

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092525\
 Data File : VX047817.D
 Acq On : 25 Sep 2025 17:03
 Operator : JC/MD
 Sample : Q3127-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP08-20250915

Quant Time: Sep 26 01:31:36 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)

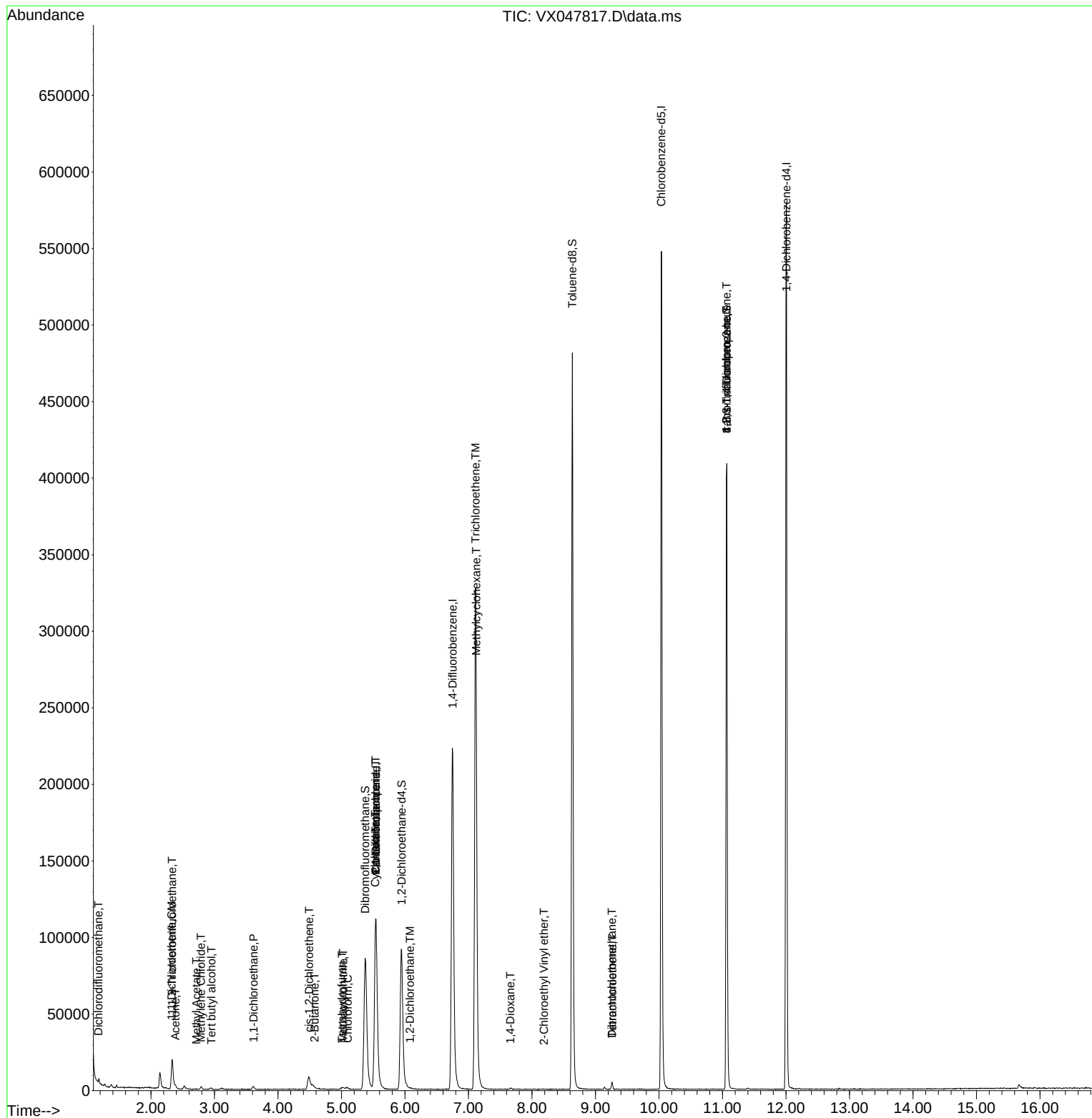
Internal Standards						
1) Pentafluorobenzene	5.544	168	113877	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	245918	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	250155	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	122323	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	99112	54.678	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 109.360%	
35) Dibromofluoromethane	5.373	113	85257	51.694	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.380%	
50) Toluene-d8	8.635	98	287005	50.292	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 100.580%	
62) 4-Bromofluorobenzene	11.061	95	120370	55.577	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 111.160%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	679	0.576	ug/l	85
9) 1,1,2-Trichlorotrifluo...	2.331	101	7257	5.510	ug/l	98
11) Tert butyl alcohol	2.953	59	287	1.422	ug/l #	72
12) 1,1-Dichloroethene	2.325	96	2185	1.615	ug/l	89
16) Acetone	2.386	43	2486	3.154	ug/l #	80
18) Methyl Acetate	2.715	43	398	0.227	ug/l #	54
20) Methylene Chloride	2.788	84	804	0.482	ug/l	92
24) 1,1-Dichloroethane	3.617	63	2779	0.966	ug/l #	91
25) 2-Butanone	4.574	43	1050	1.068	ug/l #	50
27) cis-1,2-Dichloroethene	4.489	96	5971	3.347	ug/l	91
29) Tetrahydrofuran	5.007	42	675	1.141	ug/l #	80
30) Chloroform	5.099	83	1488	0.512	ug/l #	83
31) Cyclohexane	5.532	56	1705	0.712	ug/l #	10
36) 1,1-Dichloropropene	5.538	75	9620	3.992	ug/l #	51
38) Carbon Tetrachloride	5.538	117	12201	4.660	ug/l #	18
39) Methylcyclohexane	7.123	83	2491	0.911	ug/l #	1
41) Methacrylonitrile	5.026	41	932	0.700	ug/l #	43
42) 1,2-Dichloroethane	6.080	62	906	0.325	ug/l #	76
44) Trichloroethene	7.111	130	138235	78.115	ug/l	97
49) 1,4-Dioxane	7.659	88	499	23.423	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.190	63	56	7.935	ug/l #	47
60) Dibromochloromethane	9.257	129	901	0.450	ug/l #	11
64) Tetrachloroethene	9.263	164	861	0.528	ug/l #	82
76) 1,2,3-Trichloropropane	11.061	75	61631	24.885	ug/l #	40
81) trans-1,4-Dichloro-2-b...	11.061	75	61631	63.460	ug/l #	8

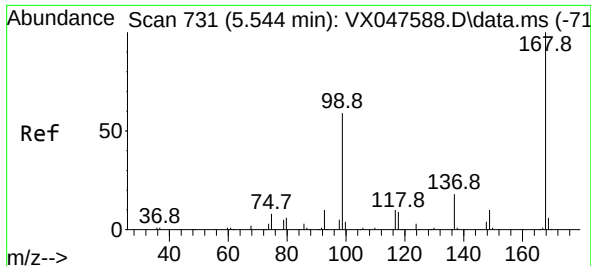
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
DUP08-20250915

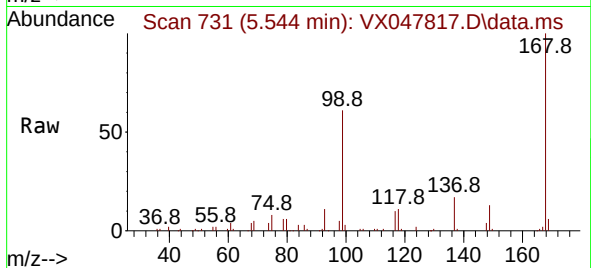
Quant Time: Sep 26 01:31:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



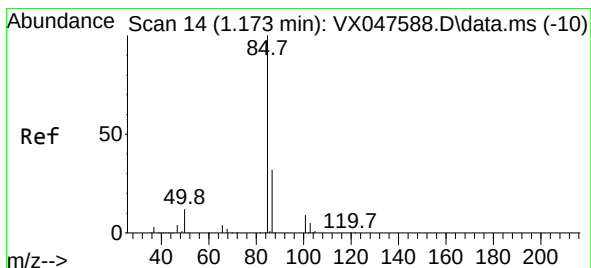
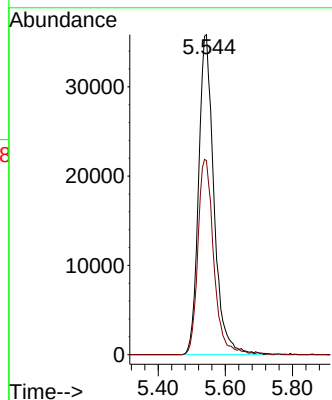
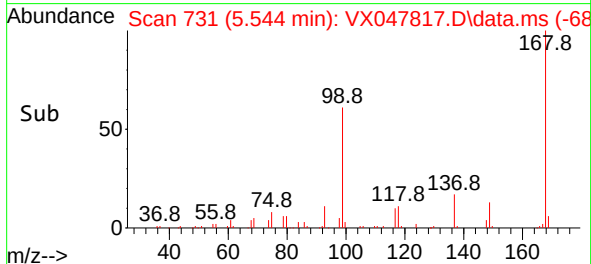


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047817.D
Acq: 25 Sep 2025 17:03

Instrument :
MSVOA_X
ClientSampleId :
DUP08-20250915

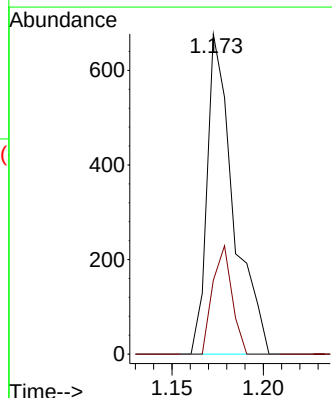
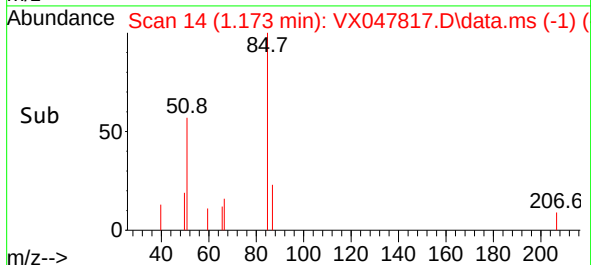
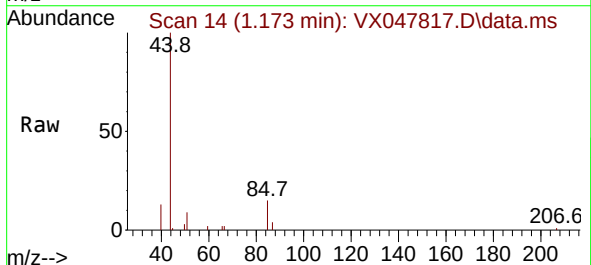


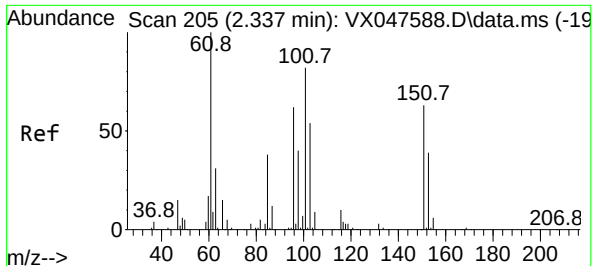
Tgt Ion:168 Resp: 113877
Ion Ratio Lower Upper
168 100
99 60.6 48.8 73.2



#2
Dichlorodifluoromethane
Concen: 0.576 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047817.D
Acq: 25 Sep 2025 17:03

Tgt Ion: 85 Resp: 679
Ion Ratio Lower Upper
85 100
87 23.0 15.8 47.3

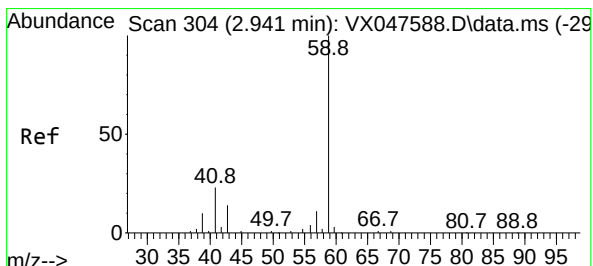
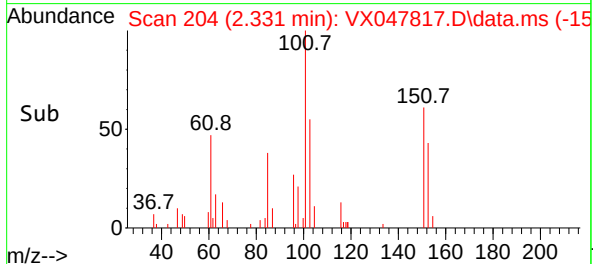
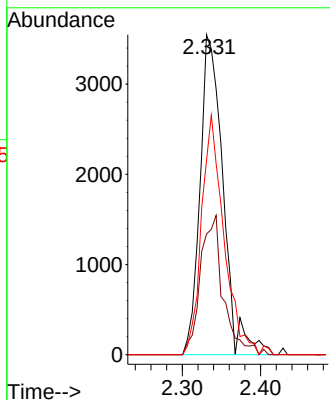
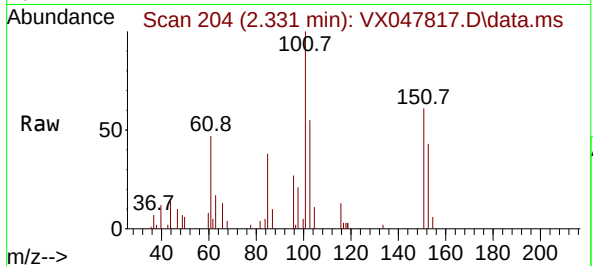




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.510 ug/l
RT: 2.331 min Scan# 205
Delta R.T. -0.006 min
Lab File: VX047817.D
Acq: 25 Sep 2025 17:03

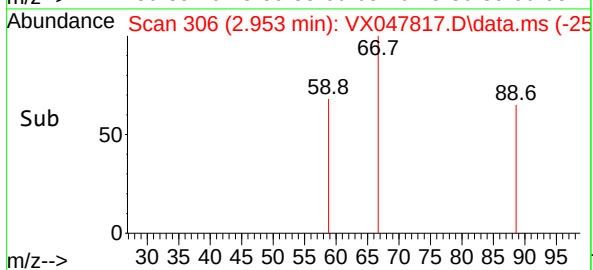
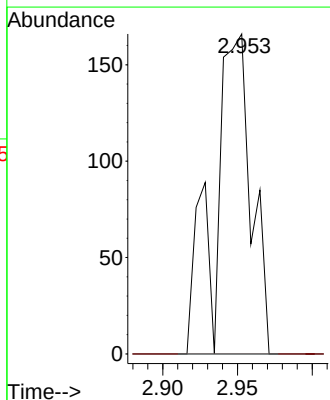
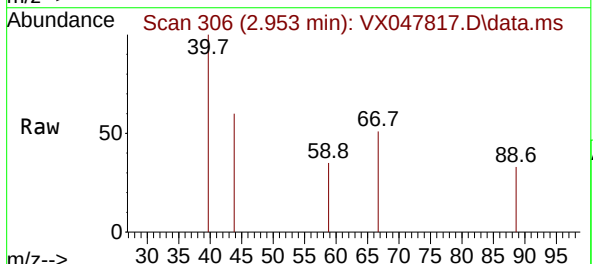
Instrument :
MSVOA_X
ClientSampleId :
DUP08-20250915

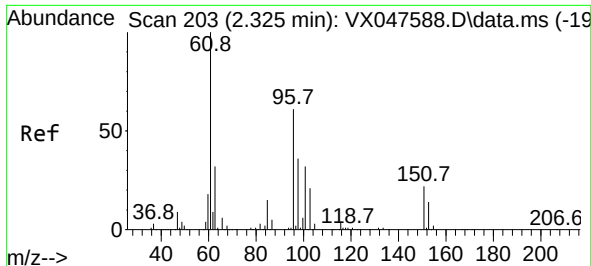
Tgt Ion:101 Resp: 7257
Ion Ratio Lower Upper
101 100
85 43.2 35.5 53.3
151 72.6 59.4 89.0



#11
Tert butyl alcohol
Concen: 1.422 ug/l
RT: 2.953 min Scan# 306
Delta R.T. 0.012 min
Lab File: VX047817.D
Acq: 25 Sep 2025 17:03

Tgt Ion: 59 Resp: 287
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



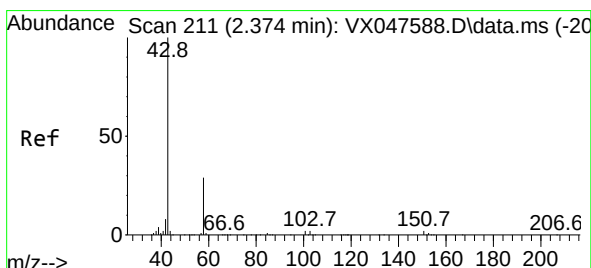
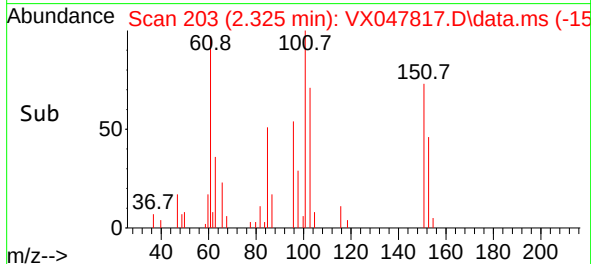
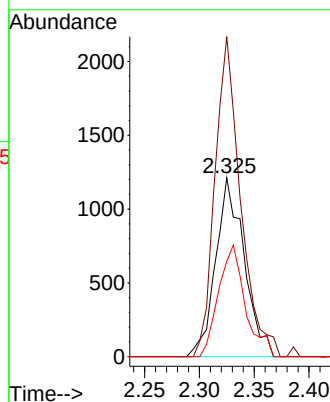
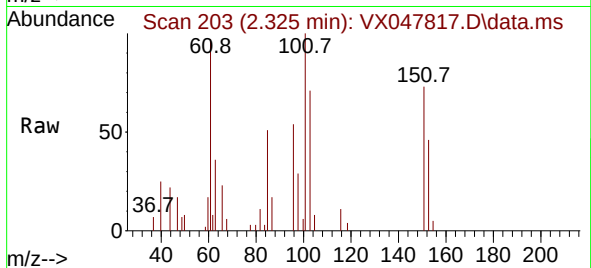


#12
 1,1-Dichloroethene
 Concen: 1.615 ug/l
 RT: 2.325 min Scan# 203
 Delta R.T. 0.000 min
 Lab File: VX047817.D
 Acq: 25 Sep 2025 17:03

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP08-20250915

Tgt Ion: 96 Resp: 2185

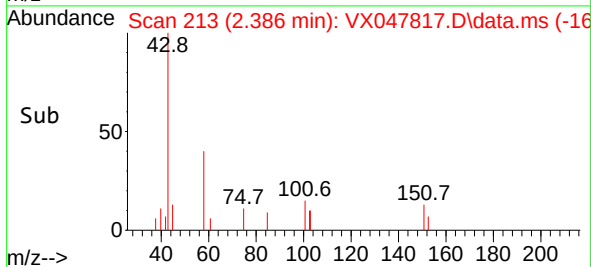
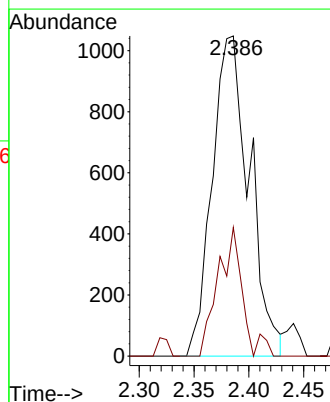
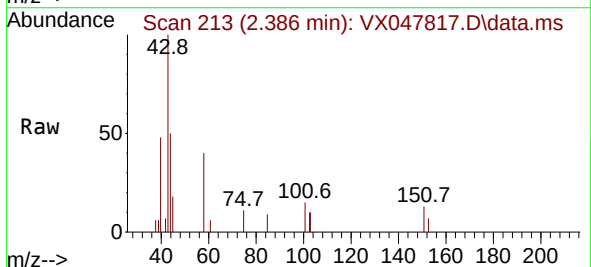
Ion	Ratio	Lower	Upper
96	100		
61	178.9	131.0	196.6
98	53.2	47.7	71.5

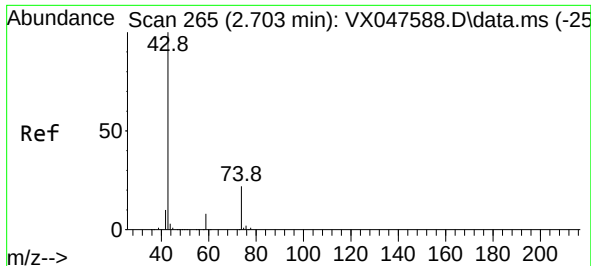


#16
 Acetone
 Concen: 3.154 ug/l
 RT: 2.386 min Scan# 213
 Delta R.T. 0.012 min
 Lab File: VX047817.D
 Acq: 25 Sep 2025 17:03

Tgt Ion: 43 Resp: 2486

Ion	Ratio	Lower	Upper
43	100		
58	40.2	23.4	35.0#

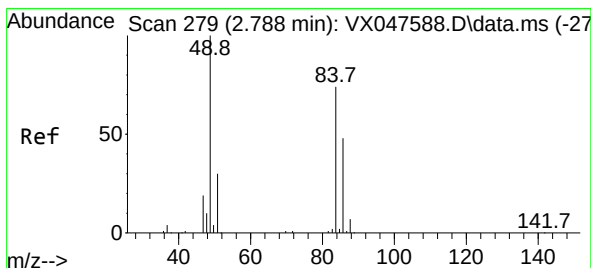
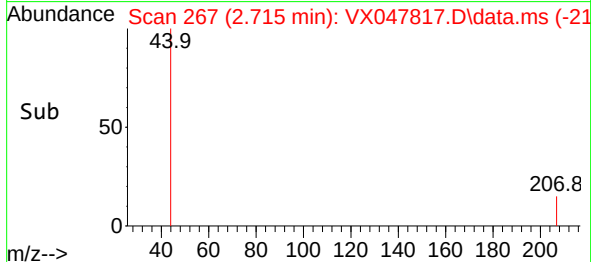
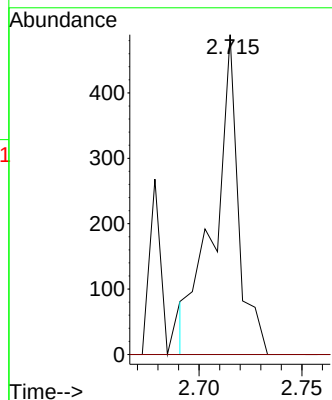
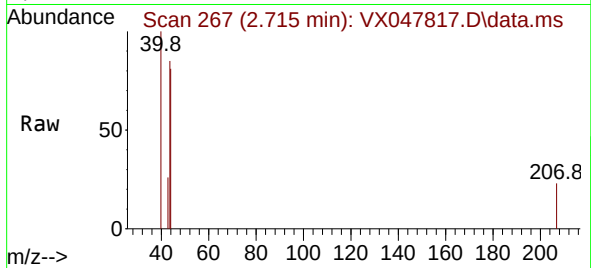




#18
Methyl Acetate
Concen: 0.227 ug/l
RT: 2.715 min Scan# 206
Delta R.T. 0.012 min
Lab File: VX047817.D
Acq: 25 Sep 2025 17:03

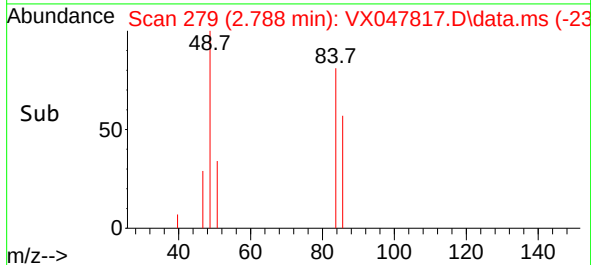
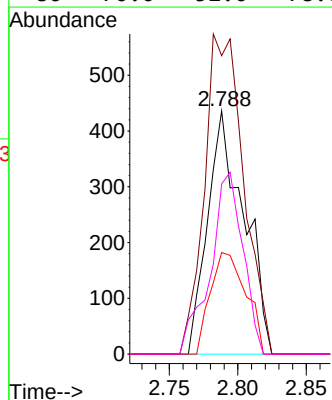
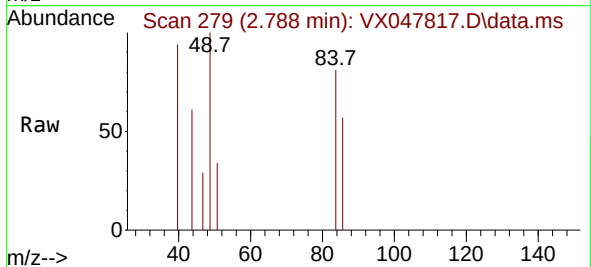
Instrument :
MSVOA_X
ClientSampleId :
DUP08-20250915

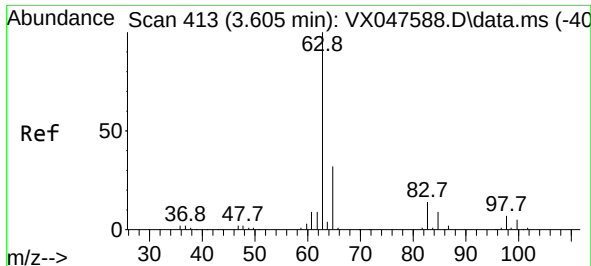
Tgt Ion: 43 Resp: 398
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.2#



#20
Methylene Chloride
Concen: 0.482 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX047817.D
Acq: 25 Sep 2025 17:03

Tgt Ion: 84 Resp: 804
Ion Ratio Lower Upper
84 100
49 122.7 108.6 162.8
51 41.7 32.6 48.8
86 70.0 52.0 78.0

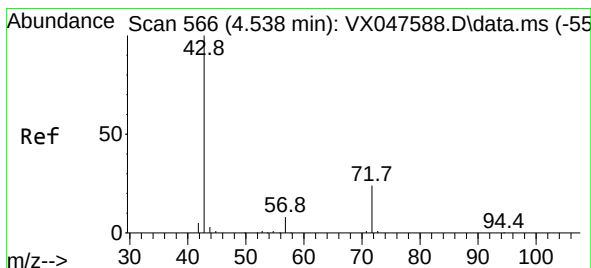
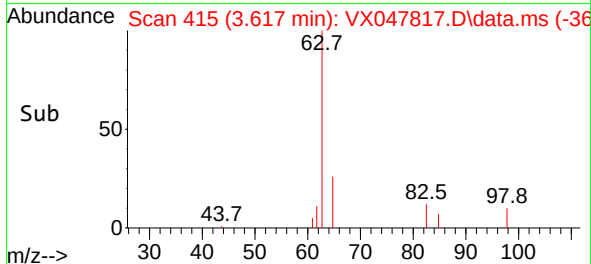
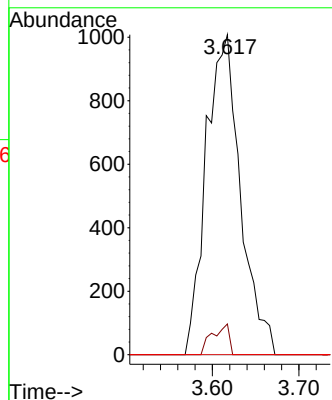
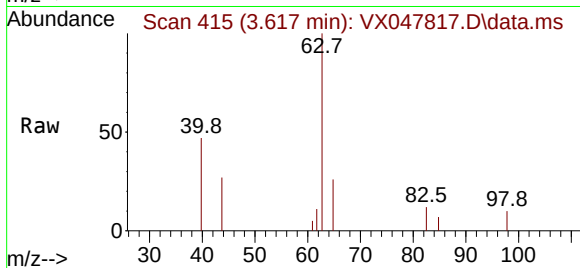




#24
 1,1-Dichloroethane
 Concen: 0.966 ug/l
 RT: 3.617 min Scan# 413
 Delta R.T. 0.012 min
 Lab File: VX047817.D
 Acq: 25 Sep 2025 17:03

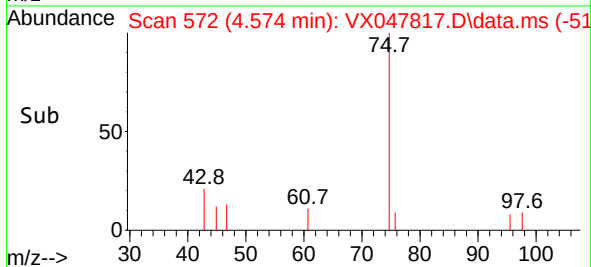
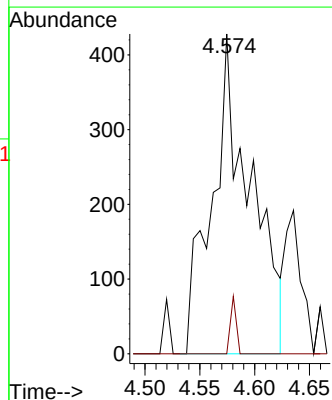
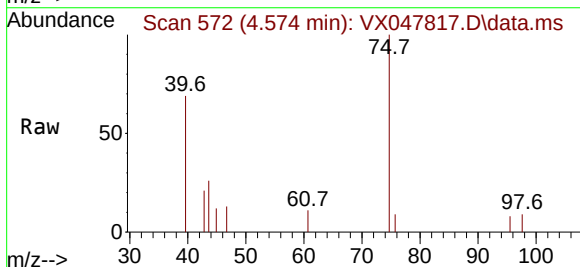
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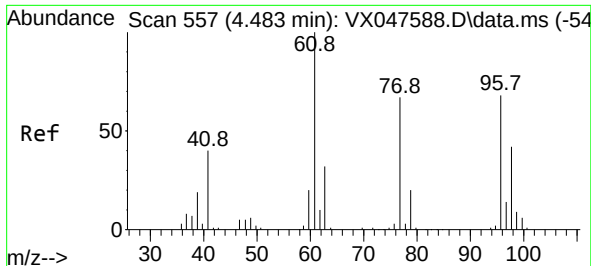
Tgt Ion: 63 Resp: 2779
 Ion Ratio Lower Upper
 63 100
 98 9.6 3.8 11.2
 100 0.0 2.3 6.9#



#25
 2-Butanone
 Concen: 1.068 ug/l
 RT: 4.574 min Scan# 572
 Delta R.T. 0.037 min
 Lab File: VX047817.D
 Acq: 25 Sep 2025 17:03

Tgt Ion: 43 Resp: 1050
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.1 30.1#





#27

cis-1,2-Dichloroethene

Concen: 3.347 ug/l

RT: 4.489 min Scan# 5

Delta R.T. 0.006 min

Lab File: VX047817.D

Acq: 25 Sep 2025 17:03

Instrument :

MSVOA_X

ClientSampleId :

DUP08-20250915

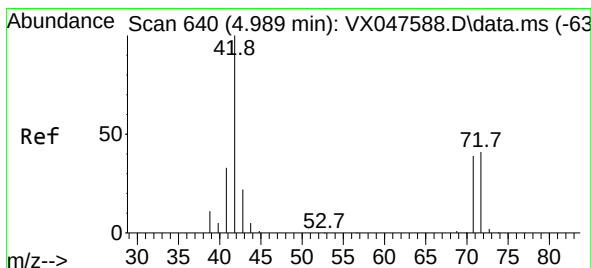
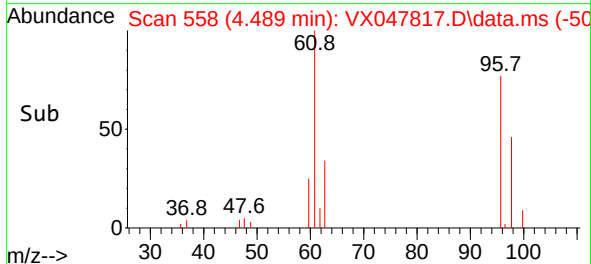
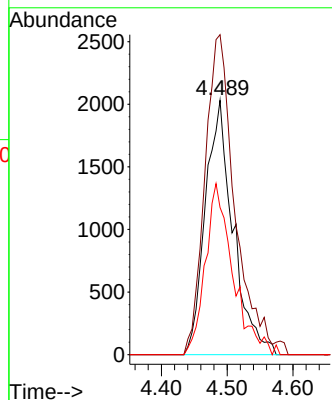
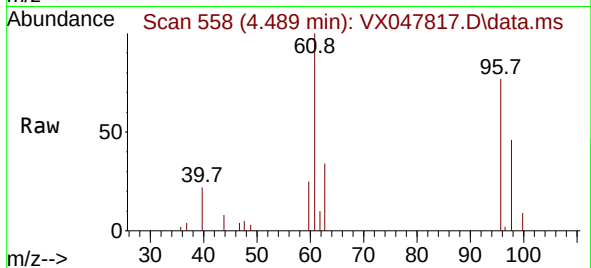
Tgt Ion: 96 Resp: 5971

Ion Ratio Lower Upper

96 100

61 137.2 0.0 303.2

98 66.9 0.0 127.8



#29

Tetrahydrofuran

Concen: 1.141 ug/l

RT: 5.007 min Scan# 643

Delta R.T. 0.018 min

Lab File: VX047817.D

Acq: 25 Sep 2025 17:03

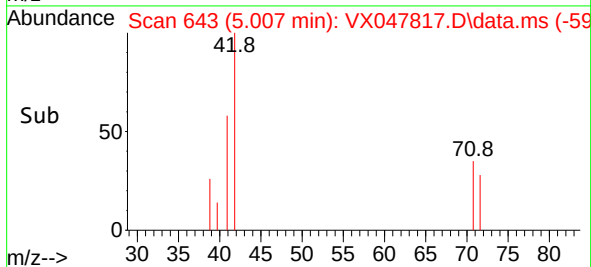
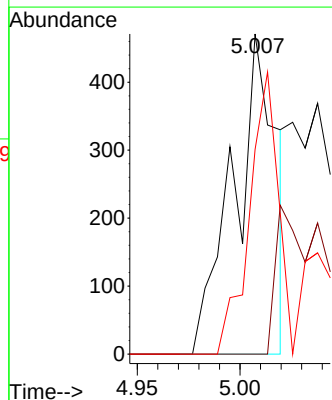
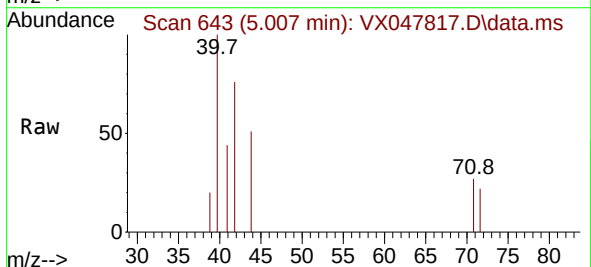
Tgt Ion: 42 Resp: 675

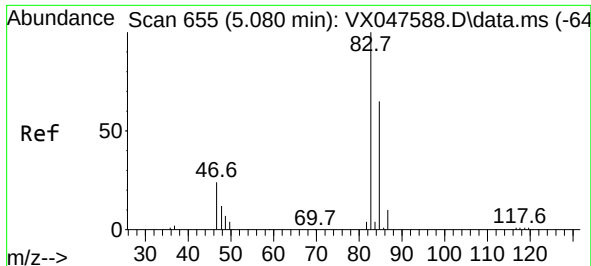
Ion Ratio Lower Upper

42 100

72 49.2 34.2 51.2

71 59.3 31.9 47.9#





#30

Chloroform

Concen: 0.512 ug/l

RT: 5.099 min Scan# 61

Delta R.T. 0.018 min

Lab File: VX047817.D

Acq: 25 Sep 2025 17:03

Instrument :

MSVOA_X

ClientSampleId :

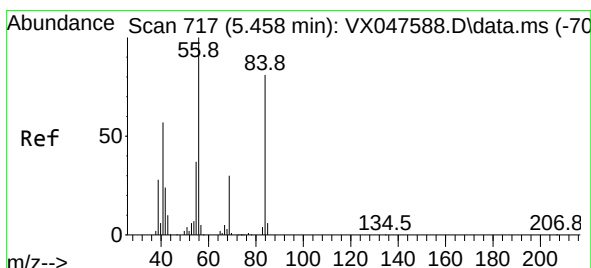
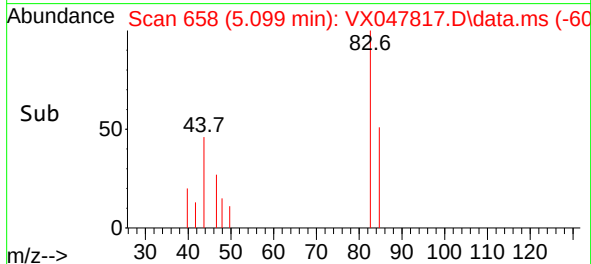
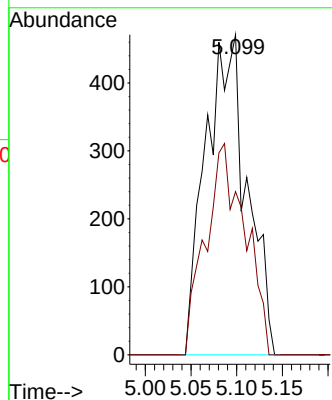
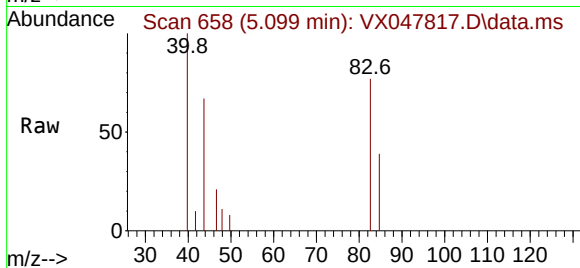
DUP08-20250915

Tgt Ion: 83 Resp: 1488

Ion Ratio Lower Upper

83 100

85 51.0 51.8 77.6#



#31

Cyclohexane

Concen: 0.712 ug/l

RT: 5.532 min Scan# 729

Delta R.T. 0.073 min

Lab File: VX047817.D

Acq: 25 Sep 2025 17:03

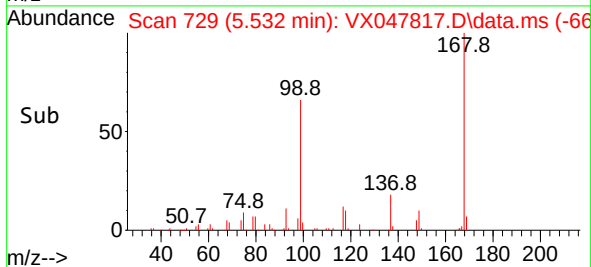
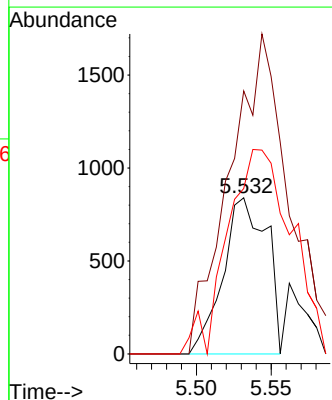
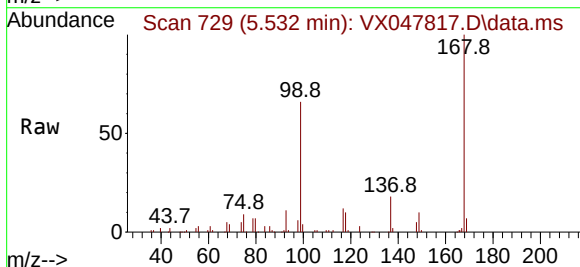
Tgt Ion: 56 Resp: 1705

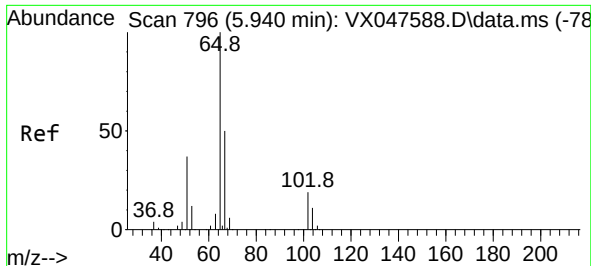
Ion Ratio Lower Upper

56 100

69 168.5 23.8 35.8#

84 106.0 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 54.678 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX047817.D

Acq: 25 Sep 2025 17:03

Instrument :

MSVOA_X

ClientSampleId :

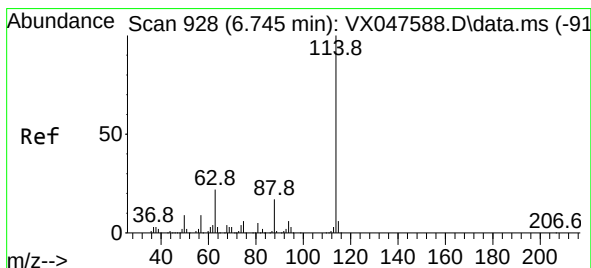
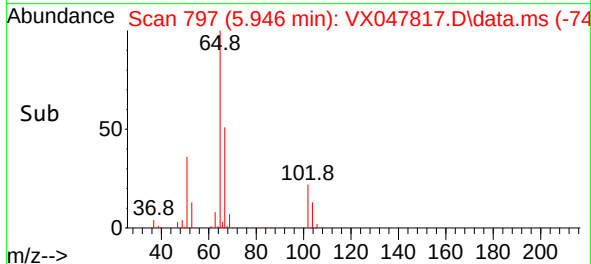
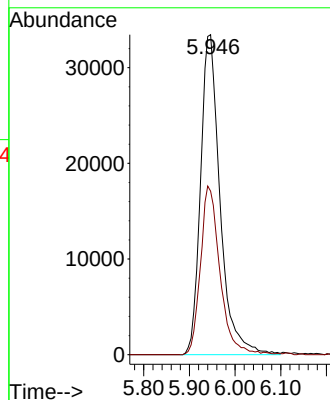
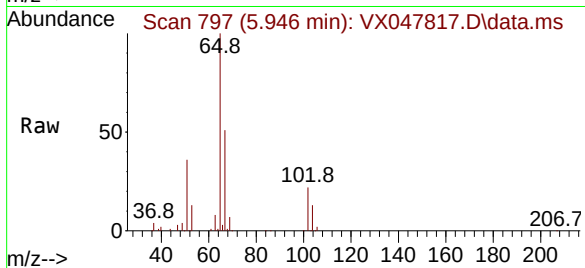
DUP08-20250915

Tgt Ion: 65 Resp: 99112

Ion Ratio Lower Upper

65 100

67 52.6 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX047817.D

Acq: 25 Sep 2025 17:03

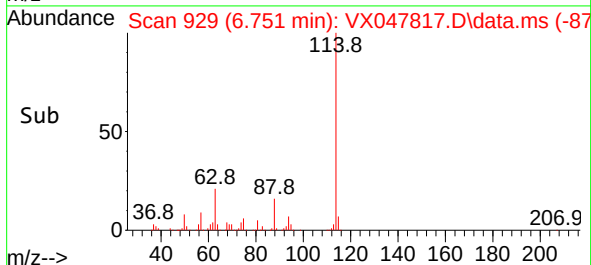
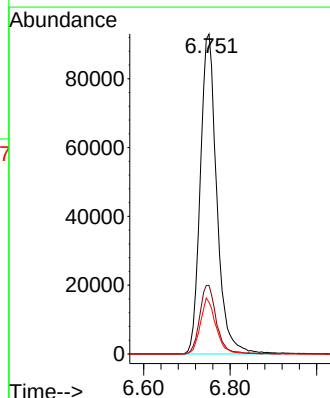
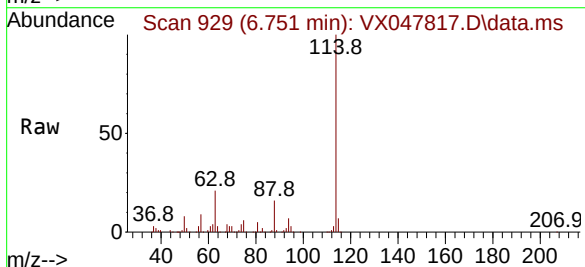
Tgt Ion: 114 Resp: 245918

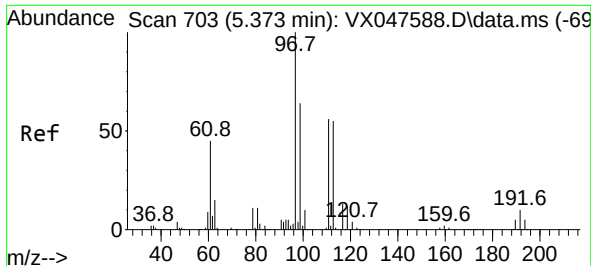
Ion Ratio Lower Upper

114 100

63 21.5 0.0 44.0

88 16.2 0.0 34.2

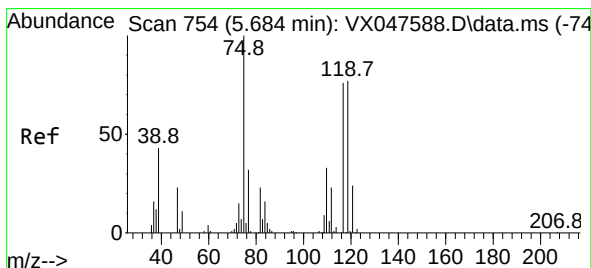
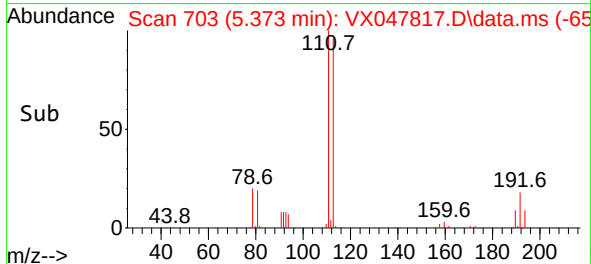
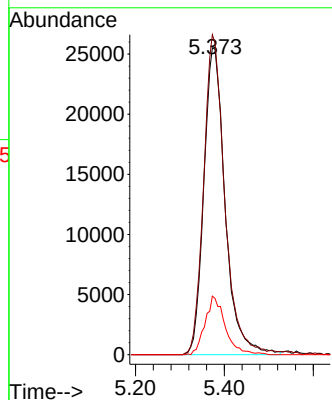
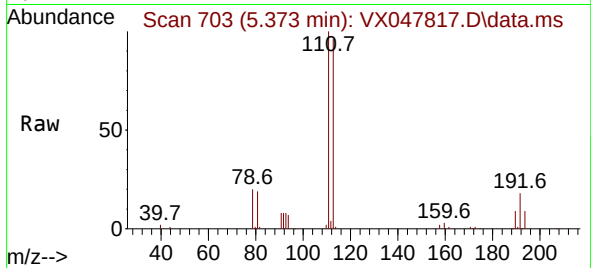




#35
Dibromofluoromethane
Concen: 51.694 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX047817.D
Acq: 25 Sep 2025 17:03

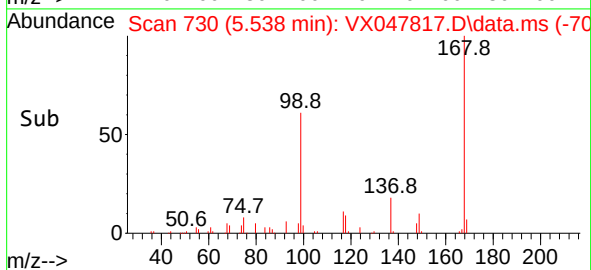
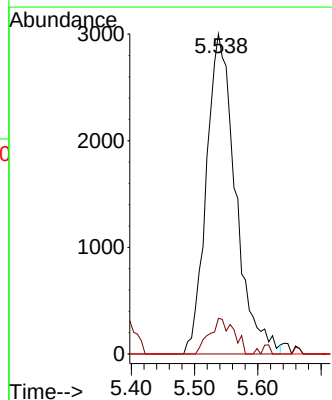
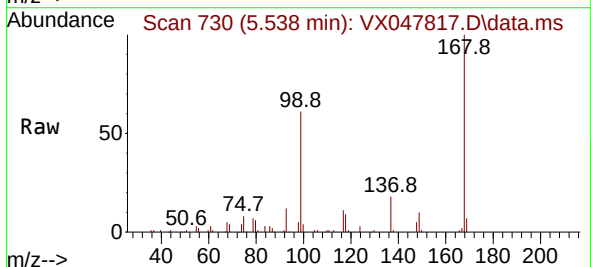
Instrument :
MSVOA_X
ClientSampleId :
DUP08-20250915

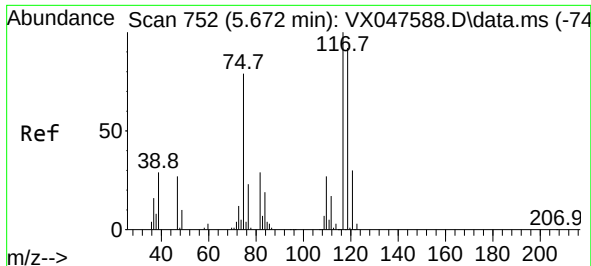
Tgt Ion:113 Resp: 85257
Ion Ratio Lower Upper
113 100
111 103.8 80.9 121.3
192 17.9 14.2 21.4



#36
1,1-Dichloropropene
Concen: 3.992 ug/l
RT: 5.538 min Scan# 730
Delta R.T. -0.146 min
Lab File: VX047817.D
Acq: 25 Sep 2025 17:03

Tgt Ion: 75 Resp: 9620
Ion Ratio Lower Upper
75 100
110 9.2 16.7 50.1#
77 0.0 24.3 36.5#

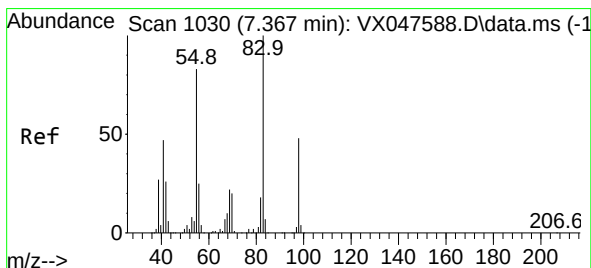
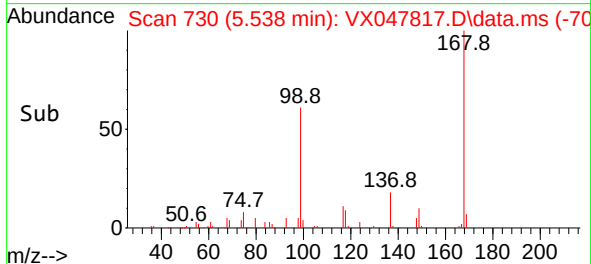
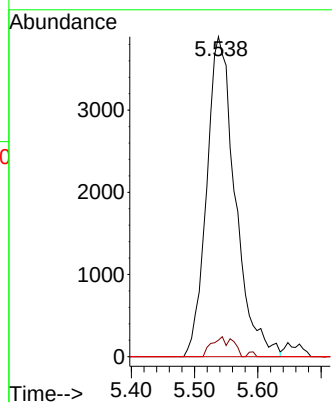
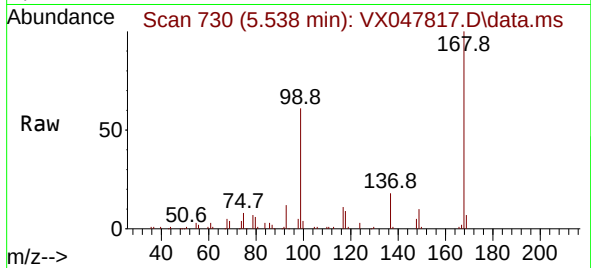




#38
Carbon Tetrachloride
Concen: 4.660 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX047817.D
Acq: 25 Sep 2025 17:03

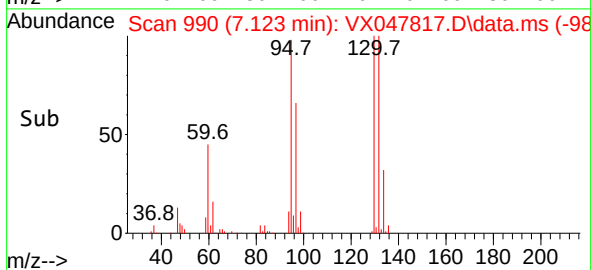
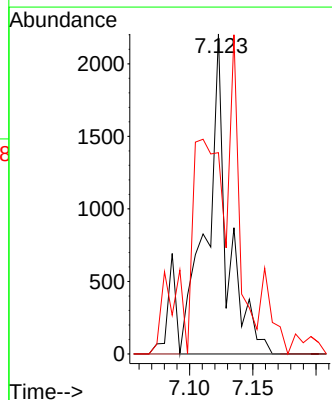
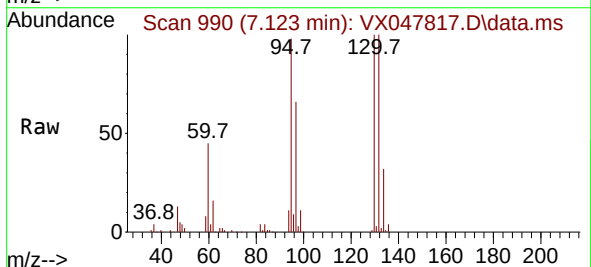
Instrument :
MSVOA_X
ClientSampleId :
DUP08-20250915

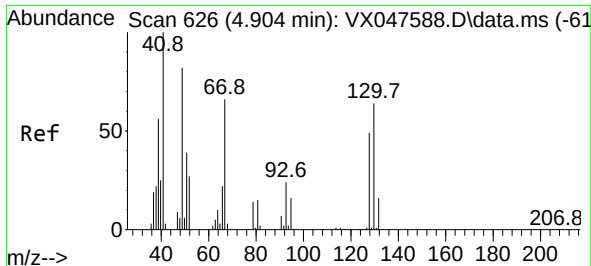
Tgt Ion:117 Resp: 12201
Ion Ratio Lower Upper
117 100
119 5.2 73.4 110.2#
121 0.0 23.8 35.6#



#39
Methylcyclohexane
Concen: 0.911 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.244 min
Lab File: VX047817.D
Acq: 25 Sep 2025 17:03

Tgt Ion: 83 Resp: 2491
Ion Ratio Lower Upper
83 100
55 0.0 66.4 99.6#
98 281.6 38.1 57.1#

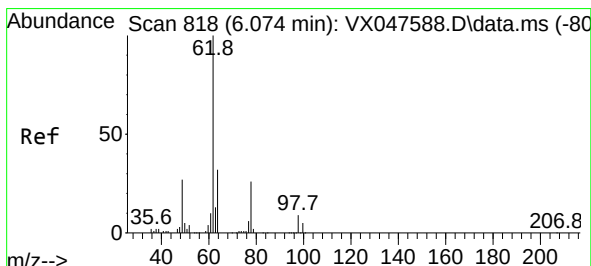
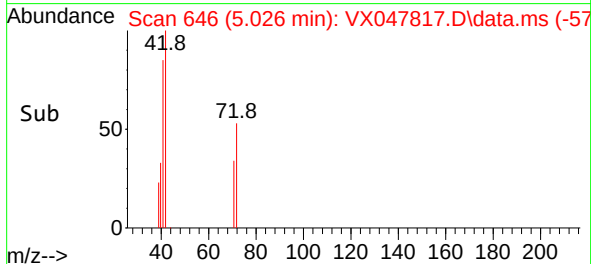
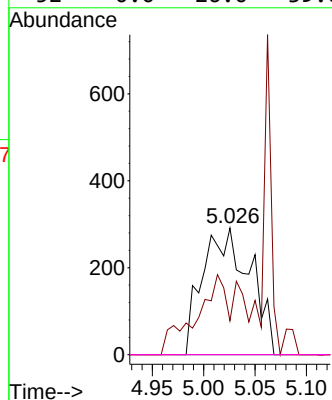
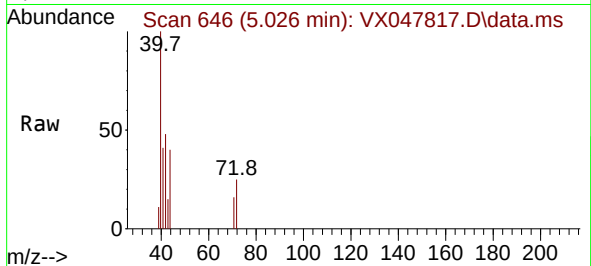




#41
Methacrylonitrile
Concen: 0.700 ug/l
RT: 5.026 min Scan# 646
Delta R.T. 0.122 min
Lab File: VX047817.D
Acq: 25 Sep 2025 17:03

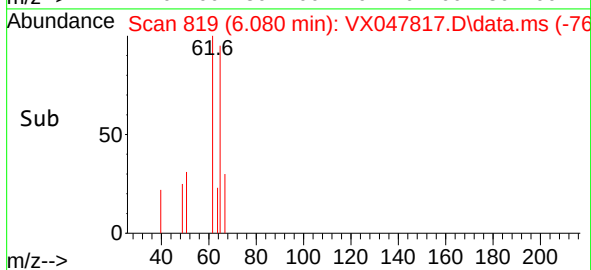
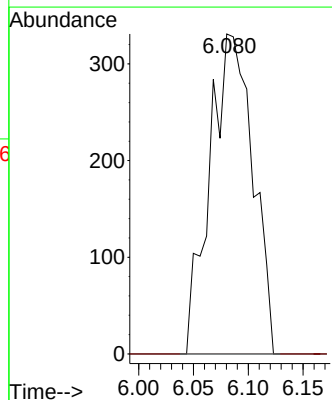
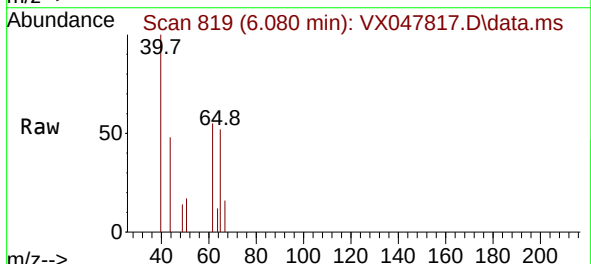
Instrument :
MSVOA_X
ClientSampleId :
DUP08-20250915

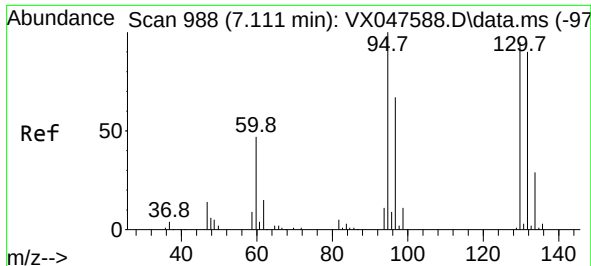
Tgt Ion:	41	Resp:	932
Ion	Ratio	Lower	Upper
41	100		
39	41.8	43.3	64.9#
67	0.0	58.6	87.8#
52	0.0	26.0	39.0#



#42
1,2-Dichloroethane
Concen: 0.325 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.006 min
Lab File: VX047817.D
Acq: 25 Sep 2025 17:03

Tgt Ion:	62	Resp:	906
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	17.0

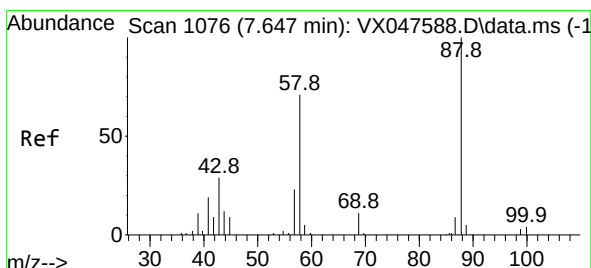
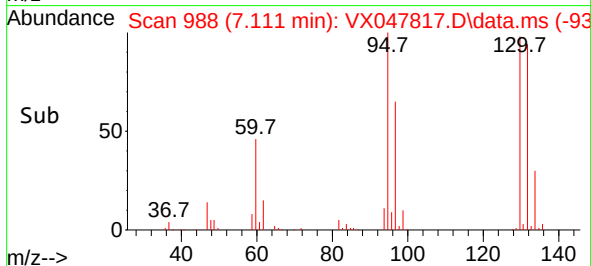
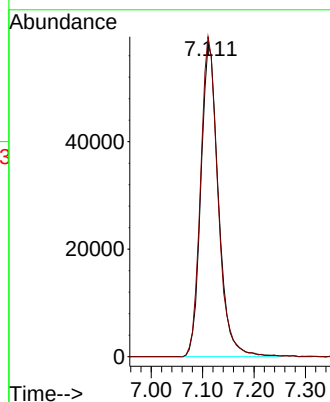
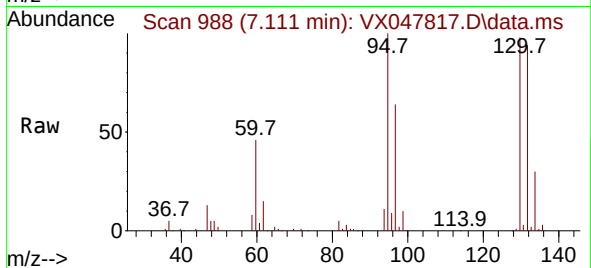




#44
Trichloroethene
Concen: 78.115 ug/l
RT: 7.111 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX047817.D
Acq: 25 Sep 2025 17:03

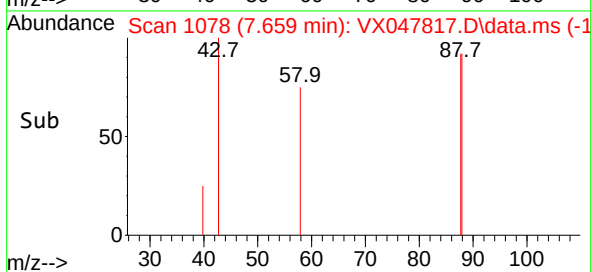
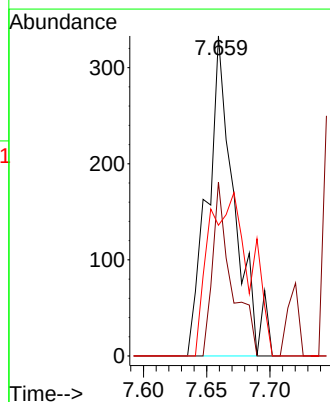
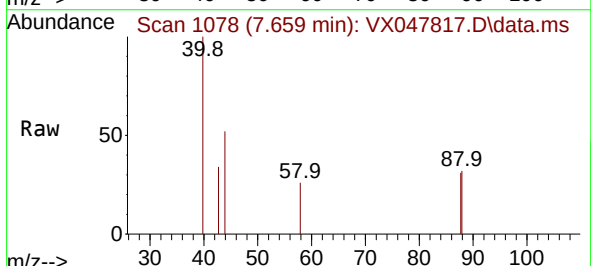
Instrument :
MSVOA_X
ClientSampleId :
DUP08-20250915

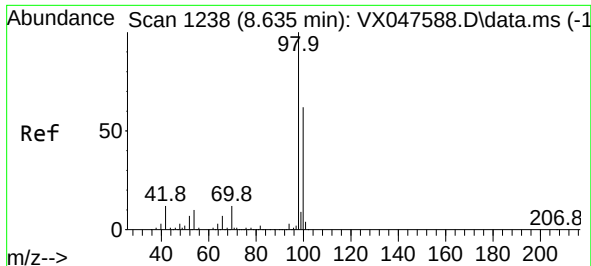
Tgt Ion:130 Resp: 138235
Ion Ratio Lower Upper
130 100
95 102.4 0.0 210.8



#49
1,4-Dioxane
Concen: 23.423 ug/l
RT: 7.659 min Scan# 1078
Delta R.T. 0.012 min
Lab File: VX047817.D
Acq: 25 Sep 2025 17:03

Tgt Ion: 88 Resp: 499
Ion Ratio Lower Upper
88 100
43 38.1 30.2 45.2
58 77.0 59.5 89.3

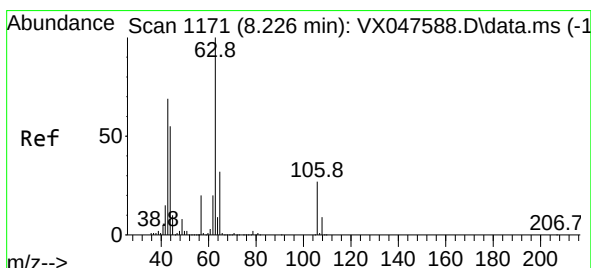
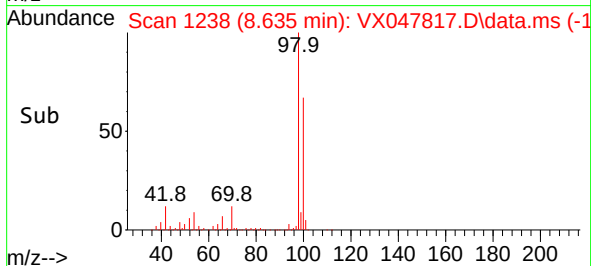
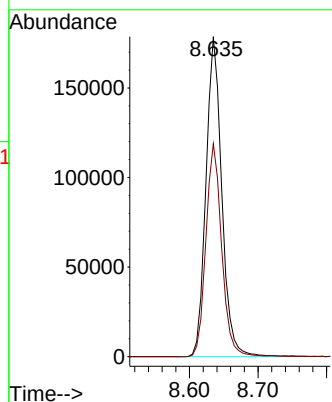
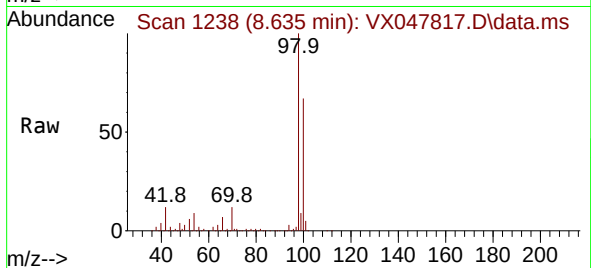




#50
Toluene-d8
Concen: 50.292 ug/l
RT: 8.635 min Scan# 1165
Delta R.T. 0.000 min
Lab File: VX047817.D
Acq: 25 Sep 2025 17:03

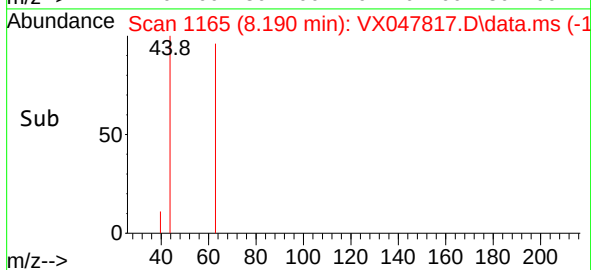
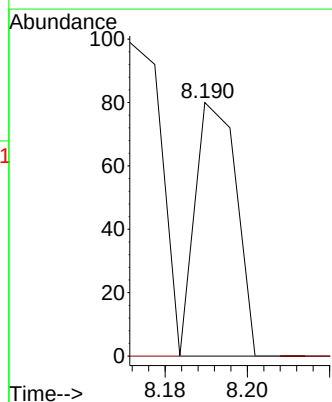
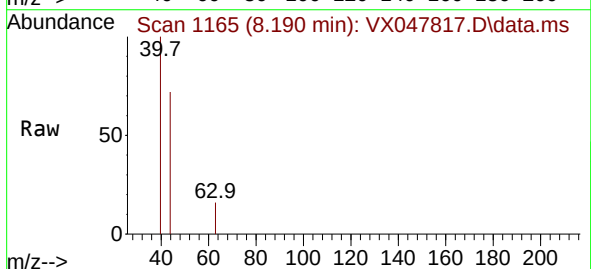
Instrument :
MSVOA_X
ClientSampleId :
DUP08-20250915

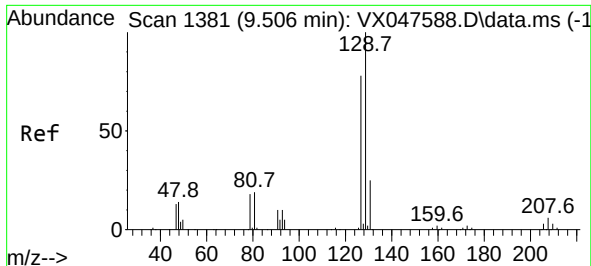
Tgt Ion: 98 Resp: 287005
Ion Ratio Lower Upper
98 100
100 66.6 53.0 79.4



#58
2-Chloroethyl Vinyl ether
Concen: 7.935 ug/l
RT: 8.190 min Scan# 1165
Delta R.T. -0.036 min
Lab File: VX047817.D
Acq: 25 Sep 2025 17:03

Tgt Ion: 63 Resp: 56
Ion Ratio Lower Upper
63 100
106 0.0 21.9 32.9#

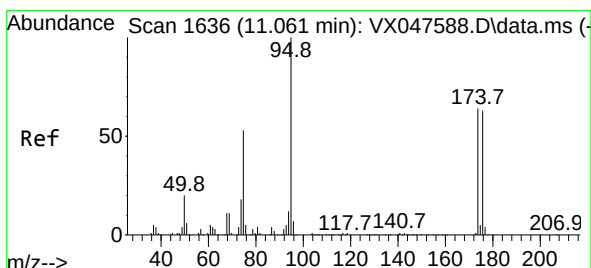
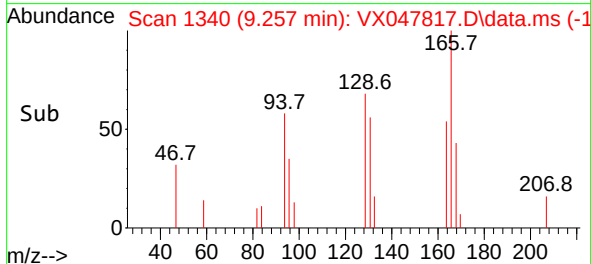
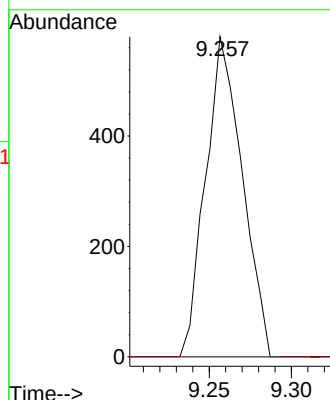
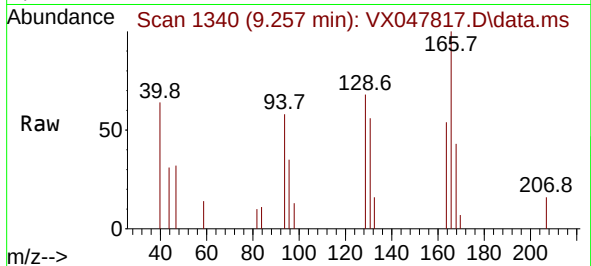




#60
Dibromochloromethane
Concen: 0.450 ug/l
RT: 9.257 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX047817.D
Acq: 25 Sep 2025 17:03

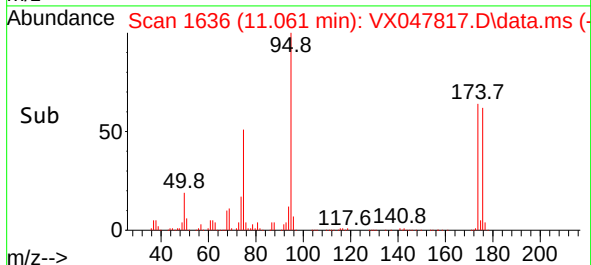
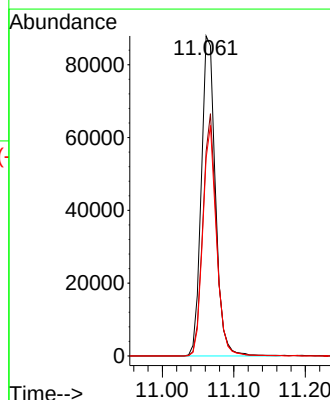
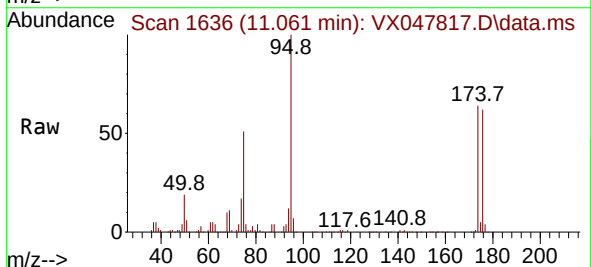
Instrument :
MSVOA_X
ClientSampleId :
DUP08-20250915

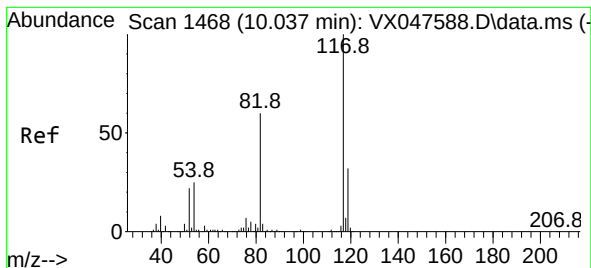
Tgt Ion:129 Resp: 901
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 55.577 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX047817.D
Acq: 25 Sep 2025 17:03

Tgt Ion: 95 Resp: 120370
Ion Ratio Lower Upper
95 100
174 73.3 0.0 141.6
176 69.8 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: VX047817.D

Acq: 25 Sep 2025 17:03

Instrument :

MSVOA_X

ClientSampleId :

DUP08-20250915

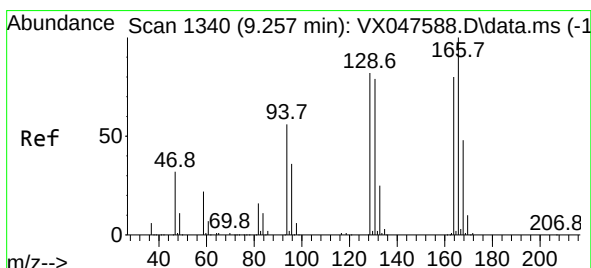
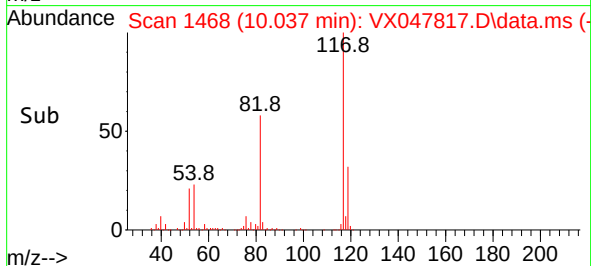
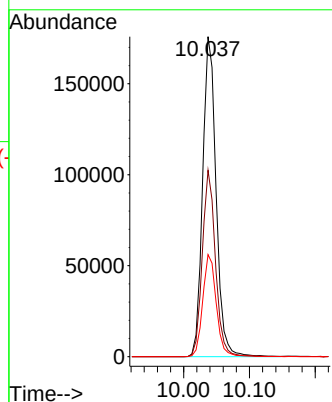
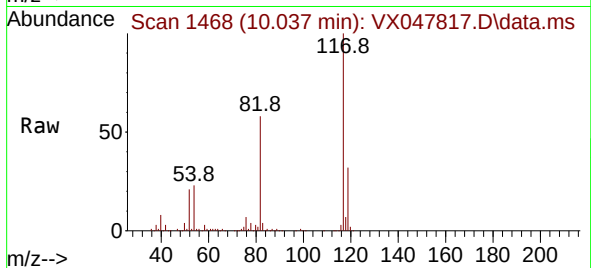
Tgt Ion:117 Resp: 250155

Ion Ratio Lower Upper

117 100

82 58.2 47.8 71.6

119 31.9 25.2 37.8



#64

Tetrachloroethene

Concen: 0.528 ug/l

RT: 9.263 min Scan# 1341

Delta R.T. 0.006 min

Lab File: VX047817.D

Acq: 25 Sep 2025 17:03

Tgt Ion:164 Resp: 861

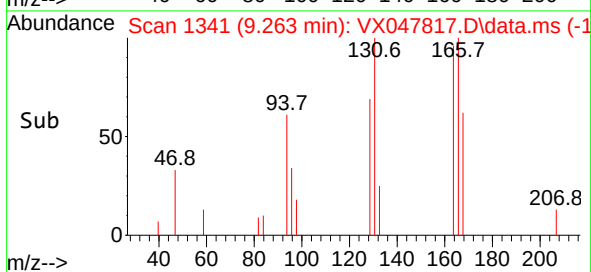
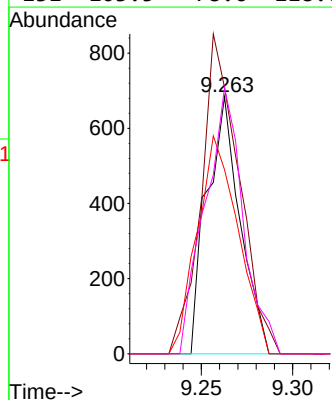
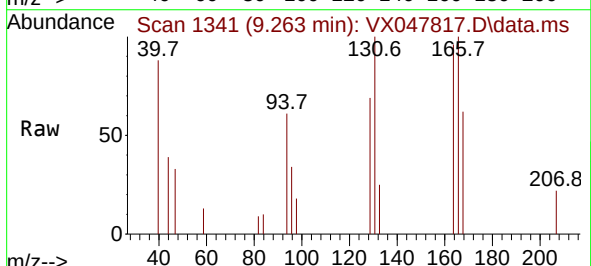
Ion Ratio Lower Upper

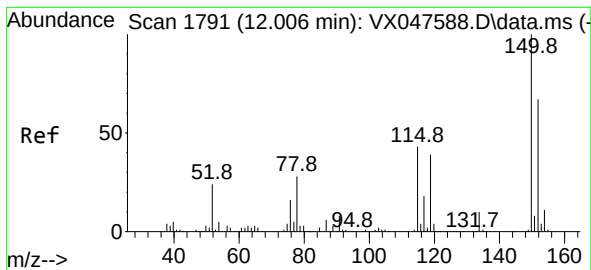
164 100

166 103.7 100.2 150.2

129 71.6 81.8 122.6#

131 103.5 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: VX047817.D

Acq: 25 Sep 2025 17:03

Instrument :

MSVOA_X

ClientSampleId :

DUP08-20250915

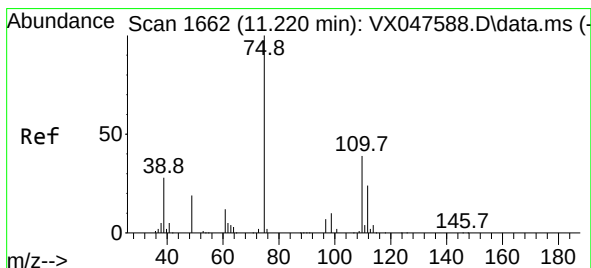
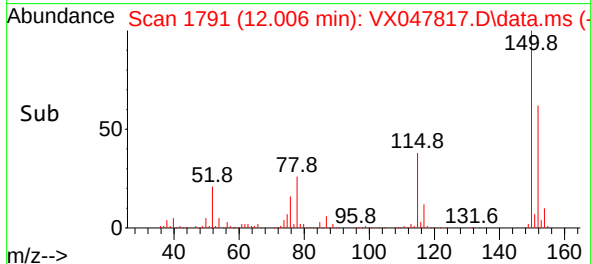
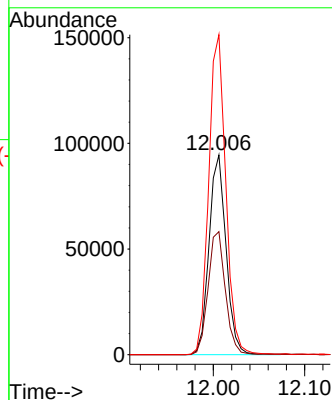
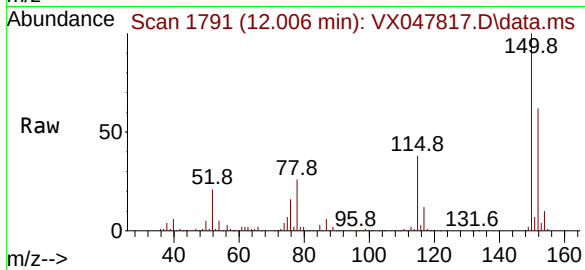
Tgt Ion:152 Resp: 122323

Ion Ratio Lower Upper

152 100

115 62.7 44.9 134.5

150 160.1 0.0 352.0



#76

1,2,3-Trichloropropane

Concen: 24.885 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.158 min

Lab File: VX047817.D

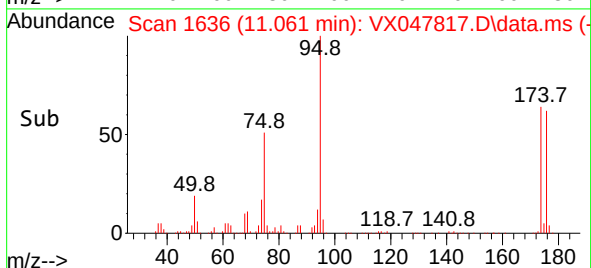
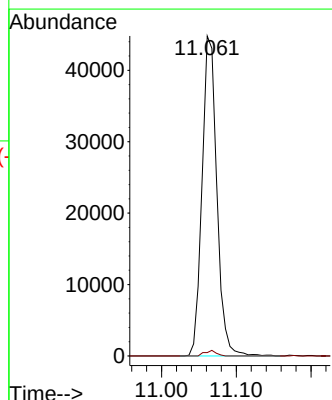
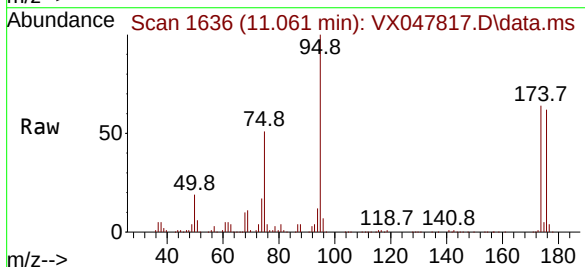
Acq: 25 Sep 2025 17:03

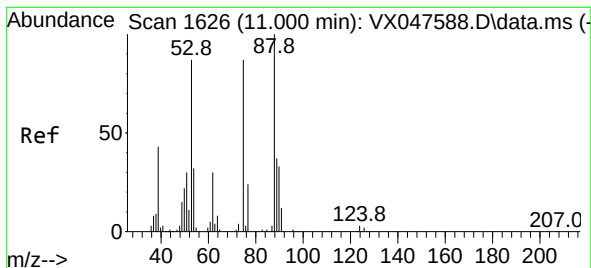
Tgt Ion: 75 Resp: 61631

Ion Ratio Lower Upper

75 100

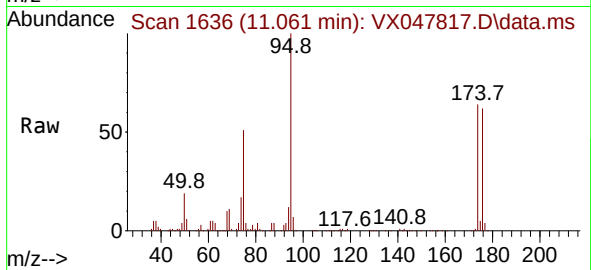
77 1.3 18.8 56.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.460 ug/l
 RT: 11.061 min Scan# 11
 Delta R.T. 0.061 min
 Lab File: VX047817.D
 Acq: 25 Sep 2025 17:03

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP08-20250915



Tgt Ion: 75 Resp: 61631
 Ion Ratio Lower Upper
 75 100
 53 0.0 83.4 125.2#
 89 0.0 36.3 54.5#

