

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220700026607

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TEST REPORT

Application No.: FYCR2207000266AT
Applicant: PAX Technology Limited
Address of Applicant: Room 2416, 24/F, Sun Hung Kai Centre, 30 Harbour, Hong Kong, China
Manufacturer: PAX Computer Technology(Shenzhen) Co., Ltd.
Address of Manufacturer: 401 and 402, Building 3, Shenzhen Software Park, Nanshan District, Shenzhen City, Guangdong Province, P.R.C
Factory: Guangzhou PAX Computer Technology Co., Ltd
Address of Factory: No.2 Bldg, No.113 Jinyang Road, Hualong Town, Panyu, Guangzhou, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Mobile Payment Terminal
Model No.: D190
Trade Mark: PAX
FCC ID: V5PD190LBW
Standard(s) : 47 CFR Part 2
 47 CFR Part 22 subpart H
 47 CFR Part 24 subpart E
 47 CFR Part 27 subpart C
Date of Receipt: 2022-07-06
Date of Test: 2022-07-13 to 2022-09-09
Date of Issue: 2022-09-14

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Winkey Wang
EMC Technical Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-09-14		Original

Authorized for issue by:				
		Tree Zhan		
		Tree Zhan/Project Engineer		
		Winkey Wang		
		Winkey Wang/Reviewer		



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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 §27.50(d)	ERP≤7W(GSM850/WCDMA band V) EIRP≤2W(PCS1900/WCDMA band II) EIRP≤1W(WCDMA Band IV)	PASS
Peak-Average Ratio	§22.913 §24.232 §27.50(d)	≤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 §27.53(h)	≤ -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 §27.53(h)	≤ -13dBm	PASS
Field strength of spurious radiation	§2.1051 §22.917 §24.238 §27.53(h)	≤ -13dBm	PASS
Frequency stability	§2.1055 §22.355 §24.235 §27.54	≤ ±2.5ppm.	PASS



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC3.7V by li-ion battery(1900mAh) Recharged by AC/DC power adapter Adapter M/N:GLH50D1000HW Adapter input: 100-240VAC, 50/60Hz, 0.40A Adapter output: DC5V/1A
Cable(s):	USB type C cable: 1m shielded cable without ferrite core
Sample Type:	Portable production
Support Network:	GPRS, EGPRS, RMC, HSDPA, HSUPA
Operation Frequency Band:	GSM850/PCS1900/WCDMA Band II/IV/V
Modulation Type:	GMSK for GPRS/EGPRS 8PSK for EGPRS QPSK for WCDMA
GPRS Class:	12
EGPRS Class:	12
UMTS Power Class:	Level 3
Antenna Type:	PIFA antenna
Antenna Gain:	GSM850: -0.21dBi, PCS1900: 1.42dBi WCDMA B5: -0.21dBi, B2: 1.42dBi, B4: 2.04dBi
SIM Card:	This device has dual SIM Card sockets. Both the SIM sockets have been tested. SIM1 was worst case, only record SIM1.



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4.2 Test Frequency

Test mode:	TX	RF Channel		
		Low (L)	Middle (M)	High (H)
GSM850	TX	Channel 128	Channel 190	Channel 251
		824.2MHz	836.6 MHz	848.8 MHz
Test mode:	TX	RF Channel		
		Low (L)	Middle (M)	High (H)
PCS1900	TX	Channel 512	Channel 661	Channel 810
		1850.2MHz	1880.0 MHz	1909.8 MHz
Test Mode	TX	RF Channel		
		Low(L)	Middle (M)	High (H)
WCDMA Band V	TX	Channel 4132	Channel 4183	Channel 4233
		826.4 MHz	836.6 MHz	846.6 MHz
Test Mode	TX	RF Channel		
		Low(L)	Middle (M)	High (H)
WCDMA Band IV	TX	Channel 1312	Channel 1413	Channel 1513
		1712.4 MHz	1732.6 MHz	1752.6 MHz
Test Mode	TX	RF Channel		
		Low(L)	Middle (M)	High (H)
WCDMA Band II	TX	Channel 9262	Channel 9400	Channel 9538
		1852.4 MHz	1880.0 MHz	1907.6 MHz

4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Temperature:	TL	-30°C
	TN	+20°C
	TH	+50°C
Voltage:	VL	3.4 V
	VN	3.7 V
	VH	4.2 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	$\pm 5.4 \times 10^{-8}$
2	Duty cycle	$\pm 0.3\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.8\text{dB}$
5	RF power density	$\pm 0.4\text{dB}$
6	Conducted Spurious emissions	$\pm 2.7\text{dB}$
7	Radiated Spurious emission test	$\pm 3.1\text{dB}$ (Below 1GHz)
		$\pm 4.4\text{dB}$ (Above 1GHz)
8	Temperature test	$\pm 1^\circ\text{C}$
9	Humidity test	$\pm 3\%$
10	Supply voltages	$\pm 1.5\%$
11	Time	$\pm 3\%$



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4.6 Test Location

All tests were performed at:

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Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 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. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC –Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

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
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2022/7/12	2023/7/11
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2022/03/29	2023/03/28
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2022/7/12	2023/7/11

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2022/7/12	2023/7/11
Low Noise Amplifier	CLAVIO	BDLNA-0118-352810	SEM005-05	2022/7/12	2023/7/11
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2019/08/08	2022/08/07
				2022/08/07	2025/08/06
Signal Generator(9kHz-40GHz)	N5173B	MY53270267	Agilent	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2022/7/12	2023/7/11
Low Noise Amplifier	CLAVIO	BDLNA-0118-352810	SEM005-05	2022/7/12	2023/7/11
Pre-amplifier	Compliance	PAP-2640-50	SEM005-08	2022/7/12	2023/7/11



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	Directions Systems Inc.				
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2022/7/12	2023/7/11
Substitution Antenna	ETS-Lindgren	3142C	SEM003-01	2020/06/26	2023/06/25
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2022/03/29	2023/03/28

General used equipment

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022/7/12	2023/7/11
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022/7/12	2023/7/11
Barometer	DUMAI	DYM3	SEM002-24	2022/7/12	2023/7/11



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6 Radio Spectrum Matter Test Results

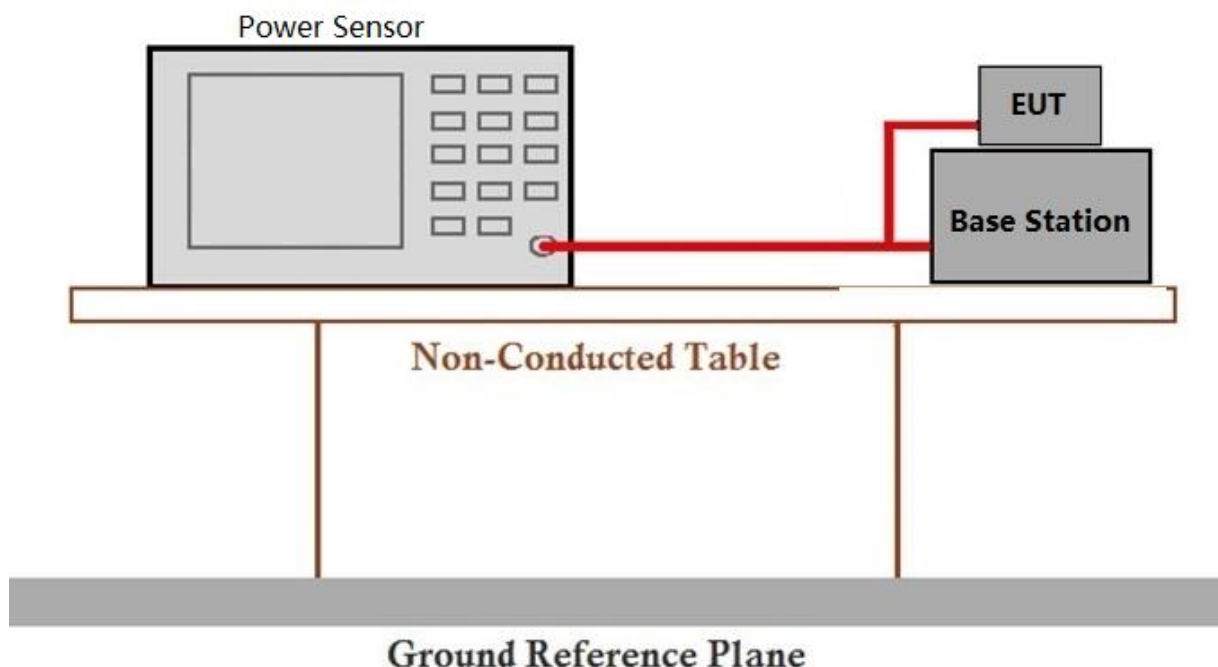
6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §22.913, §24.232, §27.50(d)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: ERP≤7W(GSM850/WCDMA BAND V)
 EIRP≤2W(PCS1900/WCDMA BAND II)
 EIRP≤1W(WCDMA Band IV)

6.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 24 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar
 Test mode: 30:TX mode_Keep the EUT in transmitting mode

6.1.2 Test Setup Diagram



6.1.3 Measurement Data



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Band: GSM850								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	32.71	-0.21	30.35	<=38.45	Pass
		2 TX Slots	824.2	32.41	-0.21	30.05	<=38.45	Pass
		3 TX Slots	824.2	29.97	-0.21	27.61	<=38.45	Pass
		4 TX Slots	824.2	28.71	-0.21	26.35	<=38.45	Pass
		1 TX Slot	836.6	32.74	-0.21	30.38	<=38.45	Pass
		2 TX Slots	836.6	32.62	-0.21	30.26	<=38.45	Pass
		3 TX Slots	836.6	30.08	-0.21	27.72	<=38.45	Pass
		4 TX Slots	836.6	28.80	-0.21	26.44	<=38.45	Pass
		1 TX Slot	848.8	32.47	-0.21	30.11	<=38.45	Pass
		2 TX Slots	848.8	32.24	-0.21	29.88	<=38.45	Pass
		3 TX Slots	848.8	29.72	-0.21	27.36	<=38.45	Pass
		4 TX Slots	848.8	28.51	-0.21	26.15	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	27.26	-0.21	24.9	<=38.45	Pass
		2 TX Slots	824.2	26.27	-0.21	23.91	<=38.45	Pass
		3 TX Slots	824.2	24.29	-0.21	21.93	<=38.45	Pass
		4 TX Slots	824.2	23.02	-0.21	20.66	<=38.45	Pass
		1 TX Slot	836.6	27.29	-0.21	24.93	<=38.45	Pass
		2 TX Slots	836.6	26.10	-0.21	23.74	<=38.45	Pass
		3 TX Slots	836.6	23.99	-0.21	21.63	<=38.45	Pass
		4 TX Slots	836.6	22.87	-0.21	20.51	<=38.45	Pass
		1 TX Slot	848.8	27.97	-0.21	25.61	<=38.45	Pass
		2 TX Slots	848.8	25.98	-0.21	23.62	<=38.45	Pass
		3 TX Slots	848.8	23.74	-0.21	21.38	<=38.45	Pass
		4 TX Slots	848.8	22.62	-0.21	20.26	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15



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Band: PCS1900								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	30.16	1.42	31.58	<=33.01	Pass
		2 TX Slots	1850.2	29.16	1.42	30.58	<=33.01	Pass
		3 TX Slots	1850.2	27.21	1.42	28.63	<=33.01	Pass
		4 TX Slots	1850.2	26.04	1.42	27.46	<=33.01	Pass
		1 TX Slot	1880	29.99	1.42	31.41	<=33.01	Pass
		2 TX Slots	1880	29.61	1.42	31.03	<=33.01	Pass
		3 TX Slots	1880	27.30	1.42	28.72	<=33.01	Pass
		4 TX Slots	1880	26.06	1.42	27.48	<=33.01	Pass
		1 TX Slot	1909.8	30.14	1.42	31.56	<=33.01	Pass
		2 TX Slots	1909.8	29.86	1.42	31.28	<=33.01	Pass
		3 TX Slots	1909.8	27.53	1.42	28.95	<=33.01	Pass
		4 TX Slots	1909.8	26.47	1.42	27.89	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	25.70	1.42	27.12	<=33.01	Pass
		2 TX Slots	1850.2	25.06	1.42	26.48	<=33.01	Pass
		3 TX Slots	1850.2	22.83	1.42	24.25	<=33.01	Pass
		4 TX Slots	1850.2	23.10	1.42	24.52	<=33.01	Pass
		1 TX Slot	1880	26.99	1.42	28.41	<=33.01	Pass
		2 TX Slots	1880	24.89	1.42	26.31	<=33.01	Pass
		3 TX Slots	1880	22.82	1.42	24.24	<=33.01	Pass
		4 TX Slots	1880	21.75	1.42	23.17	<=33.01	Pass
		1 TX Slot	1909.8	27.20	1.42	28.62	<=33.01	Pass
		2 TX Slots	1909.8	25.05	1.42	26.47	<=33.01	Pass
		3 TX Slots	1909.8	22.94	1.42	24.36	<=33.01	Pass
		4 TX Slots	1909.8	21.92	1.42	23.34	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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Band: 2								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	23.28	1.42	24.7	<=33.01	Pass
			1880	23.24	1.42	24.66	<=33.01	Pass
			1907.6	23.18	1.42	24.6	<=33.01	Pass
	HSDPA	Subtest 1	1852.4	21.76	1.42	23.18	<=33.01	Pass
		Subtest 2	1852.4	21.83	1.42	23.25	<=33.01	Pass
		Subtest 3	1852.4	21.81	1.42	23.23	<=33.01	Pass
		Subtest 4	1852.4	21.79	1.42	23.21	<=33.01	Pass
		Subtest 1	1880	21.51	1.42	22.93	<=33.01	Pass
		Subtest 2	1880	21.63	1.42	23.05	<=33.01	Pass
		Subtest 3	1880	21.54	1.42	22.96	<=33.01	Pass
		Subtest 4	1880	21.60	1.42	23.02	<=33.01	Pass
		Subtest 1	1907.6	21.94	1.42	23.36	<=33.01	Pass
		Subtest 2	1907.6	21.95	1.42	23.37	<=33.01	Pass
		Subtest 3	1907.6	21.83	1.42	23.25	<=33.01	Pass
		Subtest 4	1907.6	21.86	1.42	23.28	<=33.01	Pass
	HSUPA	Subtest 1	1852.4	21.00	1.42	22.42	<=33.01	Pass
		Subtest 2	1852.4	19.53	1.42	20.95	<=33.01	Pass
		Subtest 3	1852.4	20.77	1.42	22.19	<=33.01	Pass
		Subtest 4	1852.4	20.99	1.42	22.41	<=33.01	Pass
		Subtest 5	1852.4	20.78	1.42	22.2	<=33.01	Pass
		Subtest 1	1880	19.47	1.42	20.89	<=33.01	Pass
		Subtest 2	1880	19.17	1.42	20.59	<=33.01	Pass
		Subtest 3	1880	19.44	1.42	20.86	<=33.01	Pass
		Subtest 4	1880	20.72	1.42	22.14	<=33.01	Pass
		Subtest 5	1880	19.60	1.42	21.02	<=33.01	Pass
		Subtest 1	1907.6	19.37	1.42	20.79	<=33.01	Pass
		Subtest 2	1907.6	20.90	1.42	22.32	<=33.01	Pass
		Subtest 3	1907.6	19.31	1.42	20.73	<=33.01	Pass
		Subtest 4	1907.6	19.13	1.42	20.55	<=33.01	Pass
		Subtest 5	1907.6	19.56	1.42	20.98	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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Band: 4								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	23.19	2.04	25.23	<=30	Pass
			1732.6	23.12	2.04	25.16	<=30	Pass
			1752.6	22.92	2.04	24.96	<=30	Pass
	HSDPA	Subtest 1	1712.4	21.48	2.04	23.52	<=30	Pass
		Subtest 2	1712.4	21.43	2.04	23.47	<=30	Pass
		Subtest 3	1712.4	21.56	2.04	23.6	<=30	Pass
		Subtest 4	1712.4	21.61	2.04	23.65	<=30	Pass
		Subtest 1	1732.6	21.29	2.04	23.33	<=30	Pass
		Subtest 2	1732.6	21.31	2.04	23.35	<=30	Pass
		Subtest 3	1732.6	21.29	2.04	23.33	<=30	Pass
		Subtest 4	1732.6	21.37	2.04	23.41	<=30	Pass
		Subtest 1	1752.6	21.21	2.04	23.25	<=30	Pass
		Subtest 2	1752.6	21.20	2.04	23.24	<=30	Pass
		Subtest 3	1752.6	21.13	2.04	23.17	<=30	Pass
		Subtest 4	1752.6	21.17	2.04	23.21	<=30	Pass
	HSUPA	Subtest 1	1712.4	19.79	2.04	21.83	<=30	Pass
		Subtest 2	1712.4	19.91	2.04	21.95	<=30	Pass
		Subtest 3	1712.4	19.71	2.04	21.75	<=30	Pass
		Subtest 4	1712.4	20.18	2.04	22.22	<=30	Pass
		Subtest 5	1712.4	20.17	2.04	22.21	<=30	Pass
		Subtest 1	1732.6	19.82	2.04	21.86	<=30	Pass
		Subtest 2	1732.6	19.73	2.04	21.77	<=30	Pass
		Subtest 3	1732.6	19.91	2.04	21.95	<=30	Pass
		Subtest 4	1732.6	19.43	2.04	21.47	<=30	Pass
		Subtest 5	1732.6	19.52	2.04	21.56	<=30	Pass
		Subtest 1	1752.6	19.75	2.04	21.79	<=30	Pass
		Subtest 2	1752.6	19.80	2.04	21.84	<=30	Pass
		Subtest 3	1752.6	19.80	2.04	21.84	<=30	Pass
		Subtest 4	1752.6	19.91	2.04	21.95	<=30	Pass
		Subtest 5	1752.6	19.70	2.04	21.74	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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Band: 5								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	23.43	-0.21	21.07	<=38.45	Pass
			836.6	23.63	-0.21	21.27	<=38.45	Pass
			846.6	23.74	-0.21	21.38	<=38.45	Pass
	HSDPA	Subtest 1	826.4	21.64	-0.21	19.28	<=38.45	Pass
		Subtest 2	826.4	21.69	-0.21	19.33	<=38.45	Pass
		Subtest 3	826.4	21.72	-0.21	19.36	<=38.45	Pass
		Subtest 4	826.4	21.95	-0.21	19.59	<=38.45	Pass
		Subtest 1	836.6	21.77	-0.21	19.41	<=38.45	Pass
		Subtest 2	836.6	21.88	-0.21	19.52	<=38.45	Pass
		Subtest 3	836.6	21.94	-0.21	19.58	<=38.45	Pass
		Subtest 4	836.6	22.01	-0.21	19.65	<=38.45	Pass
		Subtest 1	846.6	21.91	-0.21	19.55	<=38.45	Pass
		Subtest 2	846.6	22.23	-0.21	19.87	<=38.45	Pass
		Subtest 3	846.6	22.05	-0.21	19.69	<=38.45	Pass
		Subtest 4	846.6	22.36	-0.21	20	<=38.45	Pass
	HSUPA	Subtest 1	826.4	20.08	-0.21	17.72	<=38.45	Pass
		Subtest 2	826.4	20.33	-0.21	17.97	<=38.45	Pass
		Subtest 3	826.4	20.52	-0.21	18.16	<=38.45	Pass
		Subtest 4	826.4	20.51	-0.21	18.15	<=38.45	Pass
		Subtest 5	826.4	20.04	-0.21	17.68	<=38.45	Pass
		Subtest 1	836.6	20.41	-0.21	18.05	<=38.45	Pass
		Subtest 2	836.6	20.06	-0.21	17.7	<=38.45	Pass
		Subtest 3	836.6	20.62	-0.21	18.26	<=38.45	Pass
		Subtest 4	836.6	20.17	-0.21	17.81	<=38.45	Pass
		Subtest 5	836.6	20.62	-0.21	18.26	<=38.45	Pass
		Subtest 1	846.6	20.71	-0.21	18.35	<=38.45	Pass
		Subtest 2	846.6	20.66	-0.21	18.3	<=38.45	Pass
		Subtest 3	846.6	20.73	-0.21	18.37	<=38.45	Pass
		Subtest 4	846.6	20.33	-0.21	17.97	<=38.45	Pass
		Subtest 5	846.6	20.75	-0.21	18.39	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15



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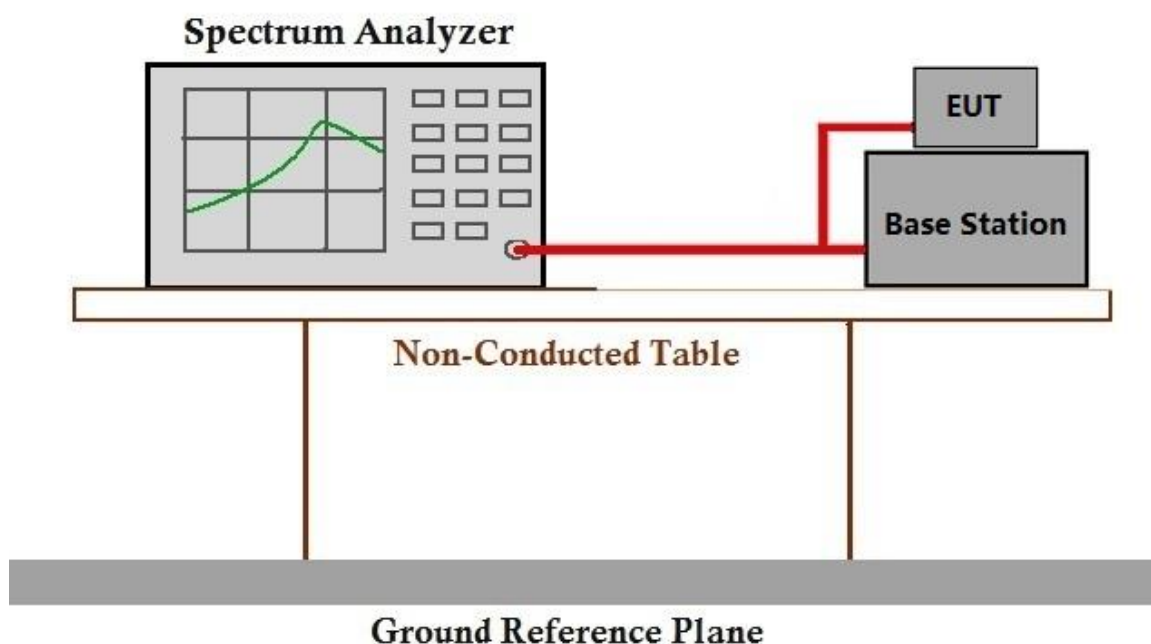
6.2 Peak-Average Ratio

Test Requirement: \$22.913, \$24.232, \$27.50(d)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: ≤13dB

6.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 24 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar
 Test mode: 30:TX mode_Keep the EUT in transmitting mode

6.2.2 Test Setup Diagram



6.2.3 Measurement Data



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Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	9.97	<=13	Pass
			836.6	4.17	<=13	Pass
			848.8	4.19	<=13	Pass
	EGPRS	4 TX Slots	824.2	9.66	<=13	Pass
			836.6	7.17	<=13	Pass
			848.8	10.12	<=13	Pass

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	9.70	<=13	Pass
			1880	3.82	<=13	Pass
			1909.8	3.97	<=13	Pass
	EGPRS	4 TX Slots	1850.2	7.67	<=13	Pass
			1880	8.07	<=13	Pass
			1909.8	8.37	<=13	Pass

Band: 2						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	3.14	<=13	Pass
			1880	2.92	<=13	Pass
			1907.6	2.77	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.82	<=13	Pass
			1880	5.81	<=13	Pass
			1907.6	5.47	<=13	Pass
	HSUPA	Subtest 1	1852.4	6.01	<=13	Pass
			1880	5.92	<=13	Pass
			1907.6	5.83	<=13	Pass



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Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	3.16	<=13	Pass
			1732.6	3.20	<=13	Pass
			1752.6	3.12	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.93	<=13	Pass
			1732.6	5.84	<=13	Pass
			1752.6	5.81	<=13	Pass
	HSUPA	Subtest 1	1712.4	5.87	<=13	Pass
			1732.6	5.85	<=13	Pass
			1752.6	5.83	<=13	Pass

Band: 5						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	2.77	<=13	Pass
			836.6	2.76	<=13	Pass
			846.6	2.71	<=13	Pass
	HSDPA	Subtest 1	826.4	5.66	<=13	Pass
			836.6	5.66	<=13	Pass
			846.6	5.62	<=13	Pass
	HSUPA	Subtest 1	826.4	5.69	<=13	Pass
			836.6	5.74	<=13	Pass
			846.6	5.71	<=13	Pass



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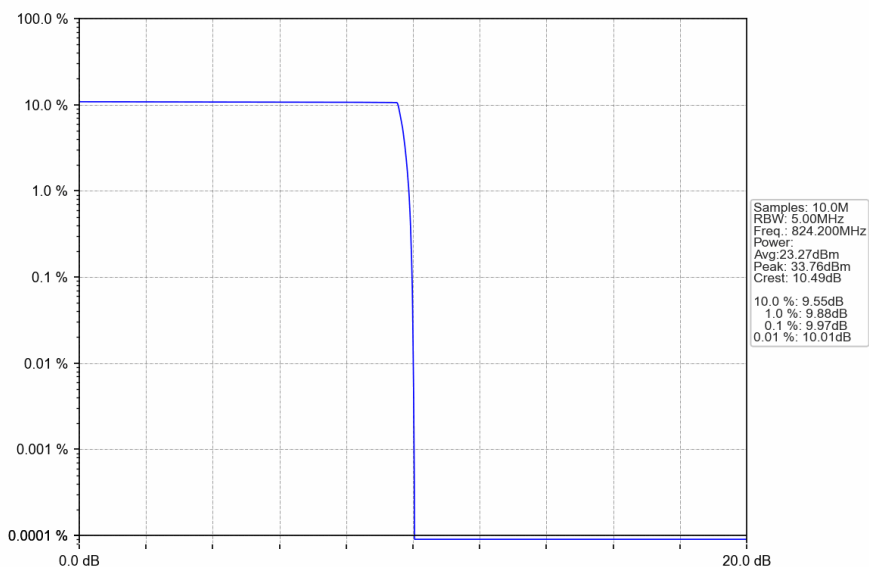
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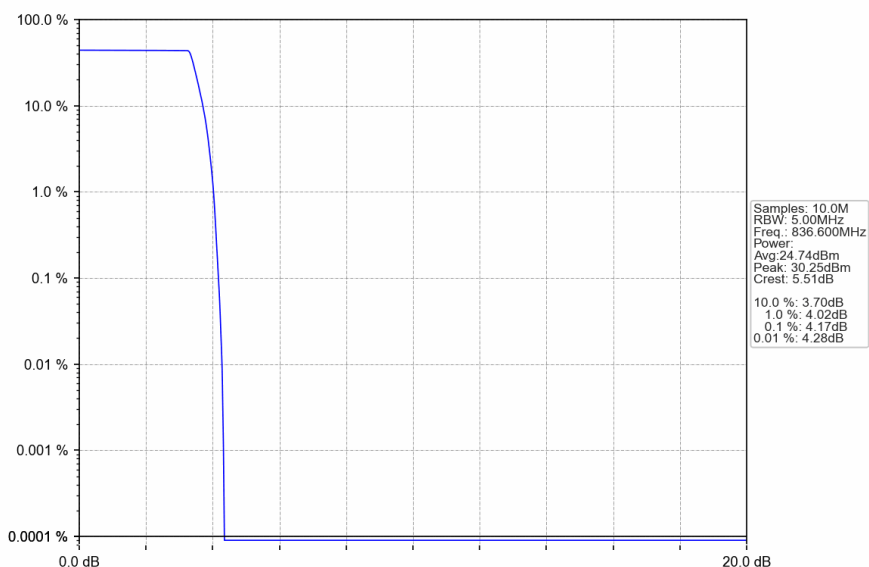
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GSM850_GPRS_LCH_824.2MHz_4 TX Slots_NTNV



GSM850_GPRS_MCH_836.6MHz_4 TX Slots_NTNV



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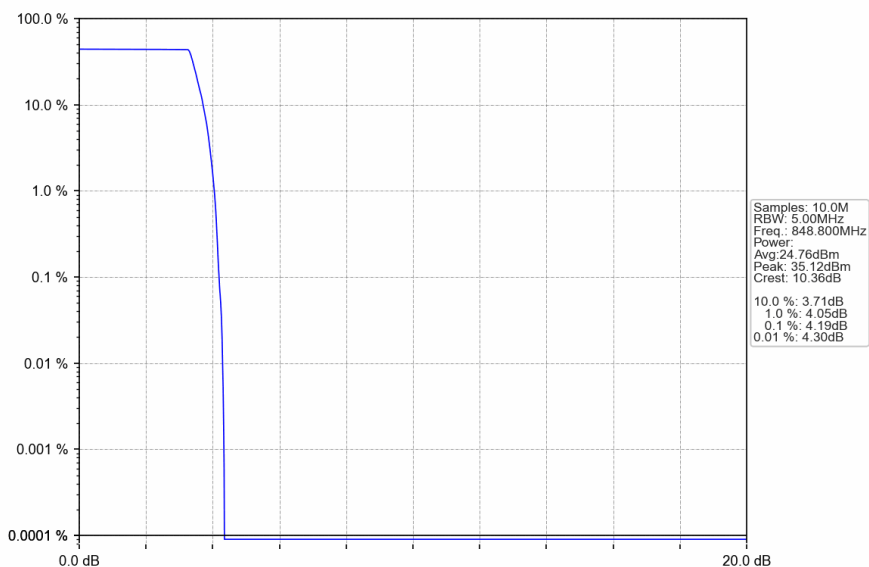
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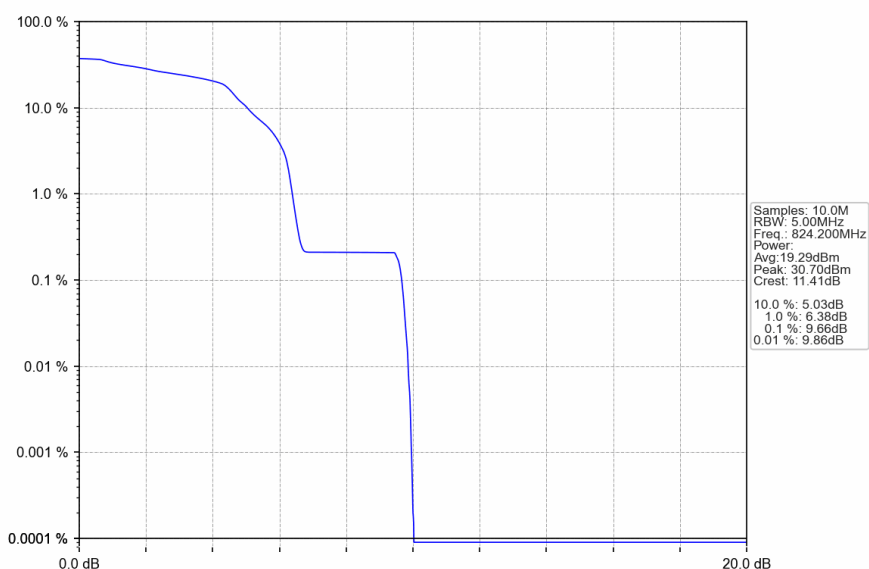
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GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV



GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



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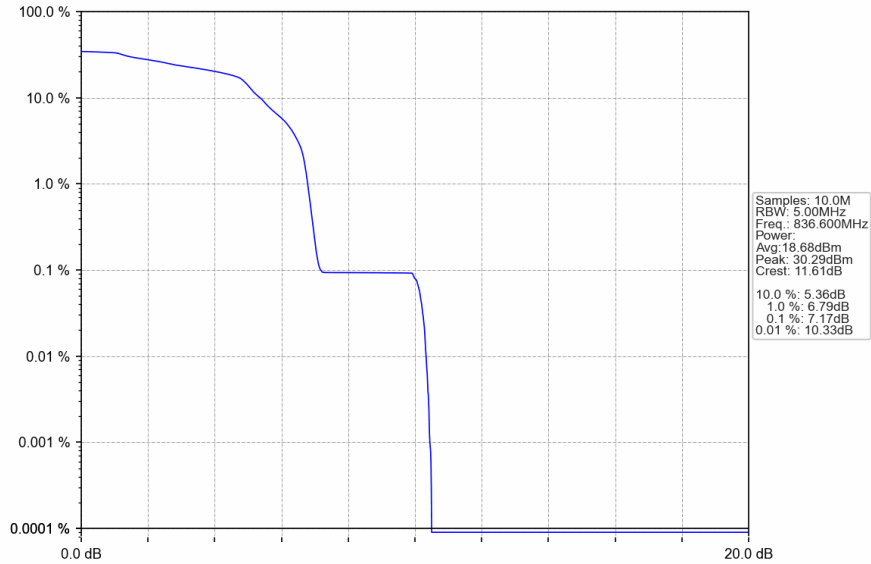
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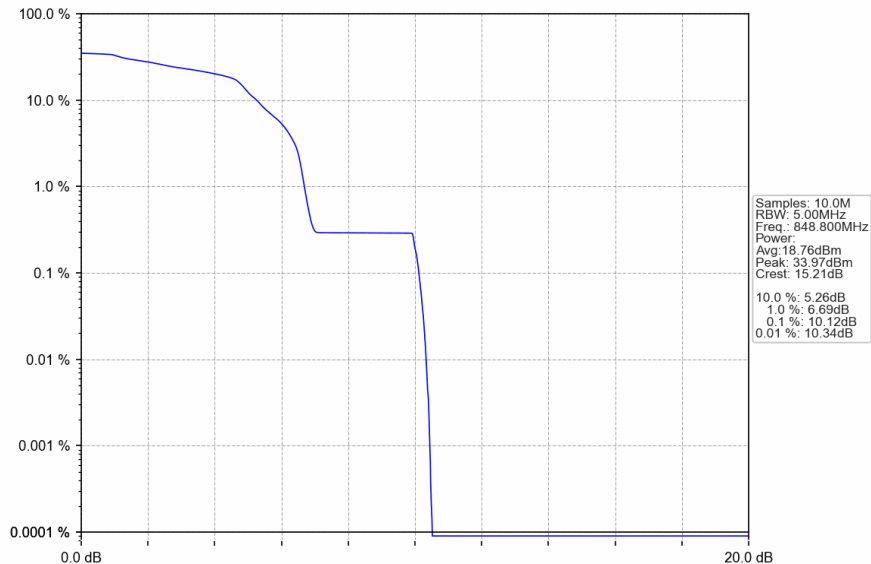
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GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV



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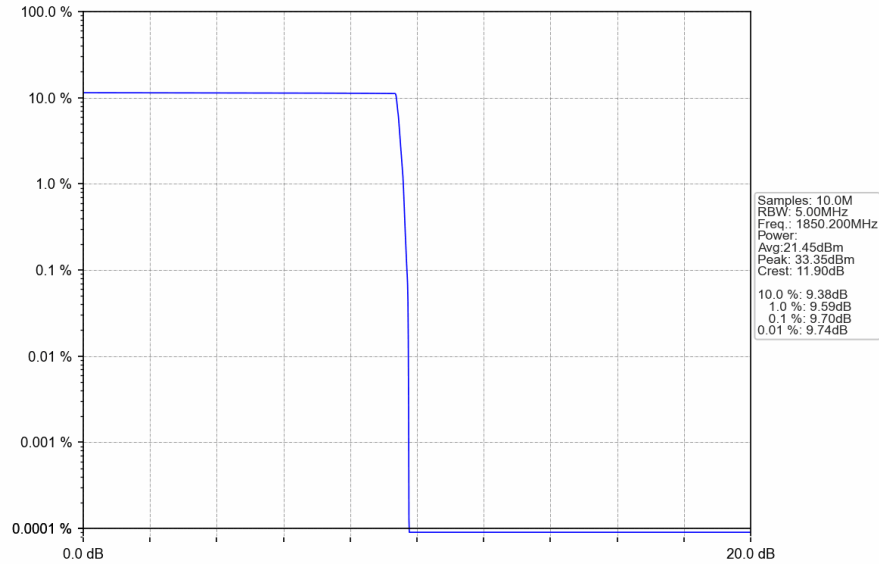
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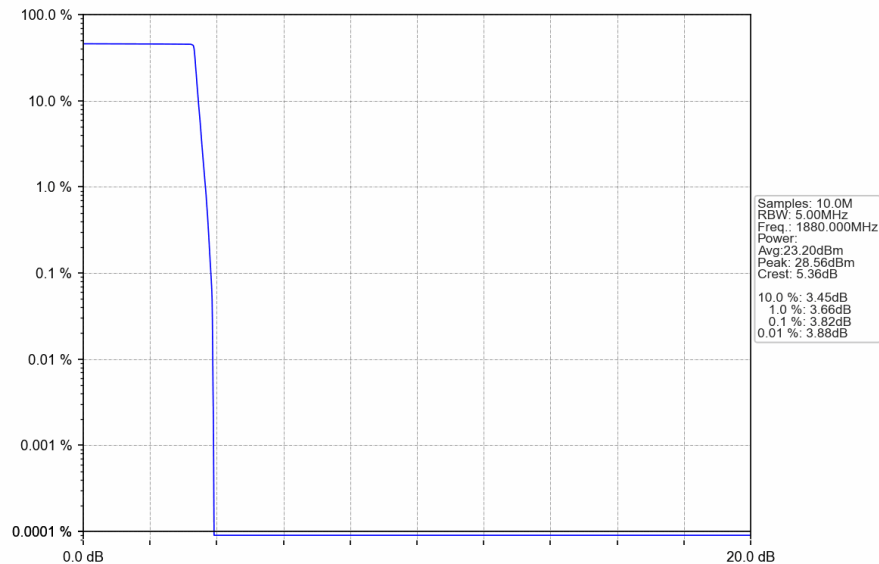
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PCS1900_GPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900_GPRS_MCH_1880MHz_4 TX Slots_NTNV



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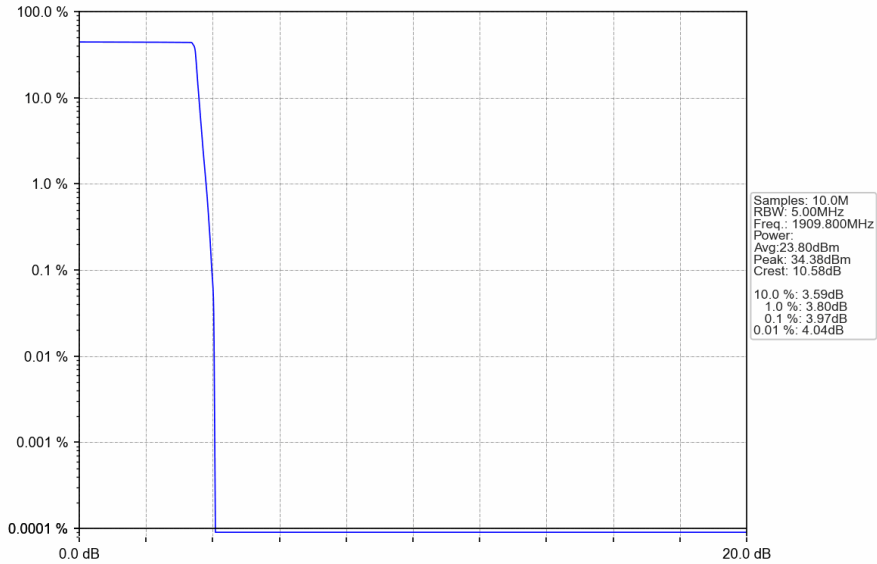
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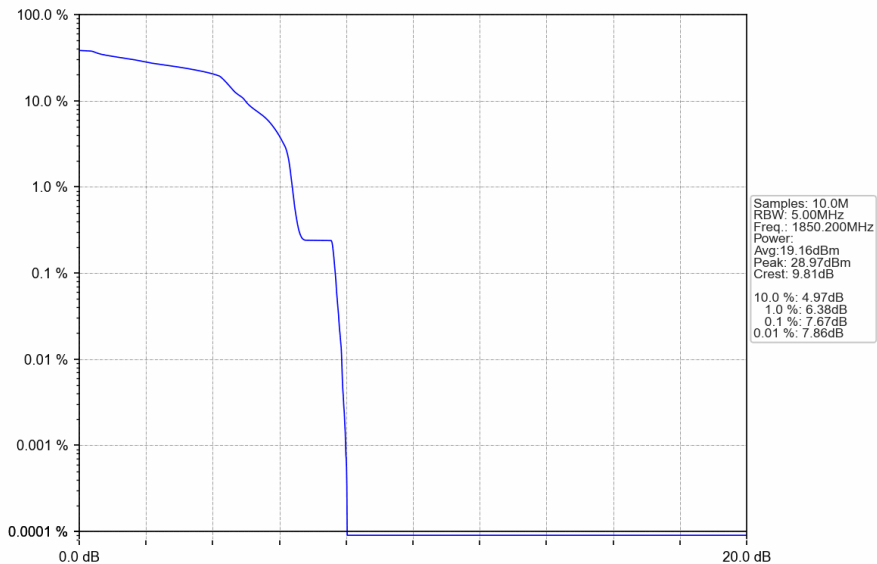
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PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



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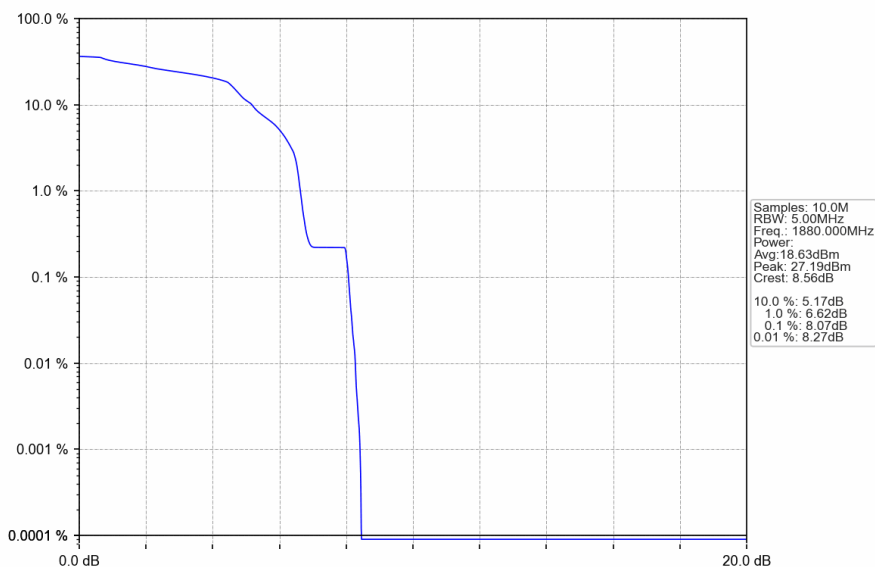
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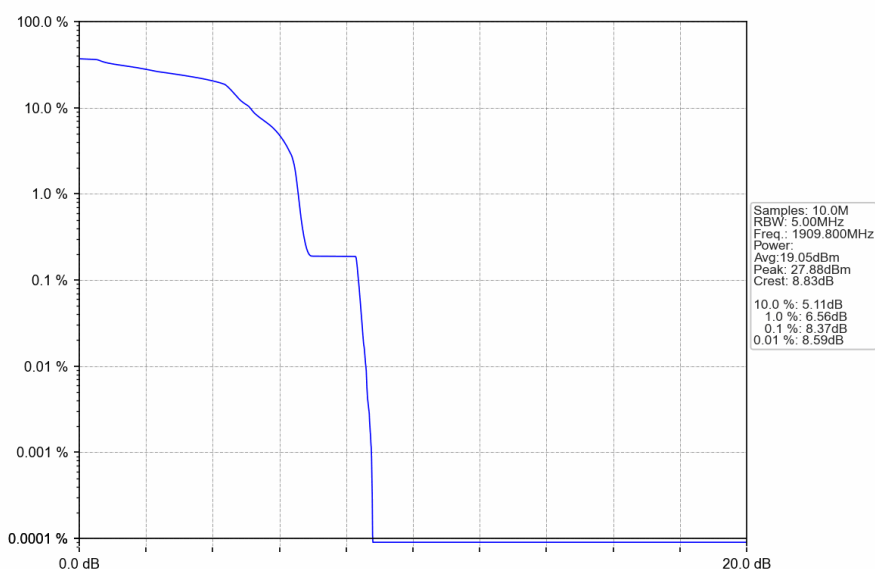
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PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV



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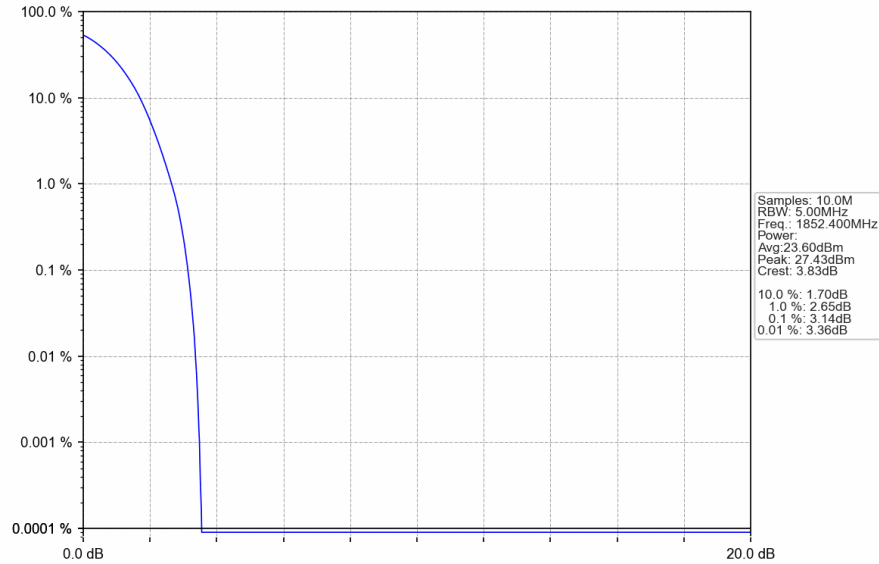
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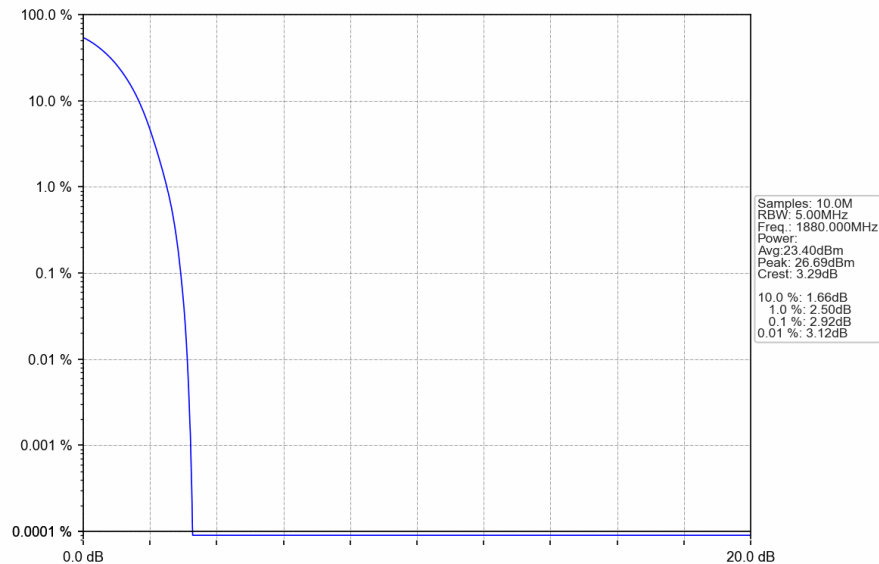
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Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



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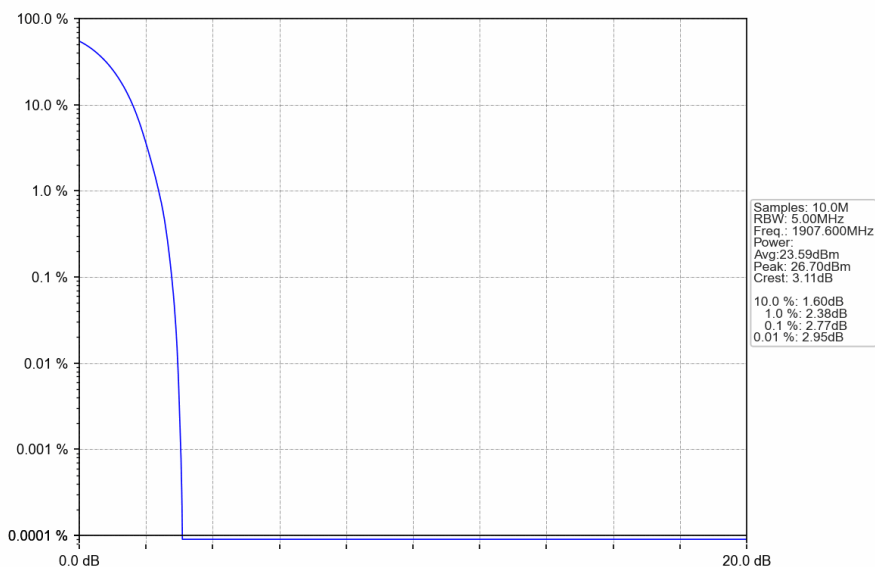
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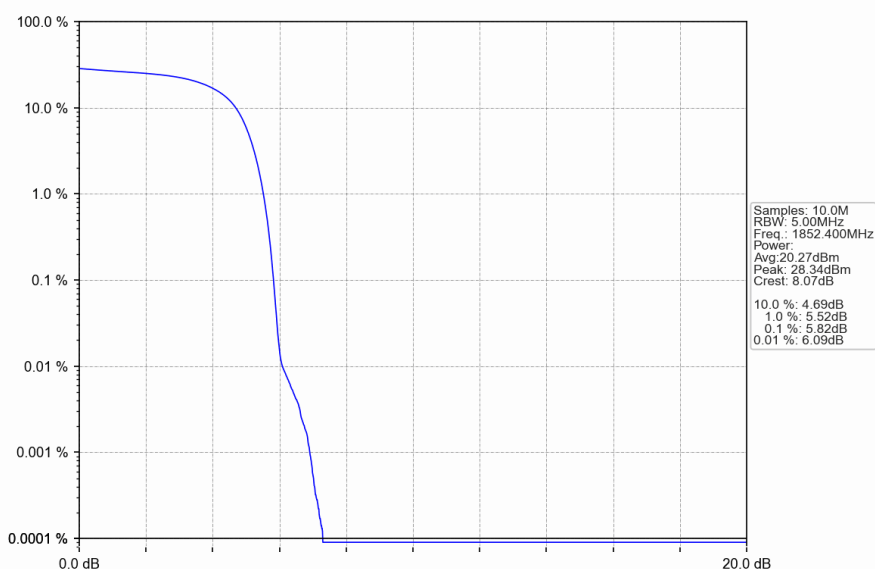
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Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



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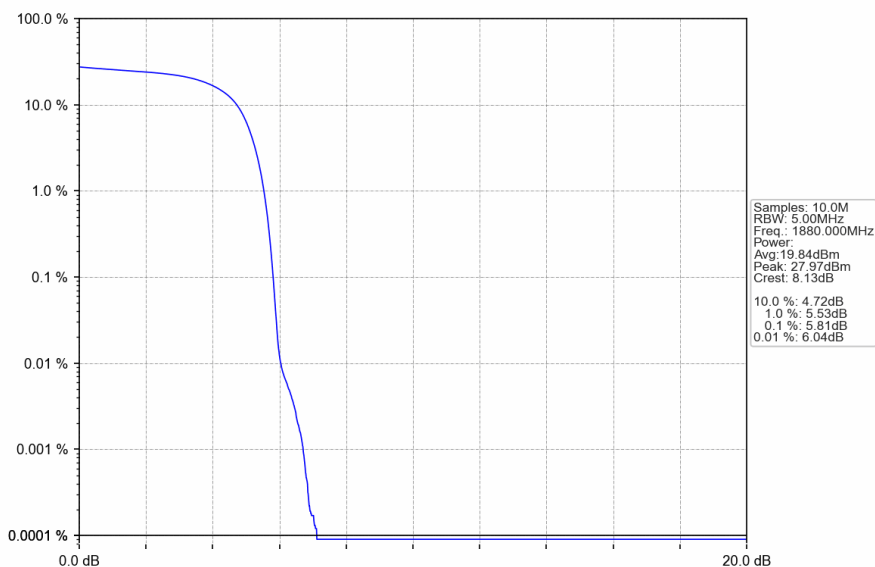
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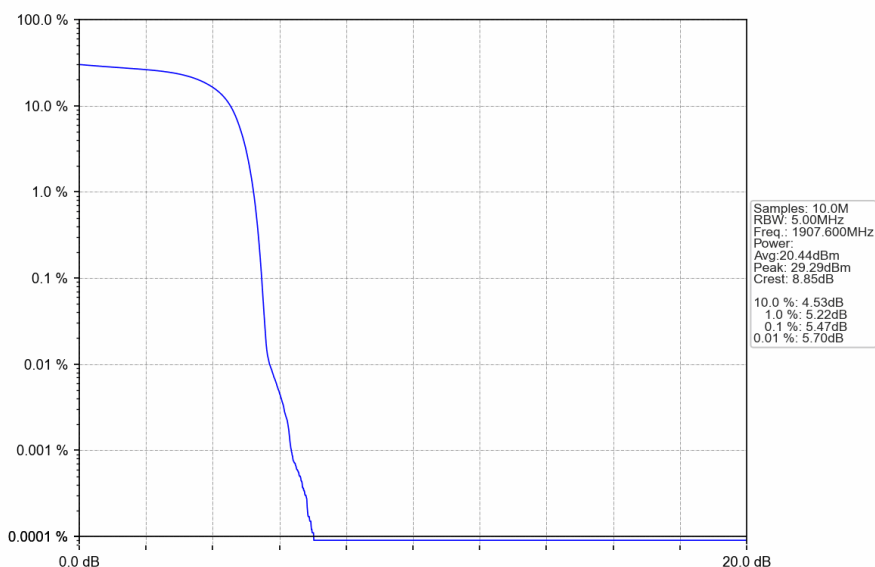
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Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



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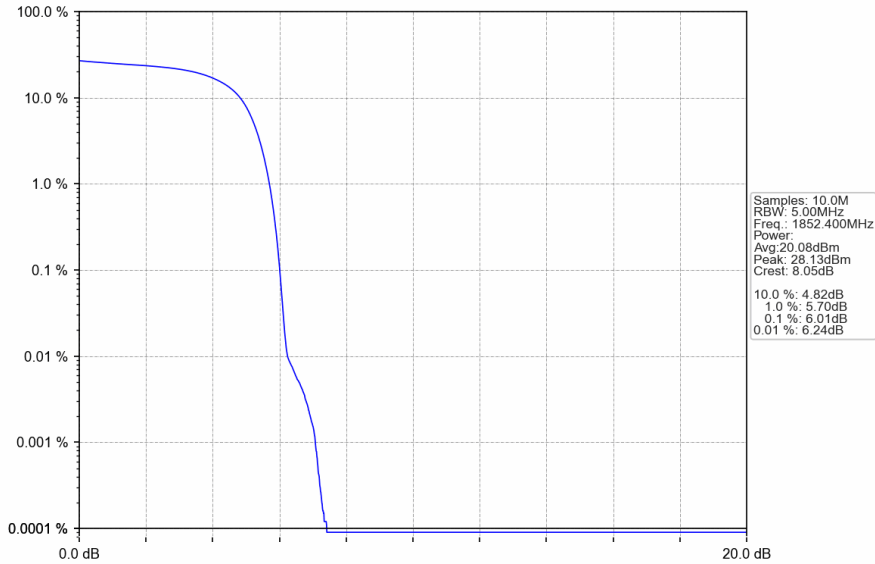
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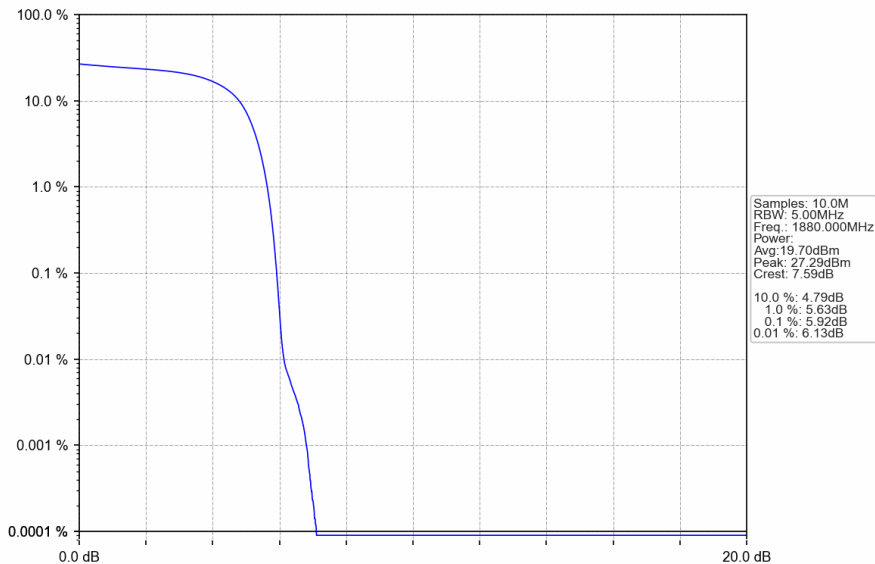
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Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



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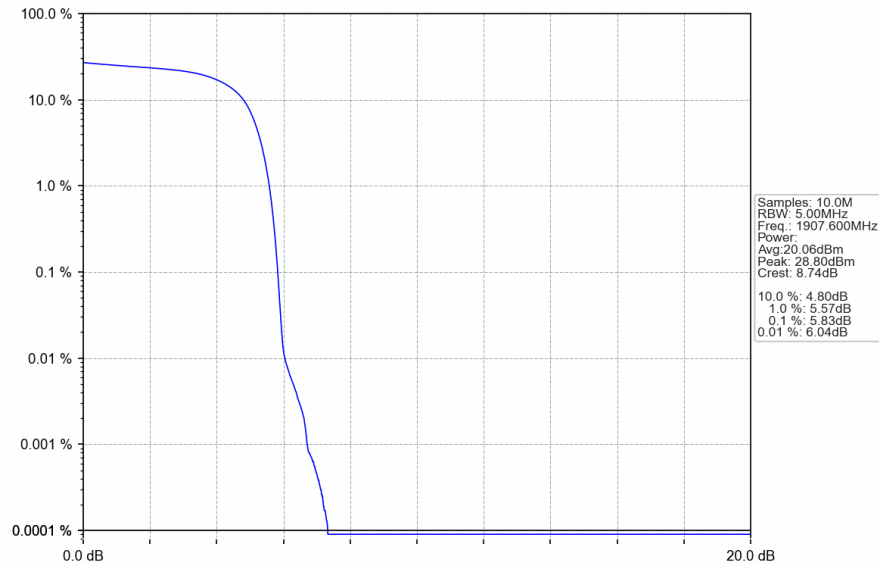
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Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



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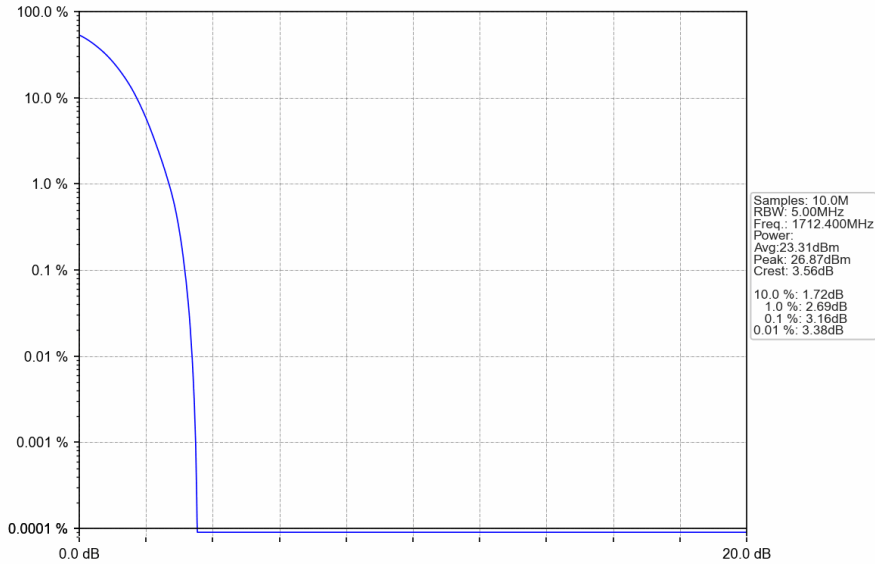
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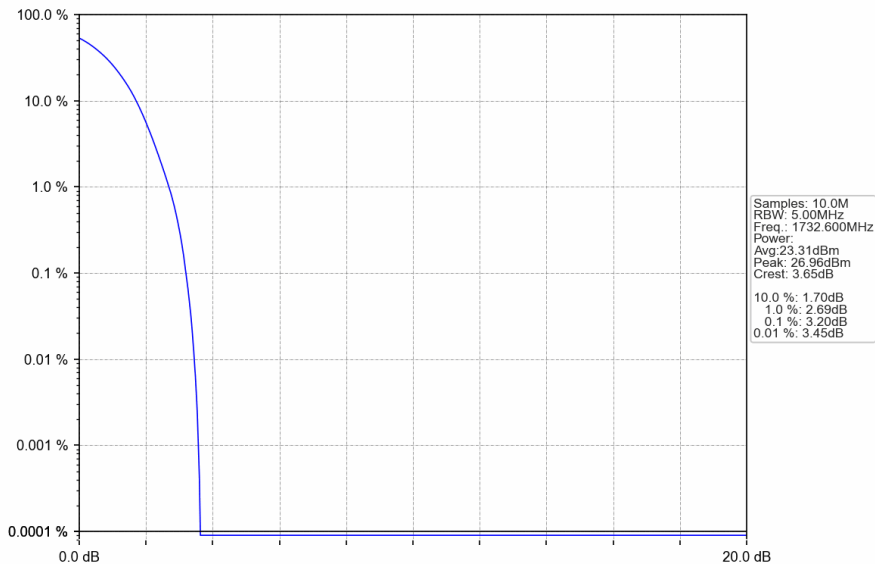
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Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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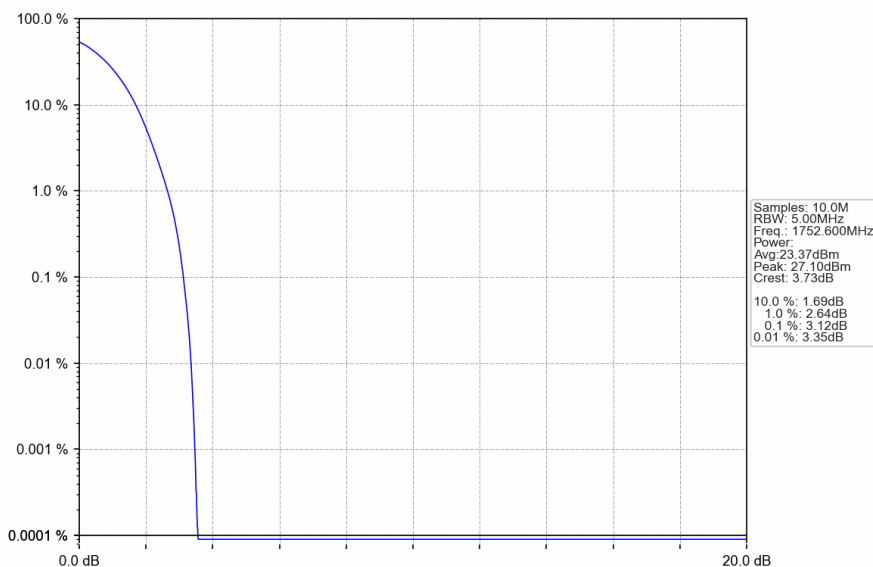
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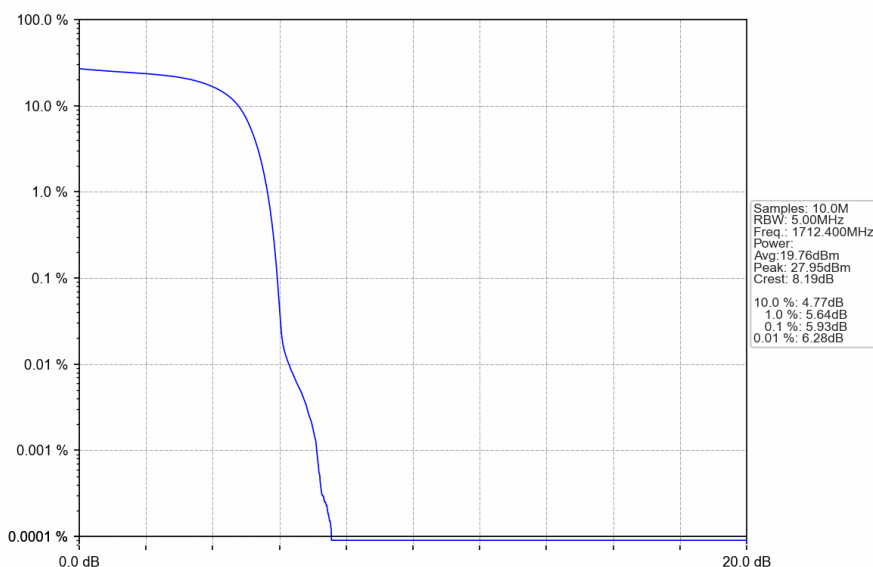
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Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



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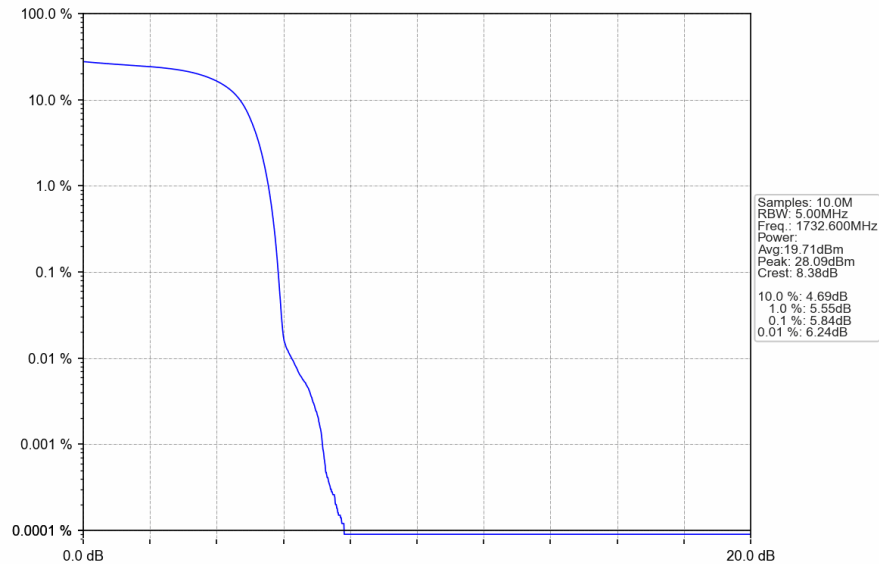
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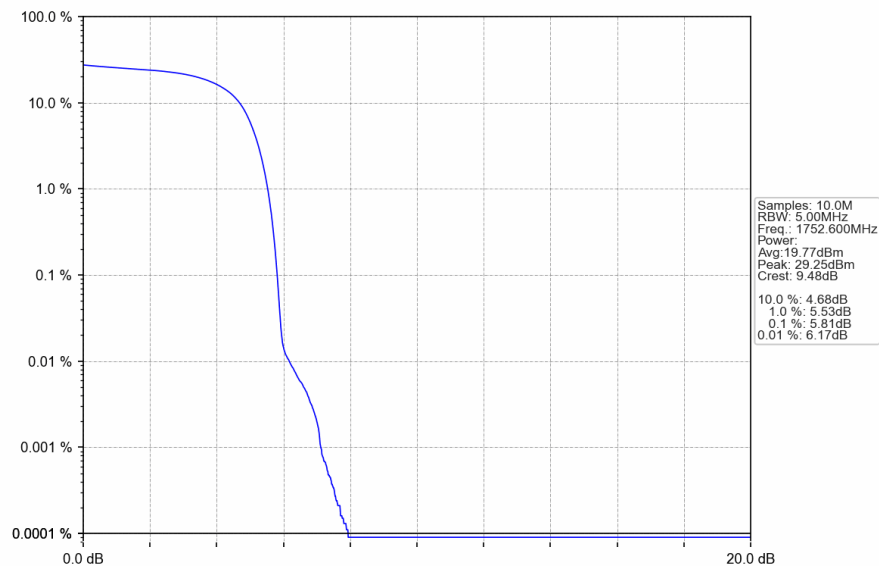
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Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



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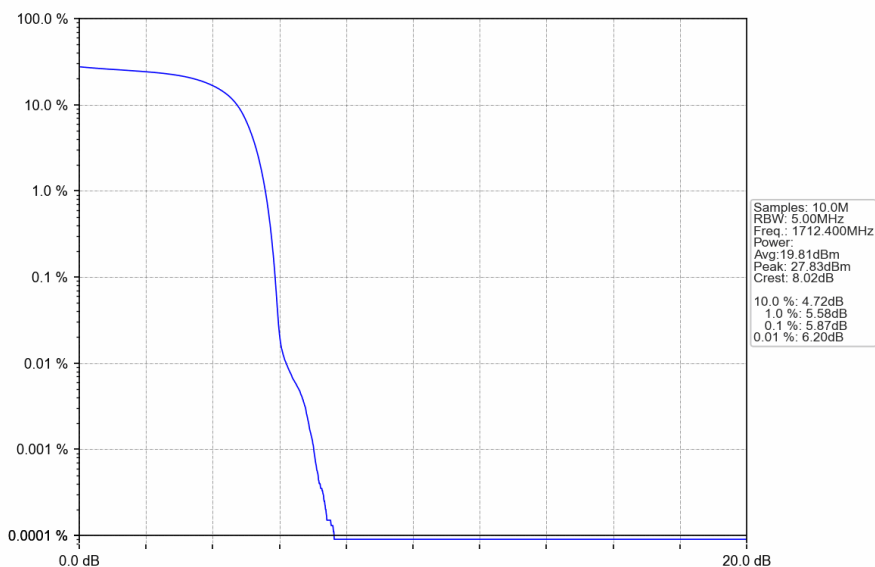
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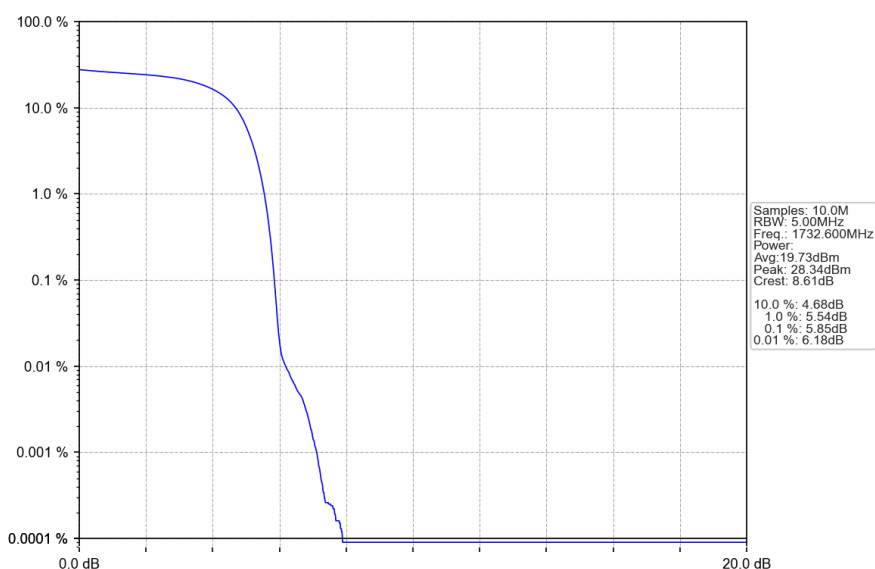
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Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



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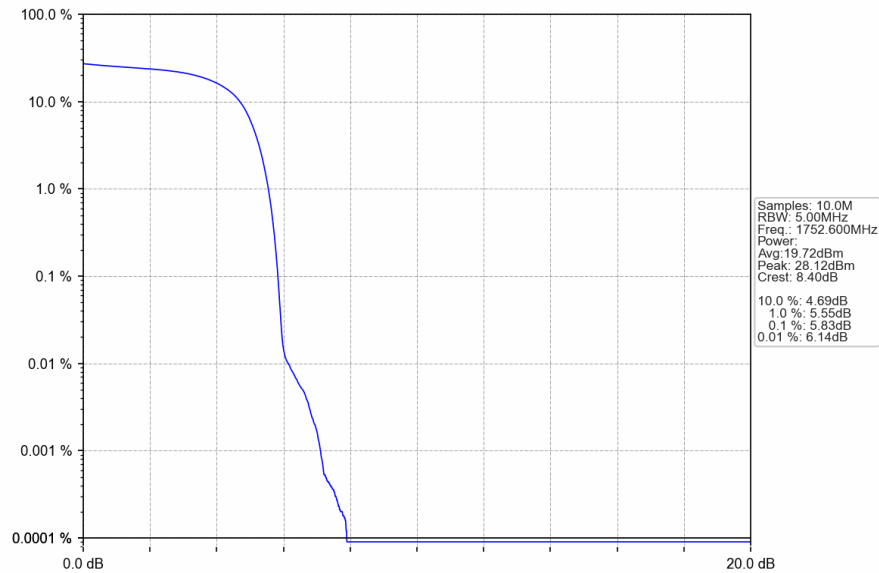
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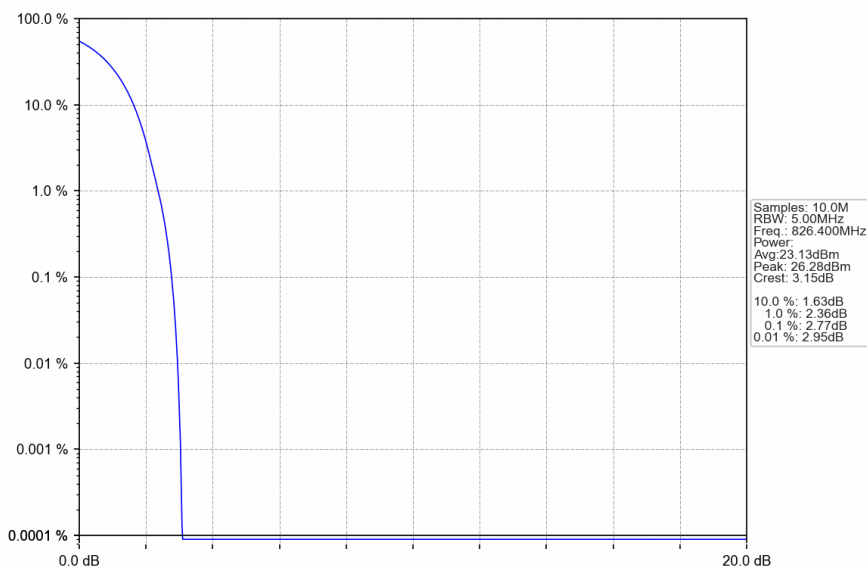
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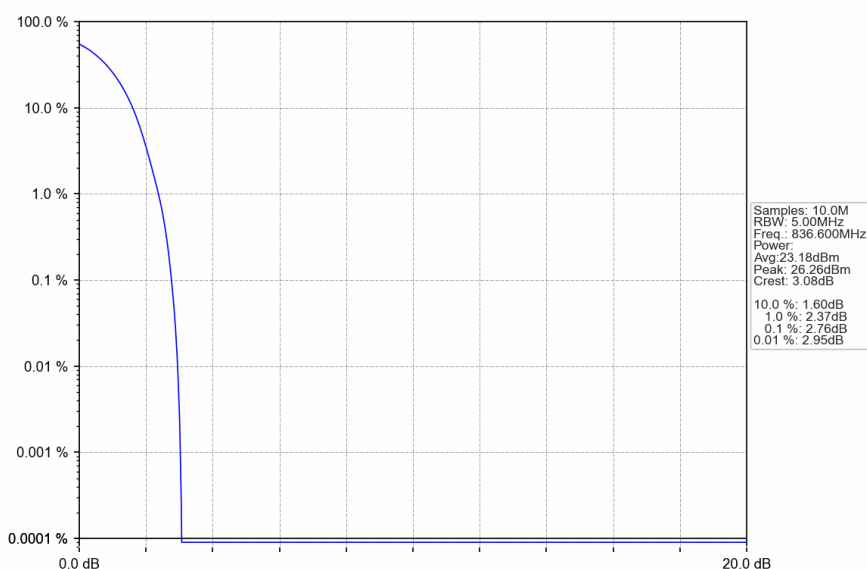
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Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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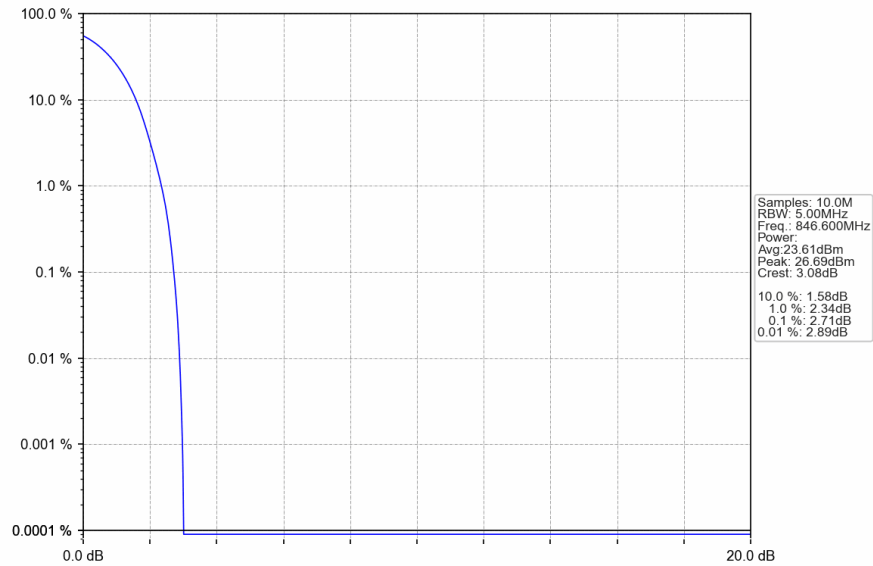
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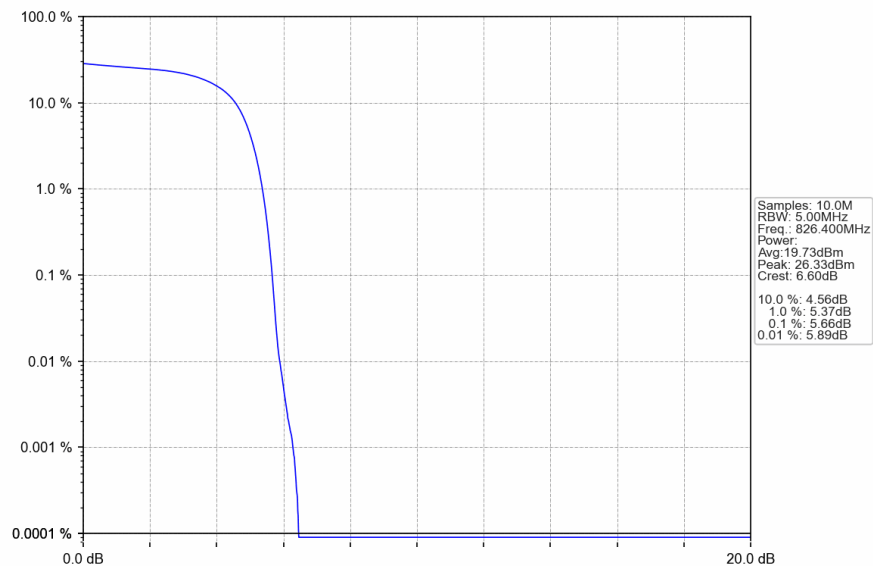
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Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



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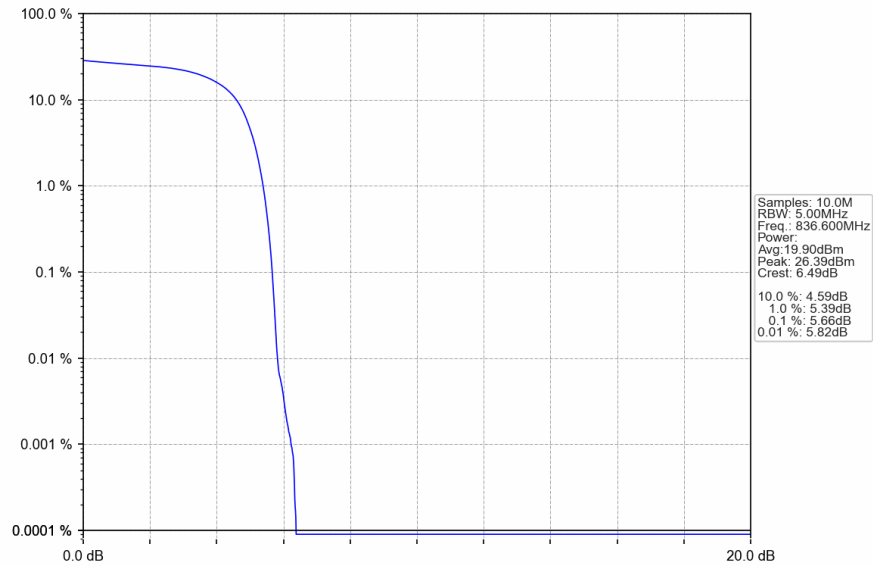
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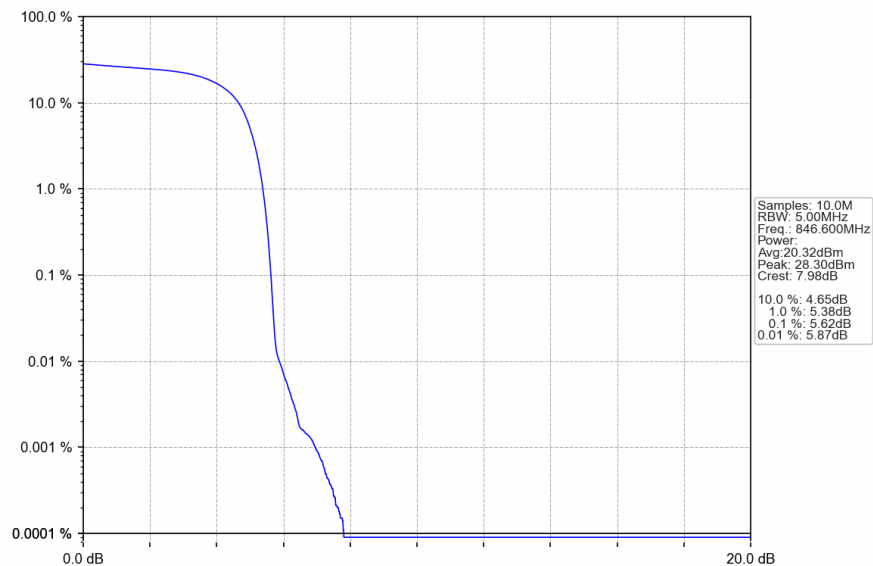
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Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



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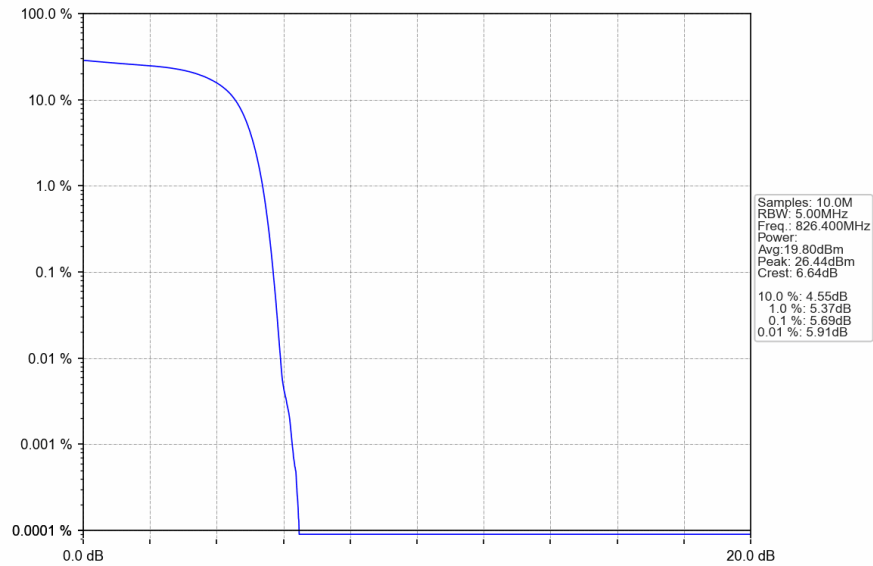
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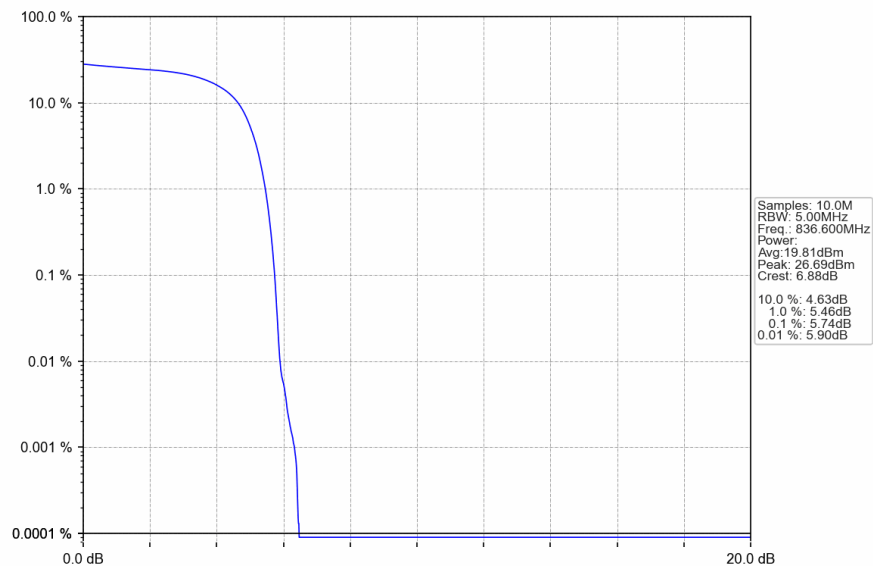
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Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



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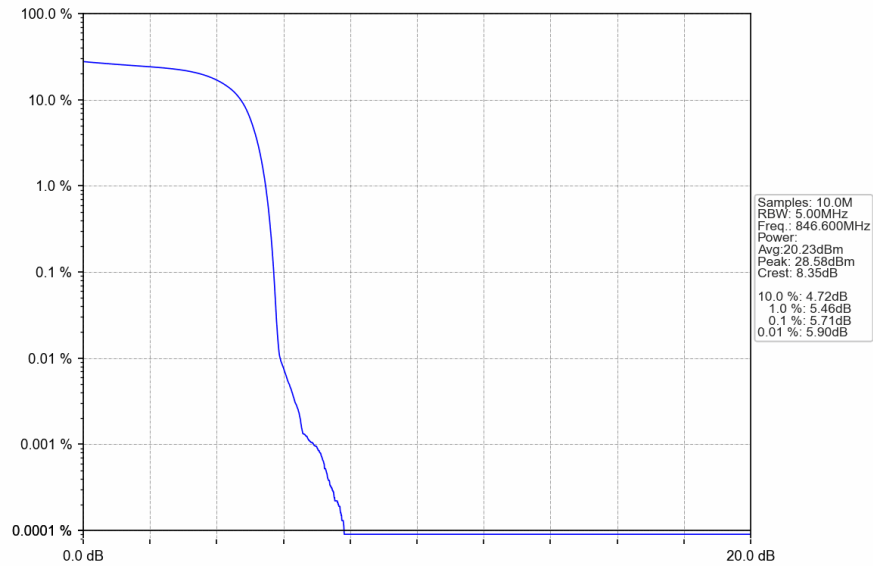
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Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



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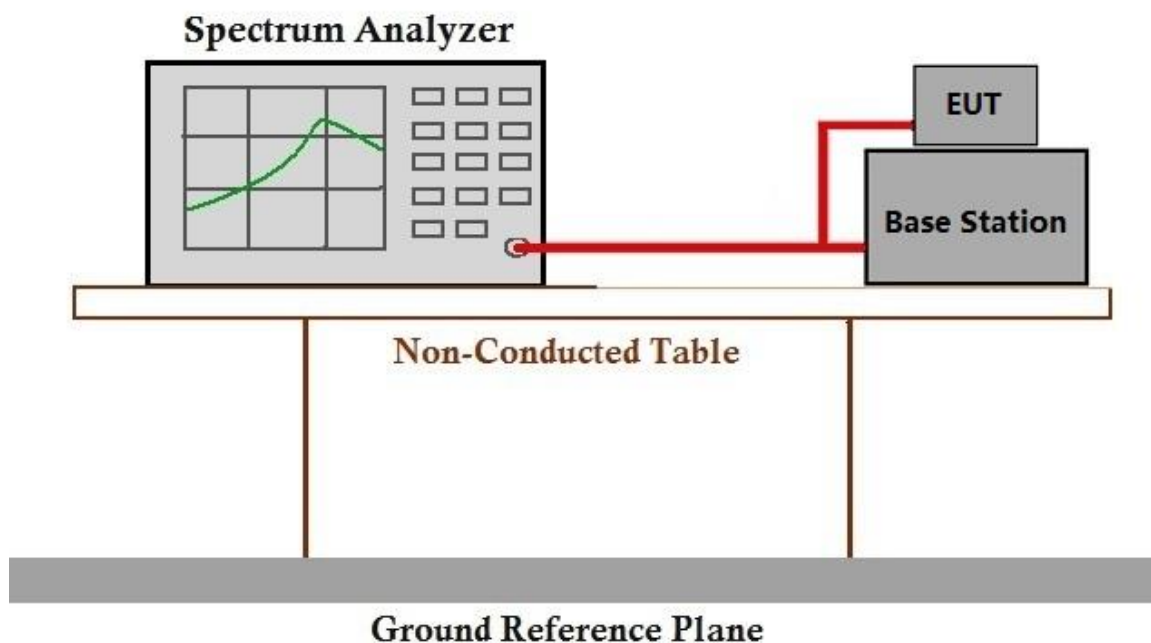
6.3 Bandwidth

Test Requirement: §2.1049(h)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: OBW: No limit
 EBW: No limit

6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 24 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar
 Test mode: 30:TX mode_Keep the EUT in transmitting mode

6.3.2 Test Setup Diagram



6.3.3 Measurement Data



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Band: GSM850					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	824.2	0.241	Pass
			836.6	0.242	Pass
			848.8	0.243	Pass
	EGPRS	1 TX Slot	824.2	0.243	Pass
			836.6	0.246	Pass
			848.8	0.237	Pass

Band: GSM850					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	824.2	0.316	Pass
			836.6	0.313	Pass
			848.8	0.318	Pass
	EGPRS	1 TX Slot	824.2	0.301	Pass
			836.6	0.305	Pass
			848.8	0.282	Pass

Band: PCS1900					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	1850.2	0.248	Pass
			1880	0.243	Pass
			1909.8	0.249	Pass
	EGPRS	1 TX Slot	1850.2	0.237	Pass
			1880	0.238	Pass
			1909.8	0.240	Pass



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Band: PCS1900					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	1850.2	0.321	Pass
			1880	0.306	Pass
			1909.8	0.316	Pass
	EGPRS	1 TX Slot	1850.2	0.296	Pass
			1880	0.307	Pass
			1909.8	0.303	Pass

Band: 2					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.170	Pass
			1880	4.135	Pass
			1907.6	4.156	Pass
	HSDPA	Subtest 1	1852.4	4.202	Pass
			1880	4.213	Pass
			1907.6	4.179	Pass
	HSUPA	Subtest 1	1852.4	4.218	Pass
			1880	4.197	Pass
			1907.6	4.174	Pass

Band: 2					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.768	Pass
			1880	4.726	Pass
			1907.6	4.732	Pass
	HSDPA	Subtest 1	1852.4	6.079	Pass
			1880	6.077	Pass
			1907.6	5.602	Pass
	HSUPA	Subtest 1	1852.4	5.810	Pass
			1880	5.624	Pass
			1907.6	5.796	Pass



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Band: 4					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1712.4	4.133	Pass
			1732.6	4.135	Pass
			1752.6	4.133	Pass
	HSDPA	Subtest 1	1712.4	4.186	Pass
			1732.6	4.195	Pass
			1752.6	4.215	Pass
	HSUPA	Subtest 1	1712.4	4.201	Pass
			1732.6	4.191	Pass
			1752.6	4.201	Pass

Band: 4					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1712.4	4.719	Pass
			1732.6	4.725	Pass
			1752.6	4.746	Pass
	HSDPA	Subtest 1	1712.4	6.434	Pass
			1732.6	5.999	Pass
			1752.6	6.326	Pass
	HSUPA	Subtest 1	1712.4	5.865	Pass
			1732.6	5.958	Pass
			1752.6	6.266	Pass

Band: 5					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	826.4	4.164	Pass
			836.6	4.141	Pass
			846.6	4.148	Pass
	HSDPA	Subtest 1	826.4	4.181	Pass
			836.6	4.160	Pass
			846.6	4.229	Pass
	HSUPA	Subtest 1	826.4	4.165	Pass
			836.6	4.166	Pass
			846.6	4.188	Pass



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Band: 5					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	826.4	4.779	Pass
			836.6	4.760	Pass
			846.6	4.737	Pass
	HSDPA	Subtest 1	826.4	4.751	Pass
			836.6	4.762	Pass
			846.6	6.225	Pass
	HSUPA	Subtest 1	826.4	4.748	Pass
			836.6	4.742	Pass
			846.6	6.299	Pass



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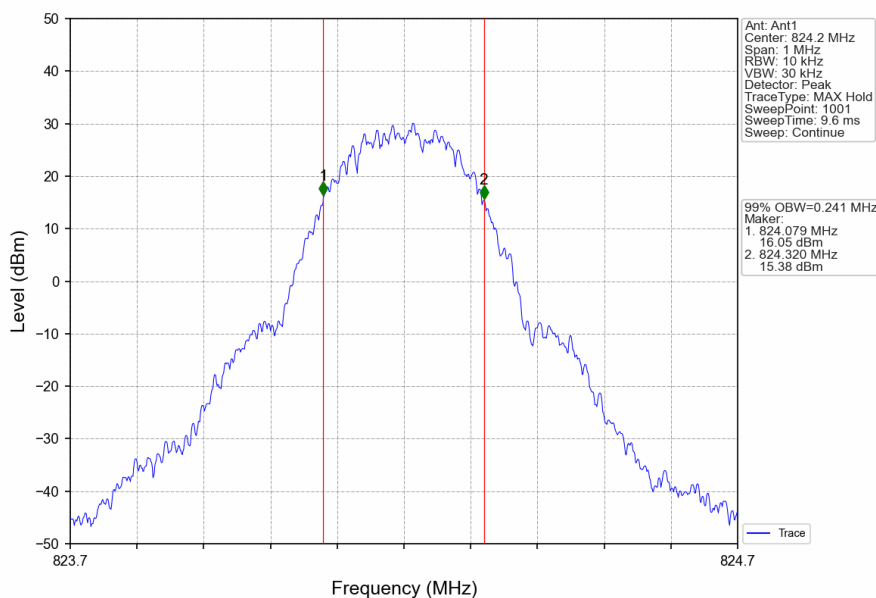
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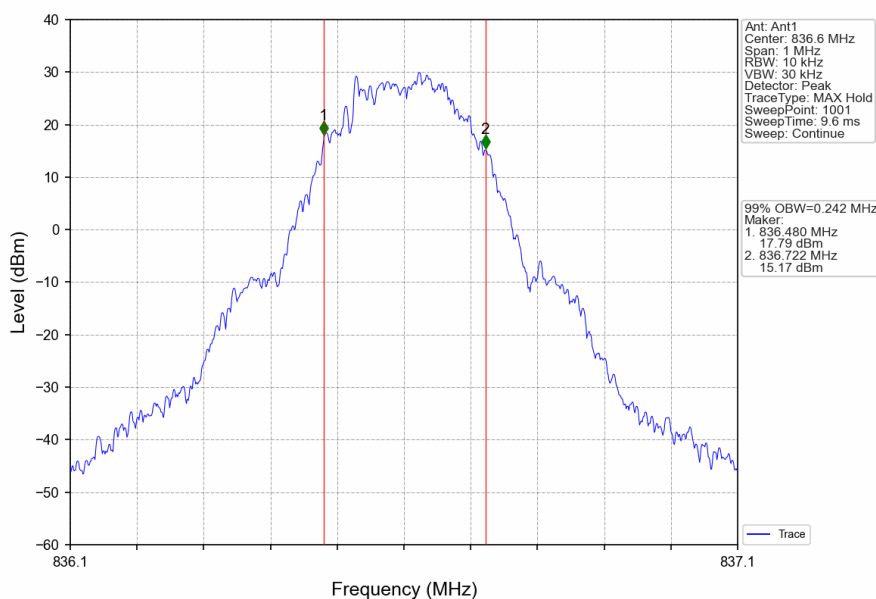
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GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



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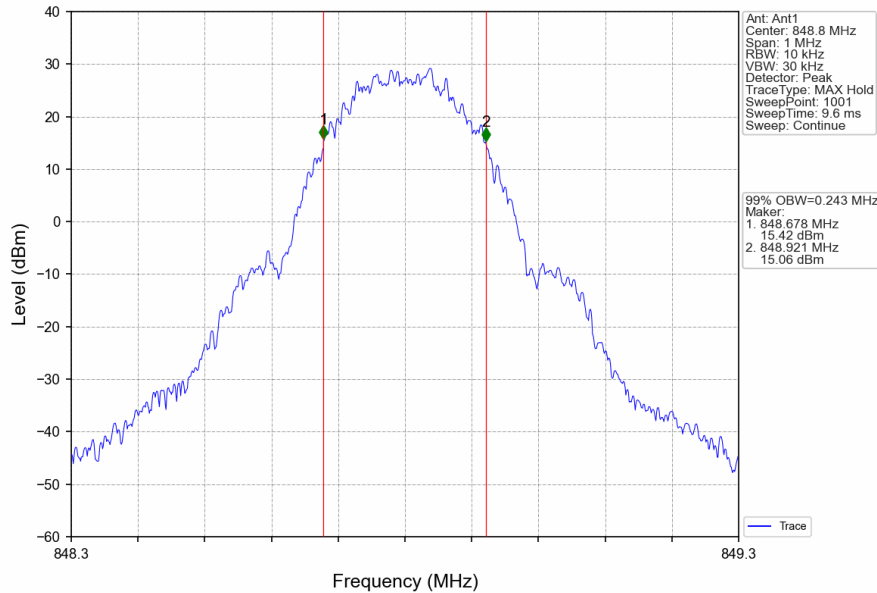
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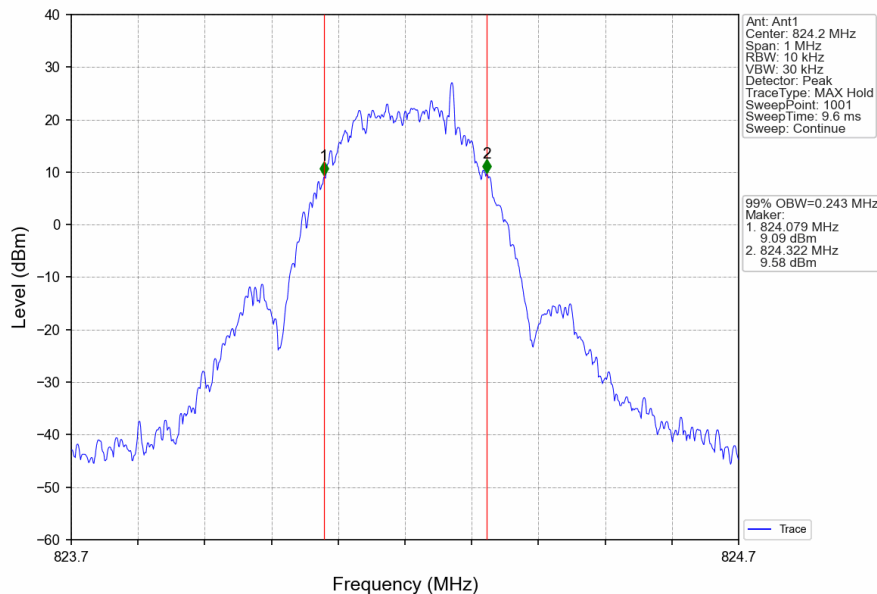
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GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



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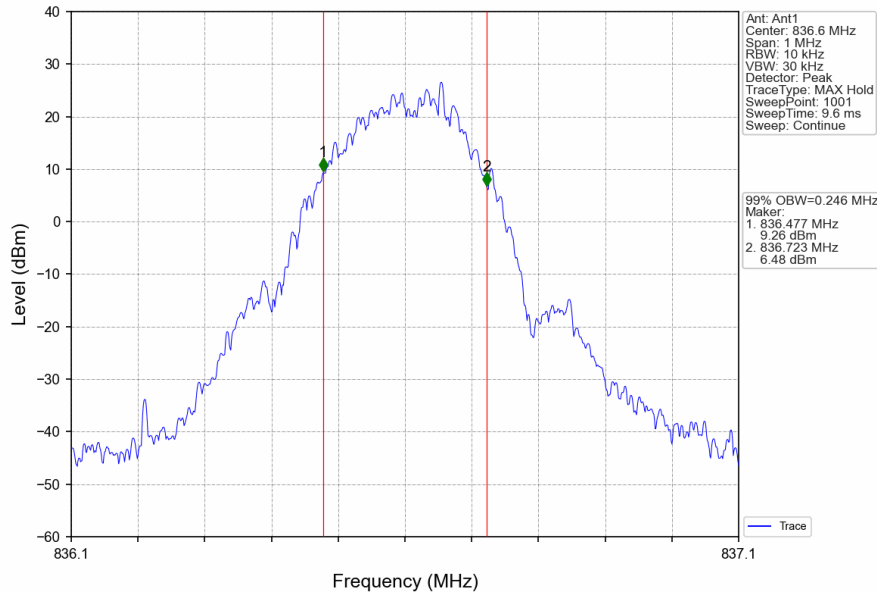
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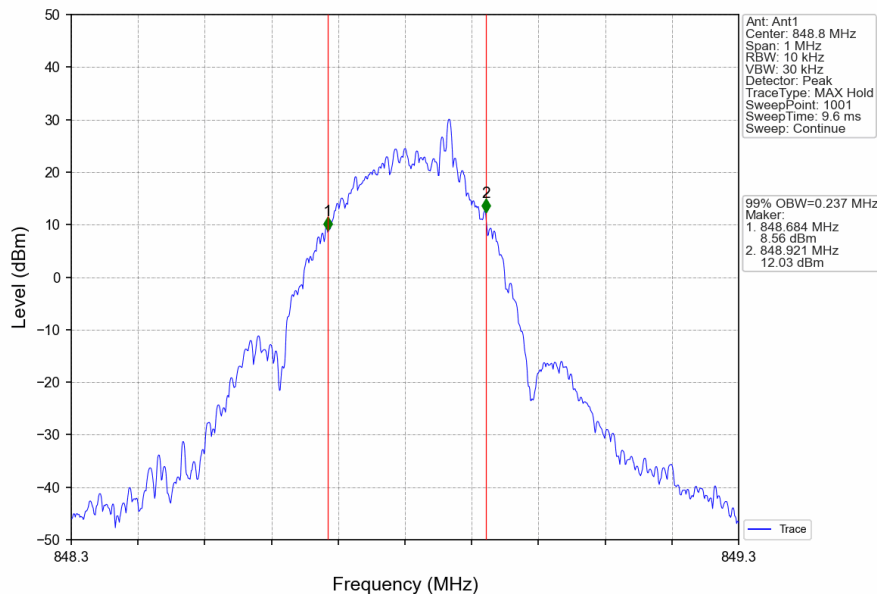
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GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



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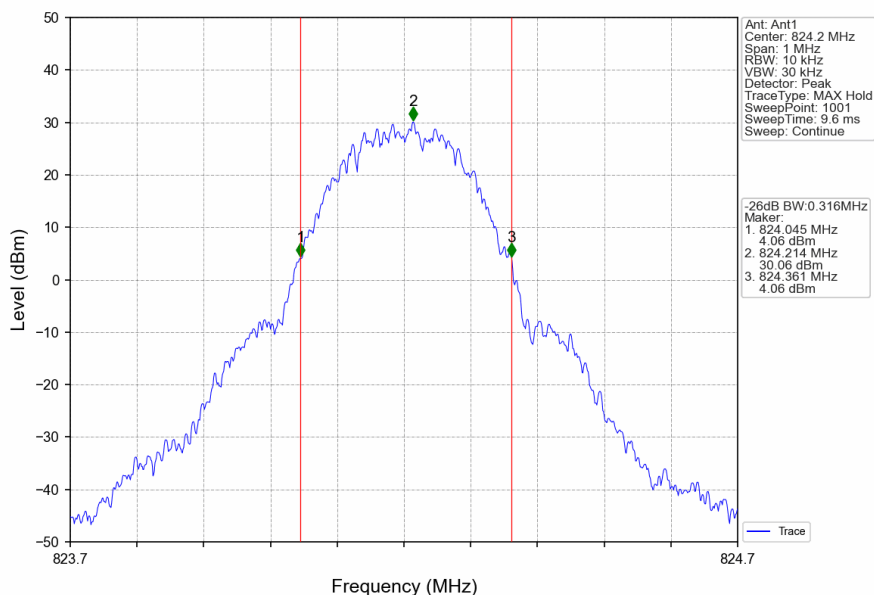
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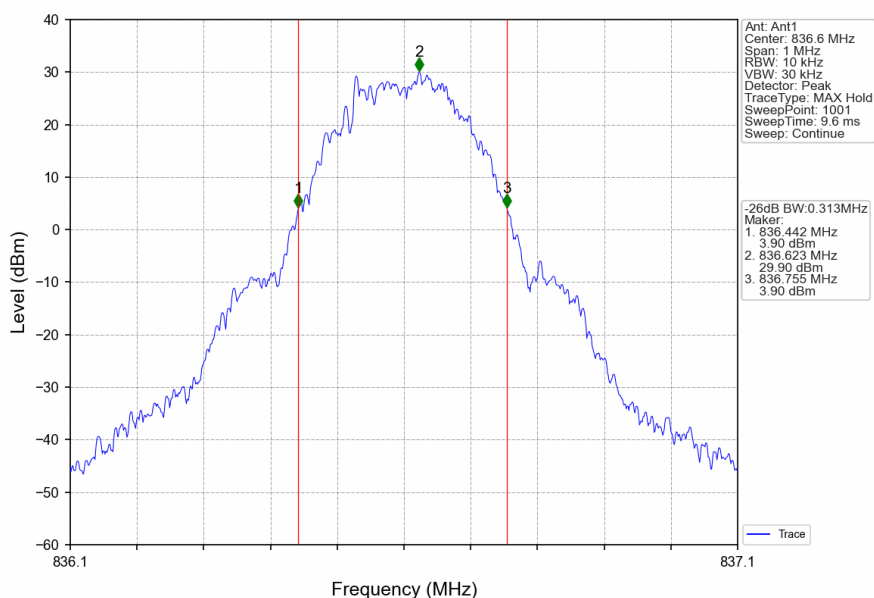
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GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



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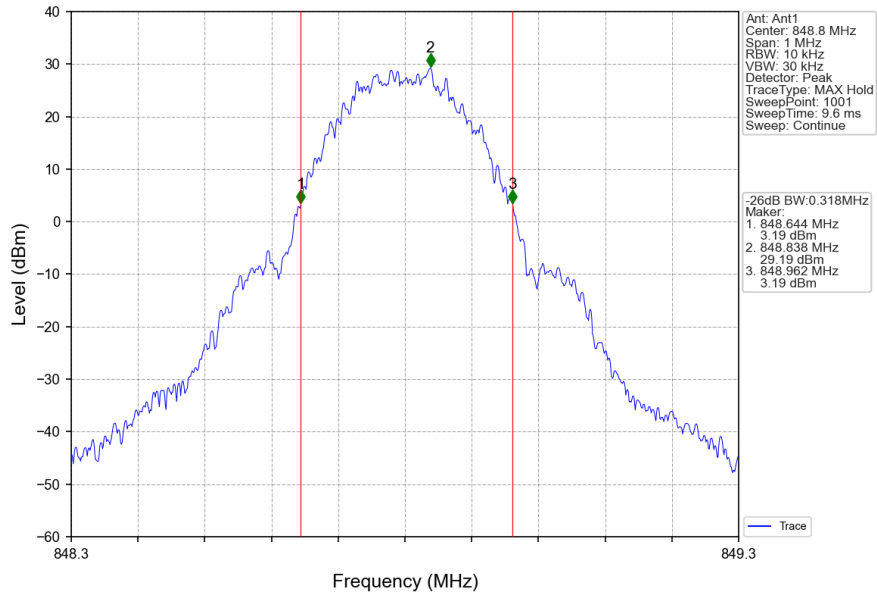
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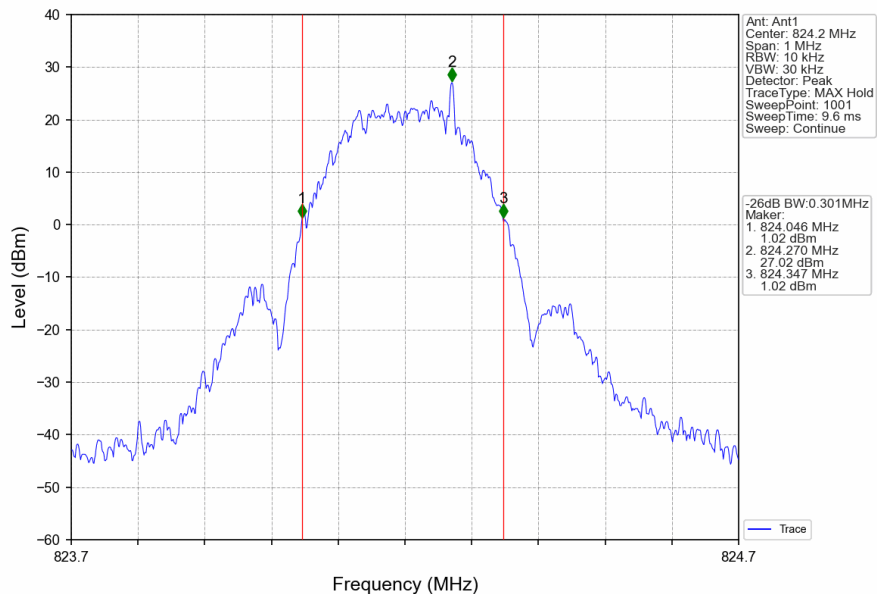
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GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



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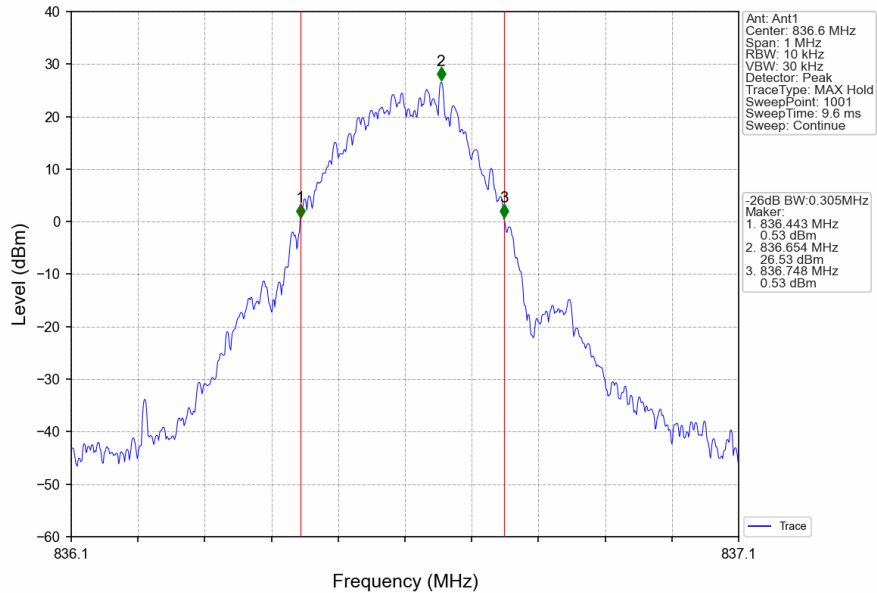
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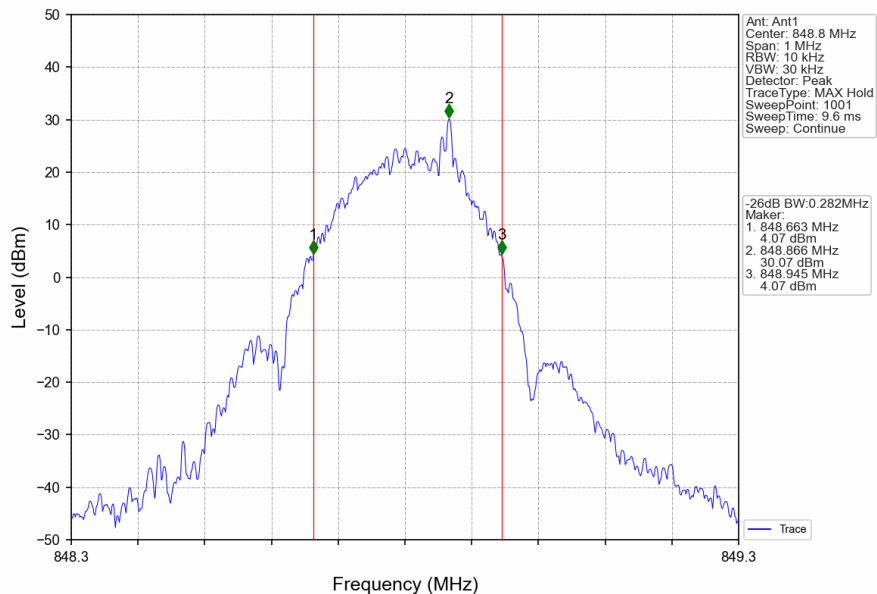
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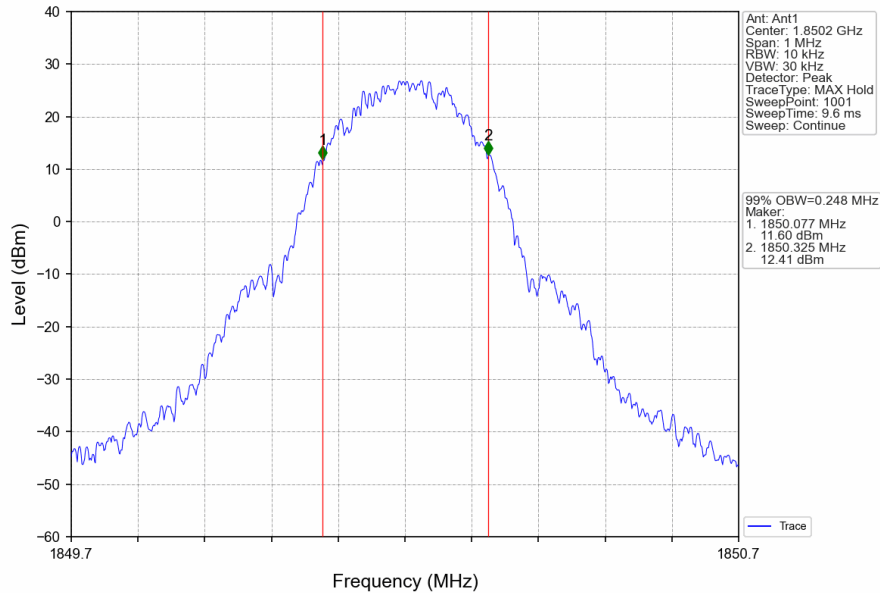
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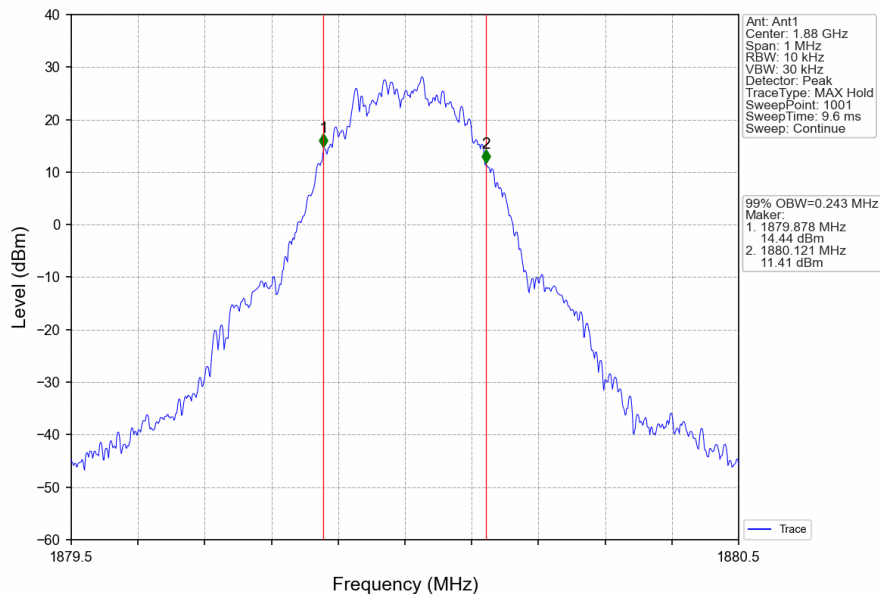
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PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



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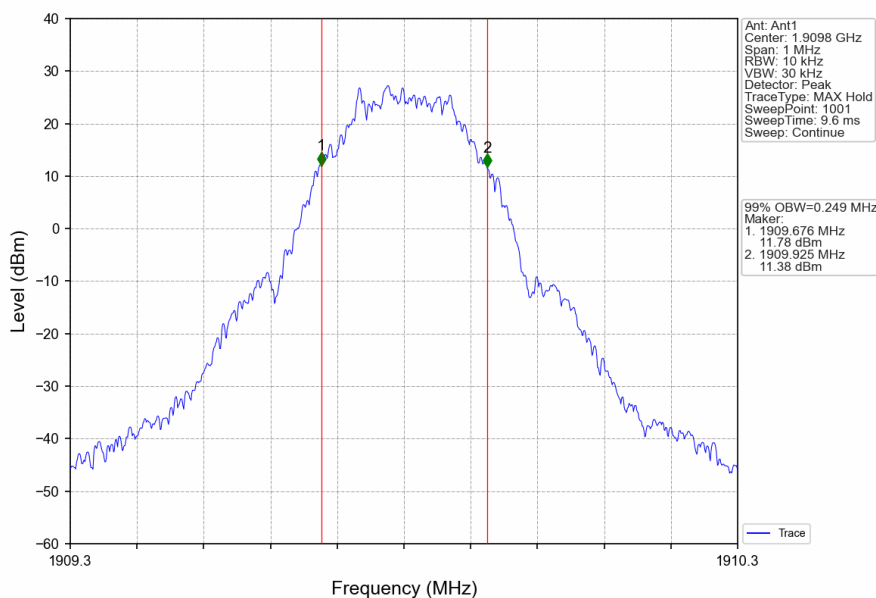
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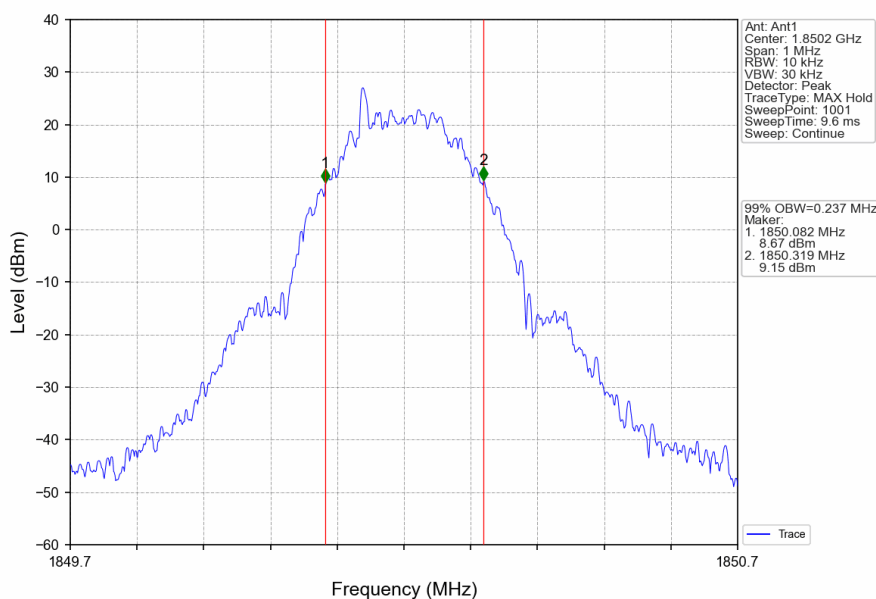
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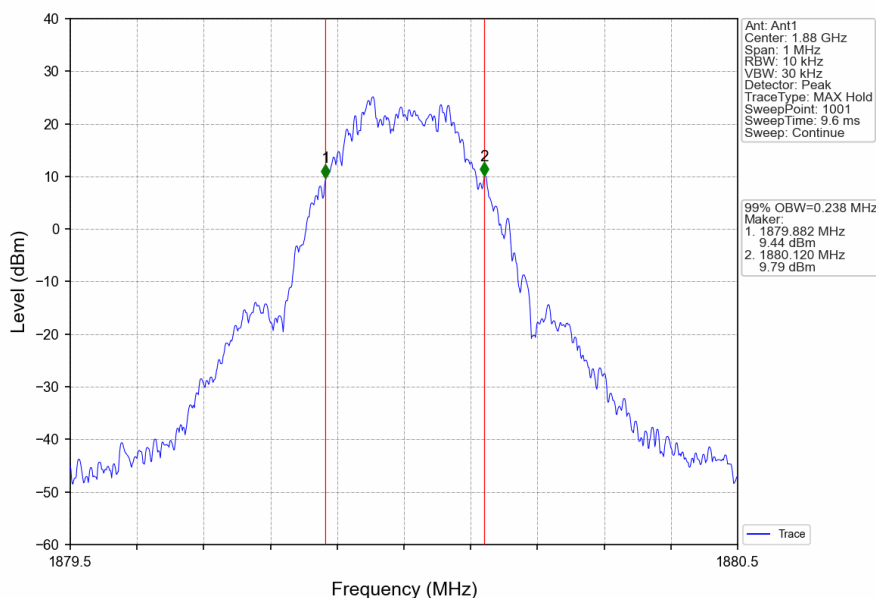
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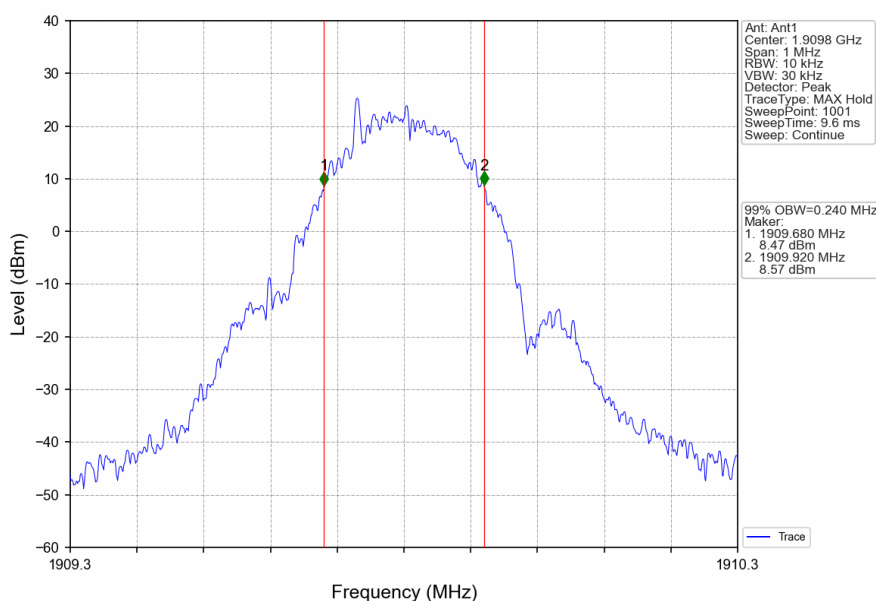
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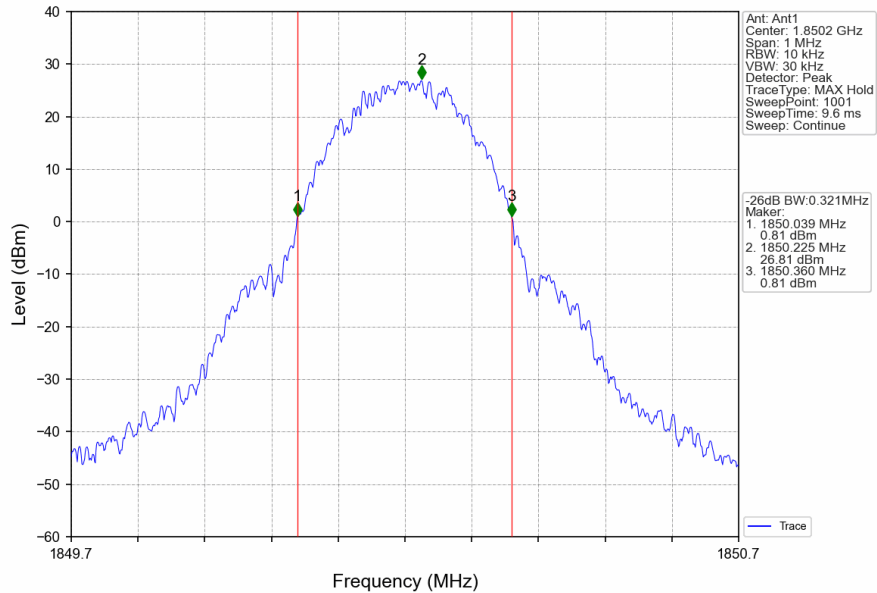
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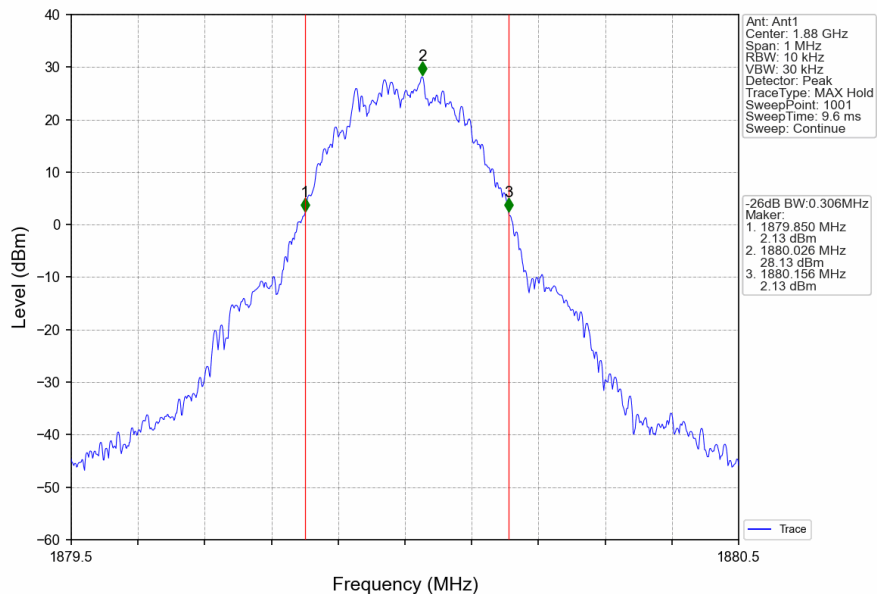
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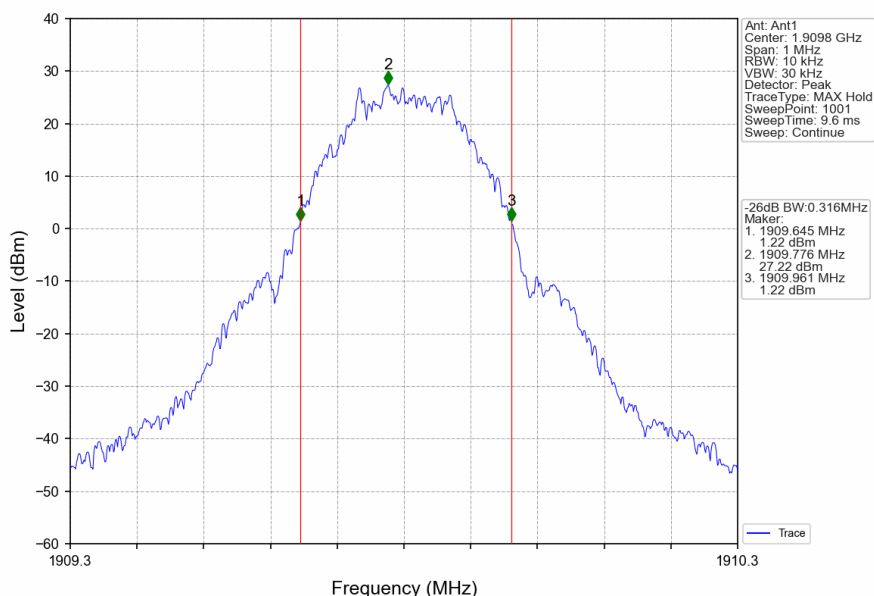
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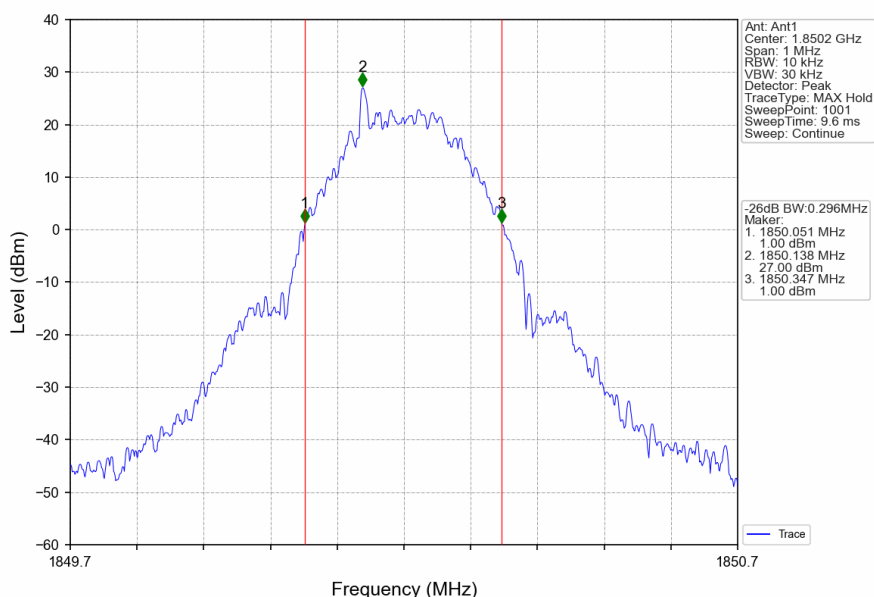
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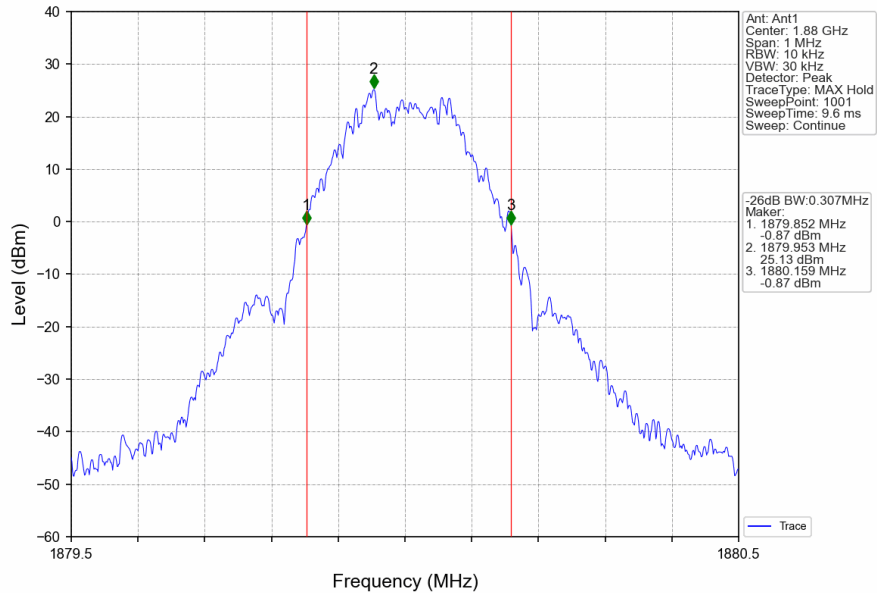
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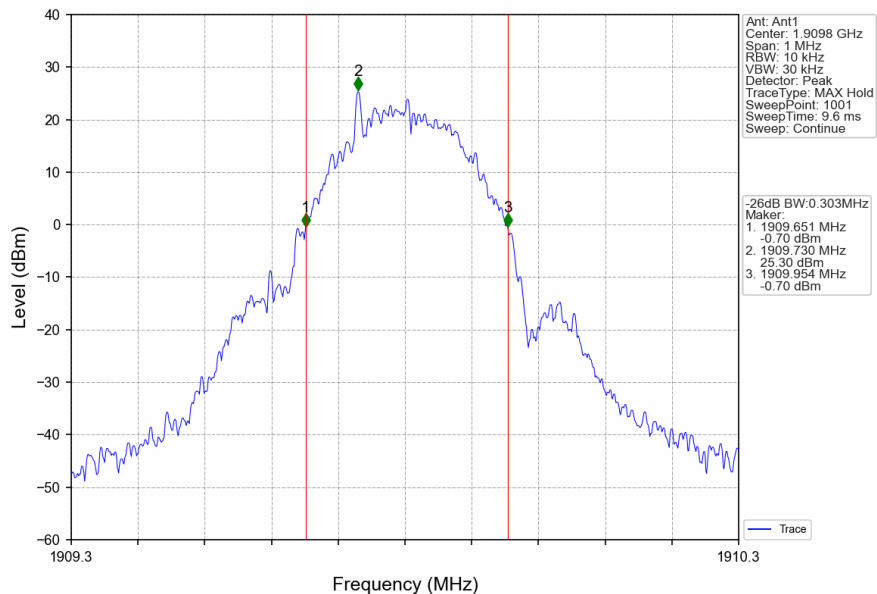
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PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



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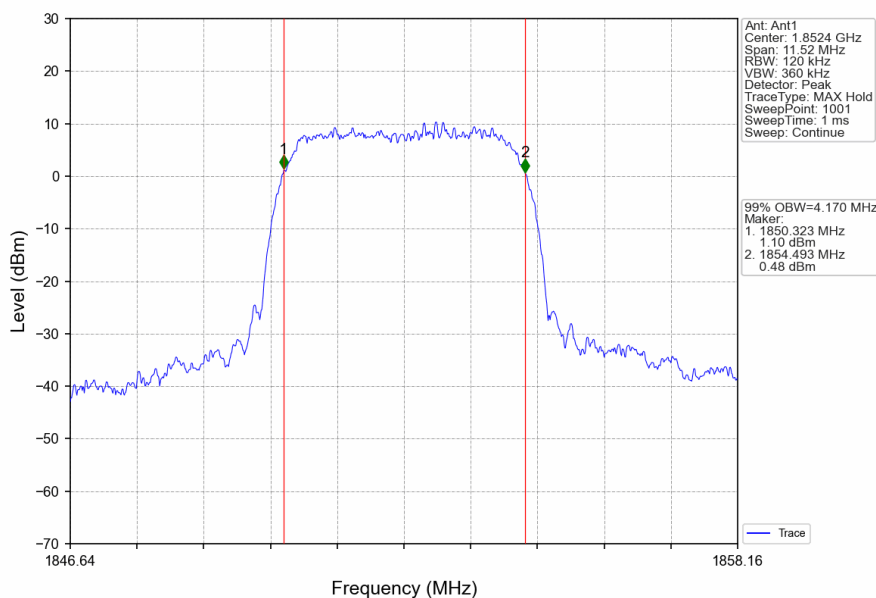
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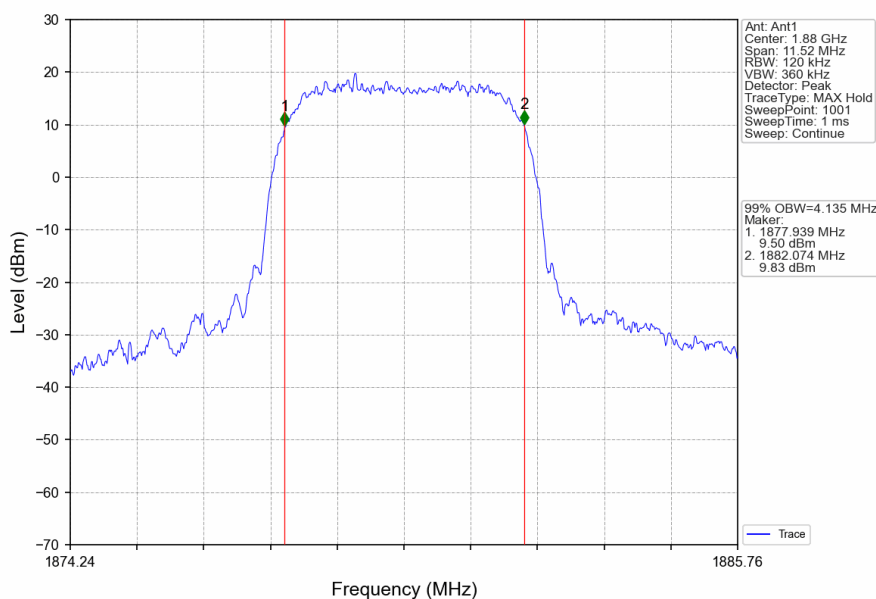
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Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



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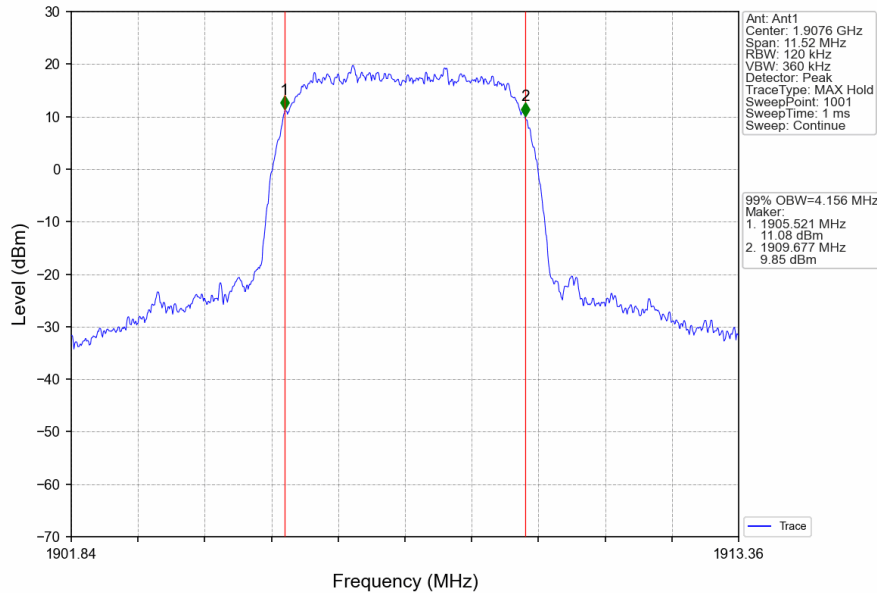
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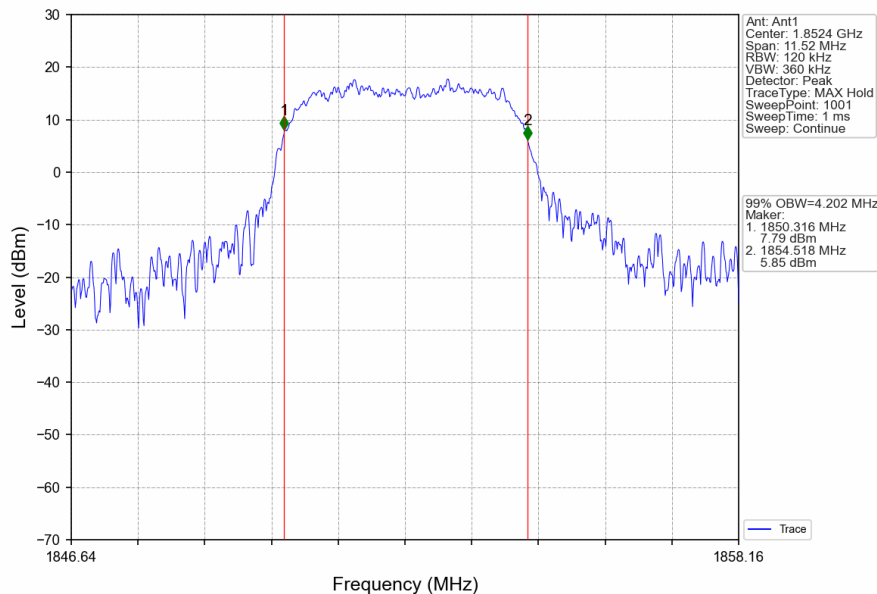
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Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



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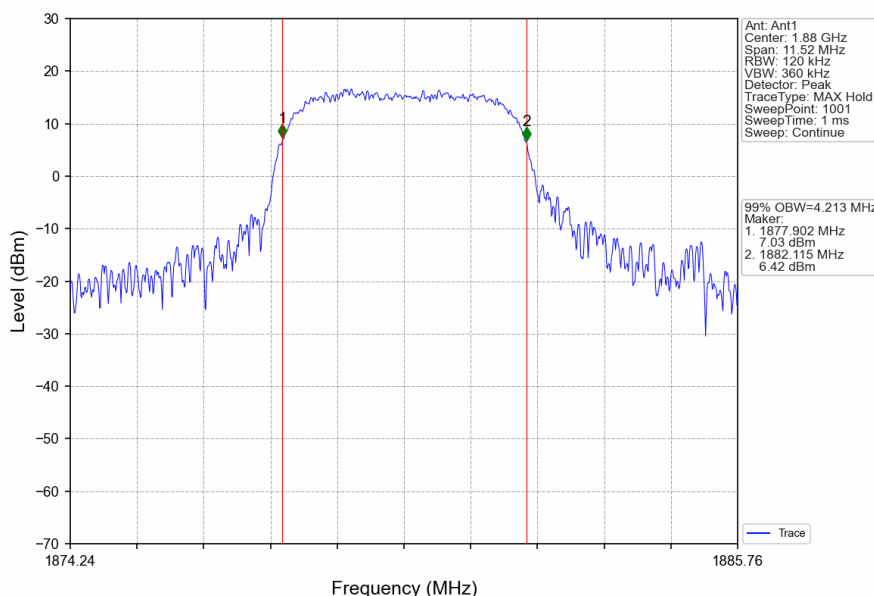
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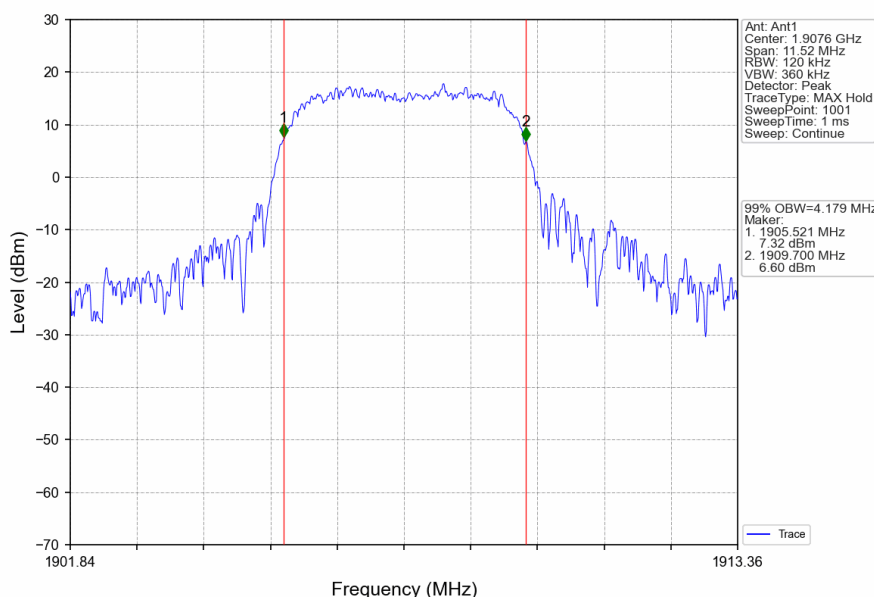
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Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



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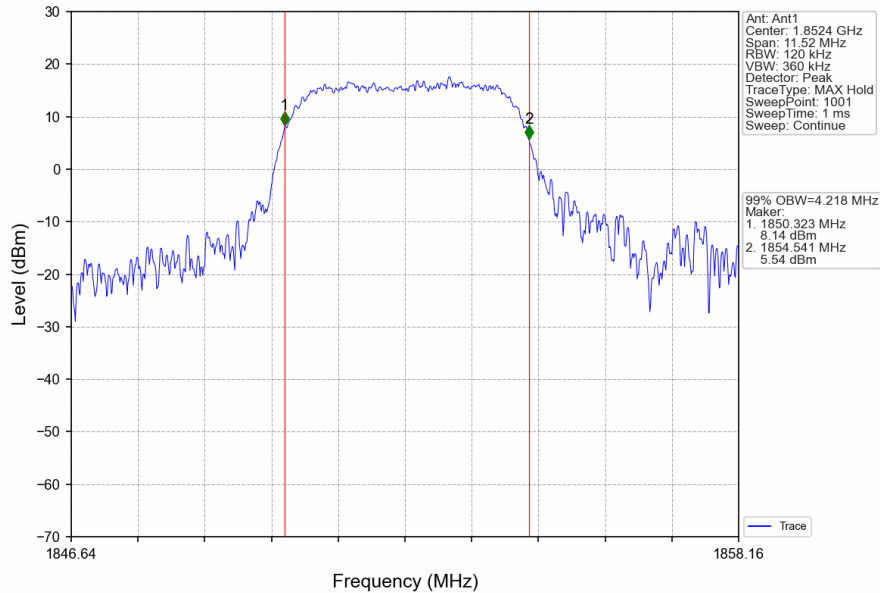
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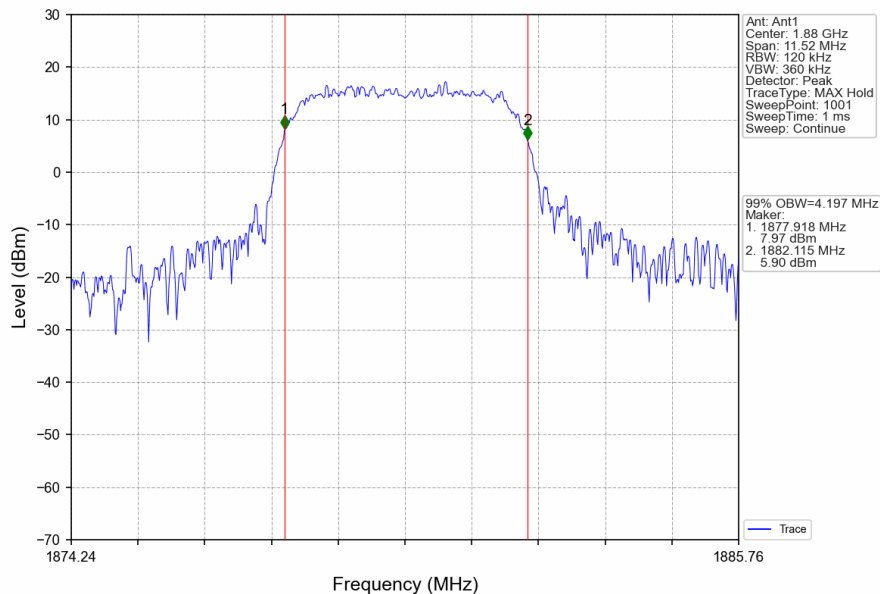
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Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



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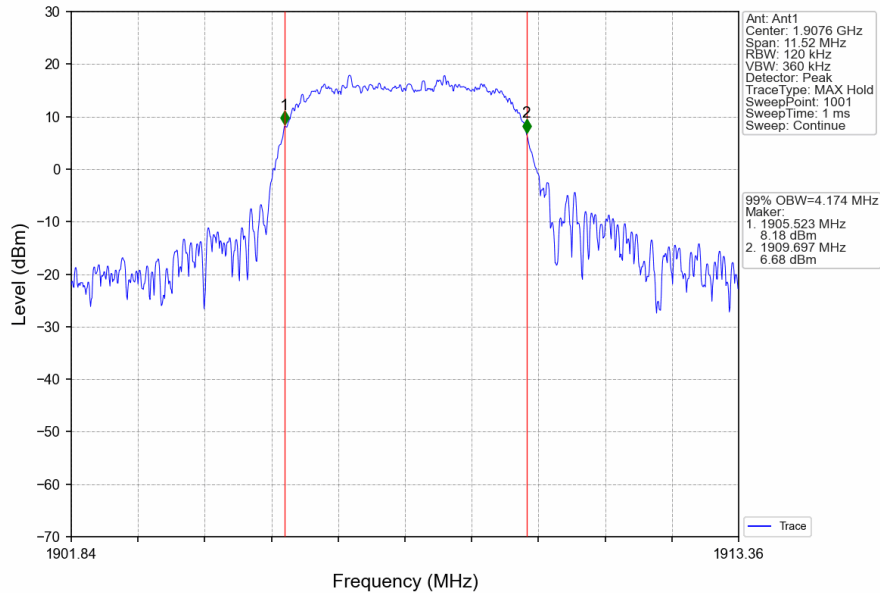
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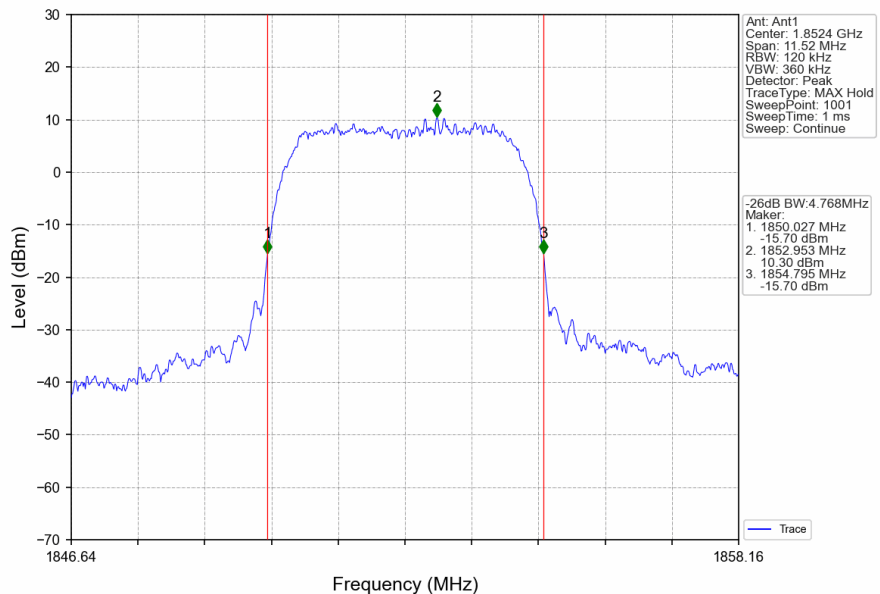
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Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



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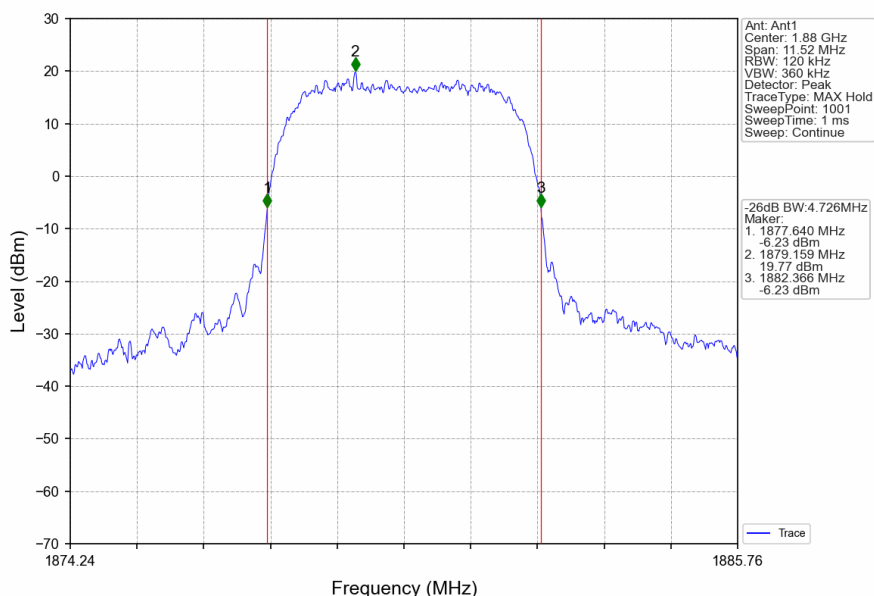
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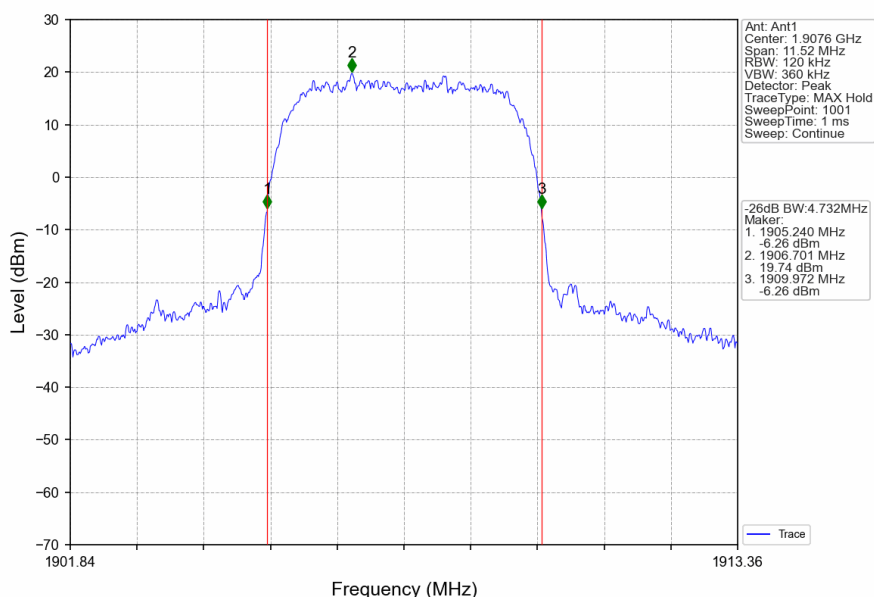
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Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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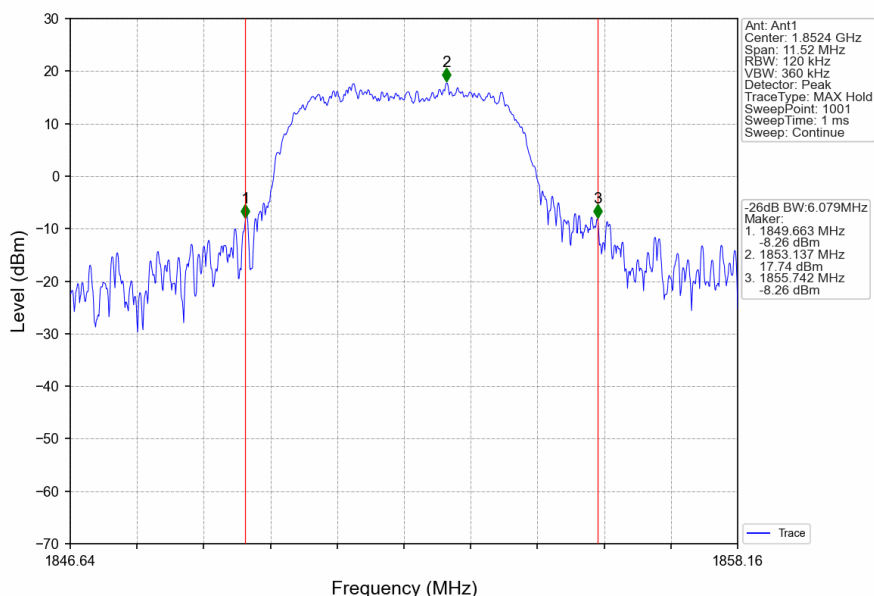
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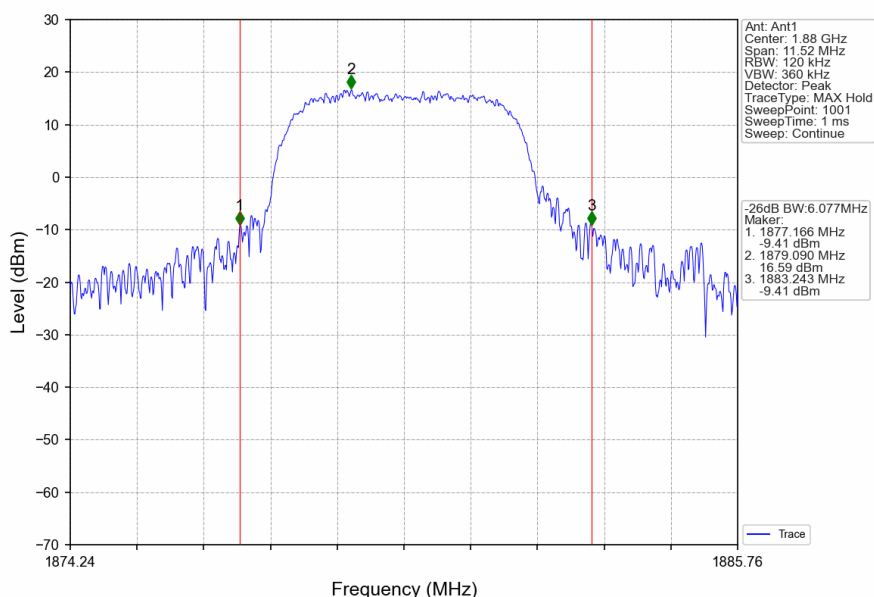
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Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



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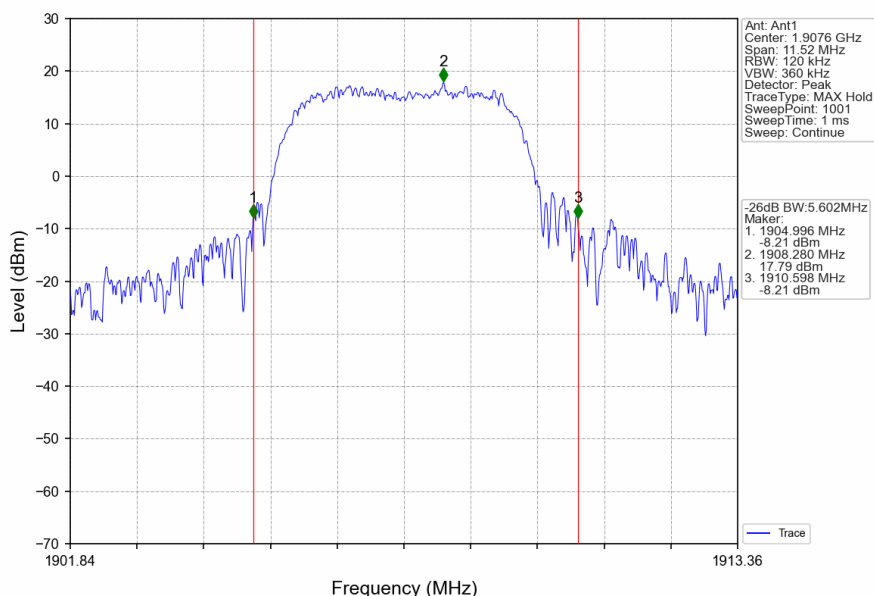
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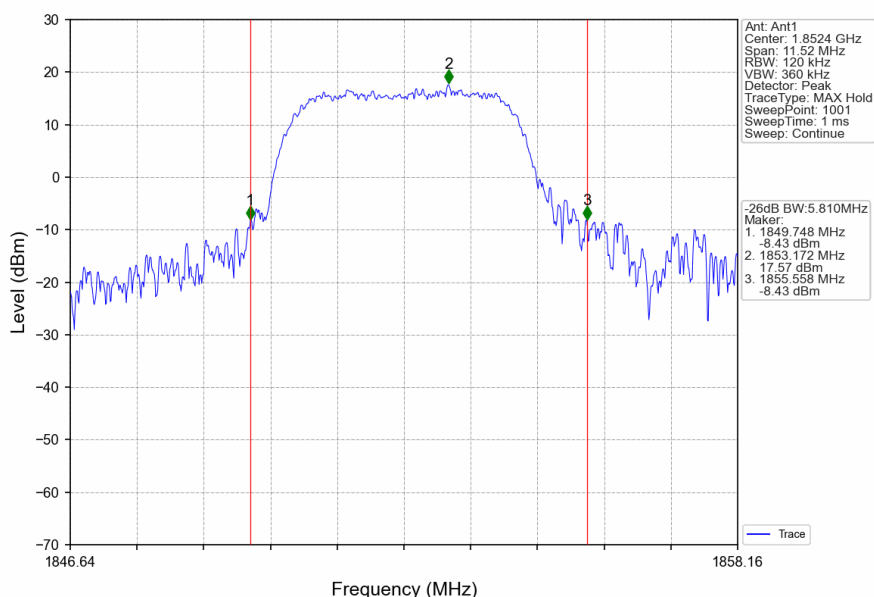
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Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



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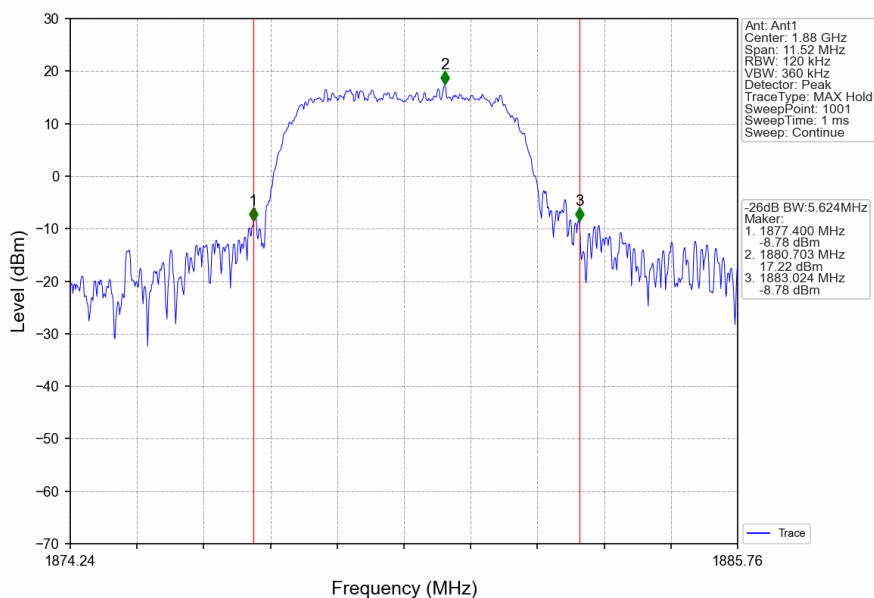
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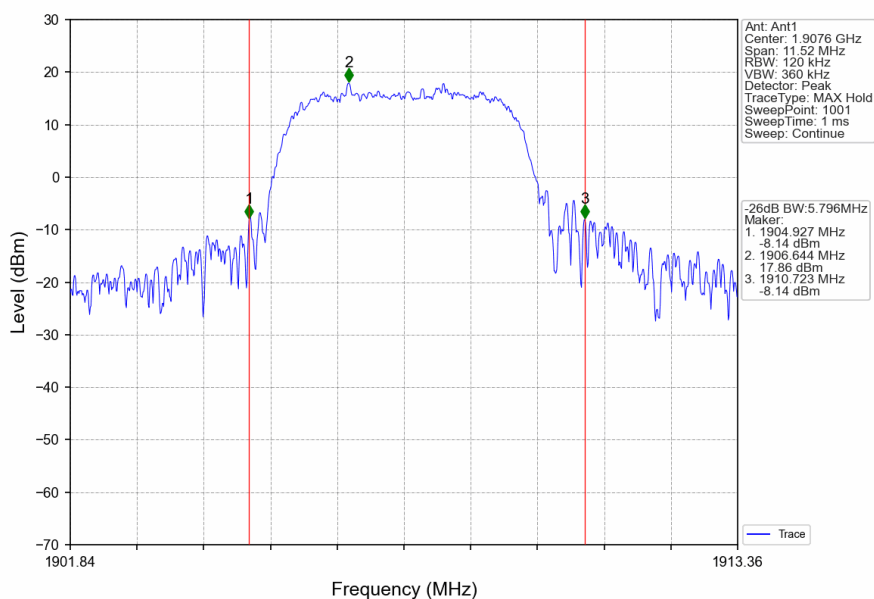
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Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV



Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



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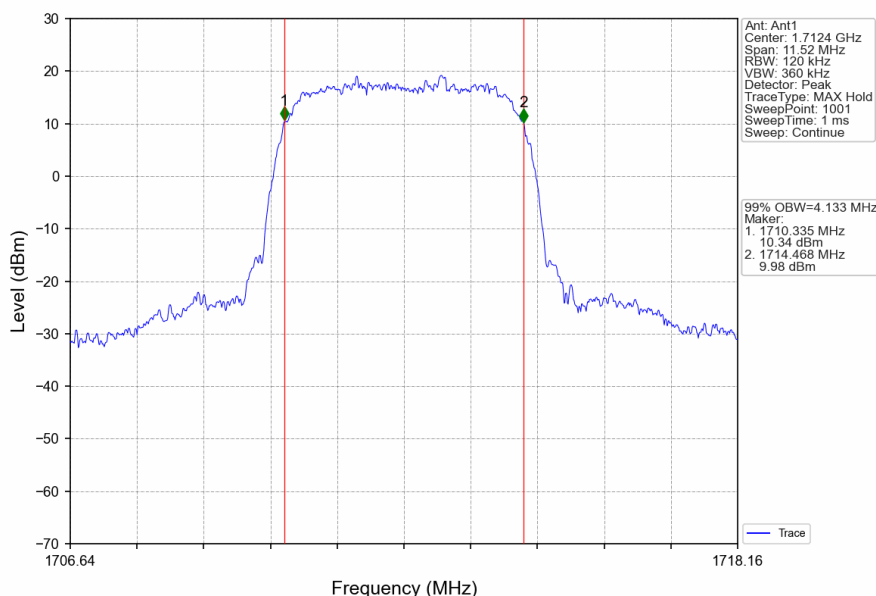
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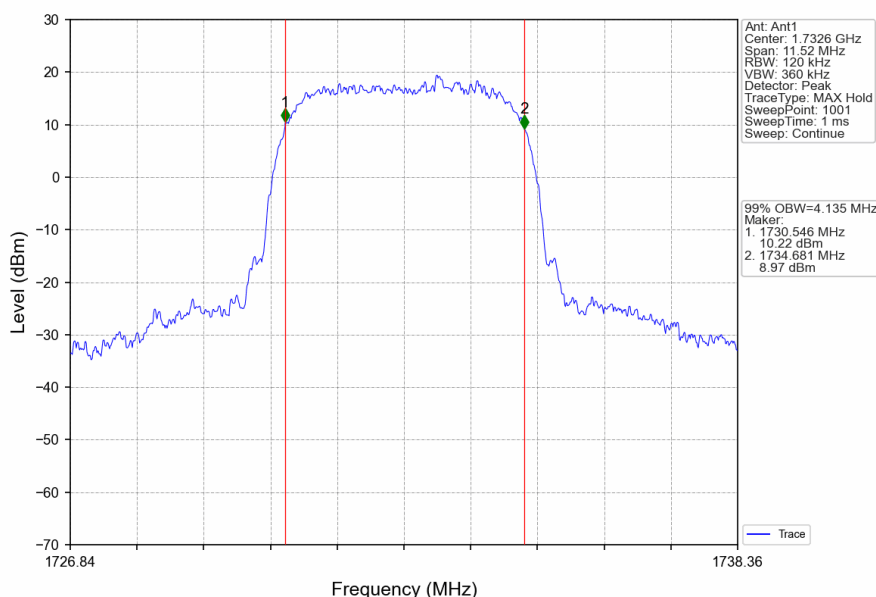
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Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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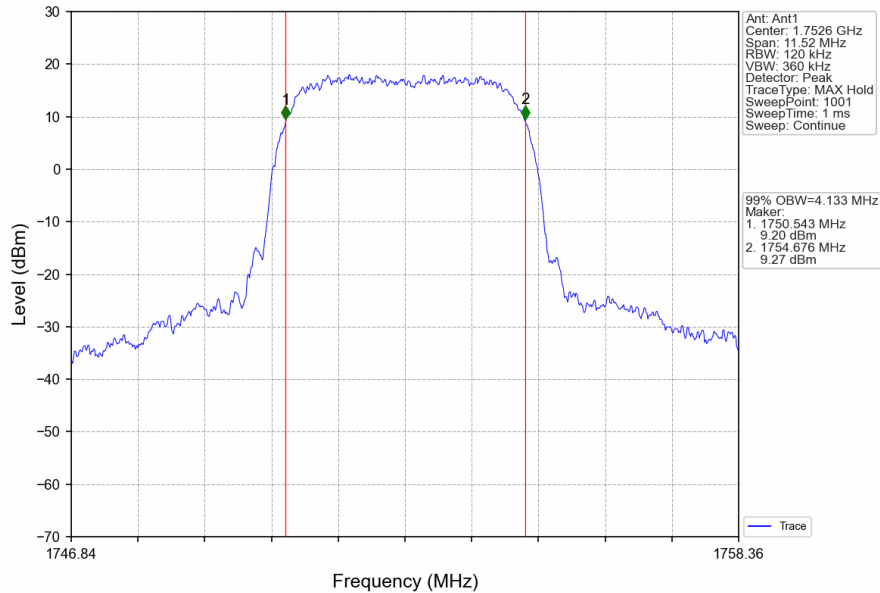
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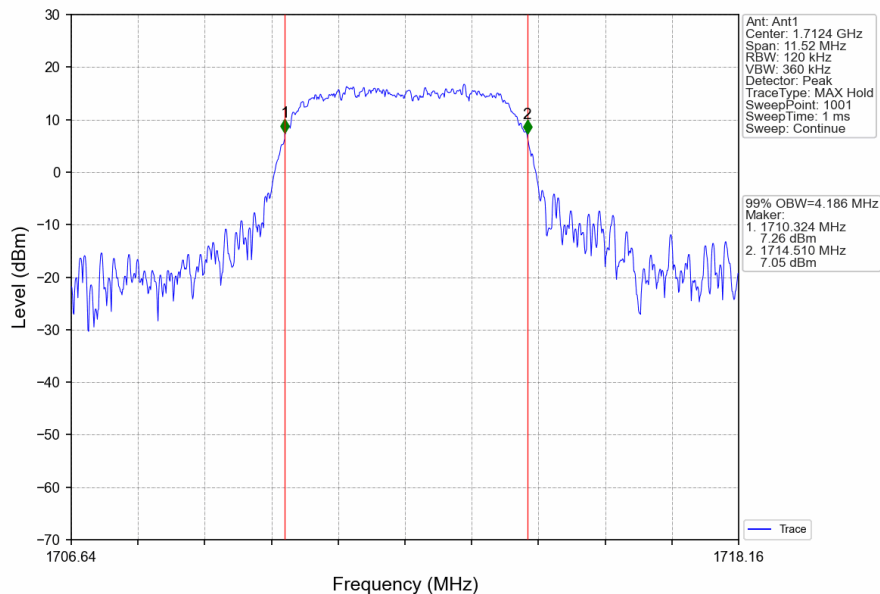
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Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



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