9.4 Setup Photographs:

Confidential – Photos not included in this report

Report Number: 104989879BOX-001a

9.5 Plots/Data:

Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: 64QAM, BW: 5 MHz, Ant. Port: ANT1, Low Ch. 748.5 MHz -30 °C

MultiView	Spectrum								. V.
Ref Level 30.00 Att TDF		1.84 µs (~6.9 i	RBW 1 TIS) = VBW 3		FFT				
Occupied Ban	dwidth	_							1Pk Max
			1	-	1		1.00	MILLI	15.67 d8n 747.38100 MH
20 dBm-			0	X a a a	- Louise		172		
LŪ dBm		The	have	an mar		man	T		
dem-		/			-				
-10 dBm		1					1		-
-20 dBm	A A /	\sim	-						-
30 dBm	a read the	-					~	man	m
40 dBm-		_	-	-			-	-	
50 dBm				-			-	-	
-50 dBm								-	-
F 748.5 MHz	-		1001	pts	1	.0 MHz/			Span 10.0 MHz
Marker Table Type Ref M1 11 T2	Trc 1 1	X-Value 747.381 N 746.23364 750.73122	MHz	Y-Value 15.67 dBm 10.44 dBm 11.22 dBm	Occ Bw Occ Bw Ce Occ Bw Fre		1		Result 715 MHz 130612 MH2 388081 kHz
	Л						Measuring	10000	11.03.2022

Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: 64QAM, BW: 5 MHz, Ant. Port: ANT1, Low Ch. 748.5 MHz -20 °C

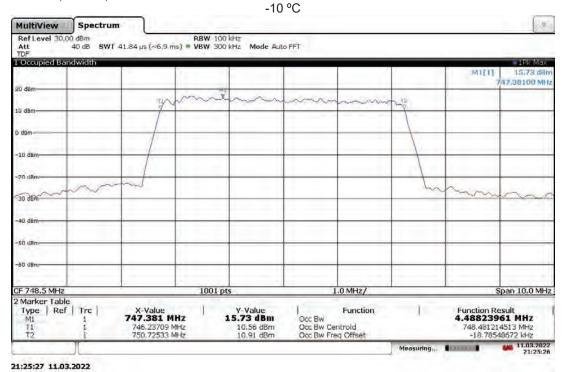
Att TDF		41.84 µs (~6.9 r		S00 kHz Mode Au	Ito FF4				
1 Occupied Bar	ndwidth	Y							1Pk Max
			1				1	MUEL	
20 d8m-				111			-	-	747,38100 MH
		TAN	m	in	mon	m	TP TP		1
10 dBm	-	7	1				T		-
				-	112		11		
0 dBm						-			
						-			
-10 dam-						-			
-20 dBm	-				-				-
~~~	$\sim$	m					-	the m	
30 dBm		1.0						~	T m
Can be an			1						
-40 d8m-					-	-	-	-	
and and a second									
-50 dBm-					-		-	-	
-60 dBm	1					-			
CF 748.5 MHz	-		100	1000		1.0 MHz/		1	Span 10.0 MHz
2 Marker Table			100	01 pts		1.0 MHZ/			Span 10.0 MHz
Type   Ref		X-Value	I.	Y-Value	1	Function	1	Function	Result
M1	1	747.381 M		16.03 dBm	Occ Bw	o tong tong		4.489798	579 MHz
11	1	746.234961		10.97 dBm	OCE BW C				856423 MHz
T2	1	750.72476.1	VE-12	11.16 dBm	Occ BW F	freq Offset		-20.143	576953 kHz

### Issued: 03/24/2022

Report Number: 104989879BOX-001a

# Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: 64QAM, BW: 5 MHz, Ant. Port: ANT1, Low Ch. 748.5 MHz

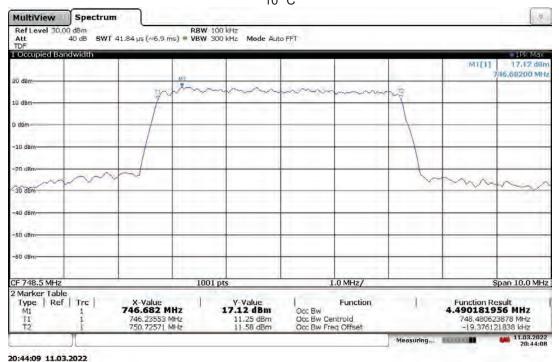
Intertek



Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: 64QAM, BW: 5 MHz, Ant. Port: ANT1, Low Ch. 748.5 MHz 0 °C

12 MultiView Spectrum RBW 100 kHz Ref Level 30.00 dBm Mode Auto FFT Att 40 dB SWT 41.84 µs (~6,9 ms) . VBW 300 kHz 1 Occupied Bandwid 1Pk Max 17.40 dBr 16,68200 MH 20 d8 12 74 10 dB ò dan -10 dB 20 1 -30 dBr 40 df -50 dB -60 dB CF 748.5 MHz 1001 pts 1.0 MHz/ Span 10.0 MHz 2 Marker Table Type | Ref | Trc | M1 1 X-Value 746.682 MHz Y-Value 17.40 dBm Function 11 Function Result 4.490843088 MHz Occ Bw Occ Bw Centrold Occ Bw Freq Offsel 748.482132721 MHz -17.867279176 kHz 11 T2 746.23671 MHz 750.72755 MHz 11.54 dBm 12.05 dBm 11.03.2022 Measuring... STREET, STR 20:59:38 20:59:38 11.03.2022

Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: 64QAM, BW: 5 MHz, Ant. Port: ANT1, Low Ch. 748.5 MHz 10 °C

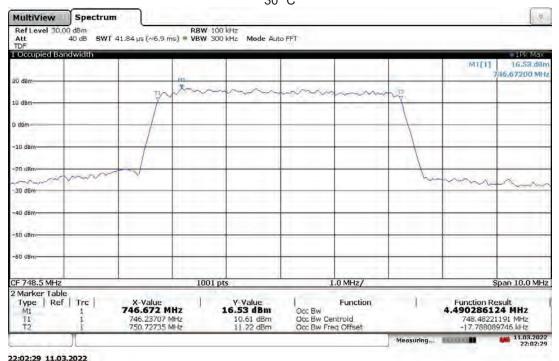


Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: 64QAM, BW: 5 MHz, Ant. Port: ANT1, Low Ch. 748.5 MHz 20 °C

MultiView Spectrum 10. Ref Level 30.00 dBm RBW 100 kHz Mode Auto FFT Att 40 dB SWT 41.84 µs (~6,9 ms) . VBW 300 kHz I Occupied Bandwidt 1Pk Max 16.70 da 8.05000 MH 20 d8 Ty-12 10 dB ò dan -10 dB 20 d - 30 de 40 d -50 df 60 de CF 748.5 MHz 1001 pts 1.0 MHz/ Span 10.0 MHz 2 Marker Table Type | Ref | Trc | M1 1 X-Value Y-Value 16.70 dBm Function 11 Function Result 4.491641479 MHz Occ Bw Occ Bw Centrold Occ Bw Freq Offset 748.05 MHz 11 T2 746.23605 MHz 750.72769 MHz 10.99 dBm 11.49 dBm 748.481873495 MHz -18.126504534 kHz 11.03.2022 Measuring... STREET, STR 20:24:15 20:24:15 11.03.2022

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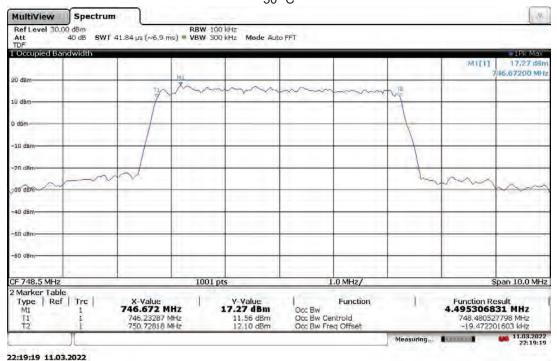
Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: 64QAM, BW: 5 MHz, Ant. Port: ANT1, Low Ch. 748.5 MHz 30 °C



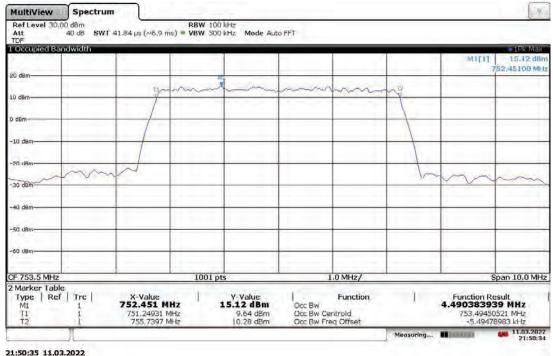
Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: 64QAM, BW: 5 MHz, Ant. Port: ANT1, Low Ch. 748.5 MHz 40 °C

38. MultiView Spectrum Ref Level 30.00 dBm RBW 100 kHz Mode Auto FFT Att 40 dB SWT 41.84 µs (~6,9 ms) . VBW 300 kHz 1 Occupied Bandwid 1Pk Max 6.81200 MH 20 d8 TE TY 10 dB ò dan -10 dB 2n de 30 dB 40 d -50 df -60 dB CF 748.5 MHz 1001 pts 1.0 MHz/ Span 10.0 MHz 2 Marker Table Type | Ref | Trc | X-Value Y-Value 17.54 dBm Function 11 Function Result 4.492753794 MHz Occ Bw Occ Bw Centrold Occ Bw Freq Offsel 746.812 MHz 748.481747668 MHz -18.252331743 kHz 11.66 dBm 12.21 dBm 11 T2 746.23537 MHz 750.72812 MHz 11.03.2022 Measuring... Income and 22:40:20 22:40:20 11.03.2022

Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: 64QAM, BW: 5 MHz, Ant. Port: ANT1, Low Ch. 748.5 MHz 50 °C

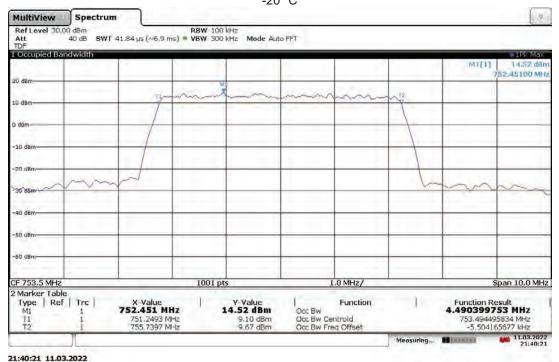


Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: 64QAM, BW: 5 MHz, Ant. Port: ANT1, High Ch. 753.5 MHz -30 °C

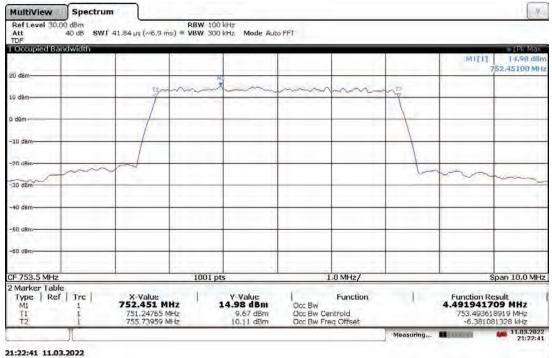


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Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: 64QAM, BW: 5 MHz, Ant. Port: ANT1, High Ch. 753.5 MHz -20 °C



Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: 64QAM, BW: 5 MHz, Ant. Port: ANT1, High Ch. 753.5 MHz -10 °C

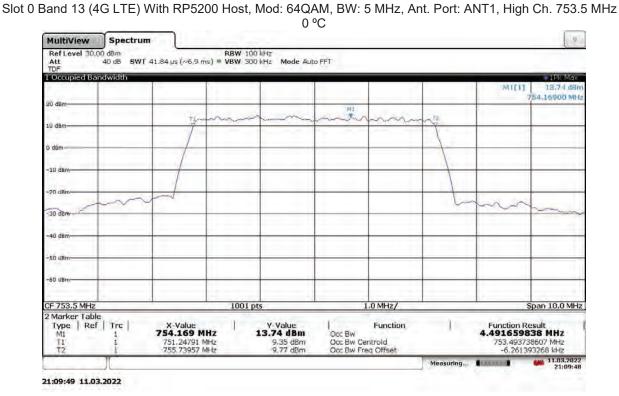


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 Client: CommScope Technologies LLC – Model: RPM-A5A11-B13 with W/ 4G LTE With OneCell[®] RP5200
 RP5200

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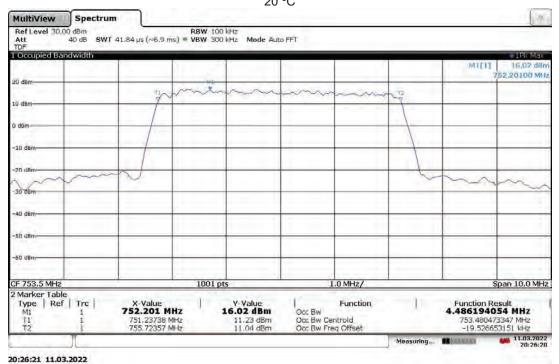
Intertek

Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: 64QAM, BW: 5 MHz, Ant. Port: ANT1, High Ch. 753.5 MHz 10 °C

38. MultiView Spectrum Ref Level 30.00 dBm RBW 100 kHz Mode Auto FFT Att 40 dB SWT 41.84 µs (~6,9 ms) . VBW 300 kHz 1 Occupied Bandwidt 1Pk Max 16:44 MICH 3,91000 MH 20 d8 12 11/ 10 dB ò dan -10 dB 20 d 30 dBr 40 df -50 dB -60 dB CF 753,5 MHz 1001 pts 1.0 MHz/ Span 10.0 MHz 2 Marker Table Type | Ref | Trc | M1 1 X-Value Y-Value 16.44 dBm Function 11 Function Result 4.487325043 MHz 753.91 MHz Occ Bw Occ Bw Centrold Occ Bw Freq Offsel 753.48096851 MHz -19.031490221 kHz 11 T2 751.23731 MHz 755.72463 MHz 11.45 dBm 11.38 dBm 11.03.2022 Measuring... COLUMN 1 20:42:19 20:42:20 11.03.2022

Non-Specific Radio Report Shell Rev. December 2017 Client: CommScope Technologies LLC – Model: RPM-A5A11-B13 with W/ 4G LTE With OneCell[®] RP5200

Slot 0 Band 13 (4G LTE) With RP5200 Hosst, Mod: 64QAM, BW: 5 MHz, Ant. Port: ANT1, High Ch. 753.5 MHz 20 °C



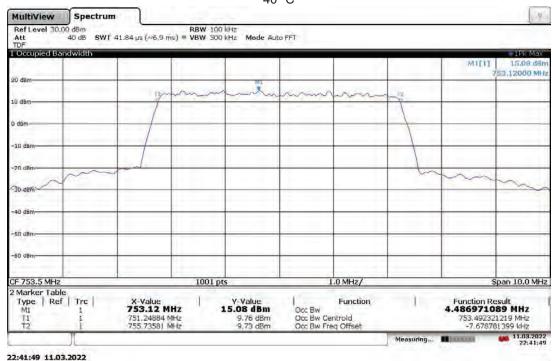
Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: 64QAM, BW: 5 MHz, Ant. Port: ANT1, High Ch. 753.5 MHz 30 °C

18 MultiView Spectrum Ref Level 30.00 dBm RBW 100 kHz Mode Auto FFT Att 40 dB SWT 41.84 µs (~6,9 ms) . VBW 300 kHz 1 Occupied Bandwid 1Pk Max MICH 14.88 (6) 2,46100 MH 20 d8 1.5 10 dB ò den -10 dB 20 d ande 4Ű ( -50 df -60 dB CF 753.5 MHz 1001 pts 1.0 MHz/ Span 10.0 MHz 2 Marker Table Type | Ref | Trc | M1 1 X-Value Y-Value 14.88 dBm Function 11 Function Result 4.492286986 MHz 752.461 MHz Occ Bw Occ Bw Centrold Occ Bw Freq Offsel 753.490607176 MHz -9.392824058 kHz 11 T2 751.24446 MHz 755.73675 MHz 8.64 dBm 9.27 dBm 11.03.2022 Measuring... 000000 22:03:53 22:03:54 11.03.2022

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 Client: CommScope Technologies LLC – Model: RPM-A5A11-B13 with W/ 4G LTE With OneCell[®] RP5200

Slot 0 Band 13 (4G LTE) With RP5200, Mod: 64QAM, BW: 5 MHz, Ant. Port: ANT1, High Ch. 753.5 MHz 40 °C



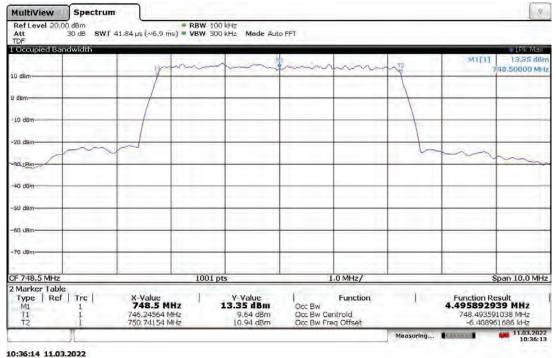
Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: 64QAM, BW: 5 MHz, Ant. Port: ANT1, High Ch. 753.5 MHz 50 °C

4 MultiView Spectrum Ref Level 30.00 dBm RBW 100 kHz Mode Auto FFT Att 40 dB SWT 41.84 µs (~6,9 ms) = VBW 300 kHz 1 Occupied Bandwidt 1Pk MICH 2,45100 MH 20 d8 10 dB ò dan -10 dB -20 d 30 da 40 d -50 df 60 de CF 753.5 MHz 1001 pts 1.0 MHz/ Span 10.0 MHz 2 Marker Table Type | Ref | Trc | X-Value Y-Value 14.98 dBm Function 11 Function Result 4.490666843 MHz 752.451 MHz Occ Bw Occ Bw Centrold Occ Bw Freq Offsel 753.493085161 MHz 11 T2 751.24775 MHz 755.73842 MHz 9.55 dBm 9.93 dBm -6.914839277 kHz 11.03.2022 Measuring... Income and 22:17:51 22:17:51 11.03.2022

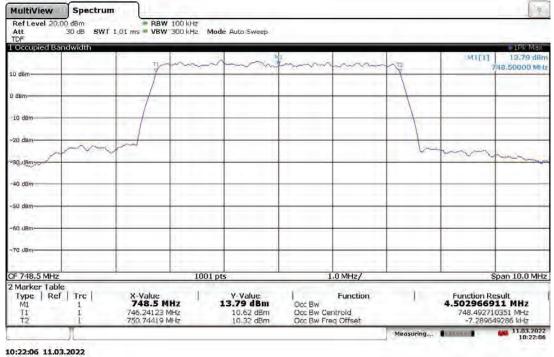
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 Client: CommScope Technologies LLC – Model: RPM-A5A11-B13 with W/ 4G LTE With OneCell[®] RP5200

Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: QPSK, BW: 5 MHz, Ant. Port: ANT1, Low Ch. 748.5 MHz 41.1 VDC



Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: QPSK, BW: 5 MHz, Ant. Port: ANT1, Low Ch. 748.5 MHz 48 VDC

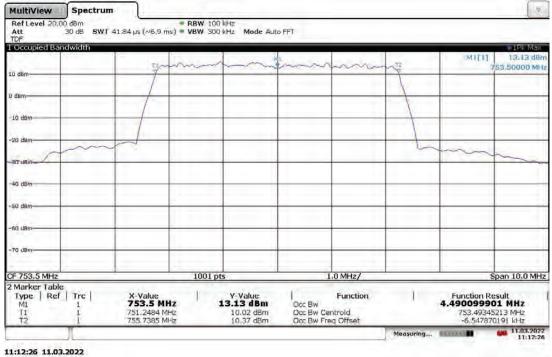


Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: QPSK, BW: 5 MHz, Ant. Port: ANT1, Low Ch. 748.5 MHz 57 VDC

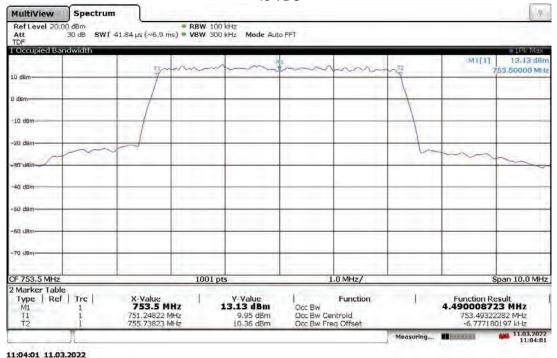
Intertek

Att TDF	terres and	1.84 µs (~6,9 m	ie) . ARM 200	kHz Mode Aut	o FFI			The bell and the second
l Occupied Ba	ndwidth	_		- 3	1			MICII 13/10 dan
		1m	m	m	imm	m	TP	7,48,50000 MH
10 dBm-		1					1	
0 dem-								
a sent		1	11	1				
10 dam							1	
-20 dam	m	1						
-30, dBm					1		-	my
and down to								
40 d8m						-		
-50 d8m								
-60 d8m-								
au uam								
-70 dBm							_	
CF 748.5 MHz	4		1001 pt	s	1	.0 MHz/	-1	Span 10.0 MHz
2 Marker Tabl		Store .	1	and a second	1.5	Sec. as	2	Setting to the
Type   Ref	Trc	X-Value 748.5 M	Hz	Y-Value 13.40 dBm	Occ Bw	Function	1	Function Result 4.495193863 MHz
T1	ŧ	746.24589 M	MHz.	9.62 dBm	Occ Bw Cer			748.493486231 MHz
T2	1	750.74108 1	V8-12	10.86 dBm	Occ Bw Fre	of Offset	Measuring	-6.513768787 kHz

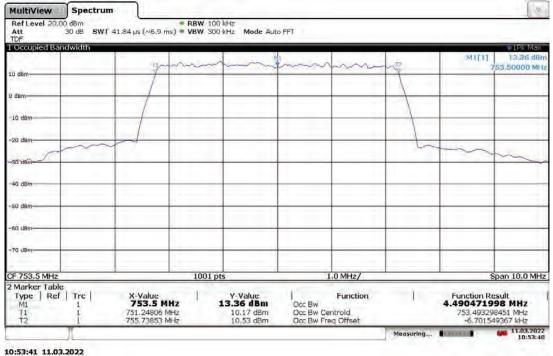
Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: QPSK, BW: 5 MHz, Ant. Port: ANT1, High Ch. 753.5 MHz 41.1 VDC



Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: QPSK, BW: 5 MHz, Ant. Port: ANT1, High Ch. 753.5 MHz 48 VDC



Slot 0 Band 13 (4G LTE) With RP5200 Host, Mod: QPSK, BW: 5 MHz, Ant. Port: ANT1, High Ch. 753.5 MHz 57 VDC



	Intertek								
Report Number: 104	4989879BOX-001a		Issued: 03/24/2022						
Test Personnel:	Kouma Sinn 493	Test Date:	03/11/2022						
Supervising/Reviewing									
Engineer: (Where Applicable)	N/A								
Devident Other david	500 Dut 07		One manufacture of the						
Product Standard: Input Voltage:	48VDC (POE)	Limit Applied:	See report section 9.3						
			22.00						
Pretest Verification w/ Ambient Signals or		Ambient Temperature:	23 °C						
BB Source:	N/A	Relative Humidity:	10 %						
		Atmospheric Pressure:	1010 mbars						

Deviations, Additions, or Exclusions: None

# 10 Transmitter spurious emissions

# 10.1 Method

Tests are performed in accordance with ANSI C63.26 and CFR47 FCC Parts 2.1051, 2.1053, 2.1057, and 27.

### TEST SITE: EMC Lab & 10m ALSE

**The EMC Lab** has one Semi-anechoic Chamber and one Shielded Chamber. AC Mains Power is available at 120, 230, and 277 Single Phase; 208, 400, and 480 3-Phase. Large reference ground-planes are installed in the general lab area to facilitate EMC work not requiring a shielded environment.

**The 10m ALSE** is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

### Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucispr
Radiated Emissions, 10m	30-1000 MHz	4.6dB	6.3 dB
Radiated Emissions, 3m	30-1000 MHz	5.3 dB	6.3 dB
Radiated Emissions, 3m	1-6 GHz	4.5 dB	5.2 dB
Radiated Emissions, 3m	6-15 GHz	5.2 dB	5.5 dB
Radiated Emissions, 3m	15-18 GHz	5.0 dB	5.5 dB
Radiated Emissions, 3m	18-40 GHz	5.0 dB	5.5 dB

As shown in the table above our radiated emissions  $U_{lab}$  is less than the corresponding  $U_{CISPR}$  reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

# Sample Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

CF - AG
FS = Field Strength in $dB\mu V/m$
RA = Receiver Amplitude (including preamplifier) in $dB\mu V$
CF = Cable Attenuation Factor in dB
AF = Antenna Factor in dB
AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of 52.0 dB $\mu$ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB $\mu$ V/m. This value in dB $\mu$ V/m was converted to its corresponding level in  $\mu$ V/m.

 $\label{eq:result} \begin{array}{l} {\sf RA} = 52.0 \ {\sf dB}\mu {\sf V} \\ {\sf AF} = \ 7.4 \ {\sf dB}/{\sf m} \\ {\sf CF} = \ 1.6 \ {\sf dB} \\ {\sf AG} = 29.0 \ {\sf dB} \\ {\sf FS} = 32 \ {\sf dB}\mu {\sf V}/{\sf m} \end{array}$ 

To convert from  $dB\mu V$  to  $\mu V$  or mV the following was used:

UF =  $10^{(NF/20)}$  where UF = Net Reading in  $\mu V$ NF = Net Reading in dB $\mu V$ 

# Example:

FS = RA + AF + CF - AG = 52.0 + 7.4 + 1.6 - 29.0 = 32.0 UF =  $10^{(32 \text{ dB}\mu\text{V}/20)}$  = 39.8  $\mu\text{V/m}$ 

Alternately, when BAT-EMC Emission Software is used, the "Level" includes all losses and gains and is compared directly in the "Margin" column to the "Limit". The "Correction" includes Antenna Factor, Preamp, and Cable Loss. These are already accounted for in the "Level" column.

# 10.2 Test Equipment Used:

Test equipment used for antenna port conducted emissions

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DS40'	Temp, humidity, pressure gauge	Digi Sense	68000-49	181717625	11/09/2021	11/09/2022
ROS005-1'	Signal and Spectrum Analyzer	Rohde and Shwartz	FSW43	100646	11/02/2021	11/02/2022
CEN001'	DC-40GHz attenuator 20dB	Centric RF	C411-20	CEN001	01/26/2022	01/26/2023
CBLHF2012-2M-2'	2m 9kHz-40GHz Coaxial Cable - SET2	Huber & Suhner	SF102	252675002	02/10/2022	02/10/2023
DAV005'	Weather Station	Davis	6250	MS191218083	02/11/2022	02/11/2023

### Software Utilized:

Name	Manufacturer	Version
None		

#### Test equipment used for radiated emissions, 9 kHz-30 MHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007'	Weather Station Vantage Vue	Davis	6250	MS191212003	03/08/2022	03/08/2023
145-414'	Cables 145-400 145-403 145-405 145-409	Huber + Suhner	3m Track A cables	multiple	07/09/2021	07/09/2022
IW001'	2 meter cable	Insulated Wire	2801-NPS	001	09/23/2021	09/23/2022
IW002'	2 meter Armored cable	Insulated Wire	2800-NPS	002	09/23/2021	09/23/2022
CBL051'	9kHz to 1GHz BNC/ BNC Cable	Belden	RG58A/U	none	04/16/2021	04/16/2022
145108'	EMI Test Receiver (20Hz - 40GHz)	Rohde & Schwarz	ESIB40	100209	06/22/2021	06/22/2022
ETS003	9kHz-30MHz Active Loop Antenna	ETS Lindgren	6502	00143396	08/26/2021	08/26/2022

#### Test equipment used for Radiated emissions, 30-1000 MHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
IW001'	2 meter cable	Insulated Wire	2801-NPS	001	09/23/2021	09/23/2022
145106'	Bilog Antenna (30MHz - 5GHz)	Sunol Sciences	JB5	A111003	07/22/2021	07/22/2022
HS002'	DC-18GHz cable 1.5M long	Huber & Suhner	SucoFlex 106A	HS002	12/06/2021	12/06/2022
IW006'	DC-18GHz cable 8.4m long	Insulated Wire	2800-NPS	IW006	07/22/2021	07/22/2022
PRE11'	50dB gain pre-amp	Pasternack	PRE11	PRE11	09/02/2021	09/02/2022
DAV007'	Weather Station Vantage Vue	Davis	6250	MS191212003	03/08/2022	03/08/2023
145145'	Broadband Hybrid Antenna 30 MHz - 3 GHz	Sunol Sciences Corp.	JB3	A122313	06/09/2021	06/09/2022
145108'	EMI Test Receiver (20Hz - 40GHz)	Rohde & Schwarz	ESIB40	100209	06/22/2021	06/22/2022

### Test equipment used for radiated emissions, 1-8 GHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV007'	Weather Station Vantage Vue	Davis	6250	MS191212003	03/08/2022	03/08/2023
145-414'	Cables 145-400 145-403 145-405 145-409	Huber + Suhner	3m Track A cables	multiple	07/09/2021	07/09/2022
IW001'	2 meter cable	Insulated Wire	2801-NPS	001	09/23/2021	09/23/2022
IW002'	2 meter Armored cable	Insulated Wire	2800-NPS	002	09/23/2021	09/23/2022
IW003'	8.4 meter cable	Insulated Wire	2800-NPS	003	10/15/2022	10/15/2022
145108'	EMI Test Receiver (20Hz - 40GHz)	Rohde & Schwarz	ESIB40	100209	06/22/2021	06/22/2022
ETS003'	9kHz-30MHz Active Loop Antenna	ETS Lindgren	6502	00143396	08/26/2021	08/26/2022
PRE12'	Pre-amplifier	Com Power	PAM-118A	18040117	12/06/2021	12/06/2022

#### Software Utilized:

Name	Manufacturer	Version
BAT-EMC	Nexio	3.18.0.16

# 10.3 Results:

The sample tested was found to Comply per FCC Part 27.53 (c)(1)(5) and (f) below.

FCC Part 27.53 (c)(1) – For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log (P) dB$ ;

FCC Part 27.53 (c) (5) – Compliance with the provisions of paragraph of (c)(1) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

### FCC Part 27.53(f)

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

Since the two antenna ports transmit uncorrelated data streams and use cross polarized antennas, no adjustments to the test results were applied due to MIMO operation, per KDB 662911.

# 10.4 Setup Photographs:

Confidential – Photos not included in this report

### 10.5 Plots/Data:

### Antenna Port (ANT0) Conducted Emissions, 9 kHz-30 MHz Band 13 (4G LTE), Low Channel 748.5 MHz, BW 5 MHz, Modulation 16QAM (Worst-case output power, 21.75 dBm)

TDF			3 MHz Mode A	and chieft					Count 100/100
Frequency	Sweep						1		1Rm Avg
	-+(1 -13,000 dBm		-		-		-	-	-
20 dBm									-
30 dBm					-				
40 dBm									
SU dBm-			-	-					
the manine	Contraction of the								
60 dBm-		- margare	and the second strategy	the test any over ordering series of			he have been the second	and the second second	
70 dBm				_					
80 dBm									-
90 dam									-
100 dBm									
		-	1000				· · · · · · ·		
9.0 kHz	-	_	1000 p	IS	3	3.0 MHz/	_	_	30.0 MH

19:19:52 10.03.2022

### Antenna Port (ANT0) Conducted Emissions, 30 MHz-1 GHz Band 13 (4G LTE), Low Channel 748.5 MHz, BW 5 MHz, Modulation 16QAM (Worst-case output power, 21.75 dBm)

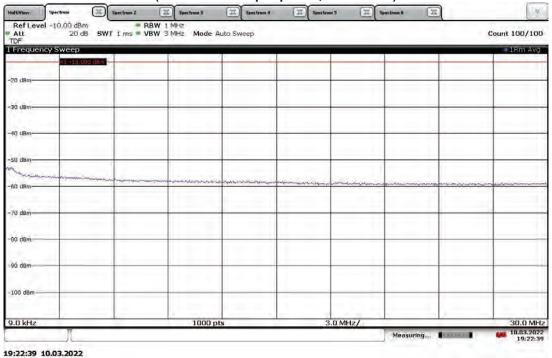
3	2	2	Spectrum 6	1	Spectrum 5	II)	Spectrum 4	2	Spectrum 3		trum	
Count 100/10							eep-	e Auto Sw	1 MHz 3 MHz Mode	ms = RBW	00 d8m 30 d8 SWT	Ref Level 2 Att TDF
1Rm Ave					_						weep	Frequency
			1						1			
-	-			_			-	-	-	_		10 dBm-
								_				dBm
				_		-						-10 dBm-
											141 -13.000 d6m -	
												-20 dBm
-				-			-	-				-30 dBm
-	and the second	-		ourse maile		-				-		-40 dBm
							_				and the second	S0 dBm
-		_	_	_		_	_	-				60 dBm
		_	-				_	_		-		70 dBm
1.0 G				1427	97.0 N		-	0 pts	10000	_		30.0 MHz
10.03.20	and the second	suring	Mea		2133							CONTRACTOR OF

#### Antenna Port (ANT0) Conducted Emissions, 1-8 GHz Band 13 (4G LTE), Low Channel 748.5 MHz, BW 5 MHz, Modulation 16QAM (Worst-case output power, 21.75 dBm)

Intertek

2	(III)	Spectrum 6	1	Spectrum	Spectrum 4	Spectrum 1	trum 2		Spectrum	MaltiView
Count 100/10					uto Sweep	1 MHz 3 MHz Mode	oms VBW	n B SWT	-10.00 dB 30 d	Ref Leve Att TDF
1Rm Avg									y Sweep	Frequen
	MI					1		00 d9m	11-13.0	
1.000000 G	_		_				_			-20 dBm
										-30 dBm
North Concession of the local division of the local division of the local division of the local division of the		a contractor					the second s		-	-140 dBm
		all the second state of the	Printer and		and the state of t		Land Land			Piperson Mithageneration
		1	_			1.2.2.0				-SU dBm
-										-60 dBm
_		-	_							-70 d8m
										-90 dBm
	1									90 dam
		10.00	_		-	11-1-1-0				90 00m
			_							-100 dBm
8.0 GH	-		0 MHz/	700	-	10000 p				1.0 GHz
10.03.202 19:21:5		Measuring		700		10000		_	T	

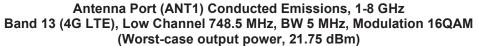
Antenna Port (ANT1) Conducted Emissions, 9 kHz-30 MHz Band 13 (4G LTE), Low Channel 748.5 MHz, BW 5 MHz, Modulation 16QAM (Worst-case output power, 21.75 dBm)



#### Antenna Port (ANT1) Conducted Emissions, 30 MHz-1 GHz Band 13 (4G LTE), Low Channel 748.5 MHz, BW 5 MHz, Modulation 16QAM (Worst-case output power, 21.75 dBm)

Intertek

MaltiView	Spectrum		Spectrum 2	(2	Spectrum 3	1	Spectrum 4	23 Spectro	m 5 🗵	Spectrum 6	2		4
Ref Level Att TDF	20.00 d8m 30 d8	SWT		RBW 1 VBW 3	MHZ MHZ Mode	Auto Sv	veep-						Count 100/100
Frequen	cy Sweep												IRm Avg.
10000	and the second				1		1						
10 dBm	-	_				-	-	-					
0 dBm	_	_				-				_			
-10 dBm	41 13.00	0 dAm											
-20 dBm	-					-							
-30 dBm	-	_				-						-	-
-40 dBm		-				-	and the second				-		
S0 dBm	and a second second second	and the second		and an									
60 dam	_	_				-	_			_	_		
70 dBm		_				-	_						
30.0 MHz		_	-		10000	pts	-	9	7.0 MHz/			-	1.0 GH
										Meas	uring	CONTRACTOR OF THE OWNER OWNE	10.03.202 19:23:00

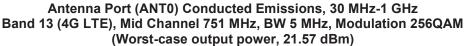


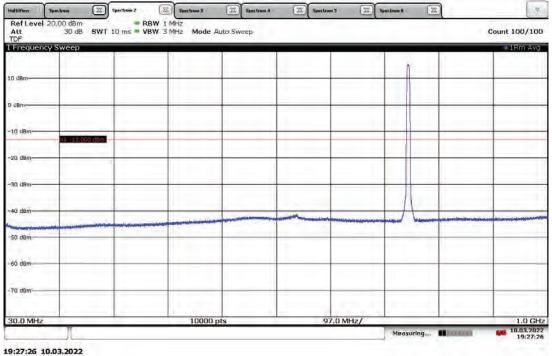
	ectrum 6		Spectrum	4 🖾	(X) Spectrum	Spectrum 1	Spectrum 2	trum	MultiView Spe
Count 100					Auto Sweep	BW 1 MHz BW 3 MHz Mode			Ref Level -1 Att TDF
= 1Rm								weep	I Frequency S
MI[1] -43.71					1	1		41-13.000 dBm	
1,00000				1					
			-	-	1	-			-20 dBm-
			-	-	-	_		-	-30 dBm
			-						rit0 dBm
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					-	-			-50 dBm-
			_				_		
			-	-	-	_	-		-60 dBm-
					-	_		-	-70 d8m
				1.					( ) sent
			_						200
									-00 dBm
					1	-			90 dBm-
				-					-100 dBm
	· · · · · · ·			4		10000	-		1.0.001
8.0		0 MHz/	700	-	ots	10000	_	T	1.0 GHz
10.03 19:	Measuring Edited								

#### Antenna Port (ANT0) Conducted Emissions, 9 kHz-30 MHz Band 13 (4G LTE), Mid Channel 751 MHz, BW 5 MHz, Modulation 256QAM (Worst-case output power, 21.57 dBm)

Intertek

MaltiView	Spectrum 🐹	Spectrum 2	Spectrum 3	Spectrum 4	Spectrum 5	Spectrum 6	1
Ref Level Att TDF	-10.00 dBm 20 dB <b>S</b> *	WT 1 ms WB	W 1 MHz W 3 MHz Mode	Auto Sweep			Count 100/100
I Frequency	Sweep						IRm Avg
	H1-13,000 d9m		2	1			
-20 dBm							
-30 dBm	-		_				
-40 dBm		-	-				
-50 d8m		-		_			
Horanomi	man		mannen	-	and the second		
-60 d8m							
-70 d8m							
90 dBm							
90 dBm			_				
100 dBm			_				
9.0 kHz	-	-	1000 p	its.	3.0 N		30.0 MH
						Measuring	10.03.202





#### Antenna Port (ANT0) Conducted Emissions, 1-8 GHz Band 13 (4G LTE), Mid Channel 751 MHz, BW 5 MHz, Modulation 256QAM (Worst-case output power, 21,57 dBm)

Intertek

4	II	Spectrum 6	Spectrum 5	(X) Spectrum 4	Spectrum 1	Spectrum 2	trum	MultiView St
Count 100/100				Auto Sweep	1 MHz 3 MHz Mode	10 ms VBW	0.00 dBm 30 dB SW1	Ref Level - Att TDF
1Rm Avg							weep	Frequency
	MUL				-		H1 -13.000 d9m -	
1,00000 GH								-20 dBm-
								-30 dBm
					-		Name of Street or other	40 dBm
-								-50 dBm
								-60 dBm
-								-70 dBm
								00 dBm
								90 dBm
					1.194	_		
								-100 dBm
8.0 GH		12/	700.0 M	s	10000 (			1.0 GHz
10.03.2022 19:27:44	uring	Measu						1.10

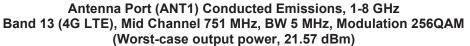
#### Antenna Port (ANT1) Conducted Emissions, 9 kHz-30 MHz Band 13 (4G LTE), Mid Channel 751 MHz, BW 5 MHz, Modulation 256QAM (Worst-case output power, 21.57 dBm)

attiView Spectrum Spectrum	trum 2 2 Spectrum 3 22	Spectrum 4	Spectrum 5	Spectrum 6	1
Att 20 dB SWT 1 DF	ms VBW 3 MHz Mode Auto S	weep			Count 100/10
Frequency Sweep					1Rm Avg
H1 -13,000 d9m					
20 dBm					
30 dBm					
t0 dBm			_		
50 dBm-				-	
N			1.1		
manus been more than the second	- marine marine and the second	manipanine	and the second second	warman and a second	
60 dBm-					
70 dBm					
00 dBm			_		
				1	
90 dam			_		
100 dBm					
			1000	and the second s	
.0 kHz	1000 pts		3.0 MHz/		30.0 MH
				Measuring ECOLOGI	10.03.202

#### Antenna Port (ANT1) Conducted Emissions, 30 MHz-1 GHz Band 13 (4G LTE), Mid Channel 751 MHz, BW 5 MHz, Modulation 256QAM (Worst-case output power, 21.57 dBm)

Intertek

MalliView 🕂	Spectrum		Spectrum 2	(23	Spectrum 3	X	Spectrum 4	I Space	um 5 🗵	Spectrum 6	22	4
Ref Level Att TDF	20.00 d8m 30 d8	SWT		BW 1 BW 3	MHZ MHZ Mode	Auto Sw	eep					Count 100/100
	cy Sweep											1Rm Avg
	1111		-							1		
10 dBm	-	_				-	-	-			-	-
0 dBm		_				-		-				
-10 dBm	-		-									
-20 dBm	01 13.00											
-30 dBm							_					_
-40 dBm	-	_					and mind allowing	and the second se				and the second second
50 dBm			-									-
60 dam-	_	_			_	-	_		_		_	-
70 dBm	_						_	_			_	_
30.0 MHz		_			10000	pts		9	07.0 MHz/		-	1.0 GH
1										Measuring		10.03.202 19:26:1



	Spectrum 🔟	Spectrum 2	Spectrum 1	(X) Spectrum 4	Z	Spectrum 5		ipectrum 6	Z)	4
Ref Level Att TDF			BW 1 MHz BW 3 MHz Mode	Auto Sweep						Count 100/100
Frequency	/ Sweep				-					1Rm Avg.
	H1-12.000 d9m	-	2					-	MIT	
										1.000000 GH
-20 dBm				1					-	-
-30 dBm				-	-	-		-	-	-
sto dBm-										
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			The second se	A CONTRACTOR OF A CONTRACTOR OFTA CONT						
-SU dBm					-	-	_		-	-
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-60 d8m					-	-		-	-	
and a										
-70 dBm			1							
80 dBm		-		-	-	-			-	-
90 dam-									-	
	1							10.000		
10 mil		-								
-100 dBm										
								1.0.000	1.000	100.00
1.0 GHz	1.	-	10000	pts		700.0 M	AHz/	1	1.	8.0 GHz
	The second se							Measuring	Concession of the local division of the loca	10.03.2022 19:26:37
							_		-	19:26:37

#### Antenna Port (ANT0) Conducted Emissions, 9 kHz-30 MHz Band 13 (4G LTE), High Channel 753.5 MHz, BW 5 MHz, Modulation QPSK (Worst-case output power, 21.38 dBm)

Intertek

MaltiView	Spectrum	Spectrum 2	Spectrum 3	Spectrum 4	Spectrum 5	Spectrum 6	I	17
Ref Leve Att TDF	l -10.00 dBn 20 dt		RBW 1 MHz /BW 3 MHz Mode	Auto Sweep				Count 100/100
	cy Sweep							1Rm Avg
	H1-13.00	ia dêm	2	1				-
-20 dBm			-	-				-
-30 dBm								
							11	
-40 dBm								
-SU dBm	_							
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-70 d8m	-		_			_	-	-
00 dBm	_		_					-
90 dBm-	_							
100 dBm-								
and dent						111 A		
9.0 kHz		44-	1000 (	ots	3.0 M	42/		30.0 MH
	JL					Measuring	g <b>Mi</b> kanan	10.03.202 19:29:0

#### Antenna Port (ANT0) Conducted Emissions, 30 MHz-1 GHz Band 13 (4G LTE), High Channel 753.5 MHz, BW 5 MHz, Modulation QPSK (Worst-case output power, 21.38 dBm)

Maltimy	Spectrum 2	Spectrum 2	Spectrum 3	Spectrum -		Spactrum 5	I	Spectrum 6		4
Ref Level Att TDF	20.00 d8m 30 d8 SV	T 10 ms VB	W 1 MHz W 3 MHz Mode /	Auto Sweep						Count 100/100
Frequen	cy Sweep									1Rm Avg
	-		1					- C		
b at i								1		
0 dBm-	11						-			
dBm-			1	1					1	
				1.000						
-10 dBm-	13 13.000 48		-	-						
		-		-		_				
-20 dBm										
-30 dBm-			_	1		-				
								1		-
-40 dBm					-	the second	in the second		1.0.000	
			and the product of the standard of the							
S0 dBm										
60 dBm					1				1	
										_
70 dBm						-				
				1.11	1.1			1 10 10 10 10	1	-
30.0 MHz		1	10000	pts	-	97.0 M	Hz/	1	1	1.0 GH
	1							Measuring	100010	10.03.202
	0.03.2022		10000	pts		97,0 M	Hz/	Measuring	00000	1.0 G

#### Antenna Port (ANT0) Conducted Emissions, 1-8 GHz Band 13 (4G LTE), High Channel 753.5 MHz, BW 5 MHz, Modulation QPSK (Worst-case output power, 21.38 dBm)

Intertek

um 1 🔣 Spectrum 4 🖾 Spectrum 5 🖾 Sp	pectrum 6 III
Mode Auto Sweep	Count 100/10
	1Rm Avg
	MITI] -43.74 dB
_	1,000000-G)
10000 pts 700.0 MHz/	8.0 GH
	Measuring 10.03.202

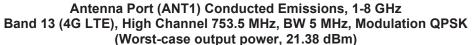
#### Antenna Port (ANT1) Conducted Emissions, 9 kHz-30 MHz Band 13 (4G LTE), High Channel 753.5 MHz, BW 5 MHz, Modulation QPSK (Worst-case output power, 21.38 dBm)

17	a)	Spectrum 6	1	Spactrum 5	X	Spectrum 4	dawn 3	-	Spectrum 2	-	Spectrum	tul UVimv
Count 100/10						weep	Mode Auto	BW 1 MHZ BW 3 MHZ	= R 1 ms = V	D dB SWT	vel -10.00 de 20	ALL DF
1Rm Avg						-	_			p	ency Sweep	Frequ
							1			3.000 d9m -		
-	-	-		-		_		_	-			20 dBm-
_	-									_		30 dBm-
					1.				1.11			
		1			1				1000			-
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- marine - marine	manna martine	manning	in and share a second	minitian	and manie	- and the second	the manufacture and	restantingers when	-	- mander and p		60 dBm-
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		-										100 dBm
30.0 MH	-		1Hz/	3.01	_		1000 pts				2. · · · ·	9.0 kHz
10.03.202	STREET, STREET	Measuring										

#### Antenna Port (ANT1) Conducted Emissions, 30 MHz-1 GHz Band 13 (4G LTE), High Channel 753.5 MHz, BW 5 MHz, Modulation QPSK (Worst-case output power, 21.38 dBm)

Intertek

MultiView	Spectrum		Spectrum 2	0	Sper	ctown 3	1	Spectrum 4	I	Spectrum 5	I	Spectrum 6		22	
Ref Level Att TDF	20.00 d8m 30 d8	SWT	10 ms	RBW VBW	1 MHZ 3 MHZ	Mode	Auto Sv	veep-							Count 100/10
	icy Sweep		_												1Rm Avg
					11							1	2		
10 dBm	-	_				_	-		-		_	-	1	-	-
0 dBm	_	_					-		-	-	_	_			
-10 dBm	11 13.00														
-20 dBm											_				
-30 dBm	-						-	_		_	_				
-40 dBm	-									-			L	www.urpinisheityite.com	and have proved and the standard
SO dBm	Contractor of Contractor of State	ani o in spinis		handunyilih				_						-	
-60 dam	_	_			-			_		_	_	_	_	-	-
-70 dBm					-		-	_	-		_	-			-
30.0 MHz					1	10000	pts	-	-	97,0	MHz/		_		1.0 GH
												Mea	suring	C. C. C. C. C. C.	10.03.202 19:31:0



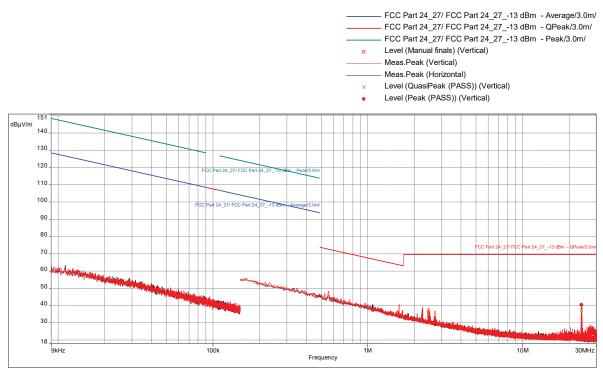
TDF	30 dB SWT	TO MS - VBVV	3 MHz Mode #	Auto Sweep					Count 100/100
I Frequency St	weep								IRm Avg
	41 -13,000 d9m							MILL	12,99 dBn 1,000000 GH
-20 dBm					-				
-30 dBm						-	-		
H40 dBm					and a subscription of the	12.00	- Service -	and the second designed which the second designed designe	New York Conception
-50 dBm	All the second		Manager and Street of Stre	New York Control of Co		and a second	Thermal Streen Andrew part of the second		
-60 dBm-							1		
-70 d8m		_				_	-	-	
80 dBm				_					
90 dam									
- 100 dBm									
1.0 GHz			10000 pl			0.0 MHz/			8.0 GH

### Radiated Emissions, 9 kHz-30 MHz Band 13 (4G LTE) With RP5200 Host, Low Channel 748.5 MHz, BW 5 MHz, Modulation 16QAM (Worst-case output power 21.75 dBm)

### Test Information:

Date and Time	3/12/2022 12:44:13 PM
Client and Project Number	CommScope
Engineer	Kouma Sinn
Temperature	22 C
Humidity	29 %
Atmospheric Pressure	988 mbar
Comments	Scan 5: Band 13 With RP5200, 5MHz BW, 16QAM Mod - Worst-case PWR (21.75
	dBm), Low Ch. 748.5 MHz, RE 9kHz-30MHz Loop antenna, Electric Field, 3M
	Location

#### Graph:



#### Results:

EIRP Peak (PASS) (1)

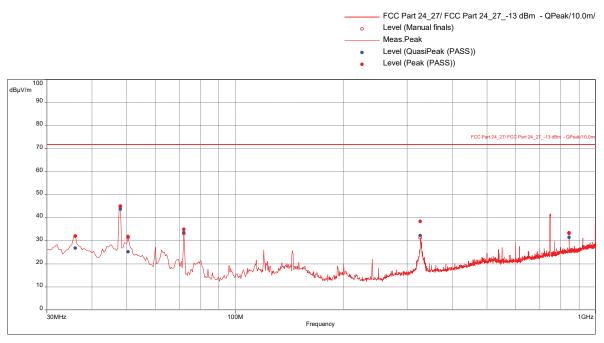
Frequency	Peak	EIRP	EIRP Limit	EIRP	Azimuth	Height	Pol.	RBW	Correction
(MHz)	Level	Level	(dBm)	Margin	(°)	(m)		(Hz)	(dB)
	(dBµV/m)	(dBm)	, ,	(dB)					. ,
24.02960526	40.46	-54.74	-13	-41.74	328.00	1.00	Vertical	9000.00	10.70

# Radiated Emissions, 30 MHz-1 GHz Band 13 (4G LTE) With RP5200 Host, Low Channel 748.5 MHz, BW 5 MHz, Modulation 16QAM (Worst-case output power 21.75 dBm)

#### Test Information:

Date and Time	3/12/2022 2:33:59 PM
Client and Project Number	CommScope
Engineer	Kouma Sinn
Temperature	22 C
Humidity	29 %
Atmospheric Pressure	988 mbar
Comments	Scan 6: Band 13 With RP5200, 5MHz BW, 16QAM Mod - Worst-case PWR (21.75
	dBm), Low Ch. 748.5 MHz, RE 30-1000MHz SA

#### Graph:



#### Results:

#### EIRP Peak (PASS) (6)

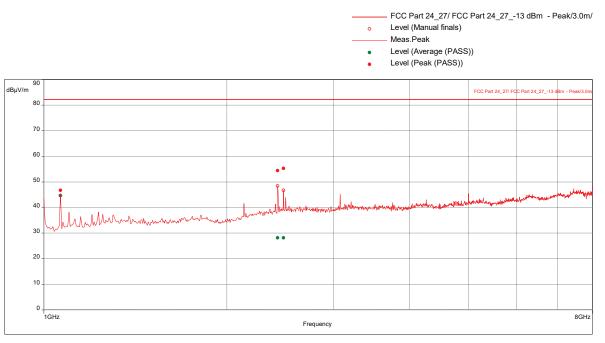
Frequency	Peak	EIRP	EIRP	EIRP	Azimuth	Height	Pol.	RBW (Hz)	Correction
(MHz)	Level	Level	Limit	Margin	(°)	(m)			(dB)
	(dBµV/m)	(dBm)	(dBm)	(dB)					
36	32.04	-52.76	-13	-39.76	343.00	3.96	Vertical	120000.00	-16.58
48	45.05	-39.75	-13	-26.75	242.00	1.00	Vertical	120000.00	-24.55
50.36842105	31.82	-52.98	-13	-39.98	61.00	2.49	Vertical	120000.00	-25.62
72	34.99	-49.81	-13	-36.81	46.00	1.40	Vertical	120000.00	-25.08
326.4315789	38.42	-46.38	-13	-33.38	82.00	3.30	Horizontal	120000.00	-17.51
844.8	33.51	-51.29	-13	-38.29	140.00	3.98	Horizontal	120000.00	-7.06

# Radiated Emissions, 1-8 GHz Band 13 (4G LTE) With RP5200 Host, Low Channel 748.5 MHz, BW 5 MHz, Modulation 16QAM (Worst-case output power 21.75 dBm)

#### Test Information:

Date and Time	3/13/2022 7:25:44 AM
Client and Project Number	CommScope
Engineer	Vathana Ven
Temperature	23 C
Humidity	20 %
Atmospheric Pressure	998 mbar
Comments	Scan 11: Band 13 With RP5200, 5MHz BW, 16QAM Mod - Worst-case PWR (21.75
	dBm), Low Ch. 748.5 MHz_RE 1 to 8 GHz

#### Graph:



#### Results:

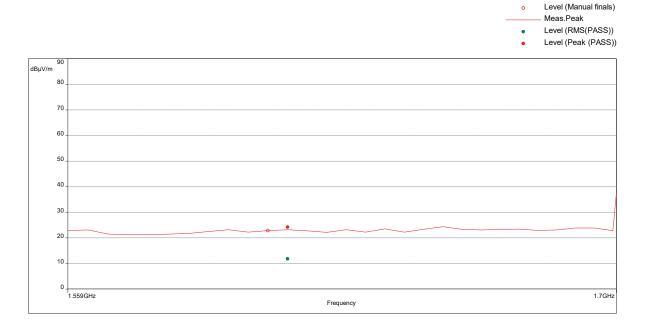
Peak (PASS) (3) Correction EIRP EIRP EIRP Azimuth Pol. (dB) RBW (dB) Frequency Height Peak (MHz) Level Level Limit Margin (°) (dB) (m) (dB) (dB) (dBm) (dBµV/m) (dBm) (dB) 1066.578947 46.73 -48.528 -35.53 148.00 1.65 Horizontal 100000.00 -9.66 -13 2426.052632 54.40 -40.858 -13 -27.86 46.00 2.10 Vertical 100000.00 -3.57 2479.736842 55.31 -39.948 -13 -26.95 168.00 2.70 Vertical 100000.00 -3.04

# Radiated Emissions, 1.559-1.610 GHz Band 13 (4G LTE) With RP5200 Host, Low Channel 748.5 MHz, BW 5 MHz, Modulation 16QAM (Worst-case output power 21.75 dBm)

#### Test Information:

Date and Time	3/19/2022 9:52:55 AM
Client and Project Number	CommScope
Engineer	Kouma Sinn
Temperature	24 C
Humidity	35 %
Atmospheric Pressure	1006 mbar
Comments	Scan 6: Band 13 With RP5200 With ant, 5MHz BW, 16QAM Mod - Worst-case PWR
	(21.75dBm), Low Ch. 748.5 MHz, RE 1559-1610MHz

#### Graph:



#### Results:

EIPR Peak (PASS) (1)

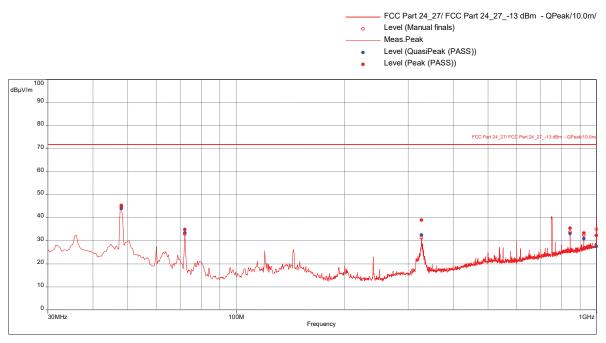
Frequency (MHz)	Peak Level (dBµV/m)	EIRP Level (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW (Hz)	Correction (dB)
1611.631579	24.18	-71.02	-40	-31.02	82.00	1.20	Horizontal	1000000.00	-20.02

# Radiated Emissions, 30 MHz-1 GHz Band 13 (4G LTE) With RP5200 Host, Mid Channel 751 MHz, BW 5 MHz, Modulation 256QAM (Worst-case output power 21.57 dBm)

#### Test Information:

Date and Time	3/12/2022 3:17:00 PM
Client and Project Number	CommScope
Engineer	Kouma Sinn
Temperature	22 C
Humidity	29 %
Atmospheric Pressure	988 mbar
Comments	Scan 7: Band 13 With RP5200, 5MHz BW, 256QAM Mod - Worst-case PWR (21.57
	dBm), Mid Ch. 751 MHz, RE 30-1000MHz SA

#### Graph:



#### Results:

#### EIRP Peak (PASS) (6)

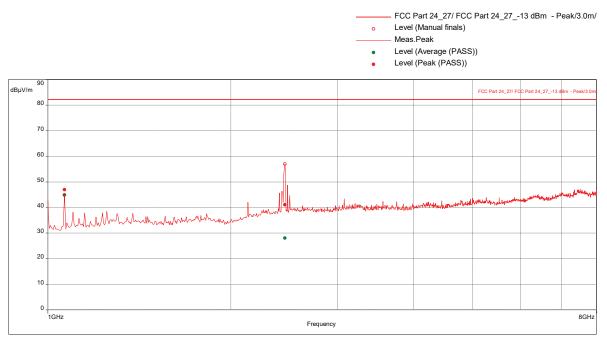
Frequency (MHz)	Peak Level (dBµV/m)	EIRP Level (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW (Hz)	Correction (dB)
48.03157895	45.31	-39.49	-13	-26.49	242.00	1.00	Vertical	120000.00	-24.56
72	34.90	-49.9	-13	-36.9	46.00	1.80	Vertical	120000.00	-25.08
326.8315789	38.99	-45.81	-13	-32.81	308.00	2.19	Horizontal	120000.00	-17.51
844.8	35.48	-49.32	-13	-36.32	142.00	1.35	Horizontal	120000.00	-7.06
921.6	33.41	-51.39	-13	-38.39	126.00	2.96	Horizontal	120000.00	-6.22
998.4	32.29	-52.51	-13	-39.51	169.00	3.56	Horizontal	120000.00	-5.04

# Radiated Emissions, 1-8 GHz Band 13 (4G LTE) With RP5200 Host, Mid Channel 751 MHz, BW 5 MHz, Modulation 256QAM (Worst-case output power 21.57 dBm)

#### Test Information:

Date and Time	3/13/2022 7:08:52 AM
Client and Project Number	CommScope
Engineer	Vathana Ven
Temperature	23 C
Humidity	20 %
Atmospheric Pressure	998 mbar
Comments	10: Band 13 With RP5200, 5MHz BW, 256QAM Mod - Worst-case PWR (21.57
	dBm), Mid Ch. 751 MHz_RE 1 to 8 GHz

#### Graph:



#### Results:

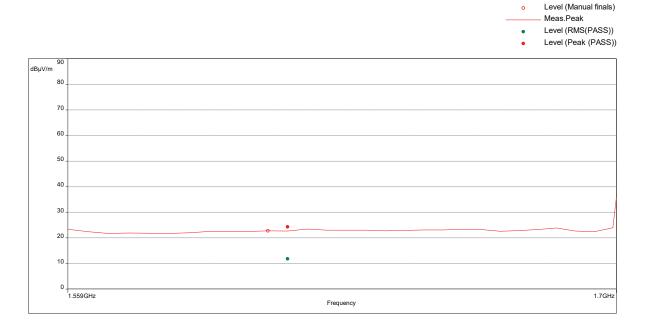
Peak (PASS) (2) EIRP EIRP EIRP Azimuth Height Pol. (dB) RBW (dB) Correction Frequency Peak (MHz) Level Level Limit Margin (°) (dB) (m) (dB) (dB) (dBµV/m) (dBm) (dBm) (dB) 1066.578947 47.00 -48.258 -13 -35.26 146.00 1.60 Horizontal 100000.00 -9.66 2453.684211 41.09 -13 -41.17 204.00 1.15 Vertical 1000000.00 -54.168 -3.38

# Radiated Emissions, 1.559-1.610 GHz Band 13 (4G LTE) With RP5200 Host, Mid Channel 751 MHz, BW 5 MHz, Modulation 256QAM (Worst-case output power 21.57 dBm)

#### Test Information:

Date and Time	3/19/2022 10:01:09 AM
Client and Project Number	CommScope
Engineer	Kouma Sinn
Temperature	24 C
Humidity	35 %
Atmospheric Pressure	1006 mbar
Comments	Scan 7: Band 13 With RP5200 With ant, 5MHz BW, 256QAM Mod - Worst-case
	PWR (21.57dBm), Mid Ch. 751 MHz, RE 1559-1610MHz

#### Graph:



#### Results:

EIPR Peak (PASS) (1)

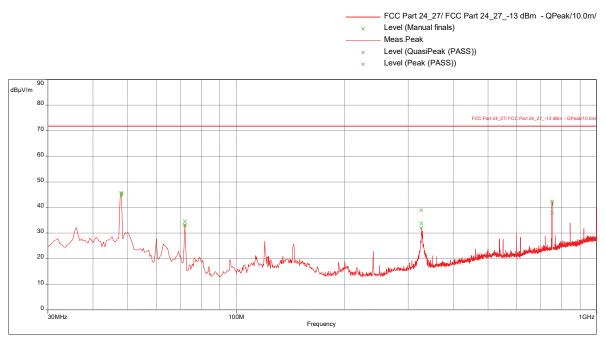
Frequency (MHz)	Peak Level (dBuV/m)	EIRP Level (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW (Hz)	Correction (dB)
1612.157895	24.32	-70.88	-40	-30.88	59.00	3.54	Horizontal	1000000.00	-20.01

# Radiated Emissions, 30 MHz-1 GHz Band 13 (4G LTE) With RP5200 Host, High Channel 753.5 MHz, BW 5 MHz, Modulation QPSK (Worst-case output power 21.38 dBm)

#### Test Information:

Date and Time	3/13/2022 6:07:53 AM
Client and Project Number	CommScope
Engineer	Vathana Ven
Temperature	23 C
Humidity	20 %
Atmospheric Pressure	998 mbar
Comments	Scan 8: Band 13 With RP5200, 5MHz BW, QPSK Mod - Worst-case PWR (21.38
	dBm), High Ch. 753.5 MHz, RE 30-1000MHz

#### Graph:



#### Results:

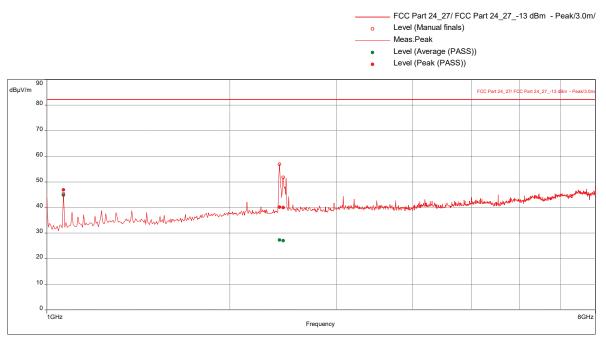
Peak (PASS) (4)									
Frequency	Peak	EIRP	EIRP	EIRP	Azimuth	Height	Pol.	RBW (Hz)	Correction
(MHz)	Level	Level	Limit	Margin	(°)	(m)			(dB)
	(dBµV/m)	(dBm)	(dBm)	(dB)					
48	45.72	-39.08	-13	-26.08	252.00	1.00	Vertical	120000.00	-24.55
72	34.61	-50.19	-13	-37.19	4.00	1.64	Vertical	120000.00	-25.08
326.4	38.93	-45.87	-13	-32.87	307.00	3.98	Horizontal	120000.00	-17.51
753.1368421	42.31	-42.31	-13	-29.49	349.00	1.00	Horizontal	120000.00	-8.73

### Radiated Emissions, 1-8 GHz Band 13 (4G LTE) With RP5200 Host, High Channel 753.5 MHz, BW 5 MHz, Modulation QPSK (Worst-case output power 21.38 dBm)

#### Test Information:

Date and Time	3/13/2022 6:48:52 AM
Client and Project Number	CommScope
Engineer	Vathana Ven
Temperature	23 C
Humidity	20 %
Atmospheric Pressure	998 mbar
Comments	Scan 9: Band 13 With RP5200, 5MHz BW, QPSK Mod - Worst-case PWR (21.38
	dBm), High Ch. 753.5 MHz_RE 1 to 8 GHz

#### Graph:



#### Results:

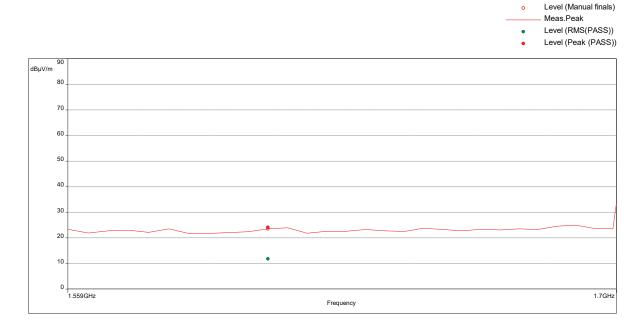
Peak (PASS) (3) EIRP EIRP Pol. EIRP Azimuth Height RBW (Hz) Correction Frequency Peak (MHz) Level Level Limit Margin (m) (dB) (°) (dBm) (dBµV/m) (dBm) (dB) 1066.578947 46.86 -48.398 -13 -35.40 146.00 1.60 Horizontal 100000.00 -9.66 2413.684211 40.13 -55.128 -13 -42.13 24.00 2.70 Vertical 100000.00 -3.67 2448.157895 39.98 -13 -42.28 9.00 2.25 Vertical 1000000.00 -55.278 -3.43

# Radiated Emissions, 1.559-1.610 GHz Band 13 (4G LTE) With RP5200 Host, High Channel 753.5 MHz, BW 5 MHz, Modulation QPSK (Worst-case output power 21.38 dBm)

#### Test Information:

Date and Time	3/19/2022 10:08:36 AM
Client and Project Number	CommScope
Engineer	Kouma Sinn
Temperature	24 C
Humidity	35 %
Atmospheric Pressure	1006 mbar
Comments	Scan 8: Band 13 With RP5200 With ant, 5MHz BW, QPSK Mod - Worst-case PWR
	(21.38 dBm), High Ch. 753.5 MHz, RE 1559-1610MHz

#### Graph:



#### Results:

EIPR Peak (PASS) (1)

Frequency (MHz)	Peak Level (dBµV/m)	EIRP Level (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW (Hz)	Correction (dB)
1611.105263	24.17	-71.03	-40	-31.03	116.00	3.98	Horizontal	1000000.00	-20.03

		Intertek	
Report Number: 104	4989879BOX-001a		Issued: 03/24/2022
Test Personnel:	Kouma Sinn 443 Vathana F. Ven V5V	Test Date:	03/11/2022, 03/12/2022, 03/19/2022
Supervising/Reviewing Engineer: (Where Applicable)			03/13/2022
Product Standard: Input Voltage:	FCC Part 27 48 VDC (POE)	Limit Applied:	See report section 10.3
Pretest Verification w/ Ambient Signals or		Ambient Temperature:	23, 22, 23, 24 °C
BB Source:	N/A	Relative Humidity:	10, 29, 20, 35 %
		Atmospheric Pressure:	1010, 988, 998, 1006 mbars

Deviations, Additions, or Exclusions: None

# 11 Revision History

Revision Level	Date	Report Number	Prepared By	Reviewed By	Notes
0	03/24/2022	104989879BOX-001a	KPS 45	VEV	Original Issue