

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070822\
 Data File : VX029984.D
 Acq On : 08 Jul 2022 19:35
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/11/2022
 Supervised By : Mahesh Dadoda 07/11/2022

Quant Time: Jul 09 02:21:28 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X070822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 09 02:10:54 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.910	128	30960	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	171379	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	154561	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	71087	28.159	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	93.867%	
60) 4-Bromofluorobenzene	11.085	95	84017	28.844	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	96.133%	
63) Toluene-d8	8.653	98	249292	29.745	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.133%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	41692	19.693	ug/l	97
3) Chloromethane	1.288	50	41091	18.613	ug/l	100
4) Vinyl Chloride	1.374	62	46567	18.615	ug/l	99
5) Bromomethane	1.605	94	16417	15.928	ug/l	95
6) Chloroethane	1.685	64	26641	19.886	ug/l	99
7) Trichlorofluoromethane	1.886	101	61174	19.291	ug/l	99
8) Diethyl Ether	2.136	74	25439	18.861	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.325	101	40634	19.031	ug/l	96
10) 1,1-Dichloroethene	2.319	96	41890	19.214	ug/l	92
11) Methyl Iodide	2.453	142	19967	16.376	ug/l	91
12) Methyl Acetate	2.709	43	70085	19.738	ug/l	93
13) Acrolein	2.239	56	27720	66.454	ug/l	100
14) Acrylonitrile	3.069	53	151161	98.915	ug/l	97
15) Acetone	2.386	58	41268	99.414	ug/l	90
16) Carbon Disulfide	2.514	76	105512	18.539	ug/l	100
17) Allyl chloride	2.666	41	70435	18.332	ug/l	97
18) Methylene Chloride	2.788	84	48181	18.968	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	44370	18.753	ug/l	91
20) Diisopropyl ether	3.764	45	146401	19.021	ug/l	92
21) 1,1-Dichloroethane	3.611	63	78178	18.867	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	53049	18.883	ug/l	97
23) tert-Butyl Alcohol	2.977	59	68616	98.011	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	134055	19.059	ug/l	98
25) Chloroform	5.099	83	79211	19.181	ug/l	99
26) Cyclohexane	5.471	56	72091	18.778	ug/l #	94
29) 1,1-Dichloropropene	5.696	75	59478	20.288	ug/l	98
30) 2-Butanone	4.562	43	203895	103.038	ug/l	100
31) 2,2-Dichloropropane	4.483	77	45172	16.121	ug/l #	89
32) 1,1,1-Trichloroethane	5.391	97	62852	19.938	ug/l	98
33) Carbon Tetrachloride	5.684	117	52835	19.955	ug/l	98
34) Benzene	6.044	78	190929	20.266	ug/l	99
35) Methacrylonitrile	4.928	41	40593	20.266	ug/l	92
36) 1,2-Dichloroethane	6.092	62	57375	20.005	ug/l	97
37) Trichloroethene	7.129	130	51099	20.280	ug/l	98
38) Methylcyclohexane	7.385	83	76178	20.025	ug/l	95
39) 1,2-Dichloropropane	7.434	63	47690	19.885	ug/l	93
40) Dibromomethane	7.586	93	33379	20.533	ug/l	91
41) Bromodichloromethane	7.824	83	57184	19.692	ug/l	100
42) Vinyl Acetate	3.727	43	633258	100.069	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070822\
 Data File : VX029984.D
 Acq On : 08 Jul 2022 19:35
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/11/2022
 Supervised By : Mahesh Dadoda 07/11/2022

Quant Time: Jul 09 02:21:28 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X070822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 09 02:10:54 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	76706	20.578	ug/l	99
44) Isopropyl Acetate	6.348	43	114449	20.211	ug/l	98
45) 1,4-Dioxane	7.678	88	27581	414.913	ug/l	98
46) Methyl methacrylate	7.696	41	53933	20.098	ug/l	98
47) n-amyl Acetate	10.848	43	92459	19.007	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	59227	18.456	ug/l	99
49) cis-1,3-Dichloropropene	8.373	75	68461	18.998	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	48008	19.934	ug/l	95
51) Ethyl methacrylate	9.116	69	73877	19.712	ug/l	94
52) 1,3-Dichloropropane	9.311	76	79566	20.538	ug/l	99
53) Dibromochloromethane	9.525	129	43659	19.585	ug/l	100
54) 1,2-Dibromoethane	9.610	107	50535	20.206	ug/l	99
55) 2-Chloroethyl vinyl ether	8.245	63	193855	100.343	ug/l	96
56) Bromoform	10.799	173	29657	19.005	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	388814	101.843	ug/l	99
59) 2-Hexanone	9.433	43	300286	101.693	ug/l	99
61) Tetrachloroethene	9.275	164	47339	20.399	ug/l	96
62) Toluene	8.720	91	201194	19.569	ug/l	97
64) Chlorobenzene	10.080	112	122752	19.991	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	41113	19.202	ug/l	95
66) Ethyl Benzene	10.195	91	217967	19.949	ug/l	100
67) m/p-Xylenes	10.305	106	170995	40.331	ug/l	97
68) o-Xylene	10.647	106	84946	20.120	ug/l	97
69) Styrene	10.659	104	139630	19.985	ug/l	97
70) Isopropylbenzene	10.964	105	210959	19.845	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	75836	19.618	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	67542m	19.438	ug/l	
73) Bromobenzene	11.201	156	49888	19.571	ug/l	93
74) n-propylbenzene	11.305	91	249460	19.563	ug/l	98
75) 2-Chlorotoluene	11.366	91	145247	19.342	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	176994	19.831	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	19901	16.651	ug/l	84
78) 4-Chlorotoluene	11.457	91	161540	19.167	ug/l	96
79) tert-butylbenzene	11.720	119	168937	19.457	ug/l	98
80) 1,2,4-Trimethylbenzene	11.756	105	172277	18.776	ug/l	98
81) sec-Butylbenzene	11.890	105	221135	18.816	ug/l	98
82) p-Isopropyltoluene	12.012	119	179829	19.007	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	94359	19.133	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	93795	18.753	ug/l	100
85) n-Butylbenzene	12.335	91	155985	17.569	ug/l	96
86) Hexachloroethane	12.543	117	27220	17.316	ug/l	89
87) 1,2-Dichlorobenzene	12.335	146	95494	19.609	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	15658	17.761	ug/l	98
89) 1,2,4-Trichlorobenzene	13.591	180	56599	18.771	ug/l	99
90) Hexachlorobutadiene	13.725	225	21488	18.791	ug/l	98
91) Naphthalene	13.774	128	227210	18.905	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	59685	19.433	ug/l	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070822\
Data File : VX029984.D
Acq On : 08 Jul 2022 19:35
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020EC

Quant Time: Jul 09 02:21:28 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X070822W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jul 09 02:10:54 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : John Carlone 07/11/2022
Supervised By : Mahesh Dadoda 07/11/2022

