



Compliance Certification Services (Kunshan) Inc.
Shenzhen Branch

Report No.: FYCR220400006402

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TEST REPORT

Application No.: FYCR2204000064ME
Applicant: Guangdong Transtek Medical Electronics Co., Ltd.
Address of Applicant: Zone A, No.105, Dongli Road, Torch Development District, Zhongshan, 528437, Guangdong, China
Manufacturer: Guangdong Transtek Medical Electronics Co., Ltd.
Address of Manufacturer: Zone A, No.105, Dongli Road, Torch Development District, Zhongshan, 528437, Guangdong, China
Factory: Guangdong Transtek Medical Electronics Co., Ltd.
Address of Factory: Zone A, No.105, Dongli Road, Torch Development District, Zhongshan, 528437, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Pro Cellular Blood pressure monitor
Model No.: TMB-2092-G
FCC ID: OU9TMB2092-G
Trade mark: Transtek
Standard(s) : 47 CFR Part 2
47 CFR Part 22 subpart H
47 CFR Part 24 subpart E
Date of Receipt: 2022-04-08
Date of Test: 2022-04-13 to 2022-04-25
Date of Issue: 2022-04-26

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

Kidd Yang
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-04-26		Original

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



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2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Effective (Isotropic) Radiated Power Output Data	47 CFR Part 2 47 CFR Part 22 subpart H 47 CFR Part 24 subpart E	ANSI C63.26, KDB 971168 D01 v03	§ 2.1046, §22.913, §24.232	PASS
Peak-Average Ratio		ANSI C63.26, KDB 971168 D01 v03	§24.232	PASS
Modulation Characteristics		ANSI C63.26, KDB 971168 D01 v03	§ 2.1047	PASS
Bandwidth		ANSI C63.26, KDB 971168 D01 v03	§ 2.1049(h), §22.917, §24.238	PASS
Band Edge Compliance		ANSI C63.26, KDB 971168 D01 v03	§ 2.1051, §22.917, §24.238	PASS
Spurious emissions at antenna terminals		ANSI C63.26, KDB 971168 D01 v03	§ 2.1051, §22.917, §24.238	PASS
Field strength of spurious radiation		ANSI C63.26, KDB 971168 D01 v03	§ 2.1051, §22.917, §24.238	PASS
Frequency stability		ANSI C63.26, KDB 971168 D01 v03	§ 2.1055, §22.355, §24.235	PASS



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4 General Information

4.1 Details of E.U.T.

Power supply:	AC Adapter Model: BLJ06L060100P-U Input: AC 100-240V, 50/60Hz, 0.2A Max Output: DC 6.0V, 1.0A DC 6V(4*AA Batteries)
Cable(s):	DC cable:146cm unshielded
Sample Type:	Fixed production
Support Network:	GPRS, EGPRS
Operation Frequency Band:	GSM850/GSM1900
Modulation Type:	GMSK for GSM/GPRS/EGPRS; 8PSK for EGPRS;
Supported Channel Bandwidth:	200KHz for GSM;
Designation of Emissions	GSM850: 246KGXW, EGPRS850: 242KG7W GSM1900: 245KGXW, EGPRS1900: 246KG7W
Antenna Type:	PIFA
Antenna Gain:	GSM850: -3.17dBi, GSM1900: 2.79dBi
Extreme temp. Tolerance:	-30°C to +50°C
Extreme vol. Limits:	5.1VDC to 6.9VDC (nominal: 6VDC)

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.



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4.3 Test Frequency

Test mode:	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
GSM850	TX	Channel 128	Channel 190	Channel 251
		824.2MHz	836.6 MHz	848.8 MHz
	RX	Channel 128	Channel 190	Channel 251
		869.2 MHz	881.6 MHz	893.8 MHz
Test mode:	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
GSM1900	TX	Channel 512	Channel 661	Channel 810
		1850.2MHz	1880.0 MHz	1909.8 MHz
	RX	Channel 512	Channel 661	Channel 810
		1930.2 MHz	1960.0 MHz	1989.8 MHz

4.4 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	52%	
Atmospheric Pressure:	1015Pa	
Temperature:	TN	25 °C
Voltage:	VL	5.1 V
	VN	6 V
	VH	6.9 V

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



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4.5 Measurement Uncertainty

Test Item	Measurement Uncertainty
Effective (Isotropic) Radiated Power Output Data	$\pm 3.1\text{dB}$ (Below 1GHz), $\pm 4.4\text{dB}$ (Above 1GHz)
Peak-Average Ratio	$\pm 0.8\text{dB}$
Modulation Characteristics	$\pm 0.8\text{dB}$
Bandwidth	$\pm 0.3\%$
Band Edge Compliance	$\pm 2.7\text{dB}$
Spurious emissions at antenna terminals	$\pm 2.7\text{dB}$
Field strength of spurious radiation	$\pm 3.1\text{dB}$ (Below 1GHz), $\pm 4.4\text{dB}$ (Above 1GHz)
Frequency stability	$\pm 5.4 \times 10^{-8}$



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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					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer(10Hz-26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Signal Generator(9kHz-40GHz)	Agilent	N5173B	SEM006-05	2021/7/13	2022/7/12
ESG Vector Signal Generator(250kHz-6GHz)	Agilent	E4438C	SEM006-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2021/7/13	2022/7/12
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021/7/13	2022/7/12

Field strength of spurious radiation(Below 1GHz & Above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2022/7/12
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna(9kHz-30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver(20Hz-8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier (0.1-1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24



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Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz-18GHz)	CLAVIO	BDLNA-0118-352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier(26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier(18GHz-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12

General used equipment

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2021-07-13	2022-07-12
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2021-07-13	2022-07-12
Barometer	DUMAI	DYM3	SEM002-24	2021-07-13	2022-07-12



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6 Radio Spectrum Matter Test Results

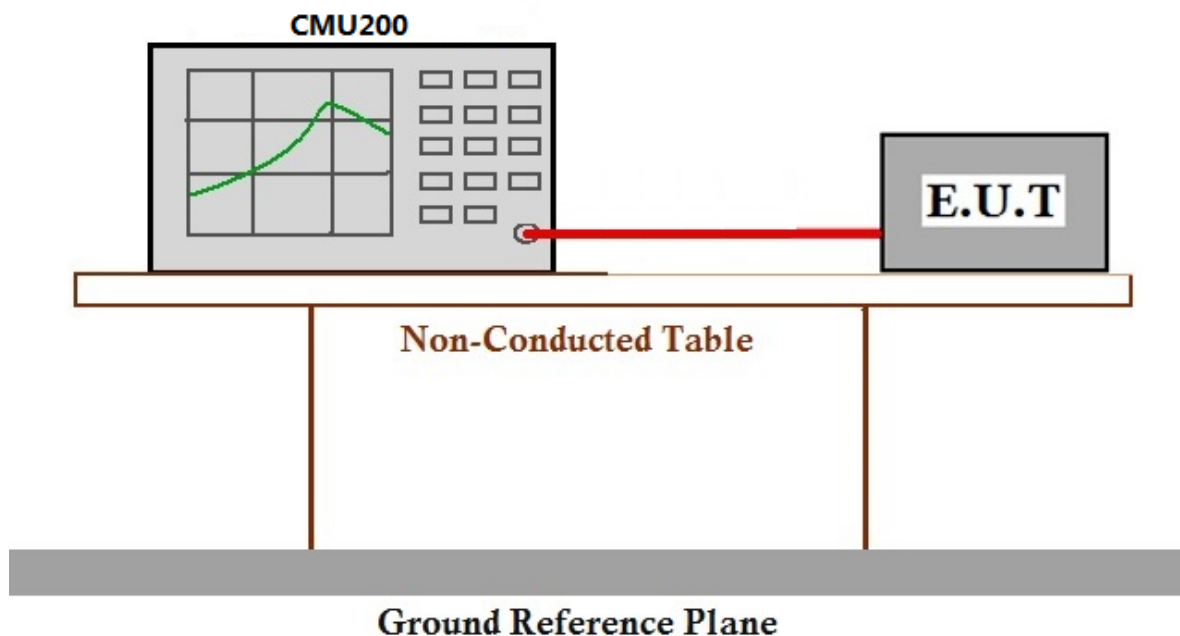
6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement	\$2.1046, \$22.913, \$24.232
Test Method:	ANSI C63.26, KDB 971168 D01 v03
Limit:	ERP≤7W(GPRS850) EIRP≤2W(GPRS1900)

6.1.1 E.U.T. Operation

Operating Environment:			
Temperature:	22.7 °C	Humidity:	65.2 % RH
		Atmospheric Pressure:	1015 mbar

6.1.2 Test Setup Diagram



6.1.3 Measurement Procedure and Data

Please Refer to Appendix for Details



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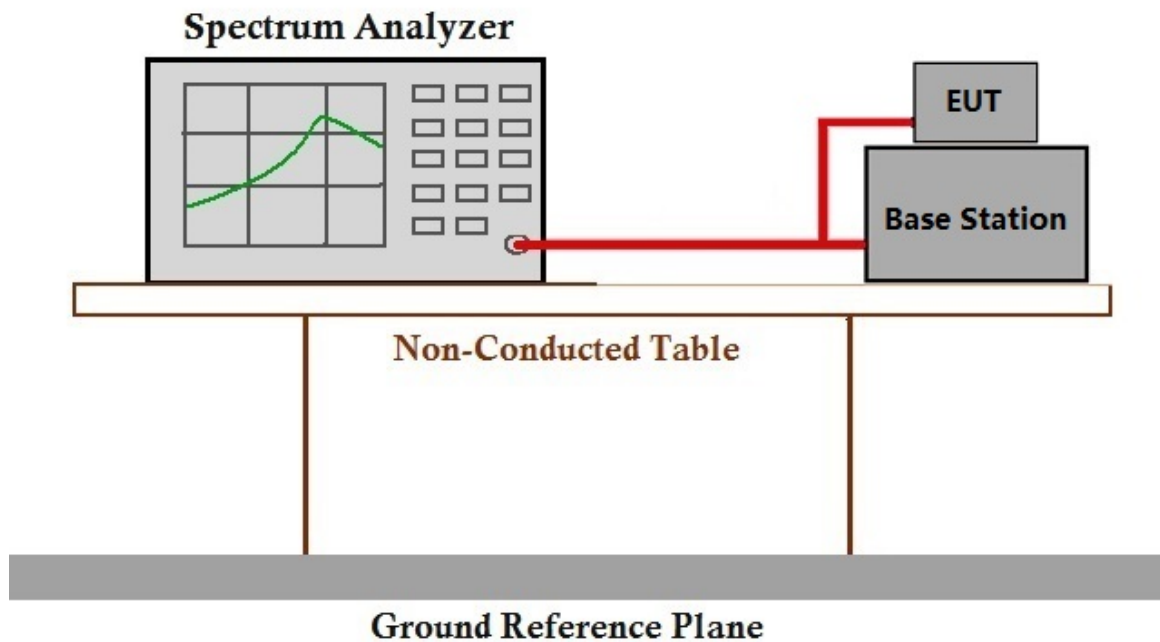
6.2 Peak-Average Ratio

Test Requirement §24.232
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: ≤13dB

6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 65.2 % RH Atmospheric Pressure: 1015 mbar

6.2.2 Test Setup Diagram



6.2.3 Measurement Procedure and Data

Please Refer to Appendix for Details



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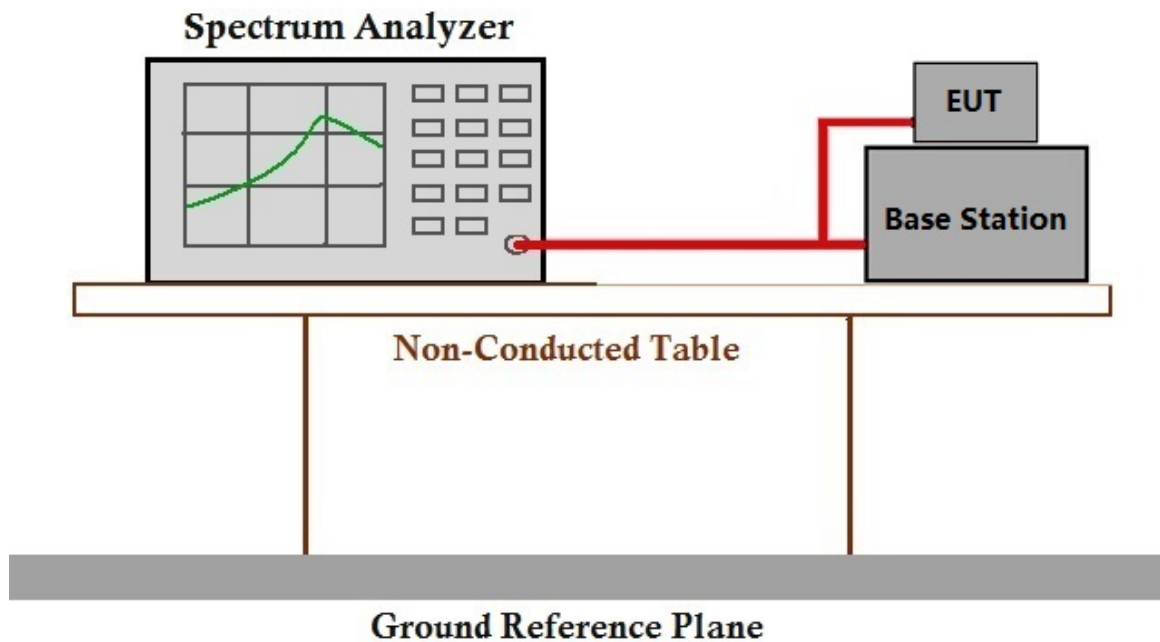
6.3 Modulation Characteristics

Test Requirement §2.1047
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: Digital modulation

6.3.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 65.2 % RH Atmospheric Pressure: 1015 mbar

6.3.2 Test Setup Diagram



6.3.3 Measurement Procedure and Data

Note: this device uses digital modulation.



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6.4 Bandwidth

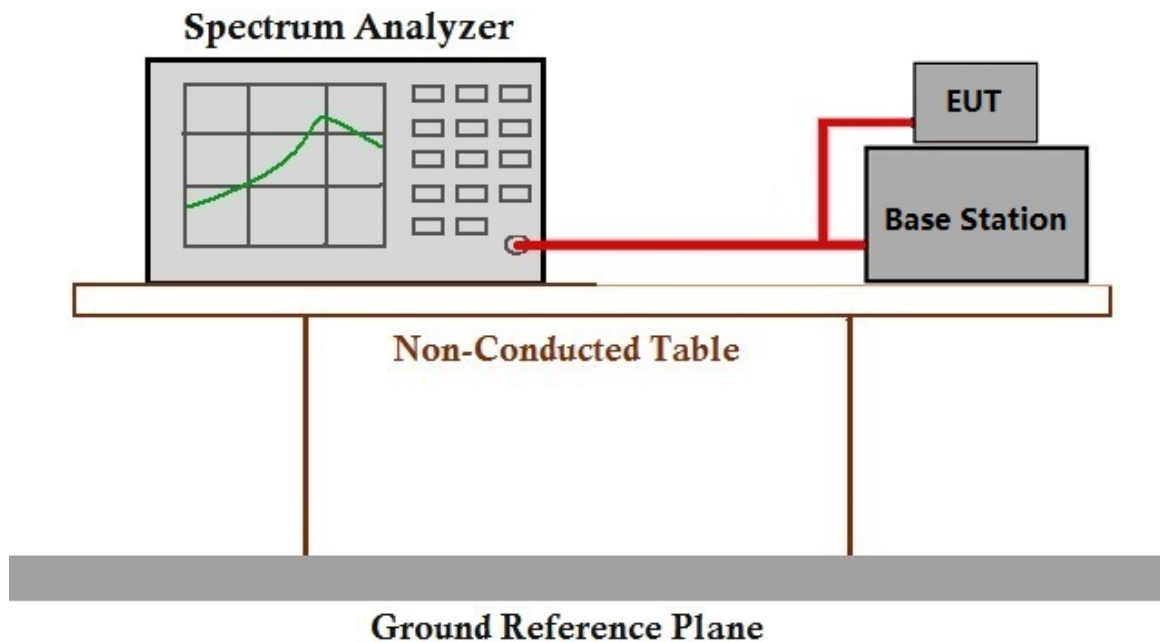
Test Requirement	\$2.1049(h), \$22.917, \$24.238
Test Method:	ANSI C63.26, KDB 971168 D01 v03
Limit:	OBW: No limit
	EBW: No limit

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 65.2 % RH Atmospheric Pressure: 1015 mbar

6.4.2 Test Setup Diagram



6.4.3 Measurement Procedure and Data

Please Refer to Appendix for Details



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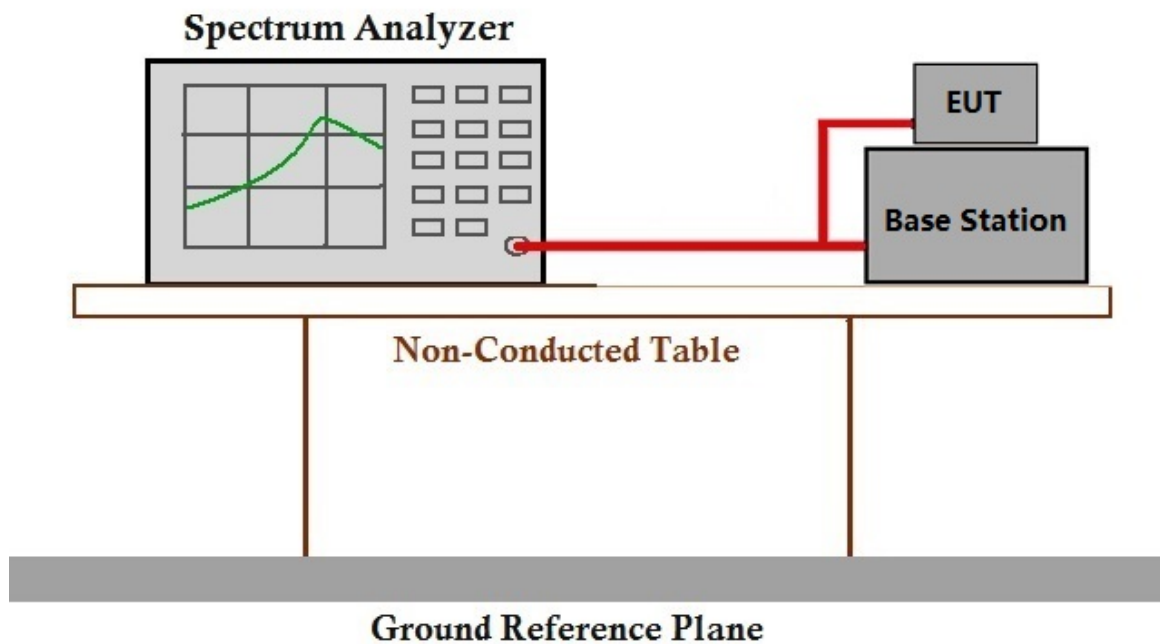
6.5 Band Edge Compliance

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.

6.5.1 E.U.T. Operation

Operating Environment:			
Temperature:	22.7 °C	Humidity:	65.2 % RH
		Atmospheric Pressure:	1015 mbar

6.5.2 Test Setup Diagram



6.5.3 Measurement Procedure and Data

Please Refer to Appendix for Details



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6.6 Spurious emissions at antenna terminals

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

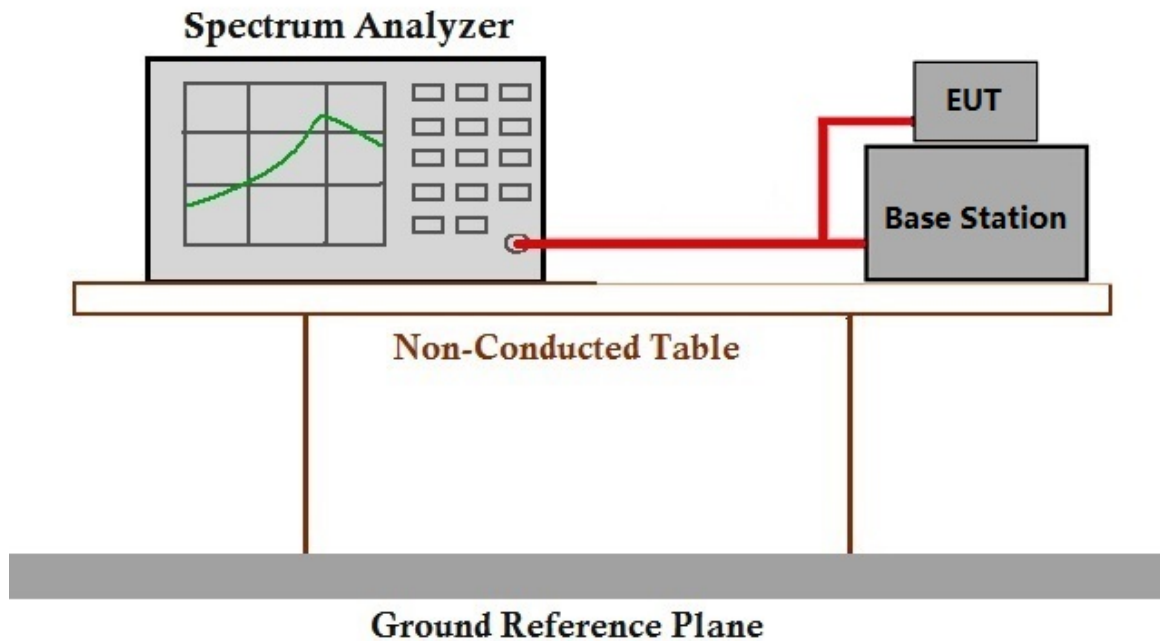
6.6.1 E.U.T. Operation

Operating Environment:
Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

6.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting mode

6.6.3 Test Setup Diagram



6.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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6.7 Field strength of spurious radiation

Test Requirement §2.1051, §22.917, §24.238,
Test Method: ANSI C63.26, KDB 971168 D01 v03
Measurement Distance: 3m
Limit: $\leq -13\text{dBm}$

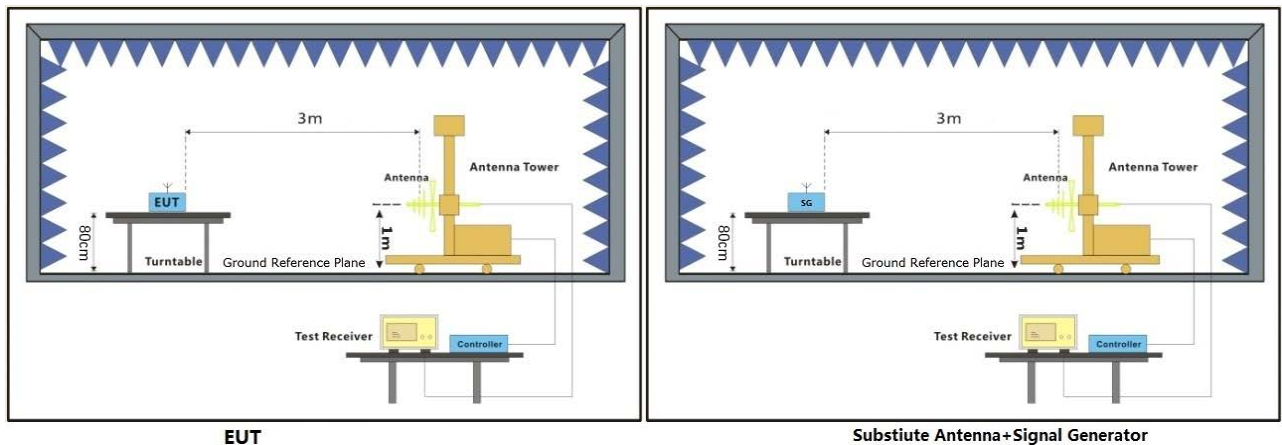
6.7.1 E.U.T. Operation

Operating Environment:
Temperature: 22.6 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

6.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting mode

6.7.3 Test Setup Diagram



6.7.4 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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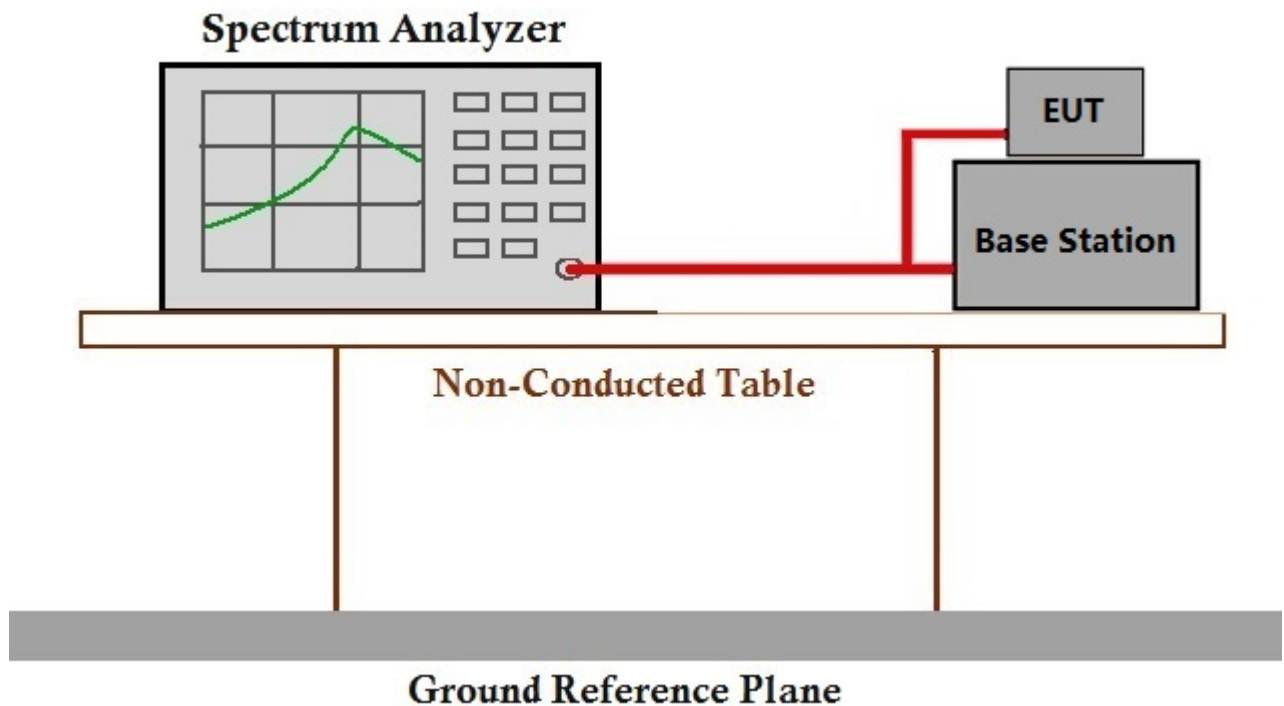
6.8 Frequency stability

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

6.8.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 65.2 % RH Atmospheric Pressure: 1015 mbar

6.8.2 Test Setup Diagram



6.8.3 Measurement Procedure and Data

Please Refer to Appendix for Details



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7 Test Setup Photo

Refer to Appendix – Test Setup Photos for FYCR2204000064ME

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for FYCR2204000064ME



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Appendix

1.Effective (Isotropic) Radiated Power Output Data

Test band: GSM850										
Conducted output power(dBm)					Antenna gain (dBd)	Antenna gain (dBi)	FCC: ERP(dBm)			Limit (dBm)
Channel		128	190	251			128	190	251	
GSM (GMSK)	GSM	31.19	31.21	31.12	-5.32	-3.17	25.87	25.89	25.8	38.45
GPRS (GMSK)	1 TX Slot	31.21	31.24	31.13	-5.32	-3.17	25.89	25.92	25.81	38.45
	2 TX Slots	29.84	29.81	29.77	-5.32	-3.17	24.52	24.49	24.45	38.45
	3 TX Slots	27.76	27.86	27.89	-5.32	-3.17	22.44	22.54	22.57	38.45
	4 TX Slots	25.72	25.97	25.91	-5.32	-3.17	20.4	20.65	20.59	38.45
EGPRS (8PSK)	1 TX Slot	24.54	24.69	24.56	-5.32	-3.17	19.22	19.37	19.24	38.45
	2 TX Slots	23.49	23.55	23.56	-5.32	-3.17	18.17	18.23	18.24	38.45
	3 TX Slots	21.77	21.95	21.99	-5.32	-3.17	16.45	16.63	16.67	38.45
	4 TX Slots	20.84	21.05	20.92	-5.32	-3.17	15.52	15.73	15.6	38.45

Test band: GSM1900									
Conducted output power(dBm)					Antenna gain (dBi)	FCC: EIRP(dBm)			Limit (dBm)
Channel		512	661	810		512	661	810	
GSM (GMSK)	GSM	30.13	29.89	29.87	2.79	32.92	32.68	32.66	33
GPRS (GMSK)	1 TX Slot	30.15	29.9	29.89	2.79	32.94	32.69	32.68	33
	2 TX Slots	29.1	28.9	28.98	2.79	31.89	31.69	31.77	33
	3 TX Slots	26.84	26.98	27.27	2.79	29.63	29.77	30.06	33
	4 TX Slots	25.22	25.38	25.82	2.79	28.01	28.17	28.61	33
EGPRS (8PSK)	1 TX Slot	25.35	25.48	25.89	2.79	28.14	28.27	28.68	33
	2 TX Slots	24.24	24.39	24.79	2.79	27.03	27.18	27.58	33
	3 TX Slots	22.49	22.73	23.21	2.79	25.28	25.52	26	33
	4 TX Slots	21.01	21.22	21.7	2.79	23.8	24.01	24.49	33

Note:

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



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2. Peak-Average Ratio

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	10.00	≤ 13	Pass
			836.6	9.87	≤ 13	Pass
			848.8	4.41	≤ 13	Pass
	EGPRS	4 TX Slots	824.2	9.76	≤ 13	Pass
			836.6	8.63	≤ 13	Pass
			848.8	8.92	≤ 13	Pass

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	9.81	≤ 13	Pass
			1880	10.22	≤ 13	Pass
			1909.8	3.95	≤ 13	Pass
	EGPRS	4 TX Slots	1850.2	12.75	≤ 13	Pass
			1880	8.69	≤ 13	Pass
			1909.8	8.87	≤ 13	Pass



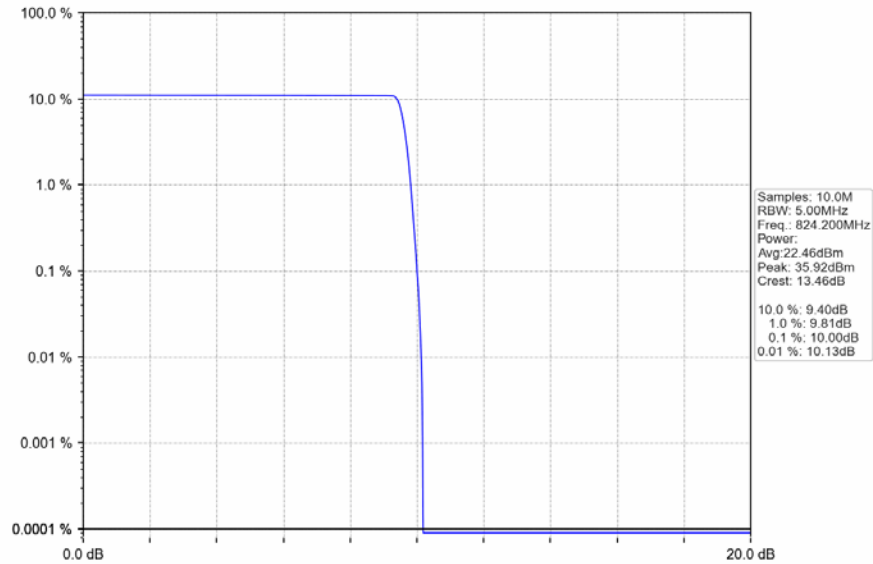
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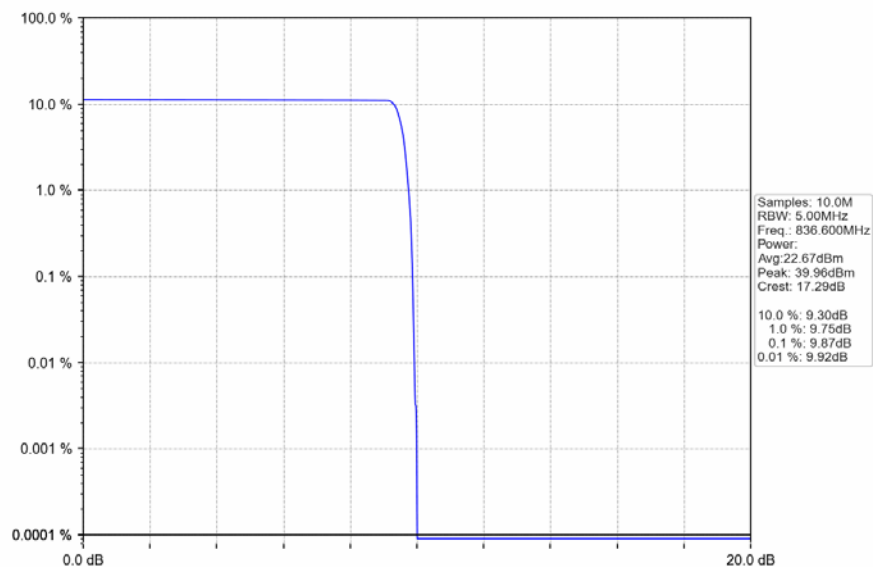
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GSM850_GPRS_LCH_824.2MHz_4 TX Slots_NTNV



GSM850_GPRS_MCH_836.6MHz_4 TX Slots_NTNV

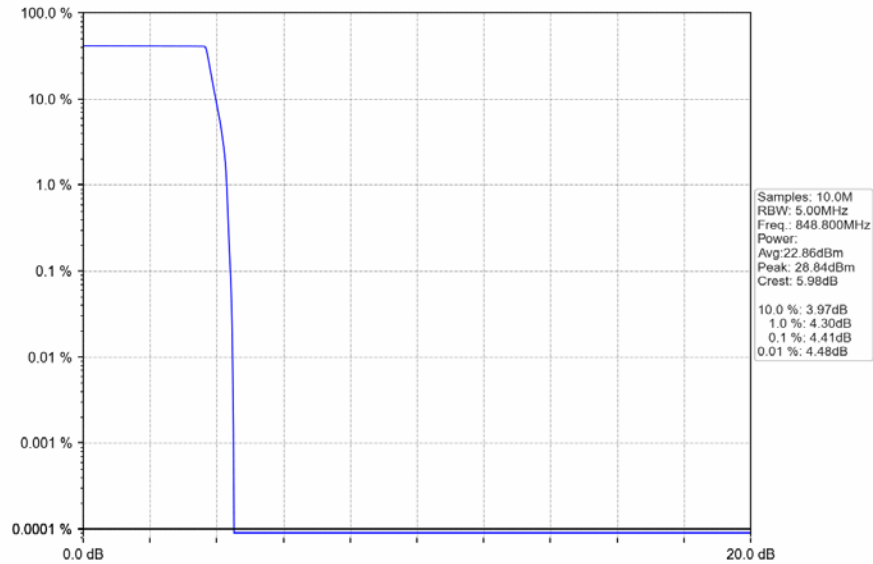


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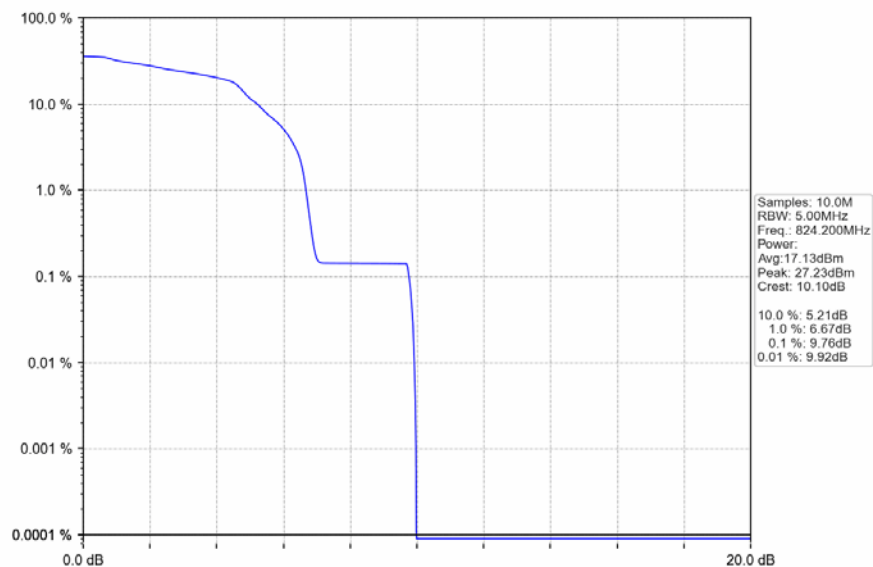
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GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV



GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV

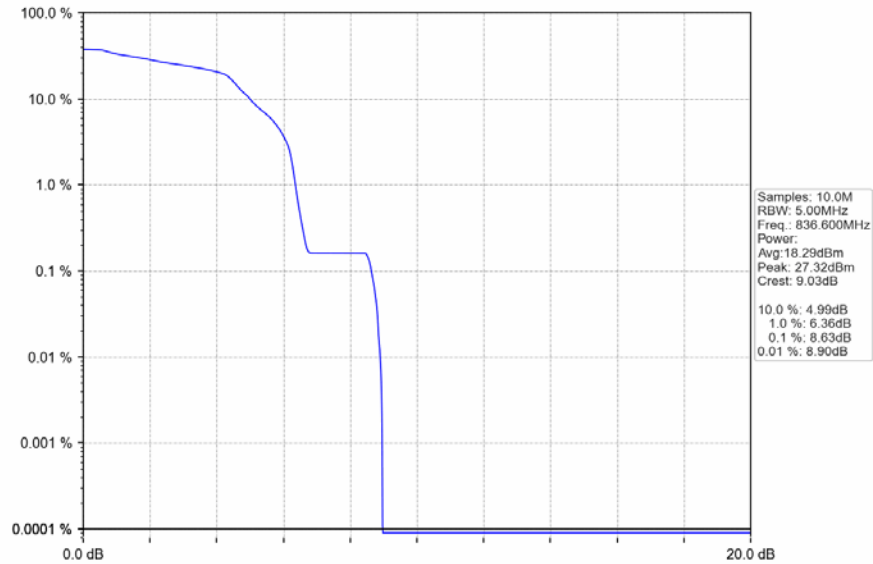


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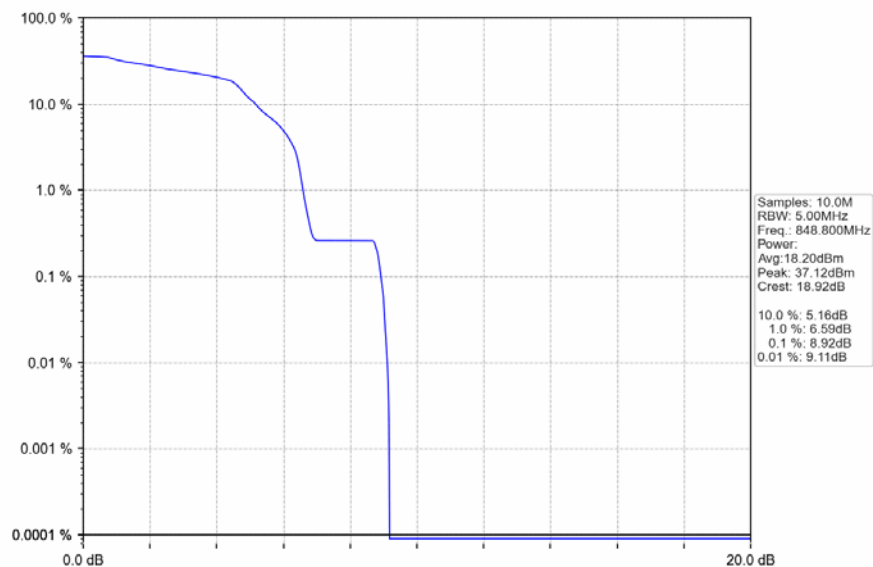
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GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV

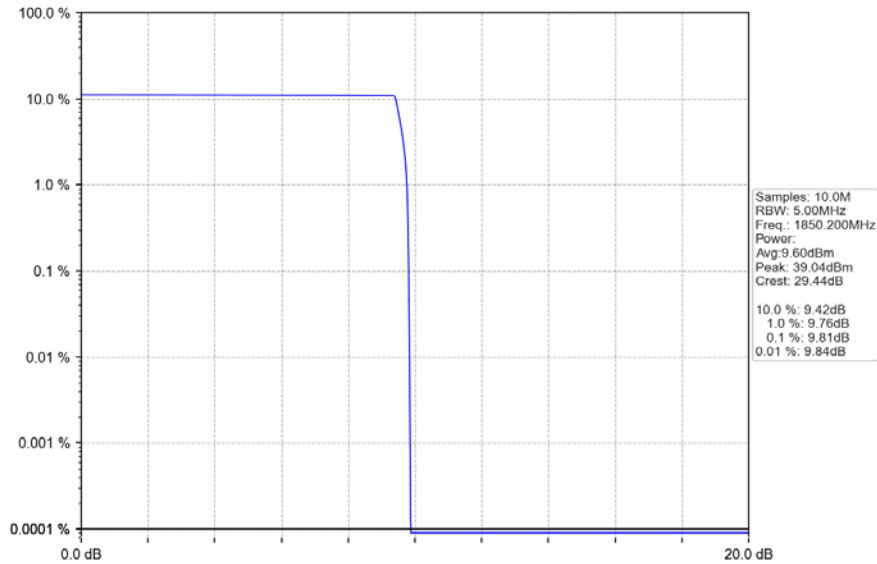


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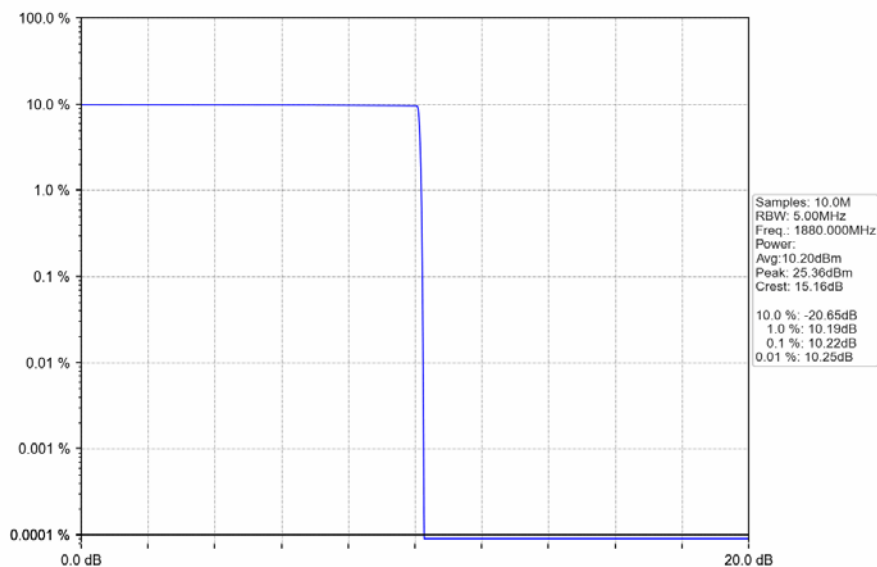
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PCS1900_GPRS_LCH_1850.2MHz_4 TX Slots_NTNV



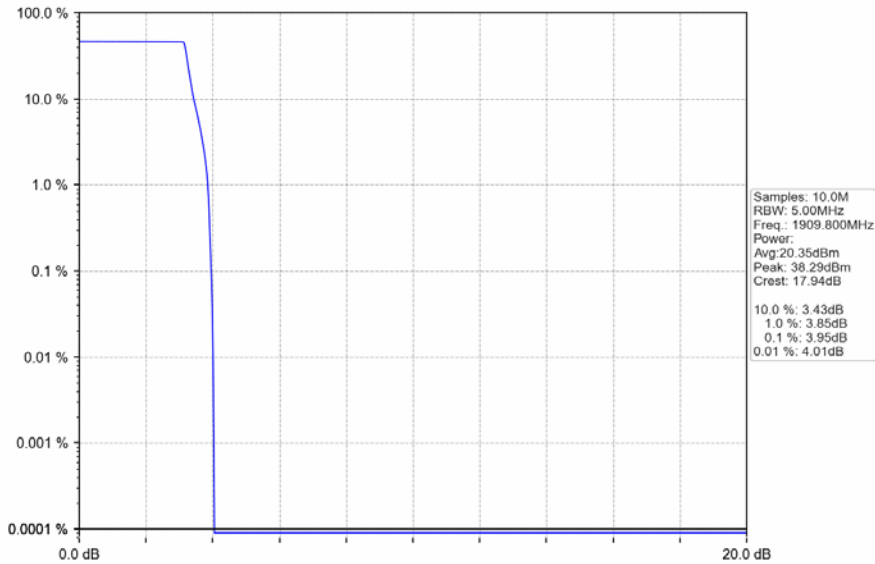
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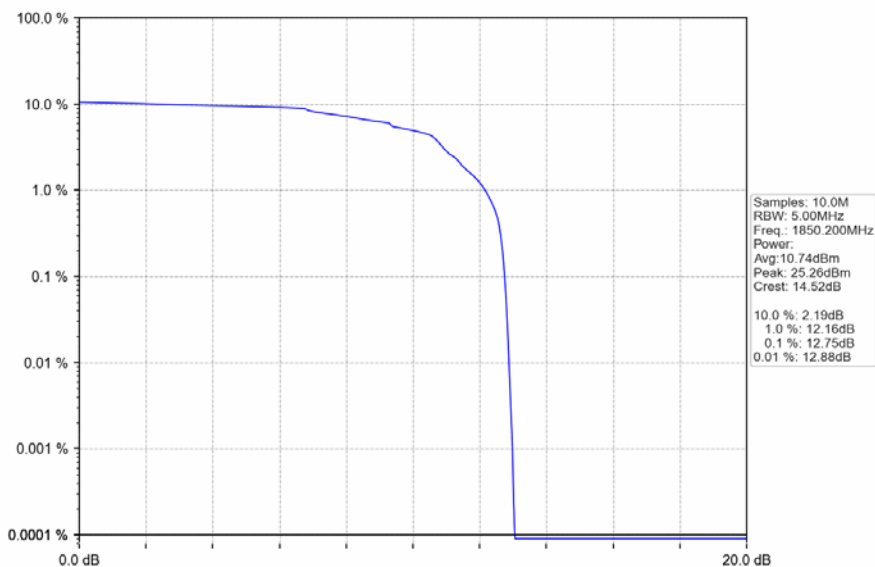
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PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



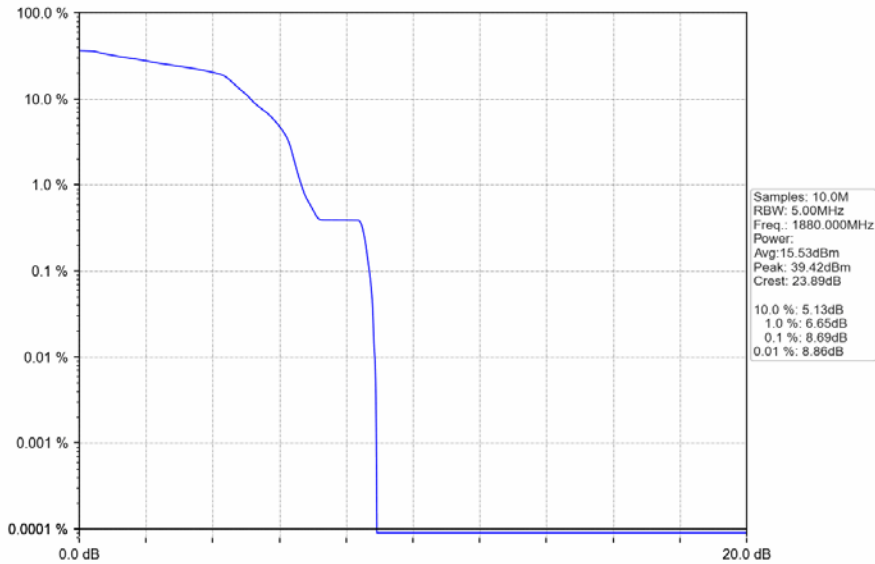
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



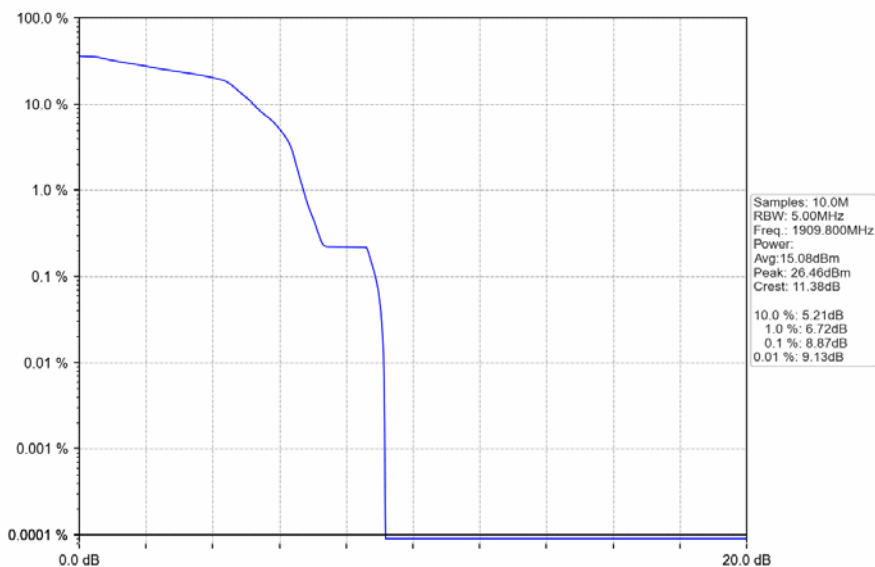
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PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV



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3. Bandwidth

Band: GSM850					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	824.2	0.238	Pass
			836.6	0.246	Pass
			848.8	0.242	Pass
	EGPRS	1 TX Slot	824.2	0.242	Pass
			836.6	0.241	Pass
			848.8	0.236	Pass
Band: PCS1900					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	1850.2	0.245	Pass
			1880	0.245	Pass
			1909.8	0.245	Pass
	EGPRS	1 TX Slot	1850.2	0.245	Pass
			1880	0.238	Pass
			1909.8	0.246	Pass

Band: GSM850					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	824.2	0.317	Pass
			836.6	0.321	Pass
			848.8	0.319	Pass
	EGPRS	1 TX Slot	824.2	0.323	Pass
			836.6	0.304	Pass
			848.8	0.309	Pass
Band: PCS1900					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	1850.2	0.319	Pass
			1880	0.312	Pass
			1909.8	0.320	Pass
	EGPRS	1 TX Slot	1850.2	0.307	Pass
			1880	0.314	Pass
			1909.8	0.315	Pass

Note: All modes have been tested and we found GSM Test mode has the worst test result. Only record the worst test result.

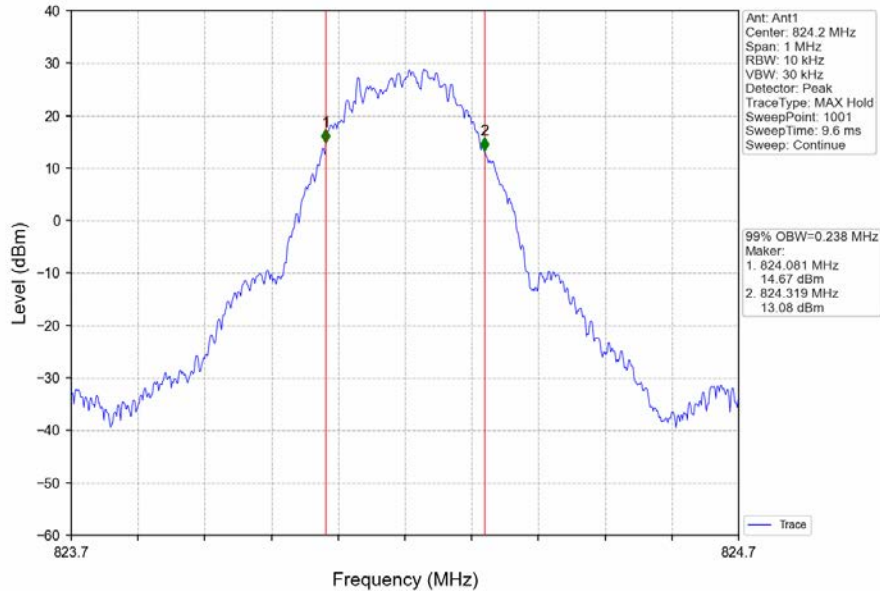


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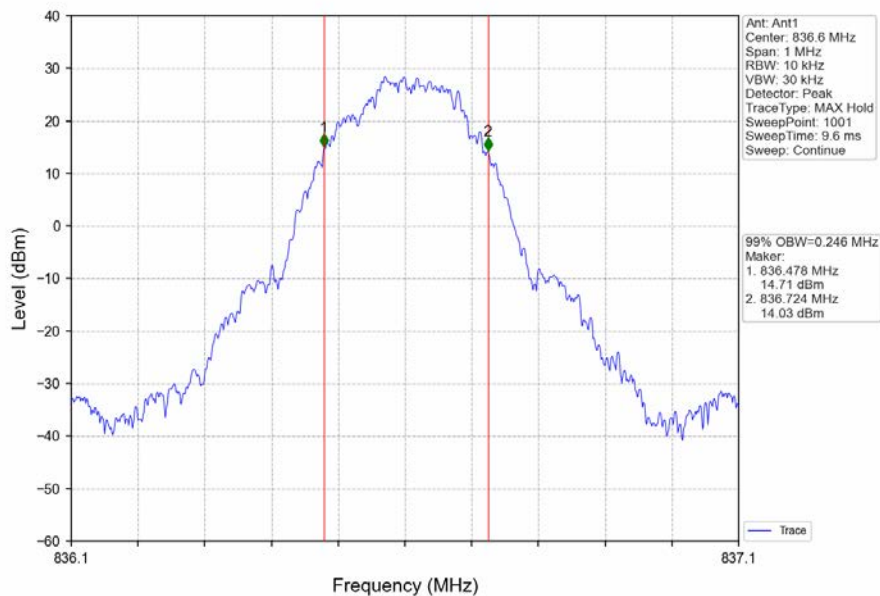
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99% Occupied Bandwidth

GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



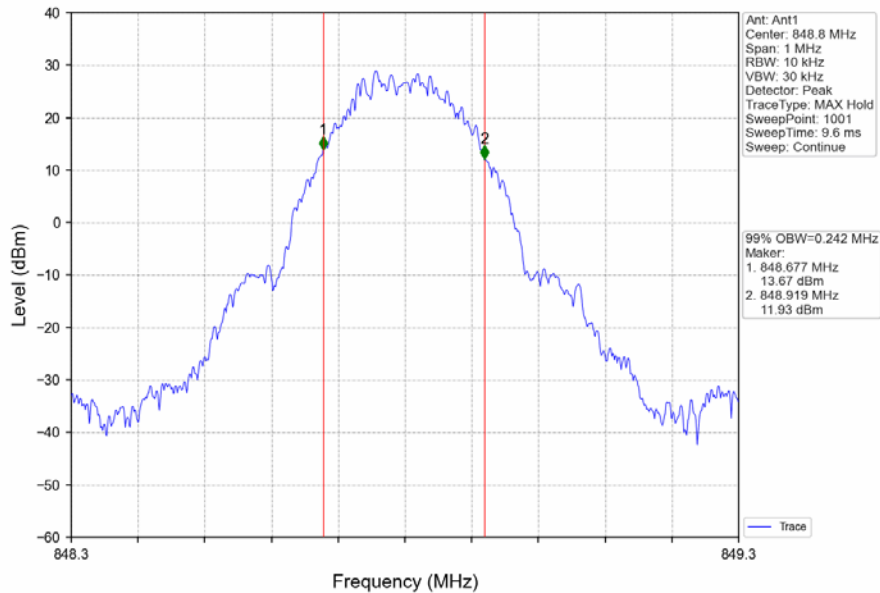
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



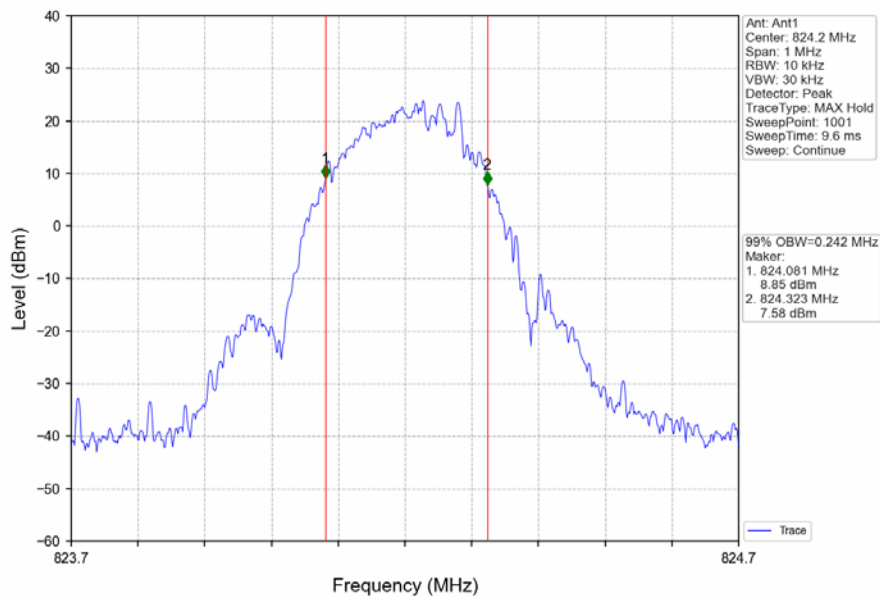
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GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



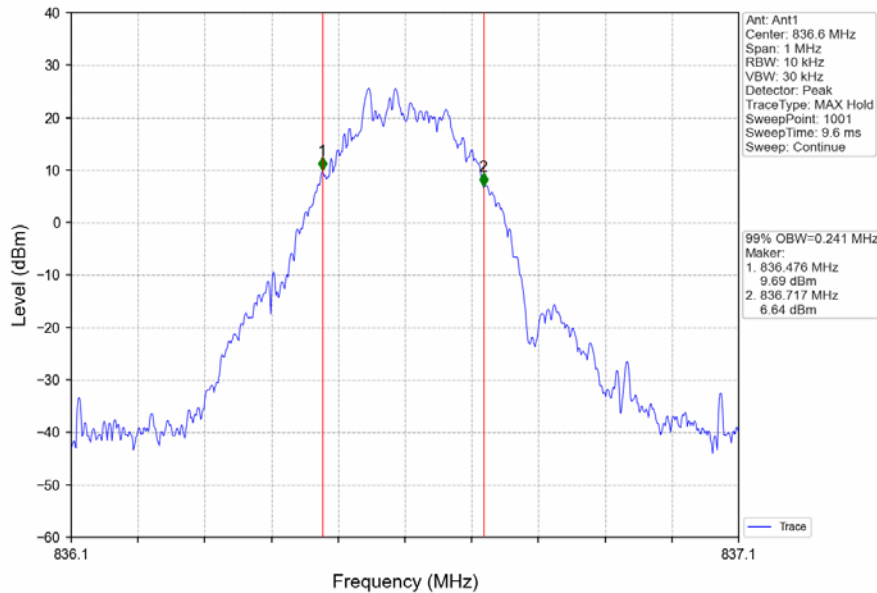
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



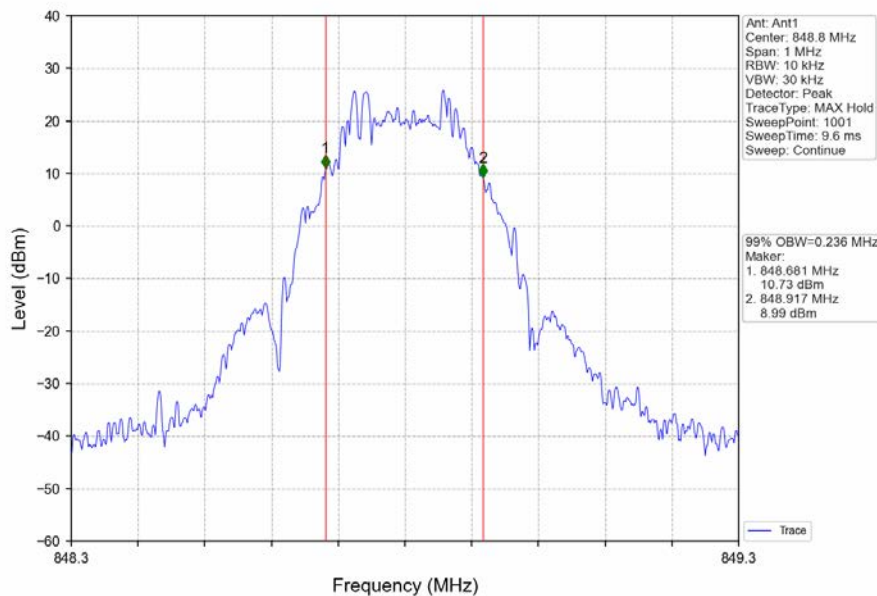
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GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



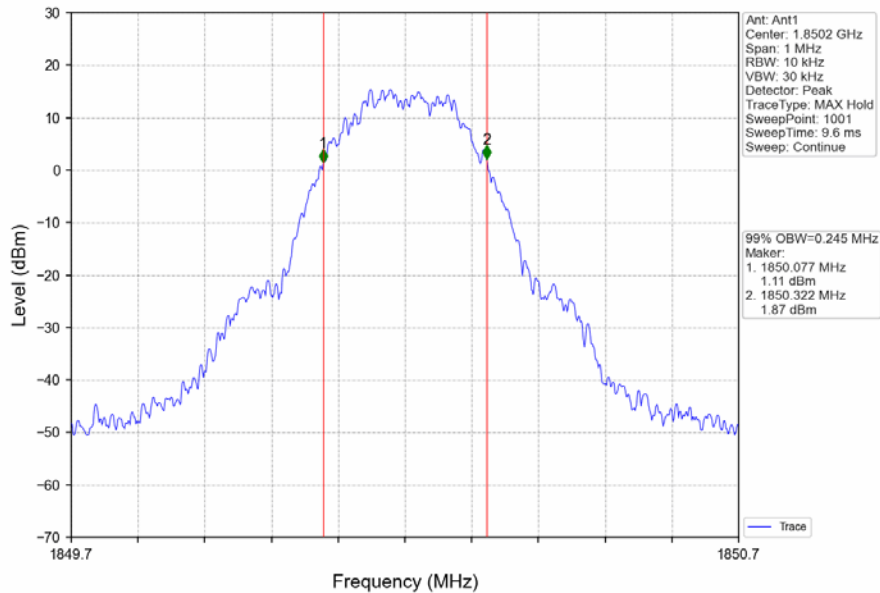
GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



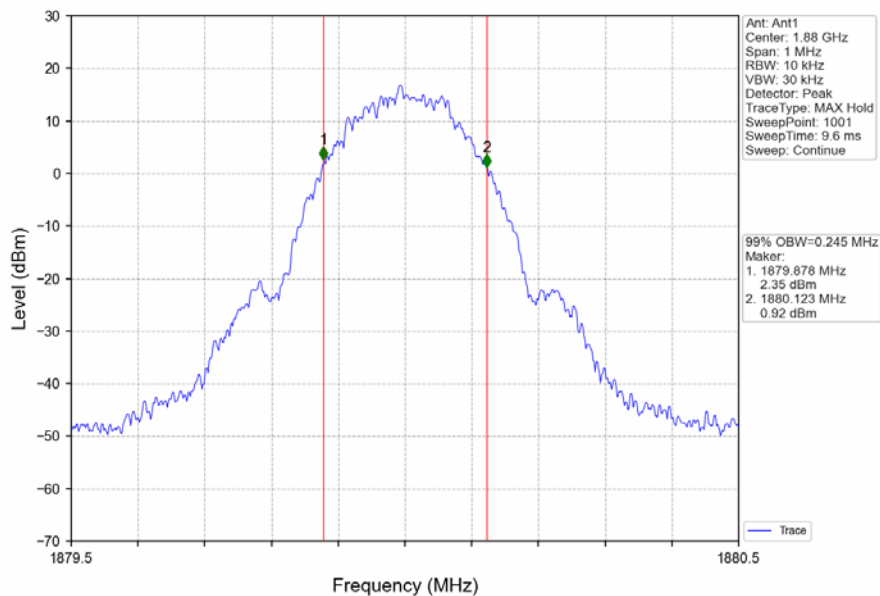
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PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



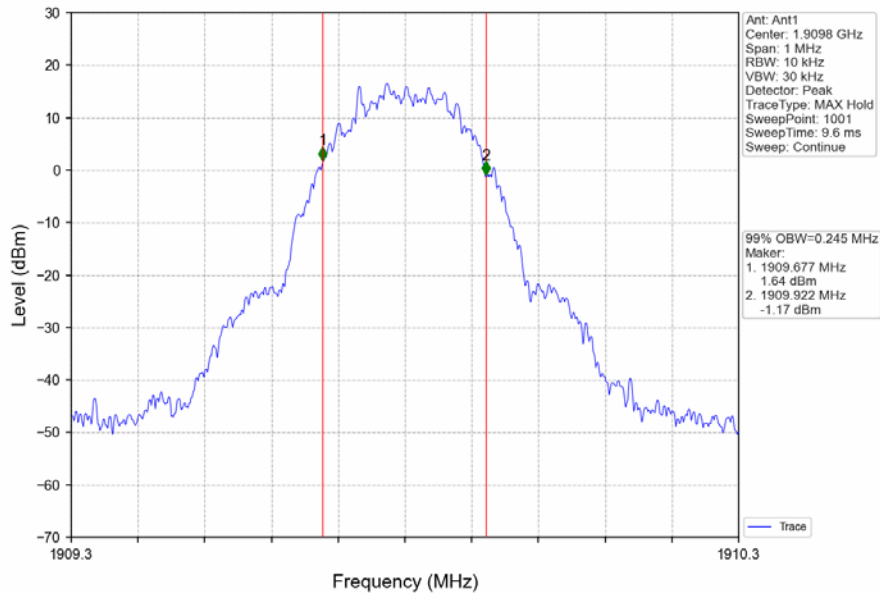
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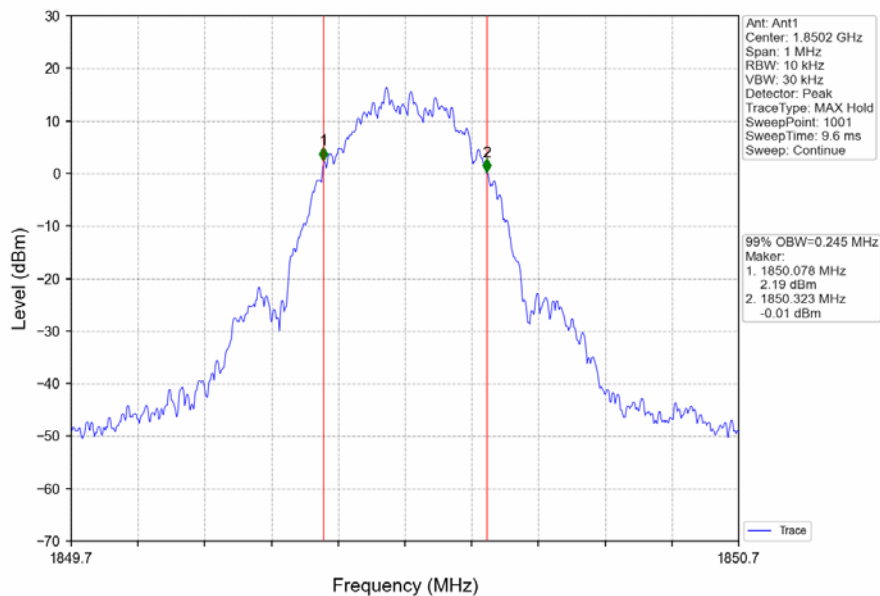
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PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



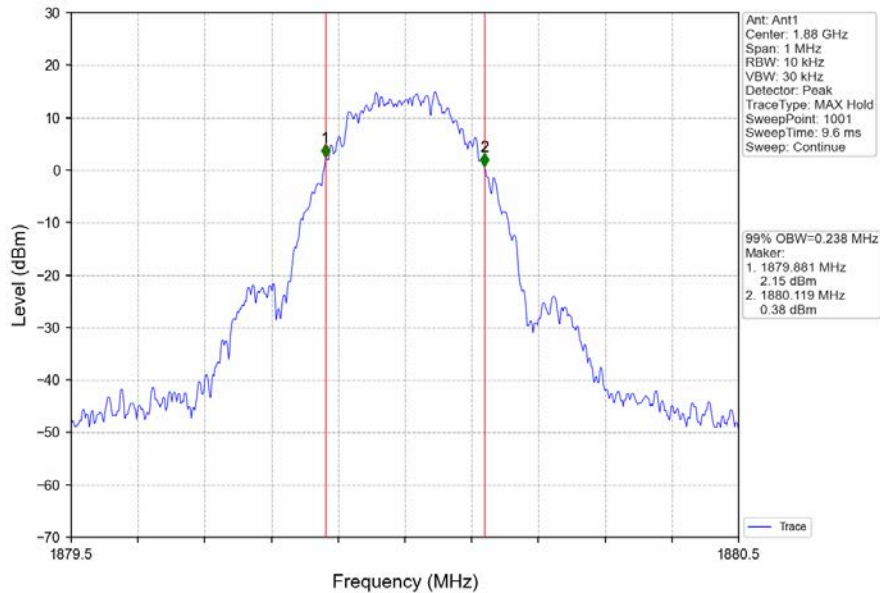
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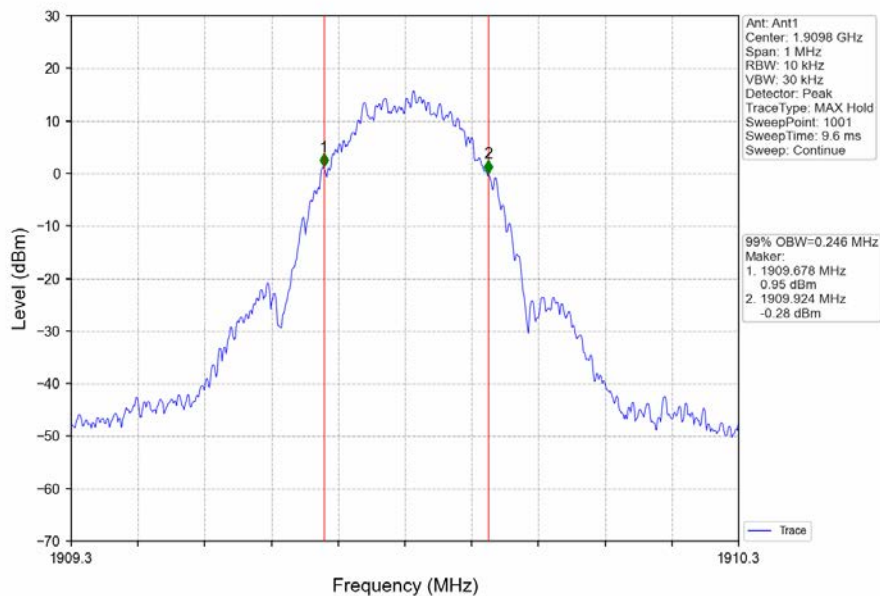
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PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV

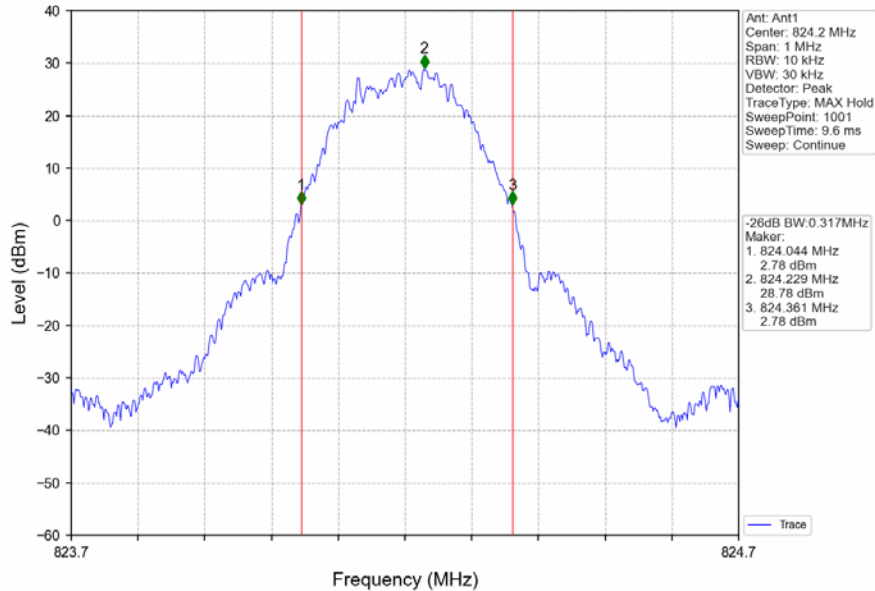


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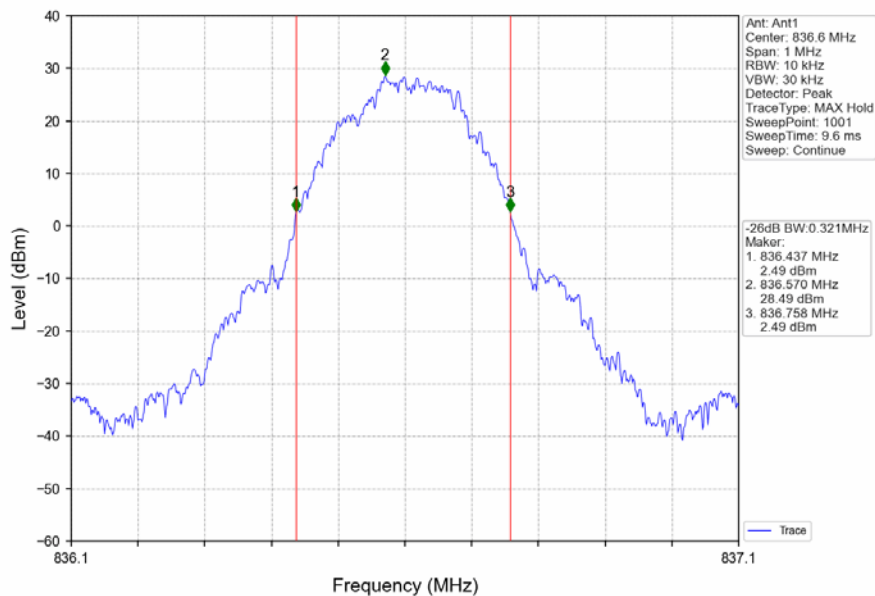
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26dB Bandwidth

GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



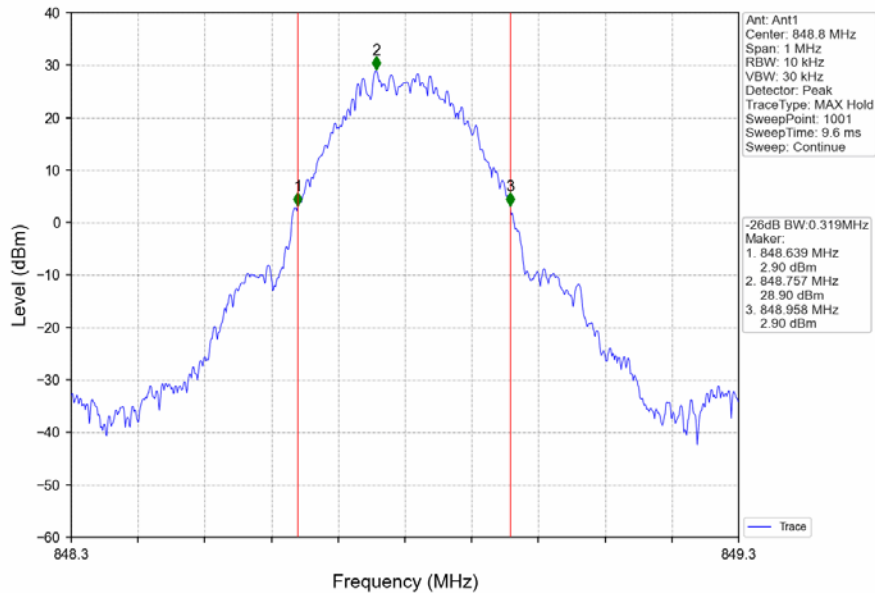
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



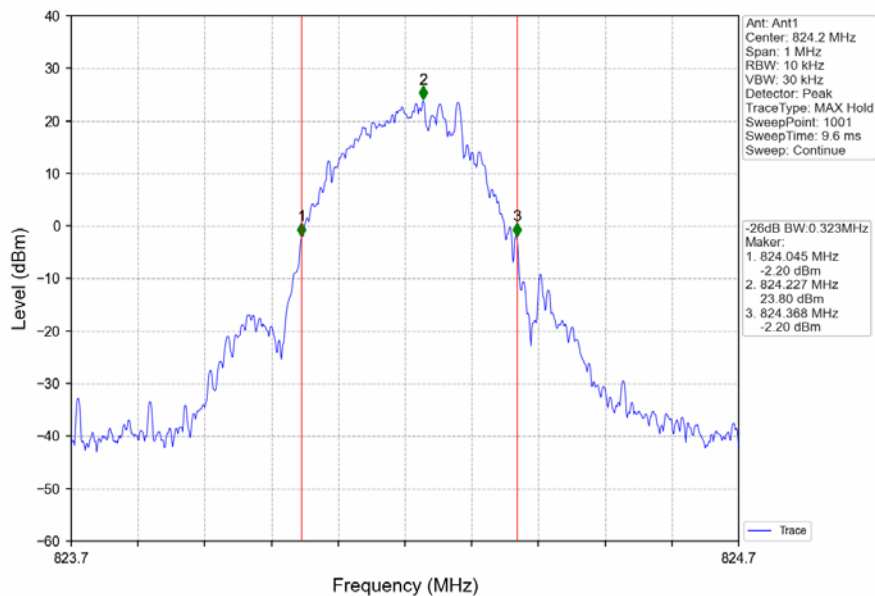
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GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



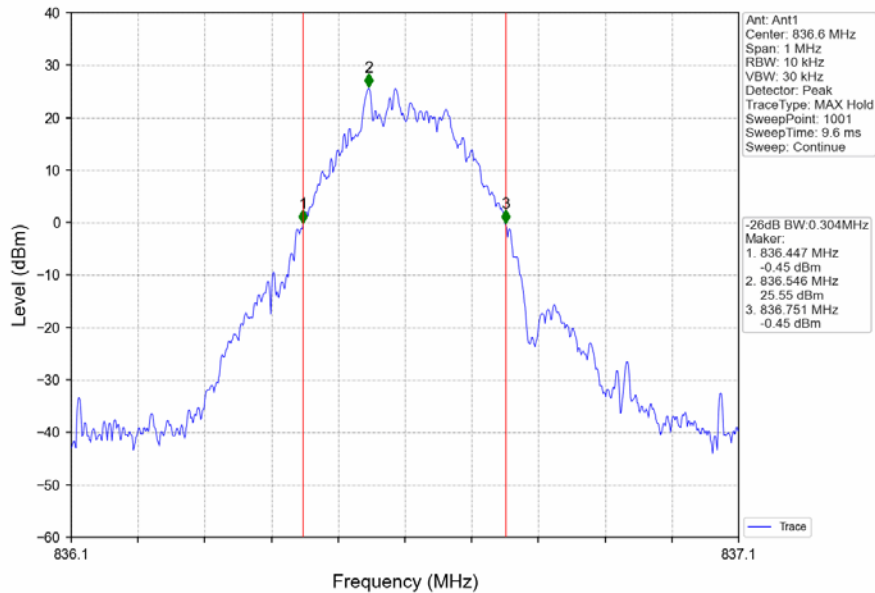
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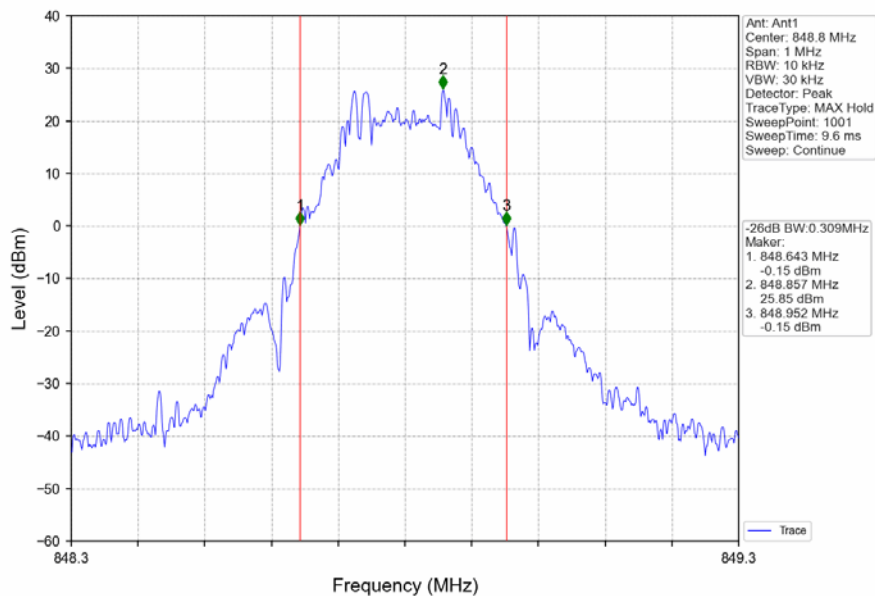
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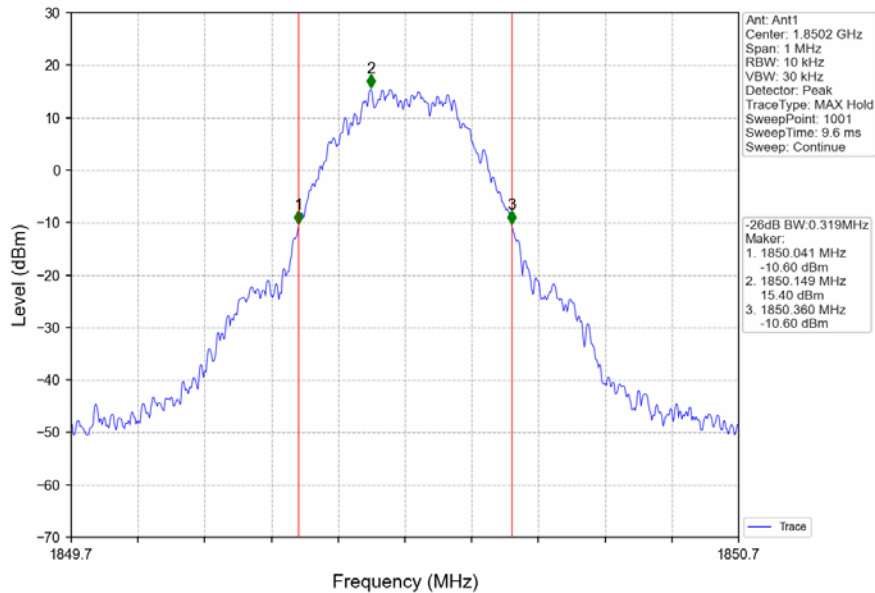
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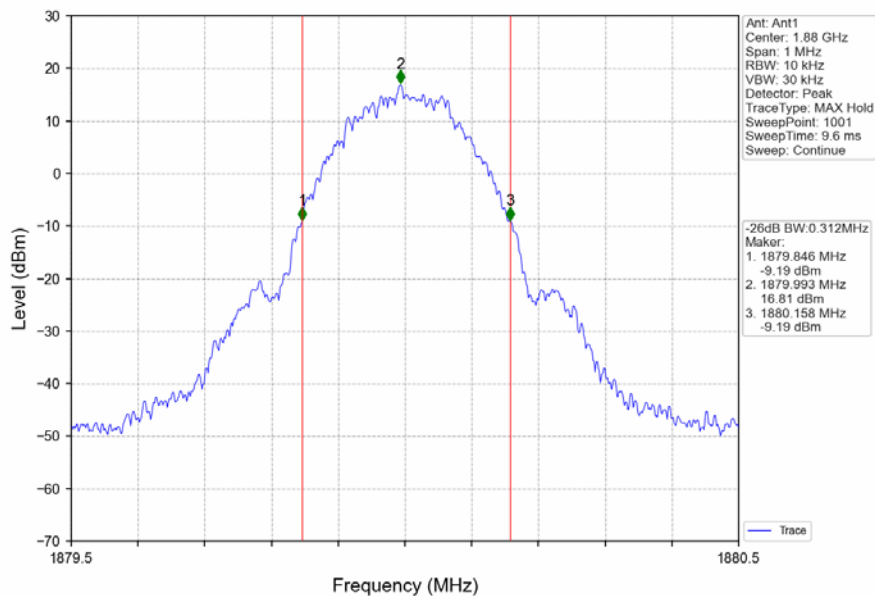
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PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



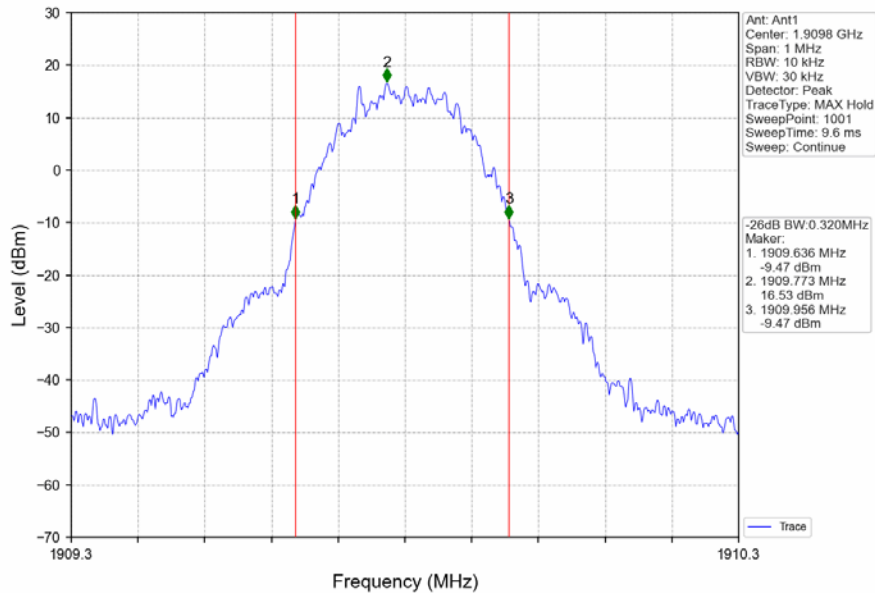
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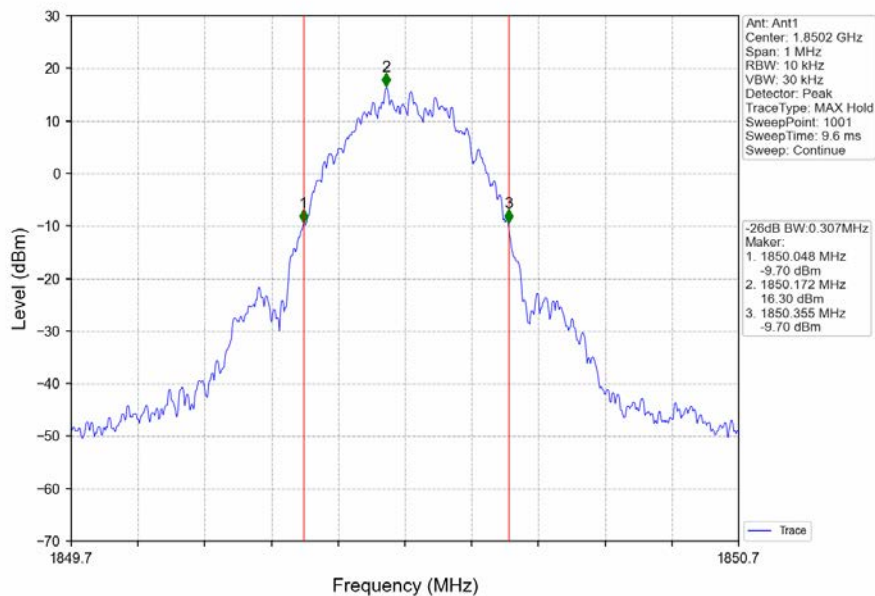
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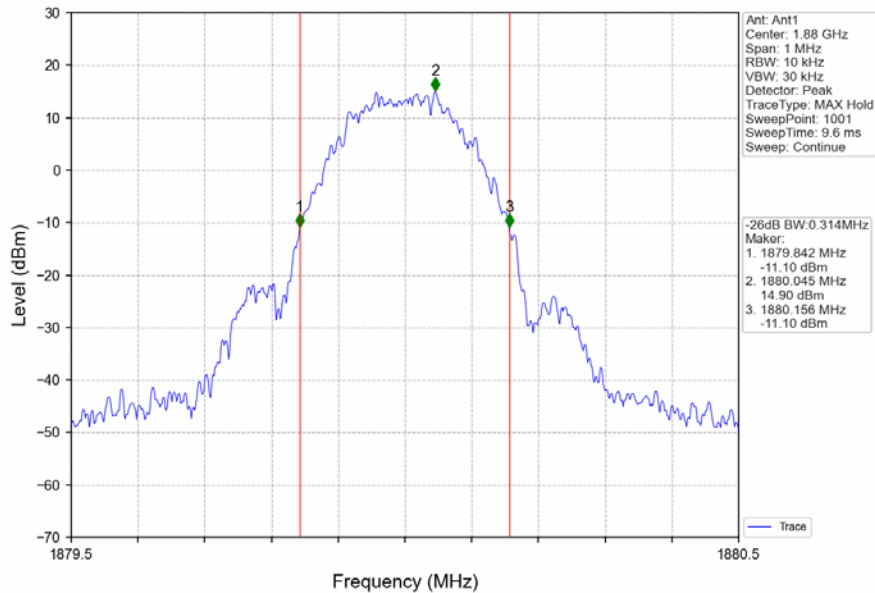
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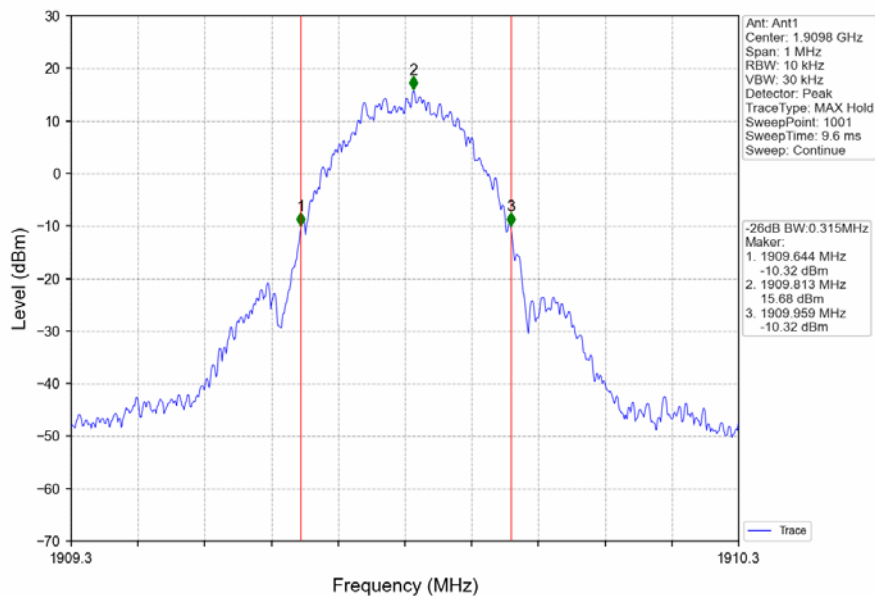
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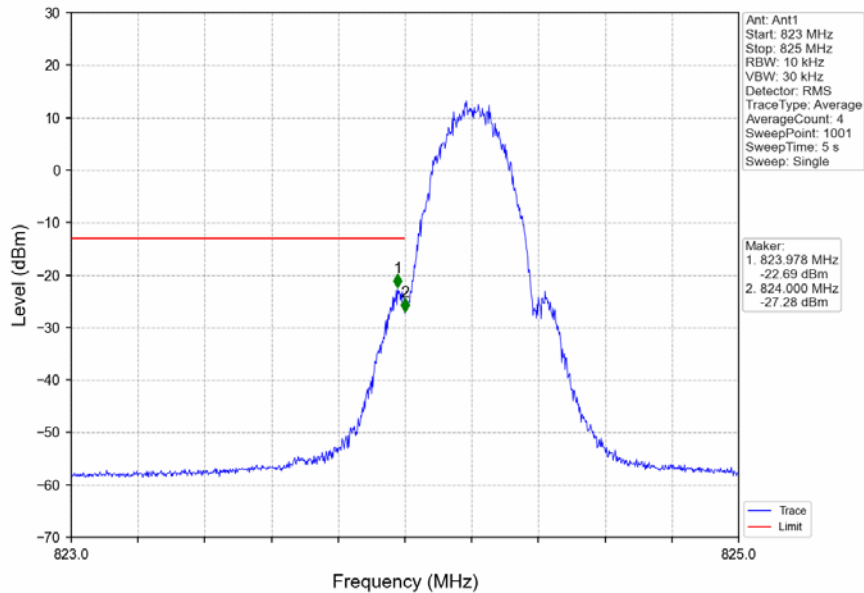


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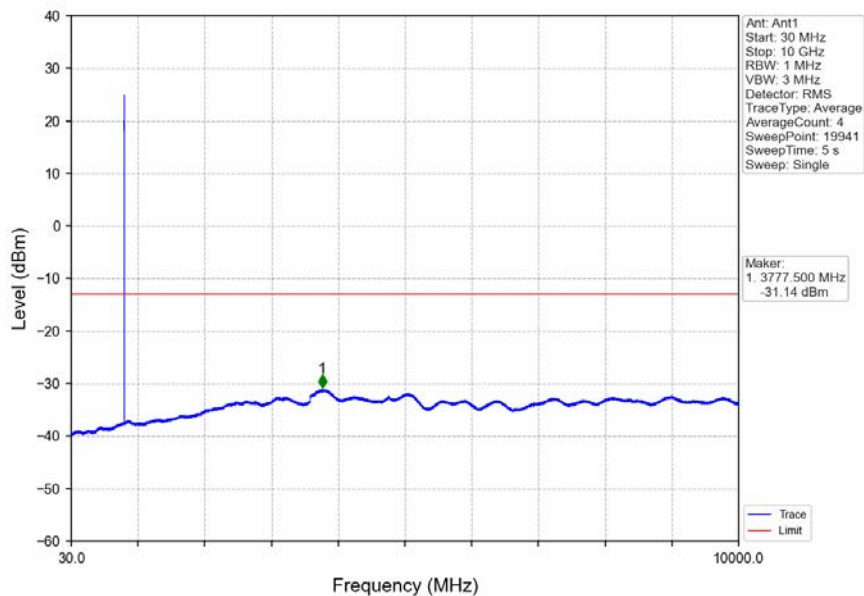
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4. Spurious Emission

GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



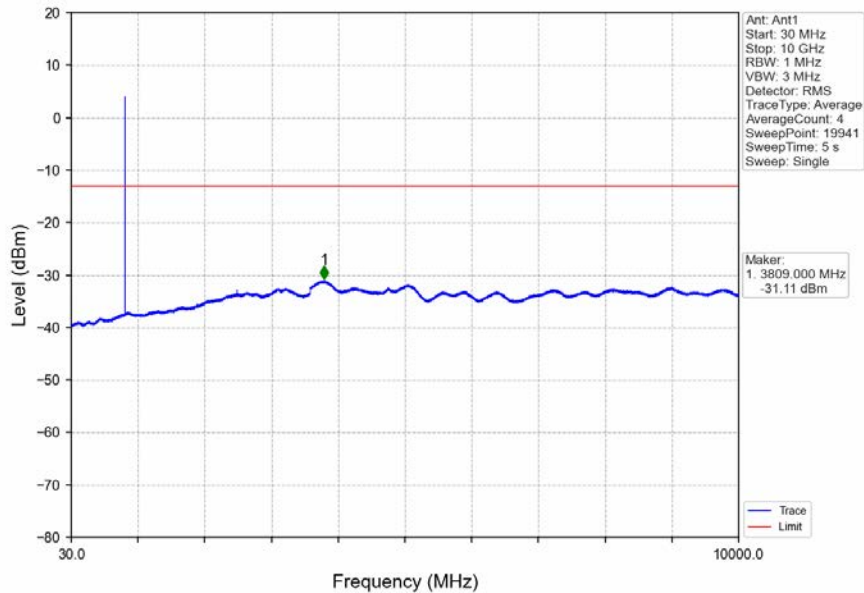
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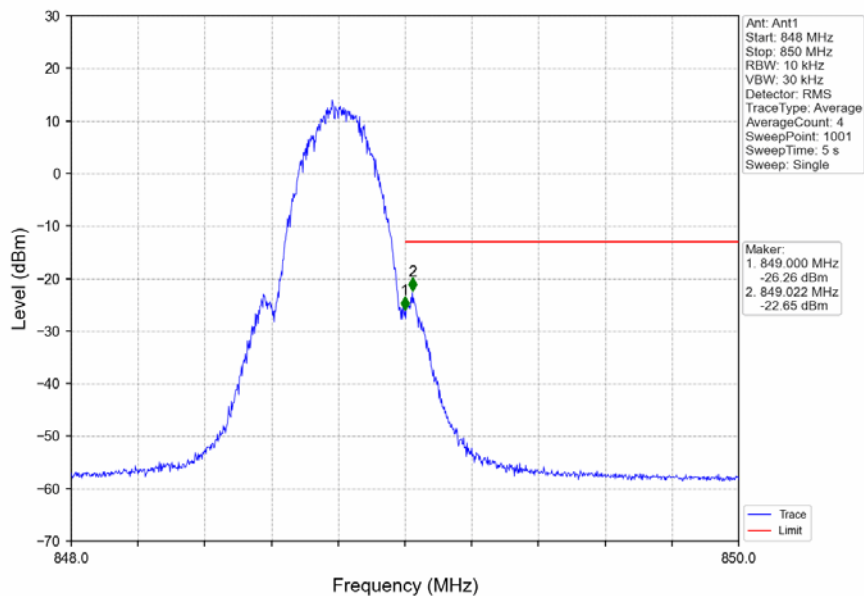
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GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



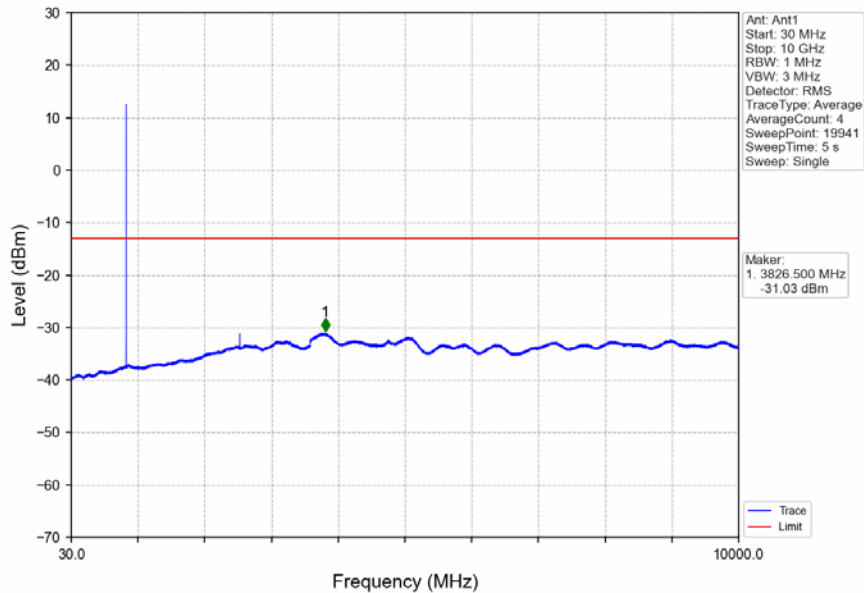
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



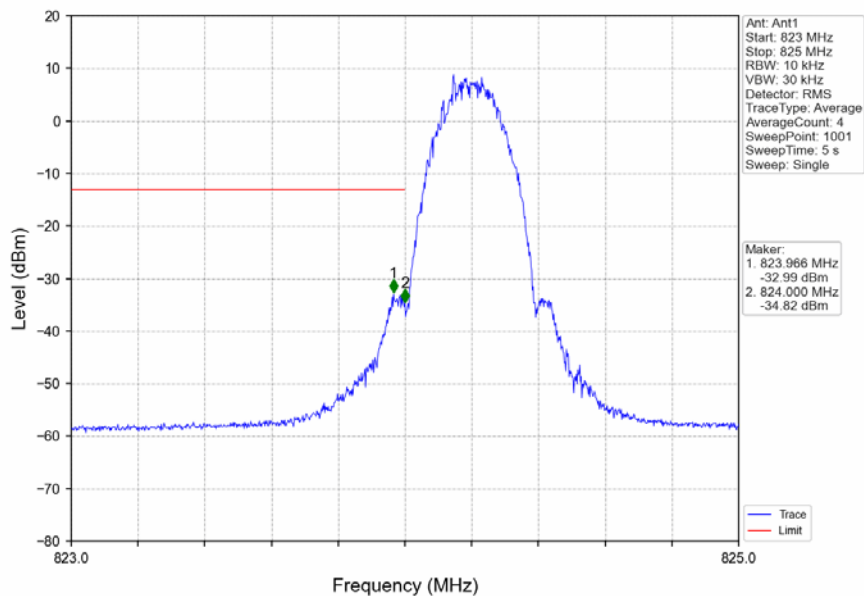
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GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



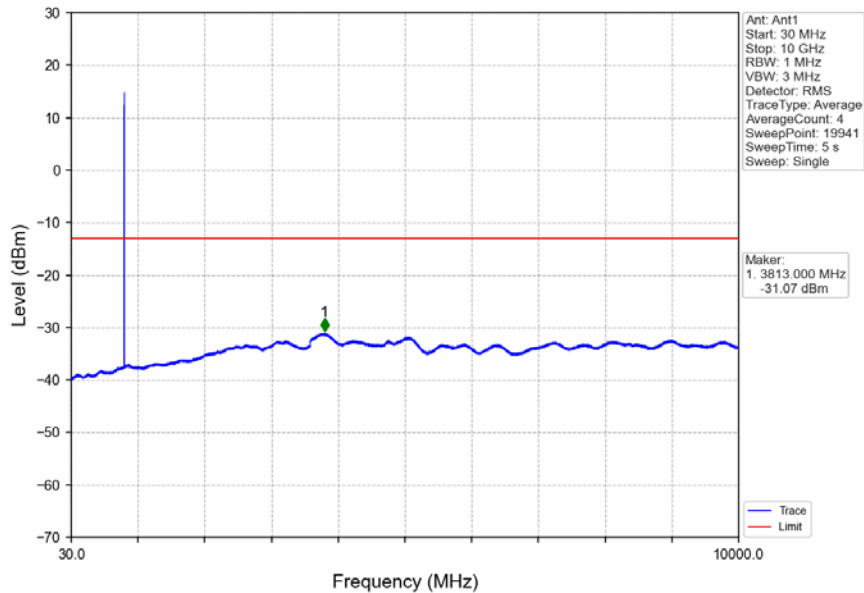
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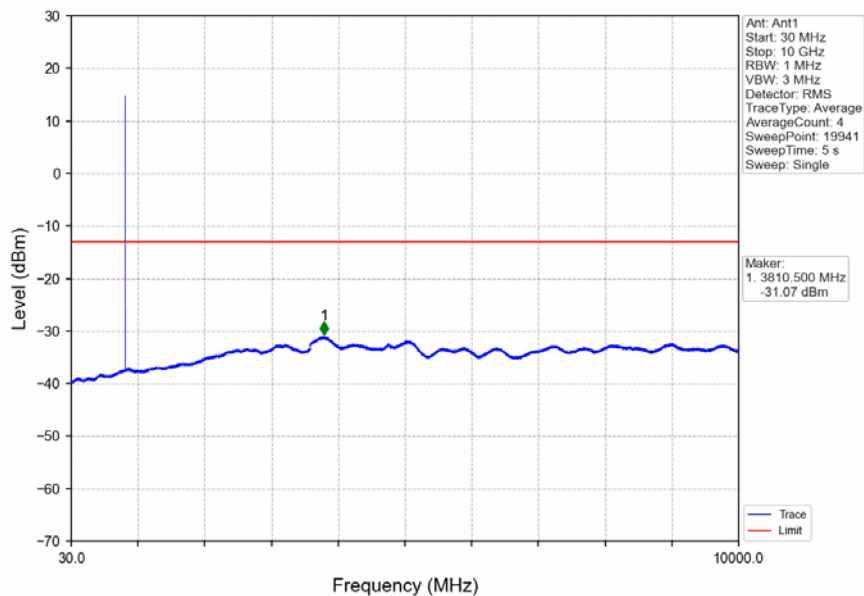
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GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



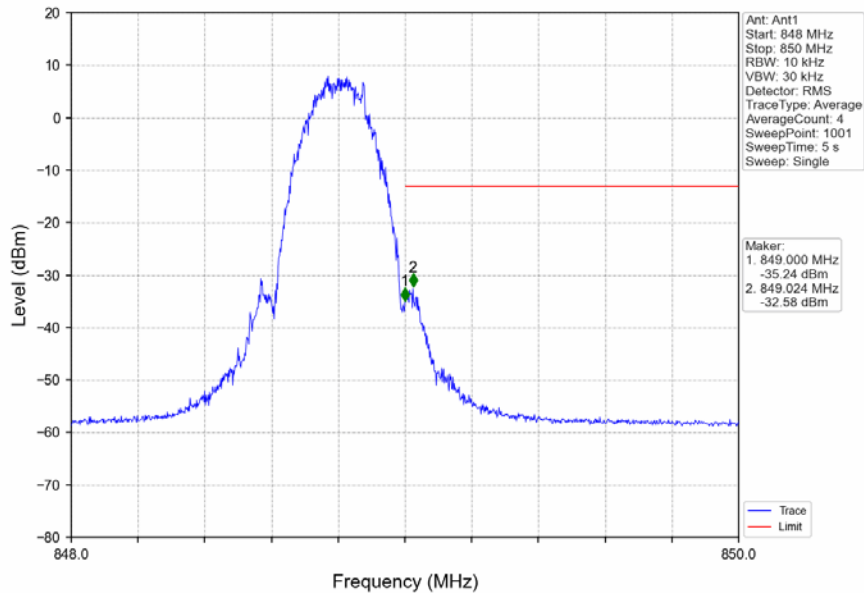
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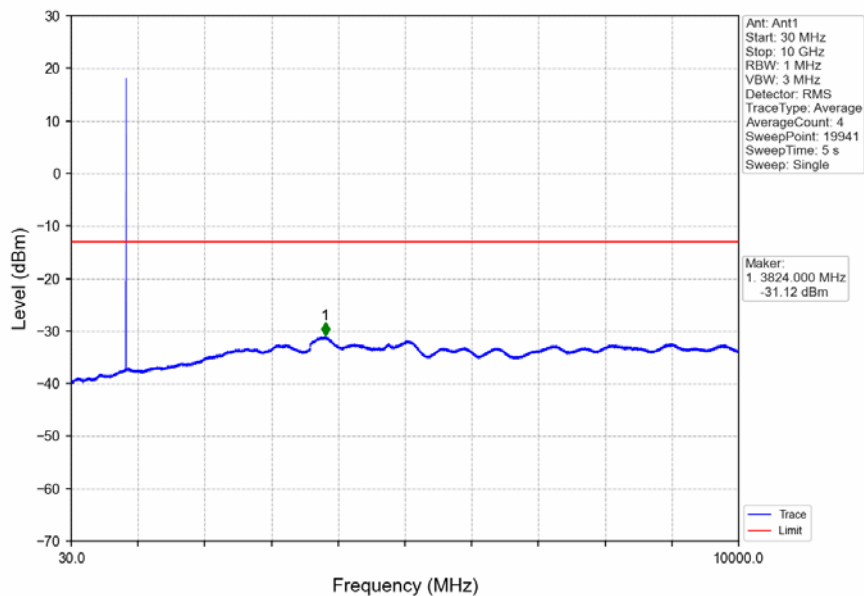
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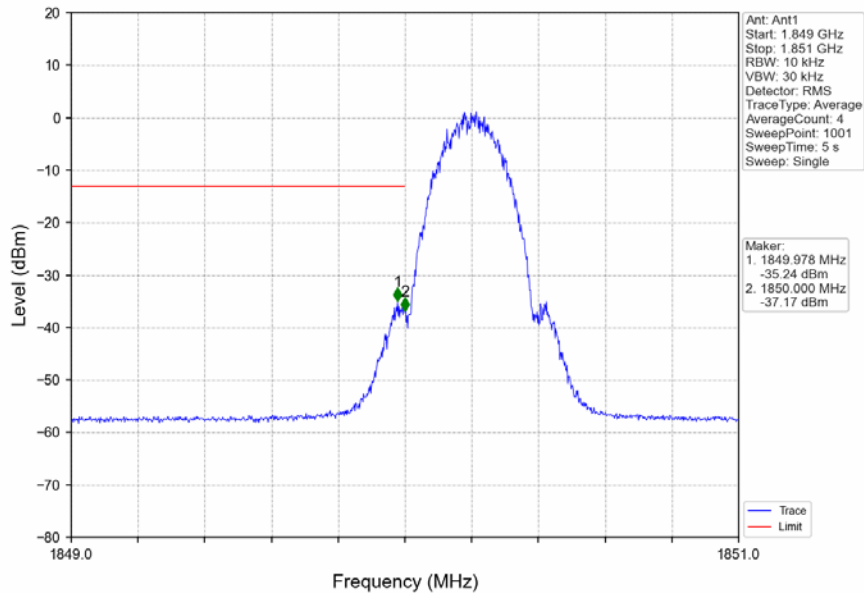
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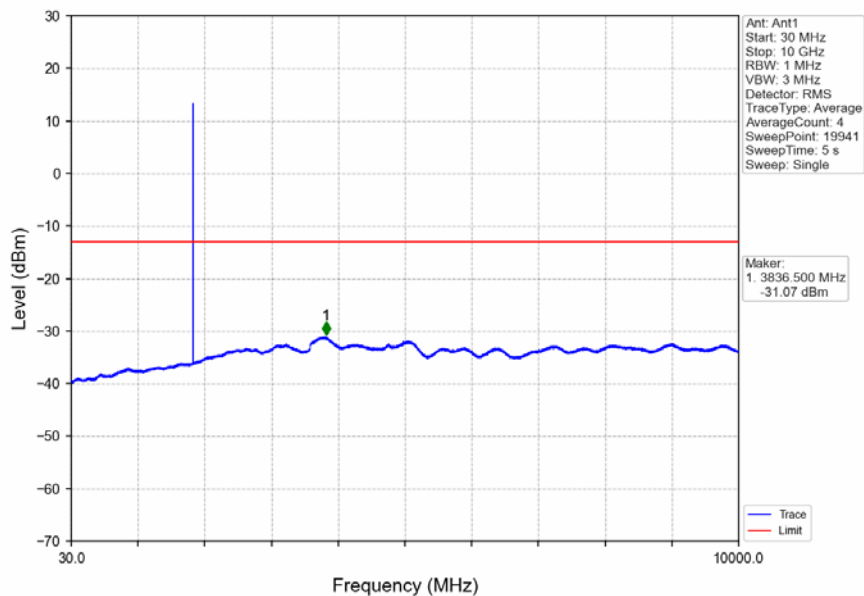
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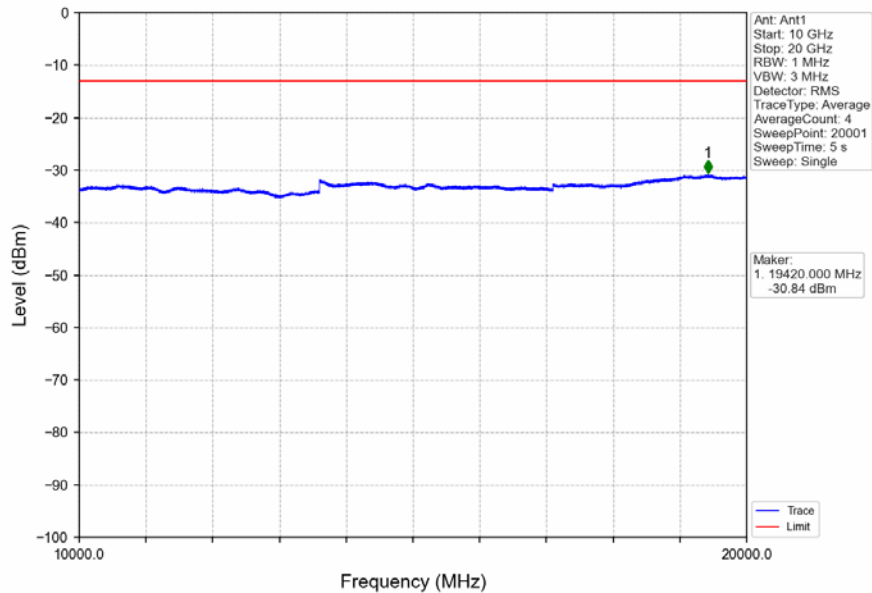
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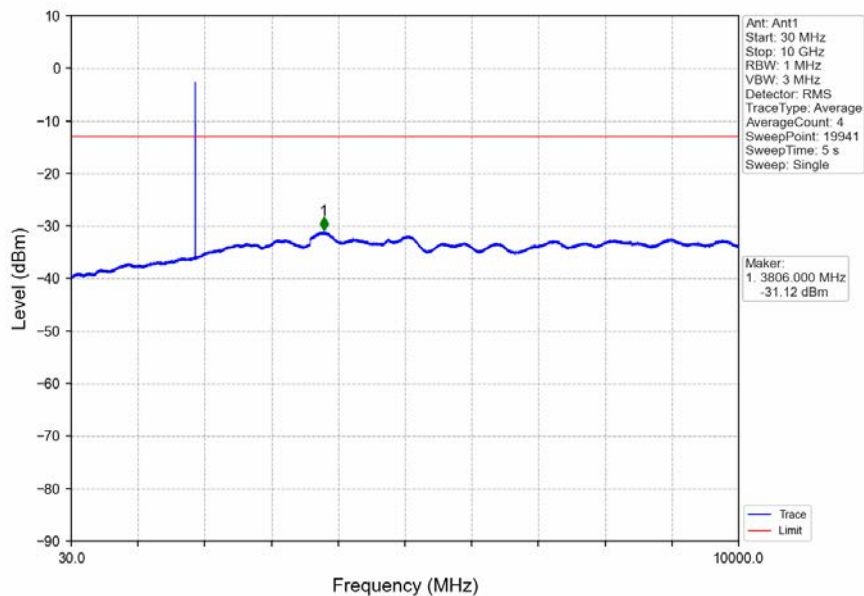
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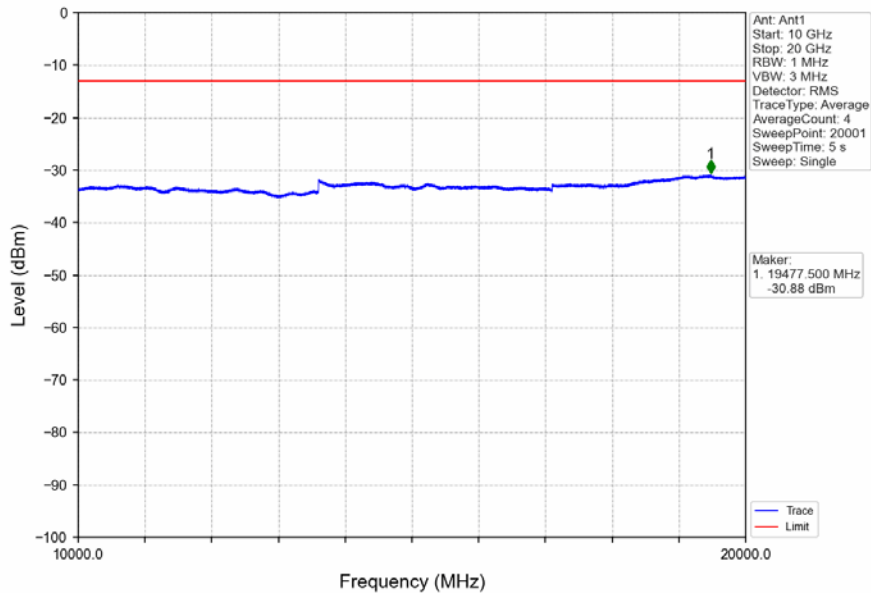
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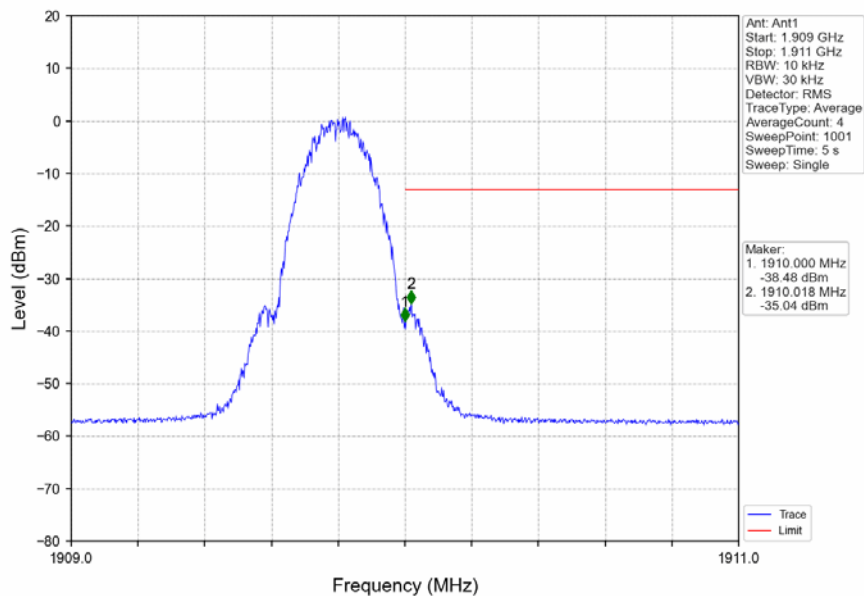
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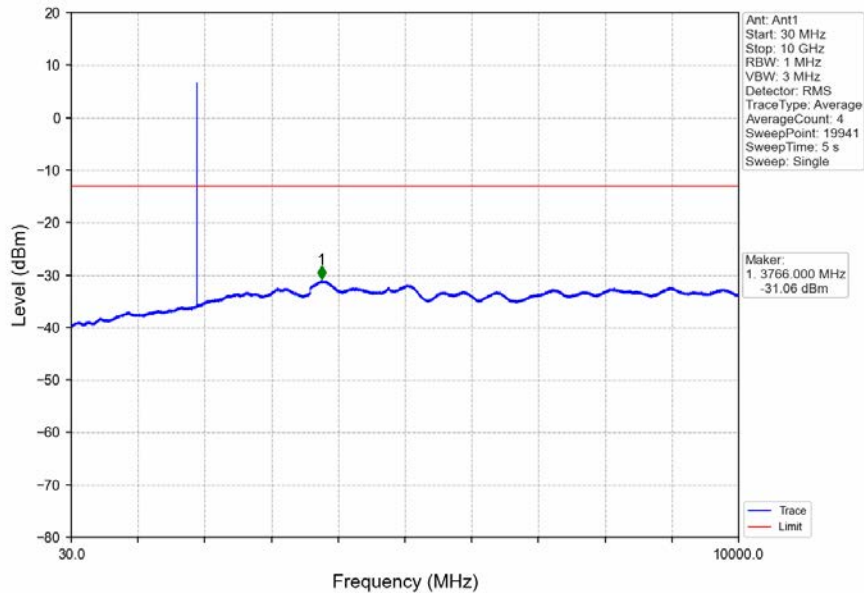
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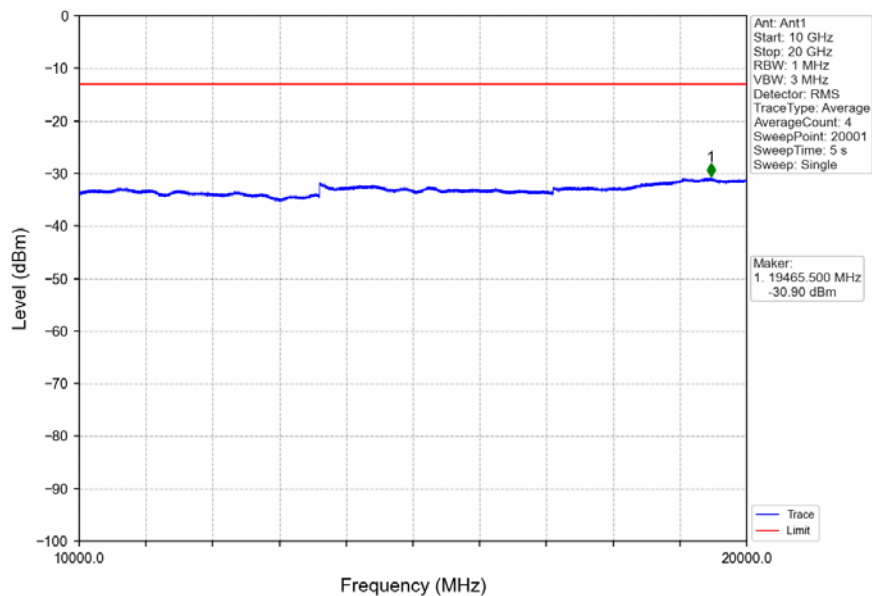
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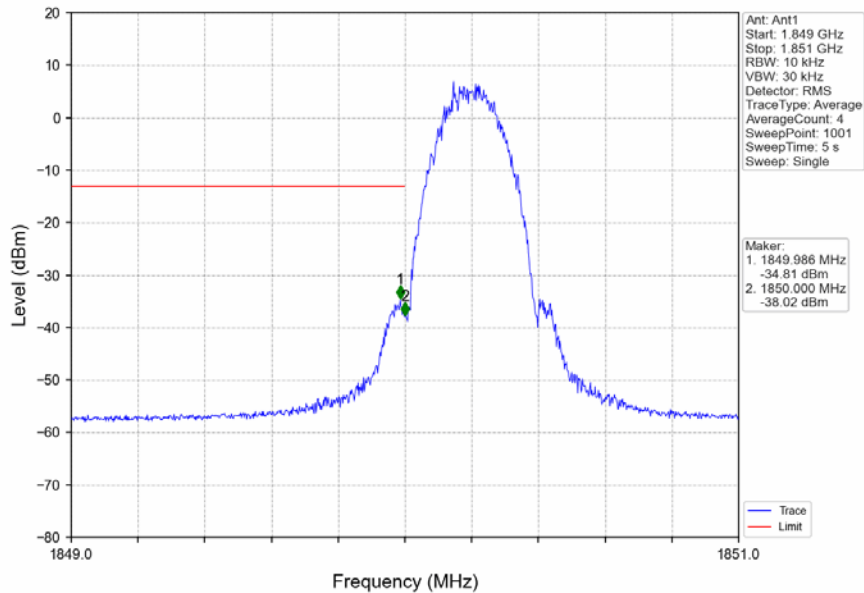


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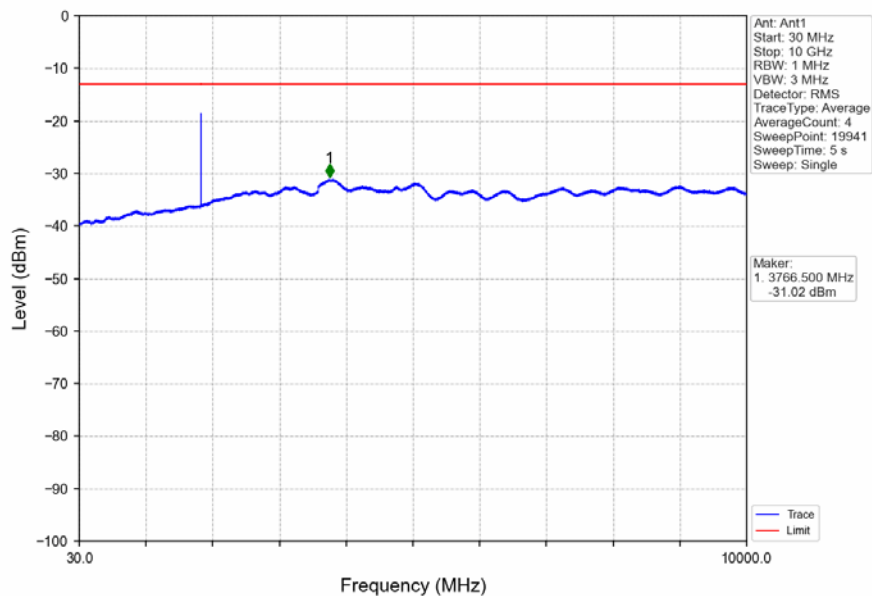
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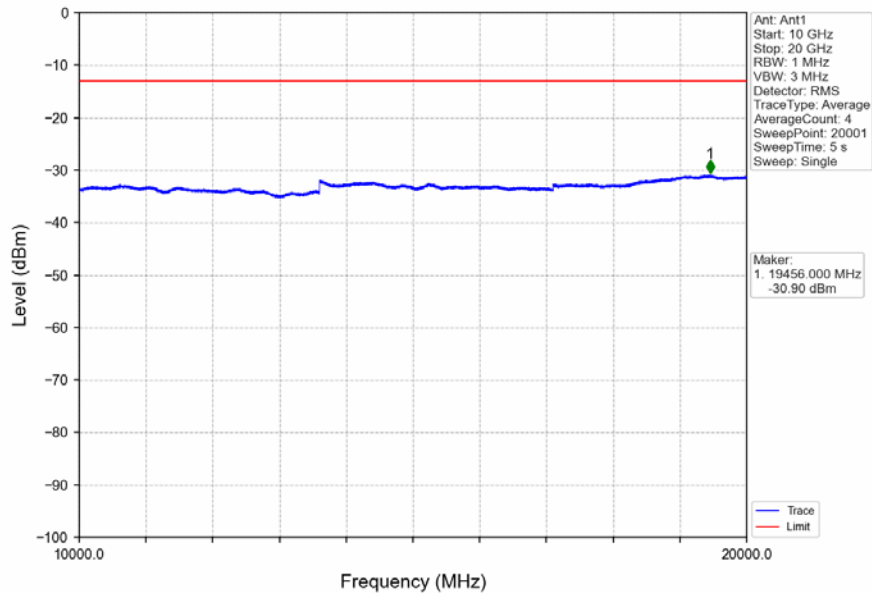
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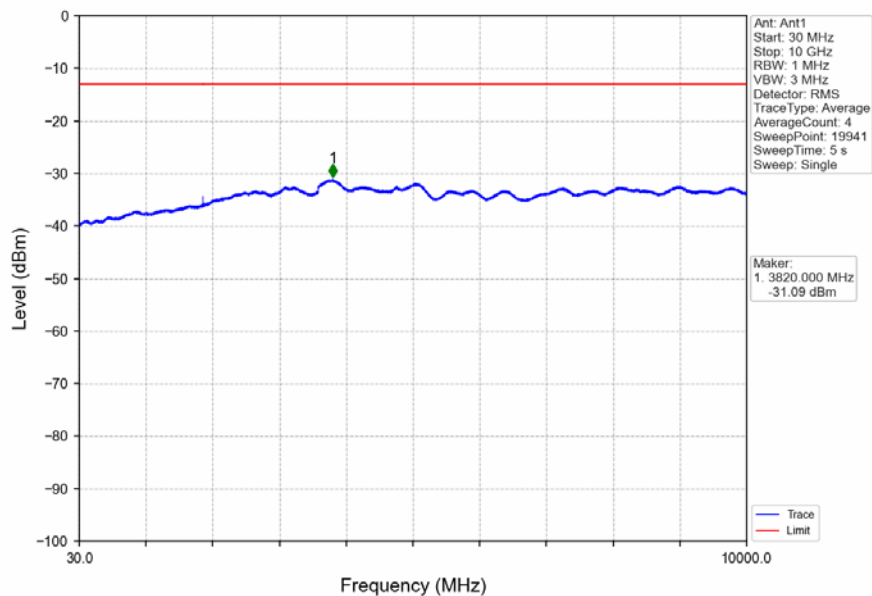
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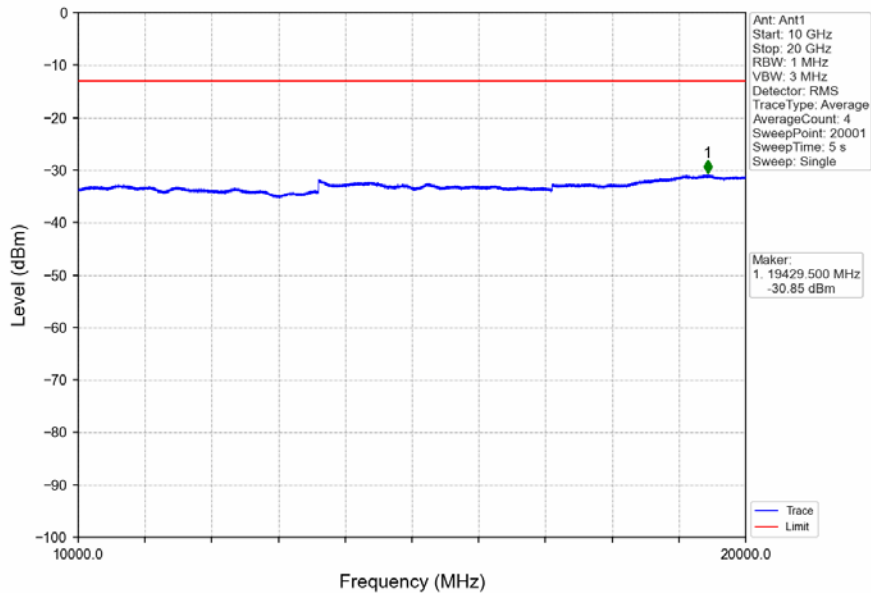


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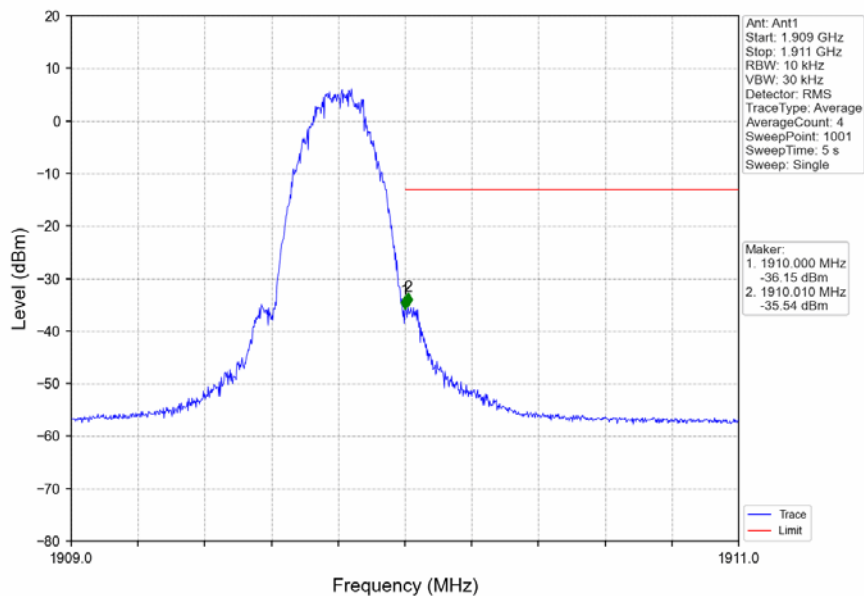
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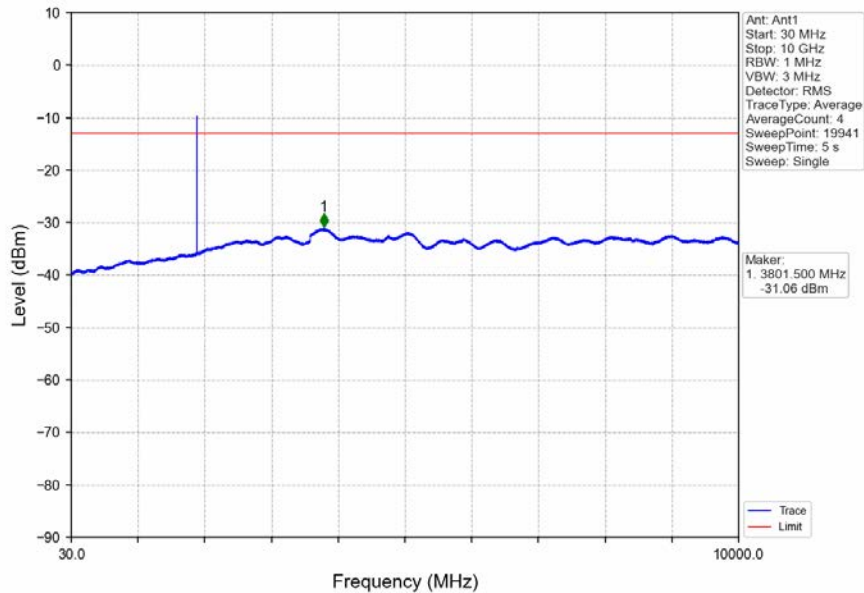
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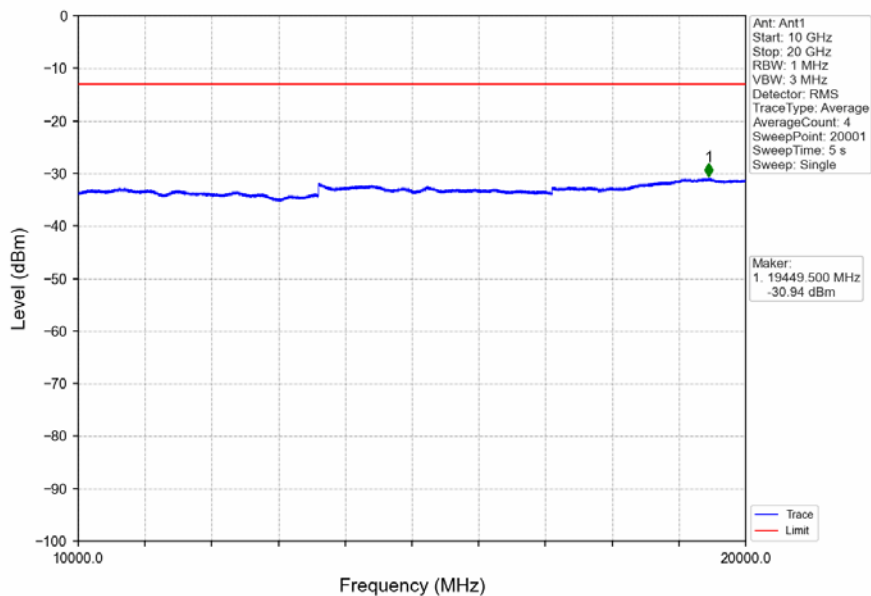
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Note: All modes have been tested and we found GSM Test mode has the worst test result. Only record the worst test result.



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5. Field strength of spurious radiation

GSM850-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
1652.8	-54.79	-13	-41.79	-58.45	3.77	7.43	Horizontal	Pass
2479.2	-51.7	-13	-38.7	-54.03	4.75	7.08	Horizontal	Pass
3305.6	-48.26	-13	-35.26	-50.84	5.72	8.3	Horizontal	Pass
1652.8	-54.22	-13	-41.22	-57.88	3.77	7.43	Vertical	Pass
2479.2	-51.97	-13	-38.97	-54.3	4.75	7.08	Vertical	Pass
3305.6	-48.77	-13	-35.77	-51.35	5.72	8.3	Vertical	Pass

GSM850-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
1672.8	-57.23	-13	-44.23	-60.89	3.77	7.43	Horizontal	Pass
2509.2	-53.82	-13	-40.82	-56.29	5.13	7.6	Horizontal	Pass
3345.6	-49.32	-13	-36.32	-51.9	5.72	8.3	Horizontal	Pass
1672.8	-57.87	-13	-44.87	-61.53	3.77	7.43	Vertical	Pass
2509.2	-52.49	-13	-39.49	-54.96	5.13	7.6	Vertical	Pass
3345.6	-48.82	-13	-35.82	-51.4	5.72	8.3	Vertical	Pass

GSM850-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
1693.2	-56.82	-13	-43.82	-60.48	3.77	7.43	Horizontal	Pass
2539.8	-53.55	-13	-40.55	-56.02	5.13	7.6	Horizontal	Pass
3386.4	-49.34	-13	-36.34	-51.92	5.72	8.3	Horizontal	Pass
1693.2	-58.22	-13	-45.22	-61.88	3.77	7.43	Vertical	Pass
2539.8	-53.07	-13	-40.07	-55.54	5.13	7.6	Vertical	Pass
3386.4	-47.93	-13	-34.93	-50.51	5.72	8.3	Vertical	Pass



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GSM1900-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	-49.25	-13	-36.25	-51.47	6.99	9.21	Horizontal	Pass
5557.2	-47.55	-13	-34.55	-49.87	8.27	10.59	Horizontal	Pass
7409.6	-45.94	-13	-32.94	-49.48	8.19	11.73	Horizontal	Pass
3704.8	-50.93	-13	-37.93	-53.15	6.99	9.21	Vertical	Pass
5557.2	-48.55	-13	-35.55	-50.87	8.27	10.59	Vertical	Pass
7409.6	-46.07	-13	-33.07	-49.61	8.19	11.73	Vertical	Pass

GSM1900-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	-50.17	-13	-37.17	-52.39	6.99	9.21	Horizontal	Pass
5640	-48.17	-13	-35.17	-50.49	8.27	10.59	Horizontal	Pass
7520	-45.96	-13	-32.96	-49.79	8.43	12.26	Horizontal	Pass
3760	-50.07	-13	-37.07	-52.29	6.99	9.21	Vertical	Pass
5640	-47.84	-13	-34.84	-50.16	8.27	10.59	Vertical	Pass
7520	-45.39	-13	-32.39	-49.22	8.43	12.26	Vertical	Pass

GSM1900-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	-50.14	-13	-37.14	-52.36	6.99	9.21	Horizontal	Pass
5722.8	-49.75	-13	-36.75	-52.07	8.27	10.59	Horizontal	Pass
7630.4	-45.47	-13	-32.47	-49.3	8.43	12.26	Horizontal	Pass
3815.2	-50.38	-13	-37.38	-52.6	6.99	9.21	Vertical	Pass
5722.8	-48.29	-13	-35.29	-50.61	8.27	10.59	Vertical	Pass
7630.4	-45.3	-13	-32.3	-49.13	8.43	12.26	Vertical	Pass

Note: All modes have been tested and we found GSM Test mode has the worst test result. Only record the worst test result.

EIRP= S.G. Power- Cable loss+ Antenna Gain



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6. Frequency stability

Frequency Error VS. Voltage

Test Band	Test mode:	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM 850	GSM	LCH	TN	VL	2.42	0.0029	PASS
				VN	1.34	0.0016	PASS
				VH	-3.74	-0.0045	PASS
		MCH	TN	VL	-2.36	-0.0028	PASS
				VN	-1.72	-0.0021	PASS
				VH	-1.12	-0.0013	PASS
		HCH	TN	VL	3.59	0.0042	PASS
				VN	-1.25	-0.0015	PASS
				VH	-2.6	-0.0031	PASS
	EGPRS	LCH	TN	VL	-2.43	-0.0029	PASS
				VN	1.03	0.0012	PASS
				VH	-2.91	-0.0035	PASS
		MCH	TN	VL	3.37	0.0040	PASS
				VN	2.09	0.0025	PASS
				VH	-1.91	-0.0023	PASS
		HCH	TN	VL	0.66	0.0008	PASS
				VN	-3.65	-0.0043	PASS
				VH	2.03	0.0024	PASS



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Test Band	Test mode:	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM 1900	GSM	LCH	TN	VL	-2.38	-0.0013	PASS
				VN	2.58	0.0014	PASS
				VH	2.01	0.0011	PASS
		MCH	TN	VL	1.5	0.0008	PASS
				VN	-2.4	-0.0013	PASS
				VH	1.52	0.0008	PASS
		HCH	TN	VL	-2.37	-0.0012	PASS
				VN	2.58	0.0014	PASS
				VH	-2.54	-0.0013	PASS
	EGPRS	LCH	TN	VL	1.53	0.0008	PASS
				VN	-2.2	-0.0012	PASS
				VH	-1.77	-0.0010	PASS
		MCH	TN	VL	-1.56	-0.0008	PASS
				VN	2.09	0.0011	PASS
				VH	1.14	0.0006	PASS
		HCH	TN	VL	-2.09	-0.0011	PASS
				VN	2.46	0.0013	PASS
				VH	2.17	0.0011	PASS

Note: All modes have been tested and we found GSM Test mode has the worst test result. Only record the worst test result.



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Frequency Error VS. Temperature

Test Band	Test mode:	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM 850	GSM	LCH	VN	-30	2.21	0.0027	PASS
				-20	2.13	0.0026	PASS
				-10	2.42	0.0029	PASS
				0	-1.9	-0.0023	PASS
				10	1.41	0.0017	PASS
				20	-1.83	-0.0022	PASS
				30	2.07	0.0025	PASS
				40	-0.26	-0.0003	PASS
				50	-1.89	-0.0023	PASS
		MCH	VN	-30	-1.74	-0.0021	PASS
				-20	-1.81	-0.0022	PASS
				-10	-0.22	-0.0003	PASS
				0	-1.41	-0.0017	PASS
				10	2.31	0.0028	PASS
				20	3.12	0.0037	PASS
				30	1.98	0.0024	PASS
				40	1.37	0.0016	PASS
				50	-1.99	-0.0024	PASS
		HCH	VN	-30	1.81	0.0021	PASS
				-20	1.88	0.0022	PASS
				-10	2.79	0.0033	PASS
				0	-1.36	-0.0016	PASS
				10	2.07	0.0024	PASS
				20	-1.66	-0.0020	PASS
				30	2.51	0.0030	PASS
				40	0.24	0.0003	PASS
				50	-0.62	-0.0007	PASS



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Test Band	Test mode:	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM 850	EGPRS	LCH	VN	-30	-1.15	-0.0014	PASS
				-20	-1.19	-0.0014	PASS
				-10	3.42	0.0041	PASS
				0	-2.88	-0.0035	PASS
				10	2.73	0.0033	PASS
				20	-2.73	-0.0033	PASS
				30	-3.47	-0.0042	PASS
				40	-3.29	-0.0040	PASS
				50	-2.71	-0.0033	PASS
		MCH	VN	-30	-1.19	-0.0014	PASS
				-20	-1.22	-0.0015	PASS
				-10	3.01	0.0036	PASS
				0	-1.27	-0.0015	PASS
				10	2.91	0.0035	PASS
				20	-0.39	-0.0005	PASS
				30	-0.8	-0.0010	PASS
				40	-1.47	-0.0018	PASS
				50	-0.72	-0.0009	PASS
		HCH	VN	-30	-1.61	-0.0019	PASS
				-20	-0.19	-0.0002	PASS
				-10	-1.7	-0.0020	PASS
				0	-1.4	-0.0016	PASS
				10	-1.69	-0.0020	PASS
				20	2.28	0.0027	PASS
				30	-1.14	-0.0013	PASS
				40	-2.52	-0.0030	PASS
				50	-1.96	-0.0023	PASS



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Test Band	Test mode:	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM 1900	GSM	LCH	VN	-30	-2.85	-0.0015	PASS
				-20	-2.86	-0.0015	PASS
				-10	-2.08	-0.0011	PASS
				0	2.95	0.0016	PASS
				10	-1.52	-0.0008	PASS
				20	-0.24	-0.0001	PASS
				30	1.86	0.0010	PASS
				40	-1.18	-0.0006	PASS
				50	-2.33	-0.0013	PASS
		MCH	VN	-30	-2.1	-0.0011	PASS
				-20	-1.58	-0.0008	PASS
				-10	1.64	0.0009	PASS
				0	-2.23	-0.0012	PASS
				10	3.1	0.0016	PASS
				20	-0.78	-0.0004	PASS
				30	-1.66	-0.0009	PASS
				40	-3.59	-0.0019	PASS
				50	-1.29	-0.0007	PASS
		HCH	VN	-30	-1.43	-0.0007	PASS
				-20	-0.6	-0.0003	PASS
				-10	3.62	0.0019	PASS
				0	1.94	0.0010	PASS
				10	-0.25	-0.0001	PASS
				20	-3.15	-0.0016	PASS
				30	-0.63	-0.0003	PASS
				40	1.75	0.0009	PASS
				50	-2.85	-0.0015	PASS



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GSM 1900	EGPRS	LCH	VN	-30	-1.78	-0.0010	PASS
				-20	-1.79	-0.0010	PASS
				-10	-2.17	-0.0012	PASS
				0	2.74	0.0015	PASS
				10	-1.46	-0.0008	PASS
				20	-1.15	-0.0006	PASS
				30	-0.88	-0.0005	PASS
				40	2.73	0.0015	PASS
				50	-0.93	-0.0005	PASS
		MCH	VN	-30	-2.37	-0.0013	PASS
				-20	-2.36	-0.0013	PASS
				-10	-1.54	-0.0008	PASS
				0	-1.64	-0.0009	PASS
				10	2.52	0.0013	PASS
				20	-2.16	-0.0011	PASS
				30	-1.04	-0.0006	PASS
				40	-0.16	-0.0001	PASS
				50	1.91	0.0010	PASS
		HCH	VN	-30	-1.96	-0.0010	PASS
				-20	-1.97	-0.0010	PASS
				-10	4.01	0.0021	PASS
				0	2.85	0.0015	PASS
				10	-2.35	-0.0012	PASS
				20	-1.97	-0.0010	PASS
				30	-2.77	-0.0015	PASS
				40	-1.56	-0.0008	PASS
				50	-1.25	-0.0007	PASS

Note: All modes have been tested and we found GSM Test mode has the worst test result. Only record the worst test result.

- End of the Report -



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