



FCC RADIO TEST REPORT FCC ID: IKQNEXC2

Product: Dual Channel Full HD Smart Dash

Camera

Trade Mark: SCOSCHE

Model Name: NEXC2

Family Model: N/A

Report No.: \$19032201910004

Prepared for

Scosche Industries Inc

1550 Pacific Ave Oxnard, CA 93033, United States

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name: Scosch	ne Industries Inc					
Address 1550 P	1550 Pacific Ave Oxnard, CA 93033, United States					
Manufacturer's Name: Scosch	ne Industries Inc					
Address 1550 P	acific Ave Oxnard, CA 93033, United States					
Product description						
Product name: Dual C	hannel Full HD Smart Dash Camera					
Model and/or type reference : NEXC2	2					
Family Model N/A						
Standards FCC Pa	art15.407					
Test procedure ANSI C	C63.10-2013 and KDB 789033 D02 General UNII Test lures New Rules v02r01					
equipment under test (EUT) is in compl	tested by NTEK, and the test results show that the iance with the FCC requirements/ the Industry Canada to the tested sample identified in the report.					
document may be altered or revised by the document.	ept in full, without the written approval of NTEK, this NTEK, personnel only, and shall be noted in the revision of					
Date of Test	May 2040 - 25 kd 2040					
Date (s) of performance of tests 28						
Date of Issue						
Test Result Pa	SS					
Testing Engineer	: Mary Hu)					
Technical Manager	: Jusen chen (Jason Chen)					
Authorized Signatory	: Sam . Chew (Sam Chen)					

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Revision History

1		
Version	Description	Issued Date
Rev.01	Initial issue of report	26 Jul. 2019
		·

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.407) , Subpart E						
Standard Section	Test Item	Judgment	Remark			
15.207	AC Power Line Conducted Emissions	PASS				
15.209(a), 15.407 (b)(1) 15.407 (b)(4) 15.407 (b)(6)	Spurious Radiated Emissions	PASS				
15.407 (a)(1) 15.407 (a)(3)	26 dB and 99% Emission Bandwidth	PASS				
15.407(e)	Minimum 6 dB bandwidth	PASS				
15.407 (a)(1) 15.407 (a)(3)	Maximum Conducted Output Power	PASS				
15.407(b)(1) 15.407(b)(4)	Band Edge	PASS				
15.407 (a)(1) 15.407 (a)(3)	Power Spectral Density	PASS				
15.407(b)	Spurious Emissions at Antenna Terminals	PASS				
15.407(g)	Frequency Stability	PASS				
15.203	Antenna Requirement	PASS				

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

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1.1 FACILITIES AND ACCREDITATIONS

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.

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.

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y±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%

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Dual Channel Full	HD Smart Dash Camera			
Trade Mark	SCOSCHE				
Model Name	NEXC2				
Family Model	N/A				
Model Difference	N/A				
FCC ID	IKQNEXC2				
	Mode Supported				
	Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8			
	Modulation	OFDM with BPSK/QPSK/16QAM/64QAM			
	Operating Frequency Range	 ∑5180-5240MHz for 802.11a/n(HT20)/ac20; ∑5190-5230MHz for 802.11n(HT40)/ac40; ∑5745-5825 MHz for 802.11a/n(HT20)/ac20; ∑5755-5795 MHz for 802.11a/n(HT40)/ac40; 			
	Function	□Outdoor AP □Indoor AP □Fixed P2P ☑Client			
Product Description	Number of Channels	 			
	Antenna Type	FPCB Antenna			
	Antenna Gain	1.6dBi			
	Based on the application, features, or specification exhibited in User's Manual, More details of EUT technical specification, please refer to the User's Manual.				
Ratings	DC 3.7V/550mAh from Battery or DC 5V from USB Port.				
Adapter	N/A				
Connecting I/O Port(s)	Please refer to the User's Manual				
HW Version	mini_SCO_NXR2019.03.05_L.pcb				
SW Version	3.3.33				

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Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. Frequency and Channel list for 802.11a/n(20MHz) band I (5180-5240MHz):

	802.11a/n/ac(20MHz) Carrier Frequency Channel						
	Frequen		Frequen		Frequen		Frequen
Channel	су	Channel	су	Channel	су	Channel	су
	(MHz)		(MHz)		(MHz)		(MHz)
36	5180	44	5220	-	-	-	-
40	5200	48	5240	-	-	-	-

Frequency and Channel list for 802.11n(40MHz) band I (5190-5230MHz):

	802.11n /ac(40MHz) Carrier Frequency Channel						
Channel	Frequen cy	Channel	Frequen cv	Channel	Frequen cv	Channel	Frequen cy
Chamile	(MHz)	Charine	(MHz)	Chame	(MHz)	Chame	(MHz)
38	5190	-	-	-	-	-	-
46	5230	-	-	-	-	-	-

Frequency and Channel list for 802.11a/n(20 MHz) band IV (5745-5825MHz):

	802.11a/n/ac(20 MHz) Carrier Frequency Channel						
Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

Frequency and Channel list for 802.11n(40MHz) band IV (5755-5795MHz):

802.11n/ac 40MHz Carrier Frequency Channel						
Channel	Channel Frequency (MHz) Channel Frequency (MHz) Frequency (MHz)					
151	5755	159	5795	-	-	

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2.2 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.

Pretest Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 3	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH 151 / CH 159

For Radiated Emission			
Final Test Mode Description			
Mode 1	Normal Link Mode		
Mode 2	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165		
Mode 3	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH 151 / CH 159		

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

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2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED For AC Conducted Emission Mode **AC PLUG** C-1 AE-1 Adapter For Radiated Test Cases For Conducted Test Cases C-2 Measurement Instrument Note:1. 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. 2.EUT built-in battery-powered, the battery is fully-charged.

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ACCREDITED (AZOR OL)

Report No.: S19032201910004

2.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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	Brand	Model/Type No.	Series No.	Note

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB cable	NO	NO	3.0m	
C-2	RF Cable	YES	NO	0.1m	

Note:

- (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 <code>"Length_"</code> column.

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2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Radiat	Radiation& Conducted Test equipment						
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	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2018.12.11	2019.12.10	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2018.08.05	2019.08.04	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2018.12.11	2019.12.10	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN O84	2018.08.05	2019.08.04	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2017.04.21	2020.04.20	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2017.04.21	2020.04.20	3 year
16	Filter	TRILTHIC	2400MHz	29	2017.04.19	2020.04.18	3 year
17	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

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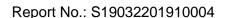


AC Conduction	Test equipment

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 Test Cable& Aux Equipment which is scheduled for calibration every 3 years.

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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 APPLICABLE STANDARD

According to FCC Part 15.207(a)

3.1.2 CONFORMANCE LIMIT

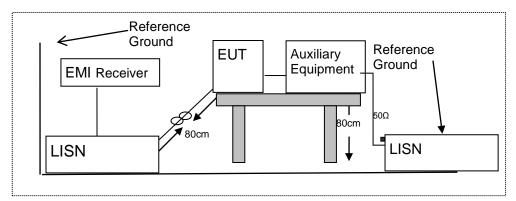
Fraguenov(MHz)	Conducted Emission Limit			
Frequency(MHz)	Quasi-peak	Average		
0.15-0.5	66-56*	56-46*		
0.5-5.0	56	46		
5.0-30.0	60	50		

Certificate #4298.01

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.

3.1.3 TEST CONFIGURATION



3.1.4 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
- For the actual test configuration, please refer to the related Item -EUT Test Photos.

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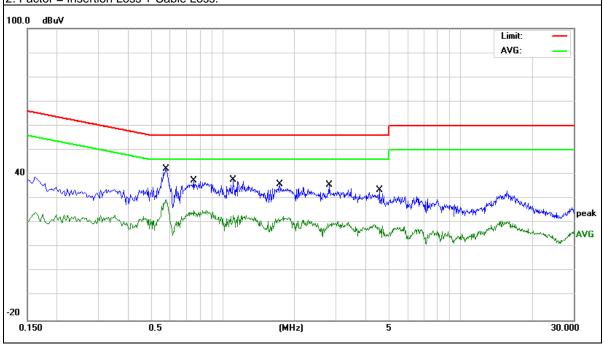


EUI.	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2
Temperature:	26 ℃	Relative Humidity:	56%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.5779	32.56	9.74	42.30	56.00	-13.70	QP
0.5779	19.98	9.74	29.72	46.00	-16.28	AVG
0.7539	27.60	9.74	37.34	56.00	-18.66	QP
0.7539	15.40	9.74	25.14	46.00	-20.86	AVG
1.1019	27.92	9.74	37.66	56.00	-18.34	QP
1.1019	13.39	9.74	23.13	46.00	-22.87	AVG
1.7419	26.06	9.77	35.83	56.00	-20.17	QP
1.7419	12.86	9.77	22.63	46.00	-23.37	AVG
2.7980	25.72	9.82	35.54	56.00	-20.46	QP
2.7980	10.40	9.82	20.22	46.00	-25.78	AVG
4.5538	23.77	9.87	33.64	56.00	-22.36	QP
4.5538	9.44	9.87	19.31	46.00	-26.69	AVG

Remark:

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



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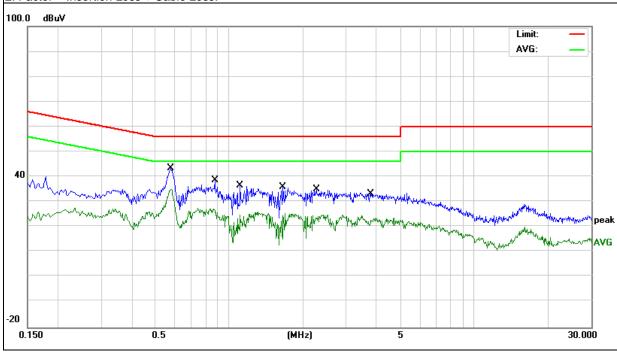


EUT:	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2
Temperature:	26 ℃	Relative Humidity:	56%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.5780	33.71	9.75	43.46	56.00	-12.54	QP
0.5780	25.26	9.75	35.01	46.00	-10.99	AVG
0.8740	29.02	9.75	38.77	56.00	-17.23	QP
0.8740	17.48	9.75	27.23	46.00	-18.77	AVG
1.1100	26.71	9.75	36.46	56.00	-19.54	QP
1.1100	15.52	9.75	25.27	46.00	-20.73	AVG
1.6540	26.21	9.78	35.99	56.00	-20.01	QP
1.6540	15.56	9.78	25.34	46.00	-20.66	AVG
2.2620	25.26	9.81	35.07	56.00	-20.93	QP
2.2620	15.13	9.81	24.94	46.00	-21.06	AVG
3.7780	23.23	9.91	33.14	56.00	-22.86	QP
3.7780	14.67	9.91	24.58	46.00	-21.42	AVG

Remark:

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



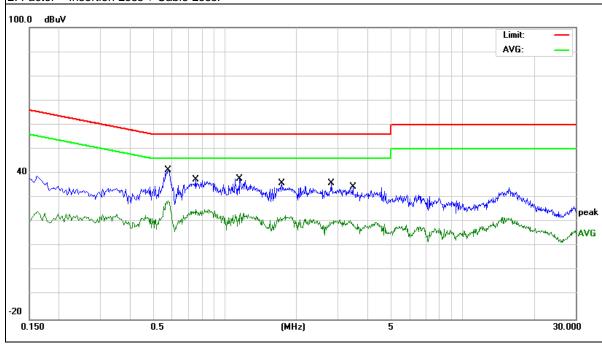
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EUT:	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2
Temperature:	26 ℃	Relative Humidity:	56%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 240V/60Hz	Test Mode :	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.5777	31.56	9.74	41.30	56.00	-14.70	QP
0.5777	18.98	9.74	28.72	46.00	-17.28	AVG
0.7539	27.60	9.74	37.34	56.00	-18.66	QP
0.7539	15.40	9.74	25.14	46.00	-20.86	AVG
1.1537	27.94	9.74	37.68	56.00	-18.32	QP
1.1537	13.89	9.74	23.63	46.00	-22.37	AVG
1.7419	26.06	9.77	35.83	56.00	-20.17	QP
1.7419	12.47	9.77	22.24	46.00	-23.76	AVG
2.7980	26.22	9.82	36.04	56.00	-19.96	QP
2.7980	11.19	9.82	21.01	46.00	-24.99	AVG
3.4580	24.71	9.84	34.55	56.00	-21.45	QP
3.4580	10.96	9.84	20.80	46.00	-25.20	AVG

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



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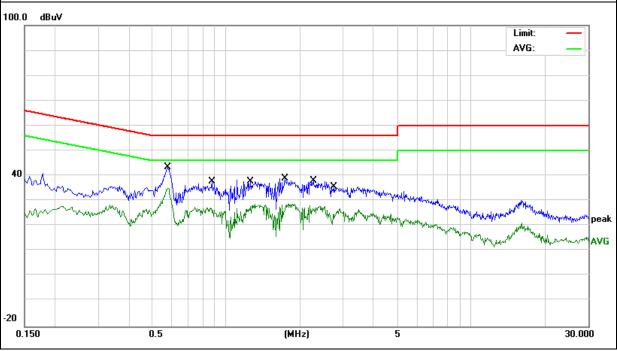


EUT:	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2
Temperature:	26 ℃	Relative Humidity:	56%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 240V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.5779	33.71	9.75	43.46	56.00	-12.54	QP
0.5779	25.26	9.75	35.01	46.00	-10.99	AVG
0.8739	28.02	9.75	37.77	56.00	-18.23	QP
0.8739	17.48	9.75	27.23	46.00	-18.77	AVG
1.2620	28.13	9.75	37.88	56.00	-18.12	QP
1.2620	18.90	9.75	28.65	46.00	-17.35	AVG
1.7419	29.24	9.78	39.02	56.00	-16.98	QP
1.7419	18.98	9.78	28.76	46.00	-17.24	AVG
2.2620	28.26	9.81	38.07	56.00	-17.93	QP
2.2620	18.21	9.81	28.02	46.00	-17.98	AVG
2.7540	25.68	9.85	35.53	56.00	-20.47	QP
2.7540	17.95	9.85	27.80	46.00	-18.20	AVG

Remark:

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



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3.2 RADIATED EMISSION MEASUREMENT

3.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(d) and 15.209

3.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407(b)(7): 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

ocording to 1 00 1 dictro.200, reconnoted barrae					
MHz	MHz	GHz			
16.42-16.423	399.9-410	4.5-5.15			
16.69475-16.69525	608-614	5.35-5.46			
16.80425-16.80475	960-1240	7.25-7.75			
25.5-25.67	1300-1427	8.025-8.5			
37.5-38.25	1435-1626.5	9.0-9.2			
73-74.6	1645.5-1646.5	9.3-9.5			
74.8-75.2	1660-1710	10.6-12.7			
123-138	2200-2300	14.47-14.5			
149.9-150.05	2310-2390	15.35-16.2			
156.52475-156.52525	2483.5-2500	17.7-21.4			
156.7-156.9	2690-2900	22.01-23.12			
162.0125-167.17	3260-3267	23.6-24.0			
167.72-173.2	3332-3339	31.2-31.8			
240-285	3345.8-3358	36.43-36.5			
322-335.4	3600-4400	(2)			
	MHz 16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	MHz MHz 16.42-16.423 399.9-410 16.69475-16.69525 608-614 16.80425-16.80475 960-1240 25.5-25.67 1300-1427 37.5-38.25 1435-1626.5 73-74.6 1645.5-1646.5 74.8-75.2 1660-1710 123-138 2200-2300 149.9-150.05 2310-2390 156.52475-156.52525 2483.5-2500 156.7-156.9 2690-2900 162.0125-167.17 3260-3267 167.72-173.2 3332-3339 240-285 3345.8-3358			

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(Wiriz)	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.

3.2.3 MEASURING INSTRUMENTS

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

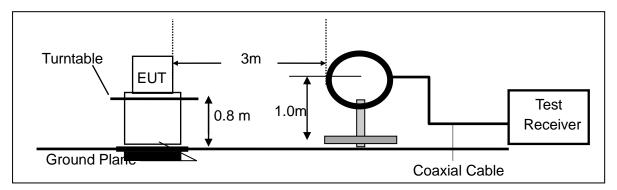
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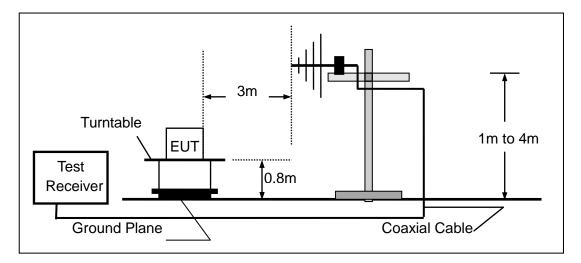


3.2.4 TEST CONFIGURATION

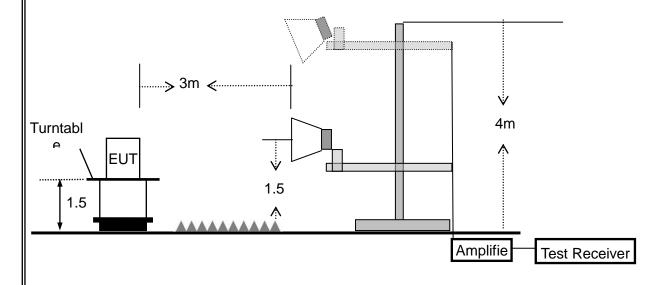
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



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3.2.5 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	

- 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. 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.
- e. 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.
- f. 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 test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz) Function		Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	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.

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3.2.6 TEST RESULTS (9KHZ - 30 MHZ)

H-111.	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				N/A
				N/A

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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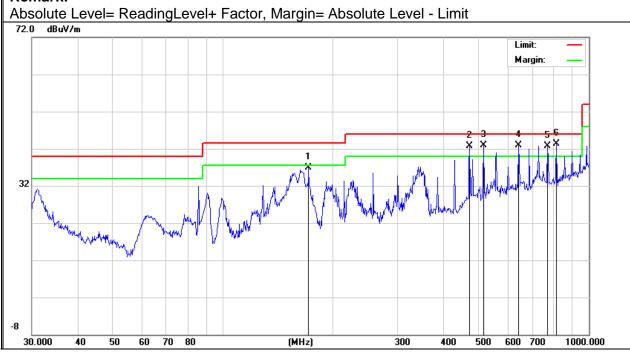


3.2.7 TEST RESULTS (30MHZ - 1GHZ)

HUI.	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX(5.2G)- 802.11a (High CH)		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	171.3926	25.78	11.20	36.98	43.50	-6.52	QP
V	472.1759	21.54	21.07	42.61	46.00	-3.39	QP
V	515.4374	20.65	22.22	42.87	46.00	-3.13	QP
V	642.8613	18.18	24.72	42.90	46.00	-3.10	QP
V	771.4486	15.29	27.44	42.73	46.00	-3.27	QP
V	815.9678	15.95	27.41	43.36	46.00	-2.64	QP

Remark:



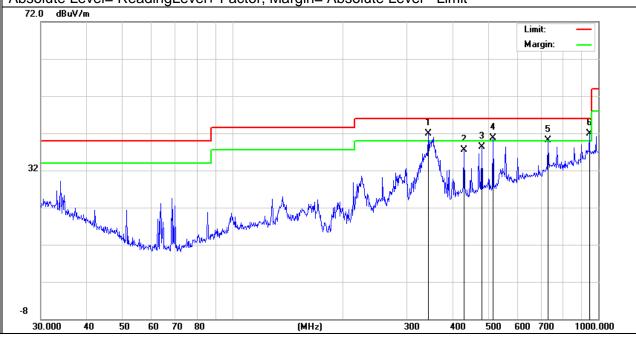
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Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	343.1800	24.35	17.49	41.84	46.00	-4.16	QP
Н	429.5228	17.38	20.10	37.48	46.00	-8.52	QP
Н	480.5276	16.92	21.41	38.33	46.00	-7.67	QP
Н	515.4374	18.54	22.22	40.76	46.00	-5.24	QP
Н	729.3583	12.95	27.23	40.18	46.00	-5.82	QP
Н	945.4398	10.89	31.01	41.90	46.00	-4.10	QP

Remark:

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



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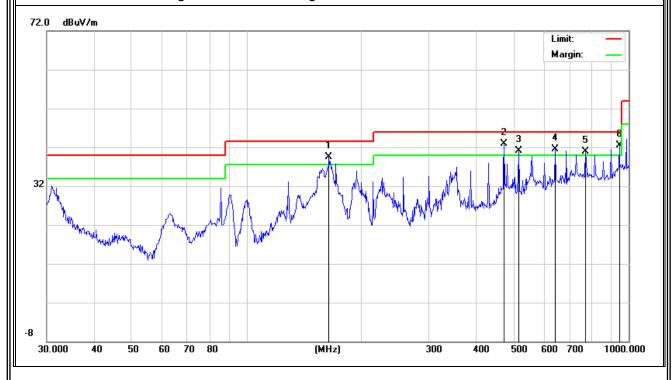


FUI.	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX(5.8G) - 802.11ac20 (High Ch	 	

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	rtornart
V	164.3300	28.14	11.44	39.58	43.50	-3.92	QP
V	472.1759	21.86	21.07	42.93	46.00	-3.07	QP
V	515.4374	18.85	22.22	41.07	46.00	-4.93	QP
V	642.8613	16.88	24.72	41.60	46.00	-4.40	QP
V	771.4486	13.49	27.44	40.93	46.00	-5.07	QP
V	945.4397	11.49	31.01	42.50	46.00	-3.50	QP

Remark:

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

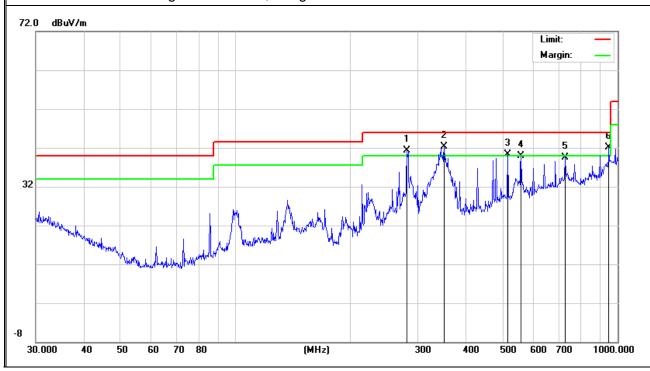


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Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	T COM CONT
Н	281.0074	24.23	17.00	41.23	46.00	-4.77	QP
Н	351.7078	24.72	17.65	42.37	46.00	-3.63	QP
Н	515.4374	18.02	22.22	40.24	46.00	-5.76	QP
Н	558.7300	15.43	24.38	39.81	46.00	-6.19	QP
Н	729.3582	12.28	27.23	39.51	46.00	-6.49	QP
Н	948.7608	10.98	31.09	42.07	46.00	-3.93	QP

Remark:

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



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3.2.8 TEST RESULTS (1GHz-18GHz)

 - .	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2		
Temperature:	20 ℃	Relative Humidity:	48%		
Pressure :	1010 hPa	Test Voltage :	DC 3.7V		
Test Mode :	TX(5.2G) - 802.11a _5180~5240MHz				

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m	(dBuV/m	(dB)	. 71 -
(1 11 7)	(:::::=)		Low Channe		z)-Above 1	G	((3.2)	
Vertical	2957.95	60.52	5.94	35.40	44.00	57.86	74.00	-16.14	Pk
Vertical	2957.95	44.59	5.94	35.40	44.00	41.93	54.00	-12.07	AV
Vertical	10360.00	63.29	8.46	39.75	44.50	67.00	74.00	-7.00	Pk
Vertical	10360.00	40.17	8.46	39.75	44.50	43.88	54.00	-10.12	AV
Vertical	15540.00	60.32	10.12	38.80	44.10	65.14	74.00	-8.86	Pk
Vertical	15540.00	39.98	10.12	38.80	42.70	46.20	54.00	-7.80	AV
Horizontal	2963.31	65.49	5.94	35.18	44.00	62.61	74.00	-11.39	Pk
Horizontal	2963.31	44.12	5.94	35.18	44.00	41.24	54.00	-12.76	AV
Horizontal	10360.00	53.62	8.46	38.71	44.50	56.29	74.00	-17.71	Pk
Horizontal	10360.00	40.74	8.46	38.71	44.50	43.41	54.00	-10.59	AV
Horizontal	15540.00	54.98	10.12	38.38	44.10	59.38	74.00	-14.62	Pk
Horizontal	15540.00	40.13	10.12	38.38	44.10	44.53	54.00	-9.47	AV
		m	iddle Chanr	nel (5200 M	Hz)-Above	1G			
Vertical	4251.20	60.43	6.48	36.35	44.05	59.21	74.00	-14.79	Pk
Vertical	4251.20	42.98	6.48	36.35	44.05	41.76	54.00	-12.24	ΑV
Vertical	10400.00	61.47	8.47	37.88	44.51	63.31	74.00	-10.69	Pk
Vertical	10400.00	43.57	8.47	37.88	44.51	45.41	54.00	-8.59	ΑV
Vertical	15600.00	57.64	10.12	38.80	44.10	62.46	74.00	-11.54	Pk
Vertical	15600.00	38.65	10.12	38.80	42.70	44.87	54.00	-9.13	AV
Horizontal	4251.65	64.41	6.48	36.37	44.05	63.21	74.00	-10.79	Pk
Horizontal	4251.65	46.69	6.48	36.37	44.05	45.49	54.00	-8.51	AV
Horizontal	10400.00	61.23	8.47	38.64	44.50	63.84	74.00	-10.16	Pk
Horizontal	10400.00	42.37	8.47	38.64	44.50	44.98	54.00	-9.02	AV
Horizontal	15600.00	61.17	10.12	38.38	44.10	65.57	74.00	-8.43	Pk
Horizontal	15600.00	42.61	10.12	38.38	44.10	47.01	54.00	-6.99	AV
		ŀ	High Channe	el (5240 MH	łz)-Above 1	G			
Vertical	4184.45	60.98	7.10	37.24	43.50	61.82	74.00	-12.18	Pk
Vertical	4184.45	44.32	7.10	37.24	43.50	45.16	54.00	-8.84	AV
Vertical	10480.00	61.52	8.46	37.68	44.50	63.16	74.00	-10.84	Pk
Vertical	10480.00	38.97	8.46	37.68	44.50	40.61	54.00	-13.39	AV
Vertical	15720.00	58.65	10.12	38.80	44.10	63.47	74.00	-10.53	Pk
Vertical	15720.00	36.64	10.12	38.80	42.70	42.86	54.00	-11.14	AV
Horizontal	4185.06	61.42	7.10	37.24	43.50	62.26	74.00	-11.74	Pk
Horizontal	4185.06	42.98	7.10	37.24	43.50	43.82	54.00	-10.18	AV
Horizontal	10480.00	59.65	8.46	38.57	44.50	62.18	74.00	-11.82	Pk
Horizontal	10480.00	41.12	8.46	38.57	44.50	43.65	54.00	-10.35	AV
Horizontal	15720.00	60.57	10.12	38.38	44.10	64.97	74.00	-9.03	Pk
Horizontal	15720.00	40.36	10.12	38.38	44.10	44.76	54.00	-9.24	AV

Note: "802.11a(5G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value

has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

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FUI :	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2		
Temperature :	20 ℃	Relative Humidity:	48%		
Pressure:	1010 hPa	Test Voltage :	DC 3.7V		
Test Mode :	TX (5.8G) 802.11ac20 _5745~5825MHz				

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

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
	Low Channel (5745 MHz)-Above 1G								
Vertical	4679.21	63.67	5.94	35.40	44.00	61.01	74.00	-12.99	Pk
Vertical	4679.21	44.06	5.94	35.40	44.00	41.40	54.00	-12.60	AV
Vertical	11490.00	60.12	8.46	39.75	44.50	63.83	74.00	-10.17	Pk
Vertical	11490.00	40.67	8.46	39.75	44.50	44.38	54.00	-9.62	AV
Vertical	17235.00	47.19	10.12	38.80	44.10	52.01	74.00	-21.99	Pk
Vertical	17235.00	39.19	10.12	38.80	42.70	45.41	54.00	-8.59	AV
Horizontal	4679.19	59.77	5.94	35.18	44.00	56.89	74.00	-17.11	Pk
Horizontal	4679.19	40.35	5.94	35.18	44.00	37.47	54.00	-16.53	AV
Horizontal	11490.00	54.51	8.46	38.71	44.50	57.18	74.00	-16.82	Pk
Horizontal	11490.00	39.16	8.46	38.71	44.50	41.83	54.00	-12.17	AV
Horizontal	17235.00	62.39	10.12	38.38	44.10	66.79	74.00	-7.21	Pk
Horizontal	17235.00	42.50	10.12	38.38	44.10	46.90	54.00	-7.10	AV
	,		1	nannel (578		1	1		1
Vertical	4592.33	60.74	6.48	36.35	44.05	59.52	74.00	-14.48	Pk
Vertical	4592.33	40.98	6.48	36.35	44.05	39.76	54.00	-14.24	AV
Vertical	11570.00	60.29	8.47	37.88	44.51	62.13	74.00	-11.87	Pk
Vertical	11570.00	41.51	8.47	37.88	44.51	43.35	54.00	-10.65	AV
Vertical	17355.00	61.01	10.12	38.80	44.10	65.83	74.00	-8.17	Pk
Vertical	17355.00	39.72	10.12	38.80	42.70	45.94	54.00	-8.06	AV
Horizontal	4592.25	60.32	6.48	36.37	44.05	59.12	74.00	-14.88	Pk
Horizontal	4592.25	42.68	6.48	36.37	44.05	41.48	54.00	-12.52	AV
Horizontal	11570.00	59.75	8.47	38.64	44.50	62.36	74.00	-11.64	Pk
Horizontal	11570.00	43.39	8.47	38.64	44.50	46.00	54.00	-8.00	AV
Horizontal	17355.00	62.72	10.12	38.38	44.10	67.12	74.00	-6.88	Pk
Horizontal	17355.00	43.03	10.12	38.38	44.10	47.43	54.00	-6.57	AV
			High Cha	annel (5825	MHz)-Abo	ve 1G			
Vertical	6039.14	58.89	7.10	37.24	43.50	59.73	74.00	-14.27	Pk
Vertical	6039.14	41.82	7.10	37.24	43.50	42.66	54.00	-11.34	AV
Vertical	11650.00	61.51	8.46	37.68	44.50	63.15	74.00	-10.85	Pk
Vertical	11650.00	42.83	8.46	37.68	44.50	44.47	54.00	-9.53	AV
Vertical	17475.00	60.85	10.12	38.80	44.10	65.67	74.00	-8.33	Pk
Vertical	17475.00	39.29	10.12	38.80	42.70	45.51	54.00	-8.49	AV
Horizontal	6039.11	61.00	7.10	37.24	43.50	61.84	74.00	-12.16	Pk
Horizontal	6039.11	43.91	7.10	37.24	43.50	44.75	54.00	-9.25	AV
Horizontal	11650.00	60.36	8.46	38.57	44.50	62.89	74.00	-11.11	Pk
Horizontal	11650.00	42.33	8.46	38.57	44.50	44.86	54.00	-9.14	AV
Horizontal	17475.00	60.30	10.12	38.38	44.10	64.70	74.00	-9.30	Pk
Horizontal	17475.00	42.75	10.12	38.38	44.10	47.15	54.00	-6.85	AV

Note:"802.11a (5G)" mode is the worst mode. The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

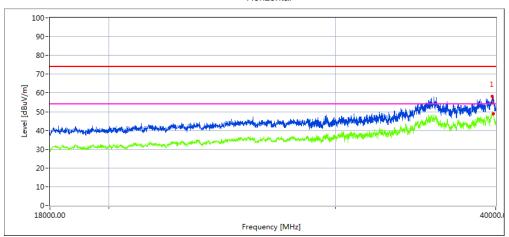
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3.2.9 TEST RESULTS (18GHz-40GHz)						
F () .	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2			
Temperature:	20 °C Relative Humidity : 48%					
Pressure :	1010 hPa	Test Voltage :	DC 3.7V			
Test Mode : TX (5.2G)-802.11a 5180MHz~5240MHz; TX (5.8G)-802.11ac20 5745MHz~5825MHz						

All the modulation modes have been tested, and the worst result was report as below: Low Channel (5180 MHz)-Above 1G

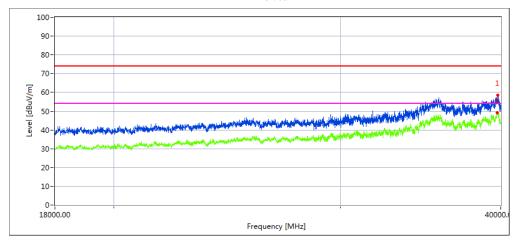




Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
39745.986	58.2	58.0	74.0	16.0
39815.072	55.8	55.6	74.0	18.4

Vertical



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
39787.004	58.7	44.8	74.0	29.2
39728.984	56.1	53.5	74.0	20.5

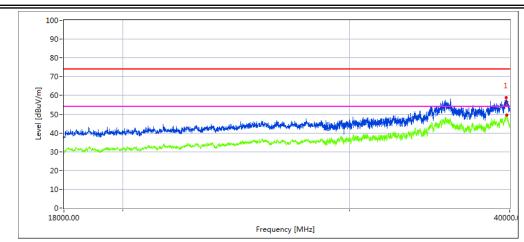
High Channel (5240 MHz)-Above 1G

Horizontal

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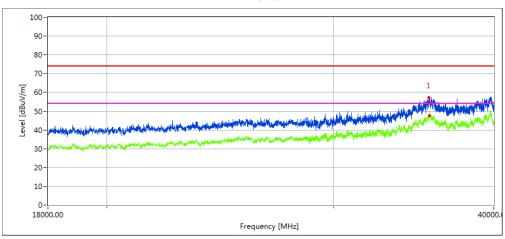




Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB		
39762.314	59.0	58.0	74.0	16.0		
39770.042	55.6	58.7	74.0	15.3		

Vertical



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35627.626	57.3	55.4	74.0	18.6
35642.096	54.2	54.9	74.0	19.1

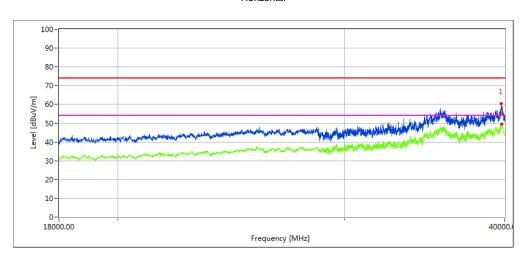
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Low Channel (5745 MHz)-Above 1G

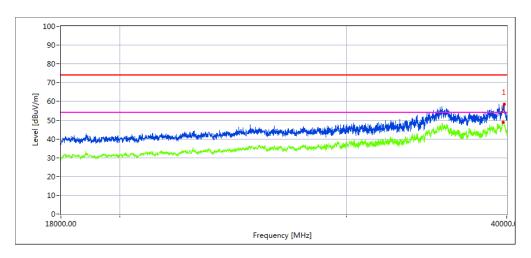
Horizontal



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
39733.954	60.4	57.0	74.0	17.0
39772.680	56.9	57.0	74.0	17.0

Vertical



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
39834.398	58.6	55.9	74.0	18.1
39760.874	57.1	55.9	74.0	18.1

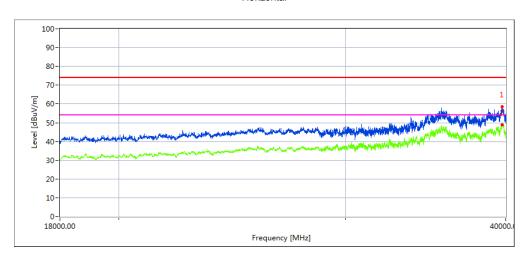
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High Channel (5825 MHz)-Above 1G

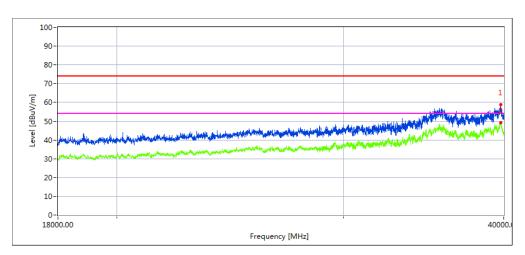
Horizontal



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
39735.252	58.6	56.6	74.0	17.4
39726.994	57.7	57.7	74.0	16.3

Vertical



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
39794.598	58.8	56.3	74.0	17.7
39776.004	58.1	43.8	74.0	30.2

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4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(a)

For the band 5.15-5.25 GHz,

- (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

(3)For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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4.2 TEST PROCEDURE

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set RBW \geq 1/T, where T is defined in section II.B.l.a).
- b) Set VBW ≥ 3 RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

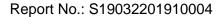
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4.6 TEST RESULTS

I=UII .	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2	
Temperature:	25 ℃	Relative Humidity:	56%	
Pressure :	: 1015 hPa Test Voltage :		DC 3.7V	
Test Mode :	TX Frequency Band 1 (5150-5250MHz)			

Mode	Frequency	Measured Power Density (dBm)	Limit (dBm/MHz)	Result
	5180 MHz	3.73	11	PASS
802.11 a	5200 MHz	4.45	11	PASS
	5240 MHz	4.27	11	PASS
	5180 MHz	3.42	11	PASS
802.11 n20	5200 MHz	3.88	11	PASS
	5240 MHz	4.46	11	PASS
000 11 10	5190 MHz	-0.32	11	PASS
802.11 n40	5230 MHz	0.87	11	PASS
	5180 MHz	4.31	11	PASS
802.11 ac20	5200 MHz	4.23	11	PASS
	5240 MHz	5.69	11	PASS
000 44	5190 MHz	1.49	11	PASS
802.11 ac40	5230 MHz	1.73	11	PASS

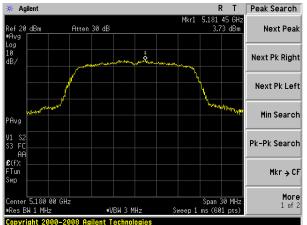
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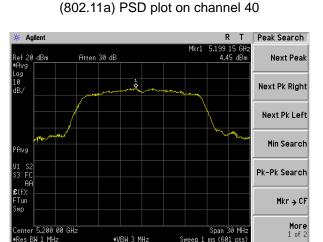




(802.11a) PSD plot on channel 36

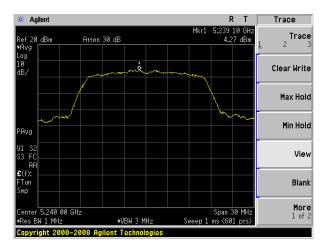


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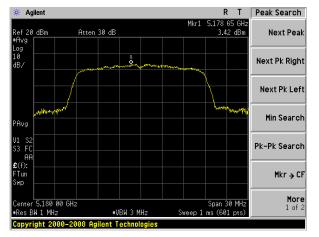


(802.11a) PSD plot on channel 48

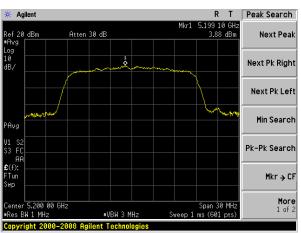
Copyright 2000-2008 Agilent Technologies



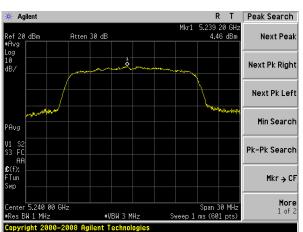
(802.11n20) PSD plot on channel 36



(802.11n20) PSD plot on channel 40



(802.11n20) PSD plot on channel 48

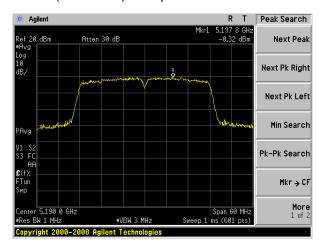


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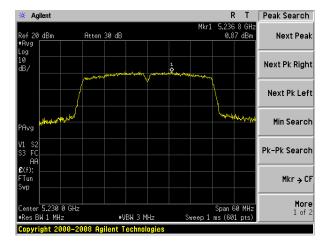




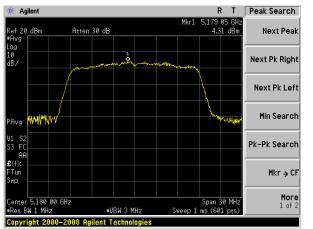
(802.11n40) PSD plot on channel 38



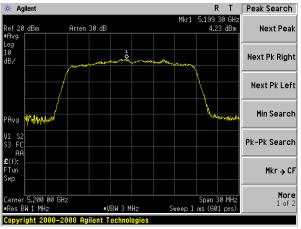
(802.11n40) PSD plot on channel 46



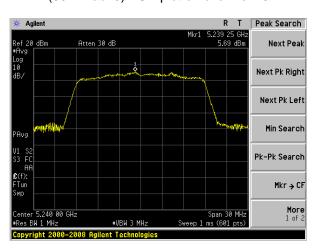
(802.11ac20) PSD plot on channel 36



(802.11ac20) PSD plot on channel 40



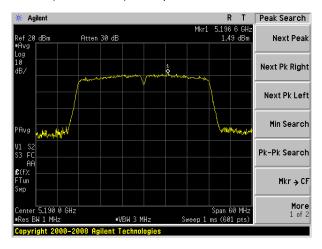
(802.11ac20) PSD plot on channel 48



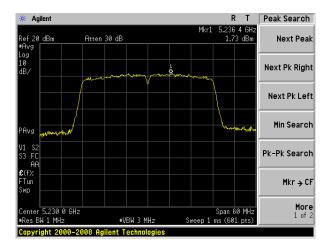
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(802.11ac40) PSD plot on channel 38



(802.11ac40) PSD plot on channel 46



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IF()) :	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2		
Temperature :	25 ℃	Relative Humidity:	56%		
Pressure:	1015 hPa	Test Voltage :	DC 3.7V		
Test Mode :	TX Frequency Band IV (5725-5850MHz)				

Mode	Frequency	Measured Power Density (dBm)	Calculate power density (dBm)(Note 1)	Limit (dBm)	Result
	5745 MHz	4.72	4.63	30	PASS
802.11 a	5785 MHz	5.05	4.96	30	PASS
	5825 MHz	4.25	4.16	30	PASS
	5745 MHz	4.59	4.50	30	PASS
802.11 n20	5785 MHz	5.13	5.04	30	PASS
	5825 MHz	4.63	4.54	30	PASS
000 11 10	5755 MHz	3.03	2.94	30	PASS
802.11 n40	5795 MHz	1.60	1.51	30	PASS
	5745 MHz	5.69	5.60	30	PASS
802.11 ac20	5785 MHz	6.00	5.91	30	PASS
	5825 MHz	5.35	5.26	30	PASS
	5755 MHz	2.22	2.13	30	PASS
802.11 ac40	5795 MHz	2.73	2.64	30	PASS

Note:

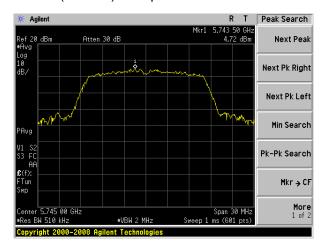
(1) Calculate power density= Measured Power Density+10log(500kHz/RBW)= Measured Power Density+(-0.086) RBW=0.51MHz

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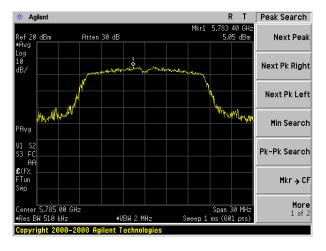




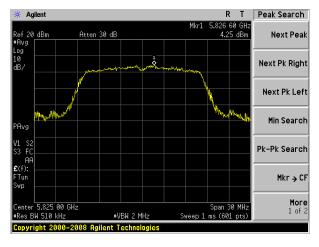
(802.11a) PSD plot on channel 149



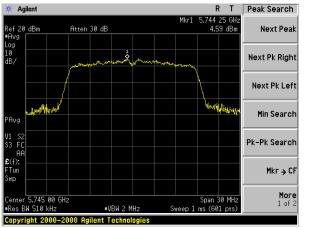
(802.11a) PSD plot on channel 157



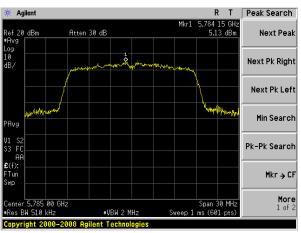
(802.11a) PSD plot on channel 165



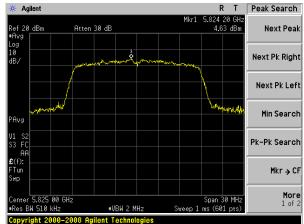
(802.11n20) PSD plot on channel 149



(802.11n20) PSD plot on channel 157



(802.11n20) PSD plot on channel 165

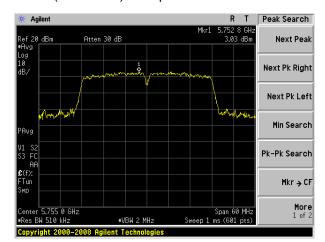


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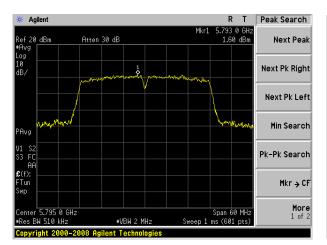




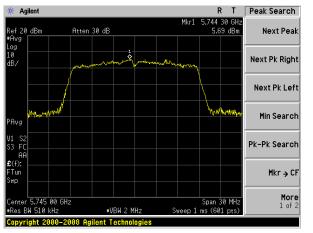
(802.11n40) PSD plot on channel 151



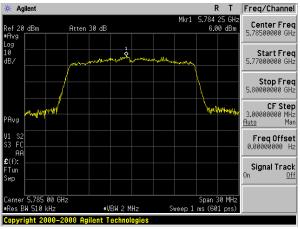
(802.11n40) PSD plot on channel 159



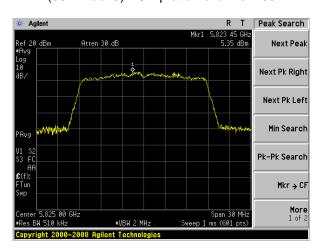
(802.11ac20) PSD plot on channel 149



(802.11ac20) PSD plot on channel 157



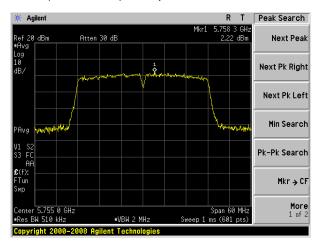
(802.11ac20) PSD plot on channel 165



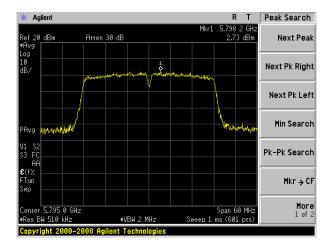
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(802.11ac40) PSD plot on channel 151



(802.11ac40) PSD plot on channel 159



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5. 26DB & 99% EMISSION BANDWIDTH

5.1 APPLIED PROCEDURES / LIMIT

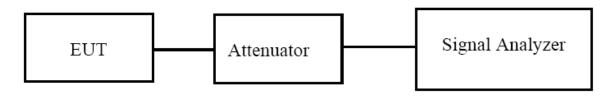
The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

5.2 TEST PROCEDURE

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

The following procedure shall be used for measuring (99 %) power bandwidth:

- 1. Set center frequency to the nominal EUT channel center frequency.
- 2. Set span = 1.5 times to 5.0 times the OBW.
- 3. Set RBW = 1% to 5% of the OBW
- 4. Set VBW ≥ 3 · RBW
- 5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
 - 6. Use the 99 % power bandwidth function of the instrument (if available).
- 7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.



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Certificate #4298.01					
5.3 EUT OPERATION CONDITIONS					
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.					

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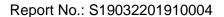


5.4 TEST RESULTS

HUI.	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2		
Temperature:	25 ℃	Relative Humidity:	56%		
Pressure :	1012 hPa	Test Voltage :	DC 3.7V		
Test Mode :	TX Frequency Band 1 (5150-5250MHz)				

Mode	Channel	Frequency (MHz)	99% bandwidth(MHz)	26dB bandwidth (MHz)	Result
	CH36	5180	16.8651	21.272	Pass
802.11a	CH40	5200	16.7466	20.108	Pass
	CH48	5240	16.7210	20.090	Pass
	CH36	5180	17.6720	20.389	Pass
802.11 n20	CH40	5200	17.6678	19.928	Pass
	CH48	5240	17.7033	20.369	Pass
902 11 510	CH 38	5190	36.1072	42.858	Pass
802.11 n40	CH 46	5230	36.0809	42.420	Pass
	CH36	5180	17.6269	19.829	Pass
802.11 ac20	CH40	5200	17.5860	19.846	Pass
	CH48	5240	17.6138	19.735	Pass
802.11 ac40	CH 38	5190	35.9693	39.681	Pass
002.11 8040	CH 46	5230	35.9820	39.840	Pass

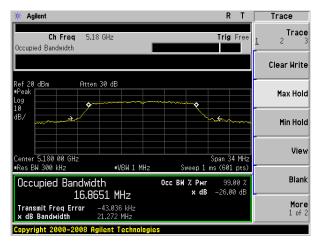
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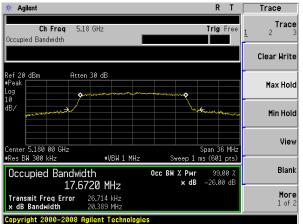




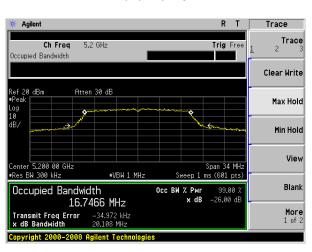
(802.11a) -26dB&99%Bandwidth plot on channel 36



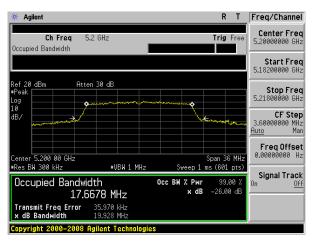
(802.11 n20) -26dB&99%Bandwidth plot on channel 36



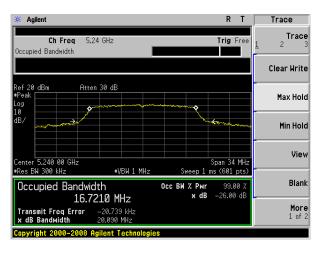
(802.11a) -26dB&99%Bandwidth plot on channel 40



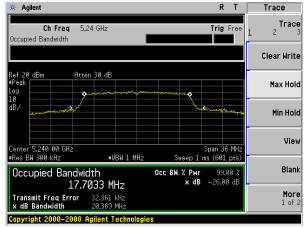
(802.11 n20) -26dB&99%Bandwidth plot on channel 40



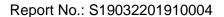
(802.11a) -26dB&99%Bandwidth plot on channel 48



(802.11 n20) -26dB&99%Bandwidth plot on channel 48



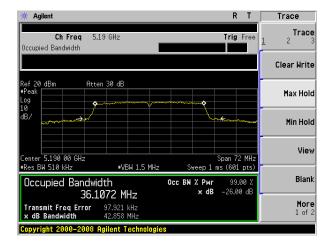
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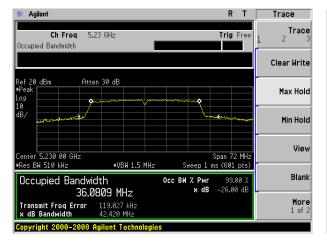




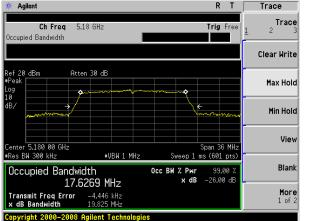
(802.11 n40) -26dB&99%Bandwidth plot on channel 38



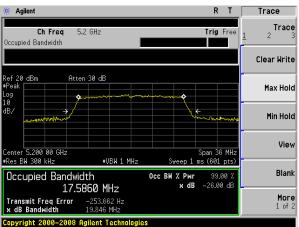
(802.11 n40) -26dB&99%Bandwidth plot on channel 46



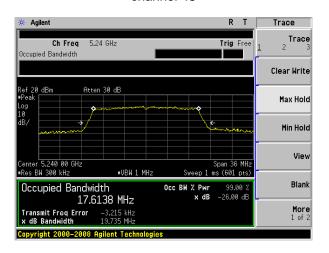
(802.11 ac20) -26dB&99%Bandwidth plot on channel 36



(802.11 ac20) -26dB&99%Bandwidth plot on channel 40



(802.11 ac20) -26dB&99%Bandwidth plot on channel 48

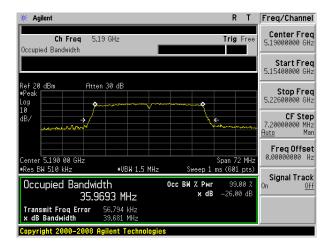


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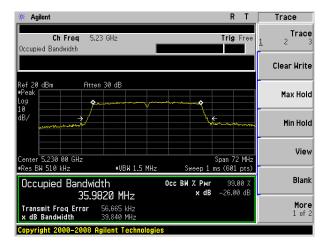




(802.11 ac40) -26dB&99%Bandwidth plot on channel 38



(802.11 ac40) -26dB&99%Bandwidth plot on channel 46



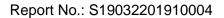
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FUI.	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2	
Temperature:	25 ℃	Relative Humidity:	56%	
Pressure :	1012 hPa	Test Voltage :	DC 3.7V	
Test Mode :	TX Frequency Band IV (5725-5850MHz)			

Mode	Channel	Frequency (MHz)	99% bandwidth(MHz)	26dB bandwidth (MHz)	Result
	CH149	5745	16.8010	20.537	Pass
802.11a	CH157	5785	16.7502	19.860	Pass
	CH165	5825	16.7938	19.858	Pass
	CH149	5745	17.6460	19.924	Pass
802.11 n20	CH157	5785	17.6764	19.980	Pass
	CH165	5825	17.6403	19.910	Pass
802.11 n40	CH151	5755	36.0704	40.371	Pass
	CH159	5795	36.0886	40.275	Pass
	CH149	5745	17.6423	19.743	Pass
802.11 ac20	CH157	5785	17.6070	19.623	Pass
	CH165	5825	17.6194	19.910	Pass
000 11 0010	CH151	5755	35.9725	39.752	Pass
802.11 ac40	CH159	5795	36.0145	39.691	Pass

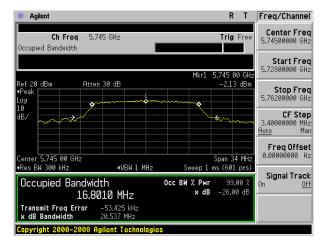
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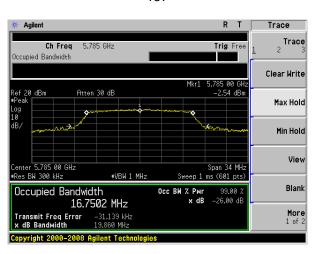
(802.11a) -26dB&99%Bandwidth plot on channel 149



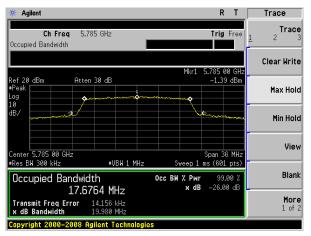
(802.11 n20) -26dB&99%Bandwidth plot on channel 149



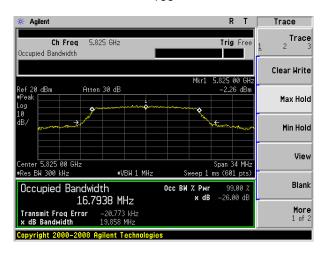
(802.11a) -26dB&99%Bandwidth plot on channel 157



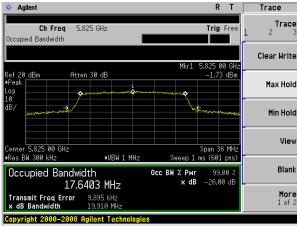
(802.11 n20) -26dB&99%Bandwidth plot on channel 157



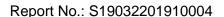
(802.11a) -26dB&99%Bandwidth plot on channel 165



(802.11 n20) -26dB&99%Bandwidth plot on channel 165



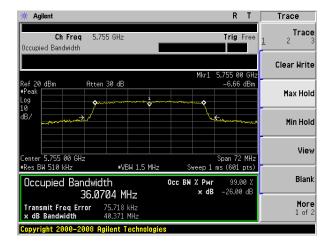
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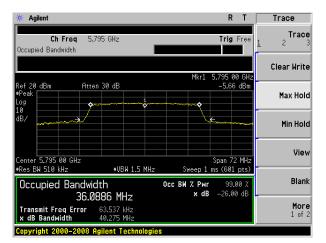




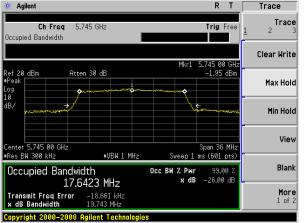
(802.11 n40) -26dB&99%Bandwidth plot on channel 151



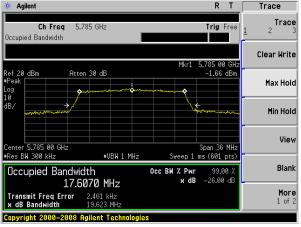
(802.11 n40) -26dB&99%Bandwidth plot on channel 159



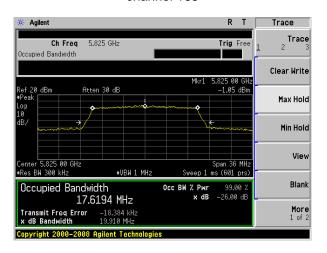
(802.11 ac20) -26dB&99%Bandwidth plot on channel 149



(802.11 ac20) -26dB&99%Bandwidth plot on channel 157



(802.11 ac20) -26dB&99%Bandwidth plot on channel 165

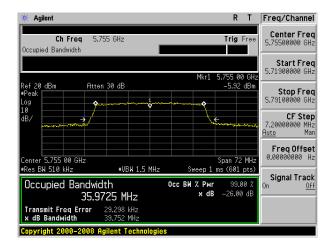


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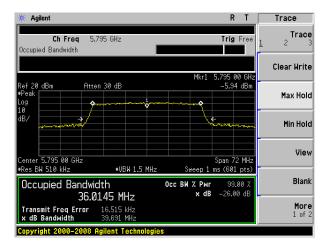




(802.11 ac40) -26dB&99%Bandwidth plot on channel 151



(802.11 ac40) -26dB&99%Bandwidth plot on channel 159



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6. MINIMUM 6 DB BANDWIDTH

6.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(e)

(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Certificate #4298.01

6.2 TEST PROCEDURE

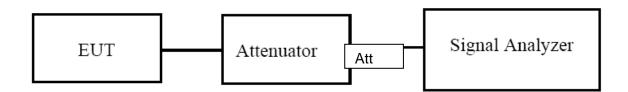
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) ≥ 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.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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6.6 TEST RESULTS

EUI.	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2		
Temperature:	25 ℃	Relative Humidity:	60%		
Pressure:	1012 hPa	Test Voltage :	DC 3.7V		
Test Mode :	TX Frequency Band IV (5725-5850MHz)				

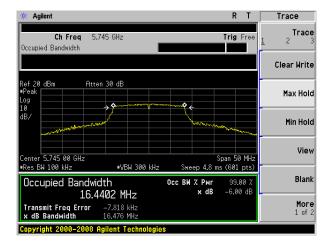
Mode	Channel	Frequency (MHz)	-6dB bandwidth (MHz)	Limit (KHz)	Result
	149	5745	16.476	≥500	Pass
802.11a	157	5785	16.456	≥500	Pass
	165	5825	16.457	≥500	Pass
	149	5745	17.678	≥500	Pass
802.11 n20	157	5785	17.662	≥500	Pass
	165	5825	17.684	≥500	Pass
802.11 n40	151	5755	36.389	≥500	Pass
002.111140	159	5795	36.377	≥500	Pass
	149	5745	17.725	≥500	Pass
802.11 ac20	157	5785	17.715	≥500	Pass
	165	5825	17.709	≥500	Pass
802.11 ac40	149	5745	36.408	≥500	Pass
	157	5785	36.367	≥500	Pass

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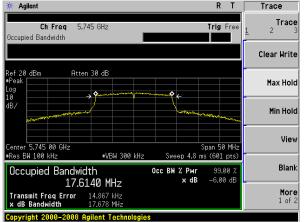




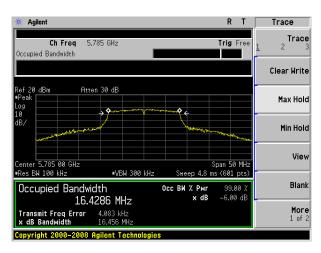
(802.11a) 6dB Bandwidth plot on channel 149



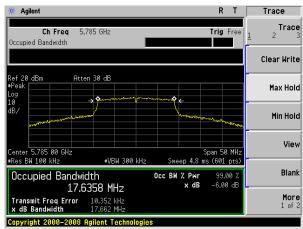
(802.11 n20) 6dB Bandwidth plot on channel 149



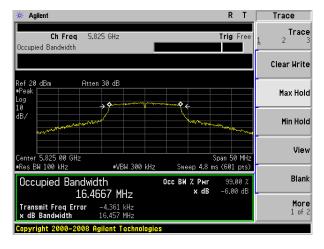
(802.11a) 6dB Bandwidth plot on channel 157



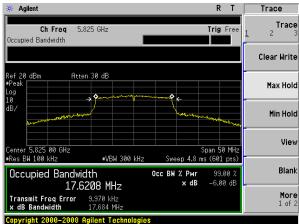
(802.11 n20) 6dB Bandwidth plot on channel 157



(802.11a) 6dB Bandwidth plot on channel 165



(802.11 n20) 6dB Bandwidth plot on channel 165

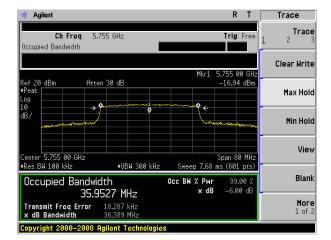


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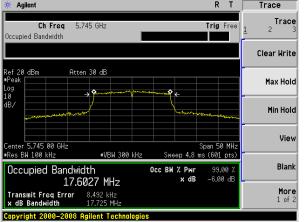




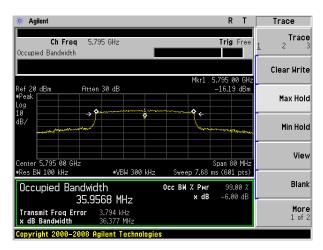
(802.11 n40) 6dB Bandwidth plot on channel 151



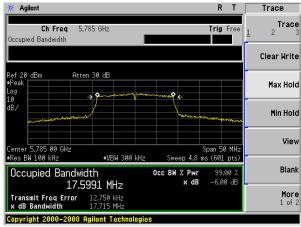
(802.11 ac20) 6dB Bandwidth plot on channel 149



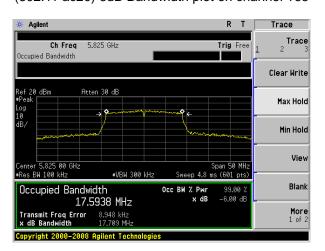
(802.11 n40) 6dB Bandwidth plot on channel 159



(802.11 ac20) 6dB Bandwidth plot on channel 157



(802.11 ac20) 6dB Bandwidth plot on channel 165

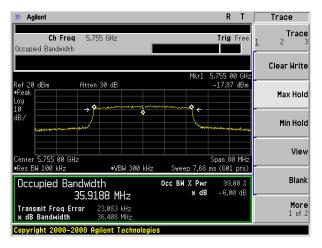


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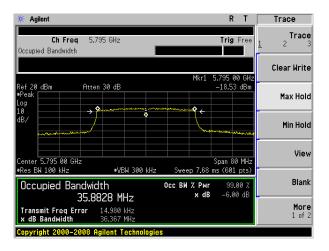




(802.11 ac40) 6dB Bandwidth plot on channel 151



(802.11 ac40) 6dB Bandwidth plot on channel 159



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7. MAXIMUM CONDUCTED OUTPUT POWER

7.1 PPLIED PROCEDURES / LIMIT

According to FCC §15.407

The maximum conduced output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5250~5350	250 mW or 11 dBm + 10 log B (Note)
5470~5725	250 mW or 11 dBm + 10 log B (Note)
5725~5850	1W

Note: the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.

7.2 TEST PROCEDURE

- · Maximum conducted output power may be measured using a spectrum analyzer/EMI receiver or an RF power meter.
 - 1. Device Configuration

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level (see section II.B.).

- a) The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (to no lower than 98 percent) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.
- b) If continuous transmission (or at least 98 percent duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level with the transmit duration as long as possible and the duty cycle as high as possible.
- 2. Measurement using a Spectrum Analyzer or EMI Receiver (SA)

Measurement of maximum conducted output power using a spectrum analyzer requires integrating the spectrum across a frequency span that encompasses, at a minimum, either the EBW or the 99-percent occupied bandwidth of the signal.1 However, the EBW must be used to determine bandwidth dependent limits on maximum conducted output power in accordance with § 15.407(a).

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- a) The test method shall be selected as follows: (i) Method SA-1 or SA-1 Alternative (averaging with the EUT transmitting at full power throughout each sweep) shall be applied if either of the following conditions can be satisfied:
 - The EUT transmits continuously (or with a duty cycle ≥ 98 percent).
- Sweep triggering or gating can be implemented in a way that the device transmits at the maximum power control level throughout the duration of each of the instrument sweeps to be averaged. This condition can generally be achieved by triggering the instrument's sweep if the duration of the sweep (with the analyzer configured as in Method SA-1, below) is equal to or shorter than the duration T of each transmission from the EUT and if those transmissions exhibit full power throughout their durations.
- (ii) Method SA-2 or SA-2 Alternative (averaging across on and off times of the EUT transmissions, followed by duty cycle correction) shall be applied if the conditions of (i) cannot be achieved and the transmissions exhibit a constant duty cycle during the measurement duration. Duty cycle will be considered to be constant if variations are less than ± 2 percent.
- (iii) Method SA-3 (RMS detection with max hold) or SA-3 Alternative (reduced VBW with max hold) shall be applied if the conditions of (i) and (ii) cannot be achieved.
- b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep): (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
 - (ii) Set RBW = 1 MHz.
 - (iii) Set VBW ≥ 3 MHz.
- (iv) Number of points in sweep \geq 2 Span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)
 - (v) Sweep time = auto.
- (vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
 - (viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- (ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum

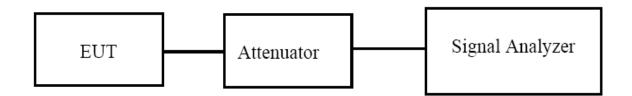
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7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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7.6 TEST RESULTS

HUI.	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2		
Temperature :	25 ℃	Relative Humidity:	60%		
Pressure :	1012 hPa	Test Voltage :	DC 3.7V		
Test Mode :	TX (5G) Mode Frequency Band 1 (5150-5250MHz)				

Test Channel	Frequency	Maximum output power. Antenna port (AV)	LIMIT	Result
	(MHz)	(dBm)	dBm	
		TX 802.11a Mode		
CH36	5180	9.3	23.98	Pass
CH40	5200	10.1	23.98	Pass
CH48	5240	10.7	23.98	Pass
		TX 802.11 n20M Mode		
CH36	5180	9.7	23.98	Pass
CH40	5200	10	23.98	Pass
CH48	5240	10.5	23.98	Pass
		TX 802.11 n40M Mode		
CH38	5190	9.7	23.98	Pass
CH46	5230	10.7	23.98	Pass
		TX 802.11 ac20M Mode)	
CH36	5180	8.8	23.98	Pass
CH40	5200	9.1	23.98	Pass
CH48	5240	9.5	23.98	Pass
TX 802.11 ac40M Mode				
CH38	5190	9.5	23.98	Pass
CH46	5230	10.3	23.98	Pass

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FUI :	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX (5G) Mode Frequency Band IV (5725-5850MHz)		

Test Channel	Frequency	Maximum output power. Antenna port (AV)	LIMIT	Result				
	(MHz)	(dBm)	dBm					
	TX 802.11a Mode							
CH149	5745	11.1	30.00	Pass				
CH157	5785	10.9	30.00	Pass				
CH165	5825	10.9	30.00	Pass				
TX 802.11 n20M Mode								
CH149	5745	10.4	30.00	Pass				
CH157	5785	10.9	30.00	Pass				
CH165	5825	11	30.00	Pass				
TX 802.11 n40M Mode								
CH151	5755	10.6	30.00	Pass				
CH159	5795	10.5	30.00	Pass				
	TX 802.11 ac20M Mode							
CH149	5745	10.9	30.00	Pass				
CH157	5785	11.2	30.00	Pass				
CH165	5825	11.1	30.00	Pass				
TX 802.11 ac40M Mode								
CH151	5755	9.8	30.00	Pass				
CH159	5795	10.5	30.00	Pass				

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8. OUT OF BAND EMISSIONS

8.1 APPLICABLE STANDARD

According to FCC §15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

8.2 TEST PROCEDURE

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
- 4. 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.
- 5. Repeat above procedures until all measured frequencies were complete.

8.3 DEVIATION FROM STANDARD

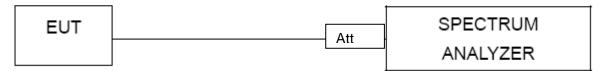
No deviation.

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8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

8.6 TEST RESULTS

 	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2
Temperature:	25 ℃	Relative Humidity:	56%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V

5.2G

5.15~5.25 GHz

(802.11a) Band Edge, Left Side

(802.11n20) Band Edge, Left Side

Atten 30 dB

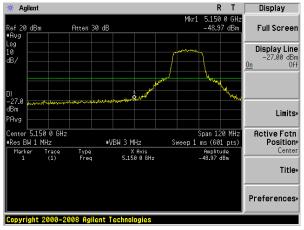
Freq/Channel

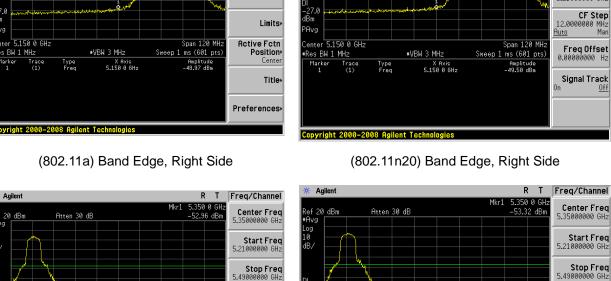
Center Freq 5.15000000 GHz

Start Freq 5.09000000 GHz

Stop Freq 5.21000000 GHz

Signal Track





CF Step 28.0000000 MHz

Span 280 MHz Sweep 1 ms (601 pts) Span 280 MHz Sweep 1 ms (601 pts) 5.350 0 GHz Center 5.350 0 GHz Freq Offset Freq Offset #VBW 3 MHz #Res BW 1 MHz #VBW 3 MHz Type Freq Signal Track Signal Track Copyright 2000-2008 Agilent Technologies Copyright 2000-2008 Agilent Technologies

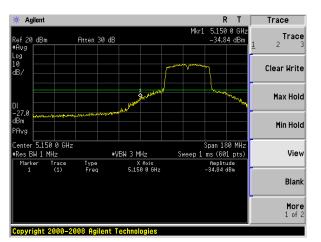
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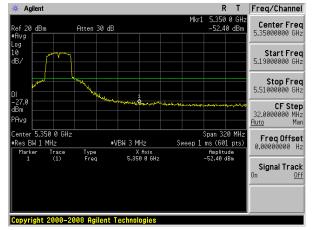


5.15~5.25 GHz

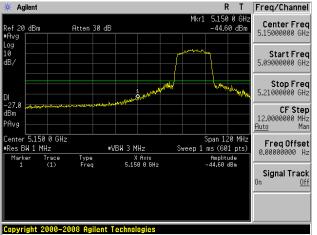
(802.11n40) Band Edge, Left Side



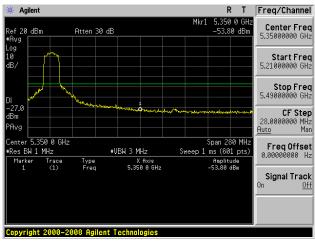
(802.11n40) Band Edge, Right Side



(802.11ac20) Band Edge, Left Side



(802.11ac20) Band Edge, Right Side



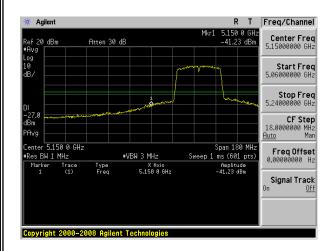
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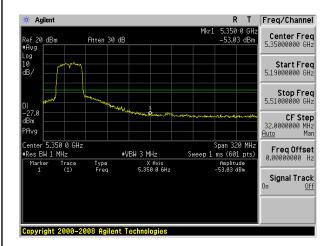


5.15~5.25 GHz

(802.11ac40) Band Edge, Left Side



(802.11ac40) Band Edge, Right Side



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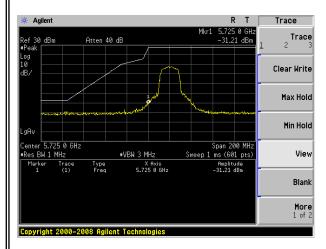




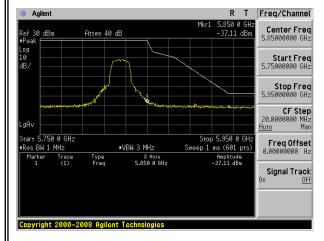
5.8G

5.725~5.850 GHz

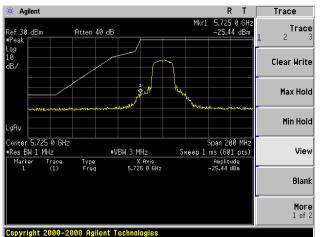
(802.11a) Band Edge, Left Side



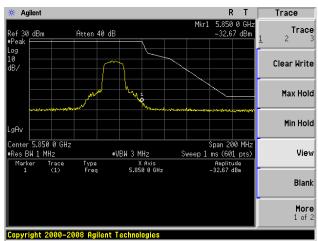
(802.11a) Band Edge, Right Side



(802.11n20) Band Edge, Left Side



(802.11n20) Band Edge, Right Side



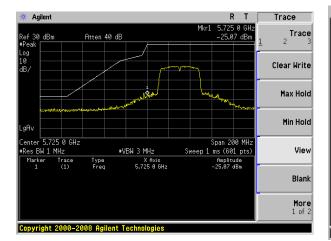
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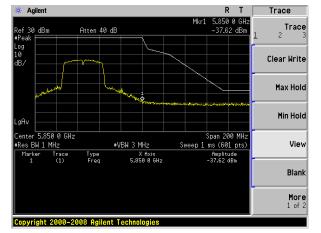


5.725~5.850 GHz

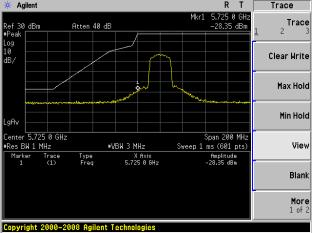
(802.11n40) Band Edge, Left Side



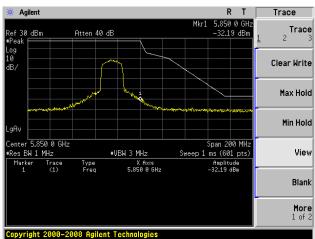
(802.11n40) Band Edge, Right Side



(802.11ac20) Band Edge, Left Side



(802.11ac20) Band Edge, Right Side



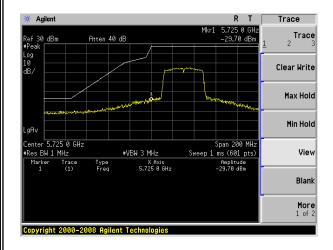
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5.725~5.850 GHz

(802.11ac40) Band Edge, Left Side



(802.11ac40) Band Edge, Right Side



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9.SPURIOUS RF CONDUCTED EMISSIONS

9.1CONFORMANCE 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.

9.2MEASURING INSTRUMENTS

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

9.3TEST SETUP

Please refer to Section 6.1 of this test report.

9.4TEST 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 mwasure frequeny range from 9KHz to 26.5GHz.

9.5TEST 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.

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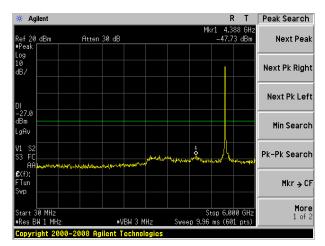




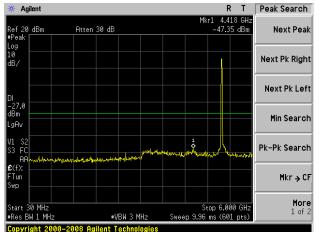
5.2G

Test Plot

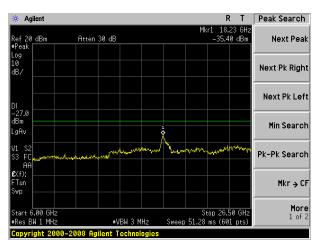
802.11a on channel 36



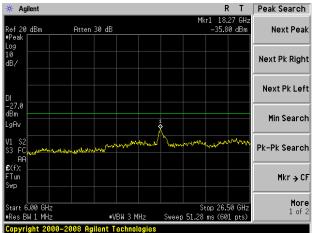
802.11n20 on channel 36



802.11a on channel 36

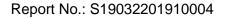


802.11n20 on channel 36



Note: Pre-test all modes and channels, only the worst data is recorded in the report

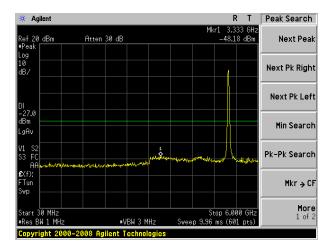
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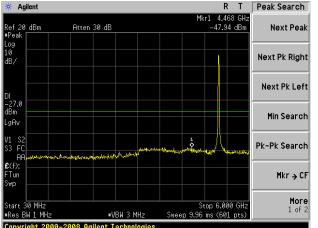




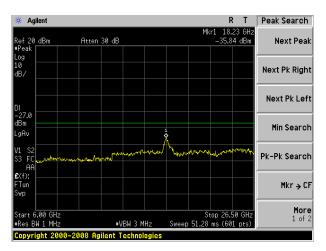
802.11n40 on channel 38



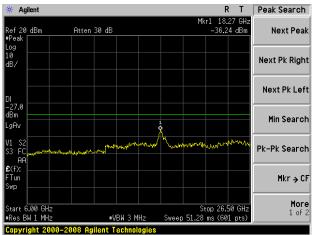
802.11ac20 on channel 36



802.11n40 on channel 38



802.11ac20 on channel 36



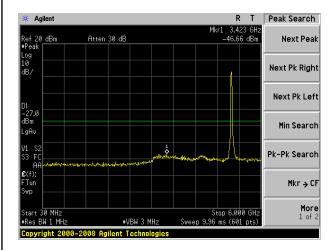
Note: Pre-test all modes and channels, only the worst data is recorded in the report

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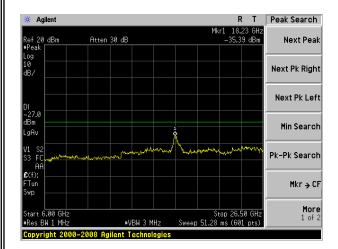




802.11ac40 on channel 38

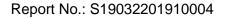


802.11ac40 on channel 38



Note: Pre-test all modes and channels, only the worst data is recorded in the report

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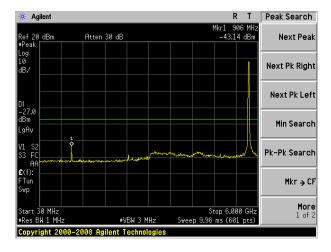




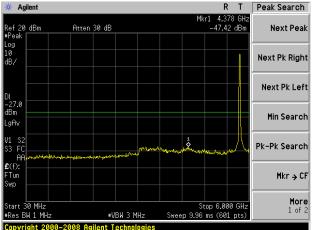
5.8G

Test Plot

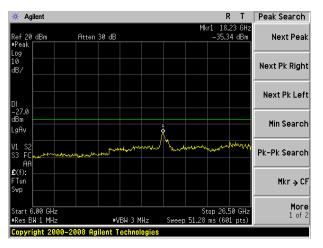
802.11a on channel 149



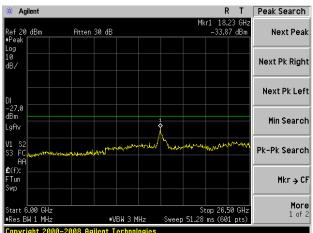
802.11n20 on channel 149



802.11a on channel 149

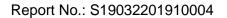


802.11n20 on channel 149



Note: Pre-test all modes and channels, only the worst data is recorded in the report

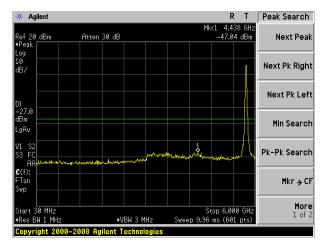
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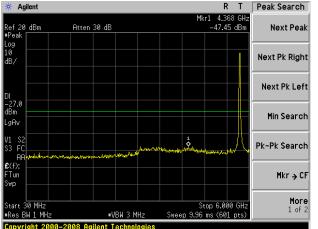




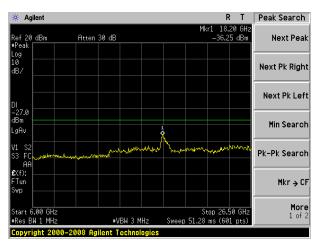
802.11n40 on channel 151



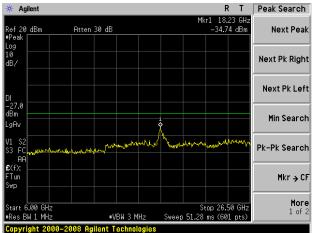
802.11ac20 on channel 149



802.11n40 on channel 151



802.11ac20 on channel 149



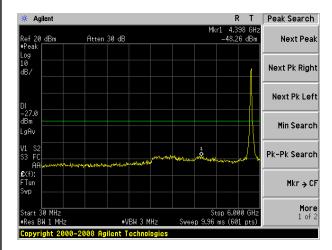
Note: Pre-test all modes and channels, only the worst data is recorded in the report

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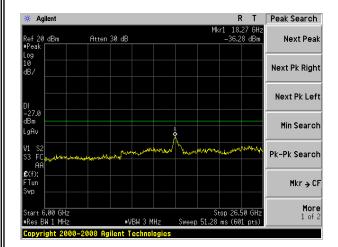




802.11ac40 on channel 151



802.11ac40 on channel 151



Note: Pre-test all modes and channels, only the worst data is recorded in the report

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10. FREQUENCY STABILITY MEASUREMENT

10.1 LIMIT

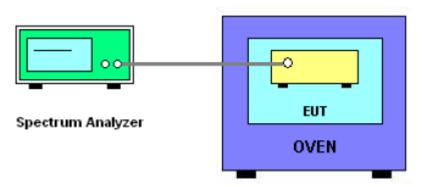
Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

The transmitter center frequency tolerance shall be \pm 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification).

10.2 TEST PROCEDURES

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer.
- 2. EUT have transmitted absence of modulation signal and fixed channelize.
- 3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
- 4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
- 5. fc is declaring of channel frequency. Then the frequency error formula is (fc-f)/fc × 10₆ ppm and the limit is less than ±20ppm (IEEE 802.11nspecification).
- 6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
- 7. Extreme temperature is -20°C~70°C.

10.3 TEST SETUP LAYOUT



10.4 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously un-modulation transmitting mode.

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10.5 TEST RESULTS

 - .	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2				
Temperature:	25 ℃	Relative Humidity:	56%				
Pressure :	1012 hPa Test Voltage : DC 3.7V						
Test Mode :	TX Frequency Band I (5150-5250MHz)						

Voltage vs. Frequency Stability

				Reference Frequency: 5180MHz			
TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
T nom		V nom (V)	3.70	5180.0139	5180	0.0139	-2.6834
(°C)	20	V max (V)	4.20	5180.0196	5180	0.0196	-3.7838
(0)		V min (V)	3.40	5180.0141	5180	0.0141	-2.7220
	Limits			Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

				Refei	rence Fred	quency: 5	180MHz
TEST CONDITIONS				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
		T (°C)	-20	5180.0136	5180	0.0136	-2.6255
		T (°C)	-10	5180.0138	5180	0.0138	-2.6641
		T (°C)	0	5180.0141	5180	0.0141	-2.7220
		T (°C)	10	5180.0144	5180	0.0144	-2.7799
V nom	3.7	T (°C)	20	5180.0139	5180	0.0139	-2.6834
(V)	3.1	T (°C)	30	5180.0138	5180	0.0138	-2.6641
		T (°C)	40	5180.0420	5180	0.0420	-8.1081
		T (°C)	50	5180.0139	5180	0.0139	-2.6834
		T (°C)	60	5180.0143	5180	0.0143	-2.7606
		T (°C)	70	5180.0145	5180	0.0145	-2.7992
	Limits			Within 5150-5250MHz			
	Re	sult		Complies			

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Voltage vs. Frequency Stability

				Reference Frequency: 5200MHz				
TEST CONDITIONS				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
T nom		V nom (V)	3.70	5200.0144	5200	0.0144	-2.7692	
(°C)	20	V max (V)	4.20	5200.0135	5200	0.0135	-2.5962	
(0)		V min (V)	3.40	5200.0139	5200	0.0139	-2.6731	
Limits				Within 5150-5250MHz				
	Result				Complies			

Temperature vs. Frequency Stability

				Refei	rence Fred	quency: 5	200MHz
TI	TEST CONDITIONS				fc	Max. Deviation (MHz)	Max. Deviation (ppm)
		T (°C)	-20	5200.0139	5200	0.0139	-2.6731
		T (°C)	-10	5200.0121	5200	0.0121	-2.3269
		T (°C)	0	5200.0142	5200	0.0142	-2.7308
		T (°C)	10	5200.0147	5200	0.0147	-2.8269
V nom	3.7	T (°C)	20	5200.0136	5200	0.0136	-2.6154
(V)	3.1	T (°C)	30	5200.0128	5200	0.0128	-2.4615
		T (°C)	40	5200.0390	5200	0.0390	-7.5000
		T (°C)	50	5200.0145	5200	0.0145	-2.7885
		T (°C)	60	5200.0140	5200	0.0140	-2.6923
		T (°C)	70	5200.0135	5200	0.0135	-2.5962
	Limits			Within 5150-5250MHz			
	Re	sult		Complies			

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Voltage vs. Frequency Stability

				Refe	Reference Frequency: 5240MHz				
TEST CONDITIONS				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)		
T nom		V nom (V)	3.70	5240.0123	5240	0.0123	-2.3473		
(°C)	20	V max (V)	4.20	5240.0141	5240	0.0141	-2.6908		
(0)		V min (V)	3.40	5240.0123	5240	0.0123	-2.3473		
Limits			Within 5150-5250MHz						
	Result				Complies				

Temperature vs. Frequency Stability

				Refer	ence Fred	quency: 52	240MHz
TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
		T (°C)	-20	5240.0129	5240	0.0129	-2.4618
		T (°C)	-10	5240.0117	5240	0.0117	-2.2328
		T (°C)	0	5240.0136	5240	0.0136	-2.5954
		T (°C)	10	5240.0142	5240	0.0142	-2.7099
V nom	3.7	T (°C)	20	5240.0119	5240	0.0119	-2.2710
(V)	3.1	T (°C)	30	5240.0107	5240	0.0107	-2.0420
		T (°C)	40	5240.0142	5240	0.0142	-2.7099
		T (°C)	50	5240.0158	5240	0.0158	-3.0153
		T (°C)	60	5240.0146	5240	0.0146	-2.7863
		T (°C)	70	5240.0136	5240	0.0136	-2.5954
	Limits			Within 5150-5250MHz			
	Re	sult		Complies			

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FUI.	Dual Channel Full HD Smart Dash Camera	Model Name. :	NEXC2				
Temperature:	25 ℃	Relative Humidity:	56%				
Pressure:	1012 hPa	Test Voltage :	DC 3.7V				
Test Mode :	TX Frequency Band IV (5725-5850MHz)						

Voltage vs. Frequency Stability

				Reference Frequency: 5745MHz				
T nom (°C)	EST CC	ONDITIONS		f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
T nom /º		V nom (V)	3.70	5745.00495	5745	0.00495	-0.8614	
T nom (°	20	V max (V)	4.20	5745.00397	5745	0.00397	-0.6917	
(C)		V min (V)	3.40	5745.00018	5745	0.00018	-0.0313	
Limits				Within 5725-5850MHz				
Result				Complies				

Temperature vs. Frequency Stability

				Refer	ence Fred	quency: 5	745MHz
ТІ	EST CO	NDITIONS	3	f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
		T (°C)	-20	5745.01059	5745	0.01059	-1.8435
		T (°C)	-10	5745.00411	5745	0.00411	-0.7157
		T (°C)	0	5745.01301	5745	0.01301	-2.2639
		T (°C)	10	5745.00367	5745	0.00367	-0.6393
V nom	3.7	T (°C)	20	5745.00299	5745	0.00299	-0.5196
(V)	3.7	T (°C)	30	5745.00697	5745	0.00697	-1.2139
		T (°C)	40	5745.00360	5745	0.00360	-0.6261
		T (°C)	50	5745.00648	5745	0.00648	-1.1277
		T (°C)	60	5745.01168	5745	0.01168	-2.0330
		T (°C)	70	5745.00208	5745	0.00208	-0.3620
Limits				Within 5725-5850MHz			
	Result				Complies		

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Voltage vs. Frequency Stability

				Refere	Reference Frequency: 5785MHz			
TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)		
T nom		V nom (V)	3.70	5785.00333	5785	0.00333	-0.5750	
(°C)	20	V max (V)	4.20	5785.00120	5785	0.00120	-0.2068	
(0)		V min (V) 3.4		5785.00077	5785	0.00077	-0.1338	
	Limits			Within 5725-5850MHz				
	Result				Complies			

Temperature vs. Frequency Stability

	Reference Frequency: 5785MHz										
Т	TEST CONDITIONS				fc	Max. Deviation (MHz)	Max. Deviation (ppm)				
		T (°C)	-20	5785.02069	5785	0.02069	-3.5762				
		T (°C)	-10	5785.01769	5785	0.01769	-3.0578				
		T (°C)	0	5785.01615	5785	0.01615	-2.7911				
		T (°C)	10	5785.01243	5785	0.01243	-2.1483				
V nom	3.7	T (°C)	20	5785.02140	5785	0.02140	-3.6984				
(V)	3.7	T (°C)	30	5785.01026	5785	0.01026	-1.7729				
		T (°C)	40	5785.01054	5785	0.01054	-1.8216				
		T (°C)	50	5785.01482	5785	0.01482	-2.5609				
		T (°C)	60	5785.00897	5785	0.00897	-1.5513				
		T (°C)	70	5785.01392	5785	0.01392	-2.4066				
	Limits			Within 5725-5850MHz							
	Re	sult		Complies							

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Voltage vs. Frequency Stability

			Reference Frequency: 5825MHz				
TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
T nom (°C)	20	V nom (V) 3.70	5825.00898	5825	0.00898	-1.5410	
		V max (V) 4.20	5825.00701	5825	0.00701	-1.2040	
		V min (V) 3.40	5825.01237	5825	0.01237	-2.1228	
Limits			Within 5725-5850MHz				
Result			Complies				

Temperature vs. Frequency Stability

				Reference Frequency: 5825MHz				
TEST CONDITIONS				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
V nom (V)	3.7	T (°C)	-20	5825.01113	5825	0.01113	-1.9111	
		T (°C)	-10	5825.01167	5825	0.01167	-2.0032	
		T (°C)	0	5825.01538	5825	0.01538	-2.6409	
		T (°C)	10	5825.00982	5825	0.00982	-1.6855	
		T (°C)	20	5825.00932	5825	0.00932	-1.6006	
		T (°C)	30	5825.00663	5825	0.00663	-1.1384	
		T (°C)	40	5825.00805	5825	0.00805	-1.3812	
		T (°C)	50	5825.00675	5825	0.00675	-1.1591	
		T (°C)	60	5825.00277	5825	0.00277	-0.4752	
		T (°C)	70	5825.00851	5825	0.00851	-1.4601	
Limits				Within 5725-5850MHz				
Result			Complies					

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11. ANTENNA REQUIREMENT

11.1 STANDARD 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.

11.2 EUT ANTENNA

The EUT antenna is permanent attached FPCB	antenna (antenna gain:	1.6dBi). It comply with
the standard requirement.		

END OF REPORT

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