

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080520\
 Data File : VL035335.D
 Acq On : 5 Aug 2020 9:58
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 8/6/2020 12:48:53 PM

Quant Time: Aug 05 10:48:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 05
 QLast Update : Wed Aug 05 09:32:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1379921	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3569446	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	3305521	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2785066	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	202409	1.121 ppbv	98
3) Chlorodifluoromethane	2.94	51	175323	1.106 ppbv	97
4) Chloromethane	3.10	50	95265	1.052 ppbv	94
5) Vinyl Chloride	3.21	62	96402	1.093 ppbv	93
6) Bromomethane	3.43	94	61227	1.056 ppbv	83
7) Chloroethane	3.52	64	36311	1.036 ppbv #	77
8) Dichlorotetrafluoroethane	3.14	85	243597	1.119 ppbv	98
9) Propene	2.96	41	56605	0.988 ppbv	94
10) Heptane	8.12	43	141568	0.963 ppbv	96
11) Trichlorofluoromethane	3.92	101	265388	1.125 ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.46	101	191600	1.166 ppbv	95
13) Ethanol	3.57	45	23488m	1.110 ppbv	
14) Bromoethene	3.70	108	73054	1.079 ppbv	97
15) Acetone	3.82	43	226200	1.134 ppbv	92
16) 1,3-Butadiene	3.28	39	79184	1.064 ppbv	100
17) tert-Butyl alcohol	4.26	59	192887	1.061 ppbv	100
18) 1,1-Dichloroethene	4.26	96	77091	1.042 ppbv #	74
19) Isopropyl Alcohol	3.93	45	142438	1.136 ppbv #	92
20) Methylene Chloride	4.31	84	100941	1.108 ppbv #	83
21) Allyl Chloride	4.38	41	115008	1.018 ppbv	97
22) trans-1,2-Dichloroethene	4.86	96	78195	1.065 ppbv	88
23) Vinyl Acetate	5.05	43	182698	0.924 ppbv #	95
24) 1,1-Dichloroethane	4.99	63	192530	1.046 ppbv	100
25) Ethyl Acetate	5.66	43	318437	1.056 ppbv	100
26) Hexane	5.67	57	129116	0.956 ppbv	86
27) Carbon Disulfide	4.52	76	192023	1.057 ppbv	96
28) Methyl tert-Butyl Ether	5.01	73	188674	0.930 ppbv	95
29) Chloroform	5.74	83	243017	1.064 ppbv	95
30) Cyclohexane	7.13	84	81962	0.809 ppbv #	88
31) cis-1,2-Dichloroethene	5.54	61	108616m	0.872 ppbv	
32) 1,1,1-Trichloroethane	6.50	97	232010	1.050 ppbv	99
34) 2-Butanone	5.23	43	178154	0.948 ppbv	100
35) Carbon Tetrachloride	7.01	117	231401	1.002 ppbv	93
36) Benzene	6.88	78	235247	0.899 ppbv	93
37) 1,2-Dichloroethane	6.29	62	167846	0.947 ppbv	98
38) Trichloroethene	7.84	130	104837m	1.090 ppbv	
39) 1,2-Dichloropropane	7.62	63	97545	0.946 ppbv	92
40) 1,4-Dioxane	7.85	88	45843m	1.023 ppbv	
41) Tetrahydrofuran	6.05	42	78278	0.844 ppbv	96
42) Bromodichloromethane	7.79	83	231855	0.959 ppbv #	92
43) Methyl Methacrylate	8.02	69	89798	0.821 ppbv	93

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44) 2,2,4-Trimethylpentane	7.87	57	441280m	0.984	ppbv	
45) t-1,3-Dichloropropene	9.29	75	84834	0.727	ppbv	99
46) cis-1,3-Dichloropropene	8.72	75	103974	0.744	ppbv	89
47) 1,1,2-Trichloroethane	9.49	97	120275m	1.005	ppbv	
48) Dibromochloromethane	10.32	129	186578	0.958	ppbv	99
49) Bromoform	13.07	173	168189	0.991	ppbv	100
50) 4-Methyl-2-Pentanone	8.75	43	260850	0.983	ppbv	99
51) 2-Hexanone	10.16	43	195985	0.954	ppbv #	93
52) Tetrachloroethene	11.24	164	91396m	0.991	ppbv	
53) Toluene	9.82	91	235191	0.855	ppbv	99
54) 1,2-Dibromoethane	10.63	107	167568	0.946	ppbv	91
56) 1,1,1,2-Tetrachloroethane	12.14	131	168965m	1.089	ppbv	
57) Chlorobenzene	12.17	112	266974	1.055	ppbv	97
58) Ethyl Benzene	12.73	91	333137	0.920	ppbv	96
59) m/p-Xylene	13.02	91	653291m	1.955	ppbv	
60) o-Xylene	13.72	91	318853	0.965	ppbv	97
61) Styrene	13.55	104	165808m	0.816	ppbv	
62) Isopropylbenzene	14.70	105	501048	1.005	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.71	83	287123	1.108	ppbv	99
64) n-propylbenzene	15.59	120	132148m	1.014	ppbv	
65) tert-Butylbenzene	16.78	119	456123	1.022	ppbv	96
66) Benzyl Chloride	17.03	91	166348m	0.964	ppbv	
67) sec-Butylbenzene	17.33	105	660186	1.046	ppbv	97
69) p-Isopropyltoluene	17.69	119	517691	0.992	ppbv	99
70) n-Butylbenzene	18.59	91	556648	0.991	ppbv	96
71) 2-Chlorotoluene	15.49	91	342451	0.921	ppbv	96
72) 4-Ethyltoluene	15.87	105	358976	0.963	ppbv	96
73) 1,3,5-Trimethylbenzene	16.03	105	349817	0.958	ppbv	99
74) 1,2,4-Trimethylbenzene	16.79	105	407528	0.973	ppbv	94
75) 1,3-Dichlorobenzene	17.03	146	276845	1.063	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	254407	1.032	ppbv	96
77) 1,2-Dichlorobenzene	17.85	146	251854m	1.049	ppbv	
78) Hexachloro-1,3-Butadiene	23.42	225	216275	1.109	ppbv	97
79) Naphthalene	22.26	128	253654m	0.766	ppbv	
80) Naphthalene, 2-methyl-	25.02	142	15813	0.163	ppbv #	86
81) 1,2,4-Trichlorobenzene	21.99	180	181982m	0.903	ppbv	

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

