

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
 Data File : VN088183.D
 Acq On : 31 Oct 2025 13:19
 Operator : JC\MD
 Sample : Q3447-01
 Misc : 3.29g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-TW1-251023-01

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/03/2025
 Supervised By :Semsettin Yesilyurt 11/03/2025

Quant Time: Nov 01 00:31:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.200	168	228030	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	515714	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	480366	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	245335	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.559	65	231568	58.727	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 117.460%	
35) Dibromofluoromethane	8.147	113	174376	50.331	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.660%	
50) Toluene-d8	10.541	98	674351	50.514	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.020%	
62) 4-Bromofluorobenzene	12.829	95	243353	51.617	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 103.240%	

Target Compounds

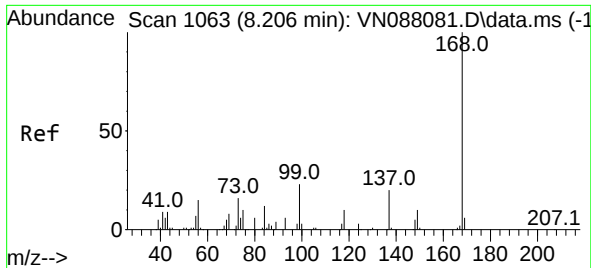
						Qvalue
16) Acetone	4.436	43	12805m	6.464	ug/l	
17) Carbon Disulfide	4.689	76	11117	1.276	ug/l #	94
18) Methyl Acetate	5.018	43	54636	13.472	ug/l	99
31) Cyclohexane	8.236	56	124320	22.524	ug/l #	91
39) Methylcyclohexane	9.577	83	299427	46.049	ug/l	98
40) Benzene	8.583	78	56347	3.657	ug/l	99
52) Toluene	10.606	92	277707	29.237	ug/l	97
67) Ethyl Benzene	11.941	91	344808	18.009	ug/l	99
68) m/p-Xylenes	12.047	106	512034	71.376	ug/l	99
69) o-Xylene	12.376	106	238036	35.003	ug/l	100
73) Isopropylbenzene	12.671	105	100155	5.293	ug/l	97
78) n-propylbenzene	13.012	91	231471	10.024	ug/l	100
80) 1,3,5-Trimethylbenzene	13.153	105	453919	28.885	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	1623716	103.270	ug/l	99
85) sec-Butylbenzene	13.594	105	78904	3.826	ug/l #	63
86) p-Isopropyltoluene	13.706	119	233418	14.108	ug/l	96
89) n-Butylbenzene	14.035	91	210593	12.850	ug/l #	70

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

Manual Integrations APPROVED

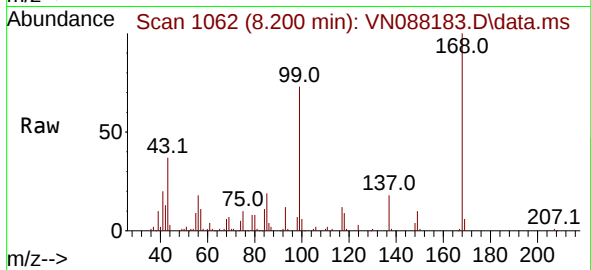
Quant Time: Nov 01 00:31:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.200 min Scan# 1063
Delta R.T. -0.006 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

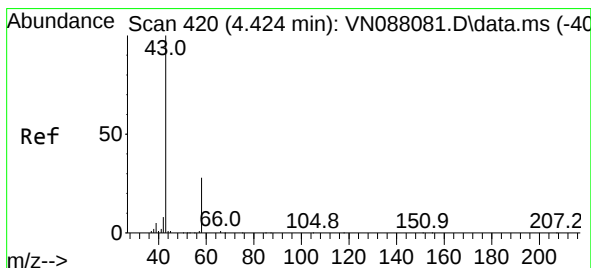
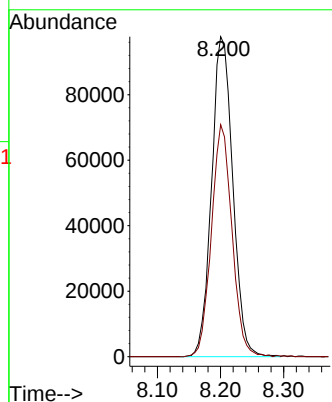
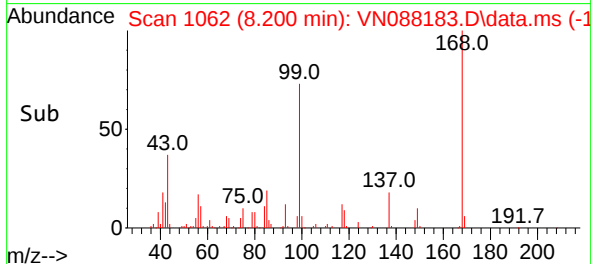
Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01



Tgt Ion:168 Resp: 228030
Ion Ratio Lower Upper
168 100
99 72.5 57.2 85.8

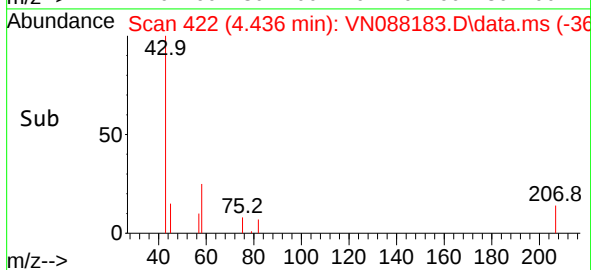
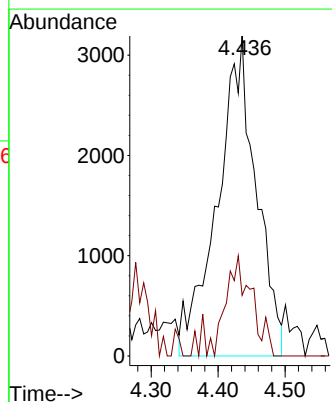
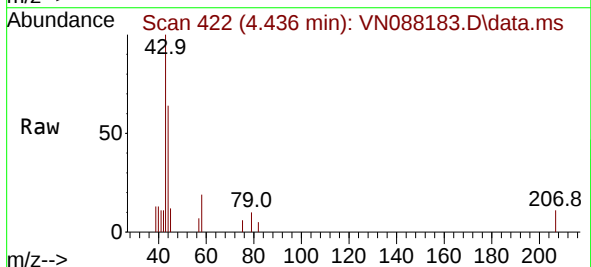
Manual Integrations
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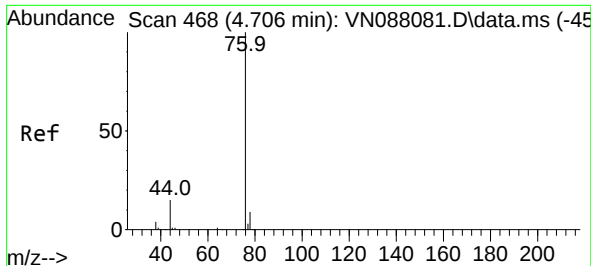
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025



#16
Acetone
Concen: 6.464 ug/l m
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

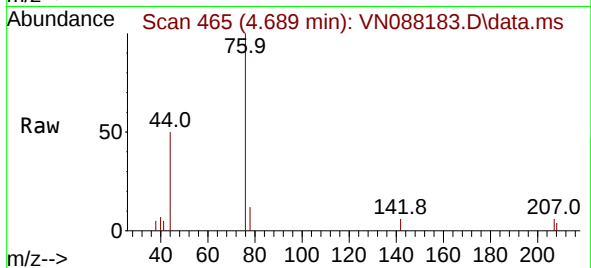
Tgt Ion: 43 Resp: 12805
Ion Ratio Lower Upper
43 100
58 18.9 22.6 33.8#





#17
Carbon Disulfide
Concen: 1.276 ug/l
RT: 4.689 min Scan# 465
Delta R.T. -0.012 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

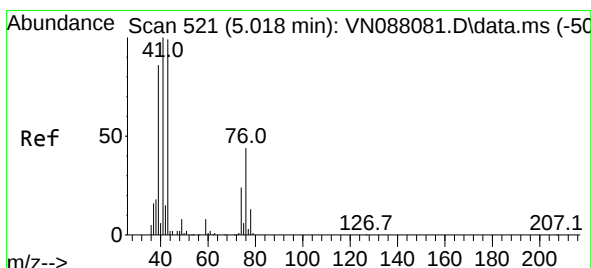
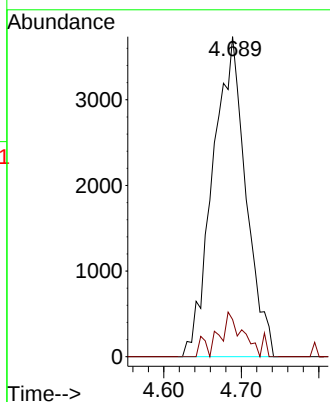
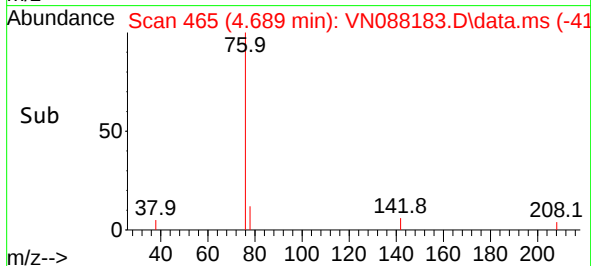
Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01



Tgt Ion: 76 Resp: 1111
Ion Ratio Lower Upper
76 100
78 11.6 7.6 11.4

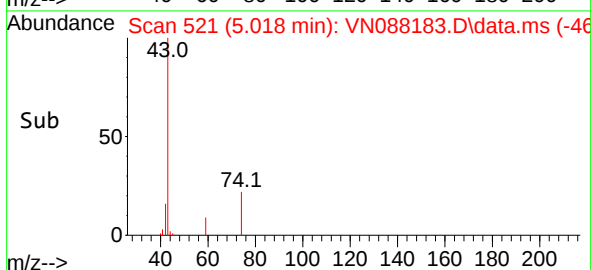
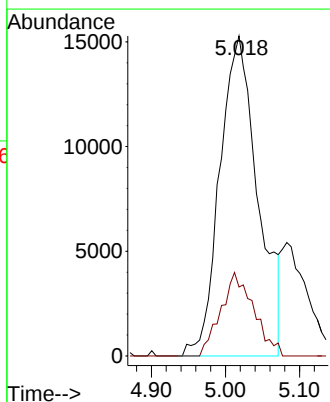
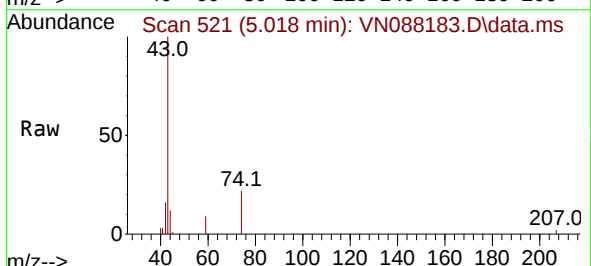
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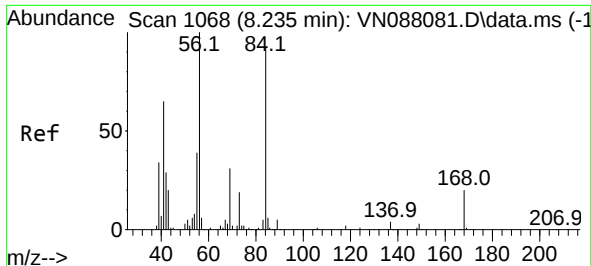
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025



#18
Methyl Acetate
Concen: 13.472 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

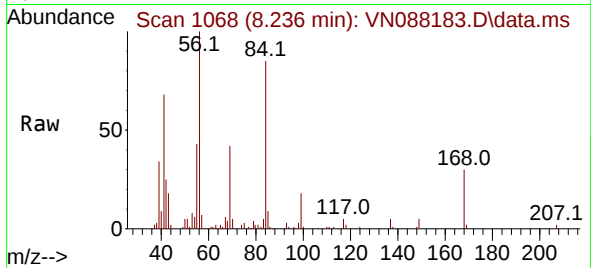
Tgt Ion: 43 Resp: 54636
Ion Ratio Lower Upper
43 100
74 22.5 17.6 26.4





#31
Cyclohexane
Concen: 22.524 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

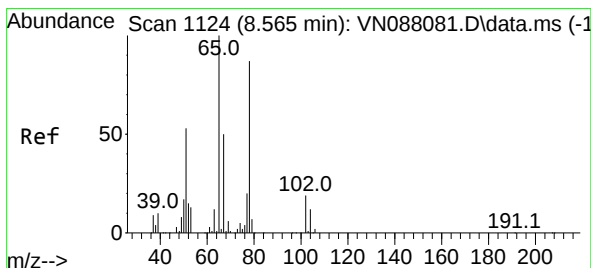
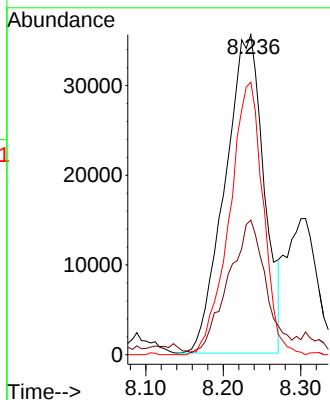
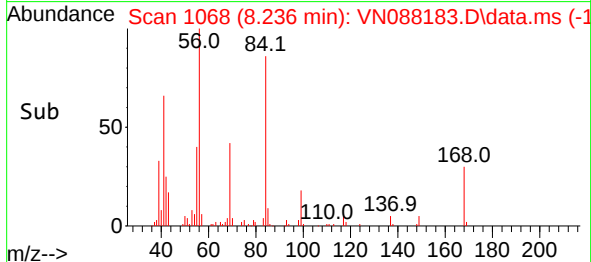
Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01



Tgt Ion: 56 Resp: 124320
Ion Ratio Lower Upper
56 100
69 40.0 23.7 35.5
84 85.6 64.7 97.1

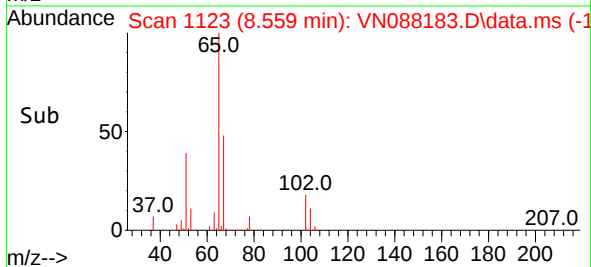
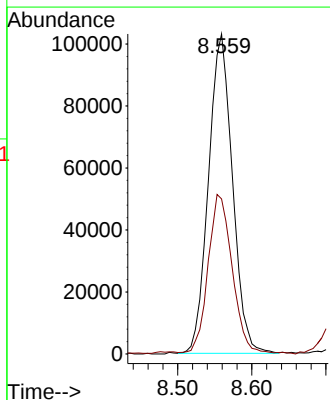
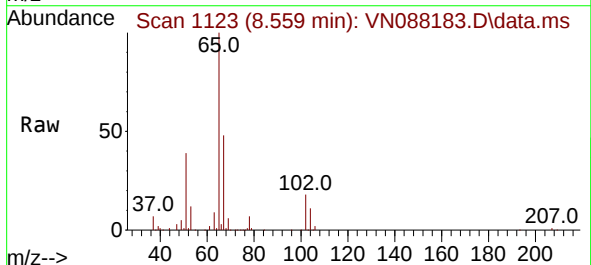
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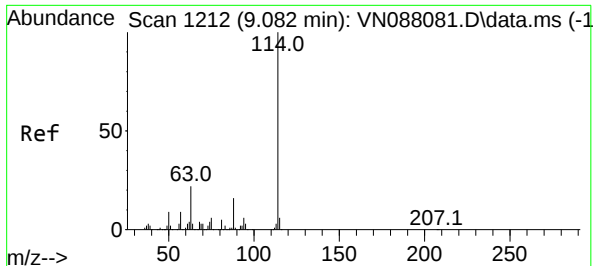
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025



#33
1,2-Dichloroethane-d4
Concen: 58.727 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion: 65 Resp: 231568
Ion Ratio Lower Upper
65 100
67 50.8 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.077 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN088183.D

Acq: 31 Oct 2025 13:19

Instrument :

MSVOA_N

ClientSampleId :

P001-TW1-251023-01

Tgt Ion:114 Resp: 515714

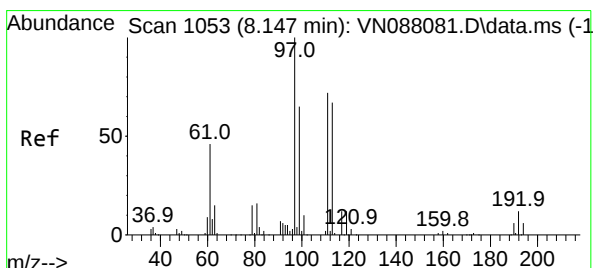
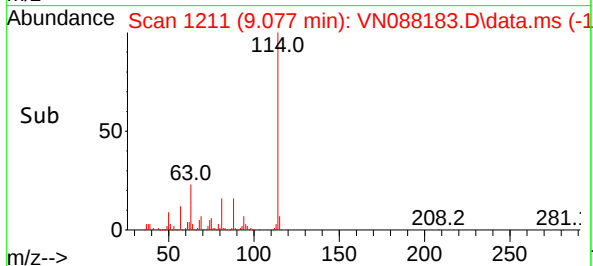
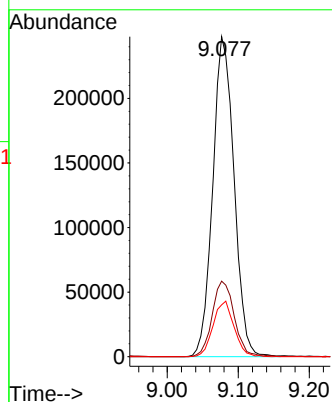
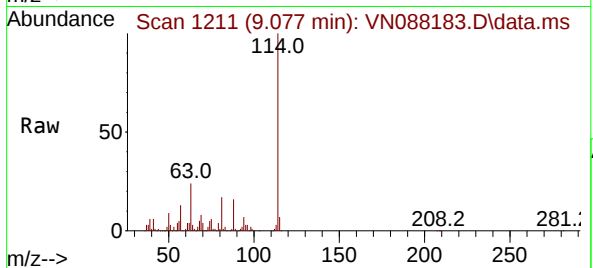
Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	45.2
88	16.2	0.0	33.4

Manual Integrations

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Reviewed By :Amit Patel 11/03/2025

Supervised By :Semsettin Yesilyurt 11/03/2025



#35

Dibromofluoromethane

Concen: 50.331 ug/l

RT: 8.147 min Scan# 1053

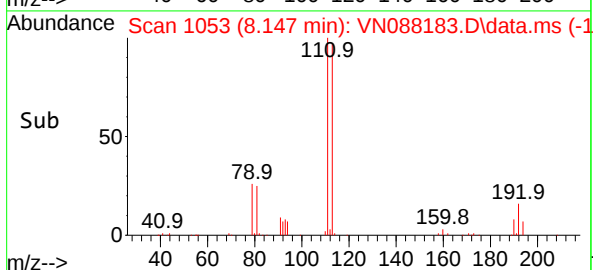
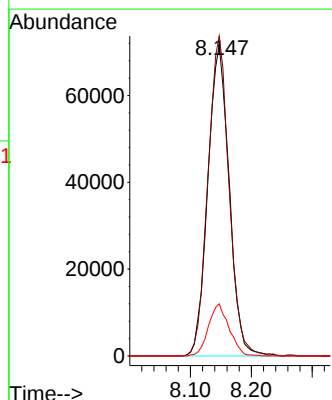
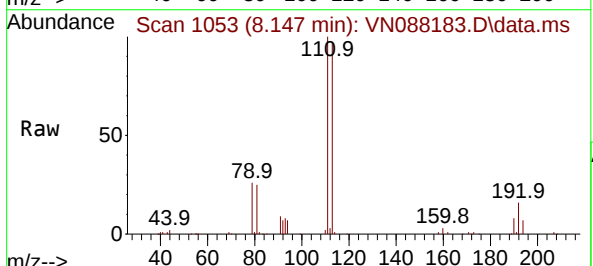
Delta R.T. -0.006 min

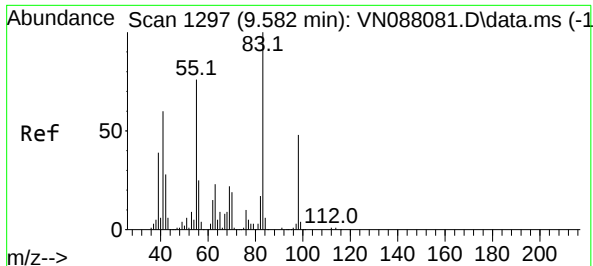
Lab File: VN088183.D

Acq: 31 Oct 2025 13:19

Tgt Ion:113 Resp: 174376

Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.8	124.2
192	16.2	12.8	19.2





#39

Methylcyclohexane

Concen: 46.049 ug/l

RT: 9.577 min Scan# 1127

Delta R.T. -0.006 min

Lab File: VN088183.D

Acq: 31 Oct 2025 13:19

Instrument :

MSVOA_N

ClientSampleId :

P001-TW1-251023-01

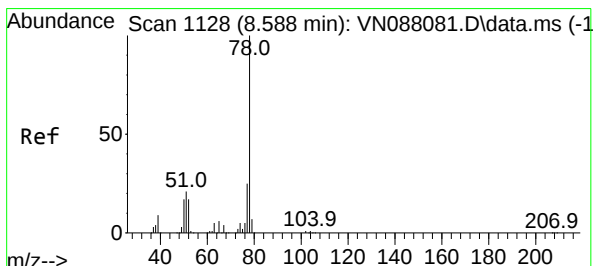
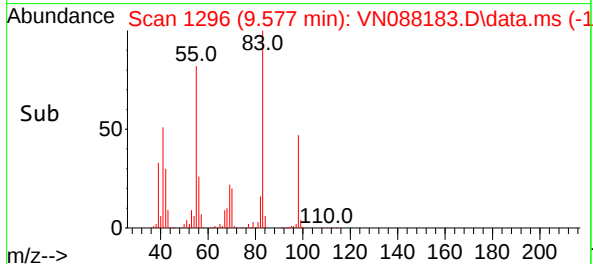
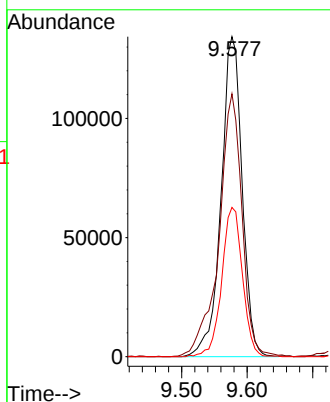
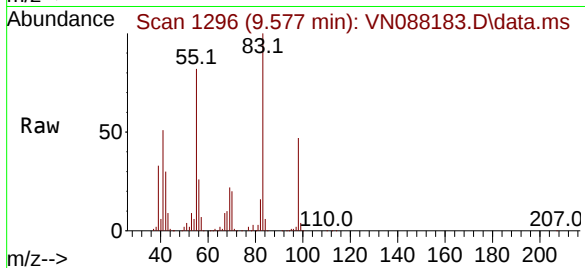
Tgt Ion: 83	Resp: 29942
Ion Ratio	Lower Upper
83	100
55	81.9 64.6 96.8
98	46.6 38.4 57.6

Manual Integrations

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Reviewed By :Amit Patel 11/03/2025

Supervised By :Semsettin Yesilyurt 11/03/2025



#40

Benzene

Concen: 3.657 ug/l

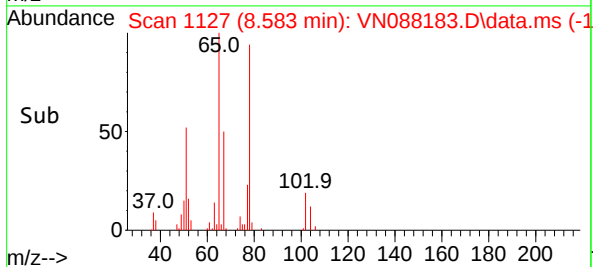
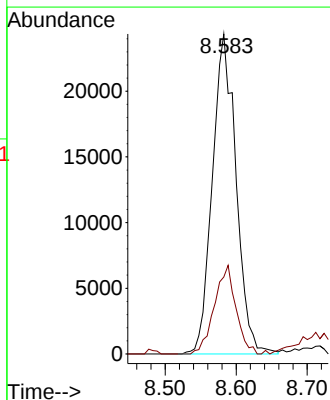
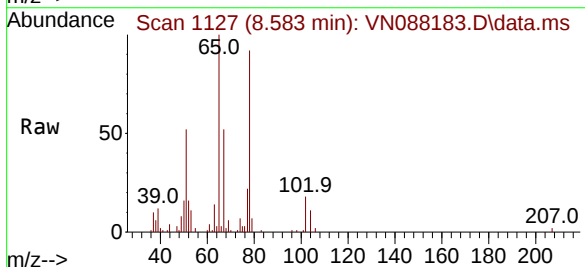
RT: 8.583 min Scan# 1127

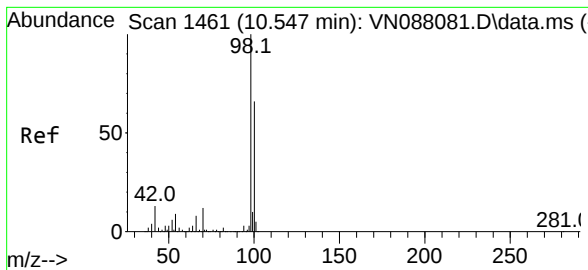
Delta R.T. -0.006 min

Lab File: VN088183.D

Acq: 31 Oct 2025 13:19

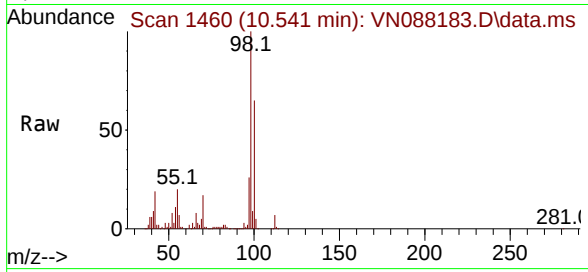
Tgt Ion: 78	Resp: 56347
Ion Ratio	Lower Upper
78	100
77	24.0 19.7 29.5





#50
Toluene-d8
Concen: 50.514 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

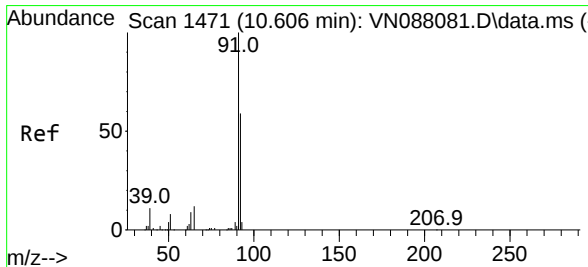
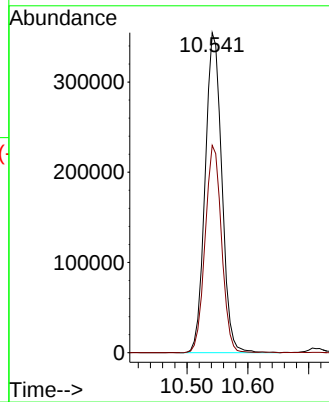
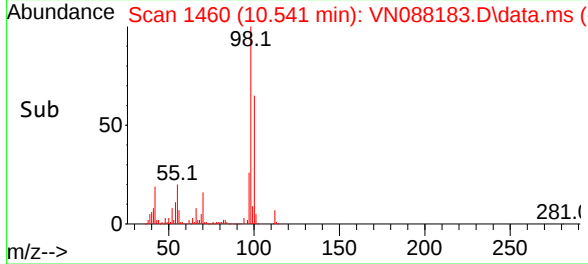
Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01



Tgt Ion: 98 Resp: 67435
Ion Ratio Lower Upper
98 100
100 63.8 52.8 79.2

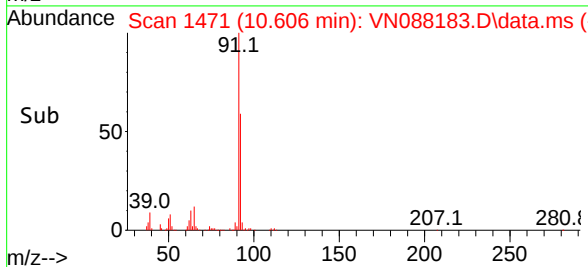
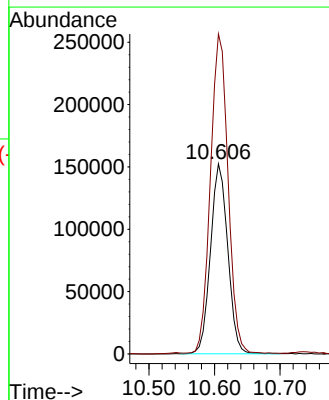
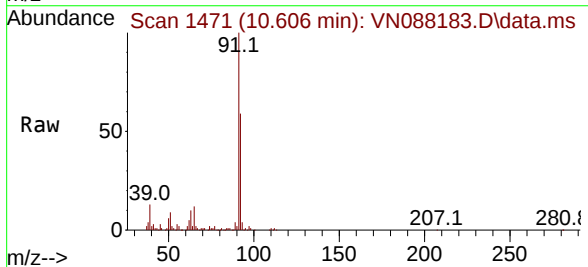
Manual Integrations
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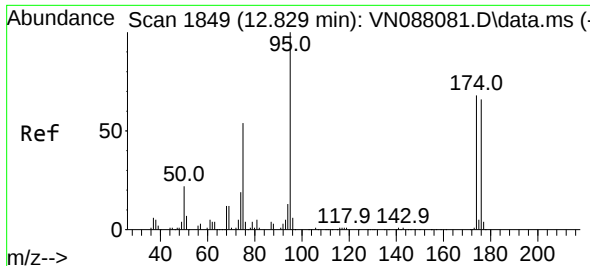
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025



#52
Toluene
Concen: 29.237 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

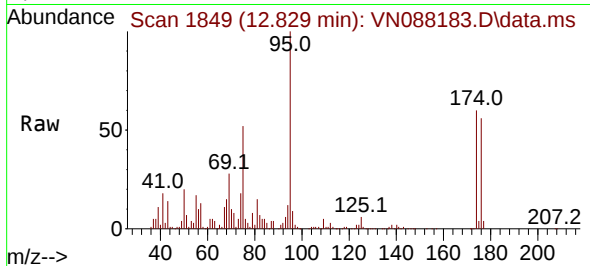
Tgt Ion: 92 Resp: 277707
Ion Ratio Lower Upper
92 100
91 171.9 140.4 210.6





#62
4-Bromofluorobenzene
Concen: 51.617 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

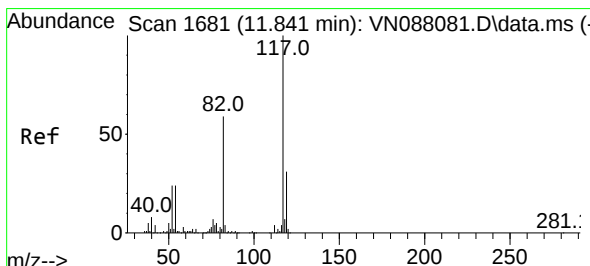
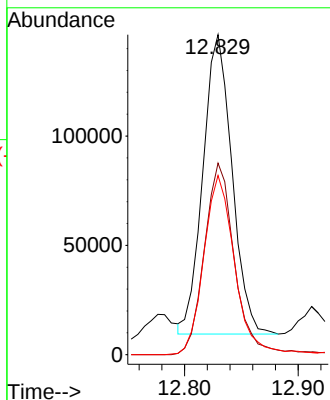
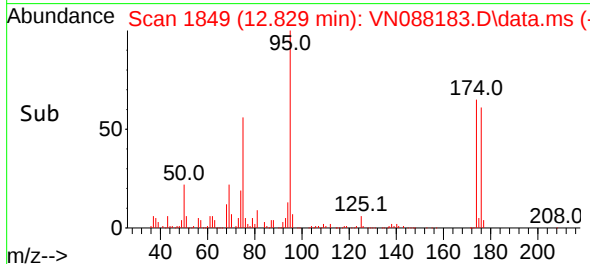
Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01



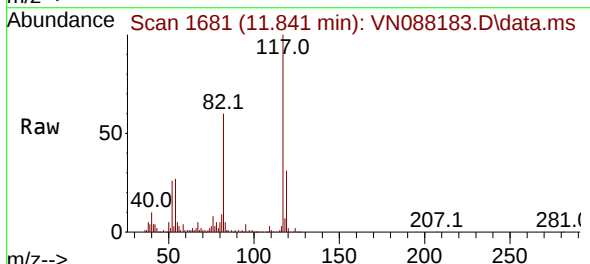
Tgt Ion: 95 Resp: 24335
Ion Ratio Lower Upper
95 100
174 67.3 0.0 138.4
176 63.9 0.0 132.6

Manual Integrations
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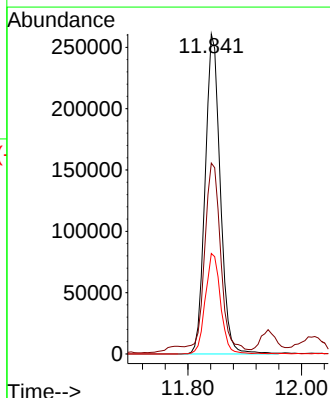
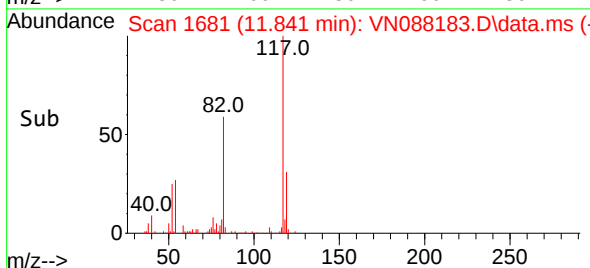
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

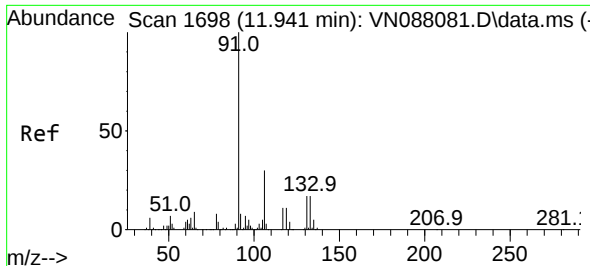


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19



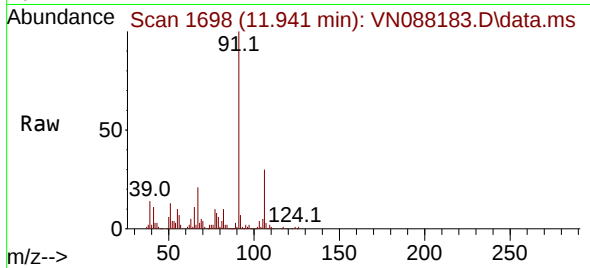
Tgt Ion:117 Resp: 480366
Ion Ratio Lower Upper
117 100
82 57.3 47.4 71.2
119 31.4 24.3 36.5





#67
Ethyl Benzene
Concen: 18.009 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

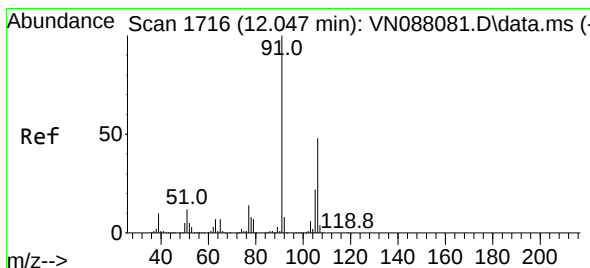
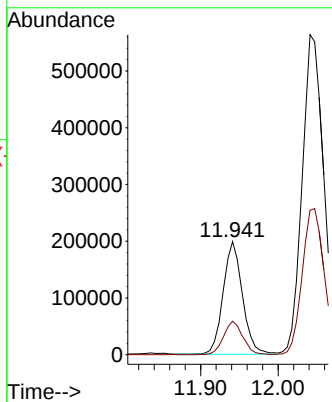
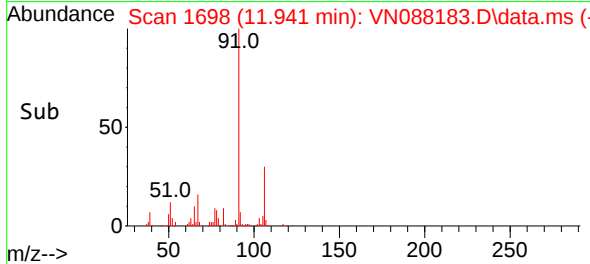
Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01



Tgt Ion: 91 Resp: 344808
Ion Ratio Lower Upper
91 100
106 29.7 24.1 36.1

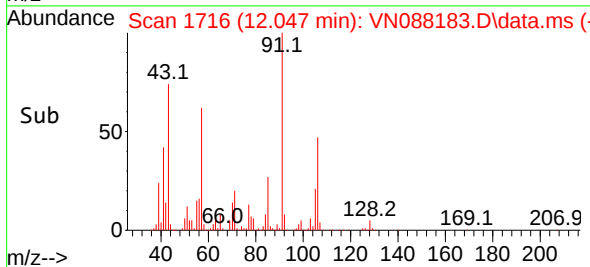
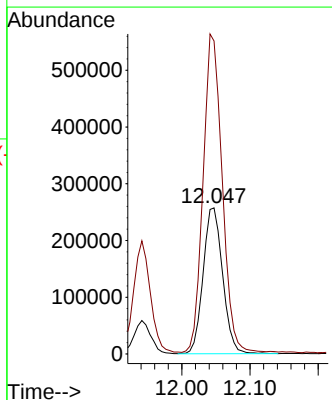
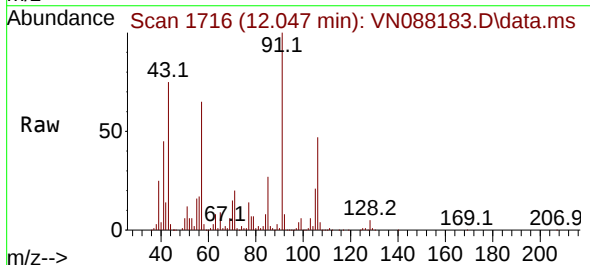
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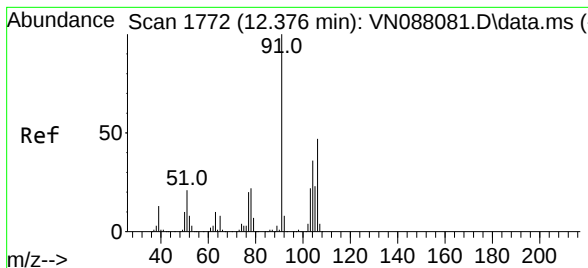
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025



#68
m/p-Xylenes
Concen: 71.376 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

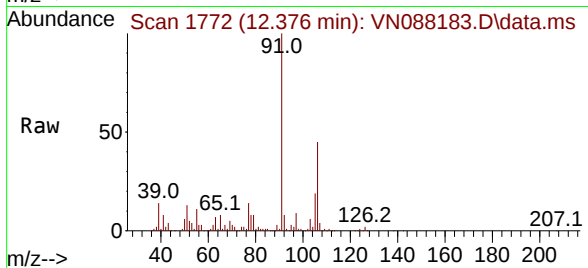
Tgt Ion:106 Resp: 512034
Ion Ratio Lower Upper
106 100
91 213.3 169.3 253.9





#69
o-Xylene
Concen: 35.003 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

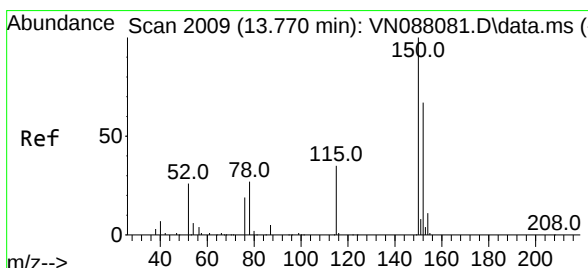
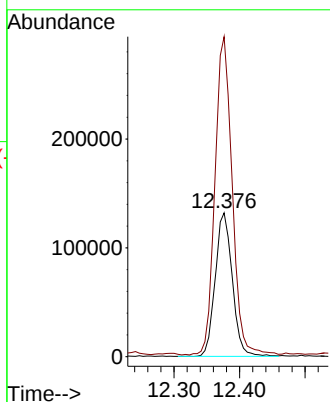
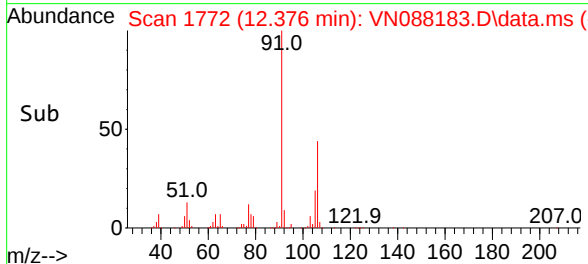
Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01



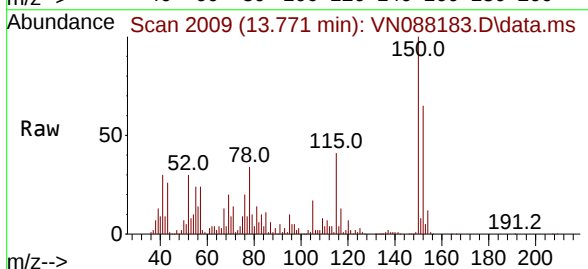
Tgt Ion:106 Resp: 238036
Ion Ratio Lower Upper
106 100
91 222.9 111.4 334.2

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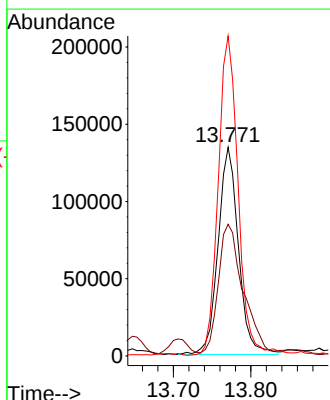
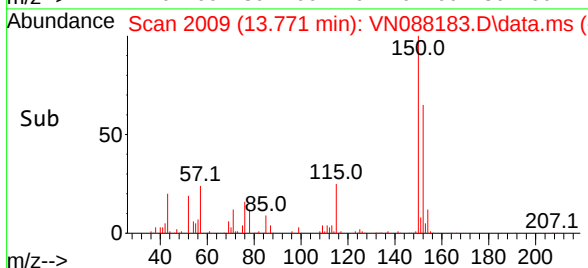
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

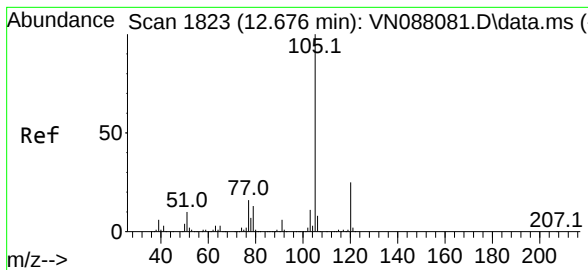


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19



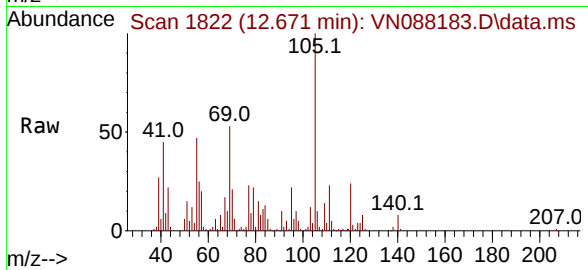
Tgt Ion:152 Resp: 245335
Ion Ratio Lower Upper
152 100
115 74.2 32.3 96.8
150 151.0 0.0 351.0





#73
Isopropylbenzene
Concen: 5.293 ug/l
RT: 12.671 min Scan# 1822
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

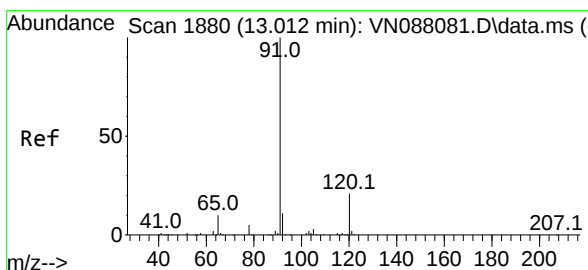
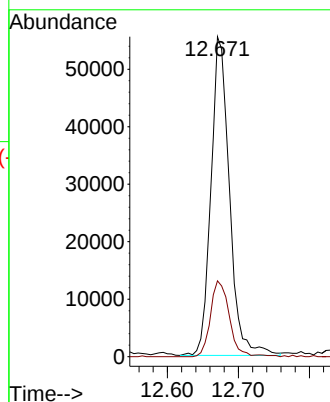
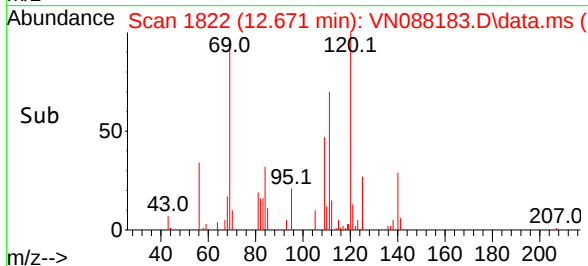
Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01



Tgt Ion:105 Resp: 10015
Ion Ratio Lower Upper
105 100
120 24.0 12.8 38.3

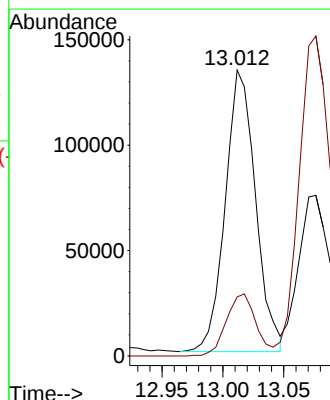
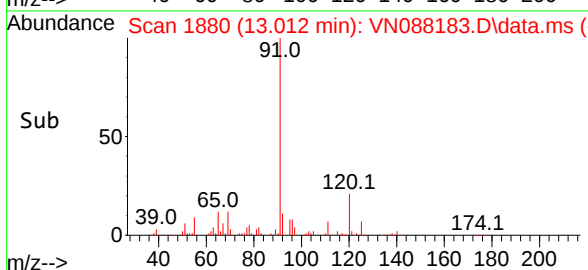
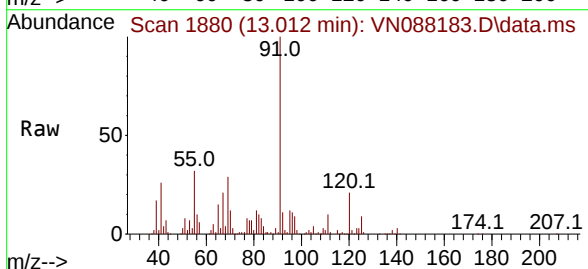
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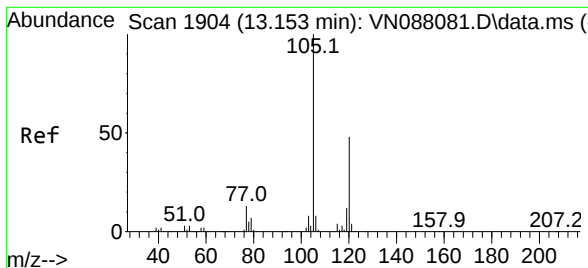
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025



#78
n-propylbenzene
Concen: 10.024 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion: 91 Resp: 231471
Ion Ratio Lower Upper
91 100
120 21.6 10.7 32.1





#80

1,3,5-Trimethylbenzene

Concen: 28.885 ug/l

RT: 13.153 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VN088183.D

Acq: 31 Oct 2025 13:19

Instrument :

MSVOA_N

ClientSampleId :

P001-TW1-251023-01

Tgt Ion:105 Resp: 453919

Ion Ratio Lower Upper

105 100

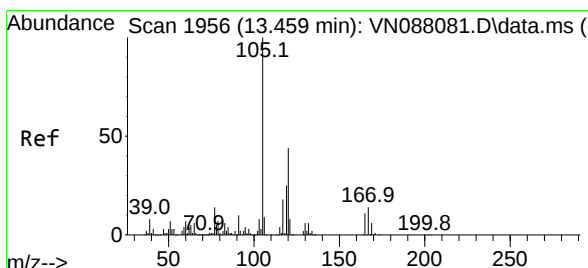
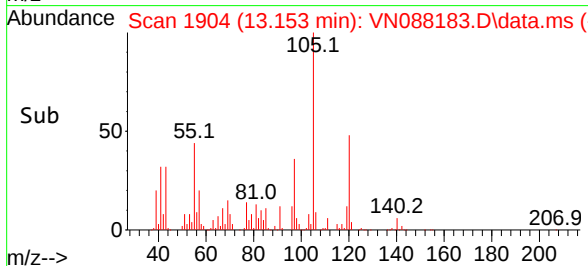
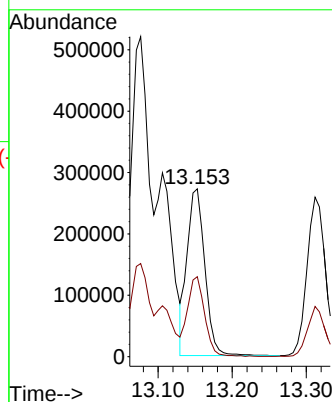
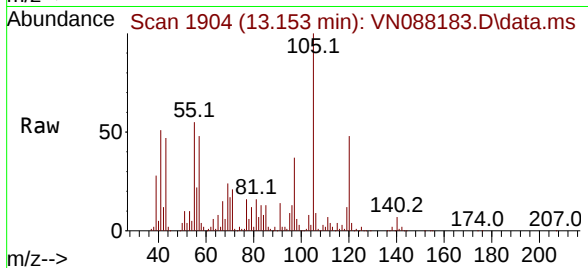
120 46.1 23.2 69.6

Manual Integrations

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Reviewed By :Amit Patel 11/03/2025

Supervised By :Semsettin Yesilyurt 11/03/2025



#84

1,2,4-Trimethylbenzene

Concen: 103.270 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. 0.000 min

Lab File: VN088183.D

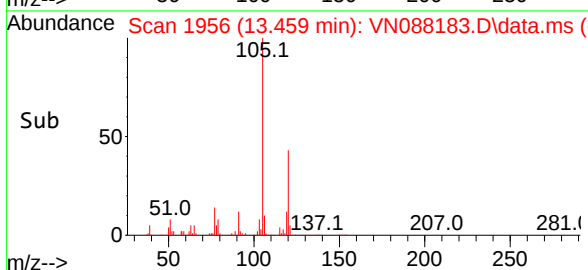
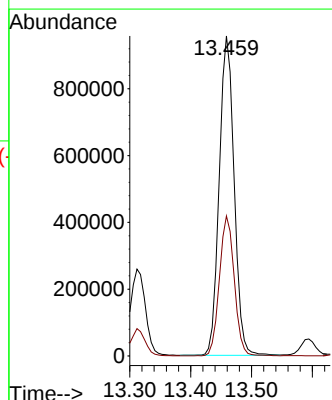
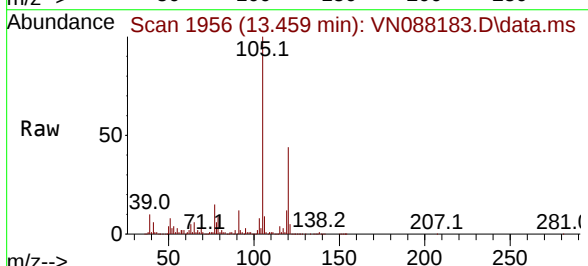
Acq: 31 Oct 2025 13:19

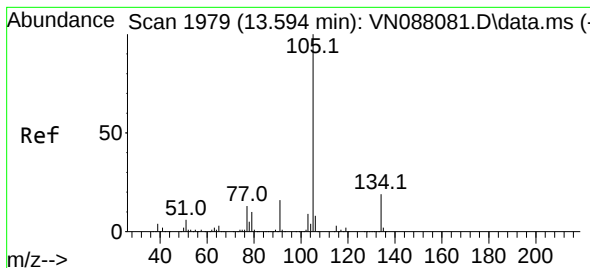
Tgt Ion:105 Resp: 1623716

Ion Ratio Lower Upper

105 100

120 43.6 22.0 66.0





#85

sec-Butylbenzene

Concen: 3.826 ug/l

RT: 13.594 min Scan# 1979

Delta R.T. 0.000 min

Lab File: VN088183.D

Acq: 31 Oct 2025 13:19

Instrument :

MSVOA_N

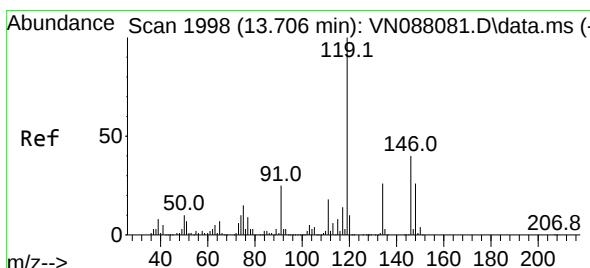
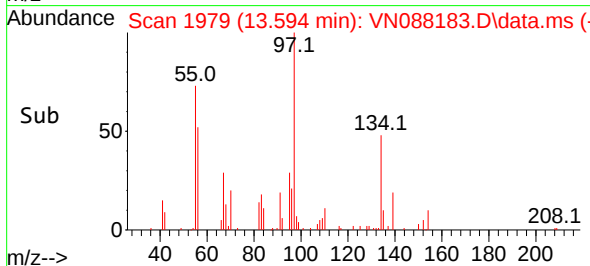
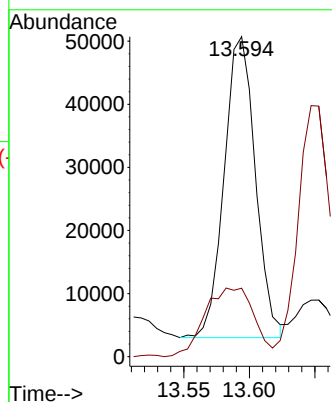
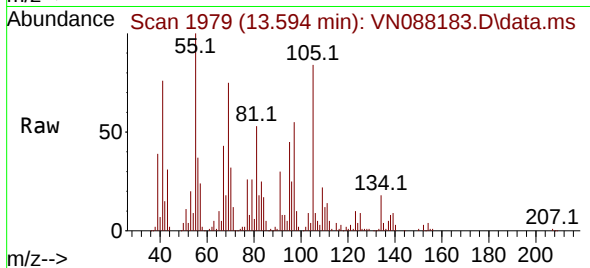
ClientSampleId :

P001-TW1-251023-01

Tgt Ion:105 Resp: 78904
 Ion Ratio Lower Upper
 105 100
 134 35.9 9.6 28.6

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Reviewed By :Amit Patel 11/03/2025
 Supervised By :Semsettin Yesilyurt 11/03/2025



#86

p-Isopropyltoluene

Concen: 14.108 ug/l

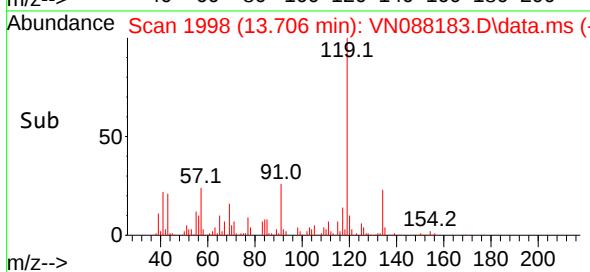
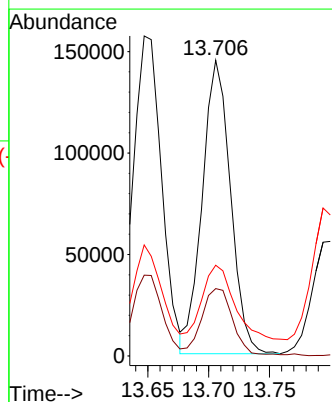
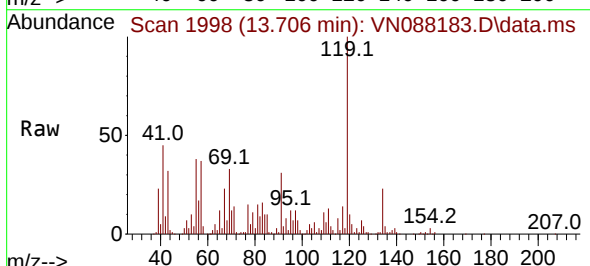
RT: 13.706 min Scan# 1998

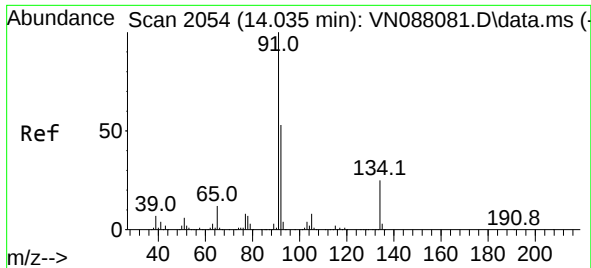
Delta R.T. 0.000 min

Lab File: VN088183.D

Acq: 31 Oct 2025 13:19

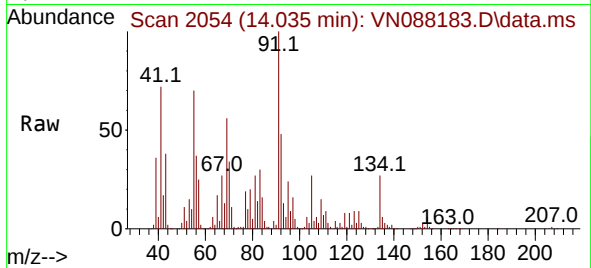
Tgt Ion:119 Resp: 233418
 Ion Ratio Lower Upper
 119 100
 134 25.6 12.7 38.0
 91 28.6 12.5 37.5





#89
 n-Butylbenzene
 Concen: 12.850 ug/l
 RT: 14.035 min Scan# 2054
 Delta R.T. 0.006 min
 Lab File: VN088183.D
 Acq: 31 Oct 2025 13:19

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-TW1-251023-01



Tgt Ion: 91 Resp: 21059

Ion	Ratio	Lower	Upper
91	100		
92	67.5	25.9	77.8
134	0.0	11.7	35.0

Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
 Supervised By :Semsettin Yesilyurt 11/03/2025

