

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033661.D
 Acq On : 6 May 2019 15:40
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050619

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:06:36 PM

Quant Time: May 07 04:16:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1044873	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2680963	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2847512m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2376554	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	1771286	7.228 ppbv	99
3) Chlorodifluoromethane	3.01	51	1252293	8.299 ppbv	97
4) Chloromethane	3.17	50	728072	9.281 ppbv	99
5) Vinyl Chloride	3.29	62	717327	9.405 ppbv	97
6) Bromomethane	3.52	94	434467	8.967 ppbv	96
7) Chloroethane	3.60	64	251431	9.081 ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1802775	8.937 ppbv	99
9) Propene	3.03	41	569696	9.903 ppbv	98
10) Heptane	8.25	43	1688884	11.896 ppbv	99
11) Trichlorofluoromethane	4.00	101	2009739	8.782 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1326136	8.620 ppbv	99
13) Ethanol	3.65	45	124758	7.225 ppbv	97
14) Bromoethene	3.79	108	562132	9.270 ppbv	99
15) Acetone	3.90	43	1265577	8.142 ppbv	99
16) 1,3-Butadiene	3.36	39	649027	9.736 ppbv	97
17) tert-Butyl alcohol	4.35	59	1161251	9.836 ppbv	99
18) 1,1-Dichloroethene	4.35	96	597115	8.990 ppbv	99
19) Isopropyl Alcohol	4.02	45	925277	9.689 ppbv	# 97
20) Methylene Chloride	4.41	84	511363	8.664 ppbv	96
21) Allyl Chloride	4.48	41	897677	9.541 ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	634130	9.510 ppbv	98
23) Vinyl Acetate	5.15	43	2146209	10.626 ppbv	99
24) 1,1-Dichloroethane	5.09	63	1438624	9.415 ppbv	99
25) Ethyl Acetate	5.77	43	2452528	9.698 ppbv	99
26) Hexane	5.78	57	1074402	9.883 ppbv	99
27) Carbon Disulfide	4.62	76	1492546	10.038 ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1908133	10.422 ppbv	100
29) Chloroform	5.85	83	1821390	9.319 ppbv	98
30) Cyclohexane	7.25	84	992913	10.876 ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1152788	10.660 ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1871416	9.272 ppbv	99
34) 2-Butanone	5.33	43	1681387	9.794 ppbv	99
35) Carbon Tetrachloride	7.13	117	2025727	9.194 ppbv	100
36) Benzene	7.00	78	2392896	9.954 ppbv	99
37) 1,2-Dichloroethane	6.41	62	1417985	8.454 ppbv	99
38) Trichloroethene	7.96	130	1029541	11.675 ppbv	95
39) 1,2-Dichloropropane	7.74	63	883373	9.859 ppbv	97
40) 1,4-Dioxane	7.96	88	404588	11.299 ppbv	89
41) Tetrahydrofuran	6.15	42	933152	10.518 ppbv	99
42) Bromodichloromethane	7.92	83	2094564	9.671 ppbv	99
43) Methyl Methacrylate	8.14	69	1113787	12.317 ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	4358761	10.604	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1371772	12.360	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1651496	11.923	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	1035053	10.060	ppbv	97
48) Dibromochloromethane	10.45	129	1769325	10.144	ppbv	99
49) Bromoform	13.20	173	1731325	11.427	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2766529	10.642	ppbv	100
51) 2-Hexanone	10.27	43	2225963	11.053	ppbv	99
52) Tetrachloroethene	11.37	164	883399	10.372	ppbv	99
53) Toluene	9.95	91	2904326	11.182	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1558586	10.056	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1188075	9.045	ppbv	96
57) Chlorobenzene	12.30	112	2119680	9.066	ppbv	99
58) Ethyl Benzene	12.87	91	4252499	11.452	ppbv	99
59) m/p-Xylene	13.15	91	7046679m	21.545	ppbv	
60) o-Xylene	13.85	91	3418536	10.328	ppbv	99
61) Styrene	13.68	104	2652926	12.036	ppbv	100
62) Isopropylbenzene	14.82	105	4585022	10.145	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2312381	9.599	ppbv	100
64) n-propylbenzene	15.72	120	1182830	10.127	ppbv	100
65) tert-Butylbenzene	16.91	119	4040752	9.746	ppbv	100
66) Benzyl Chloride	17.15	91	2231151	11.830	ppbv	100
67) sec-Butylbenzene	17.46	105	5617389	9.711	ppbv	99
69) p-Isopropyltoluene	17.81	119	4778247	10.026	ppbv	100
70) n-Butylbenzene	18.71	91	4959701	9.813	ppbv	100
71) 2-Chlorotoluene	15.61	91	3444892	10.317	ppbv	100
72) 4-Ethyltoluene	16.00	105	4014290	10.318	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3734118	9.926	ppbv	95
74) 1,2,4-Trimethylbenzene	16.93	105	3896411	9.318	ppbv	98
75) 1,3-Dichlorobenzene	17.16	146	2306812	9.133	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	2305282	9.618	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	2198570	9.396	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1992771	10.746	ppbv	100
79) Naphthalene	22.41	128	4598556	12.045	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	2333662	16.169	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	2343478	10.565	ppbv	99

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

