

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031319\
 Data File : VL033301.D
 Acq On : 13 Mar 2019 17:49
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:41:42 PM

Quant Time: Mar 14 00:02:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 14 00:02:28 2019
 QLast Update : Wed Mar 13 17:31:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	794562	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1823005	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2048235	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1573088	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	179964	1.121	ppbv	97
3) Chlorodifluoromethane	3.01	51	109428	1.038	ppbv	100
4) Chloromethane	3.17	50	59301	1.052	ppbv	100
5) Vinyl Chloride	3.29	62	56474	1.026	ppbv	92
6) Bromomethane	3.52	94	35338	1.051	ppbv	98
7) Chloroethane	3.60	64	20315	1.021	ppbv #	88
8) Dichlorotetrafluoroethane	3.22	85	147623	1.088	ppbv	99
9) Propene	3.03	41	49524	1.031	ppbv	97
10) Heptane	8.25	43	111842	1.033	ppbv	98
11) Trichlorofluoromethane	4.00	101	156207	0.983	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	106364	1.170	ppbv	93
13) Ethanol	3.66	45	18244m	1.245	ppbv	
14) Bromoethene	3.79	108	43103	1.017	ppbv	98
15) Acetone	3.91	43	122934	1.009	ppbv	97
16) 1,3-Butadiene	3.36	39	44332	1.007	ppbv	87
17) tert-Butyl alcohol	4.37	59	22079m	1.350	ppbv	
18) 1,1-Dichloroethene	4.35	96	43614	1.084	ppbv	97
19) Isopropyl Alcohol	4.03	45	71857	0.976	ppbv #	95
20) Methylene Chloride	4.40	84	52282m	1.290	ppbv	
21) Allyl Chloride	4.48	41	64823	1.070	ppbv	94
22) trans-1,2-Dichloroethene	4.96	96	45256	1.055	ppbv	84
23) Vinyl Acetate	5.16	43	158070	1.035	ppbv	98
24) 1,1-Dichloroethane	5.09	63	117826	1.064	ppbv	96
25) Ethyl Acetate	5.77	43	209067	1.113	ppbv	98
26) Hexane	5.78	57	102007	1.157	ppbv	93
27) Carbon Disulfide	4.62	76	95960	1.026	ppbv	96
28) Methyl tert-Butyl Ether	5.12	73	133379	1.066	ppbv	100
29) Chloroform	5.84	83	150544	1.122	ppbv	94
30) Cyclohexane	7.25	84	71990	1.053	ppbv	95
31) cis-1,2-Dichloroethene	5.64	61	90595	1.072	ppbv	97
32) 1,1,1-Trichloroethane	6.61	97	136612	1.045	ppbv	97
34) 2-Butanone	5.33	43	132200	1.097	ppbv	98
35) Carbon Tetrachloride	7.13	117	140304	1.053	ppbv	96
36) Benzene	7.00	78	183124	1.089	ppbv	99
37) 1,2-Dichloroethane	6.41	62	115874	1.149	ppbv	99
38) Trichloroethene	7.96	130	72908m	1.112	ppbv	
39) 1,2-Dichloropropane	7.73	63	67460	1.066	ppbv	88
40) 1,4-Dioxane	7.97	88	24952m	1.048	ppbv	
41) Tetrahydrofuran	6.16	42	71050	1.062	ppbv	99
42) Bromodichloromethane	7.91	83	151172	1.089	ppbv #	95
43) Methyl Methacrylate	8.14	69	68473	1.045	ppbv	94

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44) 2,2,4-Trimethylpentane	7.99	57	321525	1.126	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	74405	0.924	ppbv	95
46) cis-1,3-Dichloropropene	8.83	75	94764	1.004	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	74920	1.109	ppbv	94
48) Dibromochloromethane	10.45	129	125155	1.130	ppbv	97
49) Bromoform	13.20	173	97994	1.091	ppbv	98
50) 4-Methyl-2-Pentanone	8.88	43	186613	1.085	ppbv	99
51) 2-Hexanone	10.28	43	139087m	1.059	ppbv	
52) Tetrachloroethene	11.37	164	73099	1.186	ppbv	90
53) Toluene	9.94	91	204524	1.055	ppbv	99
54) 1,2-Dibromoethane	10.76	107	122805	1.183	ppbv	92
56) 1,1,1,2-Tetrachloroethane	12.28	131	95024m	1.091	ppbv	
57) Chlorobenzene	12.30	112	177695	1.150	ppbv	97
58) Ethyl Benzene	12.86	91	308845	1.097	ppbv	95
59) m/p-Xylene	13.14	91	526918m	2.239	ppbv	
60) o-Xylene	13.85	91	251951	1.113	ppbv	98
61) Styrene	13.68	104	168201	1.044	ppbv	99
62) Isopropylbenzene	14.82	105	352768	1.119	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	172804	1.139	ppbv	99
64) n-propylbenzene	15.72	120	86993	1.121	ppbv	97
65) tert-Butylbenzene	16.90	119	298210	1.120	ppbv	97
66) Benzyl Chloride	17.15	91	86892m	0.843	ppbv	
67) sec-Butylbenzene	17.46	105	420384	1.110	ppbv	100
69) p-Isopropyltoluene	17.81	119	330100m	1.079	ppbv	
70) n-Butylbenzene	18.71	91	349683	1.064	ppbv	97
71) 2-Chlorotoluene	15.62	91	258577	1.088	ppbv	100
72) 4-Ethyltoluene	16.00	105	254720	1.042	ppbv	96
73) 1,3,5-Trimethylbenzene	16.16	105	236105	1.025	ppbv	100
74) 1,2,4-Trimethylbenzene	16.92	105	246704m	1.052	ppbv	
75) 1,3-Dichlorobenzene	17.17	146	161717m	1.150	ppbv	
76) 1,4-Dichlorobenzene	17.30	146	155128	1.116	ppbv	98
77) 1,2-Dichlorobenzene	17.99	146	155278m	1.109	ppbv	
78) Hexachloro-1,3-Butadiene	23.54	225	119797	1.027	ppbv	99
79) Naphthalene	22.41	128	158673m	0.625	ppbv	
80) Naphthalene,2-methyl-	25.12	142	6760	0.097	ppbv #	85
81) 1,2,4-Trichlorobenzene	22.14	180	101563m	0.760	ppbv	

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

