

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031020\
 Data File : VL034865.D
 Acq On : 10 Mar 2020 13:42
 Operator : SY/AP
 Sample : VL0310ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0310ABS01

Manual Integrations
 APPROVED

MMDadoda
 3/11/2020 3:17:15 PM

Quant Time: Mar 11 06:37:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	888820	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2003603	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2068275	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1638927	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1421735	11.681	ppbv	100
3) Chlorodifluoromethane	2.95	51	929843	9.365	ppbv	99
4) Chloromethane	3.10	50	556402	9.915	ppbv	100
5) Vinyl Chloride	3.22	62	520272	9.644	ppbv	96
6) Bromomethane	3.44	94	313927	9.996	ppbv	98
7) Chloroethane	3.52	64	189114	9.707	ppbv	97
8) Dichlorotetrafluoroethane	3.15	85	1154107	9.130	ppbv	98
9) Propene	2.97	41	434449	9.165	ppbv	100
10) Heptane	8.13	43	1137169	9.747	ppbv	100
11) Trichlorofluoromethane	3.92	101	1185183	9.153	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.46	101	849621	9.375	ppbv	97
13) Ethanol	3.57	45	107948m	7.490	ppbv	
14) Bromoethene	3.71	108	370368	9.463	ppbv	99
15) Acetone	3.82	43	1079536	9.371	ppbv	99
16) 1,3-Butadiene	3.29	39	489023	9.387	ppbv	99
17) tert-Butyl alcohol	4.27	59	869211	7.832	ppbv	100
18) 1,1-Dichloroethene	4.26	96	386976	9.642	ppbv	99
19) Isopropyl Alcohol	3.94	45	573922	7.889	ppbv #	40
20) Methylene Chloride	4.32	84	336929	9.251	ppbv	98
21) Allyl Chloride	4.39	41	699790	9.458	ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	386857	9.501	ppbv	99
23) Vinyl Acetate	5.06	43	1684422	9.898	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1066551	9.349	ppbv	99
25) Ethyl Acetate	5.67	43	1909106	9.302	ppbv	100
26) Hexane	5.68	57	829904	9.390	ppbv	99
27) Carbon Disulfide	4.53	76	960621	9.579	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1355567	9.219	ppbv	100
29) Chloroform	5.75	83	1264689	9.379	ppbv	97
30) Cyclohexane	7.14	84	714956	9.696	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	860398	9.520	ppbv	96
32) 1,1,1-Trichloroethane	6.51	97	1264946	9.627	ppbv	99
34) 2-Butanone	5.23	43	1276459	9.587	ppbv	99
35) Carbon Tetrachloride	7.02	117	1281163	10.281	ppbv	99
36) Benzene	6.90	78	1677329	9.392	ppbv	99
37) 1,2-Dichloroethane	6.31	62	998978	9.920	ppbv	99
38) Trichloroethene	7.85	130	639462	9.428	ppbv	96
39) 1,2-Dichloropropane	7.62	63	669059	9.456	ppbv	97
40) 1,4-Dioxane	7.84	88	235227m	8.803	ppbv	
41) Tetrahydrofuran	6.04	42	719087	9.981	ppbv	100
42) Bromodichloromethane	7.81	83	1350253	9.838	ppbv	99
43) Methyl Methacrylate	8.02	69	769467	10.227	ppbv	99

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

44) 2,2,4-Trimethylpentane	7.88	57	2937322	9.733	ppbv	100
45) t-1,3-Dichloropropene	9.30	75	915803	10.360	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	1069589	10.183	ppbv	98
47) 1,1,2-Trichloroethane	9.50	97	692649	9.539	ppbv	98
48) Dibromochloromethane	10.33	129	1129156	9.602	ppbv	99
49) Bromoform	13.08	173	974107	9.290	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	1881623	9.817	ppbv	100
51) 2-Hexanone	10.15	43	1542236	9.901	ppbv #	99
52) Tetrachloroethene	11.25	164	607470	8.598	ppbv	96
53) Toluene	9.83	91	1966414	9.535	ppbv	99
54) 1,2-Dibromoethane	10.64	107	1040055	9.515	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.16	131	859789	9.254	ppbv	99
57) Chlorobenzene	12.18	112	1455470	8.994	ppbv	96
58) Ethyl Benzene	12.74	91	2618282	9.348	ppbv	97
59) m/p-Xylene	13.03	91	4232371m	18.036	ppbv	
60) o-Xylene	13.73	91	2108627	9.203	ppbv	98
61) Styrene	13.56	104	1567398	9.748	ppbv	100
62) Isopropylbenzene	14.71	105	3118951	9.003	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	1413617	9.088	ppbv	99
64) n-propylbenzene	15.60	120	810384	8.988	ppbv	94
65) tert-Butylbenzene	16.79	119	2703548	8.927	ppbv	99
66) Benzyl Chloride	17.03	91	1312304	10.392	ppbv	98
67) sec-Butylbenzene	17.34	105	3842473	9.150	ppbv	99
69) p-Isopropyltoluene	17.70	119	3236356	9.191	ppbv	100
70) n-Butylbenzene	18.59	91	3365966	9.369	ppbv	99
71) 2-Chlorotoluene	15.49	91	2376901	9.060	ppbv	99
72) 4-Ethyltoluene	15.88	105	2498670	9.235	ppbv	99
73) 1,3,5-Trimethylbenzene	16.04	105	2356281	9.303	ppbv	99
74) 1,2,4-Trimethylbenzene	16.81	105	2426153	9.297	ppbv	96
75) 1,3-Dichlorobenzene	17.04	146	1401982	8.910	ppbv	99
76) 1,4-Dichlorobenzene	17.19	146	1413007	8.999	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	1391797	9.125	ppbv	98
78) Hexachloro-1,3-Butadiene	23.43	225	1228178	9.641	ppbv	99
79) Naphthalene	22.26	128	2490931	12.240	ppbv	99
80) Naphthalene, 2-methyl-	25.02	142	996439	18.736	ppbv	99
81) 1,2,4-Trichlorobenzene	21.99	180	1447654	11.197	ppbv	99

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

