

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\
 Data File : VL034885.D
 Acq On : 16 Mar 2020 10:17
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 3/17/2020 12:15:36 PM

Quant Time: Mar 17 04:32:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1006000	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2175548	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2325428	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1818350	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1096191	7.957	ppbv	100
3) Chlorodifluoromethane	2.94	51	1082109	9.629	ppbv	98
4) Chloromethane	3.10	50	618087	9.732	ppbv	97
5) Vinyl Chloride	3.21	62	608006	9.957	ppbv	93
6) Bromomethane	3.44	94	359623	10.117	ppbv	98
7) Chloroethane	3.52	64	224610	10.186	ppbv	100
8) Dichlorotetrafluoroethane	3.14	85	1361150	9.514	ppbv	95
9) Propene	2.97	41	491417	9.159	ppbv	99
10) Heptane	8.12	43	1342672	10.168	ppbv	100
11) Trichlorofluoromethane	3.92	101	1404468	9.583	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.46	101	983867	9.592	ppbv	95
13) Ethanol	3.56	45	123348	7.562	ppbv	94
14) Bromoethene	3.70	108	432614	9.766	ppbv	100
15) Acetone	3.81	43	1129772	8.665	ppbv	99
16) 1,3-Butadiene	3.29	39	567099	9.618	ppbv	99
17) tert-Butyl alcohol	4.26	59	996801	7.935	ppbv	99
18) 1,1-Dichloroethene	4.26	96	445031	9.797	ppbv	97
19) Isopropyl Alcohol	3.93	45	675347	8.202	ppbv #	41
20) Methylene Chloride	4.31	84	389178	9.440	ppbv	98
21) Allyl Chloride	4.38	41	782671	9.346	ppbv	99
22) trans-1,2-Dichloroethene	4.86	96	439709	9.541	ppbv	96
23) Vinyl Acetate	5.05	43	1779828	9.241	ppbv	99
24) 1,1-Dichloroethane	4.99	63	1246668	9.655	ppbv	99
25) Ethyl Acetate	5.66	43	2197073	9.458	ppbv	99
26) Hexane	5.67	57	972080	9.718	ppbv	98
27) Carbon Disulfide	4.52	76	1171272	10.319	ppbv	99
28) Methyl tert-Butyl Ether	5.01	73	1507952	9.061	ppbv	99
29) Chloroform	5.74	83	1506583	9.871	ppbv	96
30) Cyclohexane	7.13	84	828728	9.930	ppbv	99
31) cis-1,2-Dichloroethene	5.53	61	984371	9.623	ppbv	98
32) 1,1,1-Trichloroethane	6.50	97	1467244	9.866	ppbv	99
34) 2-Butanone	5.22	43	1461276	10.107	ppbv	99
35) Carbon Tetrachloride	7.01	117	1505886	11.129	ppbv	99
36) Benzene	6.88	78	1941953	10.014	ppbv	96
37) 1,2-Dichloroethane	6.30	62	1177640	10.770	ppbv	98
38) Trichloroethene	7.84	130	729861	9.910	ppbv	93
39) 1,2-Dichloropropane	7.61	63	774993	10.087	ppbv	98
40) 1,4-Dioxane	7.83	88	254818	8.782	ppbv #	91
41) Tetrahydrofuran	6.03	42	813302	10.396	ppbv	99
42) Bromodichloromethane	7.79	83	1625896	10.910	ppbv	99
43) Methyl Methacrylate	8.01	69	878475	10.753	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	3411843	10.412	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1020423	10.631	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1195538	10.482	ppbv	98
47) 1,1,2-Trichloroethane	9.48	97	820456	10.406	ppbv	95
48) Dibromochloromethane	10.32	129	1358151	10.636	ppbv	98
49) Bromoform	13.06	173	1202012	10.558	ppbv	98
50) 4-Methyl-2-Pentanone	8.74	43	2221821	10.676	ppbv	100
51) 2-Hexanone	10.14	43	1839820	10.878	ppbv #	99
52) Tetrachloroethene	11.24	164	703141	9.165	ppbv	95
53) Toluene	9.82	91	2298300	10.263	ppbv	99
54) 1,2-Dibromoethane	10.63	107	1242543	10.469	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.15	131	1015715	9.724	ppbv	98
57) Chlorobenzene	12.16	112	1708825	9.392	ppbv	96
58) Ethyl Benzene	12.73	91	3151315	10.007	ppbv	99
59) m/p-Xylene	13.01	91	5133828m	19.459	ppbv	
60) o-Xylene	13.71	91	2546249	9.885	ppbv	99
61) Styrene	13.55	104	1860544	10.292	ppbv	98
62) Isopropylbenzene	14.69	105	3745626	9.616	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.70	83	1819876	10.406	ppbv	99
64) n-propylbenzene	15.59	120	988977	9.755	ppbv	90
65) tert-Butylbenzene	16.77	119	3271686	9.608	ppbv	97
66) Benzyl Chloride	17.02	91	1350865	9.514	ppbv	96
67) sec-Butylbenzene	17.32	105	4704330	9.964	ppbv	98
69) p-Isopropyltoluene	17.68	119	3908989	9.874	ppbv	99
70) n-Butylbenzene	18.58	91	4201845	10.402	ppbv	99
71) 2-Chlorotoluene	15.48	91	2943932	9.980	ppbv	98
72) 4-Ethyltoluene	15.87	105	3064785	10.074	ppbv	99
73) 1,3,5-Trimethylbenzene	16.02	105	2877030	10.103	ppbv	96
74) 1,2,4-Trimethylbenzene	16.79	105	2973116	10.133	ppbv	97
75) 1,3-Dichlorobenzene	17.03	146	1720922	9.728	ppbv	99
76) 1,4-Dichlorobenzene	17.17	146	1705516	9.661	ppbv	99
77) 1,2-Dichlorobenzene	17.85	146	1657421	9.665	ppbv	98
78) Hexachloro-1,3-Butadiene	23.41	225	1371311	9.574	ppbv	99
79) Naphthalene	22.25	128	2828329	12.361	ppbv	98
80) Naphthalene, 2-methyl-	25.01	142	1147158	19.185	ppbv	99
81) 1,2,4-Trichlorobenzene	21.97	180	1601291	11.015	ppbv	99

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

