

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033660.D
 Acq On : 6 May 2019 14:51
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:06:31 PM

Quant Time: May 06 15:21:00 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 12:00:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	960000	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2431301	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2622260	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2353522	11.24	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	112.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	2137151	13.350	ppbv 100
3) Chlorodifluoromethane	3.01	51	1681271	14.528	ppbv 98
4) Chloromethane	3.17	50	980472	15.378	ppbv 99
5) Vinyl Chloride	3.29	62	953520	14.376	ppbv 100
6) Bromomethane	3.51	94	599100	15.198	ppbv 99
7) Chloroethane	3.60	64	353951	15.972	ppbv 98
8) Dichlorotetrafluoroethane	3.22	85	2550588	15.796	ppbv 100
9) Propene	3.04	41	740286	18.375	ppbv 99
10) Heptane	8.25	43	2019700	16.466	ppbv 99
11) Trichlorofluoromethane	4.00	101	2777381	15.590	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1882237	15.383	ppbv 100
13) Ethanol	3.65	45	174473	11.722	ppbv 99
14) Bromoethene	3.79	108	797954	16.096	ppbv 99
15) Acetone	3.90	43	1766574	14.618	ppbv 99
16) 1,3-Butadiene	3.36	39	872063	16.208	ppbv 99
17) tert-Butyl alcohol	4.35	59	1384517	13.623	ppbv 100
18) 1,1-Dichloroethene	4.35	96	812971	15.310	ppbv 98
19) Isopropyl Alcohol	4.02	45	1144129	14.176	ppbv 100
20) Methylene Chloride	4.41	84	700673	14.823	ppbv 98
21) Allyl Chloride	4.48	41	1234347	16.311	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	866575	16.529	ppbv 99
23) Vinyl Acetate	5.16	43	2828083	16.149	ppbv 100
24) 1,1-Dichloroethane	5.09	63	1921931	14.673	ppbv 99
25) Ethyl Acetate	5.77	43	3282723	14.689	ppbv 100
26) Hexane	5.78	57	1453103	15.368	ppbv 100
27) Carbon Disulfide	4.62	76	2120928	18.063	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	2448228	15.410	ppbv 99
29) Chloroform	5.85	83	2475811	14.316	ppbv 100
30) Cyclohexane	7.25	84	1346166	16.793	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	1520396	15.960	ppbv 98
32) 1,1,1-Trichloroethane	6.62	97	2641947	14.581	ppbv 99
34) 2-Butanone	5.33	43	2219631	14.758	ppbv 99
35) Carbon Tetrachloride	7.14	117	2928165	15.005	ppbv 99
36) Benzene	7.01	78	3163845	15.028	ppbv 99
37) 1,2-Dichloroethane	6.42	62	1974459	14.129	ppbv 100
38) Trichloroethene	7.96	130	1317188	15.750	ppbv 98
39) 1,2-Dichloropropane	7.74	63	1192697	15.114	ppbv 98
40) 1,4-Dioxane	7.95	88	483525	15.259	ppbv 97
41) Tetrahydrofuran	6.15	42	1249868	15.484	ppbv 99
42) Bromodichloromethane	7.92	83	2904790	15.338	ppbv 98
43) Methyl Methacrylate	8.14	69	1317589	16.598	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	5416655	14.807	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1882995	18.383	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	2038071	17.192	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1376298	14.750	ppbv	98
48) Dibromochloromethane	10.45	129	2576074	16.438	ppbv	100
49) Bromoform	13.21	173	2308958	17.174	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	3543659	15.024	ppbv	100
51) 2-Hexanone	10.27	43	3034634	16.387	ppbv #	99
52) Tetrachloroethene	11.38	164	1249479	15.669	ppbv	96
53) Toluene	9.95	91	3864664	16.268	ppbv	99
54) 1,2-Dibromoethane	10.76	107	2203326	15.804	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	1682666	14.654	ppbv #	76
57) Chlorobenzene	12.30	112	2936333	14.355	ppbv	98
58) Ethyl Benzene	12.87	91	5314504	16.144	ppbv	98
59) m/p-Xylene	13.15	91	8828654m	31.156	ppbv	
60) o-Xylene	13.85	91	4473593	15.672	ppbv	99
61) Styrene	13.69	104	3418573	17.459	ppbv	100
62) Isopropylbenzene	14.83	105	6796447	17.868	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	3098413	14.343	ppbv	100
64) n-propylbenzene	15.72	120	1794725	18.141	ppbv	97
65) tert-Butylbenzene	16.91	119	6106176	17.150	ppbv	99
66) Benzyl Chloride	17.16	91	3305481	20.134	ppbv	100
67) sec-Butylbenzene	17.46	105	8044927	16.114	ppbv	99
69) p-Isopropyltoluene	17.82	119	6860643	16.513	ppbv	100
70) n-Butylbenzene	18.71	91	6896167	15.228	ppbv	99
71) 2-Chlorotoluene	15.62	91	5177579	18.136	ppbv	99
72) 4-Ethyltoluene	16.00	105	6094442	18.654	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	5749815	17.962	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	5872611	16.542	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	3298805	14.976	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	3306939	15.741	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	3218370	15.692	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	2843621	18.171	ppbv	99
79) Naphthalene	22.41	128	6241473	18.838	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	3054839	21.727	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	3345553	17.524	ppbv	99

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

