

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL036985.D
 Acq On : 19 May 2021 9:29
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 5/24/2021 3:01:04 PM

Quant Time: May 20 06:41:12 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1284981	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3999663	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3826730m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2928910	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1872958	8.592	ppbv	99
3) Chlorodifluoromethane	2.97	51	2315979	9.838	ppbv	99
4) Chloromethane	3.12	50	818479	10.217	ppbv	96
5) Vinyl Chloride	3.24	62	855127	9.766	ppbv	99
6) Bromomethane	3.46	94	459142	9.951	ppbv	97
7) Chloroethane	3.54	64	304713	10.717	ppbv	98
8) Dichlorotetrafluoroethane	3.17	85	2019855	9.869	ppbv	98
9) Propene	2.99	41	828442	9.828	ppbv	99
10) Heptane	8.10	43	2051027	9.763	ppbv	99
11) Trichlorofluoromethane	3.93	101	2068518	10.252	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1447013	10.068	ppbv	99
13) Ethanol	3.59	45	93568m	8.319	ppbv	
14) Bromoethene	3.72	108	641503	10.134	ppbv	99
15) Acetone	3.83	43	1078533	8.194	ppbv	96
16) 1,3-Butadiene	3.31	39	830313	10.154	ppbv	98
17) tert-Butyl alcohol	4.27	59	1226707	10.175	ppbv	99
18) 1,1-Dichloroethene	4.27	96	661388	9.952	ppbv	96
19) Isopropyl Alcohol	3.95	45	740405	10.465	ppbv	96
20) Methylene Chloride	4.32	84	544709	7.721	ppbv	97
21) Allyl Chloride	4.39	41	977753	9.847	ppbv	99
22) trans-1,2-Dichloroethene	4.86	96	654800	10.281	ppbv	97
23) Vinyl Acetate	5.05	43	1832706	8.773	ppbv #	99
24) 1,1-Dichloroethane	4.99	63	1415004	9.410	ppbv	99
25) Ethyl Acetate	5.65	43	2958825	9.355	ppbv	100
26) Hexane	5.66	57	1468400	9.088	ppbv	99
27) Carbon Disulfide	4.53	76	1585110	9.734	ppbv	98
28) Methyl tert-Butyl Ether	5.01	73	1752026	9.047	ppbv	100
29) Chloroform	5.73	83	2218998	9.721	ppbv	99
30) Cyclohexane	7.10	84	1335922	9.730	ppbv	99
31) cis-1,2-Dichloroethene	5.53	61	1423860	9.829	ppbv	98
32) 1,1,1-Trichloroethane	6.49	97	2341213	9.552	ppbv	99
34) 2-Butanone	5.22	43	1362878	9.358	ppbv	99
35) Carbon Tetrachloride	6.99	117	2425927	9.129	ppbv	98
36) Benzene	6.86	78	3204485	9.301	ppbv	99
37) 1,2-Dichloroethane	6.28	62	1648530	9.652	ppbv	99
38) Trichloroethene	7.81	130	1302807	8.840	ppbv	97
39) 1,2-Dichloropropane	7.59	63	1248263	9.406	ppbv	98
40) 1,4-Dioxane	7.82	88	289880	9.251	ppbv #	100
41) Tetrahydrofuran	6.02	42	718398	8.661	ppbv	97
42) Bromodichloromethane	7.77	83	2476190	9.583	ppbv	98
43) Methyl Methacrylate	7.99	69	1163934	9.802	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.84	57	5259736	8.899	ppbv	99
45) t-1,3-Dichloropropene	9.25	75	883884	9.743	ppbv	97
46) cis-1,3-Dichloropropene	8.67	75	1178579	9.659	ppbv	97
47) 1,1,2-Trichloroethane	9.45	97	1333265	9.599	ppbv	98
48) Dibromochloromethane	10.28	129	2258741	10.043	ppbv	99
49) Bromoform	13.01	173	1888401	10.167	ppbv	100
50) 4-Methyl-2-Pentanone	8.72	43	2280265	9.488	ppbv	100
51) 2-Hexanone	10.11	43	1227019	9.658	ppbv #	100
52) Tetrachloroethene	11.19	164	1268524	9.260	ppbv	97
53) Toluene	9.78	91	3786968	9.238	ppbv	100
54) 1,2-Dibromoethane	10.58	107	1955720	9.903	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.10	131	1531361	9.511	ppbv	97
57) Chlorobenzene	12.12	112	2822674	9.513	ppbv	97
58) Ethyl Benzene	12.68	91	4985910	9.231	ppbv	98
59) m/p-Xylene	12.97	91	8209177m	18.388	ppbv	
60) o-Xylene	13.66	91	3881835	9.117	ppbv	100
61) Styrene	13.50	104	2387226	9.952	ppbv	100
62) Isopropylbenzene	14.64	105	5543437	9.059	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.65	83	2703816	8.503	ppbv	100
64) n-propylbenzene	15.54	120	1534737	9.721	ppbv	99
65) tert-Butylbenzene	16.72	119	5036819	9.122	ppbv	99
66) Benzyl Chloride	16.96	91	215189	7.024	ppbv	100
67) sec-Butylbenzene	17.27	105	6881590	9.136	ppbv	99
69) p-Isopropyltoluene	17.63	119	6009126	9.278	ppbv	100
70) n-Butylbenzene	18.52	91	5882234	9.561	ppbv	100
71) 2-Chlorotoluene	15.43	91	4122295	9.327	ppbv	98
72) 4-Ethyltoluene	15.81	105	4887554	9.671	ppbv	99
73) 1,3,5-Trimethylbenzene	15.97	105	4406513	9.285	ppbv	98
74) 1,2,4-Trimethylbenzene	16.74	105	4585807	9.346	ppbv	98
75) 1,3-Dichlorobenzene	16.97	146	2895643	9.664	ppbv	99
76) 1,4-Dichlorobenzene	17.11	146	2844085	9.388	ppbv	99
77) 1,2-Dichlorobenzene	17.79	146	2827874	9.419	ppbv	100
78) Hexachloro-1,3-Butadiene	23.35	225	2058630	8.527	ppbv	100
79) Naphthalene	22.16	128	4340061	11.273	ppbv	100
80) Naphthalene, 2-methyl-	24.95	142	1248597	14.914	ppbv	95
81) 1,2,4-Trichlorobenzene	21.90	180	2448935	10.434	ppbv	100

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

