DEKRA Certification, Inc.
405 Glenn Dr. Suite 12,
Sterling, VA 20164
United States of America

Test Lab
Cert 2764.01

FCC LISTED, REGISTRATION NUMBER: 2764.01

ISED LISTED REGISTRATION NUMBER: 23595-1

Test report No:
4552ERM.025A1

DFS Test report

USA FCC Part 15.407 (U-NIII)
CANADA RSS - 247
Unlicensed National Information Infrastructure Devices Operating in the 5250-5350 MHz and 5470 – 5725 MHz Bands incorporating Dynamic Frequency Selection

Identification of item tested	Display Audio Infotainment Unit
Trademark	Visteon
Model and /or type reference	VW REGIO FLOAT
Other identification of the product	FCC ID: NT8-VWREGIOFLOAT IC: 3043A-VWREGIOFLOAT HVIN H04.1 FVIN 0850
Features	Features: a. USB 3.0 / USB Video, USB Video, USB Hub b. Bluetooth EDR 2.4GHz, Version 4.2 c. Audio BT streaming music, control and browsing d. Wireless 2.4GHz and 5GHz bands e. GNSS Receiver - GPS f. AM/FM single tuner, seek, scan and manual tunning g. Smartphone integration (Apple Car Play and Android Auto), Capability to run local APPs, e-Call
Manufacturer	Visteon Corporation One Village Center Drive, Van Buren Township, MI 48111, USA
Test method requested, standard	USA FCC Part 15.407 07-1-24 Edition : Unlicensed National Information Infrastructure Devices. General technical requirements. Canada RSS-247 Issue 2 (February 2017) 905462 D02 UNII DFS Compliance Procedures New rules V02. Compliance Measurement procedures for Unlicensed National Information Infrastructure (U-NII) Devices operating in the 5250 – 5350 MHz and 5470-5725 MHz bands incorporating Dynamic Frequency selection
Summary	IN COMPLIANCE
Approved by (name / position & signature)	Domingo Galvez EMC&RF Lab Manager
Date of issue	01-14-2025
Report template No	FDT08_23

Digitally signed by Domingo Galvez
DN: cn=Domingo Galvez, o=Dekra Certification Inc., ou=Regulatory Lab Manager, email=domingo.galvez@dekra.com, c=US

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Competences and guarantees

DEKRA Certification Inc. is a testing laboratory accredited by A2LA (The American Association for Laboratory Accreditation), to perform the tests indicated in the Certificate 2764.01

DEKRA Certification Inc. is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA Certification Inc. has a calibration and maintenance program for its measurement equipment.

DEKRA Certification Inc. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Certification at the time of performance of the test.

DEKRA Certification Inc. is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

General conditions

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA Certification Inc.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Certification Inc. and the Accreditation Bodies.

Uncertainty

Uncertainty (factor k=2) was calculated according to the DEKRA Certification internal document PODT000.

Frequency (MHz)	U(k=2)	Units
0,009 - 30	2.69	dB
30-180	3.82	dB
180-1000	2.61	dB
1000-18000	2.92	dB
18000-40000	2.15	dB

Data provided by the client

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").

2. The sample consists of a Display audio Infotainment Unit with capacitive touch screen with the following functionalities: USB 3.0 / USB Video, USB Video, USB Hub, Bluetooth EDR 2.4GHz, Version 4.2, Audio BT streaming music, control and browsing, Wireless 2.4GHz and 5GHz bands, GNSS Receiver - GPS, AM/FM single tuner, seek, scan and manual tunning, Smartphone integration (Apple Car Play and Android Auto), Capability to run local APPs, e-Call.

DEKRA declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples undergoing test have been selected by: The client.

Sample S/01 is composed of the following elements:

Id	Control Number	Description	Manufacturer / Model	Serial Nº	Date of Reception	Application
S/01	4552/01	Volkswagen Infotainment 10" Unit (Conducted)	Visteon / MIB Regio Float	VWZ7Z2C9134279	2024-09-30	Element Under Test
S/01	4555/06	Fakra USB Cable	-		2024-09-09	Accessory
S/01	4555/09	Visteon Skoda Test Panel 1	-	-	2024-09-09	Accessory
S/01	1482	Laptop	LENOVO / V14 G2 ITL	PF3QAFFH	-	Auxiliary

1. Sample S/01 has undergone following test(s): All conducted tests indicated in appendix A & B.

DEKRA Certification, Inc.
405 Glenn Dr. Suite 12,
Sterling, VA 20164
United States of America

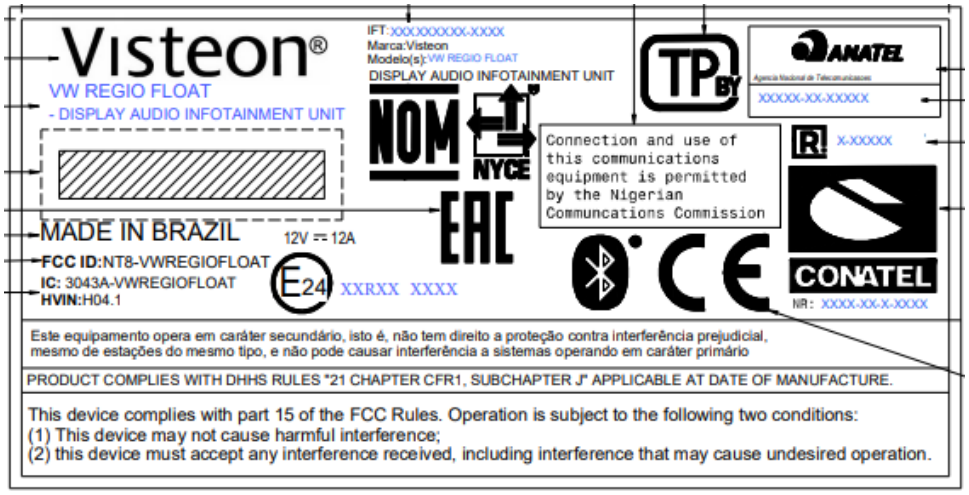
Test sample description

Test Sample description (compulsory information for EMC and RF testing services)

Ports..... :	Port name and description	Cable					
		Specified max length [m]	Attached during test	Shielded	Coupled to patient(3)		
	AM/FM Antenna connector (FAKRA)	1.5	[ ]	[ ]	[ ]		
	GPS Antenna connector (FAKRA)	1.0	[ ]	[ ]	[ ]		
	USB Video Port	0.1	[ ]	[ ]	[ ]		
	USB 3.0	0.1	[ ]	[ ]	[ ]		
	Main connector	-	[ ]	[ ]	[ ]		
	-	-	[ ]	[ ]	[ ]		
Supplementary information to the ports..... :	No Data Provided						
Rated power supply.....:	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	[ ]	AC:	[ ]	[ ]	[ ]	[ ]	[ ]
	[ ]	AC:	[ ]	[ ]	[ ]	[ ]	[ ]
	[ ]	DC:					
	[X]	DC: 12V, 12A (vehicle battery)					
Rated Power.....:	sleep current: 350uA +-30uA; current in normal mode: 10A						
Clock frequencies.....:	LVDS/TFT:76.8MHz / LPDDR4: 1.333GHz eMMC: 197MHz						
Other parameters .....:	No Data Provided						
Software version.....:	0850						
Hardware version .....:	H04.1						
Dimensions in cm (W x H x D).....:	153.5x146.3x275.4 mm						
Mounting position .....:	[ ]	Table top equipment					
	[ ]	Wall/Ceiling mounted equipment					
	[ ]	Floor standing equipment					
	[ ]	Hand-held equipment					
	[X]	Other: Built into vehicle					
Modules/parts.....:	Module/parts of test item		Type	Manufacturer			
	No Data Provided						
Accessories (not part of the test item) .....:	Description		Type	Manufacturer			
	AM/FM/GPS Antenna						
	SMA Connector						
	USB Cable						
	Harness						

Documents as provided by the applicant.....:	Description	File name	Issue date
	Test instructions		
	Technical Files		
	DUT Manual		
	FDT30_18 Declaration Equipment Data - R1 (1)		11/13/2024

Marking Label



Identification of the client

Visteon Corporation
One Village Center Drive, Van Buren Township
MI 48111, USA

Testing period and place

Test Location	DEKRA Certification Inc.
Date (start)	11-04-2024
Date (finish)	11-06-2024

Document history

Report number	Date	Description
4552ERM.025	11-07-2024	First release.
4552ERM.025A1	01-14-2025	Second release. The edition of the test report is updated in the cover page. The test results are also updated in Appendix B and C. This modified test report cancels and replaces the report 4552ERM.025

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 ºC Max. = 35 ºC
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the semi anechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 ºC Max. = 35 ºC
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 ºC Max. = 35 ºC
Relative humidity	Min. = 30 % Max. = 60 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

Remarks and comments

The tests have been performed by the technical personnel: Juliana Cherry.

List of equipment used during the test

Conducted Measurements

Test system Rohde & Schwarz TS 8997:

Control Number	Description	Serial No	Last Calibration	Next Calibration
1039	FSV40 Signal Analyzer 40GHz	101627	2024-07-15	2025-07-15
1040	Open Switch and Control Unit OSP_B157W8	100981	N/A	N/A
1042	SMBV 100A Vector Signal Generator	262575	2024-06-06	2026-06-06
1313	Wireless Measurement Software R&S EMC32	-	N/A	N/A
1491	SMB 100B Signal Generator	17-1018070	2021-12-15	2024-12-15
1497	Espec Chamber UNIT	R21868-04	2022-12-20	2024-12-20

Description of Support Units:

CONTROL NUMBER	DESCRIPTION	MANUFACTURER	MODEL	FCC ID:	SERIAL NO
1295	Router	Linksys	WRT3200ACM	Q87-WRT3200ACM	1981160903165

Note: This device was functioned as a ☐ Master ☒ Slave device during the DFS test

Testing verdicts

Fail	F
Not applicable	N/A
Not measured	N/M
Pass	P

Summary

FCC PART 15 PARAGRAPH / RSS-247 (WIFI 5GHz) 5.25 GHz -5.35 GHz Band						
Report Section	**15.407 Spec Clause**	**RSS Spec Clause**	**Test**	**Test Description**	**Verdict**	**Remark**
-	§ 15.407 (h) (2) & 7.8.1 (*)	RSS 247 6.3	DFS Detection Threshold	UNII Detection Bandwidth	N/A	Refer 1
-	§ 15.407 (h) (2)(ii) & 7.8.2 (*)	RSS 247 6.3	Performance Requirements Check	Initial Channel Availability Check Time (CAC)	N/A	Refer 1
				Radar Burst at the Beginning of the CAC	N/A	Refer 1
				Radar Burst at the End of the CAC	N/A	Refer 1
B.1	§ 15.407 (h) (2)(iii)(iv) & 7.8.3 (*)	RSS 247 6.3	In-Service Monitoring	Channel Move Time	P	Refer 2
				Channel Closing Transmission Time	P	Refer 2
				Non-Occupancy Period	N/A	Refer 1
-	7.8.4 (*)	RSS 247 6.3	Radar Detection	Statistical Performance Check	N/A	Refer 1

Supplementary information and remarks:

* The test set-up was made in accordance to the general provisions of FCC KDB 905462 D02 General UNII Test Procedures New Rules v02.

1) Not required for Client Devices without radar detection, according to the description provided by the applicant.

2) During normal operation

FCC PART 15 PARAGRAPH / RSS-247 (WIFI 5GHz) 5.47 GHz -5.725 GHz Band						
Report Section	**15.407 Spec Clause**	**RSS Spec Clause**	**Test**	**Test Description**	**Verdict**	**Remark**
-	§ 15.407 (h) (2) & 7.8.1 (*)	RSS 247 6.3	DFS Detection Threshold	UNII Detection Bandwidth	N/A	Refer 1
-	§ 15.407 (h) (2)(ii) & 7.8.2 (*)	RSS 247 6.3	Performance Requirements Check	Initial Channel Availability Check Time (CAC)	N/A	Refer 1
				Radar Burst at the Beginning of the CAC	N/A	Refer 1
				Radar Burst at the End of the CAC	N/A	Refer 1
C.1	§ 15.407 (h) (2)(iii)(iv) & 7.8.3 (*)	RSS 247 6.3	In-Service Monitoring	Channel Move Time	P	Refer 2
				Channel Closing Transmission Time	P	Refer 2
				Non-Occupancy Period	N/A	Refer 1
-	7.8.4 (*)	RSS 247 6.3	Radar Detection	Statistical Performance Check	N/A	Refer 1

Supplementary information and remarks:

* The test set-up was made in accordance to the general provisions of FCC KDB 905462 D02 General UNII Test Procedures New Rules v02.

1) Not required for Client Devices without radar detection, according to the description provided by the applicant.
2) During normal operation

U-NII DFS Rule Requirements

WORKING MODES AND REQUIRED TEST ITEMS

The manufacturer shall state whether the EUT can operate as a Master and/or a Client. If the EUT can operate in more than one operating mode, then each operating mode shall be tested separately. See tables 1 and 2 for the applicability of DFS requirements for each of the operational modes.

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	DFS Operational mode		
	Master	Client without radar detection	Client with radar detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS reuqirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

TEST LIMITS AND RADAR SIGNAL PARAMETERS

- DFS DETECTION THRESHOLDS FOR MASTER DEVICES AND CLIENT DEVICES WITH RADAR DETECTION

Maximum Transmit Power EIRP	Value (see note)
≥ 200 mW	-64 dBm
< 200 mW and power spectral density < 10 dBm/MHz	-62 dBm
< 200 mW and That do not meet the power spectral density < 10 dBm/MHz	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

- DFS RESPONSE REQUIREMENT VALUES

Parameter	Value
Non-occupancy period	minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	

- RADAR TEST WAVEFORMS:
  - Short Pulse Radar Test Waveforms:

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{\mathrm{PRI}_{\mu sec}}\right)\right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

A minimum of 30 unique waveforms for each of the Short Pulse Radar Types 2 through 4.

  - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

- Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trails
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type Waveforms.

- Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trails
6	1	333	9	0.333	300	70%	30

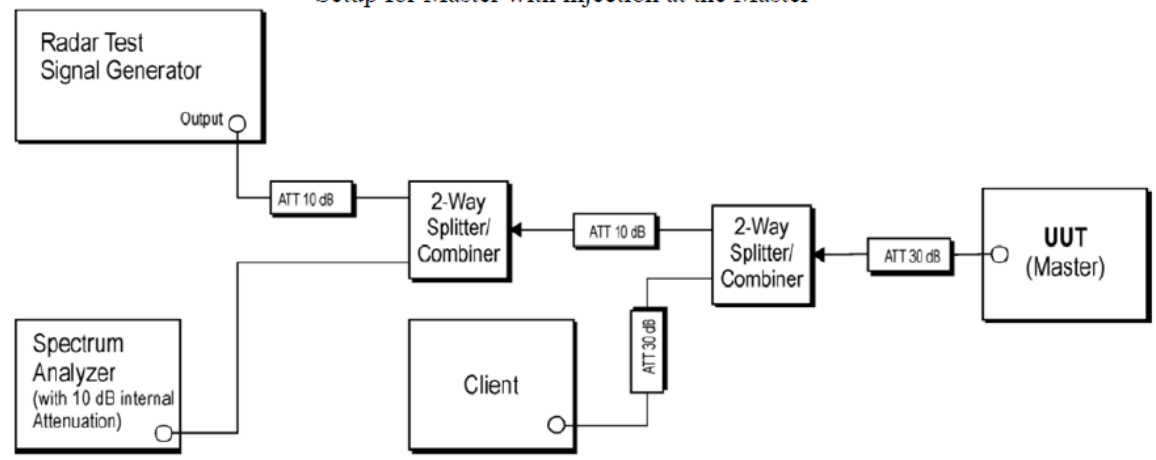
For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined.

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set.

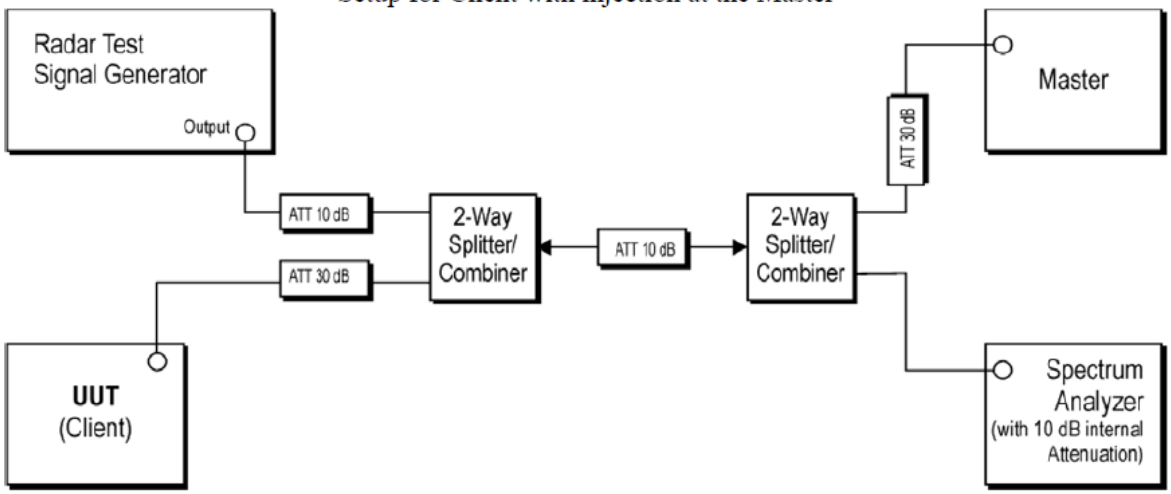
U-NII DFS Test Setup

- Setup Configuration of EUT (Conducted)

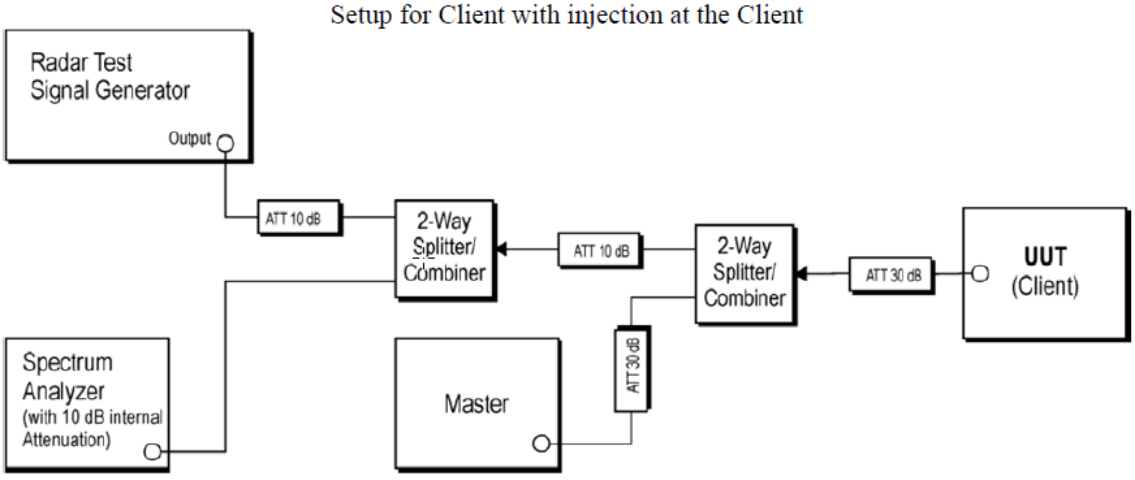
Setup for Master with injection at the Master



Setup for Client with injection at the Master



Setup for Client with injection at the Client



- Channel Loading:

System testing will be performed with channel-loading using means appropriate to the data types that are used by the unlicensed device. The following requirements apply:

a)	The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode.	☐
b)	Software to ping the client is permitted to simulate data transfer but must have random ping intervals.	☒
c)	Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater.	☒
d)	Unicast or Multicast protocols are preferable but other protocols may be used. The appropriate protocol used must be described in the test procedures.	☐

Appendix A: DUT Description

DUT Description

The following information is provided by the client

Information	Description
Equipment type	Wi-Fi 5GHz
DFS Operating Mode	Slave without Radar Detection
TPC Function	Not Supported[1]
Antenna Supported	BT/WLAN Automotive Chip Antenna
- Operating Frequency Range	5250 - 5350 MHz / 5470 -5725 MHz
- Nominal Channel Bandwidth	20/40 MHz
Antenna type	Dedicated antenna (single)
Antenna gain	0 dBi
Supply Voltage	12 Vdc
Max EIRP:	Range: 5250-5350 MHz 802.11a : 12.2 dBm 802.11n20: 8.4 dBm 802.11n40: 7.3 dBm Range: 5470-5725 MHz 802.11a20 : 13.0 dBm 802.11n20: 9.3 dBm 802.11n40: 9.2 dBm
Modulation:	OFDM
Communication Mode:	IP Based (Load Based)
Transmit Data Rate:	IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20: 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2 Mbps IEEE 802.11n HT40: 15, 30, 45, 60, 90, 120, 135, 150 Mbps

1. TPC not required if Max EIRP < 500mW (27 dBm)

Appendix B: Test results 5.25 GHz – 5.35 GHz Band

Appendix B

DESCRIPTION OF TEST CONDITIONS

TEST CONDITIONS	DESCRIPTION
TC#01 **(n mode)**	Power supply (V): $V_{nominal}$ = 3.8 Vdc Test Frequencies for Conducted Testing: (40 MHz) Middle channel: 5270 MHz

TEST B.1: DFS: IN-SERVICE MONITORING

LIMITS:	Product standard:	Part 15 Subpart C §15.407, RSS-247 and KDB: 905462
	Test standard:	Part 15 Subpart C §15.407 (h), RSS-247 6.3 and KDB: 905462 D02

LIMITS:

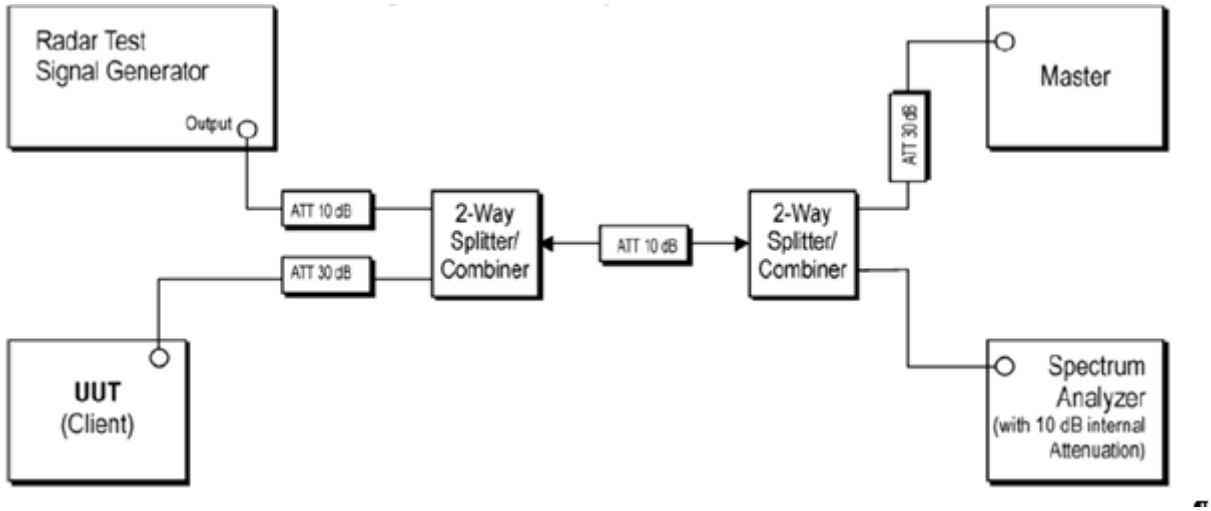
200 ms + an aggregate of 60 ms over remaining 10s period. See Notes 1 and 2.

Note 1: Channel Move Time and the Channel Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel closing Transmission time is comprised of 200 ms starting at the beginning of the channel move time plus any additional intermittent control signals required to facilitate a channel move (an aggregate of 60ms) during the remainder of the 10s period. The aggregate duration of control signals will not count quiet periods in between transmissions.

TEST SETUP:

CLIENT WITHOUT RADAR DETECTION MODE



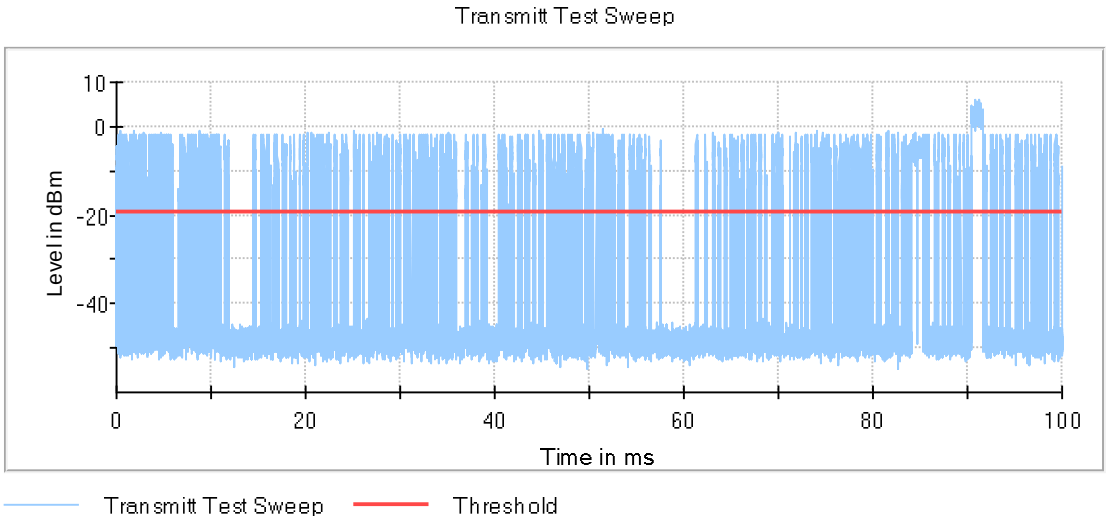
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (n mode 40 MHz)
TEST RESULTS:	PASS

Measurement Summary

DUT Frequency (MHz)	Radar Type No.	Type of Measurement value	Overall Result	Overall Comment
5270.000000	0	First of all Transmit Test	PASS	DUT is transmitting
5270.000000	0	Channel Move Time	PASS	
5270.000000	0	Channel Closing Transmission Time	PASS	

Transmitting Test Detailed Results

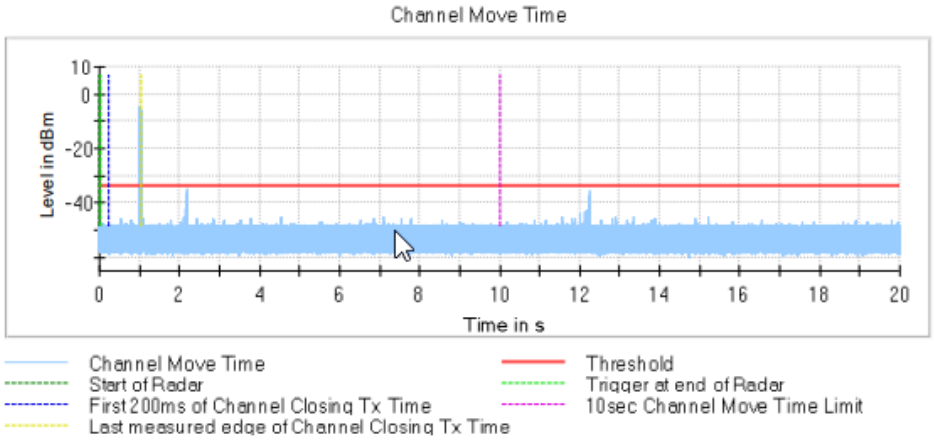
DUT Frequency (MHz)	Tx-Test Tx OnTime (µs)	Tx-Test Tx OnTime Limit	Tx-Test No. of Pulses found	Tx-Test Result
5270.000000	34006.667	>0.000 s	601	PASS



TEST RESULTS (Cont.):	

Channel Move Time Detailed Results

DUT Frequency (MHz)	Radar Type No.	CMT Tx Time (s)	CMT Limit (s)	CMT Result	CMT Comment
5270.000000	0	1.010	10.000	PASS	Tx Time value is last trailing edge found within sweep. See Note 1.

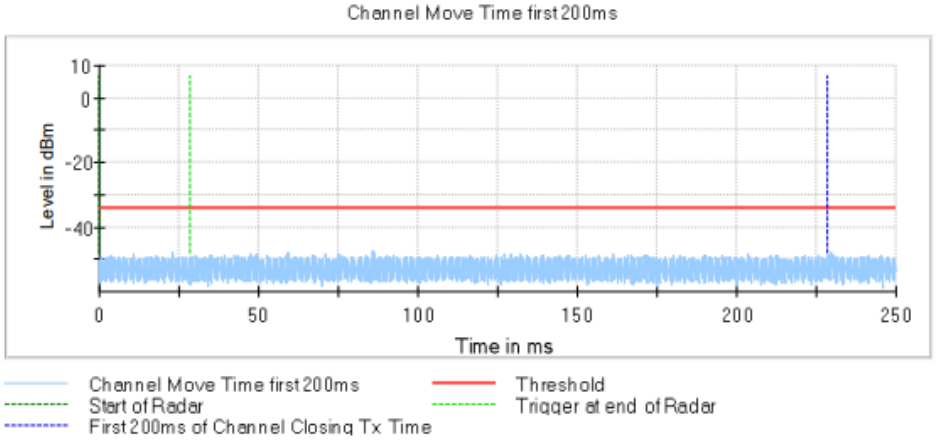


Channel Closing Transmission Time Detailed Results

DUT Frequency (MHz)	Radar Type No.	CCTT Type of Value	CCTT No. of Pulses found	CCTT Tx Time (ms)
5270.000000	0	first 200 ms	0	0.000
5270.000000	0	remaining 10.0	18	0.144

(continuation of the "Channel Closing Transmission Time Detailed Results" table from column 5 ...)

DUT Frequency (MHz)	CCTT Tx Time Limit (ms)	CCTT Result	CCTT Comment
5270.000000	200.000	PASS	See Note 1.
5270.000000	60.000	PASS	See Note 1.



TEST RESULTS (Cont.):

Additional Information

Note	Description
Note 1:	Because of the radar pulse event at the beginning, the investigation of the trace begins with an offset of 28.7 ms conforming to the end of the Radar burst.
Note 2:	Channel move time (CMT) / channel closing transmission time (CCTT) measurement was made with hi resolution video sweep using OSP DAQ channel
Note 3:	Because of the substantially higher sampling rate of the video signal the results for CCTT and CMT are more accurate than in the graphics visible. Reached timing accuracy of the video trace: approx. 4 µs

TEST RESULTS (Cont.):

DUT Checkup

Setting	Instrument Value
Center Frequency	5270.000GHz
Span	ZeroSpan
RBW	3.000 MHz
VBW	3.000 MHz
SweepPoints	30001
Sweeptime	100.000 ms
Reference Level	-10.000 dBm
Attenuation	0.000 dB
Detector	MaxPeak
SweepCount	1
Filter	3 dB
Trace Mode	Clear Write
Sweeptype	Sweep
Preamp	off

Channel Move Time; Channel Closing Transmission Time

Setting	Instrument Value
Center Frequency	5.27000 GHz
Span	ZeroSpan
RBW	3.000 MHz
VBW	3.000 MHz
SweepPoints	30001
Sweeptime	20.000 s
Reference Level	-10.000 dBm
Attenuation	0.000 dB
Detector	MaxPeak
SweepCount	1
Filter	3 dB
Trace Mode	Clear Write
Sweeptype	Sweep
Preamp	off
Trigger	External
Trigger Offset	0.000 s

OSP Video Detector

Setting	Instrument Value
Measurement Time	20.000 s
Samplerate	2500 kHz
Tracepoints	50000000
Time resolution	4.000 µs
Detector	Peak

TEST RESULTS (Cont.):

Radar level verification

Description	Value	Unit
Configured DUT EIRP:	5.37	mW
Configured DUT PSD:	-6.81	dBm/MHz
Requirement of the Detection threshold value for these given values acc. to FCC clause 5.2 / Table 3	-62	dBm
Vector Generator level setting	-2.28	dBm
Configured overall pathlost from Vector Generator RF out to DUT connector of 'DUT to OSP'-cable	34.72	dB
Given additional level added to the amplitude of the waveform to account for variations in measurement equipment acc. to FCC clause 5.2 / Table 3 / Note 2	1.00	dB
This results in the following radar signal level at the DUT	-37.00	dBm

Appendix C: Test results
5.470 GHz – 5.725 GHz Band

Appendix C

DESCRIPTION OF TEST CONDITIONS

TEST CONDITIONS	DESCRIPTION
TC#01 **(n mode)**	Power supply (V): $V_{nominal}$ = 12 Vdc Test Frequencies for Conducted: (40 MHz) Middle channel: 5550 MHz

TEST C.1: DFS: IN-SERVICE MONITORING

LIMITS:	Product standard:	Part 15 Subpart C §15.407, RSS-247 and KDB: 905462
	Test standard:	Part 15 Subpart C §15.407 (h), RSS-247 6.3 and KDB: 905462 D02

LIMITS:

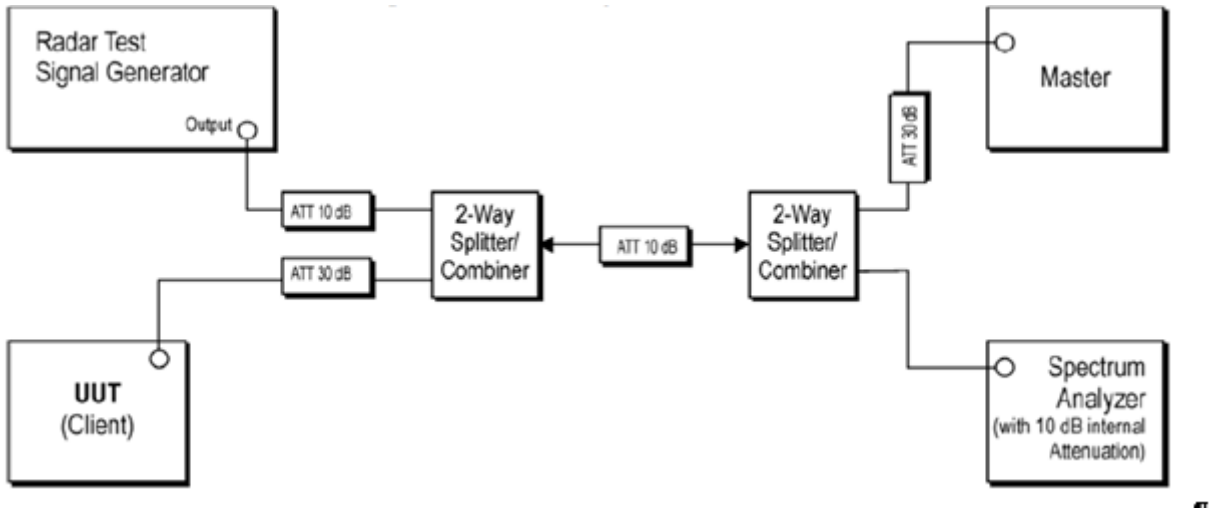
200 ms + an aggregate of 60 ms over remaining 10s period. See Notes 1 and 2.

Note 1: Channel Move Time and the Channel Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel closing Transmission time is comprised of 200 ms starting at the beginning of the channel move time plus any additional intermittent control signals required to facilitate a channel move (an aggregate of 60ms) during the remainder of the 10s period. The aggregate duration of control signals will not count quiet periods in between transmissions.

TEST SETUP:

CLIENT WITHOUT RADAR DETECTION MODE



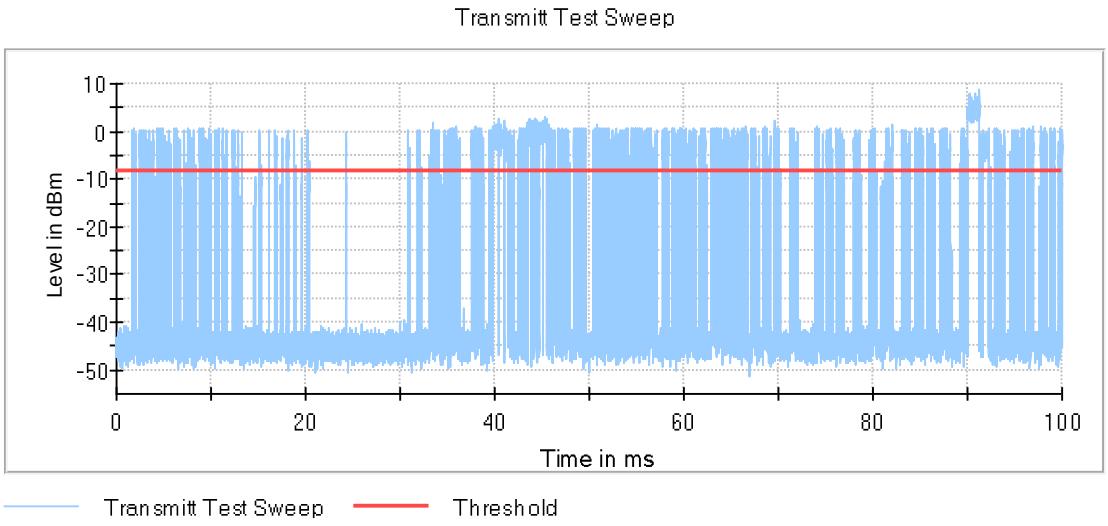
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (n mode 40 MHz)
TEST RESULTS:	PASS

Measurement Summary

DUT Frequency (MHz)	Radar Type No.	Type of Measurement value	Overall Result	Overall Comment
5550.000000	0	First of all Transmit Test	PASS	DUT is transmitting
5550.000000	0	Channel Move Time	PASS	
5550.000000	0	Channel Closing Transmission Time	PASS	

Transmitting Test Detailed Results

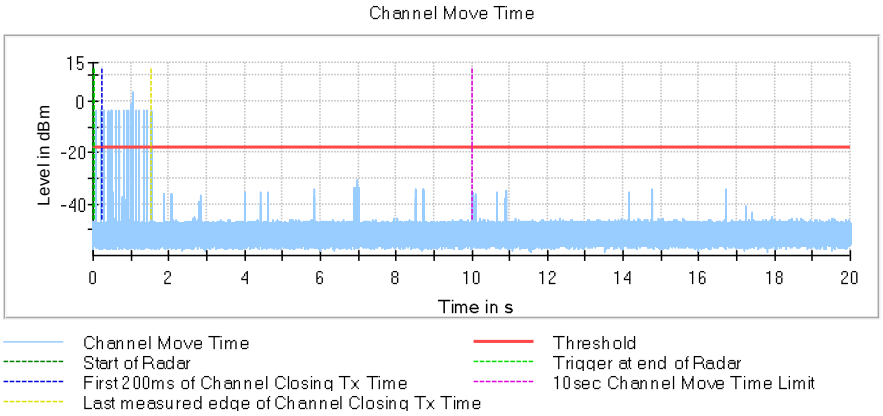
DUT Frequency (MHz)	Tx-Test Tx OnTime	Tx-Test Tx OnTime Limit	Tx-Test No. of Pulses found	Tx-Test Result
5550.000000	31263.333	>0.000 s	475	PASS



TEST RESULTS (Cont.):	

Channel Move Time Detailed Results

DUT Frequency (MHz)	Radar Type No.	CMT Tx Time (s)	CMT Limit (s)	CMT Result	CMT Comment
5550.000000	0	1.499	10.000	PASS	Tx Time value is last trailing edge found within sweep. See Note 1.

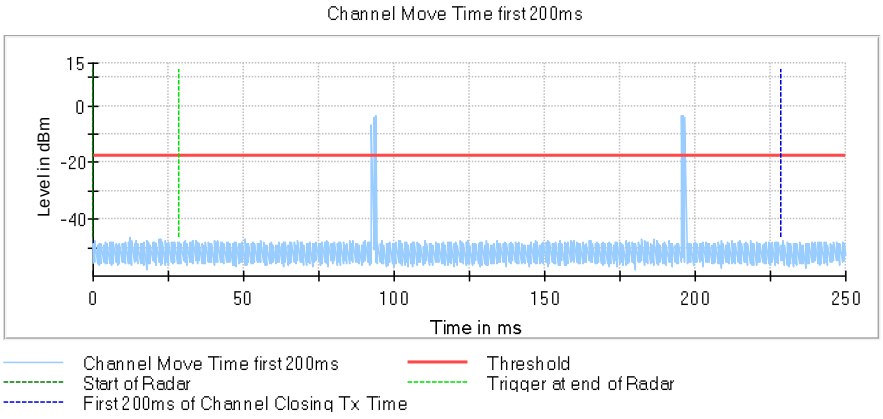


Channel Closing Transmission Time Detailed Results

DUT Frequency (MHz)	Radar Type No.	CCTT Type of Value	CCTT No. of Pulses found	CCTT Tx Time (ms)
5550.000000	0	first 200 ms	4	2.468
5550.000000	0	remaining 10.0	47	16.940

(continuation of the "Channel Closing Transmission Time Detailed Results" table from column 5 ...)

DUT Frequency (MHz)	CCTT Tx Time Limit (ms)	CCTT Result	CCTT Comment
5550.000000	200.000	PASS	See Note 1.
5550.000000	60.000	PASS	See Note 1.



TEST RESULTS (Cont.):

Additional Information

Note	Description
Note 1:	Because of the radar pulse event at the beginning, the investigation of the trace begins with an offset of 28.7 ms conforming to the end of the Radar burst.
Note 2:	Channel move time (CMT) / channel closing transmission time (CCTT) measurement was made with hi resolution video sweep using OSP DAQ channel
Note 3:	Because of the substantially higher sampling rate of the video signal the results for CCTT and CMT are more accurate than in the graphics visible. Reached timing accuracy of the video trace: approx. 4 µs

TEST RESULTS (Cont.):

DUT Checkup

Setting	Instrument Value
Center Frequency	5.55000 GHz
Span	ZeroSpan
RBW	3.000 MHz
VBW	3.000 MHz
SweepPoints	30001
Sweeptime	100.000 ms
Reference Level	-10.000 dBm
Attenuation	0.000 dB
Detector	MaxPeak
SweepCount	1
Filter	3 dB
Trace Mode	Clear Write
Sweeptype	Sweep
Preamp	off

Channel Move Time; Channel Closing Transmission Time

Setting	Instrument Value
Center Frequency	5.55000 GHz
Span	ZeroSpan
RBW	3.000 MHz
VBW	3.000 MHz
SweepPoints	30001
Sweeptime	20.000 s
Reference Level	-10.000 dBm
Attenuation	0.000 dB
Detector	MaxPeak
SweepCount	1
Filter	3 dB
Trace Mode	Clear Write
Sweeptype	Sweep
Preamp	off
Trigger	External
Trigger Offset	0.000 s

OSP Video Detector

Setting	Instrument Value
Measurement Time	20.000 s
Samplerate	2500 kHz
Tracepoints	50000000
Time resolution	4.000 µs
Detector	Peak

TEST RESULTS (Cont.):

Radar level verification

Description	Value	Unit
Configured DUT EIRP:	8.32	mW
Configured DUT PSD:	-3.614	dBm/MHz
Requirement of the Detection threshold value for these given values acc. to FCC clause 5.2 / Table 3	-62	dBm
Vector Generator level setting	1.27	dBm
Configured overall pathlost from Vector Generator RF out to DUT connector of 'DUT to OSP'-cable	35.63	dB
Given additional level added to the amplitude of the waveform to account for variations in measurement equipment acc. to FCC clause 5.2 / Table 3 / Note 2	1.00	dB
This results in the following radar signal level at the DUT	-34.36	dBm