

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042822\
 Data File : VX028404.D
 Acq On : 28 Apr 2022 16:45
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/29/2022
 Supervised By : Mahesh Dadoda 04/29/2022

Quant Time: Apr 29 05:40:12 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X042822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 29 05:39:20 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	70226	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	394447	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	352659	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	134787	28.113	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	93.700%		
60) 4-Bromofluorobenzene	11.079	95	157628	27.721	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	92.400%		
63) Toluene-d8	8.647	98	452177	29.824	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.400%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	11891	2.923	ug/l	97
3) Chloromethane	1.294	50	9868	3.024	ug/l	97
4) Vinyl Chloride	1.374	62	12347	3.795	ug/l	95
5) Bromomethane	1.605	94	13539	7.313	ug/l	99
6) Chloroethane	1.684	64	10085	5.010	ug/l	94
7) Trichlorofluoromethane	1.886	101	27971	4.822	ug/l	95
8) Diethyl Ether	2.136	74	10861	5.610	ug/l	86
9) 1,1,2-Trichlorotrifluo...	2.331	101	17583	4.509	ug/l	99
10) 1,1-Dichloroethene	2.318	96	13633	3.665	ug/l	92
11) Methyl Iodide	2.453	142	14348	3.182	ug/l	98
12) Methyl Acetate	2.703	43	20894	4.155	ug/l	98
13) Acrolein	2.233	56	21894	26.202	ug/l	97
14) Acrylonitrile	3.068	53	47893	21.072	ug/l	99
15) Acetone	2.379	58	14274	22.171	ug/l	86
16) Carbon Disulfide	2.514	76	14436	1.581	ug/l	98
17) Allyl chloride	2.660	41	19096	3.129	ug/l	97
18) Methylene Chloride	2.788	84	18614	4.348	ug/l	89
19) trans-1,2-Dichloroethene	3.093	96	14905	3.682	ug/l	86
20) Diisopropyl ether	3.757	45	50872	4.171	ug/l	95
21) 1,1-Dichloroethane	3.605	63	30203	4.230	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	21089	4.401	ug/l	94
23) tert-Butyl Alcohol	2.946	59	33843	35.241	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	59742	4.617	ug/l	97
25) Chloroform	5.098	83	35177	4.548	ug/l	98
26) Cyclohexane	5.470	56	18596	3.025	ug/l #	86
29) 1,1-Dichloropropene	5.690	75	21047	3.716	ug/l	96
30) 2-Butanone	4.562	43	63498	19.548	ug/l	92
31) 2,2-Dichloropropane	4.477	77	25040	4.261	ug/l	100
32) 1,1,1-Trichloroethane	5.385	97	28418	4.050	ug/l	98
33) Carbon Tetrachloride	5.684	117	23112	3.644	ug/l	96
34) Benzene	6.037	78	69036	4.135	ug/l	96
35) Methacrylonitrile	4.928	41	12652	3.744	ug/l	81
36) 1,2-Dichloroethane	6.092	62	25738	4.213	ug/l #	92
37) Trichloroethene	7.129	130	20693	4.076	ug/l	94
38) Methylcyclohexane	7.385	83	21539	3.146	ug/l	93
39) 1,2-Dichloropropane	7.433	63	17660	4.249	ug/l	95
40) Dibromomethane	7.580	93	13188	4.207	ug/l	97
41) Bromodichloromethane	7.824	83	23452	3.928	ug/l #	96
42) Vinyl Acetate	3.721	43	193822	18.034	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042822\
 Data File : VX028404.D
 Acq On : 28 Apr 2022 16:45
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/29/2022
 Supervised By : Mahesh Dadoda 04/29/2022

Quant Time: Apr 29 05:40:12 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X042822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 29 05:39:20 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	24909	4.029	ug/l	98
44) Isopropyl Acetate	6.342	43	36704	3.843	ug/l #	78
45) 1,4-Dioxane	7.671	88	9250	83.374	ug/l	94
46) Methyl methacrylate	7.696	41	16675	3.572	ug/l	86
47) n-amyl Acetate	10.847	43	27803	3.503	ug/l	92
48) t-1,3-Dichloropropene	8.982	75	21843	3.521	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	24986	3.684	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	21022	4.650	ug/l	95
51) Ethyl methacrylate	9.122	69	26753	3.863	ug/l	85
52) 1,3-Dichloropropane	9.311	76	33621	4.500	ug/l	98
53) Dibromochloromethane	9.518	129	17437	3.595	ug/l	97
54) 1,2-Dibromoethane	9.610	107	21275	4.355	ug/l	96
55) 2-Chloroethyl vinyl ether	8.244	63	66689	19.673	ug/l	98
56) Bromoform	10.805	173	12730	3.558	ug/l	94
58) 4-Methyl-2-Pentanone	8.573	43	127630	20.846	ug/l	94
59) 2-Hexanone	9.433	43	95530	20.302	ug/l	96
61) Tetrachloroethene	9.275	164	21090	4.347	ug/l	97
62) Toluene	8.720	91	79424	4.322	ug/l	98
64) Chlorobenzene	10.079	112	55440	4.628	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	20040	4.384	ug/l	95
66) Ethyl Benzene	10.195	91	92123	4.413	ug/l	100
67) m/p-Xylenes	10.305	106	73070	8.914	ug/l	96
68) o-Xylene	10.640	106	36656	4.546	ug/l	99
69) Styrene	10.658	104	58455	4.360	ug/l	96
70) Isopropylbenzene	10.963	105	97933	4.623	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	32594	5.102	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	28704m	4.710	ug/l	
73) Bromobenzene	11.201	156	26042	4.898	ug/l	92
74) n-propylbenzene	11.305	91	106701	4.432	ug/l	99
75) 2-Chlorotoluene	11.366	91	67852	4.640	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	80589	4.537	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	5810	3.226	ug/l	95
78) 4-Chlorotoluene	11.457	91	74340	4.475	ug/l	94
79) tert-butylbenzene	11.713	119	79867	4.608	ug/l	97
80) 1,2,4-Trimethylbenzene	11.756	105	80395	4.532	ug/l	98
81) sec-Butylbenzene	11.890	105	97281	4.434	ug/l	100
82) p-Isopropyltoluene	12.012	119	83039	4.443	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	47370	4.726	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	49685	4.945	ug/l	98
85) n-Butylbenzene	12.335	91	65116	4.253	ug/l	99
86) Hexachloroethane	12.542	117	10448	3.587	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	50250	5.172	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	5801	3.909	ug/l	95
89) 1,2,4-Trichlorobenzene	13.591	180	30380	4.788	ug/l	98
90) Hexachlorobutadiene	13.725	225	13614	5.115	ug/l	98
91) Naphthalene	13.780	128	107608	5.039	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	30756	4.837	ug/l	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042822\
Data File : VX028404.D
Acq On : 28 Apr 2022 16:45
Operator : JC/MD
Sample : VSTDIC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Quant Time: Apr 29 05:40:12 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X042822W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Apr 29 05:39:20 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/29/2022
Supervised By :Mahesh Dadoda 04/29/2022

