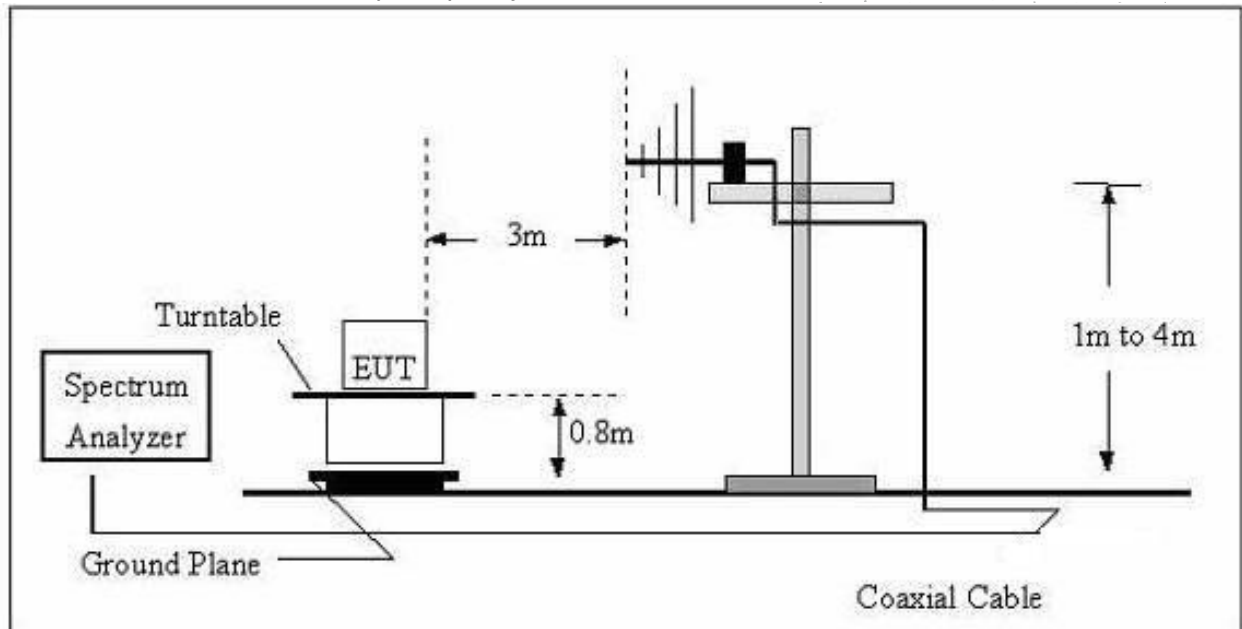
10. Spurious Radiated Emissions

10.1 Block Diagram Of Test Setup

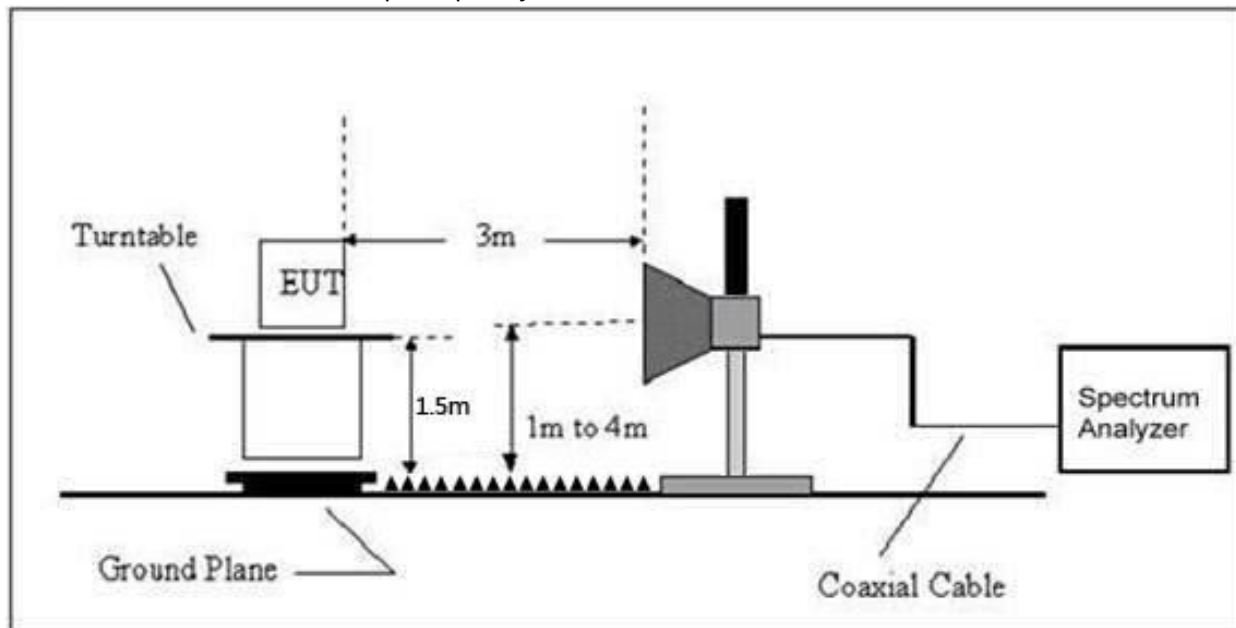
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



10.2 Limit

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 §27.53 (h), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

10.3 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 = $43 + 10 \log_{10}(\text{power out in Watts})$

10.4 Test Result

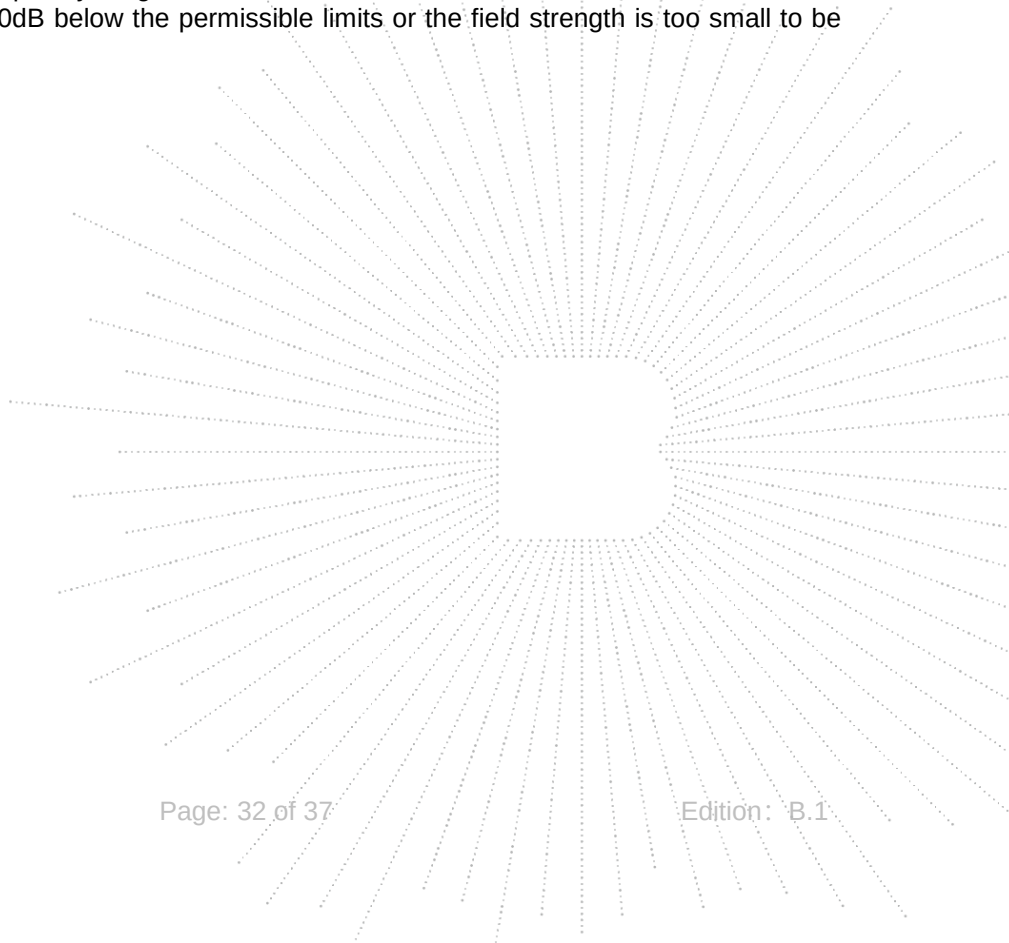
For Cellular Band GSM850 Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (824.2MHz)						
66.98	-24.85	-30.38	-55.23	-13.00	-42.23	H
1648.40	-21.41	-27.29	-48.70	-13.00	-35.70	H
2472.60	-24.67	-25.18	-49.85	-13.00	-36.85	H
66.98	-31.77	-30.38	-62.15	-13.00	-49.15	V
1648.40	-18.92	-27.29	-46.21	-13.00	-33.21	V
2472.60	-23.03	-25.18	-48.21	-13.00	-35.21	V
Middle Channel (836.6MHz)						
66.98	-30.13	-30.38	-60.51	-13.00	-47.51	H
1673.20	-20.35	-27.32	-47.67	-13.00	-34.67	H
2509.80	-24.62	-25.07	-49.69	-13.00	-36.69	H
66.98	-41.25	-30.38	-71.63	-13.00	-58.63	V
1673.20	-20.31	-27.32	-47.63	-13.00	-34.63	V
2509.80	-26.21	-25.07	-51.28	-13.00	-38.28	V
High Channel (848.8MHz)						
66.98	-44.71	-30.38	-75.09	-13.00	-62.09	H
1697.60	-20.88	-27.27	-48.15	-13.00	-35.15	H
2546.40	-26.34	-24.96	-51.30	-13.00	-38.30	H
66.98	-43.38	-30.38	-73.76	-13.00	-60.76	V
1697.60	-18.58	-27.27	-45.85	-13.00	-32.85	V
2546.40	-24.78	-24.96	-49.74	-13.00	-36.74	V

For PCS Band GSM1900 Mode

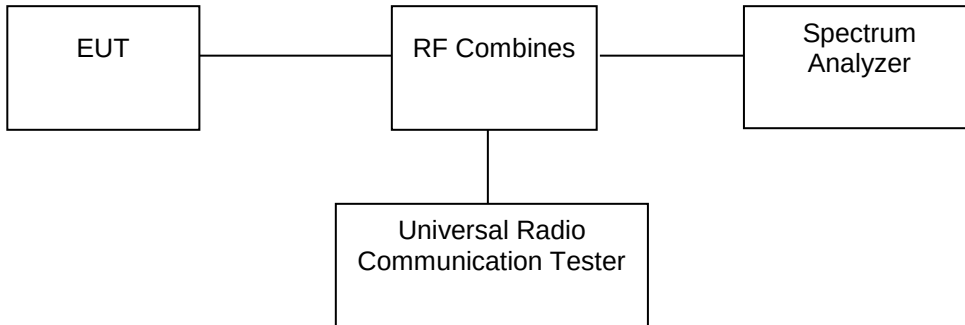
Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (1850.2MHz)						
66.98	-33.08	-30.38	-63.46	-13.00	-50.46	H
3700.40	-26.59	-22.20	-48.79	-13.00	-35.79	H
5550.60	-29.33	-19.32	-48.65	-13.00	-35.65	H
66.98	-42.87	-30.38	-73.25	-13.00	-60.25	V
3700.40	-28.88	-22.20	-51.08	-13.00	-38.08	V
5550.60	-30.73	-19.32	-50.05	-13.00	-37.05	V
Middle Channel (1880MHz)						
66.98	-34.56	-30.38	-64.94	-13.00	-51.94	H
3760.00	-24.61	-22.08	-46.69	-13.00	-33.69	H
5640.00	-29.99	-19.28	-49.27	-13.00	-36.27	H
66.98	-41.73	-30.38	-72.11	-13.00	-59.11	V
3760.00	-28.84	-22.08	-50.92	-13.00	-37.92	V
5640.00	-28.73	-19.28	-48.01	-13.00	-35.01	V
High Channel (1909.8MHz)						
66.98	-31.28	-30.38	-61.66	-13.00	-48.66	H
3819.60	-24.11	-21.96	-46.07	-13.00	-33.07	H
5729.40	-31.44	-19.24	-50.68	-13.00	-37.68	H
66.98	-43.35	-30.38	-73.73	-13.00	-60.73	V
3819.60	-27.98	-21.96	-49.94	-13.00	-36.94	V
5729.40	-31.78	-19.24	-51.02	-13.00	-38.02	V

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 Block Diagram Of Test Setup



11.2 Limit

FCC Part 22.355 : ± 2.5 ppm

FCC Part 24.235 :

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

11.3 Test procedure

1. The testing follows FCC KDB 971168 D01v03r01 Section 9.0.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C steps up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

Test Procedures for Voltage Variation

1. The testing follows FCC KDB 971168 D01v03r01 Section 9.0.
2. The EUT was placed in a temperature chamber at $25 \pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

11.4 Test Result

Operation Mode	Channel Number	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		Voltage (V)	Temp (°C)				
GSM850	190	VN	-30	836.60	2.34	0.0028	2.5
			-20	836.60	2.23	0.0027	2.5
			-10	836.60	2.27	0.0027	2.5
			0	836.60	5.37	0.0064	2.5
			10	836.60	-0.88	-0.0011	2.5
			20	836.60	-0.60	-0.0007	2.5
			30	836.60	0.80	0.0010	2.5
			40	836.60	-1.96	-0.0023	2.5
			50	836.60	6.42	0.0077	2.5
		VL	20	836.60	-2.51	-0.0030	2.5
		VH	20	836.60	1.51	0.0018	2.5
VERDICT				PASS			

Operation Mode	Channel Number	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		Voltage (V)	Temp (°C)				
GSM1900	512	VN	-30	1850.20	16.64	0.0090	2.5
			-20	1850.20	17.43	0.0094	2.5
			-10	1850.20	17.13	0.0093	2.5
			0	1850.20	14.37	0.0078	2.5
			10	1850.20	13.11	0.0071	2.5
			20	1850.20	11.20	0.0061	2.5
			30	1850.20	18.99	0.0103	2.5
			40	1850.20	15.90	0.0086	2.5
			50	1850.20	19.02	0.0103	2.5
		VL	20	1850.20	19.52	0.0105	2.5
		VH	20	1850.20	10.40	0.0056	2.5
VERDICT				PASS			

Note 1: All modes have been tested with GSM.

Note 2: All modes have been tested, and the worst result recorded was report as below

Note 3: The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

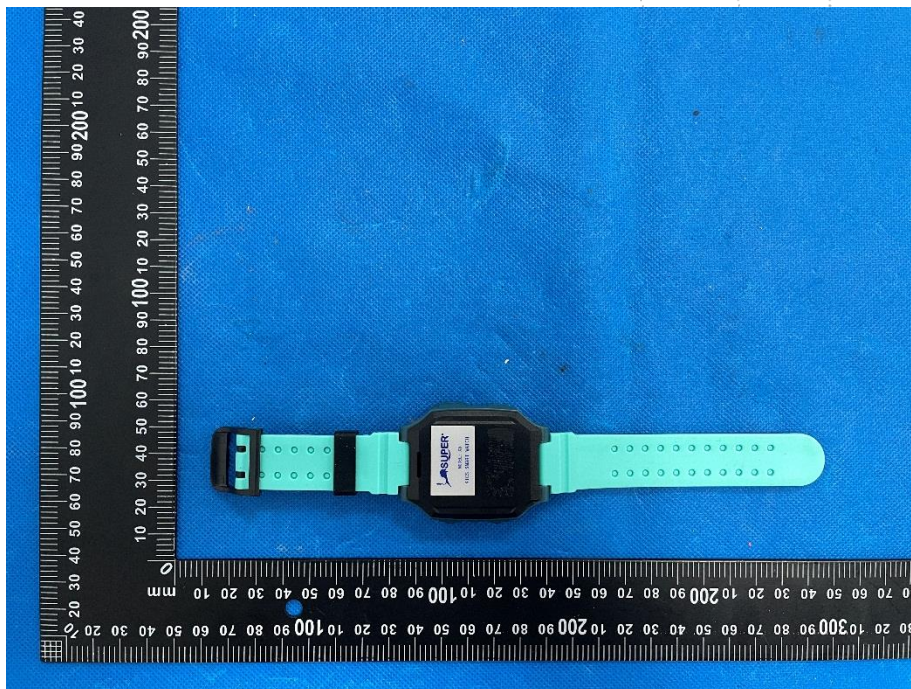
Note 4: The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

12. EUT Photographs

EUT Photo 1



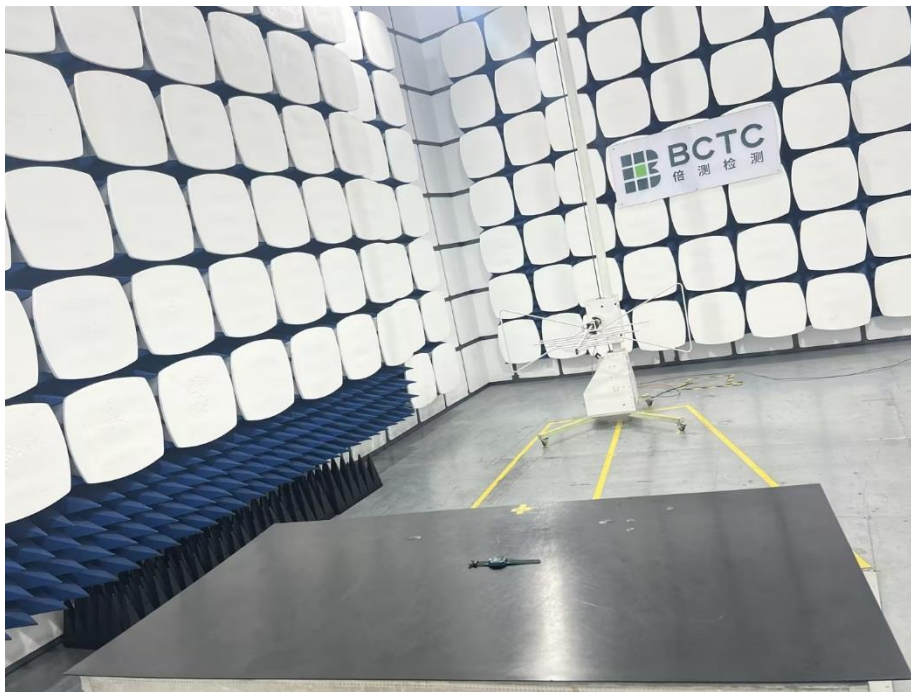
EUT Photo 2



NOTE: Appendix-Photographs Of EUT Constructional Details

13. EUT Test Setup Photographs

Radiated Measurement Photos



STATEMENT

1. The equipment lists are traceable to the national reference standards.
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without the "special seal for inspection and testing".
4. The test report is invalid without the signature of the approver.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC17025.
8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: 400-788-9558

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FAX: 0755-33229357

Website: <http://www.chnbctc.com>

E-Mail: bctc@bctc-lab.com.cn

***** END *****