

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034049.D
 Acq On : 30 Jul 2019 2:48
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMdadoda
 8/2/2019 9:37:34 AM

Quant Time: Jul 30 05:18:05 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30

QLast Update : Tue Jul 30 05:02:48 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1241801	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	3291544	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	3315852	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2629098	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	427168	1.637 ppbv	96
3) Chlorodifluoromethane	2.99	51	287258	1.844 ppbv	96
4) Chloromethane	3.15	50	163755	1.788 ppbv	96
5) Vinyl Chloride	3.26	62	177261	1.740 ppbv	99
6) Bromomethane	3.48	94	111864	1.810 ppbv	95
7) Chloroethane	3.57	64	70032	1.860 ppbv	99
8) Dichlorotetrafluoroethane	3.19	85	470958	1.817 ppbv	99
9) Propene	3.01	41	104628	1.827 ppbv	99
10) Heptane	8.19	43	295519	2.136 ppbv	99
11) Trichlorofluoromethane	3.97	101	518137	1.721 ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.52	101	399449	1.994 ppbv	100
13) Ethanol	3.62	45	46087	2.561 ppbv	92
14) Bromoethene	3.76	108	146878	1.878 ppbv	98
15) Acetone	3.87	43	378747	1.743 ppbv	98
16) 1,3-Butadiene	3.34	39	136913	1.742 ppbv	97
17) tert-Butyl alcohol	4.33	59	327913	1.981 ppbv	98
18) 1,1-Dichloroethene	4.32	96	179043	1.994 ppbv	96
19) Isopropyl Alcohol	3.99	45	245991m	1.684 ppbv	
20) Methylene Chloride	4.37	84	153196	1.712 ppbv	95
21) Allyl Chloride	4.44	41	263964	2.058 ppbv	99
22) trans-1,2-Dichloroethene	4.92	96	186844	2.185 ppbv	95
23) Vinyl Acetate	5.12	43	445554	2.180 ppbv #	97
24) 1,1-Dichloroethane	5.05	63	386950	2.115 ppbv	99
25) Ethyl Acetate	5.73	43	603535	2.139 ppbv	100
26) Hexane	5.73	57	266336	2.060 ppbv	95
27) Carbon Disulfide	4.58	76	438361	2.014 ppbv	96
28) Methyl tert-Butyl Ether	5.08	73	475286	2.179 ppbv	100
29) Chloroform	5.80	83	500544	2.064 ppbv	99
30) Cyclohexane	7.20	84	227826	2.152 ppbv	86
31) cis-1,2-Dichloroethene	5.60	61	269750	2.169 ppbv	96
32) 1,1,1-Trichloroethane	6.57	97	519655	2.115 ppbv	99
34) 2-Butanone	5.29	43	368474	2.258 ppbv	97
35) Carbon Tetrachloride	7.08	117	534163	2.149 ppbv	94
36) Benzene	6.96	78	552861	2.315 ppbv	98
37) 1,2-Dichloroethane	6.37	62	388810	2.186 ppbv	99
38) Trichloroethene	7.91	130	241328m	2.219 ppbv	
39) 1,2-Dichloropropane	7.69	63	264926	2.935 ppbv	94
40) 1,4-Dioxane	7.92	88	86377m	2.099 ppbv	
41) Tetrahydrofuran	6.11	42	186141	2.350 ppbv	99
42) Bromodichloromethane	7.87	83	516482	2.171 ppbv #	98
43) Methyl Methacrylate	8.09	69	209417	2.317 ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	926460	2.239	ppbv	99
45) t-1,3-Dichloropropene	9.36	75	259888	2.222	ppbv	94
46) cis-1,3-Dichloropropene	8.79	75	298356	2.188	ppbv	97
47) 1,1,2-Trichloroethane	9.56	97	244188	2.175	ppbv	96
48) Dibromochloromethane	10.39	129	441860	1.955	ppbv	99
49) Bromoform	13.14	173	415522	2.268	ppbv	99
50) 4-Methyl-2-Pentanone	8.83	43	536848	2.236	ppbv	100
51) 2-Hexanone	10.23	43	426972	2.080	ppbv #	98
52) Tetrachloroethene	11.32	164	229734	2.187	ppbv	87
53) Toluene	9.89	91	640037	2.354	ppbv	97
54) 1,2-Dibromoethane	10.71	107	364817	2.216	ppbv	91
56) 1,1,1,2-Tetrachloroethane	12.22	131	326849	2.241	ppbv #	1
57) Chlorobenzene	12.24	112	548434	2.111	ppbv	97
58) Ethyl Benzene	12.81	91	887310	2.261	ppbv	98
59) m/p-Xylene	13.09	91	1593531m	4.481	ppbv	
60) o-Xylene	13.79	91	794192	2.226	ppbv	100
61) Styrene	13.63	104	538520	2.296	ppbv	99
62) Isopropylbenzene	14.77	105	1097124m	2.129	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.78	83	570064	2.059	ppbv	99
64) n-propylbenzene	15.67	120	272930	2.048	ppbv	95
65) tert-Butylbenzene	16.85	119	1023765	2.357	ppbv	98
66) Benzyl Chloride	17.10	91	484129	2.204	ppbv	99
67) sec-Butylbenzene	17.40	105	1437622	2.345	ppbv	99
69) p-Isopropyltoluene	17.76	119	1182948	2.346	ppbv	99
70) n-Butylbenzene	18.66	91	1279308	2.411	ppbv	98
71) 2-Chlorotoluene	15.56	91	808063	2.153	ppbv	100
72) 4-Ethyltoluene	15.94	105	925033	2.140	ppbv	100
73) 1,3,5-Trimethylbenzene	16.10	105	925589	2.322	ppbv	93
74) 1,2,4-Trimethylbenzene	16.87	105	1028038	2.329	ppbv #	90
75) 1,3-Dichlorobenzene	17.11	146	630799	2.240	ppbv	99
76) 1,4-Dichlorobenzene	17.25	146	585747m	2.210	ppbv	
77) 1,2-Dichlorobenzene	17.93	146	578195m	2.222	ppbv	
78) Hexachloro-1,3-Butadiene	23.50	225	557121m	2.453	ppbv	
79) Naphthalene	22.34	128	926292	2.492	ppbv	95
80) Naphthalene, 2-methyl-	25.07	142	315674	2.346	ppbv	99
81) 1,2,4-Trichlorobenzene	22.06	180	596910	2.484	ppbv	100

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

