

FCC RADIO TEST REPORT FCC ID: 2AP79-0001L

Product: Gaia Trade Mark: duubee Model No.: D601L Serial Model: D601M Report No.: SER180628601006E Issue Date: 26 Jul. 2018

Prepared for

Duubee Intelligent Technologies Inc

2420 Buelingo Lane, Fort Worth, TX, 76131, United States

Prepared by

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1 TEST RESULT CERTIFICATION

·			
Applicant's name:	Duubee Intelligent Technologies Inc		
Address:	2420 Buelingo Lane, Fort Worth, TX, 76131, United States		
Manufacturer's Name:	Duubee Intelligent Technologies Inc		
Address:	2420 Buelingo Lane, Fort Worth, TX, 76131, United States		
Product description			
Product name:	Gaia		
Model and/or type reference:	D601L		
Serial Model:	D601M		

Measurement Procedure Used:

APPLICABLE STANDARDS

APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT	
47 CFR Part 2, Part 22H, Part 24E		
ANSI/TIA-603-E-2016	Complied	
FCC KDB 971168 D01 Power Meas License Digital Systems v03	Complied	
ANSI C63.26:2015		

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only	y to the tested sample identified in this report.
Date of Test :	28 Jun. 2018 ~ Jul. 26, 2018
Testing Engineer :	Eileen Wu.
	(Eileen Liu)
Technical Manager :	Jason chen
	(Jason Chen)
	Sam. Chen
Authorized Signatory :	
	(Sam Chen)

2 SUMMARY OF TEST RESULTS FCC Part22, Subpart H/ FCC Part24, Subpart E FCC Rule Test Item Verdict 2.1046 **Conducted Output Power** PASS PASS 24.232(d) Peak-to-Average Ratio 2.1049 22.917(b) Occupied Bandwidth PASS 24.238(b)

2.1051 22.917(a) 24.238(a)	Band Edge	PASS	
22.913(a)(2)	Effective Radiated Power	PASS	
24.232(c)	Equivalent Isotropic Radiated Power	PASS	
2.1053 22.917(a) 24.238(a)	Field Strength of Spurious Radiation	PASS	
2.1055 22.355 24.235	Frequency Stability for Temperature & Voltage	PASS	
2.1051 22.917(a) 24.238(a)	Conducted Emission	PASS	

Remark:

1. "N/A" denotes test is not applicable in this Test Report.

 All test items were verified and recorded according to the standards and without any deviation during the test.

3. No modifications are made to the EUT during all test items.

4. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description CNAS-Lab.	: The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A-1.
FCC- Accredited	Test Firm Registration Number: 463705. Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm Site Location	 Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Measuring Uncertainty for a Level of Confidence of 95% (U = $2Uc(y)$)	2.5dB



4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification					
Equipment Gaia					
Trade Mark	duubee				
FCC ID	2AP79-0001L				
Model No.	D601L				
Serial Model	D601M				
Model Difference	All models are the same circuit and RF module, except the memory.				
Operating Frequency \Begin{aligned} \Gegin{aligned} aligne					
Modulation					
GPRS Class	Multi-Class12 Only 4 timeslots are used for GPRS				
SIM CARD The Phone has Two SIM Card socket					
Antenna Type	PIFA Antenna				
Antenna Gain	GSM850: -2.9dBi; PCS1900: -0.7 dBi; WCDMA B1: -1.0 dBi; WCDMA B2: -2.0 dBi; WCDMA B4: -1.9 dBi; WCDMA B5: -3 dBi				
	DC supply: Battery DC 3.85V/3120mAh from battery or DC 5V from USB Port.				
Power supply	Adapter supply: Model: DB-G1DC5201 Input: 100-240V~50/60Hz 0.35A Output: 5V2A				
HW Version	DVT				
SW Version Duubee OS 1.5.0.0					

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual. The High Voltage 4.43V and Low Voltage 3.66V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.



Revision History						
Report No.	Version	Description	Issued Date			
SER180628601006E	Rev.01	Initial issue of report	Jul. 26, 2018			



5 DESCRIPTION OF TEST MODES

During the testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication Tester(CMU 200) to ensure max power transmission and proper modulation. Three channels (The low channel, the middle channel and the high channel) were chosen for testing on both GPRS850 and GPRS1900 frequency band.

Note: GSM/GPRS 850, GSM/GPRS 1900, HSDPA band II, HSUPA band II, HSPA⁺ band II, DC-HSDPA band II, HSDPA band V, HSUPA band V, HSPA⁺ band V, DC-HSDPA band V, HSDPA band IV, HSUPA band IV, HSPA⁺ band IV, DC-HSDPA band IV modes have been tested during the test. the worst condition (GSM850, GSM1900 RMC 12.2k) be recorded in the test report if no other modes test data.

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 10th harmonic for GSM850/UMTS FDD Band V/ UMTS FDD Band IV.

2. 30 MHz to 10th harmonic for GSM1900/UMTS FDD Band II.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

	Test Modes					
Band	For Conducted Test Cases	For Radiated Test Cases				
GSM 850	GSM Link	GSM Link				
GSM 1900	GSM Link	GSM Link				
UMTS Band II	RMC 12.2Kbps Link	RMC 12.2Kbps Link				
UMTS Band V	RMC 12.2Kbps Link	RMC 12.2Kbps Link				
UMTS Band IV	RMC 12.2Kbps Link	RMC 12.2Kbps Link				

Test Frequency and Channels:

Frequency	🖾 GSM 850		⊠GSM 1900		UMTS Band II		UMTS Band V	
Band	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH_H	251	848.8	810	1909.8	9538	1907.6	4233	846.6
CH_M	190	836.4	661	1880.0	9400	1880.0	4183	836.4
CH_L	128	824.2	512	1850.2	9262	1852.4	4132	826.4

Frequency	UMTS Band IV			
Band	Channel	Frequency (MHz)		
CH_H	1512	1752.6		
CH_M	1413	1732.6		
CH_L	1313	1712.4		



6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

For Radiated Test C	ases			
	EUT			
For Conducted Outp	ut Power			
Measuremen	t 01			
Instrument	Attenuator EUT			
For Peak-to Average	Ratio, Occupied Bandwidth, C	Conducted Band ec	lge and Conduct	ed Spurious Emis
System Simulate				
Spectrum Analyz	Power Divider E	UT		
For Frequency Stabi	lity			
Measuremen	t Attenuator C3 EUT	C4 DC Po	ower	
Instrument	Thermal Cha	Sourc		
Note: EUT built-in b	attery-powered, the battery is	s fully-charged.		



6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Gaia	duubee	D601L	N/A	EUT

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	RF Cable	NO	NO	0.5m
C-2	RF Cable	NO	NO	0.5m
C-3	RF Cable	NO	NO	0.5m
C-4	DC Cable	NO	NO	0.6m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in [Length] column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2017.10.26	2018.10.25	1 year
2	Test Receiver	R&S	ESPI	101318	2018.05.19	2019.05.18	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2018.04.09	2019.04.08	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2018.05.19	2019.05.18	1 year
5	Horn Antenna	EM	EM-AH-1018 0	2011071402	2018.05.19	2019.05.18	1 year
6	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2018.04.09	2019.04.08	1 year
7	Amplifier	EM	EM-30180	060538	2017.08.09	2018.08.08	1 year
8	Loop Antenna	ARA	PLA-1030/B	1029	2018.05.19	2019.05.18	1 year
9	Power Meter	R&S	NRVS	100696	2017.08.09	2018.08.08	1 year
10	Power Sensor	R&S	URV5-Z4	0395.1619.0 5	2018.05.19	2019.05.18	1 year
11	Test Cable	N/A	R-01	N/A	2017.04.21	2020.04.20	3 year
12	Test Cable	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year
13	Test Cable	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year
14	Test Receiver	R&S	ESCI	101160	2018.05.19	2019.05.18	1 year
15	LISN	R&S	ENV216	101313	2018.04.19	2019.04.18	1 year
16	LISN	EMCO	3816/2	00042990	2018.05.19	2019.05.18	1 year
17	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2018.05.19	2019.05.18	1 year
18	Passive Voltage Probe	R&S	ESH2-Z3	100196	2017.04.21	2020.04.20	3 year
19	Test Cable	N/A	C01	N/A	2017.04.21	2020.04.20	3 year
20	Test Cable	N/A	C02	N/A	2017.04.21	2020.04.20	3 year
21	Test Cable	N/A	C03	N/A	2018.04.19	2019.04.18	1 year
22	Attenuator	MCE	24-10-34	BN9258	2018.04.10	2019.04.09	1 year
23	Spectrum Analyzer	agilent	e4440a	us44300399	2018.05.19	2019.05.18	1 year
24	test receiver	R&S	ESCI	a0304218	2018.05.19	2019.05.18	1 year
25	Communication Tester	R&S	CMU200	A0304247	2017.11.10	2018.11.09	1 year
26	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2018.05.19	2019.05.18	1 year
27	DC Power Source	N/A	PS-6005D	2017040292 3 pration once a y	2017.06.06	2020.06.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& DC Power Source which is scheduled for calibration every 3 years.



7 TEST REQUIREMENTS

7.1 FIELD STRENGTH OF SPURIOUS RADIATION

7.1.1 Applicable Standard

According to FCC KDB 971168 D01 v03 Section 5.8 and ANSI/TIA-603-E-2016 Section 2.2.12

7.1.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P) dB$. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

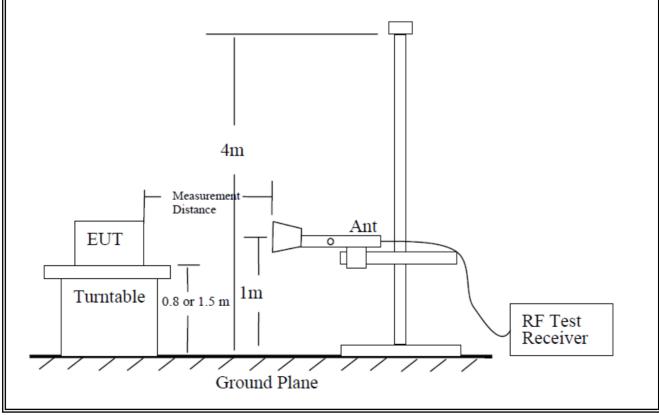
7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

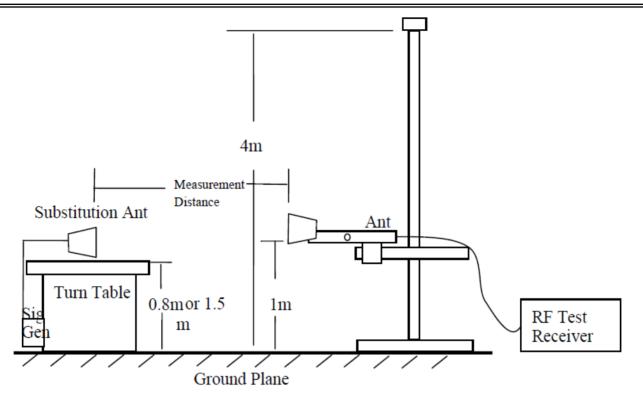
7.1.4 Test Configuration

According to the ANSI/TIA-603-E-2016 test method, The Receiver or Spectrum was scanned from 9 KHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz The resolution bandwidth is set as outlined in Part 24.238, Part 22.917. The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of WCDMA Band II / WCDMA Band V / WCDMA Band IV/ GSM 850/ GSM 1900.

TEST CONFIGURATION







7.1.5 Test Procedure

- EUT was placed on a 0.8 meter(For frequency above 1G, EUT should be placed on 1.5m) high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50 meter. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 3. The EUT is then put into continuously transmitting mode at its maximum power level during the test.Set Test Receiver or Spectrum RBW=1MHz,VBW=3MHz, And the maximum value of the receiver should be recorded as (P_r).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (SG Level) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (SG Level) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

 A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Cable Loss) ,the Substitution Antenna Gain should be recorded after test. The measurement results are obtained as described below: Power(EIRP)= SG Level- Cable Loss+ Antenna Gain

- 6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 7. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.



7.1.6 Test Results

EUT:	Gaia	Model No.:	D601L
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS850/ GSM/GPRS/EGPRS 1900 UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Eileen Liu

Radiated Spurious Emission

			GSN	/ 850			
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
		Test Res	sults for Cha	nnel 128/824	4.2 MHz		
1648.4	-54.15	2.80	27.50	-29.45	-13	-16.45	Vertical
1648.4	-53.29	2.80	27.50	-28.59	-13	-15.59	Horizontal
2472.6	-51.85	2.91	27.80	-26.96	-13	-13.96	Vertical
2472.6	-53.98	2.91	27.80	-29.09	-13	-16.09	Horizontal
3296.8	-55.57	4.02	29.87	-29.72	-13	-16.72	Vertical
3296.8	-51.27	4.02	29.87	-25.42	-13	-12.42	Horizontal
		Test Res	sults for Cha	nnel 190/830	6.6 MHz		
1673.2	-52.23	2.80	27.48	-27.55	-13	-14.55	Vertical
1673.2	-53.64	2.80	27.48	-28.96	-13	-15.96	Horizontal
2509.8	-53.27	2.91	27.70	-28.48	-13	-15.48	Vertical
2509.8	-53.44	2.91	27.70	-28.65	-13	-15.65	Horizontal
3346.4	-52.97	4.02	29.82	-27.17	-13	-14.17	Vertical
3346.4	-53.26	4.02	29.82	-27.46	-13	-14.46	Horizontal
		Test Res	sults for Cha	nnel 251/848	8.8 MHz		
1697.6	-52.45	2.80	27.42	-27.83	-13	-14.83	Vertical
1697.6	-52.69	2.80	27.42	-28.07	-13	-15.07	Horizontal
2546.4	-53.26	2.91	27.68	-28.49	-13	-15.49	Vertical
2546.4	-53.82	2.91	27.68	-29.05	-13	-16.05	Horizontal
3395.2	-51.12	4.02	29.80	-25.34	-13	-12.34	Vertical
3395.2	-52.64	4.02	29.80	-26.86	-13	-13.86	Horizontal

Remark:

1. We were tested all Configuration refer 3GPP TS134 121.

2. Absolute Level = SG Level- Cable Loss+ Antenna Gain

3. Over Limit= Absolute Level (dBm)-Limit(dBm)



			GPR	S 850			
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
		Test Res	sults for Cha	nnel 128/824	4.2 MHz		
1648.4	-52.98	2.80	27.50	-28.28	-13	-15.28	Vertical
1648.4	-53.64	2.80	27.50	-28.94	-13	-15.94	Horizonta
2472.6	-52.24	2.91	27.80	-27.35	-13	-14.35	Vertical
2472.6	-51.47	2.91	27.80	-26.58	-13	-13.58	Horizontal
3296.8	-52.26	4.02	29.87	-26.41	-13	-13.41	Vertical
3296.8	-53.64	4.02	29.87	-27.79	-13	-14.79	Horizonta
		Test Res	sults for Cha	nnel 190/830	6.6 MHz		
1673.2	-54.47	2.80	27.48	-29.79	-13	-16.79	Vertical
1673.2	-51.85	2.80	27.48	-27.17	-13	-14.17	Horizonta
2509.8	-53.26	2.91	27.70	-28.47	-13	-15.47	Vertical
2509.8	-52.68	2.91	27.70	-27.89	-13	-14.89	Horizonta
3346.4	-51.17	4.02	29.82	-25.37	-13	-12.37	Vertical
3346.4	-53.62	4.02	29.82	-27.82	-13	-14.82	Horizonta
		Test Res	sults for Cha	nnel 251/848	8.8 MHz		
1697.6	-51.14	2.80	27.42	-26.52	-13	-13.52	Vertical
1697.6	-49.97	2.80	27.42	-25.35	-13	-12.35	Horizonta
2546.4	-49.14	2.91	27.68	-24.37	-13	-11.37	Vertical
2546.4	-51.62	2.91	27.68	-26.85	-13	-13.85	Horizonta
3395.2	-53.64	4.02	29.80	-27.86	-13	-14.86	Vertical
3395.2	-54.47	4.02	29.80	-28.69	-13	-15.69	Horizonta

We were tested all Configuration refer 3GPP TS134 121.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain

3. Over Limit= Absolute Level (dBm)-Limit(dBm)
4.We test both H direction and V direction, recorded worst case direction.



			EGPF	RS 850						
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity			
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)				
	Test Results for Channel 128/824.2 MHz									
1648.4	-52.26	2.80	27.50	-27.56	-13	-14.56	Vertical			
1648.4	-52.34	2.80	27.50	-27.64	-13	-14.64	Horizonta			
2472.6	-54.14	2.91	27.80	-29.25	-13	-16.25	Vertical			
2472.6	-53.69	2.91	27.80	-28.8	-13	-15.80	Horizonta			
3296.8	-52.97	4.02	29.87	-27.12	-13	-14.12	Vertical			
3296.8	-52.47	4.02	29.87	-26.62	-13	-13.62	Horizonta			
		Test Re	sults for Cha	nnel 190/83	6.6 MHz					
1673.2	-51.12	2.80	27.48	-26.44	-13	-13.44	Vertical			
1673.2	-49.98	2.80	27.48	-25.30	-13	-12.30	Horizonta			
2509.8	-53.36	2.91	27.70	-28.57	-13	-15.57	Vertical			
2509.8	-54.16	2.91	27.70	-29.37	-13	-16.37	Horizonta			
3346.4	-53.21	4.02	29.82	-27.41	-13	-14.41	Vertical			
3346.4	-49.97	4.02	29.82	-24.17	-13	-11.17	Horizonta			
		Test Re	sults for Cha	nnel 251/848	8.8 MHz					
1697.6	-49.85	2.80	27.42	-25.23	-13	-12.23	Vertical			
1697.6	-48.74	2.80	27.42	-24.12	-13	-11.12	Horizonta			
2546.4	-54.63	2.91	27.68	-29.86	-13	-16.86	Vertical			
2546.4	-52.62	2.91	27.68	-27.85	-13	-14.85	Horizonta			
3395.2	-54.34	4.02	29.80	-28.56	-13	-15.56	Vertical			
3395.2	-50.57	4.02	29.80	-24.79	-13	-11.79	Horizonta			

1. We were tested all Configuration refer 3GPP TS134 121.

Absolute Level = SG Level- Cable Loss+ Antenna Gain
 Over Limit= Absolute Level (dBm)-Limit(dBm)



			GSM	1900			
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
		Test Res	sults for Cha	nnel 512/18	50.2MHz		
3700.4	-54.63	4.04	33.51	-25.16	-13	-12.16	Vertical
3700.4	-55.57	4.04	33.51	-26.10	-13	-13.10	Horizontal
5550.6	-54.19	5.24	35.84	-23.59	-13	-10.59	Vertical
5550.6	-52.58	5.24	35.84	-21.98	-13	-8.98	Horizontal
		Test Res	sults for Cha	nnel 661/188	30.0MHz		
3760	-53.32	4.04	33.56	-23.80	-13	-10.80	Vertical
3760	-55.56	4.04	33.56	-26.04	-13	-13.04	Horizontal
5640	-54.47	5.24	35.91	-23.80	-13	-10.80	Vertical
5640	-54.12	5.24	35.91	-23.45	-13	-10.45	Horizontal
		Test Res	sults for Cha	nnel 810/190	9.8MHz		
3819.6	-53.62	4.04	34.00	-23.66	-13	-10.66	Vertical
3819.6	-55.52	4.04	34.00	-25.56	-13	-12.56	Horizontal
5729.4	-53.19	5.24	36.04	-22.39	-13	-9.39	Vertical
5729.4	-53.62	5.24	36.04	-22.82	-13	-9.82	Horizontal

We were tested all Configuration refer 3GPP TS134 121.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain

3. Over Limit= Absolute Level (dBm)-Limit(dBm)
4.We test both H direction and V direction, recorded worst case direction.



			GPRS	S 1900			
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
		Test Res	sults for Cha	nnel 512/185	50.2MHz		
3700.4	-53.64	4.04	33.51	-24.17	-13	-11.17	Vertical
3700.4	-53.41	4.04	33.51	-23.94	-13	-10.94	Horizontal
5550.6	-52.64	5.24	35.84	-22.04	-13	-9.04	Vertical
5550.6	-54.49	5.24	35.84	-23.89	-13	-10.89	Horizontal
		Test Res	sults for Cha	nnel 661/188	30.0MHz		
3760	-52.12	4.04	33.56	-22.60	-13	-9.60	Vertical
3760	-52.67	4.04	33.56	-23.15	-13	-10.15	Horizontal
5640	-52.17	5.24	35.91	-21.50	-13	-8.50	Vertical
5640	-55.56	5.24	35.91	-24.89	-13	-11.89	Horizontal
		Test Res	sults for Cha	nnel 810/190)9.8MHz		
3819.6	-53.62	4.04	34.00	-23.66	-13	-10.66	Vertical
3819.6	-54.48	4.04	34.00	-24.52	-13	-11.52	Horizontal
5729.4	-55.58	5.24	36.04	-24.78	-13	-11.78	Vertical
5729.4	-52.64	5.24	36.04	-21.84	-13	-8.84	Horizontal

1. We were tested all Configuration refer 3GPP TS134 121.

Absolute Level = SG Level- Cable Loss+ Antenna Gain
 Over Limit= Absolute Level (dBm)-Limit(dBm)



			EGPR	S 1900			
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
		Test Res	sults for Cha	nnel 512/185	50.2MHz		
3700.4	-52.69	4.04	33.51	-23.22	-13	-10.22	Vertical
3700.4	-54.41	4.04	33.51	-24.94	-13	-11.94	Horizontal
5550.6	-53.98	5.24	35.84	-23.38	-13	-10.38	Vertical
5550.6	-53.57	5.24	35.84	-22.97	-13	-9.97	Horizontal
		Test Res	sults for Cha	nnel 661/188	30.0MHz		
3760	-55.54	4.04	33.56	-26.02	-13	-13.02	Vertical
3760	-53.64	4.04	33.56	-24.12	-13	-11.12	Horizontal
5640	-56.67	5.24	35.91	-26.00	-13	-13.00	Vertical
5640	-54.41	5.24	35.91	-23.74	-13	-10.74	Horizontal
		Test Res	sults for Cha	nnel 810/190)9.8MHz		
3819.6	-56.59	4.04	34.00	-26.63	-13	-13.63	Vertical
3819.6	-54.48	4.04	34.00	-24.52	-13	-11.52	Horizontal
5729.4	-55.57	5.24	36.04	-24.77	-13	-11.77	Vertical
5729.4	-56.59	5.24	36.04	-25.79	-13	-12.79	Horizontal

1. We were tested all Configuration refer 3GPP TS134 121.

Absolute Level = SG Level- Cable Loss+ Antenna Gain
 Over Limit= Absolute Level (dBm)-Limit(dBm)



			WCDMA	Band II			
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
		Test Res	ults for Char	nel 9262/18	52.4MHz		
3700.8	-56.59	4.04	33.51	-27.12	-13	-14.12	Vertical
3700.8	-57.41	4.04	33.51	-27.94	-13	-14.94	Horizontal
5551.2	-55.52	5.24	35.84	-24.92	-13	-11.92	Vertical
5551.2	-53.62	5.24	35.84	-23.02	-13	-10.02	Horizontal
		Test Re	sults for Cha	nnel 9400/18	880MHz		
3760	-56.61	4.04	33.56	-27.09	-13	-14.09	Vertical
3760	-54.15	4.04	33.56	-24.63	-13	-11.63	Horizontal
5640	-52.98	5.24	35.91	-22.31	-13	-9.31	Vertical
5640	-54.47	5.24	35.91	-23.80	-13	-10.80	Horizontal
		Test Res	ults for Char	nel 9538/19	07.6MHz		
3819.2	-56.32	4.04	34.00	-26.36	-13	-13.36	Vertical
3819.2	-52.61	4.04	34.00	-22.65	-13	-9.65	Horizontal
5728.8	-56.64	5.24	36.04	-25.84	-13	-12.84	Vertical
5728.8	-54.49	5.24	36.04	-23.69	-13	-10.69	Horizontal

1. We were tested all Configuration refer 3GPP TS134 121.

Absolute Level = SG Level- Cable Loss+ Antenna Gain
 Over Limit= Absolute Level (dBm)-Limit(dBm)



			WCDMA	Band V			
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
		Test Res	sults for Cha	nnel 4233/84	16.6MHz		
1673.2	-53.64	2.80	27.50	-28.94	-13	-15.94	Vertical
1673.2	-53.34	2.80	27.50	-28.64	-13	-15.64	Horizonta
2509.8	-51.74	2.91	27.80	-26.85	-13	-13.85	Vertical
2509.8	-55.58	2.91	27.80	-30.69	-13	-17.69	Horizontal
3346.4	-52.69	4.02	29.87	-26.84	-13	-13.84	Vertical
3346.4	-52.64	4.02	29.87	-26.79	-13	-13.79	Horizontal
		Test Res	sults for Cha	nnel 4182/83	36.4MHz		
1672.8	-49.97	2.80	27.48	-25.29	-13	-12.29	Vertical
1672.8	-53.64	2.80	27.48	-28.96	-13	-15.96	Horizonta
2509.2	-54.47	2.91	27.70	-29.68	-13	-16.68	Vertical
2509.2	-53.21	2.91	27.70	-28.42	-13	-15.42	Horizontal
3345.6	-51.98	4.02	29.82	-26.18	-13	-13.18	Vertical
3345.6	-53.65	4.02	29.82	-27.85	-13	-14.85	Horizontal
		Test Res	sults for Cha	nnel 4132/82	26.4MHz		
1652.8	-57.74	2.80	27.42	-33.12	-13	-20.12	Vertical
1652.8	-51.14	2.80	27.42	-26.52	-13	-13.52	Horizonta
2479.2	-53.62	2.91	27.68	-28.85	-13	-15.85	Vertical
2479.2	-55.58	2.91	27.68	-30.81	-13	-17.81	Horizontal
3305.6	-54.48	4.02	29.80	-28.70	-13	-15.70	Vertical
3305.6	-53.62	4.02	29.80	-27.84	-13	-14.84	Horizonta

We were tested all Configuration refer 3GPP TS134 121.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain

3. Over Limit= Absolute Level (dBm)-Limit(dBm)
4.We test both H direction and V direction, recorded worst case direction.



	WCDMA Band IV								
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)			
		Test Res	ults for Char	nel 1312/17	12.4MHz				
3424.8	-52.26	4.02	29.80	-26.48	-13	-13.48	Vertical		
3424.8	-54.41	4.02	29.80	-28.63	-13	-15.63	Horizontal		
5137.2	-53.98	5.24	35.84	-23.38	-13	-10.38	Vertical		
5137.2	-53.62	5.24	35.84	-23.02	-13	-10.02	Horizontal		
		Test Res	ults for Char	nel 1412/17	32.4MHz				
3464.8	-51.14	4.03	30.00	-25.17	-13	-12.17	Vertical		
3464.8	-55.52	4.03	30.00	-29.55	-13	-16.55	Horizontal		
5197.2	-51.98	5.25	35.86	-21.37	-13	-8.37	Vertical		
5197.2	-53.64	5.25	35.86	-23.03	-13	-10.03	Horizontal		
		Test Res	ults for Char	nel 1513/17	52.6MHz				
3505.2	-55.47	2.91	27.68	-30.7	-13	-17.70	Vertical		
3505.2	-52.24	2.91	27.68	-27.47	-13	-14.47	Horizontal		
5257.8	-54.41	5.26	35.86	-23.81	-13	-10.81	Vertical		
5257.8	-53.62	5.26	35.86	-23.02	-13	-10.02	Horizontal		

We were tested all Configuration refer 3GPP TS134 121.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain

3. Over Limit= Absolute Level (dBm)-Limit(dBm)



7.2 EFFECTIVE RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

7.2.1 Applicable Standard

According to FCC KDB 971168 D01 v03 Section 5.2.1/ Section 5.2.2.2 and ANSI/TIA-603-E-2016 Section 2.2.17

7.2.2 Conformance Limit

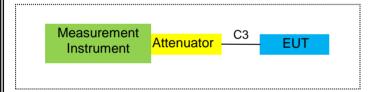
The substitution method, in ANSI/TIA-603-E-2016, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v03. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band).

7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

(a) For E.R.P and E.I.R.P Measurements



7.2.5 Test Procedure

The measurements procedures specified in ANSI/TIA-603-E-2016 were applied.

In an anechoic antenna test chamber, a half-wave dipole antenna for the frequency band of interest is placed at the reference centre of the chamber. An RF Signal source for the frequency band of interest is connected to the dipole with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A known (measured) power (Pin) is applied to the input of the dipole, and the power received (Pr) at the chamber's probe antenna is recorded.

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

ERP/EIRP = SGLevel -Pcl +Ga

where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as SGLevel, typically dBW or dBm);

SGLevel = Signal generator output power or PSD, in dBm or dBW;

Ga = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

Pcl = signal attenuation in the connecting cable between the transmitter and antenna, in dB.²

The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.

From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.

The EUT is then put into continuously transmitting mode at its maximum power level.



Power mode measurements are performed with the receiving antenna placed at the coordinates determined in Step 3 to determine the output power as defined in Rule 24.232 (b) and (c). The "reference path loss" from Step1 is added to this result.

This value is EIRP since the measurement is calibrated using a half-wave dipole antenna of known gain (2.15 dBi) and known input power (Pin).

ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

Substitution antenna and Receiving Antenna:

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Character	Note
1	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Receiving Antenna
2	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Receiving Antenna
3	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Substitution antenna
4	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Substitution antenna

Use the following spectrum analyzer settings:

bee the following spectrum analyzer settings.							
	GSM/GPRS/EGPRS	UMTS band					
Span	500KHz	10MHz					
RBW	10KHz	300KHz					
VBW	30KHz	1MHz					
Detector	RMS	RMS					
Trace	Average	Average					
Average Type	Power	Power					
Sweep Count	100	100					



7.2.6 Test Results

EUT:	Gaia	Model No.:	D601L
Temperature:	20 ℃	Relative Humidity:	48%
	GSM/GPRS/EGPRS850/ GSM/GPRS/EGPRS 1900 UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Eileen Liu

Effective Radiated Power

	Radiated Power (ERP) for GSM850										
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP				
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)				
824.2	Н	11.09	2.11	23.84	2.15	30.67	1.16681				
836.6	Н	11.24	2.13	23.15	2.15	30.11	1.02565				
848.8	Н	11.74	2.13	23.06	2.15	30.52	1.12720				
824.2	V	11.03	2.11	23.11	2.15	29.88	0.97275				
836.6	V	11.52	2.13	23.07	2.15	30.31	1.07399				
848.8	V	11.09	2.13	23.25	2.15	30.06	1.01391				

	Radiated Power (ERP) for GPRS850									
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP			
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)			
824.2	Н	11.05	2.11	23.84	2.15	30.63	1.15611			
836.6	Н	10.97	2.13	23.15	2.15	29.84	0.96383			
848.8	Н	11.14	2.13	23.06	2.15	29.92	0.98175			
824.2	V	11.23	2.11	23.11	2.15	30.08	1.01859			
836.6	V	11.42	2.13	23.07	2.15	30.21	1.04954			
848.8	V	11.29	2.13	23.25	2.15	30.26	1.06170			

	Radiated Power (ERP) for EGPRS850									
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP			
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)			
824.2	Н	6.03	2.11	23.84	2.15	25.61	0.36392			
836.6	Н	6.41	2.13	23.15	2.15	25.28	0.33729			
848.8	Н	6.27	2.13	23.06	2.15	25.05	0.31989			
824.2	V	6.11	2.11	23.11	2.15	24.96	0.31333			
836.6	V	6.19	2.13	23.07	2.15	24.98	0.31477			
848.8	V	6.62	2.13	23.25	2.15	25.59	0.36224			



	Radiated Power (ERP) for UMTS band V									
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP			
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)			
826.4	Н	0.69	2.11	23.84	2.15	20.27	0.10641			
835.0	Н	0.71	2.13	23.15	2.15	19.58	0.09078			
846.6	Н	0.85	2.13	23.06	2.15	19.63	0.09183			
826.4	V	1.14	2.11	23.11	2.15	19.99	0.09977			
835.0	V	1.52	2.13	23.07	2.15	20.31	0.10740			
846.6	V	1.34	2.13	23.25	2.15	20.31	0.10740			

Note:

SG Level= Signal generator output Pcl= cable loss Ga= Antenna Gain Peak EIRP(dBm)= SGLevel -Pcl +Ga ERP(dBm)=EIRP-2.15



Effective Isotropic Radiated Power

	Radiated Power (E.I.R.P) for GSM1900								
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP			
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)			
1850.2	Н	4.59	3.76	28.24	29.07	0.80724			
1880.0	Н	4.75	3.91	28.22	29.06	0.80538			
1909.8	Н	4.66	3.93	28.20	28.93	0.78163			
1850.2	V	4.98	3.76	27.32	28.54	0.71450			
1880.0	V	5.23	3.91	27.33	28.65	0.73282			
1909.8	V	5.67	3.93	27.31	29.05	0.80353			

	Radiated Power (E.I.R.P) for GPRS1900								
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP			
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)			
1850.2	Н	4.52	3.76	28.24	29.00	0.79433			
1880.0	Н	4.81	3.91	28.22	29.12	0.81658			
1909.8	Н	4.67	3.93	28.20	28.94	0.78343			
1850.2	V	4.69	3.76	27.32	28.25	0.66834			
1880.0	V	4.87	3.91	27.33	28.29	0.67453			
1909.8	V	4.91	3.93	27.31	28.29	0.67453			

	Radiated Power (E.I.R.P) for EGPRS1900								
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP			
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)			
1850.2	Н	1.12	3.76	28.24	25.60	0.36308			
1880.0	Н	1.35	3.91	28.22	25.66	0.36813			
1909.8	Н	1.47	3.93	28.20	25.74	0.37497			
1850.2	V	1.58	3.76	27.32	25.14	0.32659			
1880.0	V	1.98	3.91	27.33	25.4	0.34674			
1909.8	V	1.63	3.93	27.31	25.01	0.31696			



	Radiated Power (E.I.R.P) for UMTS band II					
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)
1852.4	Н	-2.03	3.76	28.24	22.45	0.17579
1880.0	Н	-2.64	3.91	28.22	21.67	0.14689
1907.6	Н	-2.11	3.93	28.20	22.16	0.16444
1852.4	V	-1.98	3.76	27.32	21.58	0.14388
1880.0	V	-1.74	3.91	27.33	21.68	0.14723
1907.6	V	-1.65	3.93	27.31	21.73	0.14894

	Radiated Power (E.I.R.P) for UMTS band ${ m IV}$					
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)
1712.4	Н	-2.52	3.13	27.63	21.98	0.15776
1732.4	Н	-2.63	3.27	27.61	21.71	0.14825
1752.6	Н	-2.47	3.30	27.60	21.83	0.15241
1712.4	V	-2.96	3.13	27.63	21.54	0.14256
1732.4	V	-2.84	3.27	27.61	21.50	0.14125
1752.6	V	-2.64	3.30	27.60	21.66	0.14655

Note:

SG Level= Signal generator output Pcl= cable loss Ga= Antenna Gain Peak EIRP(dBm)= SGLevel –Pcl+Ga.



7.3 CONDUCTED OUTPUT POWER

7.3.1 Applicable Standard

According to FCC Part 2.1046 and FCC Part 22.913(a)(2) and FCC Part 24.232(c) and FCC KDB 971168 D01 v03 Section 5.2

7.3.2 Conformance Limit

Extend coverage on a secondary basis into cellular unserved areas, as those areas are defined in §22.949, the ERP of base transmitters and cellular repeaters of such systems must not exceed 1000 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts(38.5dBm).

Mobile and portable stations are limited to 2 watts (33dBm)EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. The frequency band is set as selected frequency, The RF output of the transmitter was connected to base station simulator.

Set EUT at maximum average power by base station simulator.

Set RBW = 1-5% of the OBW, not to exceed 1 MHz.

Set VBW \geq 3 × RBW.

Number of points in sweep \geq 2 × span / RBW. (This gives bin-to-bin spacing \leq RBW/2, so that narrowband signals are not lost between frequency bins.)

Sweep time = auto.

Detector = RMS (power averaging).

Set sweep trigger to "free run".

Trace average at least 100 traces in power averaging (i.e., RMS) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the on and off periods of the transmitter.

Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10 log (1/0.25) = 6 dB if the duty cycle is a constant 25%.

Measure lowest, middle, and highest channels for each bandwidth and different modulation. Measure and record the results in the test report.



7.3.6 Test Results

EUT:	Gaia	Model No.:	D601L
Temperature:	20 ℃	Relative Humidity:	48%
	GSM/GPRS/EGPRS850/ GSM/GPRS/EGPRS 1900 UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Eileen Liu

Output Power for GSM850

Mode	Frequency	Maximum Burst-Average Output Power
	(MHz)	
	824.2	32.15
GSM850	836.6	32.21
	848.8	32.16
GPRS850	824.2	32.13
(1 Slot)	836.6	32.18
	848.8	32.17
GPRS850	824.2	29.34
(2 Slot)	836.6	29.68
ſ	848.8	29.72
GPRS850	824.2	26.95
(3 Slot)	836.6	27.37
	848.8	27.61
GPRS850	824.2	26.30
(4 Slot)	836.6	26.41
	848.8	26.76
EGPRS850	824.2	26.98
(1 Slot)	836.6	27.07
	848.8	27.17
EGPRS850	824.2	25.46
(2 Slot)	836.6	25.68
	848.8	25.78
EGPRS850	824.2	24.21
(3 Slot)	836.6	24.31
Ē	848.8	24.53
EGPRS850	824.2	24.00
(4 Slot)	836.6	24.19
	848.8	24.31



Output Power for PCS1900

Mode	Frequency	Maximum Burst-Average
mode	(MHz)	Output Power
	1850.2	29.81
GSM1900	1880	29.47
Γ	1909.8	29.51
GPRS1900	1850.2	29.81
(1 Slot)	1880	29.46
Γ	1909.8	29.51
GPRS1900	1850.2	27.74
(2 Slot)	1880	27.78
Γ	1909.8	27.79
GPRS1900	1850.2	25.47
(3 Slot)	1880	25.61
Γ	1909.8	25.76
GPRS1900	1850.2	24.41
(4 Slot)	1880	24.61
Γ	1909.8	24.79
EGPRS1900	1850.2	26.42
(1 Slot)	1880	26.41
Γ	1909.8	26.51
EGPRS1900	1850.2	25.48
(2 Slot)	1880	25.45
	1909.8	25.65
EGPRS1900	1850.2	24.09
(3 Slot)	1880	24.07
Γ	1909.8	24.21
EGPRS1900	1850.2	23.64
(4 Slot)	1880	23.65
F	1909.8	23.96

N/A: Not Applicable



ode	Frequency(MHz)	Maximum Burst-Average Output Power
WCDMA 1900	1852.4	23.95
RMC	1880	23.87
NINO	1907.6	23.93
WCDMA 1900	1852.4	23.89
AMR	1880	23.91
AMIN	1907.6	23.94
HSDPA	1852.4	22.95
Subtest 1	1880	22.97
	1907.6	22.97
HSDPA	1852.4	22.56
Subtest 2	1880	22.48
Sublesi Z	1907.6	22.47
	1852.4	22.56
HSDPA	1880	22.49
Subtest 3	1907.6	22.46
	1852.4	22.49
HSDPA	1880	22.51
Subtest 4	1907.6	22.45
	1852.4	22.46
HSUPA	1880	22.51
Subtest 1		22.49
		22.43
HSUPA		22.49
Subtest 2	1907.6 1852.4 1880 1907.6 1852.4	22.52
		22.51
HSUPA -	1880	22.45
Subtest 3	1907.6	22.41
	1852.4	22.45
HSUPA	1880	22.52
Subtest 4	1907.6	22.38
	1852.4	22.89
HSUPA	1880	22.95
Subtest 5	1907.6	22.97
	1852.4	22.90
HSPA⁺	1880	22.72
	1907.6	22.81
	1852.4	22.85
DC-HSDPA	1880	22.79
Subtest 1	1907.6	22.71
	1852.4	22.41
DC-HSDPA	1880	22.31
Subtest 2	1907.6	22.30
	1852.4	22.38
DC-HSDPA	1880	22.28
Subtest 3	1907.6	22.28
	1852.4	22.45
DC-HSDPA	1880	22.30
Subtest 4	1907.6	22.31



ode	Frequency(MHz)	Maximum Burst-Average Output Power
WCDMA 850	826.4	22.77
RMC	835	22.59
RIVIC	846.6	22.73
	826.4	22.81
WCDMA 850	835	22.57
AMR	846.6	22.73
	826.4	21.76
HSDPA Subtest 1	835	21.56
Subtest	846.6	21.76
	826.4	21.27
HSDPA	835	21.04
Subtest 2	846.6	21.23
	826.4	21.25
HSDPA	835	21.05
Subtest 3	846.6	21.20
	826.4	21.22
HSDPA	835	21.03
Subtest 4	846.6	21.19
	826.4	21.22
HSUPA	835	21.04
Subtest 1	846.6	21.24
HSUPA	826.4	21.18
Subtest 2	835	21.05
	846.6	21.21
HSUPA	826.4	21.19
	835	21.01
Subtest 3	846.6	21.18
	826.4	21.25
HSUPA	835	21.11
Subtest 4	846.6	21.16
	826.4	21.76
HSUPA	835	21.52
Subtest 5	846.6	21.69
	826.4	21.71
HSPA⁺	835	21.38
	846.6	21.25
	826.4	21.62
DC-HSDPA	835	21.58
Subtest 1	846.6	21.72
	826.4	21.25
DC-HSDPA	835	21.10
Subtest 2	846.6	21.19
	826.4	21.24
DC-HSDPA	835	21.24
Subtest 3	846.6	21.03
	826.4	21.23
DC-HSDPA	835	21.23
Subtest 4	846.6	21.11



Output Power for UMTS BAND IV

ode	Frequency(MHz)	Maximum Burst-Average Output Power
WCDMA Band IV	1712.4	23.79
RMC	1732.4	23.91
RIVIC	1752.6	23.96
WCDMA Band IV	1712.4	22.81
	1732.4	23.88
AMR	1752.6	23.94
	1712.4	22.73
HSDPA – Subtest 1 –	1732.4	22.86
	1752.6	22.64
	1712.4	22.27
HSDPA	1732.4	22.39
Subtest 2	1752.6	22.27
	1712.4	22.26
HSDPA	1732.4	22.39
Subtest 3	1752.6	22.29
	1712.4	22.25
HSDPA -	1732.4	22.35
Subtest 4	1752.6	22.28
	1712.4	22.28
HSUPA -	1732.4	22.35
Subtest 1	1752.6	22.27
HSUPA	1712.4	22.25
Subtest 2	1732.4	22.28
	1752.6	22.25
	1712.4	22.27
HSUPA -	1732.4	22.31
Subtest 3	1752.6	22.31
	1712.4	22.21
HSUPA -	1732.4	22.41
Subtest 4	1752.6	22.21
	1712.4	22.69
HSUPA –	1732.4	22.79
Subtest 5	1752.6	22.68
	1712.4	22.52
HSPA⁺	1732.4	22.76
	1752.6	22.69
	1712.4	22.68
DC-HSDPA	1732.4	22.89
Subtest 1	1752.6	22.65
	1712.4	22.22
DC-HSDPA	1732.4	22.42
Subtest 2	1752.6	22.92
	1712.4	22.25
DC-HSDPA	1732.4	22.25
Subtest 3	1752.6	22.35
	1712.4	22.16
DC-HSDPA	1732.4	22.20
Subtest 4	1752.6	22.39



7.4 FREQUENCY STABILITY

7.4.1 Applicable Standard

According to FCC Part 2.1055 and FCC Part 22.355 and FCC Part 24.235 and FCC KDB 971168 D01 Section 9.0

7.4.2 Conformance Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. MS TXPWR_MAX_CCH is set to the maximum value supported by the Power Class of the Mobile under test.

EUT was placed at temperature chamber and connected to an external power supply.

Temperature and voltage condition shall be tested to confirm frequency stability.

For Temperature Variation

- 1. The testing follows FCC KDB 971168 D01 v03 Section 9.0.
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- 3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

For Voltage Variation

- 1. The testing follows FCC KDB 971168 D01 v03 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

7.4.6 Test Results

EUT:	Gaia	Model No.:	D601L
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS850/ GSM/GPRS/EGPRS 1900 UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Eileen Liu
Results: PASS			

Frequency Error Against Voltage for GSM 850 band			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.66	21	0.0251	
3.85	11	0.0131	
4.43	19	0.0227	

Frequency Error Against Temperature for GSM 850 band				
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)		
-30	26	0.0311		
-20	21	0.0251		
-10	18	0.0215		
0	13	0.0155		
10	22	0.0263		
20	27	0.0323		
30	25	0.0299		
40	18	0.0215		
50	19	0.0227		

Frequency Error Against Voltage for GPRS850 band			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.66	15	0.0179	
3.85	14	0.0167	
4.43	16	0.0191	

Frequency Error Against Temperature for GPRS850 band		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	16	0.0191
-20	15	0.0179
-10	11	0.0131
0	19	0.0227
10	21	0.0251
20	24	0.0287
30	15	0.0179
40	14	0.0167
50	9	0.0108



Frequency Error Against Voltage for EGPRS850 band		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.66	14	0.0167
3.85	11	0.0131
4.43	9	0.0108

Frequency Error Against Temperature for EGPRS850 band		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	17	0.0203
-20	24	0.0287
-10	22	0.0263
0	19	0.0227
10	8	0.0096
20	10	0.0120
30	16	0.0191
40	11	0.0131
50	14	0.0167

Note:

- 1. Normal Voltage = 3.85V; Battery End Point (BEP) = 3.66V; Maximum Voltage =4.43V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Frequency Error Against Voltage for PCS 1900 band		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.66	12	0.0064
3.85	10	0.0053
4.43	15	0.0080

Frequency Error Against Temperature for PCS 1900 band		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	11	0.0059
-20	14	0.0074
-10	15	0.0080
0	19	0.0101
10	12	0.0064
20	16	0.0085
30	13	0.0069
40	11	0.0059
50	20	0.0106

Frequency Error Against Voltage for GPRS1900 band		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.66	27	0.0144
3.85	22	0.0117
4.43	12	0.0064

Frequency Error Against Temperature for GPRS1900 band		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	26	0.0138
-20	25	0.0133
-10	18	0.0096
0	17	0.0090
10	13	0.0069
20	21	0.0112
30	22	0.0117
40	26	0.0138
50	25	0.0133



Frequency Error Against Voltage for EGPRS1900 band		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.66	15	0.0080
3.85	14	0.0074
4.43	12	0.0064

Frequency Error Against Temperature for EGPRS1900 band		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	13	0.0069
-20	16	0.0085
-10	20	0.0106
0	21	0.0112
10	8	0.0043
20	17	0.0090
30	16	0.0085
40	15	0.0080
50	12	0.0064

Note:

- 1.
- Normal Voltage = 3.85V; Battery End Point (BEP) = 3.66V; Maximum Voltage =4.43V The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small. 2.



Frequency Error Against Voltage for UMTS band II		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.66	13	0.0069
3.85	8	0.0043
4.43	11	0.0059

Frequency Error Against Temperature for UMTS band II		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	22	0.0117
-20	17	0.0090
-10	15	0.0080
0	11	0.0059
10	16	0.0085
20	14	0.0074
30	12	0.0064
40	15	0.0080
50	18	0.0096

Frequency Error Against Voltage for UMTS band V		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.66	9	0.0108
3.85	11	0.0131
4.43	17	0.0203

Frequency Error Against Temperature for UMTS band V		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	15	0.0179
-20	11	0.0131
-10	16	0.0191
0	14	0.0167
10	17	0.0203
20	21	0.0251
30	9	0.0108
40	12	0.0143
50	13	0.0155



F	requency Error Against Voltage fo	r UMTS band IV
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.66	12	0.0069
3.85	18	0.0104
4.43	12	0.0069

Fre	quency Error Against Temperature	for UMTS band IV
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	20	0.0115
-20	15	0.0087
-10	13	0.0075
0	21	0.0121
10	15	0.0087
20	16	0.0092
30	12	0.0069
40	17	0.0098
50	14	0.0081

Note:

- Normal Voltage = 3.85V; Battery End Point (BEP) = 3.66V; Maximum Voltage =4.43V
 The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



7.5 PEAK-TO-AVERAGE RATIO

7.5.1 Applicable Standard

According to FCC 22.913 and FCC 24.232(d) and FCC KDB 971168 D01 Section 5.7.1

7.5.2 Conformance Limit

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set the number of counts to a value that stabilizes the measured CCDF curve.

Set the measurement interval to 1 ms.

Record the maximum PAPR level associated with a probability of 0.1%.

a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;

b) Set resolution/measurement bandwidth \geq signal's occupied bandwidth;

c) Set the number of counts to a value that stabilizes the measured CCDF curve;

d) Set the measurement interval as follows:

1) for continuous transmissions, set to 1 ms,

2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.

e) Record the maximum PAPR level associated with a probability of 0.1%.

7.5.6 Test Results

EUT:	Gaia	Model No.:	D601L
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/ EGPRS 850/ GSM/GPRS/ EGPRS 1900 /UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Eileen Liu
Results: PASS			



		Ce	ellular Band			
Modes		GSM850			GSM1900	
Channel	128 (Low)	190 (Mid)	251 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
Peak-to-Average Ratio (dB)	2.68	2.66	2.65	2.66	2.66	2.66

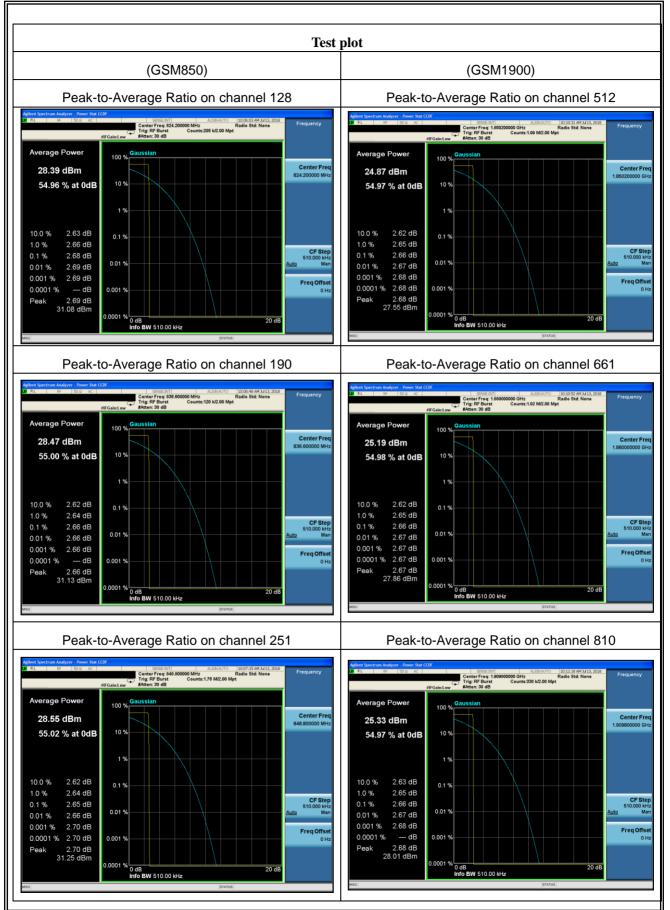
		Ce	ellular Band			
Modes		GPRS850)		GPRS1900	
Channel	128 (Low)	190 (Mid)	251 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
Peak-to-Average Ratio (dB)	2.69	2.69	2.70	2.66	2.66	2.67

		Ce	ellular Band			
Modes		EGPRS85	0		EGPRS1900	
Channel	128 (Low)	190 (Mid)	251 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
Peak-to-Average Ratio (dB)	5.62	5.53	5.52	5.47	5.54	5.75

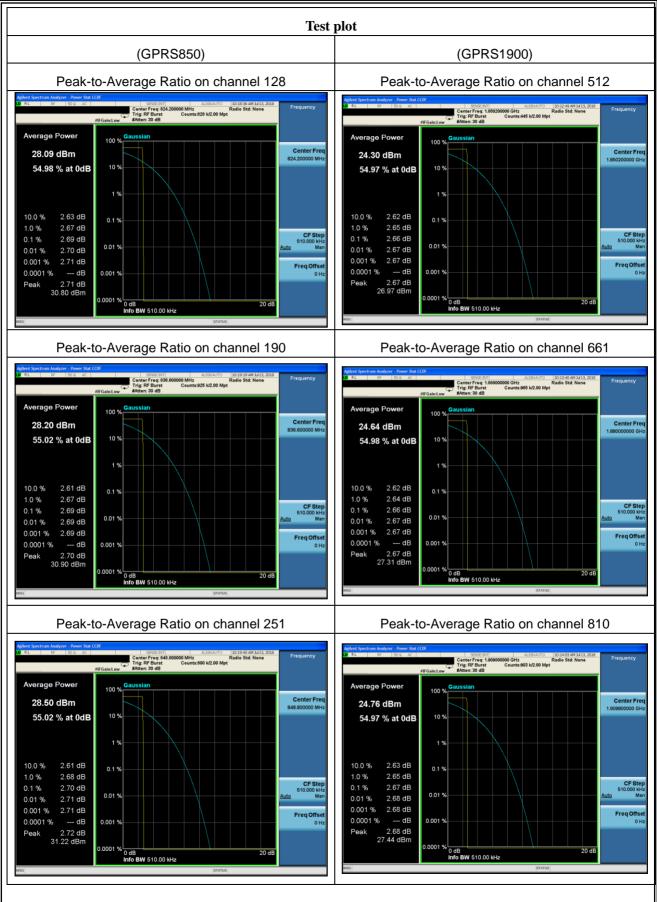
		U	MTS Band			
Modes		WCDMA Bar (RMC 12.2Kt			NCDMA Band RMC 12.2Kbp	
Channel	9262 (Low)	9400 (Mid)	9538 (High)	4132 (Low)	4175 (Mid)	4233 (High)
Frequency(MHz)	1852.4	1880	1907.6	826.4	836.6	846.6
Peak-to-Average Ratio (dB)	2.72	2.76	2.62	3.18	3.15	3.13

Modes		NCDMA Ban (RMC 12.2Kb	
Channel	1312 (Low)	1412 (Mid)	1513 (High)
Frequency(MHz)	1712.4	1732.6	1752.6
Peak-to-Average Ratio (dB)	3.19	2.74	3.19

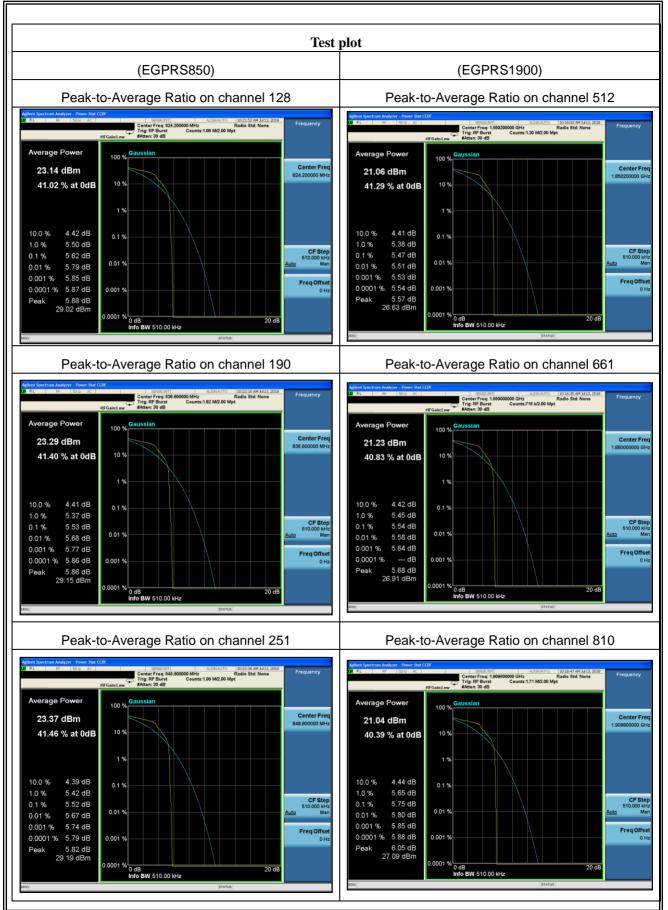




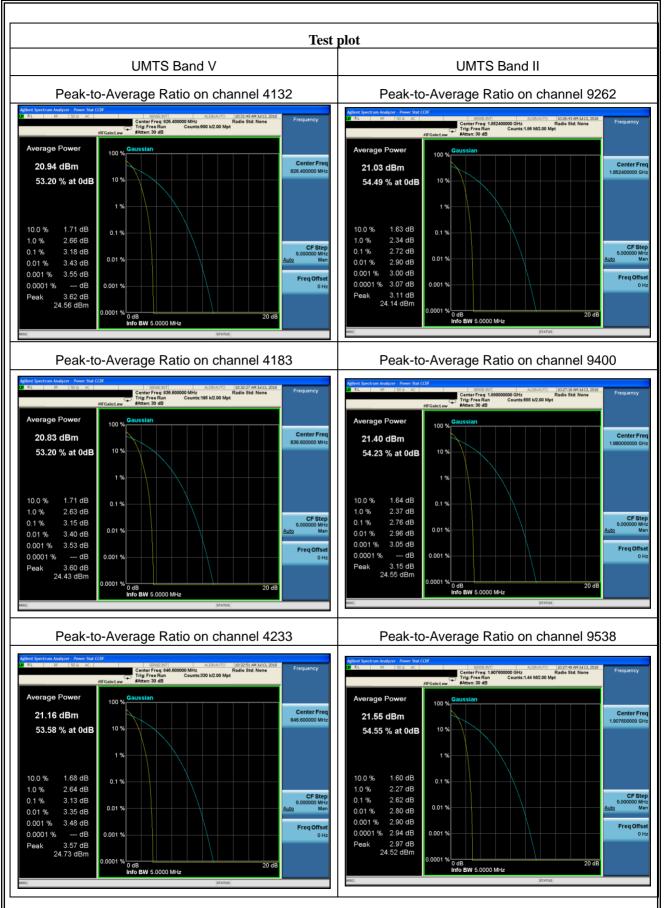




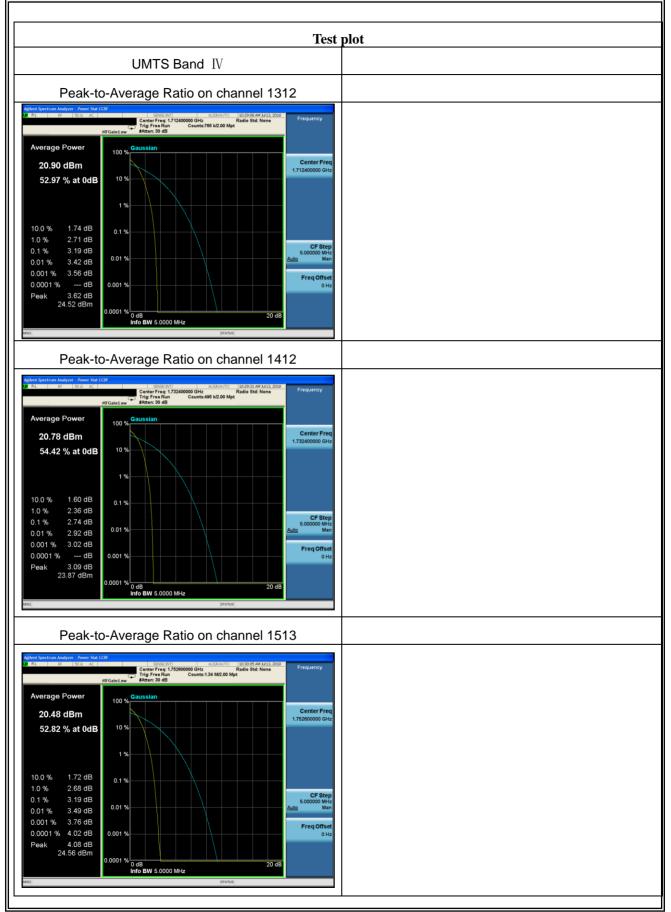














7.6 26DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

7.6.1 Applicable Standard

According to FCC Part 2.1049 and FCC Part 22H and FCC Part 24E and FCC KDB 971168 D01 Section 4.0

7.6.2 Conformance Limit

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 4.0.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.

The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.

Set the detection mode to peak, and the trace mode to max hold.

Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.

(this is the reference value)

Determine the "-26 dB down amplitude" as equal to (Reference Value – X).

Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

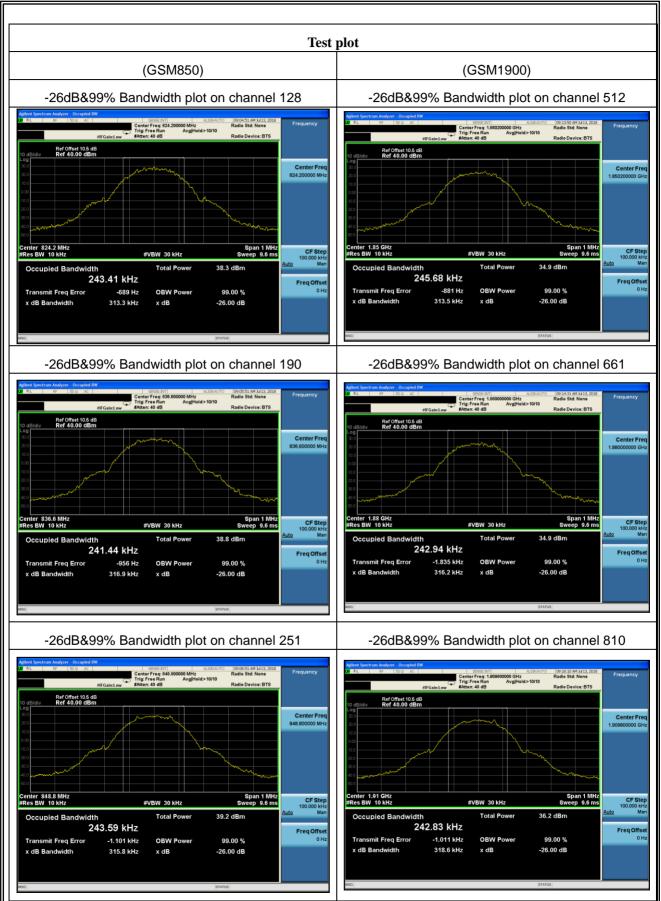


7.6.6 Test Results

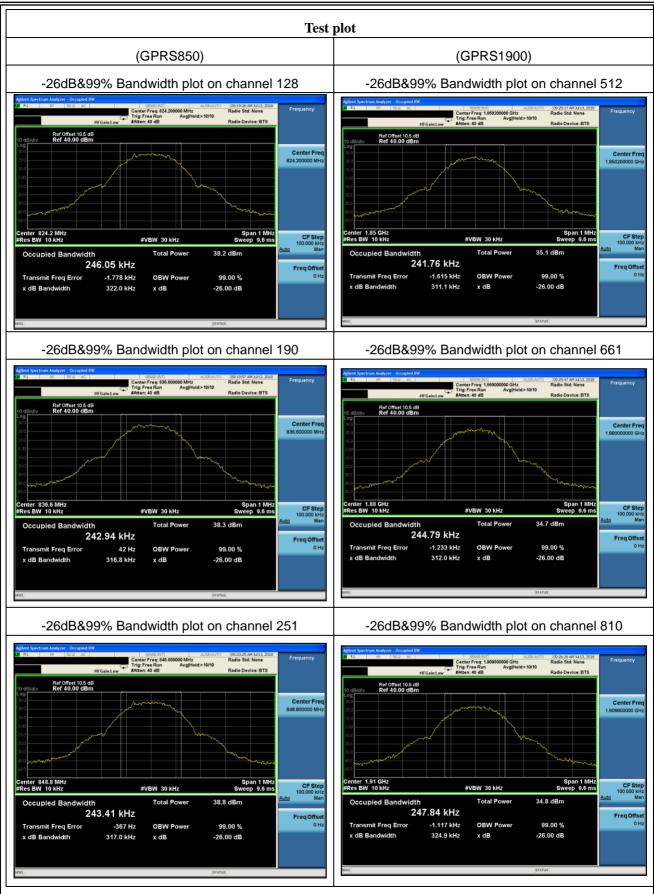
EUT:	Gaia	Model No.:	D601L
Temperature:	20 ℃	Relative Humidity:	48%
	GSM/GPRS/EGPRS 850/ GSM/GPRS/EGPRS 1900 /UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Eileen Liu
Results: PASS			

Operation Mode	Channel Number	Channel Frequency (MHz)	26dB Bandwidth (kHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Verdict
	128	824.2	313.3	243.41	N/A	PASS
GSM850	190	836.4	316.9	241.44	N/A	PASS
Γ	251	848.8	315.8	243.59	N/A	PASS
	512	1850.2	313.5	245.68	N/A	PASS
GSM1900	661	1880.0	316.2	242.94	N/A	PASS
Γ	810	1909.8	318.6	242.83	N/A	PASS
	128	824.2	322.0	246.05	N/A	PASS
GPRS850	190	836.4	316.8	242.94	N/A	PASS
	251	848.8	317.0	243.41	N/A	PASS
	512	1850.2	311.1	241.76	N/A	PASS
GPRS1900	661	1880.0	312.0	244.79	N/A	PASS
Γ	810	1909.8	324.9	247.84	N/A	PASS
	128	824.2	313.1	243.86	N/A	PASS
EGPRS850	190	836.4	307.0	243.46	N/A	PASS
Γ	251	848.8	309.0	246.79	N/A	PASS
	512	1850.2	319.1	244.45	N/A	PASS
EGPRS1900	661	1880.0	318.5	243.75	N/A	PASS
Γ	810	1909.8	312.6	243.40	N/A	PASS
UMTS Band	4132	826.4	4703	4133.6	N/A	PASS
	4183	836.4	4706	4128.9	N/A	PASS
v	4233	846.6	4699	4125.5	N/A	PASS
UMTS Band	9262	1852.4	4728	4144.2	N/A	PASS
II	9400	1880.0	4737	4150.2	N/A	PASS
	9538	1907.6	4732	4151.8	N/A	PASS
UMTS Band	1312	1712.4	4695	4122.4	N/A	PASS
IV IV	1412	1732.6	4726	4129.8	N/A	PASS
1V	1513	1752.6	4704	4131.4	N/A	PASS

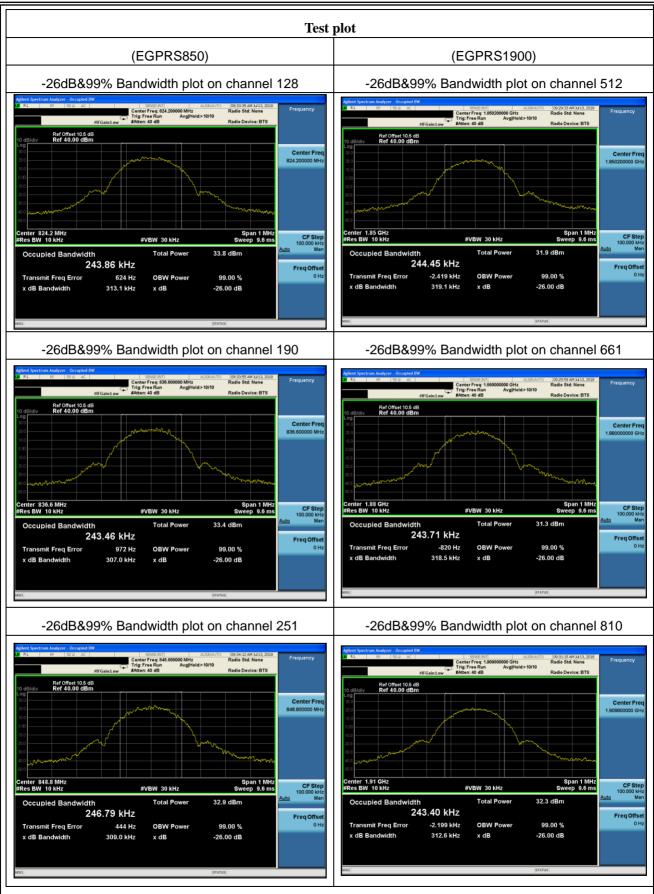




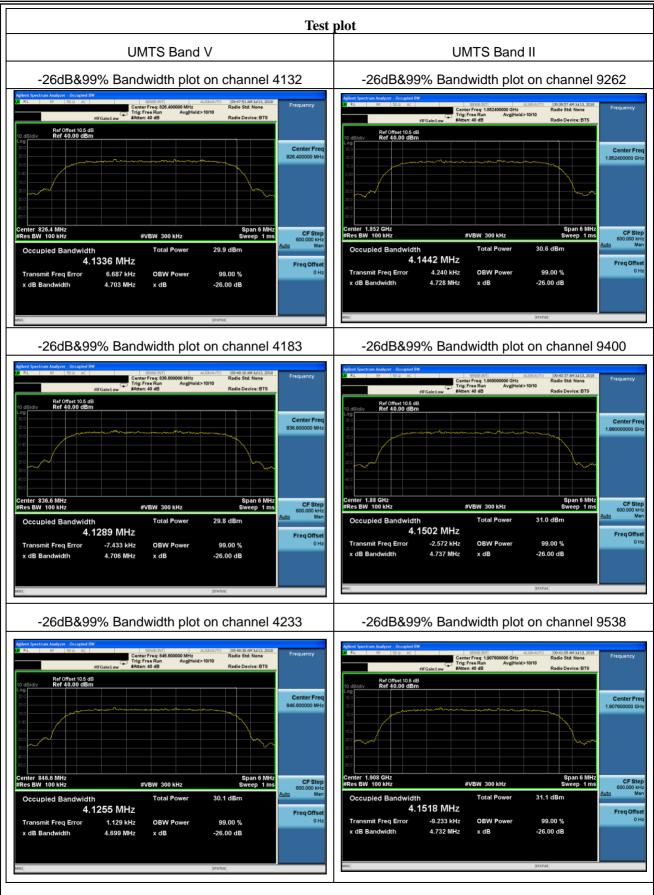




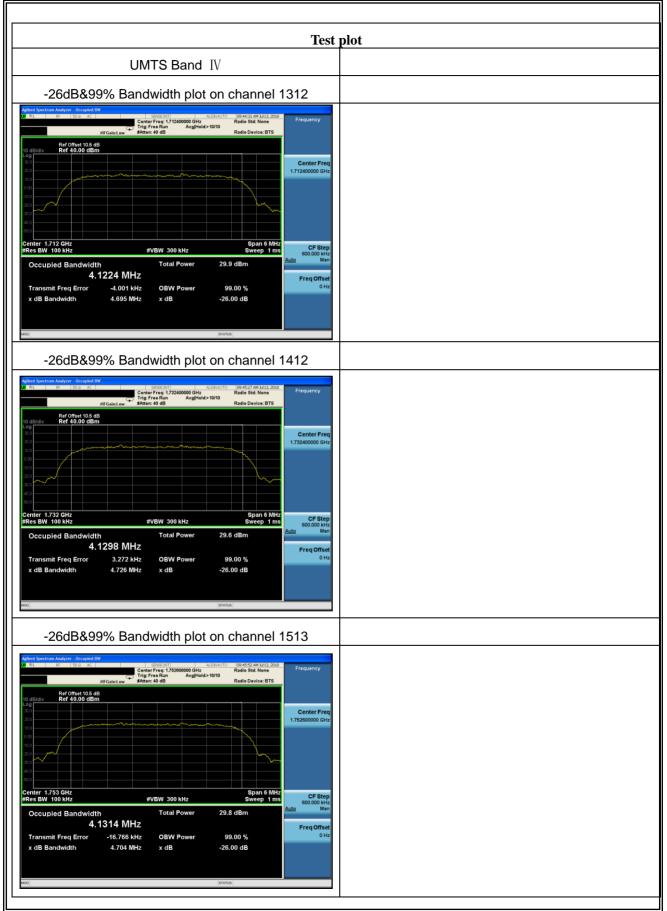














7.7 CONDUCTED BAND EDGE

7.7.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and 24.238(a) and FCC KDB 971168 D01 Section6.0

7.7.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P) dB$.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.0.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

The band edges of low and high channels for the highest RF powers were measured.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

= P(W) - [43 + 10log(P)] (dB)

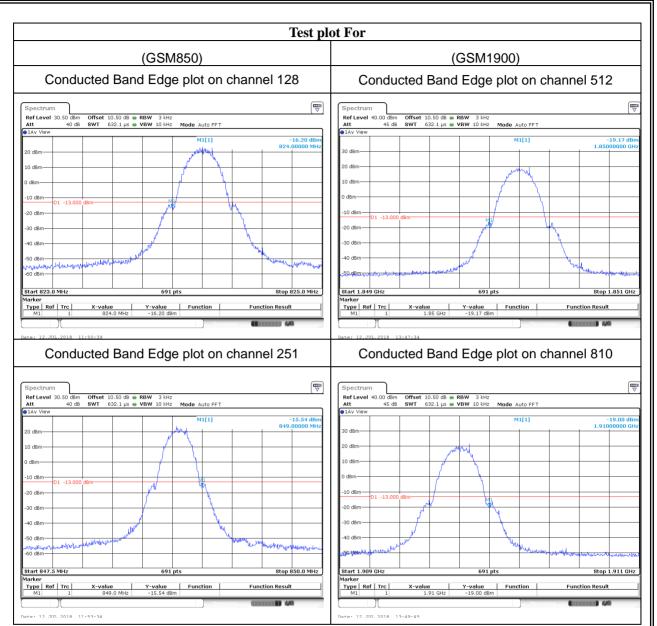
 $= [30 + 10\log(P)] (dBm) - [43 + 10\log(P)] (dB)$

= -13dBm.

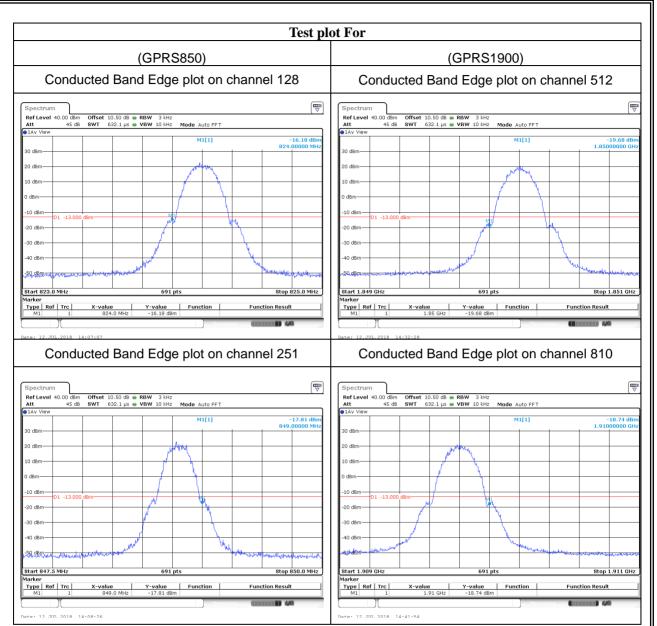
7.7.6 Test Results

EUT:	Gaia	Model No.:	D601L
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS850/ GSM/GPRS/EGPRS 1900/ UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Eileen Liu
Results: PASS			

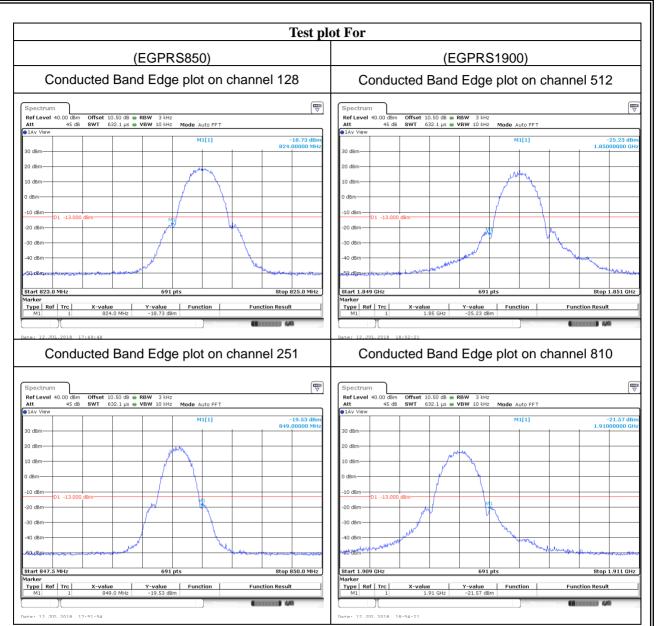














Test p	lot For
UMTS Band V	UMTS Band II
Conducted Band Edge plot on channel 4132	Conducted Band Edge plot on channel 9262
pectrum 🕎	Spectrum
efLevel 40.00 dBm Offset 10.50 dB ⊕ RBW 100 kHz [v] tt 45 dB SWT 18.9 µs ⊕ VBW 100 kHz Mode Auto FFT Av View	Ref Level 40.00 dBm Offset 10.50 dB RBW 30 kHz Att 45 dB SWT 63.1 µs VBW 30 kHz Att 45 dB SWT 63.1 µs VBW 30 kHz Att 45 dB SWT 63.1 µs VBW 30 kHz
M1[1] -14.29 dBm 823.99930 MHz	M1[1] -18.60 d 1.84999860 C
d8m	30 d8m.
d8m	10 dBm
Bm	0 dBm
d8m 01 -13.000 d8m //	-10 dBm 01 -13.000 dBm
d8m	-20 dBm
dBm	n30.dBm
d8m	-40 d8m
art 202 0 Militz 004 0 Militz	Shart 1 040 CHr. Chart 1 05 C
) (Massuring. () 19:06:22	Date: 4.JUL/2018 11:27:48
e: 12.00L.2018 19:06:22 Conducted Band Edge plot on channel 4233 pectrum ef Level 40.00 dbm Offset 10.50 db • RBW 100 kHz	Date: 4.JUL.2018 11:27:48 Conducted Band Edge plot on channel 9538 Spectrum Ref Level 40.00 dbm Offset 10.50 db • RBW 30 kHz
	Spectrum Offset 10.50 dB @ RBW 30 kHz Ref Level 40.00 dBm Offset 10.50 dB @ RBW 30 kHz Att 45 dB SWT 63.1 µS @ VBW 30 kHz
	Conducted Band Edge plot on channel 9538 Spectrum Ref Level 40.00 dbm Offset 10.50 dB RBW 30 kHz Att 45 dB SWT 63.1 µS VBW 30 kHz Mode Auto FFT -18.00 db
Image: Sector Image: Sector opectrum Image: Sector of Level 40.00 dbm Offset 10.50 db @ RBW 100 kHz t 45 db SWT 10.9 µs VBW 100 kHz t M1(1) 849.00070 MHz dBm dBm	Spectrum Milij
	Spectrum Milling Ref Level 40.00 dbm Offset 10.50 db @ RBW 30 kHz Att 45 db @ WT 63.1 µs VBW 30 kHz 01AV View 1.91000140 1.91000140 1.91000140 1.91000140 20 dbm 10 dbm 10 dbm 1.9100140 1.9100140
	Spectrum Milij -10 d8m 0 d8m -10 d8m -10 d8m
	Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 30 kHz Mode Auto FFT @1Av View -18.60 c 30 dbm -19.000140 10 dbm -19.000140
Image: 12,001.2018 19:06:22 Conducted Band Edge plot on channel 4233 Dectrum Image: 10:00 dbm Imag	Nate: 4.302, 2018 11:27:48 Conducted Band Edge plot on channel 9538 Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 30 kHz Att 45 dB @WT 63.1 µs View MI[1] -18.60 c 30 dBm 0 1.91000140 10 dBm 0 -10 dBm 1-10 dBm 01 -13.000 dBm
	Spectrum Military Ref Level 40.00 dbm Offset 10.50 db @ RBW 30 kH2 Att 45 db @ WT 63.1 µs VBW 30 kH2 Military -18.60 c 30 dbm -1.0100 dbm 10 dbm -1.000 dbm 10 dbm 01 -13.000 dbm
	Spectrum Militian Ref Level 40.00 dbm Offset 10.50 db RBW 30 kHz Att 45 db SWT 63.1 µs 91AV View Militian -18.60 dt 30 dbm 0 -19.000 dbm -13.000 dbm



		Test plot
	UMTS Band IV	
Conducted E	Band Edge plot on cha	annel 1312
Spectrum Ref Level 40.00 dBm Offset 10. Att 45 dB SWT 63	.50 dB ● RBW 30 kHz 3.1 µs ● VBW 30 kHz Mode Auto FFT	
Att 45 UB SWT 03	M1[1]	-20.06 dBm
30 dBm		1.70981040 GHz
20 dBm-		
10 dBm		
0 dBm		
-10 dBm 01 -13.000 dBm		
-20 dBm		
_30"dBm		
-40 dBm		
Start 1.708 GHz	691 pts	Stop 1.71 GHz
ate: 4.JUL.2018 14:07:05		
	Band Edge plot on cha	annei 1513
Spectrum		
	.50 dB 👄 RBW 30 kHz 3.1 µs 👄 VBW 30 kHz 🛛 Mode Auto FFT	
Att 45 dB SWT 63		
Att 45 dB SWT 63	M1[1]	-21.17 dBm 1.75519250 GHz
Att 45 dB SWT 63 SIAv View 30 dBm	M1[1]	-21.17 dBm 1.75519250 GHz
Att 45 dB SWT 6: 91Av View 30 dBm	M1[1]	-21.17 dBm 1.75519250 GHz
Att 45 dB SWT 62 914V View 30 d8m	M1[1]	-21.17 dBm 1.75519250 GHz
Att 45 dB SWT 62 91 AV View 30 dBm 30 dBm 30 dBm 10 dBm	M1[1]	-21.17 dBm 1.75519250 GHz
Att 45 dB SWT 62 91AV View 30 dBm 91	MI[1]	-21.17 dBm 1.75519250 GHz
Att 45 dB SWT 62 91AV View 30 dBm		-21.17 dBm 1.75519250 GHz
Att 45 dB SWT 62 91Av View 30 dBm		-21.17 dBm 1.75519250 CHz
Att 45 dB SWT 62 91AV View 30 dBm		-21.17 dBm 1.75519250 GHz
Att 45 dB SWT 62 91AV View 91	M1[1]	-21.17 dBm 1.75519250 GHz



7.8 CONDUCTED SPURIOUS EMISSION AT ANTENNA TERMINAL

7.8.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and Part 24.238(a) and FCC KDB 971168 D01 Section6.0

7.8.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P) dB$.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.0.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

The middle channel for the highest RF power within the transmitting frequency was measured.

The conducted spurious emission for the whole frequency range was taken.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

= P(W) - [43 + 10log(P)] (dB)

 $= [30 + 10\log(P)] (dBm) - [43 + 10\log(P)] (dB)$ = -13dBm.

7.8.6 Test Results

EUT:	Gaia	Model No.:	D601L
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850/ GSM/GPRS/EGPRS 1900/ UMTS band II/ UMTS band V/ UMTS Band IV	Test By:	Eileen Liu
Results: PASS			



Test	t Plot
GSM850	GSM850
Conducted Emission Transmitting Mode CH 128	Conducted Emission Transmitting Mode CH 190
30MHz – 5GHz	30MHz – 5GHz
Spectrum 🕎	Spectrum
Ref Level 40.00 dBm Offset 10.50 dB RBW 1 MHz Att 45 dB SWT 32 ms VBW 3 MHz Mode Auto Sweep	Ref Level 40.00 dBm Offset 10.50 dB Ref Level 4
1Av View M1[1] -22.56 dBm 3.850140 GHz	Av View M1[1] -22.42 dB 4.125050 GF
0 d8m	30 dBm
0 dBm	20 dBm-
0 dBm	10 dBm
d8m	0 d8m
10 dBm 01 - 13.000 dBm	-10 dBm 01 -13,000 dBm 01 -13 - 13 - 13 - 13 - 13 - 13 - 13 -
01 - 13,000 dem	-20 dBm
	provide a long to a structure with the group is an at these is the set of the structure of a structure of the
40 dBm	-40 d8m
50 dBm	-50 d8m
ttart 30.0 MHz 32000 pts Stop 5.0 GHz	
tiart 30.0 MHz 32000 pts Stop 5.0 GHz	Start 30.0 MHz 32000 pts Storp 5.0 GHz
tart 30.0 MHz 32000 pts Stop 5.0 GHz	Start 30.0 MHz 32000 pts Storp 5.0 GHz
tart 30.0 MHz 32000 pts Stop 5.0 GHz tart 30.0 MHz Stop 5.0 GHz Conducted Emission Transmitting Mode CH 128 5GHz – 10GHz	Start 30.0 MHz 32000 pts Stop 5.0 GHz Date: 12.00L.2018 11:53:58 Conducted Emission Transmitting Mode CH 190 5GHz – 10GHz
tart 30.0 MHz 32000 pts Stop 5.0 GHz ter 12.2 ML 2018 11:58:00 Conducted Emission Transmitting Mode CH 128 5GHz – 10GHz	Start 30.0 MHz Stop 5.0 GHz Stop 5.0 GHz Dete: 12.0 UL, 2016 Stop 5.0 GHz Conducted Emission Transmitting Mode CH 190 5GHz — 10GHz
ttart 30.0 MHz 10.0 MHz 11.111 10.0 MHz 11.111 10.0 MHz 11.111 10.0 MHz 11.111 10.0 MHz 11.111 10.0 MHz 11.111 10.0 MHz 11.111 10.0 MHz 11.111 10.0 MHz 11.111 10.0 MHz 10.0 MHz	Start 30.0 MHz 32000 pts Stop 5.0 GHz Date: 12.0UL.2018 11:59:58 Management of the stop 5.0 GHz Conducted Emission Transmitting Mode CH 1900 SGHz - 10GHz Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Att 45 dB BWT 32 ms @ VBW 3 MHz Made Auto Sweep @LAV UBV MHz Made Auto Sweep
tart 30.0 MHz Stop 5.0 GHz Stop 5.0 GHZ S	Stort 30.0 MHz Storp 5.0 GHz Storp 5.0 MHz Storp 5.0 GHz Date: 12.100.2018 11:53:58 Conducted Emission Transmitting Mode CH 190 Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att 4 5 db SWT Spectrum Conducted Emission Transmitting Mode CH 190 Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att 4 5 db SWT 32 ms @ VBW 3 MHz Mode Auto Sweep 01AV View MI1[1] -18.90 dBL
step 5.0 GHz Step 5.0 GHz Step 5.0 GHz Conducted Emission Transmitting Mode CH 128 5GHz – 10GHz Spectrum Spectrum Spectrum Att 45 db SWT 32 ms • VBW 3 MHz Mode Auto Sweep 19.29 dbm 0 dbm M1[1] -19.29 dbm 0 dbm	Stort 30.0 MHz Stort 30.0 MHz Stort 30.0 MHz Stort 30.0 MHz Stort 30.0 GHz Date: 12,018 11:59:58 Conducted Emission Transmitting Mode CH 190 SGHz - 10GHz Spectrum Ref Level 40.00 dBm offset 10.50 dB RBW 1 MHz Att 45 dB SWT 32 ms WBW 3 MHz Mode Auto Sweep MI[1] -18.05 dB 30 dBm MI[1] -18.05 dB
tart 30.0 MHz 32000 pts Step 5.0 GHz tart 30.0 MHz 32000 pts Step 5.0 GHz Step 5.0	Start 30.0 MHz 32000 pts Stop 5.0 GHz Date: 12, JUL. 2018 11159158 Mercenaria Mercenaria Conducted Emission Transmitting Mode CH 1900 5GHz 10GHz Spectrum Ref Level 40,00 dBm Offset 10.50 dB @ RBW 1 MHz Made Auto Sweep @1AV View 91 Avis 2 ms @ VBW 3 MHz Made Auto Sweep -18.06 dB 0 dBm 0 dBm 111 6.42550 GH -18.06 dB
stop 5.0 GHz Stop 5.0 GHz Stop 5.0 GHz Conducted Emission Transmitting Mode CH 128 5GHz – 10GHz Spectrum Spectrum Spectrum Stop 5.0 GHz Stop 5.0 GHz Spectrum Spectrum Stop 5.0 GHz	Stort 30.0 MHz Storp 5.0 GHz Storp 5.0 GHz Conducted Emission Transmitting Mode CH 190 SGHz - 10GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz M1113 - 18.06 db 0 10V View - 19.06 db 0 dbm 0 dbm 10 dbm M1113 - 18.06 db
tart 30.0 MHz 32000 pts Step 5.0 GHz tart 30.0 MHz 32000 pts Step 5.0 GHz Step 5.0 GHz	Stort 30.0 MHz 32000 pts Stop 5.0 GHz Pater 12TUL.2018 11/58/58 Maintain Stop 5.0 GHz Conducted Emission Transmitting Mode CH 1900 5GHz – 10GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Att 45 dB BWT 32 ms @ VBW 3 MHz Mode Auto Sweep 0.02550 GH 0 dBm 0.02550 GH 20 dBm 0 dBm
stop 5.0 GHz Stop 5.0 GHz Stop 5.0 GHz Conducted Emission Transmitting Mode CH 128 5GHz – 10GHz Spectrum Spectrum Spectrum Spectrum Stop 5.0 GHz 10/50 db @ RBW 1 MHz Mode Auto Sweep 14/ 19.29 dbm 0 dbm	Stor 30.0 MHz Stor 5.0 GHz Stor 30.0 MHz Stor 5.0 GHz Conducted Emission Transmitting Mode CH 190 Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz MILLI @ 0 10 V Vew
start 30.0 MHz Step 5.0 GHz Itart 30.0 MHz Step 5.0 GHz Conducted Emission Transmitting Mode CH 128 5GHz – 10GHz Spectrum Spectrum 12 JUU 100 dBm Offset 10.50 dB @ RBW 1 MHz 14 View 10 dBm 1111 0 dBm 0 dBm 19.29 dBm 0 dBm 0 dBm 19.29 dBm 10 dBm 0 dBm 19.29 dBm	Stort 30.0 MHz 32000 pts Stop 5.0 GHz Pater 12UUL/2018 11/58/58 Conducted Emission Transmitting Mode CH 1900 Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Att 45 dB @ WT 32 m @ VBW 3 MHz Mode Auto Sweep @ Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Att 45 dB @ WT 0 dBm 0 dBm 10 dBm 0 dBm
Itart 30.0 MHz Stop 5.0 GHz Itart 30.0 MHz Stop 5.0 GHz Conducted Emission Transmitting Mode CH 128 5GHz – 10GHz Spectrum Spectrum 45 dB SWT 32 ms VBW 3 MHz Mode Auto Sweep 12 v View 1113 -19.29 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm	Start 30.0 MHz 32000 pts Stop 5.0 GHz Pater 12.JUL 2018 11159:58 Conducted Emission Transmitting Mode CH 1900 Spectrum Spectrum Made Auto Sweep Start 40.00 dbm Offset 10.50 db @ RBW 1 MHz Made Auto Sweep Start View 32 ms @ VBW 3 MHz Made Auto Sweep 0 dbm M1[1] -18.96 dBh 0 dbm 0 dbm M1
tart 30.0 MHz 32000 pts Step 5.0 GHz Step 5.	Stati 30.0 MHz 32000 pts Stop 5.0 GHz Date: 12, JUL, 2018 11:53:58 Mercener Image: 12, JUL, 2018 11:53:58 Conducted Emission Transmitting Mode CH 190 5GHz - 10GHz Spectrum Image: 12, JUL, 2018 11:53:58 Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Att Made Auto Sweep Image: Att and the state of the state o
tart 30.0 MHz 32000 pts Stop 5.0 GHz Stop 5.	Stert 30.0 MHz 32000 pts Step 5.0 GH Step 5.0 GH Conducted Emission Transmitting Mode CH 190 5GHz - 10GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB = RBW 1 MHz Att 45 dB SWT 32 ms VBW 3 MHz Mode Auto Sweep 01.4V View 118,00 dB 01.4V View MI[1] 01.4V View 01.40 dBm 01.40 dBm 01.40 dBm 01.43 dBm 01.43 dBm 01.43 dBm MI MI MI MI DI dBm 01.43 dBm MI
ter 30.0 MHz 32000 pts Stop 5.0 GHz Stop 5.0 GHz Stop 5.0 GHz Table Stop 5.0 GHz St	Stort 30.0 MHz 32000 pts Storp 5.0 GHz Date: 12.700.2018 11:132:58 Conducted Emission Transmitting Mode CH 190 5GHz - 10GHz Spectrum Spectrum Spectrum Spectrum Spectrum Ref Level 40.00 dbm Offset 10.50 db RBW 1 MHz Mode Auto Sweep 91Av View 10.00 dbm 0.025550 GH 0.025550 GH 0.00 dbm 0.025550 GH 0 dbm 0 10.00 dbm 10.00 dbm 10.00 dbm 10.00 dbm 10.00 dbm -20 dbm 10.00 dbm 10.1 10.00 dbm 10.1 10.00 dbm 10.1 -20 dbm 10.00 dbm 10.1 10.00 dbm 10.1 10.00 dbm 10.00 dbm -20 dbm 10.00 dbm



Test	Plot
GSM850	GSM1900
Conducted Emission Transmitting Mode CH 251 30MHz – 5GHz	Conducted Emission Transmitting Mode CH 512 30MHz – 10GHz
	Spectrum Image: Constraint of the sector of th
	30 dam
	-10 d8m
	-20 dBm Mi
	-50 d8m-
	Start 30.0 MHz 32000 pts Stop 10.0 GHz
Conducted Emission Transmitting Mode CH 251 5GHz – 10GHz	Date: 12.JUL.2018 13:55:25
Spectrum Ref Level 40.00 dBm Offset 10.50 dB • RBW 1 MHz Att 45 dB SWT 32 ms • VBW 3 MHz Mode Auto Sweep	Conducted Emission Transmitting Mode CH 512 10GHz – 20GHz
Spectrum Spectrum Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2" Colspan="2">Image: Colspan="2" Colspan="2">Image: Colspan="2" Colspa=	Nate: 12,001,0018 13:55:25 Conducted Emission Transmitting Mode CH 512 10GHz – 20GHz Spectrum Ref Level 40:00 dbm Offset 10:50 db RBW 1 MHz 45 db WW Mode Auto Sweep Interview Mode SWT 40 ms VBW 3 MHz Mode Auto Sweep
Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att 45 db SWT 32 ms @ VBW 3 MHz Made Auto Sweep 14/V View Made Auto Sweep 14/V View 0 dbm Offset 10.50 db @ RBW 1 MHz 45 db SWT 32 ms @ VBW 3 MHz Made Auto Sweep 14/V View 0 dbm Offset 10.50 db @ RBW 1 MHz 0 dbm 0	Mate: 12.5018 13:55:25 Conducted Emission Transmitting Mode CH 512 10GHz – 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att Att 45 db SWT 40 ms @ VBW 3 MHz MI(1) 30 dbm 10 dbm 0 dbm
SGHz – 10GHz Spectrum Spectrum Image: Spectrum 45 db SWT 32 ms VBW 3 MHz Att 45 db SWT 32 ms VBW 3 MHz Att 45 db SWT 32 ms VBW 3 MHz 0 dbm 0 dbm M1[1] - 18.66 dbm 0 dbm 0 dbm 0 dbm 0 dbm	Image: Spectrum Ref Lavel 40.00 dBm Offset 10.50 dB RBW 1 MHz Mode Auto Sweep International offset 10.50 dB
Spectrum Image: Constraint of the sector of th	Mate: 12.500.0000 Emission Transmitting Mode CH 512 10GHz – 20GHz Spectrum Reflevel 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att 40 ms @ VBW 3 MHz Mode Auto Sweep @1AV View -22.25 dbm 15.712030 GH 20 dbm -22.25 dbm 10 dbm 10 dbm 0 dbm 0 dbm -10 dbm



Test	Plot
GSM1900	GSM1900
Conducted Emission Transmitting Mode CH 661 30MHz – 10GHz	Conducted Emission Transmitting Mode CH 810 30MHz – 10GHz
pectrum (TTP) ef Level 40.00 dBm Offset 10.50 dB ● RBW 1 MHz (♥) tt 45 dB SWT 39.9 ms ● VBW 3 MHz Mode Auto Sweep AV View (*) (*) (*) (*)	Spectrum (™) Ref Level 40.00 dbm Offset 10.50 dB ● RBW 1 MHz Att 45 dB SWT 39.9 ms ● VBW 3 MHz Mode Auto Sweep ●1Av View ● 14 14
D dBm	30 dBm
1 d8m	20 dBm
0 dBm	-10 dBm 01 -13.000 dBm M1
	-to dem
0 d8m	-50 dBm
Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz	Conducted Emission Transmitting Mode CH 810 10GHz – 20GHz
10GHz − 20GHz	Spectrum Ref Level 40.00 dbm Offset 10.50 db • RBW 1 MHz Att 45 db SWT 40 ms • VBW 3 MHz Mode Auto Sweep
10GHz - 20GHz	Spectrum RefLevel 40.00 dBm Offset 10.50 dB ● RBW 1 MHz
IOGHz – 20GHz pectrum Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2" Image: Colspan="2">Image: Colspan="2" Image: Colspan="	IOGHz – 20GHz Spectrum Image: Colspan="2">Image: Colspan="2" Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Mode Auto Sweep Image: Colspan="2">Image: Colspan="2" Image: Colspan="2">Image: Colspan="2" Image: Colspan="2">Image: Colspan="2" Image: Colspan="2"<
IOGHz – 20GHz pectrum Image: Colspan="2">Image: Colspan="2" Image: Colspan="2	IOGHz – 20GHz IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
IDGHz – 20GHz Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Image	IDGHz – 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db ® RBW 1 MHz Att 45 db SWT 40 ms @ VBW 3 MHz Mode Auto Sweep 1/V View MI[1] -6.99220 GH 30 dBm 10 dBm 10 dBm 10 dBm 0 10 dBm -20 dBm 0 0
IOGHz – 20GHz pectrum Image: Colspan="2">Image: Colspan="2" Image: Colspan="2	IOGHz – 20GHz IIII Colspan="2">IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII



	Test Pl	ot				
GPRS850			GPF	RS850		
Conducted Emission Transmitting Mode	e CH 128 (Conducted E	Emission Tr	ansmittina	Mode CH	1 1 9 0
30MHz – 5GHz				z – 5GHz		
pectrum	land the second	pectrum				
lefLevel 40.00 dBm Offset 10.50 dB ● RBW 1 MHz tt 45 dB SWT 32 ms ● VBW 3 MHz Mode Auto Sweep		f Level 40.00 dBm Offse		Hz Hz Mode Auto Sweep		(7
Av View M1[1]		Av View		M1[1]		-22.12 dBr
dBm	4.353360 GHz	dBm			4	.827060 GH
) dBm	20	dBm-				
J dBm	10	dBm				
dBm	o	IBm				
0 dBm 01 -13,000 dBm	-1) dBm				
01 -13 000 dem	-2) dBm				M1
	All desires of the second s	and the second	ي منه بالله المربوع بين المعالية <mark>الرعاري</mark> مربوع مربوع	in the second		an Daartererererere
0 dBm	-4	dBm				
0 dBm	-5) dBm				
eart 30 0 MHz 32000 pts	Stop 5.0 GHz	art 30 0 MHz		000 pts	9	top 5 0 GHz
tart 30.0 MHz 32000 pts	Stop 5.0 GHz	art 30.0 MHz	32	000 pts	Sing	top 5.0 GHz
(+: 12.JUL.2018 14:13:3	8	Measur		ya)
Conducted Emission Transmitting Mode		art 30.0 MHz	Emission Tr	ansmitting		NA C
(+: 12.JUL.2018 14:13:3	Emission Tr	Measur		NA C
Conducted Emission Transmitting Mode 5GHz – 10GHz	CH 128	Conducted E	Emission Tr 5GHz	ransmitting – 10GHz		1 190
Conducted Emission Transmitting Mode 5GHz – 10GHz	• CH 128	212,JUL 2018 14:13:3 Conducted E Dectrum of Level 40.00 dBm Offss 45 dB SWT	Emission Tr 5GHz	ransmitting – 10GHz		1 190
er 12.301.2018 14:11:27 Conducted Emission Transmitting Mode 5GHz – 10GHz ef Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz tt 45 dB SWT 32 ms @ VBW 3 MHz Mode Auto Sweep Lav View M1[1]	2 CH 128 (2: 12, JUL 2018 14-13: 3 Conducted E Sectrum of Level 40.00 dBm Offs t 45 dB SWT A View	Emission Tr 5GHz	ransmitting – 10GHz	Mode CH	ya)
er 12.001.2018 14:11:27 Conducted Emission Transmitting Mode 5GHz – 10GHz pectrum pectrum ef Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz tt 45 dB SWT 32 ms @ VBW 3 MHz Mode Auto Sweep tav View M1[1]	E CH 128 (oectrum t Level 40.00 dBm Offst v tered 40.00 dBm Offst swr dBm dBm	Emission Tr 5GHz	ransmitting – 10GHz	Mode CH	1 190 (T -19.15 dBr
Ar 12.00L2018 14:11:27 Conducted Emission Transmitting Mode 5GHz – 10GHz pectrum ef Level 40.00 dBm Offset 10.50 dB & RBW 1 MHz ttt 45 dB SWT 32 ms & VBW 3 MHz Mode Auto Sweep tav View M113 dBm M113	© CH 128		Emission Tr 5GHz	ransmitting – 10GHz	Mode CH	1 190 (T -19.15 dBr
er 12.301.2018 14:11:27 Conducted Emission Transmitting Mode SGHz – 10GHz pectrum ef Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz tat 45 dB SWT 32 ms @ VBW 3 MHz Mode Auto Sweep tay View M1[1] dBm dBm dBm	2 CH 128 €	212.302.2018 14-13:3 Conducted E E Sectrum 45.00 off Level 40.00 dBm Offs t 45.06 SWT dBm dBm dBm	Emission Tr 5GHz	ransmitting – 10GHz	Mode CH	1 190 (T -19.15 dBr
Ar 12.001.2018 14:11:27 Conducted Emission Transmitting Mode 5GHz – 10GHz pectrum pectrum ef Level 40.00 dBm Offset 10.50 dB © RBW 1 MHz tt 45 dB SWT 32 ms © VBW 3 MHz Mode Auto Sweep 1 dBm MI[1] 1 dBm MI[1] 1 dBm MI[1]	CH 128 CH 12	bit 12.301, 2018 14.13.13 Conducted E E oectrum 14.10.00 dBm Offsr of Level 40.00 dBm 45 dB SWT dBm 48m 68m dBm 68m 68m	Emission Tr 5GHz	ransmitting – 10GHz	Mode CH	1 190 (T -19.15 dBr
	E CH 128		Emission Tr 5GHz	ransmitting – 10GHz	Mode CH	1 190 (T -19.15 dBr
ex 12.00L 2018 14:11:27 Conducted Emission Transmitting Mode SGHz – 10GHz pectrum ef Level 40.00 dBm Offset 10.50 dB & RBW 1 MHz txt 49 dB SWT 32 ms & VBW 3 MHz Mode Auto Sweep tAv Vew dBm dBm dBm dBm dBm dBm dBm dBm dBm dB	E CH 128		Emission Tr 5GHz	ransmitting – 10GHz	Mode CH	1 190 (T -19.15 dBr
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Ar 12.001.2018 14:11:27 Conducted Emission Transmitting Mode SGHz – 10GHz petrum ef Level 40.00 dBm Offset 10.50 dB © RBW 1 MHz the 45 dB SWT 32 ms © VBW 3 MHz Mode Auto Sweep 14V VIew MILII 0 dBm 01 -13.000 dBm MIL 0 dBm 01 -13.000 dBm MIL 0 dBm 01 -13.000 dBm MIL 0 dBm MILII How without a distribution of the first second a low out	CH 128		Emission Tr 5GHz	ransmitting – 10GHz	Mode CH	1 190 (E



Test	Plot
GPRS850	GPRS1900
Conducted Emission Transmitting Mode CH 251	Conducted Emission Transmitting Mode CH 512
30MHz – 5GHz	30MHz – 10GHz
Spectrum 🕎	Spectrum T
Control of the section of th	RefLevel 0.00 dBm Offset 10.50 dB RBW 1 MHz Att 45 dB SWT 39.9 ms VBW 3 MHz Mode Auto Sweep
1Av View M1[1] -22.44 dBm	●1Av View M1[1] -19.48 dBn
0 dBm 4.419360 GHz	30 dBm
D d8m	20 dBm
D dBm	10 dBm
d8m	0 d8m
0 dBm 01 -13,000 dBm	-10 dBm
	-20 dBm
40 dBm	-40 dBm
50 dBm	-50 dBm-
50 dBm	-50 dBm
	Start 30.0 MHz 32000 pts Stop 10.0 GHz
tart 30.0 MHz 32000 pts Stop 5.0 GHz	Start 30.0 MHz 32000 pts Stop 10.0 GHz
tart 30.0 MHz 32000 pts Stop 5.0 GHz tart 30.0 MHz Stop 5.0 GHz Conducted Emission Transmitting Mode CH 251 5GHz – 10GHz	Start 30.0 MHz 32000 pts Stop 10.0 GHz Date: 12.0UL2018 16:24:40 Conducted Emission Transmitting Mode CH 512 10GHz – 20GHz
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tert 30.0 MHz 32000 pts Step 5.0 GHz tert 30.0 MHz 32000 pts Step 5.0 GHz Conducted Emission Transmitting Mode CH 251 5GHz – 10GHz Spectrum ter Level 40.00 dbm Offset 10.50 db • RBW 1 MHz tet 4 5 db SWT 32 ms • VBW 3 MHz Mode Auto Sweep 1AV View M1[1] 6.097110 GHz	Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att 45 db SWT 40 ms @ VBW 3 MHz Mode Auto Sweep
tart 30.0 MHz 32000 pts Stop 5.0 GHz tart 30.0 MHz 32000 pts Stop 5.0 GHz tart 12UU.2018 19:154:39 Conducted Emission Transmitting Mode CH 251 5GHz – 10GHz spectrum ter Level 40.00 dbm Offset 10.50 db • RBW 1 MHz ter 4 5 db SWT 32 ms • VBW 3 MHz Mode Auto Sweep 1Av View 19.00 dbm Offset 10.50 db • RBW 1 MHz ter 4 5 db SWT 32 ms • VBW 3 MHz Mode Auto Sweep 1Av View 19.00 dbm Offset 10.50 db • RBW 1 MHz 0 dBm 19.61 dBm 0 dBm 19.61 dBm	Stort 30.0 MHz Stop 10.0 GHz Date: 12.701.2018 15:24:40 Conducted Emission Transmitting Mode CH 512 10GHz - 20GHz Spectrum Ref Level 40.00 dBm offset 10.50 dB @ RBW 1 MHz Att 45 dB SWT 40 ms @ VBW 3 MHz Mode Auto Sweep @1Av View M1[1] -22.29 dBm 91Av View M1[1] -92.29 dBm
tart 30.0 MHz Stop 5.0 GHz tart 30.0 MHz Stop 5.0 GHz Conducted Emission Transmitting Mode CH 251 5GHz – 10GHz ipectrum ipectrum ter 10.50 db @ RBW 1 MHz Mode Auto Sweep 1AV View 0 dBm MI[1] -19.61 dBm 0 dBm	Stert 30.0 MHz Stop 10.0 GHz Date: 12.3UL.2018 IS:24:40 Conducted Emission Transmitting Mode CH 512 10GHz - 20GHz Spectrum Ref Level 40.00 dbm offset 10.50 db e RBW 1 MHz Att Mode Auto Sweep 01AV View M1[1] -22.20 dBn 19.934220 GH 30 dBm M1[1] 19.934220 GH 19.934220 GH
ter 30.0 MHz 32000 pts Step 5.0 GHz ter 12.700.2018 13:54:39 Conducted Emission Transmitting Mode CH 251 5GHz – 10GHz ter Level 40.00 dbm Offset 10.50 db & RBW 1 MHz ter 45 db SWT 32 ms & VBW 3 MHz Mode Auto Sweep 1AV View	Stort 30.0 MHz Stop 10.0 GHz Stop 10.0 GHz Date: 12.00L 2018 16:24:40 Conducted Emission Transmitting Mode CH 512 10GHz - 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz At 45 dB BWT Mode Auto Sweep @1Av View MI[1] -22.29 dBm 20 dBm MI[1] -22.29 dBm
tart 30.0 MHz 32000 pts Stop 5.0 GHz tart 30.0 MHz 32000 pts Stop 5.0 GHz tart 12.70L,2018 19:54:39 Conducted Emission Transmitting Mode CH 251 <u>5GHz – 10GHz</u>	Stert 30.0 MHz Stop 10.0 GHz Date: 12.000 pts Stop 10.0 GHz Spectrum Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Mode Auto Sweep MI[1] -22.23 dBm 30 dBm Image: Colspan="2">Spectrum OdBm MI[1] -22.23 dBm Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" Image: Colspan="2"
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stor 30.0 MHz stor 5.0 GHz ter 12.70L 2018 19:54:39 Conducted Emission Transmitting Mode CH 251 5GHz – 10GHz Spectrum O dBm 0 dBm M View M 10 MHz M 111 O dBm 0 dBm M 111 O dBm M 113.000 dBm M 11	Stort 30.0 MHz Stop 10.0 GHz Date: 12.00L.2018 16:24:40 Conducted Emission Transmitting Mode CH 512 10GHz - 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Att 45 db 8WT 40 ms VBW 3 MHz Mode Auto Sweep © Av View M1[1] -22.23 dBm 19.934220 GH 20 dBm 0 dBm 0 dBm 0 dBm 0 dBm 10 dBm 0 dBm 0 dBm 0 dBm 0 dBm
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tart 30.0 MHz 32000 pts Step 5.0 GHz tart 30.0 MHz 32000 pts Step 5.0 GHz tart 30.0 MHz 32000 pts Step 5.0 GHz tart 30.0 MHz Step 5.0 GHz Step 5.	Stort 30.0 MHz Stop 10.0 GHz Date: 12.70L/2018 16:24:40 Conducted Emission Transmitting Mode CH 512 10GHz - 20GHz Spectrum Ref Level 40.00 GBm offset 10.50 GB @ RBW 1 MHz Att MJZ Mode Auto Sweep 0 AV View M1[1] 19.934220 GH 0 22.29 dBn 0 30 dBm 0 M1[1] 19.934220 GH 0



Test	t Plot
GPRS1900	GPRS1900
Conducted Emission Transmitting Mode CH 661	Conducted Emission Transmitting Mode CH 810
30MHz – 10GHz	30MHz – 10GHz
pectrum (₩	Spectrum □
efLevel 40.00 d8m Offset 10.50 d8 ⊕ RBW 1 MHz tt 45 d8 SWT 39.9 ms ⊕ VBW 3 MHz Mode Auto Sweep Av View	RefLevel 40.00 dbm Offset 10.50 db ■ RBW 1.MHz Att 45 dB SWT 39.9 ms ■ VBW 3 MHz Mode Auto Sweep ●IAV View <th<< td=""></th<<>
M1[1] -20.95 dBm 6.977060 GHz	M1[1] -20.99 dBr 6.144880 GH
d8m	30 dBm 20 dBm
dBm	20 GBm
18m	0 d8m
D dBm	-10 d8m
01 -13.000 dBm	-20 dBm
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D dBm	-40 d8m
	-50 d8m
art 30.0 MHz 32000 pts Stop 10.0 GHz	Start 30.0 MHz 32000 pts Stop 10.0 GHz
art 30.0 MHz 32000 pts Stop 10.0 GHz	Start 30.0 MHz 32000 pts Stap 10.0 GHz Start 30.0 MHz 32000 pts Stap 10.0 GHz
Art 30.0 MHz 32000 pts Stop 10.0 GHz Mark Stop 10.0 GHz Mark Stop 10.0 GHz Mark Stop 10.0 GHz Stop 1	Date: 12. JUL 2018 15:27-14
Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz	Conducted Emission Transmitting Mode CH 810 10GHz – 20GHz
Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz	Conducted Emission Transmitting Mode CH 810 10GHz – 20GHz
Ar 12.JUL 2018 16:25:06 Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz Pectrum of Level 40.00 dBm Offset 10.50 dB • RBW 1 MHz tet 45 dB swT 40 ms • VBW 3 MHz Mode Auto Sweep Ar View Ar View M1(1) -23.44 dBm	Date: 12.000.2018 16:27:14 Conducted Emission Transmitting Mode CH 810 10GHz – 20GHz Spectrum Ref Level 40.00 dbm Offset 10:50 db = RBW 1 MHz Att 45 db SWT 40 ms • VBW 3 MHz Mode Auto Sweep ●1AV View ●1AV View M1[1] -22:33 dBH
er 12.JUL-2018 16126:06 Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz pectrum ef Level 40.00 dBm Offset 10.50 dB © RBW 1 MHz tt 45 dB SWT 40 ms © VBW 3 MHz Mode Auto Sweep Av View	Date: 12.000.2018 16:27:14 Conducted Emission Transmitting Mode CH 810 10GHz - 20GHz Spectrum Ref Level 40.00 dbm Offset 10:50 db • RBW 1 MHz Att 45 db SWT 40 ms • VBW 3 MHz •1Av View •1Av View
er: 12, JUL-2018 16:26:06 Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz pectrum of Level 40.00 dBm Offset 10:50 dB @ RBW 1 MHz 45 dB @ SWT td 45 dB @ SWT view Mil[1] -23.44 dBm 15.376600 GHz	Parter: 12.300.2018 16:22:14 Conducted Emission Transmitting Mode CH 810 10GHz - 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Att 45 dB SWT 40 ms @ VBW 3 MHz Mode Auto Sweep MILI 1 - 23.33 dBr 16.299530 GH
er 12.JUL 2018 16:26:06 Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz pectrum ef Level 40.00 dbm Offset 10.50 db • RBW 1 MHz tt 45 db SWT 40 ms • VBW 3 MHz Mode Auto Sweep AV View dbm M1[1] -23.44 dbm 15.378090 GHz	Market 12.700, 2018 16:27:14 Conducted Emission Transmitting Mode CH 810 10GHz – 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db # RBW 1 MHz 45 db Mode Auto Sweep MIL1 0 dbm 0 dbm 30 dbm
AV VIEW ABM AV VIEW ABM AV	Date: 12.00L.2018 16:27:14 Conducted Emission Transmitting Mode CH 810 10GHz – 20GHz Spectrum Ref Level 40.00 dbm Offset 10:50 db • RBW 1 MHz 45 db • SWT Att 40 ms • VBW 3 MHz • IAV View 0 dbm M1(1) 20 dbm 16.299530 GH
er 12, JUL 2018 16:26:06 Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz Pectrum ef Level 40,00 dBm Offset 10:50 dB & RBW 1 MHz t 40 ms VBW 3 MHz Mode Auto Sweep Av View dBm MI[1] 15:376000 GHz dBm dBm dBm dBm dBm dBm dBm dBm dBm dBm	Note: 12.2018 16:27:14 Conducted Emission Transmitting Mode CH 810 10GHz - 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Att 45 dB SWT 40 ms @ VBW 3 MHz Mode Auto Sweep @IAV View M1[1] 16.299530 GH 30 dBm 10 dBm 10 dBm 10 dBm
Ar 12.JUL 2018 16:25:06 Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz pectrum of Level 40.00 dBm Offset 10.50 dB • RBW 1 MHz tt et 45 dB SWT 40 ms • VBW 3 MHz Mode Auto Sweep Ar View dBm M1(1) 15:376090 GHz dBm M1(1) 15:376090 GHz dBm M1(1) 15:376090 GHz	Date: 12.00L/2018 16:27:14 Conducted Emission Transmitting Mode CH 810 10GHz – 20GHz Spectrum Ref Level 40.00 dbm Offset 10:50 db @ RBW 1 MHz Att Att 45 db @ SWT 40 ms @ VBW 3 MHz Mode Auto Sweep 16:299530 GH 30 dbm 0 dbm 10 dbm 0 dbm
Ar 12, JUL 2018 16:28:06 Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz pectrum ef Level 40.00 dBm Offset 10.50 dB • RBW 1 MHz tt 45 dB SWT 40 ms • VBW 3 MHz Mode Auto Sweep Ar View dBm 01 -13.000 dBm 01 -13.000 dBm	Date: 12.001/2018 List27:14 Conducted Emission Transmitting Mode CH 810 10GHz – 20GHz Spectrum Image: Colspan="2">Image: Colspan="2" Image: Colspa="2" Image: Colspan="2" Image: Colspan="2" Image: Colspa="2" Im
Ising the second s	Spectrum Ref Level 40.00 dbm Offset 10.50 db RBW 1 MHz Atta 45 db SWT 40 ms VBW 3 MHz Mode Auto Sweep 10 dbm 0 dbm 10.299530 CH 10.299530 CH 10.299530 CH 20 dbm 0 dbm 0 dbm 10.299530 CH 0 dbm 0 dbm -10 dbm 01 -13.000 dbm 0 dbm M11 lb 0 dbm 0 dbm -20 dbm 0 dbm 0 dbm 0 dbm 0 dbm 0 dbm 0 dbm
er 12.001.2018 16:26:06 Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz pectrum pectrum of Level 40.00 dBm of Level 40.00 dBm of Sevel 10.50 dB	Spectrum With an and a state of the state o



EGPRS850 sion Transmitting Mode CH 1 30MHz – 5GHz * RBW 1 MHz * VBW 3 MHz Mode Auto Sweep * VBW 3 MHz Mode Auto Sweep
30MHz – 5GHz
3. • RBW 1 MHz • VBW 3 MHz M1[1] 23.3 4.15347
WBW 3 MHz Mode Auto Sweep M1[1] -22.0 4.15347
M1[1] -22.3 4.15347 4.15347 1 1
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32000 nts Stan 5
32000 nts Stop 5 (
32000 pts Stop 5.0
Measuring
sion Transmitting Mode CH 1 5GHz – 10GHz
3 RBW 1 MHz 5 VBW 3 MHz Mode Auto Sweep
M1[1] -19.0
6.84602
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Tes	t Plot
EGPRS850	EGPRS1900
Conducted Emission Transmitting Mode CH 251	Conducted Emission Transmitting Mode CH 512
30MHz – 5GHz	30MHz – 10GHz
pectrum 🕎	Spectrum T
efLevel 40.00 dBm Offset 10.50 dB ⊕ RBW 1 MHz tt 45 dB SWT 32 ms ⊕ VBW 3 MHz Mode Auto Sweep	RefLevel 40.00 d8m Offset 10.50 d8 ● RBW 1 MHz Att 45 d8 SWT 39.9 ms ● VBW 3 MHz Mode Auto Sweep
LAV View M1[1] -22.30 dBm	Av View M1[1] -19.99 dBn
0 dBm	30 dBm
D dBm	20 dBm
D dBm	10 dBm
d8m	0 dBm
0 dBm 01 -13,000 dBm	-10 dBm01 -13.000 dBm
	-20 d8m
0 dBm	-40 d8m
0 dBm-	-50 dBm
tart 30.0 MHz 32000 pts Stop 5.0 GHz	
	Start 30.0 MHz 32000 pts Stop 10.0 GHz
	Stort 30.0 MHz 32000 pts Stop 10.0 GHz
Conducted Emission Transmitting Mode CH 251	Conducted Emission Transmitting Mode CH 512
Conducted Emission Transmitting Mode CH 251 5GHz – 10GHz	Date: 12.JUL 2018 18:56:18
5GHz – 10GHz	Conducted Emission Transmitting Mode CH 512 10GHz – 20GHz
pectrum pectrum ef Level 40.00 dBm Offset 10.50 dB ● RBW 1 MHz tt 45 d8 SWT 32 ms ● VBW 3 MHz Mode Auto Sweep	Date: 12.00L.2018 18:56:18 Conducted Emission Transmitting Mode CH 512 10GHz – 20GHz Spectrum Ref Lavel 40.00 dbm Offset 10.50 db • RBW 1 MHz Att 45 db SWT 40 ms • YBW 3 MHz Mode Auto Sweep
5GHz – 10GHz pectrum Implication offset 10.50 dB @ RBW 1 MHz tef Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz 45 dB SWT 32 ms @ VBW 3 MHz Mode Auto Sweep 19.98 dBm M1[1] 6.820390 GHz	Conducted Emission Transmitting Mode CH 512 10GHz – 20GHz
5GHz – 10GHz pectrum Image: Colspan="2">Image: Colspan="2" Image: Colspan="2"	Date: 12.001.2018 18:56:18 Conducted Emission Transmitting Mode CH 512 10GHz – 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att 45 db BWT 40 ms @ VBW 3 MHz Mode Auto Sweep M1[1] -22.70 dbm 30 dbm
5GHz – 10GHz Image: Signal of the system of t	Date: 12.JUL.2018 18:56:18 Conducted Emission Transmitting Mode CH 512 10GHz - 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db e RBW 1 MHz Att 45 db SWT 40 ms e VBW 3 MHz Mode Auto Sweep 01AV View 11(1) 30 dbm 19.764220 GH
SGHz – 10GHz Image: Signal of Sig	Notice 12,001,2018 18:56:18 Conducted Emission Transmitting Mode CH 512 10GHz - 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Att 45 dB @ WT Att 45 dB WW 0 AV View M1[1] 19:764220 GH 20 dBm 10 dBm 10 dBm
5GHz – 10GHz pectrum Image: Colspan="2">Image: Colspan="2" Image: Colspan="2"	Martine 12, JUL 2018 Date: 12, JUL 2018 Date: 12, JUL 2018 Conducted Emission Transmitting Mode CH 512 10GHz – 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att Mode Auto Sweep @1AV View Mode Auto Sweep @1AV View M1[1] -22.70 dbm 30 dBm 19.764220 GH 19.764220 GH 10 dBm 0 dbm 10 dbm
5GHz – 10GHz pectrum Image: Colspan="2">Image: Colspan="2" Image: Colspan="2"	Date: 12.00L.2018 18:56:18 Conducted Emission Transmitting Mode CH 512 10GHz – 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att 45 db BWT 40 ms @ VBW 3 MHz Mode Auto Sweep ©LAV View M1[1] -22.70 dbm 19.764220 GH 30 dBm 0 dbm 0 dbm 10 dBm 0 dbm 0 dbm
SGHz – 10GHz Image: Sector with the sector withe sector withe sector withe	Date: 12.00L.2018 18:56:18 Conducted Emission Transmitting Mode CH 512 10GHz – 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att 45 db BWT 40 ms @ VBW 3 MHz Mode Auto Sweep ©LAV View M1[1] -22.70 dbm 19.764220 GH 30 dBm 0 dbm 10.764220 GH 10 dBm 0 dbm 10.60 dbm
SGHz – 10GHz pectrum Image: Colspan="2">Image: Colspan="2" Image: Colspan	Date: 12.701L 2018 18:56:18 Conducted Emission Transmitting Mode CH 512 10GHz – 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz 45 db B SWT 40 ms @ VBW 3 MHz Mode Auto Sweep @1AV View MI[1] -22.79 dbm 0 dbm MI[1] 19.764220 GH 10 dbm MI[1] 19.764220 GH 0 dbm MI[1] 19.764220 GH 10 dbm MI[1] 19.764220 GH
SGHz – 10GHz Image: Sector with the sector withe sector withe sector withe	Date: 12.00L.2018 18:56:18 Conducted Emission Transmitting Mode CH 512 10GHz – 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att 45 db BWT 40 ms @ VBW 3 MHz Mode Auto Sweep ©LAV View M1[1] -22.70 dbr 19.764220 GH 30 dBm 0 dbm 19.764220 GH 10 dBm 0 dbm 0 dbm
SGHz – 10GHz pectrum Image: Colspan="2">Image: Colspan="2" Image: Colspan	Date: 12.701L 2018 18:56:18 Conducted Emission Transmitting Mode CH 512 10GHz – 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz 45 db B SWT 40 ms @ VBW 3 MHz Mode Auto Sweep @1AV View MI[1] -22.79 dbm 0 dbm III] 19.764220 GH 10 dbm III] III]



Test	t Plot	
EGPRS1900	EGPRS1900	
Conducted Emission Transmitting Mode CH 661	Conducted Emission Transmitting Mode CH 810	
30MHz – 10GHz	30MHz – 10GHz	
Spectrum 🕎	Spectrum	
Ref Level 40.00 dBm Offset 10.50 dB ● RBW 1 MHz Att 45 dB SWT 39.9 ms ● VBW 3 MHz Mode Auto Sweep	Ref Level 40.00 dBm Offset 10.50 dB RBW 1 MHz Att 45 dB SWT 39.9 ms VBW 3 MHz Mode Auto Sweep	
1Av View M1[1] -21.45 dBm 6.840600 GHz	●1Av View M1[1] -20.85 dBr 6.843090 GH	
0 d8m-	30 d8m	
0 dBm	20 dBm	
D dBm-	10 dBm-	
d8m	0 d8m	
0.08m	-10 dBm-01 -13,000 -	
	-40 dbm	
50 dBm	-50 dBm	
50 GBII		
tart 30.0 MHz 32000 pts Stop 10.0 GHz	Start 30.0 MHz 32000 pts Stop 10.0 GHz	
te: 12.JUL.2018 18:57:43		
Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz	Stort 30.0 MHz 32000 pts Stop 10.0 GHz Pater 12, JUL 2018 18:58:42 Conducted Emission Transmitting Mode CH 810 10GHz – 20GHz	
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	Spectrum Ref Level 40.00 dfm Offset 10.50 dfl @ RBW 1 MHz	
Ar View MIL1 19.57:40 Mile 10.50 dB e RBW 1 MHz Market Level 40.00 dBm offset 10.50 dB e RBW 1 MHz Market Level 40.00 dBm offset 10.50 dB e RBW 1 MHz Market Market Mar	Stort 30.0 MHz Stort 30.0 MHz Stort 30.0 MHz Conducted Emission Transmitting Mode CH 810 10GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Mode Auto Sweep MI11 30 dbm MI11 30 dbm	
Image: Sector of the	Stort 30.0 MHz Stop 10.0 GHz Stop 10.0 GHz Ocnducted Emission Transmitting Mode CH 810 10GHz - 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att Made Auto Sweep @IAV View -22.49 dbr 10.019530 GH 30 dbm MI[1] -22.49 dbr 10.019530 GH	
Int: 12.30L 1015 10:57:43 Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz Spectrum Spectrum Stef Level 40.00 dBm Offset 10.50 dB @ RBW 1 MH2 45 dB @WT Mode Auto Sweep Tav View Mode Auto Sweep 110 (Sector) Iav View Mill -23.60 dBm 0 dBm Mill 19.094530 GHz	Stort 30.0 MHz Stop 10.0 GHz Stop 10.0 GHz Date: 12.000.0018 Stop 10.0 GHz Conducted Emission Transmitting Mode CH 810 10GHz - 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att Mode Auto Sweep @1Av View -23.40 dbr 16.019590 GH 20 dbm MI[1] -23.40 dbr 16.019590 GH 10 dbm MI[1] -23.40 dbr 10 dbm	
Inst 12.30L 2018 18:57:43 Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz Spectrum Image: Conducted Supervised and the second sec	Stort 30.0 MHz Stop 10.0 GHz Date: 12.000.2018 18:58:42 Conducted Emission Transmitting Mode CH 810 10GHz - 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB • RBW 1 MHz Att 40 dB SWT 40 ms • VBW 3 MHz MILI 10 - 23.49 dBr 10.019530 GH 30 dBm 10 dBm 10.019530 GH 10 dBm 0 dBm 0 dBm 10 dBm	
Institution Institution Institution Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz Institution Institution Spectrum Image: Construction of the construction	Start 30.0 MHz Stop 10.0 GHz Stop 10.0 GHz Ocnducted Emission Transmitting Mode CH 810 10GHz - 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Att Mate: 1 Att Start 2 Spectrum Spectrum 0 dBm Mate: 1 Att Start 2 Mate:	
Image: Interstate Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz Spectrum Spectrum Spectrum Av View 0 dBm Offset 10.50 dB • RBW 1 MHz Mode Auto Sweep 1Av View 0 dBm Image: Spectrum Image: Spectrum <td colspa<="" td=""><td>Stort 30.0 MHz Stop 10.0 GHz Stop 10.0 GHz Ocnducted Emission Transmitting Mode CH 810 10GHz - 20GHz Spectrum Ref Level 40.00 dm Offset 10.50 dB @ RBW 1 MHz Att 45 dB SWT 40 ms @ VBW 3 MHz Mode Auto Sweep @ LAV View ***********************************</td></td>	<td>Stort 30.0 MHz Stop 10.0 GHz Stop 10.0 GHz Ocnducted Emission Transmitting Mode CH 810 10GHz - 20GHz Spectrum Ref Level 40.00 dm Offset 10.50 dB @ RBW 1 MHz Att 45 dB SWT 40 ms @ VBW 3 MHz Mode Auto Sweep @ LAV View ***********************************</td>	Stort 30.0 MHz Stop 10.0 GHz Stop 10.0 GHz Ocnducted Emission Transmitting Mode CH 810 10GHz - 20GHz Spectrum Ref Level 40.00 dm Offset 10.50 dB @ RBW 1 MHz Att 45 dB SWT 40 ms @ VBW 3 MHz Mode Auto Sweep @ LAV View ***********************************
	Start 30.0 MHz Stop 10.0 GHz Stop 10.0 GHz Ocnducted Emission Transmitting Mode CH 810 10GHz - 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Att Mate: 1 Att Start 2 Spectrum Spectrum 0 dBm Mate: 1 Att Start 2 Mate:	
Institution Institution Institution Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz Institution Institution Spectrum Image: Construction of the construction	Stort 30.0 MHz Stop 10.0 GHz Stort 30.0 MHz Stop 10.0 GHz Date: 12.001.2018 18:58:42 Conducted Emission Transmitting Mode CH 810 10GHz - 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att Made Auto Sweep © IAV View 0 dbm 0 dbm -23.40 dbr -23.40 dbr 20 dbm 0 dbm 0 dbm -21.000 dbr -20.00 dbr -23.40 dbr 10 dbm 0 dbm 0 1 -13.000 dbr 0 dbr -0 dbr	
Image: Non-Addition of the second s	Stert 30.0 MHz Stop 10.0 GHz Date: 12.000.2018 18:58:42 Conducted Emission Transmitting Mode CH 810 10GHz - 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Att > 40 mS @ VBW 3 MHz Mode Auto Sweep 0.44 V VIEW N11(1) -23.49 dBr 30 dBm 10.01950 GH -23.49 dBr 10 dBm -20.48 md 10 dBm	



Test	t Plot	
UMTS band V	UMTS band V	
Conducted Emission Transmitting Mode CH 4132 30MHz – 5GHz	Conducted Emission Transmitting Mode CH 4183 30MHz – 5GHz	
Spectrum 🕎	Spectrum T	
Ref Level 40.00 dBm Offset 10.50 dB RBW 1 MHz Att 45 dB SWT 32 ms WBW 3 MHz Mode Auto Sweep 1AV View 1AV View 132 ms 100 ms <td>RefLevel 40.00 dSm Offset 10.50 dB RBW 1 MH: Att 4 5 dB SWT 32 ms VBW 3 MHz Mode Auto Sweep ●1AV View 0 StAV View 0 StAV View 0</td>	RefLevel 40.00 dSm Offset 10.50 dB RBW 1 MH: Att 4 5 dB SWT 32 ms VBW 3 MHz Mode Auto Sweep ●1AV View 0 StAV View 0 StAV View 0	
M1[1] -23.35 dBm 4.449650 GHz	30 dBm	
10 dBm	20 dBm	
0 d8m	10 dBm	
10 dBm	-10 dBm	
D1 -13.000 dBm	D1 -13.000 dBm	
40 dBm	-40 dBm-	
50 dBm	-50 dBm-	
Rent 30.0 MHz 32000 pts Stop 5.0 GHz ter 12.70L 2016 19124110 Conducted Emission Transmitting Mode CH 4132 5GHz – 10GHz	Start 30.0 MHz 32000 pts Starp 5.0 GHz	
start 30.0 MHz 32000 pts Stop 5.0 GHz te: 12.70L.2018 19:24:10 Conducted Emission Transmitting Mode CH 4132 5GHz – 10GHz Spectrum Ref Lavel 40.00 dBm Offset 10.50 dB • RBW 1 MHz Att 45 db SWT 32 ms • VBW 3 MHz Mode Auto Sweep	Stort 30.0 MHz Stor 5.0 GHz Stor 30.0 MHz Stor 5.0 GHz Date: 12.000 pts Stor 5.0 GHz Conducted Emission Transmitting Mode CH 4183 Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att 45 db SWT 32 mS VBW 3 MHz Mode Auto Sweep	
start 30.0 MHz 32000 pts Stop 5.0 GHz ta: 12.001.2018 19:24:10 Conducted Emission Transmitting Mode CH 4132 Conducted Emission Transmitting Mode CH 4132 5GHz – 10GHz Spectrum Image: Spectrum Image: Spectrum Ref Level 40.00 dBm Offset 10.50 dB • RBW 1 MHz Mode Auto Sweep Att 45 dB SWT 32 ms • VBW 3 MHz Mode Auto Sweep 1Av View M1[1] 6.726640 GHz	Stort 30.0 MHz Storp 5.0 GHz Date: 12.000.018 19:38:22 Conducted Emission Transmitting Mode CH 4183 SGHz - 10GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att 40 db SWT 32 mS @ VBW 3 MHz Mili 1 -19.59 dbm @1Av View Mili 1 -19.59 dbm	
start 30.0 MHz 32000 pts Stop 5.0 GHz ter: 12.700.2018 19:24:10 Conducted Emission Transmitting Mode CH 4132 5GHz – 10GHz Spectrum Image: Conducted Stop 5.0 dHz Spectrum Image: Conducted Stop 5.0 dHz 14V View 12 ms • VBW 3 MHz 14V View 111 10 d8m M1[1] 0 d8m M1[1]	Stort 30.0 MHz Stor 5.0 GHz Original Store Stor 5.0 GHz Date: 12.0UL/2018 19:38:22 Conducted Emission Transmitting Mode CH 4183 SGHz — 10GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Atte: 45 db SWT 32 ms @ VBW 3 MHz Mode Auto Sweep MI[1] -19.59 dbn 0 dbm MI[1] -19.59 dbn Atte: 45 db SWT 32 ms @ VBW 3 MHz Mode Auto Sweep MI[1] -19.59 dbn 30 dbm MI[1] -19.59 dbn	
start 30.0 MHz 32000 pts Stop 5.0 GHz ta: 12.001.2018 19:24:10 Conducted Emission Transmitting Mode CH 4132 Conducted Emission Transmitting Mode CH 4132 5GHz – 10GHz Spectrum Image: Spectrum Image: Spectrum Ref Level 40.00 dBm Offset 10.50 dB • RBW 1 MHz Mode Auto Sweep Att 45 dB SWT 32 ms • VBW 3 MHz Mode Auto Sweep 1Av View M1[1] 6.726640 GHz	Stort 30.0 MHz Stop 5.0 GHz Date: 12.000.2018 10:18:122 Conducted Emission Transmitting Mode CH 4183 Spectrum Ref Level 40.00 dbm Offset 10.50 db • RBW 1 MHz Att 45 db SWT 32 ms • VBW 3 MHz Mil [1] -19.59 dbm MIL 1 -19.59 dbm MIL 1 -19.59 dbm	
stort 30.0 MHz 32000 pts Stop 5.0 GHz ter: 12.101.2018 18:24:10 Conducted Emission Transmitting Mode CH 4132 5GHz – 10GHz Spectrum Image: Spectrum Ref Lavel 40.00 dbm Offset 10.50 db # RBW 1 MHz Att 45 db SWT 12 View M113 -10.60 dbm 6.726640 GHz 00 dbm 0 dbm	Stort 30.0 MHz Storp 5.0 GHz Date: 12.300.018 19:38:22 Conducted Emission Transmitting Mode CH 4183 SGHz - 10GHz SgHz - 10GHz Spectrum Ref Level 40.00 dm Offset 10.50 dB @ RBW 1 MHz MIL Colspan="2">Conducted Emission Transmitting Mode CH 4183 Spectrum Ref Level 40.00 dm Offset 10.50 dB @ RBW 1 MHz MIL Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2" Spectrum Imit Sign 2 mis # VBW 3 MHz Mode Auto Sweep Imit Sign 2 mis # VBW 3 MHz Mode Auto Sweep Imit Sign 2 mis # VBW 3 MHz MIL 30 dBm Imit Sign 2 mis # VBW 3 MHz 20 dBm Imit Sign 2 mis # VBW 3 MHz	
start 30.0 MHz 32000 pts Stop 5.0 GHz start 30.0 MHz 32000 pts Stop 5.0 GHz Conducted Emission Transmitting Mode CH 4132 5GHz – 10GHz 5GHz – 10GHz	Stort 30.0 MHz Stop 5.0 GHz Date: 12.000.000 pts Stop 5.0 GHz Date: 12.000.000 pts Stop 5.0 GHz Conducted Emission Transmitting Mode CH 4183 SGHz – 10GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att 45 dB SWT 20 ms @ VBW 3 MHz Mode Auto Sweep -19.50 dbn -19.50 dbn -19.50 dbn -19.50 dbn 0 dbm 0 dbn -19.50 dbn <td col<="" td=""></td>	
stort 30.0 MHz 32000 pts Stop 5.0 GHz ter: 12.000.0016 Stop 5.0 GHz Conducted Emission Transmitting Mode CH 4132 5GHz – 10GHz Spectrum Spectrum Spectrum ter: 45 db SWT 32 ms VBW M113 -19.68 dbm 6.726640 GHz 00 dbm 00 dbm 0 dbm 0 dbm	Stort 30.0 MHz Stor 5.0 GHz Date: 12.000.018 19:38:22 Conducted Emission Transmitting Mode CH 4183: 5GHz – 10GHz Spectrum Ref Level 40.00 dbm Offset 10.50 dbm MIL Mate: 10.00 dbm Offset 10.50 dbm MIL Mate: 100 Hz Mate: 10.50 dbm MIL MIL -19.59 dbm 0 dbm -19.59 dbm	



Test	t Plot
UMTS band V	UMTS band II
Conducted Emission Transmitting Mode CH 4233	Conducted Emission Transmitting Mode CH 926
30MHz – 5GHz	30MHz – 10GHz
pectrum 🕎	Spectrum
ef Level 40.00 dBm Offset 10.50 dB ● RBW 1 MHz tt 45 dB SWT 32 ms ● VBW 3 MHz Mode Auto Sweep	Ref Level 40.00 dBm Offset 10.50 dB RBW 1 MHz Att 45 dB SWT 39.9 ms VBW 3 MHz Mode Auto Sweep
LAV View M1[1] -22.48 dBm 4.455550 GHz	●1Av View M1[1] -20.58 dB 6.805710 GF
4.4000 GH2	30 dBm
dBm	20 dBm
0.08m	10 dBm
dBm	0 d8m-
0 dBm	-10 dBm 01 -13.000 dBm M1
0 dbm	-40 dBm
0 dBm-	-50 dBm
Stort 30.0 MHz 32000 pts Stop 5.0 GHz	Start 30.0 MHz 32000 pts Stop 10.0 GH:
Conducted Emission Transmitting Mode CH 4233 5GHz – 10GHz	Start 30.0 MHz Start 30.0 MHz
Conducted Emission Transmitting Mode CH 4233 5GHz – 10GHz	Conducted Emission Transmitting Mode CH 926 10GHz – 20GHz
Ar 12.001.2018 19:19:19 Conducted Emission Transmitting Mode CH 4233 5GHz – 10GHz Pectrum ef Level 40.00 dbm Offset 10.50 db • RBW 1 MHz tt 45 db SWT 32 ms • YBW 3 MHz Mode Auto Sweep	Conducted Emission Transmitting Mode CH 926: 10GHz – 20GHz Spectrum Ref Level 40.00 dfm Offset 10.50 dB • RBW 1 MHz Att • 5 dB SWT 40 ms • VBW 3 MHz Mode Auto Sweep
er: 12.301 19:39:38 Conducted Emission Transmitting Mode CH 4233 5GHz – 10GHz pectrum Image: Conducted Base Stress of Stres of Str	Date: 4.70L.2015 11:14:38 Conducted Emission Transmitting Mode CH 926. 10GHz – 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz 45 dB SWT AV View 01AV View MIL 10 01AV View
Image: 12.001.2018 19:19:19 Conducted Emission Transmitting Mode CH 4233 5GHz – 10GHz pectrum Image: 40.00 dbm offset 10.50 db RBW 1 MHz tt 45 db 45 db SWT 22 ms VBW 3 MHz Mode Auto Sweep 124 View 12 dbm	Conducted Emission Transmitting Mode CH 926 10GHz – 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att 45 db SWT 40 ms @ VBW 3 MHz Mode Auto Sweep 10.121 Mag 2.43 db 30 dbm M1[1] -23.43 db -23.43 d
Image: 12.001.2018 19:19:19 Conducted Emission Transmitting Mode CH 4233 5GHz – 10GHz pectrum Image: 10.00 dB offset 10.50 dB • RBW 1 MHz ttt Image: 10.00 dB • RBW	Nate: 4.301.2018 Date: 4.301.2018 Conducted Emission Transmitting Mode CH 926: 10GHz – 20GHz Spectrum Reftevel 40.00 dbm Offset 10.50 db MIL Mate: 4.301 Offset 10.50 db Mate: 4.308 Spectrum Reftevel 40.00 dbm MIL Mate: 45 db SWT MIL Mate: 4.308 MIL Mate: 4.308 MIL Mate: 4.308 MIL Mate: 4.308 MIL MIL <
Best 12, NUL, 2018 19:19:38 Conducted Emission Transmitting Mode CH 4233 5GHz – 10GHz Pectrum Image: Conducted Base Stream of the stream of	Date: 4.70L.2018 11:14:39 Conducted Emission Transmitting Mode CH 926. 10GHz – 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Att 45 dB SWT 40 ms @ VBW 3 MHz Made Auto Sweep @1Av View M1[1] -23.43 dB 16.021090 Gl -23.43 dB 20 dBm 10 dBm 10 dBm 10 dBm
Image: 12.001.2018 19:13:18 Conducted Emission Transmitting Mode CH 4233 5GHz 10GHz pectrum Image: 10:00 dBm Offset 10:50 dB RBW 1 MHz Mode Auto Sweep Mode Auto Sweep 19:00 dBm Adv View 19:00 dBm M1(1) 19:00 dBm o dBm Main 19:00 dBm Main o dBm Main Main Main 0 dBm Main Main Main Main 0 dBm Main Main Main Main	Note: 4.000.000 Note: 10.2018 Conducted Emission Transmitting Mode CH 926: 10GHz – 20GHz Spectrum Reflexel 40.00 dem Offset 10.50 de @ RBW 1 MHz Att Mude Auto Sweep @1AV View -23.43 de 16.021090 ch 20 dem 10 dem 10 dem -23.43 de 16.021090 ch
Image: 12.000.2018 19:39:38 Conducted Emission Transmitting Mode CH 4233 5GHz – 10GHz pectrum Image: 10.00 dbm Offset 10.50 db RBW 1 MHz 45 db SWT 32 ms VBW 3 MHz Mode Auto Sweep Lav View M1[1] -19.00 dBm 6.995390 CHz 0 dBm Image: 10.00 dbm M1[1] -19.00 dBm	Date: 4.000.0008 11:14:30 Conducted Emission Transmitting Mode CH 926. 10GHz – 20GHz Spectrum Ref Level 40.00 db offset 10.50 db of RBW 1 MHz Att Mode Auto Sweep 01Av View MI[1] 0 dbm
Image: 12.001.2018 19:39:38 Conducted Emission Transmitting Mode CH 4233 5GHz – 10GHz Pectrum Image: 10:50 dB • RBW 1 MHz tt 45 dB • SWT 32 ms • VBW 3 MHz Mode Auto Sweep LAV View Milling -19:90 dBm 0 dBm 0 dBm 0 dBm 0 dBm	Note: 4.000.2018 11:34:30 Conducted Emission Transmitting Mode CH 926: 10GHz – 20GHz Spectrum Reflexed 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att 45 db SWT 40 ms @ VBW 3 MHz Mode Auto Sweep Ø1Av View -23.43 db 16.021090 Gb 20 dbm 10 dbm 10 dbm 0 dbm 0 dbm 0 dbm 0 dbm 0 dbm
Image: 12.001.2018 19:39:38 Conducted Emission Transmitting Mode CH 4233 5GHz – 10GHz Pectrum Image: 10:50 dB • RBW 1 MHz tt 45 dB • SWT 32 ms • VBW 3 MHz Mode Auto Sweep LAV View Milling -19:90 dBm 0 dBm 0 dBm 0 dBm 0 dBm	Note: 4.000.2018 11:34:30 Conducted Emission Transmitting Mode CH 926: 10GHz – 20GHz Spectrum Reflexed 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att 45 db SWT 40 ms @ VBW 3 MHz Mode Auto Sweep Ø1Av View -23.43 db 16.021090 Gb 20 dbm 10 dbm 10 dbm 0 dbm 0 dbm 0 dbm 0 dbm 0 dbm
	Spectrum E Ref Level 40.00 dBm Offset 10:50 db @ RBW 1 MH: 45 db SWT Mode Auto Sweep 91AV View MI[1] -28:43 db 16.021090 di 10.021090 db 90 dBm 0 dBm 0 10 dBm 0 0 10 dBm 0 0 10 dBm 0 0 10 dBm 0 0
	Spectrum Producted Emission Transmitting Mode CH 926. 10GHz - 20GHz Spectrum Producted Emission Transmitting Mode CH 926. 10GHz - 20GHz



Test Plot		
UMTS band II	UMTS band II	
Conducted Emission Transmitting Mode CH 9400	Conducted Emission Transmitting Mode CH 953	
30MHz – 10GHz	30MHz – 10GHz	
Spectrum	Spectrum Image: Spectrum Ref Level 40.00 dbm Offset 10.50 db ● RBW 1 MHz	
Att 45 dB SWT 39.9 ms VBW 3 MHz Mode Auto Sweep	Att 45 dB SWT 39.9 ms VBW 3 MHz Mode Auto Sweep	
30 d8m	30 dBm	
20 d8m	20 d8m	
10 dBm	10 dBm	
0 d8m	0 d8m	
-10 dBm	-10 dBm 01 -13.000 dBm M1	
20 dBm Constant and the state of the s		
40 dBm		
-50 dBm	-40 dBm	
Conducted Emission Transmitting Mode CH 9400	Conducted Emission Transmitting Mode CH 953	
Stort 20.0 MHz 32000 pts Stop 10.0 GHz Stop 10.0 GHz Stop 10.0 GHz CH 9400 10GHz – 20GHz	Nesodag.	
Conducted Emission Transmitting Mode CH 9400 10GHz – 20GHz	Conducted Emission Transmitting Mode CH 953 10GHz – 20GHz	
Ate: 4.301.2018 11:37:12 Conducted Emission Transmitting Mode CH 9400 10GHz – 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz 45 dB SWT 40 ms @ VBW 3 MHz Mode Auto Sweep Bit V Iew	Date: 4.,JUL, 2018 11:33:44 Conducted Emission Transmitting Mode CH 953: 10GHz – 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Att 45 dB & SWT 40 ms @ VBW 3 MHz Made Auto Sweep @ 1AV VBW	
And 4VI. 2018 11:37:12 Conducted Emission Transmitting Mode CH 9400 10GHz – 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB • RBW 1 MHz Att 4: dB SWT 40 ms • VBW 3 MHz Mode Auto Sweep	Mate: 4.5012.2018 11:39:44 Conducted Emission Transmitting Mode CH 953: 10GHz – 20GHz Spectrum Reflevel 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att = 45 db SWT = 40 ms @ VBW 3 MHz Mate: Mode Auto Sweep MI13 Offset 10.50 db @ RBW 1 MHz Mate: Mode Auto Sweep MI13 Offset 10.50 db @ RBW 1 MHz Mate: Mode Auto Sweep	
Ate: 4.701.2018 11:37:12 Conducted Emission Transmitting Mode CH 9400 10GHz – 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att 45 db SWT 40 ms @ VBW 3 MHz Mode Auto Sweep 14/ View 14/ View 14/ View 19.713280 GHz 30 dbm	Date: 4.30L.3018 11:33:44 Conducted Emission Transmitting Mode CH 953 10GHz – 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Att 45 dB SWT 40 ms @ VBW 3 MHz Mode Auto Sweep 11/13:44 Offset 10.50 dB @ RBW 1 MHz Att 45 dB SWT 40 ms @ VBW 3 MHz Mode Auto Sweep 11/12/12/10 GI	
Ate: 4.701.2018 11:37:12 Conducted Emission Transmitting Mode CH 9400 10GHz – 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att 45 db SWT 40 ms @ VBW 3 MHz Mode Auto Sweep 14/ View 14/ View 14/ View 19.713280 GHz 30 dbm	Conducted Emission Transmitting Mode CH 953 10GHz – 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att 40 ms @ VBW 3 MHz Mode Auto Sweep 01Av View 30 dbm M1[1] -22.29 db -22.29 db 16.721720 Gb	
Atte: 4.101.2018 111:37:12 Conducted Emission Transmitting Mode CH 9400 10GHz – 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB e RBW 1 MHz 45 dB SWT Mode Auto Sweep 214 View -22.05 dBm 30 dBm N1111 -22.05 dBm 30 dBm 0 dBm 19.713280 GHz	Date: 4.3012.3018 11:39:44 Conducted Emission Transmitting Mode CH 9538 10GHz – 20GHz Spectrum Reflevel 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att 45 db SWT 40 ms @ VBW 3 MHz Mode Auto Sweep © 1AV View -22.29 db 16.721720 Gh 20 dbm	
ate: 4.000.2018 11:37:12 Conducted Emission Transmitting Mode CH 9400 10GHz – 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db • RBW 1 MHz 45 db SWT 40 ms • VBW 3 MHz Mode Auto Sweep 91Av View 20 dbm 10 dbm 04 m 0 dbm 0 dbm 0 dbm 0 dbm 01 - 13.000 dbm	Conducted Emission Transmitting Mode CH 9538 10GHz – 20GHz Spectrum Reflevel 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att Mode Auto Sweep @1AV View -22.29 db -22.29 db -22.29 db -22.29 db 30 dbm	
Atte: 4NUL.2018 111.37:12 Conducted Emission Transmitting Mode CH 9400 10GHz – 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB • RBW 1 MHz 40 ms • VBW 3 MHz Mode Auto Sweep 81AV View -22.95 dBm 30 dBm 19.713280 GHz 10 dBm 0 dBm 10 dBm 0 dBm	Date: 4NUL.2018 11:39:44 Conducted Emission Transmitting Mode CH 9538 10GHz – 20GHz Spectrum Reflevel 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att _ 45 db SWT _ 40 ms @ VBW 3 MHz _ Mode Auto Sweep @1Av View -22.29 db 16.721720 Gl 30 dbm IIII 1322.29 db 16.721720 Gl 20 dbm IIII 1322.29 db 16.721720 Gl 0 dbm IIII 1322.29 db 16.721720 Gl 0 dbm IIIII 1322.29 db 16.721720 Gl 0 dbm IIIII 1322.29 db 16.721720 Gl	
ate: 4.000.2018 11:37:12 Conducted Emission Transmitting Mode CH 9400 10GHz – 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db • RBW 1 MHz 45 db SWT 40 ms • VBW 3 MHz Mode Auto Sweep 91Av View 20 dbm 10 dbm 04 m 0 dbm 0 dbm 0 dbm 0 dbm 01 - 13.000 dbm	Conducted Emission Transmitting Mode CH 9538 10GHz – 20GHz Spectrum Reflevel 40.00 dbm Offset 10.50 db @ RBW 1 MHz Att Mode Auto Sweep @1AV View -22.29 db -22.29 db -22.29 db -22.29 db 30 dbm	
Attack 4.1001.2018 311.37:12 Conducted Emission Transmitting Mode CH 9400 10GHz - 20GHz Image: Conducted Emission Transmitting Mode CH 9400 Spectrum Image: Conducted Emission Transmitting Mode CH 9400 Image: Conducted Emission Transmitting Mode CH 9400 Spectrum Image: Conducted Emission Transmitting Mode CH 9400 Image: Conducted Emission Transmitting Mode CH 9400 Spectrum Image: Conducted Emission Transmitting Mode Auto Sweep Image: Conducted Emission Transmitting Mode Auto Sweep Start View 45 dB SWT Miss of View 3 MHz Mode Auto Sweep Start View Military 100 (Image: Conducted Emission Christian) -22.05 (Image: Conducted Emission Christian) 30 dBm Military 100 (Image: Conducted Emission) Military 100 (Image: Conducted Emission) -22.05 (Image: Conducted Emission) 30 dBm Military 100 (Image: Conducted Emission) Military 100 (Image: Conducted Emission) -22.05 (Image: Conducted Emission) 30 dBm Military 100 (Image: Conducted Emission) Military 100 (Image: Conducted Emission) -22.05 (Image: Conducted Emission) 30 dBm Military 100 (Image: Conducted Emission) Military 100 (Image: Conducted Emission) -22.05 (Image: Conducted Emission) 30 dBm Military 100 (Ima	Date: 4.701L-2018 11:39:44 Conducted Emission Transmitting Mode CH 953: 10GHz – 20GHz Spectrum @ Ref Level 40.00 dbm 0ffset 10.50 db = RBW 1 MHz Att 40 ms = VBW 3 MHz Mode Auto Sweep 9 1Av View M1[1] 0 dbm 16.721720 GF 10 dbm 0 0 dbm 0 10 dbm 0 0 dbm 0	
Alte: 4.701.2018 11:37:12 Conducted Emission Transmitting Mode CH 9400 10GHz - 20GHz Image: Conducted Emission Transmitting Mode CH 9400 Spectrum Image: Conducted Emission Transmitting Mode CH 9400 Image: Conducted Emission Transmitting Mode CH 9400 Spectrum Image: Conducted Emission Transmitting Mode Auto Sweep Image: Conducted Emission Transmitting Mode Auto Sweep Spectrum Image: Conducted Emission Transmitting Mode Auto Sweep Image: Conducted Emission Transmitting Mode Auto Sweep Stat Add ms @ VBW 3 MHz Mode Auto Sweep Image: Conducted Emission Transmitting Mode Auto Sweep Stat Add ms @ VBW 3 MHz Mode Auto Sweep Image: Conducted Emission Transmitting Mode Auto Sweep Stat Add ms @ VBW 3 MHz Mode Auto Sweep Image: Conducted Emission Transmitting Mode Auto Sweep Stat Add ms @ VBW 3 MHz Mode Auto Sweep Image: Conducted Emission Transmitting Mode Auto Sweep Stat Add ms Mill 3 Image: Conducted Emission Transmitting Mode Auto Sweep Stat Add ms Mill 3 Image: Conducted Emission Transmitting Mode Auto Sweep Stat Add ms Mill 3 Image: Conducted Emission Transmitting Mode Auto Sweep	Spectrum Producted Emission Transmitting Mode CH 9538 10GHz - 20GHz Spectrum Ref Level 40.00 dbm Offset 10.50 db = RBW 1 MHz 45 db Mode Auto Sweep B1AV View -22.29 db -22.29 db -22.29 db 0 dbm -0 dbm -0 dbm -0 dbm 10 dbm -0 dbm -0 dbm -0 dbm -20 dbm -0 dbm -0 dbm -0 dbm -50 dbm -10 dbm -10 dbm -10 dbm -10 dbm	
Alter 4.1012.2018 111:37:12 Conducted Emission Transmitting Mode CH 9400 10GHz – 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB e RBW 1 MHz Att 45 ds SWT 40 ms e VBW 3 MHz Mode Auto Sweep 214V View -22.95 dBm 19.713280 GHz 20 dBm 0 dBm -22.95 dBm 19.713280 GHz 10 dBm 01 -13.000 dBm -41.41.41.41.41.41.41.41.41.41.41.41.41.4	Spectrum Mile Spectrum Spectrum <th< td=""></th<>	



Test Plot		
UMTS band IV	UMTS band IV	
Conducted Emission Transmitting Mode CH 1312	Conducted Emission Transmitting Mode CH 141	
30MHz – 10GHz	30MHz – 10GHz	
Spectrum 🕎		
RefLevel 40.00 dBm Offset 10.50 dB ● RBW 1 MHz Att 45 dB SWT 39.9 ms ● VBW 3 MHz Mode Auto Sweep 1/4 View	RefLevel 40.00 dBm Offset 10.50 dB (a) 8 RBW 1 MHz Att 45 dB SWT 39.9 ms VBW 3 MHz Mode Auto Sweep ●1Av View 40.00 dB Comparison No	
M1[1] -19.57 dBm 6.938430 GHz	M1[1] -18.52 dB 6.751180 G	
30 d8m	30 dBm	
20 dBm	20 dBm	
10 d8m	10 dBm	
D dBm		
01 - 13.000 dBm M1	-10 dBm 01 -13.000 dBm M1	
50 dBm	-50 dBm	
Start 30.0 MHz 32000 pts Stop 10.0 GHz	Start 30.0 MHz 32000 pts Stop 10.0 GH	
Conducted Emission Transmitting Mode CH 1312	Date: 4.JUL.2018 14:20:52	
-ODOUCLEO EMISSION TRADSMITUNO MODE UN 1312		
10GHz – 20GHz	10GHz – 20GHz	
10GHz – 20GHz	10GHz – 20GHz	
10GHz – 20GHz	10GHz – 20GHz	
10GHz - 20GHz Effective Ref Level 40.00 dBm Offset 10.50 dB ● RBW 1 MHz 45 dB ■ SWT 40 ms ● VBW 3 MHz Att 45 dB SWT 40 ms ● VBW 3 MHz Mode Auto Sweep 11AV View 23.24 dBm	IOGHz - 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Mode Auto Sweep Att 45 dB SWT 40 ms @ VBW 3 MHz Mode Auto Sweep B JAV View View 3 MHz Mode Auto Sweep	
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IOGHz – 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Att 45 dB SWT 40 ms @ VBW 3 MHz Mode Auto Sweep 11AV View M1[1] 19.756410 GHz	IOGHz - 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB RBW 1 MHz Att 45 dB SWT 40 ms VBW 3 MHz Mode Auto Sweep •1Av View MI[1] -23.23 dB 19.771090 GH	
IDGHz – 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Att Mode Auto Sweep Att 45 dB @WT 40 ms @ VBW 3 MHz Mode Auto Sweep D1Av View MI[1] -22.24 dBm 0 dBm MI[1] -23.24 dBm 0 dBm MI[1] -23.24 dBm	IOGHz – 20GHz Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz At ds dB sWT 40 ms @ VBW 3 MHz Made Auto Sweep 40 ms @ VBW 3 MHz Made Auto Sweep 40 ms @ VBW 3 MHz Made Auto Sweep 40 ms @ VBW 3 MHz Made Auto Sweep 40 ms @ VBW 3 MHz Made Auto Sweep 40 ms @ VBW 3 MHz Made Auto Sweep 40 ms @ VBW 3 MHz Made Auto Sweep 40 ms @ VBW 3 MHz Made Auto Sweep 40 ms @ VBW 3 MHz Made Auto Sweep 40 ms @ VBW 3 MHz	
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IOGHz – 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB	IOGHz – 20GHz Reftevel 40.00 dBm Offset 10.50 dB © RBW 1 MHz Att 45 dB SWT 40 ms © YBW 3 MHz Mode Auto Sweep ©1Av View	
IOGHz – 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz 45 dB @WT 40 ms @ VBW 3 MHz Mode Auto Sweep NI113 -29.24 dBm 30 dBm MI[1] -29.24 dBm 0 dBm 0 dBm 0 dBm	IOGHz – 20GHz Ref Level 40.00 dBm Offset 10.50 dB © RBW 1 MHz Att 45 dB SWT 40 ms © YBW 3 MHz Mode Auto Sweep 12v View -29.23 dB 19.771090 dT 30 dBm 19.771090 dT 10 dBm 0 dBm 0 dBm 0 dBm	
IDGHz – 20GHz Spectrum Spectrum 45 db Offset 10.50 db 8 RW 1 MHz Mode Mode Auto Sweep V1Av View M1[1] -92.24 dbm 30 dbm 19.756+10 cHz 19.756+10 cHz 30 dbm 10 dbm 10 dbm 10 dbm	IOGHz – 20GHz Spectrum Ref Level 40.00 d8m Offset 10.50 d8 # RBW 1 MHz At a 5 d8 SWT 40 ms @ VBW 3 MHz Mode Auto Sweep @1Av View -23.23 d8 91.7711990 c1 19.7711990 c1 19.7711990 c1 30 d8m	
IDGHz – 20GHz Spectrum Spectrum 45 db Offset 10.50 db 8 RW 1 MHz Mode Mode Auto Sweep V1Av View M1[1] -92.24 dbm 30 dbm 19.756+10 cHz 19.756+10 cHz 30 dbm 10 dbm 10 dbm 10 dbm	IOGHz – 20GHz Spectrum Ref Level 40.00 d8m Offset 10.50 d8 # RBW 1 MHz At a 5 d8 SWT 40 ms @ VBW 3 MHz Mode Auto Sweep @1Av View -23.23 d8 91.7711990 c1 19.7711990 c1 19.7711990 c1 30 d8m	
Indext Constraint Spectrum Image: Spect	IOGHz – 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB © RBW 1 MHz Att 45 dB SWT 40 ms © VBW 3 MHz Mode Auto Sweep IAV View 30 dBm 19.771090 dI 20 dBm 10 dBm 10 dBm 10 dBm 10 dBm 10 dBm 20 dBm 10 dBm 10 dBm 20 dBm 10 dBm 10 dBm	
IDGHz – 20GHz Spectrum Ref Level 40.00 dBm Att dS B SVT 40 ms & VBW 3 MHz Nade Auto Sweep 11/11/1 10/11/11/11/11/11/11/11/11/11/11/11/11/1	IOGHz – 20GHz Spectrum Ref Level 40.00 dBm Offset 10.50 dB @ RBW 1 MHz Mode Auto Sweep 1/2 View IAV View 1/2 View MI(1) -23.23 dB 20 dBm 1/2 - 23.23 dB 1/2 - 23.23 dB 20 dBm 1/2 - 23.23 dB 1/2 - 23.23 dB 20 dBm 1/2 - 23.23 dB 1/2 - 23.23 dB 20 dBm 1/2 - 23.23 dB 1/2 - 23.23 dB 20 dBm 1/2 - 23.23 dB 1/2 - 23.23 dB 20 dBm 1/2 - 23.23 dB 1/2 - 23.23 dB 20 dBm 1/2 - 23.23 dB 1/2 - 23.23 dB 20 dBm 1/2 - 23.23 dB 1/2 - 23.23 dB 20 dBm 1/2 - 23.23 dB 1/2 - 23.23 dB 20 dBm 1/2 - 23.23 dB 1/2 - 23.23 dB 20 dBm 1/2 - 23.23 dB 1/2 - 23.23 dB -10 dBm 1/2 - 20.23 dB 1/2 - 20.23 dB -10 dBm 1/2 - 20.23 dB 1/2 - 20.23 dB -20 dBm 1/2 - 20.23 dB 1/2 - 20.23 dB -20 dBm 1/2 - 20.	



Tes	t Plot
UMTS band IV	
Conducted Emission Transmitting Mode CH 1513	
30MHz – 10GHz	
Spectrum Imm Ref Level 40.00 d8m Offset 10.50 d8 ● RBW 1 MHz	
Att 45 dB SWT 39.9 ms ♥ VBW 3 MHz Mode Auto Sweep ●1Av View	
30 dBm 6.939620 GHz	
20 dBm	
10 dBm	
0 d8m	
-10 dBm 01 -13.000 dBm 04 04 04 04 04 04 04 04 04 04 04 04 04	
-40 dBm-	
-50 dBm	
Start 30.0 MHz 32000 pts Stop 10.0 GHz	
Date: 4.101.2018 14:18:29	
Conducted Emission Transmitting Mode CH 1513 10GHz – 20GHz	
Spectrum Imm Ref Level 40.00 dBm Offset 10.50 dB ⊕ RBW 1 MHz	
Att 45 dB SWT 40 ms ● VBW 3 MHz Mode Auto Sweep ●1Av View ● <td></td>	
30 dBm	
20 dBm	
10 dBm	
-10 dBm-	
D1 -13.000 dBm	
-40 d8m	
-50 dBm	
Start 10.0 GHz 32000 pts Stop 20.0 GHz	
Date: 4.JUL.2018 14:19:18	
END OF R	EPORT