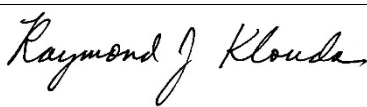


**Engineering Test Report No. 2301707-08**

Report Date	November 13, 2023	
Manufacturer Name	Righthand Technologies Inc	
Manufacturer Address	7450 W. Wilson Ave. Chicago, IL 60706	
Product Name Model No.	CABINLINK6 WAP CL6	
Date Received	July 27, 2023	
Test Dates	October 12, 2023 through November 8, 2023	
Specifications	FCC title 47 part 15 §15.407(h) and KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02	
Test Facility	Elite Electronic Engineering, Inc. 1516 Centre Circle, Downers Grove, IL 60515	FCC Reg. Number: 269750 IC Reg. Number: 2987A CAB Identifier: US0107
Signature		
Tested by	Javier Cardenas	
Signature		
Approved by	Raymond J. Klouda, Registered Professional Engineer of Illinois – 44894	
PO Number	PO006498	

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

This report shall not be reproduced, except in full, without the written approval of Elite Electronic Engineering Inc.

Elite Electronic Engineering Incorporated certifies that the information contained in this report was obtained under conditions which meet or exceed those specified in the test specification. The data presented in this test report pertains to the EUT on the test date(s) specified. Any electrical or mechanical modifications made to the EUT subsequent to the specified test date will serve to invalidate the data and void this certification. This report must not be used to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the Federal Government.

Table of Contents

1.	Report Revision History	3
2.	Introduction	4
2.1.	Scope of Tests	4
2.2.	Purpose	4
2.3.	Identification of the EUT	4
3.	Power Input	4
4.	Grounding	4
5.	Support Equipment	4
6.	Interconnect Leads	4
7.	Modifications Made to the EUT	4
8.	Modes of Operation	5
9.	Test Specification	5
10.	Test Plan	5
11.	Deviation, Additions to, or Exclusions from Test Specifications	5
12.	Laboratory Conditions	5
13.	Summary	5
14.	Statement of Conformity	5
15.	Certification	5
16.	Photographs of EUT	6
17.	Equipment List	7
18.	DFS	8
18.1.	DUT Information	8
18.2.	Summary	9
18.3.	DFS Channel Availability Check (5290 MHz; 18.000 dBm; 80 MHz)	10
18.4.	DFS In-Service Monitoring (5290 MHz; 18.000 dBm; 80 MHz)	17
18.5.	DFS Statistical Performance Check (5320 MHz; 18.000 dBm; 20 MHz)	22
18.6.	DFS Statistical Performance Check (5310 MHz; 18.000 dBm; 40 MHz)	44
18.7.	DFS Statistical Performance Check (5290 MHz; 18.000 dBm; 80 MHz)	64
18.8.	DFS U-NII Detection Bandwidth (5320 MHz; 18.000 dBm; 20 MHz)	82
18.9.	DFS U-NII Detection Bandwidth (5310 MHz; 18.000 dBm; 40 MHz)	84
18.10.	DFS U-NII Detection Bandwidth (5290 MHz; 18.000 dBm; 80 MHz)	86
19.	Scope of Accreditation	88

**This report shall not be reproduced, except in full,
without the written approval of Elite Electronic Engineering Inc.**

1. Report Revision History

Revision	Date	Description
–	20 NOV 2023	Initial Release

2. Introduction

2.1. Scope of Tests

This document presents the results of a series of DFS tests that were performed on the Righthand Technologies Inc CABINLINK6 WAP (hereinafter referred to as the Equipment Under Test (EUT)). The EUT was manufactured and submitted for testing by Righthand Technologies Inc located in Chicago, IL.

2.2. Purpose

The test series was performed to determine if the EUT meets the RF emission requirements of the FCC title 47 part 15 §15.407(h) and KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02.

2.3. Identification of the EUT

The EUT was identified as follows:

EUT Identification	
Product Description	CABINLINK6 WAP
Model/Part No.	CL6
Serial No.	CL6W100037
Size of EUT	17.5cm Length x 26.5cm Width x 5cm Height
Device Type	Digitally Modulated Transmission Device
Band of Operation	5150 – 5250MHz, 5250 – 5350MHz, 5470 – 5725MHz, 5735 – 5835MHz
Modulation Type	BPSK,QPSK,16-1024-QAM
Antenna Type	antenna array (Qty 4)

The EUT listed above was used throughout the test series.

3. Power Input

The EUT was powered by 28VDC from three (3) conductors (positive, negative and ground).

4. Grounding

The EUT was connected to ground through a ground lug on the chassis to the ground plane in addition to the ground pin on its power cable.

5. Support Equipment

The EUT was submitted for testing along with the following support equipment:

Description	Model #	S/N
Laptop w/ Qualcomm Radio Control Tool SW	---	---
Control Board	---	---

6. Interconnect Leads

The following interconnect cables were submitted with the test item:

Item	Description
RJ45 to M12 Cable	Interconnect lead between EUT and laptop

7. Modifications Made to the EUT

No modifications were made to the EUT during the testing.

8. Modes of Operation

Mode	Description
802.11ax	5320MHz, 20MHz 5310MHz, 40MHz 5290MHz, 80MHz

9. Test Specification

The tests were performed to selected portions of, and in accordance with the FCC title 47 part 15 §15.407(h) and KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02 test specifications.

- Federal Communications Commission “Code of Federal Regulations”, Title 47, Part 15, Subpart E
- Federal Communications Commission “Code of Federal Regulations”, KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02

10. Test Plan

No test plan was provided. Instructions were provided by personnel from Righthand Technologies Inc and used in conjunction with the FCC title 47 part 15 §15.407(h) and KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02 specifications.

11. Deviation, Additions to, or Exclusions from Test Specifications

There were no deviations, additions to, or exclusions from the test specifications during this test series.

12. Laboratory Conditions

Ambient Parameters	Value
Temperature	22°C
Relative Humidity	32%
Atmospheric Pressure	1012.7mb

13. Summary

The following EMC tests were performed and the results are shown below:

Test Description	Requirements	Test Methods	S/N	Results
DFS	FCC 15E KDB 905462	KDB 905462	CL6W100037	Conforms

14. Statement of Conformity

The Righthand Technologies Inc CABINLINK6 WAP, Model No. CL6, Serial No. CL6W100037, did fully conform to the DFS requirements of FCC title 47 part 15 §15.407(h) and KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02.

15. Certification

Elite Electronic Engineering Incorporated certifies that the information contained in this report was obtained under conditions which meet or exceed those specified in the FCC title 47 part 15 §15.407(h) and KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02 test specifications. The data presented in this test report pertains to the EUT as provided by the customer on the test date specified. Any electrical or mechanical modifications made to the EUT subsequent to the specified test date will serve to invalidate the data and void this certification.

16. Photographs of EUT



17. Equipment List

Eq ID	Equipment Description	Manufacturer	Model No.	Serial No.	Frequency Range	Cal Date	Due Date
GSE2	SIGNAL GENERATOR (40GHZ)	ROHDE & SCHWARZ	SMB100A	183293	100KHZ-40GHZ	1/26/2023	1/26/2024
GSF0	VECTOR SIGNAL GENERATOR	ROHDE & SCHWARZ	SMBV100A	260452	9kHz to 6GHz	09/02/2022	09/02/2024
GSFB	OSP120 BASE UNIT	ROHDE & SCHWARZ	OSP120	101071	---	3/30/2023	3/30/2025
GSFE	OSP120	ROHDE & SCHWARZ	OSP120	101288	.01-40GHZ	4/4/2023	4/4/2025
RBG4	EMI ANALYZER	ROHDE & SCHWARZ	ESW44	103007	2HZ-44GHZ	12/8/2022	12/8/2023
RBH5	EMI ANALYZER	ROHDE & SCHWARZ	ESW26	103068	2HZ-26GHZ	12/8/2022	12/8/2023
XYF2	POWER SPLITTER	AGILENT	11667A	MY42254138	DC TO 18GHZ	3/22/2022	3/22/2024

N/A: Not Applicable

I/O: Initial Only

CNR: Calibration Not Required

NOTE 1: For the purpose of this test, the equipment was calibrated over the specified frequency range, pulse rate, or modulation prior to the test or monitored by a calibrated instrument.

18. DFS

18.1. DUT Information

Frequencies

WLAN CH 58 (5290 MHz)

WLAN CH 62 (5310 MHz)

WLAN CH 64 (5320 MHz)

Bandwidths

80 MHz (80 MHz)

40 MHz (40 MHz)

20 MHz (20 MHz)

Power

18.000 dBm (18 dBm)

18.000 dBm (18 dBm)

18.000 dBm (18 dBm)

DUT Settings

No. of transmission chains

4

DFS capability

Yes

DFS Mode

Primary

Startup time (incl. CAC)

130.00 seconds

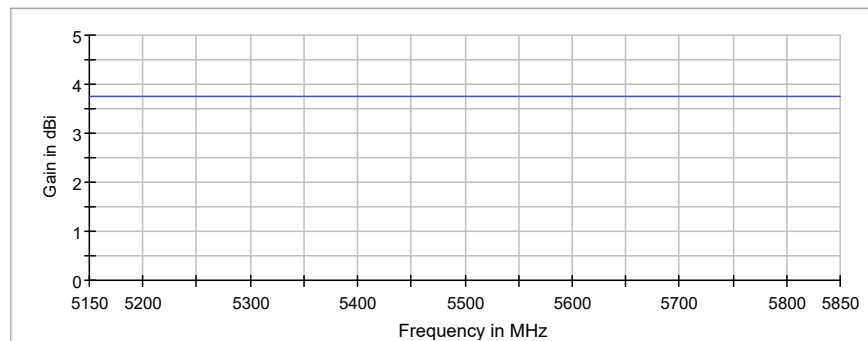
Startup time delay

1.00 seconds

Conf. occ. bandwidth for :

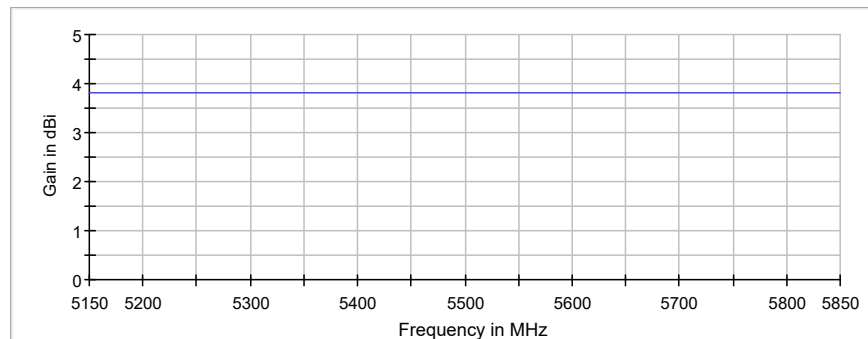
80.000 MHz, 40.000 MHz, 20.000 MHz

Gaintable Ant1

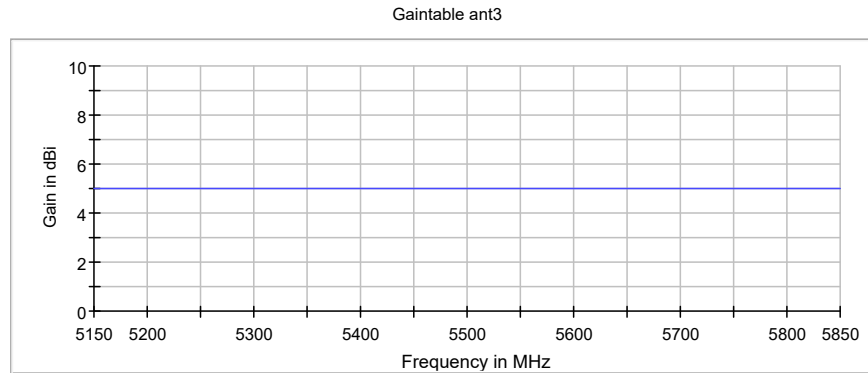


Gaintable: Ant1

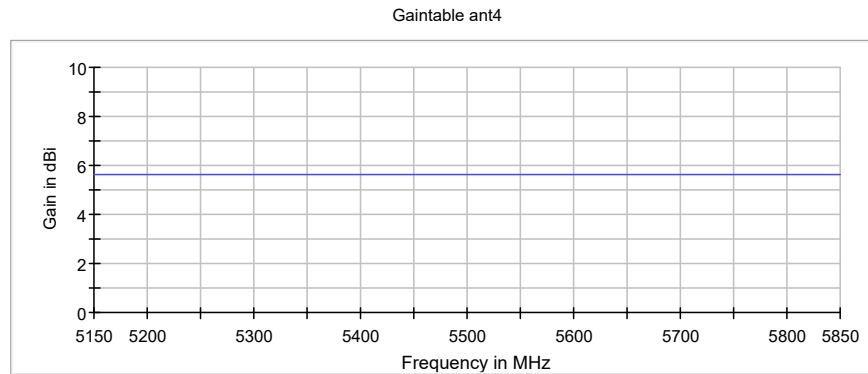
Gaintable ant2



Gaintable: ant2



— Gaintable: ant3



— Gaintable: ant4

18.2. Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
DFS Channel Availability Check	5290.000	18.0	80.000000	PASS
In-Service Monitoring	5290.000	18.0	80.000000	PASS
Statistical Performance Check	5320.000	18.0	20.000000	PASS
Statistical Performance Check	5310.000	18.0	40.000000	PASS
Statistical Performance Check	5290.000	18.0	80.000000	PASS
U-NII Detection Bandwidth	5320.000	18.0	20.000000	PASS
U-NII Detection Bandwidth	5310.000	18.0	40.000000	PASS
U-NII Detection Bandwidth	5290.000	18.0	80.000000	PASS

18.3. DFS Channel Availability Check (5290 MHz; 18.000 dBm; 80 MHz)

Test according to FCC title 47 part 15 §15.407(h), KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02.

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1%

Measurement uncertainty for Radar Pulse verification = 300 ns (3 samples @ 10MHz samplerate)

Measurement Summary

DUT Frequency (MHz)	Radar Waveform Filename used	CAC Type	Overall Result	Overall Comment
5290.000000	FCC15407_2014-Type0-18.wv	Begin of CAC Phase	PASS	
5290.000000	FCC15407_2014-Type0-18.wv	End of CAC Phase	PASS	

Measurement Detailed Results

DUT Frequency (MHz)	Radar Type No.	CAC Type	Measured Startup time (s)	Configured Startup time (s)	Kind of Measurement
5290.000000	0	Begin of CAC Phase	---	130.000	Before Radar Injection
5290.000000	0	Begin of CAC Phase	---	130.000	After Radar Injection
5290.000000	0	End of CAC Phase	---	130.000	Before Radar Injection
5290.000000	0	End of CAC Phase	---	130.000	After Radar Injection

(continuation of the "Measurement Detailed Results" table from column 6 ...)

DUT Frequency (MHz)	Time of Tx Start (s)	Limit (s)	Result
5290.000000	0.000	0.00	PASS
5290.000000	>150.0	>150.0	PASS
5290.000000	121.248	0.00	PASS
5290.000000	---	>0.0	PASS

(continuation of the "Measurement Detailed Results" table from column 9 ...)

DUT Frequency (MHz)	Comment
5290.000000	No emissions detected; OK
5290.000000	Limit is acquisition time after radar burst. See Note 1.
5290.000000	No emissions detected; OK
5290.000000	No emissions detected; OK

Radar Pulse verification Summary

Radar Type No.	No. of Pulses	Required No. of Pulses	Min. Pulsewidth (μs)	Max. Pulsewidth (μs)	Required Pulsewidth (μs)	Measured Min. PRI (μs)
0	190	18	0.900	1.000	1.000	2.000
0	32	18	0.900	1.000	1.000	2.000

(continuation of the "Radar Pulse verification Summary" table from column 7 ...)

Radar Type No.	Measured Max. PRI (μs)	Required PRI (μs)
0	36606.300	1428
0	36338.300	1428

Radar Pulse verification detail (Begin of CAC Phase)

Radar Type No.	Pulse No.	Pulse width (μs)	Required Pulse width (μs)
0	1	0.900	1.000
0	2	0.900	1.000
0	3	0.900	1.000
0	4	0.900	1.000
0	5	0.900	1.000
0	6	0.900	1.000
0	7	1.000	1.000
0	8	1.000	1.000
0	9	1.000	1.000
0	10	1.000	1.000
0	11	1.000	1.000
0	12	0.900	1.000
0	13	0.900	1.000
0	14	0.900	1.000
0	15	0.900	1.000
0	16	0.900	1.000
0	17	0.900	1.000
0	18	0.900	1.000

Radar Pulse verification detail (End of CAC Phase)

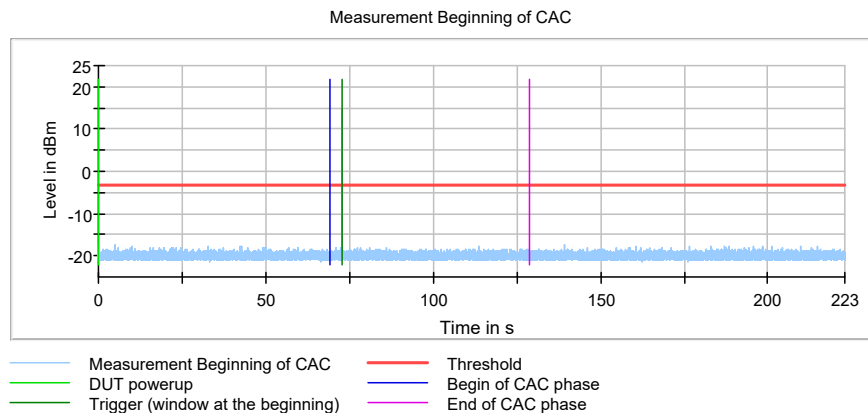
Radar Type No.	Pulse No.	Pulse width (μs)	Required Pulse width (μs)
0	1	0.900	1.000
0	2	0.900	1.000
0	3	0.900	1.000
0	4	0.900	1.000
0	5	0.900	1.000
0	6	0.900	1.000
0	7	1.000	1.000
0	8	1.000	1.000
0	9	1.000	1.000
0	10	1.000	1.000
0	11	0.900	1.000
0	12	0.900	1.000
0	13	0.900	1.000
0	14	0.900	1.000
0	15	0.900	1.000
0	16	0.900	1.000
0	17	0.900	1.000
0	18	0.900	1.000

Radar level verification

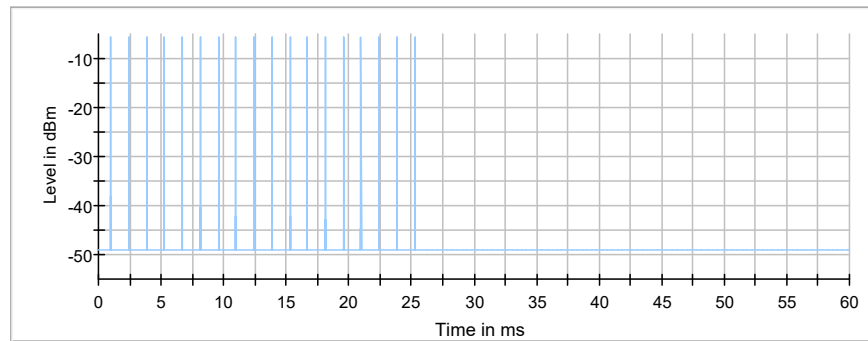
Description / Formula	Value	Unit
IF(({DFS Mode(0/1/2)}=0)or({DFS Mode(0/1/2)}=1) , IF((dBm2W({Nominal Power[dBm]}>0.2) , -64 , IF(({Configured PSD[dBm]}<10) , -62 , -64))+ {Attenuation Vector Generator to DUT[dB]} , -50+ {Attenuation Vector Generator to COMP[dB]}+ {Radar Signal Level Offset[dB]})	Given setting / formula to calculate Vector Generator level	--
Configured DUT EIRP:	63.10	mW
Configured DUT PSD:	-1.03	dBm/MHz
Requirement of the Detection threshold value for this given values acc. to FCC clause 5.2 / Table 3	-62	dBm
Vector Generator level setting	-5.49	dBm
Configured overall pathloss from Vector Generator RF out to DUT connector of 'DUT to OSP'-cable	55.51	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	-61.00	dBm

Additional Information

Note	Description
Note 1:	Sweep of Analyzer and Radar pulse waveform are triggered at the same time. Therefore, the radar pulses maybe can be seen at the trigger point of the trace. Analysis of the Sweeps excludes the covered time for the radar pulses.
Note 2:	The radar signal is simultaneously evaluated as the analyser sweep after radar injection.
Note 3:	Measurement uncertainty due to sampling rate of 10MHz is 300ns (3 samples)
Note 4:	If user defined waveform is configured (myARB.wv) then no additional limits are available and measured values cannot be checked.

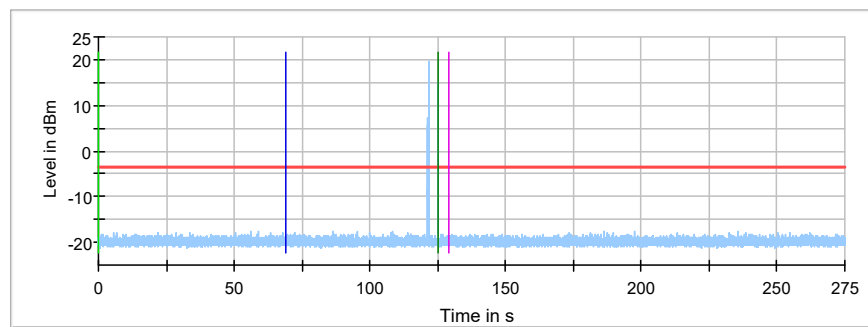


Beginning of CAC; Radar Pulses



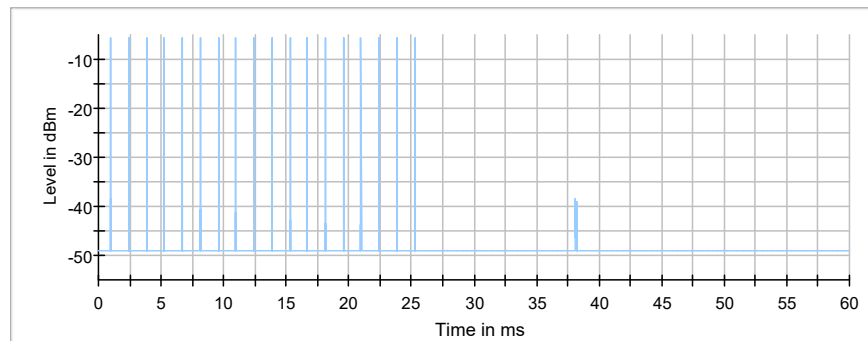
Beginning of CAC; Radar Pulses

Measurement End of CAC



— Measurement End of CAC — Threshold — DUT powerup
— Begin of CAC phase — Trigger (window at the end) — End of CAC phase

End of CAC; Radar Pulses



End of CAC; Radar Pulses

Measurement Beginning of CAC

Startup time

Setting	Instrument Value	Target Value
Center Frequency	5.29000 GHz	5.29000 GHz
Span	Zero Span	Zero Span
RBW	3.000 MHz	≥ 3.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
Sweep Points	1001	~ 1001
Sweep time	20.000 ms	20.000 ms
Reference Level	-5.000 dBm	AUTO
Attenuation	0.000 dB	0.000 dB
Detector	Max Peak	Max Peak
Sweep Count	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweep type	Sweep	AUTO
Preamp	off	off
Trigger	Video	Video
Trigger Mode	constant	constant
Trigger Level	60.000 %	60.000 %
Trigger Offset	0.000 s	0.000 s

Begin of CAC Phase

Setting	Instrument Value	Target Value
Center Frequency	5.29000 GHz	5.29000 GHz
Span	Zero Span	Zero Span
RBW	3.000 MHz	≥ 3.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
Sweep Points	30001	~ 30001
Sweep time	223.000 s	223.000 s
Reference Level	-5.000 dBm	AUTO
Attenuation	0.000 dB	0.000 dB
Detector	Max Peak	Max Peak
Sweep Count	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweep type	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	73.000 s	73.000 s

End of CAC Phase

Setting	Instrument Value	Target Value
Center Frequency	5.29000 GHz	5.29000 GHz
Span	Zero Span	Zero Span
RBW	3.000 MHz	>= 3.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
Sweep Points	30001	~ 30001
Sweep time	275.000 s	275.000 s
Reference Level	-5.000 dBm	AUTO
Attenuation	0.000 dB	0.000 dB
Detector	Max Peak	Max Peak
Sweep Count	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweep type	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	125.000 s	125.000 s

OSP Radar Pulse Detector

Setting	Instrument Value	Target Value
Measurement Time	100.000 ms	100.000 ms
Sample rate	10000 kHz	10000 kHz
Trace points	1000000	1000000
Time resolution	0.100 μ s	0.100 μ s
Detector	Peak	Peak

18.4. DFS In-Service Monitoring (5290 MHz; 18.000 dBm; 80 MHz)

Test according to FCC title 47 part 15 §15.407(h), KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded uncertainty (K=2) for Channel Closing Transmission Time in the first 200 ms: <0.1%

Expanded Uncertainty (K=2) for Channel Closing Transmission Time for the remaining channel move time period:<0.1%

Expanded Uncertainty (K=2) for Channel Move Time:<0.1%

Measurement Summary

DUT Frequency (MHz)	Radar Type No.	Type of Measurement value	Overall Result
5290.000000	0	First of all, Transmit Test	---
5290.000000	0	Channel Move Time	PASS
5290.000000	0	Channel Closing Transmission Time	PASS
5290.000000	0	Non-occupancy period	PASS

(continuation of the "Measurement Summary" table from column 4 ...)

DUT Frequency (MHz)	Overall Comment
5290.000000	not performed / not finished
5290.000000	
5290.000000	
5290.000000	

Channel Move Time Detailed Result

DUT Frequency (MHz)	Radar Type No.	CMT Tx Time (s)	CMT Limit (s)	CMT Result	CMT Comment
5290.000000	0	0.443	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)
5290.000000	0	first 200 ms	0	0.000
5290.000000	0	remaining 10.0 second(s) period	0	0.000

(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
5290.000000	200.000	PASS	See Note 1.
5290.000000	60.000	PASS	See Note 1.

Non-occupancy period Detailed Results

DUT Frequency (MHz)	Radar Type No.	NOP No. of Pulses found	NOP No. of Pulses Limit	NOP Tx Time (s)	NOP Tx Time Limit (s)	NOP Result
5290.000000	0	0	0	0.000	0.000	PASS

Transmitting Test Detailed Results

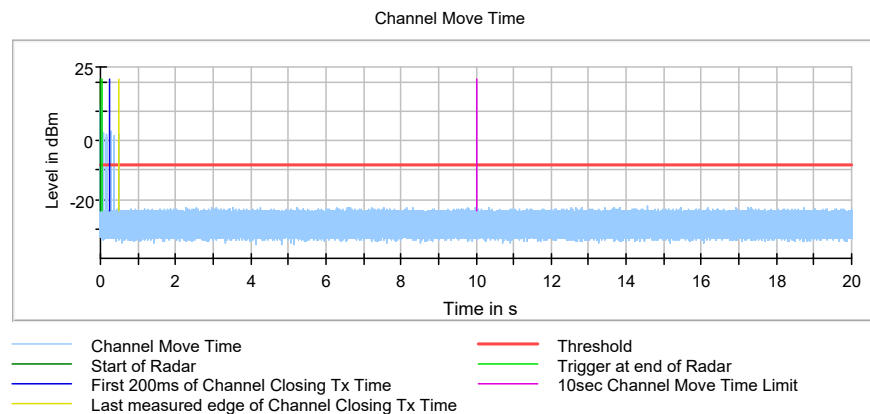
DUT Frequency (MHz)	Tx-Test Result	Tx-Test Comment
5290.000000	---	not performed / not finished

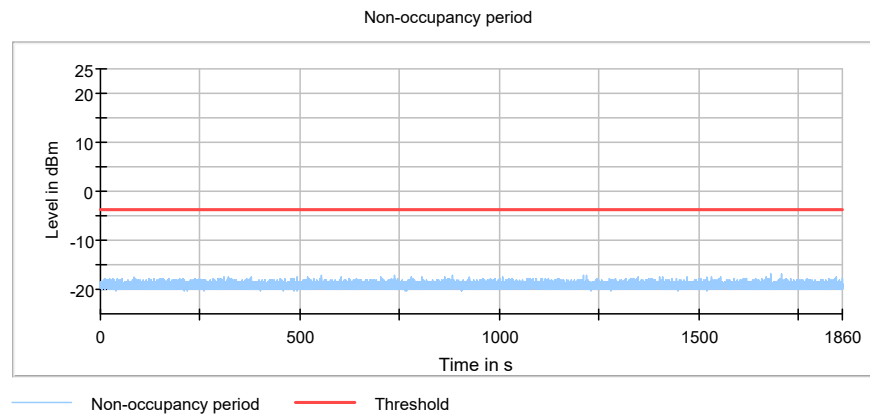
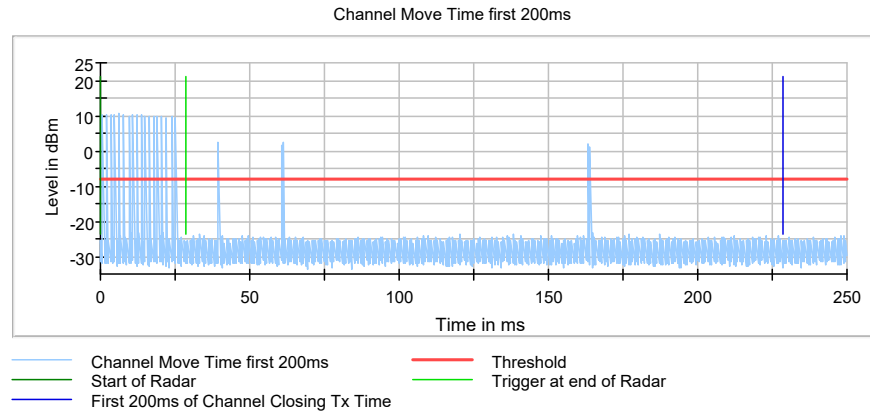
Radar level verification

Description / Formula	Value	Unit
IF(({DFS Mode(0/1/2)}=0)or({DFS Mode(0/1/2)}=1) , IF((dBm2W({Nominal Power[dBm]}>0.2) , -64 , IF(({Configured PSD[dBm]}<10) , -62 , -64))+ {Attenuation Vector Generator to DUT[dB]} , -50+ {Attenuation Vector Generator to COMP[dB]}+ {Radar Signal Level Offset[dB]})	Given setting / formula to calculate Vector Generator level	--
Configured DUT EIRP:	63.10	mW
Configured DUT PSD:	4.99	dBm/MHz
Requirement of the Detection threshold value for this given values acc. to FCC clause 5.2 / Table 3	-62	dBm
Vector Generator level setting	-5.30	dBm
Configured overall pathloss from Vector Generator RF out to DUT connector of 'DUT to OSP'-cable	55.70	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	-61.00	dBm

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: approximately 4 μ s
Note 4:	The Non-Occupancy Period trace starts at the end of the Channel move time trace (20.000 secs.) Labeling of the x-axis (time) is relative to its beginning (0 secs.)





Channel Move Time; Channel Closing Transmission Time

Setting	Instrument Value	Target Value
Center Frequency	5.32000 GHz	5.32000 GHz
Span	ZeroSpan	ZeroSpan
RBW	3.000 MHz	≥ 3.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	30001	~ 30001
SweepTime	20.000 s	20.000 s
Reference Level	-5.000 dBm	AUTO
Attenuation	0.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamplifier	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

Non-occupancy period

Setting	Instrument Value	Target Value
Center Frequency	5.32000 GHz	5.32000 GHz
Span	ZeroSpan	ZeroSpan
RBW	3.000 MHz	>= 3.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	30001	~ 30001
Sweptime	1.860 ks	1.860 ks
Reference Level	-5.000 dBm	AUTO
Attenuation	0.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

OSP Video Detector

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

18.5. DFS Statistical Performance Check (5320 MHz; 18.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.407(h), KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1%

Measurement Summary

DUT Frequency (MHz)	Radar Type No.	Detection count	Percentage of Detection P _x	Detection Limit	Overall Result	Overall Comment
5320.000000	1	29 of 30	96.67%	60.0 %	PASS	
5320.000000	2	30 of 30	100.00%	60.0 %	PASS	
5320.000000	3	30 of 30	100.00%	60.0 %	PASS	
5320.000000	4	30 of 30	100.00%	60.0 %	PASS	
5320.000000	5	30 of 30	100.00%	60.0 %	PASS	
5320.000000	6	30 of 30	100.00%	60.0 %	PASS	

Aggregate Results for Short Pulse Radar Type 1-4

Aggregate Calculation as follows	Aggregate Percentage	Aggregate Limit	Aggregate Result
(P1 + P2 + P3 + P4) / 4	---	---	---

(continuation of the "Aggregate Results for Short Pulse Radar Type 1-4" table from column 4 ...)

Aggregate Calculation as follows	Aggregate Comment
(P1 + P2 + P3 + P4) / 4	not calculated because of not all radar waveform types 1 to 4 are measured

Detailed Results for Radar Type 1

Trial Number	Random Trial used	Pulse Width (μs)	PRI (μs)	No. of Pulses	Pulses Detected	Comment
1	35	1.000	1596.000	34	YES	
2	45	1.000	2572.000	21	YES	
3	11	1.000	718.000	74	No	
4	22	1.000	938.000	57	YES	
5	6	1.000	618.000	86	YES	
6	28	1.000	912.000	58	YES	
7	42	1.000	2279.000	24	YES	
8	15	1.000	798.000	67	YES	
9	17	1.000	838.000	63	YES	
10	40	1.000	2084.000	26	YES	
11	1	1.000	518.000	102	YES	
12	48	1.000	2864.000	19	YES	
13	50	1.000	3060.000	18	YES	
14	29	1.000	1010.000	53	YES	
15	37	1.000	1791.000	30	YES	
16	39	1.000	1986.000	27	YES	
17	23	1.000	3066.000	18	YES	
18	41	1.000	2181.000	25	YES	
19	21	1.000	918.000	58	YES	
20	31	1.000	1205.000	44	YES	
21	44	1.000	2474.000	22	YES	
22	10	1.000	698.000	76	YES	
23	3	1.000	558.000	95	YES	
24	7	1.000	638.000	83	YES	
25	30	1.000	1108.000	48	YES	
26	5	1.000	598.000	89	YES	
27	25	1.000	620.000	86	YES	
28	27	1.000	815.000	65	YES	
29	19	1.000	878.000	61	YES	
30	49	1.000	2962.000	18	YES	

Detailed Results for Radar Type 2

Trial Number	Random Trial used	Pulse Width (μs)	PRI (μs)	No. of Pulses	Pulses Detected	Comment
1	6	3.700	161.000	26	YES	
2	38	2.000	180.000	25	YES	
3	50	4.100	158.000	25	YES	
4	35	1.200	206.000	24	YES	
5	31	4.000	154.000	28	YES	
6	42	2.500	215.000	28	YES	
7	3	5.000	192.000	23	YES	
8	13	2.200	193.000	24	YES	
9	41	1.300	219.000	25	YES	
10	49	1.800	159.000	25	YES	
11	30	4.200	173.000	25	YES	
12	8	2.600	175.000	26	YES	
13	34	2.200	197.000	28	YES	
14	40	3.600	230.000	27	YES	
15	28	1.700	216.000	27	YES	
16	18	2.000	153.000	24	YES	
17	11	1.700	224.000	23	YES	
18	1	3.400	168.000	25	YES	
19	7	1.400	185.000	27	YES	
20	17	4.500	213.000	23	YES	
21	9	3.900	212.000	27	YES	
22	4	4.700	200.000	23	YES	
23	16	3.600	194.000	26	YES	
24	15	2.200	180.000	29	YES	
25	48	4.200	227.000	24	YES	
26	5	3.500	226.000	26	YES	
27	19	2.000	200.000	25	YES	
28	20	1.200	185.000	25	YES	
29	26	3.700	217.000	28	YES	
30	23	3.800	187.000	28	YES	

Detailed Results for Radar Type 3

Trial Number	Random Trial used	Pulse Width (μs)	PRI (μs)	No. of Pulses	Pulses Detected	Comment
1	34	6.400	477.000	17	YES	
2	5	8.200	464.000	18	YES	
3	28	9.800	316.000	17	YES	
4	10	9.800	206.000	17	YES	
5	43	6.700	398.000	17	YES	
6	25	9.600	458.000	17	YES	
7	27	6.600	301.000	17	YES	
8	8	7.000	358.000	17	YES	
9	18	6.200	263.000	18	YES	
10	17	8.700	413.000	17	YES	
11	36	9.800	494.000	17	YES	
12	33	9.000	430.000	18	YES	
13	42	8.600	493.000	17	YES	
14	41	7.700	467.000	16	YES	
15	50	7.700	206.000	17	YES	
16	1	8.000	494.000	18	YES	
17	6	7.500	429.000	17	YES	
18	2	7.500	211.000	17	YES	
19	13	8.400	343.000	17	YES	
20	39	7.200	358.000	18	YES	
21	37	7.500	217.000	17	YES	
22	45	6.700	426.000	17	YES	
23	40	7.400	271.000	17	YES	
24	44	7.100	457.000	16	YES	
25	35	7.300	200.000	18	YES	
26	23	9.700	256.000	16	YES	
27	12	8.000	463.000	17	YES	
28	24	6.000	378.000	17	YES	
29	49	6.500	288.000	18	YES	
30	22	6.500	433.000	17	YES	

Detailed Results for Radar Type 4

Trial Number	Random Trial used	Pulse Width (μs)	PRI (μs)	No. of Pulses	Pulses Detected	Comment
1	8	14.100	283.000	15	YES	
2	5	14.100	478.000	15	YES	
3	18	15.600	420.000	15	YES	
4	35	12.600	268.000	13	YES	
5	3	13.600	398.000	15	YES	
6	10	14.200	351.000	12	YES	
7	27	15.600	303.000	13	YES	
8	42	18.500	208.000	14	YES	
9	47	17.700	416.000	12	YES	
10	6	18.500	499.000	13	YES	
11	19	15.700	403.000	16	YES	
12	20	12.300	438.000	13	YES	
13	29	17.300	287.000	16	YES	
14	25	16.600	282.000	16	YES	
15	26	18.900	299.000	16	YES	
16	14	16.600	212.000	16	YES	
17	15	14.700	324.000	13	YES	
18	21	11.700	483.000	16	YES	
19	17	17.100	308.000	15	YES	
20	22	17.800	420.000	13	YES	
21	48	14.500	433.000	12	YES	
22	13	16.000	485.000	14	YES	
23	12	16.000	461.000	13	YES	
24	40	13.600	237.000	15	YES	
25	50	14.400	286.000	12	YES	
26	38	15.500	451.000	15	YES	
27	23	18.300	265.000	14	YES	
28	31	14.400	266.000	14	YES	
29	33	19.500	384.000	13	YES	
30	39	12.400	217.000	14	YES	

Detailed Results for Radar Type 5

Trial Number	Random Trial used	Pulses Detected	Comment
1	27	YES	For detailed burst Data see separate table Type5 Trial1
2	29	YES	For detailed burst Data see separate table Type5 Trial2
3	47	YES	For detailed burst Data see separate table Type5 Trial3
4	38	YES	For detailed burst Data see separate table Type5 Trial4
5	19	YES	For detailed burst Data see separate table Type5 Trial5
6	32	YES	For detailed burst Data see separate table Type5 Trial6
7	9	YES	For detailed burst Data see separate table Type5 Trial7
8	20	YES	For detailed burst Data see separate table Type5 Trial8
9	34	YES	For detailed burst Data see separate table Type5 Trial9
10	31	YES	For detailed burst Data see separate table Type5 Trial10
11	18	YES	For detailed burst Data see separate table Type5 Trial11
12	42	YES	For detailed burst Data see separate table Type5 Trial12
13	33	YES	For detailed burst Data see separate table Type5 Trial13
14	11	YES	For detailed burst Data see separate table Type5 Trial14
15	8	YES	For detailed burst Data see separate table Type5 Trial15
16	15	YES	For detailed burst Data see separate table Type5 Trial16
17	48	YES	For detailed burst Data see separate table Type5 Trial17
18	39	YES	For detailed burst Data see separate table Type5 Trial18
19	30	YES	For detailed burst Data see separate table Type5 Trial19
20	3	YES	For detailed burst Data see separate table Type5 Trial20
21	37	YES	For detailed burst Data see separate table Type5 Trial21
22	45	YES	For detailed burst Data see separate table Type5 Trial22
23	44	YES	For detailed burst Data see separate table Type5 Trial23
24	43	YES	For detailed burst Data see separate table Type5 Trial24
25	6	YES	For detailed burst Data see separate table Type5 Trial25
26	46	YES	For detailed burst Data see separate table Type5 Trial26
27	23	YES	For detailed burst Data see separate table Type5 Trial27
28	16	YES	For detailed burst Data see separate table Type5 Trial28
29	26	YES	For detailed burst Data see separate table Type5 Trial29
30	17	YES	For detailed burst Data see separate table Type5 Trial30

Detailed Results for Radar Type 5_Trial 1

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	55.900	14.000000	1883.000	---	1025.000
2	2	64.100	14.000000	1710.000	---	849.000
3	2	77.200	14.000000	1650.000	---	136.000
4	2	96.600	14.000000	1520.000	---	468.000
5	2	98.000	14.000000	923.000	---	376.000
6	2	66.700	14.000000	1462.000	---	705.000
7	3	66.400	14.000000	1003.000	1192.000	1416.000
8	2	57.000	14.000000	1038.000	---	240.000

Detailed Results for Radar Type 5_Trial 2

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	77.400	20.000000	1666.000	---	613.000
2	3	99.600	20.000000	1128.000	1195.000	1083.000
3	3	95.100	20.000000	1506.000	1563.000	362.000
4	1	84.300	20.000000	---	---	319.000
5	3	88.900	20.000000	1568.000	1152.000	604.000
6	2	69.200	20.000000	995.000	---	451.000
7	2	81.400	20.000000	1689.000	---	791.000
8	2	88.500	20.000000	1286.000	---	359.000
9	3	70.600	20.000000	1189.000	1825.000	241.000
10	3	56.000	20.000000	1217.000	1783.000	317.000

Detailed Results for Radar Type 5_Trial 3

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	53.000	16.000000	1731.000	1776.000	102.000
2	2	61.000	16.000000	988.000	---	570.000
3	1	59.900	16.000000	---	---	566.000
4	1	85.500	16.000000	---	---	213.000
5	3	94.800	16.000000	1100.000	1674.000	103.000
6	3	81.600	16.000000	979.000	1275.000	44.000
7	1	57.300	16.000000	---	---	498.000
8	2	93.800	16.000000	999.000	---	772.000
9	2	75.100	16.000000	1593.000	---	686.000
10	3	96.400	16.000000	1515.000	1372.000	320.000
11	2	59.600	16.000000	1224.000	---	9.000
12	2	69.600	16.000000	1553.000	---	192.000
13	1	84.300	16.000000	---	---	102.000
14	3	70.600	16.000000	1234.000	961.000	644.000
15	1	97.700	16.000000	---	---	436.000

Detailed Results for Radar Type 5_Trial 4

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	79.600	17.000000	1029.000	---	270.000
2	1	90.200	17.000000	---	---	580.000
3	3	66.100	17.000000	1312.000	1766.000	86.000
4	1	95.200	17.000000	---	---	92.000
5	2	76.300	17.000000	1238.000	---	368.000
6	2	75.800	17.000000	1106.000	---	165.000
7	3	50.700	17.000000	1312.000	1580.000	377.000
8	3	56.300	17.000000	1837.000	1154.000	323.000
9	3	56.100	17.000000	1061.000	1394.000	400.000
10	3	81.200	17.000000	1582.000	1379.000	405.000
11	2	89.700	17.000000	1845.000	---	506.000
12	1	97.800	17.000000	---	---	331.000
13	1	75.700	17.000000	---	---	430.000
14	3	50.200	17.000000	1237.000	1653.000	544.000
15	2	52.000	17.000000	1729.000	---	339.000
16	2	69.400	17.000000	1603.000	---	44.000
17	2	67.500	17.000000	1168.000	---	521.000
18	2	98.100	17.000000	958.000	---	384.000
19	3	63.600	17.000000	1260.000	1640.000	194.000

Detailed Results for Radar Type 5_Trial 5

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	1	80.100	9.000000	---	---	183.000
2	2	59.600	9.000000	946.000	---	473.000
3	2	89.000	9.000000	1573.000	---	426.000
4	2	68.300	9.000000	1801.000	---	366.000
5	1	89.400	9.000000	---	---	250.000
6	2	64.000	9.000000	958.000	---	447.000
7	2	82.200	9.000000	1272.000	---	585.000
8	2	67.300	9.000000	1688.000	---	134.000
9	2	52.500	9.000000	1696.000	---	264.000
10	2	84.100	9.000000	1133.000	---	335.000
11	2	53.000	9.000000	1374.000	---	890.000
12	2	62.000	9.000000	1636.000	---	526.000
13	3	96.100	9.000000	1660.000	1103.000	493.000

Detailed Results for Radar Type 5_Trial 6

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	1	80.900	6.000000	---	---	565.000
2	3	55.800	6.000000	1708.000	1448.000	439.000
3	2	93.400	6.000000	985.000	---	706.000
4	2	83.200	6.000000	1912.000	---	758.000
5	3	59.100	6.000000	1594.000	1591.000	79.000
6	2	74.400	6.000000	939.000	---	107.000
7	3	85.400	6.000000	1733.000	1253.000	238.000
8	3	98.000	6.000000	1896.000	1606.000	373.000
9	1	92.100	6.000000	---	---	363.000
10	1	84.400	6.000000	---	---	227.000
11	2	67.400	6.000000	1272.000	---	646.000
12	3	92.000	6.000000	1831.000	1066.000	457.000
13	3	87.500	6.000000	1763.000	1055.000	22.000

Detailed Results for Radar Type 5_Trial 7

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	70.500	17.000000	956.000	---	247.000
2	3	85.800	17.000000	1726.000	1051.000	659.000
3	2	67.600	17.000000	1910.000	---	383.000
4	2	97.900	17.000000	1794.000	---	123.000
5	3	55.000	17.000000	1798.000	1000.000	48.000
6	2	55.900	17.000000	1322.000	---	464.000
7	3	53.400	17.000000	1270.000	1431.000	347.000
8	2	88.300	17.000000	1417.000	---	544.000
9	2	95.600	17.000000	1228.000	---	453.000
10	2	70.400	17.000000	1039.000	---	291.000
11	2	53.000	17.000000	1860.000	---	689.000
12	1	80.600	17.000000	---	---	628.000
13	3	67.000	17.000000	1382.000	1724.000	487.000
14	2	67.300	17.000000	1895.000	---	682.000
15	2	63.100	17.000000	1171.000	---	343.000
16	2	79.400	17.000000	1369.000	---	186.000

Detailed Results for Radar Type 5_Trial 8

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	69.000	7.000000	1220.000	---	20.000
2	3	88.500	7.000000	1376.000	1096.000	45.000
3	2	56.300	7.000000	1207.000	---	779.000
4	2	88.800	7.000000	1793.000	---	532.000
5	1	78.600	7.000000	---	---	577.000
6	2	82.300	7.000000	1534.000	---	549.000
7	1	71.700	7.000000	---	---	612.000
8	2	52.800	7.000000	1891.000	---	631.000
9	1	66.100	7.000000	---	---	166.000
10	2	72.800	7.000000	1460.000	---	381.000
11	2	82.900	7.000000	1293.000	---	451.000
12	3	72.300	7.000000	1224.000	1577.000	61.000
13	2	91.900	7.000000	1281.000	---	619.000
14	3	82.400	7.000000	1570.000	1469.000	99.000

Detailed Results for Radar Type 5_Trial 9

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	68.600	13.000000	1614.000	---	278.000
2	3	78.700	13.000000	1230.000	1429.000	455.000
3	2	72.000	13.000000	1581.000	---	173.000
4	2	75.600	13.000000	977.000	---	212.000
5	2	65.500	13.000000	1725.000	---	589.000
6	2	55.000	13.000000	1600.000	---	3.000
7	1	57.000	13.000000	---	---	642.000
8	2	70.100	13.000000	1454.000	---	556.000
9	2	52.700	13.000000	1212.000	---	448.000
10	3	61.200	13.000000	1845.000	1035.000	543.000
11	2	98.000	13.000000	1740.000	---	298.000
12	2	56.300	13.000000	1488.000	---	3.000
13	3	74.200	13.000000	1454.000	1697.000	589.000
14	1	91.600	13.000000	---	---	282.000
15	3	70.600	13.000000	1578.000	1218.000	414.000

Detailed Results for Radar Type 5_Trial 10

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	78.100	10.000000	1102.000	---	160.000
2	2	51.400	10.000000	957.000	---	633.000
3	3	85.200	10.000000	1076.000	1386.000	363.000
4	1	96.300	10.000000	---	---	992.000
5	1	67.200	10.000000	---	---	751.000
6	3	68.900	10.000000	1284.000	1725.000	149.000
7	2	75.900	10.000000	958.000	---	690.000
8	2	87.000	10.000000	1715.000	---	512.000
9	1	88.500	10.000000	---	---	611.000
10	3	61.000	10.000000	1333.000	1179.000	361.000
11	1	57.000	10.000000	---	---	214.000
12	2	55.900	10.000000	1656.000	---	643.000

Detailed Results for Radar Type 5_Trial 11

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	1	93.600	5.000000	---	---	12.000
2	3	75.700	5.000000	1082.000	1831.000	391.000
3	1	78.600	5.000000	---	---	945.000
4	3	97.800	5.000000	1410.000	1227.000	166.000
5	2	90.700	5.000000	1124.000	---	67.000
6	2	98.300	5.000000	1313.000	---	512.000
7	3	72.800	5.000000	1011.000	1020.000	645.000
8	3	73.700	5.000000	1726.000	1553.000	442.000
9	1	90.200	5.000000	---	---	22.000
10	1	62.700	5.000000	---	---	746.000
11	3	83.300	5.000000	1501.000	1874.000	837.000
12	3	80.000	5.000000	1591.000	1770.000	458.000

Detailed Results for Radar Type 5_Trial 12

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	68.400	12.000000	1658.000	1189.000	811.000
2	3	79.800	12.000000	1645.000	1732.000	1059.000
3	1	86.100	12.000000	---	---	970.000
4	1	83.200	12.000000	---	---	765.000
5	1	97.500	12.000000	---	---	1117.000
6	2	51.300	12.000000	1708.000	---	559.000
7	3	77.900	12.000000	1276.000	1521.000	253.000
8	3	80.800	12.000000	1804.000	959.000	563.000
9	2	82.100	12.000000	1443.000	---	169.000
10	3	65.000	12.000000	1848.000	1035.000	156.000

Detailed Results for Radar Type 5_Trial 13

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	59.500	11.000000	1738.000	---	660.000
2	1	57.000	11.000000	---	---	796.000
3	2	54.400	11.000000	1891.000	---	779.000
4	2	97.500	11.000000	1566.000	---	298.000
5	3	52.000	11.000000	1941.000	1472.000	201.000
6	1	62.500	11.000000	---	---	211.000
7	2	79.100	11.000000	1016.000	---	30.000
8	2	98.600	11.000000	927.000	---	485.000
9	2	52.900	11.000000	1814.000	---	328.000
10	2	64.600	11.000000	1644.000	---	339.000
11	3	75.300	11.000000	1710.000	1296.000	500.000
12	1	74.200	11.000000	---	---	451.000
13	1	58.400	11.000000	---	---	160.000
14	1	97.500	11.000000	---	---	573.000

Detailed Results for Radar Type 5_Trial 14

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	61.700	11.000000	1264.000	1572.000	640.000
2	3	82.600	11.000000	923.000	1387.000	439.000
3	2	74.800	11.000000	1230.000	---	16.000
4	2	77.700	11.000000	1544.000	---	613.000
5	1	80.400	11.000000	---	---	213.000
6	3	88.700	11.000000	1316.000	1461.000	568.000
7	3	78.100	11.000000	1065.000	1167.000	387.000
8	2	56.600	11.000000	1454.000	---	647.000
9	1	63.600	11.000000	---	---	285.000
10	2	73.100	11.000000	1369.000	---	189.000
11	2	67.900	11.000000	994.000	---	165.000
12	2	76.500	11.000000	1164.000	---	480.000
13	1	63.700	11.000000	---	---	28.000
14	2	70.100	11.000000	1823.000	---	516.000
15	2	90.400	11.000000	1694.000	---	561.000
16	2	87.700	11.000000	1528.000	---	420.000
17	3	77.700	11.000000	1339.000	1407.000	61.000
18	1	81.300	11.000000	---	---	67.000

Detailed Results for Radar Type 5_Trial 15

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	93.000	5.000000	1554.000	1785.000	287.000
2	1	83.900	5.000000	---	---	719.000
3	1	58.600	5.000000	---	---	22.000
4	2	51.600	5.000000	1301.000	---	508.000
5	2	86.000	5.000000	971.000	---	394.000
6	2	52.400	5.000000	1014.000	---	126.000
7	2	81.600	5.000000	1650.000	---	756.000
8	2	73.500	5.000000	1428.000	---	653.000
9	1	58.900	5.000000	---	---	761.000
10	1	93.500	5.000000	---	---	118.000
11	2	90.600	5.000000	1774.000	---	108.000
12	2	58.400	5.000000	1448.000	---	740.000
13	2	89.100	5.000000	1406.000	---	689.000
14	2	73.900	5.000000	1071.000	---	160.000
15	1	61.700	5.000000	---	---	172.000

Detailed Results for Radar Type 5_Trial 16

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	50.800	18.000000	1595.000	---	21.000
2	2	52.000	18.000000	1563.000	---	729.000
3	2	58.800	18.000000	1384.000	---	15.000
4	2	79.700	18.000000	979.000	---	261.000
5	1	69.500	18.000000	---	---	533.000
6	2	98.900	18.000000	1015.000	---	493.000
7	2	82.800	18.000000	1634.000	---	218.000
8	1	70.100	18.000000	---	---	1102.000
9	2	89.200	18.000000	1357.000	---	524.000

Detailed Results for Radar Type 5_Trial 17

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	97.900	7.000000	1124.000	---	368.000
2	2	94.200	7.000000	1097.000	---	363.000
3	2	95.600	7.000000	1706.000	---	338.000
4	3	60.700	7.000000	1726.000	1788.000	628.000
5	2	79.600	7.000000	921.000	---	352.000
6	2	55.700	7.000000	1463.000	---	71.000
7	2	92.300	7.000000	1486.000	---	208.000
8	3	59.600	7.000000	1550.000	1830.000	605.000
9	2	95.900	7.000000	1529.000	---	727.000
10	2	87.500	7.000000	1521.000	---	637.000
11	3	81.100	7.000000	961.000	1815.000	593.000
12	3	93.000	7.000000	1246.000	1717.000	400.000
13	3	62.500	7.000000	1219.000	1563.000	742.000
14	1	70.400	7.000000	---	---	627.000
15	2	63.400	7.000000	1345.000	---	439.000
16	1	78.000	7.000000	---	---	663.000

Detailed Results for Radar Type 5_Trial 18

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	1	70.600	15.000000	---	---	302.000
2	1	74.700	15.000000	---	---	299.000
3	1	63.600	15.000000	---	---	82.000
4	2	52.100	15.000000	1812.000	---	536.000
5	1	97.500	15.000000	---	---	395.000
6	2	96.300	15.000000	1335.000	---	250.000
7	3	70.800	15.000000	1052.000	1243.000	462.000
8	3	59.600	15.000000	1059.000	1550.000	477.000
9	3	99.200	15.000000	1633.000	1572.000	254.000
10	1	53.300	15.000000	---	---	33.000
11	3	98.600	15.000000	1526.000	1428.000	564.000
12	3	89.300	15.000000	1017.000	1662.000	221.000
13	1	62.700	15.000000	---	---	248.000
14	2	70.400	15.000000	1855.000	---	232.000
15	3	61.400	15.000000	1444.000	1073.000	470.000
16	1	76.000	15.000000	---	---	441.000
17	2	90.800	15.000000	1164.000	---	195.000
18	3	65.200	15.000000	1246.000	1582.000	246.000
19	3	74.700	15.000000	928.000	1671.000	194.000
20	2	75.100	15.000000	989.000	---	83.000

Detailed Results for Radar Type 5_Trial 19

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	77.900	16.000000	1250.000	---	478.000
2	2	69.500	16.000000	1007.000	---	962.000
3	2	74.500	16.000000	1631.000	---	657.000
4	1	93.900	16.000000	---	---	564.000
5	2	55.400	16.000000	949.000	---	59.000
6	3	50.400	16.000000	1162.000	1396.000	565.000
7	1	68.600	16.000000	---	---	732.000
8	3	88.700	16.000000	1750.000	1835.000	872.000
9	2	54.900	16.000000	1869.000	---	32.000
10	3	51.000	16.000000	970.000	1344.000	750.000
11	3	86.500	16.000000	1599.000	1682.000	364.000

Detailed Results for Radar Type 5_Trial 20

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	54.600	13.000000	1482.000	---	997.000
2	3	58.000	13.000000	1111.000	999.000	712.000
3	3	63.400	13.000000	1268.000	1709.000	269.000
4	3	67.400	13.000000	1035.000	1498.000	377.000
5	3	70.200	13.000000	1122.000	999.000	381.000
6	1	92.500	13.000000	---	---	942.000
7	3	63.900	13.000000	1233.000	1239.000	49.000
8	1	67.700	13.000000	---	---	121.000
9	2	74.700	13.000000	1791.000	---	596.000
10	2	98.000	13.000000	1740.000	---	602.000

Detailed Results for Radar Type 5_Trial 21

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	1	84.500	5.000000	---	---	77.000
2	2	85.100	5.000000	1049.000	---	561.000
3	2	77.500	5.000000	1012.000	---	322.000
4	2	95.300	5.000000	1524.000	---	591.000
5	2	69.000	5.000000	1447.000	---	479.000
6	2	65.200	5.000000	1574.000	---	177.000
7	3	77.400	5.000000	1446.000	1628.000	4.000
8	2	58.000	5.000000	1737.000	---	631.000
9	3	58.500	5.000000	1714.000	1626.000	330.000
10	1	98.600	5.000000	---	---	508.000
11	1	73.900	5.000000	---	---	27.000
12	1	67.700	5.000000	---	---	157.000
13	1	99.000	5.000000	---	---	313.000
14	2	76.800	5.000000	1232.000	---	429.000
15	2	89.900	5.000000	1618.000	---	574.000
16	3	88.000	5.000000	1587.000	1221.000	326.000
17	1	55.100	5.000000	---	---	550.000
18	3	93.900	5.000000	930.000	1084.000	275.000

Detailed Results for Radar Type 5_Trial 22

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	52.400	9.000000	974.000	---	609.000
2	2	55.800	9.000000	1319.000	---	738.000
3	2	58.000	9.000000	1056.000	---	899.000
4	2	50.700	9.000000	975.000	---	575.000
5	1	54.600	9.000000	---	---	73.000
6	2	82.900	9.000000	1205.000	---	107.000
7	2	51.100	9.000000	991.000	---	451.000
8	2	94.700	9.000000	1862.000	---	331.000
9	2	65.500	9.000000	1034.000	---	871.000
10	2	62.000	9.000000	1226.000	---	12.000
11	3	65.600	9.000000	1015.000	1040.000	157.000
12	2	54.800	9.000000	1350.000	---	641.000
13	2	68.900	9.000000	1496.000	---	791.000

Detailed Results for Radar Type 5_Trial 23

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	75.600	14.000000	1717.000	1819.000	814.000
2	2	87.500	14.000000	1850.000	---	108.000
3	1	69.100	14.000000	---	---	310.000
4	2	55.800	14.000000	972.000	---	0.000
5	1	90.600	14.000000	---	---	277.000
6	2	87.800	14.000000	1808.000	---	20.000
7	1	74.000	14.000000	---	---	35.000
8	3	94.800	14.000000	1120.000	938.000	554.000
9	2	57.200	14.000000	1619.000	---	141.000
10	1	56.000	14.000000	---	---	595.000
11	2	99.500	14.000000	1143.000	---	262.000
12	2	66.500	14.000000	1675.000	---	557.000

Detailed Results for Radar Type 5_Trial 24

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	92.800	10.000000	1307.000	1195.000	177.000
2	2	69.200	10.000000	1264.000	---	1014.000
3	2	63.000	10.000000	1830.000	---	875.000
4	1	58.400	10.000000	---	---	470.000
5	2	74.900	10.000000	1531.000	---	184.000
6	2	76.000	10.000000	1488.000	---	679.000
7	2	50.500	10.000000	1360.000	---	296.000
8	1	82.500	10.000000	---	---	645.000
9	3	58.800	10.000000	1168.000	1620.000	345.000
10	2	70.900	10.000000	1468.000	---	205.000
11	1	72.700	10.000000	---	---	702.000

Detailed Results for Radar Type 5_Trial 25

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	1	85.200	14.000000	---	---	99.000
2	3	59.000	14.000000	1887.000	1086.000	687.000
3	1	51.000	14.000000	---	---	381.000
4	2	84.800	14.000000	1906.000	---	520.000
5	3	83.200	14.000000	1466.000	1170.000	910.000
6	3	92.300	14.000000	977.000	1255.000	1.000
7	2	59.400	14.000000	1674.000	---	732.000
8	2	90.700	14.000000	1058.000	---	642.000
9	3	93.100	14.000000	961.000	934.000	359.000
10	3	74.900	14.000000	1673.000	1639.000	602.000
11	2	90.800	14.000000	1227.000	---	430.000
12	3	58.500	14.000000	1625.000	1374.000	10.000
13	1	57.700	14.000000	---	---	804.000

Detailed Results for Radar Type 5_Trial 26

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	52.300	11.000000	1799.000	1297.000	737.000
2	3	53.600	11.000000	1397.000	1860.000	189.000
3	1	59.200	11.000000	---	---	495.000
4	3	54.300	11.000000	1885.000	1319.000	152.000
5	1	75.600	11.000000	---	---	76.000
6	1	52.900	11.000000	---	---	190.000
7	1	97.700	11.000000	---	---	195.000
8	2	50.200	11.000000	1276.000	---	604.000
9	3	95.000	11.000000	1526.000	1582.000	267.000
10	3	77.500	11.000000	1494.000	1729.000	842.000
11	1	66.900	11.000000	---	---	144.000
12	2	96.100	11.000000	1441.000	---	435.000
13	3	62.500	11.000000	1037.000	1474.000	262.000
14	2	53.100	11.000000	1278.000	---	525.000

Detailed Results for Radar Type 5_Trial 27

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	51.000	9.000000	1731.000	---	259.000
2	2	69.300	9.000000	1762.000	---	617.000
3	1	94.600	9.000000	---	---	379.000
4	2	65.100	9.000000	1536.000	---	103.000
5	3	51.100	9.000000	1546.000	1400.000	650.000
6	2	86.100	9.000000	1619.000	---	221.000
7	1	80.000	9.000000	---	---	44.000
8	1	60.800	9.000000	---	---	384.000
9	3	56.200	9.000000	1627.000	1397.000	126.000
10	1	99.700	9.000000	---	---	20.000
11	1	84.000	9.000000	---	---	411.000
12	3	83.100	9.000000	1223.000	1586.000	232.000
13	1	50.900	9.000000	---	---	179.000
14	1	53.200	9.000000	---	---	48.000
15	2	71.800	9.000000	1079.000	---	692.000
16	2	66.300	9.000000	1893.000	---	503.000
17	2	51.200	9.000000	1362.000	---	455.000

Detailed Results for Radar Type 5_Trial 28

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	53.400	13.000000	1343.000	1742.000	651.000
2	1	57.300	13.000000	---	---	857.000
3	1	61.900	13.000000	---	---	567.000
4	3	60.500	13.000000	1355.000	1499.000	847.000
5	1	62.000	13.000000	---	---	1014.000
6	2	94.800	13.000000	1584.000	---	512.000
7	1	64.300	13.000000	---	---	992.000
8	3	93.200	13.000000	1157.000	1861.000	285.000
9	3	56.000	13.000000	1813.000	1900.000	1189.000
10	2	79.100	13.000000	1234.000	---	1006.000

Detailed Results for Radar Type 5_Trial 29

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	56.900	7.000000	1444.000	967.000	453.000
2	3	59.600	7.000000	1787.000	1144.000	206.000
3	3	95.100	7.000000	1708.000	1109.000	579.000
4	1	90.100	7.000000	---	---	554.000
5	1	81.600	7.000000	---	---	140.000
6	2	78.100	7.000000	1096.000	---	407.000
7	1	99.000	7.000000	---	---	350.000
8	3	81.300	7.000000	1461.000	1547.000	552.000
9	2	54.900	7.000000	1737.000	---	501.000
10	2	54.200	7.000000	1388.000	---	121.000
11	2	86.200	7.000000	971.000	---	397.000
12	2	79.100	7.000000	1117.000	---	318.000
13	2	55.200	7.000000	1399.000	---	427.000
14	1	57.800	7.000000	---	---	441.000
15	2	56.500	7.000000	1323.000	---	397.000
16	1	57.200	7.000000	---	---	435.000
17	2	71.400	7.000000	989.000	---	500.000
18	2	75.000	7.000000	1489.000	---	16.000
19	1	94.000	7.000000	---	---	44.000
20	3	72.700	7.000000	1153.000	1688.000	262.000

Detailed Results for Radar Type 5_Trial 30

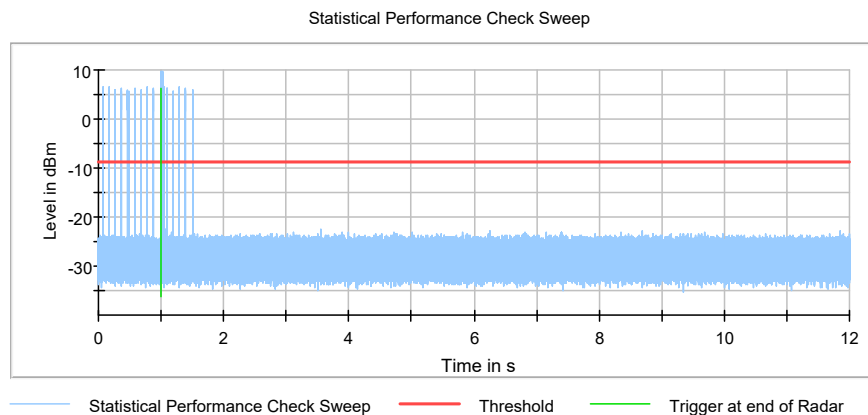
Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	1	93.100	11.000000	---	---	422.000
2	3	61.300	11.000000	1194.000	1086.000	738.000
3	3	57.000	11.000000	1918.000	1102.000	523.000
4	3	91.800	11.000000	1588.000	1798.000	874.000
5	3	88.600	11.000000	1491.000	1061.000	748.000
6	3	62.400	11.000000	1019.000	1144.000	525.000
7	3	88.000	11.000000	1259.000	1713.000	641.000
8	2	77.700	11.000000	1025.000	---	383.000
9	1	51.800	11.000000	---	---	554.000
10	1	55.900	11.000000	---	---	939.000
11	3	63.700	11.000000	1503.000	1789.000	182.000

Detailed Results for Radar Type 6

Trial Number	Pulse Width (μs)	PRI (μs)	No. of Pulses	Pulses Detected	Comment
1	1.000	300.000	9	YES	
2	1.000	300.000	9	YES	
3	1.000	300.000	9	YES	
4	1.000	300.000	9	YES	
5	1.000	300.000	9	YES	
6	1.000	300.000	9	YES	
7	1.000	300.000	9	YES	
8	1.000	300.000	9	YES	
9	1.000	300.000	9	YES	
10	1.000	300.000	9	YES	
11	1.000	300.000	9	YES	
12	1.000	300.000	9	YES	
13	1.000	300.000	9	YES	
14	1.000	300.000	9	YES	
15	1.000	300.000	9	YES	
16	1.000	300.000	9	YES	
17	1.000	300.000	9	YES	
18	1.000	300.000	9	YES	
19	1.000	300.000	9	YES	
20	1.000	300.000	9	YES	
21	1.000	300.000	9	YES	
22	1.000	300.000	9	YES	
23	1.000	300.000	9	YES	
24	1.000	300.000	9	YES	
25	1.000	300.000	9	YES	
26	1.000	300.000	9	YES	
27	1.000	300.000	9	YES	
28	1.000	300.000	9	YES	
29	1.000	300.000	9	YES	
30	1.000	300.000	9	YES	

Radar level verification

Description / Formula	Value	Unit
IF(({DFS Mode(0/1/2)}=0)or({DFS Mode(0/1/2)}=1) , IF((dBm2W({Nominal Power[dBm]}>0.2) , -64 , IF(({Configured PSD[dBm]}<10) , -62 , -64))+ {Attenuation Vector Generator to DUT[dB]} , -50+ {Attenuation Vector Generator to COMP[dB]}))+	Given setting / formula to calculate Vector Generator level	--
Configured DUT EIRP:	63.10	mW
Configured DUT PSD:	7.21	dBm/MHz
Requirement of the Detection threshold value for this given values acc. to FCC clause 5.2 / Table 3	-62	dBm
Vector Generator level setting	-5.30	dBm
Configured overall pathloss from Vector Generator RF out to DUT connector of 'DUT to OSP'-cable	55.70	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	-61.00	dBm



Statistical Performance Check Sweep 1_01

Settings for Radar Type 1 to 4

Setting	Instrument Value	Target Value
Center Frequency	5.32000 GHz	5.32000 GHz
Span	Zero Span	Zero Span
RBW	3.000 MHz	≥ 3.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
Sweep Points	30001	~ 30001
Sweep time	12.000 s	12.000 s
Reference Level	-5.000 dBm	AUTO
Attenuation	0.000 dB	0.000 dB
Detector	Max Peak	Max Peak
Sweep Count	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweep type	Sweep	AUTO
Preamplifier	off	off
Trigger	External	External
Trigger Offset	1.000 s	1.000 s

Settings for Long Pulse Radar Type 5

Setting	Instrument Value	Target Value
Center Frequency	5.32000 GHz	5.32000 GHz
Span	Zero Span	Zero Span
RBW	3.000 MHz	≥ 3.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
Sweep Points	30001	~ 30001
Sweep time	36.000 s	36.000 s
Reference Level	-5.000 dBm	AUTO
Attenuation	0.000 dB	0.000 dB
Detector	Max Peak	Max Peak
Sweep Count	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweep type	Sweep	AUTO
Preamplifier	off	off
Trigger	External	External
Trigger Offset	1.000 s	1.000 s

Settings for Freq. Hopping Radar Type 6

Setting	Instrument Value	Target Value
Center Frequency	5.32000 GHz	5.32000 GHz
Span	Zero Span	Zero Span
RBW	3.000 MHz	≥ 3.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
Sweep Points	30001	~ 30001
Sweep time	12.000 s	12.000 s
Reference Level	-5.000 dBm	AUTO
Attenuation	0.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweep type	Sweep	AUTO
Preamplifier	off	off
Trigger	External	External
Trigger Offset	1.000 s	1.000 s

OSP Video Detector

Setting	Instrument Value	Target Value
Measurement Time	12.000 s	12.000 s
Sample rate	2500 kHz	2500 kHz
Tracepoints	30000000	30000000
Time resolution	4.000 μ s	4.000 μ s
Detector	Peak	Peak

18.6. DFS Statistical Performance Check (5310 MHz; 18.000 dBm; 40 MHz)

Test according to FCC title 47 part 15 §15.407(h), KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1%

Measurement Summary

DUT Frequency (MHz)	Radar Type No.	Detection count	Percentage of Detection Px	Detection Limit	Overall Result	Overall Comment
5310.000000	1	28 of 30	93.33%	60.0 %	PASS	
5310.000000	2	30 of 30	100.00%	60.0 %	PASS	
5310.000000	3	30 of 30	100.00%	60.0 %	PASS	
5310.000000	4	30 of 30	100.00%	60.0 %	PASS	
5310.000000	5	28 of 30	93.33%	60.0 %	PASS	
5310.000000	6	30 of 30	100.00%	60.0 %	PASS	

Aggregate Results for Short Pulse Radar Type 1-4

Aggregate Calculation as follows	Aggregate Percentage	Aggregate Limit	Aggregate Result
$(P1 + P2 + P3 + P4) / 4$	---	---	---

(continuation of the "Aggregate Results for Short Pulse Radar Type 1-4" table from column 4 ...)

Aggregate Calculation as follows	Aggregate Comment
$(P1 + P2 + P3 + P4) / 4$	not calculated because of not all radar waveform types 1 to 4 are measured

Detailed Results for Radar Type 1

Trial Number	Random Trial used	Pulse Width (μs)	PRI (μs)	No. of Pulses	Pulses Detected	Comment
1	35	1.000	1596.000	34	YES	
2	24	1.000	522.000	102	YES	
3	27	1.000	815.000	65	YES	
4	2	1.000	538.000	99	YES	
5	12	1.000	738.000	72	YES	
6	37	1.000	1791.000	30	YES	
7	44	1.000	2474.000	22	YES	
8	43	1.000	2376.000	23	YES	
9	4	1.000	578.000	92	YES	
10	13	1.000	758.000	70	YES	
11	41	1.000	2181.000	25	YES	
12	31	1.000	1205.000	44	YES	
13	9	1.000	678.000	78	YES	
14	18	1.000	858.000	62	YES	
15	10	1.000	698.000	76	YES	
16	20	1.000	898.000	59	YES	
17	3	1.000	558.000	95	YES	
18	26	1.000	717.000	74	No	
19	8	1.000	658.000	81	YES	
20	1	1.000	518.000	102	YES	
21	36	1.000	1693.000	32	YES	
22	33	1.000	1400.000	38	YES	
23	23	1.000	3066.000	18	YES	
24	47	1.000	2767.000	20	YES	
25	38	1.000	1888.000	28	YES	
26	11	1.000	718.000	74	No	
27	17	1.000	838.000	63	YES	
28	49	1.000	2962.000	18	YES	
29	16	1.000	818.000	65	YES	
30	7	1.000	638.000	83	YES	

Detailed Results for Radar Type 2

Trial Number	Random Trial used	Pulse Width (μs)	PRI (μs)	No. of Pulses	Pulses Detected	Comment
1	1	3.400	168.000	25	YES	
2	38	2.000	180.000	25	YES	
3	46	3.000	191.000	28	YES	
4	43	4.100	153.000	24	YES	
5	7	1.400	185.000	27	YES	
6	11	1.700	224.000	23	YES	
7	19	2.000	200.000	25	YES	
8	37	3.400	191.000	24	YES	
9	26	3.700	217.000	28	YES	
10	8	2.600	175.000	26	YES	
11	3	5.000	192.000	23	YES	
12	24	4.400	188.000	27	YES	
13	25	4.400	202.000	24	YES	
14	33	2.100	228.000	28	YES	
15	22	2.400	209.000	26	YES	
16	42	2.500	215.000	28	YES	
17	21	3.600	193.000	28	YES	
18	18	2.000	153.000	24	YES	
19	23	3.800	187.000	28	YES	
20	12	3.100	182.000	28	YES	
21	40	3.600	230.000	27	YES	
22	20	1.200	185.000	25	YES	
23	15	2.200	180.000	29	YES	
24	31	4.000	154.000	28	YES	
25	50	4.100	158.000	25	YES	
26	48	4.200	227.000	24	YES	
27	10	1.200	175.000	26	YES	
28	13	2.200	193.000	24	YES	
29	14	4.800	175.000	24	YES	
30	36	3.200	200.000	28	YES	

Detailed Results for Radar Type 3

Trial Number	Random Trial used	Pulse Width (μs)	PRI (μs)	No. of Pulses	Pulses Detected	Comment
1	2	7.500	211.000	17	YES	
2	4	8.300	462.000	17	YES	
3	13	8.400	343.000	17	YES	
4	7	6.500	466.000	17	YES	
5	47	9.800	250.000	17	YES	
6	15	8.100	436.000	17	YES	
7	22	6.500	433.000	17	YES	
8	27	6.600	301.000	17	YES	
9	9	6.300	454.000	17	YES	
10	42	8.600	493.000	17	YES	
11	45	6.700	426.000	17	YES	
12	36	9.800	494.000	17	YES	
13	11	9.000	500.000	16	YES	
14	23	9.700	256.000	16	YES	
15	37	7.500	217.000	17	YES	
16	33	9.000	430.000	18	YES	
17	19	9.600	336.000	18	YES	
18	31	8.800	487.000	17	YES	
19	24	6.000	378.000	17	YES	
20	21	8.100	204.000	17	YES	
21	5	8.200	464.000	18	YES	
22	26	9.200	497.000	17	YES	
23	35	7.300	200.000	18	YES	
24	8	7.000	358.000	17	YES	
25	32	8.700	356.000	18	YES	
26	39	7.200	358.000	18	YES	
27	46	8.500	349.000	17	YES	
28	41	7.700	467.000	16	YES	
29	28	9.800	316.000	17	YES	
30	30	8.400	309.000	17	YES	

Detailed Results for Radar Type 4

Trial Number	Random Trial used	Pulse Width (μs)	PRI (μs)	No. of Pulses	Pulses Detected	Comment
1	31	14.400	266.000	14	YES	
2	20	12.300	438.000	13	YES	
3	6	18.500	499.000	13	YES	
4	19	15.700	403.000	16	YES	
5	9	13.300	254.000	14	YES	
6	42	18.500	208.000	14	YES	
7	35	12.600	268.000	13	YES	
8	14	16.600	212.000	16	YES	
9	1	15.900	410.000	13	YES	
10	47	17.700	416.000	12	YES	
11	16	19.900	366.000	14	YES	
12	50	14.400	286.000	12	YES	
13	15	14.700	324.000	13	YES	
14	49	11.100	396.000	13	YES	
15	29	17.300	287.000	16	YES	
16	28	13.000	309.000	14	YES	
17	48	14.500	433.000	12	YES	
18	11	14.900	223.000	12	YES	
19	24	18.100	397.000	14	YES	
20	8	14.100	283.000	15	YES	
21	25	16.600	282.000	16	YES	
22	4	12.600	360.000	14	YES	
23	7	18.600	236.000	12	YES	
24	40	13.600	237.000	15	YES	
25	41	13.300	439.000	14	YES	
26	3	13.600	398.000	15	YES	
27	23	18.300	265.000	14	YES	
28	10	14.200	351.000	12	YES	
29	17	17.100	308.000	15	YES	
30	37	18.100	200.000	15	YES	

Detailed Results for Radar Type 5

Trial Number	Random Trial used	Pulses Detected	Comment
1	29	No	For detailed burst Data see separate table Type5_Trial1
2	9	YES	For detailed burst Data see separate table Type5_Trial2
3	40	YES	For detailed burst Data see separate table Type5_Trial3
4	24	YES	For detailed burst Data see separate table Type5_Trial4
5	26	YES	For detailed burst Data see separate table Type5_Trial5
6	47	YES	For detailed burst Data see separate table Type5_Trial6
7	41	No	For detailed burst Data see separate table Type5_Trial7
8	45	YES	For detailed burst Data see separate table Type5_Trial8
9	17	YES	For detailed burst Data see separate table Type5_Trial9
10	15	YES	For detailed burst Data see separate table Type5_Trial10
11	11	YES	For detailed burst Data see separate table Type5_Trial11
12	13	YES	For detailed burst Data see separate table Type5_Trial12
13	14	YES	For detailed burst Data see separate table Type5_Trial13
14	7	YES	For detailed burst Data see separate table Type5_Trial14
15	50	YES	For detailed burst Data see separate table Type5_Trial15
16	36	YES	For detailed burst Data see separate table Type5_Trial16
17	16	YES	For detailed burst Data see separate table Type5_Trial17
18	27	YES	For detailed burst Data see separate table Type5_Trial18
19	49	YES	For detailed burst Data see separate table Type5_Trial19
20	6	YES	For detailed burst Data see separate table Type5_Trial20
21	48	YES	For detailed burst Data see separate table Type5_Trial21
22	18	YES	For detailed burst Data see separate table Type5_Trial22
23	20	YES	For detailed burst Data see separate table Type5_Trial23
24	8	YES	For detailed burst Data see separate table Type5_Trial24
25	10	YES	For detailed burst Data see separate table Type5_Trial25
26	3	YES	For detailed burst Data see separate table Type5_Trial26
27	34	YES	For detailed burst Data see separate table Type5_Trial27
28	35	YES	For detailed burst Data see separate table Type5_Trial28
29	21	YES	For detailed burst Data see separate table Type5_Trial29
30	25	YES	For detailed burst Data see separate table Type5_Trial30

Detailed Results for Radar Type 5_Trial 1

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	77.400	20.000000	1666.000	---	613.000
2	3	99.600	20.000000	1128.000	1195.000	1083.000
3	3	95.100	20.000000	1506.000	1563.000	362.000
4	1	84.300	20.000000	---	---	319.000
5	3	88.900	20.000000	1568.000	1152.000	604.000
6	2	69.200	20.000000	995.000	---	451.000
7	2	81.400	20.000000	1689.000	---	791.000
8	2	88.500	20.000000	1286.000	---	359.000
9	3	70.600	20.000000	1189.000	1825.000	241.000
10	3	56.000	20.000000	1217.000	1783.000	317.000

Detailed Results for Radar Type 5_Trial 2

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	70.500	17.000000	956.000	---	247.000
2	3	85.800	17.000000	1726.000	1051.000	659.000
3	2	67.600	17.000000	1910.000	---	383.000
4	2	97.900	17.000000	1794.000	---	123.000
5	3	55.000	17.000000	1798.000	1000.000	48.000
6	2	55.900	17.000000	1322.000	---	464.000
7	3	53.400	17.000000	1270.000	1431.000	347.000
8	2	88.300	17.000000	1417.000	---	544.000
9	2	95.600	17.000000	1228.000	---	453.000
10	2	70.400	17.000000	1039.000	---	291.000
11	2	53.000	17.000000	1860.000	---	689.000
12	1	80.600	17.000000	---	---	628.000
13	3	67.000	17.000000	1382.000	1724.000	487.000
14	2	67.300	17.000000	1895.000	---	682.000
15	2	63.100	17.000000	1171.000	---	343.000
16	2	79.400	17.000000	1369.000	---	186.000

Detailed Results for Radar Type 5_Trial 3

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	57.400	6.000000	963.000	---	180.000
2	2	93.600	6.000000	1584.000	---	459.000
3	2	80.100	6.000000	1493.000	---	435.000
4	1	64.100	6.000000	---	---	1256.000
5	2	67.700	6.000000	1215.000	---	734.000
6	1	96.500	6.000000	---	---	1281.000
7	2	81.500	6.000000	974.000	---	1432.000
8	2	66.800	6.000000	1558.000	---	92.000

Detailed Results for Radar Type 5_Trial 4

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	78.300	8.000000	1113.000	---	442.000
2	3	73.800	8.000000	1354.000	1837.000	373.000
3	3	76.100	8.000000	1355.000	1639.000	48.000
4	3	87.300	8.000000	1498.000	1822.000	357.000
5	1	50.900	8.000000	---	---	161.000
6	2	69.700	8.000000	1619.000	---	132.000
7	3	76.000	8.000000	1288.000	1532.000	644.000
8	2	60.600	8.000000	1300.000	---	48.000
9	1	98.100	8.000000	---	---	403.000
10	2	52.200	8.000000	1422.000	---	506.000
11	2	98.400	8.000000	1351.000	---	22.000
12	2	87.700	8.000000	1180.000	---	634.000
13	3	82.400	8.000000	1704.000	1848.000	28.000
14	3	68.900	8.000000	1080.000	1341.000	12.000
15	2	71.600	8.000000	1681.000	---	577.000
16	3	93.100	8.000000	1758.000	1536.000	609.000
17	2	52.100	8.000000	1941.000	---	612.000
18	2	89.200	8.000000	966.000	---	60.000

Detailed Results for Radar Type 5_Trial 5

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	56.900	7.000000	1444.000	967.000	453.000
2	3	59.600	7.000000	1787.000	1144.000	206.000
3	3	95.100	7.000000	1708.000	1109.000	579.000
4	1	90.100	7.000000	---	---	554.000
5	1	81.600	7.000000	---	---	140.000
6	2	78.100	7.000000	1096.000	---	407.000
7	1	99.000	7.000000	---	---	350.000
8	3	81.300	7.000000	1461.000	1547.000	552.000
9	2	54.900	7.000000	1737.000	---	501.000
10	2	54.200	7.000000	1388.000	---	121.000
11	2	86.200	7.000000	971.000	---	397.000
12	2	79.100	7.000000	1117.000	---	318.000
13	2	55.200	7.000000	1399.000	---	427.000
14	1	57.800	7.000000	---	---	441.000
15	2	56.500	7.000000	1323.000	---	397.000
16	1	57.200	7.000000	---	---	435.000
17	2	71.400	7.000000	989.000	---	500.000
18	2	75.000	7.000000	1489.000	---	16.000
19	1	94.000	7.000000	---	---	44.000
20	3	72.700	7.000000	1153.000	1688.000	262.000

Detailed Results for Radar Type 5_Trial 6

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	53.000	16.000000	1731.000	1776.000	102.000
2	2	61.000	16.000000	988.000	---	570.000
3	1	59.900	16.000000	---	---	566.000
4	1	85.500	16.000000	---	---	213.000
5	3	94.800	16.000000	1100.000	1674.000	103.000
6	3	81.600	16.000000	979.000	1275.000	44.000
7	1	57.300	16.000000	---	---	498.000
8	2	93.800	16.000000	999.000	---	772.000
9	2	75.100	16.000000	1593.000	---	686.000
10	3	96.400	16.000000	1515.000	1372.000	320.000
11	2	59.600	16.000000	1224.000	---	9.000
12	2	69.600	16.000000	1553.000	---	192.000
13	1	84.300	16.000000	---	---	102.000
14	3	70.600	16.000000	1234.000	961.000	644.000
15	1	97.700	16.000000	---	---	436.000

Detailed Results for Radar Type 5_Trial 7

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	69.200	20.000000	1589.000	---	608.000
2	2	96.300	20.000000	1096.000	---	1107.000
3	2	65.100	20.000000	973.000	---	1251.000
4	3	82.700	20.000000	1229.000	1116.000	442.000
5	1	86.700	20.000000	---	---	528.000
6	1	50.500	20.000000	---	---	261.000
7	2	74.700	20.000000	1296.000	---	317.000
8	1	58.000	20.000000	---	---	131.000
9	3	82.600	20.000000	1463.000	985.000	1132.000

Detailed Results for Radar Type 5_Trial 8

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	52.400	9.000000	974.000	---	609.000
2	2	55.800	9.000000	1319.000	---	738.000
3	2	58.000	9.000000	1056.000	---	899.000
4	2	50.700	9.000000	975.000	---	575.000
5	1	54.600	9.000000	---	---	73.000
6	2	82.900	9.000000	1205.000	---	107.000
7	2	51.100	9.000000	991.000	---	451.000
8	2	94.700	9.000000	1862.000	---	331.000
9	2	65.500	9.000000	1034.000	---	871.000
10	2	62.000	9.000000	1226.000	---	12.000
11	3	65.600	9.000000	1015.000	1040.000	157.000
12	2	54.800	9.000000	1350.000	---	641.000
13	2	68.900	9.000000	1496.000	---	791.000

Detailed Results for Radar Type 5_Trial 9

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	1	93.100	11.000000	---	---	422.000
2	3	61.300	11.000000	1194.000	1086.000	738.000
3	3	57.000	11.000000	1918.000	1102.000	523.000
4	3	91.800	11.000000	1588.000	1798.000	874.000
5	3	88.600	11.000000	1491.000	1061.000	748.000
6	3	62.400	11.000000	1019.000	1144.000	525.000
7	3	88.000	11.000000	1259.000	1713.000	641.000
8	2	77.700	11.000000	1025.000	---	383.000
9	1	51.800	11.000000	---	---	554.000
10	1	55.900	11.000000	---	---	939.000
11	3	63.700	11.000000	1503.000	1789.000	182.000

Detailed Results for Radar Type 5_Trial 10

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	50.800	18.000000	1595.000	---	21.000
2	2	52.000	18.000000	1563.000	---	729.000
3	2	58.800	18.000000	1384.000	---	15.000
4	2	79.700	18.000000	979.000	---	261.000
5	1	69.500	18.000000	---	---	533.000
6	2	98.900	18.000000	1015.000	---	493.000
7	2	82.800	18.000000	1634.000	---	218.000
8	1	70.100	18.000000	---	---	1102.000
9	2	89.200	18.000000	1357.000	---	524.000

Detailed Results for Radar Type 5_Trial 11

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	61.700	11.000000	1264.000	1572.000	640.000
2	3	82.600	11.000000	923.000	1387.000	439.000
3	2	74.800	11.000000	1230.000	---	16.000
4	2	77.700	11.000000	1544.000	---	613.000
5	1	80.400	11.000000	---	---	213.000
6	3	88.700	11.000000	1316.000	1461.000	568.000
7	3	78.100	11.000000	1065.000	1167.000	387.000
8	2	56.600	11.000000	1454.000	---	647.000
9	1	63.600	11.000000	---	---	285.000
10	2	73.100	11.000000	1369.000	---	189.000
11	2	67.900	11.000000	994.000	---	165.000
12	2	76.500	11.000000	1164.000	---	480.000
13	1	63.700	11.000000	---	---	28.000
14	2	70.100	11.000000	1823.000	---	516.000
15	2	90.400	11.000000	1694.000	---	561.000
16	2	87.700	11.000000	1528.000	---	420.000
17	3	77.700	11.000000	1339.000	1407.000	61.000
18	1	81.300	11.000000	---	---	67.000

Detailed Results for Radar Type 5_Trial 12

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	1	51.100	19.000000	---	---	551.000
2	2	85.100	19.000000	1734.000	---	404.000
3	3	52.100	19.000000	1720.000	1874.000	512.000
4	1	74.000	19.000000	---	---	40.000
5	2	52.100	19.000000	1849.000	---	96.000
6	2	76.700	19.000000	1657.000	---	349.000
7	1	55.400	19.000000	---	---	91.000
8	3	81.200	19.000000	1796.000	1552.000	89.000
9	2	60.900	19.000000	1713.000	---	57.000
10	2	57.100	19.000000	1611.000	---	530.000
11	2	50.100	19.000000	1364.000	---	248.000
12	1	89.400	19.000000	---	---	296.000
13	3	64.500	19.000000	1437.000	1500.000	469.000
14	2	72.500	19.000000	1415.000	---	437.000
15	3	72.200	19.000000	1705.000	1577.000	554.000
16	2	87.800	19.000000	1175.000	---	48.000
17	2	91.300	19.000000	1613.000	---	537.000
18	2	65.400	19.000000	1307.000	---	194.000
19	1	56.300	19.000000	---	---	276.000
20	2	68.900	19.000000	1611.000	---	430.000

Detailed Results for Radar Type 5_Trial 13

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	86.900	18.000000	1072.000	1743.000	270.000
2	3	81.200	18.000000	1473.000	1232.000	993.000
3	3	100.000	18.000000	1838.000	1883.000	1083.000
4	1	65.400	18.000000	---	---	815.000
5	3	80.200	18.000000	1355.000	1538.000	799.000
6	3	96.500	18.000000	1759.000	1784.000	72.000
7	3	80.300	18.000000	1386.000	1646.000	426.000
8	2	81.600	18.000000	1787.000	---	878.000

Detailed Results for Radar Type 5_Trial 14

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	76.300	6.000000	1673.000	1870.000	757.000
2	1	85.600	6.000000	---	---	712.000
3	2	87.400	6.000000	1495.000	---	427.000
4	2	67.800	6.000000	1430.000	---	153.000
5	1	80.900	6.000000	---	---	197.000
6	1	80.300	6.000000	---	---	160.000
7	3	86.500	6.000000	1329.000	1212.000	509.000
8	1	96.300	6.000000	---	---	828.000
9	1	80.800	6.000000	---	---	306.000
10	2	74.900	6.000000	1636.000	---	609.000
11	3	60.400	6.000000	1278.000	1394.000	269.000
12	3	57.300	6.000000	1719.000	999.000	826.000
13	2	64.800	6.000000	1378.000	---	41.000
14	2	66.600	6.000000	933.000	---	631.000

Detailed Results for Radar Type 5_Trial 15

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	63.100	5.000000	1767.000	---	49.000
2	2	54.000	5.000000	1907.000	---	76.000
3	1	74.000	5.000000	---	---	573.000
4	3	69.500	5.000000	1490.000	1185.000	440.000
5	2	62.300	5.000000	1013.000	---	645.000
6	2	52.800	5.000000	1682.000	---	178.000
7	2	90.100	5.000000	1367.000	---	171.000
8	1	86.200	5.000000	---	---	251.000
9	2	94.800	5.000000	908.000	---	307.000
10	2	66.500	5.000000	972.000	---	415.000
11	3	60.800	5.000000	1555.000	1769.000	440.000
12	2	69.200	5.000000	1364.000	---	408.000
13	2	82.600	5.000000	1077.000	---	86.000
14	3	89.600	5.000000	934.000	1096.000	215.000
15	2	87.700	5.000000	958.000	---	272.000
16	2	74.300	5.000000	1246.000	---	576.000
17	1	98.600	5.000000	---	---	262.000
18	3	82.600	5.000000	1172.000	1322.000	628.000

Detailed Results for Radar Type 5_Trial 16

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	74.800	8.000000	1894.000	---	41.000
2	2	95.100	8.000000	1815.000	---	443.000
3	1	95.500	8.000000	---	---	663.000
4	2	87.500	8.000000	1259.000	---	156.000
5	3	86.300	8.000000	947.000	1761.000	185.000
6	1	90.900	8.000000	---	---	246.000
7	2	51.800	8.000000	1879.000	---	166.000
8	1	92.100	8.000000	---	---	203.000
9	3	83.800	8.000000	1477.000	1851.000	570.000
10	1	51.500	8.000000	---	---	48.000
11	1	60.400	8.000000	---	---	1.000
12	3	95.800	8.000000	934.000	1424.000	382.000
13	2	79.200	8.000000	1808.000	---	537.000
14	3	79.500	8.000000	1300.000	1192.000	323.000
15	1	83.200	8.000000	---	---	343.000
16	2	98.800	8.000000	1791.000	---	560.000
17	2	50.800	8.000000	1866.000	---	659.000

Detailed Results for Radar Type 5_Trial 17

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	53.400	13.000000	1343.000	1742.000	651.000
2	1	57.300	13.000000	---	---	857.000
3	1	61.900	13.000000	---	---	567.000
4	3	60.500	13.000000	1355.000	1499.000	847.000
5	1	62.000	13.000000	---	---	1014.000
6	2	94.800	13.000000	1584.000	---	512.000
7	1	64.300	13.000000	---	---	992.000
8	3	93.200	13.000000	1157.000	1861.000	285.000
9	3	56.000	13.000000	1813.000	1900.000	1189.000
10	2	79.100	13.000000	1234.000	---	1006.000

Detailed Results for Radar Type 5_Trial 18

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	55.900	14.000000	1883.000	---	1025.000
2	2	64.100	14.000000	1710.000	---	849.000
3	2	77.200	14.000000	1650.000	---	136.000
4	2	96.600	14.000000	1520.000	---	468.000
5	2	98.000	14.000000	923.000	---	376.000
6	2	66.700	14.000000	1462.000	---	705.000
7	3	66.400	14.000000	1003.000	1192.000	1416.000
8	2	57.000	14.000000	1038.000	---	240.000

Detailed Results for Radar Type 5_Trial 19

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	69.400	19.000000	1872.000	---	221.000
2	2	59.100	19.000000	1839.000	---	120.000
3	3	76.800	19.000000	1911.000	981.000	550.000
4	2	70.500	19.000000	1328.000	---	331.000
5	1	63.100	19.000000	---	---	681.000
6	3	59.900	19.000000	1048.000	1055.000	264.000
7	2	50.000	19.000000	1246.000	---	301.000
8	2	53.200	19.000000	993.000	---	222.000
9	1	80.500	19.000000	---	---	496.000
10	2	86.900	19.000000	1135.000	---	371.000
11	3	99.000	19.000000	1818.000	935.000	639.000
12	3	85.200	19.000000	1495.000	1079.000	633.000
13	3	68.700	19.000000	1289.000	1482.000	99.000
14	2	85.700	19.000000	1340.000	---	358.000
15	2	82.900	19.000000	1395.000	---	502.000
16	2	53.400	19.000000	1111.000	---	74.000
17	2	97.400	19.000000	1764.000	---	476.000

Detailed Results for Radar Type 5_Trial 20

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	1	85.200	14.000000	---	---	99.000
2	3	59.000	14.000000	1887.000	1086.000	687.000
3	1	51.000	14.000000	---	---	381.000
4	2	84.800	14.000000	1906.000	---	520.000
5	3	83.200	14.000000	1466.000	1170.000	910.000
6	3	92.300	14.000000	977.000	1255.000	1.000
7	2	59.400	14.000000	1674.000	---	732.000
8	2	90.700	14.000000	1058.000	---	642.000
9	3	93.100	14.000000	961.000	934.000	359.000
10	3	74.900	14.000000	1673.000	1639.000	602.000
11	2	90.800	14.000000	1227.000	---	430.000
12	3	58.500	14.000000	1625.000	1374.000	10.000
13	1	57.700	14.000000	---	---	804.000

Detailed Results for Radar Type 5_Trial 21

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	97.900	7.000000	1124.000	---	368.000
2	2	94.200	7.000000	1097.000	---	363.000
3	2	95.600	7.000000	1706.000	---	338.000
4	3	60.700	7.000000	1726.000	1788.000	628.000
5	2	79.600	7.000000	921.000	---	352.000
6	2	55.700	7.000000	1463.000	---	71.000
7	2	92.300	7.000000	1486.000	---	208.000
8	3	59.600	7.000000	1550.000	1830.000	605.000
9	2	95.900	7.000000	1529.000	---	727.000
10	2	87.500	7.000000	1521.000	---	637.000
11	3	81.100	7.000000	961.000	1815.000	593.000
12	3	93.000	7.000000	1246.000	1717.000	400.000
13	3	62.500	7.000000	1219.000	1563.000	742.000
14	1	70.400	7.000000	---	---	627.000
15	2	63.400	7.000000	1345.000	---	439.000
16	1	78.000	7.000000	---	---	663.000

Detailed Results for Radar Type 5_Trial 22

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	1	93.600	5.000000	---	---	12.000
2	3	75.700	5.000000	1082.000	1831.000	391.000
3	1	78.600	5.000000	---	---	945.000
4	3	97.800	5.000000	1410.000	1227.000	166.000
5	2	90.700	5.000000	1124.000	---	67.000
6	2	98.300	5.000000	1313.000	---	512.000
7	3	72.800	5.000000	1011.000	1020.000	645.000
8	3	73.700	5.000000	1726.000	1553.000	442.000
9	1	90.200	5.000000	---	---	22.000
10	1	62.700	5.000000	---	---	746.000
11	3	83.300	5.000000	1501.000	1874.000	837.000
12	3	80.000	5.000000	1591.000	1770.000	458.000

Detailed Results for Radar Type 5_Trial 23

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	69.000	7.000000	1220.000	---	20.000
2	3	88.500	7.000000	1376.000	1096.000	45.000
3	2	56.300	7.000000	1207.000	---	779.000
4	2	88.800	7.000000	1793.000	---	532.000
5	1	78.600	7.000000	---	---	577.000
6	2	82.300	7.000000	1534.000	---	549.000
7	1	71.700	7.000000	---	---	612.000
8	2	52.800	7.000000	1891.000	---	631.000
9	1	66.100	7.000000	---	---	166.000
10	2	72.800	7.000000	1460.000	---	381.000
11	2	82.900	7.000000	1293.000	---	451.000
12	3	72.300	7.000000	1224.000	1577.000	61.000
13	2	91.900	7.000000	1281.000	---	619.000
14	3	82.400	7.000000	1570.000	1469.000	99.000

Detailed Results for Radar Type 5_Trial 24

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	93.000	5.000000	1554.000	1785.000	287.000
2	1	83.900	5.000000	---	---	719.000
3	1	58.600	5.000000	---	---	22.000
4	2	51.600	5.000000	1301.000	---	508.000
5	2	86.000	5.000000	971.000	---	394.000
6	2	52.400	5.000000	1014.000	---	126.000
7	2	81.600	5.000000	1650.000	---	756.000
8	2	73.500	5.000000	1428.000	---	653.000
9	1	58.900	5.000000	---	---	761.000
10	1	93.500	5.000000	---	---	118.000
11	2	90.600	5.000000	1774.000	---	108.000
12	2	58.400	5.000000	1448.000	---	740.000
13	2	89.100	5.000000	1406.000	---	689.000
14	2	73.900	5.000000	1071.000	---	160.000
15	1	61.700	5.000000	---	---	172.000

Detailed Results for Radar Type 5_Trial 25

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	64.900	8.000000	1505.000	942.000	403.000
2	2	74.300	8.000000	1789.000	---	177.000
3	3	70.800	8.000000	1084.000	1077.000	477.000
4	2	89.800	8.000000	1727.000	---	39.000
5	2	93.800	8.000000	1220.000	---	581.000
6	3	71.300	8.000000	1699.000	1079.000	519.000
7	2	73.200	8.000000	1306.000	---	9.000
8	2	78.200	8.000000	1010.000	---	72.000
9	3	65.600	8.000000	1443.000	1201.000	152.000
10	2	80.300	8.000000	1521.000	---	187.000
11	1	53.000	8.000000	---	---	669.000
12	2	97.600	8.000000	1808.000	---	558.000
13	2	69.000	8.000000	1583.000	---	502.000
14	3	98.300	8.000000	1282.000	1548.000	356.000
15	3	58.000	8.000000	1058.000	1448.000	179.000
16	2	53.300	8.000000	993.000	---	253.000
17	2	78.600	8.000000	1265.000	---	413.000

Detailed Results for Radar Type 5_Trial 26

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	54.600	13.000000	1482.000	---	997.000
2	3	58.000	13.000000	1111.000	999.000	712.000
3	3	63.400	13.000000	1268.000	1709.000	269.000
4	3	67.400	13.000000	1035.000	1498.000	377.000
5	3	70.200	13.000000	1122.000	999.000	381.000
6	1	92.500	13.000000	---	---	942.000
7	3	63.900	13.000000	1233.000	1239.000	49.000
8	1	67.700	13.000000	---	---	121.000
9	2	74.700	13.000000	1791.000	---	596.000
10	2	98.000	13.000000	1740.000	---	602.000

Detailed Results for Radar Type 5_Trial 27

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	68.600	13.000000	1614.000	---	278.000
2	3	78.700	13.000000	1230.000	1429.000	455.000
3	2	72.000	13.000000	1581.000	---	173.000
4	2	75.600	13.000000	977.000	---	212.000
5	2	65.500	13.000000	1725.000	---	589.000
6	2	55.000	13.000000	1600.000	---	3.000
7	1	57.000	13.000000	---	---	642.000
8	2	70.100	13.000000	1454.000	---	556.000
9	2	52.700	13.000000	1212.000	---	448.000
10	3	61.200	13.000000	1845.000	1035.000	543.000
11	2	98.000	13.000000	1740.000	---	298.000
12	2	56.300	13.000000	1488.000	---	3.000
13	3	74.200	13.000000	1454.000	1697.000	589.000
14	1	91.600	13.000000	---	---	282.000
15	3	70.600	13.000000	1578.000	1218.000	414.000

Detailed Results for Radar Type 5_Trial 28

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	52.100	18.000000	1215.000	---	17.000
2	3	99.800	18.000000	1736.000	1673.000	148.000
3	2	53.200	18.000000	1233.000	---	12.000
4	1	87.200	18.000000	---	---	540.000
5	2	75.200	18.000000	975.000	---	618.000
6	3	63.600	18.000000	1614.000	1448.000	732.000
7	2	61.200	18.000000	1118.000	---	137.000
8	2	86.400	18.000000	1014.000	---	331.000
9	2	79.400	18.000000	1910.000	---	737.000
10	2	84.300	18.000000	1126.000	---	48.000
11	2	81.500	18.000000	1345.000	---	288.000
12	3	81.300	18.000000	1810.000	952.000	529.000
13	2	94.900	18.000000	1306.000	---	612.000
14	3	69.600	18.000000	1632.000	1730.000	692.000
15	3	73.300	18.000000	1015.000	1552.000	317.000
16	3	93.100	18.000000	1179.000	1533.000	7.000

Detailed Results for Radar Type 5_Trial 29

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	66.400	15.000000	1599.000	1875.000	190.000
2	1	73.600	15.000000	---	---	165.000
3	2	55.200	15.000000	1726.000	---	332.000
4	2	62.700	15.000000	1752.000	---	117.000
5	3	50.600	15.000000	1523.000	1052.000	572.000
6	2	57.800	15.000000	944.000	---	746.000
7	3	98.000	15.000000	1343.000	1215.000	147.000
8	2	82.800	15.000000	1182.000	---	30.000
9	2	62.900	15.000000	1549.000	---	395.000
10	2	50.700	15.000000	1196.000	---	333.000
11	3	69.200	15.000000	1106.000	1036.000	388.000
12	3	60.900	15.000000	1175.000	1183.000	612.000
13	2	78.500	15.000000	1908.000	---	125.000
14	2	67.800	15.000000	1667.000	---	502.000
15	2	58.000	15.000000	1869.000	---	224.000

Detailed Results for Radar Type 5 Trial 30

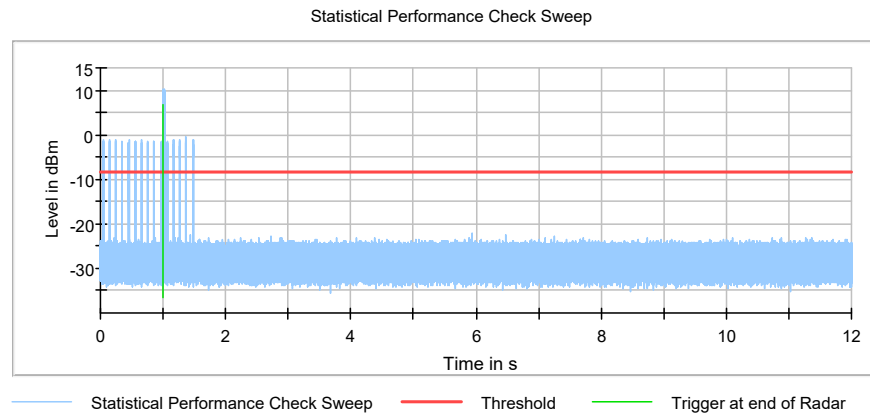
Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	97.100	19.000000	1539.000	---	378.000
2	2	62.500	19.000000	1931.000	---	586.000
3	3	85.200	19.000000	1860.000	942.000	473.000
4	2	57.800	19.000000	1401.000	---	394.000
5	1	72.100	19.000000	---	---	254.000
6	1	92.700	19.000000	---	---	242.000
7	2	56.200	19.000000	1405.000	---	411.000
8	3	54.300	19.000000	1382.000	1712.000	591.000
9	3	88.200	19.000000	1026.000	1680.000	17.000
10	3	68.200	19.000000	1051.000	1804.000	269.000
11	2	91.600	19.000000	1080.000	---	315.000
12	2	94.700	19.000000	1056.000	---	501.000
13	2	60.900	19.000000	1566.000	---	227.000
14	2	57.700	19.000000	1345.000	---	332.000
15	2	80.500	19.000000	1002.000	---	131.000
16	1	78.700	19.000000	---	---	51.000
17	2	95.800	19.000000	1851.000	---	346.000
18	3	74.500	19.000000	1430.000	1097.000	108.000
19	3	65.700	19.000000	1155.000	1430.000	508.000

Detailed Results for Radar Type 6

Trial Number	Pulse Width (μs)	PRI (μs)	No. of Pulses	Pulses Detected	Comment
1	1.000	300.000	9	YES	
2	1.000	300.000	9	YES	
3	1.000	300.000	9	YES	
4	1.000	300.000	9	YES	
5	1.000	300.000	9	YES	
6	1.000	300.000	9	YES	
7	1.000	300.000	9	YES	
8	1.000	300.000	9	YES	
9	1.000	300.000	9	YES	
10	1.000	300.000	9	YES	
11	1.000	300.000	9	YES	
12	1.000	300.000	9	YES	
13	1.000	300.000	9	YES	
14	1.000	300.000	9	YES	
15	1.000	300.000	9	YES	
16	1.000	300.000	9	YES	
17	1.000	300.000	9	YES	
18	1.000	300.000	9	YES	
19	1.000	300.000	9	YES	
20	1.000	300.000	9	YES	
21	1.000	300.000	9	YES	
22	1.000	300.000	9	YES	
23	1.000	300.000	9	YES	
24	1.000	300.000	9	YES	
25	1.000	300.000	9	YES	
26	1.000	300.000	9	YES	
27	1.000	300.000	9	YES	
28	1.000	300.000	9	YES	
29	1.000	300.000	9	YES	
30	1.000	300.000	9	YES	

Radar level verification

Description / Formula	Value	Unit
IF(({DFS Mode(0/1/2)}=0)or({DFS Mode(0/1/2)}=1) , IF((dBm2W({Nominal Power[dBm]}>0.2) , -64 , IF(({Configured PSD[dBm]}<10) , -62 , -64))+ {Attenuation Vector Generator to DUT[dB]} , -50+ {Attenuation Vector Generator to COMP[dB]}+ {Radar Signal Level Offset[dB]}))	Given setting / formula to calculate Vector Generator level	--
Configured DUT EIRP:	63.10	mW
Configured DUT PSD:	7.21	dBm/MHz
Requirement of the Detection threshold value for this given values acc. to FCC clause 5.2 / Table 3	-62	dBm
Vector Generator level setting	-5.37	dBm
Configured overall pathloss from Vector Generator RF out to DUT connector of 'DUT to OSP'- cable	55.63	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	-61.00	dBm



Statistical Performance Check Sweep 1_01

Settings for Radar Type 1 to 4

Setting	Instrument Value	Target Value
Center Frequency	5.31000 GHz	5.31000 GHz
Span	Zero Span	Zero Span
RBW	3.000 MHz	>= 3.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
Sweep Points	30001	~ 30001
Sweep time	12.000 s	12.000 s
Reference Level	-5.000 dBm	AUTO
Attenuation	0.000 dB	0.000 dB
Detector	Max Peak	Max Peak
Sweep Count	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweep type	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	1.000 s	1.000 s

Settings for Long Pulse Radar Type 5

Setting	Instrument Value	Target Value
Center Frequency	5.31000 GHz	5.31000 GHz
Span	Zero Span	Zero Span
RBW	3.000 MHz	>= 3.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
Sweep Points	30001	~ 30001
Sweep time	36.000 s	36.000 s
Reference Level	-5.000 dBm	AUTO
Attenuation	0.000 dB	0.000 dB
Detector	Max Peak	Max Peak
Sweep Count	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweep type	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	1.000 s	1.000 s

Settings for Freq. Hopping Radar Type 6

Setting	Instrument Value	Target Value
Center Frequency	5.31000 GHz	5.31000 GHz
Span	Zero Span	Zero Span
RBW	3.000 MHz	>= 3.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
Sweep Points	30001	~ 30001
Sweep time	12.000 s	12.000 s
Reference Level	-5.000 dBm	AUTO
Attenuation	0.000 dB	0.000 dB
Detector	Max Peak	Max Peak
Sweep Count	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweep type	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	1.000 s	1.000 s

OSP Video Detector

Setting	Instrument Value	Target Value
Measurement Time	12.000 s	12.000 s
Samplerate	2500 kHz	2500 kHz
Tracepoints	30000000	30000000
Time resolution	4.000 μ s	4.000 μ s
Detector	Peak	Peak

18.7. DFS Statistical Performance Check (5290 MHz; 18.000 dBm; 80 MHz)

Test according to FCC title 47 part 15 §15.407(h), KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02.

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1%

Measurement Summary

DUT Frequency (MHz)	Radar Type No.	Detection count	Percentage of Detection Px	Detection Limit	Overall Result	Overall Comment
5290.000000	1	29 of 30	96.67%	60.0 %	PASS	
5290.000000	2	30 of 30	100.00%	60.0 %	PASS	
5290.000000	3	30 of 30	100.00%	60.0 %	PASS	

Aggregate Results for Short Pulse Radar Type 1-4

Aggregate Calculation as follows	Aggregate Percentage	Aggregate Limit	Aggregate Result
$(P1 + P2 + P3 + P4) / 4$	---	---	---

(continuation of the "Aggregate Results for Short Pulse Radar Type 1-4" table from column 4 ...)

Aggregate Calculation as follows	Aggregate Comment
$(P1 + P2 + P3 + P4) / 4$	not calculated because of not all radar waveform types 1 to 4 are measured

Detailed Results for Radar Type 1

Trial Number	Random Trial used	Pulse Width (μs)	PRI (μs)	No. of Pulses	Pulses Detected	Comment
1	39	1.000	1986.000	27	No	
2	24	1.000	522.000	102	YES	
3	44	1.000	2474.000	22	YES	
4	7	1.000	638.000	83	YES	
5	46	1.000	2669.000	20	YES	
6	12	1.000	738.000	72	YES	
7	38	1.000	1888.000	28	YES	
8	9	1.000	678.000	78	YES	
9	14	1.000	778.000	68	YES	
10	32	1.000	1303.000	41	YES	
11	49	1.000	2962.000	18	YES	
12	29	1.000	1010.000	53	YES	
13	28	1.000	912.000	58	YES	
14	4	1.000	578.000	92	YES	
15	35	1.000	1596.000	34	YES	
16	23	1.000	3066.000	18	YES	
17	16	1.000	818.000	65	YES	
18	40	1.000	2084.000	26	YES	
19	36	1.000	1693.000	32	YES	
20	42	1.000	2279.000	24	YES	
21	3	1.000	558.000	95	YES	
22	6	1.000	618.000	86	YES	
23	50	1.000	3060.000	18	YES	
24	41	1.000	2181.000	25	YES	
25	13	1.000	758.000	70	YES	
26	8	1.000	658.000	81	YES	
27	20	1.000	898.000	59	YES	
28	34	1.000	1498.000	36	YES	
29	27	1.000	815.000	65	YES	
30	21	1.000	918.000	58	YES	

Detailed Results for Radar Type 2

Trial Number	Random Trial used	Pulse Width (μs)	PRI (μs)	No. of Pulses	Pulses Detected	Comment
1	3	5.000	192.000	23	YES	
2	47	3.400	213.000	27	YES	
3	33	2.100	228.000	28	YES	
4	39	4.900	163.000	23	YES	
5	23	3.800	187.000	28	YES	
6	12	3.100	182.000	28	YES	
7	25	4.400	202.000	24	YES	
8	37	3.400	191.000	24	YES	
9	36	3.200	200.000	28	YES	
10	24	4.400	188.000	27	YES	
11	17	4.500	213.000	23	YES	
12	34	2.200	197.000	28	YES	
13	6	3.700	161.000	26	YES	
14	48	4.200	227.000	24	YES	
15	27	2.700	199.000	29	YES	
16	31	4.000	154.000	28	YES	
17	5	3.500	226.000	26	YES	
18	45	3.200	227.000	29	YES	
19	46	3.000	191.000	28	YES	
20	15	2.200	180.000	29	YES	
21	1	3.400	168.000	25	YES	
22	22	2.400	209.000	26	YES	
23	14	4.800	175.000	24	YES	
24	16	3.600	194.000	26	YES	
25	8	2.600	175.000	26	YES	
26	32	3.700	222.000	26	YES	
27	43	4.100	153.000	24	YES	
28	18	2.000	153.000	24	YES	
29	29	4.100	189.000	26	YES	
30	28	1.700	216.000	27	YES	

Detailed Results for Radar Type 3

Trial Number	Random Trial used	Pulse Width (μs)	PRI (μs)	No. of Pulses	Pulses Detected	Comment
1	12	8.000	463.000	17	YES	
2	7	6.500	466.000	17	YES	
3	39	7.200	358.000	18	YES	
4	15	8.100	436.000	17	YES	
5	22	6.500	433.000	17	YES	
6	31	8.800	487.000	17	YES	
7	48	9.000	448.000	18	YES	
8	40	7.400	271.000	17	YES	
9	11	9.000	500.000	16	YES	
10	33	9.000	430.000	18	YES	
11	41	7.700	467.000	16	YES	
12	5	8.200	464.000	18	YES	
13	13	8.400	343.000	17	YES	
14	19	9.600	336.000	18	YES	
15	50	7.700	206.000	17	YES	
16	17	8.700	413.000	17	YES	
17	10	9.800	206.000	17	YES	
18	25	9.600	458.000	17	YES	
19	46	8.500	349.000	17	YES	
20	2	7.500	211.000	17	YES	
21	3	9.500	297.000	16	YES	
22	20	8.200	272.000	18	YES	
23	42	8.600	493.000	17	YES	
24	1	8.000	494.000	18	YES	
25	35	7.300	200.000	18	YES	
26	38	6.300	476.000	17	YES	
27	14	6.600	455.000	16	YES	
28	28	9.800	316.000	17	YES	
29	16	8.900	340.000	16	YES	
30	27	6.600	301.000	17	YES	

Detailed Results for Radar Type 4

Trial Number	Random Trial used	Pulse Width (μs)	PRI (μs)	No. of Pulses	Pulses Detected	Comment
1	43	15.800	410.000	15	YES	
2	10	14.200	351.000	12	YES	
3	42	18.500	208.000	14	YES	
4	46	15.300	488.000	14	YES	
5	48	14.500	433.000	12	YES	
6	2	19.900	428.000	12	YES	
7	26	18.900	299.000	16	YES	
8	23	18.300	265.000	14	YES	
9	32	12.600	293.000	15	YES	
10	37	18.100	200.000	15	YES	
11	9	13.300	254.000	14	YES	
12	38	15.500	451.000	15	YES	
13	11	14.900	223.000	12	YES	
14	30	11.800	384.000	14	YES	
15	22	17.800	420.000	13	YES	
16	20	12.300	438.000	13	YES	
17	5	14.100	478.000	15	YES	
18	16	19.900	366.000	14	YES	
19	21	11.700	483.000	16	YES	
20	33	19.500	384.000	13	YES	
21	34	17.300	366.000	14	YES	
22	14	16.600	212.000	16	YES	
23	4	12.600	360.000	14	YES	
24	1	15.900	410.000	13	YES	
25	24	18.100	397.000	14	YES	
26	15	14.700	324.000	13	YES	
27	27	15.600	303.000	13	YES	
28	17	17.100	308.000	15	YES	
29	49	11.100	396.000	13	YES	
30	28	13.000	309.000	14	YES	

Detailed Results for Radar Type 5

Trial Number	Random Trial used	Pulses Detected	Comment
1	49	YES	For detailed burst Data see separate table Type5_Trial1
2	4	YES	For detailed burst Data see separate table Type5_Trial2
3	25	YES	For detailed burst Data see separate table Type5_Trial3
4	31	YES	For detailed burst Data see separate table Type5_Trial4
5	45	YES	For detailed burst Data see separate table Type5_Trial5
6	18	YES	For detailed burst Data see separate table Type5_Trial6
7	50	YES	For detailed burst Data see separate table Type5_Trial7
8	30	YES	For detailed burst Data see separate table Type5_Trial8
9	46	YES	For detailed burst Data see separate table Type5_Trial9
10	19	YES	For detailed burst Data see separate table Type5_Trial10
11	11	YES	For detailed burst Data see separate table Type5_Trial11
12	20	YES	For detailed burst Data see separate table Type5_Trial12
13	35	YES	For detailed burst Data see separate table Type5_Trial13
14	17	YES	For detailed burst Data see separate table Type5_Trial14
15	36	YES	For detailed burst Data see separate table Type5_Trial15
16	38	YES	For detailed burst Data see separate table Type5_Trial16
17	37	YES	For detailed burst Data see separate table Type5_Trial17
18	22	YES	For detailed burst Data see separate table Type5_Trial18
19	12	YES	For detailed burst Data see separate table Type5_Trial19
20	32	YES	For detailed burst Data see separate table Type5_Trial20
21	42	YES	For detailed burst Data see separate table Type5_Trial21
22	28	YES	For detailed burst Data see separate table Type5_Trial22
23	27	YES	For detailed burst Data see separate table Type5_Trial23
24	13	YES	For detailed burst Data see separate table Type5_Trial24
25	26	YES	For detailed burst Data see separate table Type5_Trial25
26	2	YES	For detailed burst Data see separate table Type5_Trial26
27	23	YES	For detailed burst Data see separate table Type5_Trial27
28	14	YES	For detailed burst Data see separate table Type5_Trial28
29	40	YES	For detailed burst Data see separate table Type5_Trial29
30	33	YES	For detailed burst Data see separate table Type5_Trial30

Detailed Results for Radar Type 5_Trial 1

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	69.400	19.000000	1872.000	---	221.000
2	2	59.100	19.000000	1839.000	---	120.000
3	3	76.800	19.000000	1911.000	981.000	550.000
4	2	70.500	19.000000	1328.000	---	331.000
5	1	63.100	19.000000	---	---	681.000
6	3	59.900	19.000000	1048.000	1055.000	264.000
7	2	50.000	19.000000	1246.000	---	301.000
8	2	53.200	19.000000	993.000	---	222.000
9	1	80.500	19.000000	---	---	496.000
10	2	86.900	19.000000	1135.000	---	371.000
11	3	99.000	19.000000	1818.000	935.000	639.000
12	3	85.200	19.000000	1495.000	1079.000	633.000
13	3	68.700	19.000000	1289.000	1482.000	99.000
14	2	85.700	19.000000	1340.000	---	358.000
15	2	82.900	19.000000	1395.000	---	502.000
16	2	53.400	19.000000	1111.000	---	74.000
17	2	97.400	19.000000	1764.000	---	476.000

Detailed Results for Radar Type 5_Trial 2

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	1	64.600	15.000000	---	---	373.000
2	2	95.900	15.000000	1430.000	---	66.000
3	2	54.800	15.000000	1287.000	---	696.000
4	2	63.800	15.000000	1654.000	---	597.000
5	2	55.100	15.000000	1400.000	---	517.000
6	2	92.900	15.000000	1849.000	---	259.000
7	3	56.500	15.000000	1000.000	1682.000	660.000
8	1	61.700	15.000000	---	---	591.000
9	1	58.100	15.000000	---	---	474.000
10	2	95.400	15.000000	1214.000	---	1077.000
11	2	96.700	15.000000	1667.000	---	917.000

Detailed Results for Radar Type 5_Trial 3

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	97.100	19.000000	1539.000	---	378.000
2	2	62.500	19.000000	1931.000	---	586.000
3	3	85.200	19.000000	1860.000	942.000	473.000
4	2	57.800	19.000000	1401.000	---	394.000
5	1	72.100	19.000000	---	---	254.000
6	1	92.700	19.000000	---	---	242.000
7	2	56.200	19.000000	1405.000	---	411.000
8	3	54.300	19.000000	1382.000	1712.000	591.000
9	3	88.200	19.000000	1026.000	1680.000	17.000
10	3	68.200	19.000000	1051.000	1804.000	269.000
11	2	91.600	19.000000	1080.000	---	315.000
12	2	94.700	19.000000	1056.000	---	501.000
13	2	60.900	19.000000	1566.000	---	227.000
14	2	57.700	19.000000	1345.000	---	332.000
15	2	80.500	19.000000	1002.000	---	131.000
16	1	78.700	19.000000	---	---	51.000
17	2	95.800	19.000000	1851.000	---	346.000
18	3	74.500	19.000000	1430.000	1097.000	108.000
19	3	65.700	19.000000	1155.000	1430.000	508.000

Detailed Results for Radar Type 5_Trial 4

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	78.100	10.000000	1102.000	---	160.000
2	2	51.400	10.000000	957.000	---	633.000
3	3	85.200	10.000000	1076.000	1386.000	363.000
4	1	96.300	10.000000	---	---	992.000
5	1	67.200	10.000000	---	---	751.000
6	3	68.900	10.000000	1284.000	1725.000	149.000
7	2	75.900	10.000000	958.000	---	690.000
8	2	87.000	10.000000	1715.000	---	512.000
9	1	88.500	10.000000	---	---	611.000
10	3	61.000	10.000000	1333.000	1179.000	361.000
11	1	57.000	10.000000	---	---	214.000
12	2	55.900	10.000000	1656.000	---	643.000

Detailed Results for Radar Type 5_Trial 5

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	52.400	9.000000	974.000	---	609.000
2	2	55.800	9.000000	1319.000	---	738.000
3	2	58.000	9.000000	1056.000	---	899.000
4	2	50.700	9.000000	975.000	---	575.000
5	1	54.600	9.000000	---	---	73.000
6	2	82.900	9.000000	1205.000	---	107.000
7	2	51.100	9.000000	991.000	---	451.000
8	2	94.700	9.000000	1862.000	---	331.000
9	2	65.500	9.000000	1034.000	---	871.000
10	2	62.000	9.000000	1226.000	---	12.000
11	3	65.600	9.000000	1015.000	1040.000	157.000
12	2	54.800	9.000000	1350.000	---	641.000
13	2	68.900	9.000000	1496.000	---	791.000

Detailed Results for Radar Type 5_Trial 6

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	1	93.600	5.000000	---	---	12.000
2	3	75.700	5.000000	1082.000	1831.000	391.000
3	1	78.600	5.000000	---	---	945.000
4	3	97.800	5.000000	1410.000	1227.000	166.000
5	2	90.700	5.000000	1124.000	---	67.000
6	2	98.300	5.000000	1313.000	---	512.000
7	3	72.800	5.000000	1011.000	1020.000	645.000
8	3	73.700	5.000000	1726.000	1553.000	442.000
9	1	90.200	5.000000	---	---	22.000
10	1	62.700	5.000000	---	---	746.000
11	3	83.300	5.000000	1501.000	1874.000	837.000
12	3	80.000	5.000000	1591.000	1770.000	458.000

Detailed Results for Radar Type 5_Trial 7

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	63.100	5.000000	1767.000	---	49.000
2	2	54.000	5.000000	1907.000	---	76.000
3	1	74.000	5.000000	---	---	573.000
4	3	69.500	5.000000	1490.000	1185.000	440.000
5	2	62.300	5.000000	1013.000	---	645.000
6	2	52.800	5.000000	1682.000	---	178.000
7	2	90.100	5.000000	1367.000	---	171.000
8	1	86.200	5.000000	---	---	251.000
9	2	94.800	5.000000	908.000	---	307.000
10	2	66.500	5.000000	972.000	---	415.000
11	3	60.800	5.000000	1555.000	1769.000	440.000
12	2	69.200	5.000000	1364.000	---	408.000
13	2	82.600	5.000000	1077.000	---	86.000
14	3	89.600	5.000000	934.000	1096.000	215.000
15	2	87.700	5.000000	958.000	---	272.000
16	2	74.300	5.000000	1246.000	---	576.000
17	1	98.600	5.000000	---	---	262.000
18	3	82.600	5.000000	1172.000	1322.000	628.000

Detailed Results for Radar Type 5_Trial 8

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	77.900	16.000000	1250.000	---	478.000
2	2	69.500	16.000000	1007.000	---	962.000
3	2	74.500	16.000000	1631.000	---	657.000
4	1	93.900	16.000000	---	---	564.000
5	2	55.400	16.000000	949.000	---	59.000
6	3	50.400	16.000000	1162.000	1396.000	565.000
7	1	68.600	16.000000	---	---	732.000
8	3	88.700	16.000000	1750.000	1835.000	872.000
9	2	54.900	16.000000	1869.000	---	32.000
10	3	51.000	16.000000	970.000	1344.000	750.000
11	3	86.500	16.000000	1599.000	1682.000	364.000

Detailed Results for Radar Type 5_Trial 9

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	52.300	11.000000	1799.000	1297.000	737.000
2	3	53.600	11.000000	1397.000	1860.000	189.000
3	1	59.200	11.000000	---	---	495.000
4	3	54.300	11.000000	1885.000	1319.000	152.000
5	1	75.600	11.000000	---	---	76.000
6	1	52.900	11.000000	---	---	190.000
7	1	97.700	11.000000	---	---	195.000
8	2	50.200	11.000000	1276.000	---	604.000
9	3	95.000	11.000000	1526.000	1582.000	267.000
10	3	77.500	11.000000	1494.000	1729.000	842.000
11	1	66.900	11.000000	---	---	144.000
12	2	96.100	11.000000	1441.000	---	435.000
13	3	62.500	11.000000	1037.000	1474.000	262.000
14	2	53.100	11.000000	1278.000	---	525.000

Detailed Results for Radar Type 5_Trial 10

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	1	80.100	9.000000	---	---	183.000
2	2	59.600	9.000000	946.000	---	473.000
3	2	89.000	9.000000	1573.000	---	426.000
4	2	68.300	9.000000	1801.000	---	366.000
5	1	89.400	9.000000	---	---	250.000
6	2	64.000	9.000000	958.000	---	447.000
7	2	82.200	9.000000	1272.000	---	585.000
8	2	67.300	9.000000	1688.000	---	134.000
9	2	52.500	9.000000	1696.000	---	264.000
10	2	84.100	9.000000	1133.000	---	335.000
11	2	53.000	9.000000	1374.000	---	890.000
12	2	62.000	9.000000	1636.000	---	526.000
13	3	96.100	9.000000	1660.000	1103.000	493.000

Detailed Results for Radar Type 5_Trial 11

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	61.700	11.000000	1264.000	1572.000	640.000
2	3	82.600	11.000000	923.000	1387.000	439.000
3	2	74.800	11.000000	1230.000	---	16.000
4	2	77.700	11.000000	1544.000	---	613.000
5	1	80.400	11.000000	---	---	213.000
6	3	88.700	11.000000	1316.000	1461.000	568.000
7	3	78.100	11.000000	1065.000	1167.000	387.000
8	2	56.600	11.000000	1454.000	---	647.000
9	1	63.600	11.000000	---	---	285.000
10	2	73.100	11.000000	1369.000	---	189.000
11	2	67.900	11.000000	994.000	---	165.000
12	2	76.500	11.000000	1164.000	---	480.000
13	1	63.700	11.000000	---	---	28.000
14	2	70.100	11.000000	1823.000	---	516.000
15	2	90.400	11.000000	1694.000	---	561.000
16	2	87.700	11.000000	1528.000	---	420.000
17	3	77.700	11.000000	1339.000	1407.000	61.000
18	1	81.300	11.000000	---	---	67.000

Detailed Results for Radar Type 5_Trial 12

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	69.000	7.000000	1220.000	---	20.000
2	3	88.500	7.000000	1376.000	1096.000	45.000
3	2	56.300	7.000000	1207.000	---	779.000
4	2	88.800	7.000000	1793.000	---	532.000
5	1	78.600	7.000000	---	---	577.000
6	2	82.300	7.000000	1534.000	---	549.000
7	1	71.700	7.000000	---	---	612.000
8	2	52.800	7.000000	1891.000	---	631.000
9	1	66.100	7.000000	---	---	166.000
10	2	72.800	7.000000	1460.000	---	381.000
11	2	82.900	7.000000	1293.000	---	451.000
12	3	72.300	7.000000	1224.000	1577.000	61.000
13	2	91.900	7.000000	1281.000	---	619.000
14	3	82.400	7.000000	1570.000	1469.000	99.000

Detailed Results for Radar Type 5_Trial 13

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	52.100	18.000000	1215.000	---	17.000
2	3	99.800	18.000000	1736.000	1673.000	148.000
3	2	53.200	18.000000	1233.000	---	12.000
4	1	87.200	18.000000	---	---	540.000
5	2	75.200	18.000000	975.000	---	618.000
6	3	63.600	18.000000	1614.000	1448.000	732.000
7	2	61.200	18.000000	1118.000	---	137.000
8	2	86.400	18.000000	1014.000	---	331.000
9	2	79.400	18.000000	1910.000	---	737.000
10	2	84.300	18.000000	1126.000	---	48.000
11	2	81.500	18.000000	1345.000	---	288.000
12	3	81.300	18.000000	1810.000	952.000	529.000
13	2	94.900	18.000000	1306.000	---	612.000
14	3	69.600	18.000000	1632.000	1730.000	692.000
15	3	73.300	18.000000	1015.000	1552.000	317.000
16	3	93.100	18.000000	1179.000	1533.000	7.000

Detailed Results for Radar Type 5_Trial 14

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	1	93.100	11.000000	---	---	422.000
2	3	61.300	11.000000	1194.000	1086.000	738.000
3	3	57.000	11.000000	1918.000	1102.000	523.000
4	3	91.800	11.000000	1588.000	1798.000	874.000
5	3	88.600	11.000000	1491.000	1061.000	748.000
6	3	62.400	11.000000	1019.000	1144.000	525.000
7	3	88.000	11.000000	1259.000	1713.000	641.000
8	2	77.700	11.000000	1025.000	---	383.000
9	1	51.800	11.000000	---	---	554.000
10	1	55.900	11.000000	---	---	939.000
11	3	63.700	11.000000	1503.000	1789.000	182.000

Detailed Results for Radar Type 5_Trial 15

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	74.800	8.000000	1894.000	---	41.000
2	2	95.100	8.000000	1815.000	---	443.000
3	1	95.500	8.000000	---	---	663.000
4	2	87.500	8.000000	1259.000	---	156.000
5	3	86.300	8.000000	947.000	1761.000	185.000
6	1	90.900	8.000000	---	---	246.000
7	2	51.800	8.000000	1879.000	---	166.000
8	1	92.100	8.000000	---	---	203.000
9	3	83.800	8.000000	1477.000	1851.000	570.000
10	1	51.500	8.000000	---	---	48.000
11	1	60.400	8.000000	---	---	1.000
12	3	95.800	8.000000	934.000	1424.000	382.000
13	2	79.200	8.000000	1808.000	---	537.000
14	3	79.500	8.000000	1300.000	1192.000	323.000
15	1	83.200	8.000000	---	---	343.000
16	2	98.800	8.000000	1791.000	---	560.000
17	2	50.800	8.000000	1866.000	---	659.000

Detailed Results for Radar Type 5_Trial 16

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	79.600	17.000000	1029.000	---	270.000
2	1	90.200	17.000000	---	---	580.000
3	3	66.100	17.000000	1312.000	1766.000	86.000
4	1	95.200	17.000000	---	---	92.000
5	2	76.300	17.000000	1238.000	---	368.000
6	2	75.800	17.000000	1106.000	---	165.000
7	3	50.700	17.000000	1312.000	1580.000	377.000
8	3	56.300	17.000000	1837.000	1154.000	323.000
9	3	56.100	17.000000	1061.000	1394.000	400.000
10	3	81.200	17.000000	1582.000	1379.000	405.000
11	2	89.700	17.000000	1845.000	---	506.000
12	1	97.800	17.000000	---	---	331.000
13	1	75.700	17.000000	---	---	430.000
14	3	50.200	17.000000	1237.000	1653.000	544.000
15	2	52.000	17.000000	1729.000	---	339.000
16	2	69.400	17.000000	1603.000	---	44.000
17	2	67.500	17.000000	1168.000	---	521.000
18	2	98.100	17.000000	958.000	---	384.000
19	3	63.600	17.000000	1260.000	1640.000	194.000

Detailed Results for Radar Type 5_Trial 17

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	1	84.500	5.000000	---	---	77.000
2	2	85.100	5.000000	1049.000	---	561.000
3	2	77.500	5.000000	1012.000	---	322.000
4	2	95.300	5.000000	1524.000	---	591.000
5	2	69.000	5.000000	1447.000	---	479.000
6	2	65.200	5.000000	1574.000	---	177.000
7	3	77.400	5.000000	1446.000	1628.000	4.000
8	2	58.000	5.000000	1737.000	---	631.000
9	3	58.500	5.000000	1714.000	1626.000	330.000
10	1	98.600	5.000000	---	---	508.000
11	1	73.900	5.000000	---	---	27.000
12	1	67.700	5.000000	---	---	157.000
13	1	99.000	5.000000	---	---	313.000
14	2	76.800	5.000000	1232.000	---	429.000
15	2	89.900	5.000000	1618.000	---	574.000
16	3	88.000	5.000000	1587.000	1221.000	326.000
17	1	55.100	5.000000	---	---	550.000
18	3	93.900	5.000000	930.000	1084.000	275.000

Detailed Results for Radar Type 5_Trial 18

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	1	66.600	20.000000	---	---	330.000
2	1	74.500	20.000000	---	---	248.000
3	2	68.200	20.000000	1149.000	---	80.000
4	2	70.100	20.000000	1849.000	---	536.000
5	3	65.800	20.000000	1316.000	1180.000	623.000
6	3	82.100	20.000000	1690.000	1661.000	503.000
7	2	95.900	20.000000	1840.000	---	687.000
8	1	51.100	20.000000	---	---	107.000
9	2	99.600	20.000000	1035.000	---	389.000
10	1	59.600	20.000000	---	---	424.000
11	3	96.000	20.000000	1733.000	1820.000	427.000
12	3	64.400	20.000000	1553.000	1679.000	204.000
13	2	82.800	20.000000	1451.000	---	69.000
14	2	86.800	20.000000	1508.000	---	573.000
15	2	76.300	20.000000	1738.000	---	361.000
16	2	83.800	20.000000	1152.000	---	683.000

Detailed Results for Radar Type 5_Trial 19

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	80.800	17.000000	1865.000	---	407.000
2	2	65.200	17.000000	1617.000	---	541.000
3	2	55.500	17.000000	1012.000	---	474.000
4	2	97.400	17.000000	1402.000	---	157.000
5	2	70.500	17.000000	1522.000	---	531.000
6	2	84.400	17.000000	1207.000	---	573.000
7	3	86.000	17.000000	1566.000	1277.000	121.000
8	2	76.800	17.000000	1481.000	---	136.000
9	2	87.400	17.000000	993.000	---	227.000
10	2	56.300	17.000000	1384.000	---	27.000
11	3	86.700	17.000000	920.000	1181.000	224.000
12	3	81.000	17.000000	959.000	1111.000	506.000
13	2	50.500	17.000000	1891.000	---	173.000
14	2	92.000	17.000000	1263.000	---	553.000
15	2	62.200	17.000000	1469.000	---	311.000
16	2	69.400	17.000000	1007.000	---	332.000
17	3	65.600	17.000000	1335.000	1823.000	519.000
18	2	70.300	17.000000	1590.000	---	96.000
19	3	78.100	17.000000	1361.000	1775.000	12.000

Detailed Results for Radar Type 5_Trial 20

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	1	80.900	6.000000	---	---	565.000
2	3	55.800	6.000000	1708.000	1448.000	439.000
3	2	93.400	6.000000	985.000	---	706.000
4	2	83.200	6.000000	1912.000	---	758.000
5	3	59.100	6.000000	1594.000	1591.000	79.000
6	2	74.400	6.000000	939.000	---	107.000
7	3	85.400	6.000000	1733.000	1253.000	238.000
8	3	98.000	6.000000	1896.000	1606.000	373.000
9	1	92.100	6.000000	---	---	363.000
10	1	84.400	6.000000	---	---	227.000
11	2	67.400	6.000000	1272.000	---	646.000
12	3	92.000	6.000000	1831.000	1066.000	457.000
13	3	87.500	6.000000	1763.000	1055.000	22.000

Detailed Results for Radar Type 5_Trial 21

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	68.400	12.000000	1658.000	1189.000	811.000
2	3	79.800	12.000000	1645.000	1732.000	1059.000
3	1	86.100	12.000000	---	---	970.000
4	1	83.200	12.000000	---	---	765.000
5	1	97.500	12.000000	---	---	1117.000
6	2	51.300	12.000000	1708.000	---	559.000
7	3	77.900	12.000000	1276.000	1521.000	253.000
8	3	80.800	12.000000	1804.000	959.000	563.000
9	2	82.100	12.000000	1443.000	---	169.000
10	3	65.000	12.000000	1848.000	1035.000	156.000

Detailed Results for Radar Type 5_Trial 22

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	97.500	12.000000	1544.000	---	99.000
2	2	65.600	12.000000	1375.000	---	550.000
3	1	68.300	12.000000	---	---	550.000
4	3	50.300	12.000000	1878.000	1651.000	1131.000
5	3	51.700	12.000000	975.000	1518.000	102.000
6	3	57.200	12.000000	1700.000	1447.000	1041.000
7	2	98.400	12.000000	1637.000	---	130.000
8	3	58.900	12.000000	1602.000	1161.000	38.000
9	2	60.100	12.000000	984.000	---	333.000

Detailed Results for Radar Type 5_Trial 23

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	55.900	14.000000	1883.000	---	1025.000
2	2	64.100	14.000000	1710.000	---	849.000
3	2	77.200	14.000000	1650.000	---	136.000
4	2	96.600	14.000000	1520.000	---	468.000
5	2	98.000	14.000000	923.000	---	376.000
6	2	66.700	14.000000	1462.000	---	705.000
7	3	66.400	14.000000	1003.000	1192.000	1416.000
8	2	57.000	14.000000	1038.000	---	240.000

Detailed Results for Radar Type 5_Trial 24

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	1	51.100	19.000000	---	---	551.000
2	2	85.100	19.000000	1734.000	---	404.000
3	3	52.100	19.000000	1720.000	1874.000	512.000
4	1	74.000	19.000000	---	---	40.000
5	2	52.100	19.000000	1849.000	---	96.000
6	2	76.700	19.000000	1657.000	---	349.000
7	1	55.400	19.000000	---	---	91.000
8	3	81.200	19.000000	1796.000	1552.000	89.000
9	2	60.900	19.000000	1713.000	---	57.000
10	2	57.100	19.000000	1611.000	---	530.000
11	2	50.100	19.000000	1364.000	---	248.000
12	1	89.400	19.000000	---	---	296.000
13	3	64.500	19.000000	1437.000	1500.000	469.000
14	2	72.500	19.000000	1415.000	---	437.000
15	3	72.200	19.000000	1705.000	1577.000	554.000
16	2	87.800	19.000000	1175.000	---	48.000
17	2	91.300	19.000000	1613.000	---	537.000
18	2	65.400	19.000000	1307.000	---	194.000
19	1	56.300	19.000000	---	---	276.000
20	2	68.900	19.000000	1611.000	---	430.000

Detailed Results for Radar Type 5_Trial 25

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	56.900	7.000000	1444.000	967.000	453.000
2	3	59.600	7.000000	1787.000	1144.000	206.000
3	3	95.100	7.000000	1708.000	1109.000	579.000
4	1	90.100	7.000000	---	---	554.000
5	1	81.600	7.000000	---	---	140.000
6	2	78.100	7.000000	1096.000	---	407.000
7	1	99.000	7.000000	---	---	350.000
8	3	81.300	7.000000	1461.000	1547.000	552.000
9	2	54.900	7.000000	1737.000	---	501.000
10	2	54.200	7.000000	1388.000	---	121.000
11	2	86.200	7.000000	971.000	---	397.000
12	2	79.100	7.000000	1117.000	---	318.000
13	2	55.200	7.000000	1399.000	---	427.000
14	1	57.800	7.000000	---	---	441.000
15	2	56.500	7.000000	1323.000	---	397.000
16	1	57.200	7.000000	---	---	435.000
17	2	71.400	7.000000	989.000	---	500.000
18	2	75.000	7.000000	1489.000	---	16.000
19	1	94.000	7.000000	---	---	44.000
20	3	72.700	7.000000	1153.000	1688.000	262.000

Detailed Results for Radar Type 5_Trial 26

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	66.900	16.000000	1927.000	---	308.000
2	3	68.300	16.000000	1068.000	1286.000	574.000
3	2	50.600	16.000000	1234.000	---	468.000
4	2	58.200	16.000000	1470.000	---	785.000
5	3	58.300	16.000000	1083.000	1021.000	1235.000
6	1	71.500	16.000000	---	---	91.000
7	1	67.400	16.000000	---	---	710.000
8	3	59.100	16.000000	1642.000	1231.000	561.000
9	2	66.000	16.000000	1446.000	---	628.000

Detailed Results for Radar Type 5_Trial 27

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	51.000	9.000000	1731.000	---	259.000
2	2	69.300	9.000000	1762.000	---	617.000
3	1	94.600	9.000000	---	---	379.000
4	2	65.100	9.000000	1536.000	---	103.000
5	3	51.100	9.000000	1546.000	1400.000	650.000
6	2	86.100	9.000000	1619.000	---	221.000
7	1	80.000	9.000000	---	---	44.000
8	1	60.800	9.000000	---	---	384.000
9	3	56.200	9.000000	1627.000	1397.000	126.000
10	1	99.700	9.000000	---	---	20.000
11	1	84.000	9.000000	---	---	411.000
12	3	83.100	9.000000	1223.000	1586.000	232.000
13	1	50.900	9.000000	---	---	179.000
14	1	53.200	9.000000	---	---	48.000
15	2	71.800	9.000000	1079.000	---	692.000
16	2	66.300	9.000000	1893.000	---	503.000
17	2	51.200	9.000000	1362.000	---	455.000

Detailed Results for Radar Type 5_Trial 28

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	86.900	18.000000	1072.000	1743.000	270.000
2	3	81.200	18.000000	1473.000	1232.000	993.000
3	3	100.000	18.000000	1838.000	1883.000	1083.000
4	1	65.400	18.000000	---	---	815.000
5	3	80.200	18.000000	1355.000	1538.000	799.000
6	3	96.500	18.000000	1759.000	1784.000	72.000
7	3	80.300	18.000000	1386.000	1646.000	426.000
8	2	81.600	18.000000	1787.000	---	878.000

Detailed Results for Radar Type 5_Trial 29

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	57.400	6.000000	963.000	---	180.000
2	2	93.600	6.000000	1584.000	---	459.000
3	2	80.100	6.000000	1493.000	---	435.000
4	1	64.100	6.000000	---	---	1256.000
5	2	67.700	6.000000	1215.000	---	734.000
6	1	96.500	6.000000	---	---	1281.000
7	2	81.500	6.000000	974.000	---	1432.000
8	2	66.800	6.000000	1558.000	---	92.000

Detailed Results for Radar Type 5_Trial 30

Burst	No. of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	2	59.500	11.000000	1738.000	---	660.000
2	1	57.000	11.000000	---	---	796.000
3	2	54.400	11.000000	1891.000	---	779.000
4	2	97.500	11.000000	1566.000	---	298.000
5	3	52.000	11.000000	1941.000	1472.000	201.000
6	1	62.500	11.000000	---	---	211.000
7	2	79.100	11.000000	1016.000	---	30.000
8	2	98.600	11.000000	927.000	---	485.000
9	2	52.900	11.000000	1814.000	---	328.000
10	2	64.600	11.000000	1644.000	---	339.000
11	3	75.300	11.000000	1710.000	1296.000	500.000
12	1	74.200	11.000000	---	---	451.000
13	1	58.400	11.000000	---	---	160.000
14	1	97.500	11.000000	---	---	573.000

Detailed Results for Radar Type 6

Trial Number	Pulse Width (μs)	PRI (μs)	No. of Pulses	Pulses Detected	Comment
1	1.000	300.000	9	YES	
2	1.000	300.000	9	YES	
3	1.000	300.000	9	YES	
4	1.000	300.000	9	YES	
5	1.000	300.000	9	YES	
6	1.000	300.000	9	YES	
7	1.000	300.000	9	YES	
8	1.000	300.000	9	YES	
9	1.000	300.000	9	YES	
10	1.000	300.000	9	YES	
11	1.000	300.000	9	YES	
12	1.000	300.000	9	YES	
13	1.000	300.000	9	YES	
14	1.000	300.000	9	YES	
15	1.000	300.000	9	YES	
16	1.000	300.000	9	YES	
17	1.000	300.000	9	YES	
18	1.000	300.000	9	YES	
19	1.000	300.000	9	YES	
20	1.000	300.000	9	YES	
21	1.000	300.000	9	YES	
22	1.000	300.000	9	YES	
23	1.000	300.000	9	YES	
24	1.000	300.000	9	YES	
25	1.000	300.000	9	YES	
26	1.000	300.000	9	YES	
27	1.000	300.000	9	YES	
28	1.000	300.000	9	YES	
29	1.000	300.000	9	YES	
30	1.000	300.000	9	YES	

Radar level verification

Description / Formula	Value	Unit
IF(({DFS Mode(0/1/2)}=0)or({DFS Mode(0/1/2)}=1) , IF((dBm2W({Nominal Power[dBm]}>0.2) , -64 , IF(({Configured PSD[dBm]}<10) , -62 , -64))+ {Attenuation Vector Generator to DUT[dB]} , -50+ {Attenuation Vector Generator to COMP[dB]}))+ {Radar Signal Level Offset[dB]}	Given setting / formula to calculate Vector Generator level	--
Configured DUT EIRP:	63.10	mW
Configured DUT PSD:	7.21	dBm/MHz
Requirement of the Detection threshold value for this given values acc. to FCC clause 5.2 / Table 3	-62	dBm
Vector Generator level setting	-5.49	dBm
Configured overall pathloss from Vector Generator RF out to DUT connector of 'DUT to OSP'-cable	55.51	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	-61.00	dBm

Settings for Radar Type 1 to 4

Setting	Instrument Value	Target Value
Center Frequency	5.29000 GHz	5.29000 GHz
Span	Zero Span	Zero Span
RBW	3.000 MHz	>= 3.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
Sweep Points	30001	~ 30001
Sweep time	12.000 s	12.000 s
Reference Level	-5.000 dBm	AUTO
Attenuation	0.000 dB	0.000 dB
Detector	Max Peak	Max Peak
Sweep Count	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweep type	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	1.000 s	1.000 s

Settings for Long Pulse Radar Type 5

Setting	Instrument Value	Target Value
Center Frequency	5.29000 GHz	5.29000 GHz
Span	Zero Span	Zero Span
RBW	3.000 MHz	>= 3.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
Sweep Points	30001	~ 30001
Sweep time	36.000 s	36.000 s
Reference Level	-5.000 dBm	AUTO
Attenuation	0.000 dB	0.000 dB
Detector	Max Peak	Max Peak
Sweep Count	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweep type	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	1.000 s	1.000 s

Settings for Freq. Hopping Radar Type 6

Setting	Instrument Value	Target Value
Center Frequency	5.29000 GHz	5.29000 GHz
Span	Zero Span	Zero Span
RBW	3.000 MHz	>= 3.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
Sweep Points	30001	~ 30001
Sweep time	12.000 s	12.000 s
Reference Level	-5.000 dBm	AUTO
Attenuation	0.000 dB	0.000 dB
Detector	Max Peak	Max Peak
Sweep Count	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweep type	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	1.000 s	1.000 s

OSP Video Detector

Setting	Instrument Value	Target Value
Measurement Time	12.000 s	12.000 s
Sample rate	2500 kHz	2500 kHz
Trace points	30000000	30000000
Time resolution	4.000 μ s	4.000 μ s
Detector	Peak	Peak

18.8. DFS U-NII Detection Bandwidth (5320 MHz; 18.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.407(h), KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1%

Measurement Summary

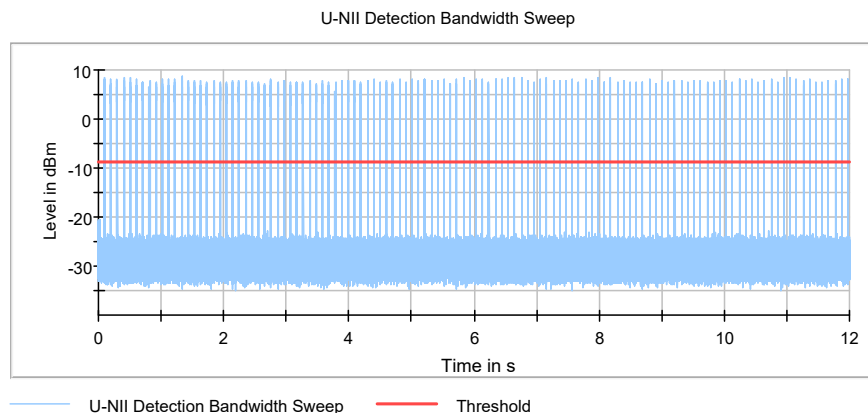
DUT Frequency (MHz)	Radar Type No.	Measured Detection Bandwidth (MHz)	99% Transmission power Bandwidth (MHz)	Overall Result	Overall Comment
5320.000000	0	20.000000	20.000000	PASS	

Detection Bandwidth Detailed Results

Check Frequency (MHz)	Detection count	Percentage of Detection	Minimum Limit	Single Measurement Result	Single Measurement Comment
5305.000000	0 of 10	0 %	90%	FAIL	
5309.000000	0 of 10	0 %	90%	FAIL	
5310.000000	10 of 10	100 %	90%	PASS	Lower Limit
5315.000000	10 of 10	100 %	90%	PASS	
5320.000000	10 of 10	100 %	90%	PASS	
5325.000000	10 of 10	100 %	90%	PASS	
5330.000000	10 of 10	100 %	90%	PASS	Upper Limit
5331.000000	0 of 10	0 %	90%	FAIL	
5335.000000	0 of 10	0 %	90%	FAIL	

Radar level verification

Description / Formula	Value	Unit
IF(({DFS Mode(0/1/2)}=0)or({DFS Mode(0/1/2)}=1) , IF((dBm2W({Nominal Power[dBm]}>0.2) , -64 , IF(({Configured PSD[dBm]}<10) , -62 , -64))+ {Attenuation Vector Generator to DUT[dB]} , -50+ {Attenuation Vector Generator to COMP[dB]}+ {Radar Signal Level Offset[dB]}))	Given setting / formula to calculate Vector Generator level	--
Configured DUT EIRP:	63.10	mW
Configured DUT PSD:	4.99	dBm/MHz
Requirement of the Detection threshold value for this given values acc. to FCC clause 5.2 / Table 3	-62	dBm
Vector Generator level setting	-5.30	dBm
Configured overall pathloss from Vector Generator RF out to DUT connector of 'DUT to OSP'-cable	55.70	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	-61.00	dBm



U-NII Detection Bandwidth Sweep

Setting	Instrument Value	Target Value
Center Frequency	5.32000 GHz	5.32000 GHz
Span	Zero Span	Zero Span
RBW	3.000 MHz	≥ 3.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
Sweep Points	30001	~ 30001
Sweep time	12.000 s	12.000 s
Reference Level	-5.000 dBm	AUTO
Attenuation	0.000 dB	0.000 dB
Detector	Max Peak	Max Peak
Sweep Count	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweep type	Sweep	AUTO
Preamplifier	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

OSP Video Detector

Setting	Instrument Value	Target Value
Measurement Time	12.000 s	12.000 s
Samplerate	2500 kHz	2500 kHz
Tracepoints	30000000	30000000
Time resolution	4.000 μ s	4.000 μ s
Detector	Peak	Peak

18.9. DFS U-NII Detection Bandwidth (5310 MHz; 18.000 dBm; 40 MHz)

Test according to FCC title 47 part 15 §15.407(h), KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1%

Measurement Summary

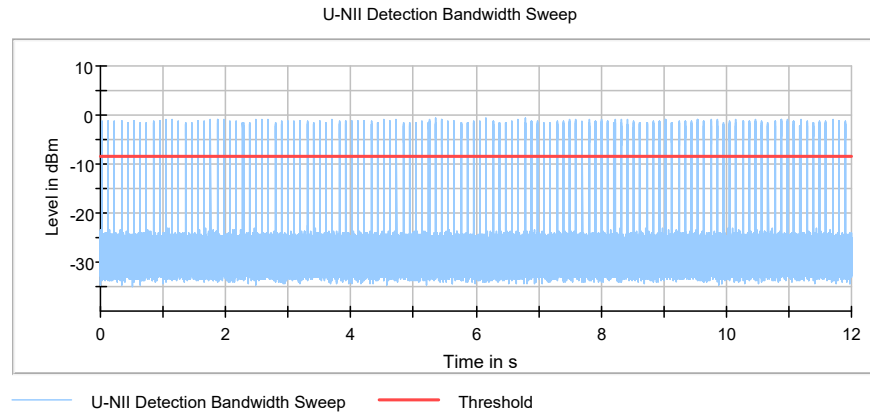
DUT Frequency (MHz)	Radar Type No.	Measured Detection Bandwidth (MHz)	99% Transmission power Bandwidth (MHz)	Overall Result	Overall Comment
5310.000000	0	40.000000	40.000000	PASS	

Detection Bandwidth Detailed Results

Check Frequency (MHz)	Detection count	Percentage of Detection	Minimum Limit	Single Measurement Result	Single Measurement Comment
5285.000000	0 of 10	0 %	90%	FAIL	
5289.000000	0 of 10	0 %	90%	FAIL	
5290.000000	10 of 10	100 %	90%	PASS	Lower Limit
5295.000000	10 of 10	100 %	90%	PASS	
5300.000000	10 of 10	100 %	90%	PASS	
5305.000000	10 of 10	100 %	90%	PASS	
5310.000000	10 of 10	100 %	90%	PASS	
5315.000000	10 of 10	100 %	90%	PASS	
5320.000000	10 of 10	100 %	90%	PASS	
5325.000000	10 of 10	100 %	90%	PASS	
5330.000000	10 of 10	100 %	90%	PASS	Upper Limit
5331.000000	0 of 10	0 %	90%	FAIL	
5335.000000	4 of 10	40 %	90%	FAIL	

Radar level verification

Description / Formula	Value	Unit
IF(({DFS Mode(0/1/2)}=0)or({DFS Mode(0/1/2)}=1) , IF((dBm2W({Nominal Power[dBm]}>0.2) , -64 , IF(({Configured PSD[dBm]}<10) , -62 , -64))+ {Attenuation Vector Generator to DUT[dB]} , -50+ {Attenuation Vector Generator to COMP[dB]}+ {Radar Signal Level Offset[dB]}))	Given setting / formula to calculate Vector Generator level	--
Configured DUT EIRP:	63.10	mW
Configured DUT PSD:	1.98	dBm/MHz
Requirement of the Detection threshold value for this given values acc. to FCC clause 5.2 / Table 3	-62	dBm
Vector Generator level setting	-5.37	dBm
Configured overall pathloss from Vector Generator RF out to DUT connector of 'DUT to OSP'-cable	55.63	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	-61.00	dBm



U-NII Detection Bandwidth Sweep

Setting	Instrument Value	Target Value
Center Frequency	5.31000 GHz	5.31000 GHz
Span	Zero Span	Zero Span
RBW	3.000 MHz	≥ 3.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
Sweep Points	30001	~ 30001
Sweep time	12.000 s	12.000 s
Reference Level	-5.000 dBm	AUTO
Attenuation	0.000 dB	0.000 dB
Detector	Max Peak	Max Peak
Sweep Count	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweep type	Sweep	AUTO
Preamplifier	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

OSP Video Detector

Setting	Instrument Value	Target Value
Measurement Time	12.000 s	12.000 s
Samplerate	2500 kHz	2500 kHz
Tracepoints	30000000	30000000
Time resolution	4.000 μ s	4.000 μ s
Detector	Peak	Peak

18.10. DFS U-NII Detection Bandwidth (5290 MHz; 18.000 dBm; 80 MHz)

Test according to FCC title 47 part 15 §15.407(h), KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1%

Measurement Summary

DUT Frequency (MHz)	Radar Type No.	Measured Detection Bandwidth (MHz)	99% Transmission power Bandwidth (MHz)	Overall Result	Overall Comment
5290.000000	0	80.000000	80.000000	PASS	

Detection Bandwidth Detailed Results

Check Frequency (MHz)	Detection count	Percentage of Detection	Minimum Limit	Single Measurement Result	Single Measurement Comment
5245.000000	0 of 10	0%	90%	FAIL	
5249.000000	0 of 10	0%	90%	FAIL	
5250.000000	10 of 10	100%	90%	PASS	Lower Limit
5255.000000	10 of 10	100%	90%	PASS	
5260.000000	10 of 10	100%	90%	PASS	
5265.000000	10 of 10	100%	90%	PASS	
5270.000000	10 of 10	100%	90%	PASS	
5275.000000	10 of 10	100%	90%	PASS	
5280.000000	10 of 10	100%	90%	PASS	
5285.000000	10 of 10	100%	90%	PASS	
5290.000000	10 of 10	100%	90%	PASS	
5295.000000	10 of 10	100%	90%	PASS	
5300.000000	10 of 10	100%	90%	PASS	
5305.000000	10 of 10	100%	90%	PASS	
5310.000000	10 of 10	100%	90%	PASS	
5315.000000	10 of 10	100%	90%	PASS	
5320.000000	10 of 10	100%	90%	PASS	
5325.000000	10 of 10	100%	90%	PASS	
5330.000000	10 of 10	100%	90%	PASS	Upper Limit
5331.000000	0 of 10	0%	90%	FAIL	
5335.000000	0 of 10	0%	90%	FAIL	

Radar level verification

Description / Formula	Value	Unit
IF(({DFS Mode(0/1/2)}=0)or({DFS Mode(0/1/2)}=1) , IF((dBm2W({Nominal Power[dBm]}>0.2) , -64 , IF(({Configured PSD[dBm]}<10) , -62 , -64))+ {Attenuation Vector Generator to DUT[dB]} , -50+ {Attenuation Vector Generator to COMP[dB]}+ {Radar Signal Level Offset[dB]}))	Given setting / formula to calculate Vector Generator level	--
Configured DUT EIRP:	63.10	mW
Configured DUT PSD:	1.98	dBm/MHz
Requirement of the Detection threshold value for this given values acc. to FCC clause 5.2 / Table 3	-62	dBm
Vector Generator level setting	-5.37	dBm
Configured overall pathloss from Vector Generator RF out to DUT connector of 'DUT to OSP'-cable	55.63	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	-61.00	dBm

U-NII Detection Bandwidth Sweep

Setting	Instrument Value	Target Value
Center Frequency	5.29000 GHz	5.29000 GHz
Span	Zero Span	Zero Span
RBW	3.000 MHz	>= 3.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
Sweep Points	30001	~ 30001
Sweep time	12.000 s	12.000 s
Reference Level	-5.000 dBm	AUTO
Attenuation	0.000 dB	0.000 dB
Detector	Max Peak	Max Peak
Sweep Count	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
Sweep type	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

OSP Video Detector

Setting	Instrument Value	Target Value
Measurement Time	12.000 s	12.000 s
Samplerate	2500 kHz	2500 kHz
Tracepoints	30000000	30000000
Time resolution	4.000 μ s	4.000 μ s
Detector	Peak	Peak

19. Scope of Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELITE ELECTRONIC ENGINEERING, INC.
1516 Centre Circle
Downers Grove, IL 60515
Robert Bugielski (QA Manager) Phone: 630 495 9770 ext. 168
Email: rbugielski@elitetest.com
Craig Fanning (EMC Lab Manager) Phone: 630 495 9770 ext. 112
Email: cfanning@elitetest.com
Brandon Lugo (Automotive Team Leader) Phone: 630 495 9770 ext. 163
Email: blugo@elitetest.com
Richard King (FCC/Commercial Team Leader) Phone: 630 495 9770 ext. 123
Email: reking@elitetest.com
Website: www.elitetest.com

ELECTRICAL

Valid To: June 30, 2025

Certificate Number: 1786.01

In recognition of the successful completion of the A2LA Accreditation Program evaluation process, accreditation is granted to this laboratory to perform the following automotive electromagnetic compatibility and other electrical tests:

Test Technology:**Test Method(s)¹:**

Transient Immunity
(Max Voltage 60V/Max current 100A)

ISO 7637-2 (including emissions); ISO 7637-3;
ISO 16750-2:2012, Sections 4.6.3 and 4.6.4;
CS-11979, Section 6.4; CS.00054, Section 5.9;
EMC-CS-2009.1 (CI220); FMC1278 (CI220, CI221, CI222);
GMW 3097, Section 3.5; SAE J1113-11; SAE J1113-12;
ECE Regulation 10.06 Annex 10

Electrostatic Discharge (ESD)
(Up to +/-25kV)

ISO 10605 (2001, 2008);
CS-11979 Section 7.0; CS.00054, Section 5.10;
EMC-CS-2009.1 (CI 280); FMC1278 (CI280); SAE J1113-13;
GMW 3097 Section 3.6

Conducted Emissions

CISPR 25 (2002, 2008), Sections 6.2 and 6.3;
CISPR 25 (2016), Sections 6.3 and 6.4;
CS-11979, Section 5.1; CS.00054, Sections 5.6.1 and 5.6.2;
GMW 3097, Section 3.3.2;
EMC-CS-2009.1 (CE 420); FMC1278 (CE420, CE421,
CE 430, CE440)

(A2LA Cert. No. 1786.01) 08/15/2023



Page 1 of 9

5202 Presidents Court, Suite 220 | Frederick, MD 21703-8515 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org

Test Technology:
Test Method(s)¹:

Radiated Emissions Anechoic
(Up to 6GHz)

CISPR 25 (2002, 2008), Section 6.4;
CISPR 25 (2016), Section 6.5;
CS-11979, Section 5.3; CS.00054, Section 5.6.3;
GMW 3097, Section 3.3.1;
EMC-CS-2009.1 (RE 310); FMC1278 (RE310, RE320);

Vehicle Radiated Emissions

CISPR 12; CISPR 36; ICES-002;
ECE Regulation 10.06 Annex 5

Bulk Current Injection (BCI)
(1 to 400MHz 500mA)

ISO 11452-4; CS-11979, Section 6.1; CS.00054, Section 5.8.1;
GMW 3097, Section 3.4.1; SAE J1113-4;
EMC-CS-2009.1 (RI112); FMC1278 (RI112);
ECE Regulation 10.06 Annex 9

Radiated Immunity Anechoic
(Up to 6GHz and 200V/m)
(Including Radar Pulse 600V/m)

ISO 11452-2;
CS-11979, Section 6.2; CS.00054, Section 5.8.2;
GMW 3097, Section 3.4.2;
EMC-CS-2009.1 (RI114); FMC1278 (RI114); SAE J1113-21;
ECE Regulation 10.06 Annex 9

Radiated Immunity Magnetic Field

ISO 11452-8; FMC 1278 (RI140)

Radiated Immunity Reverb
(360MHz to 6GHz and 100V/m)

ISO/IEC 61000-4-21; GMW 3097, Section 3.4.3;
EMC-CS-2009.1 (RI114); FMC1278 (RI114);
ISO 11452-11

Radiated Immunity
(Portable Transmitters)
(Up to 6GHz and 20W)

ISO 11452-9;
EMC-CS-2009.1 (RI115); FMC1278 (RI115);
GMW 3097, Sec 3.4.4

Vehicle Radiated Immunity (ALSE)

ISO 11451-2; ECE Regulation 10.06 Annex 6

Vehicle Product Specific EMC Standards

EN 14982; EN ISO 13309; ISO 13766; EN 50498;
EC Regulation No. 2015/208; EN 55012

Electrical Loads

ISO 16750-2

Stripline

ISO 11452-5

Transverse Electromagnetic (TEM) Cell

ISO 11452-3

Test Technology:
Test Method(s)¹:
Emissions

Radiated and Conducted
(3m Semi-anechoic chamber,
up to 40 GHz)

47 CFR, FCC Part 15 B (using ANSI C63.4:2014);
47 CFR, FCC Part 18 (using FCC MP-5:1986);
ICES-001; ICES-003; ICES-005;
IEC/CISPR 11, Ed. 4.1 (2004-06); AS/NZS CISPR 11 (2004);
IEC/CISPR 11 Ed 5 (2009-05) + A1 (2010);
KN 11 (2008-5) with RRL Notice No. 2008-3 (May 20, 2008);
CISPR 11; EN 55011; KS C 9811; CNS 13803 (1997, 2003);
CISPR 14-1; EN 55014-1; AS/NZS CISPR 14.1;
CISPR 16-2-1 (2008); CISPR 16-2-1; KS C 9814-1; KN 14-1;
IEC/CISPR 22 (1997);
EN 55022 (1998) + A1(2000);
EN 55022 (1998) + A1(2000) + A2(2003); EN 55022 (2006);
IEC/CISPR 22 (2008-09); AS/NZS CISPR 22 (2004);
AS/NZS CISPR 22, 3rd Edition (2006); KN 22 (up to 6 GHz);
CNS 13438 (up to 6 GHz); VCCI V-3 (up to 6 GHz);
CISPR 32; EN 55032; KS C 9832; KN 32;
ECE Regulation 10.06 Annex 7 (Broadband);
ECE Regulation 10.06 Annex 8 (Narrowband);
ECE Regulation 10.06 Annex 14 (Conducted)

Cellular Radiated Spurious Emissions

ETSI TS 151 010-1 GSM; 3GPP TS 51.010-1, Sec 12;
ETSI TS 134 124 UMTS; 3GPP TS 34.124;
ETSI TS 136 124 LTE; E-UTRA; 3GPP TS 36.124

Current Harmonics

IEC 61000-3-2; IEC 61000-3-12;
EN 61000-3-2; KN 61000-3-2;
KS C 9610-3-2; ECE Regulation 10.06 Annex 11

Flicker and Fluctuations

IEC 61000-3-3; IEC 61000-3-11;
EN 61000-3-3; KN 61000-3-3;
KS C 9610-3-3; ECE Regulation 10.06 Annex 12

Immunity

Electrostatic Discharge

IEC 61000-4-2, Ed. 1.2 (2001);
IEC 61000-4-2 (1995) + A1(1998) + A2(2000);
EN 61000-4-2 (1995); EN 61000-4-2 (2009-05);
KN 61000-4-2 (2008-5);
RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-2; EN 61000-4-2; KN 61000-4-2;
KS C 9610-4-2; IEEE C37.90.3 2001

Radiated Immunity

IEC 61000-4-3 (1995) + A1(1998) + A2(2000);
IEC 61000-4-3, Ed. 3.0 (2006-02);
IEC 61000-4-3, Ed. 3.2 (2010);
KN 61000-4-3 (2008-5);
RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-3; EN 61000-4-3; KN 61000-4-3;
KS C 9610-4-3; IEEE C37.90.2 2004

Test Technology:
Test Method(s)¹:
Immunity (cont'd)

Electrical Fast Transient/Burst

IEC 61000-4-4, Ed. 2.0 (2004-07);
IEC 61000-4-4, Ed. 2.1 (2011);
IEC 61000-4-4 (1995) + A1(2000) + A2(2001);
KN 61000-4-4 (2008-5);
RRL Notice No. 2008-5 (May 20, 2008);
IEC 61000-4-4; EN 61000-4-4; KN 61000-4-4;
KS C 9610-4-4; ECE Regulation 10.06 Annex 15

Surge

IEC 61000-4-5 (1995) + A1(2000);
IEC 61000-4-5, Ed 1.1 (2005-11);
EN 61000-4-5 (1995) + A1(2001);
KN 61000-4-5 (2008-5);
RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-5; EN 61000-4-5; KN 61000-4-5;
KS C 9610-4-5;
IEEE C37.90.1 2012; IEEE STD C62.41.2 2002;
ECE Regulation 10.06 Annex 16

Conducted Immunity

IEC 61000-4-6 (1996) + A1(2000);
IEC 61000-4-6, Ed 2.0 (2006-05);
IEC 61000-4-6 Ed. 3.0 (2008);
KN 61000-4-6 (2008-5);
RRL Notice No. 2008-4 (May 20, 2008);
EN 61000-4-6 (1996) + A1(2001); IEC 61000-4-6;
EN 61000-4-6; KN 61000-4-6; KS C 9610-4-6

Power Frequency Magnetic Field
Immunity (*Down to 3 A/m*)

IEC 61000-4-8 (1993) + A1(2000); IEC 61000-4-8 (2009);
EN 61000-4-8 (1994) + A1(2000);
KN 61000-4-8 (2008-5);
RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-8; EN 61000-4-8; KN 61000-4-8; KS C 9610-4-8

Voltage Dips, Short Interrupts, and Line
Voltage Variations

IEC 61000-4-11, Ed. 2 (2004-03);
KN 61000-4-11 (2008-5);
RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-11; EN 61000-4-11; KN 61000-4-11;
KS C 9610-4-11

Ring Wave

IEC 61000-4-12, Ed. 2 (2006-09);
EN 61000-4-12:2006;
IEC 61000-4-12; EN 61000-4-12; KN 61000-4-12;
IEEE STD C62.41.2 2002

Test Technology:

Generic and Product Specific EMC Standards

Test Method(s)¹:

IEC/EN 61000-6-1; AS/NZS 61000-6-1; KN 61000-6-1;
KS C 9610-6-1; IEC/EN 61000-6-2; AS/NZS 61000-6-2;
KN 61000-6-2; KS C 9610-6-2; IEC/EN 61000-6-3;
AS/NZS 61000-6-3; KN 61000-6-3; KS C 9610-6-3;
IEC/EN 61000-6-4; AS/NZS 61000-6-4; KN 61000-6-4;
KS C 9610-6-4; EN 50130-4; EN 61326-1; EN 50121-3-2;
EN 12895; EN 50270; EN 50491-1; EN 50491-2; EN 50491-3;
EN 55015; EN 60730-1; EN 60945; IEC 60533;
EN 61326-2-6; EN 61800-3; IEC/CISPR 14-2; EN 55014-2;
AS/NZS CISPR 14-2; KN 14-2; KS C 9814-2;
IEC/CISPR 24; AS/NZS CISPR 24; EN 55024; KN 24;
IEC/CISPR 35; AS/NZS CISPR 35; EN 55035; KN 35;
KS C 9835; IEC 60601-1-2; JIS T0601-1-2

TxRx EMC Requirements

EN 301 489-1; EN 301 489-3; EN 301 489-9;
EN 301 489-17; EN 301 489-19; EN 301 489-20

European Radio Test Standards

ETSI EN 300 086-1; ETSI EN 300 086-2;
ETSI EN 300 113-1; ETSI EN 300 113-2;
ETSI EN 300 220-1; ETSI EN 300 220-2;
ETSI EN 300 220-3-1; ETSI EN 300 220-3-2;
ETSI EN 300 330-1; ETSI EN 300 330-2;
ETSI EN 300 440-1; ETSI EN 300 440-2;
ETSI EN 300 422-1; ETSI EN 300 422-2;
ETSI EN 300 328; ETSI EN 301 893;
ETSI EN 301 511; ETSI EN 301 908-1;
ETSI EN 908-2; ETSI EN 908-13;
ETSI EN 303 413; ETSI EN 302 502;
EN 303 340; EN 303 345-2; EN 303 345-3; EN 303 345-4

Canadian Radio Tests

RSS-102 measurement (RF Exposure Evaluation);
RSS-102 measurement (Nerve Stimulation);
SPR-002; RSS-111; RSS-112; RSS-117; RSS-119; RSS-123;
RSS-125; RSS-127; RSS-130; RSS-131; RSS-132; RSS-133;
RSS-134; RSS-135; RSS-137; RSS-139; RSS-140; RSS-141;
RSS-142; RSS-170; RSS-181; RSS-182; RSS-191; RSS-192;
RSS-194; RSS-195; RSS-196; RSS-197; RSS-199; RSS-210;
RSS-211; RSS-213; RSS-215; RSS-216; RSS-220; RSS-222;
RSS-236; RSS-238; RSS-243; RSS-244; RSS-247; RSS-248;
RSS-251; RSS-252; RSS-287; RSS-288; RSS-310; RSS-GEN

Mexico Radio Tests

IFT-008-2015; NOM-208-SCFI-2016

Japan Radio Tests

Radio Law No. 131, Ordinance of MPT No. 37, 1981,
MIC Notification No. 88:2004, Table No. 22-11;
ARIB STD-T66, Regulation 18

Taiwan Radio Tests

LP-0002 (July 15, 2020)

Test Technology:
Test Method(s)¹:

Australia/New Zealand Radio Tests

AS/NZS 4268; Radiocommunications (Short Range Devices) Standard (2014)

Hong Kong Radio Tests

HKCA 1039 Issue 6;
HKCA 1042;
HKCA 1033 Issue 7;
HKCA 1061;
HKCA 1008;
HKCA 1043;
HKCA 1057;
HKCA 1073

Korean Radio Test Standards

KN 301 489-1; KN 301 489-3; KN 301 489-9;
KN 301 489-17; KN 301 489-52; KS X 3124; KS X 3125;
KS X 3130; KS X 3126; KS X 3129

Vietnam Radio Test Standards

QCVN 47:2015/BTTTT; QCVN 54:2020/BTTTT;
QCVN 55:2011/BTTTT; QCVN 65:2013/BTTTT;
QCVN 73:2013/BTTTT; QCVN 74:2020/BTTTT;
QCVN 112:2017/BTTTT; QCVN 117:2020/BTTTT

Vietnam EMC Test Standards

QCVN 18:2014/BTTTT; QCVN 86:2019/BTTTT;
QCVN 96:2015/BTTTT; QCVN 118:2018/BTTTT

*Unlicensed Radio Frequency Devices
(3 Meter Semi-Anechoic Room)*

47 CFR FCC Part 15C, 15D, 15E, 15F, 15G, 15H
(using ANSI C63.10:2013, ANSI C63.17:2013 and
FCC KDB 905462 D02 (v02))

Licensed Radio Service Equipment

47 CFR FCC Parts 20, 22, 24, 25, 27, 30, 73, 74, 80, 87,
90, 95, 96, 97, 101 (using ANSI/TIA-603-E,
TIA-102.CAAA-E, ANSI C63.26:2015)

OIA (Over the Air) Performance

GSM, GPRS, EGPRS
UMTS (W-CDMA)
LTE including CAT M1
A-GPS for UMTS/GSM
LTS A-GPS, A-GLONASS,
SIB8/SIB16
Large Device/Laptop/Tablet Testing
Integrated Device Testing
WiFi 802.11 a/b/g/n/a

CTIA Test Plan for Wireless Device Over-the-Air
Performance (Method for Measurement for Radiated Power
and Receiver Performance) V3.8.2;
CTIA Test Plan for RF Performance Evaluation of WiFi
Mobile Converged Devices V2.1.0

Test Technology:
Test Method(s)¹:
Electrical Measurements and Simulation
AC Voltage / Current

(1mV to 5kV) 60 Hz
(0.1V to 250V) up to 500 MHz
(1μA to 150A) 60 Hz

FAA AC 150/5345-10H;
FAA AC 150/5345-43J;
FAA AC 150/5345-44K;
FAA AC 150/5345-46E;
FAA AC 150/5345-47C;
FAA EB 67D

DC Voltage / Current

(1mV to 15 kV) / (1μA to 10A)

Power Factor / Efficiency / Crest Factor

(Power to 30kW)

Resistance

(1mΩ to 4000MΩ)

Surge

(Up to 10 kV / 5 kA) (Combination
Wave and Ring Wave)

On the following products and materials:

Telecommunications Terminal Equipment (TTE), Radio Equipment, Network Equipment, Information Technology Equipment (ITE), Automotive Electronic Equipment, Automotive Hybrid Electronic Devices, Maritime Navigation and Radio Communication Equipment and Systems, Vehicles, Boats and Internal Combustion Engine Driven Devices, Automotive, Aviation, and General Lighting Products, Medical Electrical Equipment, Motors, Industrial, Scientific and Medical (ISM) Radio-Frequency Equipment, Household Appliances, Electric Tools, Low-voltage Switchgear and Control gear, Programmable Controllers, Electrical Equipment for Measurement, Control and Laboratory Use, Base Materials, Power and Data Transmission Cables and Connectors

¹ When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA R101 - General Requirements - Accreditation of ISO-IEC 17025 Laboratories.

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1²

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
<u>Unintentional Radiators</u>		
Part 15B	ANSI C63.4:2014	40000
<u>Industrial, Scientific, and Medical Equipment</u>		
Part 18	FCC MP-5 (February 1986)	40000
<u>Intentional Radiators</u>		
Part 15C	ANSI C63.10:2013	40000

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1²

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
<u>Unlicensed Personal Communication Systems Devices</u> Part 15D	ANSI C63.17:2013	40000
<u>U-NII without DFS Intentional Radiators</u> Part 15E	ANSI C63.10:2013	40000
<u>U-NII with DFS Intentional Radiators</u> Part 15E	FCC KDB 905462 D02 (v02)	40000
<u>UWB Intentional Radiators</u> Part 15F	ANSI C63.10:2013	40000
<u>BPL Intentional Radiators</u> Part 15G	ANSI C63.10:2013	40000
<u>White Space Device Intentional Radiators</u> Part 15H	ANSI C63.10:2013	40000
<u>Commercial Mobile Services (FCC Licensed Radio Service Equipment)</u> Parts 22 (cellular), 24, 25 (below 3 GHz), and 27	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000
<u>General Mobile Radio Services (FCC Licensed Radio Service Equipment)</u> Parts 22 (non-cellular), 90 (below 3 GHz), 95, 97, and 101 (below 3 GHz)	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000
<u>Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment)</u> Part 96	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000
<u>Maritime and Aviation Radio Services</u> Parts 80 and 87	ANSI/TIA-603-E; ANSI C63.26:2015	40000
<u>Microwave and Millimeter Bands Radio Services</u> Parts 25, 30, 74, 90 (above 3 GHz), 97 (above 3 GHz), and 101	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000

(A2LA Cert. No. 1786.01) 08/15/2023



Page 8 of 9

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1²

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
<u>Broadcast Radio Services</u> Parts 73 and 74 (below 3 GHz)	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000
<u>Signal Boosters</u> Part 20 (Wideband Consumer Signal Boosters, Provider-specific signal boosters, and Industrial Signal Boosters) Section 90.219	ANSI C63.26:2015	40000

² Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (<https://apps.fcc.gov/oetcf/eas/>) for a listing of FCC approved laboratories.



Accredited Laboratory

A2LA has accredited

ELITE ELECTRONIC ENGINEERING INC.

Downers Grove, IL

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *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 April 2017).



Presented this 15th day of August 2023.

A blue ink signature of Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1786.01
Valid to June 30, 2025

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.