

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
 Data File : VW032293.D
 Acq On : 29 Sep 2025 12:15
 Operator : SY/MD
 Sample : Q3222-01
 Misc : 5.07g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 30 02:36:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 2025
 Response via : Initial Calibration

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

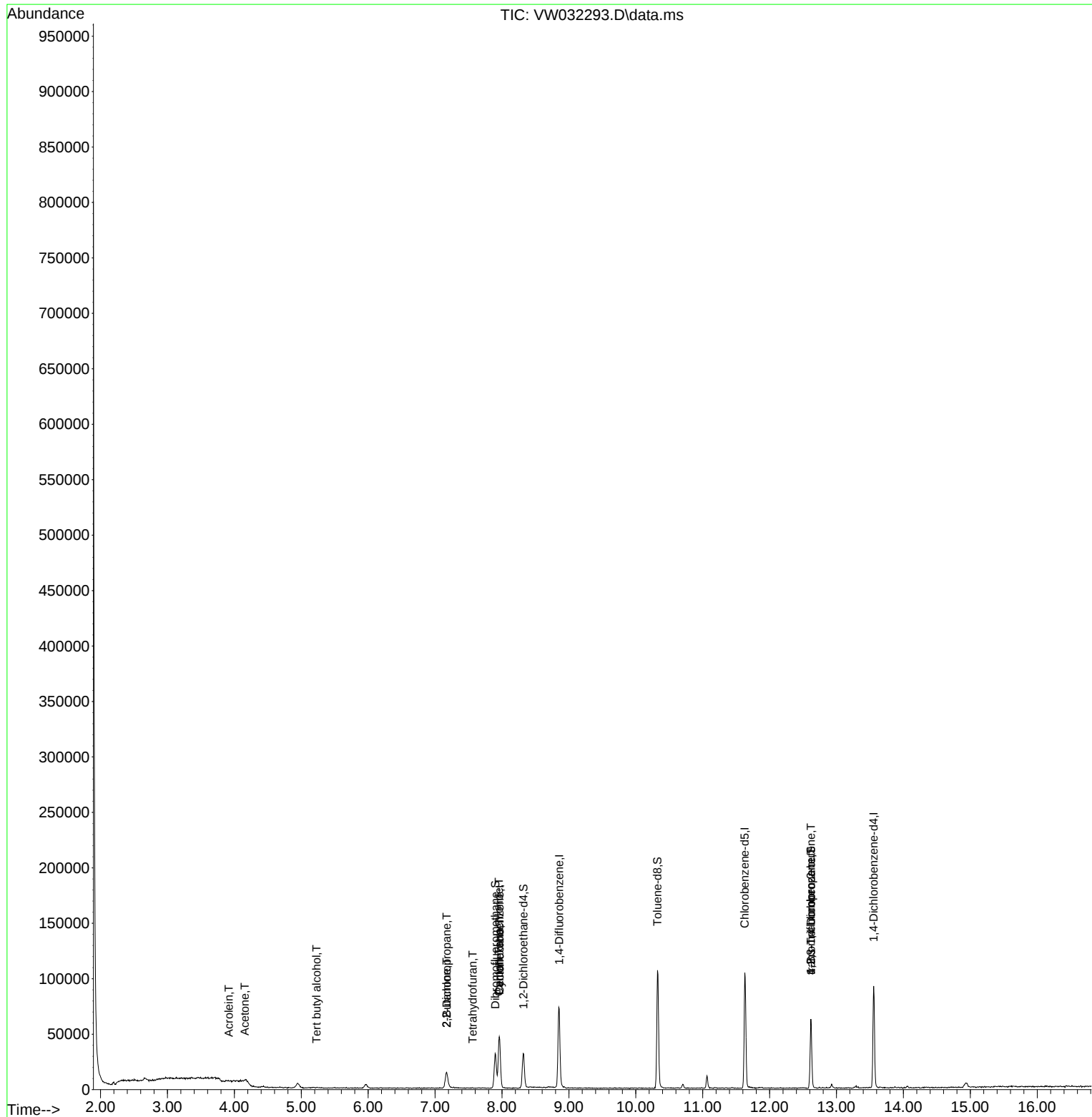
Internal Standards						
1) Pentafluorobenzene	7.965	168	30771	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	60113	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	58122	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	23171	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	26228	53.982	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	= 107.960%	
35) Dibromofluoromethane	7.898	113	22293	51.567	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	= 103.140%	
50) Toluene-d8	10.325	98	72702	46.662	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	= 93.320%	
62) 4-Bromofluorobenzene	12.617	95	22164	37.713	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	= 75.420%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.228	59	181	5.367	ug/l #	70
13) Acrolein	3.917	56	247	4.115	ug/l #	1
16) Acetone	4.155	43	1536	12.310	ug/l	90
20) Methylene Chloride	4.948	84	3244	Below Cal		93
25) 2-Butanone	7.173	43	466	2.679	ug/l #	86
26) 2,2-Dichloropropane	7.173	77	990	2.525	ug/l #	52
29) Tetrahydrofuran	7.563	42	113	1.001	ug/l #	33
31) Cyclohexane	7.965	56	990	1.578	ug/l #	40
38) Carbon Tetrachloride	7.953	117	3600	6.565	ug/l #	16
76) 1,2,3-Trichloropropane	12.617	75	11876	37.255	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	11876	96.767	ug/l #	9

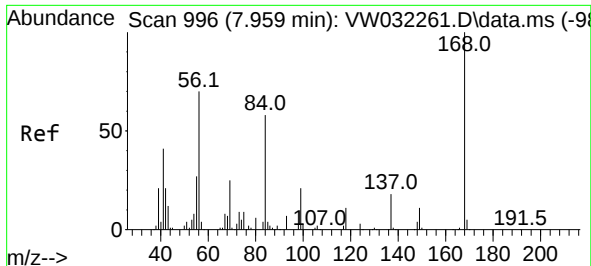
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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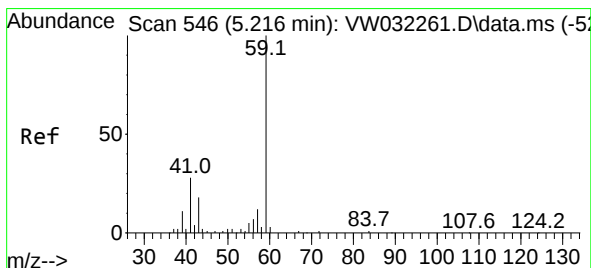
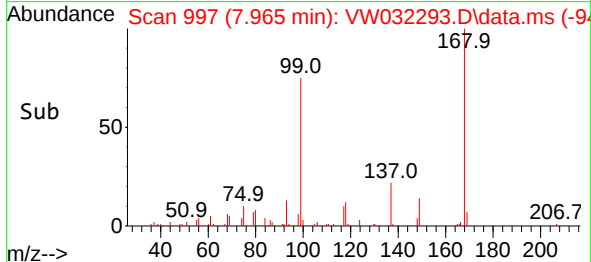
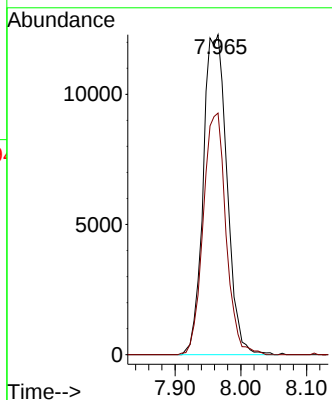
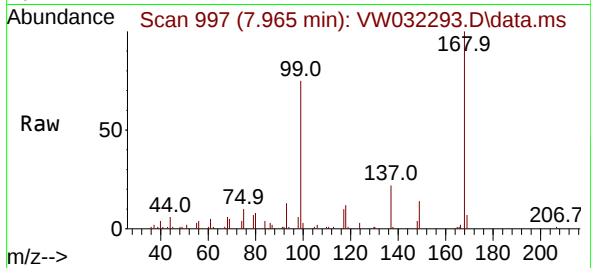




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 99
Delta R.T. 0.006 min
Lab File: VW032293.D
Acq: 29 Sep 2025 12:15

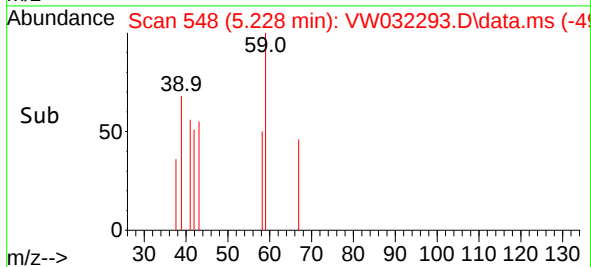
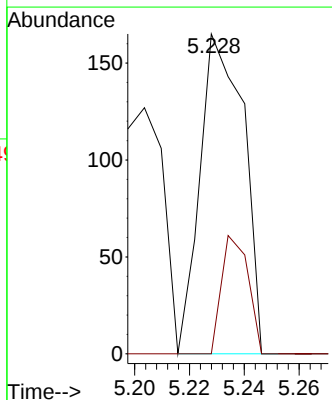
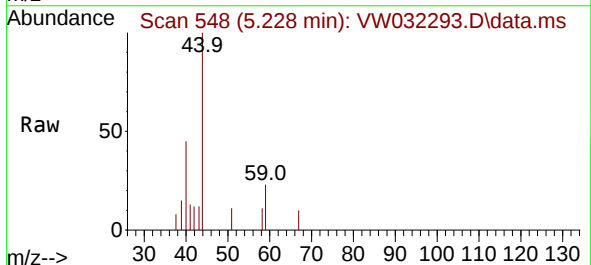
Instrument :
MSVOA_W
ClientSampleId :

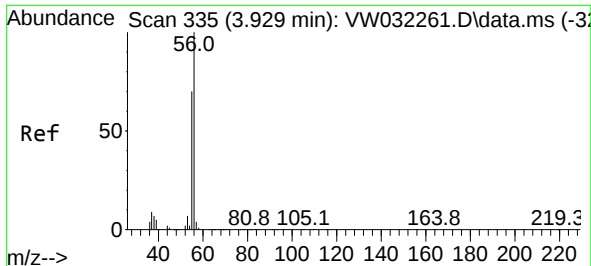
Tgt Ion:168 Resp: 30771
Ion Ratio Lower Upper
168 100
99 75.5 55.0 82.4



#11
Tert butyl alcohol
Concen: 5.367 ug/l
RT: 5.228 min Scan# 548
Delta R.T. 0.012 min
Lab File: VW032293.D
Acq: 29 Sep 2025 12:15

Tgt Ion: 59 Resp: 181
Ion Ratio Lower Upper
59 100
57 22.7 8.9 13.3#

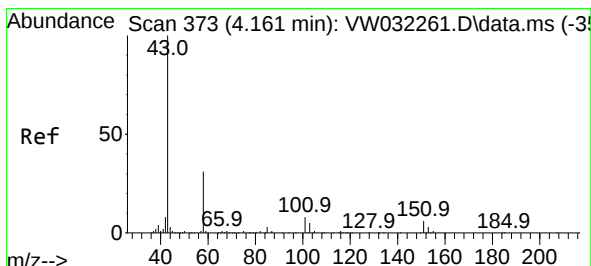
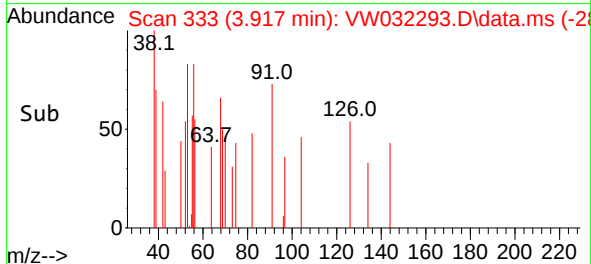
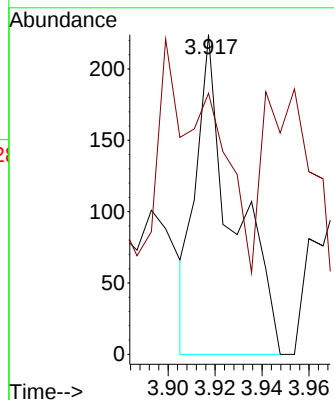
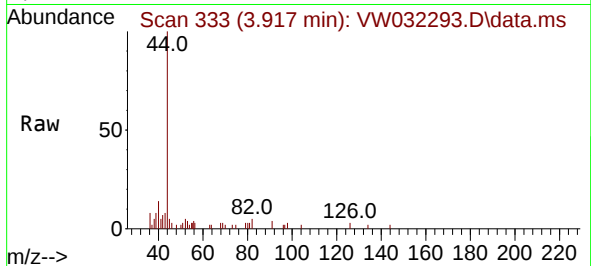




#13
Acrolein
Concen: 4.115 ug/l
RT: 3.917 min Scan# 31
Delta R.T. -0.012 min
Lab File: VW032293.D
Acq: 29 Sep 2025 12:15

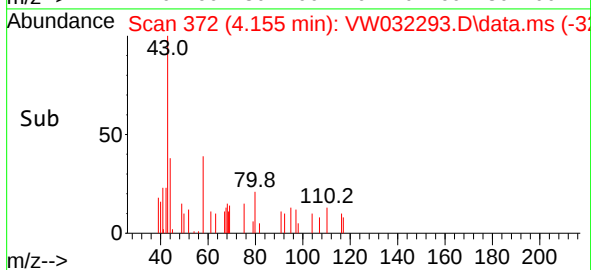
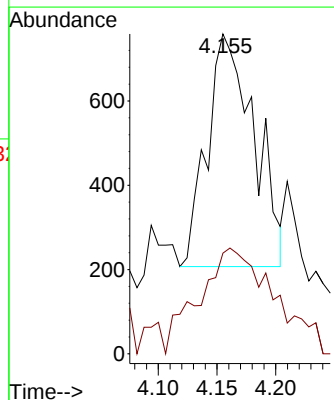
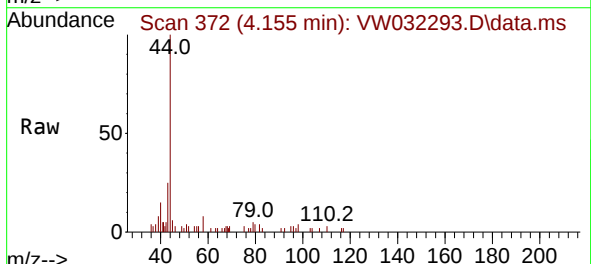
Instrument :
MSVOA_W
ClientSampleId :

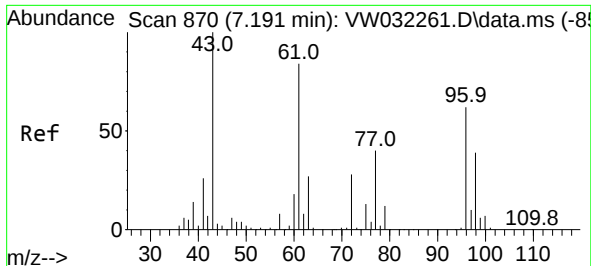
Tgt Ion: 56 Resp: 247
Ion Ratio Lower Upper
56 100
55 166.4 53.2 79.8#



#16
Acetone
Concen: 12.310 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032293.D
Acq: 29 Sep 2025 12:15

Tgt Ion: 43 Resp: 1536
Ion Ratio Lower Upper
43 100
58 26.3 25.4 38.0





#25

2-Butanone

Concen: 2.679 ug/l

RT: 7.173 min Scan# 867

Delta R.T. -0.018 min

Lab File: VW032293.D

Acq: 29 Sep 2025 12:15

Instrument :

MSVOA_W

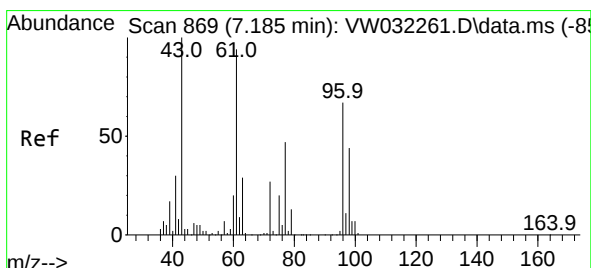
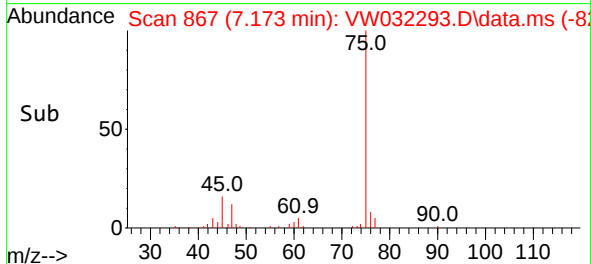
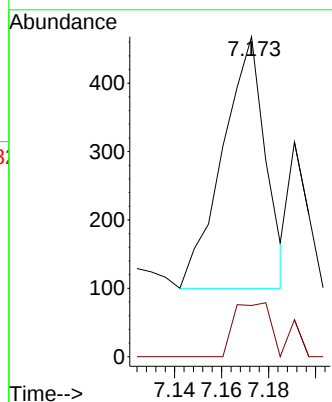
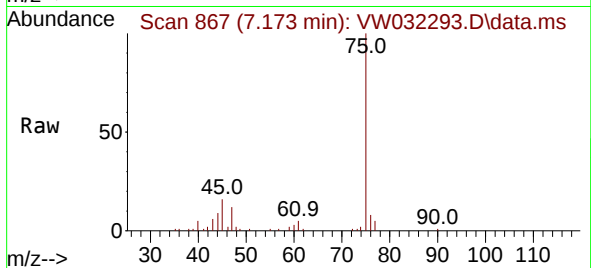
ClientSampleId :

Tgt Ion: 43 Resp: 466

Ion Ratio Lower Upper

43 100

72 20.4 22.3 33.5#



#26

2,2-Dichloropropane

Concen: 2.525 ug/l

RT: 7.173 min Scan# 867

Delta R.T. -0.012 min

Lab File: VW032293.D

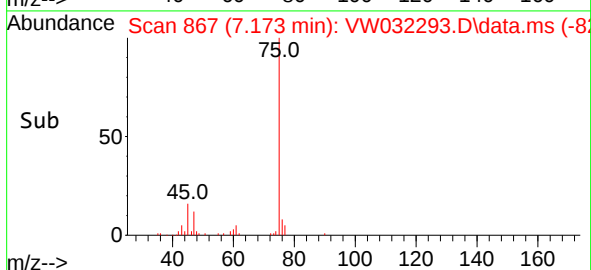
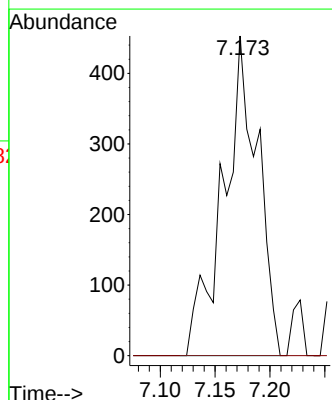
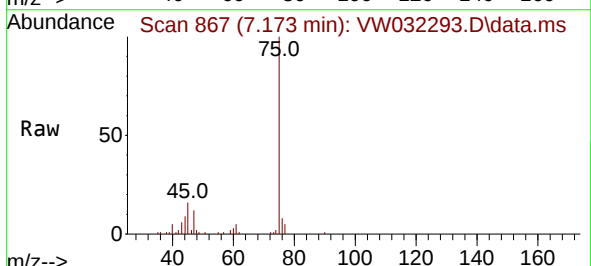
Acq: 29 Sep 2025 12:15

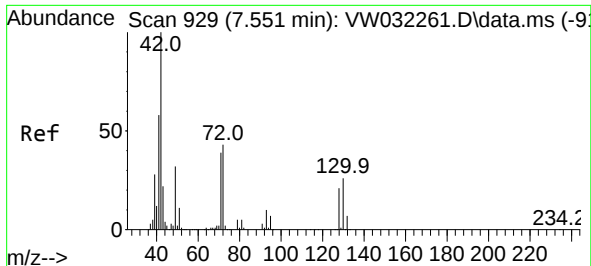
Tgt Ion: 77 Resp: 990

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#





#29

Tetrahydrofuran

Concen: 1.001 ug/l

RT: 7.563 min Scan# 91

Delta R.T. 0.012 min

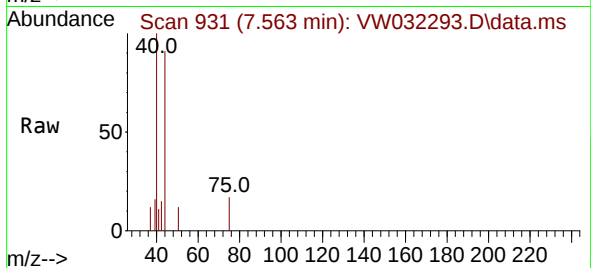
Lab File: VW032293.D

Acq: 29 Sep 2025 12:15

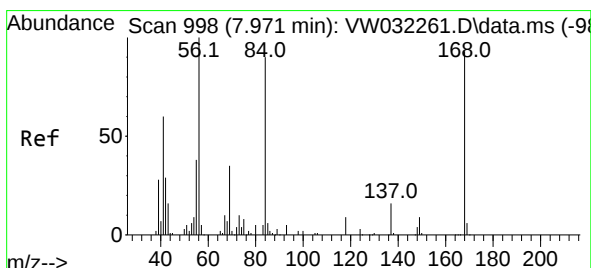
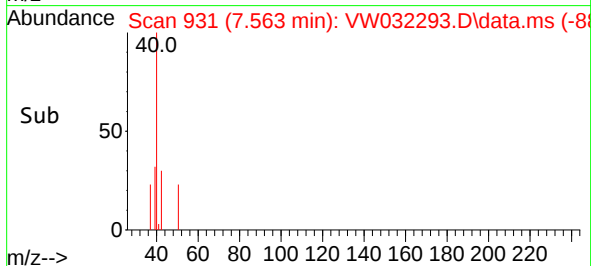
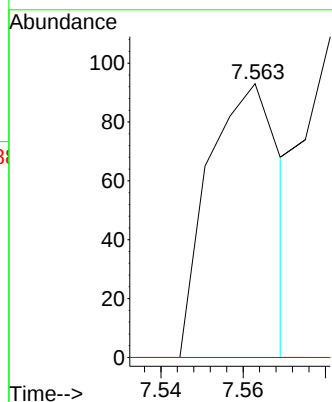
Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:	42	Resp:	113
Ion Ratio	Lower	Upper	
42	100		
72	0.0	35.1	52.7#
71	0.0	33.3	49.9#



#31

Cyclohexane

Concen: 1.578 ug/l

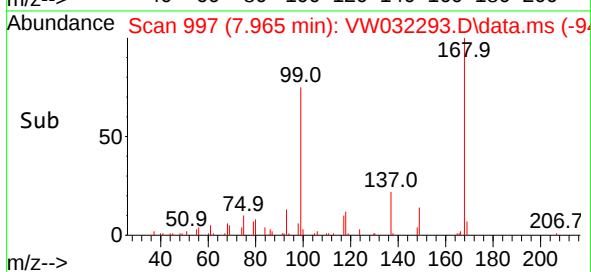
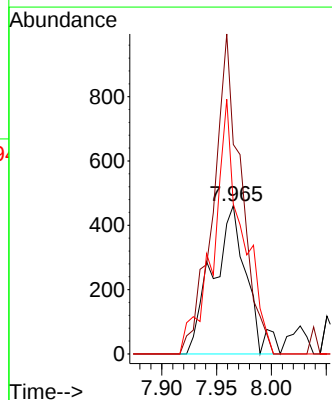
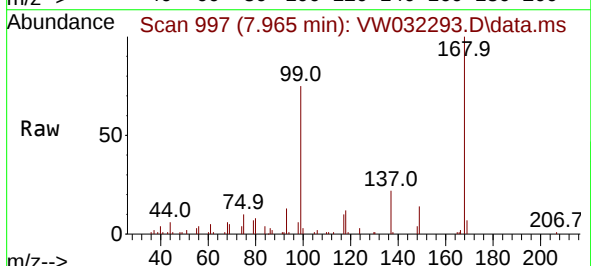
RT: 7.965 min Scan# 997

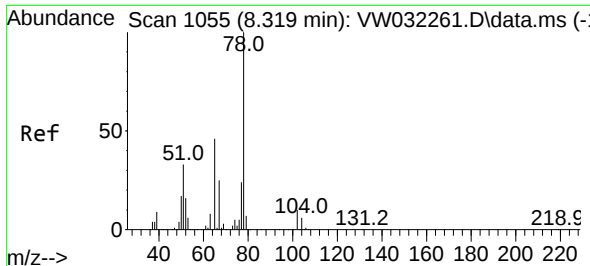
Delta R.T. -0.006 min

Lab File: VW032293.D

Acq: 29 Sep 2025 12:15

Tgt Ion:	56	Resp:	990
Ion Ratio	Lower	Upper	
56	100		
69	141.2	28.2	42.2#
84	100.9	71.8	107.6

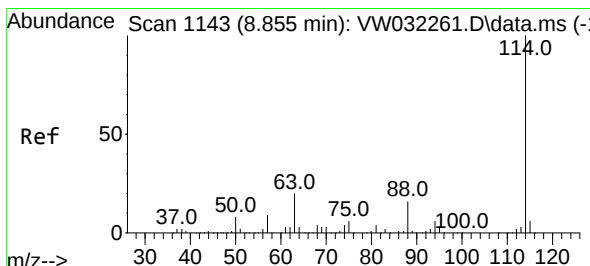
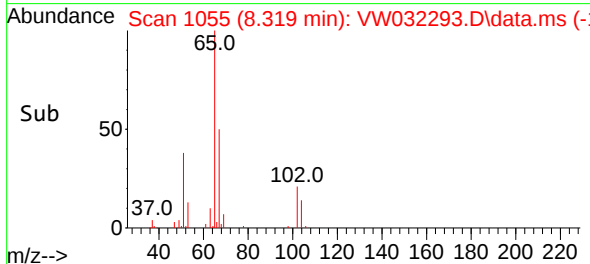
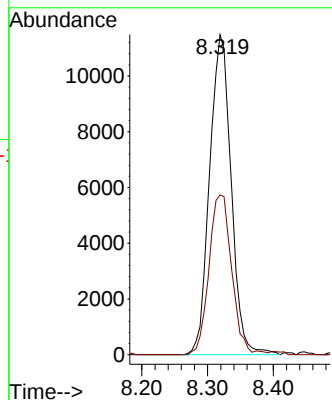
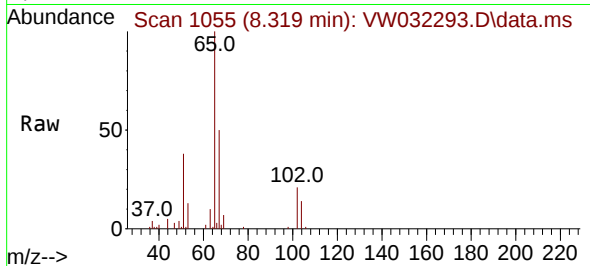




#33
 1,2-Dichloroethane-d4
 Concen: 53.982 ug/l
 RT: 8.319 min Scan# 1055
 Delta R.T. 0.000 min
 Lab File: VW032293.D
 Acq: 29 Sep 2025 12:15

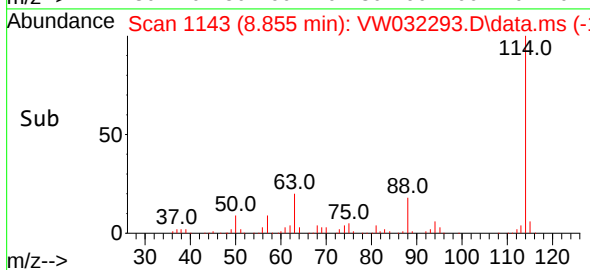
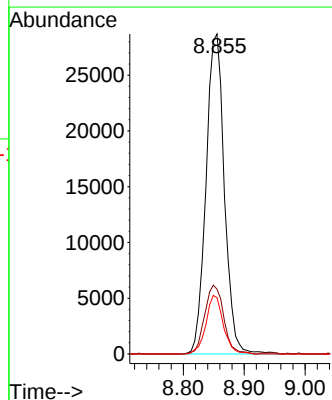
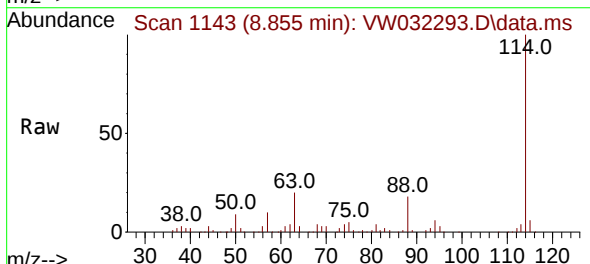
Instrument :
 MSVOA_W
 ClientSampleId :

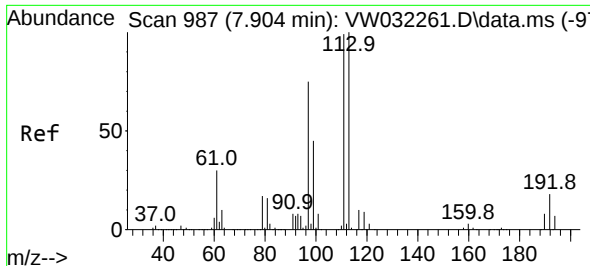
Tgt Ion: 65 Resp: 26228
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.855 min Scan# 1143
 Delta R.T. 0.000 min
 Lab File: VW032293.D
 Acq: 29 Sep 2025 12:15

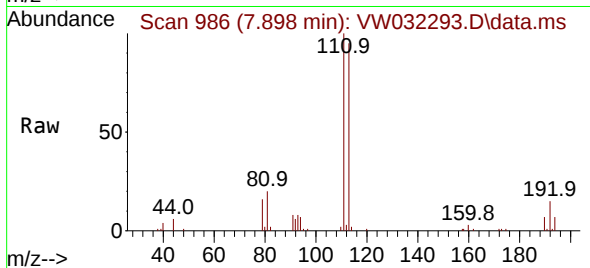
Tgt Ion: 114 Resp: 60113
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 40.2
 88 17.6 0.0 32.0





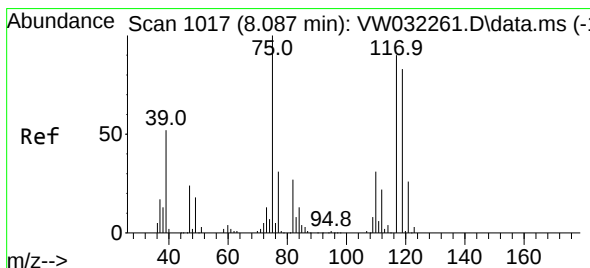
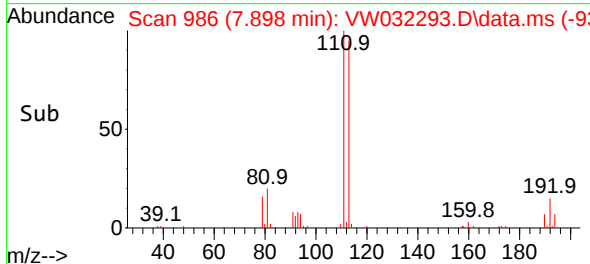
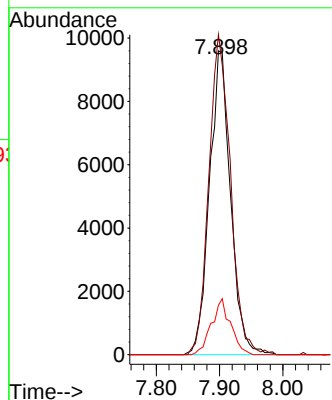
#35
 Dibromofluoromethane
 Concen: 51.567 ug/l
 RT: 7.898 min Scan# 91
 Delta R.T. -0.006 min
 Lab File: VW032293.D
 Acq: 29 Sep 2025 12:15

Instrument :
 MSVOA_W
 ClientSampleId :



Tgt Ion:113 Resp: 22293

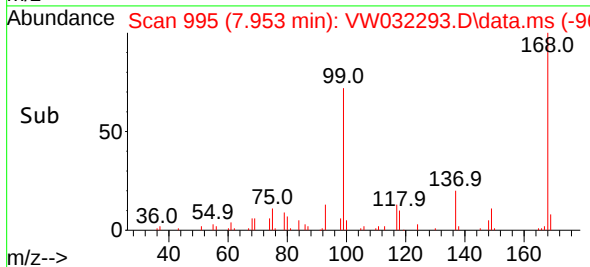
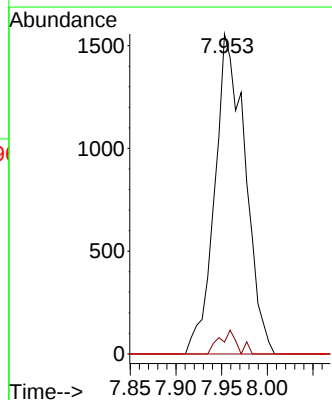
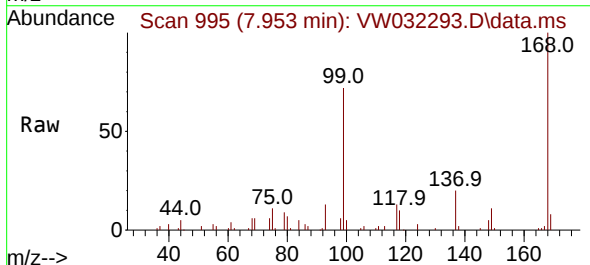
Ion	Ratio	Lower	Upper
113	100		
111	107.6	81.8	122.8
192	16.7	13.0	19.4

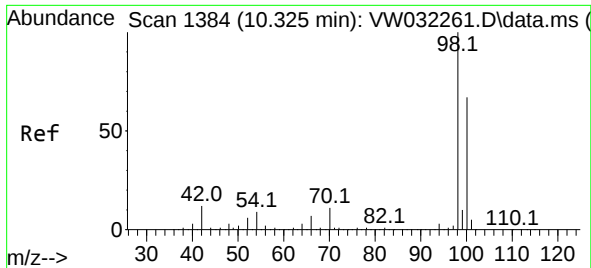


#38
 Carbon Tetrachloride
 Concen: 6.565 ug/l
 RT: 7.953 min Scan# 995
 Delta R.T. -0.134 min
 Lab File: VW032293.D
 Acq: 29 Sep 2025 12:15

Tgt Ion:117 Resp: 3600

Ion	Ratio	Lower	Upper
117	100		
119	3.7	73.9	110.9#
121	0.0	23.0	34.6#

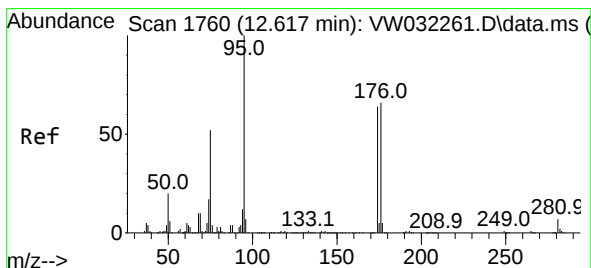
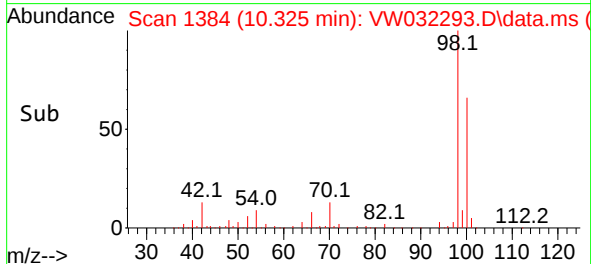
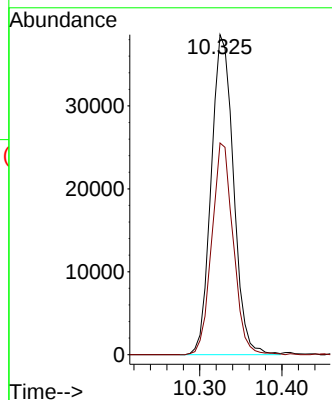
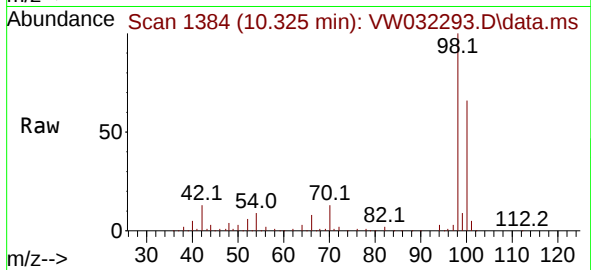




#50
Toluene-d8
Concen: 46.662 ug/l
RT: 10.325 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032293.D
Acq: 29 Sep 2025 12:15

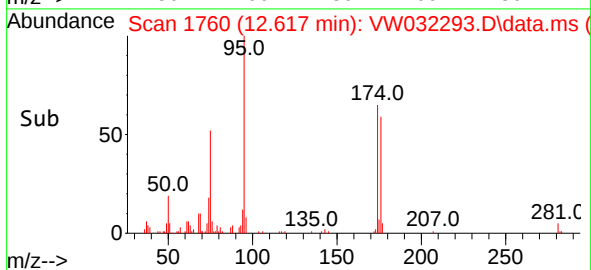
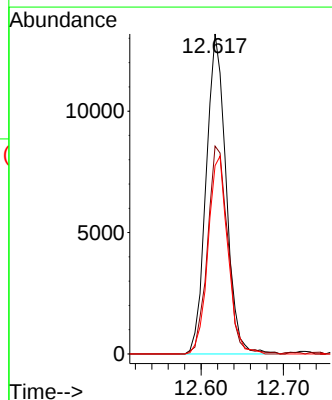
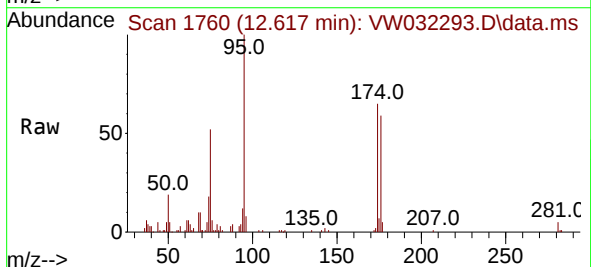
Instrument :
MSVOA_W
ClientSampleId :

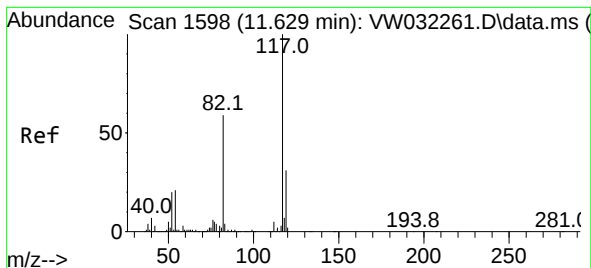
Tgt Ion: 98 Resp: 72702
Ion Ratio Lower Upper
98 100
100 63.6 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 37.713 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032293.D
Acq: 29 Sep 2025 12:15

Tgt Ion: 95 Resp: 22164
Ion Ratio Lower Upper
95 100
174 66.3 0.0 130.6
176 61.5 0.0 127.0

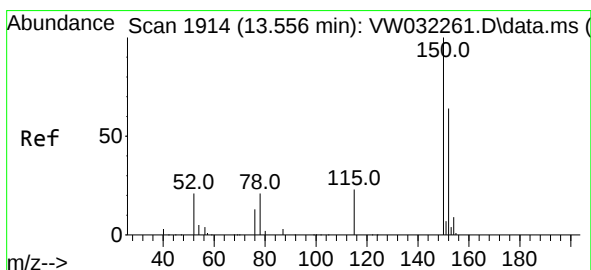
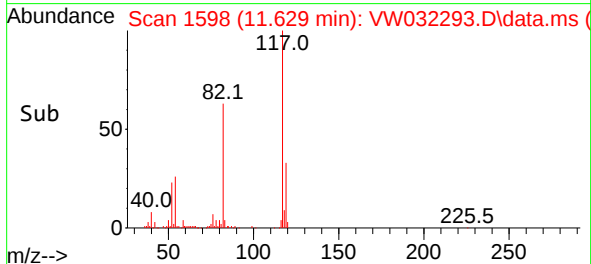
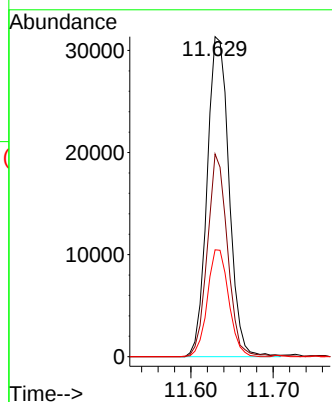
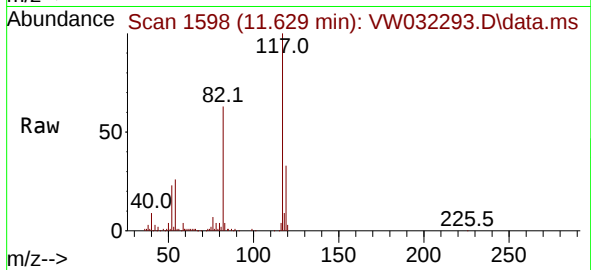




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032293.D
Acq: 29 Sep 2025 12:15

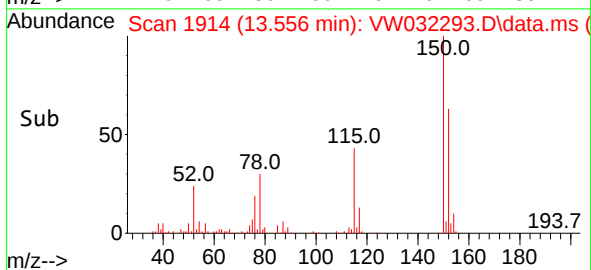
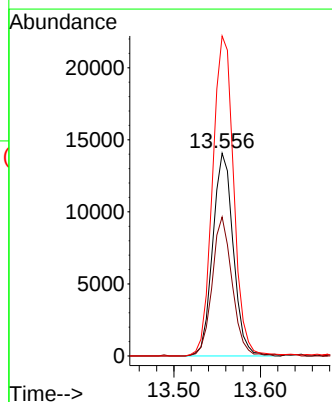
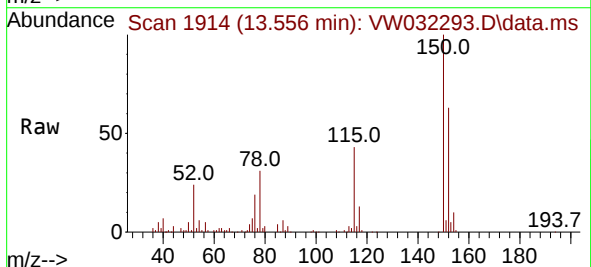
Instrument :
MSVOA_W
ClientSampleId :

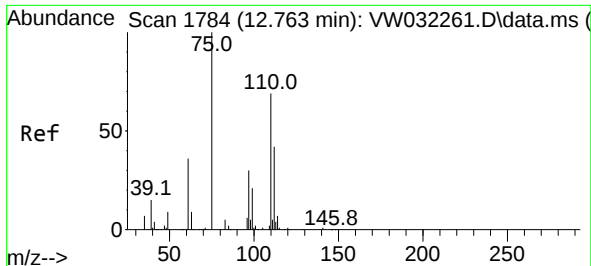
Tgt Ion	Ratio	Lower	Upper
117	100		
82	63.3	46.9	70.3
119	33.4	24.9	37.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032293.D
Acq: 29 Sep 2025 12:15

Tgt Ion	Ratio	Lower	Upper
152	100		
115	66.5	32.5	97.5
150	162.7	0.0	370.2

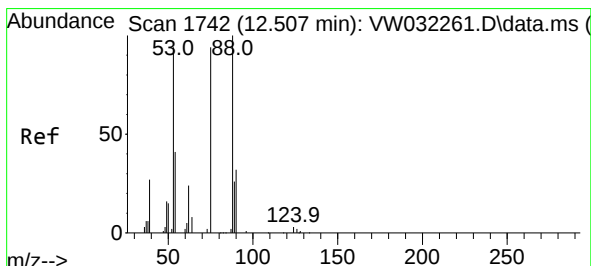
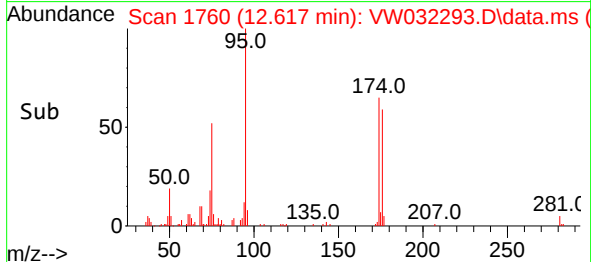
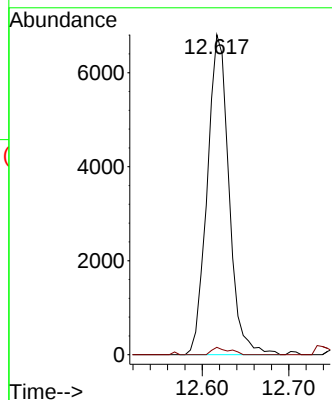
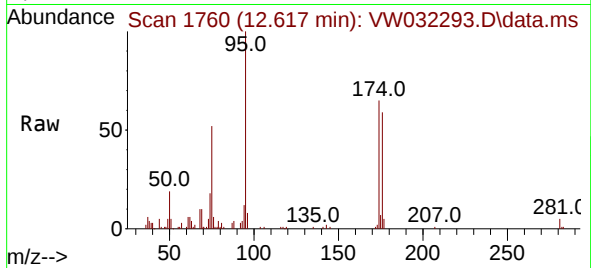




#76
1,2,3-Trichloropropane
Concen: 37.255 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032293.D
Acq: 29 Sep 2025 12:15

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion: 75 Resp: 11876
Ion Ratio Lower Upper
75 100
77 1.8 140.9 422.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 96.767 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.110 min
Lab File: VW032293.D
Acq: 29 Sep 2025 12:15

Tgt Ion: 75 Resp: 11876
Ion Ratio Lower Upper
75 100
53 0.6 81.4 122.2#
89 0.0 35.4 53.2#

