

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051719\
 Data File : VL033707.D
 Acq On : 17 May 2019 7:10
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051719

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 12:05:30 PM

Quant Time: May 17 08:33:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 2019
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1208827	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2903982	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3068776m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2385561	9.59	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	2322934	9.118 ppbv	99
3) Chlorodifluoromethane	3.01	51	1349709	9.748 ppbv	98
4) Chloromethane	3.17	50	758347	9.575 ppbv	99
5) Vinyl Chloride	3.29	62	749219	9.287 ppbv	99
6) Bromomethane	3.51	94	489498	9.944 ppbv	99
7) Chloroethane	3.60	64	286477	9.992 ppbv	94
8) Dichlorotetrafluoroethane	3.22	85	1884796	9.177 ppbv	99
9) Propene	3.04	41	588511	9.993 ppbv	100
10) Heptane	8.25	43	1512937	9.072 ppbv	99
11) Trichlorofluoromethane	4.00	101	2205520	9.071 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1501759	8.845 ppbv	99
13) Ethanol	3.65	45	136063	7.148 ppbv	98
14) Bromoethene	3.79	108	622019	9.965 ppbv	99
15) Acetone	3.90	43	1390000	8.288 ppbv	99
16) 1,3-Butadiene	3.36	39	655173	9.810 ppbv	99
17) tert-Butyl alcohol	4.36	59	1236009	9.114 ppbv	100
18) 1,1-Dichloroethene	4.35	96	666036	9.294 ppbv	99
19) Isopropyl Alcohol	4.02	45	952779	8.811 ppbv	100
20) Methylene Chloride	4.41	84	555318	8.600 ppbv	97
21) Allyl Chloride	4.48	41	981536	9.383 ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	722522	9.836 ppbv	90
23) Vinyl Acetate	5.16	43	2286886	10.341 ppbv	99
24) 1,1-Dichloroethane	5.09	63	1582682	9.415 ppbv	98
25) Ethyl Acetate	5.77	43	2684060	9.110 ppbv	99
26) Hexane	5.78	57	1177315	9.295 ppbv	99
27) Carbon Disulfide	4.62	76	1725633	9.931 ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	2109334	10.215 ppbv	100
29) Chloroform	5.85	83	1996371	8.557 ppbv	99
30) Cyclohexane	7.25	84	993289	9.328 ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1238961	9.865 ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	2086676	8.957 ppbv	99
34) 2-Butanone	5.33	43	1795833	9.977 ppbv	99
35) Carbon Tetrachloride	7.13	117	2179691	9.370 ppbv	99
36) Benzene	7.01	78	2532523	9.587 ppbv	99
37) 1,2-Dichloroethane	6.42	62	1522173	8.933 ppbv	99
38) Trichloroethene	7.96	130	1000628	10.208 ppbv	99
39) 1,2-Dichloropropane	7.74	63	931812	9.461 ppbv	99
40) 1,4-Dioxane	7.95	88	372757	9.048 ppbv	# 99
41) Tetrahydrofuran	6.15	42	1016719	10.081 ppbv	99
42) Bromodichloromethane	7.92	83	2176219	9.329 ppbv	96
43) Methyl Methacrylate	8.14	69	985588	10.138 ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	4092747	9.167	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1363324	11.062	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	1538846	10.663	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	1037017	9.269	ppbv	98
48) Dibromochloromethane	10.45	129	1876557	9.680	ppbv	100
49) Bromoform	13.20	173	1624102	9.957	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2619085	9.460	ppbv	99
51) 2-Hexanone	10.27	43	2170615	10.045	ppbv	100
52) Tetrachloroethene	11.37	164	948551	10.215	ppbv	98
53) Toluene	9.95	91	2916587	10.236	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1624318	9.513	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	1227596	8.645	ppbv	96
57) Chlorobenzene	12.30	112	2191574	8.676	ppbv	100
58) Ethyl Benzene	12.86	91	3937967	9.690	ppbv	100
59) m/p-Xylene	13.15	91	6503177m	18.306	ppbv	
60) o-Xylene	13.85	91	3200292	8.937	ppbv	100
61) Styrene	13.69	104	2468093	10.237	ppbv	99
62) Isopropylbenzene	14.82	105	4316437	8.950	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2163017	8.306	ppbv	100
64) n-propylbenzene	15.72	120	1116978	8.954	ppbv	98
65) tert-Butylbenzene	16.91	119	3870591	8.791	ppbv	100
66) Benzyl Chloride	17.15	91	2164476	10.321	ppbv	100
67) sec-Butylbenzene	17.46	105	5394125	8.753	ppbv	100
69) p-Isopropyltoluene	17.81	119	4536895	8.907	ppbv	100
70) n-Butylbenzene	18.71	91	4713546	8.629	ppbv	100
71) 2-Chlorotoluene	15.61	91	3257588	9.105	ppbv	100
72) 4-Ethyltoluene	16.00	105	3798033	9.276	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3569075	8.934	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	3728565	8.576	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	2188063	8.213	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	2181691	8.616	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	2103291	8.402	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1527312	8.069	ppbv	99
79) Naphthalene	22.41	128	4324272m	10.708	ppbv	
80) Naphthalene, 2-methyl-	25.11	142	1838962	11.985	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	2189724	9.260	ppbv	100

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

