

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100125\
 Data File : VX047933.D
 Acq On : 01 Oct 2025 12:43
 Operator : JC/MD
 Sample : Q3193-04RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT149S1-20250922

Quant Time: Oct 03 01:19:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

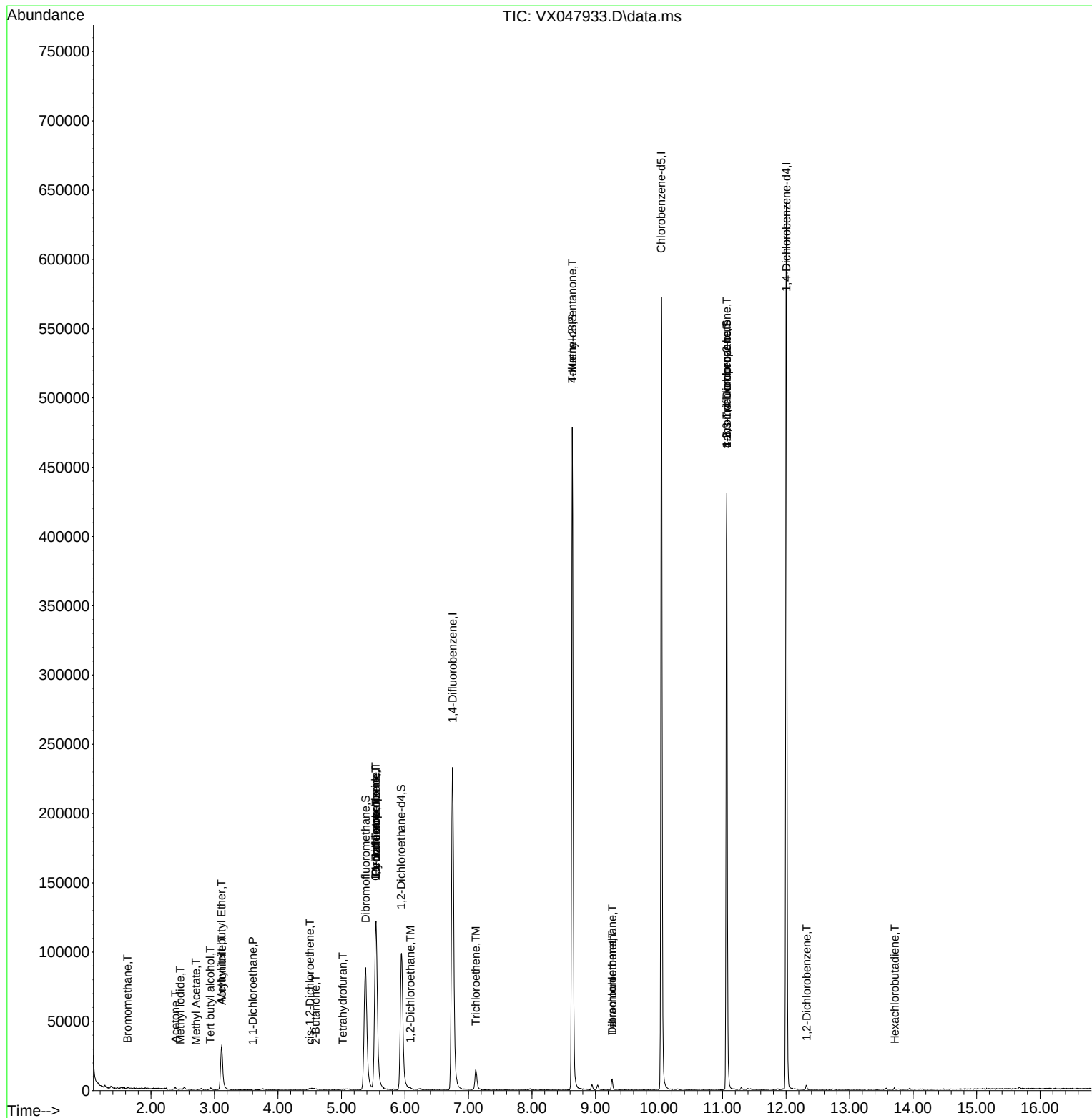
Internal Standards						
1) Pentafluorobenzene	5.544	168	121776	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	256925	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	264472	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	132812	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	108910	56.186	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	112.380%
35) Dibromofluoromethane	5.379	113	86568	50.240	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.480%
50) Toluene-d8	8.634	98	290629	48.745	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	97.500%
62) 4-Bromofluorobenzene	11.067	95	123665	54.652	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	109.300%
Target Compounds						
						Qvalue
5) Bromomethane	1.630	94	224	0.218	ug/l #	78
10) Methyl Iodide	2.459	142	495	0.225	ug/l #	86
11) Tert butyl alcohol	2.934	59	181	0.838	ug/l #	72
15) Acrylonitrile	3.117	53	375	0.469	ug/l #	20
16) Acetone	2.386	43	1668	1.979	ug/l #	73
18) Methyl Acetate	2.709	43	419	0.223	ug/l #	54
19) Methyl tert-butyl Ether	3.111	73	36698	6.948	ug/l	97
24) 1,1-Dichloroethane	3.605	63	691	0.225	ug/l #	81
25) 2-Butanone	4.593	43	282	0.268	ug/l #	50
27) cis-1,2-Dichloroethene	4.501	96	433	0.227	ug/l	48
29) Tetrahydrofuran	5.019	42	364	0.576	ug/l #	41
31) Cyclohexane	5.544	56	2630	1.027	ug/l #	1
36) 1,1-Dichloropropene	5.537	75	10427	4.141	ug/l #	48
38) Carbon Tetrachloride	5.537	117	13444	4.914	ug/l #	20
42) 1,2-Dichloroethane	6.086	62	938	0.322	ug/l #	76
44) Trichloroethene	7.116	130	6320	3.418	ug/l	95
51) 4-Methyl-2-Pentanone	8.634	43	1328	0.542	ug/l #	1
60) Dibromochloromethane	9.262	129	1382	0.660	ug/l #	11
64) Tetrachloroethene	9.262	164	1408	0.817	ug/l #	91
76) 1,2,3-Trichloropropane	11.067	75	63536	23.628	ug/l #	40
81) trans-1,4-Dichloro-2-b...	11.067	75	63536	60.254	ug/l #	8
91) 1,2-Dichlorobenzene	12.323	146	1002	0.228	ug/l	96
94) Hexachlorobutadiene	13.713	225	226	0.233	ug/l	88

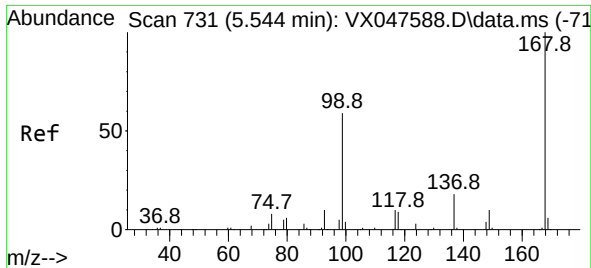
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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TT149S1-20250922

Quant Time: Oct 03 01:19:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
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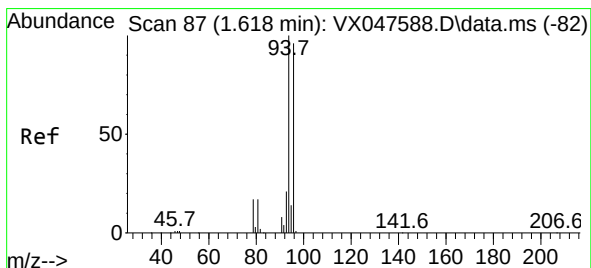
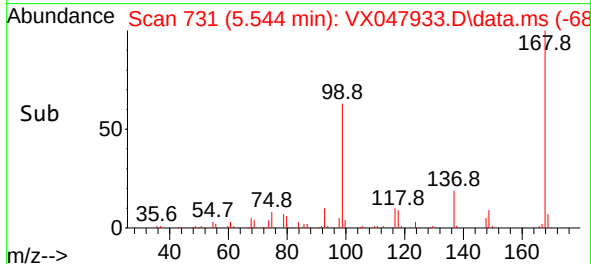
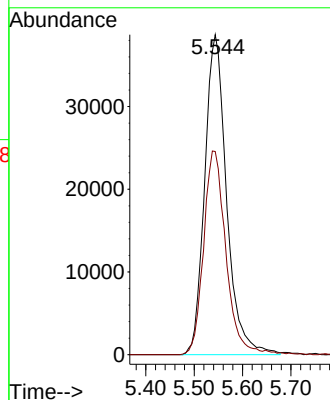
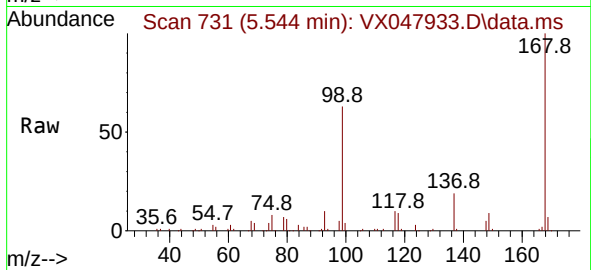




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

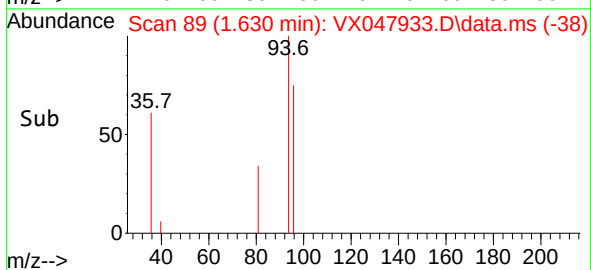
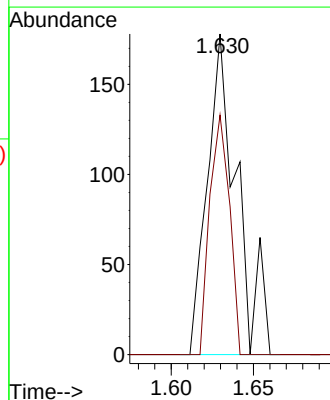
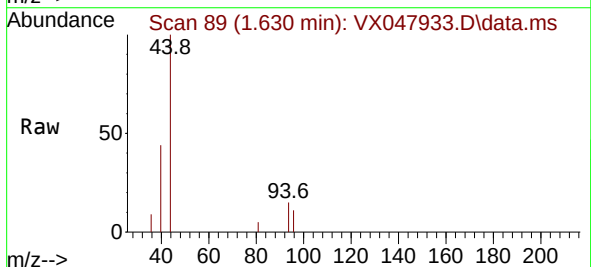
Instrument :
MSVOA_X
ClientSampleId :
TT149S1-20250922

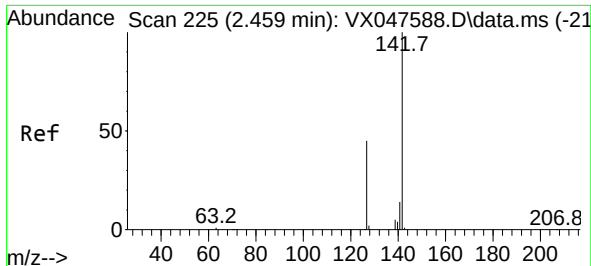
Tgt Ion:168 Resp: 121776
Ion Ratio Lower Upper
168 100
99 63.5 48.8 73.2



#5
Bromomethane
Concen: 0.218 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.012 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

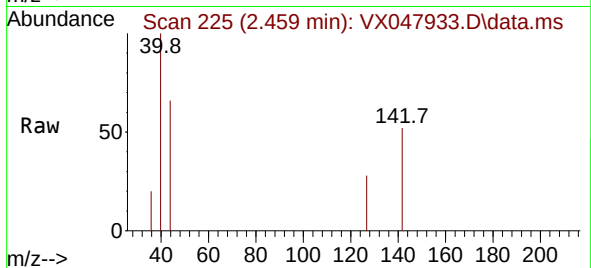
Tgt Ion: 94 Resp: 224
Ion Ratio Lower Upper
94 100
96 74.7 76.6 115.0#



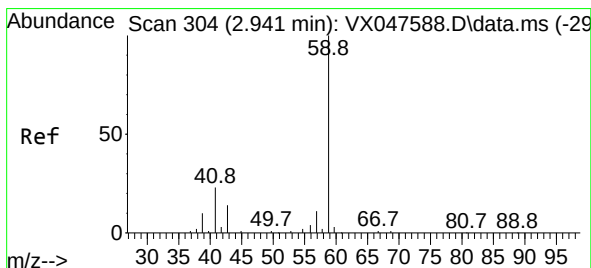
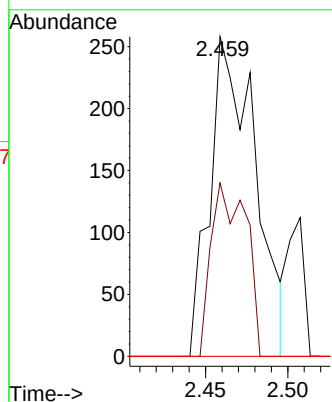
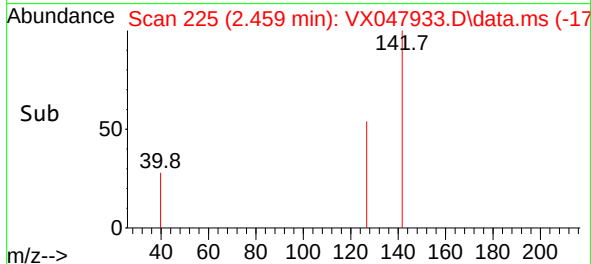


#10
Methyl Iodide
Concen: 0.225 ug/l
RT: 2.459 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

Instrument :
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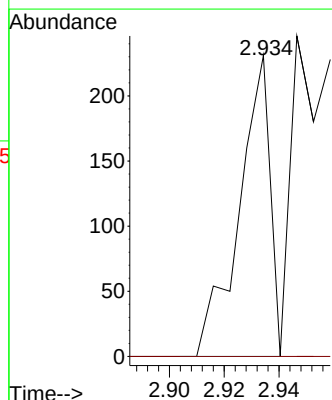
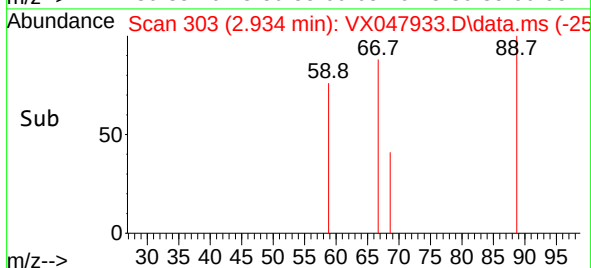
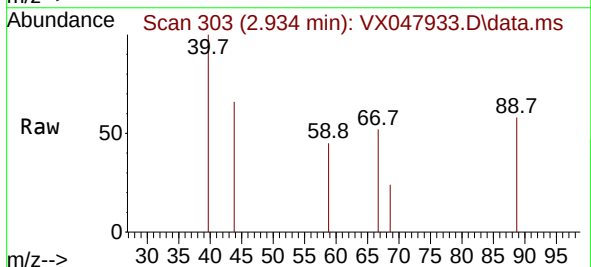


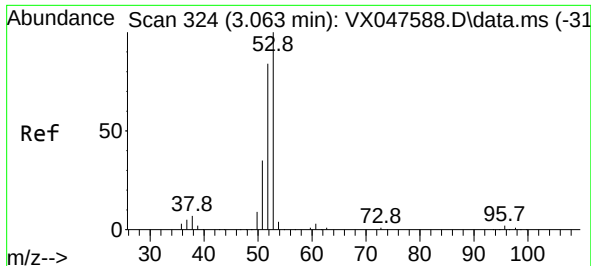
Tgt Ion:142 Resp: 495
Ion Ratio Lower Upper
142 100
127 41.8 37.2 55.8
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.838 ug/l
RT: 2.934 min Scan# 303
Delta R.T. -0.006 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

Tgt Ion: 59 Resp: 181
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

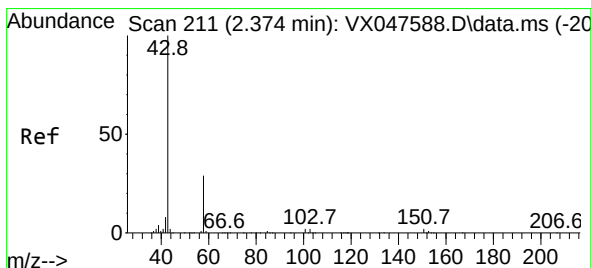
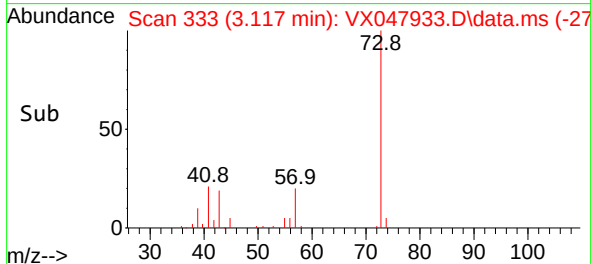
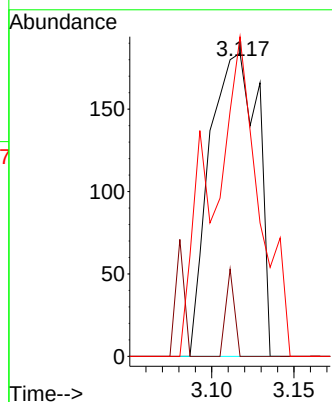
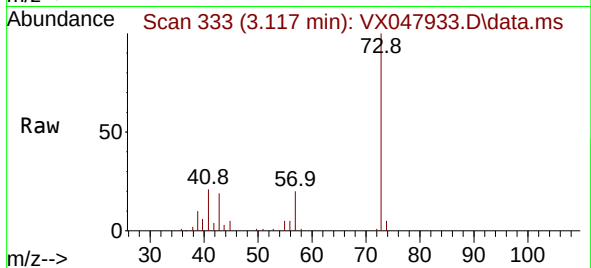




#15
Acrylonitrile
Concen: 0.469 ug/l
RT: 3.117 min Scan# 31
Delta R.T. 0.055 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

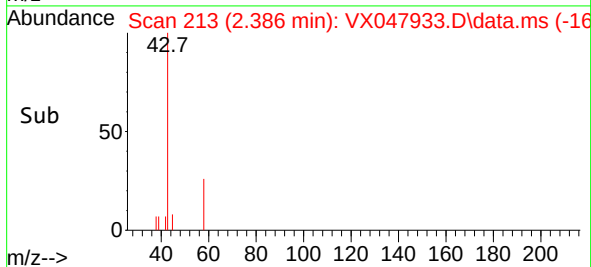
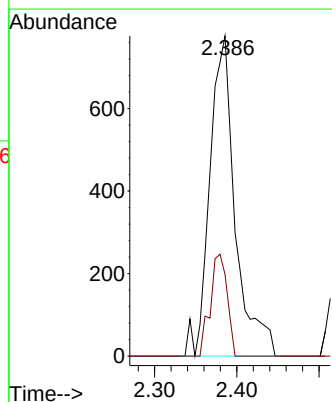
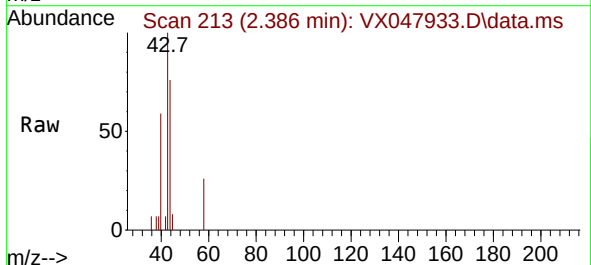
Instrument :
MSVOA_X
ClientSampleId :
TT149S1-20250922

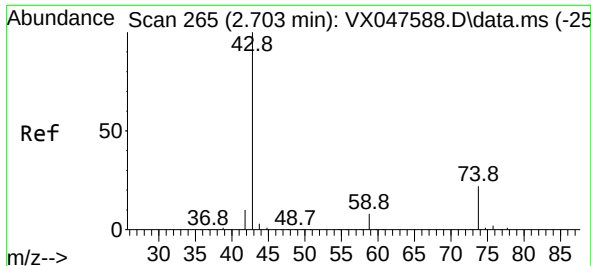
Tgt Ion: 53 Resp: 375
Ion Ratio Lower Upper
53 100
52 5.1 66.4 99.6#
51 76.3 29.5 44.3#



#16
Acetone
Concen: 1.979 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.012 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

Tgt Ion: 43 Resp: 1668
Ion Ratio Lower Upper
43 100
58 14.5 23.4 35.0#

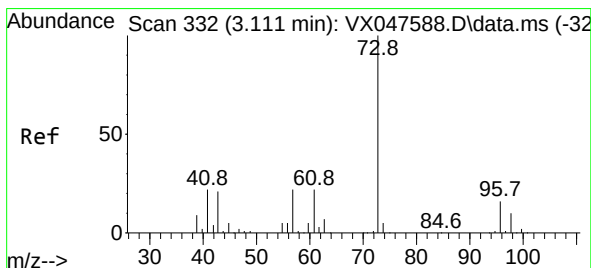
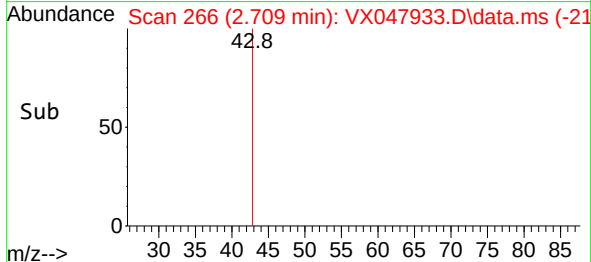
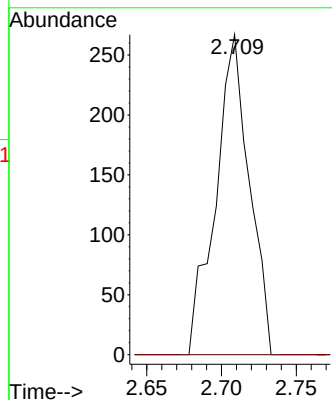
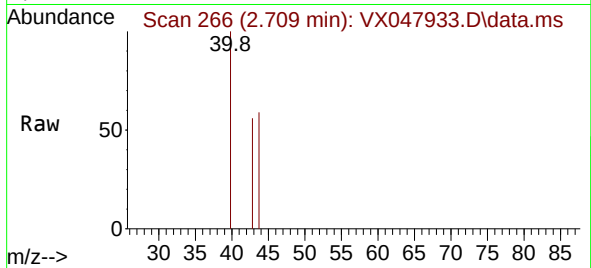




#18
Methyl Acetate
Concen: 0.223 ug/l
RT: 2.709 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

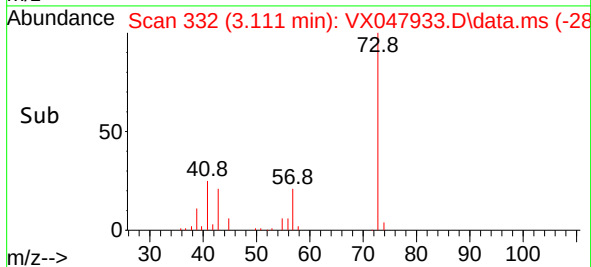
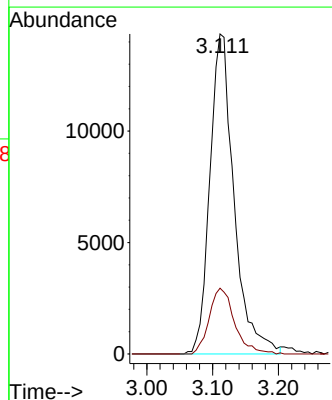
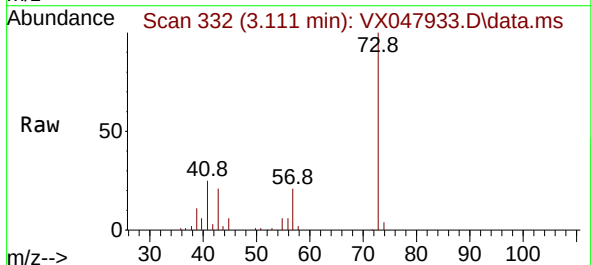
Instrument :
MSVOA_X
ClientSampleId :
TT149S1-20250922

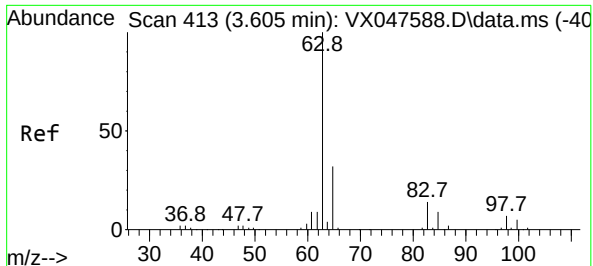
Tgt Ion: 43 Resp: 419
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.2#



#19
Methyl tert-butyl Ether
Concen: 6.948 ug/l
RT: 3.111 min Scan# 332
Delta R.T. -0.000 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

Tgt Ion: 73 Resp: 36698
Ion Ratio Lower Upper
73 100
57 20.6 17.4 26.2

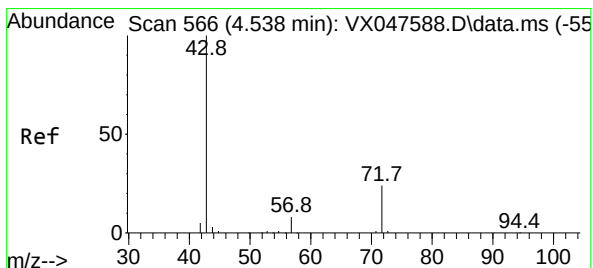
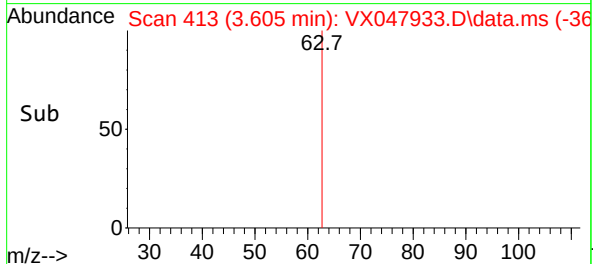
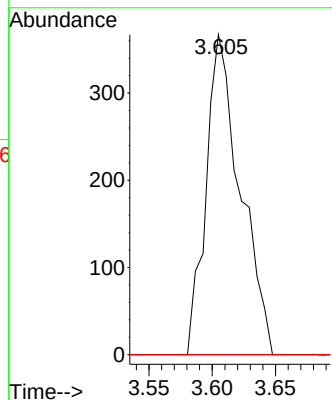
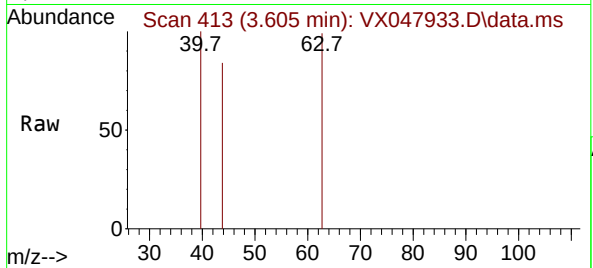




#24
 1,1-Dichloroethane
 Concen: 0.225 ug/l
 RT: 3.605 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VX047933.D
 Acq: 01 Oct 2025 12:43

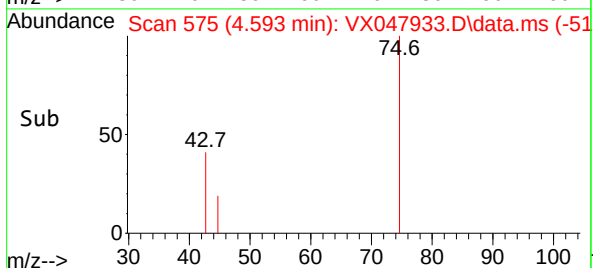
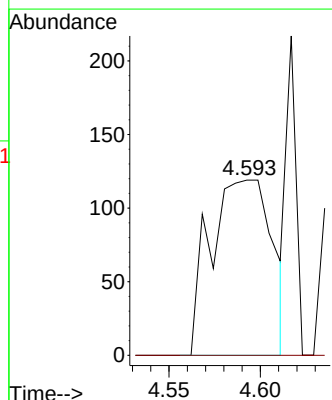
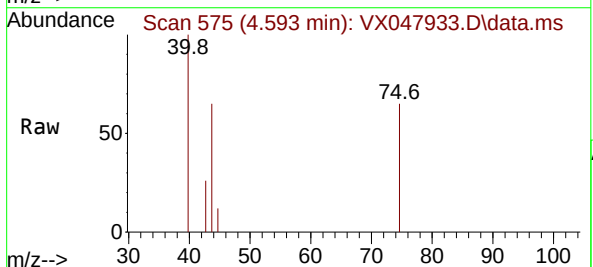
Instrument :
 MSVOA_X
 ClientSampleId :
 TT149S1-20250922

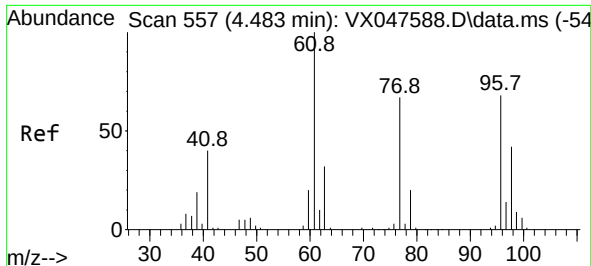
Tgt Ion: 63 Resp: 691
 Ion Ratio Lower Upper
 63 100
 98 0.0 3.8 11.2#
 100 0.0 2.3 6.9#



#25
 2-Butanone
 Concen: 0.268 ug/l
 RT: 4.593 min Scan# 575
 Delta R.T. 0.055 min
 Lab File: VX047933.D
 Acq: 01 Oct 2025 12:43

Tgt Ion: 43 Resp: 282
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.1 30.1#





#27

cis-1,2-Dichloroethene

Concen: 0.227 ug/l

RT: 4.501 min Scan# 51

Delta R.T. 0.018 min

Lab File: VX047933.D

Acq: 01 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

TT149S1-20250922

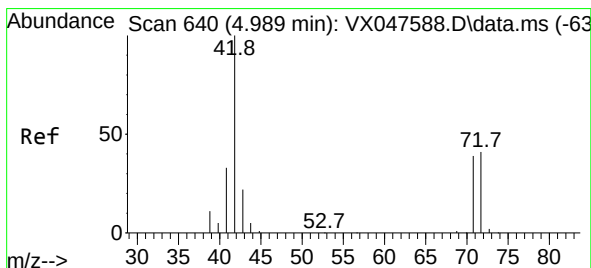
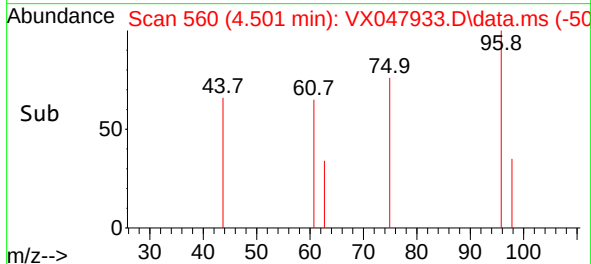
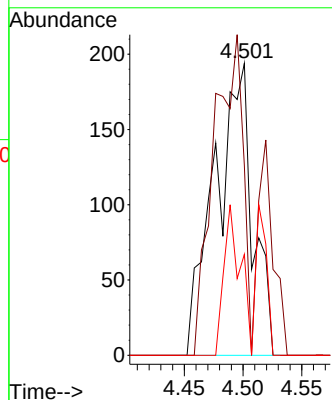
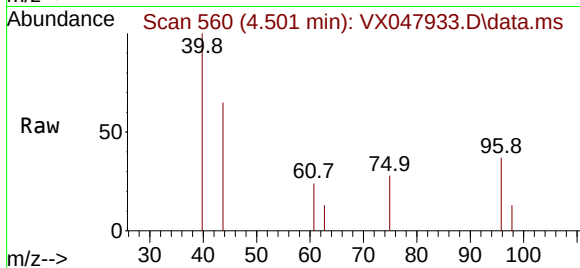
Tgt Ion: 96 Resp: 433

Ion Ratio Lower Upper

96 100

61 85.0 0.0 303.2

98 22.9 0.0 127.8



#29

Tetrahydrofuran

Concen: 0.576 ug/l

RT: 5.019 min Scan# 645

Delta R.T. 0.030 min

Lab File: VX047933.D

Acq: 01 Oct 2025 12:43

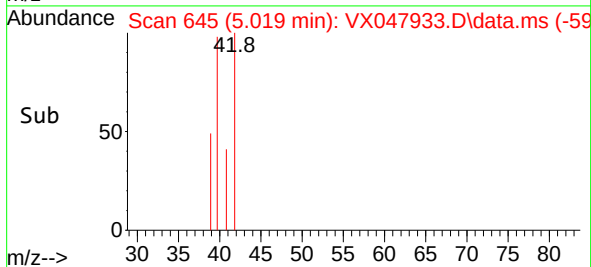
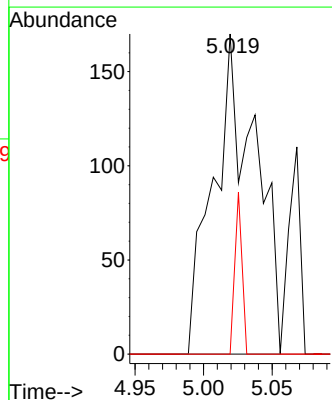
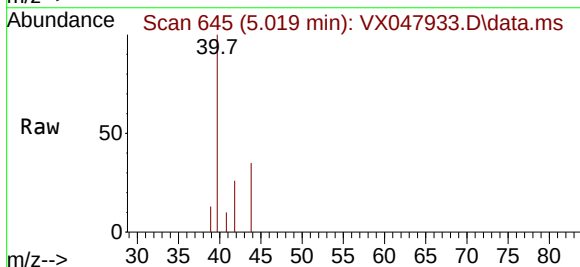
Tgt Ion: 42 Resp: 364

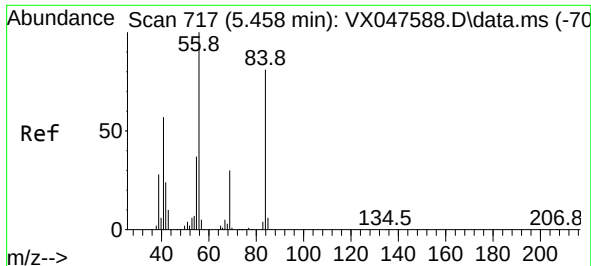
Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.2#

71 8.5 31.9 47.9#

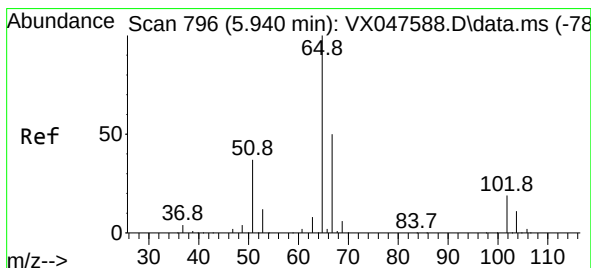
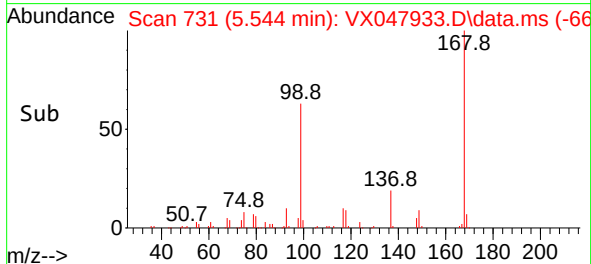
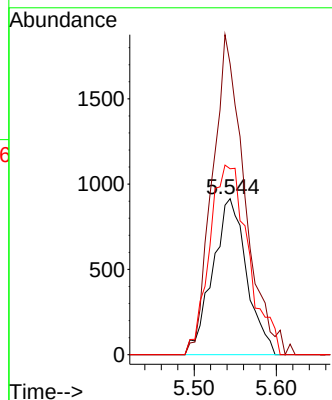
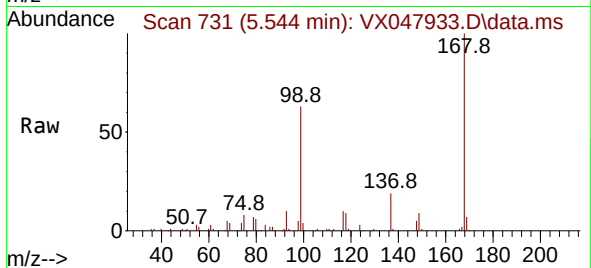




#31
Cyclohexane
Concen: 1.027 ug/l
RT: 5.544 min Scan# 717
Delta R.T. 0.085 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

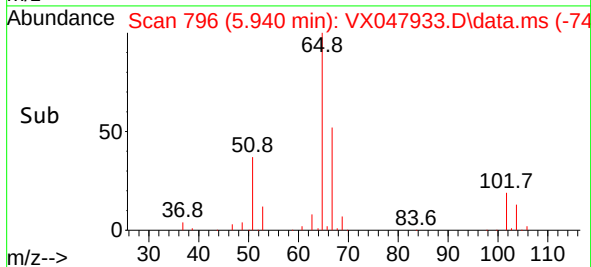
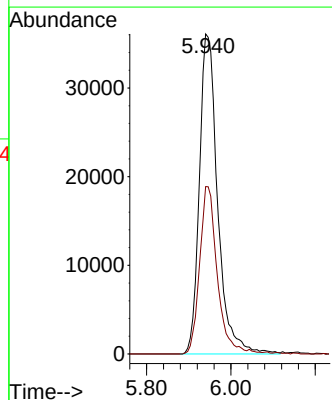
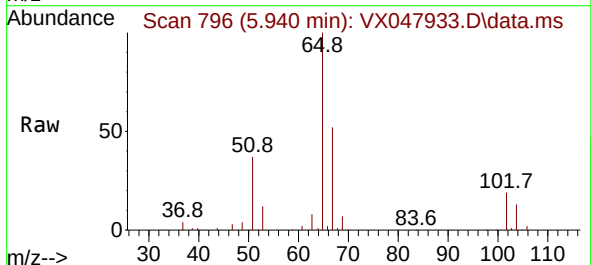
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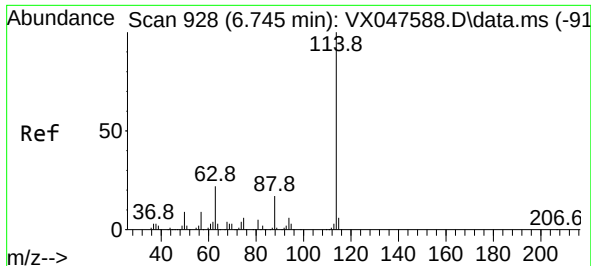
Tgt Ion: 56 Resp: 2630
Ion Ratio Lower Upper
56 100
69 186.2 23.8 35.8#
84 119.1 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 56.186 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

Tgt Ion: 65 Resp: 108910
Ion Ratio Lower Upper
65 100
67 50.5 0.0 103.0

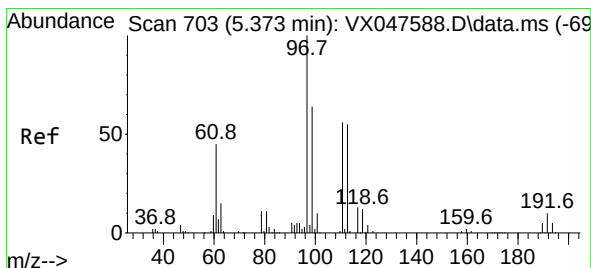
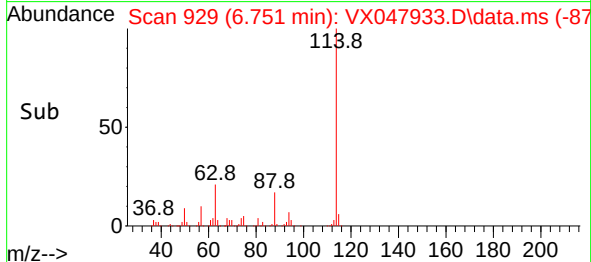
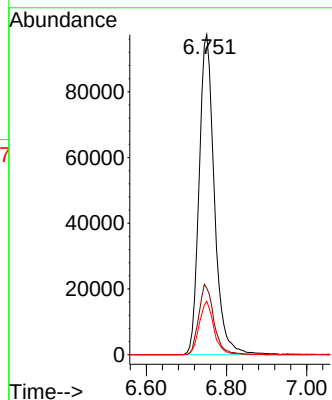
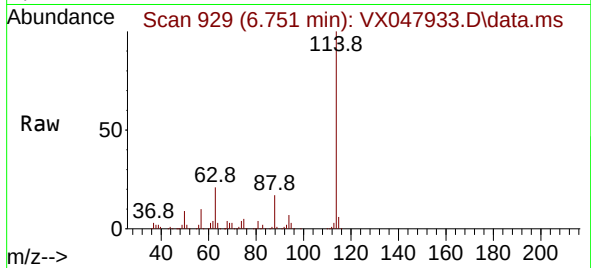




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

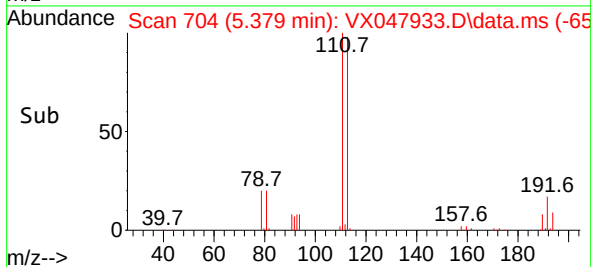
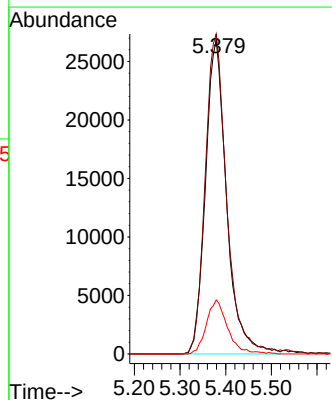
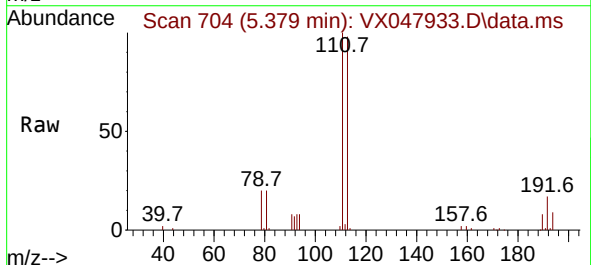
Instrument :
MSVOA_X
ClientSampleId :
TT149S1-20250922

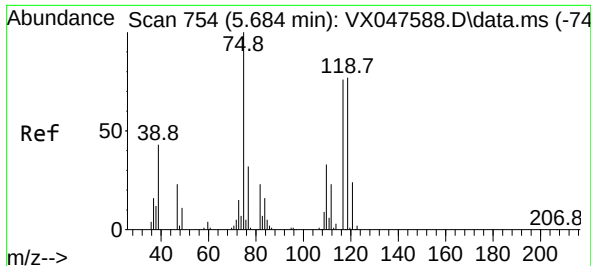
Tgt Ion:114 Resp: 256925
Ion Ratio Lower Upper
114 100
63 20.8 0.0 44.0
88 16.7 0.0 34.2



#35
Dibromofluoromethane
Concen: 50.240 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

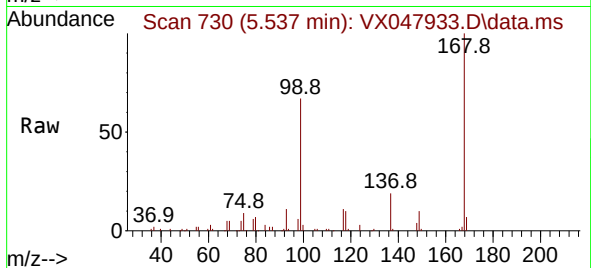
Tgt Ion:113 Resp: 86568
Ion Ratio Lower Upper
113 100
111 102.8 80.9 121.3
192 17.3 14.2 21.4



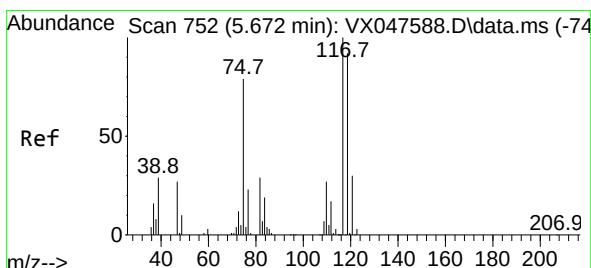
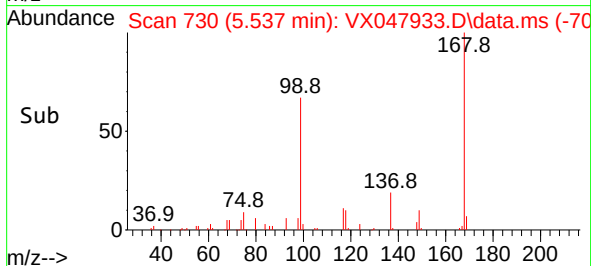
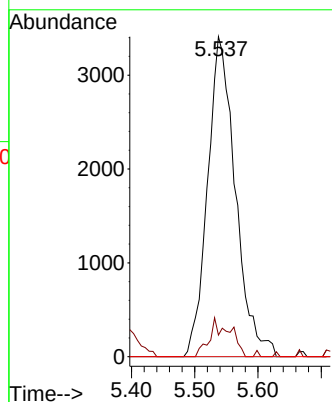


#36
1,1-Dichloropropene
Concen: 4.141 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.147 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
TT149S1-20250922

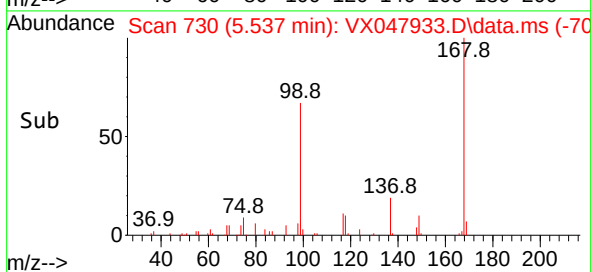
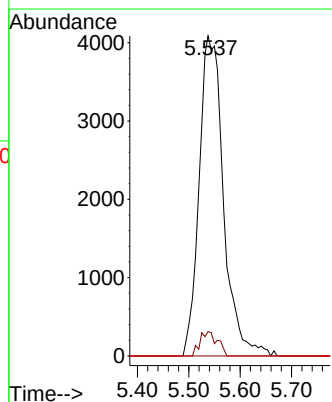
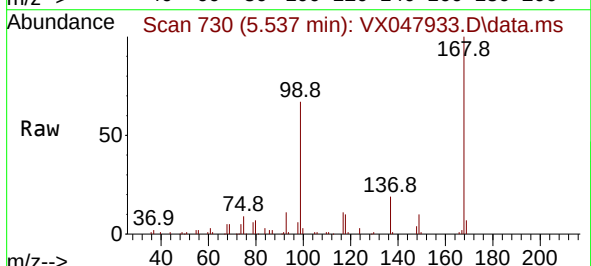


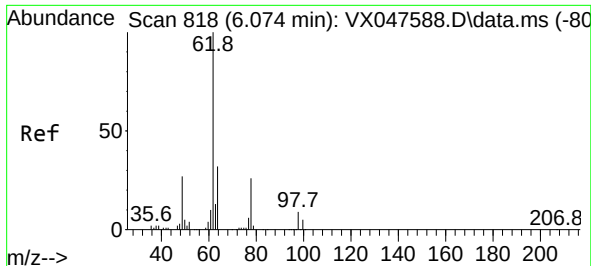
Tgt Ion: 75 Resp: 10427
Ion Ratio Lower Upper
75 100
110 6.1 16.7 50.1#
77 0.0 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 4.914 ug/l
RT: 5.537 min Scan# 730
Delta R.T. -0.134 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

Tgt Ion: 117 Resp: 13444
Ion Ratio Lower Upper
117 100
119 7.6 73.4 110.2#
121 0.0 23.8 35.6#





#42

1,2-Dichloroethane

Concen: 0.322 ug/l

RT: 6.086 min Scan# 81

Delta R.T. 0.012 min

Lab File: VX047933.D

Acq: 01 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

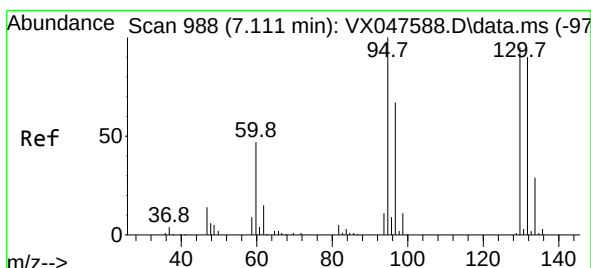
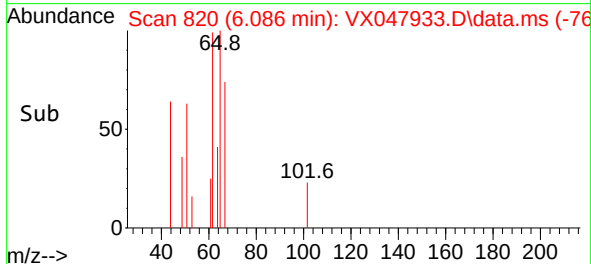
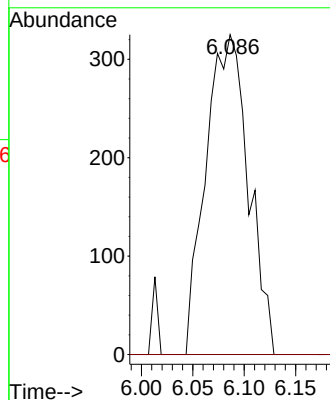
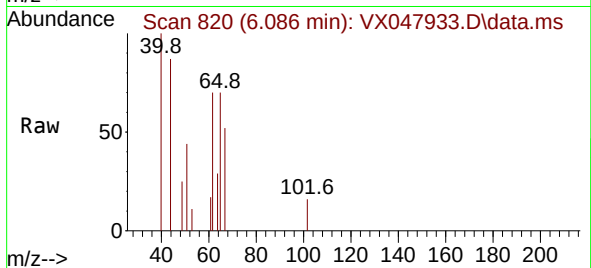
TT149S1-20250922

Tgt Ion: 62 Resp: 938

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.0



#44

Trichloroethene

Concen: 3.418 ug/l

RT: 7.116 min Scan# 989

Delta R.T. 0.006 min

Lab File: VX047933.D

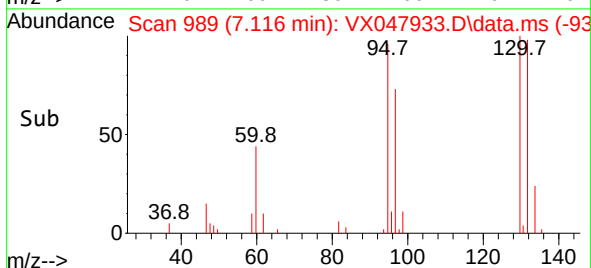
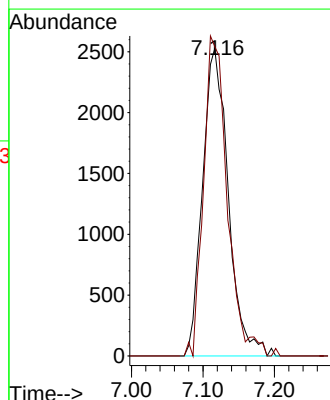
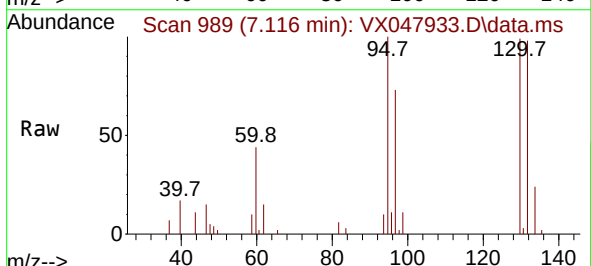
Acq: 01 Oct 2025 12:43

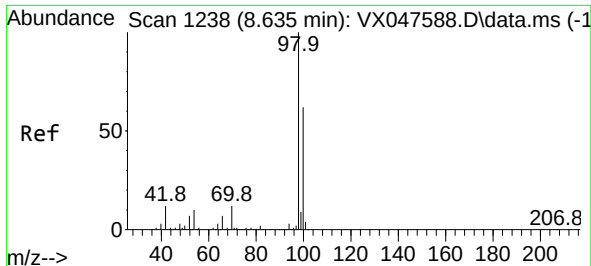
Tgt Ion:130 Resp: 6320

Ion Ratio Lower Upper

130 100

95 100.6 0.0 210.8

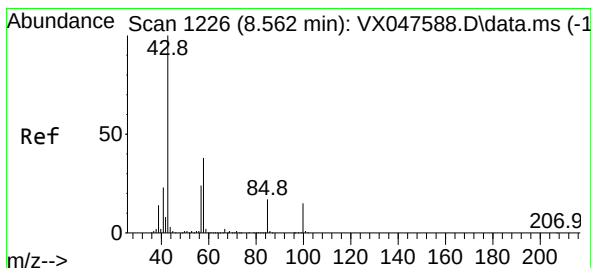
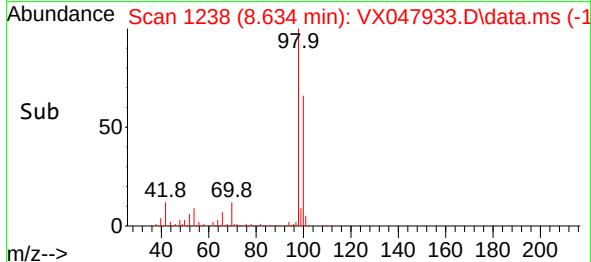
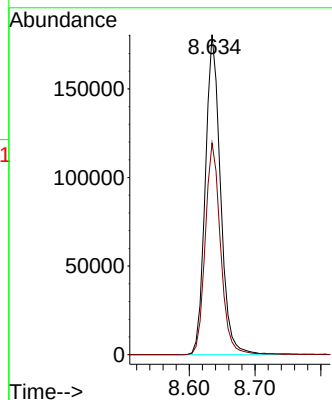
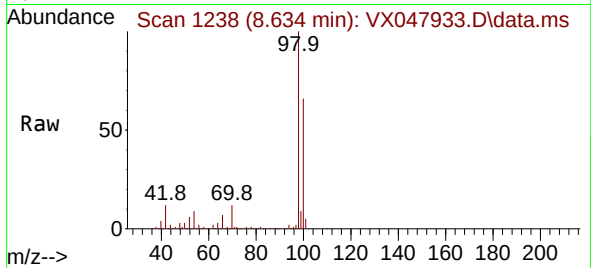




#50
Toluene-d8
Concen: 48.745 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

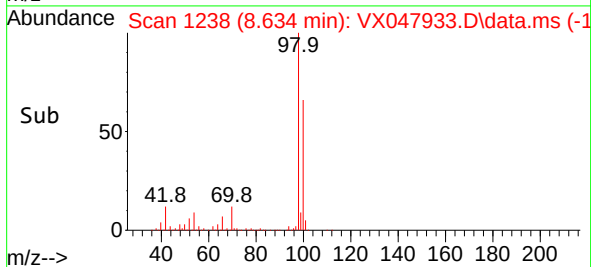
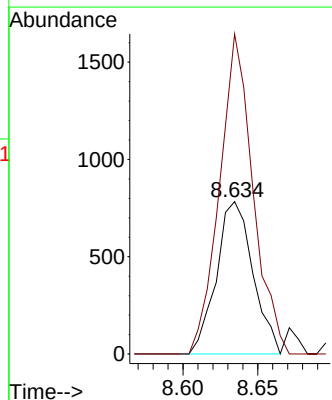
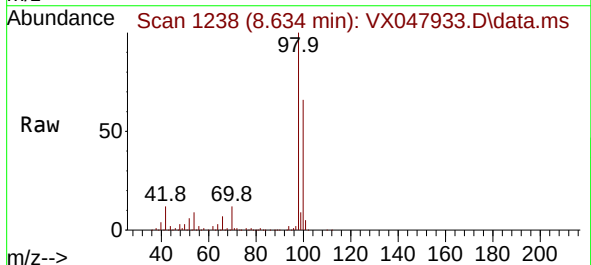
Instrument :
MSVOA_X
ClientSampleId :
TT149S1-20250922

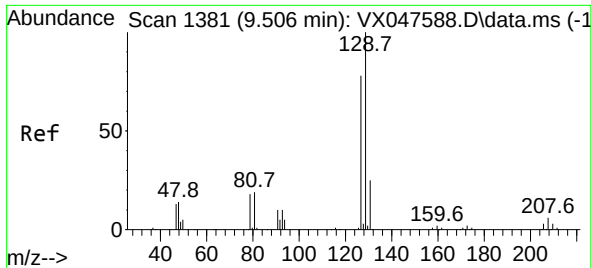
Tgt Ion: 98 Resp: 290629
Ion Ratio Lower Upper
98 100
100 66.7 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 0.542 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. 0.073 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

Tgt Ion: 43 Resp: 1328
Ion Ratio Lower Upper
43 100
58 192.8 30.3 45.5#

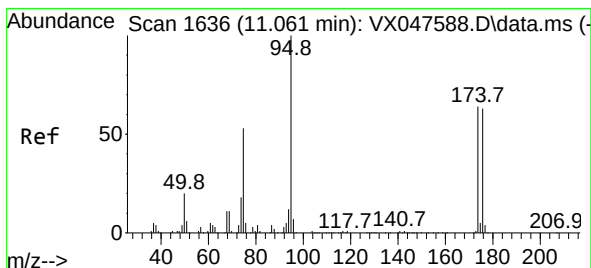
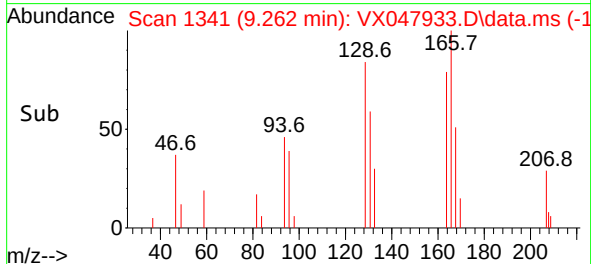
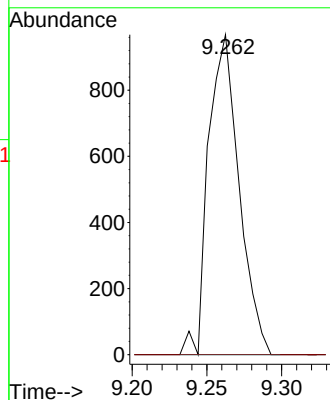
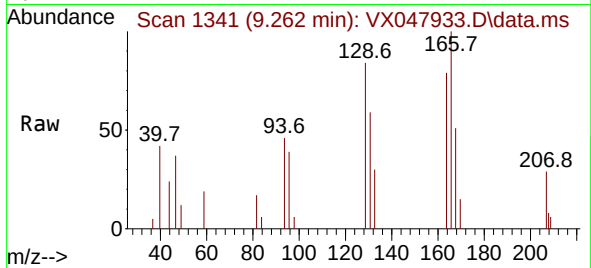




#60
Dibromochloromethane
Concen: 0.660 ug/l
RT: 9.262 min Scan# 11
Delta R.T. -0.244 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

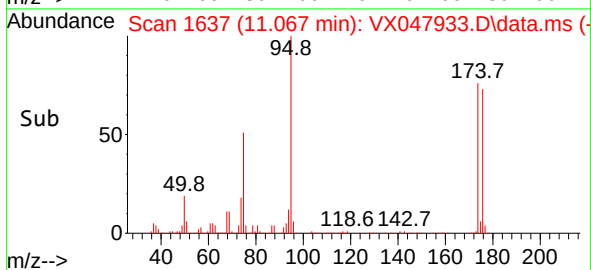
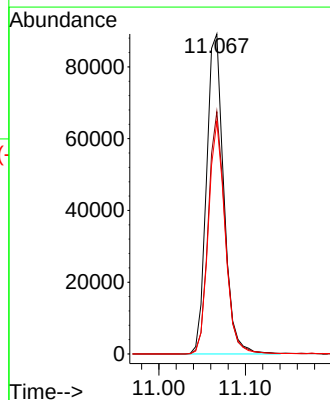
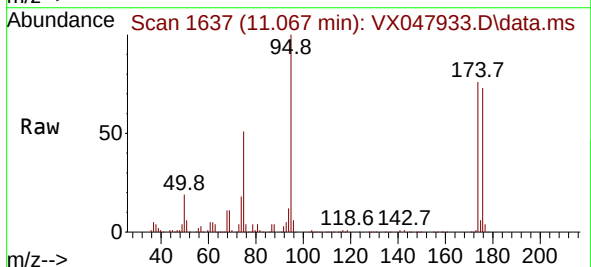
Instrument :
MSVOA_X
ClientSampleId :
TT149S1-20250922

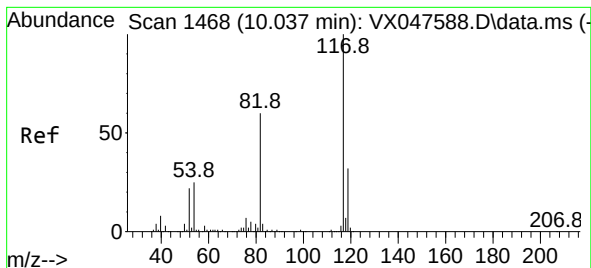
Tgt Ion:129 Resp: 1382
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 54.652 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

Tgt Ion: 95 Resp: 123665
Ion Ratio Lower Upper
95 100
174 73.3 0.0 141.6
176 70.5 0.0 138.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX047933.D

Acq: 01 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

TT149S1-20250922

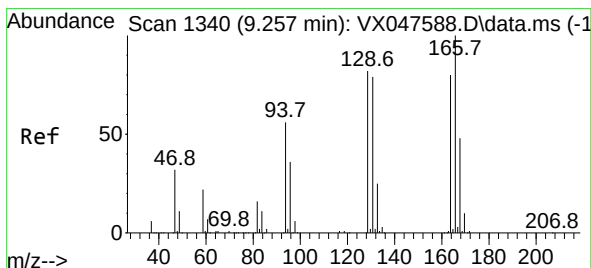
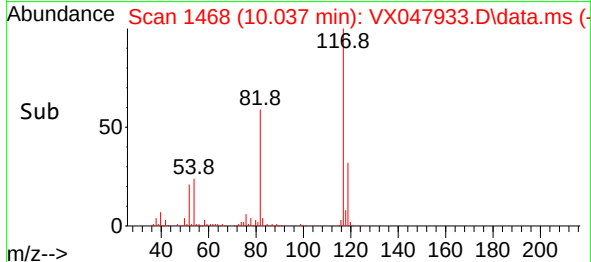
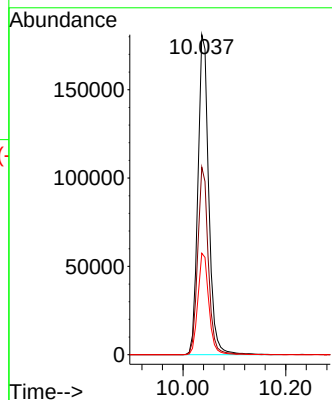
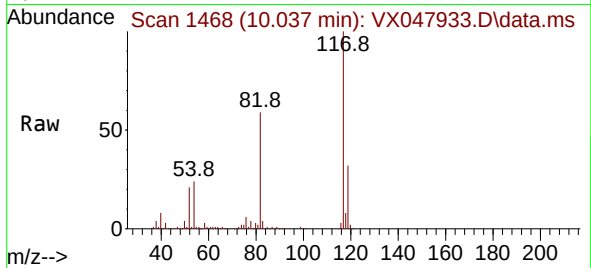
Tgt Ion:117 Resp: 264472

Ion Ratio Lower Upper

117 100

82 58.6 47.8 71.6

119 31.7 25.2 37.8



#64

Tetrachloroethene

Concen: 0.817 ug/l

RT: 9.262 min Scan# 1341

Delta R.T. 0.006 min

Lab File: VX047933.D

Acq: 01 Oct 2025 12:43

Tgt Ion:164 Resp: 1408

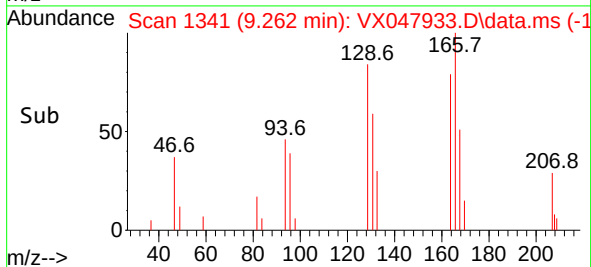
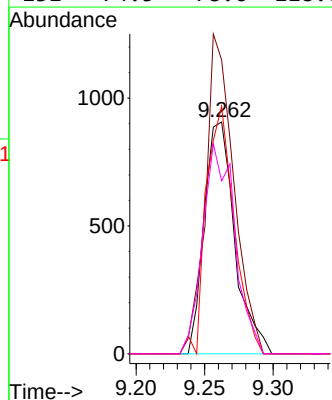
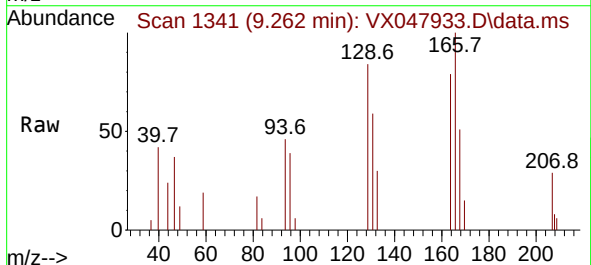
Ion Ratio Lower Upper

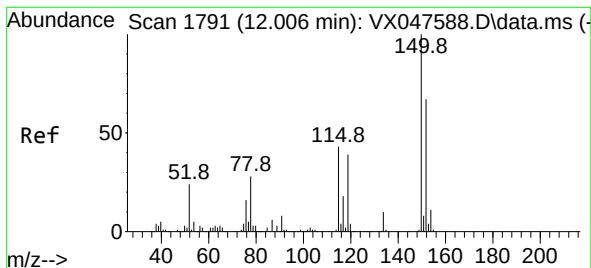
164 100

166 126.7 100.2 150.2

129 106.7 81.8 122.6

131 74.5 78.6 118.0#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX047933.D

Acq: 01 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

TT149S1-20250922

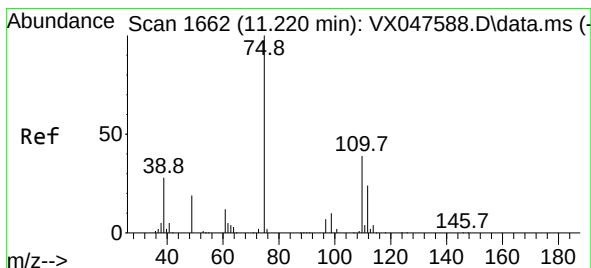
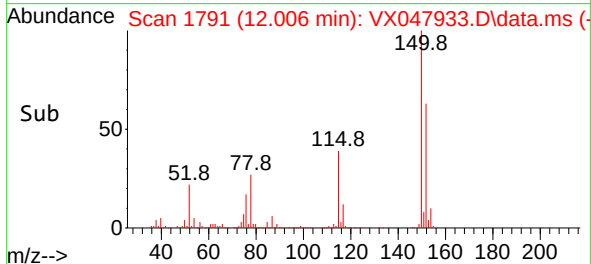
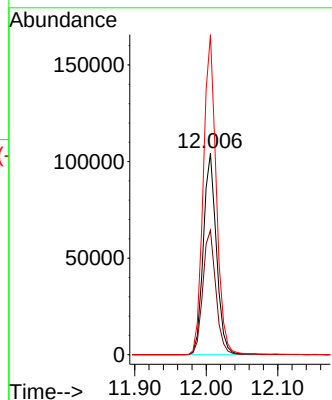
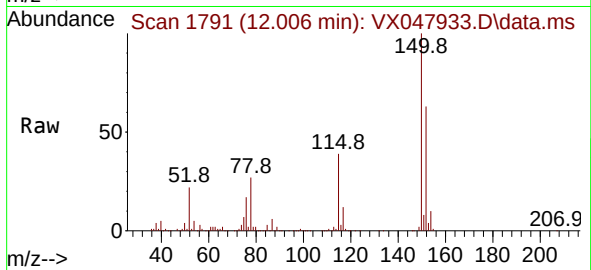
Tgt Ion:152 Resp: 132812

Ion Ratio Lower Upper

152 100

115 61.4 44.9 134.5

150 157.4 0.0 352.0



#76

1,2,3-Trichloropropane

Concen: 23.628 ug/l

RT: 11.067 min Scan# 1637

Delta R.T. -0.153 min

Lab File: VX047933.D

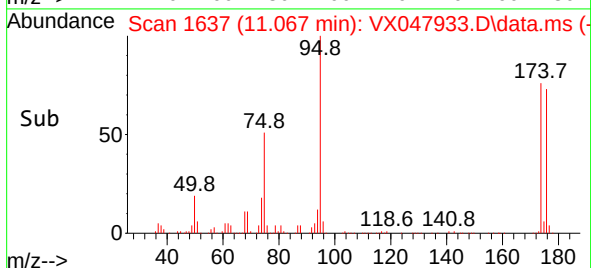
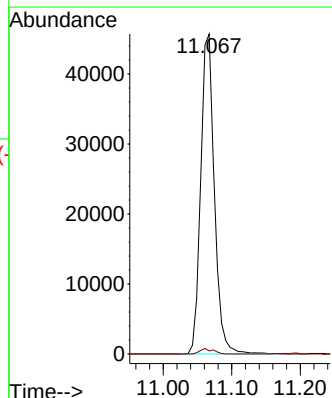
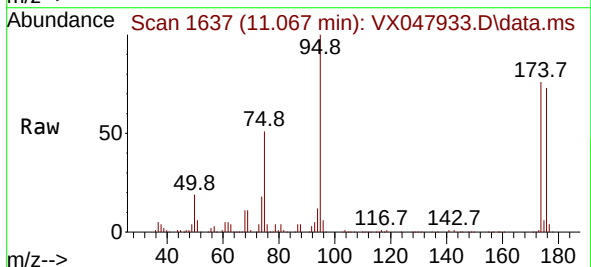
Acq: 01 Oct 2025 12:43

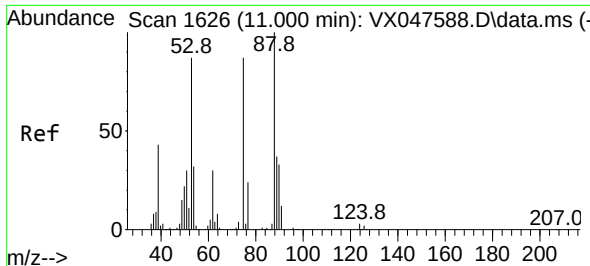
Tgt Ion: 75 Resp: 63536

Ion Ratio Lower Upper

75 100

77 1.6 18.8 56.4#

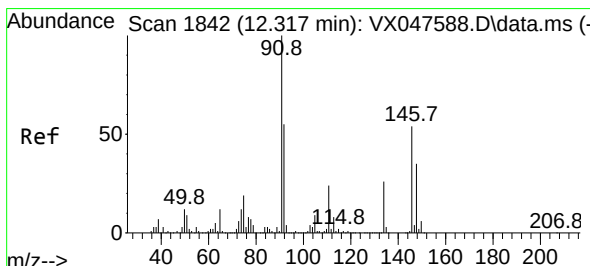
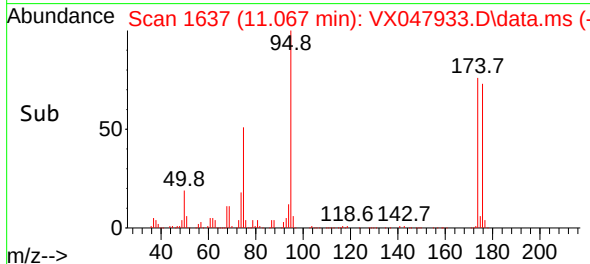
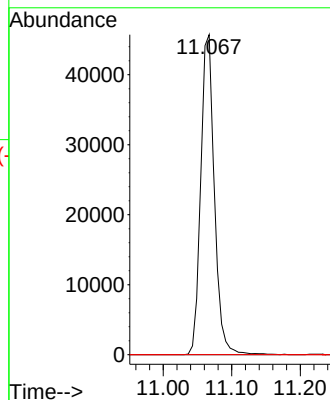
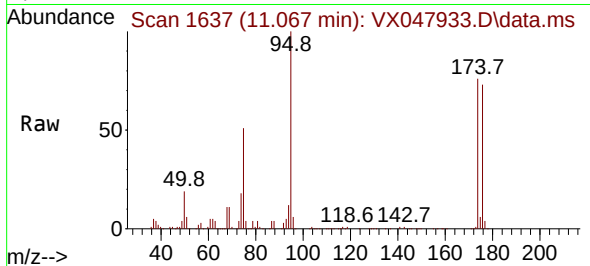




#81
trans-1,4-Dichloro-2-butene
Concen: 60.254 ug/l
RT: 11.067 min Scan# 1626
Delta R.T. 0.067 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

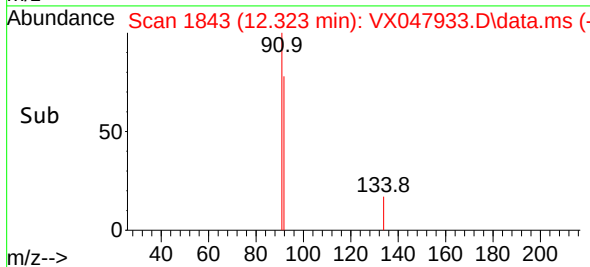
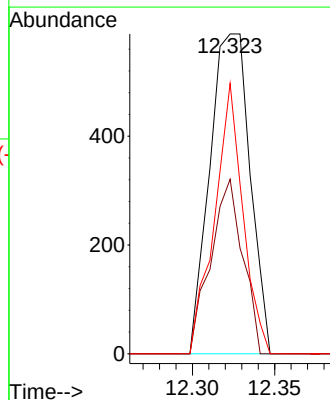
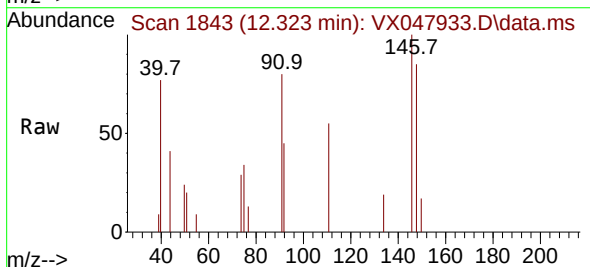
Instrument :
MSVOA_X
ClientSampleId :
TT149S1-20250922

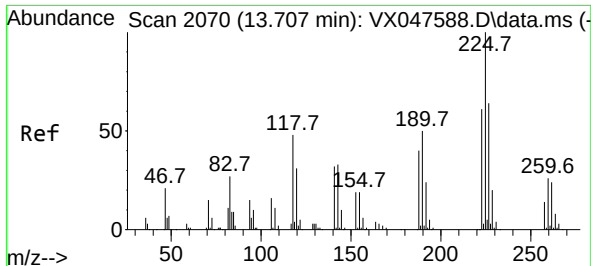
Tgt Ion: 75 Resp: 63536
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#



#91
1,2-Dichlorobenzene
Concen: 0.228 ug/l
RT: 12.323 min Scan# 1843
Delta R.T. 0.006 min
Lab File: VX047933.D
Acq: 01 Oct 2025 12:43

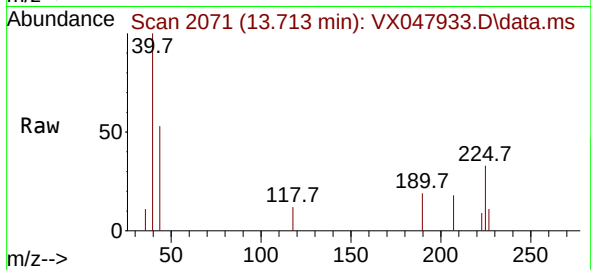
Tgt Ion:146 Resp: 1002
Ion Ratio Lower Upper
146 100
111 43.4 22.2 66.6
148 59.7 31.8 95.4





#94
 Hexachlorobutadiene
 Concen: 0.233 ug/l
 RT: 13.713 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VX047933.D
 Acq: 01 Oct 2025 12:43

Instrument :
 MSVOA_X
 ClientSampleId :
 TT149S1-20250922



Tgt Ion:	225	Resp:	226
Ion	Ratio	Lower	Upper
225	100		
223	48.2	31.7	95.1
227	66.8	32.0	96.0

