

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051420\
 Data File : VL035018.D
 Acq On : 14 May 2020 12:18
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 5/18/2020 1:34:35 PM

Quant Time: May 15 01:22:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1037081	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	2377239	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	2418344m	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.44	95	1955049	9.99	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	1114213	7.570	ppbv	99
3) Chlorodifluoromethane	2.94	51	1043403	8.812	ppbv	99
4) Chloromethane	3.09	50	589390	8.686	ppbv	98
5) Vinyl Chloride	3.21	62	591867	8.941	ppbv	99
6) Bromomethane	3.43	94	347501	8.792	ppbv	90
7) Chloroethane	3.51	64	220153	9.260	ppbv	95
8) Dichlorotetrafluoroethane	3.14	85	1343560	8.820	ppbv	98
9) Propene	2.96	41	439408	8.552	ppbv	97
10) Heptane	8.12	43	1226377	9.528	ppbv	99
11) Trichlorofluoromethane	3.91	101	1400734	9.229	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.45	101	981988	9.087	ppbv	97
13) Ethanol	3.56	45	129274	7.625	ppbv	97
14) Bromoethene	3.70	108	432111	9.676	ppbv	99
15) Acetone	3.81	43	1103229	8.046	ppbv	100
16) 1,3-Butadiene	3.28	39	548346	9.294	ppbv	98
17) tert-Butyl alcohol	4.26	59	1095332	8.979	ppbv	100
18) 1,1-Dichloroethene	4.25	96	455063	9.706	ppbv	95
19) Isopropyl Alcohol	3.93	45	814659	8.910	ppbv	99
20) Methylene Chloride	4.31	84	400508	8.824	ppbv	88
21) Allyl Chloride	4.38	41	761680	9.835	ppbv	98
22) trans-1,2-Dichloroethene	4.85	96	447742	9.641	ppbv	99
23) Vinyl Acetate	5.05	43	1615735	9.293	ppbv	99
24) 1,1-Dichloroethane	4.98	63	1198602	8.951	ppbv	99
25) Ethyl Acetate	5.65	43	2116792	9.191	ppbv	100
26) Hexane	5.66	57	933077	9.345	ppbv	100
27) Carbon Disulfide	4.52	76	1137280	9.664	ppbv	100
28) Methyl tert-Butyl Ether	5.01	73	1382253	9.090	ppbv	99
29) Chloroform	5.73	83	1453277	8.896	ppbv	96
30) Cyclohexane	7.12	84	767190	9.957	ppbv	98
31) cis-1,2-Dichloroethene	5.53	61	940349	9.653	ppbv	99
32) 1,1,1-Trichloroethane	6.50	97	1379633	9.351	ppbv	99
34) 2-Butanone	5.22	43	1382587	9.358	ppbv	99
35) Carbon Tetrachloride	7.01	117	1425939	9.503	ppbv	97
36) Benzene	6.88	78	1852176	9.450	ppbv	97
37) 1,2-Dichloroethane	6.29	62	1166107	9.645	ppbv	99
38) Trichloroethene	7.83	130	710406	9.356	ppbv	95
39) 1,2-Dichloropropane	7.61	63	733186	9.332	ppbv	97
40) 1,4-Dioxane	7.82	88	274269	8.588	ppbv #	1
41) Tetrahydrofuran	6.03	42	765829	9.845	ppbv	98
42) Bromodichloromethane	7.79	83	1562857	9.585	ppbv	99
43) Methyl Methacrylate	8.01	69	850027	10.271	ppbv	100

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

44) 2,2,4-Trimethylpentane	7.86	57	3219158	9.239	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	954142	11.424	ppbv	97
46) cis-1,3-Dichloropropene	8.71	75	1112743	10.852	ppbv	95
47) 1,1,2-Trichloroethane	9.48	97	767968	9.262	ppbv	98
48) Dibromochloromethane	10.32	129	1284942	10.078	ppbv	99
49) Bromoform	13.06	173	1104052	10.064	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2068675	9.819	ppbv	100
51) 2-Hexanone	10.13	43	1707662	10.363	ppbv #	100
52) Tetrachloroethene	11.23	164	654243m	9.388	ppbv	
53) Toluene	9.81	91	2170071	10.445	ppbv	99
54) 1,2-Dibromoethane	10.62	107	1189126	9.767	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.14	131	959141	8.795	ppbv	94
57) Chlorobenzene	12.16	112	1642565	8.573	ppbv	97
58) Ethyl Benzene	12.73	91	2906783	9.720	ppbv	100
59) m/p-Xylene	13.01	91	4815831m	18.303	ppbv	
60) o-Xylene	13.71	91	2377866	9.159	ppbv	98
61) Styrene	13.55	104	1708691	10.399	ppbv	99
62) Isopropylbenzene	14.69	105	3517667	9.075	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.70	83	1683948	8.239	ppbv	99
64) n-propylbenzene	15.58	120	900319	9.055	ppbv	95
65) tert-Butylbenzene	16.77	119	2999660	8.922	ppbv	99
66) Benzyl Chloride	17.02	91	1095401	9.597	ppbv	98
67) sec-Butylbenzene	17.32	105	4313974	8.989	ppbv	99
69) p-Isopropyltoluene	17.68	119	3521969	9.071	ppbv	100
70) n-Butylbenzene	18.58	91	3760575	9.100	ppbv	99
71) 2-Chlorotoluene	15.48	91	2734702	9.346	ppbv	99
72) 4-Ethyltoluene	15.86	105	2774677	9.579	ppbv	99
73) 1,3,5-Trimethylbenzene	16.02	105	2579920	9.152	ppbv	98
74) 1,2,4-Trimethylbenzene	16.79	105	2669882	8.677	ppbv	94
75) 1,3-Dichlorobenzene	17.02	146	1520631	8.416	ppbv	99
76) 1,4-Dichlorobenzene	17.17	146	1503125	8.756	ppbv	99
77) 1,2-Dichlorobenzene	17.85	146	1443167	8.477	ppbv	99
78) Hexachloro-1,3-Butadiene	23.41	225	1229697	8.474	ppbv	100
79) Naphthalene	22.24	128	2664949	11.122	ppbv	98
80) Naphthalene, 2-methyl-	25.00	142	1208737	20.522	ppbv	98
81) 1,2,4-Trichlorobenzene	21.97	180	1383106m	9.519	ppbv	

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

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