

## TEST REPORT

**Application No.:** SZCR2104020587AT  
**Applicant:** GUANGDONG GENIUS TECHNOLOGY CO., LTD.  
**Address of Applicant:** No.168, Middle Road Of East Gate, Xiaobian Community, Chang'an Town, Dongguan City, Guangdong, China  
**Manufacturer:** GUANGDONG GENIUS TECHNOLOGY CO., LTD.  
**Address of Manufacturer:** No.168, Middle Road Of East Gate, Xiaobian Community, Chang'an Town, Dongguan City, Guangdong, China  
**Factory:** GUANGDONG GENIUS TECHNOLOGY CO., LTD.  
**Address of Factory:** No.168, Middle Road Of East Gate, Xiaobian Community, Chang'an Town, Dongguan City, Guangdong, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Watch Phone  
**Model No.:** W1818AO  
**Trade mark:** imoo  
**FCC ID:** 2AYJF118  
**Standard(s) :** 47 CFR Part 2  
47 CFR Part 22 subpart H  
47 CFR Part 24 subpart E  
**Date of Receipt:** 2021-04-16  
**Date of Test:** 2021-04-19 to 2021-05-17  
**Date of Issue:** 2021-06-17

<b>Test Result:</b>	<b>Pass*</b>
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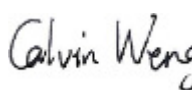

\* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu  
EMC Laboratory Manager



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<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2021-06-17		Original

<b>Authorized for issue by:</b>			
		 <hr/> <b>Calvin Weng /Project Engineer</b>	
		 <hr/> <b>Eric Fu /Reviewer</b>	



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## 2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913, §24.232	ERP≤7W(WCDMA band V/CDMA BC0) EIRP≤2W(WCDMA band II)	PASS
Peak-Average Ratio	§22.913 §24.232	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051, §22.917, §24.238	≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	PASS
Spurious emissions at antenna terminals	§2.1051, §22.917, §24.238	≤ -13dBm	PASS
Field strength of spurious radiation	§2.1051, §22.917, §24.238	≤ -13dBm	PASS
Frequency stability	§2.1055, §22.355, §24.235	≤ ±2.5ppm.	PASS



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC3.85V by li-ion battery(680mAh) Recharge input: DC5V/1200mA from power adapter
Cable(s):	USB charge cable: 1m unshielded cable without ferrite core
Sample Type:	Portable production
Support Network:	RMC, HSDPA, HSUPA for WCDMA CDMA 1x for CDMA
Operation Frequency Band:	UMTS FDD Band II/V CDMA BC0
Modulation Type:	QPSK for WCDMA OQPSK/H-PSK/QPSK for CDMA BC0
Supported Channel Bandwidth:	5MHz for WCDMA 1.48MHz for CDMA
UMTS Power Class:	Level 3
Antenna Type:	PIFA antenna
Antenna Gain:	WCDMA band II: -1.67dBi; band V/CDMA BC0: -4.23dBi
Extreme temp. Tolerance:	-30 °C to +50 °C
Extreme vol. Limits:	3.6VDC to 4.4VDC (nominal: 3.85VDC)



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### 4.2 Test Frequency

Test Mode	RF Channel		
	Low(L)	Middle (M)	High (H)
WCDMA Band V	Channel 4132	Channel 4183	Channel 4233
	826.4 MHz	836.6 MHz	846.6 MHz
Test Mode	RF Channel		
	Low(L)	Middle (M)	High (H)
WCDMA Band II	Channel 9262	Channel 9400	Channel 9538
	1852.4 MHz	1880.0 MHz	1907.6 MHz
Test Mode	RF Channel		
	Low(L)	Middle (M)	High (H)
CDMA BC0	Channel 1013	Channel 384	Channel 777
	824.7 MHz	836.52 MHz	848.31 MHz

### 4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	52%	
Atmospheric Pressure:	1015Pa	
Temperature:	TL	-30 °C
	TN	+20 °C
	TH	+50 °C
Voltage:	VL	3.6 V
	VN	3.85 V
	VH	4.4 V

NOTE: VL= lower extreme test voltage  
VN= nominal voltage  
VH= upper extreme test voltage  
TL= lower extreme test temperature  
TN= normal temperature  
TH= upper extreme test temperature



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#### 4.4 Description of Support Units

The EUT has been tested independent unit.

#### 4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.75\text{dB}$
5	RF power density	$\pm 2.84\text{dB}$
6	Conducted Spurious emissions	$\pm 0.75\text{dB}$
7	RF Radiated power	$\pm 4.5\text{dB}$ (below 1GHz)
		$\pm 4.8\text{dB}$ (above 1GHz)
8	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
9	Temperature test	$\pm 1^\circ\text{C}$
10	Humidity test	$\pm 3\%$
11	Supply voltages	$\pm 1.5\%$
12	Time	$\pm 3\%$



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#### 4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

#### 4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### 4.8 Deviation from Standards

None

#### 4.9 Abnormalities from Standard Conditions

None



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## 5 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
DC Power Supply	ZhaoXin	PS-3005D	SEM011-05	2020-09-23	2021-09-22
Signal Analyzer (10Hz-40GHz)	Rohde & Schwarz	FSV40	SEM008-04	2021-03-30	2022-03-29
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.6	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2021-03-30	2022-03-29
Power Sensor	KEYSIGHT	U2021XA	SEM009-13	2021-04-10	2022-04-09

RE in Chamber(below 1GHz)					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2020-09-23	2021-09-22
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2019-05-24	2022-05-23
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2021-03-30	2022-03-29



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<b>RE in Chamber(above 1GHz)</b>					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25
EXA Signal Analyzer (10Hz-44GHz)	Agilent Technologies Inc	N9010A	SEM004-12	2021-04-10	2022-04-09
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2020-09-23	2021-09-22
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Pre-amplifier (26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021-03-30	2022-03-29
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2021-03-30	2022-03-29
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
Substitution Antenna	Rohde&Schwarz	HF907	SEM003-06	2021-04-17	2024-04-16
Signal Generator	R&S	SMA100A	102174	2020-07-10	2021-07-09

<b>General used equipment</b>					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29



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## 6 Radio Spectrum Matter Test Results

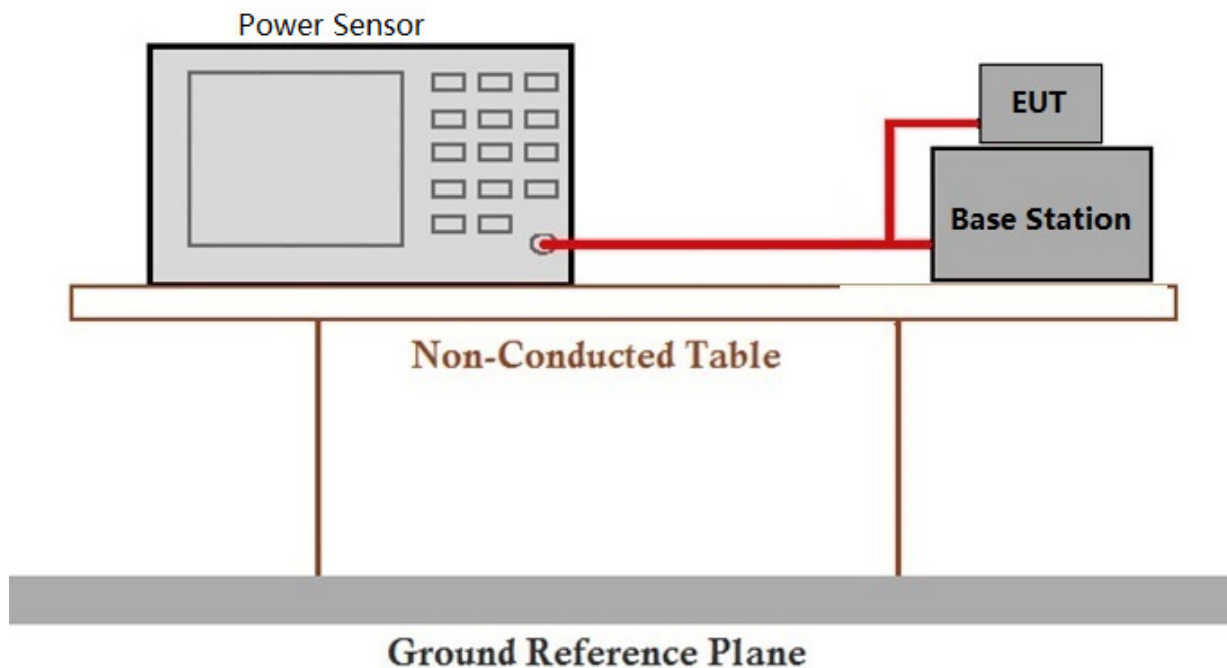
### 6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §22.913, §24.232  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: ERP≤7W(WCDMA BAND V/CDMA BC0)  
 EIRP≤2W(WCDMA BAND II)

#### 6.1.1 E.U.T. Operation

Operating Environment:  
 Temperature: 19.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar  
 Test mode: 20: TX mode\_Keep the EUT in transmitting mode

#### 6.1.2 Test Setup Diagram



#### 6.1.3 Measurement Data



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Test Band: WCDMA B2											
Test Mode		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
		LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
HSUPA	Subtest 1	17.66	17.26	18.05	/	-1.67	15.99	15.59	16.38	33.01	PASS
	Subtest 2	17.68	17.76	18.04	/	-1.67	16.01	16.09	16.37	33.01	PASS
	Subtest 3	17.2	17.54	17.57	/	-1.67	15.53	15.87	15.9	33.01	PASS
	Subtest 4	17.47	17.81	17.52	/	-1.67	15.8	16.14	15.85	33.01	PASS
	Subtest 5	17.43	17.31	17.85	/	-1.67	15.76	15.64	16.18	33.01	PASS
HSDPA	Subtest 1	17.74	17.82	17.97	/	-1.67	16.07	16.15	16.3	33.01	PASS
	Subtest 2	17.88	18.2	18.17	/	-1.67	16.21	16.53	16.5	33.01	PASS
	Subtest 3	17.38	17.59	17.97	/	-1.67	15.71	15.92	16.3	33.01	PASS
	Subtest 4	17.7	17.67	17.65	/	-1.67	16.03	16	15.98	33.01	PASS
RMC	12.2kbps RMC	21.75	22.04	22.12	/	-1.67	20.08	20.37	20.45	33.01	PASS

Note:  
1) dBd = dBi - 2.15  
2) EIRP = Conducted output power + Antenna gain (dBi)  
3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: WCDMA B5											
Test Mode		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
		LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
HSUPA	Subtest 1	18.11	17.87	17.92	-6.38	-4.23	11.73	11.49	11.54	38.45	PASS
	Subtest 2	18.16	18.2	18.08	-6.38	-4.23	11.78	11.82	11.70	38.45	PASS
	Subtest 3	18.22	18.2	18.07	-6.38	-4.23	11.84	11.82	11.69	38.45	PASS
	Subtest 4	18.17	18.45	18.03	-6.38	-4.23	11.79	12.07	11.65	38.45	PASS
	Subtest 5	18.03	17.97	18.1	-6.38	-4.23	11.65	11.59	11.72	38.45	PASS
HSDPA	Subtest 1	18.24	18.51	18.63	-6.38	-4.23	11.86	12.13	12.25	38.45	PASS
	Subtest 2	18.51	19.02	18.43	-6.38	-4.23	12.13	12.64	12.05	38.45	PASS
	Subtest 3	18.3	18.74	18.19	-6.38	-4.23	11.92	12.36	11.81	38.45	PASS
	Subtest 4	19.47	18.34	14.45	-6.38	-4.23	13.09	11.96	8.07	38.45	PASS
RMC	12.2kbps RMC	22.86	22.7	22.69	-6.38	-4.23	16.48	16.32	16.31	38.45	PASS

Note:  
1) dBd = dBi - 2.15



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- 2) EIRP = Conducted output power + Antenna gain (dBi)  
 3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: CDMA BC0										
Test Mode	Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
SO2	23.06	23.12	22.93	-6.02	-3.87	17.04	17.10	16.91	38.45	PASS

Note:  
 1) dBd = dBi - 2.15  
 2) EIRP = Conducted output power + Antenna gain (dBi)  
 3) ERP = Conducted output power + Antenna gain (dBd)



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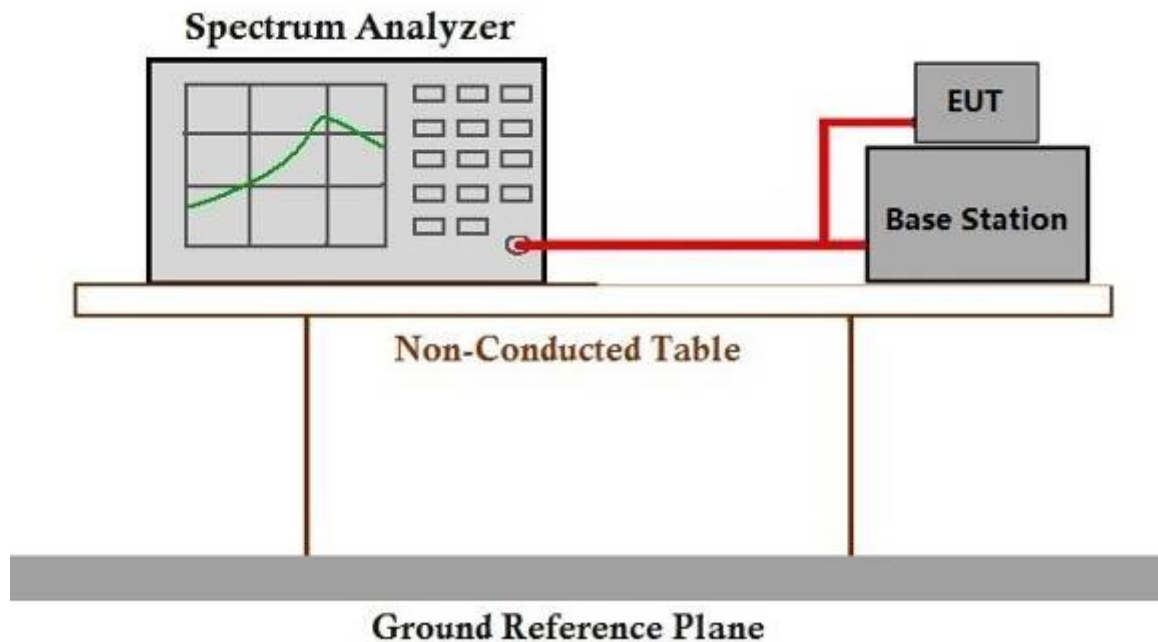
## 6.2 Peak-Average Ratio

Test Requirement: §22.913, §24.232  
 Test Method: ANSI C63.26, KDB 971 168 D01 v03  
 Limit: ≤13dB

### 6.2.1 E.U.T. Operation

Operating Environment:  
 Temperature: 19.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar  
 Test mode: 20: TX mode\_Keep the EUT in transmitting mode

### 6.2.2 Test Setup Diagram



### 6.2.3 Measurement Data



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Test Band: WCDMA B2					
Test Mode	Test result (dB)			Limit (dB)	Verdict
	LCH	MCH	HCH		
HSUPA	5.68	5.70	5.61	13	PASS
HSDPA	5.69	5.68	5.62	13	PASS
RMC	2.92	2.89	2.61	13	PASS

Test Band: WCDMA B5					
Test Mode	Test result (dB)			Limit (dB)	Verdict
	LCH	MCH	HCH		
HSUPA	5.70	5.75	5.80	13	PASS
HSDPA	5.66	5.81	5.79	13	PASS
RMC	2.99	3.07	2.94	13	PASS

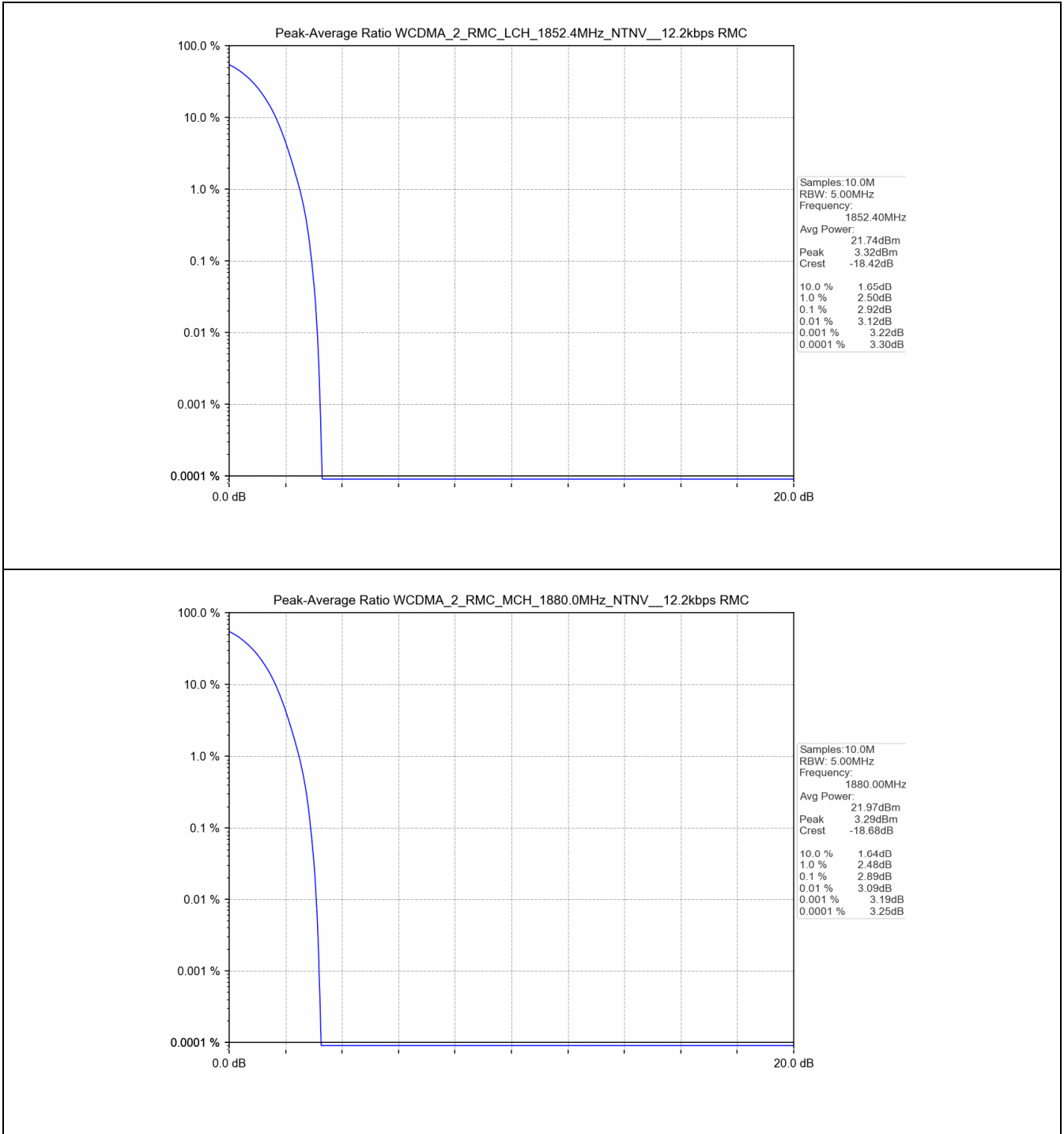
Test Band: CDMA BC0					
Test Mode	Test result (dB)			Limit (dB)	Verdict
	LCH	MCH	HCH		
SO2	2.96	3.32	3.16	13	PASS



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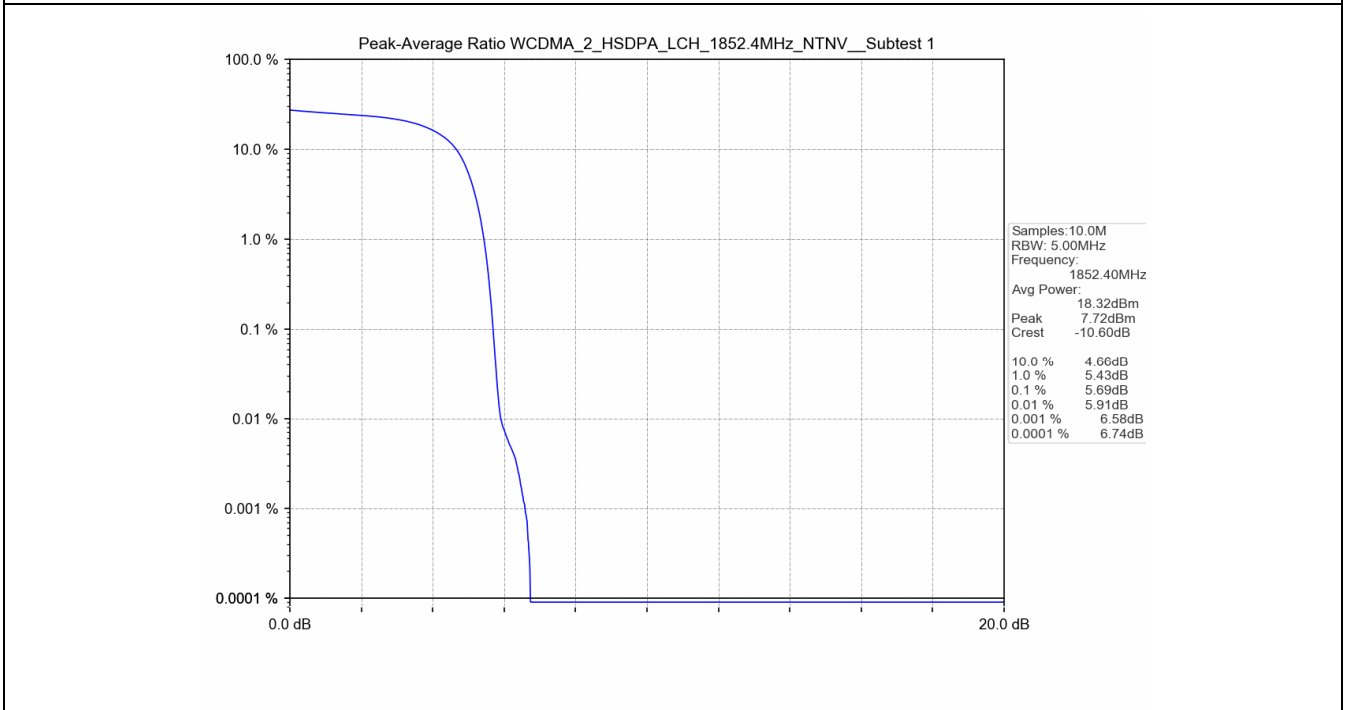
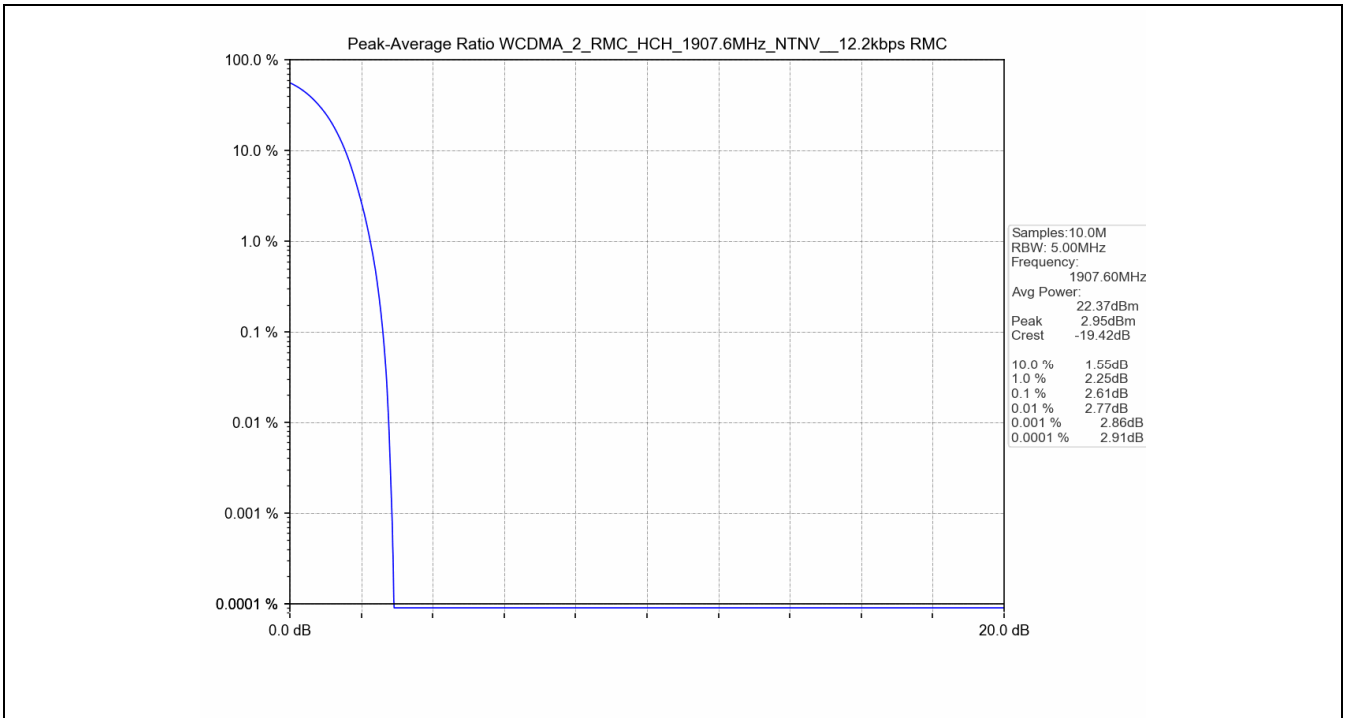
WCDMA Band 2



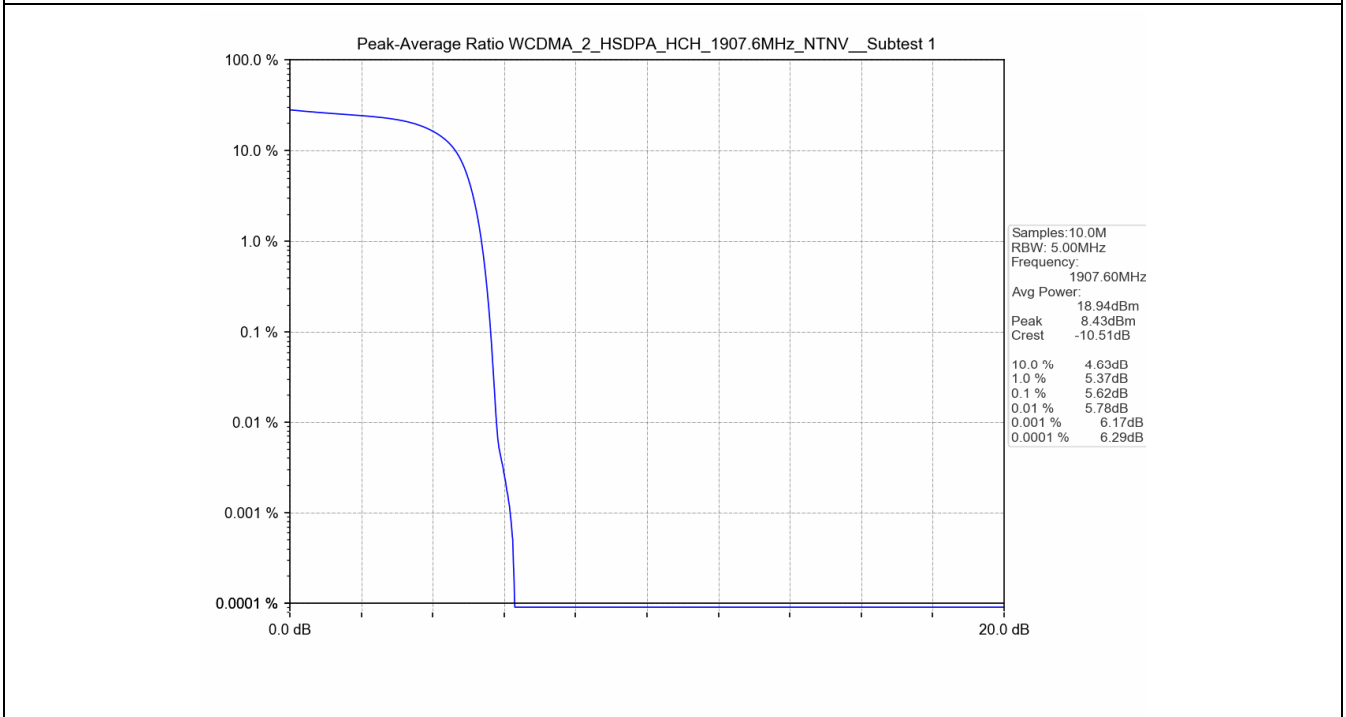
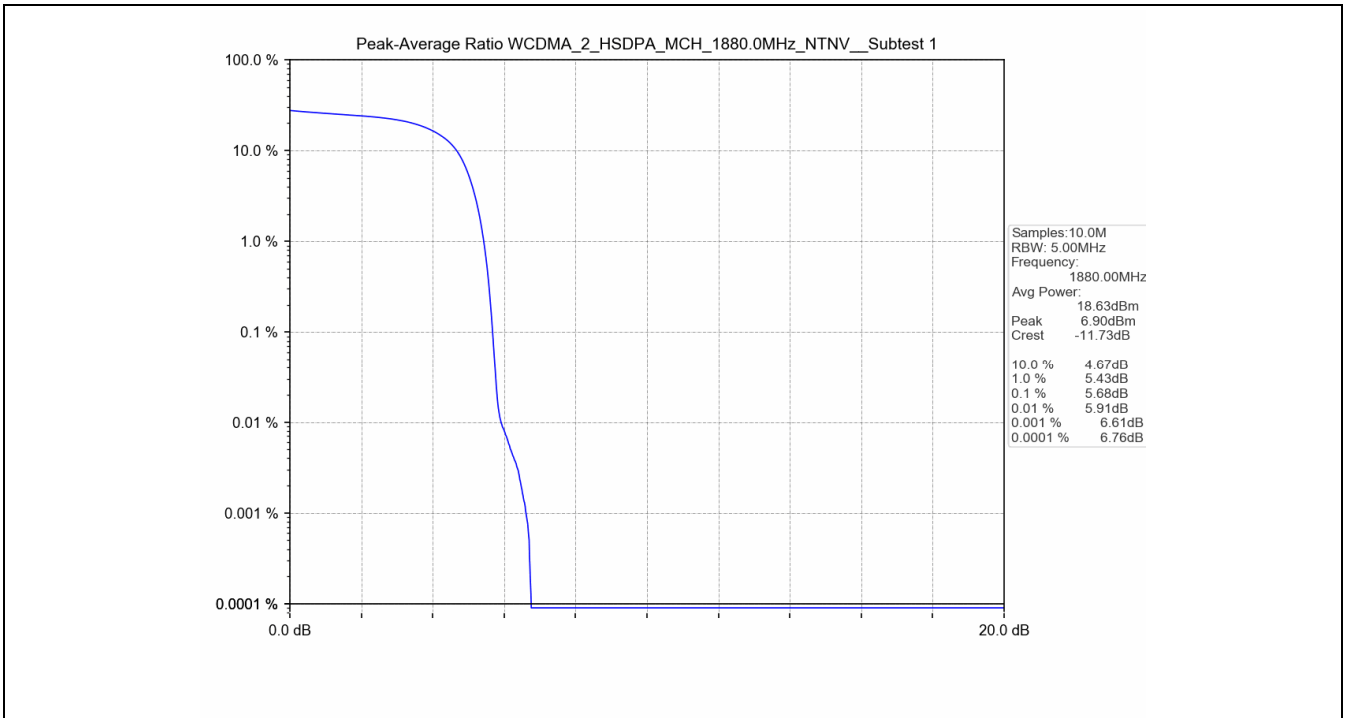
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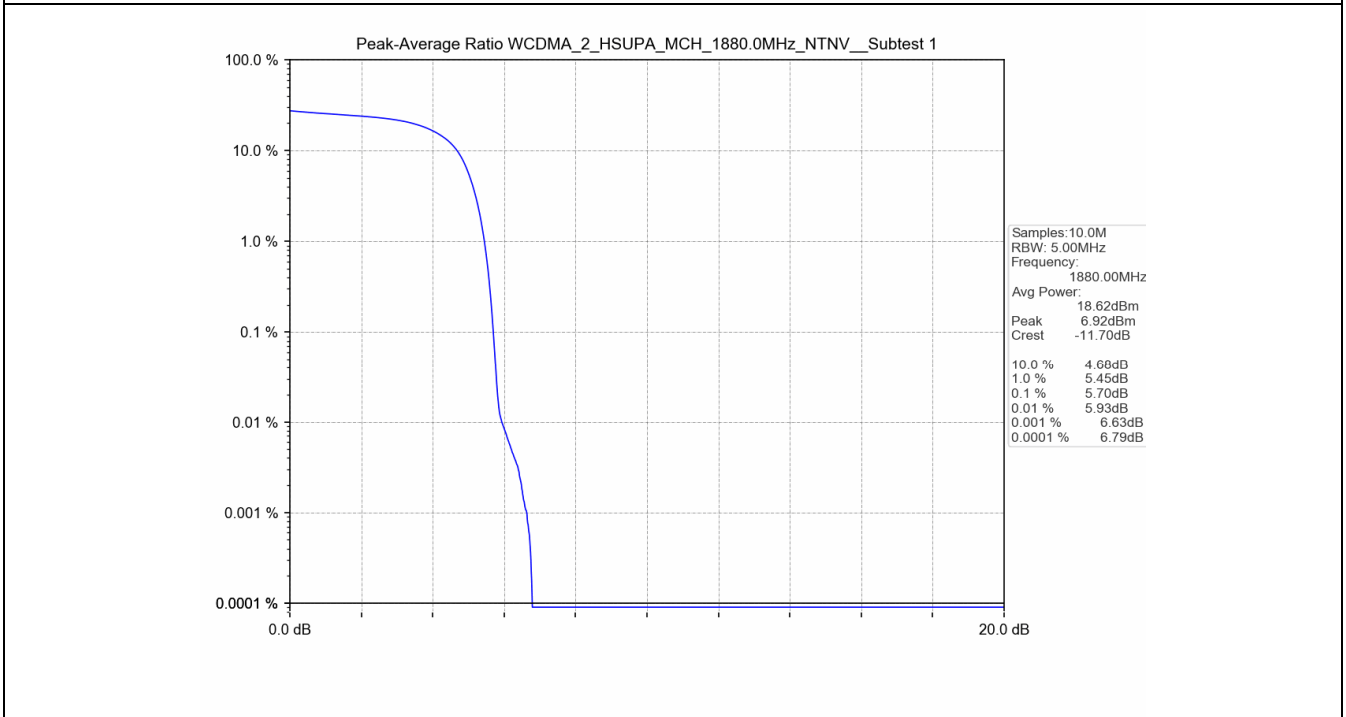
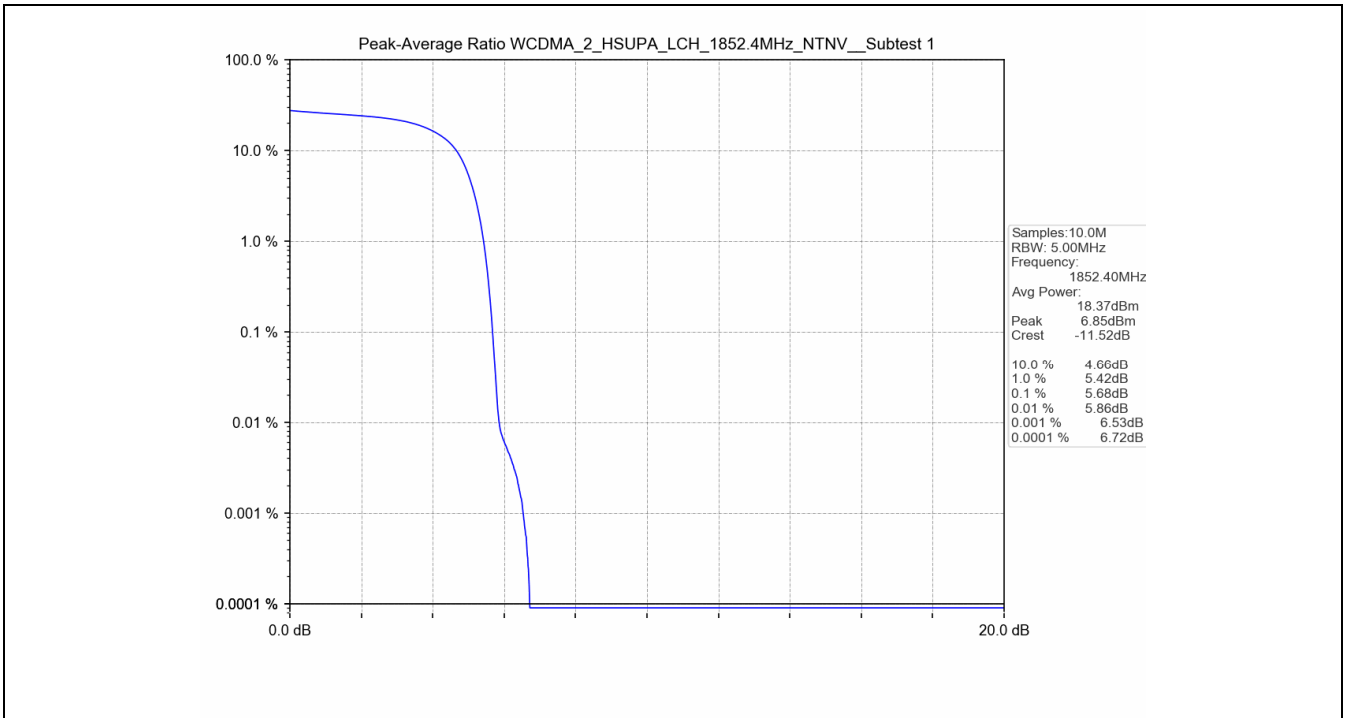
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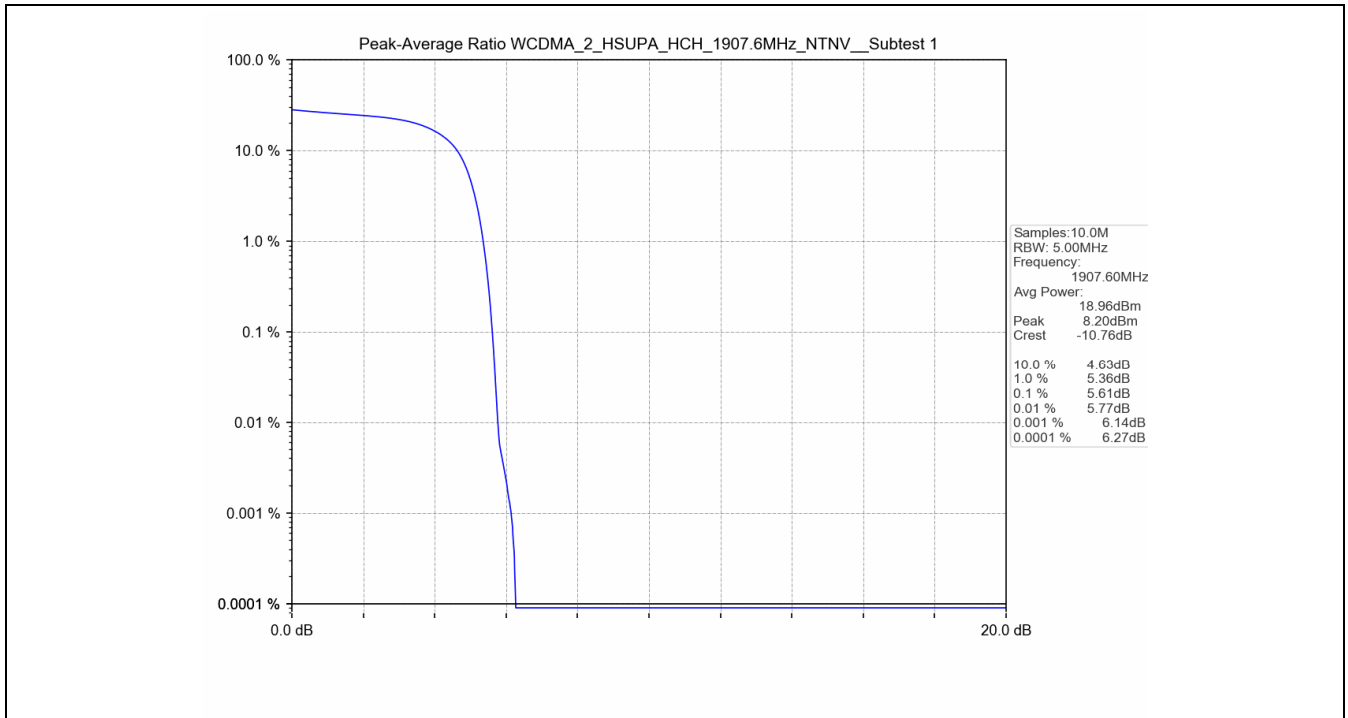
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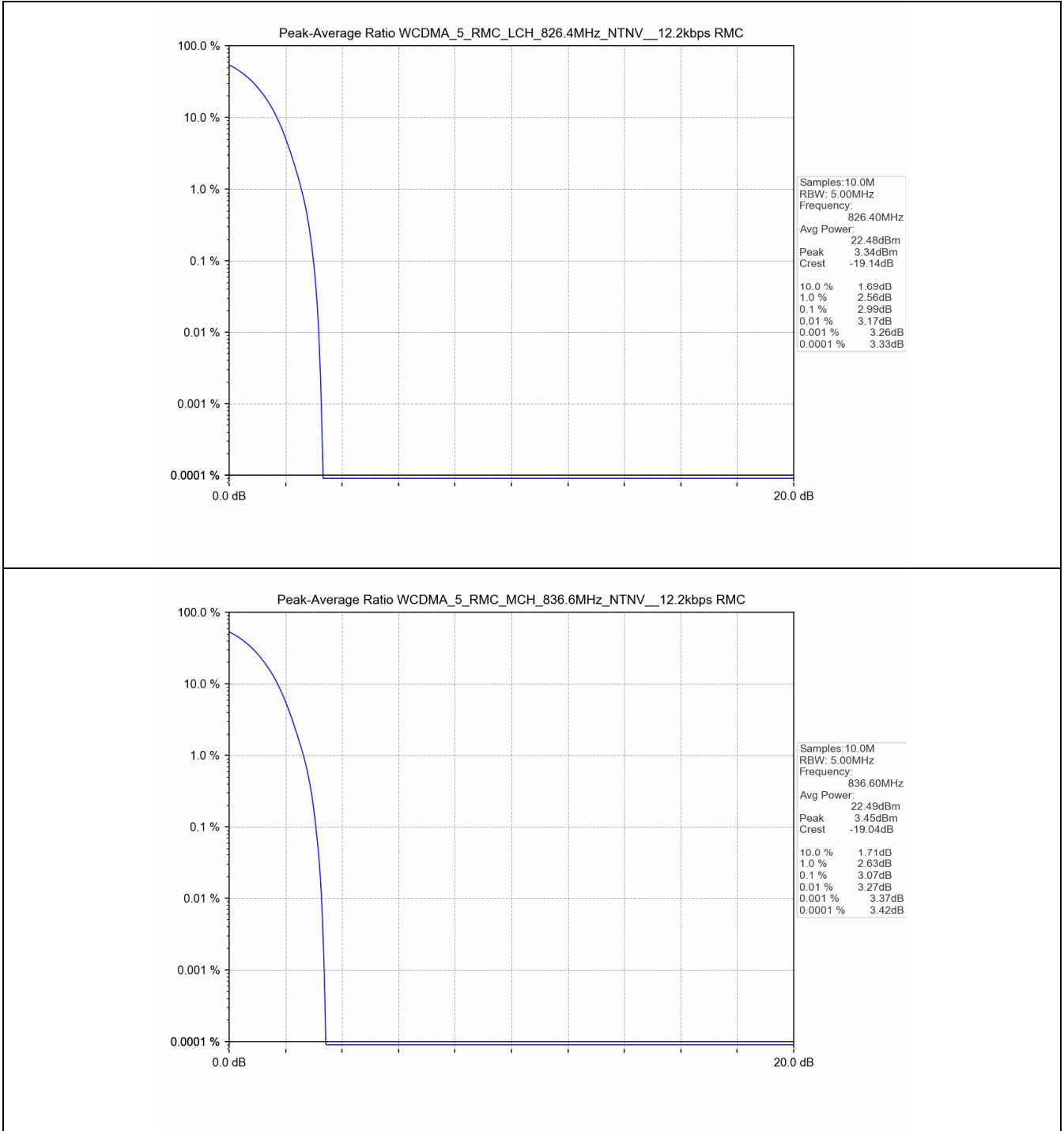


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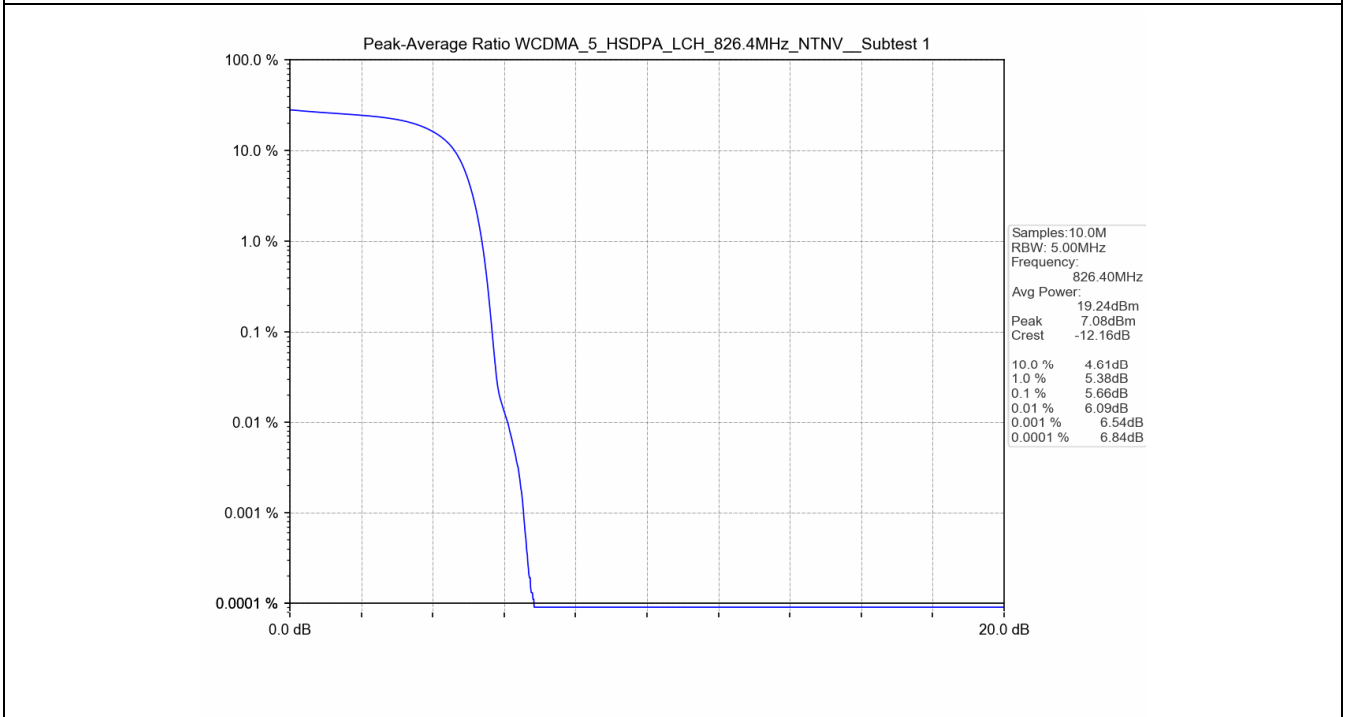
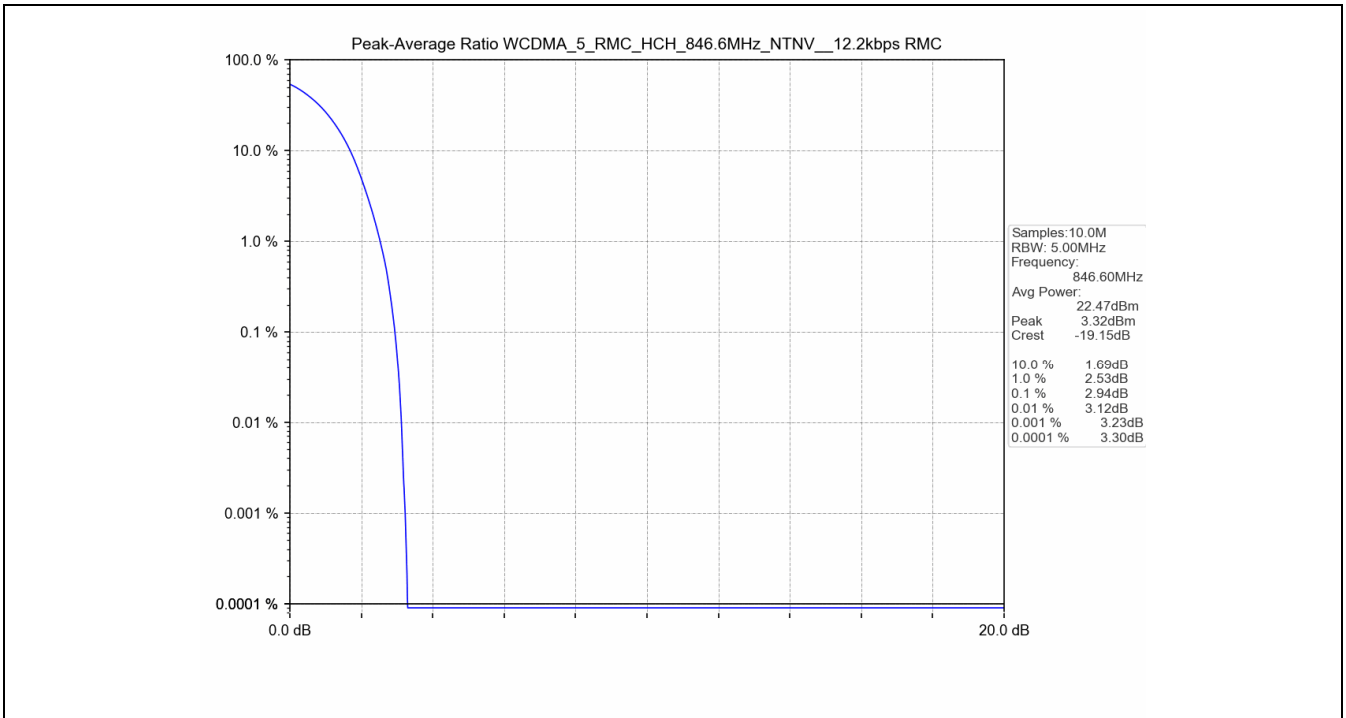


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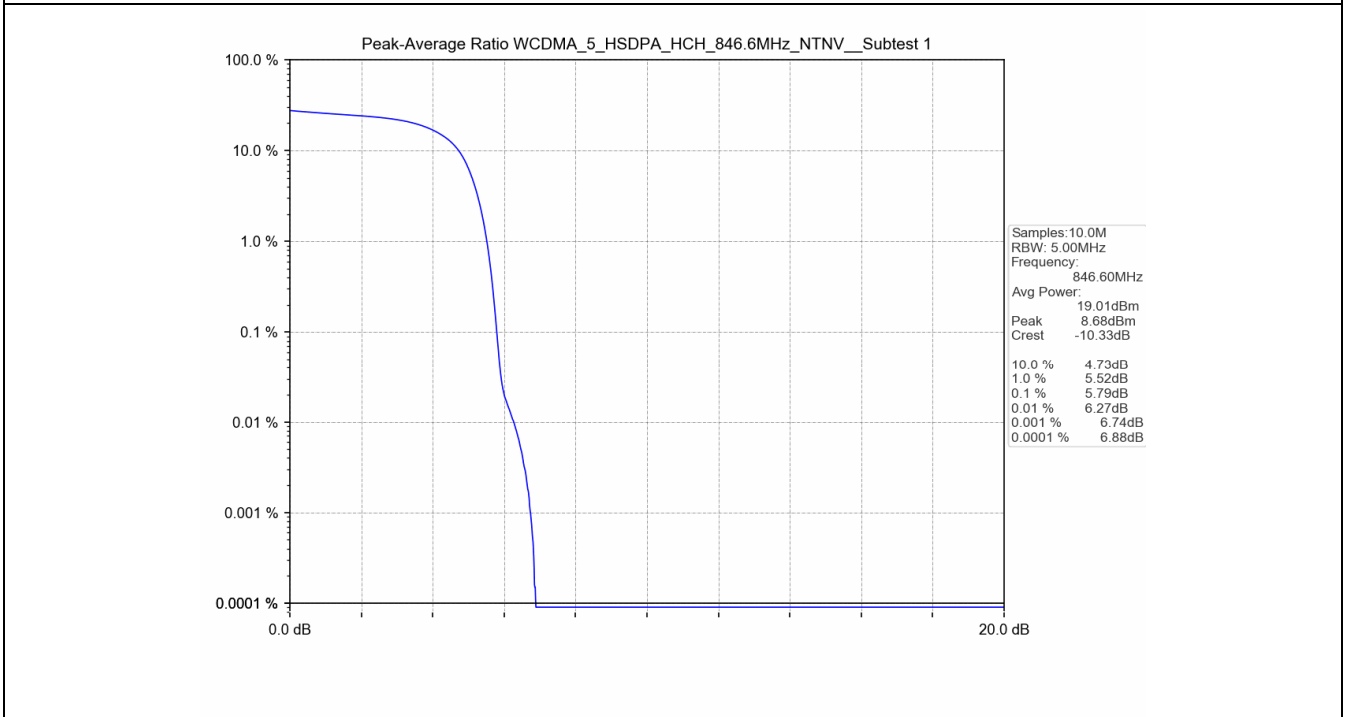
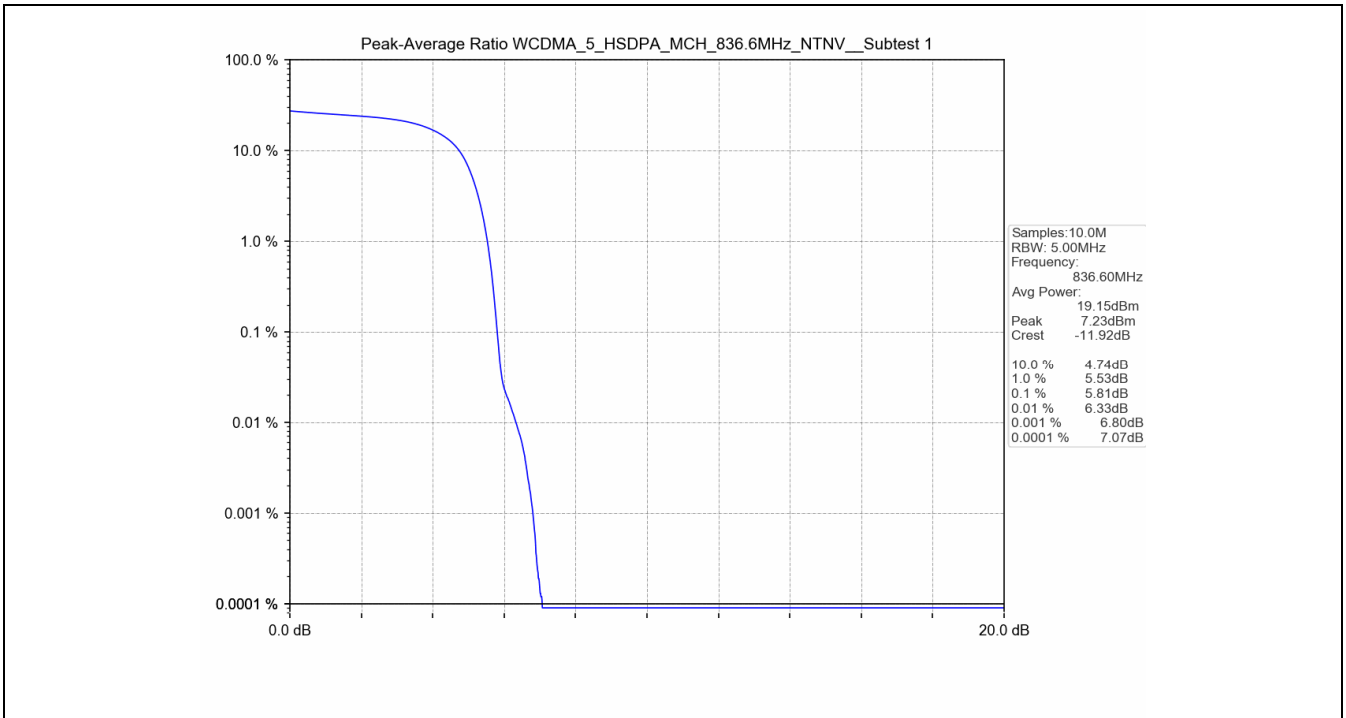
WCDMA B5



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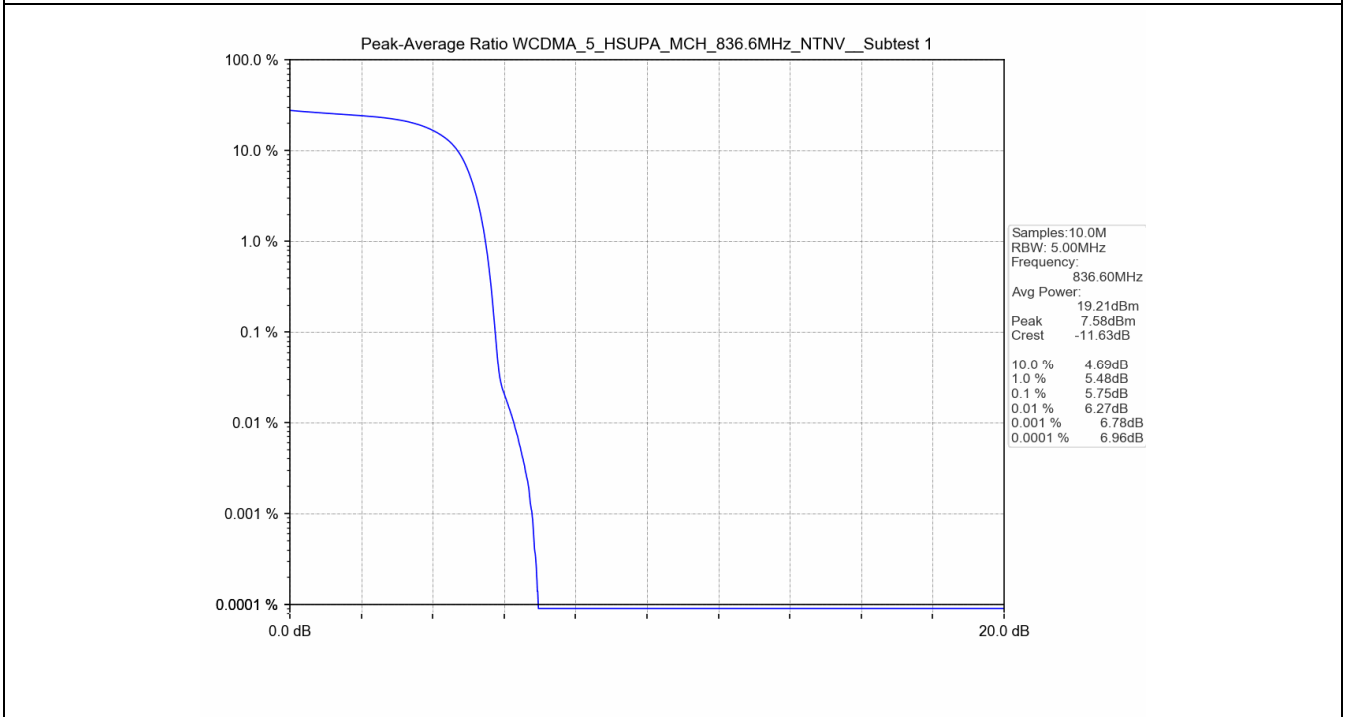
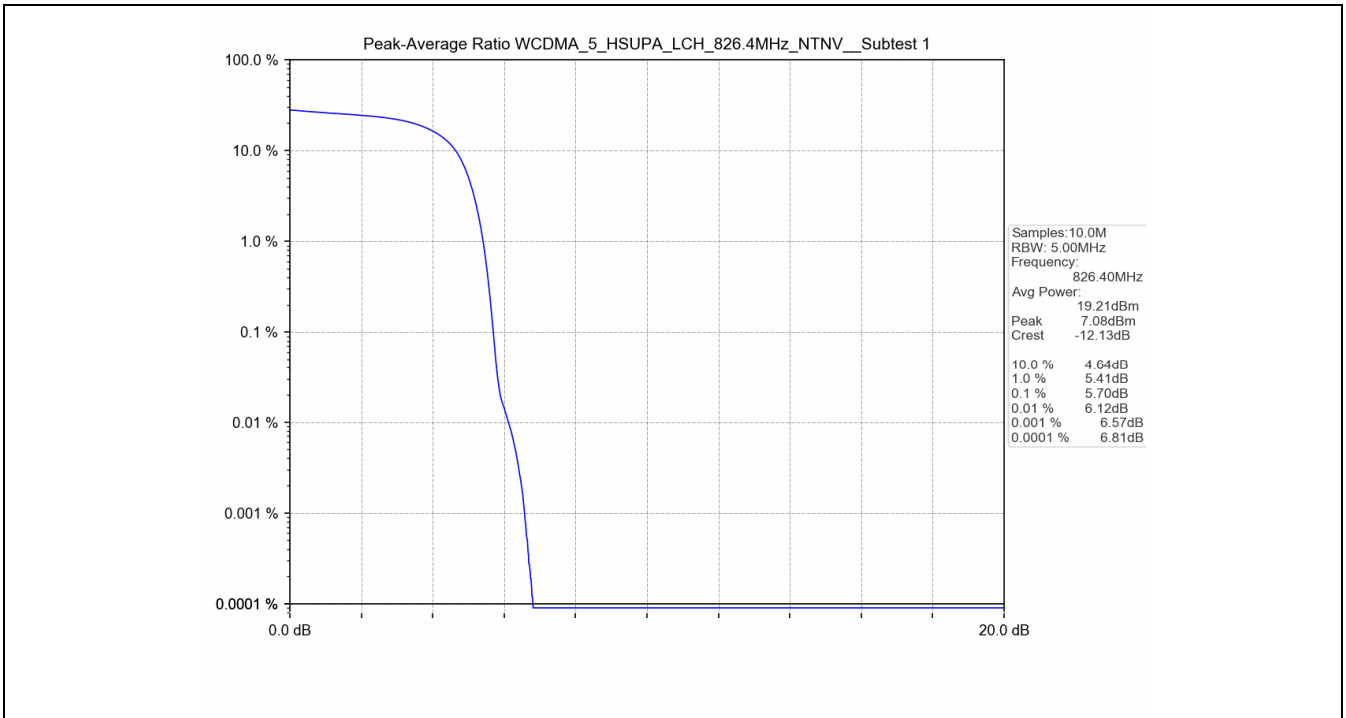


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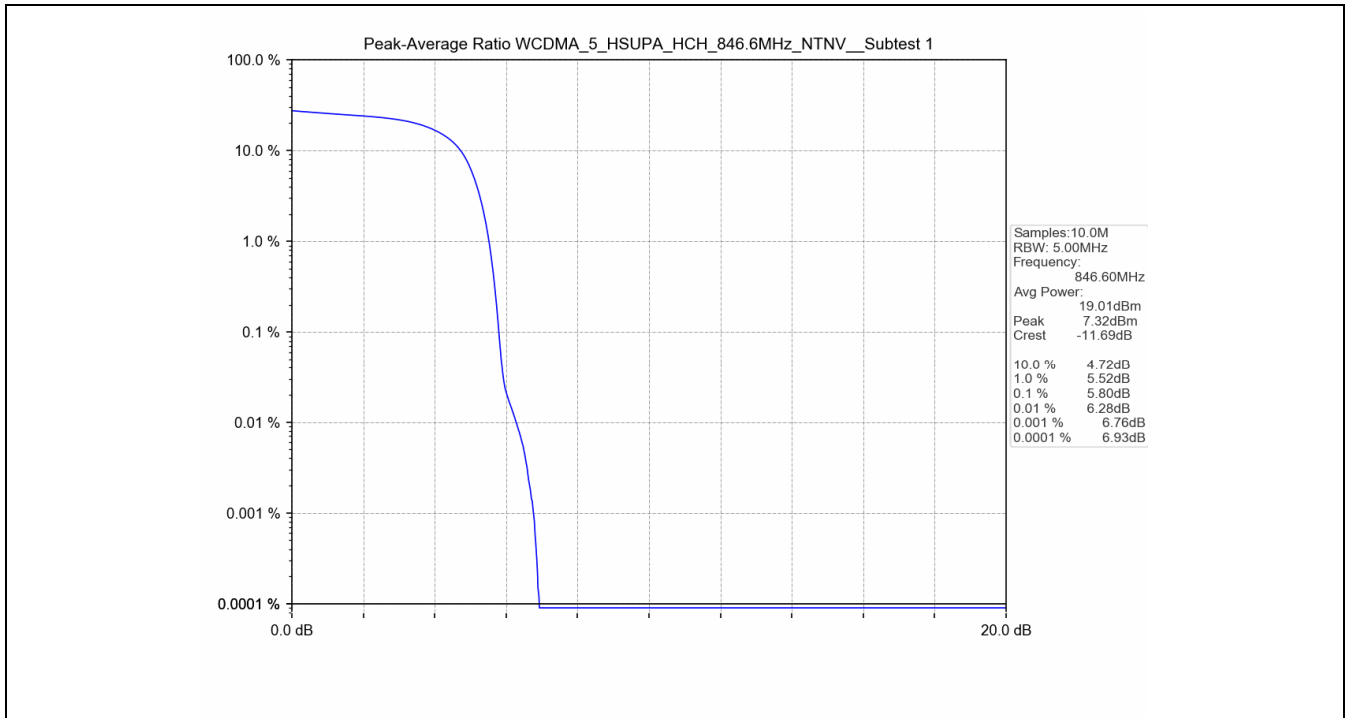


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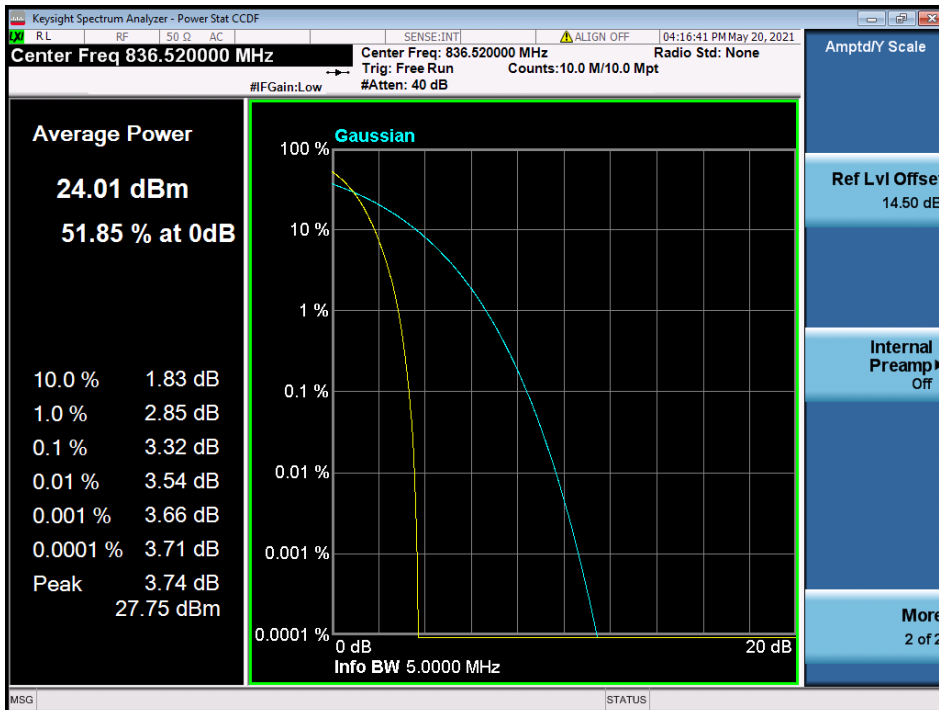
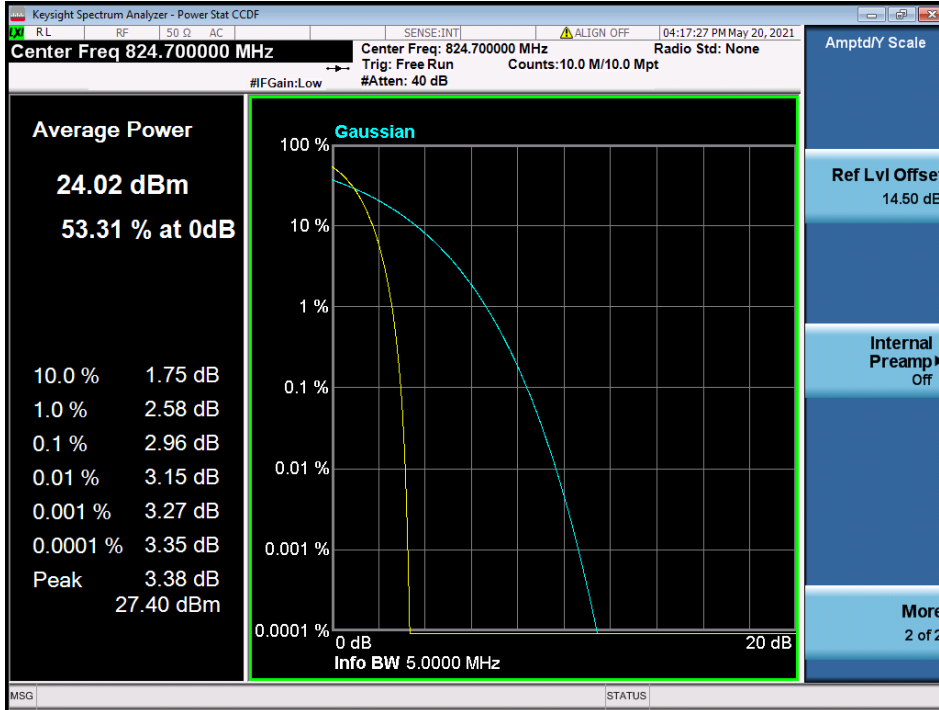


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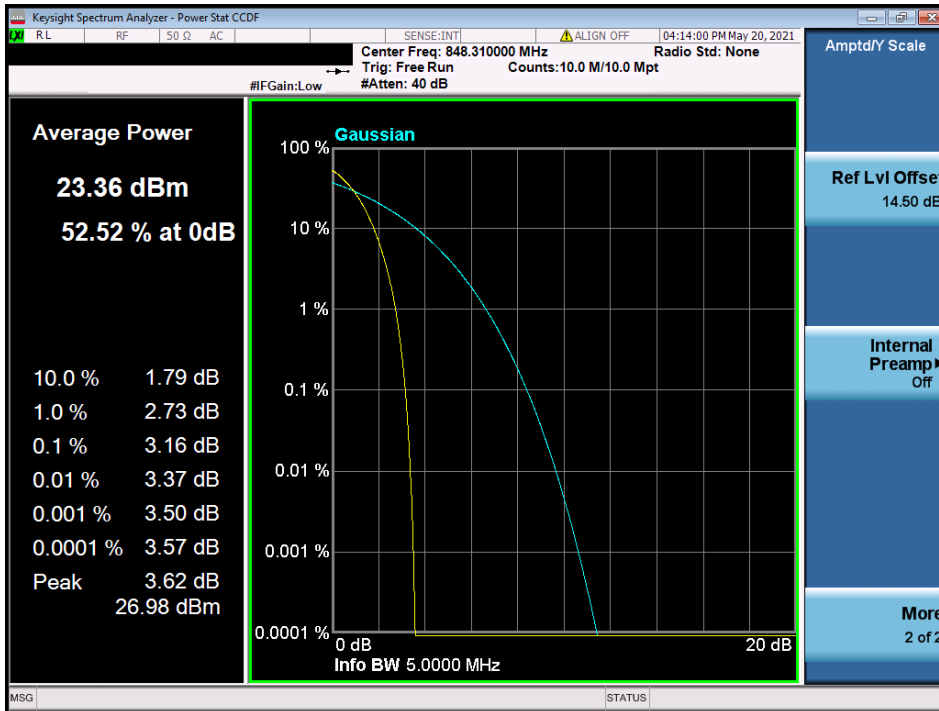


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CDMA BC0



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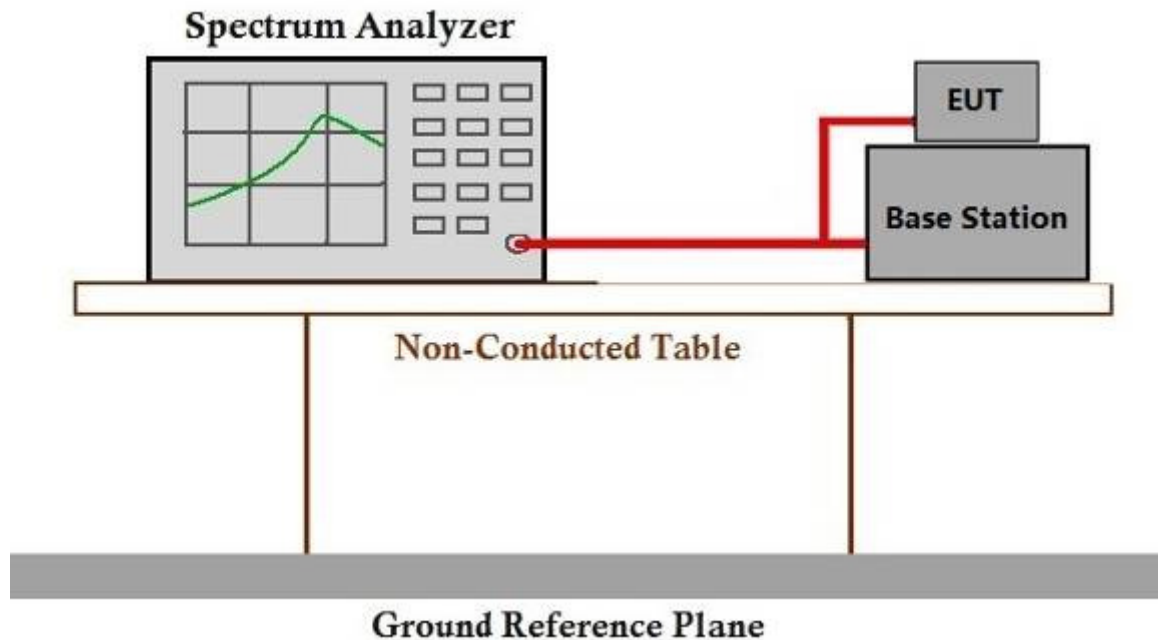
### 6.3 Bandwidth

Test Requirement: §2.1049(h)  
 Test Method: ANSI C63.26, KDB 971 168 D01 v03  
 Limit: OBW: No limit  
 EBW: No limit

#### 6.3.1 E.U.T. Operation

Operating Environment:  
 Temperature: 19.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar  
 Test mode: 20: TX mode\_Keep the EUT in transmitting mode

#### 6.3.2 Test Setup Diagram



#### 6.3.3 Measurement Data



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Test Band: WCDMA B2					
Test Mode	99% Occupied Bandwidth (MHz)			Limit (dB)	Verdict
	LCH	MCH	HCH		
HSUPA	4.269	4.235	4.189	N/A	PASS
HSDPA	4.257	4.240	4.188	N/A	PASS
RMC	4.140	4.137	4.159	N/A	PASS
Test Mode	26dB Bandwidth (MHz)			Limit (dB)	Verdict
	LCH	MCH	HCH		
HSUPA	6.100	6.261	5.941	N/A	PASS
HSDPA	6.632	6.280	5.434	N/A	PASS
RMC	4.791	4.743	4.786	N/A	PASS

Test Band: WCDMA B5					
Test Mode	99% Occupied Bandwidth (MHz)			Limit (dB)	Verdict
	LCH	MCH	HCH		
HSUPA	4.222	4.298	4.269	N/A	PASS
HSDPA	4.309	4.301	4.272	N/A	PASS
RMC	4.146	4.143	4.144	N/A	PASS
Test Mode	26dB Bandwidth (MHz)			Limit (dB)	Verdict
	LCH	MCH	HCH		
HSUPA	6.397	6.397	6.221	N/A	PASS
HSDPA	6.600	6.877	6.673	N/A	PASS
RMC	4.747	4.737	4.748	N/A	PASS

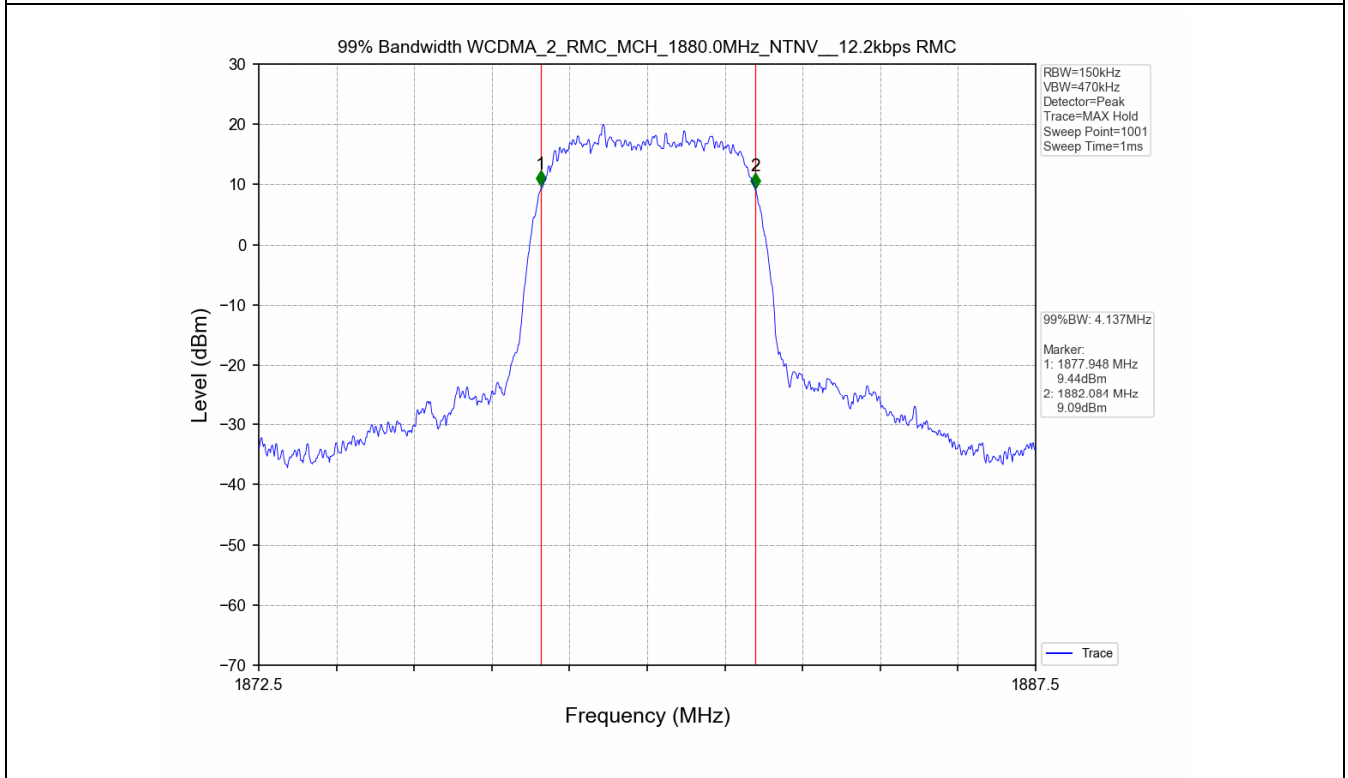
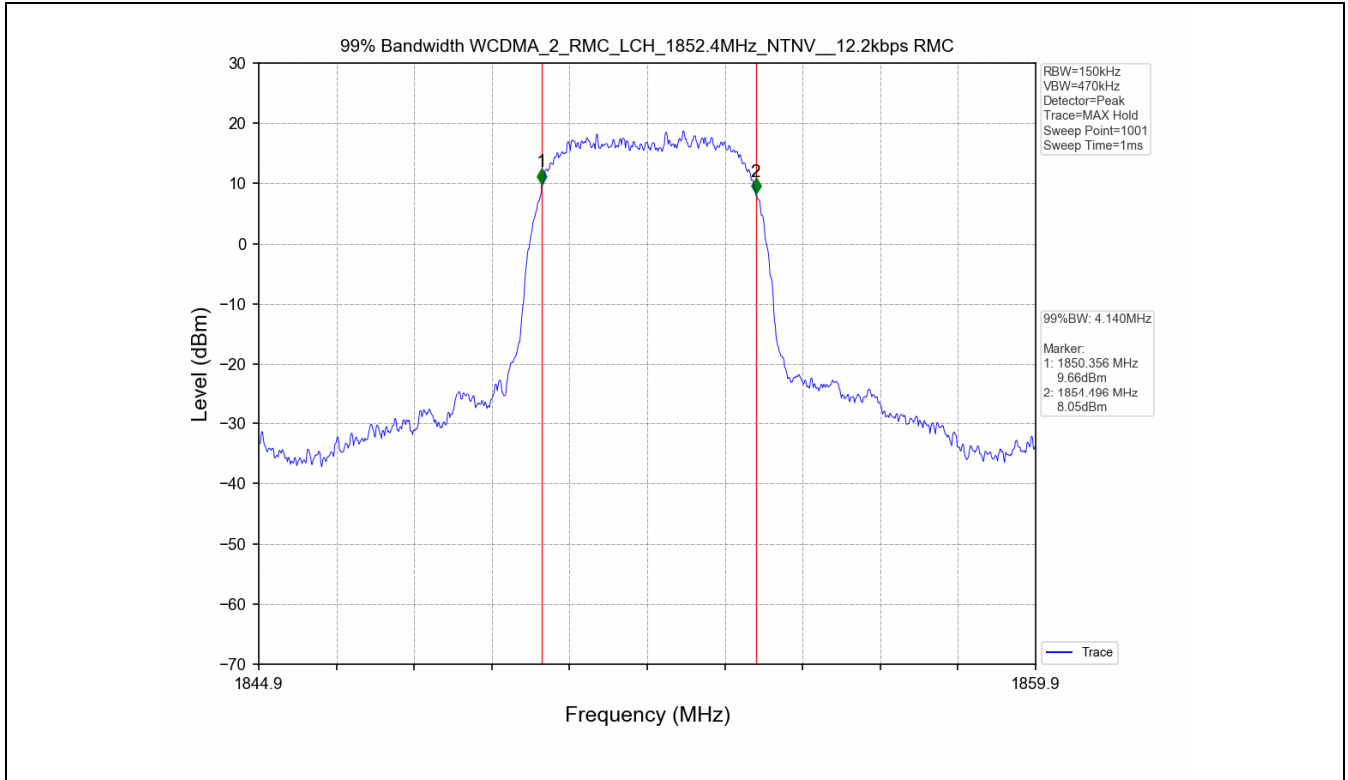
Test Band: CDMA BC0					
Test Mode	99% Occupied Bandwidth (MHz)			Limit (dB)	Verdict
	LCH	MCH	HCH		
SO2	1.272	1.272	1.274	N/A	PASS
Test Mode	26dB Bandwidth (MHz)			Limit (dB)	Verdict
	LCH	MCH	HCH		
SO2	1.425	1.422	1.427	N/A	PASS



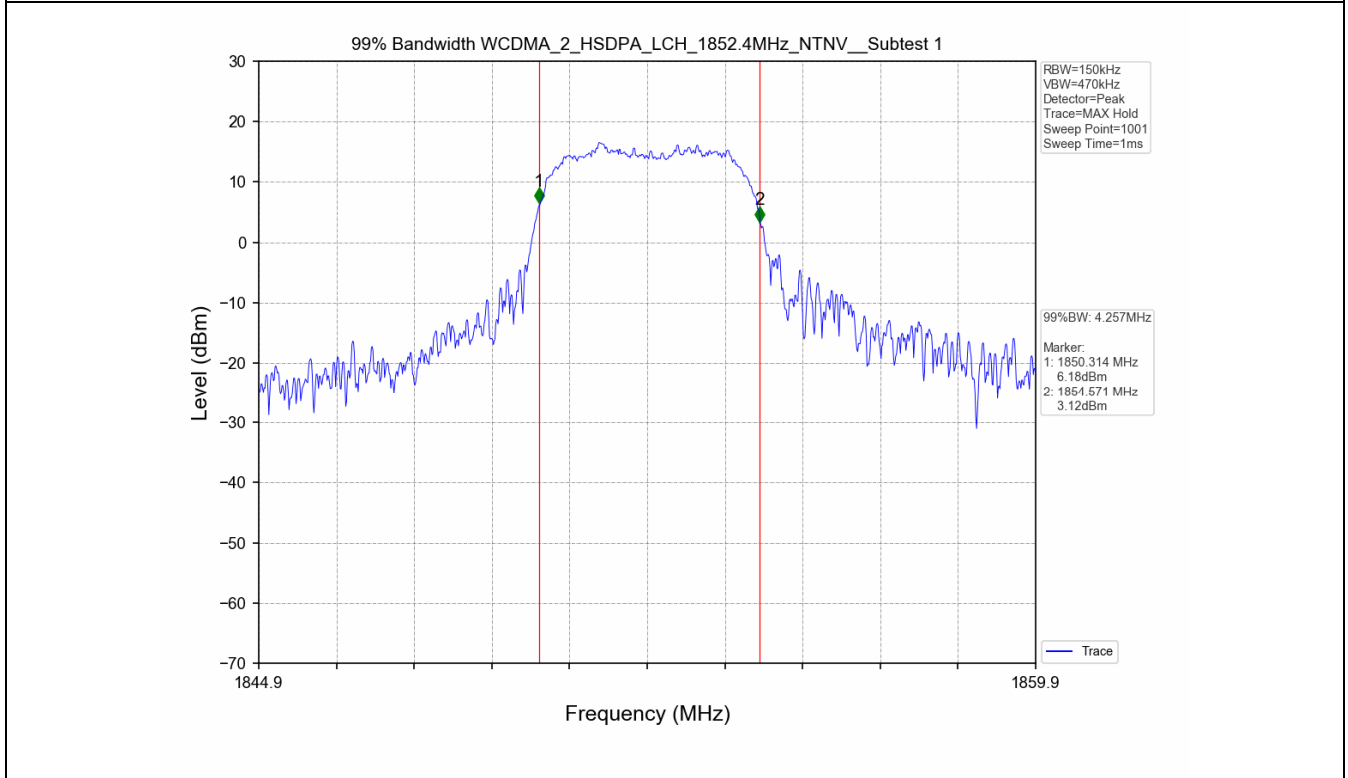
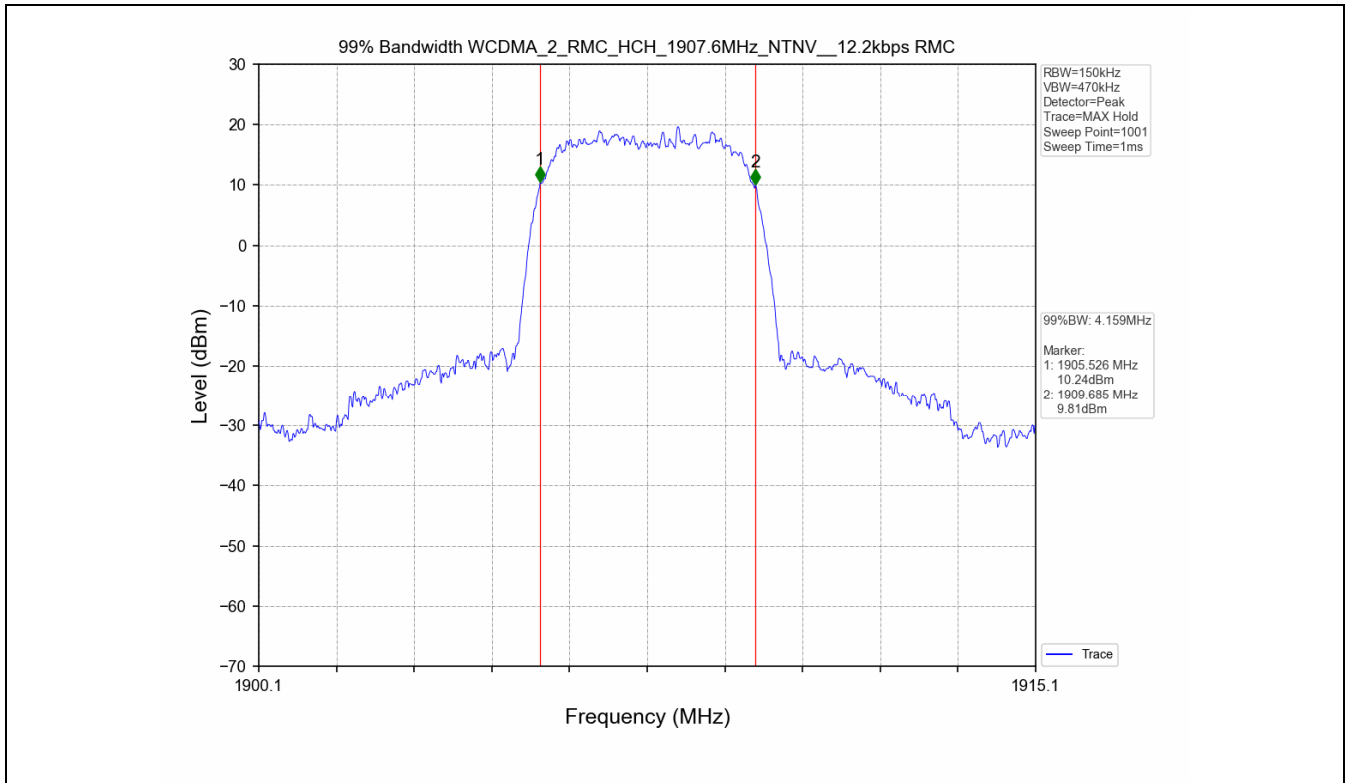
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WCDMA B2

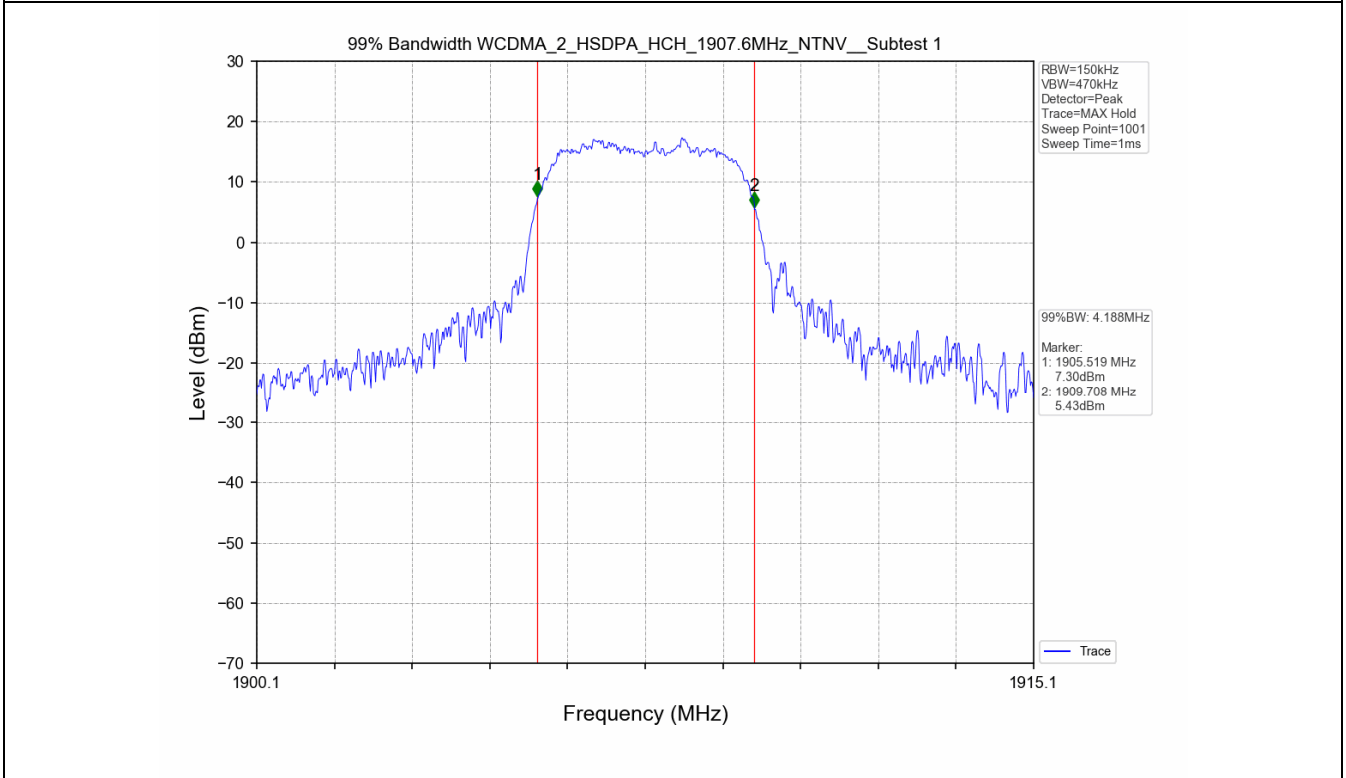
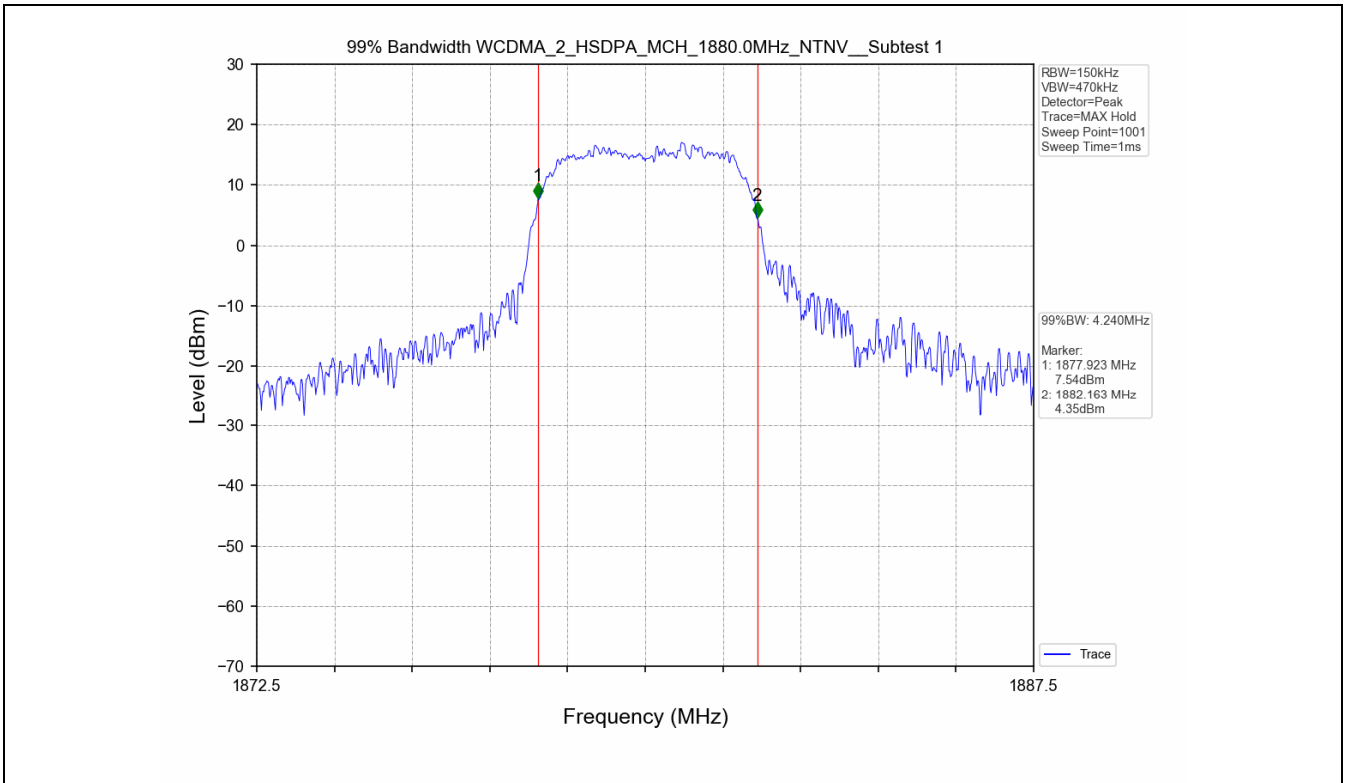


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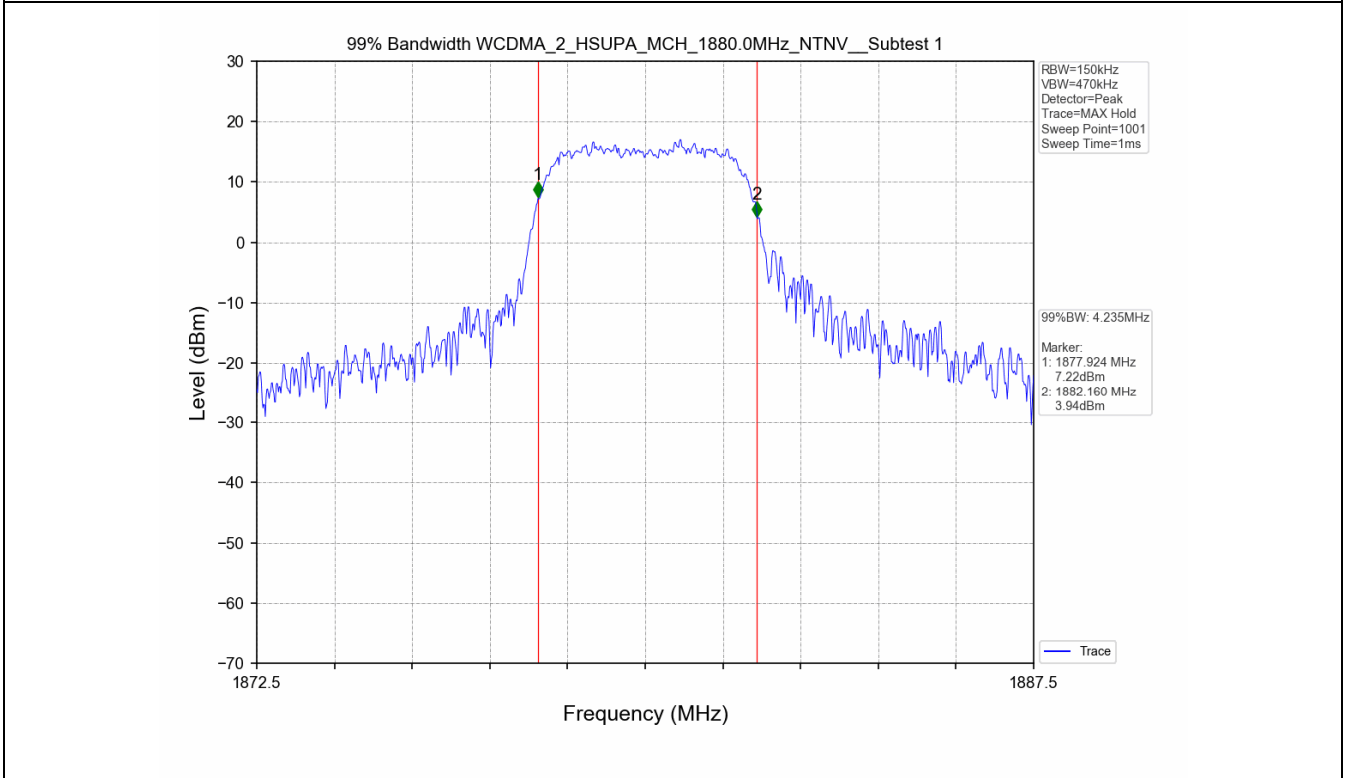
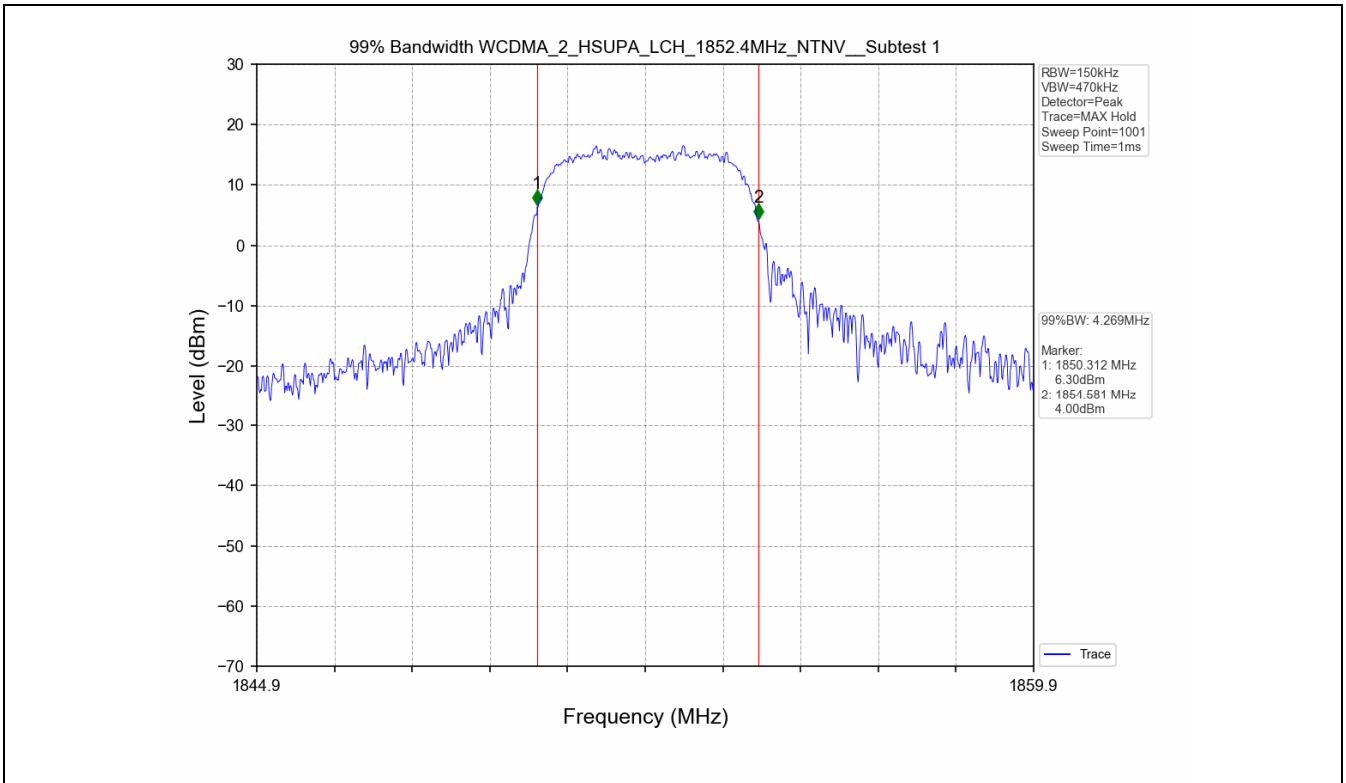


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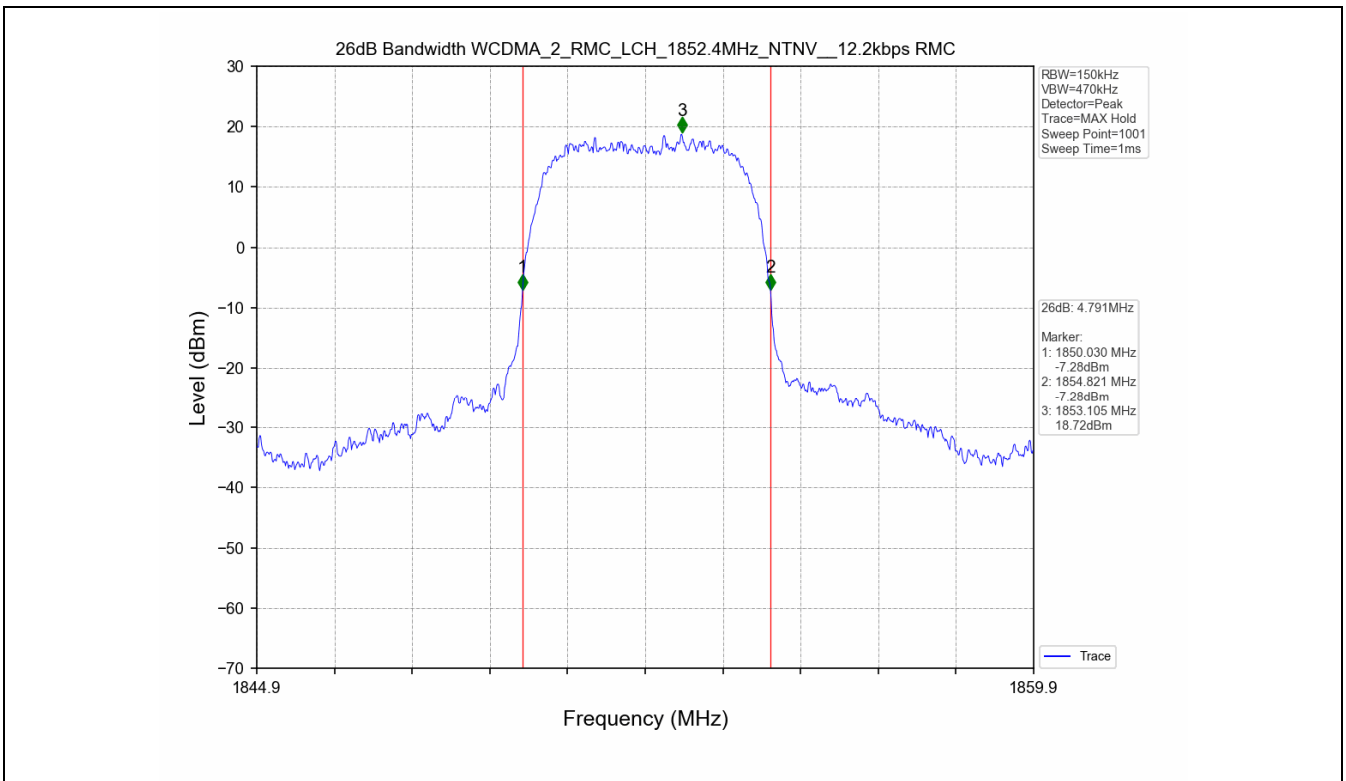
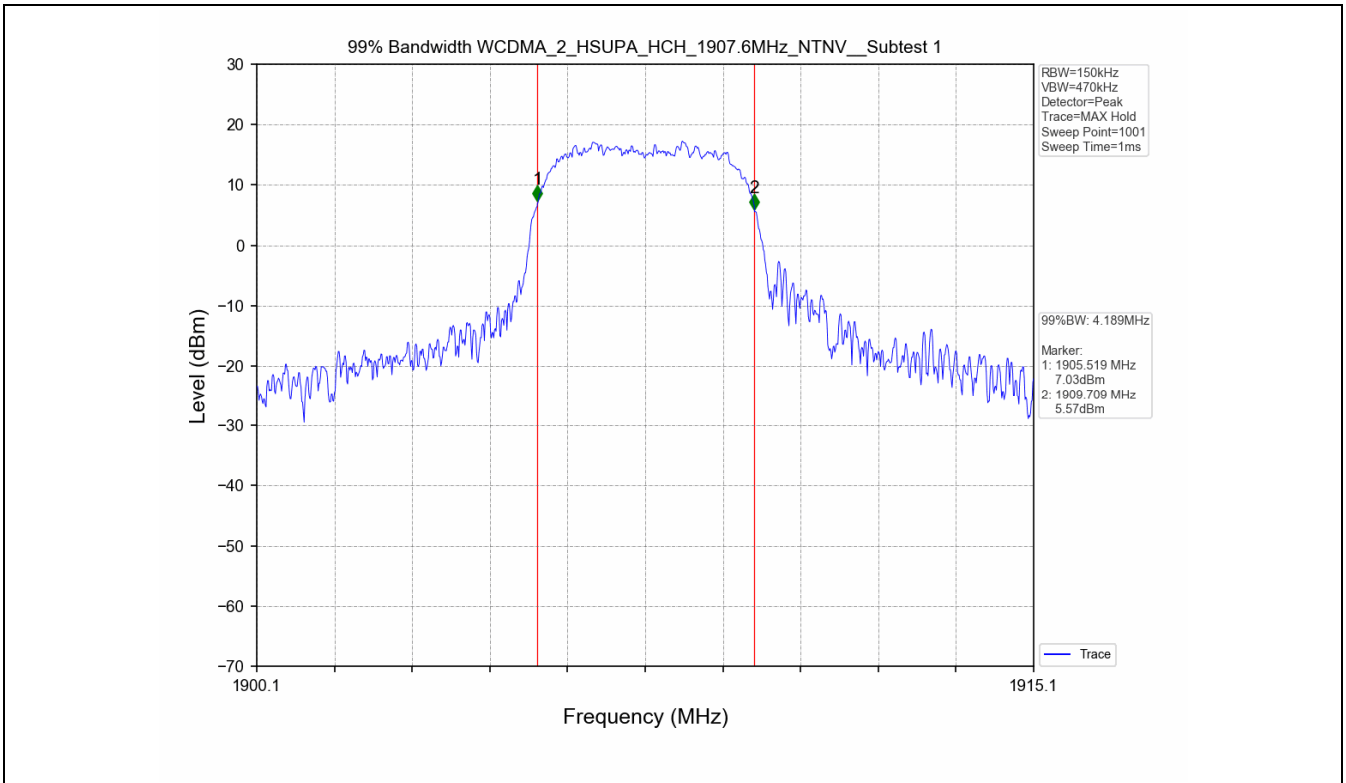




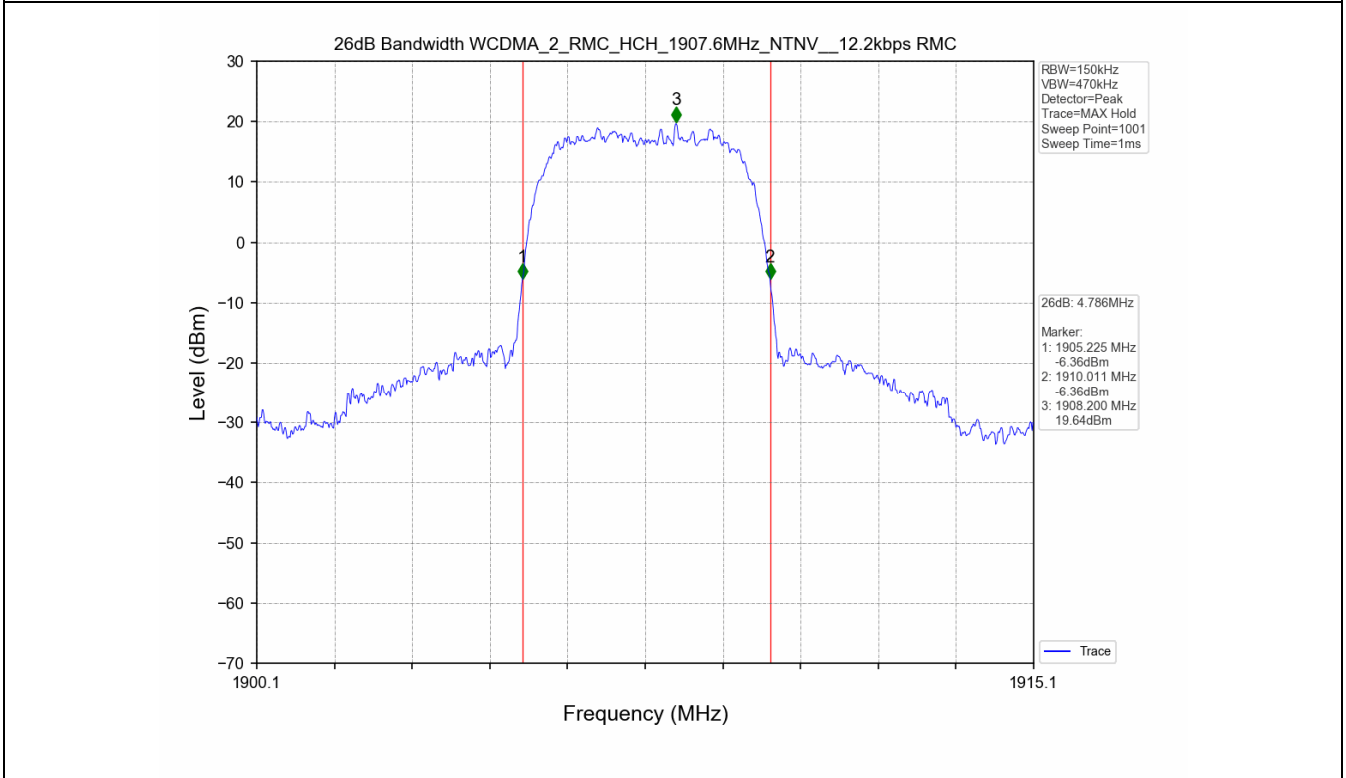
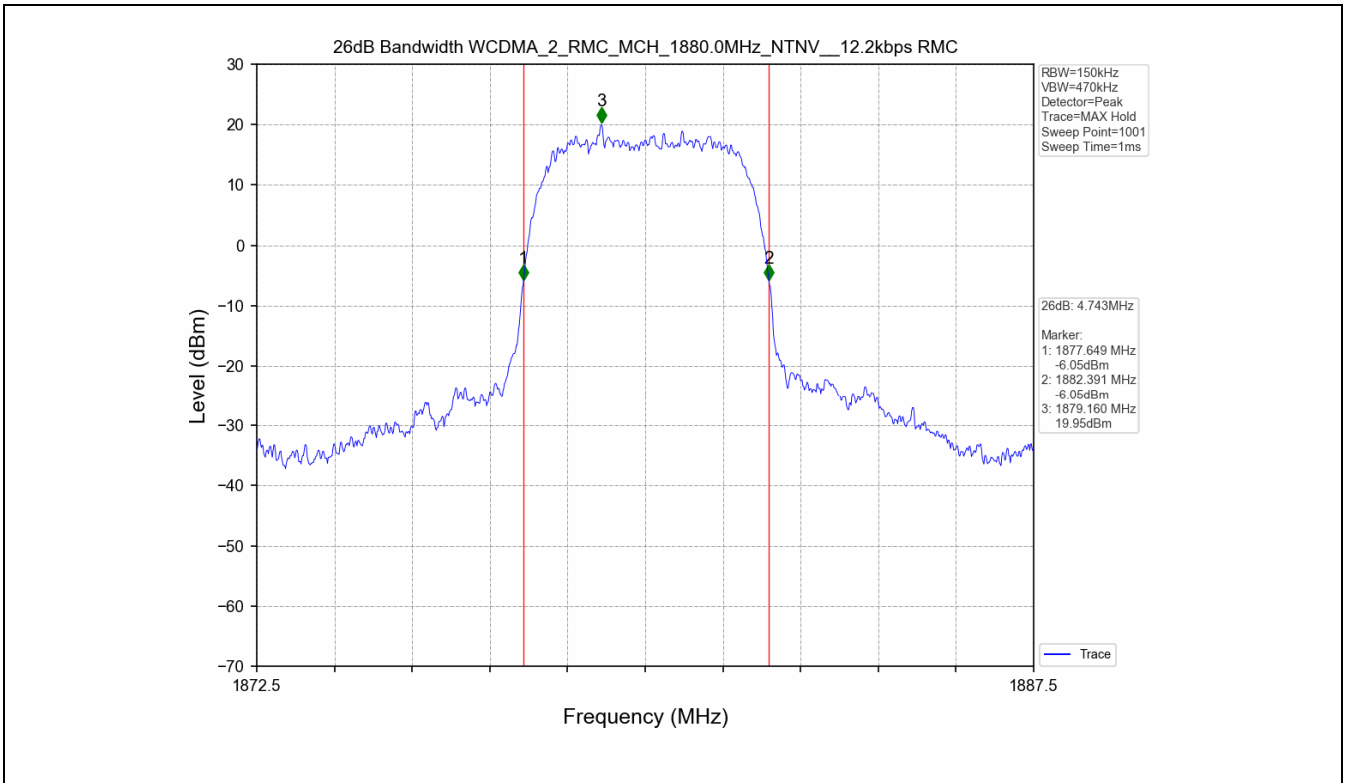
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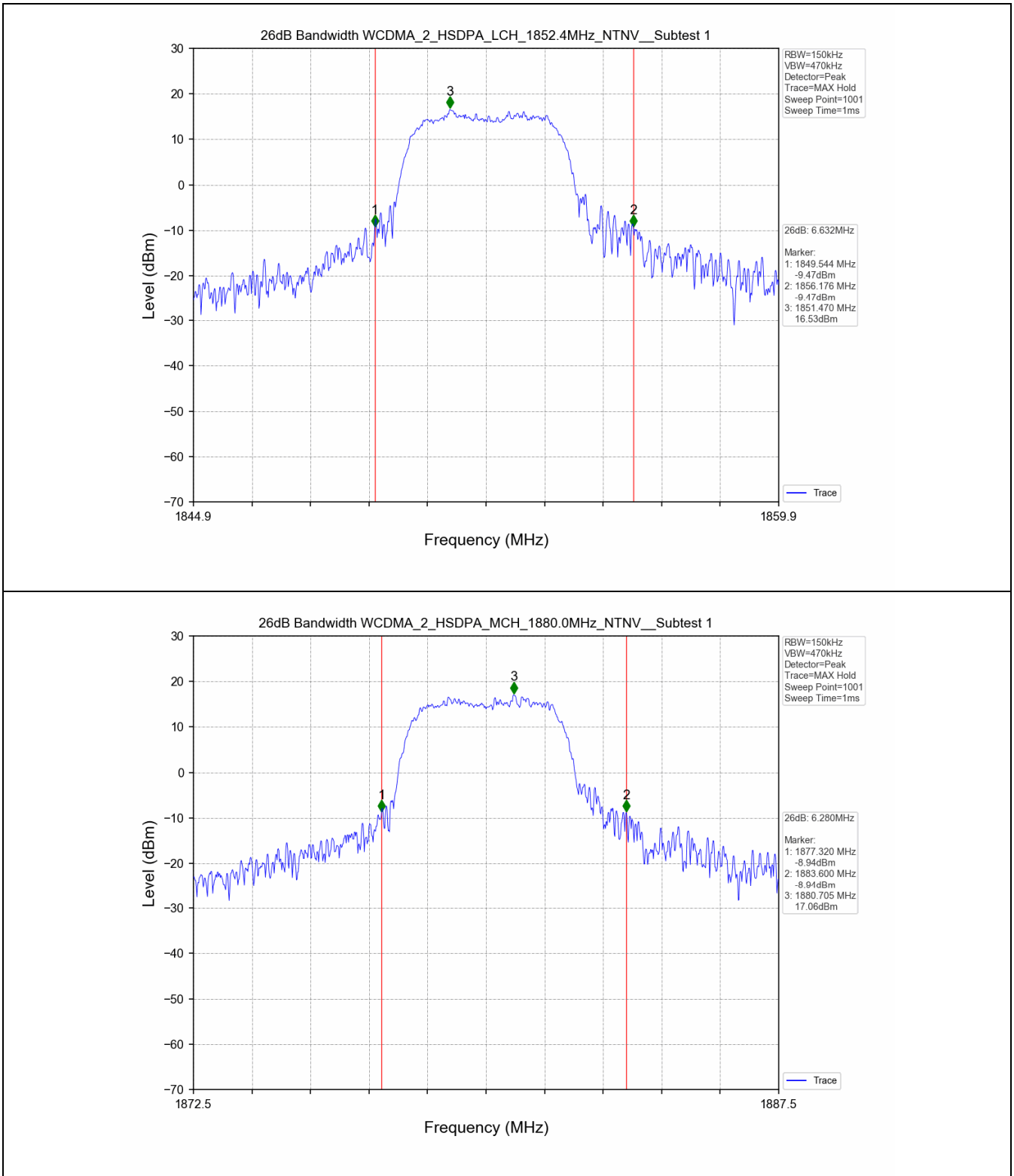
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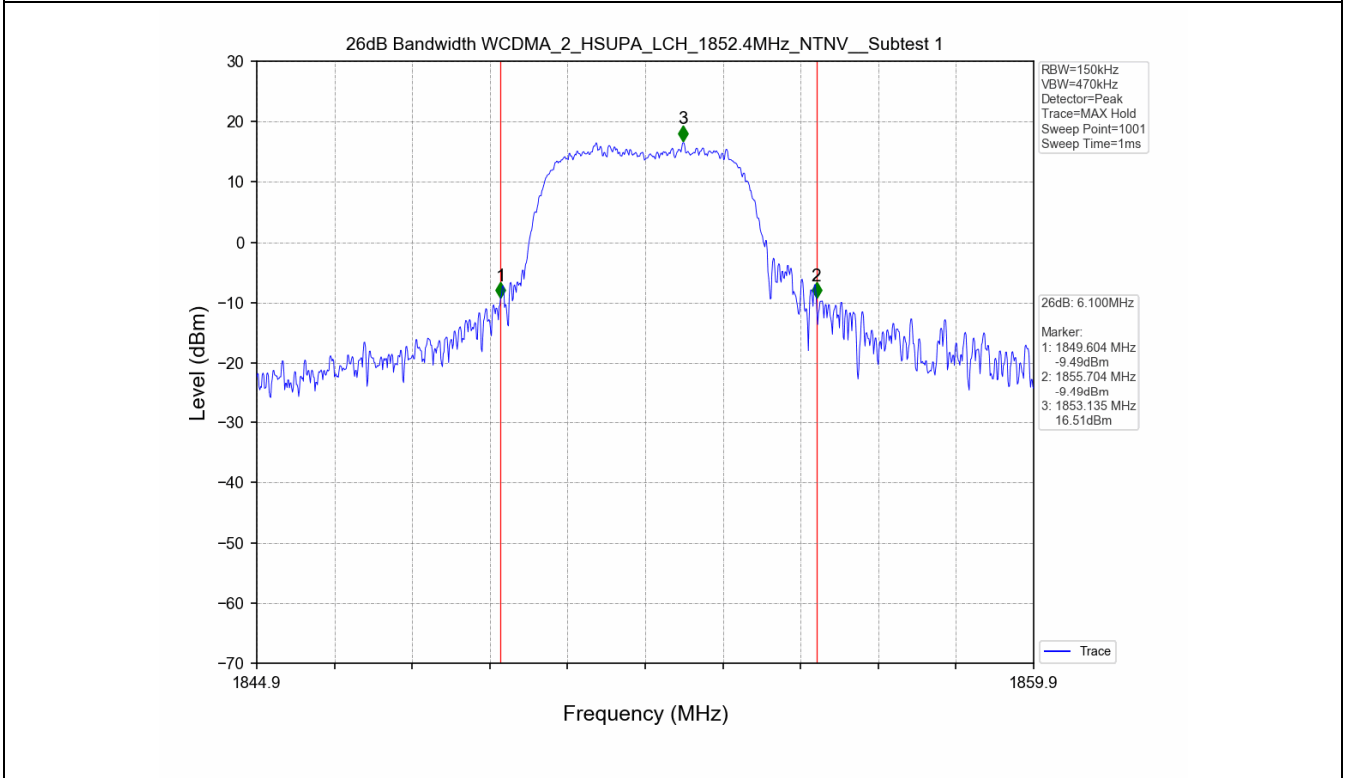
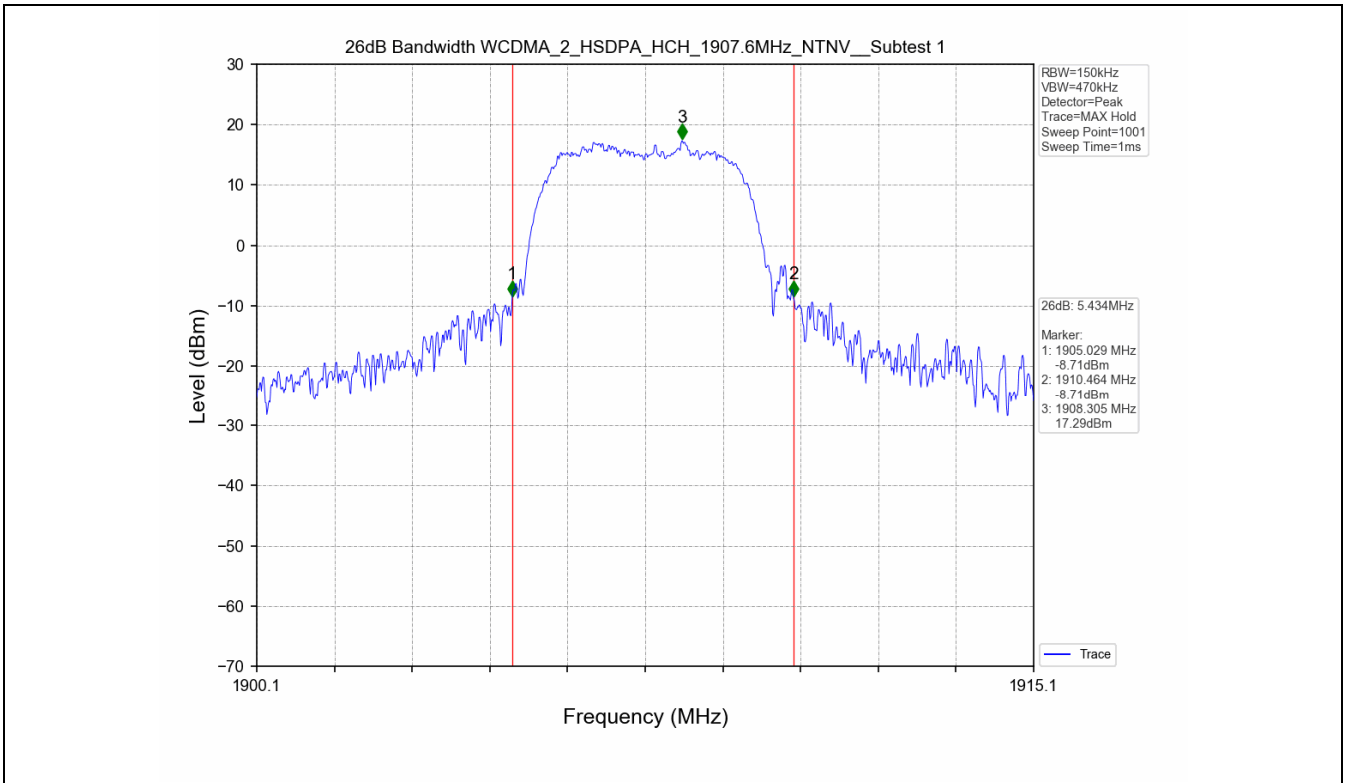
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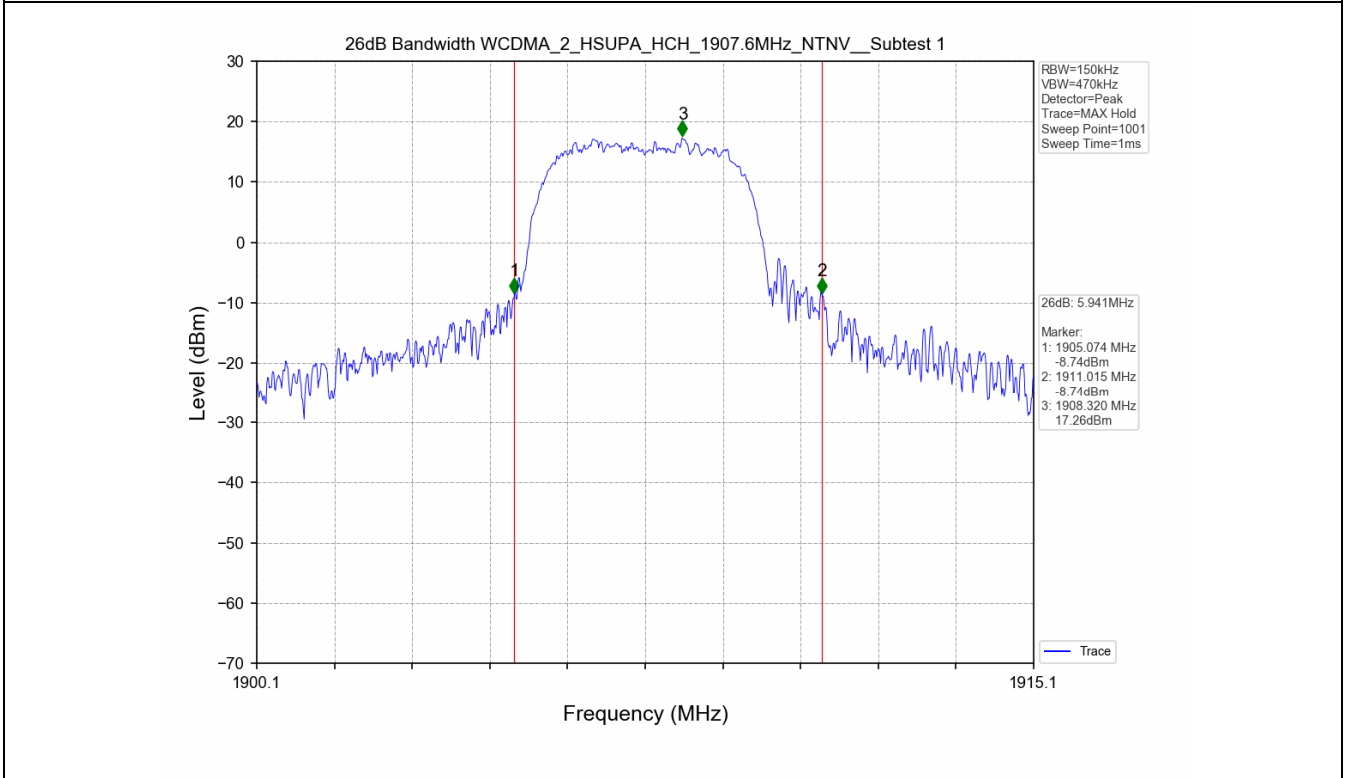
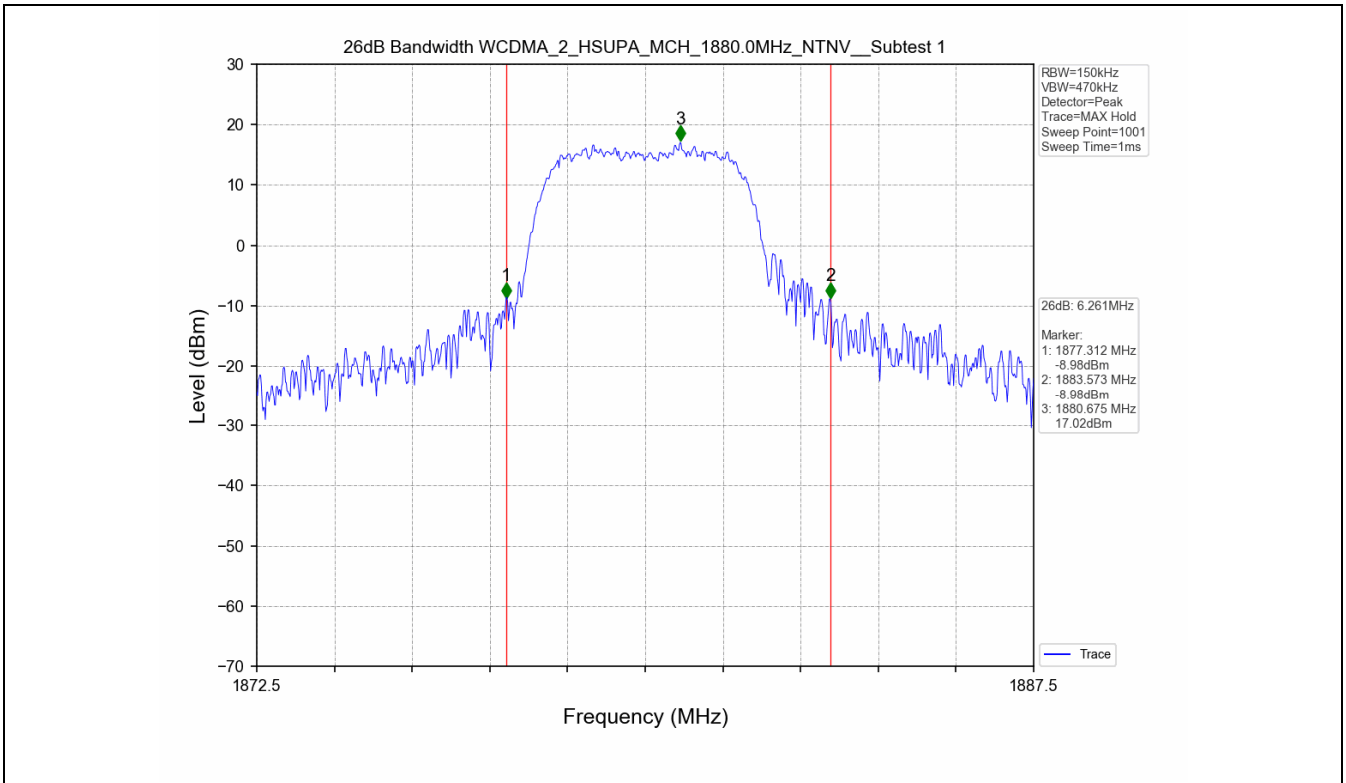
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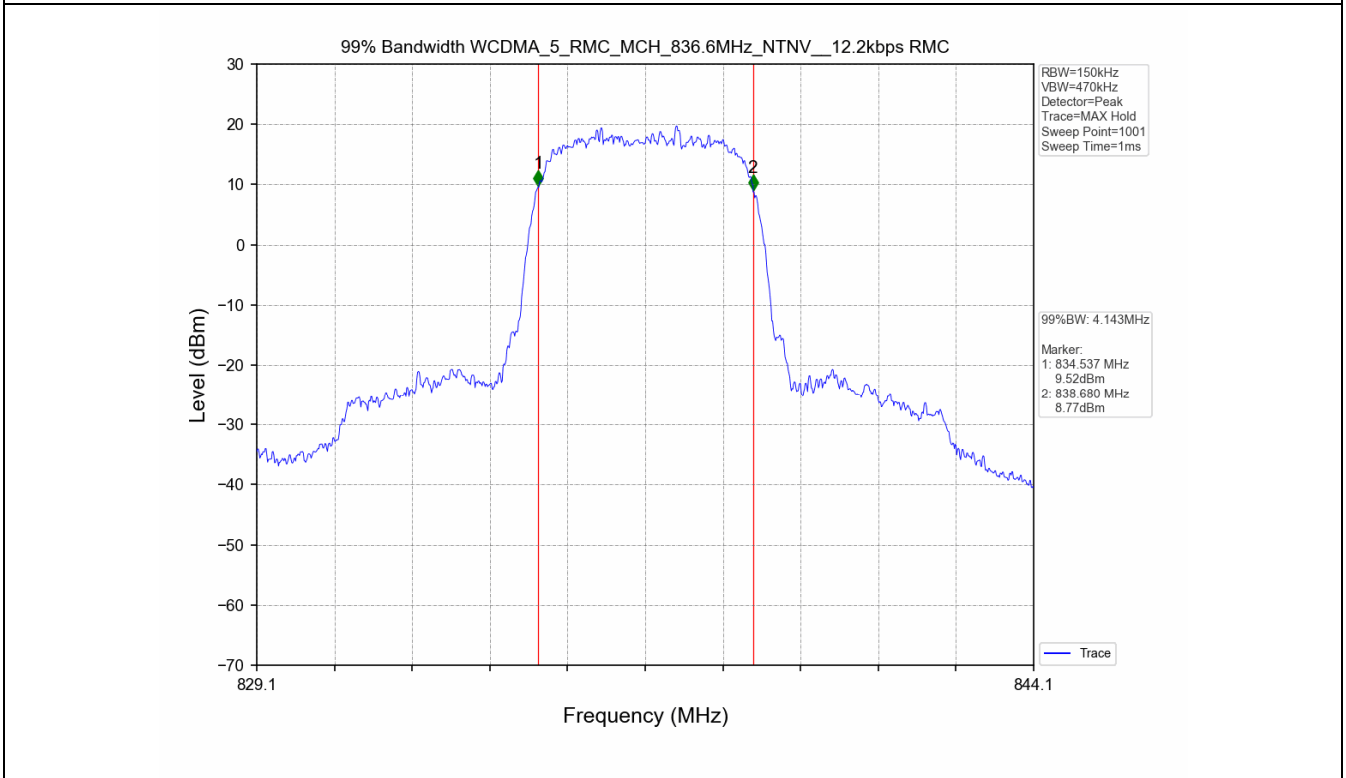
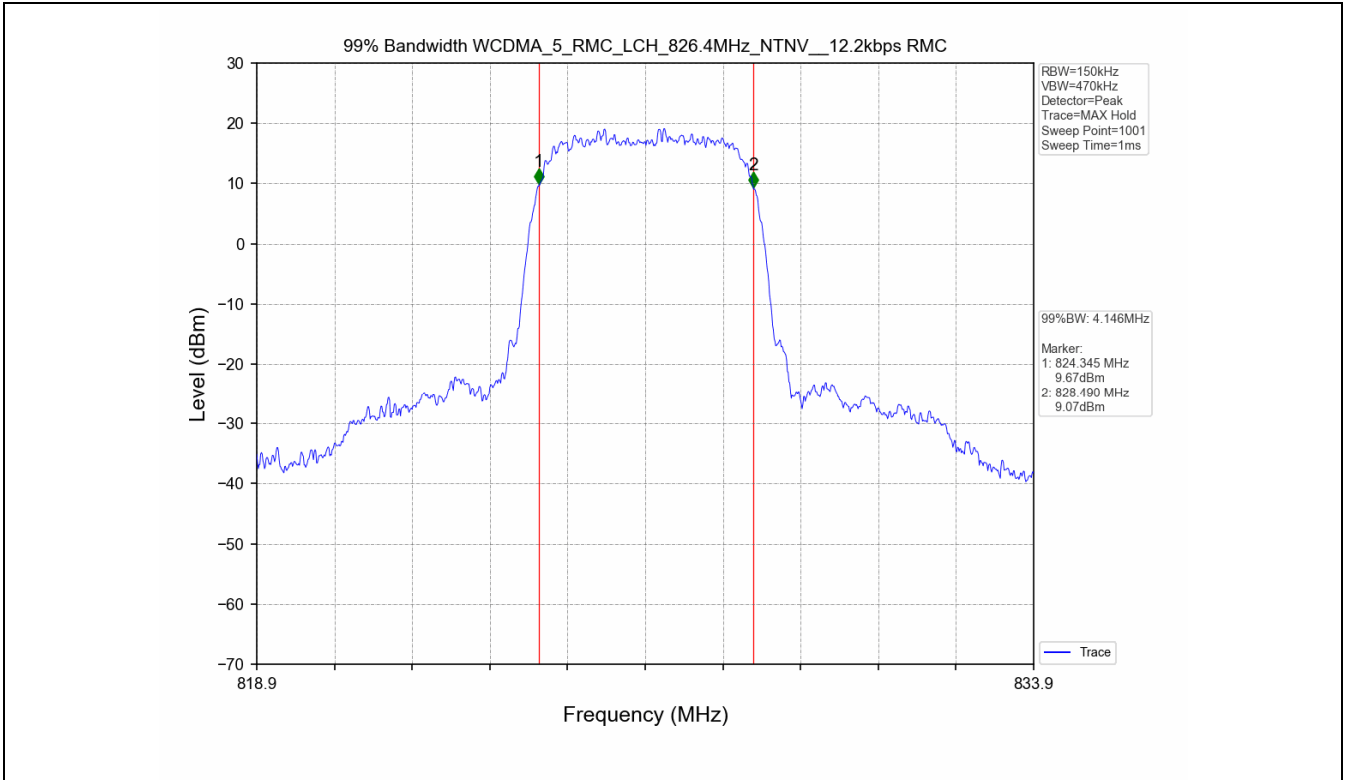


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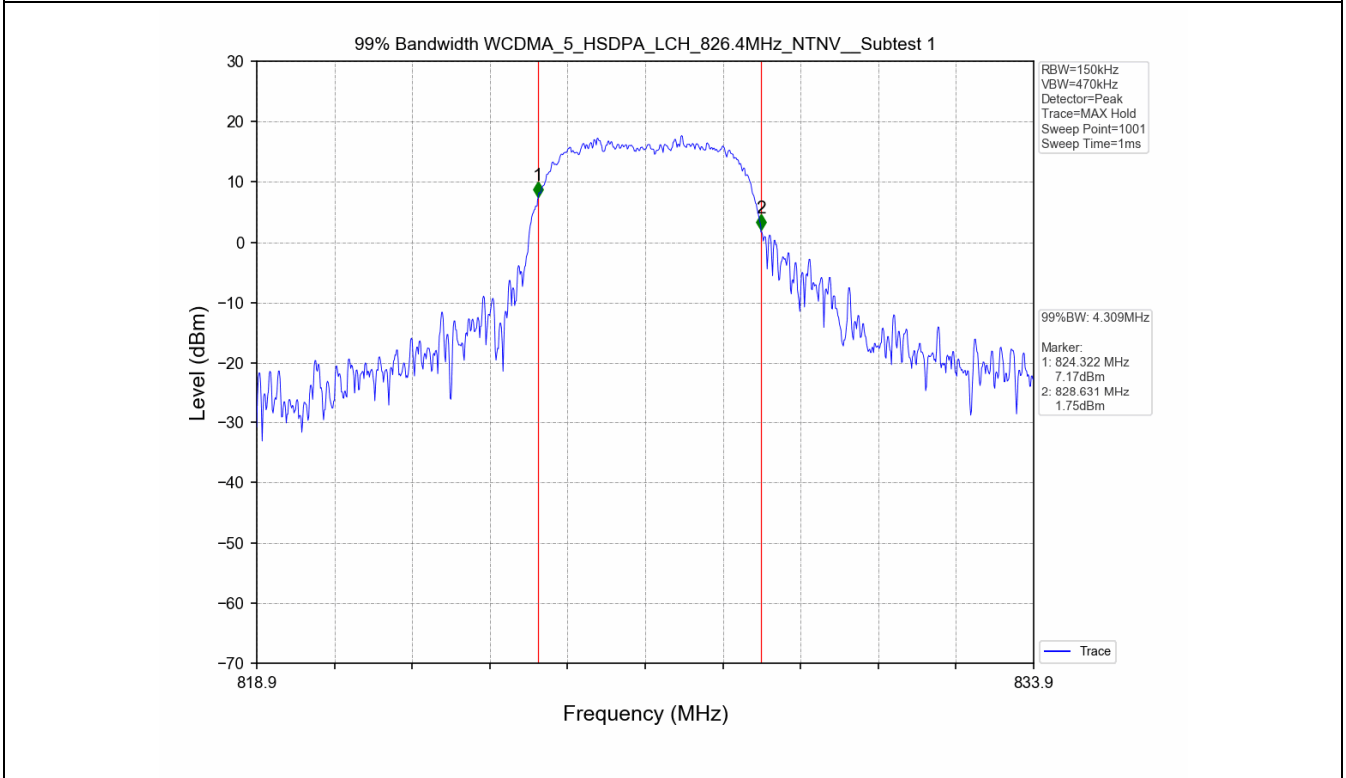
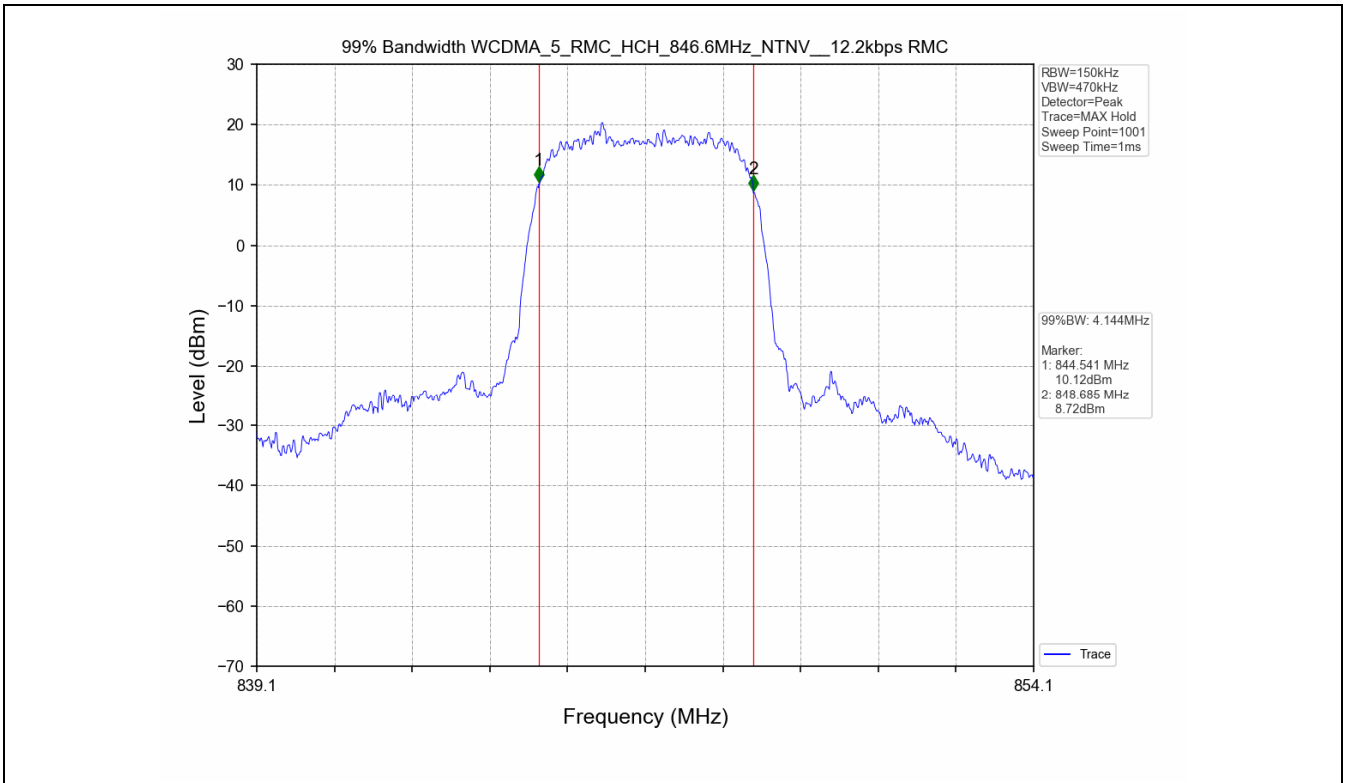
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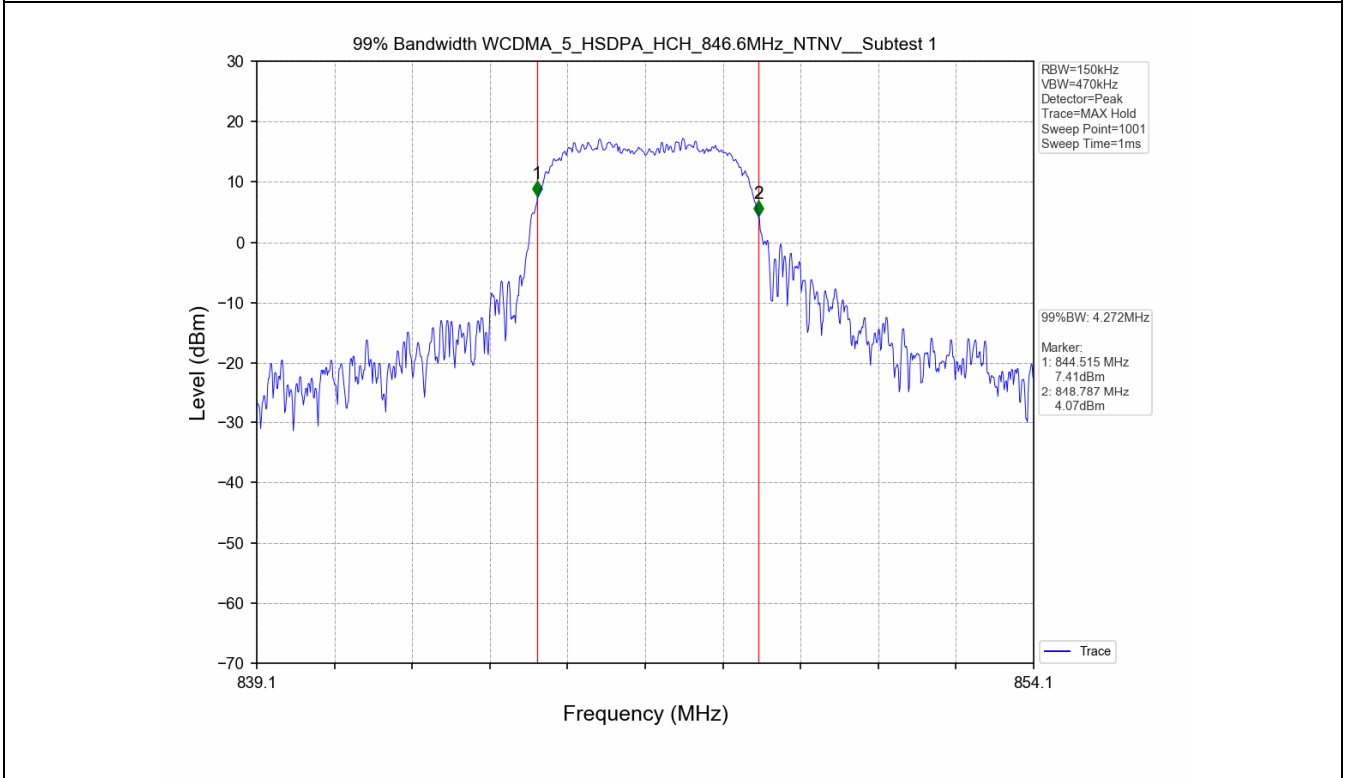
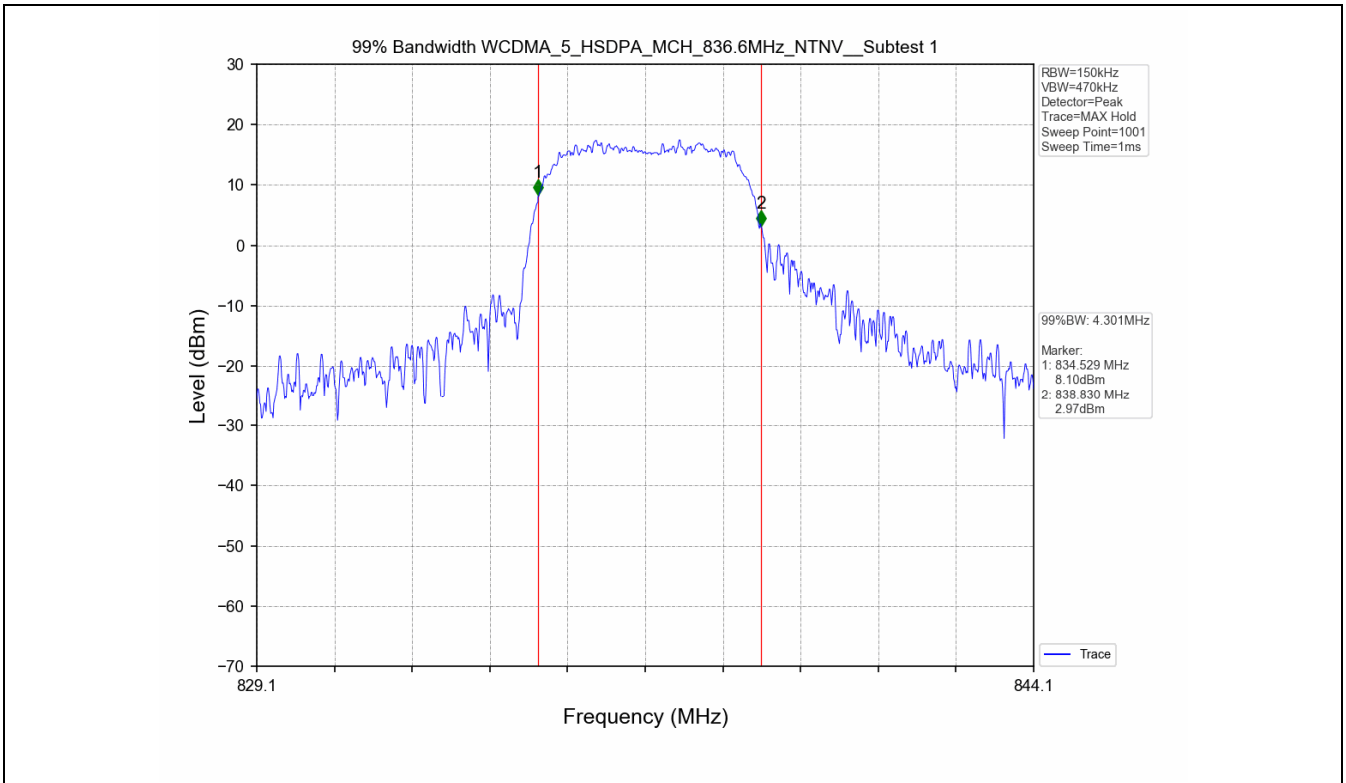


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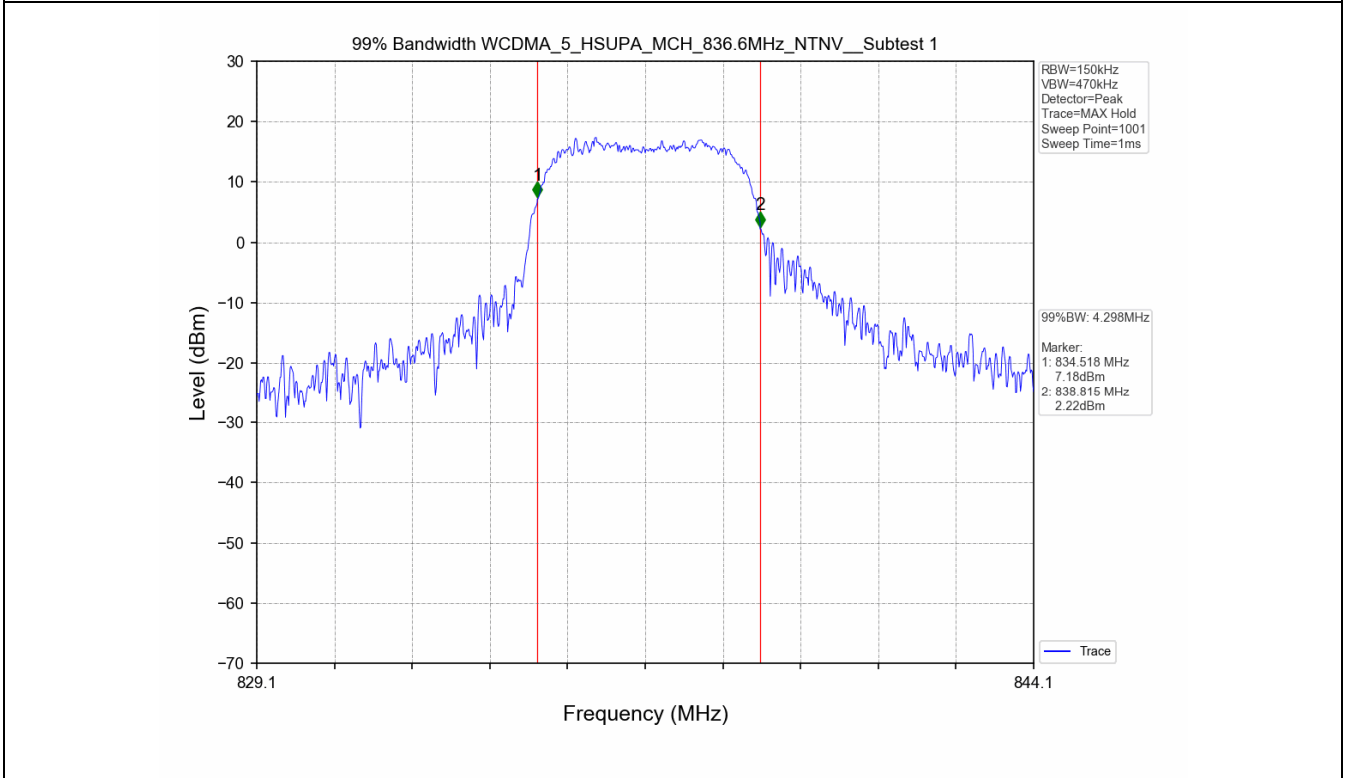
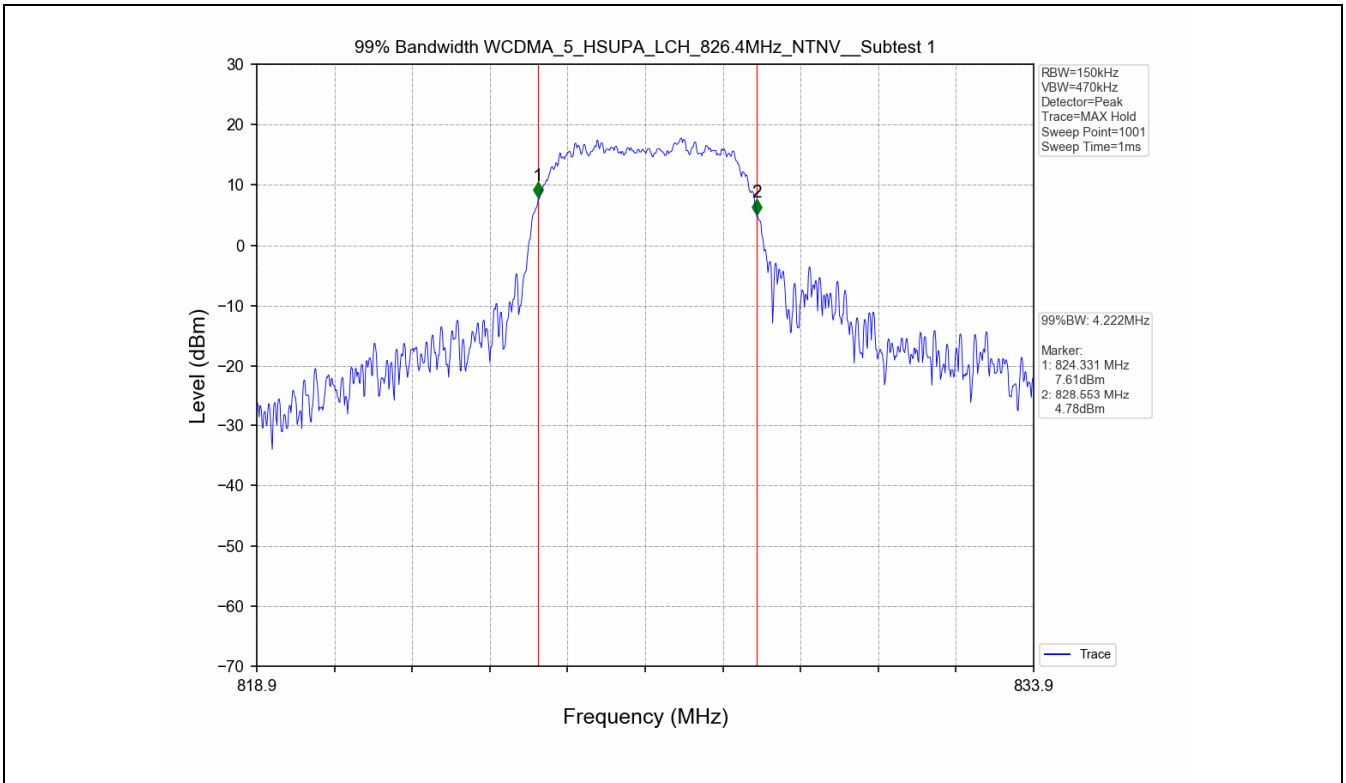




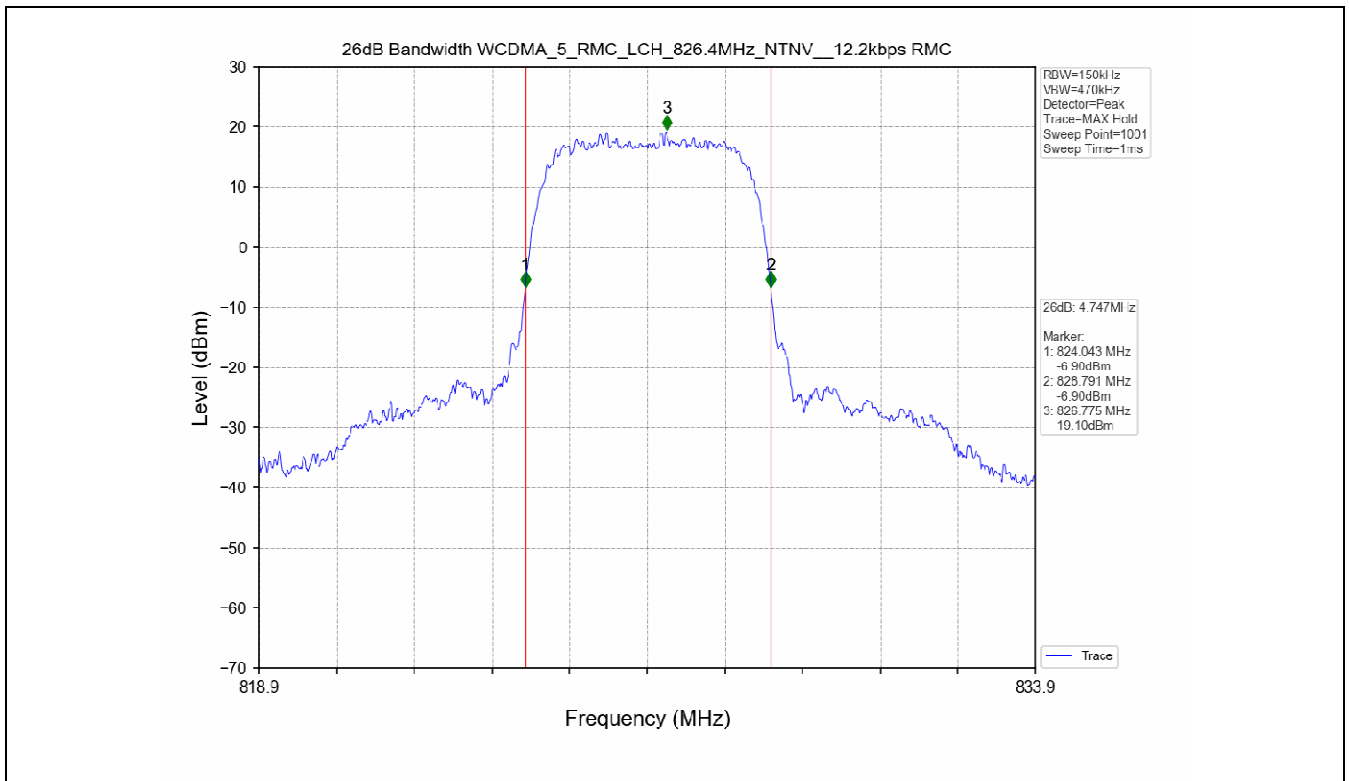
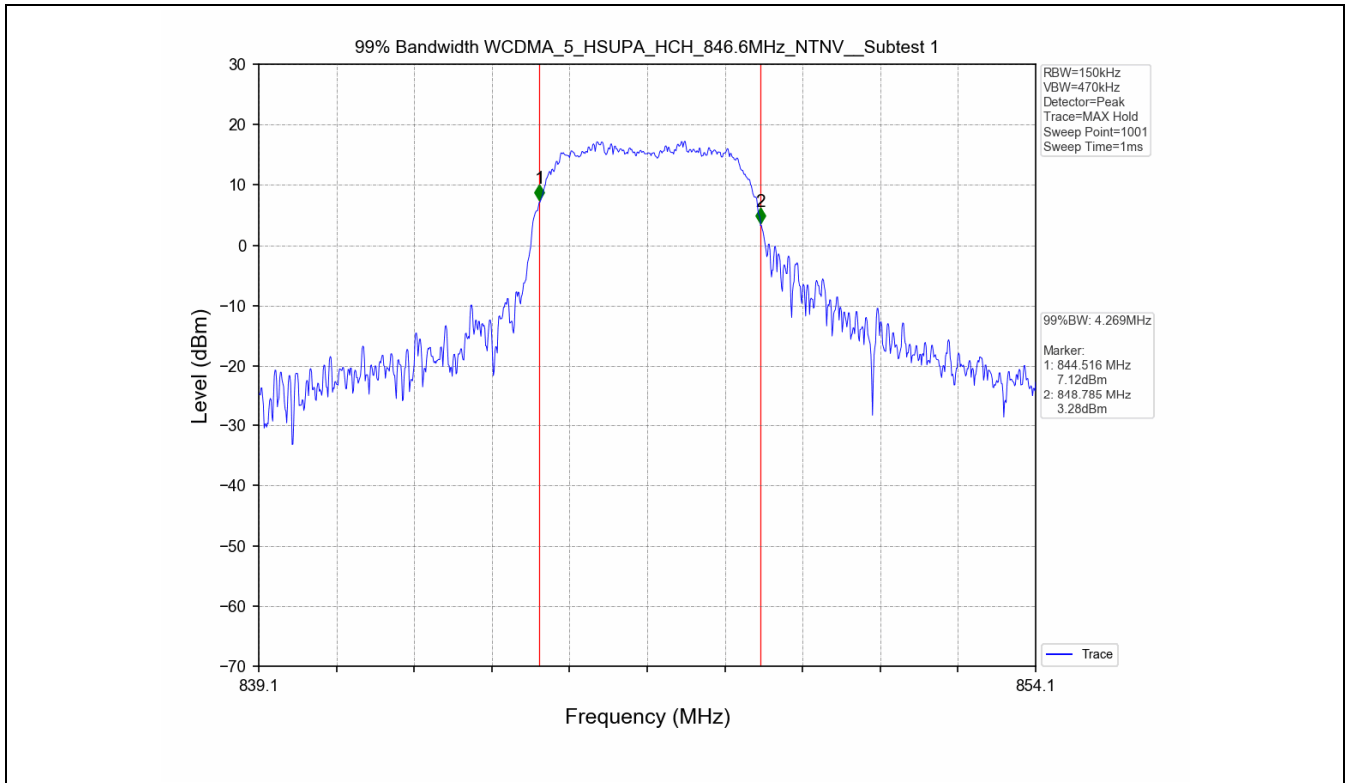
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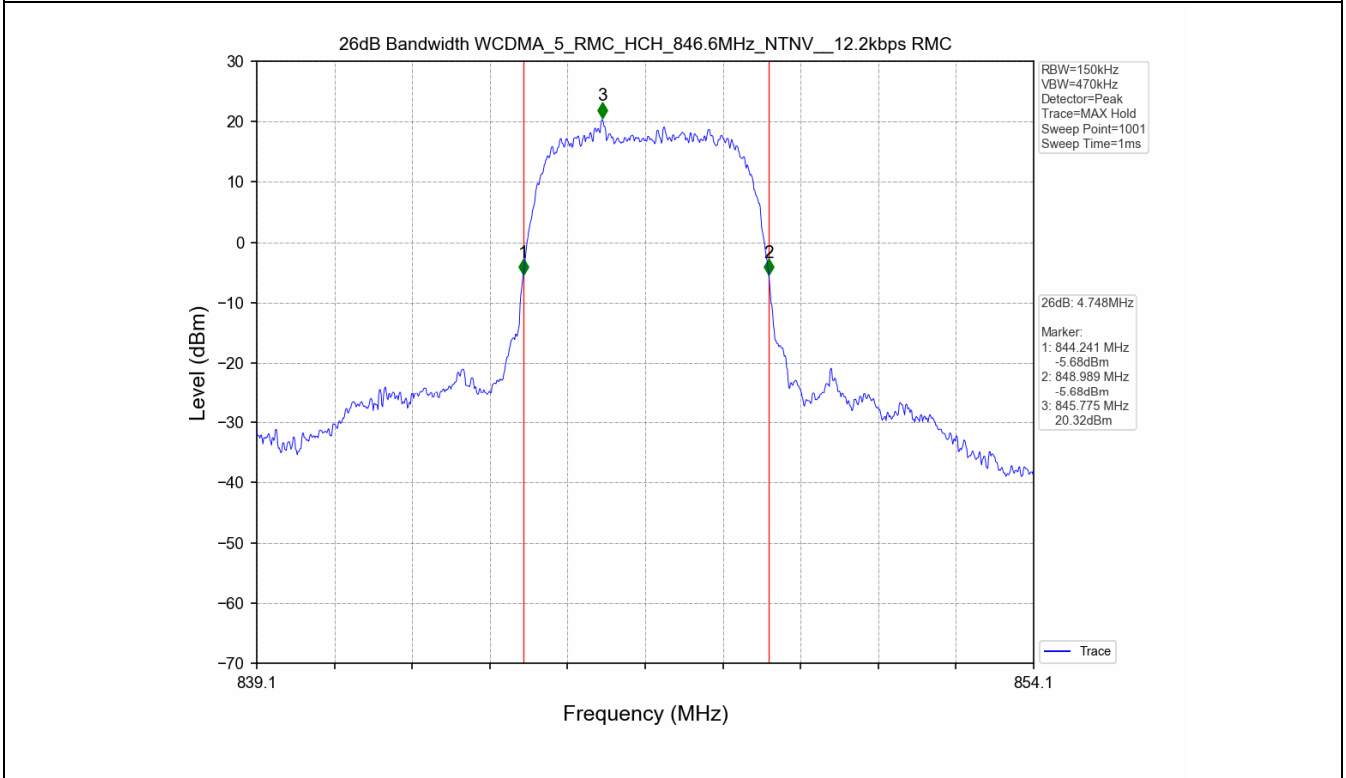
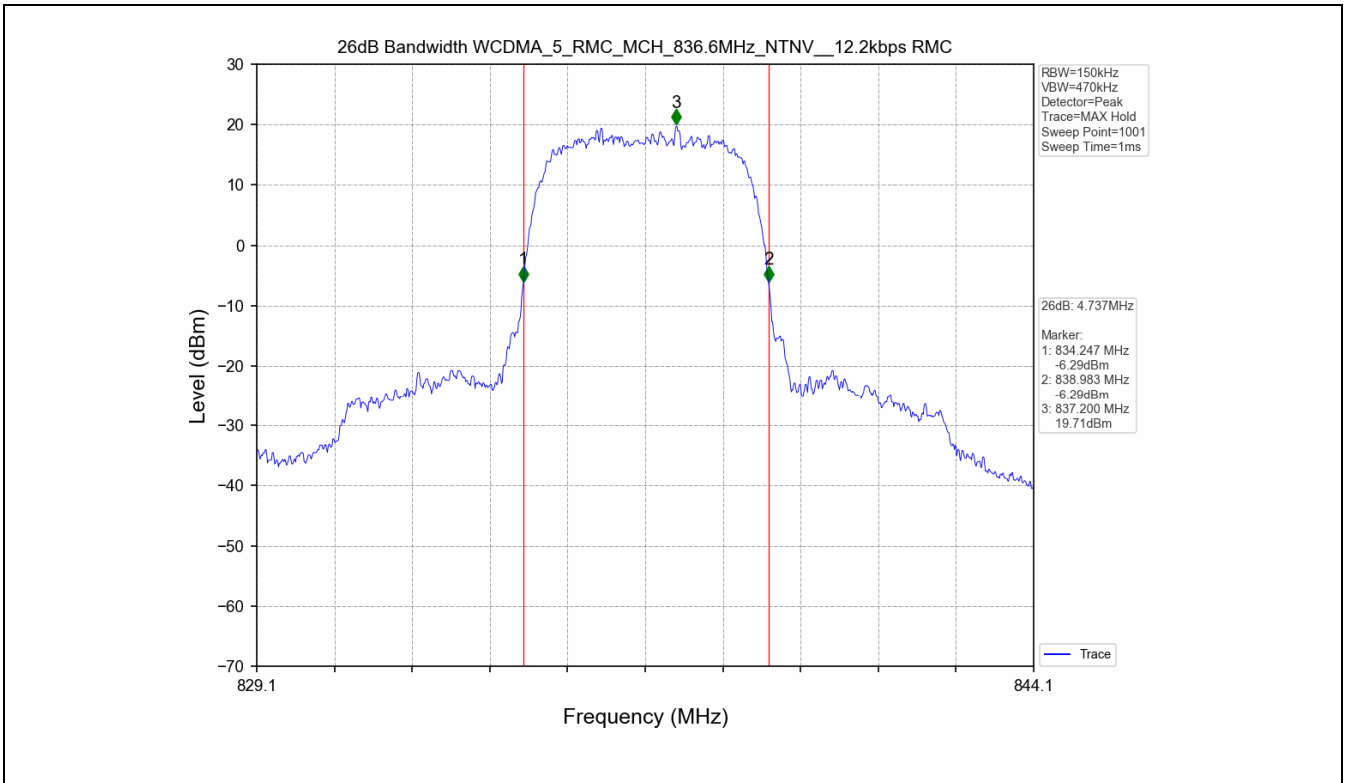
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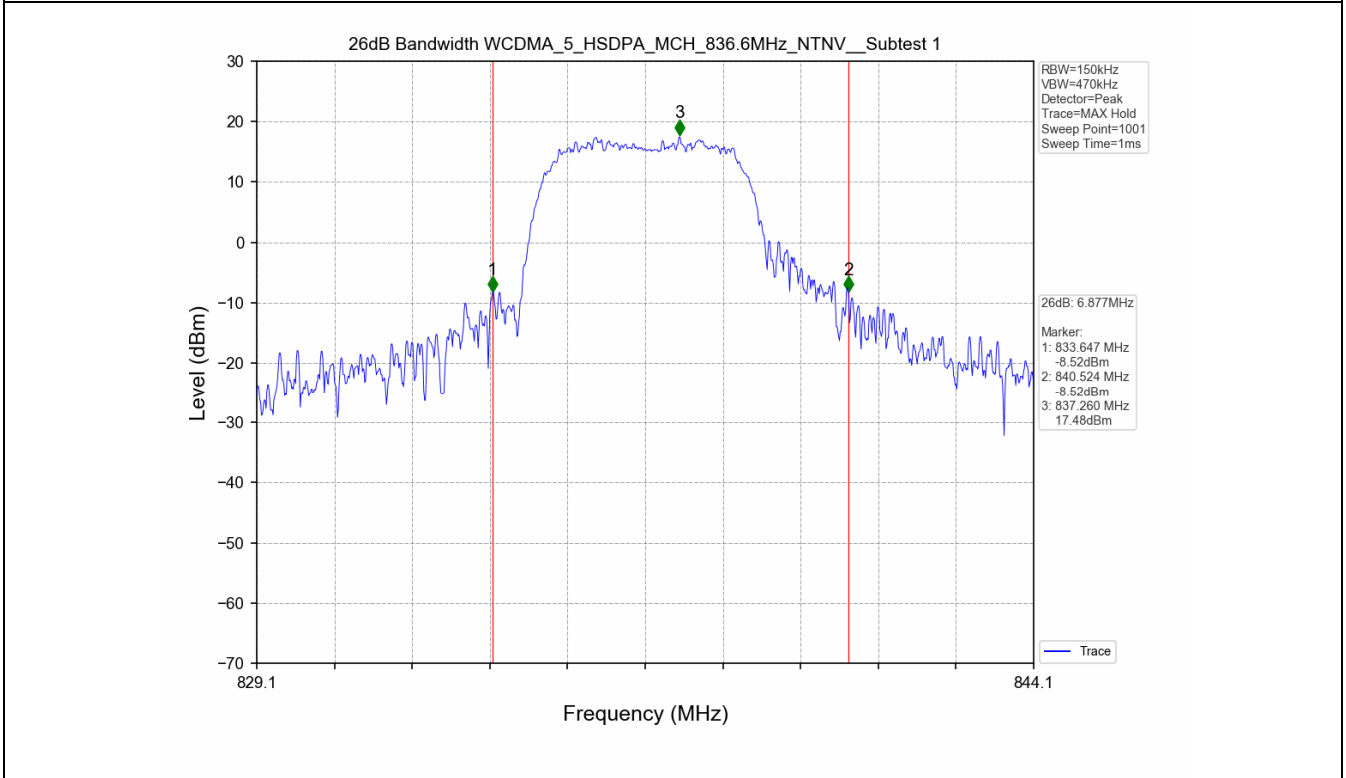
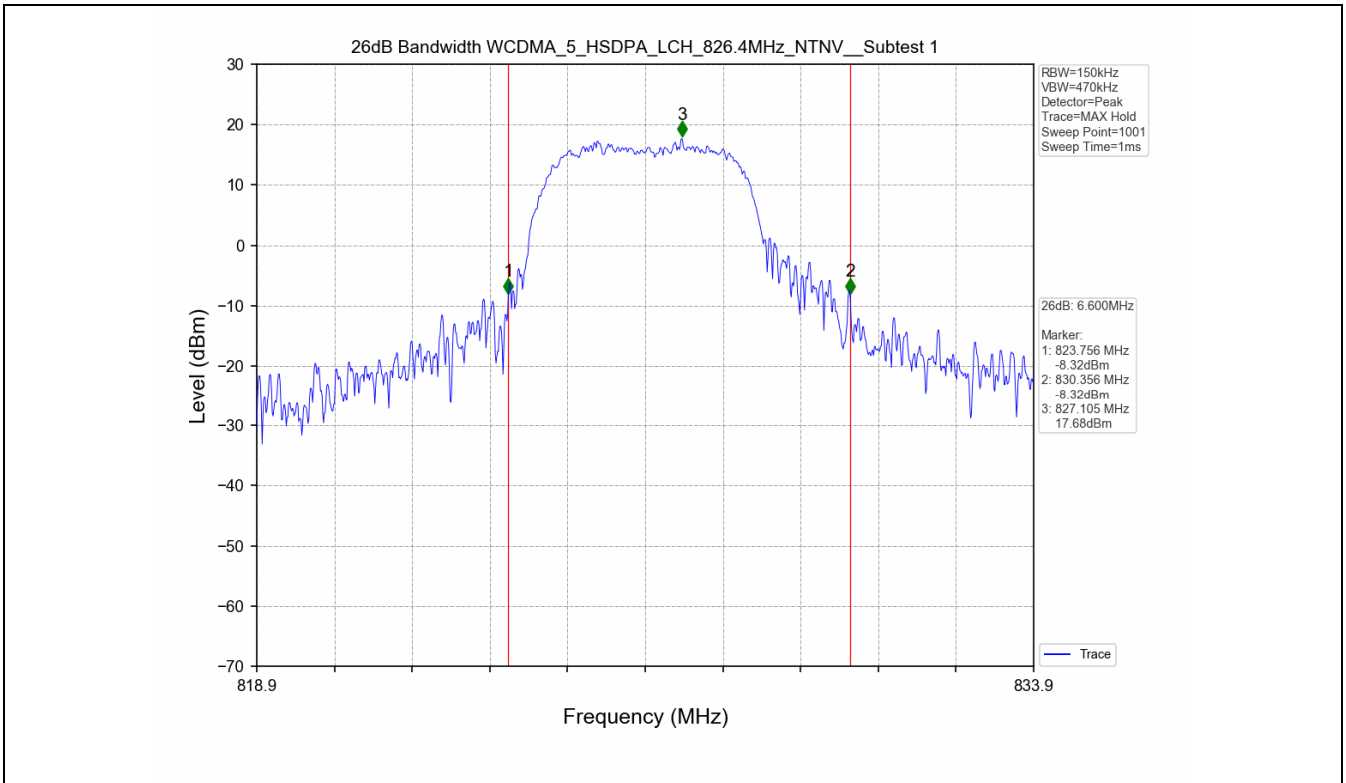
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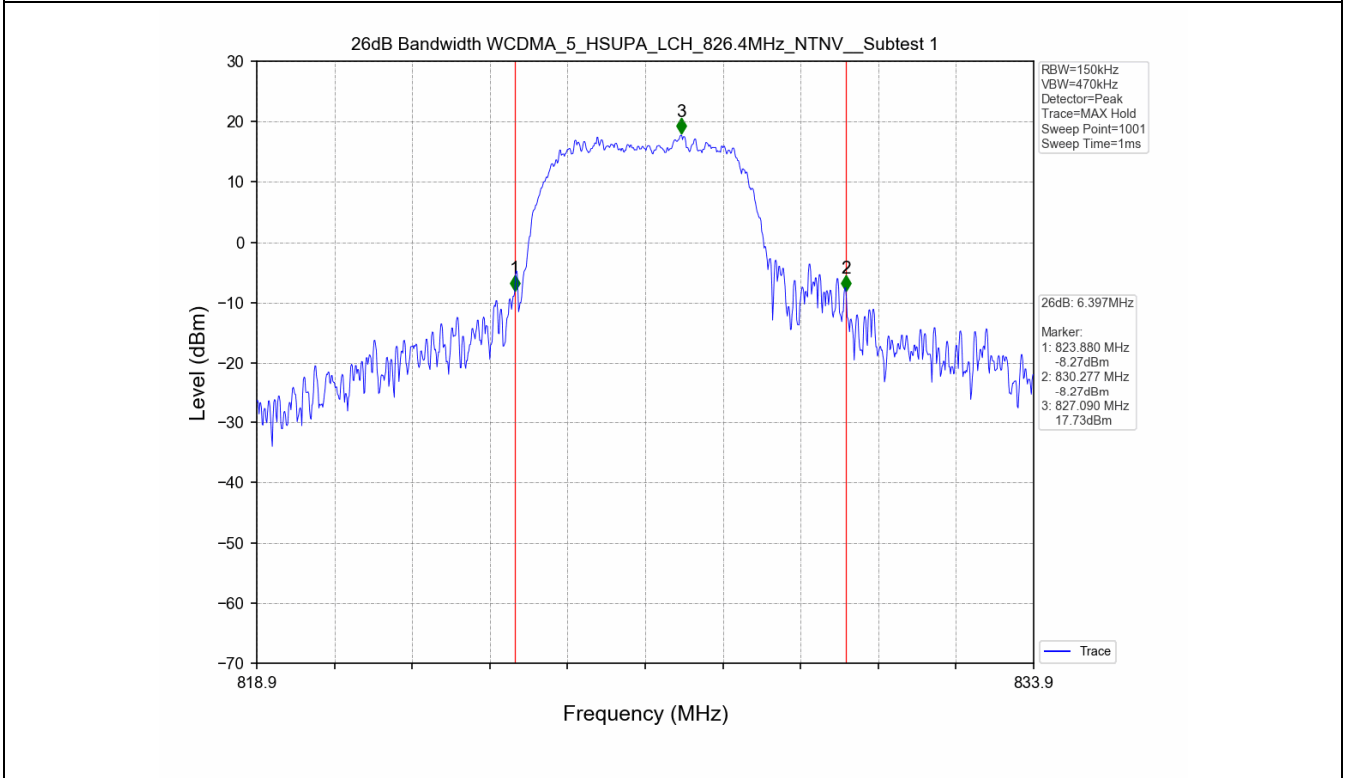
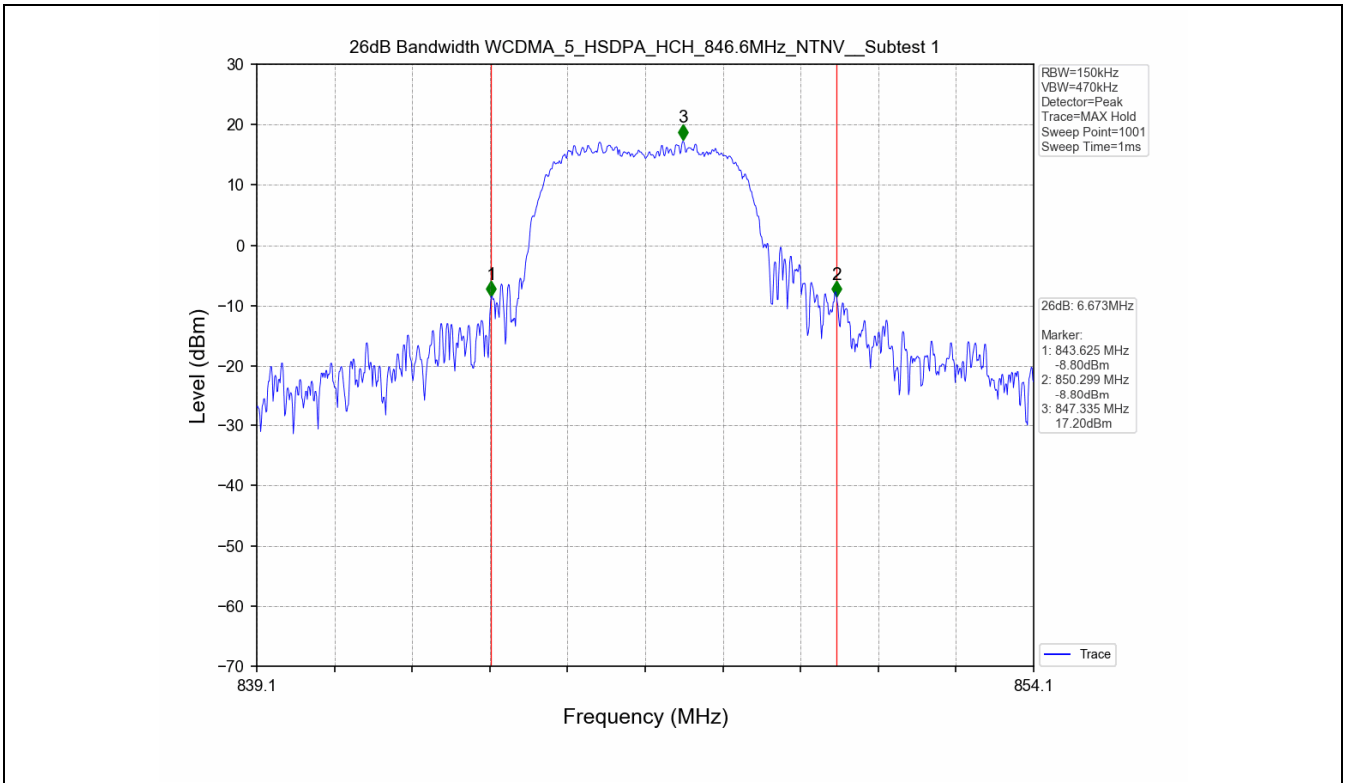
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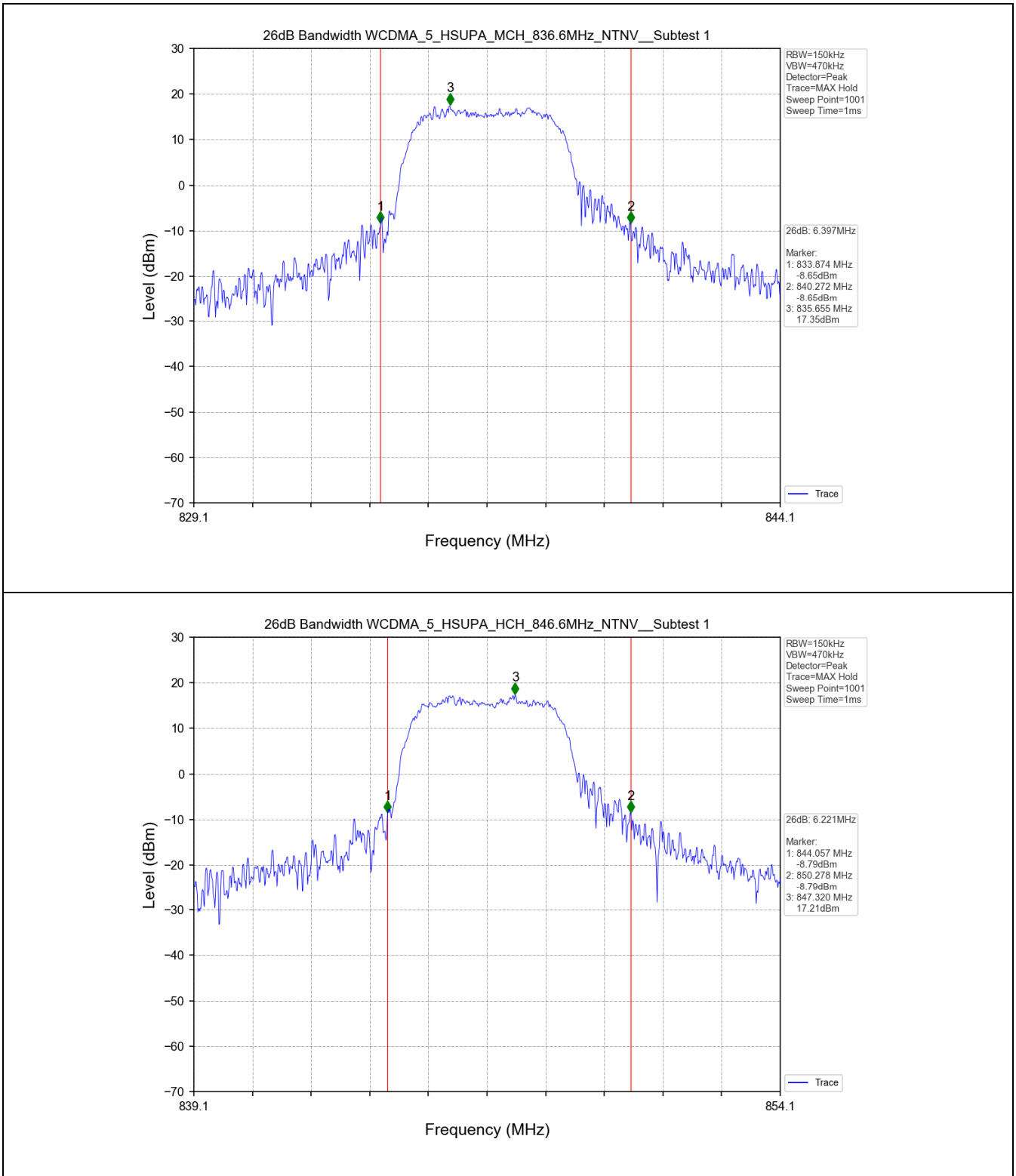
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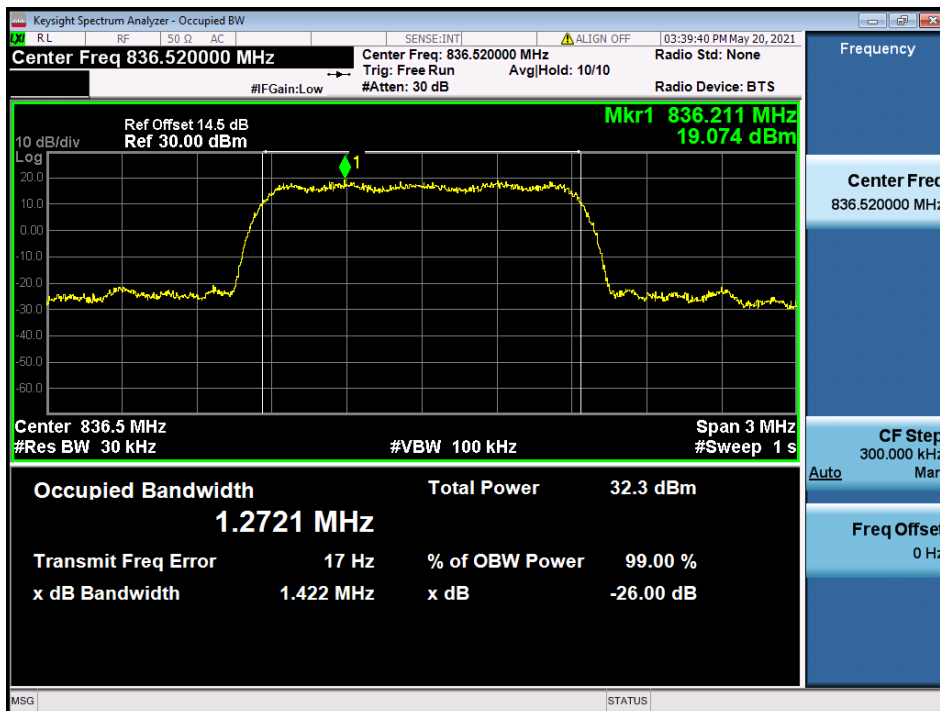
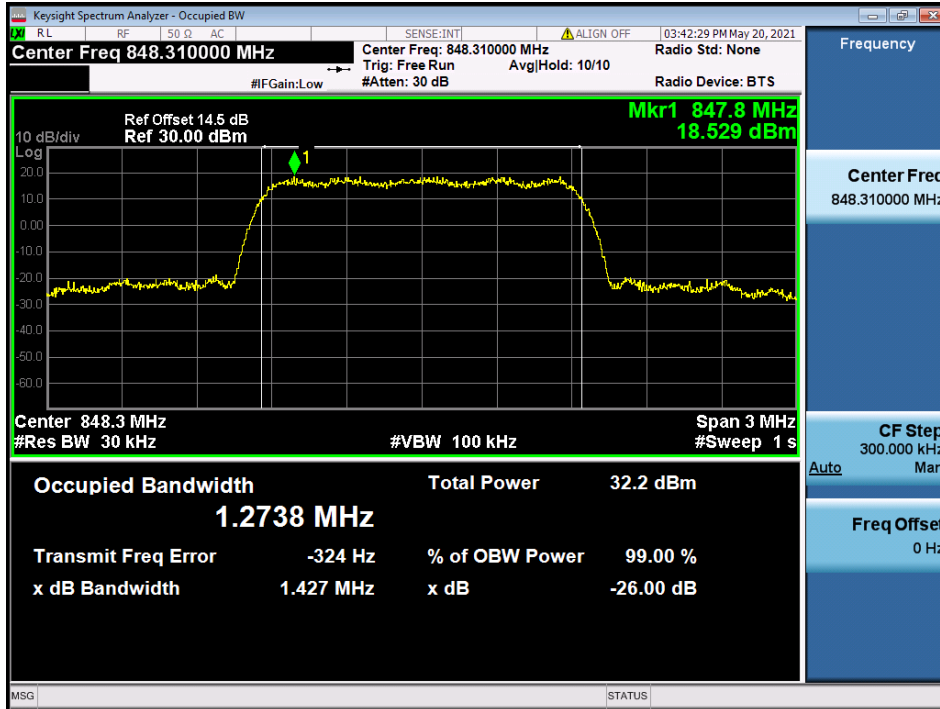
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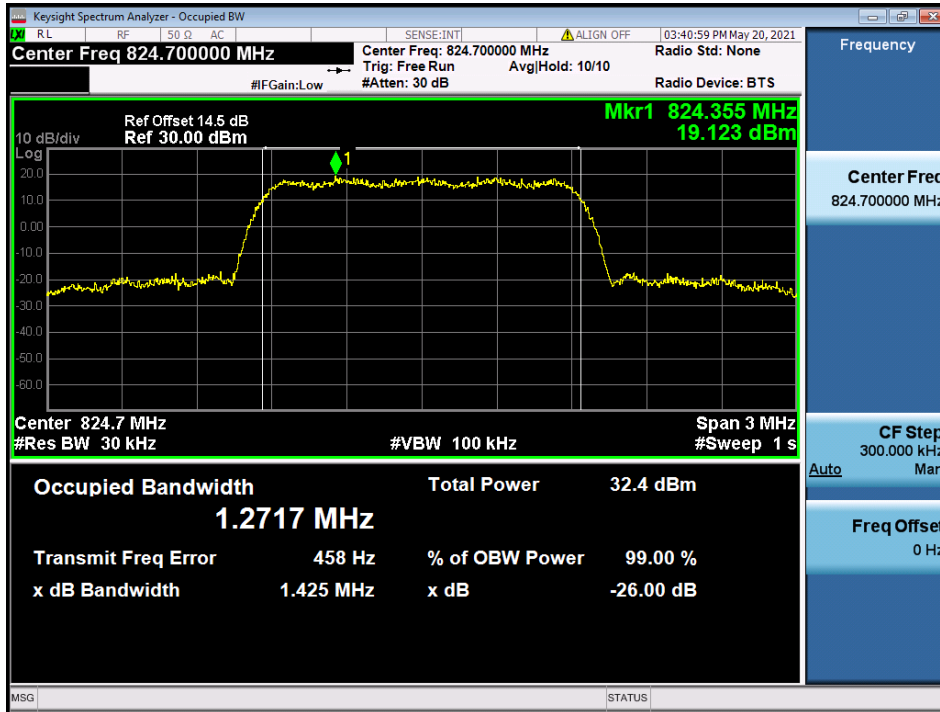
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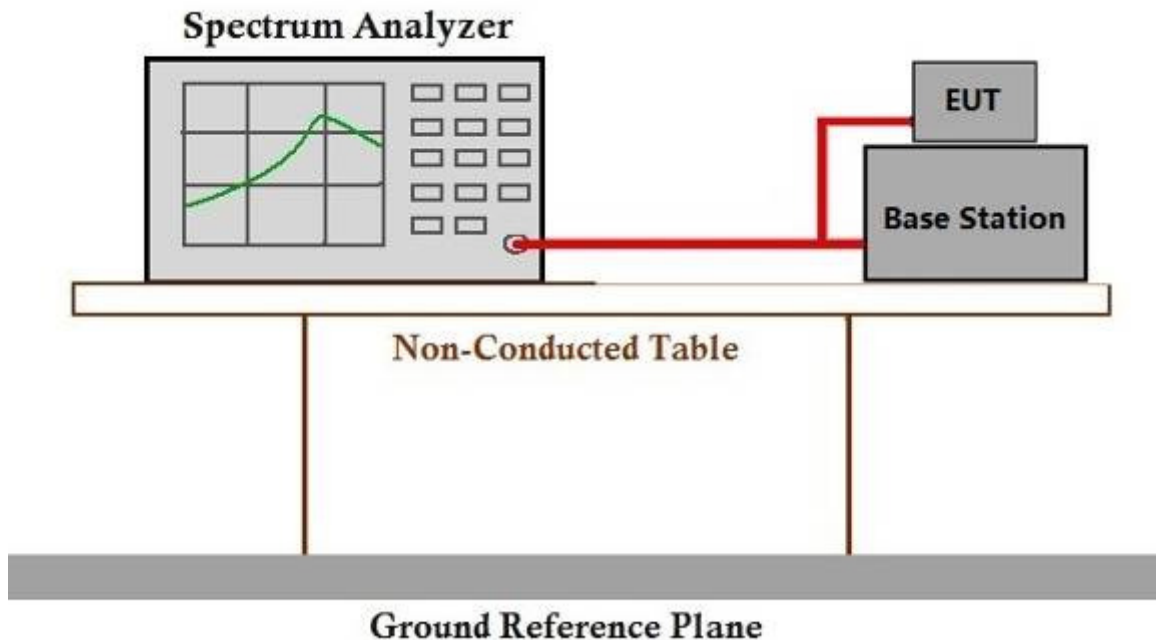
### 6.4 Band Edge Compliance

Test Requirement: §2.1051, §22.917, §24.238  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit:  $\leq -13\text{dBm}/1\% \cdot \text{EBW}$ , in 1 MHz bands immediately outside and adjacent to the frequency block.

#### 6.4.1 E.U.T. Operation

Operating Environment:  
 Temperature: 19.5 °C      Humidity: 45.5 % RH      Atmospheric Pressure: 1010 mbar  
 Test mode: 20: TX mode\_Keep the EUT in transmitting mode

#### 6.4.2 Test Setup Diagram

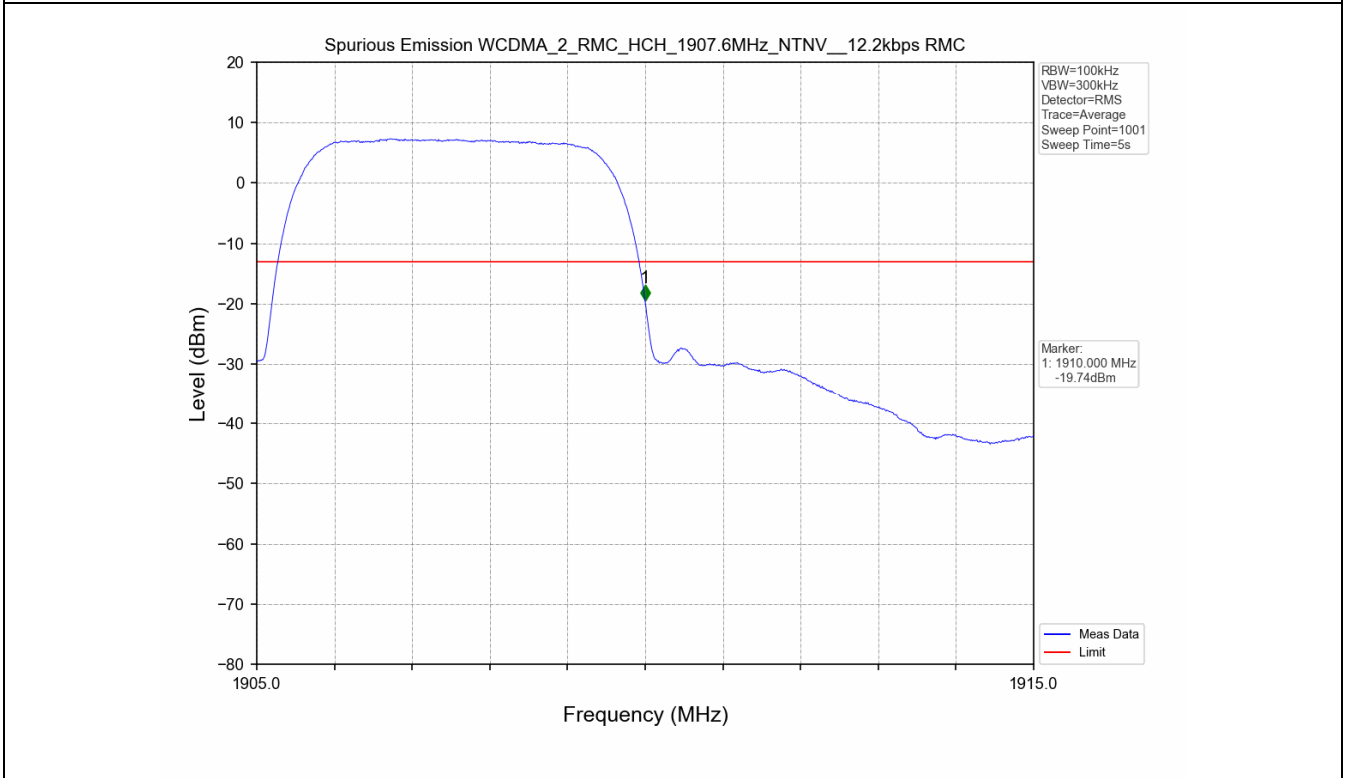
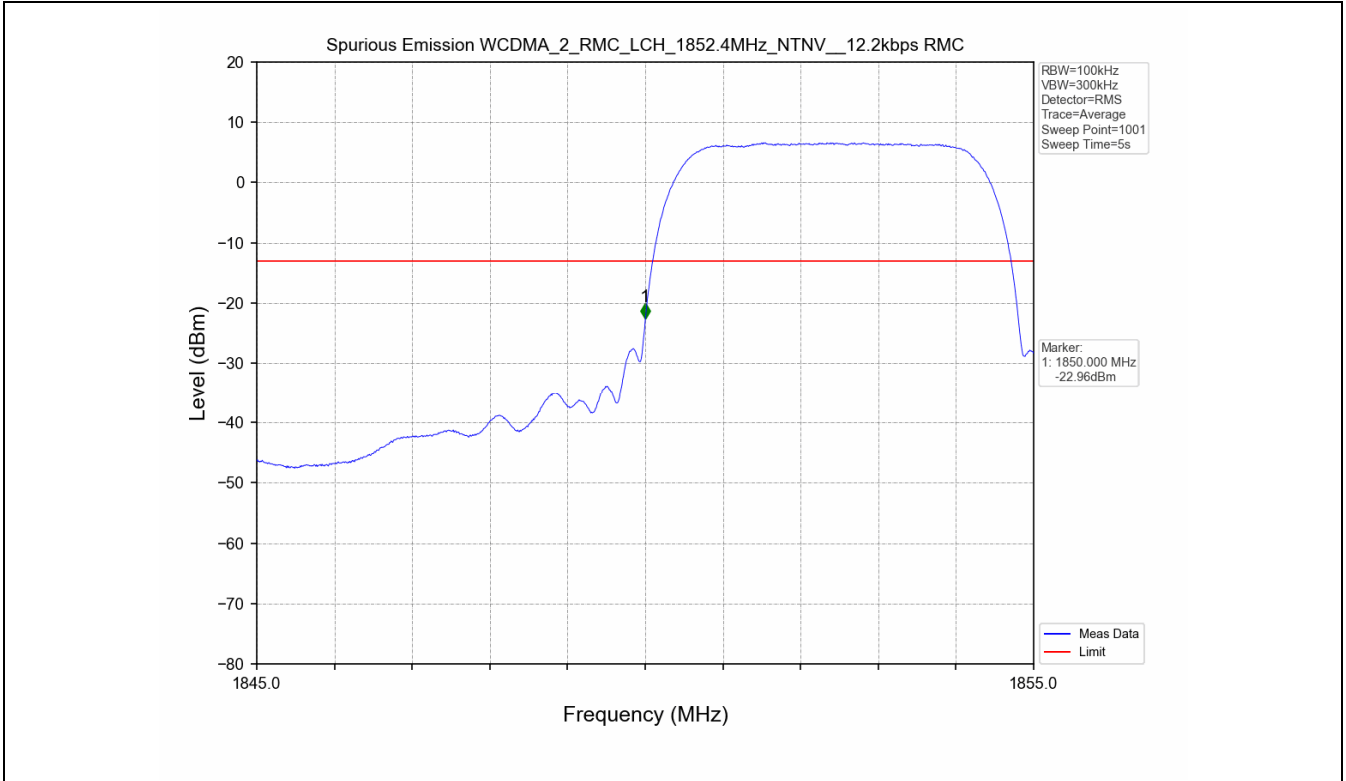


#### 6.4.3 Measurement Data

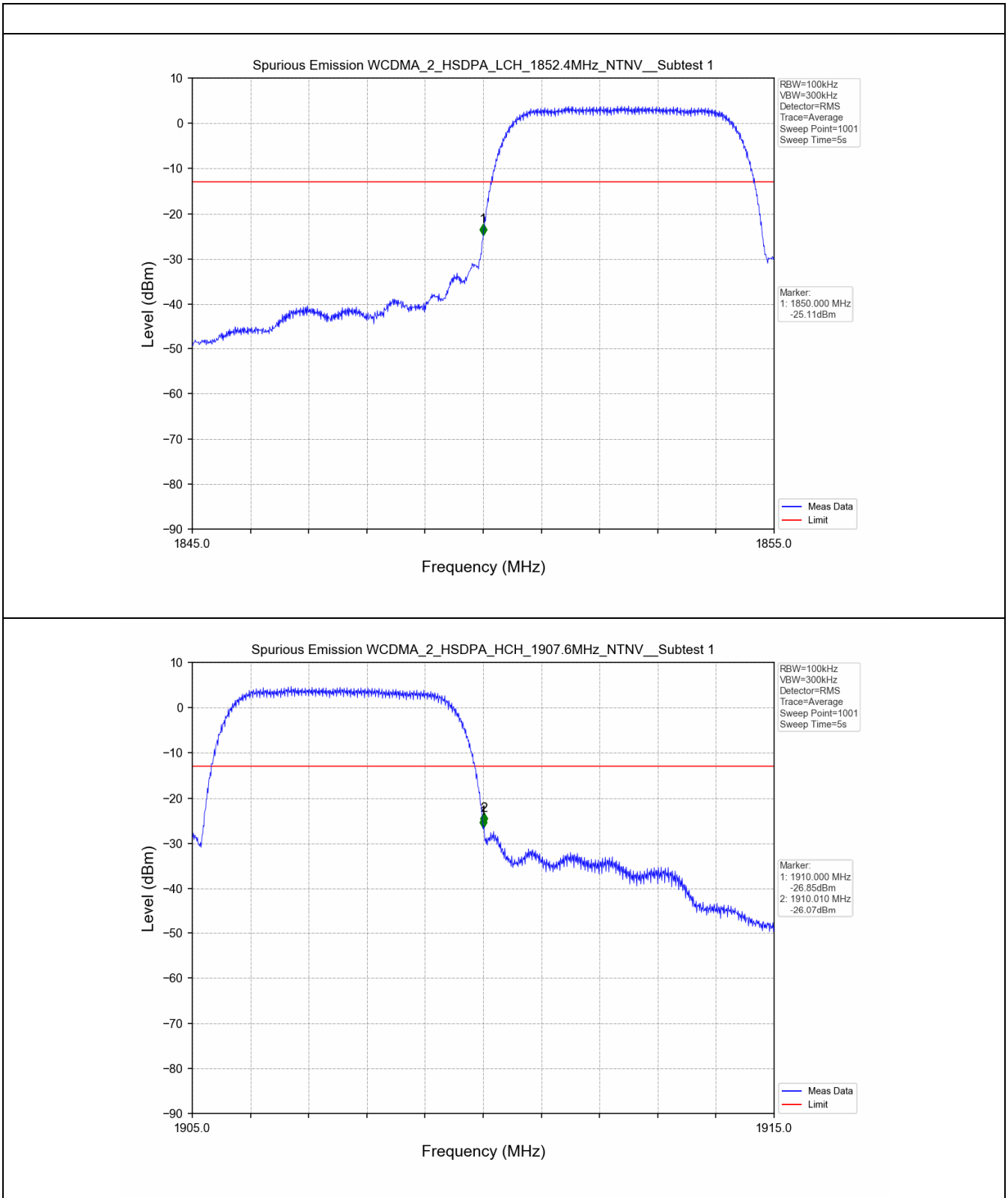


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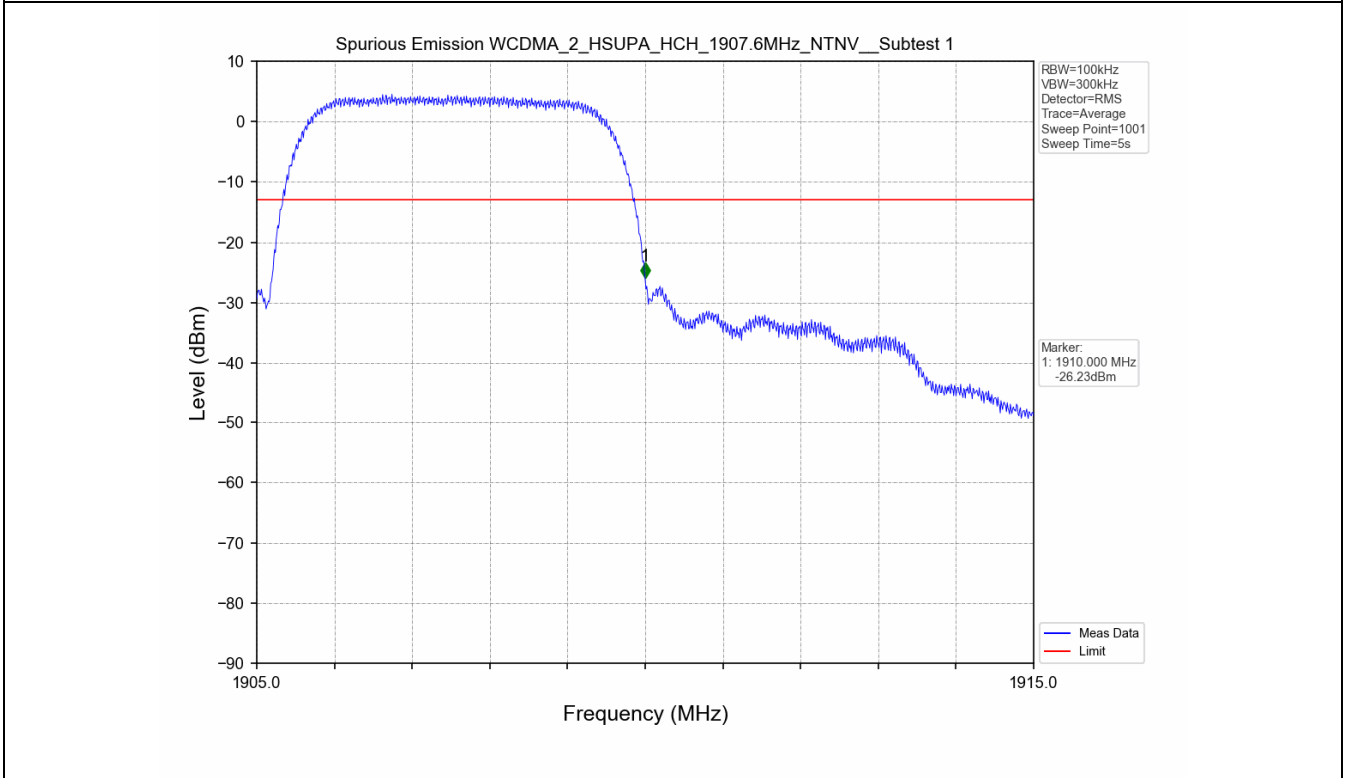
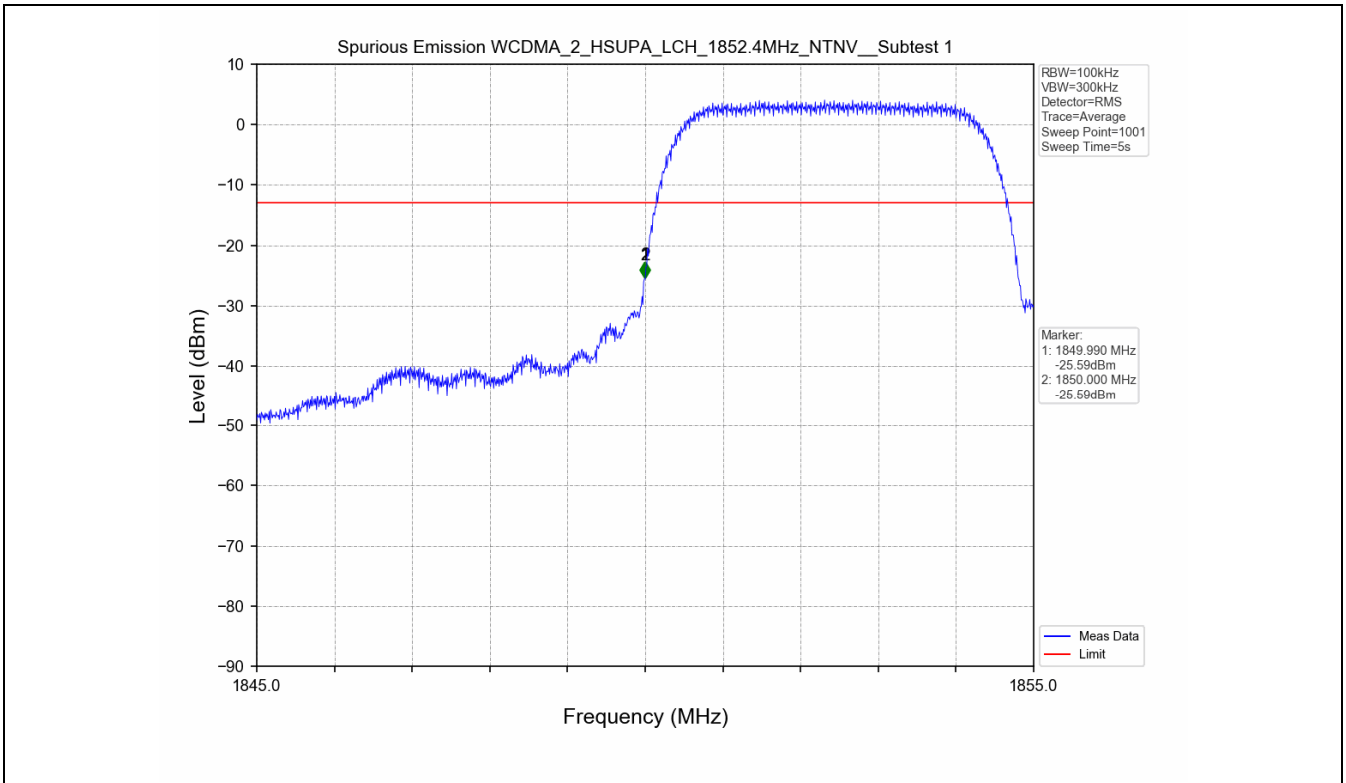
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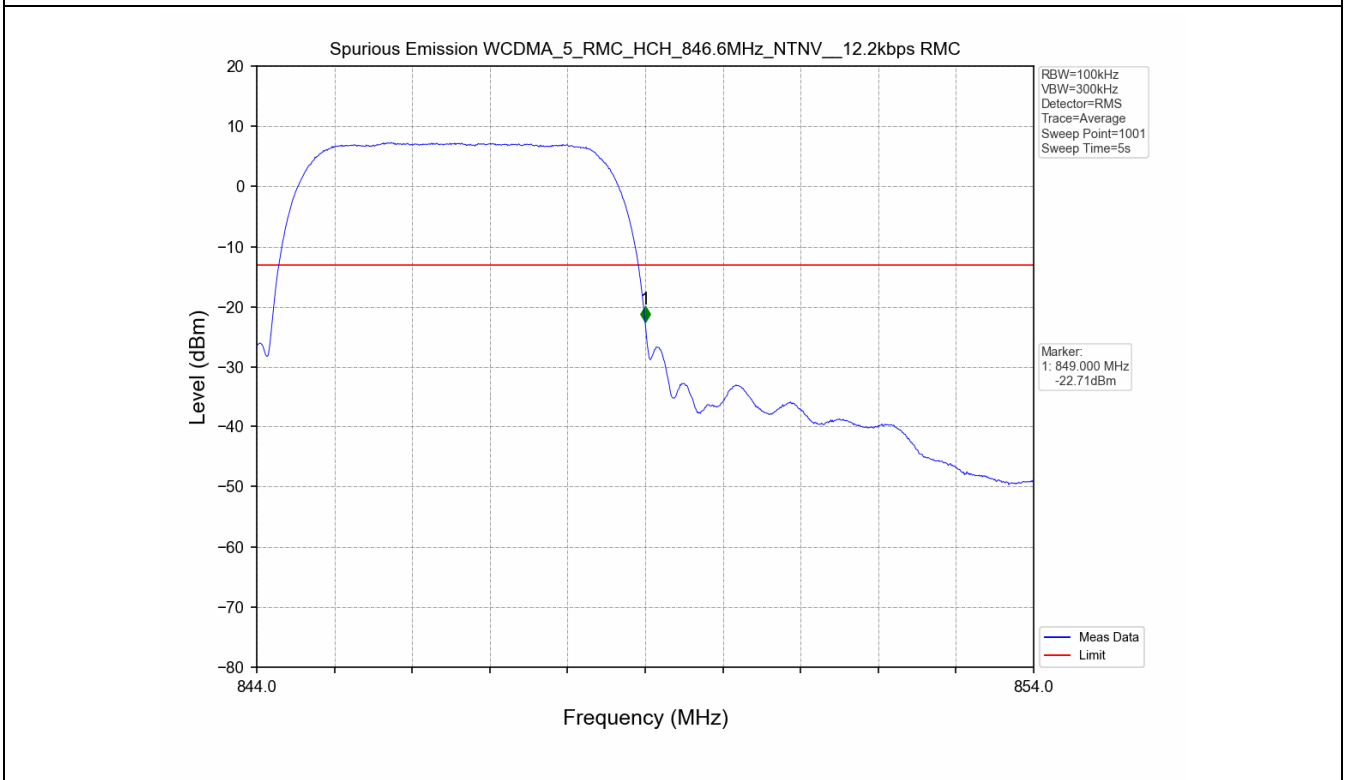
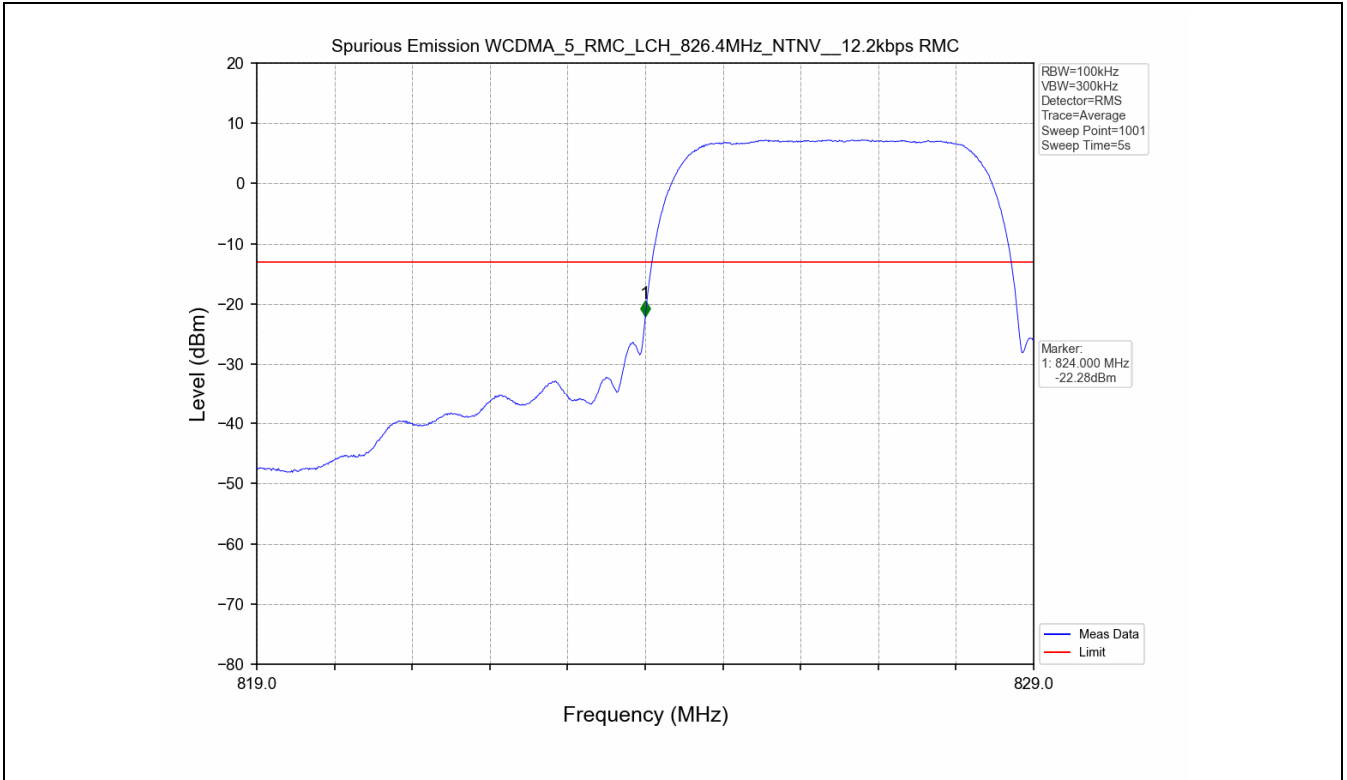


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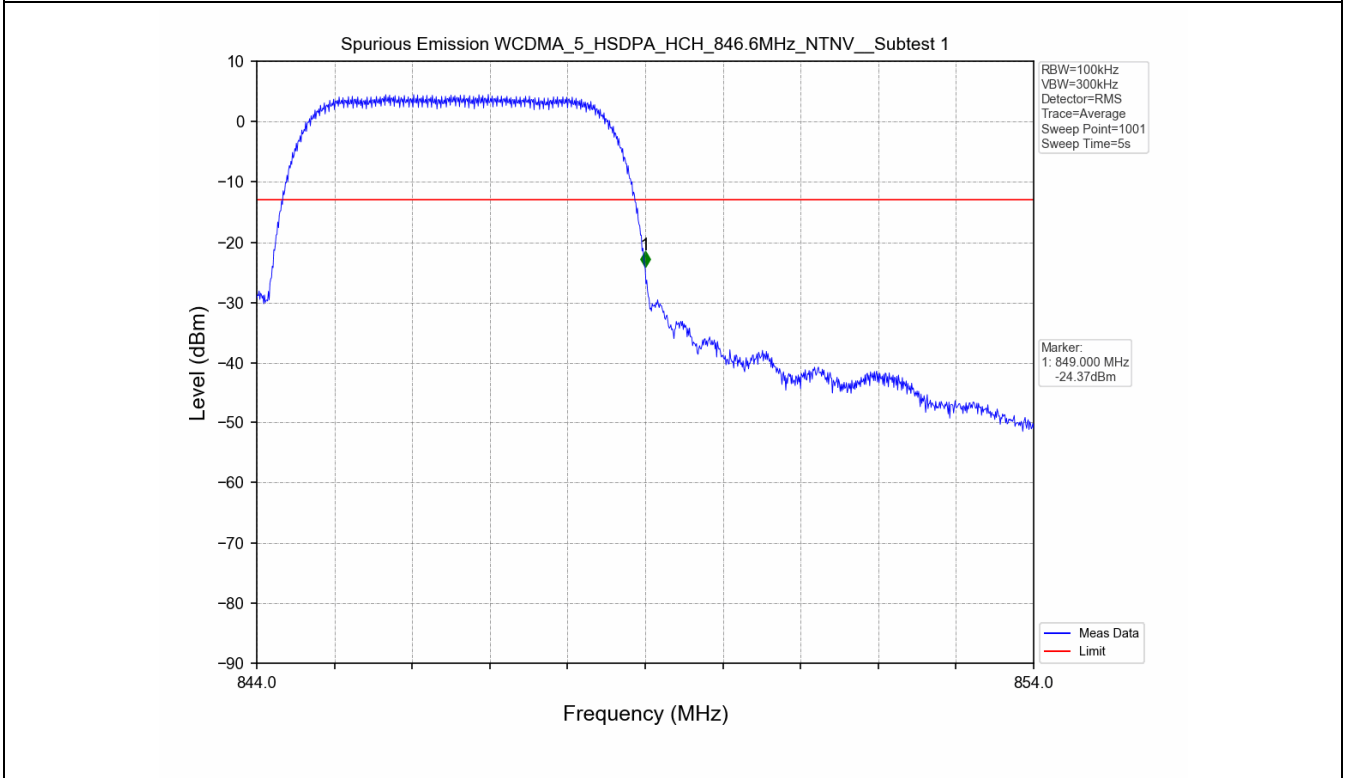
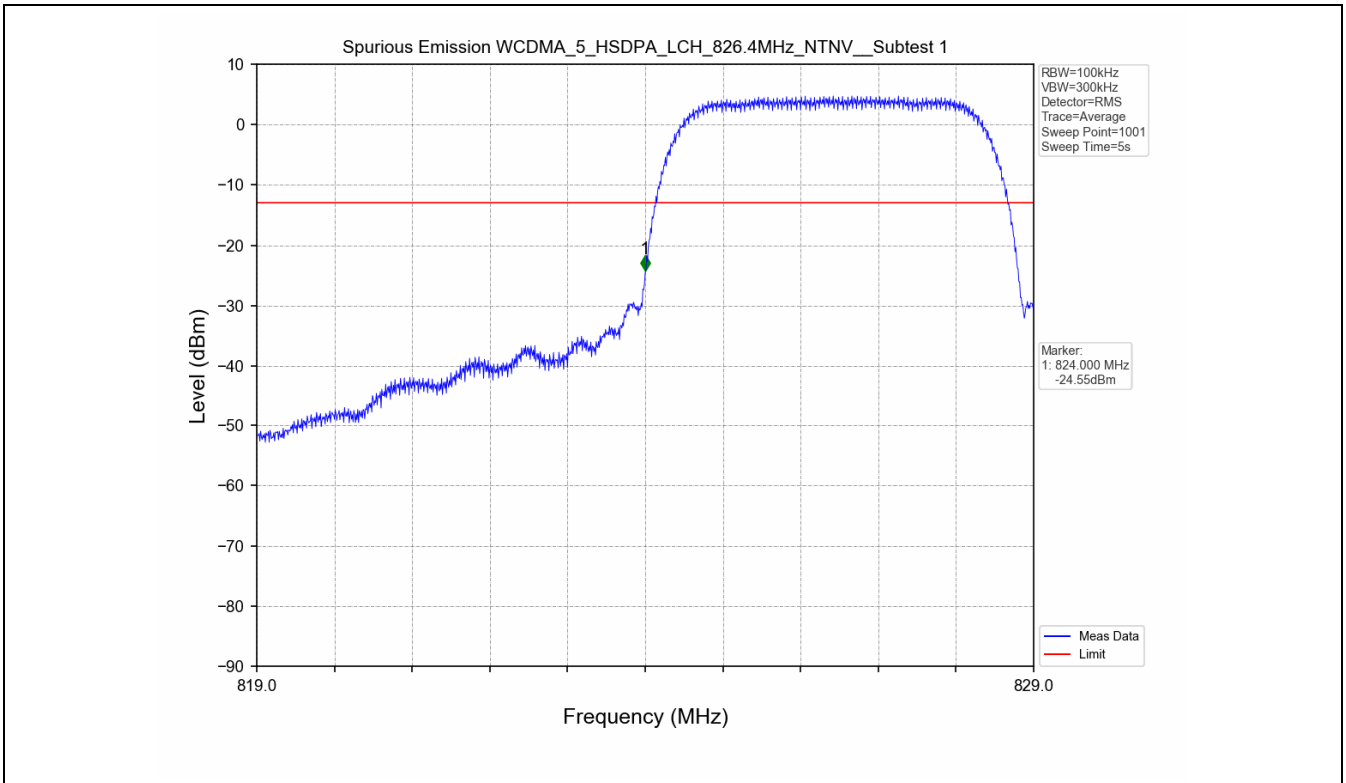
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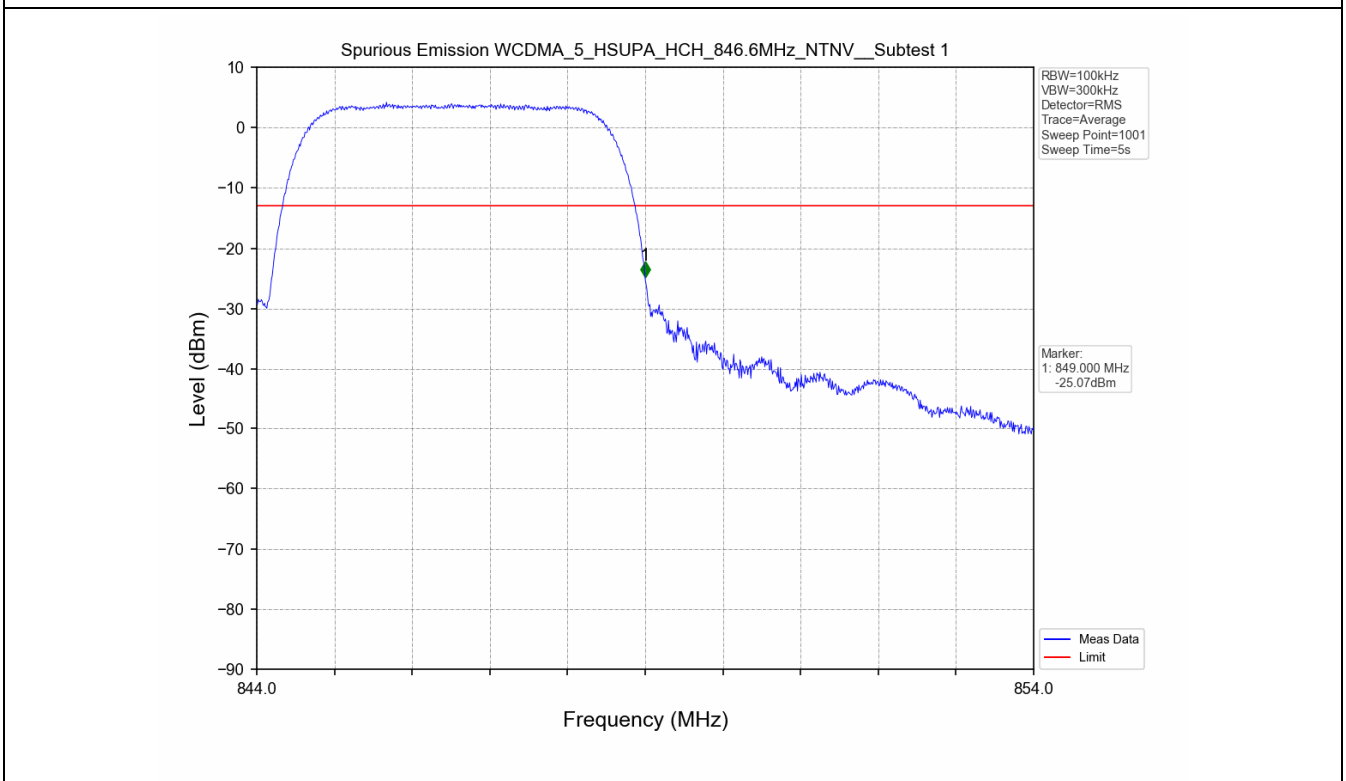
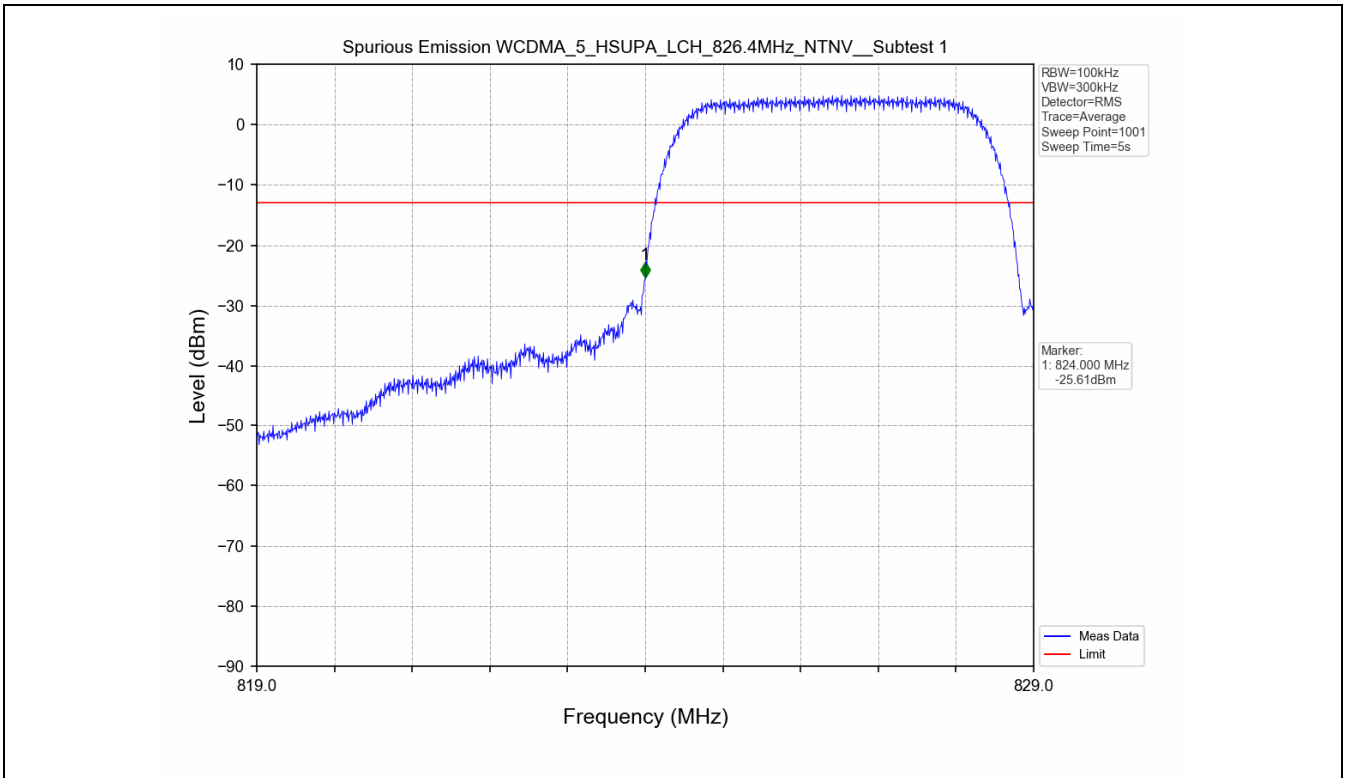
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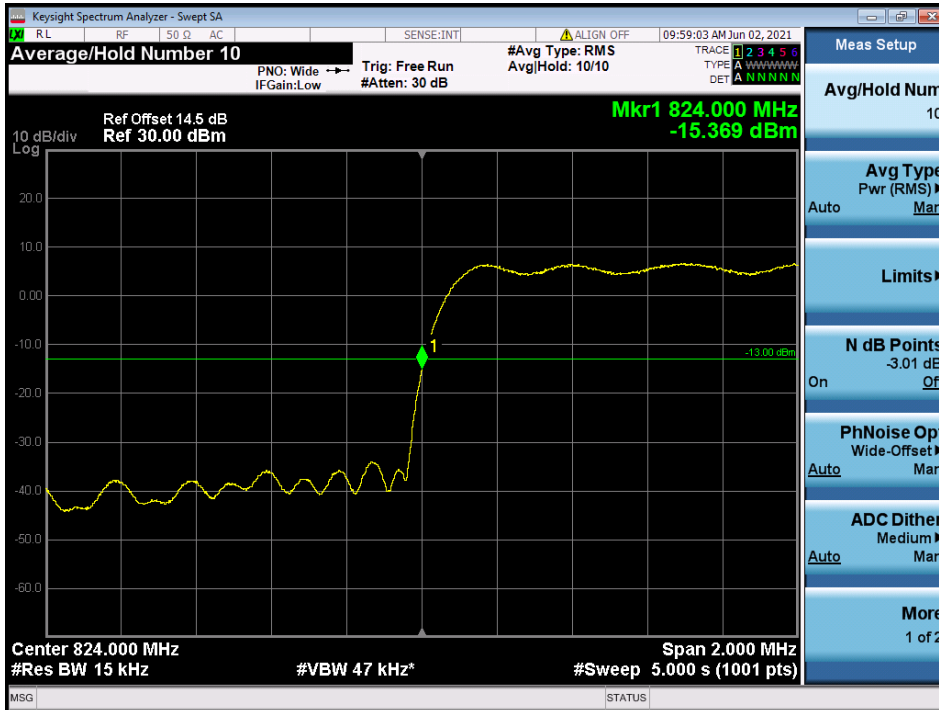
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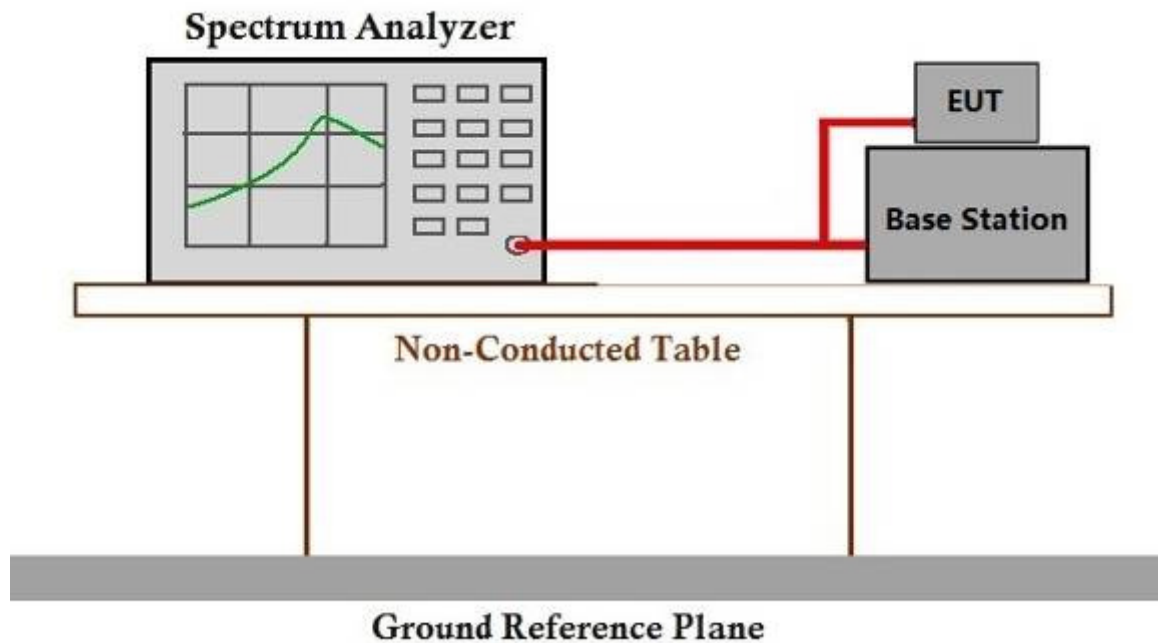
### 6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §24.238  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: ≤ -13dBm

#### 6.5.1 E.U.T. Operation

Operating Environment:  
 Temperature: 19.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar  
 Test mode: 20: TX mode\_Keep the EUT in transmitting mode

#### 6.5.2 Test Setup Diagram



#### 6.5.3 Measurement Data

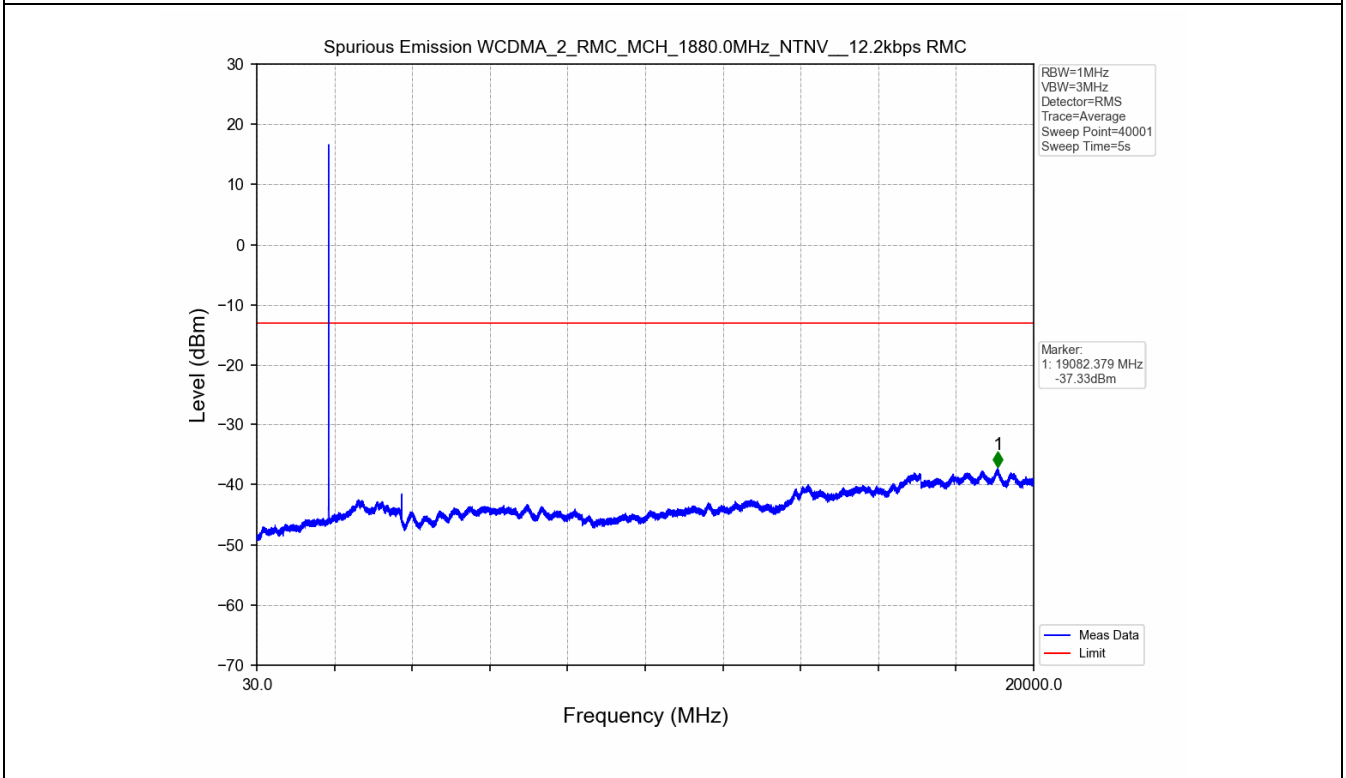
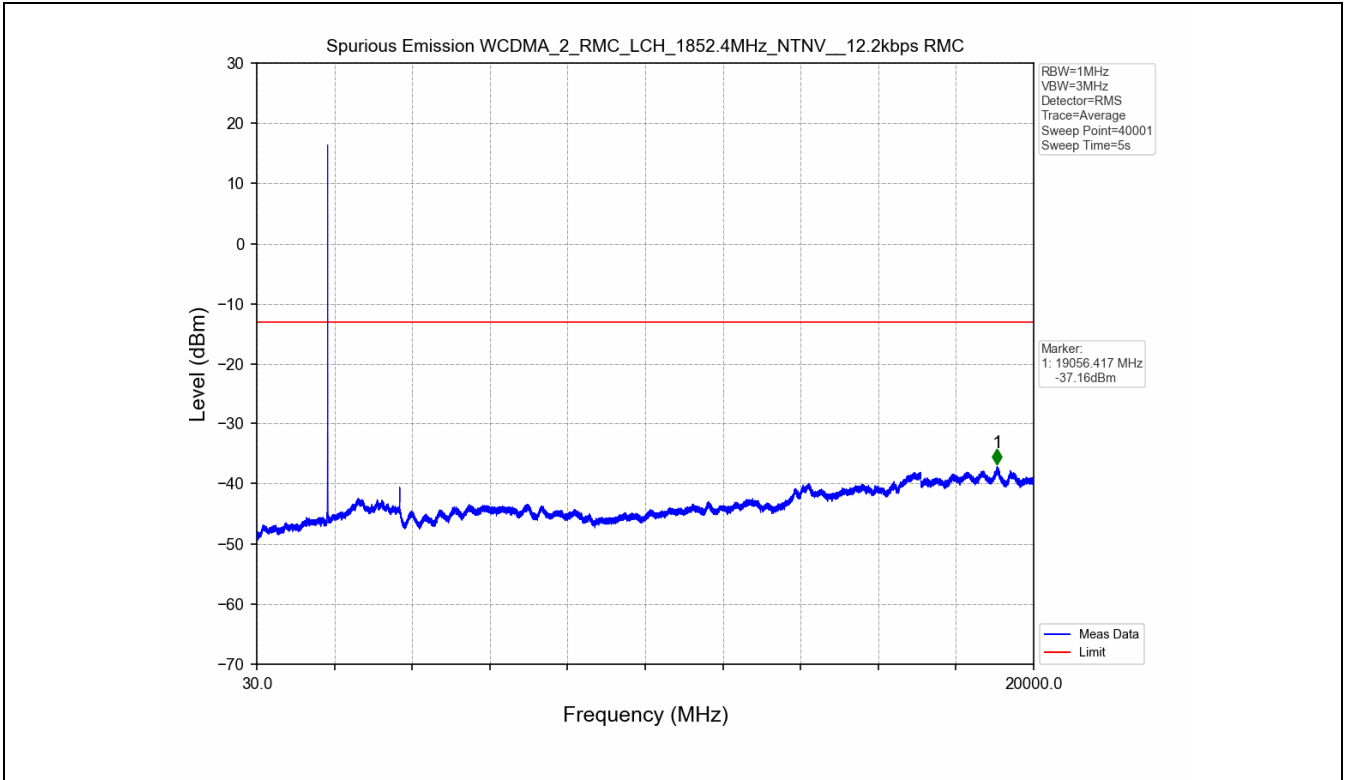


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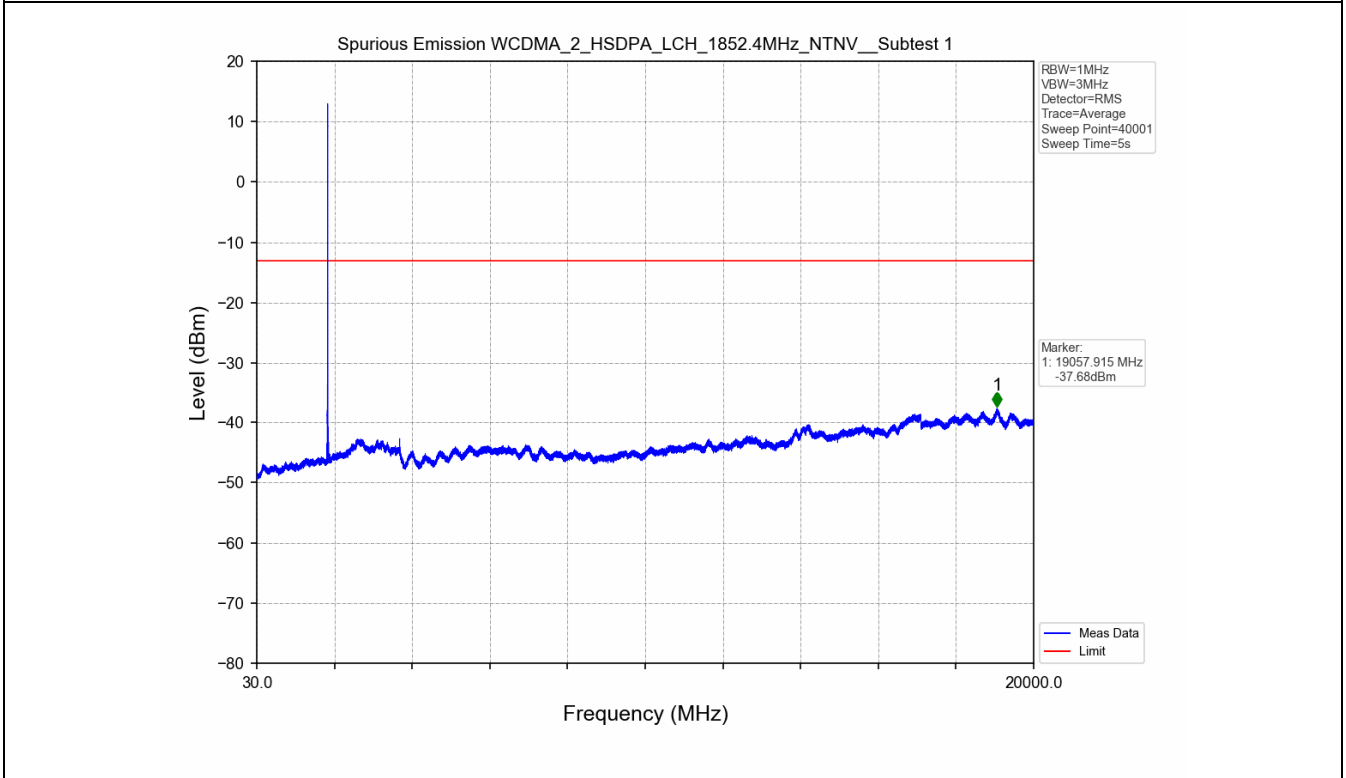
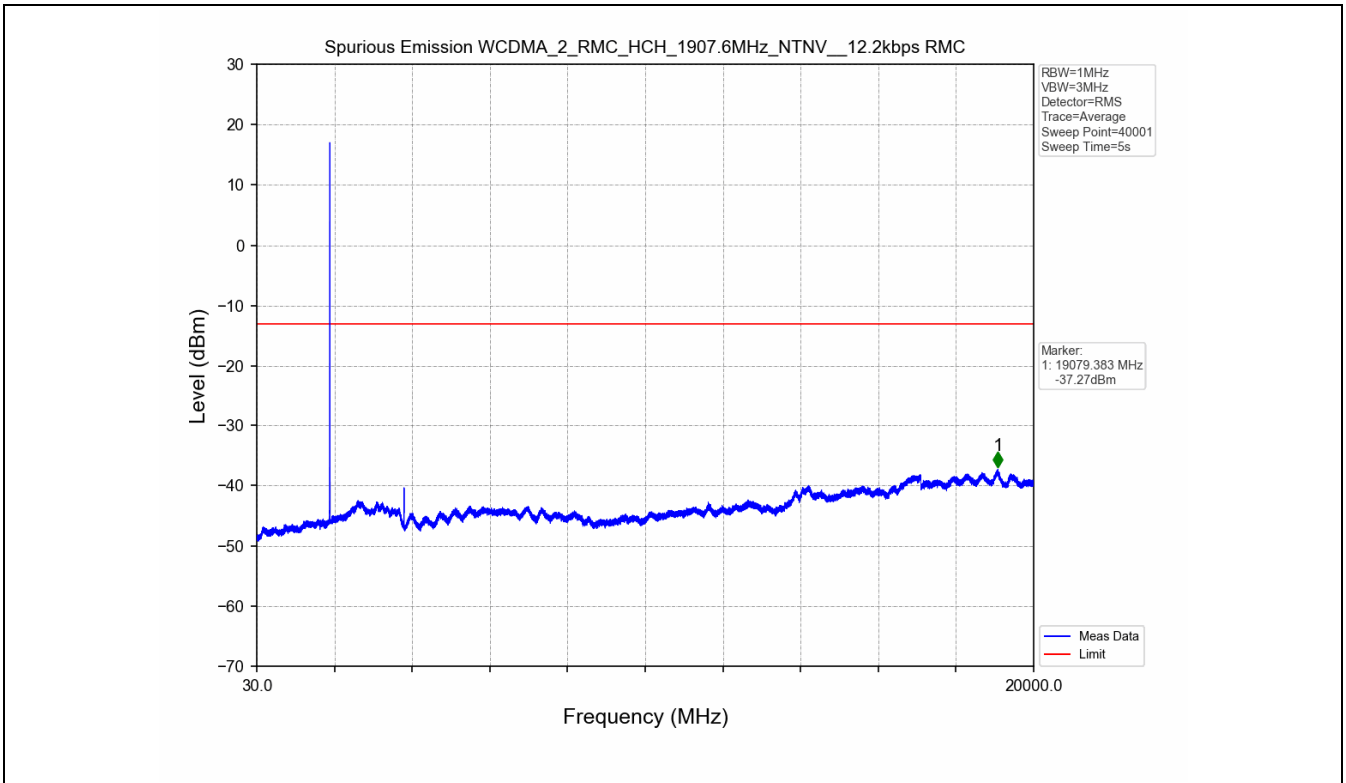
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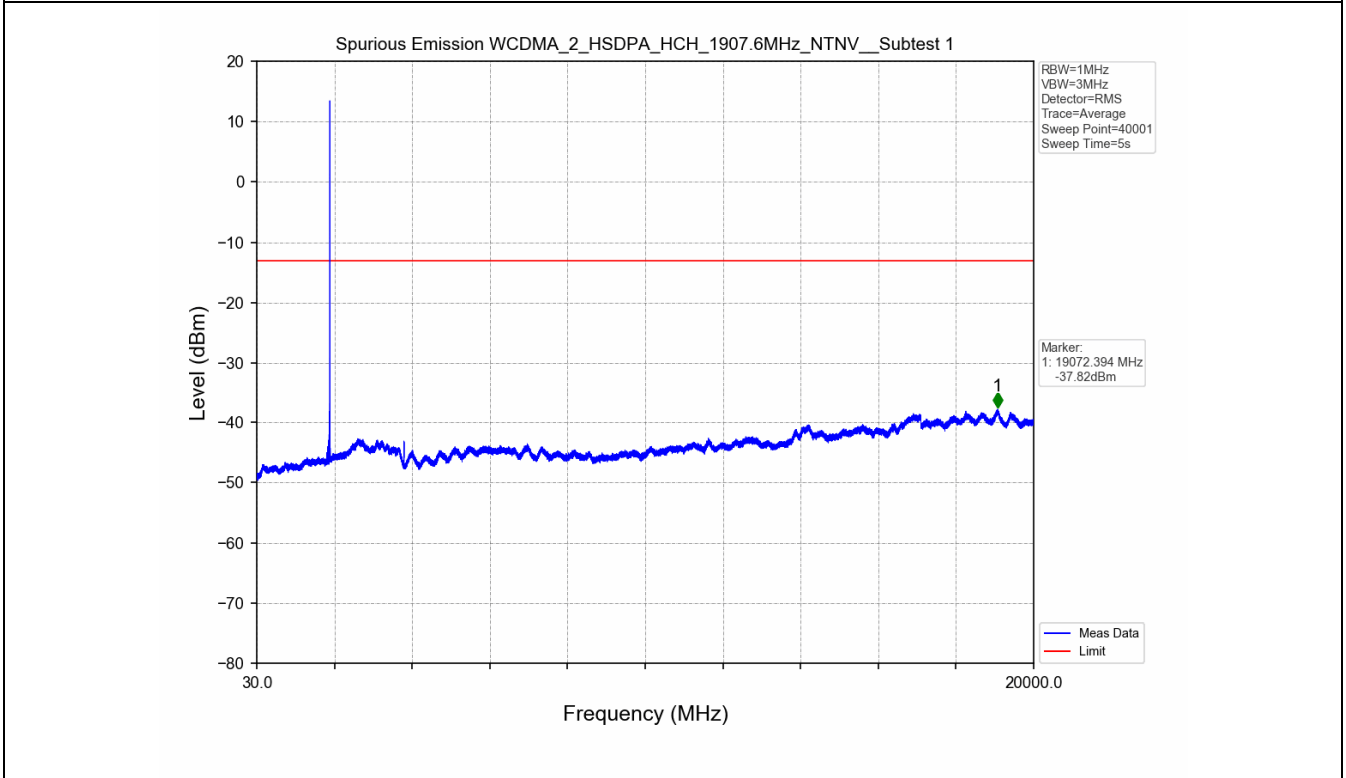
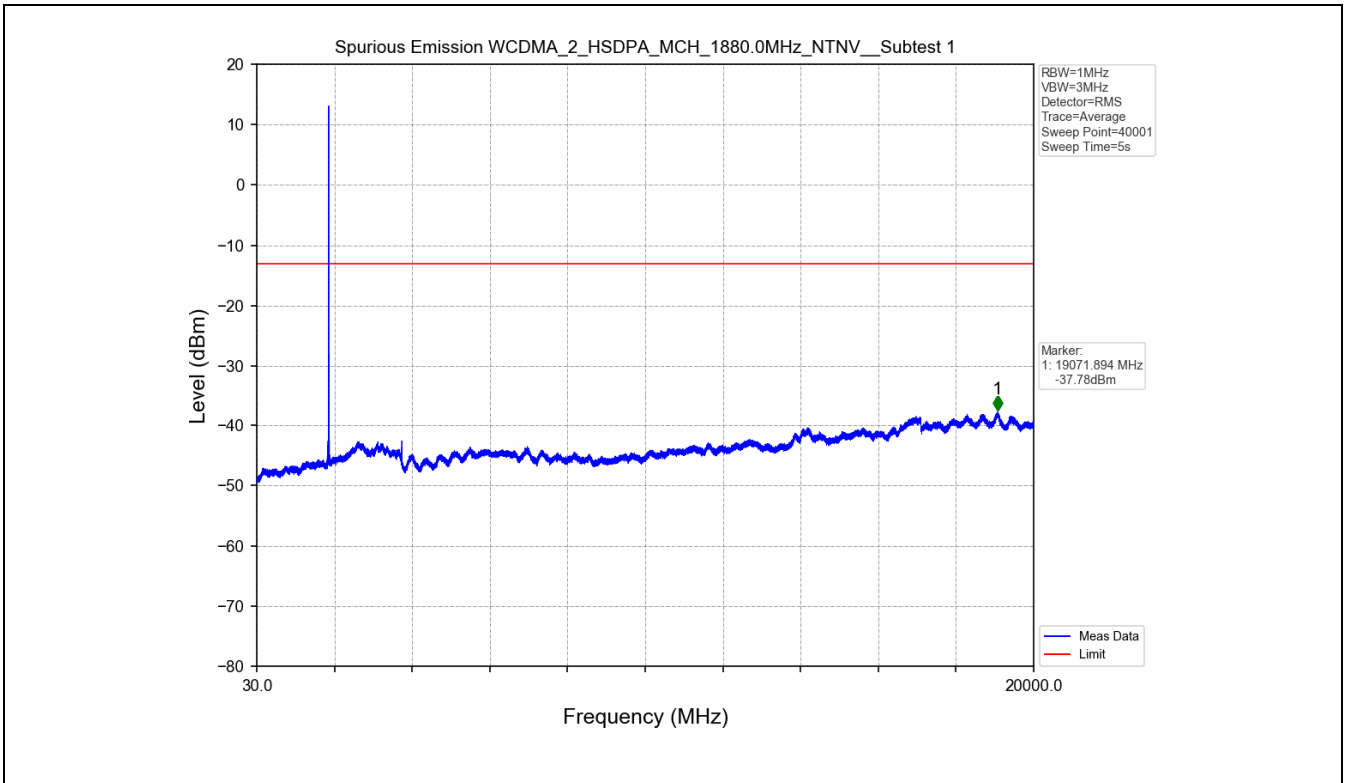
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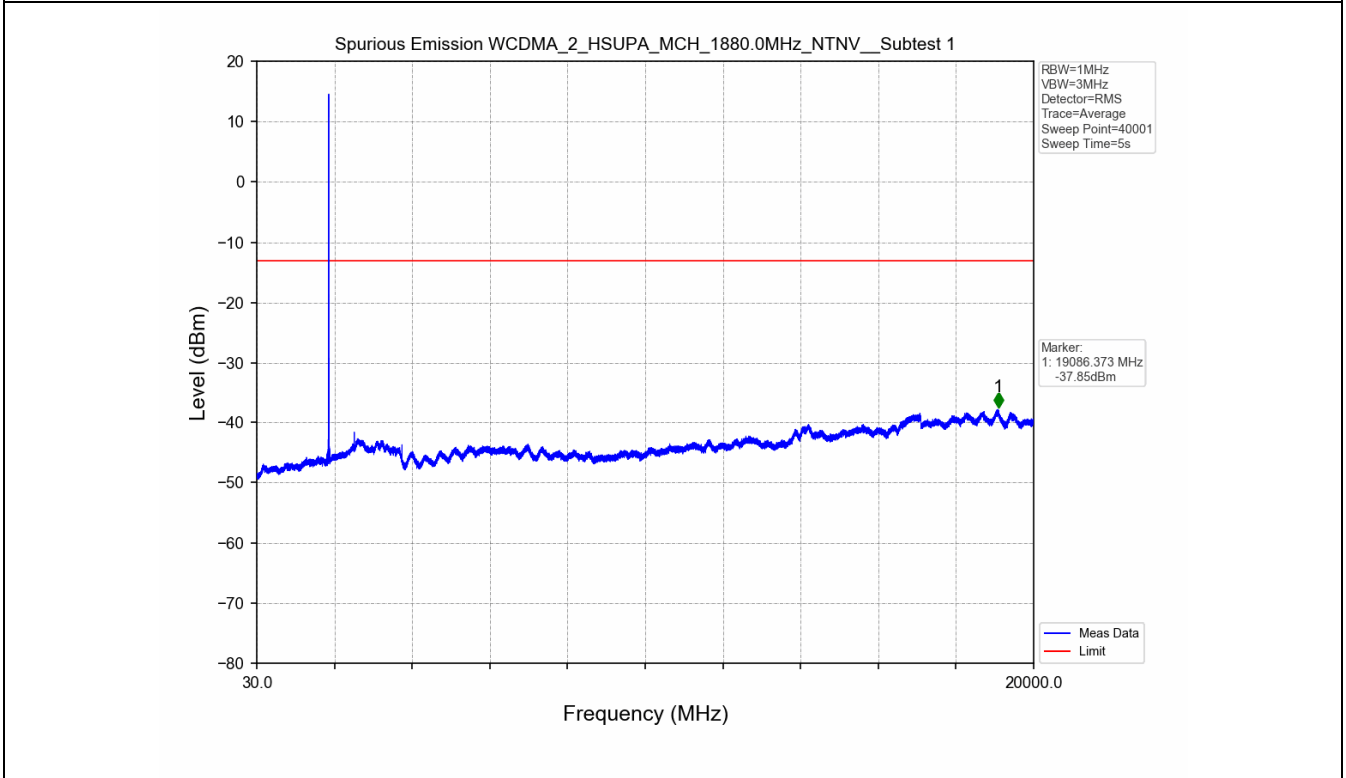
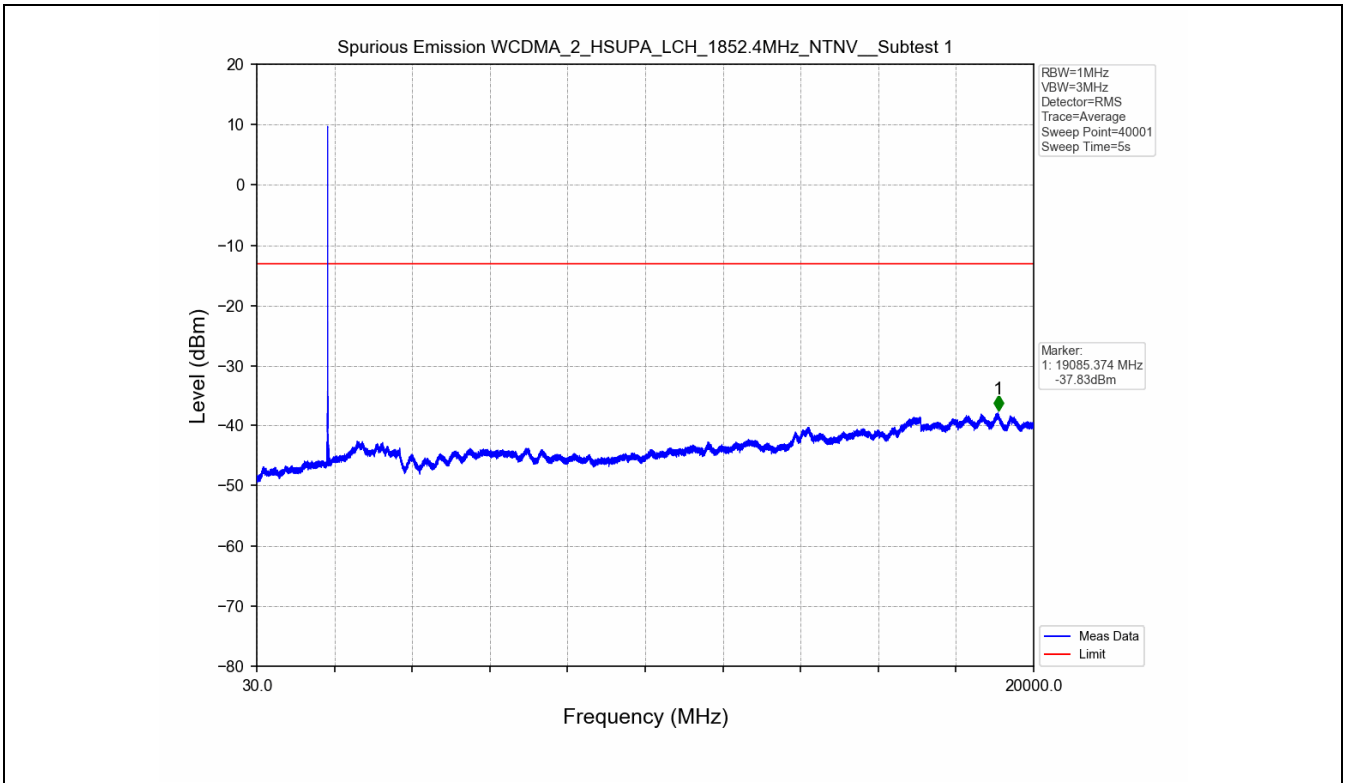
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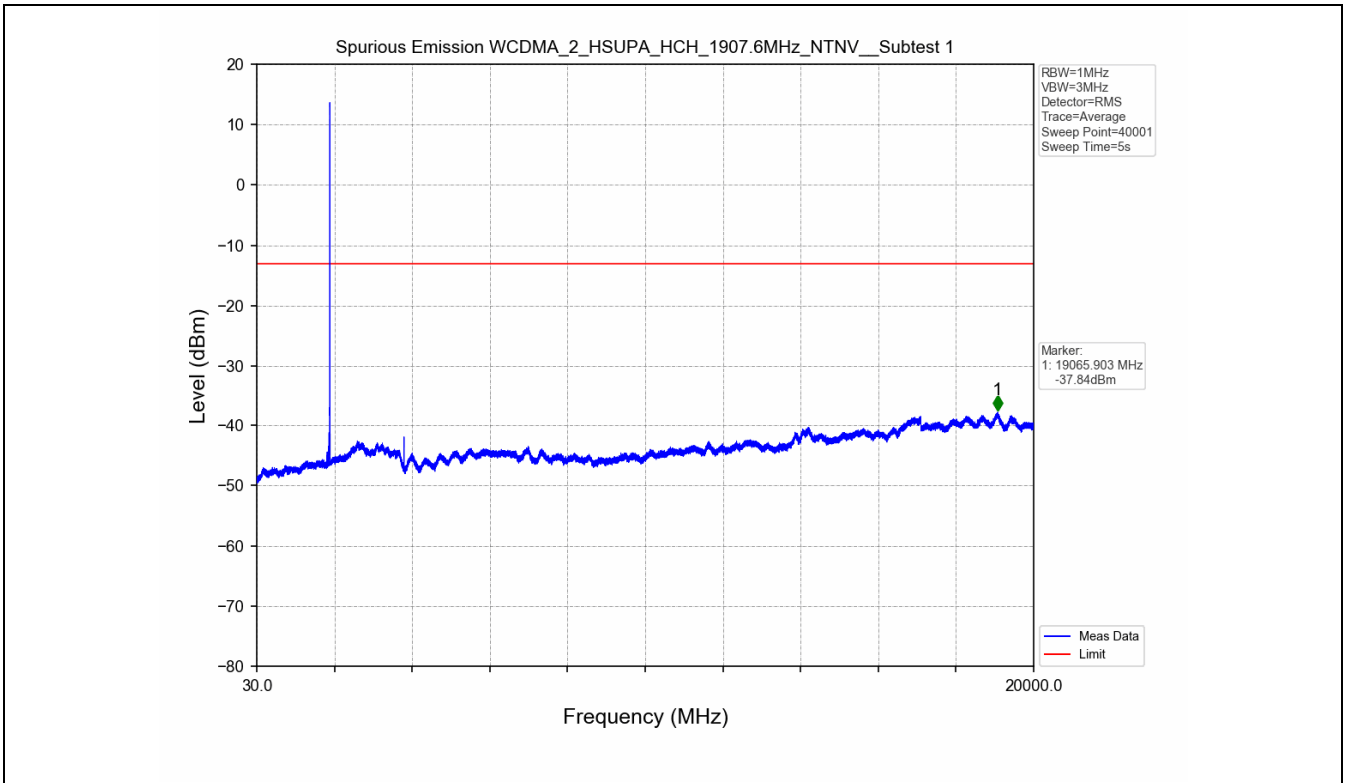
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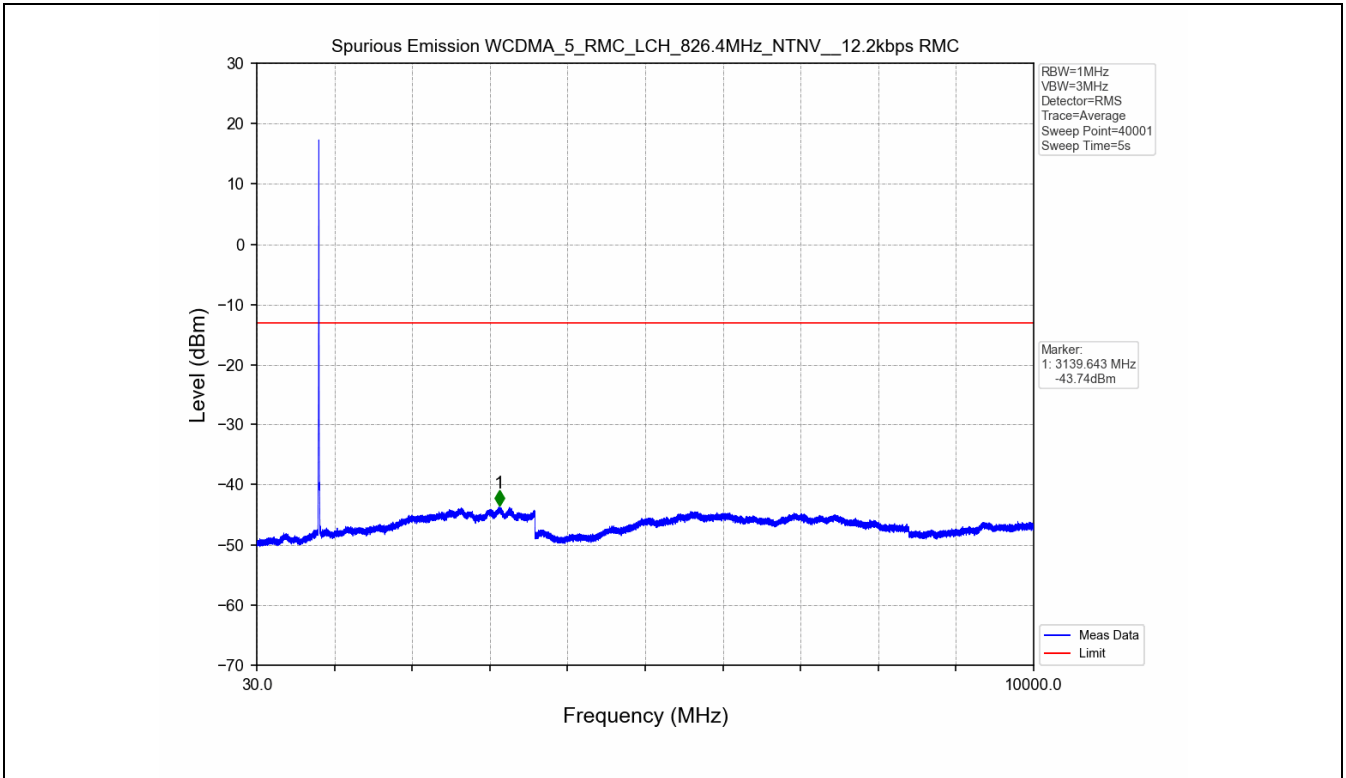
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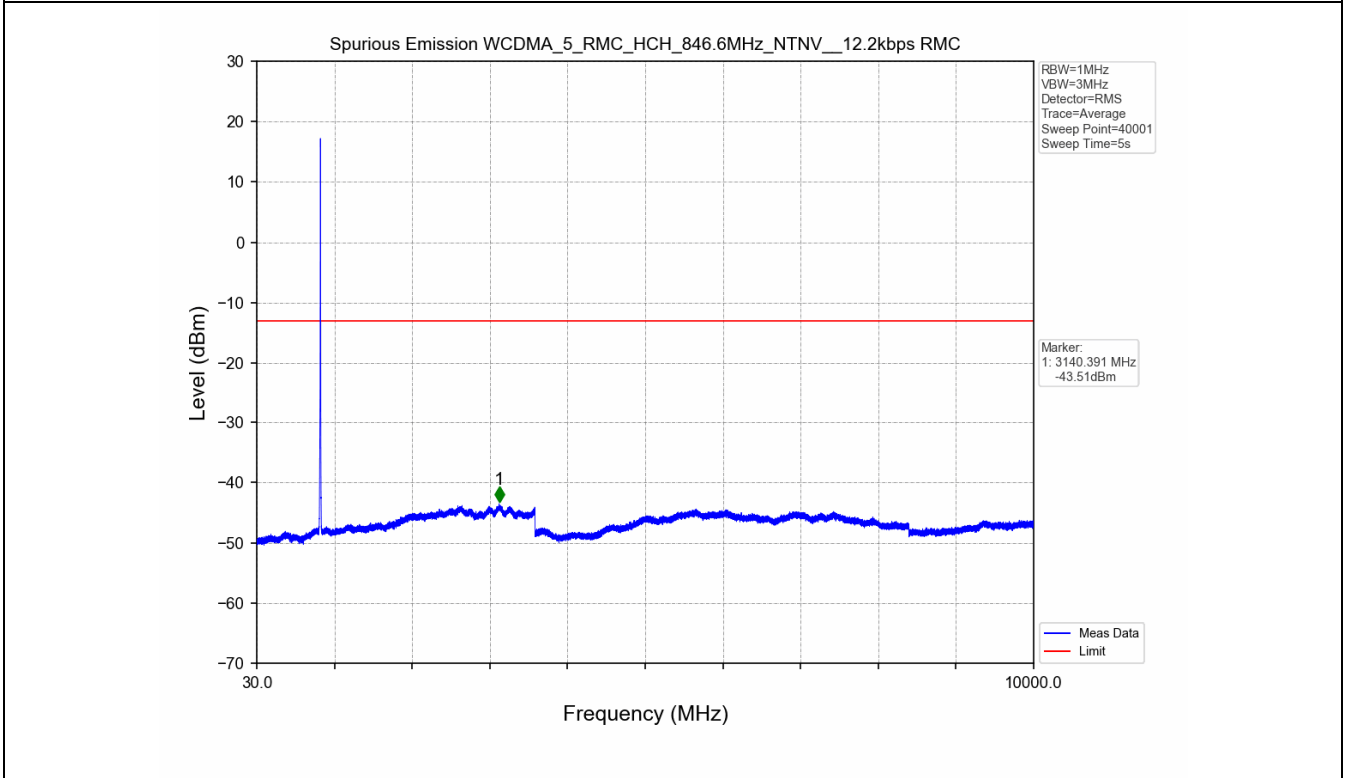
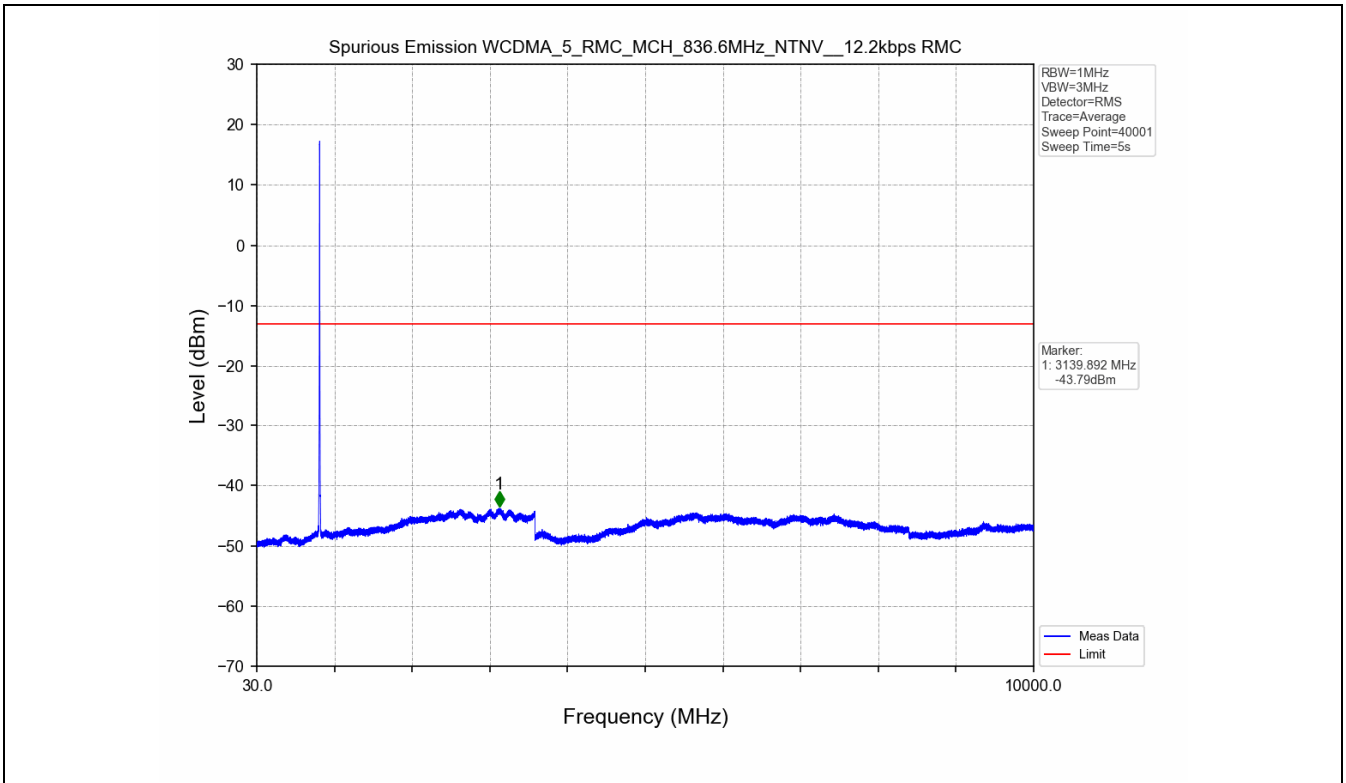


**WCDMA B5**

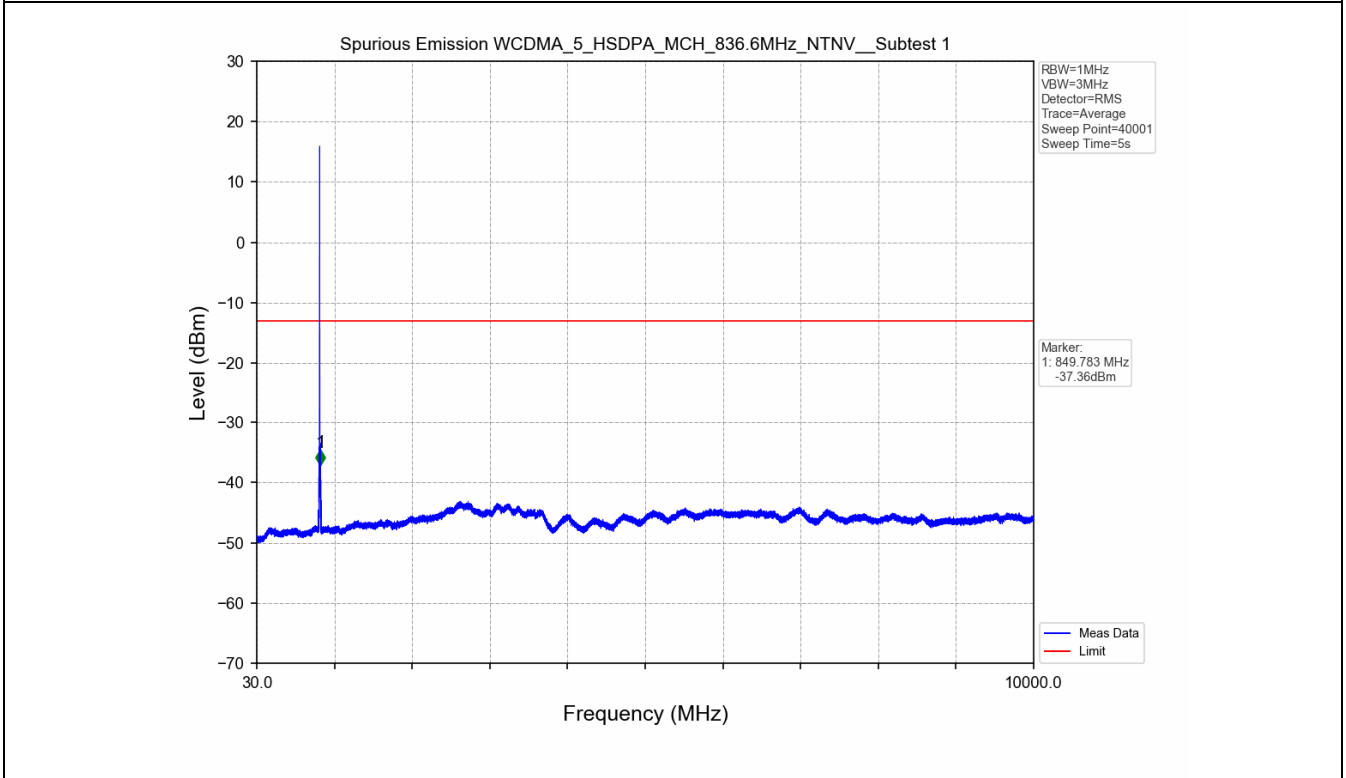
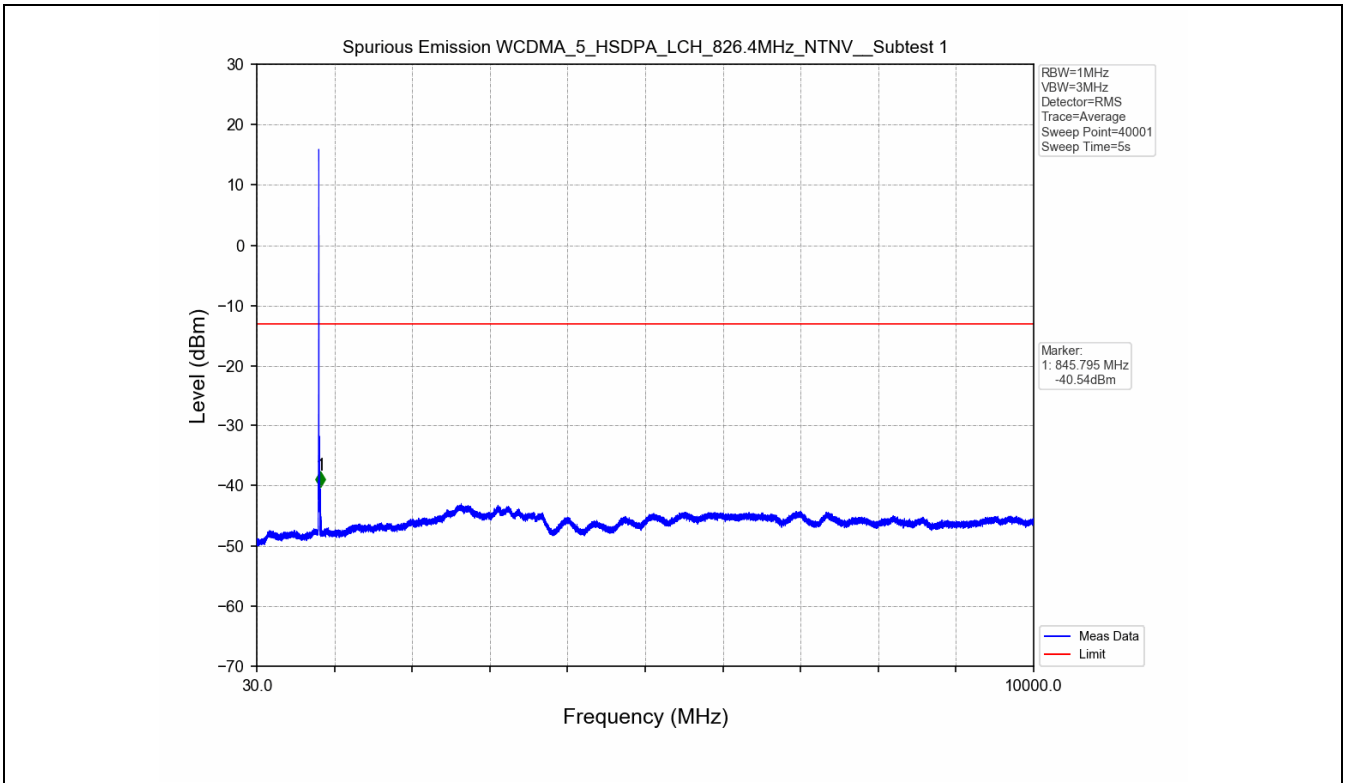


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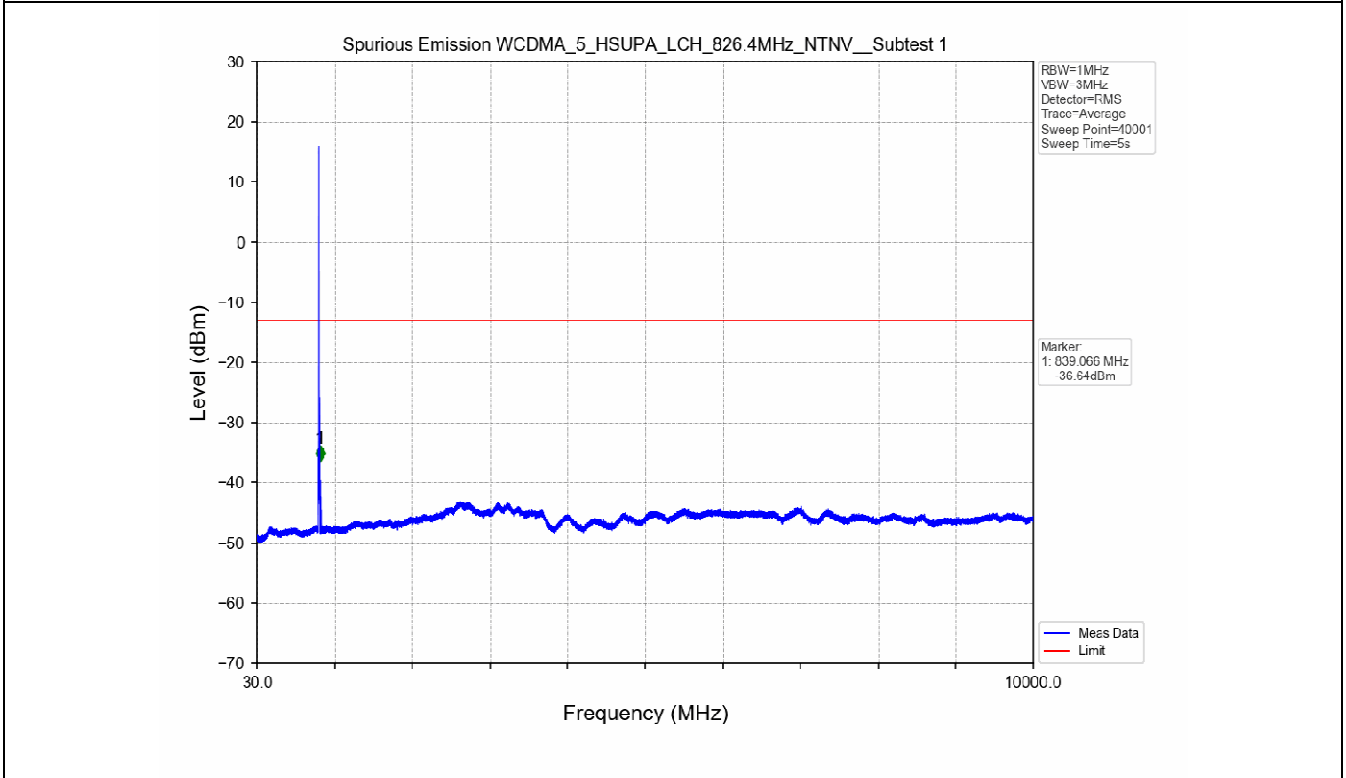
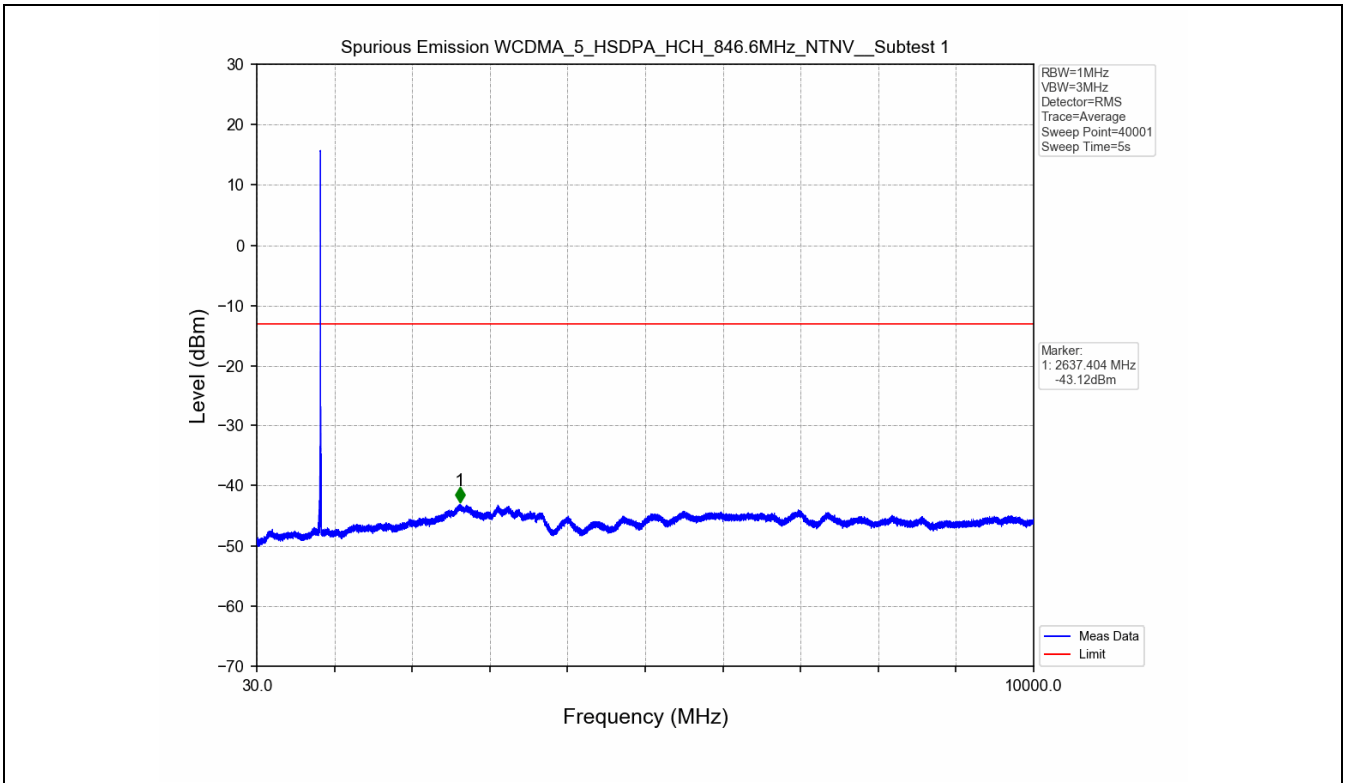




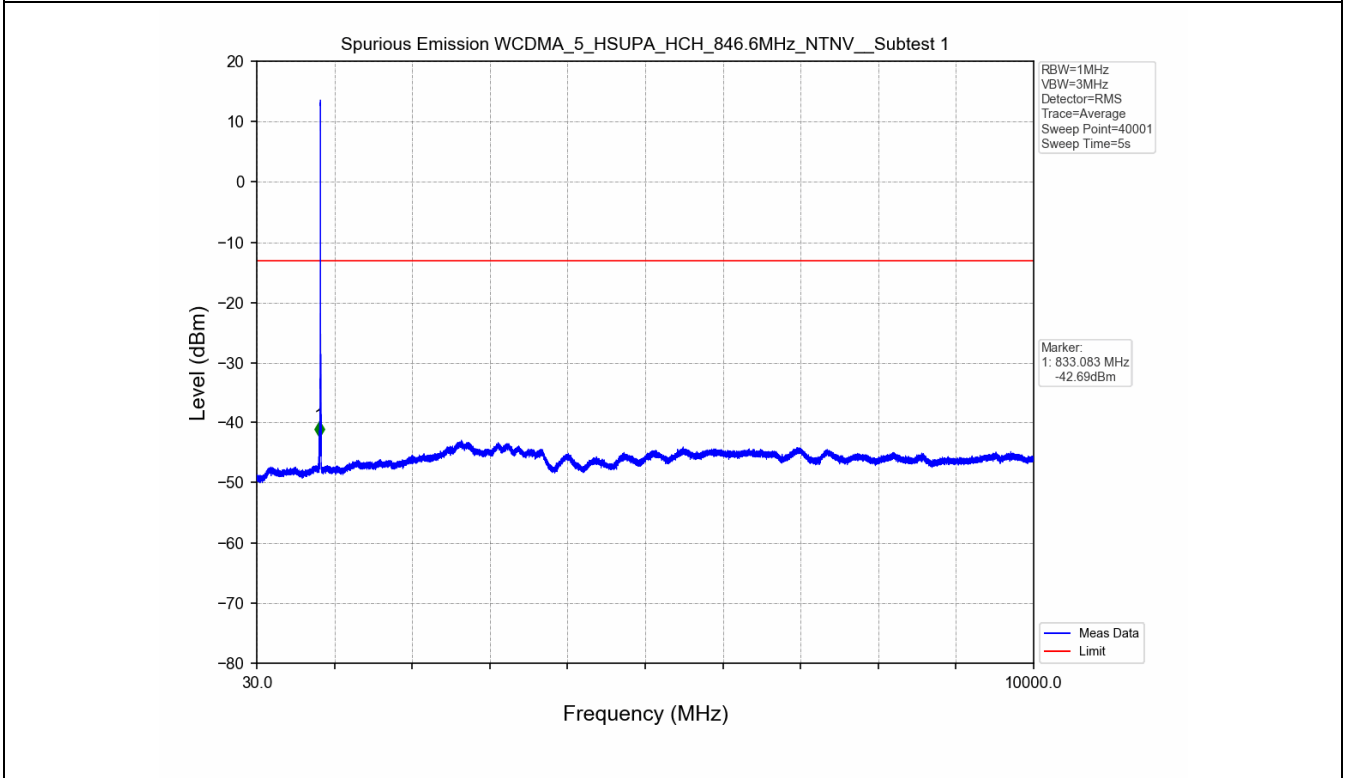
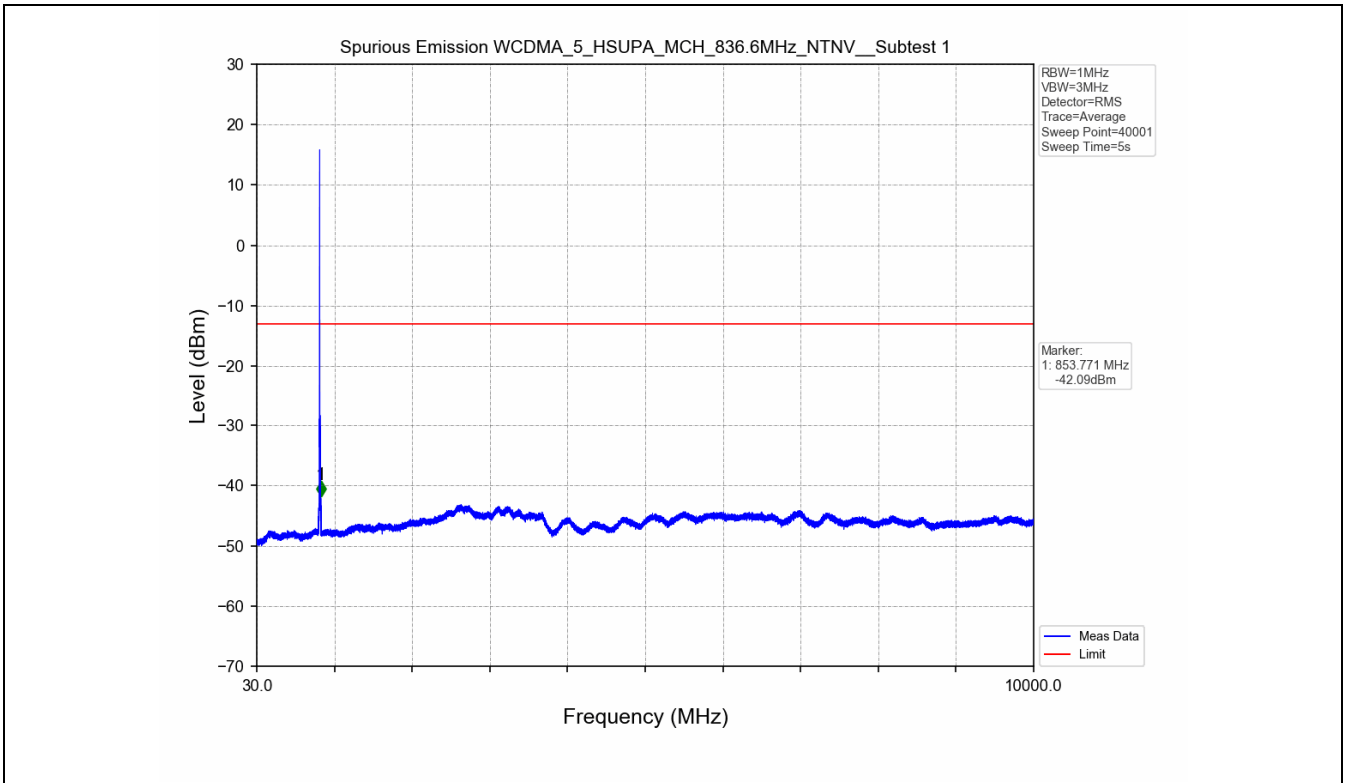
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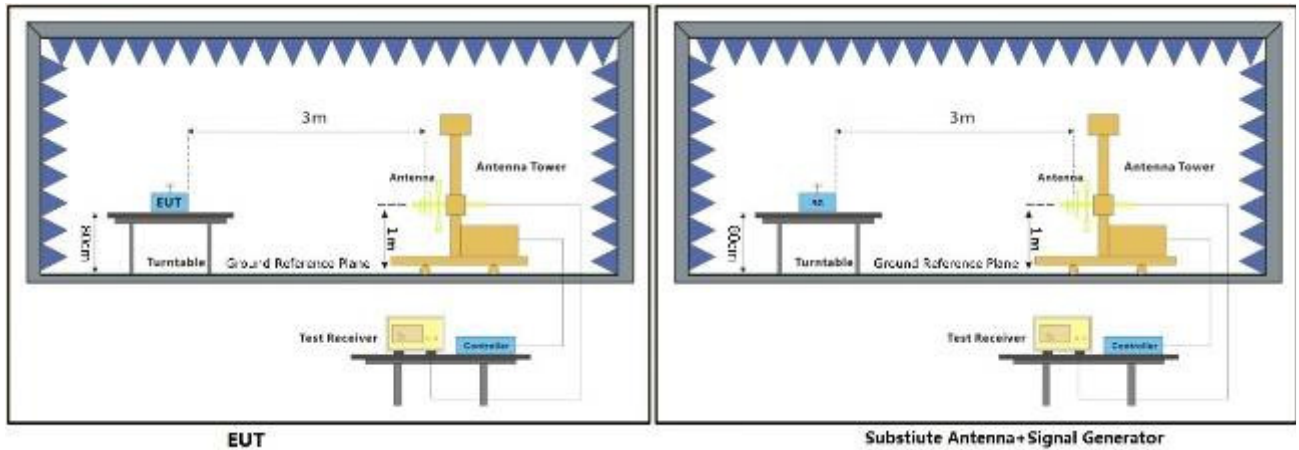
## 6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §22.917, §24.238  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit:  $\leq -13\text{dBm}$

### 6.6.1 E.U.T. Operation

Operating Environment:  
 Temperature: 19.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar  
 Test mode: 20: TX mode\_Keep the EUT in transmitting mode

### 6.6.2 Test Setup Diagram



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 Shenzhen Branch

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### 6.6.3 Measurement Procedure and Data

#### Test Procedure:

- (1) On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



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WCDMA BAND V-Low channel								
Frequency (MHz)	ERP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1652.8	-53.85	-13	-40.85	-57.18	0.52	6	Horizontal	Pass
2479.2	-54.01	-13	-41.01	-57.13	0.53	5.8	Horizontal	Pass
3305.6	-53.05	-13	-40.05	-56.45	0.65	6.2	Horizontal	Pass
1652.8	-55.46	-13	-42.46	-58.79	0.52	6	Vertical	Pass
2479.2	-55.16	-13	-42.16	-58.28	0.53	5.8	Vertical	Pass
3305.6	-54.01	-13	-41.01	-57.41	0.65	6.2	Vertical	Pass

WCDMA BAND V-Middle channel								
Frequency (MHz)	ERP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1672.8	-56.87	-13	-43.87	-60.2	0.52	6	Horizontal	Pass
2509.2	-54.32	-13	-41.32	-56.88	0.59	5.3	Horizontal	Pass
3345.6	-55.26	-13	-42.26	-58.66	0.65	6.2	Horizontal	Pass
1672.8	-55.43	-13	-42.43	-58.76	0.52	6	Vertical	Pass
2509.2	-54.71	-13	-41.71	-57.27	0.59	5.3	Vertical	Pass
3345.6	-53.75	-13	-40.75	-57.15	0.65	6.2	Vertical	Pass

WCDMA BAND V-High channel								
Frequency (MHz)	ERP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1693.2	-54.31	-13	-41.31	-57.64	0.52	6	Horizontal	Pass
2539.8	-54.63	-13	-41.63	-57.19	0.59	5.3	Horizontal	Pass
3386.4	-53.58	-13	-40.58	-56.98	0.65	6.2	Horizontal	Pass
1693.2	-54.98	-13	-41.98	-58.31	0.52	6	Vertical	Pass
2539.8	-54.98	-13	-41.98	-57.54	0.59	5.3	Vertical	Pass
3386.4	-54.07	-13	-41.07	-57.47	0.65	6.2	Vertical	Pass



WCDMA Band II-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3704.8	-54.69	-13	-41.69	-61.58	0.71	7.6	Horizontal	Pass
5557.2	-52.66	-13	-39.66	-62.11	0.85	10.3	Horizontal	Pass
7409.6	-53.98	-13	-40.98	-65.88	1	12.9	Horizontal	Pass
3704.8	-51.83	-13	-38.83	-58.72	0.71	7.6	Vertical	Pass
5557.2	-52.78	-13	-39.78	-62.23	0.85	10.3	Vertical	Pass
7409.6	-52.63	-13	-39.63	-64.53	1	12.9	Vertical	Pass

WCDMA Band II-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-54.43	-13	-41.43	-61.32	0.71	7.6	Horizontal	Pass
5640	-53.98	-13	-40.98	-63.43	0.85	10.3	Horizontal	Pass
7520	-51.83	-13	-38.83	-64.04	0.99	13.2	Horizontal	Pass
3760	-51.77	-13	-38.77	-58.66	0.71	7.6	Vertical	Pass
5640	-53.37	-13	-40.37	-62.82	0.85	10.3	Vertical	Pass
7520	-51.46	-13	-38.46	-63.67	0.99	13.2	Vertical	Pass

WCDMA Band II-High channel								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3815.2	-54.57	-13	-41.57	-61.46	0.71	7.6	Horizontal	Pass
5722.8	-53.26	-13	-40.26	-62.71	0.85	10.3	Horizontal	Pass
7630.4	-51.91	-13	-38.91	-64.12	0.99	13.2	Horizontal	Pass
3815.2	-52.63	-13	-39.63	-59.52	0.71	7.6	Vertical	Pass
5722.8	-52.9	-13	-39.9	-62.35	0.85	10.3	Vertical	Pass
7630.4	-53.77	-13	-40.77	-65.98	0.99	13.2	Vertical	Pass



CDMA BC0-Low channel								
Frequency (MHz)	ERP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1649.4	-56.31	-13	-43.31	-59.64	0.52	6	Horizontal	Pass
2474.1	-55.26	-13	-42.26	-58.38	0.53	5.8	Horizontal	Pass
3298.8	-56.21	-13	-43.21	-59.61	0.65	6.2	Horizontal	Pass
1649.4	-56.62	-13	-43.62	-59.95	0.52	6	Vertical	Pass
2474.1	-56.51	-13	-43.51	-59.63	0.53	5.8	Vertical	Pass
3298.8	-54.59	-13	-41.59	-57.99	0.65	6.2	Vertical	Pass

CDMA BC0-Middle channel								
Frequency (MHz)	ERP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1673.04	-54.19	-13	-41.19	-57.52	0.52	6	Horizontal	Pass
2509.56	-56.36	-13	-43.36	-58.92	0.59	5.3	Horizontal	Pass
3346.08	-54.9	-13	-41.9	-58.3	0.65	6.2	Horizontal	Pass
1673.04	-55.35	-13	-42.35	-58.68	0.52	6	Vertical	Pass
2509.56	-54.23	-13	-41.23	-56.79	0.59	5.3	Vertical	Pass
3346.08	-54.81	-13	-41.81	-58.21	0.65	6.2	Vertical	Pass

CDMA BC0-High channel								
Frequency (MHz)	ERP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1696.62	-56.48	-13	-43.48	-59.81	0.52	6	Horizontal	Pass
2544.93	-56.93	-13	-43.93	-59.49	0.59	5.3	Horizontal	Pass
3393.24	-56.91	-13	-43.91	-60.31	0.65	6.2	Horizontal	Pass
1696.62	-56.24	-13	-43.24	-59.57	0.52	6	Vertical	Pass
2544.93	-54.16	-13	-41.16	-56.72	0.59	5.3	Vertical	Pass
3393.24	-55.52	-13	-42.52	-58.92	0.65	6.2	Vertical	Pass

**Note:**

All modes have been tested and we found RMC for WCDMA, SO2 for CDMA Test mode has the worst test result. Only record the worst test result.



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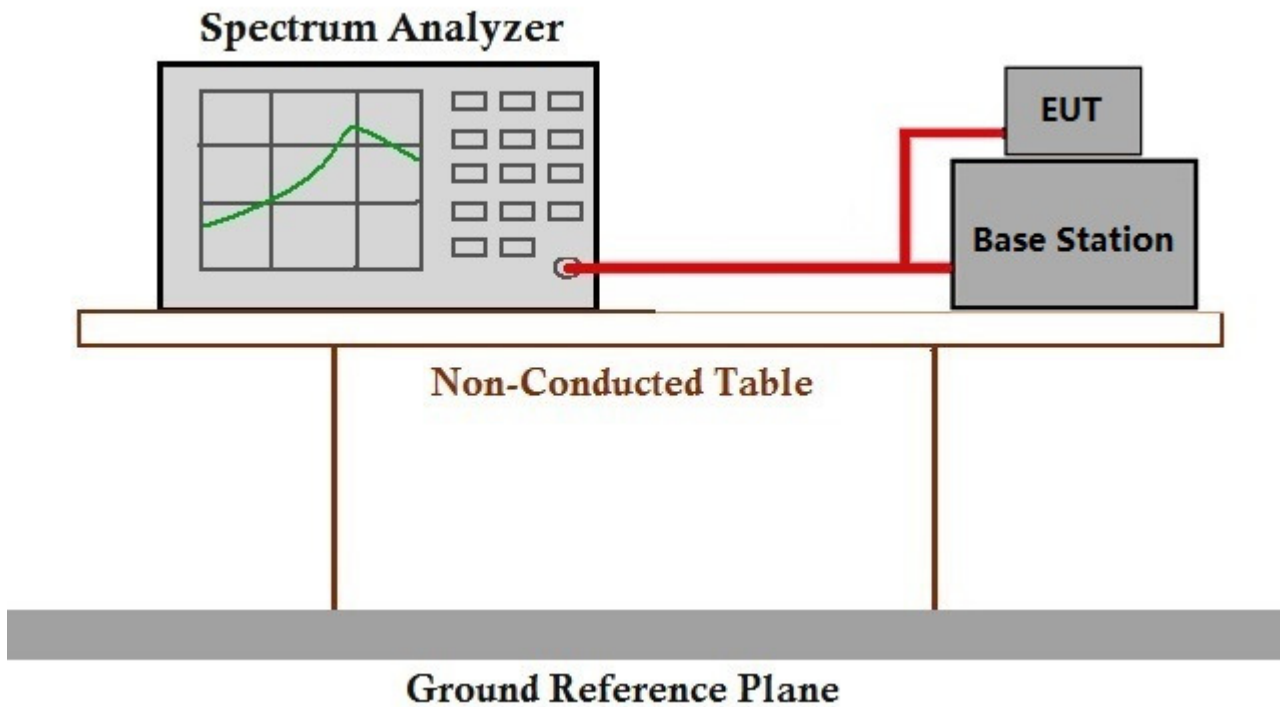
**6.7 Frequency stability**

Test Requirement: §2.1055, §22.355, §24.235  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit:  $\leq \pm 2.5\text{ppm}$ .

**6.7.1 E.U.T. Operation**

Operating Environment:  
 Temperature: 19.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar  
 Test mode: 20: TX mode\_Keep the EUT in transmitting mode

**6.7.2 Test Setup Diagram**



**6.7.3 Measurement Data**



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Test Band: WCDMA B2 (Frequency Error VS. Voltage)										
Test Mode	Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NT	LV	1.7452	-2.4176	-8.5902	0.0009	-0.0013	-0.0045	2.50	PASS
		NV	3.2544	-1.7667	-10.2925	0.0018	-0.0009	-0.0054	2.50	PASS
		HV	2.1529	-1.1230	-10.1566	0.0012	-0.0006	-0.0053	2.50	PASS
HSDPA	NT	LV	1.0800	-1.8883	-7.3099	0.0006	-0.0010	-0.0038	2.50	PASS
		NV	1.0729	-2.0671	-8.5545	0.0006	-0.0011	-0.0045	2.50	PASS
		HV	0.8154	-1.9813	-6.1655	0.0004	-0.0011	-0.0032	2.50	PASS
RMC	NT	LV	0.0501	-1.1587	-4.1771	0.0000	-0.0006	-0.0022	2.50	PASS
		NV	-0.2718	-1.4949	-3.9411	-0.0001	-0.0008	-0.0021	2.50	PASS
		HV	0.0858	-1.1873	-4.5061	0.0000	-0.0006	-0.0024	2.50	PASS

Test Band: WCDMA B2 (Frequency Error VS. Temperature)										
Test Mode	Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NV	-30.00	2.7394	-2.3389	-9.6631	0.0015	-0.0012	-0.0051	2.50	PASS
		-20.00	0.6938	-2.6608	-7.9823	0.0004	-0.0014	-0.0042	2.50	PASS
		-10.00	2.9612	-2.8253	-7.9465	0.0016	-0.0015	-0.0042	2.50	PASS
		0.00	1.7095	-2.1100	-8.0609	0.0009	-0.0011	-0.0042	2.50	PASS
		10.00	1.1945	-3.0828	-7.5674	0.0006	-0.0016	-0.0040	2.50	PASS
		20.00	1.8311	-1.4663	-9.7275	0.0010	-0.0008	-0.0051	2.50	PASS
		30.00	3.1328	-2.5606	-9.4342	0.0017	-0.0014	-0.0049	2.50	PASS
		40.00	1.7309	-3.4547	-7.9322	0.0009	-0.0018	-0.0042	2.50	PASS
		50.00	1.5664	-2.1672	-8.2183	0.0008	-0.0012	-0.0043	2.50	PASS
HSDPA	NV	-30.00	0.6223	-3.5048	-5.6148	0.0003	-0.0019	-0.0029	2.50	PASS
		-20.00	1.7452	-3.2043	-6.4945	0.0009	-0.0017	-0.0034	2.50	PASS
		-10.00	0.8512	-2.5749	-6.6662	0.0005	-0.0014	-0.0035	2.50	PASS
		0.00	1.1444	-2.4176	-6.0940	0.0006	-0.0013	-0.0032	2.50	PASS
		10.00	3.0971	-4.0412	-7.3171	0.0017	-0.0021	-0.0038	2.50	PASS
		20.00	2.3746	-3.8552	-7.4744	0.0013	-0.0021	-0.0039	2.50	PASS
		30.00	1.8168	-2.7323	-7.2598	0.0010	-0.0015	-0.0038	2.50	PASS
		40.00	2.7251	-2.8968	-7.3099	0.0015	-0.0015	-0.0038	2.50	PASS
		50.00	1.2159	-4.3416	-7.9036	0.0007	-0.0023	-0.0041	2.50	PASS
RMC	NV	-30.00	0.0143	-0.9942	-4.0412	0.0000	-0.0005	-0.0021	2.50	PASS
		-20.00	-0.2718	-1.2374	-4.3058	-0.0001	-0.0007	-0.0023	2.50	PASS
		-10.00	-0.1931	-1.1230	-4.1127	-0.0001	-0.0006	-0.0022	2.50	PASS
		0.00	0.4148	-1.1516	-4.4918	0.0002	-0.0006	-0.0024	2.50	PASS
		10.00	0.2575	-1.1873	-4.0698	0.0001	-0.0006	-0.0021	2.50	PASS



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		20.00	0.6151	-1.1015	-4.6420	0.0003	-0.0006	-0.0024	2.50	PASS
		30.00	0.0787	-1.4305	-4.1699	0.0000	-0.0008	-0.0022	2.50	PASS
		40.00	0.7224	-1.0085	-4.6420	0.0004	-0.0005	-0.0024	2.50	PASS
		50.00	0.7010	-0.6151	-4.0197	0.0004	-0.0003	-0.0021	2.50	PASS

Test Band: WCDMA B5 (Frequency Error VS. Voltage)										
Test Mode	Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NT	LV	-0.7653	-2.8253	-7.2956	-0.0009	-0.0034	-0.0086	2.50	PASS
		NV	0.0429	-4.0269	-7.4458	0.0001	-0.0048	-0.0088	2.50	PASS
		HV	0.0572	-2.7466	-5.6720	0.0001	-0.0033	-0.0067	2.50	PASS
HSDPA	NT	LV	-2.5463	-2.6536	-7.5889	-0.0031	-0.0032	-0.0090	2.50	PASS
		NV	-2.7537	-2.7537	-5.3787	-0.0033	-0.0033	-0.0064	2.50	PASS
		HV	-2.2388	-2.7752	-5.8007	-0.0027	-0.0033	-0.0069	2.50	PASS
RMC	NT	LV	0.5794	-0.0715	-1.2088	0.0007	-0.0001	-0.0014	2.50	PASS
		NV	0.7296	-0.1788	-0.9084	0.0009	-0.0002	-0.0011	2.50	PASS
		HV	0.7153	-0.0501	-1.1516	0.0009	-0.0001	-0.0014	2.50	PASS

Test Band: WCDMA B5 (Frequency Error VS. Temperature)										
Test Mode	Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NV	-30.00	-0.0286	-4.0483	-5.7435	0.0000	-0.0048	-0.0068	2.50	PASS
		-20.00	-0.0143	-2.9182	-6.8879	0.0000	-0.0035	-0.0081	2.50	PASS
		-10.00	-0.0429	-2.9254	-6.9737	-0.0001	-0.0035	-0.0082	2.50	PASS
		0.00	-0.8798	-4.2343	-7.7319	-0.0011	-0.0051	-0.0091	2.50	PASS
		10.00	-0.8368	-4.1986	-5.6720	-0.0010	-0.0050	-0.0067	2.50	PASS
		20.00	-0.0286	-2.7752	-5.6863	0.0000	-0.0033	-0.0067	2.50	PASS
		30.00	-0.0858	-2.9969	-5.6005	-0.0001	-0.0036	-0.0066	2.50	PASS
		40.00	-0.2003	-2.9898	-5.8293	-0.0002	-0.0036	-0.0069	2.50	PASS
		50.00	0.3219	-3.3116	-5.9223	0.0004	-0.0040	-0.0070	2.50	PASS
HSDPA	NV	-30.00	-0.9942	-3.9697	-7.3671	-0.0012	-0.0047	-0.0087	2.50	PASS
		-20.00	-0.4506	-2.9039	-5.6076	-0.0005	-0.0035	-0.0066	2.50	PASS
		-10.00	0.4578	-4.0269	-5.8079	0.0006	-0.0048	-0.0069	2.50	PASS
		0.00	0.3934	-3.9268	-5.5289	0.0005	-0.0047	-0.0065	2.50	PASS
		10.00	0.3576	-2.9111	-7.3528	0.0004	-0.0035	-0.0087	2.50	PASS
		20.00	0.4935	-4.0698	-7.4458	0.0006	-0.0049	-0.0088	2.50	PASS
		30.00	0.0572	-2.6679	-7.1311	0.0001	-0.0032	-0.0084	2.50	PASS
		40.00	-0.1001	-2.9969	-7.6032	-0.0001	-0.0036	-0.0090	2.50	PASS
		50.00	0.2503	-2.7752	-5.5933	0.0003	-0.0033	-0.0066	2.50	PASS
RMC	NV	-30.00	0.5507	0.0072	-1.0443	0.0007	0.0000	-0.0012	2.50	PASS



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		-20.00	0.3004	0.0644	-1.0943	0.0004	0.0001	-0.0013	2.50	PASS
		-10.00	0.4506	-0.3004	-1.0443	0.0005	-0.0004	-0.0012	2.50	PASS
		0.00	0.5150	0.0000	-0.9942	0.0006	0.0000	-0.0012	2.50	PASS
		10.00	0.6652	-0.2360	-0.8368	0.0008	-0.0003	-0.0010	2.50	PASS
		20.00	1.0371	0.1788	-0.8225	0.0013	0.0002	-0.0010	2.50	PASS
		30.00	0.8154	-0.1216	-1.2088	0.0010	-0.0001	-0.0014	2.50	PASS
		40.00	0.9012	-0.0286	-1.0371	0.0011	0.0000	-0.0012	2.50	PASS
		50.00	0.9084	-0.0787	-1.3518	0.0011	-0.0001	-0.0016	2.50	PASS

CDMA BC0

Test Band: CDMA BC0 (Frequency Error VS. Voltage)										
Test Mode	Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
SO2	NT	LV	-9.6179	1.4001	4.9906	-0.0117	0.0017	0.0060	2.5	PASS
		NV	9.0748	7.7753	6.8355	0.0110	0.0093	0.0082	2.5	PASS
		HV	3.1301	-3.2546	9.4495	0.0038	-0.0039	0.0113	2.5	PASS

Test Band: CDMA BC0 (Frequency Error VS. Temperature)										
Test Mode	Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
SO2	NV	-30	7.2314	9.4980	9.6413	0.0088	0.0112	0.0115	2.5	PASS
		-20	-2.5209	-5.4600	8.7057	-0.0031	-0.0065	0.0104	2.5	PASS
		-10	4.5215	-8.1845	-8.2343	0.0055	-0.0098	-0.0098	2.5	PASS
		0	9.8514	-8.4706	8.9646	0.0119	-0.0100	0.0107	2.5	PASS
		10	-9.0274	8.5463	-3.6740	-0.0109	0.0102	-0.0044	2.5	PASS
		20	3.4916	-2.4277	6.4733	0.0042	-0.0029	0.0077	2.5	PASS
		30	-1.5326	3.7691	9.3648	-0.0019	0.0044	0.0112	2.5	PASS
		40	-3.7865	5.7285	2.9307	-0.0046	0.0068	0.0035	2.5	PASS
		50	-8.5689	0.3837	-7.4164	-0.0104	0.0005	-0.0089	2.5	PASS



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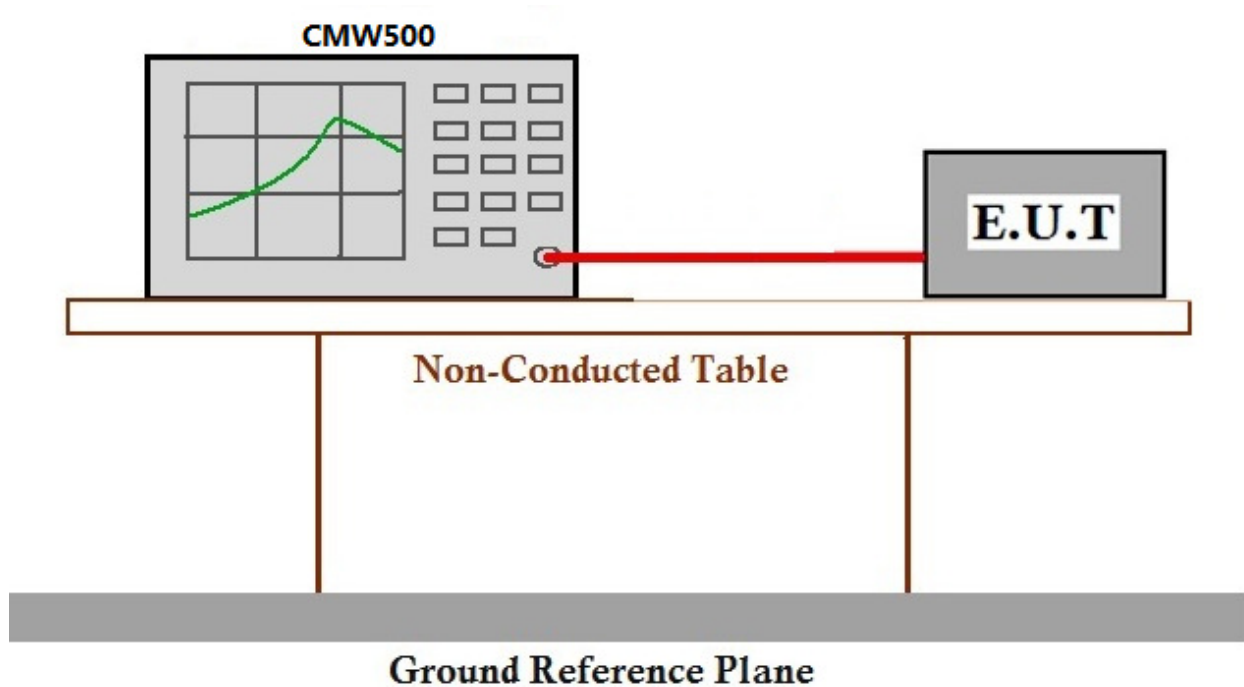
**6.8 Modulation Characteristics**

Test Requirement: §2.1047  
 Test Method: ANSI C63.26, KDB 971 168 D01 v03  
 Limit: Digital modulation

**6.8.1 E.U.T. Operation**

Operating Environment:  
 Temperature: 19.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar  
 Test mode: 20: TX mode\_Keep the EUT in transmitting mode

**6.8.2 Test Setup Diagram**



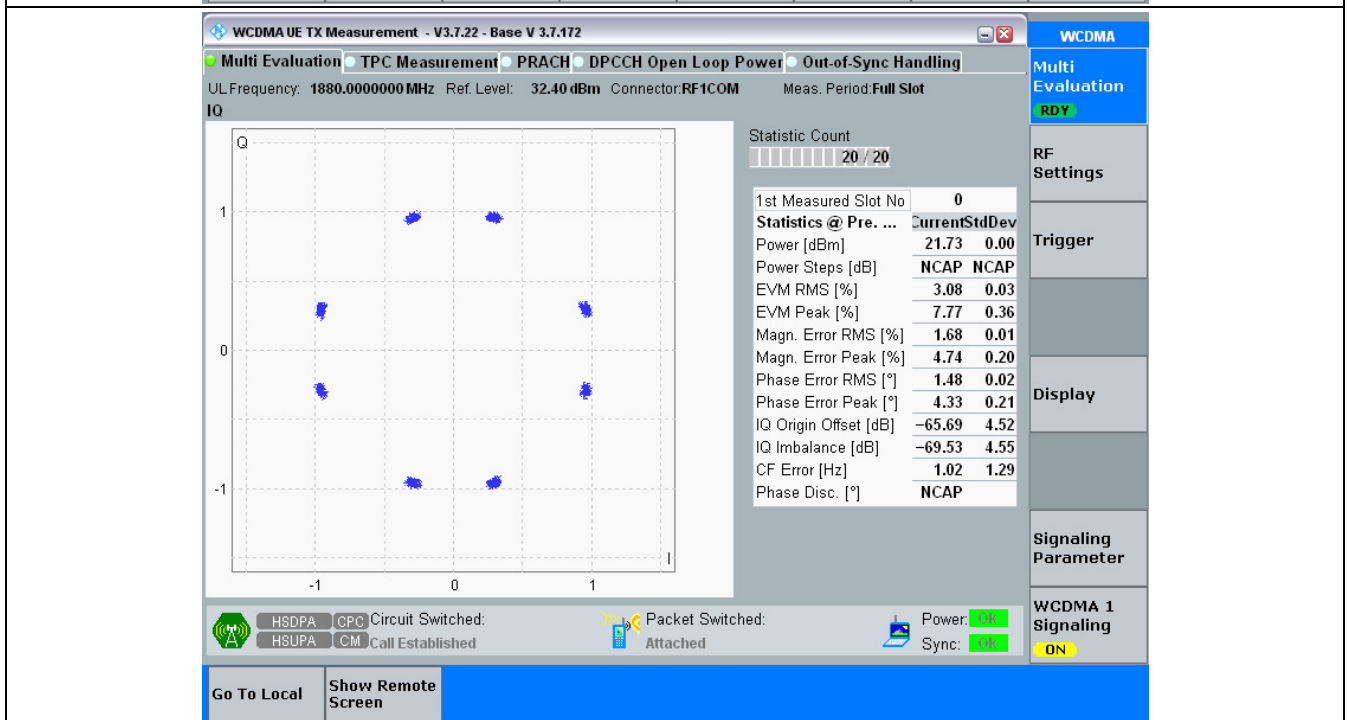
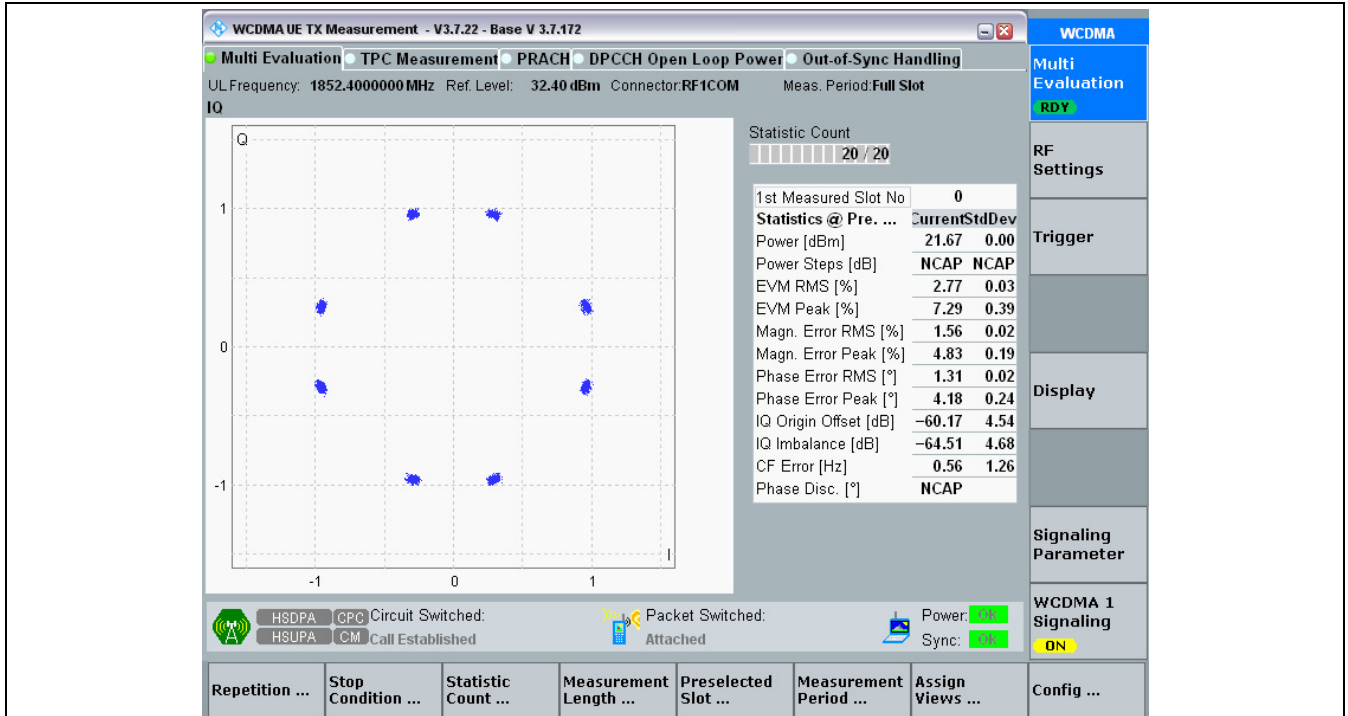
**6.8.3 Measurement Data**

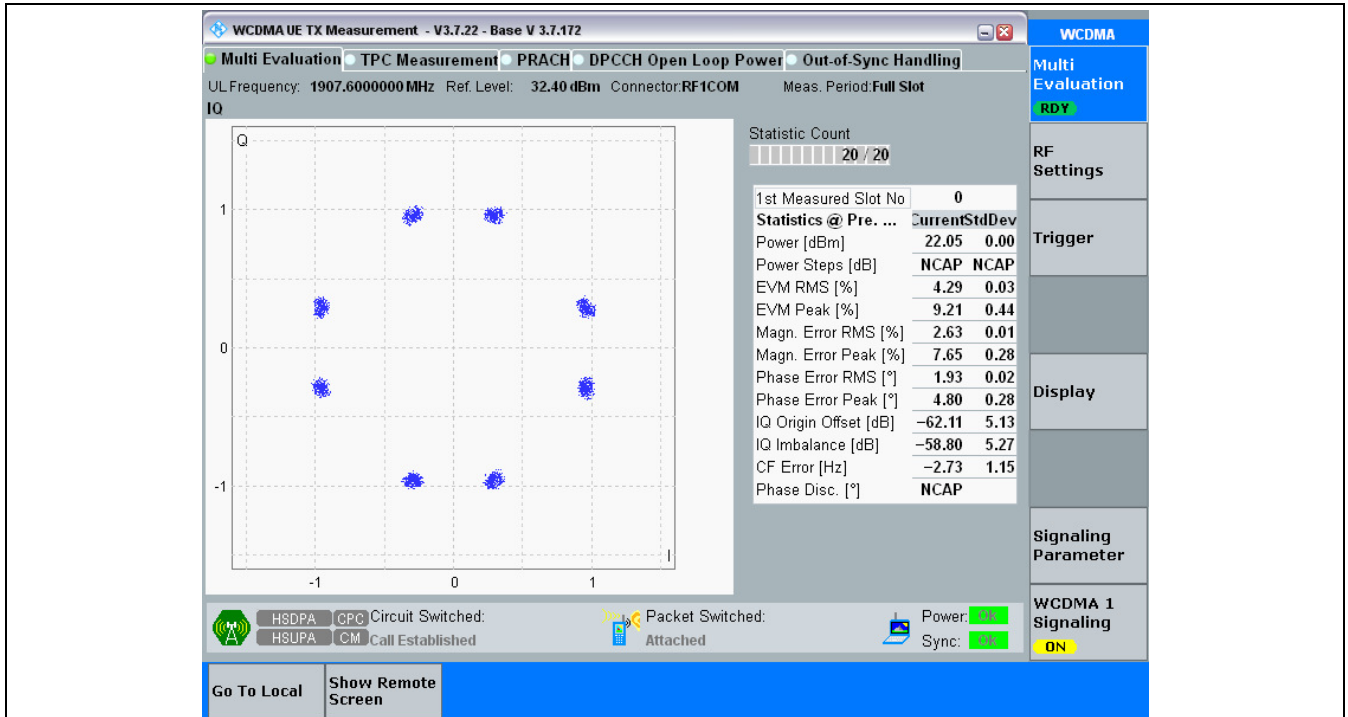


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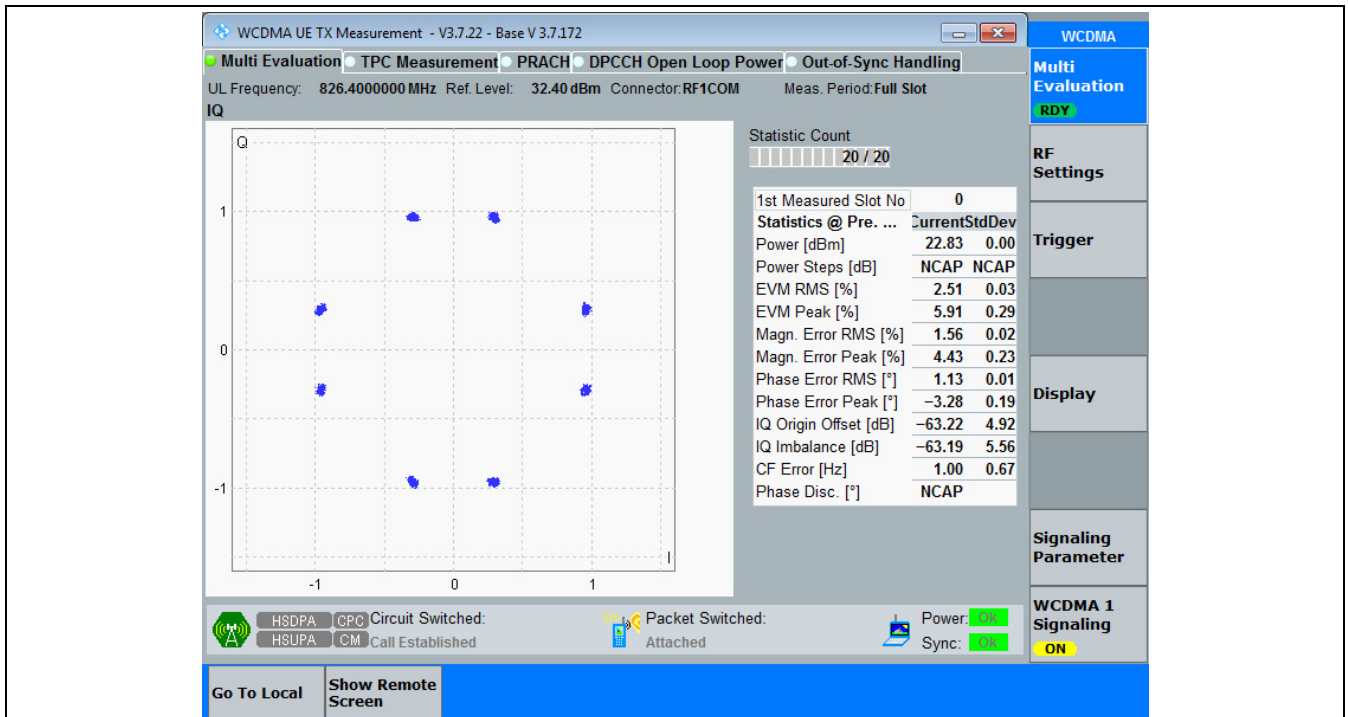


WCDMA B2

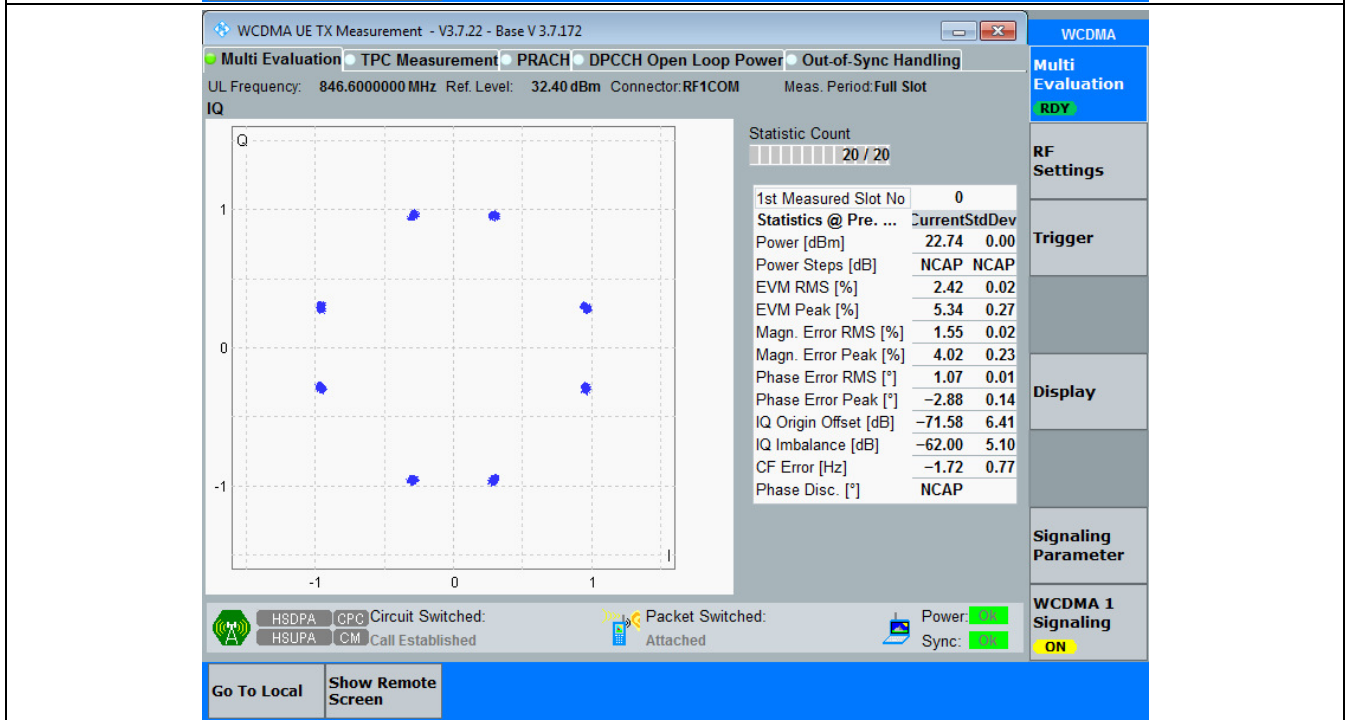
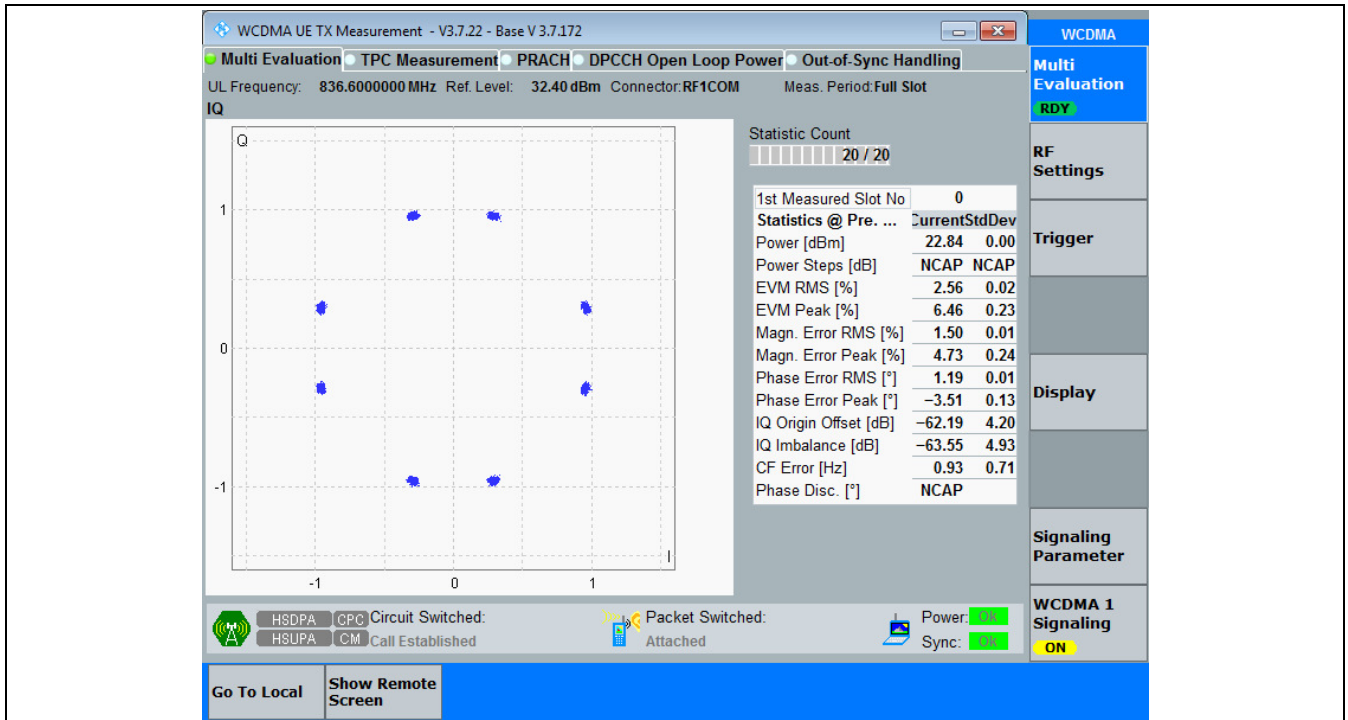




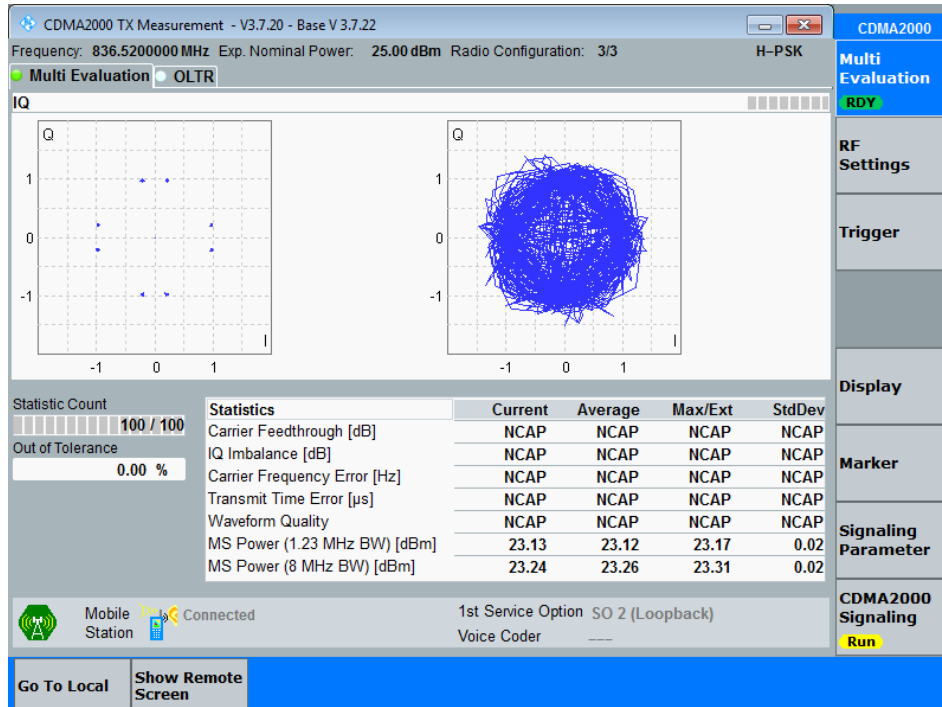
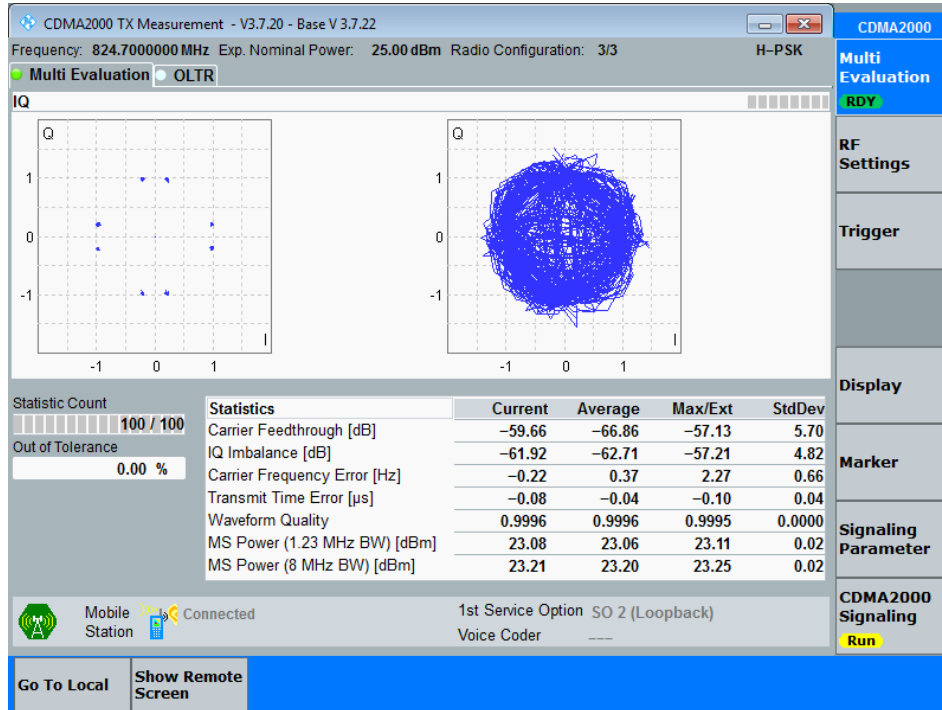
WCDMA B5



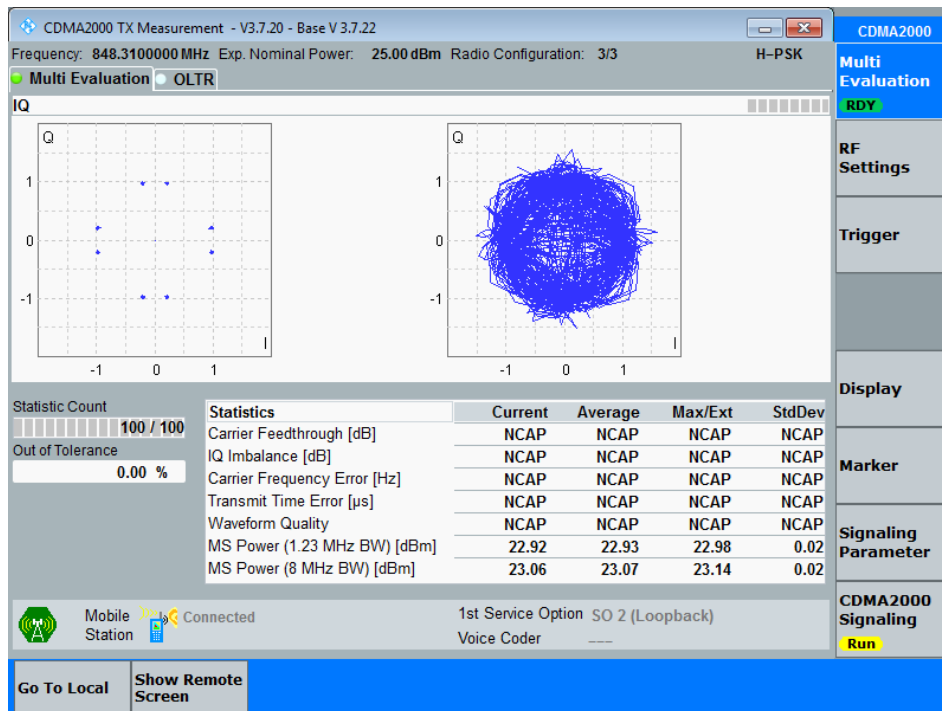
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BC0



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- End of the Report -



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