

Prüfbericht-Nr.: <i>Test Report No.:</i>	50089521 001	Auftrags-Nr.: <i>Order No.:</i>	164096020	Seite 1 von 40 <i>Page 1 of 40</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	08.06.2017	
Auftraggeber: <i>Client:</i>	Lightcomm Technology Co., Ltd. RM 1808 18F, FO TAN INDUSTRIAL CENTRE, NOS. 26-28 AU PU1 WAN STREET, FO TAN SHATIN NEW TERRITORIES, HONGKONG			
Prüfgegenstand: <i>Test item:</i>	Insignia Flex Window 10" Tablet with Keyboard			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	NS-P10W8100, NS-P10W8100-C, xxxxxxxP10W81xxxxxx, NB1028-IJ (x=0-9, A-Z, a-z, - or blank, for market purpose only) (Trademark: INSIGNIA)			
Auftrags-Inhalt: <i>Order content:</i>	FCC/IC Certification			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 RSS-247 Issue 2 February 2017 RSS-Gen Issue 4 November 2014			
Wareneingangsdatum: <i>Date of receipt:</i>	08.06.2017			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000561697-001 to 003			
Prüfzeitraum: <i>Testing period:</i>	16.06.2017 - 10.07.2017			
Ort der Prüfung: <i>Place of testing:</i>	EMTEK (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by: <i>Alex Lan</i>		kontrolliert von / reviewed by: <i>Owen Tian</i>		
12.07.2017	Alex Lan / Project Engineer	Datum Date	Name / Stellung Name / Position	Unterschrift Signature
12.07.2017	Owen Tian/Technical Certifier	Datum Date	Name / Stellung Name / Position	Unterschrift Signature
Sonstiges / Other: FCC ID: XMF-NB1028 IC: 20064-NB1028 HVIN: NS-P10W8100				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(pass) = entspricht o.g. Prüfgrundlage(n) F(fail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(pass) = passed a.m. test specification(s) F(fail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 PEAK OUTPUT POWER

RESULT: Pass

5.1.3 20dB BANDWIDTH AND 99% BANDWIDTH

RESULT: Pass

5.1.4 6dB BANDWIDTH AND 99% BANDWIDTH

RESULT: Pass

5.1.5 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100kHz BANDWIDTH

RESULT: Pass

5.1.6 POWER SPECTRAL DENSITY

RESULT: Pass

5.1.7 SPURIOUS EMISSION

RESULT: Pass

5.1.8 FREQUENCY SEPARATION

RESULT: Pass

5.1.9 NUMBER OF HOPPING FREQUENCY

RESULT: Pass

5.1.10 TIME OF OCCUPANCY

RESULT: Pass

5.1.11 CONDUCTED EMISSIONS

RESULT: Pass

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendixes:

Appendix A: Test data of Bluetooth.

2. Test Sites

2.1 Test Facilities

EMTEK (Shenzhen) Co., Ltd.

(FCC Registration No.: 709623)

(Test site Industry Canada No.: 4480A-2)

Bldg 69, Majialong Industry Zone, Nanshan District,
Shenzhen, Guangdong, P.R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Transmitter spurious emissions				
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	2018-05-20
Loop Antenna	Schwarzbeck	FMZB 1519	1519-012	2018-05-20
Cable	H+B	3M SF104-26.5	295838/4	2018-05-21
Cable	H+B	6M SF104-26.5	295840/4	2018-05-21
Pre-Amplifier	HP	8447F	2944A07999	2018-05-20
Bilog Antenna	Schwarzbeck	VULB9163	142	2018-05-21
Cable	Schwarzbeck	AK9513	ACRX1	2018-05-20
Cable	Rosenberger	N/A	FP2RX2	2018-05-20
Cable	Schwarzbeck	AK9513	CRPX1	2018-05-21
Cable	Schwarzbeck	AK9513	CRRX2	2018-05-21
Pre-Amplifier	A.H.	PAM-0126	1415261	2018-05-20
Horn Antenna	Schwarzbeck	BBHA 9120	707	2018-05-21
Pre-Amplifier	A.H.	PAM-0126	1415261	2018-05-20
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA91703 99	2018-05-20
EMI Test Receiver	Rohde & Schwarz	FSV40	132.1- 3008K39- 100967-AP	2018-05-20
Pre-Amplifier	Lunar EM	LNA26G40-40	J101313102 8001	2018-05-20
Horn Antenna	AHS/USA	SAS-573	184	2018-05-20
Cable	H+B	0.5M SF104- 26.5	289147/4	2018-05-20
Cable	H+B	3M SF104-26.5	295838/4	2018-05-20
Cable	H+B	6M SF104-26.5	295840/4	2018-05-20
Radio Spectrum Test				
EMI Test Receiver	Rohde & Schwarz	ESCI	101045	2018-05-21
Vector Signal Generater	Agilent	N5182B	My53050553	2018-05-20
Analog Signal Generator	Agilent	N5171B	My53050878	2018-05-20
Signal Analyzer	Agilent	N9010A	My53470879	2018-05-21
Power Meter	Agilent	PS-X10-100	N/A	2018-05-21
Temp. / Humidity Chamber	Kingson	THS-M1	242	2018-05-20
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCI	26115-010- 0027	2018-05-20
L.I.S.N.	Rohde & Schwarz	ENV216	101161	2018-05-20
50Ω Coaxial Switch	Anritsu	MP59B	6100175589	2018-05-21
Voltage Probe	Rohde & Schwarz	ESH2-Z3	100122	2018-05-21

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
Maximum Peak Output Power Test	$\pm 1.0 \text{dB}$
Conducted Emissions Test	$\pm 2.0 \text{dB}$
Radiated Emission Test	$\pm 2.0 \text{dB}$
Power Density	$\pm 2.0 \text{dB}$
Occupied Bandwidth Test	$\pm 1.0 \text{dB}$
Band Edge Test	$\pm 3 \text{dB}$
All emission, radiated	$\pm 3 \text{dB}$
Antenna Port Emission	$\pm 3 \text{dB}$
Temperature	$\pm 0.5^\circ\text{C}$
Humidity	$\pm 3\%$

2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

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2.7 Status of Facility Used for Testing

EMTEK (Shenzhen) Co., Ltd. test facility located at Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUTs are window 10" tablet with Wi-Fi, Bluetooth function.

All models are identical except the model name.

The EUTs have two antennas, two antennas cannot transmitter simultaneously.

For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of Bluetooth (BDR & EDR mode)

Technical Specification	Value
Kind of Equipment	10" Flex Windows Tablet with Detachable Keyboard
Type Designation	NS-P10W8100, NS-P10W8100-C, xxxxxxxP10W81xxxxxxxx, NB1028-IJ (x=0-9, A-Z, a-z, - or blank, for market purpose only)
FCC ID	XMF-NB1028
IC	20064-NB1028
HVIN	NS-P10W8100
Operating Frequency band	2402 – 2480MHz
Channel separation	1MHz
Extreme Temperature Range	0~+45°C
Operation Voltage	DC 3.7V, 6180mAh via built-in lithium-ion battery DC 5V via AC/DC adapter
Modulation	FHSS, GFSK, 8DPSK, π/4DQPSK
Bluetooth version	Bluetooth 4.2, Dual Mode
Antenna Gain	2.83 dBi

Table 4: RF channel and frequency of Bluetooth (BDR & EDR mode)

RF Channel	Frequency (MHz)						
0	2402.00	21	2423.00	42	2444.00	63	2465.00
1	2403.00	22	2424.00	43	2445.00	64	2466.00
2	2404.00	23	2425.00	44	2446.00	65	2467.00
3	2405.00	24	2426.00	45	2447.00	66	2468.00
4	2406.00	25	2427.00	46	2448.00	67	2469.00
5	2407.00	26	2428.00	47	2449.00	68	2470.00
6	2408.00	27	2429.00	48	2450.00	69	2471.00
7	2409.00	28	2430.00	49	2451.00	70	2472.00
8	2410.00	29	2431.00	50	2452.00	71	2473.00

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9	2411.00	30	2432.00	51	2453.00	72	2474.00
10	2412.00	31	2433.00	52	2454.00	73	2475.00
11	2413.00	32	2434.00	53	2455.00	74	2476.00
12	2414.00	33	2435.00	54	2456.00	75	2477.00
13	2415.00	34	2436.00	55	2457.00	76	2478.00
14	2416.00	35	2437.00	56	2458.00	77	2479.00
15	2417.00	36	2438.00	57	2459.00	78	2480.00
16	2418.00	37	2439.00	58	2460.00		
17	2419.00	38	2440.00	59	2461.00		
18	2420.00	39	2441.00	60	2462.00		
19	2421.00	40	2442.00	61	2463.00		
20	2422.00	41	2443.00	62	2464.00		

Table 5: Technical Specification of Bluetooth (Low Energy mode)

Technical Specification	Value
Kind of Equipment	Insignia Flex Window 10" Tablet with Keyboard
Type Designation	NS-P10W8100, NS-P10W8100-C, xxxxxxxP10W81xxxxxxxx, NB1028-IJ (x=0-9, A-Z, a-z, - or blank, for market purpose only)
FCC ID	XMF-NB1028
IC	20064-NB1028
HVIN	NS-P10W8100
Operating Frequency band	2402 – 2480MHz
Channel separation	2MHz
Extreme Temperature Range	0~+45°C
Operation Voltage	DC 3.7V, 6800mAh via built-in lithium-ion battery DC 5V via AC/DC adapter
Modulation	GFSK
Bluetooth version	Bluetooth 4.2, Dual Mode
Antenna Gain	2.83 dBi

Table 6: RF channel and frequency of Bluetooth (Low Energy mode)

RF Channel	Frequency (MHz)						
0	2402.00	11	2424.00	22	2446.00	33	2468.00
1	2404.00	12	2426.00	23	2448.00	34	2470.00
2	2406.00	13	2428.00	24	2450.00	35	2472.00
3	2408.00	14	2430.00	25	2452.00	36	2474.00
4	2410.00	15	2432.00	26	2454.00	37	2476.00
5	2412.00	16	2434.00	27	2456.00	38	2478.00
6	2414.00	17	2436.00	28	2458.00	39	2480.00
7	2416.00	18	2438.00	29	2460.00		
8	2418.00	19	2440.00	30	2462.00		
9	2420.00	20	2442.00	31	2464.00		
10	2422.00	21	2444.00	32	2466.00		

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. Bluetooth mode (BDR & EDR mode)
 - a. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - 2. Bluetooth mode (Low Energy mode)
 - a. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
- B. Standby
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- | | |
|--------------------|----------------------|
| - Bill of Material | - Circuit Diagram |
| - PCB Layout | - Instruction Manual |
| - Photo Document | - Rating Label |

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

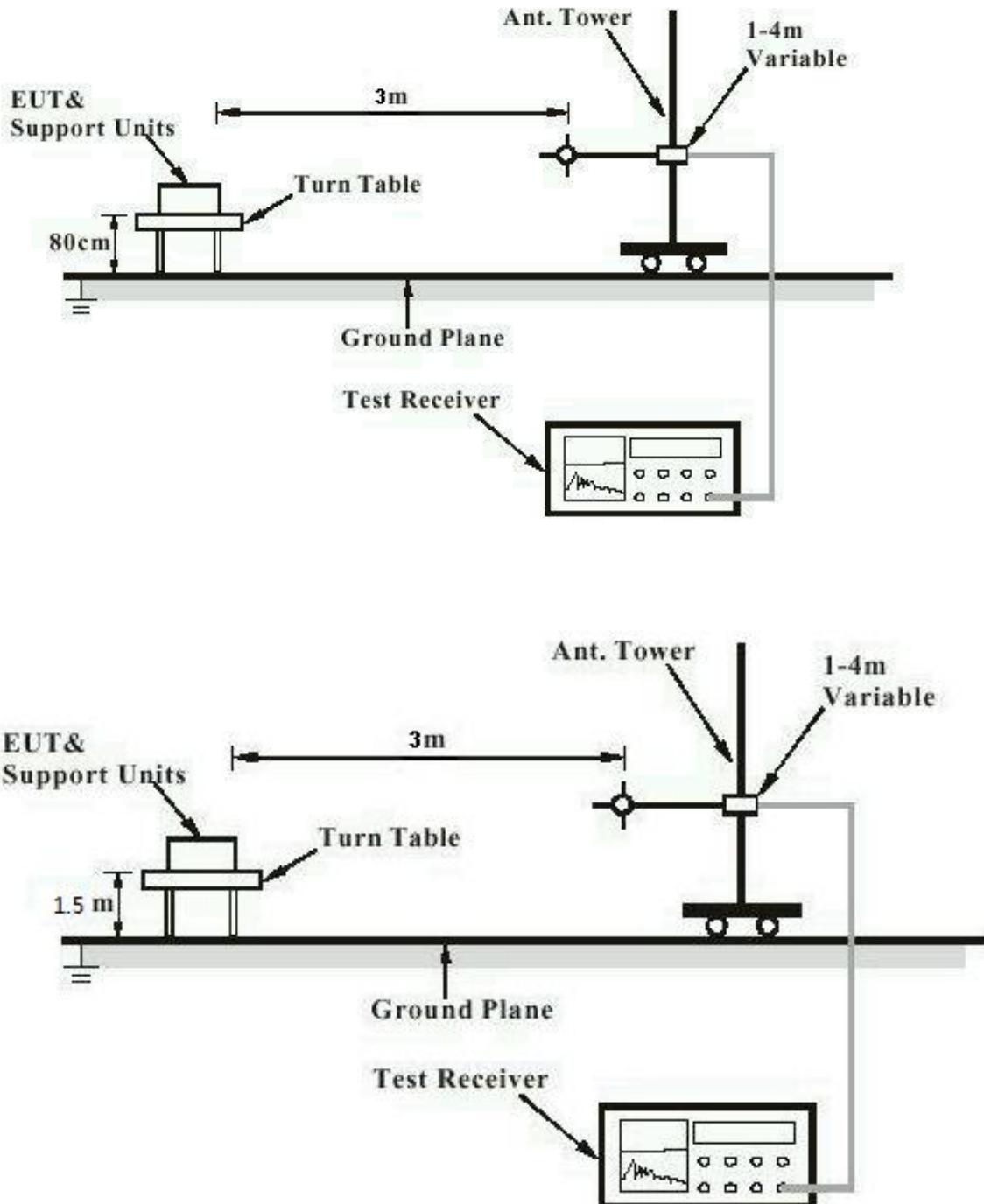
Description	Manufacturer	Part No.	Rating
AC/DC Adapter	SHENZHEN TEKA TECHNOLOGY CO., LTD.	TEKA024-0503000UK	Input: AC 100-240V, 50/60Hz, 0.7A; Output: DC 5V, 3.0A

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



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Diagram of Measurement Equipment Configuration for Conduction Measurement

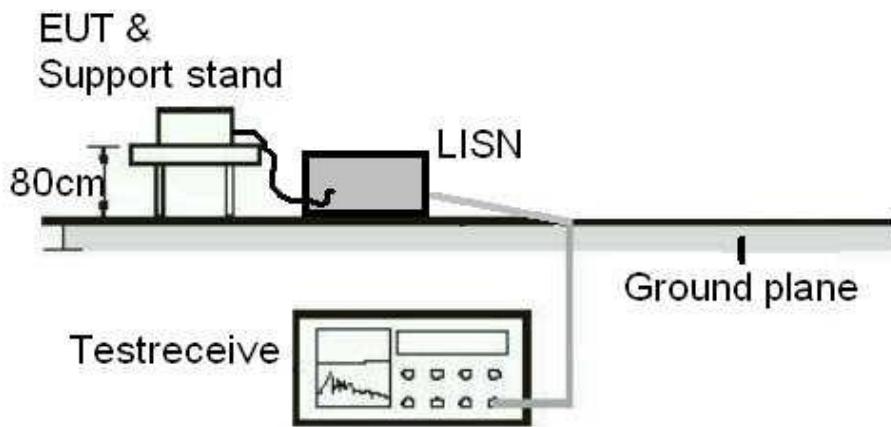
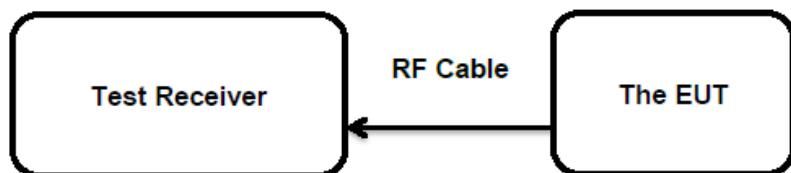


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: Pass

Test standard : FCC Part 15.247(b)(4) & FCC Part 15.203
RSS-Gen Clause 8.3
Limit : The use of antennas with directional gains that do not exceed 6dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 2.83 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Peak Output Power

RESULT:
Pass

Test date	:	2017-06-28
Test standard	:	FCC Part 15.247(b)(1) FCC Part 15.247(b)(3) RSS-247 clause 5.4(2) RSS-247 clause 5.4(4)
Basic standard	:	ANSI C63.10: 2013 Clause 9.1 of KDB 558074 v04
Limit	:	For FCC: FHSS<0.125W, DTSS<1W For IC: < 1 W (Maximum peak conducted output power) < 4 W (e.i.r.p.)
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1.a, A.2.a
Ambient temperature	:	25°C
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

Note: The max e.r.i.p is 5.296dBm less than 4W (36dBm).

Table 7: Test result of Peak Output Power of Bluetooth (BDR mode)

Channel	Channel Frequency (MHz)	Peak Output Power		Limit for FCC (W)	Limit for IC (W)
		(dBm)	(W)		
Low Channel	2402	2.466	0.00177	0.125	1
Middle Channel	2441	2.210	0.00166	0.125	1
High Channel	2480	1.935	0.00156	0.125	1

Table 8: Test result of Peak Output Power of Bluetooth (EDR mode)

Channel	Channel Frequency (MHz)	Peak Output Power		Limit for FCC (W)	Limit for IC (W)
		(dBm)	(W)		
Low Channel	2402	-0.821	0.00083	0.125	1
Middle Channel	2441	-1.081	0.00078	0.125	1
High Channel	2480	-1.368	0.00073	0.125	1

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*Test Report No.*Seite 16 von 40
Page 16 of 40**Table 9: Test result of Peak Output Power of Bluetooth (Low Energy mode)**

Channel	Channel Frequency (MHz)	Peak Output Power		Limit (W)
		(dBm)	(W)	
Low Channel	2402	1.411	0.00138	1
Middle Channel	2440	1.306	0.00135	1
High Channel	2480	1.104	0.00129	1

Note: The e.i.r.p. is 5.296 dBm (0.00339W) less than 4W.

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5.1.3 20dB Bandwidth and 99% Bandwidth

RESULT:
Pass

Date of testing	:	2017-06-28
Test standard	:	FCC Part 15.247(a)(1) RSS-247 clause 5.1(2) RSS-Gen clause 6.6
Basic standard	:	ANSI C63.10: 2013 Clause 8 of KDB 558074 v04
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1.a
Ambient temperature	:	25°C
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

Table 10: Test result of 20dB and 99% Bandwidth of BDR mode

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	0.883	0.831
Mid Channel	2441	0.883	0.825
High Channel	2480	0.926	0.830

Table 11: Test result of 20dB and 99% Bandwidth of EDR mode

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	1.453	1.345
Mid Channel	2441	1.448	1.346
High Channel	2480	1.453	1.346

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5.1.4 6dB Bandwidth and 99% Bandwidth

RESULT:
Pass

Date of testing	:	2017-06-28
Test standard	:	FCC Part 15.247(a)(2) RSS-247 clause 5.2(1) RSS-Gen clause 6.6
Basic standard	:	ANSI C63.10: 2013 Clause 8 of KDB 558074 v04
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.2.a
Ambient temperature	:	25°C
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

Table 12: Test result of 6dB Bandwidth and 99% Bandwidth of Bluetooth, Low Energy mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit of 6dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	0.658	≥0.5	1.134
Mid Channel	2440	0.663	≥0.5	1.131
High Channel	2480	0.645	≥0.5	1.131

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5.1.5 Conducted Spurious Emissions measured in 100kHz Bandwidth

RESULT:

Pass

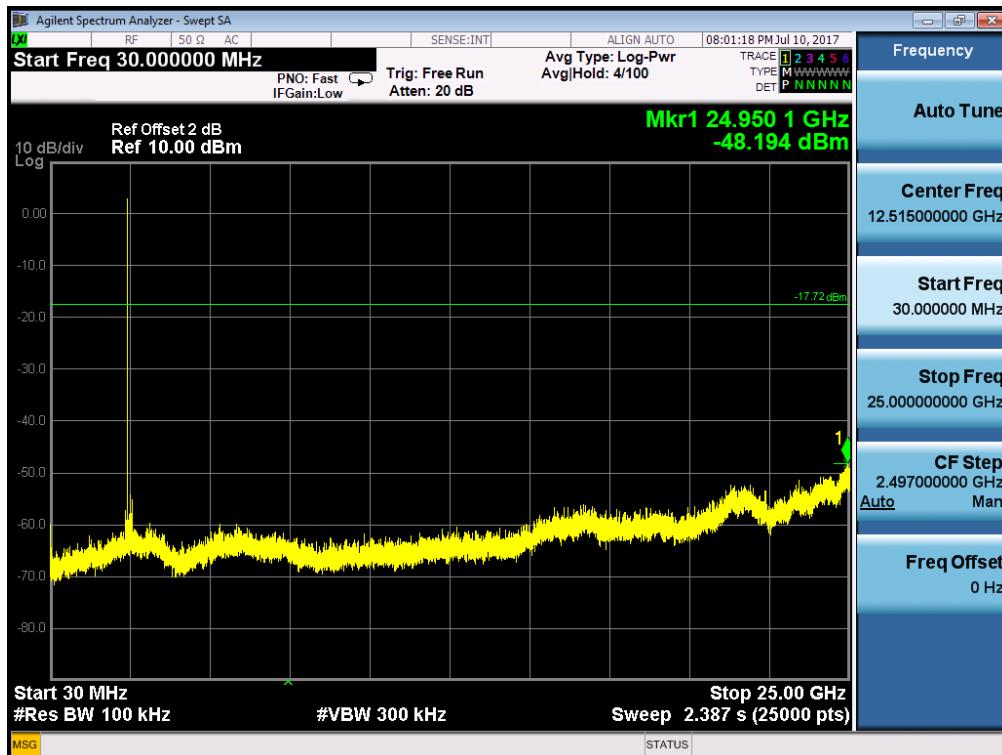
Date of testing	:	2017-07-10
Test standard	:	FCC part 15.247(d) RSS-247 clause 5.5
Basic standard	:	ANSI C63.10: 2013
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);
Kind of test site	:	Shield room

Test setup

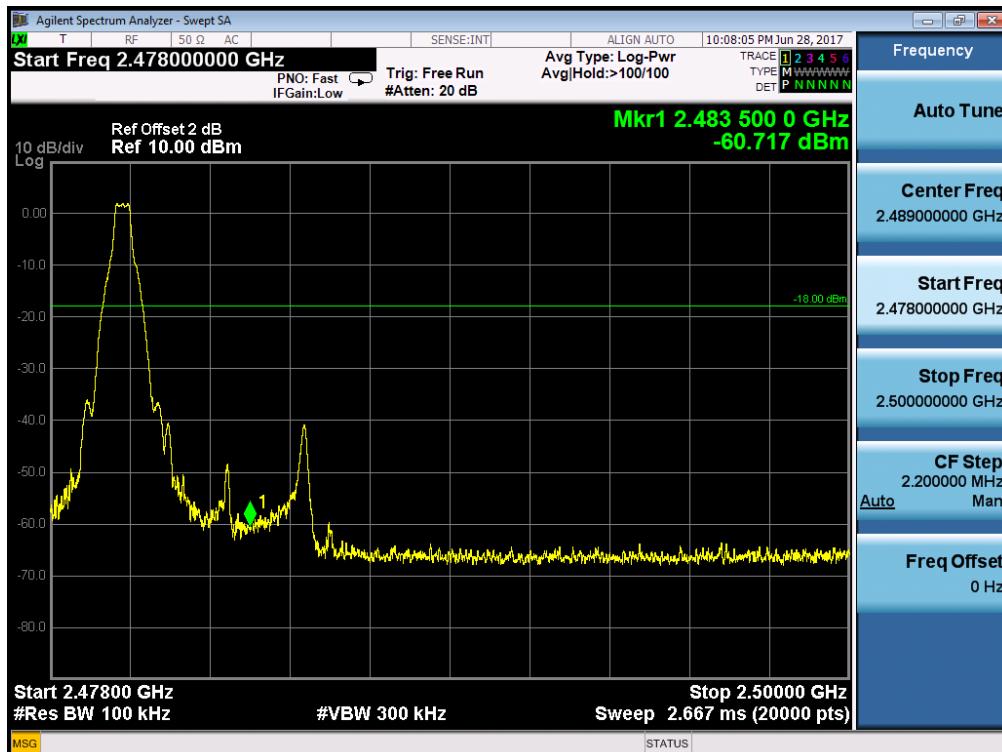
Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1.a, A.2.a
Ambient temperature	:	25°C
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

For details refer to following test plot.

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**Test Plot of Conducted spurious emissions measured in
100kHz Bandwidth of BDR mode**
Low Channel


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Middle Channel


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High Channel


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Band Edge


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100kHz Bandwidth of EDR mode**
Low Channel


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Middle Channel

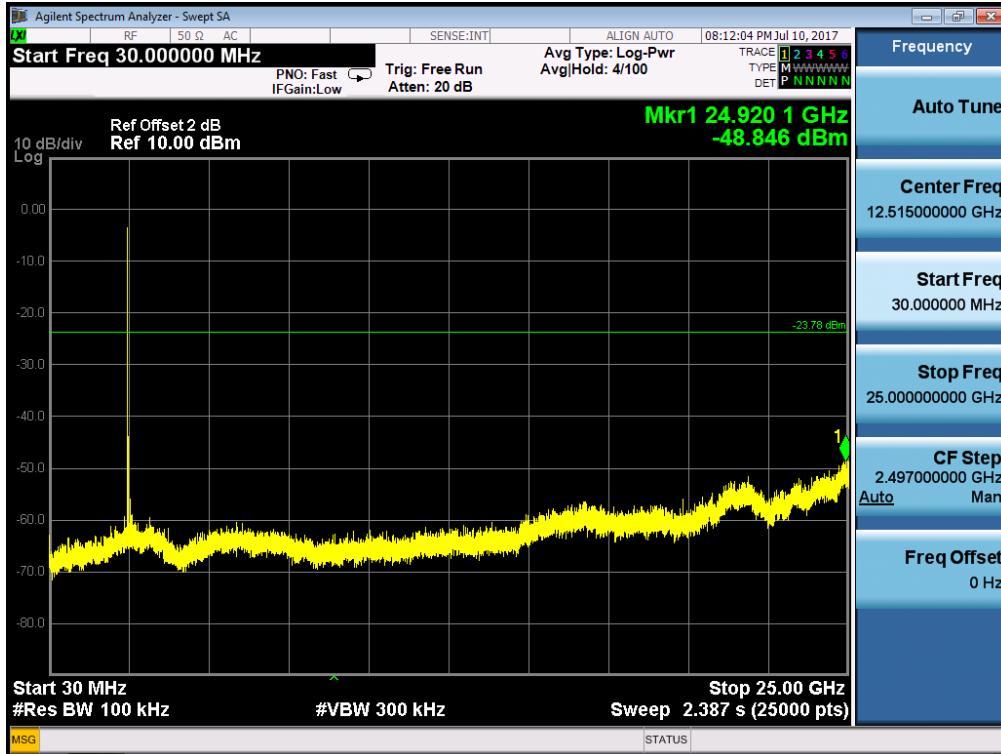


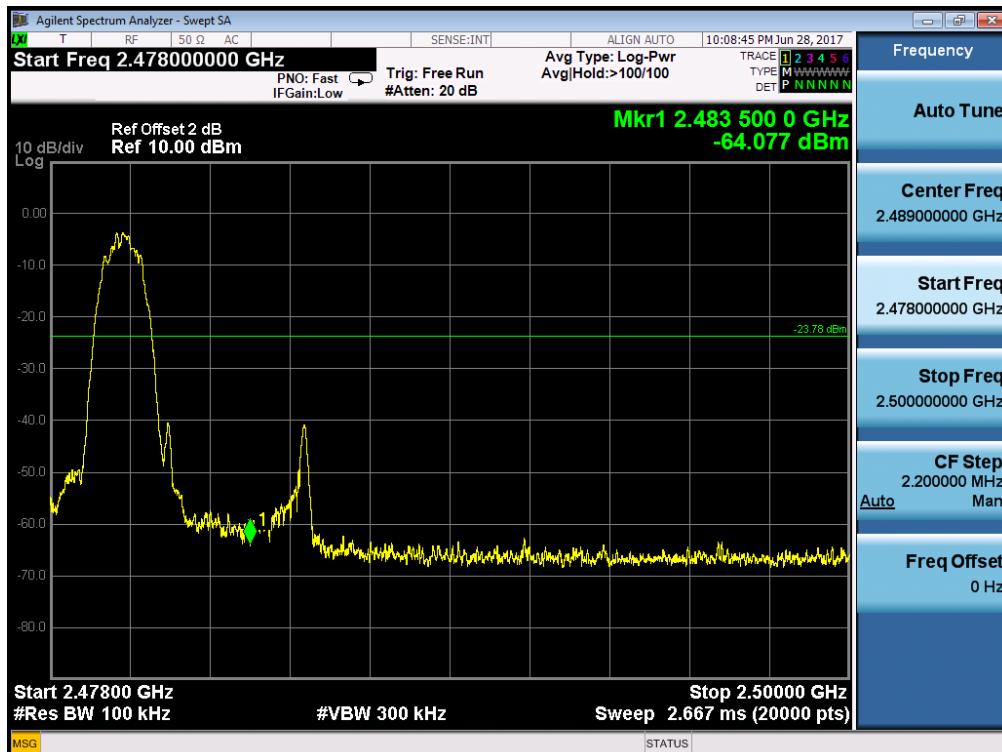
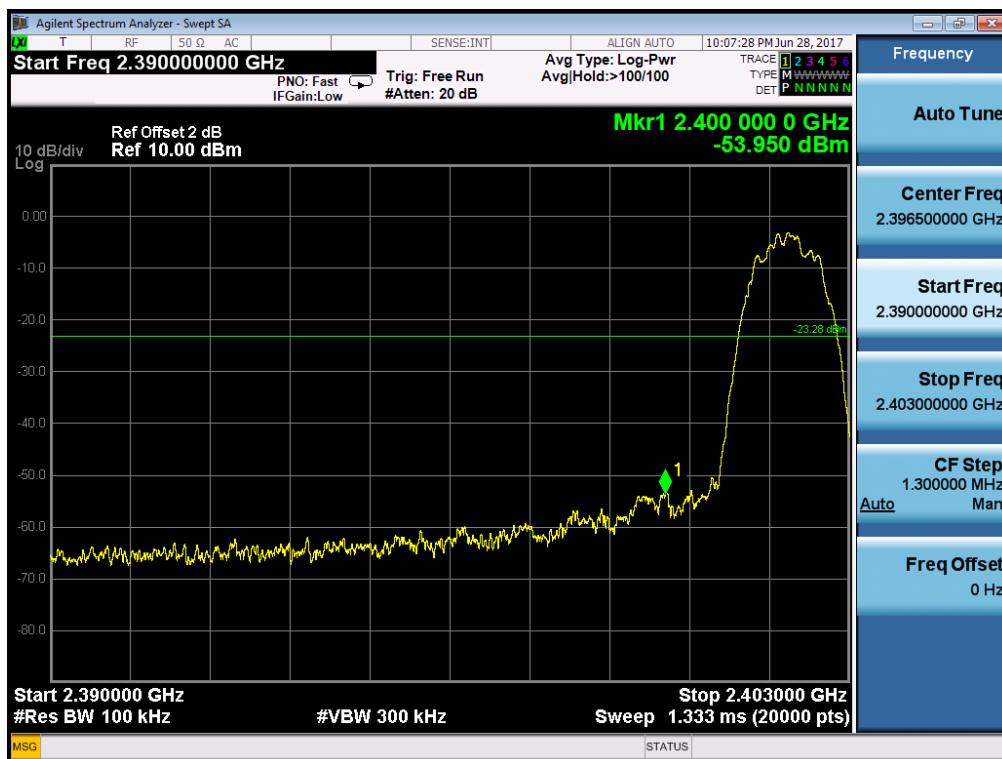
Prüfbericht - Nr.: 50089521 001

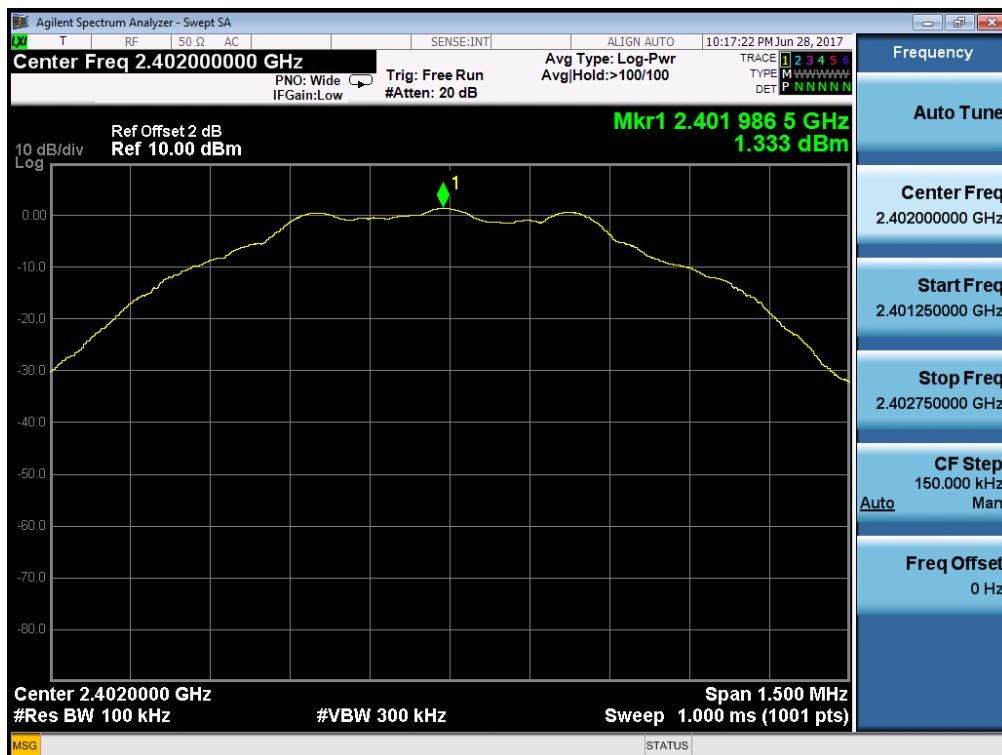
Test Report No.

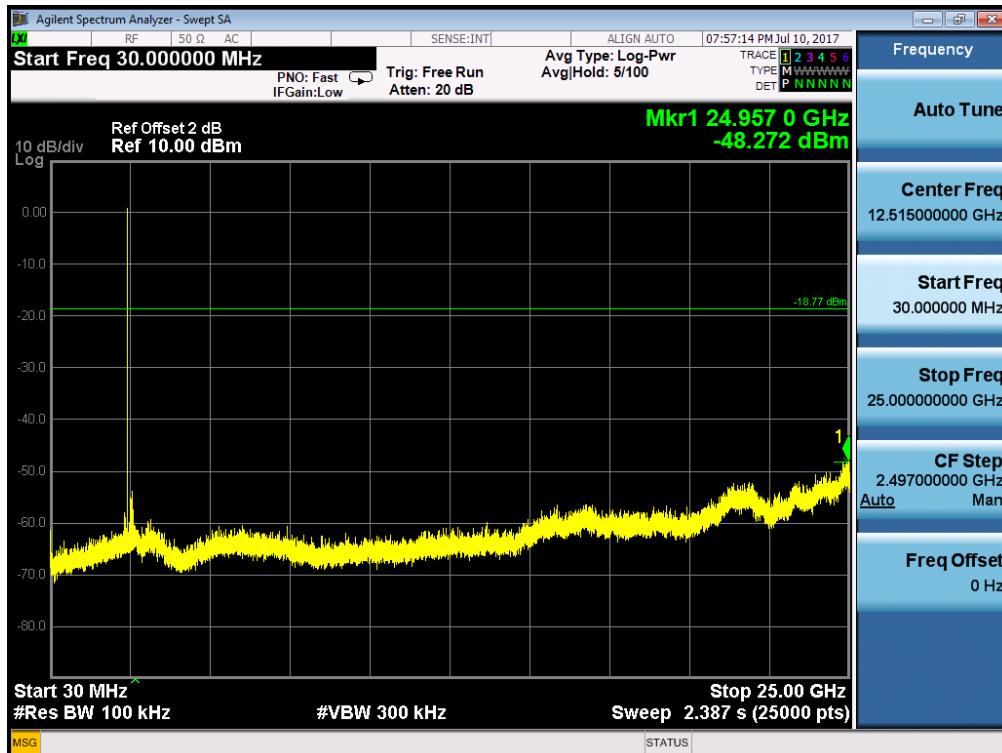
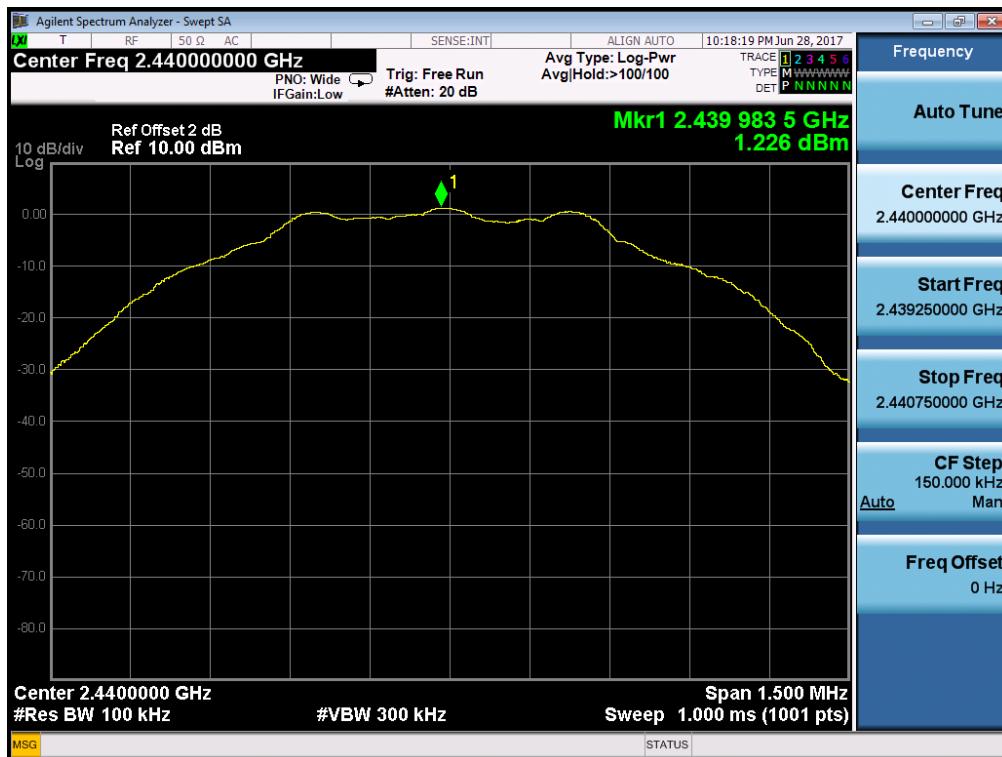
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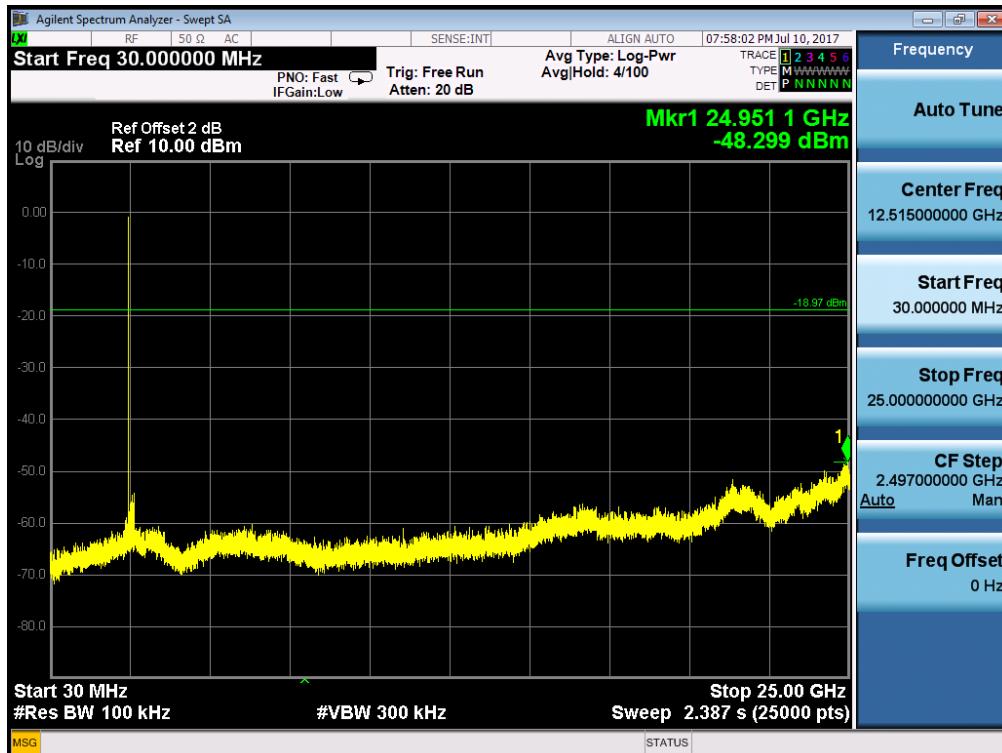
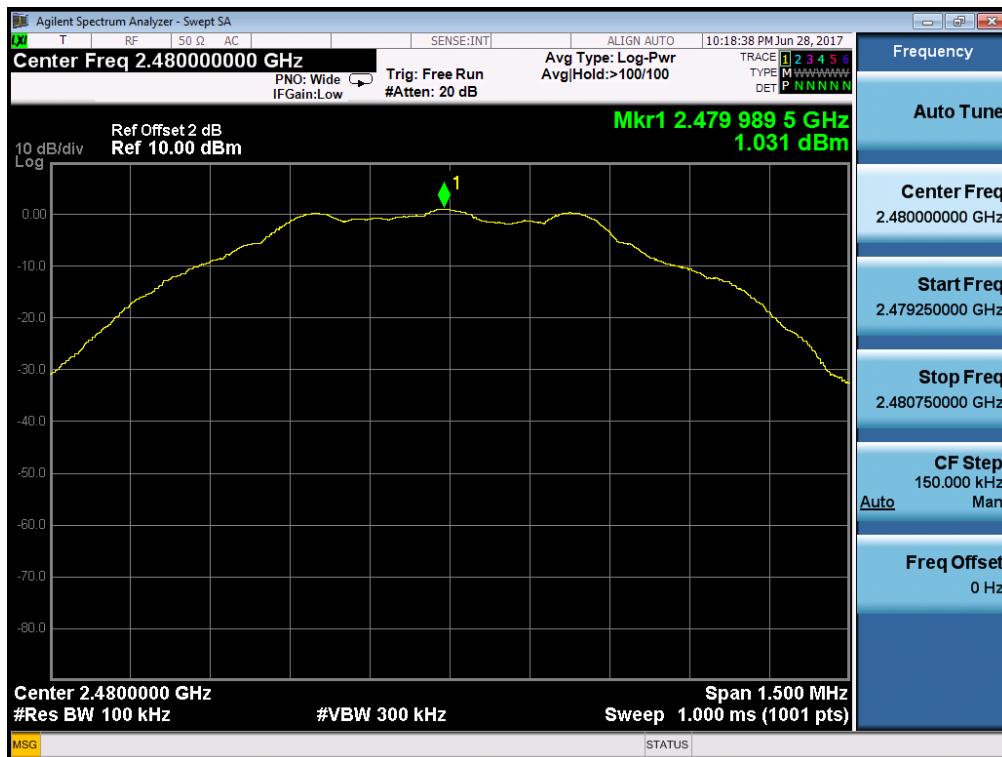
High Channel

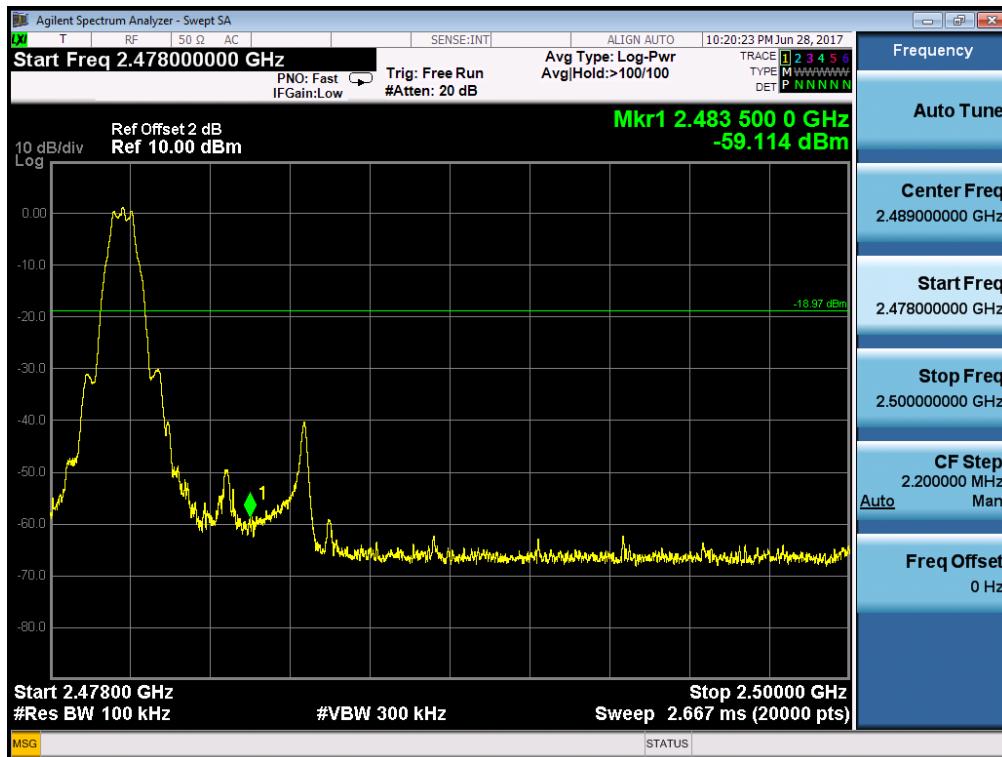


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Band Edge


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**Test Plot of Conducted spurious emissions measured in
100kHz Bandwidth of Low Energy mode**
Low Channel


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Band Edge


Prüfbericht - Nr.: 50089521 001
*Test Report No.*Seite 32 von 40
Page 32 of 40**5.1.6 Power spectral density****RESULT:****Pass**

Date of testing : 2017-06-28
Test standard : FCC part 15.247(e)
Basic standard : RSS-247 clause 5.2(2)
Basic standard : ANSI C63.10: 2013
Limit : Clause 10 of KDB 558074 v04
Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
Operation mode : A.2.a
Ambient temperature : 25°C
Relative humidity : 50%
Atmospheric pressure : 101kPa

Table 13: Test result of power spectral density

Mode	Channel (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Conclusion
Bluetooth LE mode	2402	-13.880	8	Pass
	2440	-14.413	8	Pass
	2480	-14.429	8	Pass

Prüfbericht - Nr.: **50089521 001**
*Test Report No.***Seite 33 von 40**
*Page 33 of 40***5.1.7 Spurious Emission****RESULT:****Pass**

Date of testing	:	2017-07-03
Test standard	:	FCC part 15.247(d) RSS-Gen
Basic standard	:	ANSI C63.10: 2013 Clause 11 of KDB 558074 v04
Limits	:	FCC part 15.209(a)
Kind of test site	:	3m Semi-Anechoic Chamber & Anechoic Chamber

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1.a, A.2.a
Ambient temperature	:	22°C
Relative humidity	:	55%
Atmospheric pressure	:	101kPa

For details refer to appendix A.

Prüfbericht - Nr.: 50089521 001
Test Report No.
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5.1.8 Frequency Separation

RESULT:
Pass

Date of testing	:	2017-06-28
Test standard	:	FCC part 15.247(a)(1) RSS-247 clause 5.1(2)
Basic standard	:	ANSI C63.10: 2013
Limit	:	$\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth, whichever is greater
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1.a
Ambient temperature	:	25°C
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

Table 14: Test result of Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1.002	$\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	0.993	$\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2479	0.987	$\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2480			

Prüfbericht - Nr.: 50089521 001
*Test Report No.*Seite 35 von 40
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Date of testing	:	2017-06-28
Test standard	:	FCC part 15.247(a)(1)(iii) RSS-247 clause 5.1(4)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 15 non-overlapping channels
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1.a
Ambient temperature	:	25°C
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

Table 15: Test result of Number of hopping frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2402 to 2480MHz	79	≥15	Pass

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5.1.10 Time of Occupancy

RESULT:
Pass

Date of testing	:	2017-06-28
Test standard	:	FCC part 15.247(a)(1)(iii) RSS-247 clause 5.1(4)
Basic standard	:	ANSI C63.10: 2013
Limits	:	0.4s
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1.a
Ambient temperature	:	25°C
Relative humidity	:	50%
Atmospheric pressure	:	101kPa

Table 16: Test result of Time of Occupancy

Mode	Packet Type	Channel Frequency (MHz)	Packet Duration [ms]	Number of Hops per Channel	Dwell Time (ms)	Limit [ms]
BDR	DH1	2402	0.548	320	175.36	400
		2441	0.552	320	176.64	400
		2480	0.548	320	175.36	400
	DH3	2402	1.750	165	288.75	400
		2441	1.764	165	291.06	400
		2480	1.764	165	291.06	400
	DH5	2402	3.090	112	346.08	400
		2441	3.090	112	346.08	400
		2480	3.090	112	346.08	400
EDR	DH1	2402	0.420	320	134.40	400
		2441	0.424	320	135.68	400
		2480	0.424	320	135.68	400
	DH3	2402	1.750	165	288.75	400
		2441	1.750	165	288.75	400
		2480	1.750	165	288.75	400
	DH5	2402	2.830	112	316.96	400
		2441	2.810	112	314.72	400
		2480	2.800	112	313.60	400

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Test Report No.

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5.1.11 Conducted emissions

RESULT:

Pass

Date of testing	:	2017-06-16
Test standard	:	FCC Part 15.207 RSS-Gen Clause 8.8
Basic standard	:	ANSI C63.10: 2013
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207 Table 3 of RSS-Gen
Kind of test site	:	Shield room

Test setup

Input Voltage	:	AC 120V, 60Hz
Operation Mode	:	A
Earthing	:	Not Connected
Ambient temperature	:	21°C
Relative humidity	:	53%
Atmospheric pressure	:	101kPa

For details refer to appendix A.

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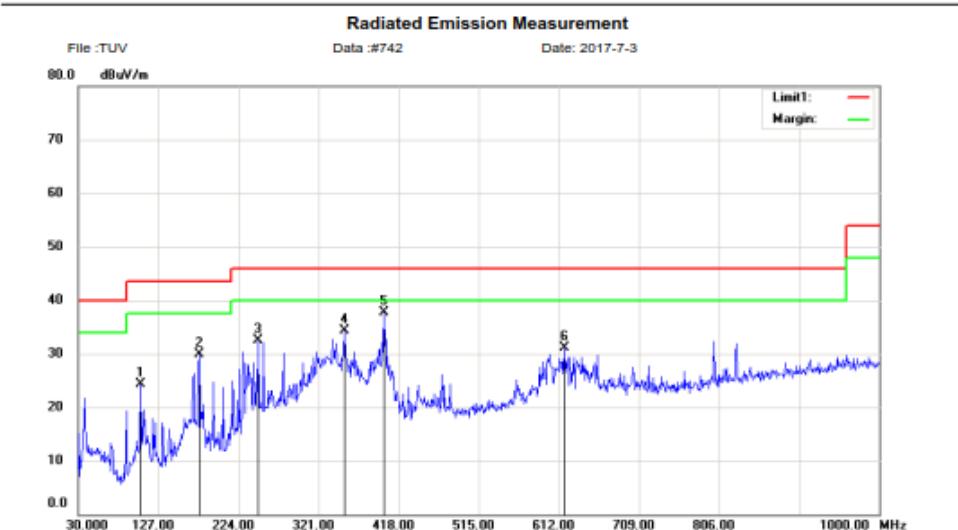
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Note 1: Testing was carried out within frequency range 9 kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

1. Transmitter Spurious Emissions of BDR mode

1.1 Transmitter Spurious Emissions, 30MHz - 1GHz

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		105.6600	39.25	-14.96	24.29	43.50	-19.21	QP		
2		176.4700	46.61	-16.69	29.92	43.50	-13.58	QP		
3		248.2500	45.34	-12.82	32.52	46.00	-13.48	QP		
4		353.0100	43.83	-9.50	34.33	46.00	-11.67	QP		
5	*	400.5400	46.39	-8.66	37.73	46.00	-8.27	peak		
6		618.7900	34.59	-3.52	31.07	46.00	-14.93	QP		

*:Maximum data x:Over limit !:over margin

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File :TUV Data :#742

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Radiated Emission Measurement

File :TUV

Data #:743

Date: 2017-7-3



Site 3m Chamber #2

Polarization: **Vertical**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Insignia Flex Android 10" Tablet

M/N: NS-P10W8100

Mode:BT3.0 GFSK 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		37.7600	37.97	-14.93	23.04	40.00	-16.96	QP		
2		88.2000	47.70	-17.52	30.18	43.50	-13.32	QP		
3		176.4700	43.87	-16.69	27.18	43.50	-16.32	QP		
4		243.4000	37.70	-12.90	24.80	46.00	-21.20	QP		
5	*	400.5400	44.63	-8.66	35.97	46.00	-10.03	QP		
6		800.1800	35.23	-0.74	34.49	46.00	-11.51	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV Data #:743

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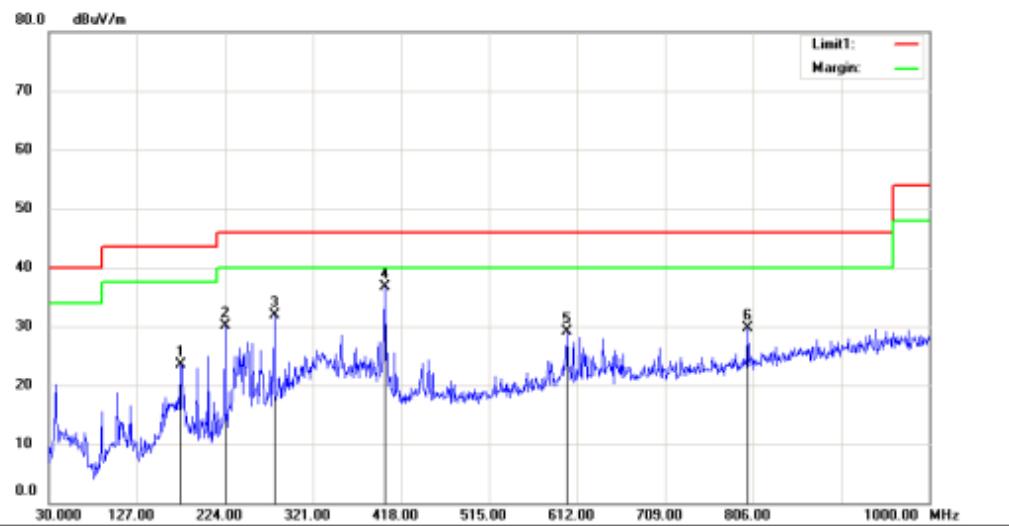
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Radiated Emission Measurement

File :TUV

Data #:745

Date: 2017-7-3



Site 3m Chamber #2

Polarization: **Horizontal**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Insignia Flex Android 10" Tablet

M/N: NS-P10W8100

Mode:BT3.0 GFSK 2441

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		175.5000	40.34	-16.76	23.58	43.50	-19.92	QP		
2		224.0000	43.86	-13.84	30.02	46.00	-15.98	QP		
3		278.3200	43.75	-11.88	31.87	46.00	-14.13	QP		
4	*	400.5400	45.44	-8.66	36.78	46.00	-9.22	QP		
5		601.3300	32.81	-3.77	29.04	46.00	-16.96	QP		
6		800.1800	30.45	-0.74	29.71	46.00	-16.29	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV Data #:745

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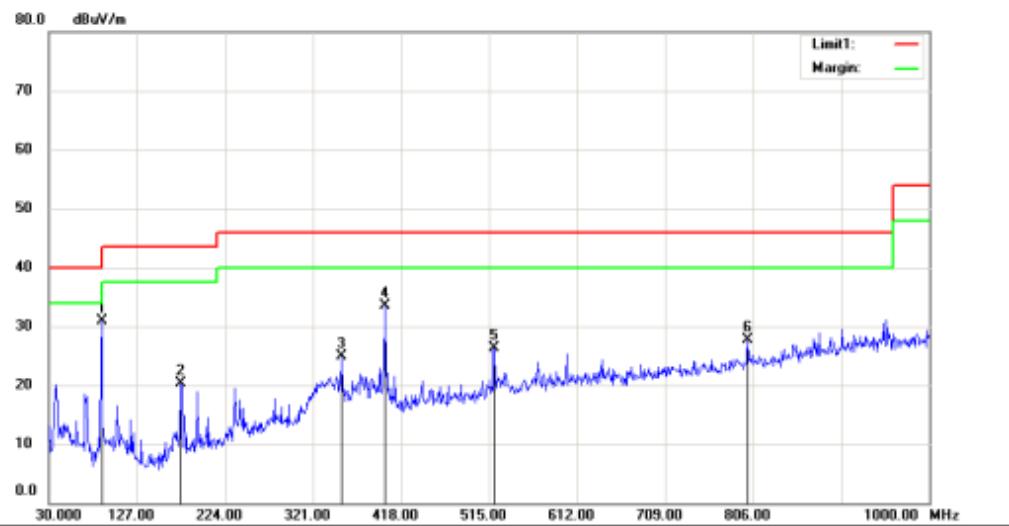
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Radiated Emission Measurement

File :TUV

Data :#744

Date: 2017-7-3



Site 3m Chamber #2

Polarization: **Vertical**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Insignia Flex Android 10" Tablet

M/N: NS-P10W8100

Mode:BT3.0 GFSK 2441

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		88.2000	48.45	-17.52	30.93	43.50	-12.57	QP		
2		175.5000	37.04	-16.76	20.28	43.50	-23.22	QP		
3		353.0100	34.35	-9.50	24.85	46.00	-21.15	QP		
4	*	400.5400	42.16	-8.66	33.50	46.00	-12.50	QP		
5		520.8200	32.13	-5.90	26.23	46.00	-19.77	QP		
6		800.1800	28.36	-0.74	27.62	46.00	-18.38	QP		

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Radiated Emission Measurement

File :TUV

Data #:746

Date: 2017-7-3



Site 3m Chamber #2

Polarization: **Horizontal**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Insignia Flex Android 10" Tablet

M/N: NS-P10W8100

Mode:BT3.0 GFSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		175.5000	42.20	-16.76	25.44	43.50	-18.06	QP		
2		248.2500	40.40	-12.82	27.58	46.00	-18.42	QP		
3		326.8200	41.72	-10.45	31.27	46.00	-14.73	QP		
4	*	400.5400	40.90	-8.66	32.24	46.00	-13.76	QP		
5		615.8800	33.96	-3.57	30.39	46.00	-15.61	QP		
6		800.1800	32.10	-0.74	31.36	46.00	-14.64	QP		

*:Maximum data x:Over limit !:over margin

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File :TUV Data #:746

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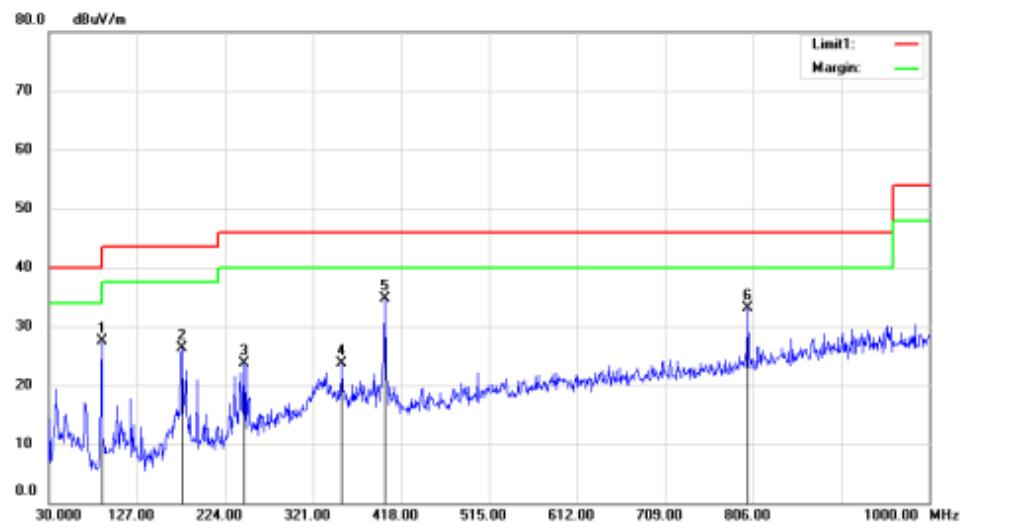
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Radiated Emission Measurement

File :TUV

Data #:747

Date: 2017-7-3



Site 3m Chamber #2

Polarization: **Vertical**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Insignia Flex Android 10" Tablet

M/N: NS-P10W8100

Mode:BT3.0 GFSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		88.2000	45.10	-17.52	27.58	43.50	-15.92	QP		
2		176.4700	42.99	-16.69	26.30	43.50	-17.20	QP		
3		245.3400	36.66	-12.88	23.78	46.00	-22.22	QP		
4		353.0100	33.22	-9.50	23.72	46.00	-22.28	QP		
5	*	400.5400	43.42	-8.66	34.76	46.00	-11.24	QP		
6		800.1800	33.94	-0.74	33.20	46.00	-12.80	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV Data #:747

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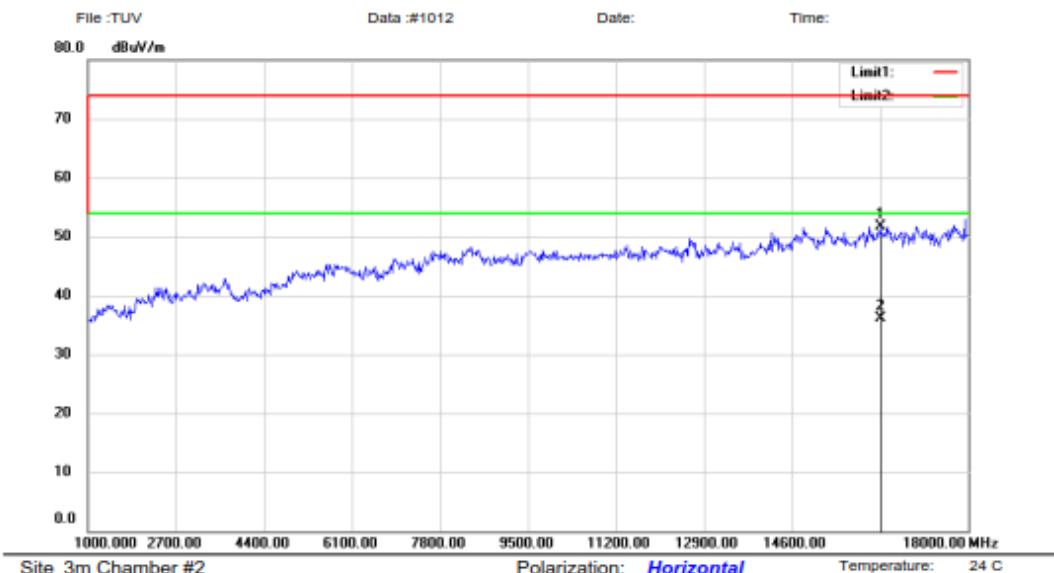
1.2 Transmitter Spurious Emissions, 1GHz - 18GHz

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Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		16300.00	63.36	-11.70	51.66	74.00	-22.34	peak			
2	*	16300.00	47.90	-11.70	36.20	54.00	-17.80	AVG			

*:Maximum data x:Over limit !:over margin

Operator: XLX

File : TUV Data #: #1012

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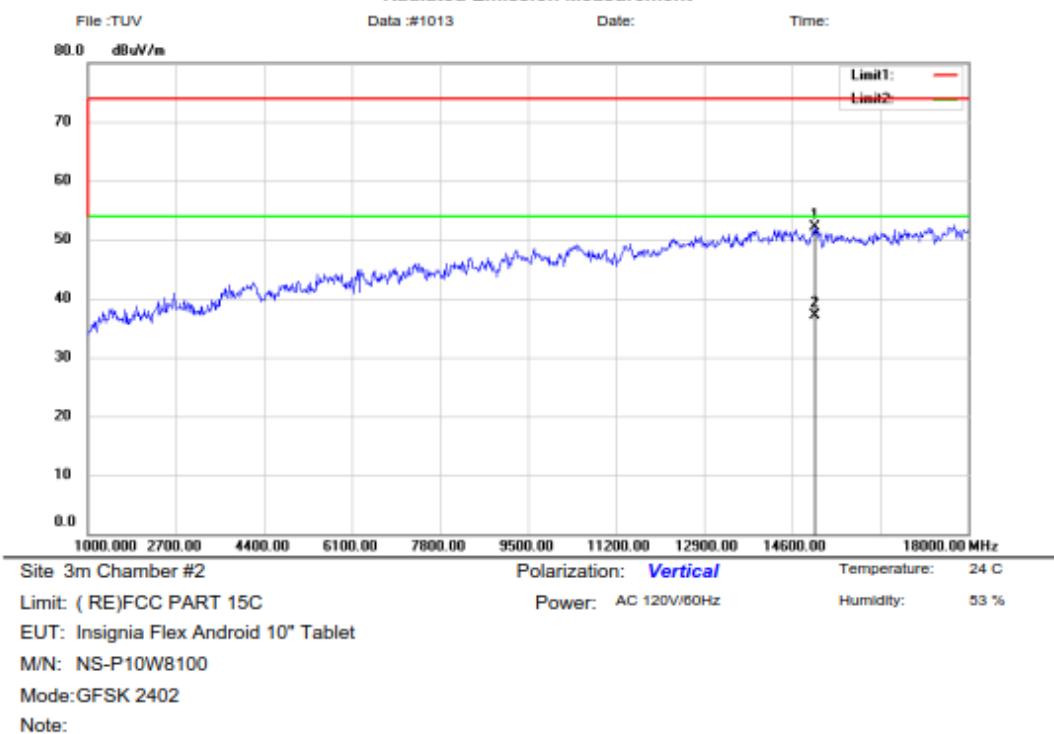
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Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		15042.00	61.74	-9.72	52.02	74.00	-21.98	peak		
2 *		15042.00	46.82	-9.72	37.10	54.00	-16.90	AVG		

*:Maximum data x:Over limit !:over margin

Operator: XLX

File :TUV Data #:1013

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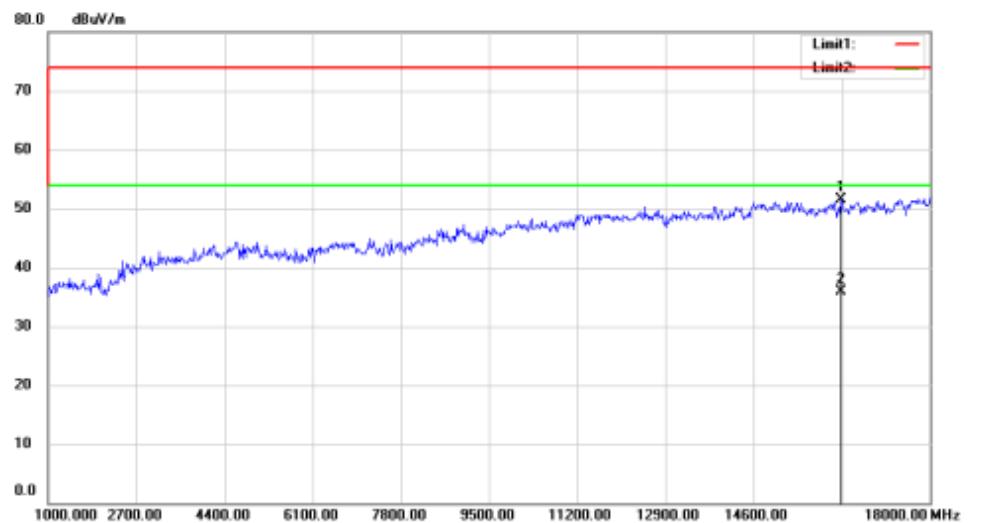
Radiated Emission Measurement

File :TUV

Data #:1014

Date:

Time:



Site 3m Chamber #2

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Insignia Flex Android 10" Tablet

M/N: NS-P10W8100

Mode:GFSK 2441

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		16283.00	63.28	-11.77	51.51	74.00	-22.49	peak		
2	*	16283.00	47.67	-11.77	35.90	54.00	-18.10	AVG		

*:Maximum data x:Over limit !:over margin

Operator: XLX

File :TUVData #:1014

Page: 1

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Access to the World

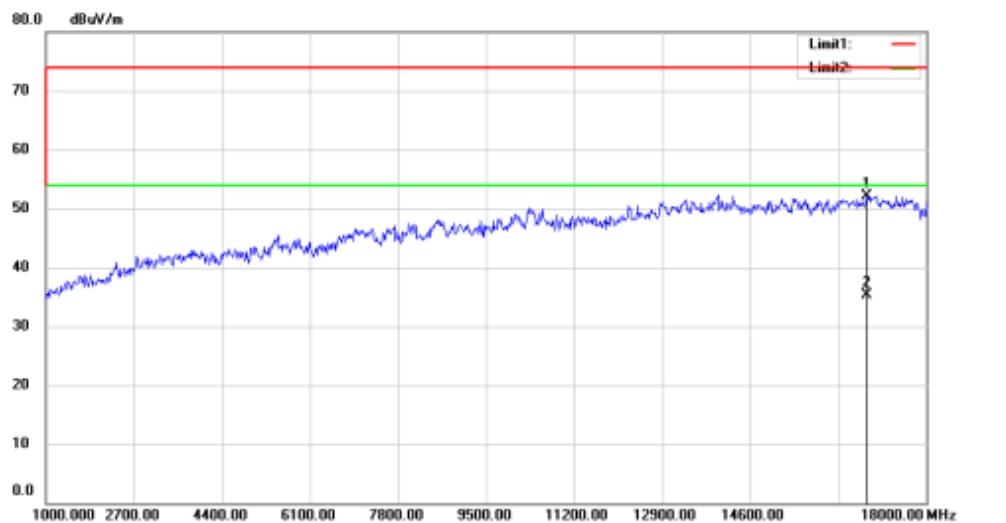
Radiated Emission Measurement

File :TUV

Data #:1015

Date:

Time:



Site 3m Chamber #2

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Insignia Flex Android 10" Tablet

M/N: NS-P10W8100

Mode:GFSK 2441

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		16844.00	61.82	-9.80	52.02	74.00	-21.98	peak		
2	*	16844.00	45.20	-9.80	35.40	54.00	-18.60	AVG		

*:Maximum data x:Over limit !:over margin

Operator: XLX

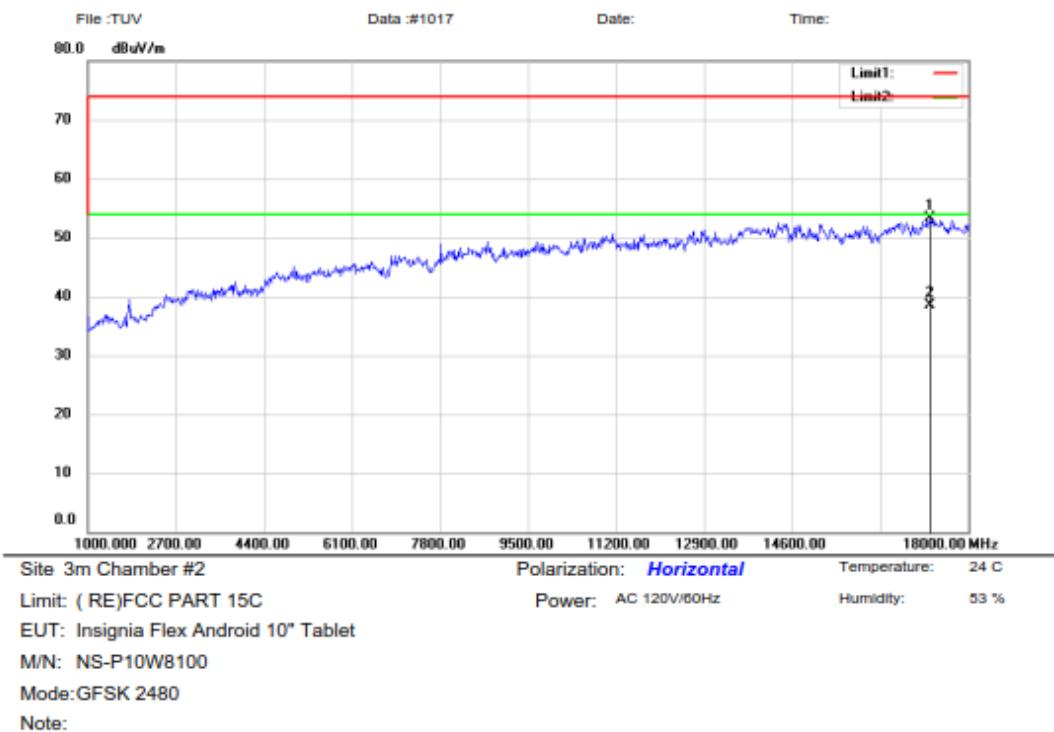
File :TUVData #:1015

Page: 1

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Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		17252.00	59.43	-6.19	53.24	74.00	-20.76	peak		
2 *		17252.00	44.79	-6.19	38.60	54.00	-15.40	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV Data #:1017

Page: 1

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Access to the World

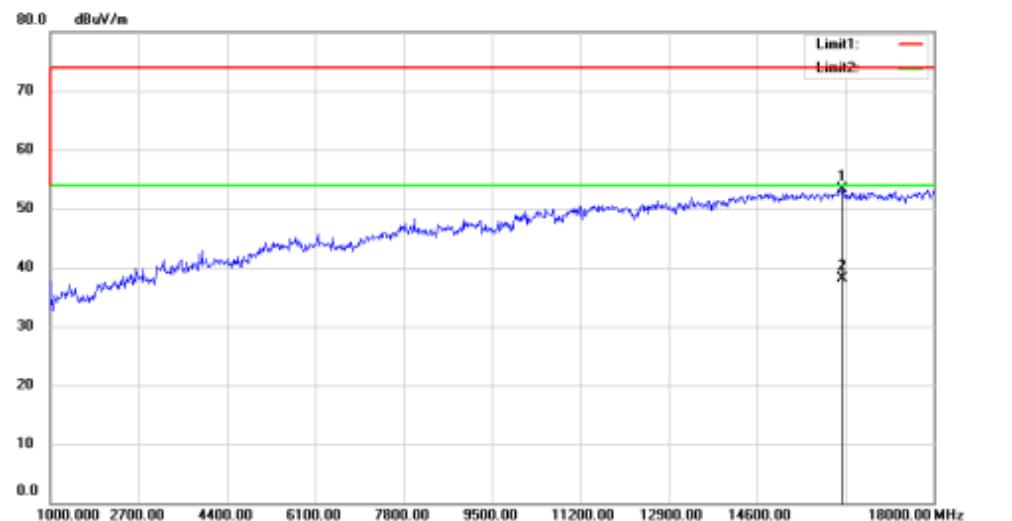
Radiated Emission Measurement

File :TUV

Data #:1016

Date:

Time:



Site 3m Chamber #2

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Insignia Flex Android 10" Tablet

M/N: NS-P10W8100

Mode:GFSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		16249.00	65.27	-11.88	53.39	74.00	-20.61	peak		
2	*	16249.00	50.08	-11.88	38.20	54.00	-15.80	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV Data #:1016

Page: 1

Appendix A
50089521 001

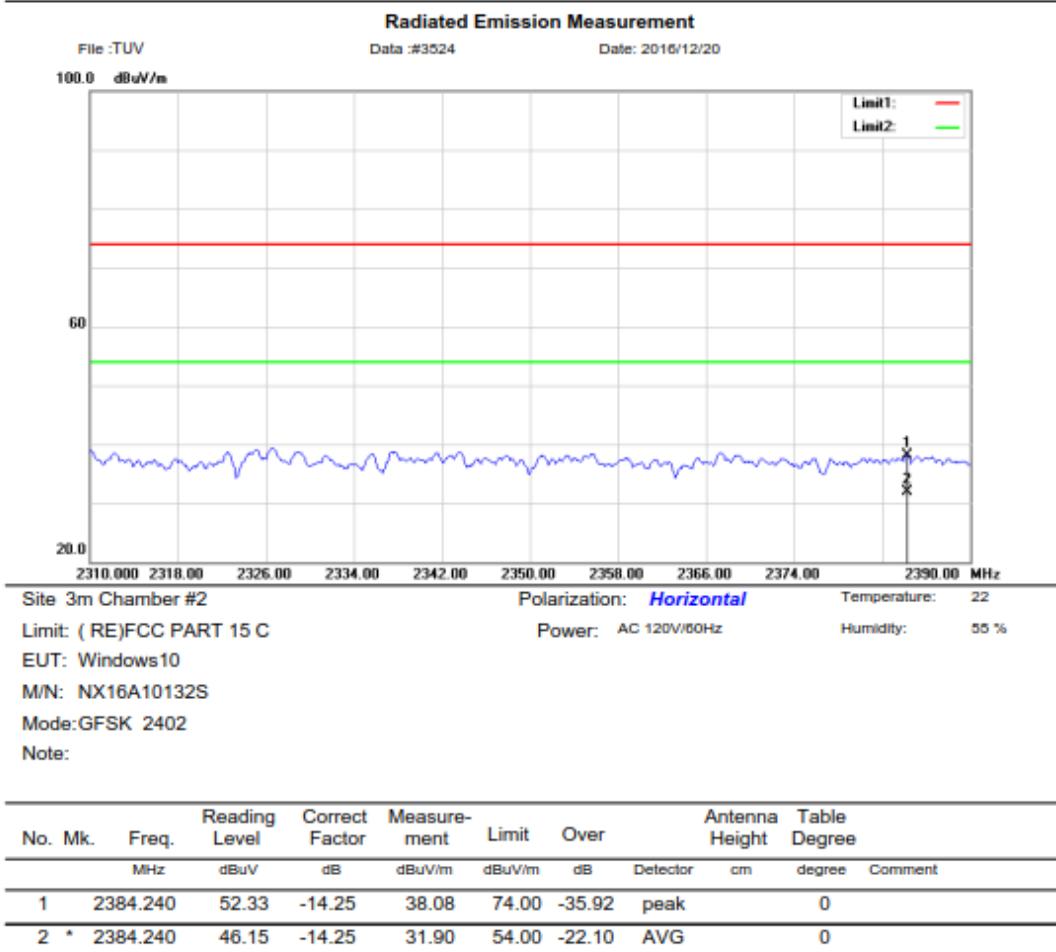


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1.3 Restricted Bands

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*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV Data :#3524

Page: 1

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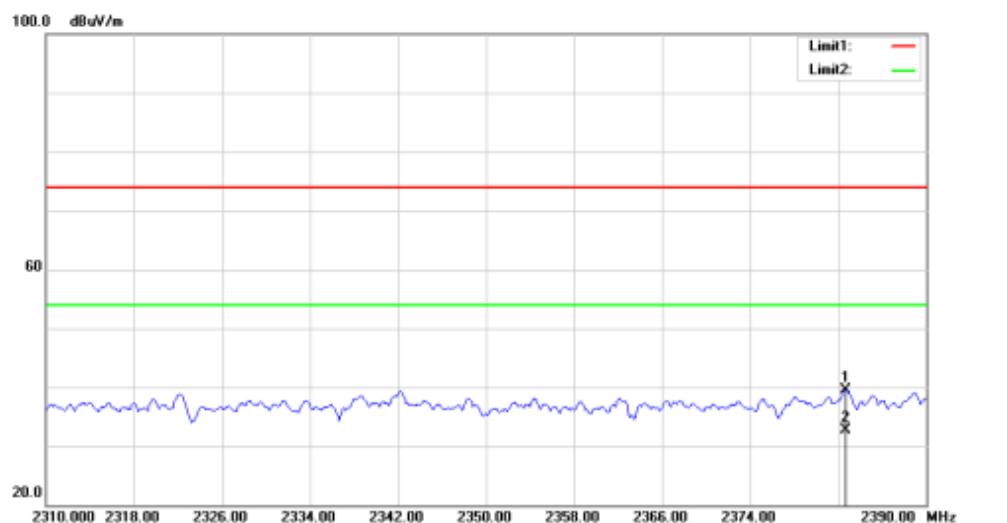

EMTEK Access to the World

Radiated Emission Measurement

File :TUV

Data #:3523

Date: 2016/12/20



Site 3m Chamber #2

Polarization: **Vertical**

Temperature: 22

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Windows10

M/N: NX16A10132S

Mode:GFSK 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2382.720	53.83	-14.26	39.57	74.00	-34.43	peak	0		
2 *		2382.720	46.86	-14.26	32.60	54.00	-21.40	AVG	0		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV Data #:3523

Page: 1

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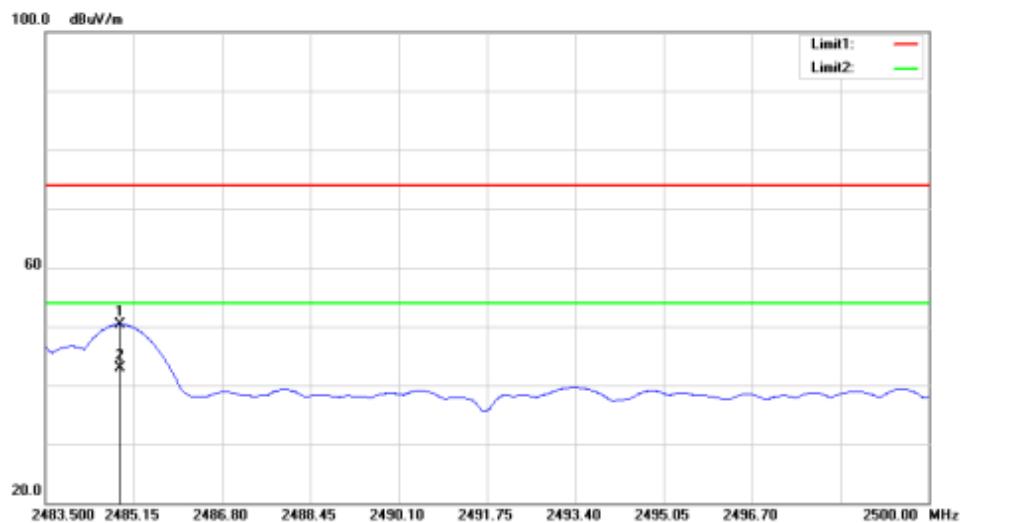

EMTEK Access to the World

Radiated Emission Measurement

File :TUV

Data #:3526

Date: 2016/12/20



Site 3m Chamber #2

Polarization: **Horizontal**

Temperature: 22

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Windows10

M/N: NX16A10132S

Mode:GFSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2484.886	64.11	-13.75	50.36	74.00	-23.64	peak	0	
2 *		2484.886	56.65	-13.75	42.90	54.00	-11.10	AVG	0	

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV Data #:3526

Page: 1

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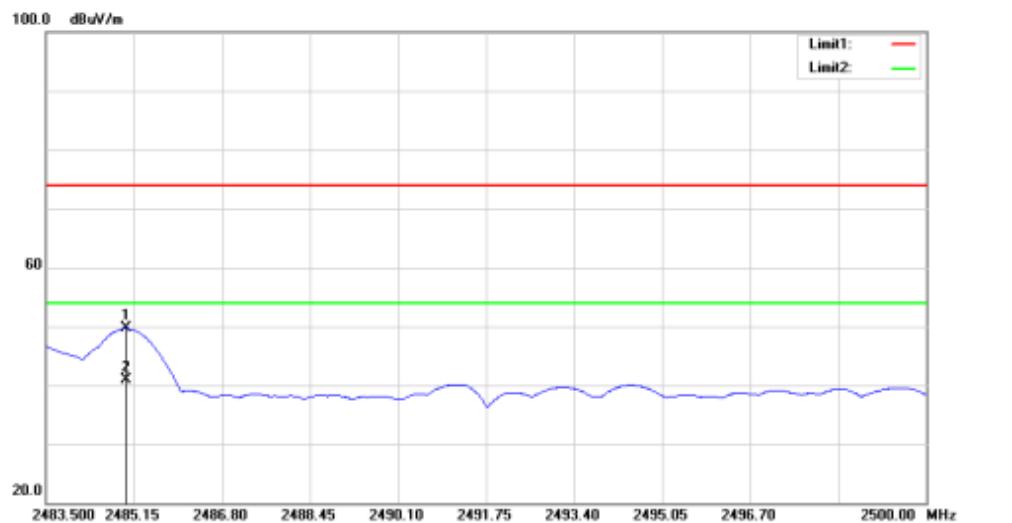

EMTEK Access to the World

Radiated Emission Measurement

File :TUV

Data #:3525

Date: 2016/12/20



Site 3m Chamber #2

Polarization: **Vertical**

Temperature: 22

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Windows10

M/N: NX16A10132S

Mode:GFSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	2485.001	63.39	-13.75	49.64	74.00	-24.36	peak		0	
2 *	2485.001	54.75	-13.75	41.00	54.00	-13.00	AVG		0	

*:Maximum data x:Over limit !:over margin

Operator: KK

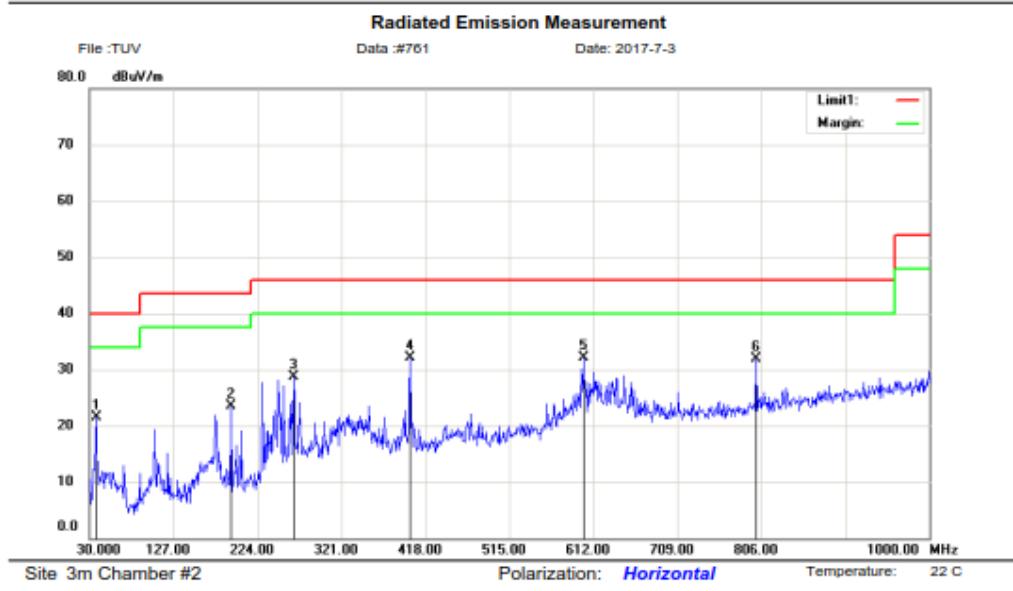
File :TUV Data #:3525

Page: 1

2. Transmitter Spurious Emissions of Low Energy mode

2.1 Transmitter Spurious Emissions, 30MHz - 1GHz

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	
1		37.7600	36.37	-14.93	21.44	40.00	-18.56	QP			
2		193.9300	38.45	-14.93	23.52	43.50	-19.98	QP			
3		265.7100	41.09	-12.43	28.66	46.00	-17.34	QP			
4		400.5400	40.73	-8.66	32.07	46.00	-13.93	QP			
5	*	600.3600	35.89	-3.78	32.11	46.00	-13.89	QP			
6		800.1800	32.69	-0.74	31.95	46.00	-14.05	QP			

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV\Data .#761

Page: 1

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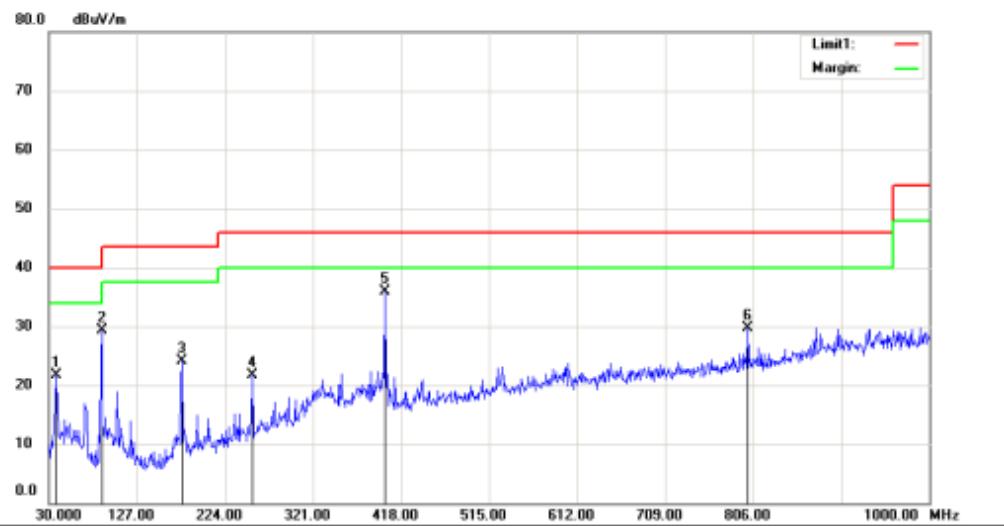

EMTEK Access to the World

Radiated Emission Measurement

File :TUV

Data #:760

Date: 2017-7-3



Site 3m Chamber #2

Polarization: **Vertical**

Temperature: 22 °C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Insignia Flex Android 10" Tablet

M/N: NS-P10W8100

Mode:BT4.0 GFSK2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	Comment	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	
1		37.7600	36.59	-14.93	21.66	40.00	-18.34	QP			
2		88.2000	46.80	-17.52	29.28	43.50	-14.22	QP			
3		176.4700	40.86	-16.69	24.17	43.50	-19.33	QP			
4		254.0700	34.40	-12.68	21.72	46.00	-24.28	QP			
5	*	400.5400	44.48	-8.66	35.82	46.00	-10.18	QP			
6		800.1800	30.53	-0.74	29.79	46.00	-16.21	QP			

*:Maximum data x:Over limit !:over margin

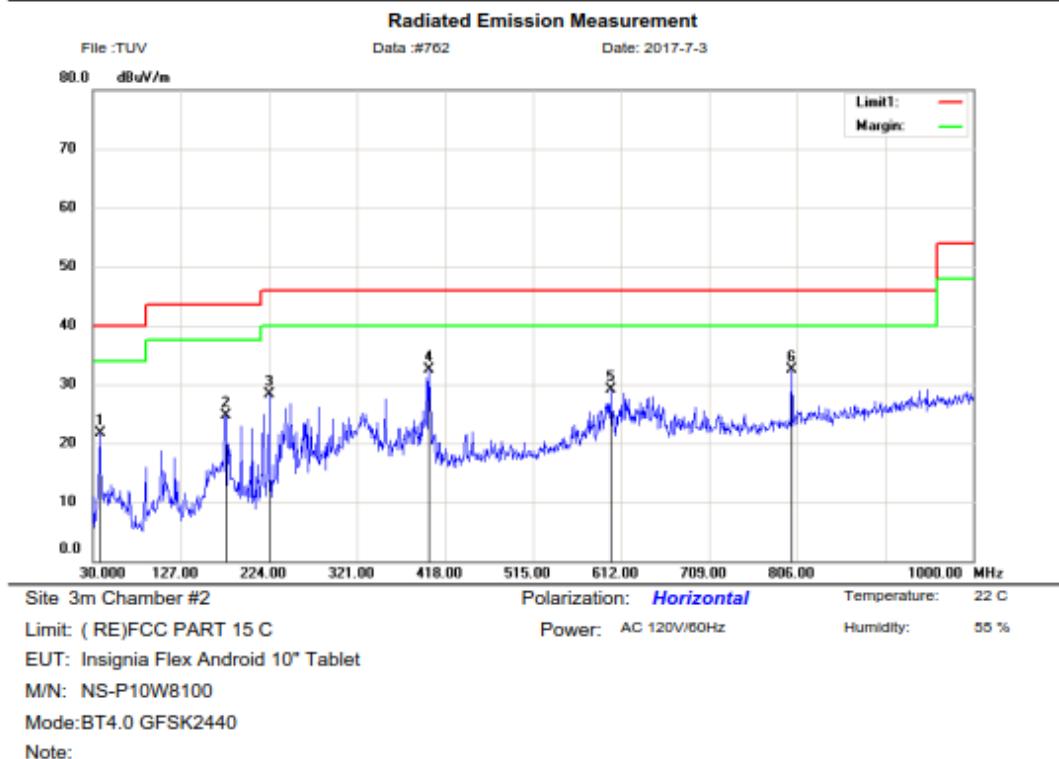
Operator: KK

File :TUV Data #:760

Page: 1

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	
1		37.7600	36.59	-14.93	21.66	40.00	-18.34	QP			
2		176.4700	41.40	-16.69	24.71	43.50	-18.79	QP			
3		224.0000	42.11	-13.84	28.27	46.00	-17.73	QP			
4	*	400.5400	41.25	-8.66	32.59	46.00	-13.41	QP			
5		600.3600	32.79	-3.78	29.01	46.00	-16.99	QP			
6		800.1800	33.16	-0.74	32.42	46.00	-13.58	QP			

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV Data #:762

Page: 1

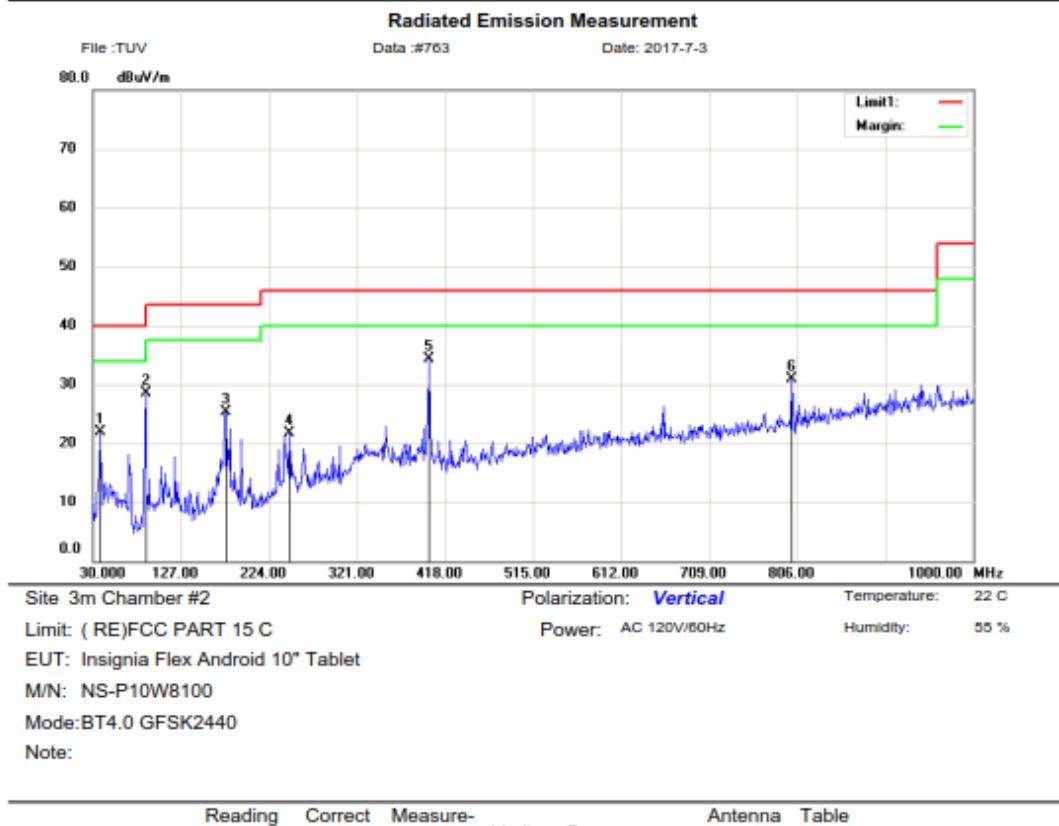
Appendix A
50089521 001



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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		37.7600	36.82	-14.93	21.89	40.00	-18.11	QP		
2		88.2000	46.06	-17.52	28.54	43.50	-14.96	QP		
3		176.4700	42.00	-16.69	25.31	43.50	-18.19	QP		
4		246.3100	34.52	-12.86	21.66	46.00	-24.34	QP		
5	*	400.5400	43.02	-8.66	34.36	46.00	-11.64	QP		
6		800.1800	31.65	-0.74	30.91	46.00	-15.09	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV Data #:763

Page: 1

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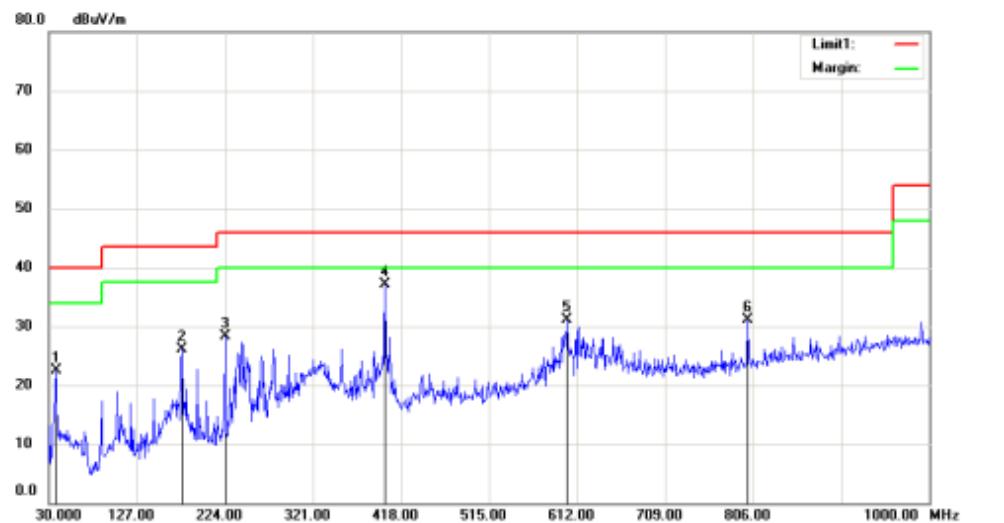

Access to the World

Radiated Emission Measurement

File :TUV

Data #:765

Date: 2017-7-3



Site 3m Chamber #2

Polarization: **Horizontal**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Insignia Flex Android 10" Tablet

M/N: NS-P10W8100

Mode:BT4.0 GFSK2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		37.7600	37.36	-14.93	22.43	40.00	-17.57	QP		
2		176.4700	42.88	-16.69	26.19	43.50	-17.31	QP		
3		224.0000	42.09	-13.84	28.25	46.00	-17.75	QP		
4	*	400.5400	45.84	-8.66	37.18	46.00	-8.82	QP		
5		601.3300	34.97	-3.77	31.20	46.00	-14.80	QP		
6		800.1800	31.87	-0.74	31.13	46.00	-14.87	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV Data #:765

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Appendix A
50089521 001



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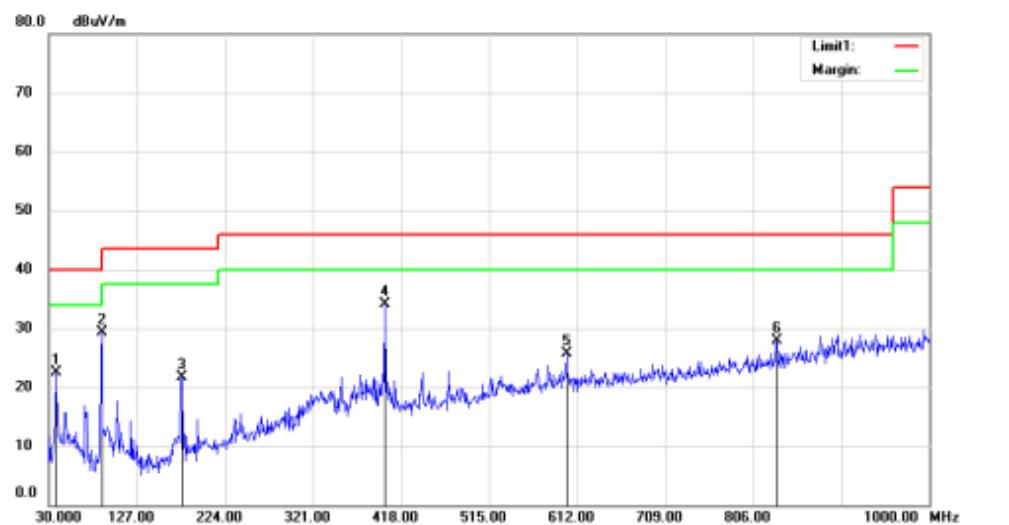
EMTEK
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Radiated Emission Measurement

File :TUV

Data #:764

Date: 2017-7-3



Site 3m Chamber #2

Polarization: **Vertical**

Temperature: 22 C

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Insignia Flex Android 10" Tablet

M/N: NS-P10W8100

Mode:BT4.0 GFSK2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		37.7600	37.47	-14.93	22.54	40.00	-17.46	QP		
2		88.2000	46.92	-17.52	29.40	43.50	-14.10	QP		
3		176.4700	38.49	-16.69	21.80	43.50	-21.70	QP		
4	*	400.5400	42.71	-8.66	34.05	46.00	-11.95	QP		
5		600.3600	29.39	-3.78	25.61	46.00	-20.39	QP		
6		832.1900	27.99	-0.11	27.88	46.00	-18.12	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV Data #:764

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Appendix A
50089521 001



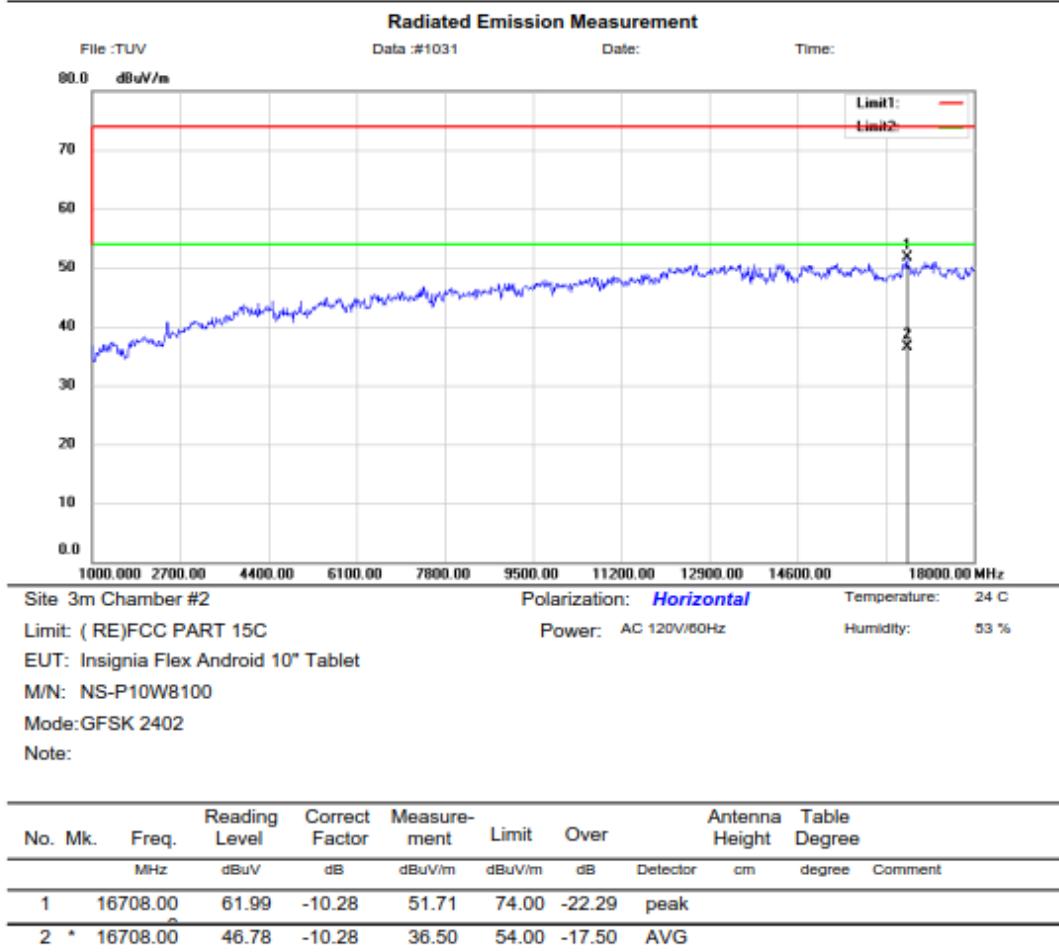
Produkte
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2.2 Transmitter Spurious Emissions, 1GHz - 18GHz

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EMTEK 
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*:Maximum data x:Over limit !:over margin

Operator: KK

File : TUV Data #:1031

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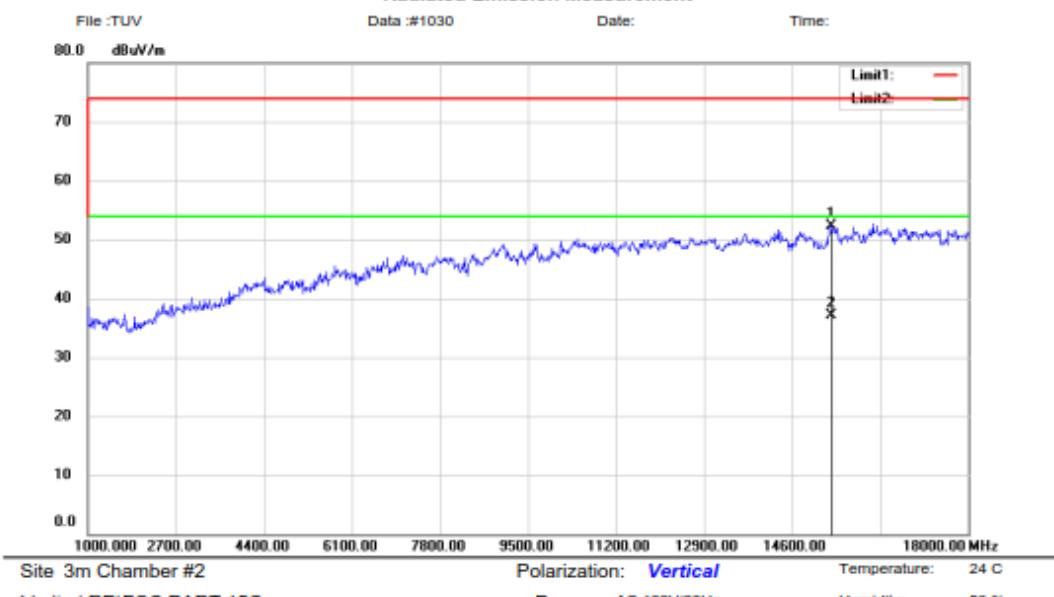
Produkte
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Radiated Emission Measurement



Site 3m Chamber #2

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Insignia Flex Android 10" Tablet

M/N: NS-P10W8100

Mode:GFSK 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		15348.00	62.97	-10.69	52.28	74.00	-21.72	peak		
2	*	15348.00	47.89	-10.69	37.20	54.00	-16.80	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

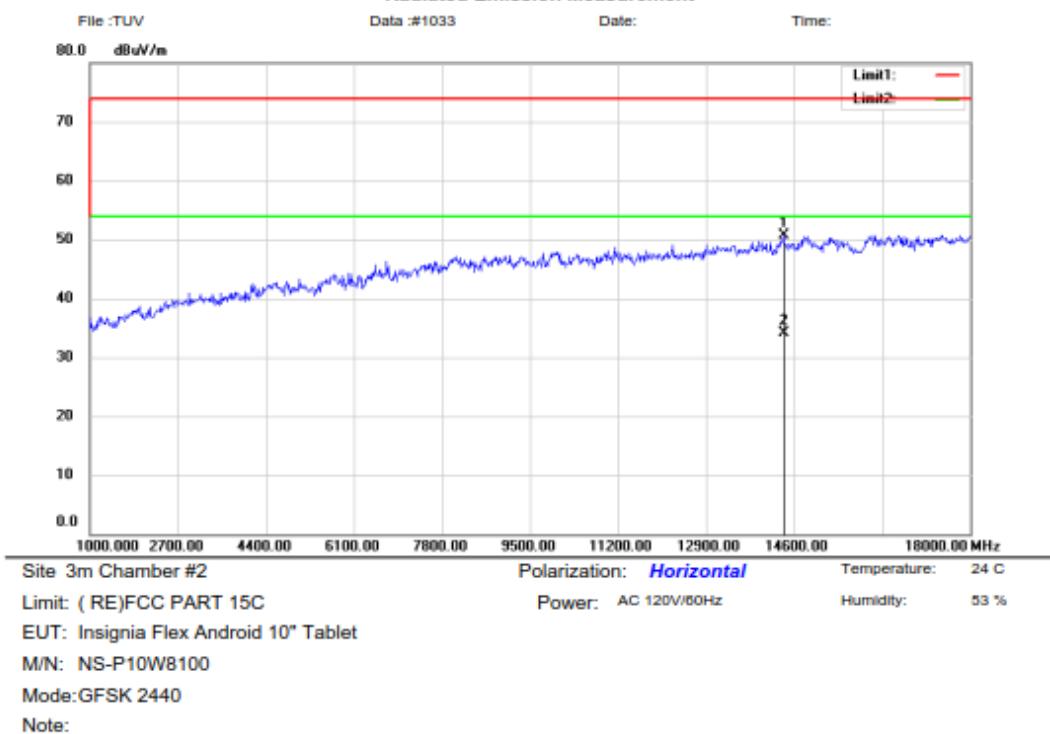
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Page: 1

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Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		14396.00	59.18	-8.52	50.66	74.00	-23.34	peak		
2	*	14396.00	42.72	-8.52	34.20	54.00	-19.80	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

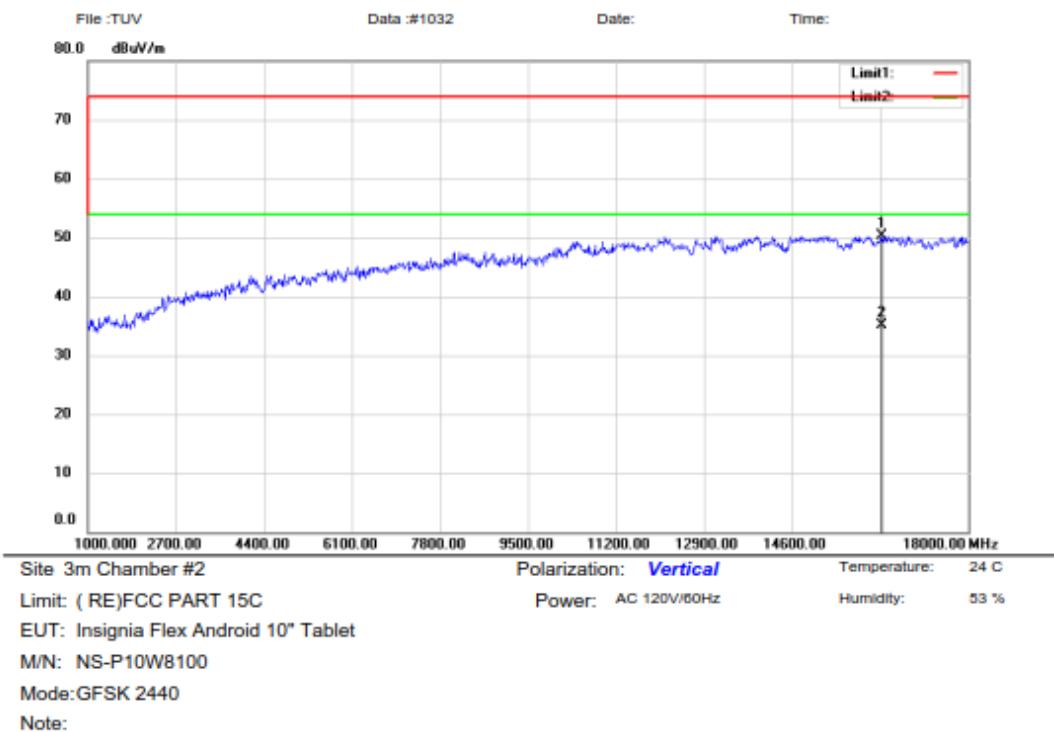
File :TUV Data #:1033

Page: 1

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Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		16334.00	61.93	-11.59	50.34	74.00	-23.66	peak		
2	*	16334.00	46.69	-11.59	35.10	54.00	-18.90	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV Data #:1032

Page: 1

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Access to the World

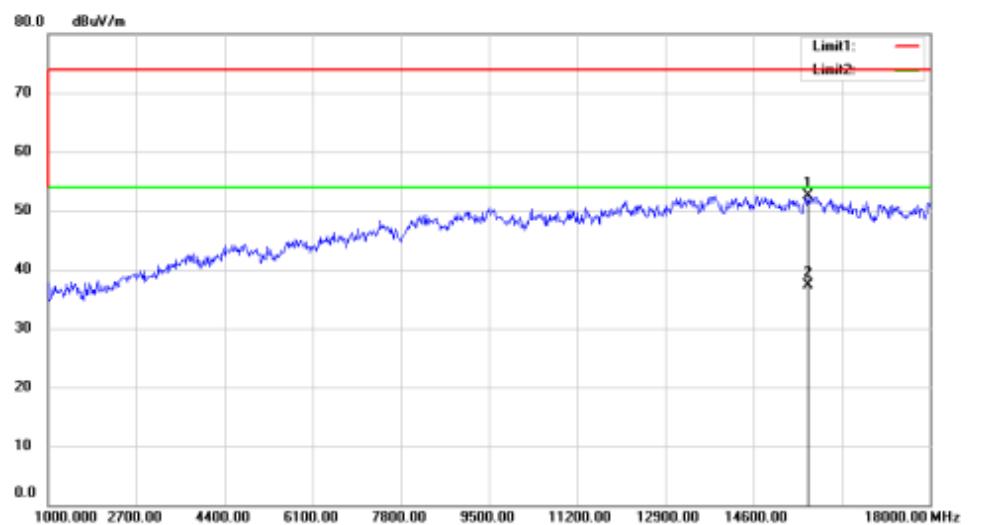
Radiated Emission Measurement

File :TUV

Data #:1035

Date:

Time:



Site 3m Chamber #2

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Insignia Flex Android 10" Tablet

M/N: NS-P10W8100

Mode:GFSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		15654.00	64.10	-11.66	52.44	74.00	-21.56	peak		
2	*	15654.00	49.06	-11.66	37.40	54.00	-16.60	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

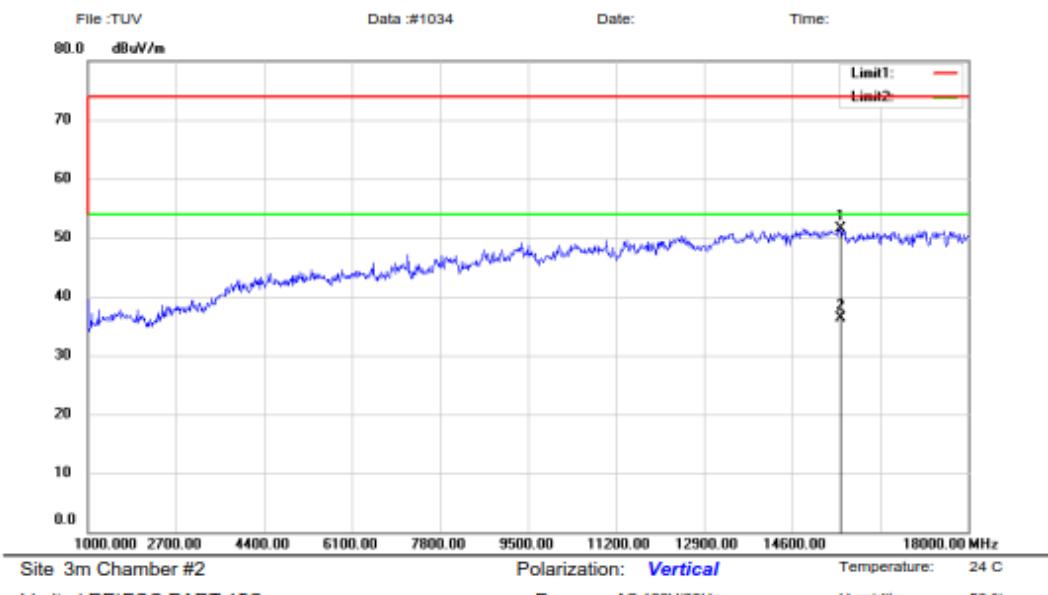
File :TUV Data #:1035

Page: 1

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Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		15535.00	62.76	-11.28	51.48	74.00	-22.52	peak		
2 *		15535.00	47.58	-11.28	36.30	54.00	-17.70	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData #:1034

Page: 1

Appendix A
50089521 001



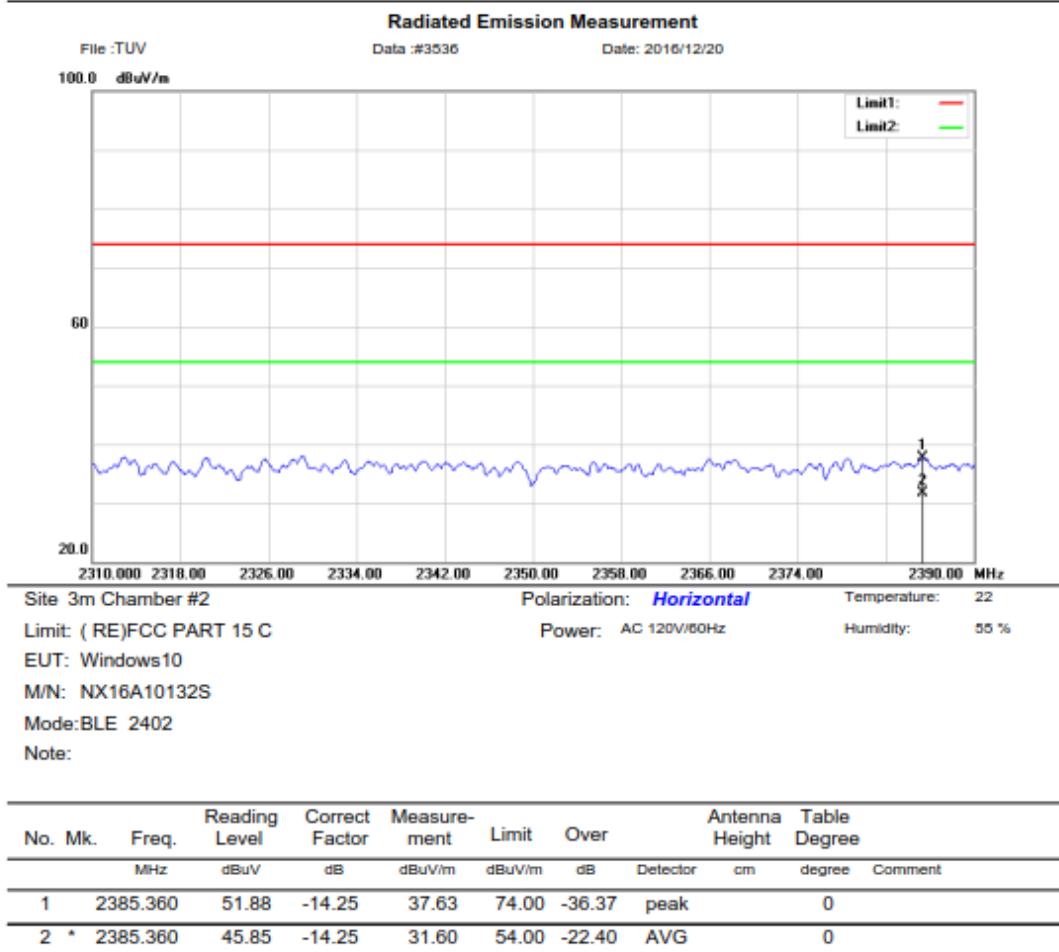
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Products

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2.3 Restricted Bands

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*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV Data :#3536

Page: 1

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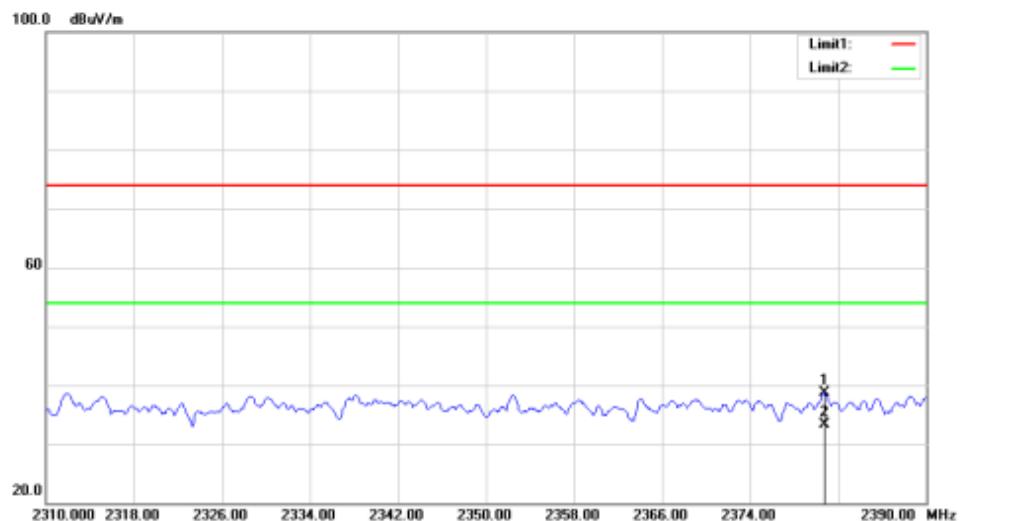

EMTEK Access to the World

Radiated Emission Measurement

File :TUV

Data :#3535

Date: 2016/12/20



Site 3m Chamber #2

Limit: (RE)FCC PART 15 C

EUT: Windows10

M/N: NX16A10132S

Mode:BLE 2402

Note:

Polarization: **Vertical**

Temperature: 22

Power: AC 120V/60Hz

Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2380.720	52.89	-14.26	38.63	74.00	-35.37	peak	0	
2 *		2380.720	47.66	-14.26	33.40	54.00	-20.60	AVG	0	

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV Data :#3535

Page: 1

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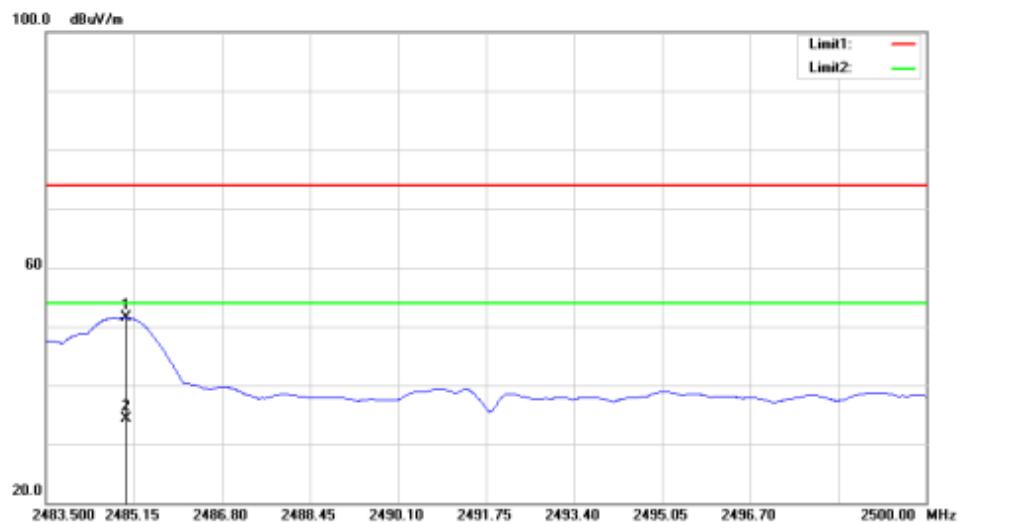

EMTEK Access to the World

Radiated Emission Measurement

File :TUV

Data #:3537

Date: 2016/12/20



Site 3m Chamber #2

Polarization: **Horizontal**

Temperature: 22

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Windows10

M/N: NX16A10132S

Mode:BLE 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2485.001	65.29	-13.75	51.54	74.00	-22.46	peak	0	
2 *		2485.001	48.05	-13.75	34.30	54.00	-19.70	AVG	0	

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV Data #:3537

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50089521 001



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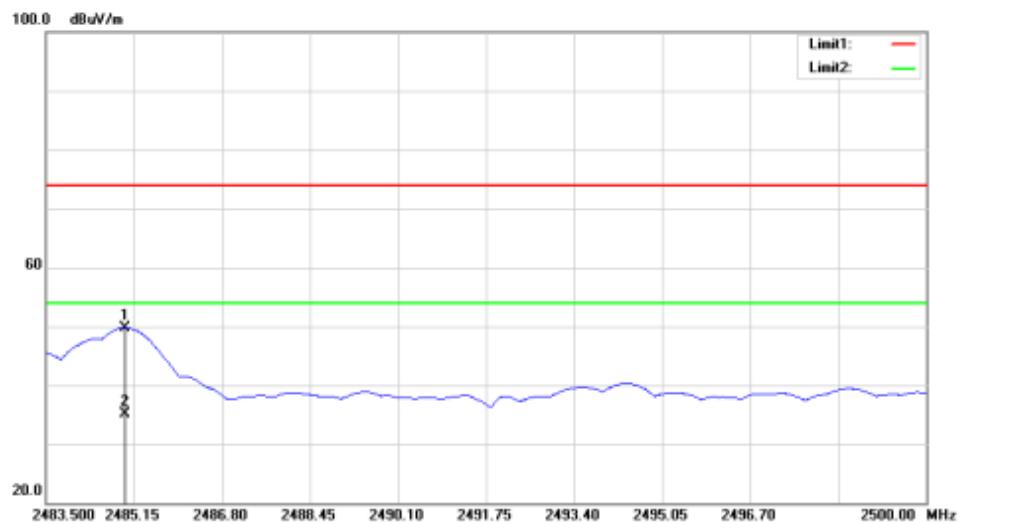
EMTEK
Access to the World

Radiated Emission Measurement

File :TUV

Data :#3535

Date: 2016/12/20



Site 3m Chamber #2

Polarization: **Vertical**

Temperature: 22

Limit: (RE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Windows10

M/N: NX16A10132S

Mode:BLE 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2484.985	63.53	-13.75	49.78	74.00	-24.22	peak	0		
2 *		2484.985	48.85	-13.75	35.10	54.00	-18.90	AVG	0		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV Data :#3538

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Appendix A
50089521 001



Produkte
Products

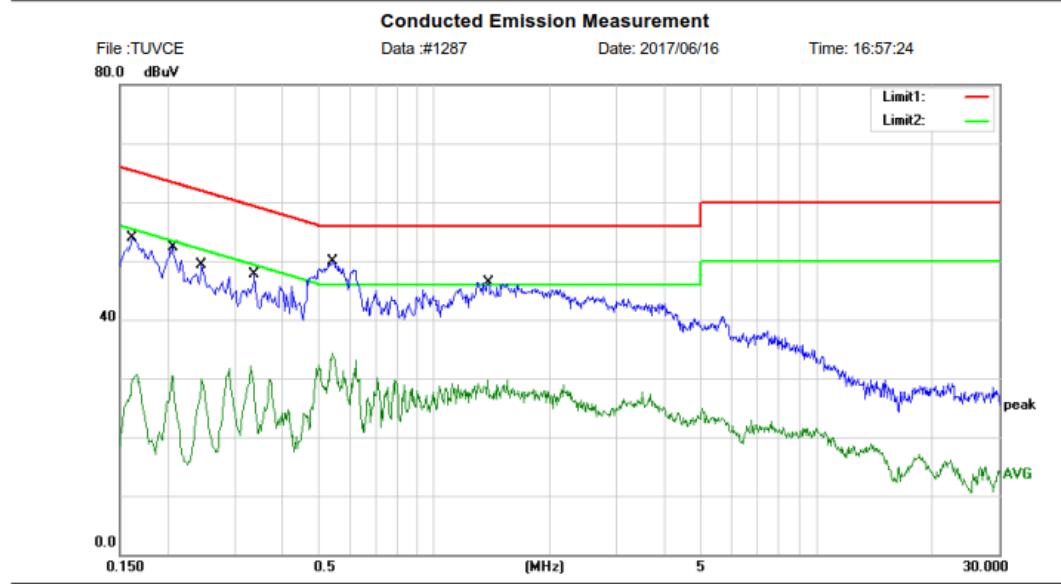
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3. Conducted Emissions

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dB			
1		0.1620	44.20	9.62	53.82	65.36	-11.54	QP	
2		0.1620	21.10	9.62	30.72	55.36	-24.64	AVG	
3		0.2061	42.64	9.63	52.27	63.36	-11.09	QP	
4		0.2061	20.84	9.63	30.47	53.36	-22.89	AVG	
5		0.2460	39.59	9.64	49.23	61.89	-12.66	QP	
6		0.2460	20.29	9.64	29.93	51.89	-21.96	AVG	
7		0.3380	37.96	9.67	47.63	59.25	-11.62	QP	
8		0.3380	22.45	9.67	32.12	49.25	-17.13	AVG	
9 *		0.5420	40.09	9.73	49.82	56.00	-6.18	QP	
10		0.5420	24.51	9.73	34.24	46.00	-11.76	AVG	
11		1.3820	36.48	9.85	46.33	56.00	-9.67	QP	
12		1.3820	19.85	9.85	29.70	46.00	-16.30	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: CSL

File :TUVCE\1287

Page: 1

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Access to the World

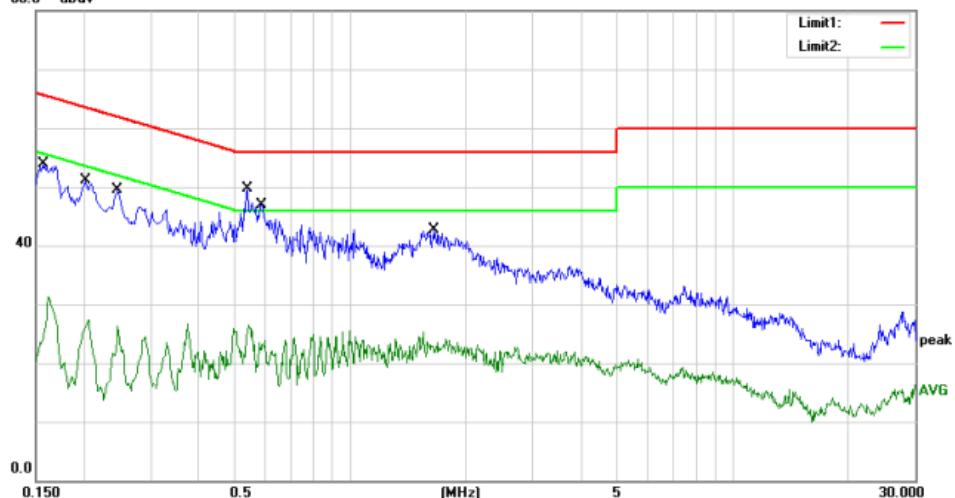
Conducted Emission Measurement

File :TUVCE
80.0 dBuV

Data #:1286

Date: 2017/06/16

Time: 16:55:16



Site Conduction #1

Phase: **N**

Temperature: 21

Limit: (CE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 53 %

EUT:

M/N: NS-P10W8100

Mode: WIFI+BT ON

Note: EUT:Insignia Flex Windows 10" Tablet with Keyboard

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dB	Over	Detector	Comment
1		0.1580	44.26	9.62	53.88	65.57 -11.69		QP	
2		0.1580	21.74	9.62	31.36	55.57 -24.21		AVG	
3		0.2020	41.47	9.63	51.10	63.53 -12.43		QP	
4		0.2020	17.74	9.63	27.37	53.53 -26.16		AVG	
5		0.2460	39.91	9.64	49.55	61.89 -12.34		QP	
6		0.2460	16.58	9.64	26.22	51.89 -25.67		AVG	
7	*	0.5380	40.03	9.72	49.75	56.00 -6.25		QP	
8		0.5380	16.86	9.72	26.58	46.00 -19.42		AVG	
9		0.5860	37.07	9.74	46.81	56.00 -9.19		QP	
10		0.5860	14.26	9.74	24.00	46.00 -22.00		AVG	
11		1.6540	32.81	9.85	42.66	56.00 -13.34		QP	
12		1.6540	15.53	9.85	25.38	46.00 -20.62		AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: CSL

File :TUVCE\Data #:1286

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