

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\
 Data File : VL034888.D
 Acq On : 16 Mar 2020 13:23
 Operator : SY/AP
 Sample : VL0316ABSD01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0316ABSD01

Manual Integrations
 APPROVED

MMDadoda
 3/17/2020 12:15:43 PM

Quant Time: Mar 17 04:49:20 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	5.65	49	978843	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2159130	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2244342	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1772589	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.01	85	1557248	11.618	ppbv	99
3) Chlorodifluoromethane	2.94	51	1128078	10.317	ppbv	100
4) Chloromethane	3.10	50	644491	10.429	ppbv	96
5) Vinyl Chloride	3.21	62	617571	10.394	ppbv	95
6) Bromomethane	3.44	94	364089	10.527	ppbv	100
7) Chloroethane	3.52	64	231071	10.770	ppbv	95
8) Dichlorotetrafluoroethane	3.15	85	1368137	9.828	ppbv	98
9) Propene	2.96	41	531150	10.174	ppbv	100
10) Heptane	8.12	43	1381361	10.751	ppbv	100
11) Trichlorofluoromethane	3.92	101	1409740	9.886	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1005344	10.073	ppbv	97
13) Ethanol	3.57	45	131048	8.257	ppbv	93
14) Bromoethene	3.70	108	442823	10.273	ppbv	98
15) Acetone	3.82	43	1128630	8.896	ppbv	99
16) 1,3-Butadiene	3.29	39	586176	10.217	ppbv	98
17) tert-Butyl alcohol	4.26	59	957527	7.834	ppbv	99
18) 1,1-Dichloroethene	4.26	96	464736	10.515	ppbv	98
19) Isopropyl Alcohol	3.94	45	678081	8.464	ppbv #	41
20) Methylene Chloride	4.31	84	399599	9.962	ppbv	96
21) Allyl Chloride	4.38	41	815879	10.013	ppbv	100
22) trans-1,2-Dichloroethene	4.86	96	462767	10.320	ppbv	99
23) Vinyl Acetate	5.05	43	1945212	10.380	ppbv	99
24) 1,1-Dichloroethane	4.99	63	1285119	10.229	ppbv	99
25) Ethyl Acetate	5.66	43	2271166	10.048	ppbv	100
26) Hexane	5.67	57	1013287	10.411	ppbv	98
27) Carbon Disulfide	4.52	76	1172032	10.612	ppbv	98
28) Methyl tert-Butyl Ether	5.01	73	1588624	9.810	ppbv	99
29) Chloroform	5.74	83	1523790	10.261	ppbv	100
30) Cyclohexane	7.12	84	844664	10.401	ppbv	98
31) cis-1,2-Dichloroethene	5.53	61	1030341	10.352	ppbv	98
32) 1,1,1-Trichloroethane	6.50	97	1482842	10.248	ppbv	99
34) 2-Butanone	5.22	43	1543311	10.756	ppbv	99
35) Carbon Tetrachloride	7.01	117	1501509	11.181	ppbv	98
36) Benzene	6.89	78	2057749	10.692	ppbv	99
37) 1,2-Dichloroethane	6.30	62	1181135	10.884	ppbv	98
38) Trichloroethene	7.84	130	759606	10.392	ppbv	94
39) 1,2-Dichloropropane	7.61	63	805622	10.565	ppbv	96
40) 1,4-Dioxane	7.83	88	271594	9.431	ppbv #	91
41) Tetrahydrofuran	6.03	42	869930	11.205	ppbv	99
42) Bromodichloromethane	7.80	83	1624879	10.986	ppbv	98
43) Methyl Methacrylate	8.01	69	911684	11.244	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	3480155	10.701	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1053343	11.058	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1234091	10.902	ppbv	96
47) 1,1,2-Trichloroethane	9.48	97	830694	10.616	ppbv	98
48) Dibromochloromethane	10.32	129	1365108	10.772	ppbv	99
49) Bromoform	13.07	173	1223164	10.825	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2276461	11.021	ppbv	99
51) 2-Hexanone	10.14	43	1872820	11.157	ppbv #	100
52) Tetrachloroethene	11.24	164	721461	9.476	ppbv	95
53) Toluene	9.82	91	2360287	10.620	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1254180	10.647	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.14	131	1021604	10.133	ppbv	98
57) Chlorobenzene	12.17	112	1753545	9.986	ppbv	98
58) Ethyl Benzene	12.73	91	3154917	10.380	ppbv	96
59) m/p-Xylene	13.02	91	5213465m	20.475	ppbv	
60) o-Xylene	13.71	91	2565453	10.319	ppbv	99
61) Styrene	13.55	104	1888438	10.823	ppbv	98
62) Isopropylbenzene	14.69	105	3791600	10.086	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.70	83	1821698	10.793	ppbv	100
64) n-propylbenzene	15.59	120	1008368	10.306	ppbv	93
65) tert-Butylbenzene	16.77	119	3312269	10.079	ppbv	97
66) Benzyl Chloride	17.02	91	1351168	9.860	ppbv	97
67) sec-Butylbenzene	17.33	105	4759475	10.445	ppbv	98
69) p-Isopropyltoluene	17.68	119	3961547	10.368	ppbv	98
70) n-Butylbenzene	18.58	91	4212101	10.804	ppbv	99
71) 2-Chlorotoluene	15.48	91	3007530	10.564	ppbv	97
72) 4-Ethyltoluene	15.87	105	3093193	10.535	ppbv	99
73) 1,3,5-Trimethylbenzene	16.02	105	2907766	10.579	ppbv	95
74) 1,2,4-Trimethylbenzene	16.79	105	2988208	10.553	ppbv	95
75) 1,3-Dichlorobenzene	17.03	146	1728083	10.121	ppbv	99
76) 1,4-Dichlorobenzene	17.17	146	1714946	10.065	ppbv	98
77) 1,2-Dichlorobenzene	17.85	146	1683519	10.172	ppbv	99
78) Hexachloro-1,3-Butadiene	23.41	225	1439213	10.411	ppbv	99
79) Naphthalene	22.25	128	2856758	12.936	ppbv	99
80) Naphthalene, 2-methyl-	25.00	142	1203318	20.851	ppbv	99
81) 1,2,4-Trichlorobenzene	21.97	180	1630833	11.624	ppbv	99

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

