

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050620\
 Data File : VL034937.D
 Acq On : 6 May 2020 10:48
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 5/7/2020 2:29:29 PM

Quant Time: May 06 12:46:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 12:36:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1222148	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2810612	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2718729	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2147129	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	331121	1.979 ppbv	97
3) Chlorodifluoromethane	2.95	51	302915	2.219 ppbv	100
4) Chloromethane	3.10	50	173931	2.254 ppbv	96
5) Vinyl Chloride	3.22	62	168080	2.266 ppbv	100
6) Bromomethane	3.45	94	101167	2.343 ppbv	98
7) Chloroethane	3.53	64	60170	2.246 ppbv	94
8) Dichlorotetrafluoroethane	3.15	85	391360	2.252 ppbv	99
9) Propene	2.97	41	131043	2.010 ppbv	98
10) Heptane	8.14	43	334814	2.087 ppbv	100
11) Trichlorofluoromethane	3.92	101	391226	2.197 ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.47	101	281221	2.257 ppbv	100
13) Ethanol	3.58	45	45359	2.289 ppbv	86
14) Bromoethene	3.71	108	112314	2.087 ppbv	95
15) Acetone	3.83	43	366184	2.312 ppbv	99
16) 1,3-Butadiene	3.29	39	156214	2.181 ppbv	96
17) tert-Butyl alcohol	4.27	59	313459	2.054 ppbv	99
18) 1,1-Dichloroethene	4.27	96	120563	2.185 ppbv	90
19) Isopropyl Alcohol	3.94	45	238811	2.387 ppbv #	98
20) Methylene Chloride	4.32	84	115208	2.300 ppbv #	86
21) Allyl Chloride	4.39	41	202529	1.991 ppbv	96
22) trans-1,2-Dichloroethene	4.87	96	127170	2.271 ppbv	90
23) Vinyl Acetate	5.06	43	483795	2.068 ppbv	97
24) 1,1-Dichloroethane	5.00	63	340077	2.168 ppbv	99
25) Ethyl Acetate	5.67	43	597735	2.118 ppbv	99
26) Hexane	5.68	57	256679	2.112 ppbv	96
27) Carbon Disulfide	4.53	76	303517	2.201 ppbv	100
28) Methyl tert-Butyl Ether	5.02	73	398025	1.969 ppbv	100
29) Chloroform	5.75	83	418453	2.257 ppbv	95
30) Cyclohexane	7.13	84	200614	1.979 ppbv #	83
31) cis-1,2-Dichloroethene	5.54	61	251476	2.024 ppbv	97
32) 1,1,1-Trichloroethane	6.52	97	378954	2.098 ppbv	99
34) 2-Butanone	5.23	43	391435	2.096 ppbv	98
35) Carbon Tetrachloride	7.03	117	392173	2.243 ppbv	92
36) Benzene	6.90	78	526286	2.101 ppbv	98
37) 1,2-Dichloroethane	6.31	62	307795	2.179 ppbv	100
38) Trichloroethene	7.85	130	194097	2.040 ppbv	94
39) 1,2-Dichloropropane	7.62	63	200394	2.019 ppbv	98
40) 1,4-Dioxane	7.86	88	83302m	2.222 ppbv	
41) Tetrahydrofuran	6.05	42	207244	2.051 ppbv	98
42) Bromodichloromethane	7.81	83	419882	2.181 ppbv	96
43) Methyl Methacrylate	8.03	69	214897	2.036 ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	934260	2.207	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	213798	1.724	ppbv	99
46) cis-1,3-Dichloropropene	8.72	75	269297	1.828	ppbv	98
47) 1,1,2-Trichloroethane	9.50	97	214674	2.107	ppbv	92
48) Dibromochloromethane	10.33	129	334359	2.027	ppbv	99
49) Bromoform	13.08	173	287639	1.956	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	558687	2.078	ppbv	98
51) 2-Hexanone	10.16	43	431172	1.973	ppbv #	100
52) Tetrachloroethene	11.25	164	182697	1.843	ppbv	95
53) Toluene	9.83	91	566277	1.957	ppbv	99
54) 1,2-Dibromoethane	10.64	107	319154m	2.081	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.16	131	267507	2.190	ppbv #	1
57) Chlorobenzene	12.18	112	470623	2.212	ppbv #	96
58) Ethyl Benzene	12.75	91	776540	2.109	ppbv	98
59) m/p-Xylene	13.03	91	1353762m	4.389	ppbv	
60) o-Xylene	13.73	91	679504	2.256	ppbv	97
61) Styrene	13.56	104	434286	2.055	ppbv	99
62) Isopropylbenzene	14.70	105	977723	2.147	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.72	83	491927	2.406	ppbv	99
64) n-propylbenzene	15.61	120	256041m	2.160	ppbv	
65) tert-Butylbenzene	16.78	119	903840	2.270	ppbv	99
66) Benzyl Chloride	17.03	91	285850m	1.722	ppbv	
67) sec-Butylbenzene	17.34	105	1278952	2.317	ppbv	97
69) p-Isopropyltoluene	17.69	119	1045084	2.258	ppbv	99
70) n-Butylbenzene	18.60	91	1118091	2.368	ppbv	97
71) 2-Chlorotoluene	15.50	91	758782	2.200	ppbv	99
72) 4-Ethyltoluene	15.88	105	761698	2.142	ppbv	99
73) 1,3,5-Trimethylbenzene	16.04	105	742681	2.231	ppbv	98
74) 1,2,4-Trimethylbenzene	16.81	105	815438	2.377	ppbv	94
75) 1,3-Dichlorobenzene	17.04	146	455259	2.201	ppbv	99
76) 1,4-Dichlorobenzene	17.19	146	431333	2.090	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	432241	2.156	ppbv	98
78) Hexachloro-1,3-Butadiene	23.43	225	371440m	2.218	ppbv	
79) Naphthalene	22.27	128	596414	2.230	ppbv	98
80) Naphthalene, 2-methyl-	25.03	142	56363	0.806	ppbv	96
81) 1,2,4-Trichlorobenzene	22.00	180	377501m	2.221	ppbv	

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

