



TESTING LABORATORY
CERTIFICATE # 4821.01



FCC PART 27

FCC PART 22H, PART 24E

TEST REPORT

For

Epik One America Corporation

801 Brickell avenue #900 Miami Florida 33131 United States

FCC ID: 2AO6ZK605

Report Type: Original Report	Product Type: 3G Smart Phone
Report Number: <u>SZ1210331-09274E-00D</u>	
Report Date:	<u>2021-06-03</u>
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	3G Smart Phone
Tested Model	K605
Multiple Model	K604
Model Difference	Refer to the DoS letter
Frequency Range	Cellular: 824-849 MHz PCS: 1850-1910 MHz WCDMA B2: 1850-1910 MHz WCDMA B5: 824-849 MHz WCDMA B4: 1710- 1755 MHz
Modulation Technique	2G: GMSK 3G: BPSK, QPSK, 16QAM
Antenna Specification	GSM850/WCDMA B5: 1.1dBi GSM1900/WCDMA B2: 1.2dBi WCDMA B4: 1.2dBi
Voltage Range	DC3.8V from battery or DC 5.0V from adapter
Date of Test	2021-05-24 to 2021-05-27
Sample serial number	SZ1210331-09274E-RF-S_1ZR (for RF test) SZ1210331-09274E-RF-S_1ZS (for RE&CE test) (Assigned by BACL, Shenzhen)
Received date	2021-03-31
Sample/EUT Status	Good condition
Adapter information	Model: YMK-6W050100 Input: 100-240V~50/60Hz, 0.2A Output: 5V, 1.0A

Objective

This test report is prepared in accordance with Part 2-Subpart J, Part 22-Subpart H and Part 24-Subpart E and Subpart 27 of the Federal Communication Commissions rules.

The objective is to determine the compliance of the EUT with FCC rules for output power, modulation characteristic, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability and band edge.

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2-Subpart J as well as the following parts:

Part 22 Subpart H - Public Mobile Services
Part 24 Subpart E - Personal Communication Services
Part 27 – Miscellaneous wireless communications services

Applicable Standards: ANSI C63.26-2015.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.
Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter	Uncertainty	
Occupied Channel Bandwidth	±5%	
RF output power, conducted	±0.73dB	
Unwanted Emission, conducted	±1.6dB	
Emissions, Radiated	Below 1GHz	±4.75dB
	Above 1GHz	±4.88dB
Temperature	±1°C	
Humidity	±6%	
Supply voltages	±0.4%	

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The EUT was configured for testing according to ANSI C63.26-2015.

The final qualification test was performed with the EUT operating at normal mode.

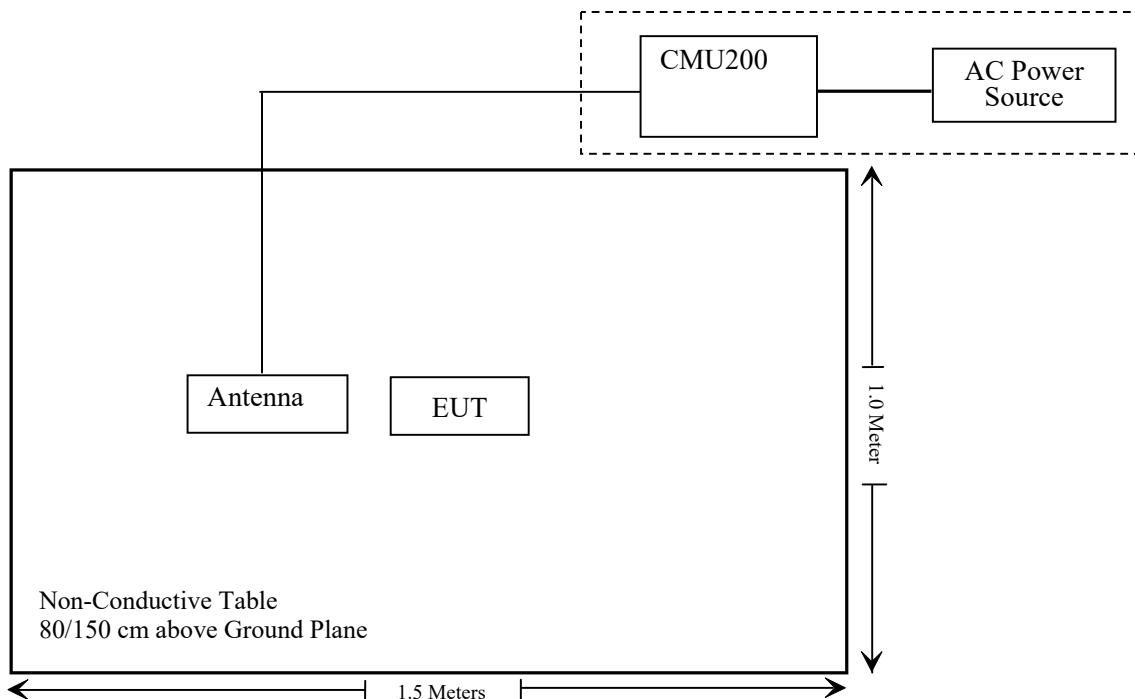
Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	110605

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§ 1.1307 , §2.1093	RF Exposure (SAR)	Compliance*
§2.1046; § 22.913 (a); § 24.232 (c); §27.50 (d) (h)	RF Output Power	Compliance
§ 2.1047	Modulation Characteristics	Not Applicable
§ 2.1049; § 22.905; § 22.917; § 24.238; §27.53	Occupied Bandwidth	Compliance
§ 2.1051; § 22.917 (a); § 24.238 (a); §27.53 (h)(m)	Spurious Emissions at Antenna Terminal	Compliance
§ 2.1053; § 22.917 (a); § 24.238 (a); §27.53 (h)(m)	Field Strength of Spurious Radiation	Compliance
§ 22.917 (a); § 24.238 (a); §27.53 (h)(m)	Band Edge	Compliance
§ 2.1055; § 22.355; § 24.235; §27.54;	Frequency stability	Compliance

Note: * Please refer to SAR report released by BACL, report number: SZ1210331-09274E-SA.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test					
R&S	EMI Test Receiver	ESR3	102455	2020/08/04	2021/08/03
Sonoma instrument	Pre-amplifier	310 N	186238	2020/08/04	2021/08/03
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2020/12/22	2023/12/21
COM-POWER	Dipole Antenna	AD-100	721027	NCR	NCR
Unknown	Cable 2	RF Cable 2	F-03-EM197	2020/11/29	2021/11/28
Unknown	Cable	Chamber Cable 1	F-03-EM236	2020/11/29	2021/11/28
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2020/08/04	2021/08/03
COM-POWER	Pre-amplifier	PA-122	181919	2020/11/29	2021/11/28
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2020/11/29	2021/11/28
Sunol Sciences	Horn Antenna	3115	9107-3694	2021/01/15	2024/01/14
A.H.System	Horn Antenna	SAS-200/571	135	2018/09/01	2021/08/31
Insulted Wire Inc.	RF Cable	SPS-2503-3150	02222010	2020/11/29	2021/11/28
Unknown	RF Cable	W1101-EQ1 OUT	F-19-EM005	2020/11/29	2021/11/28
MICRO-TRONICS	Passband filter	HPM50111	F-19-EM006	2021/04/20	2022/04/20
Unknown	High Pass filter	1.3GHz	101120	2021/04/20	2022/04/20
Ducommun Technologies	Horn antenna	ARH-4223-02	1007726-02 1304	2020/12/06	2023/12/05
Ducommun Technologies	Horn antenna	ARH-4223-02	1007726-01 1304	2020/12/06	2023/12/05
Agilent	Signal Generator	N5183A	MY51040755	2020/12/29	2021/12/28
RF Conducted Test					
Rohde & Schwarz	Signal and Spectrum Analyzer	FSV40-N	101605	2020/10/30	2021/10/29
Unknown	RF Cable	Unknown	2301 276	2020/11/29	2021/11/28
Weinschel	Power divider	1515	RH386	2021/04/21	2022/04/21
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	115500	2020/07/31	2021/07/30
instek	DC Power Supply	GPS-3030DD	EM832096	NCR	NCR
Fluke	Digital Multimeter	287	19000011	2020/07/23	2021/07/22
ESPEC	Temperature & Humidity Chamber	EL-10KA	9107726	2021/02/23	2022/02/22

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1307(b) & §2.1093 - RF EXPOSURE INFORMATION

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliance, please refer to the SAR report: SZ1210331-09274E-SA.

FCC §2.1047 - MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 24E & 27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

FCC § 2.1046, § 22.913 (a) & § 24.232 (c); §27.50 (d) - RF OUTPUT POWER**Applicable Standard**

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

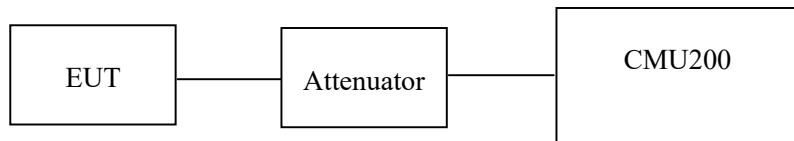
According to FCC §2.1046 and §24.232 (C), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

According to §27.50(d), the maximum EIRP must not exceed 1Watts (30dBm) for 1710-1755MHz.

Test Procedure*Conducted method:*

The RF output of the transmitter was connected to the CMU200 through sufficient attenuation.



ANSI C63.26-2015 section 5.5.3.

Test Data**Environmental Conditions**

Temperature:	24 °C
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Zero Yan on 2021-05-26.

Conducted Power**Cellular Band (Part 22H)**

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)	ERP(dBm)	Limit (dBm)
GSM	128	824.2	31.21	29.66	38.45
	190	836.6	31.34	29.79	38.45
	251	848.8	31.58	30.03	38.45

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)				ERP(dBm)				Limit (dBm)
			1 slot	2slots	3slots	4slots	1 slot	2slots	3slots	4slots	
GPRS	128	824.2	31.25	29.3	27.35	25.24	29.70	27.75	25.80	23.69	38.45
	190	836.6	31.26	29.46	27.51	25.33	29.71	27.91	25.96	23.78	38.45
	251	848.8	31.66	29.54	27.49	25.47	30.11	27.99	25.94	23.92	38.45

Mode	Test Mode	3GPP Sub Test	Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
WCDMA (Band 5)	HSDPA	RMC12.2k	22.80	22.9	22.61	21.25	21.35	21.06
		1	20.82	21.71	21.75	19.27	20.16	20.20
		2	20.94	21.87	21.33	19.39	20.32	19.78
		3	20.64	21.61	21.47	19.09	20.06	19.92
		4	20.69	21.62	21.74	19.14	20.07	20.19
	HSUPA	1	21.17	21.9	21.66	19.62	20.35	20.11
		2	20.84	21.94	21.56	19.29	20.39	20.01
		3	21.17	21.98	21.33	19.62	20.43	19.78
		4	20.60	21.85	21.49	19.05	20.30	19.94
		5	21.07	22.14	21.50	19.52	20.59	19.95

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd) - Cable Loss(dB)

For GSM850&WCDMA Band5: Antenna Gain = 1.1dBi = -1.05dBd (0dBd=2.15dBi)

Cable Loss=0.5dB* (provided by the applicant)

Limit: $\text{ERP} \leq 38.45 \text{ dBm}$

PCS Band (Part 24E)

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)	EIRP(dBm)	Limit (dBm)
GSM	512	1850.2	28.60	29.00	33
	661	1880.0	28.60	29.00	33
	810	1909.8	28.70	29.10	33

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)				EIRP(dBm)				Limit (dBm)
			1 slot	2slots	3slots	4slots	1 slot	2slots	3slots	4slots	
GPRS	512	1850.2	29.21	27.23	25.29	23.37	29.61	27.63	25.69	23.77	33
	661	1880.0	29.05	27.11	25.19	23.24	29.45	27.51	25.59	23.64	33
	810	1909.8	29.01	27.08	25.14	23.18	29.41	27.48	25.54	23.58	33

Mode	Test Mode	3GPP Sub Test	Average Output Power (dBm)			EIRP(dBm)			Low	Mid	High
			Low	Mid	High	Low	Mid	High			
WCDMA (Band 2)	RMC12.2k		22.38	22.66	22.69	22.78	23.06	23.09			
	HSDPA	1	20.73	21.68	21.58	21.13	22.08	21.98			
		2	20.89	21.94	21.34	21.29	22.34	21.74			
		3	20.51	21.75	21.58	20.91	22.15	21.98			
		4	20.65	21.95	21.34	21.05	22.35	21.74			
	HSUPA	1	20.91	22.09	21.54	21.31	22.49	21.94			
		2	21.02	21.75	21.40	21.42	22.15	21.80			
		3	21.16	21.64	21.75	21.56	22.04	22.15			
		4	20.59	21.66	21.45	20.99	22.06	21.85			
		5	21.06	22.00	21.81	21.46	22.40	22.21			

Note: EIRP (dBm) = Conducted Power (dBm) + Antenna Gain(dBi) - Cable Loss(dB)

For PCS1900&WCDMA Band2: Antenna Gain = 1.2dBi

Cable Loss=0.8dB*(provided by the applicant)

Limit: EIRP≤33dBm

AWS Band (Part 27)

Mode	Test Mode	3GPP Sub Test	Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
WCDMA (Band 4)	HSDPA	RMC12.2k	22.77	22.59	22.50	23.17	22.99	22.90
		1	21.14	21.69	21.70	21.54	22.09	22.10
		2	20.75	21.62	21.74	21.15	22.02	22.14
		3	20.49	21.88	21.36	20.89	22.28	21.76
		4	20.78	21.74	21.68	21.18	22.14	22.08
	HSUPA	1	20.94	21.82	21.45	21.34	22.22	21.85
		2	20.76	21.71	21.47	21.16	22.11	21.87
		3	20.73	21.98	21.63	21.13	22.38	22.03
		4	21.06	22.02	21.63	21.46	22.42	22.03
		5	20.98	21.84	21.78	21.38	22.24	22.18

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi) - Cable Loss(dB)

For Band4: Antenna Gain = 1.2dBi

Cable Loss=0.8dB*(provided by the applicant)

Limit: EIRP≤30dBm

Peak-to-average ratio (PAR)**Cellular Band**

Mode	Channel	PAR (dB)	Limit (dB)
GSM	Low	3.32	13
	Middle	3.44	13
	High	3.51	13

Mode	Channel	PAR (dB)	Limit (dB)
RMC (BPSK)	Low	3.23	13
	Middle	3.18	13
	High	3.31	13
HSDPA (16QAM)	Low	3.27	13
	Middle	3.18	13
	High	3.41	13
HSUPA (BPSK)	Low	3.29	13
	Middle	3.46	13
	High	3.53	13

PCS Band

Mode	Channel	PAR (dB)	Limit (dB)
GSM	Low	3.47	13
	Middle	3.41	13
	High	3.42	13

Mode	Channel	PAR (dB)	Limit (dB)
RMC (BPSK)	Low	3.16	13
	Middle	3.24	13
	High	3.09	13
HSDPA (16QAM)	Low	3.28	13
	Middle	3.22	13
	High	3.11	13
HSUPA (BPSK)	Low	3.46	13
	Middle	3.51	13
	High	3.22	13

AWS Band

Mode	Channel	PAR (dB)	Limit (dB)
RMC (BPSK)	Low	3.46	13
	Middle	3.58	13
	High	3.32	13
HSDPA (16QAM)	Low	3.81	13
	Middle	3.42	13
	High	3.58	13
HSUPA (BPSK)	Low	3.14	13
	Middle	3.19	13
	High	3.25	13

FCC §2.1049, §22.917, §22.905 & §24.238 & §27.53 - OCCUPIED BANDWIDTH

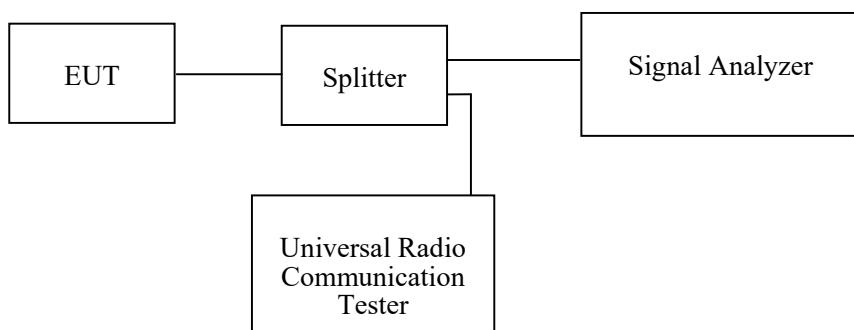
Applicable Standard

FCC 47 §2.1049, §22.917, §22.905, §24.238 and §27.53.

Test Procedure

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 1% to 5% of the anticipated emission bandwidth and the 26 dB & 99% bandwidth was recorded.



Test Data

Environmental Conditions

Temperature:	24 °C
Relative Humidity:	52%
ATM Pressure:	101.0 kPa

The testing was performed by Zero Yan on 2021-05-26.

EUT operation mode: Transmitting

Test Result: Compliance. Please refer to the following tables and plots.

Cellular Band (Part 22H)

Mode	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
GSM(GMSK)	824.2	246.02	316.90
	836.6	247.47	316.90
	848.8	244.57	322.70

	Frequency (MHz)	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
RMC	826.4	4.15	4.67
	836.6	4.14	4.67
	846.6	4.14	4.67
HSDPA	826.4	4.15	4.67
	836.6	4.14	4.67
	846.6	4.15	4.67
HSUPA	826.4	4.15	4.67
	836.6	4.14	4.66
	846.6	4.15	4.69

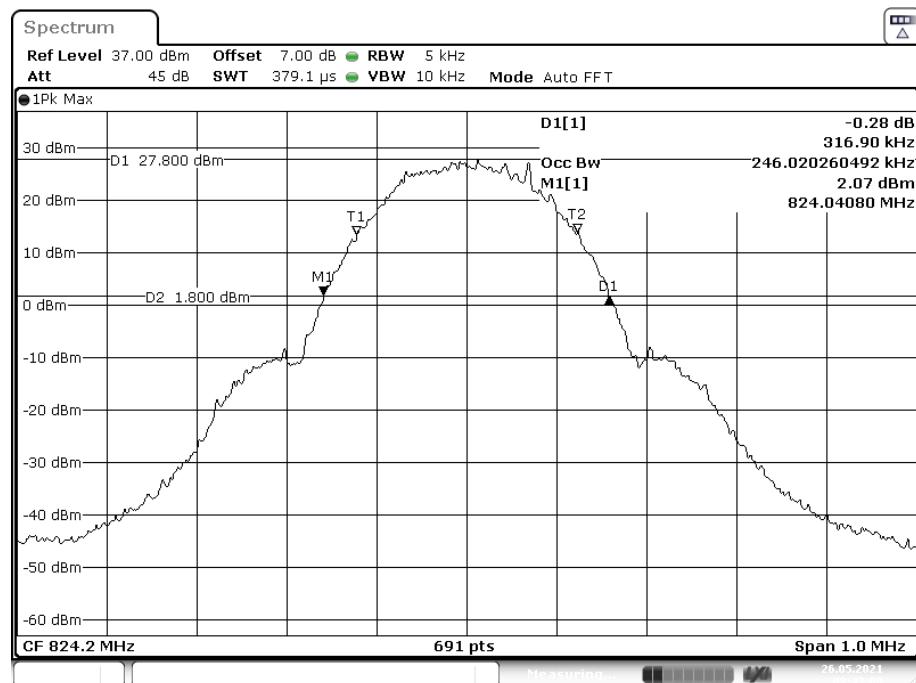
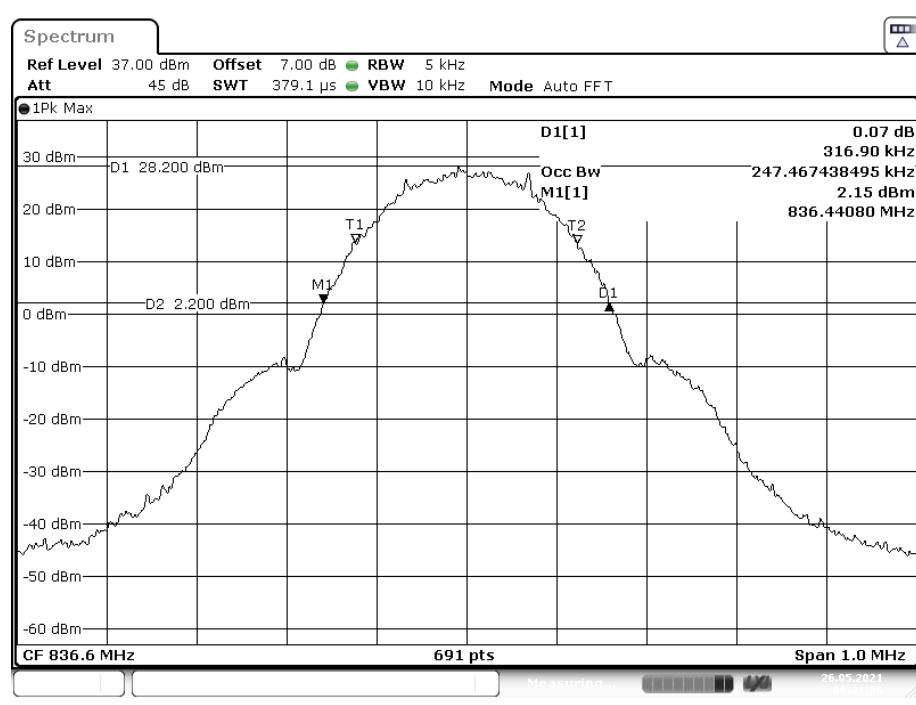
PCS Band (Part 24E)

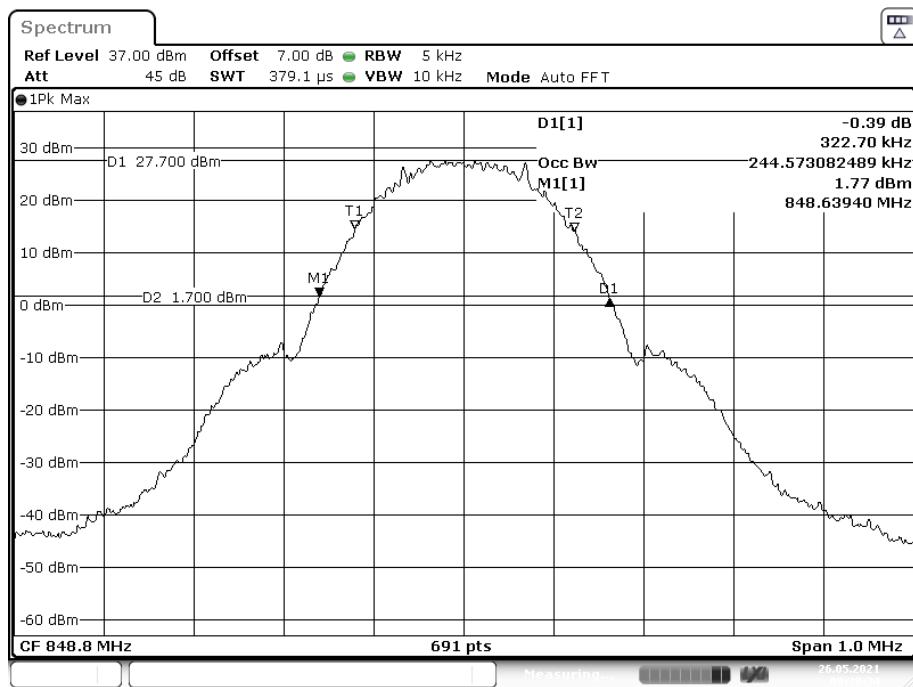
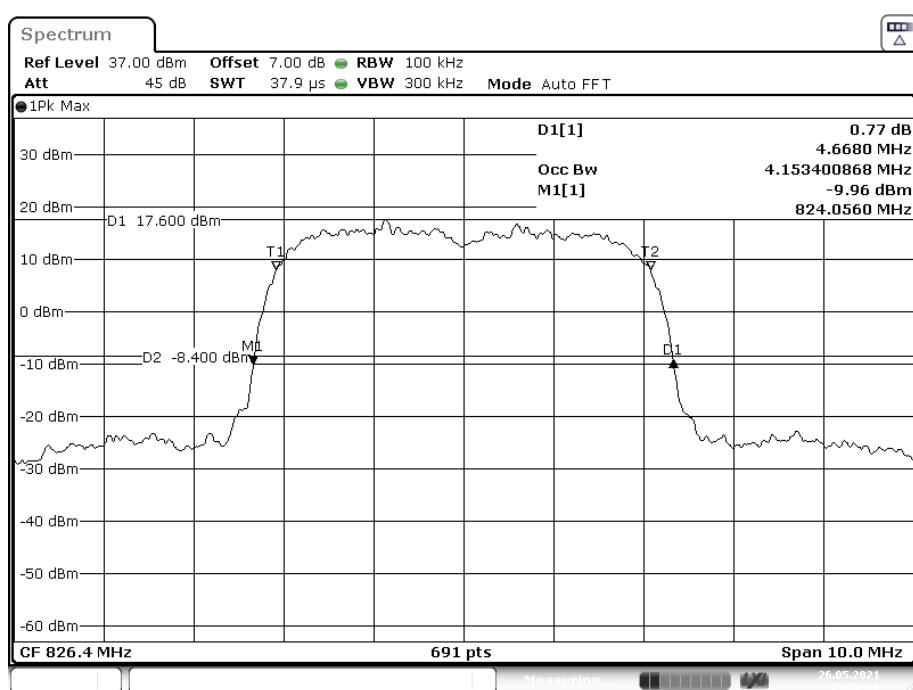
Mode	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
GSM(GMSK)	1850.2	244.57	321.30
	1880.0	246.02	321.30
	1909.8	247.47	319.80

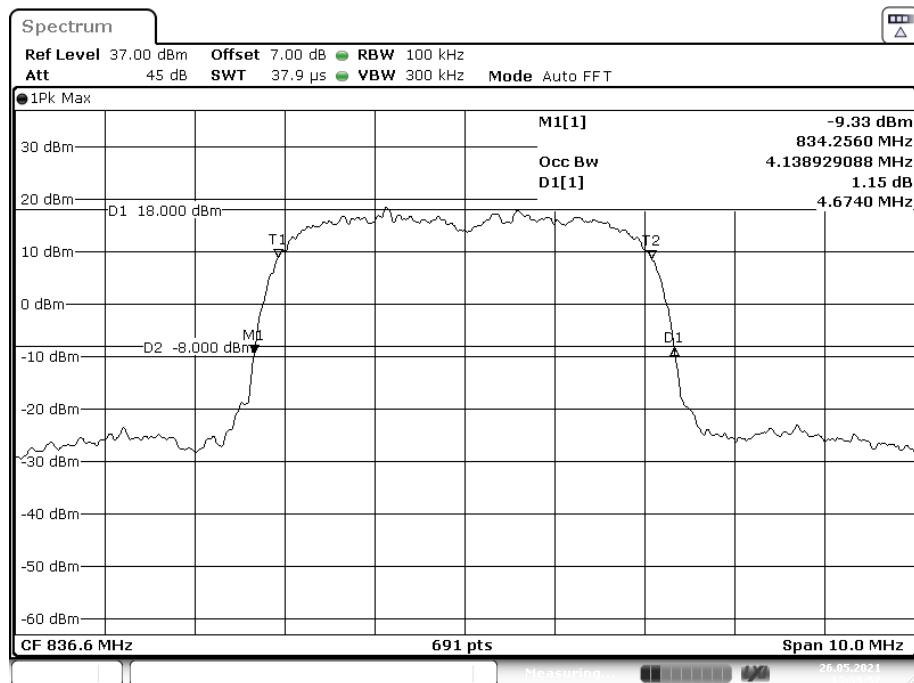
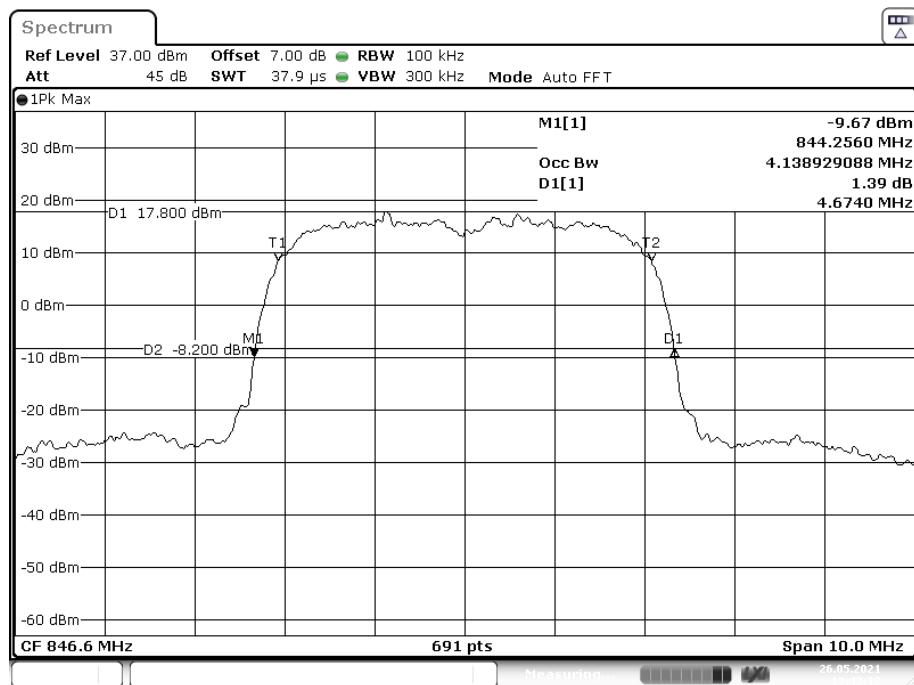
	Frequency (MHz)	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
RMC	1852.4	4.15	4.67
	1880.0	4.14	4.67
	1907.6	4.15	4.69
HSDPA	1852.4	4.15	4.69
	1880.0	4.17	4.67
	1907.6	4.17	4.67
HSUPA	1852.4	4.15	4.67
	1880.0	4.15	4.67
	1907.6	4.15	4.67

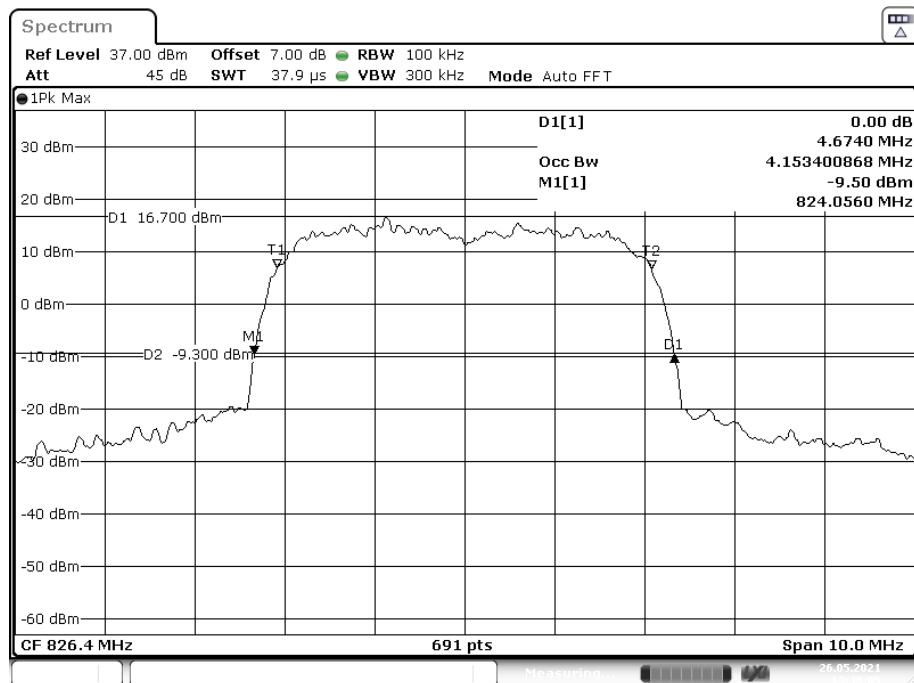
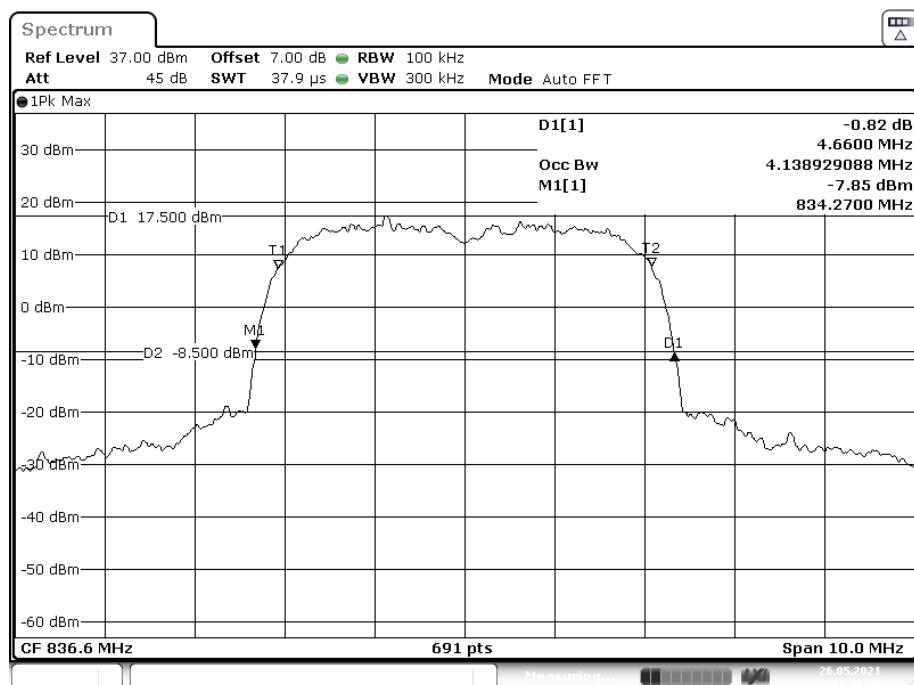
AWS Band (Part 27)

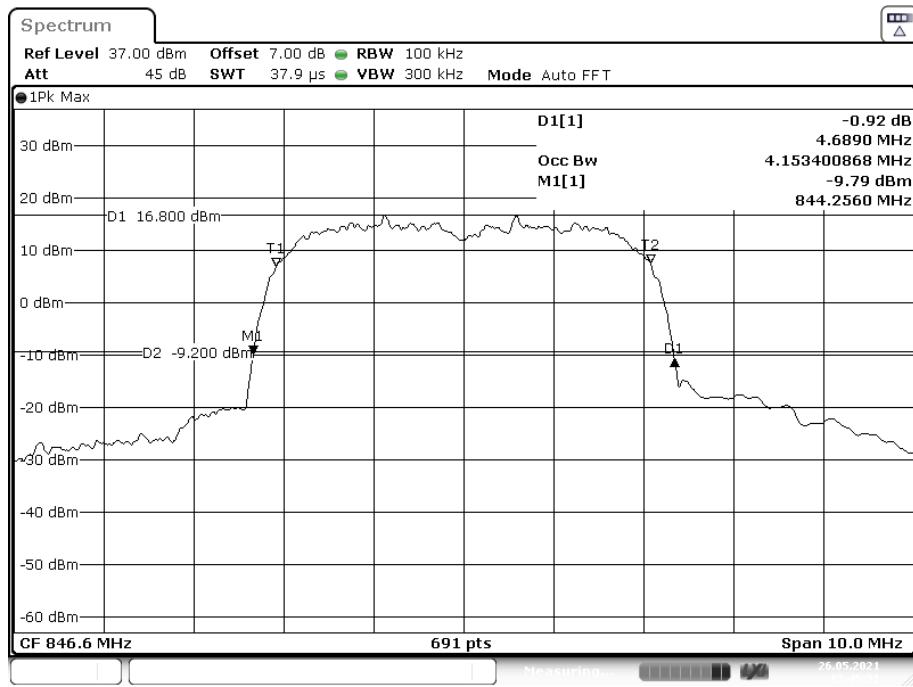
Frequency (MHz)		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
RMC	1712.4	4.15	4.69
	1732.6	4.15	4.69
	1752.6	4.14	4.69
HSDPA	1712.4	4.15	4.67
	1732.6	4.17	4.67
	1752.6	4.15	4.69
HSUPA	1712.4	4.14	4.67
	1732.6	4.14	4.69
	1752.6	4.14	4.66

Cellular Band (Part 22H)**26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, Low Channel****26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, middle channel**

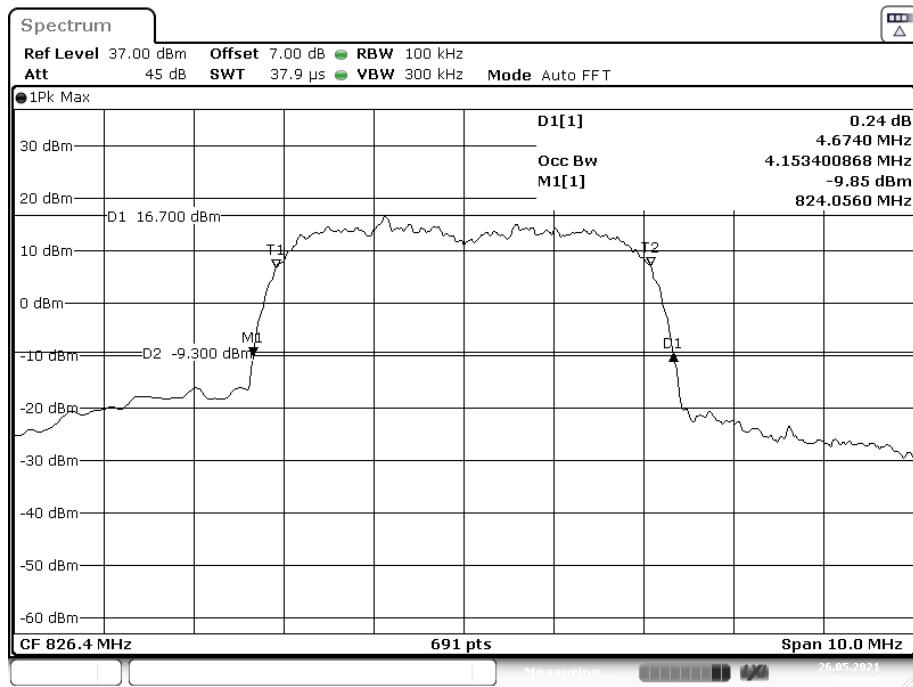
26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, high channel**26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, Low Channel**

26 dB Emissions &99% Occupied Bandwidth for RMC (BPSK) Mode, middle channel**26 dB Emissions &99% Occupied Bandwidth for RMC (BPSK) Mode, high channel**

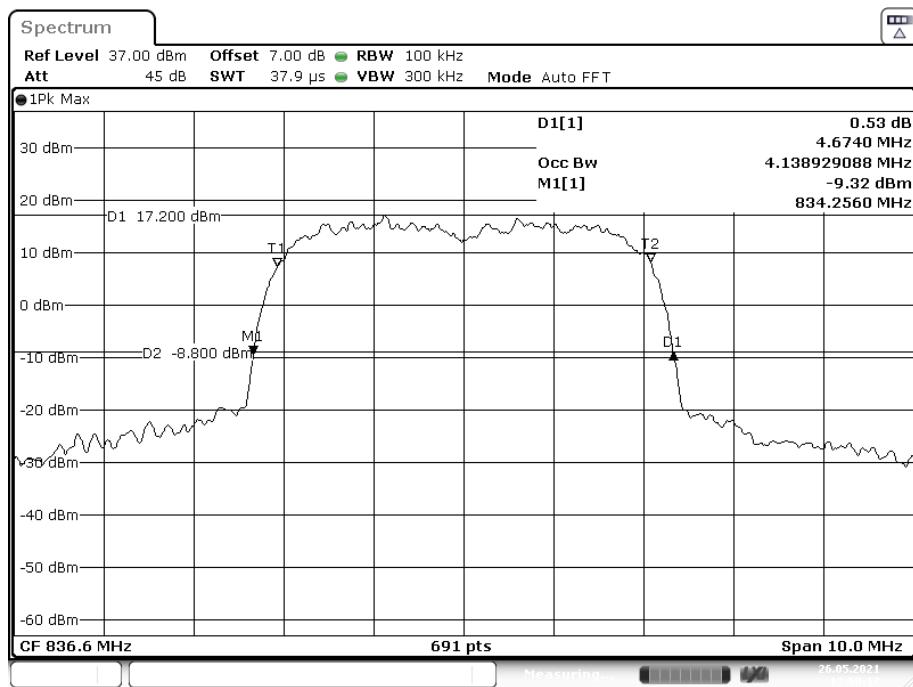
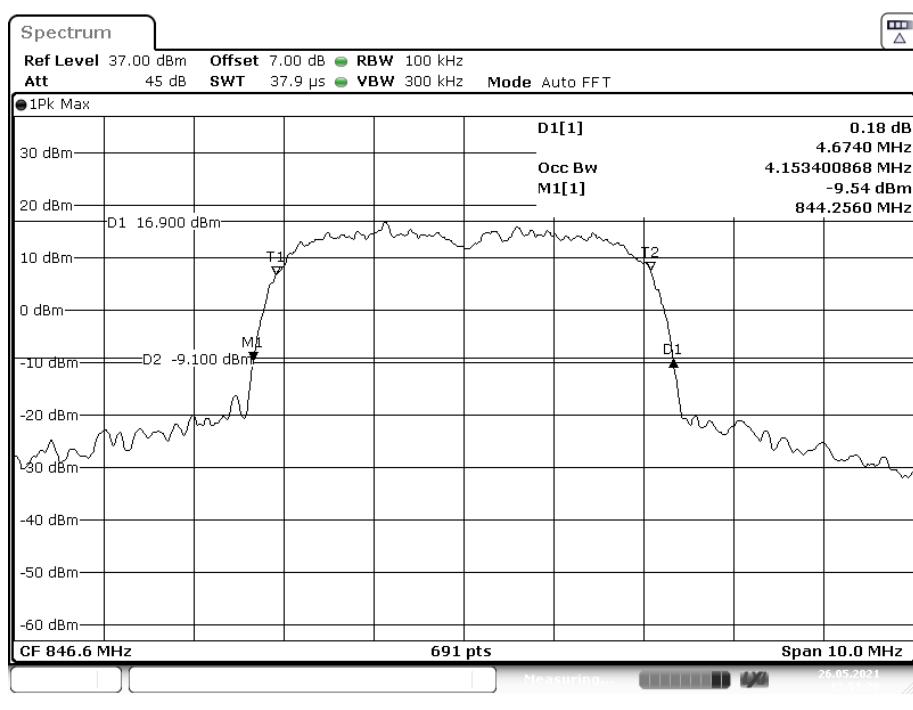
26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, Low Channel**26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, middle channel**

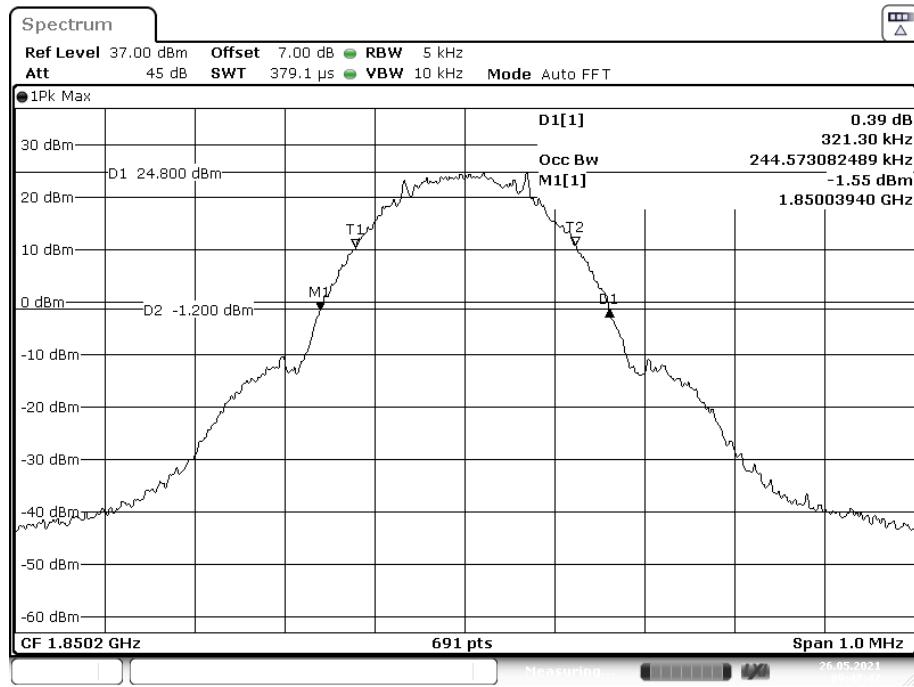
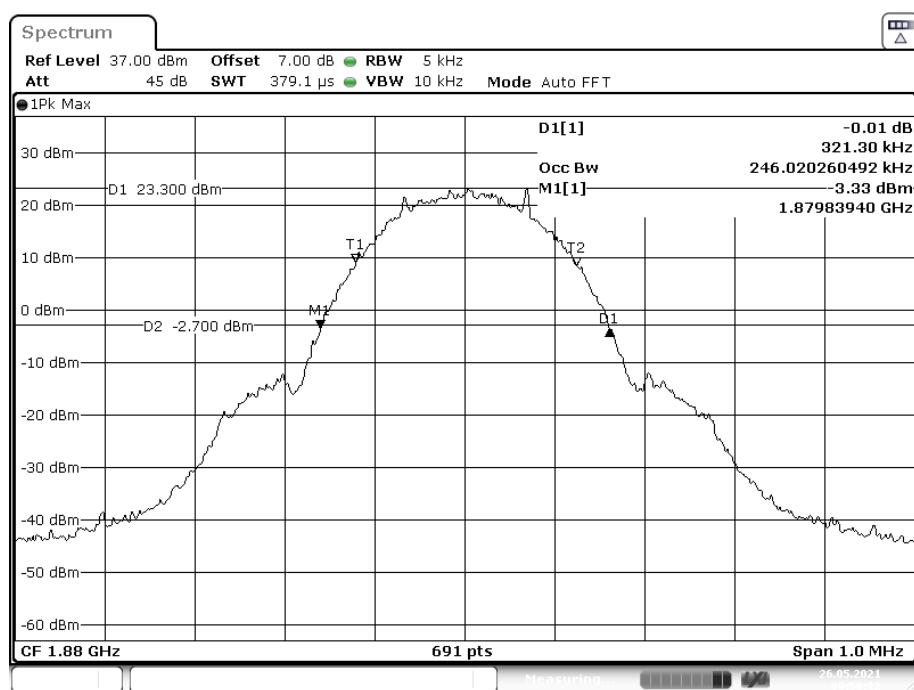
26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, high channel

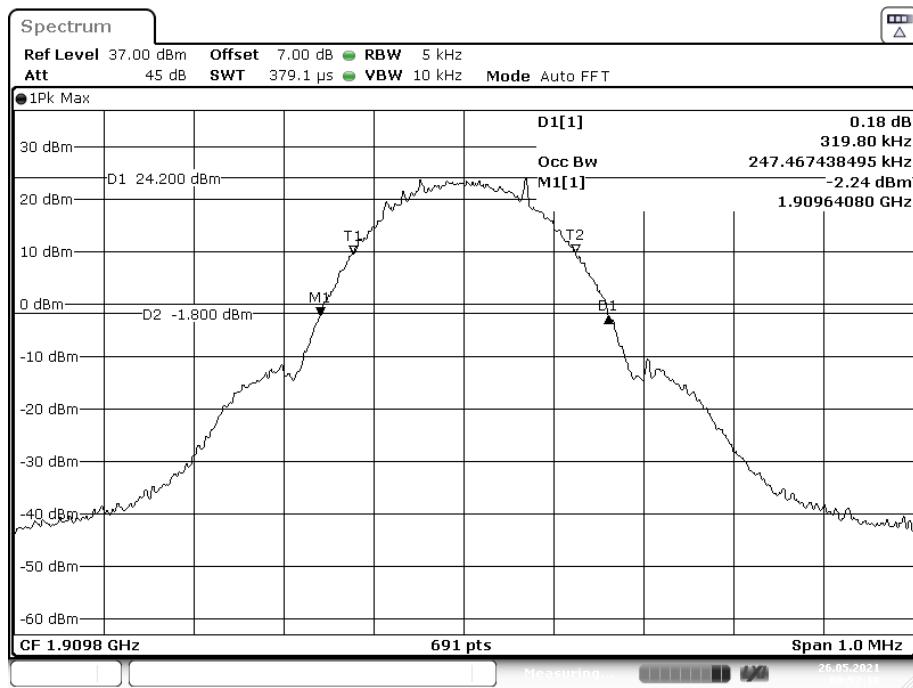
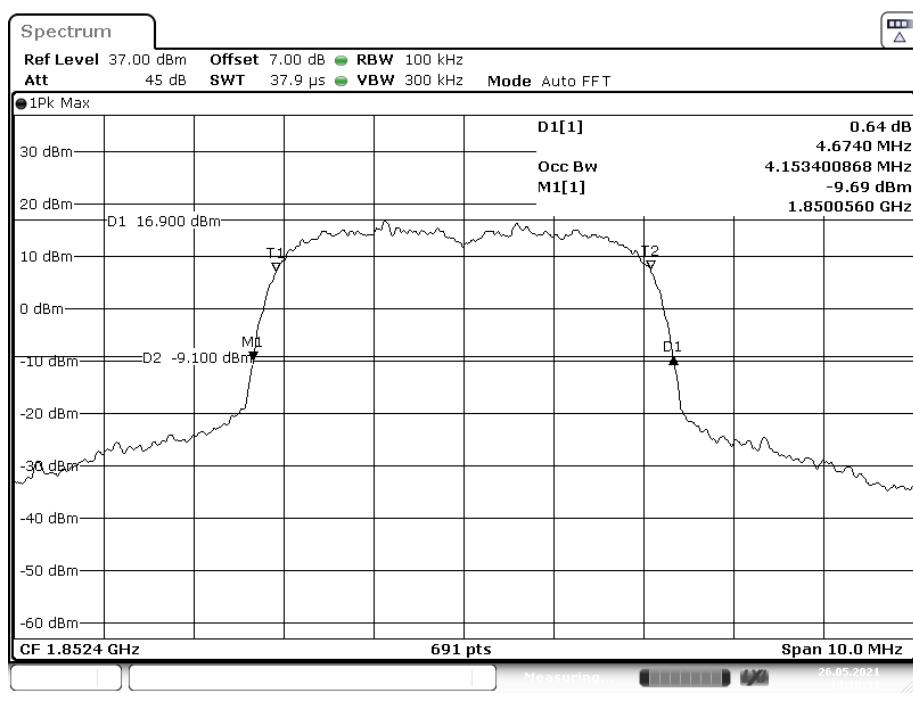
Date: 26.MAY.2021 13:45:32

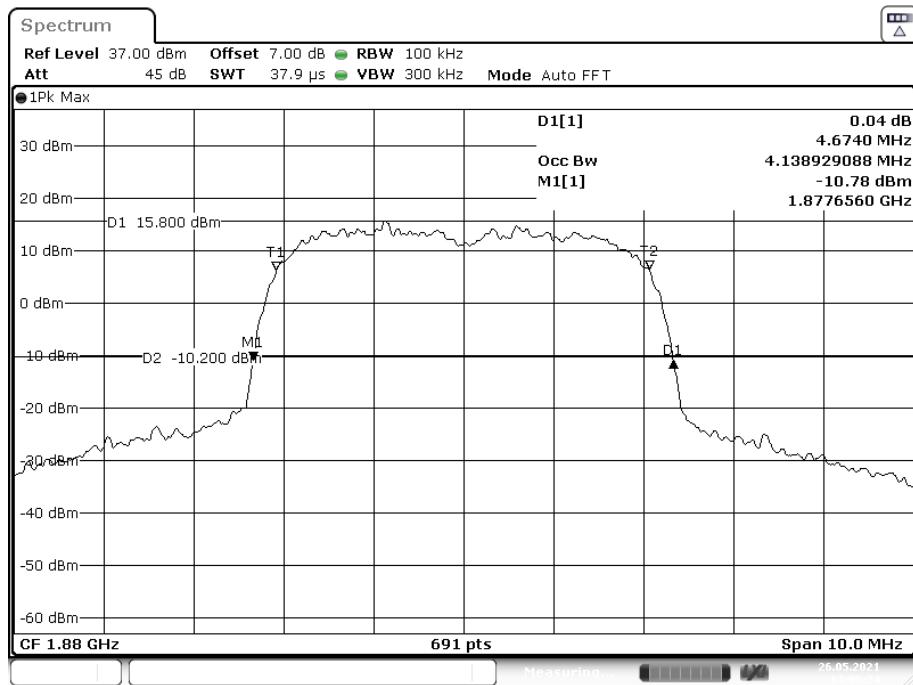
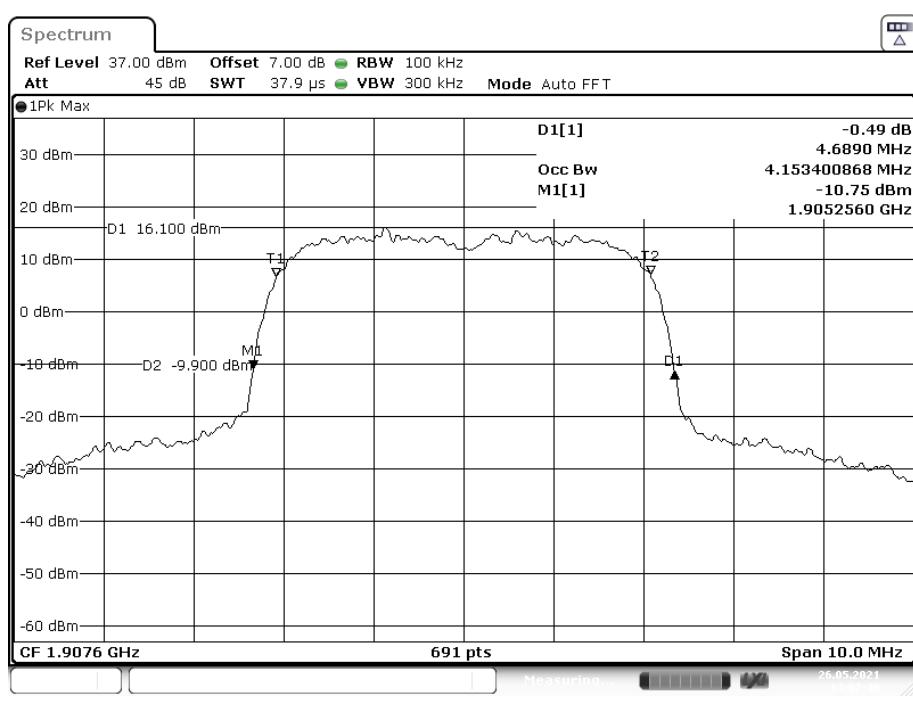
26 dB Emissions & 99% Occupied Bandwidth for HSDPA (16QAM) Mode, Low channel

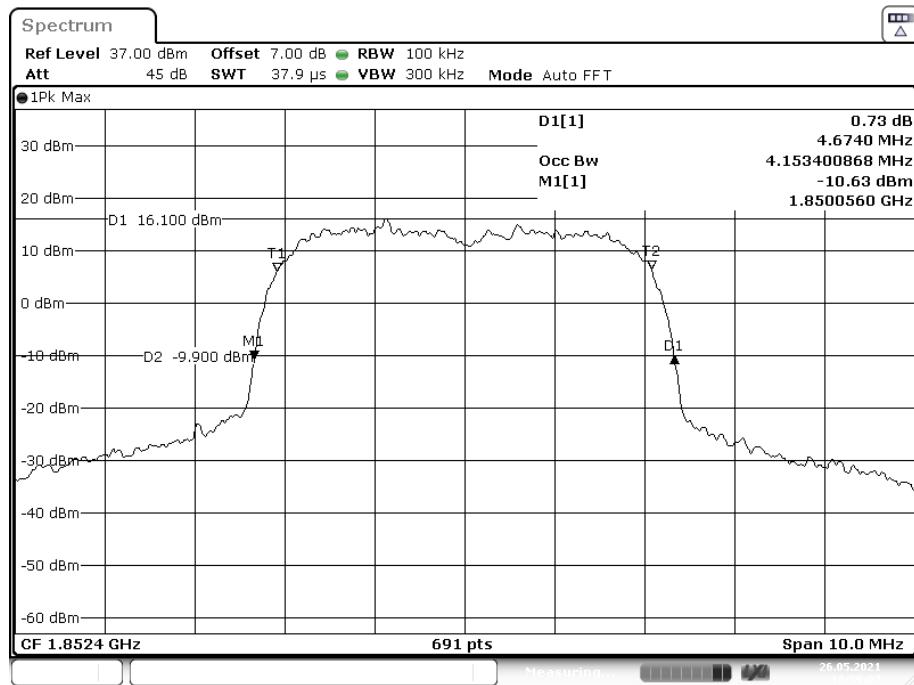
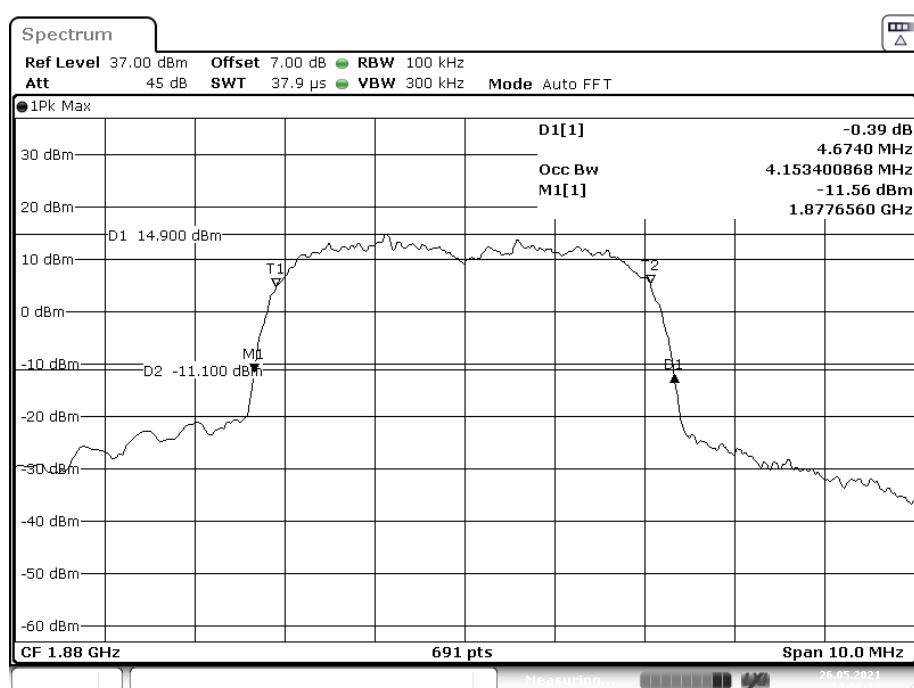
Date: 26.MAY.2021 13:49:14

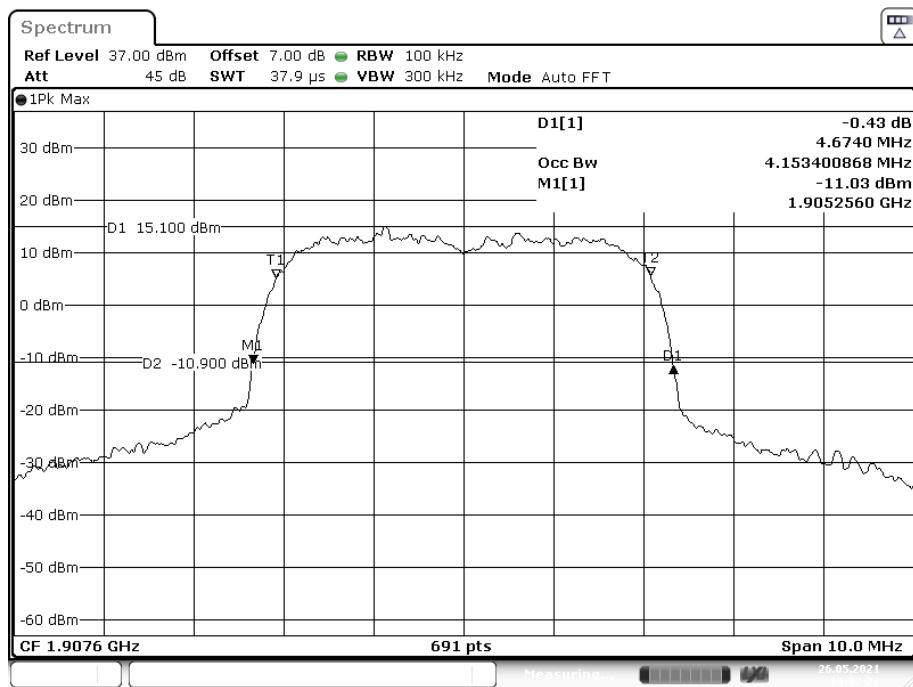
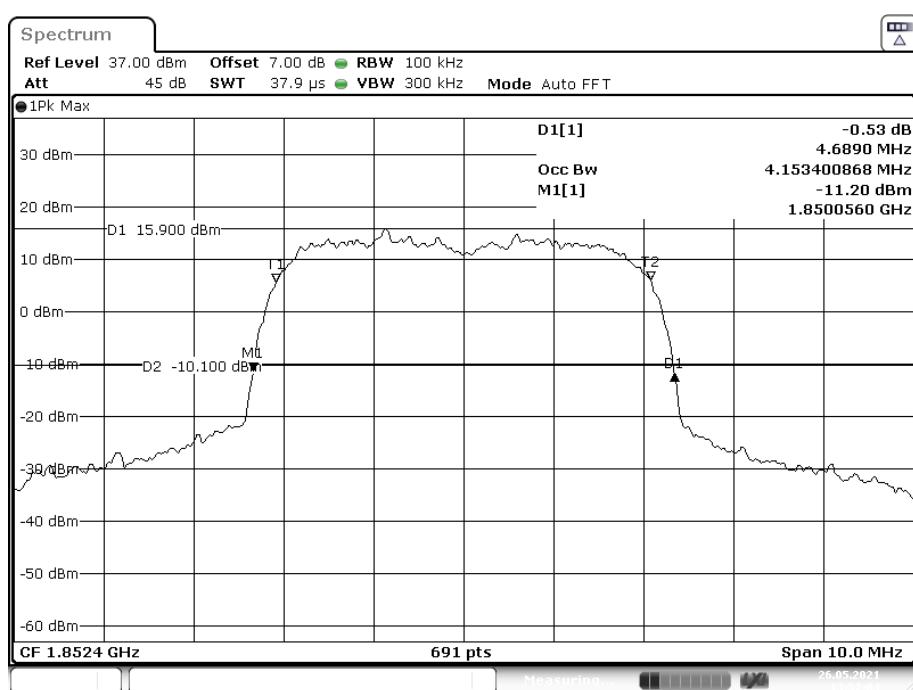
26 dB Emissions &99% Occupied Bandwidth for HSDPA (16QAM) Mode, middle channel**26 dB Emissions &99% Occupied Bandwidth for HSDPA (16QAM) Mode, high channel**

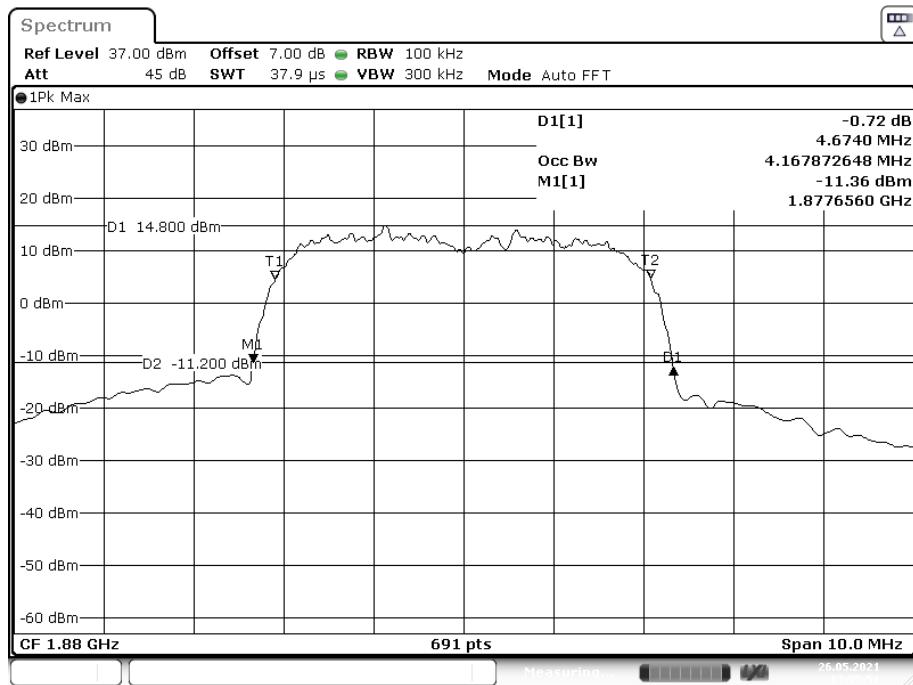
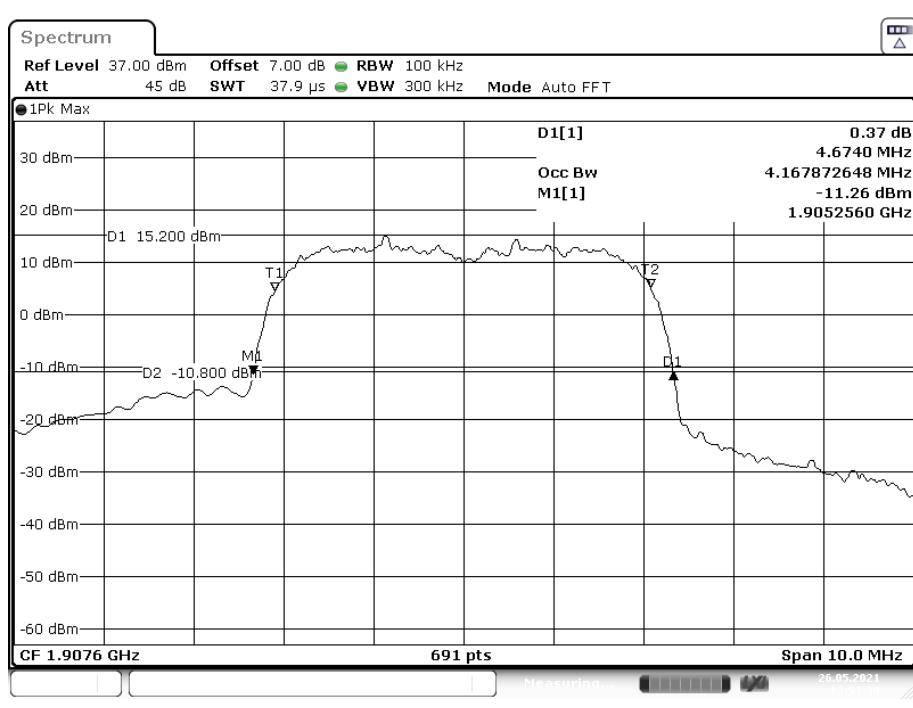
PCS Band (Part 24E)**26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, Low Channel****26 dB Emissions & 99% Occupied Bandwidth for GSM (GMSK) Mode, middle channel**

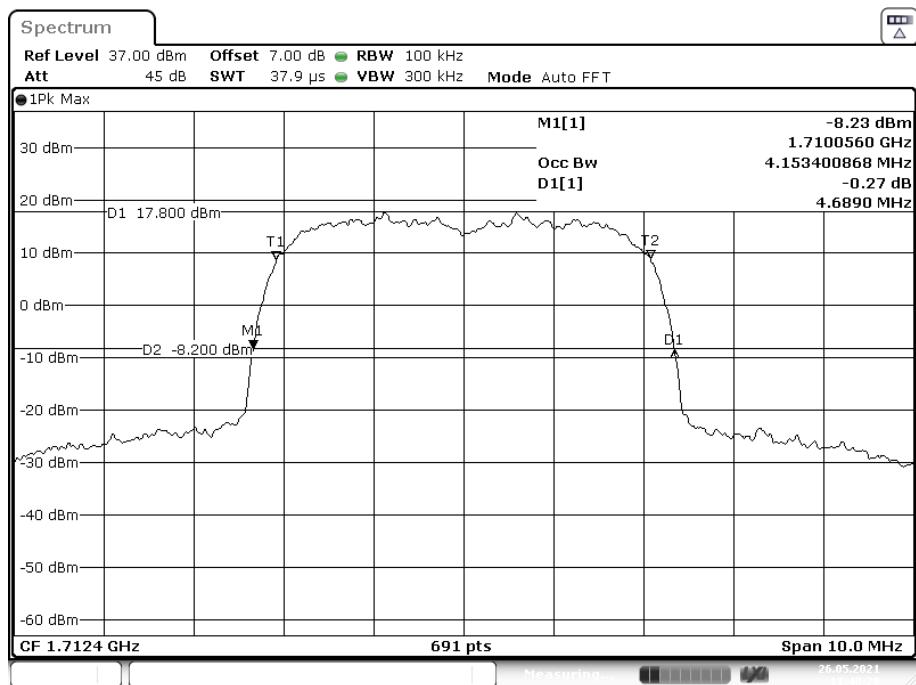
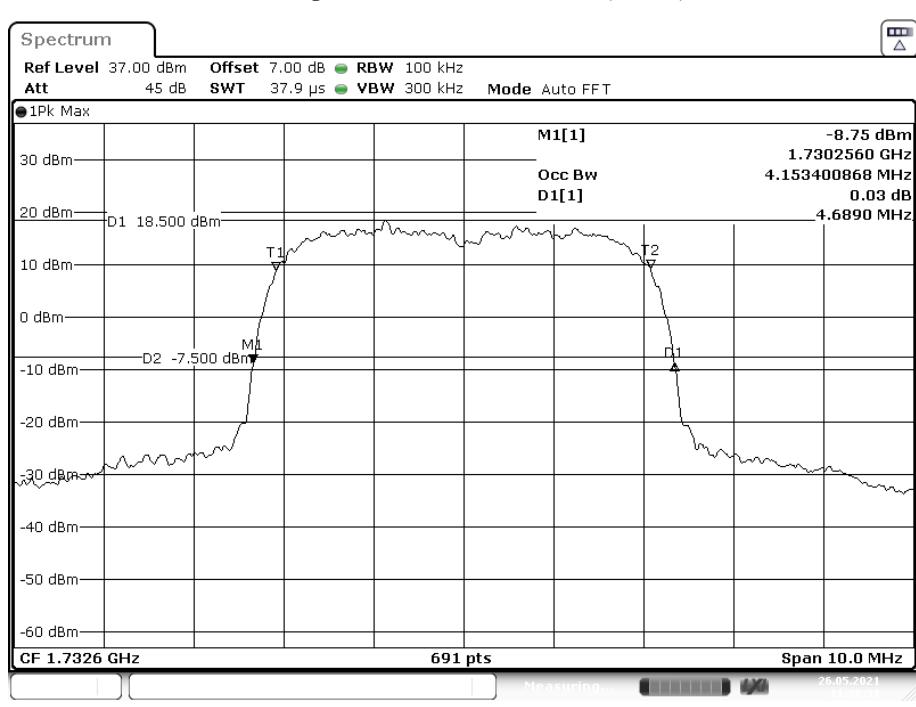
26 dB Emissions &99% Occupied Bandwidth for GSM (GMSK) Mode, high channel**26 dB Emissions &99% Occupied Bandwidth for RMC (BPSK) Mode, Low Channel**

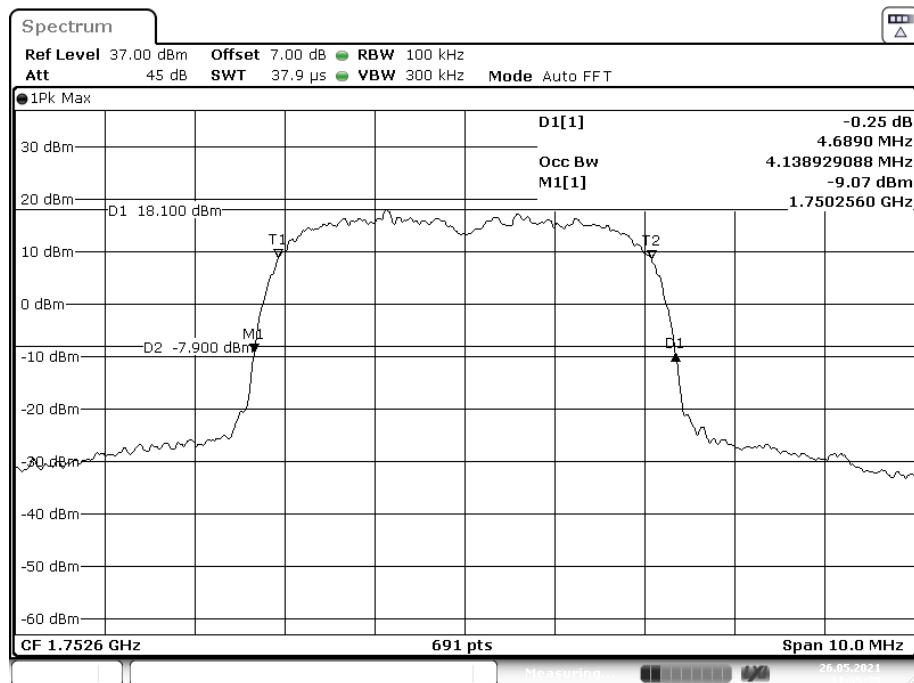
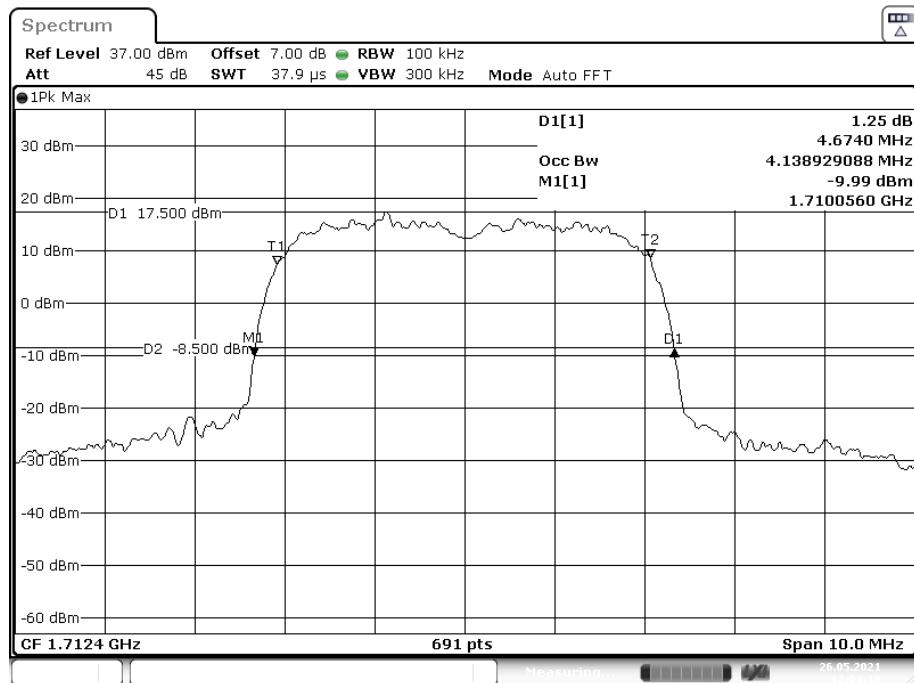
26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, middle channel**26 dB Emissions & 99% Occupied Bandwidth for RMC (BPSK) Mode, high channel**

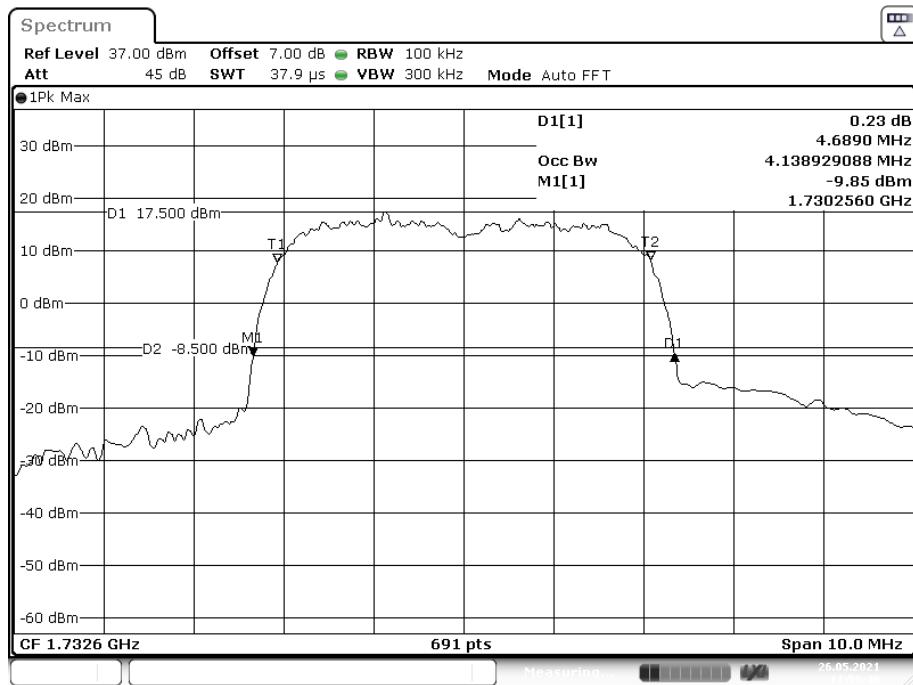
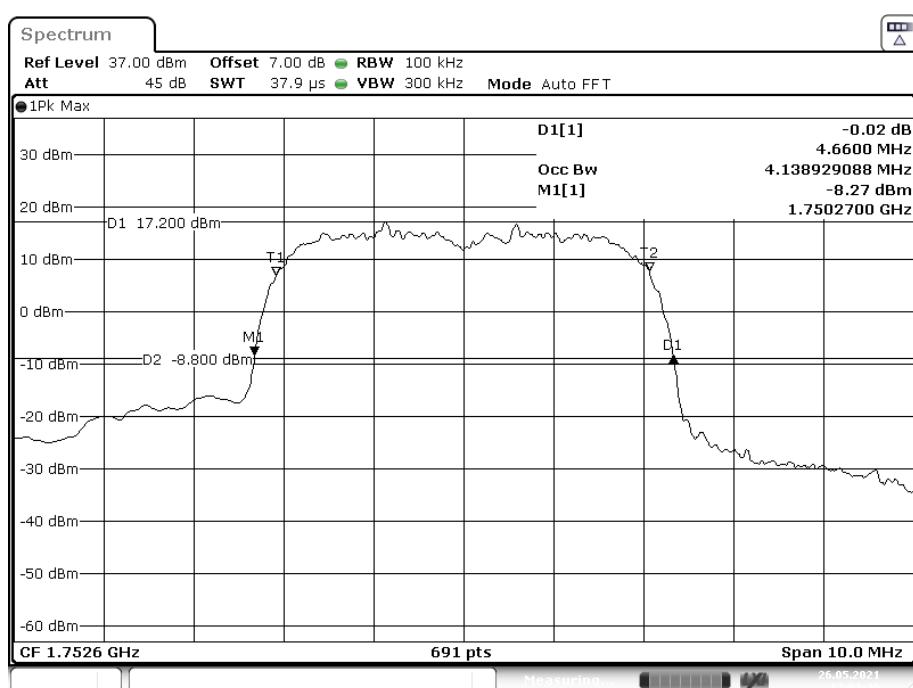
26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, Low Channel**26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, middle channel**

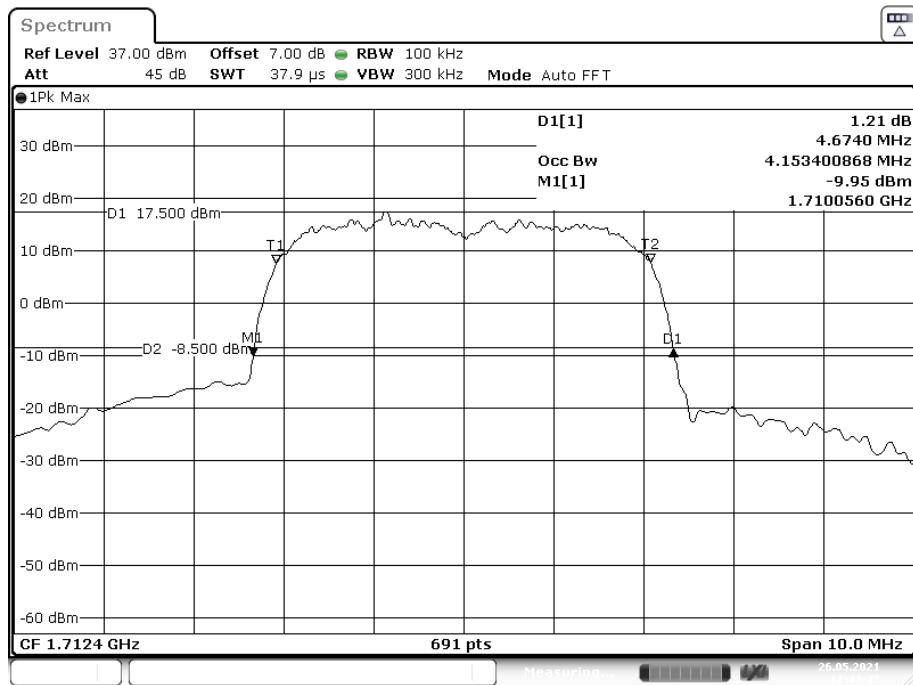
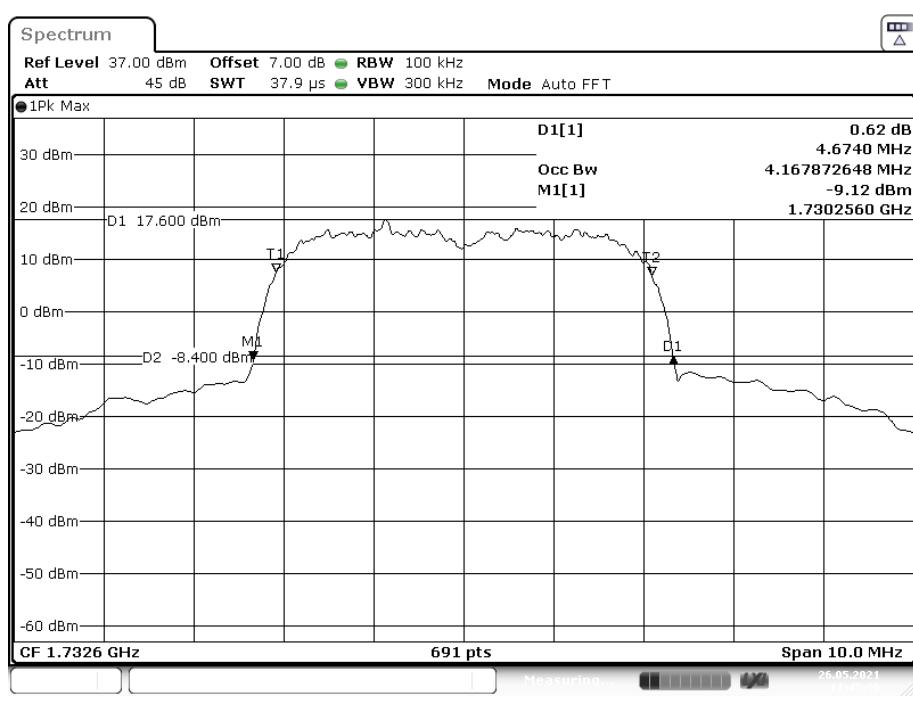
26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, high channel**26 dB Emissions & 99% Occupied Bandwidth for HSDPA (16QAM) Mode, Low channel**

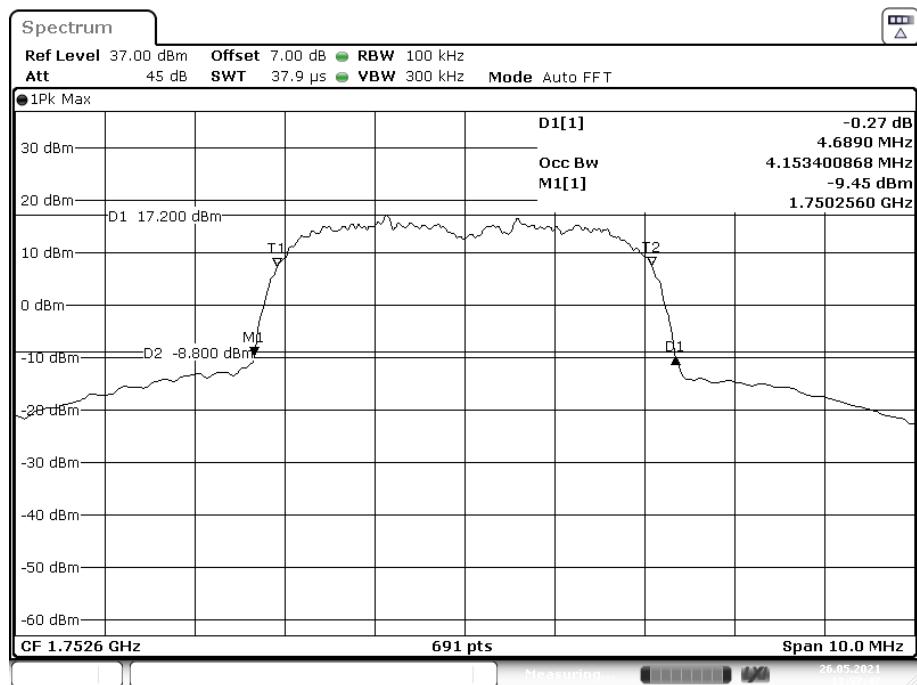
26 dB Emissions &99% Occupied Bandwidth for HSDPA (16QAM) Mode, middle channel**26 dB Emissions &99% Occupied Bandwidth for HSDPA (16QAM) Mode, high channel**

AWS Band (Part 27)**26 dB Emissions &99% Occupied Bandwidth for RMC (BPSK) Mode, Low channel****26 dB Emissions &99% Occupied Bandwidth for RMC (BPSK) Mode, middle channel**

26 dB Emissions &99% Occupied Bandwidth for RMC (BPSK) Mode, high channel**26 dB Emissions &99% Occupied Bandwidth for HSUPA (BPSK) Mode, Low channel**

26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, middle channel**26 dB Emissions & 99% Occupied Bandwidth for HSUPA (BPSK) Mode, high channel**

26 dB Emissions &99% Occupied Bandwidth for HSDPA (16QAM) Mode, Low channel**26 dB Emissions &99% Occupied Bandwidth for HSDPA (16QAM) Mode, middle channel**

26 dB Emissions & 99% Occupied Bandwidth for HSDPA (16QAM) Mode, high channel

FCC §2.1051, §22.917(a) & §24.238(a); §27.53 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

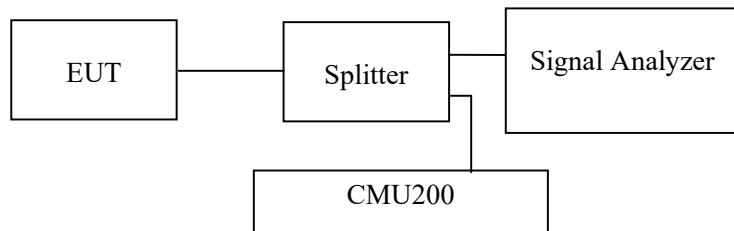
Applicable Standard

FCC §2.1051, §22.917(a) and §24.238(a) and §27.53.

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonic.



Test Data

Environmental Conditions

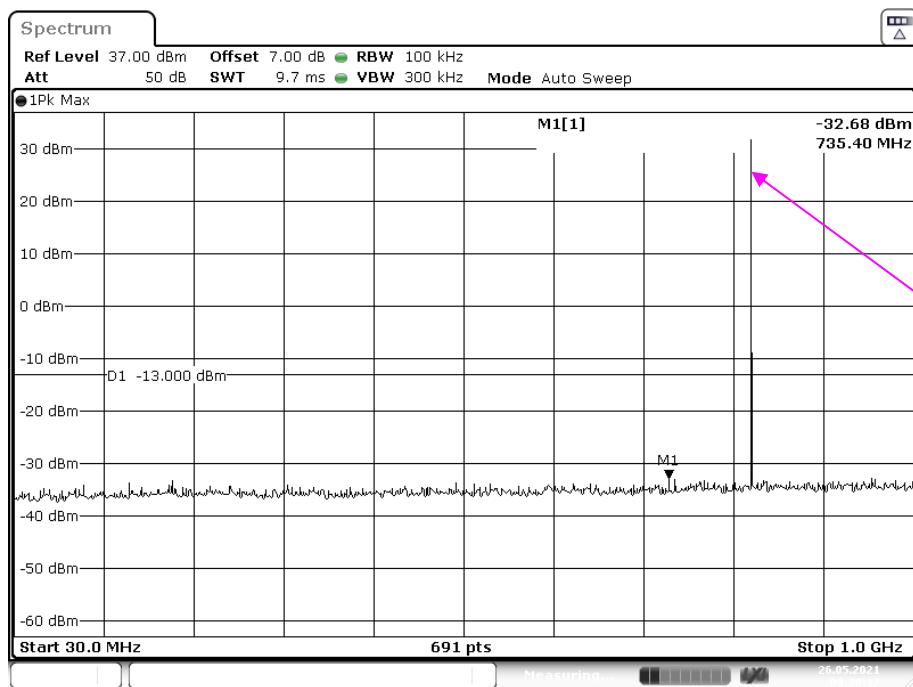
Temperature:	24 °C
Relative Humidity:	52%
ATM Pressure:	101.0 kPa

The testing was performed by Zero Yan on 2021-05-26.

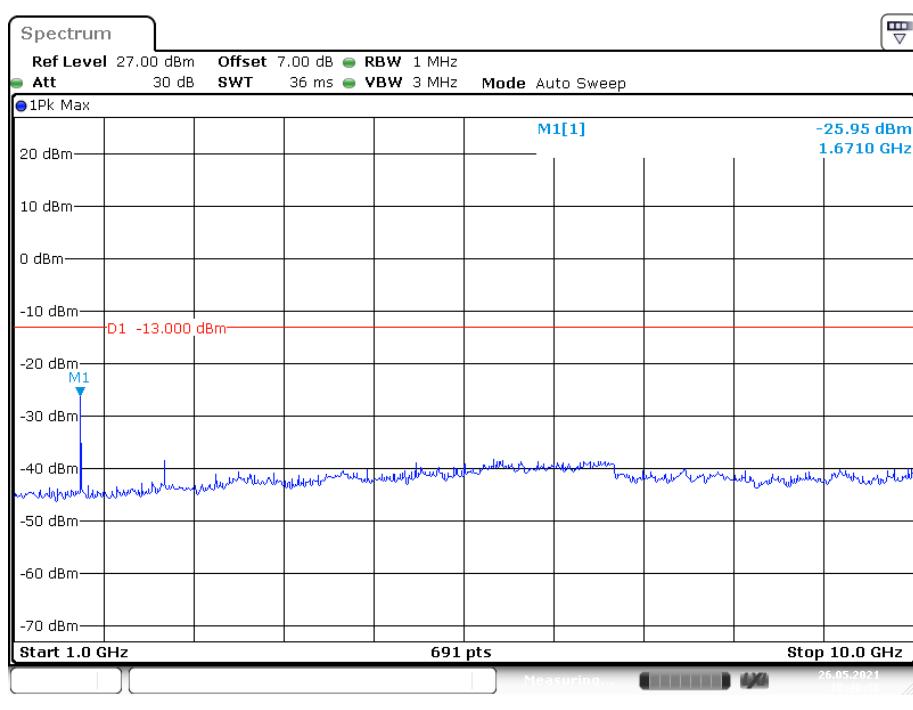
Test result: Compliance.

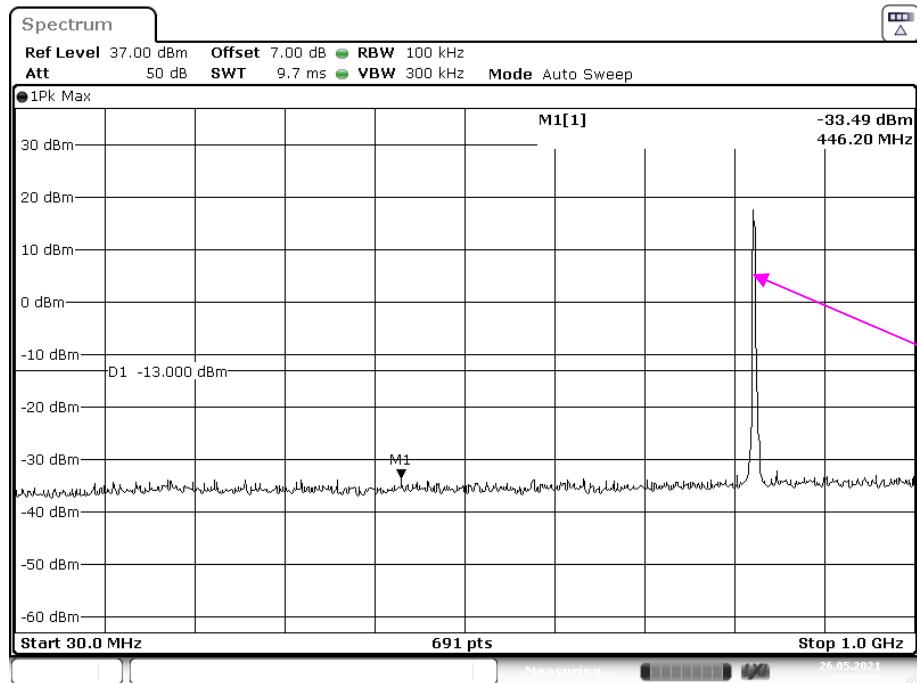
EUT operation mode: transmitting

Please refer to the following plots.

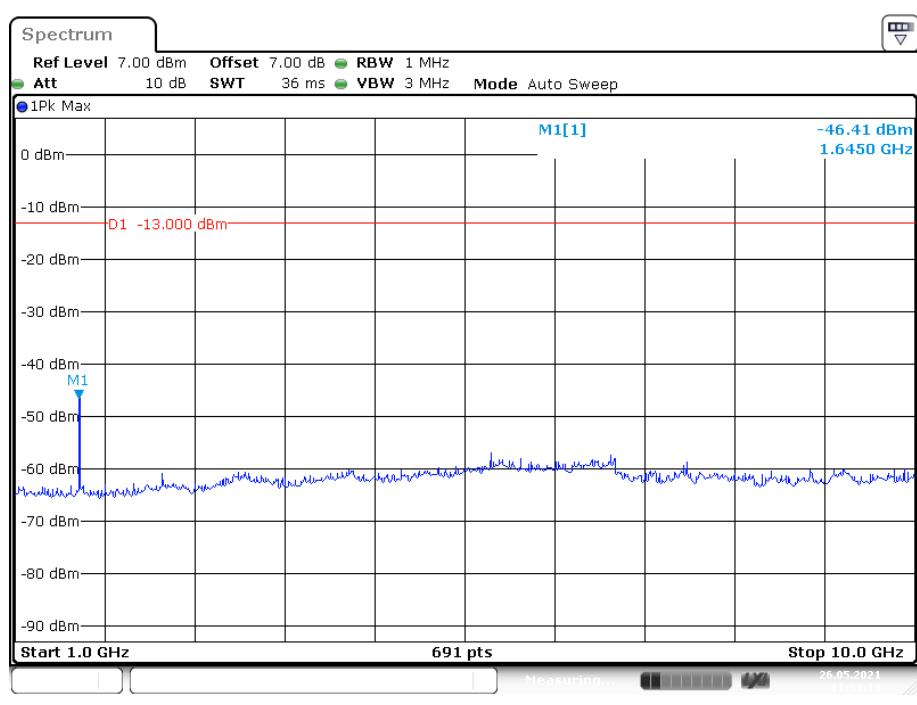
**Low Channel
Cellular Band (Part 22H)**
30 MHz – 1 GHz (GSM Mode)


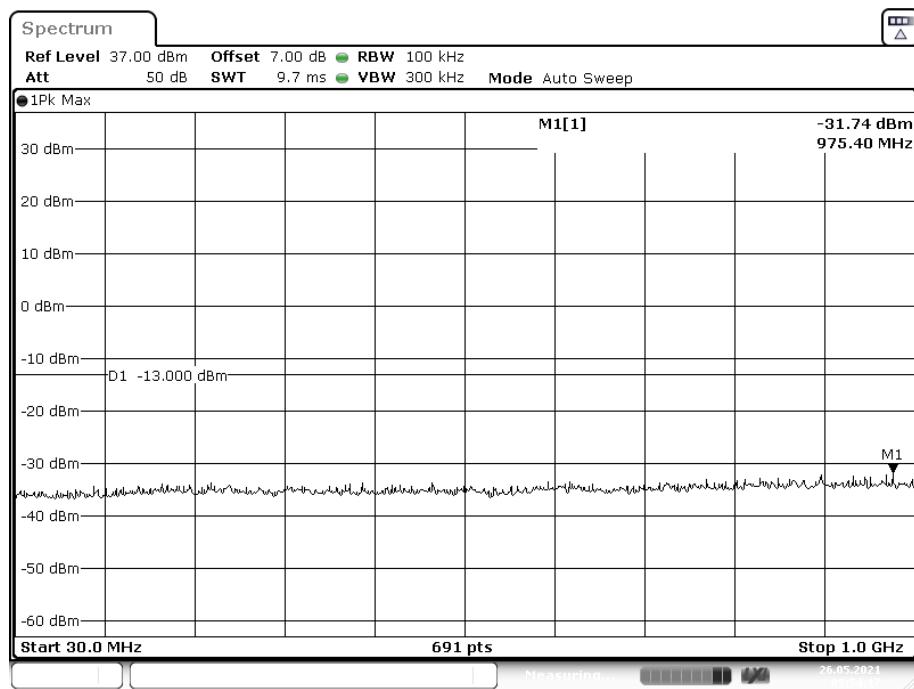
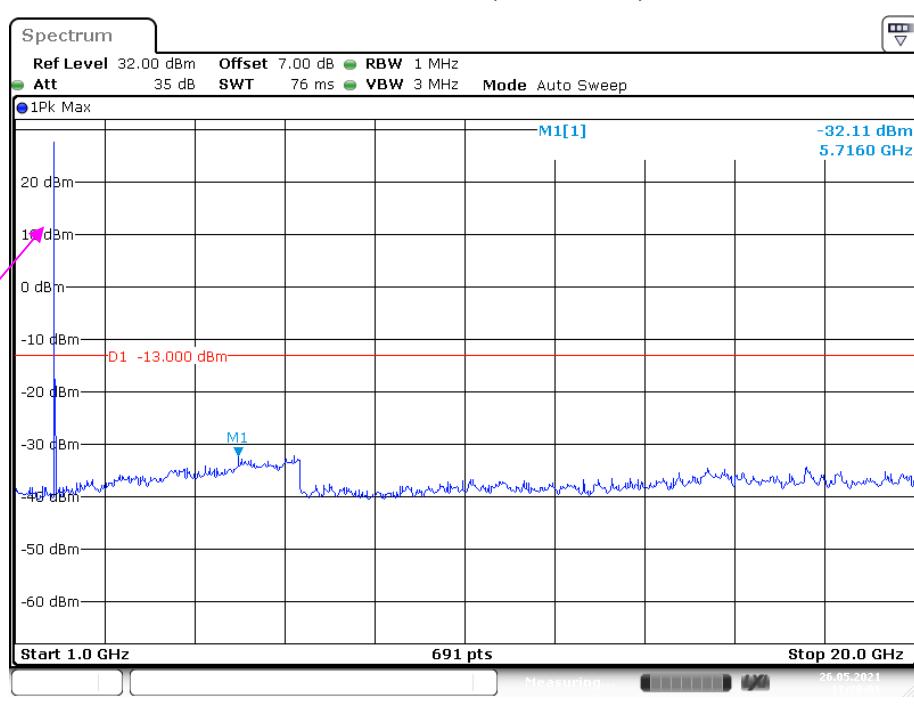
Fundamental test

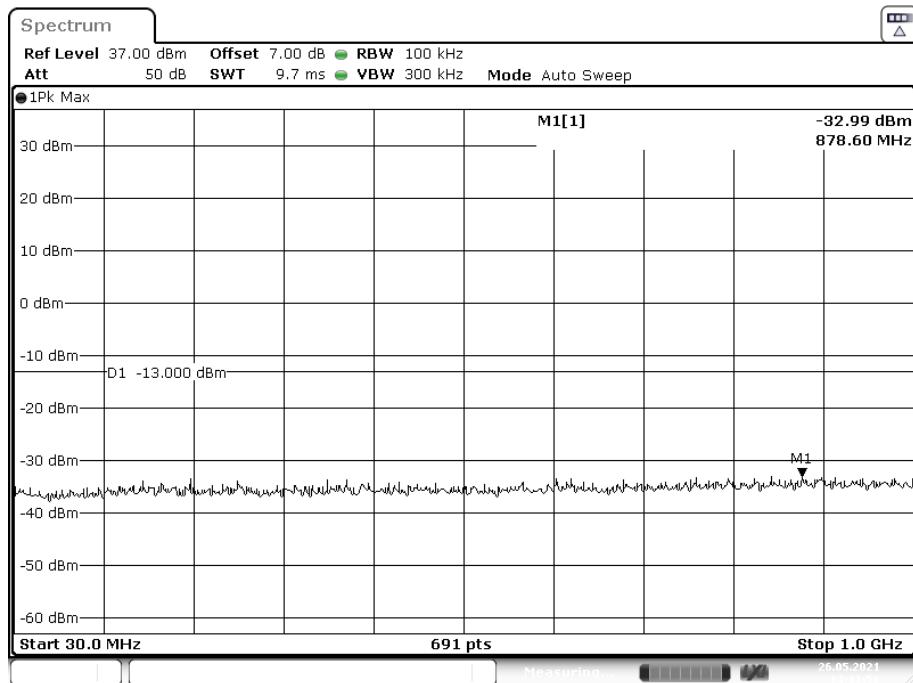
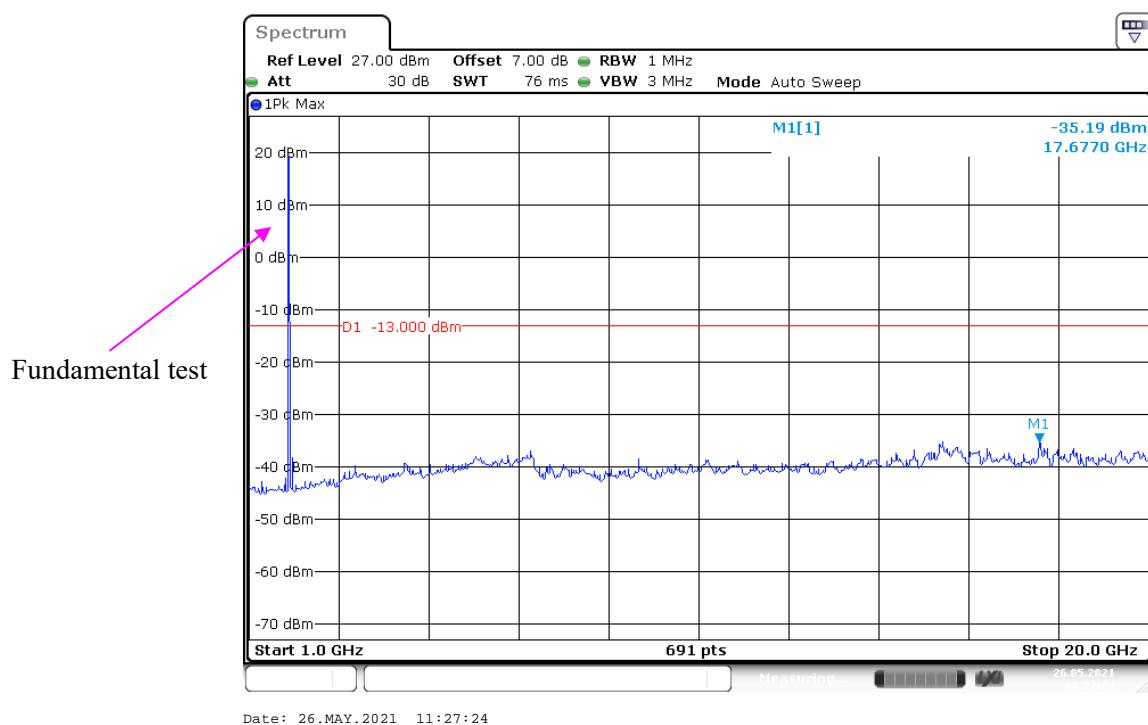
1 GHz – 10 GHz (GSM Mode)


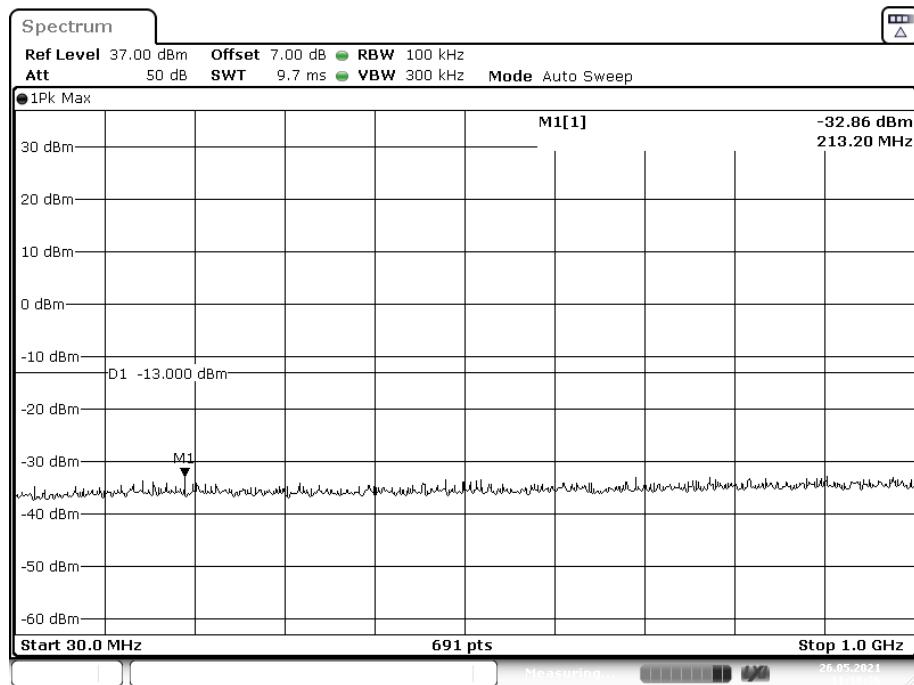
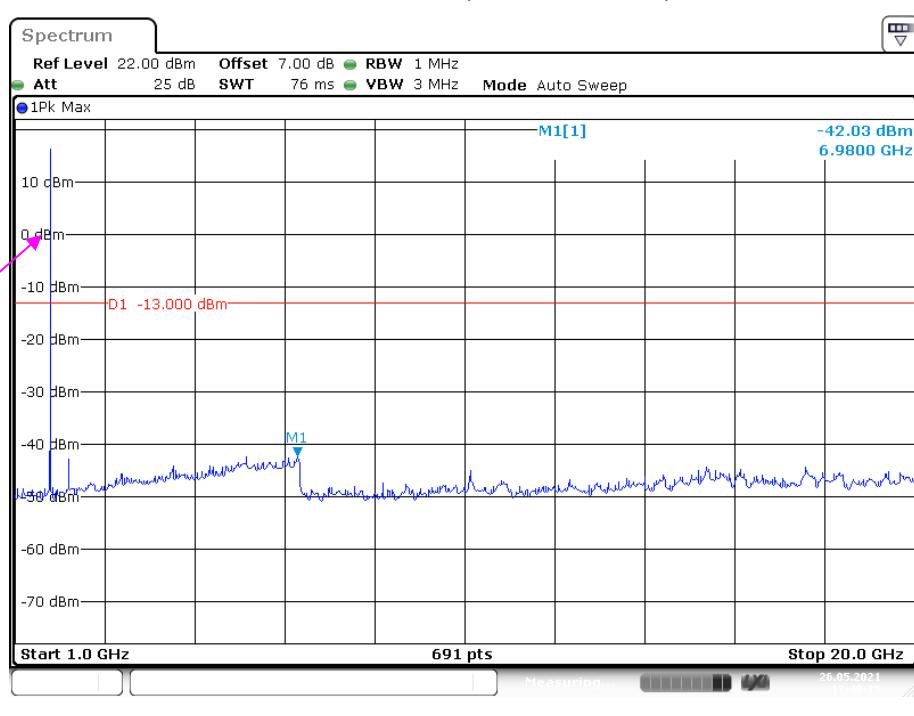
30 MHz – 1 GHz (WCDMA Mode)

Fundamental test

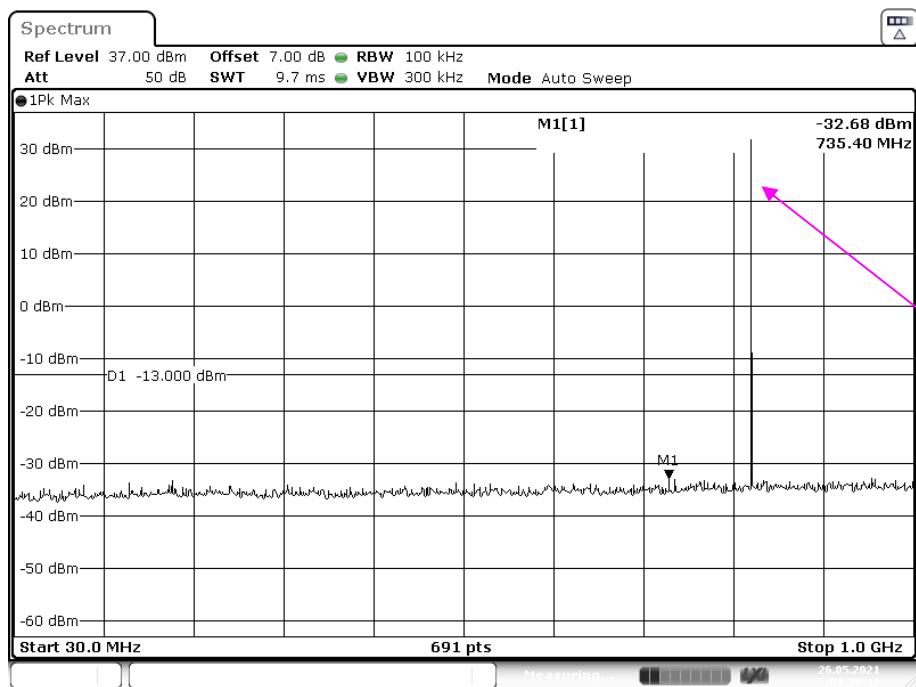
1 GHz – 10 GHz (WCDMA Mode)

PCS Band (Part 24E)**30 MHz – 1 GHz (GSM Mode)****1 GHz – 20 GHz (GSM Mode)**

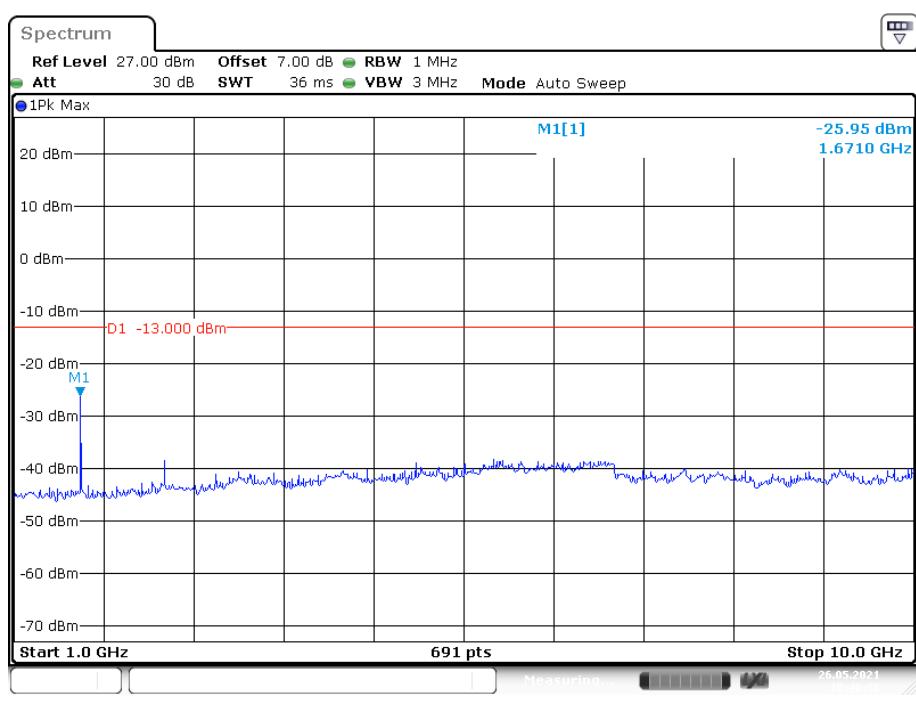
30 MHz – 1 GHz (WCDMA Mode)**1 GHz – 2 GHz (WCDMA Mode)**

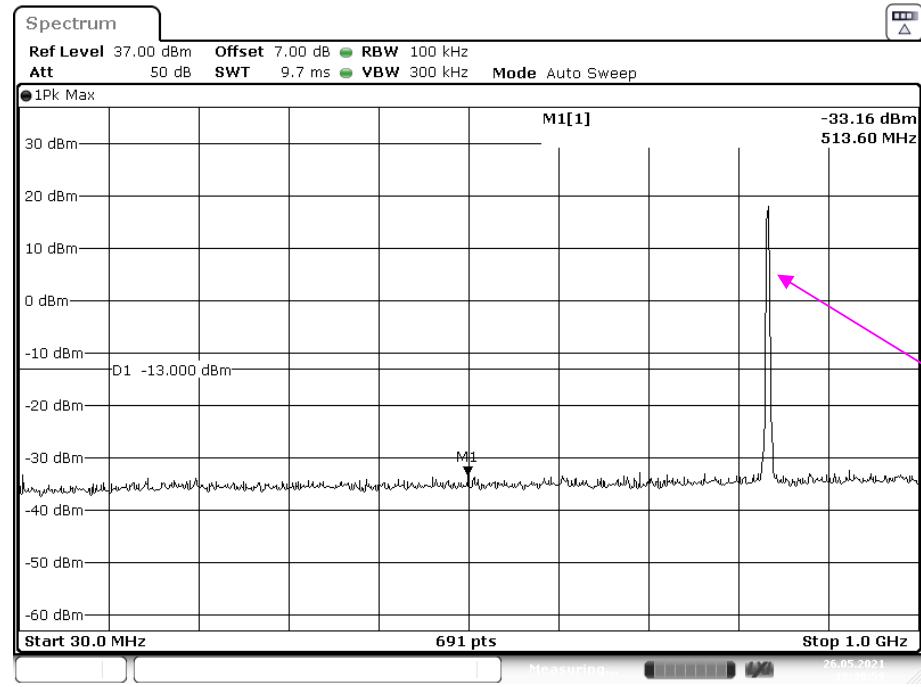
AWS Band (Part 27)**30 MHz – 1 GHz (WCDMA Mode)****1 GHz – 20 GHz (WCDMA Mode)**

Middle Channel
Cellular Band (Part 22H)

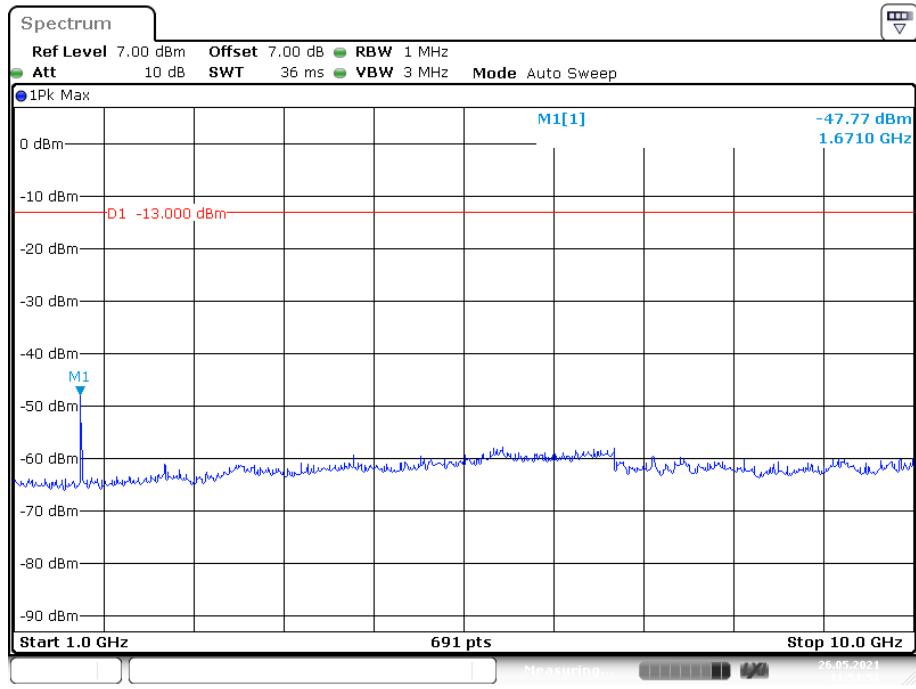
30 MHz – 1 GHz (GSM Mode)

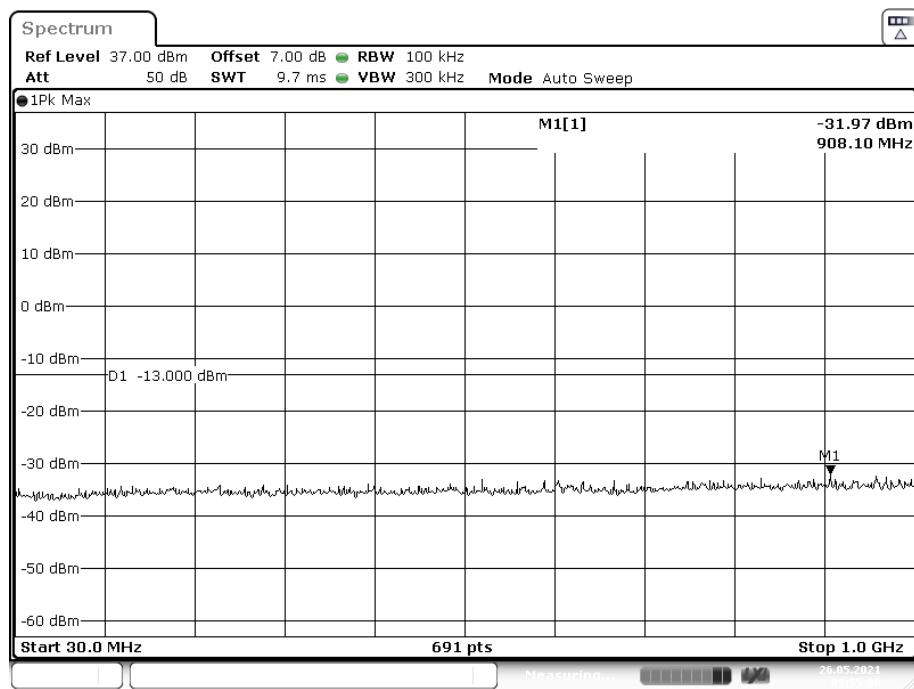
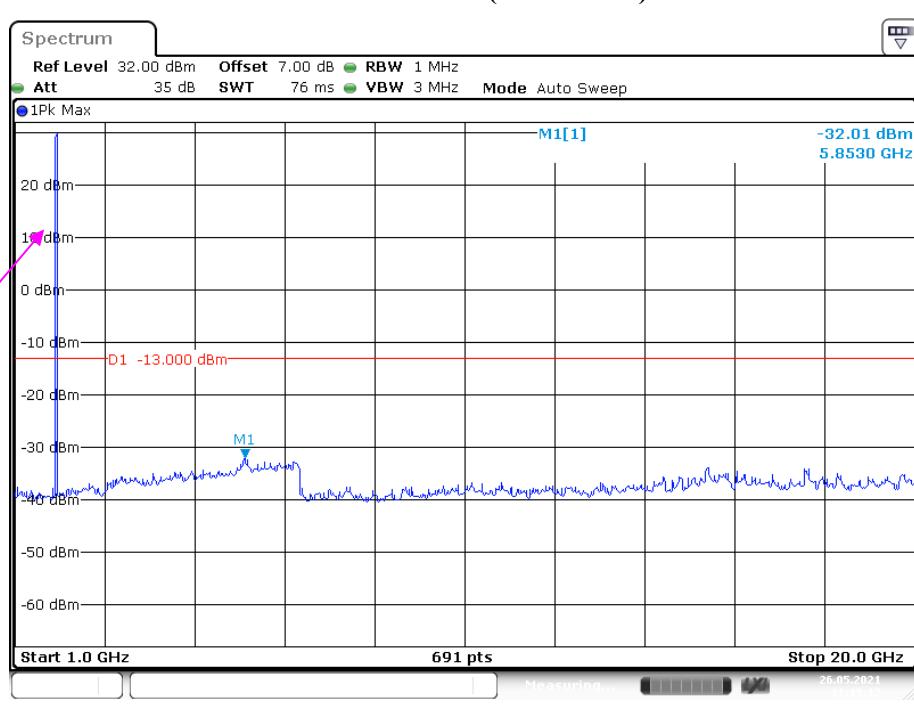
Fundamental test

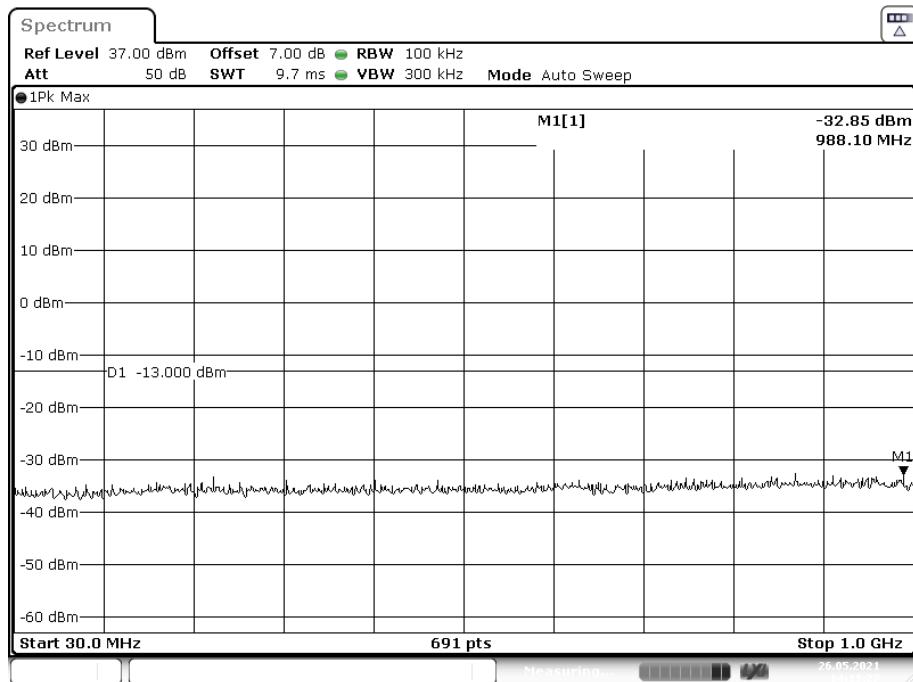
1 GHz – 10 GHz (GSM Mode)

30 MHz – 1 GHz (WCDMA Mode)

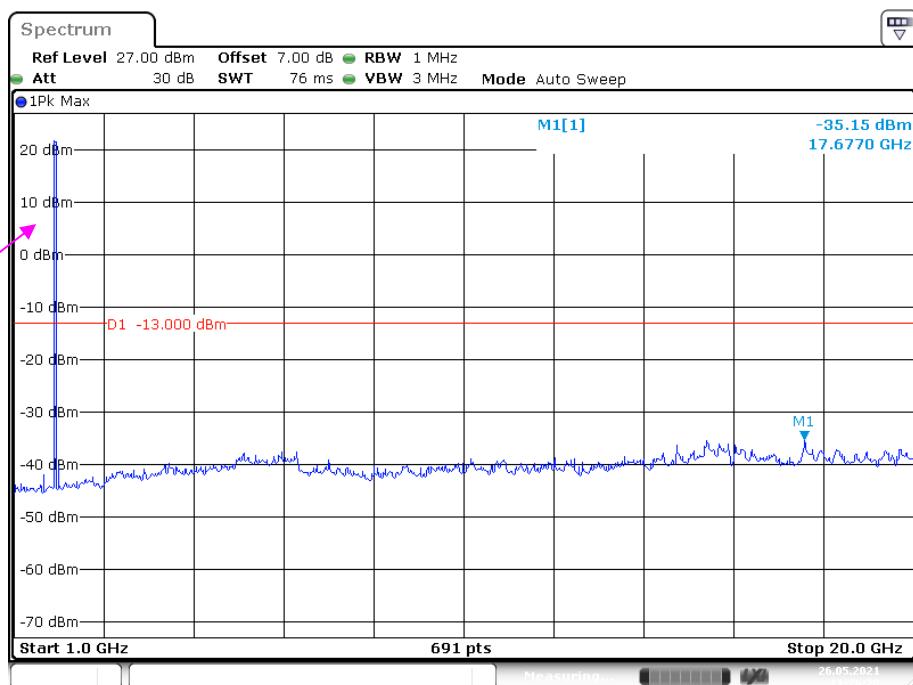
Fundamental test

1 GHz – 10 GHz (WCDMA Mode)

PCS Band (Part 24E)**30 MHz – 1 GHz (GSM Mode)****1 GHz – 20 GHz (GSM Mode)**

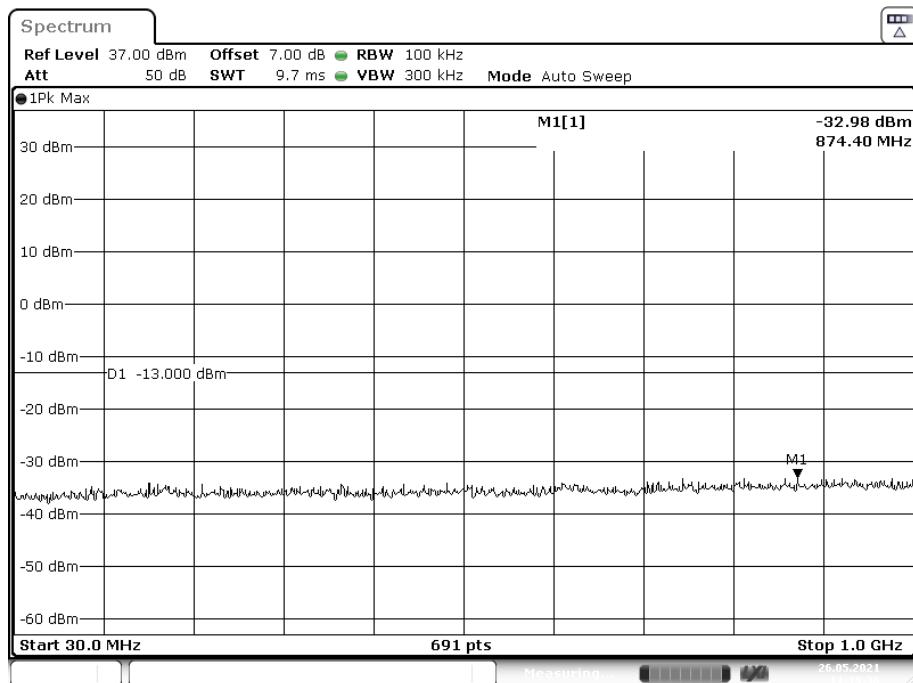
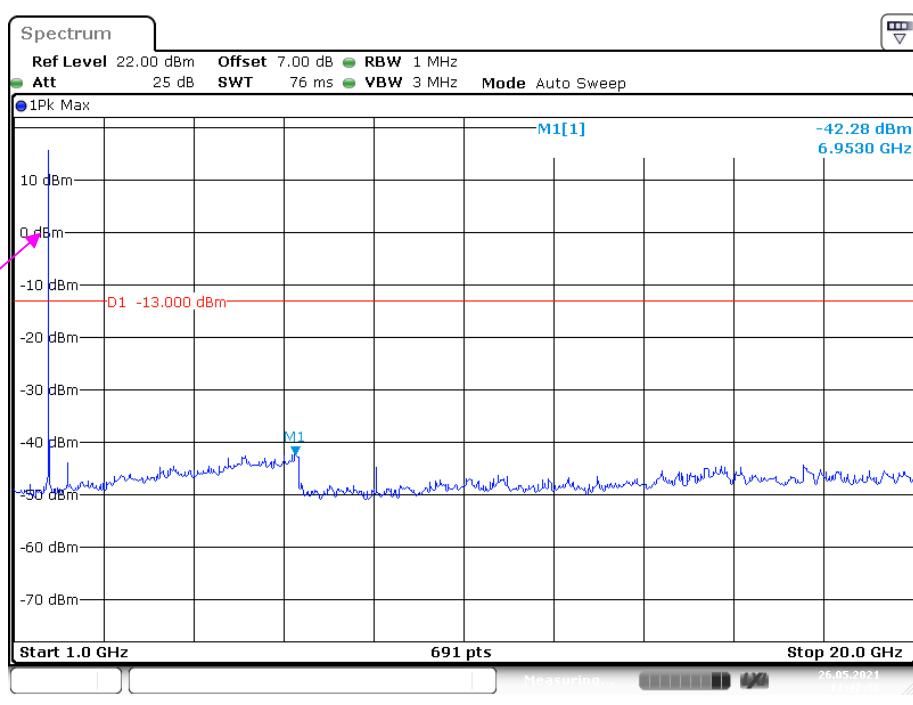
30 MHz – 1 GHz (WCDMA Mode)

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1 GHz – 30 GHz (WCDMA Mode)

Fundamental test

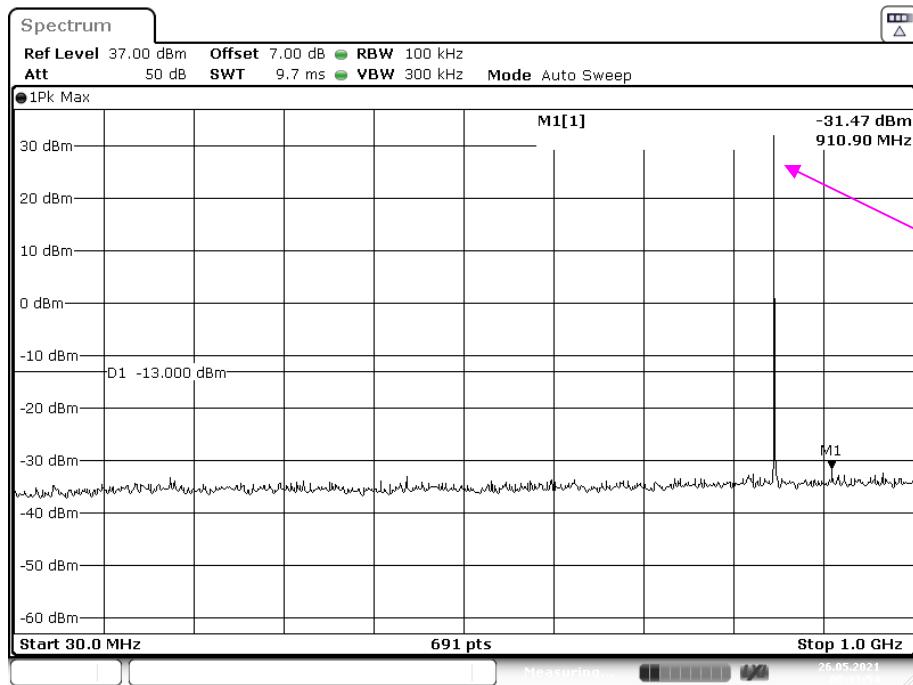
Date: 26.MAY.2021 11:26:20

AWS Band (Part 27)**30 MHz – 1 GHz (WCDMA Mode)****1 GHz – 20 GHz (WCDMA Mode)**

Fundamental test

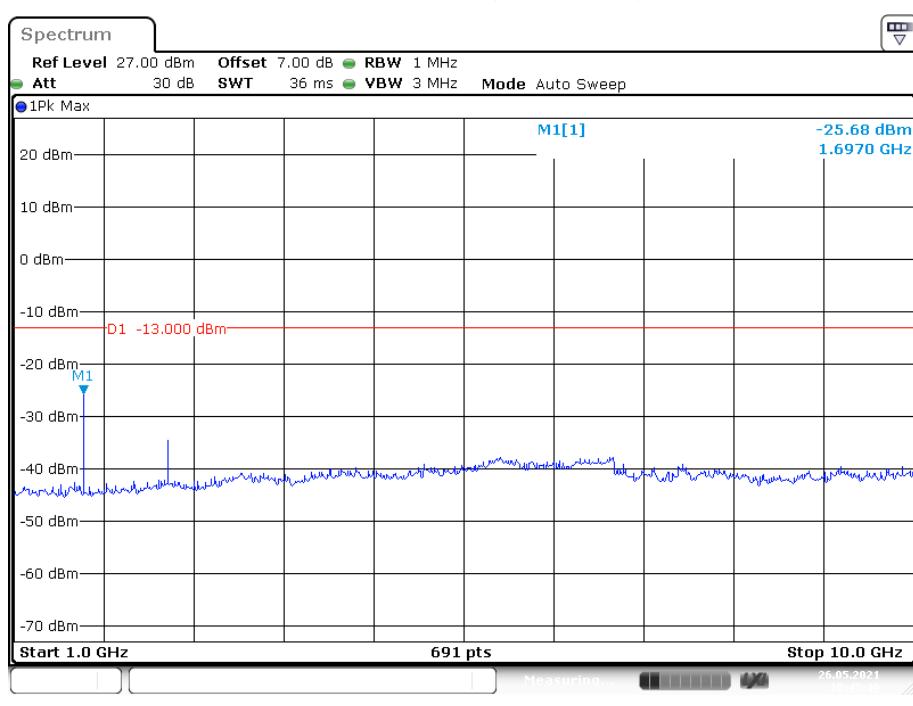
**High Channel
Cellular Band (Part 22H)**

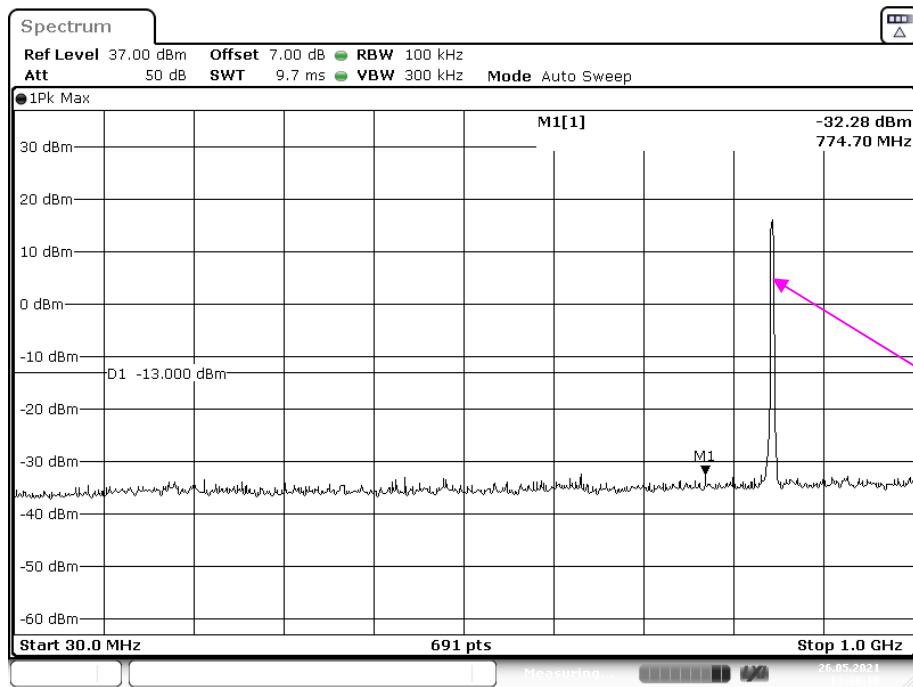
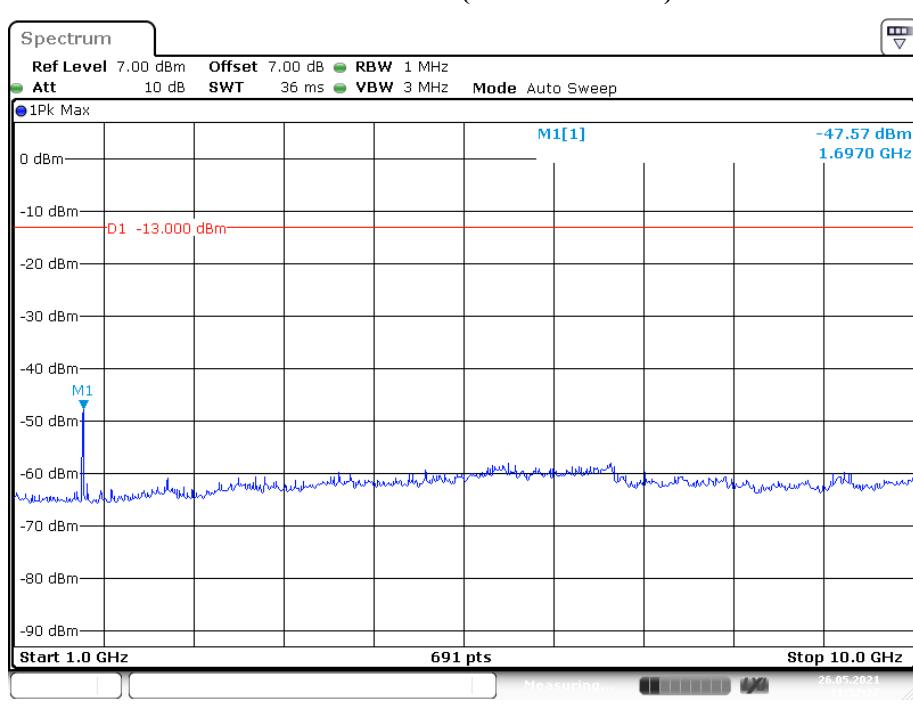
30 MHz – 1 GHz (GSM Mode)

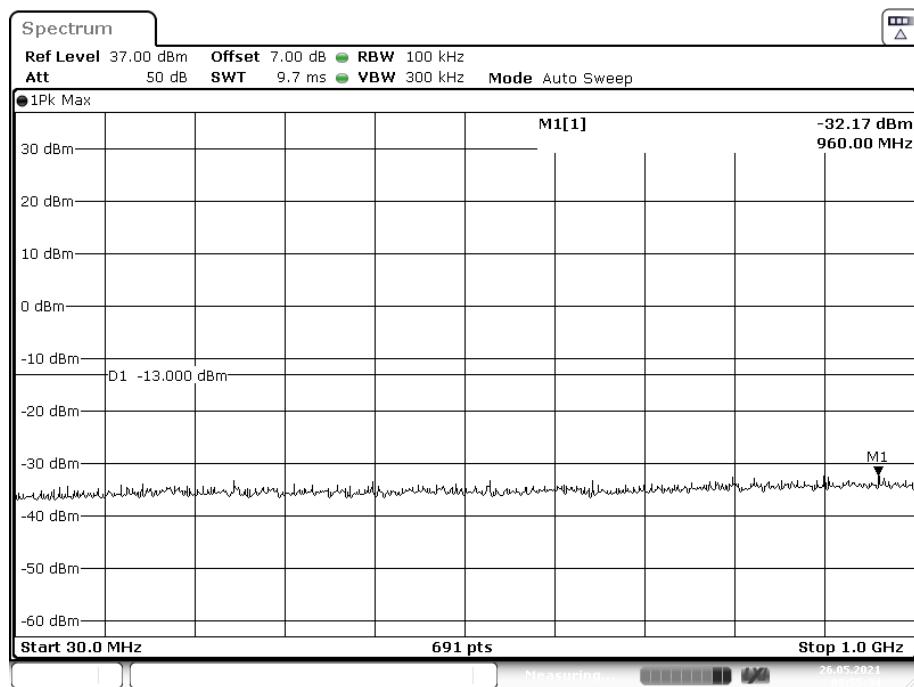
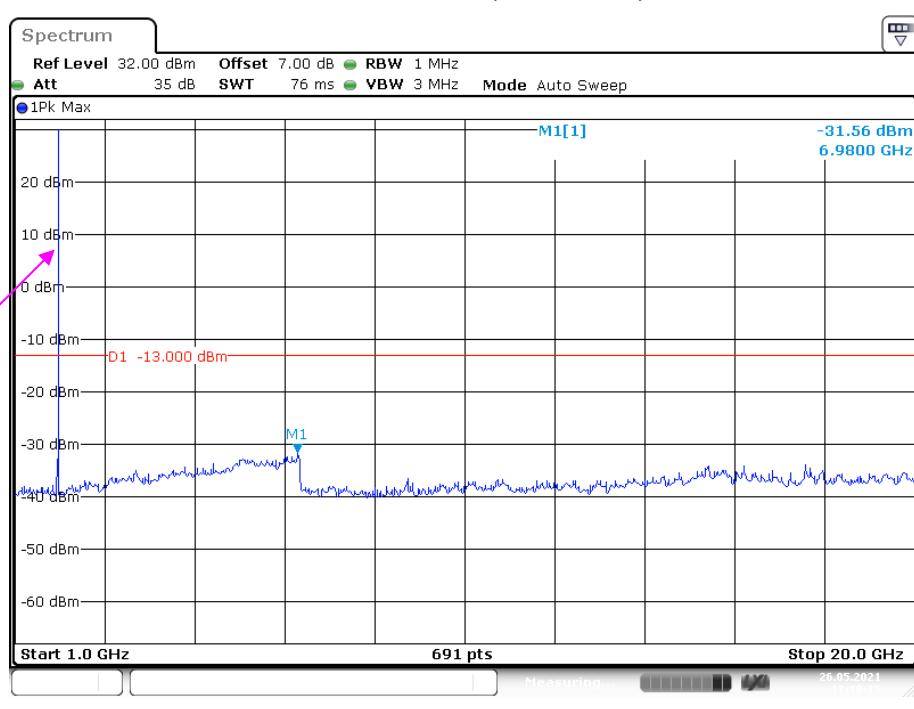


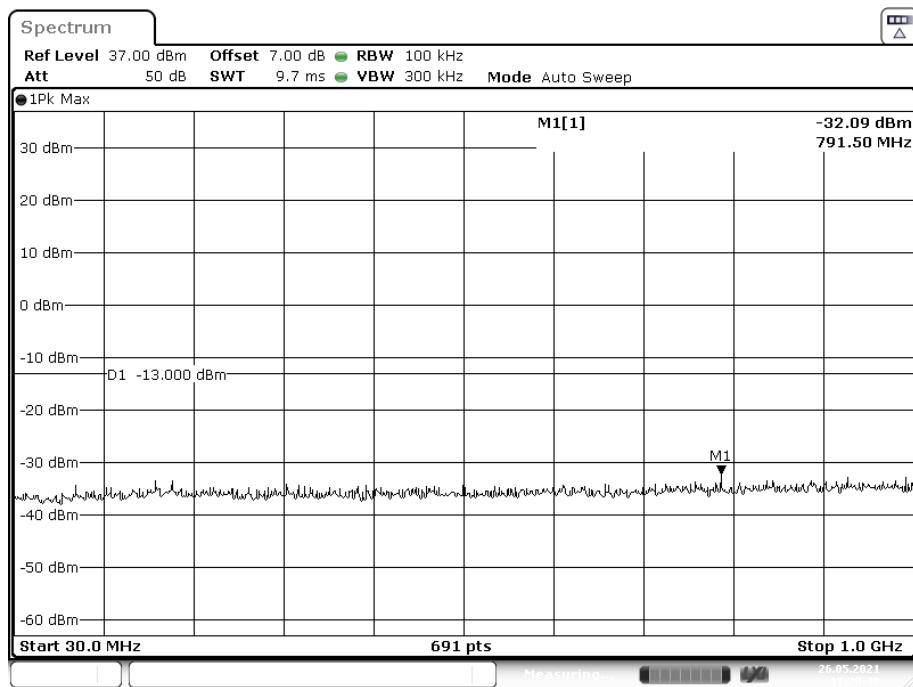
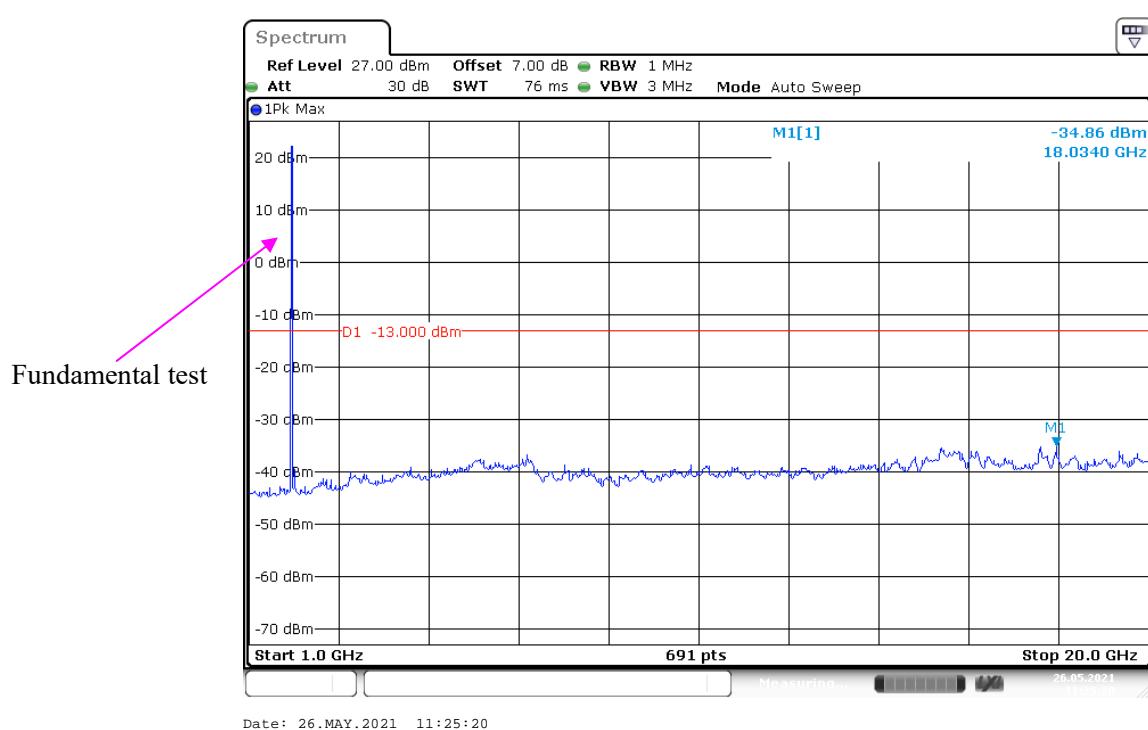
Fundamental test

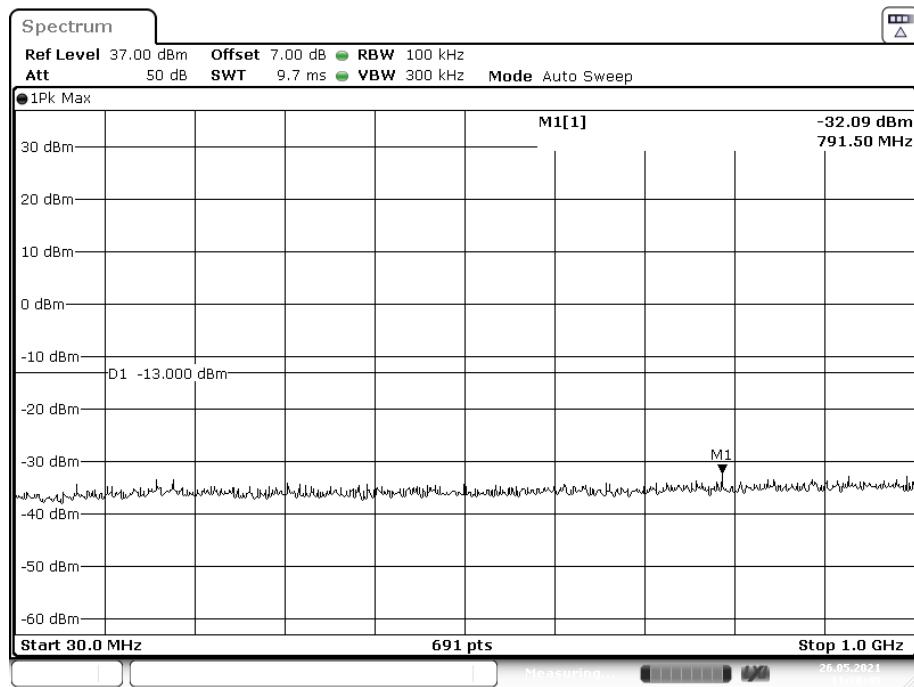
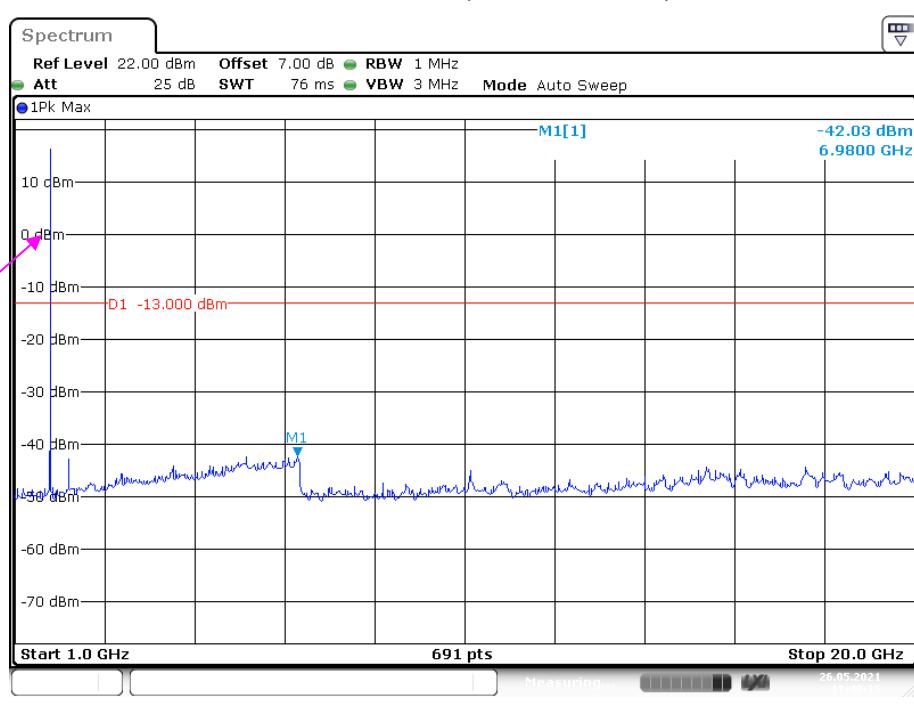
1 GHz – 10 GHz (GSM Mode)



30 MHz – 1 GHz (WCDMA Mode)**1 GHz – 10 GHz (WCDMA Mode)**

PCS Band (Part 24E)**30 MHz – 1 GHz (GSM Mode)****1 GHz – 20 GHz (GSM Mode)**

30 MHz – 1 GHz (WCDMA Mode)**1 GHz – 20 GHz (WCDMA Mode)**

AWS Band (Part 27)**30 MHz – 1 GHz (WCDMA Mode)****1 GHz – 20 GHz (WCDMA Mode)**

FCC § 2.1053; § 22.917 (a);§ 24.238 (a); §27.53 - SPURIOUS RADIATED EMISSIONS**Applicable Standard**

FCC § 2.1053, §22.917(a) and § 24.238(a) and § 27.53

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the receiving antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Test Data**Environmental Conditions**

Temperature:	24~25.8 °C
Relative Humidity:	51~52 %
ATM Pressure:	101.0 ~101.2kPa

The testing was performed by Zero Yan on 2021-05-24 for below 1GHz and Hanic Pan on 2021-05-27 for above 1GHz.

EUT operation mode: Transmitting

Cellular Band (Part 22H)

Frequency (MHz)	Receiver Reading (dB μ V)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	FCC Part 22H				
			Height (m)	Polar (H/V)	Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi)		Limit (dBm)	Margin (dB)			
30MHz-10GHz													
GSM Mode, Low channel													
955.9	30.58	327	1.9	H	-65.9	1.36	0.0	-67.26	-13	54.26			
955.9	31.59	25	1.8	V	-62.5	1.36	0.0	-63.86	-13	50.86			
1648.40	53.12	157	2.0	H	-55.0	1.40	8.70	-47.70	-13	34.70			
1648.40	49.86	190	1.3	V	-58.0	1.40	8.70	-50.70	-13	37.70			
2472.60	50.52	333	1.6	H	-52.8	2.60	10.20	-45.20	-13	32.20			
2472.60	50.43	312	1.7	V	-52.3	2.60	10.20	-44.70	-13	31.70			
3296.80	43.45	306	2.1	H	-57.4	1.50	11.70	-47.20	-13	34.20			
3296.80	44.86	95	1.9	V	-56.1	1.50	11.70	-45.90	-13	32.90			
GSM Mode, Middle channel													
960.1	30.27	191	2.2	H	-66.2	1.36	0.0	-67.56	-13	54.56			
960.1	31.66	115	1.8	V	-62.4	1.36	0.0	-63.76	-13	50.76			
1673.20	53.30	176	2.0	H	-53.0	1.30	8.90	-45.40	-13	32.40			
1673.20	50.29	193	1.8	V	-55.4	1.30	8.90	-47.80	-13	34.80			
2509.80	50.72	126	2.3	H	-52.6	2.60	10.20	-45.00	-13	32.00			
2509.80	50.86	42	1.2	V	-51.9	2.60	10.20	-44.30	-13	31.30			
3346.40	43.64	11	1.1	H	-57.3	1.50	11.70	-47.10	-13	34.10			
3346.40	45.41	87	2.1	V	-55.5	1.50	11.70	-45.30	-13	32.30			
GSM Mode, High channel													
958.8	30.33	335	1.1	H	-66.2	1.36	0.0	-67.56	-13	54.56			
958.8	31.62	132	1.3	V	-62.4	1.36	0.0	-63.76	-13	50.76			
1697.60	53.41	109	2.1	H	-52.9	1.30	8.90	-45.30	-13	32.30			
1697.60	50.67	21	2.5	V	-55.1	1.30	8.90	-47.50	-13	34.50			
2546.40	50.26	5	1.4	H	-53.1	2.60	10.20	-45.50	-13	32.50			
2546.40	50.12	11	2.0	V	-52.6	2.60	10.20	-45.00	-13	32.00			
3395.20	43.68	331	1.1	H	-57.6	1.40	11.80	-47.20	-13	34.20			
3395.20	45.21	192	2.5	V	-55.8	1.40	11.80	-45.40	-13	32.40			

Frequency (MHz)	Receiver Reading (dB μ V)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	FCC Part 22H				
			Height (m)	Polar (H/V)	Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi)		Limit (dBm)	Margin (dB)			
30MHz-10GHz													
WCDMA Mode, Low channel													
952.3	30.51	182	2.0	H	-66.0	1.36	0.0	-67.36	-13	54.36			
952.3	31.69	80	2.1	V	-62.4	1.36	0.0	-63.76	-13	50.76			
1652.80	42.97	42	1.6	H	-63.4	1.30	8.90	-55.80	-13	42.80			
1652.80	44.43	194	1.4	V	-61.3	1.30	8.90	-53.70	-13	40.70			
2479.20	44.29	71	1.1	H	-59.1	2.60	10.20	-51.50	-13	38.50			
2479.20	46.12	10	2.2	V	-56.6	2.60	10.20	-49.00	-13	36.00			
3305.60	43.33	106	2.0	H	-57.6	1.50	11.70	-47.40	-13	34.40			
3305.60	44.37	255	1.7	V	-56.6	1.50	11.70	-46.40	-13	33.40			
WCDMA Mode, Middle channel													
951.6	30.59	221	1.4	H	-65.9	1.36	0.0	-67.26	-13	54.26			
951.6	31.68	298	2.3	V	-62.4	1.36	0.0	-63.76	-13	50.76			
1673.20	43.23	6	2.4	H	-63.1	1.30	8.90	-55.50	-13	42.50			
1673.20	44.58	45	1.5	V	-61.2	1.30	8.90	-53.60	-13	40.60			
2509.80	44.32	323	1.2	H	-59.0	2.60	10.20	-51.40	-13	38.40			
2509.80	46.55	66	2.3	V	-56.2	2.60	10.20	-48.60	-13	35.60			
3346.40	43.54	313	1.5	H	-57.4	1.50	11.70	-47.20	-13	34.20			
3346.40	44.63	269	2.3	V	-56.3	1.50	11.70	-46.10	-13	33.10			
WCDMA Mode, High channel													
966.8	30.64	292	2.4	H	-65.9	1.36	0.0	-67.26	-13	54.26			
966.8	31.61	100	2.4	V	-62.4	1.36	0.0	-63.76	-13	50.76			
1693.20	43.52	98	2.5	H	-62.8	1.30	8.90	-55.20	-13	42.20			
1693.20	44.65	196	1.1	V	-61.1	1.30	8.90	-53.50	-13	40.50			
2539.80	44.28	89	1.9	H	-59.1	2.60	10.20	-51.50	-13	38.50			
2539.80	46.45	122	2.1	V	-56.3	2.60	10.20	-48.70	-13	35.70			
3386.40	43.66	222	1.9	H	-57.6	1.40	11.80	-47.20	-13	34.20			
3386.40	44.75	246	1.8	V	-56.3	1.40	11.80	-45.90	-13	32.90			

PCS Band (Part 24E)

Frequency (MHz)	Receiver Reading (dB μ V)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	FCC Part 24E				
			Height (m)	Polar (H/V)	Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi)		Limit (dBm)	Margin (dB)			
30MHz-20GHz													
GSM Mode, low channel													
962.5	30.39	131	1.1	H	-66.1	1.36	0.0	-67.46	-13	54.46			
962.5	31.67	90	1.7	V	-62.4	1.36	0.0	-63.76	-13	50.76			
3700.40	45.26	333	1.3	H	-56.5	1.60	11.90	-46.20	-13	33.20			
3700.40	44.35	34	1.2	V	-56.9	1.60	11.90	-46.60	-13	33.60			
GSM Mode, middle channel													
960.7	30.42	203	1.6	H	-66.1	1.36	0.0	-67.46	-13	54.46			
960.7	31.59	156	2.1	V	-62.5	1.36	0.0	-63.86	-13	50.86			
3760.00	45.14	212	1.8	H	-56.9	1.50	11.80	-46.60	-13	33.60			
3760.00	44.18	300	1.5	V	-57.4	1.50	11.80	-47.10	-13	34.10			
GSM Mode, high channel													
959.5	30.45	194	2.0	H	-66.1	1.36	0.0	-67.46	-13	54.46			
959.5	31.63	296	2.0	V	-62.4	1.36	0.0	-63.76	-13	50.76			
3819.60	45.33	312	1.3	H	-56.7	1.50	11.80	-46.40	-13	33.40			
3819.60	44.45	185	1.3	V	-57.1	1.50	11.80	-46.80	-13	33.80			
WCDMA Mode, low channel													
956.8	30.67	298	1.9	H	-65.8	1.36	0.0	-67.16	-13	54.16			
956.8	31.72	33	1.6	V	-62.3	1.36	0.0	-63.66	-13	50.66			
3704.80	52.65	16	2.3	H	-49.2	1.60	11.90	-38.90	-13	25.90			
3704.80	51.86	114	2.4	V	-49.4	1.60	11.90	-39.10	-13	26.10			
WCDMA Mode, middle channel													
954.7	30.62	162	1.3	H	-65.9	1.36	0.0	-67.26	-13	54.26			
954.7	31.75	314	2.3	V	-62.3	1.36	0.0	-63.66	-13	50.66			
3760.00	52.46	123	2.0	H	-49.6	1.50	11.80	-39.30	-13	26.30			
3760.00	51.77	89	2.3	V	-49.8	1.50	11.80	-39.50	-13	26.50			
WCDMA Mode, high channel													
961.2	30.58	115	2.4	H	-65.9	1.36	0.0	-67.26	-13	54.26			
961.2	31.78	98	1.9	V	-62.3	1.36	0.0	-63.66	-13	50.66			
3815.20	51.78	16	1.8	H	-50.3	1.50	11.80	-40.00	-13	27.00			
3815.20	51.04	209	1.1	V	-50.5	1.50	11.80	-40.20	-13	27.20			

30 MHz ~ 20 GHz:
AWS Band (Part 27)

Frequency (MHz)	Receiver Reading (dB μ V)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	FCC Part 27				
			Height (m)	Polar (H/V)	Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi)		Limit (dBm)	Margin (dB)			
30MHz-20GHz													
WCDMA Mode, Low channel													
952.3	30.55	241	1.2	H	-66.0	1.36	0.0	-67.36	-13	54.36			
952.3	31.76	251	2.5	V	-62.3	1.36	0.0	-63.66	-13	50.66			
3424.80	46.28	83	2.0	H	-54.5	1.40	11.80	-44.10	-13	31.10			
3424.80	44.82	244	2.4	V	-55.8	1.40	11.80	-45.40	-13	32.40			
WCDMA Mode, middle channel													
951.6	30.52	250	1.6	H	-66.0	1.36	0.0	-67.36	-13	54.36			
951.6	31.62	193	2.1	V	-62.4	1.36	0.0	-63.76	-13	50.76			
3465.20	47.25	128	2.4	H	-53.5	1.50	12.00	-43.00	-13	30.00			
3465.20	45.23	26	1.4	V	-56.3	1.50	12.00	-45.80	-13	32.80			
WCDMA Mode, high channel													
964.8	30.54	351	1.7	H	-66.0	1.36	0.0	-67.36	-13	54.36			
964.8	31.66	163	1.3	V	-62.4	1.36	0.0	-63.76	-13	50.76			
3505.20	45.78	308	2.1	H	-55.0	1.50	12.00	-44.50	-13	31.50			
3505.20	45.12	338	2.5	V	-56.4	1.50	12.00	-45.90	-13	32.90			

Note:

- 1) Absolute Level = Substituted Level - Cable loss + Antenna Gain
- 2) Margin = Limit- Absolute Level

FCC § 22.917 (a);§ 24.238 (a); §27.53 (h) - BAND EDGES

Applicable Standard

According to § 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

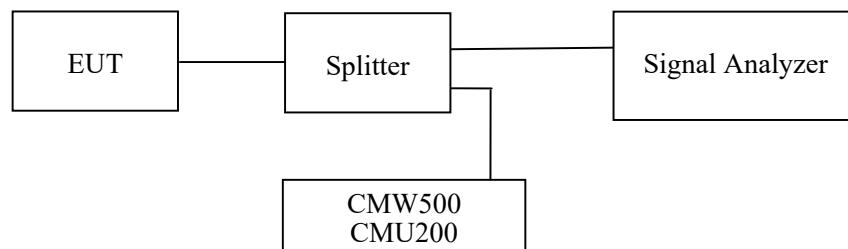
According to §24.238(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to FCC §27.53 (h), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency



Test Data

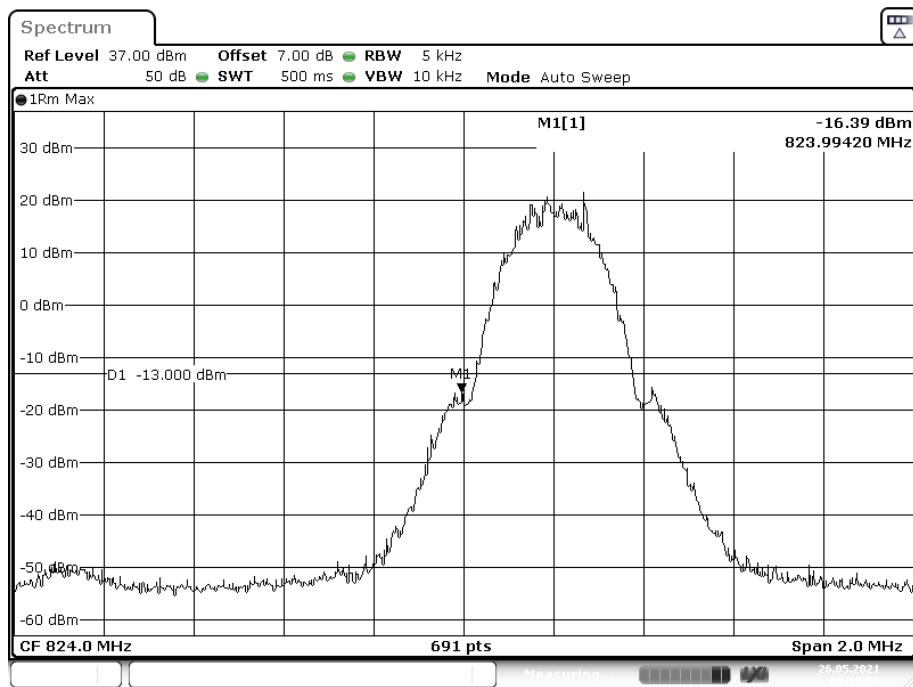
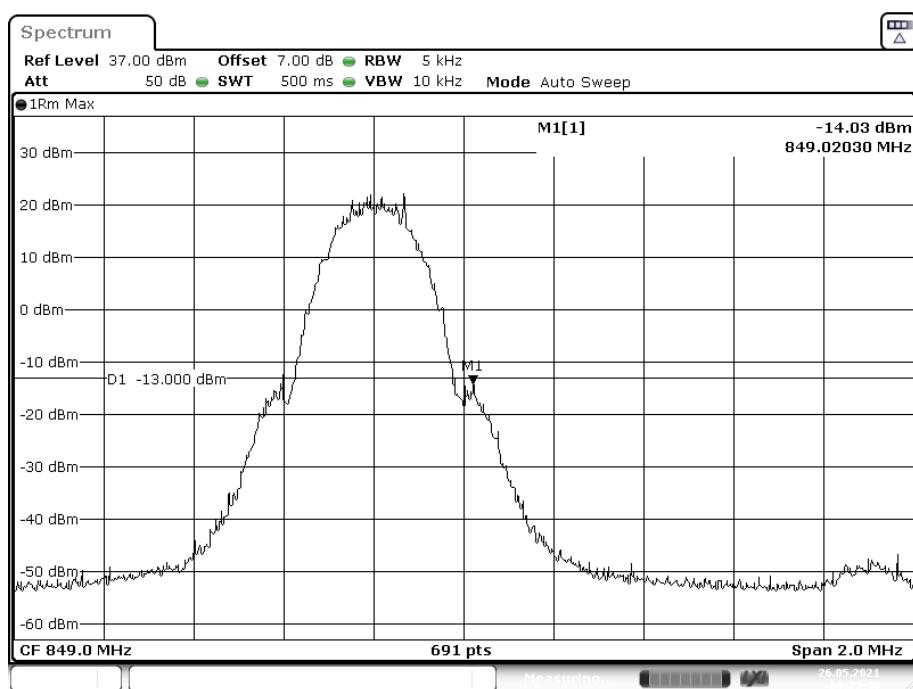
Environmental Conditions

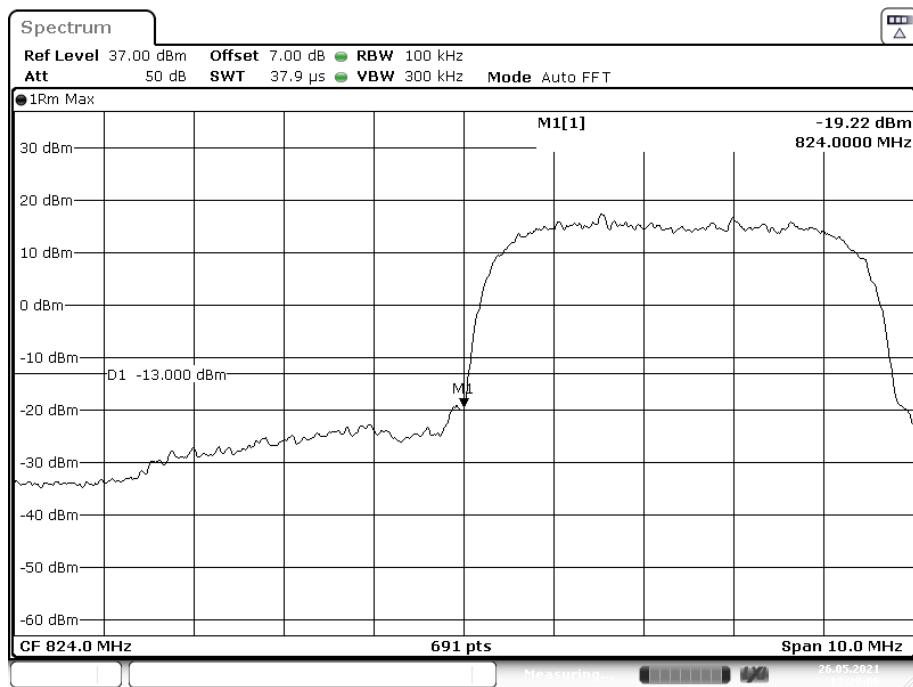
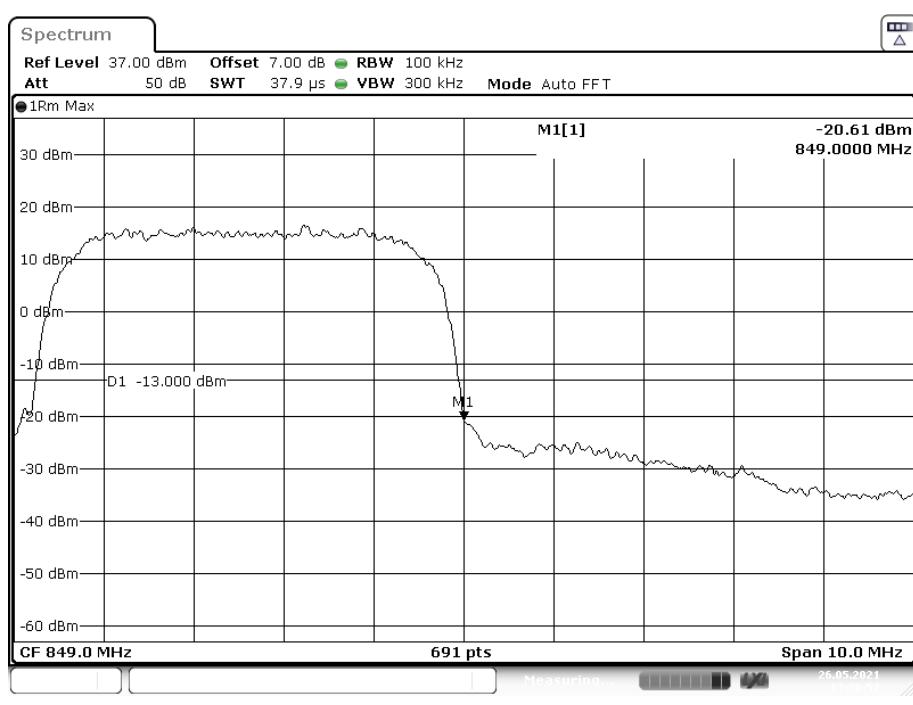
Temperature:	24 °C
Relative Humidity:	52%
ATM Pressure:	101.0 kPa

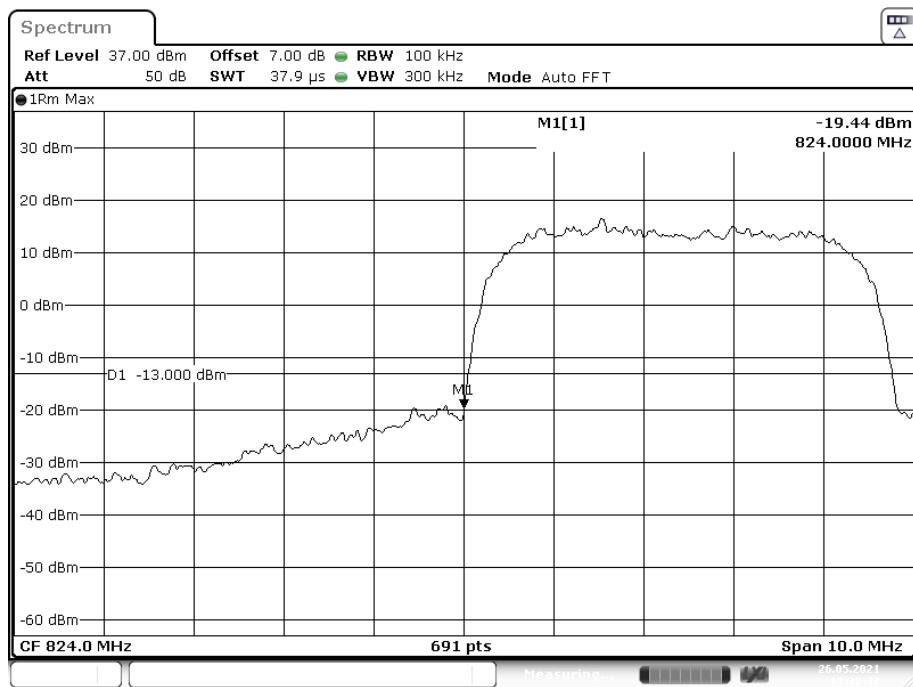
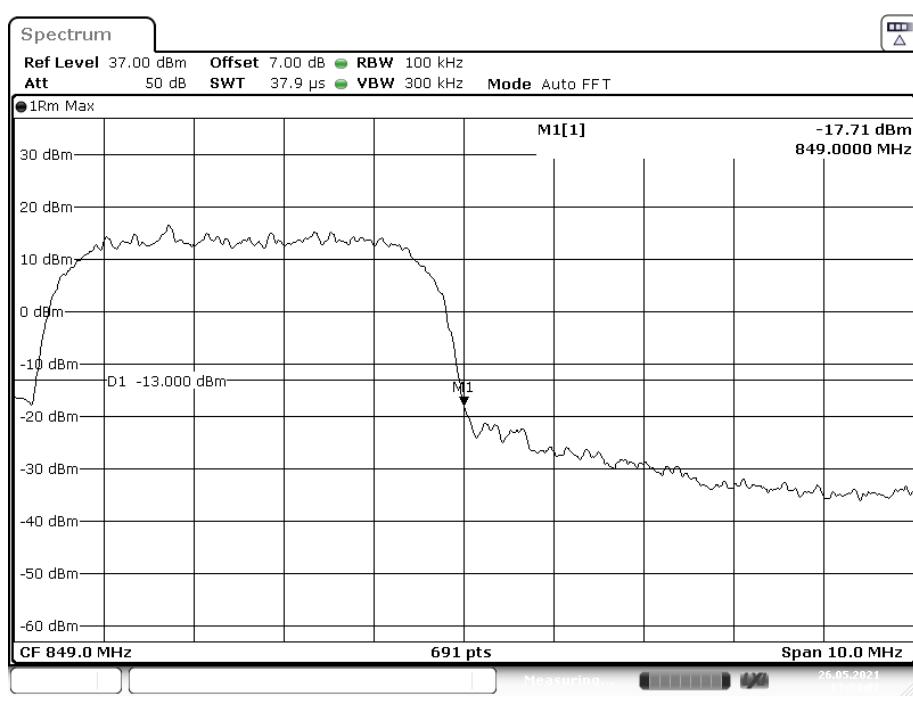
The testing was performed by Zero Yan on 2021-05-26.

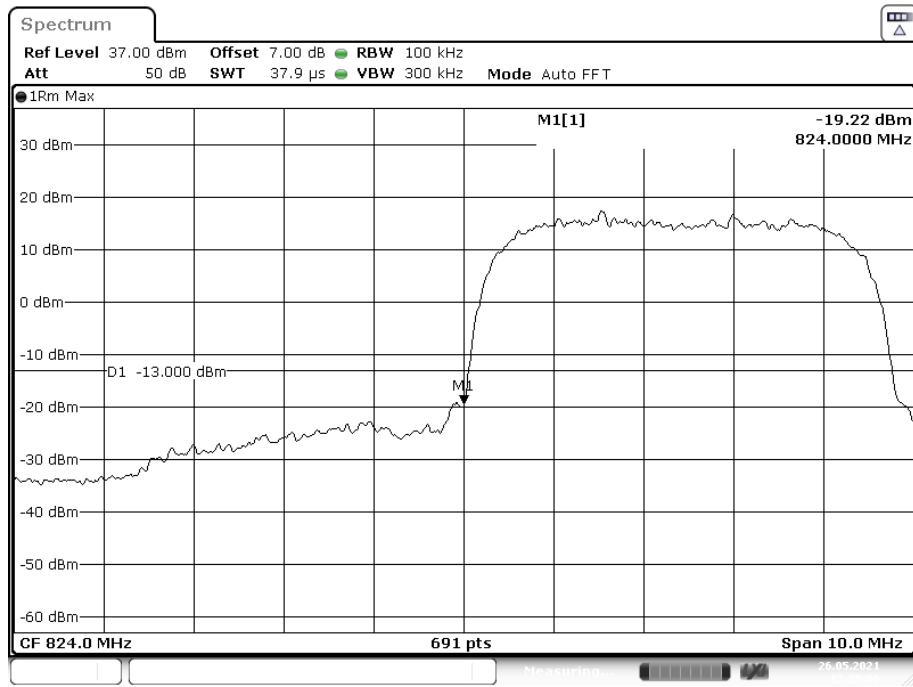
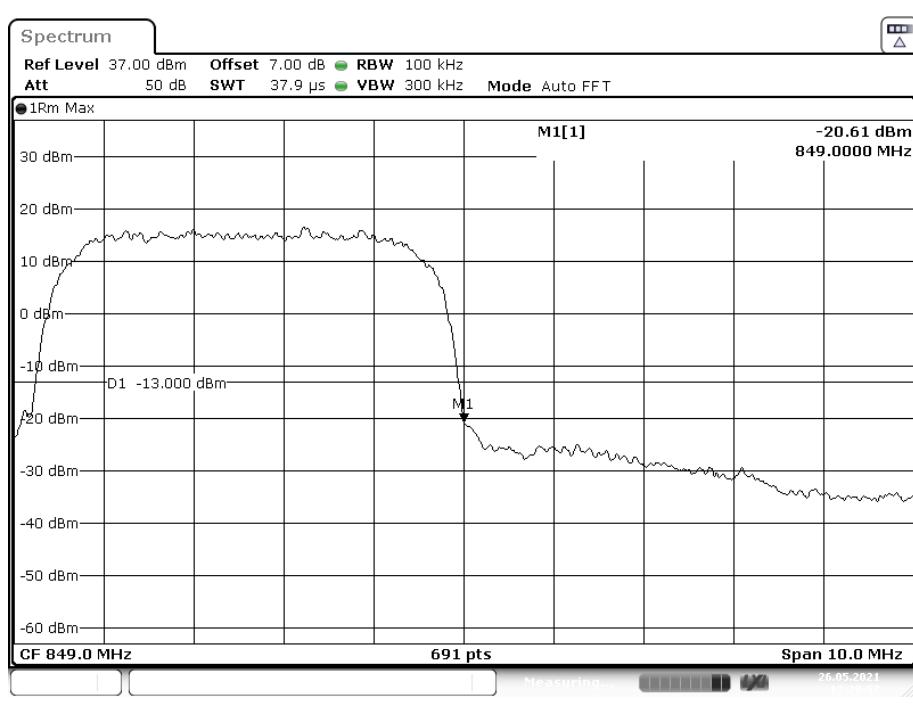
EUT operation mode: Transmitting

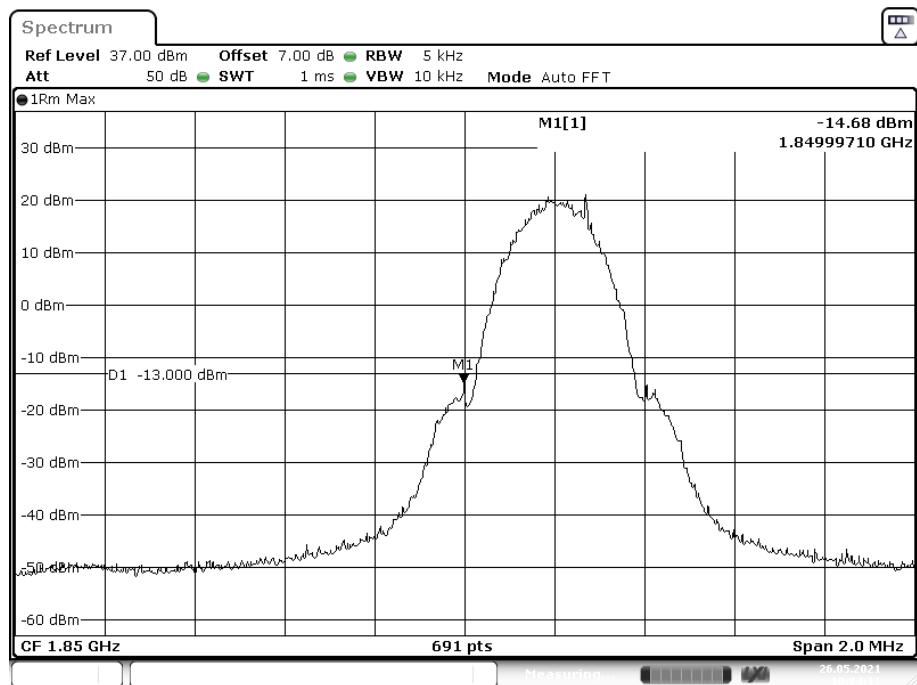
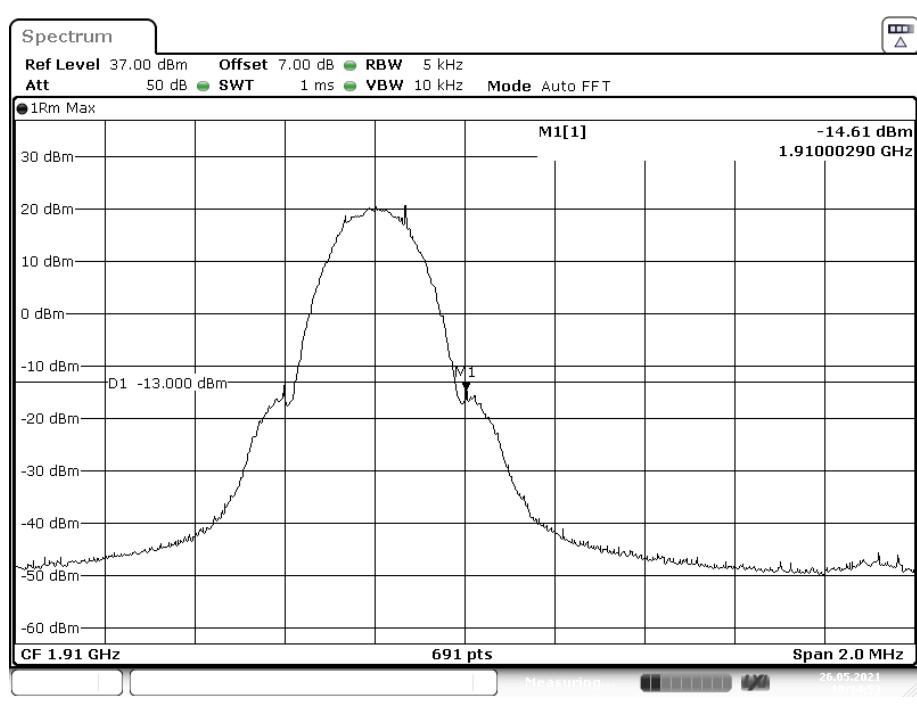
Test Result: Compliance. Please refer to the following plots.

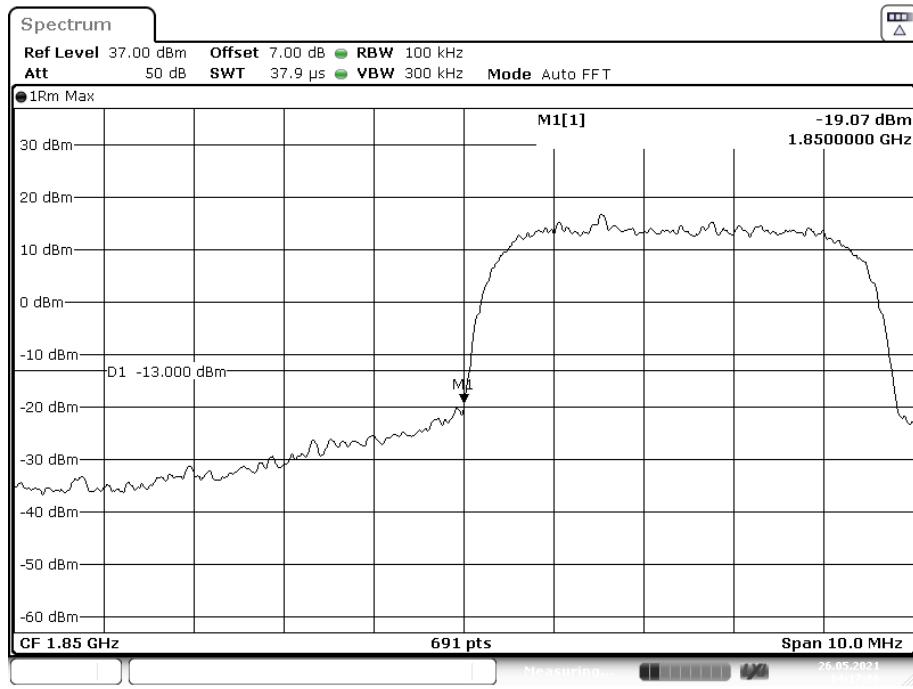
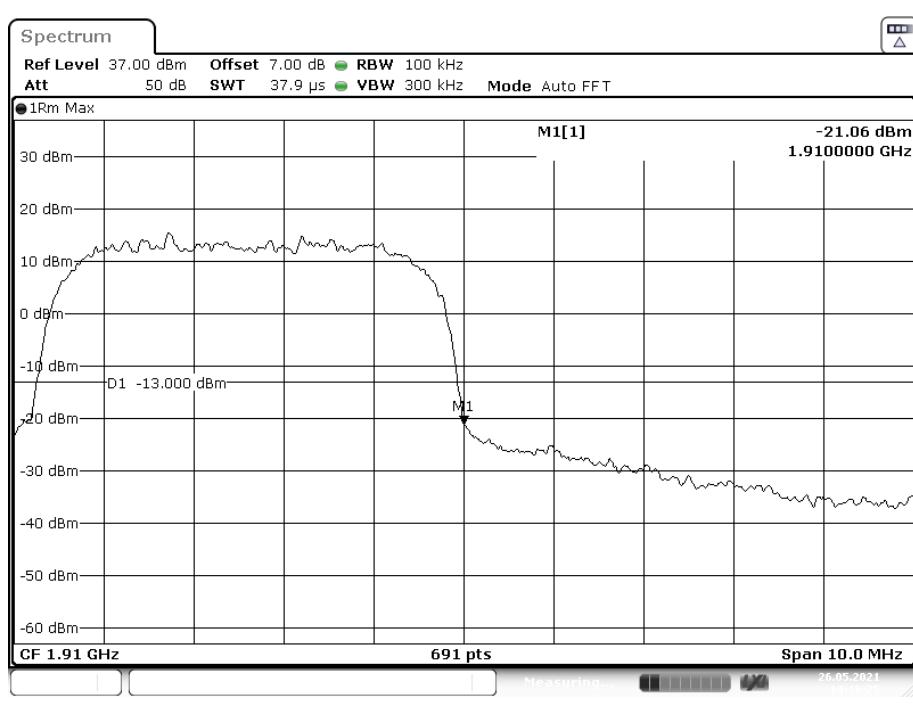
Cellular Band, Left Band Edge for GSM (GMSK) Mode**Cellular Band, Right Band Edge for GSM (GMSK) Mode**

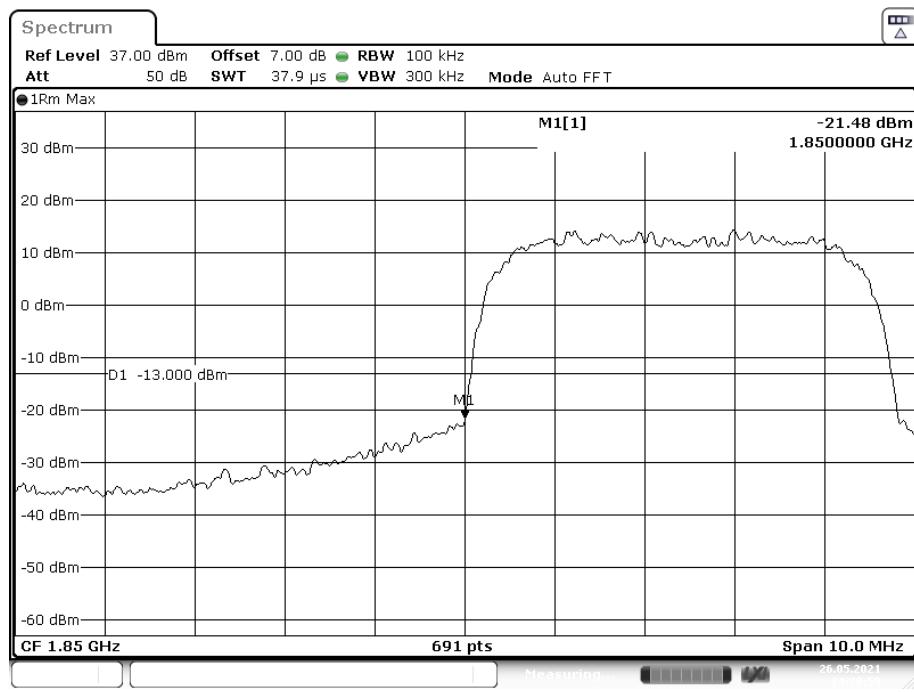
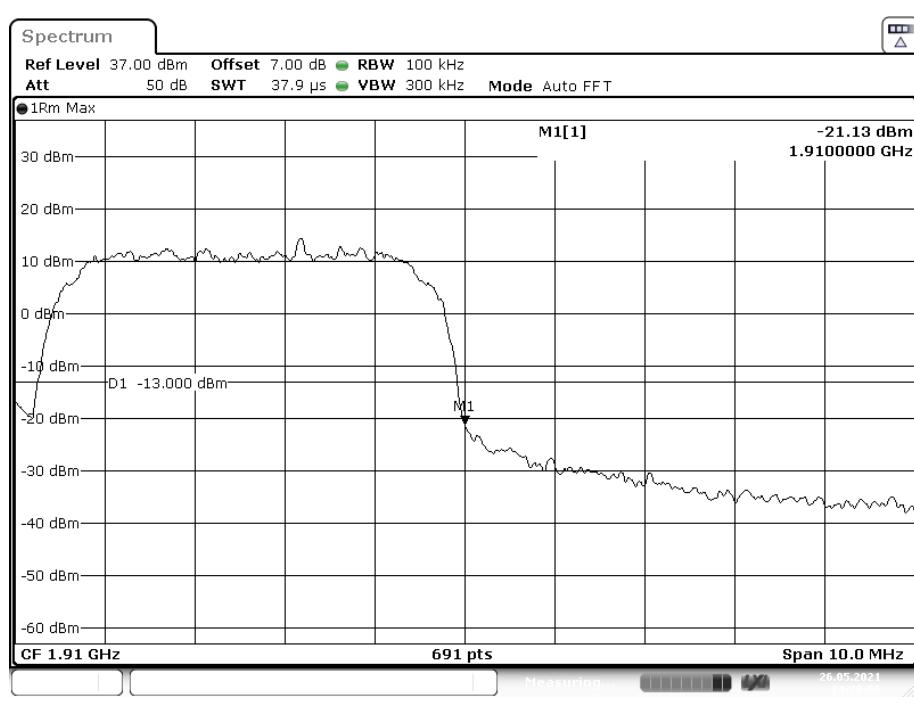
Cellular Band, Left Band Edge for WCDMA (BPSK) Mode**Cellular Band, Right Band Edge for WCDMA (BPSK) Mode**

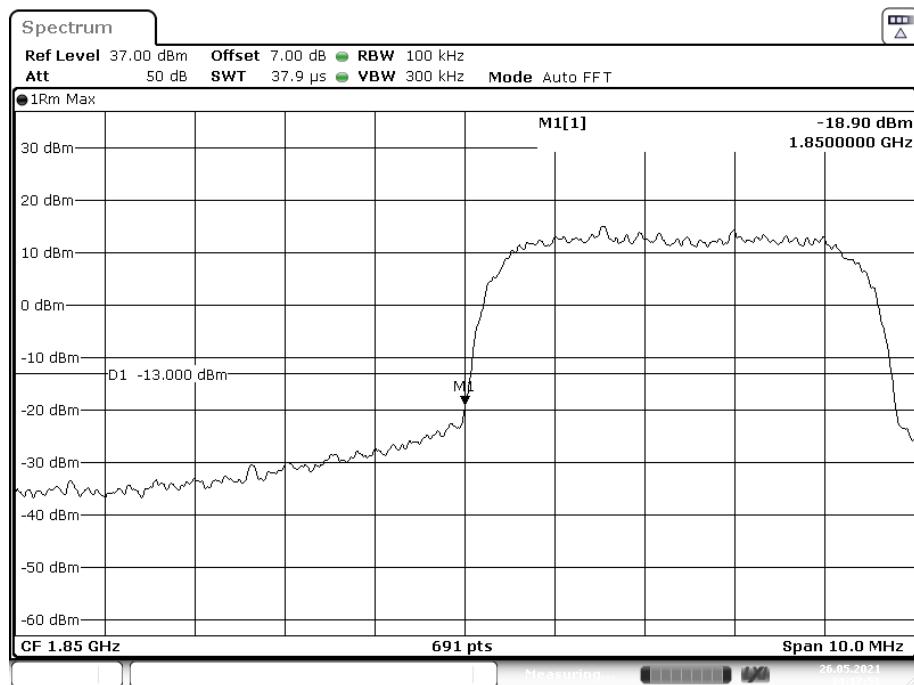
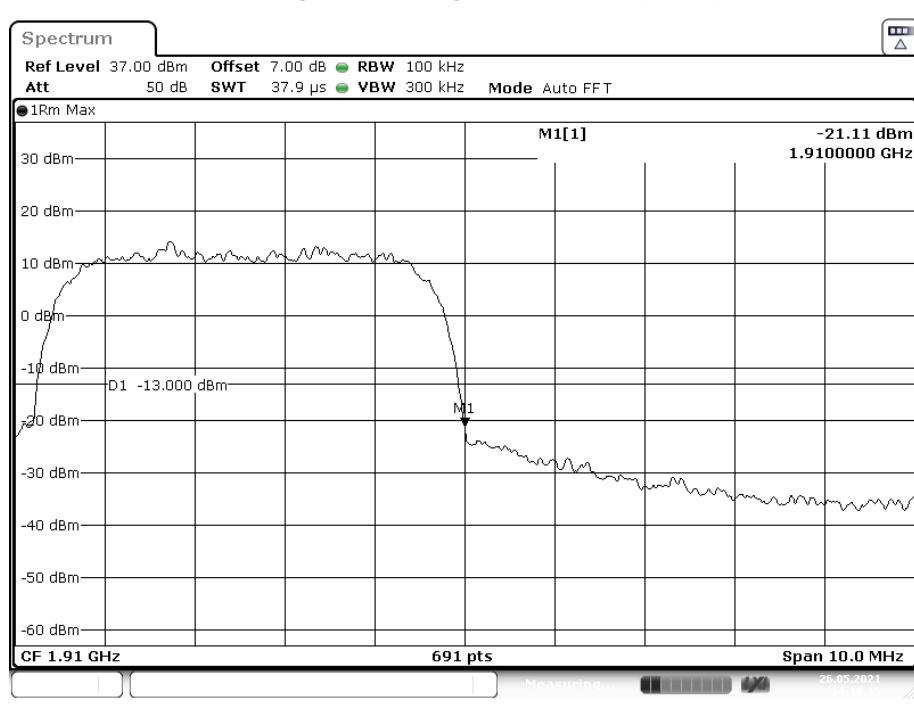
Cellular Band, Left Band Edge for HSDPA (16QAM) Mode**Cellular Band, Right Band Edge for HSDPA (16QAM) Mode**

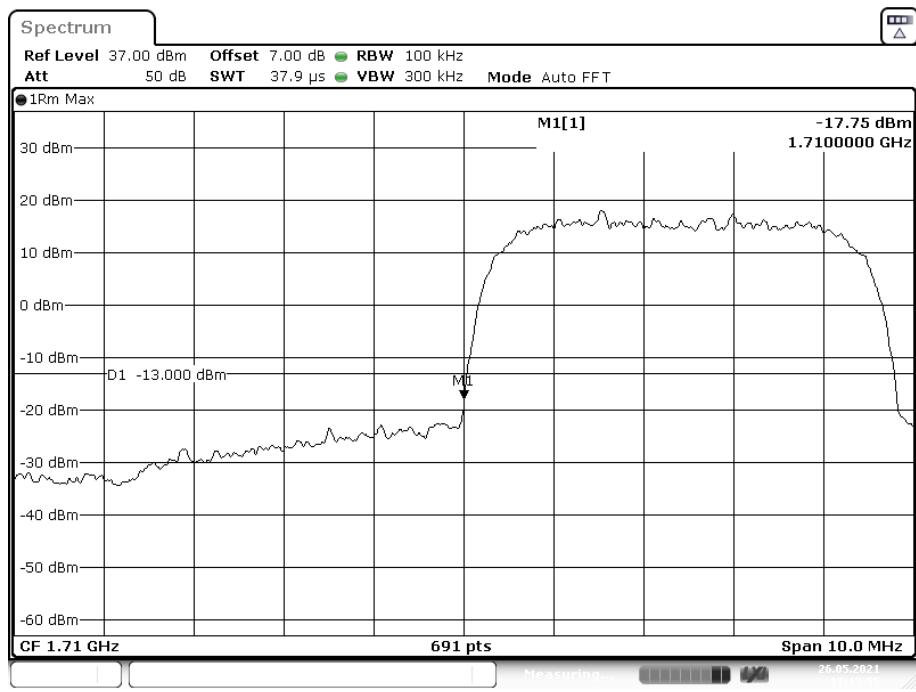
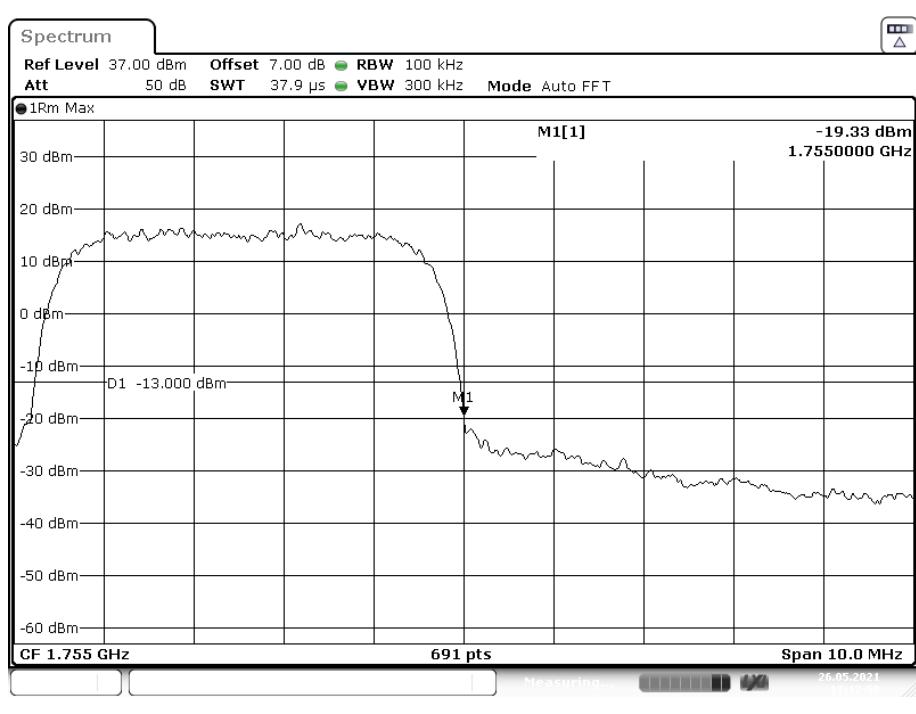
Cellular Band, Left Band Edge for HSUPA (BPSK) Mode**Cellular Band, Right Band Edge for HSUPA (BPSK) Mode**

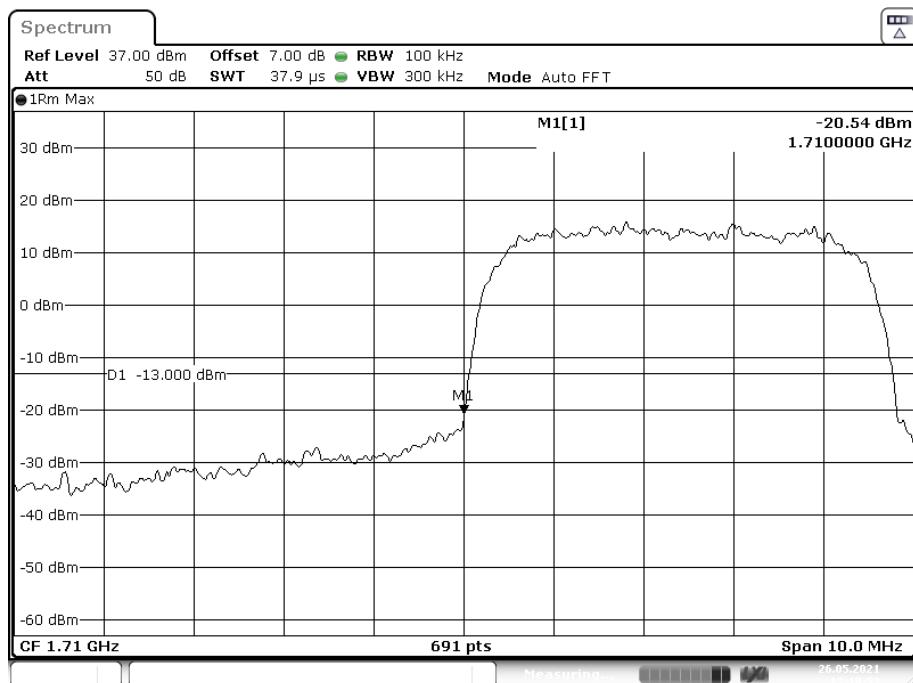
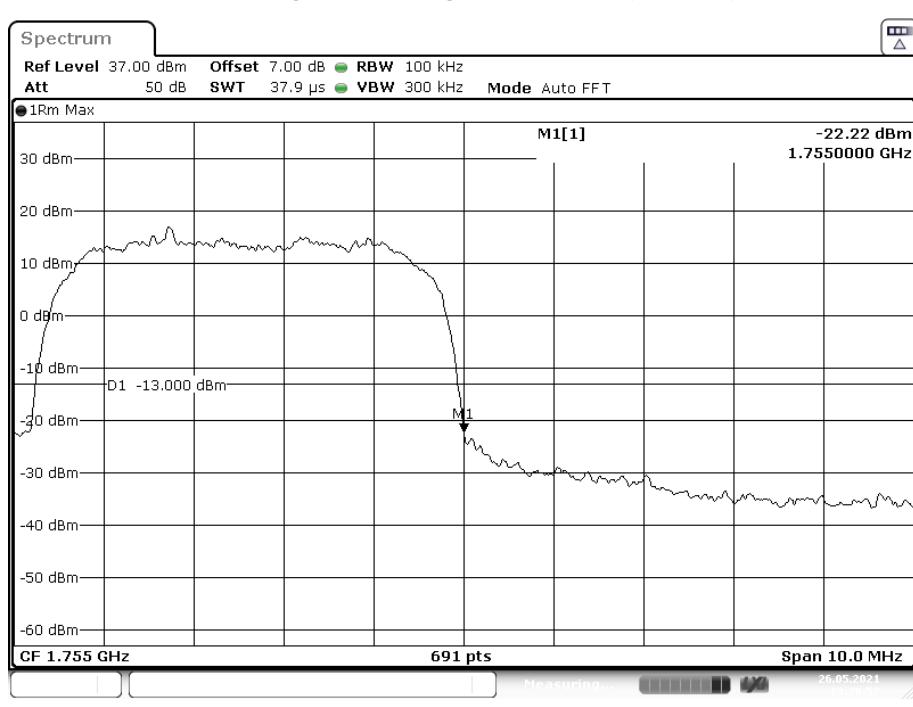
PCS Band, Left Band Edge for GSM (GMSK) Mode**PCS Band, Right Band Edge for GSM (GMSK) Mode**

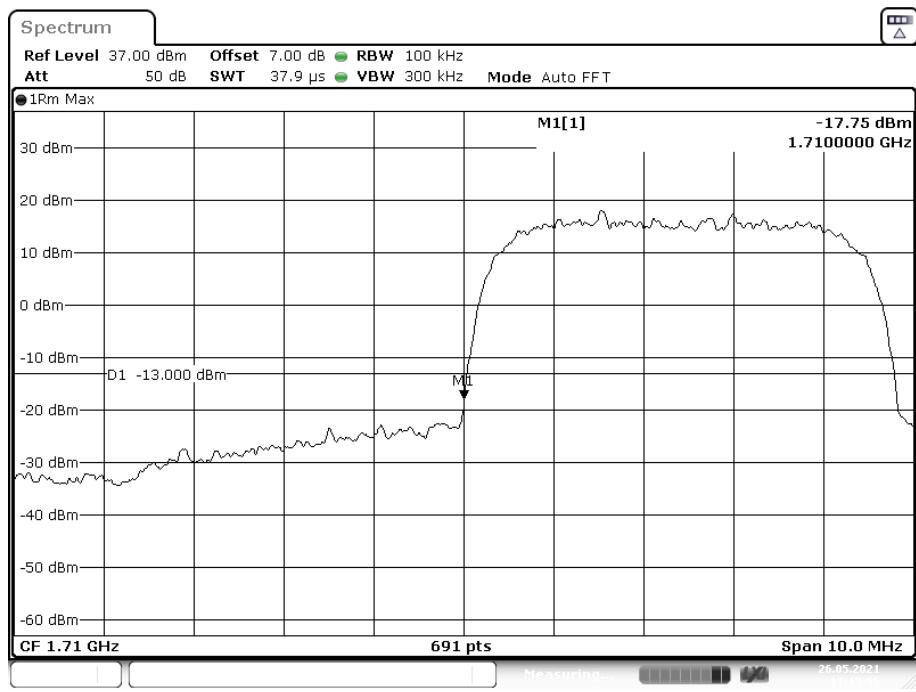
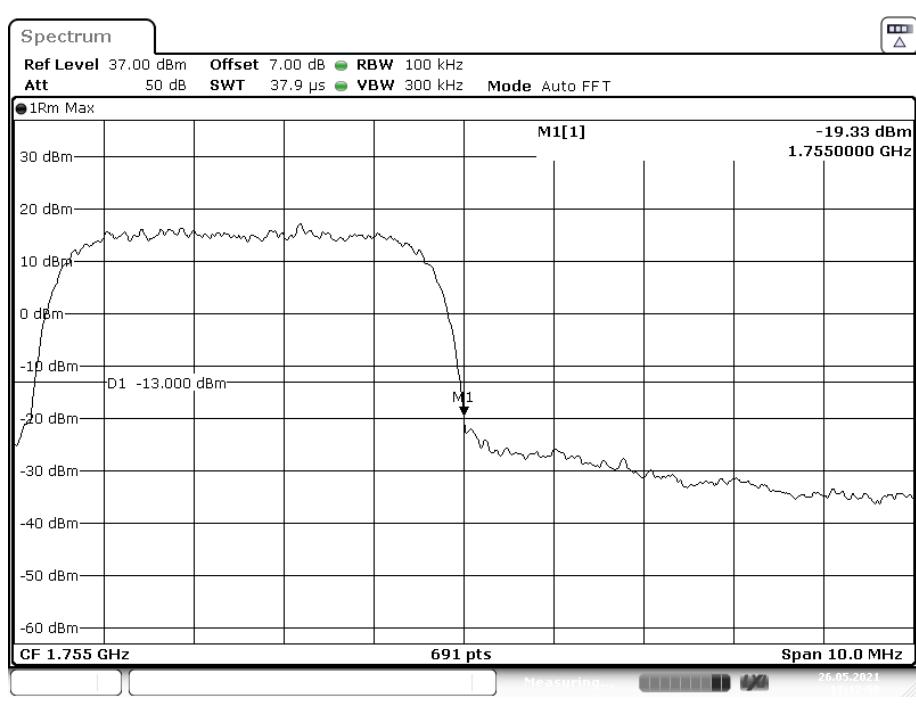
PCS Band, Left Band Edge for WCDMA (BPSK) Mode**PCS Band, Right Band Edge for WCDMA (BPSK) Mode**

PCS Band, Left Band Edge for HSDPA (16QAM) Mode**PCS Band, Right Band Edge for HSDPA (16QAM) Mode**

PCS Band, Left Band Edge for HSUPA (BPSK) Mode**PCS Band, Right Band Edge for HSUPA (BPSK) Mode**

AWS Band, Left Band Edge for WCDMA (BPSK) Mode**AWS Band, Right Band Edge for WCDMA (BPSK) Mode**

AWS Band, Left Band Edge for HSDPA (16QAM) Mode**AWS Band, Right Band Edge for HSDPA (16QAM) Mode**

AWS Band, Left Band Edge for HSUPA (BPSK) Mode**AWS Band, Right Band Edge for HSUPA (BPSK) Mode**

FCC § 2.1055; § 22.355; § 24.235; §27.54 - FREQUENCY STABILITY

Applicable Standard

FCC § 2.1055, §22.355, §24.235 and & §27.54.

According to FCC §2.1055, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile > 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

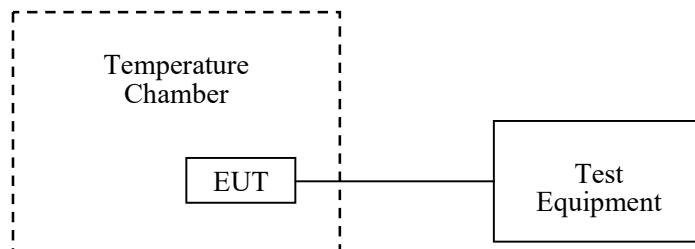
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: For hand carried, battery powered equipment; reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.



Test Data

Environmental Conditions

Temperature:	24 °C
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Zero Yan on 2021-05-26.

EUT operation mode: Transmitting

Test Result: Compliance. Please refer to the following tables.

Cellular Band (Part 22H)

GSM Mode

Middle Channel, $f_o = 836.6\text{MHz}$				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	7	0.0084	2.5
-20		8	0.0096	2.5
-10		5	0.0060	2.5
0		3	0.0036	2.5
10		2	0.0024	2.5
20		4	0.0048	2.5
30		7	0.0084	2.5
40		5	0.0060	2.5
50		4	0.0048	2.5
20	3.45	2	0.0024	2.5
	4.3	1	0.0012	2.5

WCDMA Mode

Middle Channel, $f_o=836.6\text{MHz}$				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	-4	-0.0048	2.5
-20		-6	-0.0072	2.5
-10		-5	-0.0060	2.5
0		-2	-0.0024	2.5
10		1	0.0012	2.5
20		-3	-0.0036	2.5
30		-5	-0.0060	2.5
40		-3	-0.0036	2.5
50		-6	-0.0072	2.5
20	3.45	-2	-0.0024	2.5
	4.3	-4	-0.0048	2.5

PCS Band (Part 24E)**GSM Mode**

Middle Channel, $f_o=1880.0\text{ MHz}$				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Result
-30	3.8	11	0.0059	pass
-20		9	0.0048	pass
-10		6	0.0032	pass
0		4	0.0021	pass
10		5	0.0027	pass
20		8	0.0043	pass
30		6	0.0032	pass
40		9	0.0048	pass
50		10	0.0053	pass
20	3.45	7	0.0037	pass
	4.3	9	0.0048	pass

WCDMA Mode

Middle Channel, $f_0 = 1880.0$ MHz				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Result
-30	3.8	8	0.0043	pass
-20		6	0.0032	pass
-10		7	0.0037	pass
0		2	0.0011	pass
10		4	0.0021	pass
20		6	0.0032	pass
30		7	0.0037	pass
40		10	0.0053	pass
50		8	0.0043	pass
20	3.45	5	0.0027	pass
	4.3	3	0.0016	pass

AWS Band (Part 27)

Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	3.8	1710.0182	1754.9725	1710	1755
-20		1710.0142	1754.9727	1710	1755
-10		1710.0152	1754.9760	1710	1755
0		1710.0133	1754.9782	1710	1755
10		1710.0145	1754.9733	1710	1755
20		1710.0183	1754.9721	1710	1755
30		1710.0190	1754.9712	1710	1755
40		1710.0178	1754.9703	1710	1755
50		1710.0193	1754.9722	1710	1755
20	3.45	1710.0161	1754.9763	1710	1755
	4.3	1710.0163	1754.9775	1710	1755

******* END OF REPORT *******