

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071218\
 Data File : VL032229.D
 Acq On : 12 Jul 2018 18:44
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 5:22:09 PM

Quant Time: Jul 13 03:52:32 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	5.84	49	1887912	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	4594976	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.34	117	4961644	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	3767236	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	642622	2.51	ppbv	100
3) Chlorodifluoromethane	3.07	51	433575	1.83	ppbv	97
4) Chloromethane	3.22	50	251777	1.96	ppbv	97
5) Vinyl Chloride	3.35	62	241912	1.90	ppbv	97
6) Bromomethane	3.58	94	143594	1.97	ppbv	95
7) Chloroethane	3.66	64	88545	1.95	ppbv	97
8) Dichlorotetrafluoroethane	3.27	85	539918	1.89	ppbv	99
9) Propene	3.09	41	182497	1.68	ppbv	100
10) Heptane	8.33	43	637787	2.04	ppbv	100
11) Trichlorofluoromethane	4.07	101	530567	1.99	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.62	101	345264	1.95	ppbv	99
13) Ethanol	3.71	45	58382m	1.80	ppbv	
14) Bromoethene	3.85	108	162458	1.94	ppbv	99
15) Acetone	3.97	43	472172	2.15	ppbv	99
16) 1,3-Butadiene	3.42	39	221011	2.02	ppbv	98
17) tert-Butyl alcohol	4.43	59	197903	1.47	ppbv	100
18) 1,1-Dichloroethene	4.42	96	160153	1.91	ppbv	90
19) Isopropyl Alcohol	4.09	45	263366	1.49	ppbv #	96
20) Methylene Chloride	4.48	84	151481	1.90	ppbv	96
21) Allyl Chloride	4.55	41	265861	1.80	ppbv	99
22) trans-1,2-Dichloroethene	5.04	96	158723	1.79	ppbv	95
23) Vinyl Acetate	5.23	43	770994	1.93	ppbv #	98
24) 1,1-Dichloroethane	5.16	63	546456	2.11	ppbv	98
25) Ethyl Acetate	5.85	43	928152	2.04	ppbv	100
26) Hexane	5.86	57	432362	2.05	ppbv	98
27) Carbon Disulfide	4.69	76	349193	1.70	ppbv	97
28) Methyl tert-Butyl Ether	5.19	73	670835	1.83	ppbv	100
29) Chloroform	5.92	83	643333	2.10	ppbv	100
30) Cyclohexane	7.33	84	394447	1.96	ppbv	87
31) cis-1,2-Dichloroethene	5.72	61	419575	1.99	ppbv	97
32) 1,1,1-Trichloroethane	6.70	97	694050	2.13	ppbv	99
34) 2-Butanone	5.41	43	637781	2.19	ppbv	99
35) Carbon Tetrachloride	7.22	117	693161	2.18	ppbv	98
36) Benzene	7.09	78	1000724	2.21	ppbv	99
37) 1,2-Dichloroethane	6.49	62	503259	2.22	ppbv	99
38) Trichloroethene	8.05	130	337782	1.98	ppbv	97
39) 1,2-Dichloropropane	7.82	63	388742	2.20	ppbv	92
40) 1,4-Dioxane	8.06	88	125539	1.90	ppbv #	95
41) Tetrahydrofuran	6.24	42	352872	2.01	ppbv	99
42) Bromodichloromethane	8.01	83	775986	2.25	ppbv	97
43) Methyl Methacrylate	8.22	69	387348	2.12	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	1764805	2.28	ppbv	99
45) t-1,3-Dichloropropene	9.51	75	429340	1.88	ppbv	96
46) cis-1,3-Dichloropropene	8.93	75	586102	2.13	ppbv	99
47) 1,1,2-Trichloroethane	9.71	97	412617	2.26	ppbv	98
48) Dibromochloromethane	10.54	129	622480	2.22	ppbv	100
49) Bromoform	13.30	173	509218	2.18	ppbv	99
50) 4-Methyl-2-Pentanone	8.96	43	1122629	2.31	ppbv	99
51) 2-Hexanone	10.37	43	957785	2.38	ppbv #	99
52) Tetrachloroethene	11.47	164	323045	2.01	ppbv	93
53) Toluene	10.04	91	1129452	2.12	ppbv	98
54) 1,2-Dibromoethane	10.85	107	597522	2.19	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.37	131	473206	2.14	ppbv #	1
57) Chlorobenzene	12.39	112	903742	2.11	ppbv	98
58) Ethyl Benzene	12.96	91	1621365	2.03	ppbv	95
59) m/p-Xylene	13.24	91	2633744m	4.11	ppbv	
60) o-Xylene	13.94	91	1305664	2.05	ppbv	98
61) Styrene	13.78	104	983698	1.91	ppbv	99
62) Isopropylbenzene	14.92	105	1823789	1.88	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.93	83	1045264m	2.10	ppbv	
64) n-propylbenzene	15.82	120	456754	1.81	ppbv	87
65) tert-Butylbenzene	17.00	119	1581149	1.85	ppbv	99
66) Benzyl Chloride	17.25	91	779968	1.51	ppbv	99
67) sec-Butylbenzene	17.55	105	2330702	1.86	ppbv	99
69) p-Isopropyltoluene	17.91	119	1768057	1.77	ppbv	99
70) n-Butylbenzene	18.81	91	1951720	1.85	ppbv	99
71) 2-Chlorotoluene	15.71	91	1445346	1.91	ppbv	100
72) 4-Ethyltoluene	16.09	105	1458893	1.78	ppbv	99
73) 1,3,5-Trimethylbenzene	16.25	105	1344054	1.74	ppbv	99
74) 1,2,4-Trimethylbenzene	17.02	105	1372859	1.76	ppbv #	87
75) 1,3-Dichlorobenzene	17.26	146	826731	1.88	ppbv	99
76) 1,4-Dichlorobenzene	17.40	146	814893m	1.83	ppbv	
77) 1,2-Dichlorobenzene	18.09	146	825556	1.88	ppbv	98
78) Hexachloro-1,3-Butadiene	23.63	225	267438	1.79	ppbv	99
79) Naphthalene	22.52	128	724428	1.04	ppbv	98
80) Naphthalene, 2-methyl-	25.19	142	48964	0.20	ppbv	96
81) 1,2,4-Trichlorobenzene	22.25	180	395965	1.27	ppbv	98

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

