

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020519\
 Data File : VL033175.D
 Acq On : 6 Feb 2019 5:42
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 2/20/2019 12:21:45 PM

Quant Time: Feb 20 06:01:06 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 20 2019

QLast Update : Wed Feb 20 05:04:48 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	874722	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2634827	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2731871	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2046404	9.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.10%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	2359990	14.112	ppbv	97
3) Chlorodifluoromethane	3.01	51	1501868	14.260	ppbv	99
4) Chloromethane	3.17	50	805868	14.490	ppbv	99
5) Vinyl Chloride	3.29	62	785398	13.514	ppbv	96
6) Bromomethane	3.52	94	465483	14.584	ppbv	99
7) Chloroethane	3.60	64	279795	14.738	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	1770063	13.533	ppbv	100
9) Propene	3.04	41	710356	13.962	ppbv	99
10) Heptane	8.25	43	2166858	14.077	ppbv	99
11) Trichlorofluoromethane	4.00	101	1959057	14.470	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1312243	13.985	ppbv	99
13) Ethanol	3.65	45	154333m	9.096	ppbv	
14) Bromoethene	3.79	108	588875	14.555	ppbv	99
15) Acetone	3.90	43	1324952	13.445	ppbv	99
16) 1,3-Butadiene	3.36	39	666803	14.254	ppbv	97
17) tert-Butyl alcohol	4.36	59	239685	12.757	ppbv	100
18) 1,1-Dichloroethene	4.35	96	606901	14.449	ppbv	97
19) Isopropyl Alcohol	4.02	45	825823	12.356	ppbv	99
20) Methylene Chloride	4.41	84	517596	13.204	ppbv	95
21) Allyl Chloride	4.48	41	979064	15.046	ppbv	100
22) trans-1,2-Dichloroethene	4.97	96	613019	15.028	ppbv	95
23) Vinyl Acetate	5.16	43	2537769	14.858	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1698810	14.062	ppbv	99
25) Ethyl Acetate	5.77	43	2880484	13.000	ppbv	100
26) Hexane	5.78	57	1304325	12.539	ppbv	99
27) Carbon Disulfide	4.62	76	1549475	16.260	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	2005192	14.107	ppbv	100
29) Chloroform	5.85	83	2151195	13.495	ppbv	99
30) Cyclohexane	7.25	84	1422214	14.736	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	1428661	13.722	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	2535489	14.445	ppbv	99
34) 2-Butanone	5.33	43	2014071	12.051	ppbv	99
35) Carbon Tetrachloride	7.14	117	2619475	13.018	ppbv	97
36) Benzene	7.01	78	3476616	13.019	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1988231	13.435	ppbv	99
38) Trichloroethene	7.97	130	1233029	10.782	ppbv	97
39) 1,2-Dichloropropane	7.74	63	1325220	12.566	ppbv	99
40) 1,4-Dioxane	7.96	88	409914	10.695	ppbv	86
41) Tetrahydrofuran	6.15	42	1217850	11.772	ppbv	99
42) Bromodichloromethane	7.92	83	2814454	13.124	ppbv	100
43) Methyl Methacrylate	8.14	69	1426848	13.309	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5429945	12.000	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1860354	15.620	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	2089708	13.775	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	1358660	12.414	ppbv	97
48) Dibromochloromethane	10.46	129	2401096	13.936	ppbv	100
49) Bromoform	13.21	173	2119381	14.298	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	3369937	12.574	ppbv	100
51) 2-Hexanone	10.27	43	2868565	13.575	ppbv #	100
52) Tetrachloroethene	11.38	164	1198978	11.687	ppbv	98
53) Toluene	9.96	91	3907363	12.357	ppbv	100
54) 1,2-Dibromoethane	10.77	107	2224343	12.961	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	1620587	12.735	ppbv	95
57) Chlorobenzene	12.31	112	2856804	11.812	ppbv	98
58) Ethyl Benzene	12.87	91	5475317	12.208	ppbv	100
59) m/p-Xylene	13.16	91	8842139m	23.701	ppbv	
60) o-Xylene	13.86	91	4232461	11.634	ppbv	100
61) Styrene	13.69	104	3425401	12.473	ppbv	99
62) Isopropylbenzene	14.83	105	6117756	11.919	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	2942684	10.349	ppbv	98
64) n-propylbenzene	15.73	120	1579943	12.108	ppbv	97
65) tert-Butylbenzene	16.92	119	5157040	11.539	ppbv	99
66) Benzyl Chloride	17.17	91	2894279	18.119	ppbv	100
67) sec-Butylbenzene	17.47	105	7491704	11.547	ppbv	100
69) p-Isopropyltoluene	17.83	119	6199936	11.474	ppbv	100
70) n-Butylbenzene	18.72	91	6564513	11.261	ppbv	99
71) 2-Chlorotoluene	15.62	91	4821553	11.955	ppbv	99
72) 4-Ethyltoluene	16.01	105	5160886	12.300	ppbv	100
73) 1,3,5-Trimethylbenzene	16.17	105	4881838	12.166	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	4766705	11.453	ppbv	94
75) 1,3-Dichlorobenzene	17.18	146	2780495	11.584	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2864726	12.046	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	2798821	11.799	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1460759	12.385	ppbv	100
79) Naphthalene	22.42	128	5278913	11.803	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	2530171	11.185	ppbv	100
81) 1,2,4-Trichlorobenzene	22.15	180	2581000	11.360	ppbv	99

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

