

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052225\
 Data File : VX046327.D
 Acq On : 22 May 2025 14:20
 Operator : JC/MD
 Sample : Q2097-18
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RT-3888

Quant Time: May 23 01:47:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

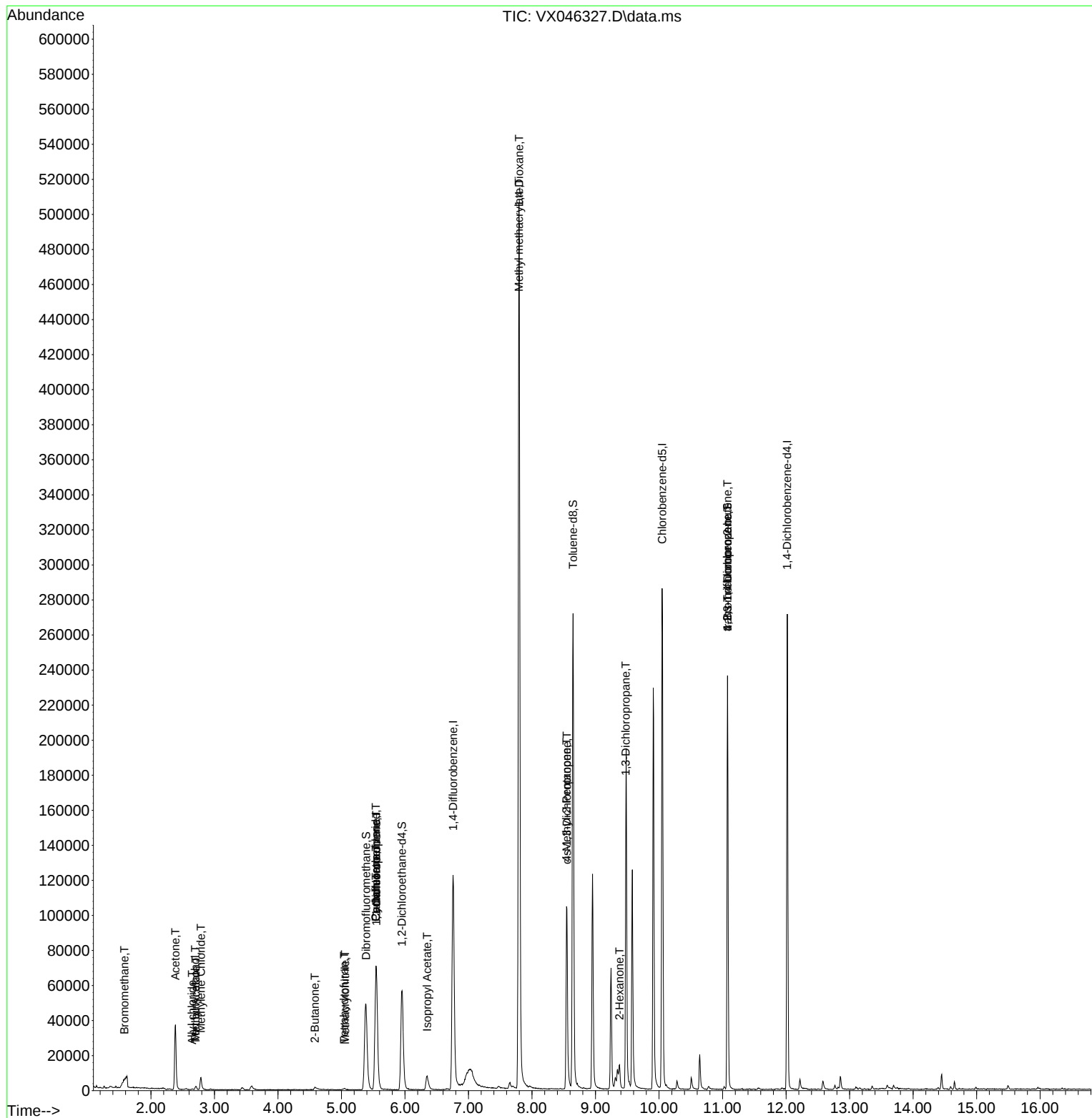
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	59919	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	118466	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	115533	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	49951	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	60767	54.398	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 108.800%		
35) Dibromofluoromethane	5.385	113	43349	50.815	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 101.620%		
50) Toluene-d8	8.647	98	152918	51.791	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 103.580%		
62) 4-Bromofluorobenzene	11.079	95	60393	53.323	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 106.640%		
Target Compounds						Qvalue
5) Bromomethane	1.581	94	122	0.318	ug/l #	4
11) Tert butyl alcohol	2.697	59	135	0.861	ug/l #	72
14) Allyl chloride	2.648	41	345	0.254	ug/l #	21
16) Acetone	2.386	43	41301	92.211	ug/l	100
18) Methyl Acetate	2.703	43	2703	2.601	ug/l	95
20) Methylene Chloride	2.788	84	3161	3.683	ug/l #	82
25) 2-Butanone	4.580	43	3627	5.578	ug/l #	86
29) Tetrahydrofuran	5.044	42	634	1.556	ug/l #	68
31) Cyclohexane	5.544	56	1728	1.298	ug/l #	39
36) 1,1-Dichloropropene	5.550	75	6161	5.375	ug/l #	52
38) Carbon Tetrachloride	5.544	117	6996	5.432	ug/l #	17
41) Methacrylonitrile	5.056	41	295	0.398	ug/l #	45
43) Isopropyl Acetate	6.348	43	12444	5.760	ug/l	99
48) Methyl methacrylate	7.793	41	48721	44.158	ug/l #	50
49) 1,4-Dioxane	7.799	88	48	2.291	ug/l #	1
51) 4-Methyl-2-Pentanone	8.543	43	41264	28.775	ug/l #	52
54) cis-1,3-Dichloropropene	8.549	75	15827	12.423	ug/l #	62
57) 1,3-Dichloropropane	9.476	76	1655	1.135	ug/l #	42
59) 2-Hexanone	9.378	43	13329	12.563	ug/l #	28
76) 1,2,3-Trichloropropane	11.079	75	34695	28.856	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	34695	93.946	ug/l #	1

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

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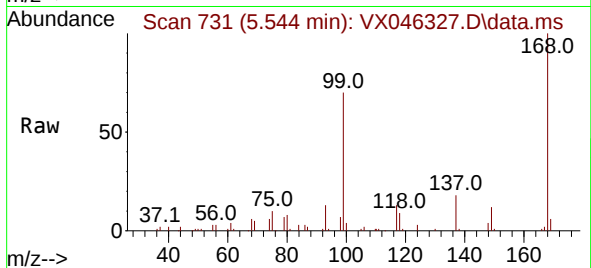
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX046327.D
Acq: 22 May 2025 14:20

Instrument :

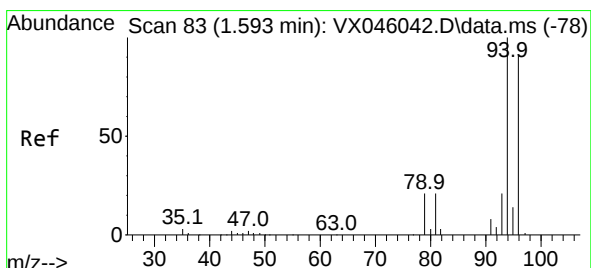
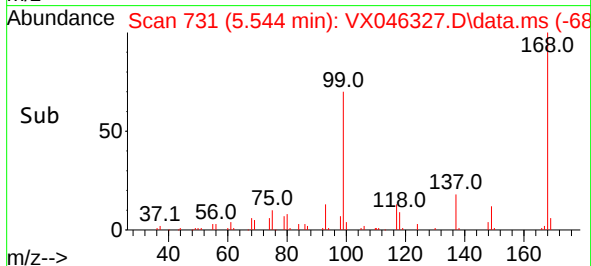
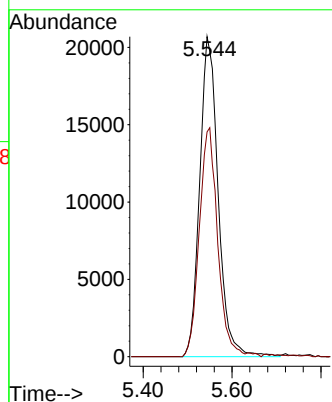
MSVOA_X

ClientSampleId :

RT-3888

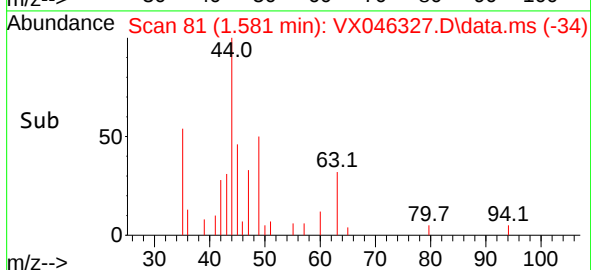
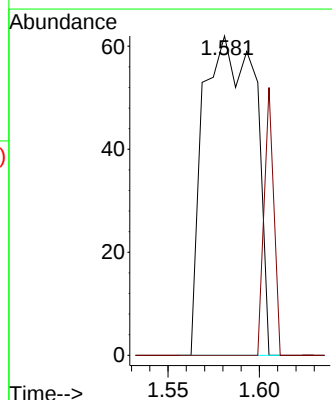
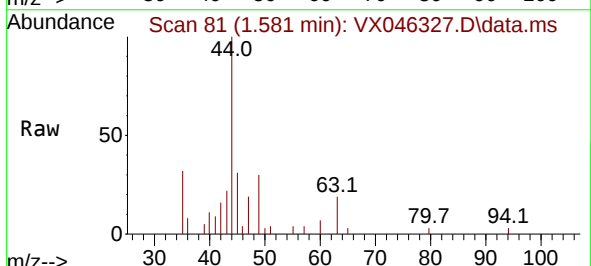


Tgt Ion:168 Resp: 59919
Ion Ratio Lower Upper
168 100
99 70.2 54.9 82.3



#5
Bromomethane
Concen: 0.318 ug/l
RT: 1.581 min Scan# 81
Delta R.T. -0.012 min
Lab File: VX046327.D
Acq: 22 May 2025 14:20

Tgt Ion: 94 Resp: 122
Ion Ratio Lower Upper
94 100
96 0.0 72.8 109.2#

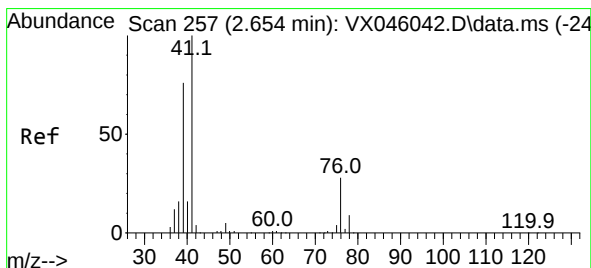
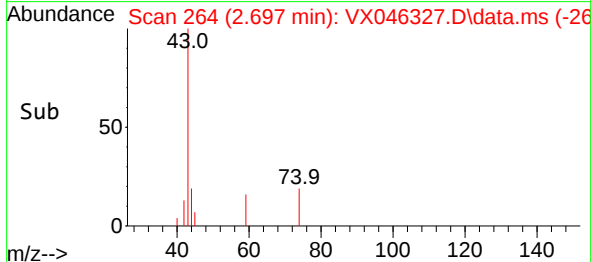
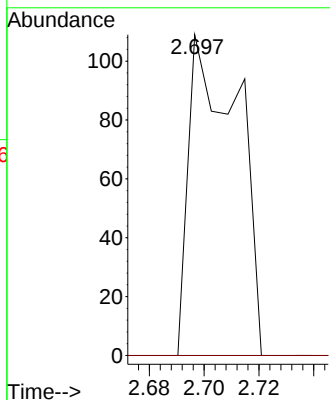
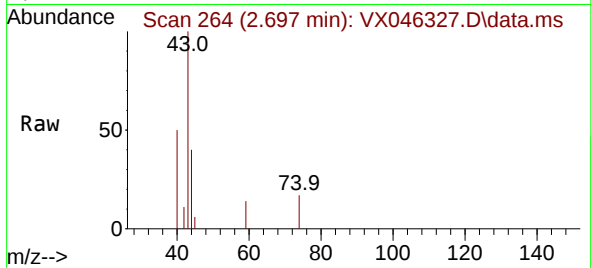




#11
Tert butyl alcohol
Concen: 0.861 ug/l
RT: 2.697 min Scan# 210
Delta R.T. -0.281 min
Lab File: VX046327.D
Acq: 22 May 2025 14:20

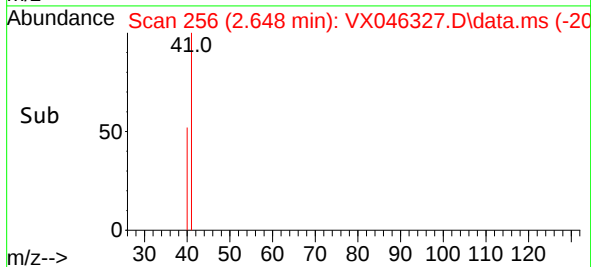
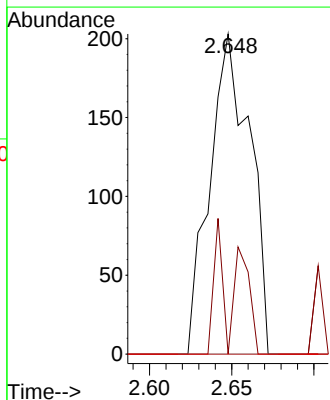
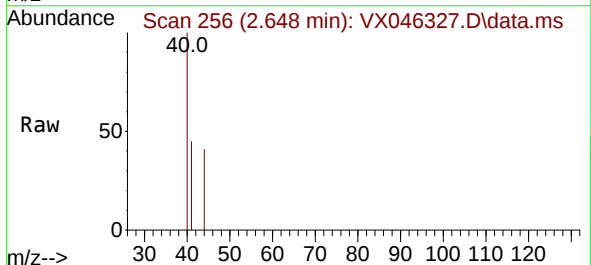
Instrument :
MSVOA_X
ClientSampleId :
RT-3888

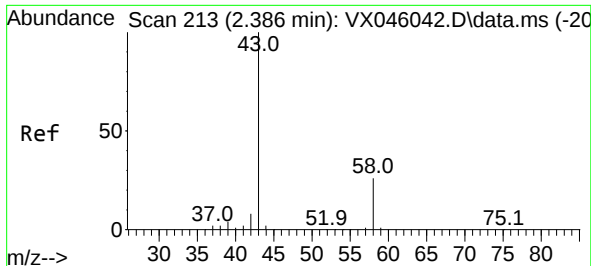
Tgt Ion: 59 Resp: 135
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#14
Allyl chloride
Concen: 0.254 ug/l
RT: 2.648 min Scan# 256
Delta R.T. -0.006 min
Lab File: VX046327.D
Acq: 22 May 2025 14:20

Tgt Ion: 41 Resp: 345
Ion Ratio Lower Upper
41 100
39 0.0 60.6 90.8#
76 0.0 24.9 37.3#

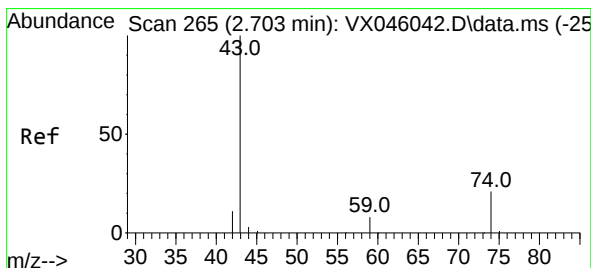
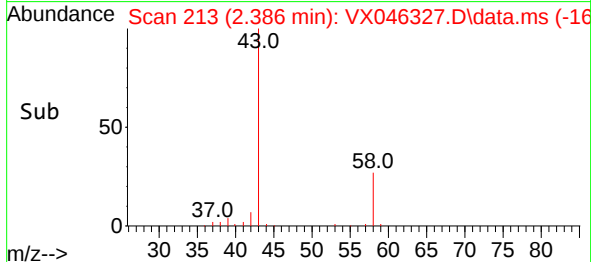
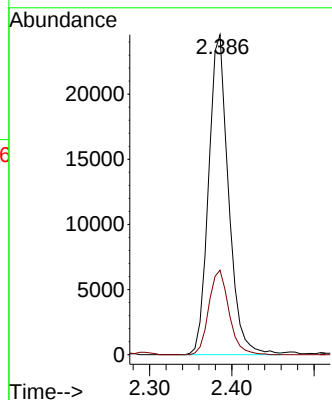
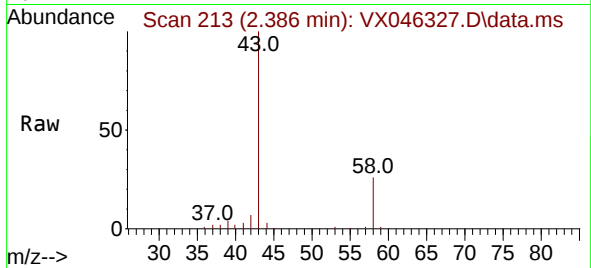




#16
Acetone
Concen: 92.211 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX046327.D
Acq: 22 May 2025 14:20

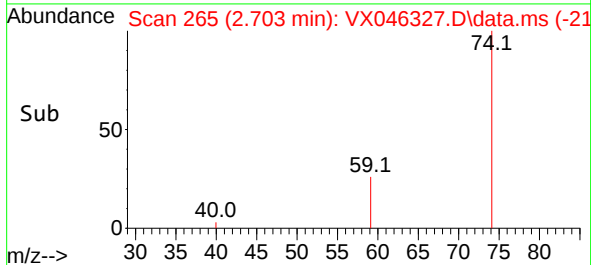
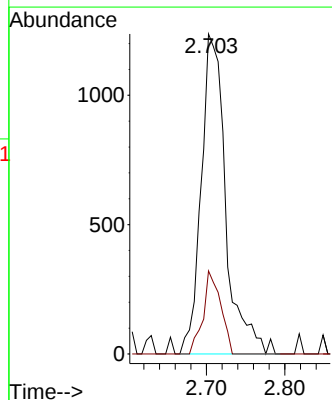
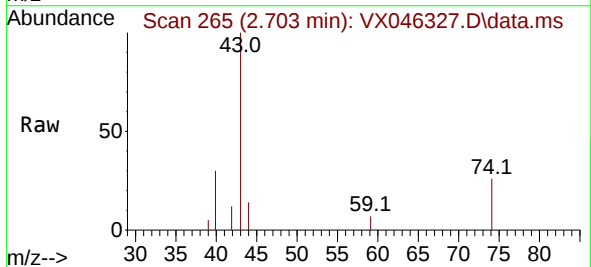
Instrument :
MSVOA_X
ClientSampleId :
RT-3888

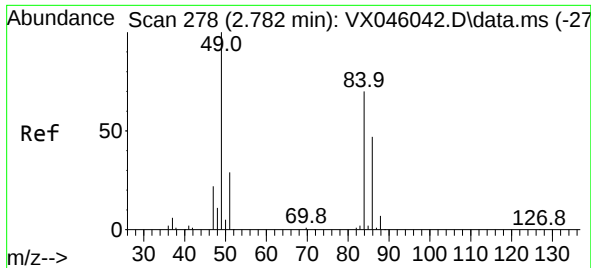
Tgt Ion: 43 Resp: 41301
Ion Ratio Lower Upper
43 100
58 26.4 21.2 31.8



#18
Methyl Acetate
Concen: 2.601 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046327.D
Acq: 22 May 2025 14:20

Tgt Ion: 43 Resp: 2703
Ion Ratio Lower Upper
43 100
74 18.5 16.7 25.1

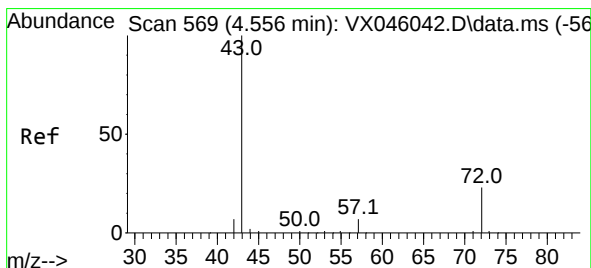
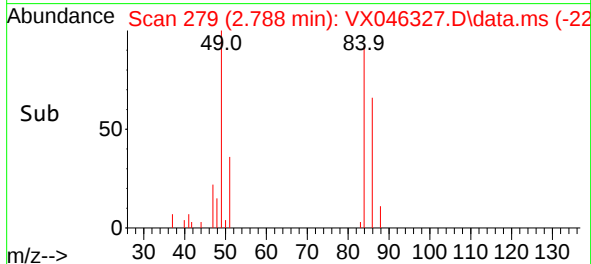
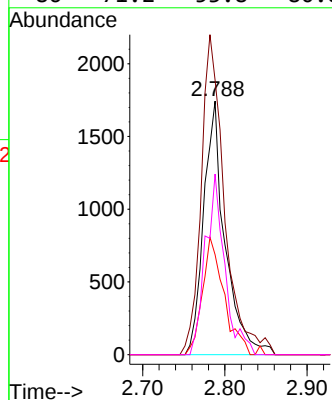
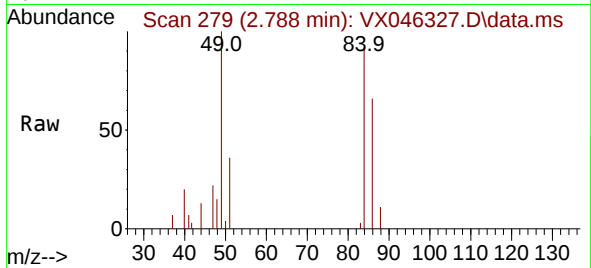




#20
Methylene Chloride
Concen: 3.683 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX046327.D
Acq: 22 May 2025 14:20

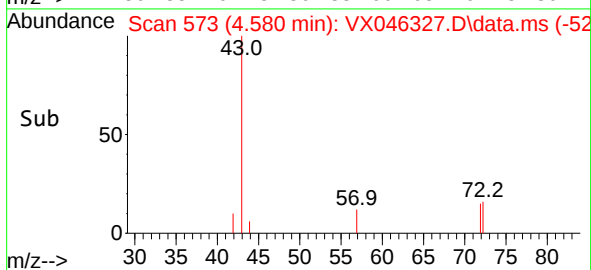
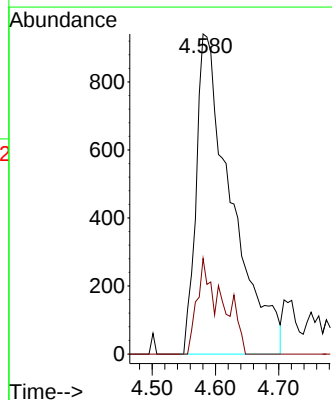
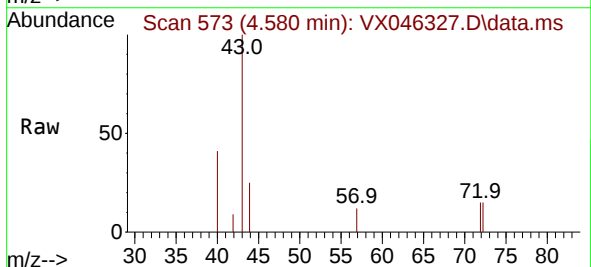
Instrument :
MSVOA_X
ClientSampleId :
RT-3888

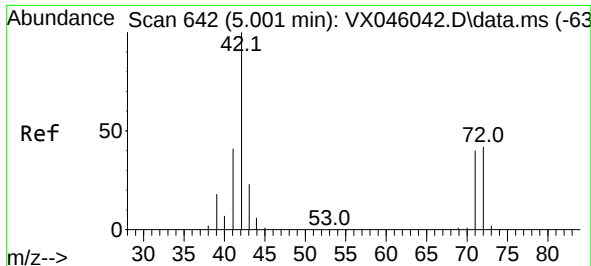
Tgt Ion: 84 Resp: 3161
Ion Ratio Lower Upper
84 100
49 108.3 113.9 170.9#
51 39.4 33.5 50.3
86 71.2 53.8 80.8



#25
2-Butanone
Concen: 5.578 ug/l
RT: 4.580 min Scan# 573
Delta R.T. 0.024 min
Lab File: VX046327.D
Acq: 22 May 2025 14:20

Tgt Ion: 43 Resp: 3627
Ion Ratio Lower Upper
43 100
72 29.9 18.4 27.6#





#29

Tetrahydrofuran

Concen: 1.556 ug/l

RT: 5.044 min Scan# 642

Delta R.T. 0.043 min

Lab File: VX046327.D

Acq: 22 May 2025 14:20

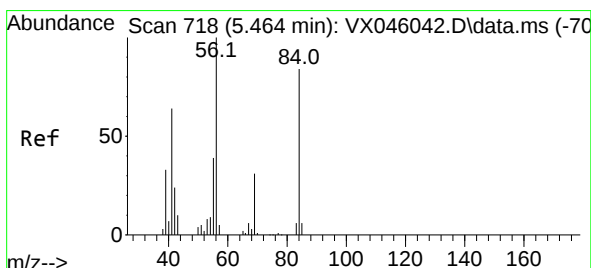
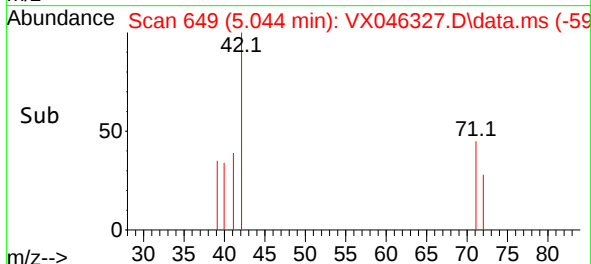
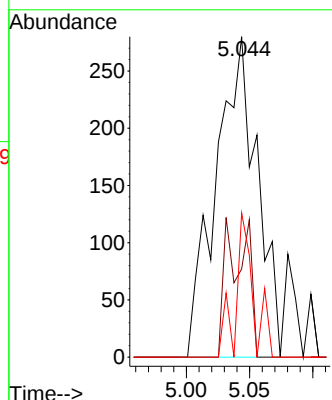
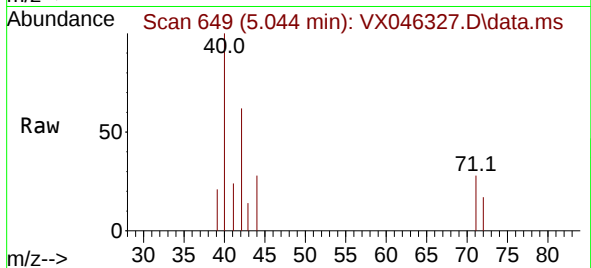
Instrument :

MSVOA_X

ClientSampleId :

RT-3888

Tgt Ion:	42	Resp:	634
Ion	Ratio	Lower	Upper
42	100		
72	22.1	33.7	50.5#
71	19.1	31.4	47.2#



#31

Cyclohexane

Concen: 1.298 ug/l

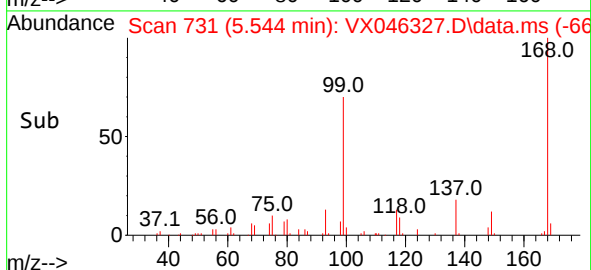
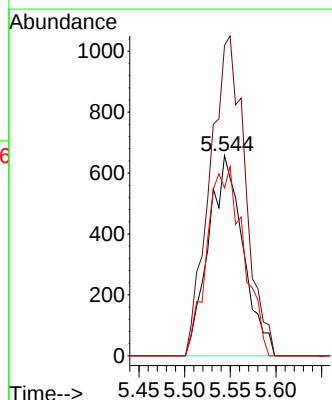
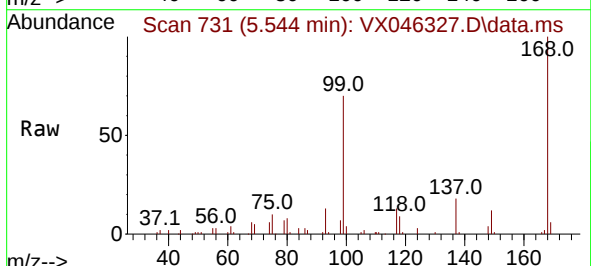
RT: 5.544 min Scan# 731

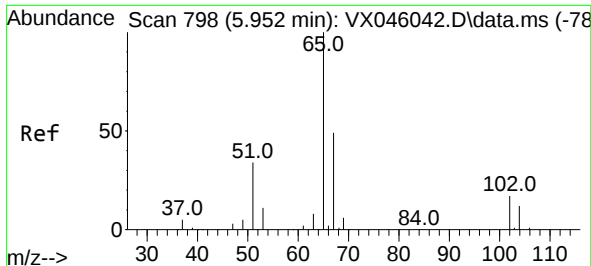
Delta R.T. 0.079 min

Lab File: VX046327.D

Acq: 22 May 2025 14:20

Tgt Ion:	56	Resp:	1728
Ion	Ratio	Lower	Upper
56	100		
69	155.1	24.4	36.6#
84	83.9	66.9	100.3





#33

1,2-Dichloroethane-d4

Concen: 54.398 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX046327.D

Acq: 22 May 2025 14:20

Instrument :

MSVOA_X

ClientSampleId :

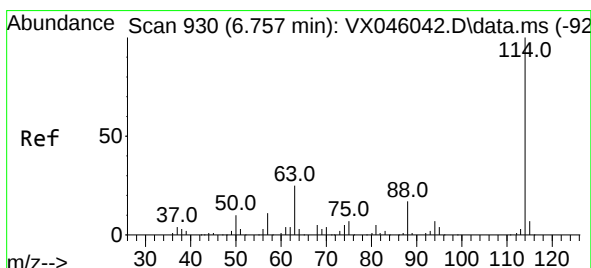
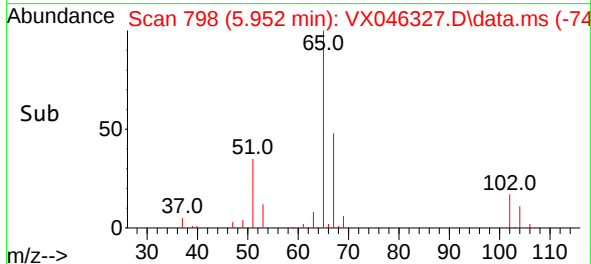
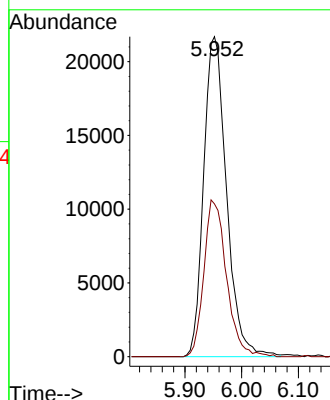
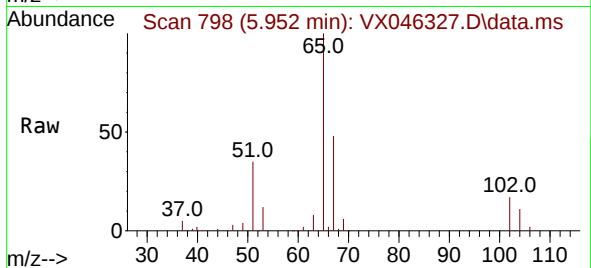
RT-3888

Tgt Ion: 65 Resp: 60767

Ion Ratio Lower Upper

65 100

67 48.5 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX046327.D

Acq: 22 May 2025 14:20

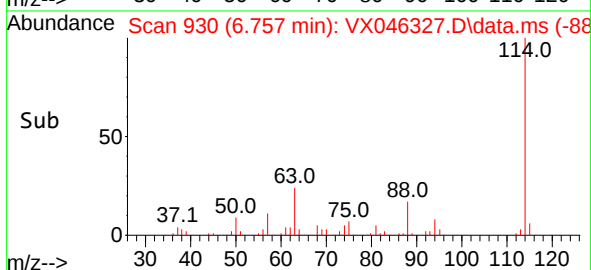
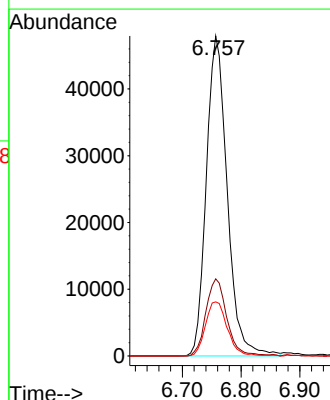
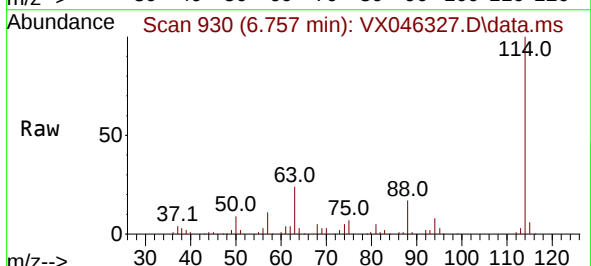
Tgt Ion: 114 Resp: 118466

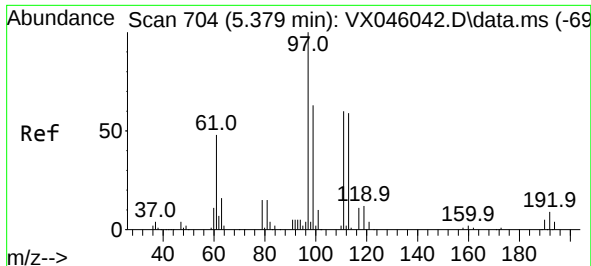
Ion Ratio Lower Upper

114 100

63 24.1 0.0 49.2

88 16.9 0.0 33.6

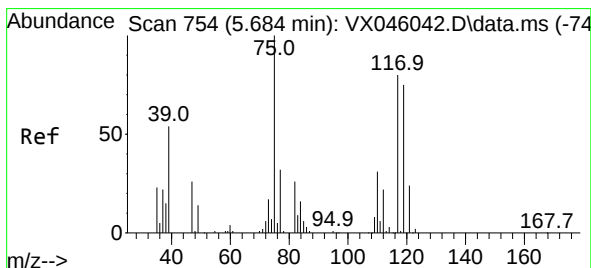
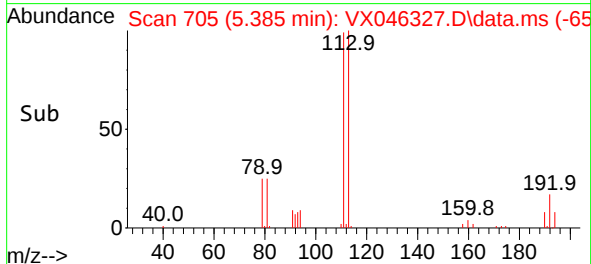
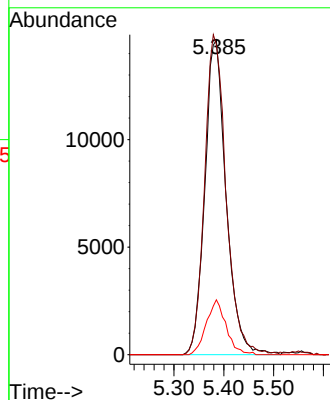
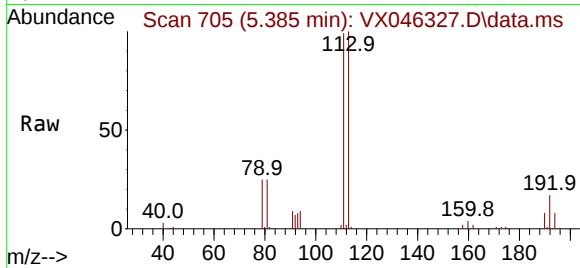




#35
Dibromofluoromethane
Concen: 50.815 ug/l
RT: 5.385 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX046327.D
Acq: 22 May 2025 14:20

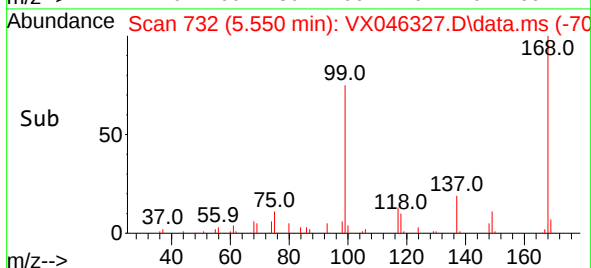
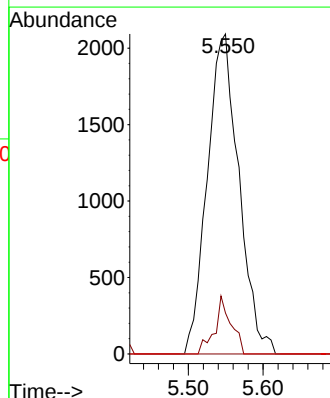
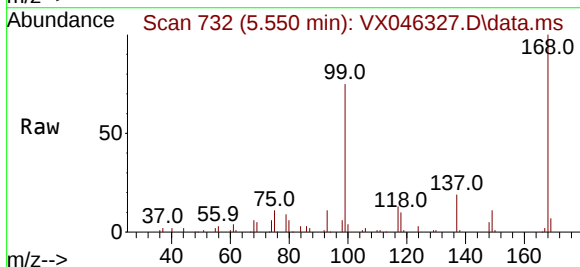
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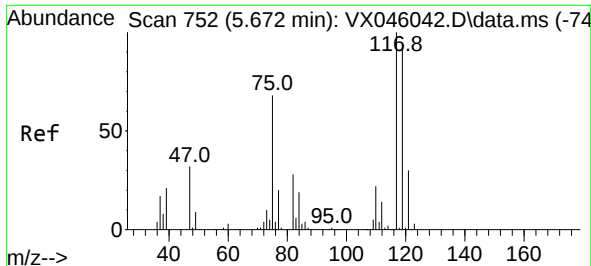
Tgt Ion:113 Resp: 43349
Ion Ratio Lower Upper
113 100
111 102.7 83.1 124.7
192 16.3 13.3 19.9



#36
1,1-Dichloropropene
Concen: 5.375 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.134 min
Lab File: VX046327.D
Acq: 22 May 2025 14:20

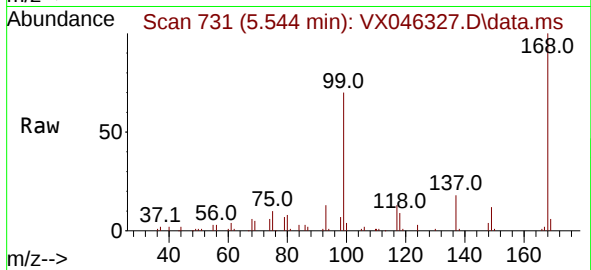
Tgt Ion: 75 Resp: 6161
Ion Ratio Lower Upper
75 100
110 9.3 16.3 48.9#
77 0.0 24.3 36.5#



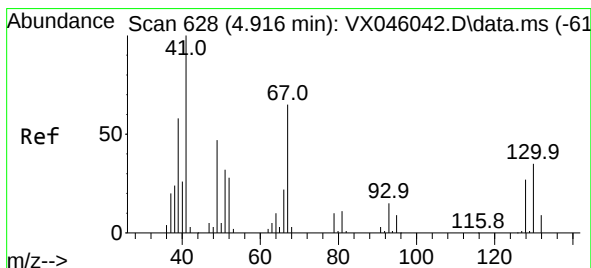
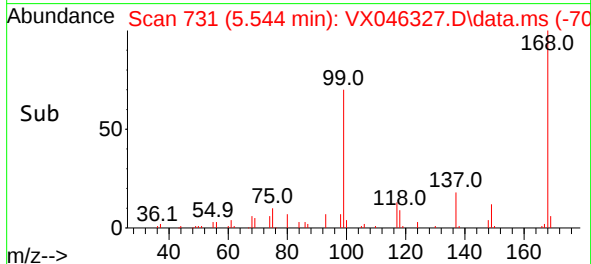
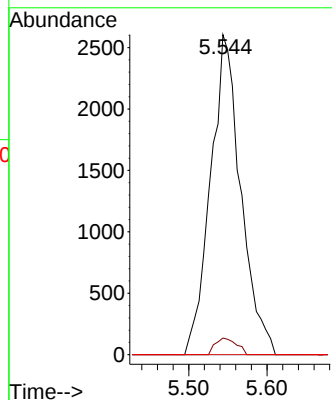


#38
Carbon Tetrachloride
Concen: 5.432 ug/l
RT: 5.544 min Scan# 711
Delta R.T. -0.128 min
Lab File: VX046327.D
Acq: 22 May 2025 14:20

Instrument :
MSVOA_X
ClientSampleId :
RT-3888

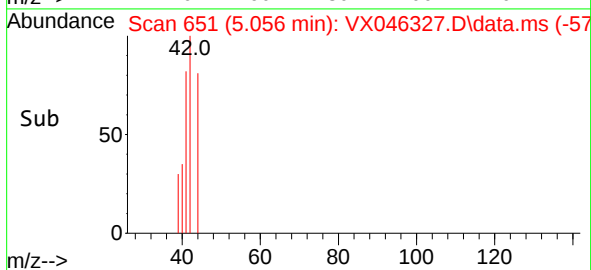
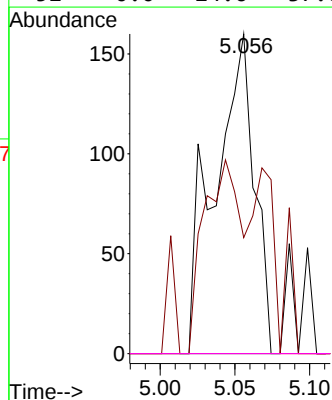
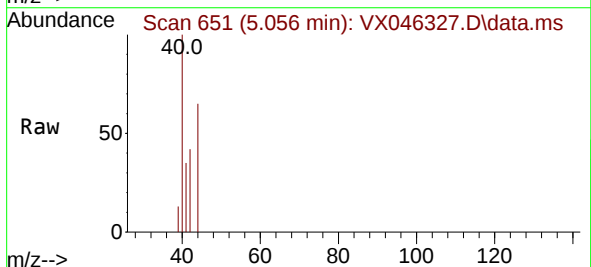


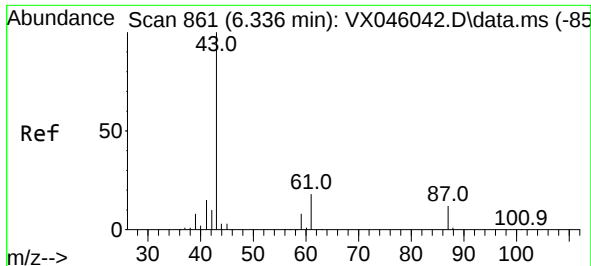
Tgt Ion:117 Resp: 6996
Ion Ratio Lower Upper
117 100
119 5.2 75.2 112.8#
121 0.0 24.2 36.4#



#41
Methacrylonitrile
Concen: 0.398 ug/l
RT: 5.056 min Scan# 651
Delta R.T. 0.140 min
Lab File: VX046327.D
Acq: 22 May 2025 14:20

Tgt Ion: 41 Resp: 295
Ion Ratio Lower Upper
41 100
39 40.0 47.2 70.8#
67 0.0 50.7 76.1#
52 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 5.760 ug/l

RT: 6.348 min Scan# 81

Delta R.T. 0.012 min

Lab File: VX046327.D

Acq: 22 May 2025 14:20

Instrument :

MSVOA_X

ClientSampleId :

RT-3888

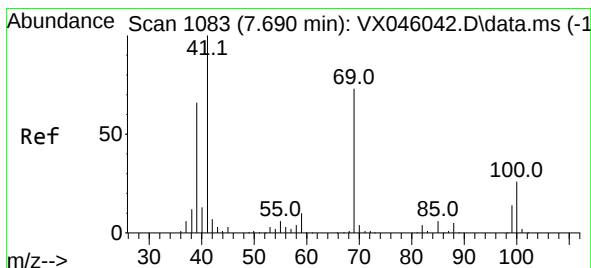
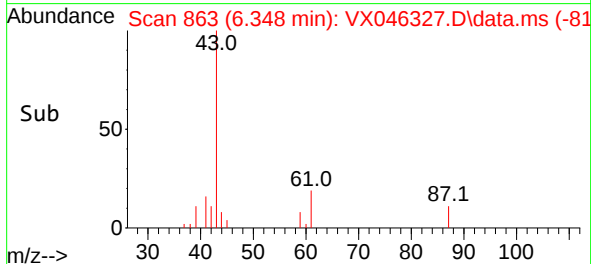
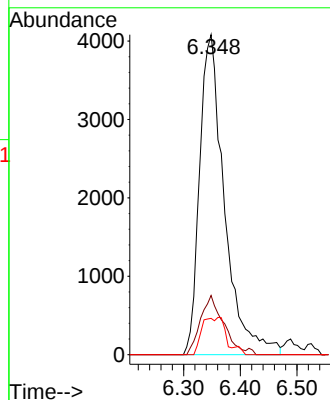
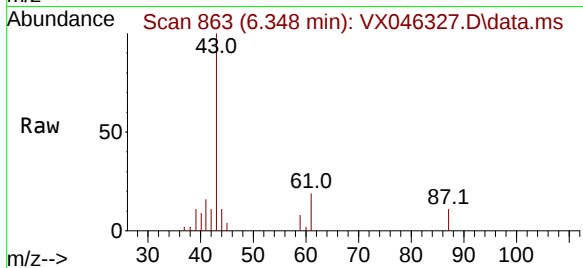
Tgt Ion: 43 Resp: 12444

Ion Ratio Lower Upper

43 100

61 17.4 14.3 21.5

87 11.5 9.5 14.3



#48

Methyl methacrylate

Concen: 44.158 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.103 min

Lab File: VX046327.D

Acq: 22 May 2025 14:20

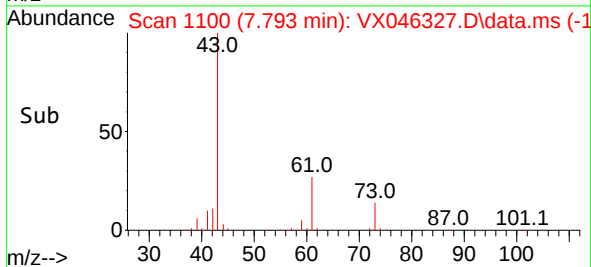
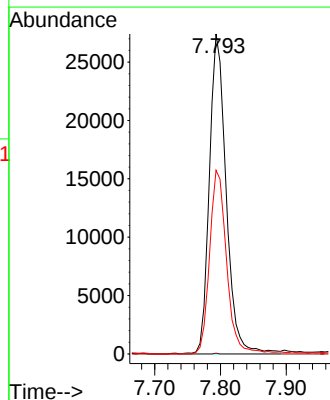
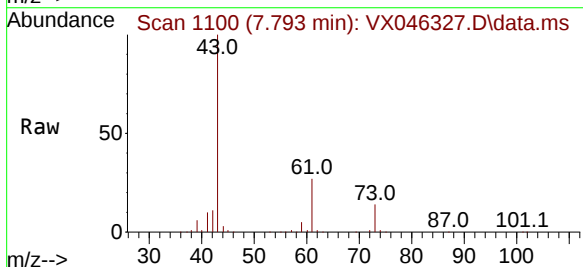
Tgt Ion: 41 Resp: 48721

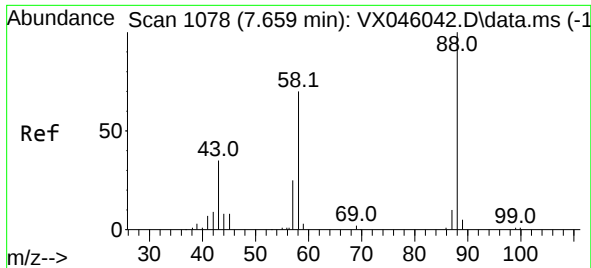
Ion Ratio Lower Upper

41 100

69 0.1 58.5 87.7#

39 58.4 51.7 77.5

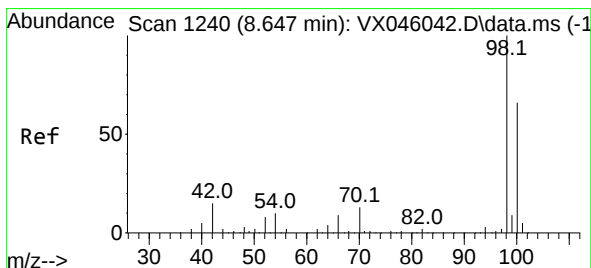
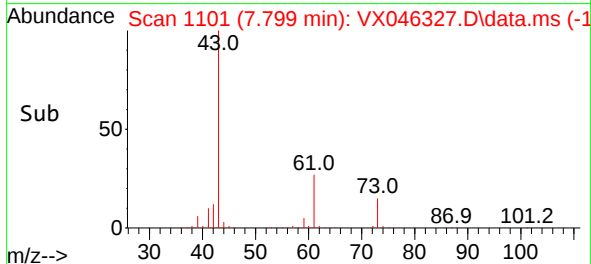
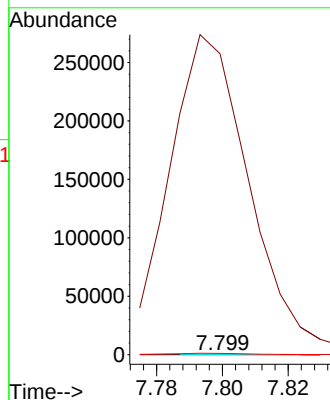
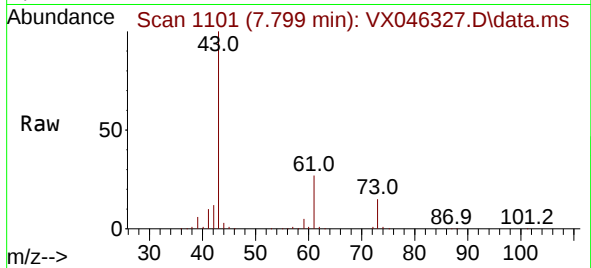




#49
1,4-Dioxane
Concen: 2.291 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.140 min
Lab File: VX046327.D
Acq: 22 May 2025 14:20

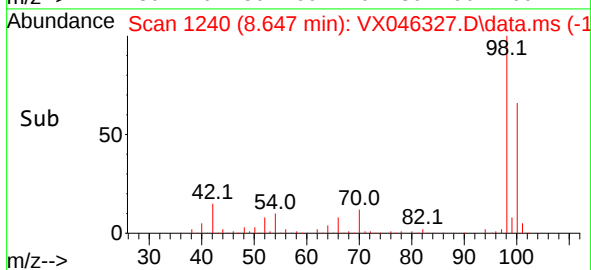
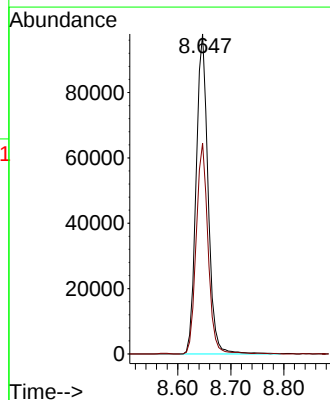
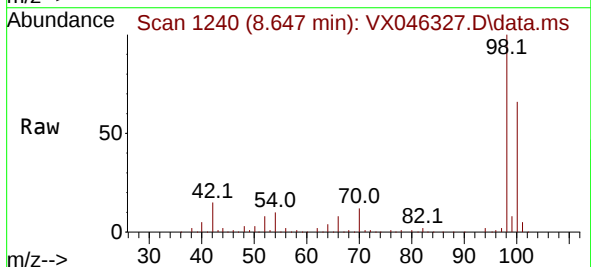
Instrument :
MSVOA_X
ClientSampleId :
RT-3888

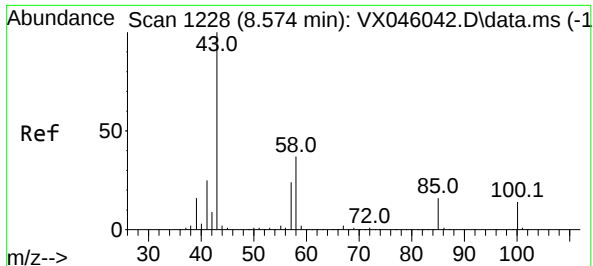
Tgt Ion: 88 Resp: 48
Ion Ratio Lower Upper
88 100
43 1000558.3 33.4 50.2#
58 4291.7 58.6 88.0#



#50
Toluene-d8
Concen: 51.791 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046327.D
Acq: 22 May 2025 14:20

Tgt Ion: 98 Resp: 152918
Ion Ratio Lower Upper
98 100
100 65.3 53.5 80.3

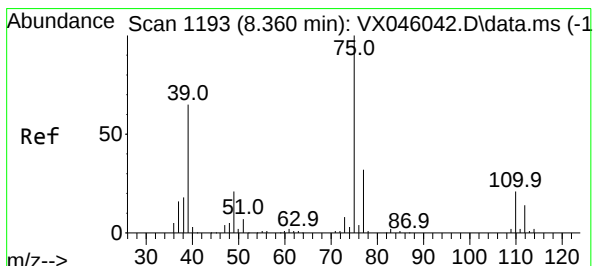
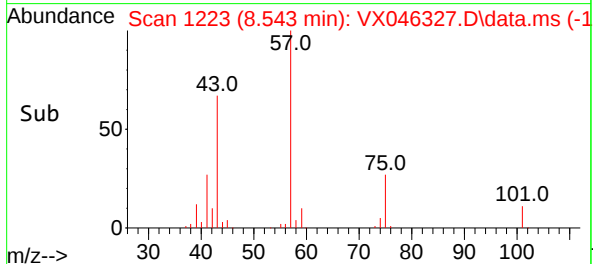
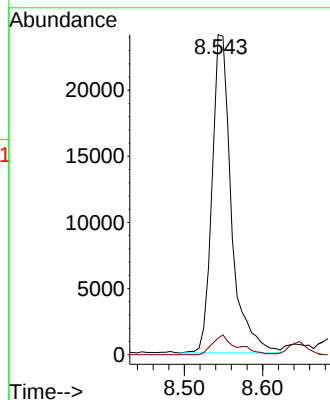
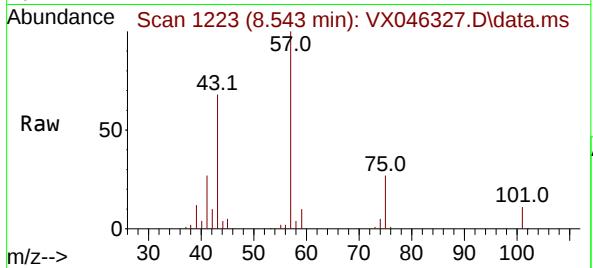




#51
4-Methyl-2-Pentanone
Concen: 28.775 ug/l
RT: 8.543 min Scan# 11
Delta R.T. -0.031 min
Lab File: VX046327.D
Acq: 22 May 2025 14:20

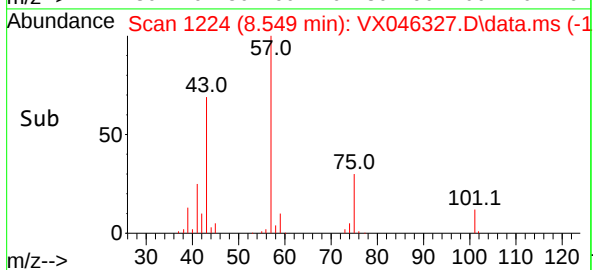
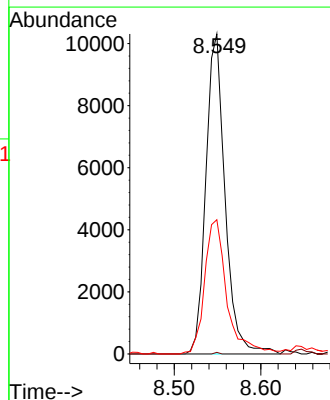
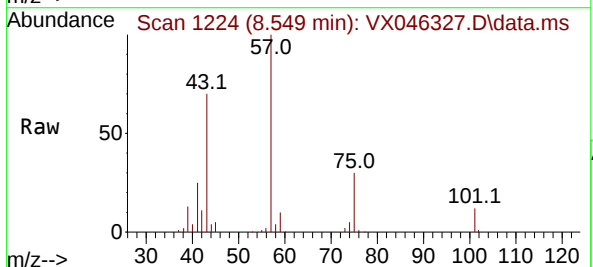
Instrument :
MSVOA_X
ClientSampleId :
RT-3888

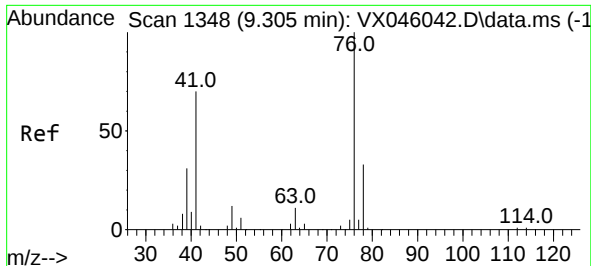
Tgt Ion: 43 Resp: 41264
Ion Ratio Lower Upper
43 100
58 7.8 28.9 43.3#



#54
cis-1,3-Dichloropropene
Concen: 12.423 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. 0.189 min
Lab File: VX046327.D
Acq: 22 May 2025 14:20

Tgt Ion: 75 Resp: 15827
Ion Ratio Lower Upper
75 100
77 0.5 25.4 38.0#
39 42.0 52.2 78.4#





#57

1,3-Dichloropropane

Concen: 1.135 ug/l

RT: 9.476 min Scan# 1

Delta R.T. 0.171 min

Lab File: VX046327.D

Acq: 22 May 2025 14:20

Instrument :

MSVOA_X

ClientSampleId :

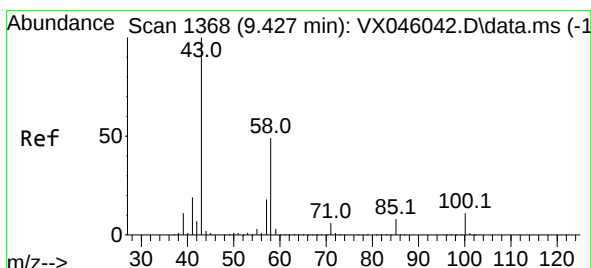
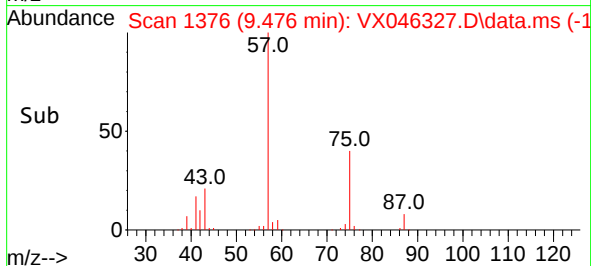
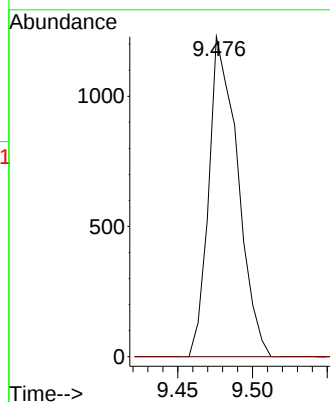
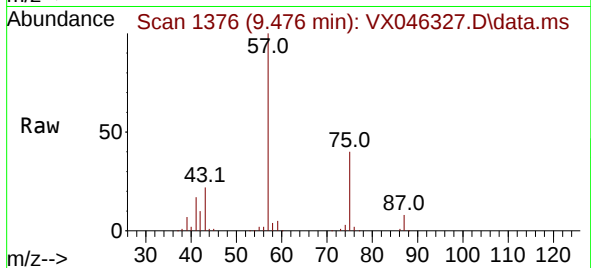
RT-3888

Tgt Ion: 76 Resp: 1655

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#



#59

2-Hexanone

Concen: 12.563 ug/l

RT: 9.378 min Scan# 1360

Delta R.T. -0.049 min

Lab File: VX046327.D

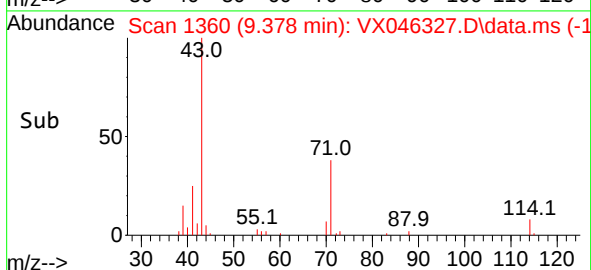
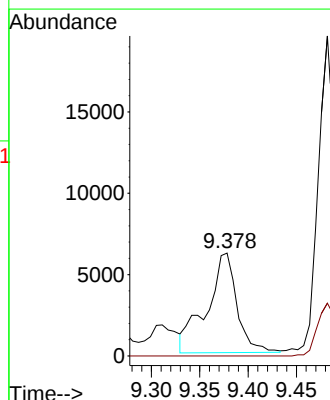
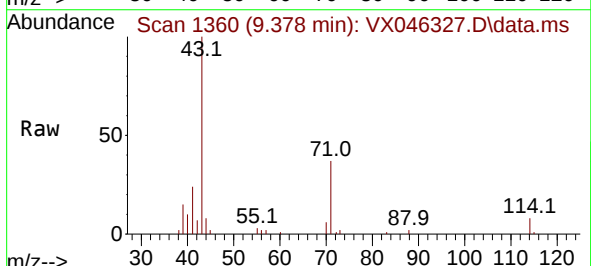
Acq: 22 May 2025 14:20

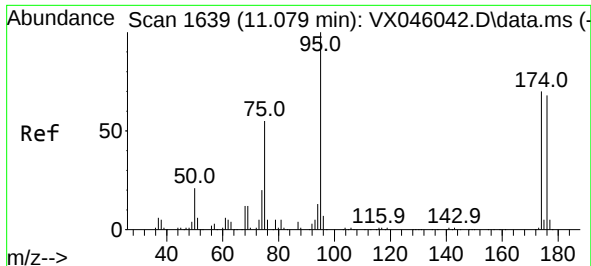
Tgt Ion: 43 Resp: 13329

Ion Ratio Lower Upper

43 100

58 0.0 24.9 74.6#

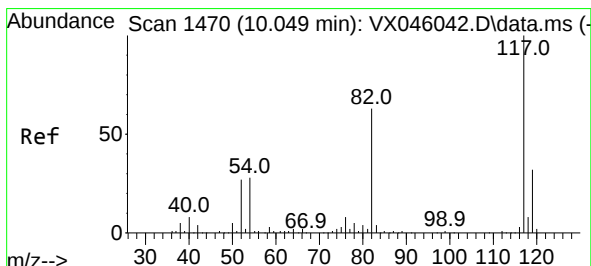
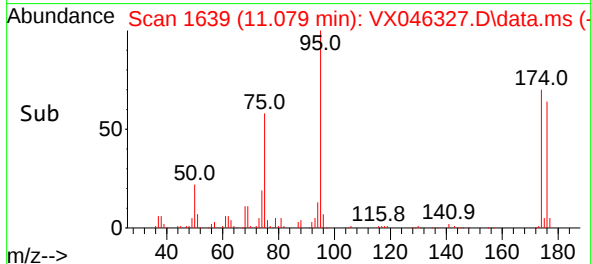
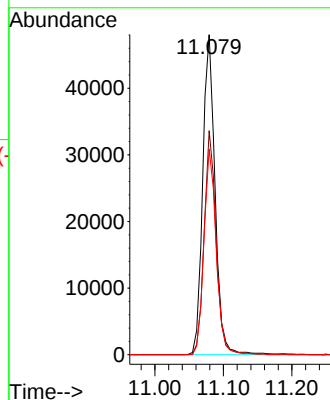
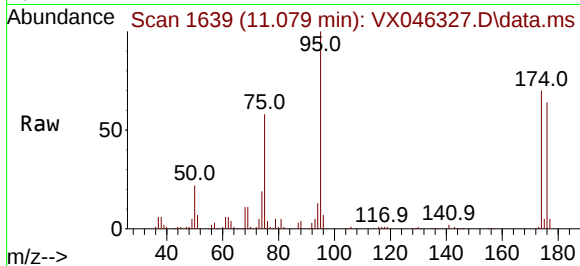




#62
4-Bromofluorobenzene
Concen: 53.323 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046327.D
Acq: 22 May 2025 14:20

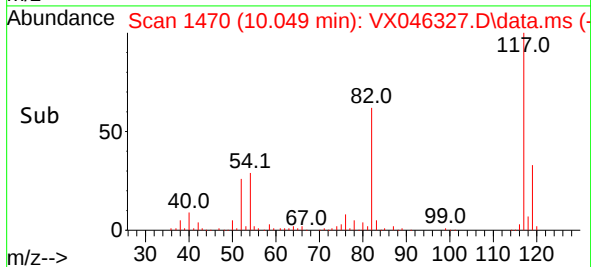
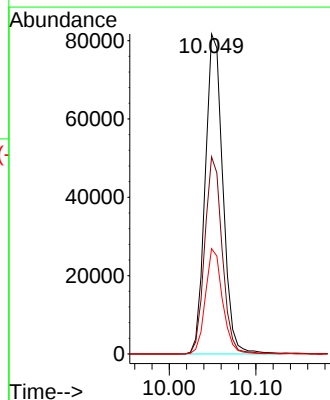
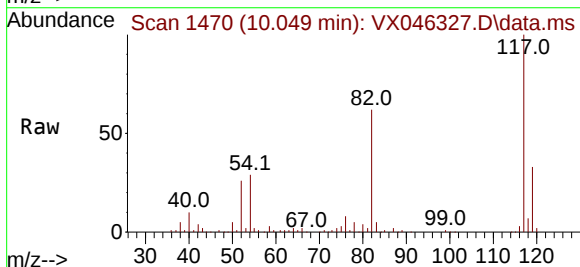
Instrument :
MSVOA_X
ClientSampleId :
RT-3888

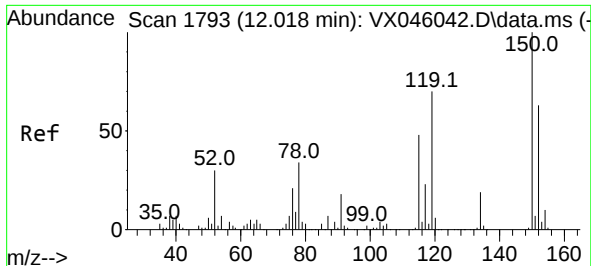
Tgt Ion: 95 Resp: 60393
Ion Ratio Lower Upper
95 100
174 67.8 0.0 135.8
176 64.1 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX046327.D
Acq: 22 May 2025 14:20

Tgt Ion: 117 Resp: 115533
Ion Ratio Lower Upper
117 100
82 61.6 50.6 76.0
119 32.9 25.8 38.6

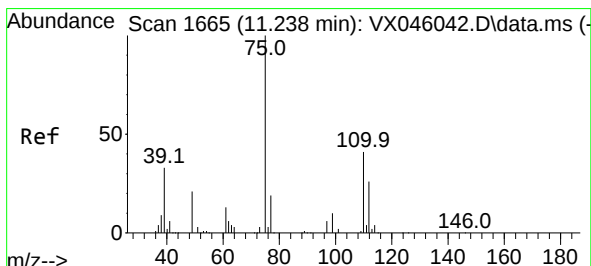
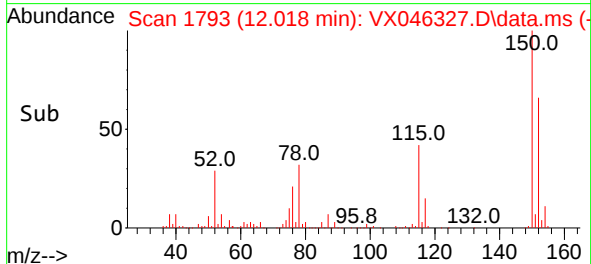
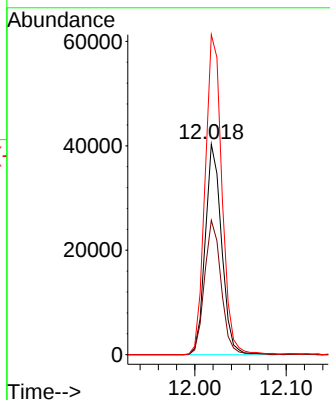
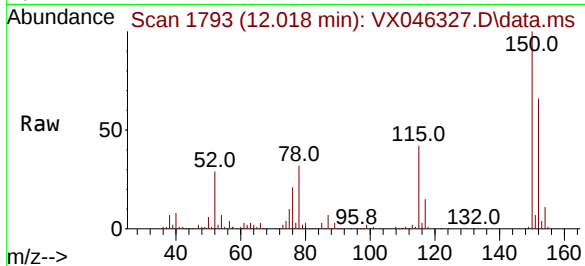




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.018 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX046327.D
 Acq: 22 May 2025 14:20

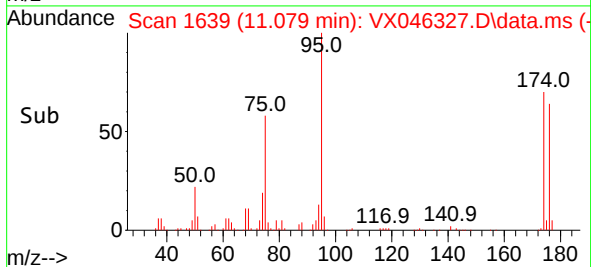
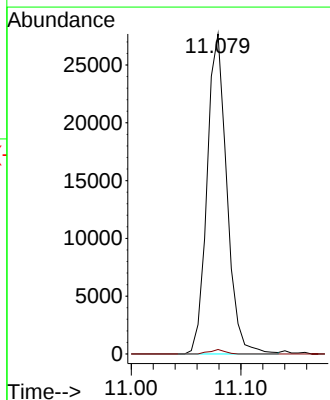
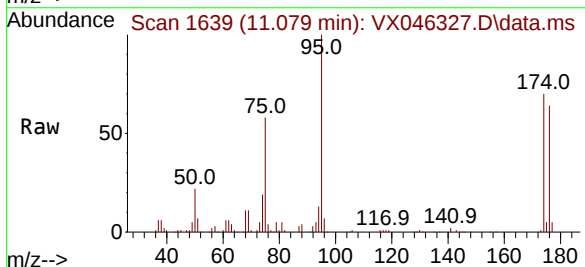
Instrument :
 MSVOA_X
 ClientSampleId :
 RT-3888

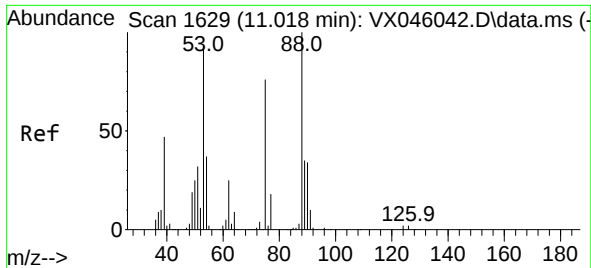
Tgt Ion:152 Resp: 49951
 Ion Ratio Lower Upper
 152 100
 115 65.1 46.9 140.7
 150 156.7 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 28.856 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.159 min
 Lab File: VX046327.D
 Acq: 22 May 2025 14:20

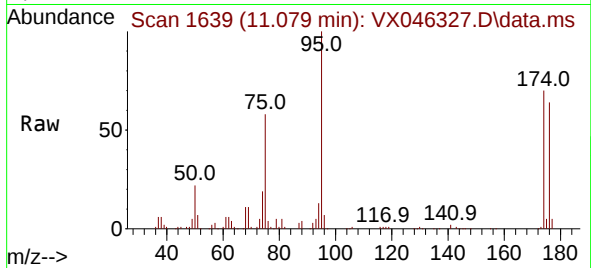
Tgt Ion: 75 Resp: 34695
 Ion Ratio Lower Upper
 75 100
 77 1.1 20.5 61.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 93.946 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX046327.D
 Acq: 22 May 2025 14:20

Instrument :
 MSVOA_X
 ClientSampleId :
 RT-3888



Tgt Ion: 75 Resp: 34695
 Ion Ratio Lower Upper
 75 100
 53 0.0 100.5 150.7#
 89 0.0 37.0 55.6#

