

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081720\
 Data File : VL035423.D
 Acq On : 17 Aug 2020 16:07
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 8/20/2020 11:05:41 AM

Quant Time: Aug 17 16:41:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 17 2020
 QLast Update : Mon Aug 17 16:34:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1152621	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	5086008	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5124529	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	3655564	8.42	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	84.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	139622	0.912	ppbv	96
3) Chlorodifluoromethane	2.99	51	78123	0.529	ppbv	97
4) Chloromethane	3.14	50	39283	0.505	ppbv	100
5) Vinyl Chloride	3.26	62	47818	0.605	ppbv	92
6) Bromomethane	3.48	94	40942m	0.944	ppbv	
7) Chloroethane	3.56	64	18006	0.687	ppbv	91
8) Dichlorotetrafluoroethane	3.19	85	156504	0.897	ppbv #	61
9) Propene	3.01	41	32331	0.461	ppbv	96
10) Heptane	8.14	43	77707	0.439	ppbv #	79
11) Trichlorofluoromethane	3.96	101	185159	1.008	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	134844	1.127	ppbv #	76
13) Ethanol	3.62	45	13533	0.605	ppbv	99
14) Bromoethene	3.74	108	56085	1.069	ppbv #	98
15) Acetone	3.87	43	78841	0.520	ppbv #	76
16) 1,3-Butadiene	3.33	39	25906	0.373	ppbv #	57
17) tert-Butyl alcohol	4.31	59	87772	0.610	ppbv	98
18) 1,1-Dichloroethene	4.29	96	56344	1.048	ppbv #	61
19) Isopropyl Alcohol	3.99	45	48461	0.453	ppbv #	95
20) Methylene Chloride	4.35	84	65862	1.171	ppbv #	64
21) Allyl Chloride	4.42	41	32656	0.368	ppbv #	78
22) trans-1,2-Dichloroethene	4.90	96	60543	1.131	ppbv #	62
23) Vinyl Acetate	5.09	43	92425	0.416	ppbv #	94
24) 1,1-Dichloroethane	5.02	63	99101	0.625	ppbv #	97
25) Ethyl Acetate	5.70	43	140024	0.461	ppbv #	94
26) Hexane	5.70	57	77835	0.590	ppbv #	78
27) Carbon Disulfide	4.56	76	95534	0.743	ppbv #	88
28) Methyl tert-Butyl Ether	5.06	73	136293	0.669	ppbv #	90
29) Chloroform	5.76	83	154744	0.763	ppbv	99
30) Cyclohexane	7.14	84	80376	0.767	ppbv #	62
31) cis-1,2-Dichloroethene	5.56	61	78412	0.583	ppbv #	74
32) 1,1,1-Trichloroethane	6.53	97	141753	0.702	ppbv #	91
34) 2-Butanone	5.27	43	89814	0.229	ppbv #	75
35) Carbon Tetrachloride	7.03	117	144933	0.384	ppbv	98
36) Benzene	6.91	78	203527	0.394	ppbv #	89
37) 1,2-Dichloroethane	6.32	62	92762	0.291	ppbv #	90
38) Trichloroethene	7.85	130	109608	0.549	ppbv #	83
39) 1,2-Dichloropropane	7.63	63	65582	0.315	ppbv #	83
40) 1,4-Dioxane	7.89	88	36947m	0.459	ppbv	
41) Tetrahydrofuran	6.09	42	47652	0.216	ppbv #	66
42) Bromodichloromethane	7.81	83	141126	0.347	ppbv #	95
43) Methyl Methacrylate	8.04	69	73686	0.328	ppbv #	59

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

44) 2,2,4-Trimethylpentane	7.89	57	269436	0.299	ppbv #	91
45) t-1,3-Dichloropropene	9.30	75	62345	0.264	ppbv	97
46) cis-1,3-Dichloropropene	8.72	75	84124	0.294	ppbv #	74
47) 1,1,2-Trichloroethane	9.50	97	99527	0.476	ppbv	96
48) Dibromochloromethane	10.33	129	142012	0.466	ppbv	98
49) Bromoform	13.07	173	127449	0.532	ppbv	99
50) 4-Methyl-2-Pentanone	8.78	43	124771	0.220	ppbv #	83
51) 2-Hexanone	10.18	43	100017	0.208	ppbv #	81
52) Tetrachloroethene	11.25	164	124373	0.677	ppbv #	77
53) Toluene	9.83	91	254985	0.434	ppbv	100
54) 1,2-Dibromoethane	10.63	107	159826m	0.495	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.15	131	125208	0.497	ppbv #	1
57) Chlorobenzene	12.18	112	249457	0.539	ppbv #	77
58) Ethyl Benzene	12.73	91	342866	0.404	ppbv	94
59) m/p-Xylene	13.02	91	584309m	0.826	ppbv	
60) o-Xylene	13.72	91	283562	0.407	ppbv	89
61) Styrene	13.55	104	212846	0.447	ppbv #	86
62) Isopropylbenzene	14.70	105	483709	0.471	ppbv	95
63) 1,1,2,2-Tetrachloroethane	13.70	83	211706	0.392	ppbv	97
64) n-propylbenzene	15.60	120	139085	0.534	ppbv	70
65) tert-Butylbenzene	16.78	119	457349	0.519	ppbv #	79
66) Benzyl Chloride	17.02	91	68793m	0.239	ppbv	
67) sec-Butylbenzene	17.33	105	619568	0.476	ppbv	92
69) p-Isopropyltoluene	17.69	119	531863	0.502	ppbv #	88
70) n-Butylbenzene	18.59	91	512501	0.414	ppbv #	93
71) 2-Chlorotoluene	15.49	91	338523	0.403	ppbv	82
72) 4-Ethyltoluene	15.87	105	363758	0.446	ppbv #	92
73) 1,3,5-Trimethylbenzene	16.03	105	334414	0.434	ppbv	90
74) 1,2,4-Trimethylbenzene	16.80	105	384748	0.466	ppbv #	88
75) 1,3-Dichlorobenzene	17.03	146	302496	0.674	ppbv	92
76) 1,4-Dichlorobenzene	17.17	146	289830	0.629	ppbv	90
77) 1,2-Dichlorobenzene	17.85	146	289662	0.640	ppbv	91
78) Hexachloro-1,3-Butadiene	23.42	225	232520	0.669	ppbv	99
79) Naphthalene	22.25	128	504798	0.524	ppbv	96
80) Naphthalene, 2-methyl-	25.01	142	172210	0.429	ppbv #	91
81) 1,2,4-Trichlorobenzene	21.98	180	308797	0.676	ppbv	96

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

