

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050119\
 Data File : VL033621.D
 Acq On : 1 May 2019 17:26
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050119

Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 4:04:22 PM

Quant Time: May 02 06:41:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 02 06:41:08 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1167323	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2846278	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3102669m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2356855	9.98	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1696371	9.643	ppbv	99
3) Chlorodifluoromethane	3.01	51	1251544	8.967	ppbv	99
4) Chloromethane	3.17	50	705083	9.275	ppbv	99
5) Vinyl Chloride	3.29	62	693995	8.701	ppbv	100
6) Bromomethane	3.51	94	446658	9.516	ppbv	96
7) Chloroethane	3.60	64	262084	9.857	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	1763605	9.215	ppbv	100
9) Propene	3.03	41	556928	13.936	ppbv	84
10) Heptane	8.24	43	1473875	9.974	ppbv	99
11) Trichlorofluoromethane	4.00	101	2017359	9.648	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1433529	9.996	ppbv	100
13) Ethanol	3.64	45	131922	7.281	ppbv	98
14) Bromoethene	3.78	108	577376	9.809	ppbv	99
15) Acetone	3.90	43	1243161	8.748	ppbv	99
16) 1,3-Butadiene	3.36	39	623297	9.745	ppbv	100
17) tert-Butyl alcohol	4.35	59	1120230	9.129	ppbv	99
18) 1,1-Dichloroethene	4.35	96	616644	9.895	ppbv	96
19) Isopropyl Alcohol	4.02	45	869202	8.911	ppbv	100
20) Methylene Chloride	4.41	84	508589	9.183	ppbv	93
21) Allyl Chloride	4.47	41	899224	10.059	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	654626	10.725	ppbv	97
23) Vinyl Acetate	5.15	43	2166795	10.253	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1499299	9.530	ppbv	99
25) Ethyl Acetate	5.76	43	2498695	9.264	ppbv	100
26) Hexane	5.78	57	1101130	9.695	ppbv	98
27) Carbon Disulfide	4.62	76	1583431	11.512	ppbv	98
28) Methyl tert-Butyl Ether	5.11	73	1951993	10.192	ppbv	99
29) Chloroform	5.85	83	1880084	9.032	ppbv	98
30) Cyclohexane	7.24	84	982828	10.222	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1155001	10.076	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1969594	9.040	ppbv	100
34) 2-Butanone	5.33	43	1672216	9.570	ppbv	100
35) Carbon Tetrachloride	7.13	117	2085932	9.251	ppbv	100
36) Benzene	7.00	78	2394857	9.875	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1466324	9.099	ppbv	99
38) Trichloroethene	7.96	130	925231	9.566	ppbv	98
39) 1,2-Dichloropropane	7.73	63	879685	9.619	ppbv	96
40) 1,4-Dioxane	7.95	88	351705	9.465	ppbv	88
41) Tetrahydrofuran	6.15	42	947793	10.157	ppbv	99
42) Bromodichloromethane	7.91	83	2067250	9.479	ppbv	99
43) Methyl Methacrylate	8.13	69	942072	10.258	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3930018	9.299	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1290454	10.580	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	1458423	10.601	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	982358	8.236	ppbv	99
48) Dibromochloromethane	10.45	129	1774257	8.795	ppbv	99
49) Bromoform	13.20	173	1586457	10.265	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	2573616	9.400	ppbv	100
51) 2-Hexanone	10.26	43	2124259	8.837	ppbv #	100
52) Tetrachloroethene	11.37	164	907368	9.731	ppbv	96
53) Toluene	9.94	91	2762618	9.027	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1559928	9.508	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1191804	8.918	ppbv #	56
57) Chlorobenzene	12.30	112	2109444	8.859	ppbv	95
58) Ethyl Benzene	12.86	91	3831590	10.725	ppbv	100
59) m/p-Xylene	13.15	91	6329047m	20.592	ppbv	
60) o-Xylene	13.85	91	3159127	10.175	ppbv	100
61) Styrene	13.68	104	2404852	11.332	ppbv	100
62) Isopropylbenzene	14.82	105	4251272	10.246	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2168669	8.948	ppbv	99
64) n-propylbenzene	15.72	120	1101755	10.237	ppbv	99
65) tert-Butylbenzene	16.91	119	3897323	10.044	ppbv	99
66) Benzyl Chloride	17.15	91	2097787	11.921	ppbv	100
67) sec-Butylbenzene	17.45	105	5465182	10.029	ppbv	100
69) p-Isopropyltoluene	17.81	119	4620128	10.191	ppbv	100
70) n-Butylbenzene	18.71	91	4882228	9.895	ppbv	100
71) 2-Chlorotoluene	15.61	91	3243551	10.452	ppbv	100
72) 4-Ethyltoluene	16.00	105	3776987	10.680	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3585136	10.309	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	3764126	9.704	ppbv	96
75) 1,3-Dichlorobenzene	17.16	146	2212659	9.163	ppbv	100
76) 1,4-Dichlorobenzene	17.30	146	2214141	9.617	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	2157825	9.606	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1807390	10.523	ppbv	99
79) Naphthalene	22.41	128	3957143	11.062	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1919503	12.378	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	2124690	10.242	ppbv	99

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

