





RADIO TEST REPORT FCC ID: IKQNEXC2

Product:Dual Channel Full HD Smart Dash
CameraTrade Mark:SCOSCHEModel No.:NEXC2Family Model:N/AReport No.:S19032201910002Issue Date:26 Jul. 2019

Prepared for

Scosche Industries Inc 1550 Pacific Ave Oxnard, CA 93033, United States

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China Tel.: +86-755-6115 6588 Fax.: +86-755-6115 6599 Website:http://www.ntek.org.cn





TABLE OF CONTENTS

1	TES	ST RESULT CERTIFICATION	3
2	SUI	MMARY OF TEST RESULTS	4
3	FAC	CILITIES AND ACCREDITATIONS	5
	3.1 3.2 3.3	FACILITIES LABORATORY ACCREDITATIONS AND LISTINGS MEASUREMENT UNCERTAINTY	5
4	GEI	NERAL DESCRIPTION OF EUT	6
5	DES	SCRIPTION OF TEST MODES	8
6	SET	TUP OF EQUIPMENT UNDER TEST	9
	6.1 6.2 6.3	BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM SUPPORT EQUIPMENT EQUIPMENTS LIST FOR ALL TEST ITEMS	
7	TES	ST REQUIREMENTS	13
	7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8	CONDUCTED EMISSIONS TEST RADIATED SPURIOUS EMISSION 6DB BANDWIDTH	18 27 30 33 36 38

NTEK北测



1 TEST RESULT CERTIFICATION

Applicant's name:	Scosche Industries Inc	
Address 1550 Pacific Ave Oxnard, CA 93033, United States		
Manufacturer's Name:	Scosche Industries Inc	
Address 1550 Pacific Ave Oxnard, CA 93033, United States		
Product description		
Product name:	Dual Channel Full HD Smart Dash Camera	
Model and/or type reference:	NEXC2	
Family Model:	N/A	

Measurement Procedure Used:

APPLICABLE STANDARDS

APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT
FCC 47 CFR Part 2, Subpart J	
FCC 47 CFR Part 15, Subpart C	
KDB 174176 D01 Line Conducted FAQ v01r01	Complied
ANSI C63.10-2013	
KDB 558074 D01 15.247 Meas Guidance v05r02	

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

This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK Testing Technology Co., Ltd., this document may be altered or revised by Shenzhen NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

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

Date of Test	: 28 May. 2019 ~ 25 Jul. 2019
Testing Engineer	hrang. Hu
	(Mary Hu)
Technical Manager	Jason chen
	(Jason Chen)
	Sam. Chew
Authorized Signatory	: <u></u>
	(Sam Chen)





2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C							
Standard Section Test Item Verdict Remar							
15.207	Conducted Emission	PASS					
15.247 (a)(2)	6dB Bandwidth	PASS					
15.247 (b) Peak Output Power		PASS					
15.209 (a) 15.205 (a)	Radiated Spurious Emission						
15.247 (e)	Power Spectral Density	PASS					
15.247 (d) Band Edge Emission		PASS					
15.247 (d) Spurious RF Conducted Emission		PASS					
15.203 Antenna Requirement PASS		PASS					

Remark:

- "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during the test.





3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

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

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

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

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab.	: The Laboratory has been assessed and proved to be in compliance with
	CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
	The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized
	International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined
	scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang
	Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%





4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification					
Equipment Dual Channel Full HD Smart Dash Camera					
Trade Mark	SCOSCHE				
FCC ID	IKQNEXC2				
Model No.	NEXC2				
Family Model	N/A				
Model Difference	N/A				
Operating Frequency	2402MHz~2480MHz				
Modulation	GFSK				
Number of Channels	40 Channels				
Bluetooth Version	BT V4.2				
Antenna Type	FPCB Antenna				
Antenna Gain	1.9dBi				
Power supply	DC supply: DC 3.7V/550mAh from Battery or DC 5V from USB Port.				
	Adapter supply:				
HW Version	mini_SCO_NXR2019.03.05_L.pcb				
SW Version	3.3.33				

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.





Revision History

Report No.	Version	Description	Issued Date
S19032201910002	Rev.01	Initial issue of report	Jul 26, 2019





5 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	2402
1	2404
19	2440
20	2442
38	2478
39	2480

Note: fc=2402MHz+k×2MHz k=0 to 39

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Test Cases					
Test Item	Data Rate/ Modulation				
rest item	BT V4.2 / GFSK				
AC Conducted Emission	Mode 1: normal link mode				
	Mode 1: normal link mode				
Radiated Test	Mode 2: Bluetooth Tx Ch00_2402MHz_1Mbps				
Cases	Mode 3: Bluetooth Tx Ch19_2440MHz_1Mbps				
	Mode 4: Bluetooth Tx Ch39_2480MHz_1Mbps				
Conducted Test	Mode 2: Bluetooth Tx Ch00_2402MHz_1Mbps				
Conducted Test	Mode 3: Bluetooth Tx Ch19_2440MHz_1Mbps				
Cases	Mode 4: Bluetooth Tx Ch39_2480MHz_1Mbps				

Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

2. AC power line Conducted Emission was tested under maximum output power.

3. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

4. EUT is set to continuous transmission mode. duty cycle greater than 98%.

5. EUT built-in battery-powered, the battery is fully-charged.





SETUP OF EQUIPMENT UNDER TEST 6 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM For AC Conducted Emission Mode AC PLUG C-1 E-1 AE-1 EUT Adapter For Radiated Test Cases EUT For Conducted Test Cases Measurement C-2 EUT Instrument Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.





6.2 SUPPORT EQUIPMENT

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	NO	NO	1.2m
C-2	RF Cable	YES	NO	0.1m

Notes:

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





6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

		cst cquipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2019.05.13	2020.05.12	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2018.10.08	2019.10.07	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2018.10.08	2019.10.07	1 year
4	Test Receiver	R&S	ESPI7	101318	2019.05.13	2020.05.12	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2019.04.15	2020.04.14	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2018.05.19	2020.05.18	2 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2019.04.15	2020.04.14	1 year
8	Amplifier	EMC	EMC051835 SE	980246	2018.08.05	2019.08.04	1 year
9	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2018.08.05	2019.08.04	1 year
10	Power Meter	DARE	RPR3006W	15I00041SN 084	2018.08.05	2019.08.04	1 year
11	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2017.04.21	2020.04.20	3 year
12	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year
13	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2017.04.21	2020.04.20	3 year
15	Filter	TRILTHIC	2400MHz	29	2017.04.19	2020.04.18	3 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list





AC Co	AC Conduction Test equipment								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period		
1	Test Receiver	R&S	ESCI	101160	2019.05.13	2020.05.12	1 year		
2	LISN	R&S	ENV216	101313	2019.04.15	2020.04.14	1 year		
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2019.05.13	2020.05.12	1 year		
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2018.05.19	2020.05.18	2 year		
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2017.04.21	2020.04.20	3 year		
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2017.04.21	2020.04.20	3 year		
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2017.04.21	2020.04.20	3 year		

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.





7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a) and KDB 174176 D01 Line Conducted FAQ v01r01

7.1.2 Conformance Limit

	Conducted Emission Limit			
Frequency(MHz)	Quasi-peak	Average		
0.15-0.5	66-56*	56-46*		
0.5-5.0	56	46		
5.0-30.0	60	50		

Note: 1. *Decreases with the logarithm of the frequency

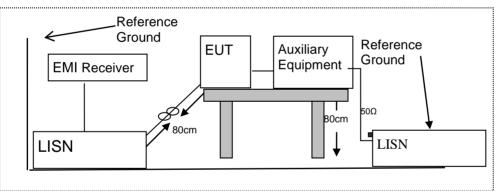
2. The lower limit shall apply at the transition frequencies

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

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

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item –EUT Test Photos.





7.1.6 Test Results

	Dual Channel Full HD Smart Dash Camera	Model Name :	NEXC2
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

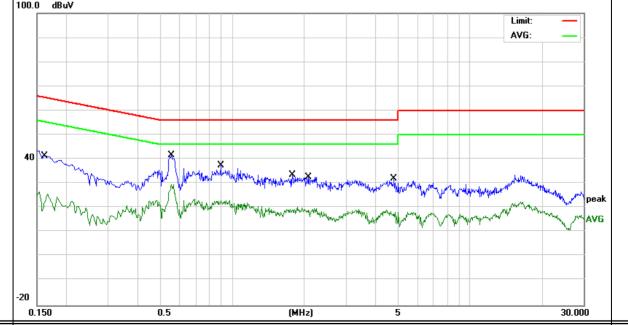
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demeril
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1620	31.55	9.76	41.31	65.36	-24.05	QP
0.1620	16.83	9.76	26.59	55.36	-28.77	AVG
0.5540	31.84	9.74	41.58	56.00	-14.42	QP
0.5540	20.03	9.74	29.77	46.00	-16.23	AVG
0.8940	27.64	9.74	37.38	56.00	-18.62	QP
0.8940	13.44	9.74	23.18	46.00	-22.82	AVG
1.7900	23.74	9.78	33.52	56.00	-22.48	QP
1.7900	9.77	9.78	19.55	46.00	-26.45	AVG
2.0940	22.96	9.78	32.74	56.00	-23.26	QP
2.0940	10.39	9.78	20.17	46.00	-25.83	AVG
4.7938	22.04	9.87	31.91	56.00	-24.09	QP
4.7938	9.18	9.87	19.05	46.00	-26.95	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.

100.0 dBuV







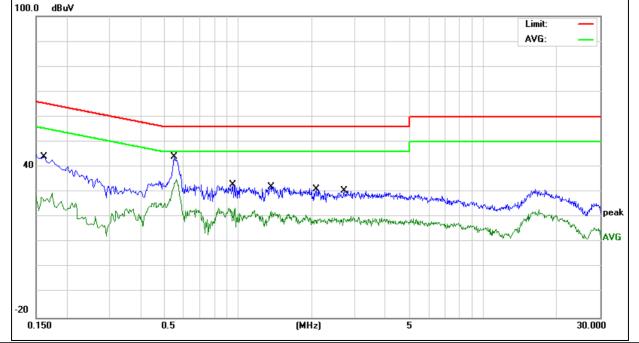
EUT: Dual Char Dash Can		innel Full HD S mera	nnel Full HD Smart nera Model Name :		me :	NEXC2		
Temperature:	nperature: 26 °C F		Relative Humidity:		54%			
Pressure:		1010hPa			Phase :		N	
Test Voltage :		DC 5V fro AC 120V	om Adapter /60Hz		Test Mode	9:	Mode 1	
				-				
Frequency	Read	ding Level	Correct Factor	Meas	sure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)		(dBµV)	(dBµV)	(dB)	Remark
0.1620	:	34.42	9.73		44.15	65.36	-21.21	QP
0.1620		18.38	9.73		28.11	55.36	-27.25	AVG
0.5500	:	34.33	9.75		44.08	56.00	-11.92	QP
0.5500	:	25.20	9.75		34.95	46.00	-11.05	AVG
0.9499		23.24	9.75		32.99	56.00	-23.01	QP
0.9499		13.98	9.75		23.73	46.00	-22.27	AVG
1.3619		22.39	9.76		32.15	56.00	-23.85	QP
1.3619		12.56	9.76		22.32	46.00	-23.68	AVG
2.0819	:	21.39	9.79		31.18	56.00	-24.82	QP
2.0819	,	11.01	9.79		20.80	46.00	-25.20	AVG
2.7139		20.67	9.84		30.51	56.00	-25.49	QP
2.7139		10.01	9.84		19.85	46.00	-26.15	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.

100.0 dBuV





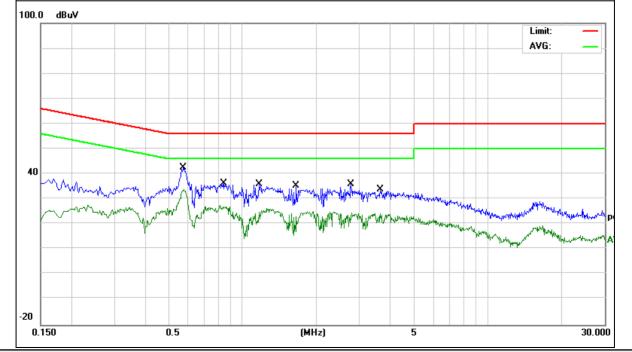


		Dual Channel Full HD Smart Dash Camera		:	NEXC	2		
Temperature:	perature: 26 °C Relative Humidity:		54%					
Pressure:		1010hPa		Phase :		L		
Test Voltage	:	DC 5V fro AC 240V	om Adapter /60Hz	Test Mode:		Mode	1	
Frequency	Rea	ding Level	Correct Factor	Measure-ment	Lim	its	Margin	- Remark
(MHz)	((dBµV)	(dB)	(dBµV)	(dBļ	ιV)	(dB)	Remain
0.5740		32.37	9.74	42.11	56.	00	-13.89	QP
0.5740		20.33	9.74	30.07	46.	00	-15.93	AVG
0.8180		28.22	9.74	37.96	56.	00	-18.04	QP
0.8180		15.89	9.74	25.63	46.	00	-20.37	AVG
1.1420		27.06	9.74	36.80	56.	00	-19.20	QP
1.1420		14.17	9.74	23.91	46.	00	-22.09	AVG
1.6900		26.23	9.77	36.00	56.	00	-20.00	QP
1.6900		12.37	9.77	22.14	46.	00	-23.86	AVG
2.0620		24.89	9.78	34.67	56.	00	-21.33	QP
2.0620		12.22	9.78	22.00	46.	00	-24.00	AVG
3.3380		24.58	9.84	34.42	56.	00	-21.58	QP
3.3380		11.07	9.84	20.91	46.	00	-25.09	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.





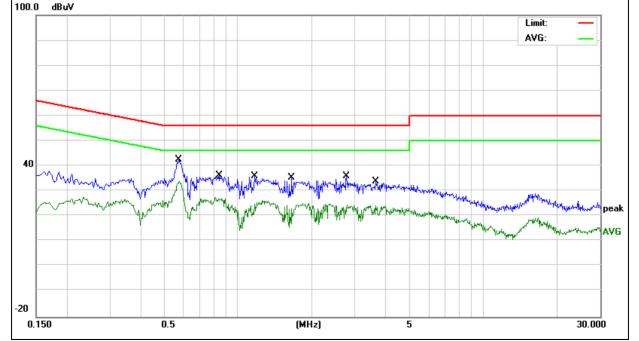


EUT: Dual Cha Dash Car		nannel Full HD Smart _N amera		Model Na	me :	NEXC2		
Temperature:	re: 26 °C Relative Humidity:		lumidity:	54%				
Pressure:		1010hPa			Phase :		N	
Test Voltage :		DC 5V fro AC 240V	om Adapter /60Hz		Test Mode	Э:	Mode 1	
Frequency	Rea	ding Level	Correct Factor	Meas	sure-ment	Limits	Margin	Demerik
(MHz)	((dBµV)	(dB)		(dBµV)	(dBµV)	(dB)	- Remark
0.5740		32.84	9.74		42.58	56.00	-13.42	QP
0.5740		24.25 9.74			33.99	46.00	-12.01	AVG
0.8420		26.53 9.74			36.27	56.00	-19.73	QP
0.8420		17.72	9.74		27.46	46.00	-18.54	AVG
1.1700		26.10	9.74		35.84	56.00	-20.16	QP
1.1700		16.48	9.74		26.22	46.00	-19.78	AVG
1.6620		25.55	9.77		35.32	56.00	-20.68	QP
1.6620		14.87	9.77		24.64	46.00	-21.36	AVG
2.7780		26.05	9.82		35.87	56.00	-20.13	QP
2.7780		14.82	9.82		24.64	46.00	-21.36	AVG
3.6580		24.01	9.84		33.85	56.00	-22.15	QP
3.6580		14.51	9.84		24.35	46.00	-21.65	AVG

Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

100.0 dBuV







7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

According to 1 CC 1 art 13.20	According to FCC Fait 15.205, Restricted bands						
MHz	MHz	MHz	GHz				
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15				
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46				
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75				
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5				
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2				
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5				
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7				
6.26775-6.26825	123-138	2200-2300	14.47-14.5				
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2				
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4				
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12				
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0				
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8				
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5				
12.57675-12.57725	322-335.4	3600-4400	(2)				
13.36-13.41							

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/	/m) (at 3M)
Frequency(iviniz)	PEAK	AVERAGE
Above 1000	74	54

Remark: 1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz: Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz: Distance extrapolation factor =20log(Specific distance/ test

distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.



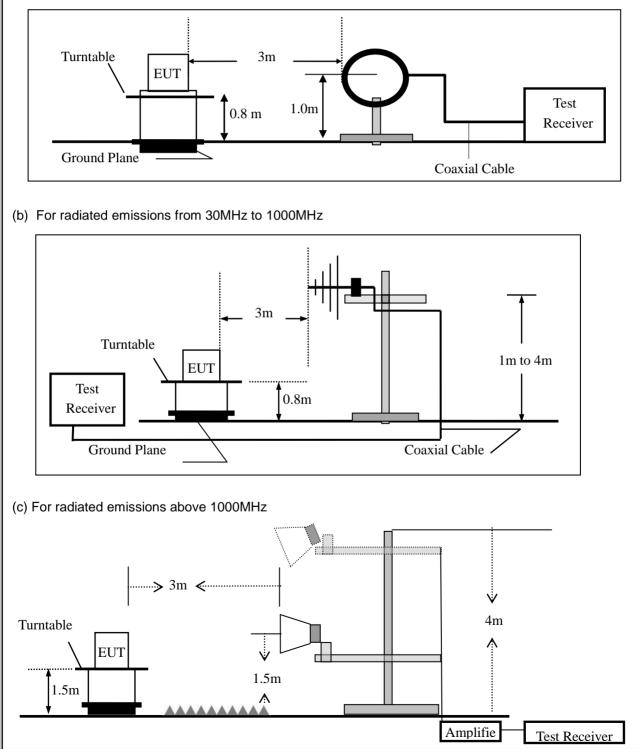


7.2.3 Measuring Instruments

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

7.2.4 Test Configuration

(a) For radiated emissions below 30MHz







7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.

- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

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





During the radiated emission t	est, the Spectrum An	alyzer was set with the follow	ving configurations:
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Ab 200	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

	Spurious	Emission	below 30MHz	(9KHz to 30MHz)	
--	----------	----------	-------------	-----------------	--

EUT:	Dual Channel Full HD Smart Dash Camera	Model No.:	NEXC2
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Freq.	Ant.Pol.	Emission L	.evel(dBuV/m)	Limit 3	m(dBuV/m)	Ove	r(dB)
(MHz)	H/V	PK	AV	PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.







Spurious Emission below 1GHz (30MHz to 1GHz)

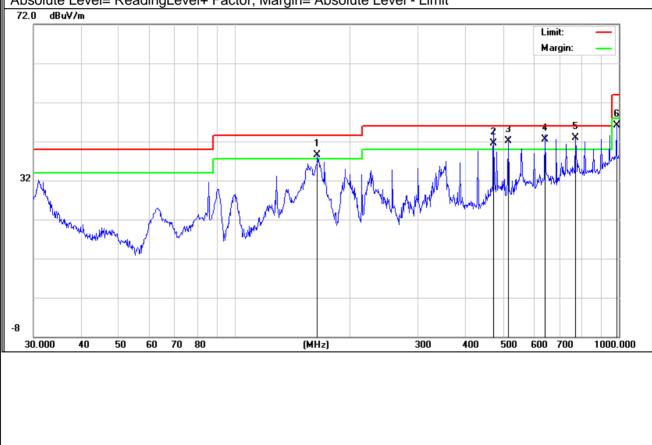
All the modulation modes have been tested, and the worst result was report as below:

EUT:	Dual Channel Full HD Smart Dash Camera	Model Name :	NEXC2
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010hPa	Test Mode:	Mode 1
Test Voltage :	DC 3.7V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
Polar (H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	164.3301	27.14	11.44	38.58	43.50	-4.92	QP
V	472.1760	20.53	21.07	41.60	46.00	-4.40	QP
V	515.4374	19.85	22.22	42.07	46.00	-3.93	QP
V	642.8613	17.88	24.72	42.60	46.00	-3.40	QP
V	771.4486	15.49	27.44	42.93	46.00	-3.07	QP
V	986.0717	15.17	30.95	46.12	54.00	-7.88	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit







(H/V) (MHz) (dBuV) (dB) (dBuV/m) (dBuV/m) (dB) H 282.9852 26.22 16.26 42.48 46.00 -3.52 QP H 351.7079 24.72 17.65 42.37 46.00 -3.63 QP H 515.4374 17.52 22.22 39.74 46.00 -6.26 QP H 687.1507 12.44 25.07 37.51 46.00 -8.49 QP H 945.4399 12.52 31.01 43.53 46.00 -8.49 QP H 986.0717 14.71 30.95 45.66 54.00 -8.34 QP Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit -	Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
H 351.7079 24.72 17.65 42.37 46.00 -3.63 QP H 515.4374 17.52 22.22 39.74 46.00 -6.26 QP H 687.1507 12.44 25.07 37.51 46.00 -8.49 QP H 945.4399 12.52 31.01 43.53 46.00 -2.47 QP H 986.0717 14.71 30.95 45.66 54.00 -8.34 QP Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit -2.47 QP 72.0 dBuV/m dBuV/m data and and and and and and and and and an	(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H 515.4374 17.52 22.22 39.74 46.00 -6.26 QP H 687.1507 12.44 25.07 37.51 46.00 -8.49 QP H 945.4399 12.52 31.01 43.53 46.00 -2.47 QP H 986.0717 14.71 30.95 45.66 54.00 -8.34 QP Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m dBuV/m dBuV/m fmargin: fmargin: </th <td>Н</td> <td>282.9852</td> <td>26.22</td> <td>16.26</td> <td>42.48</td> <td>46.00</td> <td>-3.52</td> <td>QP</td>	Н	282.9852	26.22	16.26	42.48	46.00	-3.52	QP
H 687.1507 12.44 25.07 37.51 46.00 -8.49 QP H 945.4399 12.52 31.01 43.53 46.00 -2.47 QP H 986.0717 14.71 30.95 45.66 54.00 -8.34 QP Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m dBuV/m dimit: <	Н	351.7079	24.72	17.65	42.37	46.00	-3.63	QP
H 945.4399 12.52 31.01 43.53 46.00 -2.47 QP H 986.0717 14.71 30.95 45.66 54.00 -8.34 QP Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m Imit: Imit: <td>Н</td> <td>515.4374</td> <td>17.52</td> <td>22.22</td> <td>39.74</td> <td>46.00</td> <td>-6.26</td> <td>QP</td>	Н	515.4374	17.52	22.22	39.74	46.00	-6.26	QP
H 986.0717 14.71 30.95 45.66 54.00 -8.34 QP Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m	Н	687.1507	12.44	25.07	37.51	46.00	-8.49	QP
Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m	Н	945.4399	12.52	31.01	43.53	46.00	-2.47	QP
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m	Н	986.0717	14.71	30.95	45.66	54.00	-8.34	QP
			underender	www.htt		Å. I	Margin:	SX X X X X X X X X X X X X X X X X X X
	30.000	40 50 60	70 80	(MH		300 400	500 600 700	1000.000





Spuriou	us Emissio		1GHz (10		25GI	Hz)					
EUT:			hannel Ful Dash Cam		Mode	el No.:		NE	XC2		
Temperatu	re:	20 ℃			Rela	tive Humid	ity:	48%	%		
Test Mode:		Mode2/	/Mode3/Mo	ode4	Test	By:		Ма	ry Hu		
						•					
Frequenc	Read	Cable	Antenna	Prea	mp	Emission	Limi	te	Margin		
у	Level	loss	Factor	Fact		Level				Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dE	,	(dBµV/m)		,	(dB)		
						402 MHz)-					
4804.77	62.65	5.21	35.59	44.3	30	59.15	74.0	0	-14.85	Pk	Vertical
4804.77	49.29	5.21	35.59	44.3	30	45.79	54.0	0	-8.21	AV	Vertical
7206.92	61.40	6.48	36.27	44.6	60	59.55	74.0	0	-14.45	Pk	Vertical
7206.92	42.68	6.48	36.27	44.6	50	40.83	54.0	0	-13.17	AV	Vertical
4804.69	63.65	5.21	35.55	44.3	30	60.11	74.0	0	-13.89	Pk	Horizontal
4804.69	46.41	5.21	35.55	44.3	30	42.87	54.0	0	-11.13	AV	Horizontal
7206.97	65.42	6.48	36.27	44.5	52	63.65	74.0	0	-10.35	Pk	Horizontal
7206.97	46.41	6.48	36.27	44.5	52	44.64	54.0	0	-9.36	AV	Horizontal
			Mid	Chann	el (2-	440 MHz)-/	Above '	1G			
4879.73	63.71	5.21	35.66	44.2	20	60.38	74.0	0	-13.62	Pk	Vertical
4879.73	43.68	5.21	35.66	44.2	20	40.35	54.0	0	-13.65	AV	Vertical
73219.9	62.68	7.10	36.50	44.4	13	61.85	74.0	0	-12.15	Pk	Vertical
73219.9	43.38	7.10	36.50	44.4	13	42.55	54.0	0	-11.45	AV	Vertical
4879.73	61.42	5.21	35.66	44.2	20	58.09	74.0	0	-15.91	Pk	Horizontal
4879.73	42.32	5.21	35.66	44.2	20	38.99	54.0	0	-15.01	AV	Horizontal
73219.9	62.71	7.10	36.50	44.4	13	61.88	74.0	0	-12.12	Pk	Horizontal
73219.9	46.98	7.10	36.50	44.4	13	46.15	54.0	0	-7.85	AV	Horizontal
			High	Chann	nel (2	480 MHz)-	Above	1G			
4960.72	63.11	5.21	35.52	44.2	21	59.63	74.0	0	-14.37	Pk	Vertical
4960.72	43.18	5.21	35.52	44.2	21	39.70	54.0	0	-14.30	AV	Vertical
7440.78	62.58	7.10	36.53	44.6	50	61.61	74.0	0	-12.39	Pk	Vertical
7440.78	42.34	7.10	36.53	44.6	60	41.37	54.0	0	-12.63	AV	Vertical
4960.85	61.14	5.21	35.52	44.2	21	57.66	74.0	0	-16.34	Pk	Horizontal
4960.85	44.19	5.21	35.52	44.2	21	40.71	54.0	0	-13.29	AV	Horizontal
7440.86	64.04	7.10	36.53	44.6	60	63.07	74.0	0	-10.93	Pk	Horizontal
7440.86	44.95	7.10	36.53	44.6	50	43.98	54.0	0	-10.02	AV	Horizontal

Note: (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
(2) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor
(3)All other emissions more than 20dB below the limit.





EUT:			annel Full H ash Camer	1.1	ode	l No.:	I	NEX	C2		
Temperatu	ure:	20 ℃		R	elati	ve Humidit	ty: 4	48%			
Test Mode):	Mode2/ M	Mode4	Те	est E	Зу:	I	Mary	/ Hu		
Frequenc		Cable	Antenna	Prear	•	Emission	Limit	ts	Margin	Detector	-
y (MHz)	Reading (dBµV)	Loss (dB)	Factor dB/m	Facto (dB	-	Level (dBµV/m)			(dB)	Туре	Comment
	· · /	. ,			GF	SK	· · ·				
2310.00	62.58	2.97	27.80	43.8	0	49.55	74		-24.45	Pk	Horizonta
2310.00	45.69	2.97	27.80	43.8	0	32.66	54		-21.34	AV	Horizonta
2310.00	60.25	2.97	27.80	43.8	0	47.22	74		-26.78	Pk	Vertical
2310.00	45.98	2.97	27.80	43.8	0	32.95	54		-21.05	AV	Vertical
2390.00	60.54	3.14	27.21	43.8	0	47.09	74		-26.91	Pk	Vertical
2390.00	48.54	3.14	27.21	43.8	0	35.09	54		-18.91	AV	Vertical
2390.00	61.58	3.14	27.21	43.8	0	48.13	74		-25.87	Pk	Horizonta
2390.00	50.48	3.14	27.21	43.8	0	37.03	54		-16.97	AV	Horizonta
2483.50	59.68	3.58	27.70	44.0	0	46.96	74		-27.04	Pk	Vertical
2483.50	38.59	3.58	27.70	44.0	0	25.87	54		-28.13	AV	Vertical
2483.50	61.58	3.58	27.70	44.0	0	48.86	74		-25.14	Pk	Horizonta
2483.50	42.51	3.58	27.70	44.0	0	29.79	54		-24.21	AV	Horizonta

Note: (1) All other emissions more than 20dB below the limit.





UT:			al Channe art Dash	el Full HD Camera	Model N	No.:	N	IEXC2		
emp	erature:	20	°C		Relative	e Humidity:	4	8%		
est N	Node:	Мо	Mode2/ Mode4			:	N	1ary Hu		
	Frequenc v	Readin a Level		Antenn a	Preamp Factor	Emission Level	Limit	ts Margi	n Detecto	
	(MHz)	(dBµV)		dB/m	(dB)	(dBµ V/m)	(dBj V/m		Туре	Comment
	3260	64.79	4.04	29.57	44.70	53.70	74	-20.3) Pk	Vertical
	3260	45.96	4.04	29.57	44.70	34.87	54	-19.1	3 AV	Vertical
	3260	63.97	4.04	29.57	44.70	52.88	74	-21.1	2 Pk	Horizontal
	3260	49.25	4.04	29.57	44.70	38.16	54	-15.8	4 AV	Horizontal
	3332	66.96	4.26	29.87	44.40	56.69	74	-17.3	1 Pk	Vertical
	3332	50.5	4.26	29.87	44.40	40.23	54	-13.7	7 AV	Vertical
	3332	67.81	4.26	29.87	44.40	57.54	74	-16.4	6 Pk	Horizontal
	3332	50.36	4.26	29.87	44.40	40.09	54	-13.9	1 AV	Horizontal
	17797	46.89	10.99	43.95	43.50	58.33	74	-15.6	7 Pk	Vertical
	17797	31.5	10.99	43.95	43.50	42.94	54	-11.0	6 AV	Vertical
	17788	49.12	11.81	43.69	44.60	60.02	74	-13.9	B Pk	Horizontal
	17788	30.49	11.81	43.69	44.60	41.39	54	-12.6	1 AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.





7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

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

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10

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

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

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \ge 3*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

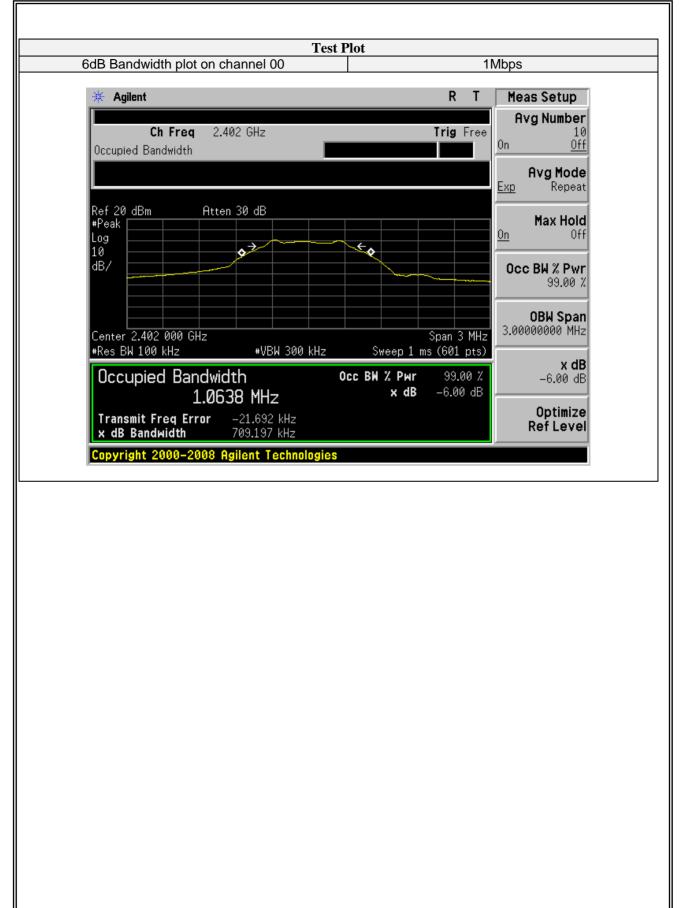
7.3.6 Test Results

	Dual Channel Full HD Smart Dash Camera	Model No.:	NEXC2
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Channel	Frequency (MHz)	6dB bandwidth (kHz)	Limit (kHz)	Result
Low	2402	709.197	≥500	Pass
Middle	2440	711.048	≥500	Pass
High	2480	704.732	≥500	Pass

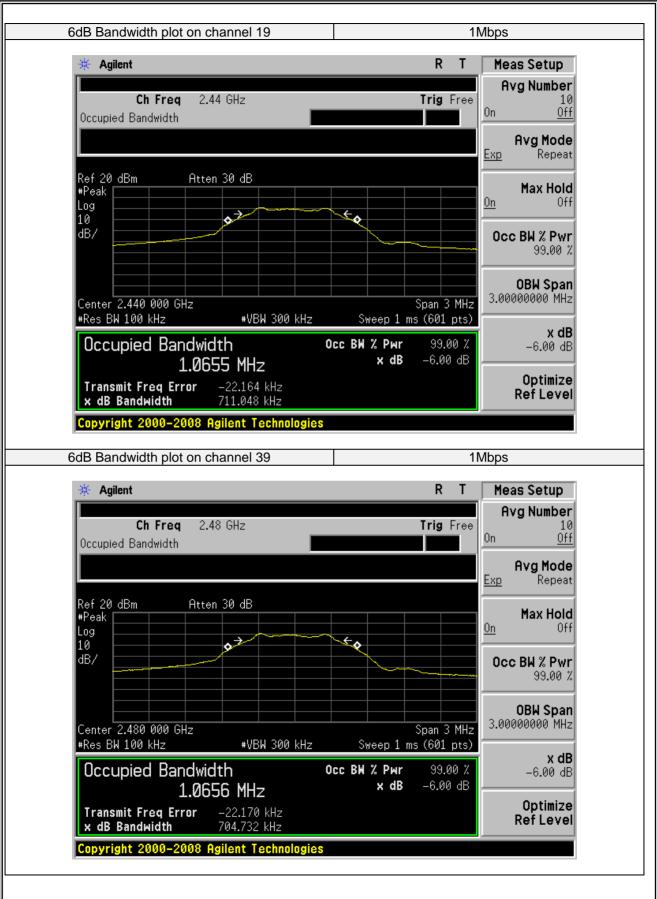
















7.4 PEAK OUTPUT POWER

7.4.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.1.

7.4.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.4.3 Measuring Instruments

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

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The testing follows Subclause 11.9.1.1 of ANSI C63.10 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Set the RBW \geq DTS bandwidth. Set VBW =3*RBW. Set the span \geq 3*RBW Set Sweep time = auto couple. Set Detector = peak. Set Trace mode = max hold. Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

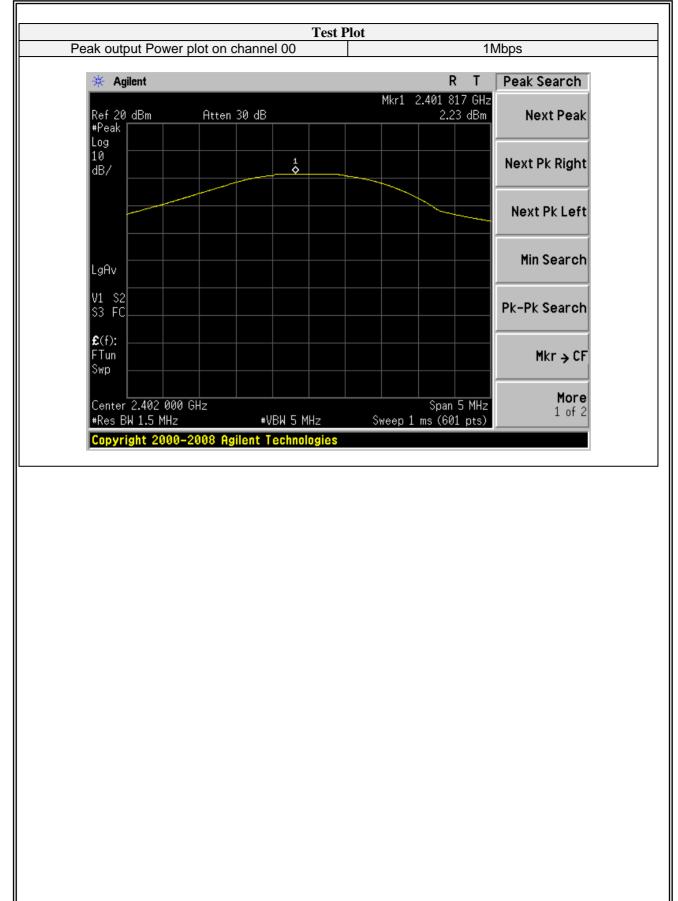
7.4.6 Test Results

	Dual Channel Full HD Smart Dash Camera	Model No.:	NEXC2
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Test Channel	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	LIMIT (dBm)	Verdict		
1Mbps							
00	2402	Default	2.23	30	PASS		
19	2440	Default	2.80	30	PASS		
39	2480	Default	2.05	30	PASS		

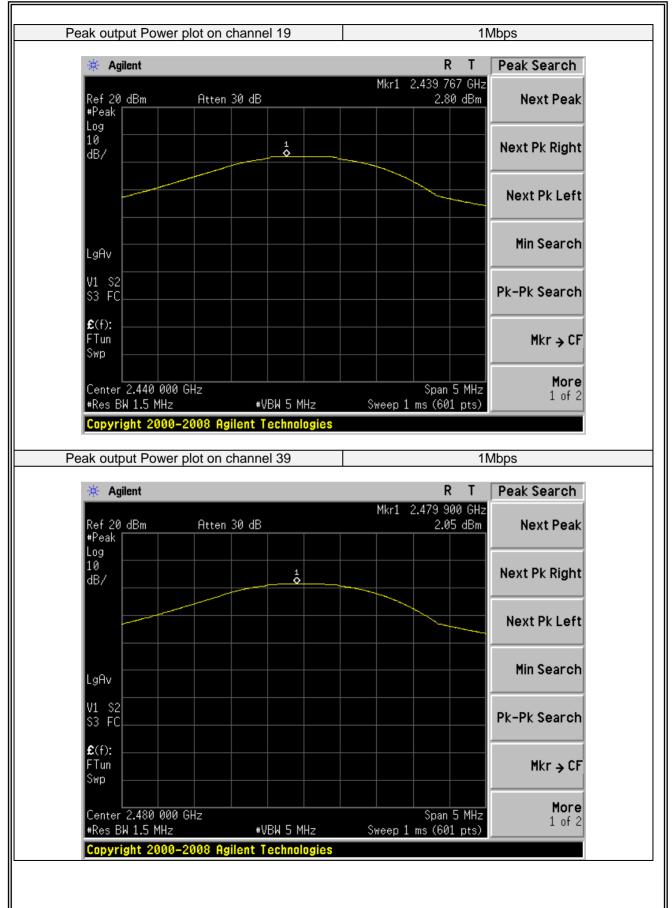
















7.5 POWER SPECTRAL DENSITY

7.5.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.5.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.5.3 Measuring Instruments

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

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10 This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

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

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

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

a) Set analyzer center frequency to DTS channel center frequency.

- b) Set the span to 1.5*DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW \geq 3 RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



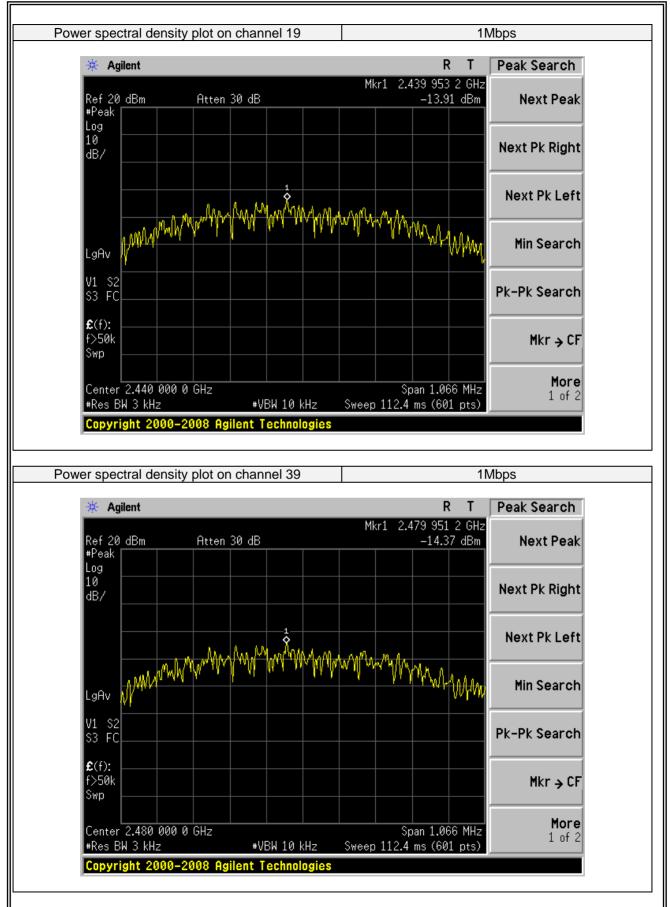


7.5.6 Test Results

EUT:	Smart Dash	el Full HD Camera	Model No.: NEXC2			
Temperature:	perature: 20 °C		Relative Humidity:		48%	
Test Mode:	est Mode: Mode2/Mode3/Mode4		est By:		Mary Hu	
Test Channel	Frequency	Power D		, .	Limit	Verdict
	(MHz)	(dBm/3	3KHz) 1Mbps	(d	Bm/3KHz)	
00	2402	-14.			8	PASS
19	2440	-13.91			8	PASS
39	2480	-14.	37		8	PASS
Power spe	ctral density plot o	n channel 00	Test Plot		11	<i>I</i> lbps
* A	gilent				RT	Peak Search
	5		М	kr1 2.40	1 953 2 GHz	
Ref 20 #Peak	Ref 20 dBm Atten 30 dB				-14.12 dBm	Next Peak
Log						
10 dB/						Next Pk Right
	4.	A. M. Ann				Next Pk Left
	Anna ann ann ann ann ann ann ann ann ann		~WWWWW	MAM	N A 4 4	
LgAv	Makeda			1.1	WM	Min Search
V1 S2 S3 FC						Pk-Pk Search
£ (f):						
f>50k Swp						Mkr → CF
					1	
	r 2.402 000 0 GHz				n 1.066 MHz	More 1 of 2
	3W 3 kHz	#VBW 10 k	Hz Sween	o 112.4 m:	s (601 pts)	











7.6 CONDUCTED BAND EDGE MEASUREMENT

7.6.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

7.6.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.6.3 Measuring Instruments

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

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

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

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

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

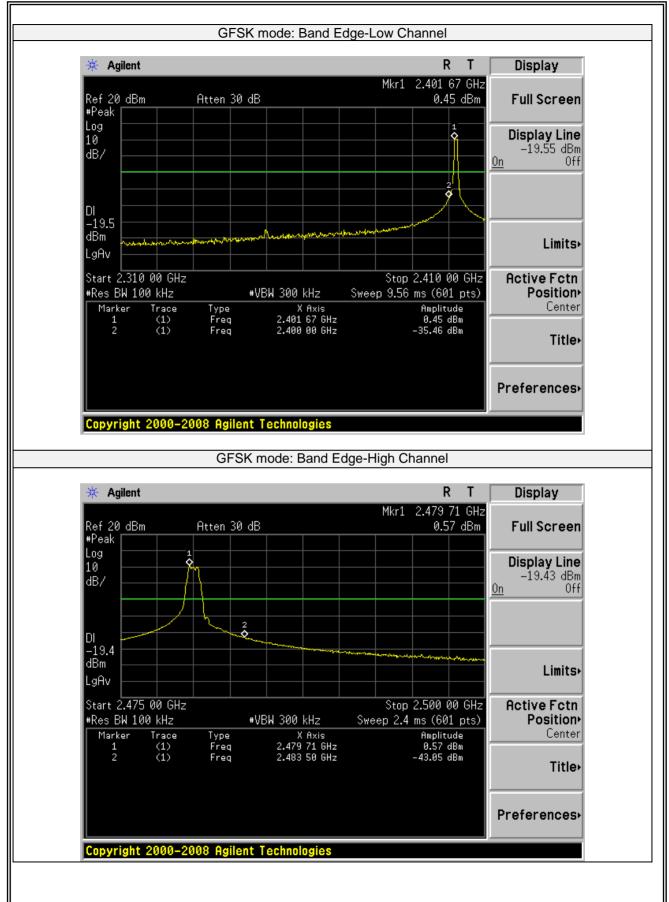
Repeat above procedures until all measured frequencies were complete.

7.6.6 Test Results

EUT:	Dual Channel Full HD Smart Dash Camera	Model No.:	NEXC2
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Mary Hu











7.7 SPURIOUS RF CONDUCTED EMISSIONS

7.7.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.7.2 Measuring Instruments

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

7.7.3 Test Setup

Please refer to Section 6.1 of this test report.

7.7.4 Test Procedure

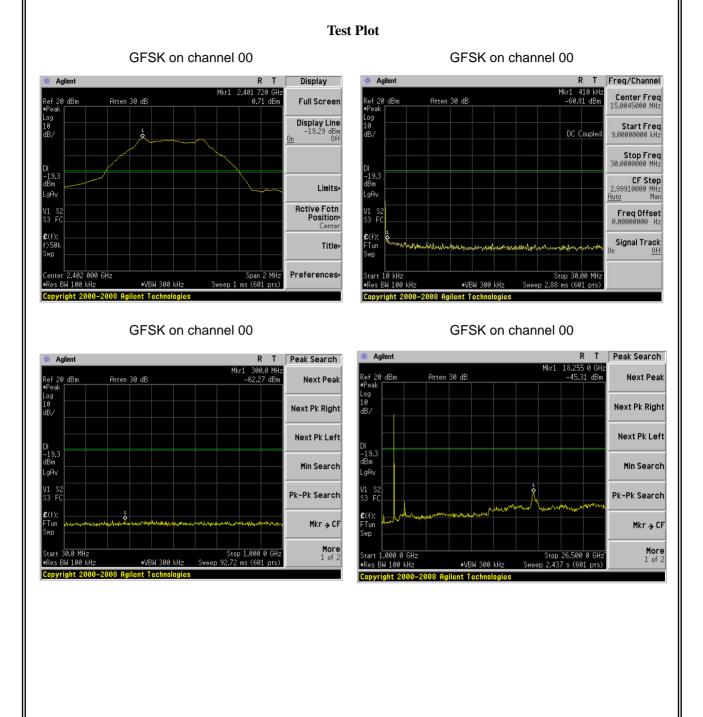
The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequeny range from 9KHz to 26.5GHz.

7.7.5 Test Results

Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

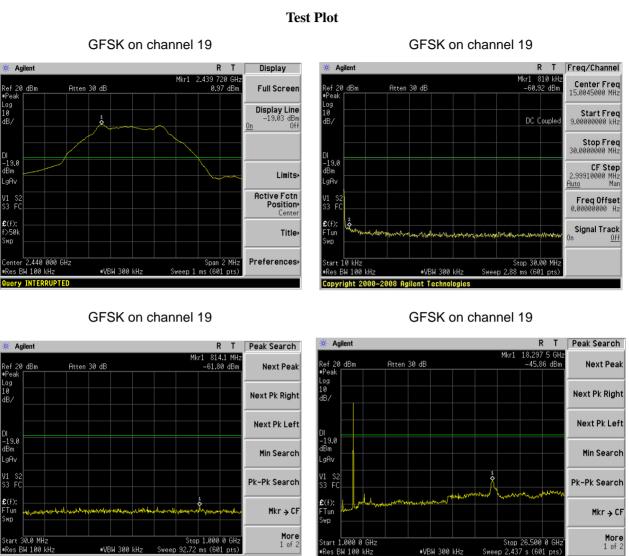










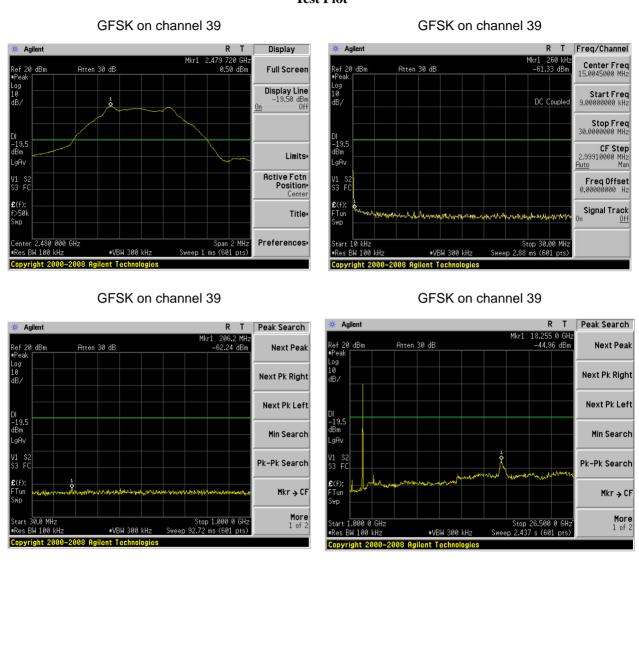


Copyright 2000–2008 Agilent Technologies

Copyright 2000-2008 Agilent Technologies







Test Plot





7.8 ANTENNA APPLICATION

7.8.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.8.2 Result

The EUT antenna is permanent attached FPCB Antenna (Gain: 1.9dBi) It comply with the standard requirement.

END OF REPORT