

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV051523\
 Data File : VV031022.D
 Acq On : 15 May 2023 11:23
 Operator : SY/MD
 Sample : 02790-04
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 15 12:16:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR042823WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat May 06 01:44:36 2023
 Response via : Initial Calibration

Compound	R.T. QIon		Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	138636	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.793	117	135485	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.191	152	67134	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	62717	5.491	ug/L	0.00
Spiked Amount	5.000	Range 40 - 130	Recovery	= 109.800%		
7) Chloroethane-d5	1.539	69	46832	5.026	ug/L	0.00
Spiked Amount	5.000	Range 65 - 130	Recovery	= 100.600%		
11) 1,1-Dichloroethene-d2	2.066	65	26455	4.376	ug/L	0.00
Spiked Amount	5.000	Range 60 - 125	Recovery	= 87.600%		
20) 2-Butanone-d5	3.815	46	149795	73.955	ug/L	-0.02
Spiked Amount	50.000	Range 40 - 130	Recovery	= 147.900%#		
24) Chloroform-d	4.259	84	116841	5.147	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	= 103.000%		
26) 1,2-Dichloroethane-d4	4.953	65	59704	5.173	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	= 103.400%		
32) Benzene-d6	4.970	84	204929	5.160	ug/L	0.00
Spiked Amount	5.000	Range 70 - 125	Recovery	= 103.200%		
36) 1,2-Dichloropropane-d6	6.002	67	64220	5.561	ug/L	0.00
Spiked Amount	5.000	Range 60 - 140	Recovery	= 111.200%		
41) Toluene-d8	7.249	98	179798	4.754	ug/L	0.00
Spiked Amount	5.000	Range 70 - 130	Recovery	= 95.000%		
43) trans-1,3-Dichloroprop...	7.561	79	22036	5.091	ug/L	0.00
Spiked Amount	5.000	Range 55 - 130	Recovery	= 101.800%		
46) 2-Hexanone-d5	8.034	63	75787	49.971	ug/L	0.00
Spiked Amount	50.000	Range 45 - 130	Recovery	= 99.940%		
56) 1,1,2,2-Tetrachloroeth...	10.159	84	43284	5.171	ug/L	0.00
Spiked Amount	5.000	Range 65 - 120	Recovery	= 103.400%		
66) 1,2-Dichlorobenzene-d4	11.567	152	67140	5.365	ug/L	0.00
Spiked Amount	5.000	Range 80 - 120	Recovery	= 107.400%		
Target Compounds						Qvalue
3) Chloromethane	1.217	50	1588	0.124	ug/L	85
5) Vinyl chloride	1.288	62	1522853	141.565	ug/L	99
6) Bromomethane	1.500	94	601	0.117	ug/L #	59
8) Chloroethane	1.555	64	27020	4.127	ug/L	95
10) 1,1,2-Trichloro-1,2,2-...	2.069	101	1922	0.190	ug/L #	56
12) 1,1-Dichloroethene	2.076	96	189011	20.258	ug/L #	65
18) trans-1,2-Dichloroethene	2.703	96	241801	28.373	ug/L	97
19) 1,1-Dichloroethane	3.124	63	8272	0.503	ug/L	96
22) cis-1,2-Dichloroethene	3.822	96	11848450	1317.710	ug/L	93
27) 1,2-Dichloroethane	5.072	62	1400	0.126	ug/L #	24
29) 1,1,1-Trichloroethane	4.526	97	32591	1.914	ug/L	98
35) Methylcyclohexane	5.863	83	680218	48.316	ug/L #	1
37) 1,2-Dichloropropane	5.998	63	7821	0.968	ug/L #	91
40) 4-Methyl-2-pentanone	7.182	43	3695	0.882	ug/L #	86
42) Toluene	7.323	91	156882	4.276	ug/L	100
47) Tetrachloroethene	7.915	164	3236	0.373	ug/L	84
48) 2-Hexanone	8.098	43	8459	2.633	ug/L #	96
49) Dibromochloromethane	7.912	129	2673	0.354	ug/L #	10
52) Ethylbenzene	8.956	91	2352	0.059	ug/L	94

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Sat May 06 01:44:36 2023
Response via : Initial Calibration

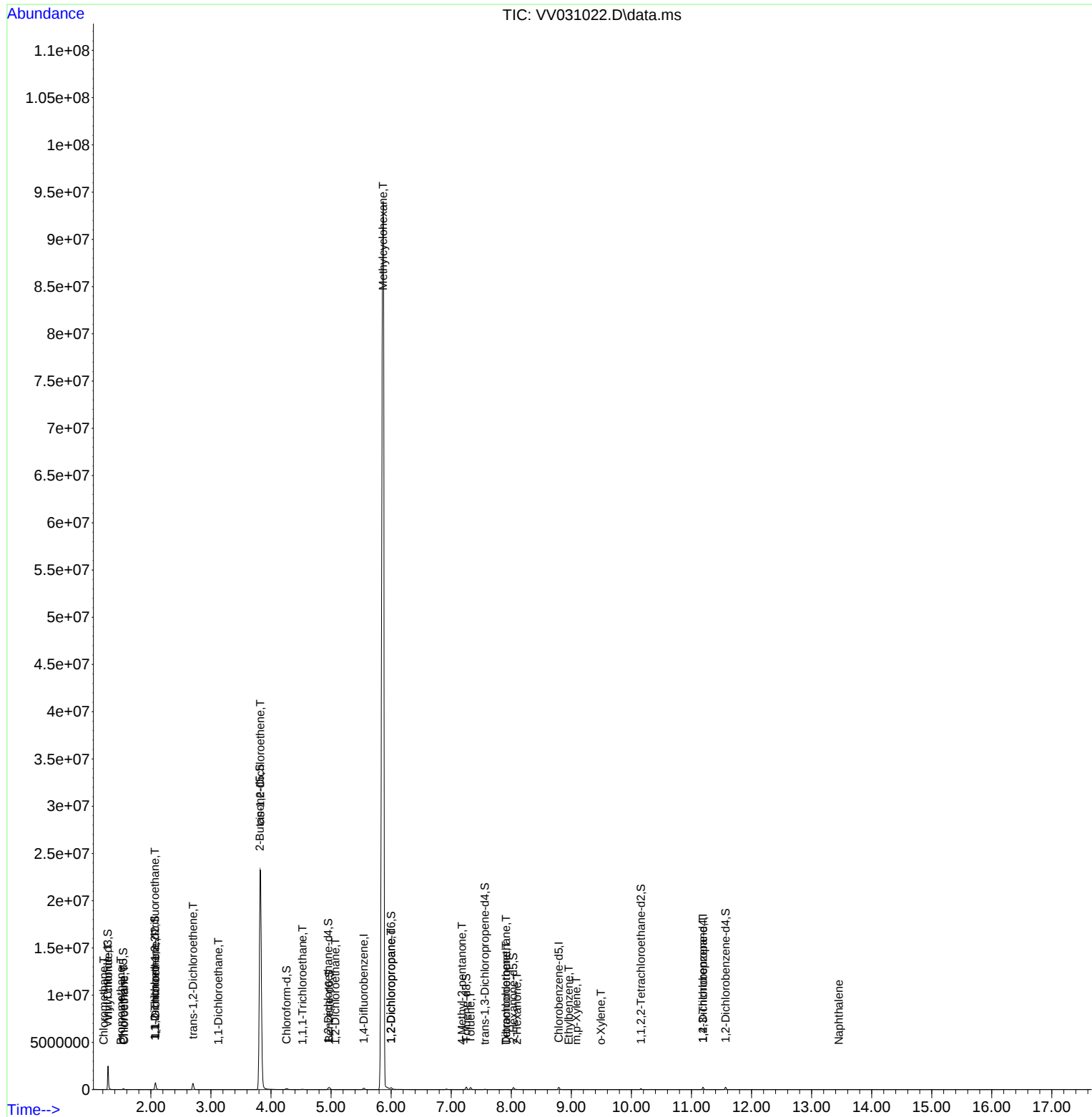
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.085	106	2982	0.187	ug/L	73
54) o-Xylene	9.490	106	1426	0.094	ug/L	68
61) 1,2,3-Trichloropropane	11.191	75	7669	1.818	ug/L #	57
71) Naphthalene	13.455	128	1162	0.072	ug/L #	95

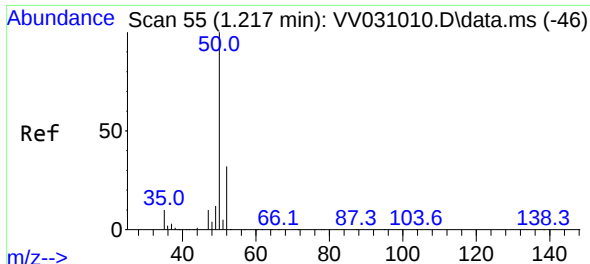
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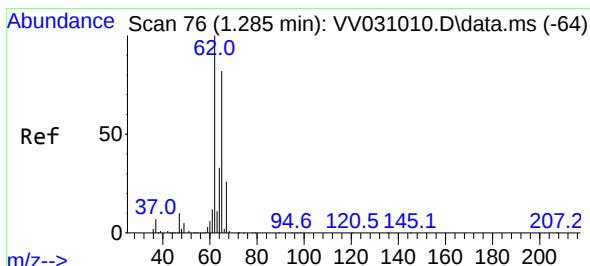
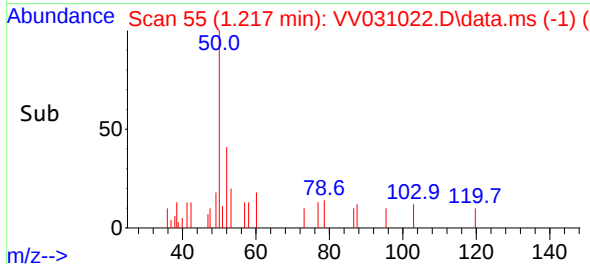
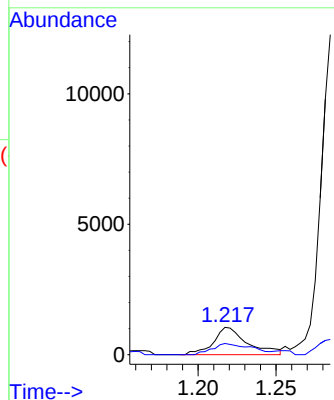
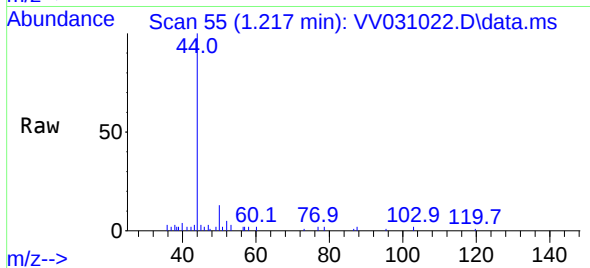




#3
Chloromethane
Concen: 0.124 ug/L
RT: 1.217 min Scan# 51
Delta R.T. 0.000 min
Lab File: VV031022.D
Acq: 15 May 2023 11:23

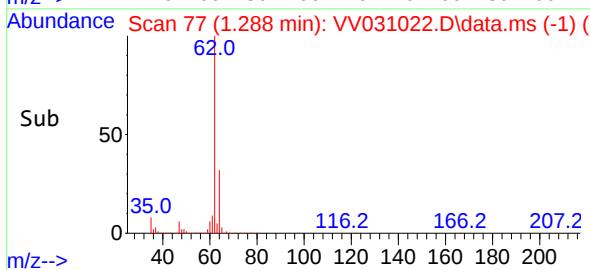
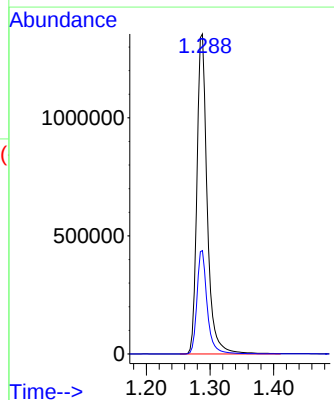
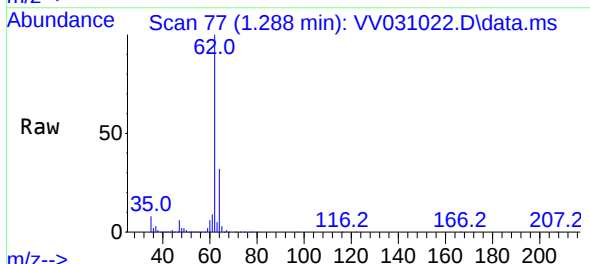
Instrument :
MSVOA_V
ClientSampleId :

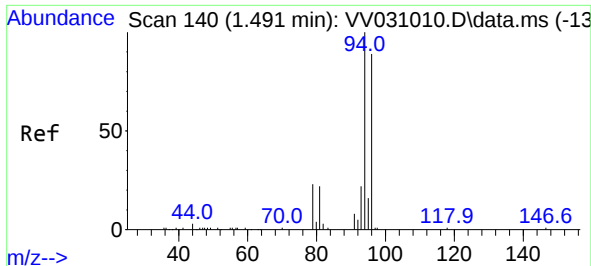
Tgt Ion: 50 Resp: 1588
Ion Ratio Lower Upper
50 100
52 40.8 22.8 42.4



#5
Vinyl chloride
Concen: 141.565 ug/L
RT: 1.288 min Scan# 77
Delta R.T. 0.003 min
Lab File: VV031022.D
Acq: 15 May 2023 11:23

Tgt Ion: 62 Resp: 1522853
Ion Ratio Lower Upper
62 100
64 32.3 22.8 42.4

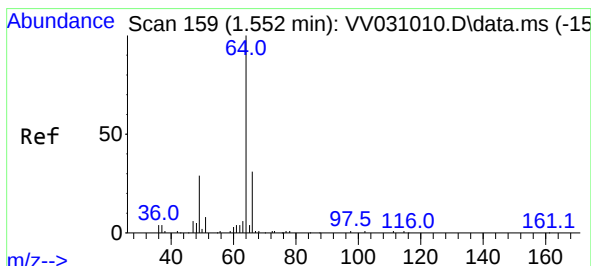
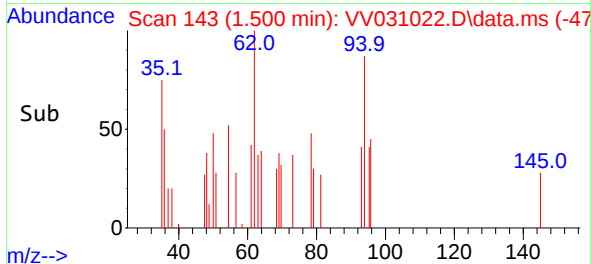
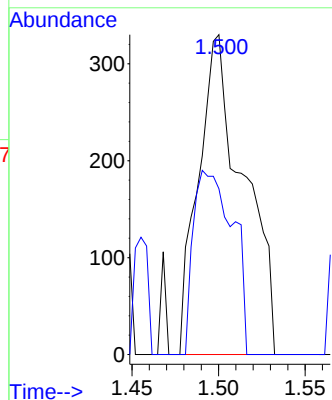
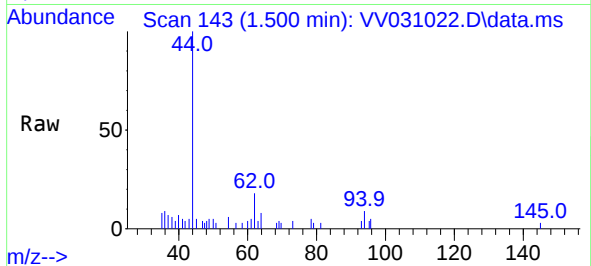




#6
Bromomethane
Concen: 0.117 ug/L
RT: 1.500 min Scan# 14
Delta R.T. 0.010 min
Lab File: VV031022.D
Acq: 15 May 2023 11:23

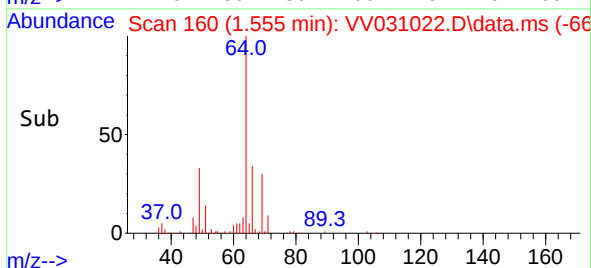
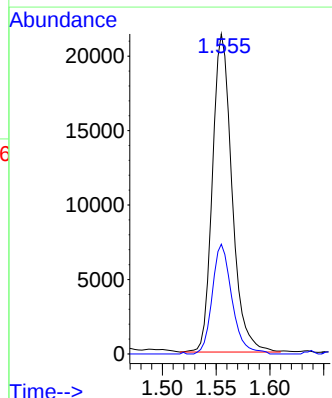
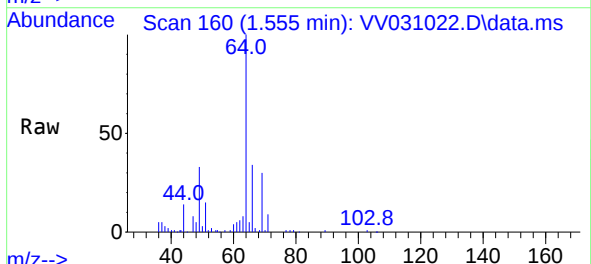
Instrument :
MSVOA_V
ClientSampleId :

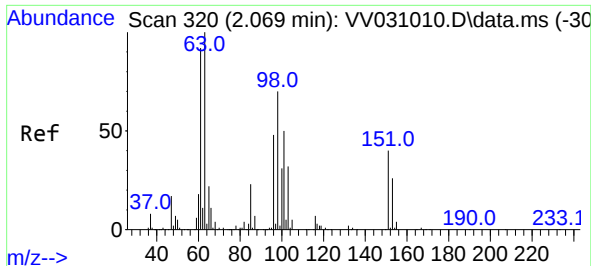
Tgt Ion: 94 Resp: 601
Ion Ratio Lower Upper
94 100
96 51.8 63.4 117.8#



#8
Chloroethane
Concen: 4.127 ug/L
RT: 1.555 min Scan# 160
Delta R.T. 0.003 min
Lab File: VV031022.D
Acq: 15 May 2023 11:23

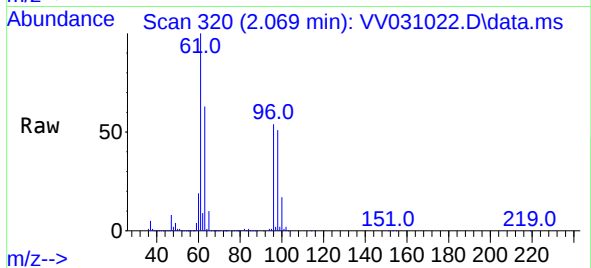
Tgt Ion: 64 Resp: 27020
Ion Ratio Lower Upper
64 100
66 34.3 22.1 41.1



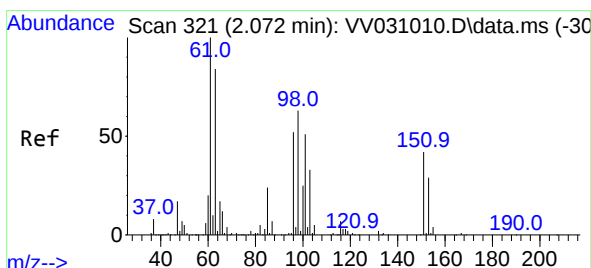
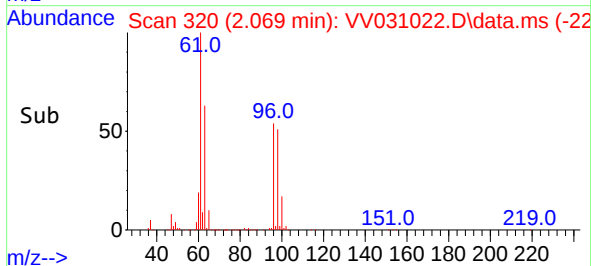
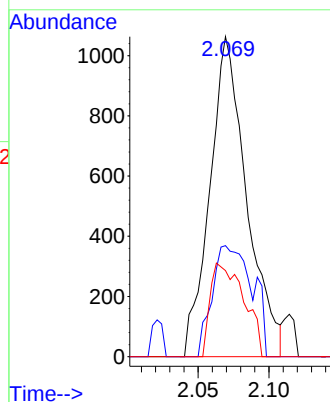


#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.190 ug/L
 RT: 2.069 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VV031022.D
 Acq: 15 May 2023 11:23

Instrument :
 MSVOA_V
 ClientSampleId :

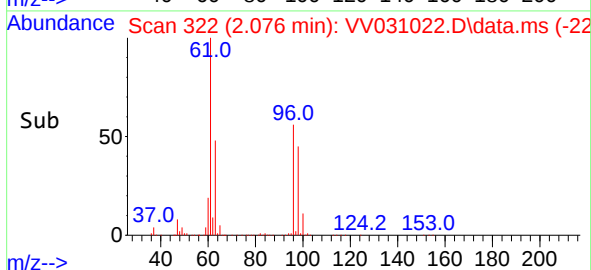
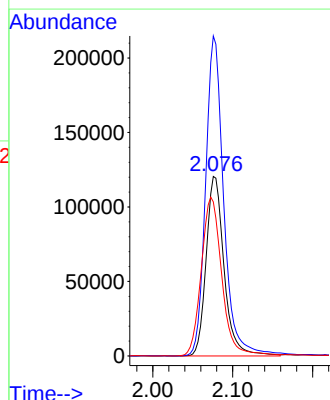
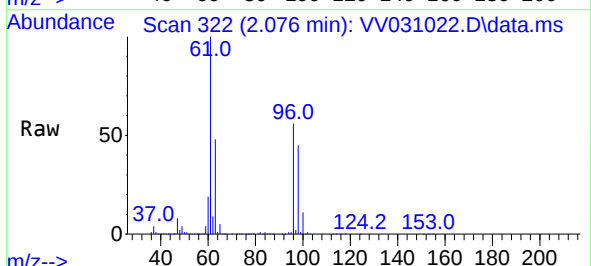


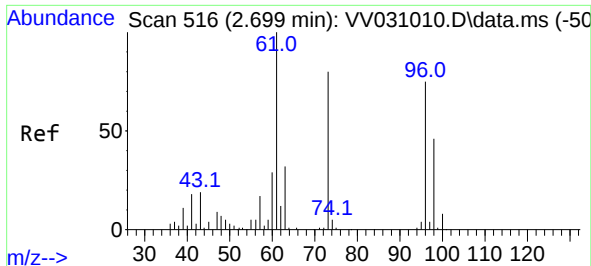
Tgt Ion:101 Resp: 1922
 Ion Ratio Lower Upper
 101 100
 85 37.7 38.7 58.1#
 151 26.6 65.1 97.7#



#12
 1,1-Dichloroethene
 Concen: 20.258 ug/L
 RT: 2.076 min Scan# 322
 Delta R.T. 0.003 min
 Lab File: VV031022.D
 Acq: 15 May 2023 11:23

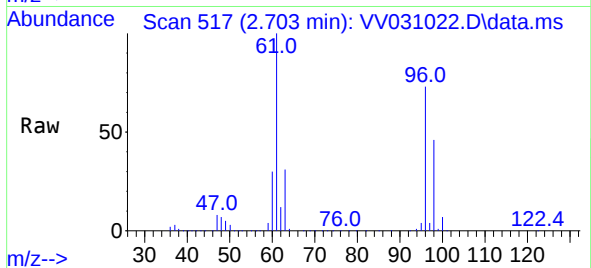
Tgt Ion: 96 Resp: 189011
 Ion Ratio Lower Upper
 96 100
 61 178.2 135.6 251.8
 63 85.8 121.1 224.9#



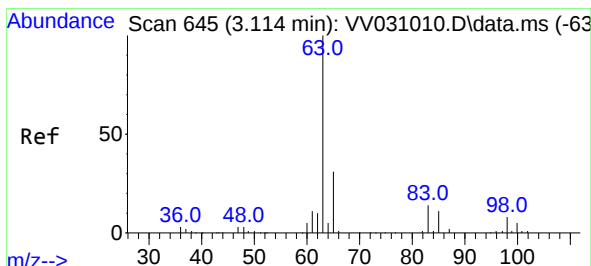
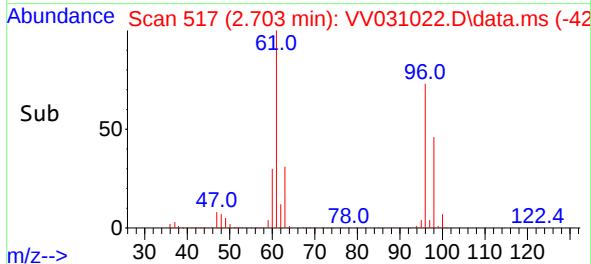
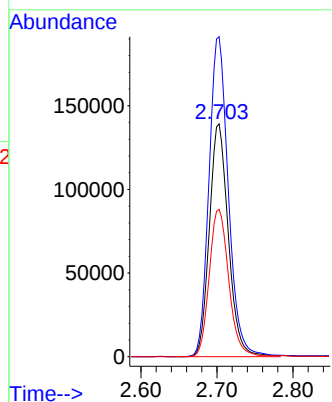


#18
trans-1,2-Dichloroethene
Concen: 28.373 ug/L
RT: 2.703 min Scan# 516
Delta R.T. 0.003 min
Lab File: VV031022.D
Acq: 15 May 2023 11:23

Instrument :
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ClientSampleId :

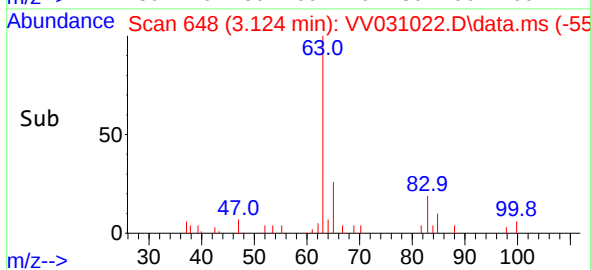
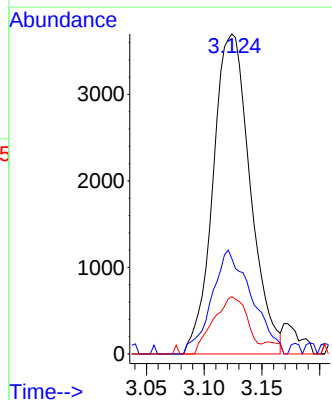
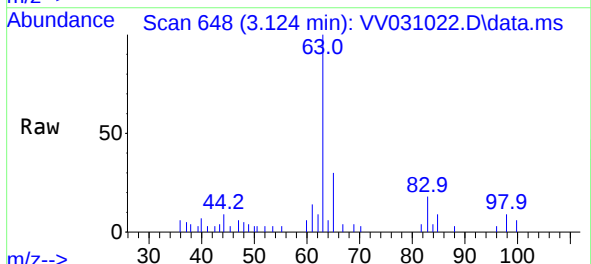


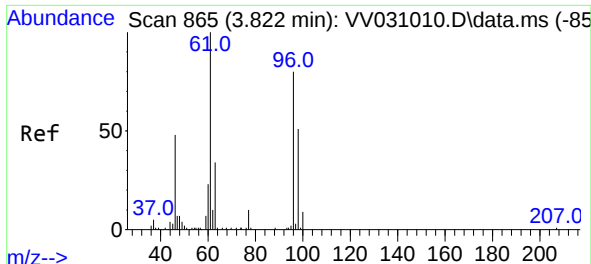
Tgt Ion: 96 Resp: 241801
Ion Ratio Lower Upper
96 100
61 137.5 98.9 183.7
98 63.3 46.0 85.4



#19
1,1-Dichloroethane
Concen: 0.503 ug/L
RT: 3.124 min Scan# 648
Delta R.T. 0.007 min
Lab File: VV031022.D
Acq: 15 May 2023 11:23

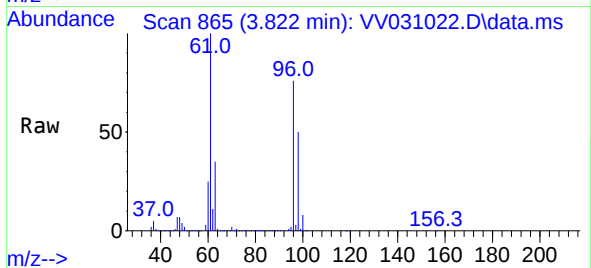
Tgt Ion: 63 Resp: 8272
Ion Ratio Lower Upper
63 100
65 29.8 21.8 40.6
83 17.9 10.2 19.0





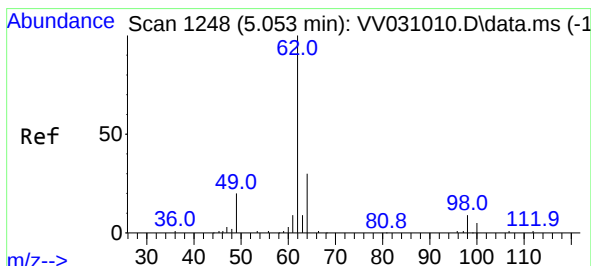
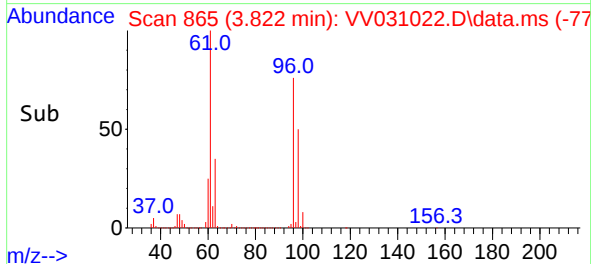
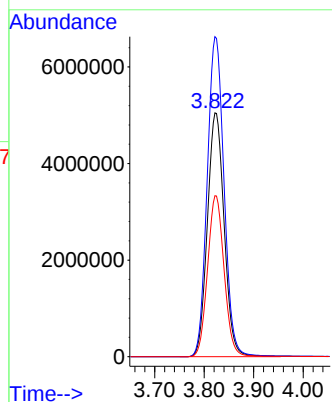
#22
 cis-1,2-Dichloroethene
 Concen: 1317.710 ug/L
 RT: 3.822 min Scan# 865
 Delta R.T. -0.003 min
 Lab File: VV031022.D
 Acq: 15 May 2023 11:23

Instrument :
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Tgt Ion: 96 Resp:11848450

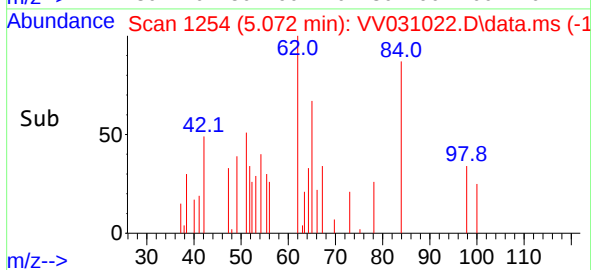
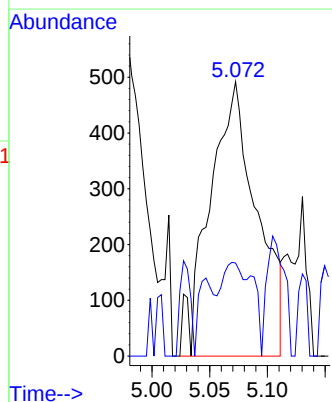
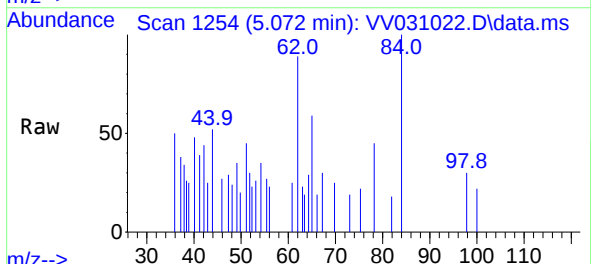
Ion	Ratio	Lower	Upper
96	100		
61	131.2	86.0	159.6
98	66.0	43.2	80.2

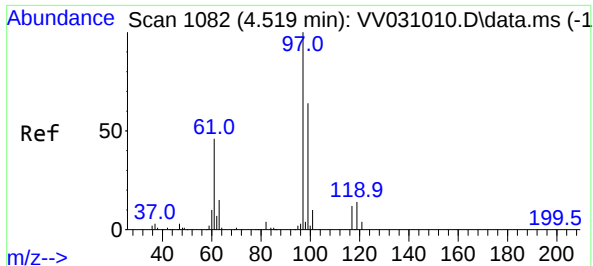


#27
 1,2-Dichloroethane
 Concen: 0.126 ug/L
 RT: 5.072 min Scan# 1254
 Delta R.T. 0.019 min
 Lab File: VV031022.D
 Acq: 15 May 2023 11:23

Tgt Ion: 62 Resp: 1400

Ion	Ratio	Lower	Upper
62	100		
98	33.9	6.0	9.0#

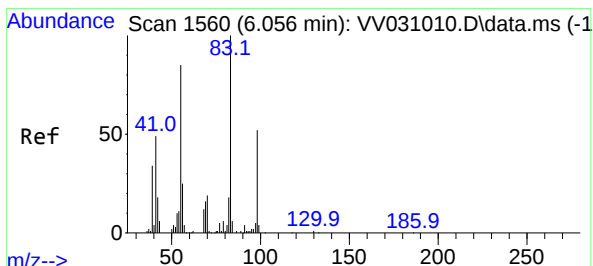
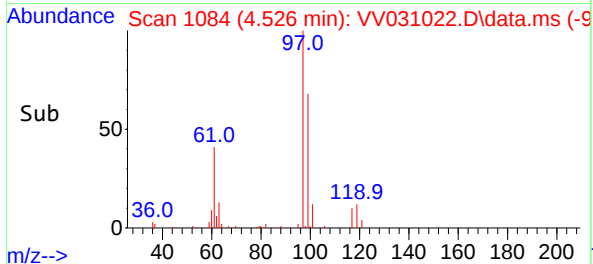
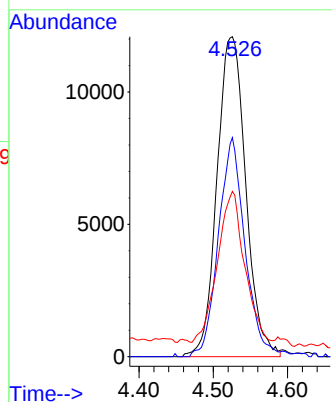
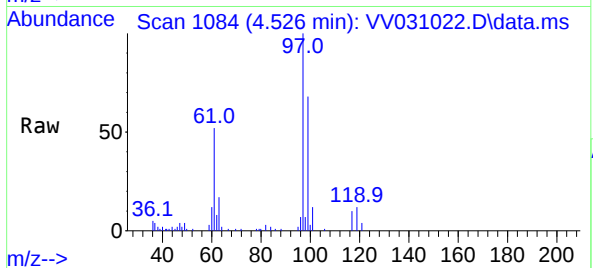




#29
1,1,1-Trichloroethane
Concen: 1.914 ug/L
RT: 4.526 min Scan# 1082
Delta R.T. 0.007 min
Lab File: VV031022.D
Acq: 15 May 2023 11:23

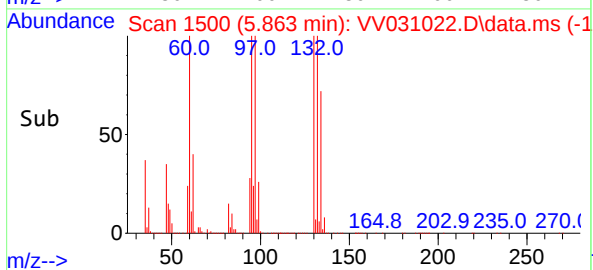
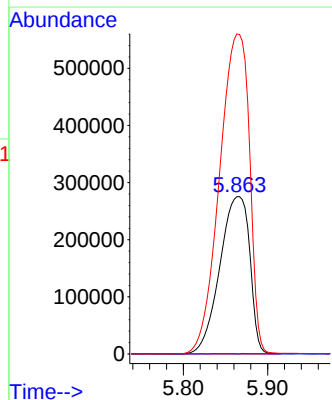
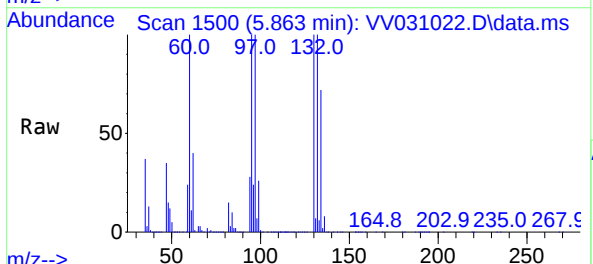
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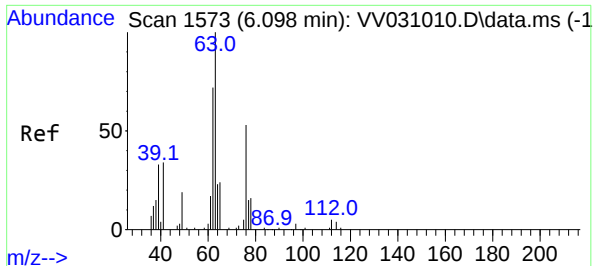
Tgt Ion: 97 Resp: 32591
Ion Ratio Lower Upper
97 100
99 63.0 51.4 77.2
61 45.5 37.4 56.0



#35
Methylcyclohexane
Concen: 48.316 ug/L
RT: 5.863 min Scan# 1500
Delta R.T. -0.193 min
Lab File: VV031022.D
Acq: 15 May 2023 11:23

Tgt Ion: 83 Resp: 680218
Ion Ratio Lower Upper
83 100
55 0.1 62.9 94.3#
98 204.0 40.5 60.7#

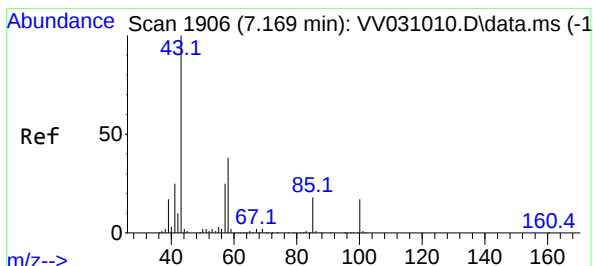
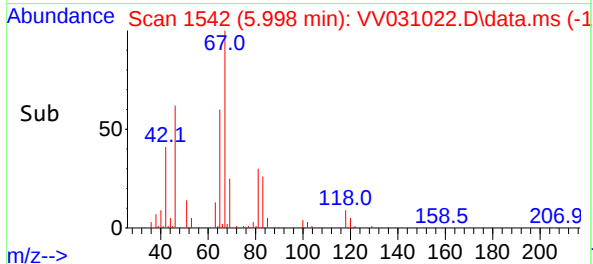
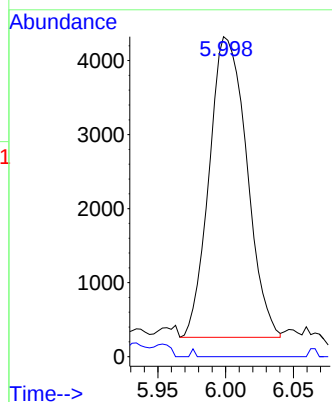
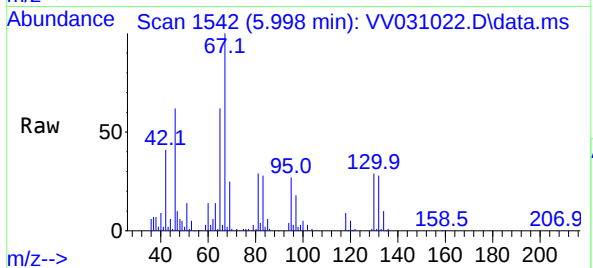




#37
1,2-Dichloropropane
Concen: 0.968 ug/L
RT: 5.998 min Scan# 11
Delta R.T. -0.103 min
Lab File: VV031022.D
Acq: 15 May 2023 11:23

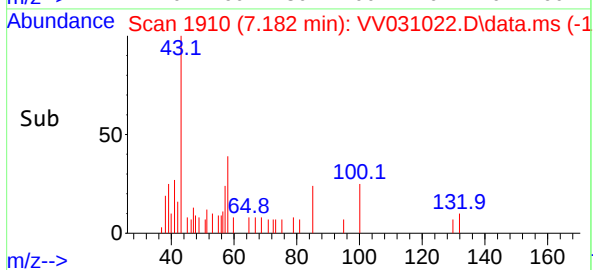
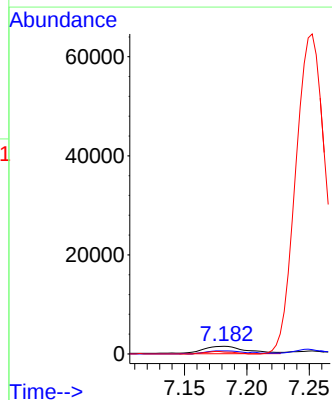
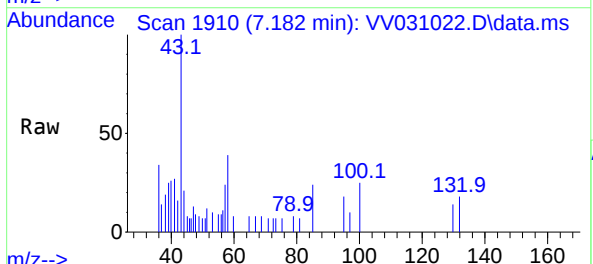
Instrument :
MSVOA_V
ClientSampleId :

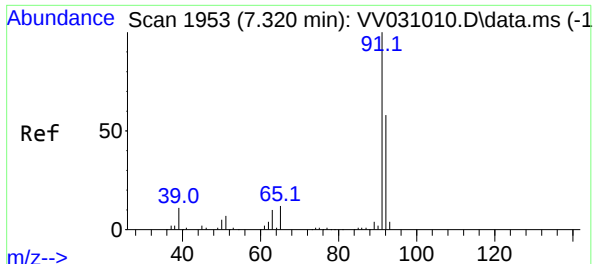
Tgt Ion: 63 Resp: 7821
Ion Ratio Lower Upper
63 100
112 1.8 3.8 5.8#



#40
4-Methyl-2-pentanone
Concen: 0.882 ug/L
RT: 7.182 min Scan# 1910
Delta R.T. 0.013 min
Lab File: VV031022.D
Acq: 15 May 2023 11:23

Tgt Ion: 43 Resp: 3695
Ion Ratio Lower Upper
43 100
58 32.9 28.3 42.5
100 0.0 11.8 17.8#





#42

Toluene

Concen: 4.276 ug/L

RT: 7.323 min Scan# 1953

Delta R.T. 0.000 min

Lab File: VV031022.D

Acq: 15 May 2023 11:23

Instrument :

MSVOA_V

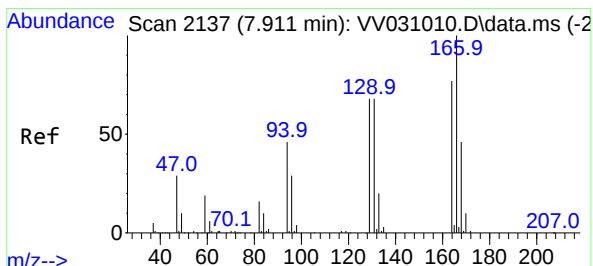
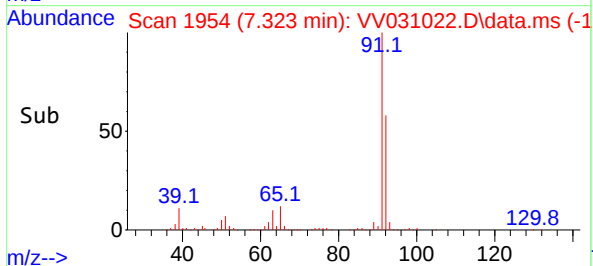
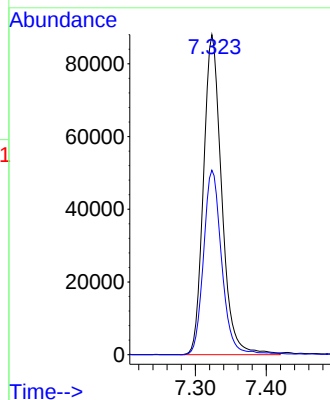
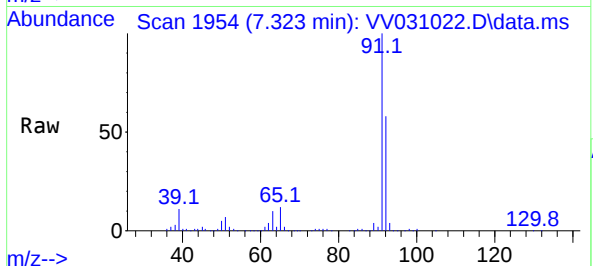
ClientSampleId :

Tgt Ion: 91 Resp: 156882

Ion Ratio Lower Upper

91 100

92 57.7 40.5 75.1



#47

Tetrachloroethene

Concen: 0.373 ug/L

RT: 7.915 min Scan# 2138

Delta R.T. 0.003 min

Lab File: VV031022.D

Acq: 15 May 2023 11:23

Tgt Ion: 164 Resp: 3236

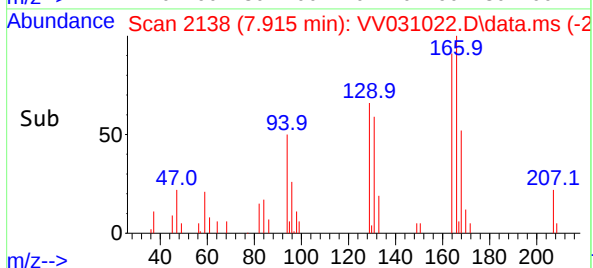
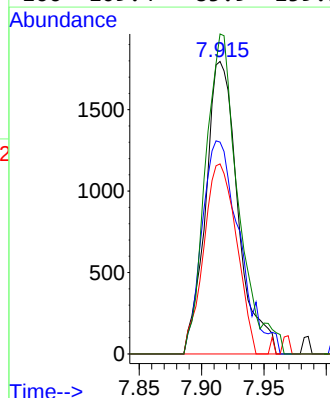
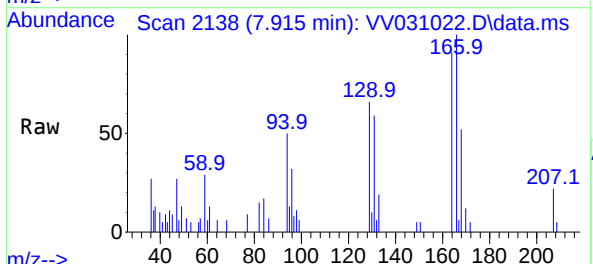
Ion Ratio Lower Upper

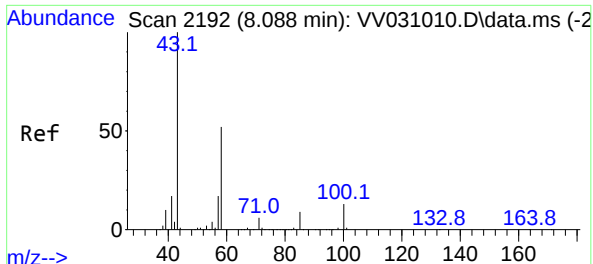
164 100

129 72.4 60.5 112.3

131 65.0 60.8 112.8

166 109.4 85.9 159.5

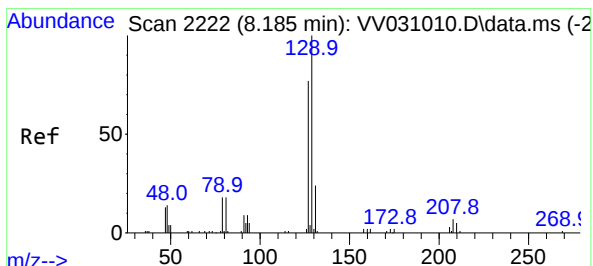
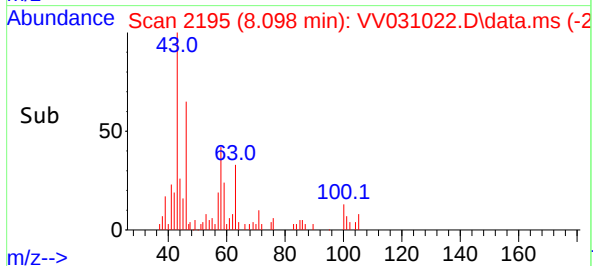
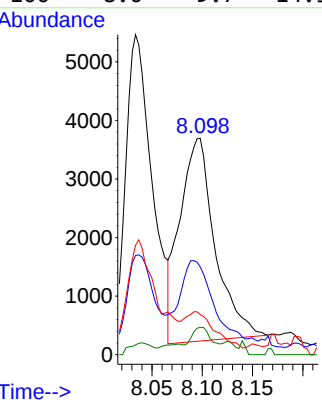
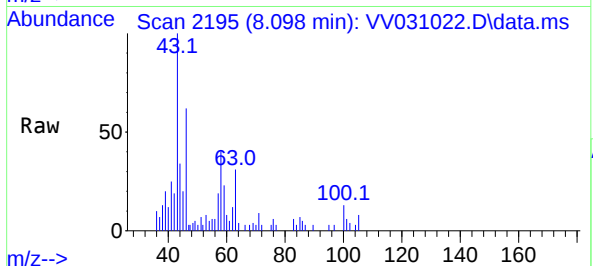




#48
2-Hexanone
Concen: 2.633 ug/L
RT: 8.098 min Scan# 2192
Delta R.T. 0.013 min
Lab File: VV031022.D
Acq: 15 May 2023 11:23

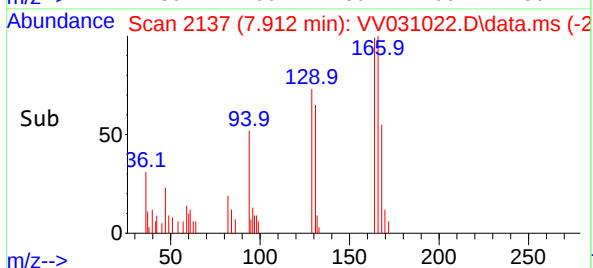
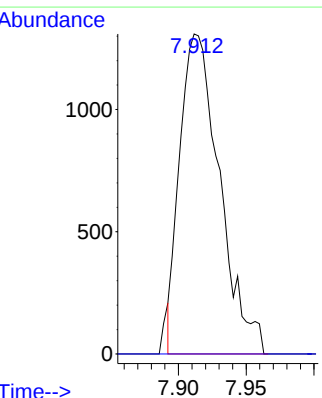
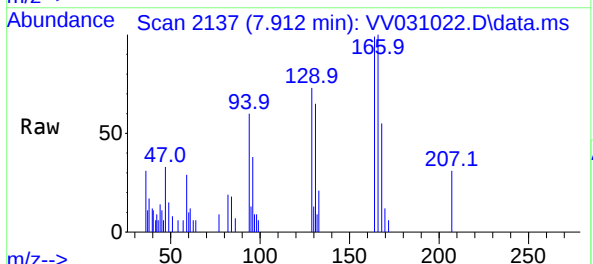
Instrument :
MSVOA_V
ClientSampleId :

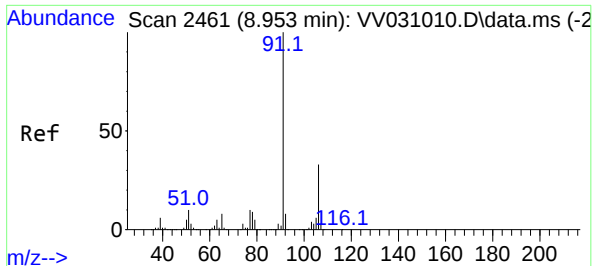
Tgt Ion: 43	Resp: 8459
Ion Ratio	Lower Upper
43 100	
58 51.3	39.9 59.9
57 15.4	14.1 21.1
100 8.0	9.7 14.5#



#49
Dibromochloromethane
Concen: 0.354 ug/L
RT: 7.912 min Scan# 2137
Delta R.T. -0.273 min
Lab File: VV031022.D
Acq: 15 May 2023 11:23

Tgt Ion:129	Resp:	2673	
Ion	Ratio	Lower	Upper
129	100		
127	0.0	55.3	102.7#

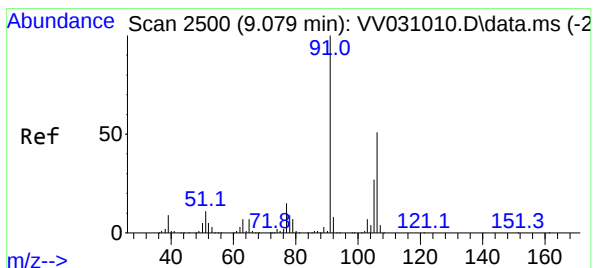
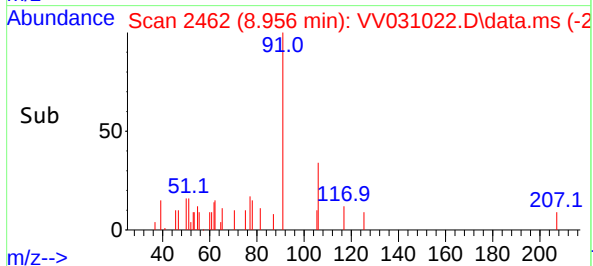
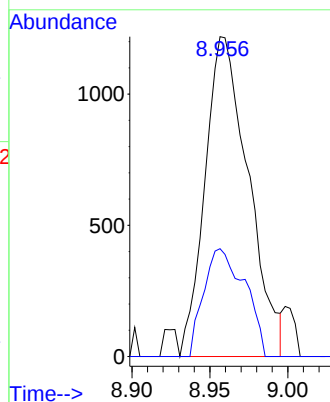
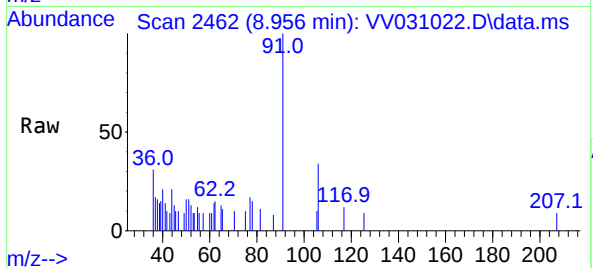




#52
Ethylbenzene
Concen: 0.059 ug/L
RT: 8.956 min Scan# 2461
Delta R.T. 0.003 min
Lab File: VV031022.D
Acq: 15 May 2023 11:23

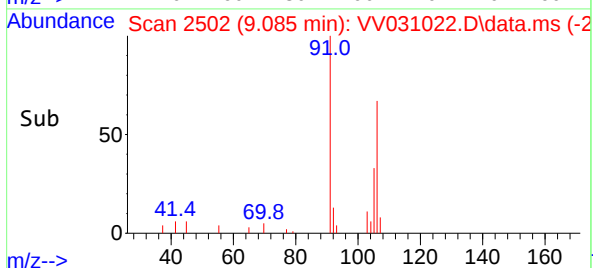
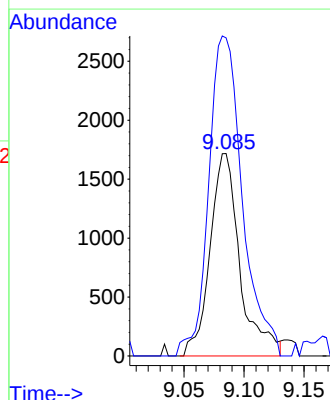
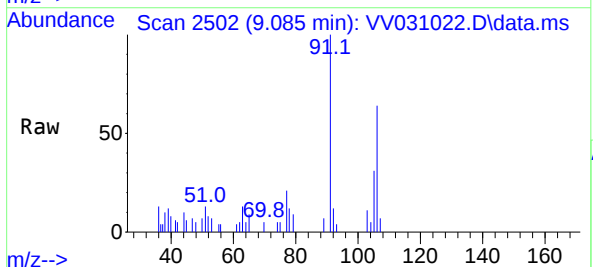
Instrument :
MSVOA_V
ClientSampleId :

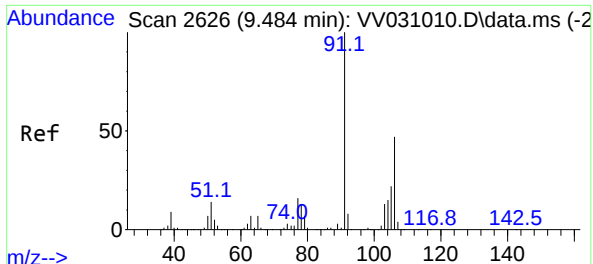
Tgt Ion: 91 Resp: 2352
Ion Ratio Lower Upper
91 100
106 33.7 21.4 39.8



#53
m,p-Xylene
Concen: 0.187 ug/L
RT: 9.085 min Scan# 2502
Delta R.T. 0.007 min
Lab File: VV031022.D
Acq: 15 May 2023 11:23

Tgt Ion: 106 Resp: 2982
Ion Ratio Lower Upper
106 100
91 157.2 138.7 257.5





#54

o-Xylene

Concen: 0.094 ug/L

RT: 9.490 min Scan# 2

Delta R.T. 0.007 min

Lab File: VV031022.D

Acq: 15 May 2023 11:23

Instrument :

MSVOA_V

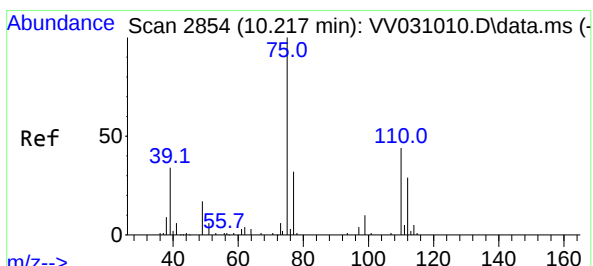
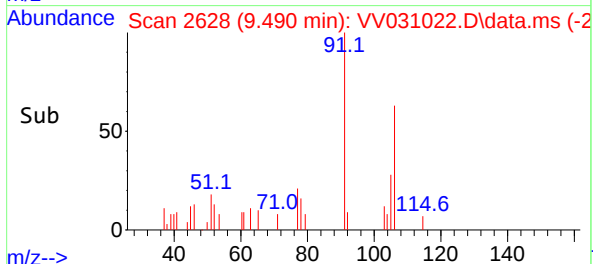
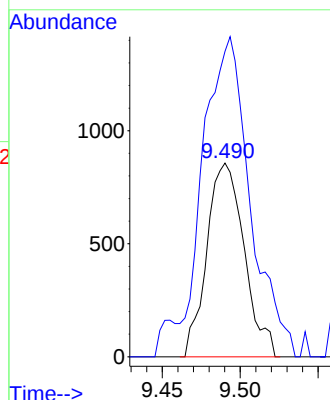
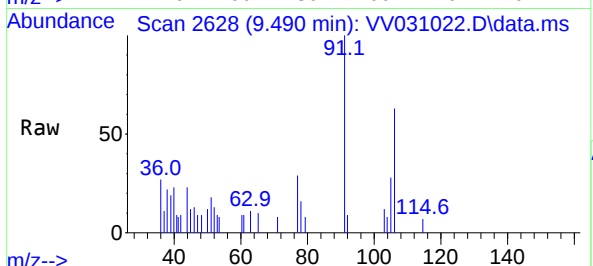
ClientSampleId :

Tgt Ion:106 Resp: 1426

Ion Ratio Lower Upper

106 100

91 157.6 145.1 269.5



#61

1,2,3-Trichloropropane

Concen: 1.818 ug/L

RT: 11.191 min Scan# 3157

Delta R.T. 0.974 min

Lab File: VV031022.D

Acq: 15 May 2023 11:23

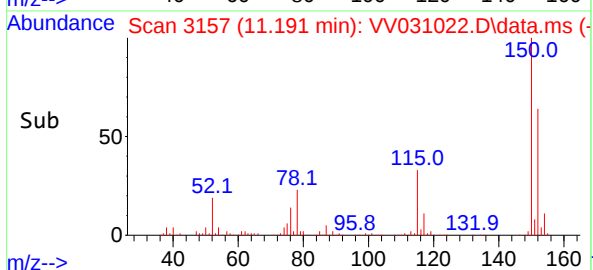
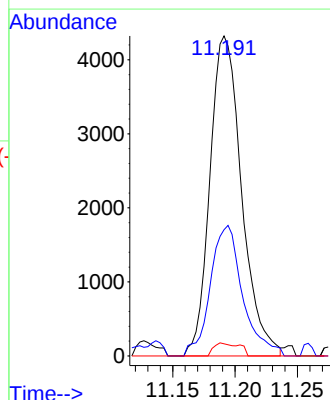
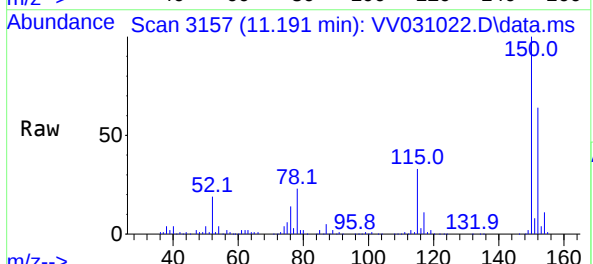
Tgt Ion: 75 Resp: 7669

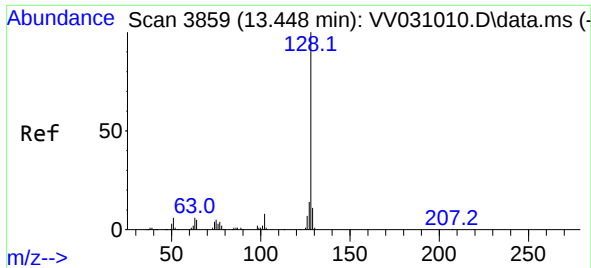
Ion Ratio Lower Upper

75 100

77 41.5 25.3 37.9#

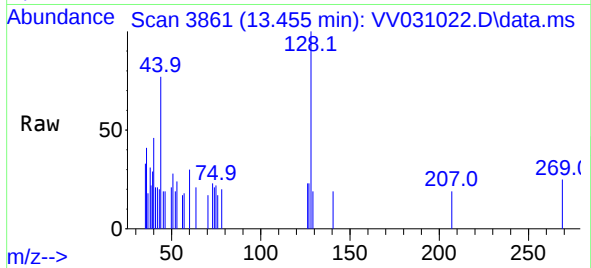
110 3.2 34.0 51.0#





#71
Naphthalene
Concen: 0.072 ug/L
RT: 13.455 min Scan# 3861
Delta R.T. 0.007 min
Lab File: VV031022.D
Acq: 15 May 2023 11:23

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:	128	Resp:	1162
Ion	Ratio	Lower	Upper
128	100		
129	7.5	8.6	13.0#
127	14.0	10.6	16.0

