

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020419\
 Data File : VL033151.D
 Acq On : 4 Feb 2019 10:42
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 2/5/2019 10:27:04 AM

Quant Time: Feb 04 14:40:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 0
 QLast Update : Fri Feb 01 22:01:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1234436	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3460787	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3497447	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2652800	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	309708	1.673	ppbv	99
3) Chlorodifluoromethane	3.01	51	319656	1.610	ppbv	100
4) Chloromethane	3.17	50	182207	1.594	ppbv	93
5) Vinyl Chloride	3.29	62	164011	1.312	ppbv	98
6) Bromomethane	3.51	94	102529	1.861	ppbv	96
7) Chloroethane	3.60	64	61479	1.822	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	375057	1.638	ppbv	96
9) Propene	3.04	41	161283	1.590	ppbv	99
10) Heptane	8.25	43	491625	2.601	ppbv	98
11) Trichlorofluoromethane	4.00	101	404407	2.076	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	260665	2.102	ppbv	96
13) Ethanol	3.65	45	67737m	2.360	ppbv	
14) Bromoethene	3.79	108	124104	1.979	ppbv	98
15) Acetone	3.90	43	373005	2.384	ppbv	99
16) 1,3-Butadiene	3.36	39	139249	1.856	ppbv	100
17) tert-Butyl alcohol	4.36	59	74657m	1.979	ppbv	
18) 1,1-Dichloroethene	4.35	96	118707	1.982	ppbv	96
19) Isopropyl Alcohol	4.02	45	232910	1.947	ppbv #	46
20) Methylene Chloride	4.41	84	118313	1.954	ppbv	97
21) Allyl Chloride	4.48	41	204988	2.039	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	116044	2.079	ppbv	98
23) Vinyl Acetate	5.15	43	565407	2.081	ppbv	99
24) 1,1-Dichloroethane	5.09	63	384497	2.121	ppbv	99
25) Ethyl Acetate	5.77	43	666449	1.988	ppbv	99
26) Hexane	5.78	57	316511	1.929	ppbv	97
27) Carbon Disulfide	4.62	76	273987	2.068	ppbv	97
28) Methyl tert-Butyl Ether	5.11	73	497919	2.111	ppbv	100
29) Chloroform	5.85	83	535293	2.415	ppbv	98
30) Cyclohexane	7.25	84	312178	2.454	ppbv	90
31) cis-1,2-Dichloroethene	5.64	61	303260	2.024	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	516289	2.256	ppbv #	82
34) 2-Butanone	5.33	43	468290	1.770	ppbv	99
35) Carbon Tetrachloride	7.13	117	505451	1.946	ppbv	97
36) Benzene	7.00	78	764159	1.969	ppbv	99
37) 1,2-Dichloroethane	6.41	62	402568	2.037	ppbv	99
38) Trichloroethene	7.96	130	267342	1.711	ppbv	97
39) 1,2-Dichloropropane	7.73	63	297914	2.094	ppbv	97
40) 1,4-Dioxane	7.96	88	112883	2.254	ppbv	98
41) Tetrahydrofuran	6.15	42	326741	2.056	ppbv	99
42) Bromodichloromethane	7.91	83	568437	2.018	ppbv	99
43) Methyl Methacrylate	8.13	69	308088	2.266	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.99	57	1299596	2.075	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	360310	2.193	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	440191	2.235	ppbv	95
47) 1,1,2-Trichloroethane	9.61	97	305588	2.355	ppbv	95
48) Dibromochloromethane	10.45	129	457480	2.115	ppbv	99
49) Bromoform	13.20	173	388233	2.164	ppbv	98
50) 4-Methyl-2-Pentanone	8.87	43	849082	2.471	ppbv	98
51) 2-Hexanone	10.27	43	740708	2.420	ppbv #	99
52) Tetrachloroethene	11.37	164	249356	1.694	ppbv	98
53) Toluene	9.95	91	878304	1.976	ppbv	99
54) 1,2-Dibromoethane	10.76	107	455717	1.867	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	332036	2.134	ppbv #	1
57) Chlorobenzene	12.30	112	642305	2.087	ppbv	97
58) Ethyl Benzene	12.86	91	1276987	2.226	ppbv	99
59) m/p-Xylene	13.12	91	2045588m	4.372	ppbv	
60) o-Xylene	13.85	91	976159	2.157	ppbv	98
61) Styrene	13.68	104	755586	2.177	ppbv	98
62) Isopropylbenzene	14.83	105	1392142	2.164	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	705502	2.066	ppbv	100
64) n-propylbenzene	15.72	120	362752	2.200	ppbv	92
65) tert-Butylbenzene	16.91	119	1264204	2.335	ppbv	96
66) Benzyl Chloride	17.15	91	581906	2.399	ppbv	98
67) sec-Butylbenzene	17.46	105	1809528	2.353	ppbv	100
69) p-Isopropyltoluene	17.81	119	1499420	2.474	ppbv	98
70) n-Butylbenzene	18.71	91	1638450	2.657	ppbv	99
71) 2-Chlorotoluene	15.62	91	1096326	2.239	ppbv	98
72) 4-Ethyltoluene	16.00	105	1176374	2.319	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	1121950	2.453	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	1173507	2.605	ppbv	97
75) 1,3-Dichlorobenzene	17.16	146	641891	2.392	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	629116	2.348	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	631759	2.441	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	284255	2.370	ppbv	99
79) Naphthalene	22.41	128	1403599	4.752	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	748922	8.596	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	629275	4.047	ppbv	100

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

