

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022620\
 Data File : VL034676.D
 Acq On : 26 Feb 2020 2:27
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 2/27/2020 5:19:09 PM

Quant Time: Feb 26 03:44:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 26 03:37:46 2020
 QLast Update : Wed Feb 26 03:37:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1135640	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2399506	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2550994m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2023160	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.01	85	1382375	7.874	ppbv 100
3) Chlorodifluoromethane	2.95	51	1132757	8.244	ppbv 100
4) Chloromethane	3.11	50	654606	7.908	ppbv 100
5) Vinyl Chloride	3.22	62	636779	8.271	ppbv 100
6) Bromomethane	3.44	94	376149	9.359	ppbv 100
7) Chloroethane	3.53	64	240730	8.505	ppbv 100
8) Dichlorotetrafluoroethane	3.15	85	1424796	8.079	ppbv 100
9) Propene	2.97	41	495891	8.912	ppbv 100
10) Heptane	8.14	43	1326463	9.073	ppbv 100
11) Trichlorofluoromethane	3.92	101	1435366	8.057	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1001871	8.157	ppbv 100
13) Ethanol	3.58	45	147721	8.625	ppbv 99
14) Bromoethene	3.71	108	441963	8.723	ppbv 100
15) Acetone	3.83	43	1119680	7.263	ppbv 100
16) 1,3-Butadiene	3.29	39	581217	8.865	ppbv 100
17) tert-Butyl alcohol	4.27	59	1109460	9.465	ppbv 100
18) 1,1-Dichloroethene	4.27	96	463220	8.261	ppbv 100
19) Isopropyl Alcohol	3.94	45	852300	8.042	ppbv # 99
20) Methylene Chloride	4.32	84	406539	7.203	ppbv 100
21) Allyl Chloride	4.39	41	837958	8.925	ppbv 100
22) trans-1,2-Dichloroethene	4.87	96	468318	8.514	ppbv 100
23) Vinyl Acetate	5.06	43	1826889	9.571	ppbv 100
24) 1,1-Dichloroethane	5.00	63	1308413	8.226	ppbv 100
25) Ethyl Acetate	5.67	43	2203984	8.294	ppbv 100
26) Hexane	5.68	57	1004983	8.516	ppbv 100
27) Carbon Disulfide	4.53	76	1230388	9.177	ppbv 100
28) Methyl tert-Butyl Ether	5.02	73	1506955	8.843	ppbv 100
29) Chloroform	5.75	83	1560038	8.308	ppbv 100
30) Cyclohexane	7.14	84	823562	9.119	ppbv 100
31) cis-1,2-Dichloroethene	5.55	61	1052465	9.199	ppbv 100
32) 1,1,1-Trichloroethane	6.52	97	1480732	8.610	ppbv 100
34) 2-Butanone	5.23	43	1469081	8.634	ppbv 100
35) Carbon Tetrachloride	7.03	117	1550341	8.483	ppbv 100
36) Benzene	6.90	78	2002933	8.859	ppbv 100
37) 1,2-Dichloroethane	6.31	62	1241628	8.392	ppbv 100
38) Trichloroethene	7.85	130	746561	8.699	ppbv 100
39) 1,2-Dichloropropane	7.63	63	808777	8.693	ppbv 100
40) 1,4-Dioxane	7.85	88	299105	8.606	ppbv 100
41) Tetrahydrofuran	6.05	42	829923	9.320	ppbv 100
42) Bromodichloromethane	7.81	83	1682160	8.764	ppbv 100
43) Methyl Methacrylate	8.02	69	924586	10.432	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	3489125	8.584	ppbv	100
45) t-1,3-Dichloropropene	9.30	75	1100938	10.612	ppbv	100
46) cis-1,3-Dichloropropene	8.72	75	1267925	10.449	ppbv	100
47) 1,1,2-Trichloroethane	9.50	97	819343	8.334	ppbv	100
48) Dibromochloromethane	10.33	129	1360473	9.013	ppbv	100
49) Bromoform	13.08	173	1189869	9.015	ppbv	100
50) 4-Methyl-2-Pentanone	8.76	43	2182373	9.031	ppbv	100
51) 2-Hexanone	10.16	43	1804229	9.465	ppbv	100
52) Tetrachloroethene	11.25	164	683634	8.570	ppbv	100
53) Toluene	9.83	91	2285814	9.401	ppbv	100
54) 1,2-Dibromoethane	10.64	107	1251029	9.135	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.16	131	980341	8.789	ppbv	100
57) Chlorobenzene	12.18	112	1690854	8.021	ppbv	100
58) Ethyl Benzene	12.74	91	3029783	8.927	ppbv	100
59) m/p-Xylene	13.03	91	5070783m	17.031	ppbv	
60) o-Xylene	13.73	91	2476109	8.325	ppbv	100
61) Styrene	13.57	104	1806565	8.890	ppbv	100
62) Isopropylbenzene	14.70	105	3604792	9.149	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.72	83	1764550	7.471	ppbv	100
64) n-propylbenzene	15.60	120	957100	9.571	ppbv	100
65) tert-Butylbenzene	16.79	119	3116750	9.072	ppbv	100
66) Benzyl Chloride	17.04	91	1433636	10.811	ppbv	100
67) sec-Butylbenzene	17.34	105	4436365	9.042	ppbv	100
69) p-Isopropyltoluene	17.70	119	3679038	9.435	ppbv	100
70) n-Butylbenzene	18.59	91	3979230	9.535	ppbv	100
71) 2-Chlorotoluene	15.49	91	2850406	9.436	ppbv	100
72) 4-Ethyltoluene	15.88	105	2893467	8.814	ppbv	100
73) 1,3,5-Trimethylbenzene	16.04	105	2729948	8.769	ppbv	100
74) 1,2,4-Trimethylbenzene	16.81	105	2795101	8.332	ppbv	100
75) 1,3-Dichlorobenzene	17.04	146	1607343	8.162	ppbv	100
76) 1,4-Dichlorobenzene	17.18	146	1639722	8.437	ppbv	100
77) 1,2-Dichlorobenzene	17.87	146	1571245	8.282	ppbv	100
78) Hexachloro-1,3-Butadiene	23.43	225	1289723	8.304	ppbv	100
79) Naphthalene	22.26	128	2695722	10.561	ppbv	100
80) Naphthalene, 2-methyl-	25.01	142	732136	13.609	ppbv	100
81) 1,2,4-Trichlorobenzene	21.99	180	1524881	9.784	ppbv	100

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

