

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
 Data File : VN087385.D
 Acq On : 21 Jul 2025 17:07
 Operator : JC\MD
 Sample : Q2646-03 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC TANK

Quant Time: Jul 22 03:11:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.212	168	132035	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	262033	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	246052	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	131454	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	122836	54.829	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 109.660%	
35) Dibromofluoromethane	8.153	113	96675	53.485	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 106.980%	
50) Toluene-d8	10.547	98	330647	51.282	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.560%	
62) 4-Bromofluorobenzene	12.829	95	126507	53.108	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 106.220%	

Target Compounds			Qvalue			
10) Methyl Iodide	4.583	142	58	5.669	ug/l #	40
11) Tert butyl alcohol	5.530	59	535	1.258	ug/l #	72
13) Acrolein	4.177	56	7657	22.429	ug/l	93
16) Acetone	4.424	43	45995	43.787	ug/l	96
17) Carbon Disulfide	4.718	76	7232	1.618	ug/l #	93
18) Methyl Acetate	5.012	43	5555	2.105	ug/l #	88
20) Methylene Chloride	5.253	84	1030	Below Cal	#	47
22) Diisopropyl ether	6.724	45	21786	3.807	ug/l #	1
23) Vinyl Acetate	6.600	43	2946	0.589	ug/l #	74
25) 2-Butanone	7.477	43	367990	226.731	ug/l	99
28) Bromochloromethane	7.783	49	3303	2.090	ug/l #	16
29) Tetrahydrofuran	7.777	42	31545	29.919	ug/l #	49
31) Cyclohexane	8.212	56	3575	1.298	ug/l #	43
36) 1,1-Dichloropropene	8.212	75	11817	4.948	ug/l #	52
37) Ethyl Acetate	7.553	43	34609	10.035	ug/l	98
38) Carbon Tetrachloride	8.212	117	14143	5.376	ug/l #	18
40) Benzene	8.594	78	7678	0.995	ug/l	99
41) Methacrylonitrile	7.777	41	162146	89.913	ug/l #	45
48) Methyl methacrylate	9.641	41	5679	2.356	ug/l #	46
51) 4-Methyl-2-Pentanone	10.547	43	9390	2.773	ug/l	96
52) Toluene	10.606	92	4803	1.024	ug/l	85
56) Ethyl methacrylate	10.859	69	96	0.666	ug/l #	24
59) 2-Hexanone	11.182	43	7172	3.192	ug/l	70
65) Chlorobenzene	12.024	112	4839	0.876	ug/l #	61
67) Ethyl Benzene	11.947	91	8824	0.970	ug/l #	53
68) m/p-Xylenes	12.047	106	7752	2.276	ug/l	99
69) o-Xylene	12.382	106	5115	1.572	ug/l	96
73) Isopropylbenzene	12.676	105	2310	0.279	ug/l	88
74) N-amyl acetate	12.453	43	812	0.236	ug/l #	58
76) 1,2,3-Trichloropropane	12.829	75	69302	23.510	ug/l #	1
78) n-propylbenzene	13.012	91	7598	0.730	ug/l	96
80) 1,3,5-Trimethylbenzene	13.153	105	8852	1.256	ug/l	93
81) trans-1,4-Dichloro-2-b...	12.829	75	69302	64.327	ug/l #	8
82) 4-Chlorotoluene	13.153	91	1639	0.246	ug/l #	42
83) tert-Butylbenzene	13.659	119	3632	0.617	ug/l	78
84) 1,2,4-Trimethylbenzene	13.459	105	42638	5.923	ug/l	99

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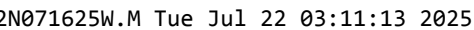
Instrument :
MSVOA_N
ClientSampleId :
FRAC TANK

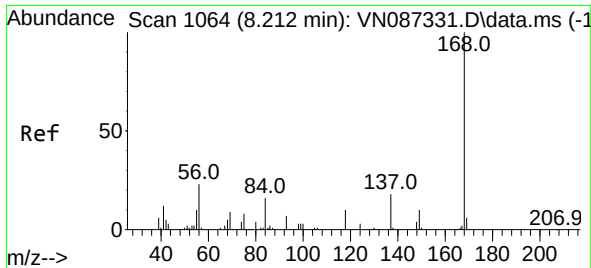
Quant Time: Jul 22 03:11:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
85) sec-Butylbenzene	13.600	105	3485	0.393	ug/l	82
86) p-Isopropyltoluene	13.706	119	1581	0.222	ug/l #	60
89) n-Butylbenzene	14.029	91	3665	0.540	ug/l #	82
90) Hexachloroethane	14.312	117	1420	0.943	ug/l #	17
92) 1,2-Dibromo-3-Chloropr...	14.659	75	231	0.283	ug/l #	7
95) Naphthalene	15.611	128	12073	1.454	ug/l #	91

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

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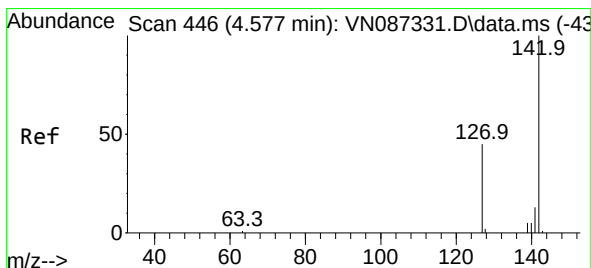
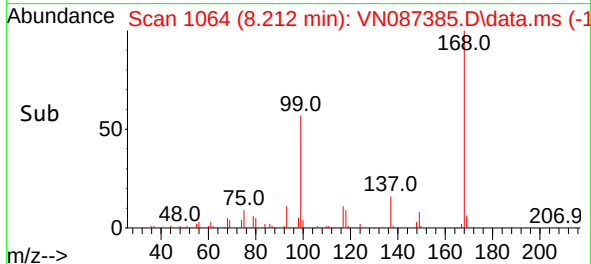
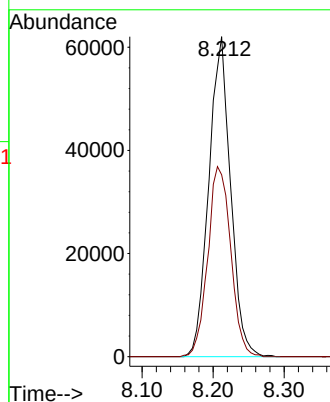
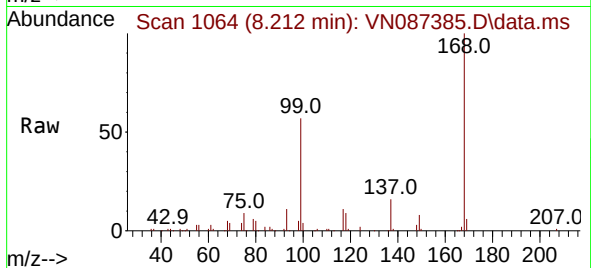




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

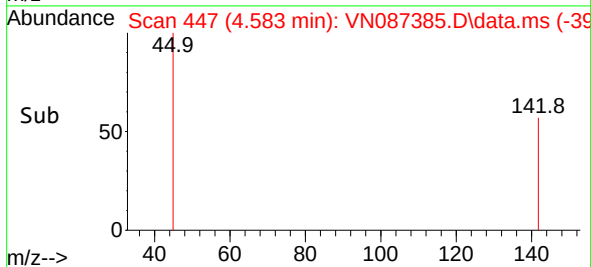
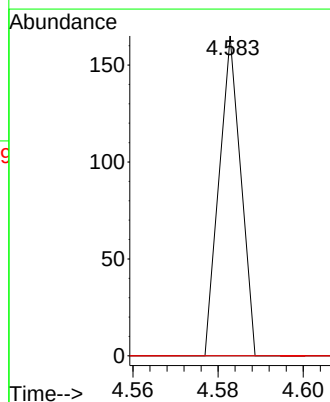
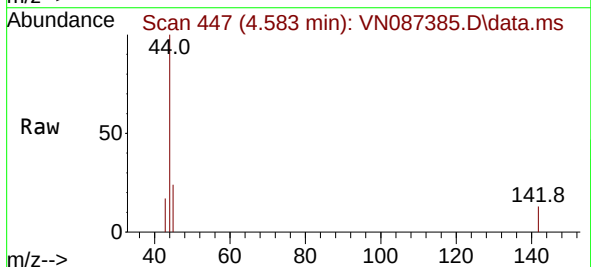
Instrument :
MSVOA_N
ClientSampleId :
FRAC TANK

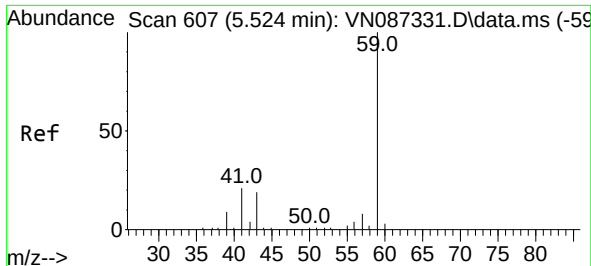
Tgt Ion:168 Resp: 132035
Ion Ratio Lower Upper
168 100
99 56.9 47.9 71.9



#10
Methyl Iodide
Concen: 5.669 ug/l
RT: 4.583 min Scan# 447
Delta R.T. 0.006 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

Tgt Ion:142 Resp: 58
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#

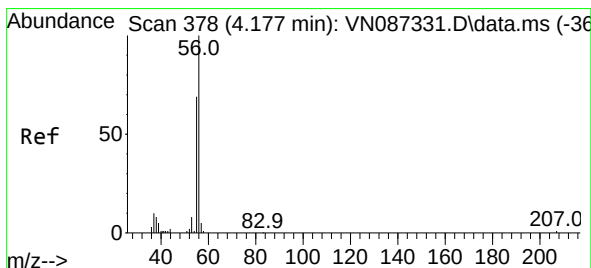
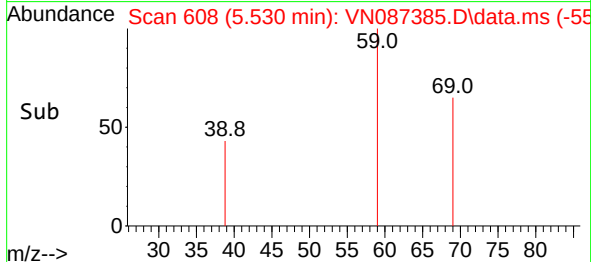
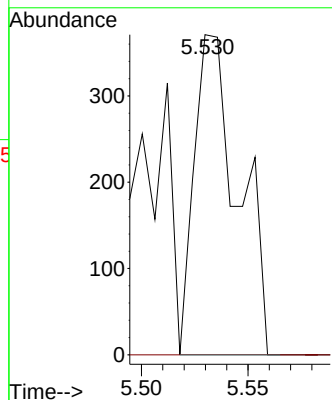
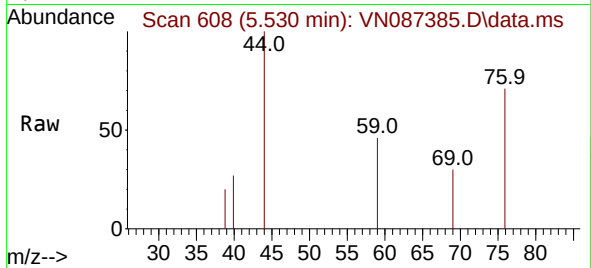




#11
Tert butyl alcohol
Concen: 1.258 ug/l
RT: 5.530 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

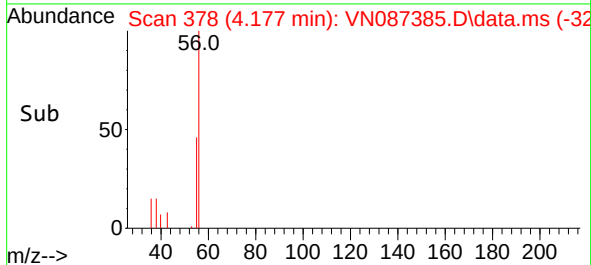
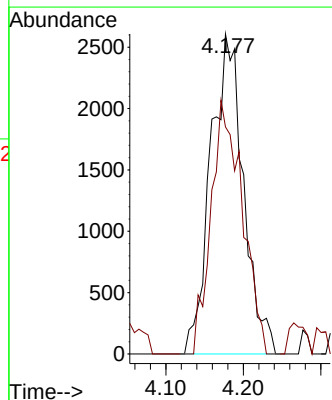
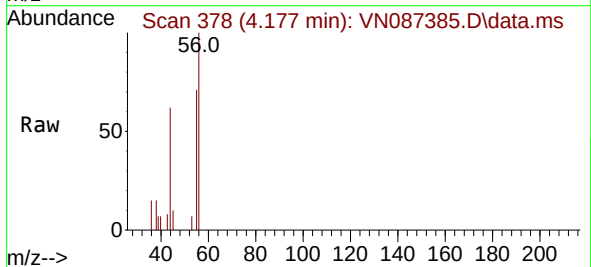
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MSVOA_N
ClientSampleId :
FRAC TANK

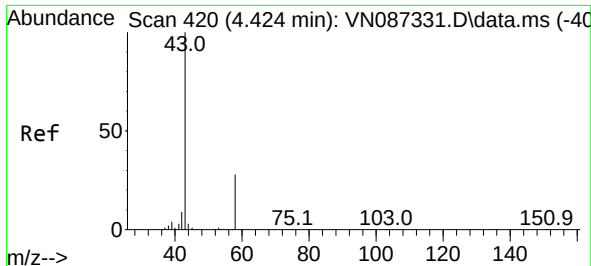
Tgt Ion: 59 Resp: 535
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 22.429 ug/l
RT: 4.177 min Scan# 378
Delta R.T. 0.000 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

Tgt Ion: 56 Resp: 7657
Ion Ratio Lower Upper
56 100
55 75.7 56.2 84.4

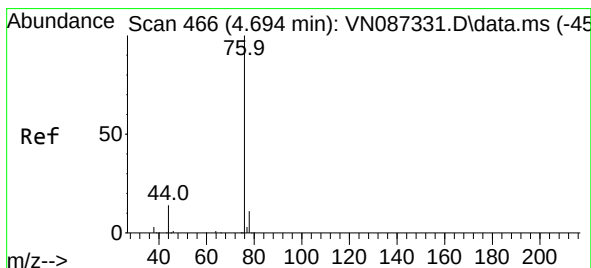
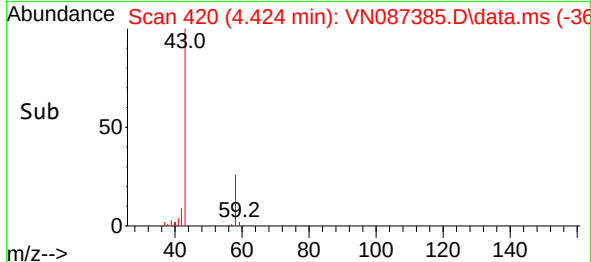
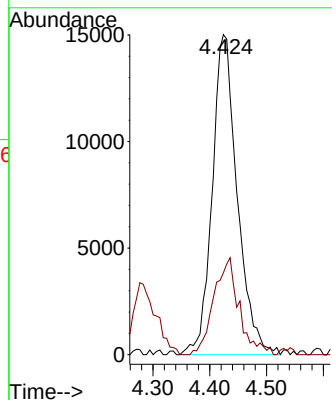
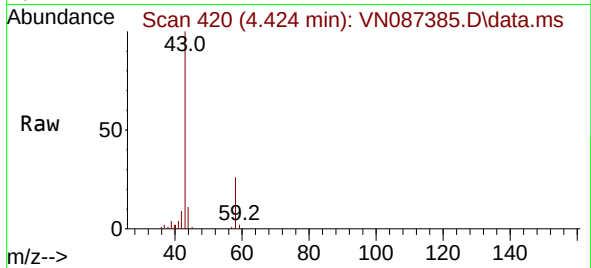




#16
Acetone
Concen: 43.787 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

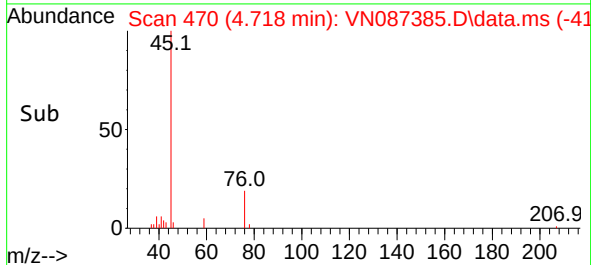
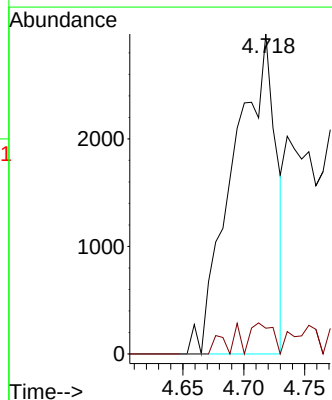
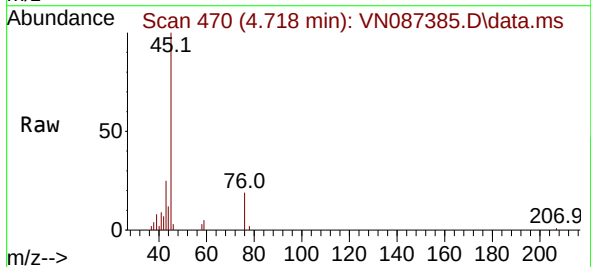
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MSVOA_N
ClientSampleId :
FRAC TANK

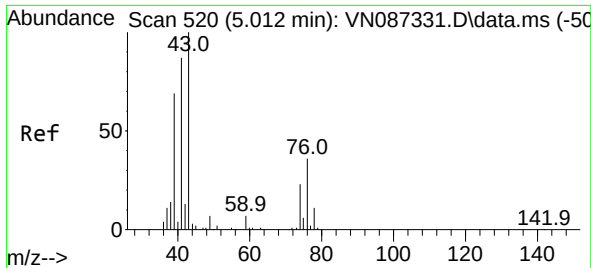
Tgt Ion: 43 Resp: 45995
Ion Ratio Lower Upper
43 100
58 25.6 22.3 33.5



#17
Carbon Disulfide
Concen: 1.618 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.024 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

Tgt Ion: 76 Resp: 7232
Ion Ratio Lower Upper
76 100
78 8.1 8.6 13.0#

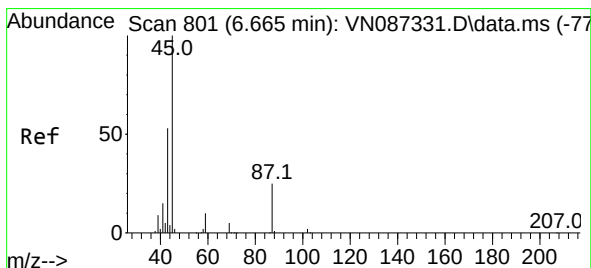
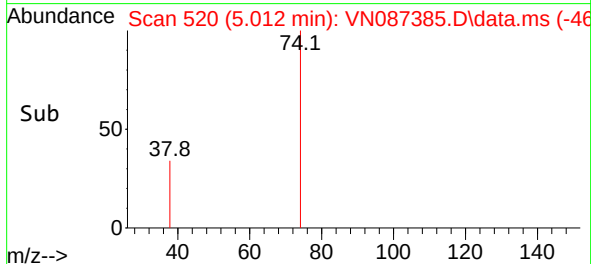
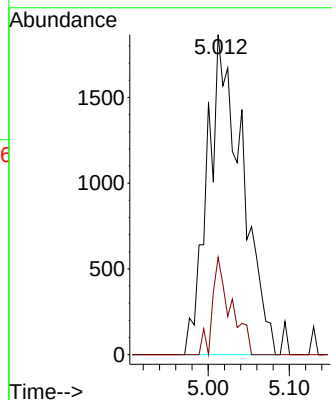
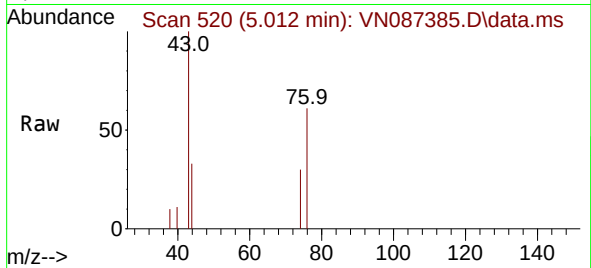




#18
Methyl Acetate
Concen: 2.105 ug/l
RT: 5.012 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

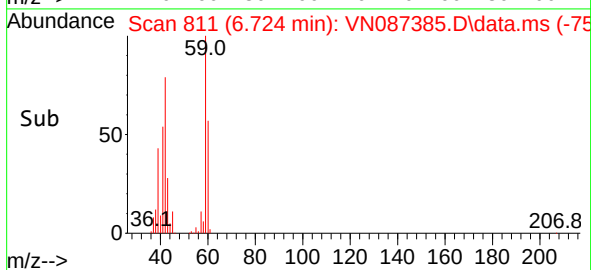
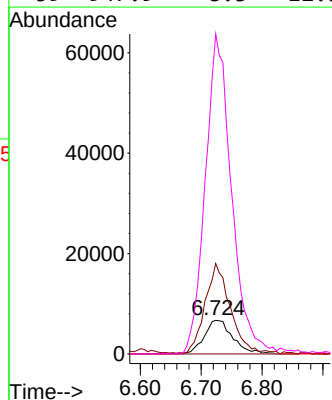
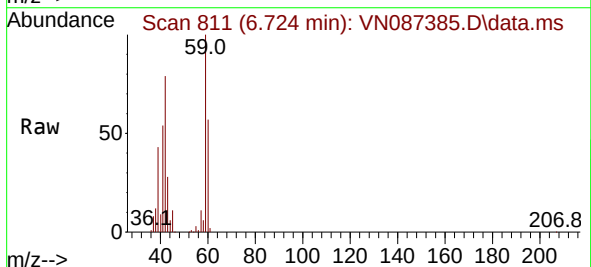
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ClientSampleId :
FRAC TANK

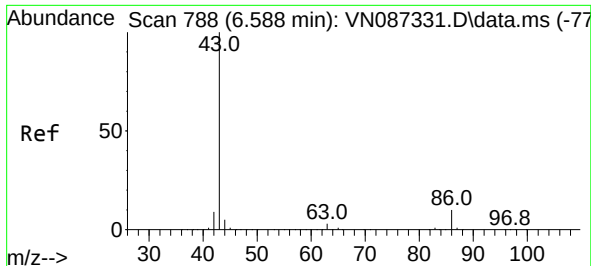
Tgt Ion: 43 Resp: 5555
Ion Ratio Lower Upper
43 100
74 16.2 17.8 26.6#



#22
Diisopropyl ether
Concen: 3.807 ug/l
RT: 6.724 min Scan# 811
Delta R.T. 0.059 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

Tgt Ion: 45 Resp: 21786
Ion Ratio Lower Upper
45 100
43 268.7 42.8 64.2#
87 0.0 19.8 29.6#
59 947.9 8.3 12.5#

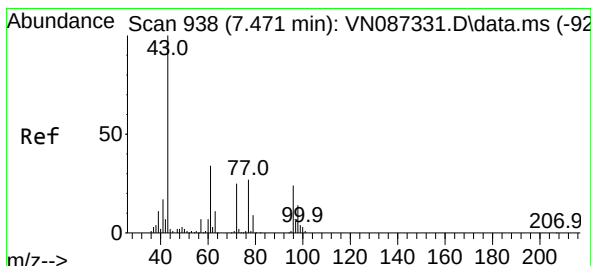
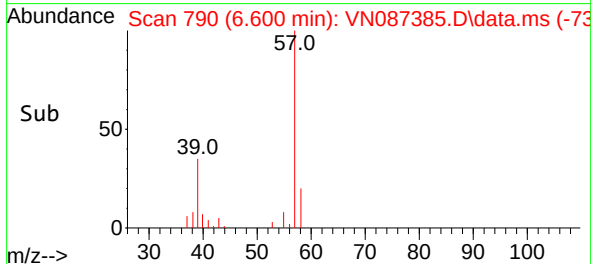
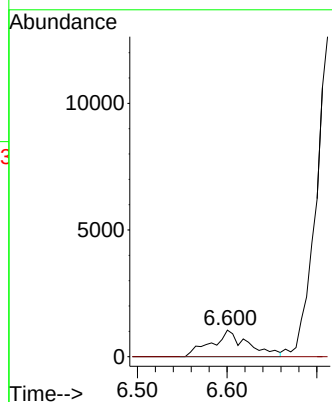
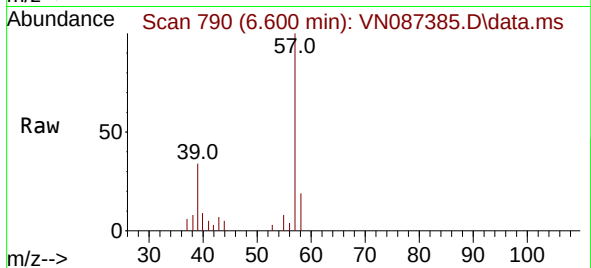




#23
 Vinyl Acetate
 Concen: 0.589 ug/l
 RT: 6.600 min Scan# 790
 Delta R.T. 0.012 min
 Lab File: VN087385.D
 Acq: 21 Jul 2025 17:07

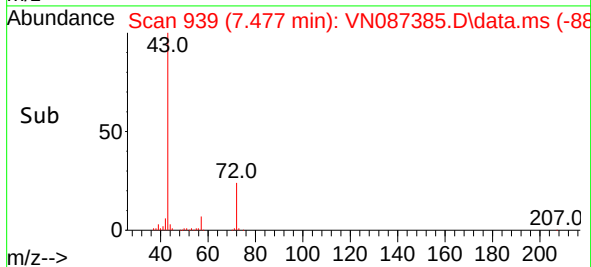
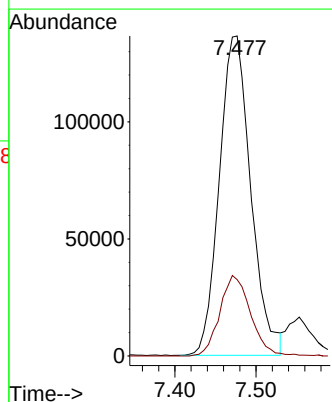
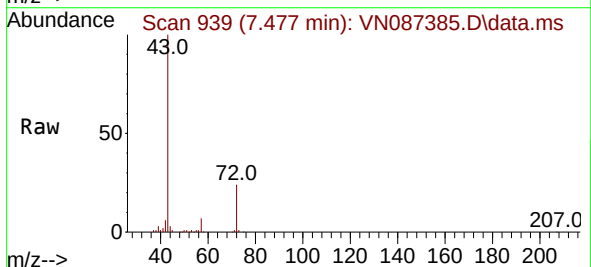
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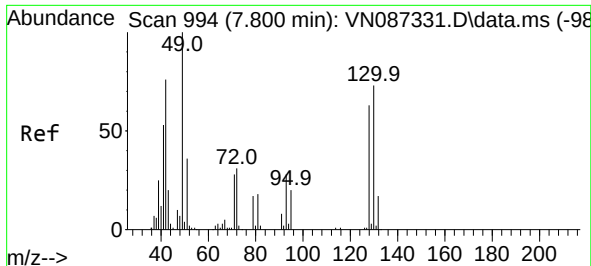
Tgt Ion: 43 Resp: 2946
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.7 11.5#



#25
 2-Butanone
 Concen: 226.731 ug/l
 RT: 7.477 min Scan# 939
 Delta R.T. 0.006 min
 Lab File: VN087385.D
 Acq: 21 Jul 2025 17:07

Tgt Ion: 43 Resp: 367990
 Ion Ratio Lower Upper
 43 100
 72 23.9 19.6 29.4

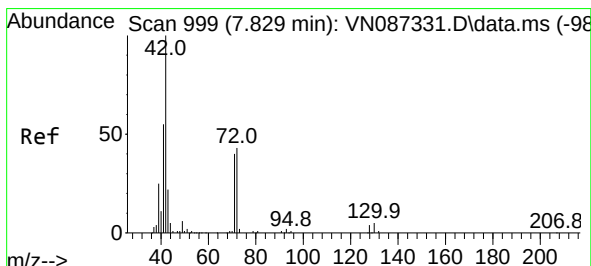
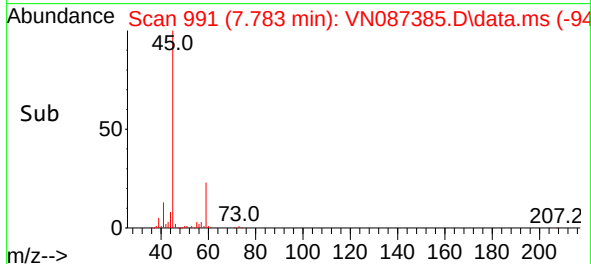
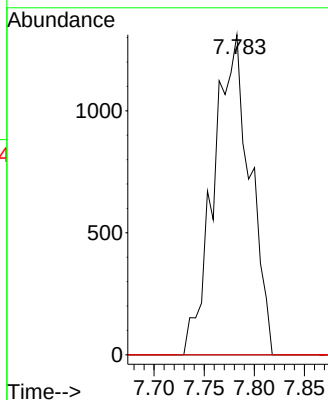
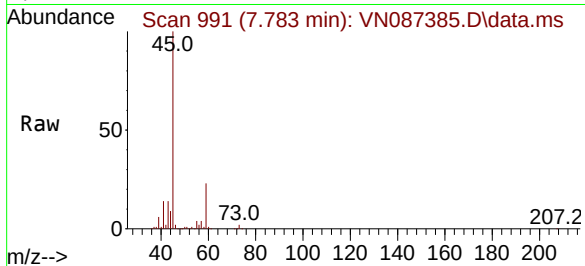




#28
Bromochloromethane
Concen: 2.090 ug/l
RT: 7.783 min Scan# 991
Delta R.T. -0.018 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

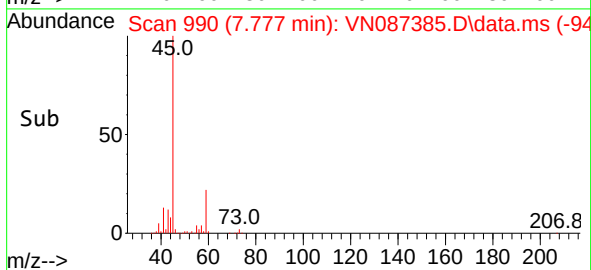
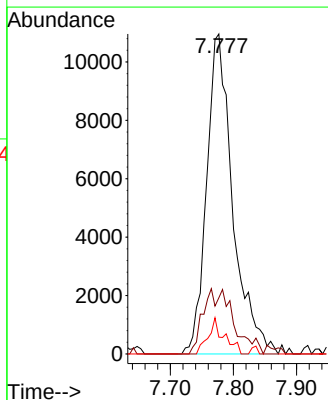
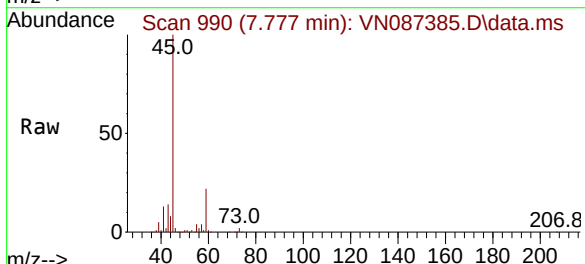
Instrument :
MSVOA_N
ClientSampleId :
FRAC TANK

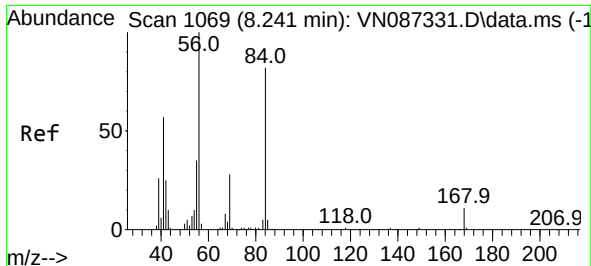
Tgt Ion: 49 Resp: 3303
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 57.3 85.9#



#29
Tetrahydrofuran
Concen: 29.919 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.053 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

Tgt Ion: 42 Resp: 31545
Ion Ratio Lower Upper
42 100
72 10.2 33.4 50.0#
71 6.8 31.2 46.8#

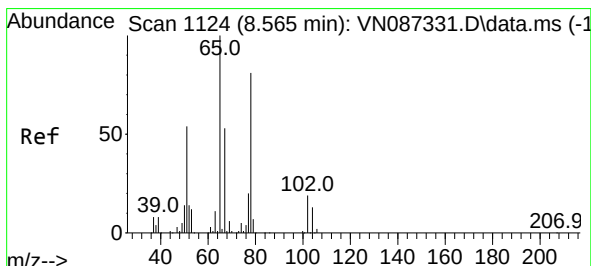
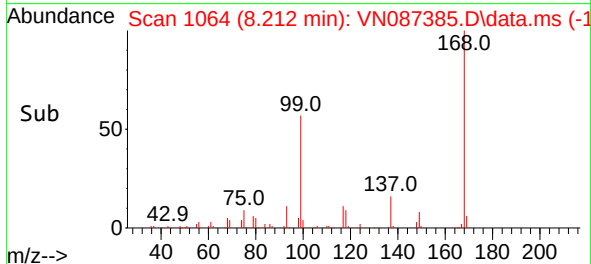
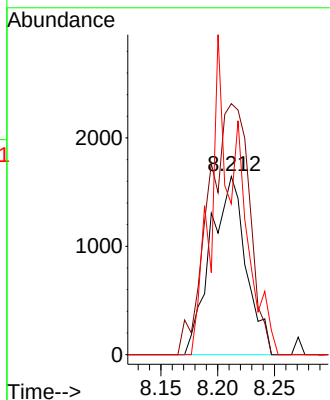
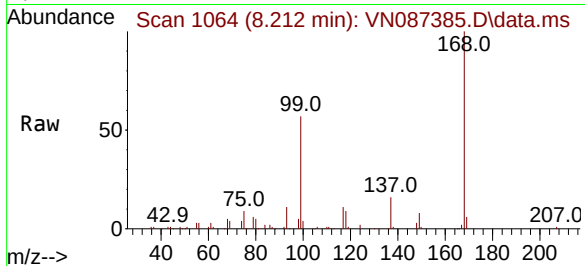




#31
Cyclohexane
Concen: 1.298 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.029 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

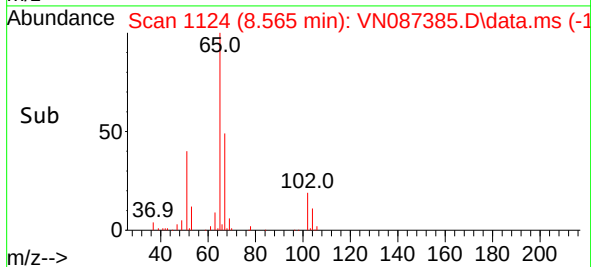
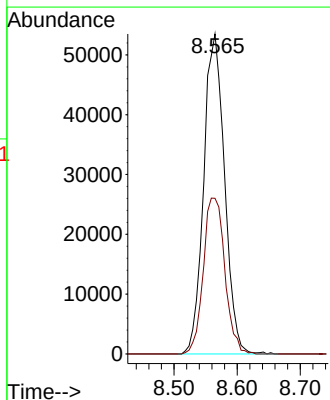
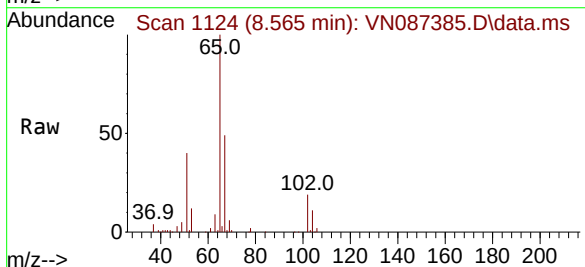
Instrument :
MSVOA_N
ClientSampleId :
FRAC TANK

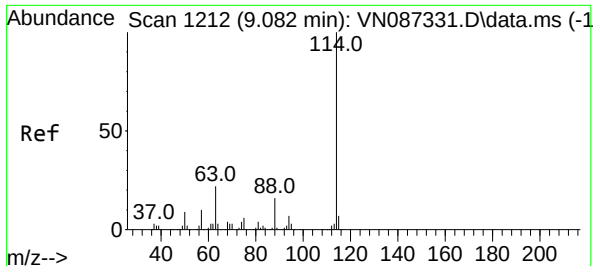
Tgt Ion: 56 Resp: 3575
Ion Ratio Lower Upper
56 100
69 140.8 22.7 34.1#
84 84.6 65.8 98.6



#33
1,2-Dichloroethane-d4
Concen: 54.829 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

Tgt Ion: 65 Resp: 122836
Ion Ratio Lower Upper
65 100
67 50.3 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087385.D

Acq: 21 Jul 2025 17:07

Instrument :

MSVOA_N

ClientSampleId :

FRAC TANK

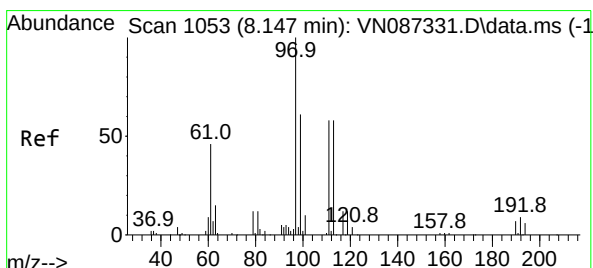
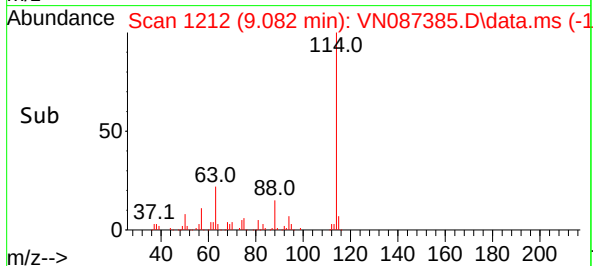
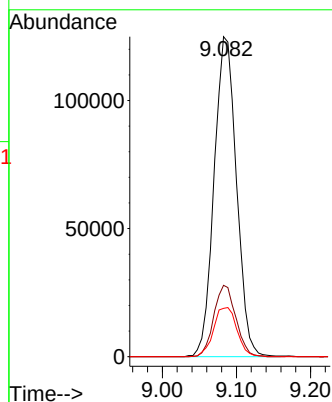
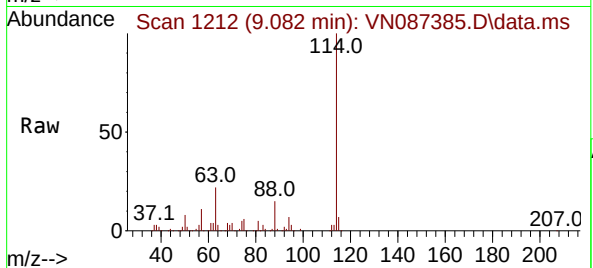
Tgt Ion:114 Resp: 262033

Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.6

88 15.1 0.0 32.8



#35

Dibromofluoromethane

Concen: 53.485 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087385.D

Acq: 21 Jul 2025 17:07

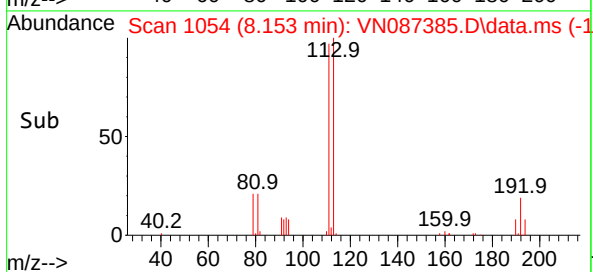
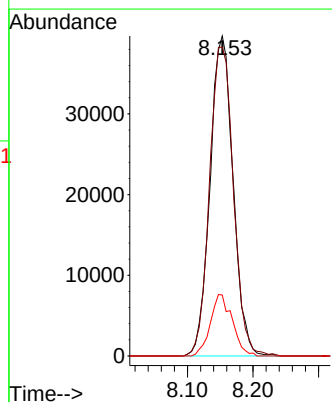
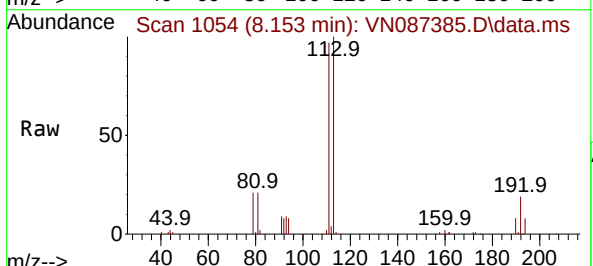
Tgt Ion:113 Resp: 96675

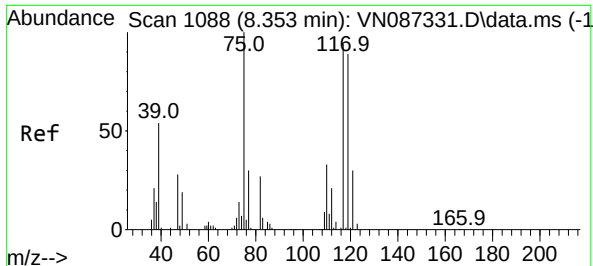
Ion Ratio Lower Upper

113 100

111 100.2 82.5 123.7

192 18.3 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.948 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

Lab File: VN087385.D

Acq: 21 Jul 2025 17:07

Instrument :

MSVOA_N

ClientSampleId :

FRAC TANK

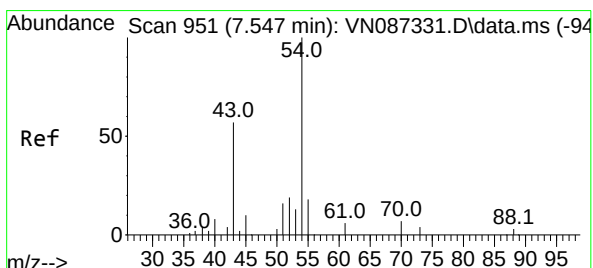
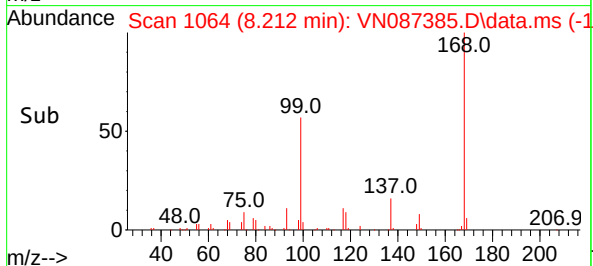
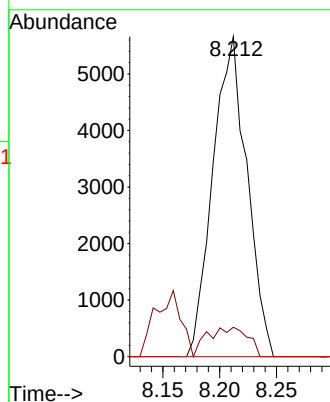
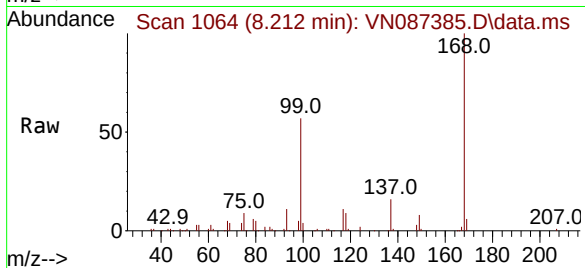
Tgt Ion: 75 Resp: 11817

Ion Ratio Lower Upper

75 100

110 10.8 16.7 50.1#

77 0.0 25.2 37.8#



#37

Ethyl Acetate

Concen: 10.035 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN087385.D

Acq: 21 Jul 2025 17:07

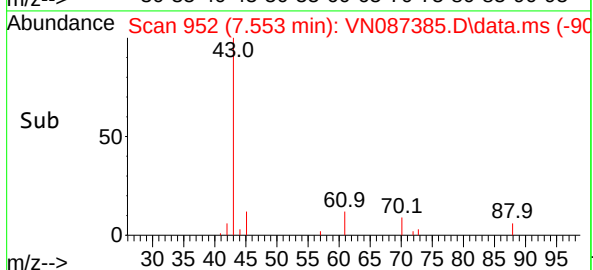
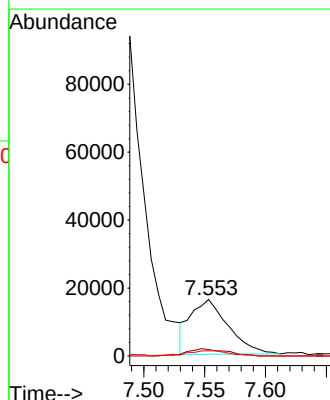
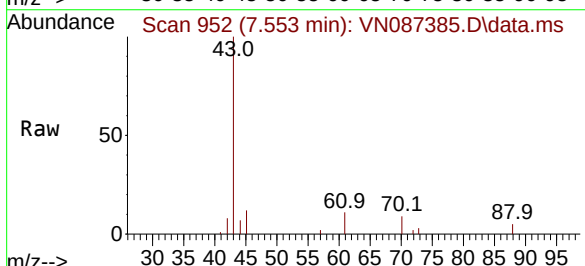
Tgt Ion: 43 Resp: 34609

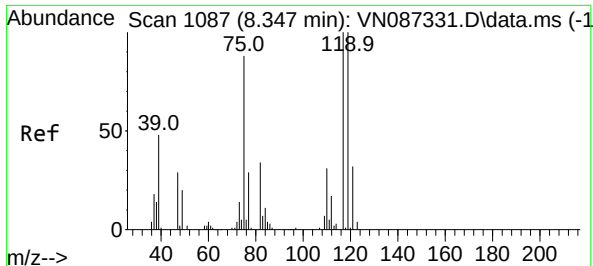
Ion Ratio Lower Upper

43 100

61 13.8 10.9 16.3

70 11.0 7.4 11.0

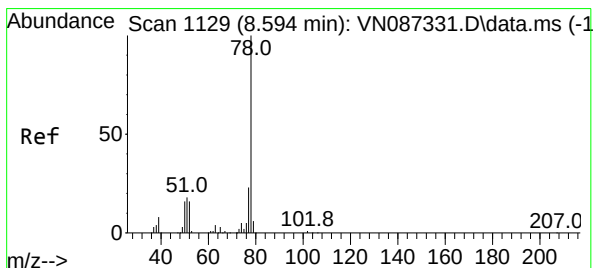
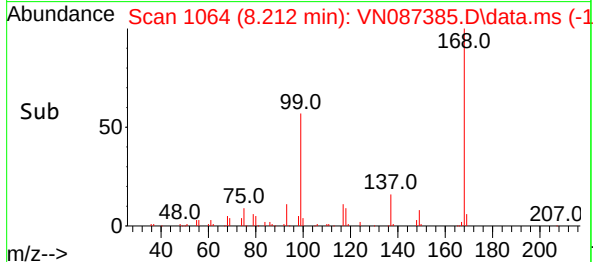
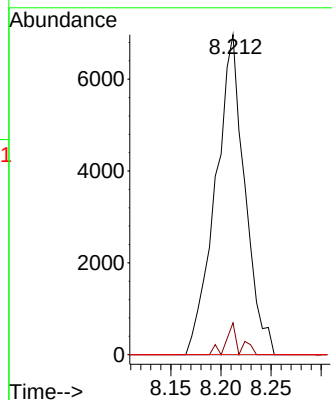
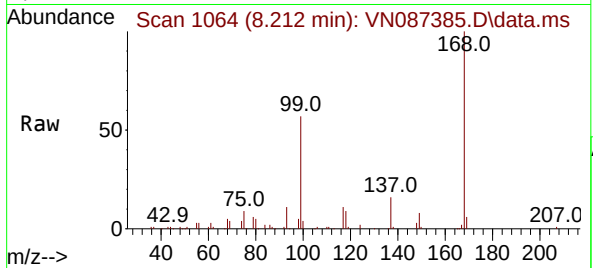




#38
Carbon Tetrachloride
Concen: 5.376 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.135 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

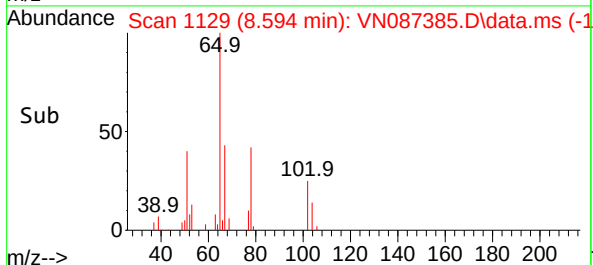
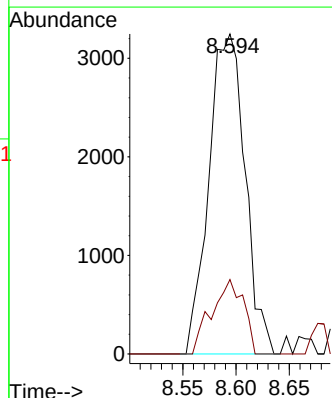
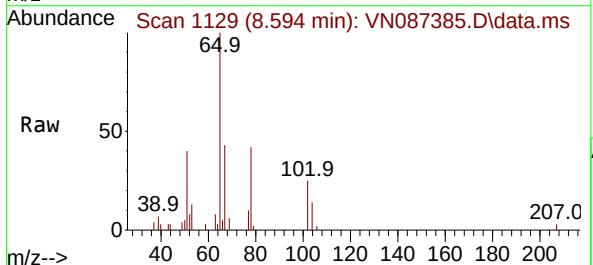
Instrument :
MSVOA_N
ClientSampleId :
FRAC TANK

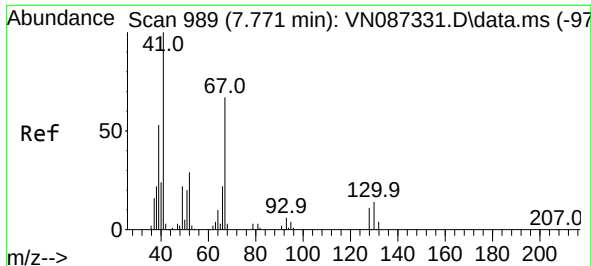
Tgt Ion:117 Resp: 14143
Ion Ratio Lower Upper
117 100
119 9.9 80.2 120.2#
121 0.0 25.4 38.2#



#40
Benzene
Concen: 0.995 ug/l
RT: 8.594 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

Tgt Ion: 78 Resp: 7678
Ion Ratio Lower Upper
78 100
77 23.3 18.2 27.2

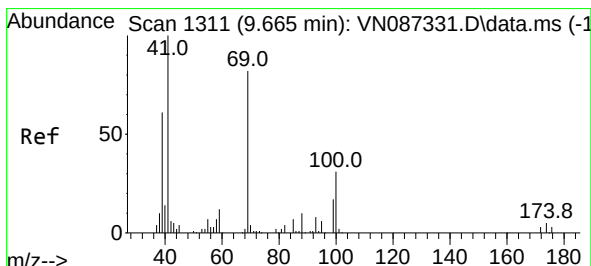
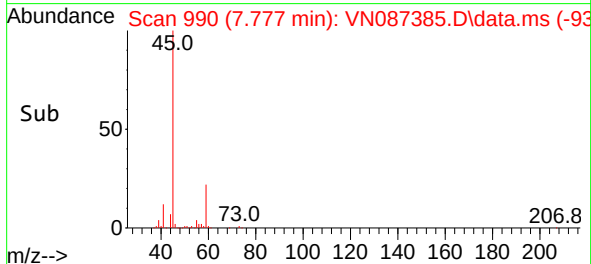
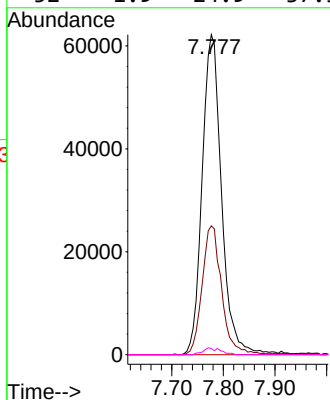
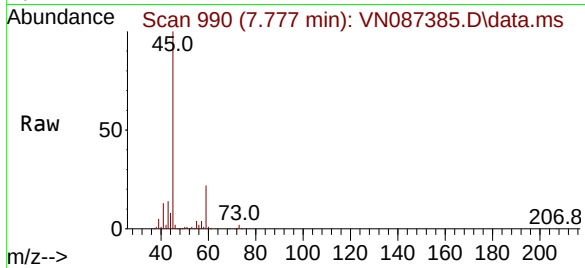




#41
Methacrylonitrile
Concen: 89.913 ug/l
RT: 7.777 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

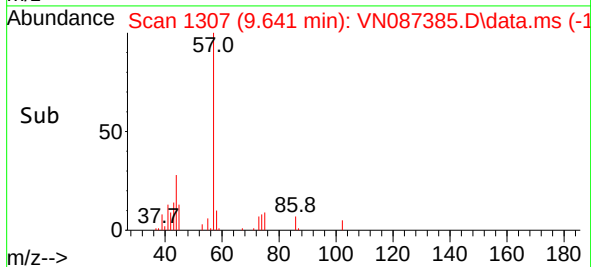
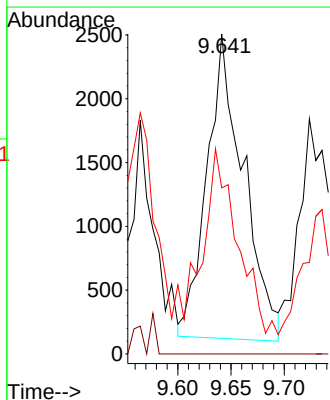
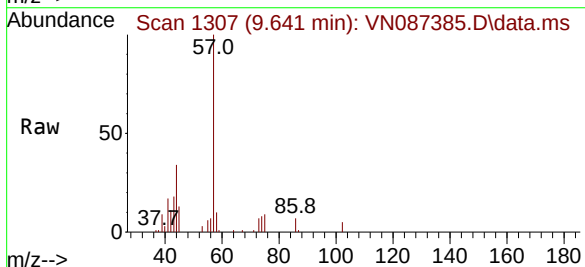
Instrument :
MSVOA_N
ClientSampleId :
FRAC TANK

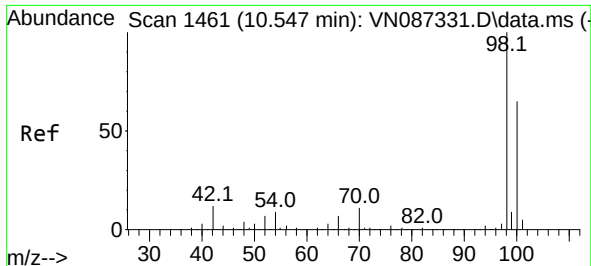
Tgt Ion: 41 Resp: 162146
Ion Ratio Lower Upper
41 100
39 40.3 43.4 65.0#
67 0.0 55.1 82.7#
52 1.9 24.9 37.3#



#48
Methyl methacrylate
Concen: 2.356 ug/l
RT: 9.641 min Scan# 1307
Delta R.T. -0.023 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

Tgt Ion: 41 Resp: 5679
Ion Ratio Lower Upper
41 100
69 0.0 64.1 96.1#
39 59.4 45.5 68.3

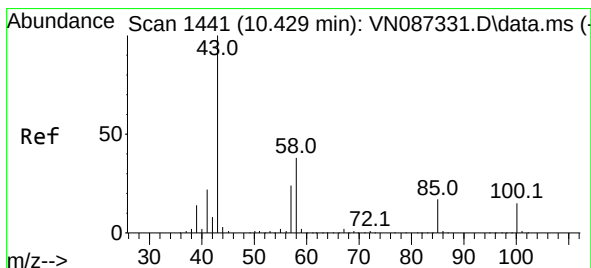
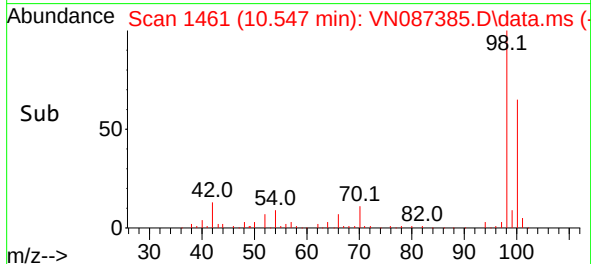
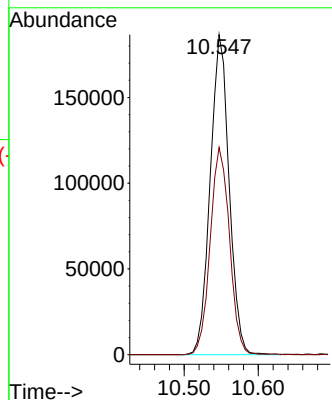
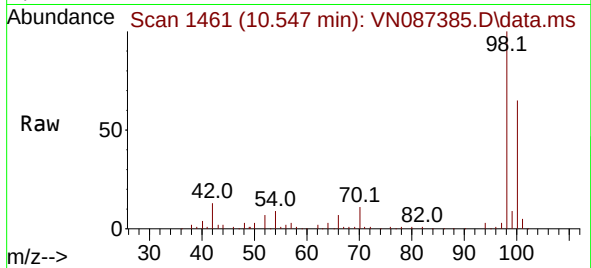




#50
Toluene-d8
Concen: 51.282 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

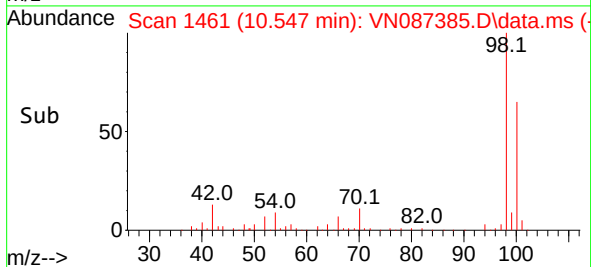
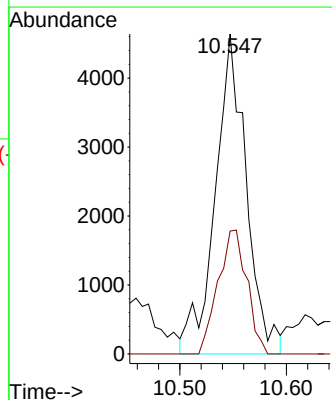
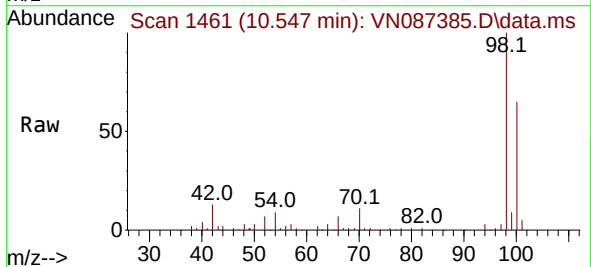
Instrument :
MSVOA_N
ClientSampleId :
FRAC TANK

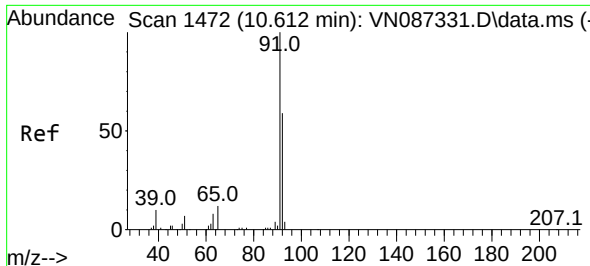
Tgt Ion: 98 Resp: 330647
Ion Ratio Lower Upper
98 100
100 66.0 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 2.773 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.118 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

Tgt Ion: 43 Resp: 9390
Ion Ratio Lower Upper
43 100
58 35.9 30.8 46.2

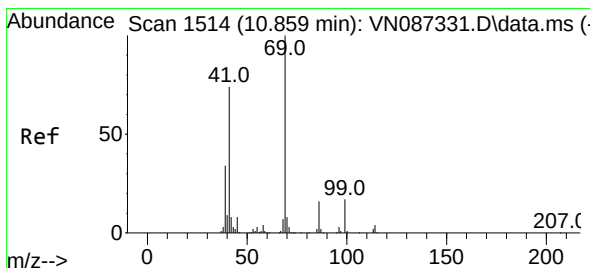
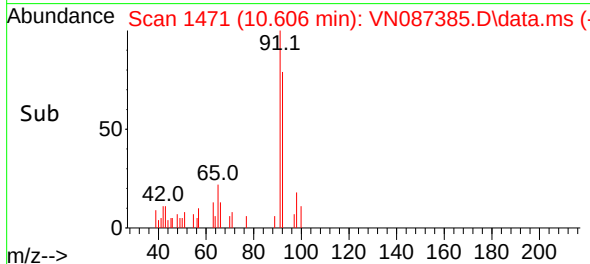
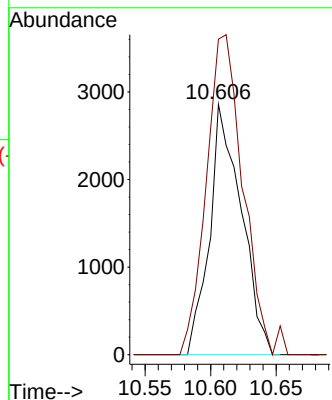
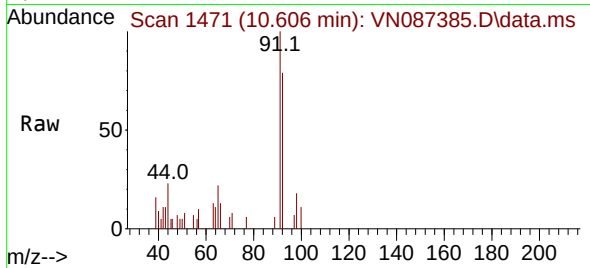




#52
Toluene
Concen: 1.024 ug/l
RT: 10.606 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

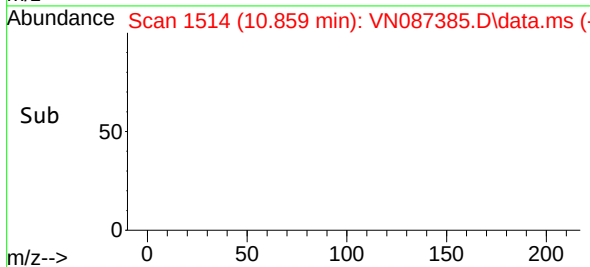
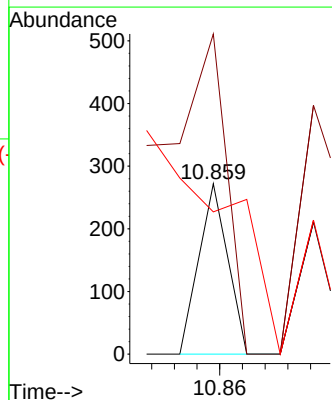
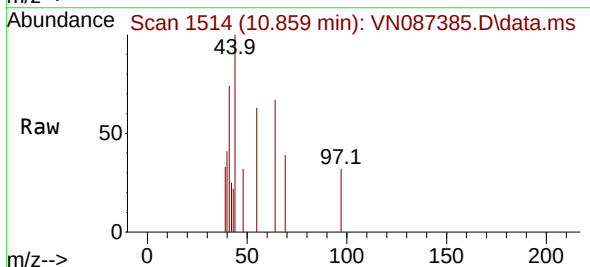
Instrument :
MSVOA_N
ClientSampleId :
FRAC TANK

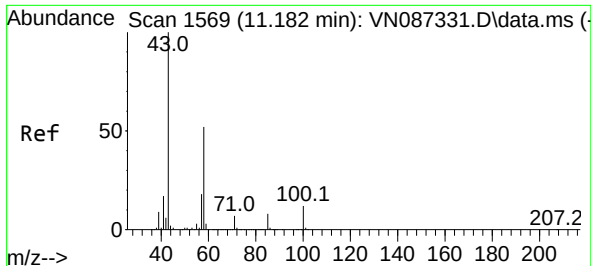
Tgt Ion: 92 Resp: 4803
Ion Ratio Lower Upper
92 100
91 148.6 135.1 202.7



#56
Ethyl methacrylate
Concen: 0.666 ug/l
RT: 10.859 min Scan# 1514
Delta R.T. -0.000 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

Tgt Ion: 69 Resp: 96
Ion Ratio Lower Upper
69 100
41 0.0 55.1 82.7#
39 0.0 27.9 41.9#

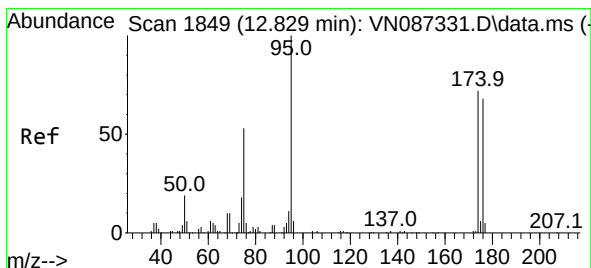
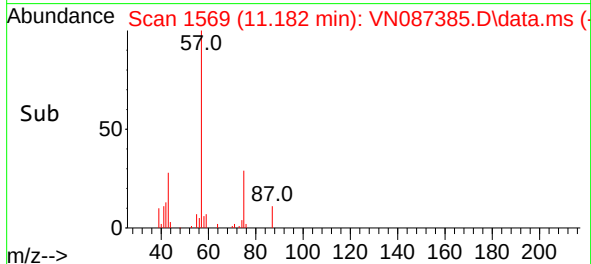
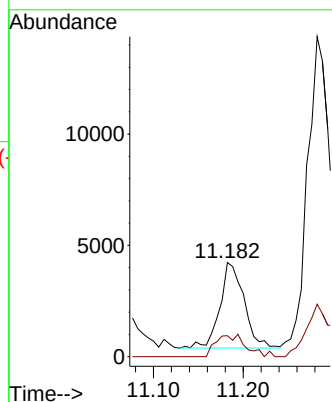
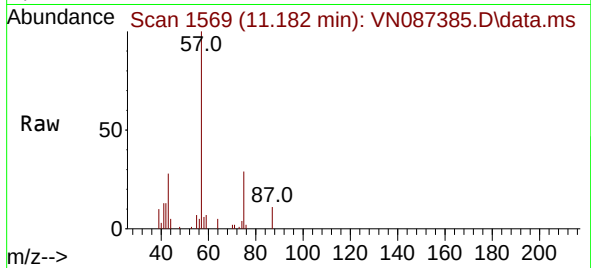




#59
2-Hexanone
Concen: 3.192 ug/l
RT: 11.182 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

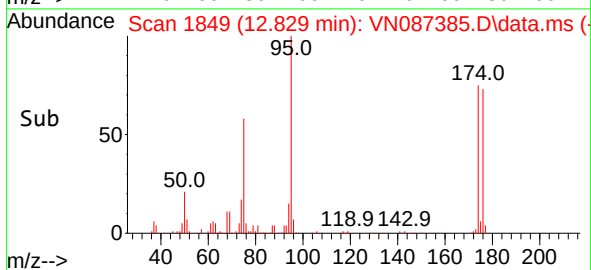
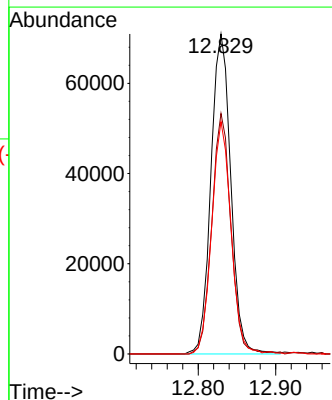
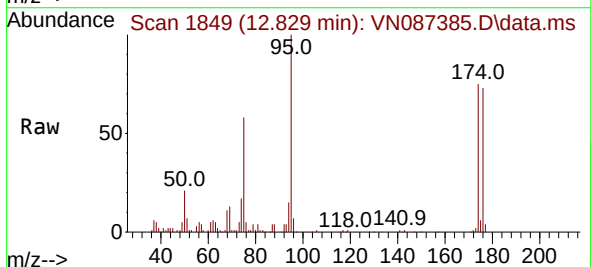
Instrument :
MSVOA_N
ClientSampleId :
FRAC TANK

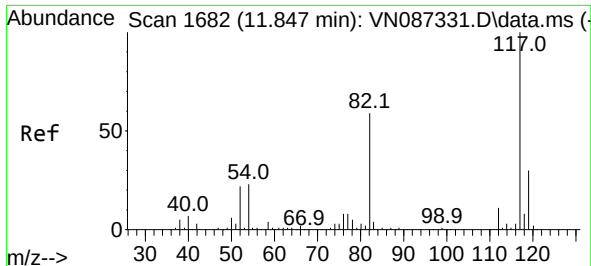
Tgt Ion: 43 Resp: 7172
Ion Ratio Lower Upper
43 100
58 31.9 26.7 80.0



#62
4-Bromofluorobenzene
Concen: 53.108 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

Tgt Ion: 95 Resp: 126507
Ion Ratio Lower Upper
95 100
174 72.2 0.0 149.4
176 70.8 0.0 141.2

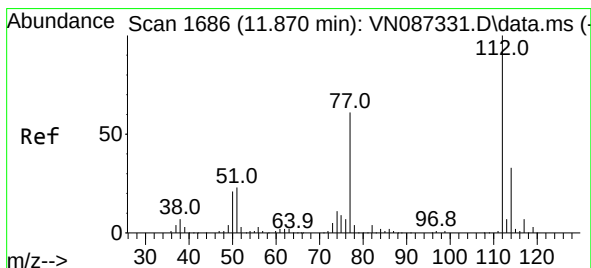
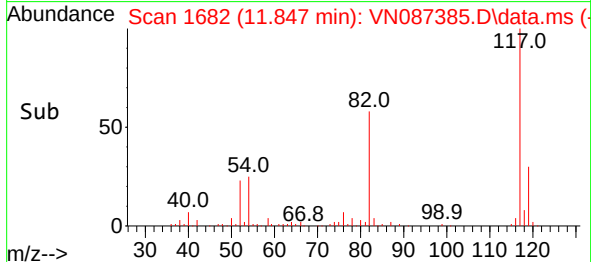
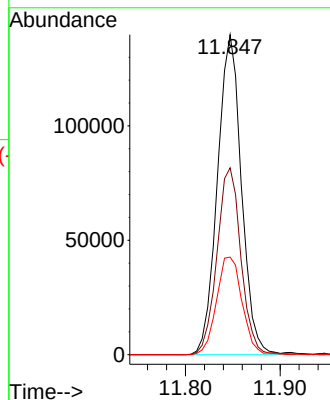
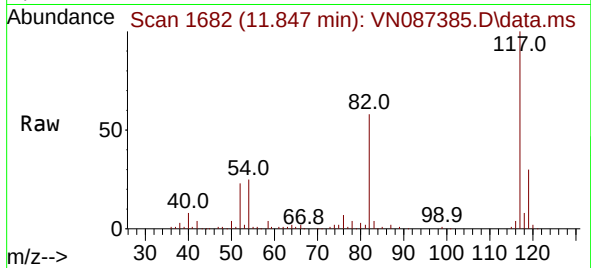




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

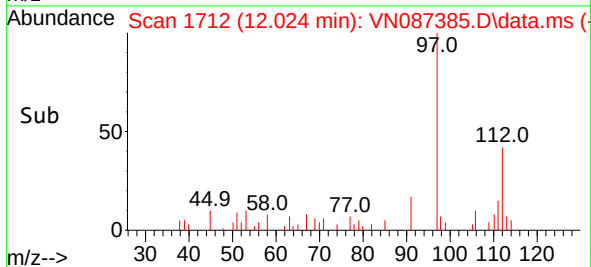
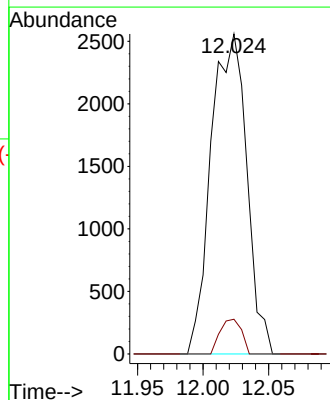
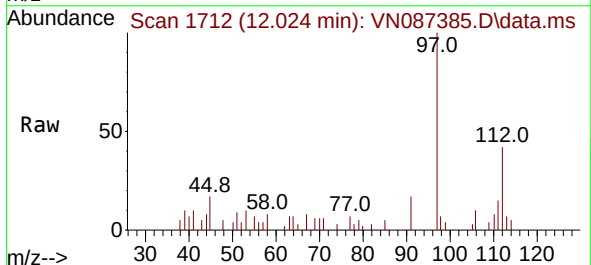
Instrument :
MSVOA_N
ClientSampleId :
FRAC TANK

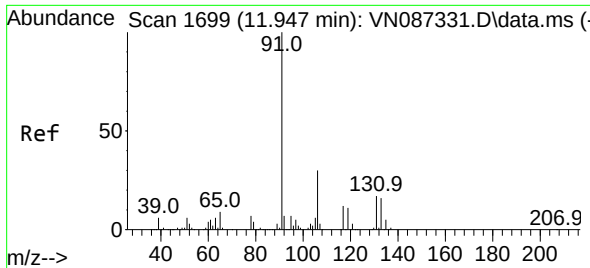
Tgt Ion:117 Resp: 246052
Ion Ratio Lower Upper
117 100
82 58.4 47.4 71.2
119 30.5 23.8 35.8



#65
Chlorobenzene
Concen: 0.876 ug/l
RT: 12.024 min Scan# 1712
Delta R.T. 0.153 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

Tgt Ion:112 Resp: 4839
Ion Ratio Lower Upper
112 100
114 10.9 26.5 39.7#

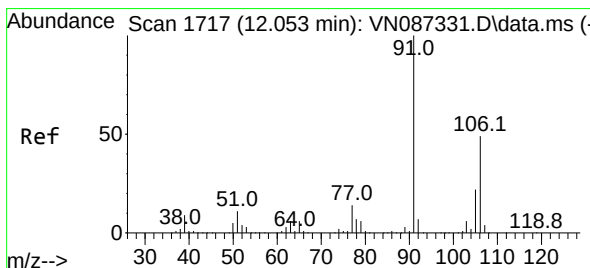
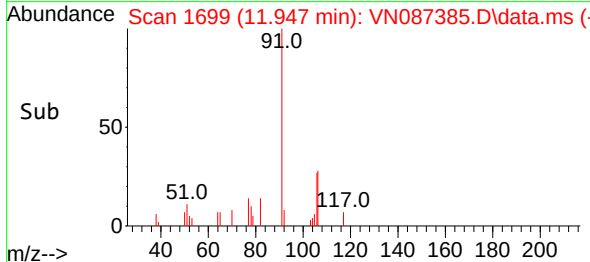
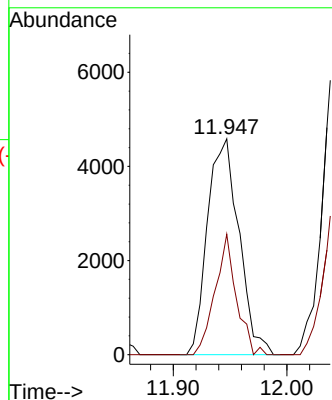
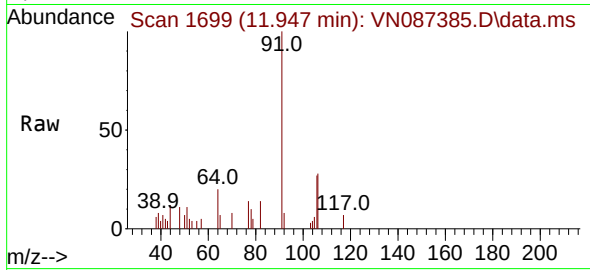




#67
Ethyl Benzene
Concen: 0.970 ug/l
RT: 11.947 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

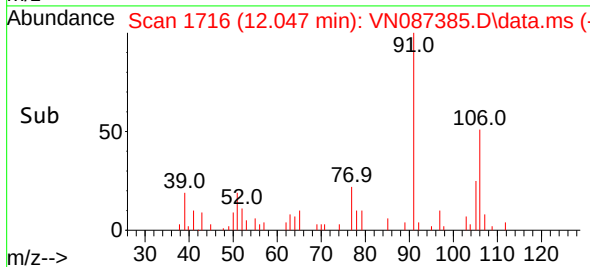
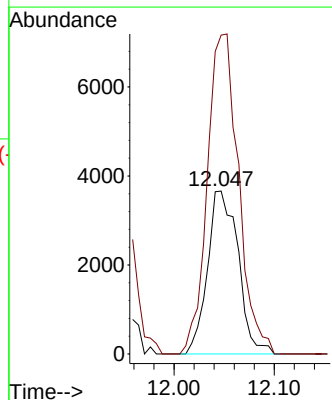
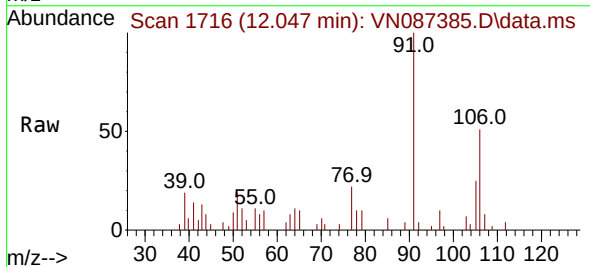
Instrument :
MSVOA_N
ClientSampleId :
FRAC TANK

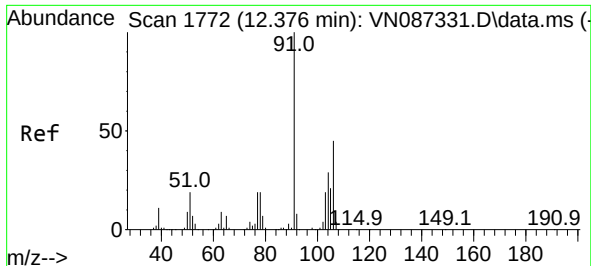
Tgt Ion: 91 Resp: 8824
Ion Ratio Lower Upper
91 100
106 55.8 24.3 36.5#



#68
m/p-Xylenes
Concen: 2.276 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.006 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

Tgt Ion:106 Resp: 7752
Ion Ratio Lower Upper
106 100
91 200.9 162.0 243.0

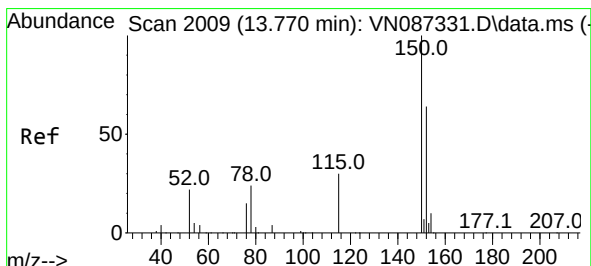
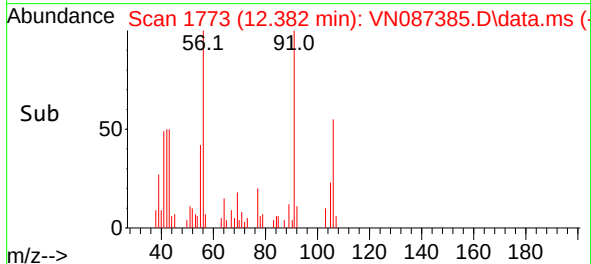
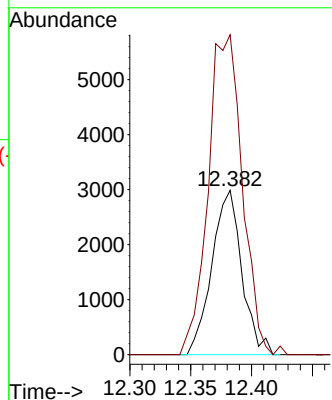
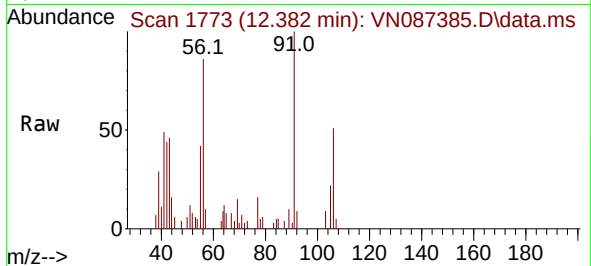




#69
o-Xylene
Concen: 1.572 ug/l
RT: 12.382 min Scan# 1773
Delta R.T. 0.006 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

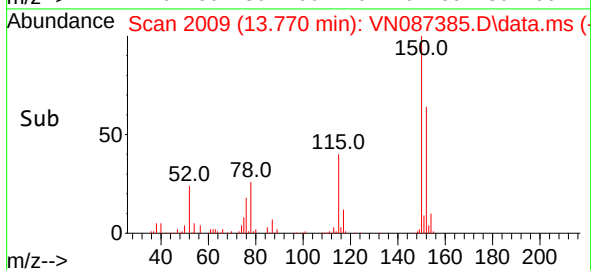
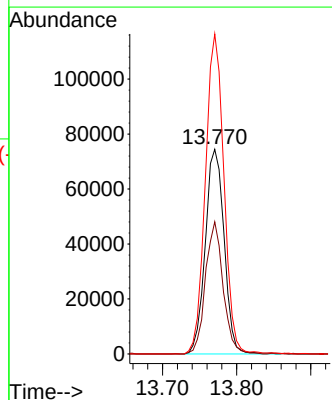
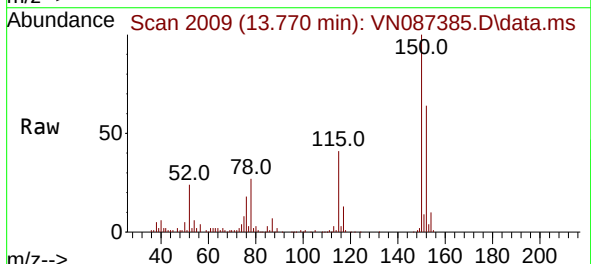
Instrument :
MSVOA_N
ClientSampleId :
FRAC TANK

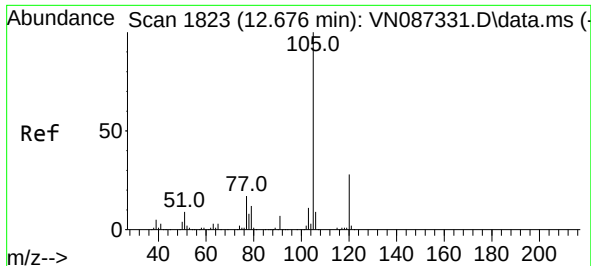
Tgt Ion:106 Resp: 5115
Ion Ratio Lower Upper
106 100
91 222.6 107.7 323.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

Tgt Ion:152 Resp: 131454
Ion Ratio Lower Upper
152 100
115 60.6 31.1 93.5
150 154.0 0.0 349.0

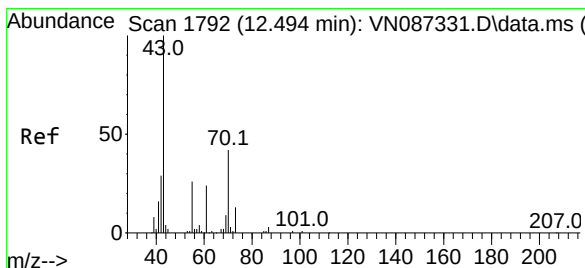
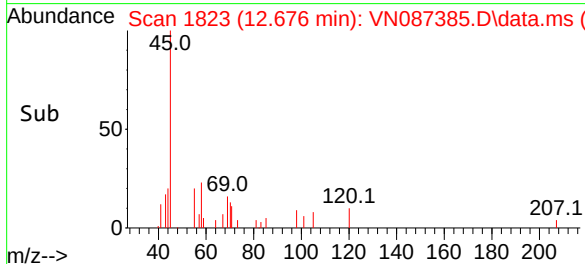
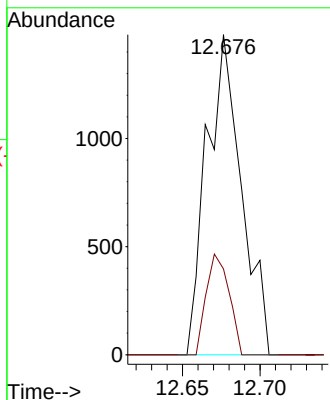
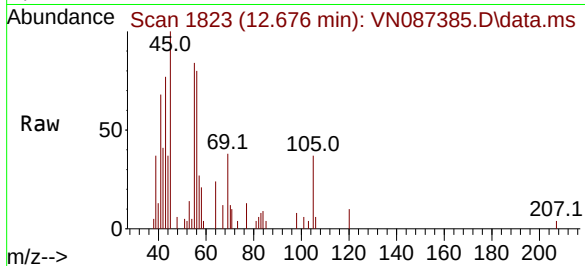




#73
Isopropylbenzene
Concen: 0.279 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.000 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

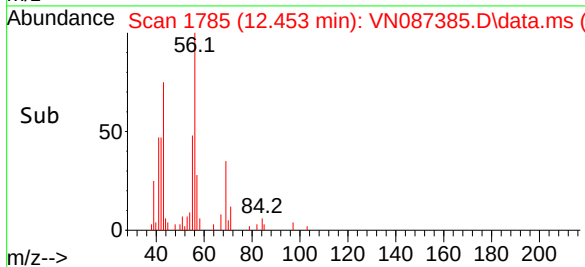
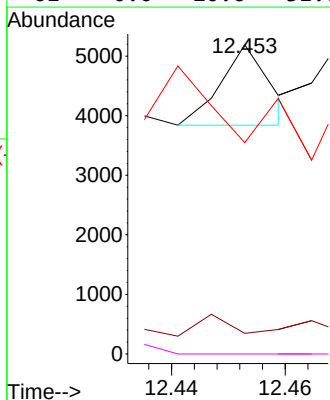
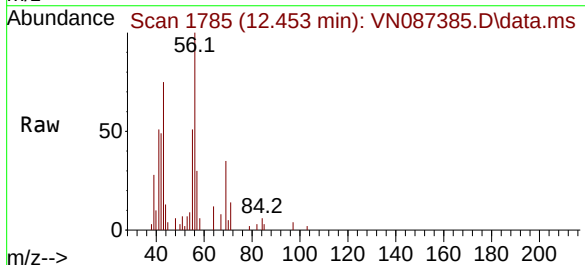
Instrument :
MSVOA_N
ClientSampleId :
FRAC TANK

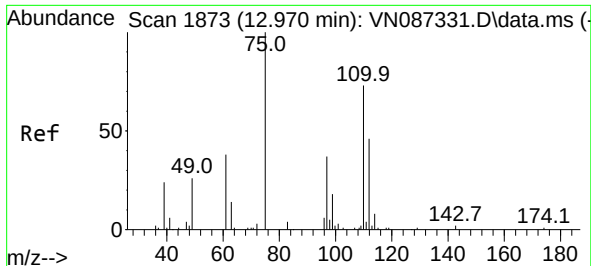
Tgt Ion:105 Resp: 2310
Ion Ratio Lower Upper
105 100
120 20.6 13.4 40.1



#74
N-ethyl acetate
Concen: 0.236 ug/l
RT: 12.453 min Scan# 1785
Delta R.T. -0.041 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

Tgt Ion: 43 Resp: 812
Ion Ratio Lower Upper
43 100
70 24.8 37.6 56.4#
55 0.0 19.6 29.4#
61 0.0 20.6 31.0#

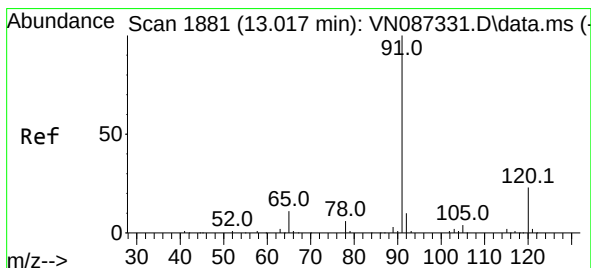
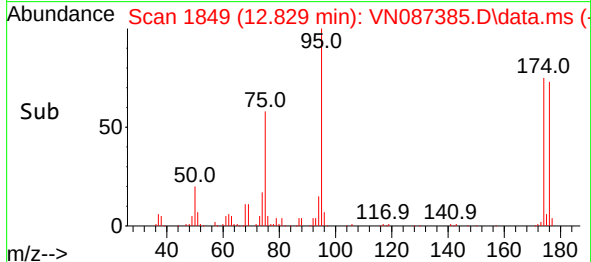
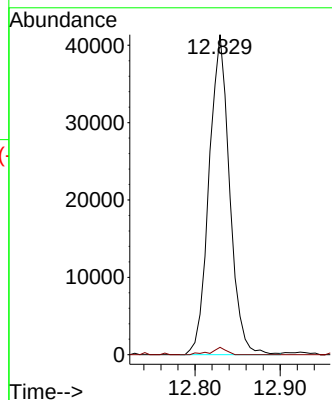
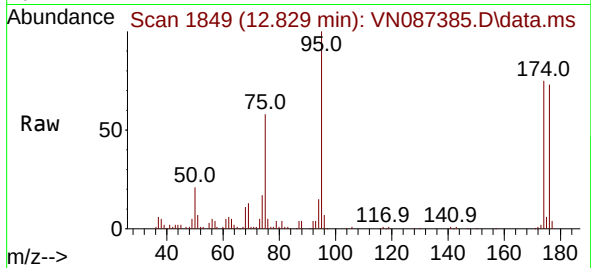




#76
1,2,3-Trichloropropane
Concen: 23.510 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

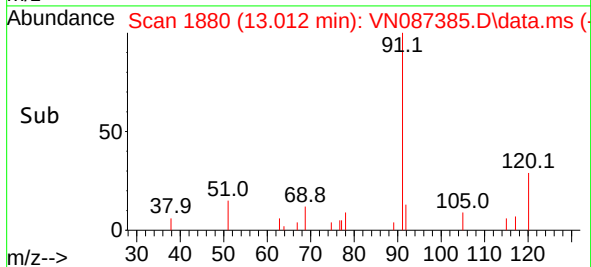
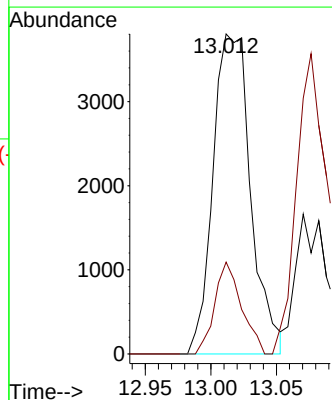
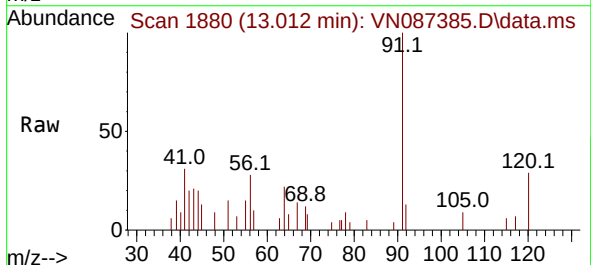
Instrument :
MSVOA_N
ClientSampleId :
FRAC TANK

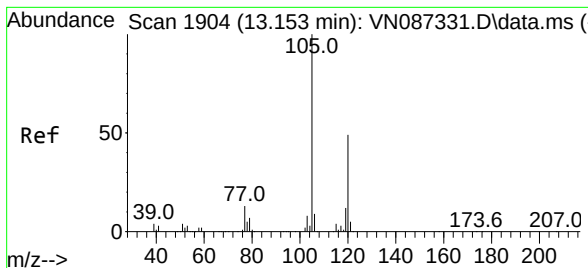
Tgt Ion: 75 Resp: 69302
Ion Ratio Lower Upper
75 100
77 1.7 94.5 283.6#



#78
n-propylbenzene
Concen: 0.730 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.006 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

Tgt Ion: 91 Resp: 7598
Ion Ratio Lower Upper
91 100
120 20.5 11.3 33.8





#80

1,3,5-Trimethylbenzene

Concen: 1.256 ug/l

RT: 13.153 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VN087385.D

Acq: 21 Jul 2025 17:07

Instrument :

MSVOA_N

ClientSampleId :

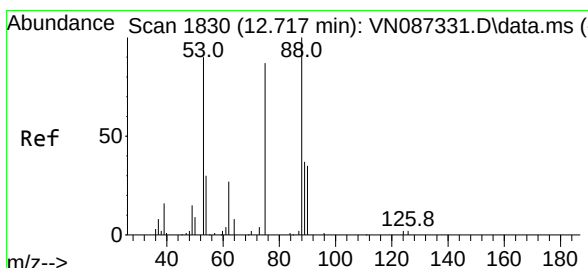
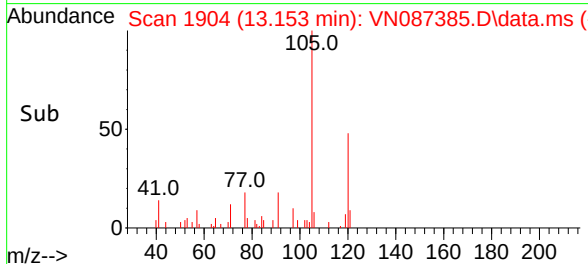
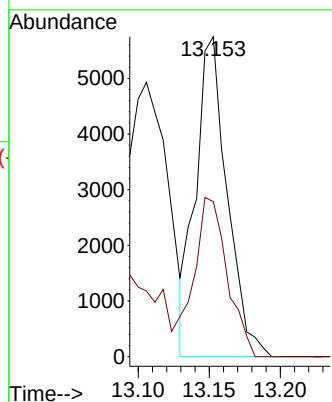
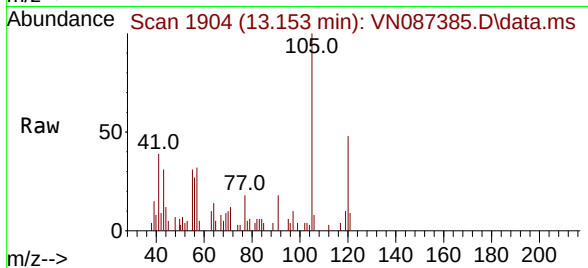
FRAC TANK

Tgt Ion:105 Resp: 8852

Ion Ratio Lower Upper

105 100

120 53.3 24.3 72.8



#81

trans-1,4-Dichloro-2-butene

Concen: 64.327 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.112 min

Lab File: VN087385.D

Acq: 21 Jul 2025 17:07

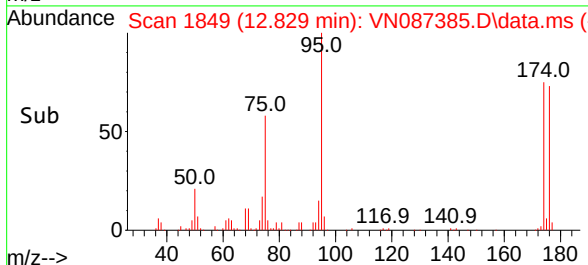
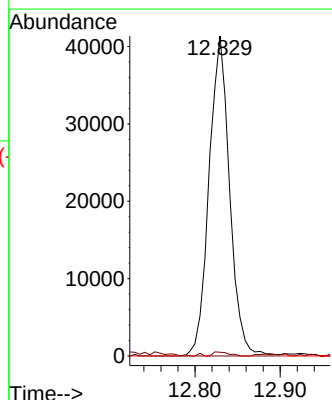
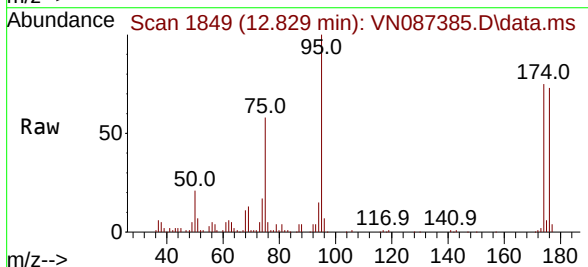
Tgt Ion: 75 Resp: 69302

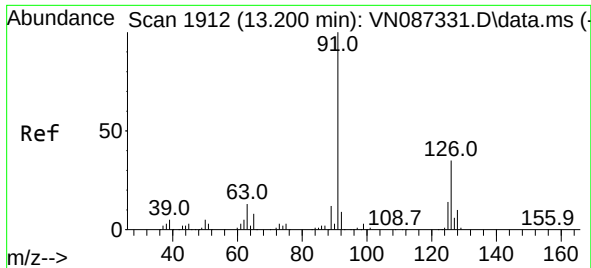
Ion Ratio Lower Upper

75 100

53 0.9 83.5 125.3#

89 0.0 38.4 57.6#

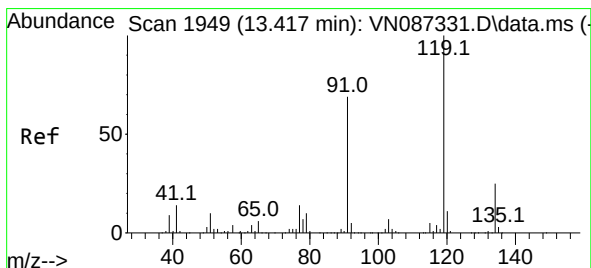
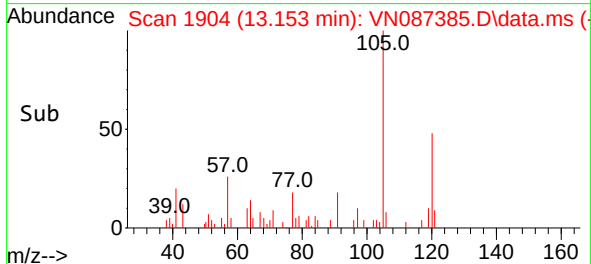
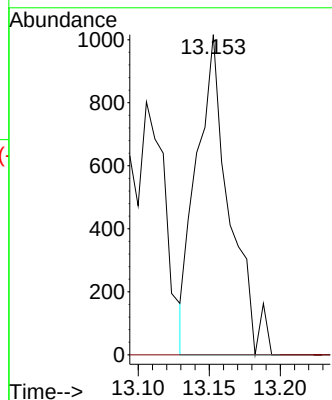
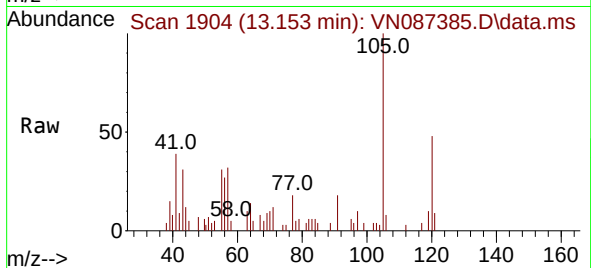




#82
4-Chlorotoluene
Concen: 0.246 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.047 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

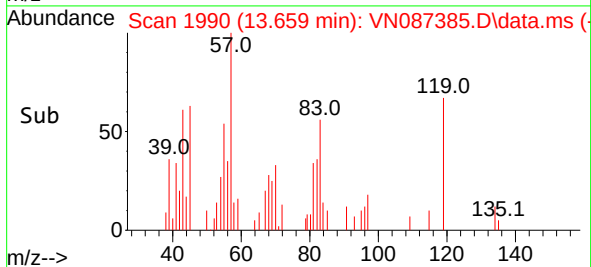
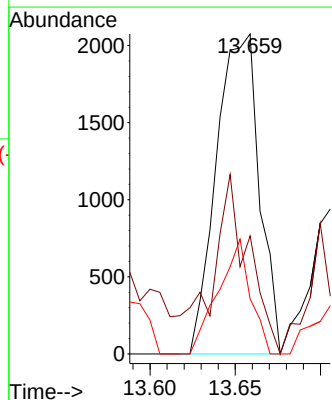
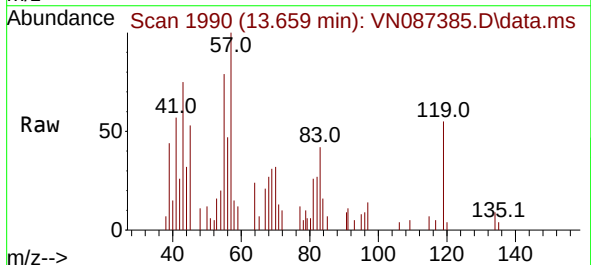
Instrument :
MSVOA_N
ClientSampleId :
FRAC TANK

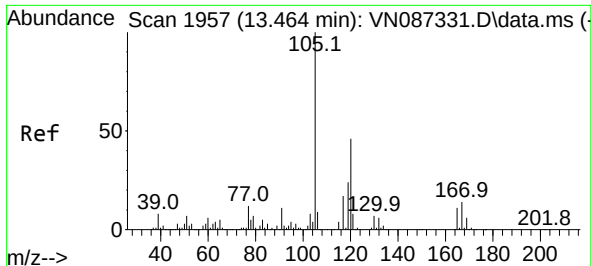
Tgt Ion: 91 Resp: 1639
Ion Ratio Lower Upper
91 100
126 0.0 16.6 49.7#



#83
tert-Butylbenzene
Concen: 0.617 ug/l
RT: 13.659 min Scan# 1990
Delta R.T. 0.241 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

Tgt Ion: 119 Resp: 3632
Ion Ratio Lower Upper
119 100
91 46.8 35.0 105.1
134 27.0 12.6 37.6

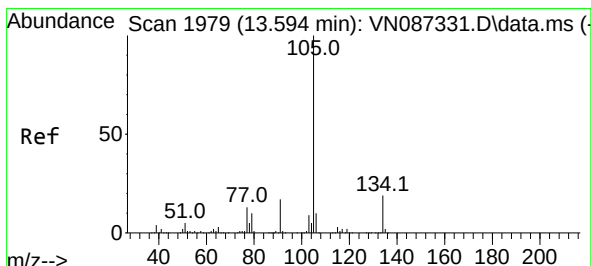
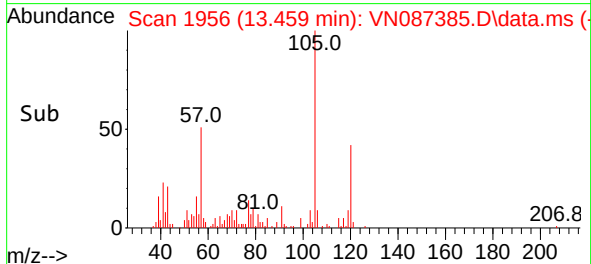
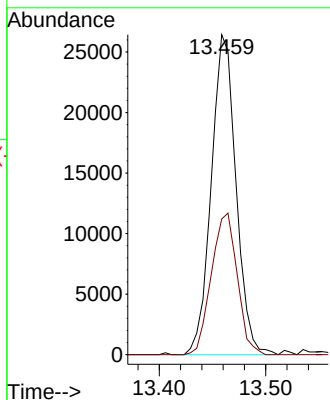
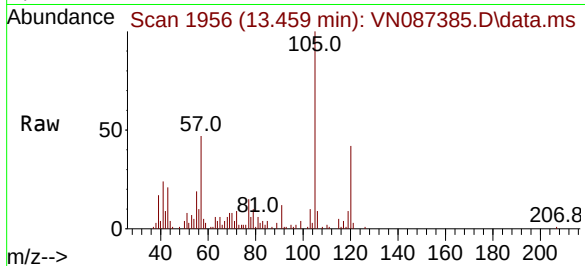




#84
1,2,4-Trimethylbenzene
Concen: 5.923 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.006 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

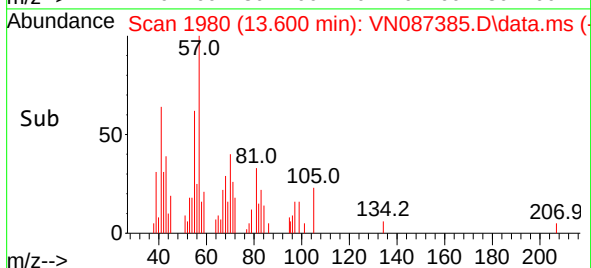
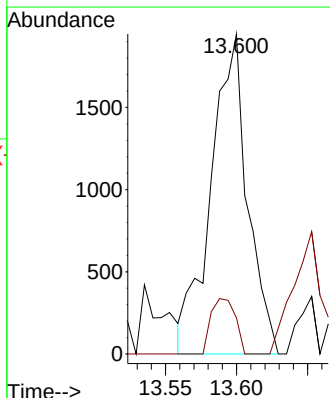
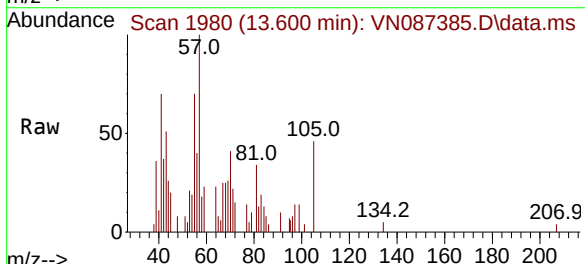
Instrument :
MSVOA_N
ClientSampleId :
FRAC TANK

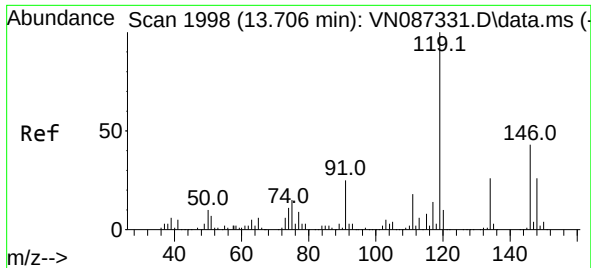
Tgt Ion:105 Resp: 42638
Ion Ratio Lower Upper
105 100
120 46.2 22.8 68.3



#85
sec-Butylbenzene
Concen: 0.393 ug/l
RT: 13.600 min Scan# 1980
Delta R.T. 0.006 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

Tgt Ion:105 Resp: 3485
Ion Ratio Lower Upper
105 100
134 11.5 9.8 29.4

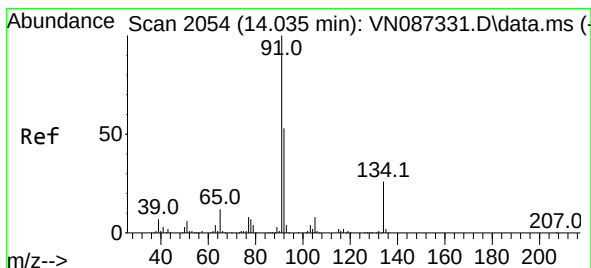
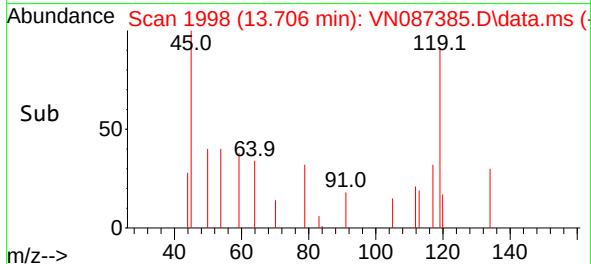
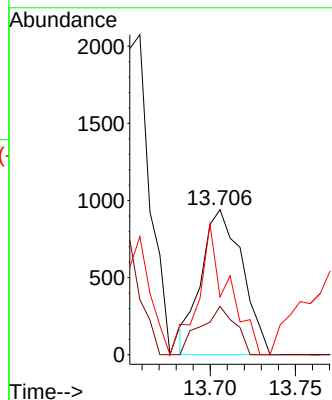
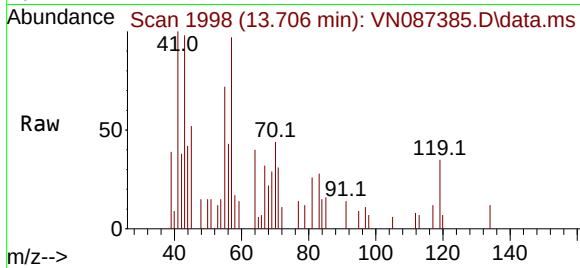




#86
p-Isopropyltoluene
Concen: 0.222 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

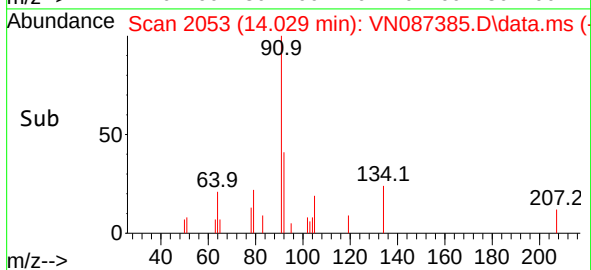
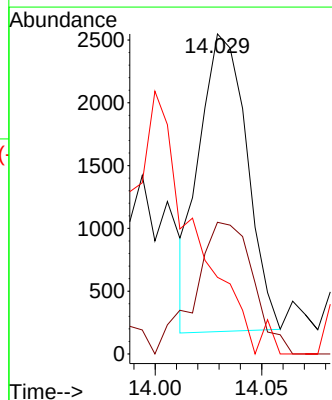
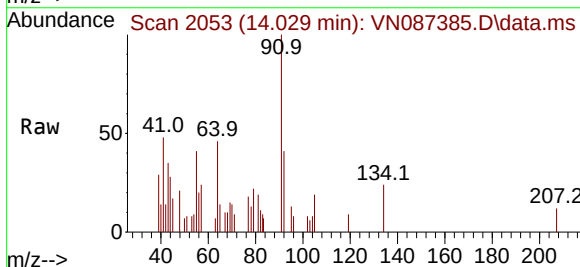
Instrument :
MSVOA_N
ClientSampleId :
FRAC TANK

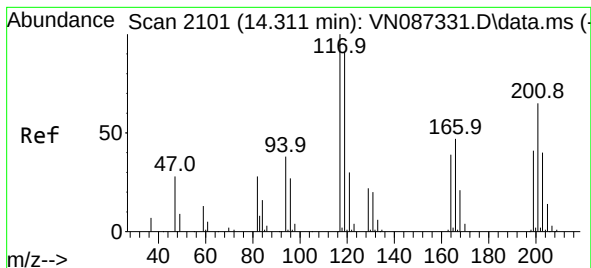
Tgt Ion:119 Resp: 1581
Ion Ratio Lower Upper
119 100
134 28.3 13.5 40.5
91 65.4 12.2 36.6#



#89
n-Butylbenzene
Concen: 0.540 ug/l
RT: 14.029 min Scan# 2053
Delta R.T. -0.006 min
Lab File: VN087385.D
Acq: 21 Jul 2025 17:07

Tgt Ion: 91 Resp: 3665
Ion Ratio Lower Upper
91 100
92 54.1 26.2 78.6
134 0.0 12.4 37.2#





#90

Hexachloroethane

Concen: 0.943 ug/l

RT: 14.312 min Scan# 2101

Delta R.T. 0.000 min

Lab File: VN087385.D

Acq: 21 Jul 2025 17:07

Instrument :

MSVOA_N

ClientSampleId :

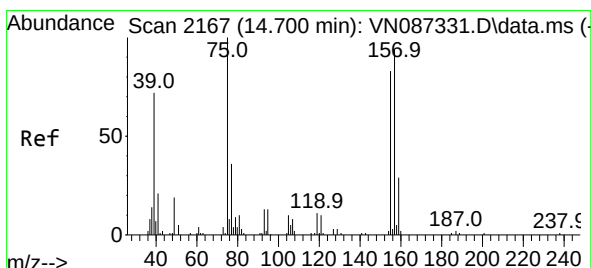
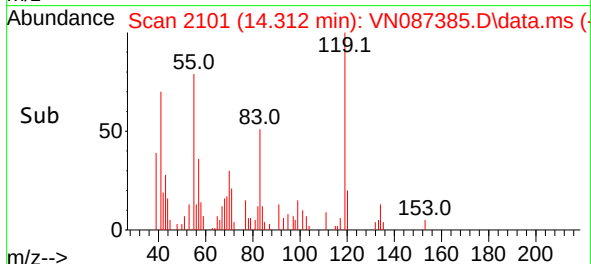
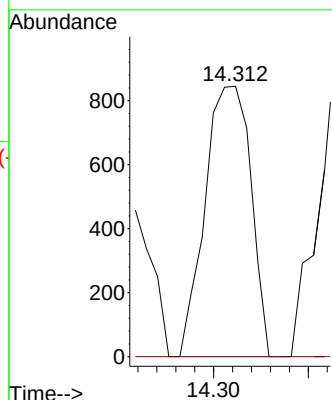
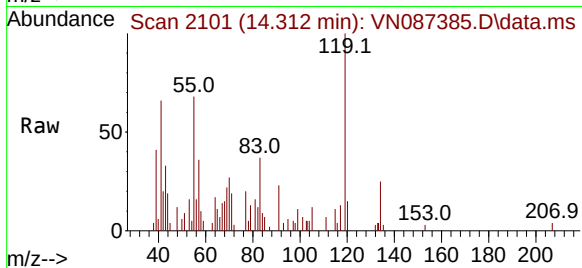
FRAC TANK

Tgt Ion:117 Resp: 1420

Ion Ratio Lower Upper

117 100

201 0.0 32.8 98.4#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.283 ug/l

RT: 14.659 min Scan# 2160

Delta R.T. -0.041 min

Lab File: VN087385.D

Acq: 21 Jul 2025 17:07

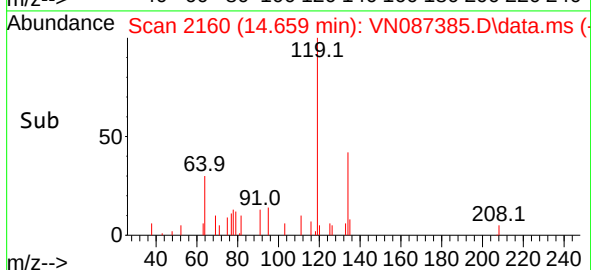
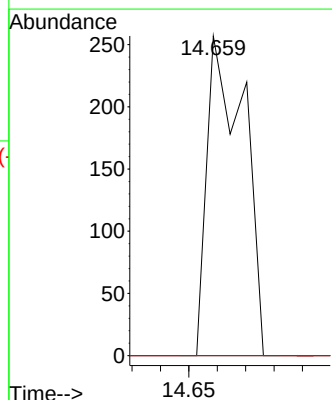
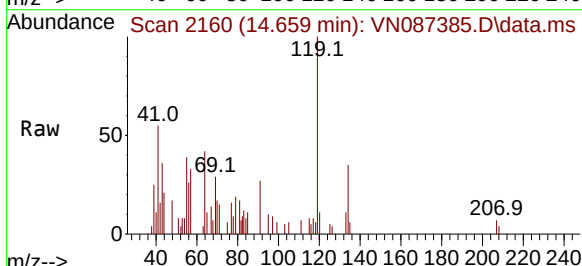
Tgt Ion: 75 Resp: 231

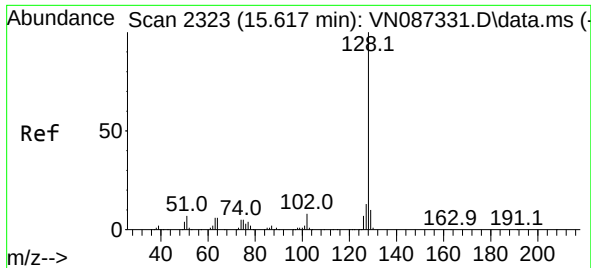
Ion Ratio Lower Upper

75 100

155 0.0 37.3 111.8#

157 0.0 46.2 138.6#





#95

Naphthalene

Concen: 1.454 ug/l

RT: 15.611 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN087385.D

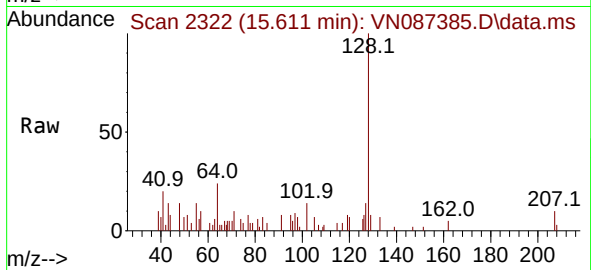
Acq: 21 Jul 2025 17:07

Instrument :

MSVOA_N

ClientSampleId :

FRAC TANK



Tgt Ion:	128	Resp:	12073
Ion	Ratio	Lower	Upper
128	100		
127	18.8	10.5	15.7#
129	11.3	8.4	12.6

