

FCC Test Report

(Part 22&24&27)

Product Name : WCDMA/LTE/5G Mobile Phone
Model No : EA211001,EC211001,EC211004
FCC ID : RYQEA211001

Applicant : FIH CO., LTD.

Address : No.4, Minsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan

Date of Receipt : 2021/04/23
Issued Date : 2021/06/22
Report No. : 2150419R-E3042110011
Report Version : V2.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Test Report

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Product Name : WCDMA/LTE/5G Mobile Phone

Applicant : FIH CO., LTD.

Address : No.4, Minsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan

Manufacturer : FIH CO., LTD.

Trade Name : FIH

Model No. : EA211001, EC211001, EC211004

EUT Rated Voltage : DC 3.6V~4.45V

EUT Test Voltage : DC 3.85V

Measurement Standard : FCC CFR Title 47 Part 22 ; Part 24 ; Part 27

Measurement : FCC CFR Title 47 Part 2

Reference : TIA/EIA 603-E 2016
KDB 971168 D01V03R01
ANSI C63.26 2015

Test Result : Complied

Documented By : Genie Chang
(Senior Adm. Specialist / Genie Chang)

Tested By : Joe Wang
(Engineer / Joe Wang)

Approved By : wenLee
(Supervisor / Wen Lee)

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Revision History

Report No.	Version	Description	Issued Date
2150419R-E3042110011	V1.0	Initial issue of report.	2021-06-12
2150419R-E3042110011	V2.0	Update Product Name	2021-06-22

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	WCDMA/LTE/5G Mobile Phone
Model No.	EA211001,EC211001,EC211004
Test Sample	EA211001
Trade Name	FIH
IMEI No.	35552737
FCC ID	RYQEA211001
TX Frequency	WCDMA Band 2: 1850MHz ~1910MHz WCDMA Band 4: 1710MHz~1755MHz WCDMA Band 5: 824MHz~849MHz
Rx Frequency	WCDMA Band 2: 1930MHz ~1990MHz WCDMA Band 4: 2110MHz ~2155MHz WCDMA Band 5: 869MHz ~894MHz
Type of modulation	WCDMA: QPSK (Uplink); HSDPA: QPSK (Uplink); HSUPA: QPSK (Uplink)
HW Version	5.1
SW Version	EA211001_0110U

1.2. Antenna List

No	Manufacturer	Part No	Antenna Type	Peak Gain
ANT0 (Main)	Tongda	MEFLC61001A/ MEFLC61004A	Monopole	0.6 dBi for B2 0.2 dBi for B4 -5.1 dBi for B5
ANT1 (TRX)			Loop	-6.8 dBi for B2 -10.3 dBi for B4
ANT2 (TRX)			Monopole	-2.5 dBi for B5

1.3. Operational Description

The EUT provide all functions described as above. The EUT is tested with maximum rated TX power via the Base Station simulator.

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined

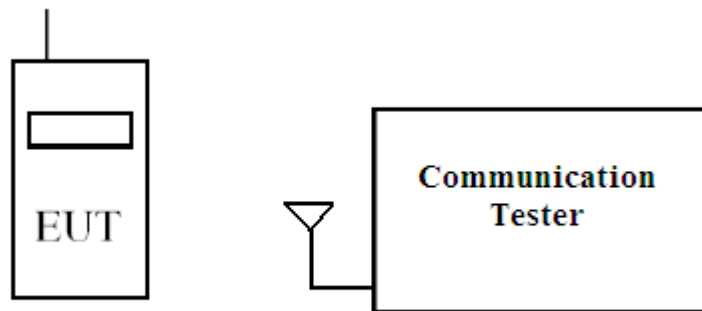
as:

Test Mode:	WCDMA BAND 2 (Voice/RMC/HSDPA/HSUPA)
	WCDMA BAND 4 (Voice/RMC/HSDPA/HSUPA)
	WCDMA BAND 5 (Voice/RMC/HSDPA/HSUPA)

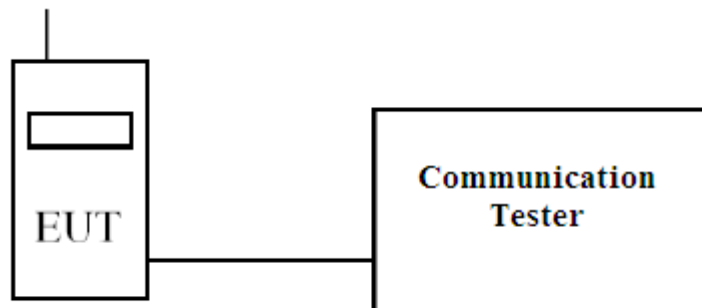
Note: All operation modes has been verified and the report shows the worst case mode.

1.4. Configuration of tested System

(a) Configuration of Radiated measurement



(b) Configuration of Conducted measurement



1.5. EUT Setup Procedures

- (1) Setup the EUT and simulators as shown on 1.3
- (2) Turn on the power of all equipments.
- (3) The EUT was set to communicate with communication tester.
- (4) Repeat the above procedure (3).

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual	Laboratory
Temperature (°C)	15-35	19 ~ 25	Linkou (Valley)
Humidity (%RH)	25-75	42 ~ 58	Linkou (Valley)

USA : FCC Registration Number: TW3023

Canada : IC Registration Number: 4075A

Site Description: Accredited by TAF
Accredited Number: 3023

Test Laboratory: DEKRA Testing and Certification Co., Ltd
Address: No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451,
Taiwan, R.O.C.
Phone number: 886-2-8601-3788
Fax number: 886-2-8601-3789
Email address: info.tw@dekra.com
Website: <http://www.dekra.com.tw>

2. Technical Test

2.1. Summary of test result

Test Item	FCC Reference section	FCC Limit	Result
RF Output Power	§2.1046	<7 Watts for §22.913(a) <2 Watts for §24.232(c) <1 Watts for §27.50(d)	Pass
	§22.913(a)		
	§24.232(c)		
	§27.50(d)		
Occupied Bandwidth	§2.1049	Within the frequency range	Pass
	§22.863		
	§24.238(b)		
	§27.53(h)		
Spurious Emission at Antenna Terminals	§2.1051	<-13dBm	Pass
	§22.917(a)		
	§24.238(a)		
	§27.53(h)		
Conducted Emission	§2.1051	<-13dBm	Pass
	§22.917(a)		
	§24.238(a)		
	§27.53(h)		
Field Strength of Spurious Radiation	§2.1053	<-13dBm	Pass
	§22.917(a)		
	§24.238(a)		
	§27.53(h)		
Frequency Stability for Temperature & Voltage	§2.1055	<±2.5 ppm for §22.355 Within the frequency range for §24.235, §27.54	Pass
	§22.355		
	§24.235		
	§27.54		
Peak to Average Ratio	§22.913 (d)	<13dB	Pass
	§24.232 (d)		
	§27.50 (d)		

2.2. List of test Equipment

Conducted /CTR

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY54510357	2021/05/18
Directional coupler	Agilent	87300C	MY44300353	2020/12/03
Directional coupler	Agilent	778D-012	50550	2020/12/03
Standard Temperature & Humidity Chamber	WIT	TH-1S-B	EQ-201-00146	2021/05/18
DC power supply	Agilent	E3610A	MY40009845	2020/06/30
Communication Tester	R&S	CMW500	157304	2020/12/08

Radiated / Site3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Bilog Antenna	Schaffner Chase	CBL6112B	2907	2021/02/26
Horn Antenna	R&S	9120D	556	2021/05/04
Pre-Amplifier	Agilent	87405C	MY55380068	2020/09/10
Spectrum Analyzer	Agilent	N9010A	MY54510357	2021/05/18
DC power supply	Agilent	E3610A	MY40009845	2020/06/30
Communication Tester	R&S	CMW500	157304	2020/12/08

2.3. Measurement Uncertainty

Conducted Emission

The measurement uncertainty of confidence of 95% is evaluated as ± 1.52 dB

Radiated Emission (Below 1GHz)

The measurement uncertainty of confidence of 95% is evaluated as ± 4.22 dB

Radiated Emission (Above 1GHz)

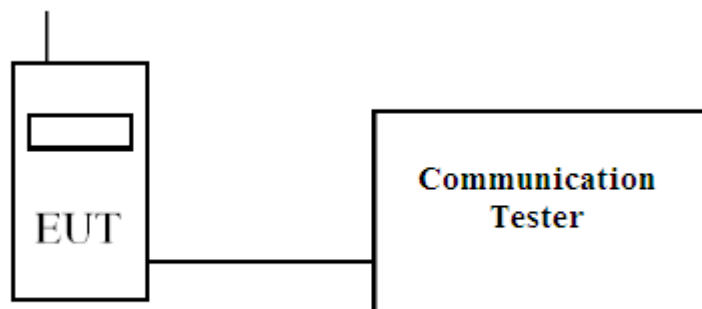
The measurement uncertainty of confidence of 95% is evaluated as ± 4.08 dB

3. Conducted Output Power Measurement

3.1. Test Specification

According to Part 2.1046, 22.913, 24.232, 27.50.

3.2. Test Setup



3.3. Limits

Band	Limit
850	ERP <7W
1900	EIRP <2W
AWS(1700)	EIRP <1W

3.4. Test Procedure

The EUT is tested with maximum rated TX power via the Base Station simulator, and the output power was measured at the antenna terminals of the EUT.

3.5. Test Result of Maximum Power Output

Product	WCDMA/LTE/5G Mobile Phone		
Test Mode	RF Output Power (Conducted)		
Date of Test	2021/06/05	Test Site	CTR

Band	WCDMA Band 2			WCDMA Band 4			WCDMA Band 5		
CHANNEL	9262	9400	9538	1312	1413	1513	4132	4183	4233
VOICE	23.19	23.45	23.94	23.46	23.55	23.54	23.80	23.92	23.78
RMC	23.26	23.48	24.01	23.49	23.56	23.57	23.60	23.69	23.60
HSDPA Set 1	22.12	22.35	22.91	22.39	22.50	22.54	22.69	22.84	22.71
HSDPA Set 2	22.24	22.42	23.00	22.28	22.57	22.48	22.90	22.95	22.83
HSDPA Set 3	22.28	22.59	23.19	22.45	22.66	22.66	23.13	23.13	22.97
HSDPA Set 4	21.96	22.19	22.74	22.07	22.31	22.29	22.41	22.56	22.33
HSUPA Set 1	21.02	21.27	21.51	21.26	21.28	21.37	21.22	21.04	21.09
HSUPA Set 2	20.64	20.84	21.44	20.87	20.98	21.04	21.07	21.18	21.03
HSUPA Set 3	21.12	21.37	21.93	21.38	21.48	21.55	21.54	21.69	21.58
HSUPA Set 4	20.59	20.88	21.43	20.85	20.99	20.94	20.57	20.72	20.59
HSUPA Set 5	21.06	21.29	21.57	21.24	21.30	21.38	21.19	21.08	21.11
Note: Unit : dBm									

3.6. Maximum Conducted Power and ERP/EIRP Power

According to KDB 412172 D01 Section 1.2 Power Approach

$$\text{EIRP} = P_T + G_T - L_C = \text{ERP} + 2.15 \text{ dB}, \text{ERP} = \text{EIRP} - 2.15 \text{ dB}$$

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

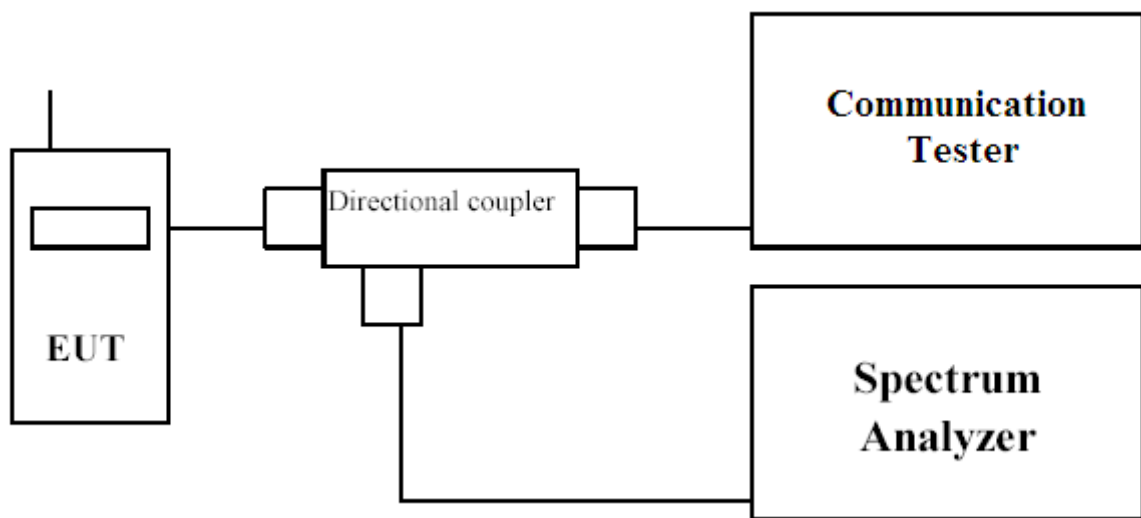
WCDMA	CHANNEL	Conducted Peak Power (dBm)	Conducted Peak Power (W)	Antenna Gain (dBi)	Maximum ERP/EIRP (W)	Maximum ERP/EIRP Limit (W)
Band 2	Voice/RMC	24.01	0.252	0.6	0.289	2
Band 2	HSDPA	23.19	0.208	0.6	0.239	2
Band 2	HSUPA	21.93	0.156	0.6	0.179	2
Band 4	Voice/RMC	23.57	0.228	0.2	0.238	1
Band 4	HSDPA	22.66	0.185	0.2	0.193	1
Band 4	HSUPA	21.55	0.143	0.2	0.150	1
Band 5	Voice/RMC	23.92	0.247	-2.5	0.085	7
Band 5	HSDPA	23.13	0.206	-2.5	0.070	7
Band 5	HSUPA	21.69	0.148	-2.5	0.051	7

4. Occupied Bandwidth

4.1. Test Specification

According to Part 2.1049, 22.863, 24.238, 27.53.

4.2. Test Setup



4.3. Test Procedure

The EUT is tested with maximum rated TX power via the Base Station simulator, and the occupied bandwidth was measured at the antenna terminals of the EUT.

The Resolution BW of the analyzer is set to 1 % of the emission bandwidth. The EUT's occupied bandwidth is measured as the width of the signal between two points, one below the carrier center frequency and one above the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

The plots below show the resultant display from the Spectrum Analyser.

4.4. Test Result of Occupied Bandwidth

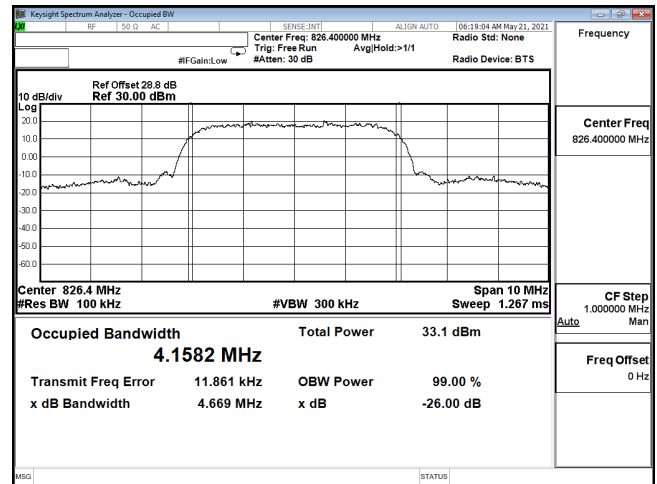
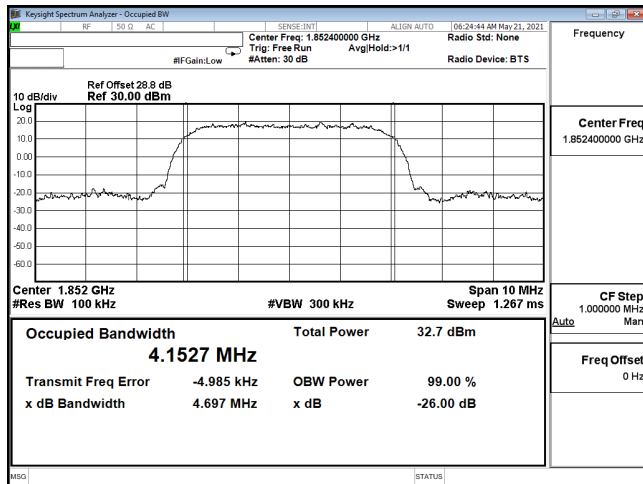
Product	WCDMA/LTE/5G Mobile Phone
Test Mode	Occupied Bandwidth
Test Site	CTR
Date of Test	2021/05/22

WCDMA Band2				
BW	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB bandwidth (kHz)
VOICE	9262	1852.4	4.1527	4.697
VOICE	9400	1880	4.1504	4.708
VOICE	9538	1907.6	4.1544	4.687
RMC	9262	1852.4	4.1479	4.702
RMC	9400	1880	4.1465	4.688
RMC	9538	1907.6	4.1642	4.687
HSDPA	9262	1852.4	4.1505	4.716
HSDPA	9400	1880	4.1563	4.692
HSDPA	9538	1907.6	4.1645	4.696
HSUPA	9262	1852.4	4.1673	4.684
HSUPA	9400	1880	4.1499	4.680
HSUPA	9538	1907.6	4.1479	4.694

WCDMA Band4				
BW	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB bandwidth (kHz)
VOICE	1312	1712.4	4.1409	4.705
VOICE	1413	1732.6	4.1504	4.698
VOICE	1513	1752.6	4.1450	4.700
RMC	1312	1712.4	4.1608	4.695
RMC	1413	1732.6	4.1530	4.687
RMC	1513	1752.6	4.1757	4.704
HSDPA	1312	1712.4	4.1545	4.713
HSDPA	1413	1732.6	4.1467	4.688
HSDPA	1513	1752.6	4.1645	4.699
HSUPA	1312	1712.4	4.1568	4.693
HSUPA	1413	1732.6	4.1473	4.680
HSUPA	1513	1752.6	4.1561	4.698

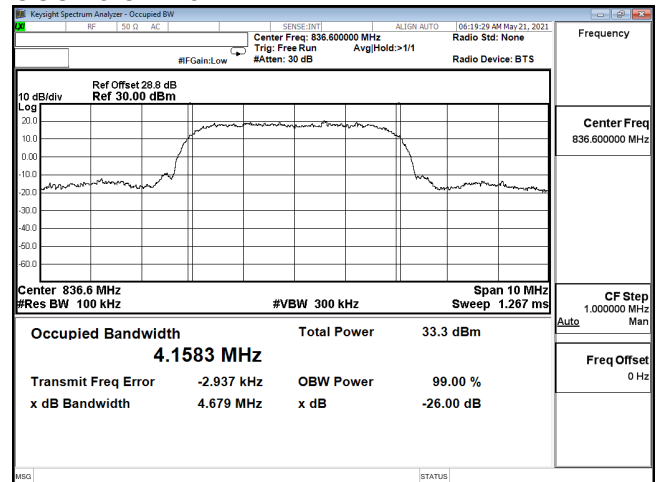
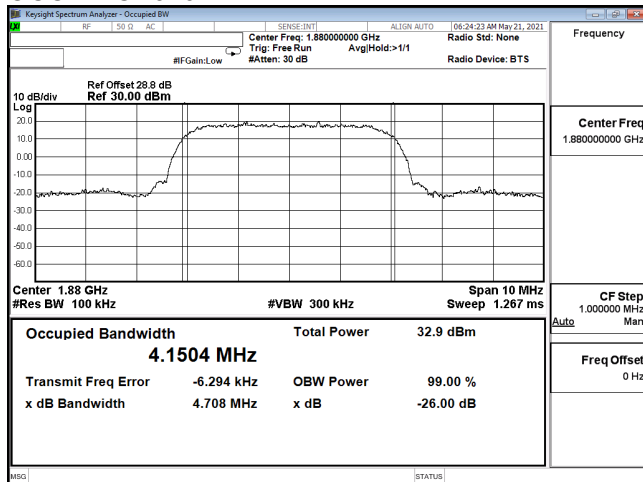
WCDMA Band5				
BW	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB bandwidth (kHz)
VOICE	4132	826.4	4.1582	4.669
VOICE	4183	836.6	4.1583	4.679
VOICE	4233	846.6	4.1497	4.669
RMC	4132	826.4	4.1779	4.689
RMC	4183	836.6	4.1697	4.688
RMC	4233	846.6	4.1702	4.718
HSDPA	4132	826.4	4.1778	4.721
HSDPA	4183	836.6	4.1571	4.708
HSDPA	4233	846.6	4.1563	4.688
HSUPA	4132	826.4	4.1674	4.695
HSUPA	4183	836.6	4.1749	4.714
HSUPA	4233	846.6	4.1568	4.686

Product	WCDMA/LTE/5G Mobile Phone		
Test Mode	Occupied Bandwidth		
Date of Test	2021/05/21	Test Site	CTR
Test Condition	WCDMA Band2 / Band4 / Band5		



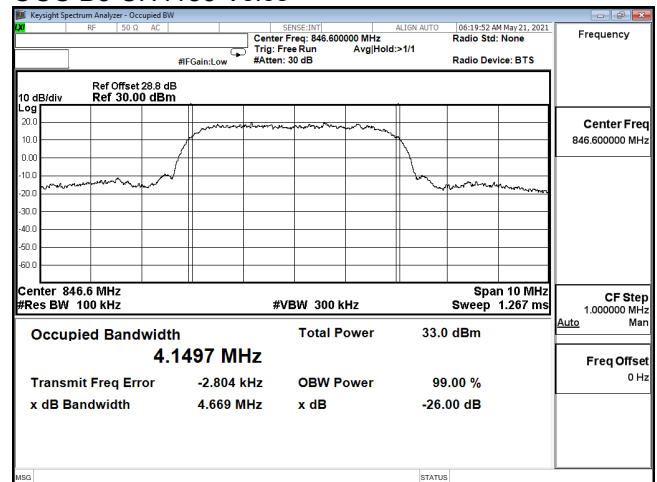
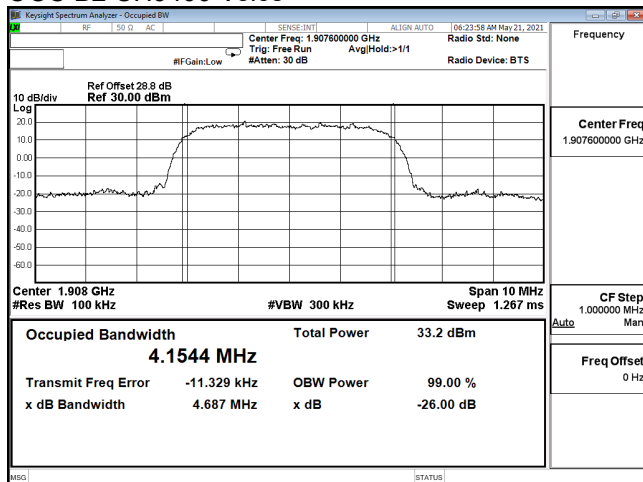
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OCC B5 CH4132 Voice



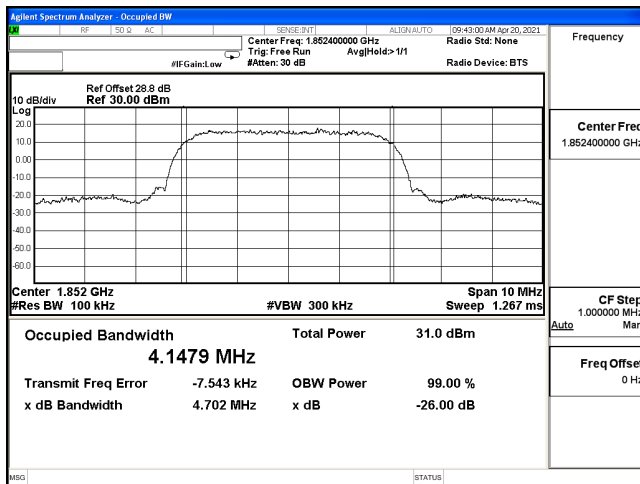
OCC B2 CH9400 Voice

OCC B5 CH4183 Voice

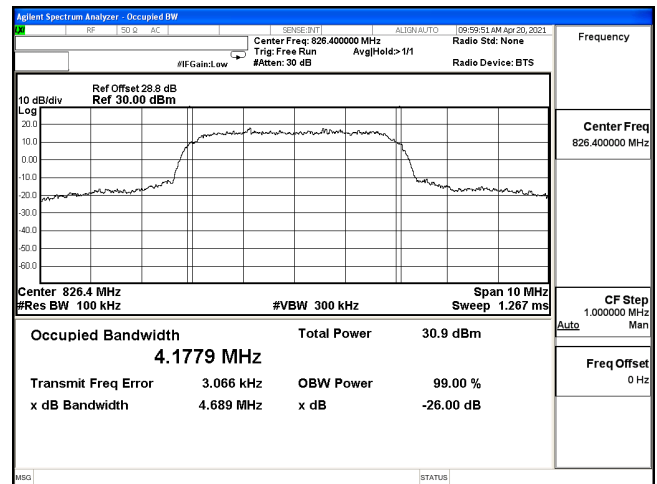


OCC B2 CH9538 Voice

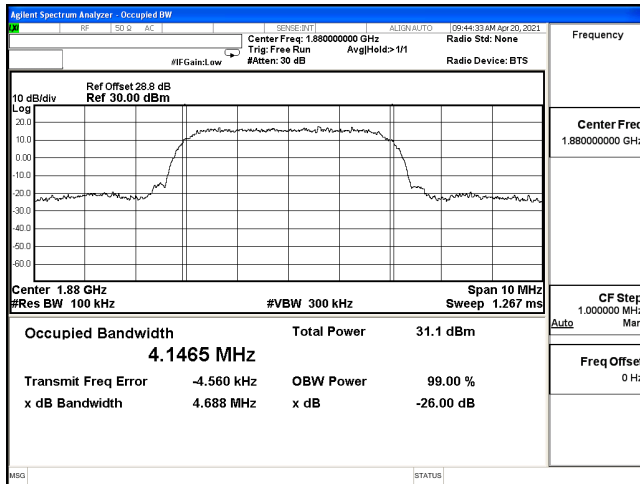
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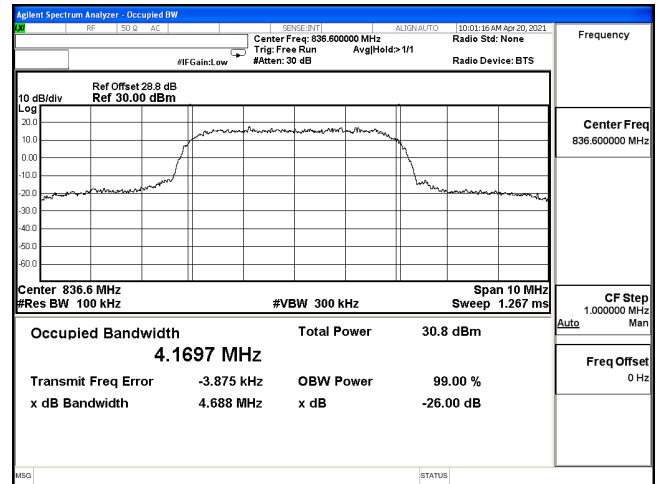
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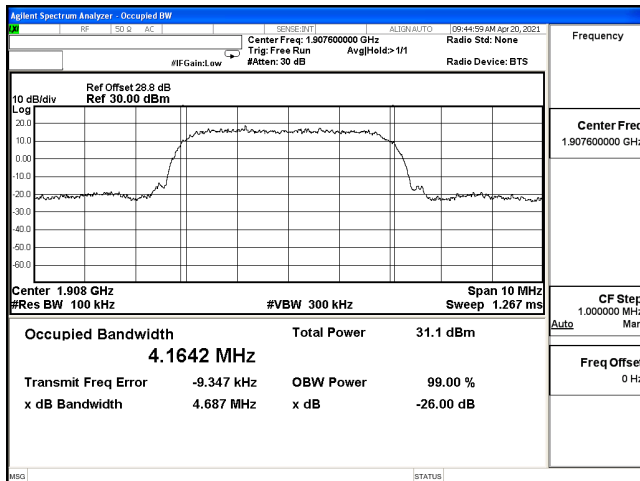
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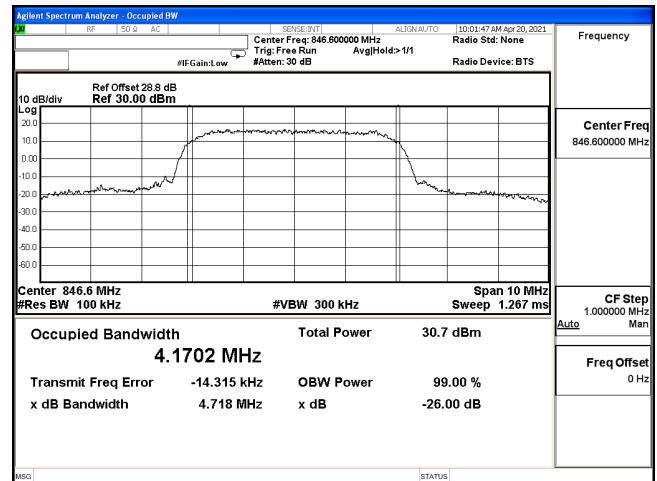
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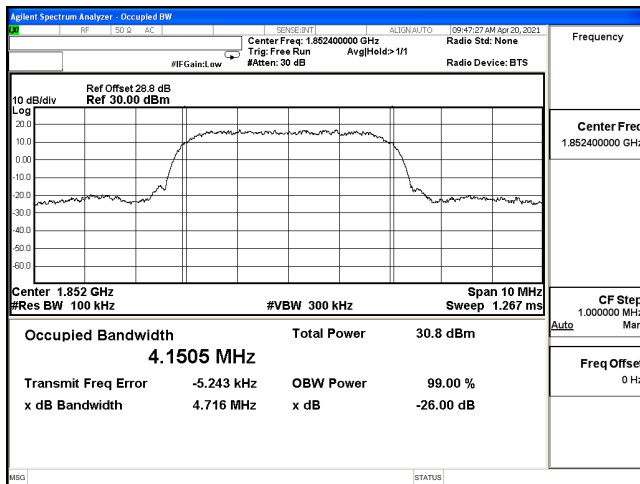
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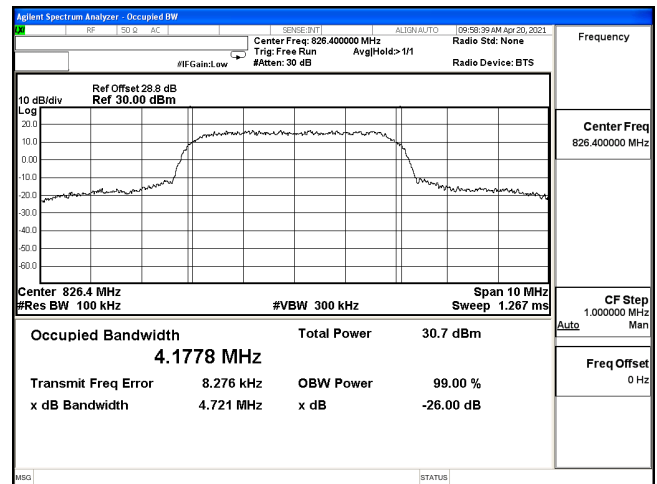
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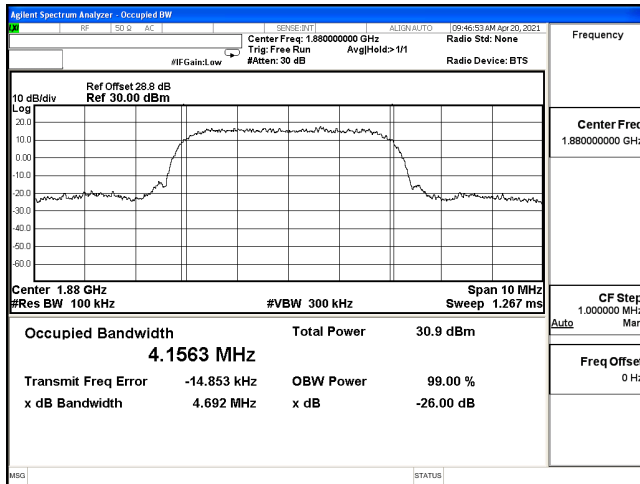
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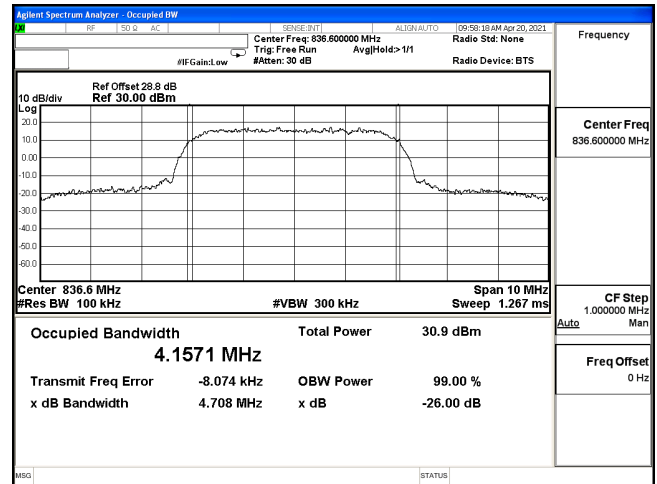
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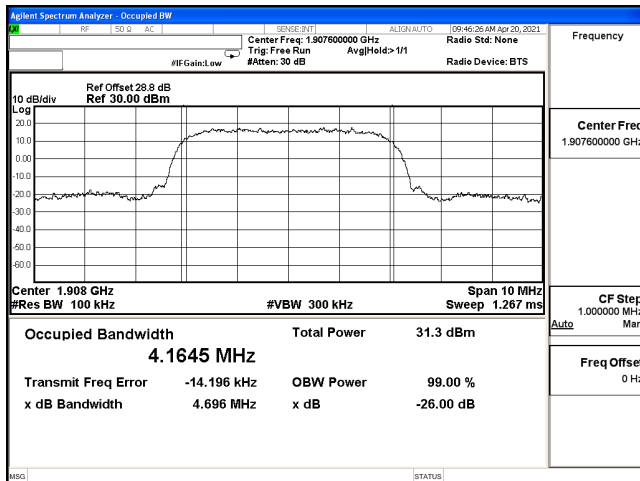
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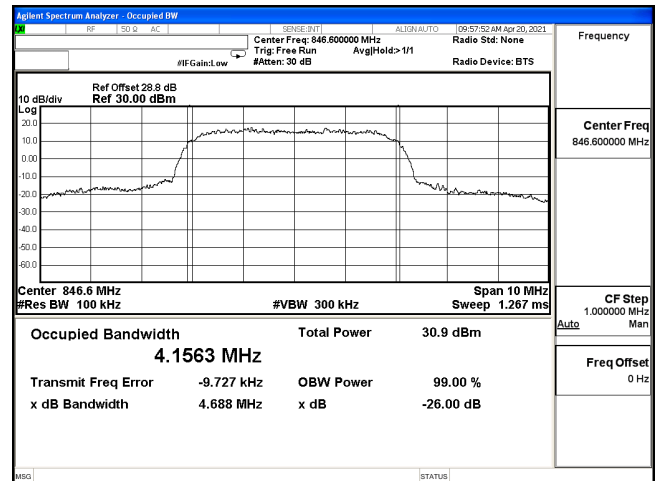
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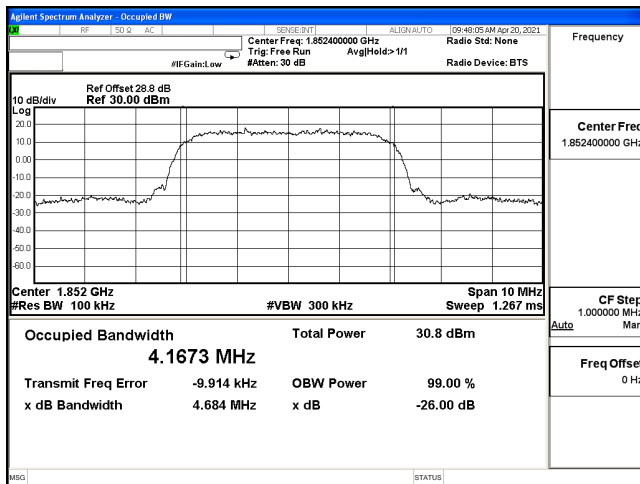
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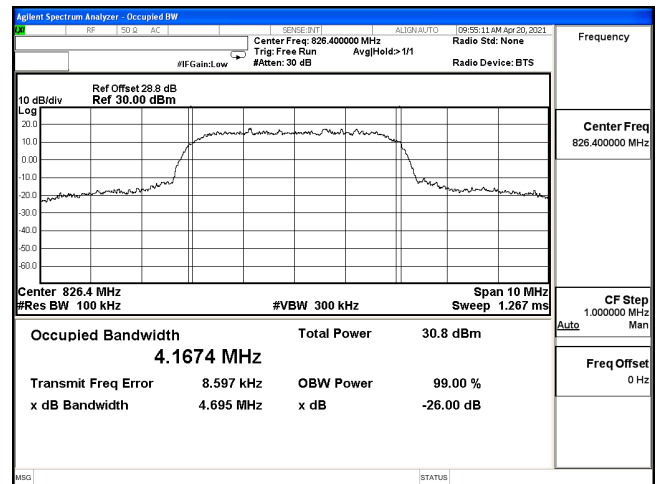
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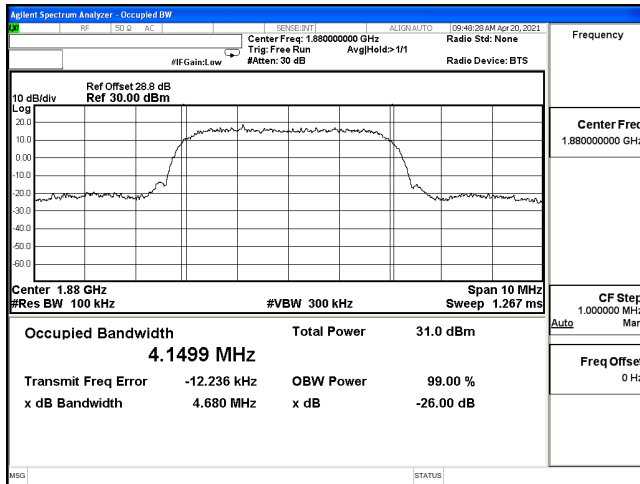
OCC B5 CH4233 HSDPA



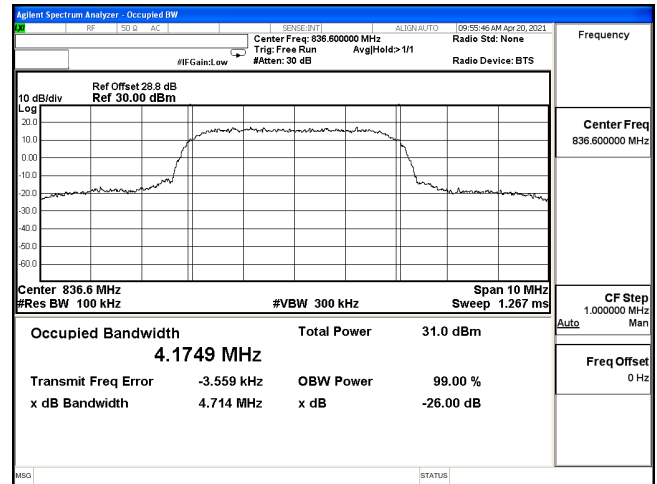
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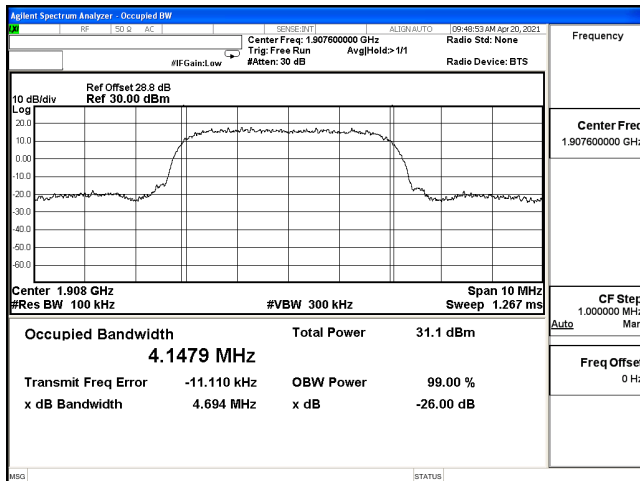
OCC B5 CH4132 HSUPA



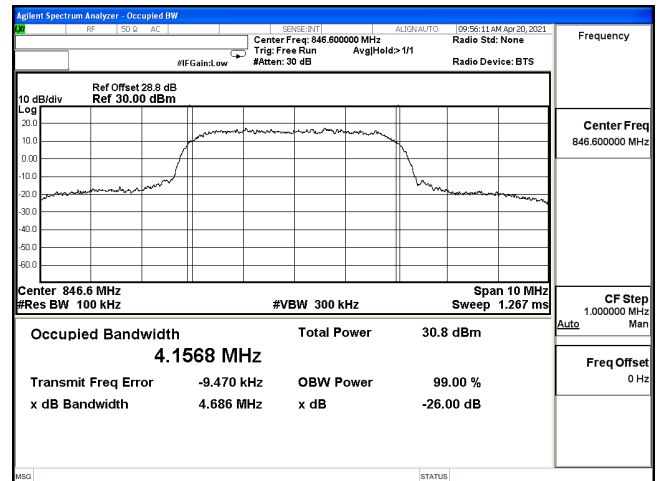
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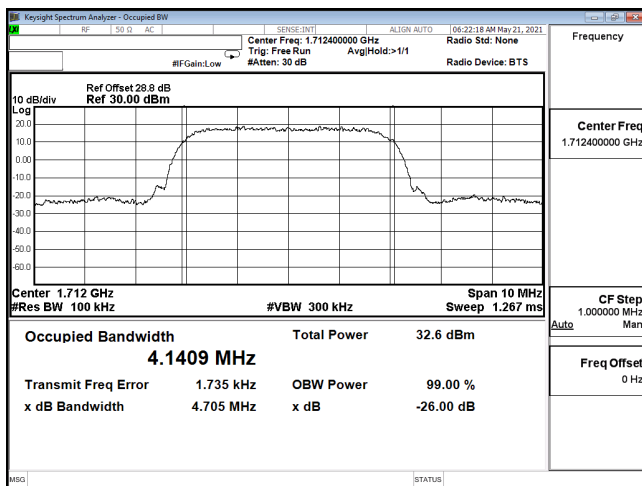
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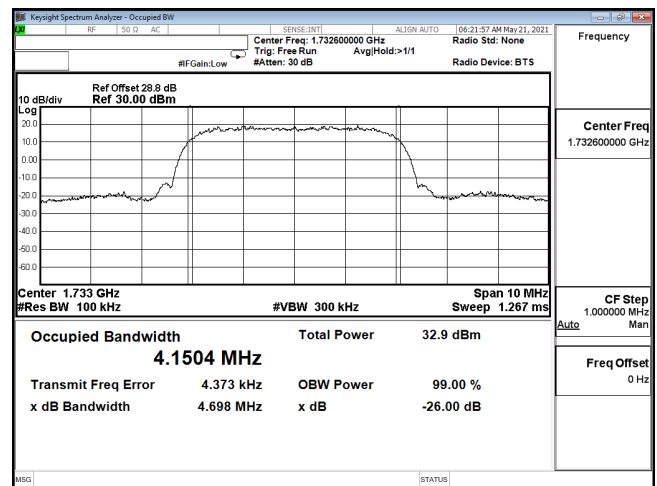
OCC B2 CH9538 HSUPA



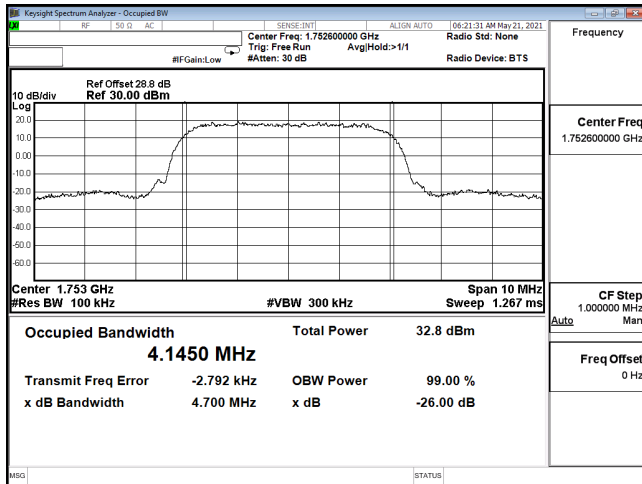
OCC B5 CH4233 HSUPA



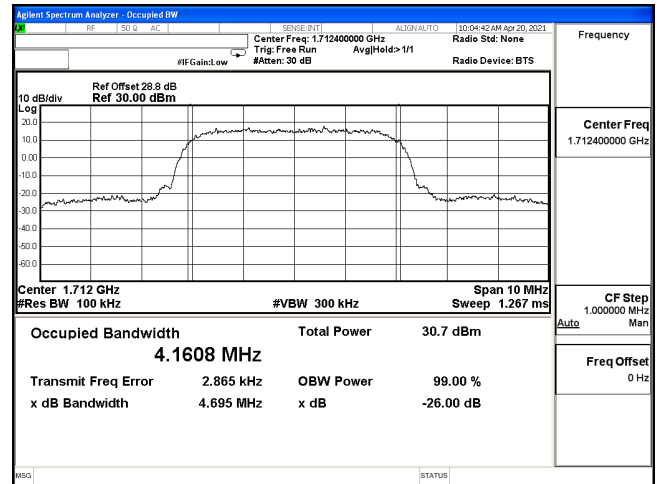
OCC B4 CH1312 Voice



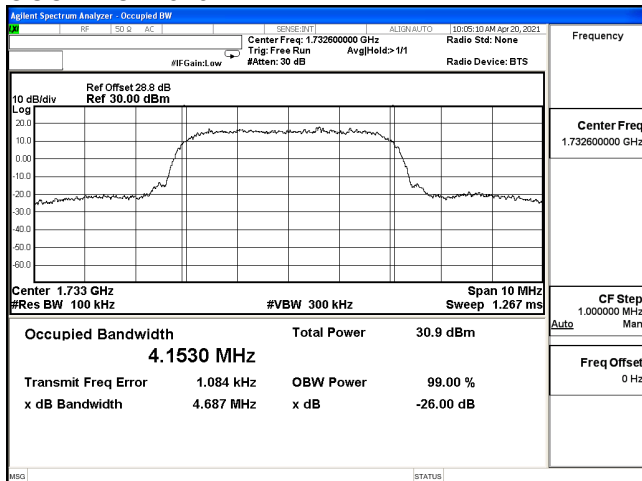
OCC B4 CH1413 Voice



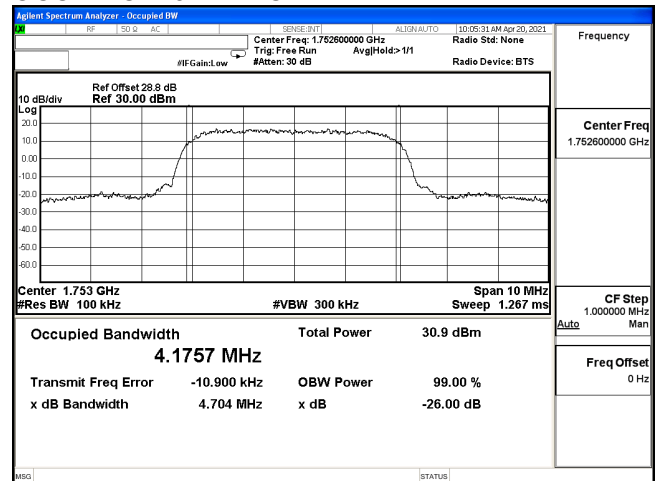
OCC B4 CH1513 Voice



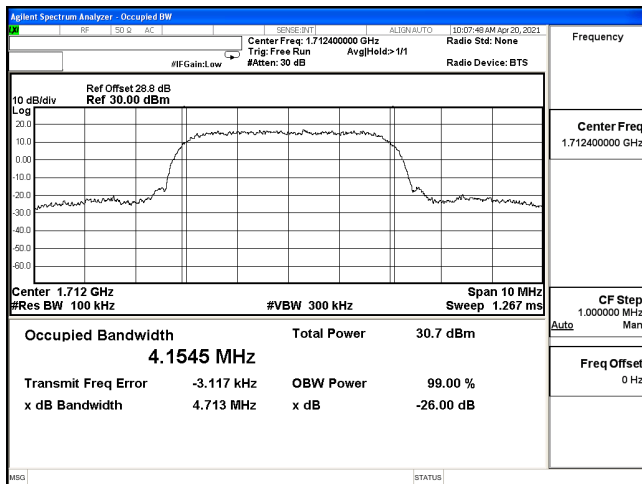
OCC B4 CH1312 RMC



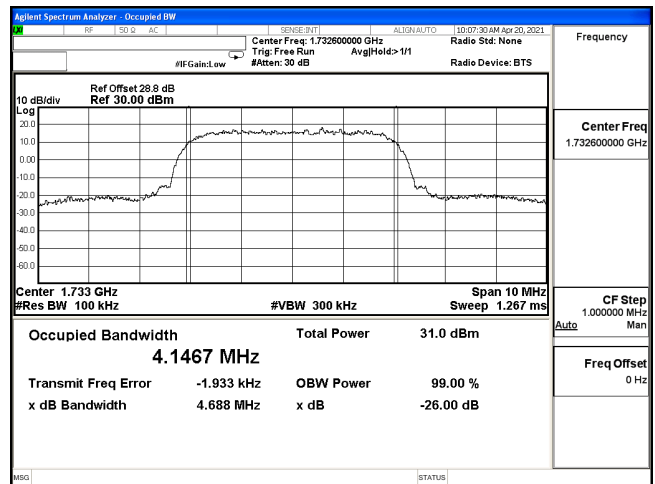
OCC B4 CH1413 RMC



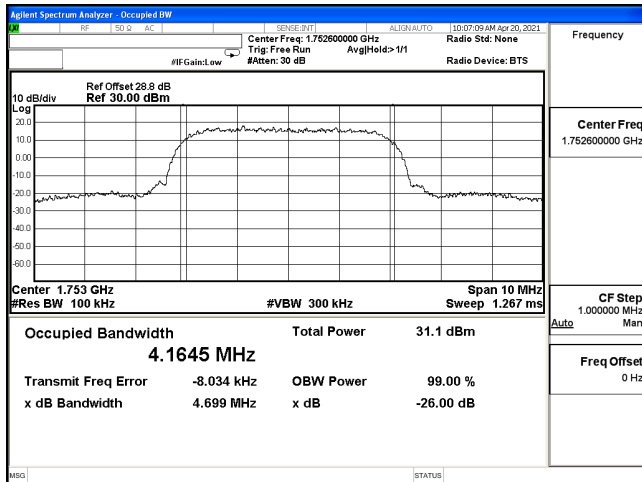
OCC B4 CH1513 RMC



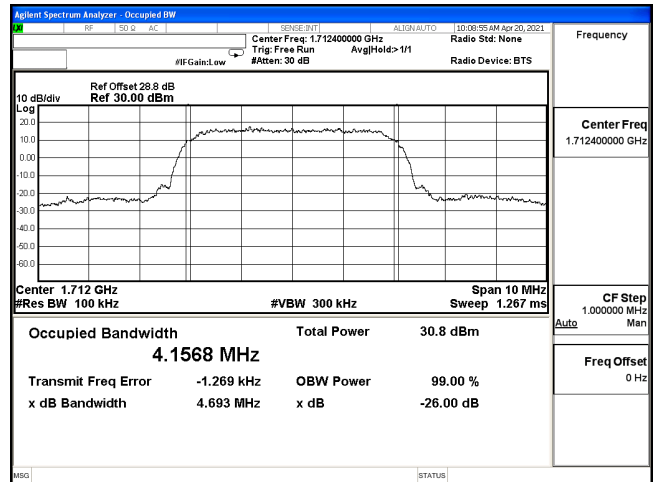
OCC B4 CH1312 HSDPA



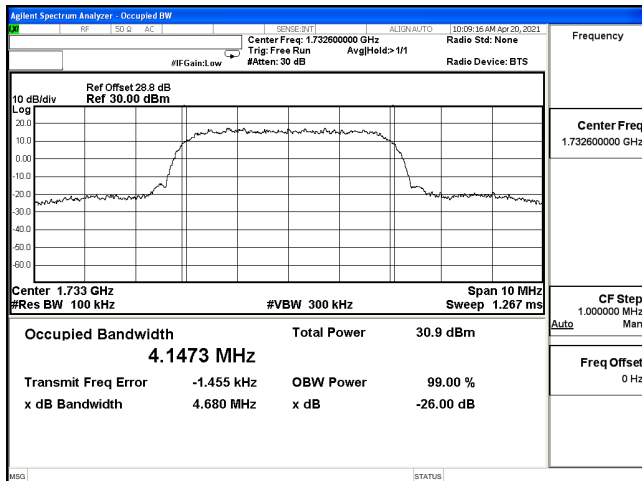
OCC B4 CH1413 HSDPA



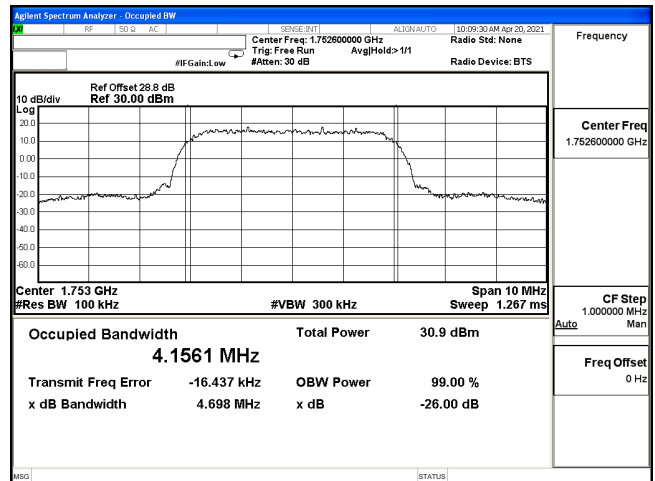
OCC B4 CH1513 HSDPA



OCC B4 CH1312 HSUPA



OCC B4 CH1413 HSUPA



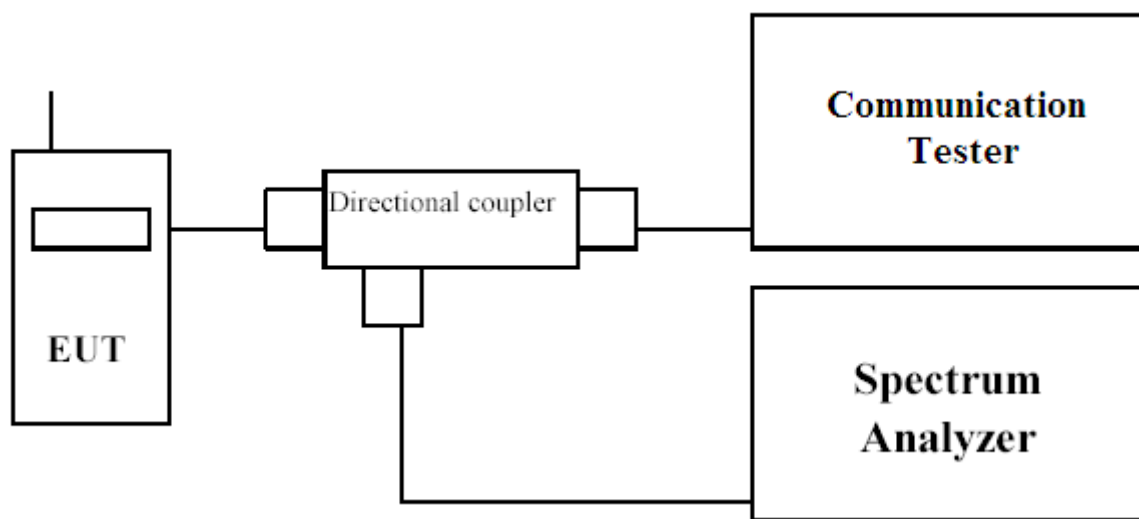
OCC B4 CH1513 HSUPA

5. Spurious Emission At Antenna Terminals (+/-1MHz)

5.1. Test Specification

According to Part 2.1051, 22.917, 24.238, 27.53.

5.2. Setup



5.3. Limits

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.

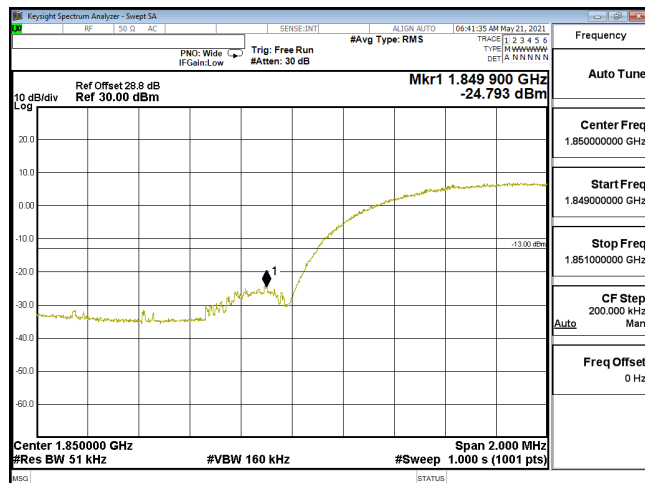
5.4. Test Procedure

In accordance with Part 22.917, 24.238, 27.53, at least 1% of the emission bandwidth was used for the resolution and video bandwidths up to 1MHz away from the Block Edge. At greater than 1MHz, the resolution and video bandwidth were set 3 x RBW.

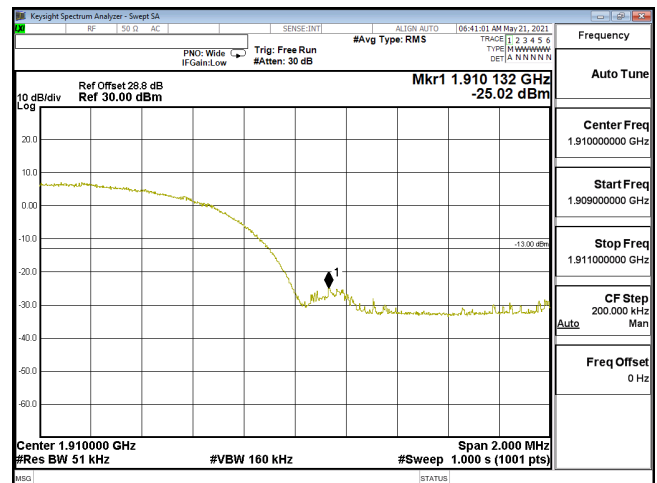
The reference power and path losses of all channels used for testing in each frequency block were measured.

5.5. Test Result of Spurious Emission At Antenna Terminals (+/-1MHz)

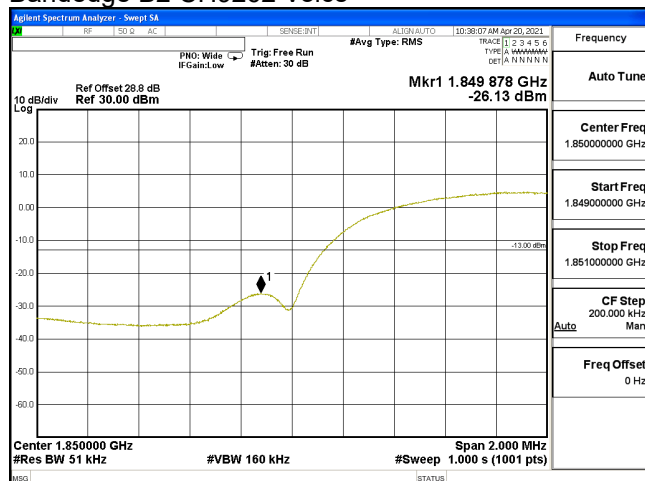
Product	WCDMA/LTE/5G Mobile Phone		
Test Mode	Spurious Emission At Antenna Terminals (+/-1MHz)		
Date of Test	2021/05/21	Test Site	CTR
Test Condition	Block Edge Test (WCDMA Band2/4/5)		



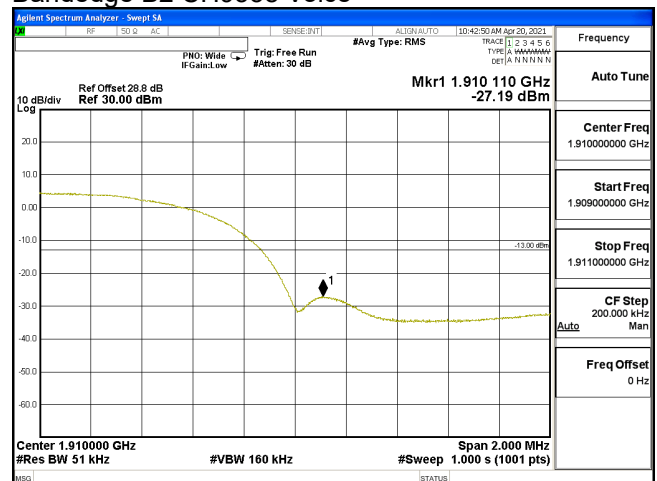
Bandedge B2 CH9262 Voice



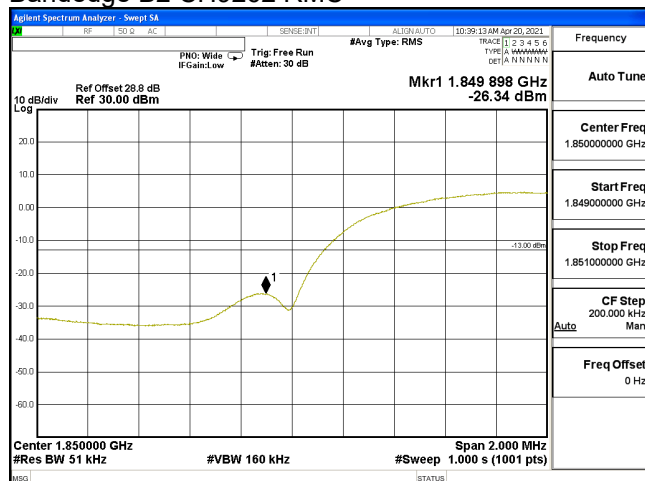
Bandedge B2 CH9538 Voice



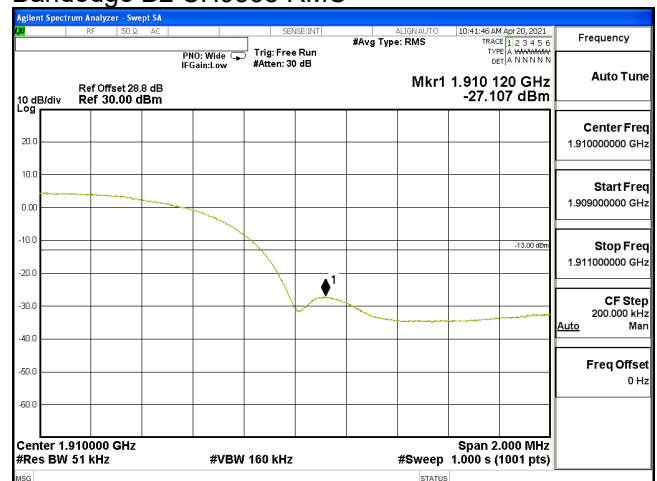
Bandedge B2 CH9262 RMC



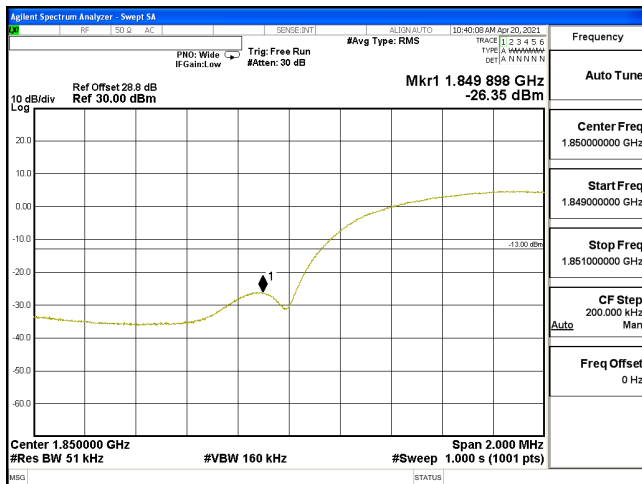
Bandedge B2 CH9538 RMC



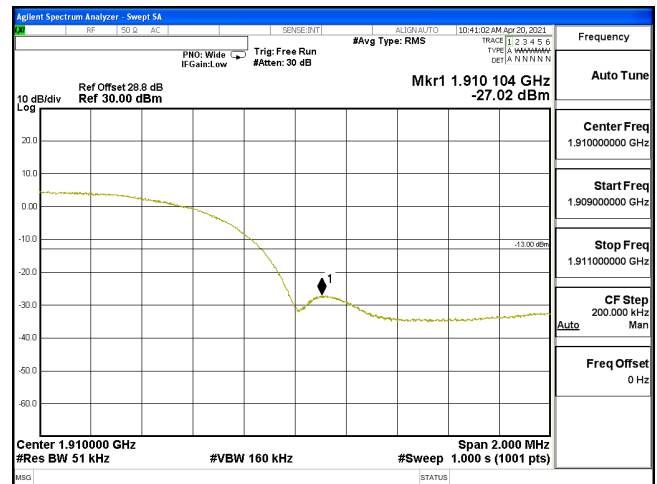
Bandedge B2 CH9262 HSDPA



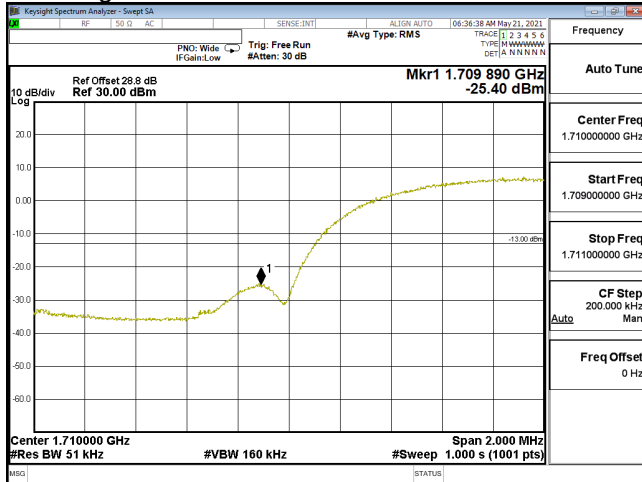
Bandedge B2 CH9538 HSUPA



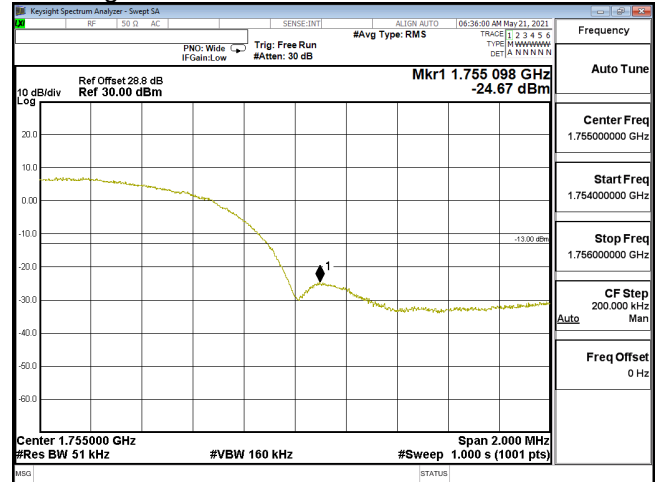
Bandedge B2 CH9262 HSUPA



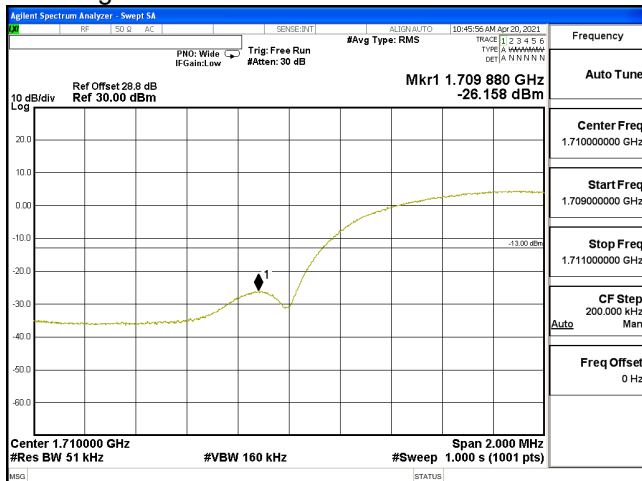
Bandedge B2 CH9538 HSUPA



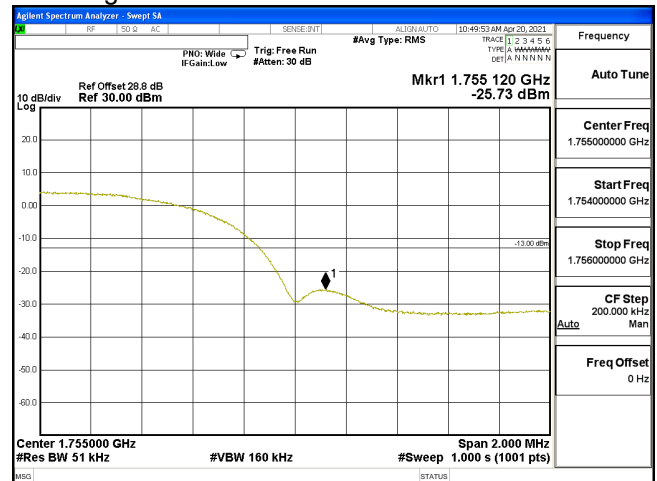
Bandedge B4 CH1312 Voice



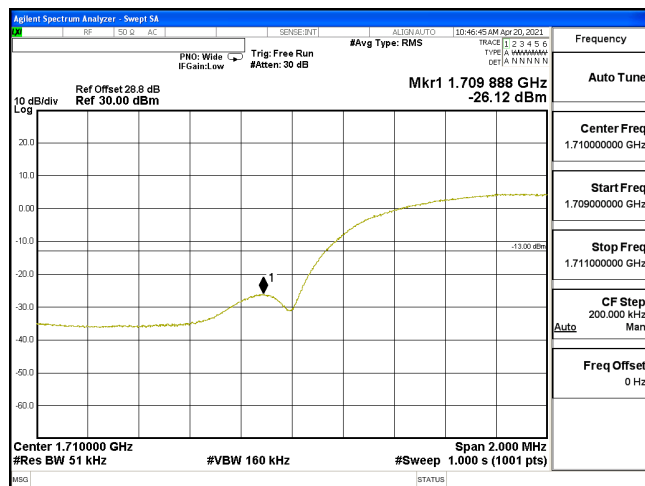
Bandedge B4 CH1513 Voice



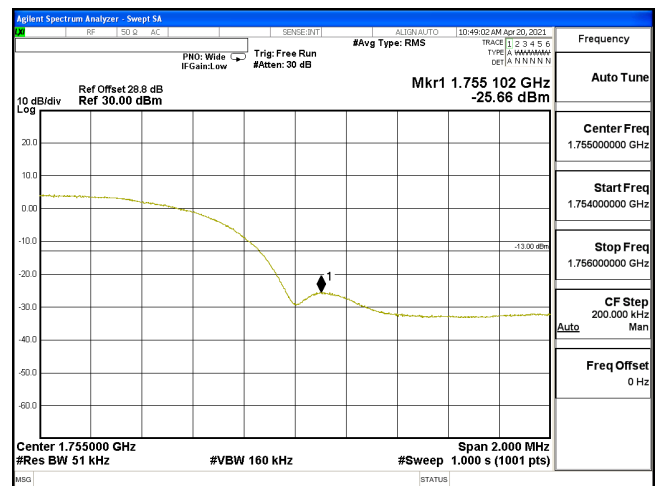
Bandedge B4 CH1312 RMC



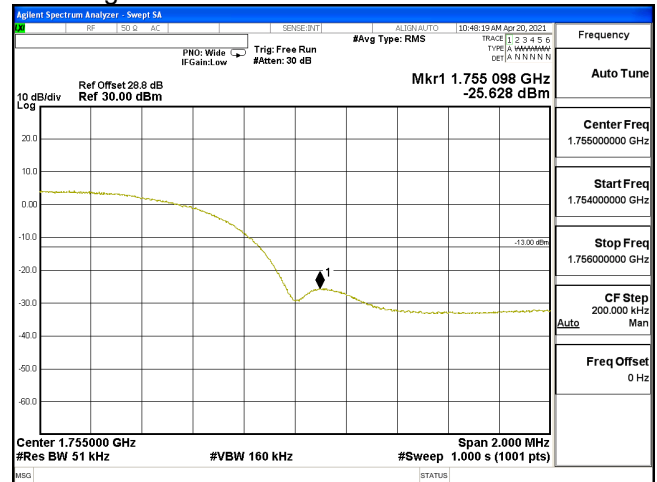
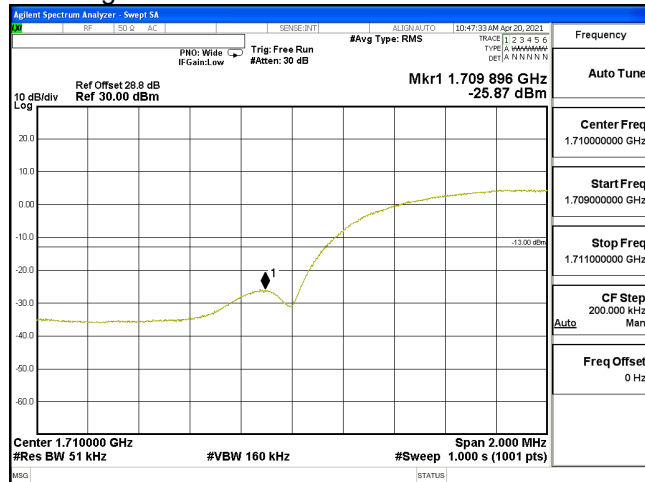
Bandedge B4 CH1513 RMC



Bandedge B4 CH1312 HSDPA

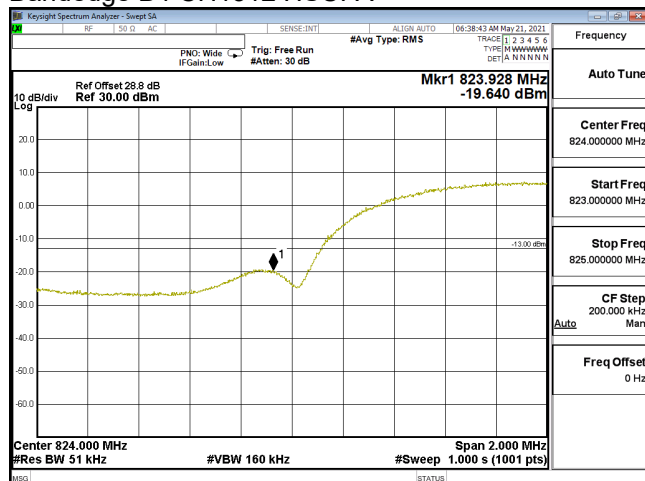


Bandedge B4 CH1513 HSDPA

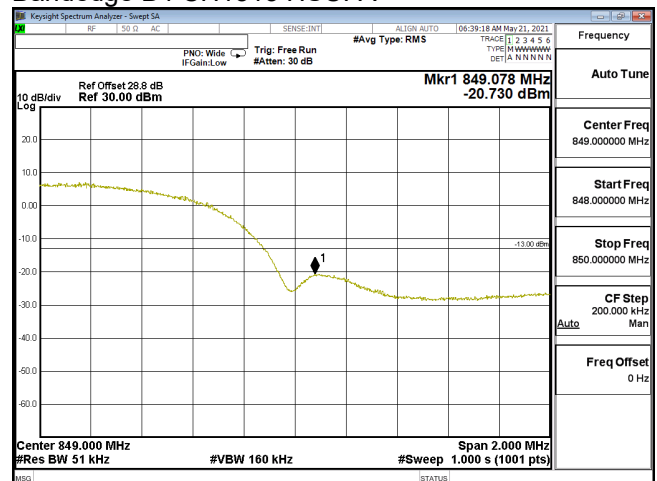


Bandedge B4 CH1312 HSUPA

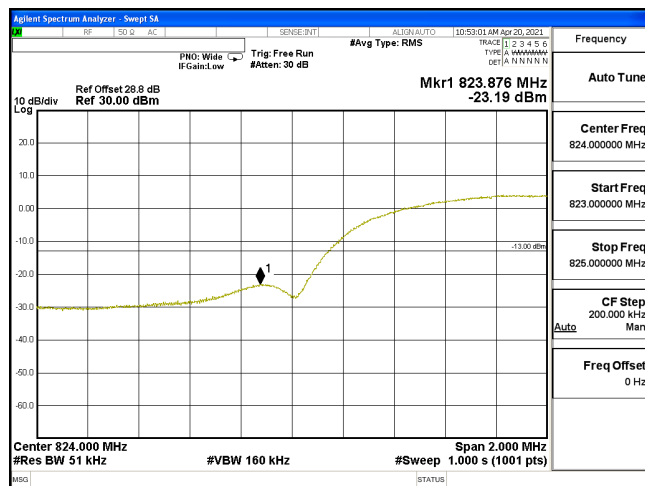
Bandedge B4 CH1513 HSUPA



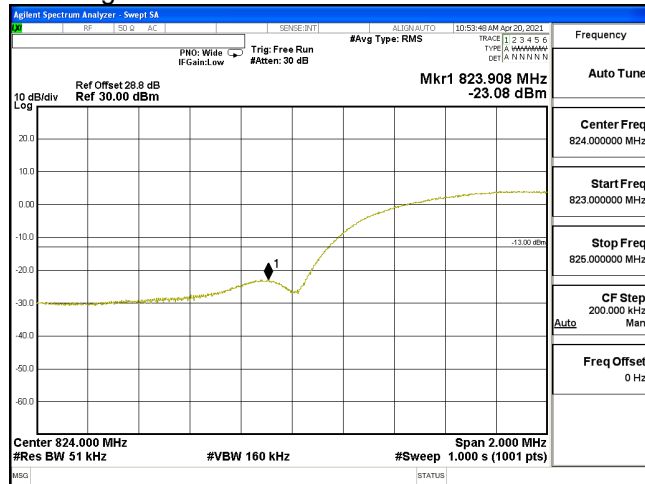
Bandedge B5 CH4132 Voice



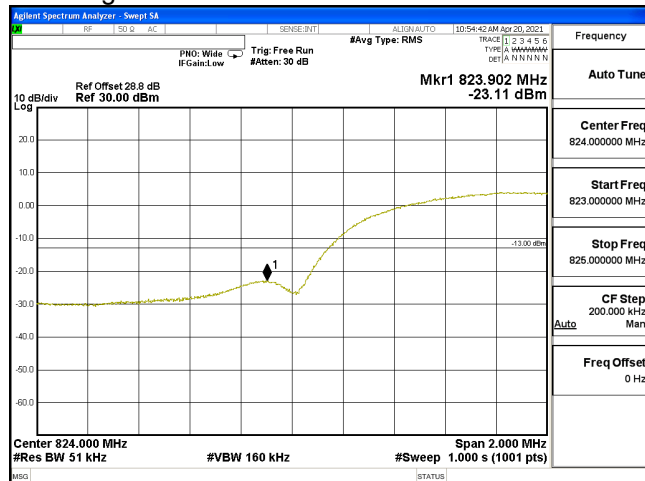
Bandedge B5 CH4233 Voice



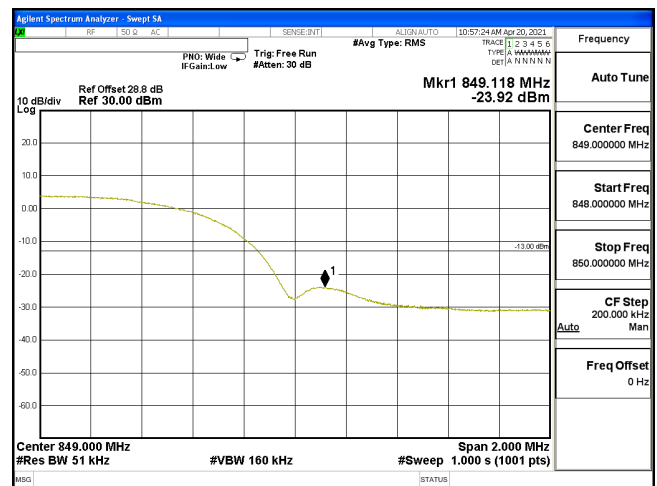
Bandedge B5 CH4132 RMC



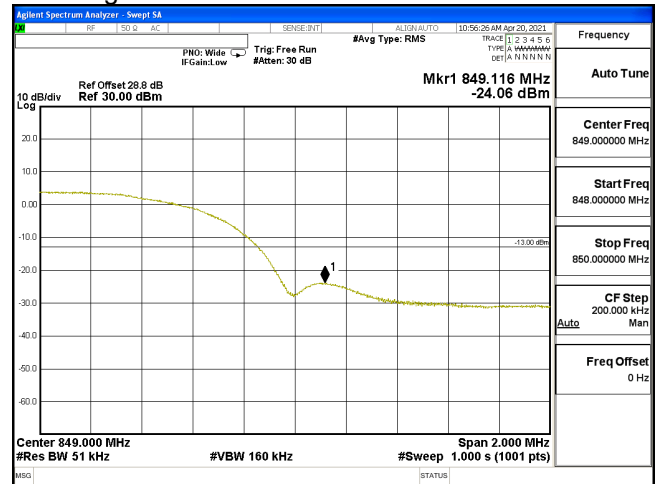
Bandedge B5 CH4132 HSDPA



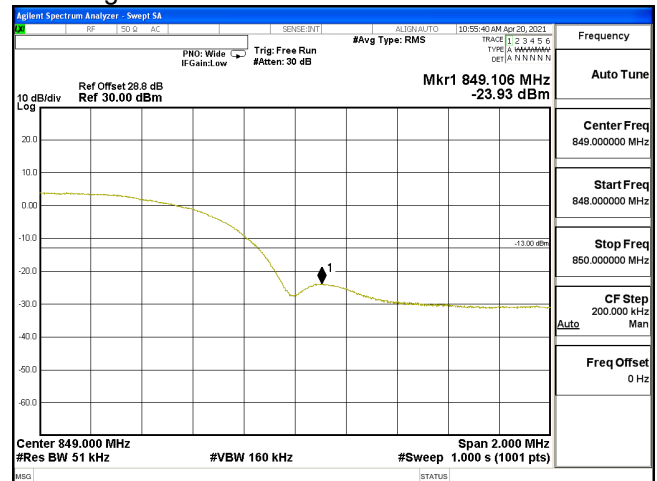
Bandedge B5 CH4132 HSUPA



Bandedge B5 CH4233 RMC



Bandedge B5 CH4233 HSDPA



Bandedge B5 CH4233 HSUPA

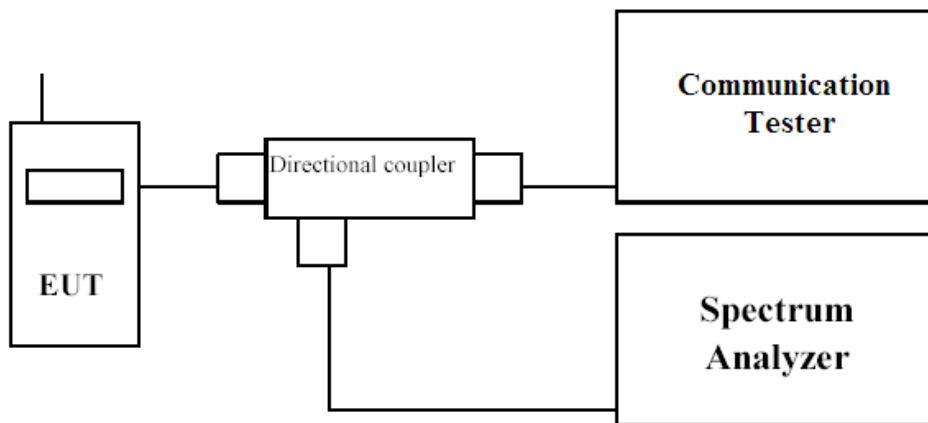
6. Spurious Emission

6.1. Test Specification

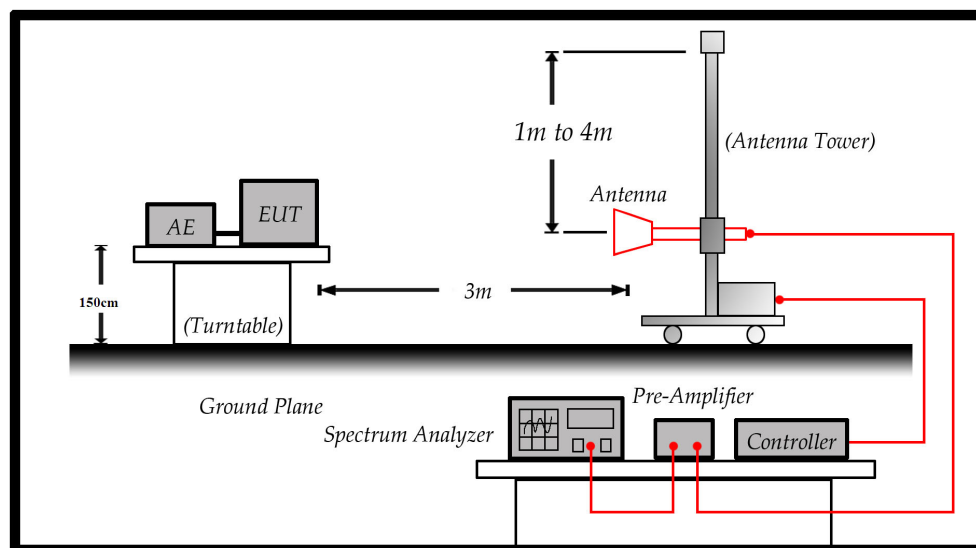
According to Part 2.1051, 2.1053, 22.917, 24.238, 27.53.

6.2. Test Setup

6.1.1 Spurious emissions at antenna terminals.



6.1.2 Field strength of spurious radiation.



6.3. Limits

Limit	<-13dBm
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$43 + 10\log(P)$ down on the carrier where P is the power in Watts.

6.4. Test Procedure

In accordance with Part 2.1051/2.1053, the spurious emissions from the EUT were measured. The transmitter output power was attenuated using a combination of filters and attenuators and the frequency spectrum investigated from 30MHz to 20GHz. The EUT was set to transmit on full power. The resolution and video bandwidth was set to 1MHz and 3 x RBW. in accordance with Part 22.917 & 24.238, 27.53. The spectrum analyzer detector was set to Max Hold. In addition, measurements were made up to the 10th harmonic of the fundamental. The device was then replaced with a substitution antenna, which input signal was adjusted until the received level matched that of the previously detected emission.

- (1) The EUT is tested with maximum rated TX power via the Base Station simulator.
- (2) The EUT is tested in three orthogonal planes; The worst case test configuration was record on report.

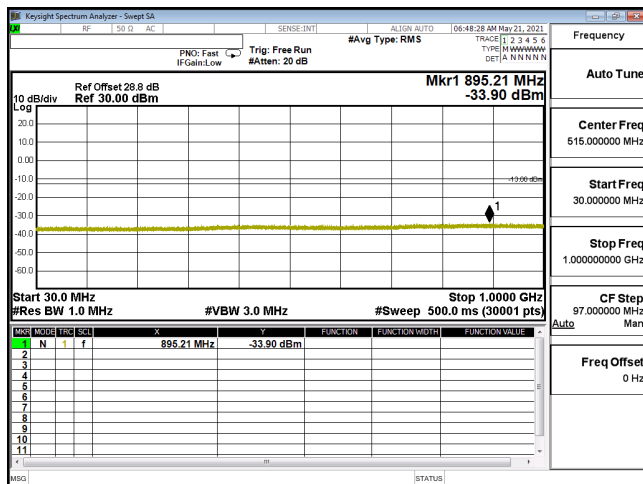
The EUT is placed on a turn table which is 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

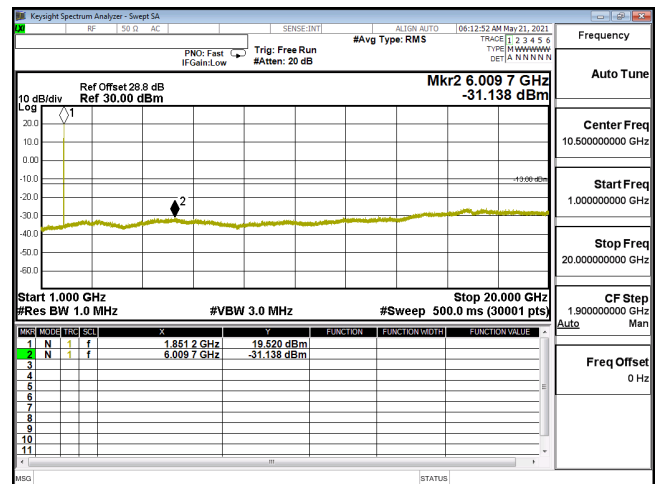
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to TIA/EIA 603-E on radiated measurement.

6.5. Test Result of Spurious Emission

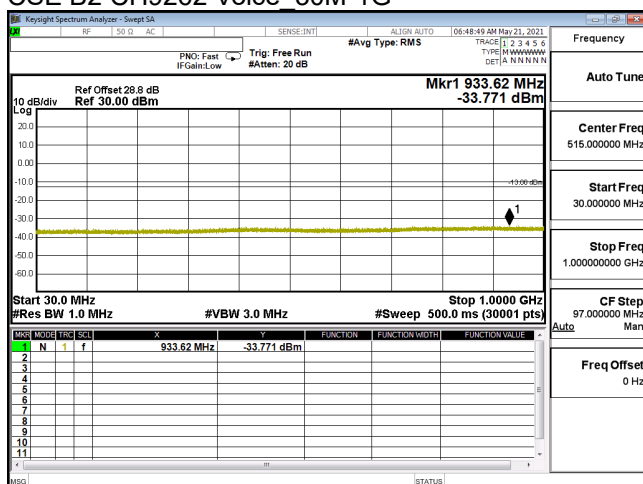
Product	WCDMA/LTE/5G Mobile Phone		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2021/05/21	Test Site	CTR
Test Condition	WCDMA Band2 / Band4	Test Range	30MHz~20GHz
	WCDMA Band5	Test Range	30MHz~10GHz



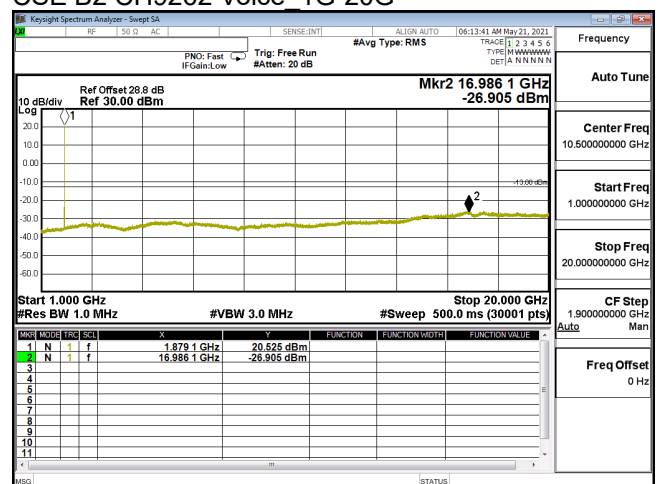
CSE B2 CH9262 Voice 30M-1G



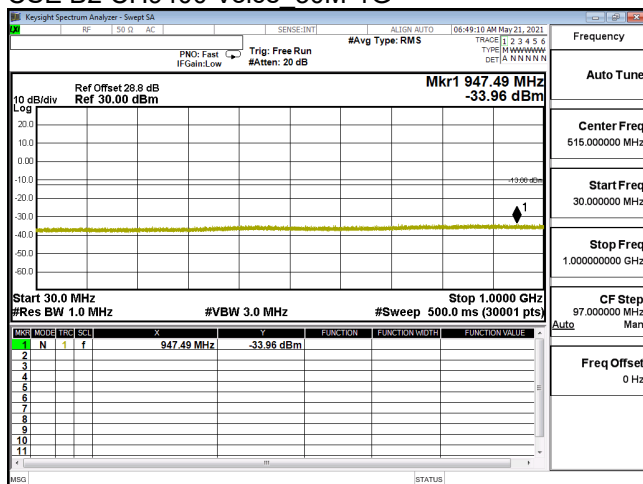
CSE B2 CH9262 Voice 1G-20G



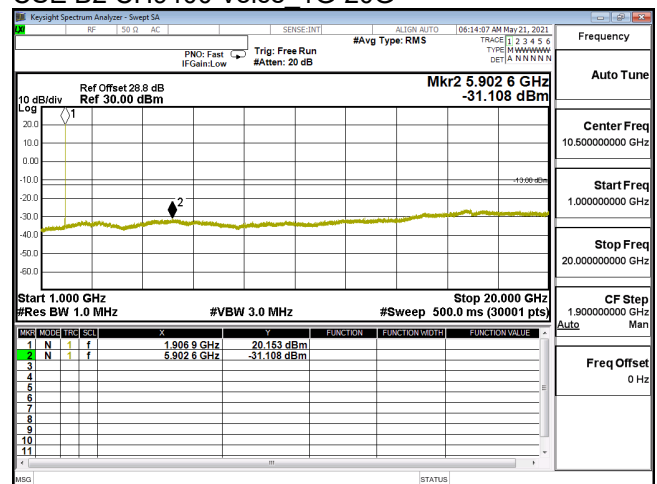
CSE B2 CH9400 Voice 30M-1G



CSE B2 CH9400 Voice 1G-20G



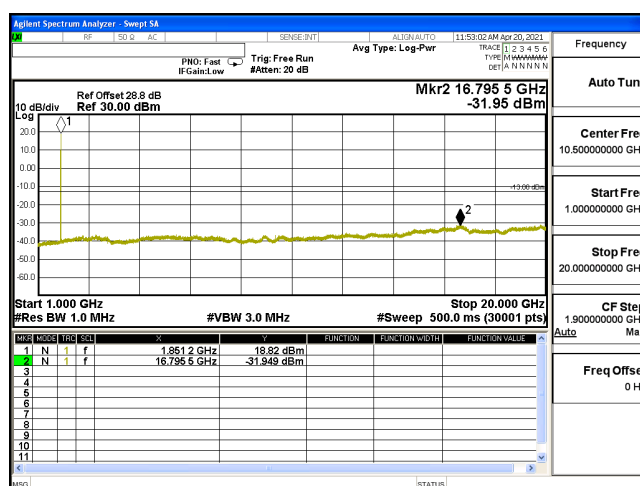
CSE B2 CH9538 Voice_30M-1G



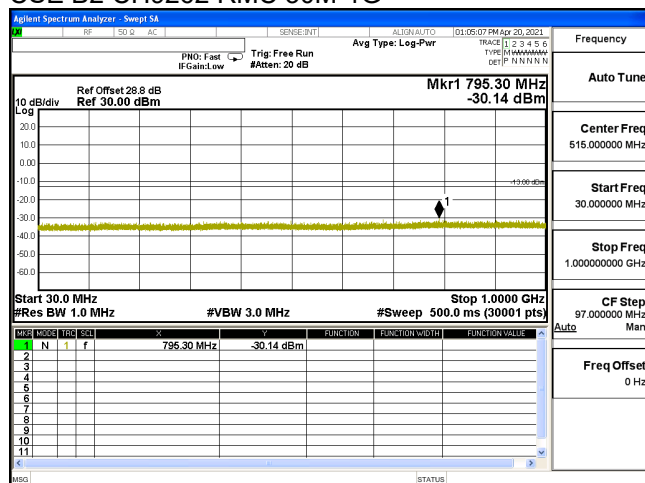
CSE B2 CH9538 Voice_1G-20G



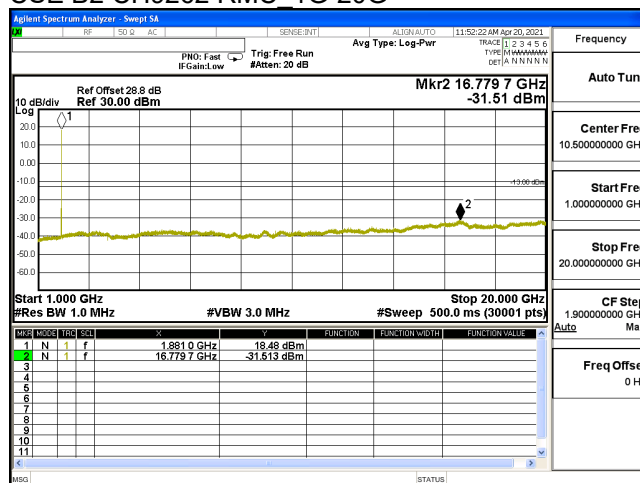
CSE B2 CH9262 RMC 30M-1G



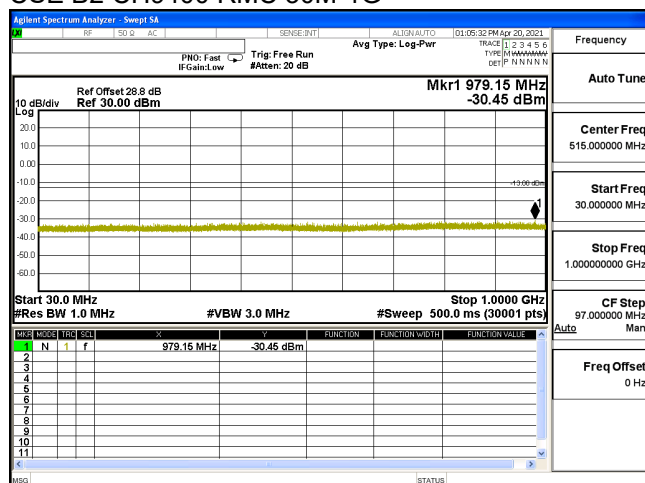
CSE B2 CH9262 RMC 1G-20G



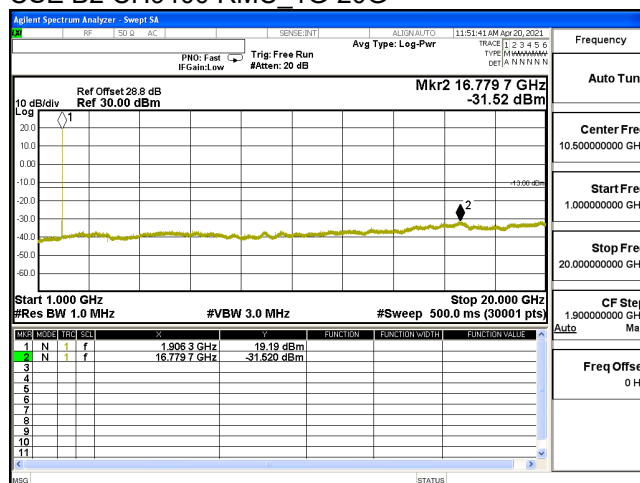
CSE B2 CH9400 RMC 30M-1G



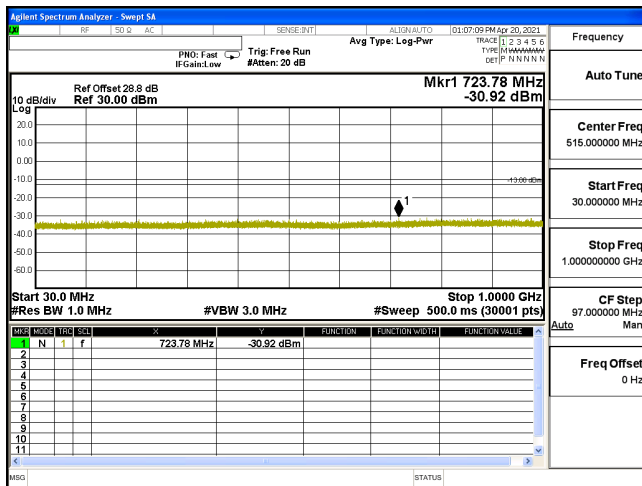
CSE B2 CH9400 RMC 1G-20G



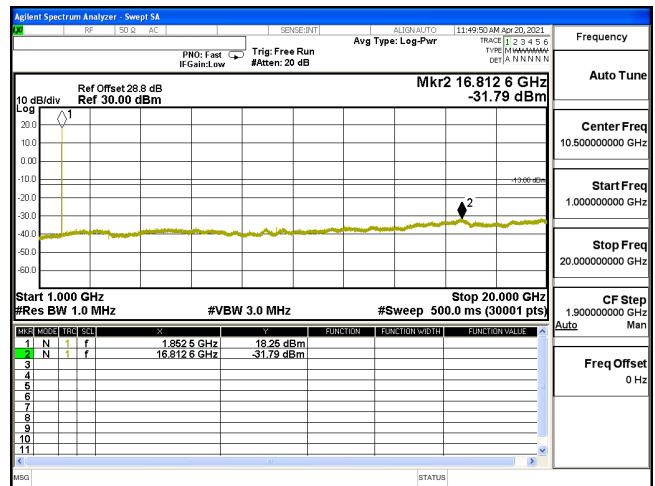
CSE B2 CH9538 RMC 30M-1G



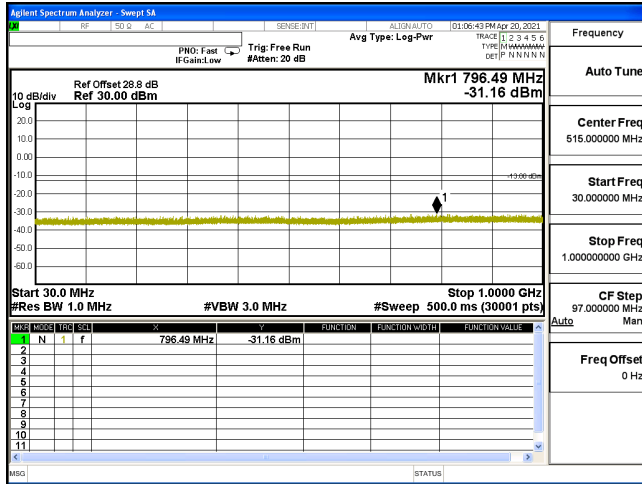
CSE B2 CH9538 RMC_1G-20G



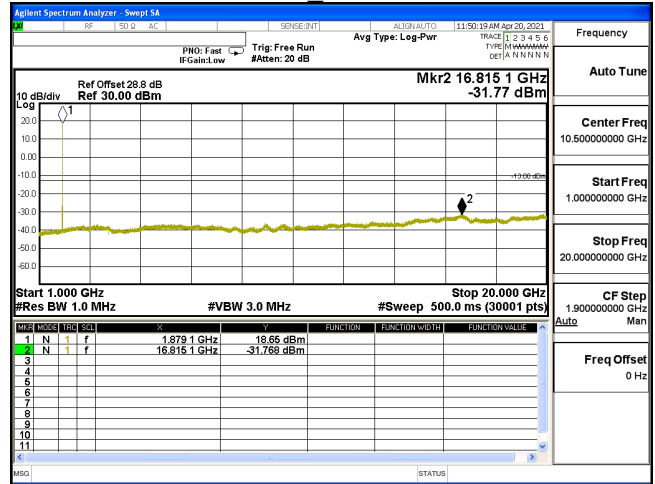
CSE B2 CH9262 HSDPA 30M-1G



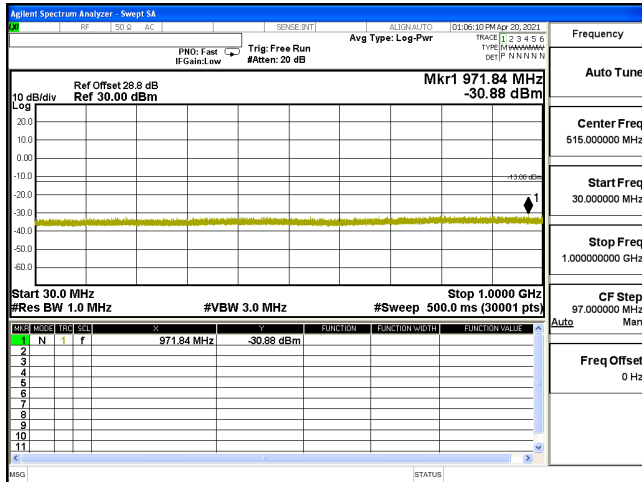
CSE B2 CH9262 HSDPA 1G-20G



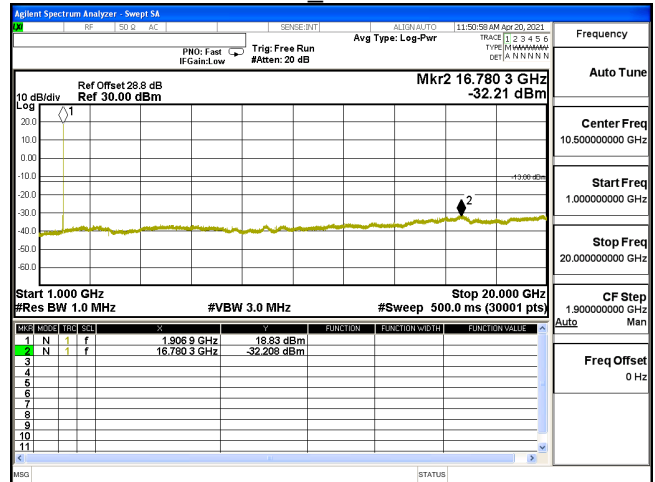
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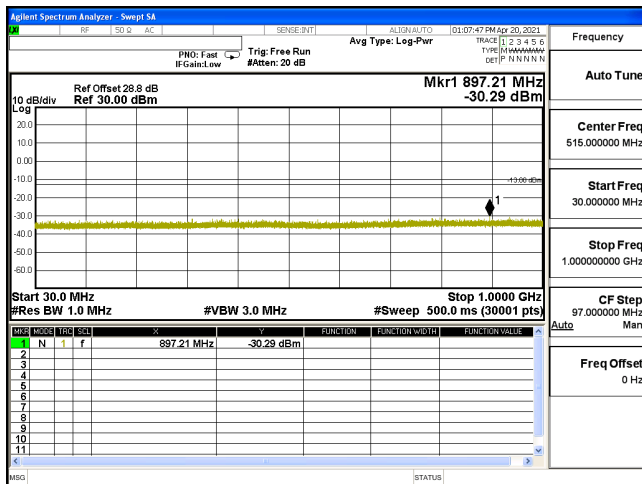
CSE B2 CH9400 HSDPA 1G-20G



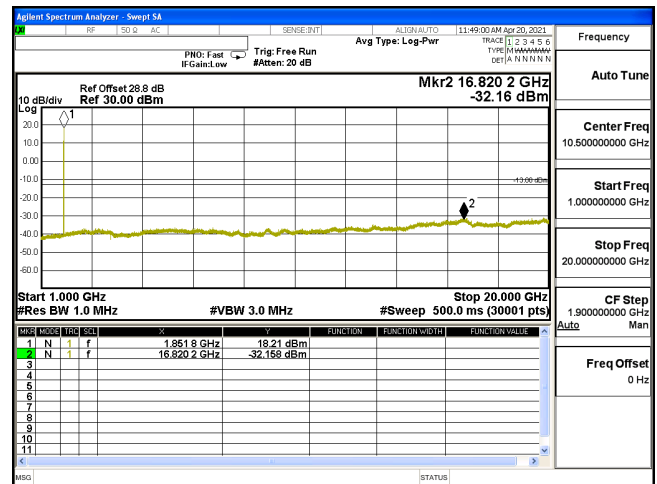
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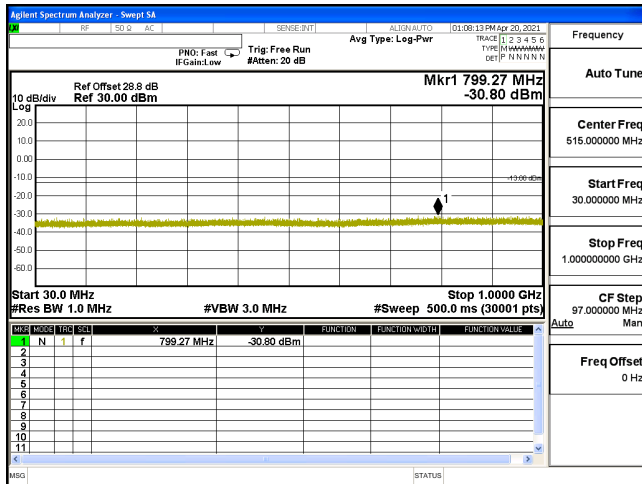
CSE B2 CH9538 HSDPA 1G-20G



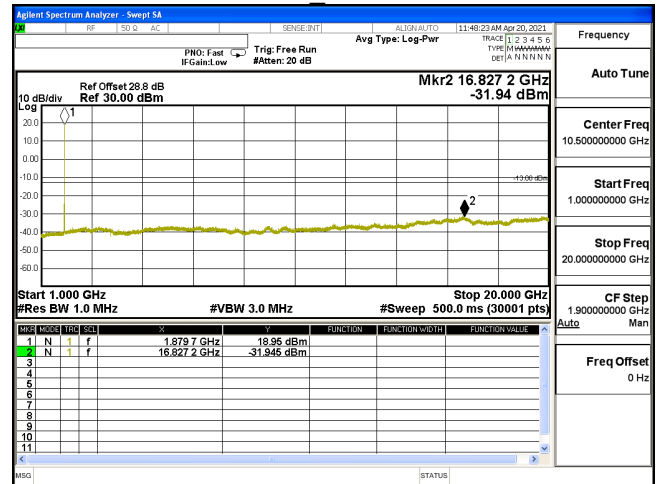
CSE B2 CH9262 HSUPA 30M-1G



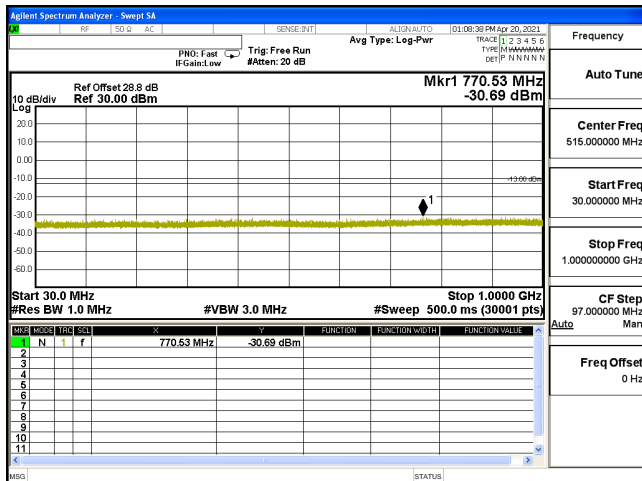
CSE B2 CH9262 HSUPA 1G-20G



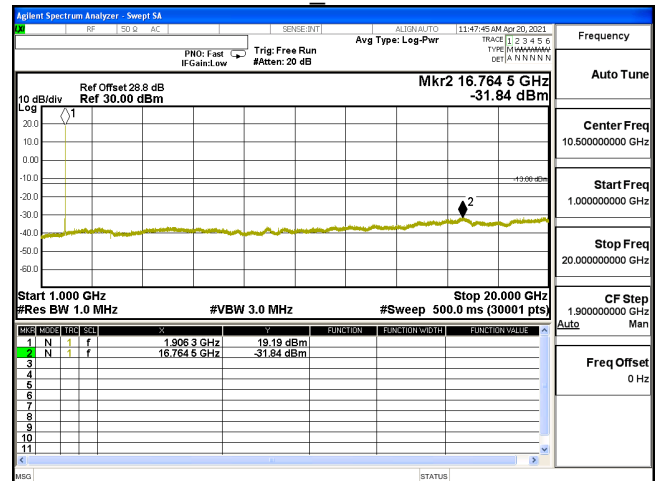
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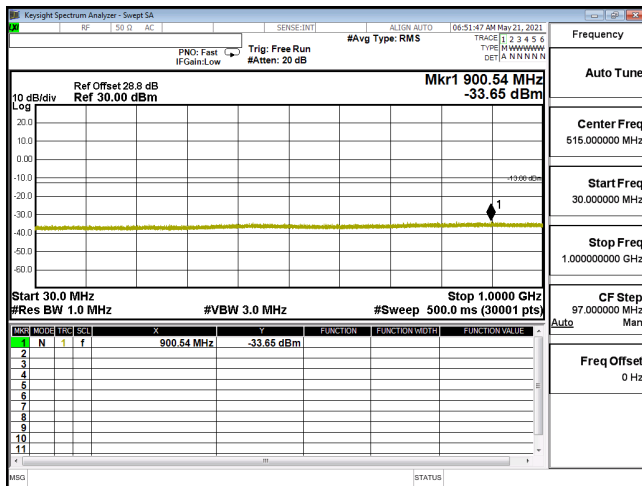
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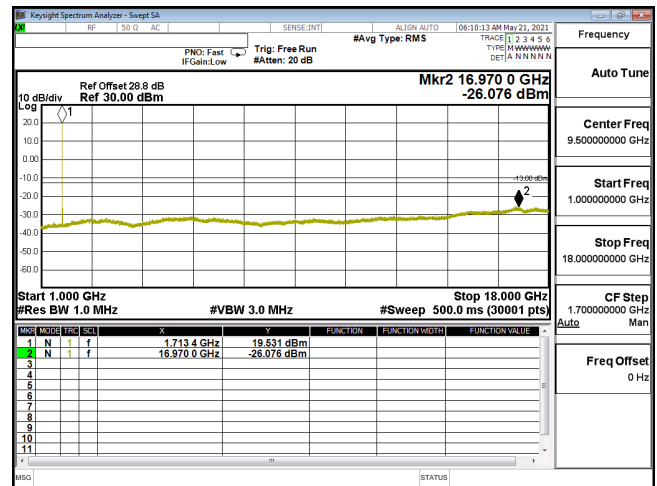
CSE B2 CH9538 HSUPA 30M-1G



CSE B2 CH9538 HSUPA 1G-20G



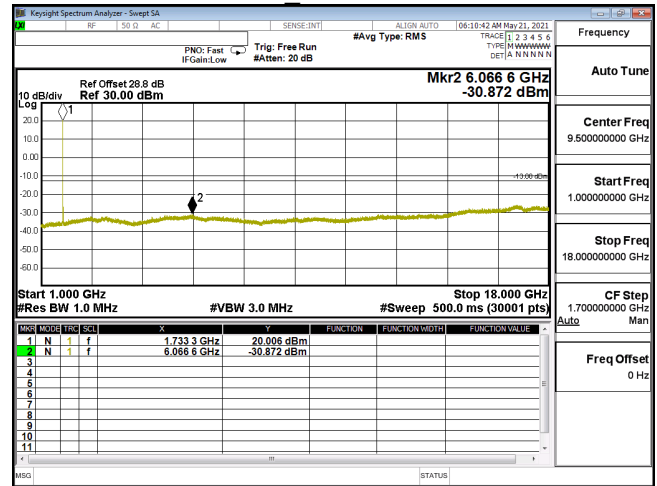
CSE B4 CH1312 Voice 30M-1G



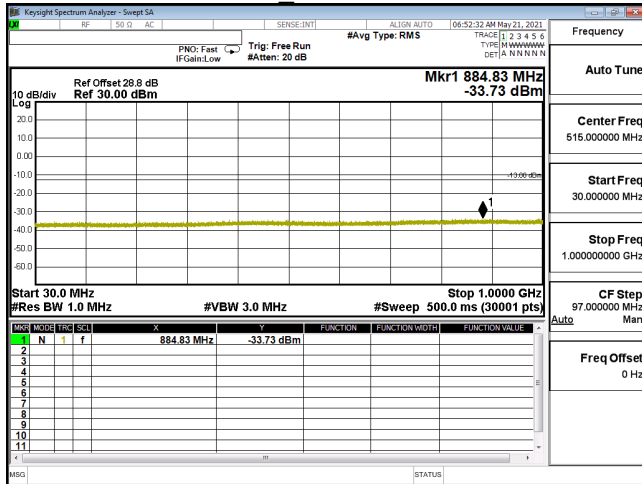
CSE B4 CH1312 Voice 1G-18G



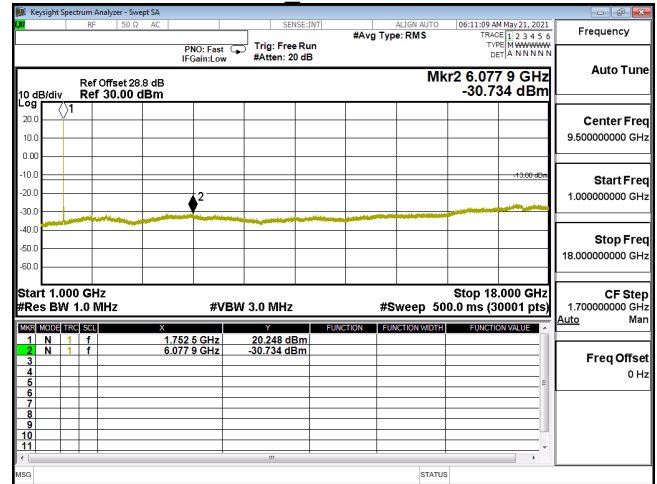
CSE B4 CH1413 Voice 30M-1G



CSE B4 CH1413 Voice 1G-18G



CSE B4 CH1513 Voice_30M-1G



CSE B4 CH1513 Voice_1G-18G