

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\
 Data File : VL032312.D
 Acq On : 27 Jul 2018 2:37
 Operator : SY/AP
 Sample : VSTDICC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

MMDadoda
 7/30/2018 11:43:00 AM

Quant Time: Jul 27 05:57:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 2018
 QLast Update : Fri Jul 27 05:29:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	2115185	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	5211039	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.32	117	5113852	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.66	95	4037882	9.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.12	85	169764	0.51	ppbv	94
3) Chlorodifluoromethane	3.06	51	110440	0.47	ppbv	99
4) Chloromethane	3.22	50	62882	0.45	ppbv	99
5) Vinyl Chloride	3.34	62	60510	0.46	ppbv	100
6) Bromomethane	3.57	94	32928	0.46	ppbv	97
7) Chloroethane	3.65	64	20834	0.45	ppbv	99
8) Dichlorotetrafluoroethane	3.27	85	139448	0.48	ppbv	98
9) Propene	3.08	41	42634	0.41	ppbv	97
10) Heptane	8.32	43	136439	0.41	ppbv	93
11) Trichlorofluoromethane	4.06	101	128805	0.46	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.62	101	85211	0.48	ppbv	97
13) Ethanol	3.71	45	17801m	0.60	ppbv	
14) Bromoethene	3.85	108	36576m	0.45	ppbv	
15) Acetone	3.97	43	104971	0.48	ppbv	99
16) 1,3-Butadiene	3.41	39	50186	0.45	ppbv	93
17) tert-Butyl alcohol	4.45	59	32424m	0.46	ppbv	
18) 1,1-Dichloroethene	4.41	96	37599	0.45	ppbv	95
19) Isopropyl Alcohol	4.10	45	68012	0.45	ppbv #	95
20) Methylene Chloride	4.47	84	45888	0.54	ppbv	92
21) Allyl Chloride	4.54	41	62518	0.43	ppbv	95
22) trans-1,2-Dichloroethene	5.03	96	36058	0.42	ppbv	89
23) Vinyl Acetate	5.22	43	173689	0.44	ppbv	98
24) 1,1-Dichloroethane	5.16	63	131974	0.46	ppbv	98
25) Ethyl Acetate	5.85	43	224750	0.47	ppbv	99
26) Hexane	5.85	57	98445	0.45	ppbv	94
27) Carbon Disulfide	4.68	76	82292	0.42	ppbv #	85
28) Methyl tert-Butyl Ether	5.19	73	117629	0.36	ppbv	96
29) Chloroform	5.91	83	154852m	0.48	ppbv	
30) Cyclohexane	7.33	84	76986	0.42	ppbv	88
31) cis-1,2-Dichloroethene	5.71	61	82181m	0.39	ppbv	
32) 1,1,1-Trichloroethane	6.69	97	131253	0.40	ppbv	96
34) 2-Butanone	5.41	43	133946m	0.37	ppbv	
35) Carbon Tetrachloride	7.21	117	128813	0.36	ppbv	92
36) Benzene	7.08	78	180399	0.35	ppbv	95
37) 1,2-Dichloroethane	6.48	62	114508	0.38	ppbv	100
38) Trichloroethene	8.04	130	77884	0.45	ppbv	87
39) 1,2-Dichloropropane	7.81	63	96991	0.46	ppbv	91
40) 1,4-Dioxane	8.08	88	31580m	0.51	ppbv	
41) Tetrahydrofuran	6.24	42	68025	0.33	ppbv	97
42) Bromodichloromethane	7.99	83	174227	0.44	ppbv	94
43) Methyl Methacrylate	8.22	69	75584m	0.36	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.07	57	396227	0.43	ppbv	95
45) t-1,3-Dichloropropene	9.49	75	80911	0.32	ppbv	93
46) cis-1,3-Dichloropropene	8.92	75	106892	0.34	ppbv #	87
47) 1,1,2-Trichloroethane	9.69	97	97583m	0.44	ppbv	
48) Dibromochloromethane	10.54	129	131425m	0.40	ppbv	
49) Bromoform	13.29	173	104381	0.37	ppbv	97
50) 4-Methyl-2-Pentanone	8.97	43	221681	0.37	ppbv	95
51) 2-Hexanone	10.38	43	150511m	0.32	ppbv	
52) Tetrachloroethene	11.45	164	65189	0.37	ppbv	92
53) Toluene	10.03	91	197163	0.32	ppbv	99
54) 1,2-Dibromoethane	10.84	107	128922	0.39	ppbv	87
56) 1,1,1,2-Tetrachloroethane	12.36	131	109668m	0.48	ppbv	
57) Chlorobenzene	12.39	112	213493	0.51	ppbv	94
58) Ethyl Benzene	12.95	91	266769	0.38	ppbv	99
59) m/p-Xylene	13.23	91	496988m	0.81	ppbv	
60) o-Xylene	13.94	91	245587	0.40	ppbv	99
61) Styrene	13.77	104	145732	0.33	ppbv	96
62) Isopropylbenzene	14.91	105	352705	0.41	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.92	83	228984	0.44	ppbv	96
64) n-propylbenzene	15.81	120	90494m	0.41	ppbv	
65) tert-Butylbenzene	17.00	119	298826m	0.41	ppbv	
66) Benzyl Chloride	17.24	91	148850m	0.36	ppbv	
67) sec-Butylbenzene	17.54	105	450502	0.41	ppbv	99
69) p-Isopropyltoluene	17.90	119	325418	0.38	ppbv	96
70) n-Butylbenzene	18.80	91	395875	0.42	ppbv	95
71) 2-Chlorotoluene	15.70	91	268553m	0.39	ppbv	
72) 4-Ethyltoluene	16.08	105	248938	0.36	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.25	105	260615m	0.38	ppbv	
74) 1,2,4-Trimethylbenzene	17.01	105	303347	0.43	ppbv	97
75) 1,3-Dichlorobenzene	17.26	146	192798m	0.48	ppbv	
76) 1,4-Dichlorobenzene	17.39	146	169786	0.43	ppbv	96
77) 1,2-Dichlorobenzene	18.08	146	177561	0.46	ppbv	99
78) Hexachloro-1,3-Butadiene	23.62	225	70876m	0.56	ppbv	
79) Naphthalene	22.52	128	210100m	0.35	ppbv	
80) Naphthalene, 2-methyl-	25.18	142	49194	0.19	ppbv	96
81) 1,2,4-Trichlorobenzene	22.24	180	112691m	0.38	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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