

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032019\
 Data File : VL033419.D
 Acq On : 21 Mar 2019 12:07
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 8:26:44 AM

Quant Time: Mar 22 07:27:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	805478	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1884611	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2658272	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1838696	9.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	1594024	11.253	ppbv 98
3) Chlorodifluoromethane	3.01	51	959629	10.380	ppbv 98
4) Chloromethane	3.17	50	501964	10.027	ppbv 96
5) Vinyl Chloride	3.29	62	497042	9.624	ppbv 96
6) Bromomethane	3.52	94	319803	10.417	ppbv 100
7) Chloroethane	3.60	64	184851	10.243	ppbv 96
8) Dichlorotetrafluoroethane	3.22	85	1274953	10.573	ppbv 99
9) Propene	3.04	41	399901	9.690	ppbv 98
10) Heptane	8.25	43	1288960	12.592	ppbv 100
11) Trichlorofluoromethane	4.00	101	1484287	10.523	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	980340	10.476	ppbv 98
13) Ethanol	3.65	45	91724	4.662	ppbv 99
14) Bromoethene	3.79	108	398481	10.216	ppbv 100
15) Acetone	3.90	43	904964	7.228	ppbv 100
16) 1,3-Butadiene	3.36	39	462255	11.366	ppbv 89
17) tert-Butyl alcohol	4.36	59	172083	9.766	ppbv 100
18) 1,1-Dichloroethene	4.35	96	437843	10.232	ppbv 99
19) Isopropyl Alcohol	4.02	45	616072	10.344	ppbv 99
20) Methylene Chloride	4.41	84	361228	8.846	ppbv 97
21) Allyl Chloride	4.48	41	662319	10.904	ppbv 98
22) trans-1,2-Dichloroethene	4.96	96	524783	12.655	ppbv 99
23) Vinyl Acetate	5.16	43	1735727	11.981	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1248105	11.929	ppbv 99
25) Ethyl Acetate	5.77	43	2159438	11.864	ppbv 100
26) Hexane	5.78	57	948224	11.653	ppbv 98
27) Carbon Disulfide	4.62	76	1049414	11.203	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1441309	11.925	ppbv 99
29) Chloroform	5.85	83	1618127	12.145	ppbv 99
30) Cyclohexane	7.25	84	812817	12.459	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	996495	12.248	ppbv 96
32) 1,1,1-Trichloroethane	6.62	97	1640849	12.543	ppbv 99
34) 2-Butanone	5.33	43	1389730	11.228	ppbv 99
35) Carbon Tetrachloride	7.14	117	1710948	12.877	ppbv 99
36) Benzene	7.01	78	1999342	11.854	ppbv 97
37) 1,2-Dichloroethane	6.42	62	1267788	11.888	ppbv 99
38) Trichloroethene	7.96	130	784397	12.290	ppbv 95
39) 1,2-Dichloropropane	7.74	63	768874	12.173	ppbv 97
40) 1,4-Dioxane	7.96	88	285976m	12.857	ppbv
41) Tetrahydrofuran	6.15	42	798131	12.084	ppbv 99
42) Bromodichloromethane	7.92	83	1817725	12.713	ppbv 97
43) Methyl Methacrylate	8.14	69	828563	12.617	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.99	57	3402822	12.181	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1093624	13.488	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	1249472	13.087	ppbv	100
47) 1,1,2-Trichloroethane	9.61	97	843431	12.086	ppbv	93
48) Dibromochloromethane	10.46	129	1545815	13.208	ppbv	99
49) Bromoform	13.20	173	1803131	16.241	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2115559	12.101	ppbv	99
51) 2-Hexanone	10.27	43	1661886	12.321	ppbv #	98
52) Tetrachloroethene	11.38	164	1002635	14.269	ppbv	98
53) Toluene	9.95	91	2374914	12.392	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1350595	11.448	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	1438105	12.094	ppbv	95
57) Chlorobenzene	12.31	112	2357126	11.196	ppbv	99
58) Ethyl Benzene	12.87	91	4475983	11.903	ppbv	98
59) m/p-Xylene	13.15	91	7573171m	23.434	ppbv	
60) o-Xylene	13.85	91	3754905	11.910	ppbv	100
61) Styrene	13.69	104	2706065	12.259	ppbv	99
62) Isopropylbenzene	14.83	105	4980227	11.362	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2584575	11.340	ppbv	100
64) n-propylbenzene	15.72	120	1276686	11.511	ppbv	99
65) tert-Butylbenzene	16.91	119	4518276	11.450	ppbv	100
66) Benzyl Chloride	17.16	91	2217783	13.600	ppbv	99
67) sec-Butylbenzene	17.46	105	6459690	11.552	ppbv	100
69) p-Isopropyltoluene	17.82	119	5307510	11.618	ppbv	99
70) n-Butylbenzene	18.72	91	5647311	11.593	ppbv	100
71) 2-Chlorotoluene	15.62	91	3859337	11.311	ppbv	100
72) 4-Ethyltoluene	16.00	105	4133598	11.545	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3987128	11.431	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	4147995	11.229	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	2371427	10.892	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	2368812	11.237	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	2339434	11.345	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1306033	10.564	ppbv	99
79) Naphthalene	22.42	128	2860913	8.037	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	1076868	6.380	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1497457	8.249	ppbv	100

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

