

Put Us To The Test sm

Report of Measurements FCC Part 15, Subpart C, Section 15.223

On

Antenna Pedestal Model Numbers Used for Testing: NP12 PRI/PAB, NP12 SAB

FCC ID: DO4NEO2PS

Customer Name:	Checkpoint Systems, Inc.
Customer P.O:	1101200342
Date of Report Rev.:	September 25, 2023
Test Report No:	R-3728P-2, Rev. B
Test Start Date:	June 12, 2023
Test Finish Date:	June 16, 2023

Our letters, procedures and reports are for the exclusive use of the customer to whom they are addressed and their communication or the use of the name of Retlif Testing Laboratories must receive our prior written approval. Our letters, procedures and reports apply only to the sample tested and are not necessarily indicative of the qualities of apparently identical or similar products. The letters, procedures and reports and the name of Retlif Testing Laboratories or insignia are not to be used under any circumstances in advertising to the general public. This test report shall not be reproduced, except in full, without the written approval of Retlif Testing Laboratories.

Certification and Signatures We certify that this report is a true representation of the results obtained from the tests of the equipment stated. We further certify that the measurements shown in this report were made in accordance with the procedures indicated and vouch for the qualifications of all Retlif Testing Laboratories personnel taking them.

Richard J. Reitz Director of Engineering iNARTE Electromagnetic Compatibility Engineer EMC-050739-E Scott Wentworth Branch Manager

Non-Warranty Provision

The testing services have been performed, findings obtained and reports prepared in accordance with generally accepted laboratory principles and practices. This warranty is in lieu of all others, either expressed or implied.

Non-Endorsement

This test report contains only findings and results arrived at after employing the specific test procedures and standards listed herein. It is not intended to constitute a recommendation, endorsement or certification of the product or material tested. This test report must not be used by the client to claim product endorsement by ANAB or any agency of the U.S. Government.



Corporate Headquarters: 795 Marconi Avenue Ronkonkoma, NY 11779 USA Tel: (631) 737-1500 Fax: (631) 737-1497 101 New Boston Road Goffstown, NH 03045 USA Tel: (603) 497-4600 Fax: (603) 497-5281

Table of Contents

Revision History	3
Technical Information	4
General Test Information	6
Part 15.31 Measurement Standards	6
Part 15.33 Frequency range of radiated measurements	6
Part 15.35 Measurement detector function and bandwidths	6
General Requirements FCC	7
Requirements and Test Results	8
FCC Part 15.203, Antenna Requirements	8
Requirements and Test Results	
FCC Part 15.207(a), Conducted Emissions	9
Requirements and Test Results	.12
FCC Part 15.223 (a), 6 dB and 99% Occupied Bandwidth	.12
Requirements and Test Results	.15
FCC Part 15.223 (a), Fundamental Field Strength and Duty Cycle	
Requirements and Test Results	
FCC Part 15.223 (b), Harmonics and Spurious Emissions	



Retlif Testing Laboratories

Revision History

Revisions to this document are listed below; the latest revised document supersedes all previous issues of this document.

Revision - A	Date August 22, 2023 September 11, 2023	Pages Affected Original Release Global Changes:
		 Report No. R-3728P-2 changed to R- 3728P-2, Rev. A
		 Removed Models: NP12 PRI/PAB/SAB RF ANT FRAME and LOWER BASE from report and test data
В	September 25, 2023	Global Changes:
		 Report No. R-3728P-2, Rev. A changed to R-3728P-2, Rev. B
		1, 4:
		 Changed Model Numbers to Model Numbers Tested
		5:
		 Added title <i>Model Variants</i> to the product family



Retlif Testing Laboratories

	Technical Information
Report Number:	R-3728P-2, Rev. B
Applicant:	Checkpoint Systems, Inc.
Address:	101 Wolf Drive
_	Thorofare, New Jersey 08086
Manufacturer:	Checkpoint Systems, Inc.
Manufacturer Address:	Checkpoint System (Jiangsu) Co Ltd
_	Haian Economic & Technical Development Zone
_	No. 15 (East) Nan Hai Road
_	Nantong Jiangsu, China
FRN:	0004326823
Test Sample:	Antenna Pedestal
Model Numbers Tested:	NP12 PRI/PAB, NP12 SAB
FCC ID:	DO4NEO2PS
Power Requirements: _	120 VAC, 60 Hz
Frequency of Operation:	7.975, 8.125, 8.275, and 8.425 MHz
Equipment Class:	FAP
Equipment Use:	Fixed – Theft Deterrent System
Test Specification: FCC Rules and Regulations Pa	art 15, Subpart C, Section 15.223
Test Procedure : ANSI C63.4:2014 ANSI C63.10:2013	
Test Facility: Retlif Testing Laboratories 3131 Detwiler Road Harleysville, PA 19438	
FCC Accreditation Designation	Number: US2321
	Retlif Testing Laboratories

Tests Performed

The test methods performed on the Antenna Pedestal are shown in Table 1 below:

FCC Test Method Part 15, Subpart C		Results
15.203	Antenna Requirements	Complied
15.207 (a)	Conducted Emissions	Complied
15.223 (a)	6 dB and 99% Bandwidth	Complied
15.223 (a)	Fundamental Field Strength	Complied
15.223 (b)	Field Strength of Harmonics and Spurious outside of band	Complied

Table 1 – Test Methods

Model Variants:

The Antenna Pedestal tested was provided as worst case configuration in accordance with Checkpoint Systems, Inc. The Neo v2.0 PAB/SAB family consists of the following versions:

- NP12 PRI/PAB
- NP12 SAB
- NP22 PRI/PAB
- NP22 SAB
- NG12 PRI/PAB RF PED
- NG12 SAB RF PED



All test methods listed above are included in Retlif Testing Laboratories ANSI National Accreditation Board (ANAB), ISO/IEC 17025 Scope of Accreditation, Certificate Number: L2320.02.



Retlif Testing Laboratories

General Test Information

Part 15.31 Measurement Standards

- Testing was performed using the procedures specified in ANSI C63.10:2013 in accordance with 15.31(a)(3).
- Testing was performed with the transmitter continuously transmitting at the selected frequency in accordance with 15.31(c).
- Field strength measurements were made on an Open Area Test Site in accordance with 15.31(d).
- Field strength measurements were made at a distance closer than specified in the regulations. The results were extrapolated to the specified test distance by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Sample Calculation:

Extrapolation Factor (dB) = 40 Log (D_{Meas} / D_{Spec})

Where:

- D_{Meas} = Distance at which measurements were performed (10 Meters)
- D_{Spec} = Distance at which the limit is specified (30 Meters)

•	Extrapolation Factor (dB)	= 40 Log (10/30)
		= 40 Log (0.333)
		= 40 * -0.477
		= - 19.09

- The Device under test was positioned and adjusted to maximize the level of emissions in accordance with 15.31(g).
- The test sample operates at one discrete frequency under Part 15. All testing outlined herein was performed with the device under test operating at 120 VAC, 60 Hz.

Part 15.33 Frequency range of radiated measurements

- The radio frequency spectrum was investigated from 9 kHz to the 10th harmonic of the highest fundamental frequency as specified in 15.33(a)(1). In addition, the digital aspects of the device were evaluated under 15.109, over the frequency range of 30 MHz to 1 GHz. These results are contained with Retlif Testing Laboratories Report R-3728P-1.

Part 15.35 Measurement detector function and bandwidths

- On frequencies below or equal to 1000 MHz, measurements were made utilizing either a peak or quasi-peak detector and associated bandwidths with the exception of measurements in the frequency bands of 9 to 90 kHz and 110 to 490 kHz in which an average detector was utilized.



Retlif Testing Laboratories

General Requirements FCC

Spectrum Analyzer Desensitization Considerations

Due to the nature of the emissions being measured, a pulse desensitization calculation was utilized in order to provide accurate peak measurements. The following formula was utilized:

 τ_{eff} = Minimum Pulse Width = 4.08 µS

K = 1.5

B = Bandwidth utilized for measurement = 10 kHz

Pulse Desensitization Factor $(dB) = 20 \log_{10} \tau_{eff} \times K \times B$ Pulse Desensitization Factor $(dB) = 20 \log_{10} 4.08 \mu S \times 1.5 \times 10 kHz$ Pulse Desensitization Factor (dB) = 24.437

Duty Cycle Correction for Average Reading

In accordance with ANSI C63.10 Paragraph 7.5, the below equation was utilized in order to determine the Average value of a pulsed emission:

Transmitter On Time =0.261milliseconds (maximum per cycle)Transmitter Cycle Time =9.46milliseconds (100 ms maximum)Transmitter Duty Cycle =2.76%

CALCULATION

64 pulses of 4.08 μ s = <u>261</u> μ s Duty Cycle (0.261/9.46) = <u>2.76</u> % Correction Factor =20 log (0.0276) = <u>-31.18</u> dB



Retlif Testing Laboratories

FCC Part 15.203, Antenna Requirements

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

• Results:

In accordance with Checkpoint Systems, Inc the antenna is permanently installed.



Retlif Testing Laboratories

FCC Part 15.207(a), Conducted Emissions

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits shown in Table 2, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of the paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of Emission (MHz)	Conducted Limit (dBµV)				
	Quasi-Peak	Average			
0.15 to 0.5	66 to 56*	56 to 46*			
0.5 to 5	56	46			
5 to 30 60 50					
*Decreases due to logarithm of the frequency					

Table 2 Conducted Emission Limite

Results:

The conducted emissions observed did not exceed the limits specified in Table 2.

Equipment List:

EN	Manufacturer	Model No.	Description	Serial No.	Due Date
8079	ROHDE &	ESH3	RECEIVER, EMI, 9 kHz - 30 MHz	861742/012	6/30/2023
8366A	RETLIF	20' BNC	CABLE, COAXIAL, 10 KHz - 1 GHz	n/a	5/31/2024
8496	NARDA MICROWAVE	768-10	ATTENUATOR, COAXIAL, 10 dB, DC - 11 GHz, 20 W	04105	6/30/2023
8633	SOLAR ELECTRONICS	21106-50-BP- 25-BNC	LISN, 50 uH, 150 kHz - 30 MHz	21106141201	9/30/2023
8634	SOLAR ELECTRONICS	21106-50-BP- 25-BNC	LISN, 50 uH, 150 kHz - 30 MHz	21106141202	9/30/2023
8662	DIGI-SENSE	20250-30	HYGROMETER, 0 - 50 deg. c, 10 - 90 % RH	151210305	10/31/2023
8749	RIGOL	DSA832E	ANALYZER, SPECTRUM, 9 kHz - 3.2 GHz	DSA8G201800 133	5/31/2024



Retlif Testing Laboratories

EMISSIONS TEST DATA SHEET					
FCC Part 15, Subpart C, Section 15.207					
ANSI C63.10, Section 6.2, AC power-line conducted emission measurements					
R- 3728P-2 / Checkpoint Systems, Inc					
Antenna Pedestal					
Model Number: NP12 PRI/PAB, NP12 SAB					
Serial Number: 1003722700E1383006 (PRI/PAB lower base), 1003722900E1153003 (SAB lower base)					
Operating Mode: TX=31, RX=31, ST BT, LM Wi-Fi, Visiplus, I/O cables on GPIO's					
K. Stroman					
6/13/2023					
22.5℃					
50%					
120 VAC, 60 Hz, Hot					
The frequency range was scanned from 0.15 MHz to 30 MHz.					

The six highest emissions relative to the limit are presented. The emissions observed from the EUT do not exceed the specified limits.

Frequency	Detector	Meter Reading	Total Correction Factor	Corrected Reading	Limit	Margin
MHz	_	dBµV	dB	dBµV	dBµV	dB
0.2419	Peak	34.3	10.2	44.5*		
0.2419	Quasi-Peak	23.5	10.2	33.7	62.0	28.3
0.2419		14.4	10.2	24.6	52.0	20.3
0.2419	Average	14.4	10.2	24.0	52.0	27.4
0.3947	Peak	31.2	10.2	41.4*	_	_
0.3947	Quasi-Peak	18.1	10.2	28.3	58.0	29.7
0.3947	Average	-7.6	10.2	2.6	48.0	45.4
7.9080	Peak	31.6	10.4	42.0*	_	_
7.9080	Quasi-Peak	25.2	10.4	35.6	60.0	24.4
7.9080	Average	16.2	10.4	26.6	50.0	23.4
8.4520	Peak	34.7	10.4	45.1*	_	_
8.4520	Quasi-Peak	28.1	10.4	38.5	60.0	21.5
8.4520	Average	20.5	10.4	30.9	50.0	19.1
	-					
22.5840	Peak	24.6	10.6	35.2*	_	_
22.5840	Quasi-Peak	11.5	10.6	22.1	60.0	37.9
22.5840	Average	1.0	10.6	11.6	50.0	38.4
24.4300	Peak	25.1	10.6	35.7*	_	
24.4300	Quasi-Peak	16.2	10.6	26.8	60.0	33.2
24.4300	Average	3.3	10.6	13.9	50.0	36.1

* Peak measurements are recorded for informational purposes only.



Retlif Testing Laboratories

EMISSIONS TEST DATA SHEET					
Test Specification: FCC Part 15, Subpart C, Section 15.207					
Method:	ANSI C63.10, Section 6.2, AC power-line conducted emission measurements				
Job Number/Customer:	R- 3728P-2 / Checkpoint Systems, Inc				
Test Sample:	Antenna Pedestal				
Model Number:	Model Number: NP12 PRI/PAB, NP12 SAB				
Serial Number:	Serial Number: 1003722700E1383006 (PRI/PAB lower base), 1003722900E1153003 (SAB lower base)				
Operating Mode:	Operating Mode: TX=31, RX=31, ST BT, LM Wi-Fi, Visiplus, I/O cables on GPIO's				
Technician:	K. Stroman				
Date(s):	6/13/2023				
Temperature:	22.5℃				
Relative Humidity:	50%				
Lead Tested:	120 VAC, 60 Hz, Neutral				
The frequency range was scar	nned from 0.15 MHz to 30 MHz.				
The six highest emissions rela	tive to the limit are presented.				

The emissions observed from the EUT do not exceed the specified limits.

Frequency	Detector	Meter Reading	Total Correction Factor	Corrected Reading	Limit	Margin
MHz	_	dBµV	dB	dBµV	dBµV	dB
0.4480	Peak	29.1	10.2	39.3*		
0.4480	Quasi-Peak	17.2	10.2	27.4	56.9	29.5
0.4480	Average	-7.6	10.2	2.6	46.9	53.4
2.5800	Peak	29.4	10.2	39.6*		
2.5800	Quasi-Peak	24.4	10.2	34.6	56.0	21.4
2.5800	Average	20.9	10.2	31.1	46.0	14.9
8.2590	Peak	28.5	10.4	38.9*	_	_
8.2590	Quasi-Peak	24.6	10.4	35.0	60.0	25.0
8.2590	Average	18.0	10.4	28.4	50.0	21.6
12.5300	Peak	27.8	10.4	38.2*	_	_
12.5300	Quasi-Peak	23.8	10.4	34.2	60.0	25.8
12.5300	Average	18.3	10.4	28.7	50.0	21.3
21.9400	Peak	29.7	10.6	40.3*	_	_
21.9400	Quasi-Peak	22.4	10.6	33.0	60.0	27.0
21.9400	Average	13.5	10.6	24.1	50.0	25.9
24.6200	Peak	26.7	10.6	37.3*		-
24.6200	Quasi-Peak	17.0	10.6	27.6	60.0	32.4
24.6200	Average	4.1	10.6	14.7	50.0	35.3

* Peak measurements are recorded for informational purposes only.



Retlif Testing Laboratories

FCC Part 15.223 (a), 6 dB and 99% Occupied Bandwidth

If the bandwidth of the emission is less than 10% of the center frequency, the field strength shall not exceed 15 microvolts/meter or (the bandwidth of the device in kHz) divided by (the center frequency of the device in MHz) microvolts/meter at a distance of 30 meters, whichever is the higher level. For the purposes of this section, bandwidth is determined at the points 6 dB down from the modulated carrier.

• Results:

The 6dB bandwidth of the device was 746.3 kHz.

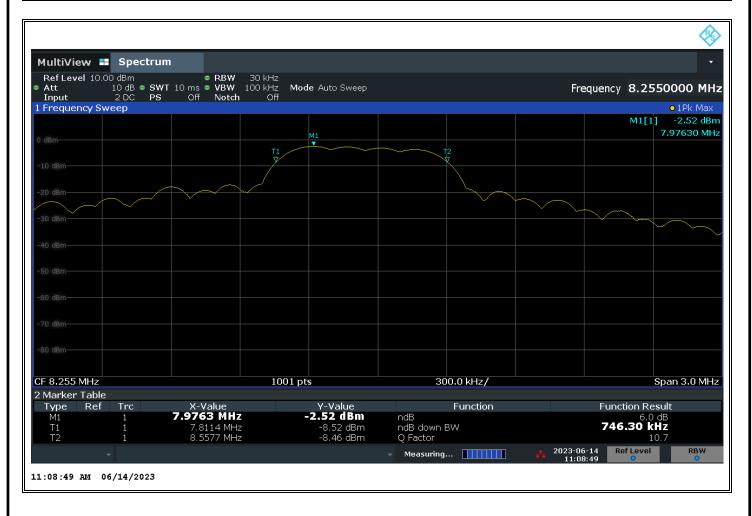
Equipment List:

EN	Manufacturer	Model No.	Description	Serial No.	Due Date
3207	ETS / EMCO	6502	ANTENNA, ACTIVE LOOP, 9 kHz - 30 MHz	1033	5/31/2024
8816	ROHDE &	ESW26	RECEIVER, EMI, 1 Hz - 26 GHz	103087	8/31/2023
8820	AMPHENOL	CO- 058BNCX200-010	CABLE, COAXIAL, DC - 1 GHz	NSN	12/31/2023



Retlif Testing Laboratories

EMISSIONS TEST DATA SHEET							
Test Specification:	FCC Part 15, Subpart B, Section 15.223(a), Occupied Bandwidth						
Method:	Occupied Bandwidth, 6dB						
Job Number/Customer:	R- 3728P-2 / Checkpoint Systems, Inc						
Test Sample: Antenna Pedestal							
Model Number:	NP12 PRI/PAB, NP12 SAB						
Serial Number:	1003722700E1383006 (PRI/PAB lower base), 1003722900E1153003 (SAB lower base)						
Operating Mode:	TX=31, RX=31, ST BT, LM Wi-Fi, Visiplus, I/O cables on GPIO's						
Technician:	M. Nowak						
Date:	6/14/2023						
6 dB Occupied Bandwidth:	746.3 kHz						





Retlif Testing Laboratories

EMISSIONS TEST DATA SHEET							
Test Specification:	FCC Part 15, Subpart B, Section 15.223(a), Occupied Bandwidth						
Method:	Occupied Bandwidth, 99%						
Job Number/Customer:	R- 3728P-2 / Checkpoint Systems, Inc						
Test Sample:	Antenna Pedestal						
Model Number:	NP12 PRI/PAB, NP12 SAB						
Serial Number:	1003722700E1383006 (PRI/PAB lower base), 1003722900E1153003 (SAB lower base)						
Operating Mode:	TX=31, RX=31, ST BT, LM Wi-Fi, Visiplus, I/O cables on GPIO's						
Technician:	M. Nowak						
Date:	6/14/2023						
99% Occupied Bandwidth:	1.7085 MHz						
Bandwidth:							





Report No. R-3728P-2, Rev. B

®

FCC Part 15.223 (a), Fundamental Field Strength and Duty Cycle

The field strength of any emission within the band 1.705-10.0 MHz shall not exceed 100 microvolts/meter at a distance of 30 meters. The emission limits in this paragraph are based on measurement instrumentation employing an average detector. The provisions in §15.35(b) for limiting peak emissions apply.

• Results:

The device was operated at a frequency of 8.255 MHz. The maximum Peak reading was 687.86 μ V/m. The maximum average reading was 18.99 μ V/m.

Table 3 - Field Strength of Emissions Limits						
Fundamental Frequency Peak Field Strength Limit Average Field Strength Limit						
8.255 MHz	904 μV/m	90.4 µV/m				

Equipment List:

EN	Manufacturer	Model No.	Description	Serial No.	Due Date
3207	ETS / EMCO	6502	ANTENNA, ACTIVE LOOP, 9 kHz - 30 MHz	1033	5/31/2024
5272	ROHDE &	ESPC	RECEIVER, EMI, 150 kHz - 1 GHz	843820/023	4/30/2024
8300C	UNKNOWN	3 METER CABLE	CABLE, COAXIAL, 3/10 METER	N/A	8/31/2023
8644	AGILENT / HP	85662A	ANALYZER, SPECTRUM, 100 Hz - 22 GHz	2848A18175	9/30/2023
8644A	AGILENT / HP	8566B	ANALYZER, SPECTRUM, 100 Hz - 22.5 GHz	2937A06124	9/30/2023
8668	DIGI-SENSE	20250-31	HYGROMETER, 0 - 50 deg. c, 10 - 90 % RH	140908984	10/31/2023



Retlif Testing Laboratories

15.223(a) Fundamental Field Strength Test Data



Retlif Testing Laboratories

[
EMISSIONS TEST DATA SHEET							
Test Specification:	FCC Part 15, Subpart B, Section 15.223(a), Fundamental Field Strength						
Method:	ANSI C63.10, Section 6.4, Radiated Emission From Unlicensed <30 MHz						
Job Number/Customer:	R- 3728P-2 / Checkpoint Systems, Inc						
Test Sample:	Antenna Pedestal						
Model Number:	NP12 PRI/PAB, NP12 SAB						
Serial Number:	1003722700E1383006 (PRI/PAB lower base), 1003722900E1153003 (SAB lower base)						
Operating Mode:	TX=31, RX=31, ST BT, LM Wi-Fi, Visiplus, I/O cables on GPIO's						
Technician:	M. Nowak						
Date(s):	6/15/2023						
Temperature:	23.7 °C						
Relative Humidity:	43 %						
Detector:	Peak						
Test Distance:	10m						
Notes:							

Frequency	Antenna Orientation / Height	EUT Orientation	Meter Reading @10m	Correction Factor	Pulse Desensitization Factor	Distance Correction	Corrected Reading @ 30m	Converted Reading @ 30m	Limit @ 30m
MHz		Degrees	dBuV	dB		dB	dBuV/m	uV/m	uV/m
8.255	Perpendicular / 1.00	180.0	39.4	12.0	24.44	-19.09	56.75	687.86	904
8.255	Parallel / 1.00	270.0	37.2	12.0	24.44	-19.09	54.55	533.95	904
8.255	Parallel to Ground / 1.00	270.0	27.9	12.0	24.44	-19.09	45.25	183.02	904



Retlif Testing Laboratories

EMISSIONS TEST DATA SHEET							
Test Specification:	FCC Part 15, Subpart B, Section 15.223(a), Fundamental Field Strength						
Method:	ANSI C63.10, Section 6.4, Radiated Emission From Unlicensed <30 MHz						
Job Number/Customer:	R- 3728P-2 / Checkpoint Systems, Inc						
Test Sample:	Antenna Pedestal						
Model Number:	NP12 PRI/PAB, NP12 SAB						
Serial Number:	1003722700E1383006 (PRI/PAB lower base), 1003722900E1153003 (SAB lower base)						
Operating Mode:	TX=31, RX=31, ST BT, LM Wi-Fi, Visiplus, I/O cables on GPIO's						
Technician:	M. Nowak						
Date(s):	6/15/2023						
Temperature:	23.7 °C						
Relative Humidity:	43 %						
Detector:	Peak (converted to average via Duty Cycle correction)						
Test Distance:	10m						
Notes:							
Duty Cycle = 2.76%, -31.18	dB						

Frequency	Antenna Orientation / Height	EUT Orientation	Corrected Peak Meter Reading	Duty Cycle Correction Factor	Corrected Reading @ 30m	Converted Reading @ 30m	Limit @ 30m
MHz		Degrees	dBuV	dB	dBuV/m	uV/m	uV/m
8.255	Perpendicular / 1.00	250.0	56.75	-31.18	25.57	18.99	90.4
8.255	Parallel / 1.00	190.0	54.55	-31.18	23.37	14.74	90.4
8.255	Parallel to Ground / 1.00	320.0	45.25	-31.18	14.07	5.05	90.4

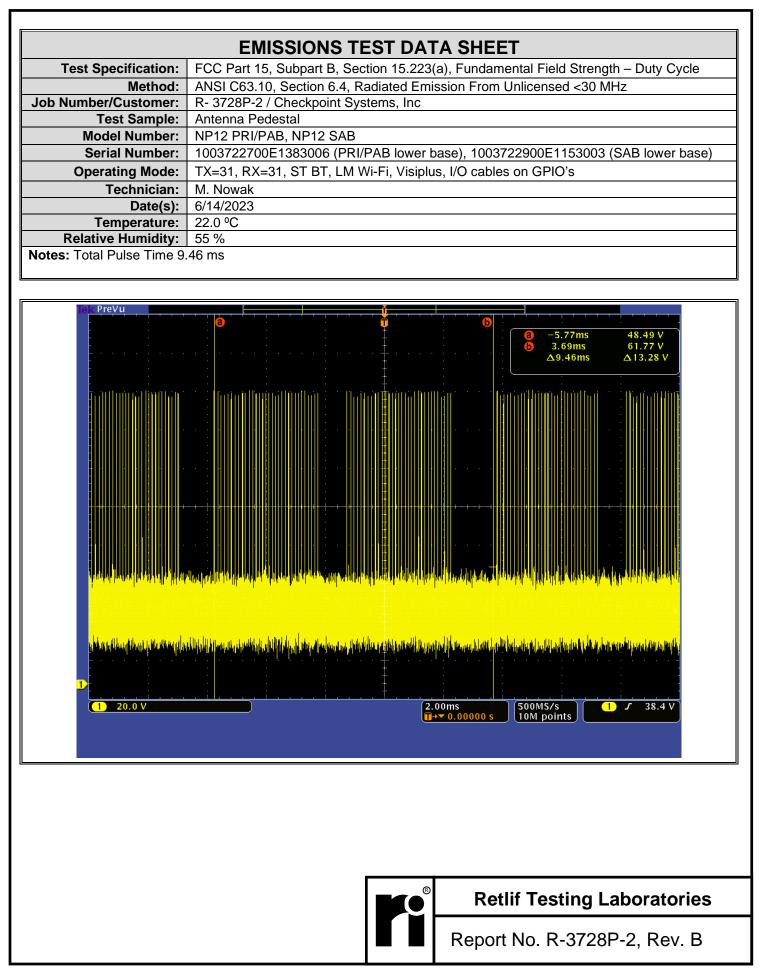


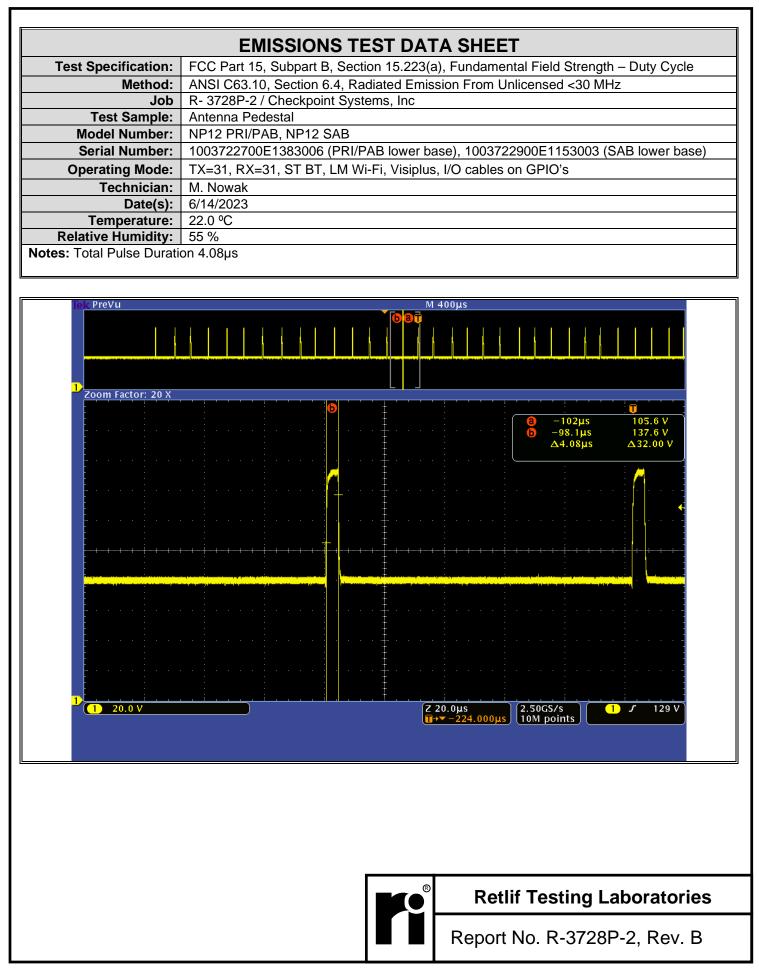
Retlif Testing Laboratories

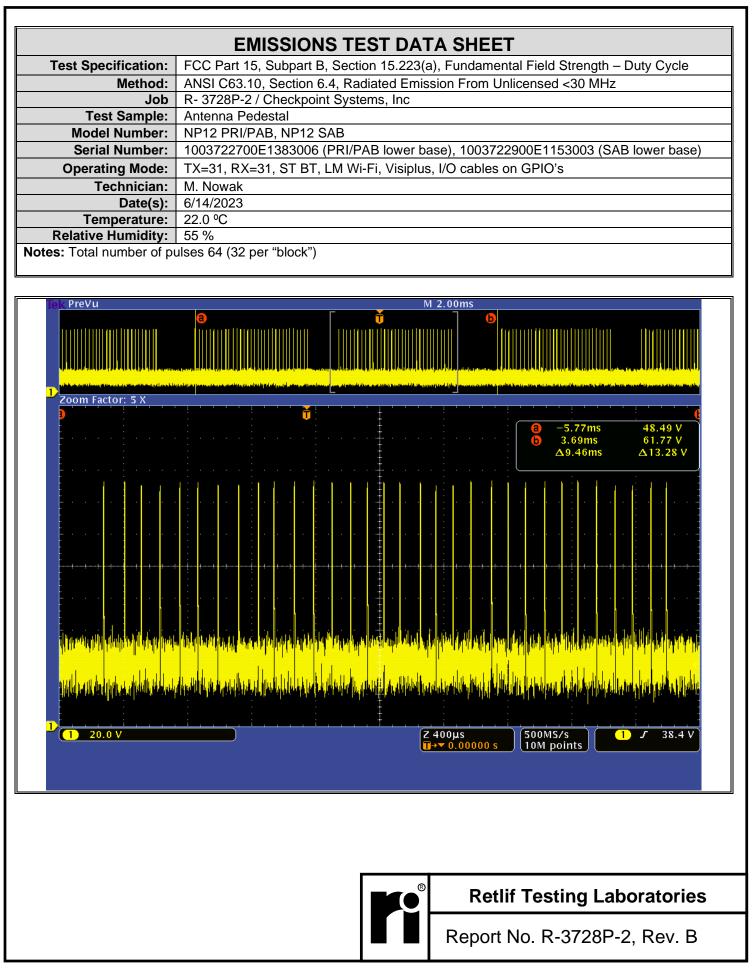
15.223(a) Fundamental Field Strength – Duty Cycle Test Data



Retlif Testing Laboratories







FCC Part 15.223 (b), Harmonics and Spurious Emissions

Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in Table 4.

Frequency of Emission (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 to 88	100	3
88 to 216	150	3
216 to 960	200	3
Above 960	500	3

Results:

The field strength of spurious radiated emissions did not exceed the limits specified in Table 4.

Equipment List:

EN	Manufacturer	Model No.	Description	Serial No.	Due Date
127A	ETS / EMCO	3104	ANTENNA, BICONICAL, 20 - 200 MHz	2319	12/31/2023
3207	ETS / EMCO	6502	ANTENNA, ACTIVE LOOP, 9 kHz - 30 MHz	1033	5/31/2024
5272	ROHDE &	ESPC	RECEIVER, EMI, 150 kHz - 1 GHz	843820/023	4/30/2024
8300	RETLIF	RPA	OPEN AREA TEST SITE, ATTENUATION, 3/10 Meter OATS	N/A	5/31/2024
8300C	UNKNOWN	3 METER CABLE	CABLE, COAXIAL, 3/10 METER	N/A	8/31/2023
8644	AGILENT / HP	85662A	ANALYZER, SPECTRUM, 100 Hz - 22 GHz	2848A18175	9/30/2023
8644A	AGILENT / HP	8566B	ANALYZER, SPECTRUM, 100 Hz - 22.5 GHz	2937A06124	9/30/2023
8644B	AGILENT / HP	85685A	ANALYZER, RF PRESELECTOR, 20 Hz - 2 GHz	2724A00532	9/30/2023
8668	DIGI-SENSE	20250-31	HYGROMETER, 0 - 50 deg. c, 10 - 90 % RH	140908984	10/31/2023



Retlif Testing Laboratories

		EIVIIS	2210112	TEST DAT	A SHEE				
Test Sp	Test Specification: FCC Part 15, Subpart C, Section 15.223(b), Harmonics and Spurious Emissions								
Method: ANSI C63.10, Section 6.4 and 6.5.									
Job Number/Customer: R- 3728P-2 / Checkpoint Systems, Inc									
Test Sample: Antenna Pedestal									
Mod	el Number:	NP12 PRI/PAB, NP12 SAB							
Seri	al Number:	1003722700E1383006 (PRI/PAB lower base), 1003722900E1153003 (SAB lower base)							
Operating Mode:			1, ST BT, LI	M Wi-Fi, Visipl	us, I/O cables	s on GPIO's			
Technician:		M. Nowak							
	Date(s):	6/15/2023							
	mperature:	23.7 °C							
Relative	e Humidity:	43 %							
Taa	Detector: at Distance:	Quasi-peak 3m							
The emissions	s observed fro	e was scannec om the EUT do			mits. The two	highest read	ings relative to	o the lim	
he emissions	s observed fro		not exceed	the specified li		o highest read	ings relative to Converted Reading	Limit	
The emissions are presented Noise floor m	s observed fro easurement, Antenna	om the EUT do minimum sens EUT	not exceed itivity of mea Meter	the specified li asurement syst	tem.	Converted	Converted	Limit at 300m	
The emissions are presented Noise floor m	Antenna Position (Par/Perp)	om the EUT do minimum sens EUT Orientation	not exceed itivity of mea Meter Reading	the specified li asurement syst Correction Factor	Corrected Reading	Converted to 300m	Converted Reading	Limit at 300m uV/m	
The emissions are presented <u>Noise floor m</u> Frequency MHz	Antenna Position (Par/Perp)	om the EUT do minimum sens EUT Orientation	not exceed itivity of mea Meter Reading	the specified li asurement syst Correction Factor	Corrected Reading	Converted to 300m	Converted Reading	Limit	
The emissions are presented <u>Noise floor m</u> Frequency MHz	Antenna Position (Par/Perp)	om the EUT do minimum sens EUT Orientation	not exceed itivity of mea Meter Reading	the specified li asurement syst Correction Factor	Corrected Reading	Converted to 300m	Converted Reading	Limit at 300m uV/m	
The emissions are presented Noise floor m Frequency MHz 0.009	Antenna Position (Par/Perp)	om the EUT do minimum sens EUT Orientation	not exceed itivity of mea Meter Reading	the specified li asurement syst Correction Factor	Corrected Reading	Converted to 300m	Converted Reading	Limit at 300m uV/m 266.67 I 4.89	
The emissions are presented Noise floor m Frequency MHz 0.009 0.490	Antenna Position (Par/Perp) / Height Antenna	EUT do EUT Orientation Degrees EUT	not exceed itivity of mea Meter Reading dBuV Meter	the specified li asurement system Correction Factor dB Correction	tem. Corrected Reading dBuV/m Corrected	Converted to 300m dBuV/m Converted	Converted Reading uV/m Converted	Limit at 300m uV/m 266.67 I 4.89 Limit at 30m	
The emissions are presented Noise floor m Frequency MHz 0.009 0.490 Frequency	Antenna Position (Par/Perp) / Height Antenna Position (Par/Perp)	EUT Orientation	not exceed itivity of mea Meter Reading dBuV Meter Reading	the specified li asurement system Correction Factor dB Correction Factor	tem. Corrected Reading dBuV/m Gorrected Reading	Converted to 300m dBuV/m Converted to 30m	Converted Reading uV/m Converted Reading	Limit at 300m uV/m 266.67 1 4.89 Limit at	
The emissions are presented Noise floor m Frequency MHz 0.009 0.490 Frequency MHz	Antenna Position (Par/Perp) / Height Antenna Position (Par/Perp)	EUT Orientation	not exceed itivity of mea Meter Reading dBuV Meter Reading	the specified li asurement system Correction Factor dB Correction Factor	tem. Corrected Reading dBuV/m Gorrected Reading	Converted to 300m dBuV/m Converted to 30m	Converted Reading uV/m Converted Reading	Limit at 300m uV/m 266.67 I 4.89 Limit at 30m uV/m	

1.705

*12.59

*20.00

30.00

Par / 1.00

Par / 1.00

180.0

180.0

6.1

6.8

®

17.8

17.4

11.7

10.6

Retlif Testing Laboratories

30.00

30.00

7.77

7.42

Report No. R-3728P-2, Rev. B

-

-

	EMISSIONS TEST DATA SHEET								
Test Sp	ecification:	FCC Part 15, Subpart C, Section 15.223(b), Harmonics and Spurious Emissions							
	Method:	ANSI C63.10, Section 6.4 and 6.5.							
Job Number	/Customer:	R- 3728P-2 / Checkpoint Systems, Inc							
Te	est Sample:	Antenna Pedestal							
Mod	el Number:	NP12 PRI/PAB, NP12 SAB							
Seri	Serial Number: 1003722700E1383006 (PRI/PAB lower base), 1003722900E1153003 (SAB lower base)								
Opera	Operating Mode: TX=31, RX=31, ST BT, LM Wi-Fi, Visiplus, I/O cables on GPIO's								
1	Technician: M. Nowak								
	Date(s): 6/15/2023								
Те	Temperature: 23.7 °C								
Relative	Relative Humidity: 43 %								
Detector: Quasi-peak									
Tes	Test Distance: 3m								
Notes: The frequency range was scanned from 30 MHz to 100 MHz The emissions observed from the EUT do not exceed the specified limits. Two highest readings relative to the limit are presented. *Noise floor measurement, minimum sensitivity of measurement system.									
Frequency	Antenna Pol /Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Limit		

Frequency	Antenna Pol /Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Limit
MHz	(V/H) / (m)	Degrees	dBuV	dB	dBuV/m	uV/m	uV/m
30.00							100
I							I
*38.00	H / 1.00	180.0	6.3	12.9	19.2	9.13	I
_							Ι
*80.00	H / 1.00	180.0	12.1	8.4	20.5	10.60	Ι
_							Ι
88.00							100
88.00							150
I							I
100.00							150



Retlif Testing Laboratories