

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010419\
 Data File : VL033071.D
 Acq On : 4 Jan 2019 17:06
 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 12:01:17 AM

Quant Time: Jan 05 02:02:20 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	1135221	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2839221	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2915892m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2144912	9.60	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	2564455	12.139	ppbv	99
3) Chlorodifluoromethane	3.02	51	1409454	10.968	ppbv	99
4) Chloromethane	3.17	50	763302	10.371	ppbv	99
5) Vinyl Chloride	3.29	62	788027	10.601	ppbv	98
6) Bromomethane	3.52	94	512811	10.155	ppbv	99
7) Chloroethane	3.60	64	280079	9.635	ppbv	93
8) Dichlorotetrafluoroethane	3.22	85	2029687	11.153	ppbv	100
9) Propene	3.04	41	544053	11.333	ppbv	99
10) Heptane	8.25	43	1330483	9.734	ppbv	99
11) Trichlorofluoromethane	4.01	101	1969147	8.435	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1318717	8.934	ppbv	100
13) Ethanol	3.65	45	146638	7.660	ppbv	94
14) Bromoethene	3.79	108	615308	9.438	ppbv	97
15) Acetone	3.90	43	1258080	8.006	ppbv	100
16) 1,3-Butadiene	3.37	39	618522	10.439	ppbv	93
17) tert-Butyl alcohol	4.36	59	316357	9.504	ppbv	99
18) 1,1-Dichloroethene	4.35	96	602201	8.856	ppbv	98
19) Isopropyl Alcohol	4.02	45	923798	8.540	ppbv	100
20) Methylene Chloride	4.41	84	518552	7.916	ppbv	97
21) Allyl Chloride	4.48	41	931985	9.571	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	590202	8.757	ppbv	98
23) Vinyl Acetate	5.16	43	1868064	9.345	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1452919	8.561	ppbv	100
25) Ethyl Acetate	5.77	43	2293211	8.634	ppbv	99
26) Hexane	5.78	57	1068716	8.546	ppbv	99
27) Carbon Disulfide	4.62	76	1512788	9.808	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1806087	9.252	ppbv	99
29) Chloroform	5.86	83	1856083	8.709	ppbv	99
30) Cyclohexane	7.25	84	927333	9.945	ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	1100791	9.479	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1897285	8.772	ppbv	99
34) 2-Butanone	5.33	43	1434980	8.699	ppbv	100
35) Carbon Tetrachloride	7.14	117	2131426	8.740	ppbv	99
36) Benzene	7.01	78	2168130	9.322	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1425014	8.776	ppbv	100
38) Trichloroethene	7.97	130	923928	9.657	ppbv	98
39) 1,2-Dichloropropane	7.74	63	803589	9.197	ppbv	97
40) 1,4-Dioxane	7.96	88	316824	9.553	ppbv	94
41) Tetrahydrofuran	6.15	42	807339	9.615	ppbv	100
42) Bromodichloromethane	7.92	83	2020390	9.057	ppbv	98
43) Methyl Methacrylate	8.14	69	900952	10.324	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	3692764	9.376	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1219580	11.227	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1407844	11.355	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	937228	9.182	ppbv	98
48) Dibromochloromethane	10.46	129	1773946	9.836	ppbv	100
49) Bromoform	13.21	173	1530870	9.715	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2121500	10.149	ppbv	100
51) 2-Hexanone	10.28	43	1623577	10.735	ppbv #	99
52) Tetrachloroethene	11.38	164	814834	9.912	ppbv	99
53) Toluene	9.95	91	2592591	10.402	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1483261	10.085	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1267407	8.412	ppbv	100
57) Chlorobenzene	12.31	112	2047553	8.413	ppbv	99
58) Ethyl Benzene	12.87	91	3580719	9.726	ppbv	99
59) m/p-Xylene	13.16	91	6095607m	17.898	ppbv	
60) o-Xylene	13.86	91	3009604	9.027	ppbv	100
61) Styrene	13.69	104	2218154	10.427	ppbv	100
62) Isopropylbenzene	14.83	105	4244550	8.946	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2068654	8.353	ppbv	100
64) n-propylbenzene	15.73	120	1080417	8.963	ppbv	98
65) tert-Butylbenzene	16.92	119	3747397	8.916	ppbv	99
66) Benzyl Chloride	17.16	91	2298484	9.595	ppbv	99
67) sec-Butylbenzene	17.47	105	5247846	8.725	ppbv	100
69) p-Isopropyltoluene	17.82	119	4326710	8.863	ppbv	100
70) n-Butylbenzene	18.72	91	4330808	8.825	ppbv	100
71) 2-Chlorotoluene	15.62	91	3141628	9.336	ppbv	99
72) 4-Ethyltoluene	16.01	105	3466709	9.461	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3288817	9.097	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	3410152	8.517	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	1902609	8.073	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	1861702	8.672	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	1799232	8.477	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	991006	6.079	ppbv	100
79) Naphthalene	22.42	128	3226748	9.568	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1237902	12.096	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1488165	9.134	ppbv	99

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

