

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112025\
 Data File : VN088330.D
 Acq On : 20 Nov 2025 14:28
 Operator : JC\MD
 Sample : Q3676-04DL 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 21 03:03:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 14 00:49:21 2025
 Response via : Initial Calibration

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

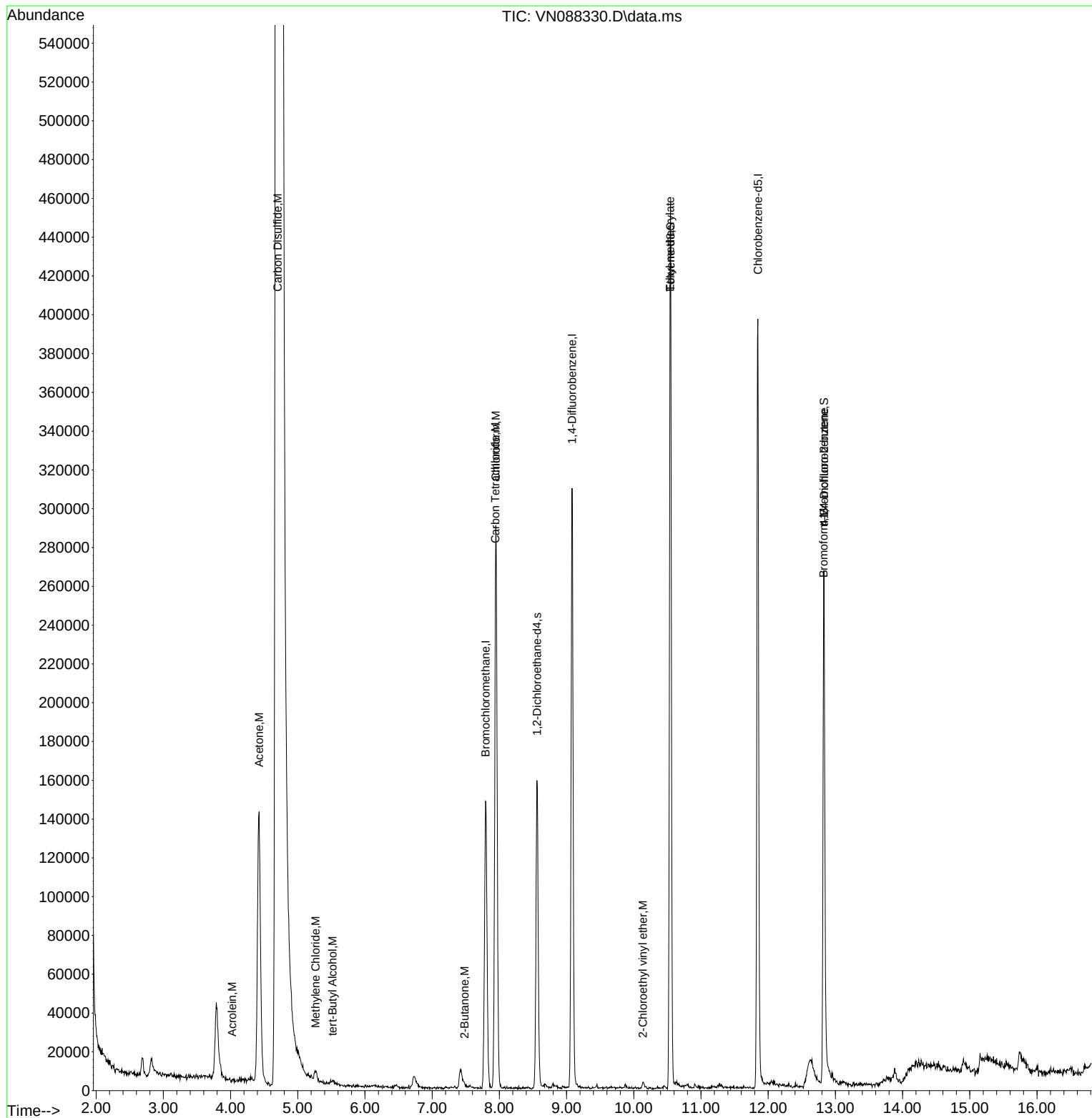
Internal Standards						
1) Bromochloromethane	7.794	128	49691	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	255521	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	221473	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	130145	28.673	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	95.567%
60) 4-Bromofluorobenzene	12.829	95	98672	26.355	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	87.867%
63) Toluene-d8	10.547	98	312806	29.833	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.433%
Target Compounds						
					Qvalue	
13) Acrolein	4.024	56	138	0.213	ug/l	85
15) Acetone	4.424	58	80797	137.933	ug/l	99
16) Carbon Disulfide	4.700	76	3428	0.372	ug/l #	77
18) Methylene Chloride	5.265	84	1263	0.372	ug/l #	84
23) tert-Butyl Alcohol	5.518	59	1583	2.149	ug/l #	100
25) Chloroform	7.947	83	280865	44.340	ug/l	97
30) 2-Butanone	7.483	43	1931	0.700	ug/l #	53
33) Carbon Tetrachloride	7.941	117	3448	0.768	ug/l #	63
51) Ethyl methacrylate	10.541	69	1515	0.315	ug/l	78
55) 2-Chloroethyl vinyl ether	10.135	63	1159	0.419	ug/l #	67
56) Bromoform	12.823	173	530	0.250	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.829	75	55352	39.221	ug/l #	10

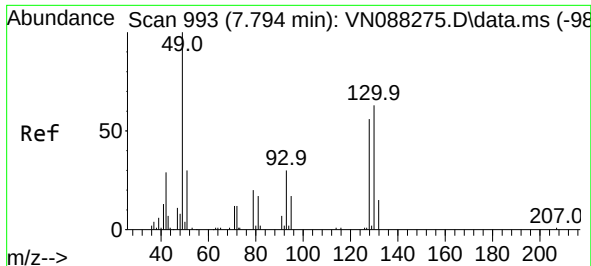
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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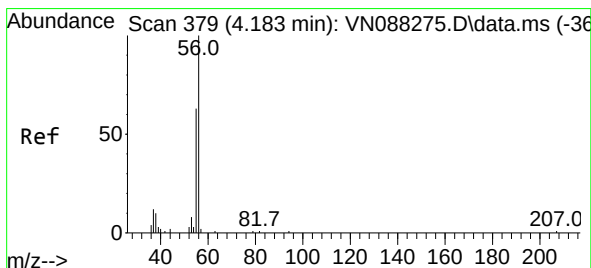
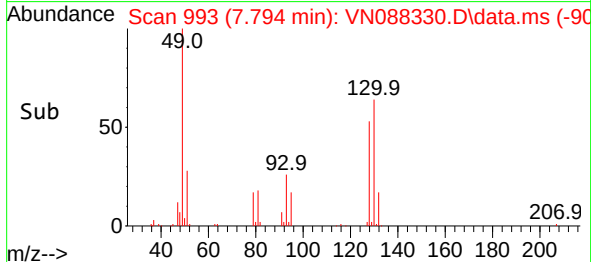
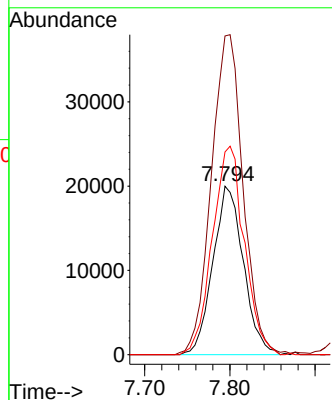
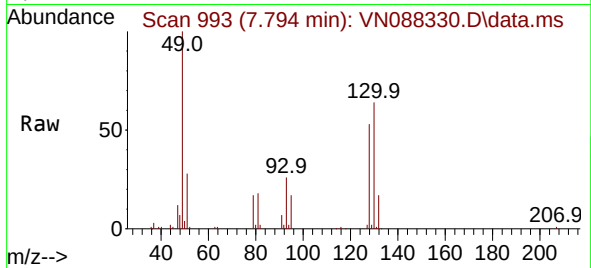




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 993
Delta R.T. 0.000 min
Lab File: VN088330.D
Acq: 20 Nov 2025 14:28

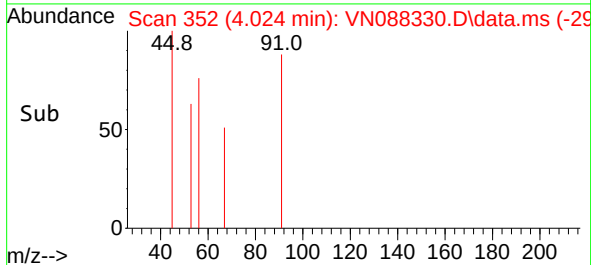
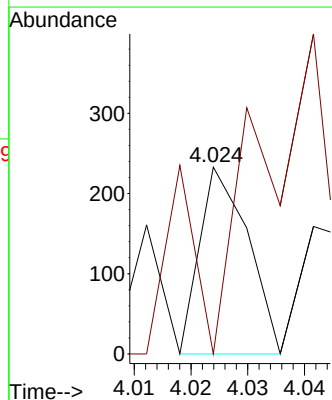
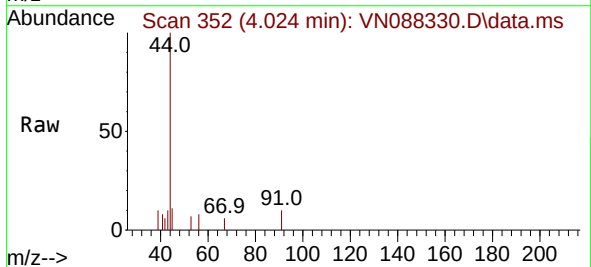
Instrument :
MSVOA_N
ClientSampleId :

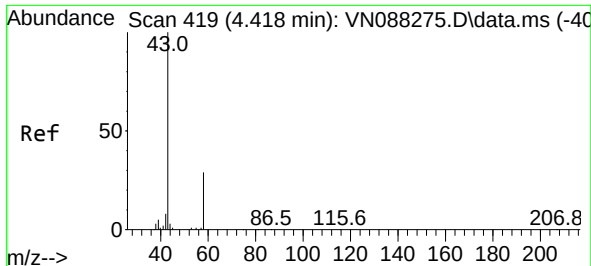
Tgt Ion:128 Resp: 49691
Ion Ratio Lower Upper
128 100
49 197.9 0.0 501.2
130 129.8 0.0 320.2



#13
Acrolein
Concen: 0.213 ug/l
RT: 4.024 min Scan# 352
Delta R.T. -0.159 min
Lab File: VN088330.D
Acq: 20 Nov 2025 14:28

Tgt Ion: 56 Resp: 138
Ion Ratio Lower Upper
56 100
55 60.1 57.9 86.9

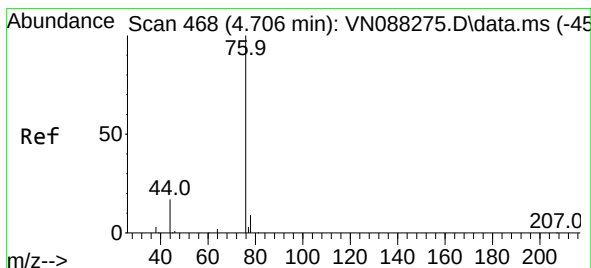
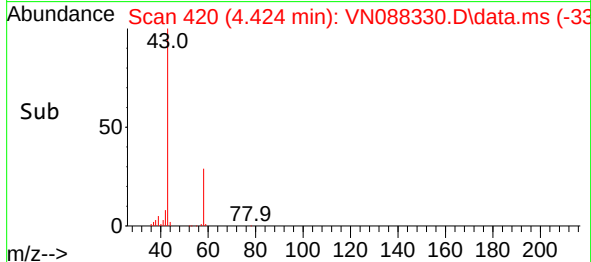
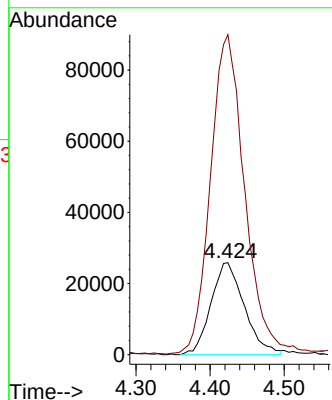
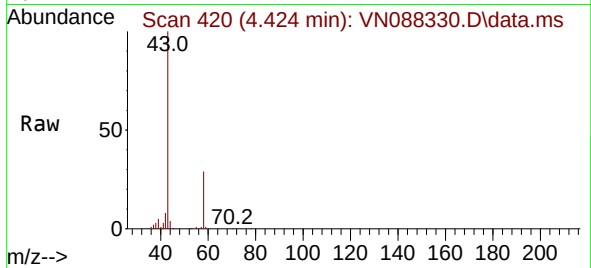




#15
Acetone
Concen: 137.933 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN088330.D
Acq: 20 Nov 2025 14:28

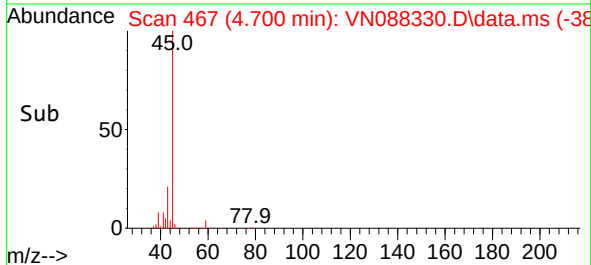
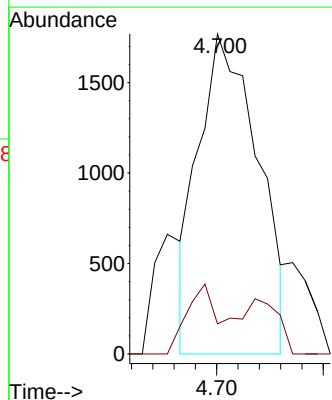
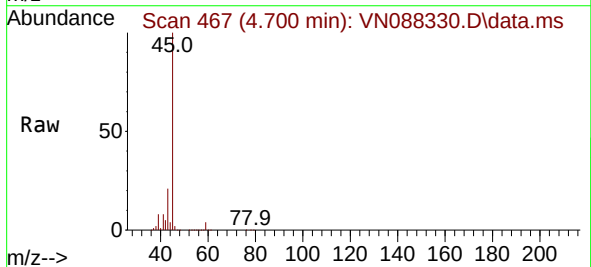
Instrument :
MSVOA_N
ClientSampleId :

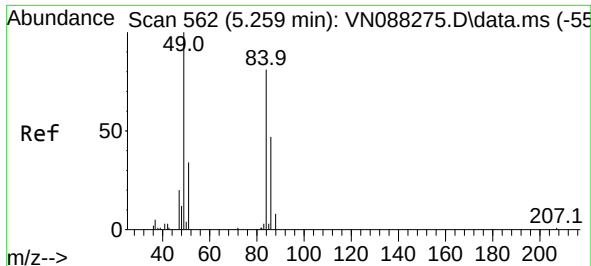
Tgt Ion: 58 Resp: 80797
Ion Ratio Lower Upper
58 100
43 344.7 273.9 410.9



#16
Carbon Disulfide
Concen: 0.372 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.006 min
Lab File: VN088330.D
Acq: 20 Nov 2025 14:28

Tgt Ion: 76 Resp: 3428
Ion Ratio Lower Upper
76 100
78 1.2 7.5 11.3#





#18

Methylene Chloride

Concen: 0.372 ug/l

RT: 5.265 min Scan# 5

Delta R.T. 0.006 min

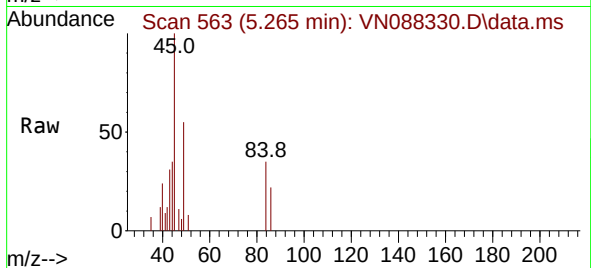
Lab File: VN088330.D

Acq: 20 Nov 2025 14:28

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 1263

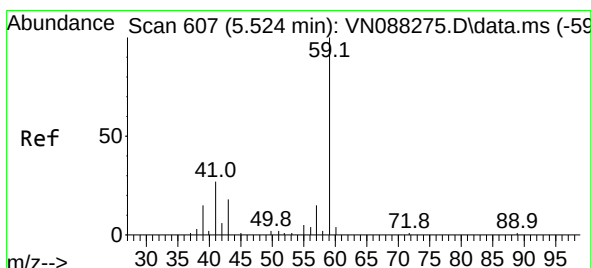
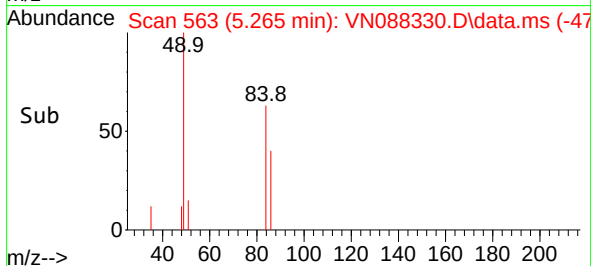
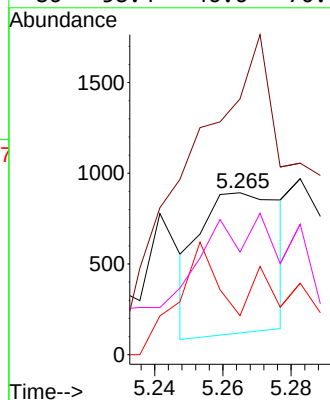
Ion Ratio Lower Upper

84 100

49 131.0 98.7 148.1

51 0.0 33.7 50.5#

86 58.4 46.6 70.0



#23

tert-Butyl Alcohol

Concen: 2.149 ug/l

RT: 5.518 min Scan# 606

Delta R.T. -0.006 min

Lab File: VN088330.D

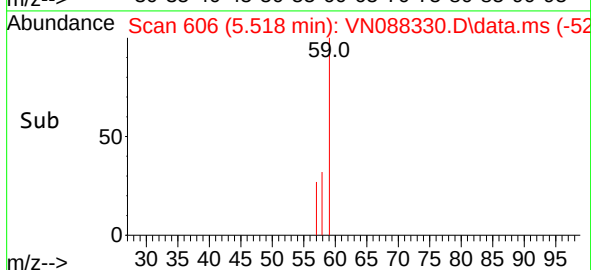
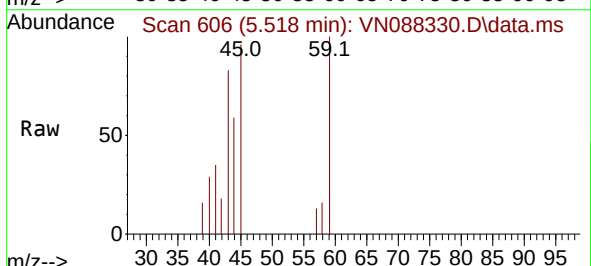
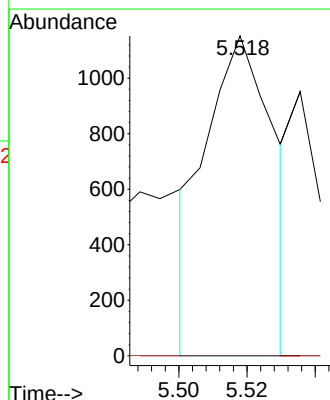
Acq: 20 Nov 2025 14:28

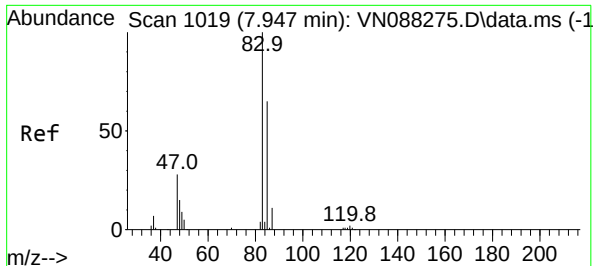
Tgt Ion: 59 Resp: 1583

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0





#25

Chloroform

Concen: 44.340 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. -0.000 min

Lab File: VN088330.D

Acq: 20 Nov 2025 14:28

Instrument :

MSVOA_N

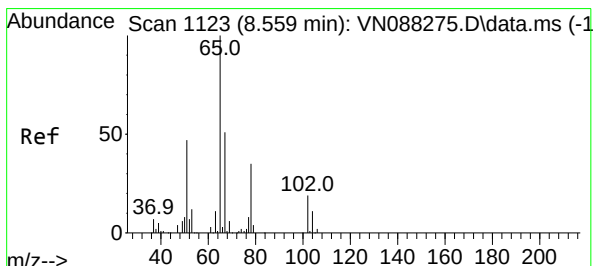
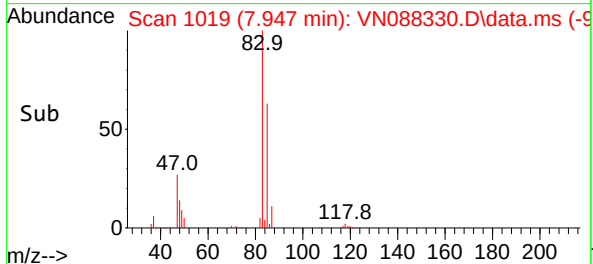
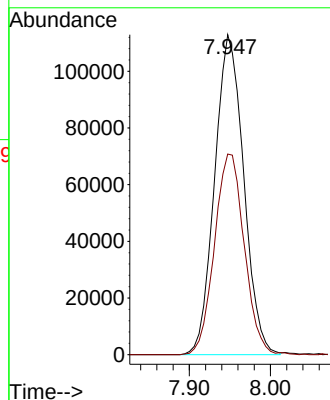
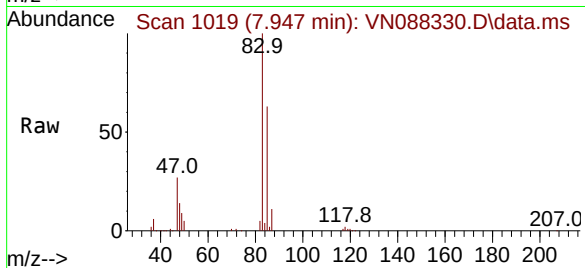
ClientSampleId :

Tgt Ion: 83 Resp: 280865

Ion Ratio Lower Upper

83 100

85 62.7 52.2 78.4



#27

1,2-Dichloroethane-d4

Concen: 28.673 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088330.D

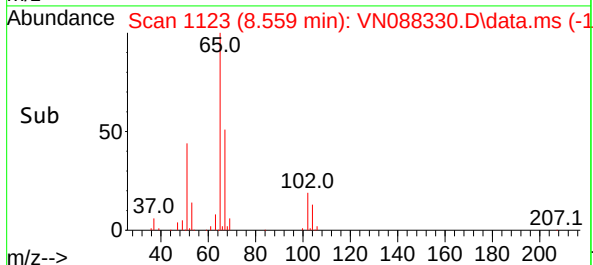
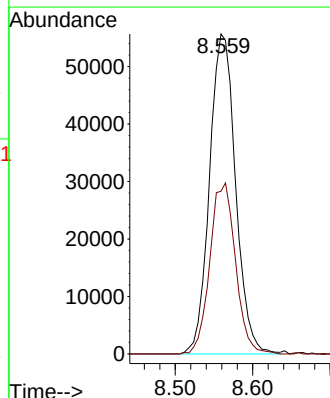
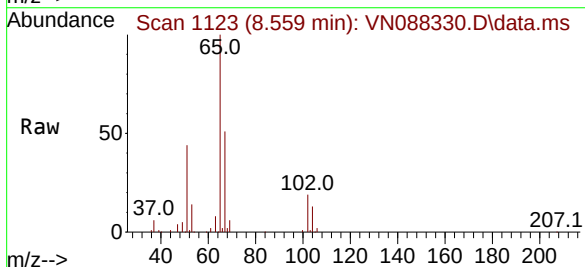
Acq: 20 Nov 2025 14:28

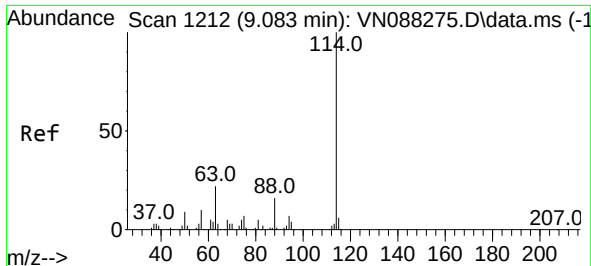
Tgt Ion: 65 Resp: 130145

Ion Ratio Lower Upper

65 100

67 52.6 40.2 60.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN088330.D

Acq: 20 Nov 2025 14:28

Instrument :

MSVOA_N

ClientSampleId :

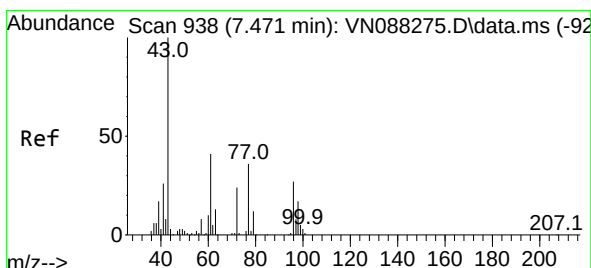
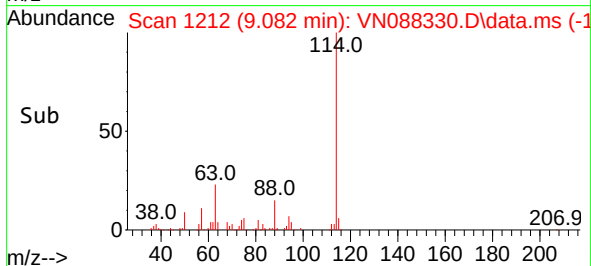
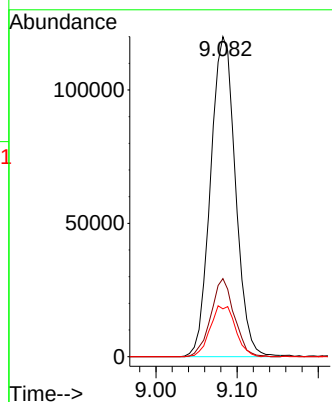
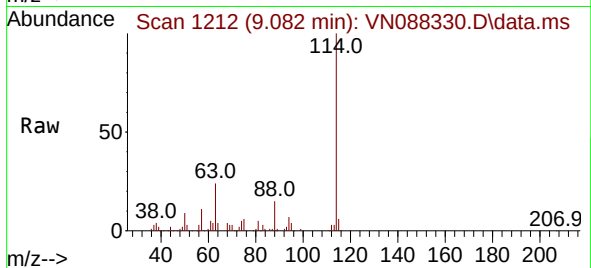
Tgt Ion:114 Resp: 255521

Ion Ratio Lower Upper

114 100

63 22.9 18.9 28.3

88 16.1 12.8 19.2



#30

2-Butanone

Concen: 0.700 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.012 min

Lab File: VN088330.D

Acq: 20 Nov 2025 14:28

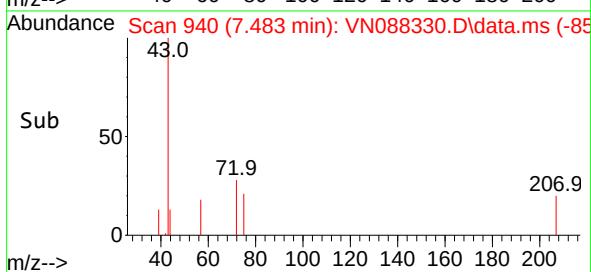
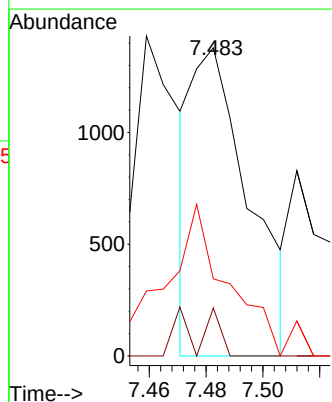
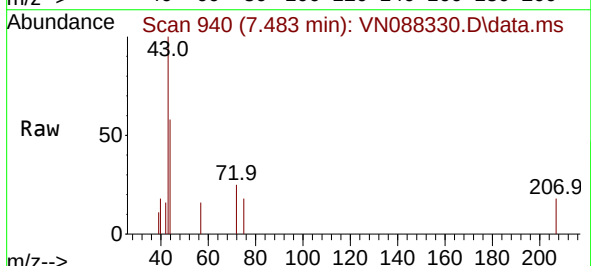
Tgt Ion: 43 Resp: 1931

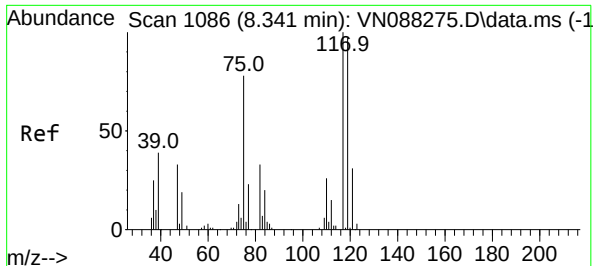
Ion Ratio Lower Upper

43 100

57 4.0 6.2 9.4#

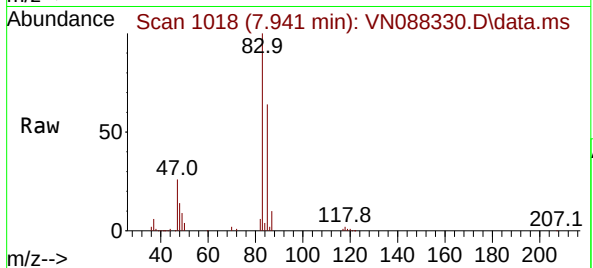
72 53.3 19.4 29.2#



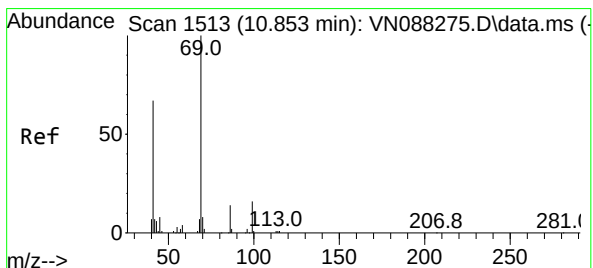
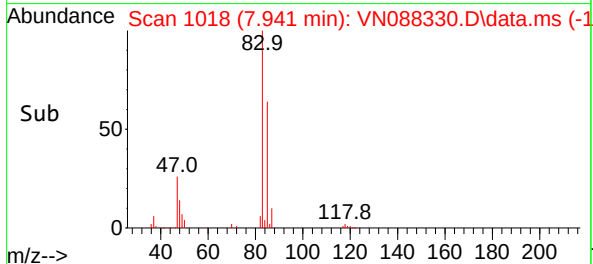
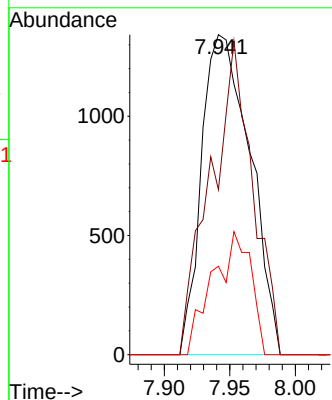


#33
Carbon Tetrachloride
Concen: 0.768 ug/l
RT: 7.941 min Scan# 1018
Delta R.T. -0.400 min
Lab File: VN088330.D
Acq: 20 Nov 2025 14:28

Instrument :
MSVOA_N
ClientSampleId :

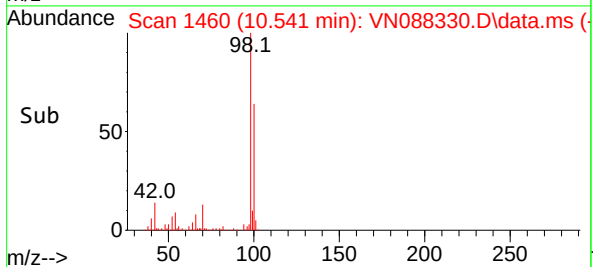
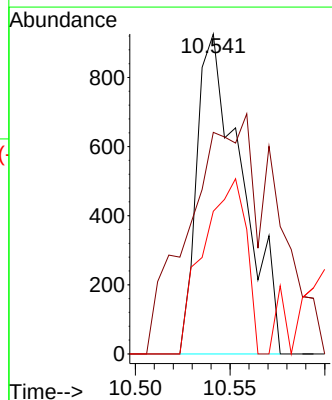
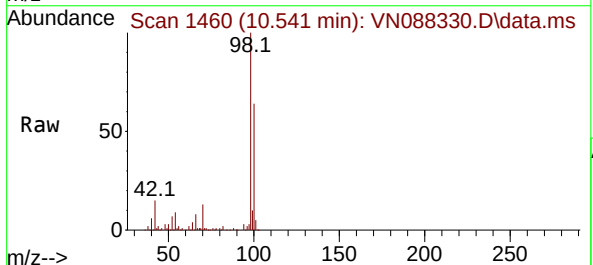


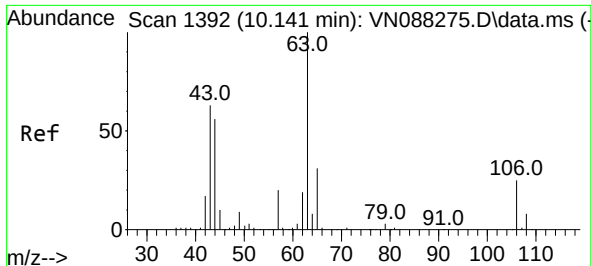
Tgt Ion:117 Resp: 3448
Ion Ratio Lower Upper
117 100
119 51.6 77.8 116.8#
121 27.6 24.5 36.7



#51
Ethyl methacrylate
Concen: 0.315 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.312 min
Lab File: VN088330.D
Acq: 20 Nov 2025 14:28

Tgt Ion: 69 Resp: 1515
Ion Ratio Lower Upper
69 100
41 39.0 33.6 100.8
39 44.6 23.4 70.2

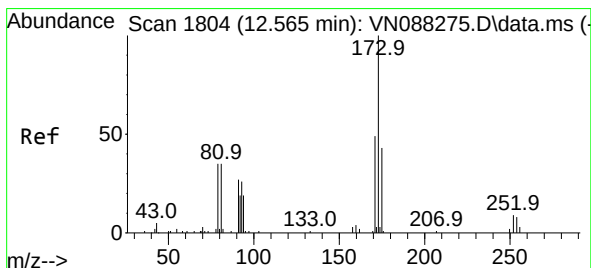
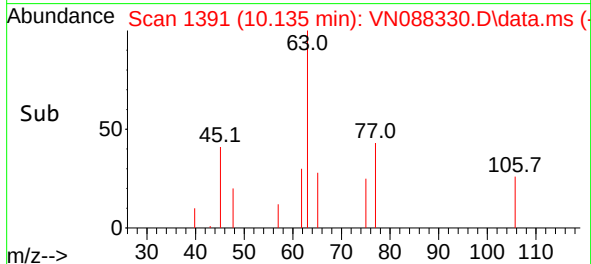
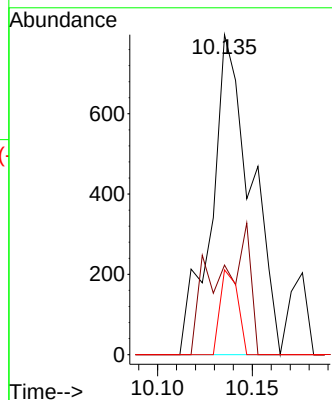
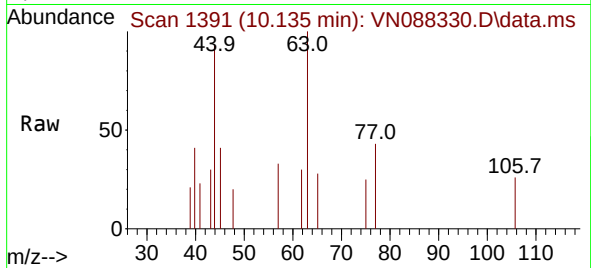




#55
2-Chloroethyl vinyl ether
Concen: 0.419 ug/l
RT: 10.135 min Scan# 1159
Delta R.T. -0.006 min
Lab File: VN088330.D
Acq: 20 Nov 2025 14:28

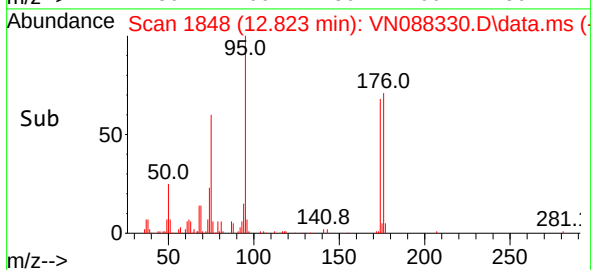
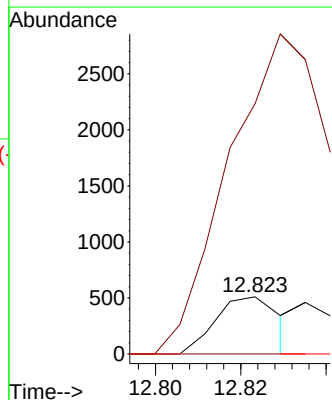
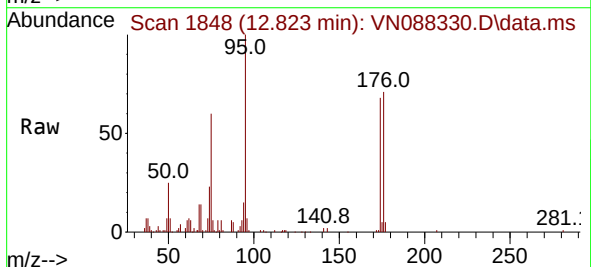
Instrument :
MSVOA_N
ClientSampleId :

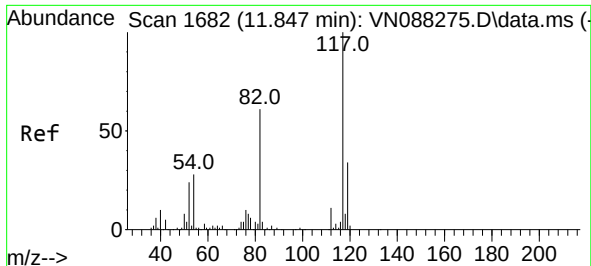
Tgt Ion: 63 Resp: 1159
Ion Ratio Lower Upper
63 100
65 10.0 24.9 37.3#
106 11.8 20.3 30.5#



#56
Bromoform
Concen: 0.250 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.259 min
Lab File: VN088330.D
Acq: 20 Nov 2025 14:28

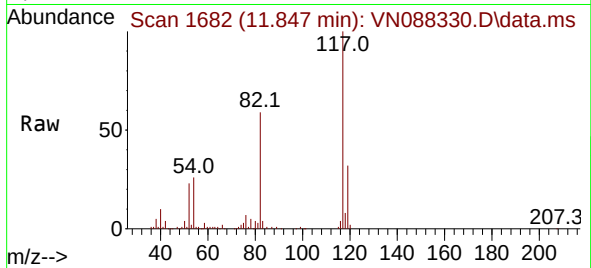
Tgt Ion: 173 Resp: 530
Ion Ratio Lower Upper
173 100
175 1042.3 37.7 56.5#
254 0.0 5.9 8.9#



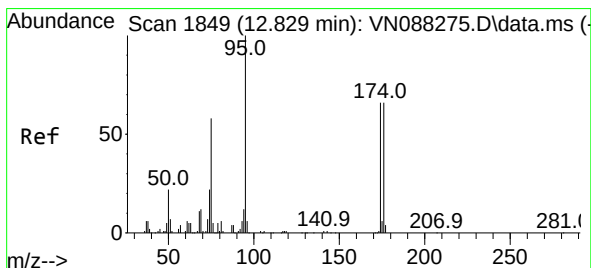
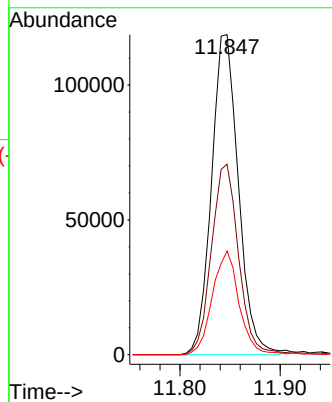
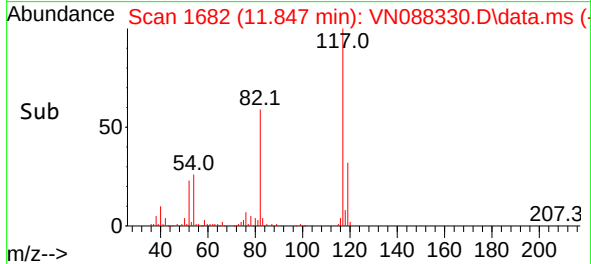


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VN088330.D
Acq: 20 Nov 2025 14:28

Instrument :
MSVOA_N
ClientSampleId :

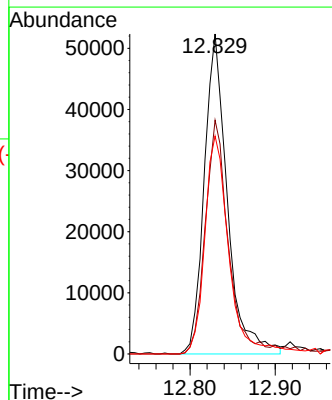
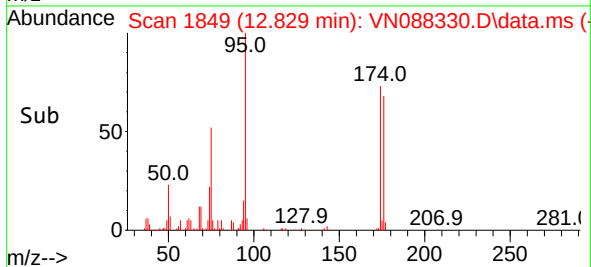
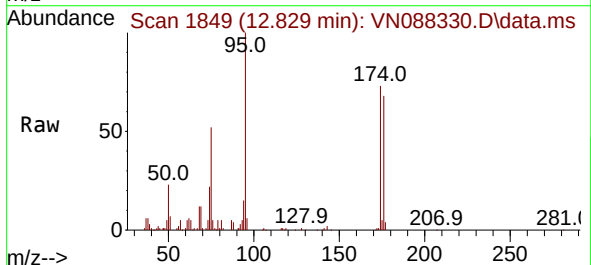


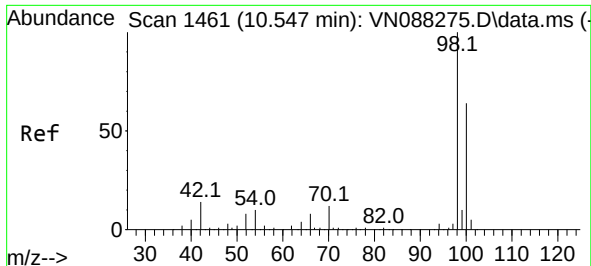
Tgt Ion:117 Resp: 221473
Ion Ratio Lower Upper
117 100
82 59.8 49.3 73.9
119 32.0 26.4 39.6



#60
4-Bromofluorobenzene
Concen: 26.355 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN088330.D
Acq: 20 Nov 2025 14:28

Tgt Ion: 95 Resp: 98672
Ion Ratio Lower Upper
95 100
174 70.8 54.5 81.7
176 68.5 53.8 80.6

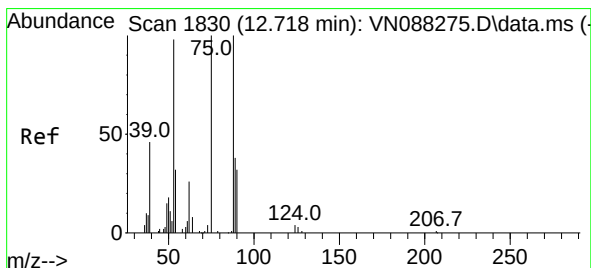
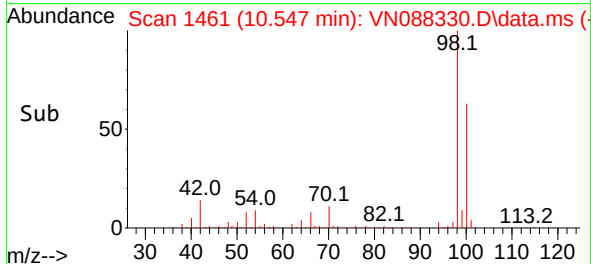
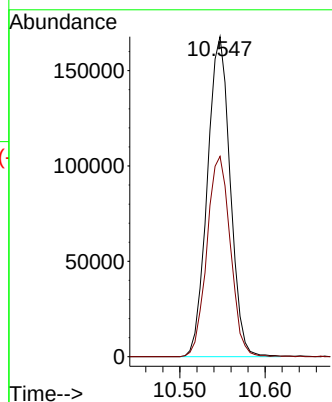
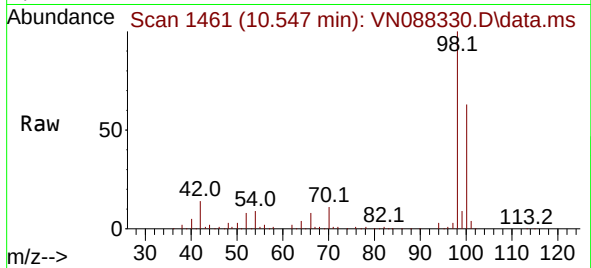




#63
Toluene-d8
Concen: 29.833 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088330.D
Acq: 20 Nov 2025 14:28

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 98 Resp: 312806
Ion Ratio Lower Upper
98 100
100 64.1 51.6 77.4



#77
t-1,4-Dichloro-2-butene
Concen: 39.221 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088330.D
Acq: 20 Nov 2025 14:28

Tgt Ion: 75 Resp: 55352
Ion Ratio Lower Upper
75 100
53 0.0 50.0 150.0#
89 0.0 22.3 66.9#

