

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111919\
 Data File : VL034381.D
 Acq On : 19 Nov 2019 15:26
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111919

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 3:53:41 PM

Quant Time: Nov 20 04:26:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 2019
 QLast Update : Wed Nov 20 03:30:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1052906	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2194760	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2296508m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1828162	9.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	1707789	8.966	ppbv 98
3) Chlorodifluoromethane	2.96	51	1172530	8.925	ppbv 98
4) Chloromethane	3.11	50	727096	9.383	ppbv 99
5) Vinyl Chloride	3.23	62	655600	9.030	ppbv 96
6) Bromomethane	3.45	94	350445	9.593	ppbv 94
7) Chloroethane	3.54	64	247268	9.384	ppbv 98
8) Dichlorotetrafluoroethane	3.16	85	1489264	8.706	ppbv 98
9) Propene	2.98	41	565901	9.703	ppbv 100
10) Heptane	8.16	43	1434481	9.530	ppbv 99
11) Trichlorofluoromethane	3.93	101	1645490	8.680	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1128337	8.963	ppbv 99
13) Ethanol	3.58	45	125226	7.331	ppbv 97
14) Bromoethene	3.72	108	474893	9.277	ppbv 98
15) Acetone	3.84	43	1301516	8.632	ppbv 100
16) 1,3-Butadiene	3.30	39	617269	9.399	ppbv 100
17) tert-Butyl alcohol	4.28	59	1264088	9.974	ppbv 99
18) 1,1-Dichloroethene	4.28	96	504983	9.170	ppbv 98
19) Isopropyl Alcohol	3.96	45	997085	9.093	ppbv 99
20) Methylene Chloride	4.34	84	444192	8.308	ppbv 98
21) Allyl Chloride	4.40	41	878536	9.724	ppbv 98
22) trans-1,2-Dichloroethene	4.89	96	516835	9.310	ppbv 98
23) Vinyl Acetate	5.08	43	1973335	10.019	ppbv 99
24) 1,1-Dichloroethane	5.01	63	1385221	9.156	ppbv 99
25) Ethyl Acetate	5.69	43	2451419	9.112	ppbv 99
26) Hexane	5.70	57	1059444	9.164	ppbv 99
27) Carbon Disulfide	4.54	76	1301637	10.337	ppbv 99
28) Methyl tert-Butyl Ether	5.03	73	1845551	9.627	ppbv 100
29) Chloroform	5.77	83	1681786	8.983	ppbv 94
30) Cyclohexane	7.16	84	867983	9.931	ppbv 99
31) cis-1,2-Dichloroethene	5.56	61	1146269	9.595	ppbv 99
32) 1,1,1-Trichloroethane	6.53	97	1669258	9.510	ppbv 99
34) 2-Butanone	5.25	43	1659314	9.185	ppbv 100
35) Carbon Tetrachloride	7.04	117	1712905	9.077	ppbv 99
36) Benzene	6.92	78	2079075	9.476	ppbv 99
37) 1,2-Dichloroethane	6.33	62	1408872	8.644	ppbv 99
38) Trichloroethene	7.87	130	785607	8.726	ppbv 97
39) 1,2-Dichloropropane	7.65	63	855743	9.201	ppbv 98
40) 1,4-Dioxane	7.86	88	329470	8.923	ppbv # 99
41) Tetrahydrofuran	6.06	42	974269	9.615	ppbv 99
42) Bromodichloromethane	7.83	83	1832990	8.992	ppbv 99
43) Methyl Methacrylate	8.04	69	901016	9.901	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	3572805	8.911	ppbv	99
45) t-1,3-Dichloropropene	9.32	75	1218936	10.445	ppbv	100
46) cis-1,3-Dichloropropene	8.74	75	1338162	10.208	ppbv	94
47) 1,1,2-Trichloroethane	9.52	97	848532	9.025	ppbv	98
48) Dibromochloromethane	10.35	129	1498288	9.281	ppbv	100
49) Bromoform	13.10	173	1325580m	9.198	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	2404784	9.200	ppbv	99
51) 2-Hexanone	10.17	43	2042388	9.328	ppbv #	100
52) Tetrachloroethene	11.27	164	786960	8.290	ppbv	96
53) Toluene	9.85	91	2370710	9.513	ppbv	100
54) 1,2-Dibromoethane	10.66	107	1308885	9.080	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.18	131	981545	8.738	ppbv #	59
57) Chlorobenzene	12.20	112	1750102	8.430	ppbv	98
58) Ethyl Benzene	12.77	91	3187900	8.945	ppbv	100
59) m/p-Xylene	13.05	91	5233183m	16.987	ppbv	
60) o-Xylene	13.75	91	2584109	8.484	ppbv	100
61) Styrene	13.59	104	1959228	8.920	ppbv	99
62) Isopropylbenzene	14.73	105	3384458	8.402	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.73	83	1726854	7.542	ppbv	99
64) n-propylbenzene	15.62	120	874494	8.359	ppbv	97
65) tert-Butylbenzene	16.81	119	2927392	8.090	ppbv	100
66) Benzyl Chloride	17.06	91	1355086	9.734	ppbv	100
67) sec-Butylbenzene	17.36	105	4099807	8.100	ppbv	99
69) p-Isopropyltoluene	17.72	119	3413128	8.125	ppbv	99
70) n-Butylbenzene	18.62	91	3670812	8.121	ppbv	99
71) 2-Chlorotoluene	15.52	91	2667671	8.305	ppbv	100
72) 4-Ethyltoluene	15.90	105	2967543	8.432	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	2824185	8.198	ppbv	99
74) 1,2,4-Trimethylbenzene	16.83	105	2882838	7.878	ppbv	96
75) 1,3-Dichlorobenzene	17.07	146	1632589	7.762	ppbv	99
76) 1,4-Dichlorobenzene	17.21	146	1653413	8.095	ppbv	99
77) 1,2-Dichlorobenzene	17.89	146	1616913	7.959	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1564492	8.963	ppbv	99
79) Naphthalene	22.29	128	3164060	9.974	ppbv	97
80) Naphthalene, 2-methyl-	25.04	142	1611281	11.248	ppbv	99
81) 1,2,4-Trichlorobenzene	22.02	180	1836322	9.422	ppbv	98

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

