

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111418\
 Data File : VL032744.D
 Acq On : 14 Nov 2018 3:45
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:29:43 PM

Quant Time: Nov 14 05:55:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 05:55:47 2018
 QLast Update : Wed Nov 14 05:38:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1644957	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	4173497	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3890340	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2867373	9.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	256206	1.366	ppbv	99
3) Chlorodifluoromethane	3.02	51	142004	1.091	ppbv	99
4) Chloromethane	3.18	50	76750	1.061	ppbv	90
5) Vinyl Chloride	3.30	62	77605	0.992	ppbv	96
6) Bromomethane	3.52	94	48973	0.996	ppbv	96
7) Chloroethane	3.61	64	29612	1.024	ppbv #	87
8) Dichlorotetrafluoroethane	3.23	85	206413	1.152	ppbv	99
9) Propene	3.04	41	54216	1.024	ppbv	98
10) Heptane	8.26	43	198493	0.966	ppbv	99
11) Trichlorofluoromethane	4.01	101	266832	1.198	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	195680	1.087	ppbv	97
13) Ethanol	3.66	45	20791m	1.390	ppbv	
14) Bromoethene	3.80	108	64741	1.046	ppbv	99
15) Acetone	3.92	43	201435	1.317	ppbv	100
16) 1,3-Butadiene	3.37	39	61814	1.066	ppbv	92
17) tert-Butyl alcohol	4.38	59	50215	1.162	ppbv	99
18) 1,1-Dichloroethene	4.36	96	96659	1.191	ppbv	95
19) Isopropyl Alcohol	4.05	45	120205	1.128	ppbv #	95
20) Methylene Chloride	4.42	84	77618	0.998	ppbv	96
21) Allyl Chloride	4.49	41	127502	1.042	ppbv	97
22) trans-1,2-Dichloroethene	4.98	96	88741	1.063	ppbv	79
23) Vinyl Acetate	5.16	43	286135	1.037	ppbv	98
24) 1,1-Dichloroethane	5.10	63	236269	1.089	ppbv	99
25) Ethyl Acetate	5.78	43	370317	1.058	ppbv	100
26) Hexane	5.79	57	160605	0.975	ppbv	90
27) Carbon Disulfide	4.63	76	221760	1.122	ppbv	94
28) Methyl tert-Butyl Ether	5.13	73	265598	1.087	ppbv	98
29) Chloroform	5.86	83	293490	1.101	ppbv	98
30) Cyclohexane	7.25	84	140274m	1.061	ppbv	
31) cis-1,2-Dichloroethene	5.65	61	150833	0.980	ppbv	96
32) 1,1,1-Trichloroethane	6.62	97	304986	1.116	ppbv	98
34) 2-Butanone	5.35	43	221609	0.989	ppbv	98
35) Carbon Tetrachloride	7.14	117	328064	1.097	ppbv	94
36) Benzene	7.01	78	351568	1.043	ppbv	99
37) 1,2-Dichloroethane	6.42	62	232150	1.108	ppbv #	96
38) Trichloroethene	7.97	130	133659	1.058	ppbv	97
39) 1,2-Dichloropropane	7.74	63	130595m	1.003	ppbv	
40) 1,4-Dioxane	7.99	88	44091m	0.996	ppbv	
41) Tetrahydrofuran	6.17	42	123564	0.997	ppbv	99
42) Bromodichloromethane	7.92	83	316209	1.080	ppbv	96
43) Methyl Methacrylate	8.15	69	117548	0.949	ppbv	95

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44) 2,2,4-Trimethylpentane	7.99	57	587607	1.020	ppbv	98
45) t-1,3-Dichloropropene	9.42	75	142857	0.861	ppbv #	87
46) cis-1,3-Dichloropropene	8.84	75	185021	0.960	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	146841	0.955	ppbv	95
48) Dibromochloromethane	10.46	129	247095	0.954	ppbv	96
49) Bromoform	13.21	173	204318	1.004	ppbv	99
50) 4-Methyl-2-Pentanone	8.89	43	345232	1.030	ppbv	99
51) 2-Hexanone	10.30	43	209816	0.870	ppbv #	94
52) Tetrachloroethene	11.38	164	118778	1.005	ppbv	96
53) Toluene	9.96	91	329481	0.864	ppbv	97
54) 1,2-Dibromoethane	10.77	107	206436	0.998	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	197815m	1.145	ppbv	
57) Chlorobenzene	12.31	112	313035	1.082	ppbv	95
58) Ethyl Benzene	12.88	91	468246	1.025	ppbv	99
59) m/p-Xylene	13.16	91	875515m	2.154	ppbv	
60) o-Xylene	13.86	91	461059	1.168	ppbv	99
61) Styrene	13.69	104	281206	1.065	ppbv	99
62) Isopropylbenzene	14.84	105	611952	1.098	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	332762	1.084	ppbv	98
64) n-propylbenzene	15.73	120	161463	1.156	ppbv	95
65) tert-Butylbenzene	16.92	119	557597	1.160	ppbv	96
66) Benzyl Chloride	17.16	91	256298	1.021	ppbv	99
67) sec-Butylbenzene	17.47	105	793748	1.163	ppbv	99
69) p-Isopropyltoluene	17.82	119	612831	1.131	ppbv	98
70) n-Butylbenzene	18.72	91	619929	1.115	ppbv	99
71) 2-Chlorotoluene	15.63	91	437580	1.093	ppbv	97
72) 4-Ethyltoluene	16.01	105	475048	1.118	ppbv	98
73) 1,3,5-Trimethylbenzene	16.16	105	486222	1.174	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	535017	1.211	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	291138	1.144	ppbv	94
76) 1,4-Dichlorobenzene	17.31	146	269378m	1.145	ppbv	
77) 1,2-Dichlorobenzene	18.00	146	265705	1.107	ppbv	98
78) Hexachloro-1,3-Butadiene	23.55	225	145613	1.197	ppbv	98
79) Naphthalene	22.42	128	303595	1.093	ppbv	97
80) Naphthalene, 2-methyl-	25.13	142	44934	0.676	ppbv	95
81) 1,2,4-Trichlorobenzene	22.15	180	155034m	1.091	ppbv	

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

