

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120319\
 Data File : VL034455.D
 Acq On : 3 Dec 2019 11:36
 Operator : SY/AP
 Sample : VL1203ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL1203ABS01

Manual Integrations
 APPROVED

apatel
 12/3/2019 5:04:00 PM

Quant Time: Dec 03 12:18:15 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 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	954865	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1931093	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	2090659	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1705782	9.70	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1864429	10.793	ppbv 100
3) Chlorodifluoromethane	2.97	51	1088173	9.134	ppbv 98
4) Chloromethane	3.12	50	657912	9.362	ppbv 98
5) Vinyl Chloride	3.24	62	613089	9.312	ppbv 92
6) Bromomethane	3.46	94	322206	9.726	ppbv 94
7) Chloroethane	3.55	64	229087	9.586	ppbv 98
8) Dichlorotetrafluoroethane	3.17	85	1415323	9.124	ppbv 99
9) Propene	2.99	41	477135	9.021	ppbv 98
10) Heptane	8.16	43	1268917	9.296	ppbv 100
11) Trichlorofluoromethane	3.94	101	1621830	9.434	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1084246	9.497	ppbv 100
13) Ethanol	3.60	45	104497	7.092	ppbv 97
14) Bromoethene	3.73	108	438415	9.444	ppbv 99
15) Acetone	3.84	43	1184424	8.662	ppbv 99
16) 1,3-Butadiene	3.31	39	563366	9.459	ppbv 99
17) tert-Butyl alcohol	4.29	59	1021732	8.890	ppbv 100
18) 1,1-Dichloroethene	4.29	96	485675	9.725	ppbv 96
19) Isopropyl Alcohol	3.97	45	812940	9.276	ppbv 100
20) Methylene Chloride	4.34	84	430894	8.887	ppbv 97
21) Allyl Chloride	4.41	41	837340	10.220	ppbv 99
22) trans-1,2-Dichloroethene	4.89	96	493381	9.800	ppbv 98
23) Vinyl Acetate	5.09	43	1787824	10.009	ppbv 99
24) 1,1-Dichloroethane	5.02	63	1283133	9.352	ppbv 100
25) Ethyl Acetate	5.69	43	2247051	9.210	ppbv 100
26) Hexane	5.71	57	945938	9.022	ppbv 98
27) Carbon Disulfide	4.56	76	1265276	11.080	ppbv 98
28) Methyl tert-Butyl Ether	5.04	73	1697975	9.767	ppbv 100
29) Chloroform	5.78	83	1572150	9.260	ppbv 96
30) Cyclohexane	7.17	84	752276	9.491	ppbv 99
31) cis-1,2-Dichloroethene	5.57	61	1045311	9.648	ppbv 97
32) 1,1,1-Trichloroethane	6.54	97	1615260	10.147	ppbv 99
34) 2-Butanone	5.26	43	1467845	9.235	ppbv 100
35) Carbon Tetrachloride	7.05	117	1681459	10.127	ppbv 97
36) Benzene	6.92	78	1805691	9.354	ppbv 96
37) 1,2-Dichloroethane	6.34	62	1372536	9.571	ppbv 100
38) Trichloroethene	7.88	130	730629	9.223	ppbv 99
39) 1,2-Dichloropropane	7.65	63	759825	10.217	ppbv 96
40) 1,4-Dioxane	7.87	88	275782	8.489	ppbv # 95
41) Tetrahydrofuran	6.07	42	841513	9.439	ppbv 99
42) Bromodichloromethane	7.83	83	1755917	9.790	ppbv 98
43) Methyl Methacrylate	8.05	69	781246	9.757	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	3270381	9.270	ppbv	99
45) t-1,3-Dichloropropene	9.33	75	1117056	10.879	ppbv	99
46) cis-1,3-Dichloropropene	8.75	75	1208817	10.481	ppbv	97
47) 1,1,2-Trichloroethane	9.53	97	784514	9.483	ppbv	95
48) Dibromochloromethane	10.37	129	1456885	10.257	ppbv	99
49) Bromoform	13.11	173	1319846	10.409	ppbv	99
50) 4-Methyl-2-Pentanone	8.79	43	2174501	9.455	ppbv	100
51) 2-Hexanone	10.19	43	1839907	9.551	ppbv	97
52) Tetrachloroethene	11.28	164	685940	8.213	ppbv	96
53) Toluene	9.86	91	2093154	9.546	ppbv	100
54) 1,2-Dibromoethane	10.67	107	1179137	9.297	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.19	131	964901	9.435	ppbv	99
57) Chlorobenzene	12.21	112	1617686	8.560	ppbv	98
58) Ethyl Benzene	12.78	91	2912985	8.978	ppbv	100
59) m/p-Xylene	13.06	91	4933913m	17.593	ppbv	
60) o-Xylene	13.76	91	2439905	8.799	ppbv	99
61) Styrene	13.60	104	1815682	9.080	ppbv	99
62) Isopropylbenzene	14.74	105	3179073	8.669	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.74	83	1715648	8.231	ppbv	99
64) n-propylbenzene	15.64	120	822745	8.639	ppbv	96
65) tert-Butylbenzene	16.82	119	2847815	8.645	ppbv	100
66) Benzyl Chloride	17.07	91	1455193	11.483	ppbv	100
67) sec-Butylbenzene	17.37	105	3952234	8.577	ppbv	99
69) p-Isopropyltoluene	17.73	119	3280386	8.578	ppbv	100
70) n-Butylbenzene	18.63	91	3481273	8.460	ppbv	100
71) 2-Chlorotoluene	15.53	91	2497341	8.540	ppbv	99
72) 4-Ethyltoluene	15.91	105	2818766	8.798	ppbv	99
73) 1,3,5-Trimethylbenzene	16.07	105	2704223	8.623	ppbv	96
74) 1,2,4-Trimethylbenzene	16.84	105	2781184	8.348	ppbv	93
75) 1,3-Dichlorobenzene	17.08	146	1590240	8.305	ppbv	100
76) 1,4-Dichlorobenzene	17.22	146	1590812	8.555	ppbv	99
77) 1,2-Dichlorobenzene	17.90	146	1539451	8.324	ppbv	99
78) Hexachloro-1,3-Butadiene	23.46	225	1320322	8.309	ppbv	99
79) Naphthalene	22.30	128	2376248	8.228	ppbv	99
80) Naphthalene, 2-methyl-	25.04	142	1241653	9.521	ppbv	99
81) 1,2,4-Trichlorobenzene	22.03	180	1437627	8.103	ppbv	100

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

