

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070219\
 Data File : VL033996.D
 Acq On : 2 Jul 2019 21:56
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL070219

Manual Integrations
 APPROVED

MMDadoda
 7/3/2019 11:03:35 PM

Quant Time: Jul 02 22:24:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 2019
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	1134952	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2889765	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.21	117	3032097	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.54	95	2332167	9.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	1921194	8.203	ppbv	99
3) Chlorodifluoromethane	3.00	51	1269949	9.061	ppbv	99
4) Chloromethane	3.15	50	709974	8.810	ppbv	94
5) Vinyl Chloride	3.28	62	770326	8.501	ppbv	100
6) Bromomethane	3.50	94	486293	9.100	ppbv	95
7) Chloroethane	3.58	64	298660	9.222	ppbv	99
8) Dichlorotetrafluoroethane	3.20	85	1967936	8.618	ppbv	100
9) Propene	3.02	41	495410	9.609	ppbv	98
10) Heptane	8.22	43	1401196	10.854	ppbv	99
11) Trichlorofluoromethane	3.99	101	2086247	7.921	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.53	101	1593828	8.550	ppbv	99
13) Ethanol	3.63	45	132824	8.293	ppbv	98
14) Bromoethene	3.77	108	651323	9.356	ppbv	99
15) Acetone	3.88	43	1410652	7.393	ppbv	97
16) 1,3-Butadiene	3.35	39	642960	9.542	ppbv	98
17) tert-Butyl alcohol	4.34	59	1494731	9.825	ppbv	99
18) 1,1-Dichloroethene	4.33	96	744417	8.966	ppbv	97
19) Isopropyl Alcohol	4.00	45	1109975	8.666	ppbv	99
20) Methylene Chloride	4.39	84	652793	7.844	ppbv	95
21) Allyl Chloride	4.46	41	1115653	9.377	ppbv	99
22) trans-1,2-Dichloroethene	4.94	96	771027	9.746	ppbv	98
23) Vinyl Acetate	5.13	43	2039378	10.708	ppbv	98
24) 1,1-Dichloroethane	5.07	63	1609631	9.536	ppbv	99
25) Ethyl Acetate	5.74	43	2624363	10.055	ppbv	100
26) Hexane	5.75	57	1223022	10.240	ppbv	97
27) Carbon Disulfide	4.60	76	1933138	9.521	ppbv	100
28) Methyl tert-Butyl Ether	5.09	73	2135352	10.557	ppbv	99
29) Chloroform	5.83	83	2076340	9.251	ppbv	98
30) Cyclohexane	7.22	84	1029600	11.163	ppbv	96
31) cis-1,2-Dichloroethene	5.62	61	1223678	10.605	ppbv	98
32) 1,1,1-Trichloroethane	6.60	97	2038375	8.960	ppbv	99
34) 2-Butanone	5.31	43	1590806	10.402	ppbv	100
35) Carbon Tetrachloride	7.11	117	2167997	9.477	ppbv	100
36) Benzene	6.98	78	2423017	10.716	ppbv	97
37) 1,2-Dichloroethane	6.39	62	1608927	9.659	ppbv	99
38) Trichloroethene	7.93	130	1066754	10.603	ppbv	95
39) 1,2-Dichloropropane	7.71	63	896706	10.665	ppbv	97
40) 1,4-Dioxane	7.93	88	427090m	11.002	ppbv	
41) Tetrahydrofuran	6.12	42	857272	11.430	ppbv	99
42) Bromodichloromethane	7.89	83	2263986	10.129	ppbv	100
43) Methyl Methacrylate	8.11	69	1000773	11.665	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.97	57	4140004	10.607	ppbv	99
45) t-1,3-Dichloropropene	9.39	75	1359123	12.115	ppbv	95
46) cis-1,3-Dichloropropene	8.80	75	1474680	11.350	ppbv	96
47) 1,1,2-Trichloroethane	9.59	97	1081475	10.230	ppbv	98
48) Dibromochloromethane	10.42	129	1953507	9.684	ppbv	100
49) Bromoform	13.17	173	1876560	10.889	ppbv	100
50) 4-Methyl-2-Pentanone	8.84	43	2338840	10.306	ppbv	99
51) 2-Hexanone	10.24	43	1983019	10.835	ppbv #	99
52) Tetrachloroethene	11.34	164	1018125	10.462	ppbv	99
53) Toluene	9.92	91	2993381	11.565	ppbv	99
54) 1,2-Dibromoethane	10.73	107	1659236	10.635	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.25	131	1300990	9.600	ppbv	98
57) Chlorobenzene	12.27	112	2334545	9.671	ppbv	97
58) Ethyl Benzene	12.83	91	4101332	11.248	ppbv	100
59) m/p-Xylene	13.12	91	7041869m	21.329	ppbv	
60) o-Xylene	13.82	91	3409815	10.324	ppbv	99
61) Styrene	13.65	104	2608251	11.933	ppbv	99
62) Isopropylbenzene	14.79	105	4473403	8.811	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.81	83	2379830	9.309	ppbv	98
64) n-propylbenzene	15.69	120	1152795	8.756	ppbv	98
65) tert-Butylbenzene	16.88	119	3961829	9.176	ppbv	99
66) Benzyl Chloride	17.13	91	2250303	10.187	ppbv	100
67) sec-Butylbenzene	17.43	105	5625625	9.283	ppbv	100
69) p-Isopropyltoluene	17.79	119	4647382	9.301	ppbv	99
70) n-Butylbenzene	18.68	91	4768635	9.085	ppbv	99
71) 2-Chlorotoluene	15.59	91	3371395	9.073	ppbv	100
72) 4-Ethyltoluene	15.97	105	3945546	9.302	ppbv	98
73) 1,3,5-Trimethylbenzene	16.13	105	3733627	9.461	ppbv	100
74) 1,2,4-Trimethylbenzene	16.89	105	3899523	8.921	ppbv	98
75) 1,3-Dichlorobenzene	17.14	146	2330044	8.392	ppbv	100
76) 1,4-Dichlorobenzene	17.27	146	2330121	8.910	ppbv	98
77) 1,2-Dichlorobenzene	17.96	146	2208902	8.591	ppbv	100
78) Hexachloro-1,3-Butadiene	23.51	225	1668259	7.626	ppbv	98
79) Naphthalene	22.37	128	3591418	9.773	ppbv	97
80) Naphthalene, 2-methyl-	25.08	142	1200622	8.978	ppbv	99
81) 1,2,4-Trichlorobenzene	22.09	180	2157498	9.141	ppbv	100

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

