

SURFORM QC

5972 Sample run	Tube ID	SFT	Volume(L)	D8 RF	f factor
1616	1	1.000	1	3.617	3.6172
Surrogate spike volume(uL) =	250	<----- 30703	1	<-----	PRESPIKE=1 or POSTSPIKE=2
1,1-DFE spike volume(uL) =	0	<-----	2	<-----	PRESPIKE=1 or POSTSPIKE=2
FB spike volume(uL) =	0	<-----	2	<-----	PRESPIKE=1 or POSTSPIKE=2
10 p-Xylene spike volume(uL) =	0	<-----	2	<-----	PRESPIKE=1 or POSTSPIKE=2

Error for STD % = 10

Compound	Surrogate ng injected	Ions	Multipli-cation Factor	Ion Area (10E6)	TIC Area	TIC Area Avg	CONC. (ug/m3)	RF	TRF	RSR
						STD				
1,1,1,2-Tetrafluoroethane	114.99	33	6.669	2.883	19.227	19.2687	69.70	5.968	1.650	1.8656
114.99		69	7.185	2.715	19.507	0.1802				
		83	2.289	8.332	19.072					
1,4-Difluorobenzene	153.06	63	11.242	4.042	45.440	46.1274	166.90	3.318	0.917	0.7793
153.06		88	13.848	3.323	46.017	0.6112				
		114	3.238	14.492	46.925					
D8 Toluene	130.03	98	3.319	10.831	35.948	35.9477	130.00	3.617	1.000	1.0000
130.03		100	5.309	6.771	35.947	0.0004				
D26 Dodecane	0	46	1.000	-1	-1.000	-1.0000				
0		50	1.000	-1	-1.000	0.0000				
		66	1.000	-1	-1.000					
Hexachlorobutadiene	114.81	223	12.223	0.939	11.477	11.4120	41.28	10.060	2.781	3.1500
114.81		225	7.522	1.524	11.464	0.0828				
		227	11.815	0.956	11.295					
*	*	*	*	*	*	*	*	*	*	*
1,1-Difluoroethane	0	51	1.000	-1	-1.000	-1.0000				
34.27		65	1.000	-1	-1.000	0.0000				
*	*	*	*	*	*	*	*	*	*	*
Fluorobenzene	0	70	1.000	-1	-1.000	-1.0000				
160.94		96	1.000	-1	-1.000	0.0000				
*	*	*	*	*	*	*	*	*	*	*
D10 p-Xylene	0	98	1.000	-1	-1.000	-1.0000				
120		116	1.000	-1	-1.000	0.0000				

SURROGATE SUM = 407.88

$$f = RF8 \times SFT / \text{Volume}$$

$$f \times TIC = \text{ug}/\text{m}^3$$

$$f_n \times RF8 \times TIC = \text{ug}/\text{m}^3$$

$$RF8 = f / f_n$$

$$f_n = f / RF8$$

$$RF = (\text{ng} / \text{SFT}) / TIC \quad \text{or} \quad \text{ng} / (TIC \times \text{SFT})$$

$$RFT = \text{SFT} \times RFE$$

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