

TEST REPORT

Report No.: BCTC2505938821-4E

Applicant: BEDIGITAL S.A.S.

Product Name: Smart Watch

Test Model: SW100

Tested Date: 2025-05-26 to 2025-06-03

Issued Date: 2025-06-03

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2BPV3-SW100

Product Name: Smart Watch
Trademark: esenses
Model/Type reference: SW100
Prepared For: BEDIGITAL S.A.S.
Address: KM 3.3VIA FUNZA SIBERIA PARQUE EMPRESARIAL SANTA LUCIA BODEGA
13A. Colombia
Manufacturer: SHENZHEN DOMINO TIMES TECHNOLOGY CO., LTD.
Address: Rm806, Taibang Tech Bldg, Keji South 10th Rd, Nanshan Dist, 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: 2025-05-14
Sample tested Date: 2025-05-26 to 2025-06-03
Issue Date: 2025-06-03
Report No.: BCTC2505938821-4E
Test Standards: FCC CFR Title 47 Part 2
FCC CFR Title 47 Part22 Subpart H
FCC CFR Title 47 Part24 Subpart E
FCC CFR Title 47 Part27 Subpart L
ANSI/TIA-603-E-2016; [1] or • ANSI/TIA-102.CAAA-E-2016; [1] or • ANSI
C63.26-2015
FCC KDB 971168 D01 Power Meas. License Digital Systems v03v01
Test Results: PASS
Remark: This is GSM & WCDMAradio test report.

Tested by:



Lei Chen/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.

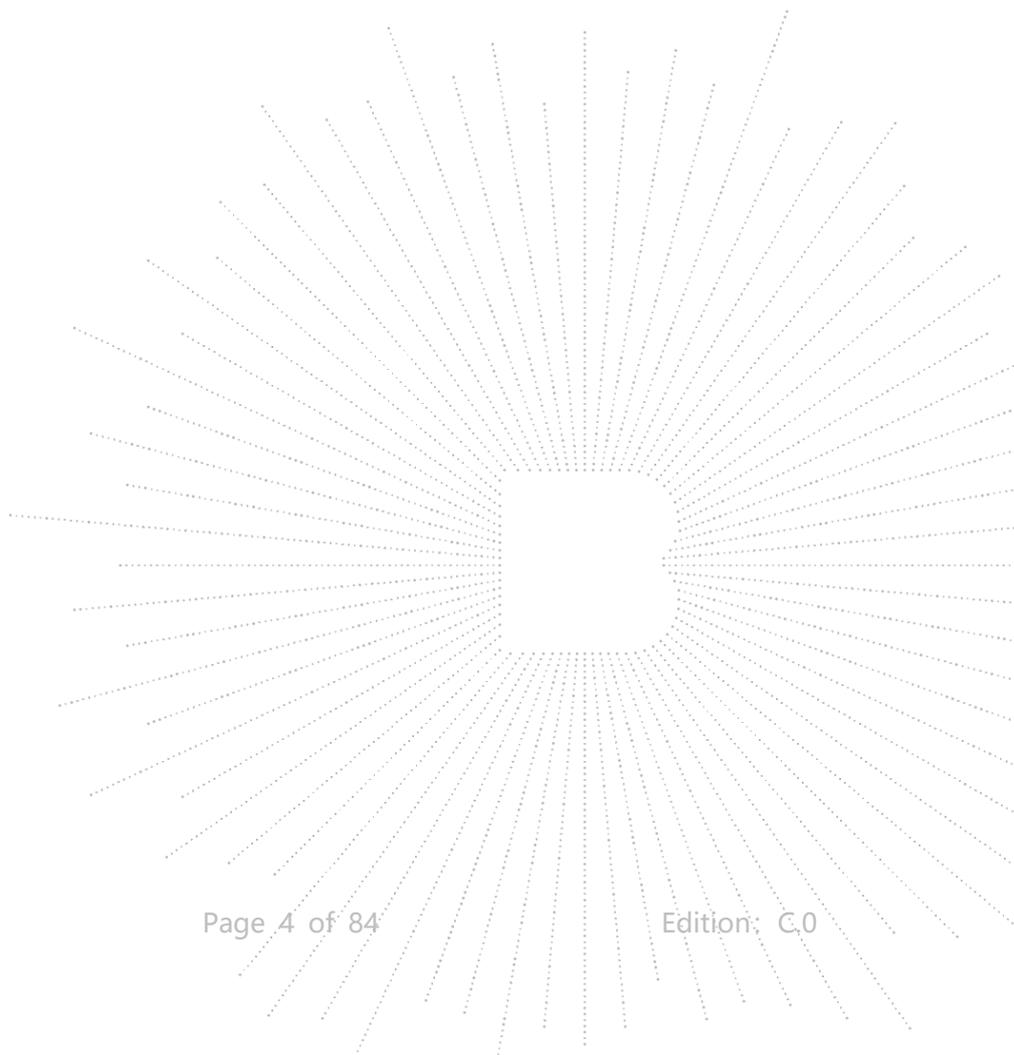
Table Of Content

	Page
Test Report Declaration	
1. Version	4
2. Test Summary	5
3. Measurement Uncertainty	6
4. Product Information And Test Setup	7
4.1 Product Information.....	7
4.2 Test Setup Configuration	8
4.3 Support Equipment	8
4.5 Test Mode	8
5. Test Facility And Test Instrument Used.....	10
5.1 Test Facility.....	10
5.2 Test Instrument Used.....	10
6. RF Output Power.....	12
6.1 Block Diagram Of Test Setup.....	12
6.2 Limit	13
6.3 Test procedure.....	14
6.4 Test Result.....	14
7. Peak-to-average Ratio(PAR) of Transmitter.....	21
7.1 Block Diagram Of Test Setup.....	21
7.2 Limit	21
7.3 Test procedure.....	21
7.4 Test Result.....	22
8. Emission Bandwidth	37
8.1 Block Diagram Of Test Setup.....	37
8.2 Limit	37
8.3 Test procedure.....	37
8.4 Test Result.....	38
9. Out of Band Emissions at Antenna Terminal.....	53
9.1 Block Diagram Of Test Setup.....	53
9.2 Limit	53
9.3 Test procedure.....	53
9.4 Test Result.....	53
10. Spurious Radiated Emissions.....	75
10.1 Block Diagram Of Test Setup.....	75
10.2 Limit	76
10.3 Test procedure.....	76
10.4 Test Result.....	77
11. Frequency Stability.....	79
11.1 Block Diagram Of Test Setup.....	79
11.2 Limit	79
11.3 Test procedure.....	79
11.4 Test Result.....	80
12. EUT Photographs.....	82
13. EUT Test Setup Photographs.....	83

(Note: N/A Means Not Applicable)

1. Version

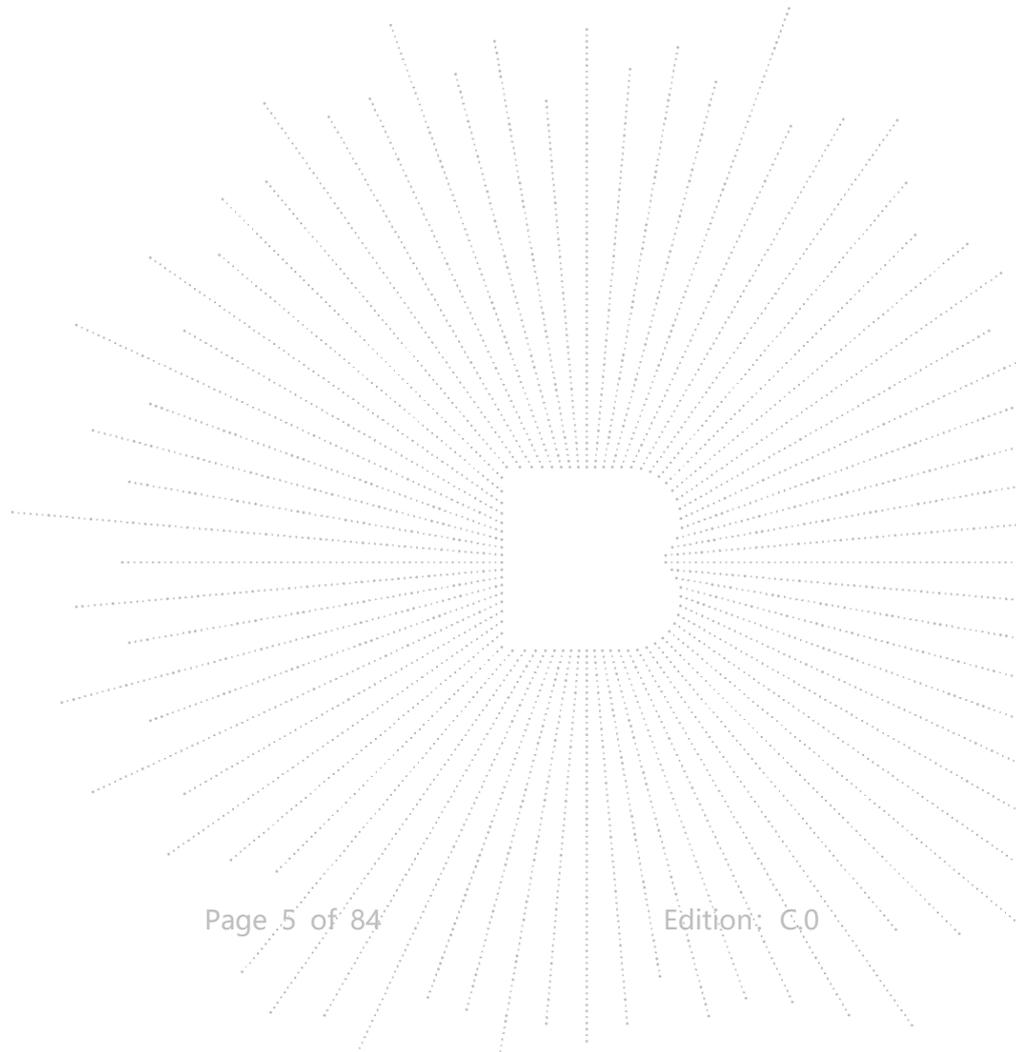
Report No.	Issue Date	Description	Approved
BCTC2505938821-4E	2025-06-03	Original	Valid



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), §27.50, §2.1046	PASS
3	Peak-to-average Ratio(PAR) of Transmitter	§24.232(d), §22.913, §27.50, §2.1046	PASS
4	Emission Bandwidth	§22.917 (b), §24.238(b), §27.53, §2.1049	PASS
5	Spurious Emissions at Antenna Terminal	§22.917 (a), §24.238 (a), §27.53, §2.1051	PASS
6	Spurious Radiation Emissions	§22.917 (a), §24.238 (a), §27.53, §2.1051	PASS
7	Out of Band Emissions	§22.917 (a), §24.238 (a), §27.53, §2.1051	PASS
8	Frequency Stability	§22.355, §24.235, §27.54, §2.1055	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:	SW100
Model differences:	N/A
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	GSM/GPRS/EGPRS 850: TX: 824~849MHz; RX: 869~894MHz; GSM/GPRS/EGPRS 1900: TX:1850~1910MHz; RX:1930~1990MHz; WCDMA Band II: TX: 1852.40~1907.60MHz; Rx: 1932.60~1987.40MHz; WCDMA Band V: TX: 826.40~846.60MHz; RX: 871.40~ 891.60MHz;
GPRS Class:	Class 12
Max RF Output Power:	GSM/GPRS/EGPRS 850: 33.47 dBm, GSM/GPRS/EGPRS 1900: 29.88 dBm WCDMA Band II: 22.88 dBm WCDMA Band V: 22.97 dBm
Type of Modulation:	GSM with GMSK Modulation, EGPRS with 8PSK Modulation WCDMA Mode with BPSK Modulation HSDPA Mode with QPSK, 16QAM Modulation HSUPA Mode with QPSK, 16QAM Modulation
Type of Emission:	GSM/GPRS 850: 250KGXW GSM/GPRS 1900: 252KGXW EGPRS 850:251KG7W EGPRS 1900:247KG7W WCDMA Band II: 4M16F9W WCDMA Band V: 4M16F9W
Antenna installation:	External antenna GSM850: -7.46 dBi GSM1900: -6.09 dBi WCDMA Band II: -6.09 dBi WCDMA Band V: -7.46 dBi
Antenna Gain:	Remark: <input type="checkbox"/> The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. <input checked="" type="checkbox"/> The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
Connecting I/O Port(s)	Please refer to the User's Manual
Ratings:	DC 3.87V from battery, DC 5V from USB

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
E-1	Smart Watch	esenses	SW100	N/A	EUT

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/GPRS/EGPRS	824.2 MHz	128
		836.6 MHz	190
		848.8 MHz	251
PCS 1900	GSM/GPRS/EGPRS	1850.2 MHz	512
		1880.0 MHz	661
		1909.8 MHz	810
WCDMA Band II	RMC/HSDPA/HSUPA	1852.4 MHz	9262
		1880.0 MHz	9400
		1907.6 MHz	9538
WCDMA Band V	RMC/HSDPA/HSUPA	826.4 MHz	4132
		836.4 MHz	4182
		846.6 MHz	4233

Note 1: the transmitter has been tested on the communications mode of WCDMA, HSDPA, HSUPA compliance test and record the worst case.

EUT Cable List and Details

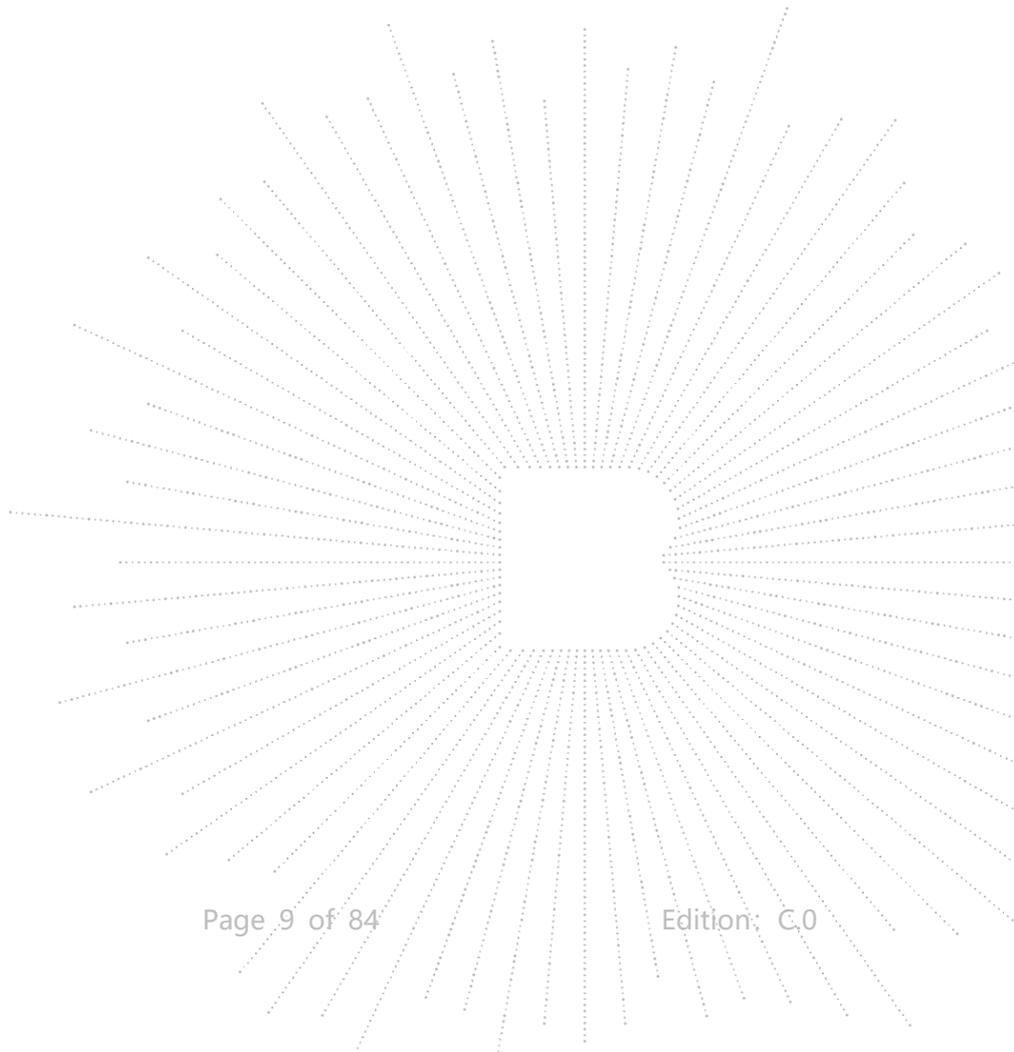
Cable Description	Length (M)	Shielded/Unshielded	With Core/ Without Core
/	/	/	/
/	/	/	/

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

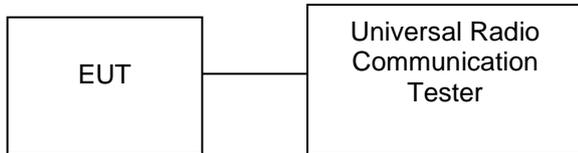
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power metter	Keysight	E4419	\	May 14, 2025	May 13, 2026
Power Sensor (AV)	Keysight	E9300A	\	May 14, 2025	May 13, 2026
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 14, 2025	May 13, 2026
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 14, 2025	May 13, 2026
Radio frequency control box	MAIWEI	MW100-RFCB	\	\	\
Software	MAIWEI	MTS 8310	\	\	\
Communication test set	R&S	CMW500	126173	May 14, 2025	May 13, 2026

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	ESR	102075	May 08, 2025	May 07, 2026
Receiver	R&S	ESRP	101154	May 14, 2025	May 13, 2026
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 14, 2025	May 13, 2026
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 24, 2025	May 23, 2026
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 24, 2025	May 23, 2026
Amplifier	SKET	LAPA_01G18 G-45dB	SK202104090 1	May 14, 2025	May 13, 2026
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 24, 2025	May 23, 2026
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 24, 2025	May 23, 2026
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 24, 2025	May 23, 2026
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 14, 2025	May 13, 2026
Software	Frad	EZ-EMC	FA-03A2 RE	\	\
Communication test set	R&S	CMW500	126173	May 14, 2025	May 13, 2026

6. RF Output Power

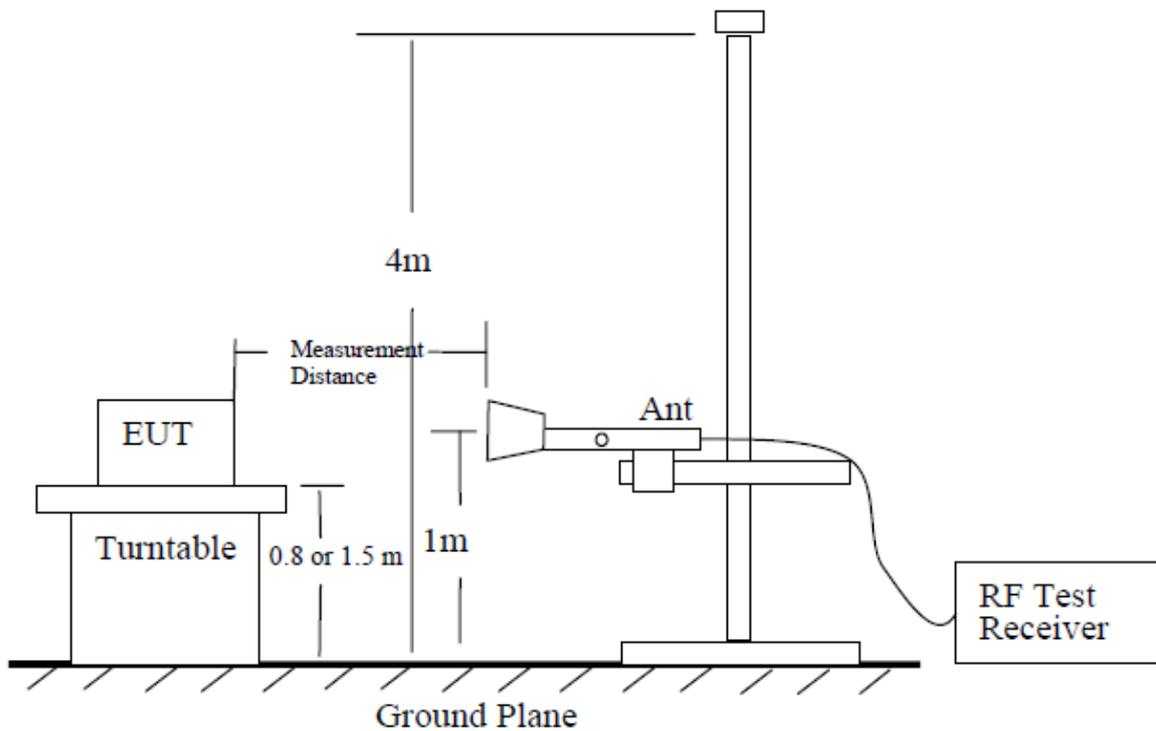
6.1 Block Diagram Of Test Setup

Conducted output power test method:

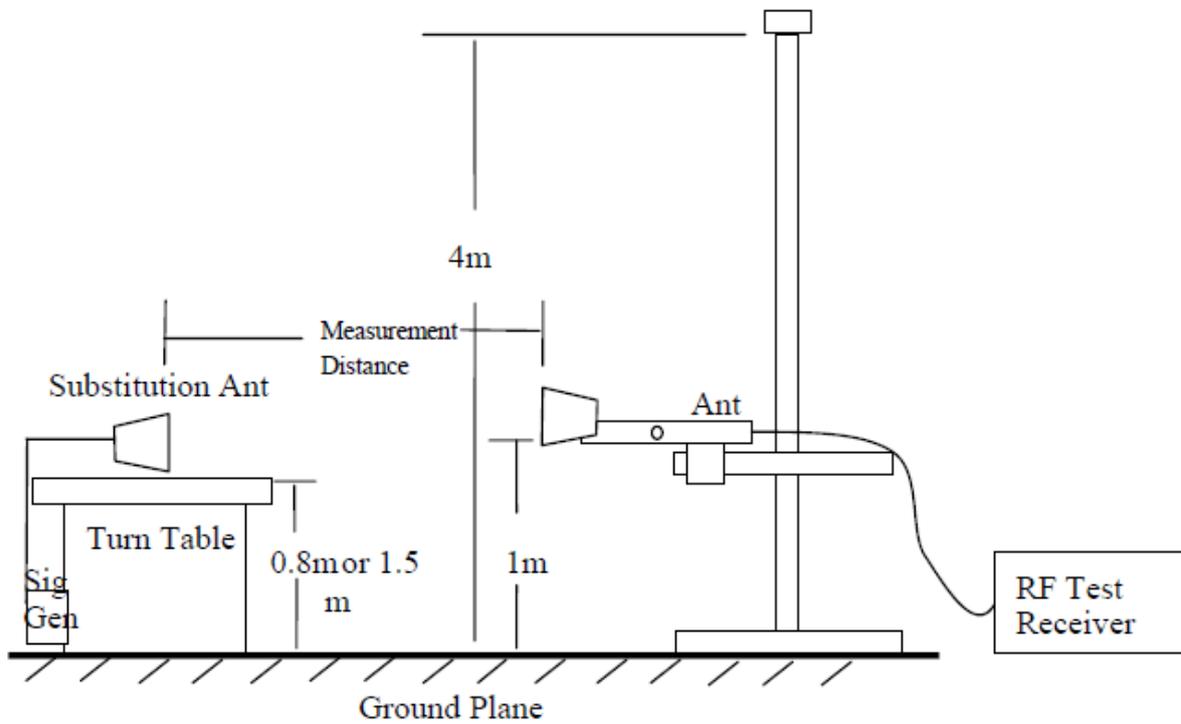


Radiated power test method:

(A) Test site-up for radiated ERP and/or EIRP measurements



(B) Substitution method set-up for radiated emission



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-603-E-2016 and ANSI C63.26-2015 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)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 22H Limits (dBm)	Result
Low Channel						
824.2	H	54.02	-26.29	27.73	38.45	PASS
824.2	V	54.21	-26.29	27.92	38.45	PASS
Middle Channel						
836.6	H	53.67	-26.35	27.32	38.45	PASS
836.6	V	53.05	-26.35	26.70	38.45	PASS
High Channel						
848.8	H	54.27	-26.42	27.85	38.45	PASS
848.8	V	54.18	-26.42	27.76	38.45	PASS

EIRP For GSM Mode PCS1900

Frequency (MHz)	Polar (H/V)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 24E Limits (dBm)	Result
Low Channel						
1850.2	H	54.75	-26.93	27.82	33.00	PASS
1850.2	V	54.69	-26.93	27.76	33.00	PASS
Middle Channel						
1880	H	54.06	-26.86	27.20	33.00	PASS
1880	V	53.98	-26.86	27.12	33.00	PASS
High Channel						
1909.8	H	54.30	-26.80	27.50	33.00	PASS
1909.8	V	53.88	-26.80	27.08	33.00	PASS

ERP For GPRS Mode GSM850

Frequency (MHz)	Polar (H/V)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 22H Limits (dBm)	Result
Low Channel						
824.2	H	53.48	-26.29	27.19	38.45	PASS
824.2	V	53.22	-26.29	26.93	38.45	PASS
Middle Channel						
836.6	H	53.75	-26.35	27.40	38.45	PASS
836.6	V	53.88	-26.35	27.53	38.45	PASS
High Channel						
848.8	H	54.28	-26.42	27.86	38.45	PASS
848.8	V	54.18	-26.42	27.76	38.45	PASS

EIRP For GPRS Mode PCS1900

Frequency (MHz)	Polar (H/V)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 24E Limits (dBm)	Result
Low Channel						
1850.2	H	54.41	-26.93	27.48	33.00	PASS
1850.2	V	54.27	-26.93	27.34	33.00	PASS
Middle Channel						
1880	H	54.57	-26.86	27.71	33.00	PASS
1880	V	53.83	-26.86	26.97	33.00	PASS
High Channel						
1909.8	H	54.35	-26.80	27.55	33.00	PASS
1909.8	V	54.01	-26.80	27.21	33.00	PASS

Note: All modes have been tested and only the worst mode is represented, with the worst data being Subtest1.

ERP For EGPRS Mode GSM850

Frequency (MHz)	Polar (H/V)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 22H Limits (dBm)	Result
Low Channel						
824.2	H	53.78	-26.29	27.49	38.45	PASS
824.2	V	53.31	-26.29	27.02	38.45	PASS
Middle Channel						
836.6	H	53.22	-26.35	26.87	38.45	PASS
836.6	V	52.97	-26.35	26.62	38.45	PASS
High Channel						
848.8	H	53.76	-26.42	27.34	38.45	PASS
848.8	V	53.93	-26.42	27.51	38.45	PASS

EIRP For EGPRS Mode PCS1900

Frequency (MHz)	Polar (H/V)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 24E Limits (dBm)	Result
Low Channel						
1850.2	H	54.29	-26.93	27.36	33.00	PASS
1850.2	V	54.09	-26.93	27.16	33.00	PASS
Middle Channel						
1880	H	54.20	-26.86	27.34	33.00	PASS
1880	V	54.33	-26.86	27.47	33.00	PASS
High Channel						
1909.8	H	54.55	-26.80	27.75	33.00	PASS
1909.8	V	54.34	-26.80	27.54	33.00	PASS

Note: All modes have been tested and only the worst mode is represented, with the worst data being Subtest1.

EIRP For RMC 12.2Kbps Mode Band II

Frequency (MHz)	Polar (H/V)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 24E Limits (dBm)	Result
Low Channel						
1852.4	H	50.26	-26.92	23.34	33.00	PASS
1852.4	V	48.84	-26.92	21.92	33.00	PASS
Middle Channel						
1880	H	49.52	-26.86	22.66	33.00	PASS
1880	V	48.50	-26.86	21.64	33.00	PASS
High Channel						
1907.6	H	48.84	-26.80	22.04	33.00	PASS
1907.6	V	48.63	-26.80	21.83	33.00	PASS

EIRP For HSDPA Mode Band II

Frequency (MHz)	Polar (H/V)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 24E Limits (dBm)	Result
Low Channel						
1852.4	H	49.25	-26.92	22.33	33.00	PASS
1852.4	V	49.27	-26.92	22.35	33.00	PASS
Middle Channel						
1880	H	49.69	-26.86	22.83	33.00	PASS
1880	V	48.70	-26.86	21.84	33.00	PASS
High Channel						
1907.6	H	48.68	-26.80	21.88	33.00	PASS
1907.6	V	48.75	-26.80	21.95	33.00	PASS

EIRP For HSUPA Mode Band II

Frequency (MHz)	Polar (H/V)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 24E Limits (dBm)	Result
Low Channel						
1852.4	H	50.15	-26.92	23.23	33.00	PASS
1852.4	V	49.17	-26.92	22.25	33.00	PASS
Middle Channel						
1880	H	48.72	-26.86	21.86	33.00	PASS
1880	V	49.14	-26.86	22.28	33.00	PASS
High Channel						
1907.6	H	49.63	-26.80	22.83	33.00	PASS
1907.6	V	48.71	-26.80	21.91	33.00	PASS

Note: The worst mode of HSDPA and HSUPA is Subtest1.

ERP For RMC 12.2Kbps Mode Band V

Frequency (MHz)	Polar (H/V)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 22H Limits (dBm)	Result
Low Channel						
826.4	H	49.67	-26.29	23.38	38.45	PASS
826.4	V	48.86	-26.29	22.57	38.45	PASS
Middle Channel						
836.4	H	48.98	-26.35	22.63	38.45	PASS
836.4	V	48.96	-26.35	22.61	38.45	PASS
High Channel						
846.6	H	49.46	-26.42	23.04	38.45	PASS
846.6	V	48.70	-26.42	22.28	38.45	PASS

ERP For HSDPA Mode Band V

Frequency (MHz)	Polar (H/V)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 22H Limits (dBm)	Result
Low Channel						
826.4	H	50.29	-26.29	24.00	38.45	PASS
826.4	V	48.57	-26.29	22.28	38.45	PASS
Middle Channel						
836.4	H	48.36	-26.35	22.01	38.45	PASS
836.4	V	48.96	-26.35	22.61	38.45	PASS
High Channel						
846.6	H	50.00	-26.42	23.58	38.45	PASS
846.6	V	48.49	-26.42	22.07	38.45	PASS

ERP For HSUPA Mode Band V

Frequency (MHz)	Polar (H/V)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 22H Limits (dBm)	Result
Low Channel						
826.4	H	49.43	-26.29	23.14	38.45	PASS
826.4	V	48.51	-26.29	22.22	38.45	PASS
Middle Channel						
836.4	H	50.30	-26.35	23.95	38.45	PASS
836.4	V	48.72	-26.35	22.37	38.45	PASS
High Channel						
846.6	H	48.86	-26.42	22.44	38.45	PASS
846.6	V	48.55	-26.42	22.13	38.45	PASS

Note: The worst mode of HSDPA and HSUPA is Subtest1.

Max. Conducted Output Power

For Cellular Band (GSM850)

Band	GSM850		
Channel	128	190	251
Frequency(MHz)	824.2	836.6	848.8
GSM	33.22	33.10	32.91
GPRS Subtest-1	33.05	32.94	32.8
GPRS Subtest-2	31.13	30.9	30.7
GPRS Subtest-3	29.28	29.05	28.83
GPRS Subtest-4	27.14	26.98	26.71
EGPRS Subtest-1	33.47	33.32	33.14
EGPRS Subtest-2	31.42	31.22	30.98
EGPRS Subtest-3	29.52	29.41	29.09
EGPRS Subtest-4	27.37	27.22	26.94

For PCS Band (GSM1900)

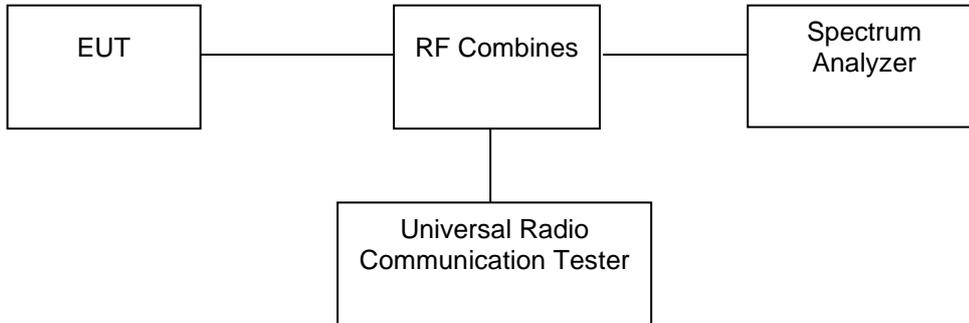
Band	GSM1900		
Channel	512	661	810
Frequency(MHz)	1850.2	1880	1909.8
GSM	29.79	29.29	28.50
GPRS Slot -1	29.88	29.38	28.61
GPRS Slot -2	27.59	27.11	26.63
GPRS Slot -3	26.01	25.42	25.02
GPRS Slot -4	23.94	23.47	22.97
EGPRS Slot -1	29.77	29.31	28.47
EGPRS Slot -2	27.49	26.89	26.45
EGPRS Slot -3	25.96	25.25	24.9
EGPRS Slot -4	23.8	23.13	22.72

Band	WCDMA Band II		
Channel	9262	9400	9538
Frequency(MHz)	1852.4	1880.0	1907.6
WCDMA RMC 12.2K	22.88	22.46	22.18
HSDPA Subtest-1	22.82	21.92	21.85
HSDPA Subtest-2	22.35	21.79	21.59
HSDPA Subtest-3	22.19	21.45	21.44
HSDPA Subtest-4	21.84	21.30	21.09
HSUPA Subtest-1	22.79	21.97	21.88
HSUPA Subtest-2	22.66	21.87	21.83
HSUPA Subtest-3	21.76	21.73	21.78
HSUPA Subtest-4	22.59	21.85	21.77
HSUPA Subtest-5	22.12	21.96	21.82

Band	WCDMA Band V		
Channel	4132	4182	4233
Frequency(MHz)	826.4	836.4	846.6
WCDMA RMC 12.2K	22.49	22.80	22.97
HSDPA Subtest-1	22.32	22.36	22.26
HSDPA Subtest-2	21.98	22.14	21.95
HSDPA Subtest-3	21.48	21.67	21.81
HSDPA Subtest-4	21.21	21.79	21.43
HSUPA Subtest-1	22.07	22.18	22.09
HSUPA Subtest-2	22.18	22.28	22.08
HSUPA Subtest-3	21.51	22.22	22.12
HSUPA Subtest-4	22.05	22.26	22.12
HSUPA Subtest-5	21.98	22.29	22.00

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.

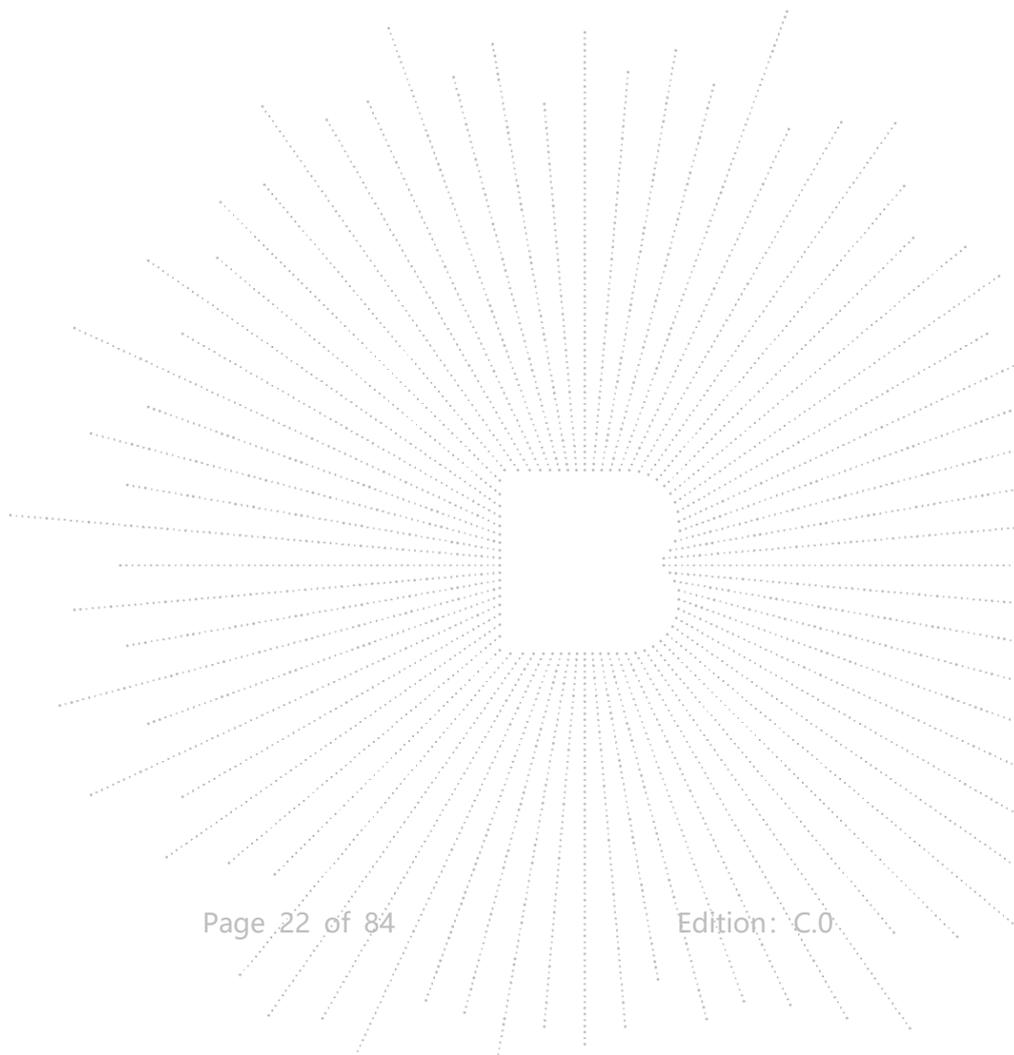
According to §22.913(d), The peak-to-average ratio (PAR) of the transmission must not exceed 13 dB.

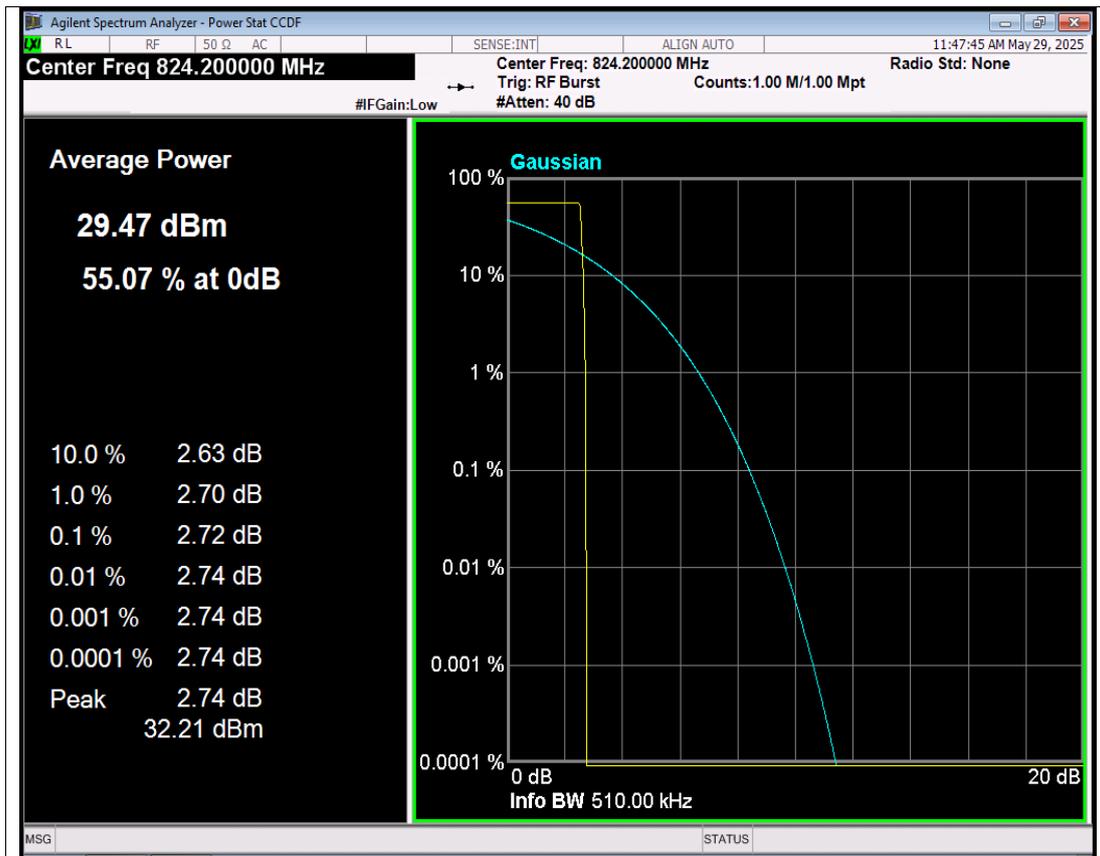
7.3 Test procedure

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%.

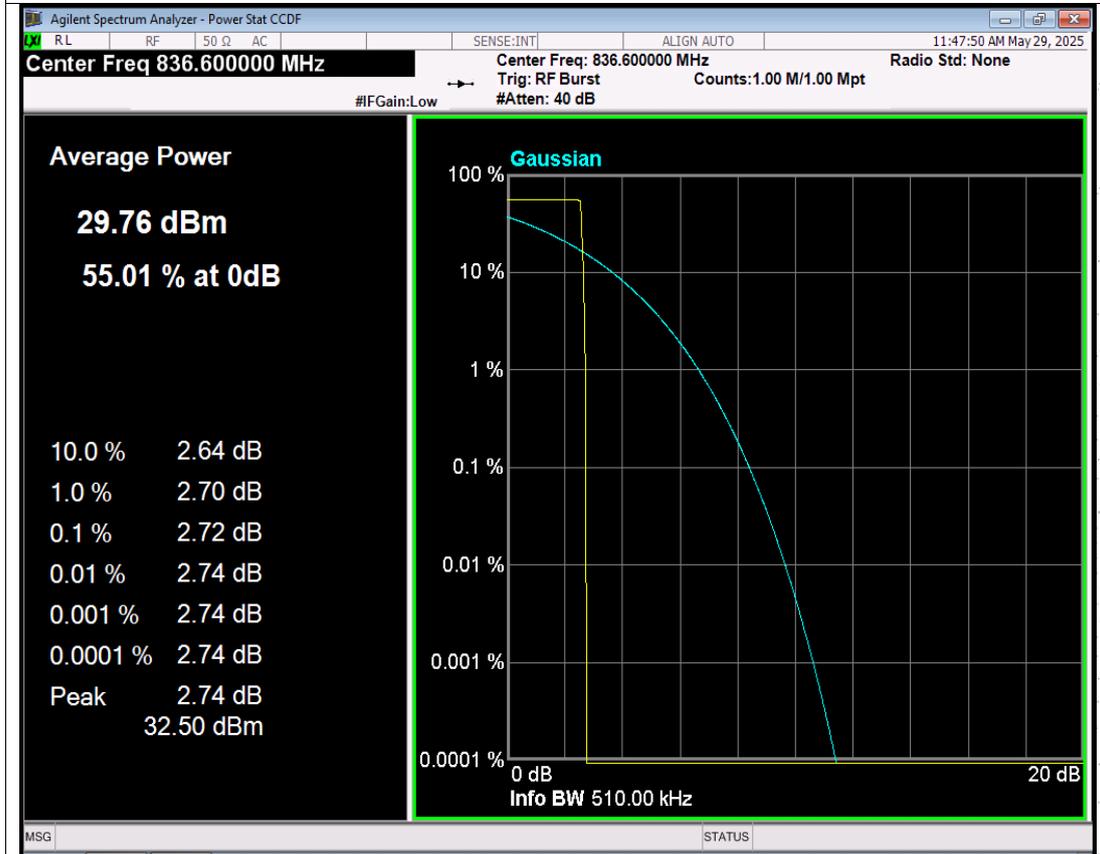
7.4 Test Result

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GSM850	128	824.2	2.72	13.00	PASS
GSM850	190	836.6	2.72	13.00	PASS
GSM850	251	848.8	2.71	13.00	PASS
GSM1900	512	1850.2	2.76	13.00	PASS
GSM1900	661	1880	2.79	13.00	PASS
GSM1900	810	1909.8	2.78	13.00	PASS
GPRS850	128	824.2	2.73	13.00	PASS
GPRS850	190	836.6	2.72	13.00	PASS
GPRS850	251	848.8	2.71	13.00	PASS
GPRS1900	512	1850.2	2.80	13.00	PASS
GPRS1900	661	1880	2.81	13.00	PASS
GPRS1900	810	1909.8	2.82	13.00	PASS
EGPRS850	128	824.2	2.73	13.00	PASS
EGPRS850	190	836.6	2.73	13.00	PASS
EGPRS850	251	848.8	2.71	13.00	PASS
EGPRS1900	512	1850.2	2.78	13.00	PASS
EGPRS1900	661	1880	2.80	13.00	PASS
EGPRS1900	810	1909.8	2.80	13.00	PASS

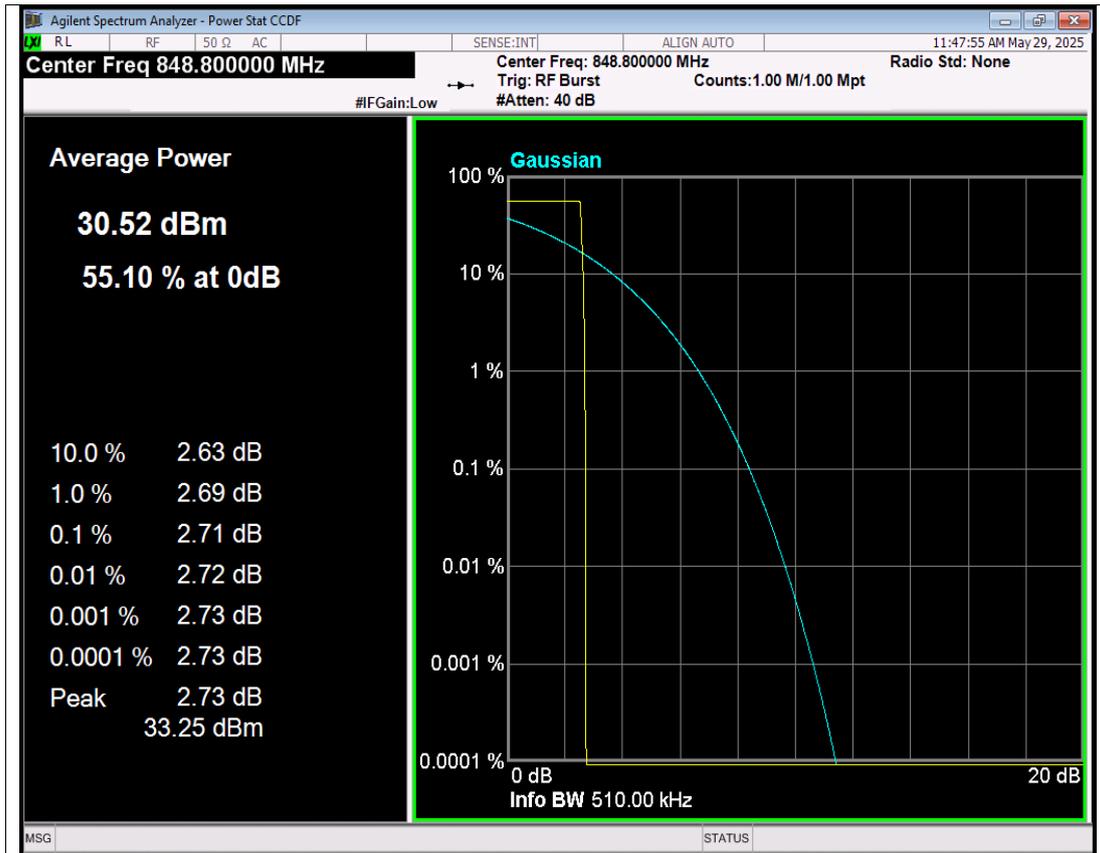




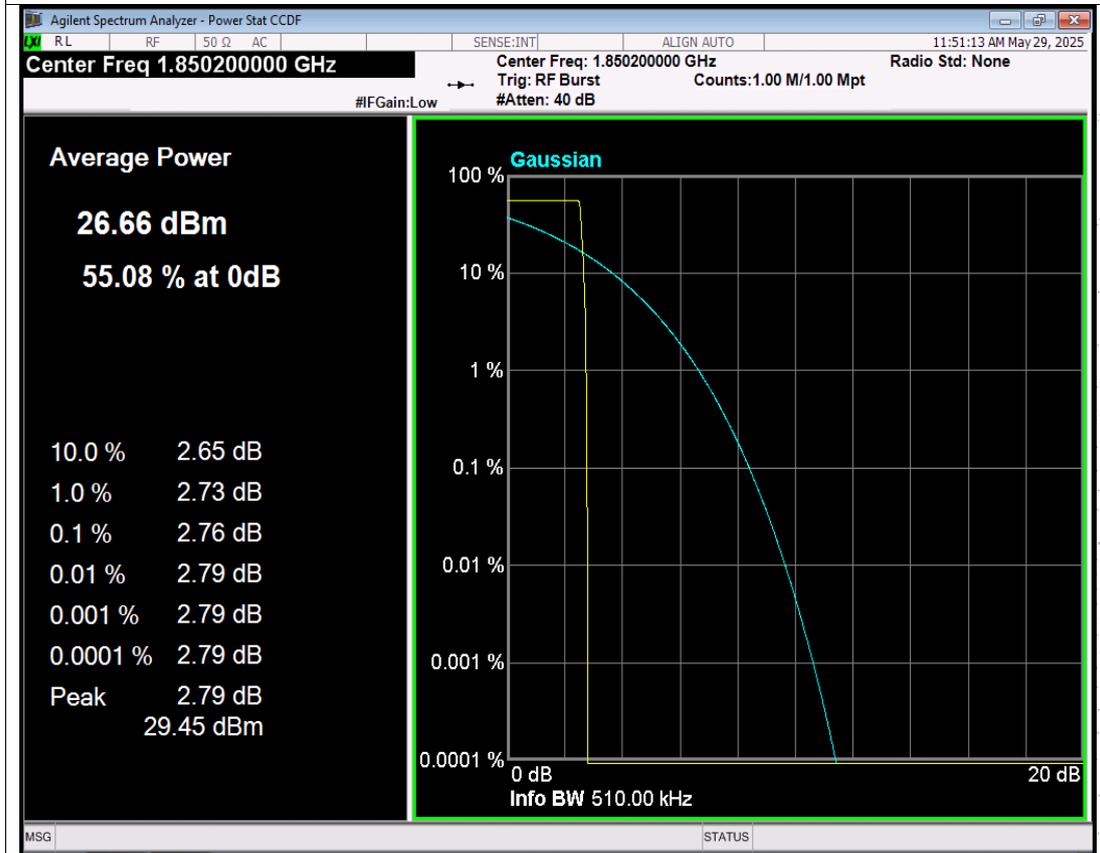
GSM850 Channel=128 NVNT



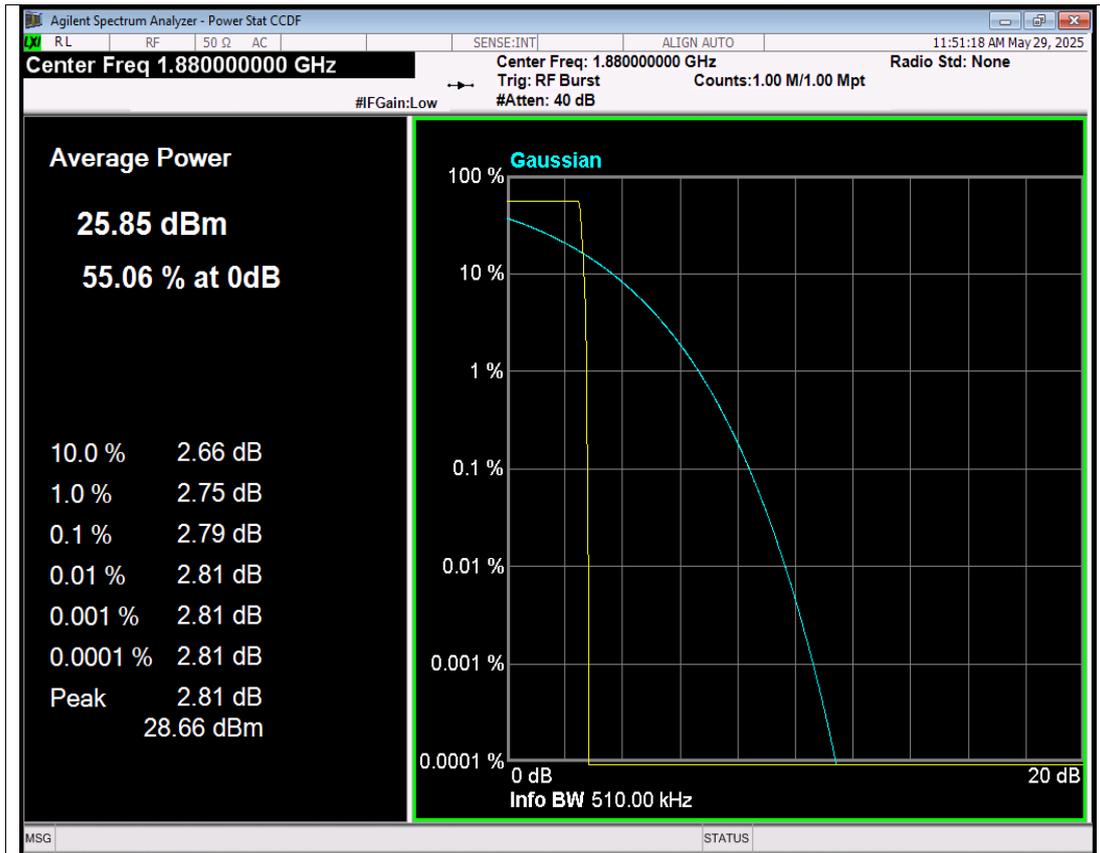
GSM850 Channel=190 NVNT



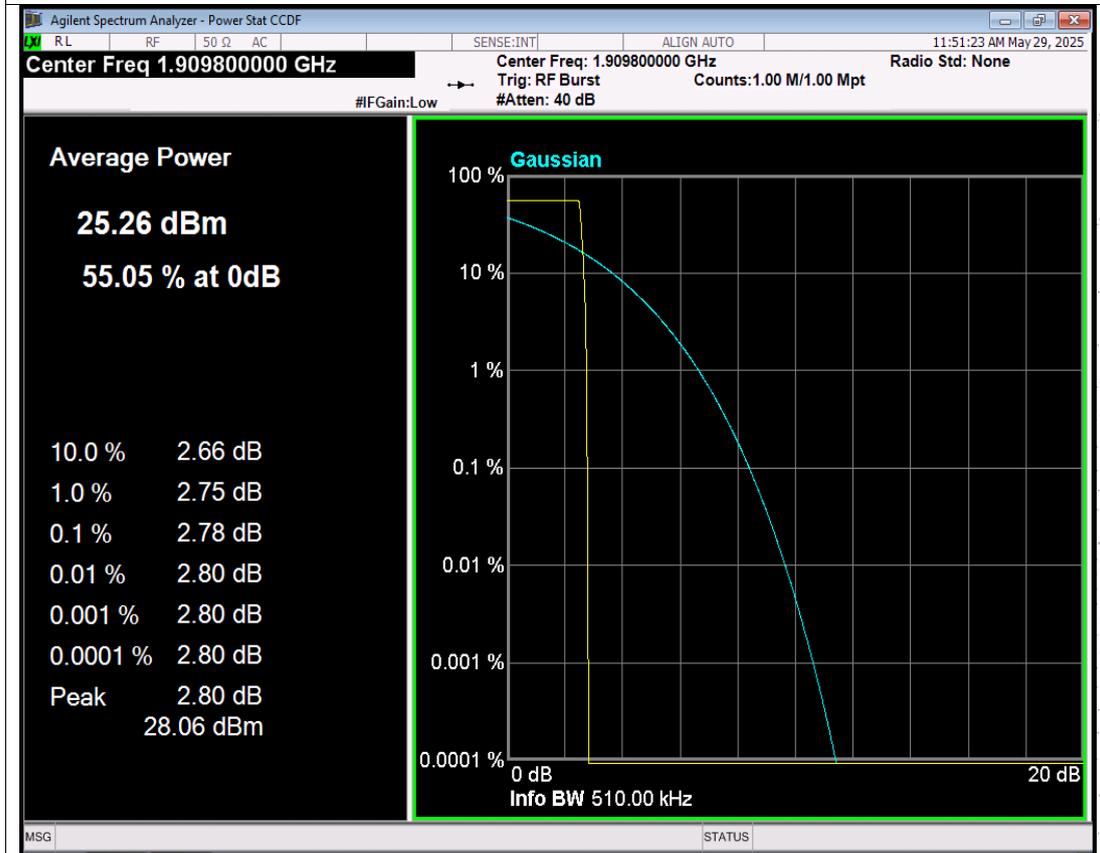
GSM850 Channel=251 NVNT



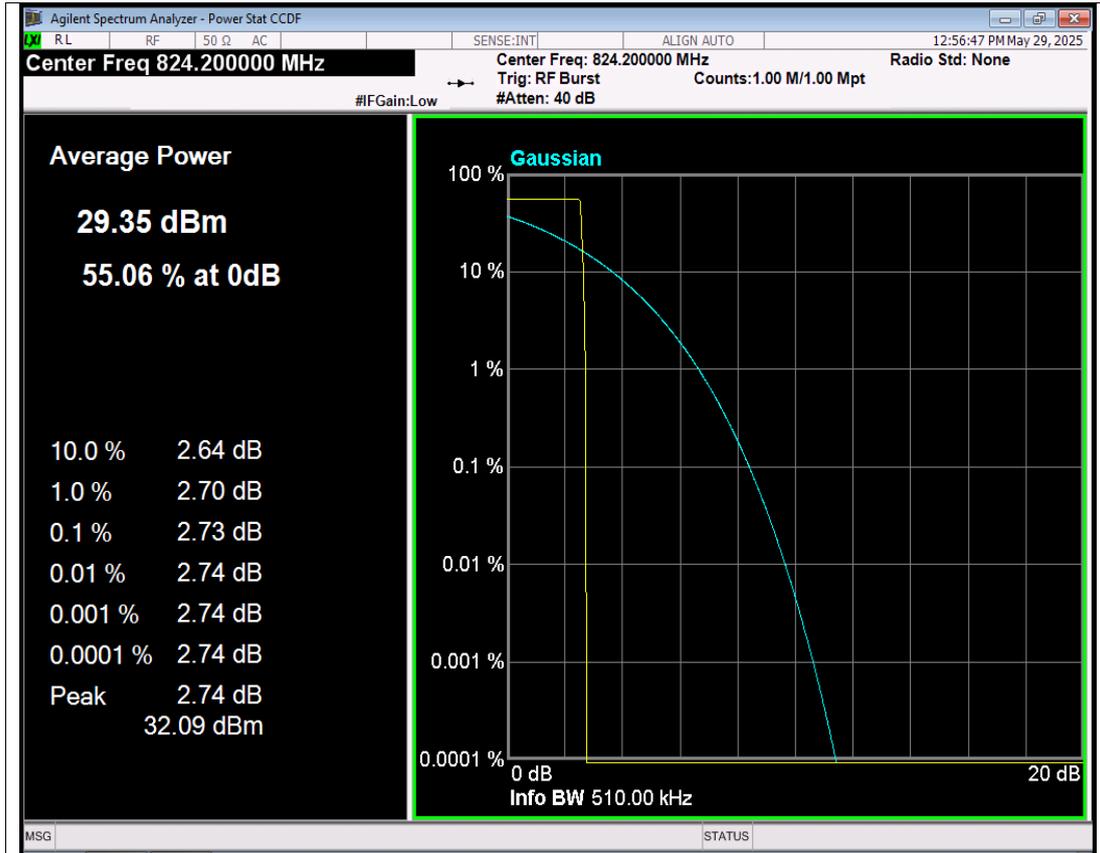
GSM1900 Channel=512 NVNT



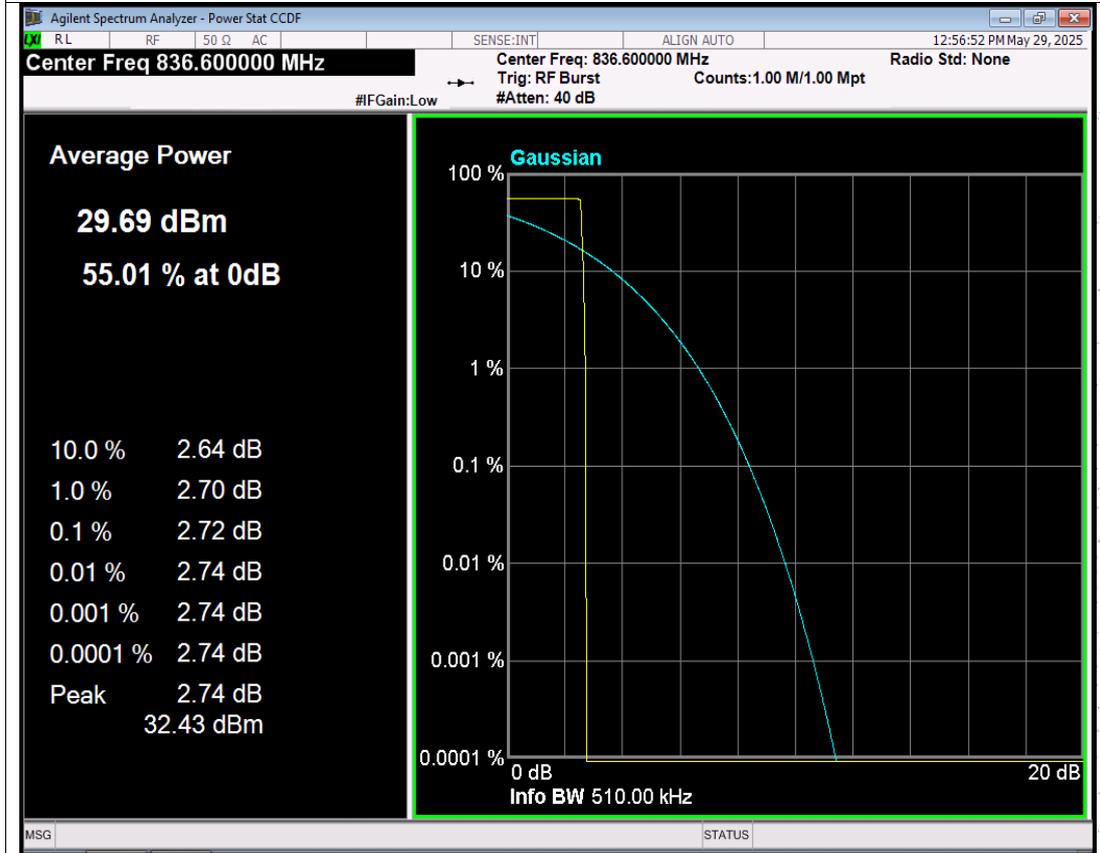
GSM1900 Channel=661 NVNT



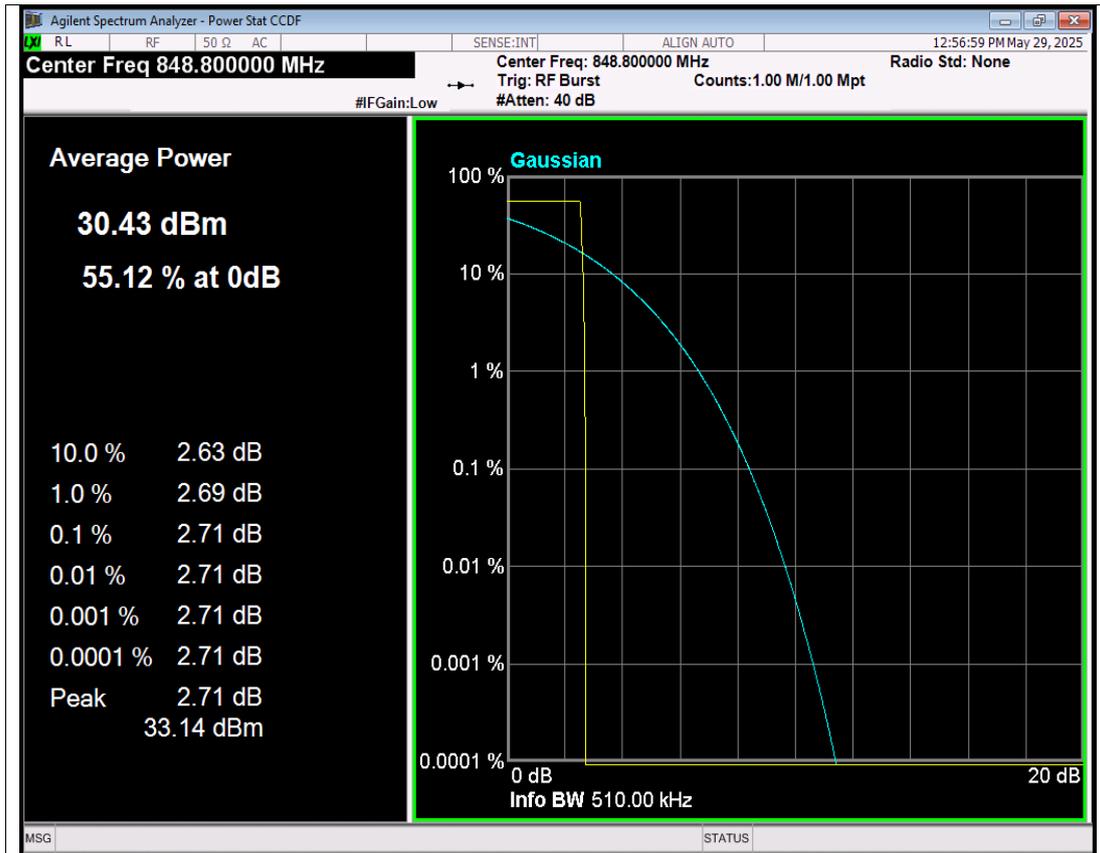
GSM1900 Channel=810 NVNT



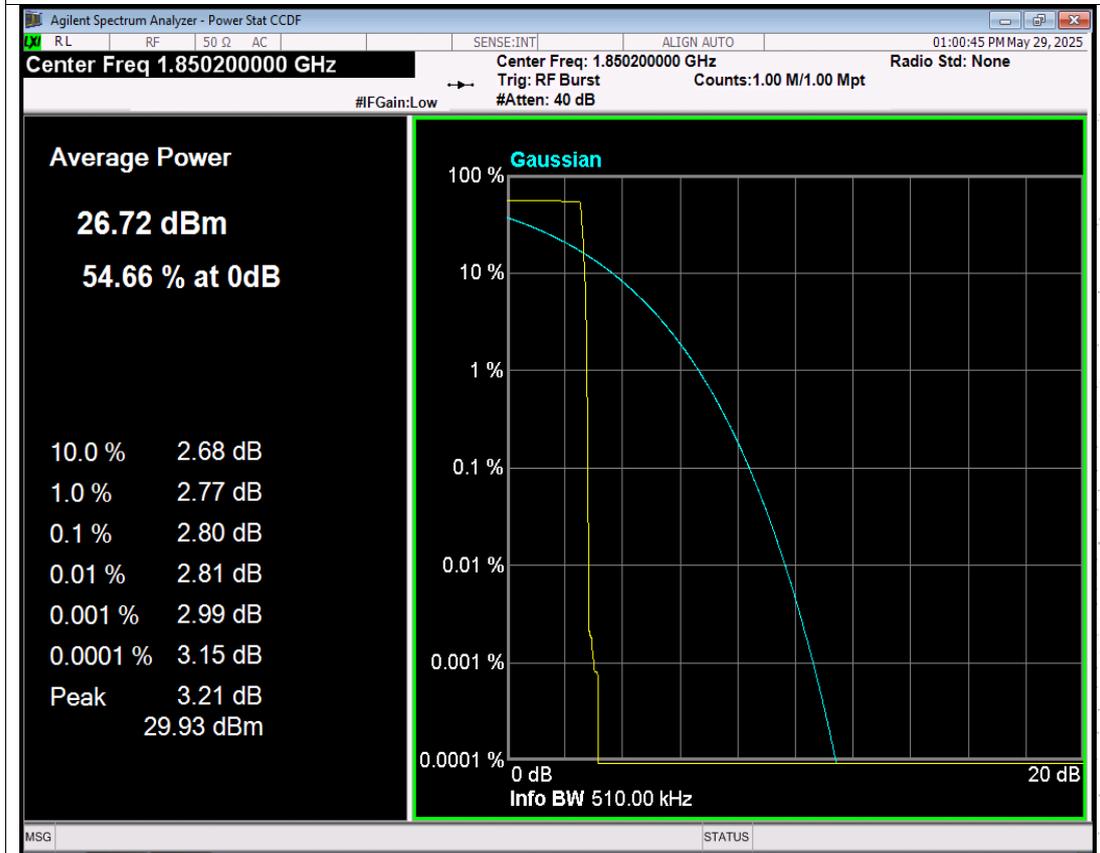
GPRS850 Channel=128 NVNT



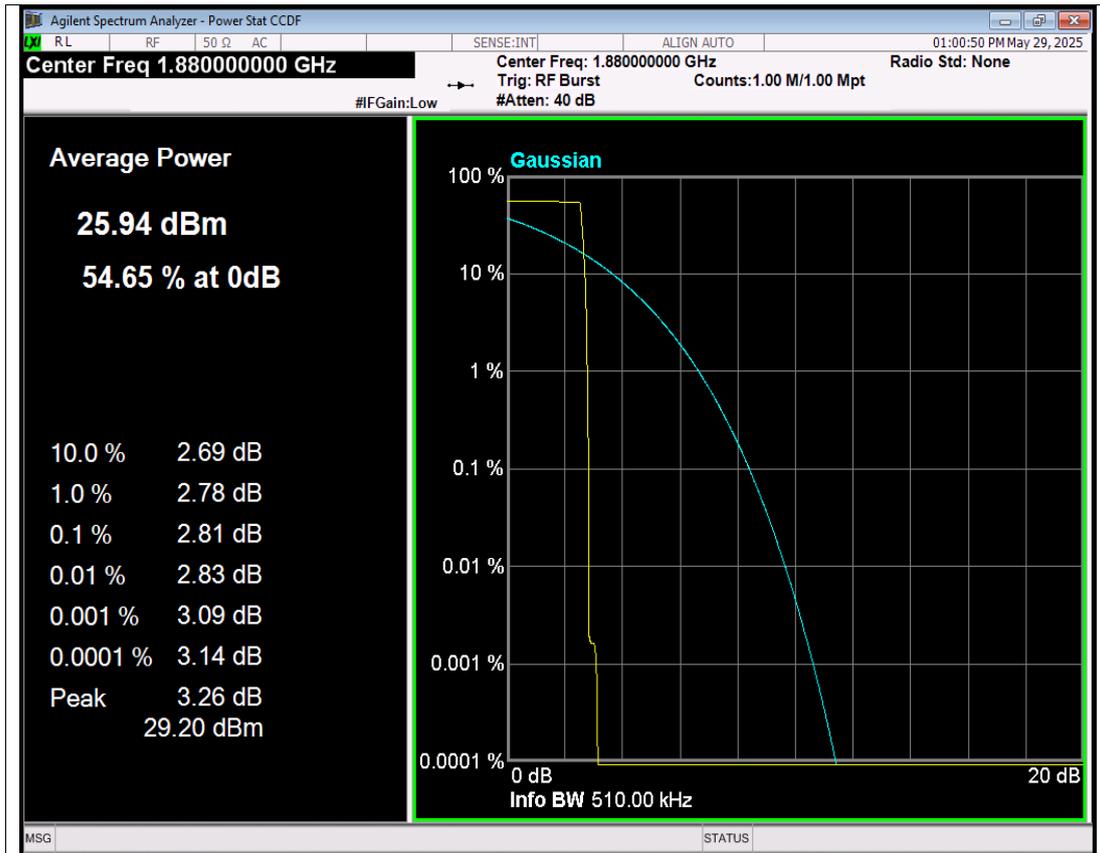
GPRS850 Channel=190 NVNT



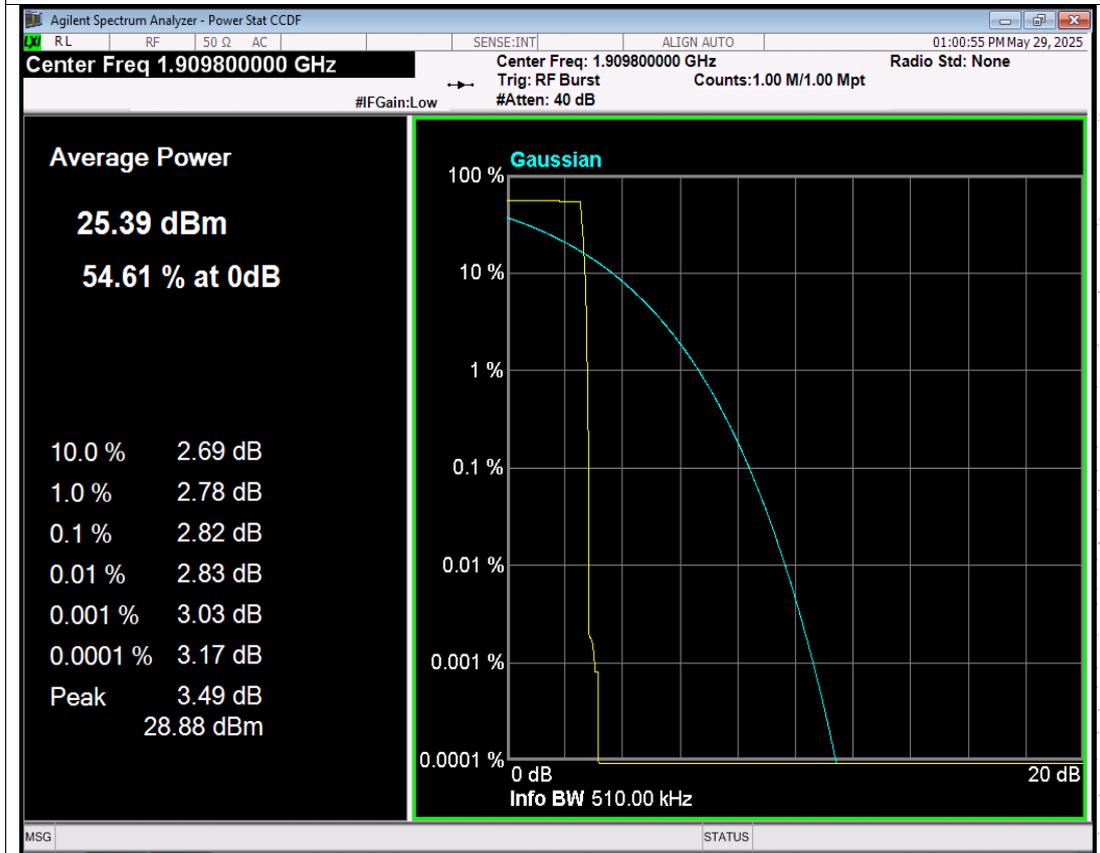
GPRS850 Channel=251 NVNT



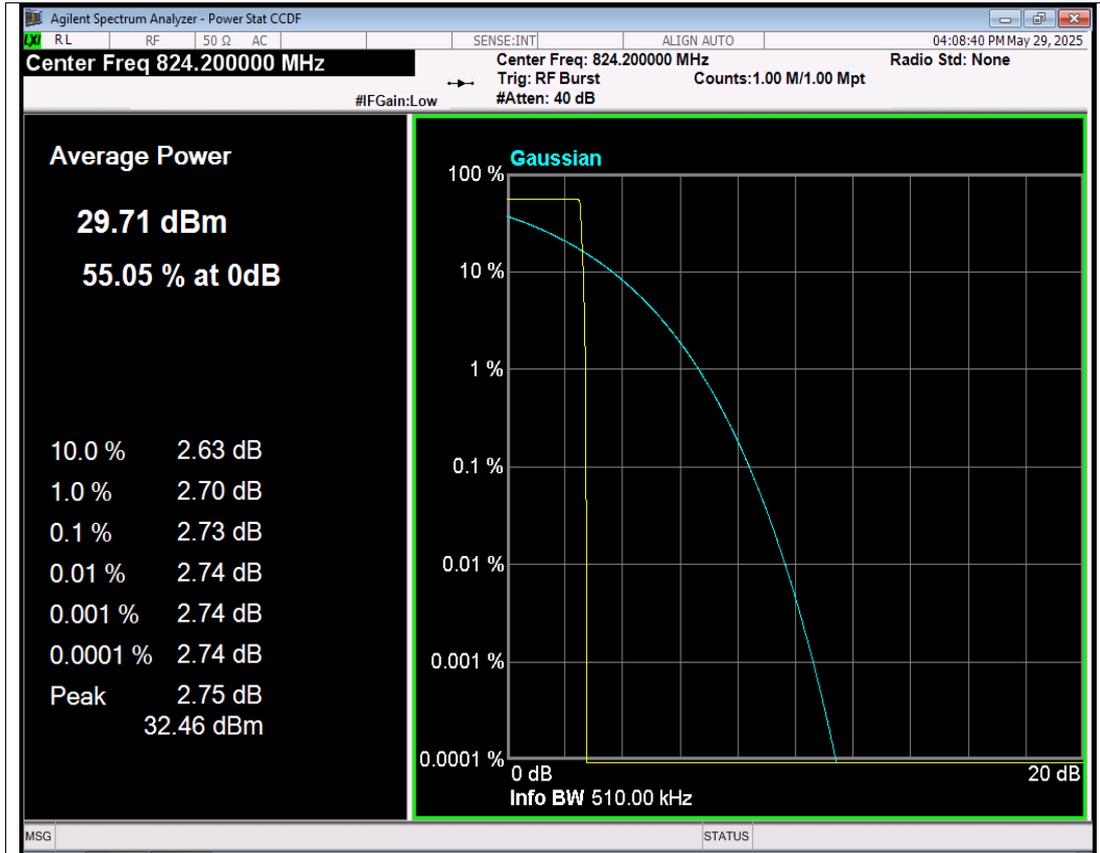
GPRS1900 Channel=512 NVNT



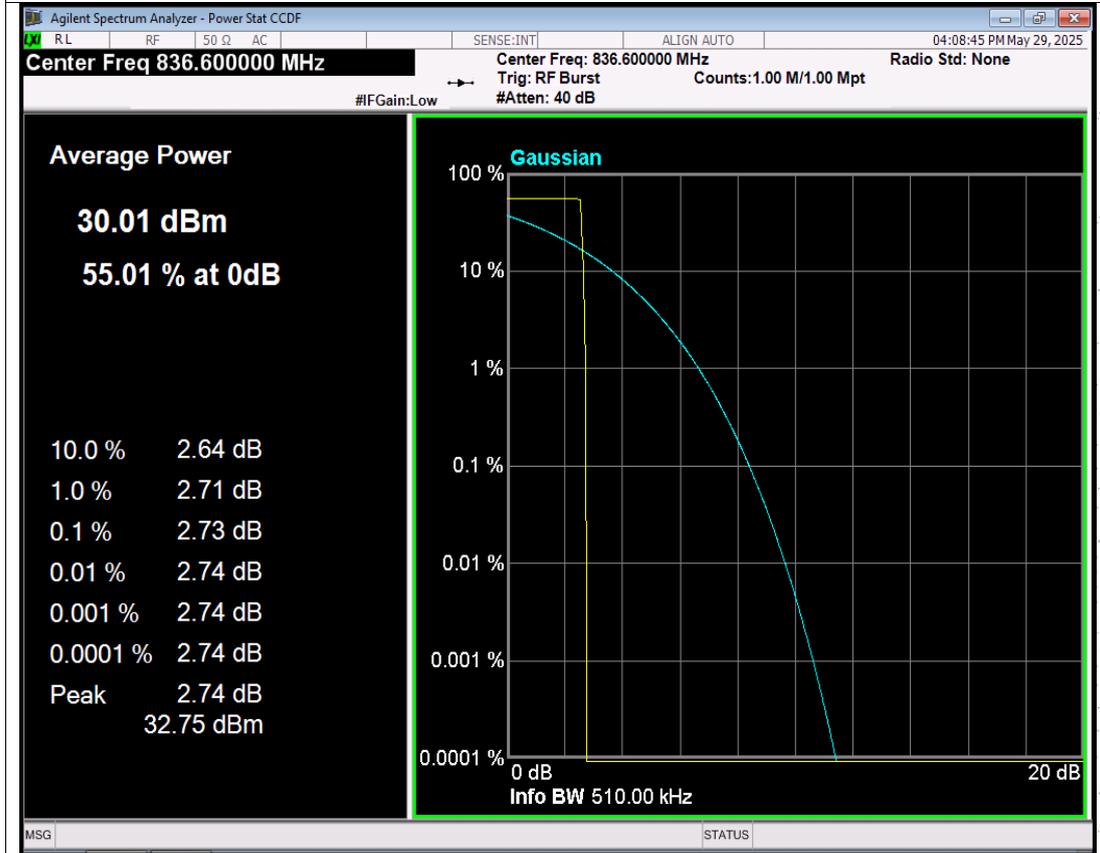
GPRS1900 Channel=661 NVNT



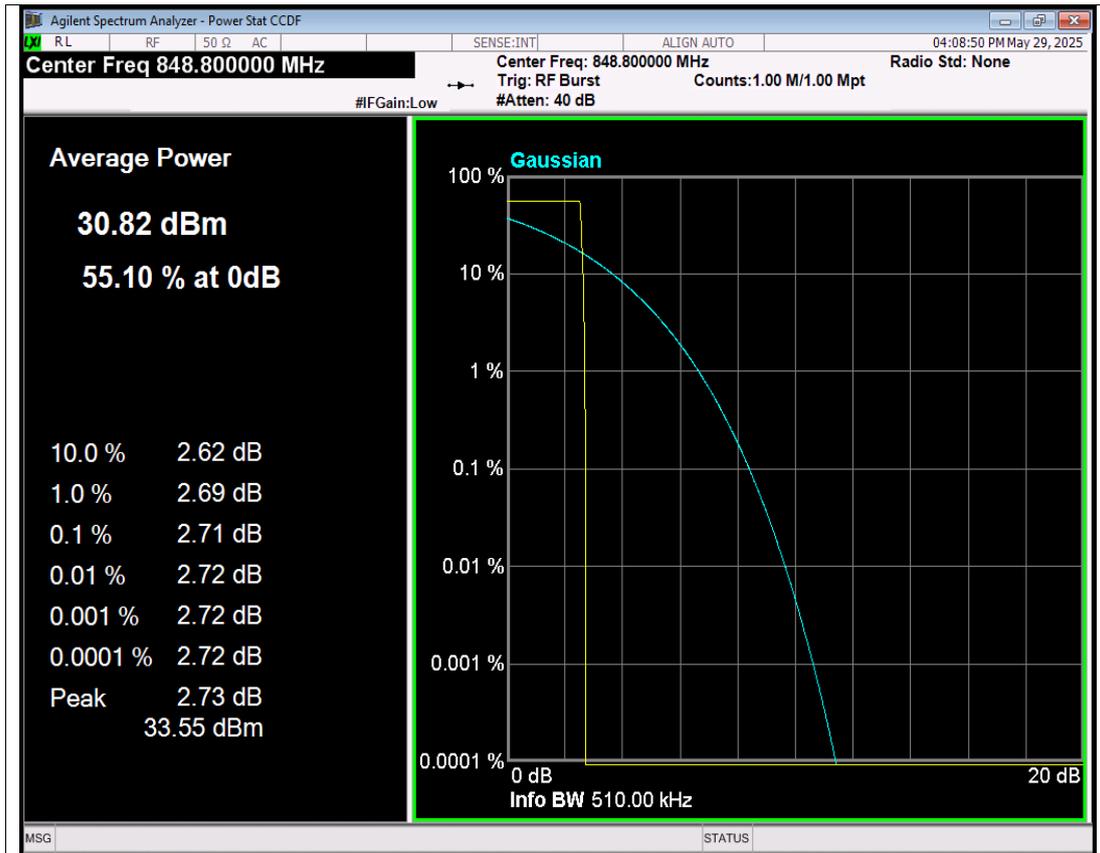
GPRS1900 Channel=810 NVNT



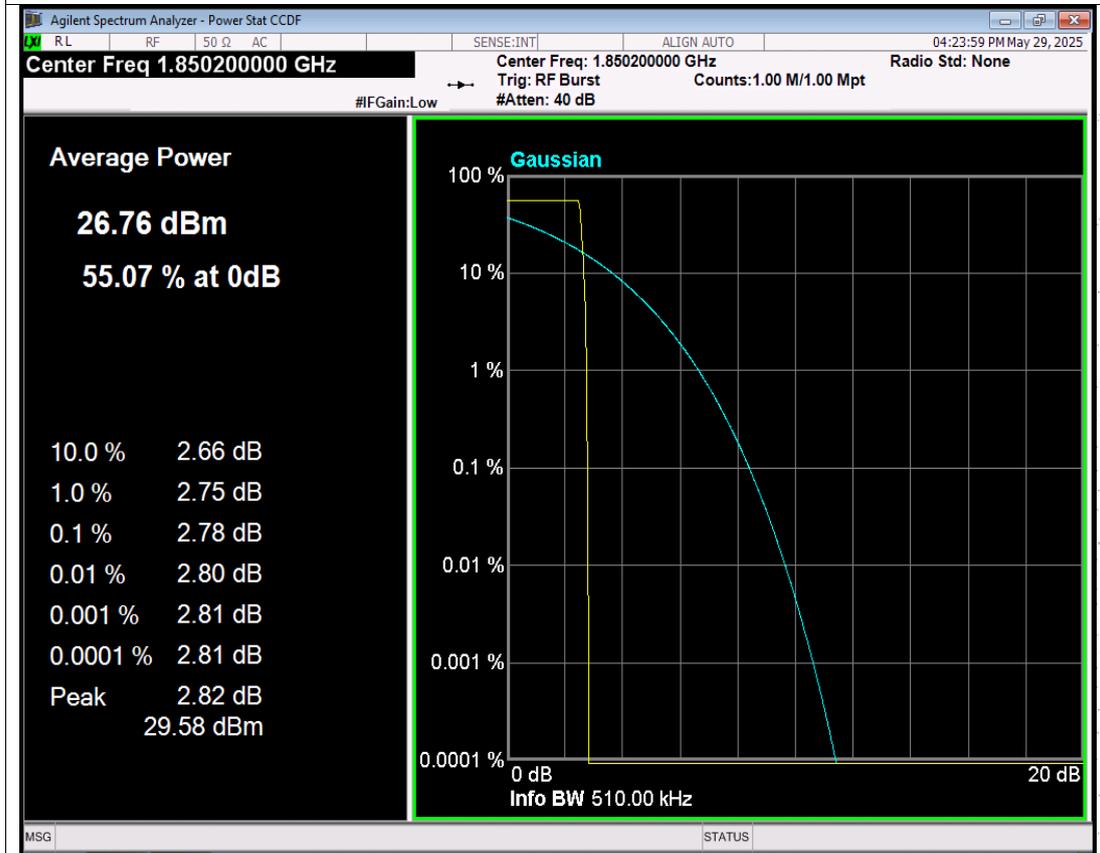
EGPRS850 Channel=128 NVNT



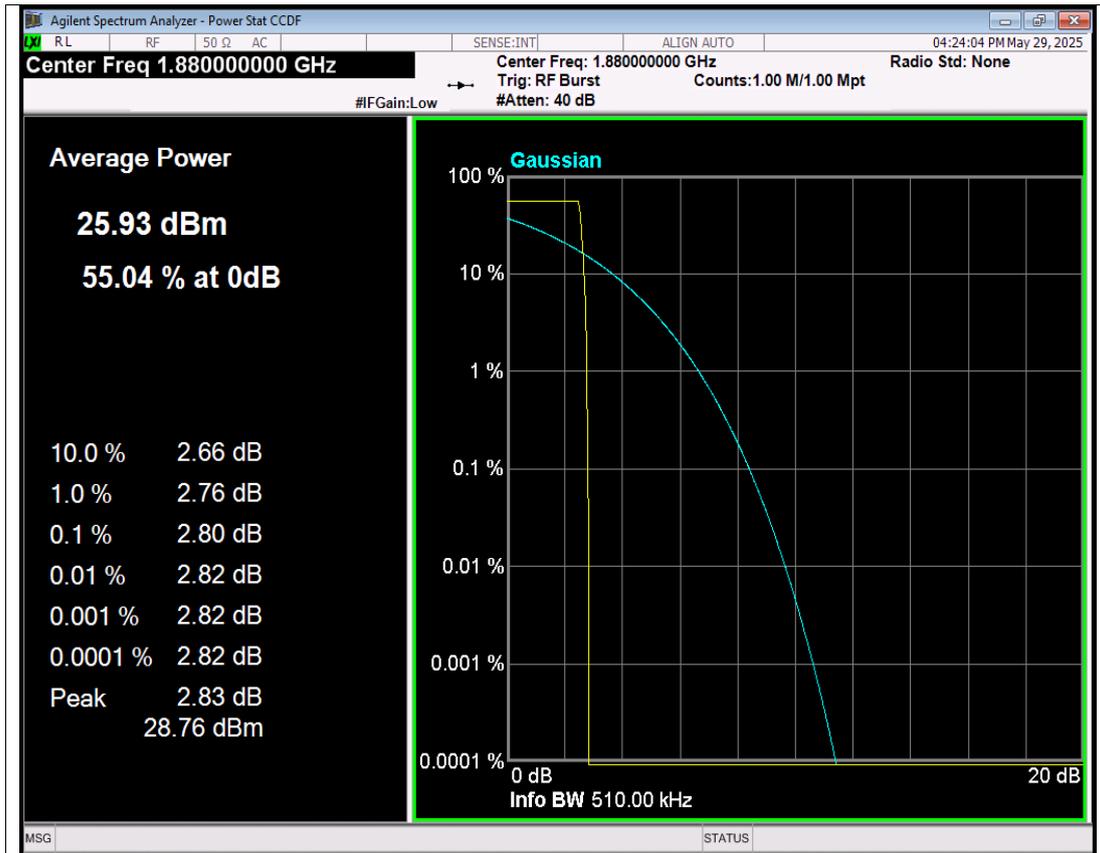
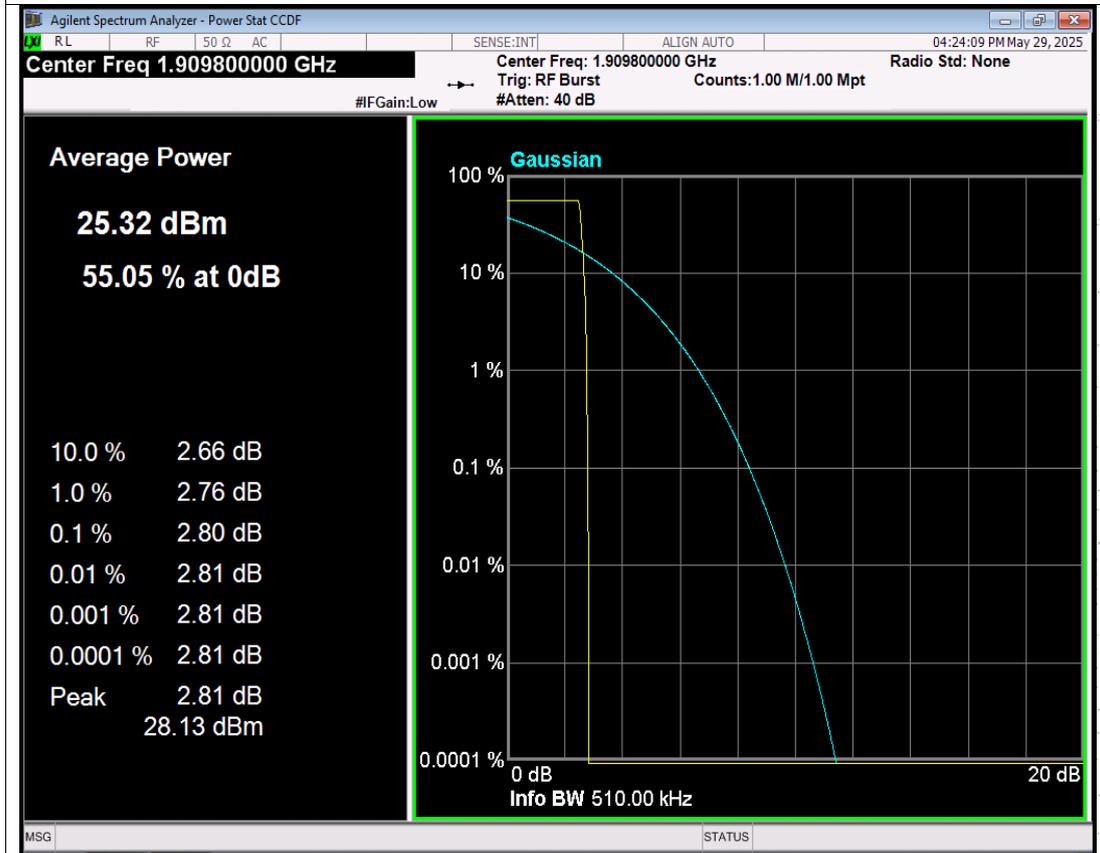
EGPRS850 Channel=190 NVNT



EGPRS850 Channel=251 NVNT

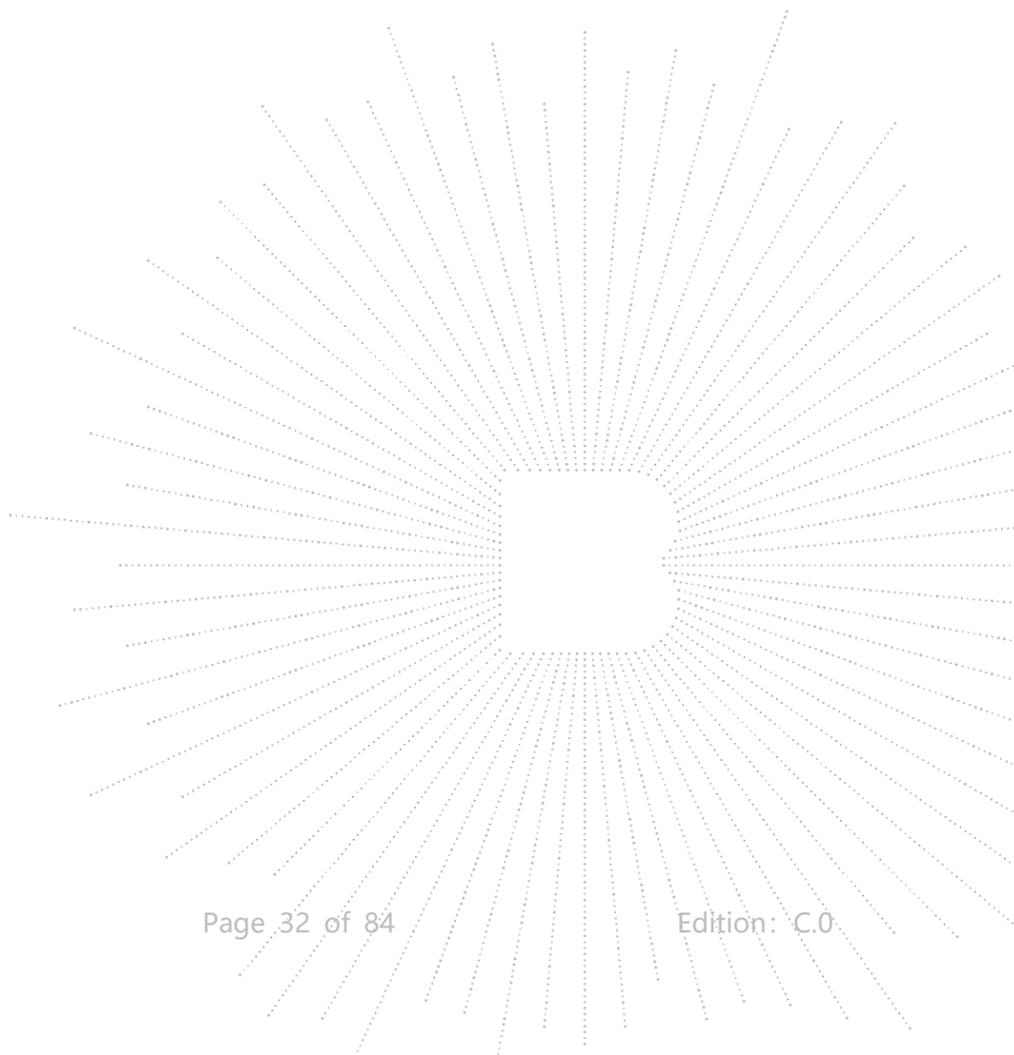


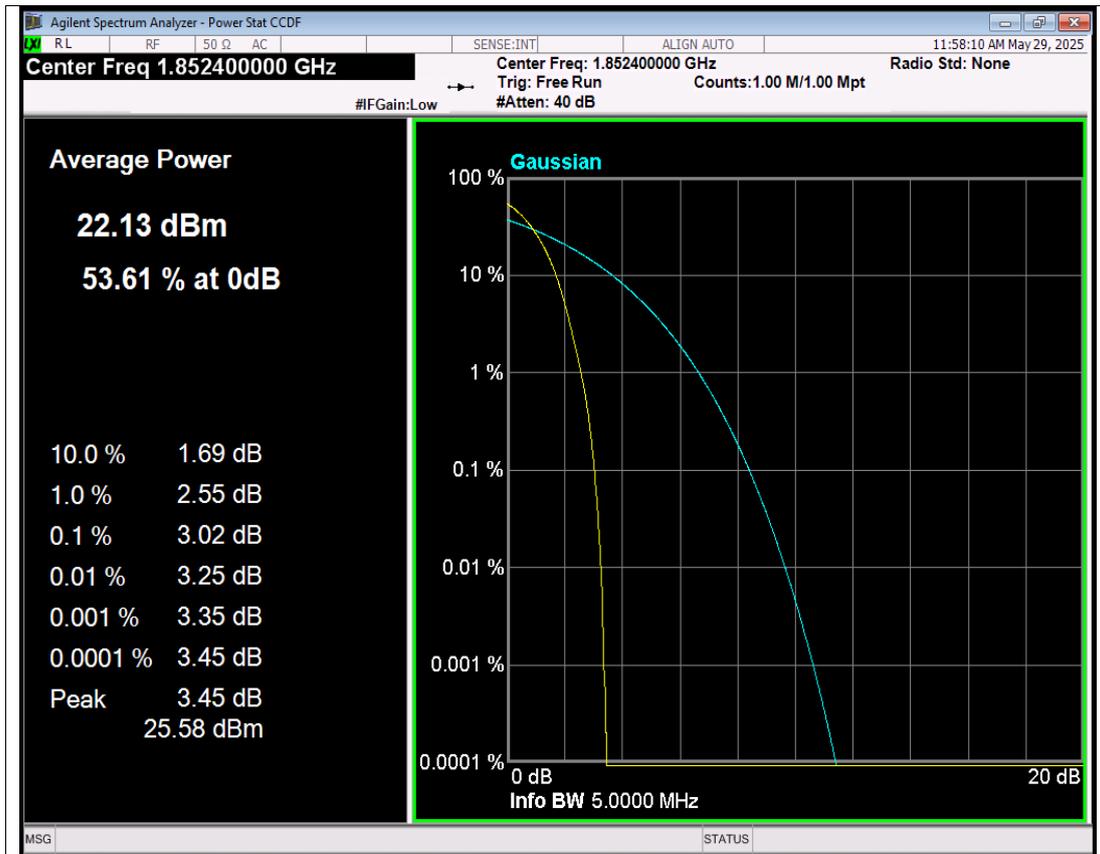
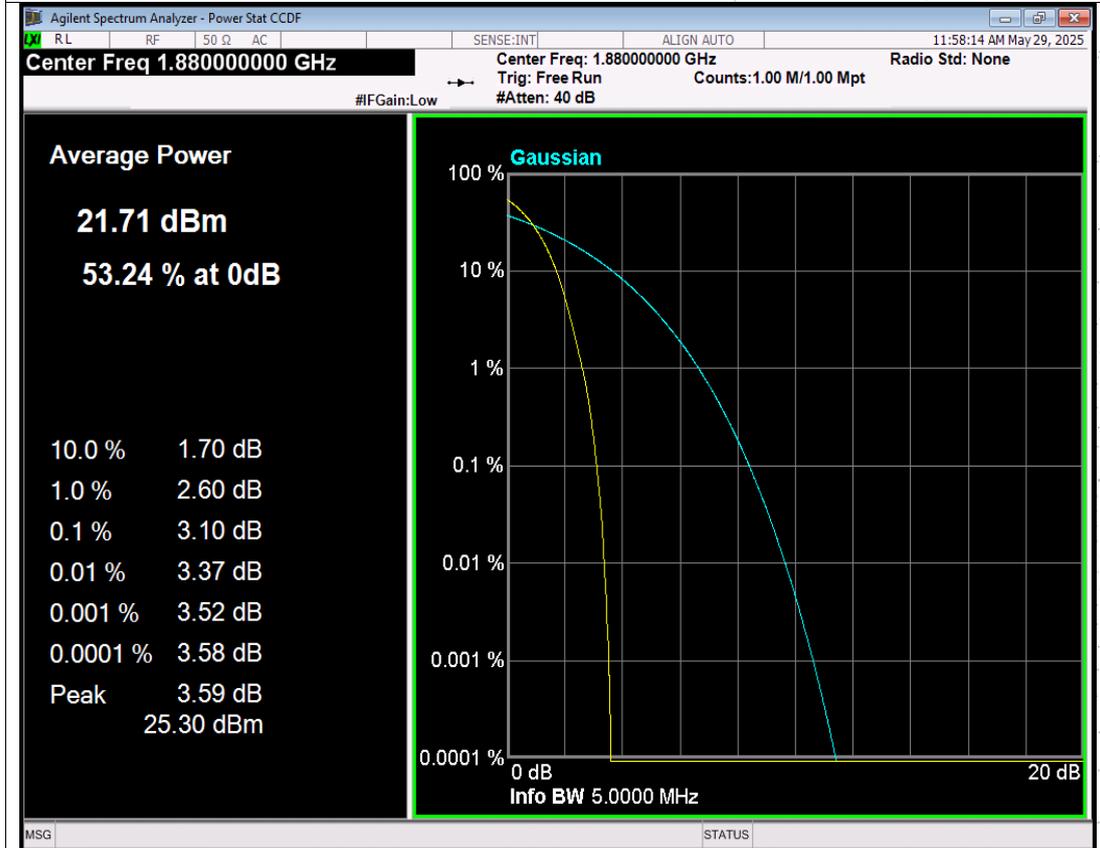
EGPRS1900 Channel=512 NVNT

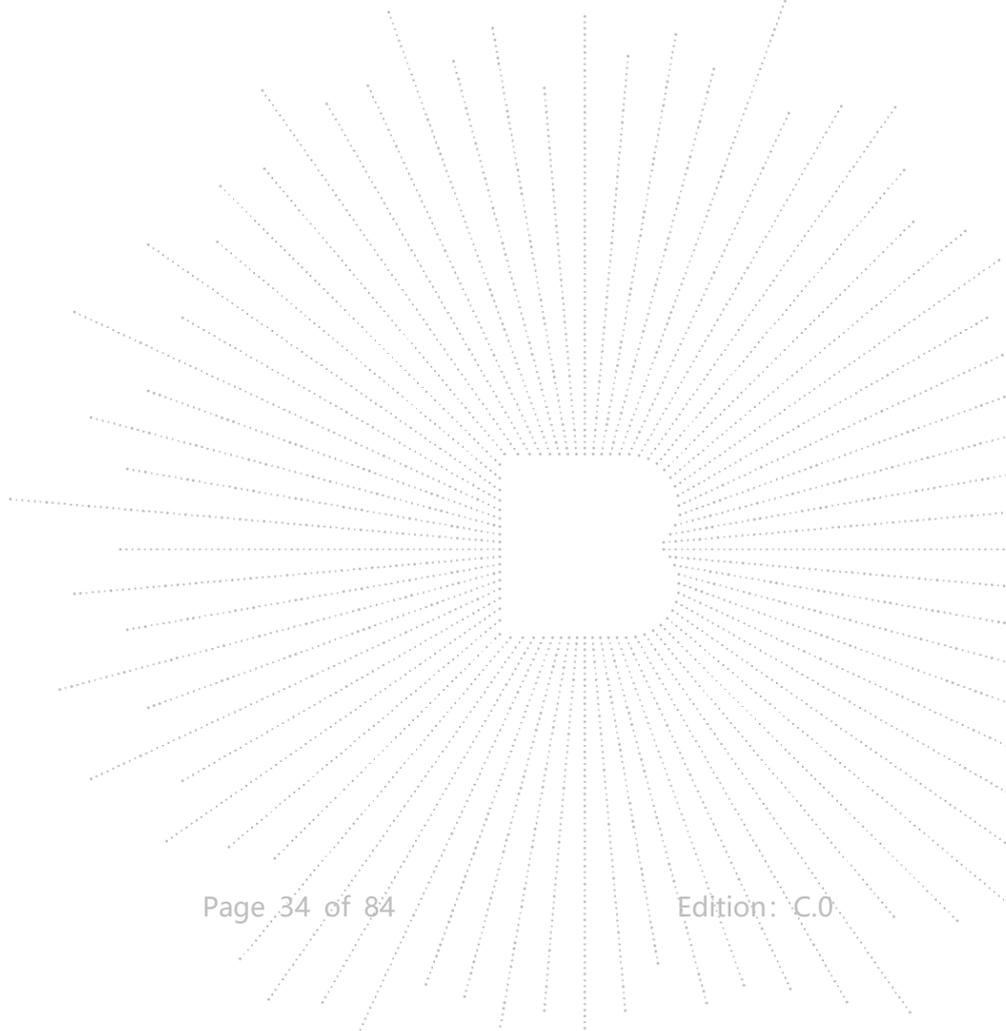
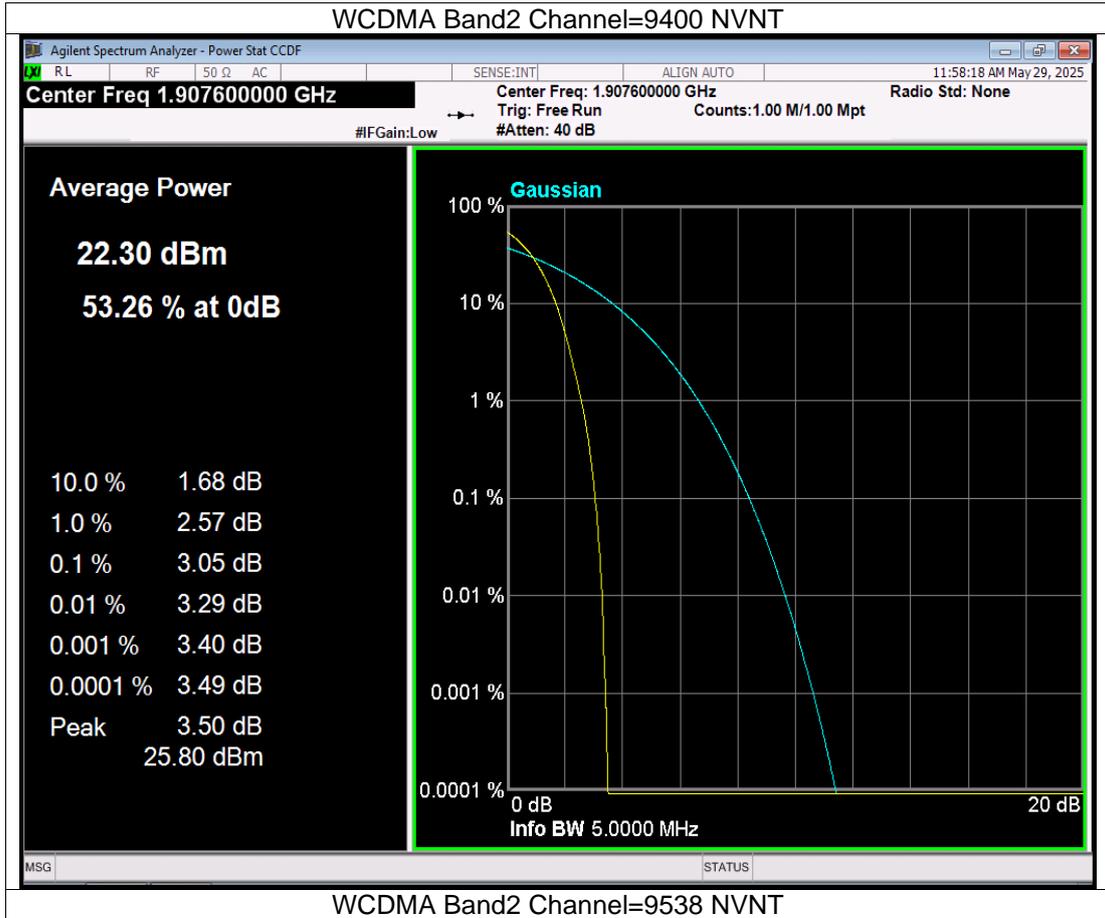

EGPRS1900 Channel=661 NVNT

EGPRS1900 Channel=810 NVNT

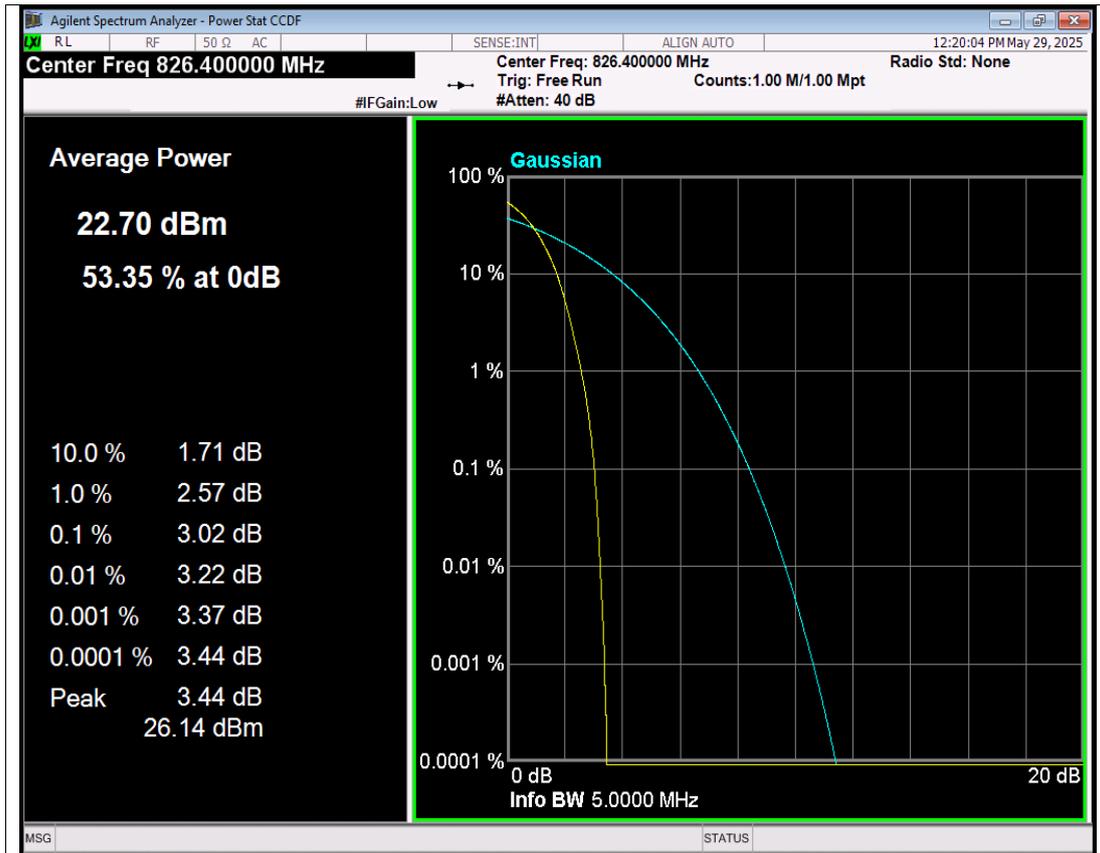
Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
WCDMA Band2	9262	1852.4	3.02	13	PASS
WCDMA Band2	9400	1880	3.10	13	PASS
WCDMA Band2	9538	1907.6	3.05	13	PASS
WCDMA Band5	4132	826.4	3.02	13	PASS
WCDMA Band5	4182	836.4	3.13	13	PASS
WCDMA Band5	4233	846.6	3.19	13	PASS

Note: In WCDMA, RMC, HSDPA and HSUPA all three tests only reflect the worst mode RMC.

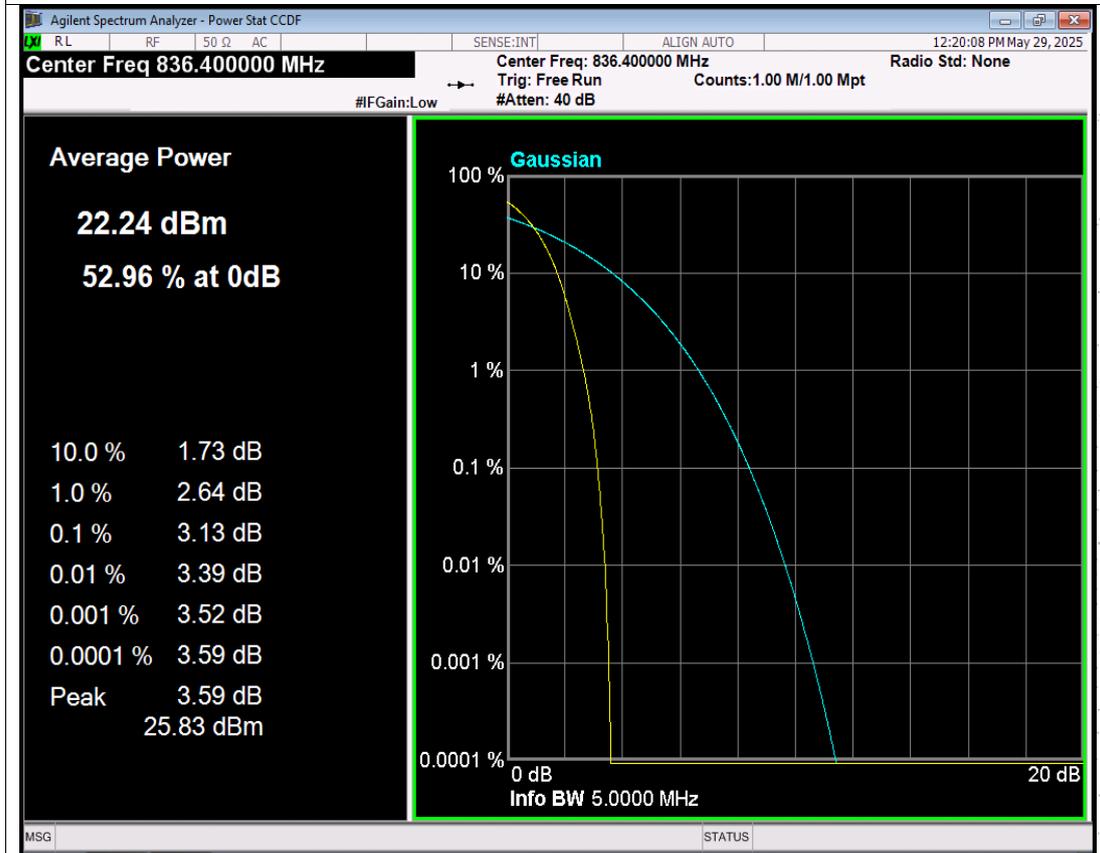



WCDMA Band2 Channel=9262 NVNT


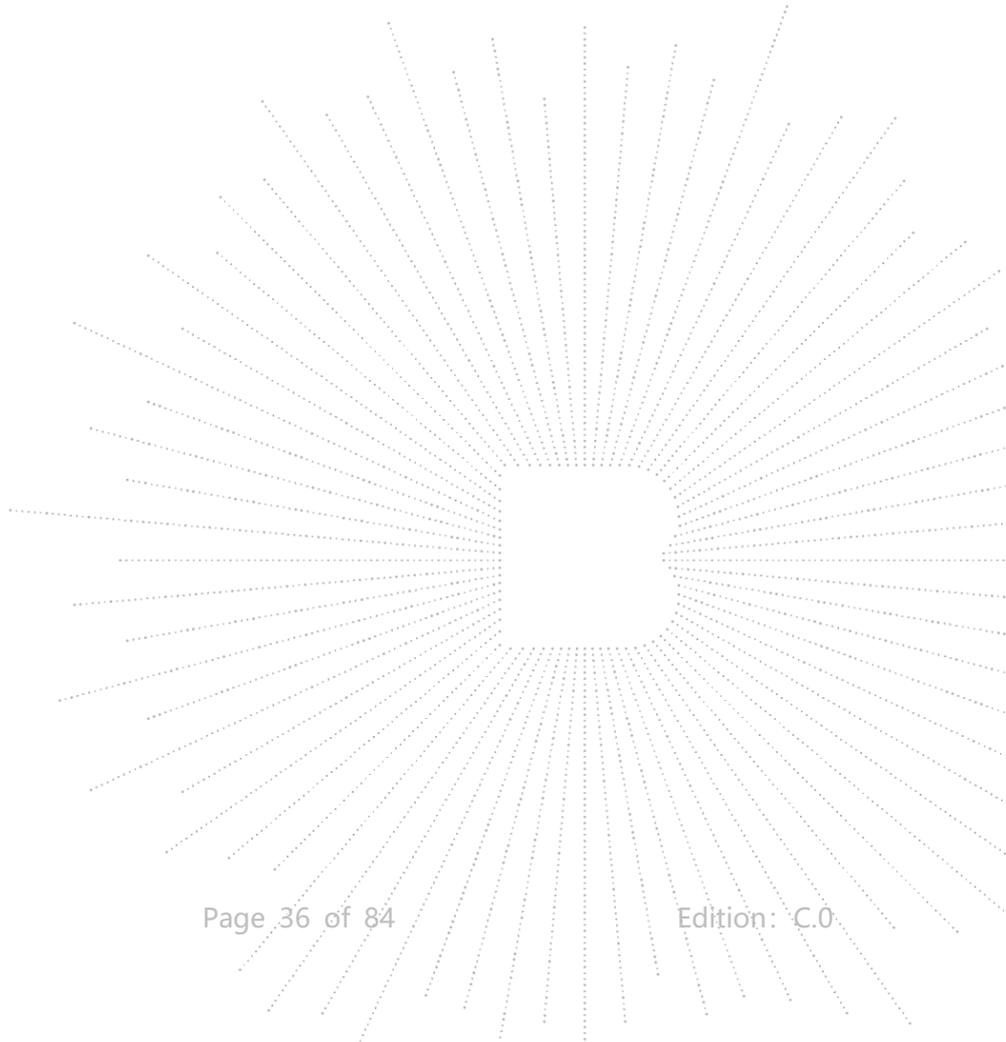
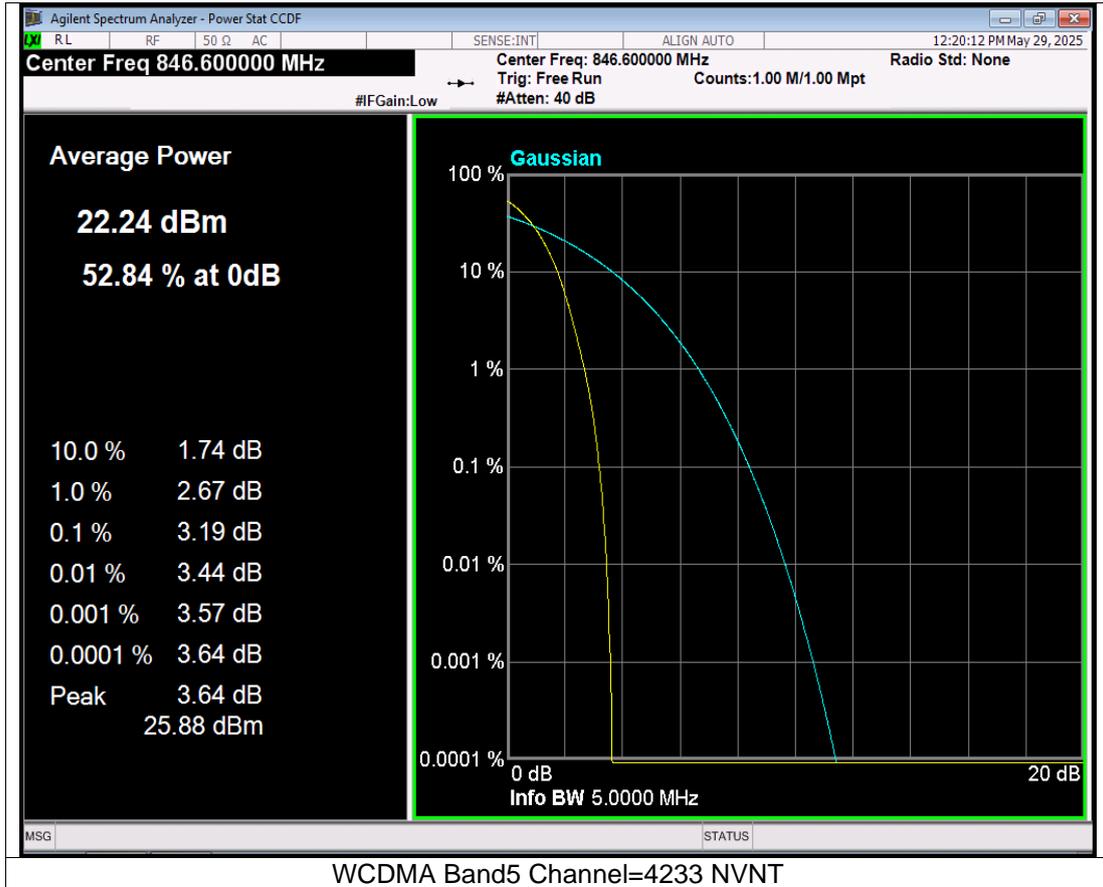




WCDMA Band5 Channel=4132 NVNT

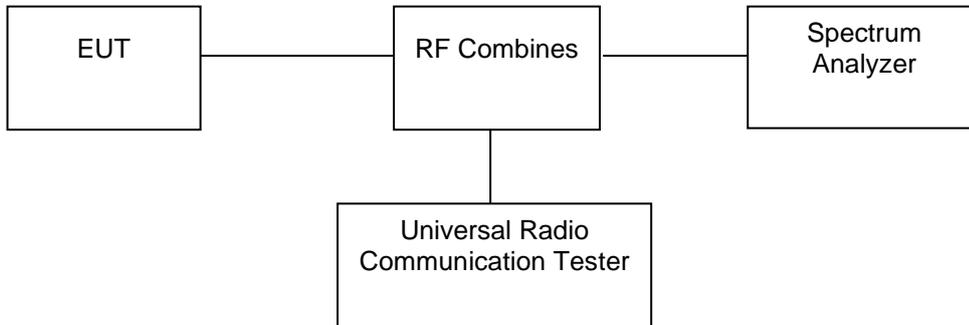


WCDMA Band5 Channel=4182 NVNT



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.

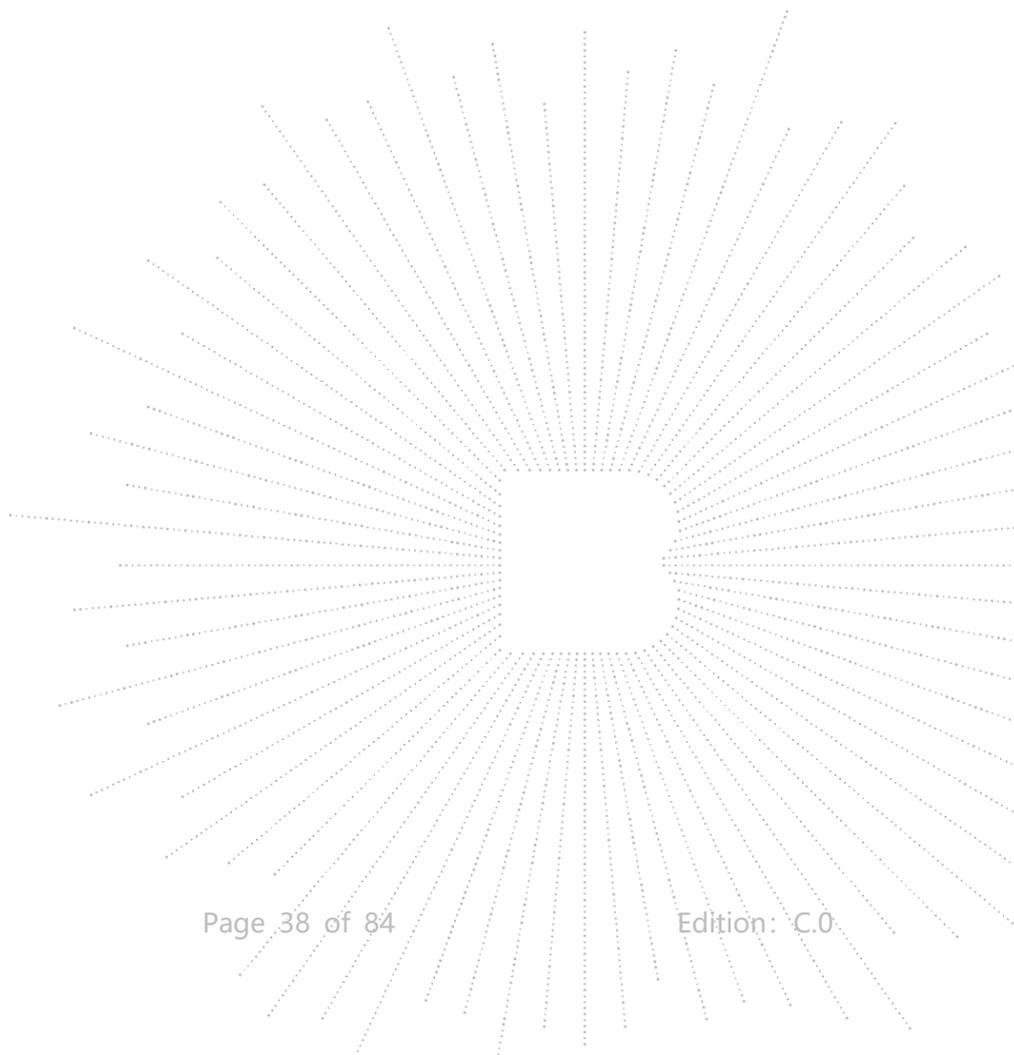
According to §27.53, The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

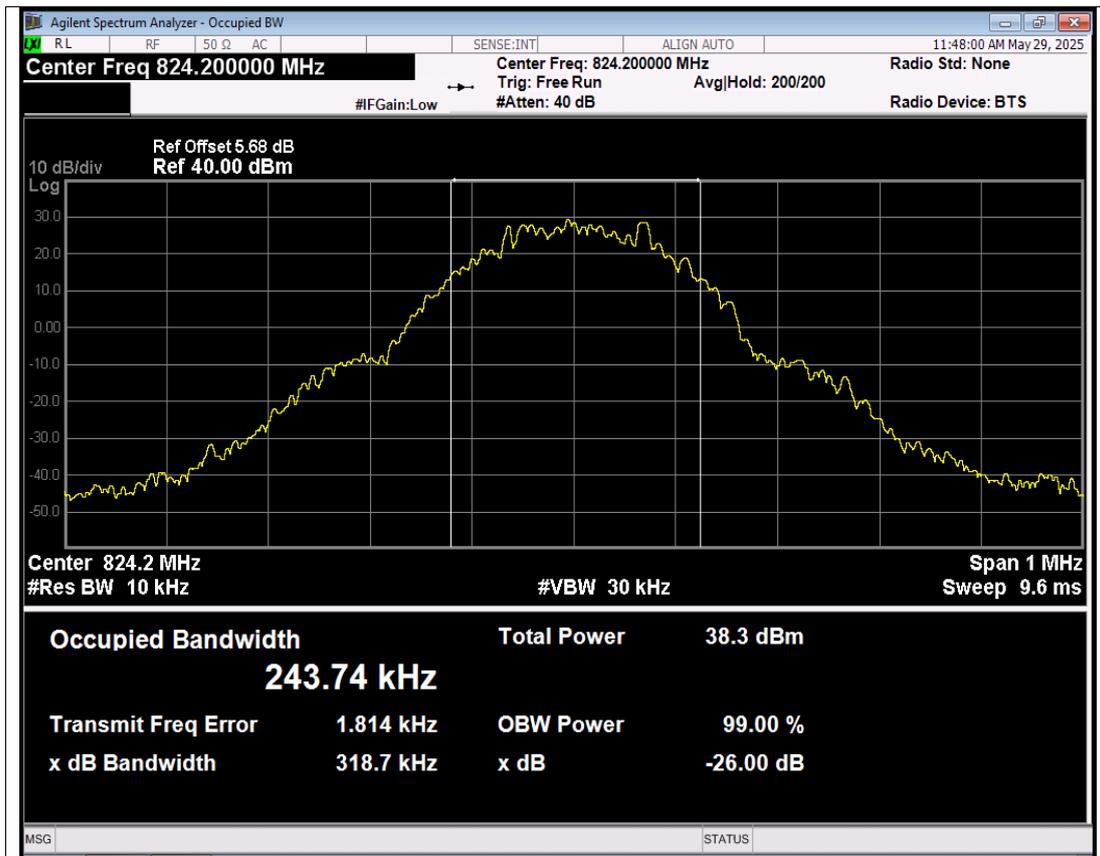
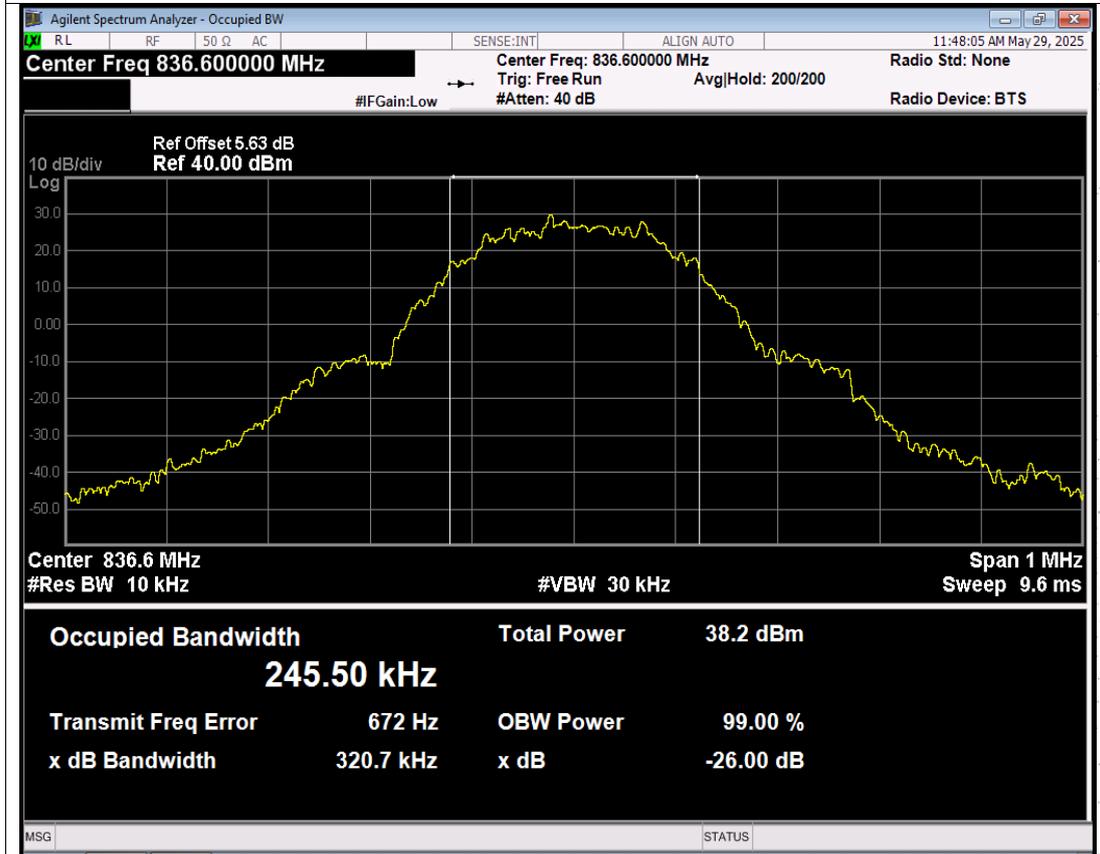
8.3 Test procedure

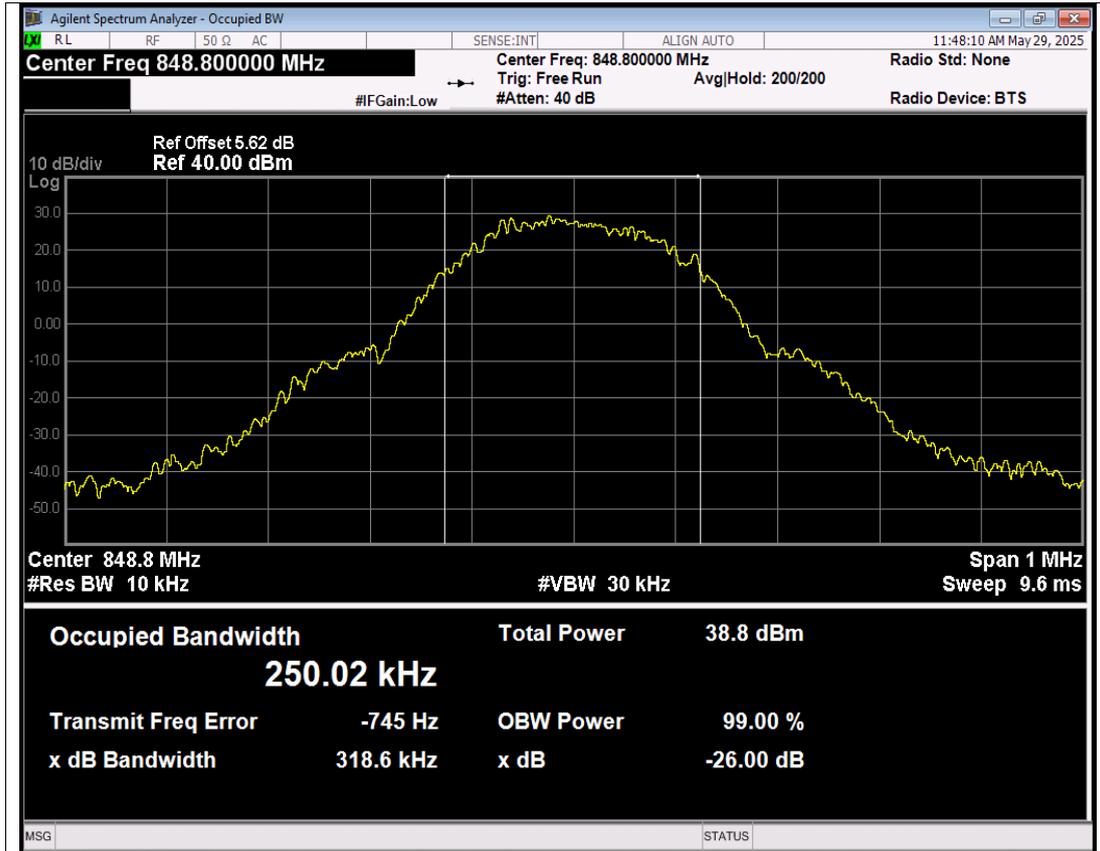
The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 10kHz for GSM mode and 100kHz for WCDMA mode, VBW shall be at least 3 times the RBW, and the 26dB bandwidth was recorded.

8.4 Test Result

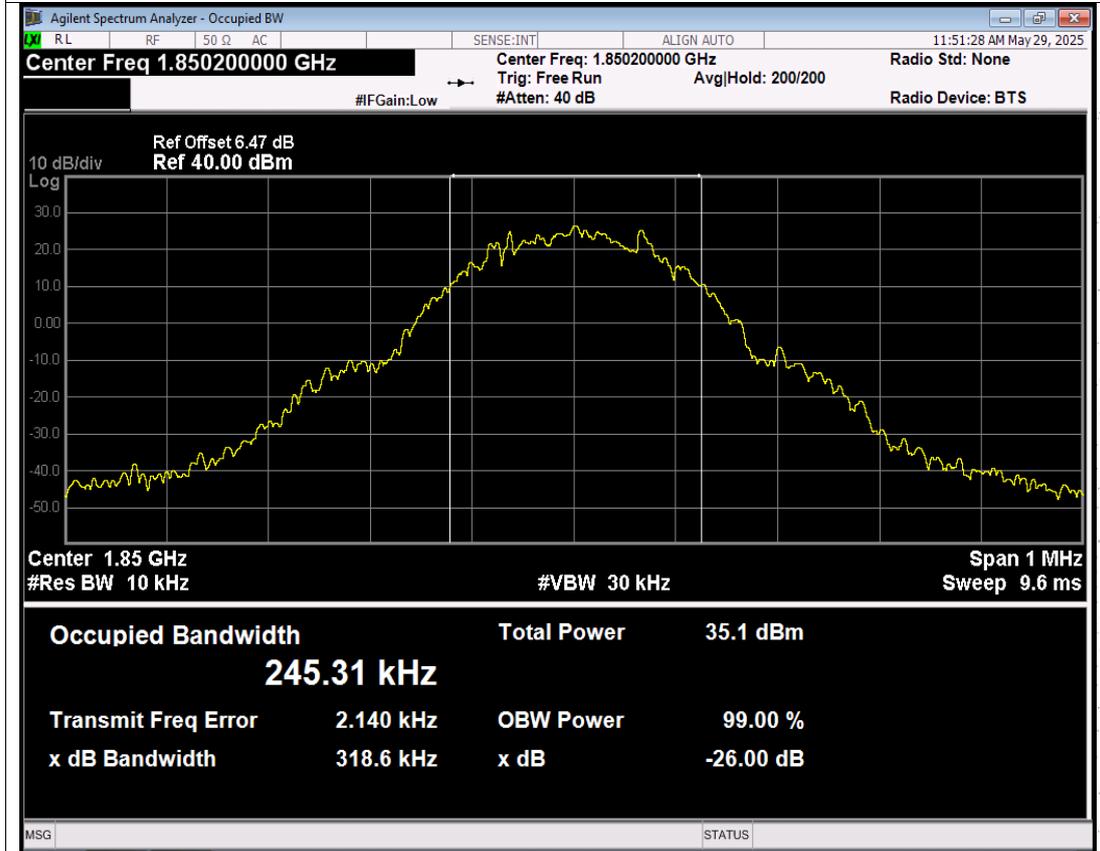
Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM850	128	824.2	243.739	318.727	PASS
GSM850	190	836.6	245.502	320.732	PASS
GSM850	251	848.8	250.023	318.574	PASS
GSM1900	512	1850.2	245.314	318.617	PASS
GSM1900	661	1880	247.132	314.587	PASS
GSM1900	810	1909.8	248.485	323.239	PASS
GPRS850	128	824.2	244.014	315.723	PASS
GPRS850	190	836.6	249.029	325.837	PASS
GPRS850	251	848.8	247.907	318.668	PASS
GPRS1900	512	1850.2	252.173	325.965	PASS
GPRS1900	661	1880	249.479	317.050	PASS
GPRS1900	810	1909.8	249.064	319.173	PASS
EGPRS850	128	824.2	250.879	315.457	PASS
EGPRS850	190	836.6	244.669	316.685	PASS
EGPRS850	251	848.8	246.787	313.133	PASS
EGPRS1900	512	1850.2	247.267	317.049	PASS
EGPRS1900	661	1880	246.647	319.531	PASS
EGPRS1900	810	1909.8	246.020	319.285	PASS



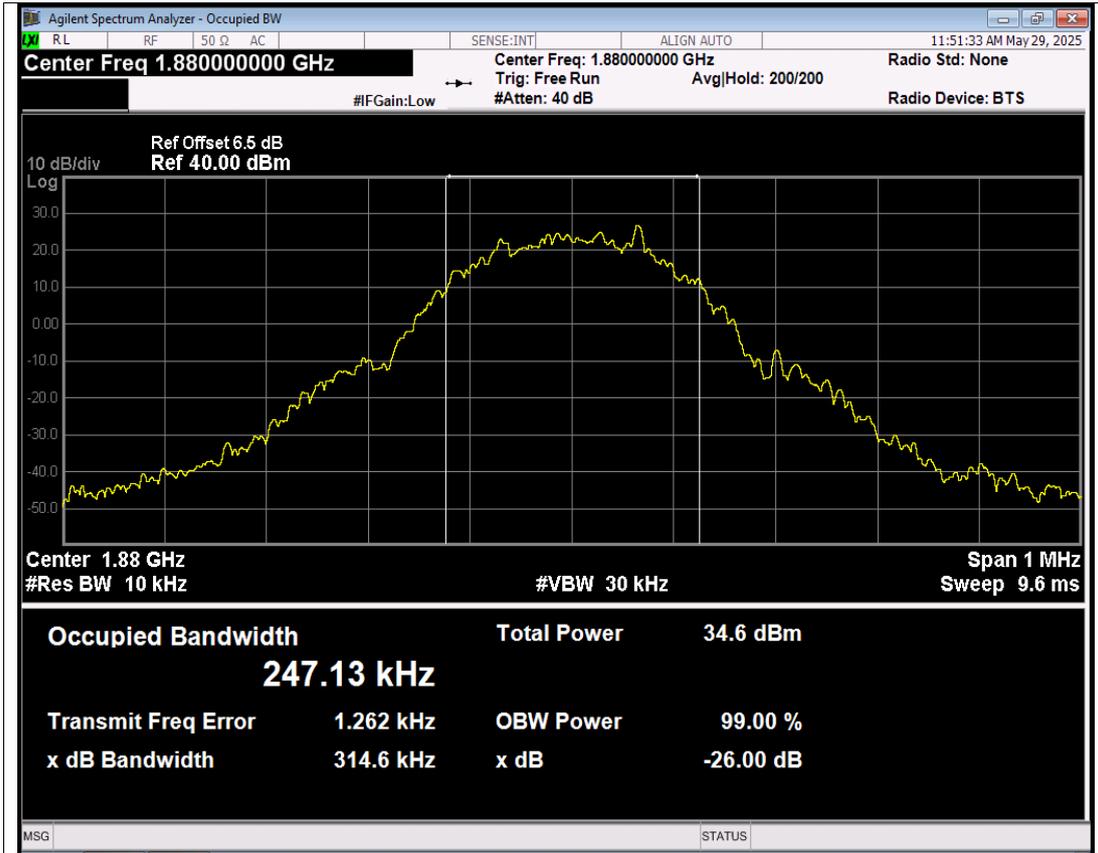
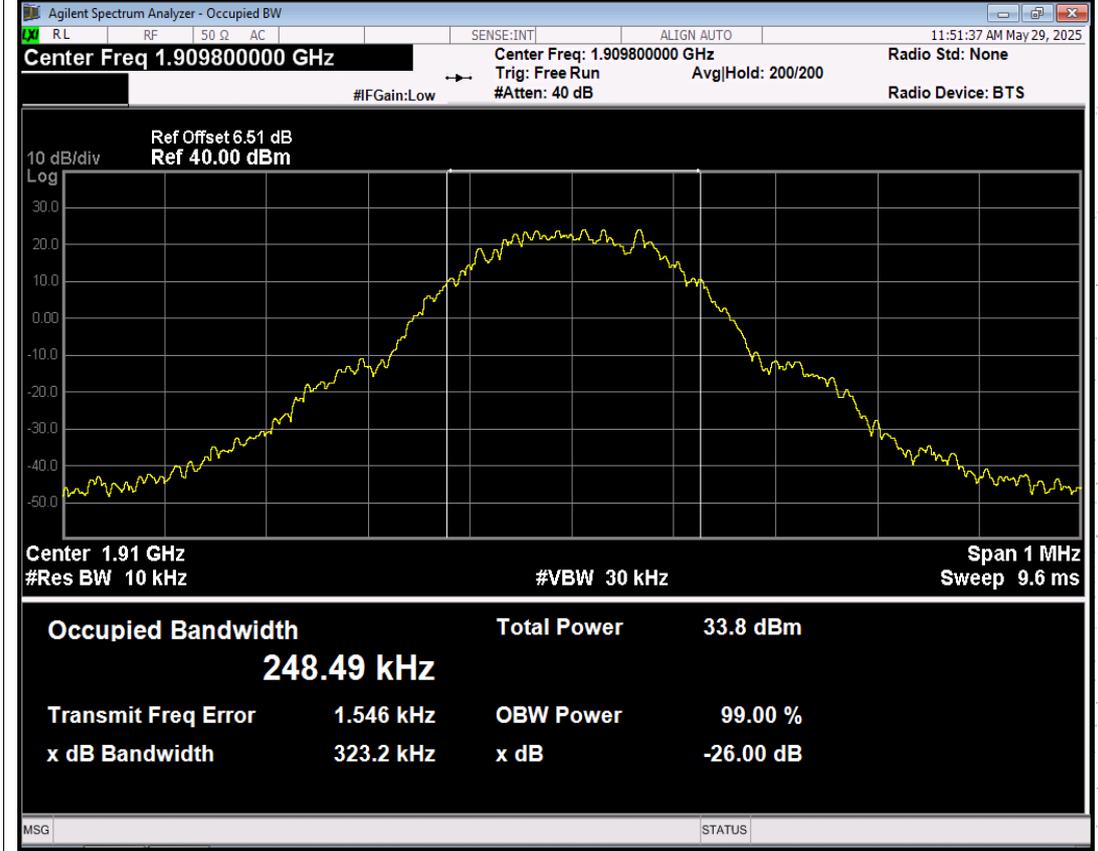

GSM850 Channel=128 NVNT

GSM850 Channel=190 NVNT

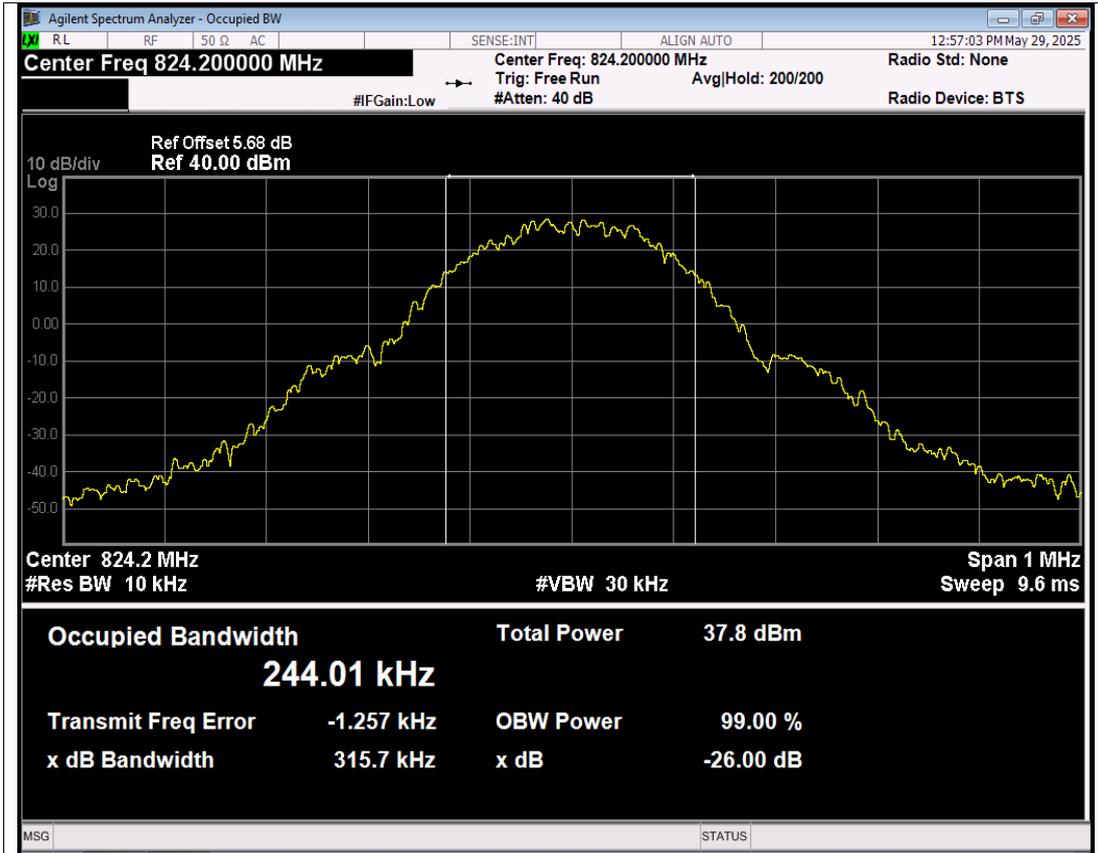
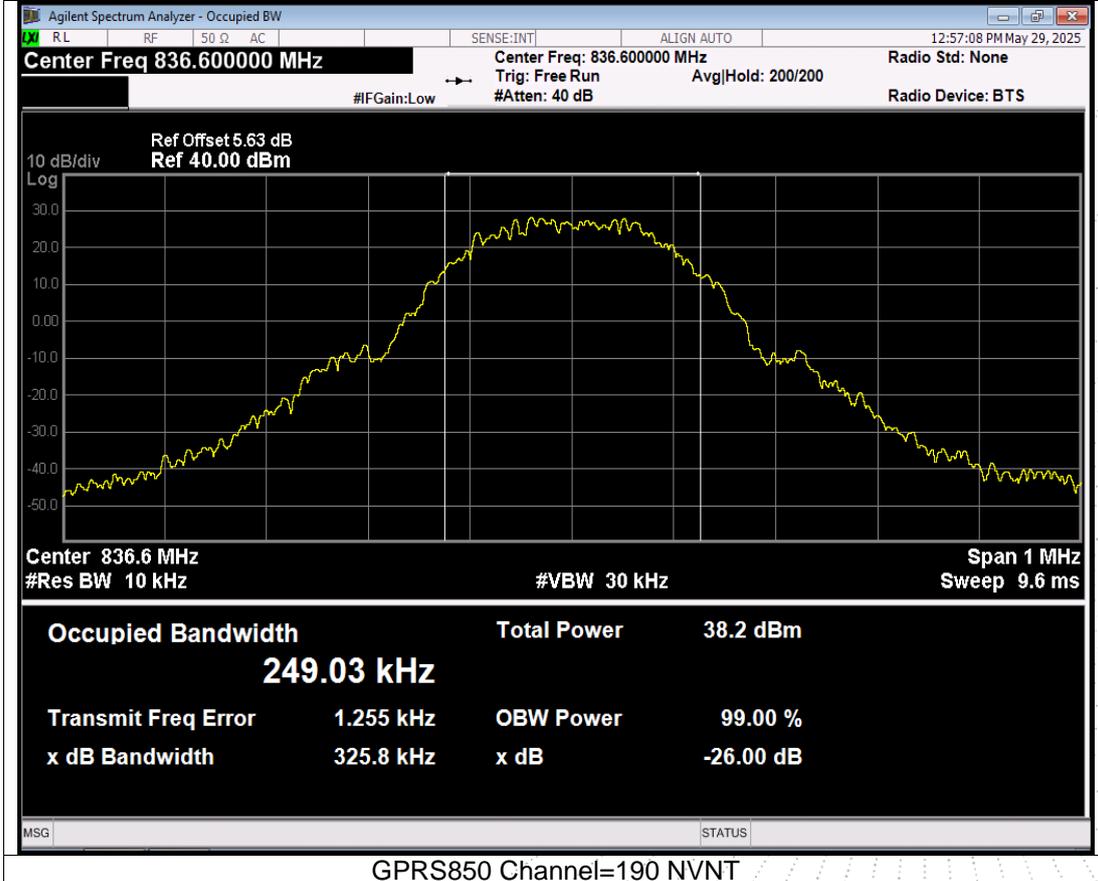


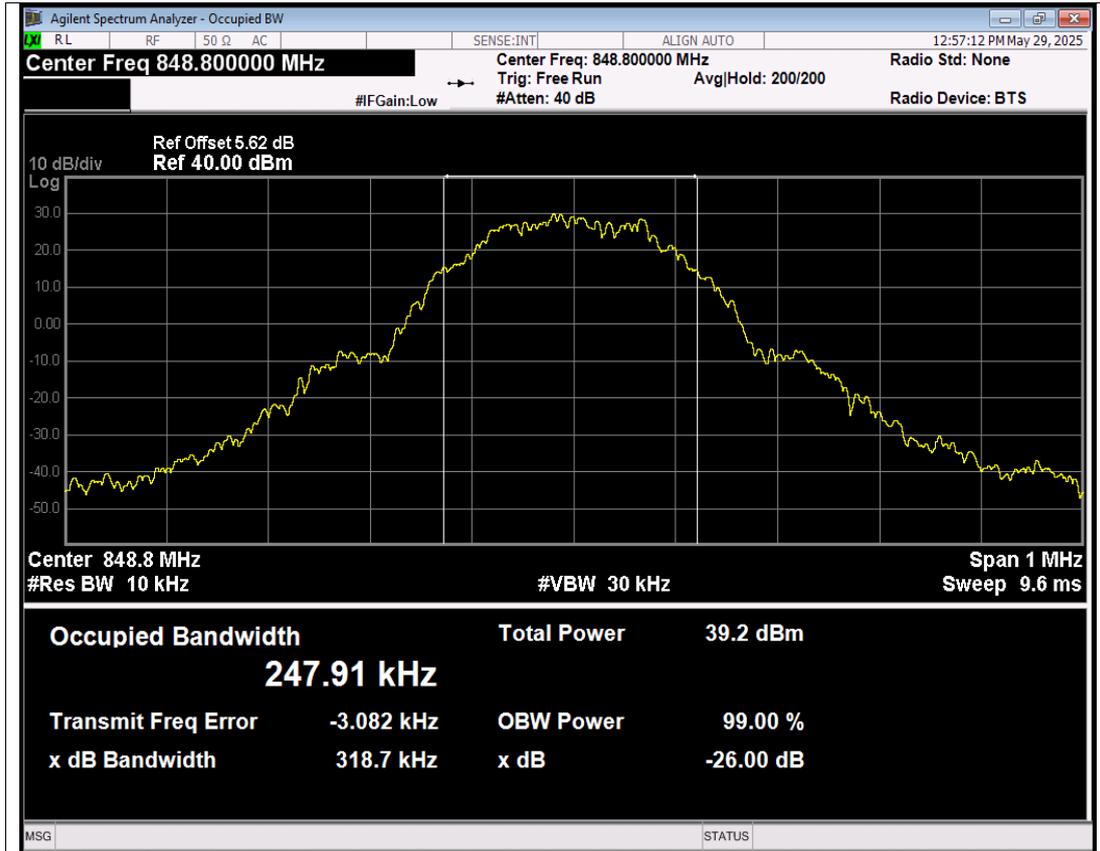
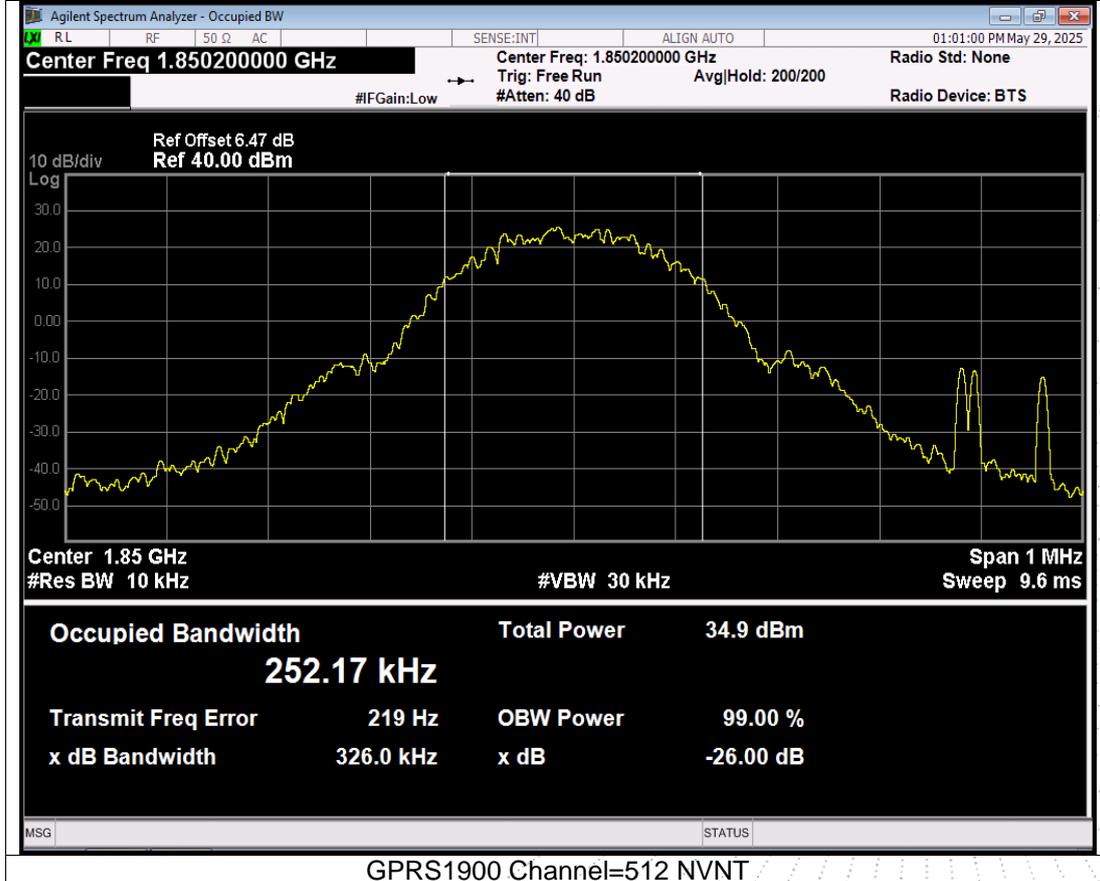
GSM850 Channel=251 NVNT

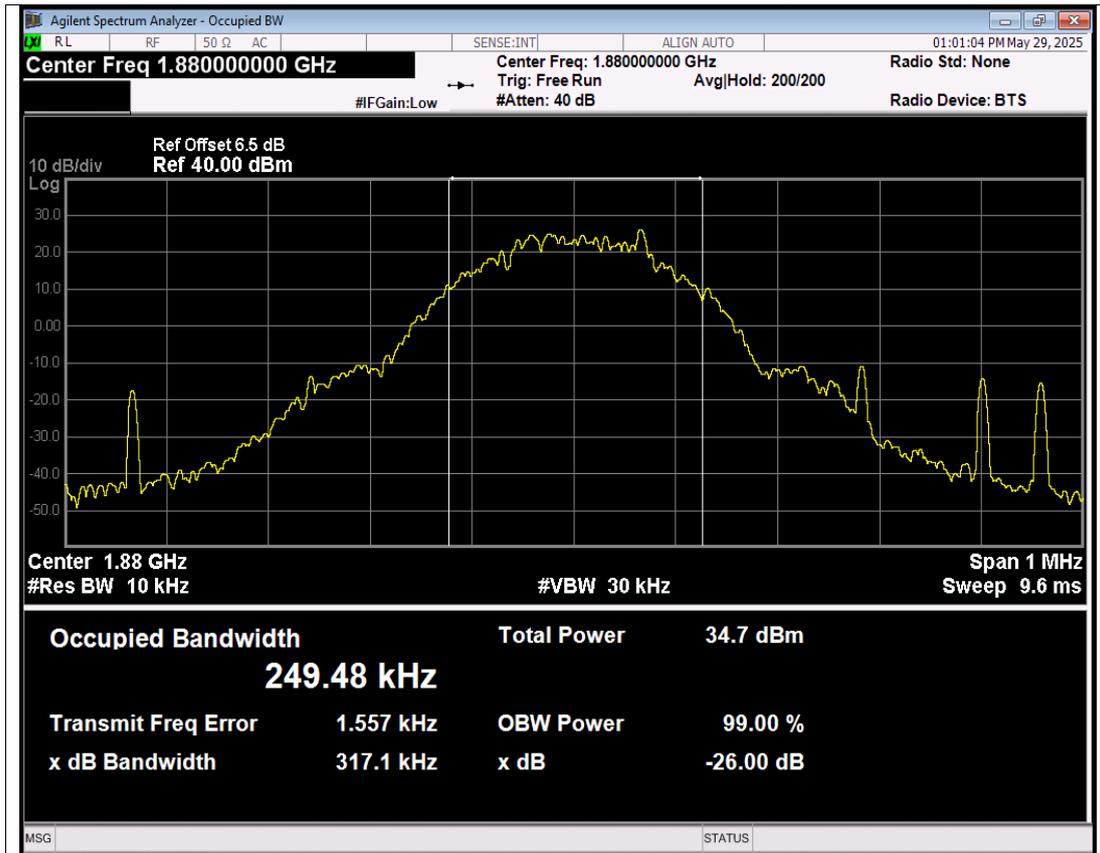
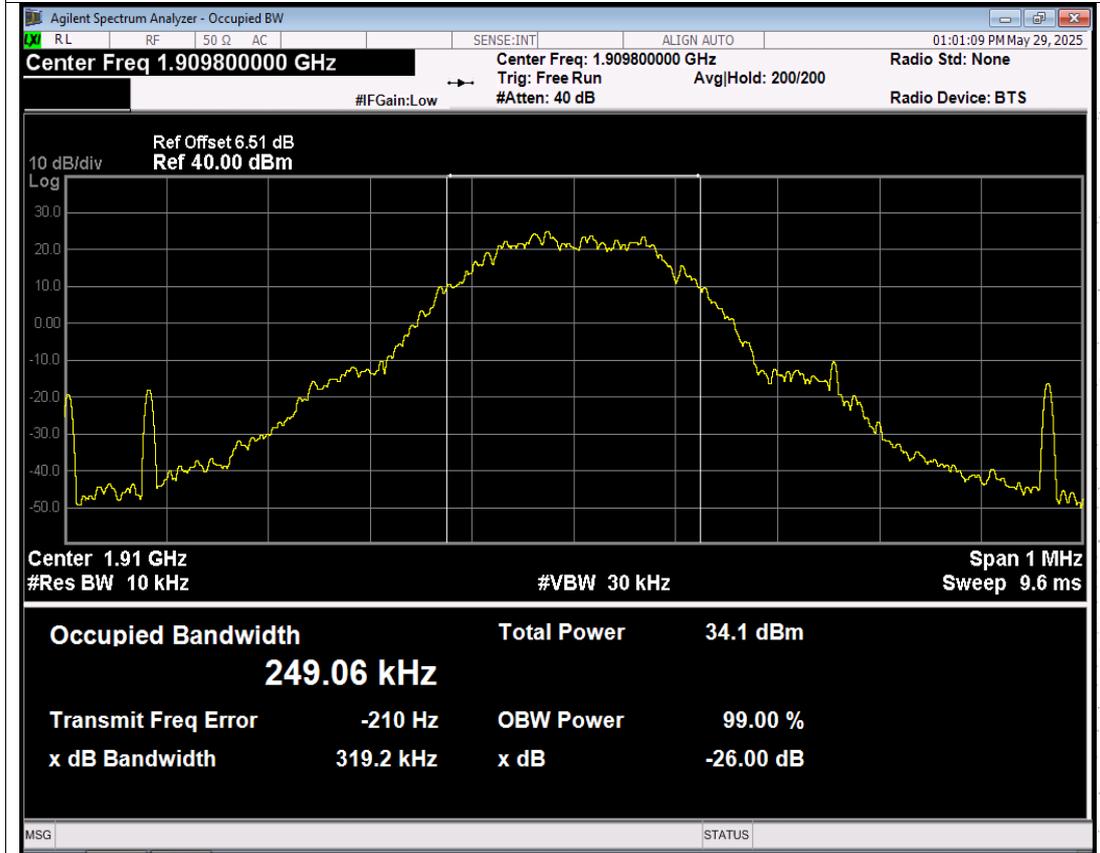


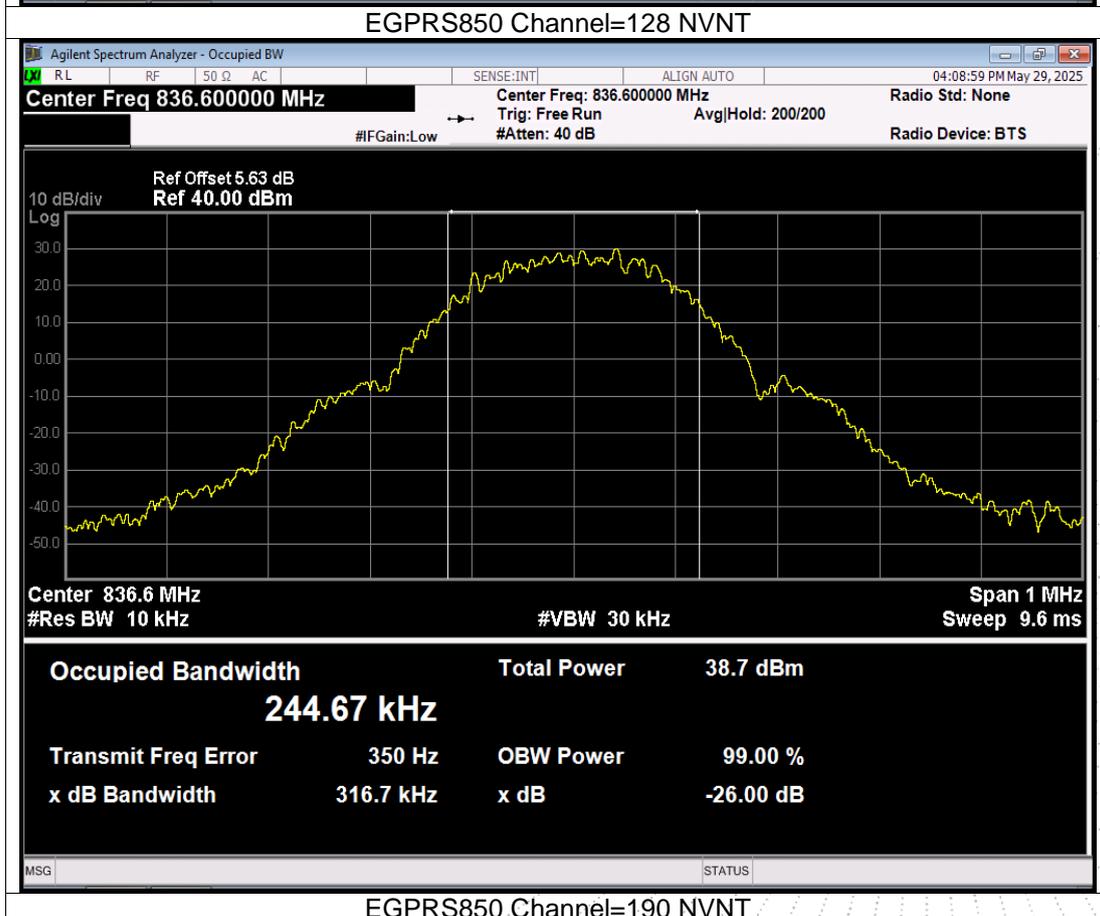
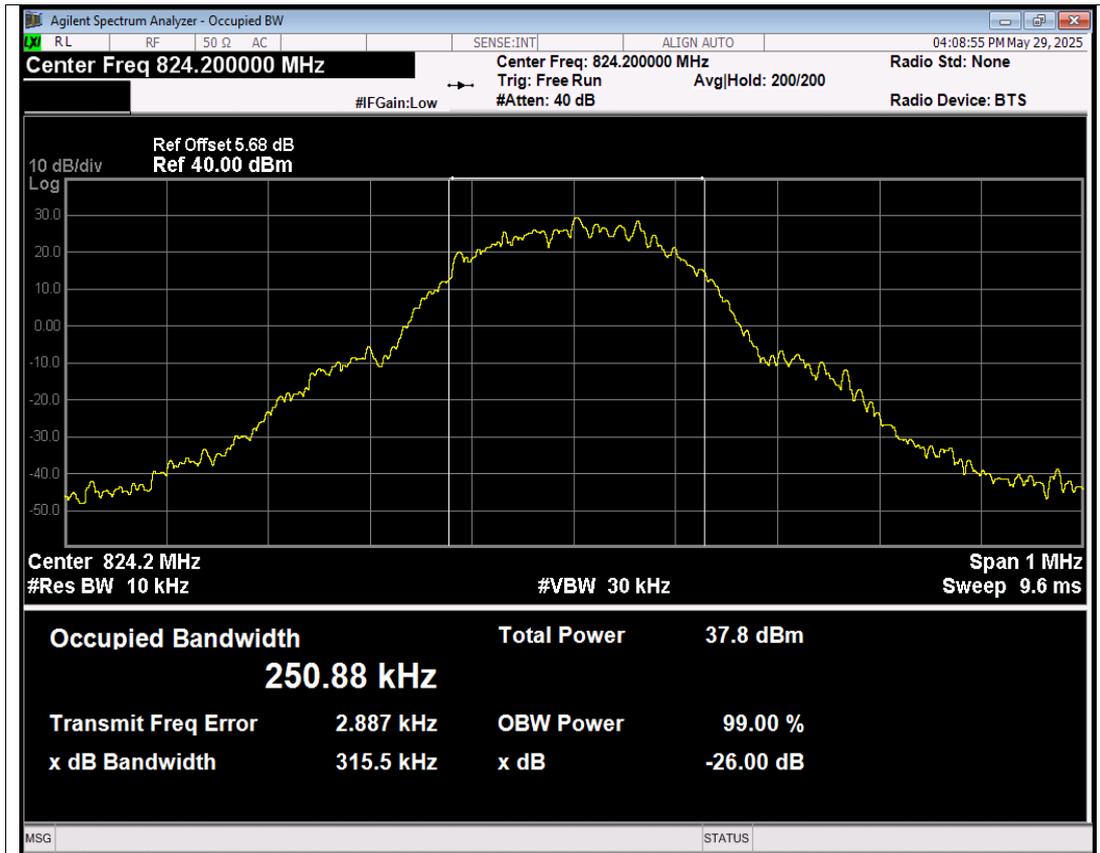
GSM1900 Channel=512 NVNT

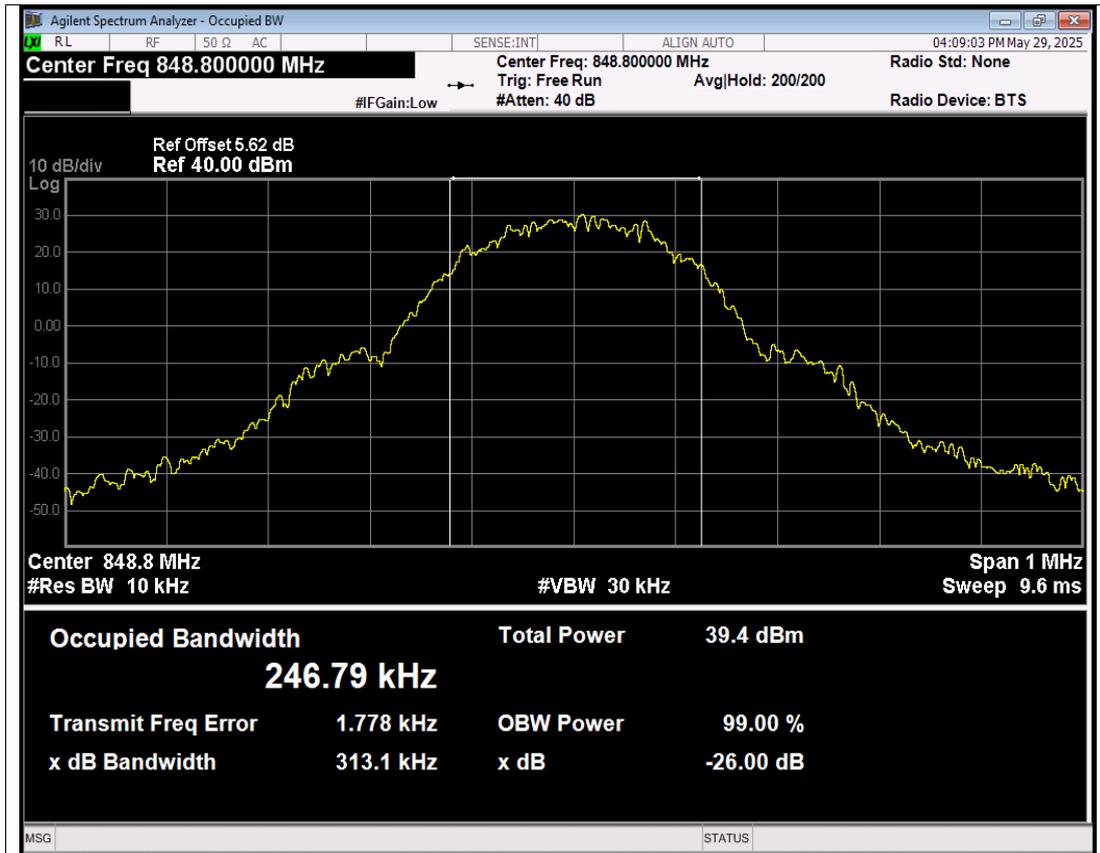
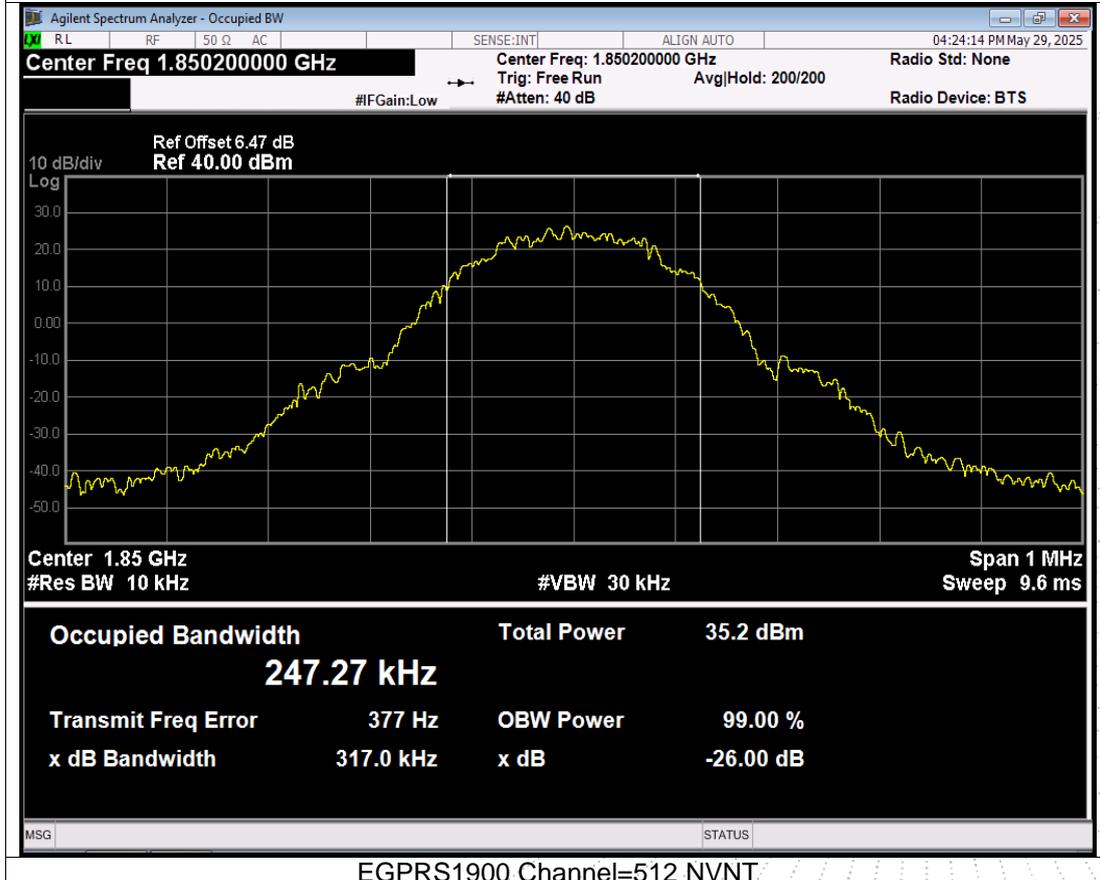

GSM1900 Channel=661 NVNT

GSM1900 Channel=810 NVNT

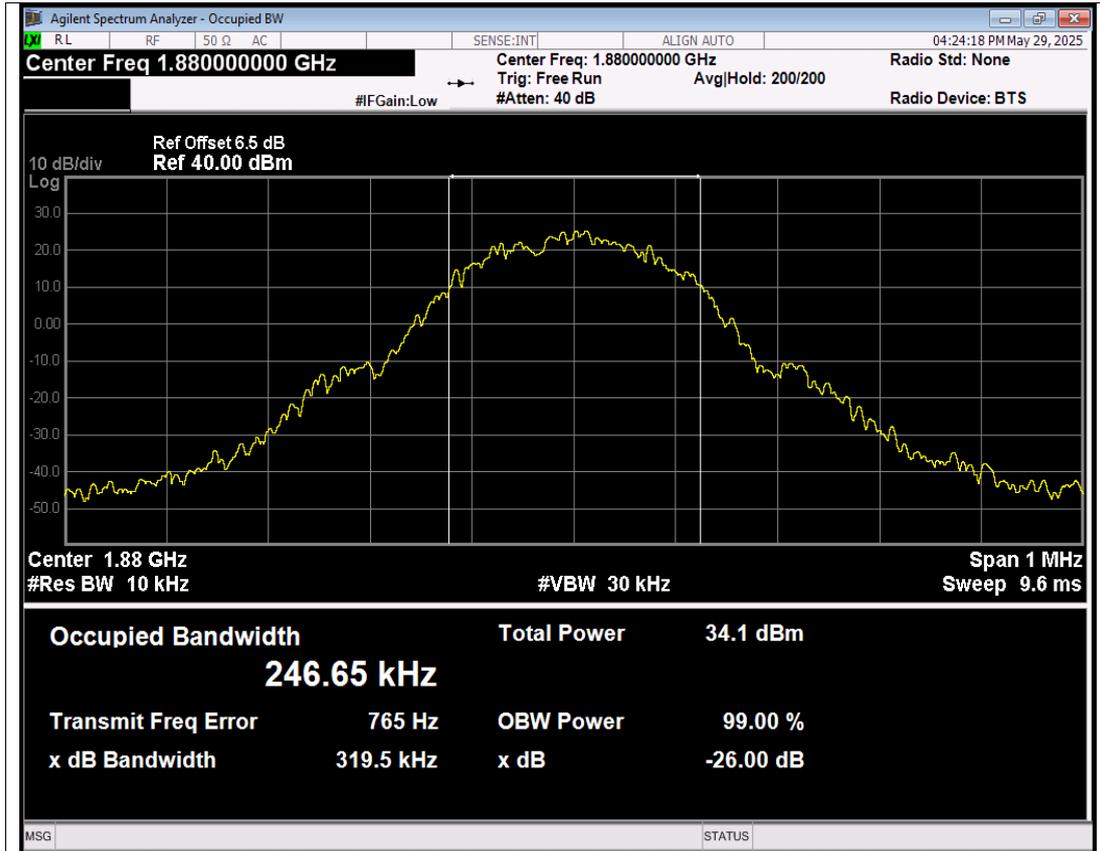

GPRS850 Channel=128 NVNT

GPRS850 Channel=190 NVNT


GPRS850 Channel=251 NVNT

GPRS1900 Channel=512 NVNT

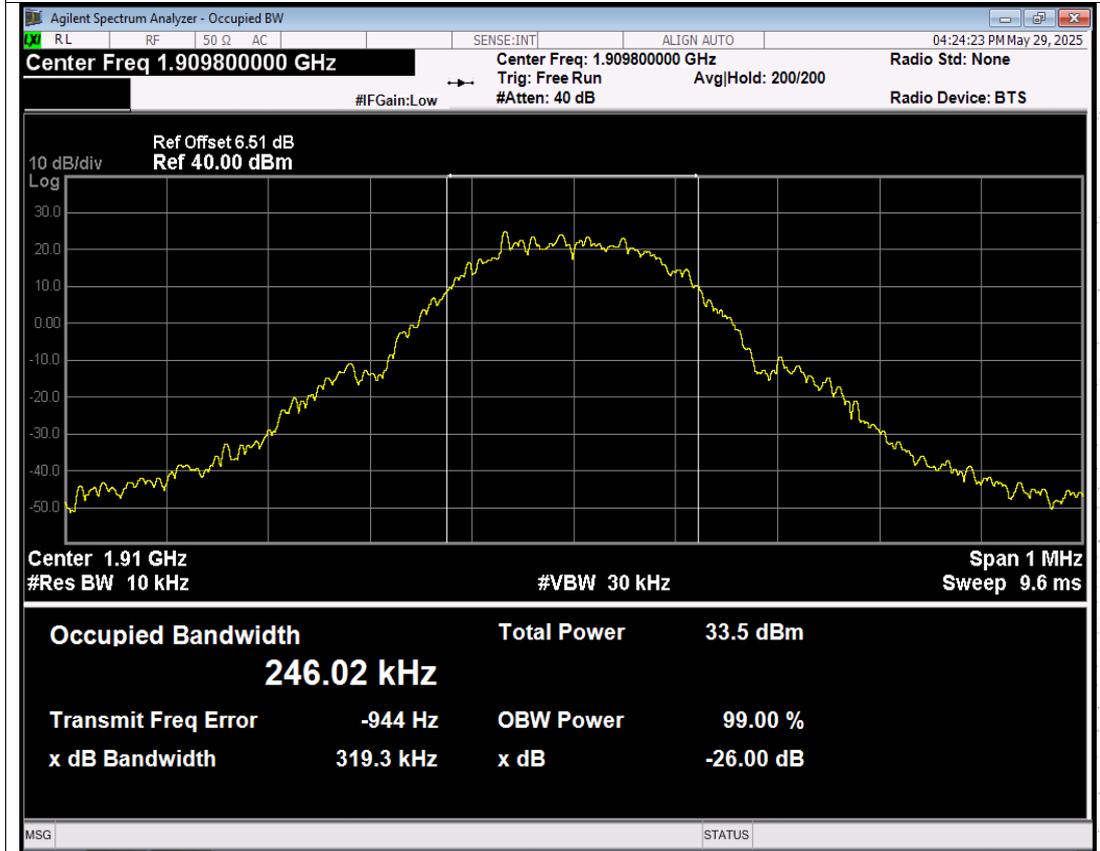

GPRS1900 Channel=661 NVNT

GPRS1900 Channel=810 NVNT




EGPRS850 Channel=251 NVNT

EGPRS1900 Channel=512 NVNT



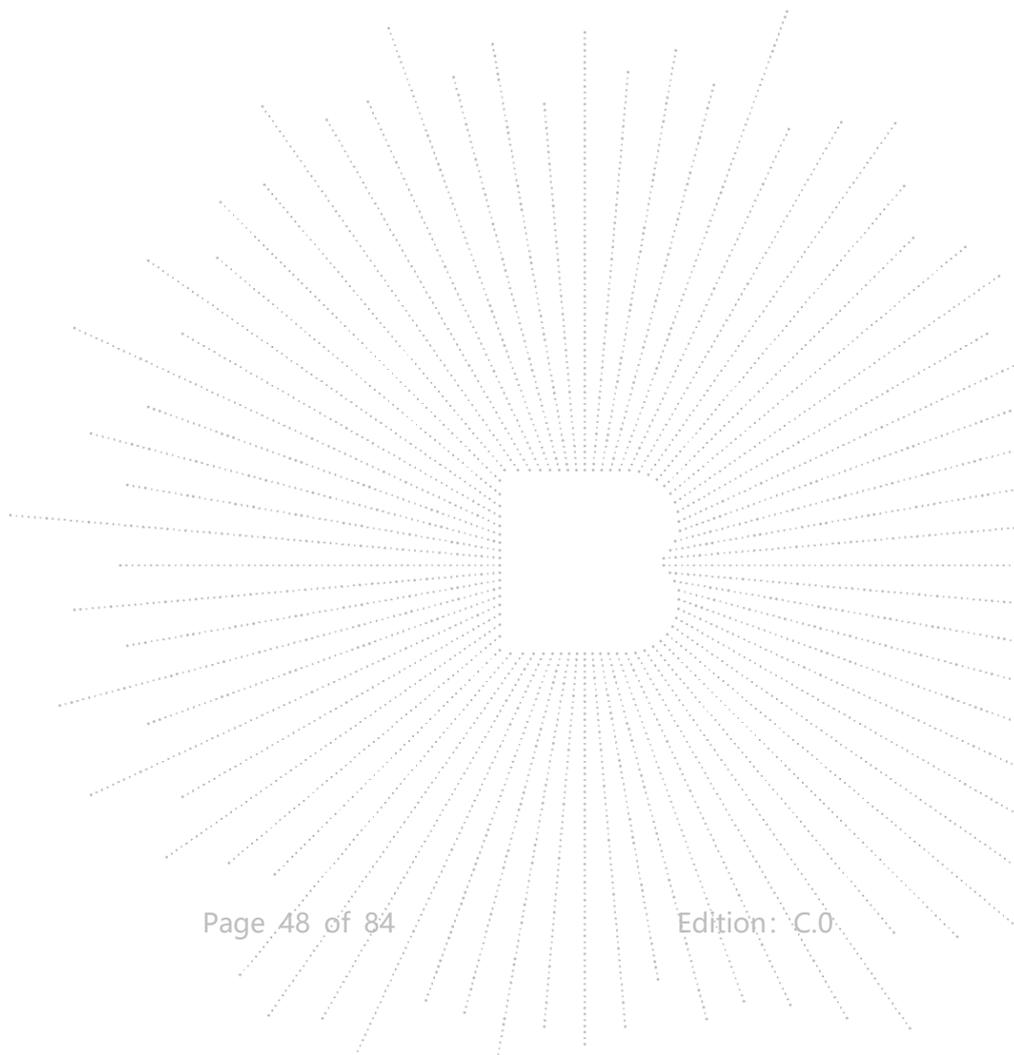
EGPRS1900 Channel=661 NVNT

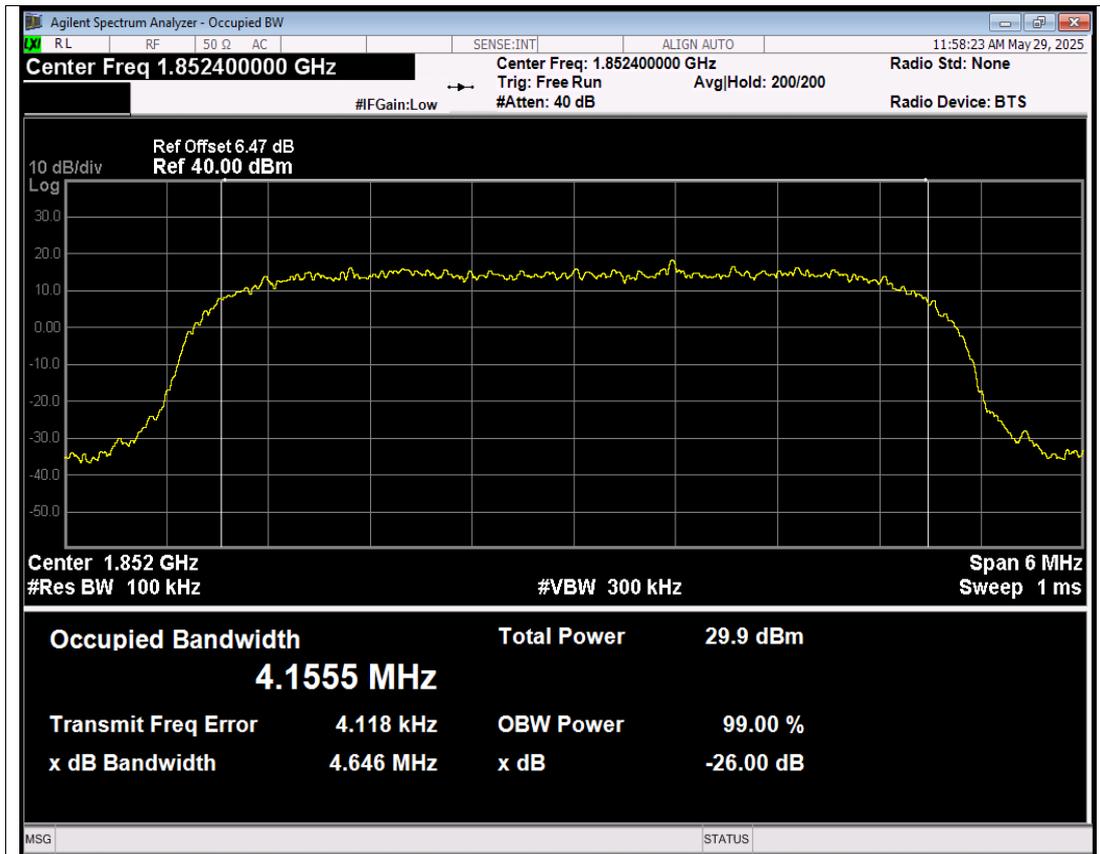


EGPRS1900 Channel=810 NVNT

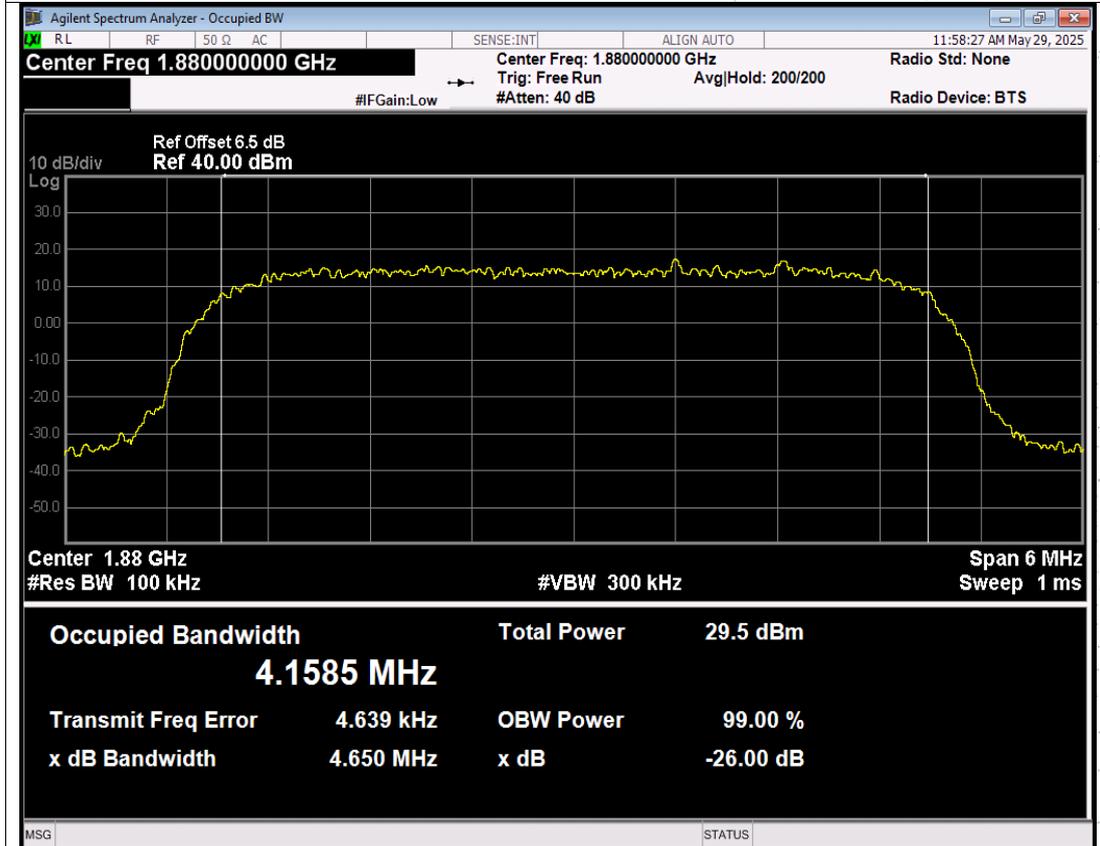
Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
WCDMA Band2	9262	1852.4	4155.537	4645.936	PASS
WCDMA Band2	9400	1880	4158.505	4649.703	PASS
WCDMA Band2	9538	1907.6	4161.519	4664.611	PASS
WCDMA Band5	4132	826.4	4163.892	4639.750	PASS
WCDMA Band5	4182	836.4	4160.854	4669.347	PASS
WCDMA Band5	4233	846.6	4151.996	4657.203	PASS

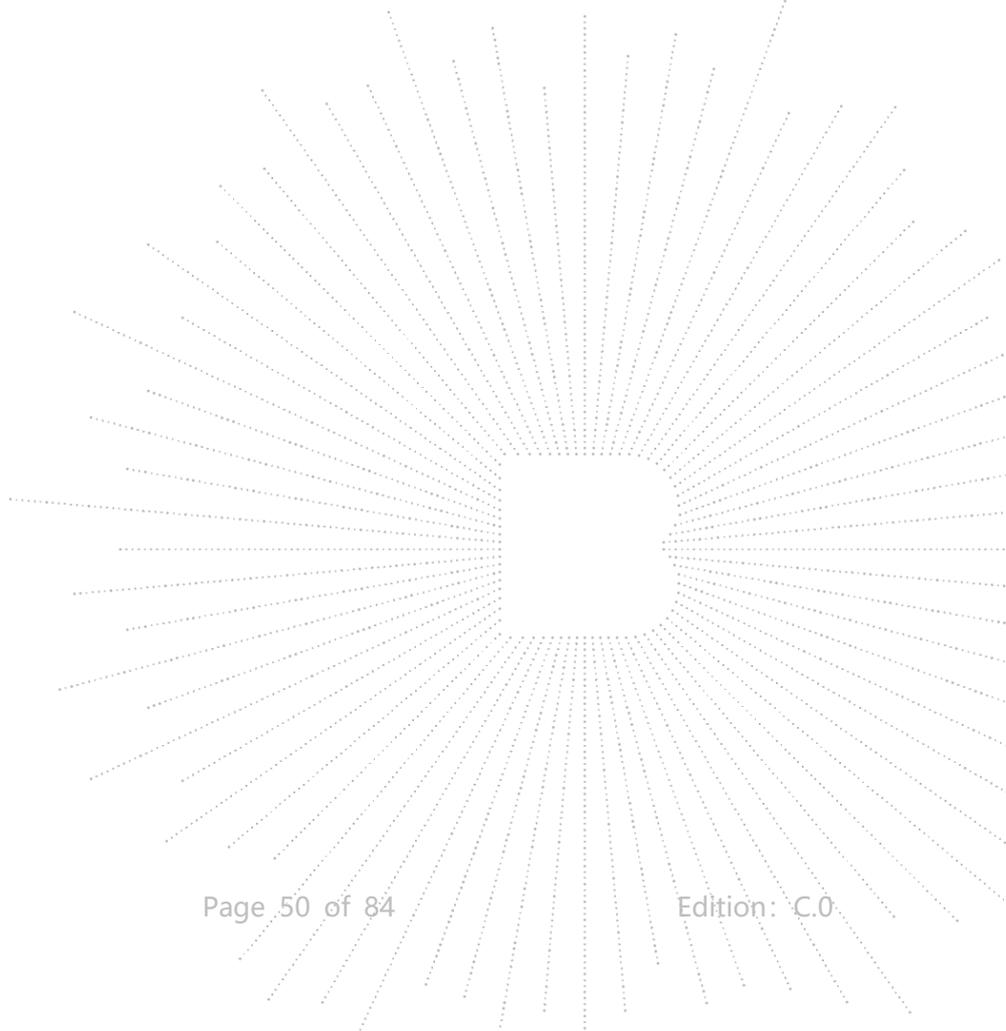
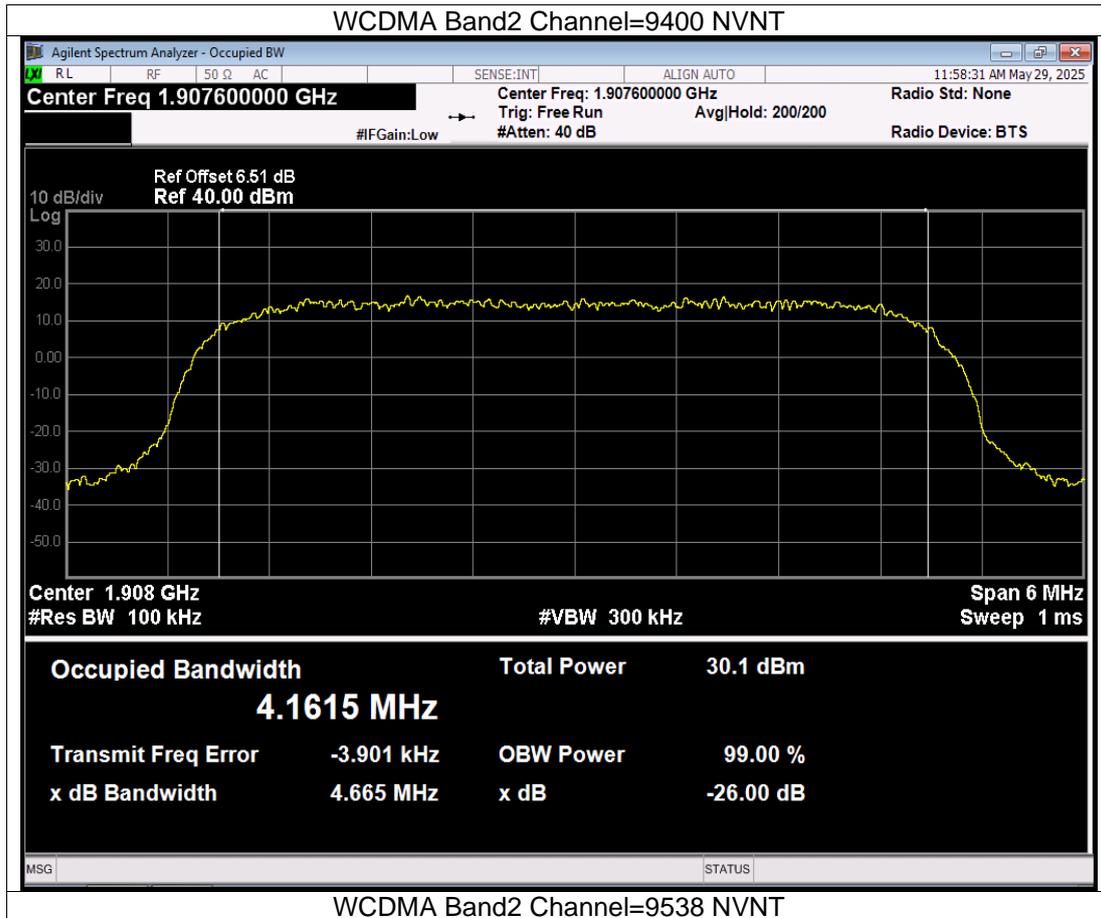
Note: In WCDMA, RMC, HSDPA and HSUPA all three tests only reflect the worst mode RMC.

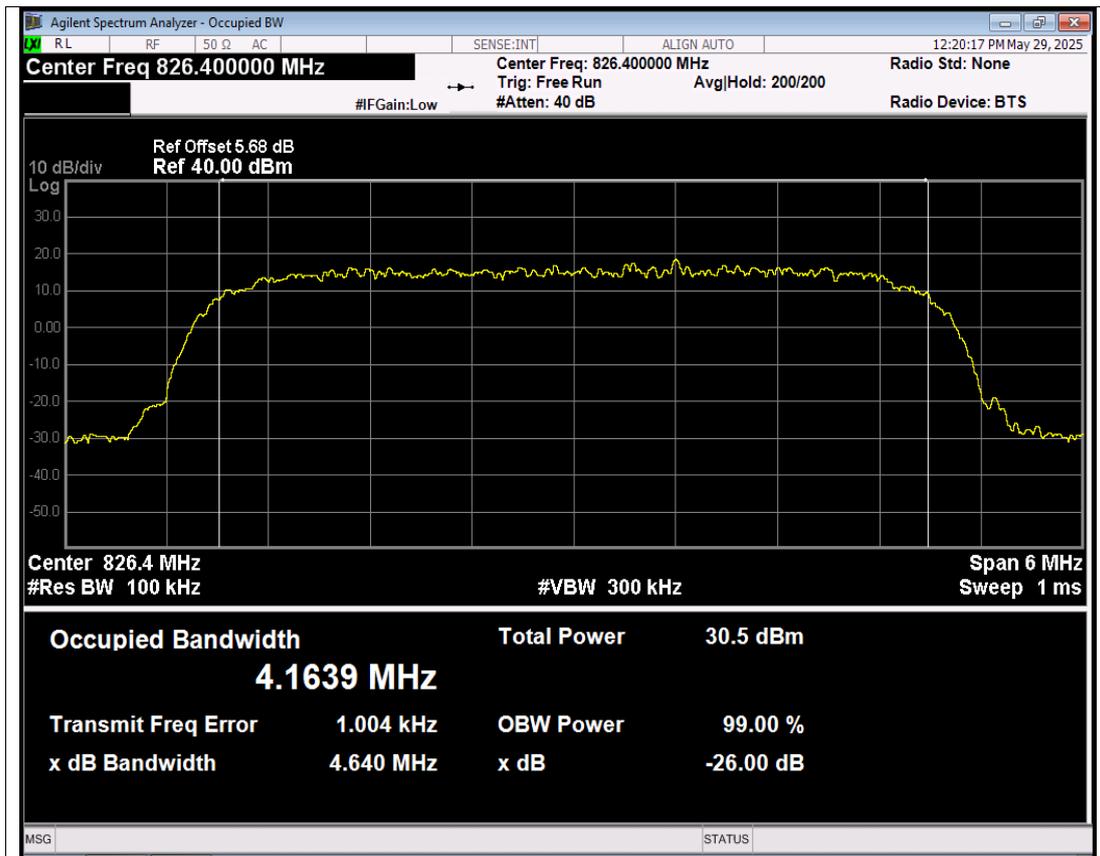




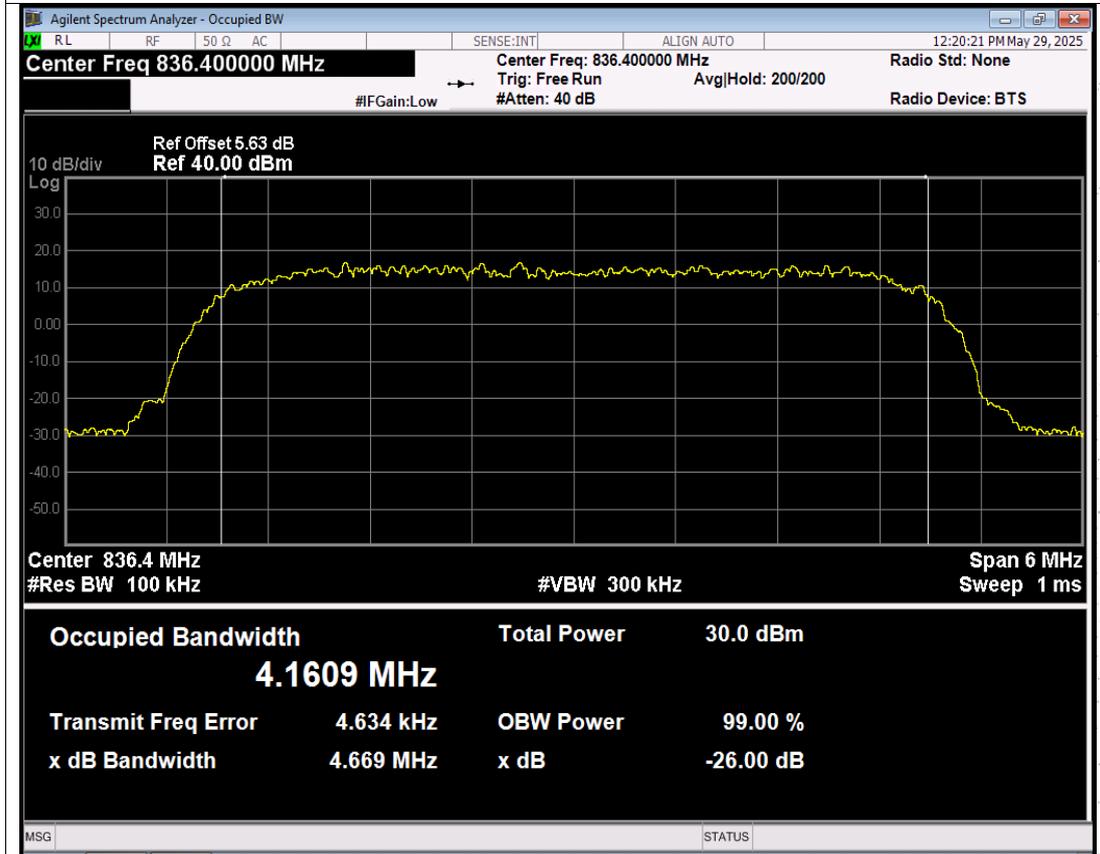
WCDMA Band2 Channel=9262 NVNT



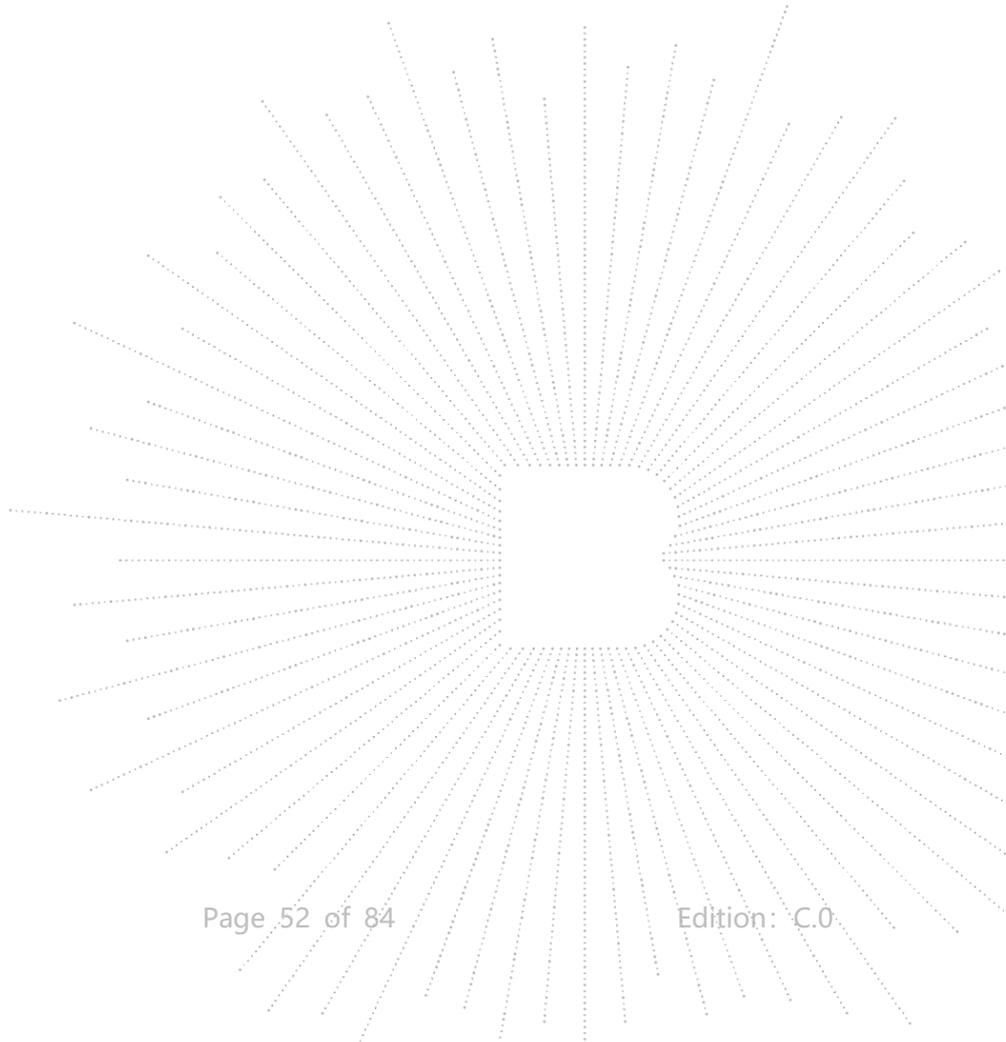
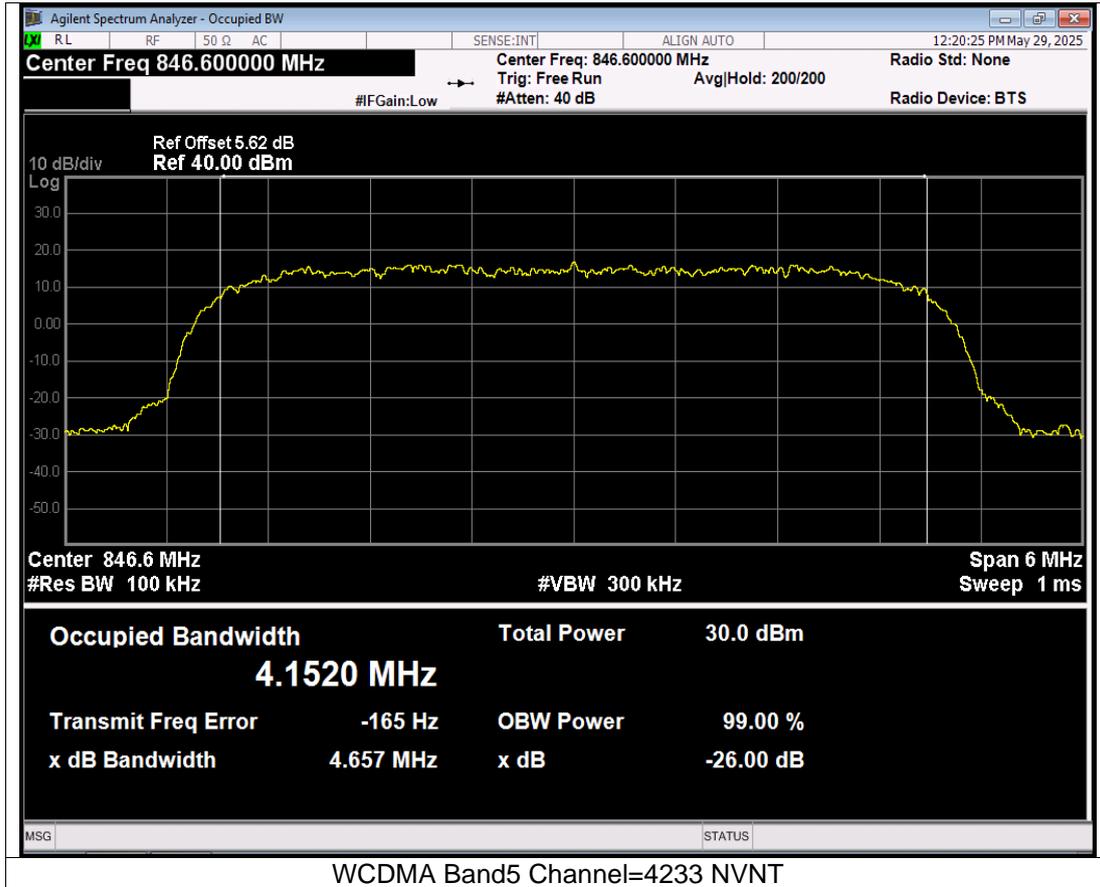




WCDMA Band5 Channel=4132 NVNT

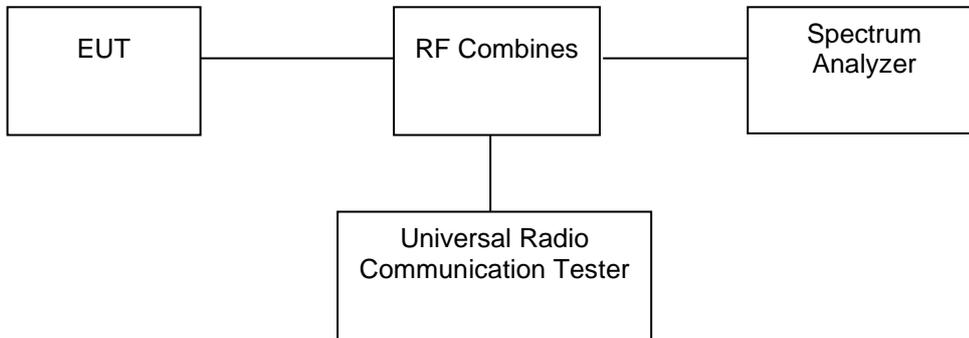


WCDMA Band5 Channel=4182 NVNT



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.

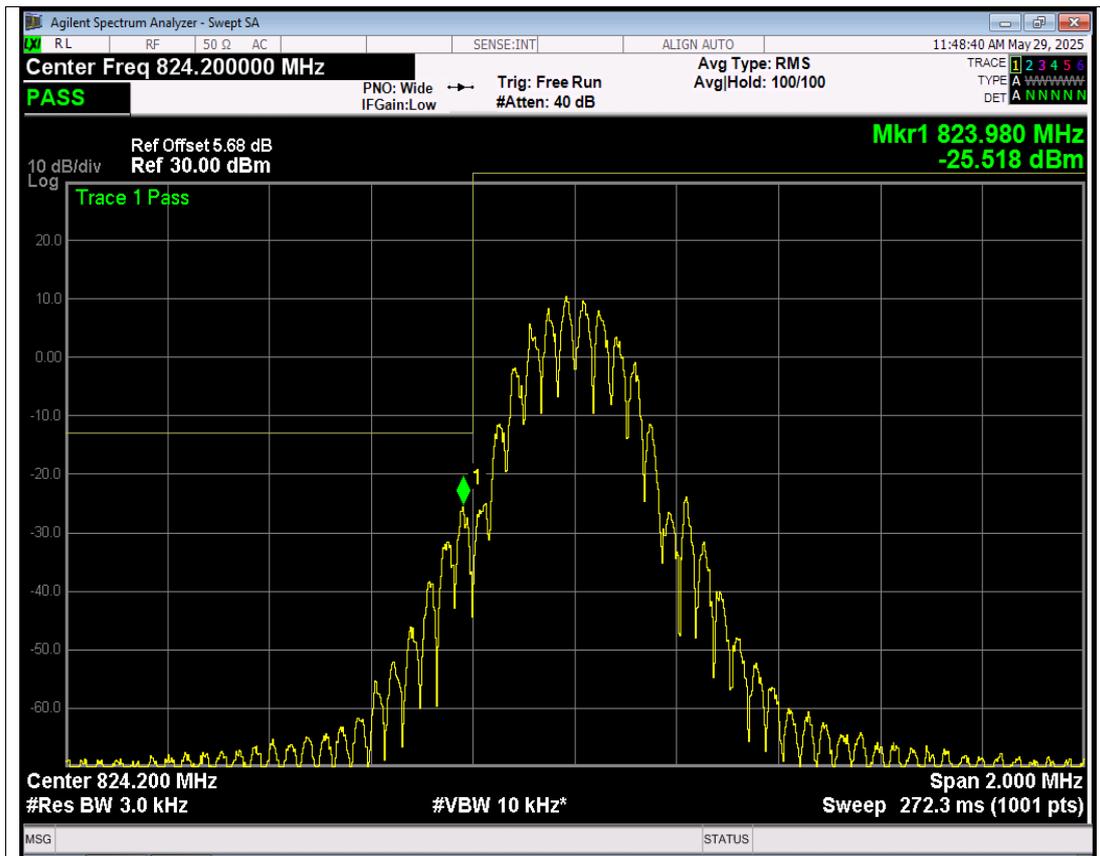
According to §24.238(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

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.

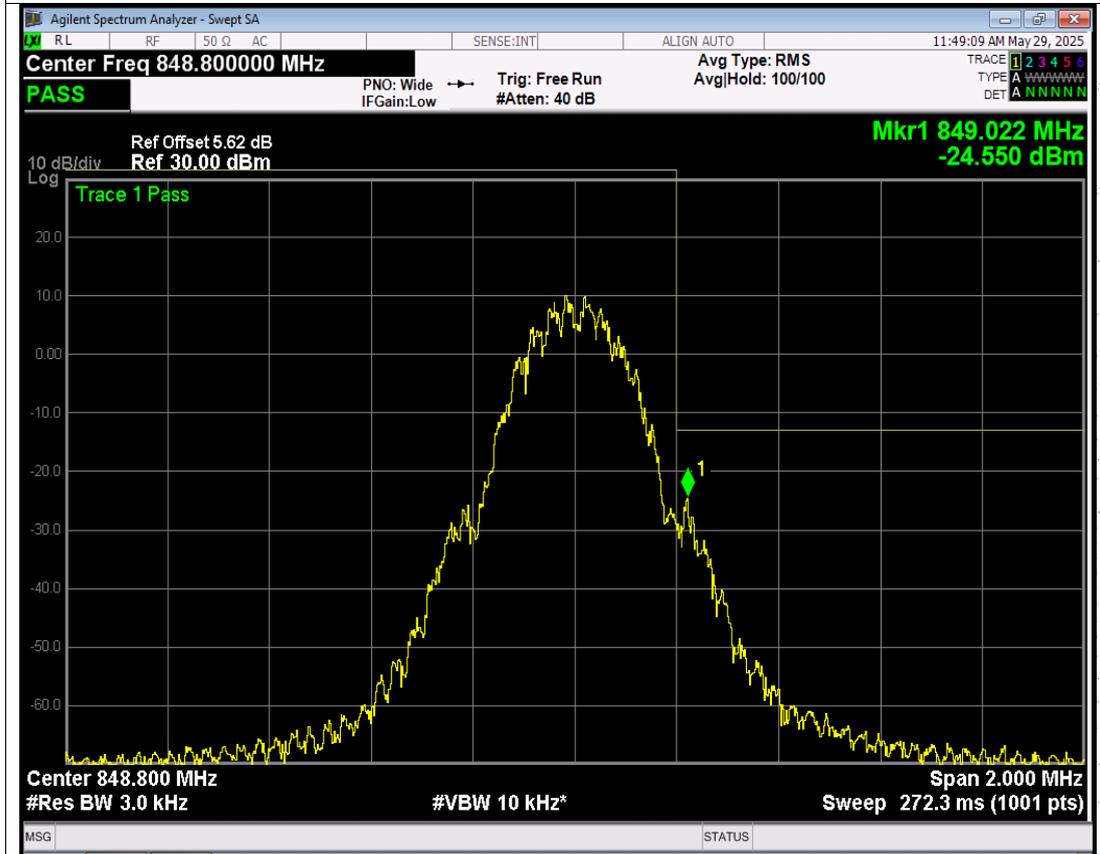
9.3 Test procedure

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. At the edge of the authorized Frequency block/band: RBW set 1%-5%OBW.

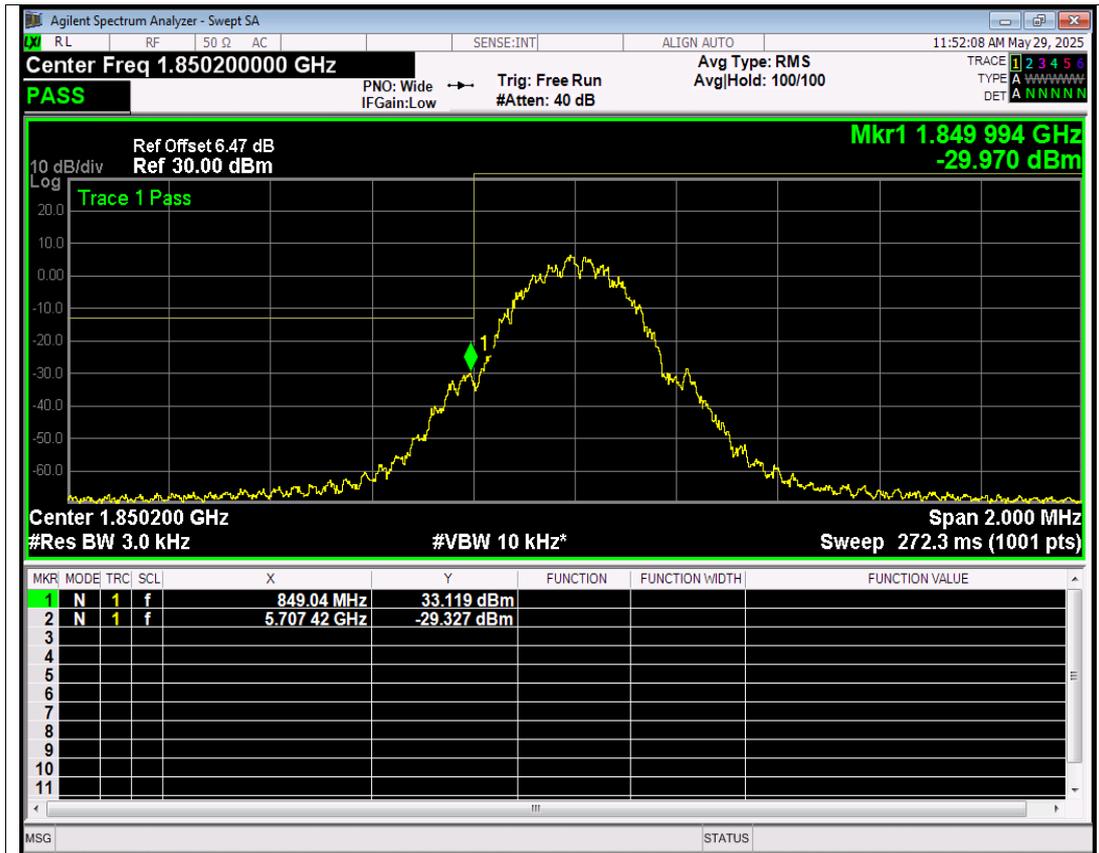
9.4 Test Result



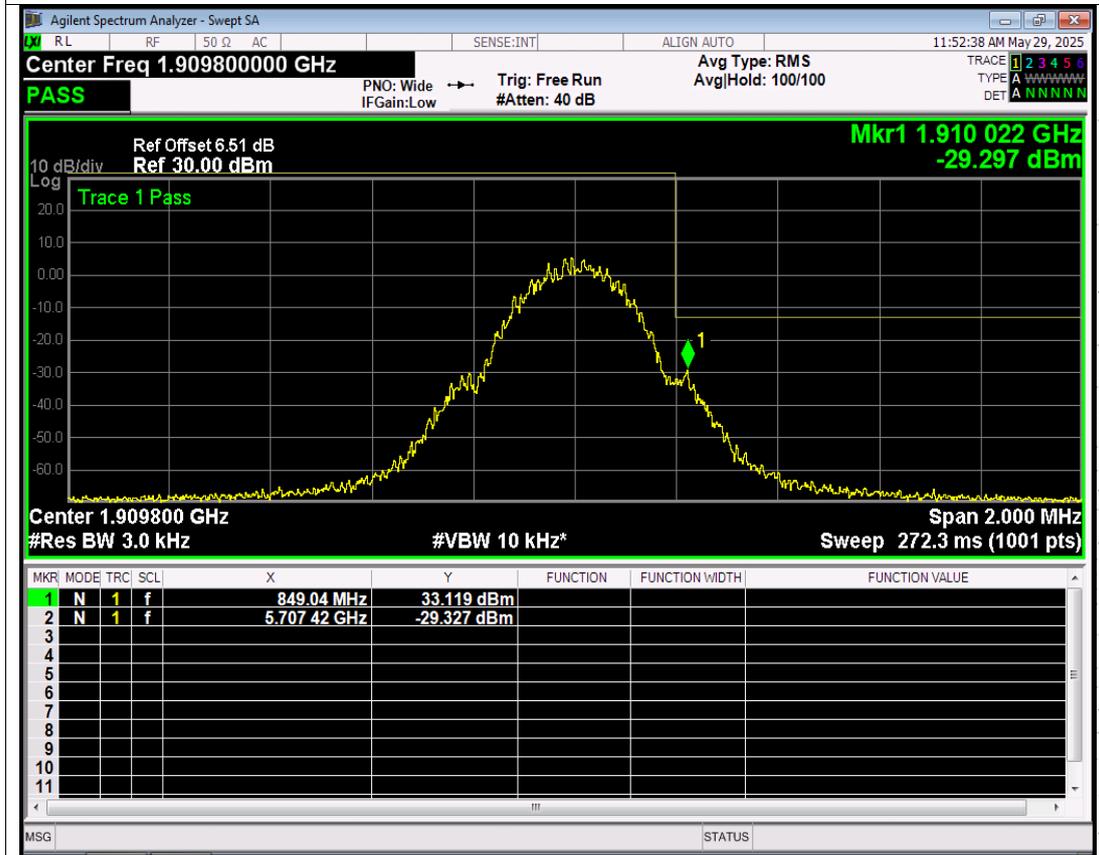
GSM850 Channel=128 NVNT



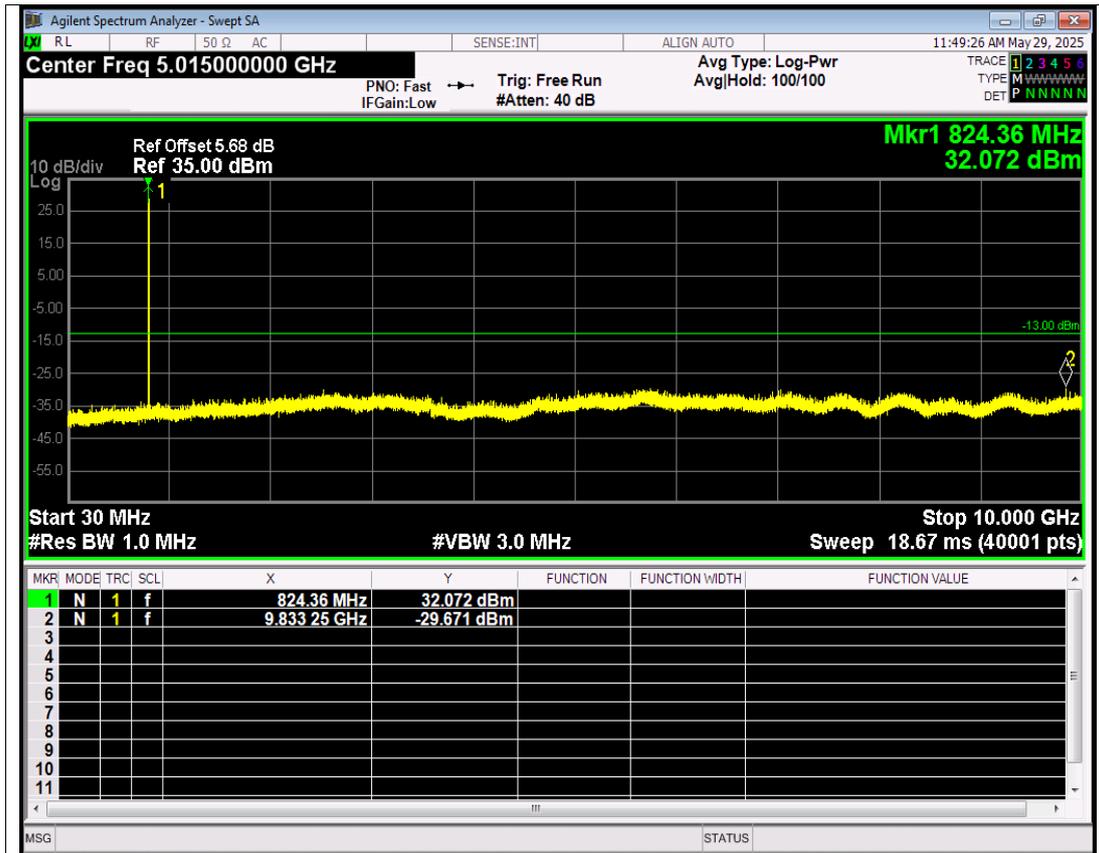
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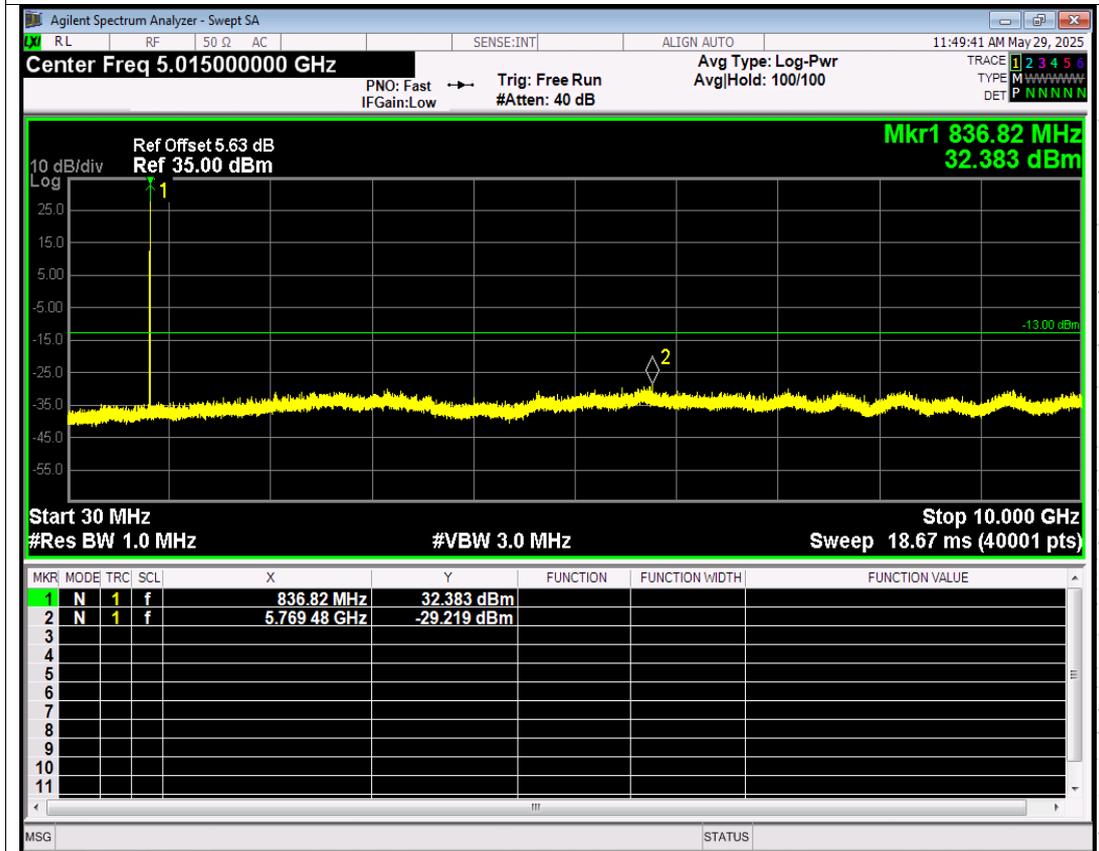
GSM1900 Channel=512 NVNT



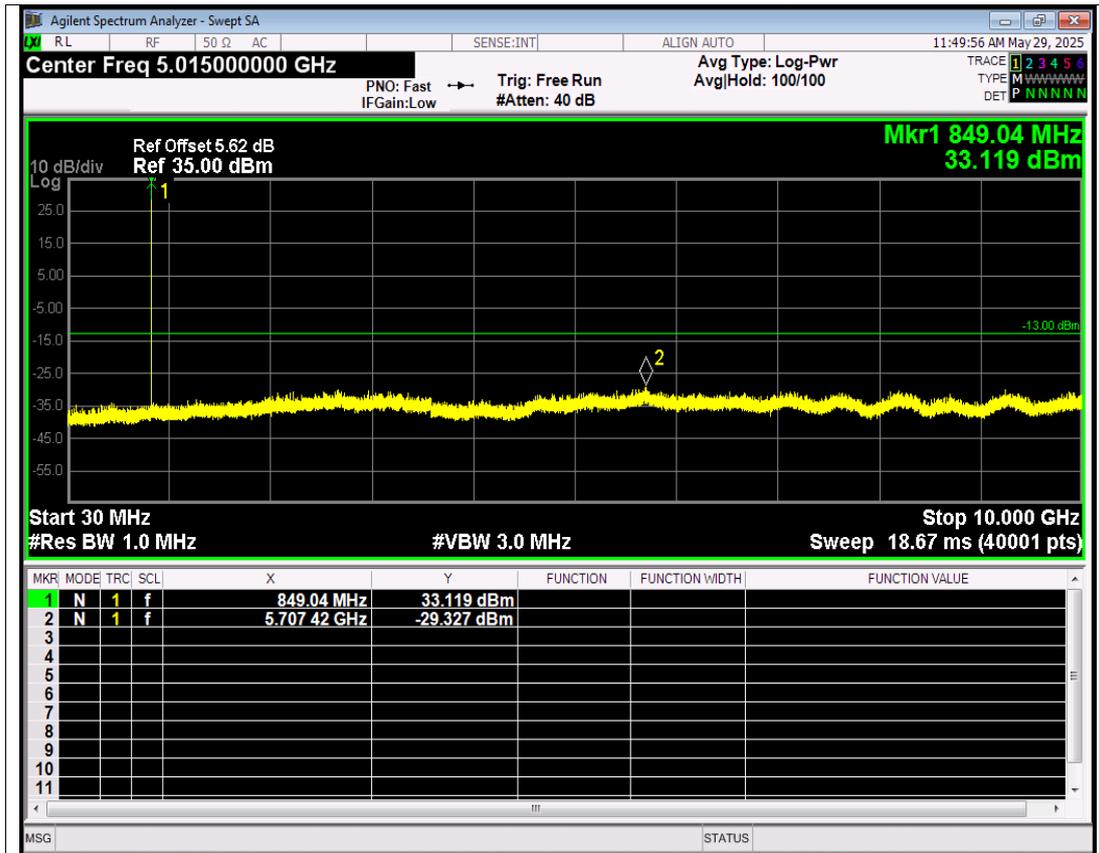
GSM1900 Channel=810 NVNT



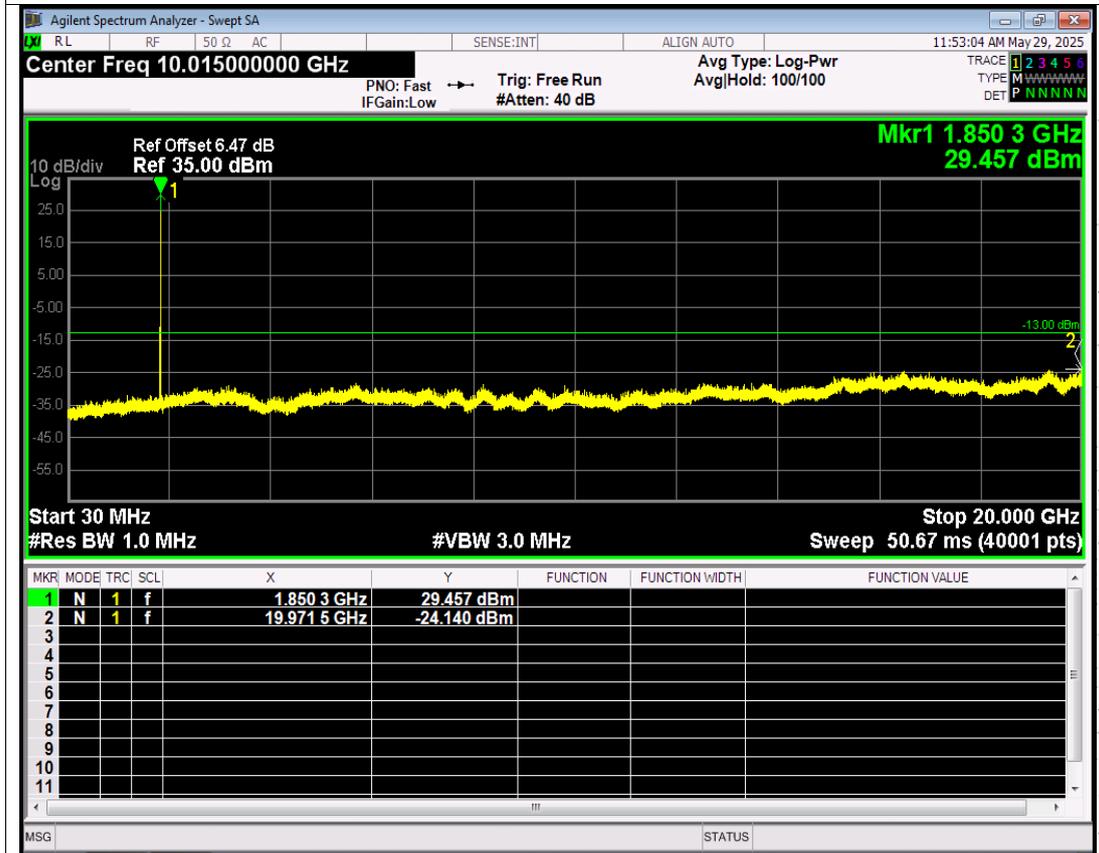
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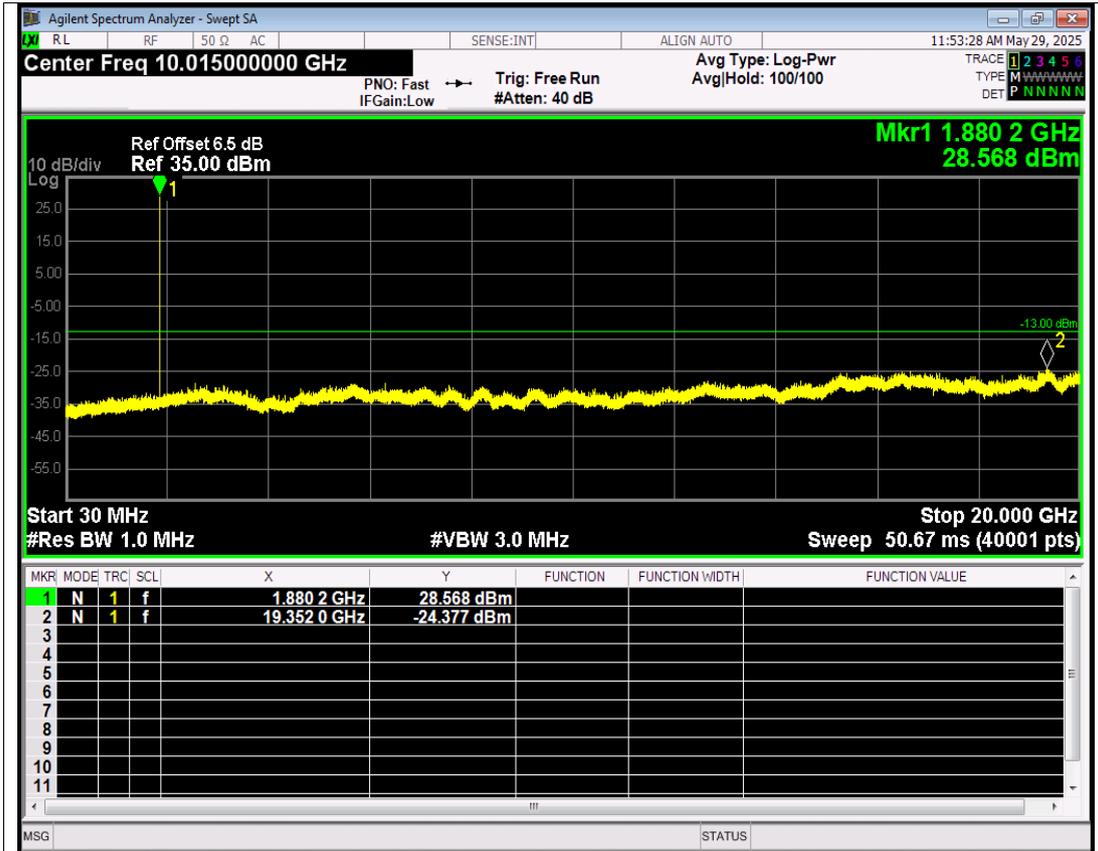
GSM850 Channel=190 NVNT



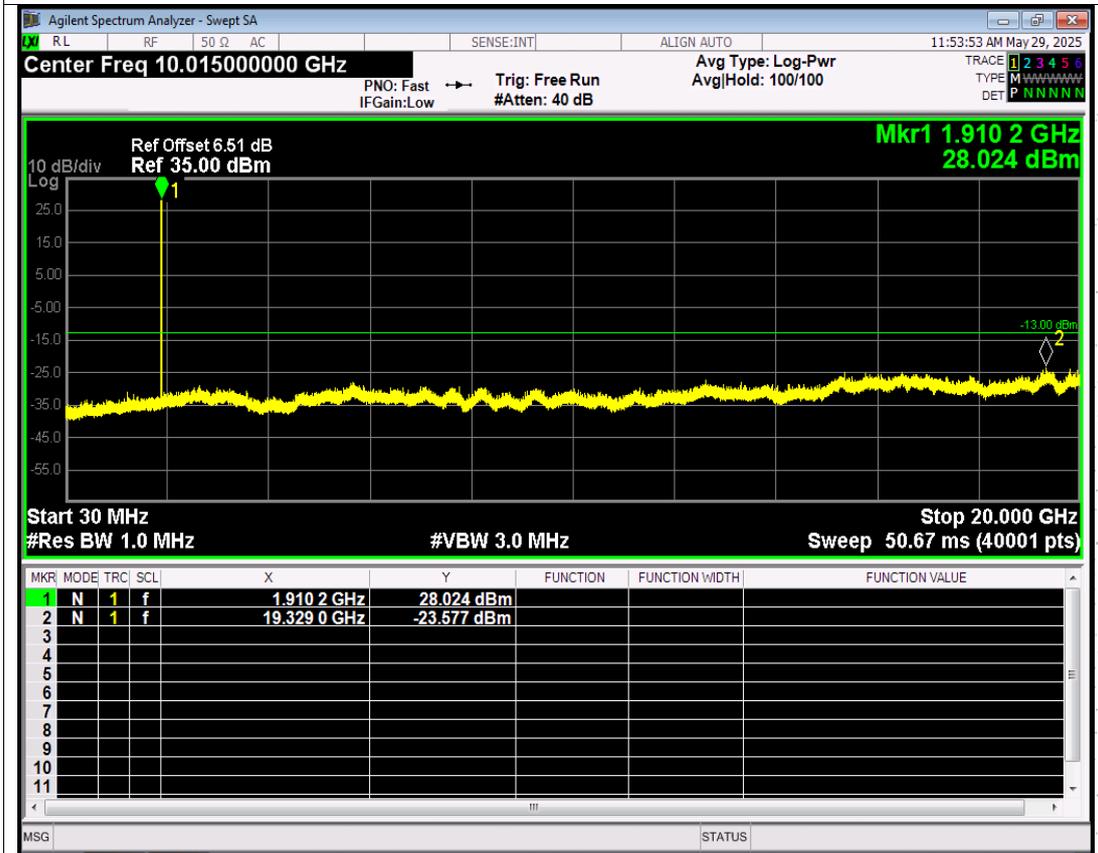
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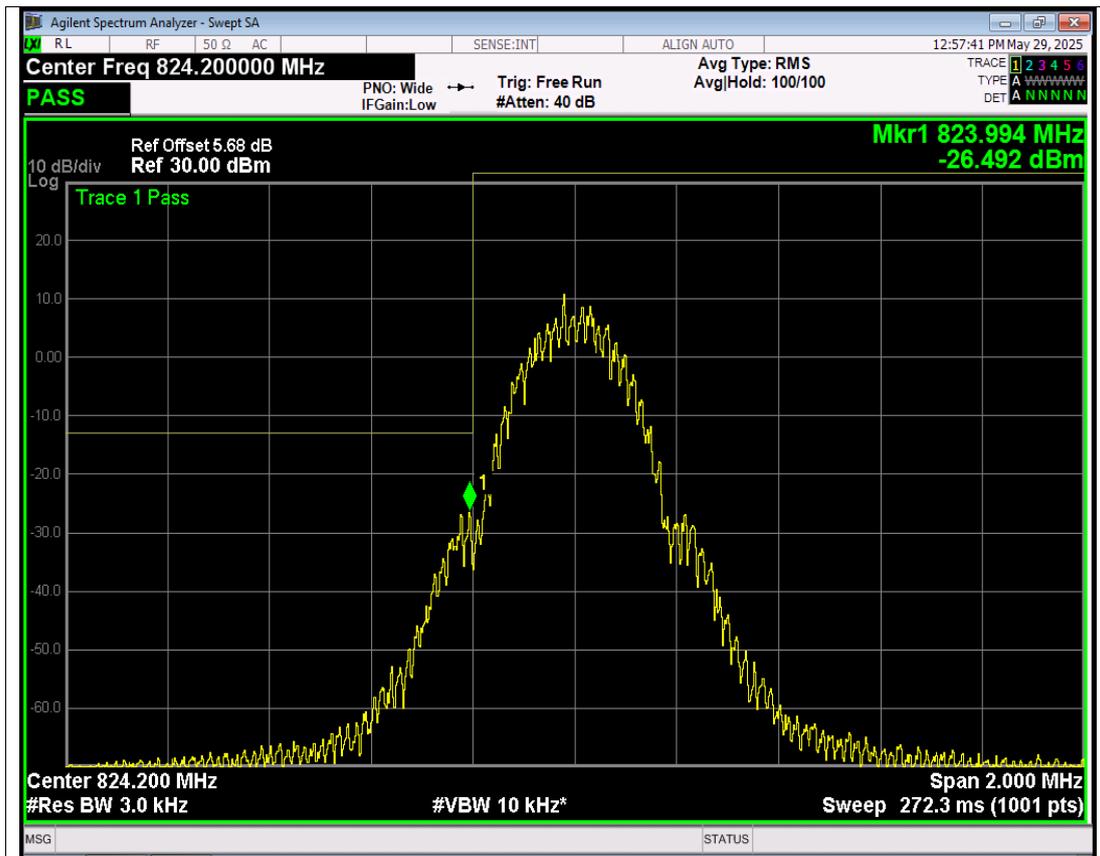
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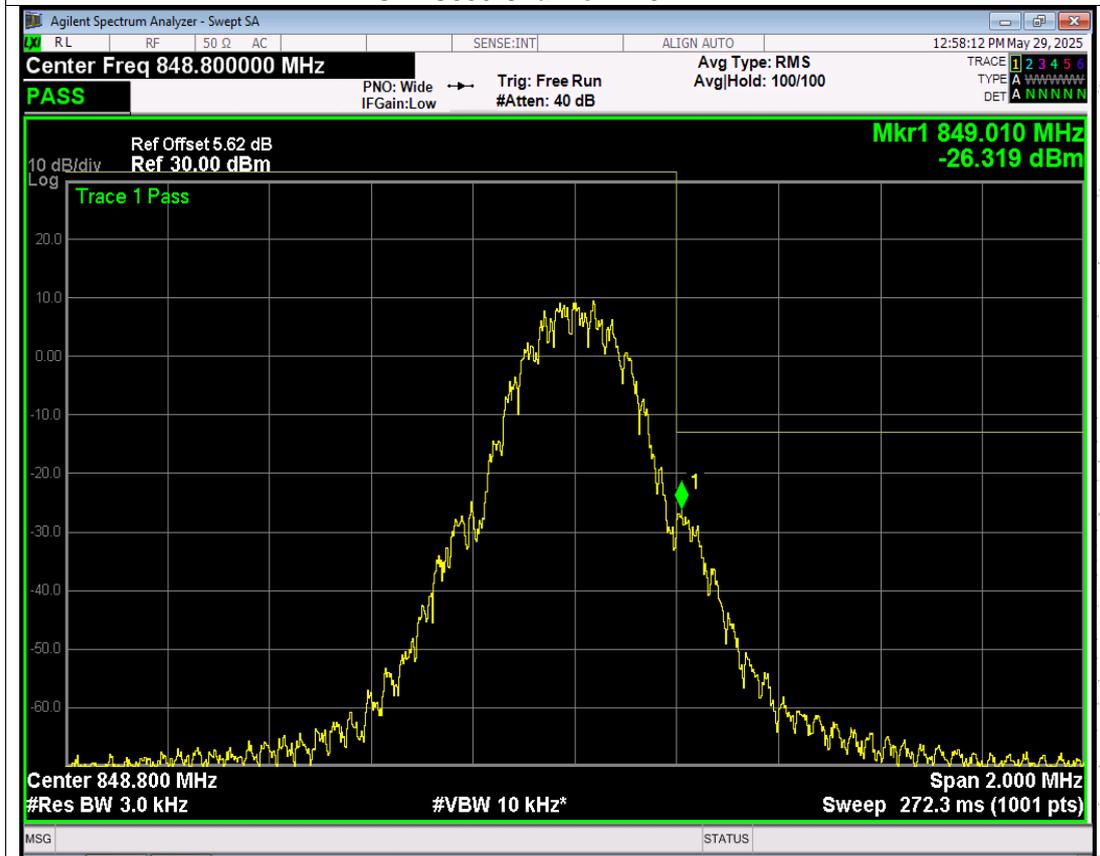
GSM1900 Channel=661 NVNT



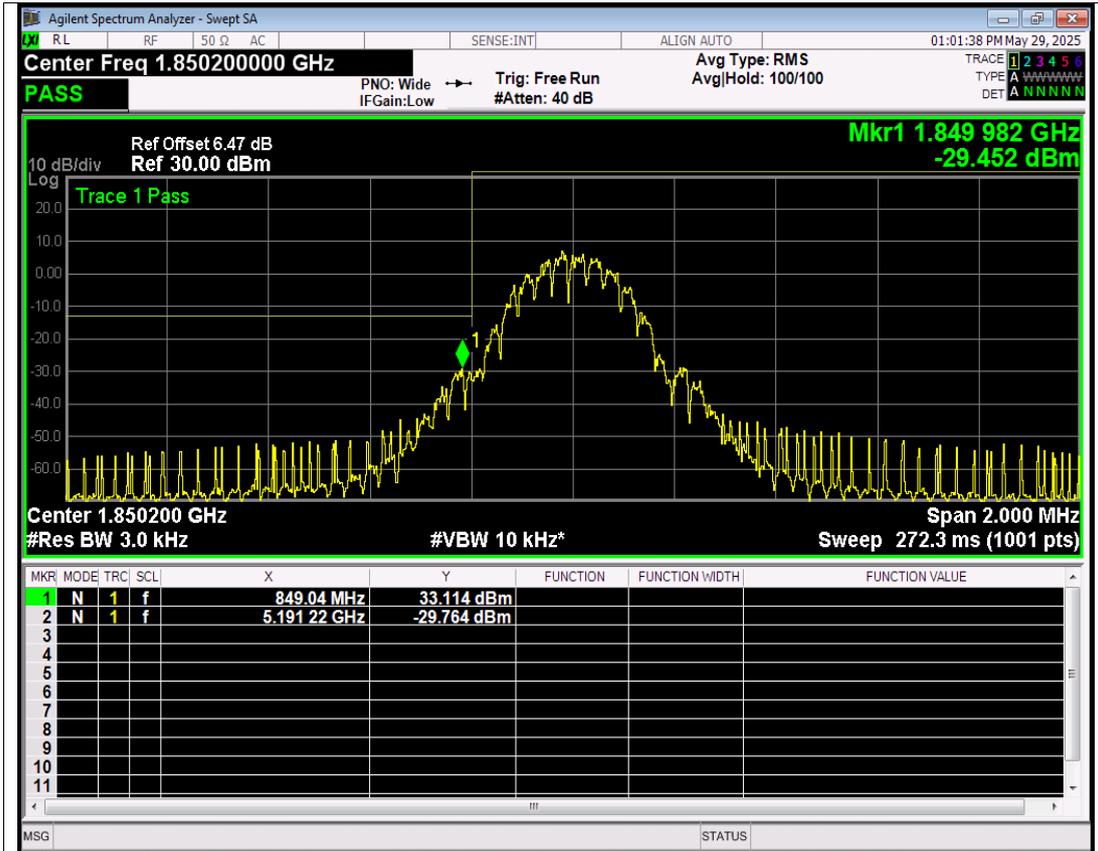
GSM1900 Channel=810 NVNT



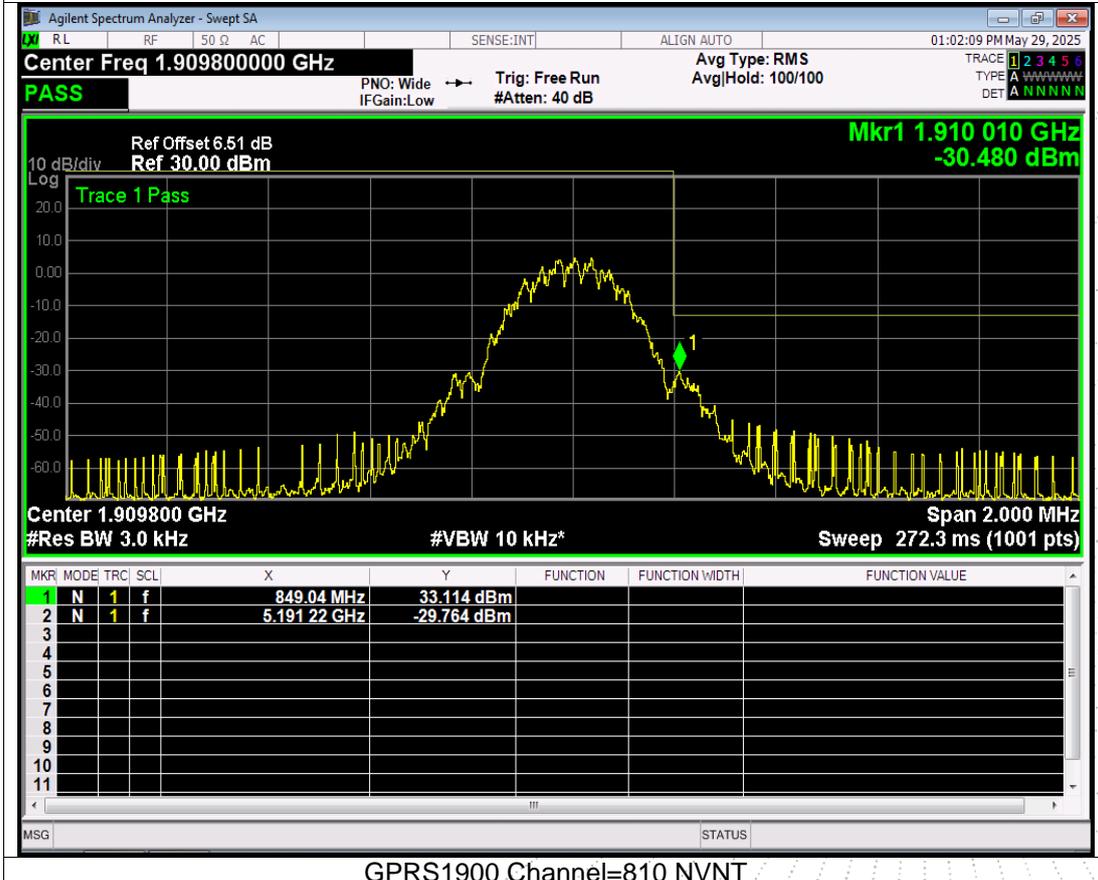
GPRS850 Channel=128 NVNT



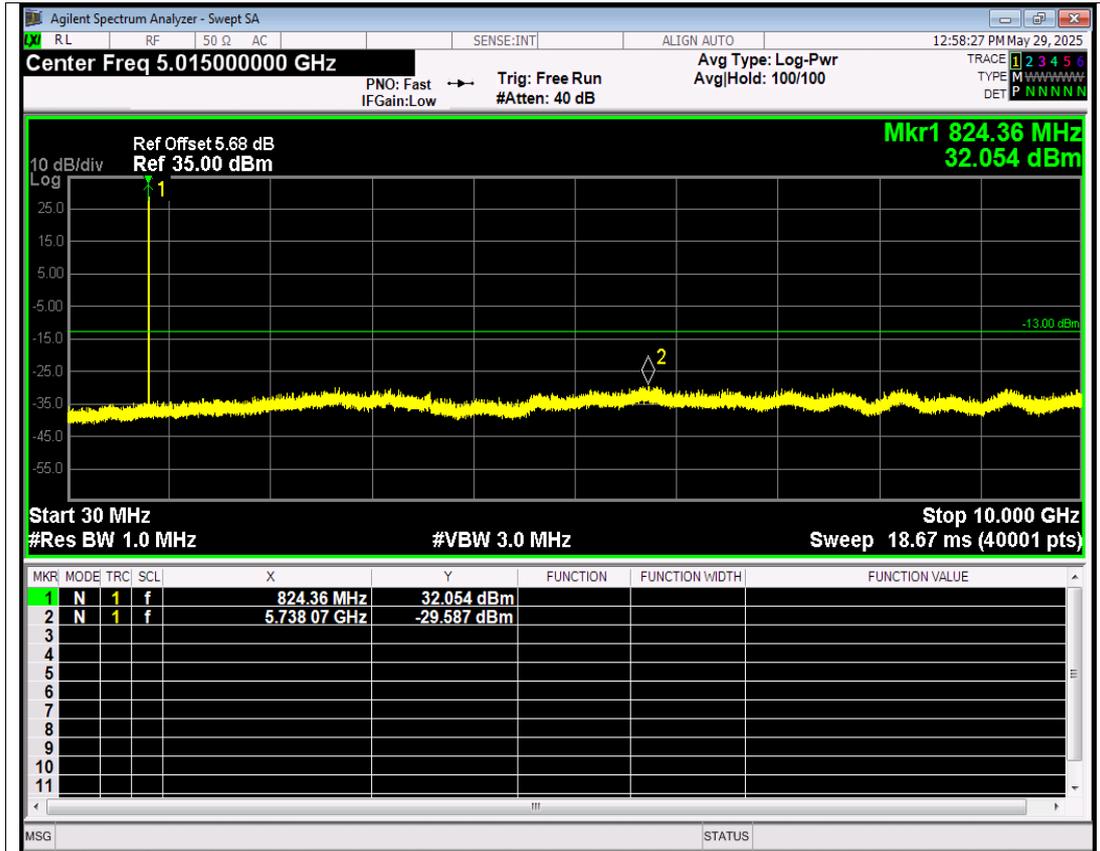
GPRS850 Channel=251 NVNT



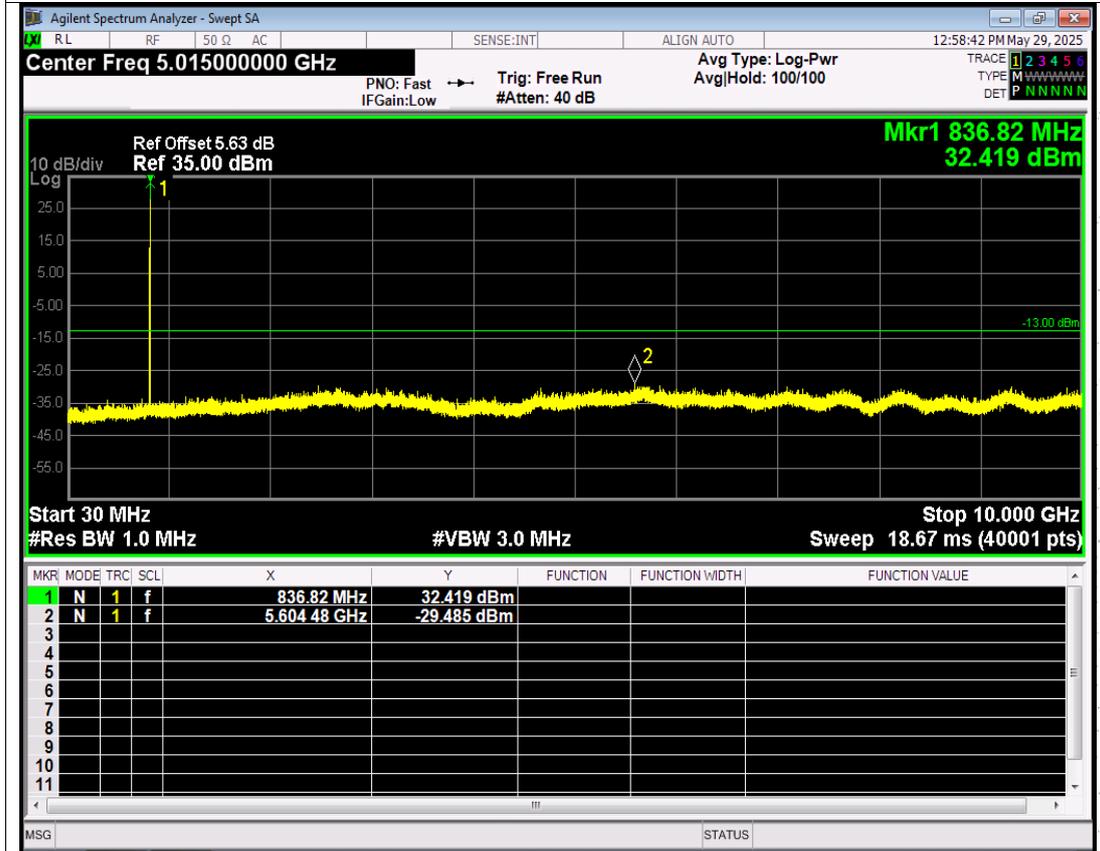
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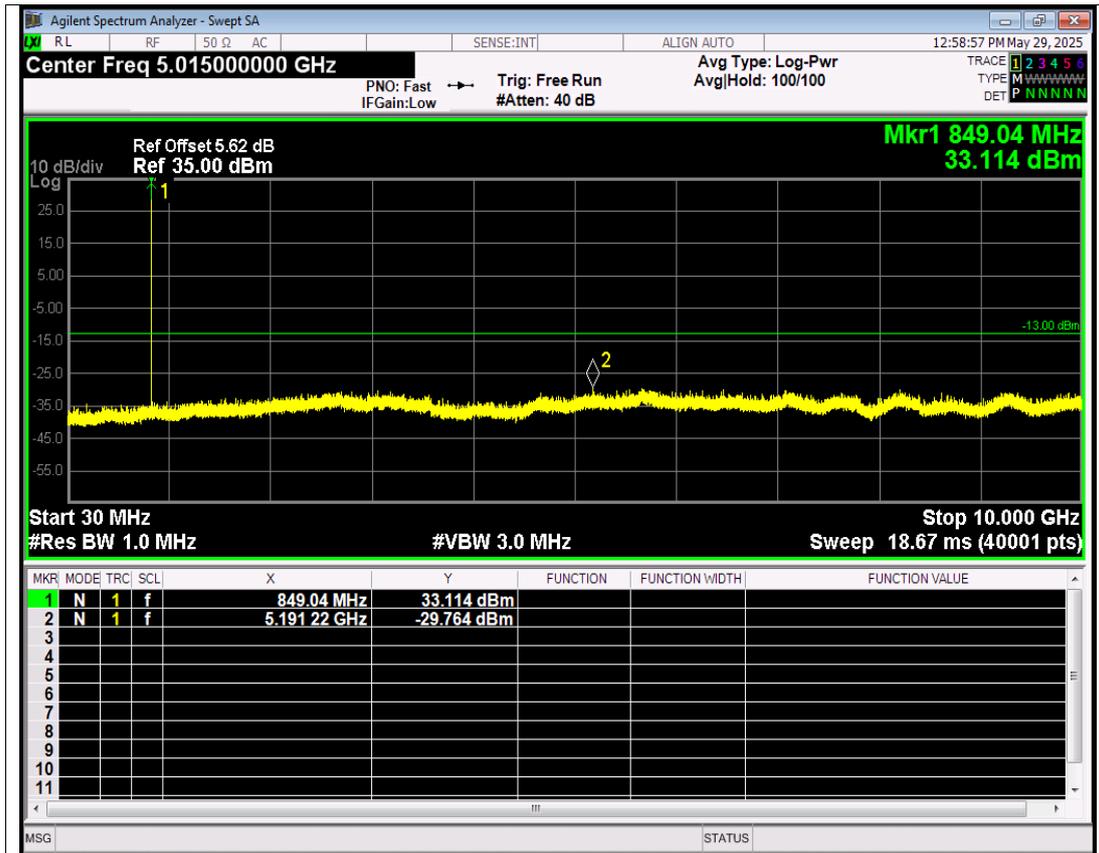
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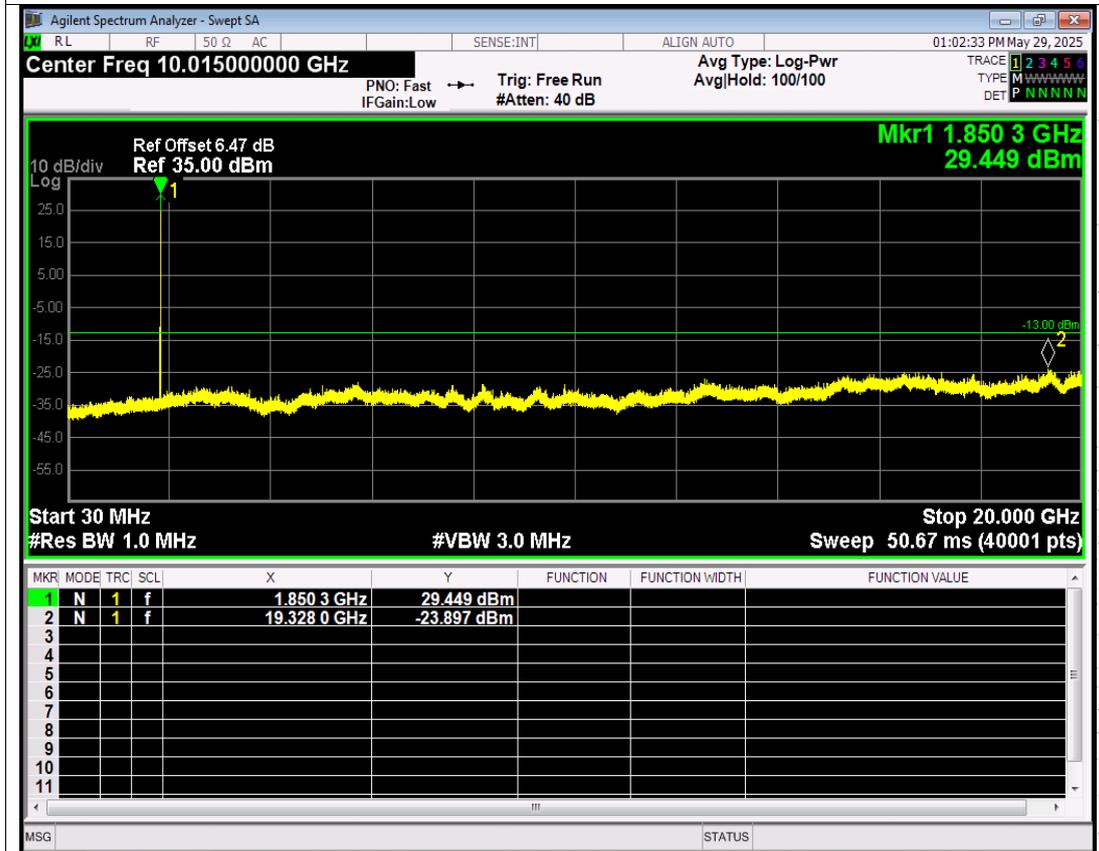
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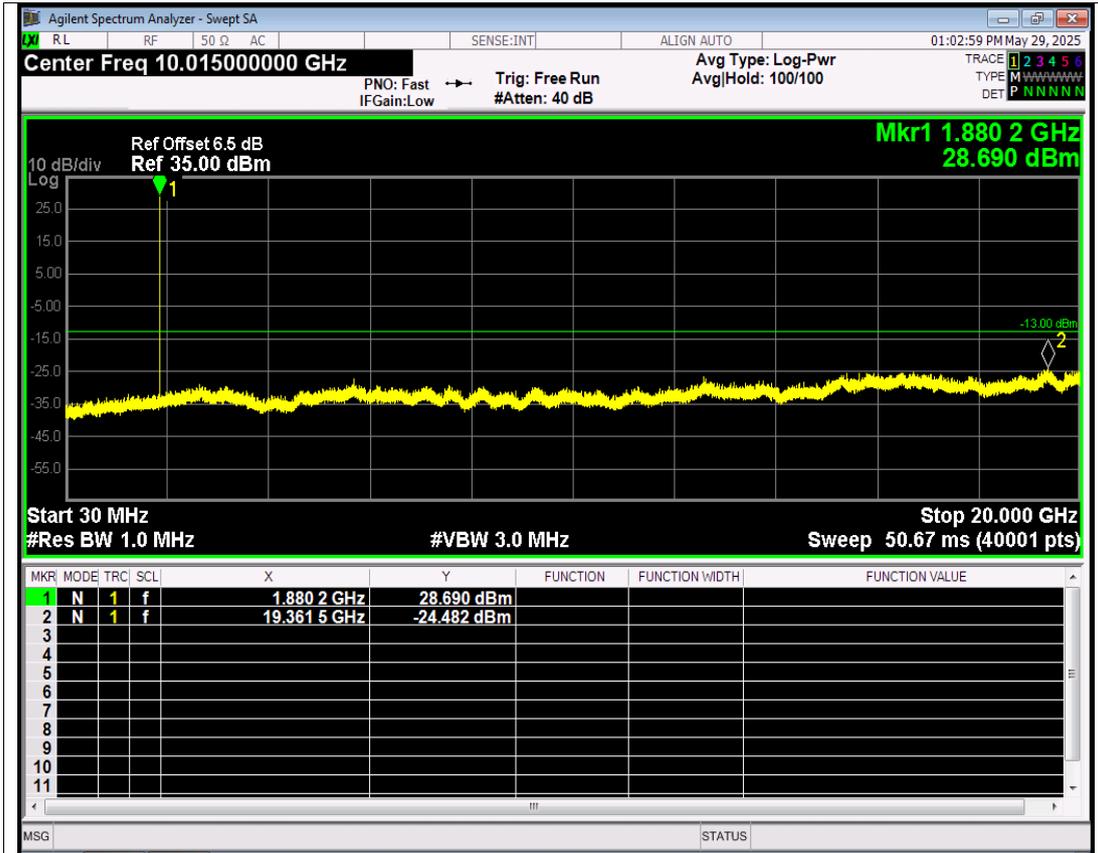
GPRS850 Channel=190 NVNT



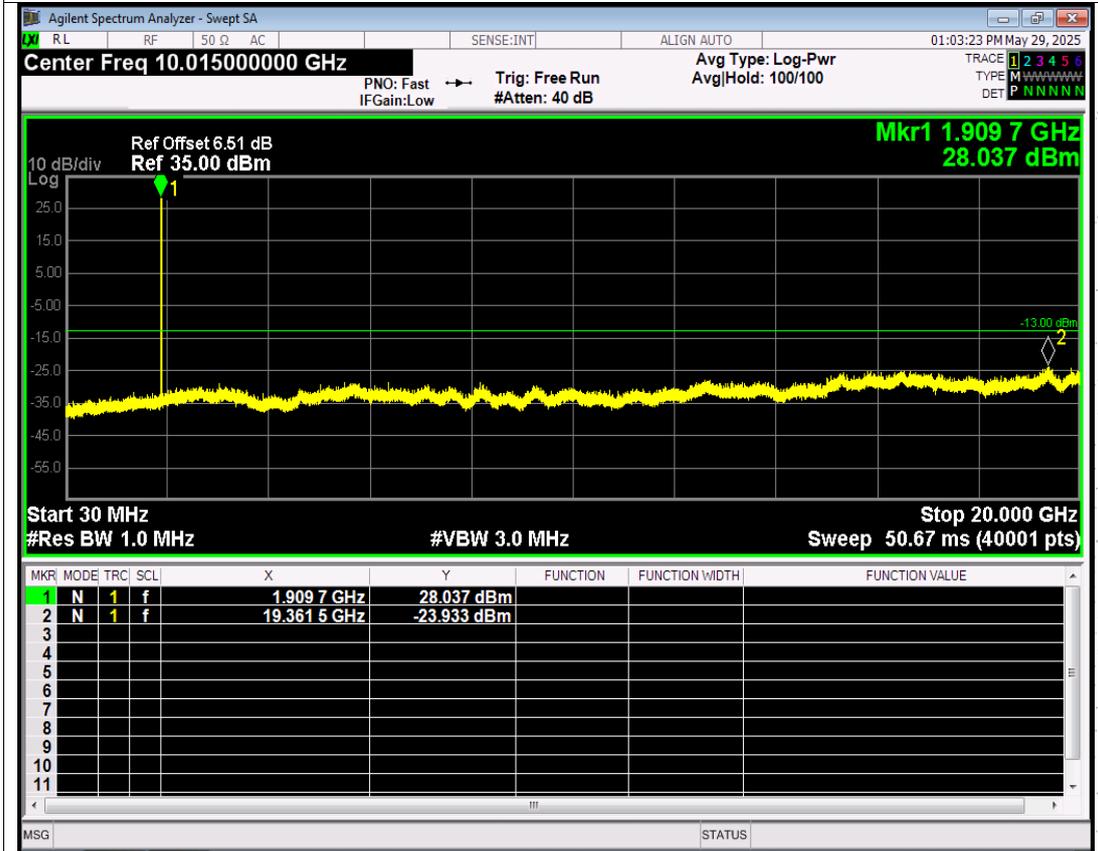
GPRS850 Channel=251 NVNT



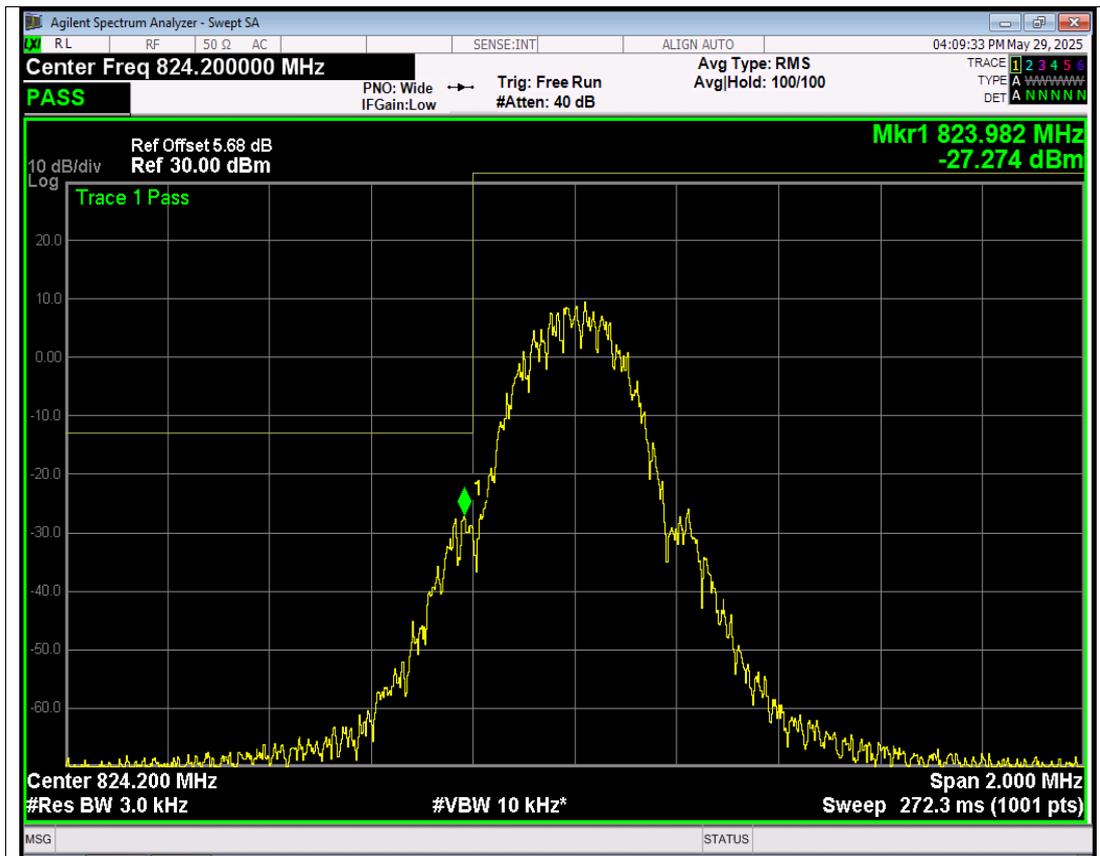
GPRS1900 Channel=512 NVNT



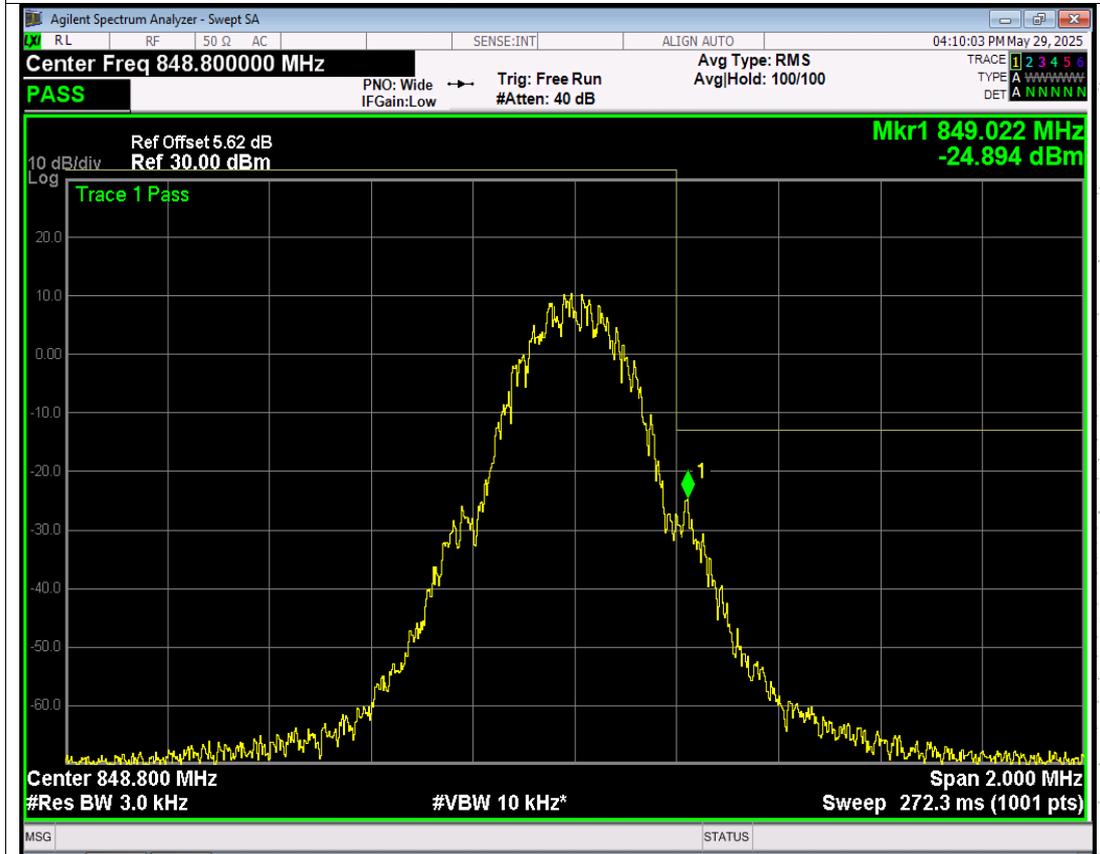
GPRS1900 Channel=661 NVNT



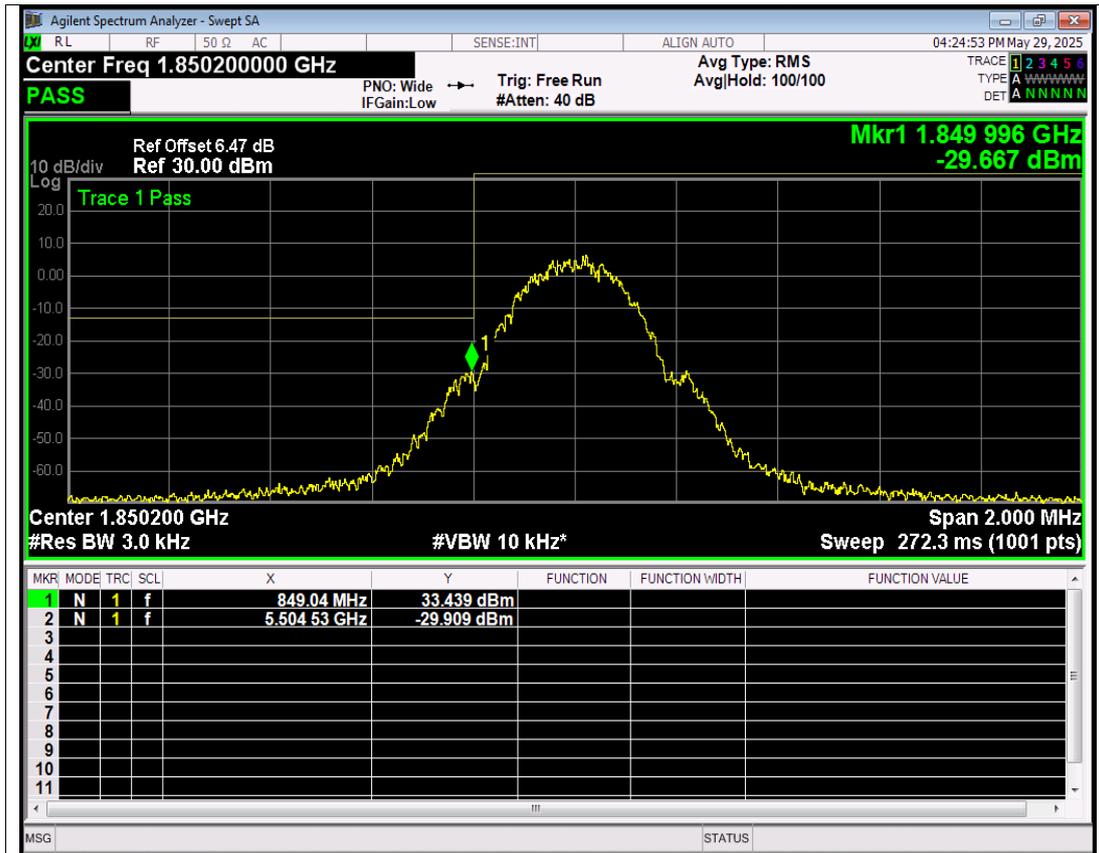
GPRS1900 Channel=810 NVNT



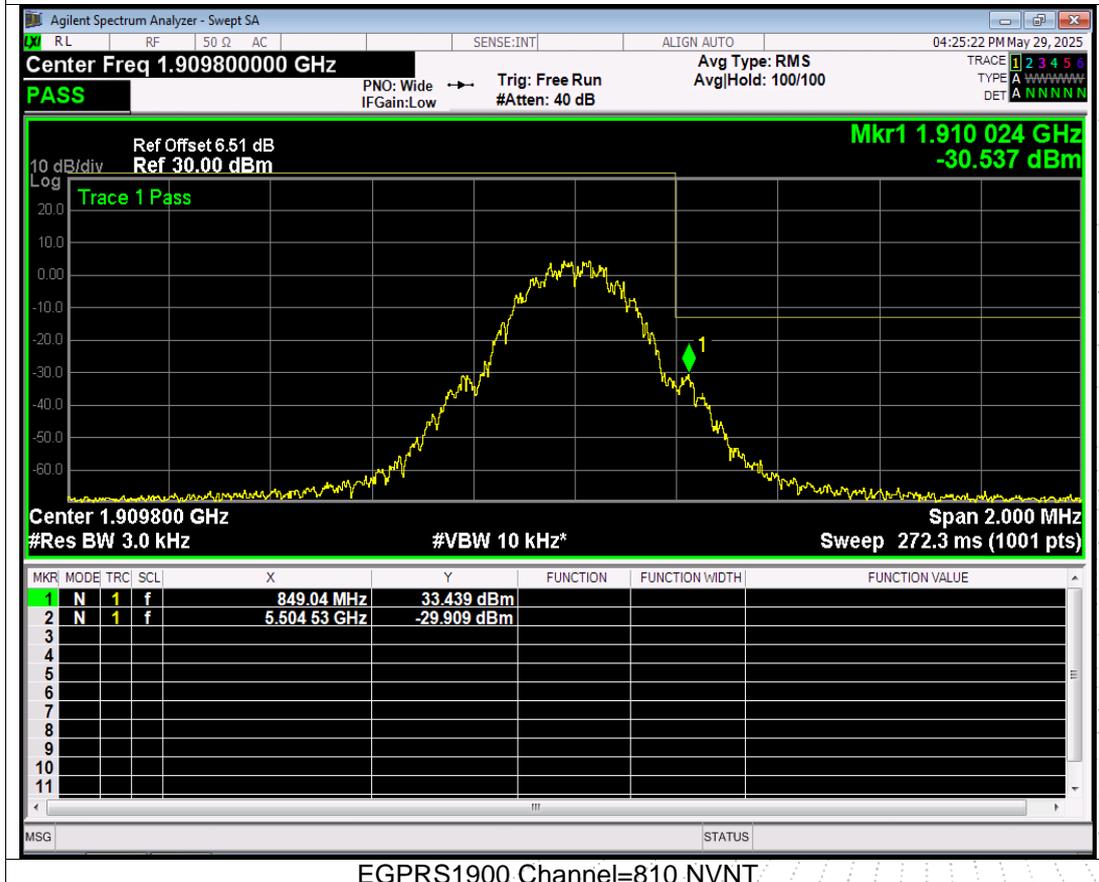
EGPRS850 Channel=128 NVNT



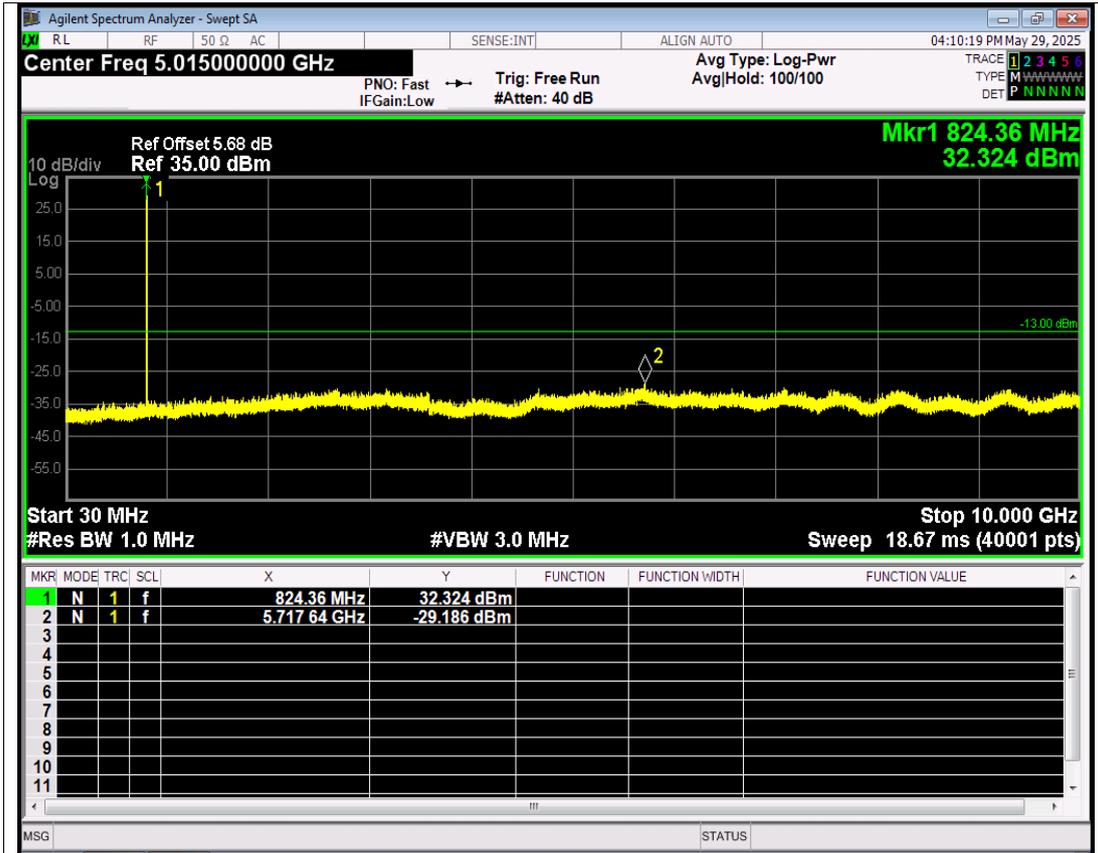
EGPRS850 Channel=251 NVNT



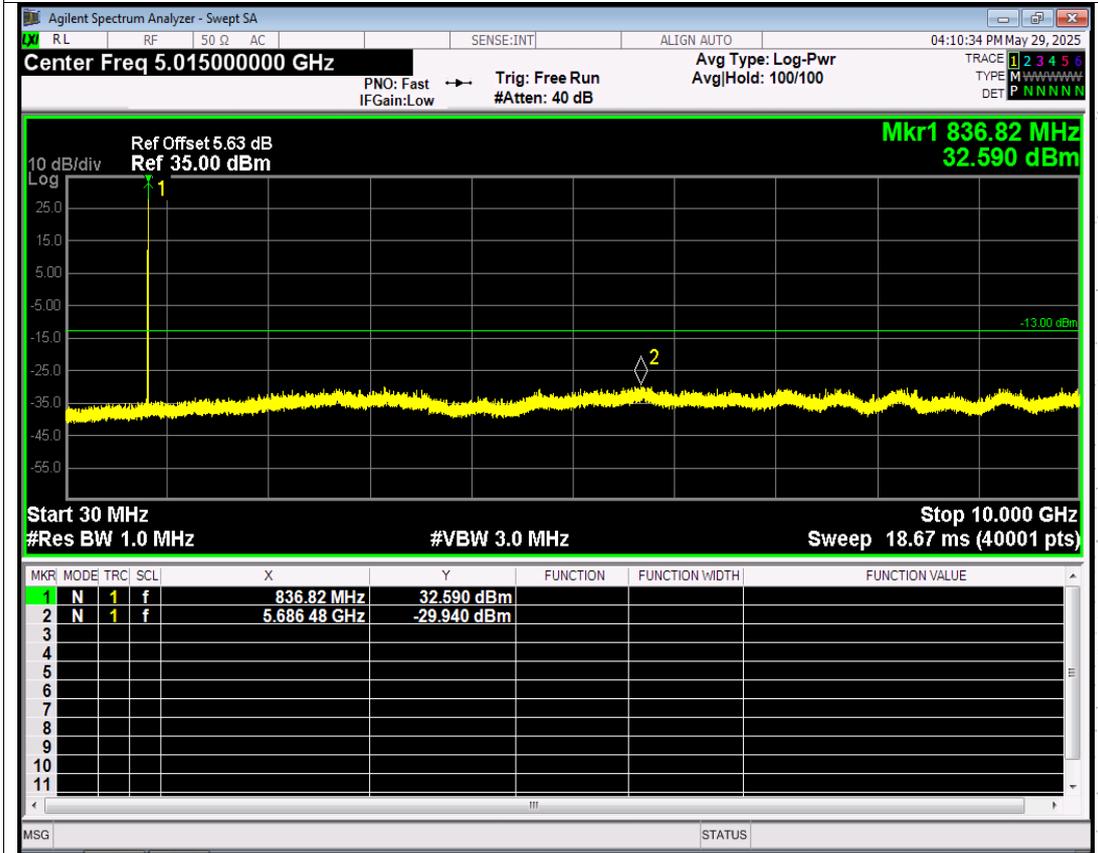
EGPRS1900 Channel=512 NVNT



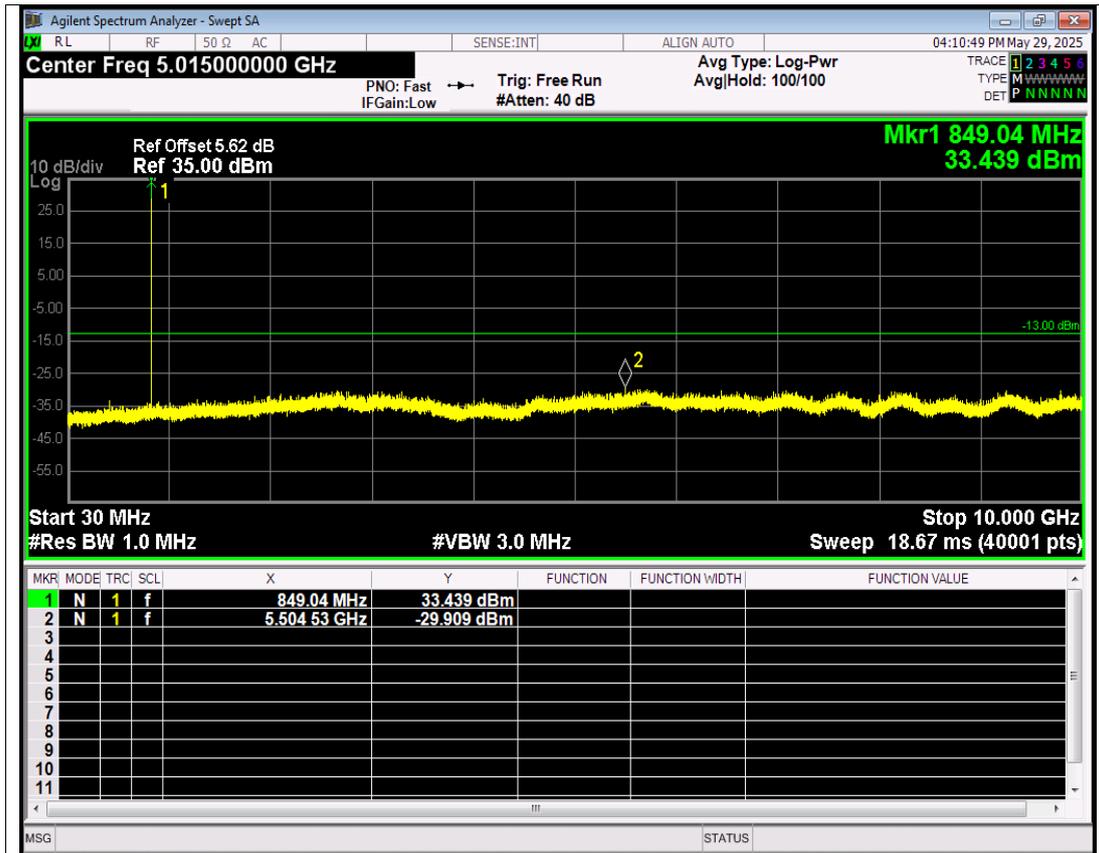
EGPRS1900 Channel=810 NVNT



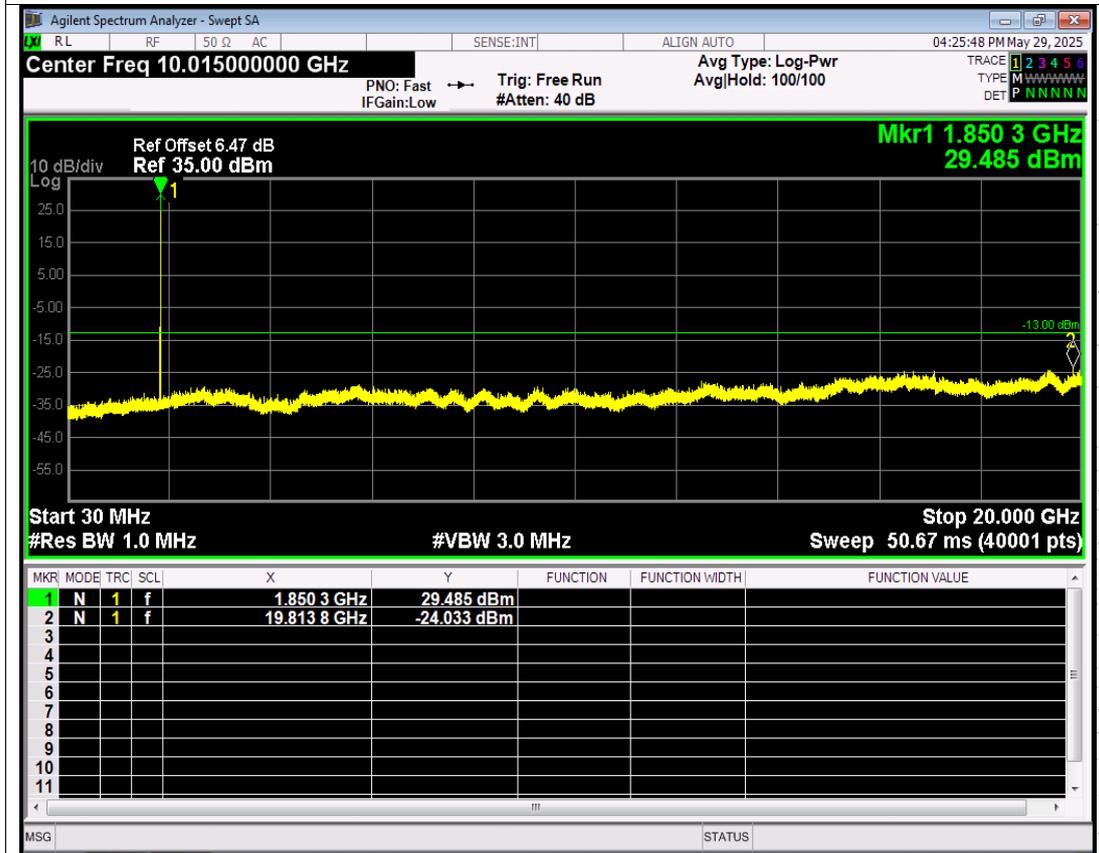
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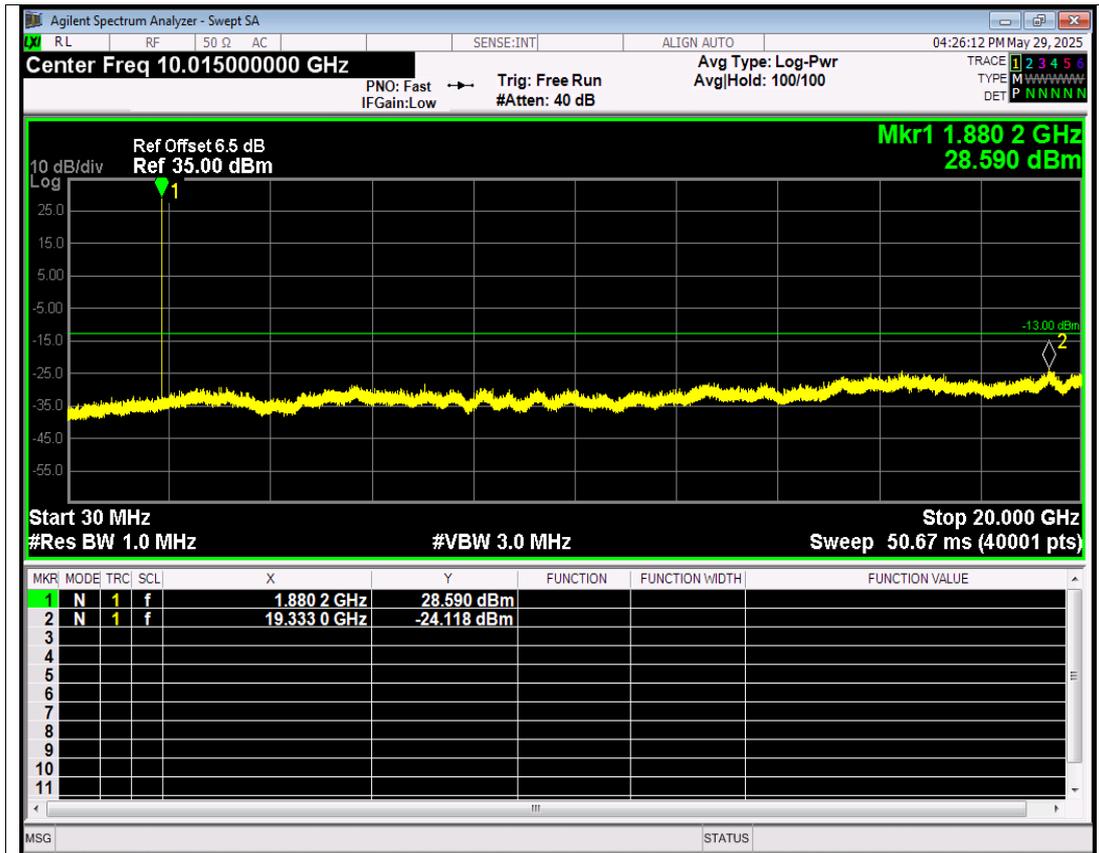
EGPRS850 Channel=190 NVNT



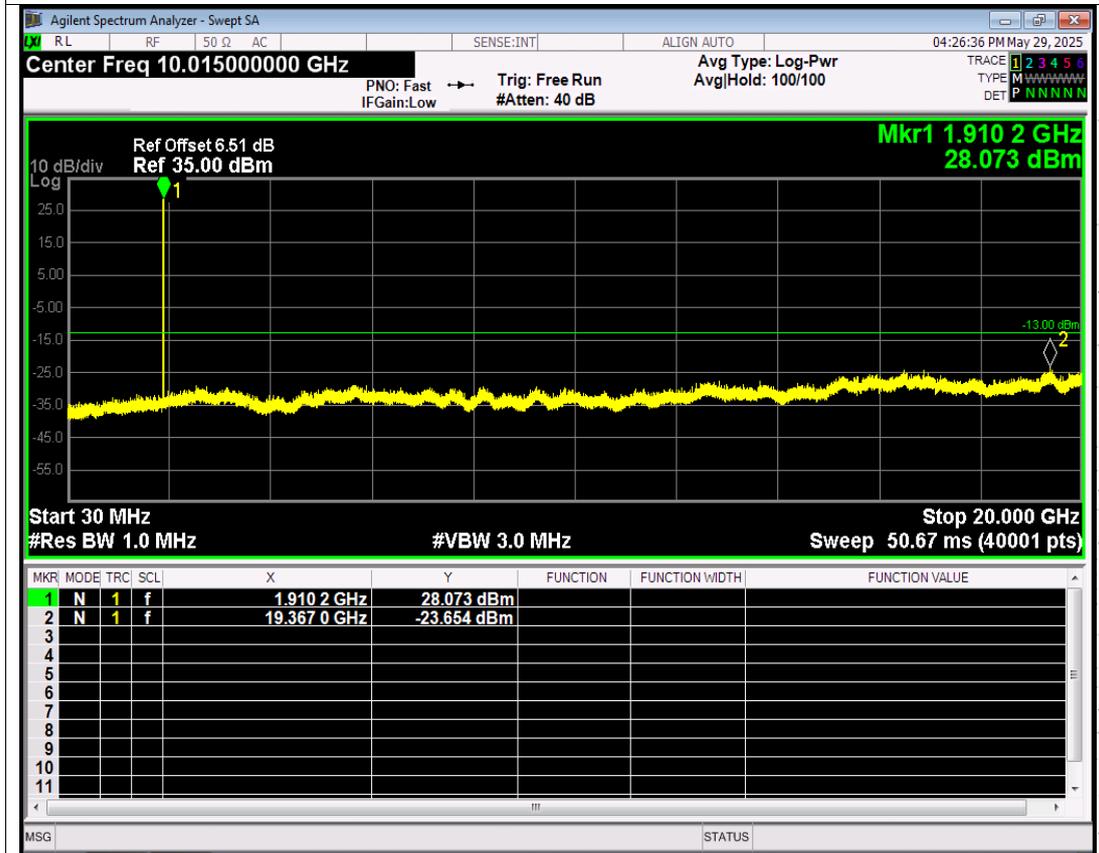
EGPRS850 Channel=251 NVNT



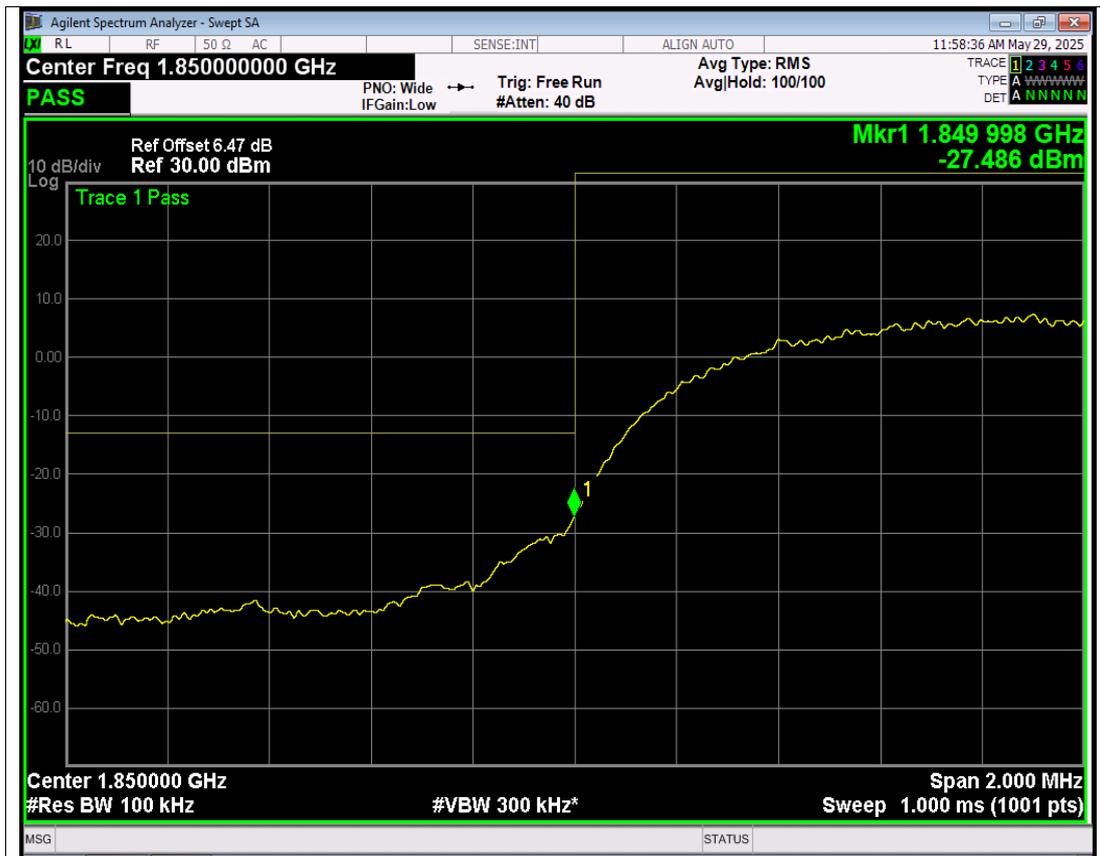
EGPRS1900 Channel=512 NVNT



EGPRS1900 Channel=661 NVNT



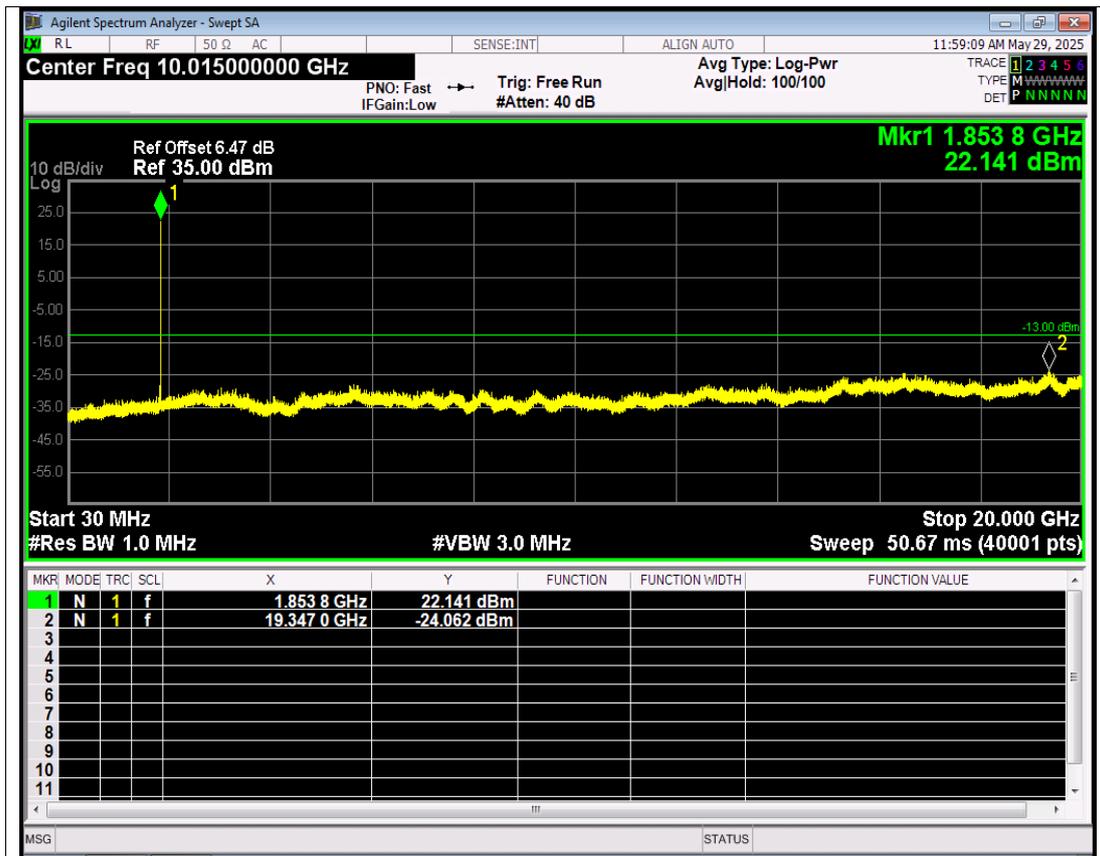
EGPRS1900 Channel=810 NVNT



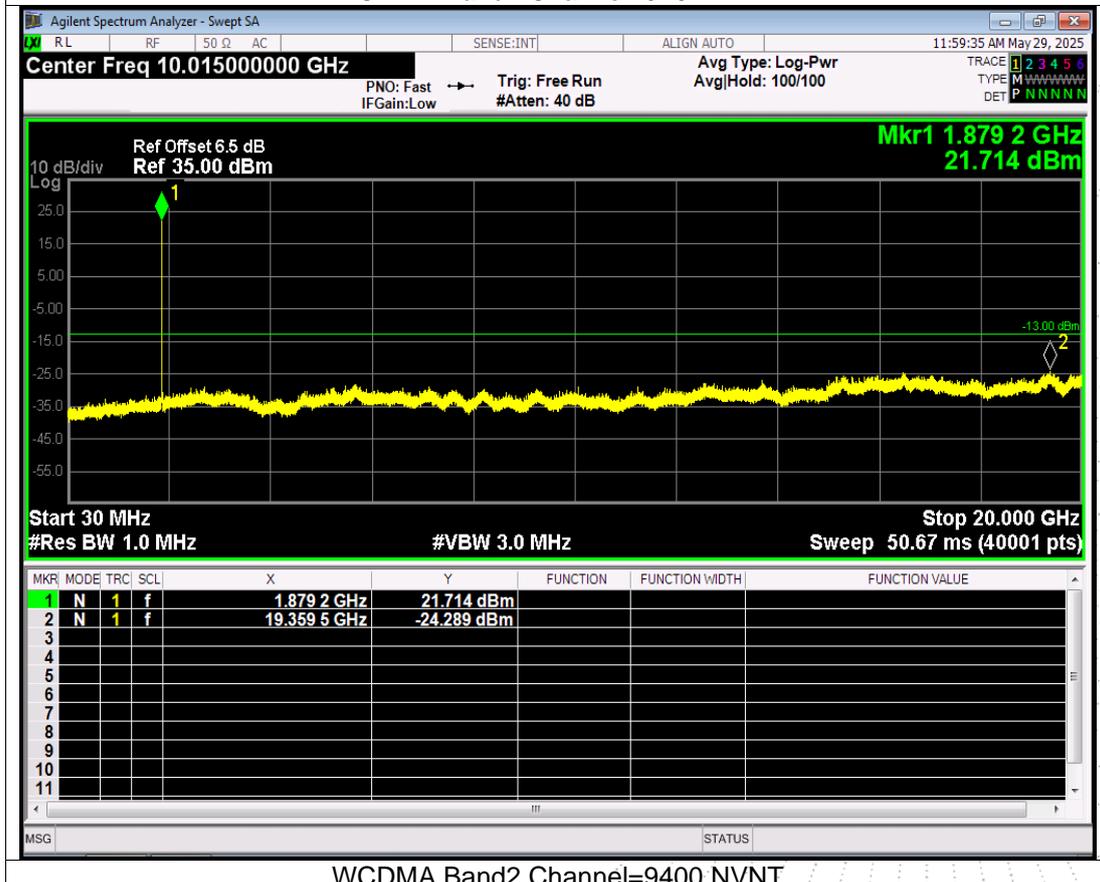
WCDMA Band2 Channel=9262 NVNT



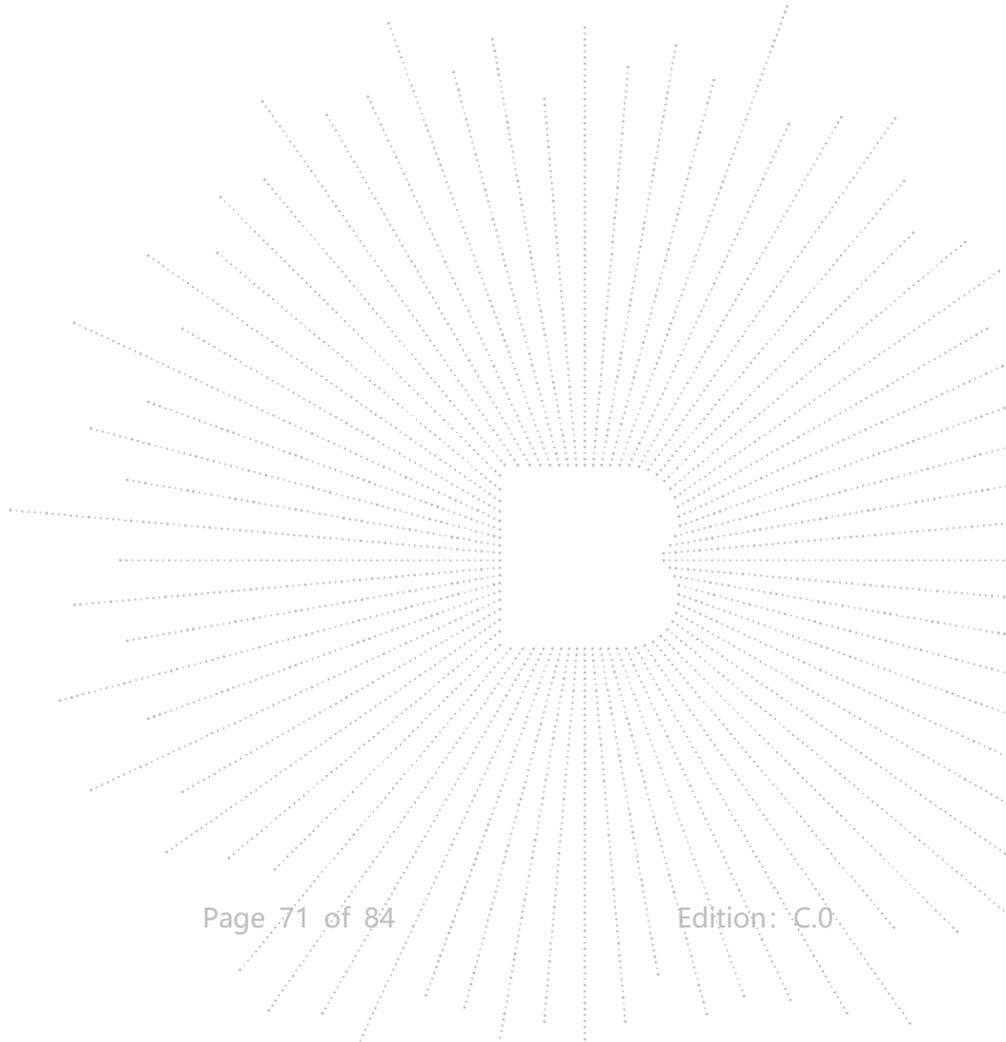
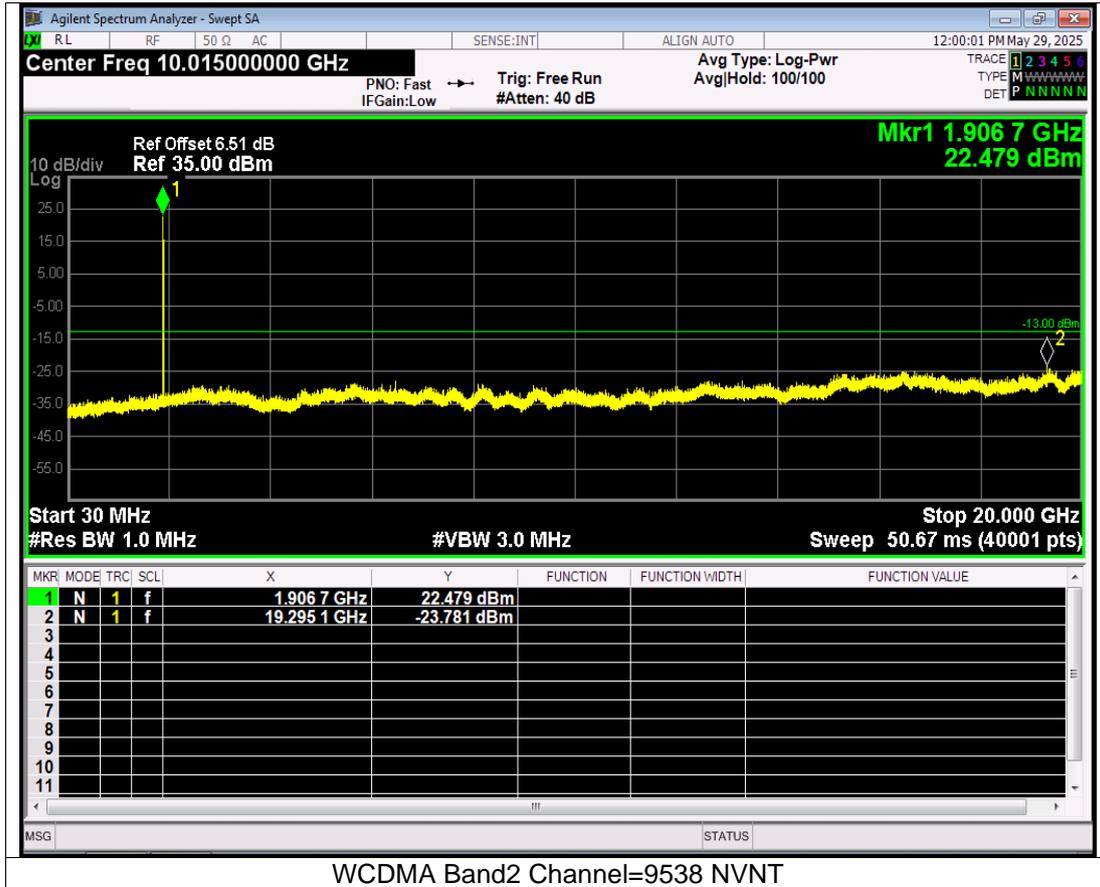
WCDMA Band2 Channel=9538 NVNT

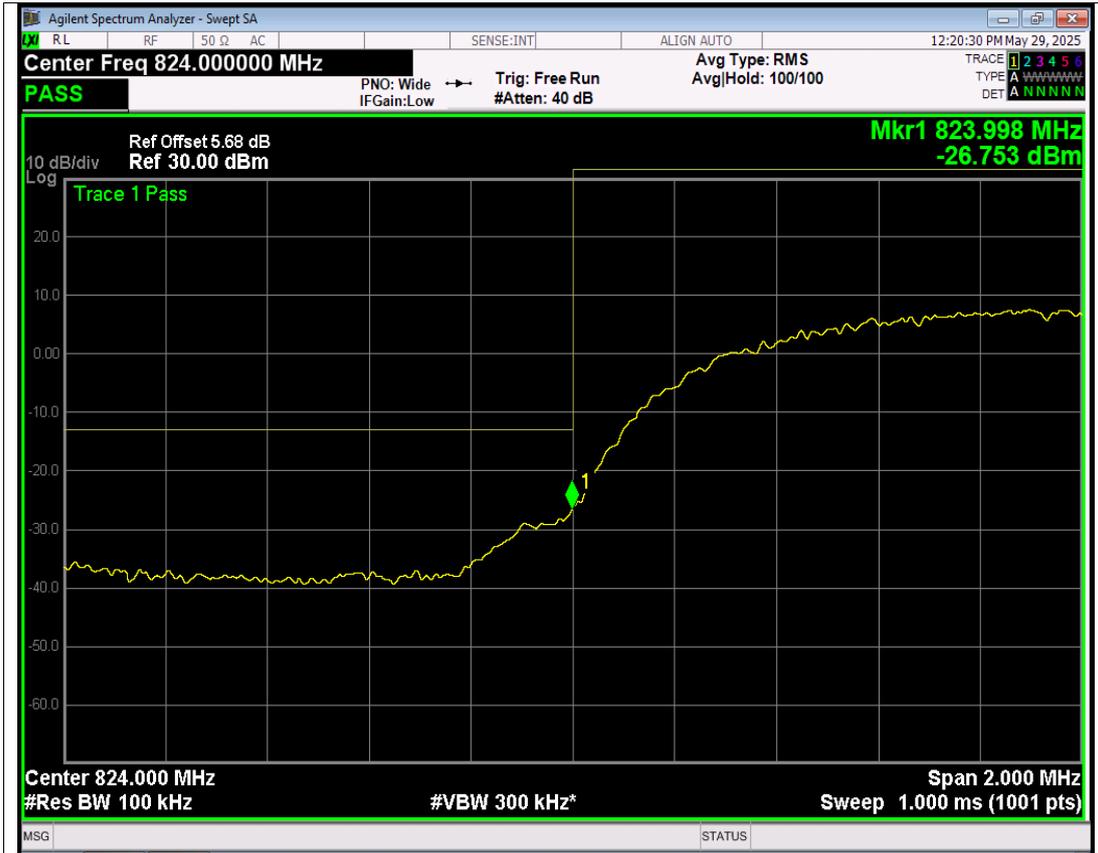


WCDMA Band2 Channel=9262 NVNT



WCDMA Band2 Channel=9400 NVNT

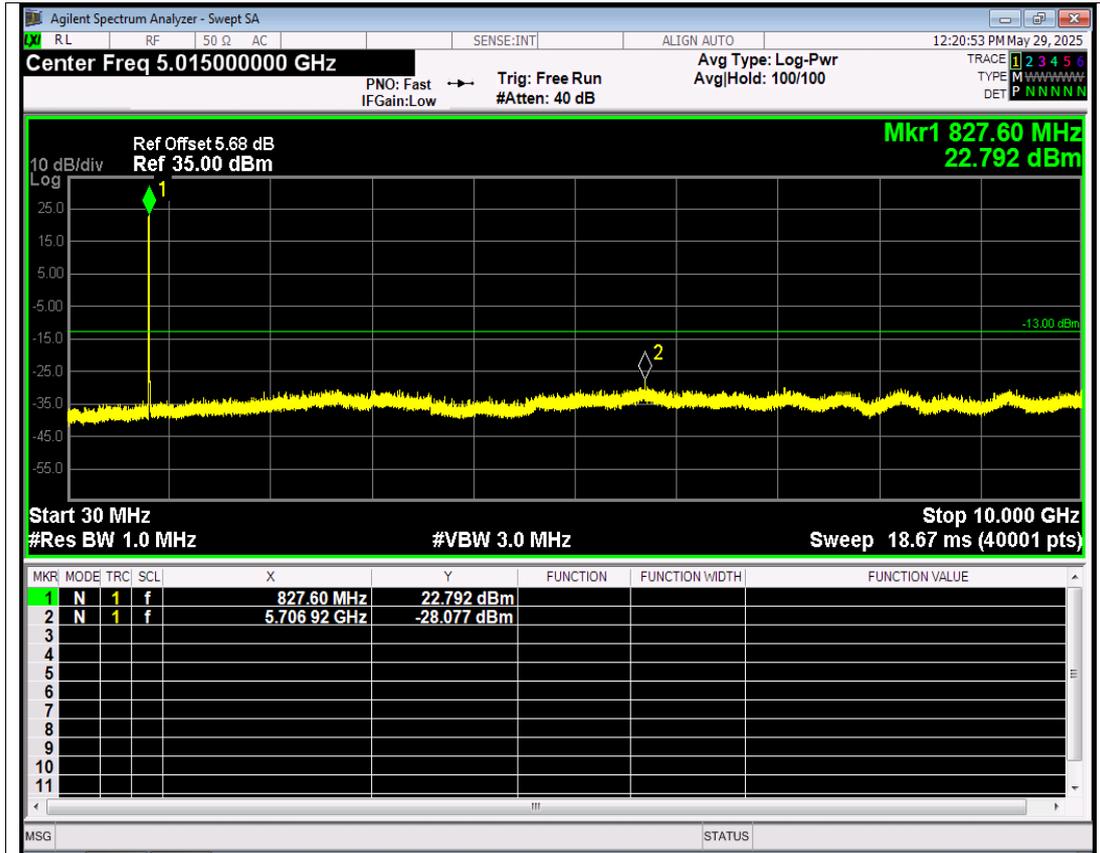




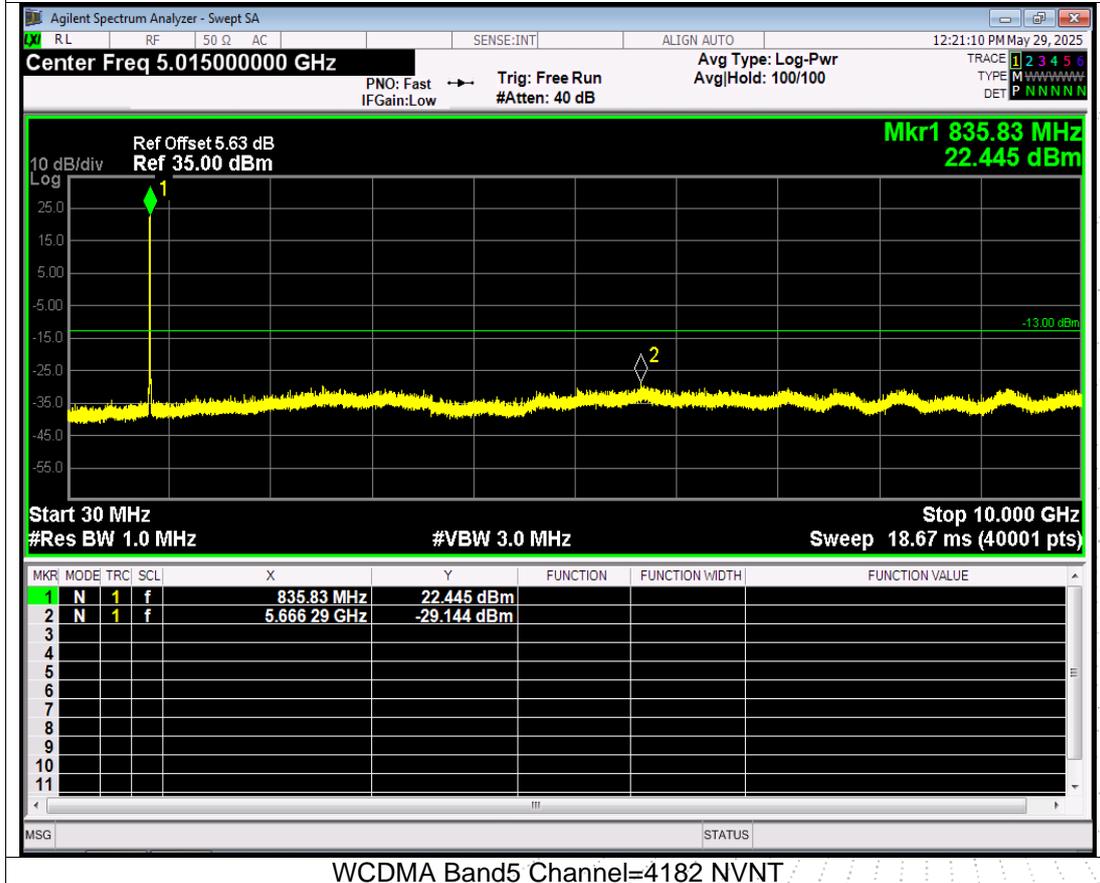
WCDMA Band5 Channel=4132 NVNT



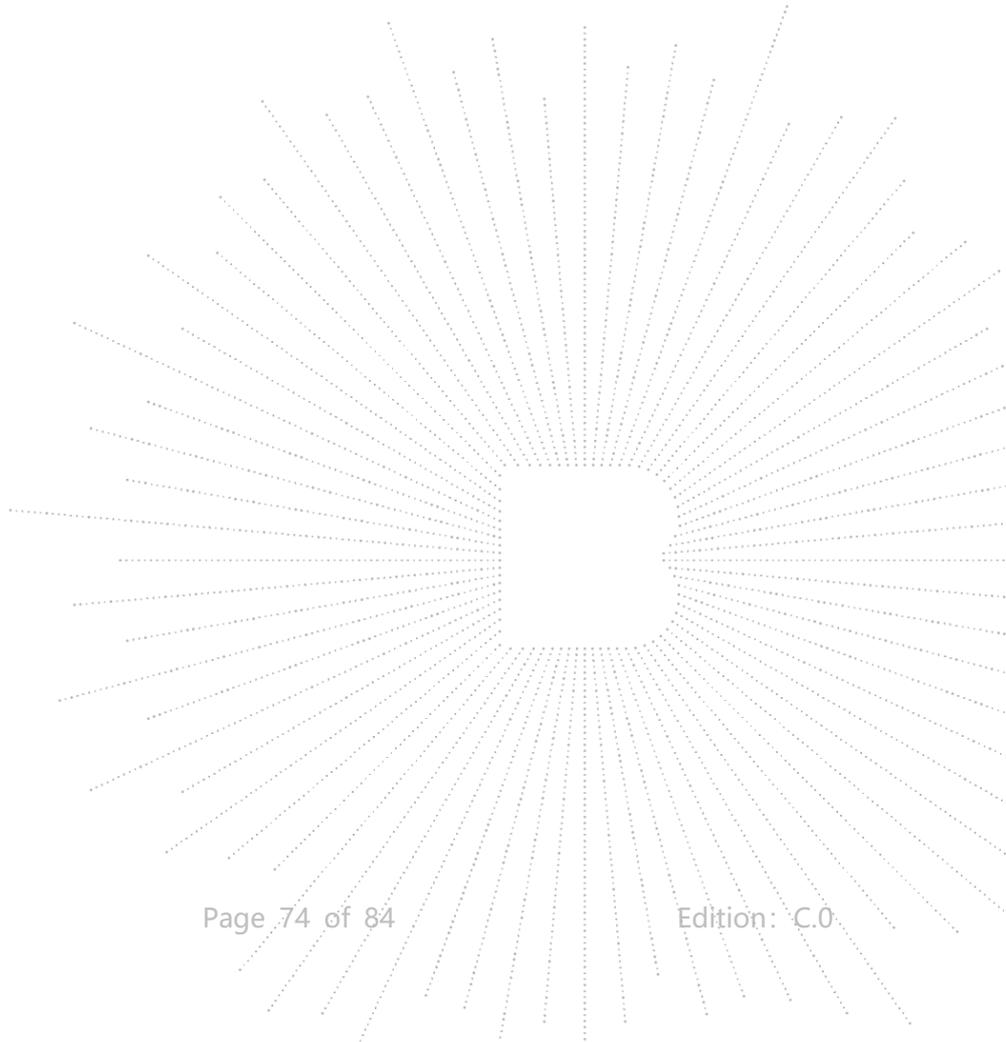
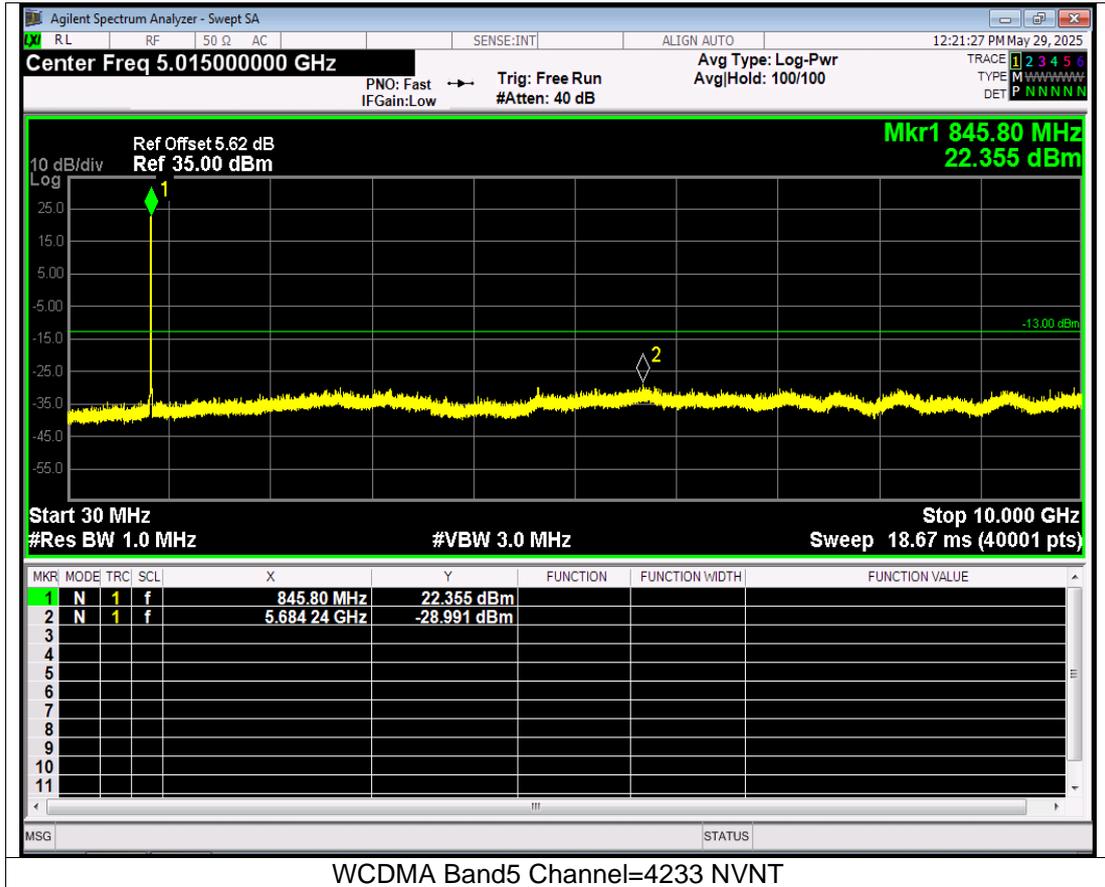
WCDMA Band5 Channel=4233 NVNT



WCDMA Band5 Channel=4132 NVNT



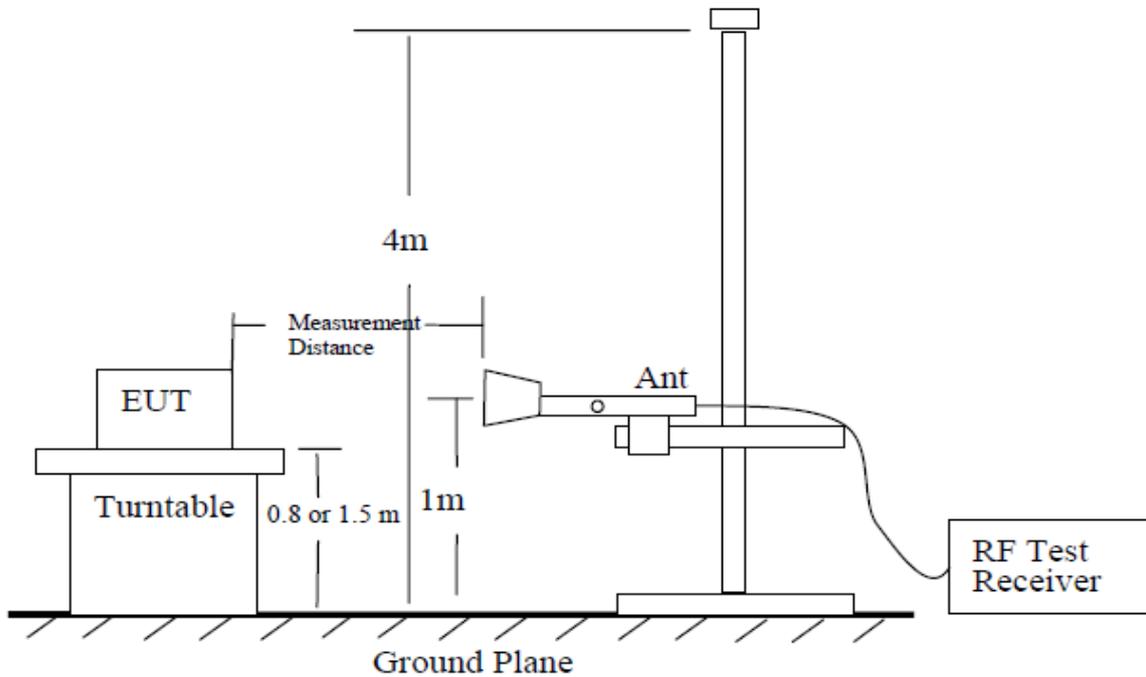
WCDMA Band5 Channel=4182 NVNT



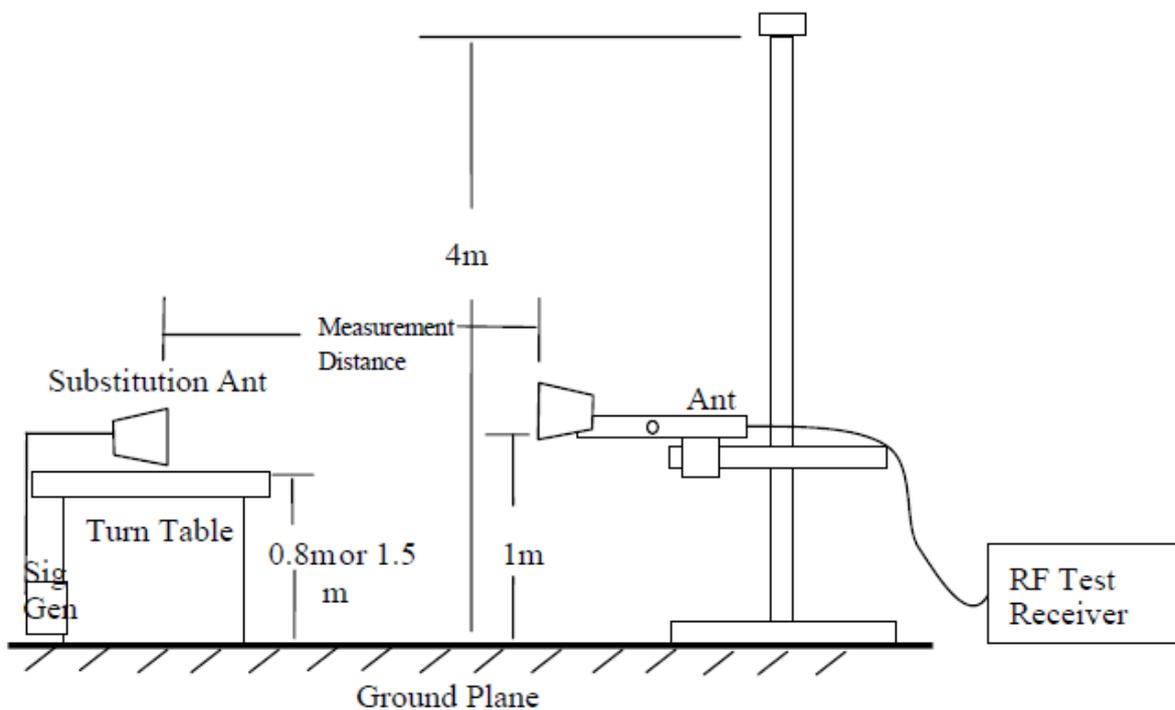
10. Spurious Radiated Emissions

10.1 Block Diagram Of Test Setup

(A) Test site-up for radiated ERP and/or EIRP measurements



(B) Substitution method set-up for radiated emission



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-603-E-2016 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)						
83.95	-13.55	-30.57	-44.12	-13.00	-31.12	H
1648.40	-14.72	-27.29	-42.01	-13.00	-29.01	H
2472.60	-15.54	-25.18	-40.72	-13.00	-27.72	H
83.95	-12.86	-30.57	-43.43	-13.00	-30.43	V
1648.40	-9.59	-27.29	-36.88	-13.00	-23.88	V
2472.60	-11.98	-25.18	-37.16	-13.00	-24.16	V
Middle Channel (836.6MHz)						
83.95	-12.76	-30.57	-43.33	-13.00	-30.33	H
1673.20	-10.82	-27.32	-38.14	-13.00	-25.14	H
2509.80	-9.52	-25.07	-34.59	-13.00	-21.59	H
83.95	-13.42	-30.57	-43.99	-13.00	-30.99	V
1673.20	-9.46	-27.32	-36.78	-13.00	-23.78	V
2509.80	-12.31	-25.07	-37.38	-13.00	-24.38	V
High Channel (848.8MHz)						
83.95	-10.34	-30.57	-40.91	-13.00	-27.91	H
1697.60	-13.21	-27.27	-40.48	-13.00	-27.48	H
2546.40	-14.69	-24.96	-39.65	-13.00	-26.65	H
83.95	-13.41	-30.57	-43.98	-13.00	-30.98	V
1697.60	-9.93	-27.27	-37.20	-13.00	-24.20	V
2546.40	-11.77	-24.96	-36.73	-13.00	-23.73	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)						
83.95	-11.65	-30.57	-42.22	-13.00	-29.22	H
3700.40	-11.31	-22.20	-33.51	-13.00	-20.51	H
5550.60	-13.68	-19.32	-33.00	-13.00	-20.00	H
83.95	-12.28	-30.57	-42.85	-13.00	-29.85	V
3700.40	-10.15	-22.20	-32.35	-13.00	-19.35	V
5550.60	-11.86	-19.32	-31.18	-13.00	-18.18	V
Middle Channel (1880MHz)						
83.95	-14.01	-30.57	-44.58	-13.00	-31.58	H
3760.00	-12.95	-22.08	-35.03	-13.00	-22.03	H
5640.00	-10.84	-19.28	-30.12	-13.00	-17.12	H
83.95	-11.61	-30.57	-42.18	-13.00	-29.18	V
3760.00	-9.47	-22.08	-31.55	-13.00	-18.55	V
5640.00	-12.32	-19.28	-31.60	-13.00	-18.60	V
High Channel (1909.8MHz)						
83.95	-11.81	-30.57	-42.38	-13.00	-29.38	H
3819.60	-14.88	-21.96	-36.84	-13.00	-23.84	H
5729.40	-13.48	-19.24	-32.72	-13.00	-19.72	H
83.95	-10.30	-30.57	-40.87	-13.00	-27.87	V
3819.60	-9.36	-21.96	-31.32	-13.00	-18.32	V
5729.40	-12.37	-19.24	-31.61	-13.00	-18.61	V

Note: The worst data mode is GSM.

For Band WCDMA Band II Mode(RMC)

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (1852.4MHz)						
83.95	-15.02	-30.57	-45.59	-13.00	-32.59	H
3704.80	-14.16	-22.19	-36.35	-13.00	-23.35	H
5557.20	-15.00	-19.32	-34.32	-13.00	-21.32	H
83.95	-10.82	-30.57	-41.39	-13.00	-28.39	V
3704.80	-4.90	-22.19	-27.09	-13.00	-14.09	V
5557.20	-6.78	-19.32	-26.10	-13.00	-13.10	V
Middle Channel (1880MHz)						
83.95	-9.91	-30.57	-40.48	-13.00	-27.48	H
3760.00	-12.34	-22.08	-34.42	-13.00	-21.42	H
5640.00	-14.52	-19.28	-33.80	-13.00	-20.80	H
83.95	-9.69	-30.57	-40.26	-13.00	-27.26	V
3760.00	-8.77	-22.08	-30.85	-13.00	-17.85	V
5640.00	-11.28	-19.28	-30.56	-13.00	-17.56	V
High Channel (1907.6MHz)						
83.95	-13.40	-30.57	-43.97	-13.00	-30.97	H
3815.20	-9.71	-21.97	-31.68	-13.00	-18.68	H
5722.80	-10.34	-19.24	-29.58	-13.00	-16.58	H
83.95	-9.01	-30.57	-39.58	-13.00	-26.58	V
3815.20	-4.93	-21.97	-26.90	-13.00	-13.90	V
5722.80	-7.52	-19.24	-26.76	-13.00	-13.76	V

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

For Band WCDMA Band V Mode (RMC)

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (826.4MHz)						
83.95	-9.33	-30.57	-39.90	-13.00	-26.90	H
1652.80	-9.73	-27.36	-37.09	-13.00	-24.09	H
2479.20	-14.89	-25.16	-40.05	-13.00	-27.05	H
83.95	-13.13	-30.57	-43.70	-13.00	-30.70	V
1652.80	-4.97	-27.36	-32.33	-13.00	-19.33	V
2479.20	-11.00	-25.16	-36.16	-13.00	-23.16	V
Middle Channel (836.4MHz)						
83.95	-14.38	-30.57	-44.95	-13.00	-31.95	H
1672.80	-13.17	-27.32	-40.49	-13.00	-27.49	H
2509.20	-10.60	-25.07	-35.67	-13.00	-22.67	H
83.95	-10.78	-30.57	-41.35	-13.00	-28.35	V
1672.80	-8.79	-27.32	-36.11	-13.00	-23.11	V
2509.20	-10.95	-25.07	-36.02	-13.00	-23.02	V
High Channel (846.6MHz)						
83.95	-13.23	-30.57	-43.80	-13.00	-30.80	H
1693.20	-10.50	-27.27	-37.77	-13.00	-24.77	H
2539.80	-14.56	-24.98	-39.54	-13.00	-26.54	H
83.95	-12.68	-30.57	-43.25	-13.00	-30.25	V
1693.20	-6.54	-27.27	-33.81	-13.00	-20.81	V
2539.80	-10.15	-24.98	-35.13	-13.00	-22.13	V

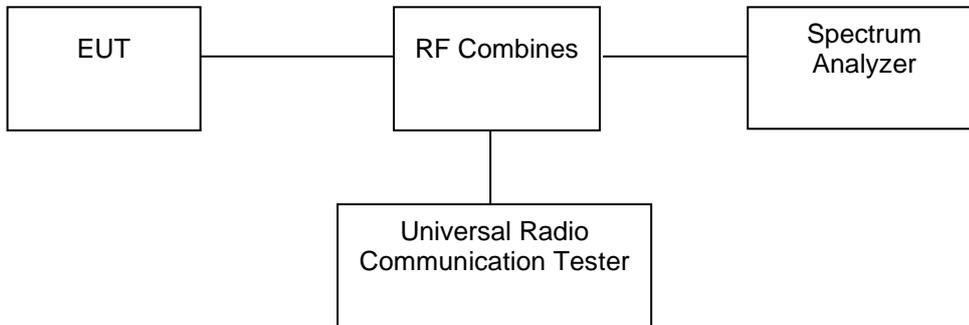
Note: Result=Reading+ Correct, Margin= Result- Limit

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.

Note: All modes have been tested and only the worst mode is represented, with the worst data being Subtest1.

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.

FCC Part 27.54

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

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 (DC 3.87V)	-30	836.60	0.68	0.0008	2.5
			-20	836.60	4.21	0.0050	2.5
			-10	836.60	6.30	0.0075	2.5
			0	836.60	1.80	0.0022	2.5
			10	836.60	7.83	0.0094	2.5
			20	836.60	6.79	0.0081	2.5
			30	836.60	-0.96	-0.0011	2.5
			40	836.60	-1.73	-0.0021	2.5
			50	836.60	4.99	0.0060	2.5
		VL (DC 3.29V)	20	836.60	1.40	0.0017	2.5
		VH (DC 4.45V)	20	836.60	7.35	0.0088	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 (DC 3.87V)	-30	1850.20	17.34	0.0094	Note 3
			-20	1850.20	14.19	0.0077	Note 3
			-10	1850.20	12.71	0.0069	Note 3
			0	1850.20	17.18	0.0093	Note 3
			10	1850.20	17.75	0.0096	Note 3
			20	1850.20	15.82	0.0086	Note 3
			30	1850.20	14.45	0.0078	Note 3
			40	1850.20	14.48	0.0078	Note 3
			50	1850.20	14.85	0.0080	Note 3
		VL (DC 3.29V)	20	1850.20	16.89	0.0091	Note 3
		VH (DC 4.45V)	20	1850.20	12.16	0.0066	Note 3
VERDICT				PASS			

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

Operation Mode	Channel Number	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		Voltage (V)	Temp (°C)				
WCDMA8 50	4132	VN (DC 3.87V)	-30	836.40	13.90	0.0166	2.5
			-20	836.40	15.81	0.0189	2.5
			-10	836.40	15.20	0.0182	2.5
			0	836.40	12.81	0.0153	2.5
			10	836.40	15.16	0.0181	2.5
			20	836.40	11.98	0.0143	2.5
			30	836.40	18.26	0.0218	2.5
			40	836.40	15.30	0.0183	2.5
		50	836.40	12.72	0.0152	2.5	
		VL (DC 3.29V)	20	836.40	14.06	0.0168	2.5
VH (DC 4.45V)	20	836.40	16.39	0.0196	2.5		
VERDICT				PASS			

Operation Mode	Channel Number	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		Voltage (V)	Temp (°C)				
WCDMA1 900	9262	VN (DC 3.87V)	-30	1852.40	15.11	0.0082	Note 4
			-20	1852.40	16.98	0.0092	Note 4
			-10	1852.40	17.19	0.0093	Note 4
			0	1852.40	12.63	0.0068	Note 4
			10	1852.40	18.02	0.0097	Note 4
			20	1852.40	16.14	0.0087	Note 4
			30	1852.40	14.95	0.0081	Note 4
			40	1852.40	14.93	0.0081	Note 4
		50	1852.40	13.04	0.0070	Note 4	
		VL (DC 3.29V)	20	1852.40	12.66	0.0068	Note 4
VH (DC 4.45V)	20	1852.40	13.16	0.0071	Note 4		
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.

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***** END *****