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## **SAR EXCLUSION REPORT**

**Manufacturer:** Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis, Indiana 46268 USA

**Applicant:** Same as Above

**Product Name:** Scout

**Product Description:** The Scout device is an extended range 125kHz RFID reader with Bluetooth connectivity that is swept across the ground to detect and read RFID tag data.

**Operating Voltage/Frequency:** Battery-Operated

**Model:** Scout

**FCC ID:** QFG-SCOUT

**Standard(s):**

- KDB447498 Appendix A

**Report Constructed by:**

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**Report Reviewed by:**

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## 1 ADMINISTRATIVE INFORMATION

### 1.1 Measurement Location:

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

### 1.2 Document History

Document Number	Description	Issue Date	Approved By
F2P22228C-02E	First Issue	2020-08-12	K. Littell



## 2 SUMMARY OF RESULTS

	Standard(s)	Results
SAR Exclusion	KDB447498, Appendix A	Complies

Modifications Made to the Equipment
None



### 3 ENGINEERING STATEMENT

This report has been prepared on behalf of Dow AgroSciences LLC to provide documentation for the SAR Exclusion herein. This equipment has been tested and found to comply with the SAR Exclusion levels listed in Appendix A of KDB447498. The minimum distance from the BT module antenna is 5mm. The output power of the BT is 8.55dBm which equals 7.2mW and is below the exclusion limit of 10mW at 5mm.

#### Appendix A

##### SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and $\leq 50$ mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in section 4.3.1 must be applied to determine SAR test exclusion.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	



#### **4 EUT INFORMATION AND DATA**

##### **4.1 Equipment Under Test:**

Product: RFID Tag Reader

Model: Scout

Serial Number: EPAUN1A

Software Version: Model 500G, SW Version 1.0.3

**FCC ID: QFG-SCOUT**

##### **4.2 Trade Name:**

Dow AgroSciences LLC

##### **4.3 Power Supply:**

Battery-Operated

##### **4.4 Applicable Rules:**

KDB447498

##### **4.5 Equipment Category:**

RFID Tag Reader with Bluetooth capabilities

##### **4.6 Antenna:**

Internal loop

##### **4.7 Accessories:**

N/A