

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072721\
 Data File : VL037285.D
 Acq On : 27 Jul 2021 6:27
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 8/2/2021 9:03:50 AM

Quant Time: Jul 27 07:16:00 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 27 2021
 QLast Update : Tue Jul 27 06:38:44 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1362492	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4003560	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3782458	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3004058	10.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.90%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	2917154	12.138	ppbv	99
3) Chlorodifluoromethane	2.99	51	3607248	13.494	ppbv	100
4) Chloromethane	3.14	50	1256799	14.125	ppbv	98
5) Vinyl Chloride	3.25	62	1392977	14.371	ppbv	100
6) Bromomethane	3.47	94	806436	14.081	ppbv	98
7) Chloroethane	3.56	64	520964	14.749	ppbv	99
8) Dichlorotetrafluoroethane	3.19	85	3377208	13.737	ppbv	99
9) Propene	3.01	41	1159822	13.626	ppbv	99
10) Heptane	8.13	43	3018260	14.592	ppbv	100
11) Trichlorofluoromethane	3.95	101	3780356	14.724	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	2684460	14.795	ppbv	99
13) Ethanol	3.61	45	116613	9.044	ppbv	97
14) Bromoethene	3.74	108	1144115	15.200	ppbv	100
15) Acetone	3.85	43	2045148	12.948	ppbv	100
16) 1,3-Butadiene	3.32	39	1395151	15.210	ppbv	99
17) tert-Butyl alcohol	4.29	59	1774776	12.417	ppbv	100
18) 1,1-Dichloroethene	4.29	96	1231681	15.289	ppbv	99
19) Isopropyl Alcohol	3.96	45	942041	10.268	ppbv	100
20) Methylene Chloride	4.34	84	1038007	11.084	ppbv	96
21) Allyl Chloride	4.41	41	1750832	14.821	ppbv	97
22) trans-1,2-Dichloroethene	4.88	96	1240841	15.612	ppbv	98
23) Vinyl Acetate	5.08	43	3415757	15.408	ppbv	100
24) 1,1-Dichloroethane	5.01	63	2628027	14.618	ppbv	99
25) Ethyl Acetate	5.68	43	4795179	14.280	ppbv	100
26) Hexane	5.69	57	2233430	13.207	ppbv	99
27) Carbon Disulfide	4.55	76	2880064	17.238	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	2907531	14.292	ppbv	100
29) Chloroform	5.75	83	3752423	14.254	ppbv	100
30) Cyclohexane	7.13	84	2003294	14.208	ppbv	98
31) cis-1,2-Dichloroethene	5.55	61	2333152	14.956	ppbv	98
32) 1,1,1-Trichloroethane	6.51	97	3902763	13.928	ppbv	100
34) 2-Butanone	5.25	43	2375726	14.961	ppbv	100
35) Carbon Tetrachloride	7.02	117	4218328	15.504	ppbv	96
36) Benzene	6.90	78	4666085	14.319	ppbv	98
37) 1,2-Dichloroethane	6.31	62	2890505	15.079	ppbv	100
38) Trichloroethene	7.84	130	2019612	13.035	ppbv	98
39) 1,2-Dichloropropane	7.62	63	1804052	14.900	ppbv	95
40) 1,4-Dioxane	7.83	88	400609	12.225	ppbv #	100
41) Tetrahydrofuran	6.05	42	1136912	15.561	ppbv	99
42) Bromodichloromethane	7.80	83	4030476	15.377	ppbv	99
43) Methyl Methacrylate	8.02	69	1754141	15.573	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.87	57	7557731	13.731	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	1704827	17.549	ppbv	98
46) cis-1,3-Dichloropropene	8.71	75	2156722	16.168	ppbv	99
47) 1,1,2-Trichloroethane	9.48	97	2028870	14.631	ppbv	99
48) Dibromochloromethane	10.31	129	3700717	16.800	ppbv	100
49) Bromoform	13.05	173	3078268	18.518	ppbv	98
50) 4-Methyl-2-Pentanone	8.74	43	3509880	16.071	ppbv	99
51) 2-Hexanone	10.14	43	1809631	16.938	ppbv #	98
52) Tetrachloroethene	11.23	164	1948241	12.897	ppbv	96
53) Toluene	9.81	91	5611097	14.379	ppbv	98
54) 1,2-Dibromoethane	10.62	107	3033324	15.197	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.13	131	2474827	14.741	ppbv	90
57) Chlorobenzene	12.15	112	4352499	14.045	ppbv	99
58) Ethyl Benzene	12.72	91	7463914	14.205	ppbv	94
59) m/p-Xylene	13.00	91	12634889m	28.273	ppbv	
60) o-Xylene	13.70	91	6071691	14.235	ppbv	99
61) Styrene	13.54	104	3482173	15.966	ppbv	99
62) Isopropylbenzene	14.67	105	8410527	13.860	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.68	83	4214312	14.799	ppbv	99
64) n-propylbenzene	15.57	120	2298119	15.176	ppbv	92
65) tert-Butylbenzene	16.75	119	7640189	14.113	ppbv	99
66) Benzyl Chloride	16.99	91	393038	17.047	ppbv	99
67) sec-Butylbenzene	17.30	105	10032335	13.917	ppbv	98
69) p-Isopropyltoluene	17.66	119	8699557	14.306	ppbv	98
70) n-Butylbenzene	18.56	91	8248516	14.669	ppbv	99
71) 2-Chlorotoluene	15.46	91	6194351	14.550	ppbv	99
72) 4-Ethyltoluene	15.84	105	7305557	15.031	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	6673508	14.205	ppbv	97
74) 1,2,4-Trimethylbenzene	16.77	105	6837771	14.122	ppbv	96
75) 1,3-Dichlorobenzene	17.00	146	4278262	14.556	ppbv	99
76) 1,4-Dichlorobenzene	17.14	146	4179283	14.258	ppbv	99
77) 1,2-Dichlorobenzene	17.82	146	4099816	14.376	ppbv	100
78) Hexachloro-1,3-Butadiene	23.38	225	2547041	10.740	ppbv	99
79) Naphthalene	22.20	128	4912997	12.962	ppbv	100
80) Naphthalene, 2-methyl-	24.98	142	1175718	12.915	ppbv	92
81) 1,2,4-Trichlorobenzene	21.93	180	2893380	13.014	ppbv	99

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

