

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101620\
 Data File : VL035784.D
 Acq On : 16 Oct 2020 13:17
 Operator : SY/AP
 Sample : VL1016ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Manual Integrations
 APPROVED

MMDadoda
 10/19/2020 11:09:51 AM

Quant Time: Oct 17 03:31:48 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 2

QLast Update : Wed Sep 23 07:38:05 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1092080	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.18	114	4182380	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.10	117	4449448	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3121004	9.36	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	1371767	7.655	ppbv 99
3) Chlorodifluoromethane	2.98	51	1183156	10.070	ppbv 99
4) Chloromethane	3.13	50	639048	10.125	ppbv 97
5) Vinyl Chloride	3.25	62	747093	10.008	ppbv 99
6) Bromomethane	3.46	94	621918	9.855	ppbv 99
7) Chloroethane	3.55	64	277177	10.124	ppbv 100
8) Dichlorotetrafluoroethane	3.18	85	2050956	9.436	ppbv 99
9) Propene	3.00	41	460612	10.798	ppbv 99
10) Heptane	8.12	43	1334881	11.225	ppbv 100
11) Trichlorofluoromethane	3.94	101	2499610	9.777	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1856944	9.743	ppbv 100
13) Ethanol	3.60	45	103097	9.800	ppbv 99
14) Bromoethene	3.73	108	828740	10.323	ppbv 100
15) Acetone	3.84	43	1043016	8.876	ppbv 99
16) 1,3-Butadiene	3.32	39	478973	11.141	ppbv 98
17) tert-Butyl alcohol	4.29	59	1428357	11.159	ppbv 100
18) 1,1-Dichloroethene	4.28	96	864352	10.358	ppbv 99
19) Isopropyl Alcohol	3.96	45	708000	11.076	ppbv 99
20) Methylene Chloride	4.34	84	713270	8.263	ppbv 98
21) Allyl Chloride	4.40	41	628331	11.031	ppbv 98
22) trans-1,2-Dichloroethene	4.88	96	896378	10.167	ppbv 98
23) Vinyl Acetate	5.07	43	1640147	11.395	ppbv 99
24) 1,1-Dichloroethane	5.01	63	1590504	10.145	ppbv 99
25) Ethyl Acetate	5.67	43	2184567	10.331	ppbv 100
26) Hexane	5.68	57	1196129	10.323	ppbv 98
27) Carbon Disulfide	4.54	76	1929757	11.174	ppbv 100
28) Methyl tert-Butyl Ether	5.03	73	2116786	11.525	ppbv 100
29) Chloroform	5.75	83	2373856	10.088	ppbv 99
30) Cyclohexane	7.13	84	1298879	11.362	ppbv 99
31) cis-1,2-Dichloroethene	5.55	61	1270166	11.356	ppbv 98
32) 1,1,1-Trichloroethane	6.51	97	2313846	11.155	ppbv 100
34) 2-Butanone	5.24	43	1496664	10.819	ppbv 100
35) Carbon Tetrachloride	7.02	117	2372298	10.879	ppbv 99
36) Benzene	6.89	78	2990759	10.974	ppbv 99
37) 1,2-Dichloroethane	6.31	62	1484827	10.454	ppbv 100
38) Trichloroethene	7.84	130	1472682	10.833	ppbv 99
39) 1,2-Dichloropropane	7.62	63	1043367	10.563	ppbv 99
40) 1,4-Dioxane	7.83	88	519074	11.491	ppbv 94
41) Tetrahydrofuran	6.05	42	848209	12.171	ppbv 98
42) Bromodichloromethane	7.79	83	2493009	10.896	ppbv 99
43) Methyl Methacrylate	8.01	69	1267790	11.697	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	4087801	10.453	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	1431045	13.077	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1695694	12.571	ppbv	98
47) 1,1,2-Trichloroethane	9.48	97	1438308	10.166	ppbv	99
48) Dibromochloromethane	10.31	129	2441232	11.337	ppbv	100
49) Bromoform	13.05	173	2163398	11.841	ppbv	100
50) 4-Methyl-2-Pentanone	8.74	43	2224251	11.008	ppbv	99
51) 2-Hexanone	10.14	43	1862925	11.444	ppbv #	99
52) Tetrachloroethene	11.23	164	1395190	10.646	ppbv	99
53) Toluene	9.81	91	3736460	11.627	ppbv	100
54) 1,2-Dibromoethane	10.62	107	2253478	10.637	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.14	131	1876573	10.058	ppbv	97
57) Chlorobenzene	12.16	112	3125873	9.301	ppbv	99
58) Ethyl Benzene	12.72	91	4864909	10.894	ppbv	99
59) m/p-Xylene	13.01	91	8334859m	21.371	ppbv	
60) o-Xylene	13.70	91	4058016	10.286	ppbv	100
61) Styrene	13.54	104	3165615	11.605	ppbv	100
62) Isopropylbenzene	14.68	105	6107850	9.981	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.69	83	2953159	9.129	ppbv	99
64) n-propylbenzene	15.58	120	1858044	10.375	ppbv	97
65) tert-Butylbenzene	16.76	119	5619846	10.101	ppbv	99
66) Benzyl Chloride	17.00	91	2075893	12.315	ppbv	98
67) sec-Butylbenzene	17.31	105	7554901	9.833	ppbv	99
69) p-Isopropyltoluene	17.67	119	6324737	10.119	ppbv	99
70) n-Butylbenzene	18.57	91	6286760	9.767	ppbv	99
71) 2-Chlorotoluene	15.47	91	4674049	10.472	ppbv	99
72) 4-Ethyltoluene	15.85	105	4953152	10.598	ppbv	99
73) 1,3,5-Trimethylbenzene	16.01	105	4593154	10.400	ppbv	96
74) 1,2,4-Trimethylbenzene	16.78	105	4780154	9.602	ppbv	96
75) 1,3-Dichlorobenzene	17.01	146	3135428	9.225	ppbv	99
76) 1,4-Dichlorobenzene	17.16	146	3154424	9.709	ppbv	99
77) 1,2-Dichlorobenzene	17.83	146	3072462	9.570	ppbv	100
78) Hexachloro-1,3-Butadiene	23.40	225	1659151	9.367	ppbv	99
79) Naphthalene	22.22	128	4602790	9.693	ppbv	100
80) Naphthalene, 2-methyl-	24.99	142	1168476	10.433	ppbv	99
81) 1,2,4-Trichlorobenzene	21.95	180	2398755	9.748	ppbv	100

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

