

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052919\
 Data File : VL033840.D
 Acq On : 29 May 2019 16:31
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

apatel
 5/31/2019 12:45:08 PM

Quant Time: May 30 02:18:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 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	756427	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1877870	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2016520m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1544668	9.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.07	85	1193166	7.485	ppbv 100
3) Chlorodifluoromethane	3.01	51	948792	10.950	ppbv 100
4) Chloromethane	3.17	50	546127	11.020	ppbv 96
5) Vinyl Chloride	3.29	62	552229	10.939	ppbv 99
6) Bromomethane	3.51	94	340384	11.050	ppbv 100
7) Chloroethane	3.60	64	204506	11.399	ppbv 99
8) Dichlorotetrafluoroethane	3.22	85	1406888	10.947	ppbv 99
9) Propene	3.03	41	416995	11.315	ppbv 99
10) Heptane	8.24	43	1061613	10.172	ppbv 100
11) Trichlorofluoromethane	4.00	101	1605461	10.552	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1096289	10.318	ppbv 98
13) Ethanol	3.64	45	94548	7.937	ppbv 100
14) Bromoethene	3.78	108	453875	11.620	ppbv 99
15) Acetone	3.89	43	994406	9.475	ppbv 100
16) 1,3-Butadiene	3.36	39	488812	11.696	ppbv 99
17) tert-Butyl alcohol	4.35	59	1010033	11.902	ppbv 100
18) 1,1-Dichloroethene	4.35	96	481392	10.735	ppbv 97
19) Isopropyl Alcohol	4.02	45	756925	11.186	ppbv 99
20) Methylene Chloride	4.40	84	411721	10.189	ppbv 97
21) Allyl Chloride	4.47	41	704432	10.761	ppbv 100
22) trans-1,2-Dichloroethene	4.96	96	501830	10.917	ppbv 96
23) Vinyl Acetate	5.15	43	1569074	11.339	ppbv 98
24) 1,1-Dichloroethane	5.09	63	1102787	10.484	ppbv 99
25) Ethyl Acetate	5.76	43	1883108	10.214	ppbv 100
26) Hexane	5.77	57	826618	10.429	ppbv 99
27) Carbon Disulfide	4.61	76	1197720	11.015	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1465114	11.339	ppbv 99
29) Chloroform	5.84	83	1442416	9.880	ppbv 98
30) Cyclohexane	7.24	84	709110	10.642	ppbv 99
31) cis-1,2-Dichloroethene	5.63	61	855012	10.880	ppbv 97
32) 1,1,1-Trichloroethane	6.61	97	1542234	10.580	ppbv 100
34) 2-Butanone	5.32	43	1238565	10.641	ppbv 99
35) Carbon Tetrachloride	7.13	117	1615079	10.737	ppbv 98
36) Benzene	7.00	78	1820442	10.657	ppbv 100
37) 1,2-Dichloroethane	6.41	62	1110867	10.081	ppbv 100
38) Trichloroethene	7.95	130	704989	11.122	ppbv 97
39) 1,2-Dichloropropane	7.73	63	659787	10.360	ppbv 99
40) 1,4-Dioxane	7.95	88	260721	9.786	ppbv # 100
41) Tetrahydrofuran	6.14	42	707359	10.846	ppbv 100
42) Bromodichloromethane	7.91	83	1566011	10.381	ppbv 99
43) Methyl Methacrylate	8.13	69	688898	10.958	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	2931465	10.154	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	924625	11.602	ppbv	100
46) cis-1,3-Dichloropropene	8.83	75	1052091	11.274	ppbv	96
47) 1,1,2-Trichloroethane	9.61	97	716827	9.908	ppbv	96
48) Dibromochloromethane	10.45	129	1333759	10.639	ppbv	99
49) Bromoform	13.20	173	1242708	11.781	ppbv	100
50) 4-Methyl-2-Pentanone	8.86	43	1857867	10.377	ppbv	99
51) 2-Hexanone	10.26	43	1543261	11.044	ppbv #	99
52) Tetrachloroethene	11.37	164	681479	11.349	ppbv	98
53) Toluene	9.94	91	2028670	11.011	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1147633	10.394	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.27	131	910287	9.755	ppbv	98
57) Chlorobenzene	12.30	112	1611538	9.709	ppbv	100
58) Ethyl Benzene	12.86	91	2930297	10.973	ppbv	100
59) m/p-Xylene	13.14	91	4853967m	20.794	ppbv	
60) o-Xylene	13.84	91	2427656	10.317	ppbv	99
61) Styrene	13.68	104	1816697	11.467	ppbv	100
62) Isopropylbenzene	14.82	105	3254040	10.268	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1706114	9.970	ppbv	99
64) n-propylbenzene	15.72	120	850342	10.374	ppbv	98
65) tert-Butylbenzene	16.90	119	2936295	10.148	ppbv	100
66) Benzyl Chloride	17.15	91	1470852	10.673	ppbv	100
67) sec-Butylbenzene	17.45	105	4087688	10.094	ppbv	99
69) p-Isopropyltoluene	17.81	119	3472483	10.374	ppbv	99
70) n-Butylbenzene	18.71	91	3639655	10.140	ppbv	99
71) 2-Chlorotoluene	15.61	91	2458207	10.455	ppbv	100
72) 4-Ethyltoluene	15.99	105	2918284	10.847	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	2781086	10.594	ppbv	100
74) 1,2,4-Trimethylbenzene	16.92	105	2821165	9.875	ppbv	96
75) 1,3-Dichlorobenzene	17.16	146	1626084	9.288	ppbv	100
76) 1,4-Dichlorobenzene	17.30	146	1615892	9.711	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	1601204	9.734	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	916484	7.369	ppbv	99
79) Naphthalene	22.40	128	2214262	8.344	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	801276	7.947	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	1295352	8.336	ppbv	99

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

