

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033327.D
 Acq On : 15 Mar 2019 11:06
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 10:02:15 AM

Quant Time: Mar 15 13:20:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 2019
 QLast Update : Fri Mar 15 12:24:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	888185	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2068748	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2277876	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1635456	9.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	252879	1.573	ppbv	95
3) Chlorodifluoromethane	3.02	51	209776	2.064	ppbv	99
4) Chloromethane	3.17	50	115370	2.088	ppbv	98
5) Vinyl Chloride	3.29	62	108284	1.932	ppbv	95
6) Bromomethane	3.52	94	68202	2.006	ppbv	100
7) Chloroethane	3.60	64	40894	2.034	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	273992	1.999	ppbv	100
9) Propene	3.04	41	95650	2.099	ppbv	99
10) Heptane	8.25	43	237130	2.061	ppbv	100
11) Trichlorofluoromethane	4.01	101	311242	2.038	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	211089	2.110	ppbv	98
13) Ethanol	3.65	45	49703	3.136	ppbv	99
14) Bromoethene	3.79	108	86663	2.048	ppbv	98
15) Acetone	3.90	43	331522	2.438	ppbv	98
16) 1,3-Butadiene	3.36	39	94617	1.982	ppbv	94
17) tert-Butyl alcohol	4.36	59	33298m	1.717	ppbv	
18) 1,1-Dichloroethene	4.35	96	95105	2.147	ppbv	93
19) Isopropyl Alcohol	4.03	45	109898	1.611	ppbv #	1
20) Methylene Chloride	4.41	84	96127	2.207	ppbv	95
21) Allyl Chloride	4.48	41	136879	2.035	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	93673	2.128	ppbv	97
23) Vinyl Acetate	5.16	43	333197	2.098	ppbv	98
24) 1,1-Dichloroethane	5.09	63	239196	2.114	ppbv	98
25) Ethyl Acetate	5.77	43	419169	2.130	ppbv	99
26) Hexane	5.79	57	193744	2.151	ppbv	96
27) Carbon Disulfide	4.62	76	210121	2.068	ppbv	98
28) Methyl tert-Butyl Ether	5.12	73	278717	2.149	ppbv	99
29) Chloroform	5.85	83	302547	2.061	ppbv	98
30) Cyclohexane	7.25	84	145157	2.036	ppbv #	85
31) cis-1,2-Dichloroethene	5.64	61	183299	2.054	ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	297864	2.044	ppbv	99
34) 2-Butanone	5.33	43	293687	2.238	ppbv	97
35) Carbon Tetrachloride	7.14	117	301459	2.019	ppbv	99
36) Benzene	7.01	78	380058	2.055	ppbv	98
37) 1,2-Dichloroethane	6.42	62	239254	2.075	ppbv	100
38) Trichloroethene	7.97	130	140181	1.926	ppbv	97
39) 1,2-Dichloropropane	7.74	63	138822	1.973	ppbv	89
40) 1,4-Dioxane	7.98	88	45266	1.756	ppbv	77
41) Tetrahydrofuran	6.16	42	147206	2.023	ppbv	99
42) Bromodichloromethane	7.92	83	318595	2.028	ppbv	95
43) Methyl Methacrylate	8.14	69	147300	2.043	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	648542	2.091	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	178027	2.016	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	210339	2.027	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	154947	2.047	ppbv	97
48) Dibromochloromethane	10.45	129	258466	1.998	ppbv	100
49) Bromoform	13.20	173	241930	2.066	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	403688	2.103	ppbv	98
51) 2-Hexanone	10.28	43	315831	2.066	ppbv #	100
52) Tetrachloroethene	11.38	164	155399	2.080	ppbv	95
53) Toluene	9.95	91	431810	2.047	ppbv	99
54) 1,2-Dibromoethane	10.76	107	261656	2.121	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	212918	2.083	ppbv #	1
57) Chlorobenzene	12.30	112	368182	2.035	ppbv	95
58) Ethyl Benzene	12.87	91	671012	2.082	ppbv	97
59) m/p-Xylene	13.15	91	1170130m	4.262	ppbv	
60) o-Xylene	13.85	91	567510	2.110	ppbv	100
61) Styrene	13.69	104	398903	2.124	ppbv	99
62) Isopropylbenzene	14.83	105	779148	2.096	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	396828	1.952	ppbv	100
64) n-propylbenzene	15.72	120	199821	2.130	ppbv	98
65) tert-Butylbenzene	16.91	119	724028	2.114	ppbv	99
66) Benzyl Chloride	17.16	91	273386	1.956	ppbv	99
67) sec-Butylbenzene	17.46	105	1004563	2.052	ppbv	100
69) p-Isopropyltoluene	17.82	119	835823	2.098	ppbv	99
70) n-Butylbenzene	18.72	91	888630	2.088	ppbv	99
71) 2-Chlorotoluene	15.62	91	611525	2.066	ppbv	99
72) 4-Ethyltoluene	16.00	105	647889	2.111	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	635126	2.090	ppbv	94
74) 1,2,4-Trimethylbenzene	16.93	105	669687	2.094	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	385207	2.071	ppbv	98
76) 1,4-Dichlorobenzene	17.31	146	378361	2.065	ppbv	98
77) 1,2-Dichlorobenzene	17.99	146	368017	2.044	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	220765	2.038	ppbv	99
79) Naphthalene	22.42	128	668569	2.140	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	353057	2.344	ppbv	97
81) 1,2,4-Trichlorobenzene	22.14	180	343421	2.120	ppbv	99

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

