

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062520\
 Data File : VX016953.D
 Acq On : 25 Jun 2020 14:52
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX062520

Manual Integrations
 APPROVED

MMDadoda
 6/26/2020 3:34:08 PM

Quant Time: Jun 26 09:10:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X062520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jun 26 09:03:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	44501	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	6.83	114	247602	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	226364	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	100735	29.08	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.93%
60) 4-Bromofluorobenzene	11.12	95	109955	29.13	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.10%
63) Toluene-d8	8.70	98	301307	30.20	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	50031	23.120	ug/l 95
3) Chloromethane	1.31	50	58253	19.851	ug/l 96
4) Vinyl Chloride	1.39	62	58593	19.579	ug/l 95
5) Bromomethane	1.63	94	46219	21.450	ug/l 99
6) Chloroethane	1.72	64	37448	19.402	ug/l 93
7) Trichlorofluoromethane	1.92	101	95730	19.669	ug/l 99
8) Diethyl Ether	2.17	74	34406	19.428	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	51474	19.928	ug/l 97
10) 1,1-Dichloroethene	2.36	96	50332	19.757	ug/l 95
11) Methyl Iodide	2.49	142	61478	18.074	ug/l 98
12) Methyl Acetate	2.75	43	57910	18.021	ug/l 96
13) Acrolein	2.27	56	43666	86.115	ug/l 100
14) Acrylonitrile	3.11	53	139188	91.451	ug/l 99
15) Acetone	2.42	58	33977	86.263	ug/l 93
16) Carbon Disulfide	2.55	76	163000	20.353	ug/l 97
17) Allyl chloride	2.71	41	92940	19.488	ug/l 96
18) Methylene Chloride	2.83	84	59222	19.300	ug/l 94
19) trans-1,2-Dichloroethene	3.14	96	58090	20.125	ug/l 96
20) Diisopropyl ether	3.82	45	182569	19.155	ug/l 94
21) 1,1-Dichloroethane	3.67	63	101583	19.329	ug/l 100
22) cis-1,2-Dichloroethene	4.56	96	63534	19.770	ug/l 97
23) tert-Butyl Alcohol	3.01	59	60802	90.184	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	175938	19.341	ug/l 99
25) Chloroform	5.17	83	102822	19.297	ug/l 99
26) Cyclohexane	5.54	56	88781	19.366	ug/l # 98
29) 1,1-Dichloropropene	5.77	75	78663	19.502	ug/l 99
30) 2-Butanone	4.63	43	182882	86.985	ug/l 100
31) 2,2-Dichloropropane	4.54	77	91320	19.741	ug/l 99
32) 1,1,1-Trichloroethane	5.46	97	93015	19.058	ug/l 99
33) Carbon Tetrachloride	5.75	117	83687	19.335	ug/l 97
34) Benzene	6.11	78	225859	19.231	ug/l 98
35) Methacrylonitrile	5.00	41	40018	17.247	ug/l 99
36) 1,2-Dichloroethane	6.16	62	84547	18.796	ug/l 99
37) Trichloroethene	7.18	130	63545	19.828	ug/l 94
38) Methylcyclohexane	7.44	83	89761	19.541	ug/l 99
39) 1,2-Dichloropropane	7.49	63	56815	18.568	ug/l 95
40) Dibromomethane	7.63	93	39488	18.725	ug/l 99

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

41) Bromodichloromethane	7.87	83	82985	19.004	ug/l	92
42) Vinyl Acetate	3.78	43	793446	93.650	ug/l	100
43) Ethyl Acetate	4.79	43	77351	17.762	ug/l	99
44) Isopropyl Acetate	6.40	43	129117	17.987	ug/l	99
45) 1,4-Dioxane	7.71	88	28072	387.638	ug/l #	92
46) Methyl methacrylate	7.74	41	61320	18.459	ug/l	93
47) n-amyl Acetate	10.88	43	113638	17.910	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	92200	19.096	ug/l	98
49) cis-1,3-Dichloropropene	8.42	75	97634	19.241	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	55701	18.926	ug/l	98
51) Ethyl methacrylate	9.16	69	83357	18.455	ug/l	100
52) 1,3-Dichloropropane	9.35	76	96429	19.084	ug/l	97
53) Dibromochloromethane	9.56	129	63065	18.643	ug/l	100
54) 1,2-Dibromoethane	9.65	107	58568	18.754	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	232603	97.862	ug/l	100
56) Bromoform	10.84	173	43140	17.966	ug/l	100
58) 4-Methyl-2-Pentanone	8.62	43	373188	89.500	ug/l	98
59) 2-Hexanone	9.47	43	278876	89.616	ug/l	98
61) Tetrachloroethene	9.32	164	56443	19.552	ug/l	97
62) Toluene	8.76	91	244557	19.753	ug/l	99
64) Chlorobenzene	10.12	112	151547	19.538	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.20	131	57341	19.637	ug/l	99
66) Ethyl Benzene	10.23	91	268240	19.537	ug/l	99
67) m/p-Xylenes	10.34	106	205064	39.592	ug/l	97
68) o-Xylene	10.68	106	94627	19.020	ug/l	97
69) Styrene	10.70	104	162811	19.112	ug/l	98
70) Isopropylbenzene	11.00	105	261662	19.391	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	78740	19.000	ug/l	97
72) 1,2,3-Trichloropropane	11.28	75	76399m	19.196	ug/l	
73) Bromobenzene	11.24	156	65273	19.166	ug/l	98
74) n-propylbenzene	11.34	91	311984	19.472	ug/l	100
75) 2-Chlorotoluene	11.40	91	178561	19.111	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	217451	19.198	ug/l	100
77) t-1,4-Dichloro-2-butene	11.05	75	28555	17.704	ug/l	93
78) 4-Chlorotoluene	11.49	91	214563	19.396	ug/l	100
79) tert-butylbenzene	11.76	119	210225	19.374	ug/l	100
80) 1,2,4-Trimethylbenzene	11.79	105	219973	19.344	ug/l	98
81) sec-Butylbenzene	11.93	105	253895	19.326	ug/l	100
82) p-Isopropyltoluene	12.05	119	230929	19.468	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	123659	20.262	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	124387	20.285	ug/l	98
85) n-Butylbenzene	12.37	91	217380	19.798	ug/l	99
86) Hexachloroethane	12.58	117	43078	18.557	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	114460	20.037	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	16559	17.562	ug/l	97
89) 1,2,4-Trichlorobenzene	13.63	180	77582	20.130	ug/l	98
90) Hexachlorobutadiene	13.77	225	31768	21.669	ug/l	98
91) Naphthalene	13.82	128	244162	19.328	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	77627	20.640	ug/l	99

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

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