

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081220\
 Data File : VL035381.D
 Acq On : 12 Aug 2020 11:57
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 8/17/2020 5:43:44 PM

Quant Time: Aug 12 15:21:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081220AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 12 15:19:58 2020
 QLast Update : Wed Aug 12 15:19:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1356259	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3293333	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	3249004	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2555322	9.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1323689	7.337	ppbv	100
3) Chlorodifluoromethane	2.98	51	1401414	9.052	ppbv	100
4) Chloromethane	3.13	50	795401	9.074	ppbv	100
5) Vinyl Chloride	3.25	62	766366	8.500	ppbv	100
6) Bromomethane	3.47	94	434734	7.871	ppbv	100
7) Chloroethane	3.55	64	275115	8.216	ppbv	100
8) Dichlorotetrafluoroethane	3.18	85	1644756	7.714	ppbv	100
9) Propene	3.00	41	712109	12.908	ppbv	100
10) Heptane	8.14	43	1851442	13.138	ppbv	100
11) Trichlorofluoromethane	3.95	101	1719729	7.358	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1183550	7.085	ppbv	100
13) Ethanol	3.60	45	202259	10.630	ppbv	100
14) Bromoethene	3.74	108	546281	8.155	ppbv	100
15) Acetone	3.85	43	1387217	7.203	ppbv	100
16) 1,3-Butadiene	3.32	39	739667	9.978	ppbv	100
17) tert-Butyl alcohol	4.29	59	1832262	10.365	ppbv	100
18) 1,1-Dichloroethene	4.29	96	551372	7.686	ppbv	100
19) Isopropyl Alcohol	3.97	45	1214739	9.950	ppbv	100
20) Methylene Chloride	4.34	84	518706	6.604	ppbv	100
21) Allyl Chloride	4.41	41	1016971	9.216	ppbv	100
22) trans-1,2-Dichloroethene	4.89	96	570444	8.201	ppbv	100
23) Vinyl Acetate	5.08	43	2398339	12.987	ppbv	100
24) 1,1-Dichloroethane	5.01	63	1578859	9.097	ppbv	100
25) Ethyl Acetate	5.68	43	3036658	10.377	ppbv	100
26) Hexane	5.69	57	1321125	10.408	ppbv	100
27) Carbon Disulfide	4.55	76	1537897	8.664	ppbv	100
28) Methyl tert-Butyl Ether	5.04	73	2196708	11.902	ppbv	100
29) Chloroform	5.76	83	1933415	8.835	ppbv	100
30) Cyclohexane	7.14	84	1104924	11.479	ppbv	100
31) cis-1,2-Dichloroethene	5.55	61	1356589	12.022	ppbv	100
32) 1,1,1-Trichloroethane	6.52	97	1945559	8.459	ppbv	100
34) 2-Butanone	5.25	43	2023870	12.481	ppbv	100
35) Carbon Tetrachloride	7.03	117	1928141	8.508	ppbv	100
36) Benzene	6.90	78	2706773	12.172	ppbv	100
37) 1,2-Dichloroethane	6.32	62	1490608	9.595	ppbv	100
38) Trichloroethene	7.85	130	976303	9.517	ppbv	100
39) 1,2-Dichloropropane	7.63	63	1072506	11.913	ppbv	100
40) 1,4-Dioxane	7.84	88	424809	11.018	ppbv	100
41) Tetrahydrofuran	6.06	42	1234652	15.515	ppbv	100
42) Bromodichloromethane	7.81	83	2147119	10.291	ppbv	100
43) Methyl Methacrylate	8.03	69	1244540	13.302	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	4530830	11.468	ppbv	100
45) t-1,3-Dichloropropene	9.30	75	1494523	15.399	ppbv	100
46) cis-1,3-Dichloropropene	8.72	75	1694493	14.457	ppbv	100
47) 1,1,2-Trichloroethane	9.49	97	1089730	10.067	ppbv	100
48) Dibromochloromethane	10.33	129	1810933	10.213	ppbv	100
49) Bromoform	13.07	173	1552600	9.609	ppbv	100
50) 4-Methyl-2-Pentanone	8.76	43	3026911	12.226	ppbv	100
51) 2-Hexanone	10.15	43	2599102	13.391	ppbv	100
52) Tetrachloroethene	11.25	164	897270	10.177	ppbv	100
53) Toluene	9.83	91	3147736	13.012	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1694945	10.914	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.15	131	1344960	8.770	ppbv	98
57) Chlorobenzene	12.17	112	2305786	9.425	ppbv	100
58) Ethyl Benzene	12.74	91	4255921	12.589	ppbv	100
59) m/p-Xylene	13.02	91	6920187m	21.983	ppbv	
60) o-Xylene	13.72	91	3346952	10.714	ppbv	100
61) Styrene	13.55	104	2625612	13.762	ppbv	100
62) Isopropylbenzene	14.70	105	5021398	10.676	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.71	83	2335948	8.765	ppbv	100
64) n-propylbenzene	15.59	120	1385128	10.958	ppbv	100
65) tert-Butylbenzene	16.78	119	4324854	10.041	ppbv	100
66) Benzyl Chloride	17.02	91	2283902	13.397	ppbv	100
67) sec-Butylbenzene	17.33	105	6221043	10.211	ppbv	100
69) p-Isopropyltoluene	17.68	119	5234689	10.539	ppbv	100
70) n-Butylbenzene	18.58	91	5639676	10.615	ppbv	100
71) 2-Chlorotoluene	15.48	91	4075649	11.829	ppbv	100
72) 4-Ethyltoluene	15.87	105	4125633	11.583	ppbv	100
73) 1,3,5-Trimethylbenzene	16.03	105	3869384	11.322	ppbv	100
74) 1,2,4-Trimethylbenzene	16.79	105	3856128	9.872	ppbv	100
75) 1,3-Dichlorobenzene	17.03	146	2195011	8.590	ppbv	100
76) 1,4-Dichlorobenzene	17.17	146	2296973	9.706	ppbv	100
77) 1,2-Dichlorobenzene	17.84	146	2206949	9.358	ppbv	100
78) Hexachloro-1,3-Butadiene	23.41	225	1736447	8.654	ppbv	100
79) Naphthalene	22.24	128	4845433	16.128	ppbv	100
80) Naphthalene, 2-methyl-	24.99	142	2346204	34.329	ppbv	99
81) 1,2,4-Trichlorobenzene	21.97	180	2288271	12.085	ppbv	100

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

