



# FCC RF Test Report

Product Name: Smart Phone

Model Number: ELE-L29/ELE-L09

Report No.: SYBH(Z-RF)20181114019001-2006

FCC ID : QISELE-LX9

Autheorized	APPROVED (Lab Manager)	PREPARED (Test Engineer)
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DATE	2018-12-27	2018-12-27

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**※ ※ Notice ※ ※**

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2. The Laboratory of Sporton International (Shenzhen) Inc has passed the accreditation by National Voluntary Laboratory Accreditation Program (NVLAP). The NVLAP LAB CODE is 600156-0.
3. The Reliability Laboratory of Huawei Technologies Co., Ltd has been recognized by the US Federal Communications Commission (FCC) to perform compliance testing subject to the Commission's Certification rules. The Designation Number is CN1173, and the Test Firm Registration Number is 294140.
4. The Laboratory of Sporton International (Shenzhen) Inc has been recognized by the US Federal Communications Commission (FCC) to perform compliance testing subject to the Commission's Certification rules. The Designation Number is CN5019, and the Test Firm Registration Number is 577730.
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## MODIFICATION RECORD

No.	Report No	Modification Description
1	SYBH(Z-RF)20181114019001	First release.

## DECLARATION

Type	Description
Multiple Models Applications	<p><input type="checkbox"/> The present report applies to single model.</p> <p><input checked="" type="checkbox"/> The present report applies to several models. The practical measurements are performed with the model <u>ELE-L29</u>.</p> <p>These models utilize the similar radio design, shielding, interface, physical layout and so on. The differences and modifications between these models are declared by the applicant and showed in General Description</p> <p>All others between these models are identical.</p> <p>The present report only presents the worst test case of all modes, see relevant test results for detailed.</p>

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## 2 General Information

### 1.1 Test standard/s

Applied Rules :	47 CFR FCC Part 02 47 CFR FCC Part 15 Subpart C (15.225)
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### 1.2 Test Environment

Temperature :	TN	15 to 30	°C during room temperature tests
Ambient Relative Humidity:	20 to 85 %		
Atmospheric Pressure:	Not applicable		
Power supply :	VL	3.6	V
	VN	3.82	V DC by Battery
	VH	4.35	V

NOTE 1: 1) VN= nominal voltage, VL= low extreme test voltage, VH= High extreme test voltage;

TN= normal temperature, TL= low extreme test temperature, TH= High extreme test temperature.

NOTE 2: The values used in the test report may be stringent than the declared.

### 1.3 Test Laboratories

Test Location 1 :	RELIABILITY LABORATORY OF HUAWEI TECHNOLOGIES CO., LTD.
Address of Test Location 1 :	No.2 New City Avenue Songshan Lake Sci. &Tech. Industry Park, Dongguan, Guangdong, P.R.C
Sub-contracted Test Location 1 :	Sporton International (Shenzhen) Inc.
Address of Sub-contracted Test Location 1 :	No.3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.China

### 1.4 Applicant and Manufacturer

Company Name :	HUAWEI TECHNOLOGIES CO., LTD
Address :	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

### 1.5 Application details

Date of Receipt Sample:	2018-11-22
Start of test:	2018-11-22
End of test:	2018-12-25

### 3 Summary

FCC Rule No.	Test Description	Test Limit	Test Condition	Test Result	Reference	Testing location
15.225 (a)	In-Band Emissions	15,848 $\mu$ V/m @ 30m 13.553 – 13.567 MHz	RADIATED	Refer to No. SYBH(Z-RF)20181115007001	Section 5.2	Sub-contracted Test Location 1
2.1049	Bandwidth	N/A		Refer to No. SYBH(Z-RF)20181115007001	Section 5.1	Location 1
15.225(b)	In-Band Emissions	334 $\mu$ V/m @ 30m 13.410 – 13.553 MHz 13.567 – 13.710 MHz		Refer to No. SYBH(Z-RF)20181115007001	Section 5.2	Sub-contracted Test Location 1
15.225(c)	In-Band Emissions	106 $\mu$ V/m @ 30m 13.110 – 13.410 MHz 13.710 – 14.010 MHz		Refer to No. SYBH(Z-RF)20181115007001	Section 5.2	Sub-contracted Test Location 1
15.225(d) 15.209	Out-of-Band Emissions	FCC: Emissions outside of the specified band (13.110 – 14.010 MHz) must meet the radiated limits detailed in 15.209		Refer to No. SYBH(Z-RF)20181115007001	Section 5.3	Sub-contracted Test Location 1
15.225(e)	Frequency Stability Tolerance	$\pm$ 0.01% of Operating Frequency	Temperature Chamber	Refer to No. SYBH(Z-RF)20181115007001	Section 5.4	Location 1
15.207	AC Conducted Emissions 150kHz – 30MHz	FCC: < FCC 15.207 limits	LINE CONDUCTED	Refer to No. SYBH(Z-RF)20181115007001	Section 5.5	Location 1
NOTE: The transmitter has an integral PCB loop antenna that is enclosed within the housing of the EUT and meets the requirements of FCC 15.203						

## 4 Product Description

### 4.1 Product Information

#### 4.1.1 General Description

ELE-L29/ELE-L09 is subscriber equipment in the GSM/WCDMA/LTE system. The GSM frequency band includes GSM850 and GSM900 and DCS1800 and PCS1900. The UMTS frequency band is B1 and B2 and B4 and B5 and B6 and B8 and B19. The ELE-L29/ELE-L09 LTE frequency band is B1 and B2 and B3 and B4 and B5 and B6 and B7 and B8 and B9 and B12 and B17 and B18 and B19 and B20 and B26 and B28 and B32 and B34 and B38 and B39 and B41. The ELE-L29 LTE frequency band for intra-band carrier aggregation uplink operation band is CA\_1C and CA\_2C and CA\_3C and CA\_7C and CA\_38C and CA\_39C and CA\_41C. The Mobile Phone implements such functions as RF signal receiving/transmitting LTE/HSPA/UMTS and GSM/GPRS/EDGE protocol processing, voice, video MMS service, GPS, AGPS and WIFI etc. Externally it provides one micro SD card interface (it can also used as SIM card interface), earphone port (to provide voice service) and one SIM card interface. ELE-L29 is dual SIM smart phone. ELE-L09 is single SIM smart phone. It also provides Bluetooth module to synchronize data between a PC and the phone, or to use the built-in modem of the phone to access the Internet with a PC, or to exchange data with other Bluetooth devices.

The difference between model ELE-L04 and model ELE -L29 is show in the below table.

	Model	ELE-L04	ELE-L29
Licensed Frequency	LTE BAND	FCC Band: B2/B4/ B5/B7/B12/B17/B26/B38/ B41 (2535~2655MHz) /B66	FCC Band: B2/B4/ B5/B7/B12/B17/B26/B38/ B41 (2535~2655MHz)
	UMTS BAND	FCC Band: B2/B4/B5	FCC Band: B2/B4/B5
	GSM	FCC Band: B2/B5	FCC Band: B2/B5
	IC	the same	the same
	Antenna	the same	the same
	NFC	the same	the same
Unlicensed Frequency	Bluetooth	the same	the same
	2.4G Wi-Fi	the same	the same
	IC	the same	the same
	Antenna	the same	the same
Hardware	Ram / Rom	the same	the same
	Camera	the same	the same
	PCB	the same	the same

	USB Port	the same	the same
	SIM	one	two
	Hardware version	HL1ELLEM	HL1ELLEM
RF	RF circuit	The hardware channel of LTE B2/4/7(include CA band) is different	The hardware channel of LTE B2/4/7(include CA band) is different
Appearance	Dimension	the same	the same
	Color	different	different
Accessory	Battery	the same	the same
	External Charger	the same	the same
	USB label	the same	the same
	Earphone	the same	the same

Note1: Only NFC test data included in this report.

Note2: We do not test NFC of ELE-L29/ELE-L09,all test data can refer to No. SYBH(Z-RF)20181115007001 of ELE-L04(FCC ID:QISELE-L04).

## 4.2 EUT Identity

NOTE: Unless otherwise noted in the report, the functional boards installed in the units shall be selected from the below list, but not means all the functional boards listed below shall be installed in one unit.

### 4.2.1 Board

Board		
Description	Software version	Hardware version
Main Board	5.0.1.73 (SP2C432E73R1P6)	HL1ELLEM



### 4.2.2 Sub-Assembly

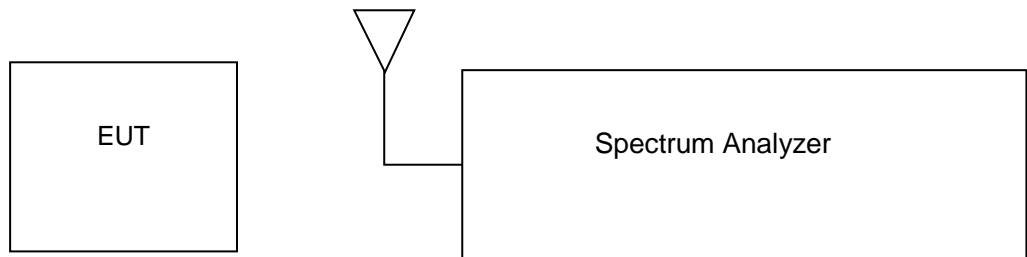
Sub-Assembly			
Sub-Assembly Name	Model	Manufacturer	Description
Adapter	HW-050450B00	Huawei Technologies Co.,Ltd.	Input Voltage:100V-240V~50/60Hz, 0.75A Output Voltage: 5V <b>=====</b> 2A OR4.5V <b>=====</b> 5A OR 5V <b>=====</b> 4.5A
Adapter	HW-050450E00	Huawei Technologies Co.,Ltd.	Input Voltage:100V-240V~50/60Hz, 0.75A Output Voltage: 5V <b>=====</b> 2A OR4.5V <b>=====</b> 5A OR 5V <b>=====</b> 4.5A
Adapter	HW-050450U00	Huawei Technologies Co.,Ltd.	Input Voltage:100V-240V~50/60Hz, 0.75A Output Voltage: 5V <b>=====</b> 2A OR4.5V <b>=====</b> 5A OR 5V <b>=====</b> 4.5A
Adapter	HW-050450A00	Huawei Technologies Co.,Ltd.	Input Voltage:100V-240V~50/60Hz, 0.75A Output Voltage: 5V <b>=====</b> 2A OR4.5V <b>=====</b> 5A OR 5V <b>=====</b> 4.5A
Adapter	HW-050450E01	Huawei Technologies Co.,Ltd.	Input Voltage:100V-240V~50/60Hz, 0.75A Output Voltage: 5V <b>=====</b> 2A OR4.5V <b>=====</b> 5A OR 5V <b>=====</b> 4.5A
Adapter	HW-050450A01	Huawei Technologies Co.,Ltd.	Input Voltage:100V-240V~50/60Hz, 0.75A Output Voltage: 5V <b>=====</b> 2A OR4.5V <b>=====</b> 5A OR 5V <b>=====</b> 4.5A
Li-ion Polymer Battery	HB436380ECW	Huawei Technologies Co.,Ltd.	Rated capacity: 3550mAh Nominal Voltage: +3.85V Charging Voltage: +4.43V

## 5 Test Results

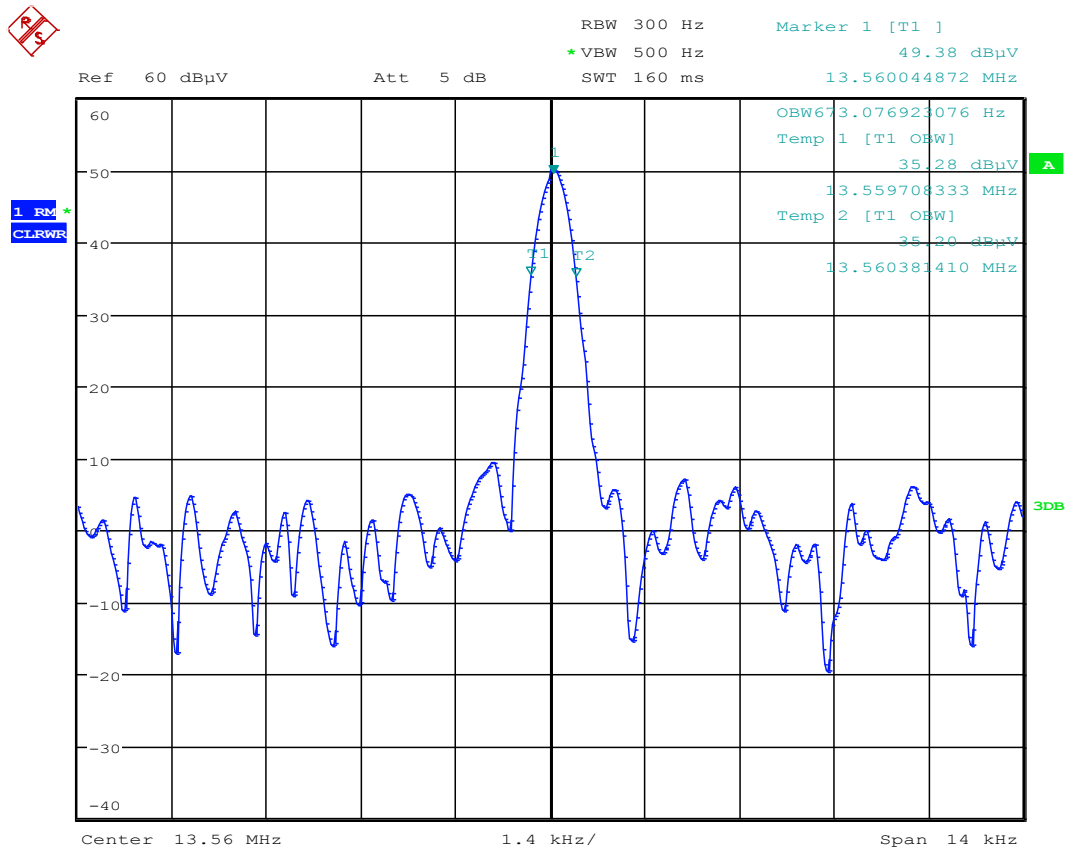
### 5.1 Bandwidth Measurement

The 99% emission bandwidth is measured with a spectrum analyzer connected via a receive antenna placed near the EUT while the EUT is operating in transmission mode.

#### 5.1.1 Test Setup



### 5.1.2 Test Result



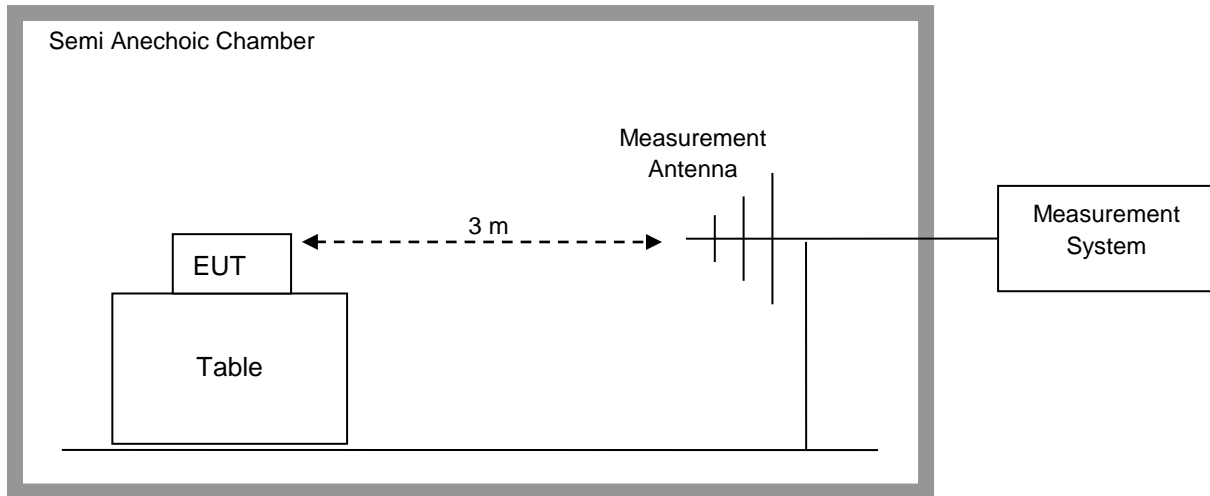
Date: 17.DEC.2018 11:38:33

Test Environment	OBW (Hz)	FL@OBW (MHz)	FH@OBW (MHz)	Verdict
TN/VN	673.077	13.559708333	13.560381410	PASS

The result of the measurement is passed.

## 5.2 In-Band Radiated Spurious Emission Measurements

### 5.2.1 Test Setup

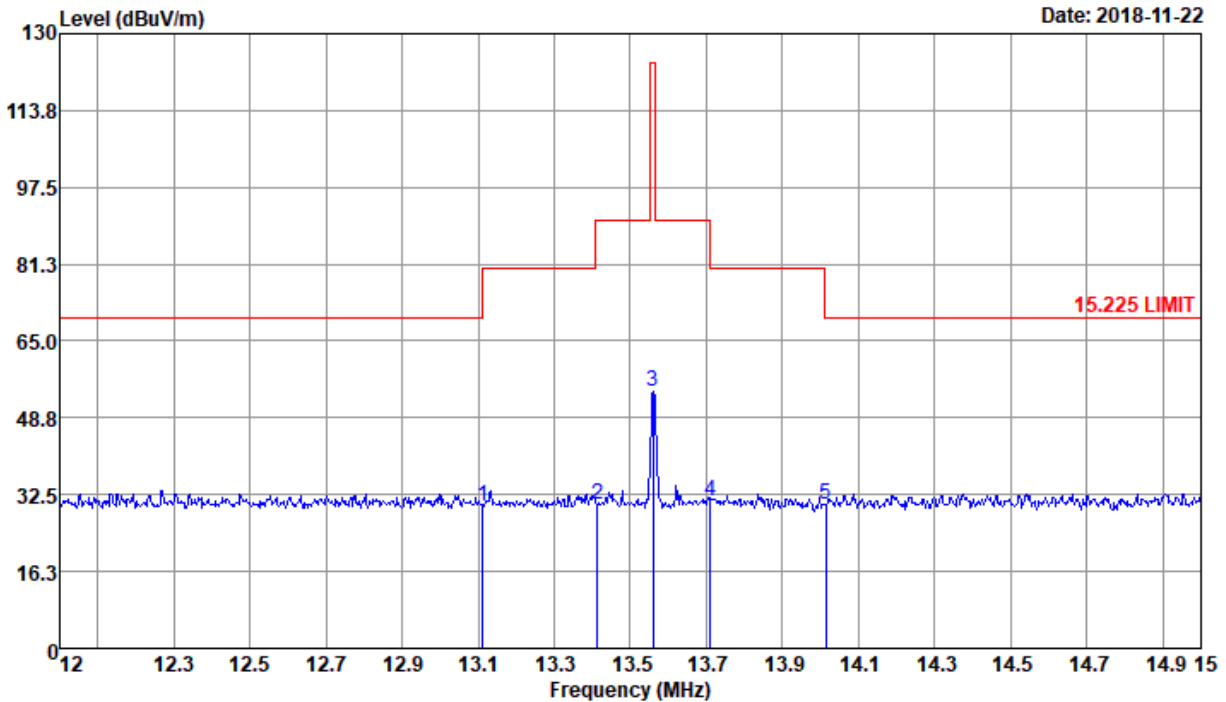


Measurement parameters	
Detector:	Quasi Peak
Sweep time:	-/-
Resolution bandwidth:	10 kHz
Video bandwidth:	10 kHz
Span:	-/-
Trace-Mode:	Max Hold

### 5.2.2 Test Result



Data: 37



Site : 03CH01-SZ  
 Condition : 15.225 LIMIT 3m LOOP ANT\_1806 VERTICAL  
 : RBW:10.000KHz VBW:10.000KHz  
 FCC : A

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	13.11	29.89	-50.62	80.51	10.71	19.18	0.00	0.00	Peak
2	13.41	30.48	-59.99	90.47	11.36	19.12	0.00	0.00	Peak
3	13.56	54.24	-69.76	124.00	35.15	19.09	0.00	0.00	Peak
4	13.71	31.18	-49.33	80.51	12.12	19.06	0.00	0.00	Peak
5 pp	14.01	30.25	-39.75	70.00	11.25	19.00	0.00	0.00	Peak

**NOTES:**

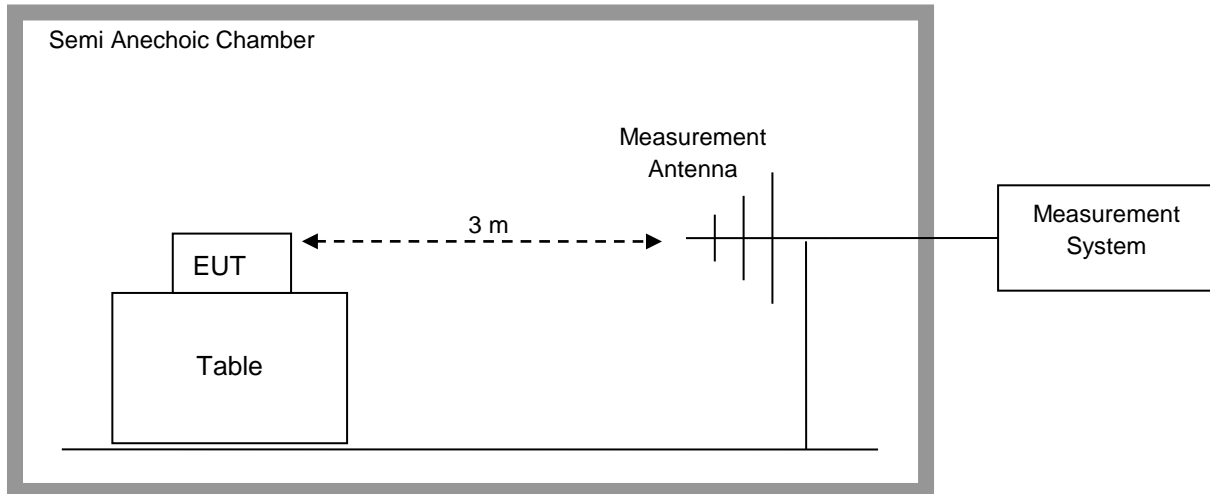
1. All measurements were performed using a loop antenna. The antenna was positioned in three orthogonal positions (X front, Y side, Z top) and the position with the highest emission level was recorded.
2. Measurements were performed at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)(2). Extrapolation Factor =  $20 \log_{10}(30/3)^2 = 40\text{dB}$
3. All measurements were recorded using a spectrum analyzer employing a quasi-peak detector.
4. Level = Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain). The

reading level is calculated by software which is not shown in the sheet.

**The result of the measurement is passed.**

### 5.3 Radiated Spurious Emission Measurements, Out-of-Band

#### 5.3.1 Test Setup



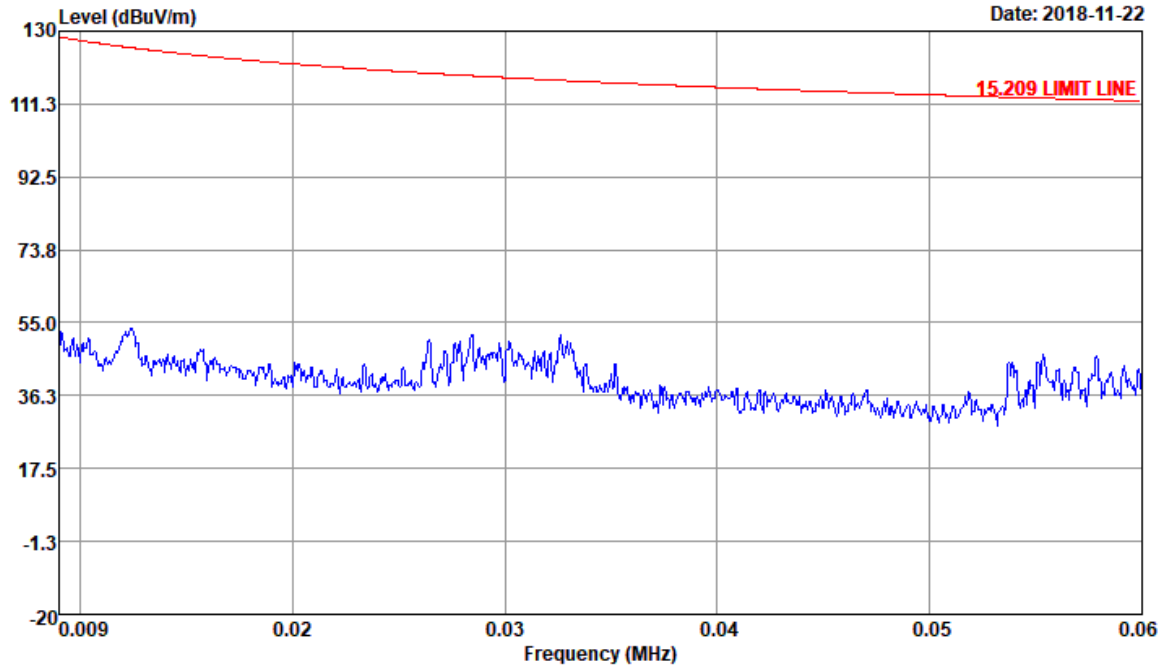
Measurement parameters	
Detector:	Quasi Peak
Sweep time:	Auto
Resolution bandwidth:	9 kHz – 150 kHz: 200 Hz 150 kHz – 30 MHz: 9 kHz 30 MHz – 1000 MHz: 100 kHz
Video bandwidth:	9 kHz – 150 kHz: 200 Hz 150 kHz – 30 MHz: 9 kHz 30 MHz – 1000 MHz: 100 kHz
Span:	See Plots
Trace-Mode:	Max Hold

#### 5.3.2 Test Result

9k~30MHz



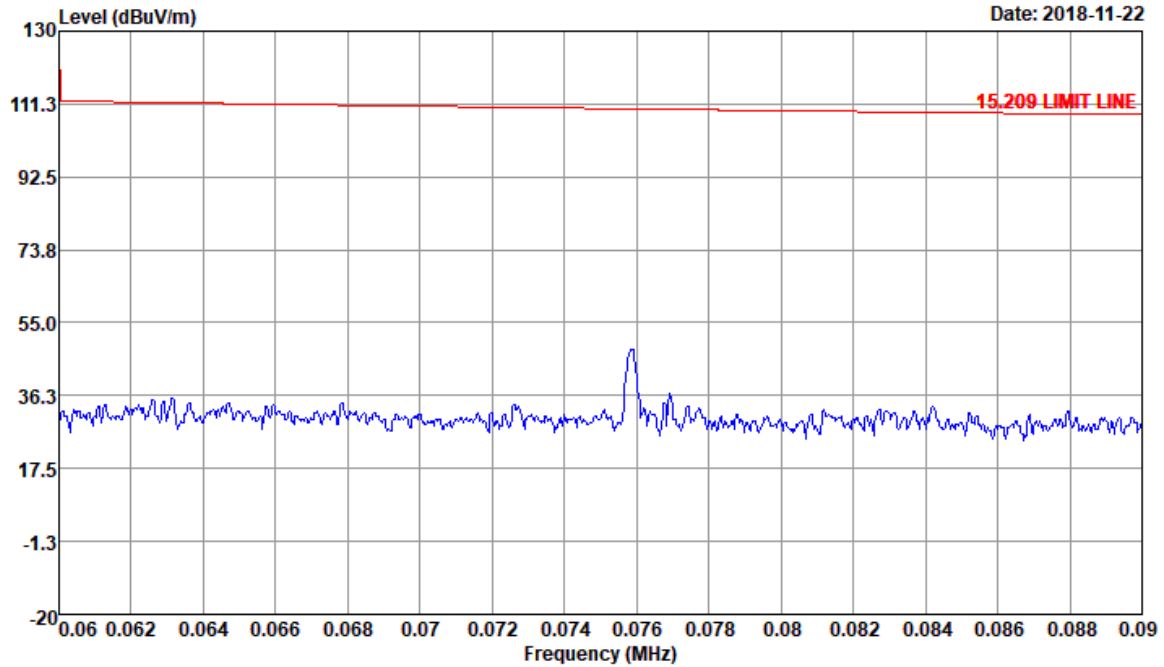
Data: 41



Site : 03CH01-SZ  
Condition : 15.209 LIMIT LINE 3m LOOP ANT\_1806 HORIZONTAL  
: RBW:0.200KHz VBW:0.600KHz  
FCC :



Data: 52

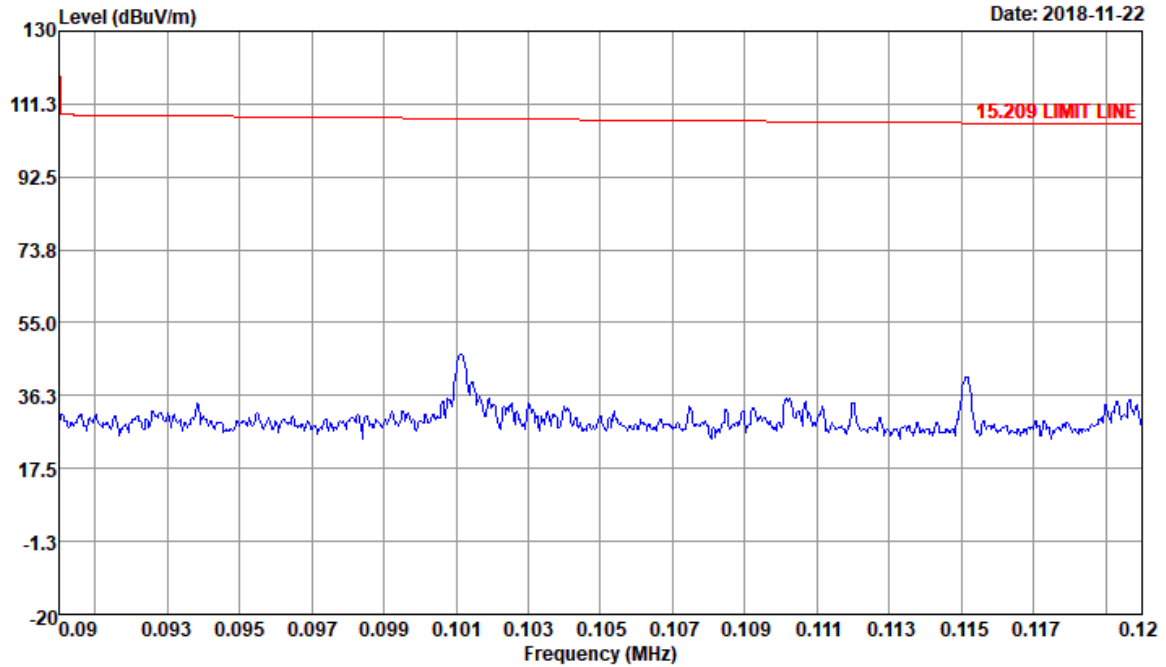


Site : 03CH01-SZ  
Condition : 15.209 LIMIT LINE 3m LOOP ANT\_1806 HORIZONTAL  
: RBW:0.200KHz VBW:0.600KHz  
FCC :





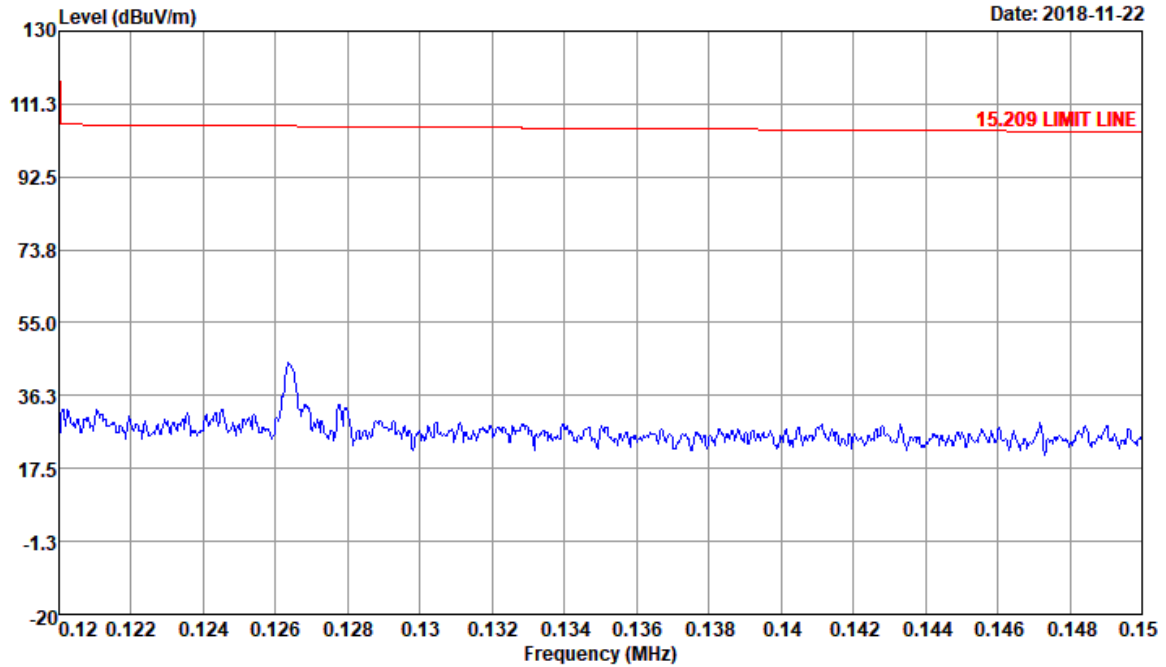
Data: 55



Site : 03CH01-SZ  
Condition : 15.209 LIMIT LINE 3m LOOP ANT\_1806 HORIZONTAL  
: RBW:0.200KHz VBW:0.600KHz  
FCC :



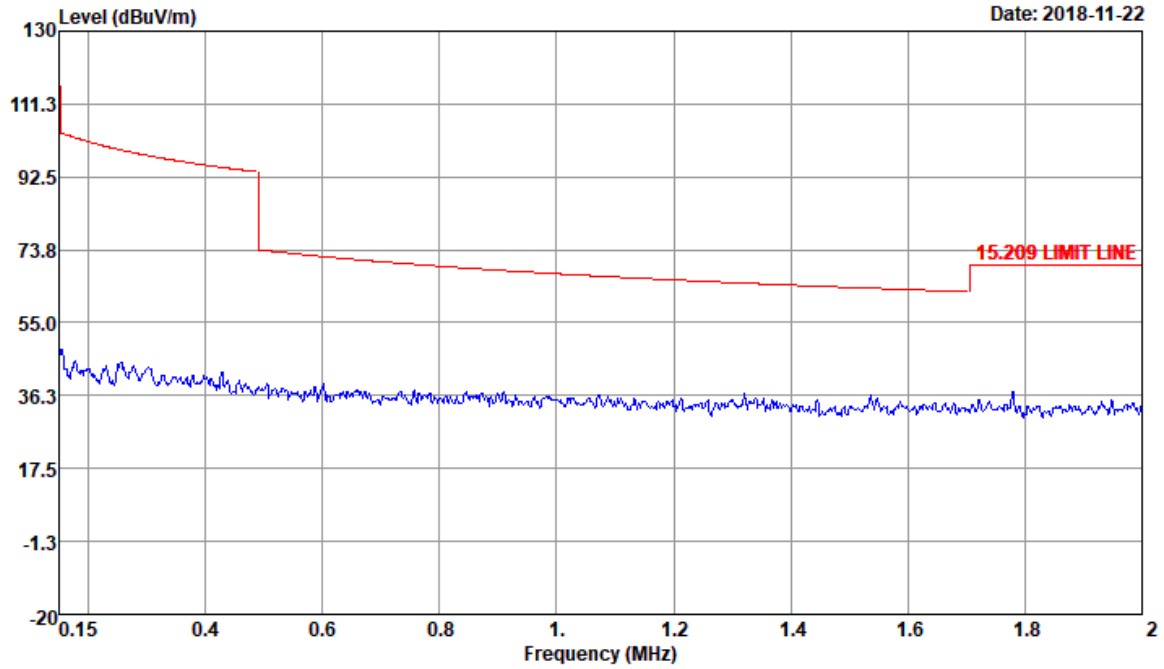
Data: 61



Site : 03CH01-SZ  
Condition : 15.209 LIMIT LINE 3m LOOP ANT\_1806 HORIZONTAL  
: RBW:0.200KHz VBW:0.600KHz  
FCC :



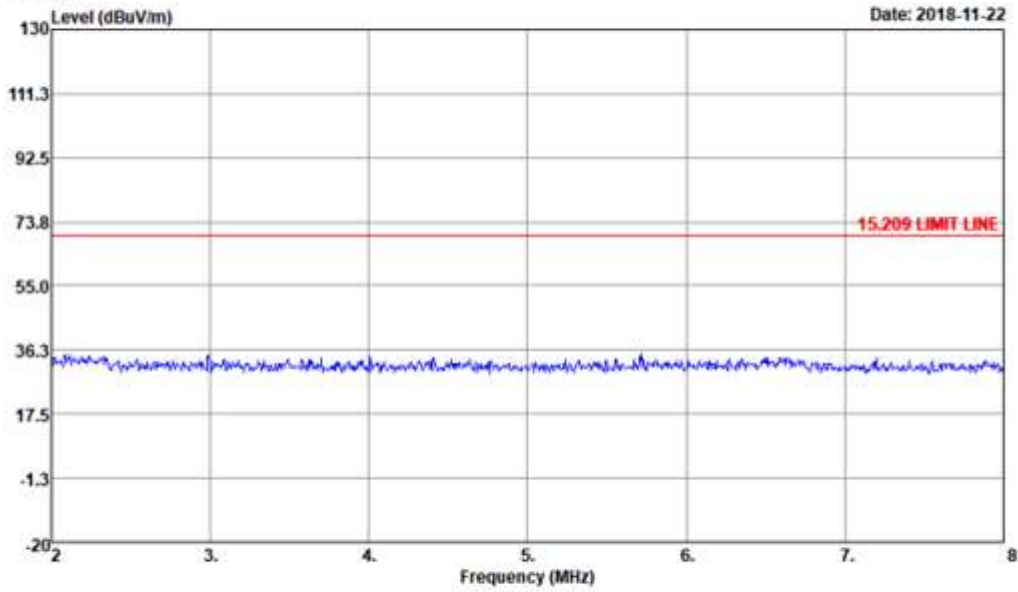
Data: 58



Site : 03CH01-SZ  
Condition : 15.209 LIMIT LINE 3m LOOP ANT\_1806 HORIZONTAL  
: RBW:9.000KHz VBW:27.000KHz  
FCC :



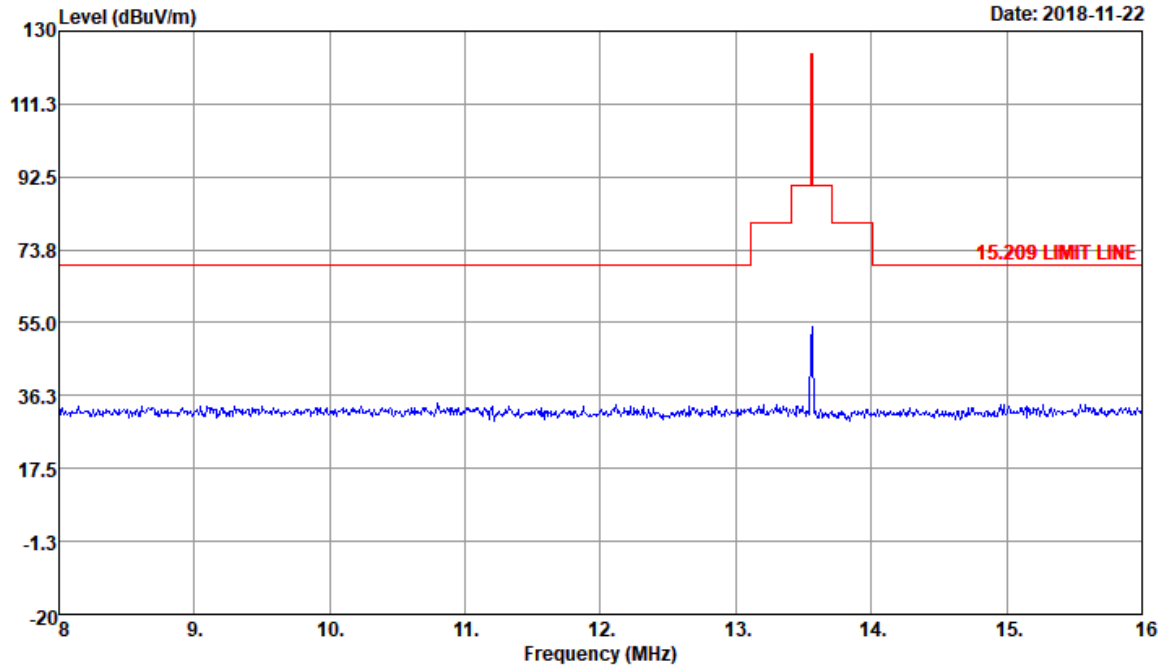
Data: 65



Site : 03CH01-SZ  
Condition : 15.209 LIMIT LINE 3m LOOP ANT\_1806 HORIZONTAL  
: RBW:9.000KHz VBW:27.000KHz  
FCC :



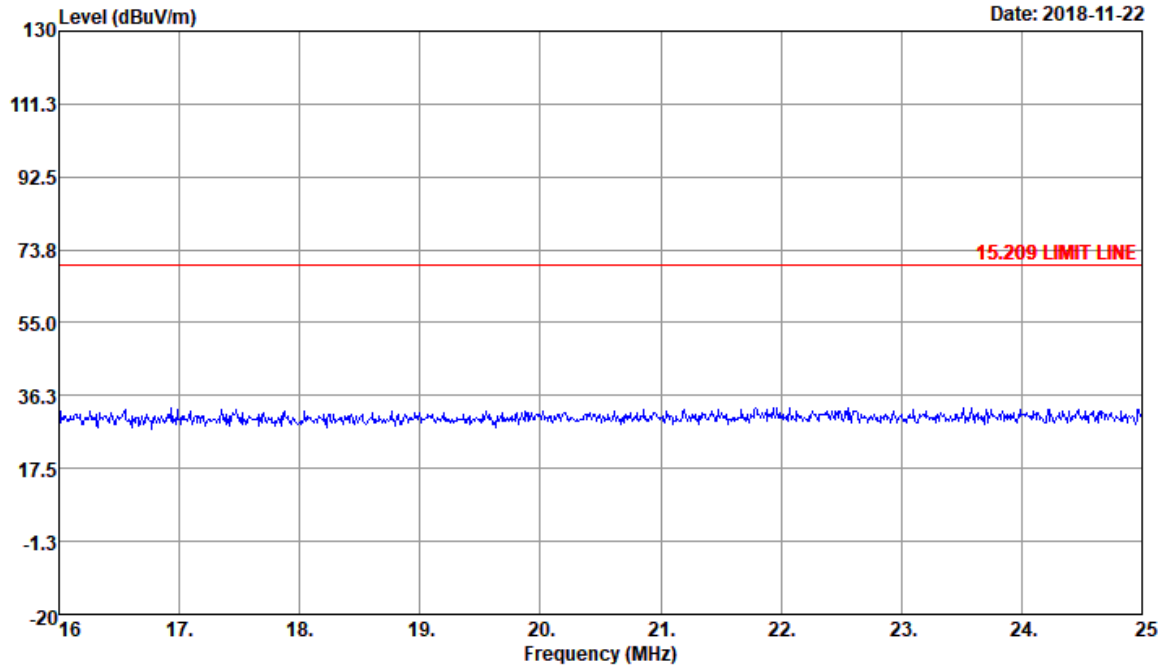
Data: 67



Site : 03CH01-SZ  
Condition : 15.209 LIMIT LINE 3m LOOP ANT\_1806 HORIZONTAL  
: RBW:9.000KHz VBW:27.000KHz  
FCC : B



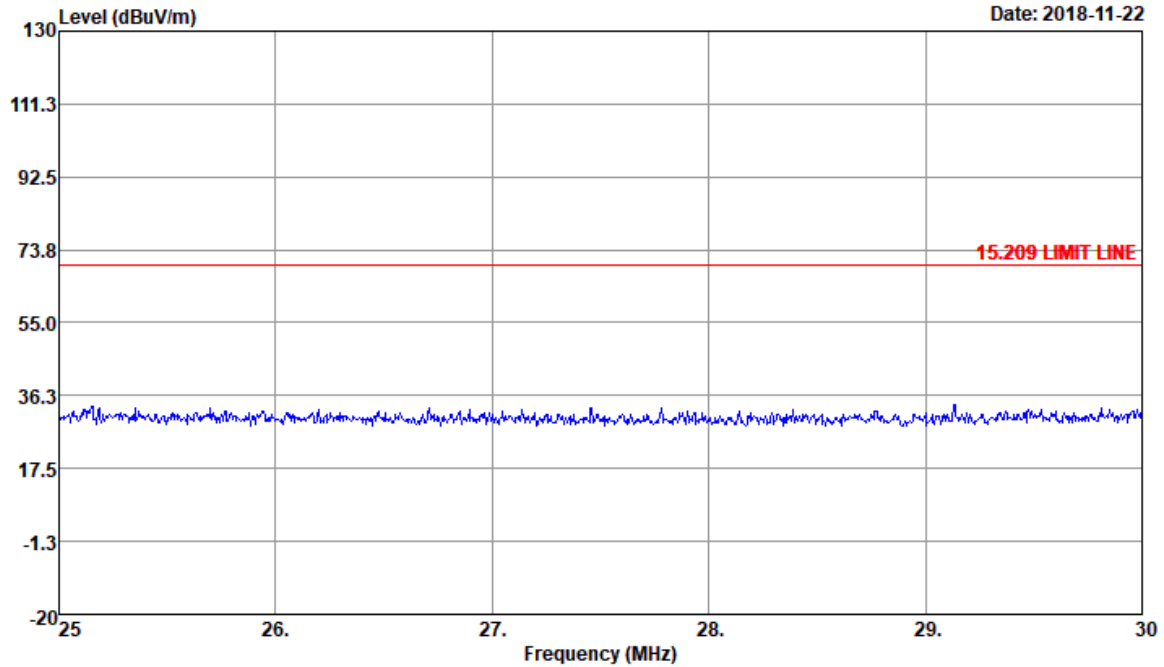
Data: 70



Site : 03CH01-SZ  
Condition : 15.209 LIMIT LINE 3m LOOP ANT\_1806 HORIZONTAL  
: RBW:9.000KHz VBW:27.000KHz  
FCC :

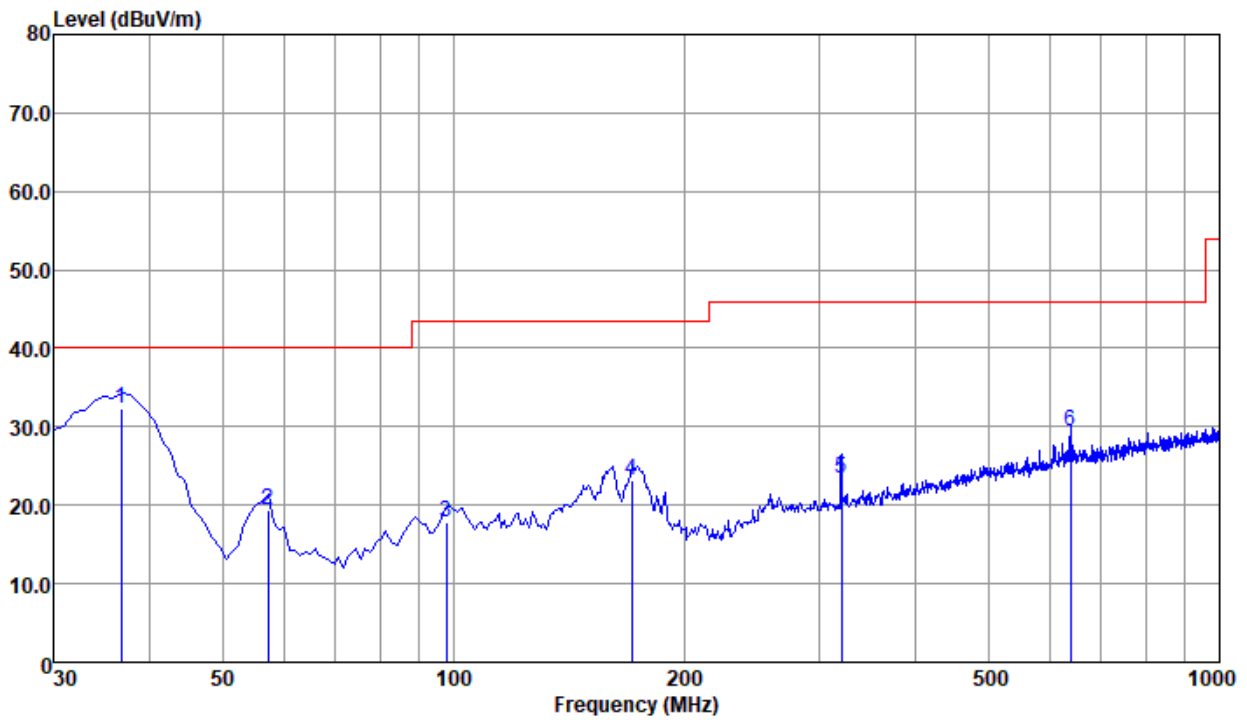


Data: 73



Site : 03CH01-SZ  
Condition : 15.209 LIMIT LINE 3m LOOP ANT\_1806 HORIZONTAL  
: RBW:9.000KHz VBW:27.000KHz  
FCC :

30M~1GHz



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	pp	36.79	32.34	-7.66	40.00	43.26	20.34	0.34	31.60 QP
2		57.16	19.39	-20.61	40.00	37.58	12.91	0.50	31.60 QP
3		97.90	17.91	-25.59	43.50	32.28	16.30	0.83	31.50 QP
4		170.65	23.14	-20.36	43.50	37.45	15.58	1.43	31.32 QP
5		321.00	23.45	-22.55	46.00	32.72	19.71	2.12	31.10 QP
6		638.19	29.37	-16.63	46.00	32.80	24.65	3.12	31.20 QP

**NOTES:**

1. All measurements were recorded using a spectrum analyzer employing a quasi-peak detector for emissions below 960MHz.
2. Both Vertical and Horizontal polarities of the receive antenna were evaluated with the worst case emissions being reported. Below 30MHz the Loop antenna was positioned in 3 separate radials.
3. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
4. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
5. Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain). The reading level is calculated by software which is not shown in the sheet.

**The result of the measurement is passed.**



## 5.4 Frequency Stability

### 5.4.1 Test Setup

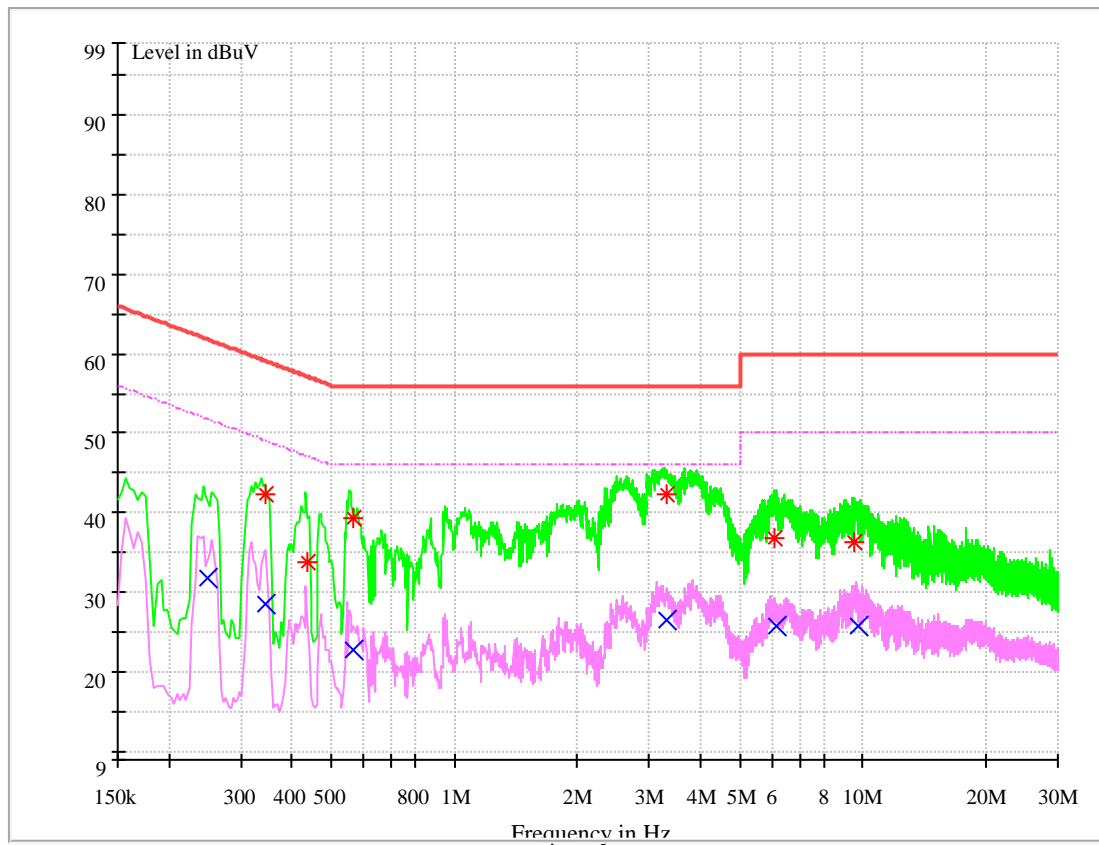
The EUT was placed in a Climatic Chamber. A small whip antenna was placed close to the EUT, and connected to the measuring Spectrum Analyzer. Measurement performed without modulation on TX.

### 5.4.2 Test Result

VOLTAGE (%)	POWER Battery	TEMP (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100%		-20	13559982	-18	-0.00013274336
100%		-10	13559985	-15	-0.00011061947
100%		0	13560015	15	0.00011061947
100%		10	13560013	13	0.00000958702
100%		20	13560008	8	0.00005899705
100%		30	13560018	18	0.00013274336
100%		40	13560012	12	0.00000884956
100%		50	13559982	-18	-0.00013274336
Battery End Point		3.6	20	13560014	16
115%	4.35	20	13559987	-13	-0.00000958702

The result of the measurement is passed.





MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dB $\mu$ V	Limit dB $\mu$ V	Transd dB	Margin dB	Line	PE
0.344580	42.34	N	9.7	16.75	59.09	FLO
0.436228	33.78	L1	9.7	23.35	57.13	FLO
0.564266	39.43	L1	9.7	16.57	56.00	FLO
3.305241	42.32	L1	9.7	13.68	56.00	FLO
6.106590	36.85	L1	9.7	23.15	60.00	FLO
9.509814	36.37	L1	9.7	23.63	60.00	FLO

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dB $\mu$ V	Limit dB $\mu$ V	Transd dB	Margin dB	Line dB $\mu$ V	PE
0.247562	31.86	L1	9.7	19.98	51.84	FLO
0.344575	28.60	L1	9.7	20.49	49.09	FLO
0.567771	22.89	L1	9.7	23.11	46.00	FLO
3.307960	26.47	L1	9.7	19.53	46.00	FLO
6.123200	25.77	L1	9.7	24.23	50.00	FLO
9.746123	25.70	L1	9.7	24.30	50.00	FLO

Note:

1, Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain)

The reading level is calculated by software which is not shown in the sheet.

2, Margin=Limit – Level

The result of the measurement is passed.

## 6 MAIN TEST INSTRUMENTS

### 6.1 Test Location 1:

Main Test Equipments( RSE test system)					
Equipment Name	Manufacturer	Model	Serial Number	Cal Date	Cal- Due
Test receiver	R&S	ESU26	100387	2018/1/20	2019/1/19
Spectrum analyzer	R&S	FSU3	200474	2018/1/20	2019/1/19
LOOP Antennas(9kHz-30MHz)	R&S	HFH2-Z2	100262	2017/4/25	2019/4/25
Trilog Broadband Antenna (30M~3GHz)	SCHWARZBECK	VULB 9163	9163-490	2017/3/29	2019/3/29
Trilog Broadband Antenna (30M~3GHz)	SCHWARZBECK	VULB 9163	9163-521	2017/4/9	2019/4/9
Artificial Main Network	R&S	ENV4200	100134	2018/5/8	2019/5/7
Line Impedance Stabilization Network	R&S	ENV216	100382	2018/5/8	2019/5/7
Software Information					
Test Item	Software Name		Manufacturer	Version	
RSE	EMC32		R&S	V8.40.0	

Main Test Equipments( CE test system)					
Equipment Name	Manufacturer	Model	Serial Number	Cal Date	Cal-Due
Test receiver	R&S	ESCI	101163	2018/01/20	2019/01/19
Line Impedance Stabilization Network	R&S	ENV216	100382	2018/05/08	2019/05/07
Software Information					
Test Item	Software Name		Manufacturer	Version	
CE	EMC32		R&S	V9.25.0	

### 6.2 Sub-contracted Test Location 1:

Sub-contracted Test Location 1 :Main Test Equipments					
Equipment Name	Manufacturer	Model	Serial Number	Cal Date	Cal- Due
EMI Test Receiver&SA	Agilent	N9038A	N9038A	2018/8/30	2019/8/29
Loop Antenna	R&S	HFH2-Z2	HFH2-Z2	2018/5/30	2020/5/29
Bilog Antenna	TeseQ	CBL6112D	CBL6112D	2018/6/5	2019/6/4
LF Amplifier	Burgeon	BPA-530	BPA-530	2018/4/20	2019/4/19
Software Information					
Test Item	Software Name		Manufacturer	Version	
RE	E3		AUDIX	6.2009-8-24(sporton)	

## 7 System Measurement Uncertainty

For a 95% confidence level ( $k = 2$ ), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

Test Item		Extended Uncertainty
All Emissions, Radiated	Field Strength [dB $\mu$ V/m]	For 3 m Chamber: U = 4.8 dB (30 MHz-1 GHz)
AC Power Line Conducted Emissions	Disturbance Voltage[dB $\mu$ V]	U=2.3 dB

-----The END-----