

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
 Data File : VL033297.D
 Acq On : 13 Mar 2019 00:14
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 5:06:38 AM

Quant Time: Mar 13 09:37:32 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 14

QLast Update : Wed Mar 13 07:17:55 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	843296	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1966794	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2159013	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1603188	9.62	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	1265894	7.433	ppbv	100
3) Chlorodifluoromethane	3.01	51	990422	8.854	ppbv	99
4) Chloromethane	3.17	50	529798	8.859	ppbv	98
5) Vinyl Chloride	3.29	62	517334	8.858	ppbv	97
6) Bromomethane	3.51	94	323812	9.076	ppbv	96
7) Chloroethane	3.60	64	198423	9.395	ppbv	95
8) Dichlorotetrafluoroethane	3.22	85	1265125	8.787	ppbv	100
9) Propene	3.03	41	445448	8.735	ppbv	99
10) Heptane	8.25	43	1104344	9.615	ppbv	99
11) Trichlorofluoromethane	4.00	101	1360570	8.071	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	940120	9.744	ppbv	100
13) Ethanol	3.65	45	97727	6.282	ppbv	98
14) Bromoethene	3.79	108	403515	8.968	ppbv	100
15) Acetone	3.90	43	978591	7.565	ppbv	100
16) 1,3-Butadiene	3.36	39	405638	8.684	ppbv	96
17) tert-Butyl alcohol	4.35	59	171418	9.874	ppbv	100
18) 1,1-Dichloroethene	4.35	96	425459	9.962	ppbv	92
19) Isopropyl Alcohol	4.02	45	589966	7.546	ppbv	99
20) Methylene Chloride	4.41	84	363406	8.449	ppbv	96
21) Allyl Chloride	4.48	41	650174	10.110	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	423466	9.298	ppbv	90
23) Vinyl Acetate	5.15	43	1600033	9.872	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1103095	9.384	ppbv	98
25) Ethyl Acetate	5.77	43	1847879	9.270	ppbv	100
26) Hexane	5.78	57	831256	8.884	ppbv	99
27) Carbon Disulfide	4.62	76	1034616	10.422	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1270759	9.570	ppbv	100
29) Chloroform	5.85	83	1375389	9.662	ppbv	99
30) Cyclohexane	7.25	84	697989	9.622	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	864244	9.636	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1315950	9.488	ppbv	100
34) 2-Butanone	5.33	43	1271062	9.773	ppbv	99
35) Carbon Tetrachloride	7.13	117	1400543	9.746	ppbv	98
36) Benzene	7.00	78	1758148	9.693	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1036380	9.526	ppbv	100
38) Trichloroethene	7.96	130	663445	9.383	ppbv	99
39) 1,2-Dichloropropane	7.73	63	666917	9.770	ppbv	99
40) 1,4-Dioxane	7.95	88	235167	9.154	ppbv	95
41) Tetrahydrofuran	6.15	42	699128	9.682	ppbv	100
42) Bromodichloromethane	7.92	83	1510084	10.083	ppbv	99
43) Methyl Methacrylate	8.13	69	714864	10.111	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2917638	9.469	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	960480	11.051	ppbv	96
46) cis-1,3-Dichloropropene	8.84	75	1104369	10.840	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	733249	10.060	ppbv	98
48) Dibromochloromethane	10.45	129	1253396	10.488	ppbv	100
49) Bromoform	13.20	173	1083880	11.189	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1848645	9.960	ppbv	99
51) 2-Hexanone	10.27	43	1415204	9.988	ppbv #	100
52) Tetrachloroethene	11.37	164	638587	9.604	ppbv	98
53) Toluene	9.95	91	2063439	9.869	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1134243	10.124	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	864388	9.419	ppbv #	60
57) Chlorobenzene	12.30	112	1487026	9.133	ppbv	99
58) Ethyl Benzene	12.87	91	2807344	9.462	ppbv	97
59) m/p-Xylene	13.15	91	4714814m	19.002	ppbv	
60) o-Xylene	13.85	91	2322791	9.738	ppbv	100
61) Styrene	13.69	104	1714329	10.091	ppbv	100
62) Isopropylbenzene	14.83	105	3248872	9.775	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1568842	9.811	ppbv	99
64) n-propylbenzene	15.72	120	822821	10.061	ppbv	97
65) tert-Butylbenzene	16.91	119	2809923	10.016	ppbv	100
66) Benzyl Chloride	17.16	91	1388460	12.777	ppbv	99
67) sec-Butylbenzene	17.46	105	4032329	10.098	ppbv	100
69) p-Isopropyltoluene	17.82	119	3269982	10.137	ppbv	100
70) n-Butylbenzene	18.72	91	3451033	9.963	ppbv	100
71) 2-Chlorotoluene	15.62	91	2524856	10.078	ppbv	100
72) 4-Ethyltoluene	16.00	105	2667896	10.354	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2543049	10.474	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	2571850	10.401	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	1475746	9.958	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1488868	10.159	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1422988	9.645	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1148094	9.341	ppbv	99
79) Naphthalene	22.42	128	2801931	10.467	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	1624987	22.156	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1341897	9.522	ppbv	100

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

