

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
 Data File : VL033231.D
 Acq On : 15 Feb 2019 14:12
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 2/21/2019 1:03:49 PM

Quant Time: Feb 21 02:43:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 21 02:43:00 2019
 QLast Update : Wed Feb 20 06:00:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	812650	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1812438	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	1988203	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	1521677	9.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1521358	9.792	ppbv	97
3) Chlorodifluoromethane	3.02	51	965909	9.871	ppbv	96
4) Chloromethane	3.17	50	506620	9.805	ppbv	99
5) Vinyl Chloride	3.29	62	487612	9.038	ppbv	99
6) Bromomethane	3.52	94	297066	10.018	ppbv	99
7) Chloroethane	3.61	64	183449	10.401	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1189541	9.790	ppbv	98
9) Propene	3.04	41	423857	8.967	ppbv	100
10) Heptane	8.25	43	1266476	8.856	ppbv	100
11) Trichlorofluoromethane	4.01	101	1309980	10.415	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	858789	9.851	ppbv	99
13) Ethanol	3.65	45	92318	5.747	ppbv	97
14) Bromoethene	3.79	108	375788	9.998	ppbv	98
15) Acetone	3.91	43	855789	9.347	ppbv	99
16) 1,3-Butadiene	3.37	39	430331	9.902	ppbv	100
17) tert-Butyl alcohol	4.36	59	158395	9.006	ppbv	98
18) 1,1-Dichloroethene	4.36	96	379696	9.730	ppbv	96
19) Isopropyl Alcohol	4.02	45	533661	8.594	ppbv	# 99
20) Methylene Chloride	4.41	84	324683	8.915	ppbv	93
21) Allyl Chloride	4.48	41	606894	10.039	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	457127	12.063	ppbv	99
23) Vinyl Acetate	5.16	43	1815971	11.444	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1234300	10.997	ppbv	99
25) Ethyl Acetate	5.77	43	2101796	10.210	ppbv	99
26) Hexane	5.79	57	923463	9.556	ppbv	96
27) Carbon Disulfide	4.62	76	956851	10.808	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	1407150	10.656	ppbv	100
29) Chloroform	5.86	83	1531737	10.343	ppbv	98
30) Cyclohexane	7.25	84	770580	8.594	ppbv	96
31) cis-1,2-Dichloroethene	5.65	61	993249	10.269	ppbv	100
32) 1,1,1-Trichloroethane	6.63	97	1513093	9.279	ppbv	98
34) 2-Butanone	5.34	43	1433997	12.473	ppbv	98
35) Carbon Tetrachloride	7.14	117	1580789	11.420	ppbv	95
36) Benzene	7.01	78	1905344	10.373	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1221910	12.003	ppbv	99
38) Trichloroethene	7.97	130	711998	9.071	ppbv	97
39) 1,2-Dichloropropane	7.74	63	746451	10.290	ppbv	95
40) 1,4-Dioxane	7.96	88	250285	9.717	ppbv	# 1
41) Tetrahydrofuran	6.16	42	802137	11.287	ppbv	98
42) Bromodichloromethane	7.93	83	1710248	11.593	ppbv	100
43) Methyl Methacrylate	8.15	69	808157	10.959	ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	3286398	10.558	ppbv	98
45) t-1,3-Dichloropropene	9.43	75	1068978	13.090	ppbv	99
46) cis-1,3-Dichloropropene	8.85	75	1207024	11.567	ppbv	94
47) 1,1,2-Trichloroethane	9.62	97	787986	10.474	ppbv	94
48) Dibromochloromethane	10.46	129	1433880	12.098	ppbv	100
49) Bromoform	13.21	173	1274067	12.493	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2062899	11.190	ppbv	98
51) 2-Hexanone	10.28	43	1643815	11.309	ppbv #	97
52) Tetrachloroethene	11.38	164	693920	9.833	ppbv	95
53) Toluene	9.96	91	2247686	10.334	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1292468	10.948	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.29	131	995226	10.748	ppbv	99
57) Chlorobenzene	12.31	112	1682763	9.565	ppbv	94
58) Ethyl Benzene	12.88	91	3194335	9.788	ppbv	98
59) m/p-Xylene	13.16	91	5320372m	19.599	ppbv	
60) o-Xylene	13.86	91	2635177	9.955	ppbv	99
61) Styrene	13.70	104	1961710	9.817	ppbv	98
62) Isopropylbenzene	14.84	105	3671193	9.829	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	1843565	8.921	ppbv	99
64) n-propylbenzene	15.73	120	930536	9.800	ppbv	95
65) tert-Butylbenzene	16.92	119	3251580	9.998	ppbv	98
66) Benzyl Chloride	17.17	91	1690714	14.547	ppbv	98
67) sec-Butylbenzene	17.47	105	4668592	9.889	ppbv	99
69) p-Isopropyltoluene	17.83	119	3880902	9.870	ppbv	98
70) n-Butylbenzene	18.72	91	4218365	9.944	ppbv	99
71) 2-Chlorotoluene	15.63	91	2891710	9.855	ppbv	98
72) 4-Ethyltoluene	16.01	105	3059270	10.020	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	2934152	10.049	ppbv	97
74) 1,2,4-Trimethylbenzene	16.94	105	3008134	9.933	ppbv	93
75) 1,3-Dichlorobenzene	17.18	146	1707927	9.778	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	1731612	10.006	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	1708204	9.897	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1356566	15.806	ppbv	99
79) Naphthalene	22.42	128	3224843	9.909	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	1504891	9.142	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1595377	9.650	ppbv	99

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

