

OCCUPIED BANDWIDTH



XMH 2020.12.30.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Block - DC	Fairview Microwave	SD3379	AMZ	2020-11-04	2021-11-04
Attenuator	Fairview Microwave	18B5W-26	RFY	2020-06-03	2021-06-03
Generator - Signal	Agilent	N5183A	TIK	2019-04-30	2022-04-30
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2021-04-16	2022-04-16
Cable	Micro-Coax	D150A-1-0720-200	MNL	2020-09-14	2021-09-14

TEST DESCRIPTION

The transmit frequencies and data rates listed in the datasheet were measured in each band utilized by the radio. The transmit power was set to its default maximum.

Per FCC KDB 789033 D02 UNII Test Procedures, the spectrum analyzer settings were as follows:

- RBW = 100 kHz
- VBW = $\geq 3 \times$ RBW
- Detector = Peak
- Trace mode = max hold
- Sweep = auto couple

The spectrum analyzer occupied bandwidth measurement function was then used to measure the 6 dB emission bandwidth.

OCCUPIED BANDWIDTH



TSTx 2019.08.30.0 XMR 2020.12.30.0

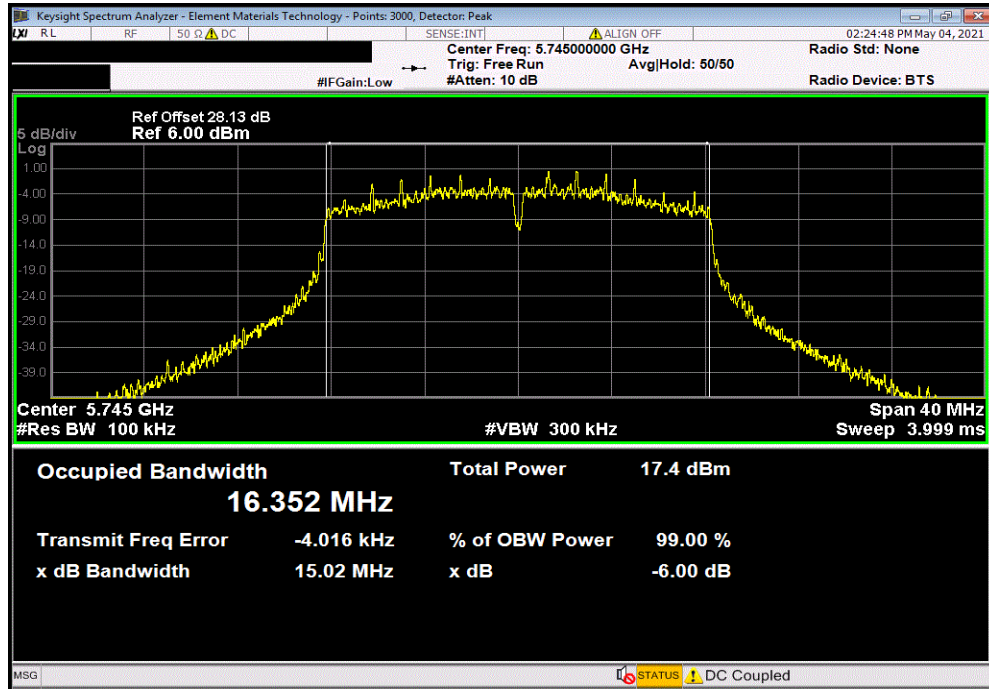
EUT: Zoll R-Series Data Comm II C2PC		Work Order: LGPD0258	
Serial Number: LB133400105		Date: 4-May-21	
Customer: Logic PD, Inc.		Temperature: 22.5 °C	
Attendees: Eric Fritz		Humidity: 30.7% RH	
Project: None		Barometric Pres.: 1024 mbar	
Tested by: Andrew Rogstad		Power: 3.7VDC	
		Job Site: MN08	
TEST SPECIFICATIONS		Test Method	
FCC 15.407:2021		ANSI C63.10:2013	
COMMENTS			
Reference level offset includes measurement cable, attenuator, and DC block.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature <i>Andrew Rogstad</i>	
		Value	Limit (>)
Result			
5725 - 5785 MHz Band			
Low Channel, Ch 149 - 5745 MHz			
	802.11(a) 6 Mbps	15.024 MHz	500 kHz
	802.11(a) 36 Mbps	16.479 MHz	500 kHz
	802.11(a) 54 Mbps	16.471 MHz	500 kHz
	802.11(n) MCS0	15.109 MHz	500 kHz
	802.11(n) MCS7	17.737 MHz	500 kHz
Mid Channel, Ch 157 - 5785 MHz			
	802.11(a) 6 Mbps	15.114 MHz	500 kHz
	802.11(a) 36 Mbps	16.476 MHz	500 kHz
	802.11(a) 54 Mbps	16.481 MHz	500 kHz
	802.11(n) MCS0	15.052 MHz	500 kHz
	802.11(n) MCS7	17.68 MHz	500 kHz
High Channel, Ch 165 - 5825 MHz			
	802.11(a) 6 Mbps	15.084 MHz	500 kHz
	802.11(a) 36 Mbps	16.478 MHz	500 kHz
	802.11(a) 54 Mbps	16.486 MHz	500 kHz
	802.11(n) MCS0	15.084 MHz	500 kHz
	802.11(n) MCS7	17.702 MHz	500 kHz

OCCUPIED BANDWIDTH

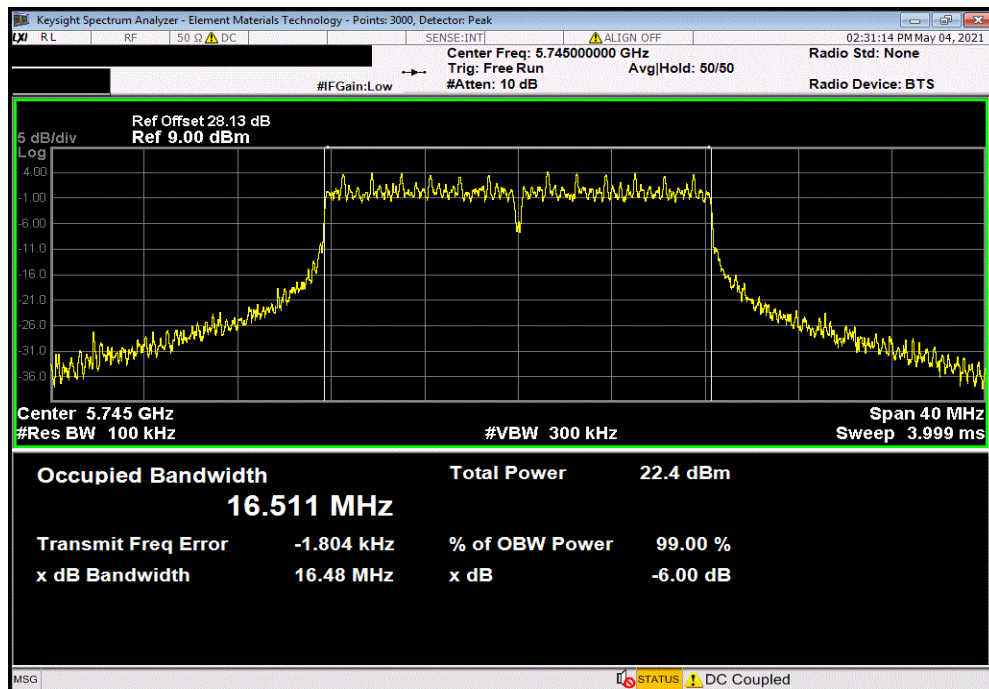


TbTx 2019.08.30.0 XMt 2020.12.30.0

5725 - 5785 MHz Band, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 6 Mbps						
Value				Limit	Result	
				(>)		
			15.024 MHz	500 kHz	Pass	



5725 - 5785 MHz Band, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 36 Mbps						
Value				Limit	Result	
				(>)		
			16.479 MHz	500 kHz	Pass	

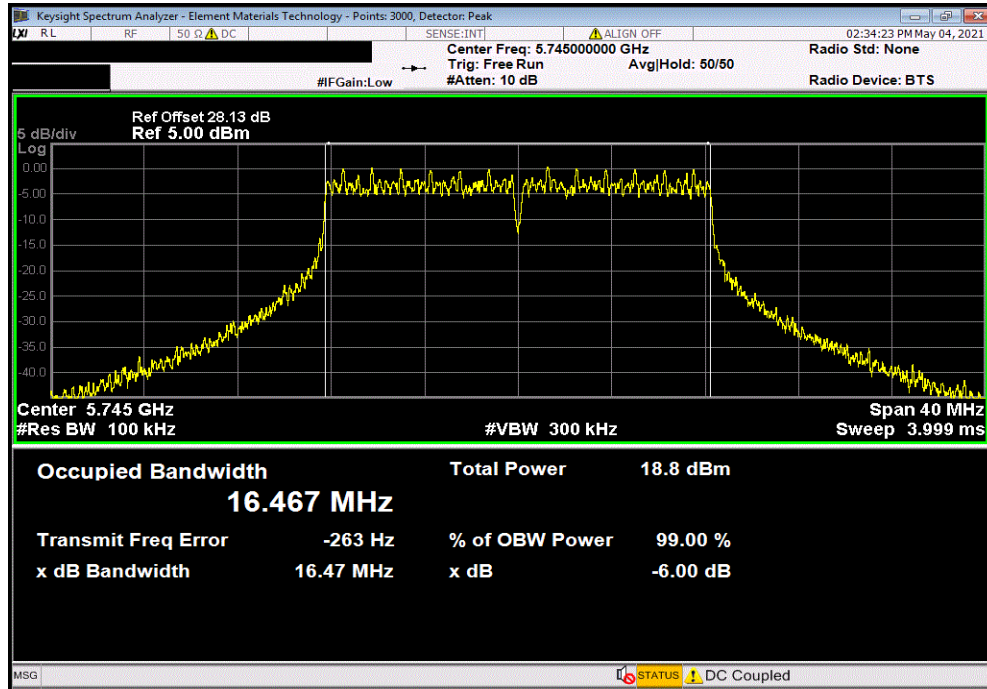


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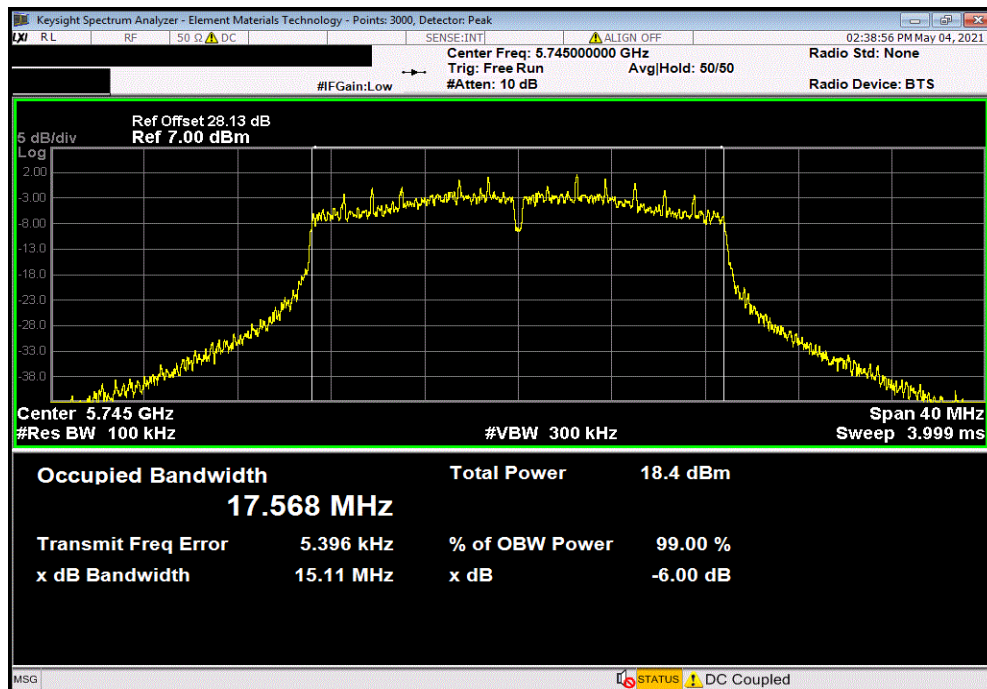


TbTx 2019.08.30.0 XbTx 2020.12.30.0

5725 - 5785 MHz Band, Low Channel, Ch 149 - 5745 MHz, 802.11(a) 54 Mbps						
Value				Limit	Result	
				(>)		
			16.471 MHz	500 kHz	Pass	



5725 - 5785 MHz Band, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS0						
Value				Limit	Result	
				(>)		
			15.109 MHz	500 kHz	Pass	

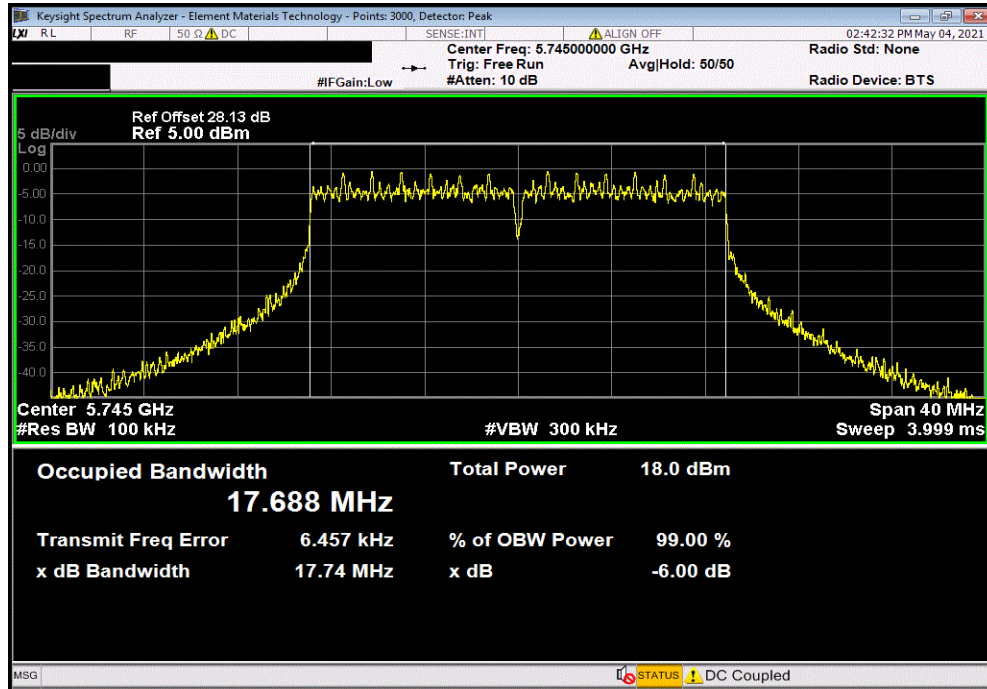


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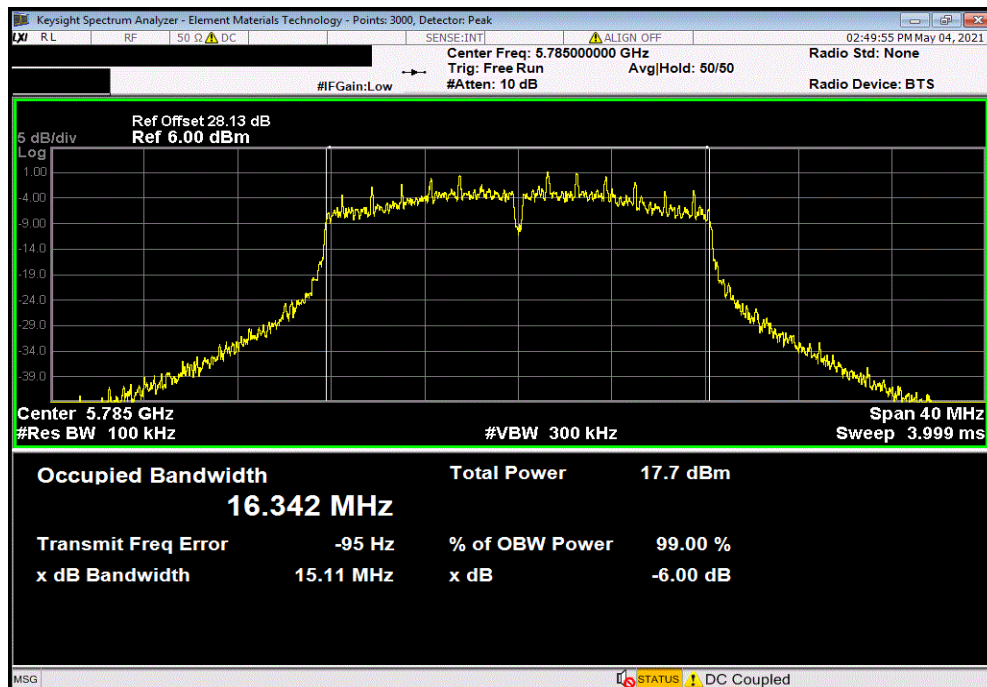


TbTx 2019.08.30.0 XbTx 2020.12.30.0

5725 - 5785 MHz Band, Low Channel, Ch 149 - 5745 MHz, 802.11(n) MCS7						
Value				Limit	Result	
				(>)		
			17.737 MHz	500 kHz	Pass	



5725 - 5785 MHz Band, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 6 Mbps						
Value				Limit	Result	
				(>)		
			15.114 MHz	500 kHz	Pass	

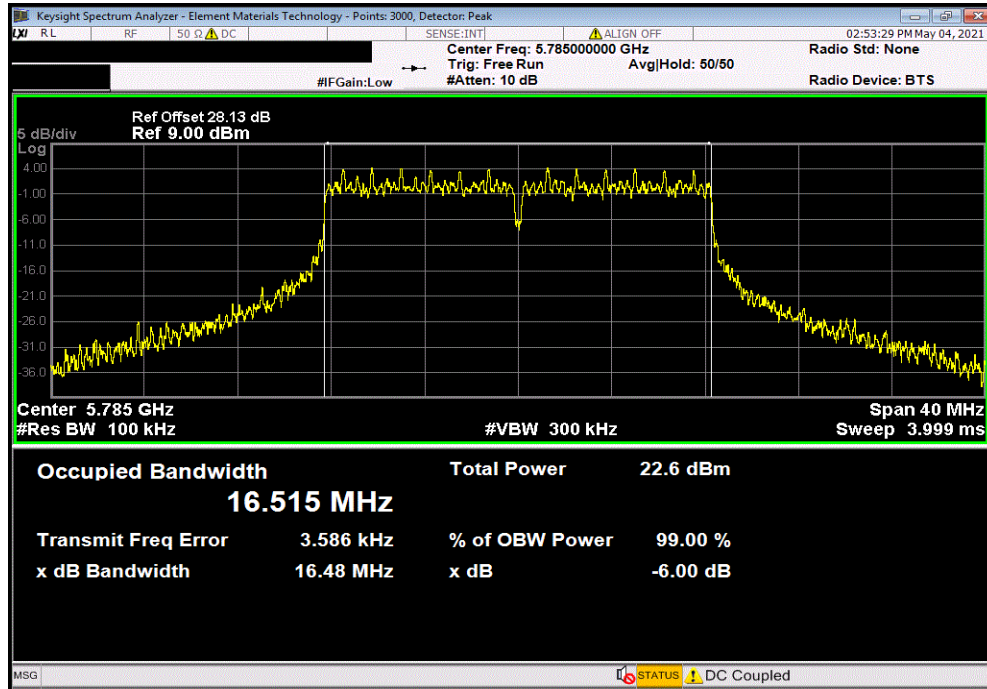


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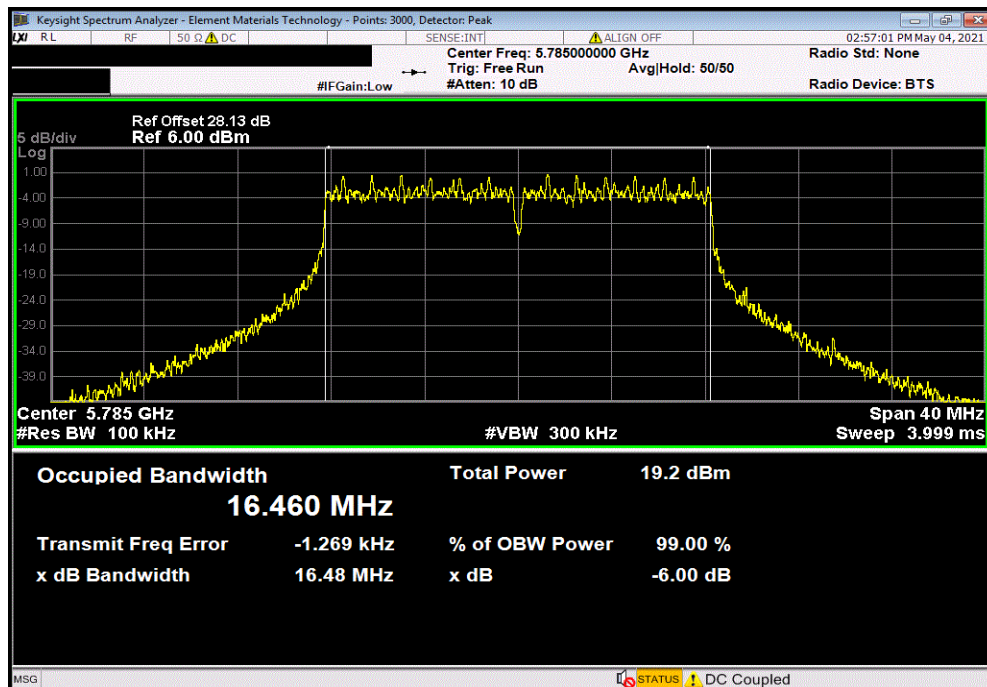


TbTx 2019.08.30.0 XbTx 2020.12.30.0

5725 - 5785 MHz Band, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 36 Mbps						
Value				Limit	Result	
				(>)		
			16.476 MHz	500 kHz	Pass	



5725 - 5785 MHz Band, Mid Channel, Ch 157 - 5785 MHz, 802.11(a) 54 Mbps						
Value				Limit	Result	
				(>)		
			16.481 MHz	500 kHz	Pass	

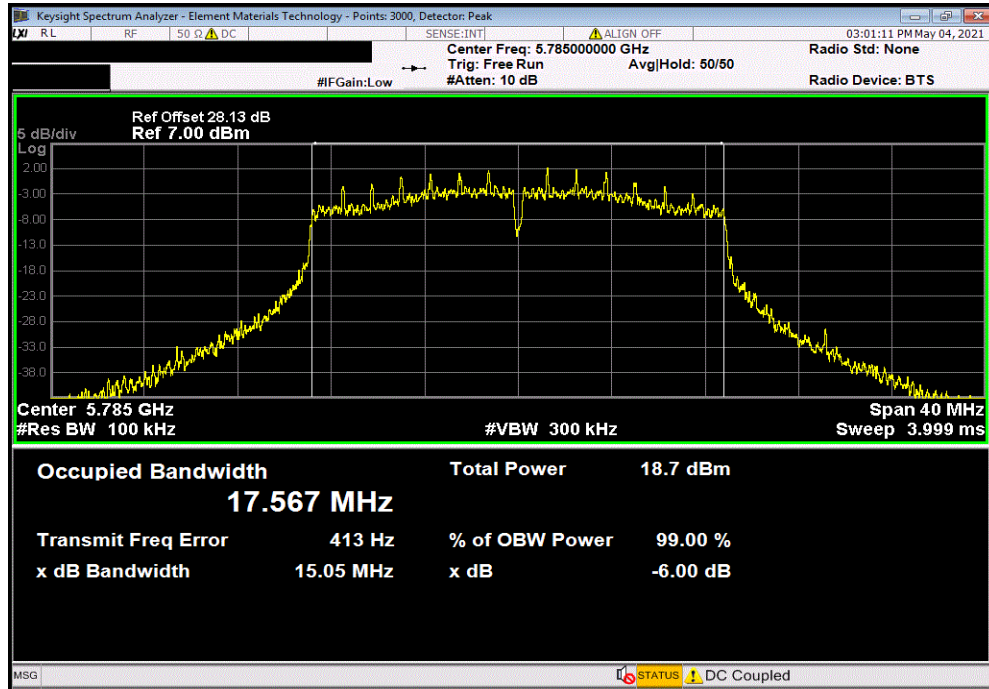


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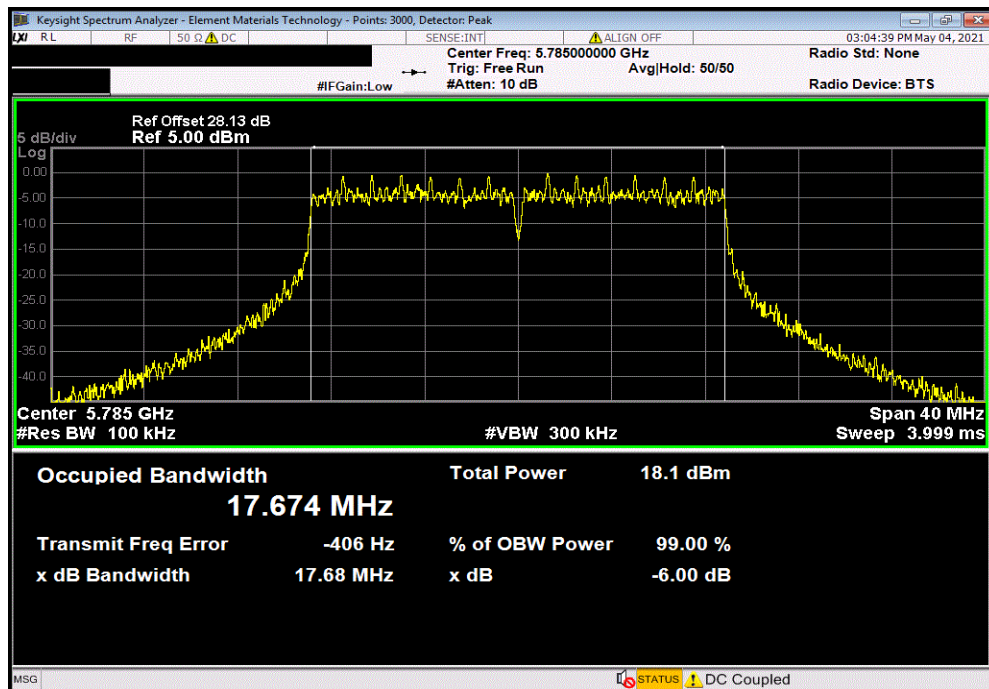


TbTx 2019.08.30.0 XMt 2020.12.30.0

5725 - 5785 MHz Band, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS0						
Value				Limit	Result	
				(>)		
			15.052 MHz	500 kHz	Pass	



5725 - 5785 MHz Band, Mid Channel, Ch 157 - 5785 MHz, 802.11(n) MCS7						
Value				Limit	Result	
				(>)		
			17.68 MHz	500 kHz	Pass	

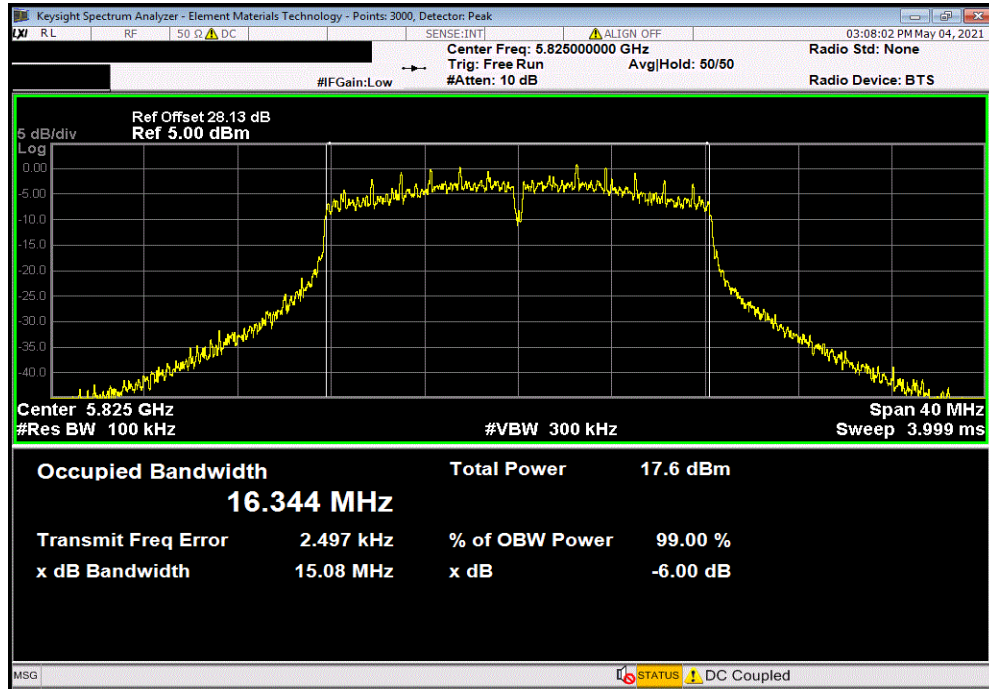


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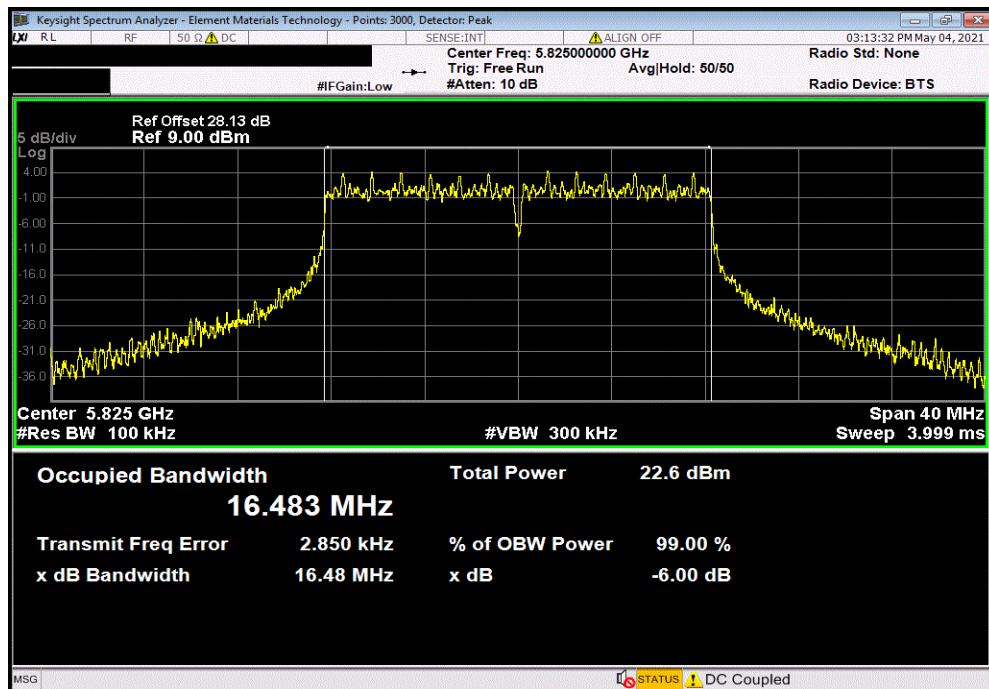


TbTx 2019.08.30.0 XMR 2020.12.30.0

5725 - 5785 MHz Band, High Channel, Ch 165 - 5825 MHz, 802.11(a) 6 Mbps						
Value				Limit	Result	
				(>)		
			15.084 MHz	500 kHz	Pass	



5725 - 5785 MHz Band, High Channel, Ch 165 - 5825 MHz, 802.11(a) 36 Mbps						
Value				Limit	Result	
				(>)		
			16.478 MHz	500 kHz	Pass	

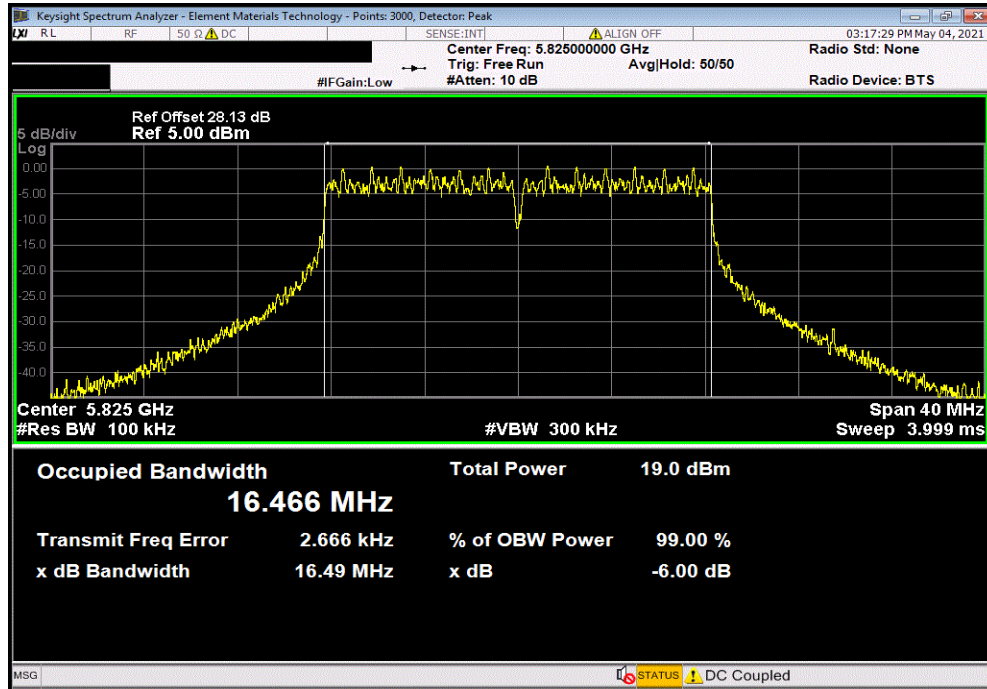


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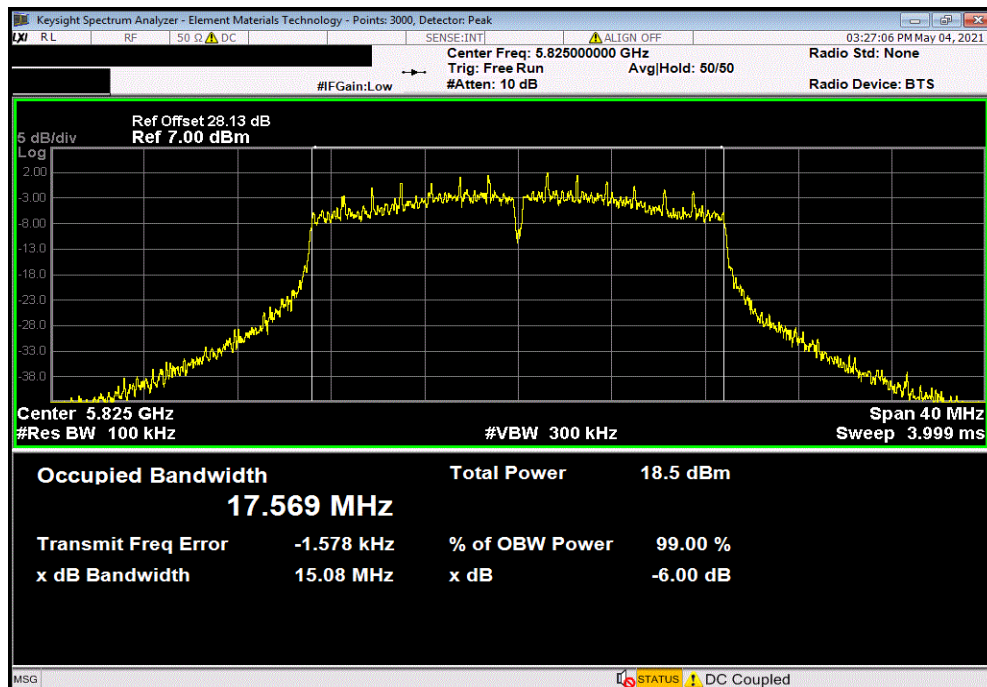


TbTx 2019.08.30.0 XbTx 2020.12.30.0

5725 - 5785 MHz Band, High Channel, Ch 165 - 5825 MHz, 802.11(a) 54 Mbps						
Value				Limit	Result	
				(>)		
			16.486 MHz	500 kHz	Pass	



5725 - 5785 MHz Band, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS0						
Value				Limit	Result	
				(>)		
			15.084 MHz	500 kHz	Pass	

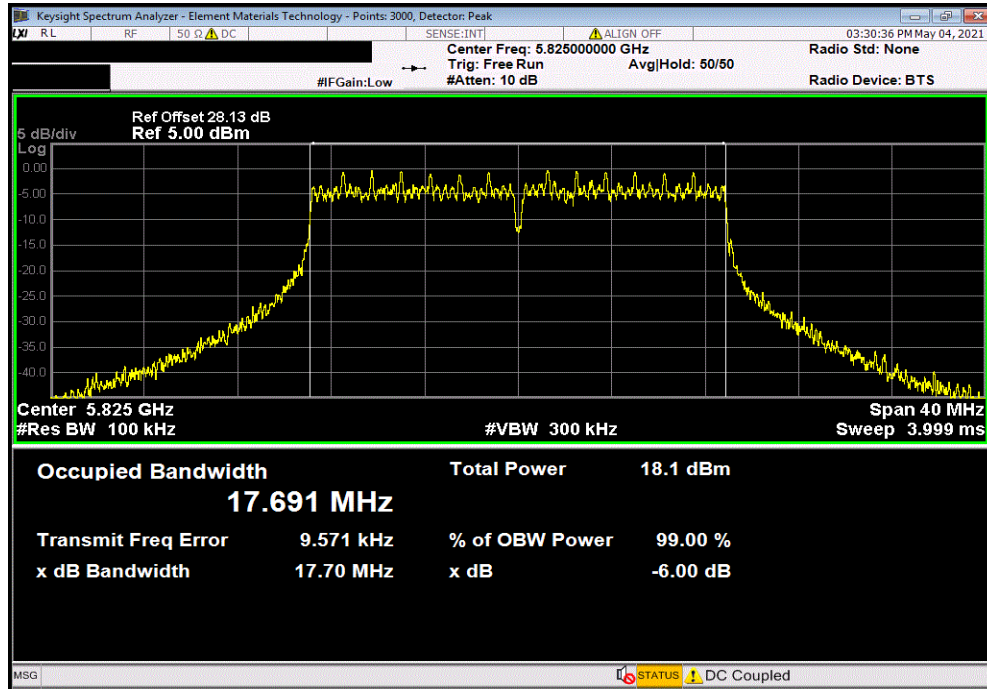


OCCUPIED BANDWIDTH



TbTtX 2019.08.30.0 XMR 2020.12.30.0

5725 - 5785 MHz Band, High Channel, Ch 165 - 5825 MHz, 802.11(n) MCS7						
Value				Limit	Result	
				(>)		
			17.702 MHz	500 kHz	Pass	



SPURIOUS RADIATED EMISSIONS



PSA-ESCI 2021.03.17.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

Transmitting WiFi channel 64 (5320 MHz), 6 Mbps, 20 MHz bandwidth
Transmitting WiFi channel 48 (5240 MHz), channel 116 (5580 MHz), and channel 140 (5700 MHz); 36 Mbps; 20 MHz bandwidth

POWER SETTINGS INVESTIGATED

3.7VDC

CONFIGURATIONS INVESTIGATED

LGPD0258 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency 8200 MHz Stop Frequency 18000 MHz

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	2021-02-01	2022-02-01
Amplifier - Pre-Amplifier	L-3 Narda-MITEQ	AMF-6F-12001800-30-10P	PAP	2021-02-01	2022-02-01
Antenna - Standard Gain	ETS-Lindgren	3160-07	AJJ	NCR	NCR
Antenna - Standard Gain	ETS-Lindgren	3160-08	AJP	NCR	NCR
Cable	Element	Standard Gain Cable	MNW	2021-02-01	2022-02-01
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2021-04-16	2022-04-16
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	2021-03-10	2022-03-10
Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNO	2021-05-21	2022-05-21
Antenna - Double Ridge	ETS Lindgren	3115	AJA	2019-08-28	2021-08-28

TEST DESCRIPTION

The highest gain antenna of each type to be used with the EUT was tested. The EUT was configured for the required transmit frequencies in each operational band and the modes as showed in the data sheets.

For each configuration, the spectrum was scanned throughout the specified range as part of the exploratory investigation of the emissions. These "pre-scans" are not included in the report. Final measurements on individual emissions were then made and included in this test report.

The individual emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis if required, and adjusting the measurement antenna height and polarization (per ANSI C63.10). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector
PK = Peak Detector
AV = RMS Detector

Measurements were made to satisfy the specific requirements of the test specification for out of band emissions as well as the restricted band requirements.

If there are no detectable emissions above the noise floor, the data included may show noise floor measurements for reference only.

Measurements at the edges of the allowable band may be presented in an alternative method as provided for in the ANSI C63.10 Marker-Delta method. This method involves performing an in-band fundamental measurement followed by a screen capture of the fundamental and out-of-band emission using reduced measurement instrumentation bandwidths. The amplitude delta measured on this screen capture is applied to the fundamental emission value to show the out-of-band emission level as applied to the limit.

SPURIOUS RADIATED EMISSIONS



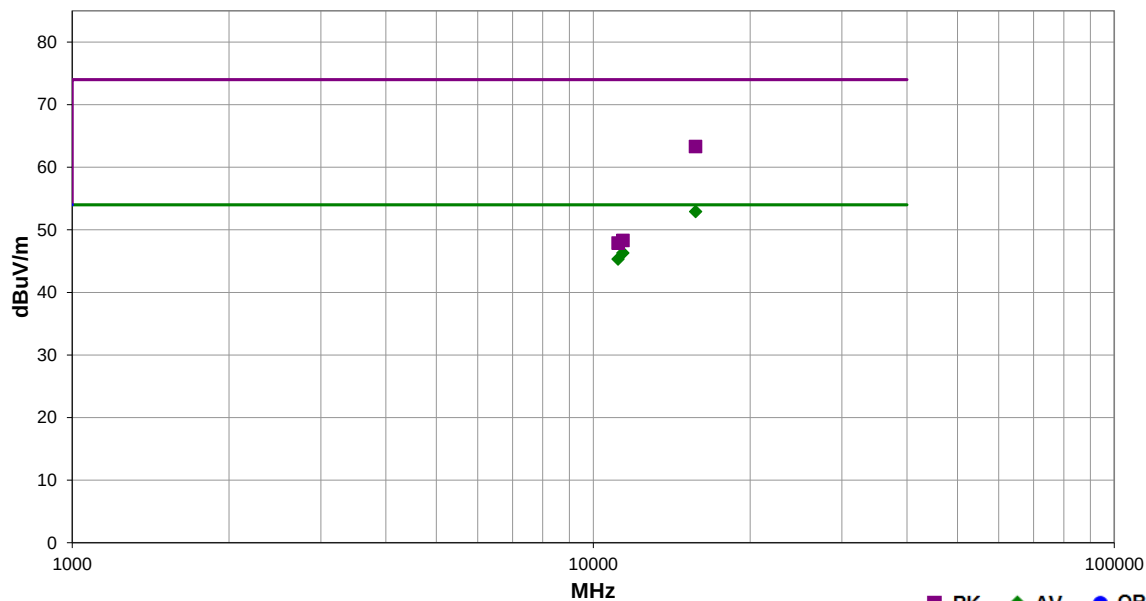
EmiRS 2021.05.14.0

PSA-ESCI 2021.03.17.0

Work Order:	LGPD0258	Date:	2021-05-21	
Project:	None	Temperature:	21.7 °C	
Job Site:	MN09	Humidity:	57.4% RH	
Serial Number:	LB211400035	Barometric Pres.:	1019.9 mbar	
		Tested by:		Andrew Rogstad
EUT:	Zoll R-Series Data Comm II C2PC			
Configuration:	3			
Customer:	Logic PD, Inc.			
Attendees:	Eric Fritz			
EUT Power:	3.7VDC			
Operating Mode:	Transmitting WiFi channel 48 (5240 MHz), channel 116 (5580 MHz), and channel 140 (5700 MHz); 36 Mbps; 20 MHz bandwidth			
Deviations:	None			
Comments:	See data comments for EUT orientation and transmit channel.			

Test Specifications	Test Method
FCC 15.407:2021	ANSI C63.10:2013

Run #	110	Test Distance (m)	3	Antenna Height(s)	1 to 4(m)	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Duty Cycle Correction Factor (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
15720.190	33.7	18.5	1.5	325.0	0.7	0.0	Horz	AV	0.0	52.9	54.0	-1.1	EUT on side, Ch 48, 36 Mbps
11399.960	50.8	-5.2	1.5	173.0	0.7	0.0	Vert	AV	0.0	46.3	54.0	-7.7	EUT vert, Ch 140, 36 Mbps
11160.010	50.7	-6.1	2.2	163.0	0.7	0.0	Vert	AV	0.0	45.3	54.0	-8.7	EUT vert, Ch 116, 36 Mbps
15717.970	44.8	18.5	1.5	325.0	0.0	0.0	Horz	PK	0.0	63.3	74.0	-10.7	EUT on side, Ch 48, 36 Mbps
11400.040	53.5	-5.2	1.5	173.0	0.0	0.0	Vert	PK	0.0	48.3	74.0	-25.7	EUT vert, Ch 140, 36 Mbps
11159.960	54.0	-6.1	2.2	163.0	0.0	0.0	Vert	PK	0.0	47.9	74.0	-26.1	EUT vert, Ch 116, 36 Mbps

SPURIOUS RADIATED EMISSIONS

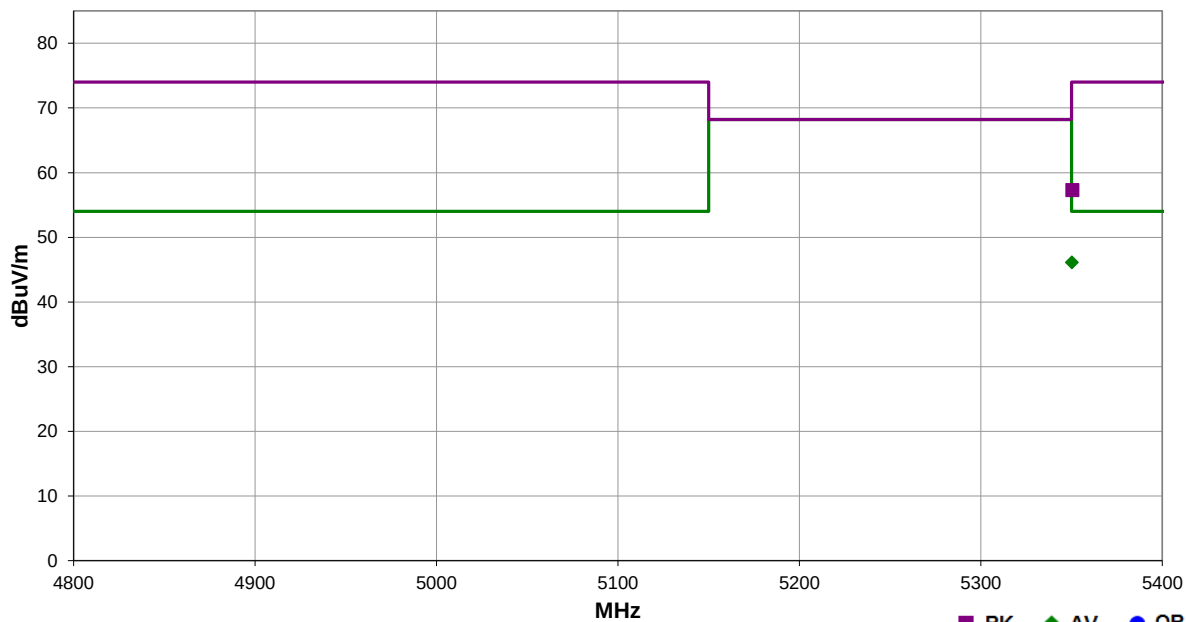


EmiR5 2021.05.14.0 PSA-ESCI 2021.03.17.0

Work Order:	LGPD0258	Date:	2021-05-21	
Project:	None	Temperature:	21.7 °C	
Job Site:	MN09	Humidity:	57.4% RH	
Serial Number:	LB211400035	Barometric Pres.:	1019.9 mbar	
Tested by: Andrew Rogstad				
EUT:	Zoll R-Series Data Comm II C2PC			
Configuration:	3			
Customer:	Logic PD, Inc.			
Attendees:	Eric Fritz			
EUT Power:	3.7VDC			
Operating Mode:	Transmitting WiFi channel 64 (5320 MHz), 6 Mbps, 20 MHz bandwidth			
Deviations:	None			
Comments:	See data comments for EUT orientation.			

Test Specifications	Test Method
FCC 15.407:2021, FCC 15.205:2021	ANSI C63.10:2013

Run #	125	Test Distance (m)	0.5	Antenna Height(s)	1.65(m)	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Duty Cycle Correction Factor (dB)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
5350.247	25.8	35.8	1.65	276.0	0.1	0.0	Vert	AV	-15.6	46.1	54.0	-7.9	EUT vert, Ch 64, 6 Mbps
5350.447	37.1	35.8	1.65	276.0	0.0	0.0	Vert	PK	-15.6	57.3	74.0	-16.7	EUT vert, Ch 64, 6 Mbps

SPURIOUS RADIATED EMISSIONS



PSA-ESCI 2021.03.17.0

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MODES OF OPERATION

Transmitting WiFi channel 165 (5825 MHz), 6 Mbps, 20 MHz bandwidth
Transmitting WiFi channel 149 (5745 MHz), 6 Mbps, 20 MHz bandwidth
Transmitting WiFi channels 36, 64, and 100 (5180, 5320, and 5500 MHz), 20 MHz bandwidth at 6, 36, 54 Mbps, MCS0, and MCS7.
Transmitting WiFi channels 36, 48, 52, 64, 100, 116, 140, 149, 157, and 165 (5180, 5240, 5260, 5320, 5500, 5580, 5700, 5745, 5785, and 5825 MHz) at 6, 36, 54 Mbps, MCS0, and MCS7. 20 MHz bandwidth.
Transmitting WiFi channels 36, 48, 52, 64, 100, 116, 140, 149, 157, and 165 (5180, 5240, 5260, 5320, 5500, 5580, 5700, 5745, 5785, and 5825 MHz) at 6Mbps. 20 MHz bandwidth.

POWER SETTINGS INVESTIGATED

3.7VDC

CONFIGURATIONS INVESTIGATED

LGPD0258 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	40000 MHz
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SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Cable	Fairview Microwave	FMCA1975-200CM	MN1	2020-08-10	2021-08-10
Amplifier - Pre-Amplifier	Miteq	JSW45-26004000-40-5P	AVR	2020-08-10	2021-08-10
Antenna	A.H. Systems, Inc.	SAS-588	AJO	NCR	NCR
Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNP	2020-09-11	2021-09-11
Amplifier - Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	2020-09-11	2021-09-11
Antenna - Standard Gain	ETS Lindgren	3160-09	AHG	NCR	NCR
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAQ	2020-05-07	2021-05-07
Amplifier - Pre-Amplifier	L-3 Narda-MITEQ	AMF-6F-12001800-30-10P	PAP	2021-02-01	2022-02-01
Cable	Element	Biconilog Cable	MNX	2021-02-01	2022-02-01
Cable	Element	Standard Gain Cable	MNW	2021-02-01	2022-02-01
Cable	Element	Double Ridge Guide Horn Cables	MNV	2021-02-01	2022-02-01
Filter - Band Reject	Micro-Tronics	BRC50705	LFS	2020-09-21	2021-09-21
Filter - Band Reject	Micro-Tronics	BRC50704	LFR	2020-09-21	2021-09-21
Filter - Band Reject	Micro-Tronics	BRC50703	LFQ	2020-09-21	2021-09-21
Filter - Low Pass	Micro-Tronics	LPM50004	HGG	2020-09-14	2021-09-14
Antenna - Biconilog	Teseq	CBL 6141B	AYD	2020-02-05	2022-02-05
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	2021-02-01	2022-02-01
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	2021-02-01	2022-02-01
Amplifier - Pre-Amplifier	Miteq	AM-1064-9079 and SA18E-10	AOO	2021-02-01	2022-02-01
Antenna - Standard Gain	ETS-Lindgren	3160-08	AJP	NCR	NCR
Antenna - Standard Gain	ETS-Lindgren	3160-07	AJJ	NCR	NCR
Antenna - Double Ridge	ETS Lindgren	3115	AIB	2020-09-03	2022-09-03

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

TEST DESCRIPTION

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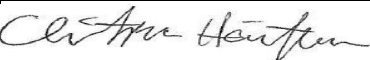
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SPURIOUS RADIATED EMISSIONS



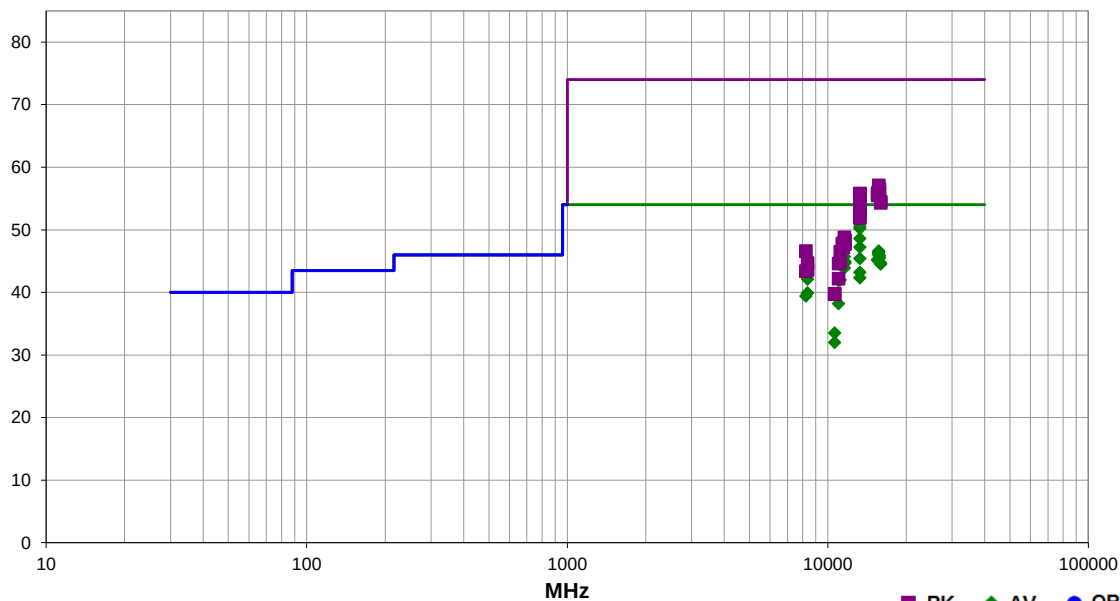
EmiRS 2021.01.08.0

PSA-ESCI 2021.03.17.0

Work Order:	LGPD0258	Date:	2021-05-05	
Project:	None	Temperature:	22.1 °C	
Job Site:	MN09	Humidity:	31.9% RH	
Serial Number:	LB211400035	Barometric Pres.:	1024 mbar	
		Tested by:		Christopher Heintzelman
EUT:	Zoll R-Series Data Comm II C2PC			
Configuration:	3			
Customer:	Logic PD, Inc.			
Attendees:	Eric Fritz			
EUT Power:	3.7VDC			
Operating Mode:	Transmitting WiFi channels 36, 48, 52, 64, 100, 116, 140, 149, 157, and 165 (5180, 5240, 5260, 5320, 5500, 5580, 5700, 5745, 5785, and 5825 MHz) at 6, 36, 54 Mbps, MCS0, and MCS7. 20 MHz bandwidth.			
Deviations:	None			
Comments:	See comments for datarate and EUT orientation. The cardboard fixture was compared to Styrofoam and the results were determined to be equivalent.			

Test Specifications	Test Method
FCC 15.407:2021	ANSI C63.10:2013

Run #	55	Test Distance (m)	3	Antenna Height(s)	1 to 4(m)	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Duty Cycle Correction Factor (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
13300.030	35.6	14.8	1.7	205.0	1.1	0.0	Vert	AV	0.0	51.5	54.0	-2.5	EUT Vert, Ch 64, MCS7
13300.000	35.5	14.8	1.7	205.0	0.9	0.0	Vert	AV	0.0	51.2	54.0	-2.8	EUT Vert, Ch 64, 54 Mbps
13300.030	35.5	14.8	1.7	205.0	0.7	0.0	Vert	AV	0.0	51.0	54.0	-3.0	EUT Vert, Ch 64, 36 Mbps
13300.000	35.6	14.8	1.7	205.0	0.1	0.0	Vert	AV	0.0	50.5	54.0	-3.5	EUT Vert, Ch 64, MCS0
13300.030	35.3	14.8	1.6	203.0	0.1	0.0	Vert	AV	0.0	50.2	54.0	-3.8	EUT Vert, Ch 64, 6 Mbps
13300.040	33.7	14.8	1.5	201.0	0.1	0.0	Horz	AV	0.0	48.6	54.0	-5.4	EUT On Side, Ch 64, 6 Mbps
13300.040	32.3	14.8	1.7	133.0	0.1	0.0	Horz	AV	0.0	47.2	54.0	-6.8	EUT Vert, Ch 64, 6 Mbps
15720.080	28.0	18.5	1.5	142.0	0.1	0.0	Vert	AV	0.0	46.6	54.0	-7.4	EUT Vert, Ch 48, 6 Mbps
15720.020	27.8	18.5	2.3	252.0	0.1	0.0	Horz	AV	0.0	46.4	54.0	-7.6	EUT On Side, Ch 48, 6 Mbps
15664.230	27.5	18.7	1.5	92.0	0.1	0.0	Vert	AV	0.0	46.3	54.0	-7.7	EUT Vert, Ch 36, 6 Mbps
15663.890	27.4	18.7	1.0	211.0	0.1	0.0	Horz	AV	0.0	46.2	54.0	-7.8	EUT On Side, Ch 36, 6 Mbps
15721.650	27.4	18.5	1.5	67.0	0.1	0.0	Vert	AV	0.0	46.0	54.0	-8.0	EUT Vert, Ch 48, 6 Mbps
11400.010	50.9	-5.2	2.8	205.0	0.1	0.0	Horz	AV	0.0	45.8	54.0	-8.2	EUT On Side, Ch 140, 6 Mbps
15779.990	27.6	18.1	1.5	161.0	0.1	0.0	Vert	AV	0.0	45.8	54.0	-8.2	EUT Vert, Ch 52, 6 Mbps
11399.930	50.8	-5.2	1.9	184.0	0.1	0.0	Vert	AV	0.0	45.7	54.0	-8.3	EUT Vert, Ch 140, 6 Mbps
11570.010	49.8	-4.2	1.7	184.0	0.1	0.0	Vert	AV	0.0	45.7	54.0	-8.3	EUT Vert, Ch 157, 6 Mbps
11489.980	50.4	-4.9	1.8	184.0	0.1	0.0	Vert	AV	0.0	45.6	54.0	-8.4	EUT Vert, Ch 149, 6 Mbps
15779.850	27.3	18.1	1.5	338.0	0.1	0.0	Horz	AV	0.0	45.5	54.0	-8.5	EUT On Side, Ch 52, 6 Mbps
13299.950	30.5	14.8	3.5	108.0	0.1	0.0	Vert	AV	0.0	45.4	54.0	-8.6	EUT Horz, Ch 64, 6 Mbps
15539.880	27.8	17.3	1.5	109.0	0.1	0.0	Horz	AV	0.0	45.2	54.0	-8.8	EUT On Side, Ch 36, 6 Mbps
15540.250	27.8	17.3	2.7	289.0	0.1	0.0	Vert	AV	0.0	45.2	54.0	-8.8	EUT Vert, Ch 36, 6 Mbps
11650.020	48.1	-3.3	2.4	202.0	0.1	0.0	Horz	AV	0.0	44.9	54.0	-9.1	EUT On Side, Ch 165, 6 Mbps

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Duty Cycle Correction Factor (dB)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
11649.980	47.9	-3.3	1.7	195.0	0.1	0.0	Vert	AV	0.0	44.7	54.0	-9.3	EUT Vert, Ch 165, 6 Mbps
15960.190	26.9	17.7	1.5	269.0	0.1	0.0	Vert	AV	0.0	44.7	54.0	-9.3	EUT Vert, Ch 64, 6 Mbps
15959.800	26.7	17.7	1.5	93.0	0.1	0.0	Horz	AV	0.0	44.5	54.0	-9.5	EUT On Side, Ch 64, 6 Mbps
11159.980	50.4	-6.1	1.6	174.0	0.1	0.0	Vert	AV	0.0	44.4	54.0	-9.6	EUT Vert, Ch 116, 6 Mbps
11490.030	48.8	-4.9	1.0	190.0	0.1	0.0	Horz	AV	0.0	44.0	54.0	-10.0	EUT On Side, Ch 149, 6 Mbps
11570.010	48.0	-4.2	1.0	191.0	0.1	0.0	Horz	AV	0.0	43.9	54.0	-10.1	EUT On Side, Ch 157, 6 Mbps
8250.000	53.6	-10.2	3.7	269.0	0.1	0.0	Horz	AV	0.0	43.5	54.0	-10.5	EUT On Side, Ch 100, 6 Mbps
13299.980	28.3	14.8	1.2	90.0	0.1	0.0	Horz	AV	0.0	43.2	54.0	-10.8	EUT Horz, Ch 64, 6 Mbps
13300.050	27.4	14.8	1.5	118.0	0.1	0.0	Vert	AV	0.0	42.3	54.0	-11.7	EUT On Side, Ch 64, 6 Mbps
8369.983	52.1	-10.1	1.9	299.0	0.1	0.0	Horz	AV	0.0	42.1	54.0	-11.9	EUT On Side, Ch 116, 6 Mbps
11160.000	48.0	-6.1	1.7	203.0	0.1	0.0	Horz	AV	0.0	42.0	54.0	-12.0	EUT On Side, Ch 116, 6 Mbps
11000.010	49.8	-8.0	1.9	191.0	0.1	0.0	Vert	AV	0.0	41.9	54.0	-12.1	EUT Vert, Ch 100, 6 Mbps
8369.983	49.9	-10.1	1.4	60.0	0.1	0.0	Vert	AV	0.0	39.9	54.0	-14.1	EUT Vert, Ch 116, 6 Mbps
8249.975	49.5	-10.2	1.4	60.0	0.1	0.0	Vert	AV	0.0	39.4	54.0	-14.6	EUT Vert, Ch 100, 6 Mbps
10999.990	46.1	-8.0	1.6	218.0	0.1	0.0	Horz	AV	0.0	38.2	54.0	-15.8	EUT On Side, Ch 100, 6 Mbps
15719.730	38.6	18.5	1.5	142.0	0.0	0.0	Vert	PK	0.0	57.1	74.0	-16.9	EUT Vert, Ch 48, 6 Mbps
15778.150	38.4	18.1	1.5	338.0	0.0	0.0	Horz	PK	0.0	56.5	74.0	-17.5	EUT On Side, Ch 52, 6 Mbps
15666.050	37.4	18.7	1.5	92.0	0.0	0.0	Vert	PK	0.0	56.1	74.0	-17.9	EUT Vert, Ch 36, 6 Mbps
15664.630	37.3	18.7	1.0	211.0	0.0	0.0	Horz	PK	0.0	56.0	74.0	-18.0	EUT On Side, Ch 36, 6 Mbps
15721.600	37.5	18.5	1.5	67.0	0.0	0.0	Vert	PK	0.0	56.0	74.0	-18.0	EUT On Side, Ch 48, 6 Mbps
15779.220	37.9	18.1	1.5	161.0	0.0	0.0	Vert	PK	0.0	56.0	74.0	-18.0	EUT Vert, Ch 52, 6 Mbps
13300.020	41.0	14.8	1.7	205.0	0.0	0.0	Vert	PK	0.0	55.8	74.0	-18.2	EUT Vert, Ch 100, MCS0
15538.220	38.5	17.3	2.7	289.0	0.0	0.0	Vert	PK	0.0	55.8	74.0	-18.2	EUT Vert, Ch 36, 6 Mbps
13300.040	40.9	14.8	1.7	205.0	0.0	0.0	Vert	PK	0.0	55.7	74.0	-18.3	EUT Vert, Ch 64, MCS7
13299.710	40.8	14.8	1.7	205.0	0.0	0.0	Vert	PK	0.0	55.6	74.0	-18.4	EUT Vert, Ch 64, 36 Mbps
13300.070	40.8	14.8	1.6	203.0	0.0	0.0	Vert	PK	0.0	55.6	74.0	-18.4	EUT Vert, Ch 64, 6 Mbps
13299.900	40.7	14.8	1.7	205.0	0.0	0.0	Vert	PK	0.0	55.5	74.0	-18.5	EUT Vert, Ch 64, 54 Mbps
15541.190	38.1	17.4	1.5	109.0	0.0	0.0	Horz	PK	0.0	55.5	74.0	-18.5	EUT On Side, Ch 36, 6 Mbps
15720.730	37.0	18.5	2.3	252.0	0.0	0.0	Horz	PK	0.0	55.5	74.0	-18.5	EUT On Side, Ch 48, 6 Mbps
13300.040	39.9	14.8	1.5	201.0	0.0	0.0	Horz	PK	0.0	54.7	74.0	-19.3	EUT On Side, Ch 64, 6 Mbps
15960.700	36.8	17.7	1.5	269.0	0.0	0.0	Vert	PK	0.0	54.5	74.0	-19.5	EUT Vert, Ch 64, 6 Mbps
15958.730	36.6	17.7	1.5	93.0	0.0	0.0	Horz	PK	0.0	54.3	74.0	-19.7	EUT On Side, Ch 64, 6 Mbps
13299.420	38.8	14.8	1.7	133.0	0.0	0.0	Horz	PK	0.0	53.6	74.0	-20.4	EUT Vert, Ch 64, 6 Mbps
10639.980	42.6	-9.2	1.7	194.0	0.1	0.0	Vert	AV	0.0	33.5	54.0	-20.5	EUT Vert, Ch 64, 6 Mbps
13299.710	38.0	14.8	3.5	108.0	0.0	0.0	Vert	PK	0.0	52.8	74.0	-21.2	EUT Horz, Ch 64, 6 Mbps
13299.160	37.9	14.8	1.2	90.0	0.0	0.0	Horz	PK	0.0	52.7	74.0	-21.3	EUT Horz, Ch 64, 6 Mbps
10639.930	41.1	-9.2	2.4	198.0	0.1	0.0	Horz	AV	0.0	32.0	54.0	-22.0	EUT On Side, Ch 64, 6 Mbps
13299.580	37.1	14.8	1.5	118.0	0.0	0.0	Vert	PK	0.0	51.9	74.0	-22.1	EUT On Side, Ch 64, 6 Mbps
11570.030	53.0	-4.2	1.7	184.0	0.0	0.0	Vert	PK	0.0	48.8	74.0	-25.2	EUT Vert, Ch 157, 6 Mbps
11649.820	51.6	-3.3	1.7	195.0	0.0	0.0	Vert	PK	0.0	48.3	74.0	-25.7	EUT Vert, Ch 165, 6 Mbps
11490.070	52.8	-4.9	1.8	184.0	0.0	0.0	Vert	PK	0.0	47.9	74.0	-26.1	EUT Vert, Ch 149, 6 Mbps
11650.040	51.1	-3.2	2.4	202.0	0.0	0.0	Horz	PK	0.0	47.9	74.0	-26.1	EUT On Side, Ch 165, 6 Mbps
11399.850	52.9	-5.2	1.9	184.0	0.0	0.0	Vert	PK	0.0	47.7	74.0	-26.3	EUT Vert, Ch 140, 6 Mbps
11400.130	52.9	-5.2	2.8	205.0	0.0	0.0	Horz	PK	0.0	47.7	74.0	-26.3	EUT On Side, Ch 140, 6 Mbps
11569.990	51.9	-4.2	1.0	191.0	0.0	0.0	Horz	PK	0.0	47.7	74.0	-26.3	EUT On Side, Ch 157, 6 Mbps
11490.060	52.1	-4.9	1.0	190.0	0.0	0.0	Horz	PK	0.0	47.2	74.0	-26.8	EUT On Side, Ch 149, 6 Mbps
8249.858	56.8	-10.2	3.7	269.0	0.0	0.0	Horz	PK	0.0	46.6	74.0	-27.4	EUT On Side, Ch 100, 6 Mbps
11160.010	52.6	-6.1	1.6	174.0	0.0	0.0	Vert	PK	0.0	46.5	74.0	-27.5	EUT Vert, Ch 116, 6 Mbps
11159.910	51.0	-6.1	1.7	203.0	0.0	0.0	Horz	PK	0.0	44.9	74.0	-29.1	EUT On Side, Ch 116, 6 Mbps
8370.075	54.8	-10.1	1.9	299.0	0.0	0.0	Horz	PK	0.0	44.7	74.0	-29.3	EUT On Side, Ch 116, 6 Mbps
11000.010	52.6	-8.0	1.9	191.0	0.0	0.0	Vert	PK	0.0	44.6	74.0	-29.4	EUT Vert, Ch 100, 6 Mbps
8370.033	53.7	-10.1	1.4	60.0	0.0	0.0	Vert	PK	0.0	43.6	74.0	-30.4	EUT Vert, Ch 116, 6 Mbps
8249.808	53.6	-10.2	1.4	60.0	0.0	0.0	Vert	PK	0.0	43.4	74.0	-30.6	EUT Vert, Ch 100, 6 Mbps
10999.770	50.2	-8.0	1.6	218.0	0.0	0.0	Horz	PK	0.0	42.2	74.0	-31.8	EUT On Side, Ch 100, 6 Mbps
10639.950	49.0	-9.2	1.7	194.0	0.0	0.0	Vert	PK	0.0	39.8	74.0	-34.2	EUT Vert, Ch 64, 6 Mbps
10640.010	48.9	-9.2	2.4	198.0	0.0	0.0	Horz	PK	0.0	39.7	74.0	-34.3	EUT On Side, Ch 64, 6 Mbps

SPURIOUS RADIATED EMISSIONS

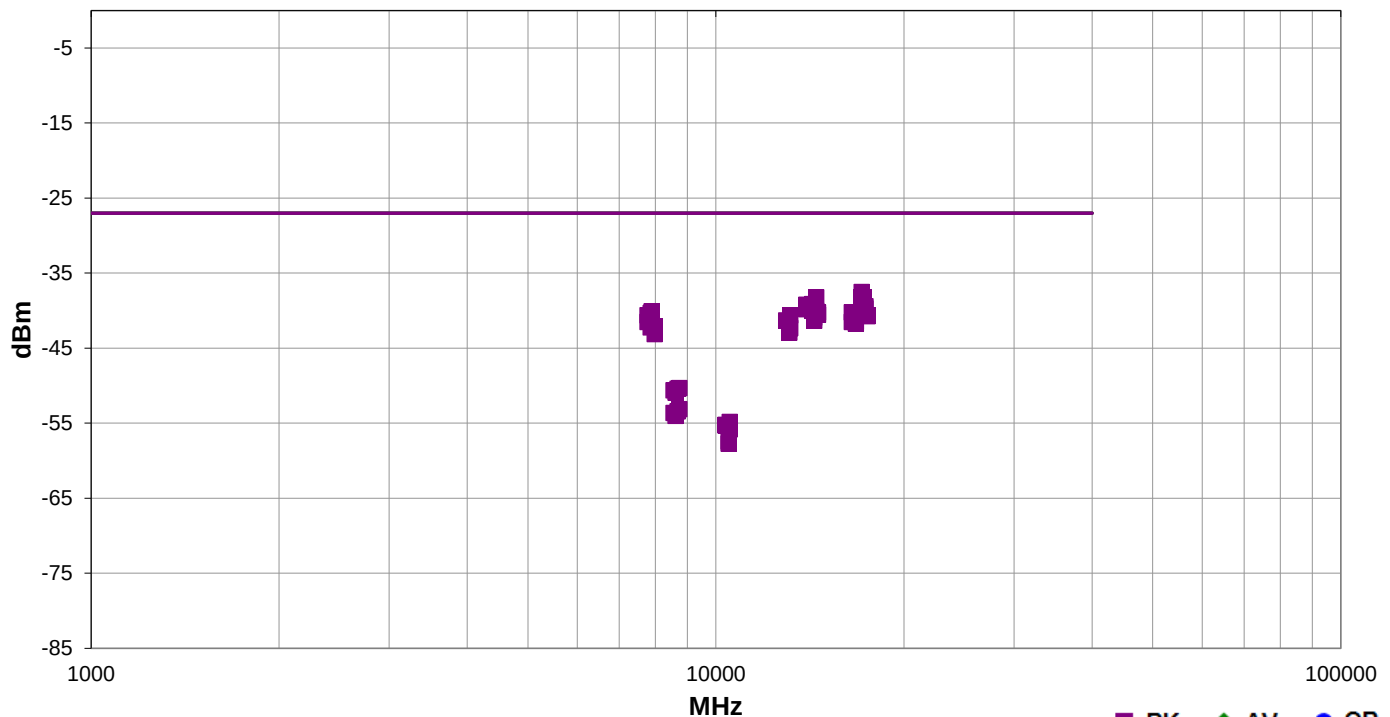


EmiR5 2021.01.08.0 PSA-ESCI 2021.03.17.0

Work Order:	LGPD0258	Date:	2021-05-05		
Project:	None	Temperature:	22.1 °C		
Job Site:	MN09	Humidity:	31.9% RH		
Serial Number:	LB211400035	Barometric Pres.:	1024 mbar	Tested by:	Christopher Heintzelman
EUT:	Zoll R-Series Data Comm II C2PC				
Configuration:	3				
Customer:	Logic PD, Inc.				
Attendees:	Eric Fritz				
EUT Power:	3.7VDC				
Operating Mode:	Transmitting WiFi channels 36, 48, 52, 64, 100, 116, 140, 149, 157, and 165 (5180, 5240, 5260, 5320, 5500, 5580, 5700, 5745, 5785, and 5825 MHz) at 6, 36, 54 Mbps, MCS0, and MCS7. 20 MHz bandwidth.				
Deviations:	None				
Comments:	See comments for datarate and EUT orientation. The cardboard fixture was compared to Styrofoam and the results were determined to be equivalent.				

Test Specifications	Test Method
FCC 15.407:2021	ANSI C63.10:2013

Run #	55	Test Distance (m)	3	Antenna Height(s)	1 to 4(m)	Results	Pass
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Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
7769.900	1.5	115.0	Horz	PK	86.5E-9	-40.6	-27.0	-13.6	EUT On Side, Ch 36, 6 Mbps
7770.058	1.2	133.0	Vert	PK	70.3E-9	-41.5	-27.0	-14.5	EUT Vert, Ch 36, 6 Mbps
7859.225	1.4	173.0	Vert	PK	59.9E-9	-42.2	-27.0	-15.2	EUT Vert, Ch 48, 6 Mbps
7859.767	1.5	115.0	Horz	PK	92.7E-9	-40.3	-27.0	-13.3	EUT On Side, Ch 48, 6 Mbps
7890.008	2.1	242.0	Horz	PK	97.1E-9	-40.1	-27.0	-13.1	EUT On Side, Ch 52, 6 Mbps

	Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
	7890.592	1.0	109.0	Vert	PK	77.1E-9	-41.1	-27.0	-14.1	EUT Vert, Ch 52, 6 Mbps
	7980.025	1.5	105.0	Horz	PK	61.3E-9	-42.1	-27.0	-15.1	EUT On Side, Ch 64, 6 Mbps
	7980.725	1.2	62.0	Vert	PK	48.7E-9	-43.1	-27.0	-16.1	EUT Vert, Ch 64, 6 Mbps
	8549.842	1.5	238.0	Vert	PK	4.3E-9	-53.6	-27.0	-26.6	EUT Vert, Ch 140, 6 Mbps
	8549.875	1.4	104.0	Horz	PK	8.7E-9	-50.6	-27.0	-23.6	EUT On Side, Ch 140, 6 Mbps
	8617.533	1.5	242.0	Vert	PK	4.0E-9	-54.0	-27.0	-27.0	EUT Vert, Ch 149, 6 Mbps
	8617.608	1.3	110.0	Horz	PK	8.1E-9	-50.9	-27.0	-23.9	EUT On Side, Ch 149, 6 Mbps
	8677.333	1.9	247.0	Vert	PK	4.5E-9	-53.4	-27.0	-26.4	EUT Vert, Ch 157, 6 Mbps
	8677.608	1.3	106.0	Horz	PK	9.1E-9	-50.4	-27.0	-23.4	EUT On Side, Ch 157, 6 Mbps
	8737.450	1.3	104.0	Horz	PK	9.3E-9	-50.3	-27.0	-23.3	EUT On Side, Ch 165, 6 Mbps
	8737.475	1.9	245.0	Vert	PK	4.9E-9	-53.1	-27.0	-26.1	EUT Vert, Ch 165, 6 Mbps
	10359.700	1.6	197.0	Vert	PK	3.0E-9	-55.2	-27.0	-28.2	EUT Vert, Ch 36, 6 Mbps
	10362.370	1.5	82.0	Horz	PK	2.9E-9	-55.3	-27.0	-28.3	EUT On Side, Ch 36, 6 Mbps
	10479.790	1.7	184.0	Vert	PK	1.8E-9	-57.4	-27.0	-30.4	EUT Vert, Ch 48, 6 Mbps
	10480.180	1.0	242.0	Horz	PK	1.7E-9	-57.7	-27.0	-30.7	EUT On Side, Ch 48, 6 Mbps
	10519.590	1.9	195.0	Horz	PK	2.6E-9	-55.8	-27.0	-28.8	EUT On Side, Ch 52, 6 Mbps
	10520.080	1.9	188.0	Vert	PK	3.3E-9	-54.8	-27.0	-27.8	EUT Vert, Ch 52, 6 Mbps
	12949.450	2.3	197.0	Horz	PK	73.6E-9	-41.3	-27.0	-14.3	EUT On Side, Ch 36, 6 Mbps
	12950.100	1.7	197.0	Vert	PK	73.6E-9	-41.3	-27.0	-14.3	EUT Vert, Ch 36, 6 Mbps
	13099.720	1.6	199.0	Horz	PK	57.2E-9	-42.4	-27.0	-15.4	EUT On Side, Ch 48, 6 Mbps
	13100.150	1.6	207.0	Vert	PK	65.6E-9	-41.8	-27.0	-14.8	EUT Vert, Ch 48, 6 Mbps
	13100.260	1.3	236.0	Vert	PK	50.9E-9	-42.9	-27.0	-15.9	EUT On Side, Ch 48, 6 Mbps
	13150.050	1.5	202.0	Horz	PK	58.5E-9	-42.3	-27.0	-15.3	EUT On Side, Ch 52, 6 Mbps
	13150.120	1.6	203.0	Vert	PK	86.5E-9	-40.6	-27.0	-13.6	EUT Vert, Ch 52, 6 Mbps
	13948.600	1.5	342.0	Horz	PK	104.0E-9	-39.8	-27.0	-12.8	EUT On Side, Ch 116, 6 Mbps
	13950.070	1.5	184.0	Vert	PK	119.4E-9	-39.2	-27.0	-12.2	EUT Vert, Ch 116, 6 Mbps
	14249.390	1.5	254.0	Vert	PK	99.3E-9	-40.0	-27.0	-13.0	EUT Vert, Ch 140, 6 Mbps
	14249.890	1.1	219.0	Horz	PK	122.2E-9	-39.1	-27.0	-12.1	EUT On Side, Ch 140, 6 Mbps
	14362.250	1.5	209.0	Horz	PK	73.6E-9	-41.3	-27.0	-14.3	EUT On Side, Ch 149, 6 Mbps
	14362.850	1.5	256.0	Vert	PK	80.7E-9	-40.9	-27.0	-13.9	EUT Vert, Ch 149, 6 Mbps
	14462.740	1.5	222.0	Horz	PK	150.4E-9	-38.2	-27.0	-11.2	EUT Vert, Ch 157, 6 Mbps
	14462.890	1.5	212.0	Vert	PK	99.3E-9	-40.0	-27.0	-13.0	EUT On Side, Ch 157, 6 Mbps
	14562.080	1.5	205.0	Horz	PK	88.5E-9	-40.5	-27.0	-13.5	EUT On Side, Ch 165, 6 Mbps
	14562.610	1.5	258.0	Vert	PK	94.9E-9	-40.2	-27.0	-13.2	EUT Vert, Ch 165, 6 Mbps
	16499.030	1.5	53.0	Vert	PK	94.9E-9	-40.2	-27.0	-13.2	EUT Vert, Ch 100, 6 Mbps
	16500.280	1.5	87.0	Horz	PK	70.3E-9	-41.5	-27.0	-14.5	EUT On Side, Ch 100, 6 Mbps
	16740.500	2.5	53.0	Vert	PK	67.2E-9	-41.7	-27.0	-14.7	EUT Vert, Ch 116, 6 Mbps
	16742.250	1.9	327.0	Horz	PK	72.0E-9	-41.4	-27.0	-14.4	EUT On Side, Ch 116, 6 Mbps
	17097.790	1.5	68.0	Vert	PK	150.4E-9	-38.2	-27.0	-11.2	EUT Vert, Ch 140, 6 Mbps
	17101.390	1.5	109.0	Horz	PK	176.7E-9	-37.5	-27.0	-10.5	EUT On Side, Ch 140, 6 Mbps
	17232.590	1.5	263.0	Horz	PK	119.4E-9	-39.2	-27.0	-12.2	EUT On Side, Ch 149, 6 Mbps
	17234.820	3.5	184.0	Vert	PK	150.4E-9	-38.2	-27.0	-11.2	EUT Vert, Ch 149, 6 Mbps
	17353.570	1.5	265.0	Horz	PK	106.4E-9	-39.7	-27.0	-12.7	EUT Vert, Ch 157, 6 Mbps
	17354.780	2.0	197.0	Vert	PK	114.1E-9	-39.4	-27.0	-12.4	EUT On Side, Ch 157, 6 Mbps
	17476.330	3.8	161.0	Vert	PK	84.6E-9	-40.7	-27.0	-13.7	EUT Vert, Ch 165, 6 Mbps
	17476.800	1.5	302.0	Horz	PK	86.5E-9	-40.6	-27.0	-13.6	EUT On Side, Ch 165, 6 Mbps

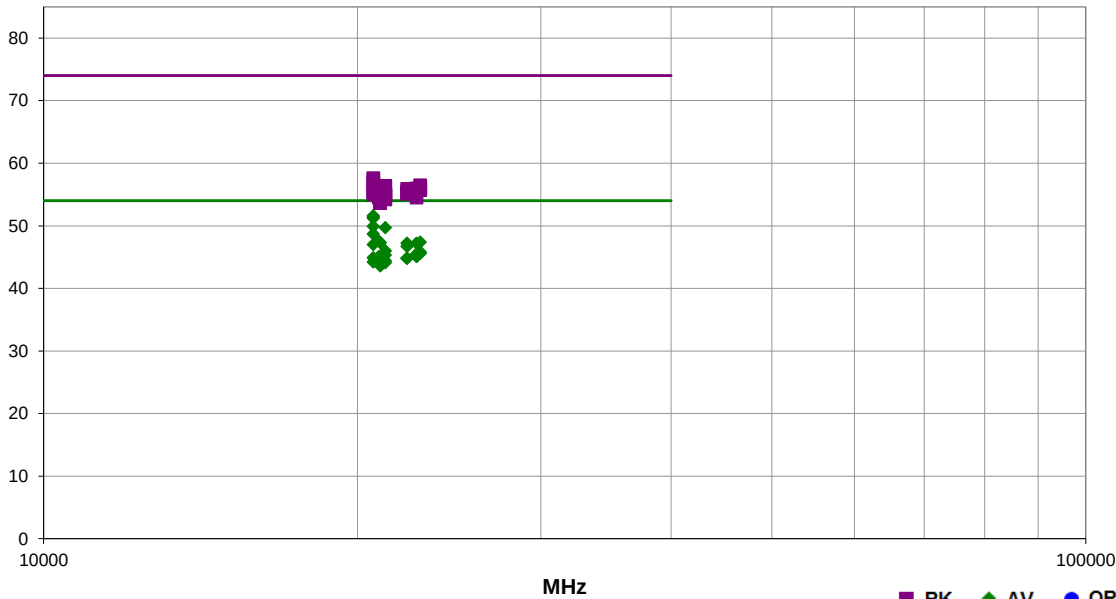
SPURIOUS RADIATED EMISSIONS



Work Order:	LGPD0258	Date:	2021-05-06	
Project:	None	Temperature:	21.8 °C	
Job Site:	MN09	Humidity:	33.6% RH	
Serial Number:	LB211400035	Barometric Pres.:	1025 mbar	
EUT:		Zoll R-Series Data Comm II C2PC		
Configuration:	3			
Customer:	Logic PD, Inc.			
Attendees:	Eric Fritz			
EUT Power:	3.7VDC			
Operating Mode:	Transmitting WiFi channels 36, 48, 52, 64, 100, 116, 140, 149, 157, and 165 (5180, 5240, 5260, 5320, 5500, 5580, 5700, 5745, 5785, and 5825 MHz) at 6, 36, 54 Mbps, MCS0, and MCS7. 20 MHz bandwidth.			
Deviations:	None			
Comments:	See comments for datarate and EUT orientation. The cardboard fixture was compared to Styrofoam and the results were determined to be equivalent.			

Test Specifications	Test Method
FCC 15.407:2021	ANSI C63.10:2013

Run #	86	Test Distance (m)	3	Antenna Height(s)	1 to 1.25(m)	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Duty Cycle Correction Factor (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
20720.000	33.9	16.8	1.6	154.0	0.9	0.0	Horz	AV	0.0	51.6	54.0	-2.4	EUT Vert, Ch 36, 54 Mbps
20719.940	33.9	16.8	1.6	154.0	0.7	0.0	Horz	AV	0.0	51.4	54.0	-2.6	EUT Vert, Ch 36, 36 Mbps
20720.030	34.3	16.8	1.6	154.0	0.1	0.0	Horz	AV	0.0	51.2	54.0	-2.8	EUT Vert, Ch 36, MCS0
20720.040	33.0	16.8	1.6	159.0	0.1	0.0	Horz	AV	0.0	49.9	54.0	-4.1	EUT Vert, Ch 36, 6 Mbps
21280.010	32.3	17.3	1.6	156.0	0.1	0.0	Horz	AV	0.0	49.7	54.0	-4.3	EUT Vert, Ch 64, 6 Mbps
20720.030	30.8	16.8	1.6	154.0	1.1	0.0	Horz	AV	0.0	48.7	54.0	-5.3	EUT Vert, Ch 36, MCS7
20960.000	30.4	17.1	1.6	161.0	0.1	0.0	Horz	AV	0.0	47.6	54.0	-6.4	EUT Vert, Ch 48, 6 Mbps
22980.010	28.9	18.4	1.6	127.0	0.1	0.0	Horz	AV	0.0	47.4	54.0	-6.6	EUT Vert, Ch 149, 6 Mbps
21040.050	30.0	17.2	1.6	149.0	0.1	0.0	Horz	AV	0.0	47.3	54.0	-6.7	EUT Vert, Ch 52, 6 Mbps
22319.980	29.3	17.8	1.6	143.0	0.1	0.0	Horz	AV	0.0	47.2	54.0	-6.8	EUT Vert, Ch 116, 6 Mbps
22800.030	28.8	18.3	1.6	125.0	0.1	0.0	Horz	AV	0.0	47.2	54.0	-6.8	EUT Vert, Ch 140, 6 Mbps
20719.980	30.1	16.8	1.6	128.0	0.1	0.0	Horz	AV	0.0	47.0	54.0	-7.0	EUT On Side, Ch 36, 6 Mbps
22320.020	28.8	17.8	1.6	118.0	0.1	0.0	Horz	AV	0.0	46.7	54.0	-7.3	EUT On Side, Ch 149, 6 Mbps
21279.990	28.6	17.3	1.6	129.0	0.1	0.0	Horz	AV	0.0	46.0	54.0	-8.0	EUT On Side, Ch 64, 6 Mbps
22980.200	27.3	18.4	1.6	100.0	0.1	0.0	Horz	AV	0.0	45.8	54.0	-8.2	EUT On Side, Ch 149, 6 Mbps
22981.730	27.1	18.4	1.6	219.0	0.1	0.0	Vert	AV	0.0	45.6	54.0	-8.4	EUT On Side, Ch 149, 6 Mbps
22981.740	27.1	18.4	1.6	0.0	0.1	0.0	Vert	AV	0.0	45.6	54.0	-8.4	EUT Vert, Ch 149, 6 Mbps
22800.130	27.1	18.3	1.6	116.0	0.1	0.0	Horz	AV	0.0	45.5	54.0	-8.5	EUT On Side, Ch 140, 6 Mbps
21280.020	27.9	17.3	1.6	206.0	0.1	0.0	Horz	AV	0.0	45.3	54.0	-8.7	EUT On Side, Ch 64, 6 Mbps
22800.630	26.7	18.3	1.6	295.0	0.1	0.0	Vert	AV	0.0	45.1	54.0	-8.9	EUT Vert, Ch 140, 6 Mbps
22801.370	26.7	18.3	1.6	226.0	0.1	0.0	Vert	AV	0.0	45.1	54.0	-8.9	EUT On Side, Ch 140, 6 Mbps
20959.830	27.8	17.1	1.6	118.0	0.1	0.0	Horz	AV	0.0	45.0	54.0	-9.0	EUT On Side, Ch 48, 6 Mbps

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Duty Cycle Correction Factor (dB)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
20719.920	28.0	16.8	1.6	192.0	0.1	0.0	Vert	AV	0.0	44.9	54.0	-9.1	EUT On Side, Ch 36, 6 Mbps
22318.440	26.9	17.8	1.6	359.0	0.1	0.0	Vert	AV	0.0	44.8	54.0	-9.2	EUT On Side, Ch 116, 6 Mbps
22320.590	26.9	17.8	1.6	107.0	0.1	0.0	Vert	AV	0.0	44.8	54.0	-9.2	EUT Vert, Ch 116, 6 Mbps
21040.000	27.2	17.2	1.6	246.0	0.1	0.0	Horz	AV	0.0	44.5	54.0	-9.5	EUT On Side, Ch 52, 6 Mbps
21279.910	27.0	17.3	1.6	133.0	0.1	0.0	Vert	AV	0.0	44.4	54.0	-9.6	EUT Vert, Ch 64, 6 Mbps
20948.170	27.0	17.2	1.6	6.0	0.1	0.0	Vert	AV	0.0	44.3	54.0	-9.7	EUT Vert, Ch 48, 6 Mbps
20722.490	27.3	16.8	1.6	260.0	0.1	0.0	Vert	AV	0.0	44.2	54.0	-9.8	EUT Vert, Ch 36, 6 Mbps
20959.920	27.0	17.1	1.6	214.0	0.1	0.0	Vert	AV	0.0	44.2	54.0	-9.8	EUT On Side, Ch 48, 6 Mbps
21279.850	26.7	17.3	1.6	333.0	0.1	0.0	Vert	AV	0.0	44.1	54.0	-9.9	EUT On Side, Ch 64, 6 Mbps
21039.980	26.7	17.2	1.6	139.0	0.1	0.0	Vert	AV	0.0	44.0	54.0	-10.0	EUT On Side, Ch 52, 6 Mbps
21041.780	26.3	17.2	1.6	60.0	0.1	0.0	Vert	AV	0.0	43.6	54.0	-10.4	EUT Vert, Ch 52, 6 Mbps
20719.690	40.8	16.8	1.6	154.0	0.0	0.0	Horz	PK	0.0	57.6	74.0	-16.4	EUT Vert, Ch 36, 36 Mbps
20719.900	40.8	16.8	1.6	154.0	0.0	0.0	Horz	PK	0.0	57.6	74.0	-16.4	EUT Vert, Ch 36, 54 Mbps
20720.170	40.2	16.8	1.6	154.0	0.0	0.0	Horz	PK	0.0	57.0	74.0	-17.0	EUT Vert, Ch 36, MCS0
20719.770	39.8	16.8	1.6	159.0	0.0	0.0	Horz	PK	0.0	56.6	74.0	-17.4	EUT Vert, Ch 36, 6 Mbps
22978.820	38.1	18.4	1.6	127.0	0.0	0.0	Horz	PK	0.0	56.5	74.0	-17.5	EUT Vert, Ch 149, 6 Mbps
21279.840	39.1	17.3	1.6	156.0	0.0	0.0	Horz	PK	0.0	56.4	74.0	-17.6	EUT Vert, Ch 64, 6 Mbps
22982.210	37.9	18.4	1.6	0.0	0.0	0.0	Vert	PK	0.0	56.3	74.0	-17.7	EUT Vert, Ch 149, 6 Mbps
22800.160	37.7	18.3	1.6	125.0	0.0	0.0	Horz	PK	0.0	56.0	74.0	-18.0	EUT Vert, Ch 140, 6 Mbps
22980.540	37.6	18.4	1.6	219.0	0.0	0.0	Vert	PK	0.0	56.0	74.0	-18.0	EUT On Side, Ch 149, 6 Mbps
22320.130	38.1	17.8	1.6	143.0	0.0	0.0	Horz	PK	0.0	55.9	74.0	-18.1	EUT Vert, Ch 116, 6 Mbps
22800.320	37.6	18.3	1.6	226.0	0.0	0.0	Vert	PK	0.0	55.9	74.0	-18.1	EUT On Side, Ch 140, 6 Mbps
22979.310	37.3	18.4	1.6	100.0	0.0	0.0	Horz	PK	0.0	55.7	74.0	-18.3	EUT On Side, Ch 149, 6 Mbps
20720.040	38.8	16.8	1.6	154.0	0.0	0.0	Horz	PK	0.0	55.6	74.0	-18.4	EUT Vert, Ch 36, MCS7
22797.940	37.4	18.2	1.6	116.0	0.0	0.0	Horz	PK	0.0	55.6	74.0	-18.4	EUT On Side, Ch 140, 6 Mbps
20719.520	38.7	16.8	1.6	128.0	0.0	0.0	Horz	PK	0.0	55.5	74.0	-18.5	EUT On Side, Ch 36, 6 Mbps
22319.870	37.7	17.8	1.6	118.0	0.0	0.0	Horz	PK	0.0	55.5	74.0	-18.5	EUT On Side, Ch 116, 6 Mbps
20965.420	38.3	17.1	1.6	161.0	0.0	0.0	Horz	PK	0.0	55.4	74.0	-18.6	EUT Vert, Ch 48, 6 Mbps
20719.770	38.5	16.8	1.6	192.0	0.0	0.0	Vert	PK	0.0	55.3	74.0	-18.7	EUT On Side, Ch 36, 6 Mbps
20958.790	38.2	17.1	1.6	6.0	0.0	0.0	Vert	PK	0.0	55.3	74.0	-18.7	EUT Vert, Ch 48, 6 Mbps
21040.130	38.0	17.2	1.6	149.0	0.0	0.0	Horz	PK	0.0	55.2	74.0	-18.8	EUT Vert, Ch 52, 6 Mbps
22319.940	37.4	17.8	1.6	359.0	0.0	0.0	Vert	PK	0.0	55.2	74.0	-18.8	EUT On Side, Ch 116, 6 Mbps
21279.650	37.8	17.3	1.6	133.0	0.0	0.0	Vert	PK	0.0	55.1	74.0	-18.9	EUT Vert, Ch 64, 6 Mbps
22319.630	37.3	17.8	1.6	107.0	0.0	0.0	Vert	PK	0.0	55.1	74.0	-18.9	EUT Vert, Ch 116, 6 Mbps
20718.190	38.2	16.8	1.6	260.0	0.0	0.0	Vert	PK	0.0	55.0	74.0	-19.0	EUT Vert, Ch 36, 6 Mbps
21280.090	37.5	17.3	1.6	206.0	0.0	0.0	Horz	PK	0.0	54.8	74.0	-19.2	EUT On Side, Ch 64, 6 Mbps
21280.880	37.5	17.3	1.6	129.0	0.0	0.0	Horz	PK	0.0	54.8	74.0	-19.2	EUT On Side, Ch 64, 6 Mbps
20970.040	37.6	17.1	1.6	118.0	0.0	0.0	Horz	PK	0.0	54.7	74.0	-19.3	EUT On Side, Ch 48, 6 Mbps
20966.540	37.4	17.1	1.6	214.0	0.0	0.0	Vert	PK	0.0	54.5	74.0	-19.5	EUT On Side, Ch 48, 6 Mbps
22797.980	36.3	18.2	1.6	295.0	0.0	0.0	Vert	PK	0.0	54.5	74.0	-19.5	EUT Vert, Ch 140, 6 Mbps
21278.210	36.9	17.3	1.6	333.0	0.0	0.0	Vert	PK	0.0	54.2	74.0	-19.8	EUT On Side, Ch 64, 6 Mbps
21038.410	36.5	17.2	1.6	246.0	0.0	0.0	Horz	PK	0.0	53.7	74.0	-20.3	EUT On Side, Ch 52, 6 Mbps
21038.280	36.4	17.2	1.6	139.0	0.0	0.0	Vert	PK	0.0	53.6	74.0	-20.4	EUT On Side, Ch 52, 6 Mbps
21038.430	36.4	17.2	1.6	60.0	0.0	0.0	Vert	PK	0.0	53.6	74.0	-20.4	EUT Vert, Ch 36, 6 Mbps

SPURIOUS RADIATED EMISSIONS

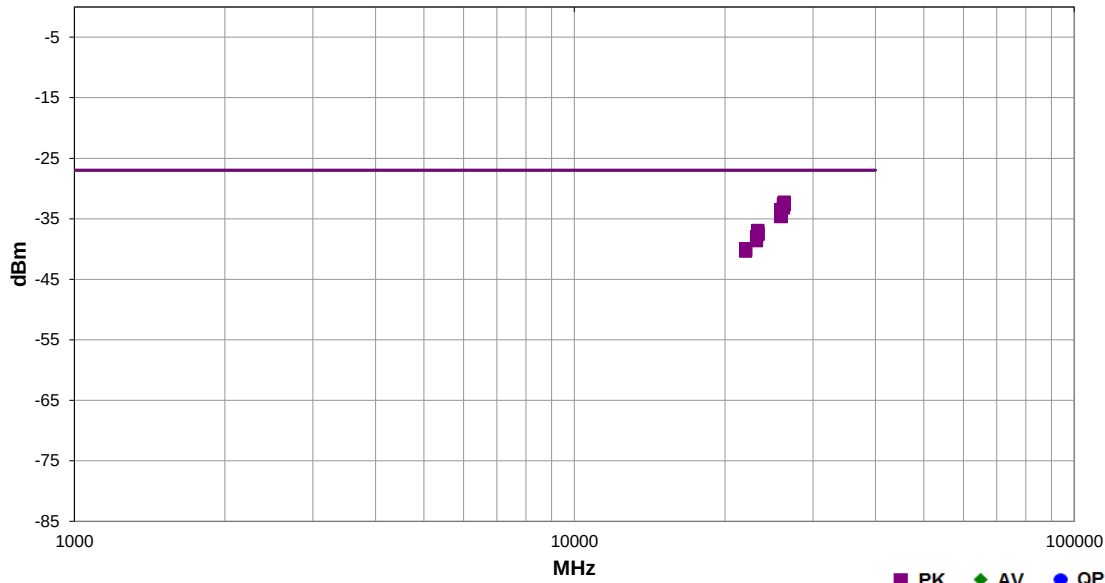


EmiRS 2021.01.08.0 PSA-ESCI 2021.03.17.0

Work Order:	LGPD0258	Date:	2021-05-06	<i>Chris Heintzelman</i>
Project:	None	Temperature:	21.8 °C	
Job Site:	MN09	Humidity:	33.6% RH	
Serial Number:	LB211400035	Barometric Pres.:	1025 mbar	
EUT:	Zoll R-Series Data Comm II C2PC			
Configuration:	3			
Customer:	Logic PD, Inc.			
Attendees:	Eric Fritz			
EUT Power:	3.7VDC			
Operating Mode:	Transmitting WiFi channels 36, 48, 52, 64, 100, 116, 140, 149, 157, and 165 (5180, 5240, 5260, 5320, 5500, 5580, 5700, 5745, 5785, and 5825 MHz) at 6, 36, 54 Mbps, MCS0, and MCS7. 20 MHz bandwidth.			
Deviations:	None			
Comments:	See comments for datarate and EUT orientation. The cardboard fixture was compared to Styrofoam and the results were determined to be equivalent.			

Test Specifications	Test Method
FCC 15.407:2021	ANSI C63.10:2013

Run #	86	Test Distance (m)	3	Antenna Height(s)	1 to 1.25(m)	Results	Pass
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Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
21998.540	1.6	347.0	Vert	PK	97.1E-9	-40.1	-27.0	-13.1	EUT On Side, Ch 100, 6 Mbps
22000.100	1.6	166.0	Horz	PK	92.7E-9	-40.3	-27.0	-13.3	EUT On Side, Ch 100, 6 Mbps
22001.750	1.6	256.0	Horz	PK	101.7E-9	-39.9	-27.0	-12.9	EUT Vert, Ch 100, 6 Mbps
22002.420	1.6	317.0	Vert	PK	92.7E-9	-40.3	-27.0	-13.3	EUT Vert, Ch 100, 6 Mbps
23138.830	1.6	108.0	Vert	PK	150.4E-9	-38.2	-27.0	-11.2	EUT Vert, Ch 157, 6 Mbps
23139.420	1.6	136.0	Horz	PK	161.1E-9	-37.9	-27.0	-10.9	EUT On Side, Ch 157, 6 Mbps
23140.510	1.6	340.0	Horz	PK	137.1E-9	-38.6	-27.0	-11.6	EUT Vert, Ch 157, 6 Mbps
23142.170	1.6	286.0	Vert	PK	157.4E-9	-38.0	-27.0	-11.0	EUT On Side, Ch 157, 6 Mbps
23298.880	1.6	230.0	Horz	PK	176.7E-9	-37.5	-27.0	-10.5	EUT On Side, Ch 165, 6 Mbps
23300.910	1.6	137.0	Horz	PK	202.8E-9	-36.9	-27.0	-9.9	EUT Vert, Ch 165, 6 Mbps
23301.720	1.6	78.0	Vert	PK	180.8E-9	-37.4	-27.0	-10.4	EUT Vert, Ch 165, 6 Mbps
23302.290	1.6	14.0	Vert	PK	176.7E-9	-37.5	-27.0	-10.5	EUT On Side, Ch 165, 6 Mbps
25898.090	1.6	38.0	Horz	PK	443.7E-9	-33.5	-27.0	-6.5	EUT On Side, Ch 36, 6 Mbps
25899.030	1.6	0.0	Vert	PK	344.4E-9	-34.6	-27.0	-7.6	EUT On Side, Ch 36, 6 Mbps
25901.790	1.6	149.0	Vert	PK	386.5E-9	-34.1	-27.0	-7.1	EUT Vert, Ch 36, 6 Mbps
25902.070	1.6	69.0	Horz	PK	344.4E-9	-34.6	-27.0	-7.6	EUT Vert, Ch 36, 6 Mbps
26197.650	1.6	359.0	Vert	PK	533.5E-9	-32.7	-27.0	-5.7	EUT Vert, Ch 48, 6 Mbps
26197.930	1.6	260.0	Vert	PK	558.6E-9	-32.5	-27.0	-5.5	EUT Vert, Ch 48, 6 Mbps
26200.030	1.6	12.0	Horz	PK	486.5E-9	-33.1	-27.0	-6.1	EUT On Side, Ch 48, 6 Mbps
26202.180	1.6	254.0	Vert	PK	475.5E-9	-33.2	-27.0	-6.2	EUT On Side, Ch 48, 6 Mbps
26298.220	1.6	199.0	Horz	PK	585.0E-9	-32.3	-27.0	-5.3	EUT On Side, Ch 52, 6 Mbps
26299.170	1.6	126.0	Horz	PK	571.6E-9	-32.4	-27.0	-5.4	EUT Vert, Ch 52, 6 Mbps
26300.780	1.6	190.0	Vert	PK	598.6E-9	-32.2	-27.0	-5.2	EUT On Side, Ch 52, 6 Mbps
26300.800	1.6	93.0	Vert	PK	545.9E-9	-32.6	-27.0	-5.6	EUT Vert, Ch 52, 6 Mbps

SPURIOUS RADIATED EMISSIONS

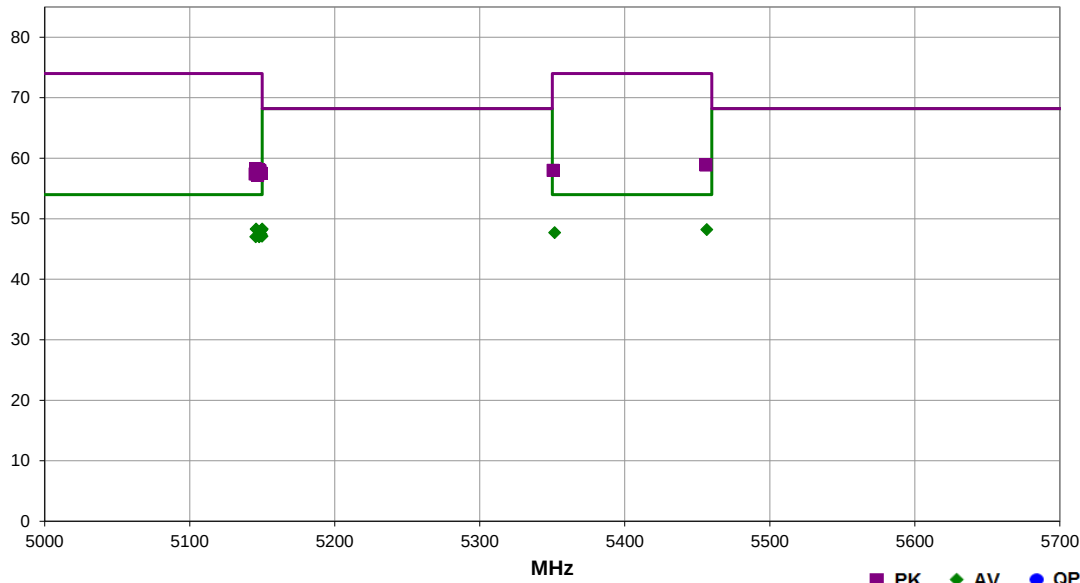


EmiR5 2021.01.08.0 PSA-ESCI 2021.03.17.0

Work Order:	LGPD0258	Date:	2021-05-06	<i>Christopher Heintzman</i>
Project:	None	Temperature:	21.8 °C	
Job Site:	MN09	Humidity:	33.6% RH	
Serial Number:	LB211400035	Barometric Pres.:	1025 mbar	
EUT:	Zoll R-Series Data Comm II C2PC			Tested by: Christopher Heintzman
Configuration:	3			
Customer:	Logic PD, Inc.			
Attendees:	Eric Fritz			
EUT Power:	3.7VDC			
Operating Mode:	Transmitting WiFi channels 36, 64, and 100 (5180, 5320, and 5500 MHz), 20 MHz bandwidth at 6, 36, 54 Mbps, MCS0, and MCS7.			
Deviations:	None			
Comments:	See comments for EUT orientation and data rate. The cardboard fixture was compared to Styrofoam and the results were determined to be equivalent.			

Test Specifications	Test Method
FCC 15.407:2021, FCC 15.205:2021	ANSI C63.10:2013

Run #	71	Test Distance (m)	1	Antenna Height(s)	1 to 4(m)	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Duty Cycle Correction Factor (dB)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
5145.892	21.6	35.1	1.6	81.0	1.1	0.0	Horz	AV	-9.5	48.3	54.0	-5.7	EUT Vert, Ch 36, MCS7
5149.983	21.8	35.1	1.6	81.0	0.9	0.0	Horz	AV	-9.5	48.3	54.0	-5.7	EUT Vert, Ch 36, 54 Mbps
5456.617	21.7	35.9	1.6	167.0	0.1	0.0	Horz	AV	-9.5	48.2	54.0	-5.8	EUT Vert, Ch 100, 6 Mbps
5149.525	21.8	35.1	1.6	81.0	0.7	0.0	Horz	AV	-9.5	48.1	54.0	-5.9	EUT Vert, Ch 36, 36 Mbps
5351.750	21.7	35.4	1.6	30.0	0.1	0.0	Horz	AV	-9.5	47.7	54.0	-6.3	EUT Vert, Ch 64, 6 Mbps
5148.258	21.8	35.1	1.6	81.0	0.1	0.0	Horz	AV	-9.5	47.5	54.0	-6.5	EUT Vert, Ch 36, 6 Mbps
5149.025	21.8	35.1	1.6	81.0	0.1	0.0	Horz	AV	-9.5	47.5	54.0	-6.5	EUT Vert, Ch 36, MCS0
5149.325	21.7	35.1	1.6	150.0	0.1	0.0	Vert	AV	-9.5	47.4	54.0	-6.6	EUT Vert, Ch 36, 6 Mbps
5149.875	21.4	35.1	1.6	157.0	0.1	0.0	Horz	AV	-9.5	47.1	54.0	-6.9	EUT On Side, Ch 36, 6 Mbps
5147.875	21.4	35.1	1.6	64.0	0.1	0.0	Vert	AV	-9.5	47.1	54.0	-6.9	EUT On Side, Ch 36, 6 Mbps
5145.583	21.3	35.1	1.6	235.0	0.1	0.0	Horz	AV	-9.5	47.0	54.0	-7.0	EUT Vert, Ch 36, 6 Mbps
5147.967	21.3	35.1	1.6	20.0	0.1	0.0	Vert	AV	-9.5	47.0	54.0	-7.0	EUT Horz, Ch 36, 6 Mbps
5456.042	32.5	35.9	1.6	167.0	0.0	0.0	Horz	PK	-9.5	58.9	74.0	-15.1	EUT Vert, Ch 100, 6 Mbps
5145.425	32.7	35.1	1.6	81.0	0.0	0.0	Horz	PK	-9.5	58.3	74.0	-15.7	EUT Vert, Ch 36, 6 Mbps
5147.233	32.5	35.1	1.6	81.0	0.0	0.0	Horz	PK	-9.5	58.1	74.0	-15.9	EUT Vert, Ch 36, 54 Mbps
5148.067	32.4	35.1	1.6	81.0	0.0	0.0	Horz	PK	-9.5	58.0	74.0	-16.0	EUT Vert, Ch 36, 36 Mbps
5350.625	32.1	35.4	1.6	30.0	0.0	0.0	Horz	PK	-9.5	58.0	74.0	-16.0	EUT Vert, Ch 64, 6 Mbps
5148.475	32.3	35.1	1.6	150.0	0.0	0.0	Vert	PK	-9.5	57.9	74.0	-16.1	EUT Vert, Ch 36, 6 Mbps
5148.342	32.1	35.1	1.6	157.0	0.0	0.0	Horz	PK	-9.5	57.7	74.0	-16.3	EUT On Side, Ch 36, 6 Mbps
5146.125	31.9	35.1	1.6	20.0	0.0	0.0	Vert	PK	-9.5	57.5	74.0	-16.5	EUT Horz, Ch 36, 6 Mbps
5149.267	31.9	35.1	1.6	81.0	0.0	0.0	Horz	PK	-9.5	57.5	74.0	-16.5	EUT Vert, Ch 36, MCS7
5145.075	31.8	35.1	1.6	235.0	0.0	0.0	Horz	PK	-9.5	57.4	74.0	-16.6	EUT Horz, Ch 36, 6 Mbps
5146.467	31.7	35.1	1.6	64.0	0.0	0.0	Vert	PK	-9.5	57.3	74.0	-16.7	EUT On Side, Ch 36, 6 Mbps
5146.833	31.6	35.1	1.6	81.0	0.0	0.0	Horz	PK	-9.5	57.2	74.0	-16.8	EUT Vert, Ch 36, MCS0

SPURIOUS RADIATED EMISSIONS

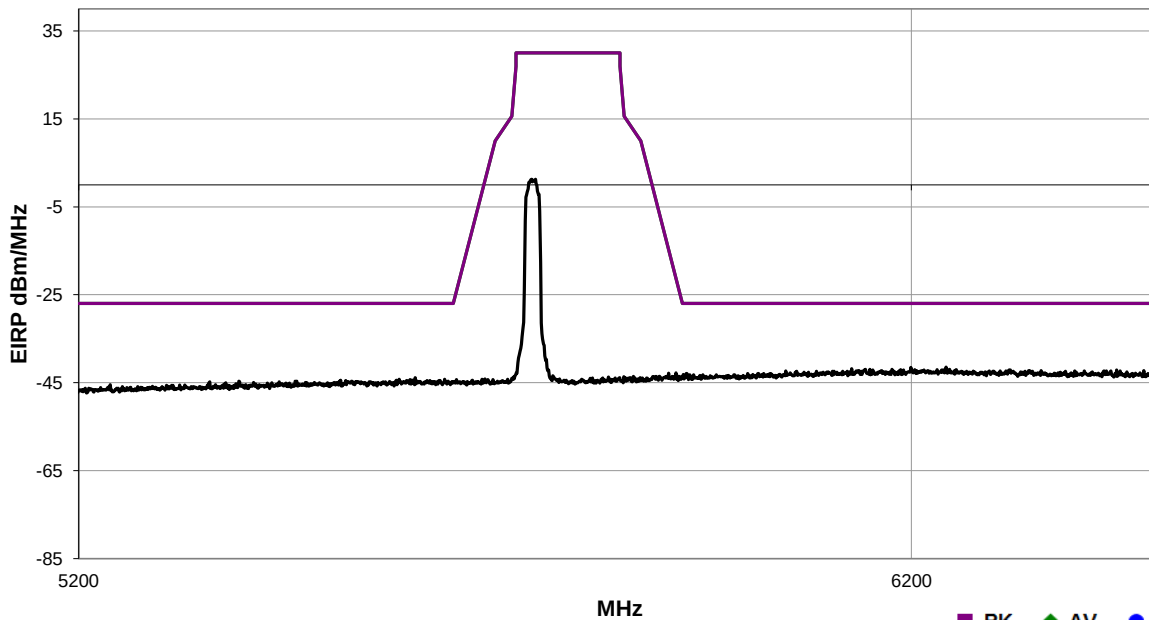


EmiR5 2021.01.08.0 PSA-ESCI 2021.03.17.0

Work Order:	LGPD0258	Date:	2021-05-06	<i>Christopher Heintzelman</i>
Project:	None	Temperature:	21.8 °C	
Job Site:	MN09	Humidity:	33.6% RH	
Serial Number:	LB211400035	Barometric Pres.:	1025 mbar	
Tested by:	Christopher Heintzelman			
EUT:	Zoll R-Series Data Comm II C2PC			
Configuration:	3			
Customer:	Logic PD, Inc.			
Attendees:	Eric Fritz			
EUT Power:	3.7VDC			
Operating Mode:	Transmitting WiFi channel 149 (5745 MHz), 6 Mbps, 20 MHz bandwidth			
Deviations:	None			
Comments:	EUT Vert. The cardboard fixture was compared to Styrofoam and the results were determined to be equivalent.			

Test Specifications	Test Method
FCC 15.407:2021	ANSI C63.10:2013

Run #	75	Test Distance (m)	1	Antenna Height(s)	1.25 (m)	Results	Pass
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Freq (MHz)	Antenna Height (meters)	Transducer (dB/m)	Polarity/ Transducer Type	Detector	EIRP (Watts/MHz)	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments
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All emissions were below the limit (see graph above).

SPURIOUS RADIATED EMISSIONS

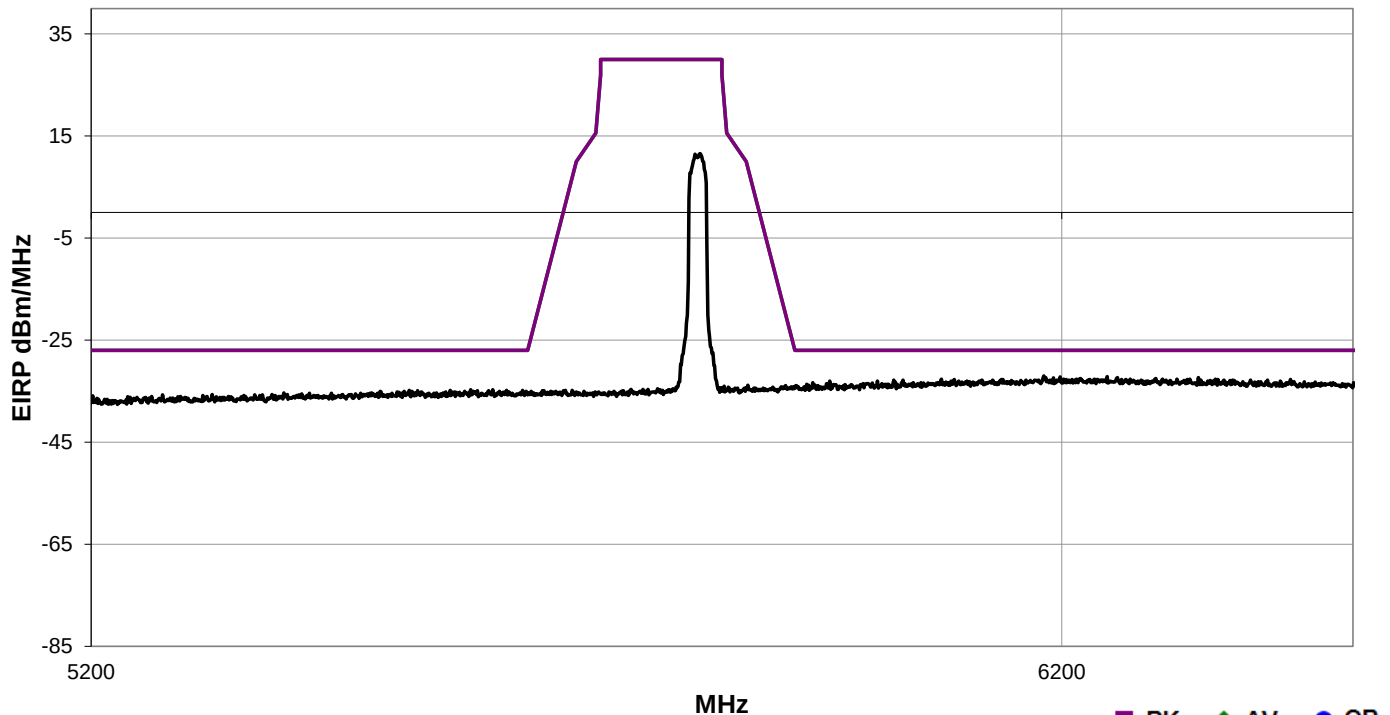


EmiR5 2021.01.08.0 PSA-ESCI 2021.03.17.0

Work Order:	LGPD0258	Date:	2021-05-06	<i>Christopher Heintzelman</i>
Project:	None	Temperature:	21.8 °C	
Job Site:	MN09	Humidity:	33.6% RH	
Serial Number:	LB211400035	Barometric Pres.:	1025 mbar	
Tested by: Christopher Heintzelman				
EUT:	Zoll R-Series Data Comm II C2PC			
Configuration:	3			
Customer:	Logic PD, Inc.			
Attendees:	Eric Fritz			
EUT Power:	3.7VDC			
Operating Mode:	Transmitting WiFi channel 165 (5825 MHz), 6 Mbps, 20 MHz bandwidth			
Deviations:	None			
Comments:	EUT Vert. The cardboard fixture was compared to Styrofoam and the results were determined to be equivalent.			

Test Specifications	Test Method
FCC 15.407:2021	ANSI C63.10:2013

Run #	76	Test Distance (m)	1	Antenna Height(s)	1.25 (m)	Results	Pass
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Freq (MHz)	Antenna Height (meters)	Transducer (dB/m)	Polarity/Transducer Type	Detector	EIRP (Watts/MHz)	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments
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All emissions were below the limit (see graph above).

End of Test Report