

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072225\
 Data File : VN087393.D
 Acq On : 22 Jul 2025 16:46
 Operator : JC\MD
 Sample : Q2669-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 001 WILLETS PT BLVD (JUNE)

Quant Time: Jul 23 05:57:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

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

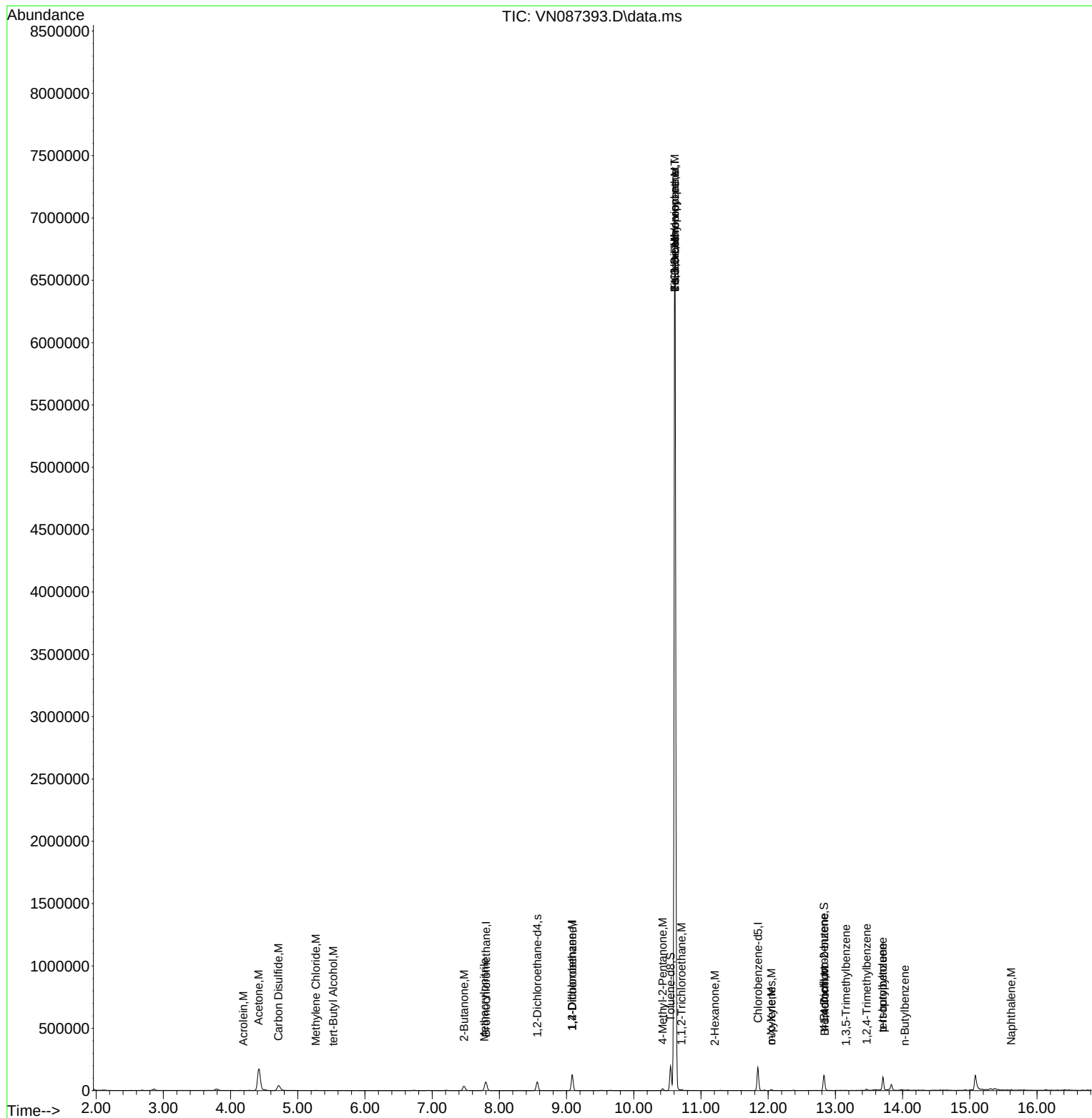
Internal Standards						
1) Bromochloromethane	7.800	128	23863	30.000	ug/l	-0.02
28) 1,4-Difluorobenzene	9.088	114	105568	30.000	ug/l	-0.02
57) Chlorobenzene-d5	11.847	117	102924	30.000	ug/l	-0.02
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	59685	33.196	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 110	Recovery	=	110.667%#
60) 4-Bromofluorobenzene	12.829	95	40814	25.698	ug/l	-0.02
Spiked Amount	30.000	Range	63 - 112	Recovery	=	85.667%
63) Toluene-d8	10.547	98	126960	27.473	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 112	Recovery	=	91.567%
Target Compounds						Qvalue
13) Acrolein	4.189	56	192	0.551	ug/l	97
15) Acetone	4.418	58	96396	312.461	ug/l	71
16) Carbon Disulfide	4.712	76	3538	0.837	ug/l #	75
18) Methylene Chloride	5.271	84	952	0.568	ug/l #	64
23) tert-Butyl Alcohol	5.530	59	152	0.382	ug/l #	100
30) 2-Butanone	7.477	43	60922	54.888	ug/l #	90
35) Methacrylonitrile	7.777	41	1260	1.126	ug/l #	32
36) 1,2-Dichloroethane	9.082	62	4054	2.407	ug/l #	75
48) t-1,3-Dichloropropene	10.612	75	38240	19.102	ug/l #	1
49) cis-1,3-Dichloropropene	10.612	75	38240	17.968	ug/l #	1
50) 1,1,2-Trichloroethane	10.712	97	3425	2.710	ug/l #	19
55) 2-Chloroethyl vinyl ether	10.612	63	464918	421.676	ug/l #	1
56) Bromoform	12.841	173	429	0.470	ug/l #	1
58) 4-Methyl-2-Pentanone	10.429	43	11429	5.524	ug/l #	83
59) 2-Hexanone	11.206	43	490	0.367	ug/l #	29
62) Toluene	10.612	91	4880565	839.597	ug/l	99
67) m/p-Xylenes	12.047	106	2373	0.973	ug/l	91
68) o-Xylene	12.047	106	2373	1.020	ug/l	85
76) 1,3,5-Trimethylbenzene	13.159	105	1519	0.322	ug/l	64
77) t-1,4-Dichloro-2-butene	12.835	75	23875	29.932	ug/l #	13
79) tert-butylbenzene	13.706	119	56813	14.331	ug/l	60
80) 1,2,4-Trimethylbenzene	13.465	105	3786	0.799	ug/l	100
82) p-Isopropyltoluene	13.706	119	56813	11.846	ug/l	97
85) n-Butylbenzene	14.035	91	1545	0.353	ug/l #	47
91) Naphthalene	15.617	128	3844	0.677	ug/l #	80

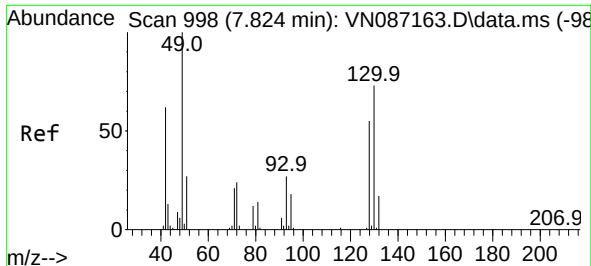
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 25 10:49:56 2025
Response via : Initial Calibration

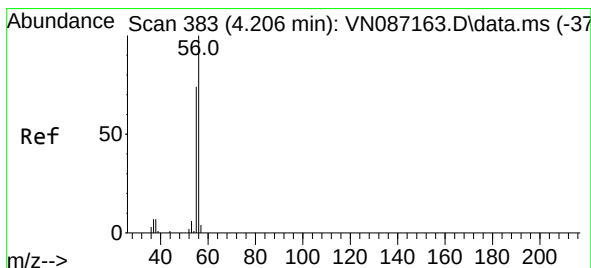
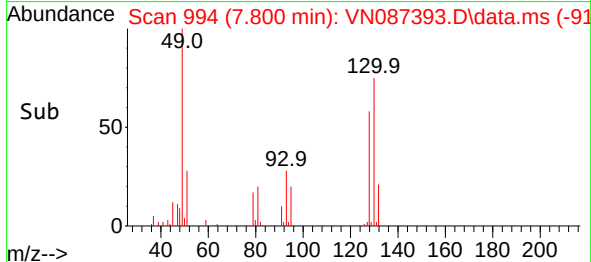
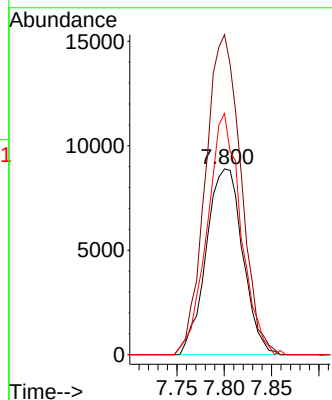
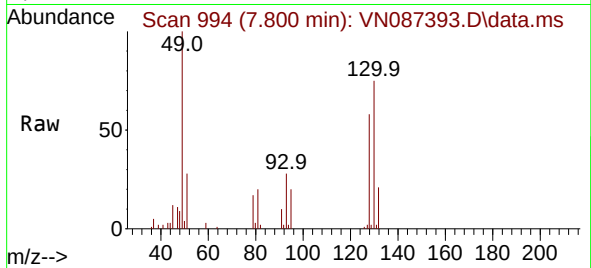




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 91
Delta R.T. -0.024 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

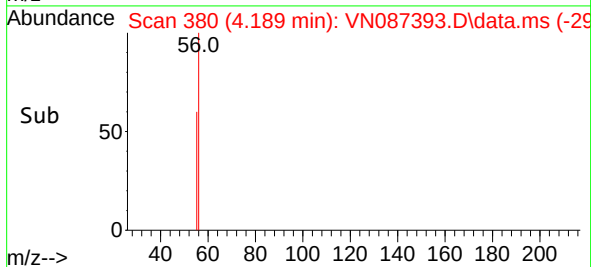
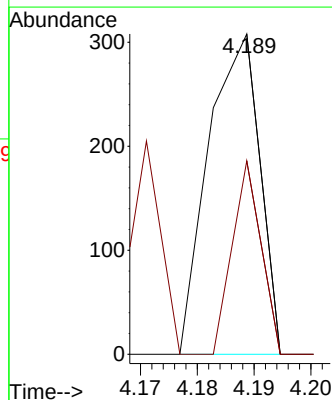
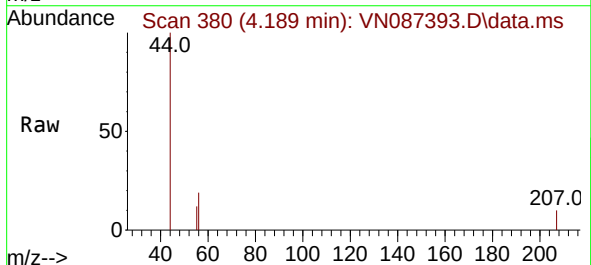
Instrument :
MSVOA_N
ClientSampleId :
001 WILLETS PT BLVD (JUNE)

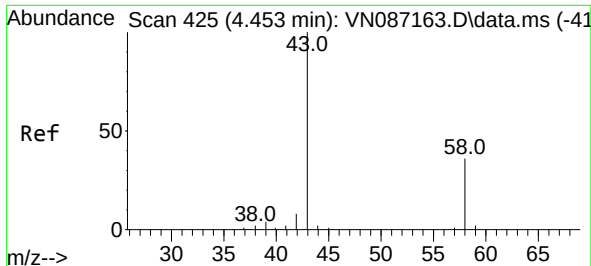
Tgt Ion:128 Resp: 23863
Ion Ratio Lower Upper
128 100
49 167.1 0.0 450.5
130 119.4 0.0 320.7



#13
Acrolein
Concen: 0.551 ug/l
RT: 4.189 min Scan# 380
Delta R.T. -0.018 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

Tgt Ion: 56 Resp: 192
Ion Ratio Lower Upper
56 100
55 72.4 55.7 83.5





#15

Acetone

Concen: 312.461 ug/l

RT: 4.418 min Scan# 41

Delta R.T. -0.035 min

Lab File: VN087393.D

Acq: 22 Jul 2025 16:46

Instrument :

MSVOA_N

ClientSampleId :

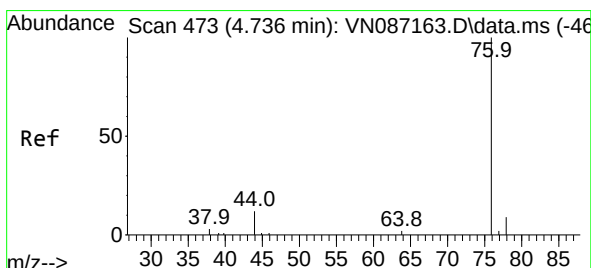
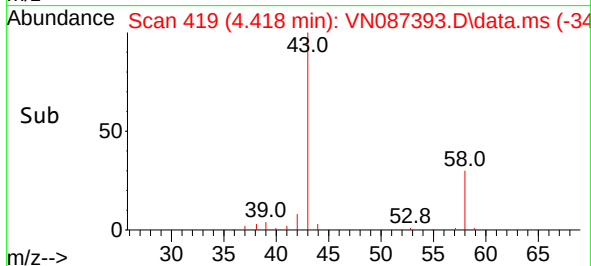
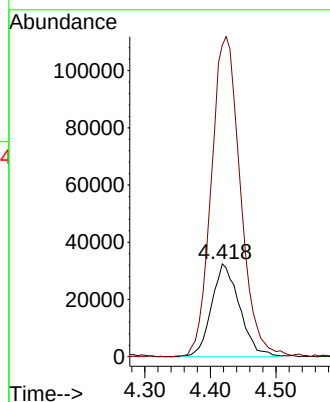
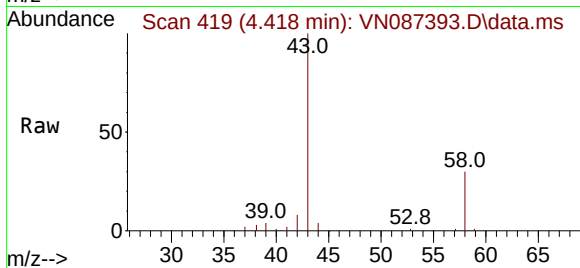
001 WILLETS PT BLVD (JUNE)

Tgt Ion: 58 Resp: 96396

Ion Ratio Lower Upper

58 100

43 334.7 224.3 336.5



#16

Carbon Disulfide

Concen: 0.837 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.023 min

Lab File: VN087393.D

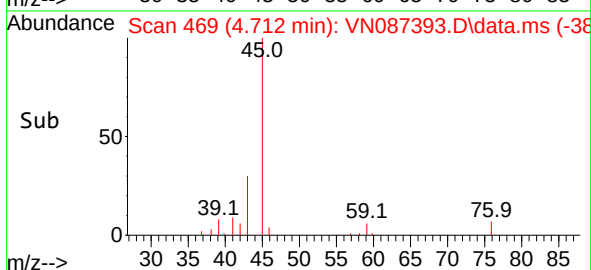
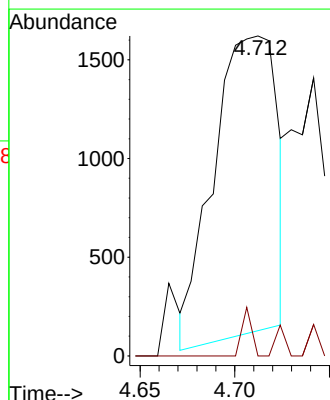
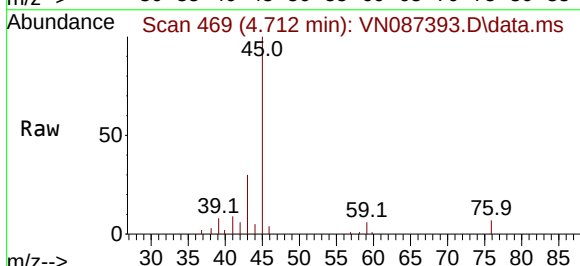
Acq: 22 Jul 2025 16:46

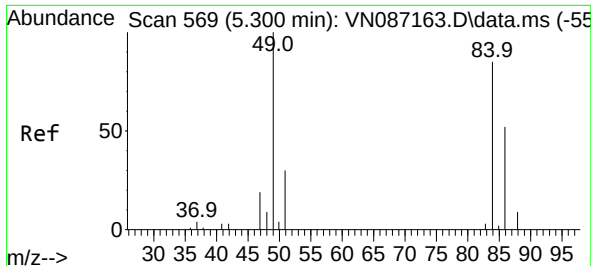
Tgt Ion: 76 Resp: 3538

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

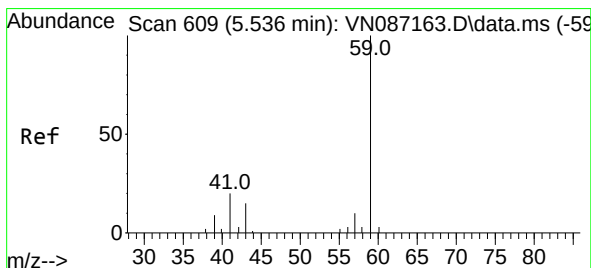
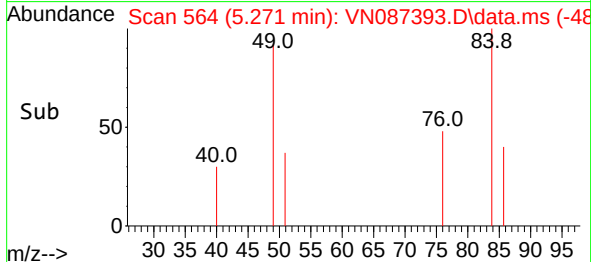
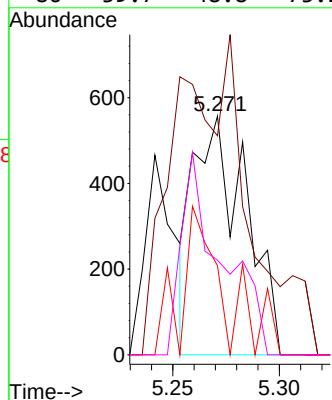
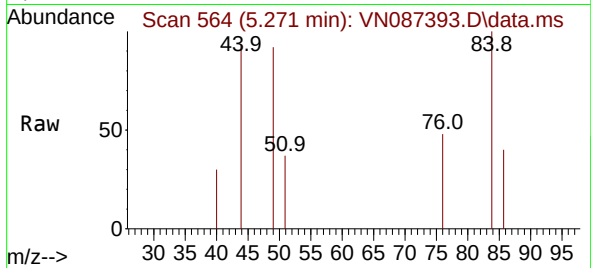




#18
Methylene Chloride
Concen: 0.568 ug/l
RT: 5.271 min Scan# 501
Delta R.T. -0.029 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

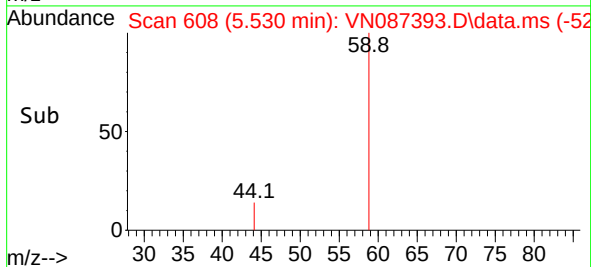
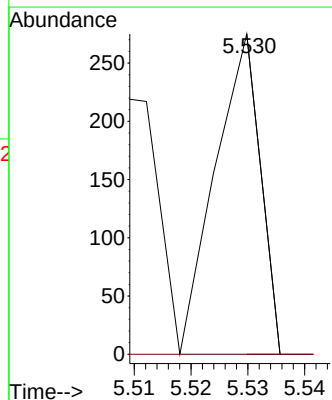
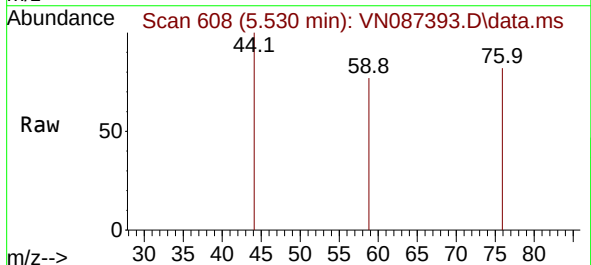
Instrument :
MSVOA_N
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001 WILLETS PT BLVD (JUNE)

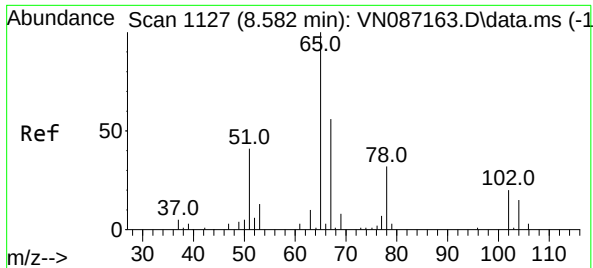
Tgt Ion:	84	Resp:	952
Ion	Ratio	Lower	Upper
84	100		
49	63.2	94.0	141.0#
51	37.3	28.3	42.5
86	39.7	48.8	73.2#



#23
tert-Butyl Alcohol
Concen: 0.382 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.006 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

Tgt Ion:	59	Resp:	152
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0





#27

1,2-Dichloroethane-d4

Concen: 33.196 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. -0.018 min

Lab File: VN087393.D

Acq: 22 Jul 2025 16:46

Instrument :

MSVOA_N

ClientSampleId :

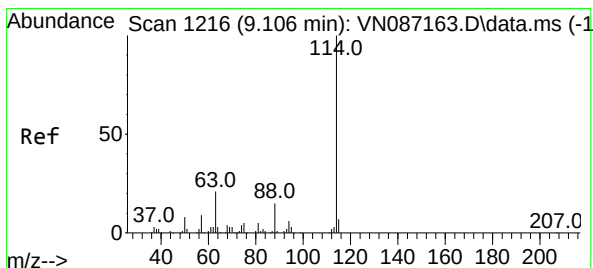
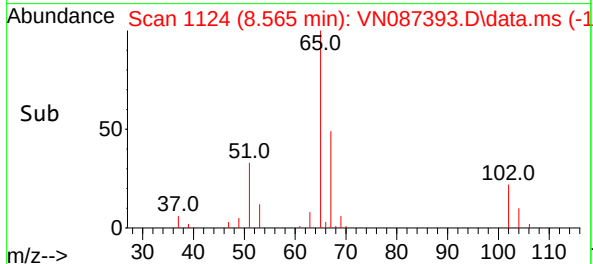
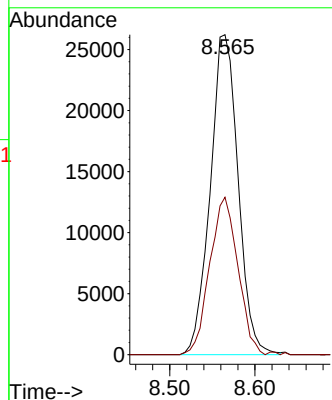
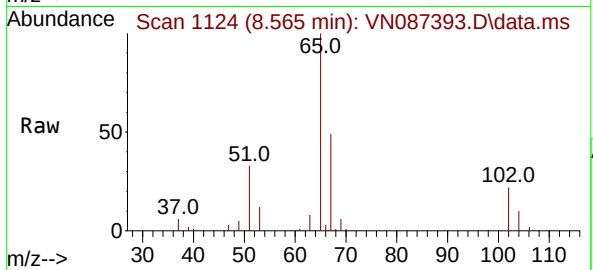
001 WILLETS PT BLVD (JUNE)

Tgt Ion: 65 Resp: 59685

Ion Ratio Lower Upper

65 100

67 49.6 41.9 62.9



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.088 min Scan# 1213

Delta R.T. -0.018 min

Lab File: VN087393.D

Acq: 22 Jul 2025 16:46

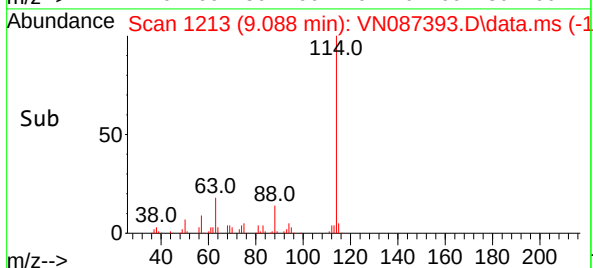
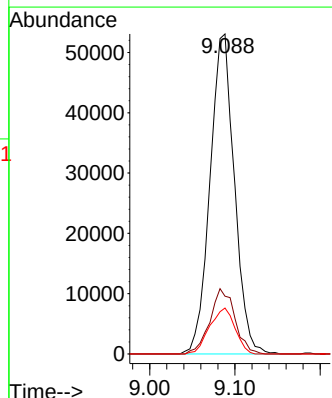
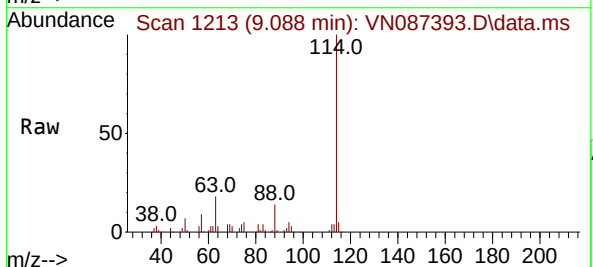
Tgt Ion: 114 Resp: 105568

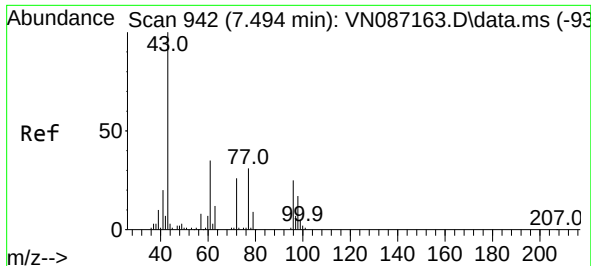
Ion Ratio Lower Upper

114 100

63 20.9 17.0 25.4

88 14.9 12.6 19.0

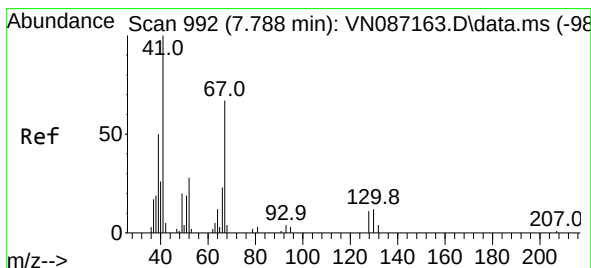
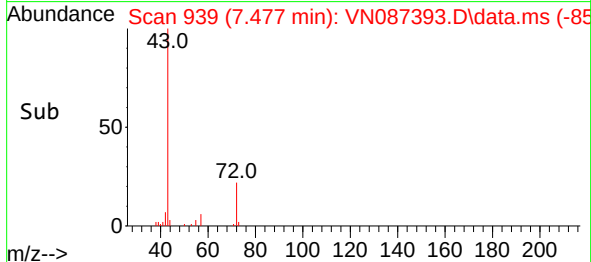
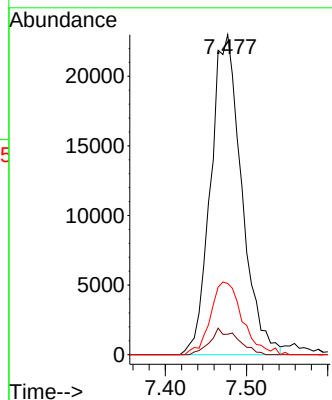
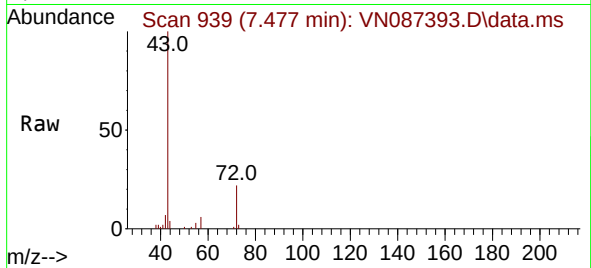




#30
2-Butanone
Concen: 54.888 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.018 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

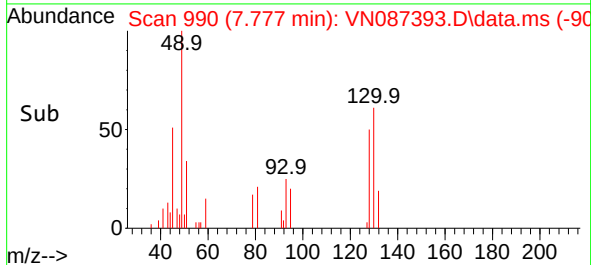
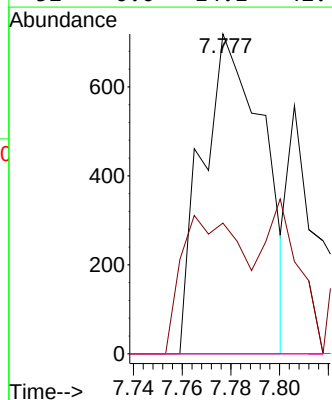
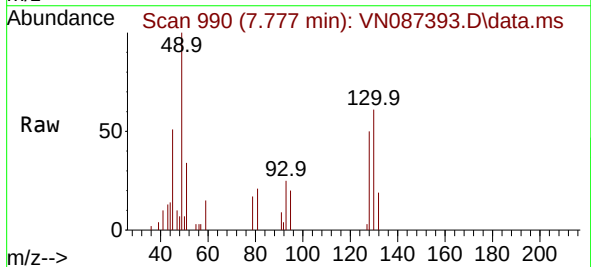
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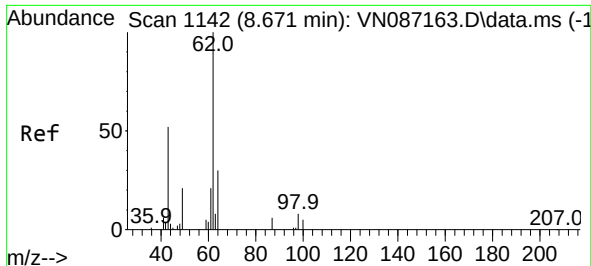
Tgt Ion: 43 Resp: 60922
Ion Ratio Lower Upper
43 100
57 3.7 6.3 9.5#
72 22.4 21.8 32.6



#35
Methacrylonitrile
Concen: 1.126 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.012 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

Tgt Ion: 41 Resp: 1260
Ion Ratio Lower Upper
41 100
39 11.4 24.4 73.2#
67 0.0 33.3 99.8#
52 0.0 14.1 42.4#

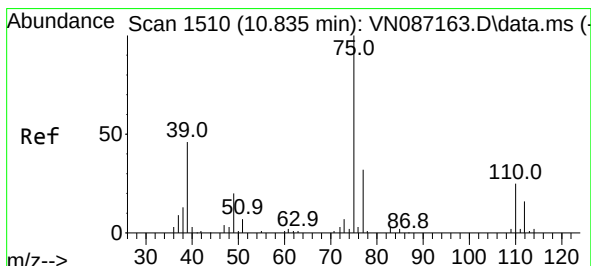
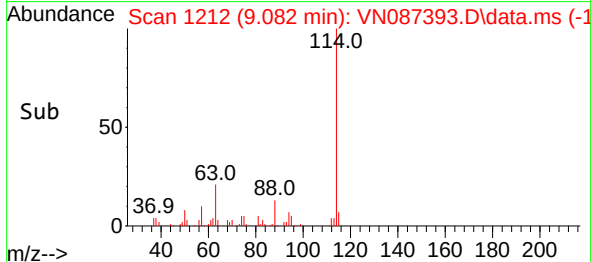
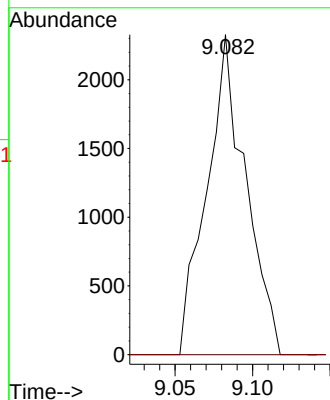
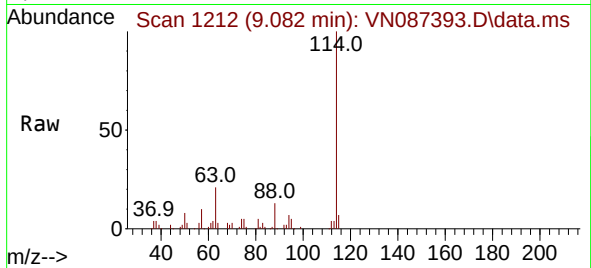




#36
1,2-Dichloroethane
Concen: 2.407 ug/l
RT: 9.082 min Scan# 1142
Delta R.T. 0.412 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

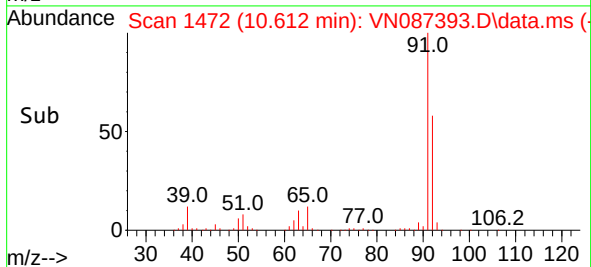
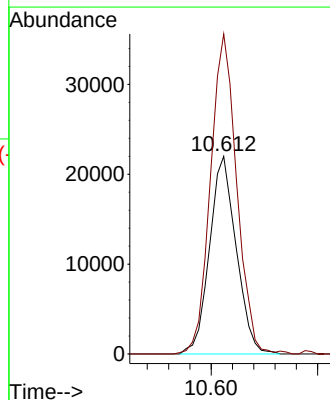
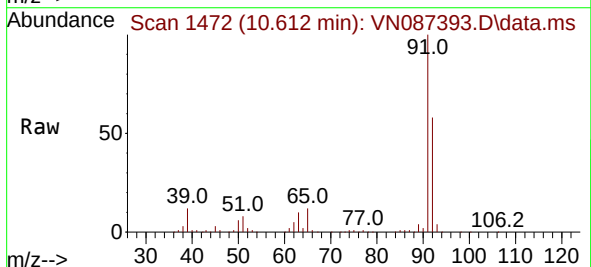
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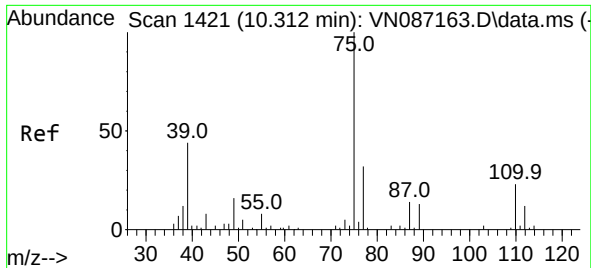
Tgt Ion: 62 Resp: 4054
Ion Ratio Lower Upper
62 100
98 0.0 7.2 10.8#



#48
t-1,3-Dichloropropene
Concen: 19.102 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.223 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

Tgt Ion: 75 Resp: 38240
Ion Ratio Lower Upper
75 100
77 161.2 25.4 38.0#

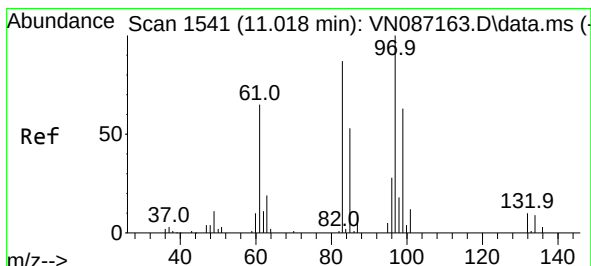
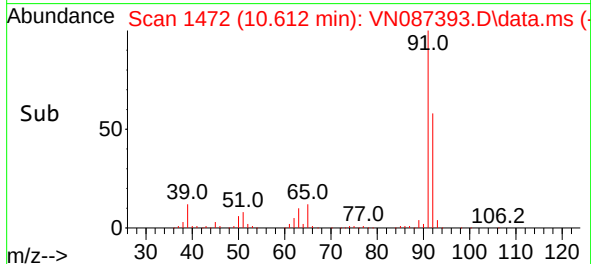
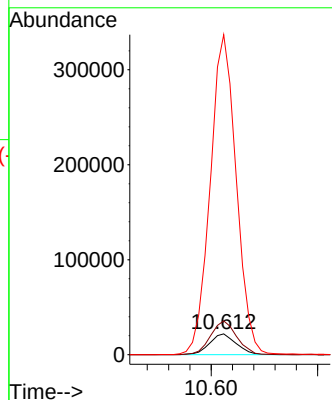
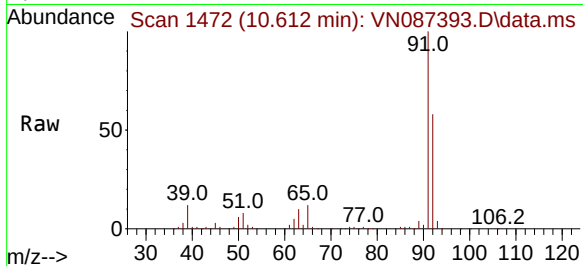




#49
 cis-1,3-Dichloropropene
 Concen: 17.968 ug/l
 RT: 10.612 min Scan# 1421
 Delta R.T. 0.300 min
 Lab File: VN087393.D
 Acq: 22 Jul 2025 16:46

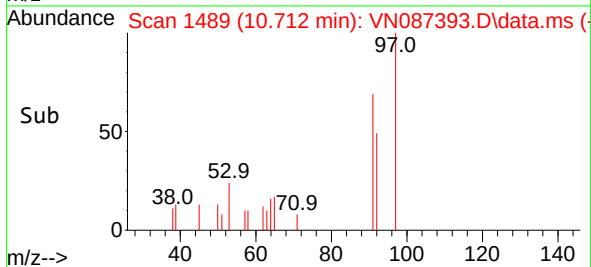
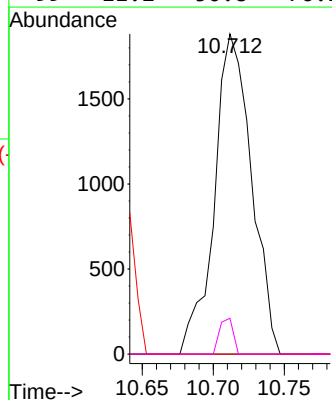
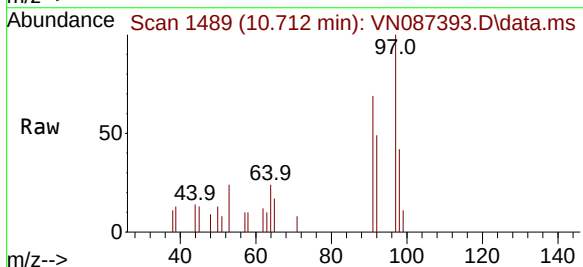
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 001 WILLETS PT BLVD (JUNE)

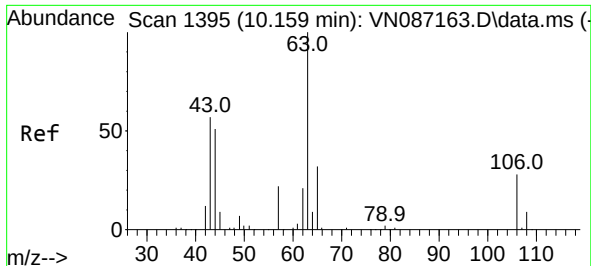
Tgt Ion: 75 Resp: 38240
 Ion Ratio Lower Upper
 75 100
 77 161.2 25.4 38.2#
 39 1528.0 35.3 52.9#



#50
 1,1,2-Trichloroethane
 Concen: 2.710 ug/l
 RT: 10.712 min Scan# 1489
 Delta R.T. -0.306 min
 Lab File: VN087393.D
 Acq: 22 Jul 2025 16:46

Tgt Ion: 97 Resp: 3425
 Ion Ratio Lower Upper
 97 100
 83 0.0 69.6 104.4#
 85 0.0 42.0 63.0#
 99 11.2 50.8 76.2#

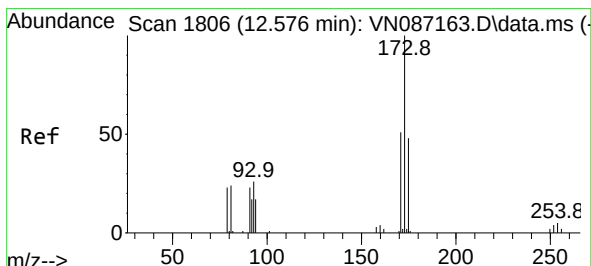
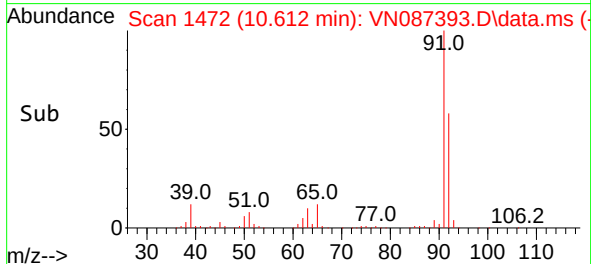
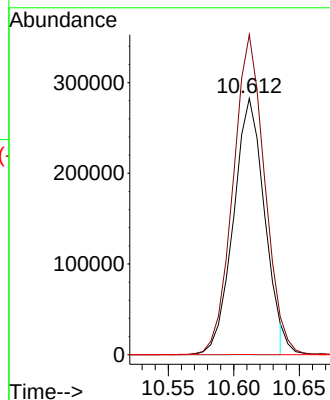
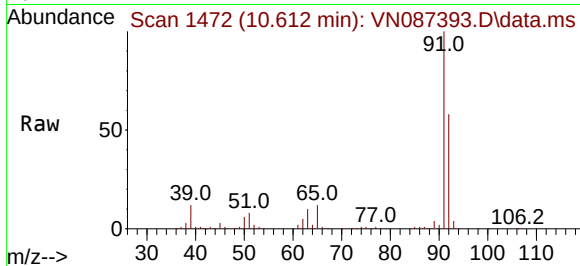




#55
2-Chloroethyl vinyl ether
Concen: 421.676 ug/l
RT: 10.612 min Scan# 14
Delta R.T. 0.453 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

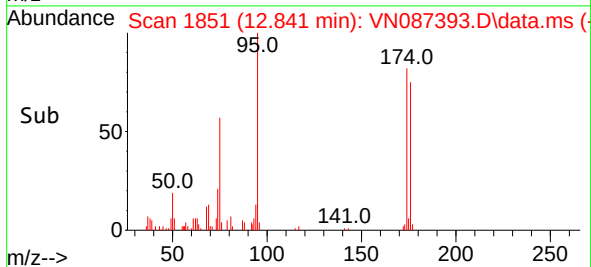
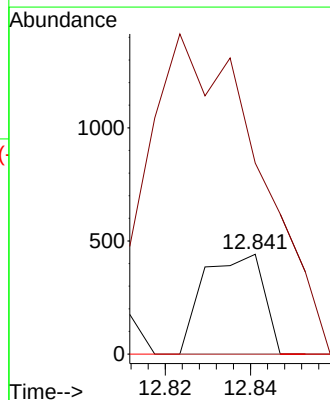
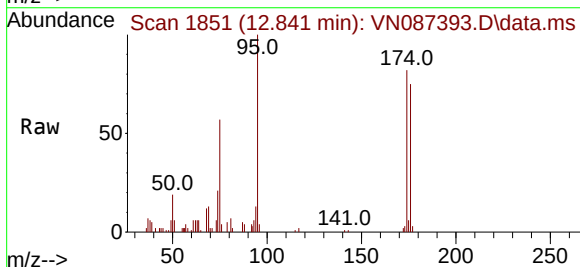
Instrument :
MSVOA_N
ClientSampleId :
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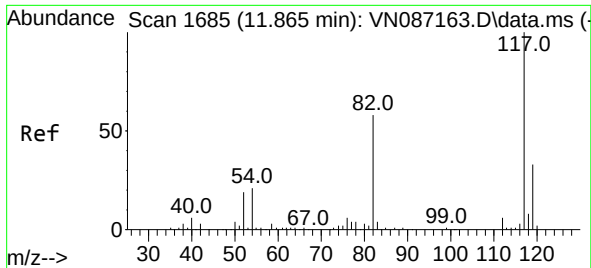
Tgt Ion: 63 Resp: 464918
Ion Ratio Lower Upper
63 100
65 125.6 25.6 38.4#
106 0.0 21.9 32.9#



#56
Bromoform
Concen: 0.470 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

Tgt Ion:173 Resp: 429
Ion Ratio Lower Upper
173 100
175 593.0 38.7 58.1#
254 0.0 4.2 6.4#

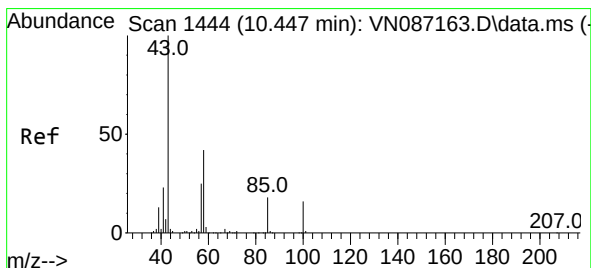
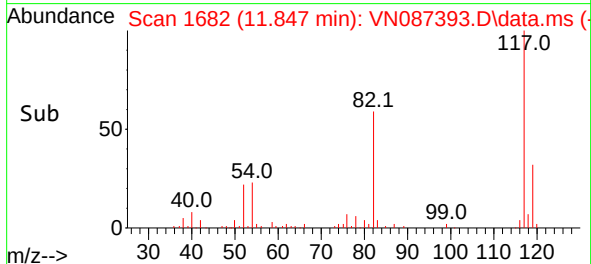
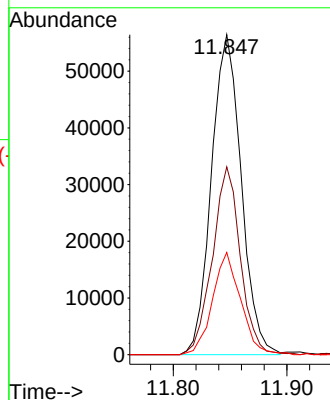
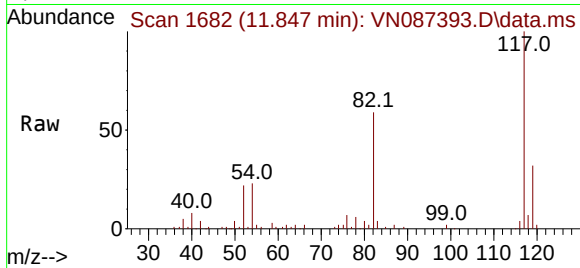




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. -0.018 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

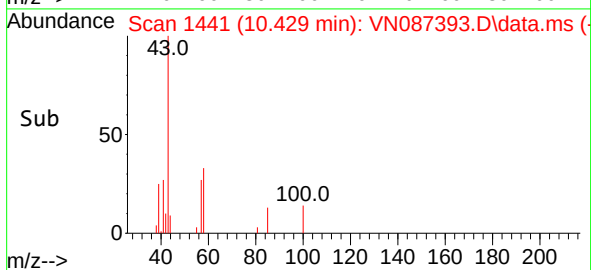
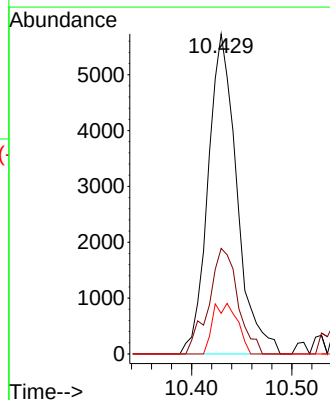
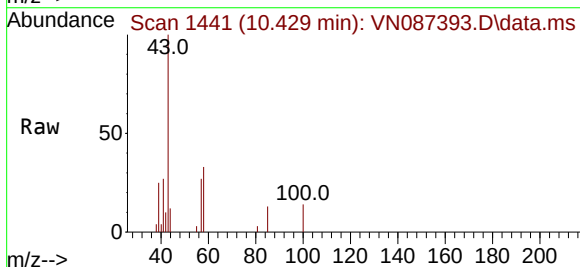
Instrument :
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ClientSampleId :
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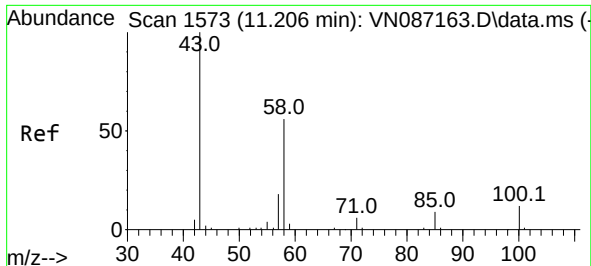
Tgt Ion:117 Resp: 102924
Ion Ratio Lower Upper
117 100
82 55.1 45.4 68.2
119 30.2 26.2 39.4



#58
4-Methyl-2-Pentanone
Concen: 5.524 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. -0.018 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

Tgt Ion: 43 Resp: 11429
Ion Ratio Lower Upper
43 100
58 33.2 32.6 49.0
85 6.0 14.6 22.0#

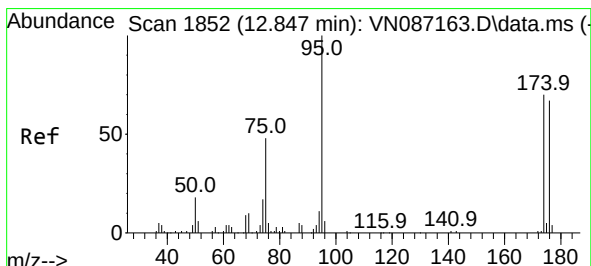
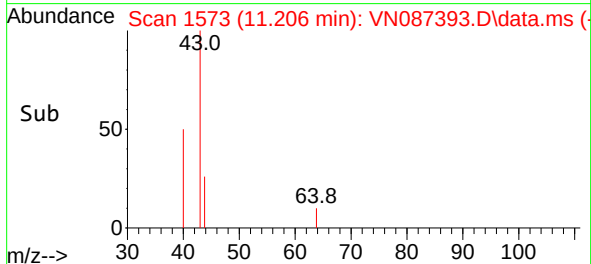
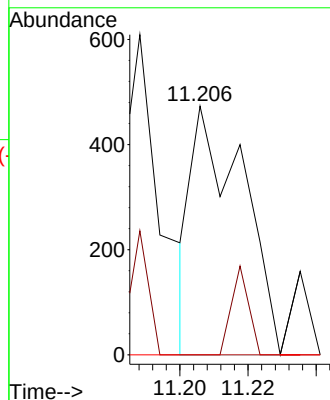
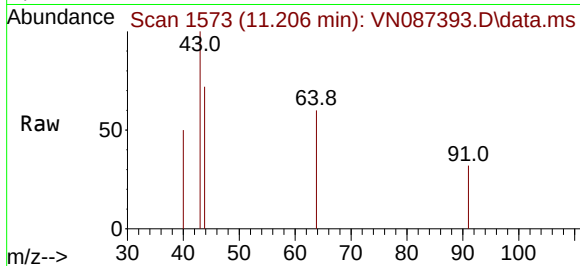




#59
2-Hexanone
Concen: 0.367 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

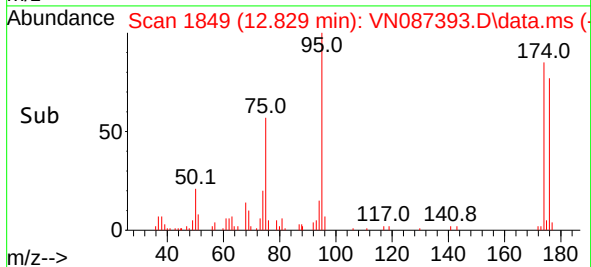
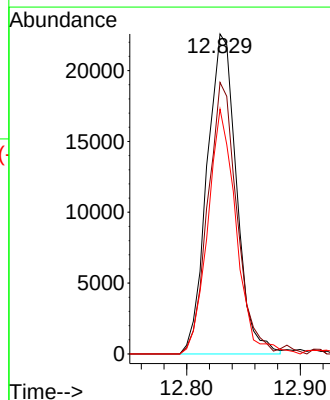
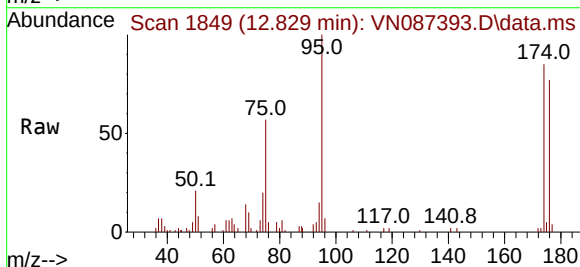
Instrument :
MSVOA_N
ClientSampleId :
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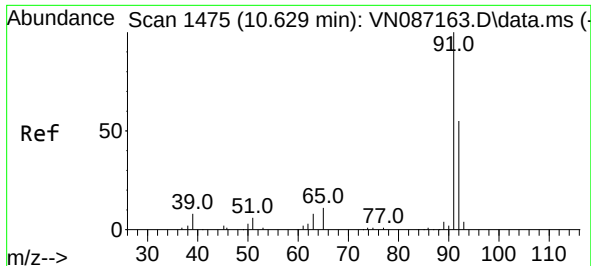
Tgt Ion: 43 Resp: 490
Ion Ratio Lower Upper
43 100
58 0.0 49.2 73.8#
57 0.0 15.3 22.9#



#60
4-Bromofluorobenzene
Concen: 25.698 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.018 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

Tgt Ion: 95 Resp: 40814
Ion Ratio Lower Upper
95 100
174 83.3 54.5 81.7#
176 71.5 51.9 77.9

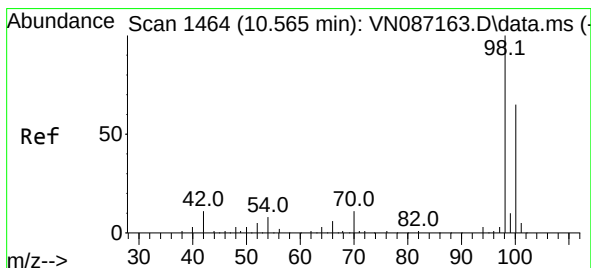
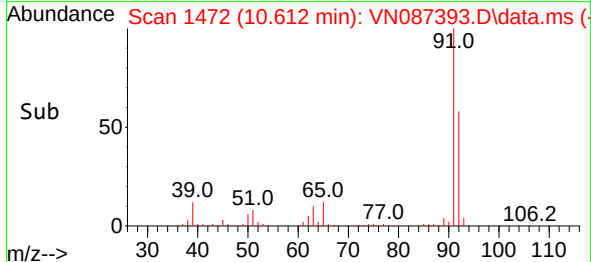
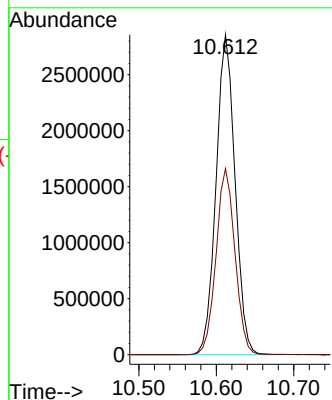
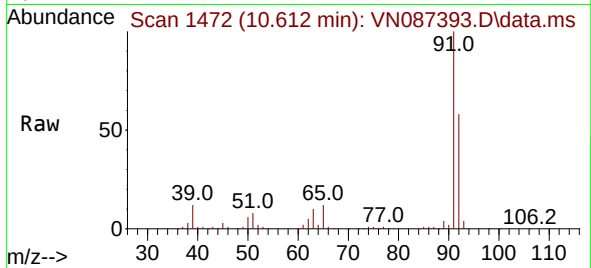




#62
Toluene
Concen: 839.597 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.018 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

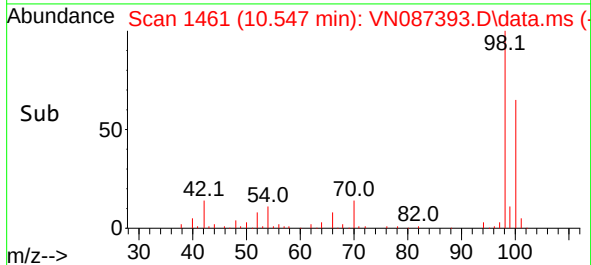
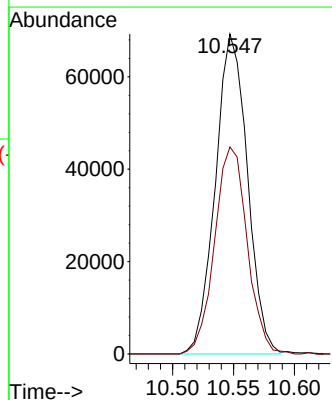
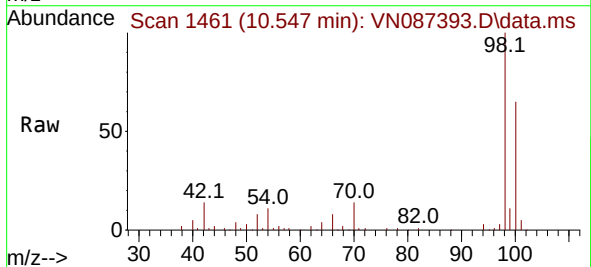
Instrument :
MSVOA_N
ClientSampleId :
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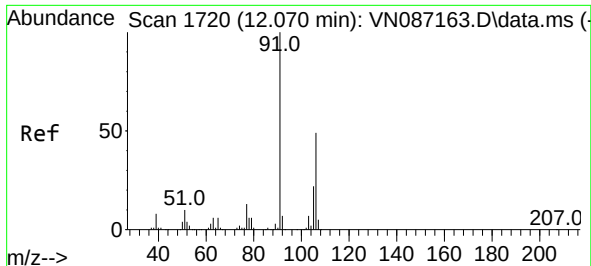
Tgt Ion: 91 Resp: 4880565
Ion Ratio Lower Upper
91 100
92 58.1 45.8 68.8



#63
Toluene-d8
Concen: 27.473 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.018 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

Tgt Ion: 98 Resp: 126960
Ion Ratio Lower Upper
98 100
100 65.6 52.5 78.7

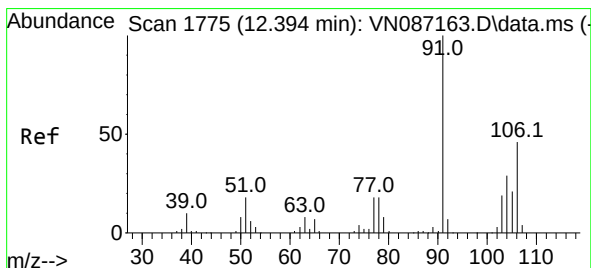
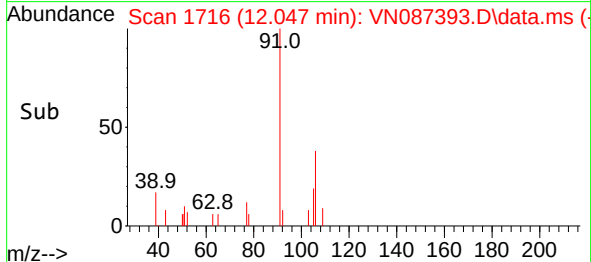
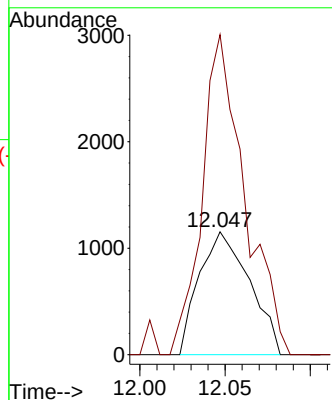
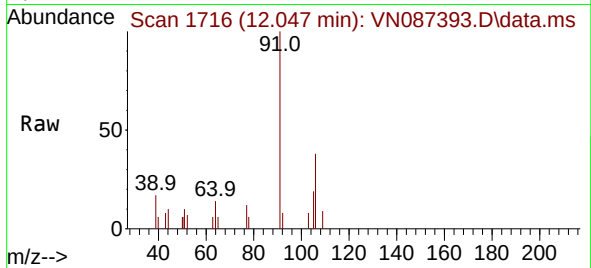




#67
m/p-Xylenes
Concen: 0.973 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.023 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

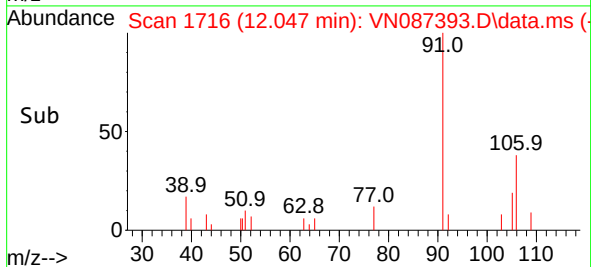
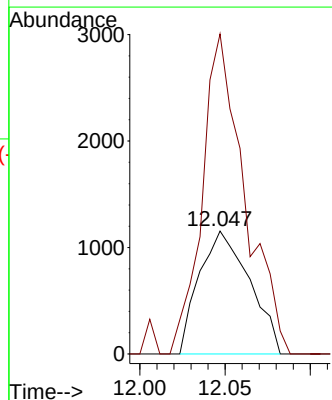
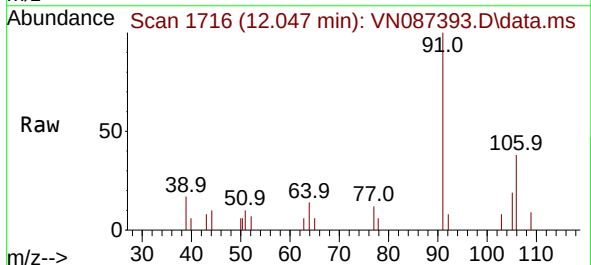
Instrument :
MSVOA_N
ClientSampleId :
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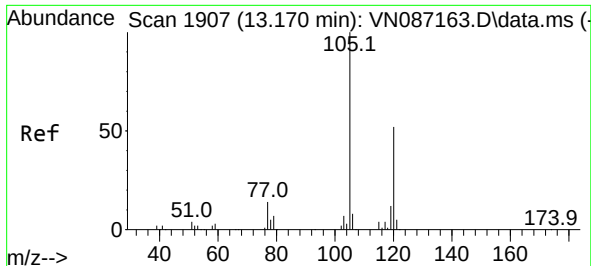
Tgt Ion:106 Resp: 2373
Ion Ratio Lower Upper
106 100
91 190.4 163.0 244.4



#68
o-Xylene
Concen: 1.020 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.347 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

Tgt Ion:106 Resp: 2373
Ion Ratio Lower Upper
106 100
91 190.4 107.1 321.1

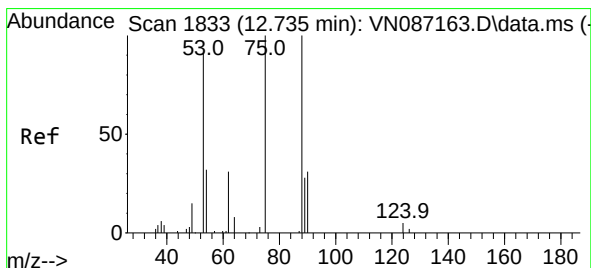
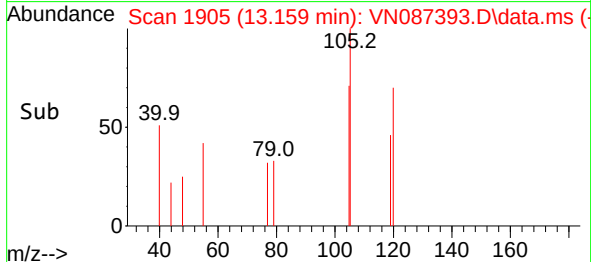
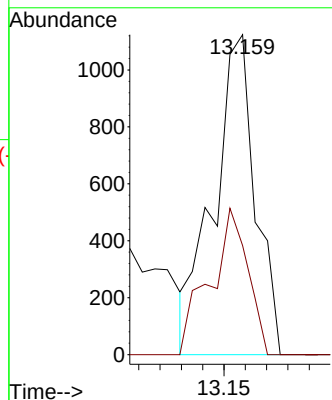
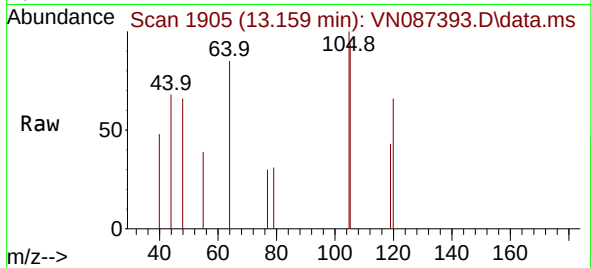




#76
 1,3,5-Trimethylbenzene
 Concen: 0.322 ug/l
 RT: 13.159 min Scan# 1905
 Delta R.T. -0.012 min
 Lab File: VN087393.D
 Acq: 22 Jul 2025 16:46

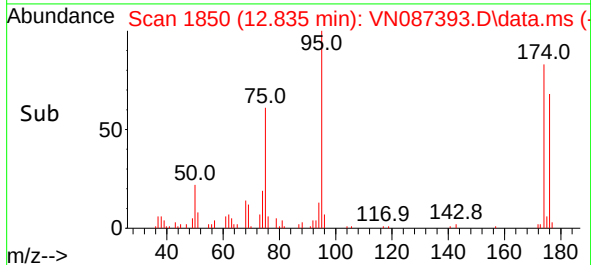
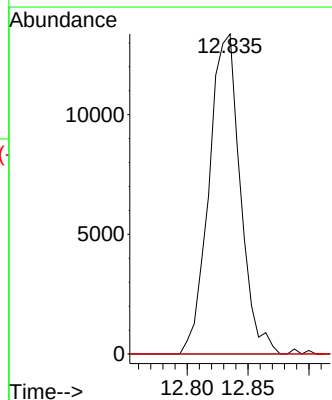
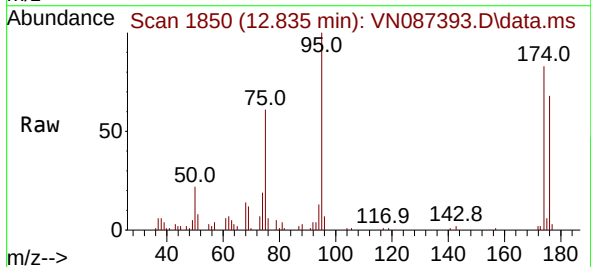
Instrument :
 MSVOA_N
 ClientSampleId :
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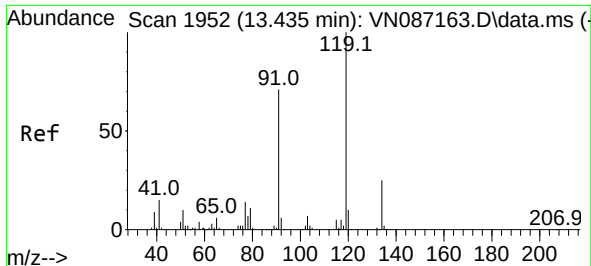
Tgt Ion:105 Resp: 1519
 Ion Ratio Lower Upper
 105 100
 120 25.5 0.0 100.8



#77
 t-1,4-Dichloro-2-butene
 Concen: 29.932 ug/l
 RT: 12.835 min Scan# 1850
 Delta R.T. 0.100 min
 Lab File: VN087393.D
 Acq: 22 Jul 2025 16:46

Tgt Ion: 75 Resp: 23875
 Ion Ratio Lower Upper
 75 100
 53 0.0 45.9 137.6#
 89 0.0 22.3 66.9#

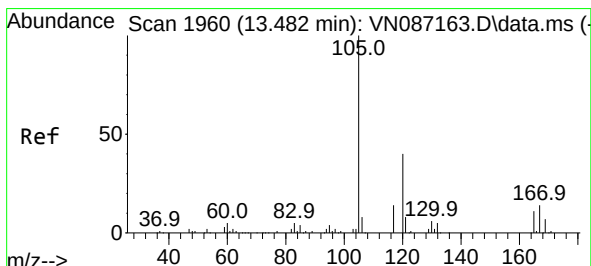
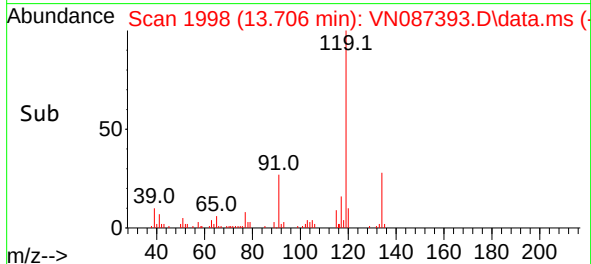
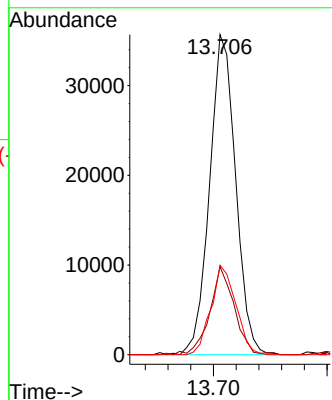
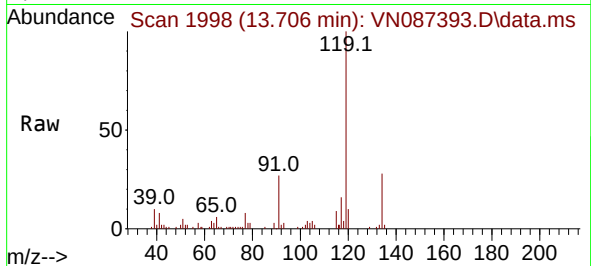




#79
tert-butylbenzene
Concen: 14.331 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.271 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

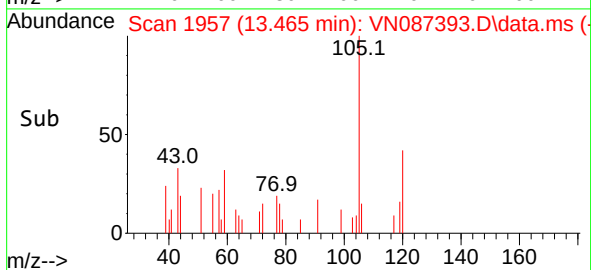
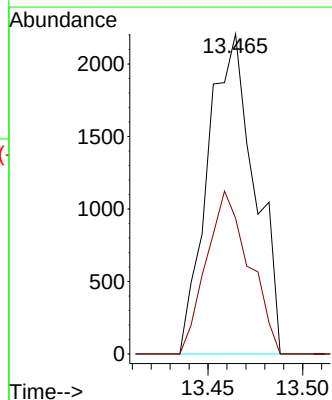
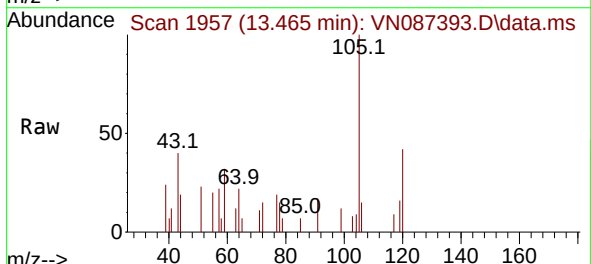
Instrument :
MSVOA_N
ClientSampleId :
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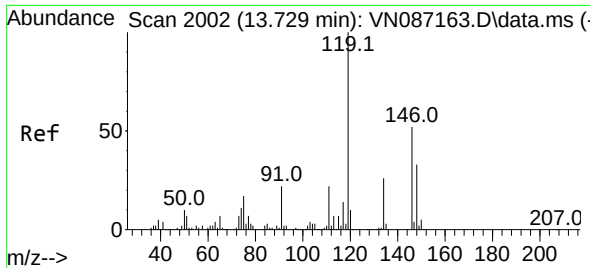
Tgt Ion:119 Resp: 56813
Ion Ratio Lower Upper
119 100
91 25.6 0.0 137.0
134 26.6 0.0 49.4



#80
1,2,4-Trimethylbenzene
Concen: 0.799 ug/l
RT: 13.465 min Scan# 1957
Delta R.T. -0.018 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

Tgt Ion:105 Resp: 3786
Ion Ratio Lower Upper
105 100
120 46.8 0.0 94.0

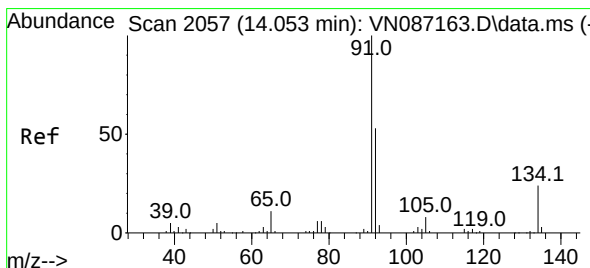
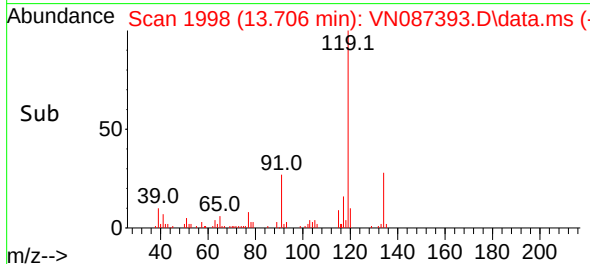
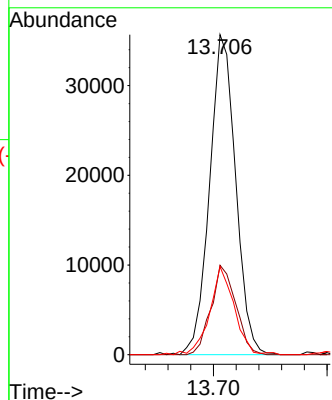
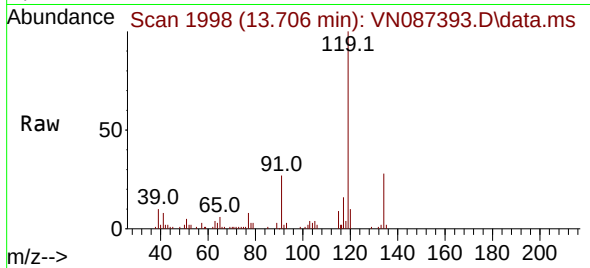




#82
p-Isopropyltoluene
Concen: 11.846 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. -0.023 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

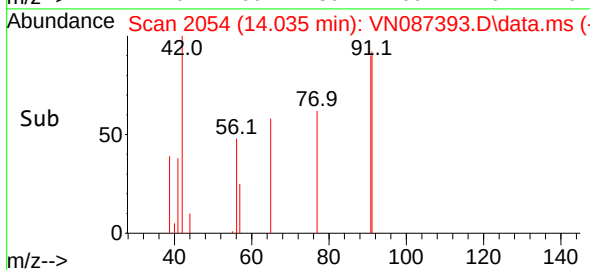
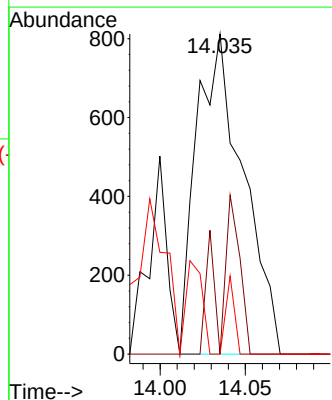
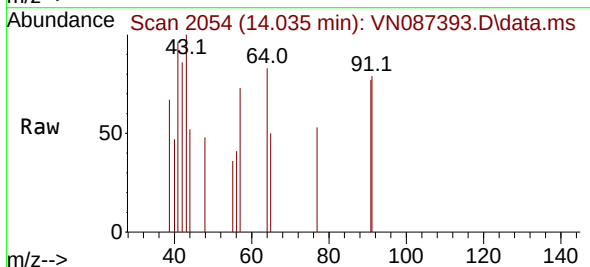
Instrument :
MSVOA_N
ClientSampleId :
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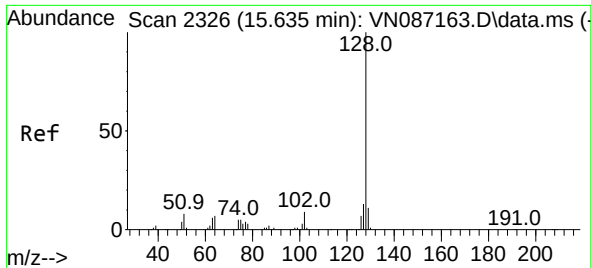
Tgt Ion:	119	Resp:	56813
Ion	Ratio	Lower	Upper
119	100		
134	26.6	0.0	51.2
91	25.6	0.0	46.4



#85
n-Butylbenzene
Concen: 0.353 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. -0.018 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

Tgt Ion:	91	Resp:	1545
Ion	Ratio	Lower	Upper
91	100		
92	14.8	0.0	106.4
134	0.0	0.0	48.8





#91
Naphthalene
Concen: 0.677 ug/l
RT: 15.617 min Scan# 21
Delta R.T. -0.018 min
Lab File: VN087393.D
Acq: 22 Jul 2025 16:46

Instrument :
MSVOA_N
ClientSampleId :
001 WILLETS PT BLVD (JUNE)

Tgt Ion:	128	Resp:	3844
Ion	Ratio	Lower	Upper
128	100		
127	4.3	10.6	15.8#
129	4.7	8.8	13.2#

