

**Application for Certification
For a LMS Transmitter.**

TRANSCORE
Amtech Technology Center
8600 Jefferson Street, NE
Albuquerque, NM 87113

Multiprotocol Reader Extreme
LMS Location and Monitoring Service

M/N: MPRXV1

FCC ID: FIHMPRXV1
IC: 1584A-MPRXV1

REPORT # UT76136A-002

This report was prepared in accordance with the requirements of the FCC Rules and Regulations Part 2, Subpart J, 2.1033, Part 90, and other applicable sections of the rules as indicated herein.

Prepared By:



DNB Engineering, Inc.
1100 E Chalk Creek Road
Coalville, UT 84017

1 Nov 2017
(Revised 17 Mar 2018)

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Paragraph numbers in this report follow the application section numbers found in the FEDERAL COMMUNICATIONS COMMISSION Rules and Regulations, Part 2, Subpart J for Certification of electronic equipment.

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1.0 ADMINISTRATIVE DATA

1.1 Certifications and Qualifications

I certify that DNB Engineering, Inc conducted the tests performed in order to obtain the technical data presented in this application. Also, based on the results of the enclosed data, I have concluded that the equipment tested meets or exceeds the requirements of the Rules and Regulations governing this application.

1.2 Measurement Repeatability Information

The test data presented in this report has been acquired using the guidelines set forth in FCC Part 2.1031 through 2.1057, Part 90 and RSS-137. The test results presented in this document are valid only for the equipment identified herein under the test conditions described. Repeatability of these test results will only be achieved with identical measurement conditions. These conditions include: The same test distance, EUT Height, Measurement Site Characteristics, and the same EUT System Components. The system must have the same Interconnecting Cables arranged in identical placement to that in the test set-up, with the system and/or EUT functioning in the identical mode of operation (i.e. software and so on) as on the date of the test. Any deviation from the test conditions and the environment on the date of the test may result in measurement repeatability difficulties.

1.3 Test Procedure

The basic test procedure for evaluating this device was TIA-603-D (June 2010).

All changes made to the EUT during the course of testing as identified in this test report must be incorporated into the EUT or identical models to ensure compliance with the FCC regulations.



C. L. Payne III (Para. 1.1)
Facility Manager
Coalville Facility.
DNB Engineering, Inc.
Tel. (435) 336-4433
FAX (435) 336-4436

1.4 Test Equipment List

TEST EQUIPMENT LIST					
Description	Manufacturer	Model No.	Asset #	Serial #	Cal Due
Amplifier	HP	8447D	U-065	2727A06180	18 May 2018
Amplifier	HP	8447D	U-066	2727A06181	16 Jan 2018
Amplifier	HP	8447D	U-068	2727A06184	22 Apr 2018
Bicon Antenna	Schwarzbeck	BBA9106	U-186	7	9 May 2018
Log P Antenna	Schwarzbeck	UHAL09107	U-010	10	21 Dec 2017
Log P Antenna	Schwarzbeck	UHAL09107	U-011	L11	3 Mar 2018
DRG Horn Antenna	AH Systems	SAS-200/571	U-071	417	11 Jul 2019
HF Cable	W.L.Grove	N/A	U-075	P44597	16 Jan 2018
Spectrum Analyzer	Agilent	E7401A	U-257	MY42000103	29 Dec 2018
Spectrum Analyzer	R&S	FSV30	U-248	101367	13 Jul 2018
TILE Software	ETS- Lindgern	3.4.11.13	U-317	8112006	13 Jan 2018
Attenuator (40dB)	Inmet	18N50W-40dB	U-077B	64621	2 Jan 2019

1.5 Measurement Uncertainty

Measurement Type	Uncertainty
AC Conducted Emissions	± 3.41 dB
OATS - Radiated Emissions - Vertical Biconical (30-300MHz)	± 4.15 dB
OATS - Radiated Emissions - Horizontal Biconical (30-300MHz)	± 4.17 dB
OATS - Radiated Emissions - Vertical Log Periodic (300-100MHz)	± 4.92 dB
OATS - Radiated Emissions - Horizontal Log Periodic (300-1000MHz)	± 4.79 dB
OATS - Radiated Emissions - (1 to 6 GHz)	± 5.74 dB
OATS - Radiated Emissions - (> 6 Ghz)	± 5.80 dB
Antenna Conducted Measurements	± 1.96 dB

2.1033 (b) (1) Application for Certification

Name of Applicant: Transcore
 8600 Jefferson Street, NE
 Albuquerque, NM 87113

FRN Number: 0006083745

Applicant is: X Transcore
 Vendor
 Licensee
 Prospective Licensee
 Other

Name of Manufacturer : Transcore
 8600 Jefferson Street, NE
 Albuquerque, NM 87113

Description: LMS Transmitter

Part Number: MPRXV1

Anticipated Production Quantity: Multiple Units

Authorized Frequency Band: 902 - 904 and 909.750 - 921.750 MHz

Rated Power: 1.75 W

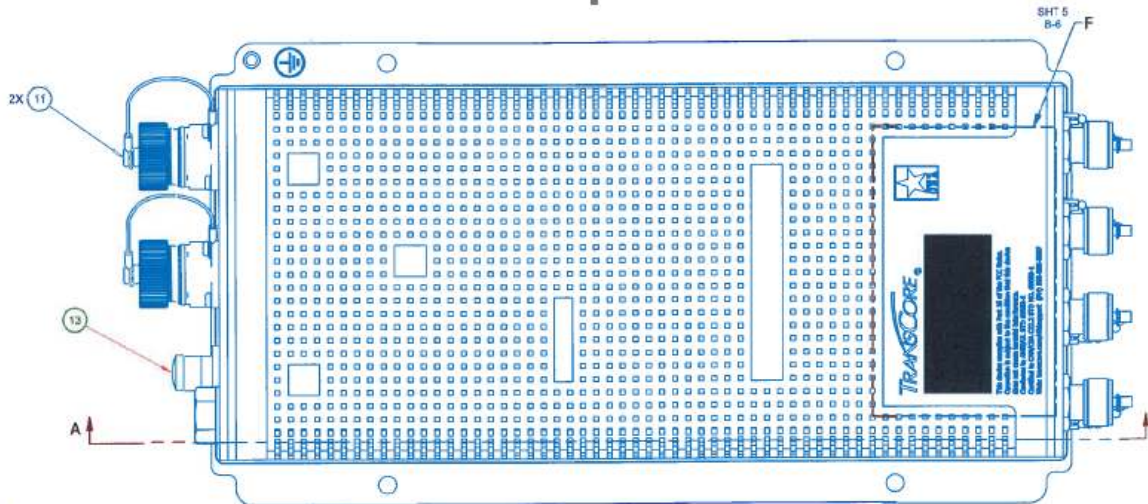
Antenna (Maximum Gain): 14.00dBi 11.85dBd

Emission Modulation and Designators		
Freq in MHz	Modulation	Designator
902.250 to 903.750	ATA (CW)	NON
910.000 to 921.500	ATA (CW)	NON
911.750 to 919.750	eGo	405K7L1D
911.750 to 919.750	SeGo	523K2L1D
911.750 to 919.750	IAG	440K9L1D
911.750 to 919.750	EPC	476K4L1D

2.1033 (b) (2) FCC Identifier

FCC ID: FIHMPRXV1
IC: 1584A-MPRXV1

Figure 1 - Label and location



2.1033 (b) (3) Installation and Operating Instructions

Supplied separately.

2.1033 (b) (4) Brief Description of Circuit Function

The EUT operates as an location and monitoring multiprotocol reader for the RFID industry rated for dust and water ingress protection in harsh outdoor environments. The design incorporates four input output radio frequency ports (antenna ports) for external antenna connection. The design utilizes a single port at anytime and may automatically switch between ports. Operation of design utilizes industry standardized modulation schemes offering ability to read RFID tags from multiple sources.

2.1033 (b) (5) Block Diagram

Supplied separately for confidentiality.

2.1033 (b) (7) Equipment Photographs

Supplied separately for confidentiality.

2.1033 (b) (6) Report of Measurements

Measurements shall be made to establish the radio frequency power delivered by the transmitter into the standard output termination. The power output shall be monitored and recorded and no adjustment shall be made to the transmitter after the test has begun, except as noted below: If the power output is adjustable, measurements shall be made for the highest and lowest power levels.

The radio frequency power output was measured at the antenna terminal by replacing the antenna with cabling, spectrum analyzer and appropriate attenuation. The spectrum analyzer offered impedance of 50 Ω to match the impedance of the standard antenna. A Spectrum Analyzer was used to measure the radio frequency power at the antenna port. The data was taken in dBm and converted to watts as shown in the following Table. Plots have been provided displaying the output power of the transmitter. Data was taken per Paragraph 2.1046(a) and applicable paragraphs of Part 90.205(l) and RSS-137 paragraph 6.4.

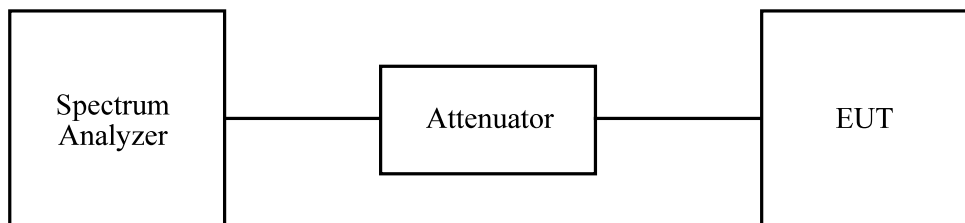
P_{dBm} = power in dB above 1 milliwatt.


$$\begin{aligned} \text{Milliwatts} &= 10^{(P_{dBm}/10)} \\ \text{Watts} &= (\text{Milliwatts})(0.001)(\text{W/mW}) \\ \text{Milliwatts} &= 10^{(32.40/10)} \\ &= 1,737.801 \text{ mW} \\ &= 1.740 \text{ Watts (round up to the second digit)} \end{aligned}$$

EUT operating conditions:

The software provided by the client to enable the EUT to transmit continuously at the each channel respectively.

Test Set Up:



		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		RF Power Output									
DNB Job Number:		76136		Date:		17 Mar 2018		Conformance Standard FCC Part 90 RSS-137					
Customer:		Transcore											
Model Number:		MPRXV1											
Description:		Multiprotocol Reader Extreme		Clause 90.205(1) RSS-137 cl 6.4									
		Normal Configuration - Low Gain Antenna with Low Loss Cable											
Environmental Conditions													
Ambient Temperature				Relative Humidity				Barometric Pressure					
21 °C				25 %				101.2 kPa					
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>													
Band	Chl	Port	Freq in MHz	Mode	P _{dBm}	Ant Gain dBd	Cable Loss	ERP P _{dBm}	ERP P _{mw}	ERP P _w	Limit	Delta	Result
Low	Low	0	902.249750	ATA	32.08	8.35	1.10	39.33	8570.378	8.57	30.00	-21.43	PASS
Low	Middle	0	902.999630	ATA	32.37	8.35	1.10	39.62	9162.205	9.16	30.00	-20.84	PASS
Low	High	0	903.749000	ATA	32.08	8.35	1.10	39.33	8570.378	8.57	30.00	-21.43	PASS
High	Low	0	909.999880	ATA	32.18	8.35	1.10	39.43	8770.008	8.77	30.00	-21.23	PASS
High	Middle	0	915.749500	ATA	32.05	8.35	1.10	39.30	8511.380	8.51	30.00	-21.49	PASS
High	High	0	921.499380	ATA	32.19	8.35	1.10	39.44	8790.225	8.79	30.00	-21.21	PASS
High	Low	0	911.750000	eGo	31.83	8.35	1.10	39.08	8090.959	8.09	30.00	-21.91	PASS
High	Middle	0	915.750620	eGo	31.81	8.35	1.10	39.06	8053.784	8.05	30.00	-21.95	PASS
High	High	0	919.750000	eGo	31.70	8.35	1.10	38.95	7852.356	7.85	30.00	-22.15	PASS
High	Low	0	911.750000	EPC	31.92	8.35	1.10	39.17	8260.379	8.26	30.00	-21.74	PASS
High	Middle	0	915.750000	EPC	31.82	8.35	1.10	39.07	8072.350	8.07	30.00	-21.93	PASS
High	High	0	919.749380	EPC	31.78	8.35	1.10	39.03	7998.343	8.00	30.00	-22.00	PASS
High	Low	0	911.750000	SeGo	31.89	8.35	1.10	39.14	8203.515	8.20	30.00	-21.80	PASS
High	Middle	0	915.750620	SeGo	31.77	8.35	1.10	39.02	7979.947	7.98	30.00	-22.02	PASS
High	High	0	919.750620	SeGo	31.73	8.35	1.10	38.98	7906.786	7.91	30.00	-22.09	PASS
High	Low	0	911.747500	IAG	32.06	8.35	1.10	39.31	8531.001	8.53	30.00	-21.47	PASS
High	Middle	0	915.749380	IAG	31.67	8.35	1.10	38.92	7798.301	7.80	30.00	-22.20	PASS
High	High	0	919.749380	IAG	31.63	8.35	1.10	38.88	7726.806	7.73	30.00	-22.27	PASS

Note: EUT has one transmitter circuit which is multiplexed through four ports (0 - 3). Transmitter Output Power was measured on each port to verify consistency between ports. Only one port can be active at any time.



1100 E Chalk Creek Road
 Coalville, UT 84017
 (435) 336-4433
 FAX (435) 336-4436

RF Power Output

DNB Job Number:	76136	Date:	17 Mar 2018	Conformance Standard FCC Part 90 RSS-137
Customer:	Transcore			
Model Number:	MPRXV1			
Description:	Multiprotocol Reader Extreme			Clause 90.205(1) RSS-137 cl 6.4
	Normal Configuration - Low Gain Antenna with Low Loss Cable			


Environmental Conditions

Ambient Temperature	Relative Humidity	Barometric Pressure
21 °C	25 %	101.2 kPa


EUT performed within the requirements of the applicable standard Yes No *Les Payne*

Band	Chl	Port	Freq in MHz	Mode	P _{dBm}	Ant Gain dBd	Cable Loss	ERP P _{dBm}	ERP P _{mw}	ERP P _w	Limit	Delta	Result
Low	Low	1	902.250370	ATA	32.40	8.35	1.10	39.65	9225.714	9.23	30.00	-20.77	PASS
Low	Middle	1	902.999500	ATA	32.08	8.35	1.10	39.33	8570.378	8.57	30.00	-21.43	PASS
Low	High	1	903.749750	ATA	32.27	8.35	1.10	39.52	8953.648	8.95	30.00	-21.05	PASS
High	Low	1	910.000250	ATA	32.16	8.35	1.10	39.41	8729.714	8.73	30.00	-21.27	PASS
High	Middle	1	915.748750	ATA	31.99	8.35	1.10	39.24	8394.600	8.39	30.00	-21.61	PASS
High	High	1	921.499500	ATA	32.03	8.35	1.10	39.28	8472.274	8.47	30.00	-21.53	PASS
High	Low	1	911.750620	eGo	32.04	8.35	1.10	39.29	8491.805	8.49	30.00	-21.51	PASS
High	Middle	1	915.750000	eGo	31.75	8.35	1.10	39.00	7943.282	7.94	30.00	-22.06	PASS
High	High	1	919.750620	eGo	31.88	8.35	1.10	39.13	8184.648	8.18	30.00	-21.82	PASS
High	Low	1	911.750620	EPC	31.94	8.35	1.10	39.19	8298.508	8.30	30.00	-21.70	PASS
High	Middle	1	915.749380	EPC	31.89	8.35	1.10	39.14	8203.515	8.20	30.00	-21.80	PASS
High	High	1	919.750620	EPC	31.82	8.35	1.10	39.07	8072.350	8.07	30.00	-21.93	PASS
High	Low	1	911.750000	SeGo	32.08	8.35	1.10	39.33	8570.378	8.57	30.00	-21.43	PASS
High	Middle	1	915.750620	SeGo	31.82	8.35	1.10	39.07	8072.350	8.07	30.00	-21.93	PASS
High	High	1	919.750620	SeGo	31.75	8.35	1.10	39.00	7943.282	7.94	30.00	-22.06	PASS
High	Low	1	911.746880	IAG	31.79	8.35	1.10	39.04	8016.781	8.02	30.00	-21.98	PASS
High	Middle	1	915.750000	IAG	31.73	8.35	1.10	38.98	7906.786	7.91	30.00	-22.09	PASS
High	High	1	919.748130	IAG	31.68	8.35	1.10	38.93	7816.278	7.82	30.00	-22.18	PASS


Note: EUT has one transmitter circuit which is multiplexed through four ports (0 - 3). Transmitter Output Power was measured on each port to verify consistency between ports. Only one port can be active at any time.

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		RF Power Output									
DNB Job Number:		76136		Date:		17 Mar 2018		Conformance Standard FCC Part 90 RSS-137					
Customer:		Transcore		Model Number:		MPRXV1							
Description:		Multiprotocol Reader Extreme		Normal Configuration - Low Gain Antenna with Low Loss Cable		Clause 90.205(1) RSS-137 cl 6.4							
Environmental Conditions													
Ambient Temperature				Relative Humidity				Barometric Pressure					
21 °C				25 %				101.2 kPa					
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>													
Band	Chl	Port	Freq in MHz	Mode	P _{dBm}	Ant Gain dbd	Cable Loss	ERP P _{dBm}	ERP P _{mw}	ERP P _w	Limit	Delta	Result
Low	Low	2	902.250500	ATA	32.08	8.35	1.10	39.33	8570.378	8.57	30.00	-21.43	PASS
Low	Middle	2	902.999250	ATA	32.06	8.35	1.10	39.31	8531.001	8.53	30.00	-21.47	PASS
Low	High	2	903.750870	ATA	32.11	8.35	1.10	39.36	8629.785	8.63	30.00	-21.37	PASS
High	Low	2	910.000370	ATA	32.04	8.35	1.10	39.29	8491.805	8.49	30.00	-21.51	PASS
High	Middle	2	915.751000	ATA	31.94	8.35	1.10	39.19	8298.508	8.30	30.00	-21.70	PASS
High	High	2	921.500370	ATA	32.02	8.35	1.10	39.27	8452.788	8.45	30.00	-21.55	PASS
High	Low	2	911.750000	eGo	31.99	8.35	1.10	39.24	8394.600	8.39	30.00	-21.61	PASS
High	Middle	2	915.751250	eGo	31.74	8.35	1.10	38.99	7925.013	7.93	30.00	-22.07	PASS
High	High	2	919.750000	eGo	31.83	8.35	1.10	39.08	8090.959	8.09	30.00	-21.91	PASS
High	Low	2	911.750000	EPC	31.94	8.35	1.10	39.19	8298.508	8.30	30.00	-21.70	PASS
High	Middle	2	915.750000	EPC	31.88	8.35	1.10	39.13	8184.648	8.18	30.00	-21.82	PASS
High	High	2	919.750000	EPC	31.81	8.35	1.10	39.06	8053.784	8.05	30.00	-21.95	PASS
High	Low	2	911.750000	SeGo	32.04	8.35	1.10	39.29	8491.805	8.49	30.00	-21.51	PASS
High	Middle	2	915.749380	SeGo	31.77	8.35	1.10	39.02	7979.947	7.98	30.00	-22.02	PASS
High	High	2	919.750620	SeGo	31.92	8.35	1.10	39.17	8260.379	8.26	30.00	-21.74	PASS
High	Low	2	911.747500	IAG	31.96	8.35	1.10	39.21	8336.812	8.34	30.00	-21.66	PASS
High	Middle	2	915.748750	IAG	31.88	8.35	1.10	39.13	8184.648	8.18	30.00	-21.82	PASS
High	High	2	919.748750	IAG	31.59	8.35	1.10	38.84	7655.966	7.66	30.00	-22.34	PASS


Note: EUT has one transmitter circuit which is multiplexed through four ports (0 - 3). Transmitter Output Power was measured on each port to verify consistency between ports. Only one port can be active at any time.

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436			RF Power Output								
DNB Job Number:		76136			Date:		17 Mar 2018		Conformance Standard FCC Part 90 RSS-137 Clause 90.205(I) RSS-137 cl 6.4				
Customer:		Transcore											
Model Number:		MPRXV1											
Description:		Multiprotocol Reader Extreme			Normal Configuration - Low Gain Antenna with Low Loss Cable								
Environmental Conditions													
Ambient Temperature				Relative Humidity				Barometric Pressure					
21 °C				25 %				101.2 kPa					
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>													
Band	Chl	Port	Freq in MHz	Mode	P _{dBm}	Ant Gain dBd	Cable Loss	ERP P _{dBm}	ERP P _{mw}	ERP P _w	Limit	Delta	Result
Low	Low	3	902.251250	ATA	32.11	8.35	1.10	39.36	8629.785	8.63	30.00	-21.37	PASS
Low	Middle	3	902.999630	ATA	32.05	8.35	1.10	39.30	8511.380	8.51	30.00	-21.49	PASS
Low	High	3	903.750870	ATA	32.05	8.35	1.10	39.30	8511.380	8.51	30.00	-21.49	PASS
High	Low	3	910.000000	ATA	32.06	8.35	1.10	39.31	8531.001	8.53	30.00	-21.47	PASS
High	Middle	3	915.748880	ATA	32.00	8.35	1.10	39.25	8413.951	8.41	30.00	-21.59	PASS
High	High	3	921.499880	ATA	32.08	8.35	1.10	39.33	8570.378	8.57	30.00	-21.43	PASS
High	Low	3	911.750620	eGo	31.89	8.35	1.10	39.14	8203.515	8.20	30.00	-21.80	PASS
High	Middle	3	915.750000	eGo	31.83	8.35	1.10	39.08	8090.959	8.09	30.00	-21.91	PASS
High	High	3	919.750620	eGo	31.74	8.35	1.10	38.99	7925.013	7.93	30.00	-22.07	PASS
High	Low	3	911.750000	EPC	31.95	8.35	1.10	39.20	8317.638	8.32	30.00	-21.68	PASS
High	Middle	3	915.750620	EPC	31.90	8.35	1.10	39.15	8222.426	8.22	30.00	-21.78	PASS
High	High	3	919.750620	EPC	31.83	8.35	1.10	39.08	8090.959	8.09	30.00	-21.91	PASS
High	Low	3	911.750620	SeGo	32.06	8.35	1.10	39.31	8531.001	8.53	30.00	-21.47	PASS
High	Middle	3	915.750620	SeGo	31.78	8.35	1.10	39.03	7998.343	8.00	30.00	-22.00	PASS
High	High	3	919.750620	SeGo	31.90	8.35	1.10	39.15	8222.426	8.22	30.00	-21.78	PASS
High	Low	3	911.748750	IAG	31.76	8.35	1.10	39.01	7961.594	7.96	30.00	-22.04	PASS
High	Middle	3	915.745630	IAG	31.65	8.35	1.10	38.90	7762.471	7.76	30.00	-22.24	PASS
High	High	3	919.748750	IAG	31.80	8.35	1.10	39.05	8035.261	8.04	30.00	-21.96	PASS


Note: EUT has one transmitter circuit which is multiplexed through four ports (0 - 3). Transmitter Output Power was measured on each port to verify consistency between ports. Only one port can be active at any time.

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		RF Power Output									
DNB Job Number:		76136		Date:		17 Mar 2018		Conformance Standard FCC Part 90 RSS-137					
Customer:		Transcore											
Model Number:		MPRXV1											
Description:		Multiprotocol Reader Extreme		Clause 90.205(1) RSS-137 cl 6.4									
		Worst Case Configuration - High Gain Antenna with Low Loss Cable											
Environmental Conditions													
Ambient Temperature				Relative Humidity				Barometric Pressure					
21 °C				25 %				101.2 kPa					
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>													
Band	Chl	Port	Freq in MHz	Mode	P _{dBm}	Ant Gain dBd	Cable Loss	ERP P _{dBm}	ERP P _{mw}	ERP P _w	Limit	Delta	Result
Low	Low	0	902.249750	ATA	32.08	11.85	1.10	42.83	19186.687	19.19	30.00	-10.81	PASS
Low	Middle	0	902.999630	ATA	32.37	11.85	1.10	43.12	20511.622	20.51	30.00	-9.49	PASS
Low	High	0	903.749000	ATA	32.08	11.85	1.10	42.83	19186.687	19.19	30.00	-10.81	PASS
High	Low	0	909.999880	ATA	32.18	11.85	1.10	42.93	19633.603	19.63	30.00	-10.37	PASS
High	Middle	0	915.749500	ATA	32.05	11.85	1.10	42.80	19054.607	19.05	30.00	-10.95	PASS
High	High	0	921.499380	ATA	32.19	11.85	1.10	42.94	19678.863	19.68	30.00	-10.32	PASS
High	Low	0	911.750000	eGo	31.83	11.85	1.10	42.58	18113.401	18.11	30.00	-11.89	PASS
High	Middle	0	915.750620	eGo	31.81	11.85	1.10	42.56	18030.177	18.03	30.00	-11.97	PASS
High	High	0	919.750000	eGo	31.70	11.85	1.10	42.45	17579.236	17.58	30.00	-12.42	PASS
High	Low	0	911.750000	EPC	31.92	11.85	1.10	42.67	18492.686	18.49	30.00	-11.51	PASS
High	Middle	0	915.750000	EPC	31.82	11.85	1.10	42.57	18071.741	18.07	30.00	-11.93	PASS
High	High	0	919.749380	EPC	31.78	11.85	1.10	42.53	17906.059	17.91	30.00	-12.09	PASS
High	Low	0	911.750000	SeGo	31.89	11.85	1.10	42.64	18365.383	18.37	30.00	-11.63	PASS
High	Middle	0	915.750620	SeGo	31.77	11.85	1.10	42.52	17864.876	17.86	30.00	-12.14	PASS
High	High	0	919.750620	SeGo	31.73	11.85	1.10	42.48	17701.090	17.70	30.00	-12.30	PASS
High	Low	0	911.747500	IAG	32.06	11.85	1.10	42.81	19098.533	19.10	30.00	-10.90	PASS
High	Middle	0	915.749380	IAG	31.67	11.85	1.10	42.42	17458.222	17.46	30.00	-12.54	PASS
High	High	0	919.749380	IAG	31.63	11.85	1.10	42.38	17298.164	17.30	30.00	-12.70	PASS


Note: EUT has one transmitter circuit which is multiplexed through four ports (0 - 3). Transmitter Output Power was measured on each port to verify consistency between ports. Only one port can be active at any time.

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		RF Power Output									
DNB Job Number:		76136		Date:		17 Mar 2018		Conformance Standard FCC Part 90 RSS-137					
Customer:		Transcore		Model Number:		MPRXV1							
Description:		Multiprotocol Reader Extreme		Worst Case Configuration - High Gain Antenna with Low Loss Cable		Clause 90.205(l) RSS-137 cl 6.4							
Environmental Conditions													
Ambient Temperature				Relative Humidity				Barometric Pressure					
21 °C				25 %				101.2 kPa					
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>													
Band	Chl	Port	Freq in MHz	Mode	P _{dBm}	Ant Gain dBd	Cable Loss	ERP P _{dBm}	ERP P _{mw}	ERP P _w	Limit	Delta	Result
Low	Low	1	902.250370	ATA	32.40	11.85	1.10	43.15	20653.802	20.65	30.00	-9.35	PASS
Low	Middle	1	902.999500	ATA	32.08	11.85	1.10	42.83	19186.687	19.19	30.00	-10.81	PASS
Low	High	1	903.749750	ATA	32.27	11.85	1.10	43.02	20044.720	20.04	30.00	-9.96	PASS
High	Low	1	910.000250	ATA	32.16	11.85	1.10	42.91	19543.395	19.54	30.00	-10.46	PASS
High	Middle	1	915.748750	ATA	31.99	11.85	1.10	42.74	18793.168	18.79	30.00	-11.21	PASS
High	High	1	921.499500	ATA	32.03	11.85	1.10	42.78	18967.059	18.97	30.00	-11.03	PASS
High	Low	1	911.750620	eGo	32.04	11.85	1.10	42.79	19010.783	19.01	30.00	-10.99	PASS
High	Middle	1	915.750000	eGo	31.75	11.85	1.10	42.50	17782.794	17.78	30.00	-12.22	PASS
High	High	1	919.750620	eGo	31.88	11.85	1.10	42.63	18323.144	18.32	30.00	-11.68	PASS
High	Low	1	911.750620	EPC	31.94	11.85	1.10	42.69	18578.045	18.58	30.00	-11.42	PASS
High	Middle	1	915.749380	EPC	31.89	11.85	1.10	42.64	18365.383	18.37	30.00	-11.63	PASS
High	High	1	919.750620	EPC	31.82	11.85	1.10	42.57	18071.741	18.07	30.00	-11.93	PASS
High	Low	1	911.750000	SeGo	32.08	11.85	1.10	42.83	19186.687	19.19	30.00	-10.81	PASS
High	Middle	1	915.750620	SeGo	31.82	11.85	1.10	42.57	18071.741	18.07	30.00	-11.93	PASS
High	High	1	919.750620	SeGo	31.75	11.85	1.10	42.50	17782.794	17.78	30.00	-12.22	PASS
High	Low	1	911.746880	IAG	31.79	11.85	1.10	42.54	17947.336	17.95	30.00	-12.05	PASS
High	Middle	1	915.750000	IAG	31.73	11.85	1.10	42.48	17701.090	17.70	30.00	-12.30	PASS
High	High	1	919.748130	IAG	31.68	11.85	1.10	42.43	17498.467	17.50	30.00	-12.50	PASS

Note: EUT has one transmitter circuit which is multiplexed through four ports (0 - 3). Transmitter Output Power was measured on each port to verify consistency between ports. Only one port can be active at any time.

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		RF Power Output									
DNB Job Number:		76136		Date:		17 Mar 2018		Conformance Standard FCC Part 90 RSS-137					
Customer:		Transcore											
Model Number:		MPRXV1											
Description:		Multiprotocol Reader Extreme		Clause 90.205(1) RSS-137 cl 6.4									
		Worst Case Configuration - High Gain Antenna with Low Loss Cable											
Environmental Conditions													
Ambient Temperature				Relative Humidity				Barometric Pressure					
21 °C				25 %				101.2 kPa					
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>													
Band	Chl	Port	Freq in MHz	Mode	P _{dBm}	Ant Gain dBd	Cable Loss	ERP P _{dBm}	ERP P _{mw}	ERP P _w	Limit	Delta	Result
Low	Low	2	902.250500	ATA	32.08	11.85	1.10	42.83	19186.687	19.19	30.00	-10.81	PASS
Low	Middle	2	902.999250	ATA	32.06	11.85	1.10	42.81	19098.533	19.10	30.00	-10.90	PASS
Low	High	2	903.750870	ATA	32.11	11.85	1.10	42.86	19319.683	19.32	30.00	-10.68	PASS
High	Low	2	910.000370	ATA	32.04	11.85	1.10	42.79	19010.783	19.01	30.00	-10.99	PASS
High	Middle	2	915.751000	ATA	31.94	11.85	1.10	42.69	18578.045	18.58	30.00	-11.42	PASS
High	High	2	921.500370	ATA	32.02	11.85	1.10	42.77	18923.436	18.92	30.00	-11.08	PASS
High	Low	2	911.750000	eGo	31.99	11.85	1.10	42.74	18793.168	18.79	30.00	-11.21	PASS
High	Middle	2	915.751250	eGo	31.74	11.85	1.10	42.49	17741.895	17.74	30.00	-12.26	PASS
High	High	2	919.750000	eGo	31.83	11.85	1.10	42.58	18113.401	18.11	30.00	-11.89	PASS
High	Low	2	911.750000	EPC	31.94	11.85	1.10	42.69	18578.045	18.58	30.00	-11.42	PASS
High	Middle	2	915.750000	EPC	31.88	11.85	1.10	42.63	18323.144	18.32	30.00	-11.68	PASS
High	High	2	919.750000	EPC	31.81	11.85	1.10	42.56	18030.177	18.03	30.00	-11.97	PASS
High	Low	2	911.750000	SeGo	32.04	11.85	1.10	42.79	19010.783	19.01	30.00	-10.99	PASS
High	Middle	2	915.749380	SeGo	31.77	11.85	1.10	42.52	17864.876	17.86	30.00	-12.14	PASS
High	High	2	919.750620	SeGo	31.92	11.85	1.10	42.67	18492.686	18.49	30.00	-11.51	PASS
High	Low	2	911.747500	IAG	31.96	11.85	1.10	42.71	18663.797	18.66	30.00	-11.34	PASS
High	Middle	2	915.748750	IAG	31.88	11.85	1.10	42.63	18323.144	18.32	30.00	-11.68	PASS
High	High	2	919.748750	IAG	31.59	11.85	1.10	42.34	17139.573	17.14	30.00	-12.86	PASS

Note: EUT has one transmitter circuit which is multiplexed through four ports (0 - 3). Transmitter Output Power was measured on each port to verify consistency between ports. Only one port can be active at any time.

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		RF Power Output									
DNB Job Number:		76136		Date:		17 Mar 2018		Conformance Standard FCC Part 90 RSS-137					
Customer:		Transcore		Model Number:		MPRXV1							
Description:		Multiprotocol Reader Extreme		Worst Case Configuration - High Gain Antenna with Low Loss Cable		Clause 90.205(I) RSS-137 cl 6.4							
Environmental Conditions													
Ambient Temperature				Relative Humidity				Barometric Pressure					
21 °C				25 %				101.2 kPa					
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>													
Band	Chl	Port	Freq in MHz	Mode	P _{dBm}	Ant Gain dBd	Cable Loss	ERP P _{dBm}	ERP P _{mw}	ERP P _w	Limit	Delta	Result
Low	Low	3	902.251250	ATA	32.11	11.85	1.10	42.86	19319.683	19.32	30.00	-10.68	PASS
Low	Middle	3	902.999630	ATA	32.05	11.85	1.10	42.80	19054.607	19.05	30.00	-10.95	PASS
Low	High	3	903.750870	ATA	32.05	11.85	1.10	42.80	19054.607	19.05	30.00	-10.95	PASS
High	Low	3	910.000000	ATA	32.06	11.85	1.10	42.81	19098.533	19.10	30.00	-10.90	PASS
High	Middle	3	915.748880	ATA	32.00	11.85	1.10	42.75	18836.491	18.84	30.00	-11.16	PASS
High	High	3	921.499880	ATA	32.08	11.85	1.10	42.83	19186.687	19.19	30.00	-10.81	PASS
High	Low	3	911.750620	eGo	31.89	11.85	1.10	42.64	18365.383	18.37	30.00	-11.63	PASS
High	Middle	3	915.750000	eGo	31.83	11.85	1.10	42.58	18113.401	18.11	30.00	-11.89	PASS
High	High	3	919.750620	eGo	31.74	11.85	1.10	42.49	17741.895	17.74	30.00	-12.26	PASS
High	Low	3	911.750000	EPC	31.95	11.85	1.10	42.70	18620.871	18.62	30.00	-11.38	PASS
High	Middle	3	915.750620	EPC	31.90	11.85	1.10	42.65	18407.720	18.41	30.00	-11.59	PASS
High	High	3	919.750620	EPC	31.83	11.85	1.10	42.58	18113.401	18.11	30.00	-11.89	PASS
High	Low	3	911.750620	SeGo	32.06	11.85	1.10	42.81	19098.533	19.10	30.00	-10.90	PASS
High	Middle	3	915.750620	SeGo	31.78	11.85	1.10	42.53	17906.059	17.91	30.00	-12.09	PASS
High	High	3	919.750620	SeGo	31.90	11.85	1.10	42.65	18407.720	18.41	30.00	-11.59	PASS
High	Low	3	911.748750	IAG	31.76	11.85	1.10	42.51	17823.788	17.82	30.00	-12.18	PASS
High	Middle	3	915.745630	IAG	31.65	11.85	1.10	42.40	17378.008	17.38	30.00	-12.62	PASS
High	High	3	919.748750	IAG	31.80	11.85	1.10	42.55	17988.709	17.99	30.00	-12.01	PASS

Note: EUT has one transmitter circuit which is multiplexed through four ports (0 - 3). Transmitter Output Power was measured on each port to verify consistency between ports. Only one port can be active at any time.



1100 E Chalk Creek Road
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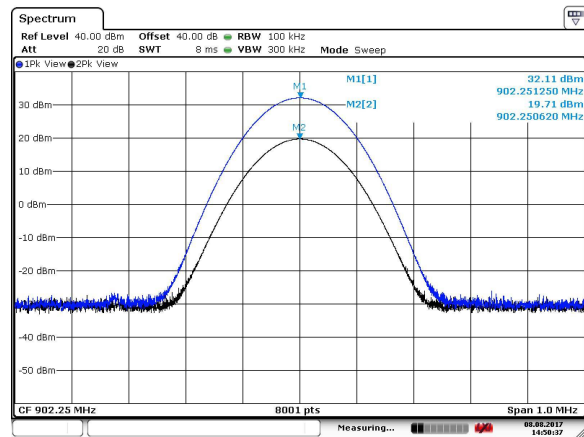
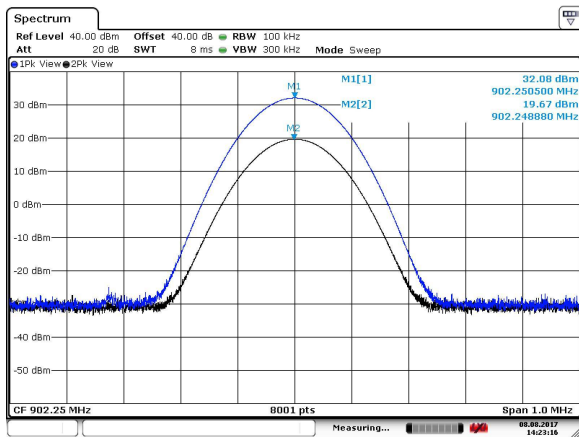
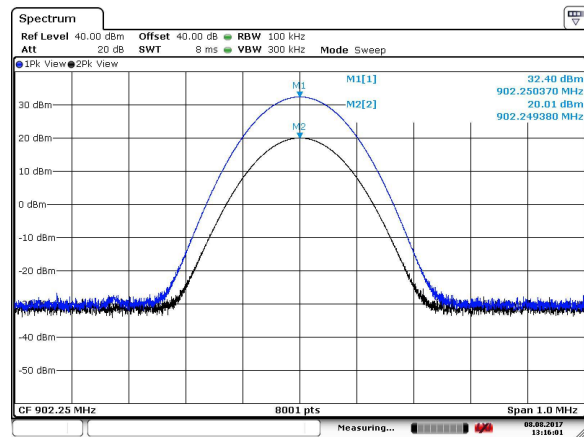
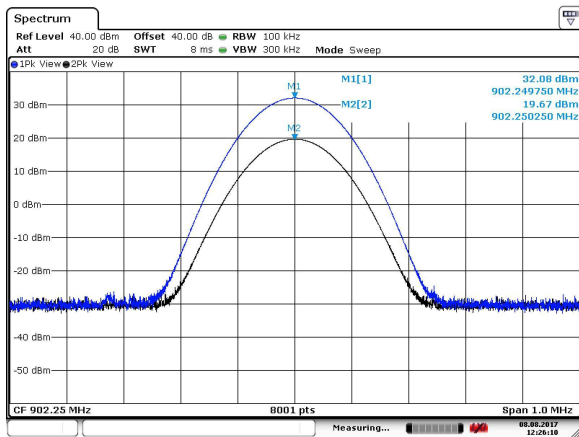
RF Power Output

DNB Job Number:	76136	Date:	8-10 Aug 2017	Conformance Standard FCC Part 90 RSS-137
Customer:	Transcore			
Model Number:	MPRXV1			
Description:	Multiprotocol Reader Extreme			Clause 90.205(1) RSS-137 cl 6.4

LEGEND TO PLOTS BELOW

ATA - Band 1 - Port 0 - Low Channel	ATA - Band 1 - Port 1 - Low Channel
ATA - Band 1 - Port 2 - Low Channel	ATA - Band 1 - Port 3 - Low Channel

Note: Plots below show maximum and minimum power levels.





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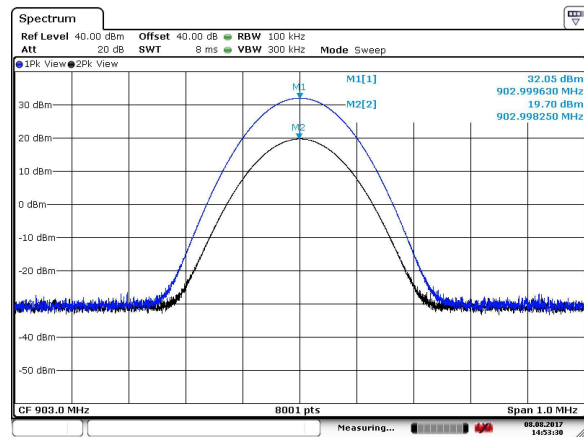
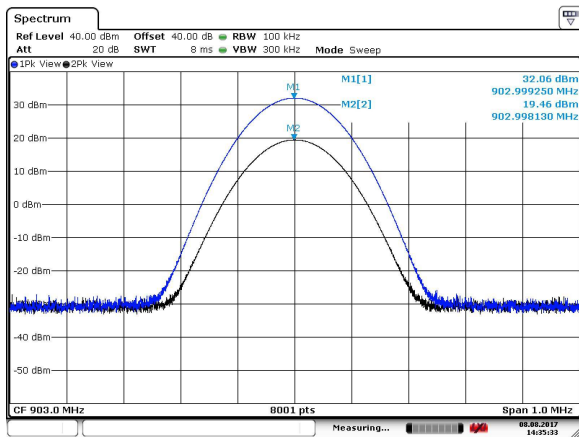
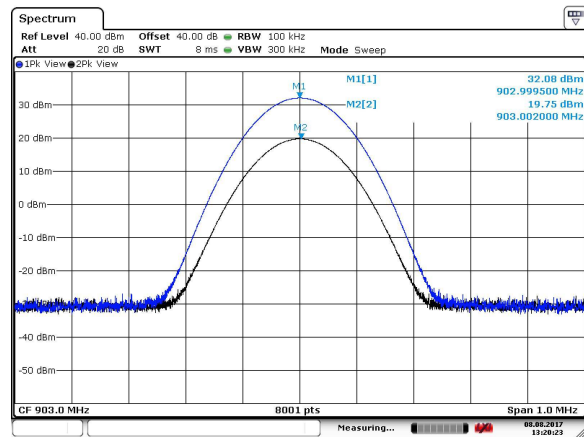
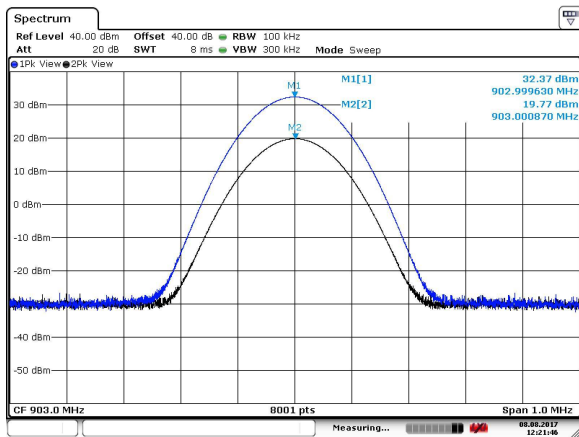
RF Power Output

DNB Job Number:	76136	Date:	8-10 Aug 2017	Conformance Standard FCC Part 90 RSS-137
Customer:	Transcore			
Model Number:	MPRXV1			
Description:	Multiprotocol Reader Extreme			Clause 90.205(1) RSS-137 cl 6.4

LEGEND TO PLOTS BELOW

ATA - Band 1 - Port 0 - Middle Channel	ATA - Band 1 - Port 1 - Middle Channel
ATA - Band 1 - Port 2 - Middle Channel	ATA - Band 1 - Port 3 - Middle Channel

Note: Plots below show maximum and minimum power levels.





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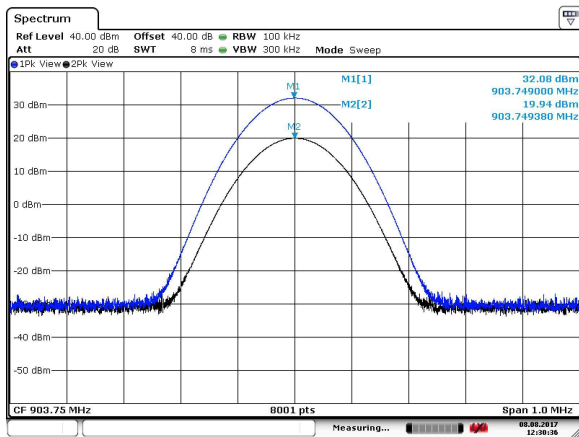
RF Power Output

DNB Job Number:	76136	Date:	8-10 Aug 2017	Conformance Standard FCC Part 90 RSS-137
Customer:	Transcore			
Model Number:	MPRXV1			
Description:	Multiprotocol Reader Extreme			Clause 90.205(1) RSS-137 cl 6.4

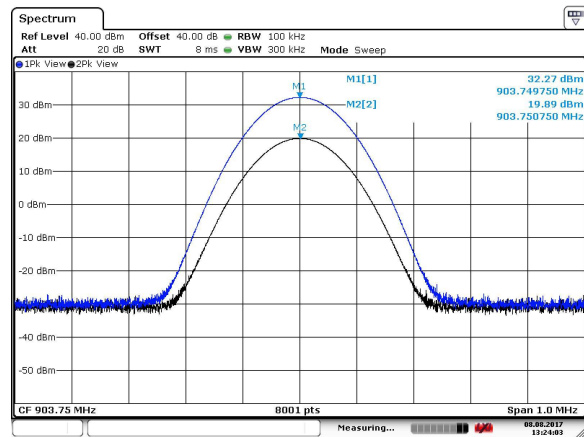
LEGEND TO PLOTS BELOW

ATA - Band 1 - Port 0 - High Channel	ATA - Band 1 - Port 1 - High Channel
ATA - Band 1 - Port 2 - High Channel	ATA - Band 1 - Port 3 - High Channel

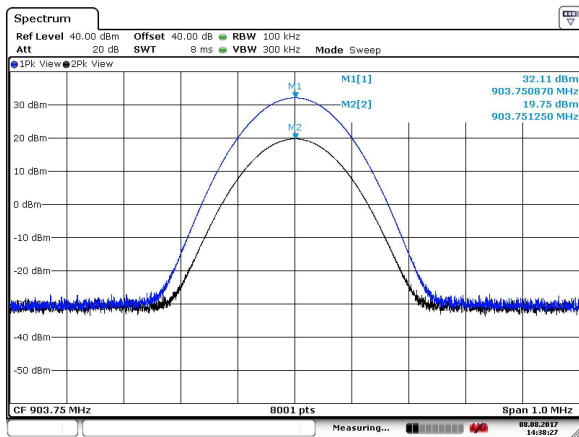
Note: Plots below show maximum and minimum power levels.



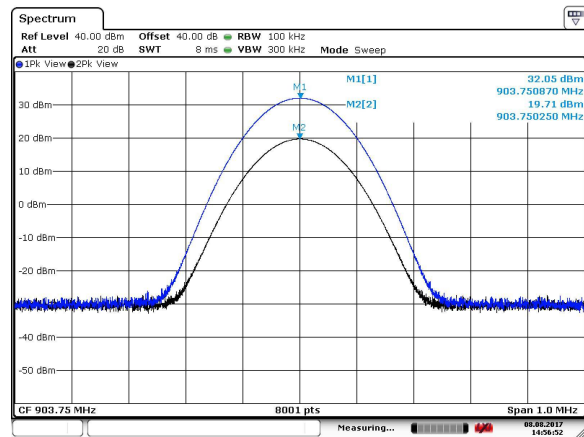
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Date: 8.AUG.2017 13:24:04



Date: 8.AUG.2017 14:38:28



Date: 8.AUG.2017 14:56:53



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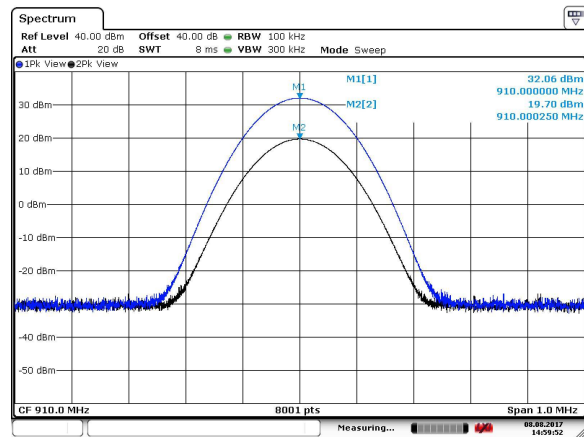
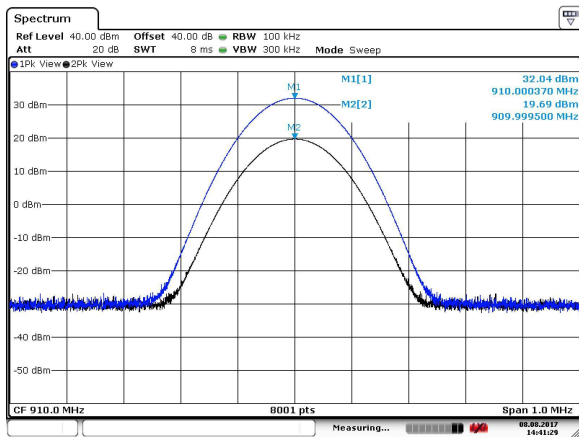
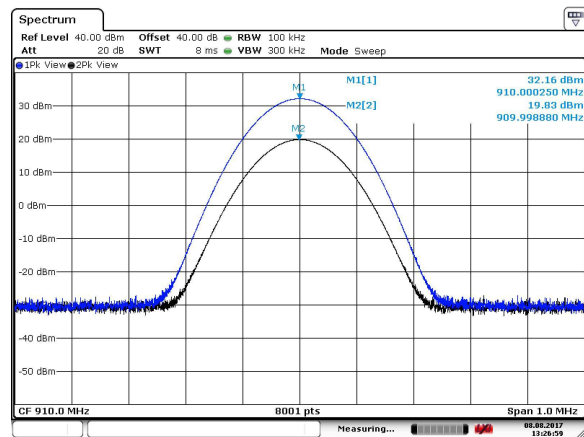
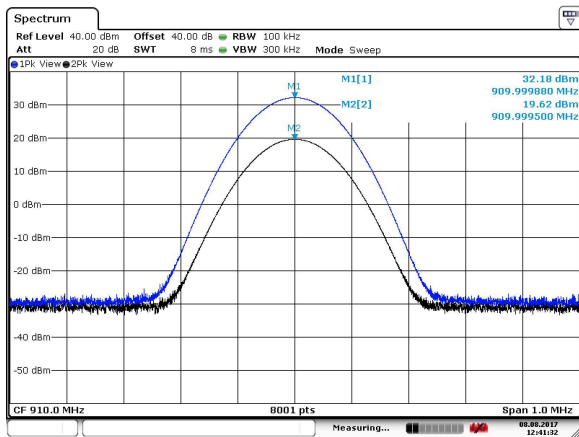
RF Power Output

DNB Job Number:	76136	Date:	8-10 Aug 2017	Conformance Standard FCC Part 90 RSS-137
Customer:	Transcore			
Model Number:	MPRXV1			
Description:	Multiprotocol Reader Extreme			Clause 90.205(1) RSS-137 cl 6.4

LEGEND TO PLOTS BELOW

ATA - Band 2 - Port 0 - Low Channel	ATA - Band 2 - Port 1 - Low Channel
ATA - Band 2 - Port 2 - Low Channel	ATA - Band 2 - Port 3 - Low Channel

Note: Plots below show maximum and minimum power levels.





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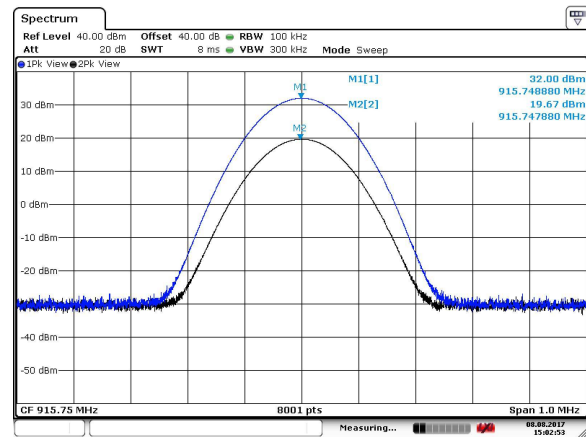
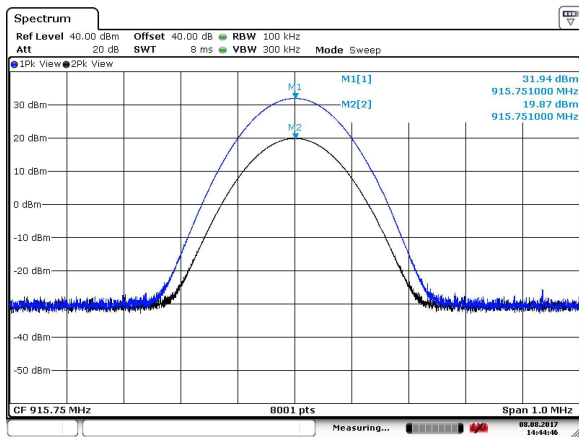
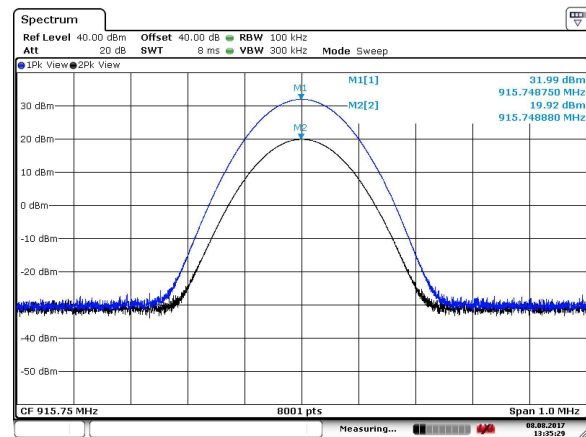
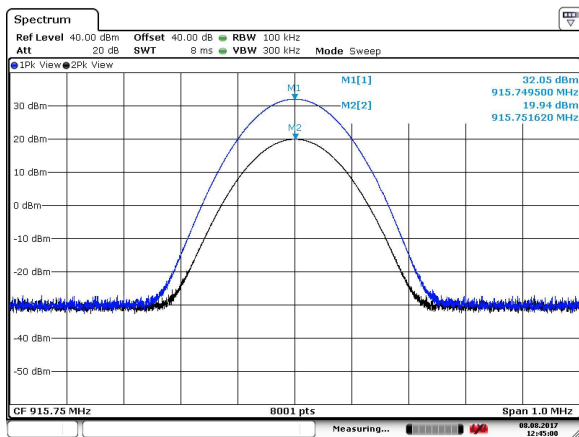
RF Power Output

DNB Job Number:	76136	Date:	8-10 Aug 2017	Conformance Standard FCC Part 90 RSS-137
Customer:	Transcore			
Model Number:	MPRXV1			
Description:	Multiprotocol Reader Extreme			Clause 90.205(1) RSS-137 cl 6.4

LEGEND TO PLOTS BELOW

ATA - Band 2 - Port 0 - Middle Channel	ATA - Band 2 - Port 1 - Middle Channel
ATA - Band 2 - Port 2 - Middle Channel	ATA - Band 2 - Port 3 - Middle Channel

Note: Plots below show maximum and minimum power levels.





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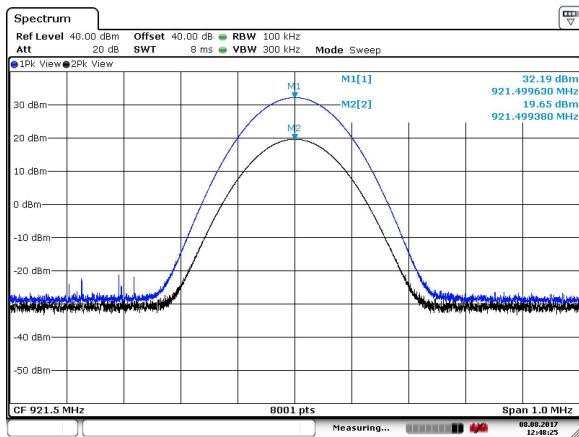
RF Power Output

DNB Job Number:	76136	Date:	8-10 Aug 2017	Conformance Standard FCC Part 90 RSS-137
Customer:	Transcore			
Model Number:	MPRXV1			
Description:	Multiprotocol Reader Extreme			Clause 90.205(1) RSS-137 cl 6.4

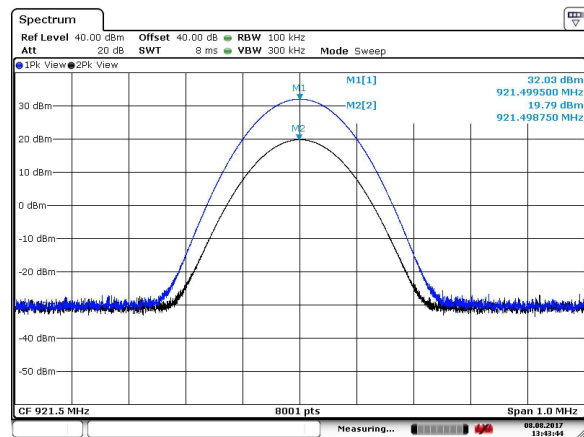
LEGEND TO PLOTS BELOW

ATA - Band 2 - Port 0 - High Channel	ATA - Band 2 - Port 1 - High Channel
ATA - Band 2 - Port 2 - High Channel	ATA - Band 2 - Port 3 - High Channel

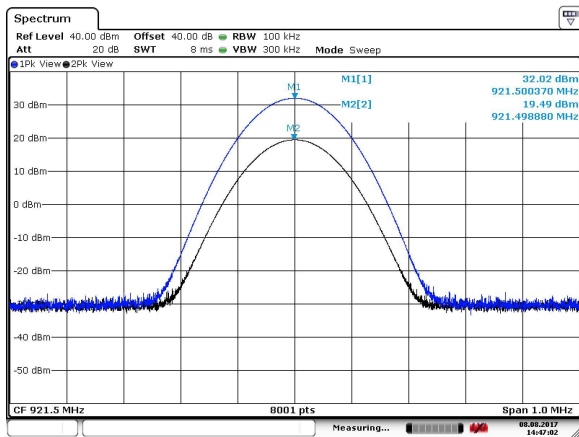
Note: Plots below show maximum and minimum power levels.



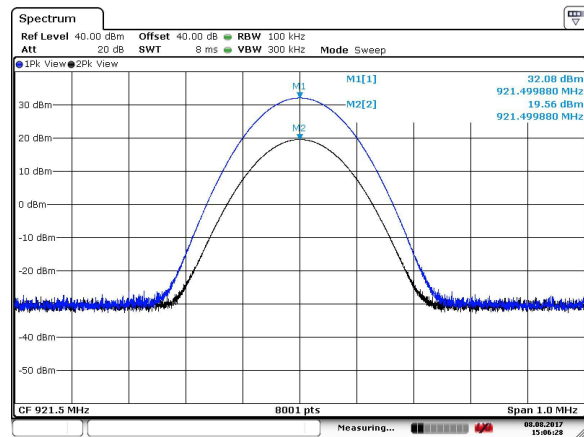
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Date: 8.AUG.2017 15:06:28



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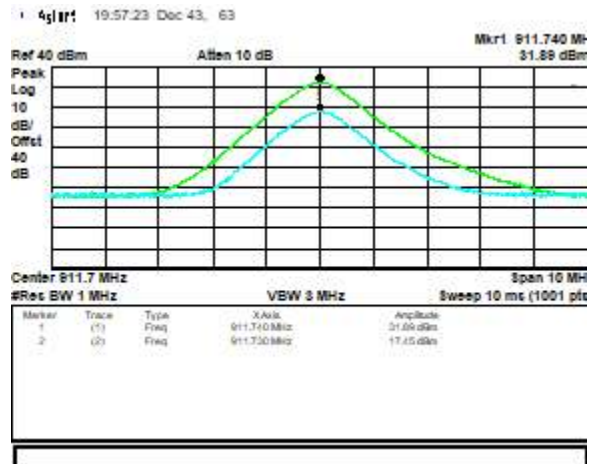
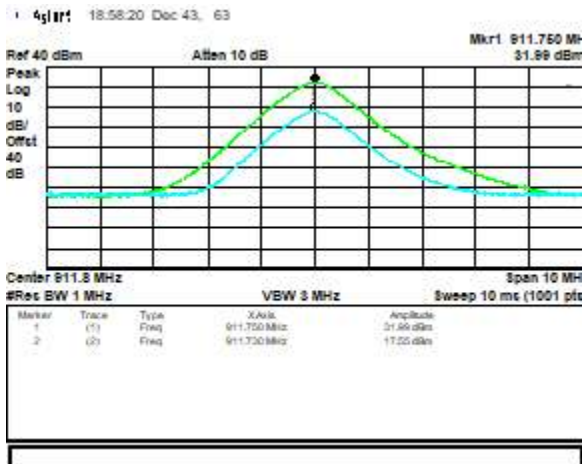
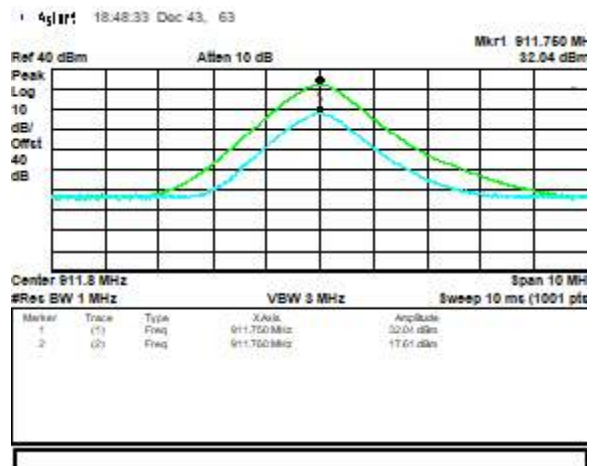
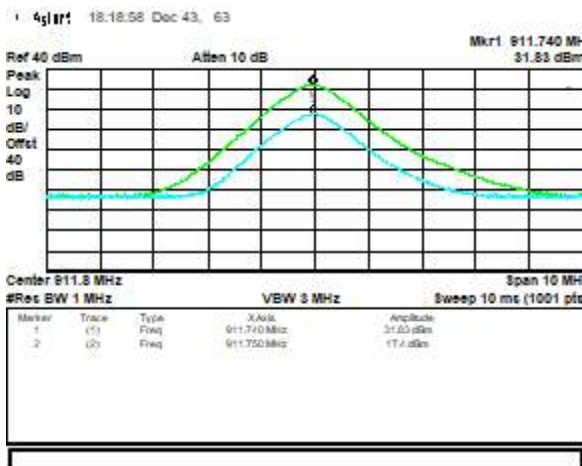
RF Power Output

DNB Job Number:	76136	Date:	16 Mar 2018	Conformance Standard FCC Part 90 RSS-137
Customer:	Transcore			
Model Number:	MPRXV1			
Description:	Multiprotocol Reader Extreme			Clause 90.205(I) RSS-137 cl 6.4

LEGEND TO PLOTS BELOW

eGo - Port 0 - Low Channel	eGo - Port 1 - Low Channel
eGo - Port 2 - Low Channel	eGo - Port 3 - Low Channel

Note: Plots below show maximum and minimum power levels.





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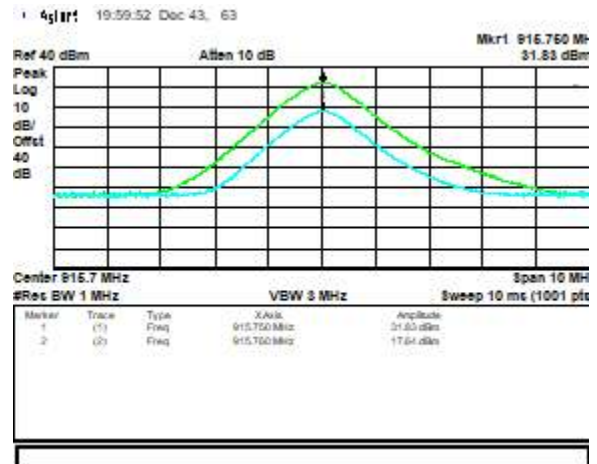
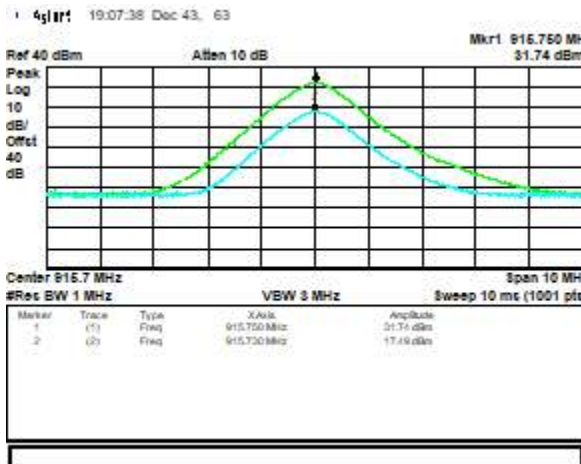
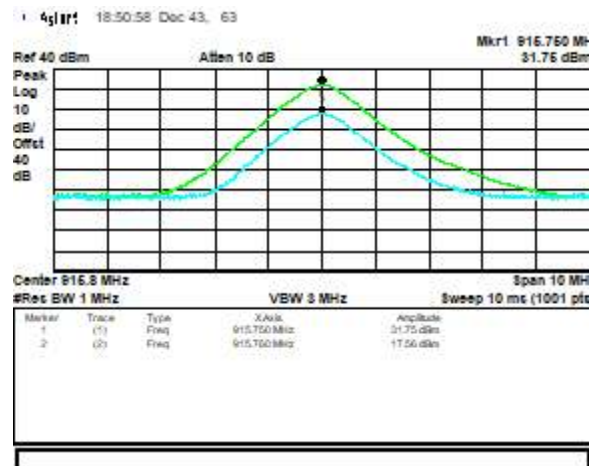
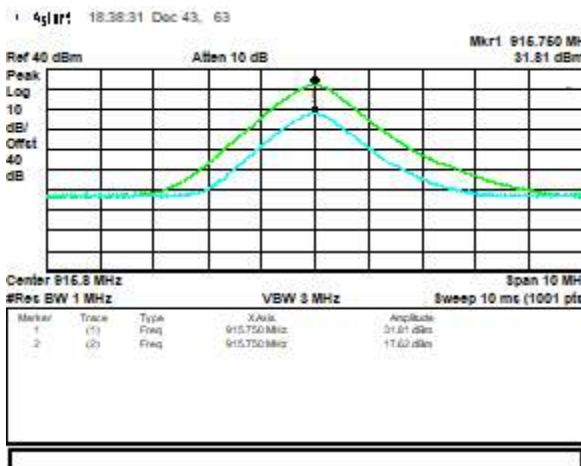
RF Power Output

DNB Job Number:	76136	Date:	16 Mar 2018	Conformance Standard FCC Part 90 RSS-137
Customer:	Transcore			
Model Number:	MPRXV1			
Description:	Multiprotocol Reader Extreme			Clause 90.205(1) RSS-137 cl 6.4

LEGEND TO PLOTS BELOW

eGo - Port 0 - Middle Channel	eGo - Port 1 - Middle Channel
eGo - Port 2 - Middle Channel	eGo - Port 3 - Middle Channel

Note: Plots below show maximum and minimum power levels.





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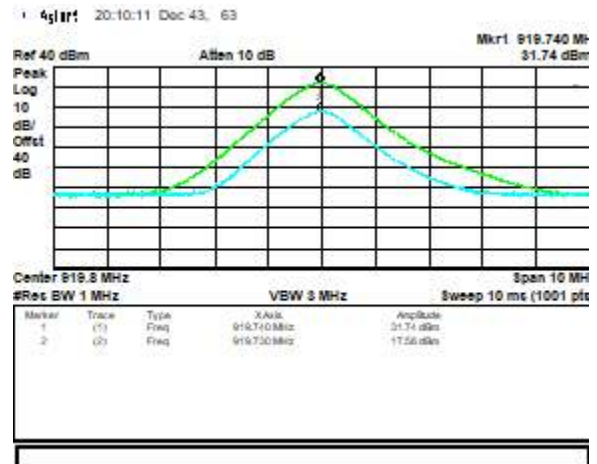
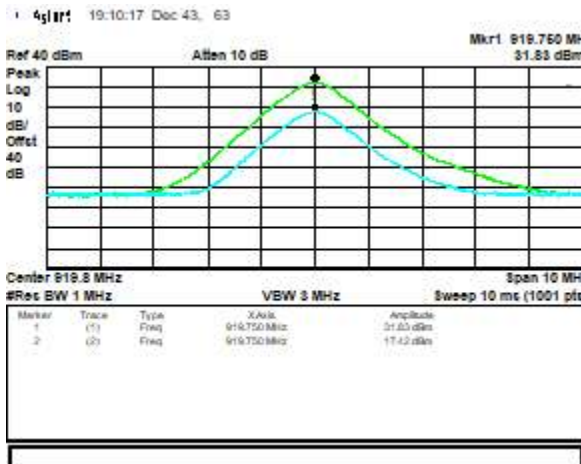
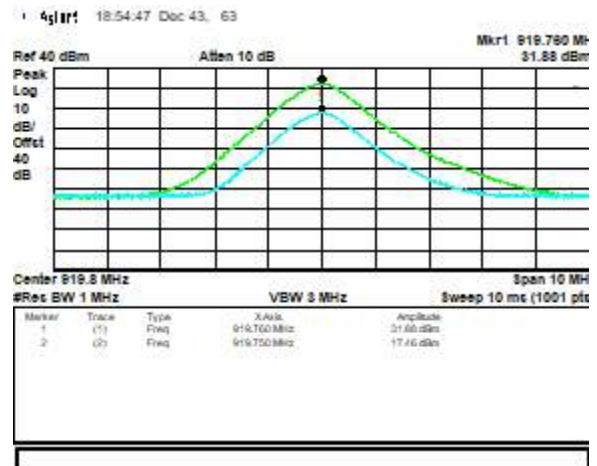
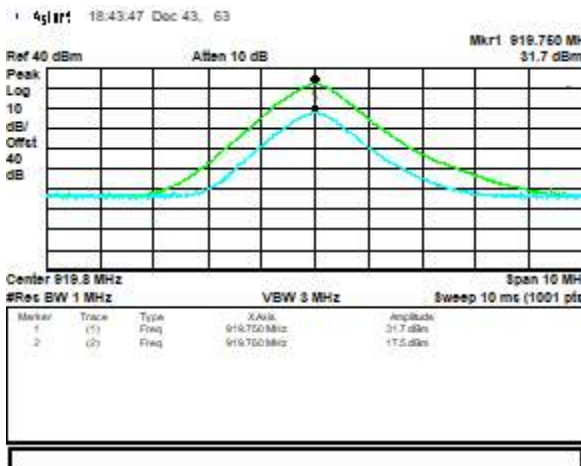
RF Power Output

DNB Job Number:	76136	Date:	16 Mar 2018	Conformance Standard FCC Part 90 RSS-137
Customer:	Transcore			
Model Number:	MPRXV1			
Description:	Multiprotocol Reader Extreme			Clause 90.205(1) RSS-137 cl 6.4

LEGEND TO PLOTS BELOW

eGo - Port 0 - High Channel	eGo - Port 1 - High Channel
eGo - Port 2 - High Channel	eGo - Port 3 - High Channel

Note: Plots below show maximum and minimum power levels.





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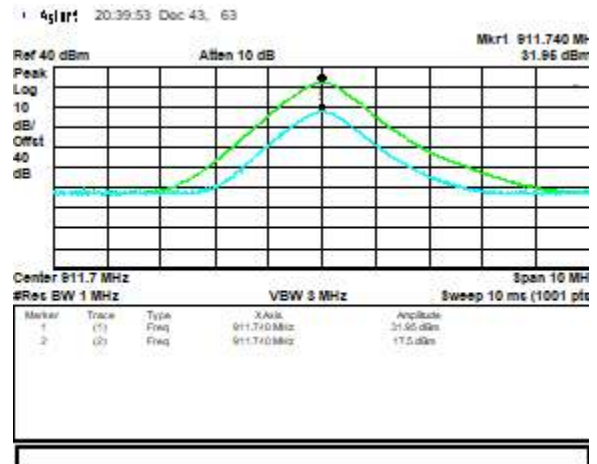
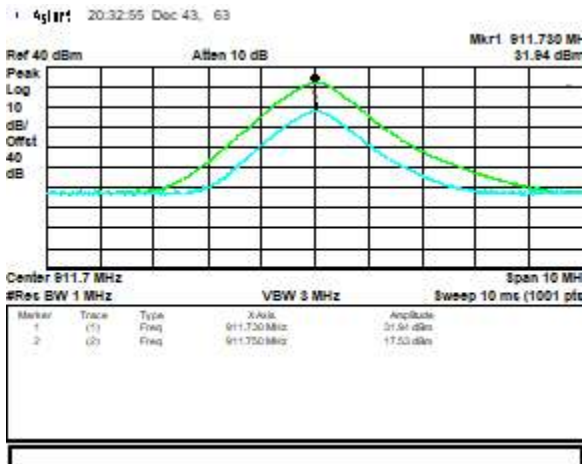
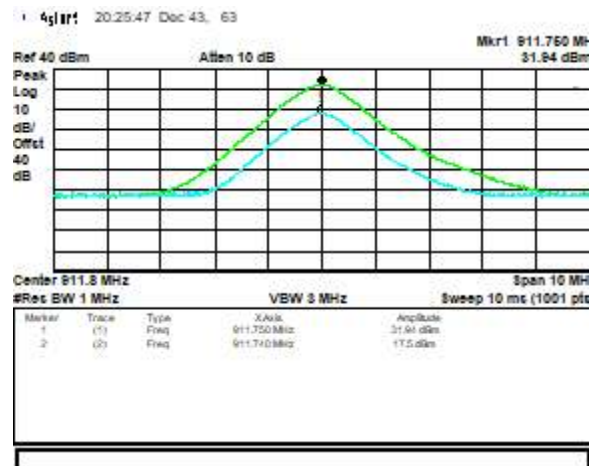
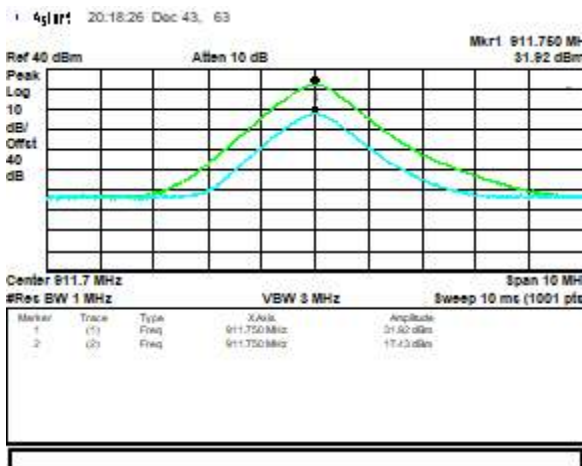
RF Power Output

DNB Job Number:	76136	Date:	16 Mar 2018	Conformance Standard FCC Part 90 RSS-137
Customer:	Transcore			
Model Number:	MPRXV1			
Description:	Multiprotocol Reader Extreme			Clause 90.205(1) RSS-137 cl 6.4

LEGEND TO PLOTS BELOW

EPC - Port 0 - Low Channel	EPC - Port 1 - Low Channel
EPC - Port 2 - Low Channel	EPC - Port 3 - Low Channel

Note: Plots below show maximum and minimum power levels.





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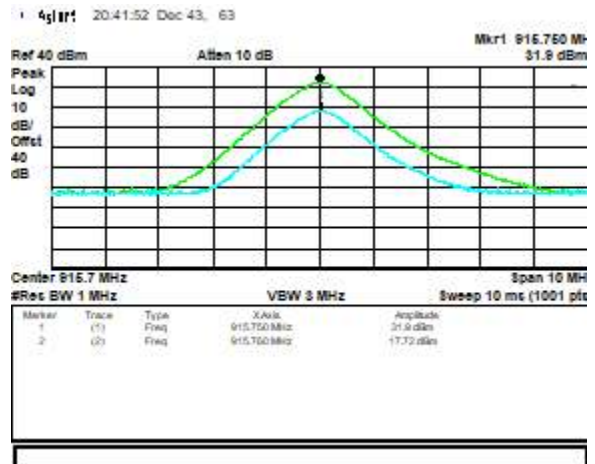
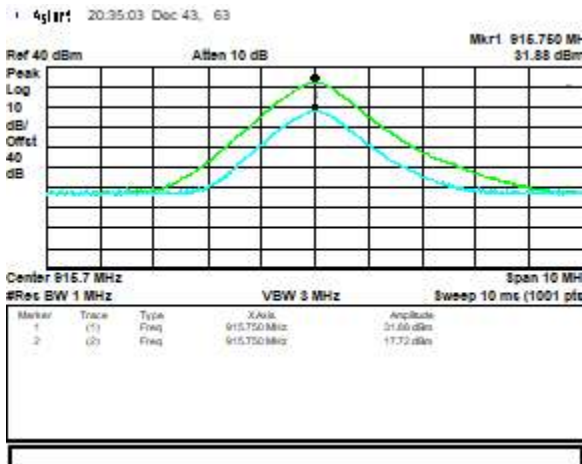
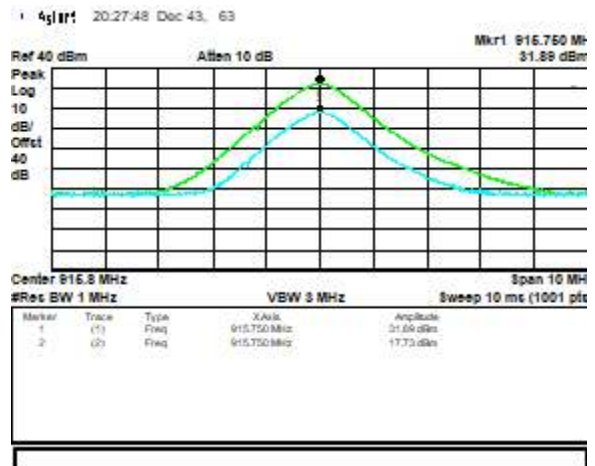
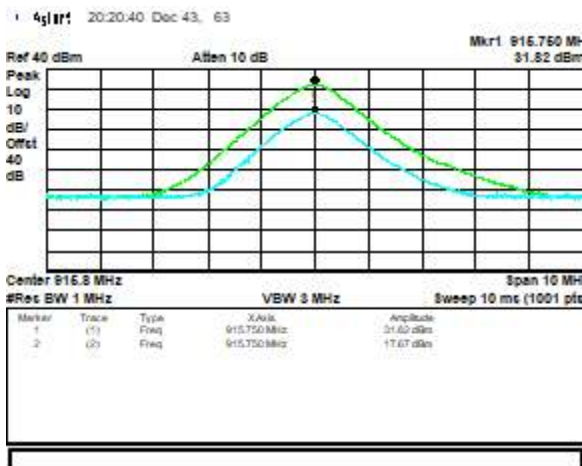
RF Power Output

DNB Job Number:	76136	Date:	16 Mar 2018	Conformance Standard FCC Part 90 RSS-137
Customer:	Transcore			
Model Number:	MPRXV1			
Description:	Multiprotocol Reader Extreme			Clause 90.205(1) RSS-137 cl 6.4

LEGEND TO PLOTS BELOW

EPC - Port 0 - Middle Channel	EPC - Port 1 - Middle Channel
EPC - Port 2 - Middle Channel	EPC - Port 3 - Middle Channel

Note: Plots below show maximum and minimum power levels.





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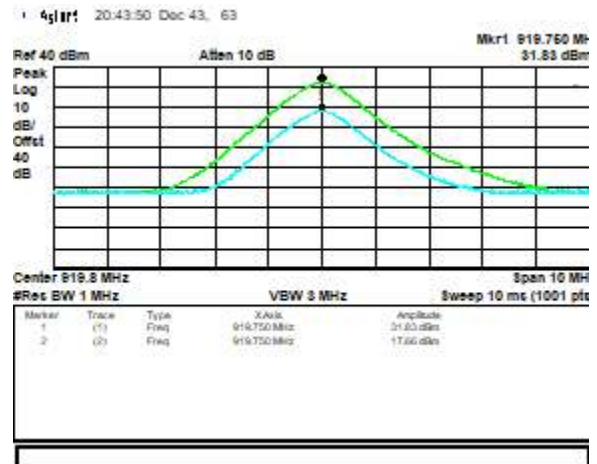
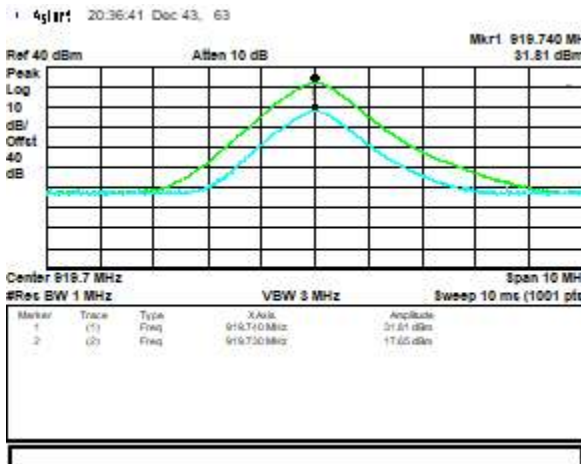
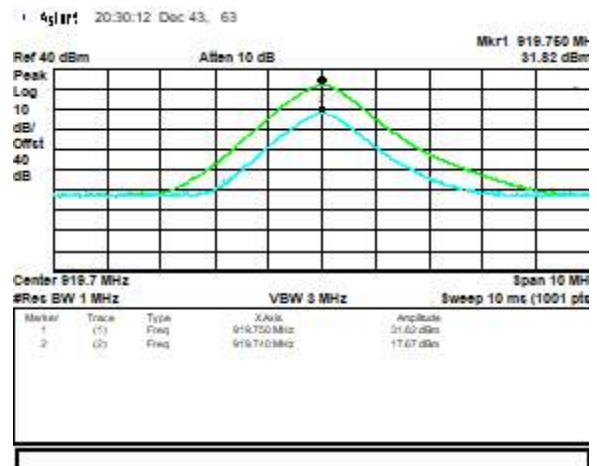
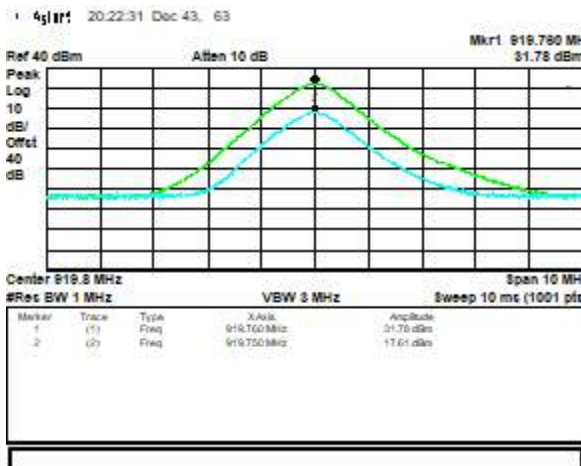
RF Power Output

DNB Job Number:	76136	Date:	16 Mar 2018	Conformance Standard FCC Part 90 RSS-137
Customer:	Transcore			
Model Number:	MPRXV1			
Description:	Multiprotocol Reader Extreme			Clause 90.205(1) RSS-137 cl 6.4

LEGEND TO PLOTS BELOW

EPC - Port 0 - High Channel	EPC - Port 1 - High Channel
EPC - Port 2 - High Channel	EPC - Port 3 - High Channel

Note: Plots below show maximum and minimum power levels.





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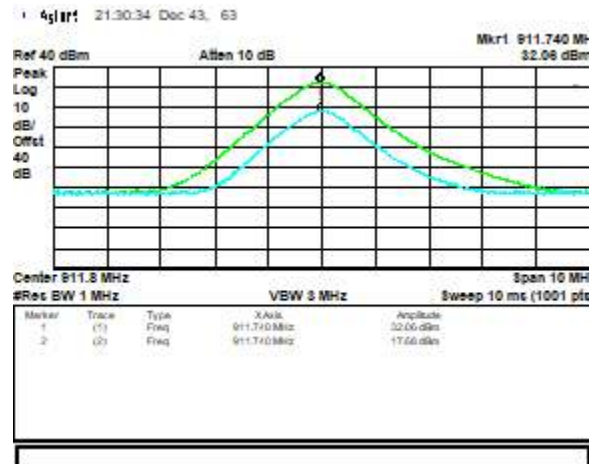
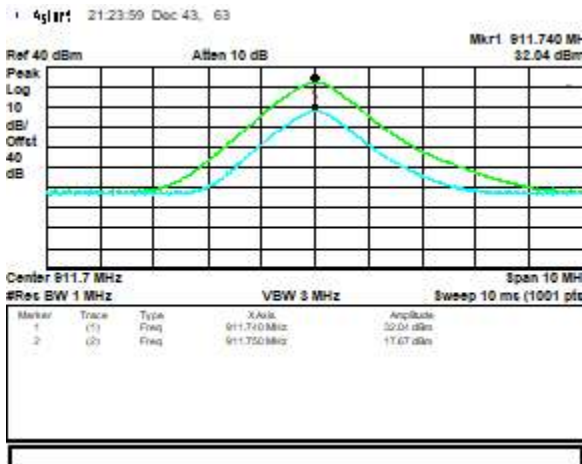
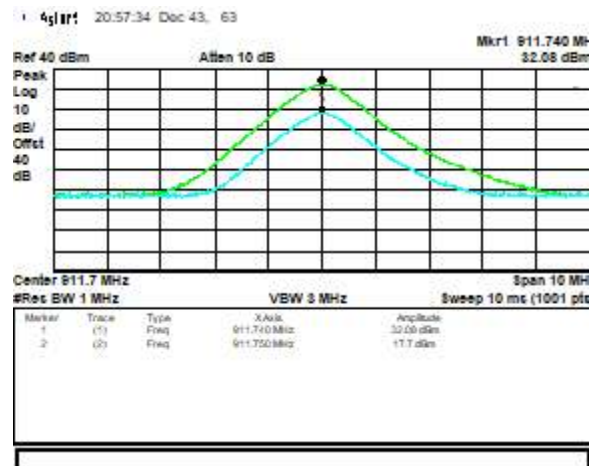
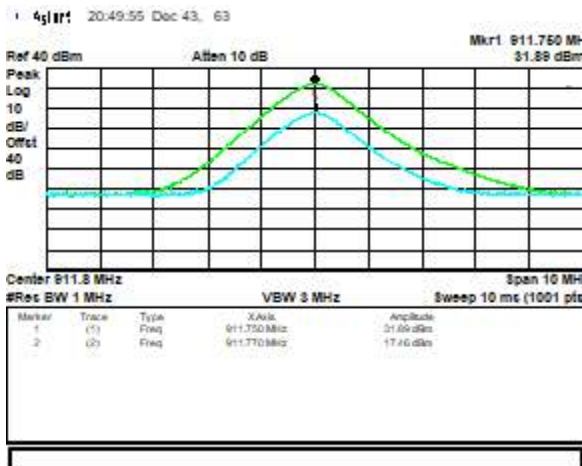
RF Power Output

DNB Job Number:	76136	Date:	16 Mar 2018	Conformance Standard FCC Part 90 RSS-137
Customer:	Transcore			
Model Number:	MPRXV1			
Description:	Multiprotocol Reader Extreme			Clause 90.205(1) RSS-137 cl 6.4

LEGEND TO PLOTS BELOW

SeGo - Port 0 - Low Channel	SeGo - Port 1 - Low Channel
SeGo - Port 2 - Low Channel	SeGo - Port 3 - Low Channel

Note: Plots below show maximum and minimum power levels.





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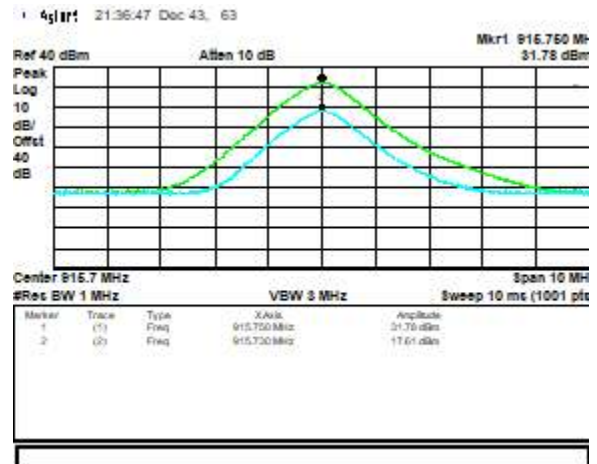
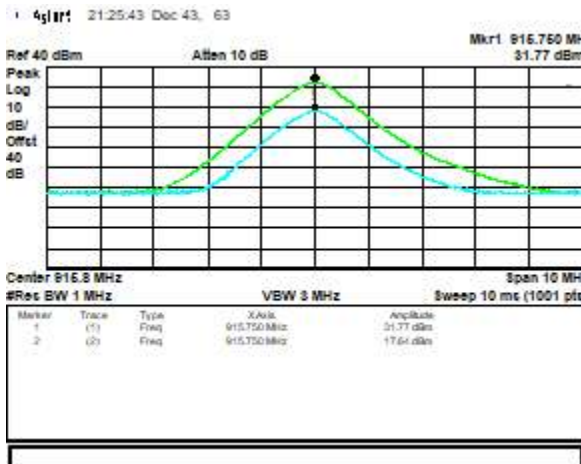
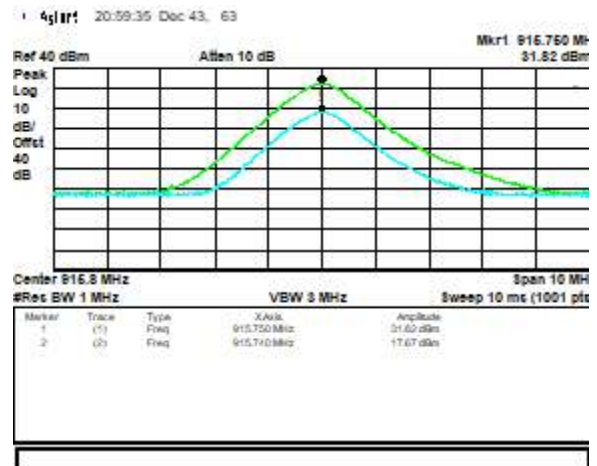
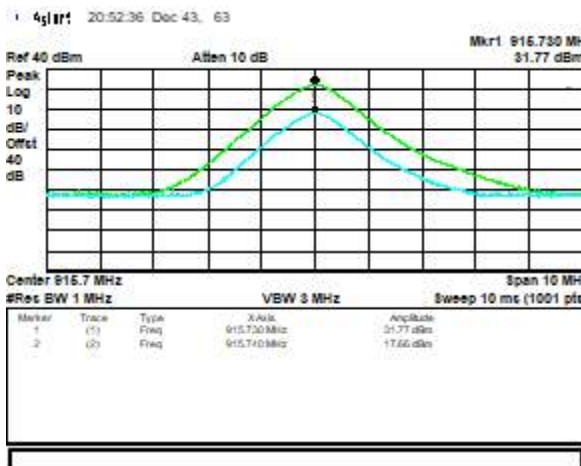
RF Power Output

DNB Job Number:	76136	Date:	16 Mar 2018	Conformance Standard FCC Part 90 RSS-137
Customer:	Transcore			
Model Number:	MPRXV1			
Description:	Multiprotocol Reader Extreme			Clause 90.205(1) RSS-137 cl 6.4

LEGEND TO PLOTS BELOW

SeGo - Port 0 - Middle Channel	SeGo - Port 1 - Middle Channel
SeGo - Port 2 - Middle Channel	SeGo - Port 3 - Middle Channel

Note: Plots below show maximum and minimum power levels.





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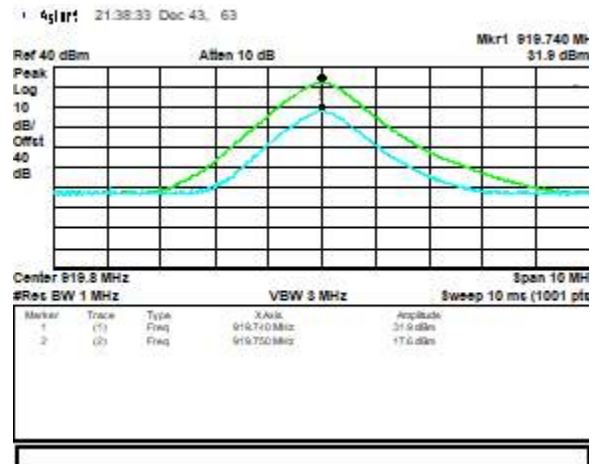
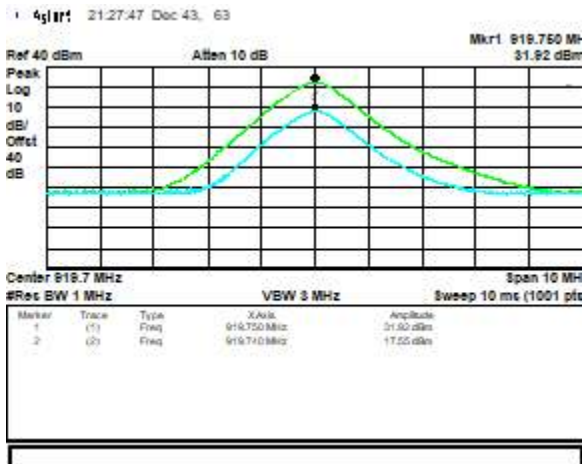
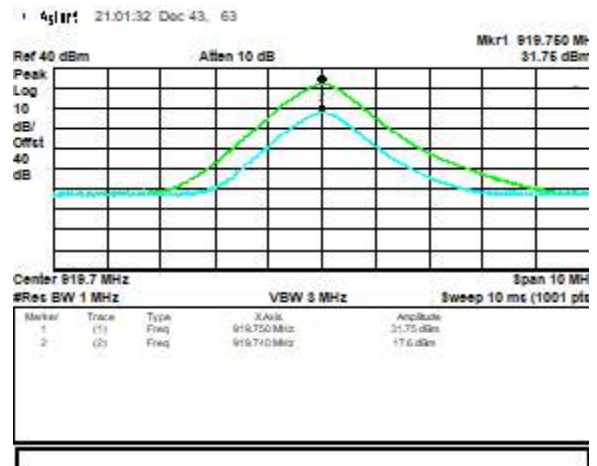
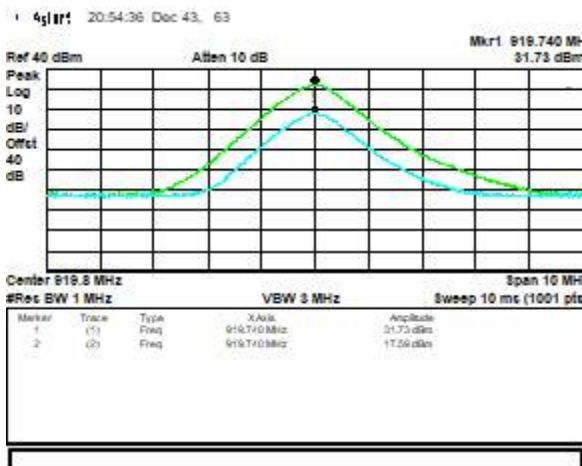
RF Power Output

DNB Job Number:	76136	Date:	16 Mar 2018	Conformance Standard FCC Part 90 RSS-137
Customer:	Transcore			
Model Number:	MPRXV1			
Description:	Multiprotocol Reader Extreme			Clause 90.205(I) RSS-137 cl 6.4

LEGEND TO PLOTS BELOW

SeGo - Port 0 - High Channel	SeGo - Port 1 - High Channel
SeGo - Port 2 - High Channel	SeGo - Port 3 - High Channel

Note: Plots below show maximum and minimum power levels.





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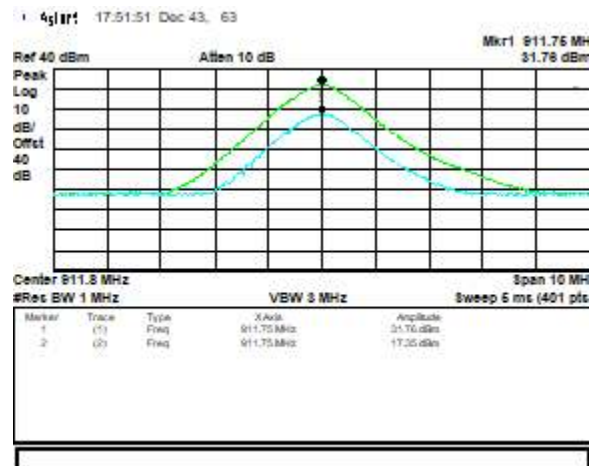
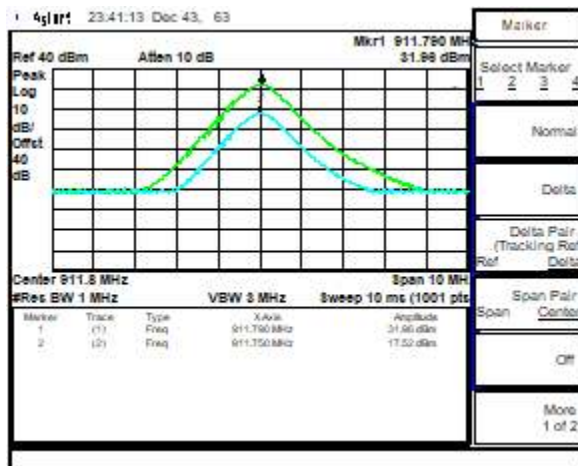
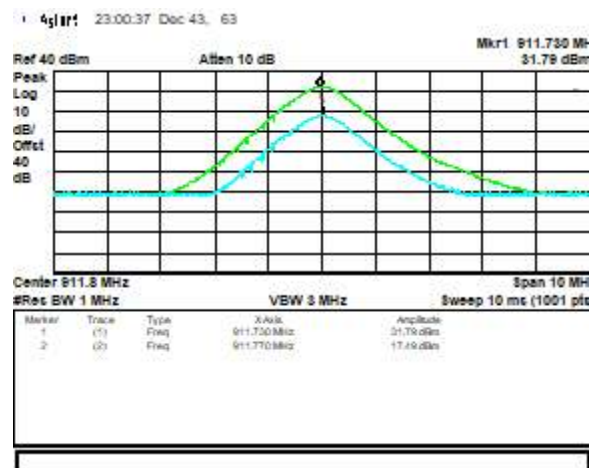
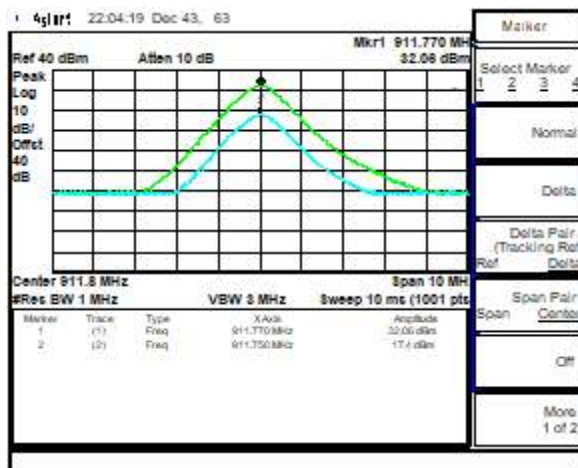
RF Power Output

DNB Job Number:	76136	Date:	16-17 Mar 2018	Conformance Standard FCC Part 90 RSS-137
Customer:	Transcore			
Model Number:	MPRXV1			
Description:	Multiprotocol Reader Extreme			Clause 90.205(1) RSS-137 cl 6.4

LEGEND TO PLOTS BELOW

IAG - Port 0 - Low Channel	IAG - Port 1 - Low Channel
IAG - Port 2 - Low Channel	IAG - Port 3 - Low Channel

Note: Plots below show maximum and minimum power levels.





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RF Power Output

DNB Job Number:	76136	Date:	16-17 Mar 2018	Conformance Standard FCC Part 90 RSS-137
Customer:	Transcore			
Model Number:	MPRXV1			Clause 90.205(l) RSS-137 cl 6.4
Description:	Multiprotocol Reader Extreme			

LEGEND TO PLOTS BELOW

IAG - Port 0 - Middle Channel	IAG - Port 1 - Middle Channel
IAG - Port 2 - Middle Channel	IAG - Port 3 - Middle Channel

Note: Plots below show maximum and minimum power levels.

