ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART B, C & SUBPART L REQUIREMENT REFERENCING TEST DATA ACROSS SEPARATE EQUIPMENT VERIFICATION

OF

Product Name:	**Phablet**
Brand Name:	**HP**
Model No.:	**HSTNH-F606V**
Model Difference:	**N/A**
FCC ID:	**B94HHF606V**
Report No.:	**ER/2017/20026**
Issue Date:	**Feb. 10, 2017**
FCC Rule Part:	**2 , 22H & 24E & 27B, C & L**
Prepared for:	**HP Inc. 3390 East Harmony Road Fort Collins, Colorado 80528 United States**
Prepared by:	**SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803**

ilac-MRA TAF Testing Laboratory 0513	***Note:*** *This report shall not be reproduced except in full, without the written approval of SGS Taiwan Ltd. This document may be altered or revised by SGS Taiwan Ltd. personnel only, and shall be noted in the revision section of the document.*

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VERIFICATION OF COMPLIANCE

Applicant:	HP Inc. 3390 East Harmony Road Fort Collins, Colorado 80528 United States
Product Name:	Phablet
Brand Name:	HP
Model No.:	HSTNH-F606V
Model Difference:	N/A
FCC ID:	B94HHF606V
Report Number:	ER/2017/20026
Date of test:	Apr. 20, 2016 ~ Feb. 06, 2017
Date of EUT Received:	Apr. 20, 2016

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Test By:	Tin Lin	***Date:***	Feb. 10, 2017
	Tin Lin / Engineer		
Prepared By:	Tiffany Kao	***Date:***	Feb. 10, 2017
	Tiffany Kao / Clerk		
Approved By:	Jim Chang	***Date:***	Feb. 10, 2017
	Jim Chang / Asst. Manager		

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Revision History

Report Number	Revision	Description	Issue Date
ER/2017/20026	Rev.00	Initial creation of document	Feb. 10, 2017

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1 GENERAL INFORMATION

1.1 Product description

Product Name:	Phablet
Brand Name:	HP
Model No.:	HSTNH-F606V
Model Difference:	N/A
Product SW/HW version:	V04 / PV
Radio SW/HW version:	N/A / PV
Test SW Version:	N/A
RF power setting in TEST SW:	N/A
USB Type-C Cable:	Model No.: 836233-001, Supplier: Luxshare-ICT
Earphone:	Model No.: EH001, Supplier: 1MORE
USB-C to VGA:	Model No.: KSC0021, Supplier: BIZLINK INTERNATIONAL CORP
USB-C to HDMI:	Model No.: KSC0012, Supplier: BIZLINK INTERNATIONAL CORP
USB-C to DP:	Model No.: KSC0044, Supplier: BIZLINK INTERNATIONAL CORP
Wireless Charger:	Model No.: TPA-M601, Supplier: Merry Electronics Co Ltd
Docking Station:	Model No.: HSTNH-F601, Supplier: HP Inc.
Adapters for Docking Station:	1. Model No.: HSTNN-CA40, Supplier: Chicony Power Technology Co., LTd. 2. Model No.: HSTNN-LA40, Supplier: Lite-On Technology Corporation 3. Model No.: HSTNN-DA40, Supplier: DELTA ELECTRONICS INC 4. Model No.: HSTNN-AA44; Supplier: Acbel Polytech Inc.
Power Supply:	3.85Vdc from Rechargeable Li-polymer Battery or 5.3V / 5.25V from AC/DC Adapter
	Battery: Model No.: HSTNH-F606-DP, Supplier: DYNAPACK INTERNATIONAL TECHNOLOGY CORP
	Adapter: 1. Model No.: WAD005, Supplier: Acbel Polytech Inc. (10.6W, 5.3V) 2. Model No.: TPN-AA01, Supplier: Acbel Polytech Inc. (15W, 5.25V)

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1.2 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22, 24, 27

ANSI / TIA / EIA 603-D-2010

KDB971168 D01 Power Meas license Digital System

KDB941225 of the Output power Procedure of (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

TS 151 010-1 is used to set, and measure the output power.

Note: All test items have been performed and record as per the above standards.

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 (TAF code 0513)

FCC Registration Numbers are: 509634

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Radiated)

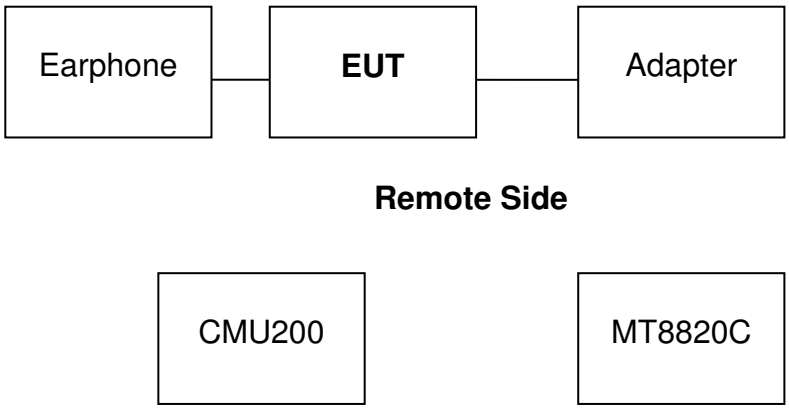

Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded
2.	Universal Radio Communication Tester	Anritsu	MT8820C	6200307563	shielded	Un-shielded
3.	DC Power Supply	HP	E3640A	MY40005907	shielded	Un-shielded
4.	Earphone	HP	EH001	N/A	N/A	N/A

3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(a)(4) §27.53(g) §27.53(h) §27.53(m)(4)	Field Strength of Spurious Radiation	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	RADIATED EMISSION
GSM 850	E2-plan
GPRS 1900	E2-plan
HSPA Band II	E2-plan
HSPA Band IV	E2-plan
LTE Band 2	E2-plan
LTE Band 4	E2-plan
LTE Band 5	H-plan
LTE Band 7	E1-plan
LTE Band 12	H-plan
LTE Band 30	E1-plan

GSM/GPRS/EDGE/WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
Above 1GHz RADIATED EMISSION	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GSM 850 GPRS 1900
Above 1GHz RADIATED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	HSDPA Band II HSUPA Band IV WCDMA Band V

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LTE MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
Above 1GHz RADIATED EMISSION	18625 to 19175	18625, 18900, 19175	5MHz	QPSK	LTE B2 1 RB, 0 RB Offest
Above 1GHz RADIATED EMISSION	19965 to 22385	19965, 20175, 22385	3MHz	16QAM,	LTE B4 1 RB, 0 RB Offest
Above 1GHz RADIATED EMISSION	20425 to 20625	20425, 20525, 20625	5MHz	QPSK	LTE B5 1 RB/ 0 RB Offest
Above 1GHz RADIATED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK,	LTE B7 1 RB, 0 RB Offest
Above 1GHz RADIATED EMISSION	23035 to 23155	23035, 23095, 23155	5MHz	16QAM	LTE B12 1 RB, 24 RB Offest
Above 1GHz RADIATED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK	LTE B30 1 RB, 0 RB Offest

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
6dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Peak Power Density	+/- 1.3 dB
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : **Vertical**)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : **Horizontal**)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 RADIATED SPURIOUS EMISSION MEASUREMENT

6.1 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017
Loop Antenna	ETS-Lindgren	6502	148045	09/20/2016	09/19/2017
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/19/2016	12/18/2017
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/05/2017	01/04/2018
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/05/2017	01/04/2018
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/05/2017	01/04/2018
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/05/2017	01/04/2018
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/05/2017	01/04/2018
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018

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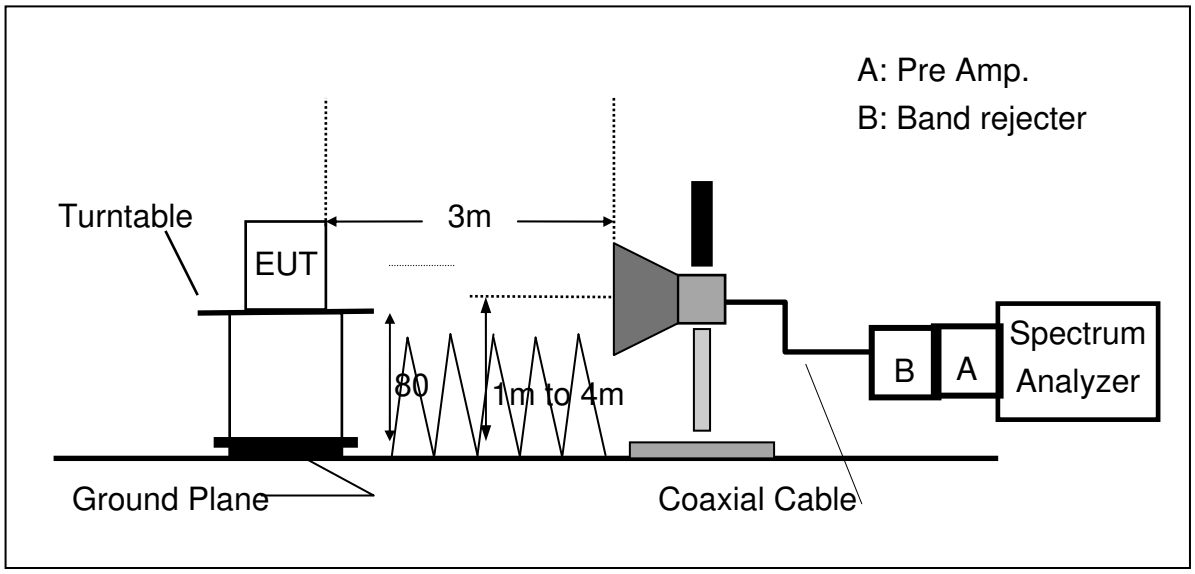
6.2 Test SET-UP

Radiated Emission Test Set-UP Frequency Over 1 GHz



6.3 Measurement Procedure

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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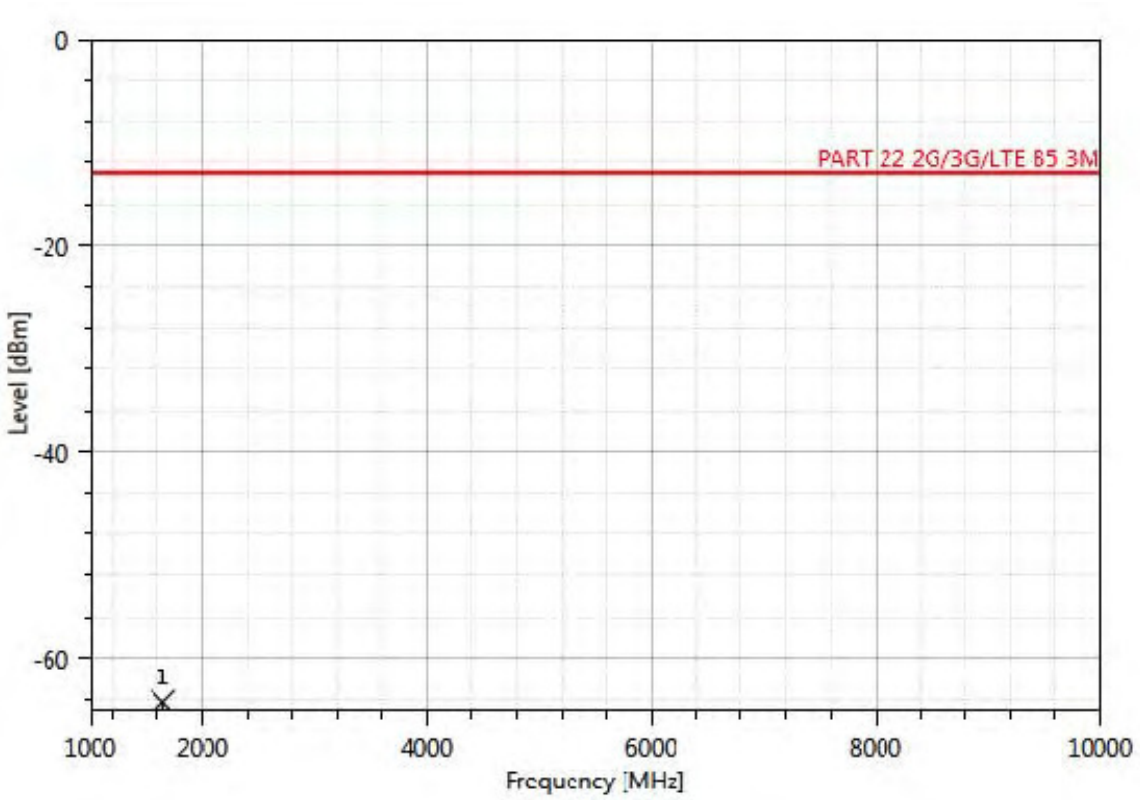
6.4 Measurement Result

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode :	GSM 850	Test Date :	01/11/2017
Fundamental Frequency :	824.2 MHz	Temp. / Humi. :	24 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB
1648.40	H	Peak	-64.28	-67.17	7.11	-4.22	-13.00	-51.28

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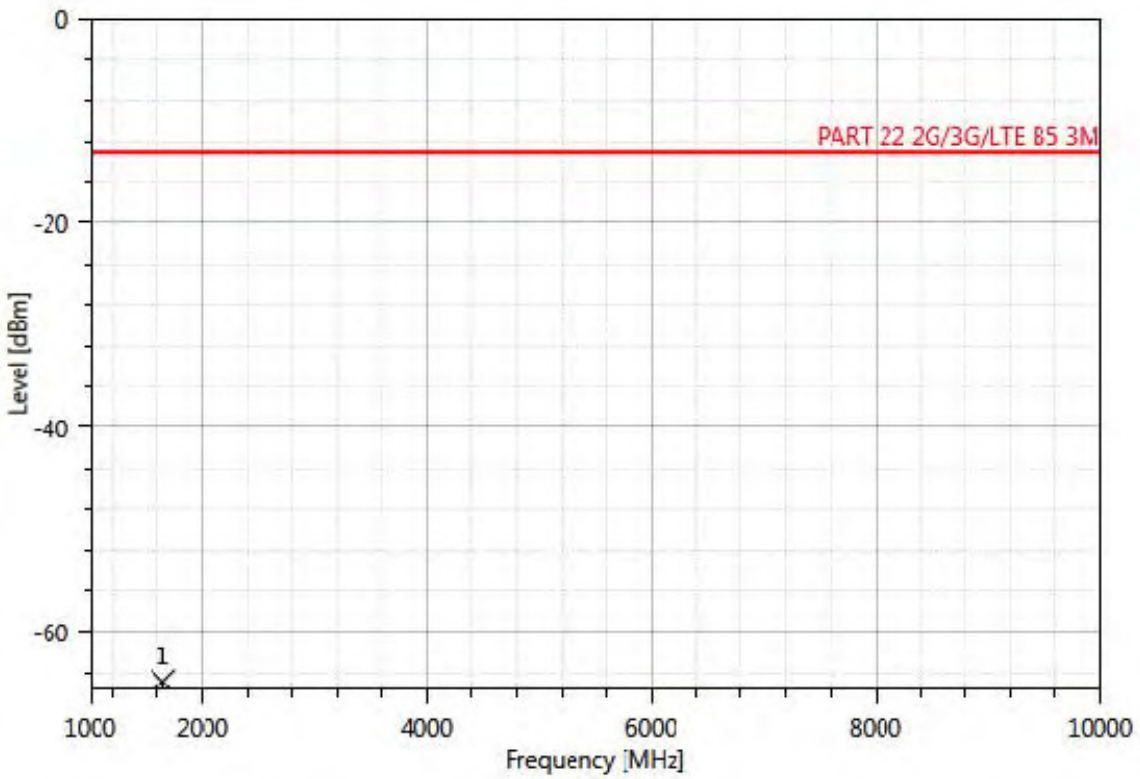
Operation Mode :	GSM 850	Test Date :	01/11/2017
Fundamental Frequency :	824.2 MHz	Temp. / Humi. :	24 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	ERP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
1648.40	H	Peak	-64.86	-67.75	7.11	-4.22	-13.00	-51.86

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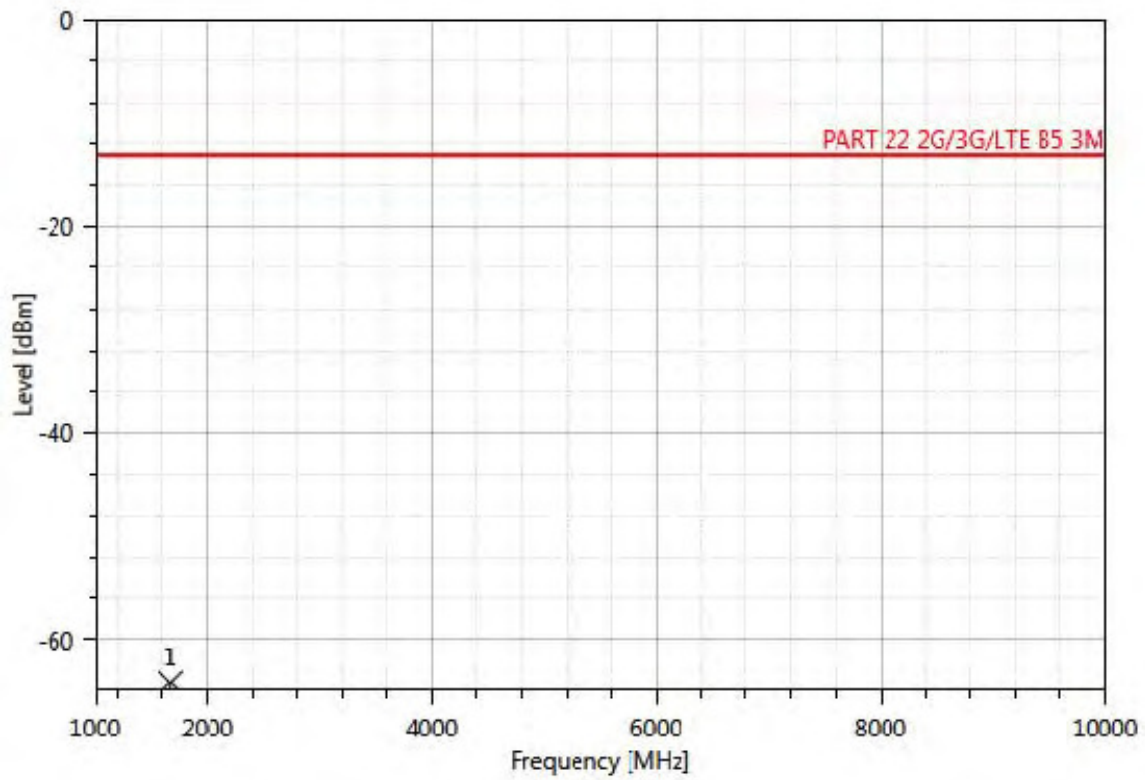
Operation Mode :	GSM 850	Test Date :	01/11/2017
Fundamental Frequency :	836.6 MHz	Temp. / Humi. :	24 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	ERP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	Peak	-64.08	-66.99	7.20	-4.29	-13.00	-51.08

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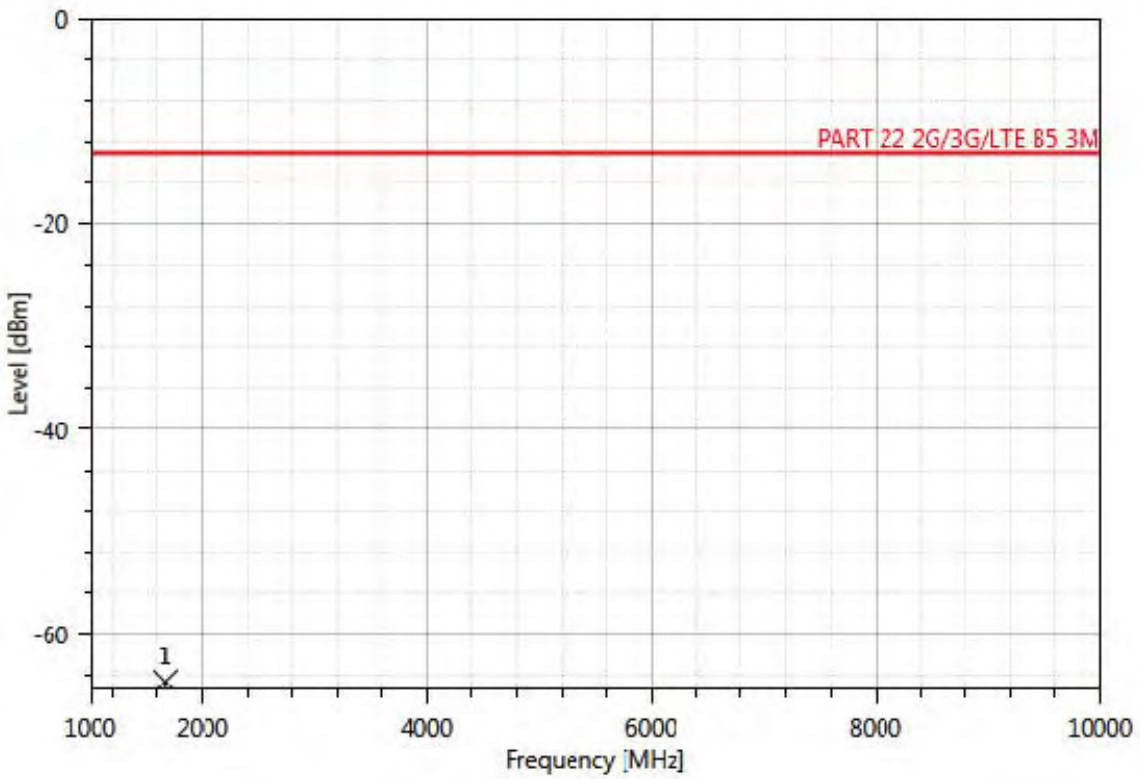
Operation Mode :	GSM 850	Test Date :	01/11/2017
Fundamental Frequency :	836.6 MHz	Temp. / Humi. :	24 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	ERP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	Peak	-64.55	-67.46	7.20	-4.29	-13.00	-51.55

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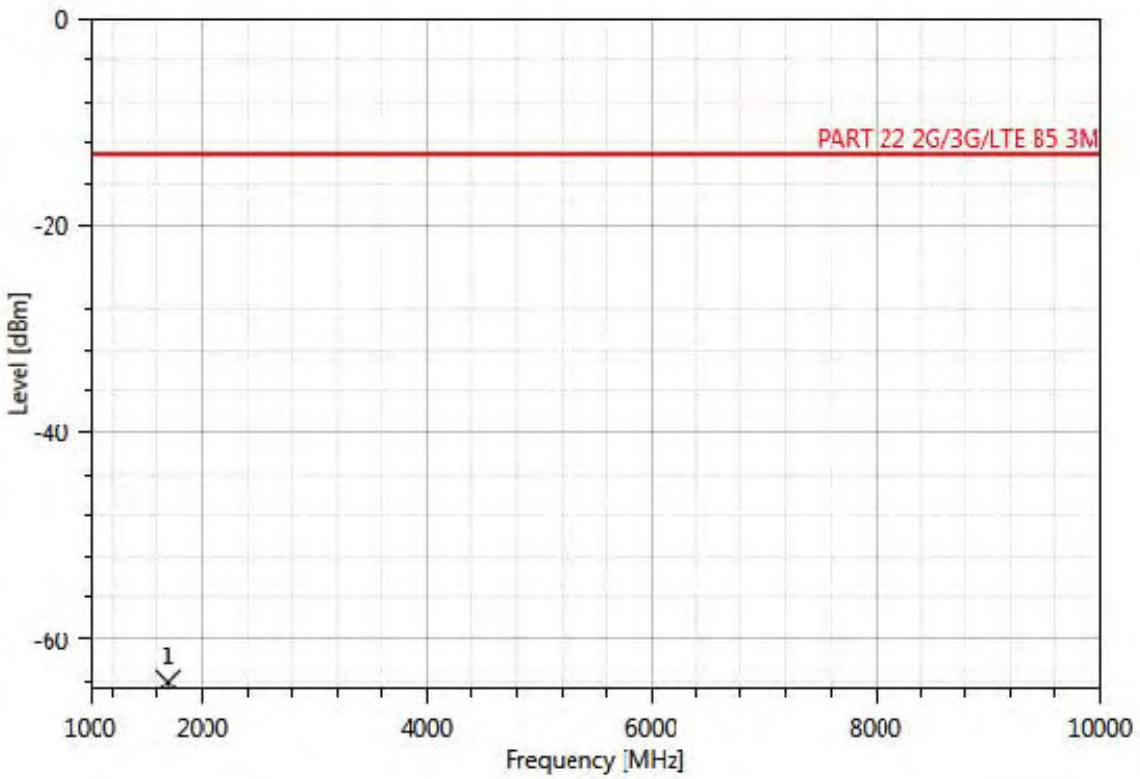
Operation Mode :	GSM 850	Test Date :	01/11/2017
Fundamental Frequency :	848.8 MHz	Temp. / Humi. :	24 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	ERP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
1697.60	H	Peak	-64.10	-67.07	7.28	-4.31	-13.00	-51.10

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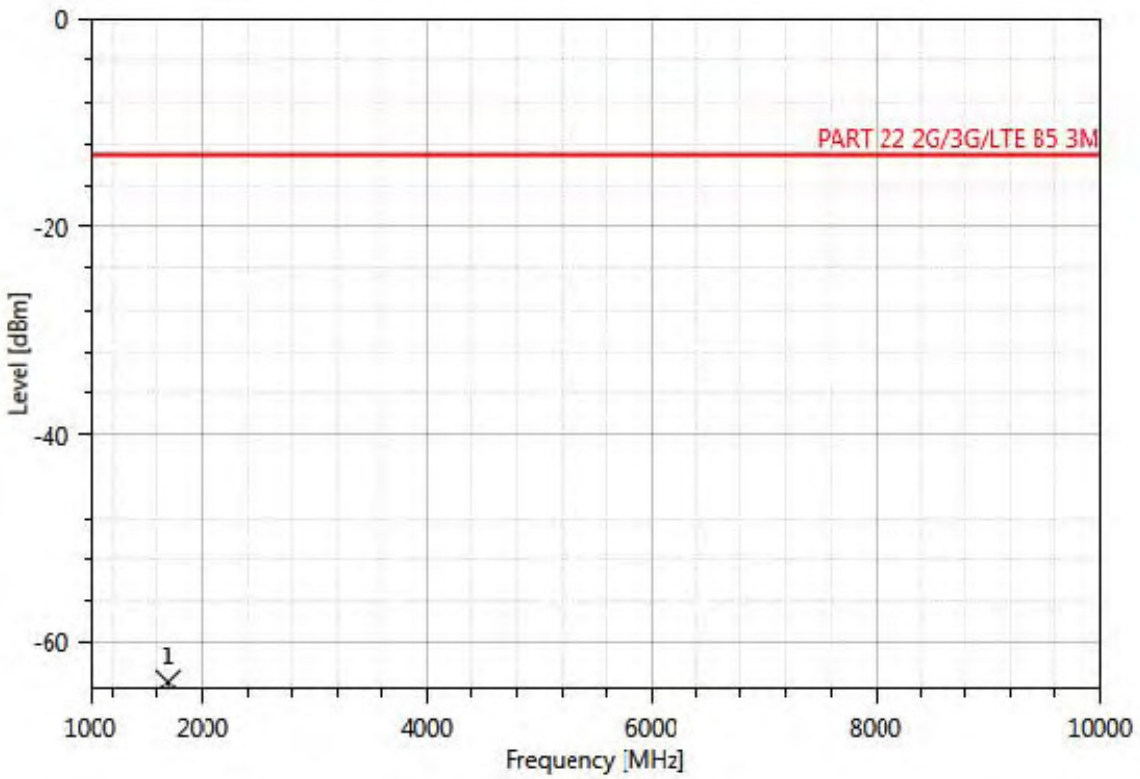
Operation Mode :	GSM 850	Test Date :	01/11/2017
Fundamental Frequency :	848.8 MHz	Temp. / Humi. :	24 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	ERP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
1697.60	H	Peak	-63.71	-66.68	7.28	-4.31	-13.00	-50.71

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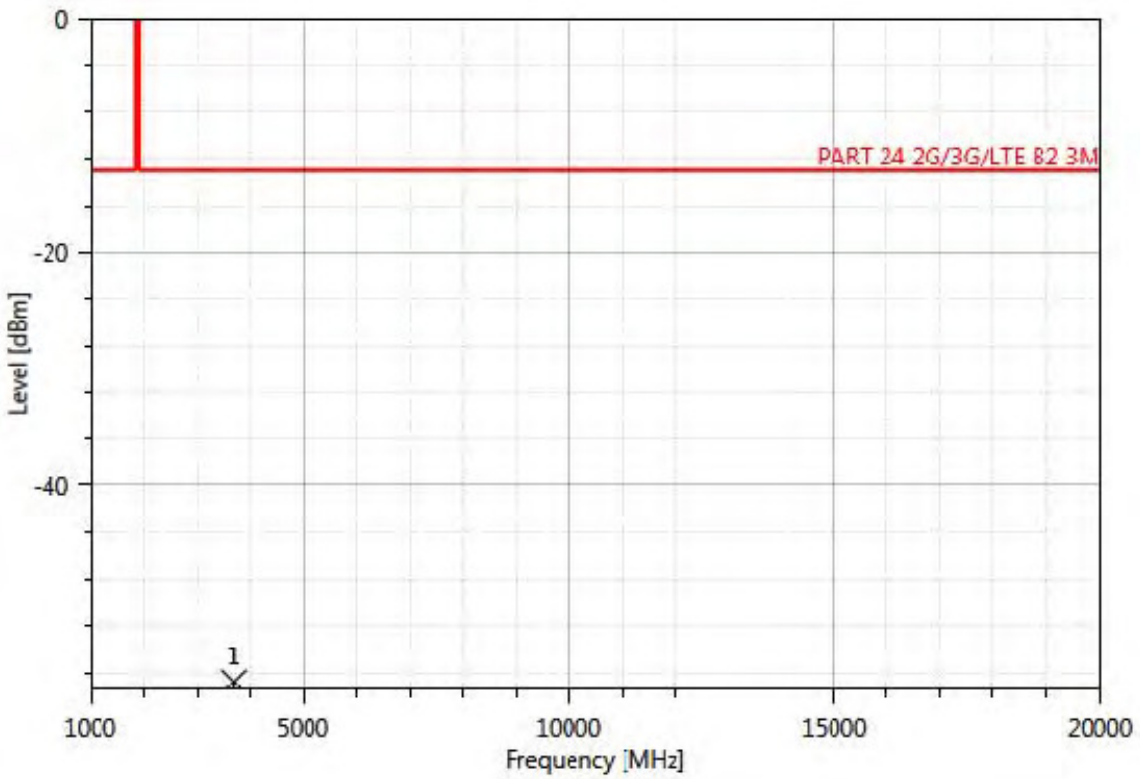
Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode :	GPRS 1900	Test Date :	01/11/2017
Fundamental Frequency :	1850.2 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3700.40	H	Peak	-56.79	-62.65	12.44	-6.58	-13.00	-43.79

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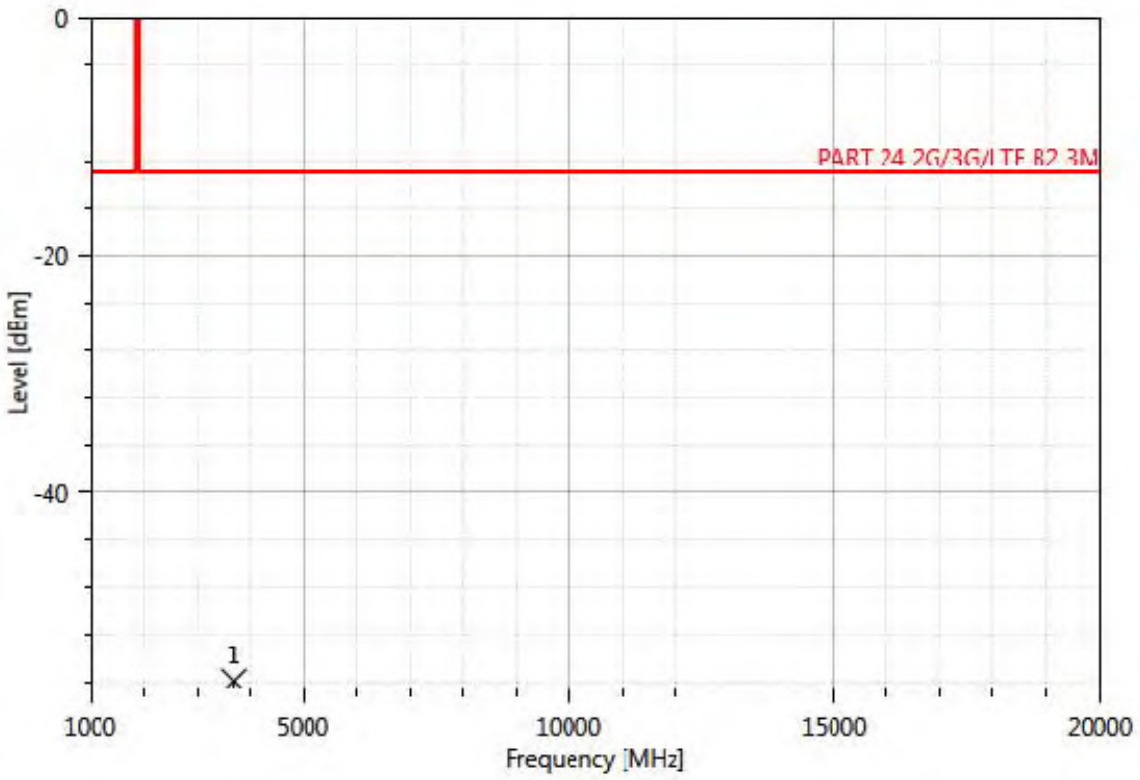
Operation Mode :	GPRS 1900	Test Date :	01/11/2017
Fundamental Frequency :	1850.2 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3700.40	H	Peak	-55.88	-61.74	12.44	-6.58	-13.00	-42.88

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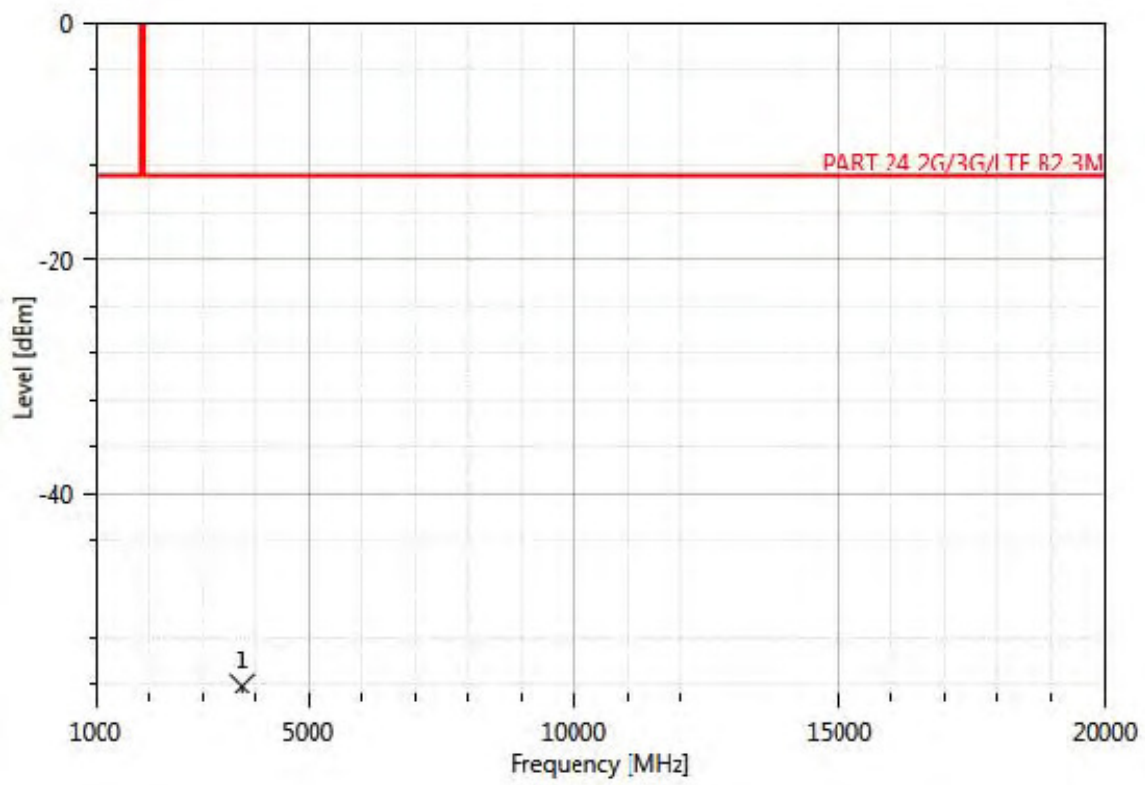
Operation Mode :	GPRS 1900	Test Date :	01/11/2017
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	Peak	-56.19	-62.04	12.45	-6.60	-13.00	-43.19

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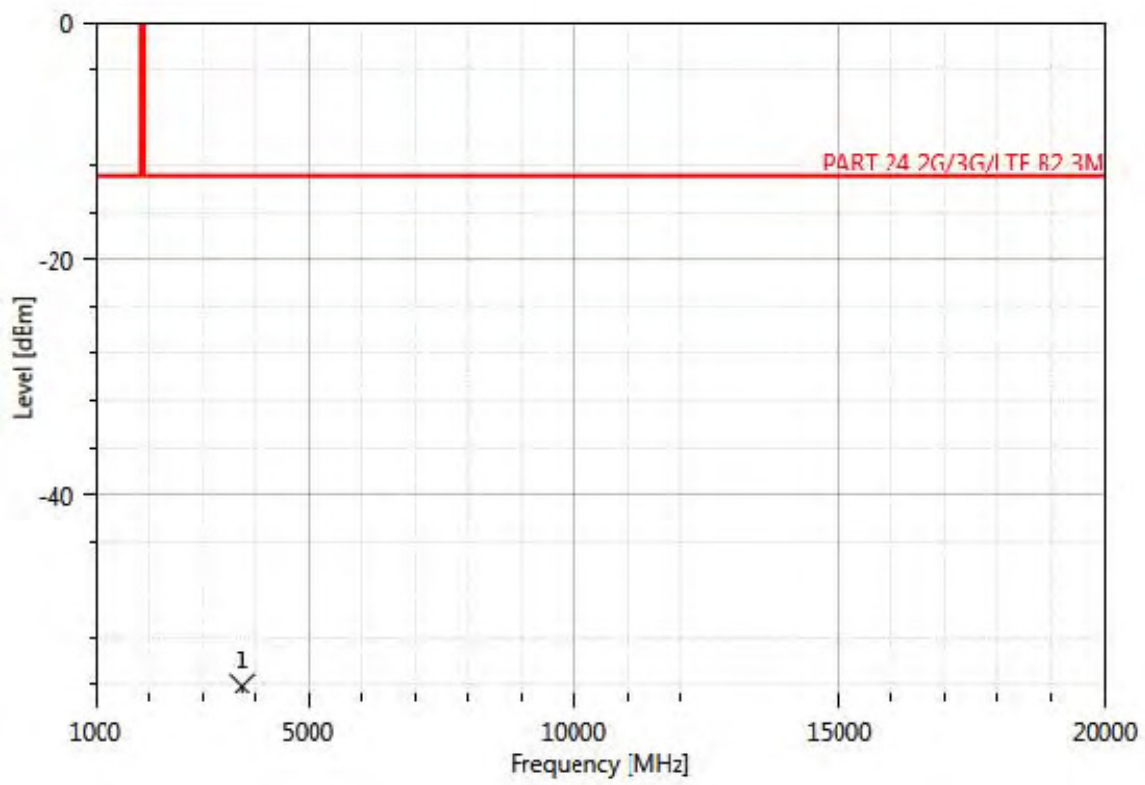
Operation Mode :	GPRS 1900	Test Date :	01/11/2017
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	Peak	-56.13	-61.98	12.45	-6.60	-13.00	-43.13

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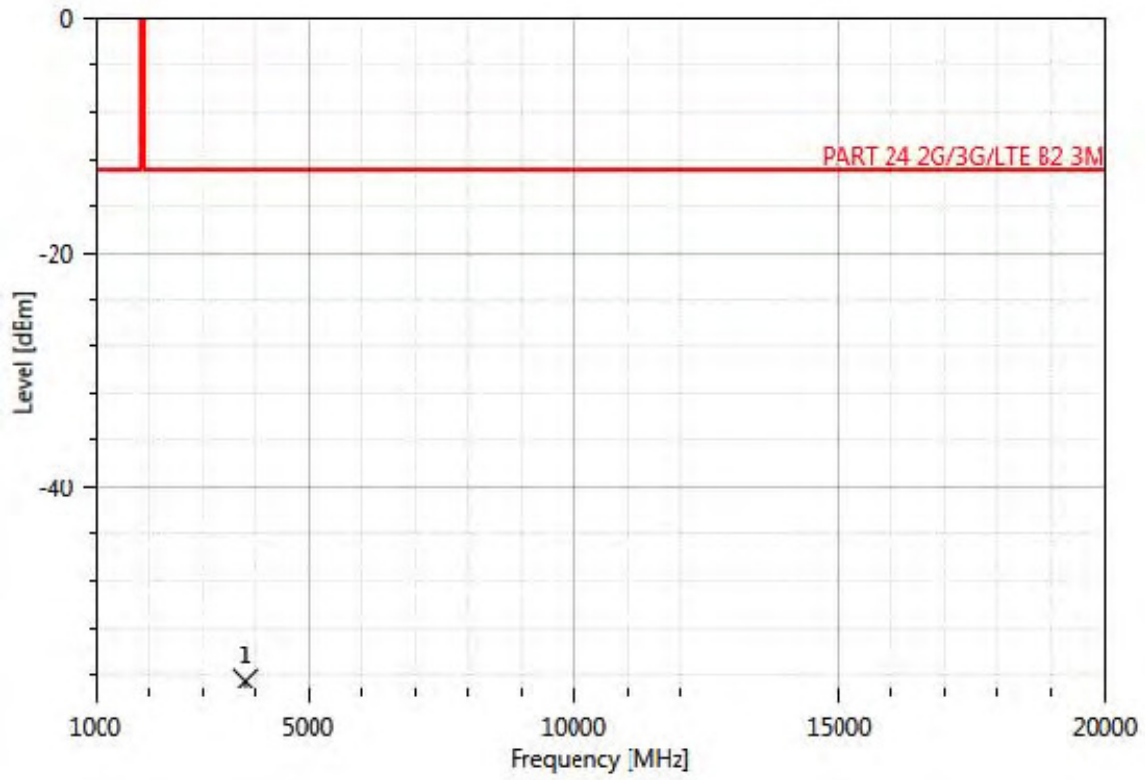
Operation Mode :	GPRS 1900	Test Date :	01/11/2017
Fundamental Frequency :	1909.8 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3819.60	H	Peak	-56.52	-62.33	12.47	-6.65	-13.00	-43.52

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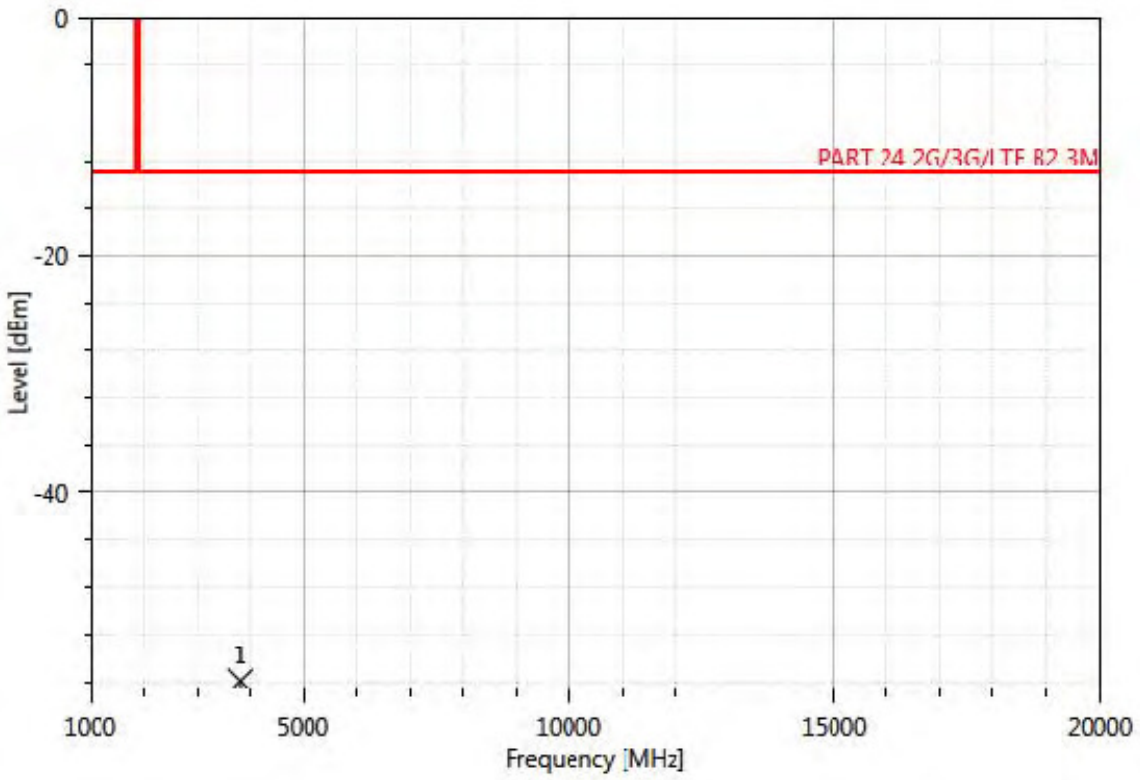
Operation Mode :	GPRS 1900	Test Date :	01/11/2017
Fundamental Frequency :	1909.8 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3819.60	H	Peak	-55.84	-61.66	12.47	-6.65	-13.00	-42.84

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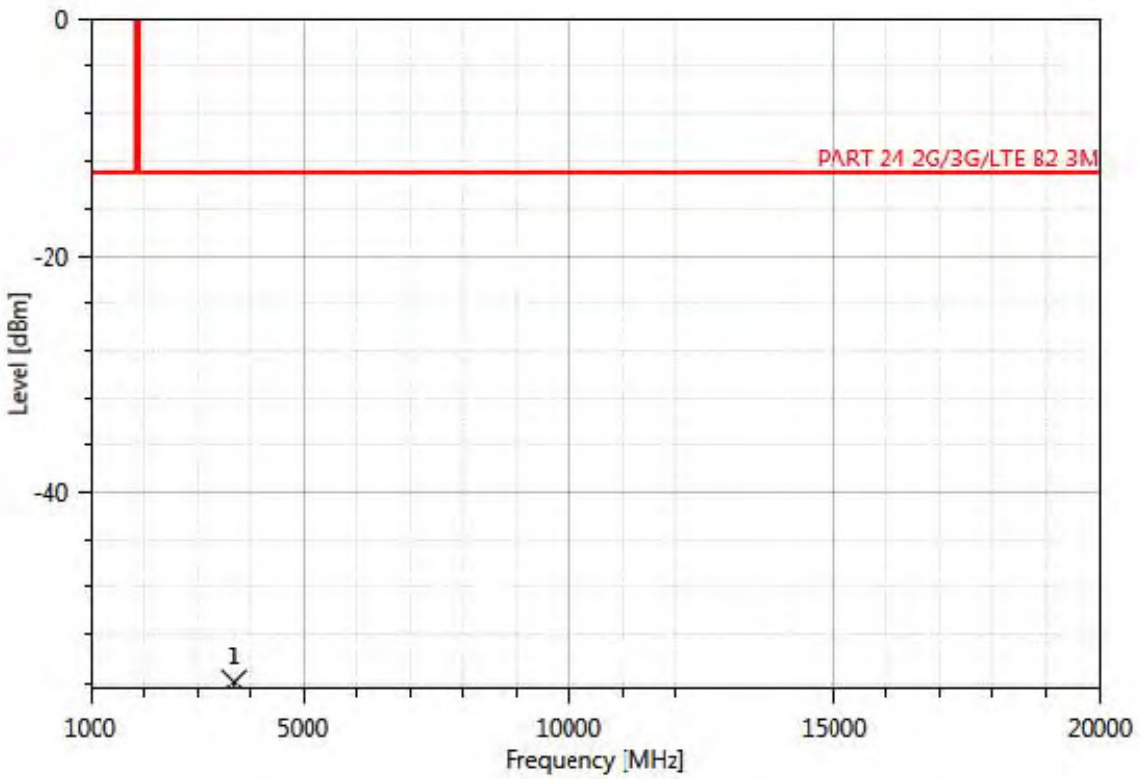
Radiated Spurious Emission Measurement Result: HSDPA Band 2 Mode

Operation Mode :	HSDPA B2	Test Date :	01/11/2017
Fundamental Frequency :	1852.4 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3704.80	H	Peak	-55.93	-61.79	12.44	-6.58	-13.00	-42.93

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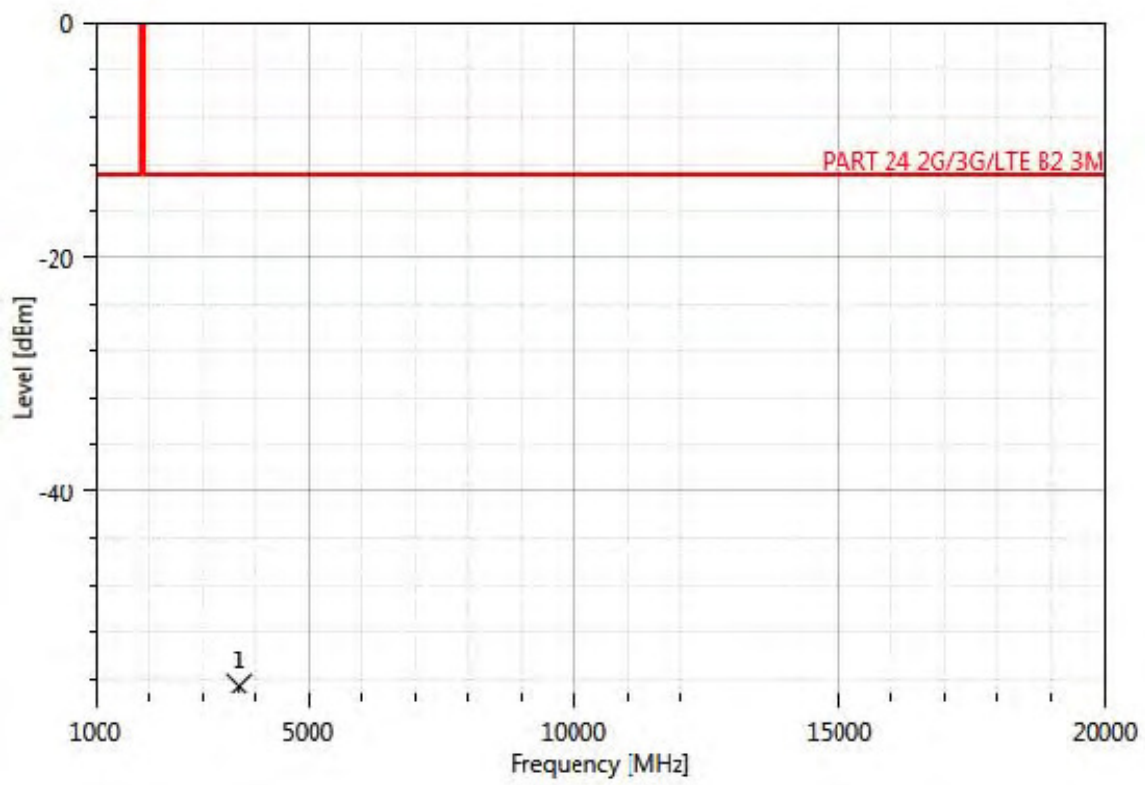
Operation Mode :	HSDPA B2	Test Date :	01/11/2017
Fundamental Frequency :	1852.4 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3704.80	H	Peak	-56.58	-62.44	12.44	-6.58	-13.00	-43.58

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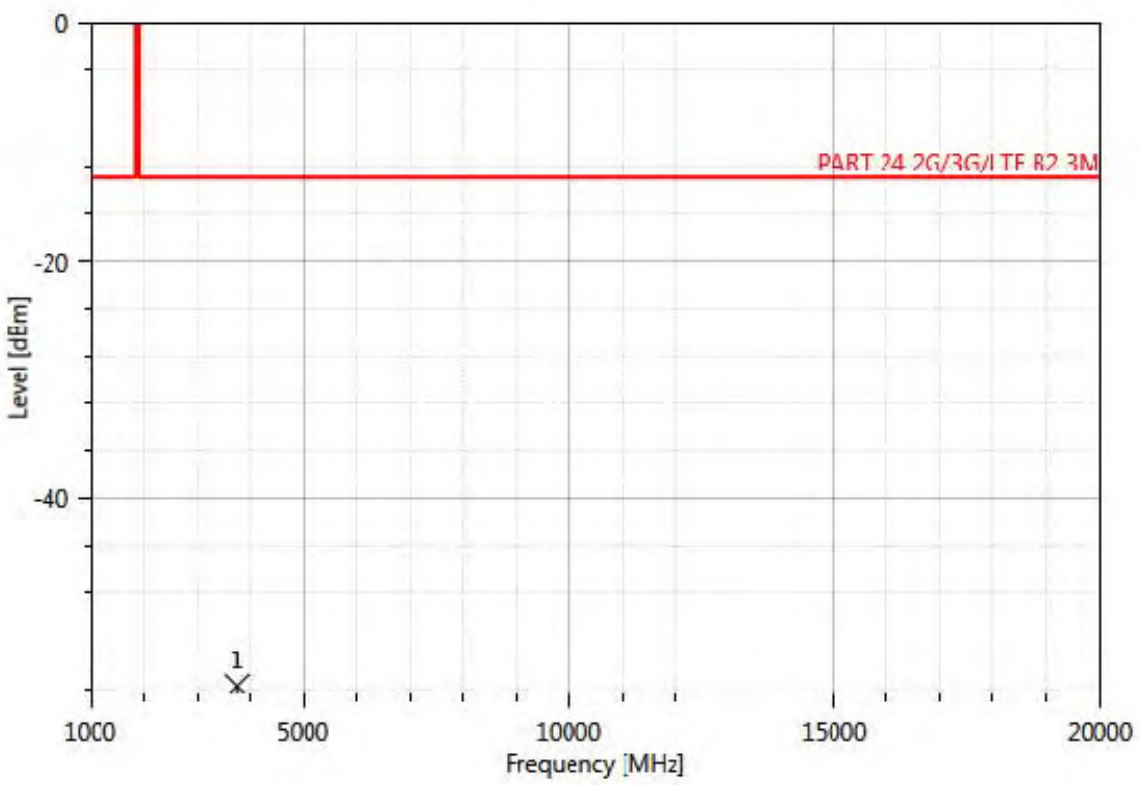
Operation Mode :	HSDPA B2	Test Date :	01/11/2017
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	Peak	-55.71	-61.56	12.45	-6.60	-13.00	-42.71

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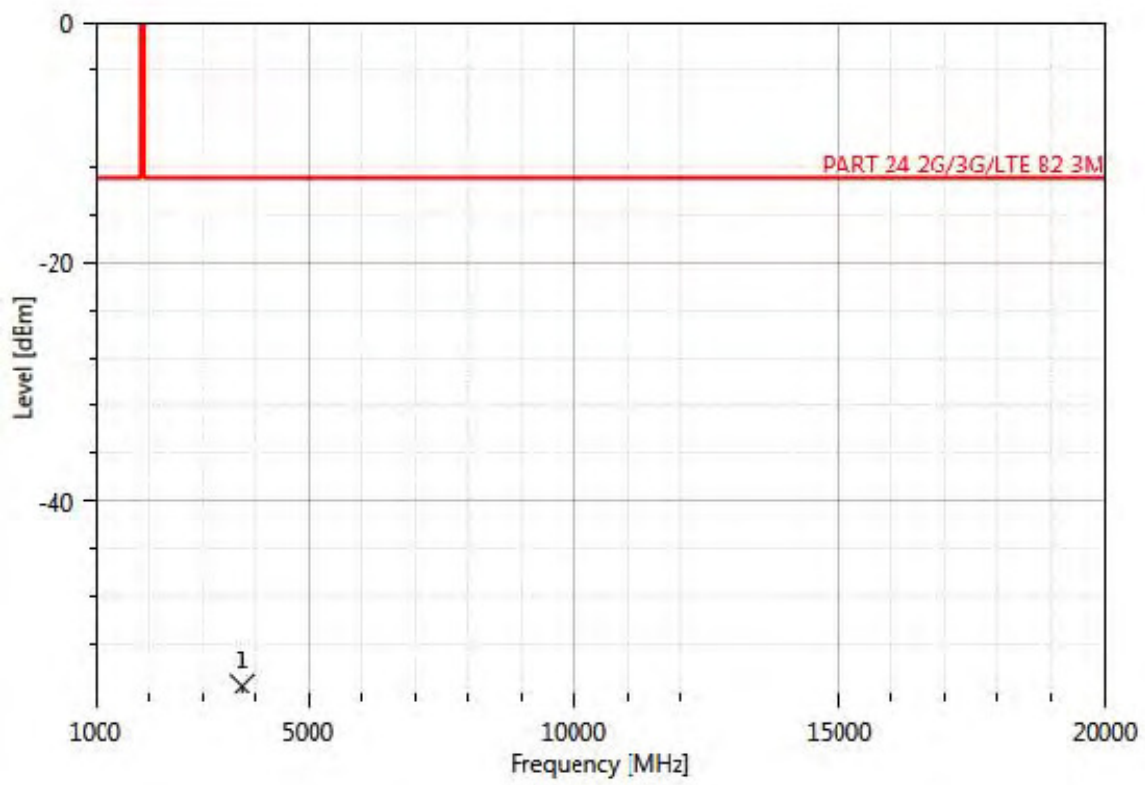
Operation Mode :	HSDPA B2	Test Date :	01/11/2017
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	Peak	-55.40	-61.26	12.45	-6.60	-13.00	-42.40

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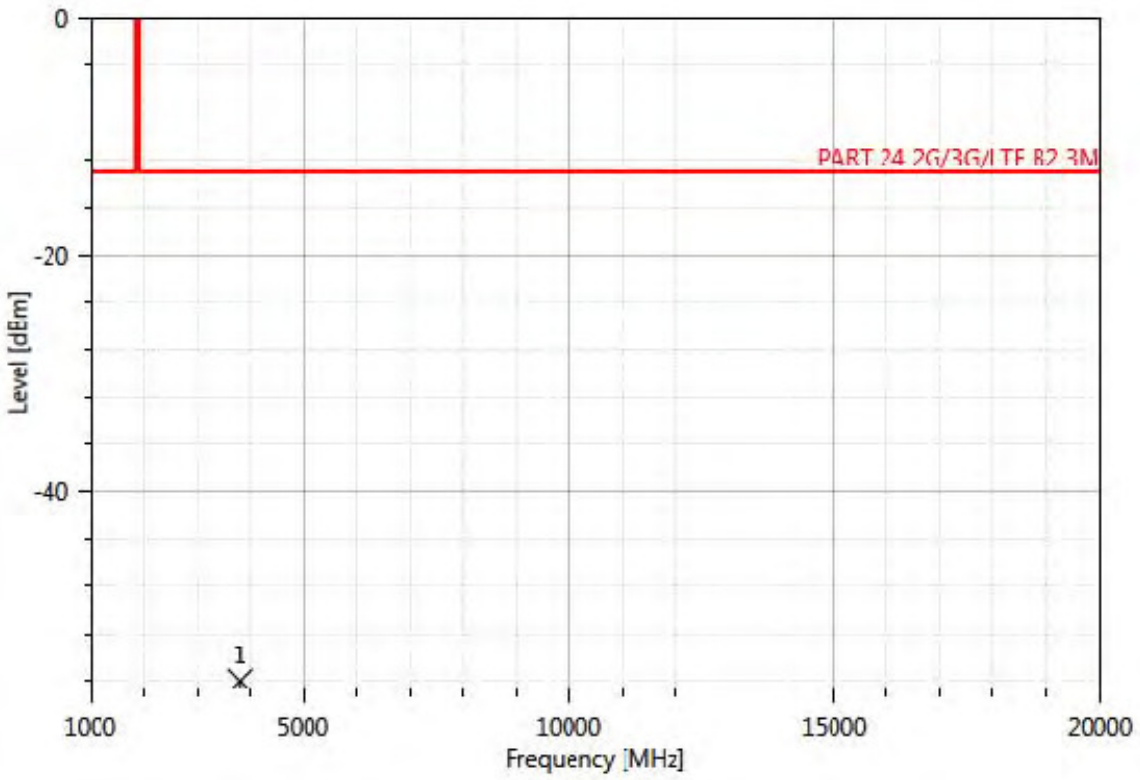
Operation Mode :	HSDPA B2	Test Date :	01/11/2017
Fundamental Frequency :	1907.6 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3815.20	H	Peak	-55.95	-61.78	12.46	-6.63	-13.00	-42.95

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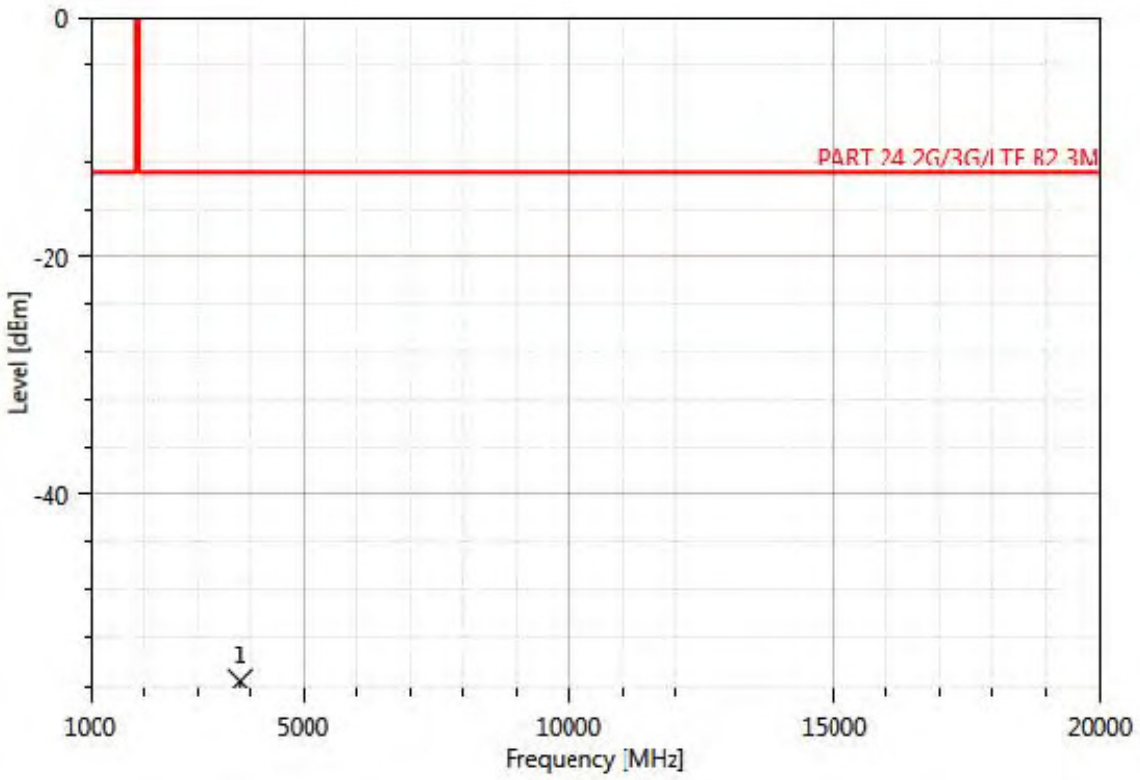
Operation Mode :	HSDPA B2	Test Date :	01/11/2017
Fundamental Frequency :	1907.6 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3815.20	H	Peak	-55.61	-61.44	12.46	-6.63	-13.00	-42.61

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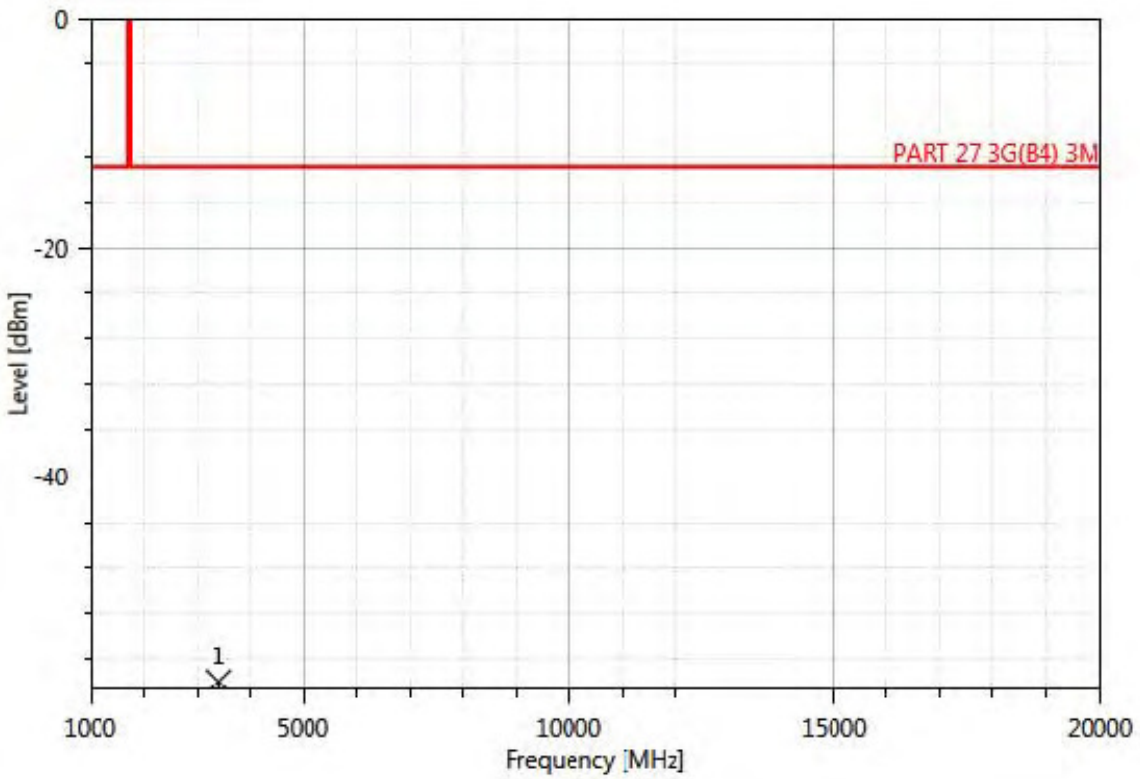
Radiated Spurious Emission Measurement Result: HSUPA Band 4 Mode

Operation Mode :	HSUPA B4	Test Date :	01/11/2017
Fundamental Frequency :	1712.4 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3424.80	H	Peak	-57.95	-63.99	12.27	-6.23	-13.00	-44.95

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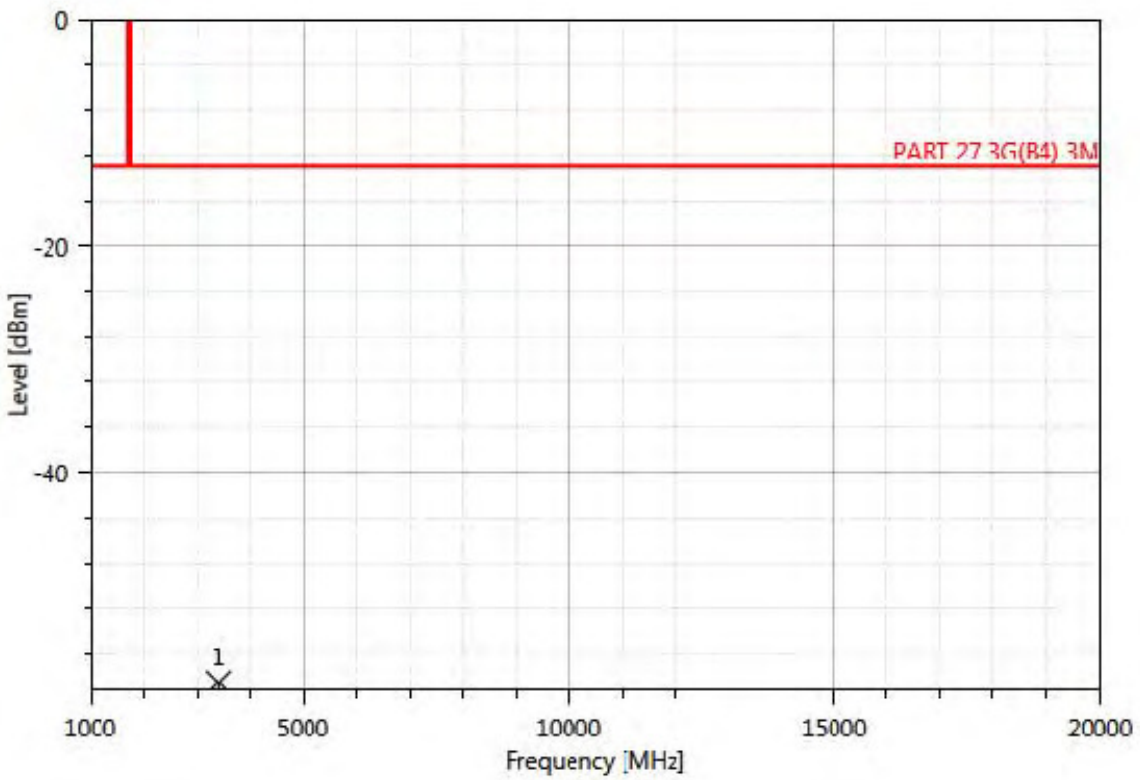
Operation Mode :	HSUPA B4	Test Date :	01/11/2017
Fundamental Frequency :	1712.4 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3424.80	H	Peak	-58.57	-64.61	12.27	-6.23	-13.00	-45.57

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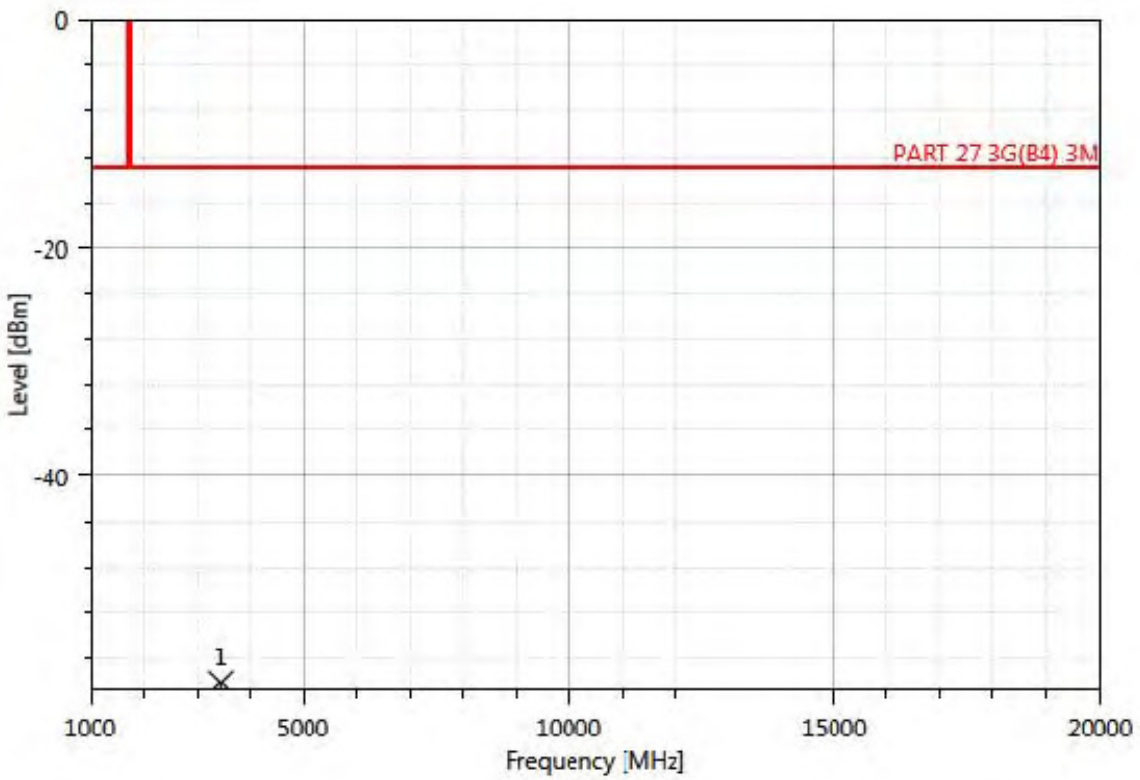
Operation Mode :	HSUPA B4	Test Date :	01/11/2017
Fundamental Frequency :	1732.6 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3465.20	H	Peak	-58.10	-64.19	12.34	-6.25	-13.00	-45.10

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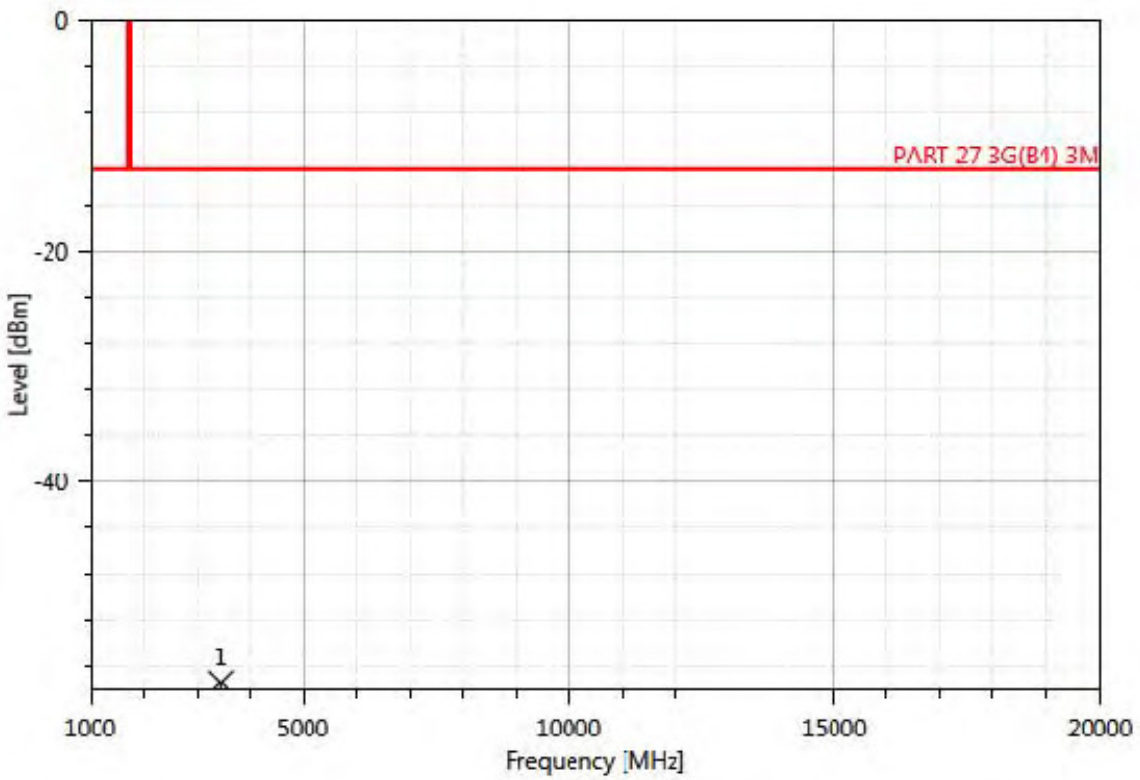
Operation Mode :	HSUPA B4	Test Date :	01/11/2017
Fundamental Frequency :	1732.6 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3465.20	H	Peak	-57.50	-63.60	12.34	-6.25	-13.00	-44.50

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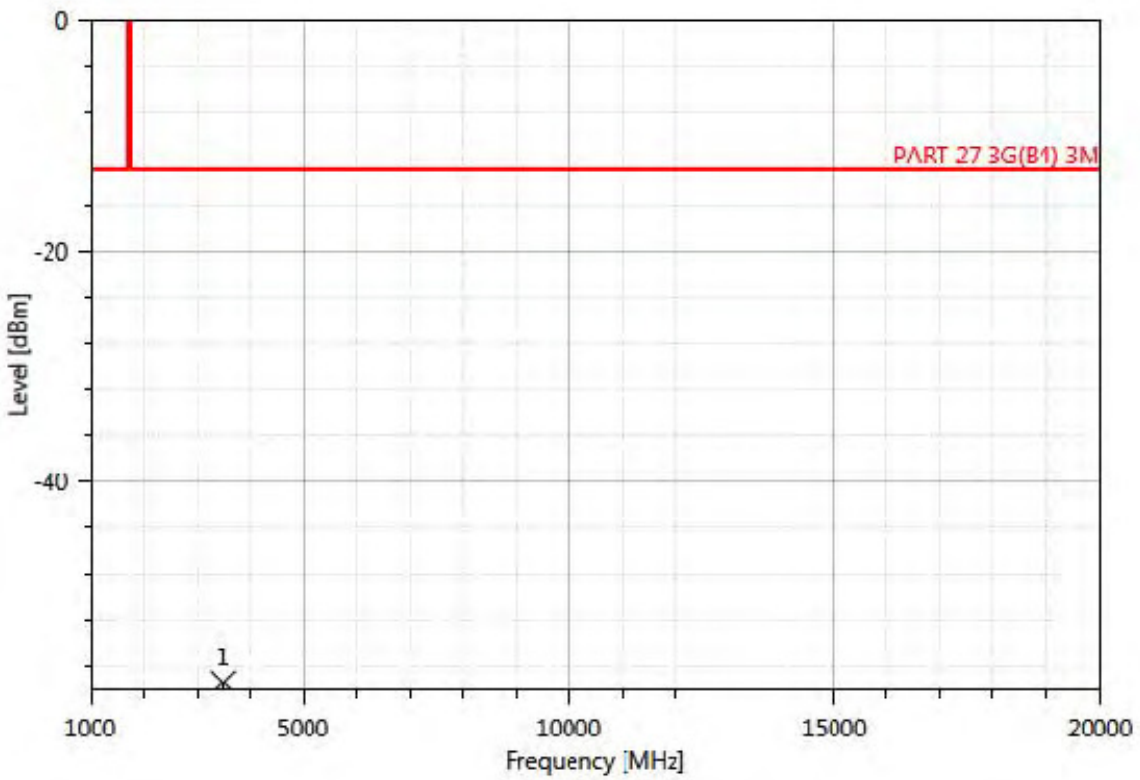
Operation Mode :	HSUPA B4	Test Date :	01/11/2017
Fundamental Frequency :	1752.6 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3505.20	H	Peak	-57.48	-63.41	12.40	-6.47	-13.00	-44.48

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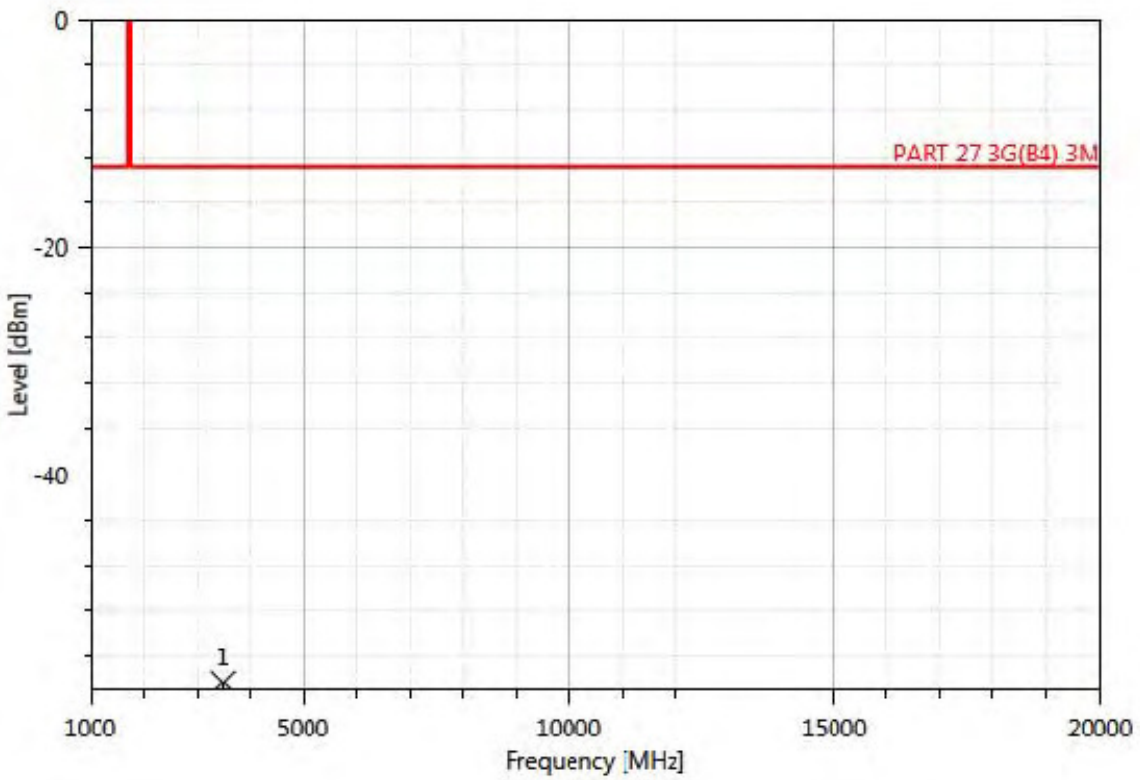
Operation Mode :	HSUPA B4	Test Date :	01/11/2017
Fundamental Frequency :	1752.6 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3505.20	H	Peak	-58.33	-64.26	12.40	-6.47	-13.00	-45.33

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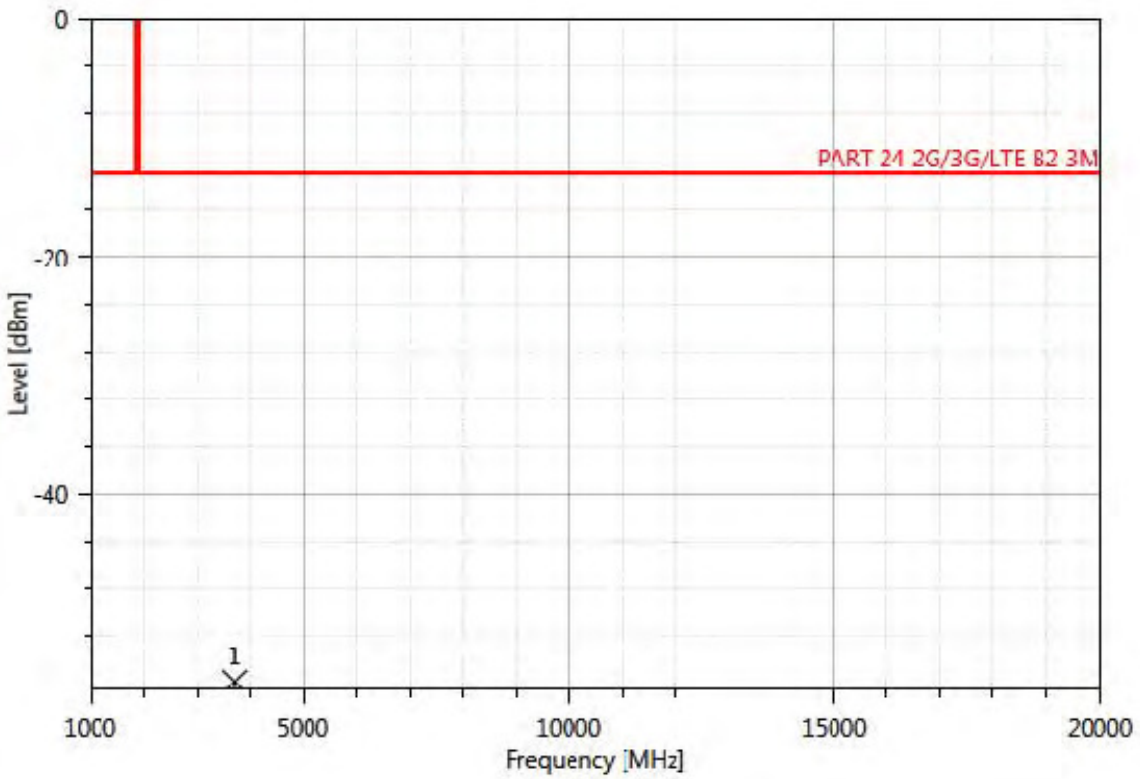
Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Mode :	LTE B2	Test Date :	01/10/2017
Fundamental Frequency :	1857.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3715.00	H	Peak	-55.73	-61.60	12.44	-6.58	-13.00	-42.73

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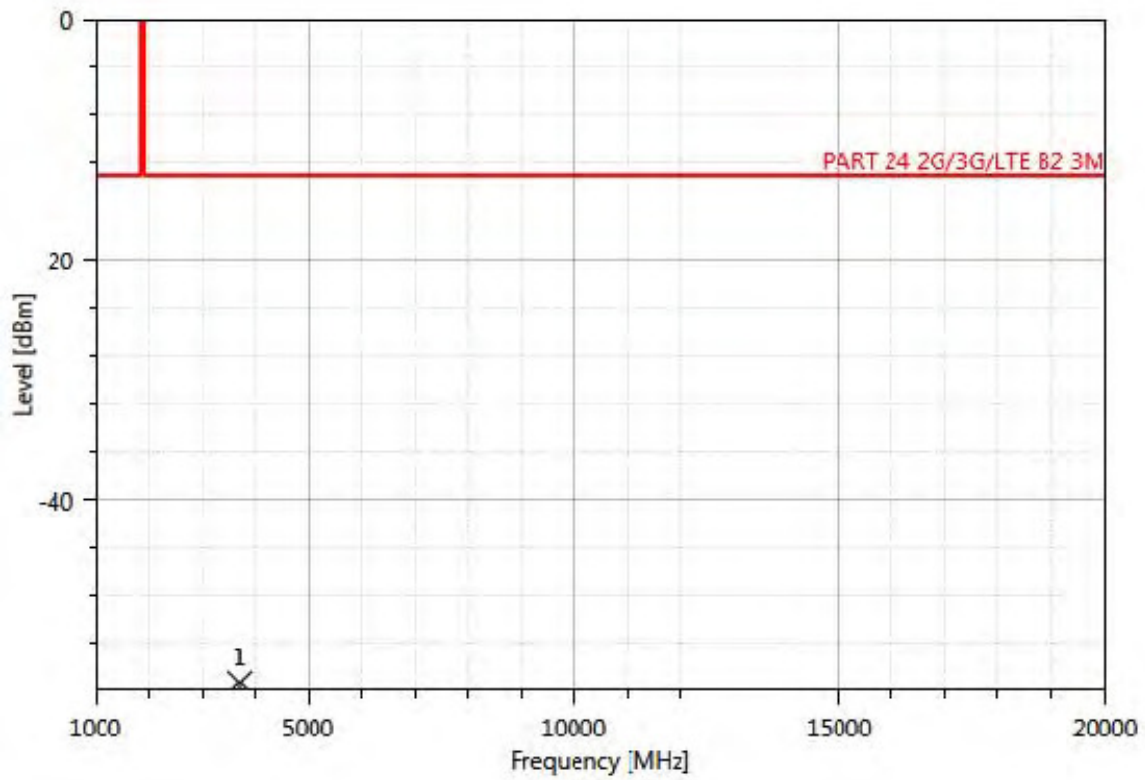
Operation Mode :	LTE B2	Test Date :	01/10/2017
Fundamental Frequency :	1857.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3715.00	H	Peak	-55.20	-61.06	12.44	-6.58	-13.00	-42.20

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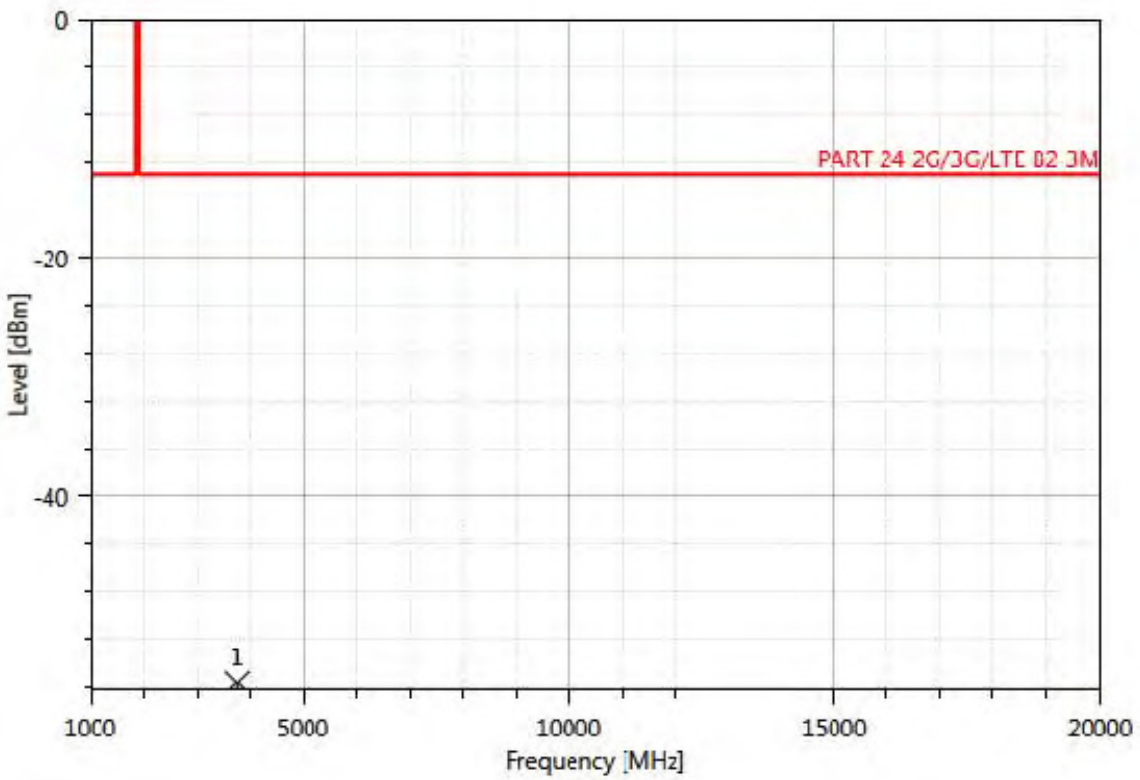
Operation Mode :	LTE B2	Test Date :	01/10/2017
Fundamental Frequency :	1880.0 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	Peak	-55.60	-61.46	12.45	-6.60	-13.00	-42.60

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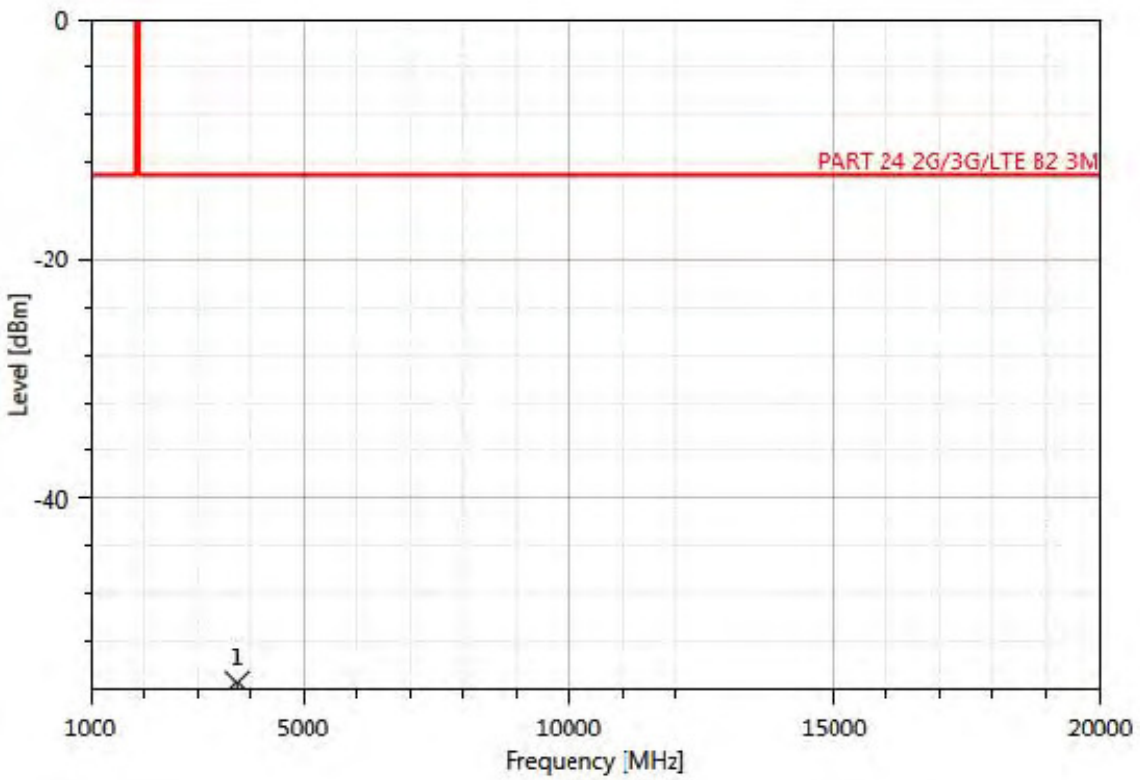
Operation Mode :	LTE B2	Test Date :	01/10/2017
Fundamental Frequency :	1880.0 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	Peak	-55.38	-61.24	12.45	-6.60	-13.00	-42.38

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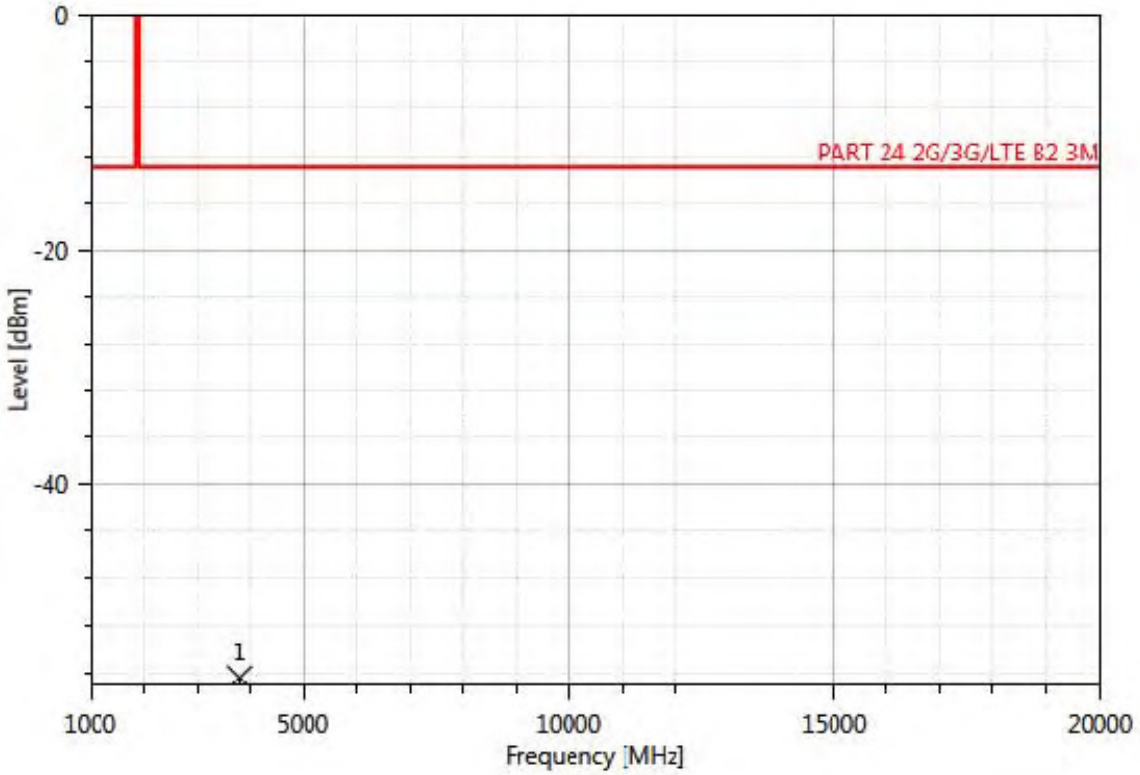
Operation Mode :	LTE B2	Test Date :	01/10/2017
Fundamental Frequency :	1902.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3805.00	H	Peak	-56.42	-62.27	12.46	-6.62	-13.00	-43.42

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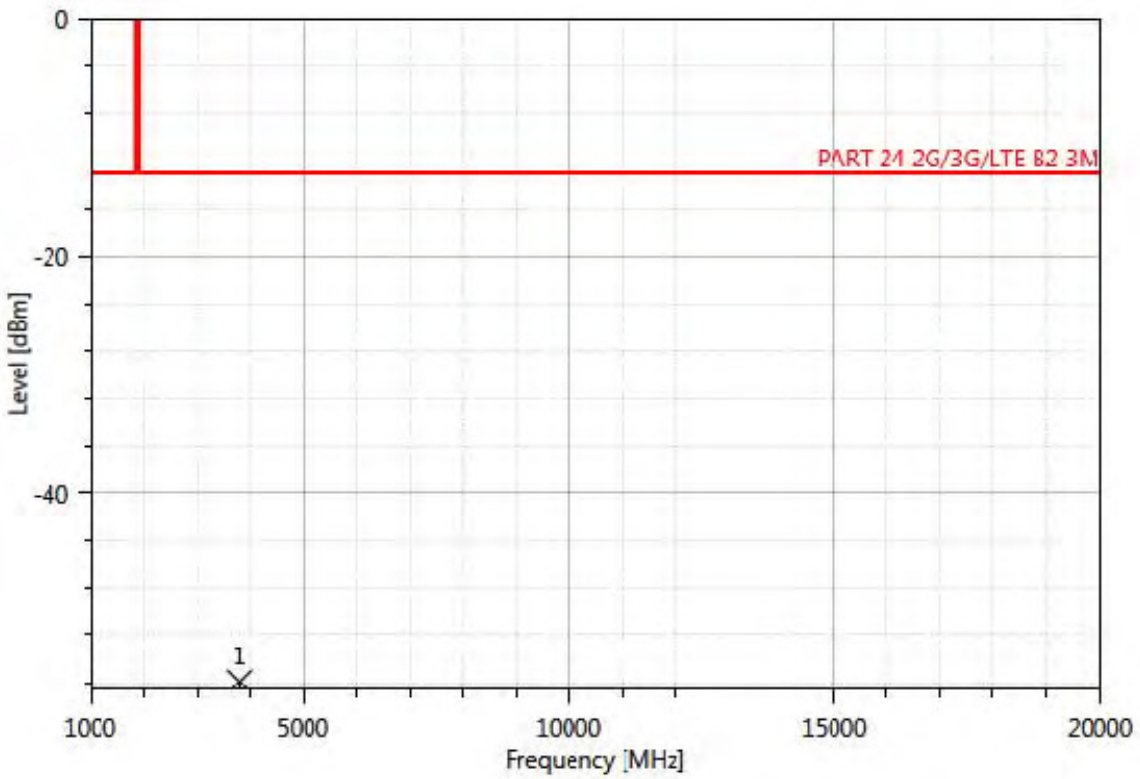
Operation Mode :	LTE B2	Test Date :	01/10/2017
Fundamental Frequency :	1902.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3805.00	H	Peak	-55.85	-61.69	12.46	-6.62	-13.00	-42.85

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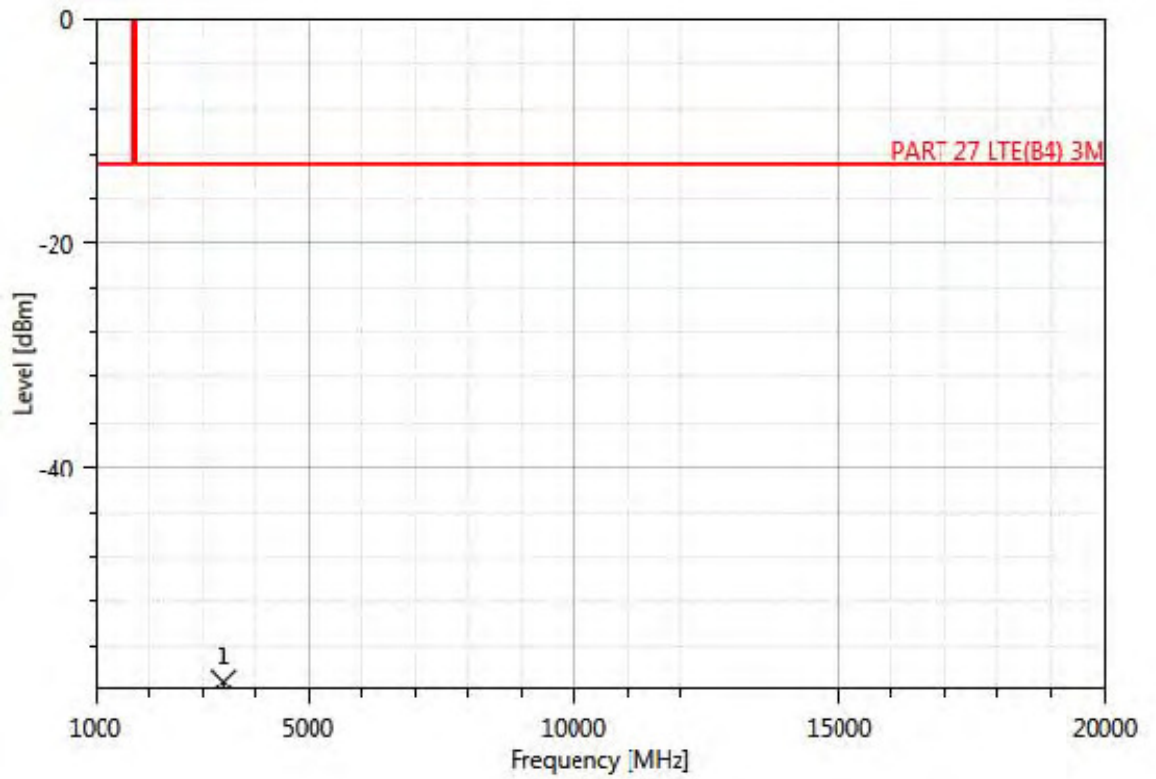
Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Operation Mode :	LTE B4	Test Date :	01/10/2017
Fundamental Frequency :	1711.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3423.00	H	Peak	-59.12	-65.15	12.27	-6.23	-13.00	-46.12

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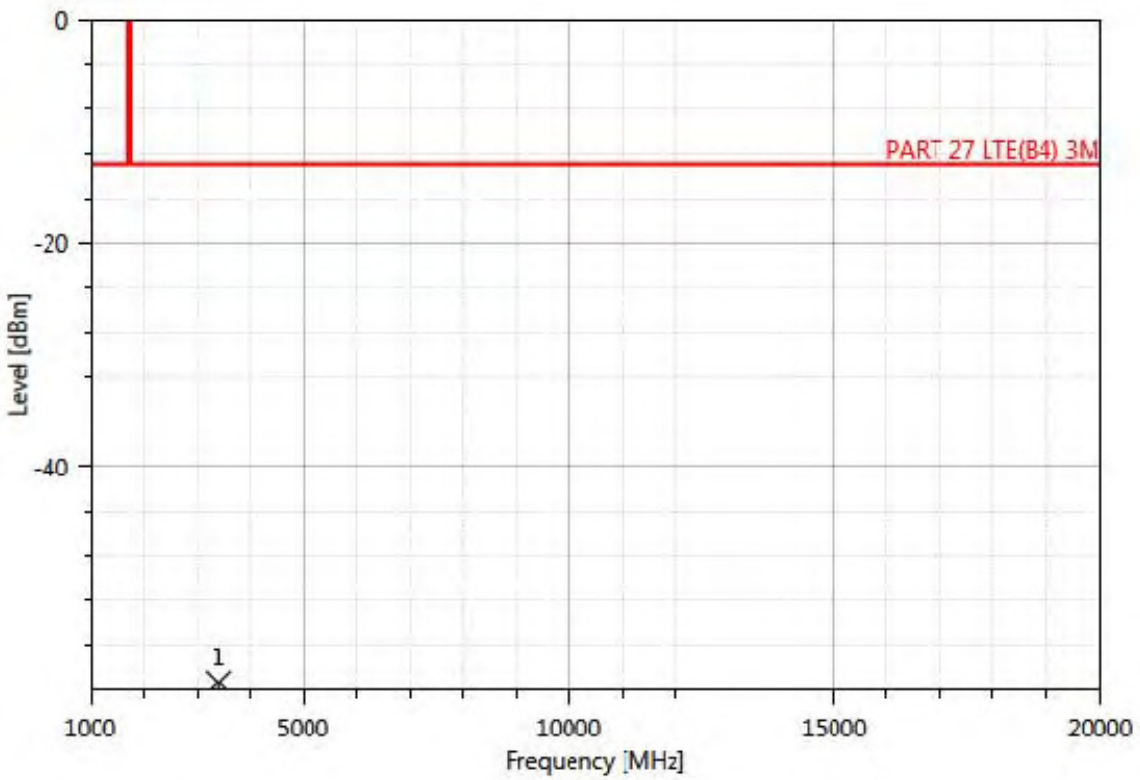
Operation Mode :	LTE B4	Test Date :	01/10/2017
Fundamental Frequency :	1711.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3423.00	H	Peak	-59.34	-65.38	12.27	-6.23	-13.00	-46.34

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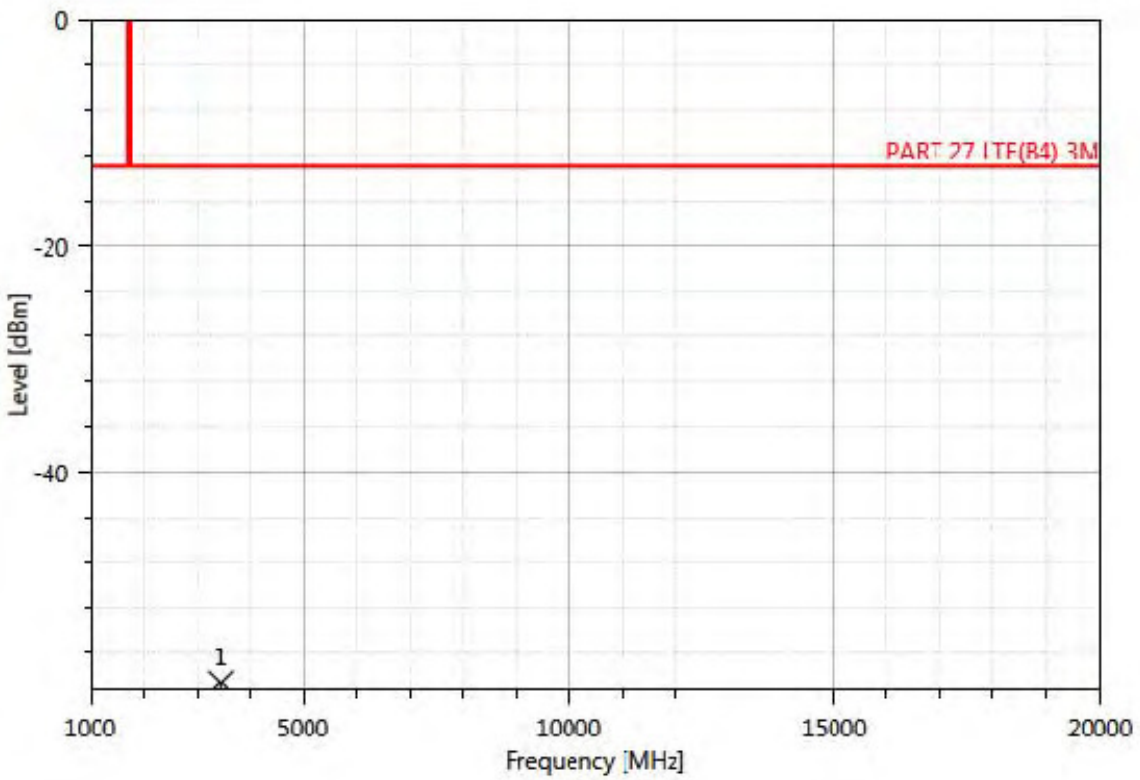
Operation Mode :	LTE B4	Test Date :	01/10/2017
Fundamental Frequency :	1732.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3465.00	H	Peak	-58.61	-64.70	12.34	-6.25	-13.00	-45.61

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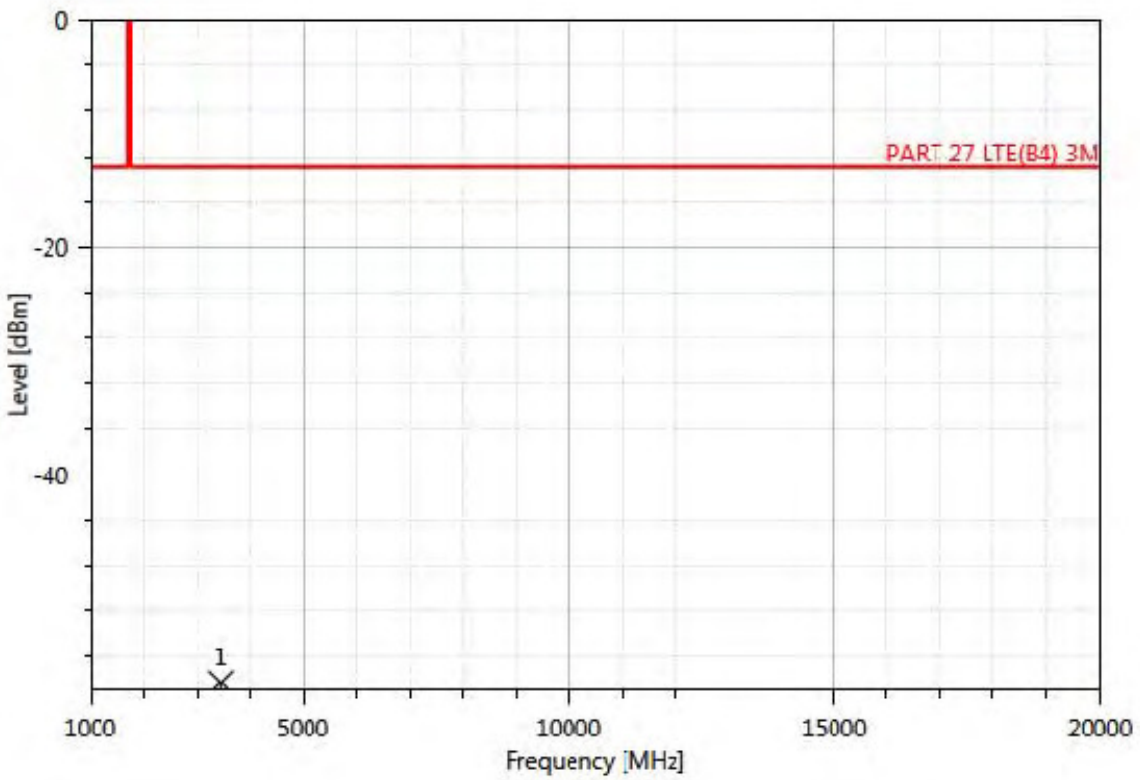
Operation Mode :	LTE B4	Test Date :	01/10/2017
Fundamental Frequency :	1732.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3465.00	H	Peak	-58.32	-64.41	12.34	-6.25	-13.00	-45.32

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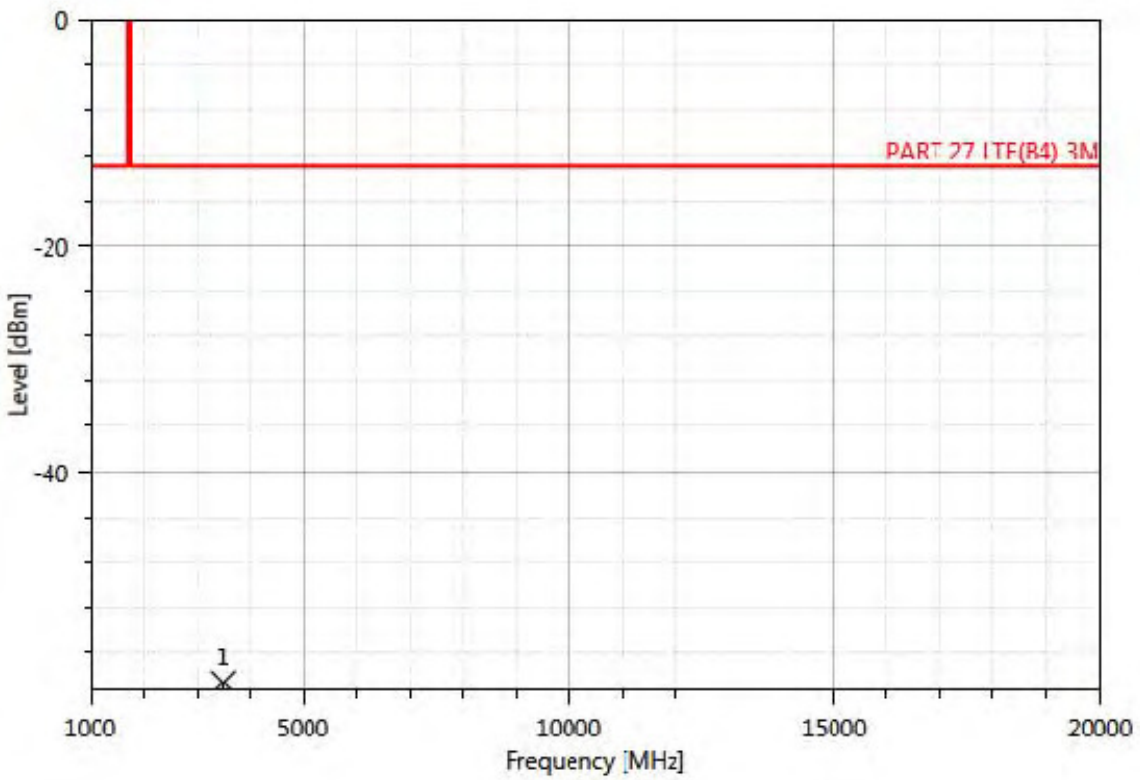
Operation Mode :	LTE B4	Test Date :	01/10/2017
Fundamental Frequency :	1753.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3507.00	H	Peak	-58.65	-64.57	12.40	-6.48	-13.00	-45.65

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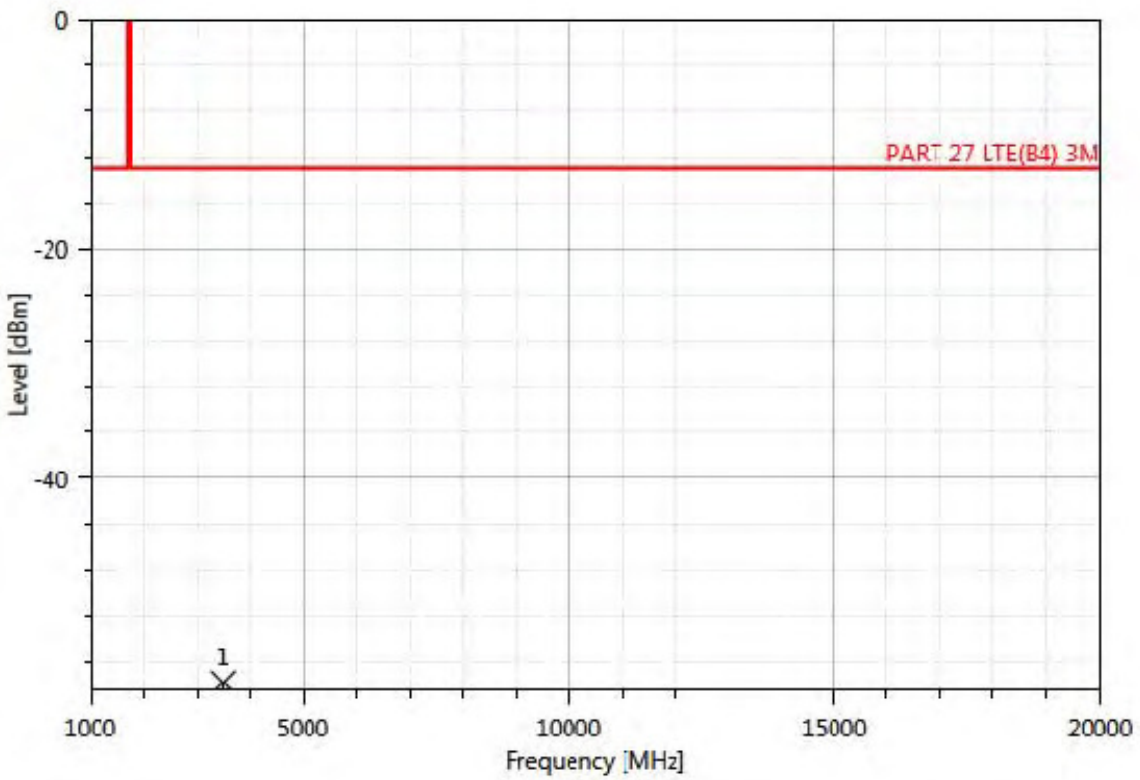
Operation Mode :	LTE B4	Test Date :	01/10/2017
Fundamental Frequency :	1753.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
3507.00	H	Peak	-57.80	-63.72	12.40	-6.48	-13.00	-44.80

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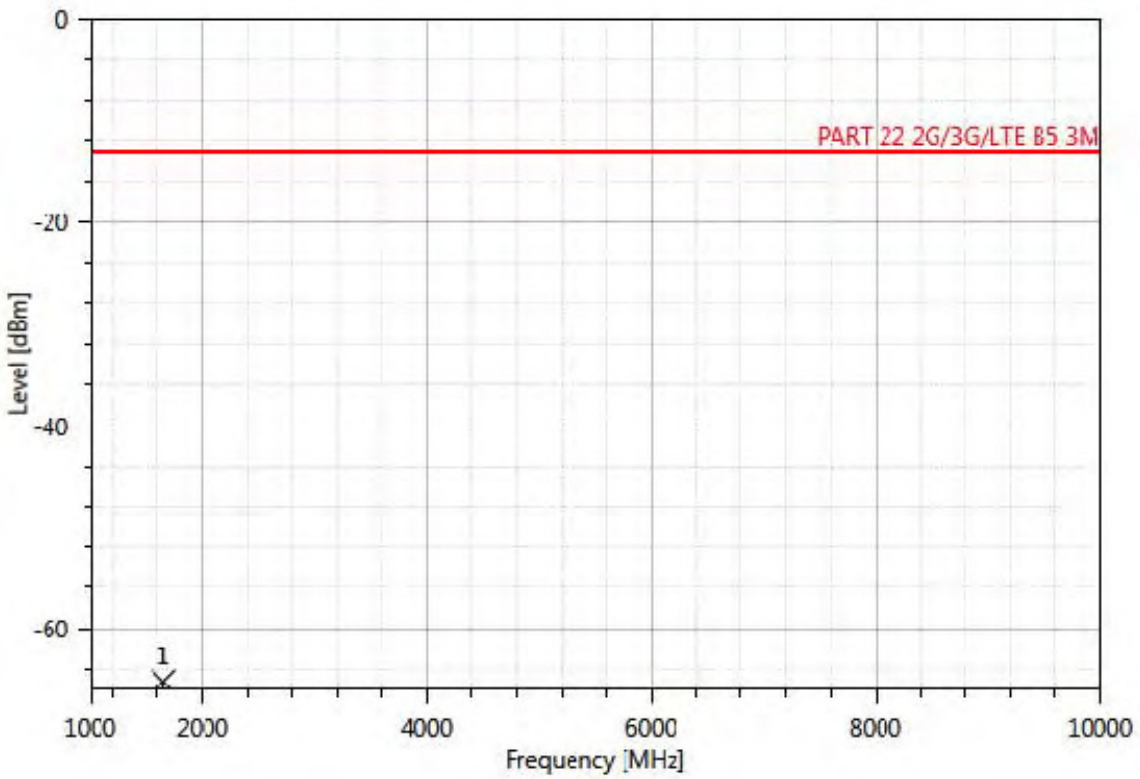
Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Mode :	LTE B5	Test Date :	01/10/2017
Fundamental Frequency :	826.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	ERP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
1653.00	H	Peak	-65.21	-68.09	7.12	-4.24	-13.00	-52.21

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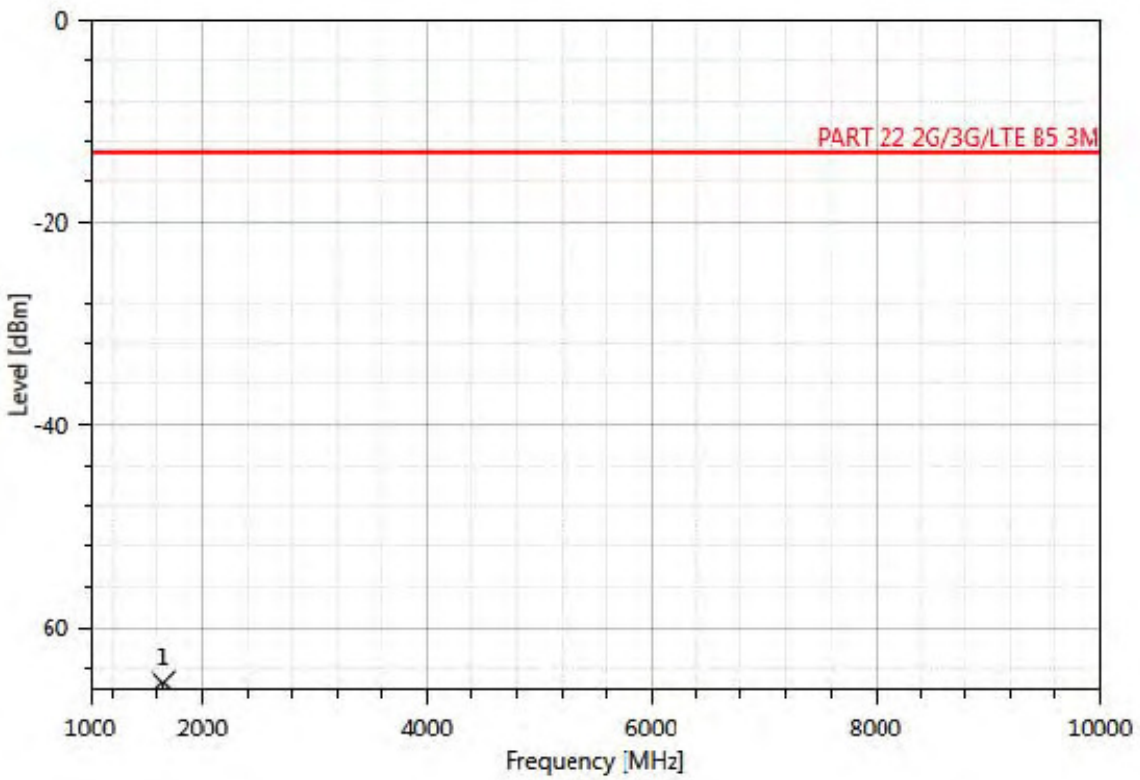
Operation Mode :	LTE B5	Test Date :	01/10/2017
Fundamental Frequency :	826.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	ERP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
1653.00	H	Peak	-65.43	-68.31	7.12	-4.24	-13.00	-52.43

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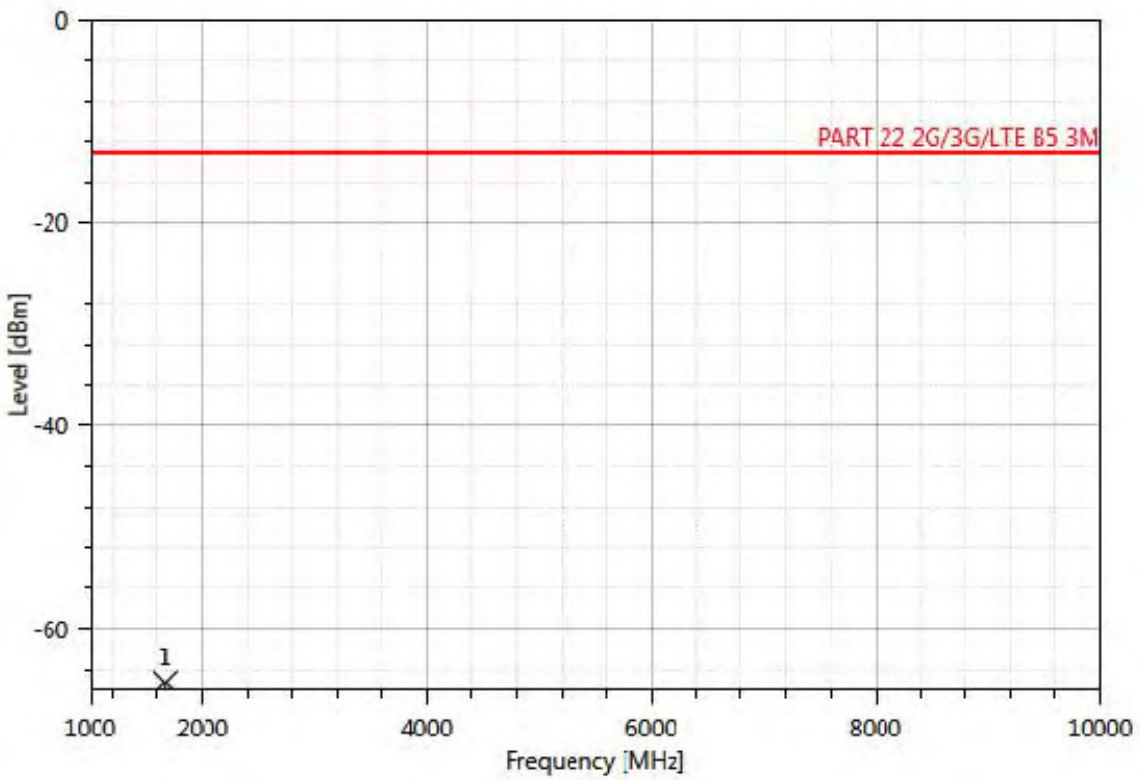
Operation Mode :	LTE B5	Test Date :	01/10/2017
Fundamental Frequency :	836.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	ERP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
1673.00	H	Peak	-65.32	-68.23	7.20	-4.29	-13.00	-52.32

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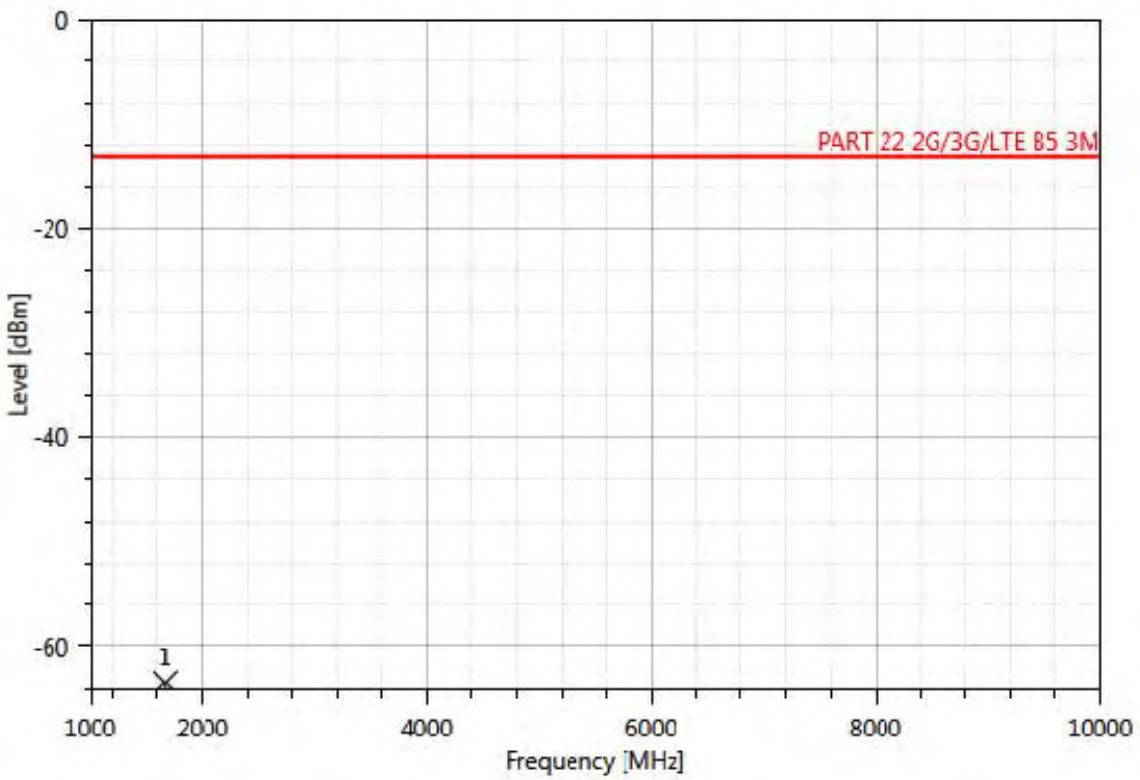
Operation Mode :	LTE B5	Test Date :	01/10/2017
Fundamental Frequency :	836.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	ERP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
1673.00	H	Peak	-63.45	-66.36	7.20	-4.29	-13.00	-50.45

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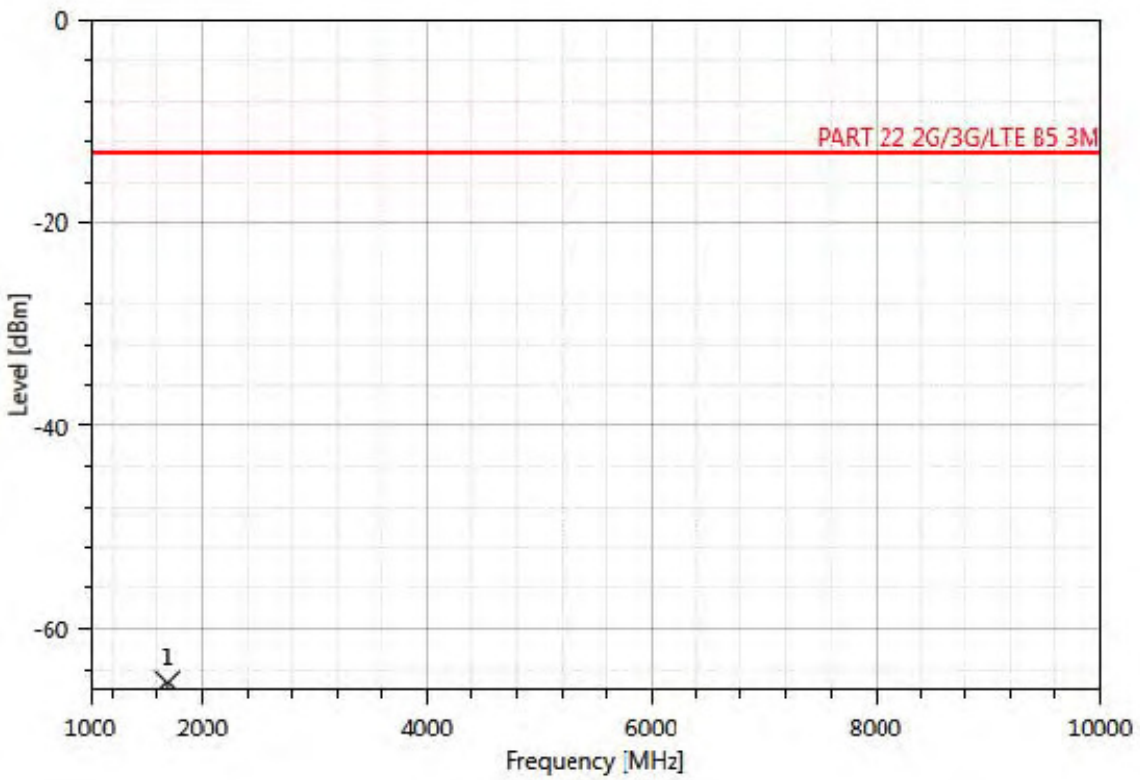
Operation Mode :	LTE B5	Test Date :	01/10/2017
Fundamental Frequency :	846.5MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	ERP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
1693.00	H	Peak	-65.29	-68.25	7.27	-4.30	-13.00	-52.29

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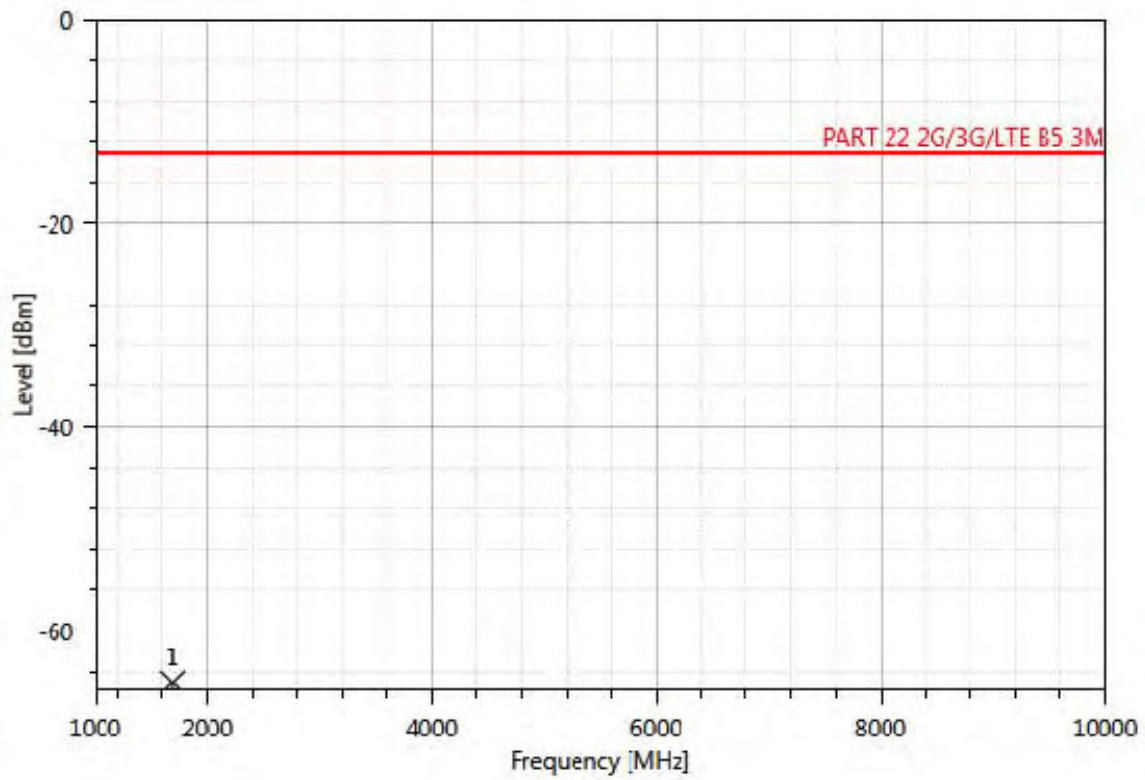
Operation Mode :	LTE B5	Test Date :	01/10/2017
Fundamental Frequency :	846.5MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	ERP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
1693.00	H	Peak	-65.09	-68.05	7.27	-4.30	-13.00	-52.09

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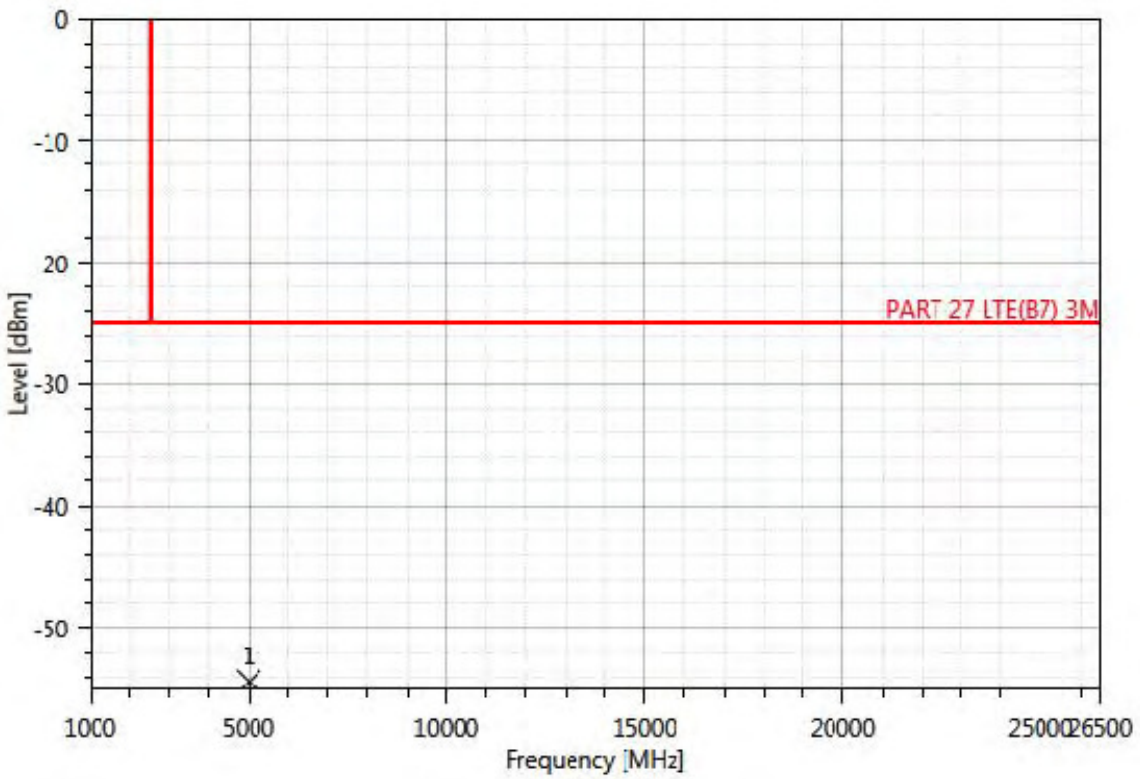
Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

Operation Mode :	LTE B7	Test Date :	01/10/2017
Fundamental Frequency :	2502.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
5005.00	H	Peak	-54.41	-59.30	12.70	-7.81	-25.00	-29.41

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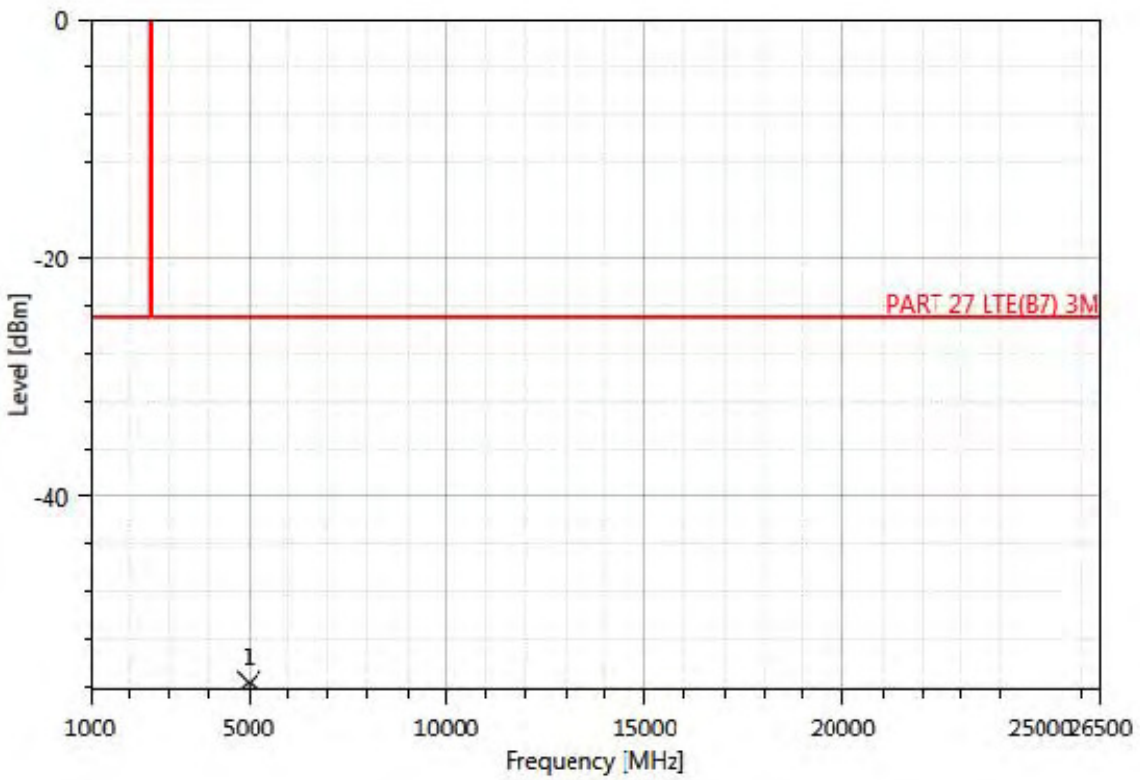
Operation Mode :	LTE B7	Test Date :	01/10/2017
Fundamental Frequency :	2502.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
5005.00	H	Peak	-55.60	-60.49	12.70	-7.81	-25.00	-30.60

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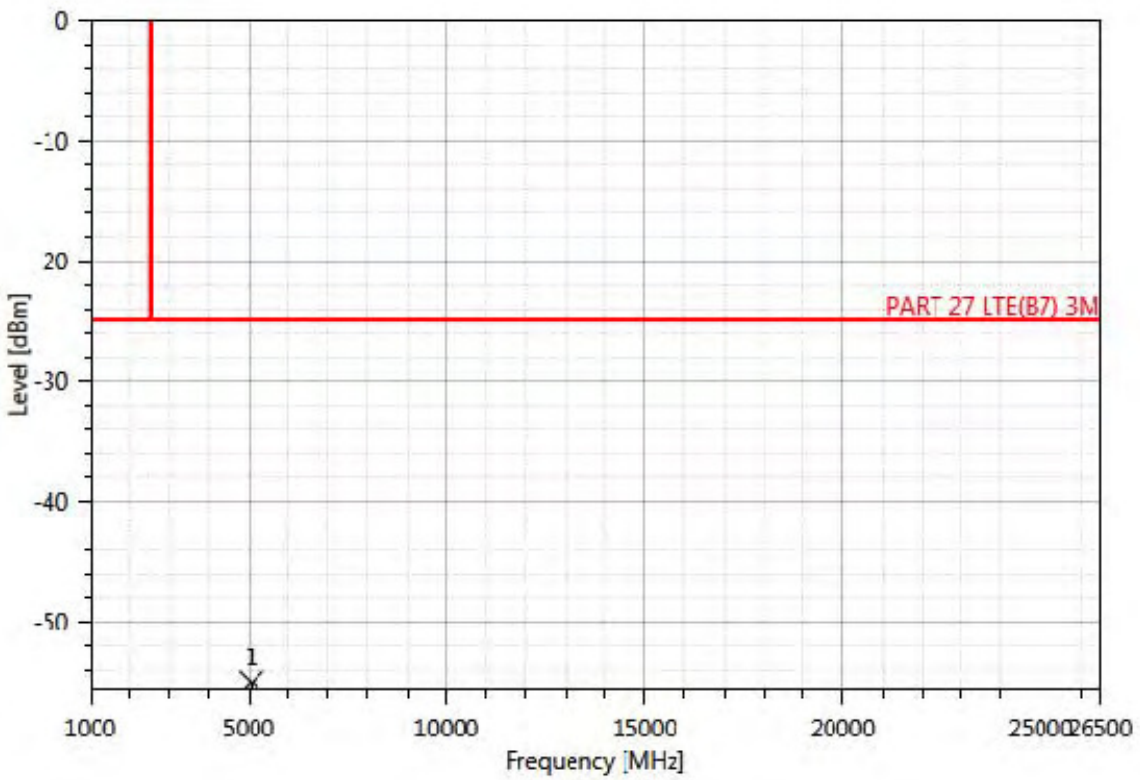
Operation Mode :	LTE B7	Test Date :	01/10/2017
Fundamental Frequency :	2535.0 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
5070.00	H	Peak	-55.09	-59.96	12.73	-7.86	-25.00	-30.09

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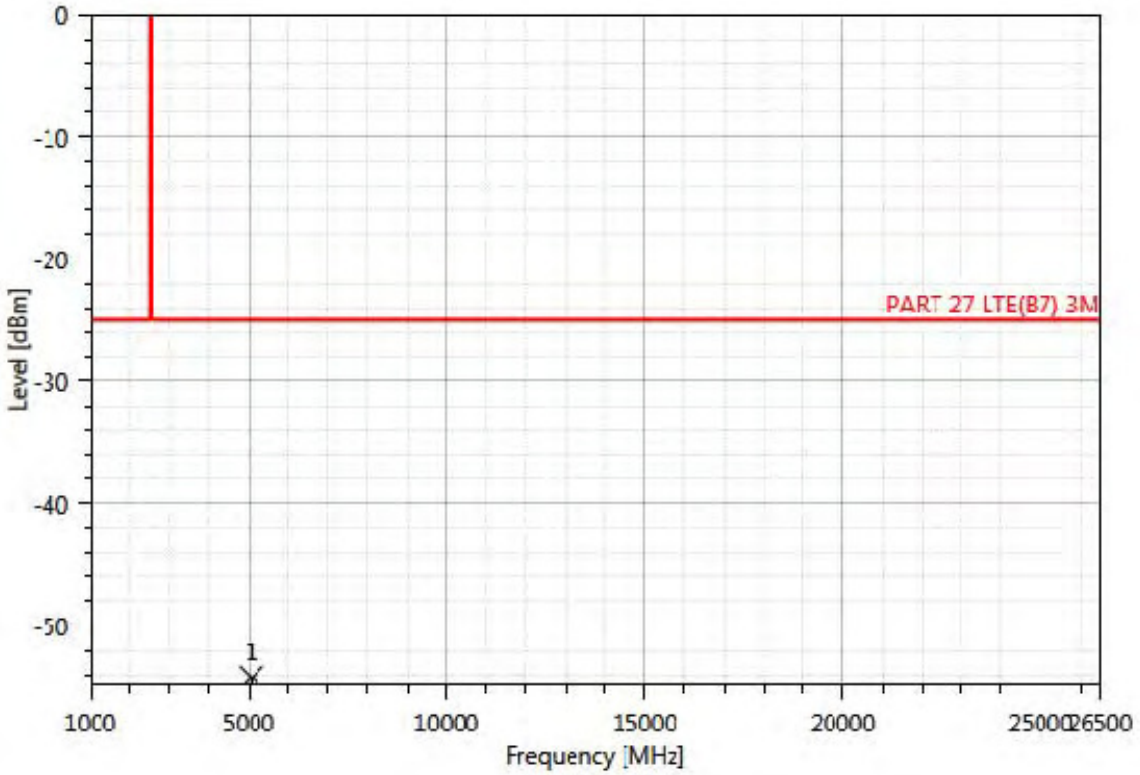
Operation Mode :	LTE B7	Test Date :	01/10/2017
Fundamental Frequency :	2535.0 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
5070.00	H	Peak	-54.23	-59.10	12.73	-7.86	-25.00	-29.23

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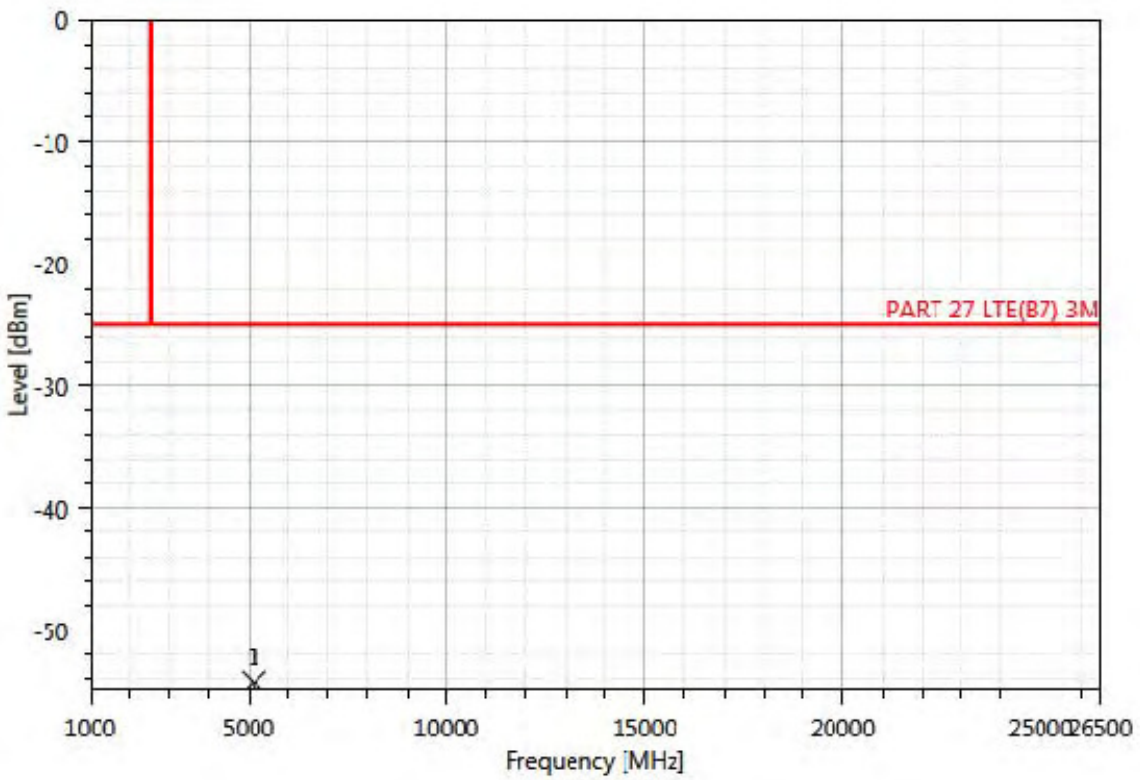
Operation Mode :	LTE B7	Test Date :	01/10/2017
Fundamental Frequency :	2567.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
5135.00	H	Peak	-54.29	-59.12	12.76	-7.92	-25.00	-29.29

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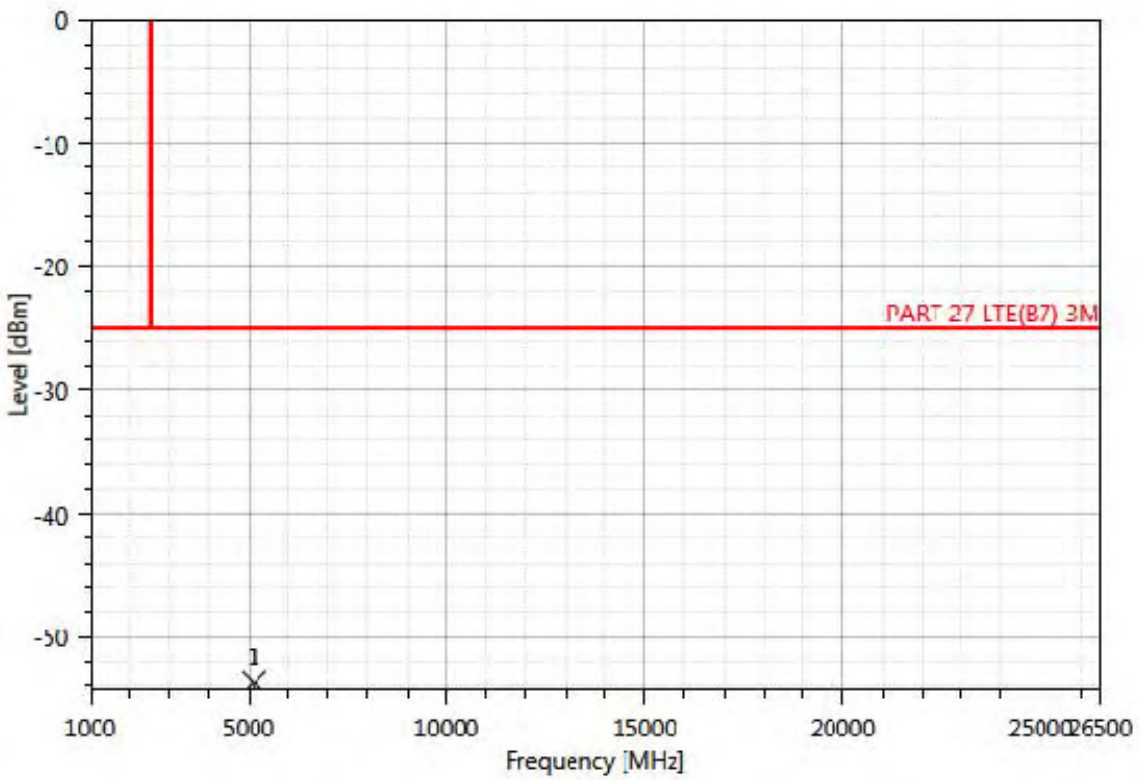
Operation Mode :	LTE B7	Test Date :	01/10/2017
Fundamental Frequency :	2567.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
5135.00	H	Peak	-53.65	-58.48	12.76	-7.92	-25.00	-28.65

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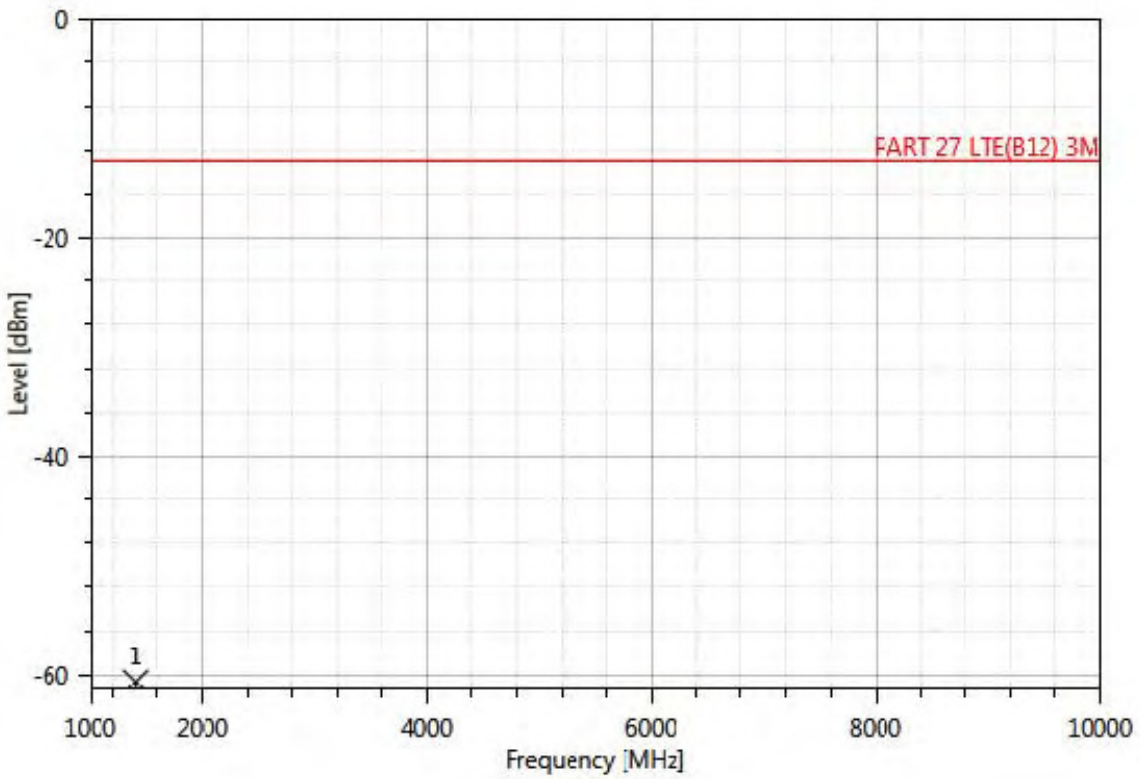
Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Mode :	LTE B12	Test Date :	01/10/2017
Fundamental Frequency :	701.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	ERP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
1403.00	H	Peak	-60.66	-62.90	6.14	-3.90	-13.00	-47.66

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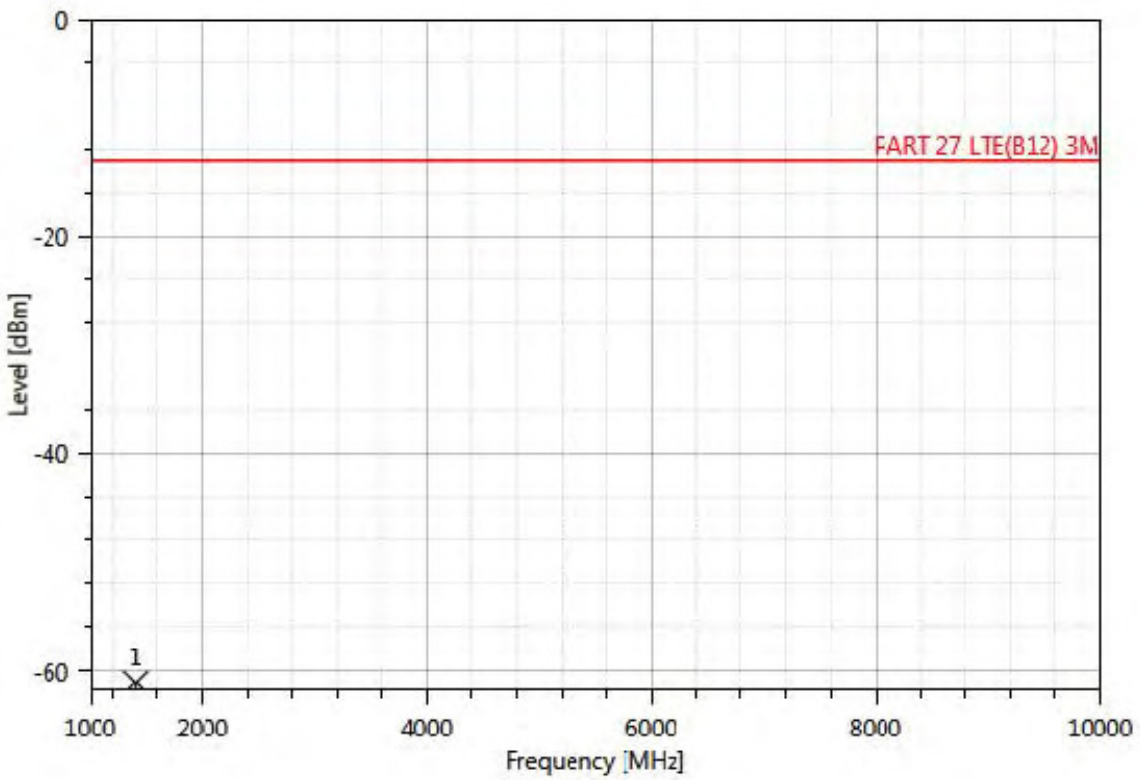
Operation Mode :	LTE B12	Test Date :	01/10/2017
Fundamental Frequency :	701.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	ERP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
1403.00	H	Peak	-61.14	-63.38	6.14	-3.90	-13.00	-48.14

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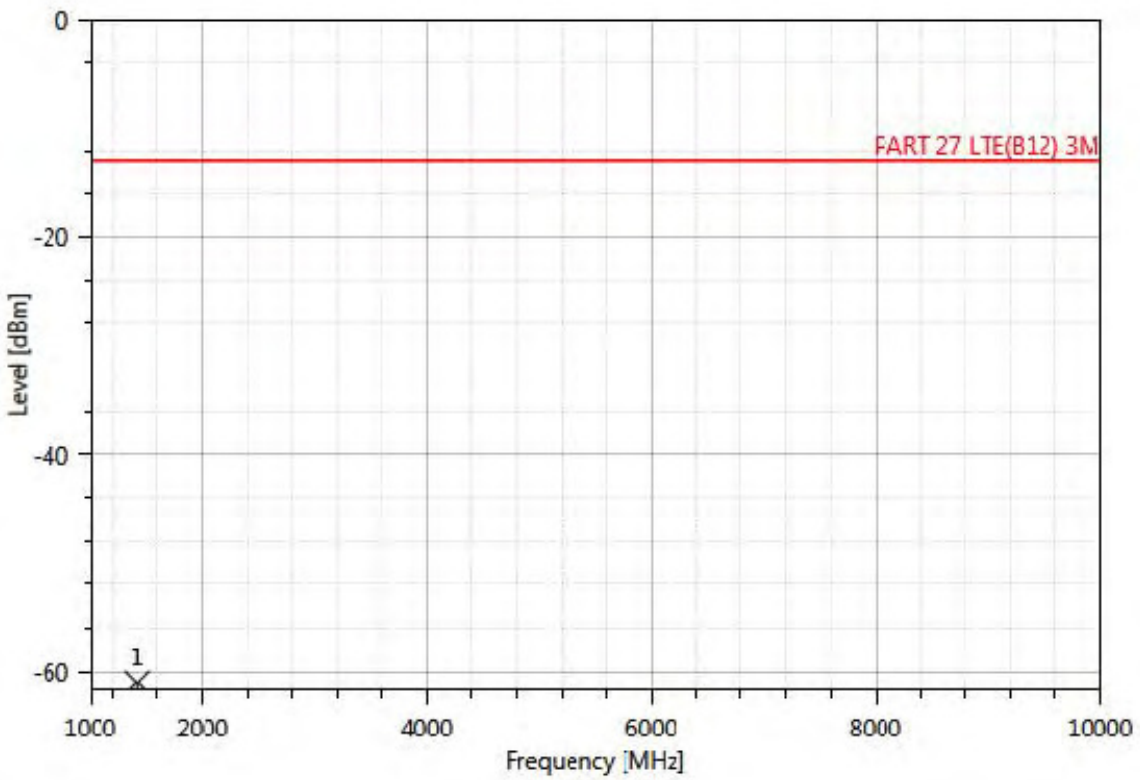
Operation Mode :	LTE B12	Test Date :	01/10/2017
Fundamental Frequency :	707.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	ERP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
1415.00	H	Peak	-61.04	-63.32	6.19	-3.91	-13.00	-48.04

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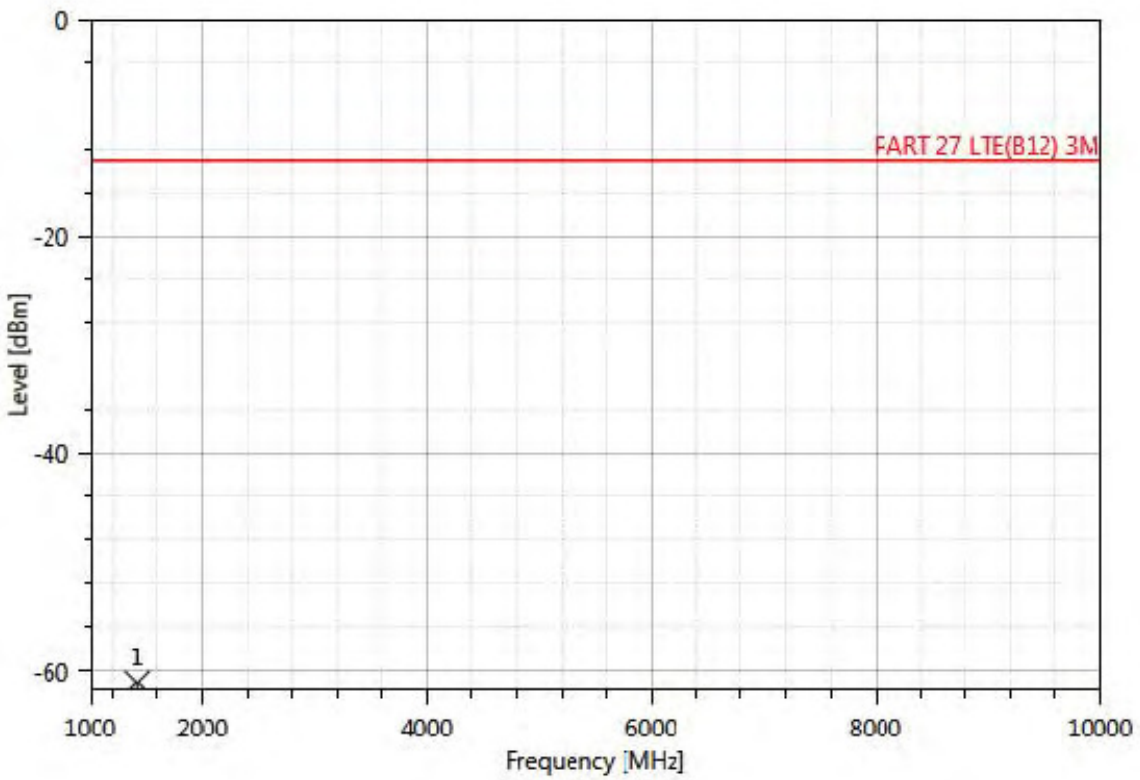
Operation Mode :	LTE B12	Test Date :	01/10/2017
Fundamental Frequency :	707.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	ERP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
1415.00	H	Peak	-61.14	-63.41	6.19	-3.91	-13.00	-48.14

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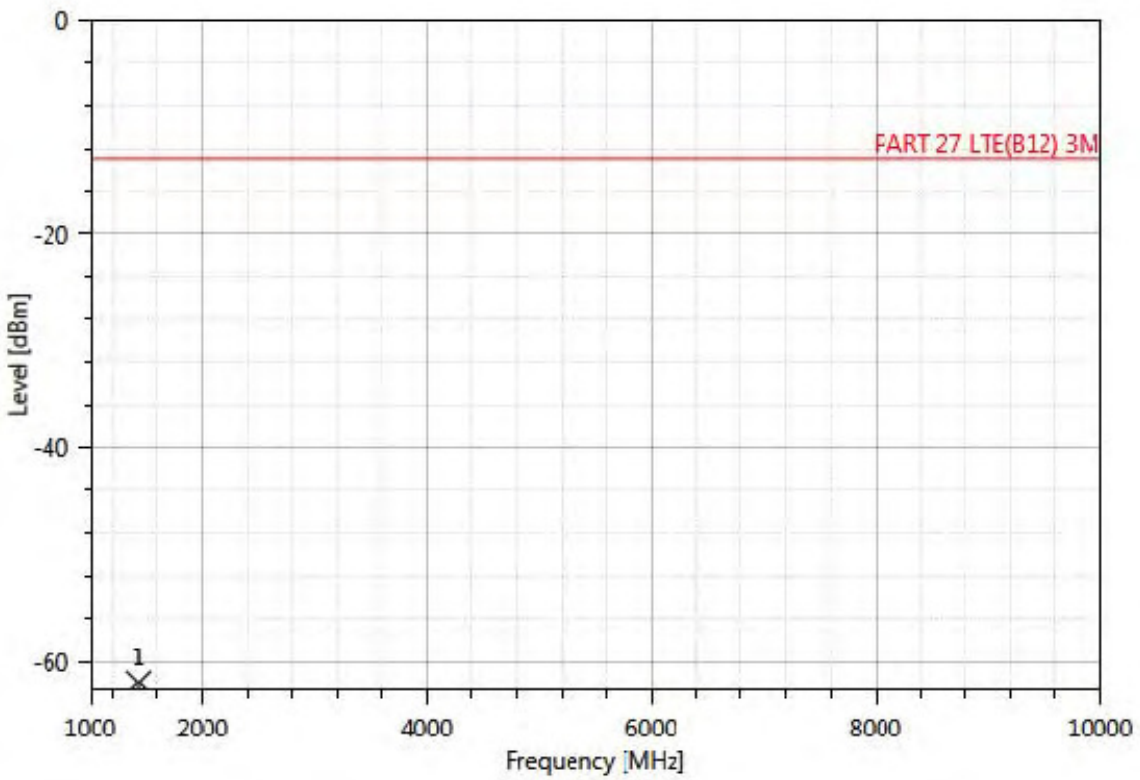
Operation Mode :	LTE B12	Test Date :	01/10/2017
Fundamental Frequency :	713.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	ERP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
1427.00	H	Peak	-61.96	-64.27	6.24	-3.93	-13.00	-48.96

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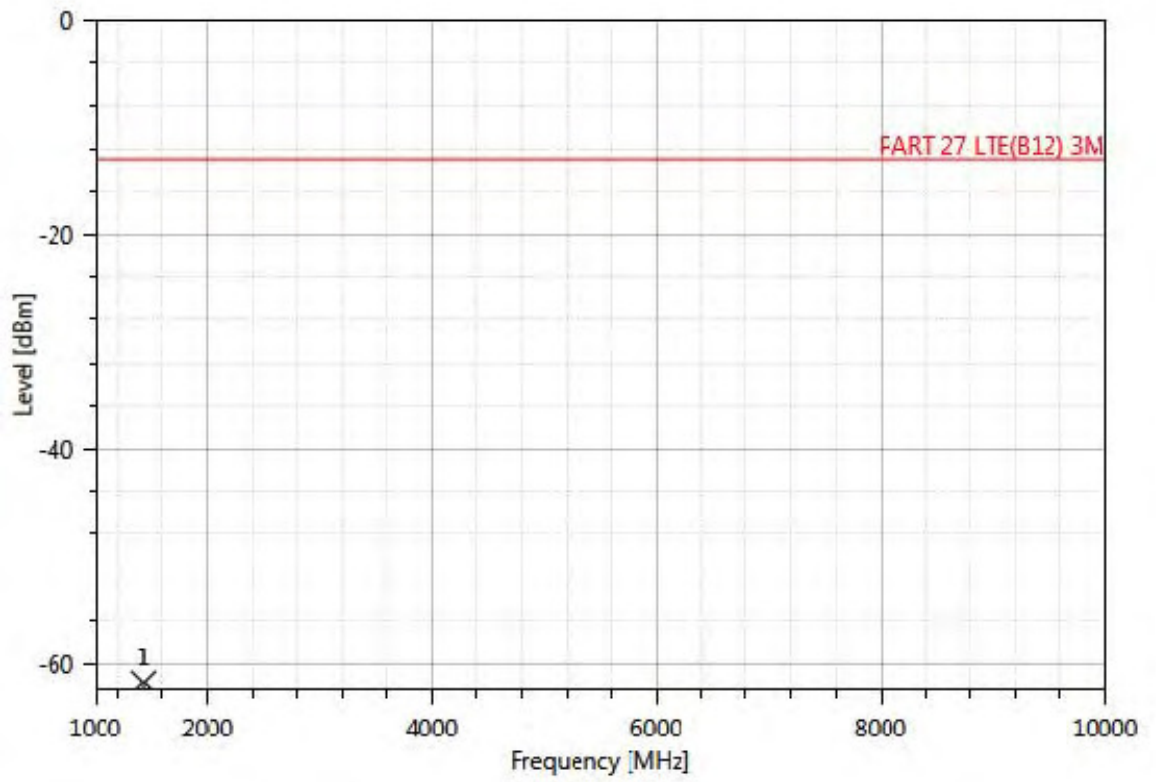
Operation Mode :	LTE B12	Test Date :	01/10/2017
Fundamental Frequency :	713.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	ERP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
1427.00	H	Peak	-61.76	-64.07	6.24	-3.93	-13.00	-48.76

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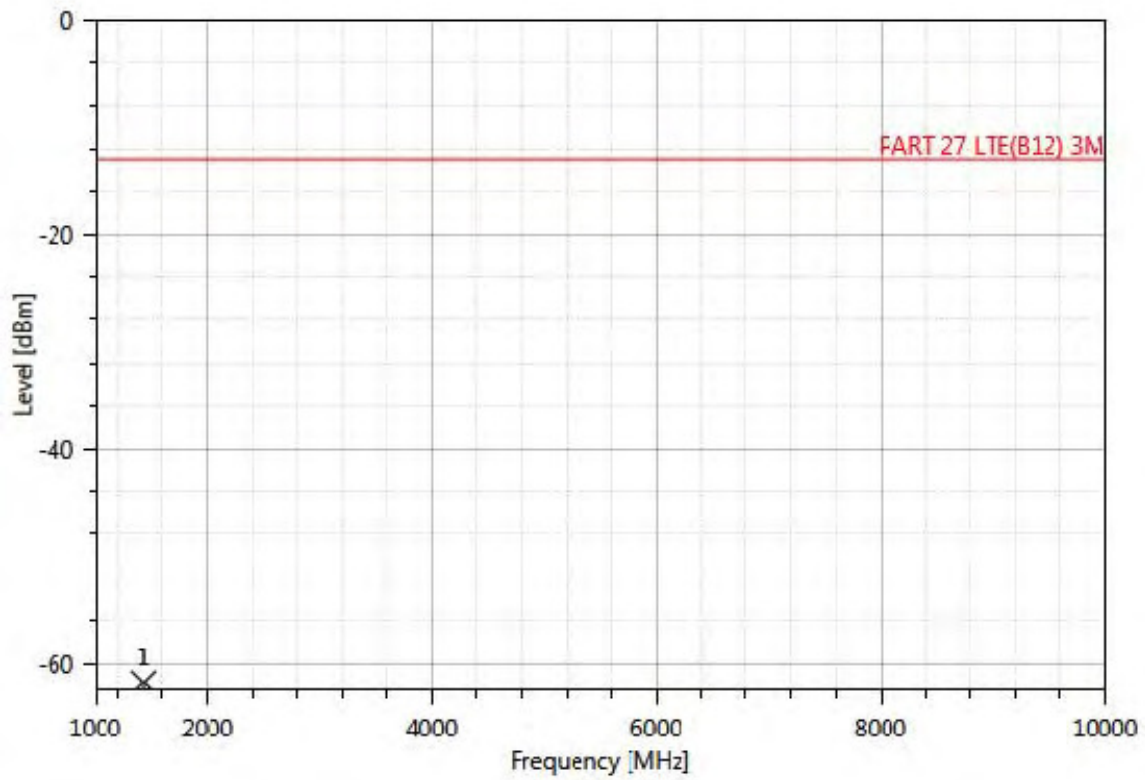
Operation Mode :	LTE B12	Test Date :	10/07/2016
Fundamental Frequency :	713.5 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	ERP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
1427.00	H	Peak	-61.76	-64.07	6.24	-3.93	-13.00	-48.76

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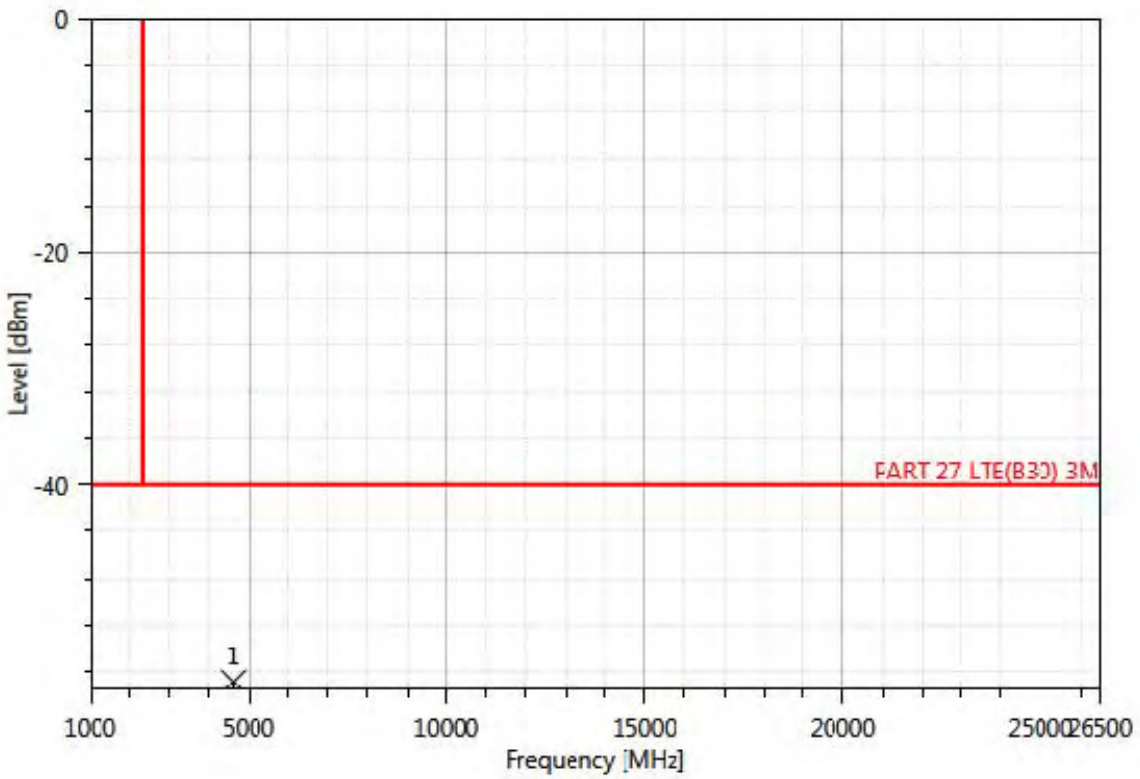
Radiated Spurious Emission Measurement Result: LTE-Band 30 (The Worst Case)

Operation Mode :	LTE B30	Test Date :	01/10/2017
Fundamental Frequency :	2307.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
4615.00	H	Peak	-56.85	-62.12	12.70	-7.43	-40.00	-16.85

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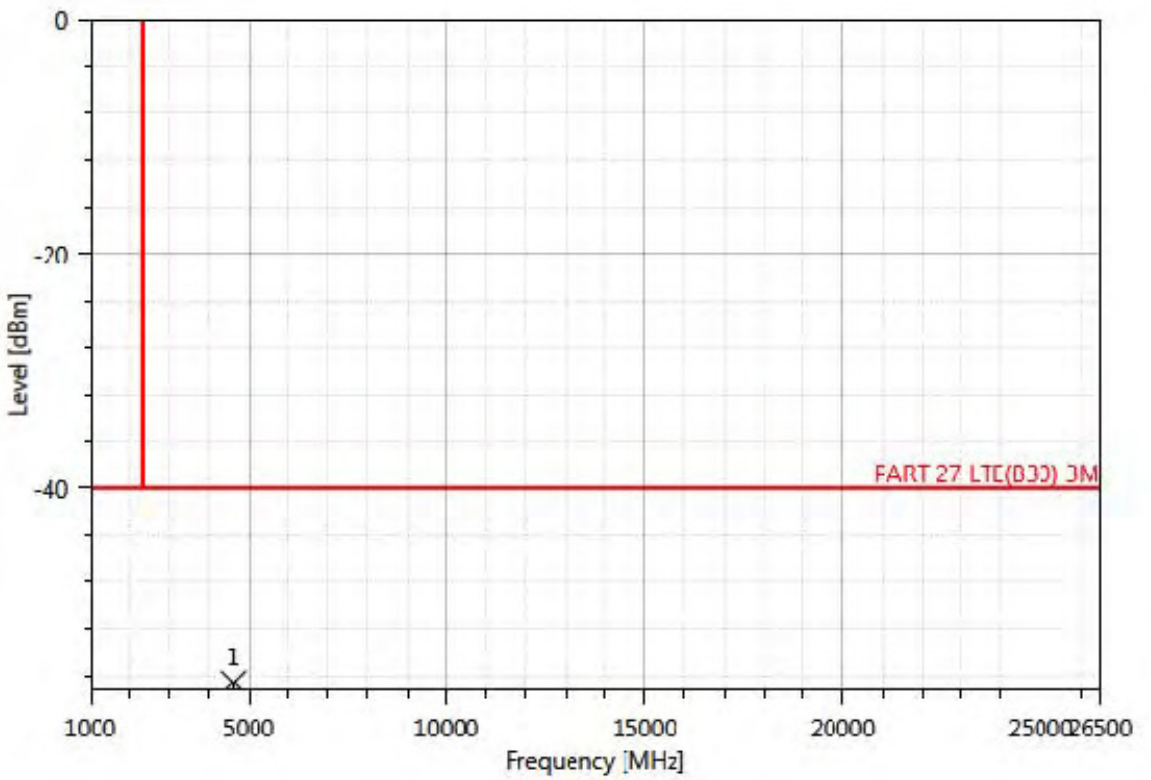
Operation Mode :	LTE B30	Test Date :	01/10/2017
Fundamental Frequency :	2307.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
4615.00	H	Peak	-56.57	-61.84	12.70	-7.43	-40.00	-16.57

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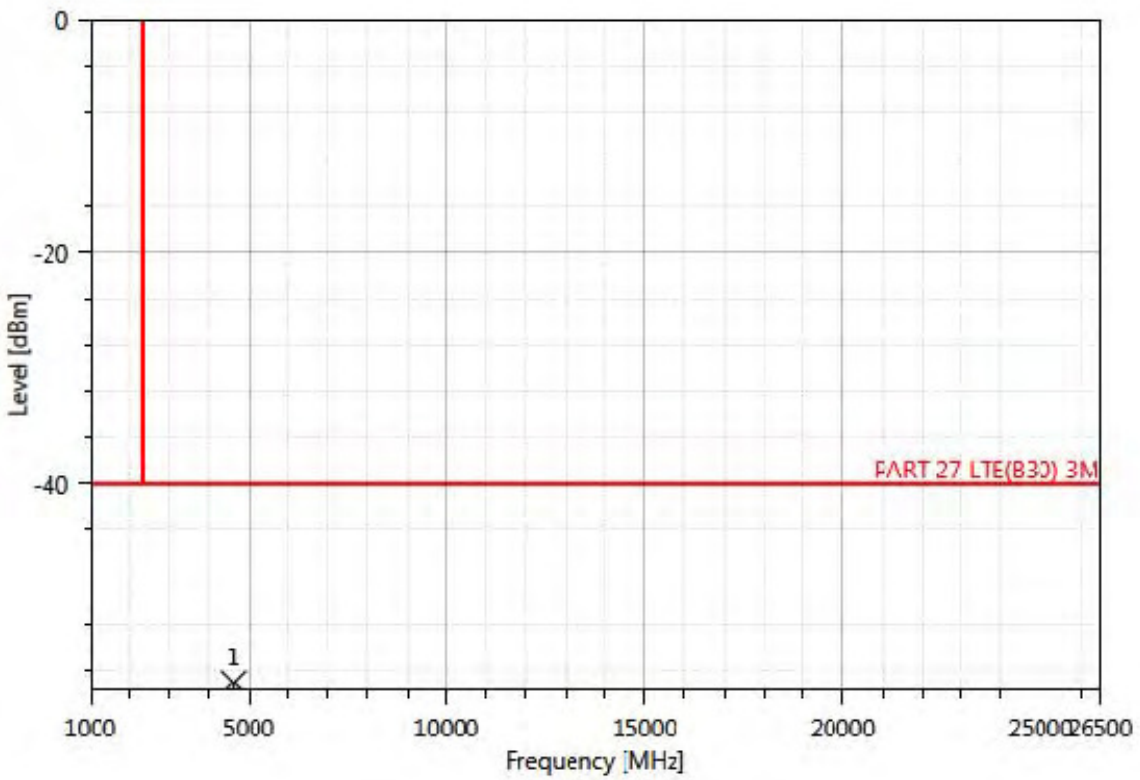
Operation Mode :	LTE B30	Test Date :	01/10/2017
Fundamental Frequency :	2310 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
4620.00	H	Peak	-57.07	-62.33	12.70	-7.44	-40.00	-17.07

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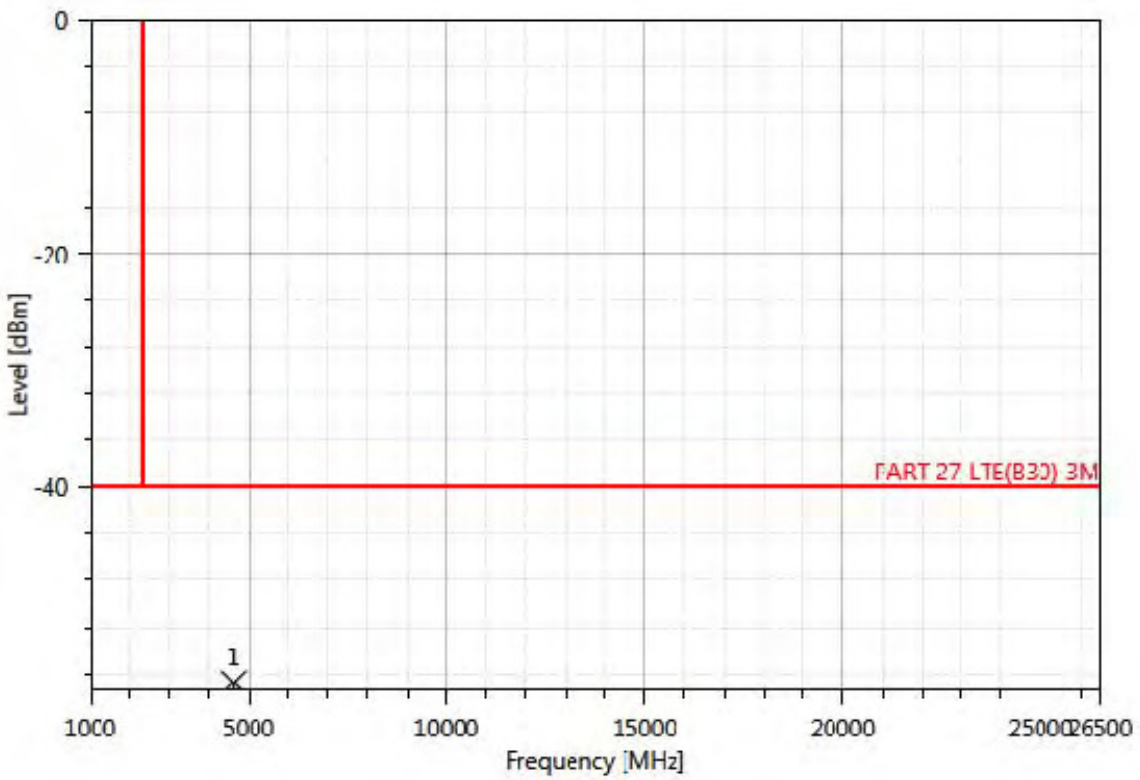
Operation Mode :	LTE B30	Test Date :	01/10/2017
Fundamental Frequency :	2310 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
4620.00	H	Peak	-56.75	-62.01	12.70	-7.44	-40.00	-16.75

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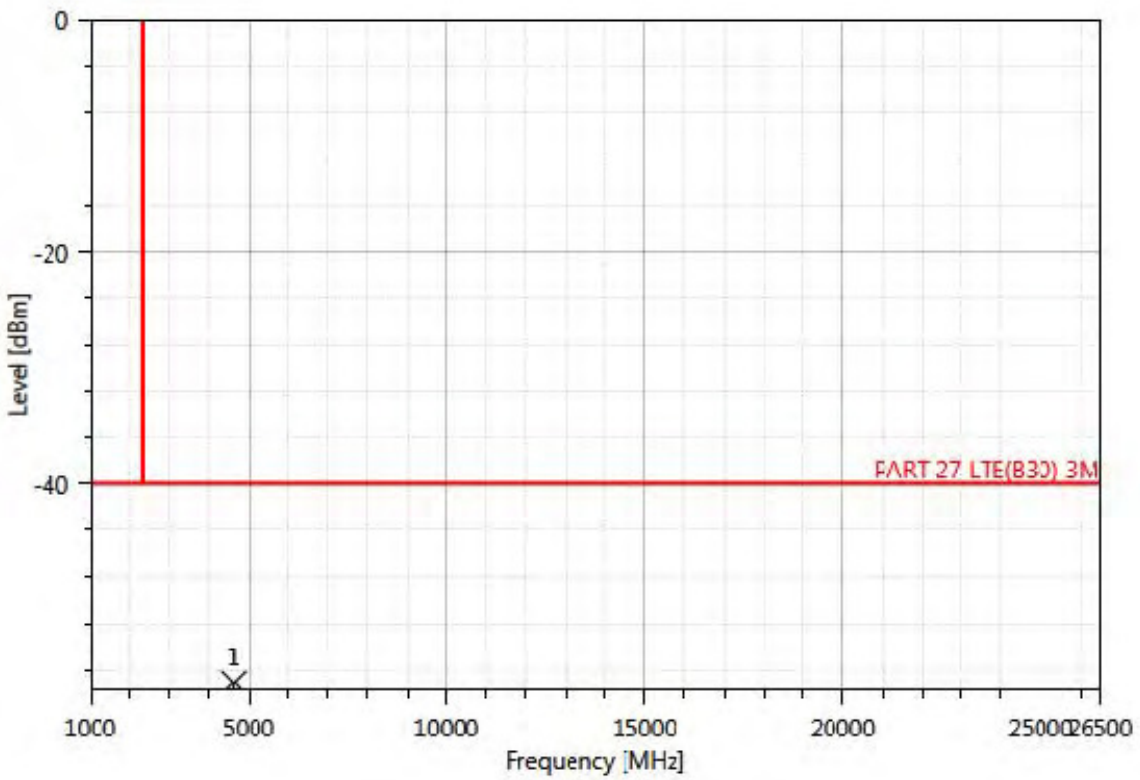
Operation Mode :	LTE B30	Test Date :	01/10/2017
Fundamental Frequency :	2312.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
4625.00	H	Peak	-57.13	-62.39	12.70	-7.44	-40.00	-17.13

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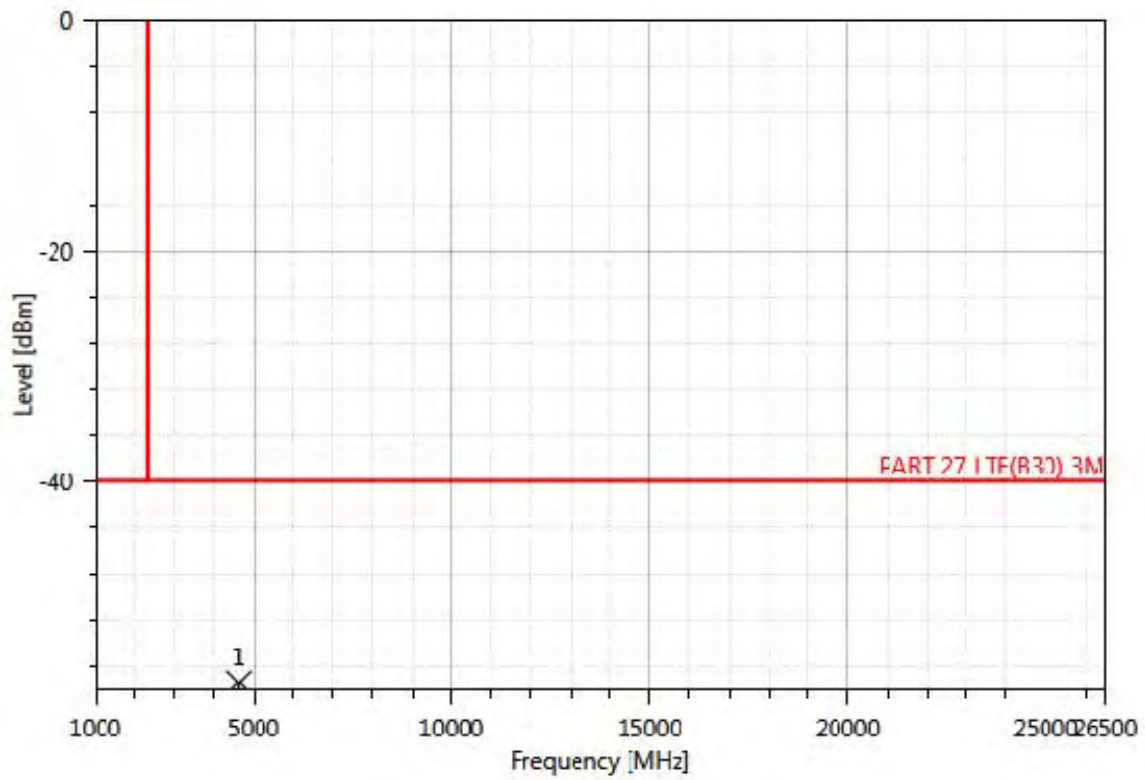
Operation Mode :	LTE B30	Test Date :	01/10/2017
Fundamental Frequency :	2312.5 MHz	Temp. / Humi. :	22 deg_C / 61 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	EIRP Level	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
4625.00	H	Peak	-57.45	-62.71	12.70	-7.44	-40.00	-17.45

~ End of Report ~

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