

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020519\
 Data File : VL033171.D
 Acq On : 6 Feb 2019 3:09
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 2/20/2019 12:21:03 PM

Quant Time: Feb 20 05:49:09 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	5.76	49	945938	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2645657	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2575591	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2045161	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	227672	1.259	ppbv	99
3) Chlorodifluoromethane	3.02	51	136142	1.195	ppbv	100
4) Chloromethane	3.17	50	70098	1.166	ppbv	98
5) Vinyl Chloride	3.29	62	67562	1.075	ppbv	97
6) Bromomethane	3.51	94	41688	1.208	ppbv	99
7) Chloroethane	3.60	64	24452	1.191	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	173825	1.229	ppbv	98
9) Propene	3.04	41	66486	1.208	ppbv	97
10) Heptane	8.25	43	197588	1.187	ppbv	98
11) Trichlorofluoromethane	4.00	101	175240	1.197	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	122193	1.204	ppbv	98
13) Ethanol	3.65	45	27556	1.502	ppbv	99
14) Bromoethene	3.79	108	52608	1.202	ppbv	97
15) Acetone	3.91	43	134807	1.265	ppbv	98
16) 1,3-Butadiene	3.36	39	63896	1.263	ppbv	92
17) tert-Butyl alcohol	4.37	59	25981m	1.279	ppbv	
18) 1,1-Dichloroethene	4.35	96	52036	1.146	ppbv	89
19) Isopropyl Alcohol	4.03	45	96293	1.332	ppbv #	97
20) Methylene Chloride	4.41	84	52392	1.236	ppbv	98
21) Allyl Chloride	4.48	41	80996	1.151	ppbv	97
22) trans-1,2-Dichloroethene	4.96	96	51525	1.168	ppbv	91
23) Vinyl Acetate	5.16	43	209326	1.133	ppbv	97
24) 1,1-Dichloroethane	5.09	63	156697	1.199	ppbv	98
25) Ethyl Acetate	5.77	43	271496	1.133	ppbv	99
26) Hexane	5.78	57	128815	1.145	ppbv	96
27) Carbon Disulfide	4.62	76	114984	1.116	ppbv #	91
28) Methyl tert-Butyl Ether	5.12	73	185864	1.209	ppbv	99
29) Chloroform	5.85	83	191539	1.111	ppbv	96
30) Cyclohexane	7.25	84	127881	1.225	ppbv	96
31) cis-1,2-Dichloroethene	5.64	61	123189	1.094	ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	208390	1.098	ppbv	98
34) 2-Butanone	5.34	43	186406	1.111	ppbv	100
35) Carbon Tetrachloride	7.13	117	211399	1.046	ppbv	98
36) Benzene	7.00	78	310274	1.157	ppbv	96
37) 1,2-Dichloroethane	6.41	62	170415	1.147	ppbv	99
38) Trichloroethene	7.96	130	112945	0.984	ppbv	88
39) 1,2-Dichloropropane	7.73	63	119030	1.124	ppbv	90
40) 1,4-Dioxane	7.98	88	48163m	1.251	ppbv	
41) Tetrahydrofuran	6.16	42	123712m	1.191	ppbv	
42) Bromodichloromethane	7.92	83	237085	1.101	ppbv #	98
43) Methyl Methacrylate	8.14	69	116694	1.084	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	515933	1.135	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	114692	0.959	ppbv	92
46) cis-1,3-Dichloropropene	8.84	75	160147	1.051	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	120574m	1.097	ppbv	
48) Dibromochloromethane	10.46	129	189089	1.093	ppbv	100
49) Bromoform	13.20	173	158581m	1.065	ppbv	
50) 4-Methyl-2-Pentanone	8.88	43	300809	1.118	ppbv	100
51) 2-Hexanone	10.29	43	232111	1.094	ppbv #	100
52) Tetrachloroethene	11.37	164	107330m	1.042	ppbv	
53) Toluene	9.95	91	357378	1.126	ppbv	100
54) 1,2-Dibromoethane	10.76	107	193609	1.123	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.28	131	133726	1.115	ppbv #	1
57) Chlorobenzene	12.30	112	266564	1.169	ppbv	95
58) Ethyl Benzene	12.87	91	504262	1.193	ppbv	97
59) m/p-Xylene	13.15	91	845195m	2.403	ppbv	
60) o-Xylene	13.85	91	417244	1.217	ppbv	98
61) Styrene	13.69	104	306862	1.185	ppbv	99
62) Isopropylbenzene	14.83	105	581631	1.202	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	288239	1.075	ppbv	98
64) n-propylbenzene	15.73	120	149453	1.215	ppbv	95
65) tert-Butylbenzene	16.91	119	517113	1.227	ppbv	97
66) Benzyl Chloride	17.16	91	128796	0.855	ppbv	98
67) sec-Butylbenzene	17.46	105	761145	1.244	ppbv	98
69) p-Isopropyltoluene	17.82	119	639657	1.256	ppbv	99
70) n-Butylbenzene	18.72	91	711116	1.294	ppbv	98
71) 2-Chlorotoluene	15.62	91	459186	1.208	ppbv	99
72) 4-Ethyltoluene	16.00	105	478154	1.209	ppbv	98
73) 1,3,5-Trimethylbenzene	16.16	105	450021	1.190	ppbv	93
74) 1,2,4-Trimethylbenzene	16.93	105	482223	1.229	ppbv	94
75) 1,3-Dichlorobenzene	17.17	146	273190	1.207	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	264092	1.178	ppbv	98
77) 1,2-Dichlorobenzene	17.99	146	272687	1.219	ppbv	97
78) Hexachloro-1,3-Butadiene	23.55	225	133223	1.198	ppbv	98
79) Naphthalene	22.42	128	511631	1.213	ppbv	98
80) Naphthalene,2-methyl-	25.12	142	248957	1.167	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	263343	1.229	ppbv	100

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

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