

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031020\
 Data File : VL034863.D
 Acq On : 10 Mar 2020 11:30
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 3/11/2020 3:17:10 PM

Quant Time: Mar 11 06:34:04 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	898756	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2036199	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2041050m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1644725	10.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1454876	11.821	ppbv	99
3) Chlorodifluoromethane	2.95	51	941839	9.381	ppbv	100
4) Chloromethane	3.10	50	554091	9.765	ppbv	99
5) Vinyl Chloride	3.22	62	515210	9.444	ppbv	96
6) Bromomethane	3.44	94	309816	9.756	ppbv	97
7) Chloroethane	3.52	64	188149	9.551	ppbv	96
8) Dichlorotetrafluoroethane	3.15	85	1167682	9.136	ppbv	97
9) Propene	2.97	41	435990	9.096	ppbv	100
10) Heptane	8.13	43	1139334	9.658	ppbv	99
11) Trichlorofluoromethane	3.92	101	1192266	9.106	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	844024	9.210	ppbv	99
13) Ethanol	3.57	45	102839m	7.057	ppbv	
14) Bromoethene	3.71	108	373353	9.434	ppbv	100
15) Acetone	3.82	43	1071939	9.202	ppbv	100
16) 1,3-Butadiene	3.29	39	504864	9.584	ppbv	97
17) tert-Butyl alcohol	4.27	59	809552	7.214	ppbv	99
18) 1,1-Dichloroethene	4.26	96	388943	9.584	ppbv	98
19) Isopropyl Alcohol	3.94	45	545392	7.414	ppbv #	41
20) Methylene Chloride	4.32	84	329638	8.950	ppbv	96
21) Allyl Chloride	4.39	41	702775	9.394	ppbv	100
22) trans-1,2-Dichloroethene	4.86	96	387898	9.422	ppbv	97
23) Vinyl Acetate	5.06	43	1666935	9.687	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1087017	9.423	ppbv	99
25) Ethyl Acetate	5.66	43	1914352	9.224	ppbv	100
26) Hexane	5.68	57	828797	9.274	ppbv	98
27) Carbon Disulfide	4.53	76	980622	9.670	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1346695	9.057	ppbv	98
29) Chloroform	5.74	83	1263403	9.266	ppbv	96
30) Cyclohexane	7.13	84	710945	9.535	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	873443	9.557	ppbv	98
32) 1,1,1-Trichloroethane	6.51	97	1261854	9.498	ppbv	99
34) 2-Butanone	5.23	43	1280379	9.462	ppbv	100
35) Carbon Tetrachloride	7.02	117	1298687	10.255	ppbv	98
36) Benzene	6.89	78	1705423	9.396	ppbv	99
37) 1,2-Dichloroethane	6.31	62	988988	9.664	ppbv	99
38) Trichloroethene	7.84	130	649768	9.426	ppbv	96
39) 1,2-Dichloropropane	7.62	63	675837	9.399	ppbv	95
40) 1,4-Dioxane	7.84	88	228720	8.422	ppbv #	95
41) Tetrahydrofuran	6.04	42	719264	9.823	ppbv	99
42) Bromodichloromethane	7.80	83	1353125	9.701	ppbv	98
43) Methyl Methacrylate	8.02	69	767331	10.035	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	2938321	9.580	ppbv	100
45) t-1,3-Dichloropropene	9.30	75	917953	10.218	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	1062897	9.957	ppbv	98
47) 1,1,2-Trichloroethane	9.49	97	687381	9.314	ppbv	97
48) Dibromochloromethane	10.33	129	1132724	9.478	ppbv	98
49) Bromoform	13.07	173	985597	9.249	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	1885208	9.678	ppbv	100
51) 2-Hexanone	10.15	43	1549646	9.789	ppbv	99
52) Tetrachloroethene	11.25	164	610347	8.500	ppbv	96
53) Toluene	9.83	91	1996233	9.524	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1051405	9.465	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.15	131	856354	9.340	ppbv #	58
57) Chlorobenzene	12.18	112	1462541	9.158	ppbv	98
58) Ethyl Benzene	12.74	91	2632046	9.522	ppbv	98
59) m/p-Xylene	13.02	91	4274558m	18.459	ppbv	
60) o-Xylene	13.72	91	2088028	9.235	ppbv	100
61) Styrene	13.56	104	1564771	9.862	ppbv	99
62) Isopropylbenzene	14.70	105	3115116	9.112	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	1418940	9.244	ppbv	98
64) n-propylbenzene	15.60	120	810459	9.108	ppbv	94
65) tert-Butylbenzene	16.78	119	2696395	9.022	ppbv	98
66) Benzyl Chloride	17.03	91	1323910	10.624	ppbv	99
67) sec-Butylbenzene	17.33	105	3829114	9.240	ppbv	99
69) p-Isopropyltoluene	17.69	119	3245116	9.339	ppbv	99
70) n-Butylbenzene	18.59	91	3366426	9.495	ppbv	99
71) 2-Chlorotoluene	15.49	91	2359543	9.114	ppbv	100
72) 4-Ethyltoluene	15.87	105	2501360	9.368	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	2358301	9.435	ppbv	98
74) 1,2,4-Trimethylbenzene	16.80	105	2428342	9.430	ppbv	95
75) 1,3-Dichlorobenzene	17.03	146	1409199	9.075	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1417211	9.146	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	1381345	9.178	ppbv	97
78) Hexachloro-1,3-Butadiene	23.42	225	1289345	10.256	ppbv	100
79) Naphthalene	22.26	128	2473436	12.316	ppbv	99
80) Naphthalene, 2-methyl-	25.01	142	921168	17.552	ppbv	100
81) 1,2,4-Trichlorobenzene	21.99	180	1415242	11.092	ppbv	100

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

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