

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
 Data File : VL037794.D
 Acq On : 6 Oct 2021 7:37
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 10/11/2021 7:36:53 PM

Quant Time: Oct 06 12:52:18 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 06 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1260621	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	3758821	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.05	117	3224603m	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.38	95	2459476	10.91	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	1573894	7.816	ppbv	99
3) Chlorodifluoromethane	2.97	51	2278362	9.406	ppbv	99
4) Chloromethane	3.12	50	765130	8.624	ppbv	98
5) Vinyl Chloride	3.24	62	790634	9.722	ppbv	98
6) Bromomethane	3.46	94	297820	6.770	ppbv	94
7) Chloroethane	3.54	64	265929	8.893	ppbv	91
8) Dichlorotetrafluoroethane	3.17	85	1784380	8.966	ppbv	98
9) Propene	3.00	41	775179	8.698	ppbv	99
10) Heptane	8.09	43	1956803	9.668	ppbv	100
11) Trichlorofluoromethane	3.93	101	1644989	9.157	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1242460	9.128	ppbv	100
13) Ethanol	3.59	45	85669m	11.754	ppbv	
14) Bromoethene	3.72	108	545972	9.122	ppbv	95
15) Acetone	3.83	43	923999	8.165	ppbv	99
16) 1,3-Butadiene	3.31	39	843129	10.240	ppbv	90
17) tert-Butyl alcohol	4.26	59	1054028	9.044	ppbv	100
18) 1,1-Dichloroethene	4.27	96	548191	8.862	ppbv	97
19) Isopropyl Alcohol	3.94	45	671946	9.544	ppbv #	97
20) Methylene Chloride	4.32	84	456829	7.989	ppbv	95
21) Allyl Chloride	4.39	41	774275	7.723	ppbv	98
22) trans-1,2-Dichloroethene	4.86	96	581351	9.348	ppbv	94
23) Vinyl Acetate	5.05	43	1379793	8.136	ppbv	99
24) 1,1-Dichloroethane	4.99	63	1190935	9.647	ppbv	99
25) Ethyl Acetate	5.65	43	2854326	8.988	ppbv	99
26) Hexane	5.66	57	1423634	9.104	ppbv	96
27) Carbon Disulfide	4.53	76	1358087	9.800	ppbv	99
28) Methyl tert-Butyl Ether	5.01	73	1130628	8.684	ppbv	99
29) Chloroform	5.73	83	2018540	9.031	ppbv	99
30) Cyclohexane	7.10	84	1198377	9.038	ppbv	100
31) cis-1,2-Dichloroethene	5.52	61	1296000	9.130	ppbv	97
32) 1,1,1-Trichloroethane	6.48	97	1932941	9.122	ppbv	99
34) 2-Butanone	5.22	43	1266162	8.344	ppbv	98
35) Carbon Tetrachloride	6.99	117	1988006	9.313	ppbv	97
36) Benzene	6.86	78	2954635	9.203	ppbv	99
37) 1,2-Dichloroethane	6.28	62	1433299	9.481	ppbv	99
38) Trichloroethene	7.81	130	1176878	9.279	ppbv	98
39) 1,2-Dichloropropane	7.58	63	1154930	9.564	ppbv	98
40) 1,4-Dioxane	7.81	88	270133	8.939	ppbv #	100
41) Tetrahydrofuran	6.02	42	643105	8.655	ppbv	100
42) Bromodichloromethane	7.76	83	2134046	9.611	ppbv	98
43) Methyl Methacrylate	7.99	69	1109126	10.577	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.84	57	5001914	9.273	ppbv	98
45) t-1,3-Dichloropropene	9.25	75	415622	5.760	ppbv	99
46) cis-1,3-Dichloropropene	8.67	75	670060	6.700	ppbv	97
47) 1,1,2-Trichloroethane	9.44	97	1201146	9.150	ppbv	97
48) Dibromochloromethane	10.27	129	1903819	10.173	ppbv	100
49) Bromoform	13.01	173	1606644	11.220	ppbv	99
50) 4-Methyl-2-Pentanone	8.71	43	2009049	10.170	ppbv	100
51) 2-Hexanone	10.10	43	1022891	11.599	ppbv #	98
52) Tetrachloroethene	11.19	164	1094745	8.764	ppbv	97
53) Toluene	9.78	91	3432292	9.647	ppbv	100
54) 1,2-Dibromoethane	10.58	107	1609805	9.078	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.09	131	1379631	10.335	ppbv	98
57) Chlorobenzene	12.11	112	2536303	9.588	ppbv	98
58) Ethyl Benzene	12.68	91	4471720	10.327	ppbv	99
59) m/p-Xylene	12.96	91	7458003m	20.065	ppbv	
60) o-Xylene	13.66	91	3537534	9.931	ppbv	98
61) Styrene	13.49	104	1850927	10.743	ppbv	99
62) Isopropylbenzene	14.64	105	5050320	10.165	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.64	83	2606375	9.482	ppbv	99
64) n-propylbenzene	15.53	120	1324620	10.691	ppbv	97
65) tert-Butylbenzene	16.71	119	4377481	10.012	ppbv	100
66) Benzyl Chloride	16.96	91	99135m	4.594	ppbv	
67) sec-Butylbenzene	17.26	105	6190173	10.352	ppbv	100
69) p-Isopropyltoluene	17.62	119	5193779	10.744	ppbv	99
70) n-Butylbenzene	18.52	91	5073550	11.047	ppbv	99
71) 2-Chlorotoluene	15.42	91	3679827	10.488	ppbv	100
72) 4-Ethyltoluene	15.81	105	4221821	10.438	ppbv	98
73) 1,3,5-Trimethylbenzene	15.97	105	3748262	10.203	ppbv	98
74) 1,2,4-Trimethylbenzene	16.73	105	3969264	10.289	ppbv	97
75) 1,3-Dichlorobenzene	16.96	146	2445801	10.233	ppbv	100
76) 1,4-Dichlorobenzene	17.10	146	2387130	10.469	ppbv	99
77) 1,2-Dichlorobenzene	17.78	146	2421455	10.546	ppbv	98
78) Hexachloro-1,3-Butadiene	23.34	225	1885593	10.058	ppbv	100
79) Naphthalene	22.15	128	2992053	12.664	ppbv	98
80) Naphthalene,2-methyl-	24.94	142	788931	12.435	ppbv	98
81) 1,2,4-Trichlorobenzene	21.88	180	1839654	12.174	ppbv	98

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

