

Data Path : Z:\voasrv\HPCHEM1\MSVOA_R\Data\VR080725\
 Data File : VR026724.D
 Acq On : 7 Aug 2025 13:34
 Operator : SY/MD
 Sample : VR0807MBL01
 Misc : 5.00g/5.0mL/100uL/5mL/MSVOA_R/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 VR0807MBL01

Quant Time: Aug 08 01:38:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_R\methods\82R080425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 05 02:27:49 2025
 Response via : Initial Calibration

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

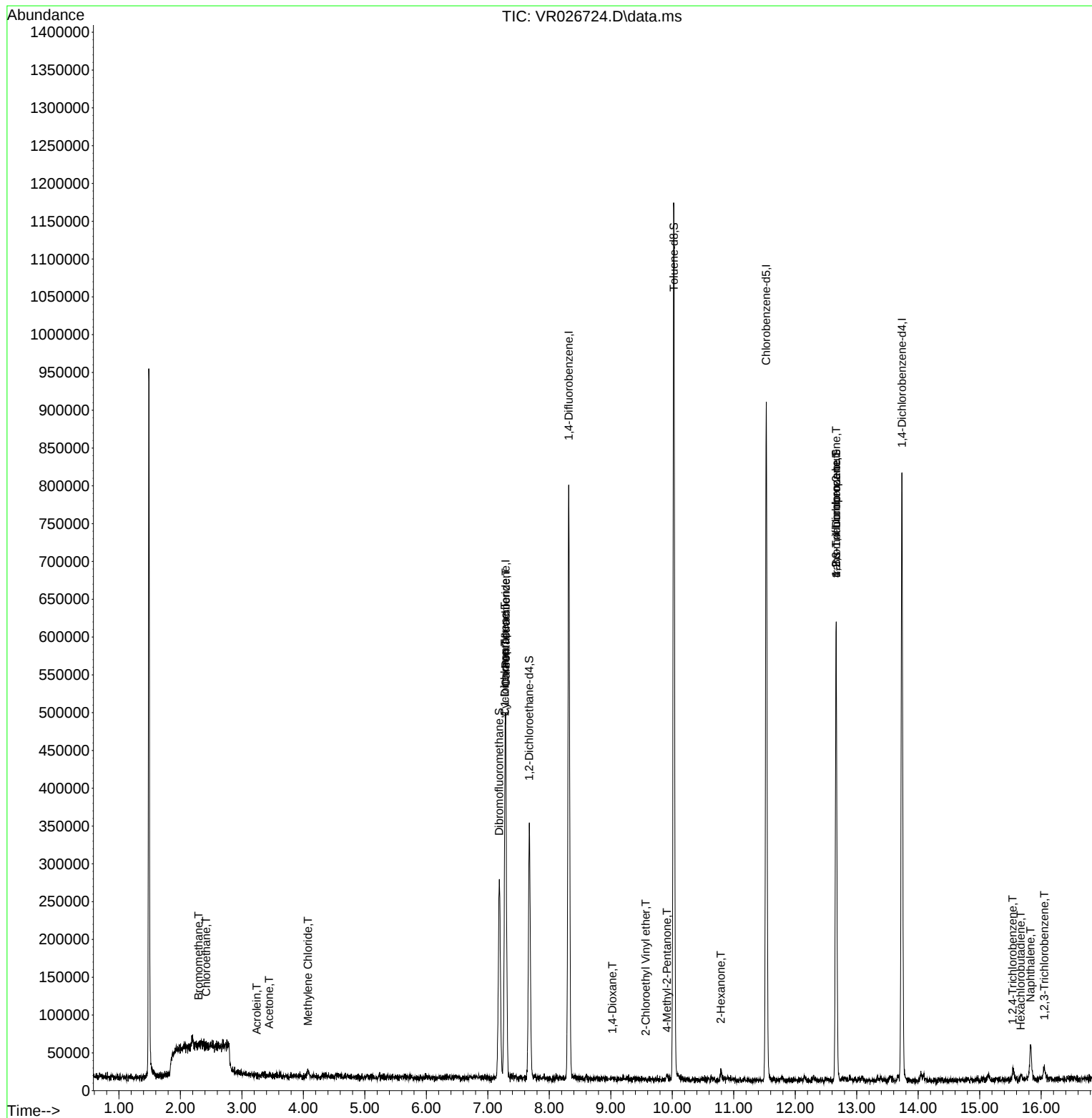
Internal Standards						
1) Pentafluorobenzene	7.288	168	385989	50.000	ug/l	-0.02
33) 1,4-Difluorobenzene	8.315	114	686715	50.000	ug/l	-0.02
62) Chlorobenzene-d5	11.527	117	540477	50.000	ug/l	-0.02
71) 1,4-Dichlorobenzene-d4	13.738	152	248073	50.000	ug/l	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.673	65	233387	47.773	ug/l	-0.02
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.540%
34) Dibromofluoromethane	7.186	113	193304	45.511	ug/l	-0.02
Spiked Amount	50.000	Range	75 - 124	Recovery	=	91.020%
49) Toluene-d8	10.026	98	782353	51.414	ug/l	-0.01
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.820%
61) 4-Bromofluorobenzene	12.666	95	200885	46.414	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	92.820%
Target Compounds						
					Qvalue	
5) Bromomethane	2.295	94	573	0.275	ug/l #	69
6) Chloroethane	2.420	64	589	0.214	ug/l #	48
13) Acrolein	3.242	56	1266	1.133	ug/l #	28
16) Acetone	3.444	43	999	0.436	ug/l #	40
20) Methylene Chloride	4.073	84	3568	0.656	ug/l #	70
30) Cyclohexane	7.279	56	8086	1.045	ug/l #	63
35) 1,1-Dichloropropene	7.279	75	17091	3.190	ug/l #	52
37) Carbon Tetrachloride	7.292	117	36391	8.339	ug/l #	20
48) 1,4-Dioxane	9.024	88	191	2.627	ug/l #	56
50) 4-Methyl-2-Pentanone	9.913	43	3336	0.620	ug/l #	62
57) 2-Chloroethyl Vinyl ether	9.570	63	82	0.250	ug/l #	47
58) 2-Hexanone	10.789	43	5531	1.524	ug/l	87
75) 1,2,3-Trichloropropane	12.666	75	100827	24.520	ug/l #	100
80) trans-1,4-Dichloro-2-b...	12.666	75	100827	71.415	ug/l #	16
92) 1,2,4-Trichlorobenzene	15.535	180	1852	0.411	ug/l	83
93) Hexachlorobutadiene	15.667	225	822	0.562	ug/l	69
94) Naphthalene	15.827	128	50390	3.650	ug/l #	87
95) 1,2,3-Trichlorobenzene	16.052	180	7030	1.644	ug/l #	61

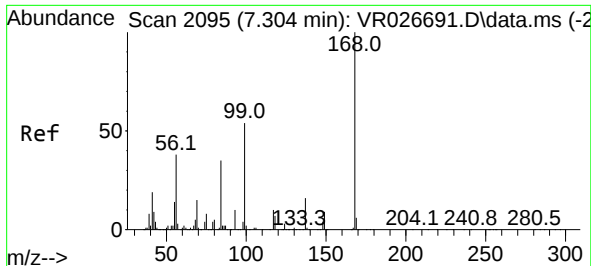
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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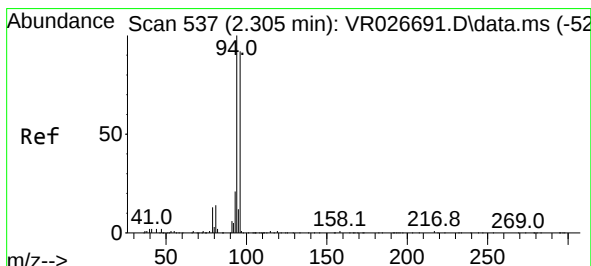
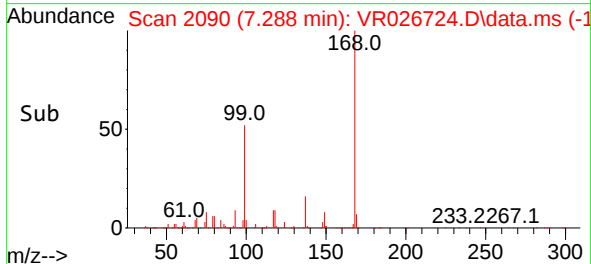
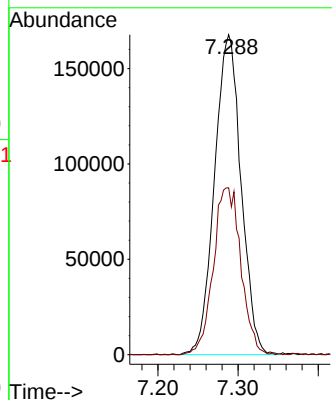
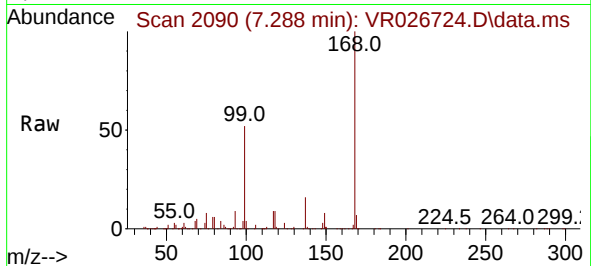




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.288 min Scan# 2095
Delta R.T. -0.016 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

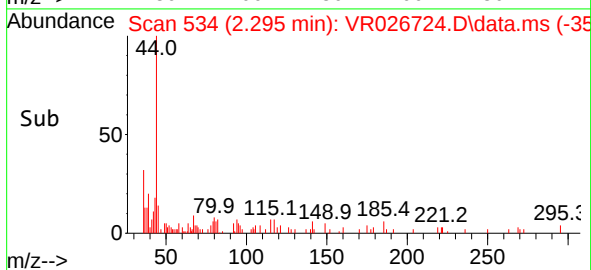
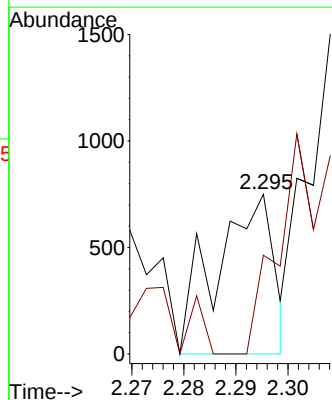
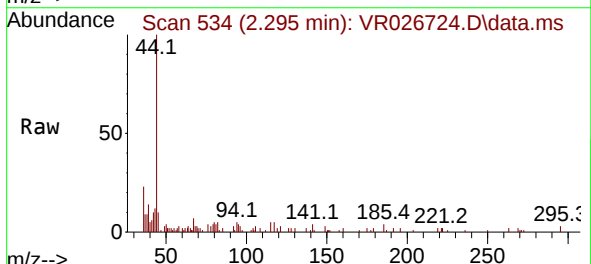
Instrument :
MSVOA_R
ClientSampleId :
VR0807MBL01

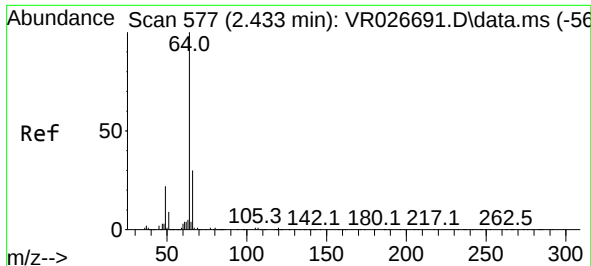
Tgt Ion:168 Resp: 385989
Ion Ratio Lower Upper
168 100
99 52.1 43.8 65.8



#5
Bromomethane
Concen: 0.275 ug/l
RT: 2.295 min Scan# 534
Delta R.T. -0.010 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

Tgt Ion: 94 Resp: 573
Ion Ratio Lower Upper
94 100
96 61.9 73.3 109.9#

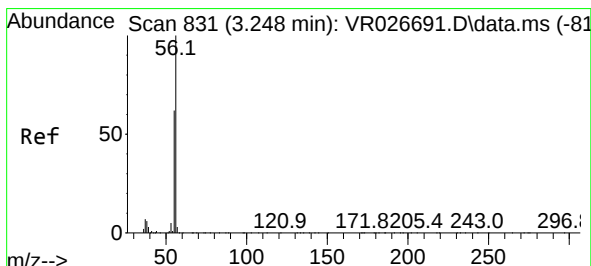
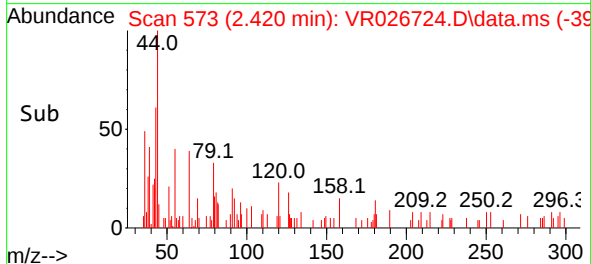
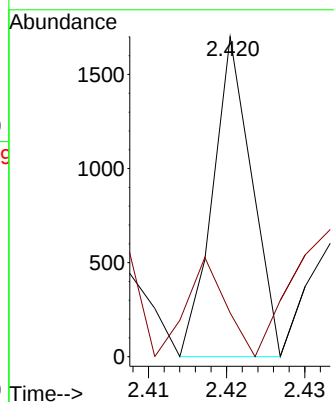
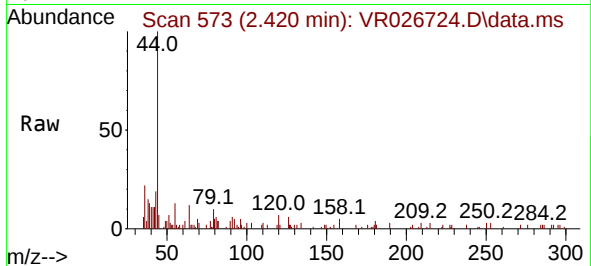




#6
Chloroethane
Concen: 0.214 ug/l
RT: 2.420 min Scan# 51
Delta R.T. -0.013 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

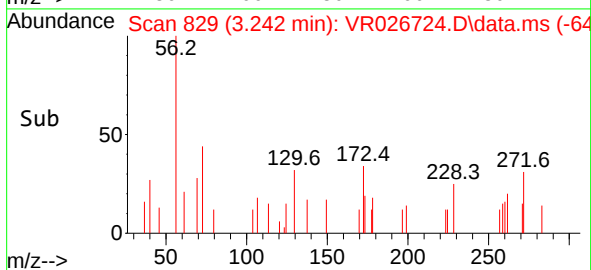
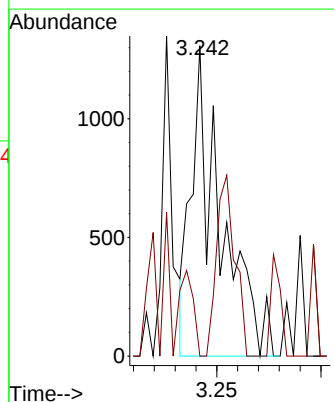
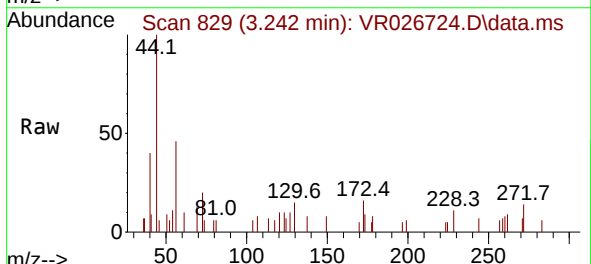
Instrument :
MSVOA_R
ClientSampleId :
VR0807MBL01

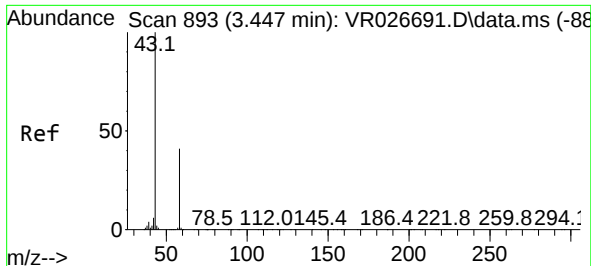
Tgt Ion: 64 Resp: 589
Ion Ratio Lower Upper
64 100
66 2.3 24.3 36.5#



#13
Acrolein
Concen: 1.133 ug/l
RT: 3.242 min Scan# 829
Delta R.T. -0.007 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

Tgt Ion: 56 Resp: 1266
Ion Ratio Lower Upper
56 100
55 9.2 53.8 80.8#

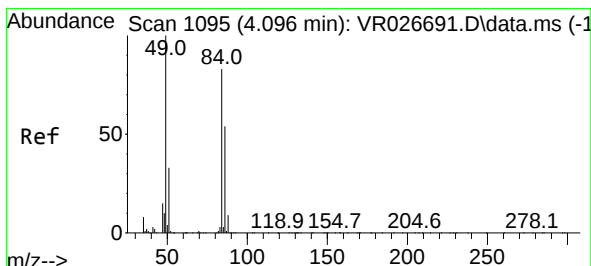
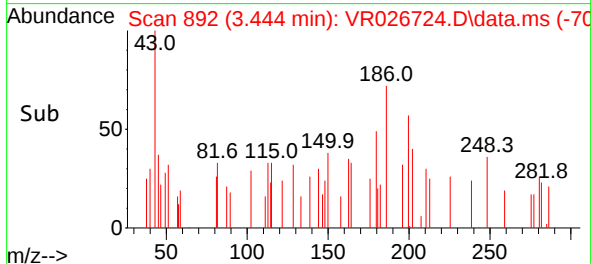
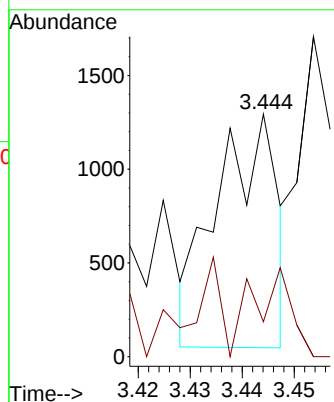
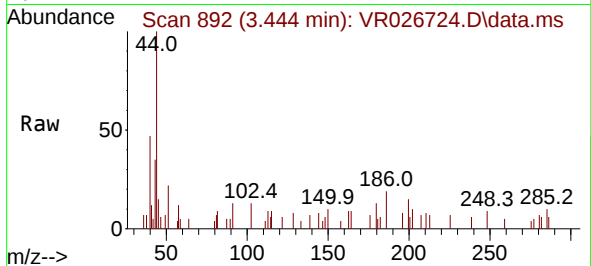




#16
Acetone
Concen: 0.436 ug/l
RT: 3.444 min Scan# 891
Delta R.T. -0.003 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

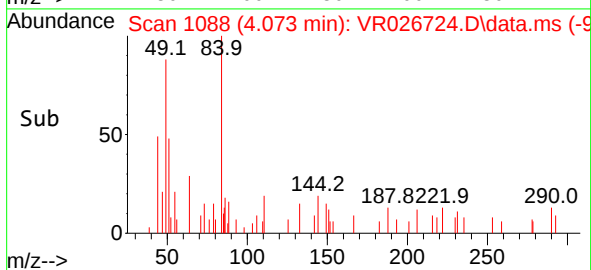
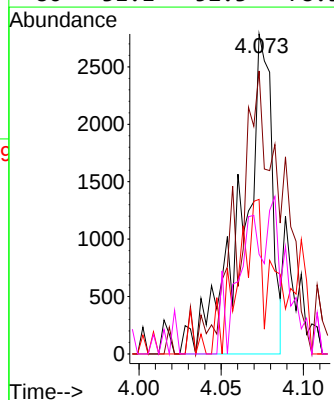
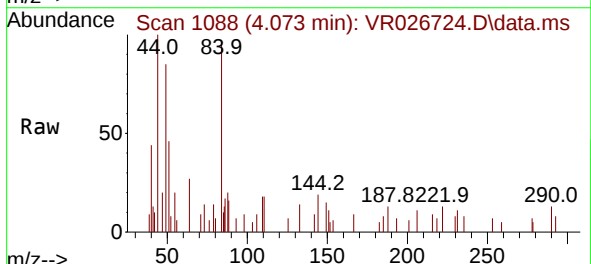
Instrument :
MSVOA_R
ClientSampleId :
VR0807MBL01

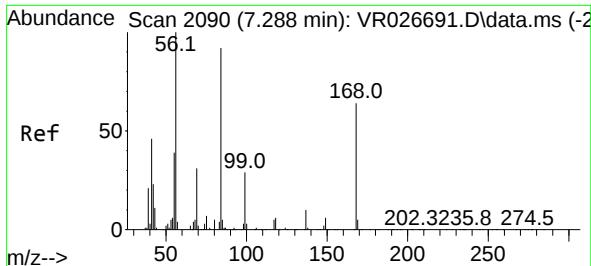
Tgt Ion: 43 Resp: 999
Ion Ratio Lower Upper
43 100
58 3.5 32.9 49.3#



#20
Methylene Chloride
Concen: 0.656 ug/l
RT: 4.073 min Scan# 1088
Delta R.T. -0.023 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

Tgt Ion: 84 Resp: 3568
Ion Ratio Lower Upper
84 100
49 88.4 96.2 144.4#
51 48.3 31.8 47.6#
86 31.1 52.3 78.5#

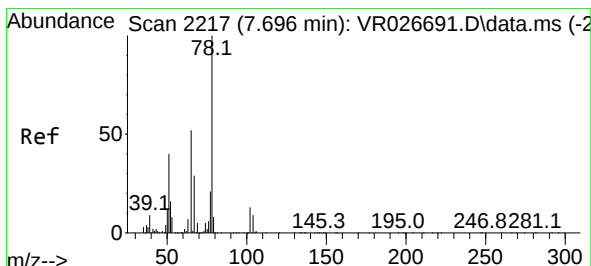
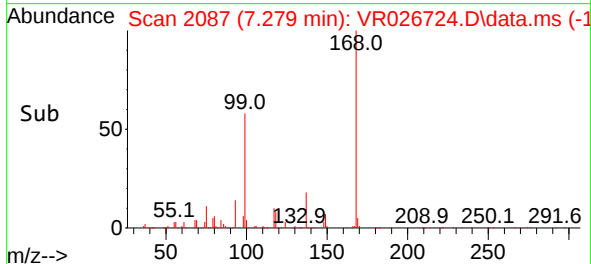
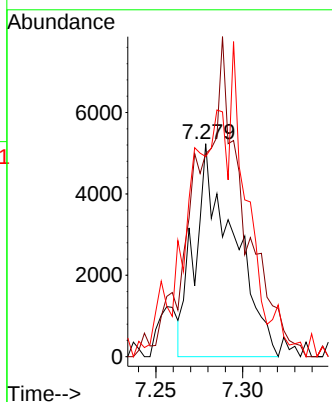
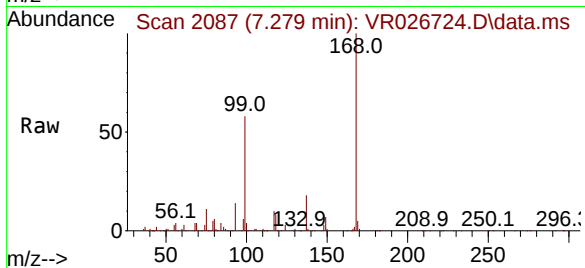




#30
Cyclohexane
Concen: 1.045 ug/l
RT: 7.279 min Scan# 2090
Delta R.T. -0.010 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

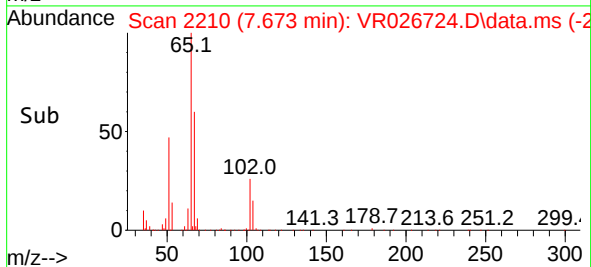
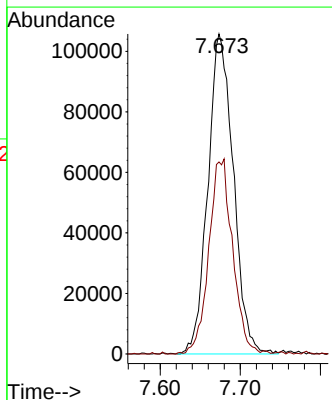
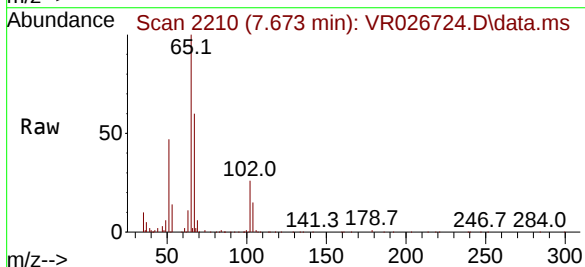
Instrument :
MSVOA_R
ClientSampleId :
VR0807MBL01

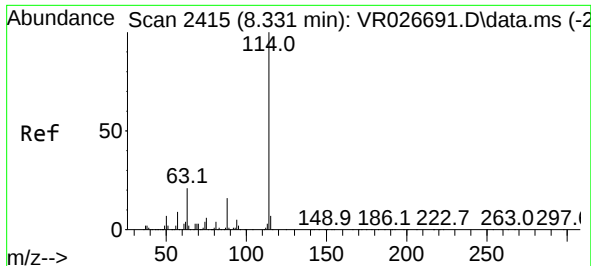
Tgt Ion: 56 Resp: 8086
Ion Ratio Lower Upper
56 100
69 73.5 24.8 37.2#
84 69.7 73.1 109.7#



#32
1,2-Dichloroethane-d4
Concen: 47.773 ug/l
RT: 7.673 min Scan# 2210
Delta R.T. -0.023 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

Tgt Ion: 65 Resp: 233387
Ion Ratio Lower Upper
65 100
67 56.9 0.0 118.4





#33

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.315 min Scan# 2415

Delta R.T. -0.016 min

Lab File: VR026724.D

Acq: 7 Aug 2025 13:34

Instrument :

MSVOA_R

ClientSampleId :

VR0807MBL01

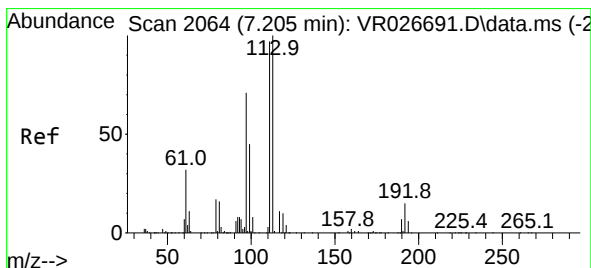
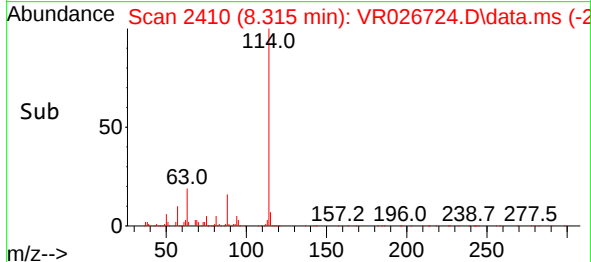
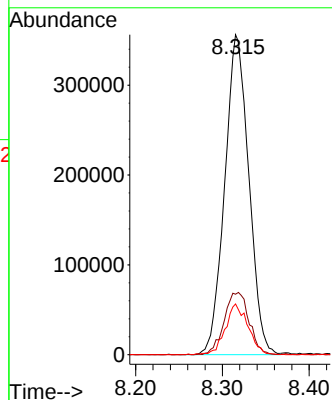
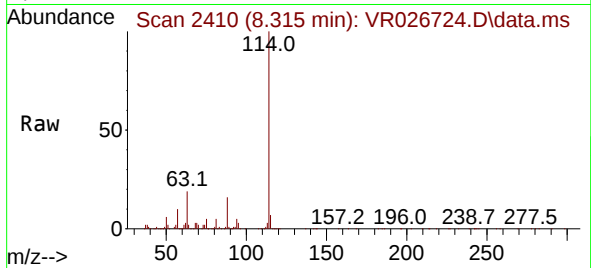
Tgt Ion:114 Resp: 686715

Ion Ratio Lower Upper

114 100

63 18.9 0.0 41.6

88 15.8 0.0 32.6



#34

Dibromofluoromethane

Concen: 45.511 ug/l

RT: 7.186 min Scan# 2058

Delta R.T. -0.019 min

Lab File: VR026724.D

Acq: 7 Aug 2025 13:34

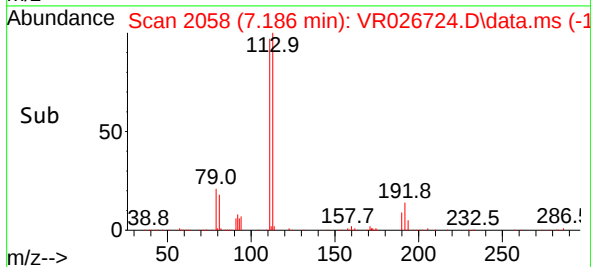
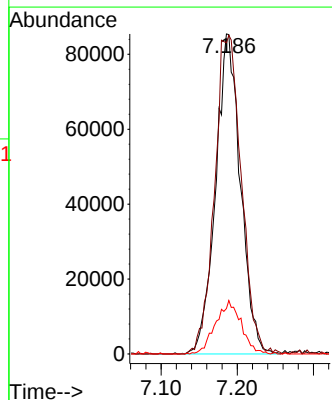
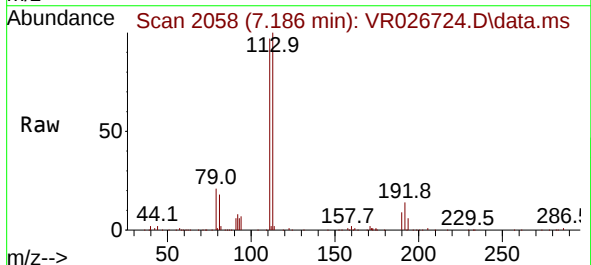
Tgt Ion:113 Resp: 193304

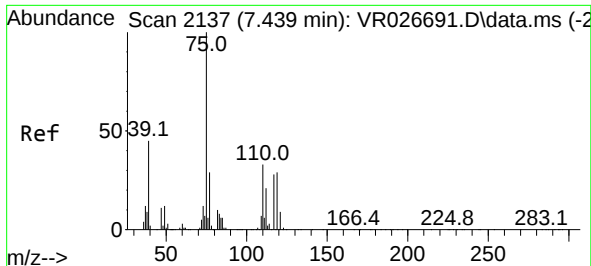
Ion Ratio Lower Upper

113 100

111 106.8 81.7 122.5

192 17.1 12.3 18.5

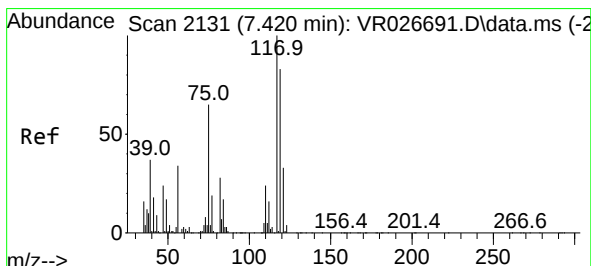
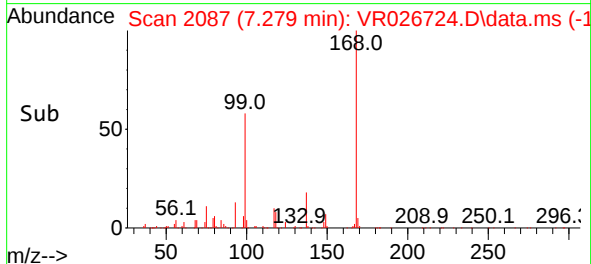
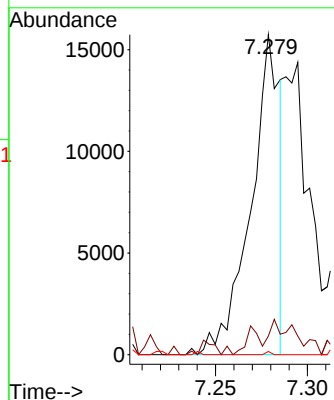
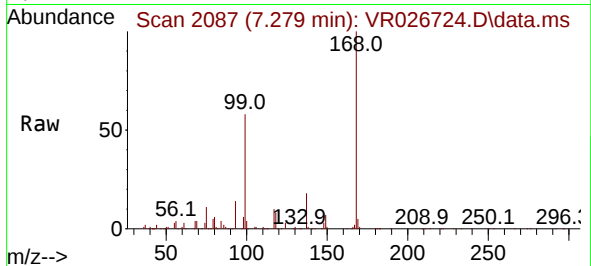




#35
 1,1-Dichloropropene
 Concen: 3.190 ug/l
 RT: 7.279 min Scan# 2087
 Delta R.T. -0.160 min
 Lab File: VR026724.D
 Acq: 7 Aug 2025 13:34

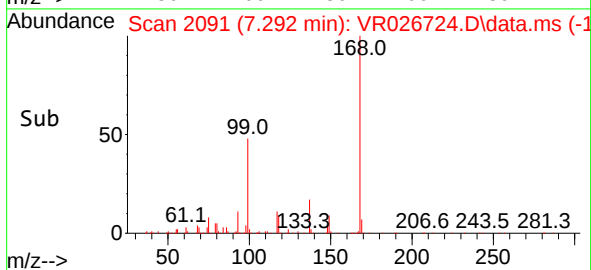
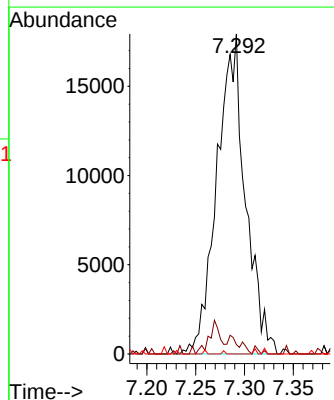
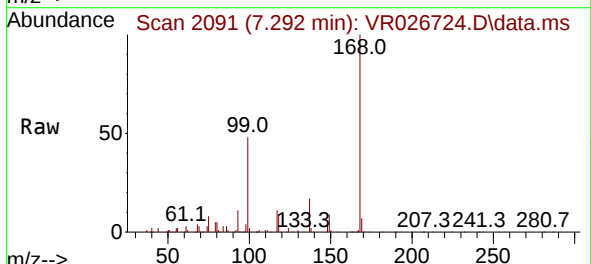
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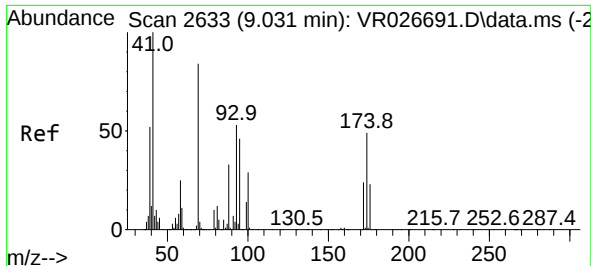
Tgt Ion: 75 Resp: 17091
 Ion Ratio Lower Upper
 75 100
 110 10.1 17.0 50.9#
 77 0.2 24.6 37.0#



#37
 Carbon Tetrachloride
 Concen: 8.339 ug/l
 RT: 7.292 min Scan# 2091
 Delta R.T. -0.128 min
 Lab File: VR026724.D
 Acq: 7 Aug 2025 13:34

Tgt Ion: 117 Resp: 36391
 Ion Ratio Lower Upper
 117 100
 119 3.0 67.0 100.4#
 121 0.0 26.3 39.5#

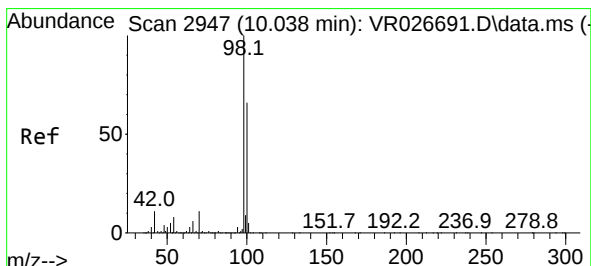
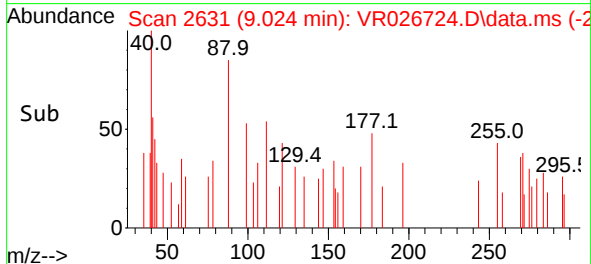
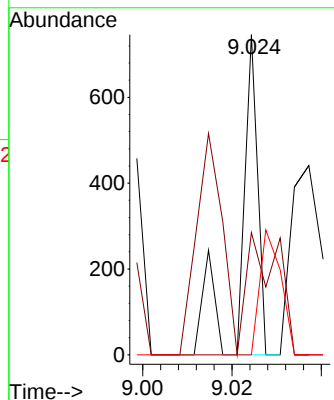
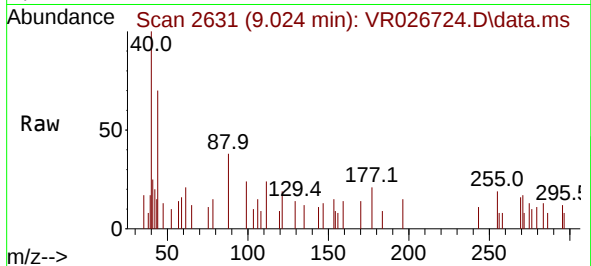




#48
1,4-Dioxane
Concen: 2.627 ug/l
RT: 9.024 min Scan# 2633
Delta R.T. -0.006 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

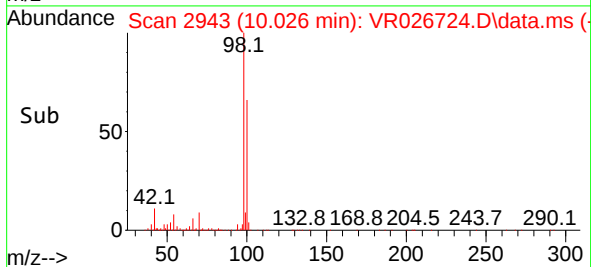
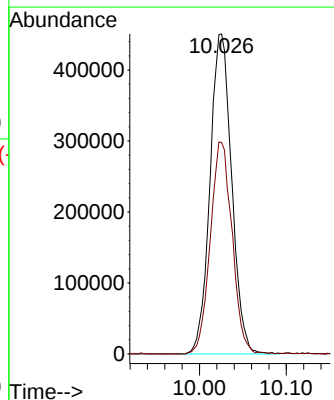
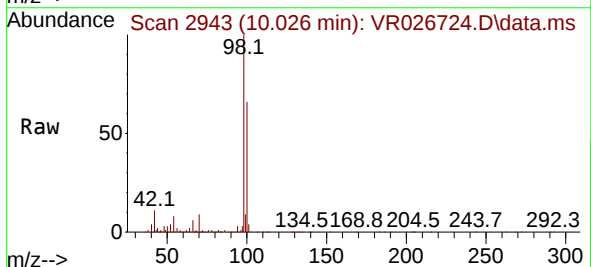
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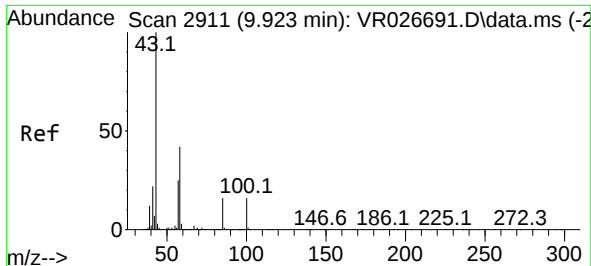
Tgt Ion: 88 Resp: 191
Ion Ratio Lower Upper
88 100
43 72.3 25.2 37.8#
58 49.2 60.8 91.2#



#49
Toluene-d8
Concen: 51.414 ug/l
RT: 10.026 min Scan# 2943
Delta R.T. -0.013 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

Tgt Ion: 98 Resp: 782353
Ion Ratio Lower Upper
98 100
100 66.6 53.9 80.9





#50

4-Methyl-2-Pentanone

Concen: 0.620 ug/l

RT: 9.913 min Scan# 2911

Delta R.T. -0.010 min

Lab File: VR026724.D

Acq: 7 Aug 2025 13:34

Instrument :

MSVOA_R

ClientSampleId :

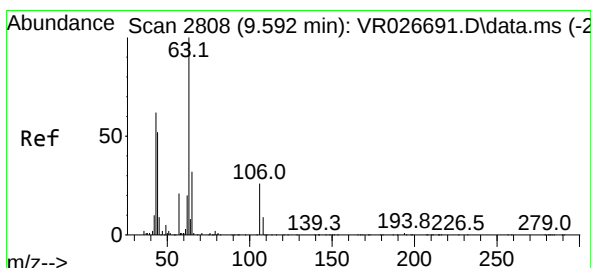
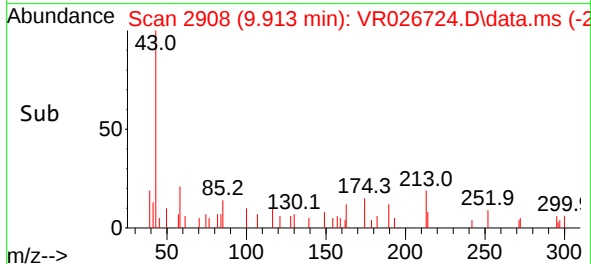
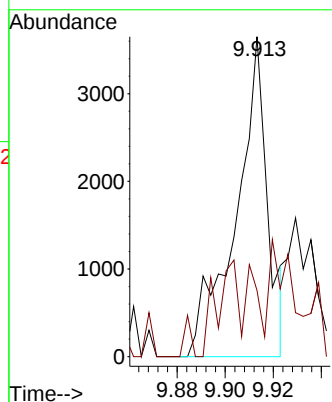
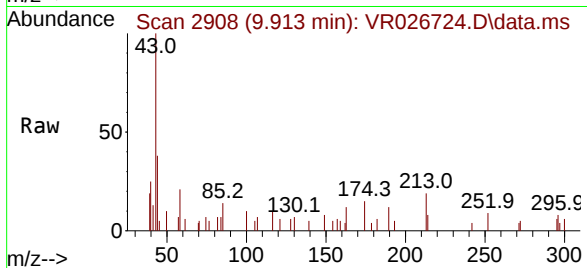
VR0807MBL01

Tgt Ion: 43 Resp: 3336

Ion Ratio Lower Upper

43 100

58 17.9 33.7 50.5#



#57

2-Chloroethyl Vinyl ether

Concen: 0.250 ug/l

RT: 9.570 min Scan# 2801

Delta R.T. -0.023 min

Lab File: VR026724.D

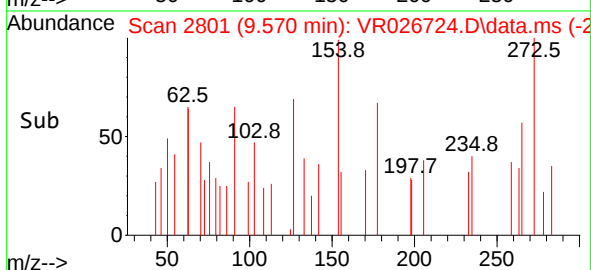
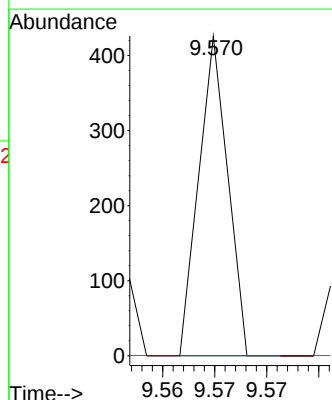
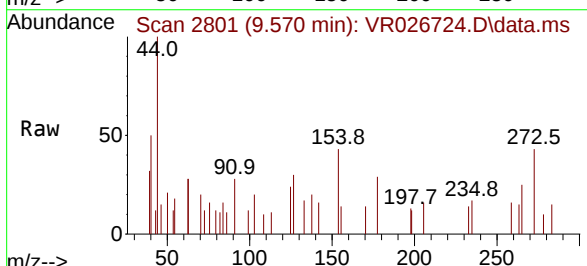
Acq: 7 Aug 2025 13:34

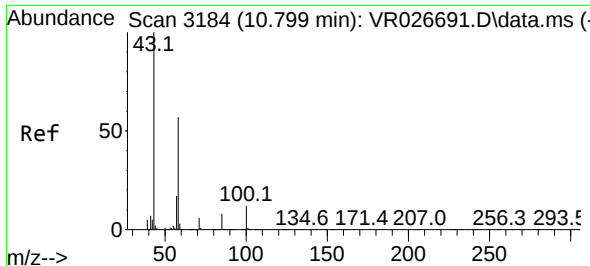
Tgt Ion: 63 Resp: 82

Ion Ratio Lower Upper

63 100

106 0.0 22.5 33.7#

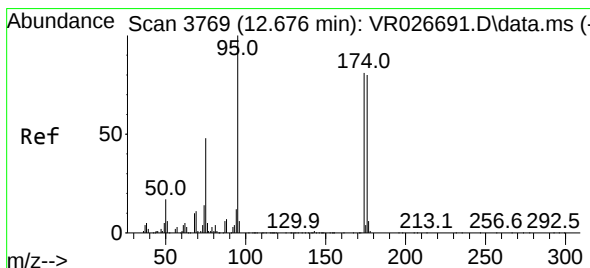
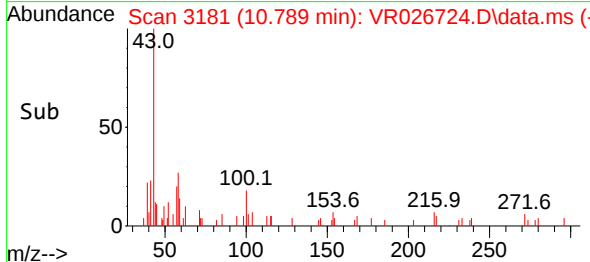
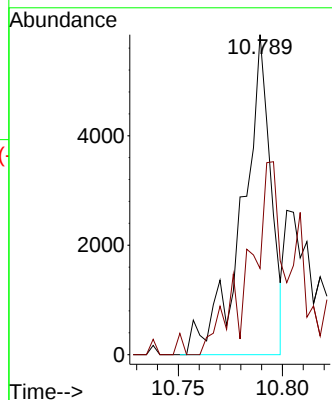
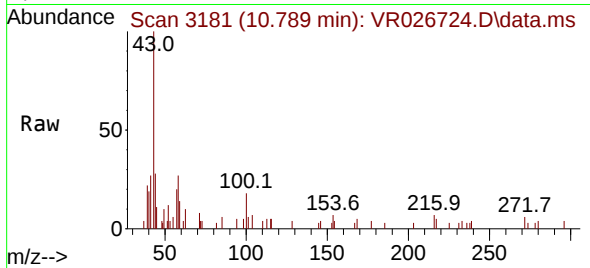




#58
2-Hexanone
Concen: 1.524 ug/l
RT: 10.789 min Scan# 3184
Delta R.T. -0.010 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

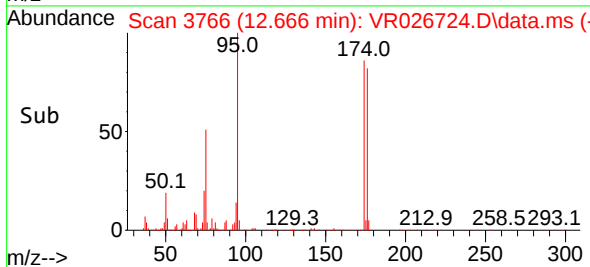
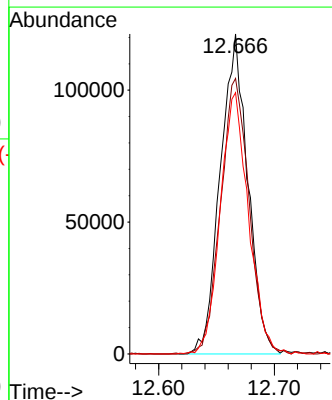
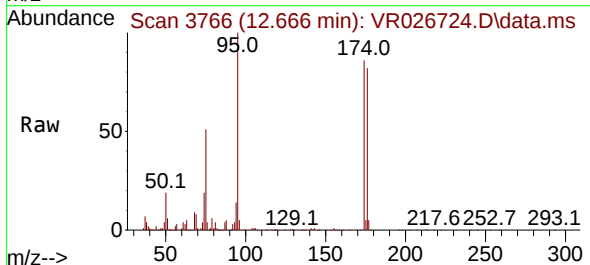
Instrument :
MSVOA_R
ClientSampleId :
VR0807MBL01

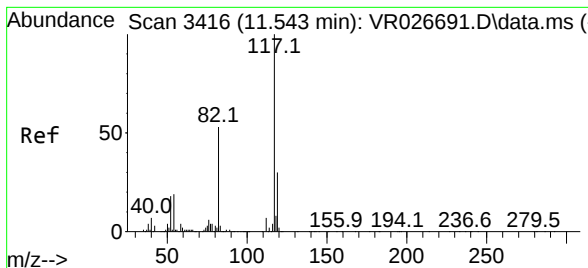
Tgt Ion: 43 Resp: 5531
Ion Ratio Lower Upper
43 100
58 66.9 28.8 86.4



#61
4-Bromofluorobenzene
Concen: 46.414 ug/l
RT: 12.666 min Scan# 3766
Delta R.T. -0.010 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

Tgt Ion: 95 Resp: 200885
Ion Ratio Lower Upper
95 100
174 88.5 0.0 158.4
176 83.4 0.0 149.0

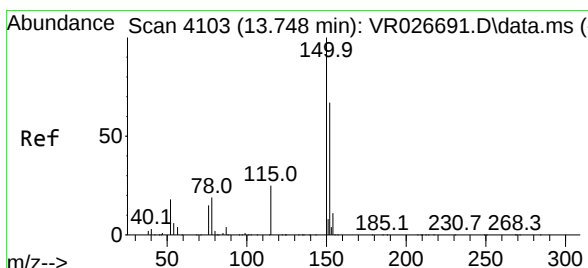
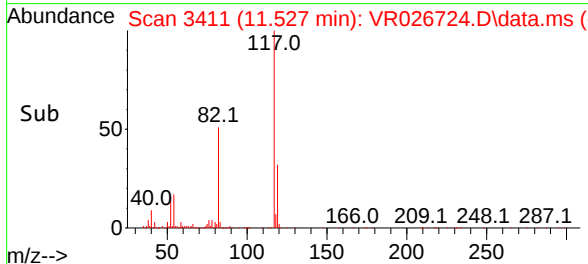
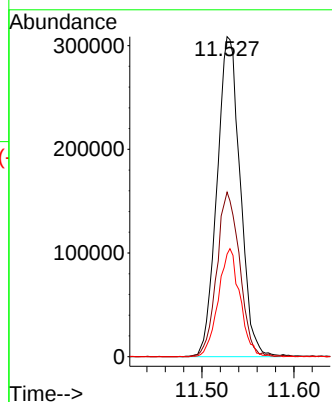
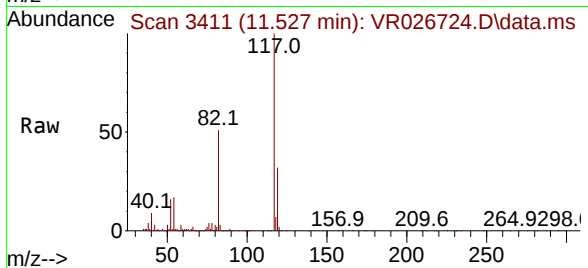




#62
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.527 min Scan# 3411
Delta R.T. -0.016 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

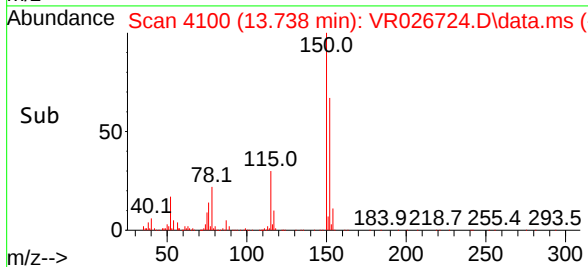
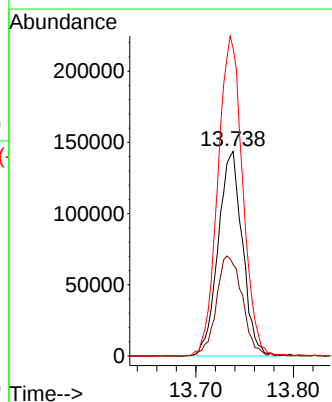
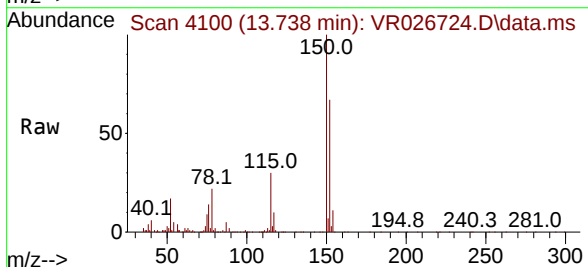
Instrument :
MSVOA_R
ClientSampleId :
VR0807MBL01

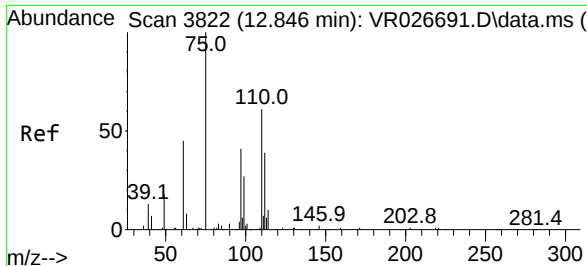
Tgt Ion:117 Resp: 540477
Ion Ratio Lower Upper
117 100
82 51.3 42.0 63.0
119 31.9 23.9 35.9



#71
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.738 min Scan# 4100
Delta R.T. -0.010 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

Tgt Ion:152 Resp: 248073
Ion Ratio Lower Upper
152 100
115 52.1 27.8 83.4
150 160.4 0.0 350.4

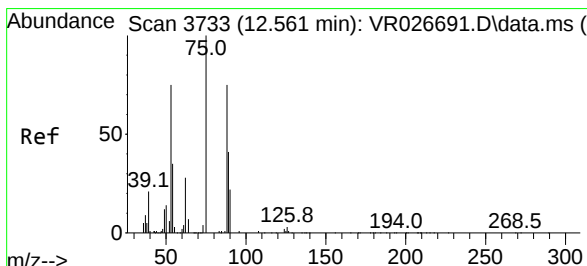
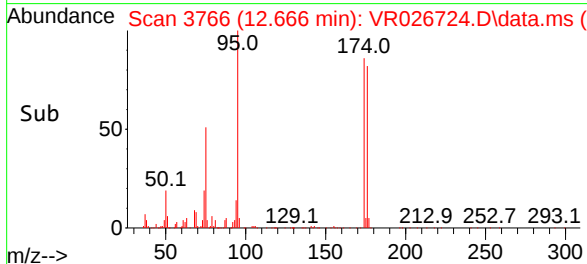
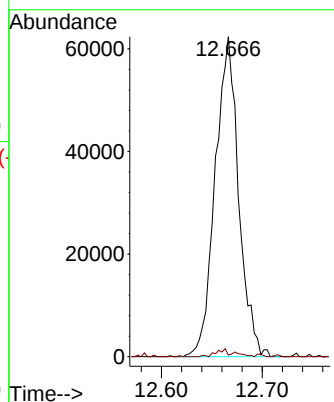
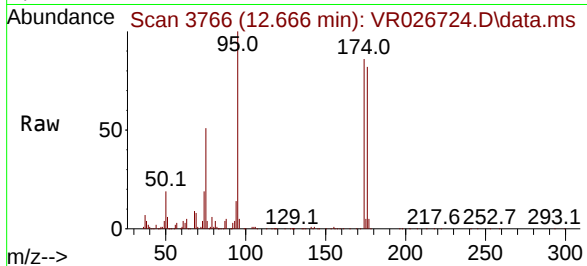




#75
1,2,3-Trichloropropane
Concen: 24.520 ug/l
RT: 12.666 min Scan# 3766
Delta R.T. -0.180 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

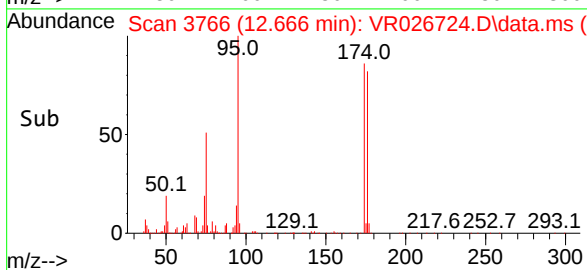
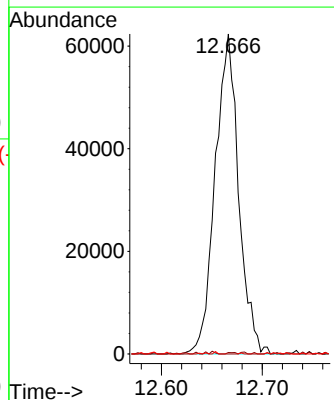
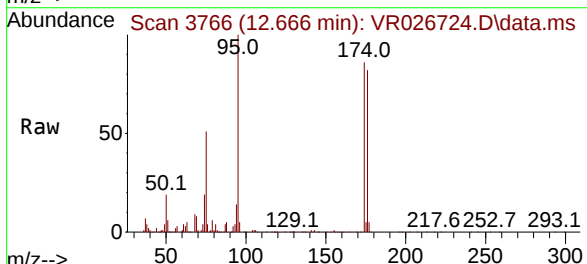
Instrument :
MSVOA_R
ClientSampleId :
VR0807MBL01

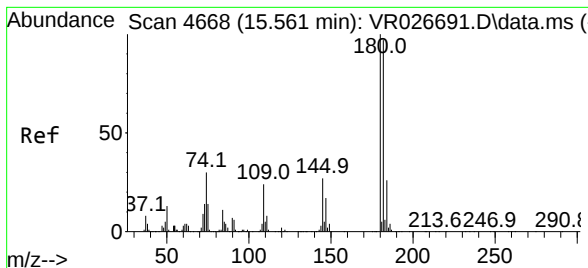
Tgt Ion: 75 Resp: 100827
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



#80
trans-1,4-Dichloro-2-butene
Concen: 71.415 ug/l
RT: 12.666 min Scan# 3766
Delta R.T. 0.106 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

Tgt Ion: 75 Resp: 100827
Ion Ratio Lower Upper
75 100
53 0.2 67.8 101.6#
89 0.0 34.6 52.0#

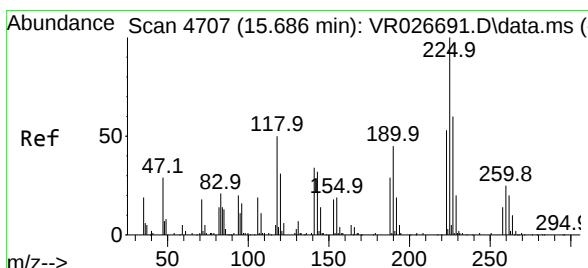
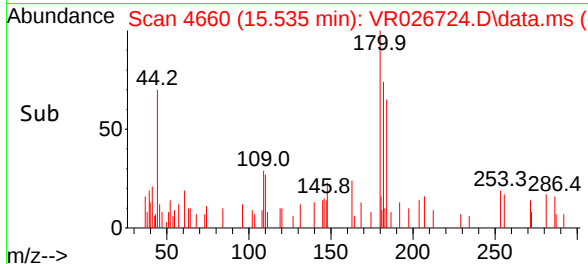
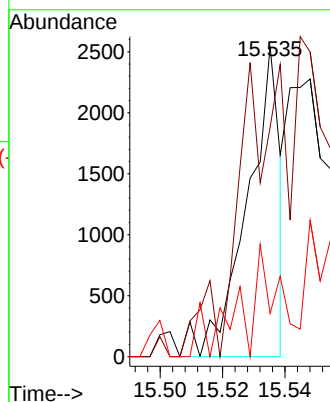
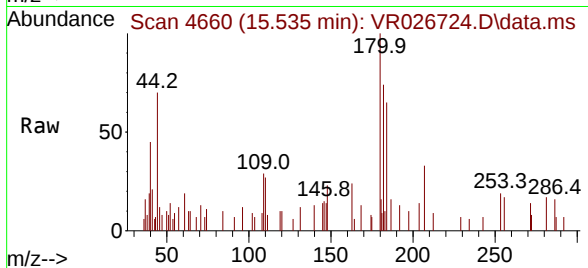




#92
1,2,4-Trichlorobenzene
Concen: 0.411 ug/l
RT: 15.535 min Scan# 4660
Delta R.T. -0.026 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

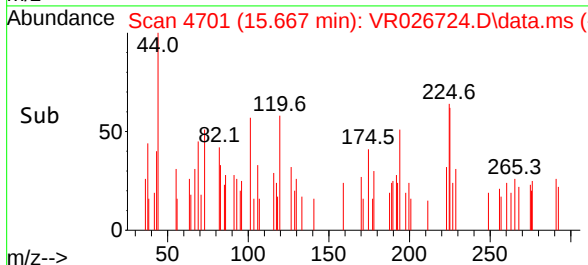
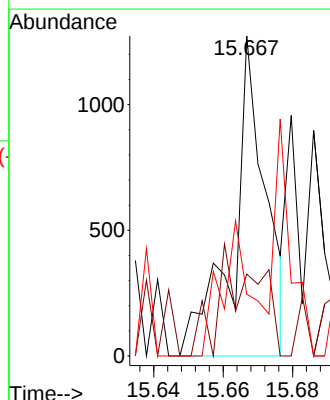
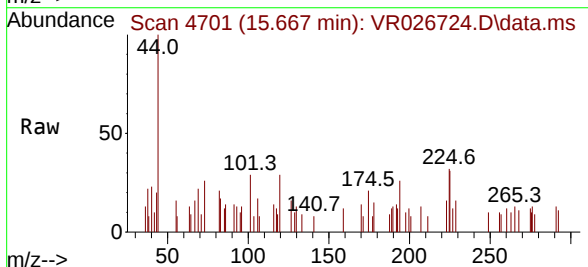
Instrument :
MSVOA_R
ClientSampleId :
VR0807MBL01

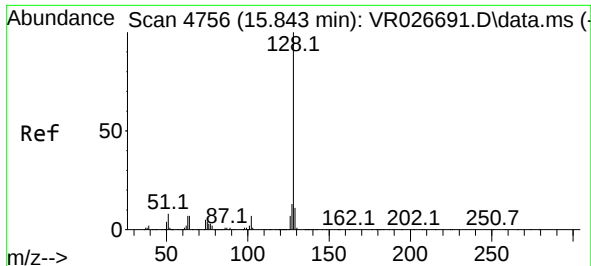
Tgt Ion:180 Resp: 1852
Ion Ratio Lower Upper
180 100
182 76.3 47.0 141.0
145 37.7 15.2 45.5



#93
Hexachlorobutadiene
Concen: 0.562 ug/l
RT: 15.667 min Scan# 4701
Delta R.T. -0.019 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

Tgt Ion:225 Resp: 822
Ion Ratio Lower Upper
225 100
223 42.1 31.4 94.2
227 35.8 31.6 95.0

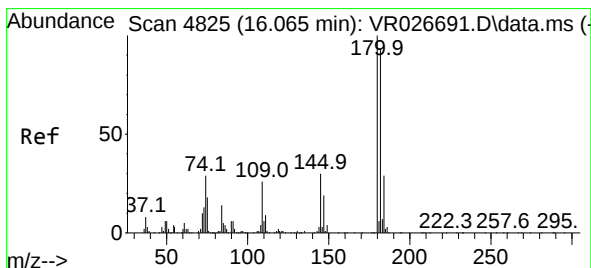
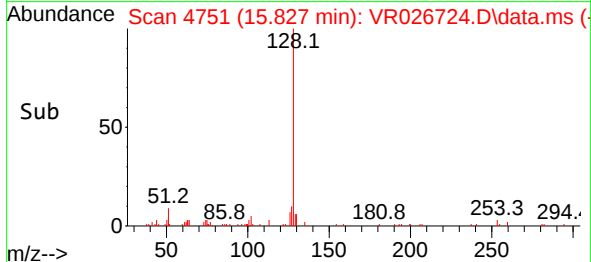
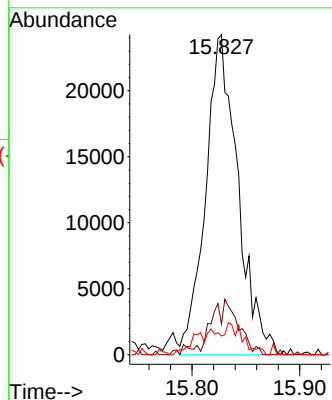
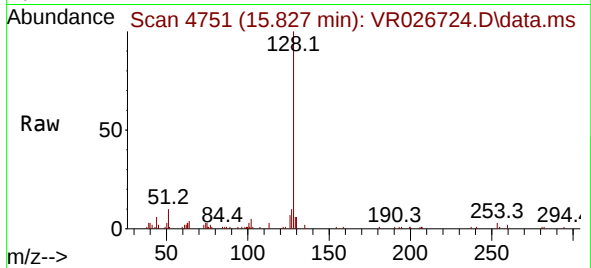




#94
Naphthalene
Concen: 3.650 ug/l
RT: 15.827 min Scan# 4751
Delta R.T. -0.016 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

Instrument :
MSVOA_R
ClientSampleId :
VR0807MBL01

Tgt Ion	128	127	129
Resp:	50390		
Ion Ratio	100	8.3	5.1
Lower		9.8	8.6
Upper		14.8#	13.0#



#95
1,2,3-Trichlorobenzene
Concen: 1.644 ug/l
RT: 16.052 min Scan# 4821
Delta R.T. -0.013 min
Lab File: VR026724.D
Acq: 7 Aug 2025 13:34

Tgt Ion	180	182	145
Resp:	7030		
Ion Ratio	100	59.7	3.2
Lower		47.2	15.5
Upper		141.6	46.5#

