

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070820\
 Data File : VL035170.D
 Acq On : 8 Jul 2020 3:56
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 7/9/2020 12:02:31 PM

Quant Time: Jul 08 06:45:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 08
 QLast Update : Wed Jul 08 06:17:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1271991	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3092648	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2862795	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	2337461	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	213264	1.238 ppbv	96
3) Chlorodifluoromethane	2.94	51	158481	1.138 ppbv	96
4) Chloromethane	3.10	50	85369	1.097 ppbv	90
5) Vinyl Chloride	3.21	62	81896	1.097 ppbv	96
6) Bromomethane	3.43	94	50128	1.074 ppbv	100
7) Chloroethane	3.52	64	32341	1.141 ppbv	91
8) Dichlorotetrafluoroethane	3.14	85	217786	1.181 ppbv	97
9) Propene	2.96	41	57609	1.051 ppbv	99
10) Heptane	8.13	43	134308	0.941 ppbv	99
11) Trichlorofluoromethane	3.92	101	220838	1.190 ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.45	101	153551	1.195 ppbv	99
13) Ethanol	3.57	45	21745	1.070 ppbv	98
14) Bromoethene	3.70	108	62145	1.129 ppbv	98
15) Acetone	3.82	43	199751	1.292 ppbv	95
16) 1,3-Butadiene	3.29	39	65295	0.974 ppbv	92
17) tert-Butyl alcohol	4.27	59	164563m	1.196 ppbv	
18) 1,1-Dichloroethene	4.25	96	66091	1.142 ppbv #	92
19) Isopropyl Alcohol	3.94	45	112357m	1.130 ppbv	
20) Methylene Chloride	4.31	84	90336	1.435 ppbv	94
21) Allyl Chloride	4.38	41	103074	1.125 ppbv	96
22) trans-1,2-Dichloroethene	4.86	96	66848	1.224 ppbv	98
23) Vinyl Acetate	5.05	43	205061	1.108 ppbv	98
24) 1,1-Dichloroethane	4.99	63	174071	1.109 ppbv	99
25) Ethyl Acetate	5.66	43	287991	1.043 ppbv	99
26) Hexane	5.67	57	124814	1.001 ppbv	95
27) Carbon Disulfide	4.53	76	174679	1.313 ppbv #	91
28) Methyl tert-Butyl Ether	5.02	73	189765	1.081 ppbv	98
29) Chloroform	5.74	83	215905	1.105 ppbv	98
30) Cyclohexane	7.13	84	80115	0.898 ppbv	92
31) cis-1,2-Dichloroethene	5.53	61	115781m	1.015 ppbv	
32) 1,1,1-Trichloroethane	6.50	97	197174	1.083 ppbv	97
34) 2-Butanone	5.23	43	173788	0.993 ppbv	98
35) Carbon Tetrachloride	7.02	117	195199m	1.049 ppbv	
36) Benzene	6.89	78	230668	0.974 ppbv	93
37) 1,2-Dichloroethane	6.29	62	159661	1.060 ppbv	100
38) Trichloroethene	7.83	130	88686	0.956 ppbv	91
39) 1,2-Dichloropropane	7.62	63	90969	0.985 ppbv	99
40) 1,4-Dioxane	7.86	88	37041m	0.991 ppbv	
41) Tetrahydrofuran	6.05	42	77542	0.870 ppbv	99
42) Bromodichloromethane	7.79	83	202709	1.035 ppbv	98
43) Methyl Methacrylate	8.02	69	91257m	0.910 ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	405866	0.981	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	88467	0.904	ppbv	93
46) cis-1,3-Dichloropropene	8.71	75	102566	0.845	ppbv	91
47) 1,1,2-Trichloroethane	9.49	97	99508	0.980	ppbv	88
48) Dibromochloromethane	10.32	129	159048	1.043	ppbv	99
49) Bromoform	13.07	173	137662m	1.059	ppbv	
50) 4-Methyl-2-Pentanone	8.75	43	244461	0.975	ppbv	96
51) 2-Hexanone	10.16	43	167801	0.858	ppbv #	96
52) Tetrachloroethene	11.25	164	78502	0.935	ppbv #	87
53) Toluene	9.82	91	229227	0.905	ppbv	98
54) 1,2-Dibromoethane	10.63	107	147412m	0.978	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.15	131	139424	1.176	ppbv #	1
57) Chlorobenzene	12.17	112	224597	1.063	ppbv #	94
58) Ethyl Benzene	12.73	91	324465	1.003	ppbv	90
59) m/p-Xylene	13.02	91	614397m	2.144	ppbv	
60) o-Xylene	13.72	91	294342	1.029	ppbv	99
61) Styrene	13.55	104	159717	0.887	ppbv	96
62) Isopropylbenzene	14.69	105	440737	1.032	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	236926	1.024	ppbv	98
64) n-propylbenzene	15.60	120	108075m	0.991	ppbv	
65) tert-Butylbenzene	16.78	119	398909	1.083	ppbv	97
66) Benzyl Chloride	17.03	91	122827	1.057	ppbv #	90
67) sec-Butylbenzene	17.33	105	601798	1.138	ppbv	99
69) p-Isopropyltoluene	17.68	119	440405	1.044	ppbv	97
70) n-Butylbenzene	18.58	91	487499	1.071	ppbv	96
71) 2-Chlorotoluene	15.49	91	321192	0.995	ppbv	98
72) 4-Ethyltoluene	15.87	105	328862m	1.029	ppbv	
73) 1,3,5-Trimethylbenzene	16.02	105	320389m	1.057	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	363783m	1.073	ppbv	
75) 1,3-Dichlorobenzene	17.03	146	232777	1.154	ppbv	97
76) 1,4-Dichlorobenzene	17.18	146	207378m	1.071	ppbv	
77) 1,2-Dichlorobenzene	17.85	146	209174m	1.126	ppbv	
78) Hexachloro-1,3-Butadiene	23.42	225	171798	1.051	ppbv	97
79) Naphthalene	22.26	128	185943m	0.644	ppbv	
80) Naphthalene, 2-methyl-	25.01	142	16099	0.153	ppbv #	89
81) 1,2,4-Trichlorobenzene	21.99	180	131048m	0.781	ppbv	

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

