

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051719\
 Data File : VL033706.D
 Acq On : 17 May 2019 5:53
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 12:05:25 PM

Quant Time: May 17 08:04:23 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 07:07:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	906328	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2627268	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2918888	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2268330	9.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	2803027	13.530	ppbv	99
3) Chlorodifluoromethane	3.01	51	1522364	11.707	ppbv	98
4) Chloromethane	3.17	50	857141	12.670	ppbv	98
5) Vinyl Chloride	3.29	62	873188	13.254	ppbv	98
6) Bromomethane	3.51	94	550859	13.135	ppbv	99
7) Chloroethane	3.60	64	321605	13.417	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	2228553	12.841	ppbv	100
9) Propene	3.04	41	674798	13.556	ppbv	98
10) Heptane	8.25	43	2192447	17.773	ppbv	100
11) Trichlorofluoromethane	4.00	101	2632367	13.199	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1791396	13.318	ppbv	100
13) Ethanol	3.65	45	157880	10.414	ppbv	100
14) Bromoethene	3.79	108	705803	13.595	ppbv	100
15) Acetone	3.90	43	1673105	12.330	ppbv	99
16) 1,3-Butadiene	3.36	39	796053	13.980	ppbv	99
17) tert-Butyl alcohol	4.36	59	1367878	13.102	ppbv	100
18) 1,1-Dichloroethene	4.35	96	782236	13.504	ppbv	94
19) Isopropyl Alcohol	4.03	45	1086363	12.823	ppbv	100
20) Methylene Chloride	4.41	84	657391	12.814	ppbv	98
21) Allyl Chloride	4.48	41	1177889	14.291	ppbv	100
22) trans-1,2-Dichloroethene	4.97	96	811561	14.126	ppbv	96
23) Vinyl Acetate	5.16	43	2530413	14.466	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1746940	13.221	ppbv	99
25) Ethyl Acetate	5.77	43	3101243	14.033	ppbv	99
26) Hexane	5.78	57	1369431	14.410	ppbv	100
27) Carbon Disulfide	4.62	76	2010057	15.407	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	2241512	14.121	ppbv	100
29) Chloroform	5.85	83	2794942	16.395	ppbv	98
30) Cyclohexane	7.25	84	1444335	18.204	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1433376	15.345	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	2900501	16.533	ppbv	100
34) 2-Butanone	5.33	43	2003366	11.884	ppbv	100
35) Carbon Tetrachloride	7.14	117	3141673	14.532	ppbv	99
36) Benzene	7.01	78	3485976	14.685	ppbv	99
37) 1,2-Dichloroethane	6.42	62	2180055	13.174	ppbv	100
38) Trichloroethene	7.96	130	1402689	16.195	ppbv	97
39) 1,2-Dichloropropane	7.74	63	1300829	14.702	ppbv	96
40) 1,4-Dioxane	7.96	88	525288	14.672	ppbv #	99
41) Tetrahydrofuran	6.15	42	1397221	15.836	ppbv	99
42) Bromodichloromethane	7.92	83	3135468	14.743	ppbv	96
43) Methyl Methacrylate	8.14	69	1416704	15.903	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	5811171	14.339	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1973982	17.938	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	2190967	16.017	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	1484785	14.613	ppbv	97
48) Dibromochloromethane	10.45	129	2779248	16.094	ppbv	99
49) Bromoform	13.21	173	2494987	16.889	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	3783217	14.802	ppbv	99
51) 2-Hexanone	10.27	43	3185024	16.005	ppbv #	100
52) Tetrachloroethene	11.38	164	1340273	15.918	ppbv	98
53) Toluene	9.95	91	4154497	16.149	ppbv	100
54) 1,2-Dibromoethane	10.76	107	2389134	15.571	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1843642	13.582	ppbv #	76
57) Chlorobenzene	12.30	112	3202998	13.235	ppbv	99
58) Ethyl Benzene	12.87	91	5702412	14.834	ppbv	100
59) m/p-Xylene	13.15	91	9549231m	28.194	ppbv	
60) o-Xylene	13.85	91	4815774	14.088	ppbv	99
61) Styrene	13.69	104	3690204	16.172	ppbv	100
62) Isopropylbenzene	14.83	105	6560304	14.028	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	3356400	13.535	ppbv	100
64) n-propylbenzene	15.73	120	1739977	14.425	ppbv	96
65) tert-Butylbenzene	16.91	119	5904865	13.769	ppbv	100
66) Benzyl Chloride	17.16	91	3462694	17.638	ppbv	99
67) sec-Butylbenzene	17.46	105	8197568	13.731	ppbv	99
69) p-Isopropyltoluene	17.82	119	7001600	14.218	ppbv	100
70) n-Butylbenzene	18.71	91	7428221	14.275	ppbv	99
71) 2-Chlorotoluene	15.62	91	5020756	14.547	ppbv	99
72) 4-Ethyltoluene	16.00	105	5815207	14.487	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	5517335	14.234	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	5715024	13.226	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	3386091	13.019	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	3419836	13.856	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	3275090	13.566	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	2255882	11.783	ppbv	99
79) Naphthalene	22.41	128	6036994	15.291	ppbv	100
80) Naphthalene, 2-methyl-	25.11	142	2633981	17.474	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	3248667	14.150	ppbv	100

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

