



TEST REPORT

APPLICANT : BLU Products, Inc.
PRODUCT NAME : Smart Phone
MODEL NAME : Studio X9 HD
BRAND NAME : BLU
FCC ID : YHLBLUSTX9HD
STANDARD(S) : 47 CFR Part 22 Subpart H
: 47 CFR Part 24 Subpart E
RECEIPT DATE : 2019-11-28
TEST DATE : 2019-12-04 to 2019-12-10
ISSUE DATE : 2019-12-26

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Change History		
Version	Date	Reason for change
1.0	2019-12-26	First edition

1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	BLU Products, Inc.
Applicant Address:	10814 NW 33rd St # 100 Doral, FL 33172,USA
Manufacturer:	BLU Products, Inc.
ManufacturerAddress:	10814 NW 33rd St # 100 Doral, FL 33172,USA

1.2. Equipment Under Test (EUT) Description

Product Name:	Smart Phone	
Serial No:	(N/A, marked #1 by test site)	
Hardware Version:	S2609D_MAIN_PCB_V1.0	
Software Version:	S2609D_BLU_S7_80_GO_V0.3.2_S191112	
Modulation Type:	GSM/GPRS Mode with GMSK Modulation EDGE Mode with 8PSK Modulation WCDMA Mode with QPSK Modulation HSDPA Mode with QPSK Modulation HSUPA Mode with QPSK Modulation	
Operating Frequency Range:	GSM 850MHz: Tx: 824.20 - 848.80MHz Rx: 869.20 - 893.80MHz GSM 1900MHz: Tx: 1850.20 - 1909.80MHz Rx: 1930.20 - 1989.80MHz WCDMA Band V Tx: 826.4 - 846.6MHz Rx: 871.4 - 891.6MHz WCDMA Band II Tx: 1852.4 - 1907.6MHz Rx: 1932.4 - 1987.6MHz	
Antenna Type:	Fixed Internal	
Antenna Gain:	GSM 850:	-3.50 dBi
	GSM1900:	-2.00 dBi

	WCDMA Band V:	-3.50 dBi
	WCDMA Band II:	-2.00 dBi
Accessory Information:	Battery	
	Brand Name:	UTILITY
	Model No.:	C795344200L
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	2000mAh
	Rated Voltage:	3.80V
	Charge Limit:	4.35V
	AC Adapter 1	
	Brand Name:	TIANYIN
	Model No.:	US-WT-1000
	Serial No.:	(N/A, marked #1 by test site)
	Rated Input:	100-240V~50/60Hz 0.2A
	Rated Output:	5V=1.0A

Note 1: The transmitter (Tx) frequency arrangement of the Cellular 850MHz band used by the EUT can be represented with the formula $F(n)=824.2+0.2*(n-128)$, $128 \leq n \leq 251$; the lowest, middle, highest channel numbers (ARFCHs) used and tested in this report are separately 128 (824.2MHz), 190(836.6MHz) and 251 (848.8MHz).

Note 2: The transmitter (Tx) frequency arrangement of the PCS 1900MHz band used by the EUT can be represented with the formula $F(n)=1850.2+0.2*(n-512)$, $512 \leq n \leq 810$; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 512 (1850.2MHz), 661 (1880.0MHz) and 810 (1909.8MHz).

Note 3: The transmitter (Tx) frequency arrangement of the WCDMA Band V used by the EUT can be represented with the formula $F(n)=826.4+0.2*(n-4132)$, $4132 \leq n \leq 4233$; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 4132 (826.4MHz), 4182(836.4MHz) and 4233 (846.6MHz).

Note 4: The transmitter (Tx) frequency arrangement of the WCDMA Band II used by the EUT can be represented with the formula $F(n)=1852.4+0.2*(n-9262)$, $9262 \leq n \leq 9538$; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 9262 (1852.4MHz), 9400 (1880MHz) and 9538 (1907.6MHz).

Note 5: All modes and data rates were considered and evaluated respectively by performing full test. Test modes are chosen to be reported as the worst case below:

GPRS mode and EDGE mode for GSM 850;

GPRS mode and EDGE mode for GSM 1900;

WCDMA mode for WCDMA band V;

WCDMA mode for WCDMA band II;

Note 6: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.3. Maximum ERP/EIRP and Emission Designator

System	Maximum ERP/EIRP (W)	Emission Designator
GSM850	0.582	247KGXW
EDGE850	0.568	251KG7W
GSM1900	0.692	251KGXW
EDGE1900	0.338	250KG7W
WCDMA Band V	0.053	4M16F9W
WCDMA Band II	0.121	4M17F9W

1.4. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2, Part 22, Part 24 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2(10-1-12 Edition)	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22(10-1-12 Edition)	Public Mobile Services
3	47 CFR Part 24(10-1-12 Edition)	Personal Communications Services

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Method determination/ Remark
1	2.1046	Conducted RF Output Power	Dec04, 2019	Gao Mingzhou	PASS	No deviation
2	24.232(d)	Peak -Average Ratio	Dec05 - 09, 2019	Gao Mingzhou	PASS	No deviation
3	2.1049	99% Occupied Bandwidth	Dec05 - 09, 2019	Gao Mingzhou	PASS	No deviation
4	2.1055,22.355, 24.235,	Frequency Stability	Dec05 - 09, 2019	Gao Mingzhou	PASS	No deviation
5	2.1051,22.917(a),24.238(a),	Conducted Out of Band Emissions	Dec05 - 09, 2019	Gao Mingzhou	PASS	No deviation
6	2.1051,22.917(a),24.238(a),	Band Edge	Dec05 - 09, 2019	Gao Mingzhou	PASS	No deviation
7	22.913(a), 24.232(a)	Transmitter Radiated Power (EIPR/ERP)	Dec10, 2019	PengXuewei	PASS	No deviation
8	2.1051,22.917(a),24.238(a)	Radiated Out of Band Emissions	Dec 10, 2019	PengXuewei	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016.

Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 26.5dB contains two parts that cable loss 16.5dB and Attenuator 10dB.

1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

2. 47 CFR Part 2, Part 22H , 24E&27L Requirements

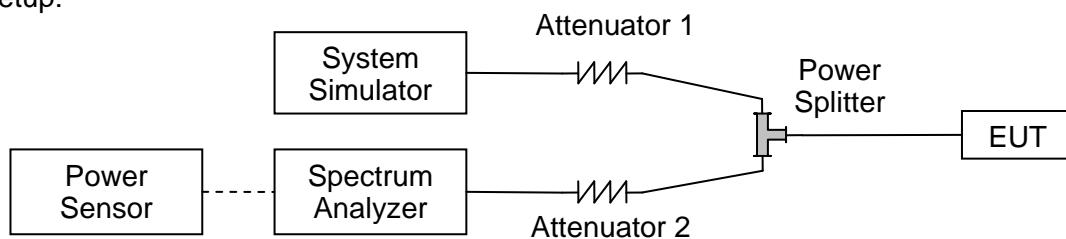
2.1. Conducted RF Output Power

2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

2.1.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

2.1.3. Test Results

GSM850	Average Power (dBm)		
TX Channel	128	190	251
Frequency (MHz)	824.2	836.6	848.8
GSM 1 Tx slot	33.29	33.30	33.26
GPRS 1 Tx slot	33.27	33.28	33.25
GPRS 2 Tx slots	32.27	32.29	32.34
GPRS 3 Tx slots	30.45	30.44	30.48
GPRS 4 Tx slots	27.41	27.44	27.39
EDGE 1 Tx slot	33.18	33.19	33.17
EDGE 2 Tx slots	32.17	32.19	32.25
EDGE 3 Tx slots	30.35	30.39	30.41
EDGE 4 Tx slots	27.38	27.46	27.50

GSM1900	Average Power (dBm)		
TX Channel	512	661	810
Frequency (MHz)	1850.2	1880	1909.8
GSM 1 Tx slot	30.40	30.37	30.26
GPRS 1 Tx slot	30.39	30.35	30.24
GPRS 2 Tx slots	29.55	29.51	29.43
GPRS 3 Tx slots	27.85	27.80	27.65
GPRS 4 Tx slots	26.92	26.89	26.78
EDGE 1 Tx slot	27.29	27.25	27.11
EDGE 2 Tx slots	27.20	27.15	27.03
EDGE 3 Tx slots	27.10	27.03	26.86
EDGE 4 Tx slots	26.94	26.88	26.75

WCDMA Band V	Average Power (dBm)		
TX Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2Kbps	22.86	22.63	22.70
HSDPA Subtest-1	21.23	21.13	21.21
HSDPA Subtest-2	21.2	21.11	21.23
HSDPA Subtest-3	20.73	20.64	20.76
HSDPA Subtest-4	20.71	20.63	20.75
HSUPA Subtest-1	19.76	19.71	19.73
HSUPA Subtest-2	19.25	19.2	19.27
HSUPA Subtest-3	20.23	20.18	20.23
HSUPA Subtest-4	18.76	18.66	18.72
HSUPA Subtest-5	21.24	21.17	21.22

WCDMA Band II	Average Power (dBm)		
TX Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2Kbps	22.82	22.70	22.69
HSDPA Subtest-1	21.36	21.26	21.34
HSDPA Subtest-2	21.32	21.23	21.33
HSDPA Subtest-3	20.86	20.75	20.85
HSDPA Subtest-4	20.83	20.57	20.82
HSUPA Subtest-1	19.90	19.76	19.85
HSUPA Subtest-2	19.37	18.75	19.32
HSUPA Subtest-3	20.39	20.20	20.28
HSUPA Subtest-4	18.85	18.75	18.79
HSUPA Subtest-5	21.37	21.20	21.32

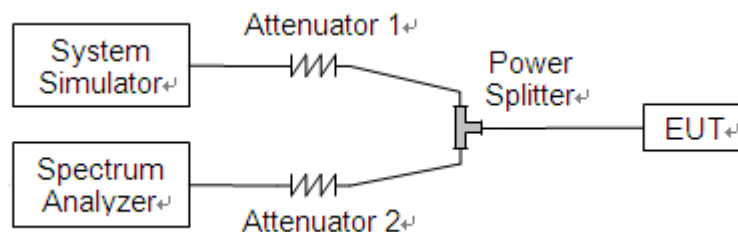
2.2. Peak to Average Ratio

2.2.1. Requirement

According to FCC 24.232(d) the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

2.2.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

2.2.3. Test procedure

1 .For GSM/EDGE operating mode:

- a. Set RBW=1MHz, VBW=3MHz, peak detector in spectrum analyzer.
- b. Set EUT in maximum output power, and triggered the bust signal.
- c. Measured respectively the peak level and mean level, and the deviation was recorded as Peak to Average ratio.

2.For UMTS operating mode:

- a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1%.

2.2.4. Test Result

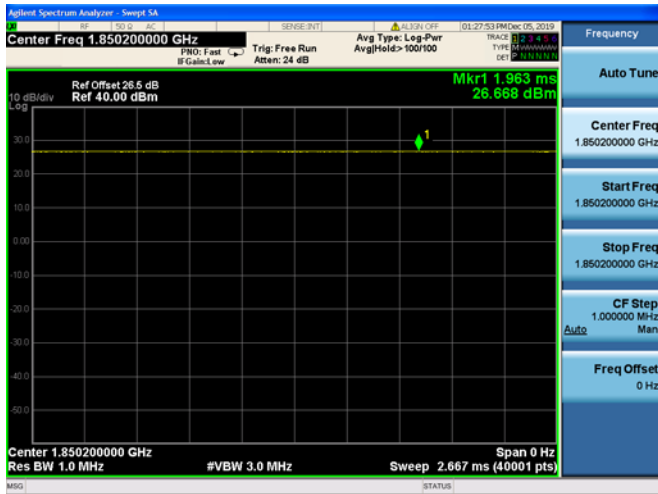
The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

A. Test Verdict:

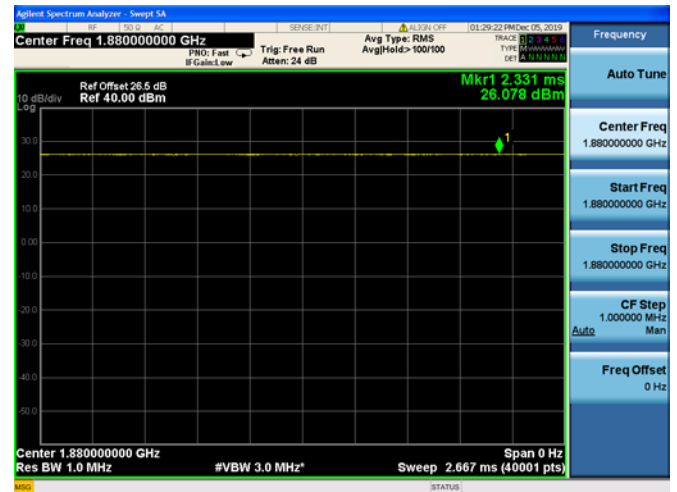
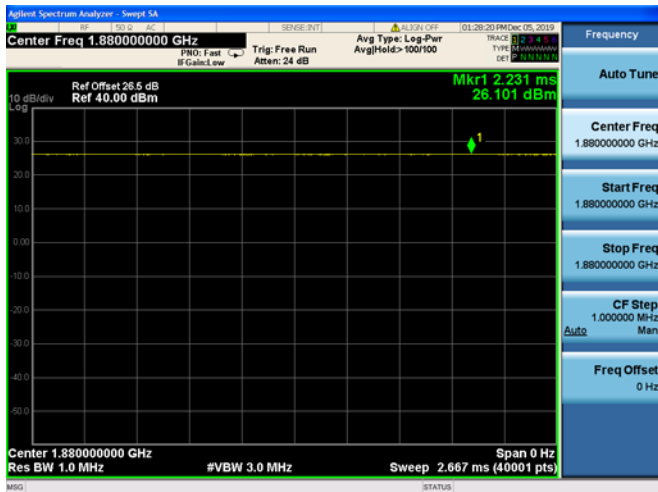
Band	Channel	Frequency (MHz)	Peak to Average ratio	Limit	Verdict
			dB	dB	
GSM 1900MHz	512	1850.2	0.026	13	PASS
	661	1880.0	0.023		PASS
	810	1909.8	0.009		PASS
EDGE 1900MHz	512	1850.2	0.020		PASS
	661	1880.0	0.003		PASS
	810	1909.8	0.008		PASS

Band	Channel	Frequency (MHz)	Peak to Average ratio	Limit	Verdict
			dB	dB	
WCDMA Band II	9262	1852.4	2.86	13	PASS
	9400	1880.0	3.00		PASS
	9538	1907.6	2.61		PASS

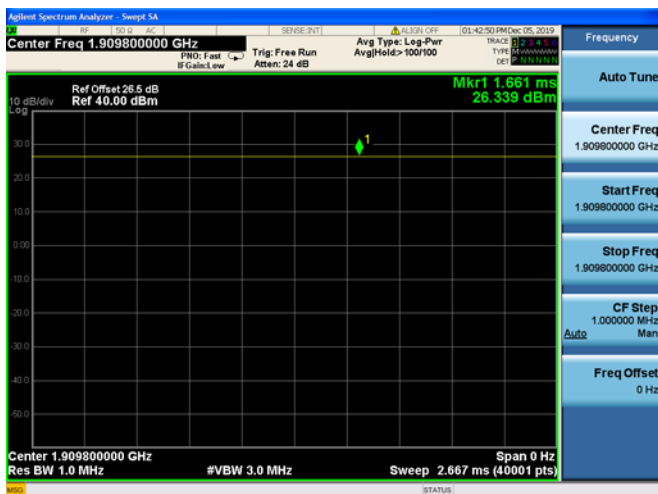
GSM 1900MHz CH512 1850.2MHz



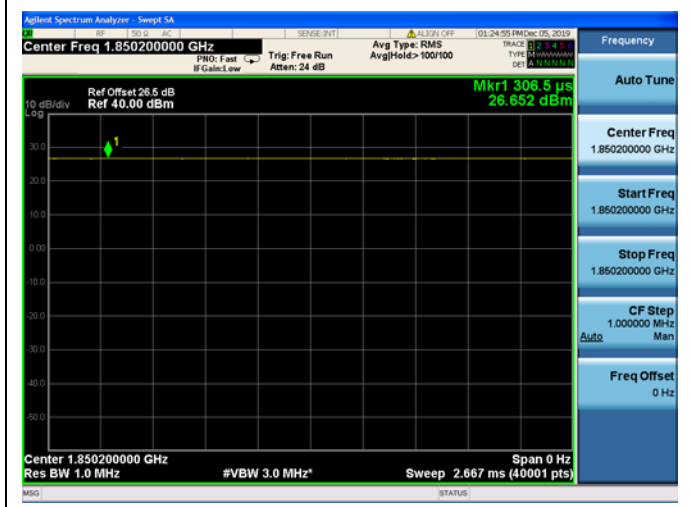
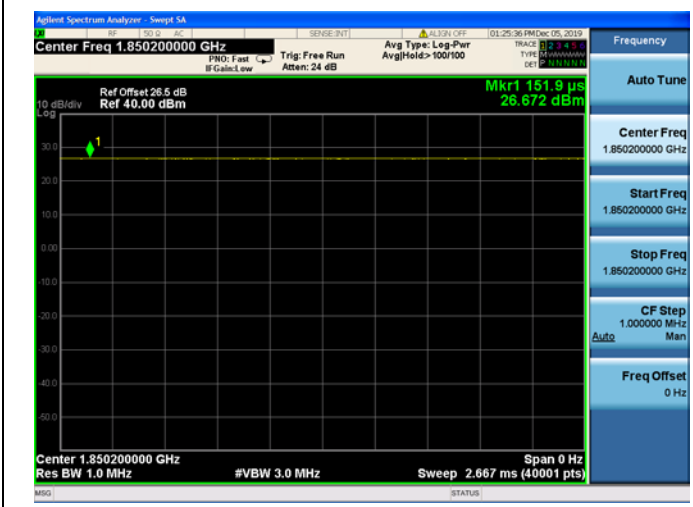
GSM 1900MHz CH661 1880.0MHz



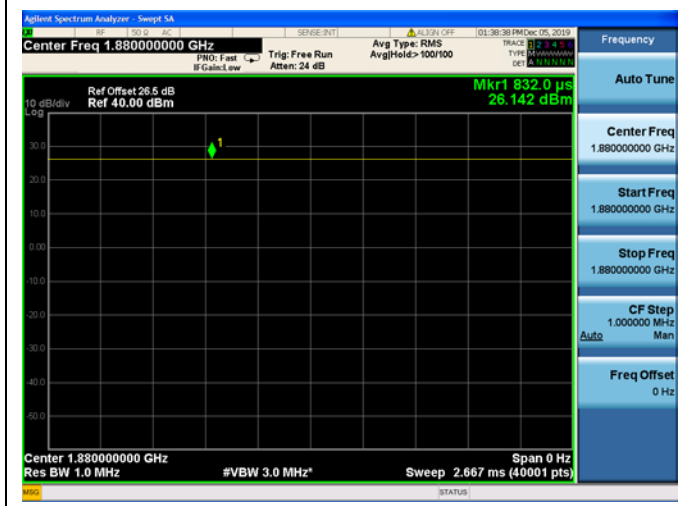
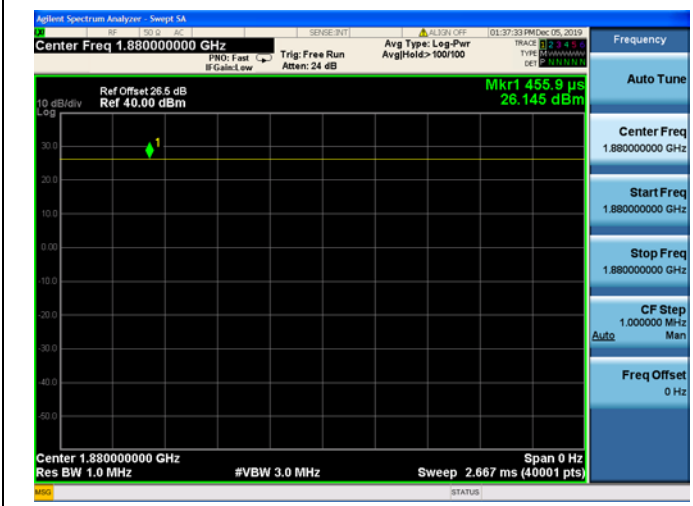
GSM 1900MHz CH810 1909.8MHz



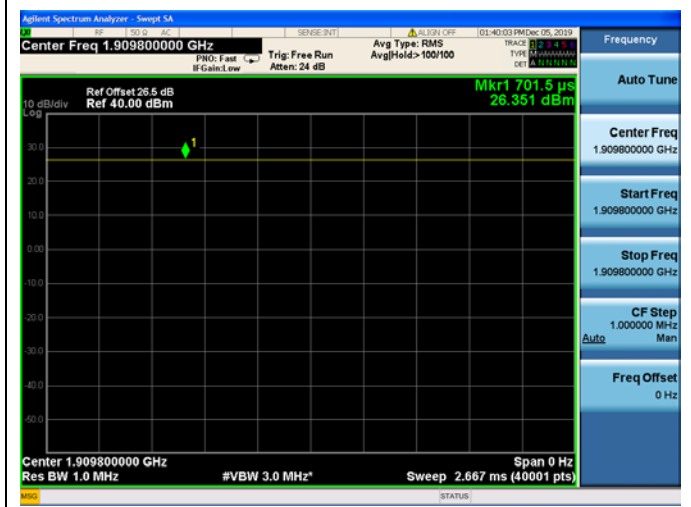
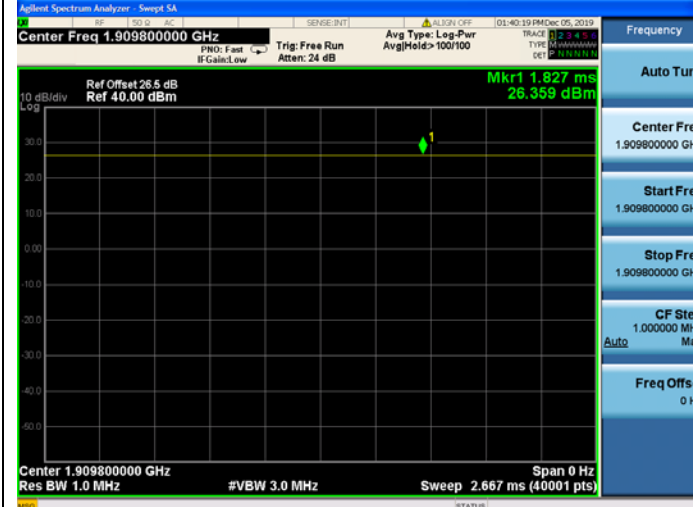
EDGE 1900MHz CH512 1850.2MHz

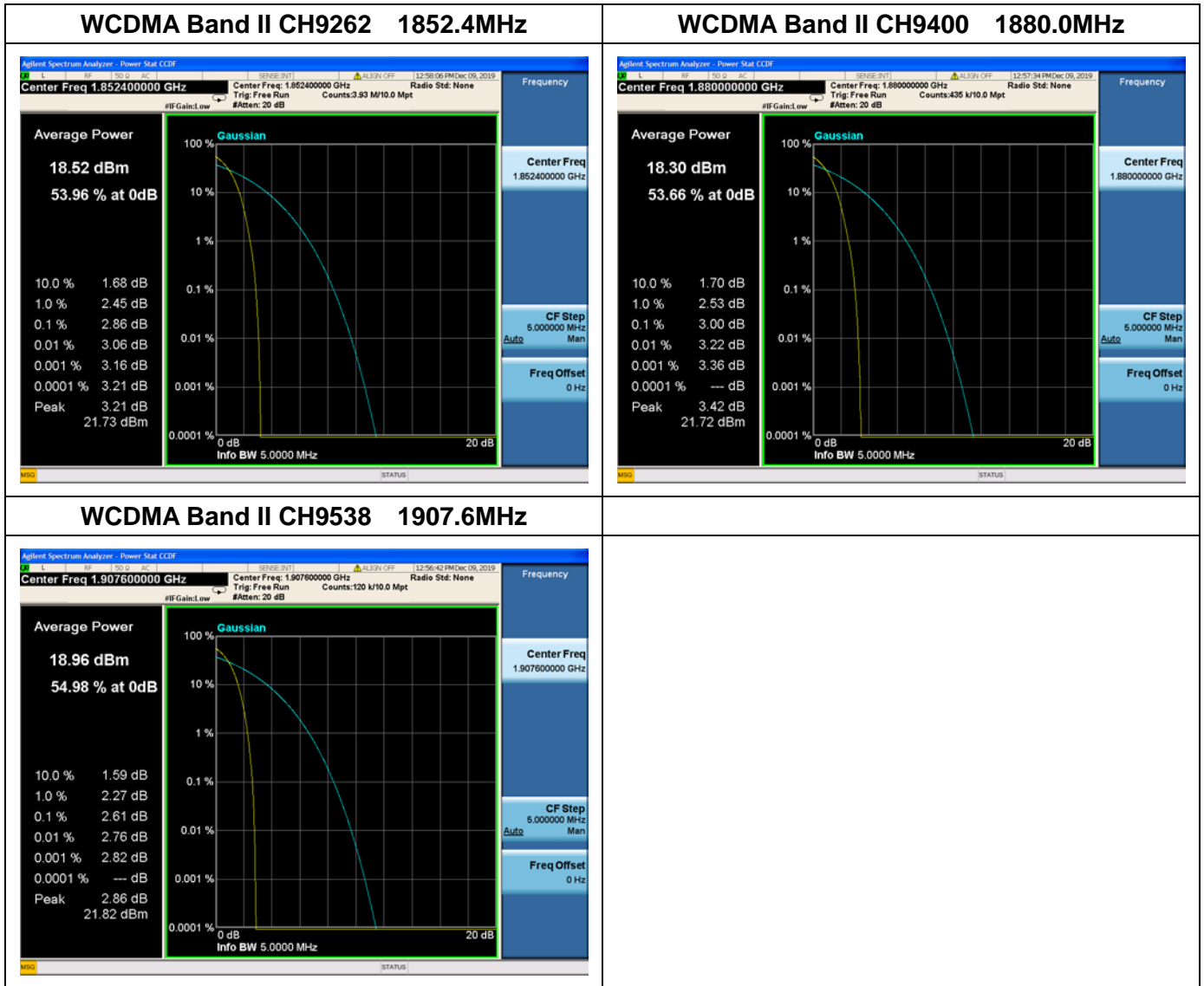


EDGE 1900MHz CH661 1880.0MHz



EDGE 1900MHz CH810 1909.8MHz





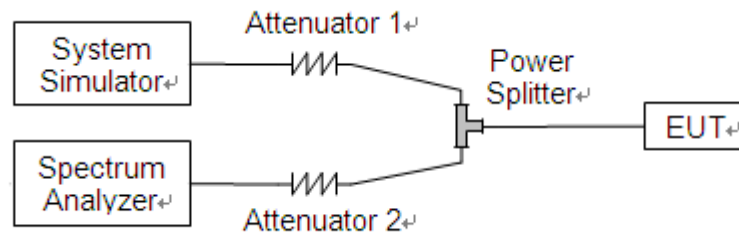
2.3. 99% Occupied Bandwidth

2.3.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.3.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

2.3.3. Test Result

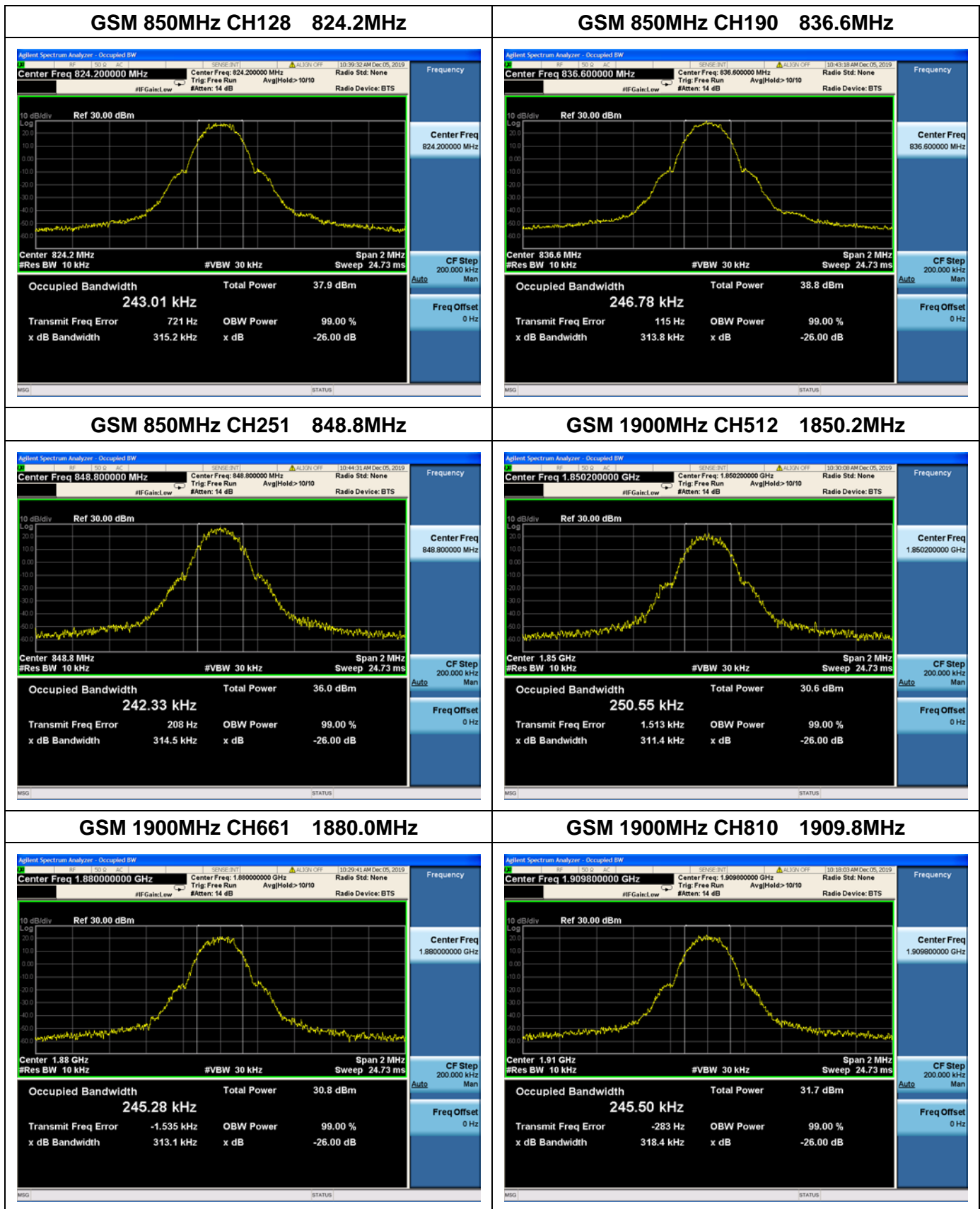
The lowest, middle and highest channels are selected to perform testing to record the 99% occupied bandwidth.

GSM Test Verdict:

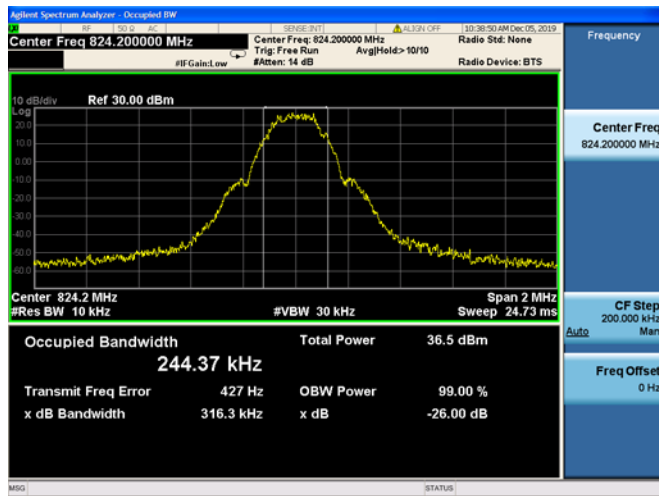
Band	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)
GSM 850MHz	128	824.2	243.01	315.2
	190	836.6	246.78	313.8
	251	848.8	242.33	314.5
GSM 1900MHz	512	1850.2	250.55	311.4
	661	1880.0	245.28	313.1
	810	1909.8	245.50	318.4
EDGE 850MHz	128	824.2	244.37	316.3
	190	836.6	251.12	315.3
	251	848.8	242.77	318.4
EDGE 1900MHz	512	1850.2	241.46	314.4
	661	1880.0	249.69	317.0
	810	1909.8	244.95	316.0

WCDMA Test Verdict:

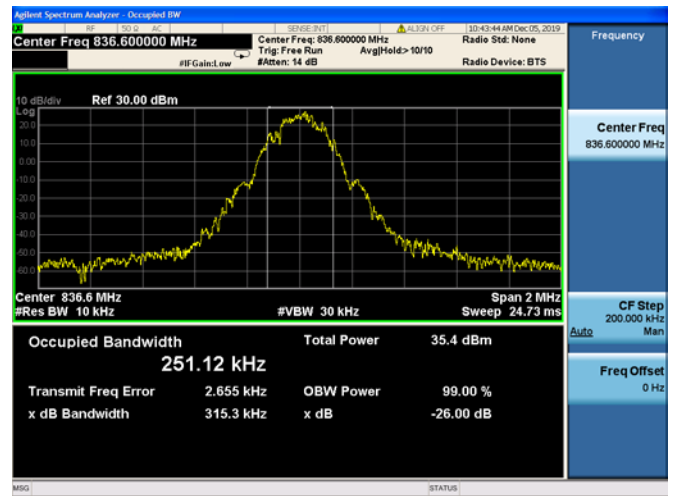
Band	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
WCDMA Band V	4132	826.4	4.164	4.686
	4183	836.4	4.158	4.650
	4233	846.6	4.154	4.665
WCDMA Band II	9262	1852.4	4.155	4.682
	9400	1880.0	4.156	4.672
	9538	1907.6	4.166	4.681



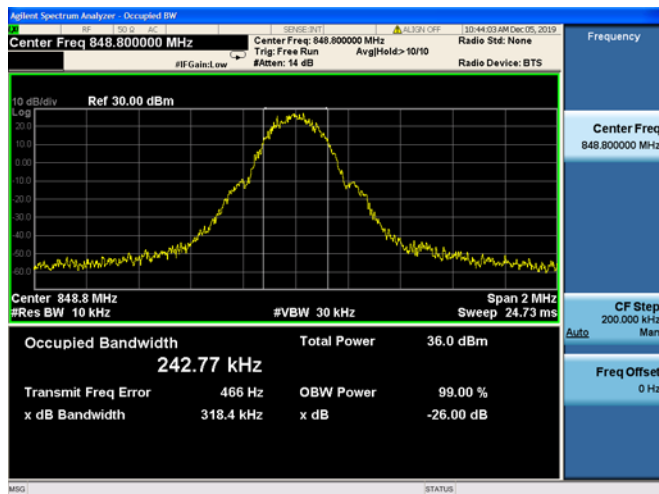
EDGE 850MHz CH128 824.2MHz



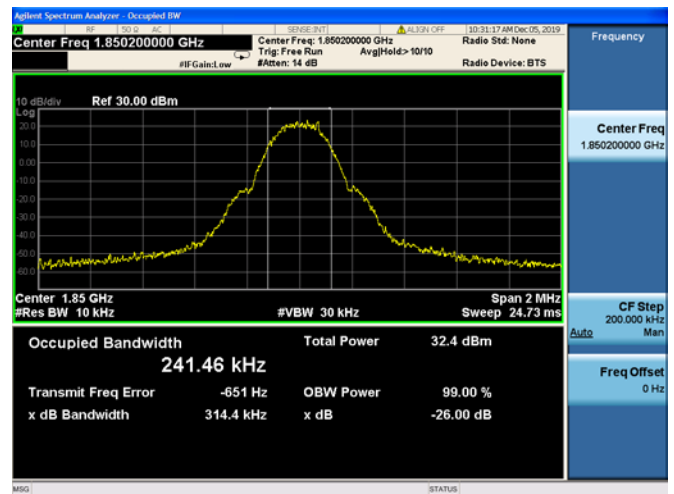
EDGE 850MHz CH190 836.6MHz



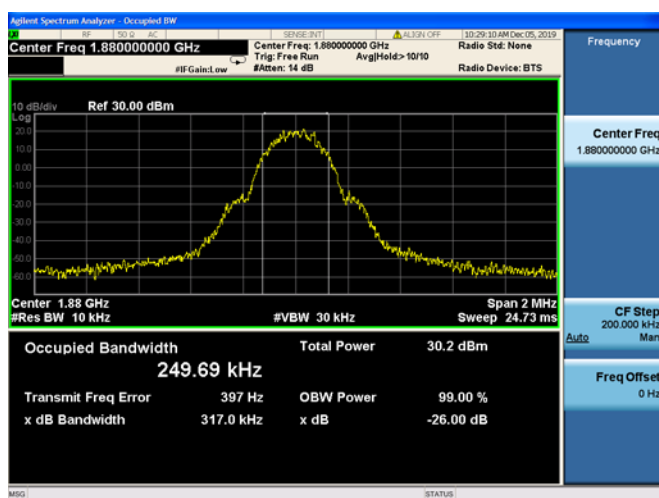
EDGE 850MHz CH251 848.8MHz



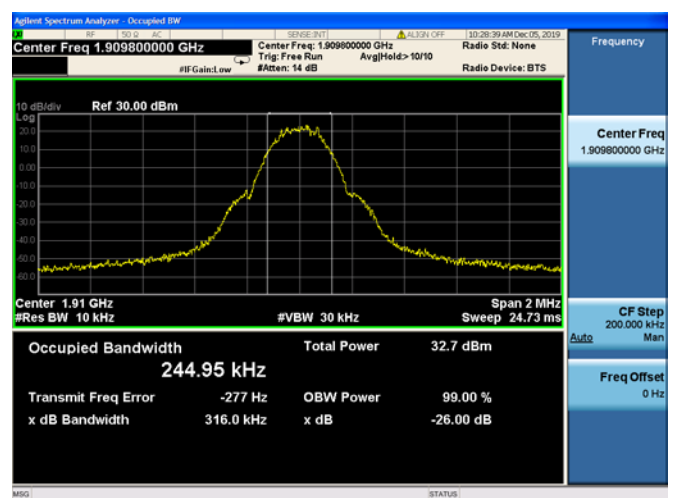
EDGE 1900MHz CH512 1850.2MHz



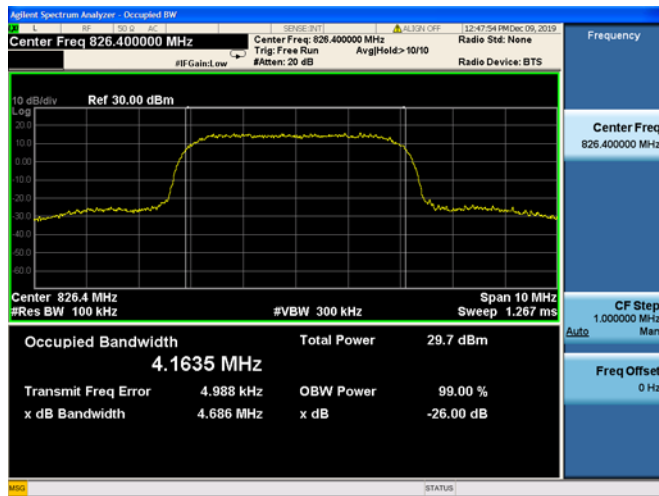
EDGE 1900MHzCH661 1880.0MHz



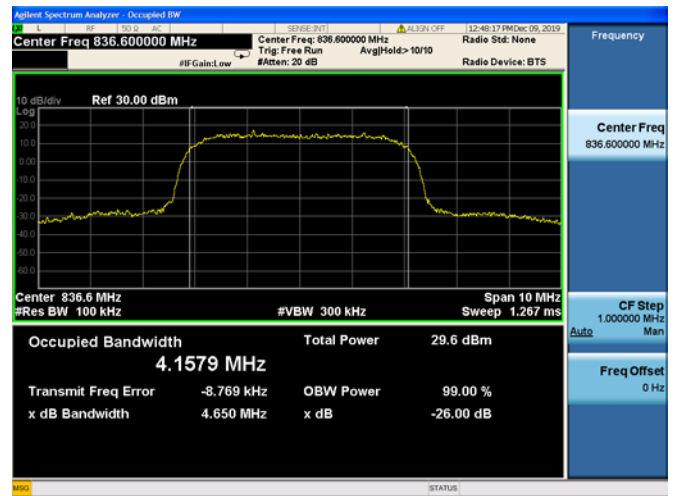
EDGE 1900MHzCH810 1909.8MHz



WCDMA Band VCH4132 826.4MHz



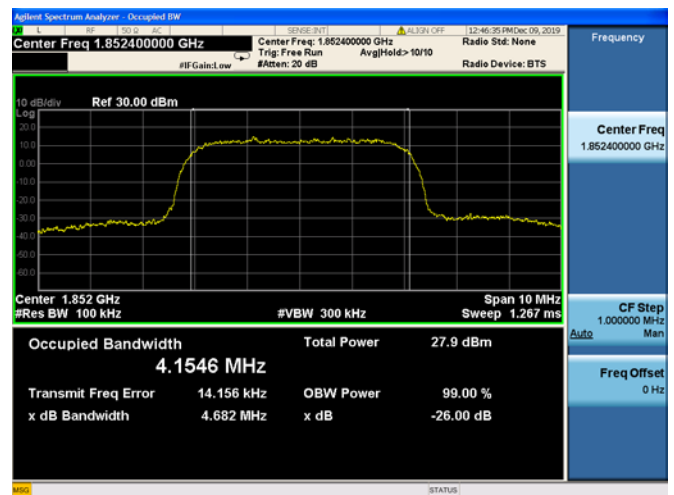
WCDMA Band VCH4183 836.4MHz



WCDMA Band VCH4233 846.6MHz



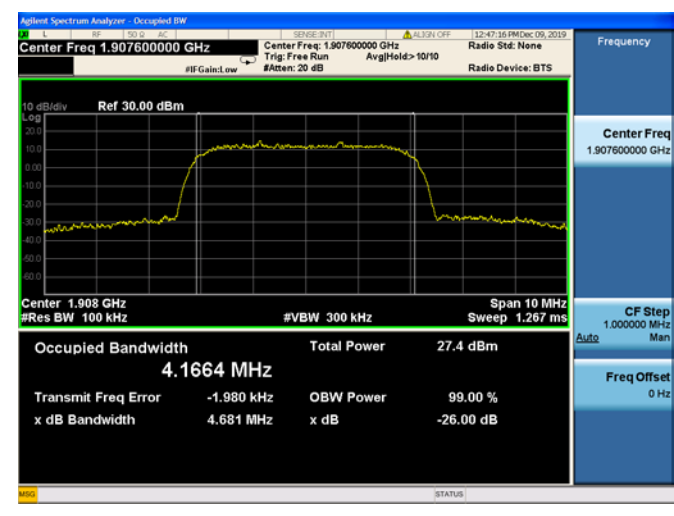
WCDMA Band II CH9262 1852.4MHz



WCDMA Band II CH9400 1880.0MHz



WCDMA Band II CH9538 1907.6MHz



2.4. Frequency Stability

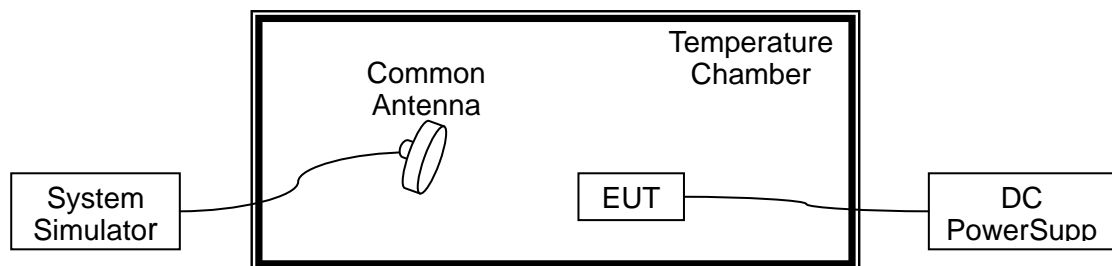
2.4.1. Requirement

According to FCC section 22.355, 24.235 and 27.54 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from 0°C to +55°C at intervals of not more than 10°C.
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

2.4.2. Test Description

Test Setup:



The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS via a Common Antenna.

2.4.3. Test Result

A. Test Verdict:

GSM 850MHz, Channel 190, Frequency 836.6MHz					
Limit =±2.5ppm					
Voltage(%)	Power(V DC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	41	0.049	PASS
100		0	-35	-0.042	
100		+10	-58	-0.069	
100		+20	37	0.044	
100		+30	25	0.030	
100		+40	26	0.031	
100		+50	57	0.068	
100		+55	14	0.017	
115	4.40	+20	-48	-0.057	
85	3.80	+20	-16	-0.019	

GSM 1900MHz, Channel 661, Frequency 1880.0MHz					
Limit =Within Authorized Band					
Voltage(%)	Power(V DC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	53	0.028	PASS
100		0	34	0.018	
100		+10	-48	-0.026	
100		+20	-73	-0.039	
100		+30	54	0.029	
100		+40	62	0.033	
100		+50	41	0.022	
100		+55	34	0.018	
115	4.40	+20	-17	-0.009	
85	3.80	+20	15	0.008	

EDGE 850MHz, Channel 190, Frequency 836.6MHz					
Limit =±2.5ppm					
Voltage(%)	Power(V DC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	47	0.056	PASS
100		0	-63	-0.075	
100		+10	-43	-0.051	
100		+20	41	0.049	
100		+30	35	0.042	
100		+40	26	0.031	
100		+50	74	0.088	
100		+55	35	0.042	
115	4.40	+20	-76	-0.091	
85	3.80	+20	-33	-0.039	

EDGE 1900MHz, Channel 661, Frequency 1880.0MHz					
Limit =Within Authorized Band					
Voltage(%)	Power(V DC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	42	0.022	PASS
100		0	-88	-0.047	
100		+10	63	0.034	
100		+20	-63	-0.034	
100		+30	-73	-0.039	
100		+40	42	0.022	
100		+50	23	0.012	
100		+55	34	0.018	
115	4.40	+20	15	0.008	
85	3.80	+20	-17	-0.009	

WCDMA Band V, Channel 4182, Frequency 836.4MHz					
Limit =±2.5ppm					
Voltage(%)	Power(V DC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	32	0.038	PASS
100		0	-17	-0.020	
100		+10	-58	-0.069	
100		+20	31	0.037	
100		+30	65	0.078	
100		+40	32	0.038	
100		+50	13	0.016	
100		+55	56	0.067	
115	4.40	+20	-76	-0.091	
85	3.80	+20	-59	-0.071	

WCDMA Band II, Channel 9400, Frequency 1880.0MHz					
Limit =Within Authorized Band					
Voltage(%)	Power(V DC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	34	0.018	PASS
100		0	15	0.008	
100		+10	-63	-0.034	
100		+20	-58	-0.031	
100		+30	31	0.016	
100		+40	23	0.012	
100		+50	24	0.013	
100		+55	15	0.008	
115	4.40	+20	-69	-0.037	
85	3.80	+20	24	0.013	

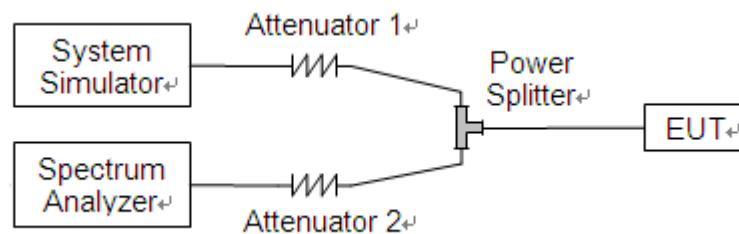
2.5. Conducted Out of Band Emissions

2.5.1. Requirement

According to FCC section 22.917(a), 24.238(a) and 27.53(h) the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10*\log(P)$ dB. This calculated to be -13dBm.

2.5.2. Test Description

Test Setup:



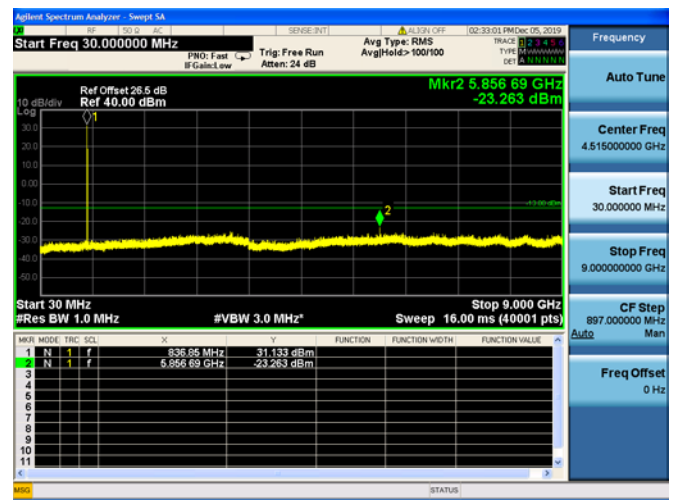
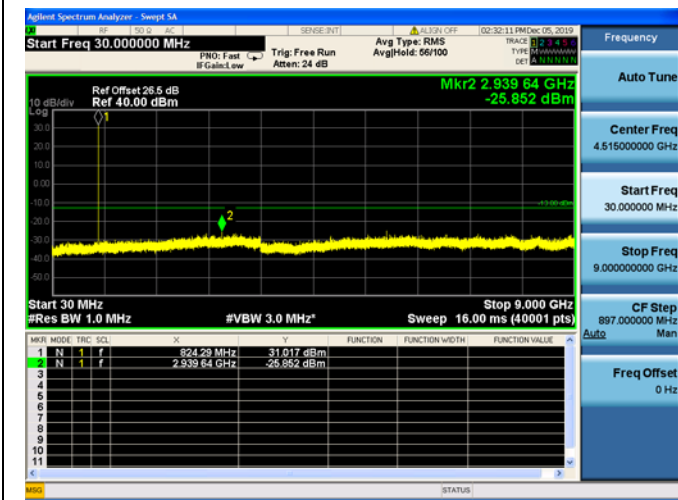
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

2.5.3. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

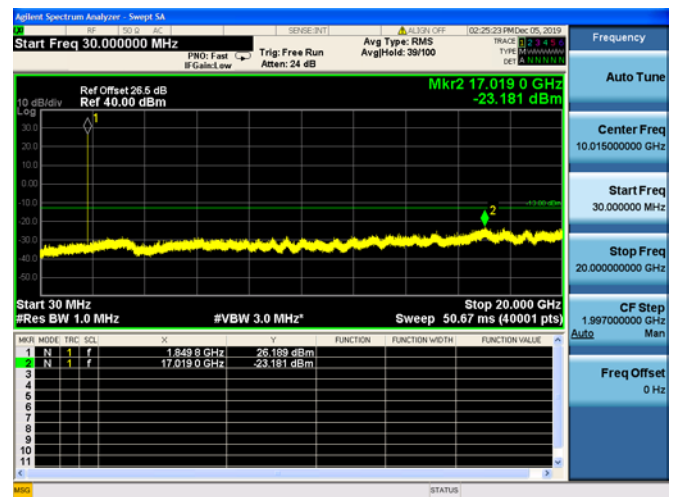
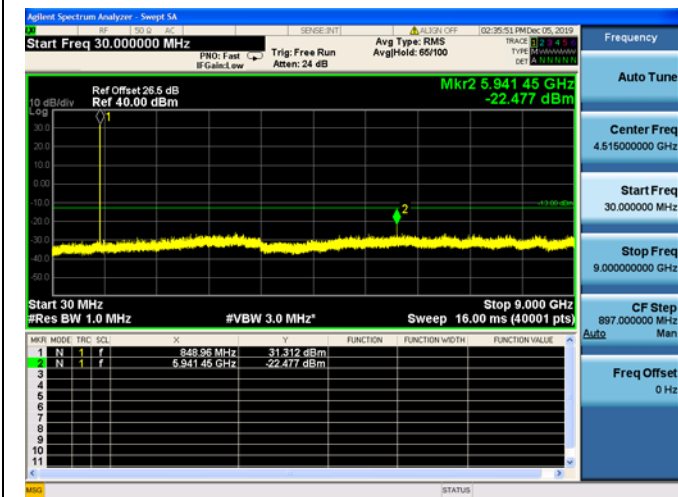
GSM 850MHz CH128 824.2MHz

GSM 850MHz CH190 836.6MHz



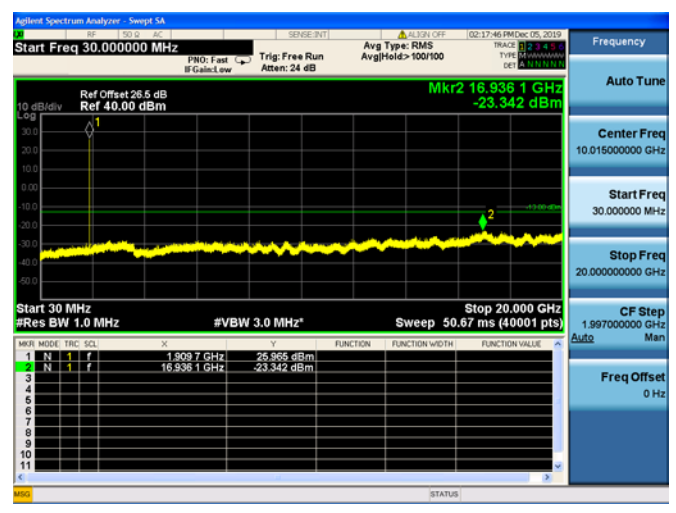
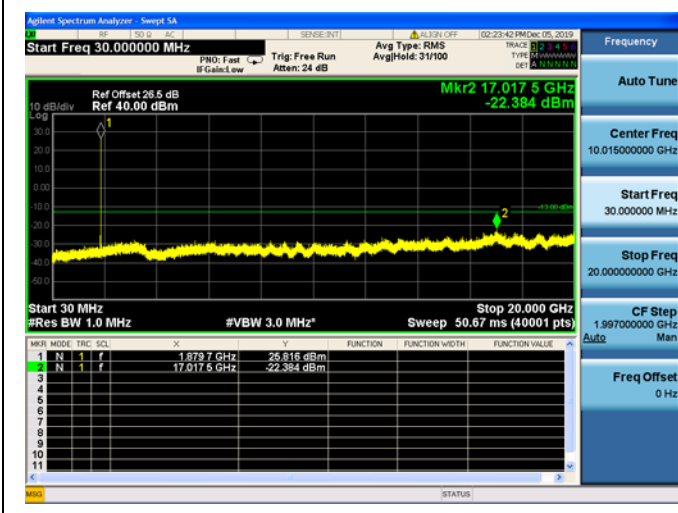
GSM 850MHz CH251 848.8MHz

GSM 1900MHz CH521 1850.2MHz



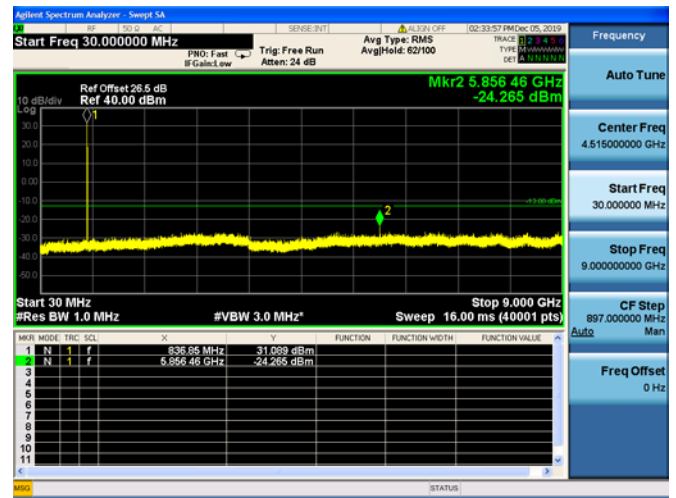
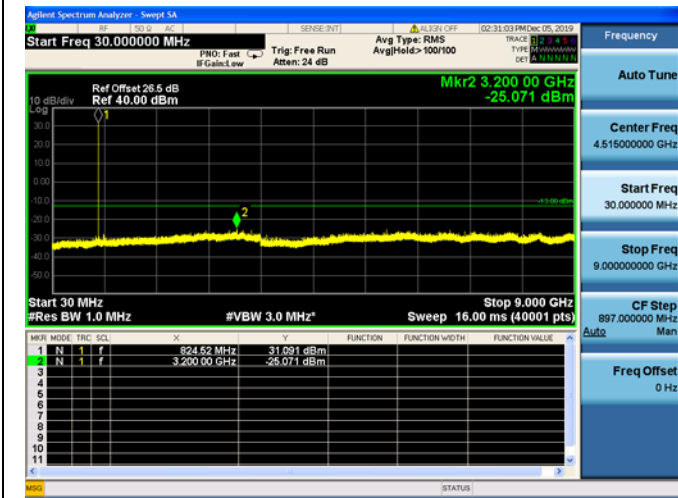
GSM 1900MHz CH661 1880.0MHz

GSM 1900MHz CH810 1909.8MHz



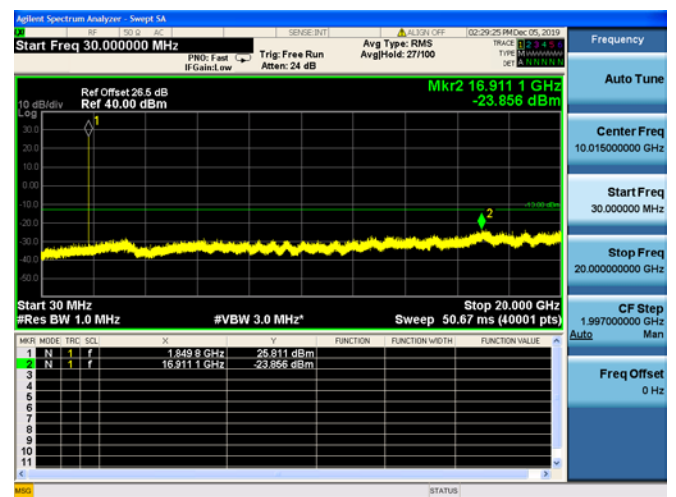
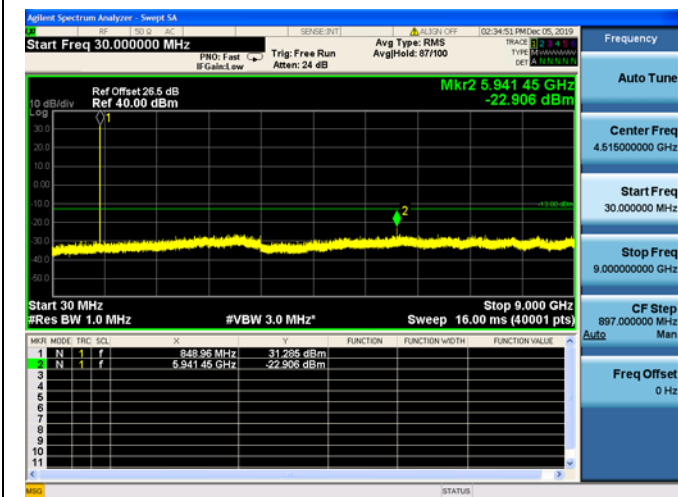
EDGE 850MHz CH128 824.2MHz

EDGE 850MHz CH190 836.6MHz



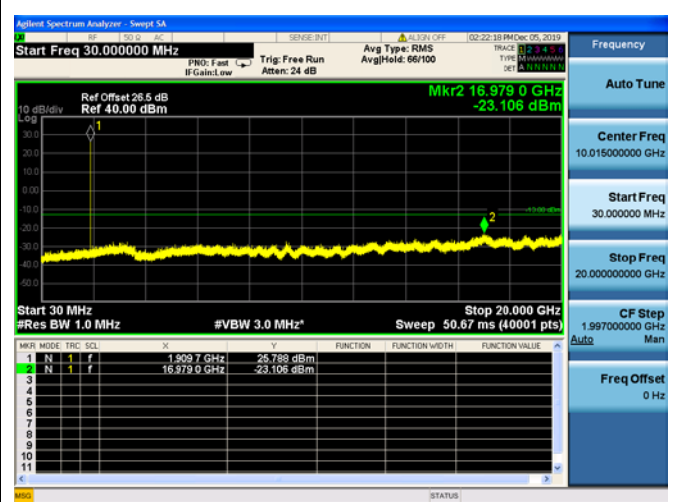
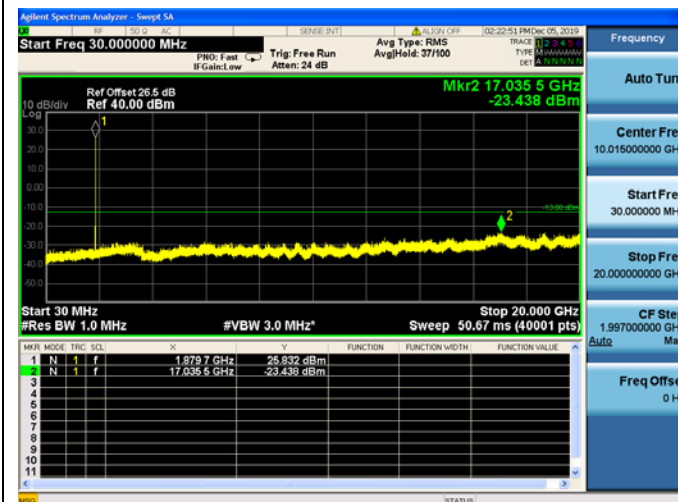
EDGE 850MHz CH251 848.8MHz

EDGE 1900MHz CH521 1850.2MHz



EDGE 1900MHz CH661 1880.0MHz

EDGE 1900MHz CH810 1909.8MHz





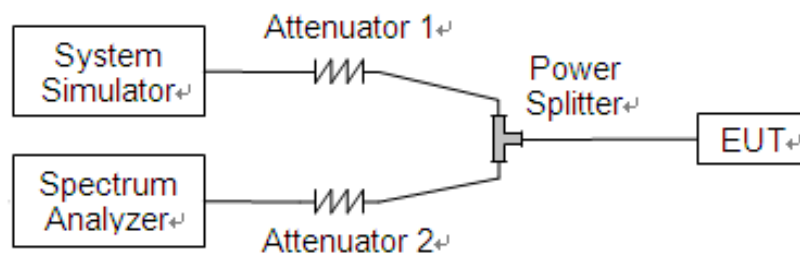
2.6. Band Edge

2.6.1. Requirement

According to FCC section 22.917(b), 24.238(b) and 27.53(h) in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth (26dB emission bandwidth) of the fundamental emission of the transmitter may be employed.

2.6.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

2.6.3. Test Result

The lowest and highest channels are tested to verify the band edge emissions.

