

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\
 Data File : VL038096.D
 Acq On : 23 Nov 2021 12:31
 Operator : SY/AP
 Sample : VL1123ABS01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VL1123ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/25/2021
 Supervised By : Mahesh Dadoda 11/29/2021

Quant Time: Nov 24 07:18:12 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	945651	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2736421	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2454548m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1955386	11.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	1174534	7.519	ppbv	99
3) Chlorodifluoromethane	3.00	51	1891579	9.525	ppbv	99
4) Chloromethane	3.15	50	629197	9.307	ppbv	98
5) Vinyl Chloride	3.27	62	641786	9.677	ppbv	99
6) Bromomethane	3.48	94	340492	9.584	ppbv	100
7) Chloroethane	3.56	64	205190	8.718	ppbv	94
8) Dichlorotetrafluoroethane	3.20	85	1478821	9.517	ppbv	96
9) Propene	3.02	41	632210	8.644	ppbv	97
10) Heptane	8.12	43	1600511	8.854	ppbv	100
11) Trichlorofluoromethane	3.96	101	1433797	9.651	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1003296	9.547	ppbv	100
13) Ethanol	3.61	45	57595m	8.149	ppbv	
14) Bromoethene	3.75	108	438960	9.328	ppbv	99
15) Acetone	3.86	43	715913	8.732	ppbv	99
16) 1,3-Butadiene	3.33	39	605541	9.467	ppbv	97
17) tert-Butyl alcohol	4.29	59	842575	8.472	ppbv	99
18) 1,1-Dichloroethene	4.29	96	459979	9.542	ppbv	94
19) Isopropyl Alcohol	3.97	45	450718	7.608	ppbv #	95
20) Methylene Chloride	4.35	84	400851	8.729	ppbv	97
21) Allyl Chloride	4.42	41	697274	9.188	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	482949	9.891	ppbv	96
23) Vinyl Acetate	5.08	43	1101566	9.281	ppbv	98
24) 1,1-Dichloroethane	5.02	63	957537	9.688	ppbv	98
25) Ethyl Acetate	5.68	43	2448212	8.984	ppbv	99
26) Hexane	5.69	57	1183172	9.008	ppbv	96
27) Carbon Disulfide	4.56	76	1147355	9.752	ppbv	98
28) Methyl tert-Butyl Ether	5.04	73	1070072	9.591	ppbv	99
29) Chloroform	5.75	83	1825249	9.429	ppbv	98
30) Cyclohexane	7.13	84	1047744	8.787	ppbv	99
31) cis-1,2-Dichloroethene	5.55	61	1185509	9.489	ppbv	93
32) 1,1,1-Trichloroethane	6.51	97	1868420	9.511	ppbv	98
34) 2-Butanone	5.25	43	831205	7.533	ppbv	100
35) Carbon Tetrachloride	7.02	117	1906267	9.915	ppbv	99
36) Benzene	6.90	78	2527477	9.259	ppbv	99
37) 1,2-Dichloroethane	6.31	62	1396939	10.596	ppbv	98
38) Trichloroethene	7.83	130	903045	8.771	ppbv	97
39) 1,2-Dichloropropane	7.61	63	994968	9.502	ppbv	95
40) 1,4-Dioxane	7.83	88	247197m	9.062	ppbv	
41) Tetrahydrofuran	6.05	42	632828	9.239	ppbv	99
42) Bromodichloromethane	7.79	83	2023032	10.094	ppbv	98
43) Methyl Methacrylate	8.02	69	938205	10.047	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	4120550	9.023	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	822425	10.979	ppbv	97
46) cis-1,3-Dichloropropene	8.71	75	1040592	10.271	ppbv	97
47) 1,1,2-Trichloroethane	9.47	97	1010170	9.212	ppbv	95
48) Dibromochloromethane	10.30	129	1641518	9.829	ppbv	98
49) Bromoform	13.04	173	1178191	9.861	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	1625750	9.702	ppbv	100
51) 2-Hexanone	10.14	43	754900	9.575	ppbv #	99
52) Tetrachloroethene	11.22	164	826280	8.181	ppbv	99
53) Toluene	9.81	91	2853093	9.084	ppbv	99
54) 1,2-Dibromoethane	10.61	107	1455113	9.394	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.12	131	1054258	9.461	ppbv	99
57) Chlorobenzene	12.14	112	1996525	9.075	ppbv	97
58) Ethyl Benzene	12.71	91	3705509	9.134	ppbv	99
59) m/p-Xylene	13.00	91	6130653m	17.952	ppbv	
60) o-Xylene	13.69	91	2876549	9.080	ppbv	97
61) Styrene	13.52	104	1552417	9.140	ppbv	95
62) Isopropylbenzene	14.66	105	3947323	8.778	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	2004283	8.517	ppbv	99
64) n-propylbenzene	15.56	120	1024630	8.944	ppbv	95
65) tert-Butylbenzene	16.74	119	3346630	8.447	ppbv	98
66) Benzyl Chloride	16.99	91	174507	8.691	ppbv	97
67) sec-Butylbenzene	17.29	105	4718956	8.548	ppbv	100
69) p-Isopropyltoluene	17.64	119	3772271	8.735	ppbv	98
70) n-Butylbenzene	18.55	91	3749972	9.082	ppbv	99
71) 2-Chlorotoluene	15.45	91	2950080	8.973	ppbv	98
72) 4-Ethyltoluene	15.83	105	3357601	9.141	ppbv	98
73) 1,3,5-Trimethylbenzene	15.99	105	3031814	9.037	ppbv	99
74) 1,2,4-Trimethylbenzene	16.76	105	3028284	8.760	ppbv	96
75) 1,3-Dichlorobenzene	16.99	146	1691210	8.907	ppbv	99
76) 1,4-Dichlorobenzene	17.13	146	1636169	8.563	ppbv	99
77) 1,2-Dichlorobenzene	17.81	146	1584286	8.617	ppbv	100
78) Hexachloro-1,3-Butadiene	23.37	225	869307	7.573	ppbv	98
79) Naphthalene	22.19	128	1659917	9.117	ppbv	99
80) Naphthalene,2-methyl-	24.96	142	346886	8.891	ppbv	98
81) 1,2,4-Trichlorobenzene	21.92	180	894860	8.554	ppbv	97

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

