US Tech Client Issue Date Model: FCC ID:

FCC ID: IC ID: 13-0142 Nivis,LLC 05-17-2013 VN310

SQB-VN3104034R5 6546A-NIVIS4042P3

SAR/MPE Exclusion for simultaneous transmitter (co-located)

Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline. This is a mobile device.

Measurement Result for VN310, FCC ID: SQB-VN3104034R5

This is a mobile device and the max peak output power is 10.71 + 0.5 = 11.21 dBm = (13.21 mW).

Note: radio firmware power level set to "11".

Measurement Result for BT, FCC ID: T9J-RN42

This is a mobile device and the max peak output power is 5.51 dBm = (4.00 mW).

Co-located Total SAR/MPE results

Both radio have been incorporated into a single hose device. Their respective SAR measurements have been summed together to determine whether or not SAR exceptions per 447498 v05r01, Annex A will apply.

The total SAR measurement for both radios is: 13.21+4.00= 17.21 mW

The radios are co-located at a distance of >40mm away from each other as can be seen in the attached photograph exhibits.

Based on the limits for SAR/MPE in Annex D provided below, SAR/MPE measurements are not necessary. The Annex shows a limit of 25mW threshold at 15mm.

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Appendix D

Applying Estimated SAR for Simultaneous Transmission SAR Test Exclusion

The following Table illustrates the approximate SAR values estimated at selected frequencies, test separation distances and power levels for determining simultaneous transmission SAR test exclusion when standalone SAR is not required. The equation and threshold in section 4.3.2 must be applied to determine the estimated SAR.

andalone SAR t	reshold for sta	re, they are no 4R Exclusion Th num output pow	ower at the S.	imum output p	roximate max	nn are the appi	n "mW" colui	Red numbers i
Min. Dista	mW	200	150	100	50	25	10	MHz
5 (mm)	39					0.3	0.1	150
	27					0.4	0.1	300
	22						0.2	450
	16						0.2	835
	16						0.3	900
	12						0.3	1500
	11						0.4	1900
	10				- 1			2450
	8							3600
	7							5100
	6	7						5400
	6							5800
	mW	200	150	100	50	25	10	MHz
10 (mm)	77				0.3	0.1	0.1	150
	55				0.4	0.2	0.1	300
	45		-			0.2	0.1	450
	33	S. 1				0.3	0.1	835
	32		100			0.3	0.1	900
	24						0.2	1500
	22						0.2	1900
	19						0.2	2450
	16						0.3	3600
	13						0.3	5100
	13						0.3	5400
	12						0.3	5800
	12						0.5	5000
	mW	200	150	100	50	25	10	MHz
15 (mm)	116			0.3	0.2	0.1	0.0	150
	82				0.2	0.1	0.0	300
	67				0.3	0.1	0.1	450
	49					0.2	0.1	835
	47					0.2	0.1	900
	37					0.3	0.1	1500
	33					0.3	0.1	1900
	29					0.3	0.1	2450
	24						0.2	3600
	20]		0.2	5100
	19						0.2	5400
	19						0.2	5800