

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030520\
 Data File : VL034790.D
 Acq On : 5 Mar 2020 9:39
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 3/9/2020 9:18:09 AM

Quant Time: Mar 06 04:54:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 0
 QLast Update : Wed Mar 04 06:36:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1053391	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.18	114	2182639	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.11	117	2362376	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1889500	9.59	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	1693810	9.853	ppbv 99
3) Chlorodifluoromethane	2.95	51	1060622	8.838	ppbv 98
4) Chloromethane	3.10	50	590886	9.141	ppbv 98
5) Vinyl Chloride	3.22	62	584067	8.553	ppbv 98
6) Bromomethane	3.44	94	349453	9.376	ppbv 96
7) Chloroethane	3.52	64	213588	9.046	ppbv 95
8) Dichlorotetrafluoroethane	3.15	85	1369034	9.167	ppbv 99
9) Propene	2.97	41	422592	8.946	ppbv 99
10) Heptane	8.13	43	1196989	9.971	ppbv 98
11) Trichlorofluoromethane	3.92	101	1446972	9.406	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.46	101	999245	9.415	ppbv 97
13) Ethanol	3.57	45	134744	8.325	ppbv 96
14) Bromoethene	3.71	108	427811	9.823	ppbv 99
15) Acetone	3.82	43	1107425	8.779	ppbv 99
16) 1,3-Butadiene	3.29	39	540632	9.473	ppbv 100
17) tert-Butyl alcohol	4.27	59	1030016	10.355	ppbv 100
18) 1,1-Dichloroethene	4.26	96	453241	9.683	ppbv 99
19) Isopropyl Alcohol	3.94	45	789528	10.446	ppbv 99
20) Methylene Chloride	4.32	84	403986	8.973	ppbv 94
21) Allyl Chloride	4.39	41	783910	9.813	ppbv 98
22) trans-1,2-Dichloroethene	4.87	96	449793	9.843	ppbv 98
23) Vinyl Acetate	5.06	43	1658200	9.803	ppbv 99
24) 1,1-Dichloroethane	4.99	63	1209316	9.211	ppbv 98
25) Ethyl Acetate	5.67	43	2035420	9.338	ppbv 100
26) Hexane	5.67	57	923105	9.694	ppbv 99
27) Carbon Disulfide	4.53	76	1185392	10.655	ppbv 100
28) Methyl tert-Butyl Ether	5.02	73	1325936	9.355	ppbv 99
29) Chloroform	5.74	83	1496598	9.336	ppbv 95
30) Cyclohexane	7.13	84	754372	10.355	ppbv 97
31) cis-1,2-Dichloroethene	5.54	61	954003	9.767	ppbv 96
32) 1,1,1-Trichloroethane	6.51	97	1438724	9.083	ppbv 99
34) 2-Butanone	5.23	43	1333193	9.389	ppbv 100
35) Carbon Tetrachloride	7.02	117	1508327	9.158	ppbv 100
36) Benzene	6.89	78	1793553	9.616	ppbv 99
37) 1,2-Dichloroethane	6.30	62	1226057	9.624	ppbv 99
38) Trichloroethene	7.84	130	692163	9.522	ppbv 98
39) 1,2-Dichloropropane	7.62	63	716556	9.520	ppbv 97
40) 1,4-Dioxane	7.83	88	268870	10.328	ppbv # 98
41) Tetrahydrofuran	6.04	42	737531	10.180	ppbv 99
42) Bromodichloromethane	7.80	83	1615002	10.019	ppbv 98
43) Methyl Methacrylate	8.02	69	846463	10.710	ppbv 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	3165658	9.713	ppbv	100
45) t-1,3-Dichloropropene	9.29	75	963987	11.619	ppbv	97
46) cis-1,3-Dichloropropene	8.72	75	1123074	11.085	ppbv	99
47) 1,1,2-Trichloroethane	9.49	97	754034m	9.489	ppbv	
48) Dibromochloromethane	10.32	129	1321811	10.637	ppbv	100
49) Bromoform	13.07	173	1187394	10.951	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2033643	9.995	ppbv	99
51) 2-Hexanone	10.15	43	1680749	10.531	ppbv	100
52) Tetrachloroethene	11.25	164	643147	9.334	ppbv	96
53) Toluene	9.82	91	2065896	10.466	ppbv	99
54) 1,2-Dibromoethane	10.64	107	1169942	9.957	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.15	131	977636	9.340	ppbv #	60
57) Chlorobenzene	12.17	112	1589828	8.810	ppbv	99
58) Ethyl Benzene	12.74	91	2862052	9.831	ppbv	97
59) m/p-Xylene	13.02	91	4794648m	19.026	ppbv	
60) o-Xylene	13.72	91	2401129	9.417	ppbv	99
61) Styrene	13.55	104	1686551	10.662	ppbv	99
62) Isopropylbenzene	14.70	105	3459669	9.219	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.71	83	1726159	8.588	ppbv	100
64) n-propylbenzene	15.60	120	911887	9.691	ppbv	100
65) tert-Butylbenzene	16.78	119	3058761	9.645	ppbv	99
66) Benzyl Chloride	17.03	91	1200177	11.706	ppbv	99
67) sec-Butylbenzene	17.33	105	4349913	9.413	ppbv	100
69) p-Isopropyltoluene	17.69	119	3621556	9.684	ppbv	99
70) n-Butylbenzene	18.59	91	3946896	9.652	ppbv	100
71) 2-Chlorotoluene	15.49	91	2738725	9.663	ppbv	100
72) 4-Ethyltoluene	15.87	105	2822651	9.942	ppbv	100
73) 1,3,5-Trimethylbenzene	16.03	105	2662931	9.779	ppbv	98
74) 1,2,4-Trimethylbenzene	16.80	105	2794858	9.441	ppbv	93
75) 1,3-Dichlorobenzene	17.03	146	1585122	9.045	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1588117	9.471	ppbv	99
77) 1,2-Dichlorobenzene	17.85	146	1535822	9.161	ppbv	100
78) Hexachloro-1,3-Butadiene	23.42	225	1289512	9.217	ppbv	99
79) Naphthalene	22.26	128	2593677	11.659	ppbv	100
80) Naphthalene, 2-methyl-	25.01	142	1129509	21.258	ppbv	96
81) 1,2,4-Trichlorobenzene	21.98	180	1479221	10.518	ppbv	99

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

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