

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022620\
 Data File : VL034678.D
 Acq On : 26 Feb 2020 3:46
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 2/27/2020 5:19:19 PM

Quant Time: Feb 26 04:32:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 26 2020
 QLast Update : Wed Feb 26 03:37:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1126776	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2345739	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2346943	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1927268	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	210024	1.206	ppbv	94
3) Chlorodifluoromethane	2.95	51	127807	0.937	ppbv	97
4) Chloromethane	3.11	50	71740	0.874	ppbv	99
5) Vinyl Chloride	3.22	62	69567	0.911	ppbv	98
6) Bromomethane	3.45	94	40218	1.009	ppbv	95
7) Chloroethane	3.53	64	24778m	0.882	ppbv	
8) Dichlorotetrafluoroethane	3.16	85	175401	1.002	ppbv	96
9) Propene	2.97	41	53303	0.965	ppbv	94
10) Heptane	8.13	43	135741	0.936	ppbv	98
11) Trichlorofluoromethane	3.92	101	169701	0.960	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.47	101	118070	0.969	ppbv	98
13) Ethanol	3.58	45	17014m	1.001	ppbv	
14) Bromoethene	3.71	108	48188	0.959	ppbv #	98
15) Acetone	3.83	43	141782	0.927	ppbv	97
16) 1,3-Butadiene	3.29	39	63742	0.980	ppbv	94
17) tert-Butyl alcohol	4.28	59	97204	0.836	ppbv	100
18) 1,1-Dichloroethene	4.27	96	53136	0.955	ppbv	88
19) Isopropyl Alcohol	3.96	45	69492m	0.661	ppbv	
20) Methylene Chloride	4.33	84	55408	0.989	ppbv #	75
21) Allyl Chloride	4.39	41	87199	0.936	ppbv	98
22) trans-1,2-Dichloroethene	4.87	96	49813	0.913	ppbv	93
23) Vinyl Acetate	5.06	43	172627	0.911	ppbv #	96
24) 1,1-Dichloroethane	5.00	63	147526	0.935	ppbv	100
25) Ethyl Acetate	5.67	43	238550	0.905	ppbv	99
26) Hexane	5.68	57	109907	0.939	ppbv	99
27) Carbon Disulfide	4.53	76	119827m	0.901	ppbv	
28) Methyl tert-Butyl Ether	5.03	73	161380	0.954	ppbv	96
29) Chloroform	5.74	83	175045	0.940	ppbv	89
30) Cyclohexane	7.14	84	81658	0.911	ppbv	92
31) cis-1,2-Dichloroethene	5.54	61	106353	0.937	ppbv	92
32) 1,1,1-Trichloroethane	6.51	97	155715	0.913	ppbv	96
34) 2-Butanone	5.24	43	149817	0.901	ppbv	99
35) Carbon Tetrachloride	7.02	117	159498	0.893	ppbv	91
36) Benzene	6.90	78	212117	0.960	ppbv #	93
37) 1,2-Dichloroethane	6.30	62	131524	0.909	ppbv	99
38) Trichloroethene	7.84	130	78864m	0.940	ppbv	
39) 1,2-Dichloropropane	7.62	63	80196	0.882	ppbv	89
40) 1,4-Dioxane	7.87	88	26366m	0.776	ppbv	
41) Tetrahydrofuran	6.06	42	78064	0.897	ppbv	98
42) Bromodichloromethane	7.80	83	175598	0.936	ppbv	93
43) Methyl Methacrylate	8.03	69	78939	0.911	ppbv	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	378872	0.954	ppbv	98
45) t-1,3-Dichloropropene	9.30	75	82854	0.817	ppbv	93
46) cis-1,3-Dichloropropene	8.72	75	103280	0.871	ppbv	99
47) 1,1,2-Trichloroethane	9.49	97	89220	0.928	ppbv	93
48) Dibromochloromethane	10.33	129	127984	0.867	ppbv	97
49) Bromoform	13.08	173	109410	0.848	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	213897	0.905	ppbv	100
51) 2-Hexanone	10.16	43	158343	0.850	ppbv #	98
52) Tetrachloroethene	11.25	164	72109	0.925	ppbv	84
53) Toluene	9.82	91	216198	0.910	ppbv	99
54) 1,2-Dibromoethane	10.63	107	126742	0.947	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.15	131	103001m	1.004	ppbv	
57) Chlorobenzene	12.18	112	192776	0.994	ppbv #	93
58) Ethyl Benzene	12.74	91	299365	0.959	ppbv	98
59) m/p-Xylene	13.00	91	538871m	1.967	ppbv	
60) o-Xylene	13.73	91	266911	0.975	ppbv	95
61) Styrene	13.56	104	158778	0.849	ppbv	99
62) Isopropylbenzene	14.70	105	391165	1.079	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.71	83	197037m	0.907	ppbv	
64) n-propylbenzene	15.60	120	94116m	1.023	ppbv	
65) tert-Butylbenzene	16.78	119	339422m	1.074	ppbv	
66) Benzyl Chloride	17.03	91	101497m	0.832	ppbv	
67) sec-Butylbenzene	17.33	105	494018	1.094	ppbv	97
69) p-Isopropyltoluene	17.69	119	397304	1.107	ppbv	98
70) n-Butylbenzene	18.59	91	436057m	1.136	ppbv	
71) 2-Chlorotoluene	15.49	91	299543	1.078	ppbv	95
72) 4-Ethyltoluene	15.88	105	285619	0.946	ppbv	96
73) 1,3,5-Trimethylbenzene	16.03	105	277967	0.971	ppbv	97
74) 1,2,4-Trimethylbenzene	16.80	105	330464	1.071	ppbv	94
75) 1,3-Dichlorobenzene	17.03	146	183004	1.010	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	181015	1.012	ppbv	98
77) 1,2-Dichlorobenzene	17.86	146	179249m	1.027	ppbv	
78) Hexachloro-1,3-Butadiene	23.42	225	154923m	1.084	ppbv	
79) Naphthalene	22.26	128	262315m	1.117	ppbv	
80) Naphthalene, 2-methyl-	25.02	142	64098	1.295	ppbv	97
81) 1,2,4-Trichlorobenzene	21.99	180	158653m	1.106	ppbv	

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

