

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022520\
 Data File : VL034667.D
 Acq On : 25 Feb 2020 11:17
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 2/26/2020 12:38:40 PM

Quant Time: Feb 25 12:08:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 25 2020
 QLast Update : Tue Feb 25 12:01:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1144694	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2410844	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2582745	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	2085314	9.55	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	1464003	5.807	ppbv 100
3) Chlorodifluoromethane	2.95	51	1165667	8.427	ppbv 100
4) Chloromethane	3.10	50	774952	9.157	ppbv 100
5) Vinyl Chloride	3.22	62	712135	8.810	ppbv 100
6) Bromomethane	3.44	94	356199	8.472	ppbv 100
7) Chloroethane	3.52	64	260171	8.655	ppbv 100
8) Dichlorotetrafluoroethane	3.15	85	1537289	7.801	ppbv 100
9) Propene	2.97	41	529954	9.841	ppbv 100
10) Heptane	8.14	43	1476658	10.895	ppbv 100
11) Trichlorofluoromethane	3.92	101	1561968	6.820	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1098658	7.352	ppbv 100
13) Ethanol	3.57	45	133380	9.246	ppbv 99
14) Bromoethene	3.71	108	485629	8.284	ppbv 100
15) Acetone	3.82	43	1264508	7.516	ppbv 99
16) 1,3-Butadiene	3.29	39	637774	9.547	ppbv 100
17) tert-Butyl alcohol	4.27	59	1024086	8.277	ppbv 100
18) 1,1-Dichloroethene	4.26	96	503746	7.986	ppbv 100
19) Isopropyl Alcohol	3.94	45	1002646	10.213	ppbv 99
20) Methylene Chloride	4.32	84	466050	7.275	ppbv 100
21) Allyl Chloride	4.39	41	879719	8.420	ppbv 100
22) trans-1,2-Dichloroethene	4.87	96	502223	7.602	ppbv 100
23) Vinyl Acetate	5.06	43	1839710	9.585	ppbv 100
24) 1,1-Dichloroethane	5.00	63	1430512	8.927	ppbv 100
25) Ethyl Acetate	5.67	43	2486304	9.129	ppbv 100
26) Hexane	5.68	57	1120522	9.822	ppbv 100
27) Carbon Disulfide	4.53	76	1348785	8.762	ppbv 99
28) Methyl tert-Butyl Ether	5.02	73	1642197	8.441	ppbv 100
29) Chloroform	5.75	83	1707877	8.466	ppbv 100
30) Cyclohexane	7.14	84	902391	10.675	ppbv 100
31) cis-1,2-Dichloroethene	5.54	61	1150193	9.704	ppbv 100
32) 1,1,1-Trichloroethane	6.51	97	1590818	7.344	ppbv 100
34) 2-Butanone	5.23	43	1635381	9.342	ppbv 100
35) Carbon Tetrachloride	7.02	117	1682399	7.299	ppbv 100
36) Benzene	6.90	78	2207156	10.295	ppbv 100
37) 1,2-Dichloroethane	6.31	62	1393666	7.791	ppbv 100
38) Trichloroethene	7.85	130	822009	9.096	ppbv 100
39) 1,2-Dichloropropane	7.63	63	885846	9.967	ppbv 100
40) 1,4-Dioxane	7.84	88	349275	10.223	ppbv 100
41) Tetrahydrofuran	6.04	42	916809	10.040	ppbv 100
42) Bromodichloromethane	7.81	83	1855956	8.430	ppbv 100
43) Methyl Methacrylate	8.02	69	916048	10.623	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	3832795	9.853	ppbv	100
45) t-1,3-Dichloropropene	9.30	75	1158557	10.261	ppbv	100
46) cis-1,3-Dichloropropene	8.72	75	1327930	10.347	ppbv	100
47) 1,1,2-Trichloroethane	9.50	97	911461	9.469	ppbv	100
48) Dibromochloromethane	10.33	129	1523736	8.638	ppbv	100
49) Bromoform	13.08	173	1342894	8.671	ppbv	100
50) 4-Methyl-2-Pentanone	8.75	43	2457061	9.843	ppbv	100
51) 2-Hexanone	10.15	43	2057043	10.468	ppbv	100
52) Tetrachloroethene	11.26	164	754609	8.762	ppbv	100
53) Toluene	9.83	91	2512717	10.669	ppbv	100
54) 1,2-Dibromoethane	10.64	107	1319302	9.146	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.16	131	993225	7.789	ppbv	100
57) Chlorobenzene	12.18	112	1864742	8.774	ppbv	100
58) Ethyl Benzene	12.74	91	3350154	9.694	ppbv	100
59) m/p-Xylene	13.03	91	5555444m	18.184	ppbv	
60) o-Xylene	13.73	91	2722699	8.874	ppbv	100
61) Styrene	13.56	104	2121916	10.372	ppbv	100
62) Isopropylbenzene	14.71	105	3553660	8.938	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.72	83	1946172	8.201	ppbv	100
64) n-propylbenzene	15.60	120	934578	9.136	ppbv	100
65) tert-Butylbenzene	16.79	119	3097394	8.599	ppbv	100
66) Benzyl Chloride	17.03	91	1389981	9.203	ppbv	100
67) sec-Butylbenzene	17.34	105	4337554	8.762	ppbv	100
69) p-Isopropyltoluene	17.70	119	3532617	8.788	ppbv	100
70) n-Butylbenzene	18.60	91	3720256	8.719	ppbv	100
71) 2-Chlorotoluene	15.49	91	2789319	9.242	ppbv	100
72) 4-Ethyltoluene	15.88	105	3120431	9.259	ppbv	99
73) 1,3,5-Trimethylbenzene	16.04	105	2967772	9.012	ppbv	100
74) 1,2,4-Trimethylbenzene	16.81	105	2991039	8.204	ppbv	100
75) 1,3-Dichlorobenzene	17.05	146	1688878m	8.045	ppbv	
76) 1,4-Dichlorobenzene	17.18	146	1701162	8.222	ppbv	100
77) 1,2-Dichlorobenzene	17.87	146	1615525	8.011	ppbv	100
78) Hexachloro-1,3-Butadiene	23.42	225	1217052	6.311	ppbv	100
79) Naphthalene	22.27	128	2580409	8.990	ppbv	100
80) Naphthalene, 2-methyl-	25.01	142	688162	6.232	ppbv	100
81) 1,2,4-Trichlorobenzene	21.99	180	1433846	8.103	ppbv	100

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

