

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012821\
 Data File : VL036290.D
 Acq On : 29 Jan 2021 11:12
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 2/1/2021 1:54:01 PM

Quant Time: Jan 30 00:19:38 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 14 2021
 QLast Update : Thu Jan 14 16:13:38 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1489505	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3355743	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3091076m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2746103	10.73	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1950015	9.766	ppbv	99
3) Chlorodifluoromethane	2.98	51	1716818	9.385	ppbv	98
4) Chloromethane	3.13	50	825589	9.131	ppbv	100
5) Vinyl Chloride	3.25	62	830651	9.709	ppbv	100
6) Bromomethane	3.47	94	447667	9.359	ppbv	96
7) Chloroethane	3.55	64	290856	9.872	ppbv	98
8) Dichlorotetrafluoroethane	3.18	85	1930659	9.981	ppbv	97
9) Propene	3.00	41	747674	8.583	ppbv	98
10) Heptane	8.12	43	1964046	9.083	ppbv	98
11) Trichlorofluoromethane	3.94	101	2042236	10.061	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1259917	10.238	ppbv	96
13) Ethanol	3.60	45	108918	7.963	ppbv	94
14) Bromoethene	3.73	108	559830	9.990	ppbv	96
15) Acetone	3.84	43	1581858	8.671	ppbv	98
16) 1,3-Butadiene	3.32	39	811180	9.128	ppbv	99
17) tert-Butyl alcohol	4.29	59	1457357	9.681	ppbv	100
18) 1,1-Dichloroethene	4.28	96	551938	9.674	ppbv	93
19) Isopropyl Alcohol	3.96	45	985821	8.964	ppbv	100
20) Methylene Chloride	4.34	84	479820	8.241	ppbv	95
21) Allyl Chloride	4.40	41	956729	9.635	ppbv	95
22) trans-1,2-Dichloroethene	4.88	96	528979	10.035	ppbv	98
23) Vinyl Acetate	5.07	43	2178130	9.854	ppbv	98
24) 1,1-Dichloroethane	5.00	63	1540217	9.619	ppbv	99
25) Ethyl Acetate	5.67	43	3273168	8.937	ppbv	100
26) Hexane	5.68	57	1330251	8.724	ppbv	99
27) Carbon Disulfide	4.54	76	1397471	11.461	ppbv	98
28) Methyl tert-Butyl Ether	5.03	73	1929225	9.356	ppbv	96
29) Chloroform	5.75	83	2167920	9.930	ppbv	93
30) Cyclohexane	7.12	84	1130153	9.699	ppbv	99
31) cis-1,2-Dichloroethene	5.55	61	1367464	9.383	ppbv	97
32) 1,1,1-Trichloroethane	6.50	97	2140246	10.136	ppbv	99
34) 2-Butanone	5.24	43	2050820	8.299	ppbv	98
35) Carbon Tetrachloride	7.01	117	2182256	10.293	ppbv	99
36) Benzene	6.89	78	2805264	9.123	ppbv	97
37) 1,2-Dichloroethane	6.30	62	1741150	9.410	ppbv	99
38) Trichloroethene	7.83	130	949298	8.336	ppbv	96
39) 1,2-Dichloropropane	7.61	63	1146185	9.181	ppbv	99
40) 1,4-Dioxane	7.83	88	364070	8.062	ppbv #	1
41) Tetrahydrofuran	6.04	42	1210838	8.478	ppbv	99
42) Bromodichloromethane	7.79	83	2360062	10.149	ppbv	96
43) Methyl Methacrylate	8.01	69	1237860	9.473	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	4824759	8.543	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	1350885	10.884	ppbv	97
46) cis-1,3-Dichloropropene	8.70	75	1636693	10.262	ppbv	98
47) 1,1,2-Trichloroethane	9.47	97	1094788	9.167	ppbv	94
48) Dibromochloromethane	10.30	129	1791219	10.251	ppbv	100
49) Bromoform	13.04	173	1429648	9.802	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	3242113	8.799	ppbv	100
51) 2-Hexanone	10.13	43	2668139	9.179	ppbv #	100
52) Tetrachloroethene	11.22	164	876807	7.738	ppbv	96
53) Toluene	9.80	91	3109793	9.041	ppbv	100
54) 1,2-Dibromoethane	10.61	107	1622104	9.162	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.12	131	1340400	9.717	ppbv	94
57) Chlorobenzene	12.15	112	2145978	8.849	ppbv	98
58) Ethyl Benzene	12.71	91	4153449	9.055	ppbv	99
59) m/p-Xylene	13.00	91	7062199m	17.918	ppbv	
60) o-Xylene	13.69	91	3267767	8.601	ppbv	99
61) Styrene	13.53	104	2263817	9.436	ppbv	100
62) Isopropylbenzene	14.67	105	4817965	8.530	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.68	83	2270559	8.027	ppbv	99
64) n-propylbenzene	15.56	120	1230611	8.867	ppbv	100
65) tert-Butylbenzene	16.74	119	3955284	8.263	ppbv	100
66) Benzyl Chloride	16.99	91	1292941	10.573	ppbv	100
67) sec-Butylbenzene	17.29	105	5634994	7.931	ppbv	100
69) p-Isopropyltoluene	17.65	119	4499181	7.984	ppbv	100
70) n-Butylbenzene	18.55	91	4683284	7.800	ppbv	100
71) 2-Chlorotoluene	15.45	91	3717581	8.373	ppbv	99
72) 4-Ethyltoluene	15.84	105	3634621	8.478	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	3406035	8.334	ppbv	99
74) 1,2,4-Trimethylbenzene	16.76	105	3421764	8.162	ppbv	99
75) 1,3-Dichlorobenzene	17.00	146	1769535	7.870	ppbv	99
76) 1,4-Dichlorobenzene	17.14	146	1748114	7.870	ppbv	100
77) 1,2-Dichlorobenzene	17.82	146	1693267	7.710	ppbv	100
78) Hexachloro-1,3-Butadiene	23.38	225	1304765	7.428	ppbv	99
79) Naphthalene	22.20	128	2477847	10.112	ppbv	98
80) Naphthalene, 2-methyl-	24.98	142	794038	15.186	ppbv	100
81) 1,2,4-Trichlorobenzene	21.93	180	1329402	9.292	ppbv	99

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

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