

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\
 Data File : VL038094.D
 Acq On : 23 Nov 2021 10:22
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

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

Quant Time: Nov 24 07:04:41 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	960316	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2864819	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2610443m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2075828	11.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	1447007	9.122	ppbv	97
3) Chlorodifluoromethane	3.00	51	1924782	9.544	ppbv	99
4) Chloromethane	3.15	50	658487	9.592	ppbv	97
5) Vinyl Chloride	3.27	62	671928	9.977	ppbv	99
6) Bromomethane	3.48	94	351860	9.753	ppbv	96
7) Chloroethane	3.56	64	231152	9.671	ppbv	93
8) Dichlorotetrafluoroethane	3.20	85	1606612	10.181	ppbv	97
9) Propene	3.02	41	650244	8.755	ppbv	96
10) Heptane	8.12	43	1665244	9.072	ppbv	100
11) Trichlorofluoromethane	3.96	101	1566804	10.386	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1120437	10.499	ppbv	100
13) Ethanol	3.63	45	57093m	7.954	ppbv	
14) Bromoethene	3.75	108	479574	10.036	ppbv	99
15) Acetone	3.86	43	772080	9.273	ppbv	99
16) 1,3-Butadiene	3.34	39	637919	9.821	ppbv	98
17) tert-Butyl alcohol	4.30	59	921835	9.127	ppbv	100
18) 1,1-Dichloroethene	4.29	96	501731	10.249	ppbv	98
19) Isopropyl Alcohol	3.98	45	457680	7.608	ppbv	100
20) Methylene Chloride	4.35	84	440280	9.441	ppbv	96
21) Allyl Chloride	4.42	41	755183	9.799	ppbv	97
22) trans-1,2-Dichloroethene	4.89	96	545108	10.993	ppbv	98
23) Vinyl Acetate	5.08	43	1263450	10.483	ppbv	99
24) 1,1-Dichloroethane	5.02	63	1076559	10.726	ppbv	98
25) Ethyl Acetate	5.68	43	2485718	8.983	ppbv	99
26) Hexane	5.69	57	1200729	9.003	ppbv	96
27) Carbon Disulfide	4.56	76	1266734	10.602	ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	1192349	10.524	ppbv	100
29) Chloroform	5.76	83	1862644	9.476	ppbv	100
30) Cyclohexane	7.13	84	1096453	9.055	ppbv	99
31) cis-1,2-Dichloroethene	5.55	61	1159221	9.137	ppbv	96
32) 1,1,1-Trichloroethane	6.52	97	1945338	9.751	ppbv	99
34) 2-Butanone	5.25	43	854196	7.395	ppbv	98
35) Carbon Tetrachloride	7.02	117	1963562	9.755	ppbv	100
36) Benzene	6.89	78	2643240	9.249	ppbv	100
37) 1,2-Dichloroethane	6.31	62	1437808	10.418	ppbv	98
38) Trichloroethene	7.83	130	946912	8.784	ppbv	99
39) 1,2-Dichloropropane	7.62	63	1032541	9.419	ppbv	96
40) 1,4-Dioxane	7.84	88	237862	8.329	ppbv #	1
41) Tetrahydrofuran	6.05	42	635942	8.868	ppbv	98
42) Bromodichloromethane	7.79	83	2123260	10.119	ppbv	100
43) Methyl Methacrylate	8.02	69	964429	9.864	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	4244843	8.878	ppbv	100
45) t-1,3-Dichloropropene	9.28	75	877810	11.193	ppbv	97
46) cis-1,3-Dichloropropene	8.70	75	1087983	10.257	ppbv	97
47) 1,1,2-Trichloroethane	9.47	97	1043894	9.092	ppbv	92
48) Dibromochloromethane	10.30	129	1705219	9.753	ppbv	99
49) Bromoform	13.04	173	1236489	9.885	ppbv	98
50) 4-Methyl-2-Pentanone	8.74	43	1720928	9.810	ppbv	100
51) 2-Hexanone	10.14	43	795542	9.639	ppbv #	98
52) Tetrachloroethene	11.22	164	867009	8.199	ppbv	99
53) Toluene	9.81	91	2968016	9.027	ppbv	99
54) 1,2-Dibromoethane	10.61	107	1483336	9.147	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.12	131	1100012	9.283	ppbv	99
57) Chlorobenzene	12.14	112	2069004	8.843	ppbv	97
58) Ethyl Benzene	12.71	91	3844646	8.911	ppbv	100
59) m/p-Xylene	12.99	91	6320057m	17.401	ppbv	
60) o-Xylene	13.69	91	2913824	8.648	ppbv	98
61) Styrene	13.53	104	1613282	8.931	ppbv	96
62) Isopropylbenzene	14.67	105	4098914	8.571	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	2061633	8.238	ppbv	99
64) n-propylbenzene	15.56	120	1061636	8.714	ppbv	95
65) tert-Butylbenzene	16.74	119	3475777	8.249	ppbv	98
66) Benzyl Chloride	16.99	91	186233	8.721	ppbv	100
67) sec-Butylbenzene	17.29	105	4902340	8.350	ppbv	99
69) p-Isopropyltoluene	17.65	119	3927652	8.552	ppbv	98
70) n-Butylbenzene	18.54	91	3853411	8.775	ppbv	99
71) 2-Chlorotoluene	15.45	91	3060297	8.752	ppbv	99
72) 4-Ethyltoluene	15.83	105	3526912	9.028	ppbv	98
73) 1,3,5-Trimethylbenzene	16.00	105	3073272	8.614	ppbv	99
74) 1,2,4-Trimethylbenzene	16.76	105	3139309	8.539	ppbv	95
75) 1,3-Dichlorobenzene	16.99	146	1734286	8.588	ppbv	99
76) 1,4-Dichlorobenzene	17.13	146	1707526	8.403	ppbv	100
77) 1,2-Dichlorobenzene	17.82	146	1652896	8.453	ppbv	100
78) Hexachloro-1,3-Butadiene	23.37	225	896965	7.347	ppbv	99
79) Naphthalene	22.19	128	1714488	8.855	ppbv	97
80) Naphthalene,2-methyl-	24.97	142	334025	8.050	ppbv	97
81) 1,2,4-Trichlorobenzene	21.92	180	920574	8.274	ppbv	97

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

