

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071218\
 Data File : VL032234.D
 Acq On : 12 Jul 2018 22:10
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 5:22:16 PM

Quant Time: Jul 13 04:21:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 2018
 QLast Update : Fri Jul 13 03:36:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1760962	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	4140207	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.34	117	5240156	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.68	95	3887764	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	2293015	9.61	ppbv	99
3) Chlorodifluoromethane	3.06	51	2768277	12.52	ppbv	100
4) Chloromethane	3.23	50	1548419	12.95	ppbv	99
5) Vinyl Chloride	3.34	62	1462255	12.28	ppbv	98
6) Bromomethane	3.57	94	835894	12.30	ppbv	99
7) Chloroethane	3.66	64	537746	12.70	ppbv	95
8) Dichlorotetrafluoroethane	3.27	85	2983848	11.22	ppbv	98
9) Propene	3.09	41	1261122	12.45	ppbv	100
10) Heptane	8.34	43	3760726	12.90	ppbv	99
11) Trichlorofluoromethane	4.07	101	3098740	12.44	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.62	101	1967163	11.92	ppbv	100
13) Ethanol	3.71	45	270995	8.98	ppbv	96
14) Bromoethene	3.85	108	946889	12.10	ppbv	98
15) Acetone	3.96	43	2536802	12.39	ppbv	100
16) 1,3-Butadiene	3.42	39	1298012	12.74	ppbv	99
17) tert-Butyl alcohol	4.42	59	1317788	10.53	ppbv	100
18) 1,1-Dichloroethene	4.42	96	979897	12.51	ppbv	98
19) Isopropyl Alcohol	4.09	45	1794674	10.85	ppbv	100
20) Methylene Chloride	4.48	84	895619	12.04	ppbv	98
21) Allyl Chloride	4.55	41	1756994	12.77	ppbv	99
22) trans-1,2-Dichloroethene	5.04	96	1037794	12.56	ppbv	99
23) Vinyl Acetate	5.23	43	5156899	13.84	ppbv	99
24) 1,1-Dichloroethane	5.17	63	3311091	13.74	ppbv	98
25) Ethyl Acetate	5.85	43	5625087	13.23	ppbv	100
26) Hexane	5.86	57	2523338	12.85	ppbv	98
27) Carbon Disulfide	4.69	76	2518933	13.18	ppbv	99
28) Methyl tert-Butyl Ether	5.19	73	4228266	12.37	ppbv	99
29) Chloroform	5.93	83	3820931	13.36	ppbv	100
30) Cyclohexane	7.34	84	2325067	12.39	ppbv	99
31) cis-1,2-Dichloroethene	5.72	61	2758219	13.99	ppbv	100
32) 1,1,1-Trichloroethane	6.71	97	3894167	12.80	ppbv	99
34) 2-Butanone	5.41	43	4141363	15.78	ppbv	99
35) Carbon Tetrachloride	7.22	117	3833838	13.38	ppbv	99
36) Benzene	7.10	78	5529878	13.58	ppbv	99
37) 1,2-Dichloroethane	6.50	62	3063925	15.03	ppbv	99
38) Trichloroethene	8.05	130	1806270	11.73	ppbv	99
39) 1,2-Dichloropropane	7.83	63	2299571	14.46	ppbv	98
40) 1,4-Dioxane	8.05	88	664041	11.15	ppbv #	26
41) Tetrahydrofuran	6.23	42	2412617	15.23	ppbv	99
42) Bromodichloromethane	8.01	83	4386151	14.13	ppbv	99
43) Methyl Methacrylate	8.23	69	2410861	14.62	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	9342249	13.41	ppbv	99
45) t-1,3-Dichloropropene	9.51	75	3108939	15.08	ppbv	99
46) cis-1,3-Dichloropropene	8.93	75	4246781	17.10	ppbv	99
47) 1,1,2-Trichloroethane	9.71	97	2565068	15.61	ppbv	98
48) Dibromochloromethane	10.55	129	4195034	16.58	ppbv	100
49) Bromoform	13.31	173	3317159	15.74	ppbv	100
50) 4-Methyl-2-Pentanone	8.96	43	7331947	16.77	ppbv	100
51) 2-Hexanone	10.36	43	6328722	17.46	ppbv #	100
52) Tetrachloroethene	11.48	164	1942169	13.40	ppbv	97
53) Toluene	10.04	91	7386820	15.38	ppbv	100
54) 1,2-Dibromoethane	10.86	107	3984387	16.18	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.38	131	2759623	11.82	ppbv	89
57) Chlorobenzene	12.40	112	5234871	11.59	ppbv	98
58) Ethyl Benzene	12.96	91	9932694	11.79	ppbv	99
59) m/p-Xylene	13.25	91	15702920m	23.22	ppbv	
60) o-Xylene	13.95	91	7549169	11.22	ppbv	99
61) Styrene	13.79	104	6431414	11.80	ppbv	100
62) Isopropylbenzene	14.93	105	10622673	10.35	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.94	83	5569045	10.61	ppbv	100
64) n-propylbenzene	15.83	120	2828970	10.63	ppbv	96
65) tert-Butylbenzene	17.01	119	8529142	9.47	ppbv	100
66) Benzyl Chloride	17.26	91	5915752	10.85	ppbv	100
67) sec-Butylbenzene	17.56	105	12830291	9.71	ppbv	99
69) p-Isopropyltoluene	17.92	119	10333905	9.79	ppbv	99
70) n-Butylbenzene	18.81	91	11491146	10.33	ppbv	99
71) 2-Chlorotoluene	15.72	91	8714066	10.92	ppbv	100
72) 4-Ethyltoluene	16.10	105	9169641	10.61	ppbv	100
73) 1,3,5-Trimethylbenzene	16.26	105	8676872	10.66	ppbv	99
74) 1,2,4-Trimethylbenzene	17.03	105	8221332	10.00	ppbv	96
75) 1,3-Dichlorobenzene	17.27	146	4618848	9.93	ppbv	100
76) 1,4-Dichlorobenzene	17.41	146	4855775	10.33	ppbv	99
77) 1,2-Dichlorobenzene	18.09	146	4738888	10.23	ppbv	100
78) Hexachloro-1,3-Butadiene	23.64	225	1458416	9.22	ppbv	99
79) Naphthalene	22.53	128	8983298	12.23	ppbv	98
80) Naphthalene, 2-methyl-	25.19	142	4679788	18.02	ppbv	99
81) 1,2,4-Trichlorobenzene	22.25	180	3943714	11.94	ppbv	100

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

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