



FCC RF Test Report

Product Name: Smart Phone

Model Number: ELE-L29/ELE-L09

Report No.: SYBH(Z-RF)20190117023001-2005

FCC ID: QISELE-LX9

	APPROVED	PREPARED		
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DATE	2019-02-26	2019-02-26		

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MODIFICATION RECORD

No.	Report No	Modification Description	
1	SYBH(Z-RF)20181114019001-	First release.	
	2005		
2	SYBH(Z-RF)20190117023001-	(1) Updated the version of the board, and added some tests	
	2005	according to differences and modifications of the new version,	
		please see General Description for details:	
		Note 1: The history report(s) should be withdrawn;	
		☐ The history report(s) are still valid.	

DECLARATION

Туре	Description				
Multiple	☐ The present report applies to single model.				
Models					
Applications	performed with the model <u>ELE-L29</u>				
	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				
	All others between these models are identical.				
	The present report only presents the worst test case of all modes, see relevant test				
	results for detailed.				



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2 **General Information**

2.1 Test standard/s

	47 CFR FCC Part 2, Subpart J
Applied Rules :	47 CFR FCC Part 15, Subpart C
	47 CFR FCC Part 15, Subpart E
	FCC KDB 789033 D02 General UNII Test Procedures New Rules v02
	FCC KDB 558074 D01 DTS Meas Guidance v05r01
Test Method :	FCC KDB 662911 D01 Multiple Transmitter Output v02r01
	ANSI C63.10-2013, American National Standard for Testing Unlicensed
	Wireless Devices

2.2 Test Environment

Temperature :	TN	15 to 30	°C d	uring room temperature tests
Ambient Relative Humidity:	20 to	85 %		
Atmospheric Pressure:	Not app	licable		
	VL	3.6	V	
Power supply :	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.

2.3 Test Laboratories

Test Location 1 :	RELIABILITY LABORATORY OF HUAWEI TECHNOLOGIES CO.,
rest Location 1.	LTD.
Address of Test Location 1:	No.2 New City Avenue Songshan Lake Sci. &Tech. Industry Park,
Address of Test Location 1.	Dongguan, Guangdong, P.R.C



2.4 Applicant and Manufacturer

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

2.5 Application details

Date of Receipt Sample:	2019-01-30
Start of test:	2019-02-01
End of test:	2019-02-26

3 Test Summary

3.1 Measurement Technical Requirements

3.1.1 U-NII (5150-5250, 5250-5350, 5470-5725 MHz, 5725-5850)

Test Item	Band	FCC Rule No.	Requirements	Test Result	Verdict
	5150-5250	15.403(i) 15.407(a)(1)	No limit.		Refer to No. SYBH(Z-RF)20181114 019001-2005
Emission	5250-5350	15.403(i) 15.407(a)(2)		Appendix	
Bandwidth	5470-5725	15.403(i) 15.407(a)(2)		A1&A2	
	5725-5850	15.403(i) 15.407(e)	≥ 500 kHz.		
	5150-5250	KDB 789033 D02 § D	No limit.	Appendix B	Refer to No. SYBH(Z-RF)20181114 019001-2005
Occupied	5250-5350				
Bandwidth	5470-5725				
	5725-5850				
Duty Cycle	5150-5850	KDB 789033 D02 § B	No limit.	Appendix C	Refer to No. SYBH(Z-RF)20181114
Maximum	5150-5250	15.407(a)(1)	FCC:	Appendix D	019001-2005



Test Item	Band	FCC Rule No.	Requirements	Test Result	Verdict
Output Power		15.407(a)(4)	conducted < 250mW		
1 OWEI			(avg during transmission)		
	5250-5350	15.407(a)(2) 15.407(a)(4)	FCC:conducted <min{250mw,11dbm+10*lg(ebw)} (avg="" during="" td="" transmission)<=""><td></td><td></td></min{250mw,11dbm+10*lg(ebw)}>		
	5470-5725	15.407(a)(2) 15.407(a)(4)	FCC: conducted <min{250mw,11dbm+10*lg(ebw)} (avg="" during="" td="" transmission)<=""><td></td><td></td></min{250mw,11dbm+10*lg(ebw)}>		
	5725-5850	15.407(a)(3)	conducted < 1W (avg during transmission)		
	5150-5250	15.407(a)(1) 15.407(a)(4)	FCC conducted <11dBm/MHz (avg during transmission)		
maximum Power	5250-5350	15.407(a)(2) 15.407(a)(4)	conducted <11dBm/MHz (avg during transmission)	Appendix E	
Spectral Density	5470-5725	15.407(a)(2) 15.407(a)(4)	conducted <11dBm/MHz (avg during transmission)		
	5725-5850	15.407(a)(3) 15.407(a)(4)	conducted <30dBm/500KHz (avg during transmission)		
Frequency Stability	5150-5250 5250-5350 5470-5725 5725-5850	15.407(g)	FCC Part 15.407(g)	Appendix F	Refer to No. SYBH(Z-RF)20181114 019001-2005

Note1: 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

Note2: We do not test 5G WIFI of after change of ELE-L29/ELE-L09 in this report, all test data can refer to No.

SYBH(Z-RF)20181114019001-2005 of before change of ELE-L04



4 Description of the Equipment under Test (EUT)

4.1 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 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 mobile phone ELE-L29/ELE-L09 is LTE/UMTS/GSM mobile phone with Bluetooth. The differences between before change of ELE-L29/ELE-L09 and after change of ELE-L29/ELE-L09 are showed in the following table.

	Before change of ELE-L29/ELE-L09	After change of ELE-L29/ELE-L09	
GSM four	B2/B3/B5/B8	B2/B3/B5/B8	
WCDMA	B1/2/4/5/6/8/19	B1/2/4/5/6/8/19	
bands			
LTE bands	FDD LTE: B1/2/3/4/5/6/7/8/9/12/17/18/19/20/ B26/28/32 TDD LTE:	FDD LTE: B1/2/3/4/5/6/7/8/9/12/17/18/19/20/ B26/28/32 TDD LTE:	
	B34/B38/39/40/41(120M,2535-2655)	B34/B38/39/40/41(120M,2535-2655)	
SIM card	the same	the same	
NFC	the same	the same	
External camera	the same	the same	



internal camera	the same	the same	
FLASH	the same	the same	
Mainboard	the same	the same	
PCB layout	the same	the same	
Appearance	the same	the same	
Bluetooth mode	the same	the same	
WLAN mode	the same	the same	
BT/ WLAN	the come	the same	
antenna	the same		
GSM/ WCDMA	the come	The come	
/LTE antenna	the same	The same	
Adapter	the same	the same	
Battery	the same	the same	
Optional	None	Wireless charging protective case	
accessories	None		
Chipset	the same	the same	
Memory	the same	the same	
DE Doromotor	The same RF Parameter in the same	The same RF Parameter in the same band	
RF Parameter	band		
Dimension	the same	the same	
Main Frequency	The same NV in the same band		
NV	The same IVV in the same band	The same NV in the same band	

Note1: Only 5G WIFI test data included in this report.

Note2: We do not test 5G WIFI of after change of ELE-L29/ELE-L09 in this report, all test data can refer to No. SYBH(Z-RF)20181114019001-2005 of before change of ELE-L29/ELE-L09.



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	5.0.1.78 (C432E78R1P6log)	HL1ELLEM	

4.2.2 Sub-Assembly

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



4.2.3 Wireless charging case

Wireless charging case	C-ELE Wireless charging case
Manufacturer	Huawei Technologies Co., Ltd.
Wireless charging power	10W max
Connector rating	5A max
Rated operating voltage	9V
Charging efficiency	>75%
Operating temperature	-10 °C~40 °C
Storage temperature	-40 °C~70°C



4.3 Technical Description

Characteristics	Description			
IEEE 802.11	802.11a (20 MHz channel bandwidth) , 802.11n (20 MHz channel bandwidth),			
WLAN Mode	⊠ 802.11n (40 MHz channel bandwidth),			
Supported	bandwidth),			
	l	③ 802.11ac (40 MHz channel bandwidth), ⊠ 802.11ac (80 MHz channel		
	bandwidth),	,, <u> </u>		
	l ′	0 MHz channel bandwidth),		
TX/RX Operating	All	fc = 5000 MHz + N * 5 MHz, where:		
Range		- fc = "Operating Frequency" in MHz,		
		- N = "Channel Number".		
	5150-5250	N = 36 to 48 with step of 4 for the 20 MHz channel bandwidth.		
	MHz (U-NII)	N = 38 to 46 with step of 8 for the 40 MHz channel bandwidth.		
	,	N = 42 for the 80 MHz channel bandwidth.		
		N = 50 for the 160 MHz channel bandwidth		
	5250-5350	N = 52 to 64 with step of 4 for the 20 MHz channel bandwidth.		
	MHz (U-NII)	N = 54 to 62 with step of 8 for the 40 MHz channel bandwidth.		
		N = 58 for the 80 MHz channel bandwidth.		
	5470-5600	N = 100 to 116 with step of 4 for the 20 MHz channel bandwidth.		
	MHz	N = 102 to 110 with step of 8 for the 40 MHz channel bandwidth.		
	(U-NII)(for	N = 106 for the 80 MHz channel bandwidth.		
	ISED)			
	5470-5650	N = 100 to 128 with step of 4 for the 20 MHz channel bandwidth.		
	MHz (U-NII)	N = 102 to 126 with step of 8 for the 40 MHz channel bandwidth.		
	(for FCC)	N = 106 to 122 with step of 16 for the 80 MHz channel bandwidth		
		N = 114 for the 160 MHz channel bandwidth.		
	5650-5725	N = 132 to 140 with step of 4 for the 20 MHz channel bandwidth.		
	MHz (U-NII)	N = 134 to 134 with step of 8 for the 40 MHz channel bandwidth		
	5725-5850MH	N = 149 to 165 with step of 4 for the 20 MHz channel bandwidth.		
	z(U-NII)	N = 151 to 159 with step of 8 for the 40 MHz channel bandwidth.		
		N = 155 for the 80 MHz channel bandwidth.		
Modulation Type	802.11a: BPSK/	QPSK/16QAM/64QAM (OFDM).		
	802.11n: BPSK/	QPSK/16QAM/64QAM (OFDM).		
	802.11ac: BPSK/QPSK/16QAM/64QAM			
Emission	17M2G7D (for 802.11a mod),			
Designator	U-NII(5150-52	18M0G7D (for 802.11n 20 MHz mode),		
	50, 5250-5350,	36M6G7D (for 802.11n 40 MHz mode),		
	5470-5725,	18M0G7D (for 802.11ac 20 MHz mode)		
	5725-5850)	36M7G7D (for 802.11ac 40 MHz mode)		
		75M5G7D (for 802.11ac 80 MHz mode)		
		156MG7D (for 802.11ac 160 MHz mode)		



Characteristics	Description		
TX Power Control	☐ Supported,		
(TPC)			
Equipment Type		equipment, Plug-in radio device, Combined equipment	
Antenna	Description	Isotropic Antenna	
	Туре		
		☐ External	
		☐ Dedicated	
	Ports		
	Smart System	⊠SISO (for 802.11a/n/ac),	
		⊠CDD (for 802.11a), 2 Tx & 2 Rx,	
		⊠MIMO (for 802.11a/ac), 2 Tx & 2 Rx,	
		☐ Diversity (for 802.11a/n/ac) : Tx & Rx	
	Gain	Ant1:-2.12dBi (per antenna port, max.)	
		Ant2:-2.07dBi (per antenna port, max.)	
	Remark	When the EUT is put into service, the practical maximum antenna	
		gain should NOT exceed the value as described above.	
Power Supply	Туре	☐ External DC mains,	
		⊠ Battery,	
		☐ AC/DC Adapter,	
		Powered over Ethernet (PoE).	
		☐ Other	



5 General Test Conditions / Configurations

5.1 Test Modes

NOTE: Worst cases for each IEEE 802.11 mode are selected to perform tests.

Test Mode	Test Modes Description
11A	IEEE 802.11a with data rate of 6 Mbps using SISO mode.
11N20	IEEE 802.11n with data date of MCS0 and bandwidth of 20 MHz using SISO mode.
11N20m	IEEE 802.11n with data date of MCS8 and bandwidth of 20 MHz using MIMO mode.
11N40	IEEE 802.11n with data date of MCS0 and bandwidth of 40 MHz using SISO mode.
11N40m	IEEE 802.11n with data date of MCS8 and bandwidth of 40 MHz using MIMO mode.
11AC20	IEEE 802.11ac with data date of MCS0 and bandwidth of 20 MHz using SISO mode.
11AC20m	IEEE 802.11ac with data date of MCS8 and bandwidth of 20 MHz using SISO mode.
11AC40	IEEE 802.11ac with data date of MCS0 and bandwidth of 40 MHz using SISO mode.
11AC40m	IEEE 802.11ac with data date of MCS8 and bandwidth of 40 MHz using MIMO mode.
11AC80	IEEE 802.11ac with data date of MCS0 and bandwidth of 80 MHz using SISO mode.
11AC80m	IEEE 802.11ac with data date of MCS8 and bandwidth of 80 MHz using MIMO mode.
11AC_160	IEEE 802.11ac with data date of MCS0 and bandwidth of 160 MHz using SISO mode.
11AC_160m	IEEE 802.11ac with data date of MCS8 and bandwidth of 160 MHz using MIMO mode.

5.2 EUT Configurations

5.2.1 General Configurations

Configuration	Description	
Test Antenna Ports	Until otherwise specified,	
	All TX tests are performed at all TX antenna ports of the EUT, and	
	All RX tests are performed at all RX antenna ports of the EUT.	
Multiple RF Sources	Other than the tested RF source of the EUT, other RF source(s) are disabled or shutdown	
	during measurements.	

5.2.2 Customized Configurations

Test Mode	Power Level Setting defined by Manufacturer		Duty cycle [%]	
	ANT1	ANT2	ANT1	ANT2
11A	CH36:10	CH36:10	99.63	99.60
	CH64/ 100: 10	CH64/ 100: 10		
	CH140:9	CH140:9		
	CH149- CH165:10	CH149- CH165:10		
	Others: 15.5	Others: 15		
11A _CDD	CH36/64/100:13		99.63	99.63



Test Mode		Power Level Setting defined by Manufacturer		ycle [%]
		40: 12		
		CH165:13		
		s: 18.3		
11N_20M_SISO	CH36:10	CH36:10	99.57	99.60
	CH64/ 100: 10	CH64/ 100: 10		
	CH140:9	CH140:9		
	CH149-165:10	CH149- CH165:10		
	Others: 15.5	Others: 15		
11N_40M_SISO	CH38/60/102/134:8	CH38/60/102/134:8	99.17	99.17
	CH151:10	CH151:10		
	CH159:10	CH159:10		
	Others: 15	Others: 14.5		
11N_20M_MIMO	CH36/64	4/100:13	97	97.3
	CH14	10: 12		
	CH149- (CH165:13		
	Others	s: 18.3		
11N_40M_MIMO	CH38/60/1	102/134:11	98.38	98.38
	CH1	51:13		
	CH1	59:13		
	Others	s: 17.8		
11AC_20M_SISO	CH36:10	CH36:10	99.60	99.57
	CH64/ 100: 10	CH64/ 100: 10		
	CH140:9	CH140:9		
	CH149-165:10	CH149-165:10		
	Others: 15.5	Others: 15		
11AC_20M_MIMO	CH36/64	4/100:13	99.57	99.60
	CH14	10: 12		
	CH149- (CH165:13		
	Others	s: 18.3		
11AC_40M_SISO	CH38/60/102/134:8	CH38/60/102/134:8	99.17	99.22
	CH151:10	CH151:10		
	CH159:10	CH159:10		
	Others: 15	Others: 14.5		
11AC_40M_MIMO	CH38/60/1	102/134:11	99.17	99.22
	CH1	51:13		
	CH1	59:13		
	Others	s: 17.8		
11AC_80M_SISO	CH155: 10	CH155: 10	98.26	98.26
	Others: 8	Others: 8		
11AC_80M_MIMO		55: 13	98.26	98.26
	Othe	rs: 11		



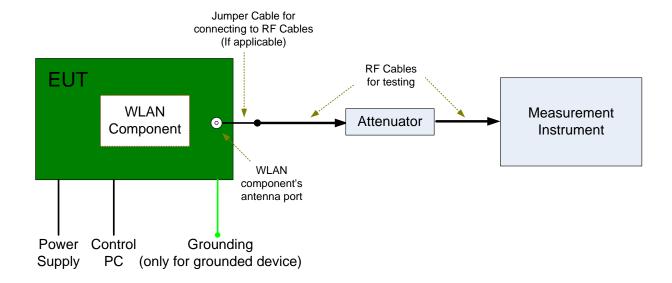
Test Mode	Power Level Setting defined by Manufacturer		Duty cycle [%]	
11AC_160M_SISO	7.5	7	97.85	97.71
11AC_160M_MIMO	10	0.3	97.71	97.71



5.3 Test Setups

5.3.1 Test Setup 1

The WLAN component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.

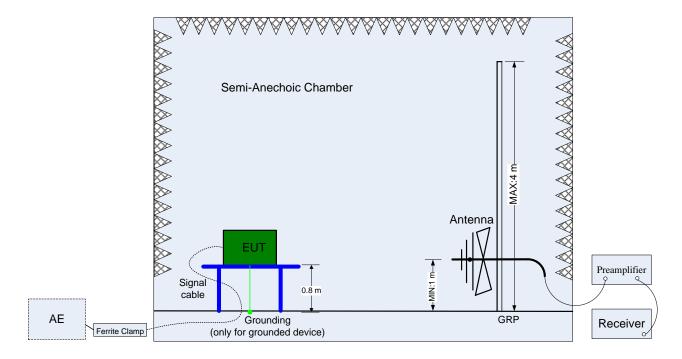


5.3.2 Test Setup 2

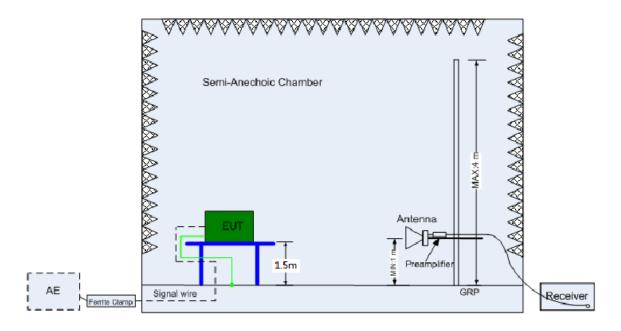
The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.4. The test distance is 3 m (for 30 MHz to 26.5 GHz) or 1 m (for 26.5 GHz to 40 GHz). The setup is according to ANSI C63.10, ANSI C63.4 and CAN/CSA-CEI/IEC CISPR 22.

The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).





(Below 1 GHz)



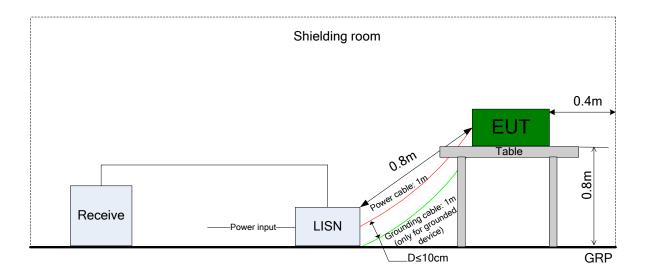
(Above 1 GHz)



5.3.3 Test Setup 3

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.





5.4 Test Conditions

T+ 0	Tast Can ditions	
Test Case	Test Conditions	
	Configuration	Description
Emission	Meas. Method	FCC KDB 789033 D02 §C).
Bandwidth	Test Env.	TN/VN
(EBW)	Test Setup	Test Setup 1
	EUT Conf.	All EUT conf. with Tx modes.
Occupied	Meas. Method	FCC KDB 789033 D02 §D).
Bandwidth	Test Env.	TN/VN
(OBW)	Test Setup	Test Setup 1
	EUT Conf.	All EUT conf. with Tx modes.
Maximum	Meas. Method	FCC KDB 789033 D02 §E)2)b) Method SA-1 and d) Method SA-2.
Conducted	Test Env.	TN/VN
Output Power	Test Setup	Test Setup 1
	EUT Conf.	All EUT conf. with Tx modes.
Maximum	Meas. Method	FCC KDB 789033 D02 §F).
Power	Test Env.	TN/VN
Spectral	Test Setup	Test Setup 1
Density	EUT Conf.	All EUT conf. with Tx modes.
	Meas, Method	15.407(g)
	Meas. Method	Frequence Stability
Frequency	Test Env.	(1) -30 °C to +50 °C with step 10 °C at Rated Voltage;
Stability	165t Ellv.	(2) VL, VN and VH of Rated Voltage at Ambient Climate.
	Test Setup	Test Setup 1
	EUT Conf.	Ch.36,Ch.165



6 Main Test Instruments

6.1 History Test Project/Report

Refer to No. SYBH(Z-RF)20181114019001-2005

7 <u>Measurement Uncertainty</u>

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
Transmit Output Power Data	Power [dBm]	U = 0.58 dB
RF Power Density, Conducted	Power [dBm]	U = 0.64 dB
Bandwidth	Magnitude [kHz]	20MHz: U=41.78kHz
		40MHz: U=82.12kHz
		80MHz: U=163.5kHz
Band Edge Compliance	Disturbance Power [dBm]	U = 0.9 dB
Spurious Emissions, Conducted	Disturbance Power [dBm]	20MHz~3.6GHz: U=0.88dB
		3.6GHz~8.4GHz: U=1.08dB
		8.4GHz~13.6GHz: U=1.24dB
		13.6GHz~22GHz: U=1.34dB
		22GHz~26.5GHz: U=1.36dB
Frequency Stability	Frequency Accuracy [Hz]	U=82.24Hz
Duty Cycle	Duty Cycle [%]	U=±2.06 %

END