

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110520\
 Data File : VL035890.D
 Acq On : 6 Nov 2020 16:03
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 11/9/2020 10:48:36 AM

Quant Time: Nov 07 00:06:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 07
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	959135	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3721372	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3704008m	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	2591327	9.85	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	2006215	11.110	ppbv	100
3) Chlorodifluoromethane	2.97	51	1285104	11.189	ppbv	99
4) Chloromethane	3.12	50	652576	11.695	ppbv	100
5) Vinyl Chloride	3.24	62	823058	11.571	ppbv	99
6) Bromomethane	3.46	94	666942	11.659	ppbv	100
7) Chloroethane	3.54	64	300808	12.016	ppbv	97
8) Dichlorotetrafluoroethane	3.17	85	2357674	11.408	ppbv	99
9) Propene	2.99	41	505039	12.013	ppbv	99
10) Heptane	8.11	43	1456017	12.539	ppbv #	70
11) Trichlorofluoromethane	3.93	101	2816671	12.422	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	2083883	12.344	ppbv	99
13) Ethanol	3.59	45	84349	9.248	ppbv	97
14) Bromoethene	3.72	108	877159	11.290	ppbv	99
15) Acetone	3.84	43	527394	5.143	ppbv	99
16) 1,3-Butadiene	3.31	39	585090	13.253	ppbv	87
17) tert-Butyl alcohol	4.28	59	459471	3.381	ppbv	98
18) 1,1-Dichloroethene	4.27	96	942699	12.162	ppbv	96
19) Isopropyl Alcohol	3.95	45	283738	4.503	ppbv #	96
20) Methylene Chloride	4.33	84	778409	10.784	ppbv	98
21) Allyl Chloride	4.39	41	652134	11.760	ppbv	97
22) trans-1,2-Dichloroethene	4.87	96	958400	12.197	ppbv	98
23) Vinyl Acetate	5.06	43	1520505	10.579	ppbv	100
24) 1,1-Dichloroethane	5.00	63	1606838	11.734	ppbv	99
25) Ethyl Acetate	5.66	43	1711290	8.472	ppbv #	95
26) Hexane	5.67	57	1297917	11.650	ppbv #	77
27) Carbon Disulfide	4.53	76	1986322	11.899	ppbv	100
28) Methyl tert-Butyl Ether	5.02	73	1559379	7.795	ppbv	100
29) Chloroform	5.74	83	2549478	11.643	ppbv	99
30) Cyclohexane	7.12	84	1370663	11.296	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	1356310	11.835	ppbv	98
32) 1,1,1-Trichloroethane	6.50	97	2510967	10.989	ppbv	99
34) 2-Butanone	5.23	43	568240	4.705	ppbv	98
35) Carbon Tetrachloride	7.01	117	2552170	12.836	ppbv	97
36) Benzene	6.88	78	3191147	11.535	ppbv	99
37) 1,2-Dichloroethane	6.29	62	1575632	12.571	ppbv	99
38) Trichloroethene	7.82	130	1487242	11.006	ppbv	98
39) 1,2-Dichloropropane	7.60	63	1095059	11.757	ppbv	98
40) 1,4-Dioxane	7.84	88	113014m	2.560	ppbv	
41) Tetrahydrofuran	6.04	42	201238	2.933	ppbv	95
42) Bromodichloromethane	7.78	83	2632495	12.448	ppbv	98
43) Methyl Methacrylate	8.00	69	762794	7.228	ppbv	97

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

44) 2,2,4-Trimethylpentane	7.86	57	4320752	11.802	ppbv	97
45) t-1,3-Dichloropropene	9.27	75	1151120	10.290	ppbv	97
46) cis-1,3-Dichloropropene	8.69	75	1506310	10.632	ppbv	99
47) 1,1,2-Trichloroethane	9.46	97	1408303	11.096	ppbv	99
48) Dibromochloromethane	10.29	129	2284531	11.782	ppbv	100
49) Bromoform	13.03	173	1683590	10.290	ppbv	100
50) 4-Methyl-2-Pentanone	8.74	43	729324	3.949	ppbv	97
51) 2-Hexanone	10.13	43	287271	1.936	ppbv #	95
52) Tetrachloroethene	11.21	164	1412380	10.776	ppbv	100
53) Toluene	9.79	91	3894465	11.666	ppbv	99
54) 1,2-Dibromoethane	10.60	107	2000903	10.367	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.12	131	1589448	9.561	ppbv	97
57) Chlorobenzene	12.14	112	2999895	10.186	ppbv	99
58) Ethyl Benzene	12.70	91	4723580	10.471	ppbv	100
59) m/p-Xylene	12.99	91	7954428m	20.841	ppbv	
60) o-Xylene	13.68	91	3795366	10.222	ppbv	99
61) Styrene	13.52	104	1640907	6.032	ppbv	99
62) Isopropylbenzene	14.66	105	5041605	8.639	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.67	83	2543808	8.842	ppbv	99
64) n-propylbenzene	15.55	120	1404204	8.325	ppbv	91
65) tert-Butylbenzene	16.74	119	4519569	8.509	ppbv	99
66) Benzyl Chloride	16.98	91	590062	3.361	ppbv	97
67) sec-Butylbenzene	17.29	105	6064207	8.472	ppbv	98
69) p-Isopropyltoluene	17.64	119	5154835	8.727	ppbv	99
70) n-Butylbenzene	18.54	91	5180082	9.106	ppbv	99
71) 2-Chlorotoluene	15.45	91	3782009	8.860	ppbv	98
72) 4-Ethyltoluene	15.83	105	4472598	9.932	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	3980028	9.658	ppbv	98
74) 1,2,4-Trimethylbenzene	16.75	105	4187044	9.482	ppbv	100
75) 1,3-Dichlorobenzene	16.99	146	2763273	9.828	ppbv	100
76) 1,4-Dichlorobenzene	17.13	146	2725416	10.049	ppbv	99
77) 1,2-Dichlorobenzene	17.81	146	2587268	9.440	ppbv	99
78) Hexachloro-1,3-Butadiene	23.37	225	1914058	14.967	ppbv	99
79) Naphthalene	22.19	128	4737242	15.390	ppbv	99
80) Naphthalene, 2-methyl-	24.97	142	1395031	27.810	ppbv	99
81) 1,2,4-Trichlorobenzene	21.92	180	2559685	14.884	ppbv	99

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

