

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\
 Data File : VL034912.D
 Acq On : 17 Mar 2020 5:11
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 3/17/2020 12:16:31 PM

Quant Time: Mar 17 07:26:59 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	5.66	49	894408	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1910241	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2011384	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1598385	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1713585	13.991	ppbv	98
3) Chlorodifluoromethane	2.95	51	1074738	10.757	ppbv	97
4) Chloromethane	3.10	50	637031	11.281	ppbv	97
5) Vinyl Chloride	3.22	62	605623	11.156	ppbv	95
6) Bromomethane	3.44	94	364640	11.538	ppbv	97
7) Chloroethane	3.52	64	222561	11.353	ppbv	99
8) Dichlorotetrafluoroethane	3.15	85	1358444	10.680	ppbv	94
9) Propene	2.97	41	498177	10.443	ppbv	99
10) Heptane	8.13	43	1326938	11.303	ppbv	100
11) Trichlorofluoromethane	3.92	101	1395283	10.708	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.46	101	988354	10.838	ppbv	95
13) Ethanol	3.57	45	134524	9.276	ppbv	90
14) Bromoethene	3.71	108	429635	10.908	ppbv	99
15) Acetone	3.82	43	1280587	11.047	ppbv	97
16) 1,3-Butadiene	3.29	39	570714	10.887	ppbv	98
17) tert-Butyl alcohol	4.27	59	913841	8.182	ppbv	99
18) 1,1-Dichloroethene	4.26	96	449746	11.136	ppbv	99
19) Isopropyl Alcohol	3.94	45	676092	9.236	ppbv #	41
20) Methylene Chloride	4.32	84	396605	10.821	ppbv	98
21) Allyl Chloride	4.39	41	801607	10.767	ppbv	99
22) trans-1,2-Dichloroethene	4.86	96	453092	11.059	ppbv	99
23) Vinyl Acetate	5.06	43	1858917	10.856	ppbv	99
24) 1,1-Dichloroethane	4.99	63	1207962	10.523	ppbv	100
25) Ethyl Acetate	5.66	43	2158791	10.453	ppbv	100
26) Hexane	5.67	57	967429	10.878	ppbv	98
27) Carbon Disulfide	4.52	76	1152076	11.416	ppbv	98
28) Methyl tert-Butyl Ether	5.02	73	1439943	9.731	ppbv	99
29) Chloroform	5.74	83	1477575	10.889	ppbv	97
30) Cyclohexane	7.13	84	801886	10.807	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	967104	10.633	ppbv	97
32) 1,1,1-Trichloroethane	6.51	97	1416519	10.714	ppbv	98
34) 2-Butanone	5.23	43	1467504	11.560	ppbv	100
35) Carbon Tetrachloride	7.02	117	1443184	12.147	ppbv	99
36) Benzene	6.89	78	1930402	11.337	ppbv	98
37) 1,2-Dichloroethane	6.30	62	1145973	11.936	ppbv	98
38) Trichloroethene	7.84	130	724613	11.205	ppbv	96
39) 1,2-Dichloropropane	7.62	63	749876	11.116	ppbv	94
40) 1,4-Dioxane	7.84	88	270371	10.612	ppbv #	94
41) Tetrahydrofuran	6.04	42	796513	11.596	ppbv	98
42) Bromodichloromethane	7.80	83	1547405	11.826	ppbv	97
43) Methyl Methacrylate	8.02	69	874983	12.198	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.87	57	3365811	11.698	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	997241	11.833	ppbv	97
46) cis-1,3-Dichloropropene	8.71	75	1164290	11.626	ppbv	96
47) 1,1,2-Trichloroethane	9.49	97	788359	11.387	ppbv	98
48) Dibromochloromethane	10.32	129	1247228	11.124	ppbv	100
49) Bromoform	13.07	173	1086605	10.870	ppbv	100
50) 4-Methyl-2-Pentanone	8.75	43	2178920	11.924	ppbv	99
51) 2-Hexanone	10.15	43	1740714	11.721	ppbv #	100
52) Tetrachloroethene	11.24	164	658468	9.775	ppbv	97
53) Toluene	9.82	91	2227397	11.328	ppbv	99
54) 1,2-Dibromoethane	10.63	107	1168885	11.216	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.15	131	951629	10.532	ppbv	95
57) Chlorobenzene	12.17	112	1637905	10.408	ppbv	95
58) Ethyl Benzene	12.73	91	2956841	10.855	ppbv	96
59) m/p-Xylene	13.02	91	4886123m	21.411	ppbv	
60) o-Xylene	13.72	91	2386377	10.710	ppbv	98
61) Styrene	13.55	104	1726783	11.043	ppbv	98
62) Isopropylbenzene	14.70	105	3499067	10.386	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.70	83	1673198	11.062	ppbv	99
64) n-propylbenzene	15.59	120	917476	10.463	ppbv	92
65) tert-Butylbenzene	16.78	119	3029323	10.286	ppbv	97
66) Benzyl Chloride	17.02	91	1260769	10.266	ppbv	96
67) sec-Butylbenzene	17.33	105	4356319	10.667	ppbv	98
69) p-Isopropyltoluene	17.69	119	3590670	10.486	ppbv	99
70) n-Butylbenzene	18.58	91	3853942	11.031	ppbv	99
71) 2-Chlorotoluene	15.48	91	2674552	10.483	ppbv	98
72) 4-Ethyltoluene	15.87	105	2833749	10.769	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	2673624	10.854	ppbv	95
74) 1,2,4-Trimethylbenzene	16.80	105	2779312	10.952	ppbv	94
75) 1,3-Dichlorobenzene	17.03	146	1590505	10.394	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1574195	10.309	ppbv	98
77) 1,2-Dichlorobenzene	17.86	146	1564150	10.545	ppbv	98
78) Hexachloro-1,3-Butadiene	23.42	225	1336809	10.791	ppbv	100
79) Naphthalene	22.25	128	2698976	13.637	ppbv	100
80) Naphthalene, 2-methyl-	25.01	142	963164	18.623	ppbv	98
81) 1,2,4-Trichlorobenzene	21.98	180	1529289	12.163	ppbv	99

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

