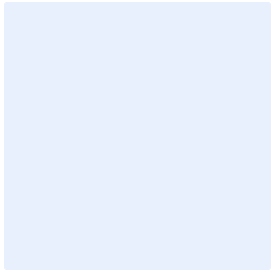


Prüfbericht-Nr.: Test report no.:	IN26I82T 001	Auftrags-Nr.: Order no.:	147163601 010	Seite 1 von 73 Page 1 of 73
Kunden-Referenz-Nr.: Client reference no.:	1039889	Auftragsdatum: Order date:	2026-02-05	
Auftraggeber: Client:	Bosch Global Software Technologies Private Limited MS/PAC, Ban601, Post Box No 3000 Hosur Road, Aduogodi Bengaluru 560030 India			
Prüfgegenstand: Test item:	iTraMS Gen2E HF			
Bezeichnung / Typ-Nr.: Identification / Type no.:	CU-403-1011-01 CU-403-1011-02			
Auftrags-Inhalt: Order content:	Testing and issue of Test Report			
Prüfgrundlage: Test specification:	47 CFR Part2, 47 CFR Part 22 Subpart H, FCC Part15 Subpart C 15.207, 15.209 RSS Gen Issue 5, RSS 132 Issue 4			
Wareneingangsdatum: Date of sample receipt:	2026-03-17			
Prüfmuster-Nr.: Test sample no.:	A004227783-001, 003 A004227783-007, 009			
Prüfzeitraum: Testing period:	2026-03-18 - 2026-04-30			
Ort der Prüfung: Place of testing:	Wireless laboratory, Bangalore			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (India) Pvt.Ltd., 27/B, 2nd Cross, Electronic City Phase1 Bangalore -560 100, India FCC Test site registration number: 496599 ISED Test site registration number: 27711			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	genehmigt von: authorized by:			
Datum: Date: 2026-08-07			Ausstellungsdatum: Issue date: 2026-08-07	
Stellung / Position:	Darshan D Senior Engineer	Stellung / Position:	Yogesh V Assistant Manager	
Sonstiges / Other:	FCC ID: 2AVVT-CU4031011 IC: 25763-CU4031011			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>	
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>	
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>	

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TEST SUMMARY

Test Item	FCC Clause	IC Clause	Results
Conducted Output Average Power and Peak to Average Power ratio	§2.1046 §22.913(a)(5)(d)	RSS-132, §5.4	Pass
Equivalent Isotropic Radiated Power (EIRP) / Effective Radiated Power (ERP)	§22.913 (a) (5)	RSS-Gen, §6.12; RSS-132, §5.4	Pass
Field strength of spurious radiation	§2.1053 §22.917	RSS-Gen, §6.13; RSS-132, §5.5	Pass
Frequency Stability	§2.1055 §22.355	RSS-Gen, §6.11 RSS-132, §5.3	N/T
Emission Bandwidth and Occupied Bandwidth	§2.1049	RSS-Gen, §6.6	N/T
Band Edge	§ 2.1051 §22.917	RSS-Gen, §6.13; RSS-132, §5.5	N/T
Spurious emissions at antenna terminals	§2.1051 §22.917	RSS-Gen, §6.13; RSS-132, §5.5	N/T

Note:

N/T: Not Tested – These test cases have not been executed, as the product incorporates the certified RF module **LTE Module, Model: AG35-NA** from **Quectel**. This module has been tested at **Sporton International (Kunshan) Inc. No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu Province 215335, China** under **FCC ID: XMR201905AG35NA**. Therefore, the mentioned test cases are excluded, and relevant details can be found in the module's test report No. **FG912203B**,

Product Category: Electronics Testing
Test Discipline: EMC Test Facility

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REVISION HISTORY OF THIS REPORT

Report Number	Version	Description	Issue date
IN26I82T 001	01	Initial Issue of Test Report	2026-08-07

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1 GENERAL REMARKS

1.1 Attachments

All attachments are part of this test report and are issued in separate document

1: TEST SETUP PHOTOS

2: EUT EXTERNAL PHOTOS

3: EUT INTERNAL PHOTOS

4: MAXIMUM PERMISSIBLE EXPOSURE INFORMATION

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2 TEST SITES

2.1 Testing Facilities

1. TÜV Rheinland (India) Pvt.Ltd.,
27/B, 2nd Cross,
ElectronicCityPhase1
Bangalore – 560 100,
India
2. TUV Rheinland (India) Private Limited
108 , Beside ISBR Business School,
Electronic city Phase I
Bangalore - 560 100.
India

2.2 List of Test and Measurement Instruments

Table 1: List of test and measurement instruments

Equipment	Manufacturer	Model Name	Serial Number	Firmware Versions	Calibration Due Date	Periodicity	Test Facility
EMI Receiver	Rohde & Schwarz	ESW 44	101773	1.72 SP5	16.02.2027	Yearly	Radiated Spurious Emission
Active loop antenna	Frankonia	LAX-10	LAX-10-800	-	17.11.2026	Yearly	
Balun & Biconical Antenna	Schwarzbeck Mess-Elektronik	BBA 9106+VHBB 9124	9124-1117	-	11.04.2026	Yearly	
Log Periodic Antenna	Schwarzbeck Mess-Elektronik	VUSLP 9111B	9111B-324	-	26.05.2026	Yearly	
Horn Antenna	Schwarzbeck	BBHA 9120D	01944	-	11.11.2026	Yearly	
Double-Ridged Waveguide Horn Antenna	ETS	116706	00107323	-	16.05.2026	Yearly	
EMI Test Receiver	Rohde & Schwarz	ESW44	101732	1.72.SP1	20.11.2026	Yearly	Antenna – Port Conducted
30dB Attenuator	Mini Circuits	BW-N30W5+	938		06.10.2026		
Radio Communication tester	Rohde & Schwarz	CMW 500	1201.0002K50	-	10.02.2027	Yearly	

Table 2: Instrument application Software versions

SL. No.	Test Type	Application software	Version
1	Radiated spurious emission measurement in SAC	BATEMC	V2022.0.11.0
2	Radiated spurious emission measurement in FAC	EMC 32	10.60.20

3 GENERAL PRODUCT INFORMATION

3.1 Product Function and Intended Use

iTraMS is a platform for TCU or CCU that is an onboard system that controls wireless tracking, diagnostics and communication to/from the vehicle; these systems can be used for fleet management and vehicle tracking, among many others. This CCU has the following connectivity solutions:

1. Wireless Connectivity :
 - Cellular – LTE
 - WLAN
 - Wi-Fi
 - GNSS
2. Wireless Connectivity :
 - CAN
 - Ethernet
 - USB

3.2 Ratings and System Details of Equipment under Test

Table 3: Ratings and System Details as declared by Supplier*

Radio Protocol		LTE Band 5				
LTE E-UTRA operating bands		Band	Bandwidth (MHz)	UL Frequency (MHz)	DL Frequency (MHz)	Modulation
		5	1.4, 3, 5, 10	824 – 849	869 – 894	QPSK, 16QAM
GSM 850MHz		850MHz	-	824-849	869 - 894	GMSK, 8PSK
Transmitted Power for LTE (dBm)		Band	Power Class	Max. Conducted Average. Output Power		
		5	Power Class 3: 23dBm	22.83dBm@ 10MHz, QPSK (829 MHz)		
Transmitted Power for GSM 850MHz (dBm)		850MHz	Power class 5: 33dBm	31.29dBm@848.80MHz		
Modulation		GSM System, GSM/GPRS, GMSK modulation GSM System, EGPRS,8PSK modulation LTE system, QPSK modulation LTE system, 16QAM modulation				
Antenna Type		Gen 2E & MA284 4 in 1 Adhesive Mount				
Number of Antenna		2				
Antenna Gain		Refer Tabel 4 & 5				
Supply Voltage to Product		12V DC 200mA Approx.				
Environmental conditions	Storage	-40°C to 80°C				
	Operating	-40°C to 70°C				
EUT Dimension (L x W x H)		190 X 95 X 42 mm				

Antenna Details:

Antenna Type	Cellular Bands	Uplink Frequency Range (MHz)	Downlink Frequency Range (MHz)	Antenna Gain (dBi)
Primary Antenna (External)	Band 2	1850.7 – 1909.3	1930.7 – 1989.3	5.45
	Band 4	1710.7 – 1754.3	2110.7 – 2154.3	5.00
	Band 5	824.7 – 848.3	869.7 – 893.3	1.80
	Band 7	2502.5 – 2567.5	2622.5 – 2687.5	4.14

Table 4: (Gen 2E) Internal Antenna Gain

Antenna Type	Cellular Bands	Uplink Frequency Range (MHz)	Downlink Frequency Range (MHz)	Antenna Gain (dBi)
Primary Antenna (External)	Band 2	1850.7 – 1909.3	1930.7 – 1989.3	3.63
	Band 4	1710.7 – 1754.3	2110.7 – 2154.3	3.15
	Band 5	824.7 – 848.3	869.7 – 893.3	2.34
	Band 7	2502.5 – 2567.5	2622.5 – 2687.5	2.85
	Band 12	699.7 – 715.3	729.7 – 745.3	1.99
	Band 13	779.5 – 784.5	748.5 – 753.5	1.99
	Band 17	706.5 – 713.5	736.5 – 743.5	1.99

Table 5: (MA284 4 in 1 Adhesive Mount) Extrenal Antenna Gain

*Disclaimer:

The above information/data is supplied by the client and the same is considered to arrive at the final value. Any changes made apart from the specified specification, can directly impact on the tests results. Refer the products user manual for more details.

3.3 Measurement Uncertainty

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$

Table 6: Calculated Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	±0.67 dB
Power Spectral Density, conducted	±0.85 dB
Unwanted Emissions, conducted	±2.58 dB
All emissions, radiated	±3.67 dB

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4 TEST SET-UP AND OPERATION MODE

4.1 Principle of Configuration Selection

Transmission was enabled with highest possible duty cycle on low, mid and high channels.

4.2 UUT Operation and Software

Software Version: 02.004.00
CU-403-1011-01- **AD00 A1 0143 5EA**
Hardware Version: CU-403-1011-02 - **AD00 A1 0154 5EA**

4.3 Special Accessories and Auxiliary Equipment

- None

4.4 Countermeasures to achieve EMC Compliance

- None

4.5 Report references

- None

Note:

TUV Sample Identification number: – A004227783-001 Radiated test Sample
A004227783-003 Conducted test Sample

5 Operational Description of the product

The iTraMS Gen2E CCU has a NAD (Network Access Device) module AG35 and a microcontroller RH850, which are connected over SPI to enable telematics functionality.

The AG35 NAD module comes from Quectel and is a North America specific variant. It functions only with North America regional LTE bands. It also contains embedded GNSS supporting GPS/GLONASS/Beidou/Galileo/QZSS and supports location-based telematics features such as tracking and geofencing. The internal antenna HW variant has dedicated LTE & GNSS antennas on the PCB.

The RH850 microcontroller comes from Renesas and collects vehicle data over the CAN network. It enables telematics related features on vehicle parameters such as engine performance.

The CCU also has an on-board accelerometer & gyro sensor, SMI230 from Bosch, which enables inertial monitoring

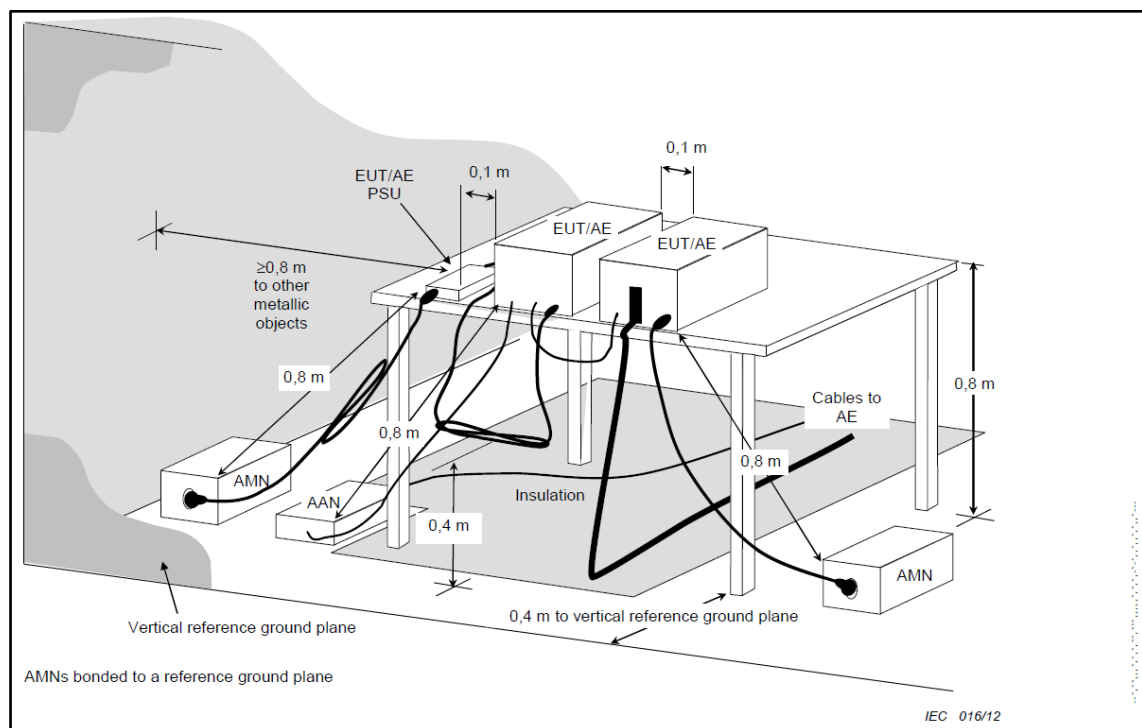
6 TEST METHODOLOGY

6.1 AC Power lines Conducted emission.

Measured levels of ac powerline conducted emission across the 50Ω LISN port (to which the EUT is connected). All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer.

The device is placed on the test table, raised 80cm above the reference ground plane. The vertical conducting plane is located 40cm to the rear of the device. AC Conducted emission measurement is made over frequency range from 150kHz to 30MHz, this measurement was performed with EUT powered with an AC adaptor with 110V AC 60Hz supply.

6.1.1 Test Setup Configuration



6.2 Radiated Emission Test

Frequency Range 9 kHz - 30 MHz

Test performed as per ANSI C63.4-2014 section 8.3

The loop Antenna was placed at 1m above the ground plane & EUT is 3 meters far from the measuring antenna. With 3m measurement distance, correction data were applied to the measured results. The test arrangement, measuring antenna guidelines and operational configurations in 8.2.1 and 8.2.2, shall be followed. The measurement antenna shall be positioned with its plane perpendicular to the ground at the Specified distance, when perpendicular to the ground plane, the lowest height of the magnetic antenna shall be 1 m above the ground and shall be positioned at the specified distance from the EUT. EUT & its associates are placed on non-conducting table of 0.8m height which is placed on the turn table, For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable. The report shall list worst case emission results, for each of the parallel & perpendicular orientations.

6.2.1 Test Setup Configuration

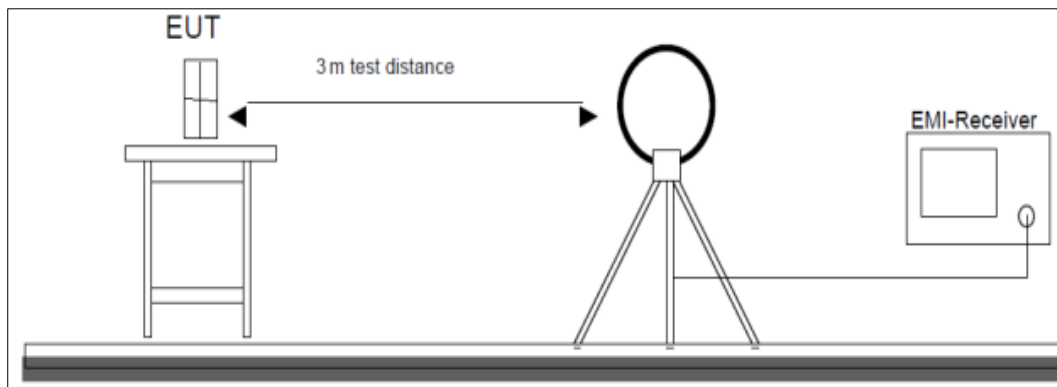


Figure 1: Frequency Range 9 kHz- 30 MHz

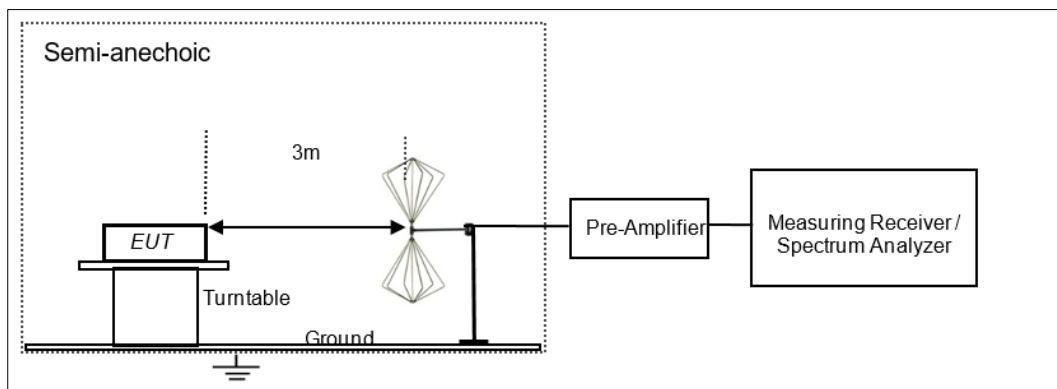


Figure 2: Frequency Range 30 MHz – 200 MHz

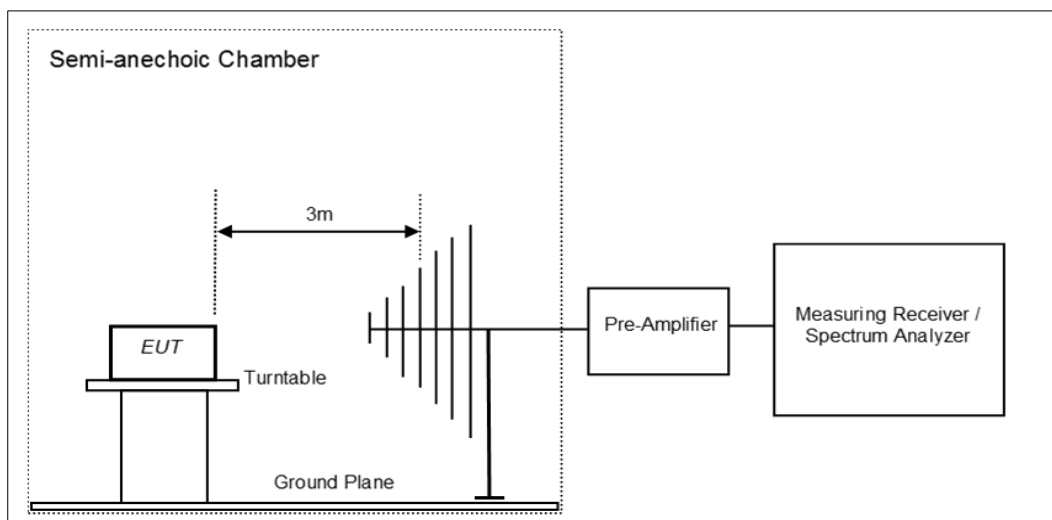


Figure 3: Frequency Range 200 MHz - 1GHz

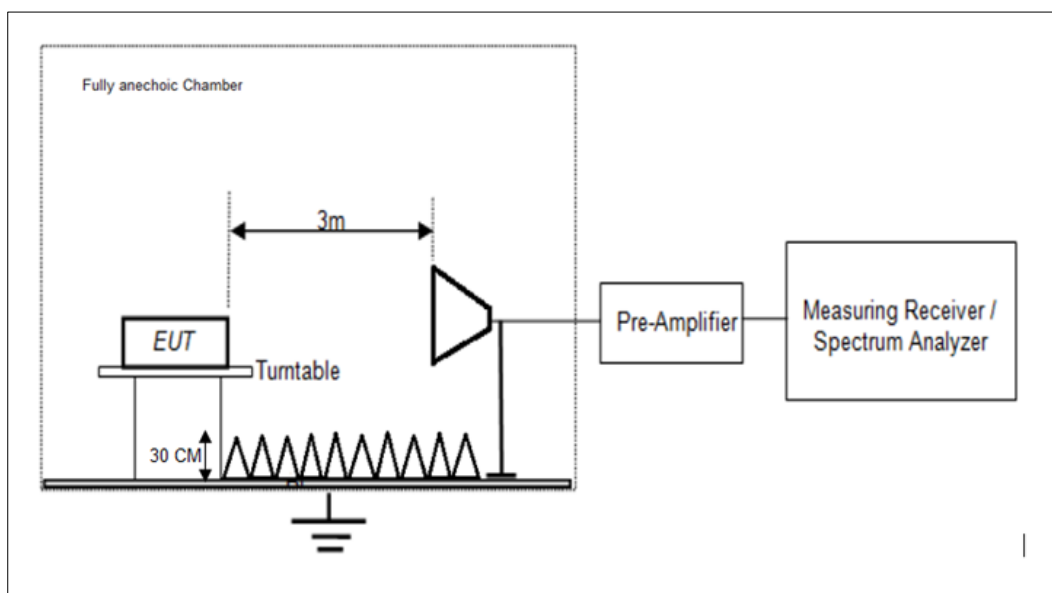


Figure 4: Frequency Range above 1 GHz

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Frequency Range 30MHz to 10th harmonics of the highest fundamental frequency

Test performed as per ANSI C63.26-2015

Radiated spurious emission test are performed as below.

All the radiated emission measurements are performed in accordance with common requirement specified in 5.5.2 and Pre-test site path loss correction factors are used to adjust the EUT emission data in place of two step substitution method (as defined in Annex B of ANSI C63.26-2015).

The equipment under test is placed on non-conductive table at 3m away from the receive antenna in accordance with above mentioned standard. Turn table is rotated through 360 degree, and receiver antenna height is varied in order to determine the level of maximum emission. The maximum emission level and position of the maximized emission is recorded with use of spectrum analyzer.

Using pre-test site path loss to determine EUT emission power:

- 1) EUT emission powers are calculated using the following equation:

$$\text{Emission Power} = \text{EUT}_{\text{Prec}} [\text{dBm EIRP/ ERP}] + \text{P}_L [\text{dB}]$$

where

EUT_{Prec} = power of the emission measured at the test receiver during EUT measurements.

P_L = path loss determined on the frequency of the EUT emission or calculated using linear interpolation between site characterization frequencies.

- 2) This is the level to be compared against the regulatory limit as it is the emission power referenced back to the EUT on the test site.

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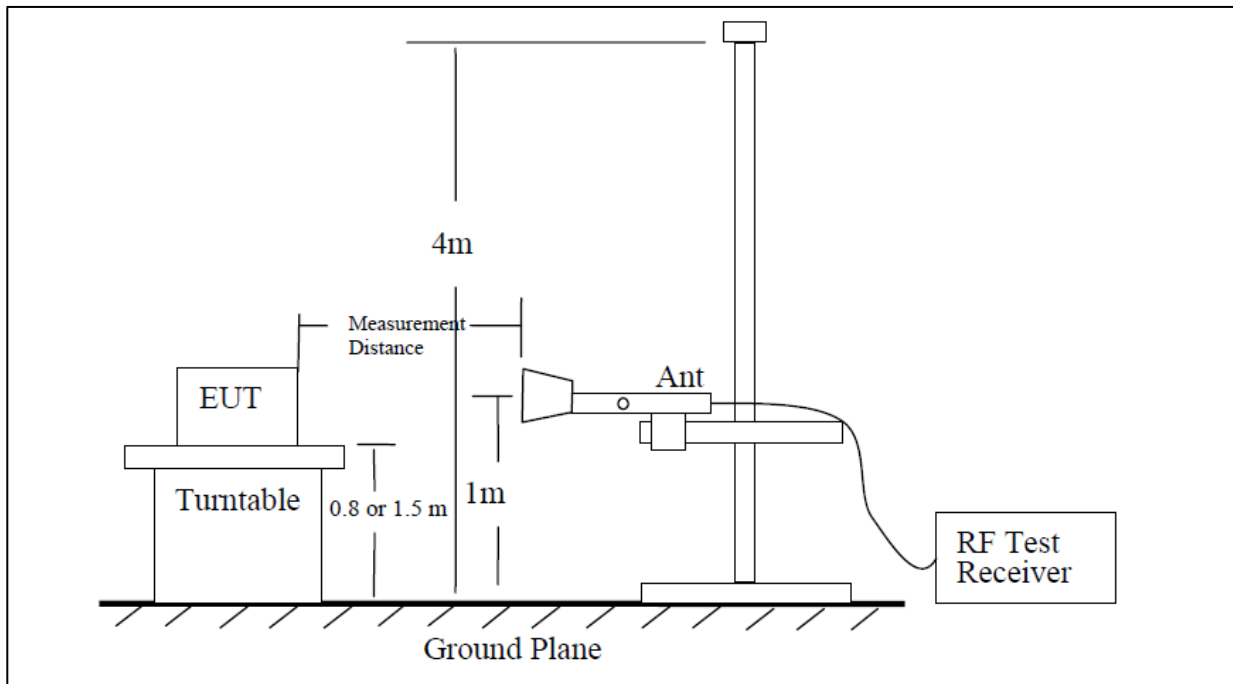
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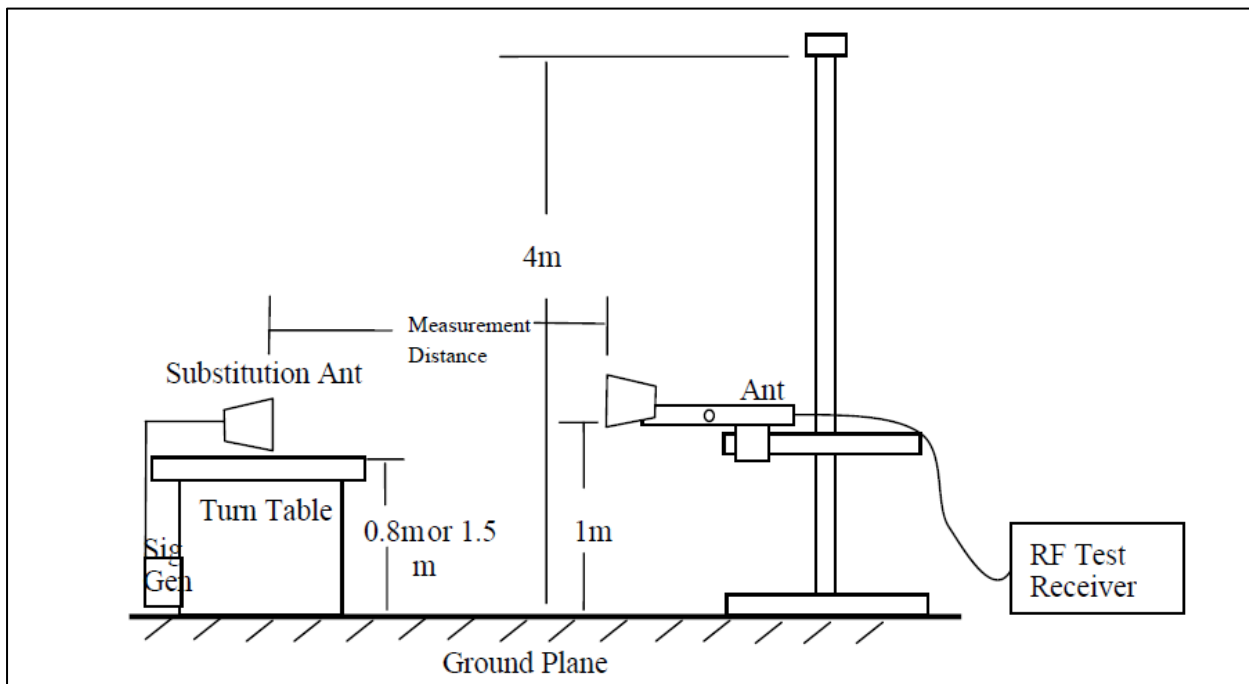
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Test site-up for radiated measurements



Substitution method set-up for radiated emission



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7 TEST RESULTS

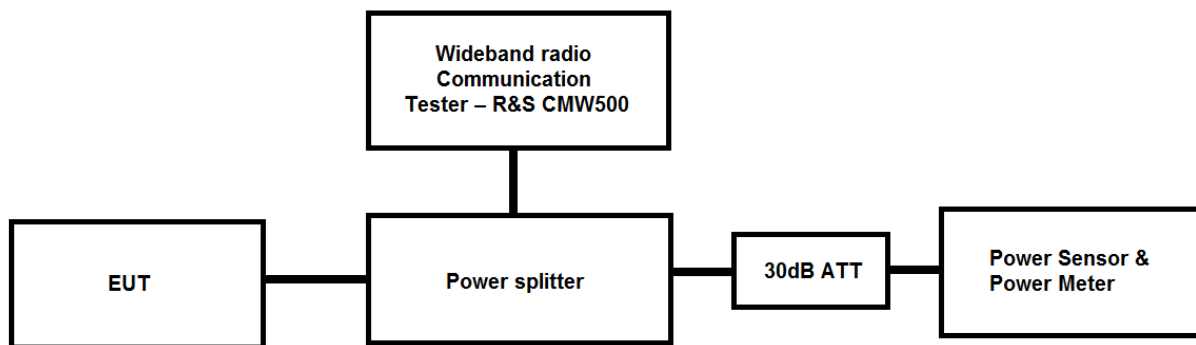
7.1 Peak-Average Ratio

Result

Pass

Specification	FCC Part §2.1046 & §22.913(a)(5)(d) RSS-132, §5.4 ANSI C63.26-2015
Test Method / Procedure	As per subclause 5 in 971168 D01 Power Meas License Digital Systems v03r01
Detector Function	Peak/Average
Requirement	PAPR ≤ 13dB

Test Setup:



Environmental Conditions:

Temperature: +23.6°C

Voltage: 12V DC through DC supply

Relative Humidity: 62%

KDB Guidelines applied:

Measurements were made as per section 5.2.4 in KDB 971168 D01 Power Meas License Digital Systems v03r01

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Test results:

Note:

- 1 All the losses are included during measurement and final values are mentioned in the test report.
2. Total Average Output power (dBm) = Measured Average power (dBm) + Attenuator factor (30dB) + Power Splitter (6 dB) + Cable loss (1dB)
3. PAPR (dB) = Measured Peak Power(dBm) – Measured Average Power(dBm)

PAPR Test Results

Band-5

Channel Bandwidth (MHz)	Modulation Technique	Channel Frequency (MHz)	RB Position & RB Allocation		Measured Peak Power (dBm)	Measured Average Power (dBm)	PAPR (dB)	Limit (dB)
			Size	Offset				
1.4MHz	QPSK	824.7	1	0	25.03	21.87	3.16	13.00
			1	3	24.59	21.45	3.14	13.00
			1	5	25.06	21.77	3.29	13.00
			3	0	23.49	20.32	3.17	13.00
			3	3	23.47	20.12	3.35	13.00
			6	0	24.48	20.55	3.93	13.00
		836.5	1	0	24.84	21.23	3.61	13.00
			1	3	25.38	21.87	3.51	13.00
			1	5	25.02	21.38	3.64	13.00
			3	0	24.08	20.19	3.89	13.00
			3	3	24.13	20.22	3.91	13.00
			6	0	24.51	20.15	4.36	13.00
		848.3	1	0	25.54	21.98	3.56	13.00
			1	3	24.96	21.56	3.40	13.00
			1	5	24.96	21.44	3.52	13.00
			3	0	25.28	21.49	3.79	13.00
			3	3	23.90	20.16	3.74	13.00
			6	0	24.30	20.01	4.29	13.00
	16QAM	824.7	1	0	24.60	20.87	3.73	13.00
			1	3	25.45	21.74	3.71	13.00
			1	5	24.61	20.64	3.97	13.00
			3	0	24.38	20.49	3.89	13.00
			3	3	24.63	20.42	4.21	13.00
			6	0	24.94	20.11	4.83	13.00
		836.5	1	0	25.65	21.35	4.30	13.00
			1	3	25.53	21.29	4.24	13.00
			1	5	24.46	20.17	4.29	13.00
			3	0	25.47	20.89	4.58	13.00
			3	3	25.23	20.61	4.62	13.00
			6	0	25.32	20.05	5.27	13.00
		848.3	1	0	25.76	21.58	4.18	13.00
			1	3	25.90	21.83	4.07	13.00
			1	5	25.68	21.56	4.12	13.00
			3	0	25.35	20.93	4.42	13.00
			3	3	24.89	20.47	4.42	13.00
			6	0	25.25	20.19	5.06	13.00

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Channel Bandwidth (MHz)	Modulation Technique	Channel Frequency (MHz)	RB Position & RB Allocation		Measured Peak Power (dBm)	Measured Average Power (dBm)	PAPR (dB)	Limit (dB)
			Size	Offset				
3MHz	QPSK	825.5	1	0	25.13	21.91	3.22	13.00
			1	8	24.99	21.67	3.32	13.00
			1	14	24.10	20.54	3.56	13.00
			8	0	24.42	20.77	3.65	13.00
			8	7	24.13	20.19	3.94	13.00
			15	0	24.32	20.13	4.19	13.00
		836.5	1	0	25.16	21.48	3.68	13.00
			1	8	24.93	21.39	3.54	13.00
			1	14	24.62	20.95	3.67	13.00
			8	0	24.80	20.73	4.07	13.00
			8	7	24.66	20.59	4.07	13.00
			15	0	24.64	20.21	4.43	13.00
		847.5	1	0	25.33	21.69	3.64	13.00
			1	8	25.28	21.75	3.53	13.00
			1	14	24.63	20.95	3.68	13.00
			8	0	24.73	20.81	3.92	13.00
			8	7	24.20	20.29	3.91	13.00
			15	0	24.59	20.22	4.37	13.00
	16QAM	825.5	1	0	25.09	21.41	3.68	13.00
			1	8	25.22	21.32	3.90	13.00
			1	14	24.73	20.54	4.19	13.00
			8	0	24.63	20.15	4.48	13.00
			8	7	24.80	20.07	4.73	13.00
			15	0	24.98	20.01	4.97	13.00
		836.5	1	0	26.01	21.62	4.39	13.00
			1	8	25.62	21.42	4.20	13.00
			1	14	25.18	20.92	4.26	13.00
			8	0	25.75	20.81	4.94	13.00
			8	7	25.19	20.27	4.92	13.00
			15	0	25.37	20.15	5.22	13.00
		847.5	1	0	25.05	20.83	4.22	13.00
			1	8	24.91	20.75	4.16	13.00
			1	14	24.78	20.64	4.14	13.00
			8	0	25.11	20.25	4.86	13.00
			8	7	25.06	20.18	4.88	13.00
			15	0	25.33	20.01	5.32	13.00

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Channel Bandwidth (MHz)	Modulation Technique	Channel Frequency (MHz)	RB Position & RB Allocation		Measured Peak Power (dBm)	Measured Average Power (dBm)	PAPR (dB)	Limit (dB)
			Size	Offset				
5MHz	QPSK	826.5	1	0	25.98	21.97	4.01	13.00
			1	13	24.93	21.54	3.39	13.00
			1	24	25.78	22.21	3.57	13.00
			12	0	24.40	20.66	3.74	13.00
			12	13	24.62	20.61	4.01	13.00
			25	0	24.94	20.54	4.40	13.00
		836.5	1	0	25.36	21.77	3.59	13.00
			1	13	25.40	21.87	3.53	13.00
			1	24	23.78	20.15	3.63	13.00
			12	0	24.28	20.21	4.07	13.00
			12	13	24.21	20.13	4.08	13.00
			25	0	24.93	20.17	4.76	13.00
		846.5	1	0	25.43	21.85	3.58	13.00
			1	13	25.13	21.64	3.49	13.00
			1	24	24.62	21.05	3.57	13.00
			12	0	24.98	20.98	4.00	13.00
			12	13	24.63	20.72	3.91	13.00
			25	0	24.72	20.29	4.43	13.00
	16QAM	826.5	1	0	25.28	21.51	3.77	13.00
			1	13	25.29	21.11	4.18	13.00
			1	24	25.39	21.19	4.20	13.00
			12	0	25.36	20.77	4.59	13.00
			12	13	25.22	20.37	4.85	13.00
			25	0	25.41	20.19	5.22	13.00
		836.5	1	0	25.68	21.29	4.39	13.00
			1	13	25.34	21.13	4.21	13.00
			1	24	25.39	20.94	4.45	13.00
			12	0	25.64	20.71	4.93	13.00
			12	13	25.46	20.53	4.93	13.00
			25	0	25.95	20.48	5.47	13.00
		846.5	1	0	25.35	21.27	4.08	13.00
			1	13	25.14	21.18	3.96	13.00
			1	24	24.97	20.95	4.02	13.00
			12	0	25.40	20.54	4.86	13.00
			12	13	25.04	20.23	4.81	13.00
			25	0	25.29	20.07	5.22	13.00

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Channel Bandwidth (MHz)	Modulation Technique	Channel Frequency (MHz)	RB Position & RB Allocation		Measured Peak Power (dBm)	Measured Average Power (dBm)	PAPR (dB)	Limit (dB)
			Size	Offset				
10MHz	QPSK	829	1	0	25.20	21.94	3.26	13.00
			1	25	25.78	22.83	2.95	13.00
			1	49	24.29	20.74	3.55	13.00
			25	0	24.07	20.13	3.94	13.00
			25	25	25.78	21.66	4.12	13.00
			50	0	24.44	20.29	4.15	13.00
		836.5	1	0	25.54	21.92	3.62	13.00
			1	25	24.78	21.24	3.54	13.00
			1	49	24.56	20.95	3.61	13.00
			25	0	24.92	20.77	4.15	13.00
			25	25	24.51	20.43	4.08	13.00
			50	0	24.68	20.26	4.42	13.00
		844	1	0	25.48	21.86	3.62	13.00
			1	25	25.07	21.51	3.56	13.00
			1	49	25.25	21.67	3.58	13.00
			25	0	25.66	21.55	4.11	13.00
			25	25	24.43	20.41	4.02	13.00
			50	0	24.44	20.22	4.22	13.00
	16QAM	829	1	0	25.28	21.32	3.96	13.00
			1	25	25.76	21.61	4.15	13.00
			1	49	25.02	20.64	4.38	13.00
			25	0	25.20	20.33	4.87	13.00
			25	25	25.57	20.58	4.99	13.00
			50	0	25.69	20.03	5.66	13.00
		836.5	1	0	24.93	20.59	4.34	13.00
			1	25	24.99	20.76	4.23	13.00
			1	49	24.63	20.23	4.40	13.00
			25	0	25.20	20.19	5.01	13.00
			25	25	25.18	20.17	5.01	13.00
			50	0	25.61	20.04	5.57	13.00
		844	1	0	25.28	20.93	4.35	13.00
			1	25	24.97	20.80	4.17	13.00
			1	49	24.79	20.61	4.18	13.00
			25	0	25.24	20.27	4.97	13.00
			25	25	25.15	20.18	4.97	13.00
			50	0	25.76	20.09	5.67	13.00

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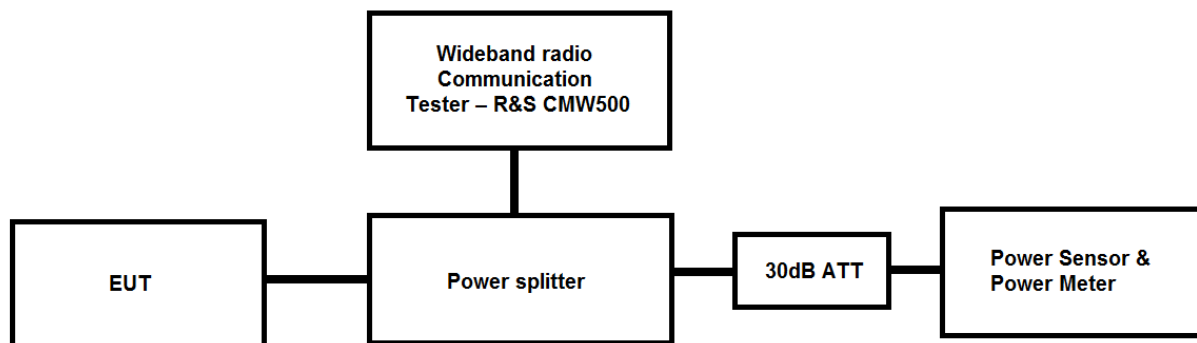
7.2 Effective (Isotropic) Radiated Power

Result

Pass

Specification	FCC Part §2.1046 & Part §22.913 RSS-Gen, §6.12; RSS-132, §5.4 ANSI C63.26-2015
Test Method / Procedure	As per subclause 5 in 971168 D01 Power Meas License Digital Systems v03r01
Detector Function	Average
Requirement	The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts

Test Setup:



Environmental Conditions:

Temperature: +23.6°C

Voltage: 12V DC through DC supply

Relative Humidity: 62%

KDB Guidelines applied:

Measurements were made as per section 5.2.4 in KDB 971168 D01 Power Meas License Digital Systems v03r01

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Test Results:

Note:

1. All the losses are included during measurement and final values are mentioned in the test report.
2. Total Average Output power (dBm) = Measured Average power (dBm) + Attenuator factor (30dB) + Power Splitter (3.3 dB) + Cable loss (1dB)
3. For getting the EIRP(Equivalent Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP (dBm) = Conducted power (dBm) + Antenna gain (dBd)

EIRP (dBm) = Conducted power (dBm) + Antenna gain (dBi)

LTE Band: 5

Internal Antenna Gain (1.8 dBd):

Channel Bandwidth (MHz)	Modulation	Channel Frequency (MHz)	RB Position & RB Allocation		Measured Average Power (dBm)	ERP (dBm)	Limit (dBm)
			Size	Offset			
1.4MHz	QPSK	824.7	1	0	21.87	22.06	33.00
			1	3	21.45	21.64	33.00
			1	5	21.77	21.96	33.00
			3	0	20.32	20.51	33.00
			3	3	20.12	20.31	33.00
			6	0	20.55	20.74	33.00
		836.5	1	0	21.23	21.42	33.00
			1	3	21.87	22.06	33.00
			1	5	21.38	21.57	33.00
			3	0	20.19	20.38	33.00
			3	3	20.22	20.41	33.00
			6	0	20.15	20.34	33.00
		848.3	1	0	21.98	22.17	33.00
			1	3	21.56	21.75	33.00
			1	5	21.44	21.63	33.00
			3	0	21.49	21.68	33.00
			3	3	20.16	20.35	33.00
			6	0	20.01	20.20	33.00
	16QAM	824.7	1	0	20.87	21.06	33.00
			1	3	21.74	21.93	33.00
			1	5	20.64	20.83	33.00
			3	0	20.49	20.68	33.00
			3	3	20.42	20.61	33.00
			6	0	20.11	20.30	33.00
		836.5	1	0	21.35	21.54	33.00
			1	3	21.29	21.48	33.00
			1	5	20.17	20.36	33.00
			3	0	20.89	21.08	33.00
			3	3	20.61	20.80	33.00
			6	0	20.05	20.24	33.00
		848.3	1	0	21.58	21.77	33.00
			1	3	21.83	22.02	33.00
			1	5	21.56	21.75	33.00
			3	0	20.93	21.12	33.00
			3	3	20.47	20.66	33.00
			6	0	20.19	20.38	33.00

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Channel Bandwidth (MHz)	Modulation	Channel Frequency (MHz)	RB Position & RB Allocation		Measured Average Power (dBm)	ERP (dBm)	Limit (dBm)
			Size	Offset			
3MHz	QPSK	825.5	1	0	21.91	22.10	33.00
			1	8	21.67	21.86	33.00
			1	14	20.54	20.73	33.00
			8	0	20.77	20.96	33.00
			8	7	20.19	20.38	33.00
			15	0	20.13	20.32	33.00
		836.5	1	0	21.48	21.67	33.00
			1	8	21.39	21.58	33.00
			1	14	20.95	21.14	33.00
			8	0	20.73	20.92	33.00
			8	7	20.59	20.78	33.00
			15	0	20.21	20.40	33.00
		847.5	1	0	21.69	21.88	33.00
			1	8	21.75	21.94	33.00
			1	14	20.95	21.14	33.00
			8	0	20.81	21.00	33.00
			8	7	20.29	20.48	33.00
			15	0	20.22	20.41	33.00
	16QAM	825.5	1	0	21.41	21.60	33.00
			1	8	21.32	21.51	33.00
			1	14	20.54	20.73	33.00
			8	0	20.15	20.34	33.00
			8	7	20.07	20.26	33.00
			15	0	20.01	20.20	33.00
		836.5	1	0	21.62	21.81	33.00
			1	8	21.42	21.61	33.00
			1	14	20.92	21.11	33.00
			8	0	20.81	21.00	33.00
			8	7	20.27	20.46	33.00
			15	0	20.15	20.34	33.00
		847.5	1	0	20.83	21.02	33.00
			1	8	20.75	20.94	33.00
			1	14	20.64	20.83	33.00
			8	0	20.25	20.44	33.00
			8	7	20.18	20.37	33.00
			15	0	20.01	20.20	33.00

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Channel Bandwidth (MHz)	Modulation	Channel Frequency (MHz)	RB Position & RB Allocation		Measured Average Power (dBm)	ERP (dBm)	Limit (dBm)
			Size	Offset			
5MHz	QPSK	826.5	1	0	21.97	22.16	13.00
			1	13	21.54	21.73	13.00
			1	24	22.21	22.40	13.00
			12	0	20.66	20.85	13.00
			12	13	20.61	20.80	13.00
			25	0	20.54	20.73	13.00
		836.5	1	0	21.77	21.96	13.00
			1	13	21.87	22.06	13.00
			1	24	20.15	20.34	13.00
			12	0	20.21	20.40	13.00
			12	13	20.13	20.32	13.00
			25	0	20.17	20.36	13.00
		846.5	1	0	21.85	22.04	13.00
			1	13	21.64	21.83	13.00
			1	24	21.05	21.24	13.00
			12	0	20.98	21.17	13.00
			12	13	20.72	20.91	13.00
			25	0	20.29	20.48	13.00
	16QAM	826.5	1	0	21.51	21.70	13.00
			1	13	21.11	21.30	13.00
			1	24	21.19	21.38	13.00
			12	0	20.77	20.96	13.00
			12	13	20.37	20.56	13.00
			25	0	20.19	20.38	13.00
		836.5	1	0	21.29	21.48	13.00
			1	13	21.13	21.32	13.00
			1	24	20.94	21.13	13.00
			12	0	20.71	20.90	13.00
			12	13	20.53	20.72	13.00
			25	0	20.48	20.67	13.00
		846.5	1	0	21.27	21.46	13.00
			1	13	21.18	21.37	13.00
			1	24	20.95	21.14	13.00
			12	0	20.54	20.73	13.00
			12	13	20.23	20.42	13.00
			25	0	20.07	20.26	13.00

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Channel Bandwidth (MHz)	Modulation	Channel Frequency (MHz)	RB Position & RB Allocation		Measured Average Power (dBm)	ERP (dBm)	Limit (dBm)
			Size	Offset			
10MHz	QPSK	829.0	1	0	21.94	22.13	33.00
			1	25	22.83	23.02	33.00
			1	49	20.74	20.93	33.00
			25	0	20.13	20.32	33.00
			25	25	21.66	21.85	33.00
			50	0	20.29	20.48	33.00
		836.5	1	0	21.92	22.11	33.00
			1	25	21.24	21.43	33.00
			1	49	20.95	21.14	33.00
			25	0	20.77	20.96	33.00
			25	25	20.43	20.62	33.00
			50	0	20.26	20.45	33.00
		844.0	1	0	21.86	22.05	33.00
			1	25	21.51	21.70	33.00
			1	49	21.67	21.86	33.00
			25	0	21.55	21.74	33.00
			25	25	20.41	20.60	33.00
			50	0	20.22	20.41	33.00
	16QAM	829.0	1	0	21.32	21.51	33.00
			1	25	21.61	21.80	33.00
			1	49	20.64	20.83	33.00
			25	0	20.33	20.52	33.00
			25	25	20.58	20.77	33.00
			50	0	20.03	20.22	33.00
		836.5	1	0	20.59	20.78	33.00
			1	25	20.76	20.95	33.00
			1	49	20.23	20.42	33.00
			25	0	20.19	20.38	33.00
			25	25	20.17	20.36	33.00
			50	0	20.04	20.23	33.00
		844.0	1	0	20.93	21.12	33.00
			1	25	20.8	20.99	33.00
			1	49	20.61	20.80	33.00
			25	0	20.27	20.46	33.00
			25	25	20.18	20.37	33.00
			50	0	20.09	20.28	33.00

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Test Results for GSM/E-GPRS 850MHz:

Band	Channel No.	Average Output Power (dBm)	Peak Output Power (dBm)	e.r.p (dBm)	Limit (dBm)
GSM850	128	31.04	32.40	31.23	38.45
	189	30.93	31.90	31.12	38.45
	251	31.29	32.60	31.48	38.45
EGPRS850	128	25.38	31.30	25.57	38.45
	189	25.33	33.00	25.52	38.45
	251	25.40	32.50	25.59	38.45

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7.3 FIELD STRENGTH OF SPURIOUS RADIATION

Result

Pass

Specification	FCC Part §2.1053, §22.917 (a) RSS-Gen, §6.13; RSS-132, §5.5
Test Method / Procedure	ANSI C63.26-2015
Measurement Bandwidth (RBW)	100 kHz for frequency range < 1GHz 1 MHz for Frequency range >1GHz
Detector Function	Peak
Measuring Distance	3 m
Requirement	The power of any emission outside the authorized frequency range must be attenuated below the transmitting power (P) by a factor of at least $43+10\log(P)$ dB
Test setup	Refer TEST METHODOLOGY

Environmental Conditions:

Temperature: +23.6°C

Voltage: 12V DC through DC supply

Relative Humidity: 62%

KDB Guidelines applied:

All the radiated emission measurements are performed in accordance with common requirement specified in 7 971168 D01 Power Meas License Digital Systems v03r01 and Pre-test site path loss correction factors are used to adjust the EUT emission data in place of two step substitution method (as defined in Annex B of ANSI C63.26-2015)

Note: All the losses are included during measurement and final values are mentioned in the test report. Refer TEST METHODOLOGY for more details

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Test results for Internal Antenna:

Test results for frequency range 9kHz – 30MHz

No emissions found in frequency range 9 kHz to 30 MHz, and measured levels are below 20dB from the limit line, hence not reported

Test results for frequency range 30MHz – 1GHz

Antenna Polarization	Measured Frequency (MHz)	Measured emission (dBm)	Limit (dBm)	Margin (dB)
Vertical	34.02	-77.40	-13.00	-64.40
	50.01	-78.60	-13.00	-65.60
	77.52	-75.10	-13.00	-62.10
	148.50	-81.50	-13.00	-68.50
	261.14	-73.70	-13.00	-60.70
	366.11	-81.20	-13.00	-68.20
	832.04*	-9.95	-	-
	877.64	-63.60	-13.00	-50.60
Horizontal	35.46	-82.80	-13.00	-69.80
	50.01	-85.10	-13.00	-72.10
	79.20	-83.80	-13.00	-70.80
	148.50	-78.70	-13.00	-65.70
	250.01	-73.30	-13.00	-60.30
	346.49	-72.10	-13.00	-59.10
	832.16*	-8.48	-	-
	882.71	-54.70	-13.00	-41.70

Note: * Fundamental Frequency

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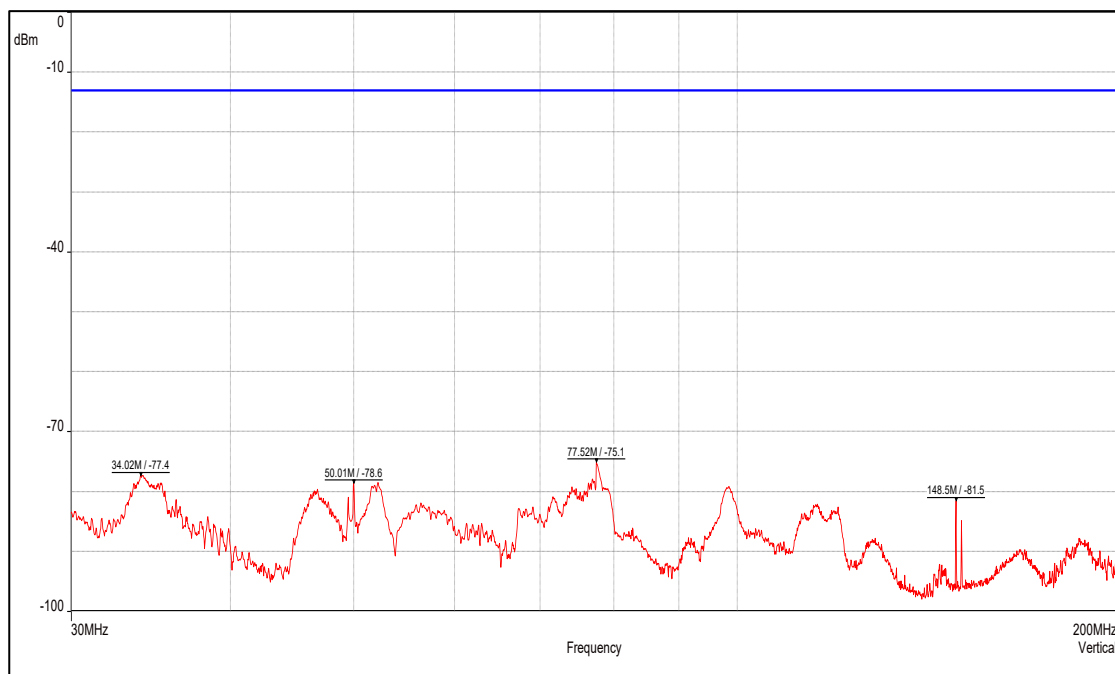
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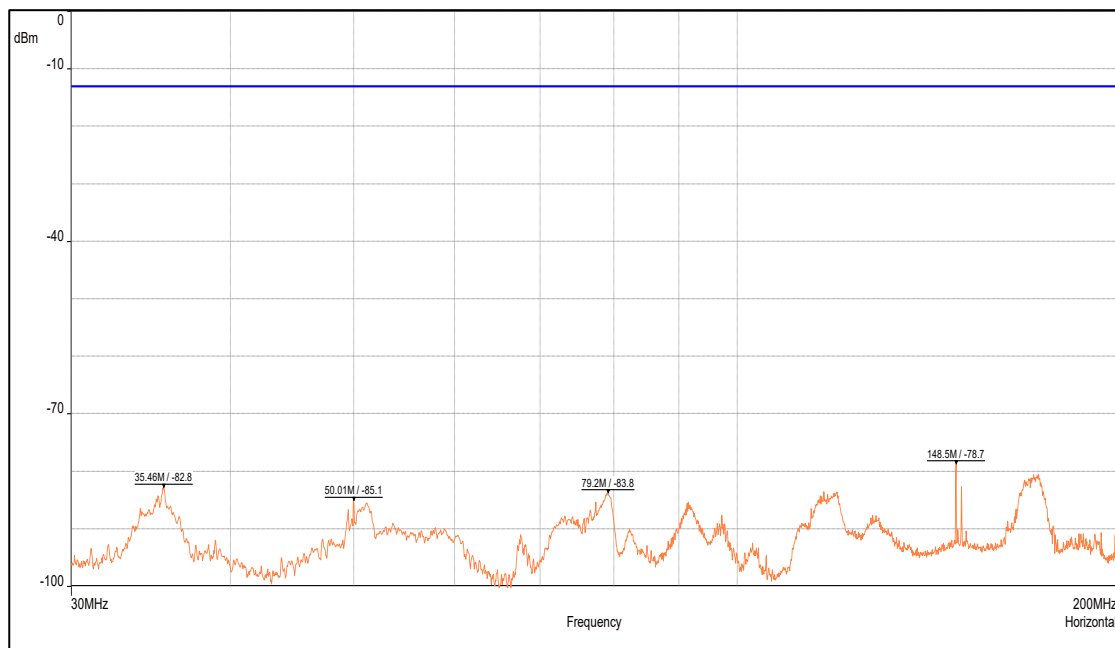
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Plots for frequency range 30MHz to 1GHz

Frequency Range: 30MHz-200MHz_Vertical Polarization



Frequency Range: 30MHz-200MHz_Horizontal Polarization

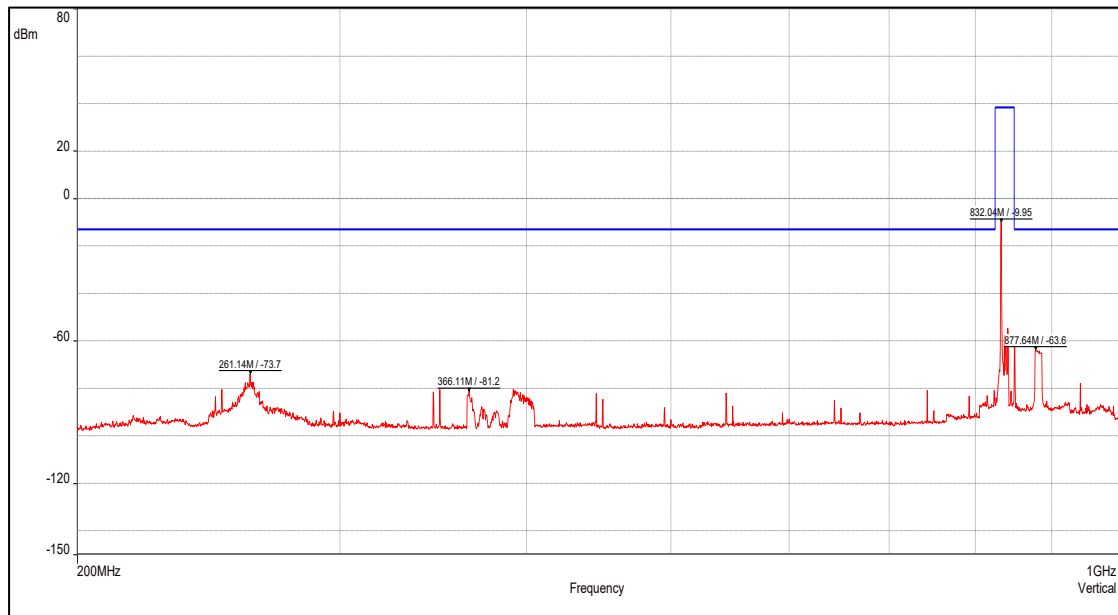


Prüfbericht - Nr.:
Test Report No.:

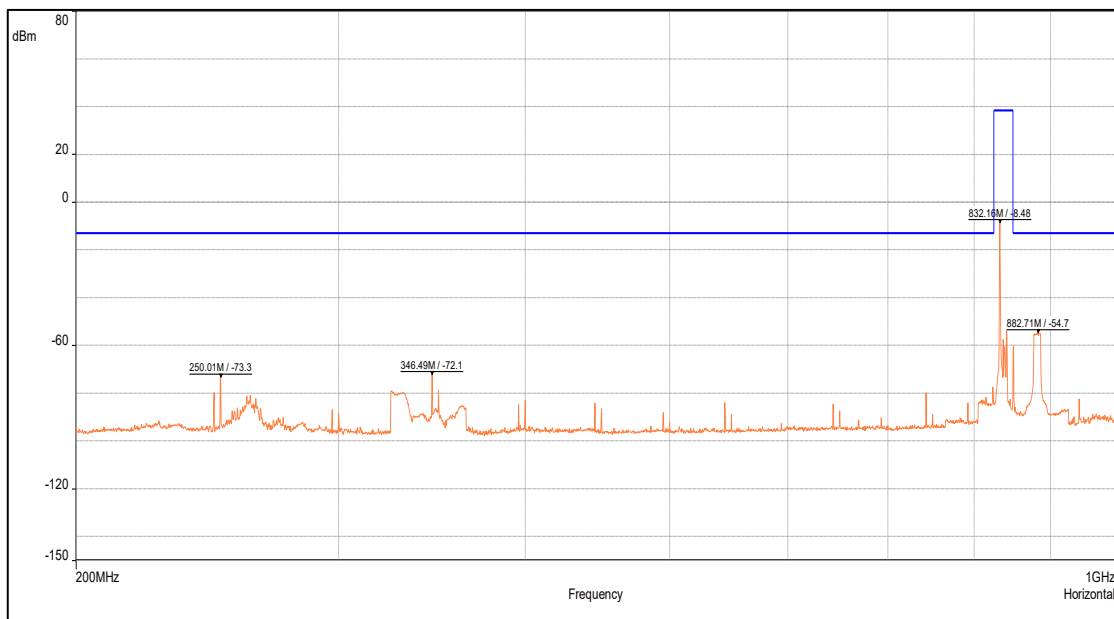
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Frequency Range: 200MHz-1GHz_Vertical Polarization



Frequency Range: 200MHz-1GHz_Horizontal Polarization



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Test results for External Antenna:

Test results for frequency range 9kHz – 30MHz

No emissions found in frequency range 9 kHz to 30 MHz, and measured levels are below 20dB from the limit line, hence not reported

Test results for frequency range 30MHz – 1GHz

Antenna Polarization	Measured Frequency (MHz)	Measured emission (dBm)	Limit (dBm)	Margin (dB)
Vertical	46.92	-72.90	-13.00	-59.90
	78.51	-61.80	-13.00	-48.80
	123.09	-67.00	-13.00	-54.00
	148.50	-80.50	-13.00	-67.50
	261.83	-72.90	-13.00	-59.90
	350.00	-81.50	-13.00	-68.50
	832.10*	-6.36	-	-
	879.29	-64.10	-13.00	-51.10
Horizontal	33.00	-61.30	-13.00	-48.30
	49.62	-65.80	-13.00	-52.80
	61.17	-69.70	-13.00	-56.70
	119.31	-72.00	-13.00	-59.00
	162.54	-76.10	-13.00	-63.10
	262.58	-75.40	-13.00	-62.40
	346.49	-76.50	-13.00	-63.50
	832.07*	-1.31	-	-
	881.00	-54.70	-13.00	-41.70

Note: * Fundamental Frequency

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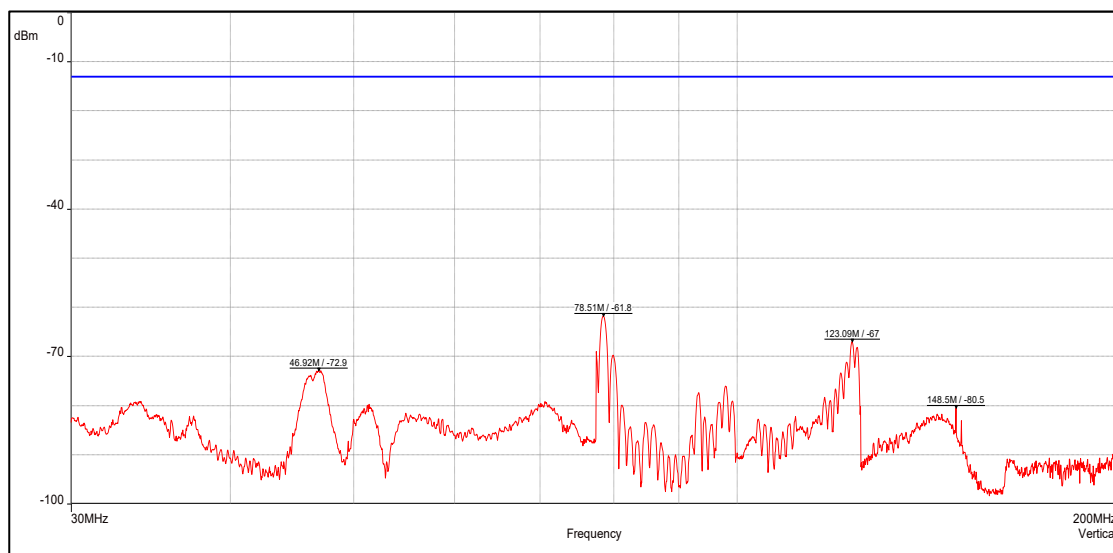
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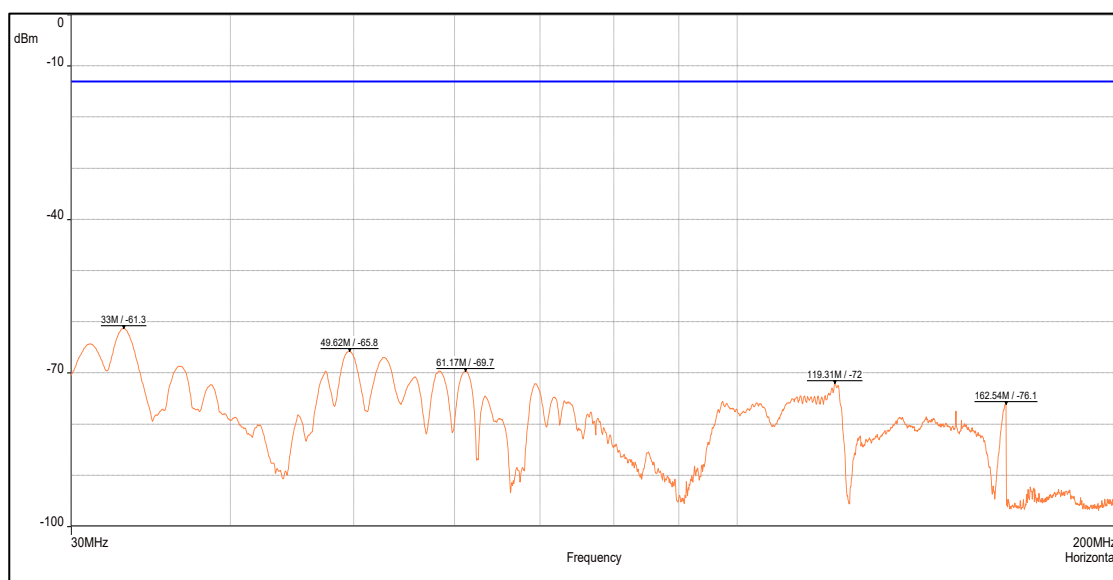
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Plots for frequency range 30MHz to 1GHz

Frequency Range: 30MHz-200MHz_Vertical Polarization



Frequency Range: 30MHz-200MHz_Horizontal Polarization



Prüfbericht - Nr.:

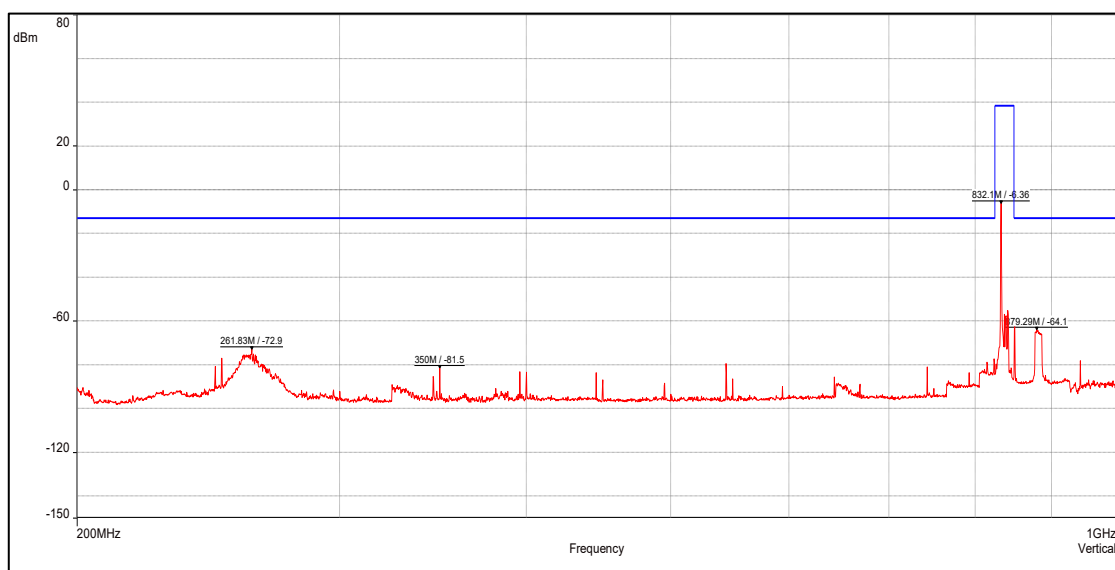
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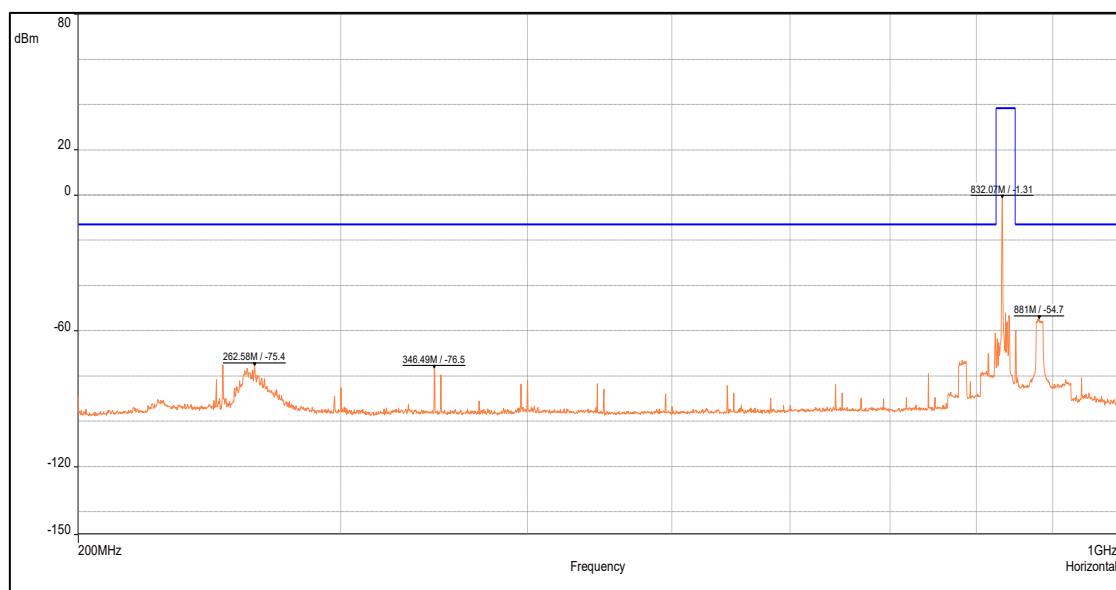
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Frequency Range: 200MHz-1GHz_Vertical Polarization



Frequency Range: 200MHz-1GHz_Horizontal Polarization



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Above 1GHz Test results for Internal Antenna:

Band 5:

Cell Band width	Modulation Technique	RB Size	RB Offset	Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
1.4	16 QAM	3	3	824.7	Vertical	1649.40	-56.81	-13.00	-43.81
						2474.10	-53.31	-13.00	-40.31
						3298.80	-51.25	-13.00	-38.25
					Horizontal	1649.40	-57.04	-13.00	-44.04
						2474.10	-51.54	-13.00	-38.54
						3298.80	-51.15	-13.00	-38.15
		3	0	836.5	Vertical	1673.00	-60.16	-13.00	-47.16
						2509.50	-50.27	-13.00	-37.27
						3346.00	-55.86	-13.00	-42.86
					Horizontal	1673.00	-59.16	-13.00	-46.16
						2509.50	-55.91	-13.00	-42.91
						3346.00	-55.38	-13.00	-42.38
		3	0	848.3	Vertical	1696.60	-60.63	-13.00	-47.63
						2544.90	-56.87	-13.00	-43.87
						3393.20	-54.95	-13.00	-41.95
					Horizontal	1696.60	-59.12	-13.00	-46.12
						2544.90	-56.66	-13.00	-43.66
						3393.20	-55.25	-13.00	-42.25
3	QPSK	15	0	825.5	Vertical	1651.00	-59.74	-13.00	-46.74
						2476.50	-53.97	-13.00	-40.97
						3302.00	-54.09	-13.00	-41.09
					Horizontal	1651.00	-59.30	-13.00	-46.30
						2476.50	-56.90	-13.00	-43.90
						3302.00	-54.91	-13.00	-41.91
	16 QAM	1	14	836.5	Vertical	1673.00	-60.12	-13.00	-47.12
						2509.50	-56.40	-13.00	-43.40
						3346.00	-52.30	-13.00	-39.30
					Horizontal	1673.00	-60.18	-13.00	-47.18
						2509.50	-56.93	-13.00	-43.93
						3346.00	-51.97	-13.00	-38.97
	QPSK	15	0	847.5	Vertical	1695.00	-60.35	-13.00	-47.35
						2542.50	-57.26	-13.00	-44.26
						3390.00	-55.98	-13.00	-42.98
					Horizontal	1695.00	-58.30	-13.00	-45.30
						2542.50	-56.94	-13.00	-43.94
						3390.00	-55.30	-13.00	-42.30

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Band 5:

Cell Band width	Modulation Technique	RB Size	RB Offset	Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5	QPSK	25	0	826.5	Vertical	1653.00	-59.72	-13.00	-46.72
						2479.50	-56.31	-13.00	-43.31
						3306.00	-54.30	-13.00	-41.30
					Horizontal	1653.00	-59.57	-13.00	-46.57
						2479.50	-56.45	-13.00	-43.45
						3306.00	-54.90	-13.00	-41.90
		25	0	836.5	Vertical	1673.00	-59.75	-13.00	-46.75
						2509.50	-56.75	-13.00	-43.75
						3346.00	-54.54	-13.00	-41.54
					Horizontal	1673.00	-59.98	-13.00	-46.98
						2509.50	-56.64	-13.00	-43.64
						3346.00	-54.87	-13.00	-41.87
		25	0	846.5	Vertical	1693.00	-60.17	-13.00	-47.17
						2539.50	-56.56	-13.00	-43.56
						3386.00	-55.32	-13.00	-42.32
					Horizontal	1693.00	-59.45	-13.00	-46.45
						2539.50	-57.16	-13.00	-44.16
						3386.00	-55.00	-13.00	-42.00
10	16 QAM	50	0	829	Vertical	1658.00	-60.35	-13.00	-47.35
						2487.00	-56.61	-13.00	-43.61
						3316.00	-55.81	-13.00	-42.81
					Horizontal	1658.00	-59.33	-13.00	-46.33
						2487.00	-59.37	-13.00	-46.37
						3316.00	-56.16	-13.00	-43.16
		50	0	836.5	Vertical	1673.00	60.30	-13.00	73.30
						2509.50	-57.32	-13.00	-44.32
						3346.00	-55.83	-13.00	-42.83
					Horizontal	1673.00	-59.69	-13.00	-46.69
						2509.50	-56.01	-13.00	-43.01
						3346.00	-55.52	-13.00	-42.52
		50	0	844	Vertical	1688.00	-62.36	-13.00	-49.36
						2532.00	-56.34	-13.00	-43.34
						3376.00	-55.77	-13.00	-42.77
					Horizontal	1688.00	-60.14	-13.00	-47.14
						2532.00	-56.47	-13.00	-43.47
						3376.00	-54.99	-13.00	-41.99

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Test Results for GSM/E-GPRS:

Mode	Antenna Polarization	Channel Frequency (MHz)	Measured Frequency (MHz)	Measured emission (dBm)	Limit (dBm)	Margin (dB)
GSM 850MHz	Vertical	824.20	1648.4	-58.86	-13.00	-45.86
			2472.6	-54.14	-13.00	-41.14
	Horizontal		1648.40	-48.66	-13.00	-35.66
			2472.60	-56.38	-13.00	-43.38
	Vertical	836.40	1672.8	-47.35	-13.00	-34.35
			2509.2	-51.59	-13.00	-38.59
	Horizontal		3345.6	-49.31	-13.00	-36.31
			4182.0	-56.32	-13.00	-43.32
	Vertical	848.80	1697.60	-48.21	-13.00	-35.21
			2546.40	-45.17	-13.00	-32.17
	Horizontal		1697.60	-46.30	-13.00	-33.30
			2546.40	-56.63	-13.00	-43.63
EGPRS 850MHz	Vertical	824.20	1648.4	-49.11	-13.00	-36.11
			2472.6	-53.08	-13.00	-40.08
	Horizontal		1648.40	-54.03	-13.00	-41.03
			2472.60	-52.83	-13.00	-39.83
	Vertical	836.40	1672.8	-49.42	-13.00	-36.42
			2509.2	-52.44	-13.00	-39.44
	Horizontal		3345.6	-48.76	-13.00	-35.76
			4182.0	-53.09	-13.00	-40.09
	Vertical	848.80	1697.60	-51.10	-13.00	-38.10
			2546.40	-52.13	-13.00	-39.13
	Horizontal		1697.60	-47.05	-13.00	-34.05
			2546.40	-55.73	-13.00	-42.73

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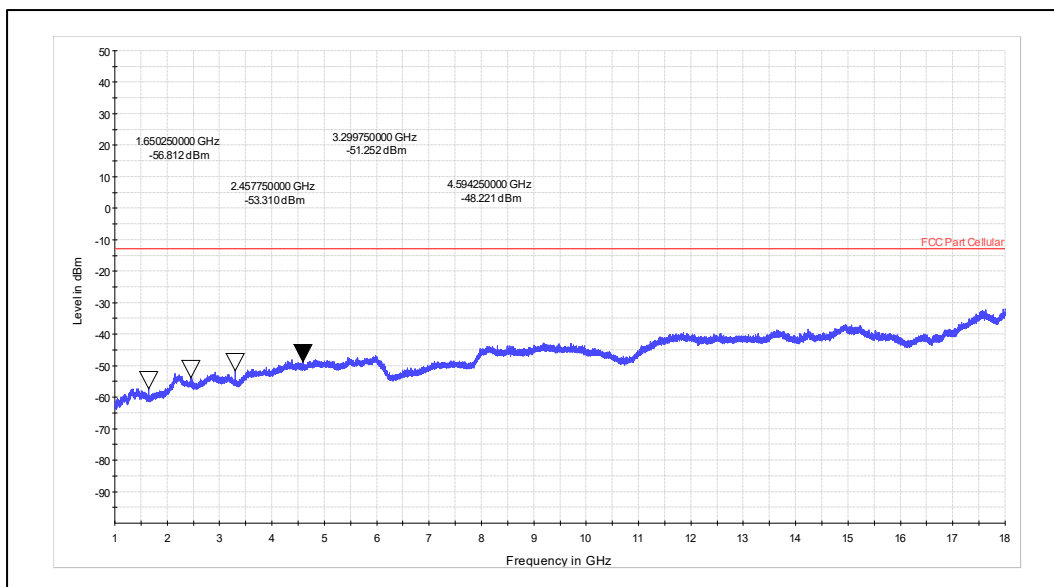
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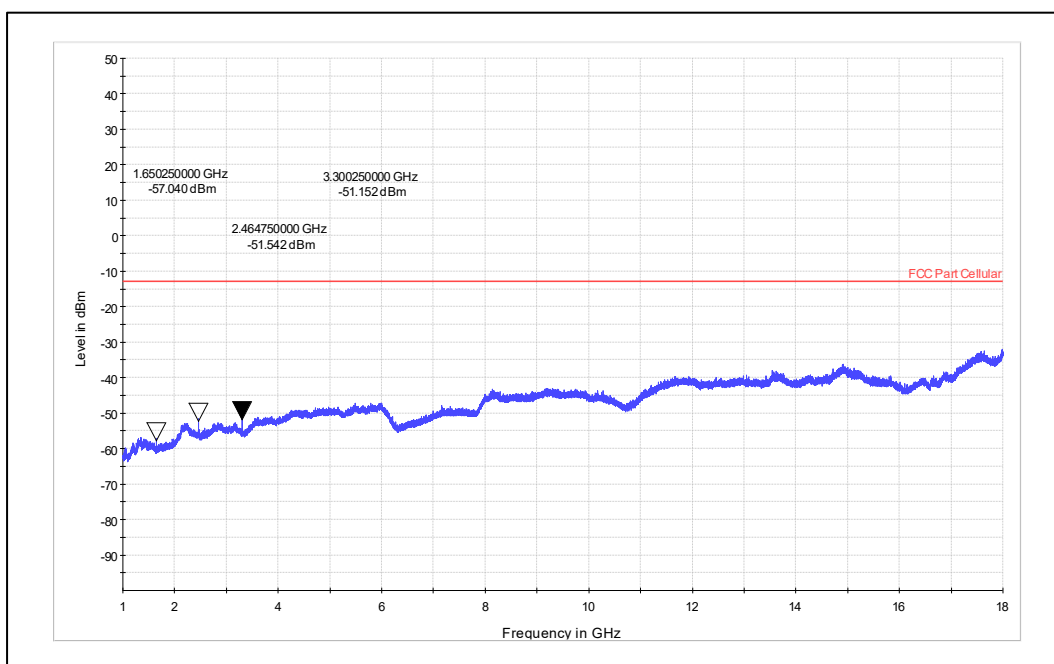
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Test Plots:

Band-5_Frequency- 824.7MHz_CB-1.4MHz_3RB#3_16QAM_1-18GHz_Vertical



Band-5_Frequency- 824.7MHz_CB-1.4MHz_3RB#3_16QAM_1-18GHz_Horizontal

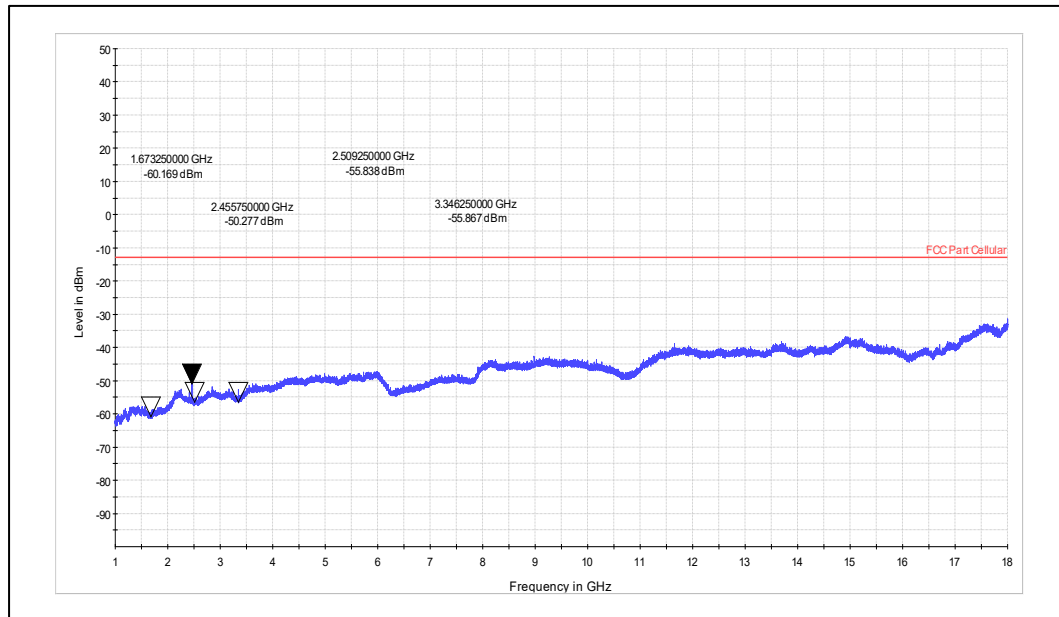


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Test Report No.:

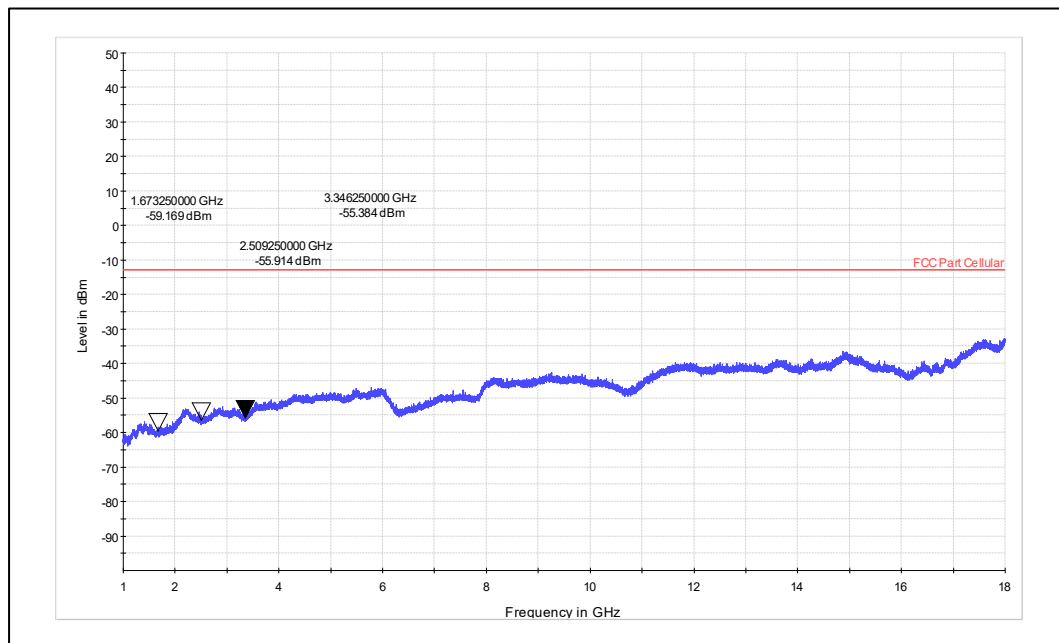
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Band-5_Frequency-836.5_CB-1.4_3RB#0_16-QAM_1-18GHz_Vertical



Band-5_Frequency-836.5_CB-1.4_3RB#0_16-QAM_1-18GHz_Horizontal



Prüfbericht - Nr.:

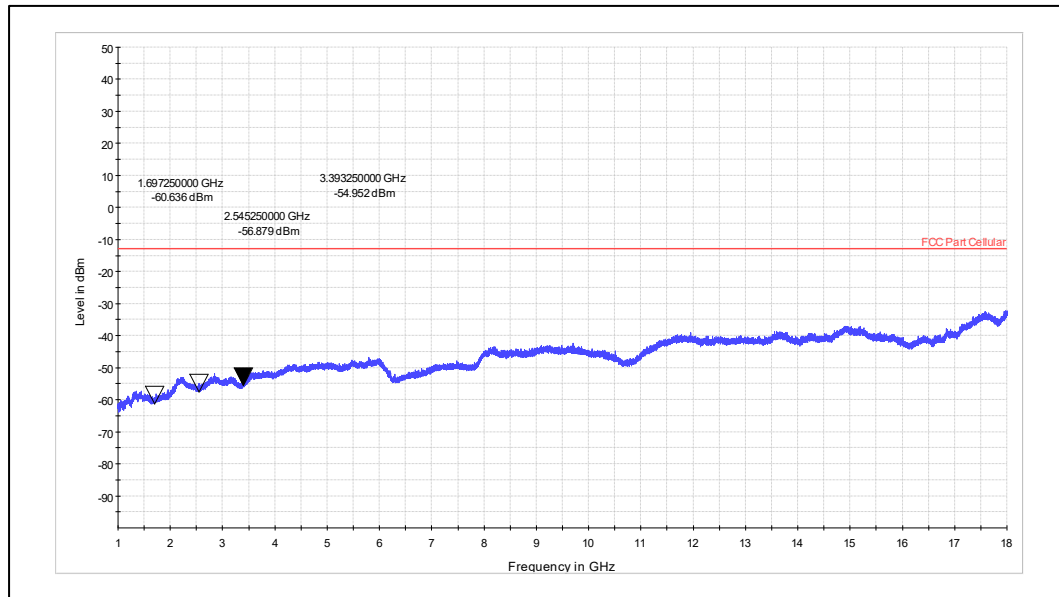
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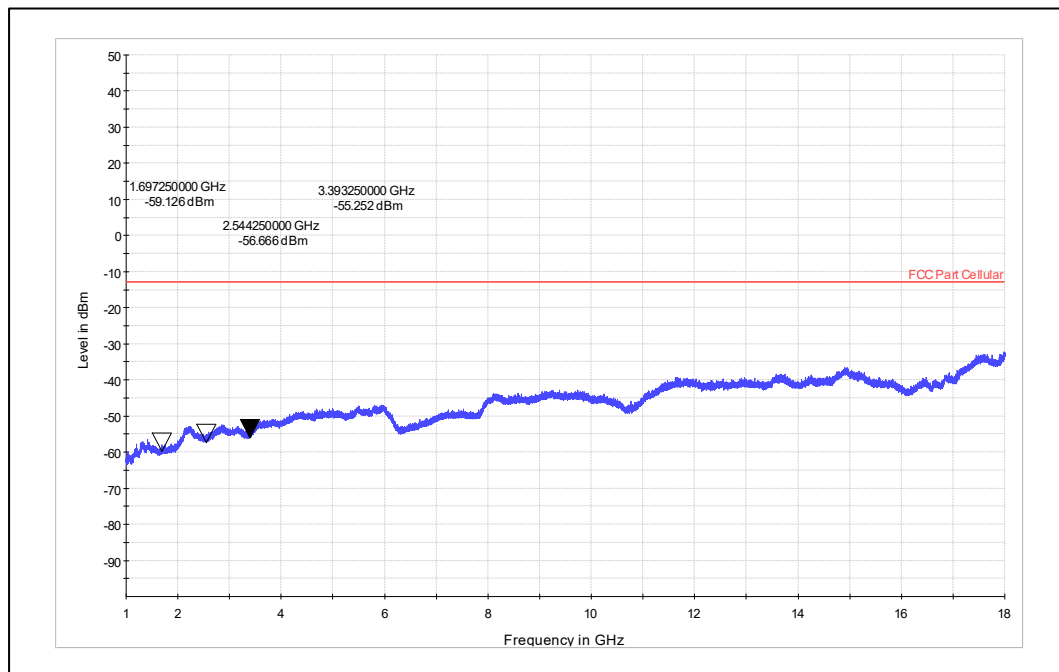
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Band-5_Frequency-848.3_CB-1.4_3RB#0_QPSK_1-18GHz_Vertical



Band-5_Frequency-848.3_CB-1.4_3RB#0_QPSK_1-18GHz_Horizontal

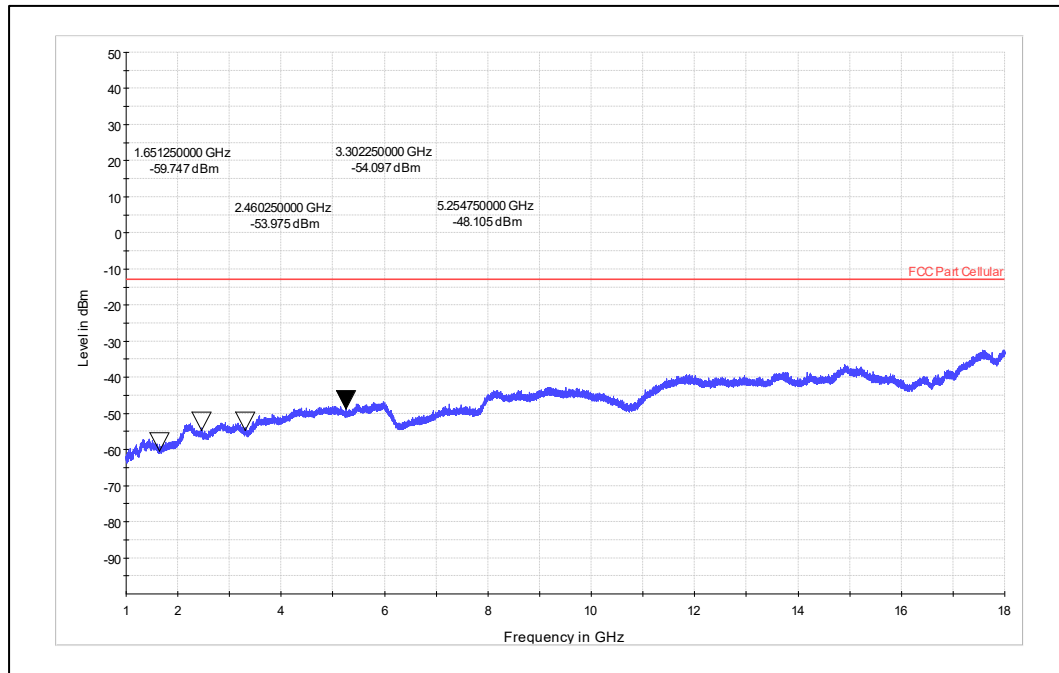


Prüfbericht - Nr.:
Test Report No.:

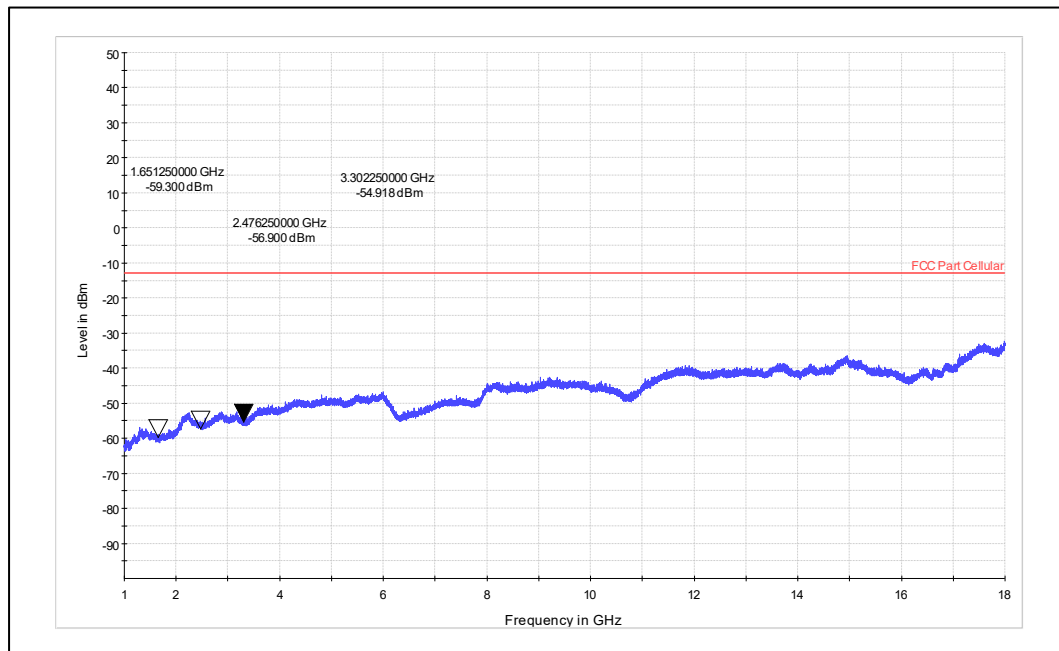
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Band-5_Frequency-825.5_CB-3_15RB#0_QPSK_1-18GHz_Vertical



Band-5_Frequency-825.5_CB-3_15RB#0_QPSK_1-18GHz_Horizontal



Prüfbericht - Nr.:

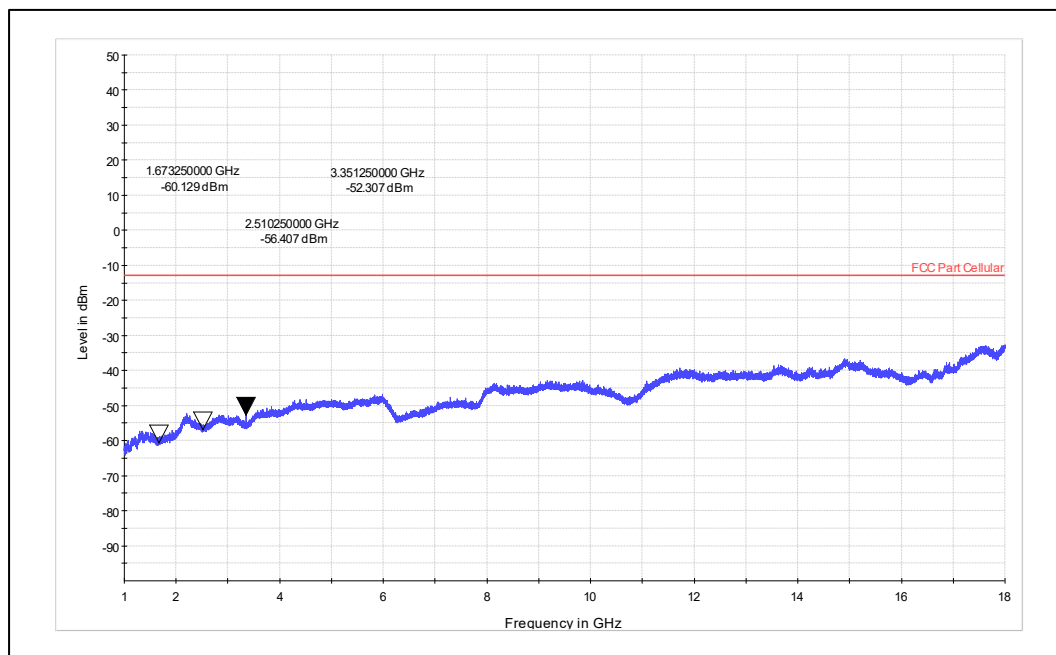
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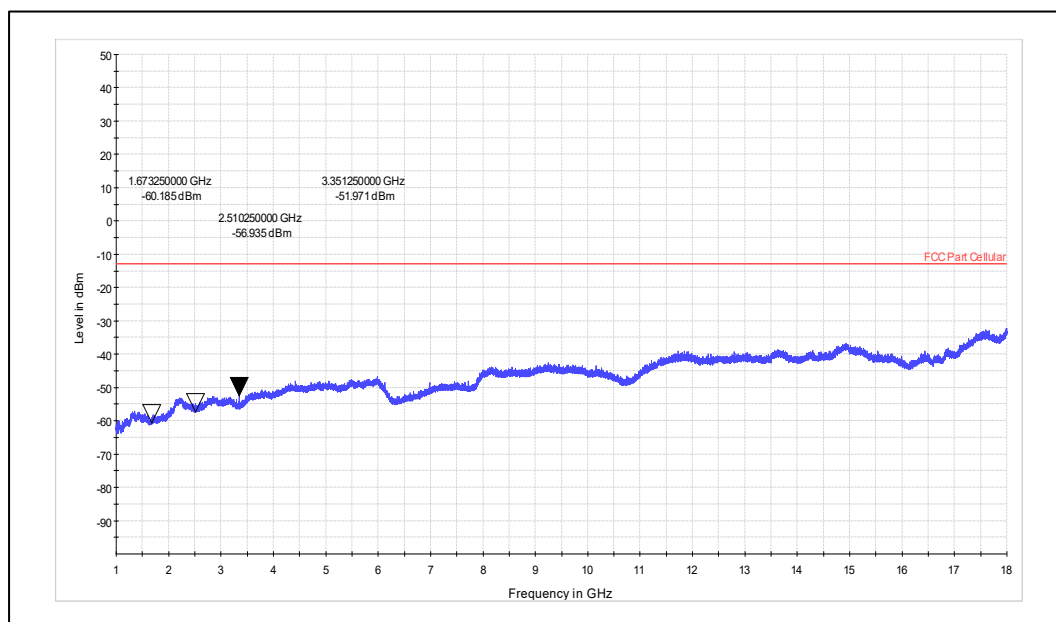
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Band-5_Frequency-836.5_CB-3_1RB#14_16-QAM_1-18GHz_Vertical



Band-5_Frequency-836.5_CB-3_1RB#14_16-QAM_1-18GHz_Horizontal



Prüfbericht - Nr.:

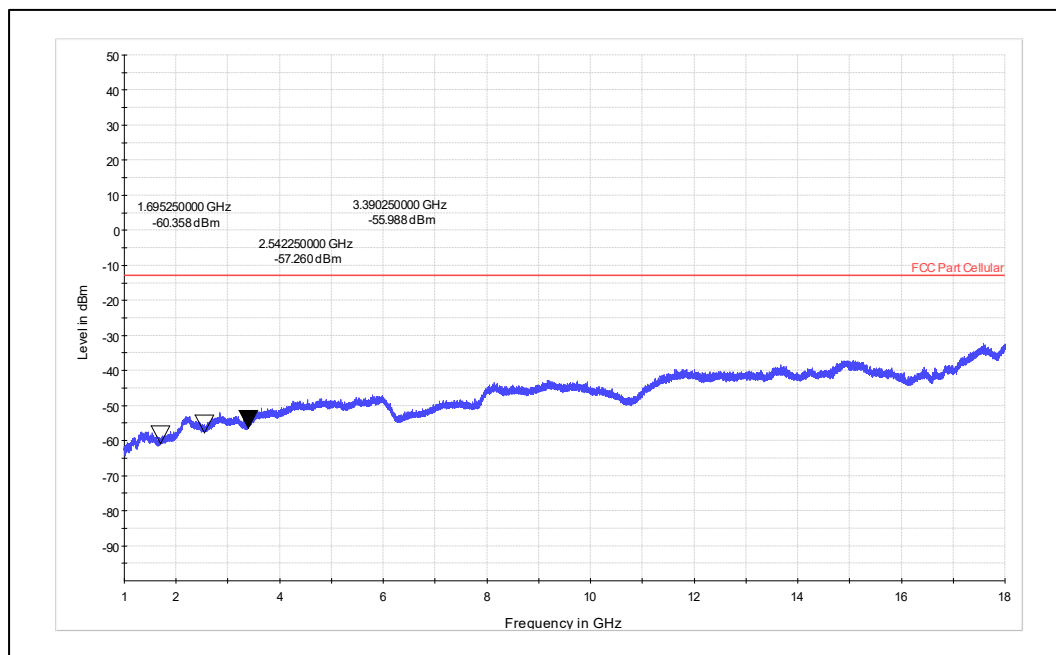
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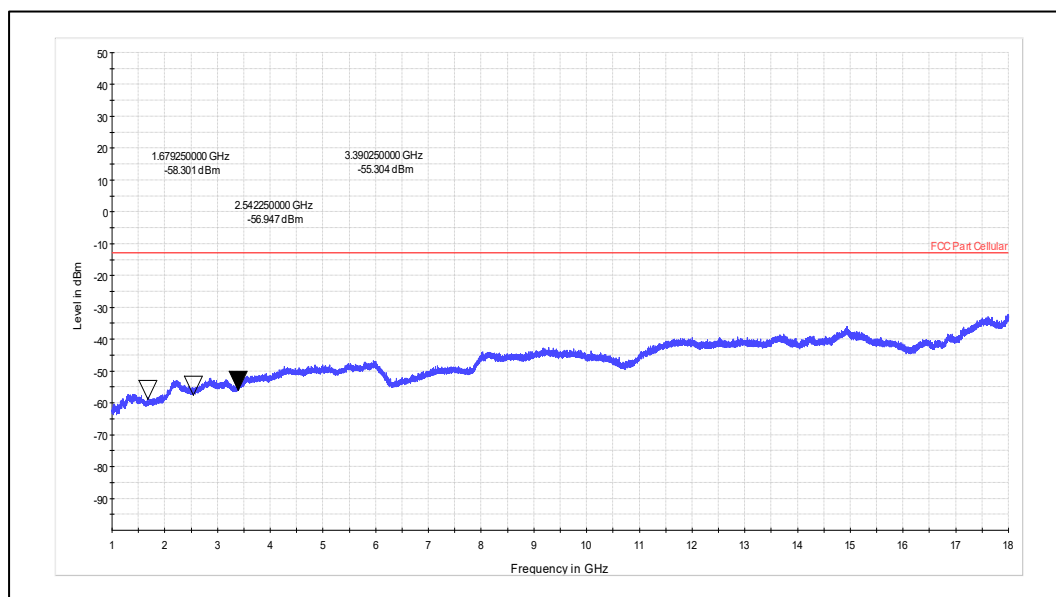
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Band-5_Frequency-847.5_CB-3_15RB#0_QPSK_1-18GHz_Vertical



Band-5_Frequency-847.5_CB-3_15RB#0_QPSK_1-18GHz_Horizontal



Prüfbericht - Nr.:

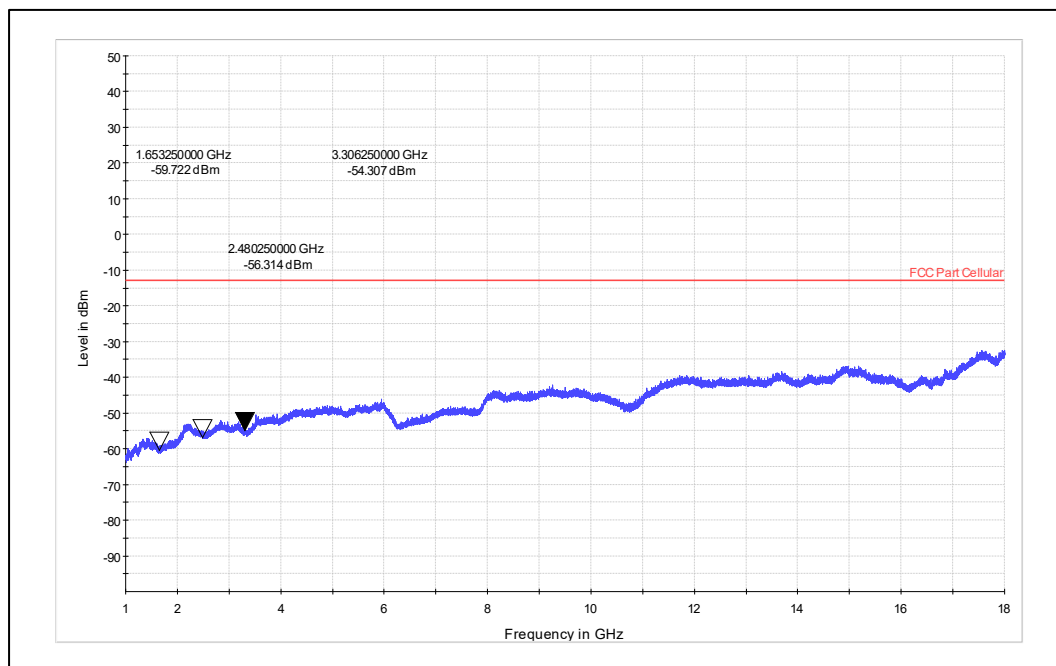
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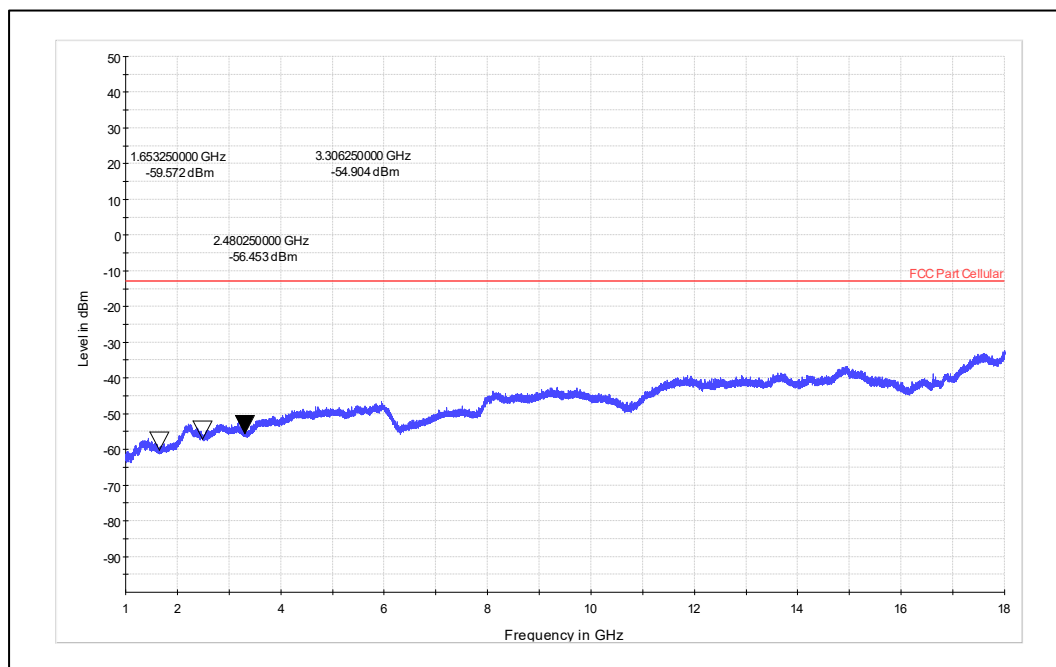
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Band-5_Frequency-826.5_CB-5_25RB#0_QPSK_1-18GHz_Vertical



Band-5_Frequency-826.5_CB-5_25RB#0_QPSK_1-18GHz_Horizontal



Prüfbericht - Nr.:

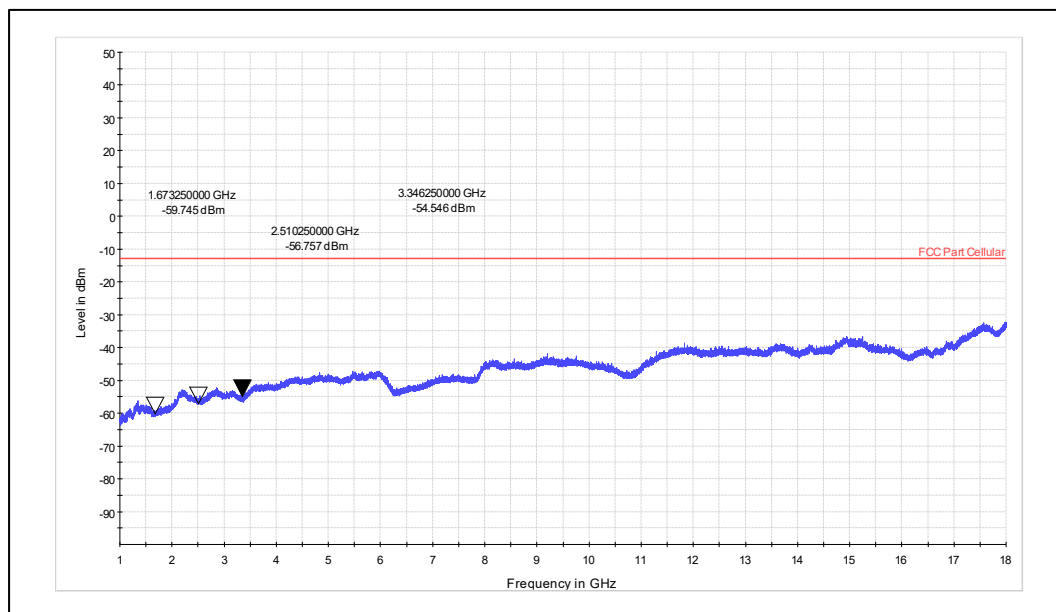
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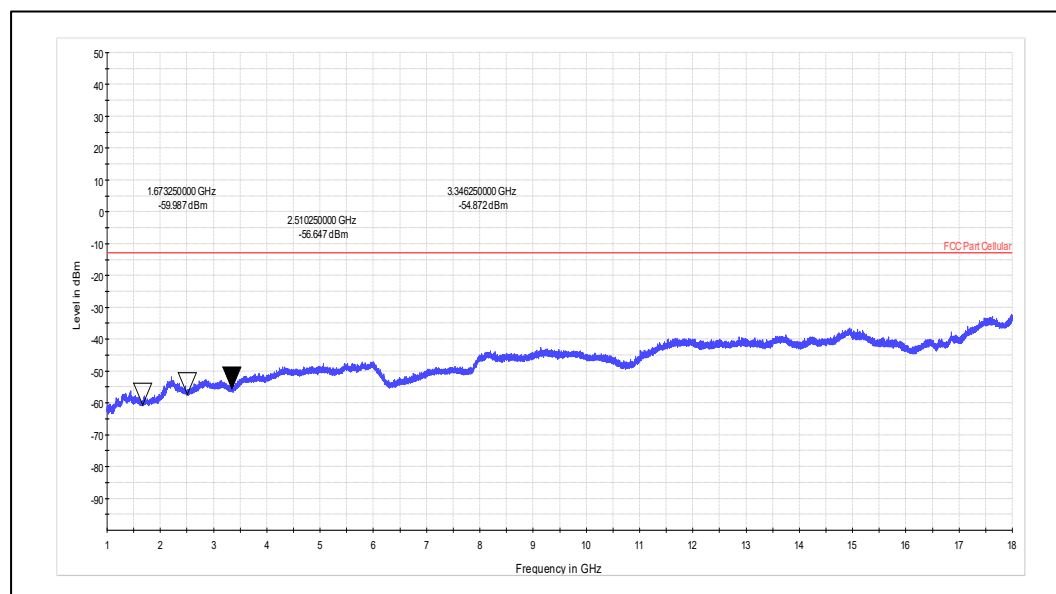
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Band-5_Frequency-836.5_CB-5_25RB#0_QPSK_1-18GHz_Vertical



Band-5_Frequency-836.5_CB-5_25RB#0_QPSK_1-18GHz_Horizontal

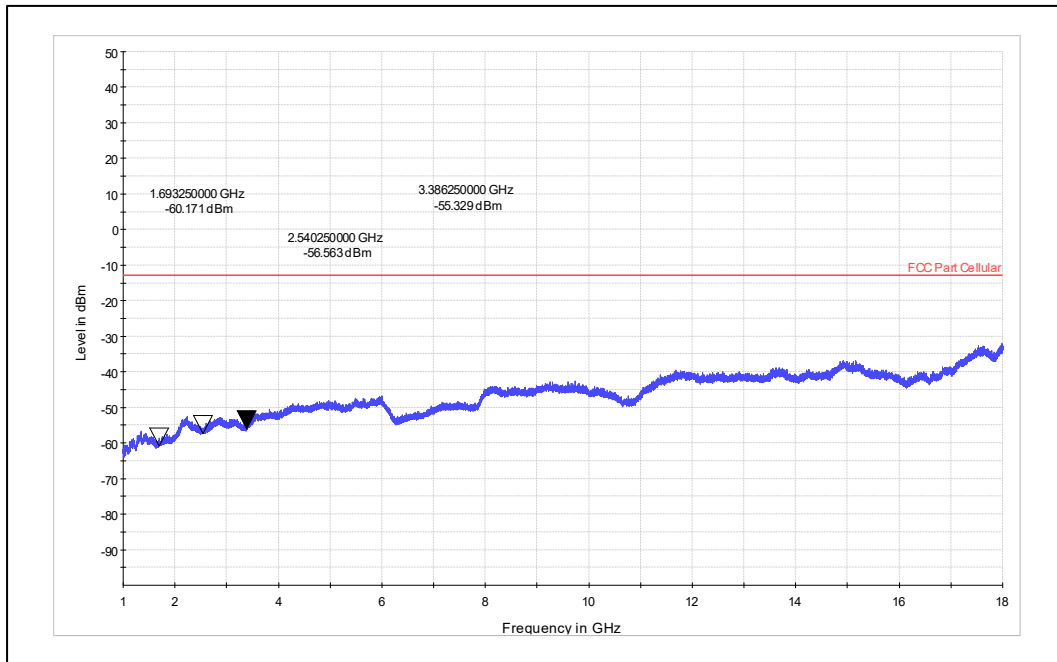


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Test Report No.:

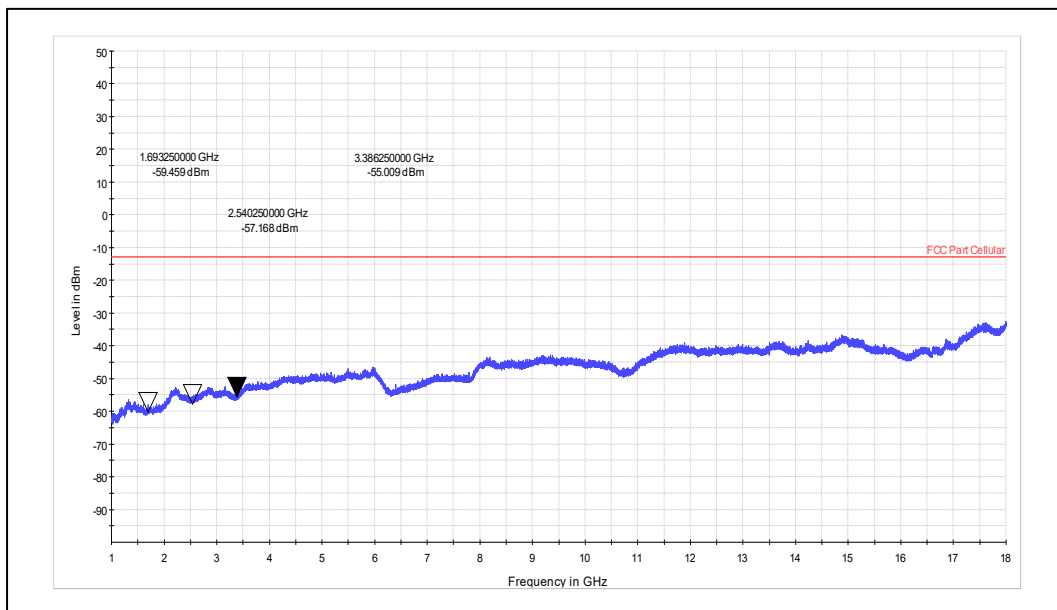
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Band-5_Frequency-846.5_CB-5_25RB#0_QPSK_1-18GHz_Vertical



Band-5_Frequency-846.4_CB-5_25RB#0_QPSK_1-18GHz_Horizontal

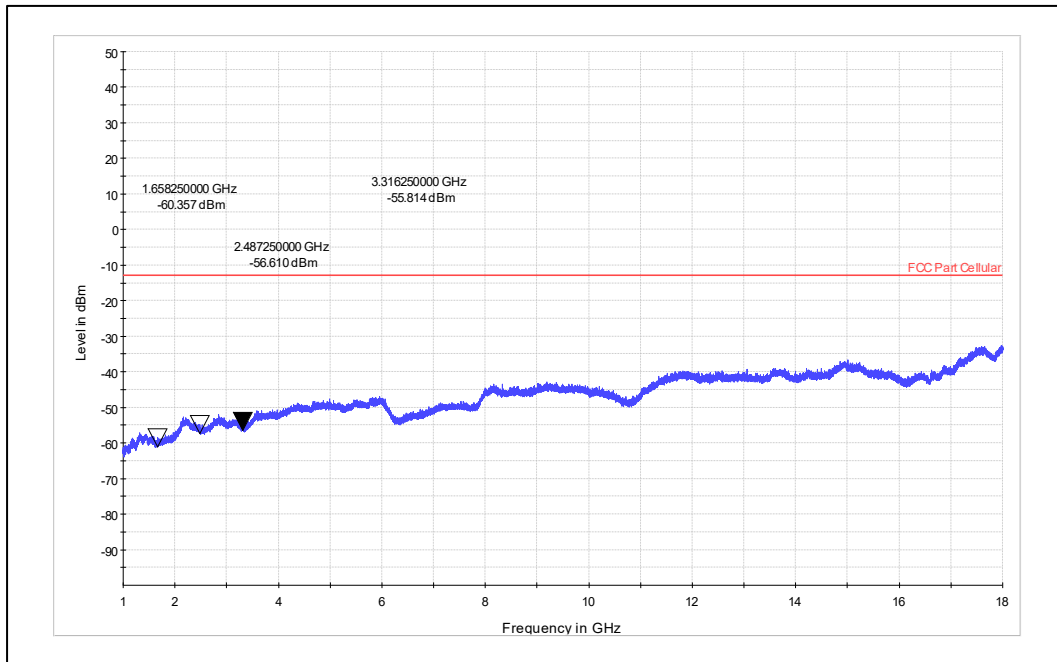


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Test Report No.:

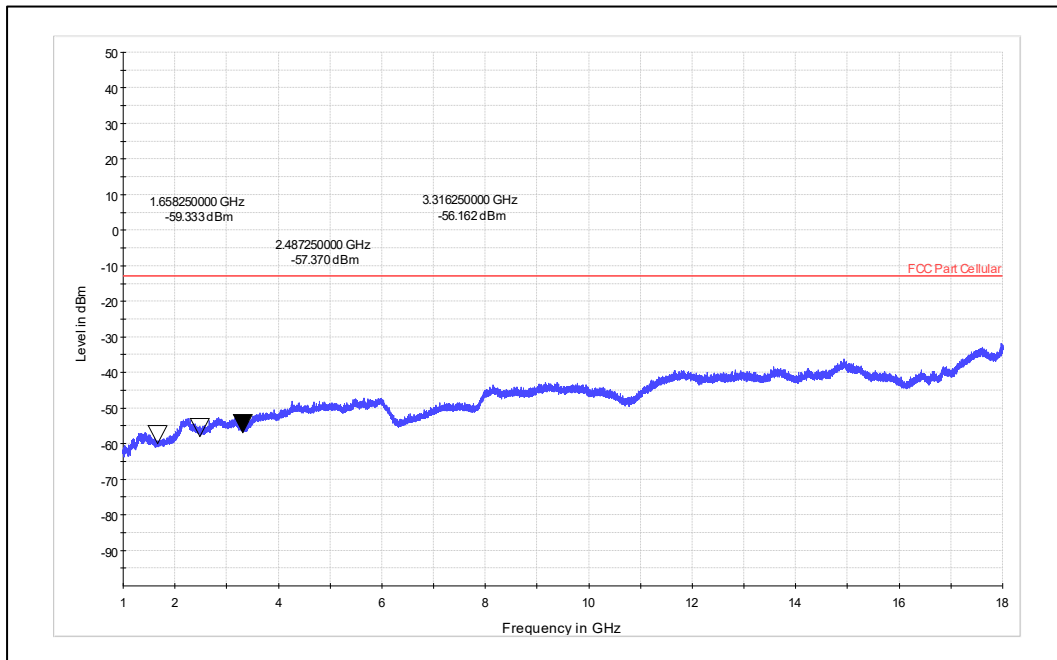
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Band-5_Frequency-829_CB-10_50RB#0_16-QAM_1-18GHz_Vertical



Band-5_Frequency-829_CB-10_50RB#0_16-QAM_1-18GHz_Horizontal



Prüfbericht - Nr.:

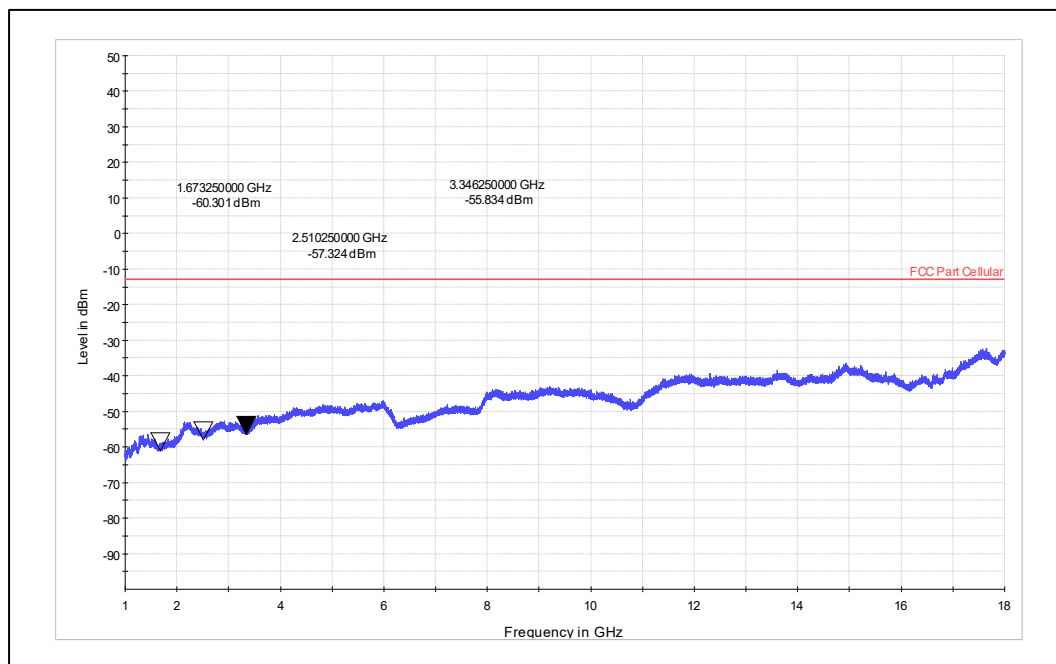
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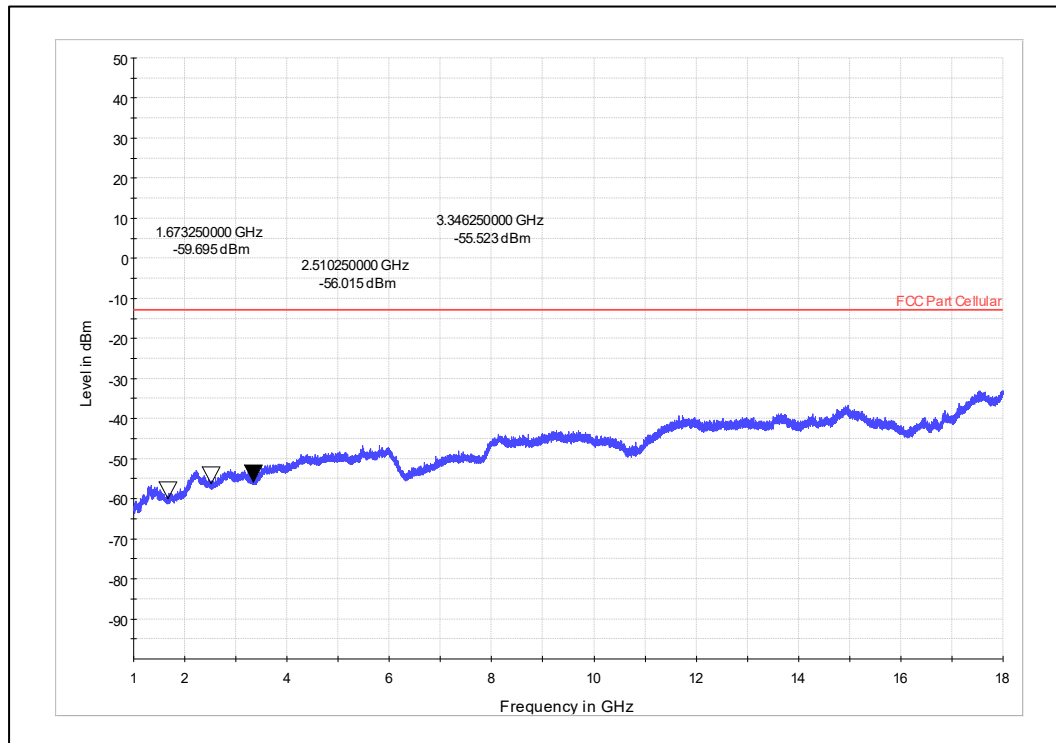
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Band-5_Frequency-836.5_CB-10_50RB#0_16QAM_1-18GHz_Vertical



Band-5_Frequency-836.5_CB-10_50RB#0_16QAM_1-18GHz_Horizontal



Prüfbericht - Nr.:

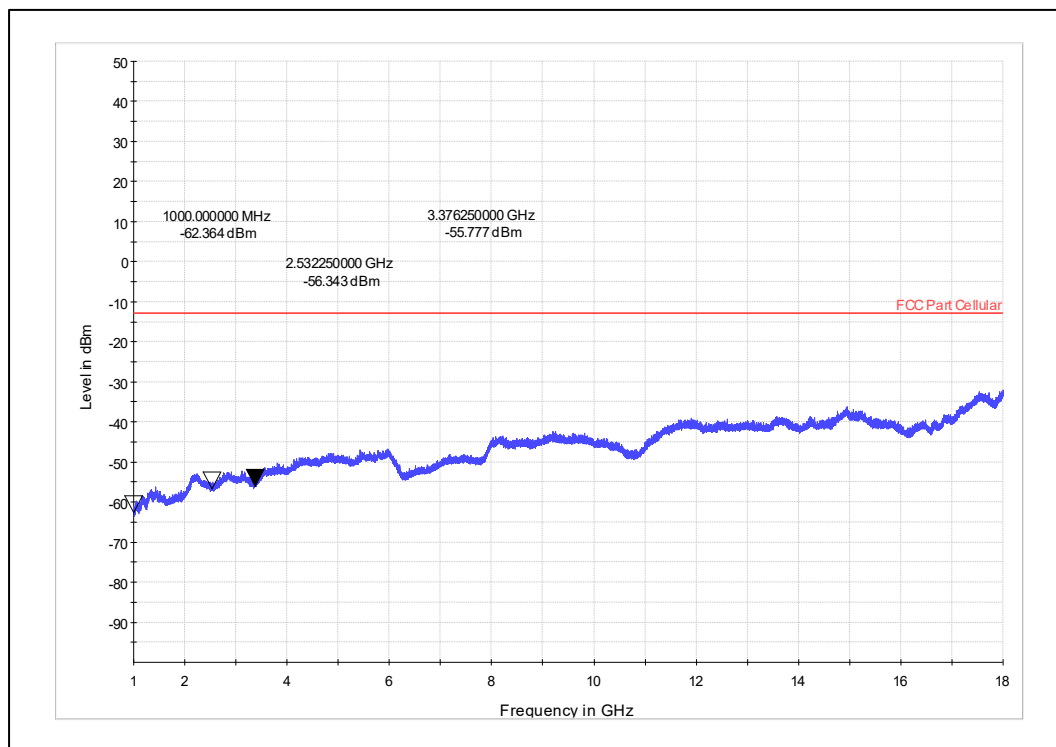
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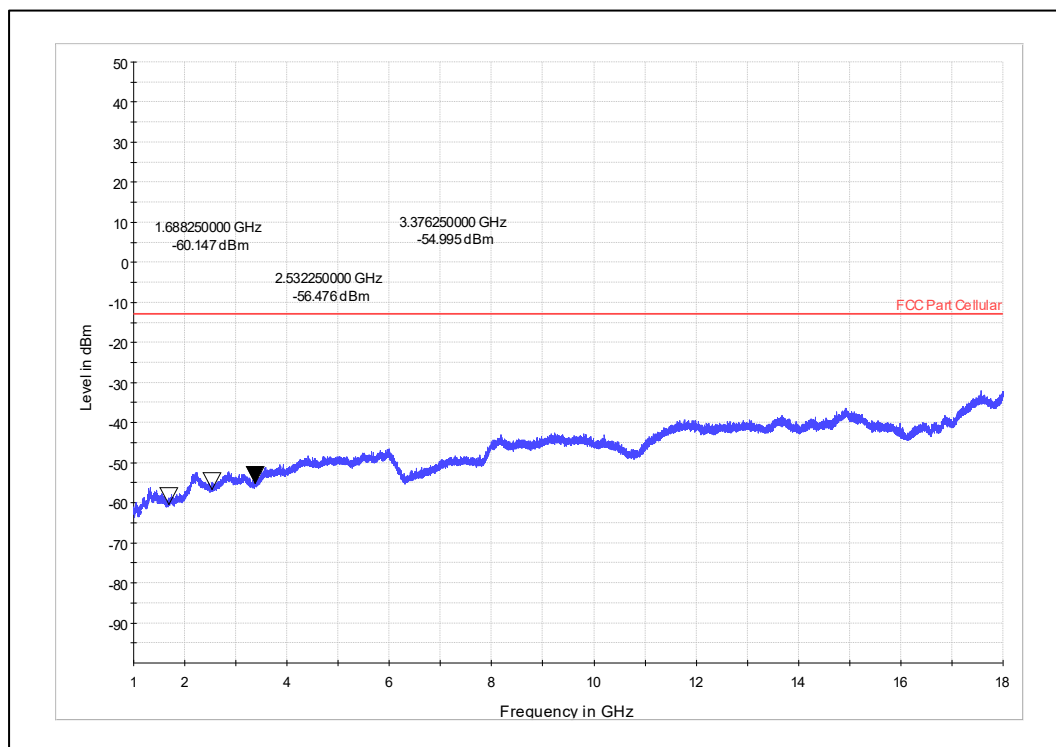
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Band-5_Frequency-844_CB-10_50RB#0_16-QAM_1-18GHz_Vertical



Band-5_Frequency-844_CB-10_50RB#0_16-QAM_1-18GHz_Horizontal



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Above 1GHz Test results for External Antenna:

Band 5:

Cell Band width	Modulation Technique	RB Size	RB Offset	Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
1.4	16 QAM	3	3	824.7	Vertical	1649.40	-62.08	-13.00	-49.08
						2474.10	-57.83	-13.00	-44.83
						3298.80	-55.64	-13.00	-42.64
					Horizontal	1649.40	-53.54	-13.00	-40.54
						2474.10	-59.36	-13.00	-46.36
						3298.80	-56.10	-13.00	-43.10
		3	0	836.5	Vertical	1673.00	-64.37	-13.00	-51.37
						2509.50	-56.52	-13.00	-43.52
						3346.00	-55.84	-13.00	-42.84
					Horizontal	1673.00	-60.08	-13.00	-47.08
						2509.50	-54.78	-13.00	-41.78
						3346.00	-55.36	-13.00	-42.36
		3	0	848.3	Vertical	1696.60	-57.36	-13.00	-44.36
						2544.90	-59.95	-13.00	-46.95
						3393.20	-57.20	-13.00	-44.20
					Horizontal	1696.60	-50.47	-13.00	-37.47
						2544.90	-57.89	-13.00	-44.89
						3393.20	-57.92	-13.00	-44.92
3	QPSK	15	0	825.5	Vertical	1651.00	-63.81	-13.00	-50.81
						2476.50	-59.27	-13.00	-46.27
						3302.00	-56.65	-13.00	-43.65
					Horizontal	1651.00	-60.32	-13.00	-47.32
						2476.50	-58.40	-13.00	-45.40
						3302.00	-57.52	-13.00	-44.52
	16 QAM	1	14	836.5	Vertical	1673.00	-64.74	-13.00	-51.74
						2509.50	-59.45	-13.00	-46.45
						3346.00	-58.06	-13.00	-45.06
					Horizontal	1673.00	-62.99	-13.00	-49.99
						2509.50	-55.73	-13.00	-42.73
						3346.00	-56.85	-13.00	-43.85
	QPSK	15	0	847.5	Vertical	1695.00	-61.09	-13.00	-48.09
						2542.50	-59.83	-13.00	-46.83
						3390.00	-57.49	-13.00	-44.49
					Horizontal	1695.00	-55.42	-13.00	-42.42
						2542.50	-59.00	-13.00	-46.00
						3390.00	-57.94	-13.00	-44.94

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Band 5:

Cell Band width	Modulation Technique	RB Size	RB Offset	Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5	QPSK	25	0	826.5	Vertical	1653.00	-65.01	-13.00	-52.01
						2479.50	-59.92	-13.00	-46.92
						3306.00	-57.96	-13.00	-44.96
					Horizontal	1653.00	-58.80	-13.00	-45.80
						2479.50	-57.52	-13.00	-44.52
						3306.00	-57.80	-13.00	-44.80
		25	0	836.5	Vertical	1673.00	-64.91	-13.00	-51.91
						2509.50	-59.86	-13.00	-46.86
						3346.00	-57.45	-13.00	-44.45
					Horizontal	1673.00	-64.07	-13.00	-51.07
						2509.50	-58.85	-13.00	-45.85
						3346.00	-57.35	-13.00	-44.35
10	16 QAM	25	0	846.5	Vertical	1693.00	-62.12	-13.00	-49.12
						2539.50	-59.68	-13.00	-46.68
						3386.00	-58.22	-13.00	-45.22
					Horizontal	1693.00	-56.99	-13.00	-43.99
						2539.50	-59.31	-13.00	-46.31
						3386.00	-57.80	-13.00	-44.80
		50	0	829	Vertical	1658.00	-65.13	-13.00	-52.13
						2487.00	-60.20	-13.00	-47.20
						3316.00	-58.07	-13.00	-45.07
					Horizontal	1658.00	-62.39	-13.00	-49.39
						2487.00	-59.11	-13.00	-46.11
						3316.00	-58.23	-13.00	-45.23
		50	0	836.5	Vertical	1673.00	-63.92	-13.00	-50.92
						2509.50	-58.89	-13.00	-45.89
						3346.00	-57.55	-13.00	-44.55
					Horizontal	1673.00	-64.98	-13.00	-51.98
						2509.50	-59.51	-13.00	-46.51
						3346.00	-57.82	-13.00	-44.82
		50	0	844	Vertical	1688.00	-63.47	-13.00	-50.47
						2532.00	-59.39	-13.00	-46.39
						3376.00	-57.19	-13.00	-44.19
					Horizontal	1688.00	-58.70	-13.00	-45.70
						2532.00	-59.67	-13.00	-46.67
						3376.00	-57.34	-13.00	-44.34

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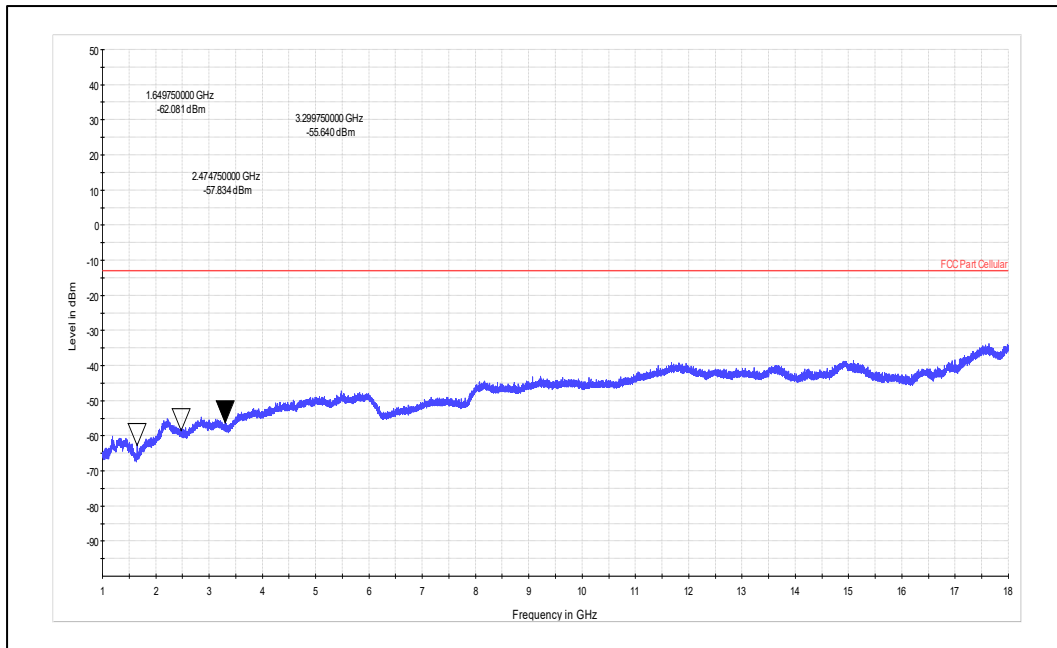
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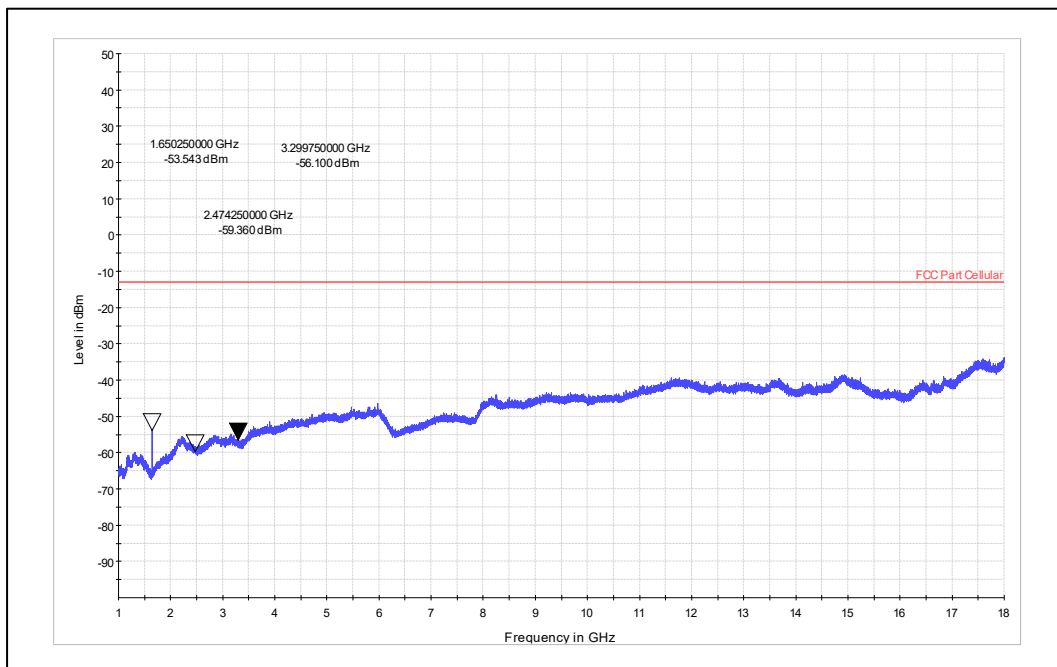
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Test Plots:

Band-5_Frequency- 824.7MHz_CB-1.4MHz_3RB#3_16QAM_1-18GHz_Vertical



Band-5_Frequency- 824.7MHz_CB-1.4MHz_3RB#3_16QAM_1-18GHz_Horizontal

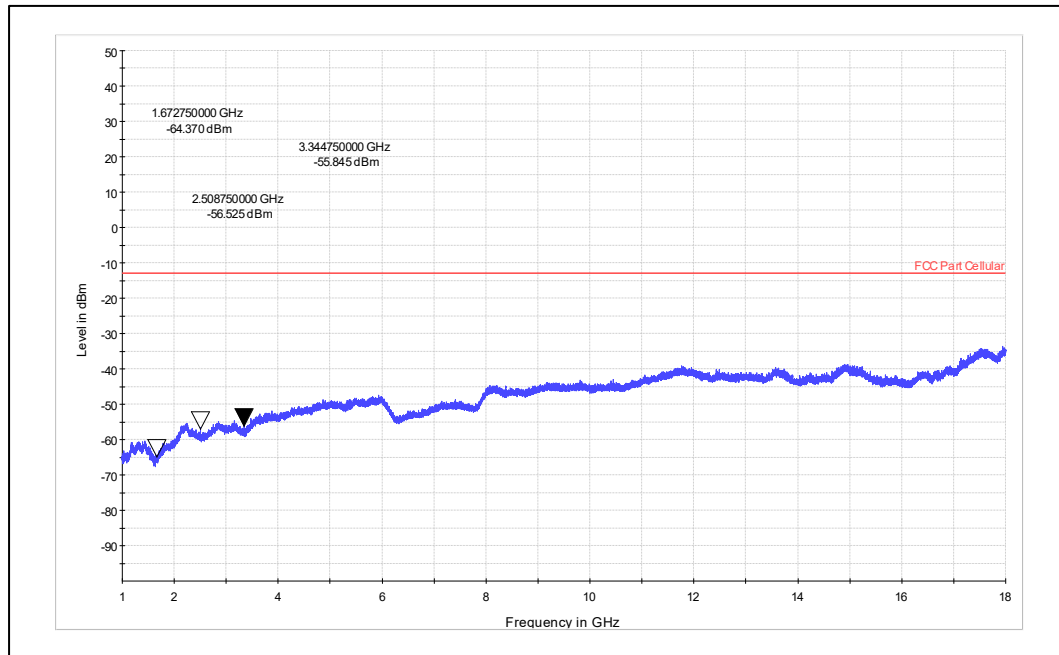


Prüfbericht - Nr.:
Test Report No.:

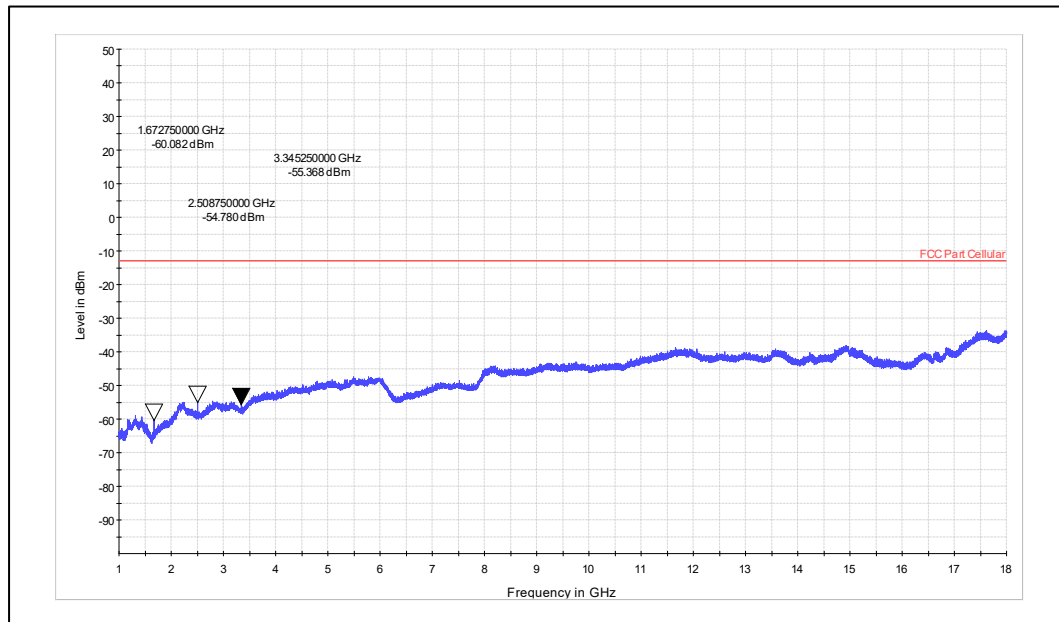
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Band-5_Frequency-836.5_CB-1.4_3RB#0_16-QAM_1-18GHz_Vertical



Band-5_Frequency-836.5_CB-1.4_3RB#0_16-QAM_1-18GHz_Horizontal



Prüfbericht - Nr.:

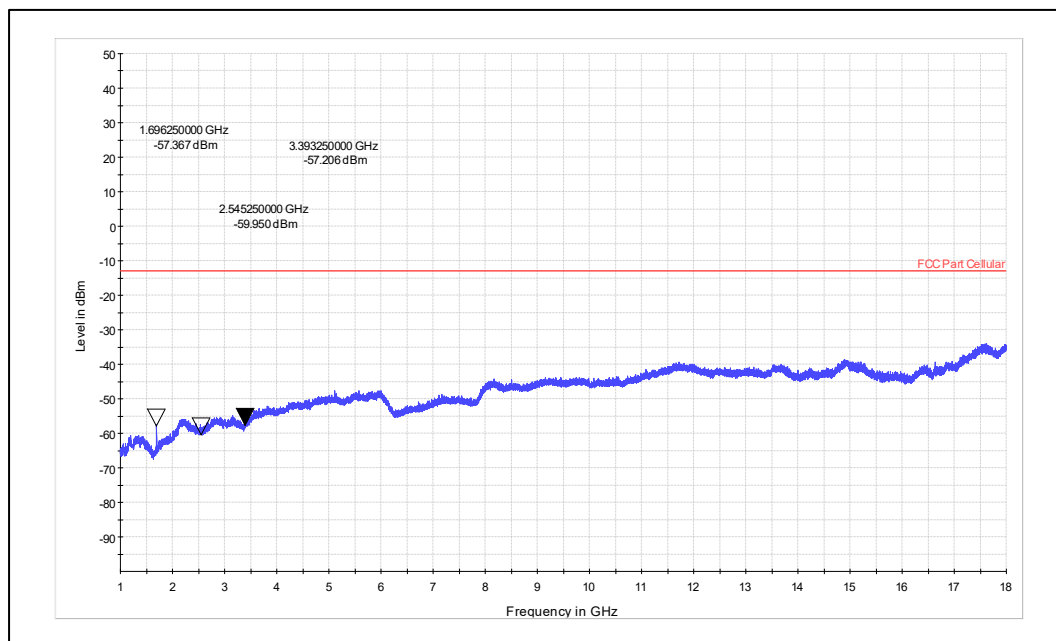
Test Report No.:

IN26I82T 001

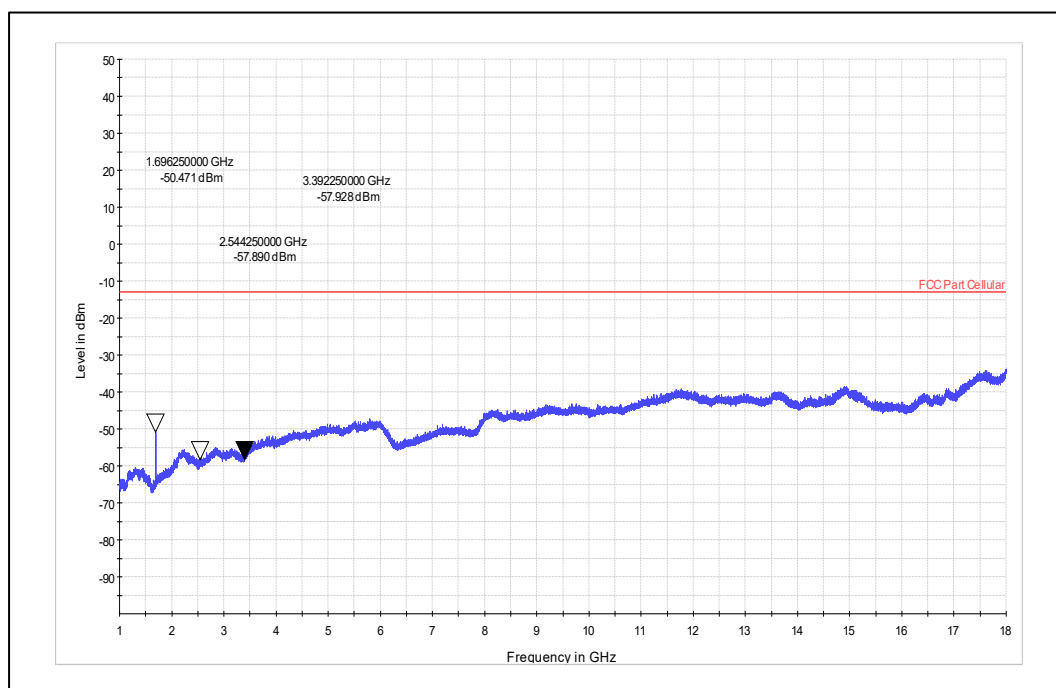
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Band-5_Frequency-848.3_CB-1.4_3RB#0_QPSK_1-18GHz_Vertical



Band-5_Frequency-848.3_CB-1.4_3RB#0_QPSK_1-18GHz_Horizontal



Prüfbericht - Nr.:

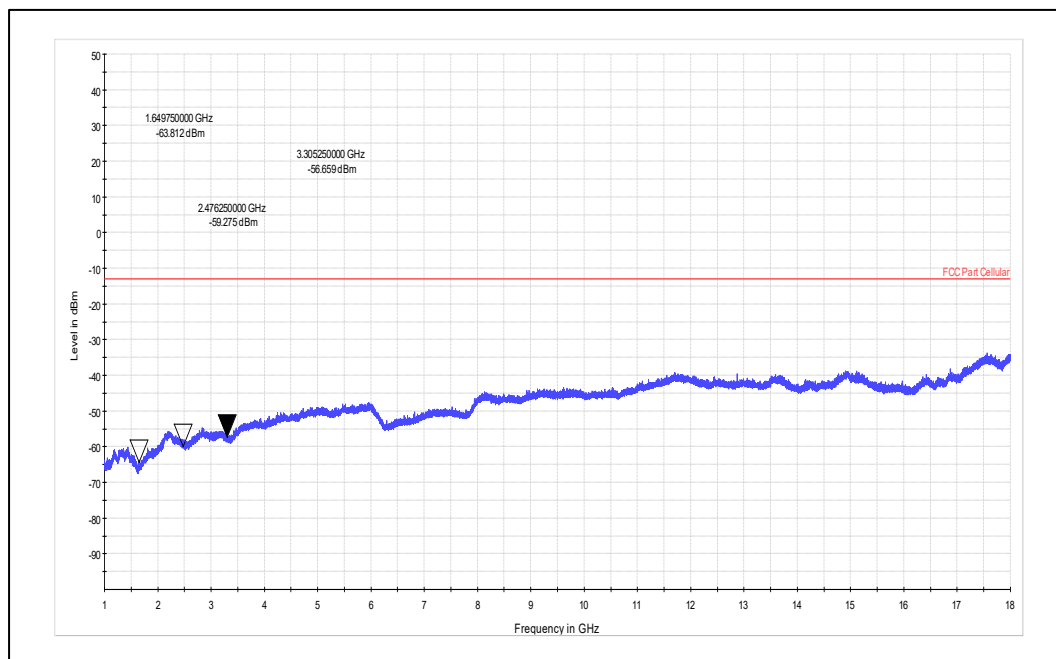
Test Report No.:

IN26I82T 001

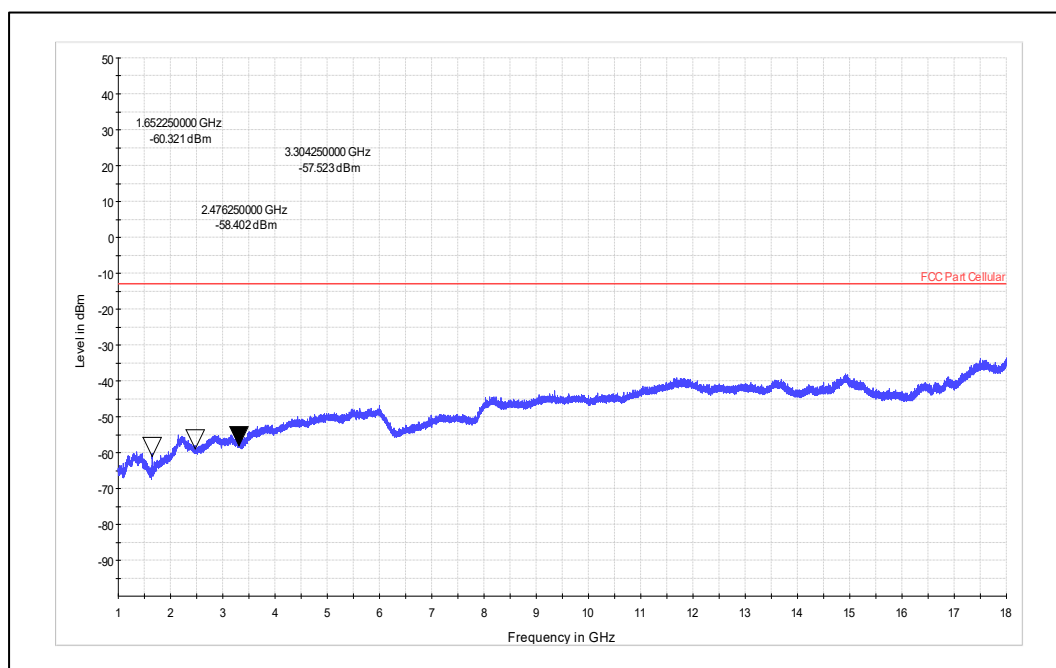
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Band-5_Frequency-825.5_CB-3_15RB#0_QPSK_1-18GHz_Vertical



Band-5_Frequency-825.5_CB-3_15RB#0_QPSK_1-18GHz_Horizontal



Prüfbericht - Nr.:

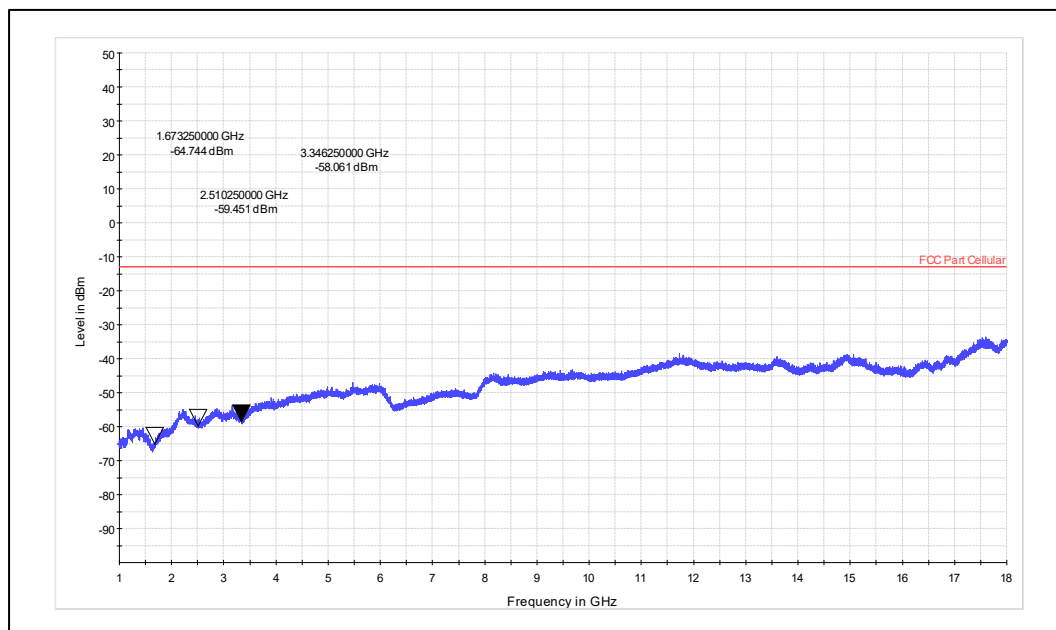
Test Report No.:

IN26I82T 001

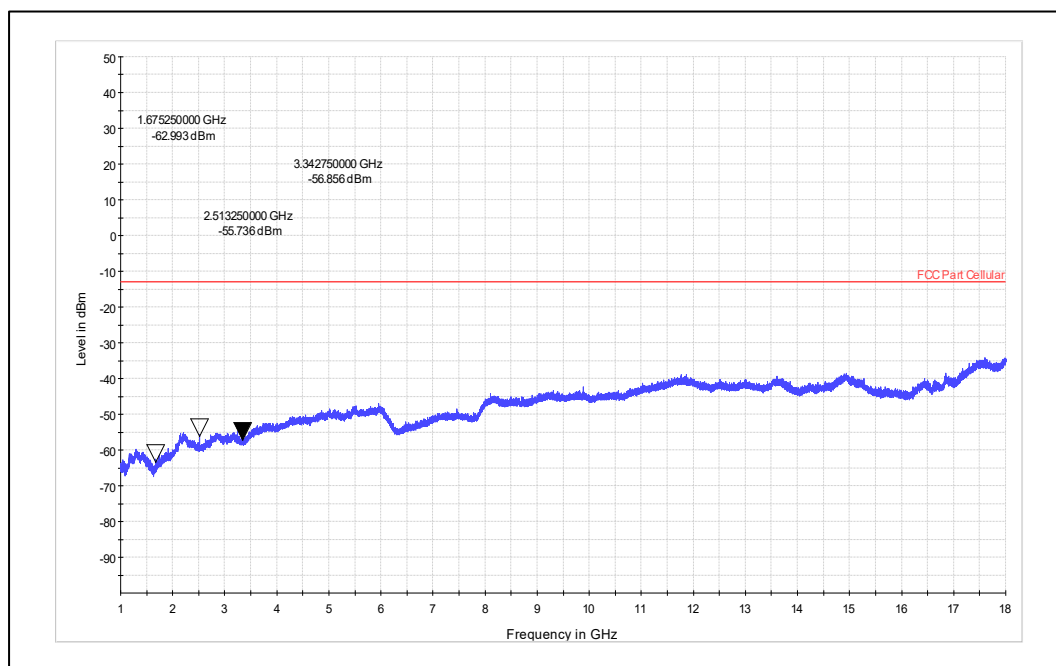
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Band-5_Frequency-836.5_CB-3_1RB#14_16-QAM_1-18GHz_Vertical



Band-5_Frequency-836.5_CB-3_1RB#14_16-QAM_1-18GHz_Horizontal



Prüfbericht - Nr.:

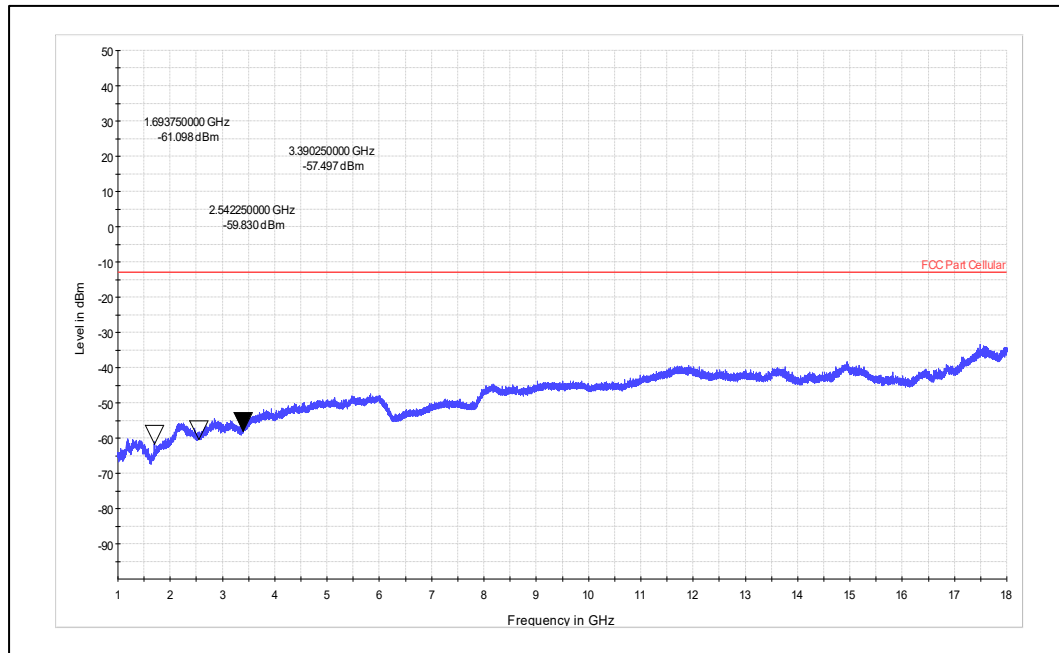
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IN26I82T 001

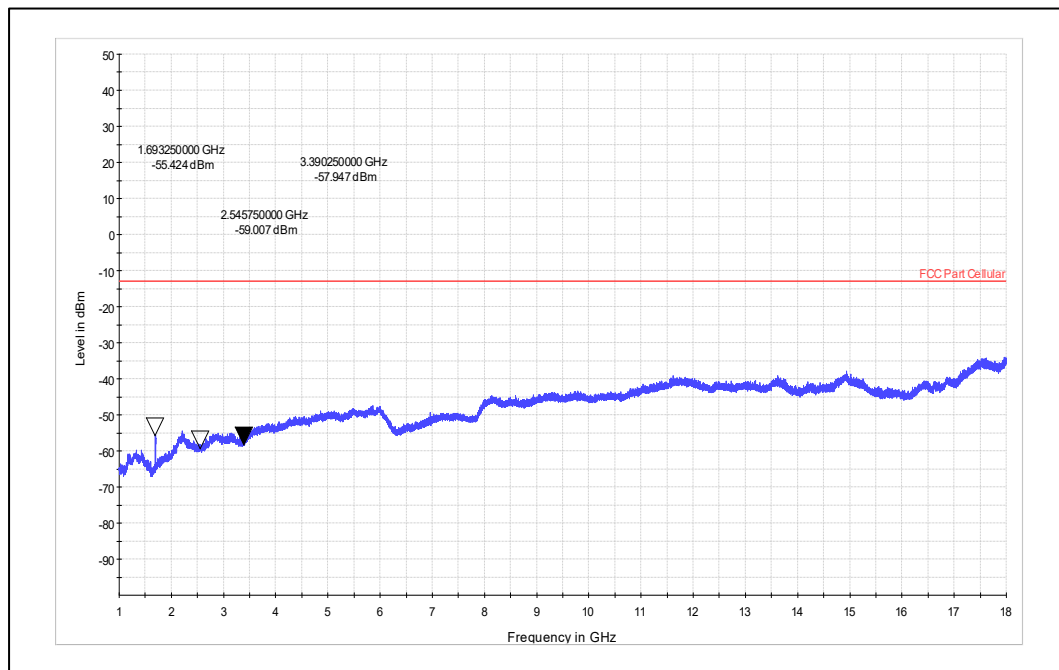
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Band-5_Frequency-847.5_CB-3_15RB#0_QPSK_1-18GHz_Vertical



Band-5_Frequency-847.5_CB-3_15RB#0_QPSK_1-18GHz_Horizontal



Prüfbericht - Nr.:

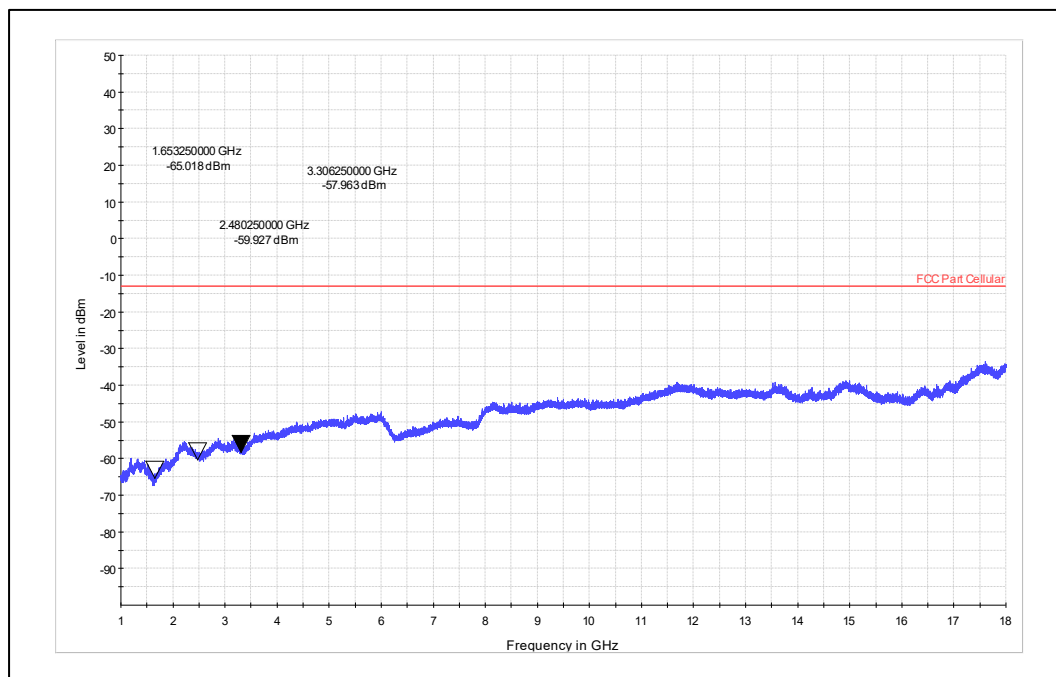
Test Report No.:

IN26I82T 001

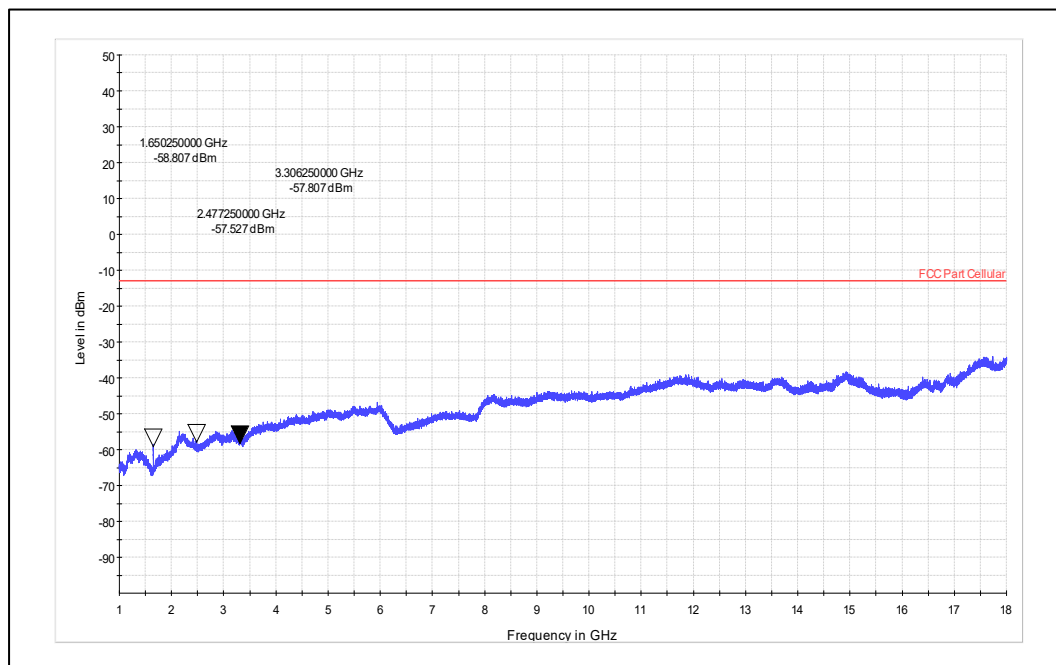
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Band-5_Frequency-826.5_CB-5_25RB#0_QPSK_1-18GHz_Vertical



Band-5_Frequency-826.5_CB-5_25RB#0_QPSK_1-18GHz_Horizontal



Prüfbericht - Nr.:

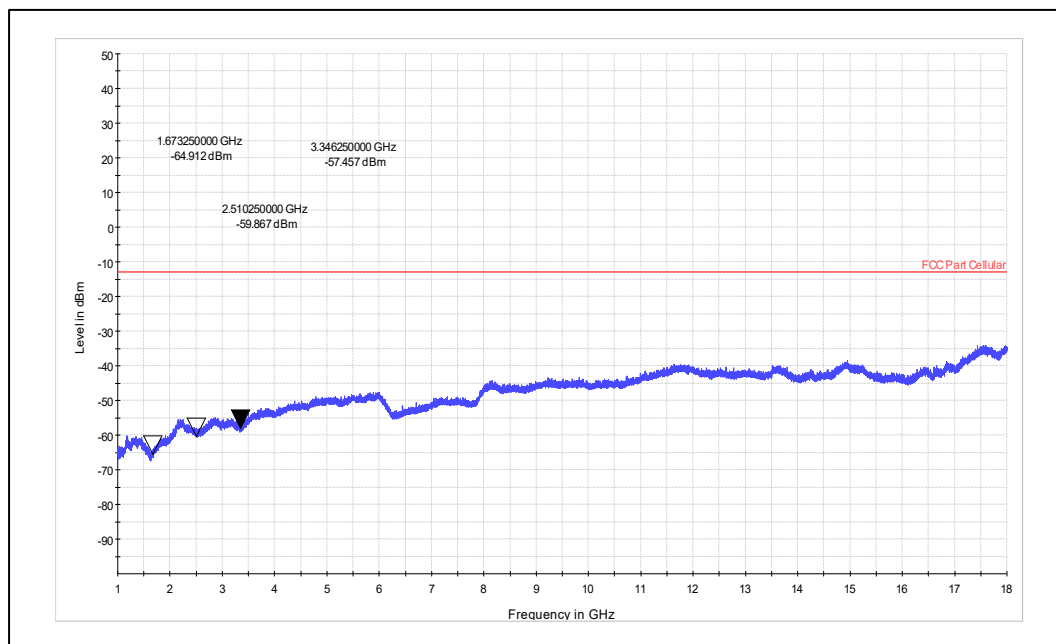
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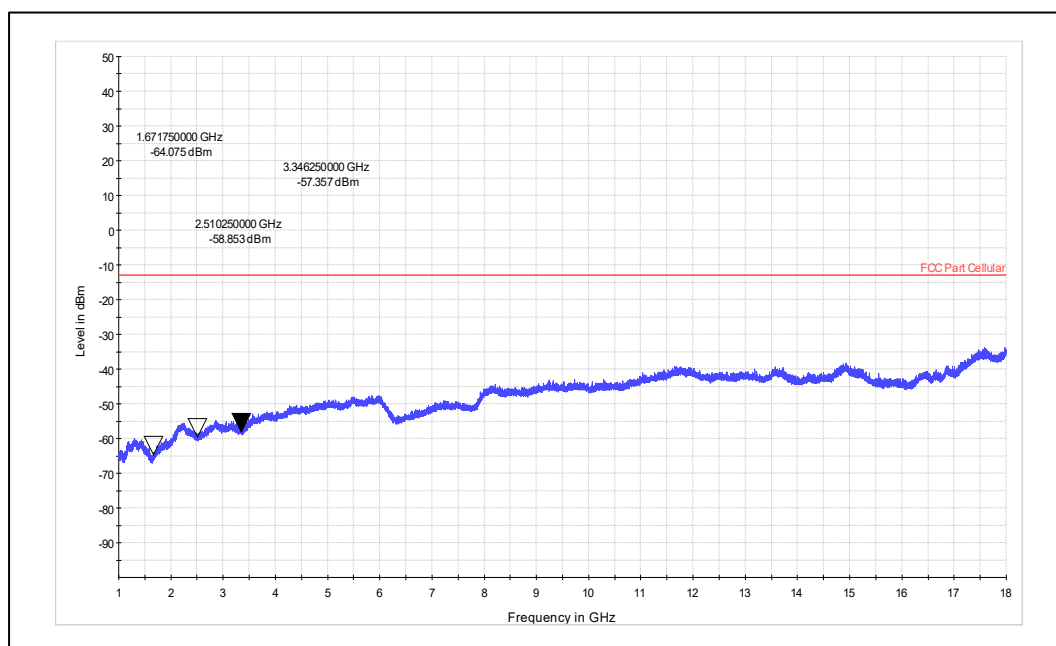
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Band-5_Frequency-836.5_CB-5_25RB#0_QPSK_1-18GHz_Vertical



Band-5_Frequency-836.5_CB-5_25RB#0_QPSK_1-18GHz_Horizontal



Prüfbericht - Nr.:

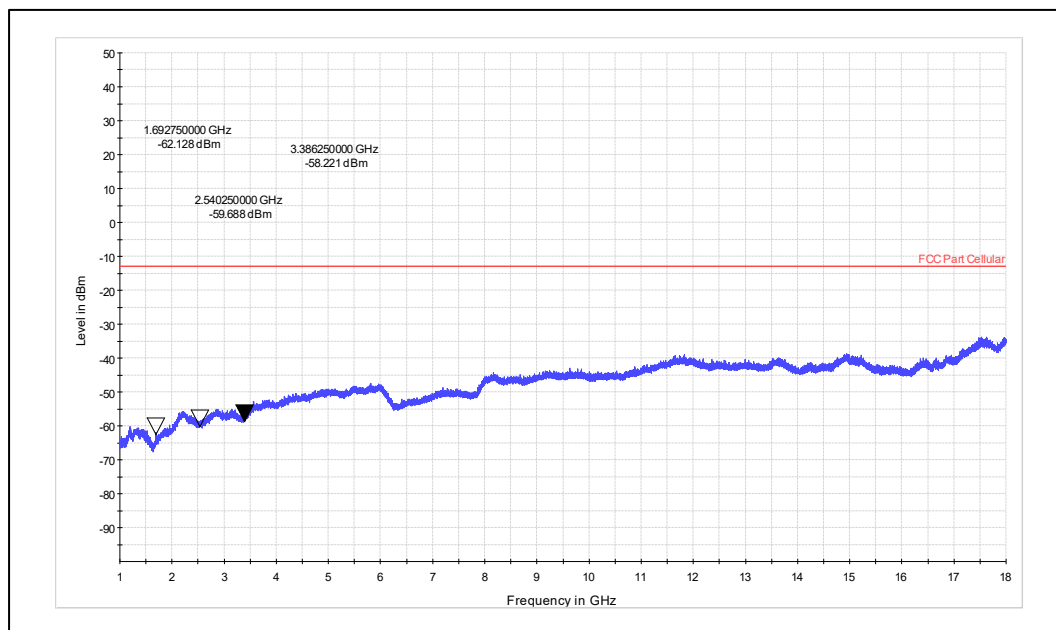
Test Report No.:

IN26I82T 001

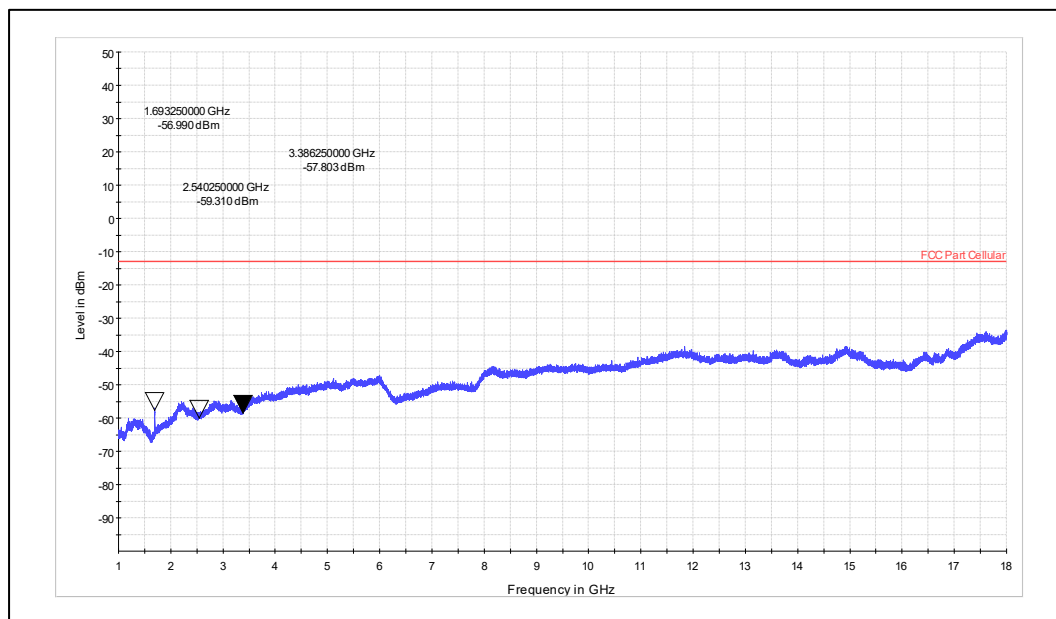
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Band-5_Frequency-846.5_CB-5_25RB#0_QPSK_1-18GHz_Vertical



Band-5_Frequency-846.4_CB-5_25RB#0_QPSK_1-18GHz_Horizontal

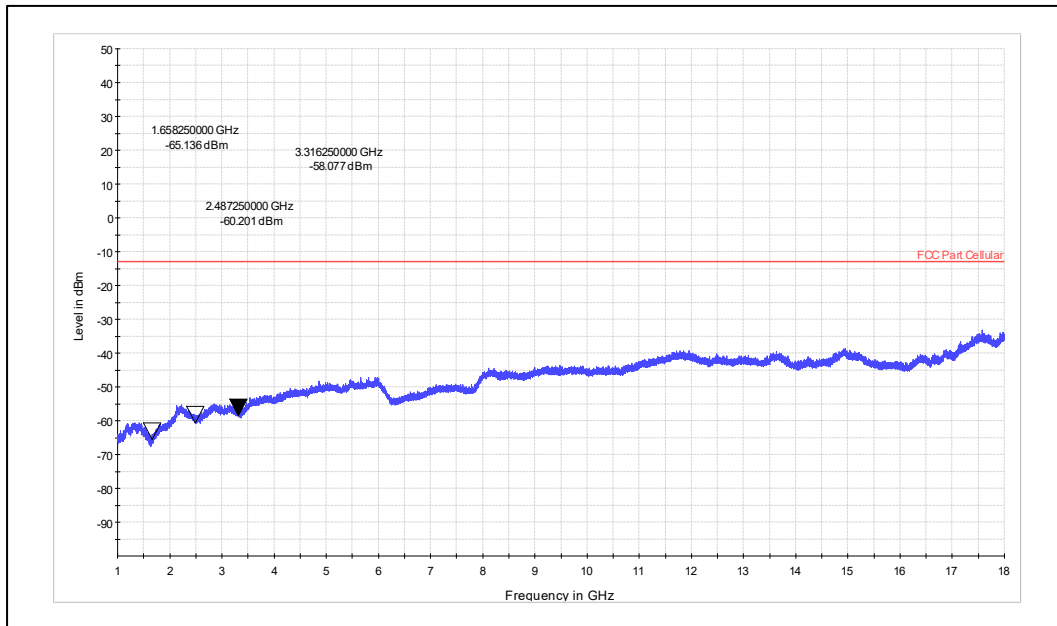


Prüfbericht - Nr.:
Test Report No.:

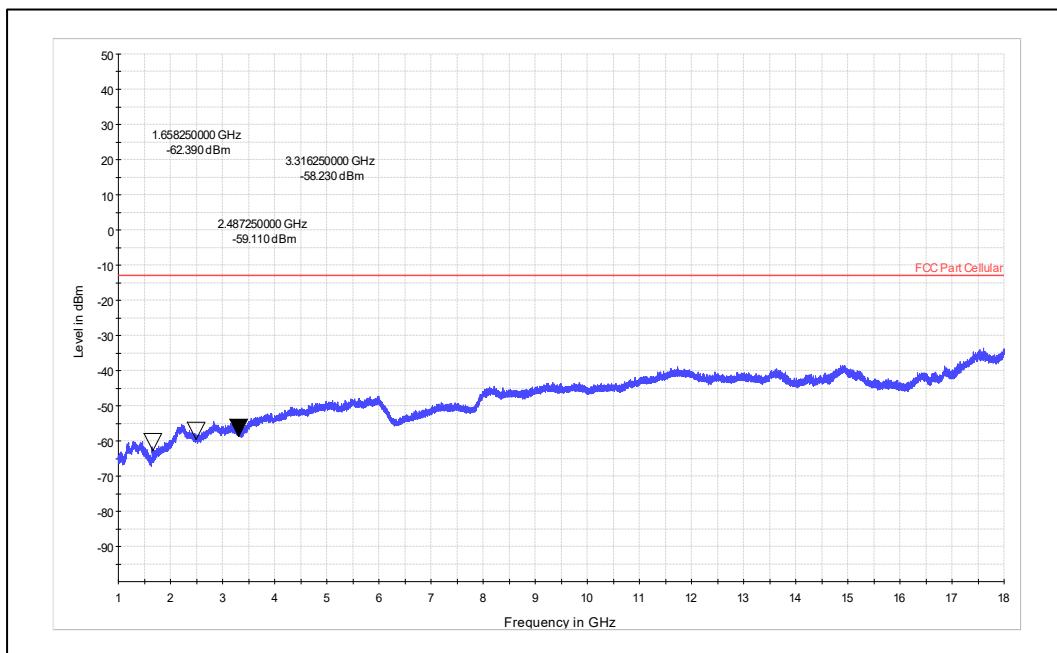
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Band-5_Frequency-829_CB-10_50RB#0_16-QAM_1-18GHz_Vertical



Band-5_Frequency-829_CB-10_50RB#0_16-QAM_1-18GHz_Horizontal

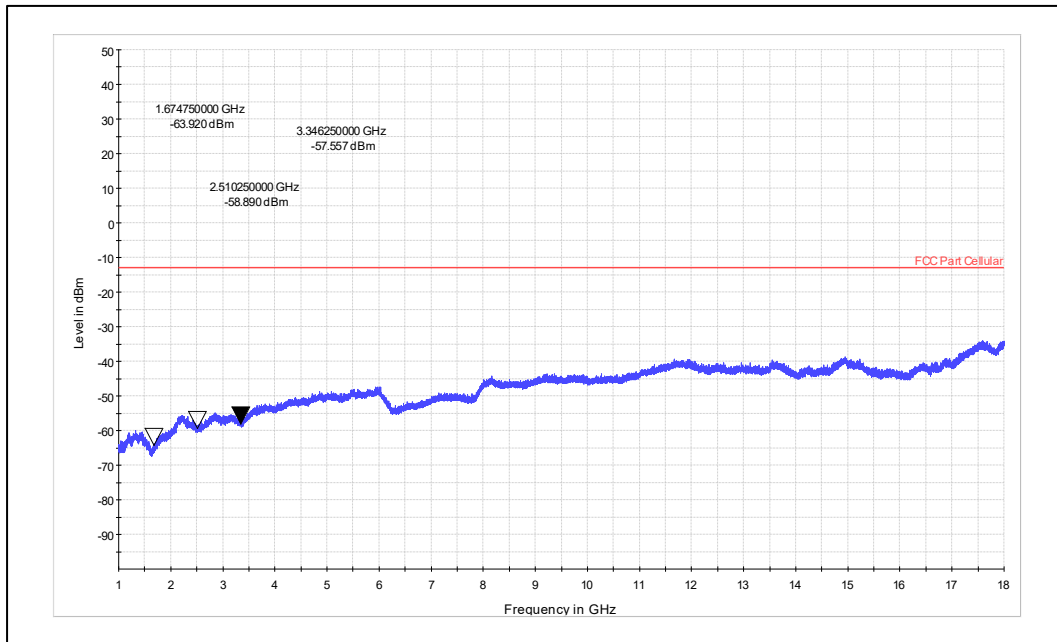


Prüfbericht - Nr.:
Test Report No.:

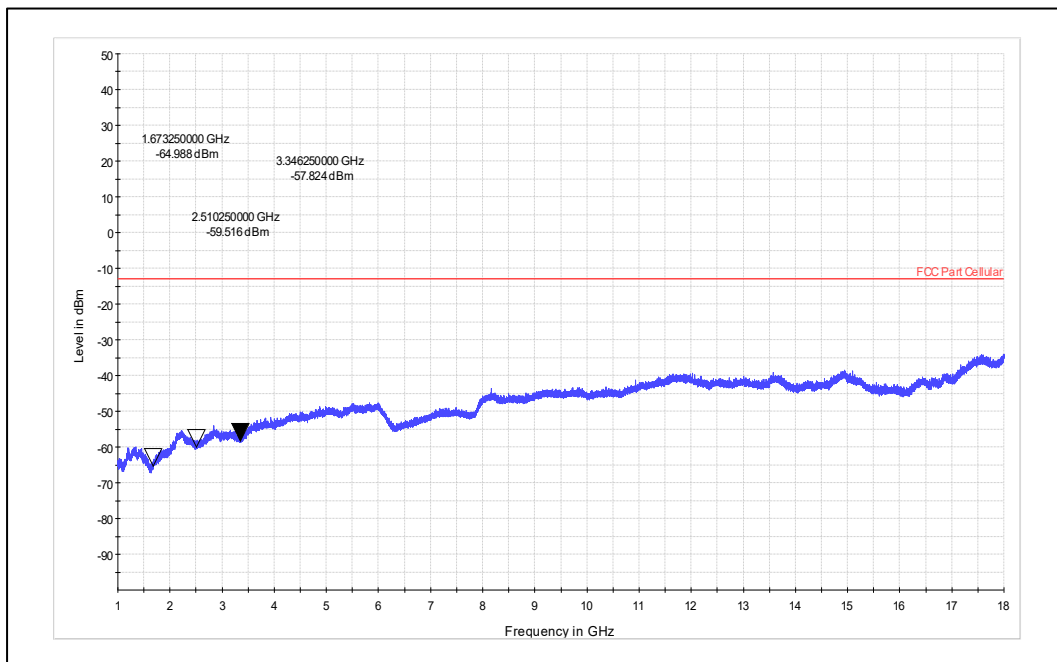
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Band-5_Frequency-836.5_CB-10_50RB#0_16QAM_1-18GHz_Vertical



Band-5_Frequency-836.5_CB-10_50RB#0_16QAM_1-18GHz_Horizontal



Prüfbericht - Nr.:

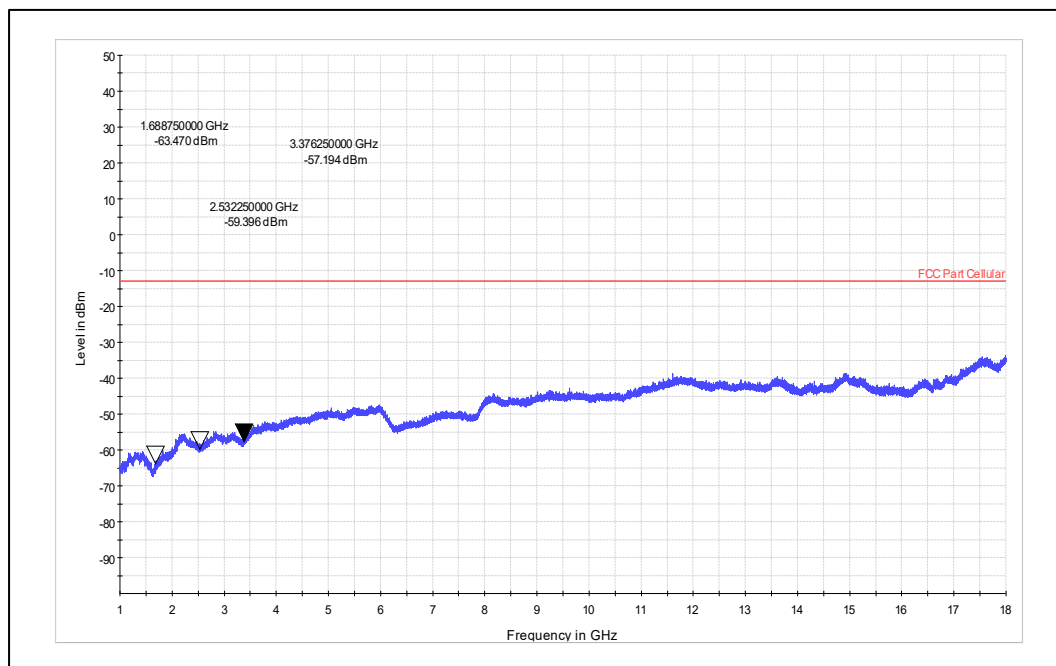
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IN26I82T 001

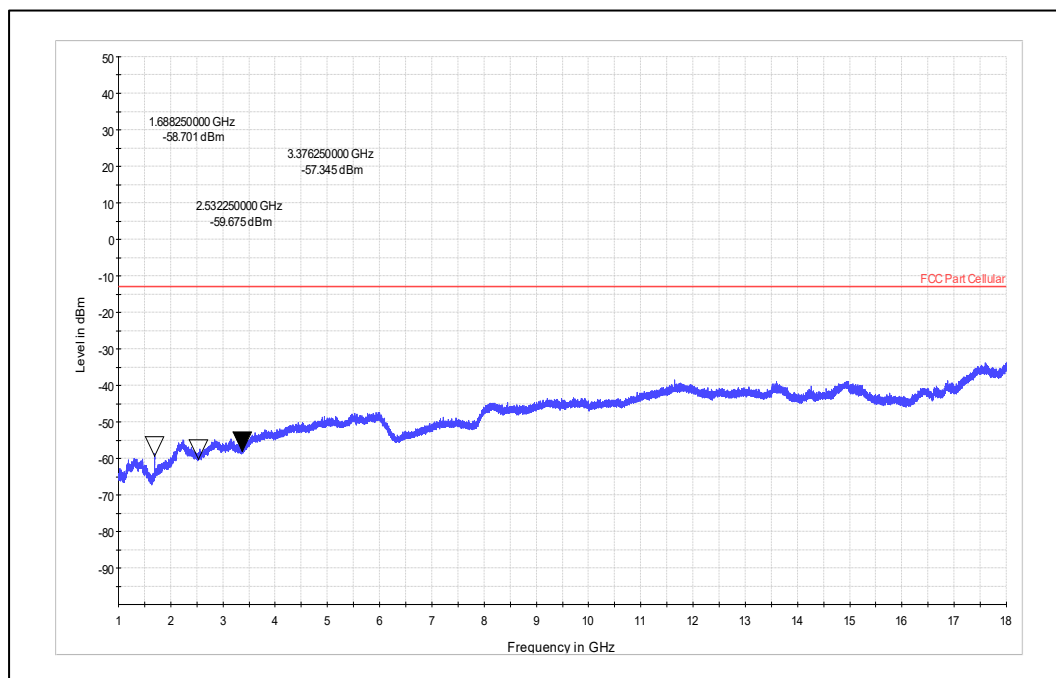
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Band-5_Frequency-844_CB-10_50RB#0_16-QAM_1-18GHz_Vertical



Band-5_Frequency-844_CB-10_50RB#0_16-QAM_1-18GHz_Horizontal



Prüfbericht - Nr.:

Test Report No.:

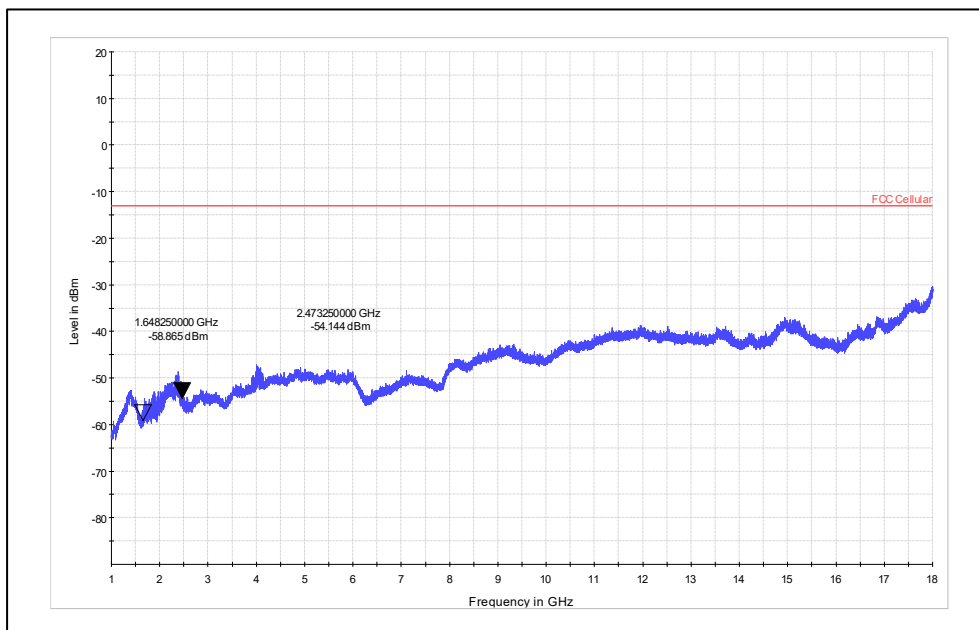
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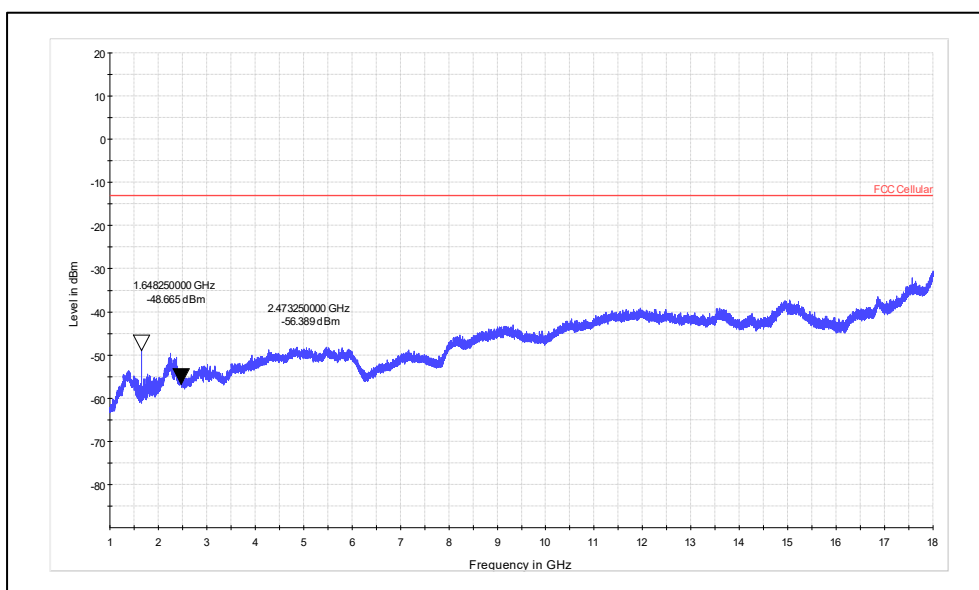
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GSM 850MHz Test Plots:

GPRS_GSM850MHz-Ch-824.20MHz_1GHz to 18GHz-Vertical



GPRS_GSM850MHz-Ch-824.20MHz_1GHz to 18GHz-Horizontal



Prüfbericht - Nr.:

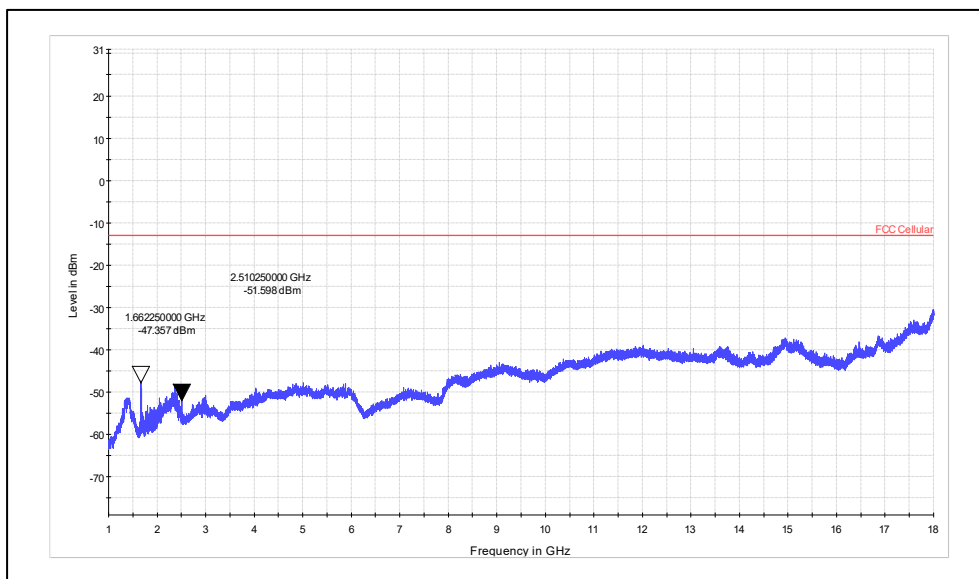
Test Report No.:

IN26I82T 001

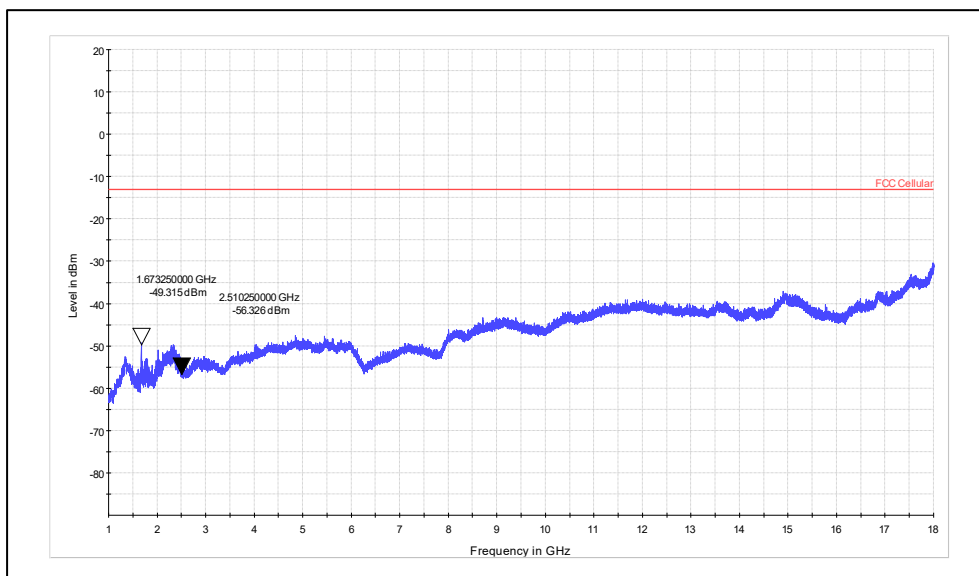
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GPRS_GSM850MHz-Ch-836.40MHz_1GHz to 18GHz-Vertical



GPRS_GSM850MHz-Ch-836.40MHz_1GHz to 18GHz-Horizontal



Prüfbericht - Nr.:

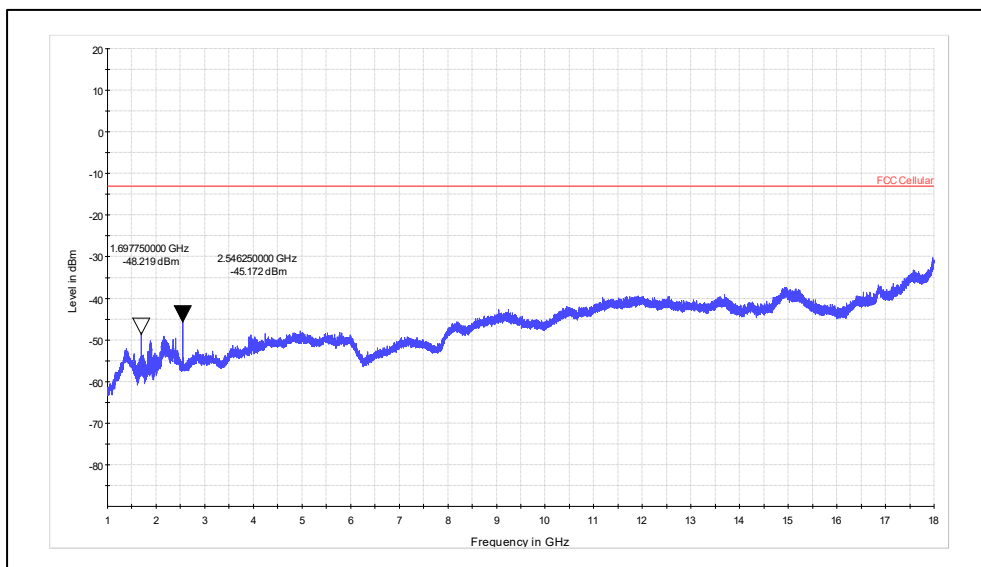
Test Report No.:

IN26I82T 001

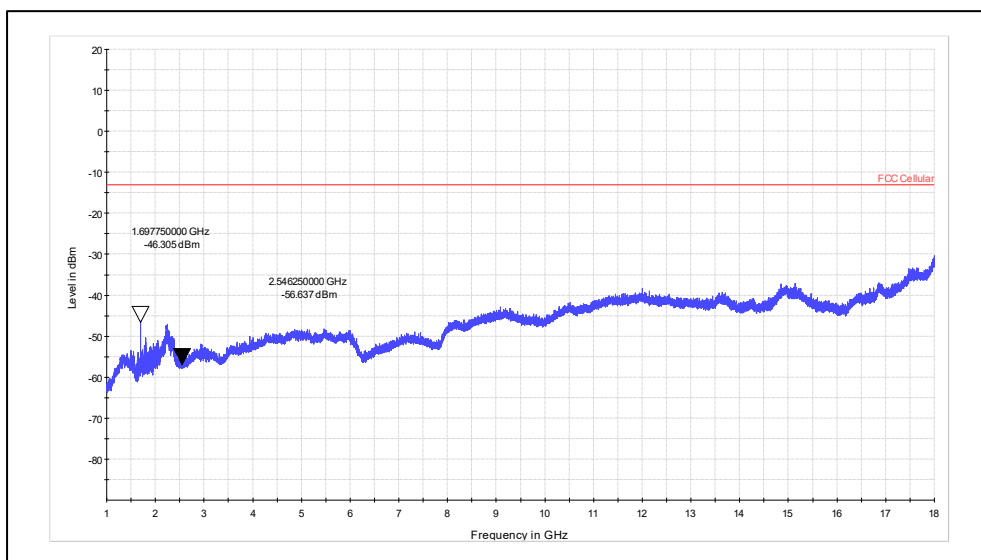
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GPRS_GSM850MHz-Ch-848.80MHz_1GHz to 18GHz-Vertical



GPRS_GSM850MHz-Ch-848.80MHz_1GHz to 18GHz-Horizontal



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Simultaneous Operations:

Above 1GHz Test results for Internal Antenna:

Combination of Wi-Fi 2.4GHz and LTE (Band-2):

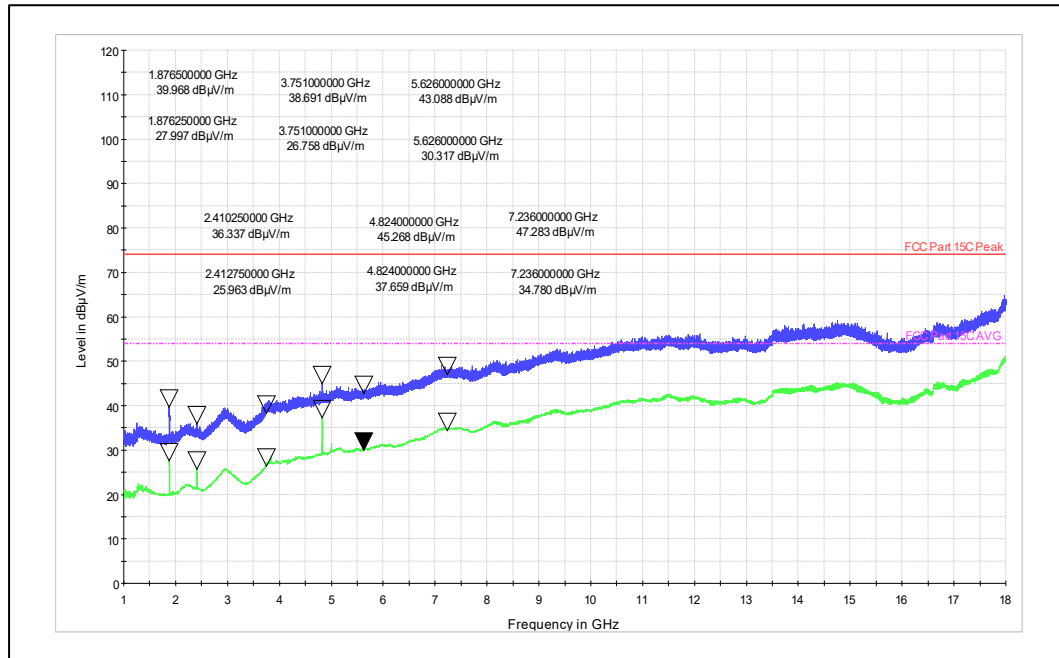
Frequency Bands	Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Emission (dBm)	Limit (dBm)	Margin (dB)
Wi-Fi 2.4GHz b_mode-1Mbps	2412	Vertical	4824(Pk)	45.26	74.00	-28.74
			4824(Av)	37.65	54.00	-16.35
			7236(Pk)	47.28	74.00	-26.72
			7236(Av)	34.78	54.00	-19.22
		Horizontal	4824(Pk)	41.64	74.00	-32.36
			4824(Av)	30.24	54.00	-23.76
			7236(Pk)	47.37	74.00	-26.63
			7236(Av)	34.67	54.00	-19.33
LTE Band -2	1880	Vertical	3751(Pk)	38.69	74.00	-35.31
			3751(Av)	26.75	54.00	-27.25
			5626(Pk)	43.08	74.00	-30.92
			5626(Av)	30.31	54.00	-23.69
		Horizontal	3751(Pk)	38.99	74.00	-35.01
			3751(Av)	26.84	54.00	-27.16
			5626(Pk)	42.39	74.00	-31.61
			5626(Av)	30.55	54.00	-23.45

Combination of Wi-Fi 5GHz and LTE (Band-2):

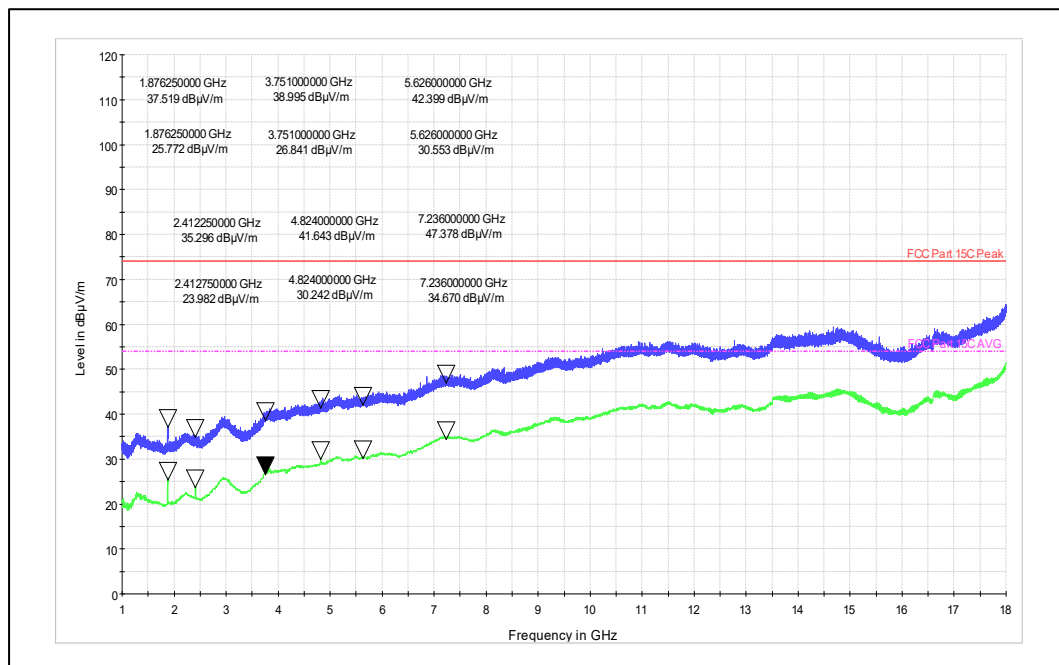
Frequency Bands	Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Emission (dBm)	Limit (dBm)	Margin (dB)
Wi-Fi 5GHz a_mode-6Mbps	5180	Vertical	10360(Pk)	51.42	68.23	-16.81
			10360(Av)	39.28	54.00	-14.72
			15540(Pk)	54.62	68.23	-13.61
			15540(Av)	42.14	54.00	-11.86
		Horizontal	10360(Pk)	52.11	68.23	-16.12
			10360(Av)	39.64	54.00	-14.36
			15540(Pk)	54.34	68.23	-13.89
			15540(Av)	41.66	54.00	-12.34
LTE Band -2	1880	Vertical	3751(Pk)	39.33	68.23	-28.90
			3751(Av)	26.60	54.00	-27.40
			5626(Pk)	41.31	68.23	-26.92
			5626(Av)	29.15	54.00	-24.85
		Horizontal	3751(Pk)	39.15	68.23	-29.08
			3751(Av)	26.67	54.00	-27.33
			5626(Pk)	41.66	68.23	-26.57
			5626(Av)	29.30	54.00	-24.70

Test Plots:

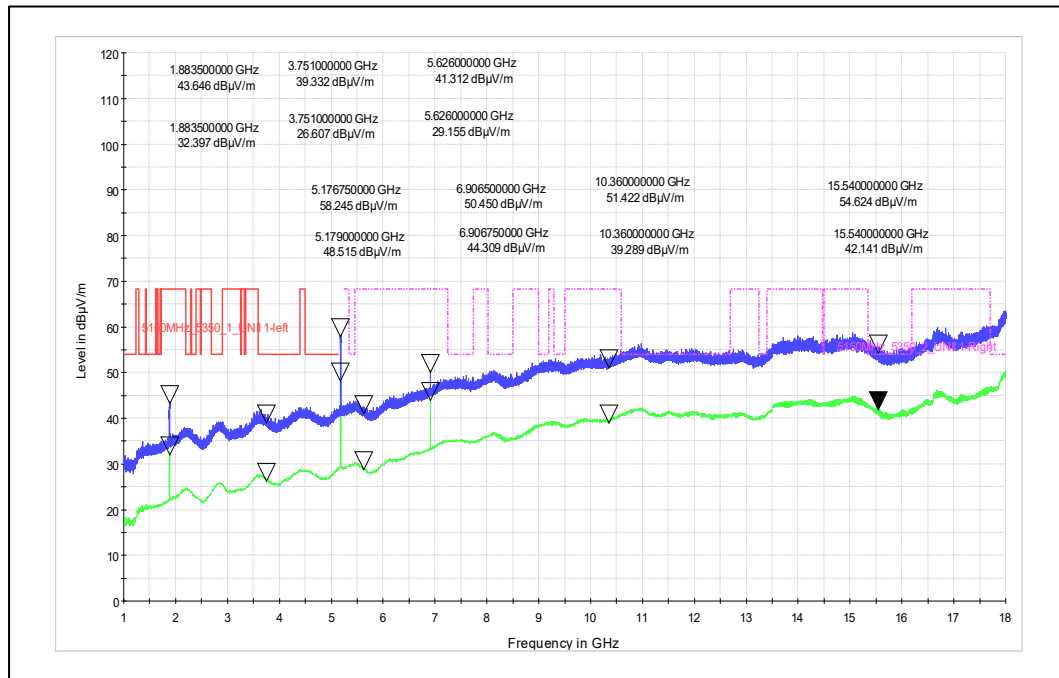
WiFi-2.4GHz_Ch-2412MHz_Band 2_Channel-1880MHz-QPSK-CB10MHz_Vertical Polarization



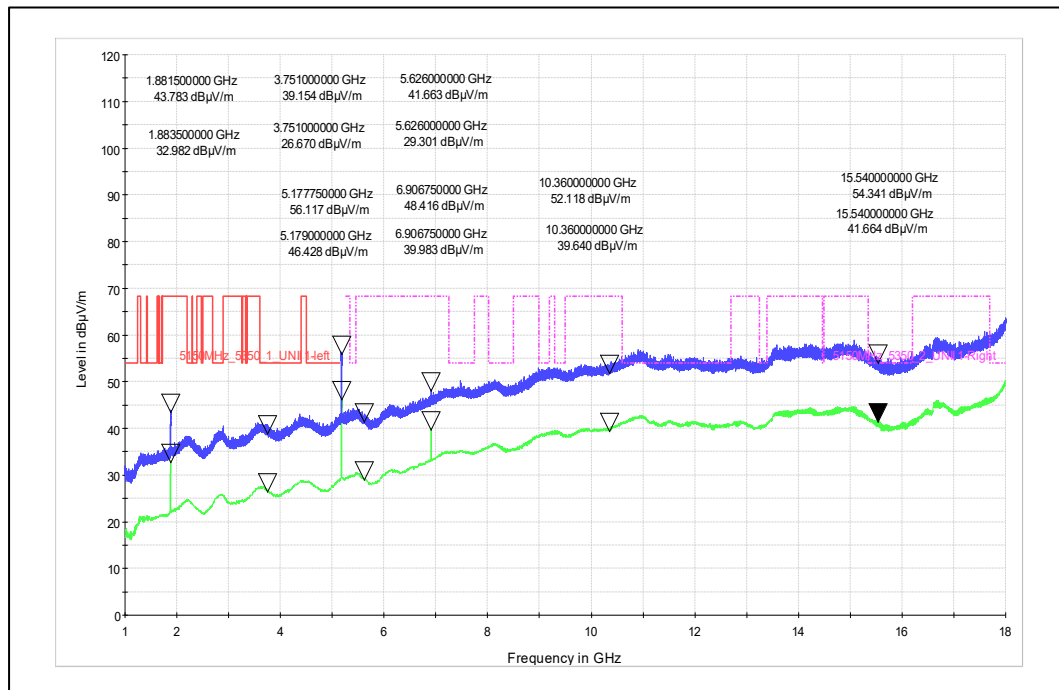
WiFi-2.4GHz_Ch-2412MHz_Band 2_Channel-1880MHz-QPSK-CB10MHz_Horizontal Polarization



WiFi-5GHz_Ch-5180MHz_Band 2_Channel-1880MHz-QPSK-CB10MHz_Vertical Polarization



WiFi-5GHz_Ch-5180MHz_Band 2_Channel-1880MHz-QPSK-CB10MHz_Horizontal Polarization



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Above 1GHz Test results for External Antenna:

Combination of Wi-Fi 2.4GHz and LTE (Band-2):

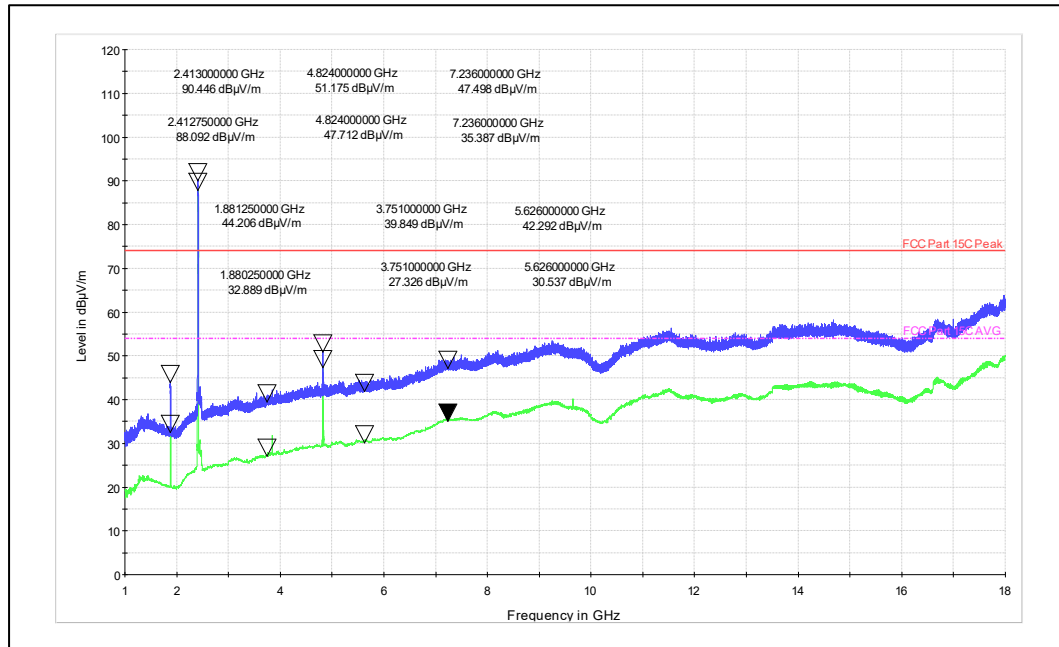
Frequency Bands	Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Emission (dBm)	Limit (dBm)	Margin (dB)
Wi-Fi 2.4GHz b_mode-1Mbps	2412	Vertical	4824(Pk)	51.17	74.00	-22.83
			4824(Av)	47.71	54.00	-6.29
			7236(Pk)	47.49	74.00	-26.51
			7236(Av)	35.38	54.00	-18.62
		Horizontal	4824(Pk)	44.56	74.00	-29.44
			4824(Av)	36.85	54.00	-17.15
			7236(Pk)	47.80	74.00	-26.20
			7236(Av)	35.19	54.00	-18.81
LTE Band -2	1880	Vertical	3751(Pk)	39.84	74.00	-34.16
			3751(Av)	27.32	54.00	-26.68
			5626(Pk)	42.29	74.00	-31.71
			5626(Av)	30.53	54.00	-23.47
		Horizontal	3751(Pk)	40.43	74.00	-33.57
			3751(Av)	27.28	54.00	-26.72
			5626(Pk)	42.51	74.00	-31.49
			5626(Av)	30.64	54.00	-23.36

Combination of Wi-Fi 5GHz and LTE (Band-2):

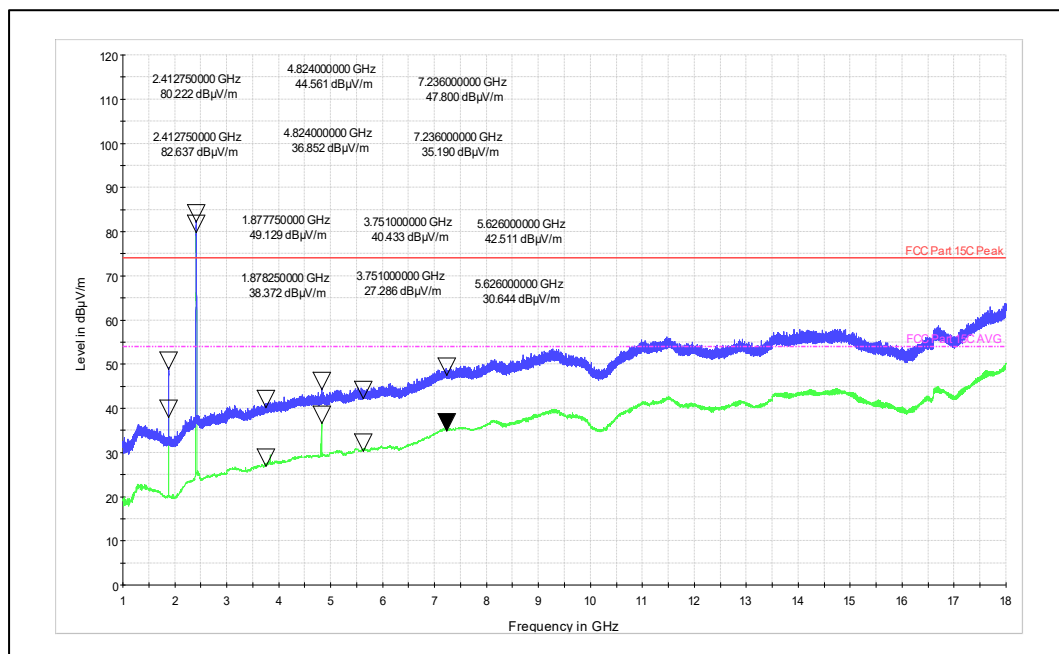
Frequency Bands	Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Emission (dBm)	Limit (dBm)	Margin (dB)
Wi-Fi 5GHz a_mode-6Mbps	5180	Vertical	10360(Pk)	50.66	68.23	-17.57
			10360(Av)	38.79	54.00	-15.21
			15540(Pk)	56.11	68.23	-12.12
			15540(Av)	44.35	54.00	-9.65
		Horizontal	10360(Pk)	50.94	68.23	-17.29
			10360(Av)	39.10	54.00	-14.90
			15540(Pk)	56.56	68.23	-11.67
			15540(Av)	43.88	54.00	-10.12
LTE Band -2	1880	Vertical	3751(Pk)	39.33	68.23	-28.90
			3751(Av)	27.18	54.00	-26.82
			5626(Pk)	42.41	68.23	-25.82
			5626(Av)	30.37	54.00	-23.63
		Horizontal	3751(Pk)	38.96	68.23	-29.27
			3751(Av)	27.21	54.00	-26.79
			5626(Pk)	42.89	68.23	-25.34
			5626(Av)	30.46	54.00	-23.54

Test Plots:

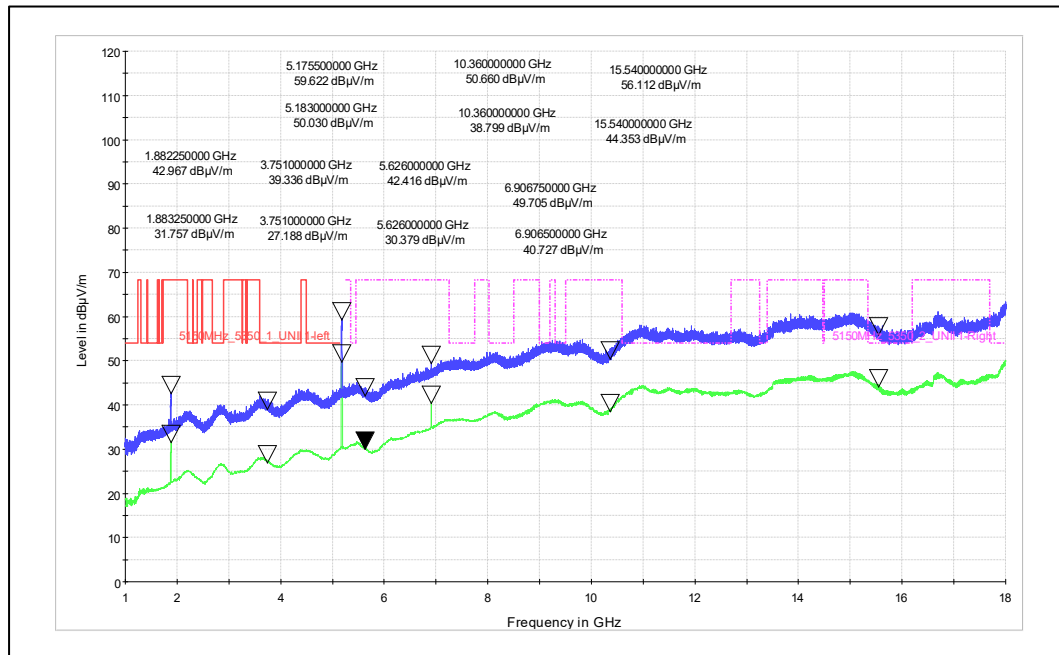
WiFi-2.4GHz_Ch-2412MHz_Band 2_Channel-1880MHz-QPSK-CB10MHz_Vertical Polarization



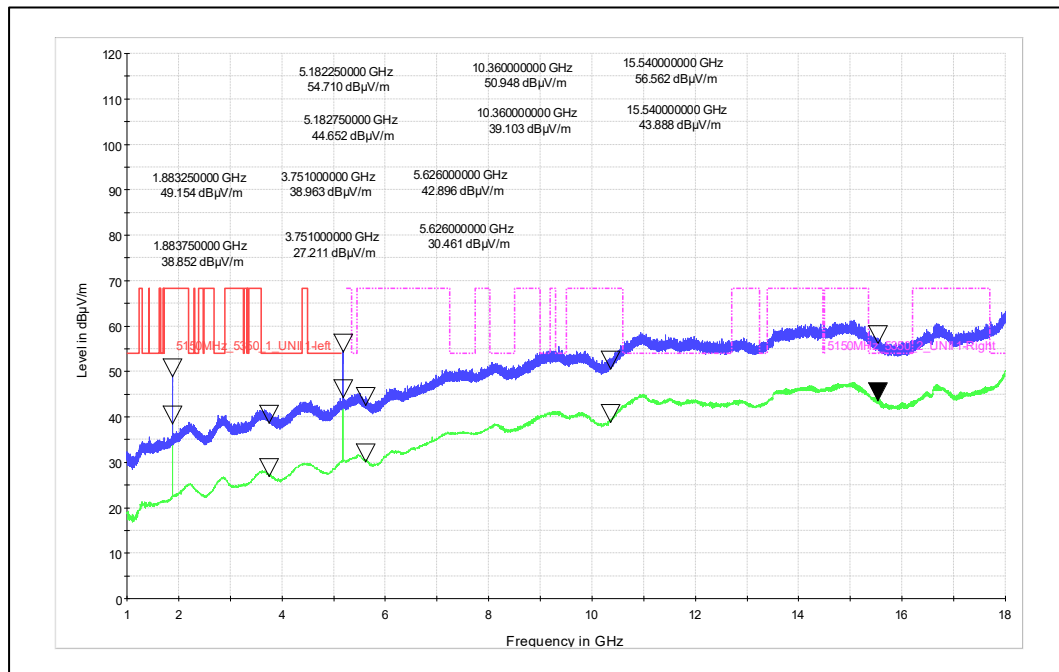
WiFi-2.4GHz_Ch-2412MHz_Band 2_Channel-1880MHz-QPSK-CB10MHz_Horizontal Polarization



WiFi-5GHz_Ch-5180MHz_Band 2_Channel-1880MHz-QPSK-CB10MHz_Vertical Polarization



WiFi-5GHz_Ch-5180MHz_Band 2_Channel-1880MHz-QPSK-CB10MHz_Horizontal Polarization



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