

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL091621\
 Data File : VL037612.D
 Acq On : 16 Sep 2021 10:03
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 9/20/2021 5:26:35 PM

Quant Time: Sep 16 10:45:22 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 1
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1699531	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4996370	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	4543326m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	3490134	10.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	3310216	12.139	ppbv	98
3) Chlorodifluoromethane	2.98	51	2947290	9.056	ppbv	99
4) Chloromethane	3.13	50	1112961	9.570	ppbv	93
5) Vinyl Chloride	3.25	62	1124795	9.441	ppbv	96
6) Bromomethane	3.47	94	634676	9.725	ppbv	96
7) Chloroethane	3.55	64	374709	9.214	ppbv	93
8) Dichlorotetrafluoroethane	3.18	85	2534881	9.004	ppbv	99
9) Propene	3.00	41	1037513	8.910	ppbv	95
10) Heptane	8.11	43	2692617	10.046	ppbv	98
11) Trichlorofluoromethane	3.94	101	2314298	9.041	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1676277	8.924	ppbv	100
13) Ethanol	3.60	45	103094m	9.099	ppbv	
14) Bromoethene	3.73	108	779638	9.143	ppbv	97
15) Acetone	3.84	43	1358112	7.852	ppbv	100
16) 1,3-Butadiene	3.32	39	1067503	9.621	ppbv	98
17) tert-Butyl alcohol	4.27	59	1524940	9.651	ppbv	100
18) 1,1-Dichloroethene	4.28	96	765026	8.966	ppbv	99
19) Isopropyl Alcohol	3.95	45	902075	9.103	ppbv #	95
20) Methylene Chloride	4.33	84	679824	7.850	ppbv	97
21) Allyl Chloride	4.40	41	1263055	8.991	ppbv	94
22) trans-1,2-Dichloroethene	4.87	96	798298	9.378	ppbv	97
23) Vinyl Acetate	5.06	43	2492263	9.776	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1594456	8.623	ppbv	98
25) Ethyl Acetate	5.66	43	4181485	9.523	ppbv	99
26) Hexane	5.67	57	2010811	9.366	ppbv	99
27) Carbon Disulfide	4.54	76	1893397	9.896	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1707345	8.281	ppbv	98
29) Chloroform	5.74	83	2838954	9.331	ppbv	100
30) Cyclohexane	7.11	84	1675386	9.366	ppbv	98
31) cis-1,2-Dichloroethene	5.54	61	1863144	9.589	ppbv	98
32) 1,1,1-Trichloroethane	6.50	97	2717133	9.089	ppbv	99
34) 2-Butanone	5.23	43	1871433	9.172	ppbv	97
35) Carbon Tetrachloride	7.00	117	2829790	9.583	ppbv	99
36) Benzene	6.88	78	4102366	9.767	ppbv	99
37) 1,2-Dichloroethane	6.29	62	2010073	9.661	ppbv	100
38) Trichloroethene	7.82	130	1644093	9.540	ppbv	95
39) 1,2-Dichloropropane	7.60	63	1588949	9.845	ppbv	99
40) 1,4-Dioxane	7.82	88	412825	10.441	ppbv #	100
41) Tetrahydrofuran	6.03	42	976819	9.939	ppbv	99
42) Bromodichloromethane	7.78	83	3007884	9.887	ppbv	100
43) Methyl Methacrylate	8.00	69	1499859	10.246	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	6840392	9.677	ppbv	100
45) t-1,3-Dichloropropene	9.26	75	1310869	11.895	ppbv	96
46) cis-1,3-Dichloropropene	8.69	75	1694224	11.021	ppbv	99
47) 1,1,2-Trichloroethane	9.46	97	1714606	9.832	ppbv	99
48) Dibromochloromethane	10.29	129	2688532	10.713	ppbv	98
49) Bromoform	13.02	173	2295813	11.606	ppbv	96
50) 4-Methyl-2-Pentanone	8.73	43	2676370	10.055	ppbv	99
51) 2-Hexanone	10.12	43	1262879	10.315	ppbv #	97
52) Tetrachloroethene	11.20	164	1538036	8.936	ppbv	98
53) Toluene	9.79	91	4792119	9.992	ppbv	100
54) 1,2-Dibromoethane	10.59	107	2449001	10.059	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.11	131	1868475	9.870	ppbv	93
57) Chlorobenzene	12.13	112	3622441	9.608	ppbv	98
58) Ethyl Benzene	12.69	91	6268831	9.943	ppbv	99
59) m/p-Xylene	12.98	91	10452630m	19.123	ppbv	
60) o-Xylene	13.67	91	4912419	9.629	ppbv	98
61) Styrene	13.51	104	2842909	10.727	ppbv	98
62) Isopropylbenzene	14.65	105	6798048	9.442	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.65	83	3499174	9.229	ppbv	99
64) n-propylbenzene	15.54	120	1864628	10.176	ppbv	86
65) tert-Butylbenzene	16.73	119	5926380	9.038	ppbv	99
66) Benzyl Chloride	16.97	91	369337	12.451	ppbv	97
67) sec-Butylbenzene	17.27	105	8190676	8.940	ppbv	99
69) p-Isopropyltoluene	17.63	119	6907349	9.252	ppbv	100
70) n-Butylbenzene	18.53	91	6716891	9.414	ppbv	100
71) 2-Chlorotoluene	15.43	91	5139783	9.735	ppbv	98
72) 4-Ethyltoluene	15.82	105	5929382	9.772	ppbv	100
73) 1,3,5-Trimethylbenzene	15.98	105	5342503	9.459	ppbv	99
74) 1,2,4-Trimethylbenzene	16.74	105	5428804	9.045	ppbv #	90
75) 1,3-Dichlorobenzene	16.98	146	3405660	9.427	ppbv	98
76) 1,4-Dichlorobenzene	17.12	146	3351099	9.207	ppbv	99
77) 1,2-Dichlorobenzene	17.80	146	3184437	8.951	ppbv	99
78) Hexachloro-1,3-Butadiene	23.35	225	2299643	7.774	ppbv	99
79) Naphthalene	22.17	128	3829896	9.535	ppbv	98
80) Naphthalene, 2-methyl-	24.95	142	1050322	9.386	ppbv	93
81) 1,2,4-Trichlorobenzene	21.89	180	2270015m	9.006	ppbv	

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

