

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010419\
 Data File : VL033084.D
 Acq On : 5 Jan 2019 1:40
 Operator : SY/AP
 Sample : VL0104ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:01:37 AM

Quant Time: Jan 05 03:21:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1074422	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2650478	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2574094m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2015719	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	2555381	12.780	ppbv 100
3) Chlorodifluoromethane	3.02	51	1375098	11.306	ppbv 99
4) Chloromethane	3.17	50	740101	10.624	ppbv 98
5) Vinyl Chloride	3.29	62	759891	10.801	ppbv 95
6) Bromomethane	3.52	94	494884	10.355	ppbv 99
7) Chloroethane	3.60	64	277110	10.072	ppbv 99
8) Dichlorotetrafluoroethane	3.22	85	1964028	11.403	ppbv 100
9) Propene	3.04	41	527253	11.605	ppbv 100
10) Heptane	8.26	43	1241979	9.601	ppbv 100
11) Trichlorofluoromethane	4.01	101	1903312	8.614	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1275581	9.130	ppbv 99
13) Ethanol	3.65	45	134643	7.431	ppbv 96
14) Bromoethene	3.79	108	582988	9.448	ppbv 99
15) Acetone	3.90	43	1189559	7.999	ppbv 100
16) 1,3-Butadiene	3.36	39	648495	11.564	ppbv 99
17) tert-Butyl alcohol	4.36	59	279480	8.872	ppbv 99
18) 1,1-Dichloroethene	4.35	96	576102	8.952	ppbv 91
19) Isopropyl Alcohol	4.02	45	824224	8.051	ppbv 99
20) Methylene Chloride	4.41	84	500657	8.076	ppbv 98
21) Allyl Chloride	4.48	41	901114	9.778	ppbv 98
22) trans-1,2-Dichloroethene	4.97	96	594214	9.315	ppbv 100
23) Vinyl Acetate	5.16	43	1814250	9.590	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1436970	8.946	ppbv 99
25) Ethyl Acetate	5.77	43	2189889	8.712	ppbv 99
26) Hexane	5.79	57	1022479	8.638	ppbv 99
27) Carbon Disulfide	4.62	76	1467781	10.055	ppbv 99
28) Methyl tert-Butyl Ether	5.12	73	1731063	9.370	ppbv 100
29) Chloroform	5.85	83	1777766	8.813	ppbv 99
30) Cyclohexane	7.26	84	857478	9.716	ppbv 98
31) cis-1,2-Dichloroethene	5.65	61	1070585	9.741	ppbv 99
32) 1,1,1-Trichloroethane	6.63	97	1872573	9.147	ppbv 99
34) 2-Butanone	5.33	43	1389309	9.021	ppbv 99
35) Carbon Tetrachloride	7.14	117	2020447	8.875	ppbv 97
36) Benzene	7.01	78	2025146	9.328	ppbv 99
37) 1,2-Dichloroethane	6.42	62	1381054	9.111	ppbv 99
38) Trichloroethene	7.97	130	866656	9.703	ppbv 94
39) 1,2-Dichloropropane	7.74	63	753933	9.244	ppbv 98
40) 1,4-Dioxane	7.96	88	277875	8.975	ppbv 93
41) Tetrahydrofuran	6.15	42	757632	9.666	ppbv 99
42) Bromodichloromethane	7.92	83	1894344	9.097	ppbv 99
43) Methyl Methacrylate	8.15	69	822153	10.092	ppbv 98

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

44) 2,2,4-Trimethylpentane	8.00	57	3446129	9.373	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1111521	10.961	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1269297	10.966	ppbv	95
47) 1,1,2-Trichloroethane	9.62	97	845772	8.876	ppbv	97
48) Dibromochloromethane	10.46	129	1604869	9.532	ppbv	100
49) Bromoform	13.21	173	1331477	9.052	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	1961304	10.051	ppbv	100
51) 2-Hexanone	10.28	43	1481462	10.492	ppbv #	99
52) Tetrachloroethene	11.38	164	726177	9.462	ppbv	97
53) Toluene	9.96	91	2392039	10.281	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1318218	9.601	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1154045	8.677	ppbv	99
57) Chlorobenzene	12.31	112	1853040	8.625	ppbv	99
58) Ethyl Benzene	12.88	91	3273307	10.072	ppbv	98
59) m/p-Xylene	13.16	91	5589289m	18.591	ppbv	
60) o-Xylene	13.86	91	2667015	9.061	ppbv	99
61) Styrene	13.69	104	1954890	10.409	ppbv	99
62) Isopropylbenzene	14.84	105	3734690	8.916	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	1783615	8.158	ppbv	99
64) n-propylbenzene	15.73	120	959526	9.017	ppbv	99
65) tert-Butylbenzene	16.92	119	3342040	9.008	ppbv	98
66) Benzyl Chloride	17.17	91	1974047	9.335	ppbv	100
67) sec-Butylbenzene	17.47	105	4730934	8.910	ppbv	100
69) p-Isopropyltoluene	17.83	119	4003757	9.291	ppbv	99
70) n-Butylbenzene	18.73	91	4211125	9.721	ppbv	100
71) 2-Chlorotoluene	15.63	91	2796795	9.415	ppbv	98
72) 4-Ethyltoluene	16.01	105	3056063	9.448	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	2943716	9.224	ppbv	100
74) 1,2,4-Trimethylbenzene	16.94	105	3080599	8.716	ppbv	97
75) 1,3-Dichlorobenzene	17.18	146	1781461	8.563	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	1741578	9.189	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	1760064	9.394	ppbv	99
78) Hexachloro-1,3-Butadiene	23.56	225	1098134	7.631	ppbv	99
79) Naphthalene	22.42	128	3671899	12.334	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	873609	9.669	ppbv	98
81) 1,2,4-Trichlorobenzene	22.15	180	1713533	11.914	ppbv	99

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

