

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092321\
 Data File : VL037654.D
 Acq On : 23 Sep 2021 9:32
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 9/27/2021 10:56:23 AM

Quant Time: Sep 24 12:11:33 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 1
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1629712	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4809559	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	4525486m	10.00	ppbv	0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.42	95	3240764	9.91	ppbv	0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	2092483m	7.095	ppbv	
3) Chlorodifluoromethane	2.99	51	2691227	8.755	ppbv	98
4) Chloromethane	3.14	50	1009258	8.886	ppbv	97
5) Vinyl Chloride	3.26	62	1011648	9.483	ppbv	99
6) Bromomethane	3.48	94	518092	8.356	ppbv	90
7) Chloroethane	3.56	64	349447	8.765	ppbv	100
8) Dichlorotetrafluoroethane	3.19	85	2199799	8.647	ppbv	99
9) Propene	3.01	41	1019294	9.400	ppbv	94
10) Heptane	8.13	43	2421398	9.570	ppbv	99
11) Trichlorofluoromethane	3.95	101	2055569	8.682	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1522393	8.711	ppbv	100
13) Ethanol	3.61	45	106396m	10.031	ppbv	
14) Bromoethene	3.74	108	713787	8.973	ppbv	98
15) Acetone	3.85	43	1175658m	6.943	ppbv	
16) 1,3-Butadiene	3.33	39	979679	9.259	ppbv	98
17) tert-Butyl alcohol	4.28	59	1446884	10.077	ppbv	100
18) 1,1-Dichloroethene	4.29	96	698562	8.581	ppbv	93
19) Isopropyl Alcohol	3.96	45	832386	9.035	ppbv	# 96
20) Methylene Chloride	4.35	84	592807	7.333	ppbv	93
21) Allyl Chloride	4.41	41	1127355	8.912	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	718221	8.768	ppbv	98
23) Vinyl Acetate	5.07	43	2250391	9.604	ppbv	98
24) 1,1-Dichloroethane	5.01	63	1428199	8.509	ppbv	96
25) Ethyl Acetate	5.68	43	3753480	9.153	ppbv	99
26) Hexane	5.69	57	1819416	9.339	ppbv	99
27) Carbon Disulfide	4.55	76	1723774	9.672	ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	1581925	9.219	ppbv	99
29) Chloroform	5.75	83	2523828	8.872	ppbv	98
30) Cyclohexane	7.13	84	1528749	9.176	ppbv	99
31) cis-1,2-Dichloroethene	5.55	61	1708859	9.663	ppbv	100
32) 1,1,1-Trichloroethane	6.51	97	2439482	9.211	ppbv	99
34) 2-Butanone	5.25	43	1675793	8.574	ppbv	100
35) Carbon Tetrachloride	7.02	117	2528040	9.292	ppbv	98
36) Benzene	6.89	78	3751877	9.355	ppbv	99
37) 1,2-Dichloroethane	6.31	62	1741364	8.828	ppbv	100
38) Trichloroethene	7.84	130	1464275	8.740	ppbv	97
39) 1,2-Dichloropropane	7.62	63	1417469	9.228	ppbv	95
40) 1,4-Dioxane	7.83	88	362609m	9.704	ppbv	
41) Tetrahydrofuran	6.05	42	890778	9.695	ppbv	99
42) Bromodichloromethane	7.79	83	2711263	9.590	ppbv	98
43) Methyl Methacrylate	8.02	69	1352640	10.138	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	6197114	9.191	ppbv	100
45) t-1,3-Dichloropropene	9.28	75	1011141	9.648	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1351691	9.548	ppbv	99
47) 1,1,2-Trichloroethane	9.48	97	1511422	8.895	ppbv	97
48) Dibromochloromethane	10.31	129	2379240	10.037	ppbv	98
49) Bromoform	13.05	173	1944738	10.250	ppbv	97
50) 4-Methyl-2-Pentanone	8.74	43	2391032	9.638	ppbv	99
51) 2-Hexanone	10.14	43	1122553	10.256	ppbv	98
52) Tetrachloroethene	11.23	164	1373683	8.922	ppbv	97
53) Toluene	9.81	91	4330110	9.713	ppbv	99
54) 1,2-Dibromoethane	10.62	107	2133716	9.171	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.13	131	1611261	8.584	ppbv	94
57) Chlorobenzene	12.15	112	3116105	8.282	ppbv	99
58) Ethyl Benzene	12.72	91	5544786	9.230	ppbv	100
59) m/p-Xylene	13.00	91	9087163m	17.358	ppbv	
60) o-Xylene	13.70	91	4273698	8.577	ppbv	99
61) Styrene	13.53	104	2412030	9.817	ppbv	98
62) Isopropylbenzene	14.67	105	5978889	8.589	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.68	83	3017025	7.737	ppbv	98
64) n-propylbenzene	15.56	120	1591669	8.861	ppbv	88
65) tert-Butylbenzene	16.75	119	5257831	8.378	ppbv	99
66) Benzyl Chloride	16.99	91	281815	8.217	ppbv	99
67) sec-Butylbenzene	17.29	105	7241299	8.504	ppbv	99
69) p-Isopropyltoluene	17.65	119	6064450	8.718	ppbv	100
70) n-Butylbenzene	18.55	91	5909781	8.979	ppbv	100
71) 2-Chlorotoluene	15.45	91	4360392	8.741	ppbv	99
72) 4-Ethyltoluene	15.84	105	5243799	9.168	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	4616219	8.658	ppbv	99
74) 1,2,4-Trimethylbenzene	16.76	105	4722753	8.410	ppbv #	93
75) 1,3-Dichlorobenzene	17.00	146	2929452	8.396	ppbv	99
76) 1,4-Dichlorobenzene	17.14	146	2808774	8.162	ppbv	100
77) 1,2-Dichlorobenzene	17.81	146	2780465	8.402	ppbv	99
78) Hexachloro-1,3-Butadiene	23.37	225	2043629	7.338	ppbv	99
79) Naphthalene	22.19	128	3479115	10.090	ppbv	99
80) Naphthalene,2-methyl-	24.97	142	987526	12.530	ppbv	97
81) 1,2,4-Trichlorobenzene	21.92	180	2077888	9.386	ppbv	99

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

