

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\
 Data File : VL038052.D
 Acq On : 18 Nov 2021 12:35
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Quant Time: Nov 18 13:09:06 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Thu Nov 18 10:39:10 2021

Response via : Initial Calibration

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	892616	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2727312	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2562060m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1883111m	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	1463284	8.058	ppbv 96
3) Chlorodifluoromethane	3.00	51	2500935	10.778	ppbv 100
4) Chloromethane	3.15	50	906812	10.982	ppbv 97
5) Vinyl Chloride	3.26	62	890558	11.237	ppbv 97
6) Bromomethane	3.48	94	484668	11.442	ppbv 99
7) Chloroethane	3.56	64	309825	11.115	ppbv 95
8) Dichlorotetrafluoroethane	3.19	85	1851183	9.842	ppbv 100
9) Propene	3.02	41	918790	10.498	ppbv 98
10) Heptane	8.12	43	2249467	10.443	ppbv 100
11) Trichlorofluoromethane	3.96	101	1877167	10.463	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1307047	9.399	ppbv 99
13) Ethanol	3.61	45	80090m	10.322	ppbv
14) Bromoethene	3.74	108	636161	10.941	ppbv 95
15) Acetone	3.85	43	1015745	9.679	ppbv 98
16) 1,3-Butadiene	3.33	39	846025	10.886	ppbv 98
17) tert-Butyl alcohol	4.29	59	1218488	8.645	ppbv 99
18) 1,1-Dichloroethene	4.29	96	614688	9.577	ppbv 98
19) Isopropyl Alcohol	3.97	45	672793	8.754	ppbv 100
20) Methylene Chloride	4.35	84	515114	8.368	ppbv 99
21) Allyl Chloride	4.42	41	967649	9.214	ppbv 100
22) trans-1,2-Dichloroethene	4.89	96	657868	10.159	ppbv 96
23) Vinyl Acetate	5.08	43	1611263	9.269	ppbv 98
24) 1,1-Dichloroethane	5.01	63	1254375	9.252	ppbv 98
25) Ethyl Acetate	5.68	43	3381114	13.695	ppbv 99
26) Hexane	5.69	57	1614604	13.018	ppbv 97
27) Carbon Disulfide	4.56	76	1578454	9.704	ppbv 99
28) Methyl tert-Butyl Ether	5.04	73	1436455	9.031	ppbv 100
29) Chloroform	5.76	83	2466659	13.205	ppbv 96
30) Cyclohexane	7.13	84	1489602	10.665	ppbv 98
31) cis-1,2-Dichloroethene	5.55	61	1636785	15.941	ppbv 99
32) 1,1,1-Trichloroethane	6.52	97	2536296	10.700	ppbv 100
34) 2-Butanone	5.25	43	1566472	17.414	ppbv 100
35) Carbon Tetrachloride	7.02	117	2589181	13.735	ppbv 99
36) Benzene	6.90	78	3535738	13.629	ppbv 99
37) 1,2-Dichloroethane	6.31	62	1844211	15.315	ppbv 100
38) Trichloroethene	7.84	130	1273922	12.087	ppbv 98
39) 1,2-Dichloropropane	7.62	63	1391555	13.876	ppbv 98
40) 1,4-Dioxane	7.83	88	297547	11.505	ppbv # 1
41) Tetrahydrofuran	6.05	42	917491	14.214	ppbv 100
42) Bromodichloromethane	7.80	83	2690337	14.192	ppbv 99
43) Methyl Methacrylate	8.02	69	1324019	14.308	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5550119	12.453	ppbv	100
45) t-1,3-Dichloropropene	9.28	75	1207679	15.758	ppbv	99
46) cis-1,3-Dichloropropene	8.70	75	1497729	14.953	ppbv	100
47) 1,1,2-Trichloroethane	9.48	97	1406260	13.806	ppbv	94
48) Dibromochloromethane	10.30	129	2306952	13.930	ppbv	97
49) Bromoform	13.04	173	1658213	12.976	ppbv	98
50) 4-Methyl-2-Pentanone	8.74	43	2319925	14.302	ppbv	99
51) 2-Hexanone	10.14	43	1108411	14.634	ppbv #	100
52) Tetrachloroethene	11.22	164	1164858	11.894	ppbv	99
53) Toluene	9.81	91	3995826	13.171	ppbv	100
54) 1,2-Dibromoethane	10.61	107	2070204	14.506	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.13	131	1468213	13.124	ppbv	96
57) Chlorobenzene	12.15	112	2740215	13.044	ppbv	98
58) Ethyl Benzene	12.71	91	5135495	13.197	ppbv	99
59) m/p-Xylene	13.00	91	8342114m	25.798	ppbv	
60) o-Xylene	13.70	91	3954302	13.175	ppbv	98
61) Styrene	13.53	104	2349472m	14.038	ppbv	
62) Isopropylbenzene	14.67	105	5633031m	12.981	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.68	83	2636767	11.750	ppbv	99
64) n-propylbenzene	15.56	120	1445241	13.064	ppbv	99
65) tert-Butylbenzene	16.74	119	4506897	11.836	ppbv	99
66) Benzyl Chloride	16.99	91	311623	11.718	ppbv	98
67) sec-Butylbenzene	17.30	105	6343295	12.058	ppbv	99
69) p-Isopropyltoluene	17.65	119	5183372	12.223	ppbv	99
70) n-Butylbenzene	18.55	91	5072907	13.049	ppbv	100
71) 2-Chlorotoluene	15.45	91	3923858	12.633	ppbv	98
72) 4-Ethyltoluene	15.84	105	4808261	13.435	ppbv	98
73) 1,3,5-Trimethylbenzene	16.00	105	4212248	12.868	ppbv	98
74) 1,2,4-Trimethylbenzene	16.77	105	4065194	12.335	ppbv	94
75) 1,3-Dichlorobenzene	17.00	146	2360259	12.976	ppbv	100
76) 1,4-Dichlorobenzene	17.14	146	2362108m	12.676	ppbv	
77) 1,2-Dichlorobenzene	17.82	146	2216639	12.708	ppbv	99
78) Hexachloro-1,3-Butadiene	23.37	225	1222357	10.804	ppbv	99
79) Naphthalene	22.19	128	2604573	14.405	ppbv	100
80) Naphthalene, 2-methyl-	24.97	142	688359	20.164	ppbv	97
81) 1,2,4-Trichlorobenzene	21.92	180	1387822	13.574	ppbv	99

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

