

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
 Data File : VX047738.D
 Acq On : 23 Sep 2025 16:55
 Operator : JC/MD
 Sample : Q3097-20
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP06-20250912

Quant Time: Sep 24 01:36:15 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)

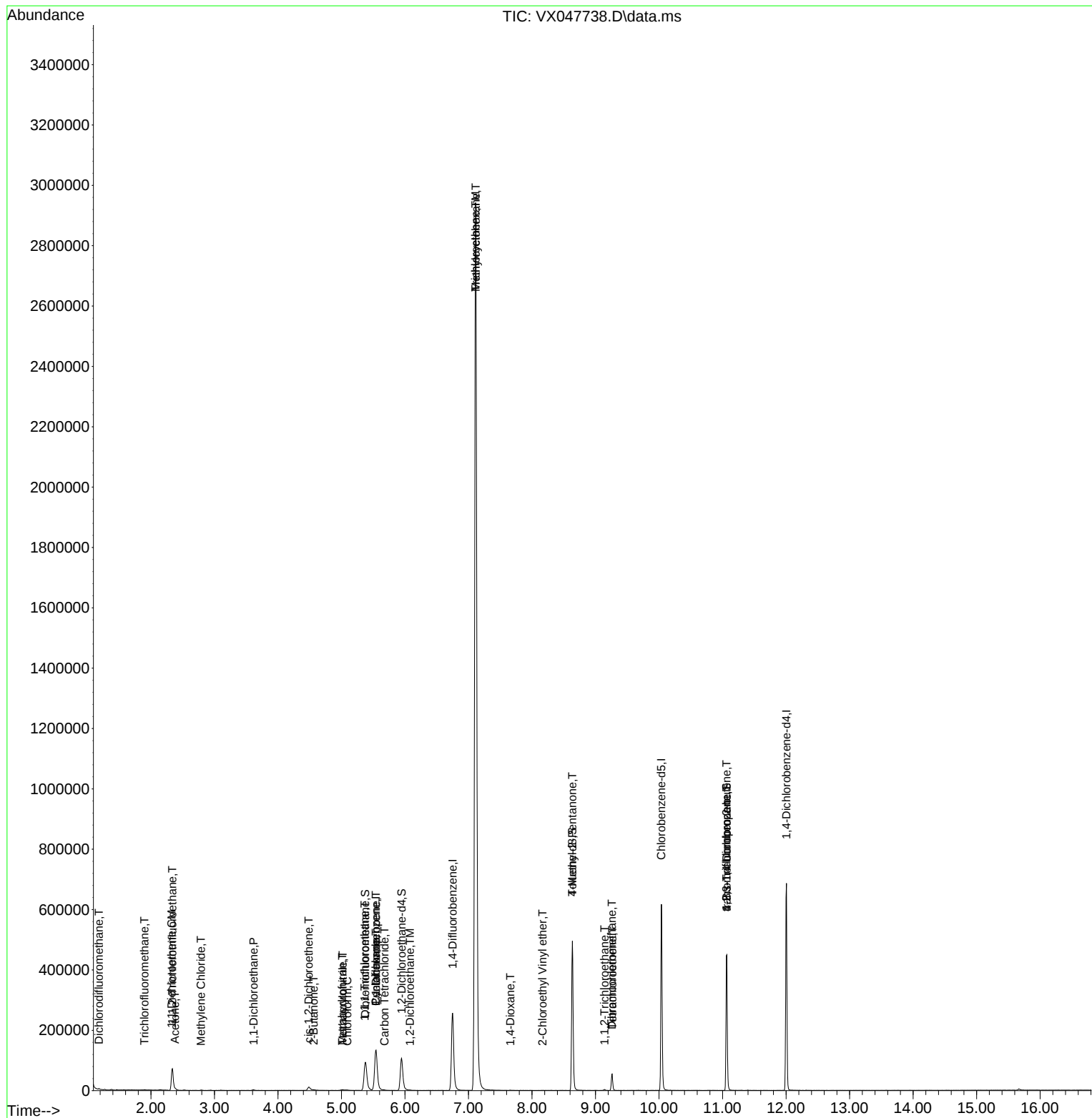
Internal Standards						
1) Pentafluorobenzene	5.544	168	134457	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	282290	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	281029	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141279	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	114450	53.476	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 106.960%	
35) Dibromofluoromethane	5.373	113	93741	49.515	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 99.020%	
50) Toluene-d8	8.635	98	307302	46.910	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 93.820%	
62) 4-Bromofluorobenzene	11.061	95	134047	53.917	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 107.840%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	461	0.331	ug/l #	43
7) Trichlorofluoromethane	1.898	101	594	0.223	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.337	101	24750	15.915	ug/l	99
12) 1,1-Dichloroethene	2.325	96	10897	6.821	ug/l	95
16) Acetone	2.380	43	2243	2.410	ug/l	98
20) Methylene Chloride	2.788	84	519	0.263	ug/l #	87
24) 1,1-Dichloroethane	3.617	63	3114	0.917	ug/l #	86
25) 2-Butanone	4.562	43	2232	1.923	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	8042	3.818	ug/l	86
29) Tetrahydrofuran	5.013	42	1628	2.331	ug/l #	67
30) Chloroform	5.093	83	1637	0.477	ug/l	88
31) Cyclohexane	5.544	56	2952	1.044	ug/l #	1
32) 1,1,1-Trichloroethane	5.367	97	796	0.273	ug/l #	34
36) 1,1-Dichloropropene	5.544	75	11107	4.015	ug/l #	51
38) Carbon Tetrachloride	5.678	117	955	0.318	ug/l #	55
39) Methylcyclohexane	7.117	83	14221	4.529	ug/l #	1
41) Methacrylonitrile	5.019	41	1679	1.098	ug/l #	36
42) 1,2-Dichloroethane	6.080	62	691	0.216	ug/l #	76
44) Trichloroethene	7.110	130	1228197	604.618	ug/l	95
49) 1,4-Dioxane	7.659	88	746	30.506	ug/l	91
51) 4-Methyl-2-Pentanone	8.635	43	1473	0.547	ug/l #	1
55) 1,1,2-Trichloroethane	9.141	97	1061	0.532	ug/l #	73
58) 2-Chloroethyl Vinyl ether	8.165	63	87	7.951	ug/l #	47
60) Dibromochloromethane	9.256	129	10706	4.655	ug/l #	11
64) Tetrachloroethene	9.262	164	10589	5.780	ug/l	92
76) 1,2,3-Trichloropropane	11.061	75	68434	23.924	ug/l #	40
81) trans-1,4-Dichloro-2-b...	11.061	75	68434	61.010	ug/l #	8

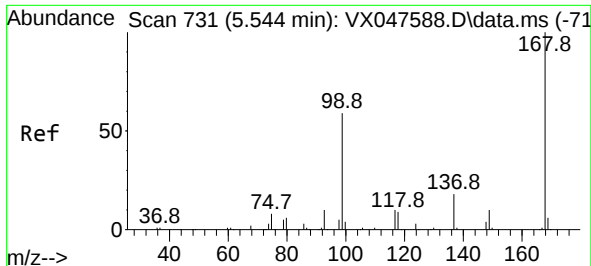
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047738.D
Acq On : 23 Sep 2025 16:55
Operator : JC/MD
Sample : Q3097-20
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

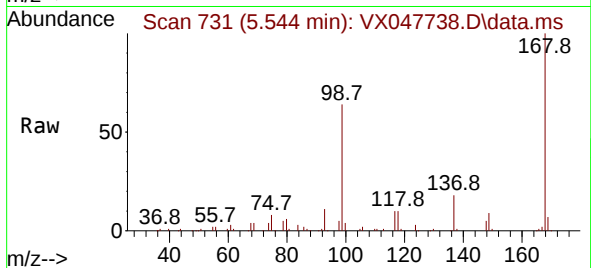
Quant Time: Sep 24 01:36:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



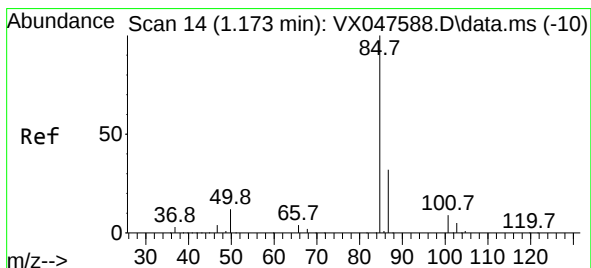
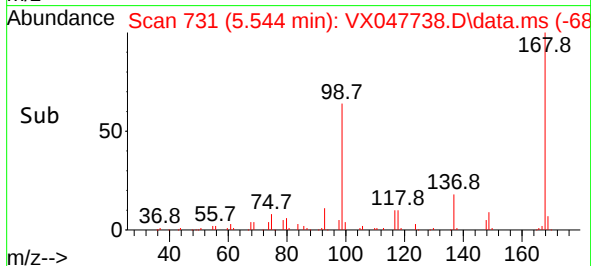
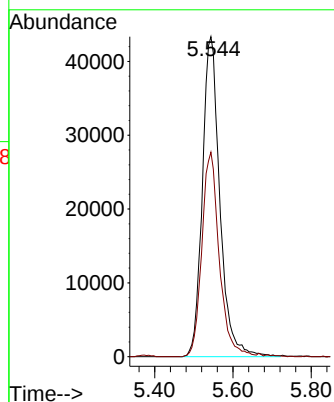


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

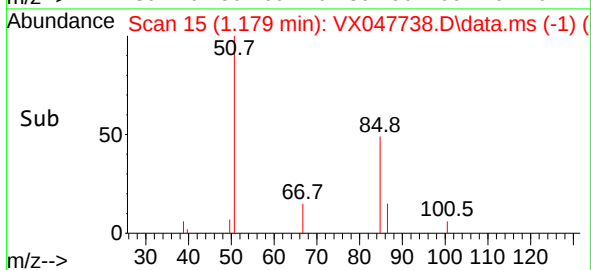
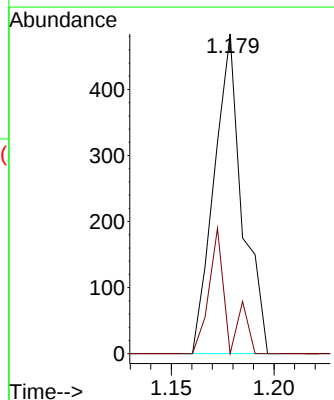
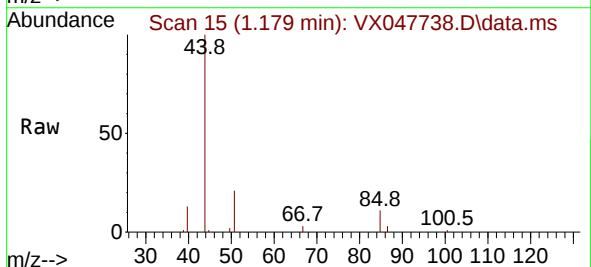


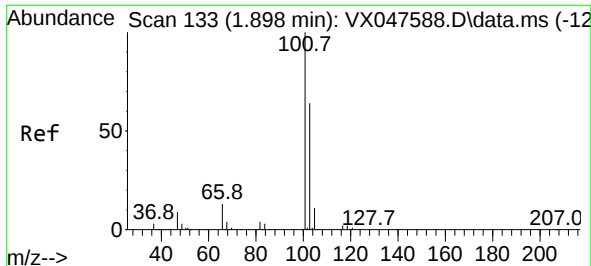
Tgt Ion:168 Resp: 134457
Ion Ratio Lower Upper
168 100
99 63.9 48.8 73.2



#2
Dichlorodifluoromethane
Concen: 0.331 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 85 Resp: 461
Ion Ratio Lower Upper
85 100
87 0.0 15.8 47.3#

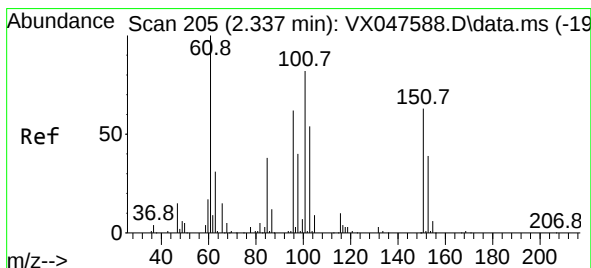
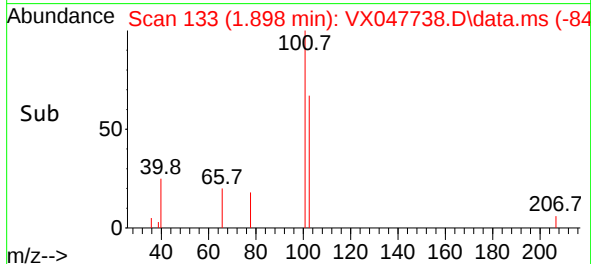
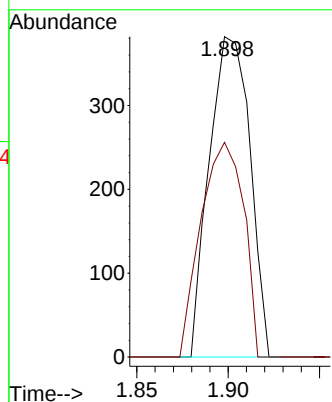
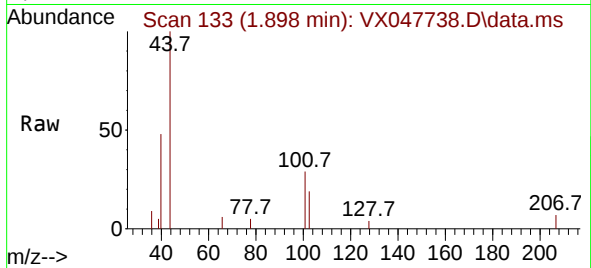




#7
 Trichlorofluoromethane
 Concen: 0.223 ug/l
 RT: 1.898 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX047738.D
 Acq: 23 Sep 2025 16:55

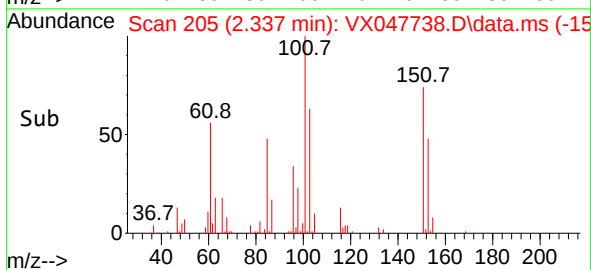
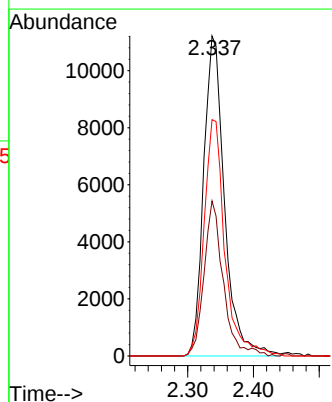
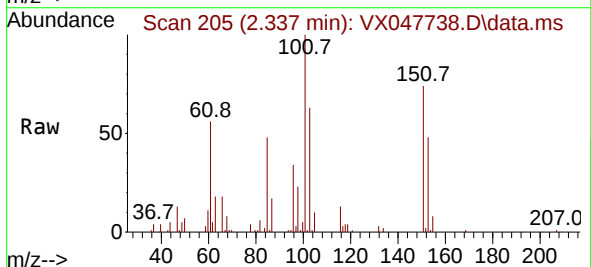
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP06-20250912

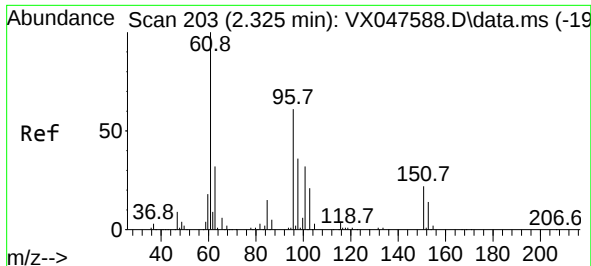
Tgt Ion:101 Resp: 594
 Ion Ratio Lower Upper
 101 100
 103 67.0 51.4 77.2



#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 15.915 ug/l
 RT: 2.337 min Scan# 205
 Delta R.T. -0.000 min
 Lab File: VX047738.D
 Acq: 23 Sep 2025 16:55

Tgt Ion:101 Resp: 24750
 Ion Ratio Lower Upper
 101 100
 85 44.7 35.5 53.3
 151 73.5 59.4 89.0

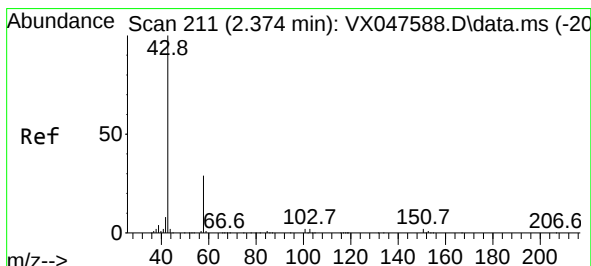
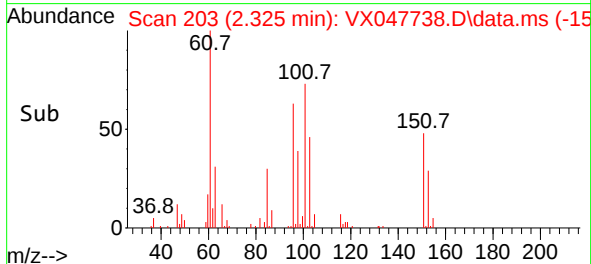
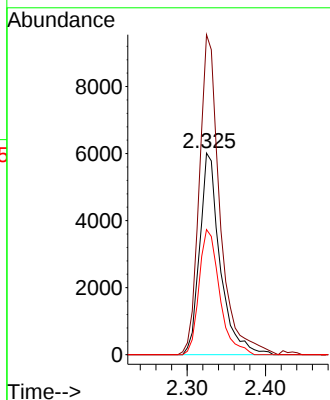
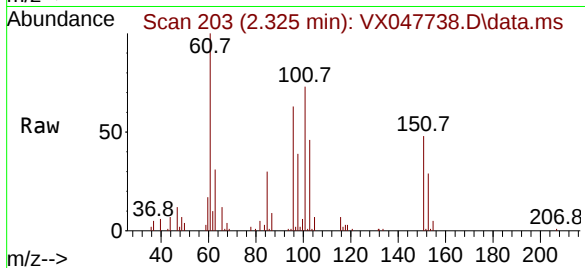




#12
1,1-Dichloroethene
Concen: 6.821 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

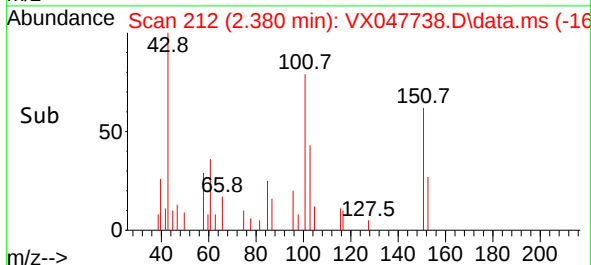
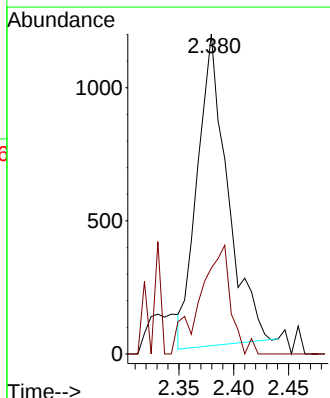
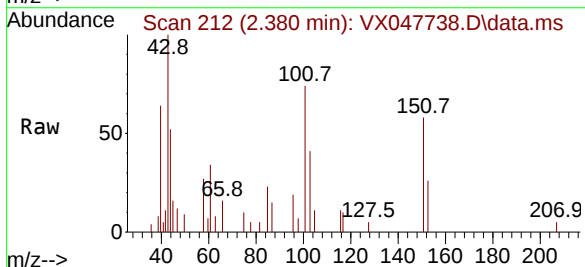
Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

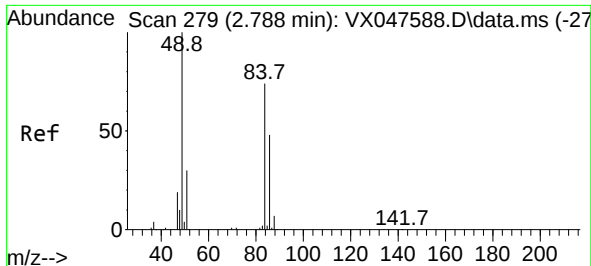
Tgt Ion: 96 Resp: 10897
Ion Ratio Lower Upper
96 100
61 158.7 131.0 196.6
98 65.2 47.7 71.5



#16
Acetone
Concen: 2.410 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 43 Resp: 2243
Ion Ratio Lower Upper
43 100
58 28.2 23.4 35.0



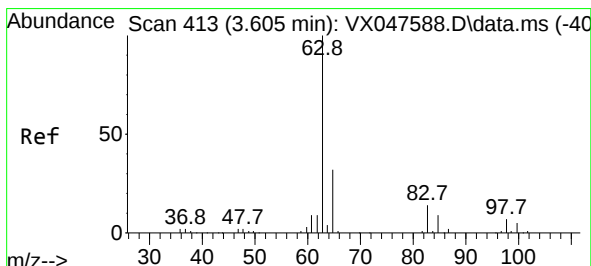
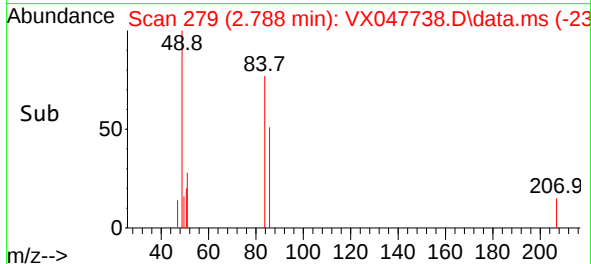
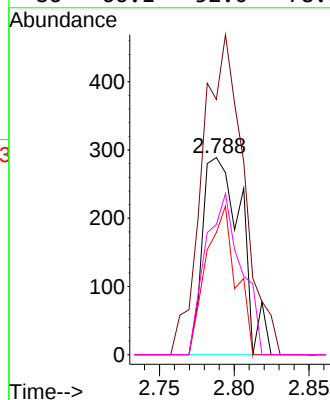
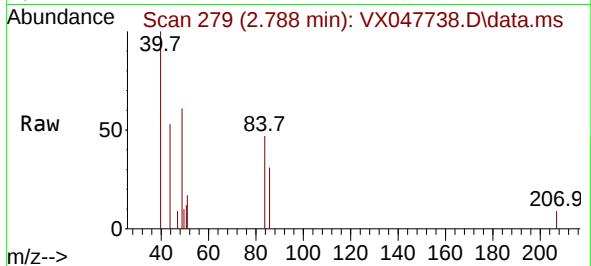


#20
Methylene Chloride
Concen: 0.263 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Tgt Ion: 84 Resp: 519

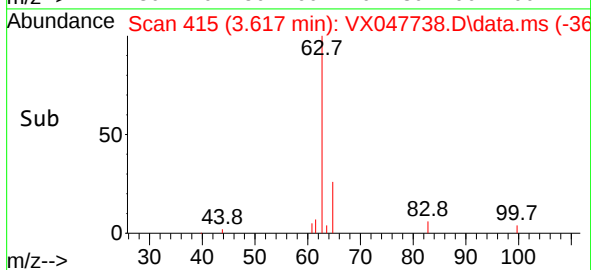
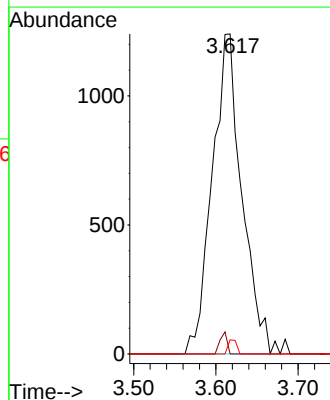
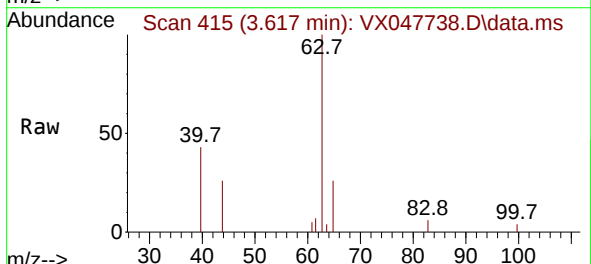
Ion	Ratio	Lower	Upper
84	100		
49	150.2	108.6	162.8
51	61.9	32.6	48.8#
86	66.1	52.0	78.0

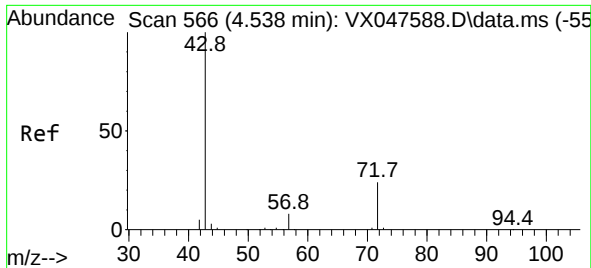


#24
1,1-Dichloroethane
Concen: 0.917 ug/l
RT: 3.617 min Scan# 415
Delta R.T. 0.012 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 63 Resp: 3114

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.8	11.2#
100	4.2	2.3	6.9

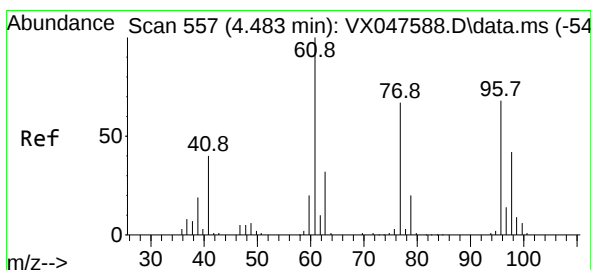
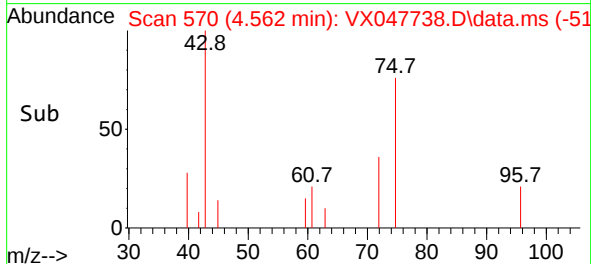
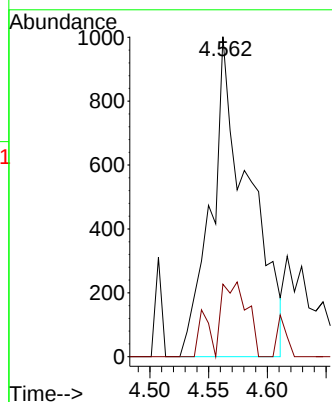
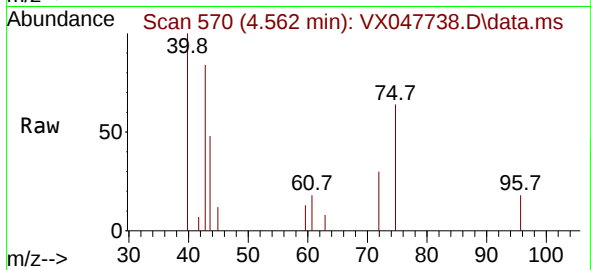




#25
2-Butanone
Concen: 1.923 ug/l
RT: 4.562 min Scan# 51
Delta R.T. 0.024 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

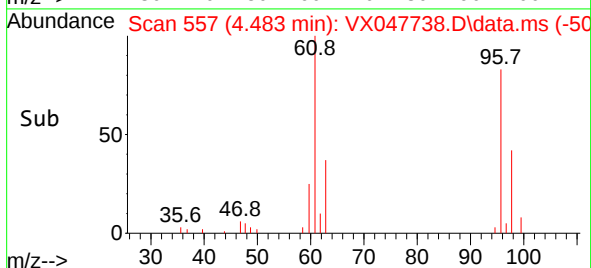
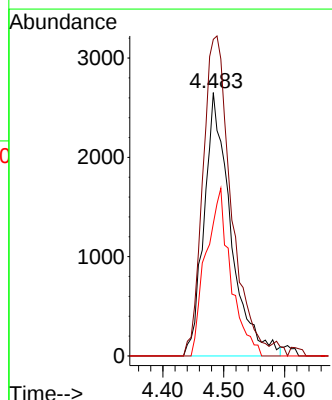
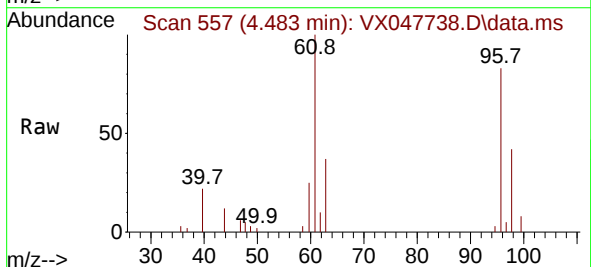
Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

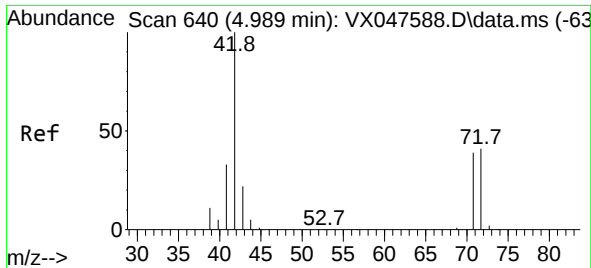
Tgt Ion: 43 Resp: 2232
Ion Ratio Lower Upper
43 100
72 27.8 20.1 30.1



#27
cis-1,2-Dichloroethene
Concen: 3.818 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 96 Resp: 8042
Ion Ratio Lower Upper
96 100
61 129.1 0.0 303.2
98 59.6 0.0 127.8





#29

Tetrahydrofuran

Concen: 2.331 ug/l

RT: 5.013 min Scan# 64

Delta R.T. 0.024 min

Lab File: VX047738.D

Acq: 23 Sep 2025 16:55

Instrument :

MSVOA_X

ClientSampleId :

DUP06-20250912

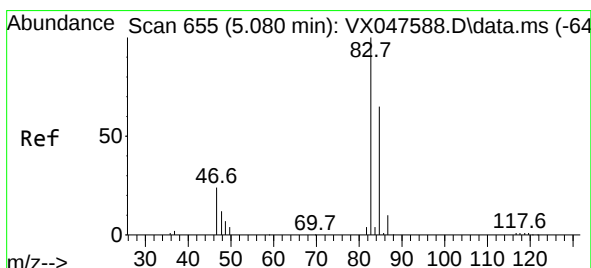
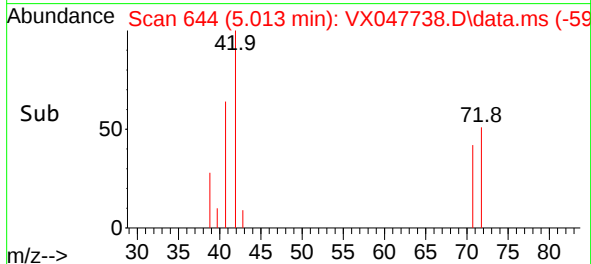
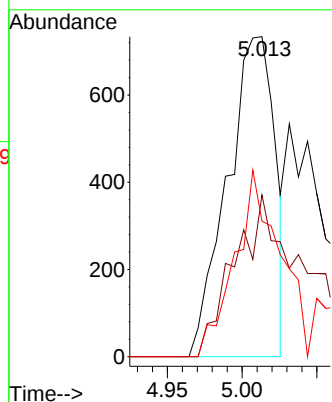
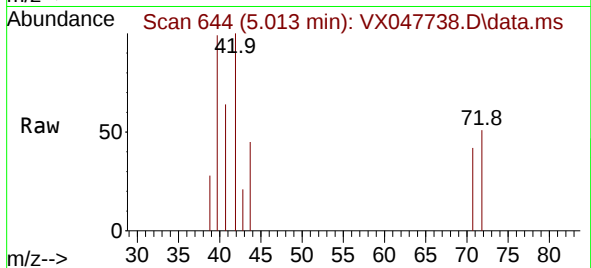
Tgt Ion: 42 Resp: 1628

Ion Ratio Lower Upper

42 100

72 69.4 34.2 51.2#

71 54.7 31.9 47.9#



#30

Chloroform

Concen: 0.477 ug/l

RT: 5.093 min Scan# 657

Delta R.T. 0.012 min

Lab File: VX047738.D

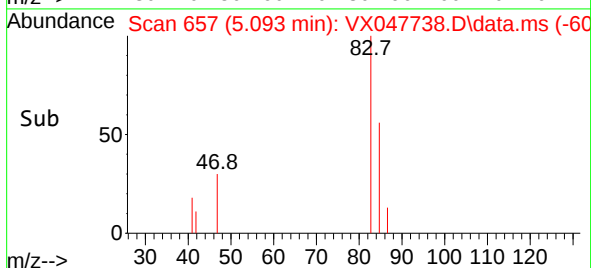
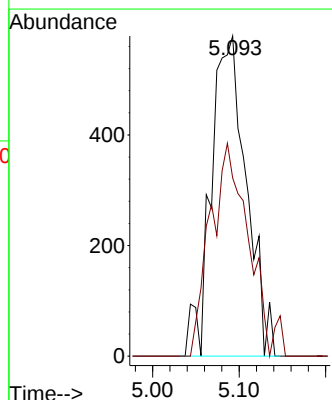
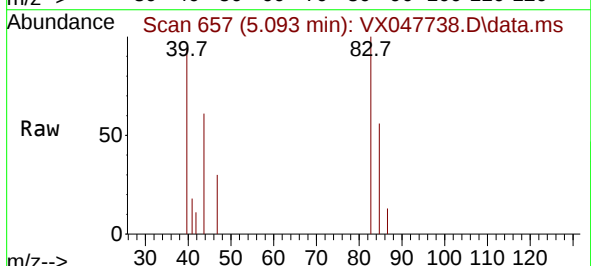
Acq: 23 Sep 2025 16:55

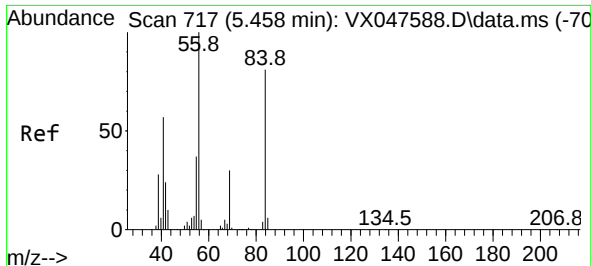
Tgt Ion: 83 Resp: 1637

Ion Ratio Lower Upper

83 100

85 55.6 51.8 77.6

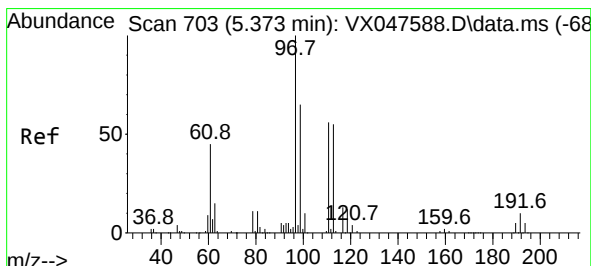
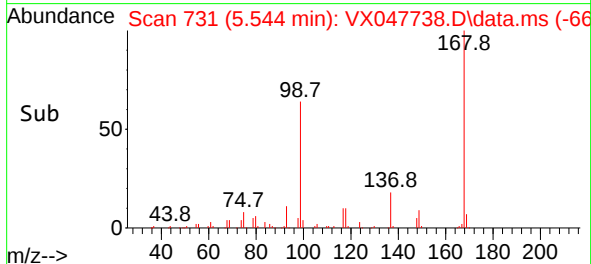
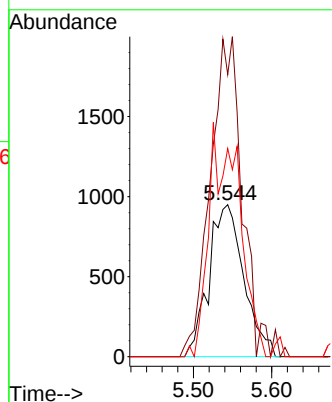
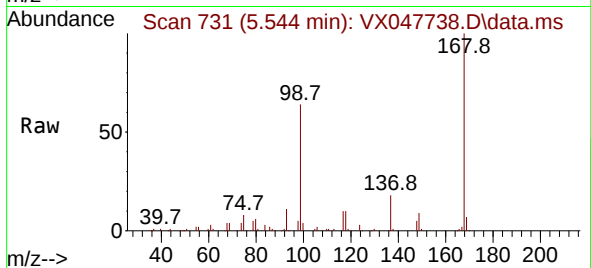




#31
Cyclohexane
Concen: 1.044 ug/l
RT: 5.544 min Scan# 717
Delta R.T. 0.085 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

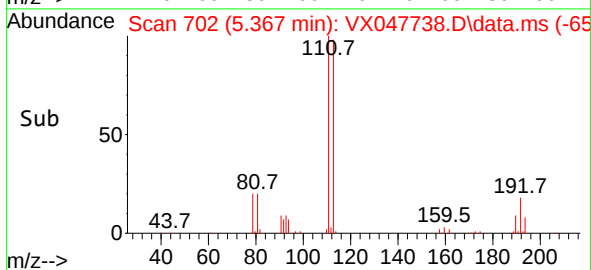
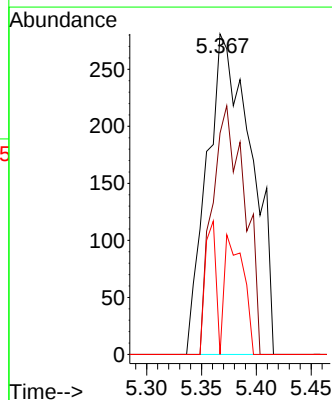
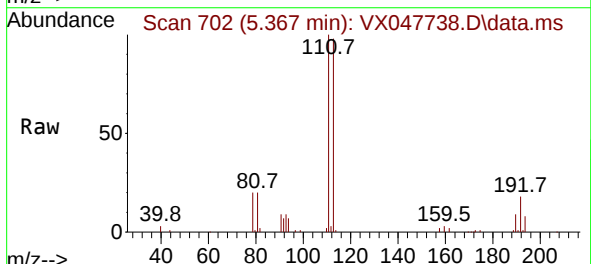
Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

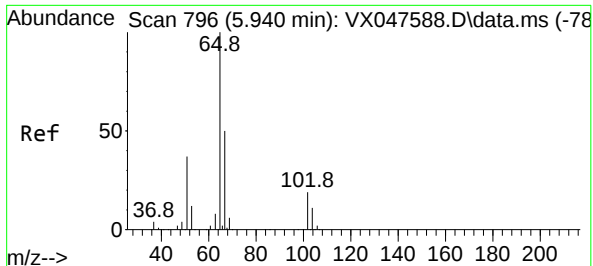
Tgt Ion: 56 Resp: 2952
Ion Ratio Lower Upper
56 100
69 185.5 23.8 35.8#
84 136.8 64.6 97.0#



#32
1,1,1-Trichloroethane
Concen: 0.273 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 97 Resp: 796
Ion Ratio Lower Upper
97 100
99 0.0 50.6 76.0#
61 15.7 35.8 53.8#





#33

1,2-Dichloroethane-d4

Concen: 53.476 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX047738.D

Acq: 23 Sep 2025 16:55

Instrument :

MSVOA_X

ClientSampleId :

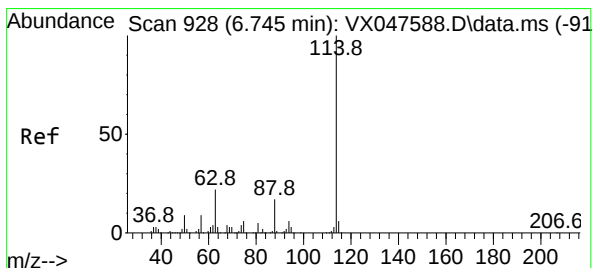
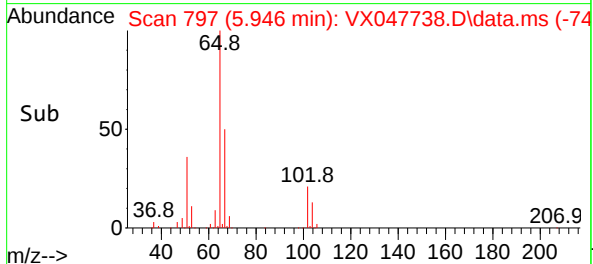
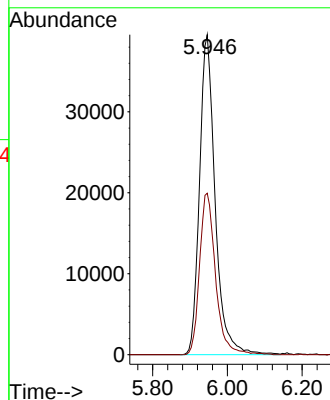
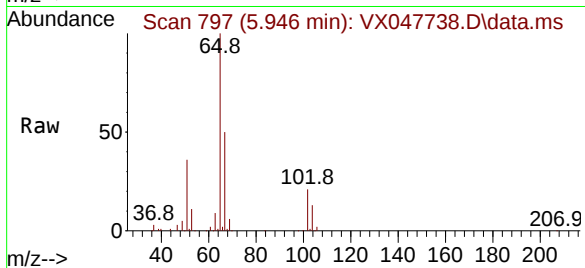
DUP06-20250912

Tgt Ion: 65 Resp: 114450

Ion Ratio Lower Upper

65 100

67 51.8 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: VX047738.D

Acq: 23 Sep 2025 16:55

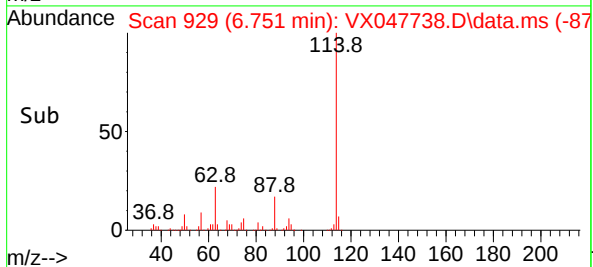
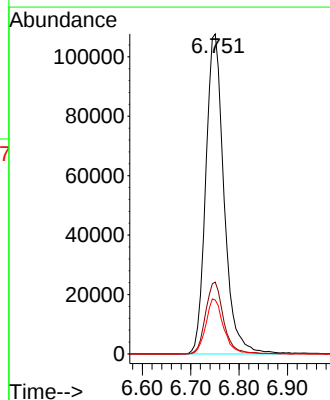
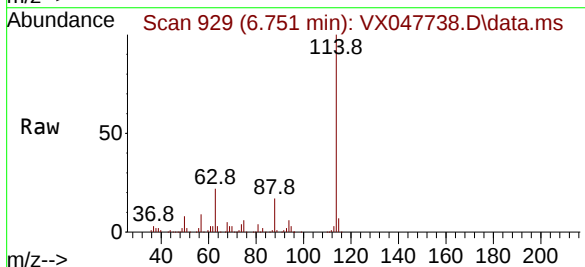
Tgt Ion: 114 Resp: 282290

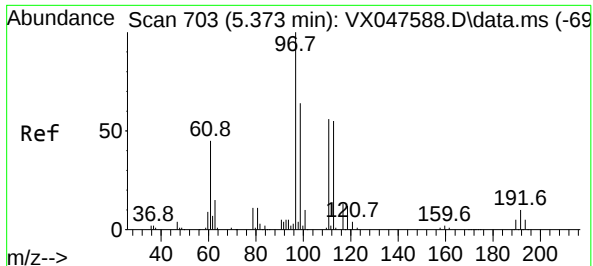
Ion Ratio Lower Upper

114 100

63 25.6 0.0 44.0

88 16.8 0.0 34.2





#35

Dibromofluoromethane

Concen: 49.515 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX047738.D

Acq: 23 Sep 2025 16:55

Instrument :

MSVOA_X

ClientSampleId :

DUP06-20250912

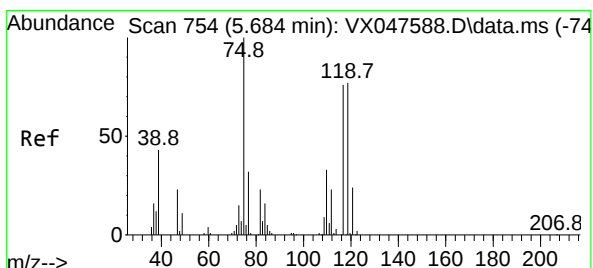
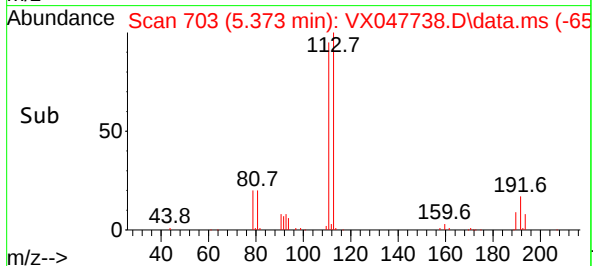
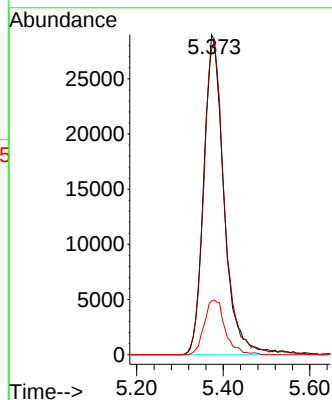
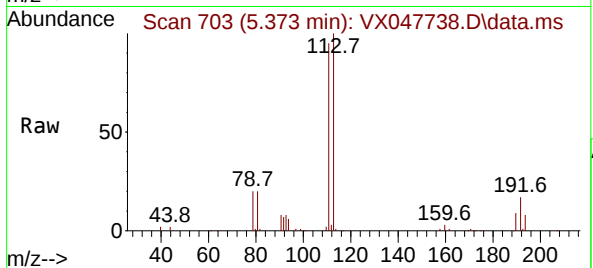
Tgt Ion:113 Resp: 93741

Ion Ratio Lower Upper

113 100

111 99.7 80.9 121.3

192 17.6 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.015 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.140 min

Lab File: VX047738.D

Acq: 23 Sep 2025 16:55

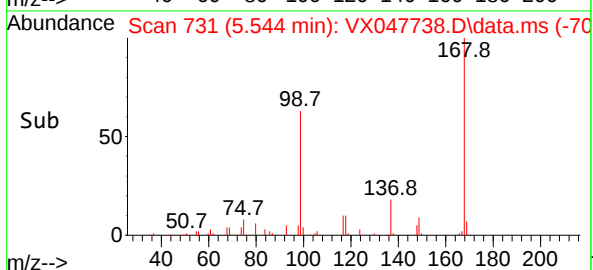
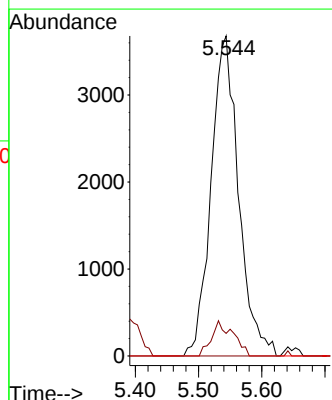
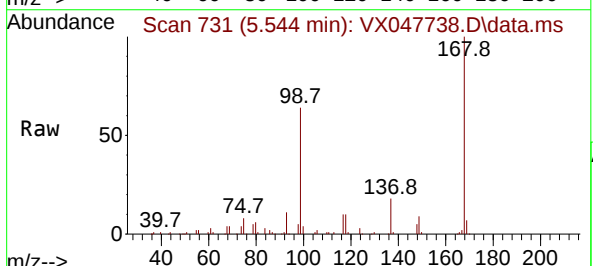
Tgt Ion: 75 Resp: 11107

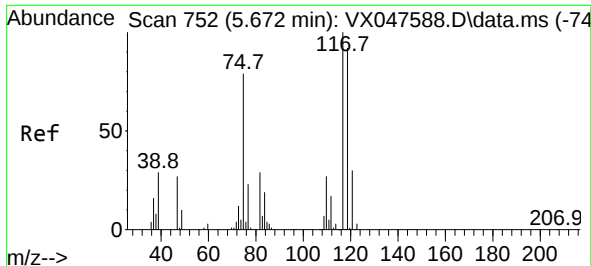
Ion Ratio Lower Upper

75 100

110 8.6 16.7 50.1#

77 0.0 24.3 36.5#

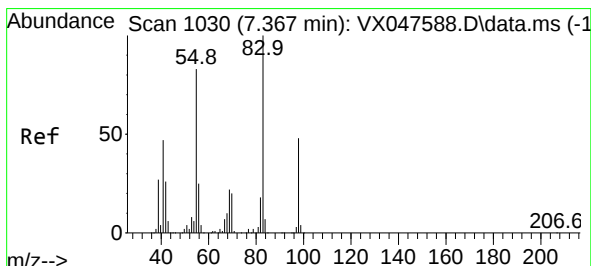
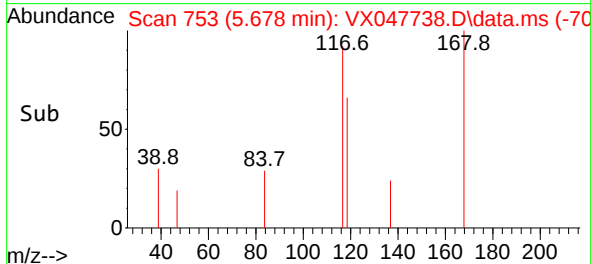
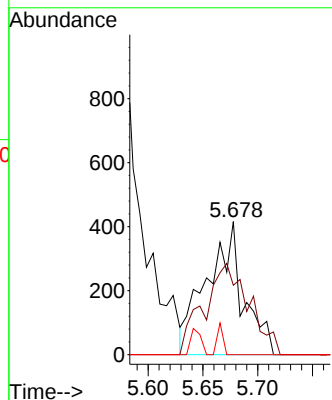
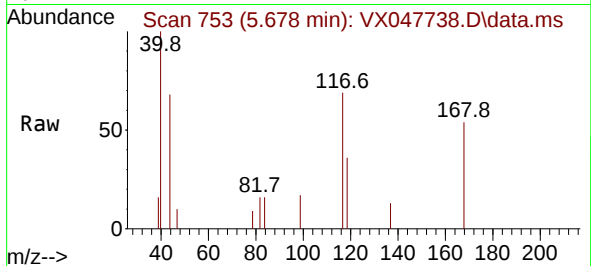




#38
Carbon Tetrachloride
Concen: 0.318 ug/l
RT: 5.678 min Scan# 711
Delta R.T. 0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

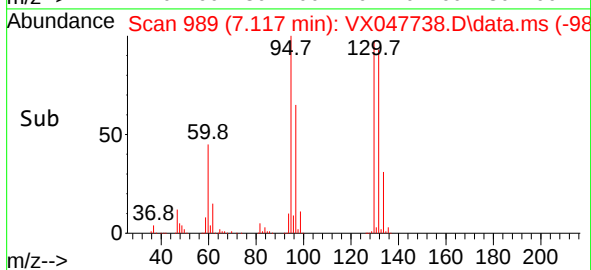
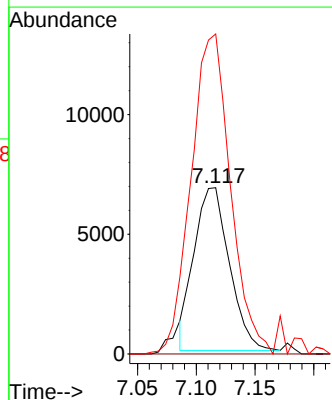
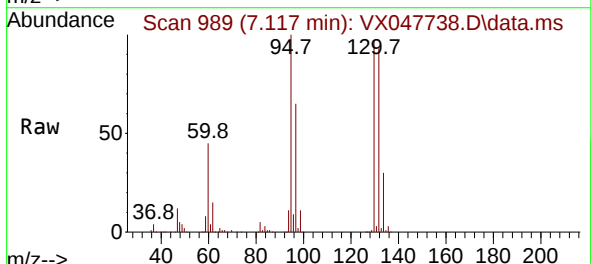
Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

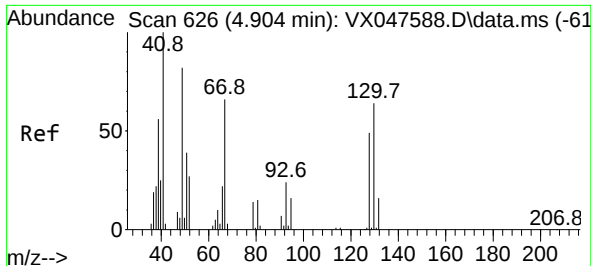
Tgt Ion:117 Resp: 955
Ion Ratio Lower Upper
117 100
119 52.2 73.4 110.2#
121 0.0 23.8 35.6#



#39
Methylcyclohexane
Concen: 4.529 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.250 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 83 Resp: 14221
Ion Ratio Lower Upper
83 100
55 0.0 66.4 99.6#
98 285.9 38.1 57.1#

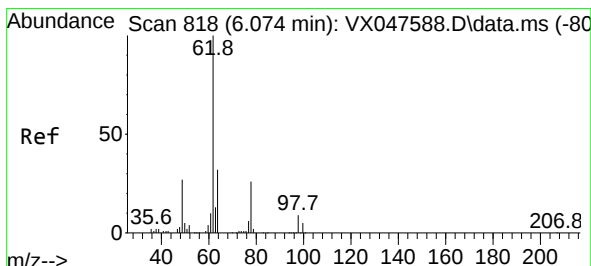
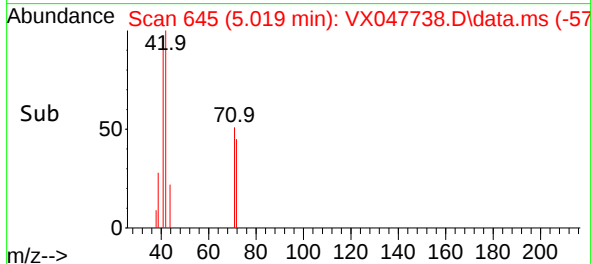
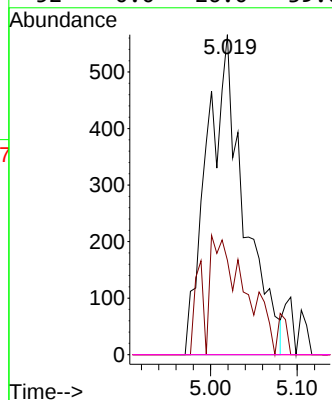
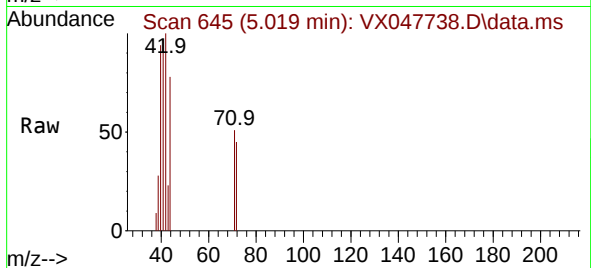




#41
Methacrylonitrile
Concen: 1.098 ug/l
RT: 5.019 min Scan# 645
Delta R.T. 0.116 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

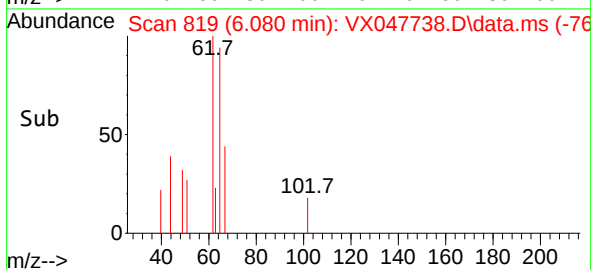
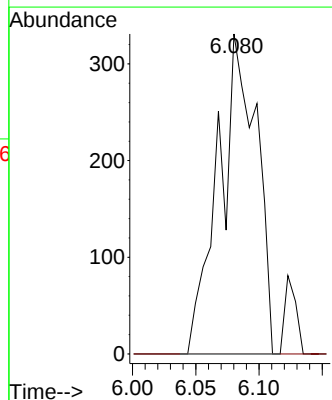
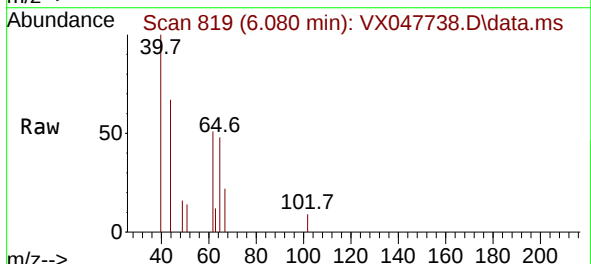
Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

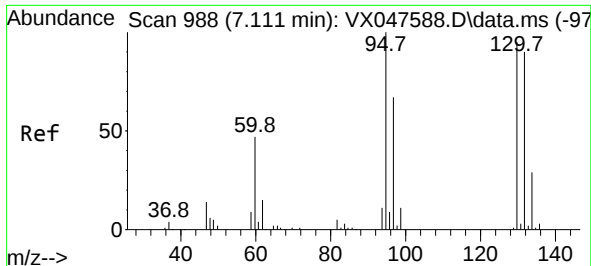
Tgt Ion:	41	Resp:	1679
Ion	Ratio	Lower	Upper
41	100		
39	28.9	43.3	64.9#
67	0.0	58.6	87.8#
52	0.0	26.0	39.0#



#42
1,2-Dichloroethane
Concen: 0.216 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion:	62	Resp:	691
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	17.0

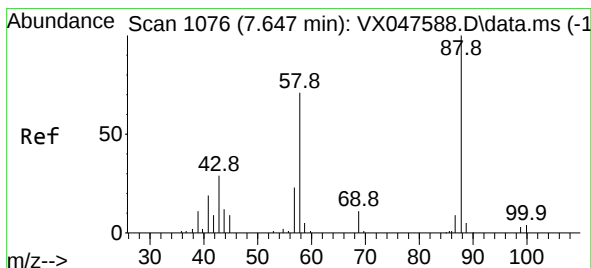
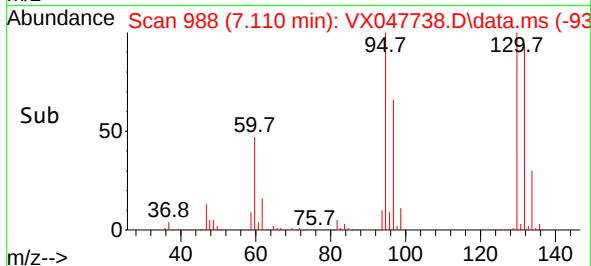
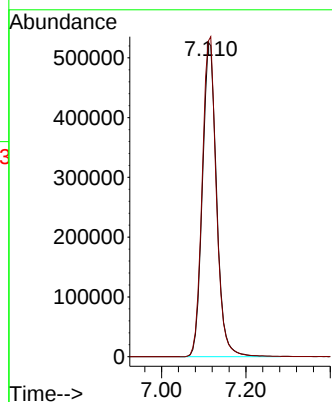
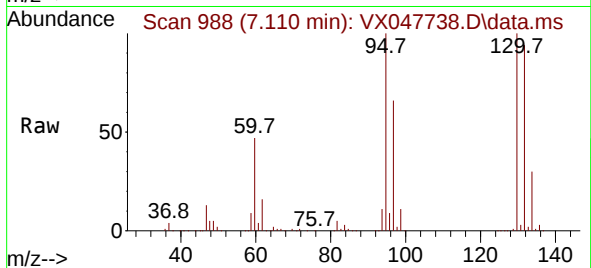




#44
Trichloroethene
Concen: 604.618 ug/l
RT: 7.110 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

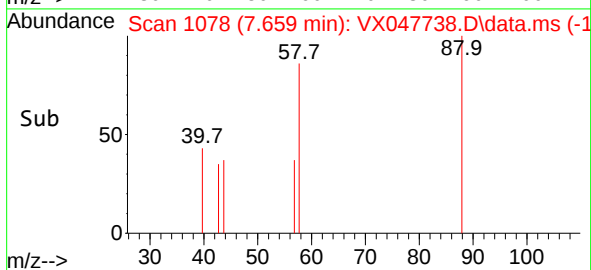
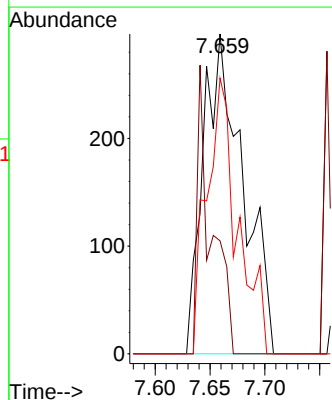
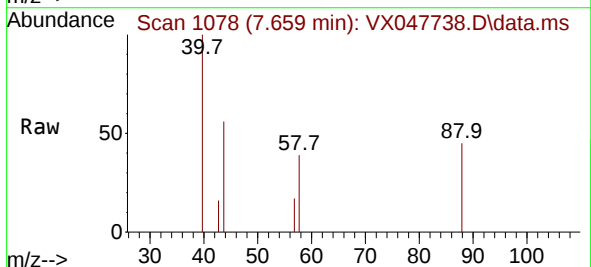
Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

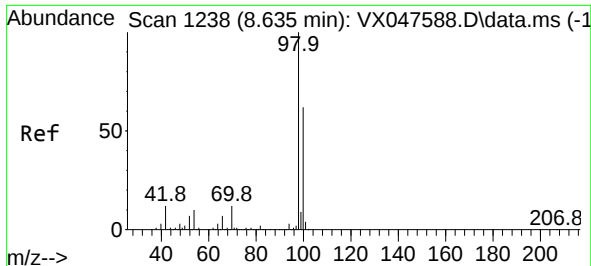
Tgt Ion:130 Resp: 1228197
Ion Ratio Lower Upper
130 100
95 100.3 0.0 210.8



#49
1,4-Dioxane
Concen: 30.506 ug/l
RT: 7.659 min Scan# 1078
Delta R.T. 0.012 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 88 Resp: 746
Ion Ratio Lower Upper
88 100
43 31.9 30.2 45.2
58 66.9 59.5 89.3

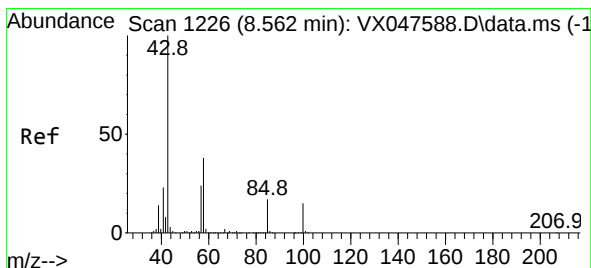
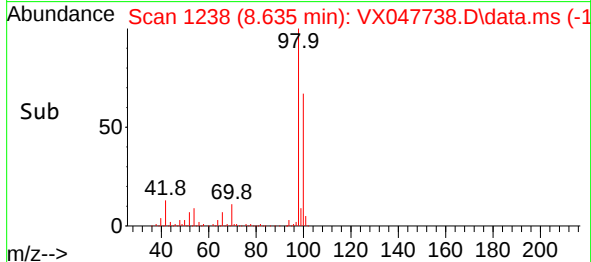
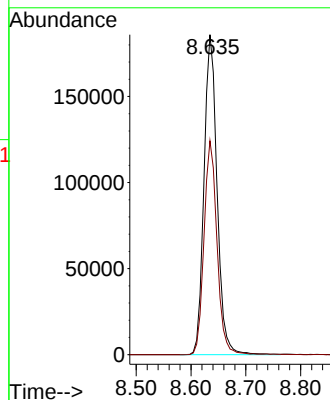
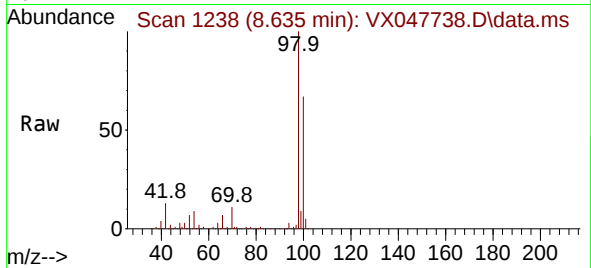




#50
Toluene-d8
Concen: 46.910 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

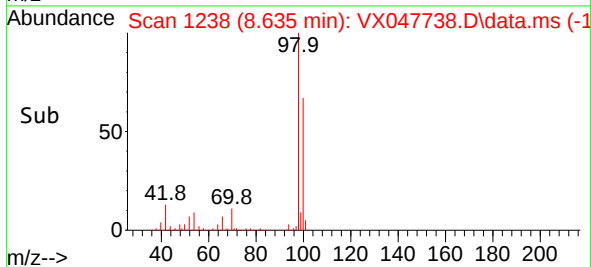
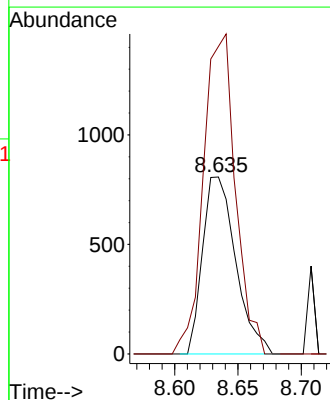
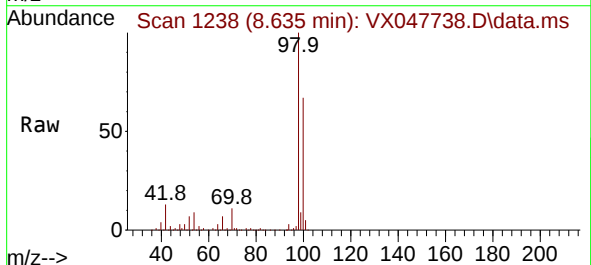
Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

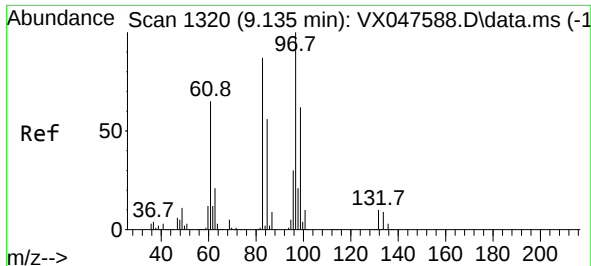
Tgt Ion: 98 Resp: 307302
Ion Ratio Lower Upper
98 100
100 66.8 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 0.547 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.073 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 43 Resp: 1473
Ion Ratio Lower Upper
43 100
58 174.7 30.3 45.5#





#55

1,1,2-Trichloroethane

Concen: 0.532 ug/l

RT: 9.141 min Scan# 1161

Delta R.T. 0.006 min

Lab File: VX047738.D

Acq: 23 Sep 2025 16:55

Instrument :

MSVOA_X

ClientSampleId :

DUP06-20250912

Tgt Ion: 97 Resp: 1061

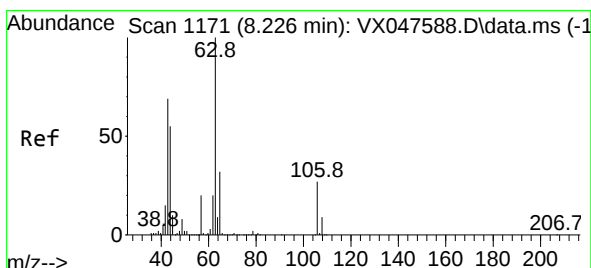
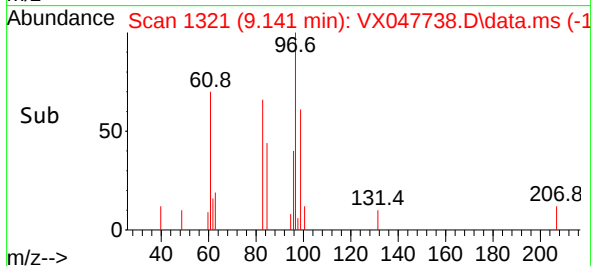
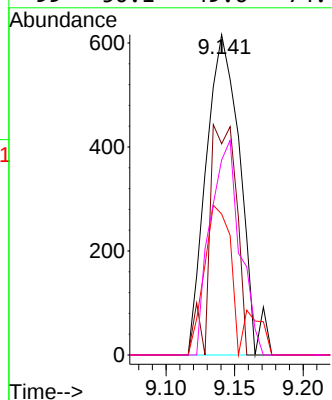
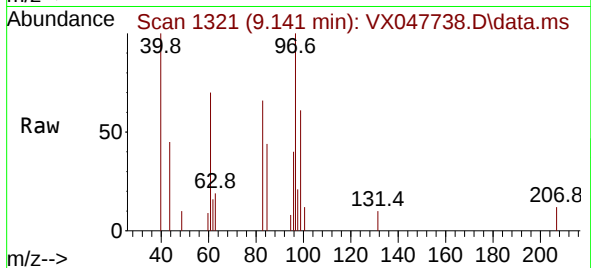
Ion Ratio Lower Upper

97 100

83 54.3 69.6 104.4#

85 36.2 45.0 67.6#

99 50.1 49.6 74.4



#58

2-Chloroethyl Vinyl ether

Concen: 7.951 ug/l

RT: 8.165 min Scan# 1161

Delta R.T. -0.061 min

Lab File: VX047738.D

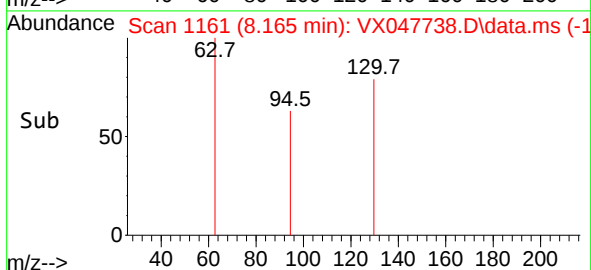
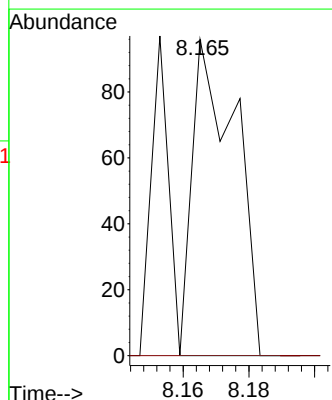
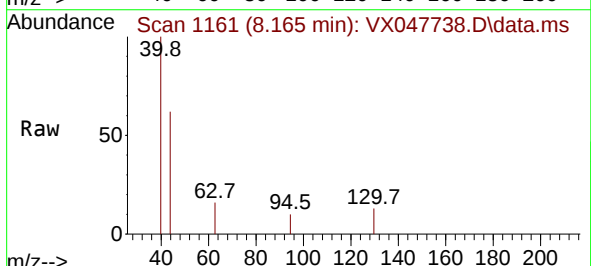
Acq: 23 Sep 2025 16:55

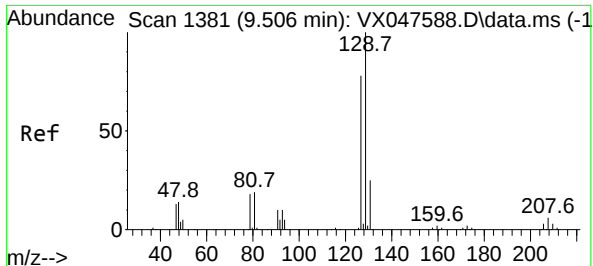
Tgt Ion: 63 Resp: 87

Ion Ratio Lower Upper

63 100

106 0.0 21.9 32.9#

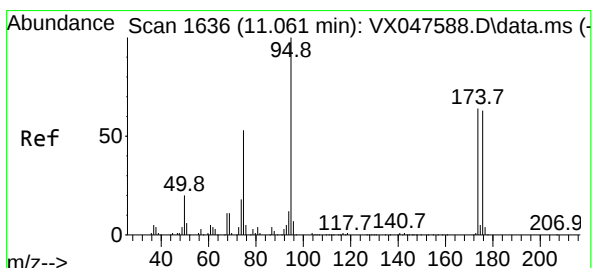
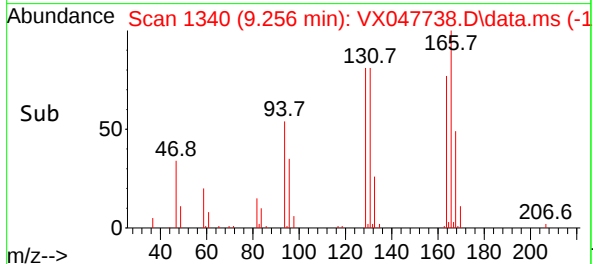
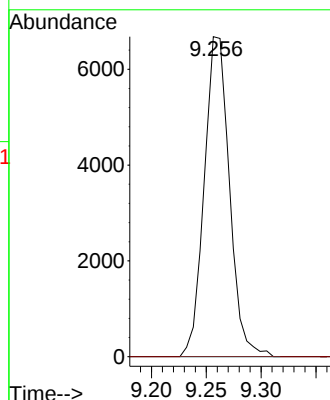
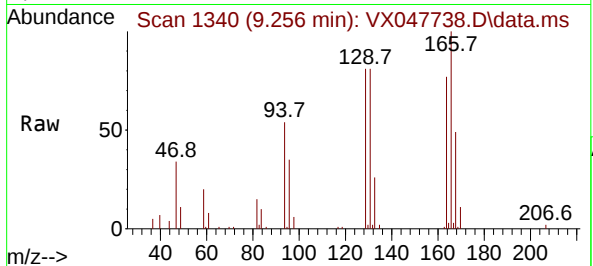




#60
Dibromochloromethane
Concen: 4.655 ug/l
RT: 9.256 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

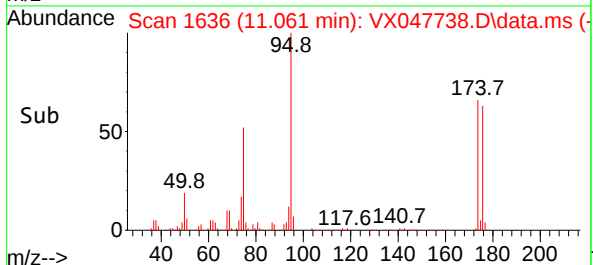
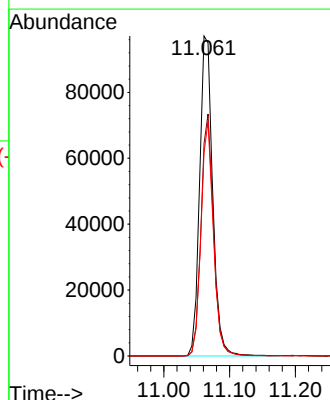
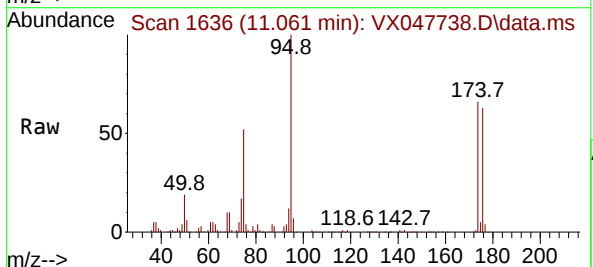
Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

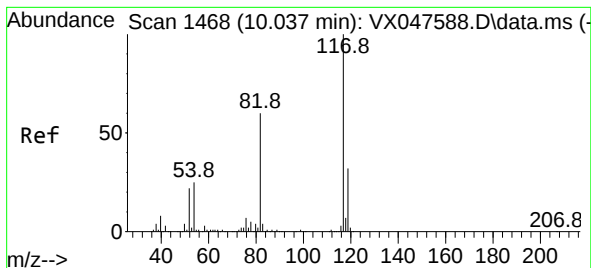
Tgt Ion:129 Resp: 10706
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 53.917 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 95 Resp: 134047
Ion Ratio Lower Upper
95 100
174 72.5 0.0 141.6
176 69.5 0.0 138.4

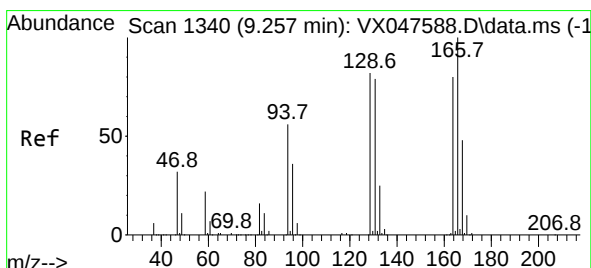
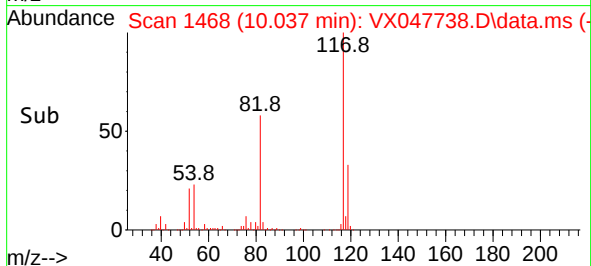
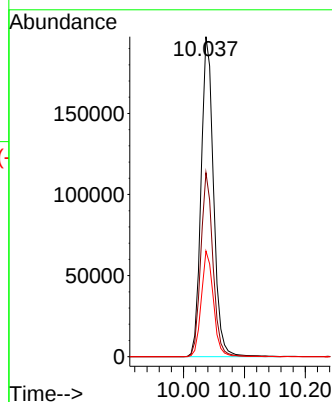
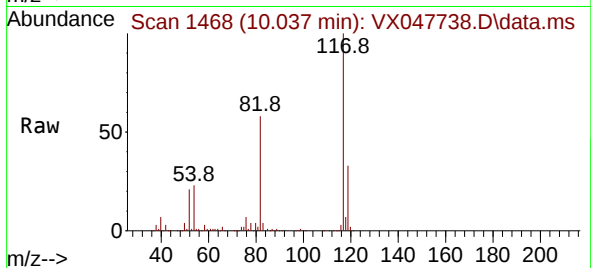




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

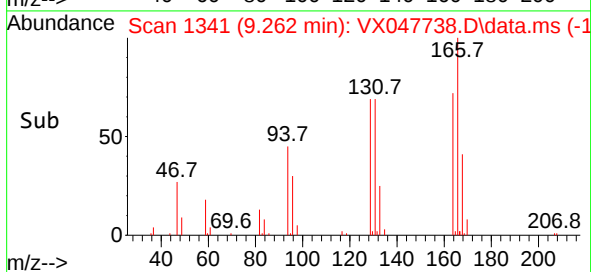
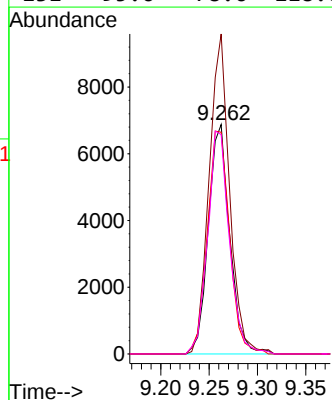
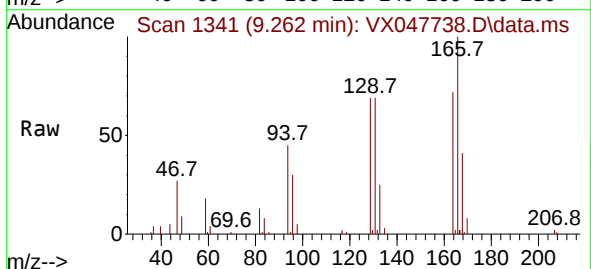
Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

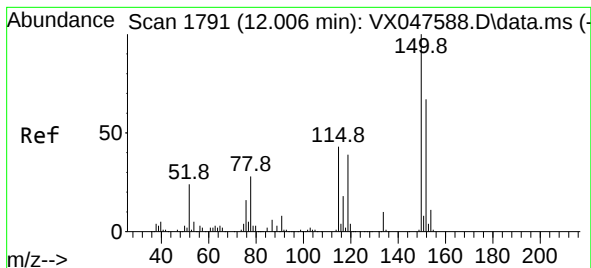
Tgt Ion:117 Resp: 281029
Ion Ratio Lower Upper
117 100
82 57.5 47.8 71.6
119 33.0 25.2 37.8



#64
Tetrachloroethene
Concen: 5.780 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion:164 Resp: 10589
Ion Ratio Lower Upper
164 100
166 141.8 100.2 150.2
129 96.6 81.8 122.6
131 95.6 78.6 118.0

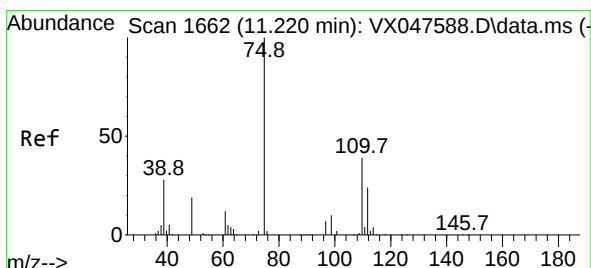
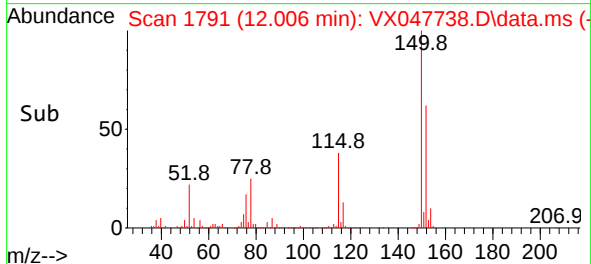
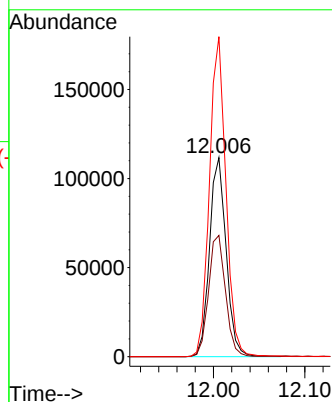
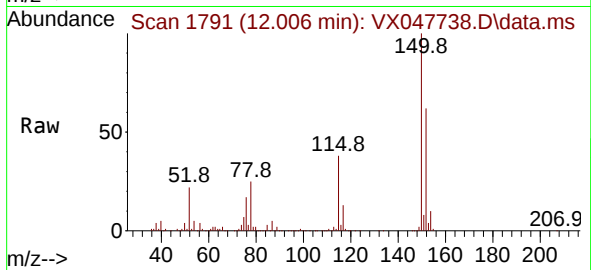




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: VX047738.D
 Acq: 23 Sep 2025 16:55

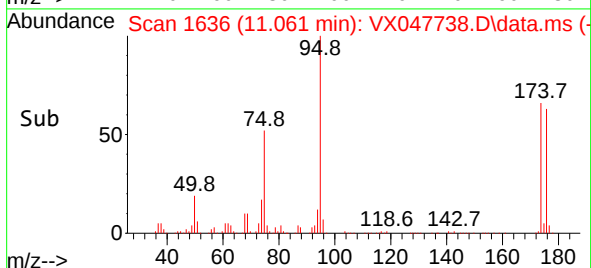
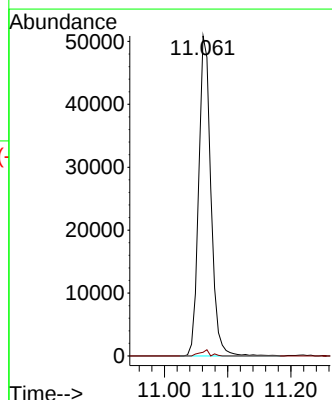
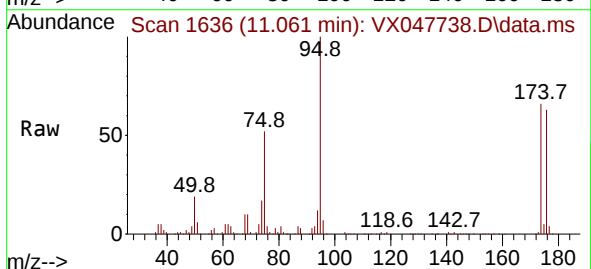
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP06-20250912

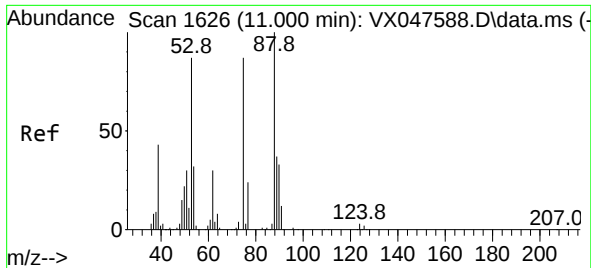
Tgt Ion:152 Resp: 141279
 Ion Ratio Lower Upper
 152 100
 115 62.2 44.9 134.5
 150 159.0 0.0 352.0



#76
 1,2,3-Trichloropropane
 Concen: 23.924 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.159 min
 Lab File: VX047738.D
 Acq: 23 Sep 2025 16:55

Tgt Ion: 75 Resp: 68434
 Ion Ratio Lower Upper
 75 100
 77 1.5 18.8 56.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.010 ug/l
 RT: 11.061 min Scan# 11
 Delta R.T. 0.061 min
 Lab File: VX047738.D
 Acq: 23 Sep 2025 16:55

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP06-20250912

Tgt Ion: 75 Resp: 68434
 Ion Ratio Lower Upper
 75 100
 53 0.0 83.4 125.2#
 89 0.0 36.3 54.5#

