

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
 Data File : VN085413.D
 Acq On : 09 Jan 2025 16:50
 Operator : JC\MD
 Sample : Q1049-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK-257952

Quant Time: Jan 10 00:24:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

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

Internal Standards						
1) Pentafluorobenzene	8.212	168	250250	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	438371	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	423863	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	175406	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	164405	46.061	ug/l	-0.01
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.120%		
35) Dibromofluoromethane	8.153	113	126702	46.330	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.660%		
50) Toluene-d8	10.559	98	556189	55.422	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	110.840%		
62) 4-Bromofluorobenzene	12.847	95	200362	60.117	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	120.240%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.489	59	17827	39.886	ug/l	99
13) Acrolein	4.177	56	7961	11.425	ug/l	88
16) Acetone	4.400	43	205082	174.735	ug/l	98
17) Carbon Disulfide	4.706	76	7702	0.910	ug/l	96
18) Methyl Acetate	5.024	43	8756m	2.437	ug/l	
23) Vinyl Acetate	6.618	43	28713	4.138	ug/l	99
25) 2-Butanone	7.465	43	153689	84.406	ug/l	98
31) Cyclohexane	8.235	56	22338	4.234	ug/l #	85
37) Ethyl Acetate	7.565	43	42063	10.569	ug/l #	1
39) Methylcyclohexane	9.594	83	28791	6.930	ug/l	98
40) Benzene	8.594	78	1383264	114.259	ug/l	100
51) 4-Methyl-2-Pentanone	10.441	43	5982	1.624	ug/l	97
52) Toluene	10.624	92	1513667	209.983	ug/l	98
67) Ethyl Benzene	11.959	91	584212	38.352	ug/l	99
68) m/p-Xylenes	12.065	106	975923	175.066	ug/l	100
69) o-Xylene	12.394	106	509985	94.570	ug/l	98
73) Isopropylbenzene	12.688	105	78662	6.236	ug/l	100
78) n-propylbenzene	13.029	91	115521	7.857	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	270800	26.542	ug/l	98
83) tert-Butylbenzene	13.435	119	9022	1.021	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	562375	55.356	ug/l	98
85) sec-Butylbenzene	13.612	105	17754	1.447	ug/l #	47
86) p-Isopropyltoluene	13.723	119	26233	2.714	ug/l	97
89) n-Butylbenzene	14.053	91	11082	1.234	ug/l #	84

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

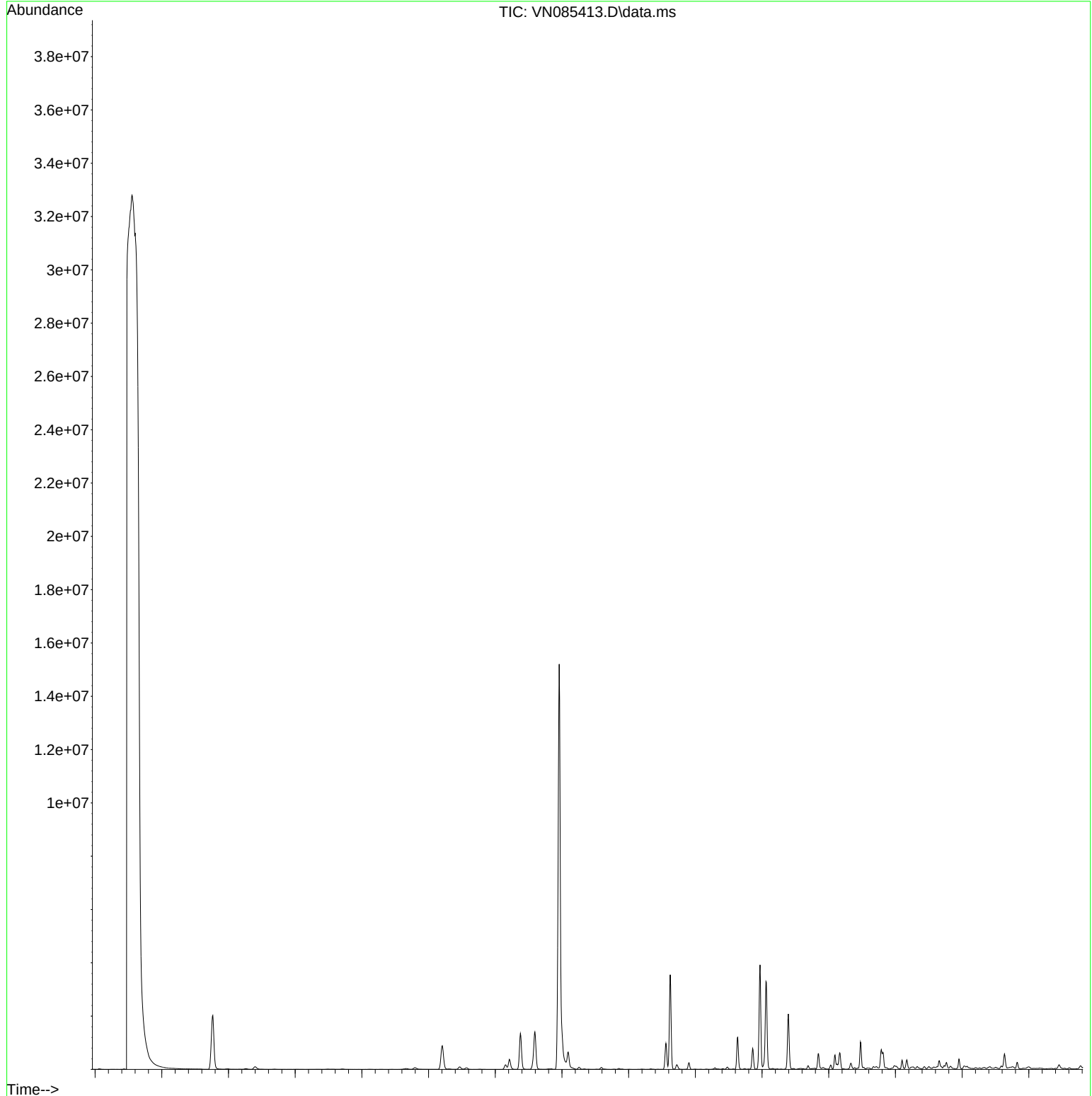
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
Data File : VN085413.D
Acq On : 09 Jan 2025 16:50
Operator : JC\MD
Sample : Q1049-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

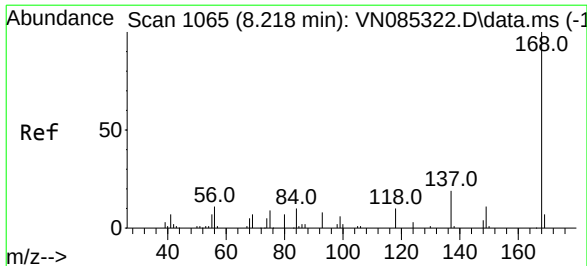
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-257952

Quant Time: Jan 10 00:24:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

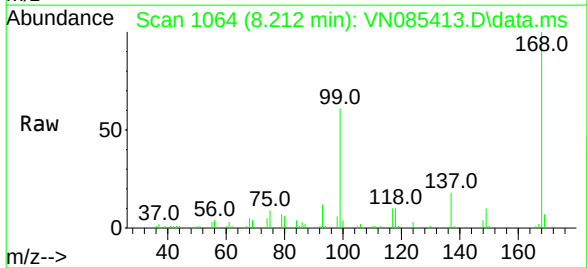
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

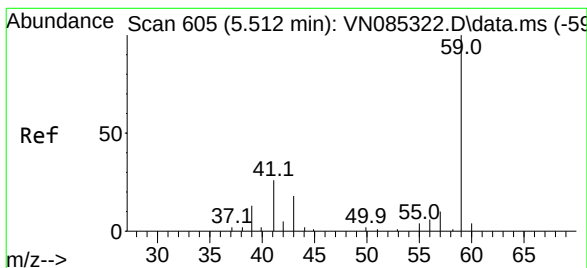
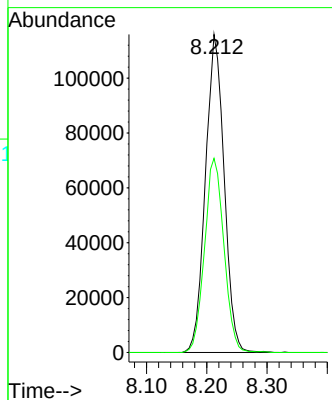
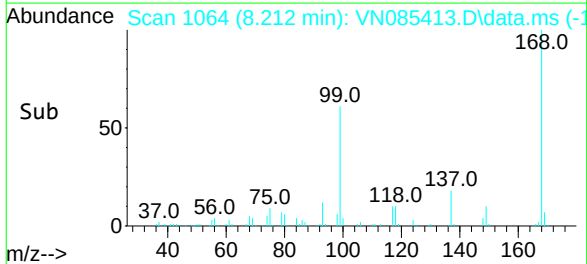
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-257952



Tgt Ion:168 Resp: 250250
Ion Ratio Lower Upper
168 100
99 61.0 51.0 76.4

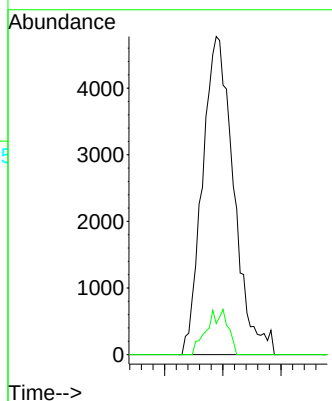
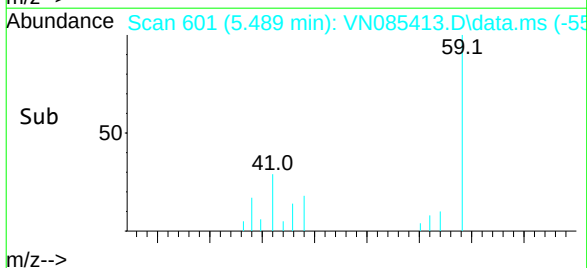
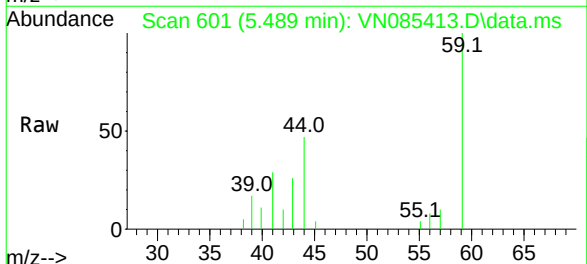
Manual Integrations
APPROVED

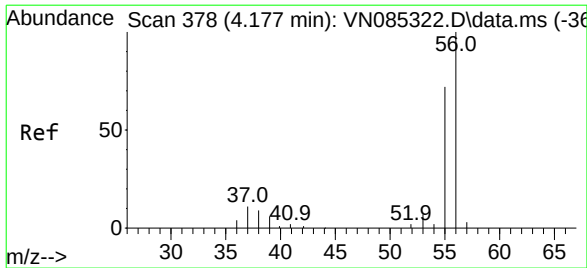
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



#11
Tert butyl alcohol
Concen: 39.886 ug/l
RT: 5.489 min Scan# 601
Delta R.T. -0.023 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

Tgt Ion: 59 Resp: 17827
Ion Ratio Lower Upper
59 100
57 9.6 8.1 12.1





#13

Acrolein

Concen: 11.425 ug/l

RT: 4.177 min Scan# 37

Delta R.T. 0.000 min

Lab File: VN085413.D

Acq: 09 Jan 2025 16:50

Instrument :

MSVOA_N

ClientSampleId :

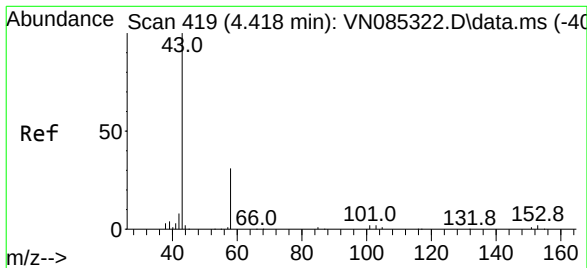
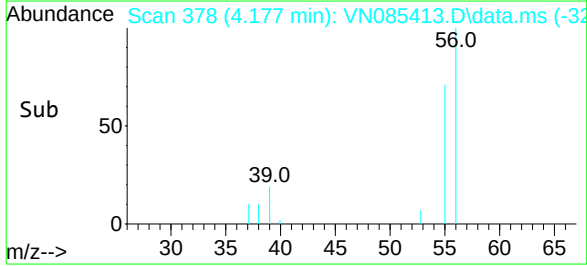
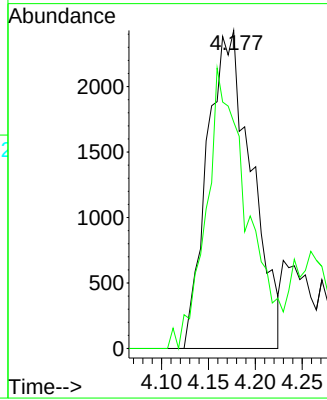
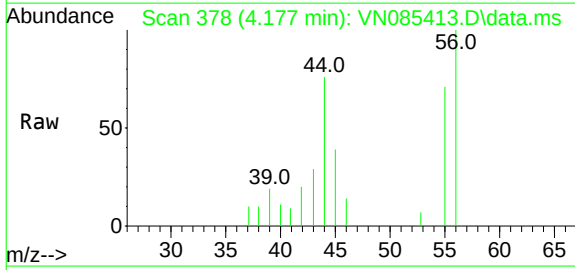
FRAC-TANK-257952

Tgt Ion:	56	Resp:	7961
Ion	Ratio	Lower	Upper
56	100		
55	82.3	57.5	86.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



#16

Acetone

Concen: 174.735 ug/l

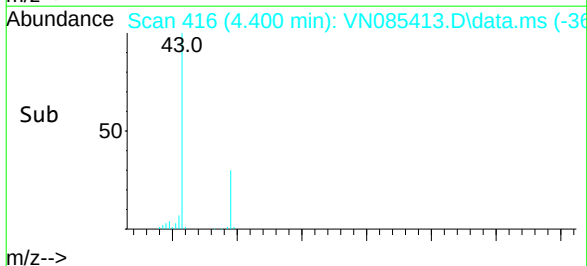
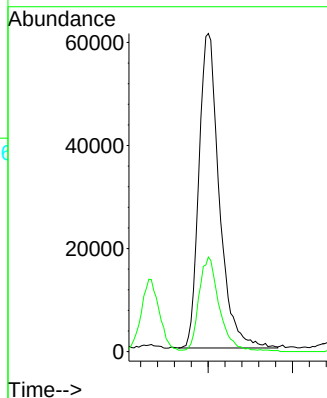
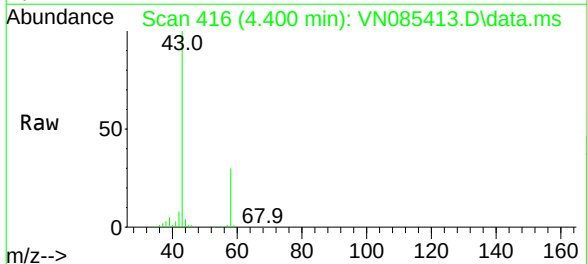
RT: 4.400 min Scan# 416

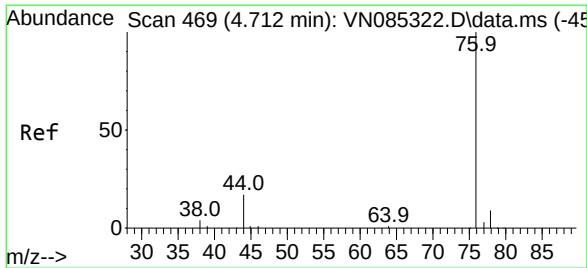
Delta R.T. -0.018 min

Lab File: VN085413.D

Acq: 09 Jan 2025 16:50

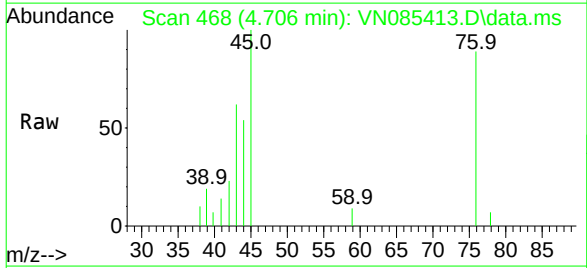
Tgt Ion:	43	Resp:	205082
Ion	Ratio	Lower	Upper
43	100		
58	29.7	24.5	36.7





#17
Carbon Disulfide
Concen: 0.910 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.006 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

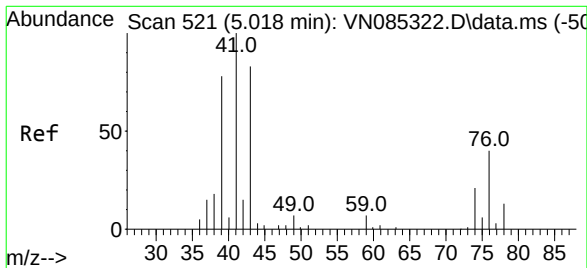
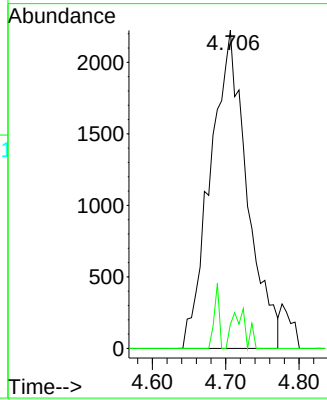
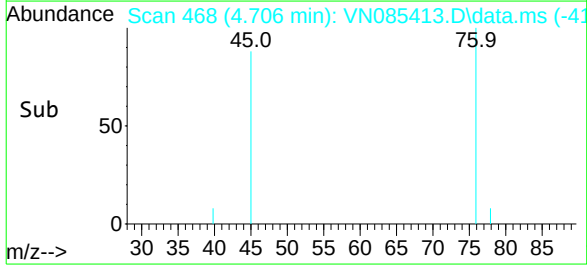
Instrument : MSVOA_N
ClientSampleId : FRAC-TANK-257952



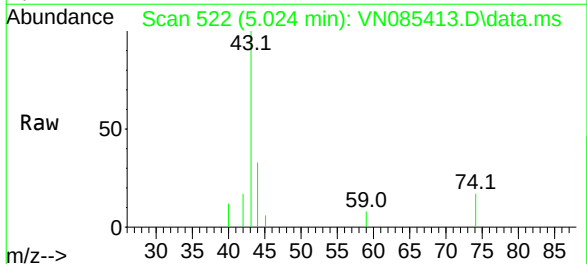
Tgt Ion: 76 Resp: 7702
Ion Ratio Lower Upper
76 100
78 7.6 7.2 10.8

Manual Integrations
APPROVED

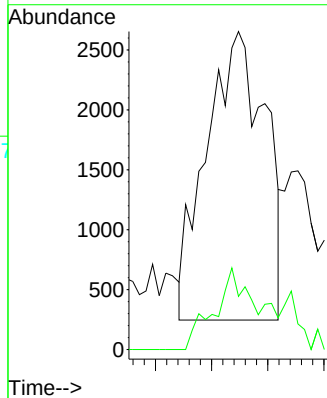
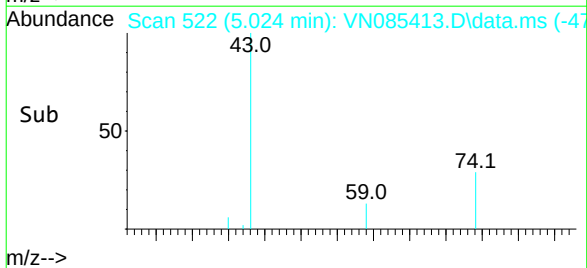
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

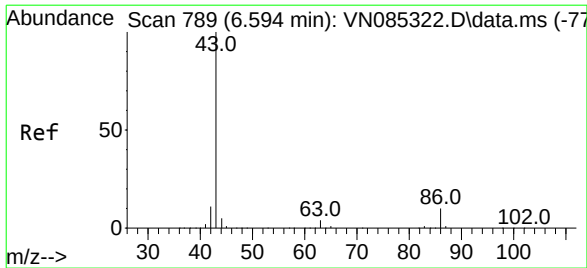


#18
Methyl Acetate
Concen: 2.437 ug/l m
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50



Tgt Ion: 43 Resp: 8756
Ion Ratio Lower Upper
43 100
74 16.6 19.0 28.6#





#23

Vinyl Acetate

Concen: 4.138 ug/l

RT: 6.618 min Scan# 79

Delta R.T. 0.024 min

Lab File: VN085413.D

Acq: 09 Jan 2025 16:50

Instrument :

MSVOA_N

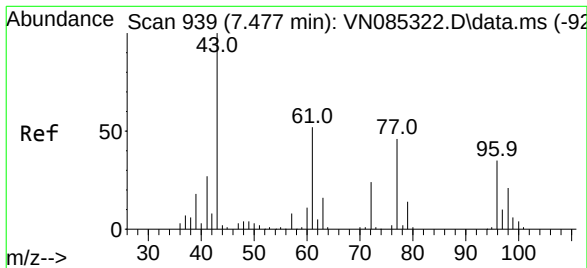
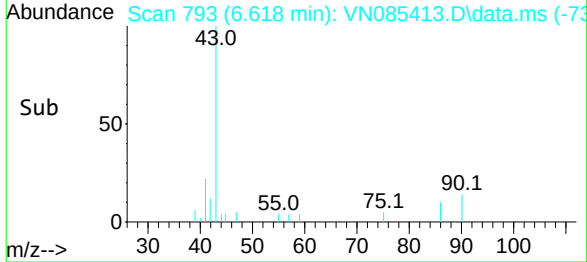
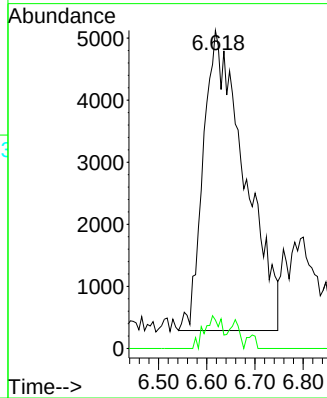
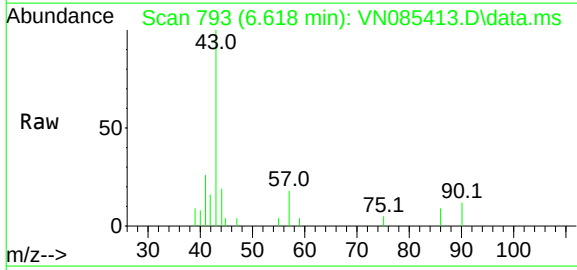
ClientSampleId :

FRAC-TANK-257952

Tgt Ion: 43 Resp: 28713
 Ion Ratio Lower Upper
 43 100
 86 9.5 8.0 12.0

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025



#25

2-Butanone

Concen: 84.406 ug/l

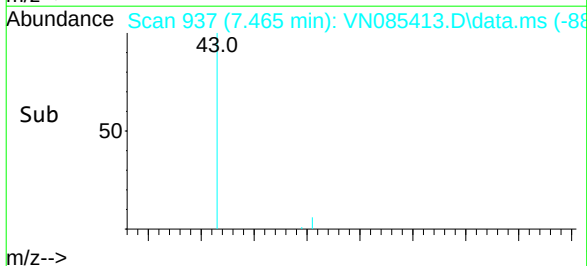
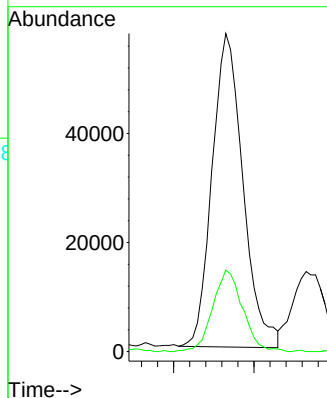
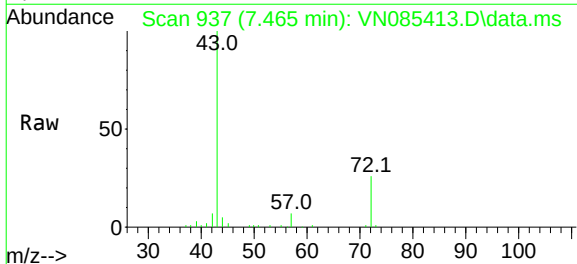
RT: 7.465 min Scan# 937

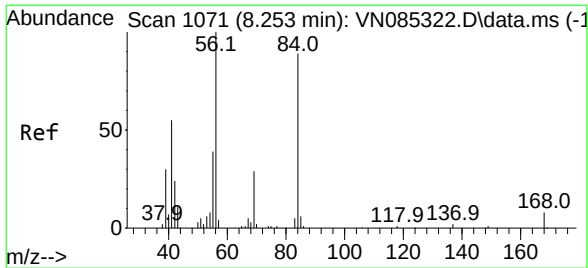
Delta R.T. -0.012 min

Lab File: VN085413.D

Acq: 09 Jan 2025 16:50

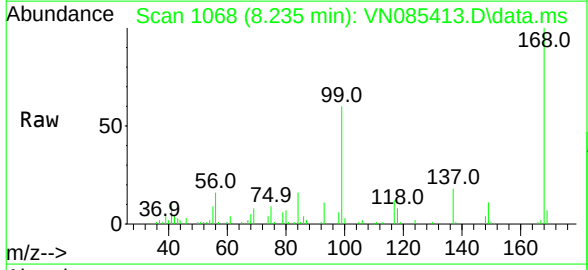
Tgt Ion: 43 Resp: 153689
 Ion Ratio Lower Upper
 43 100
 72 25.7 19.6 29.4





#31
Cyclohexane
Concen: 4.234 ug/l
RT: 8.235 min Scan# 1071
Delta R.T. -0.018 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

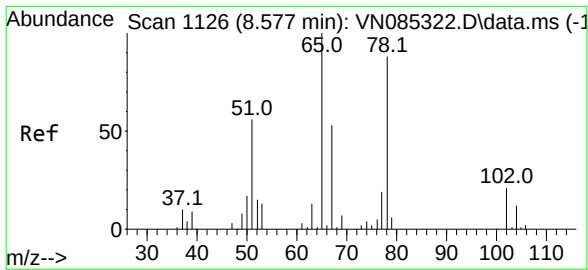
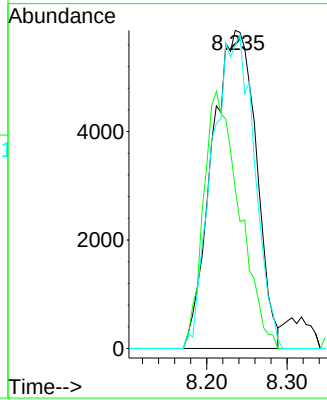
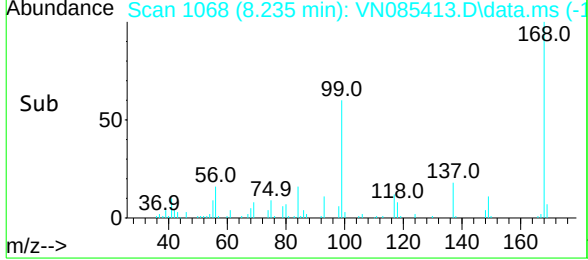
Instrument : MSVOA_N
ClientSampleId : FRAC-TANK-257952



Tgt Ion: 56 Resp: 22338
Ion Ratio Lower Upper
56 100
69 50.1 23.4 35.0#
84 95.3 71.0 106.6

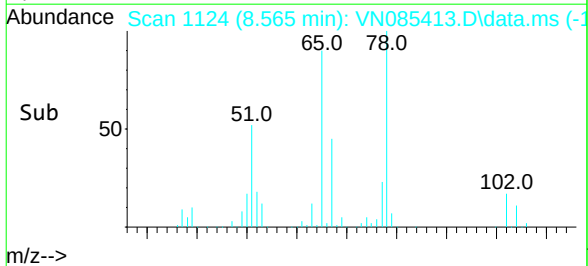
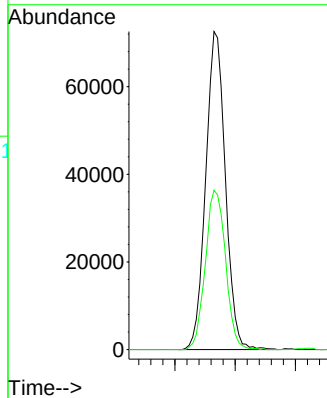
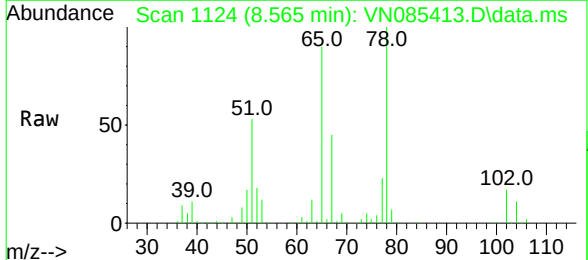
Manual Integrations
APPROVED

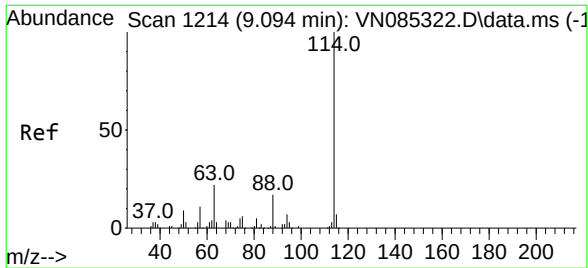
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



#33
1,2-Dichloroethane-d4
Concen: 46.061 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. -0.012 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

Tgt Ion: 65 Resp: 164405
Ion Ratio Lower Upper
65 100
67 51.6 0.0 104.0





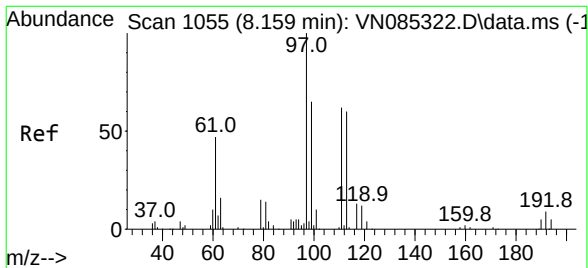
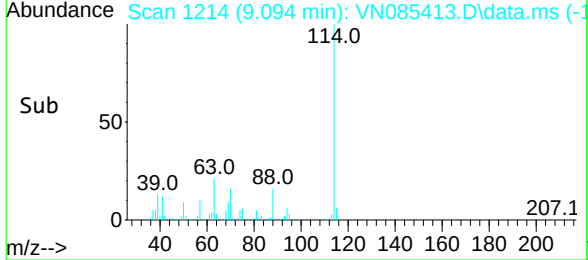
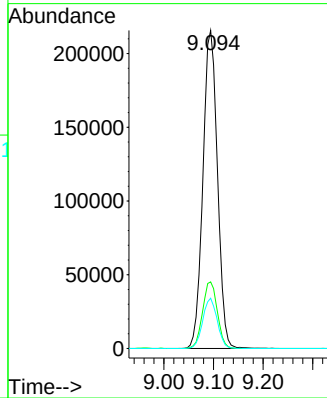
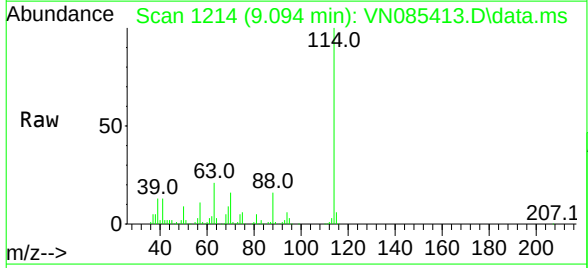
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.000 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-257952

Tgt Ion:114 Resp: 438371
Ion Ratio Lower Upper
114 100
63 20.9 0.0 43.4
88 15.8 0.0 33.6

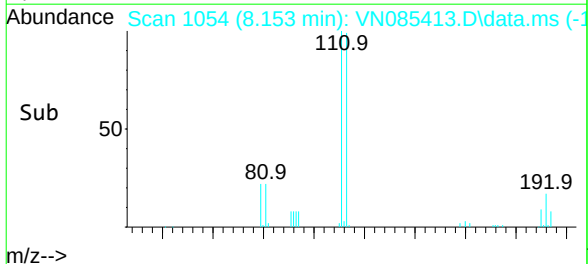
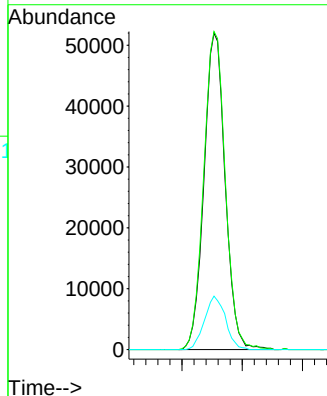
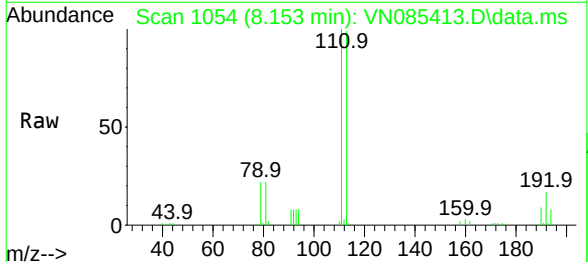
Manual Integrations
APPROVED

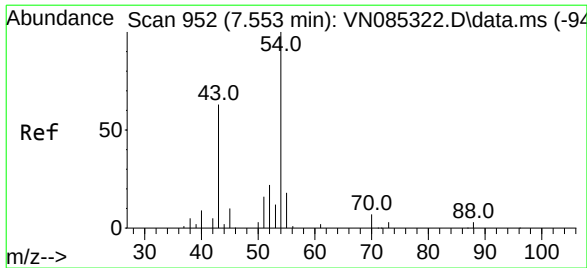
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



#35
Dibromofluoromethane
Concen: 46.330 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. -0.006 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

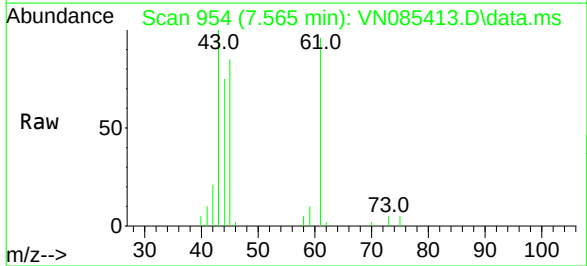
Tgt Ion:113 Resp: 126702
Ion Ratio Lower Upper
113 100
111 102.5 80.5 120.7
192 16.8 12.9 19.3





#37
Ethyl Acetate
Concen: 10.569 ug/l
RT: 7.565 min Scan# 952
Delta R.T. 0.012 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

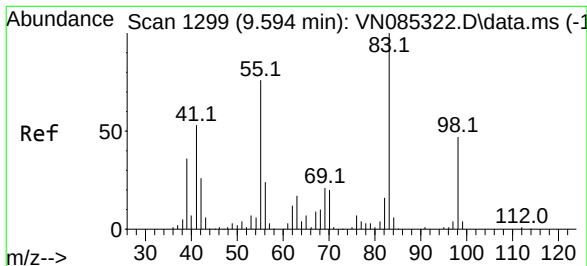
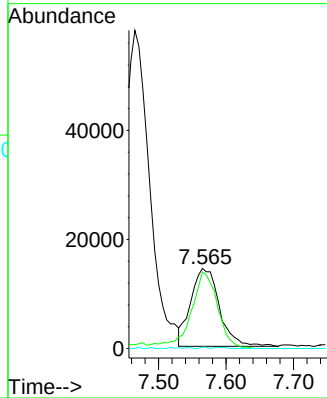
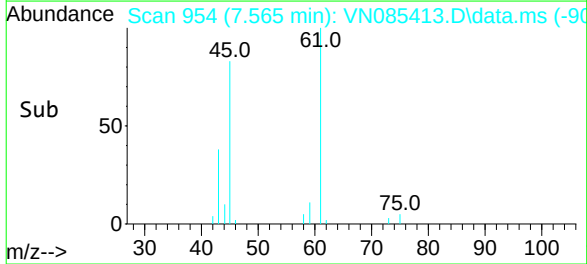
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-257952



Tgt Ion:	43	Resp:	42063
Ion	Ratio	Lower	Upper
43	100		
61	92.1	10.4	15.6#
70	0.4	8.2	12.2#

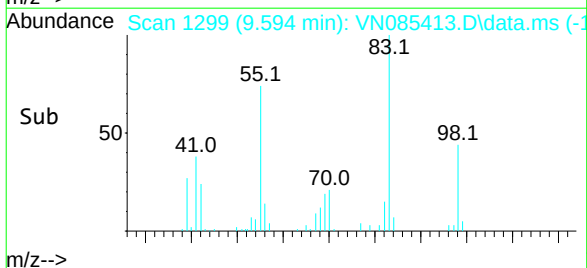
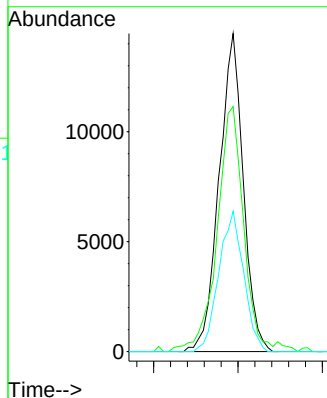
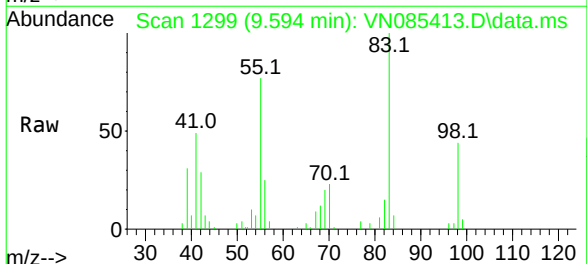
Manual Integrations
APPROVED

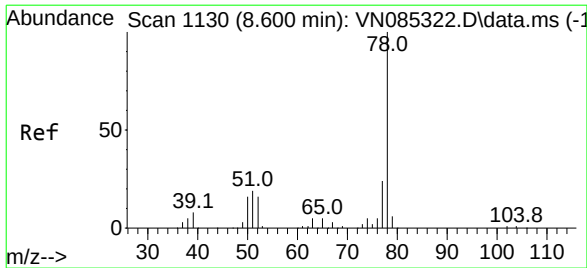
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



#39
Methylcyclohexane
Concen: 6.930 ug/l
RT: 9.594 min Scan# 1299
Delta R.T. 0.000 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

Tgt Ion:	83	Resp:	28791
Ion	Ratio	Lower	Upper
83	100		
55	75.4	60.7	91.1
98	44.2	37.7	56.5





#40

Benzene

Concen: 114.259 ug/l

RT: 8.594 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN085413.D

Acq: 09 Jan 2025 16:50

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-257952

Tgt Ion: 78 Resp: 1383264

Ion Ratio Lower Upper

78 100

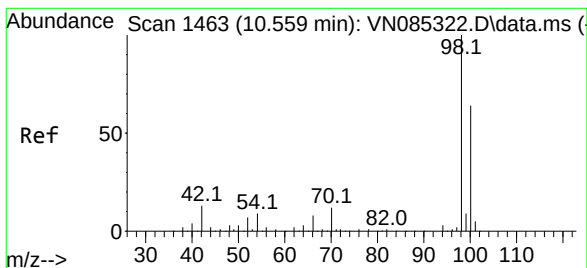
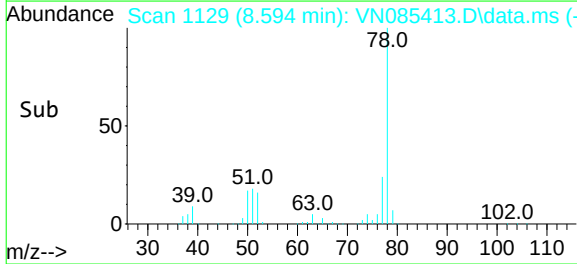
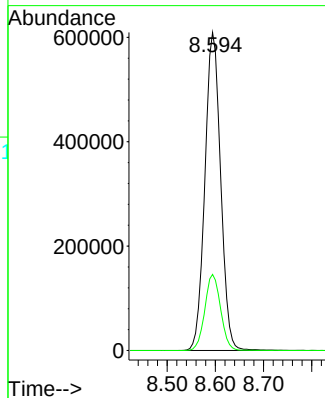
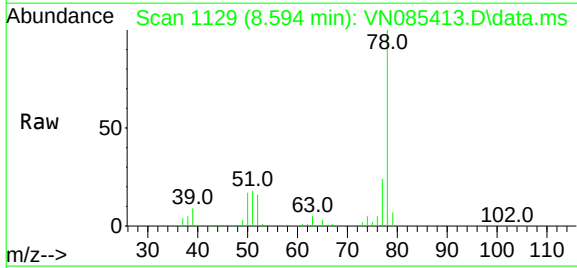
77 23.9 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025

Supervised By :Semsettin Yesilyurt 01/10/2025



#50

Toluene-d8

Concen: 55.422 ug/l

RT: 10.559 min Scan# 1463

Delta R.T. 0.000 min

Lab File: VN085413.D

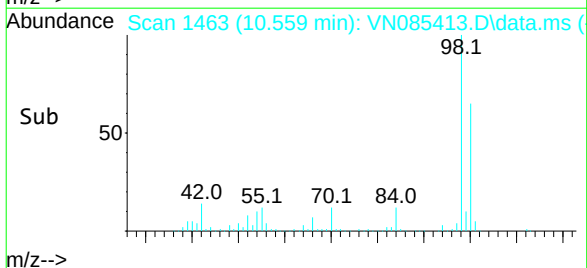
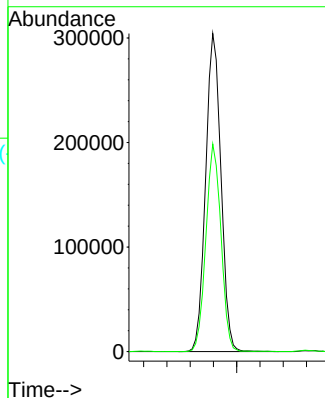
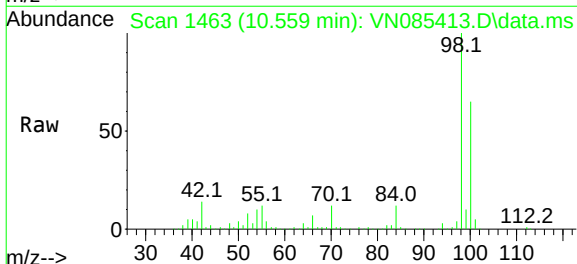
Acq: 09 Jan 2025 16:50

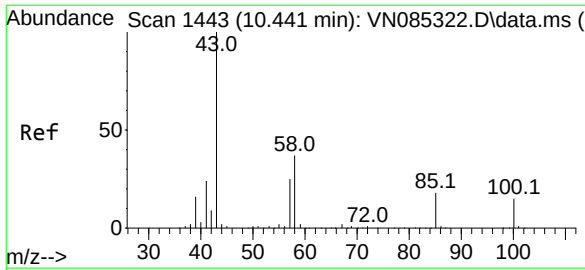
Tgt Ion: 98 Resp: 556189

Ion Ratio Lower Upper

98 100

100 64.2 51.5 77.3





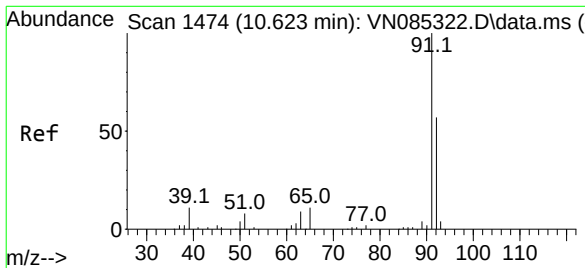
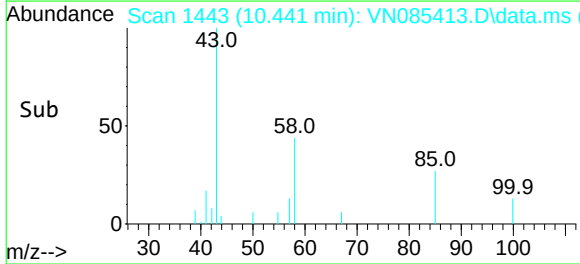
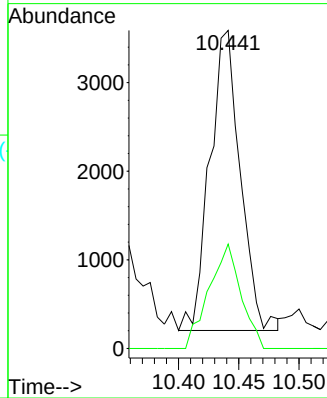
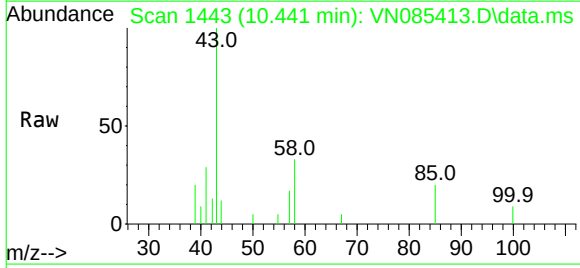
#51
4-Methyl-2-Pentanone
Concen: 1.624 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-257952

Tgt Ion: 43 Resp: 5982
Ion Ratio Lower Upper
43 100
58 36.2 30.3 45.5

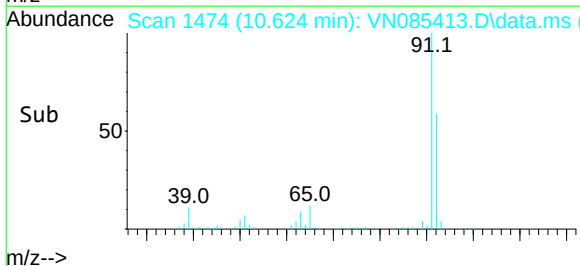
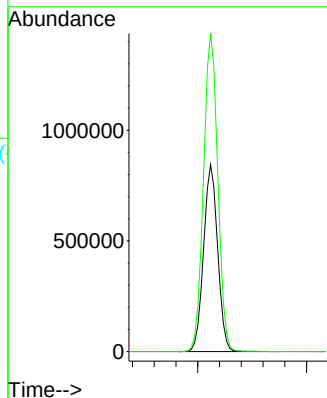
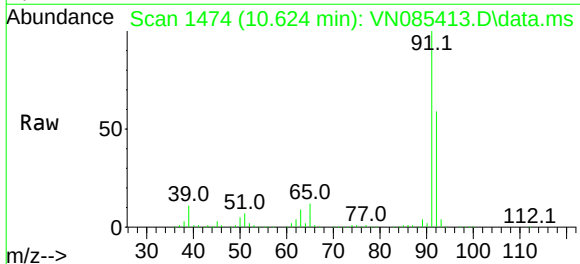
Manual Integrations
APPROVED

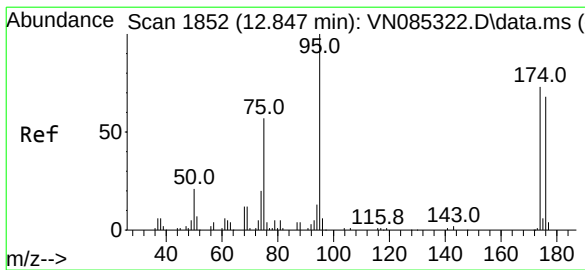
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



#52
Toluene
Concen: 209.983 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

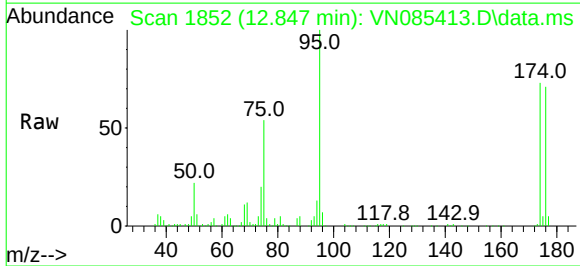
Tgt Ion: 92 Resp: 1513667
Ion Ratio Lower Upper
92 100
91 173.0 140.2 210.4





#62
4-Bromofluorobenzene
Concen: 60.117 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

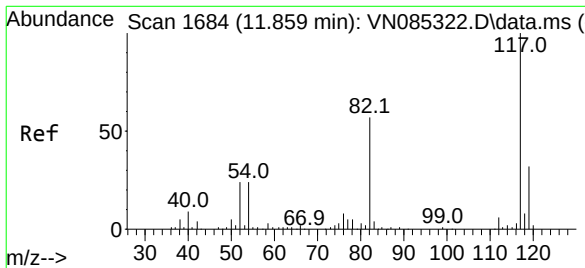
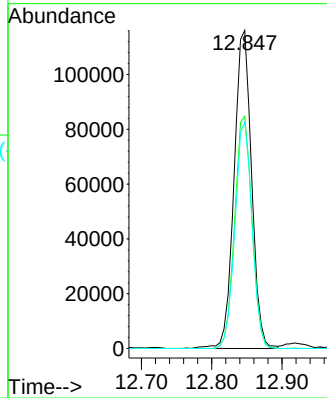
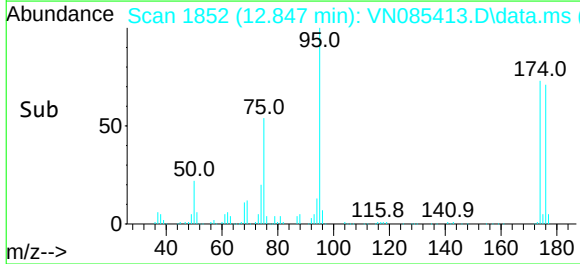
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-257952



Tgt Ion: 95 Resp: 200362
Ion Ratio Lower Upper
95 100
174 72.3 0.0 143.2
176 69.4 0.0 135.8

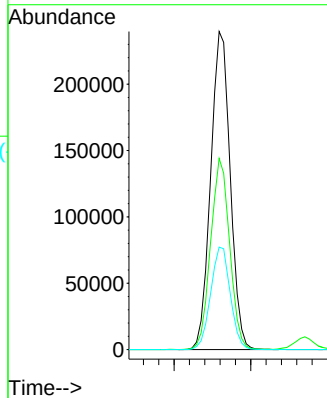
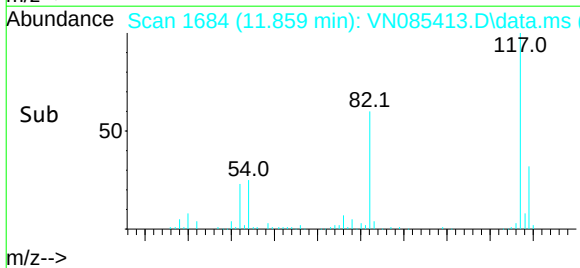
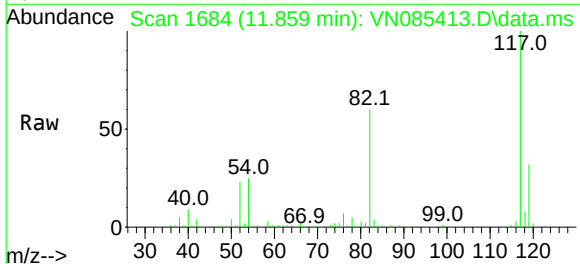
Manual Integrations
APPROVED

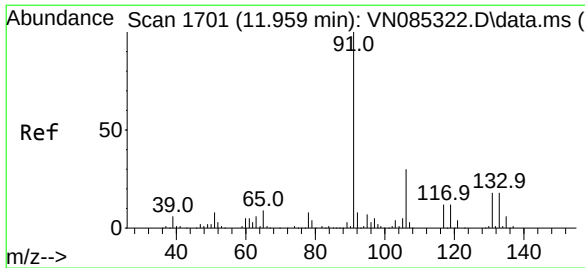
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.859 min Scan# 1684
Delta R.T. 0.000 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

Tgt Ion:117 Resp: 423863
Ion Ratio Lower Upper
117 100
82 60.1 45.7 68.5
119 32.2 25.8 38.8





#67

Ethyl Benzene

Concen: 38.352 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085413.D

Acq: 09 Jan 2025 16:50

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-257952

Tgt Ion: 91 Resp: 584212

Ion Ratio Lower Upper

91 100

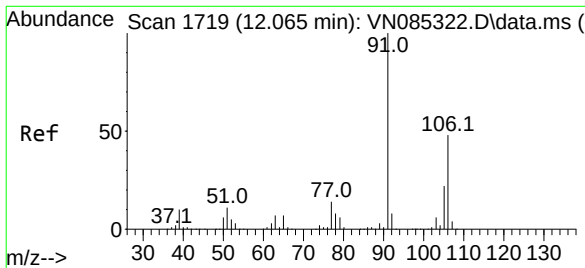
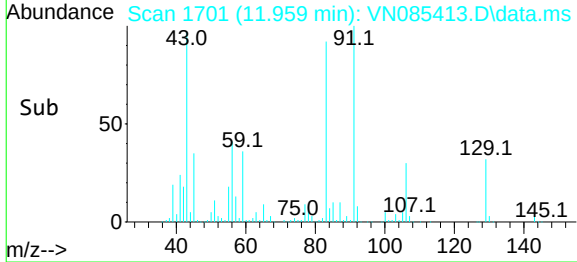
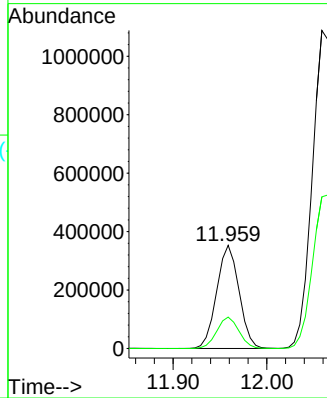
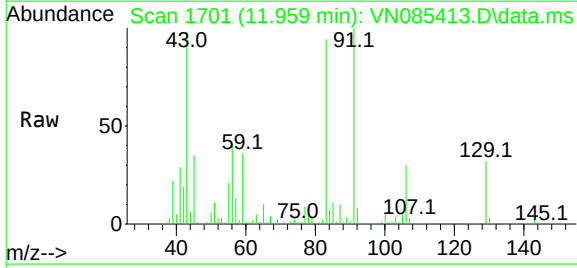
106 30.5 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025

Supervised By :Semsettin Yesilyurt 01/10/2025



#68

m/p-Xylenes

Concen: 175.066 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. 0.000 min

Lab File: VN085413.D

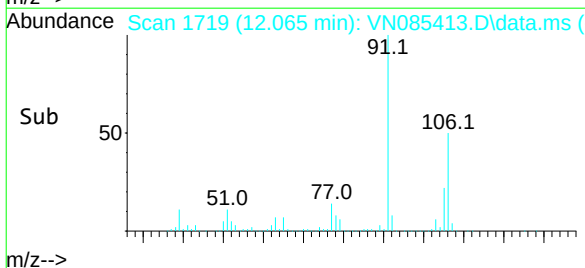
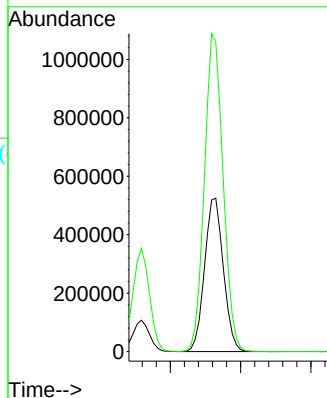
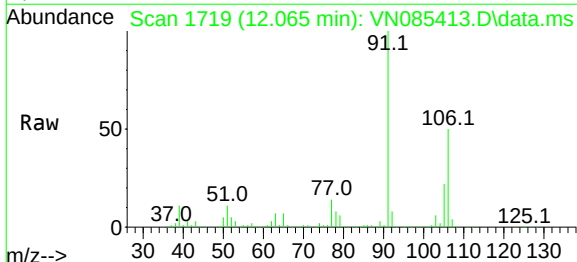
Acq: 09 Jan 2025 16:50

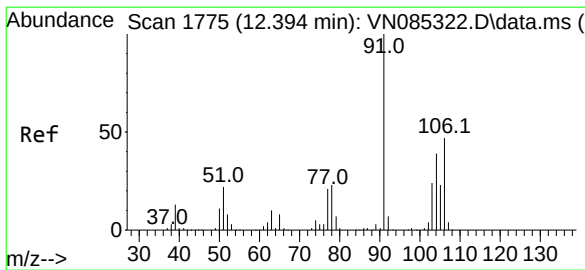
Tgt Ion:106 Resp: 975923

Ion Ratio Lower Upper

106 100

91 205.8 165.2 247.8





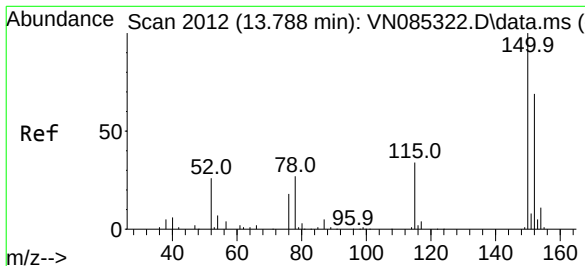
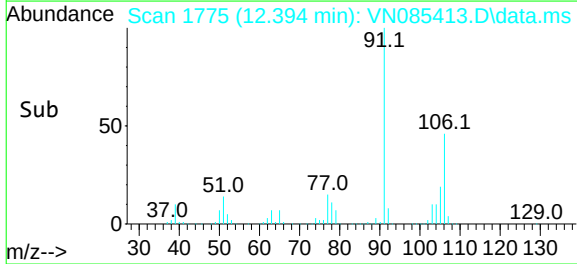
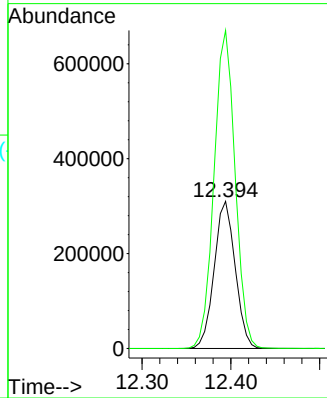
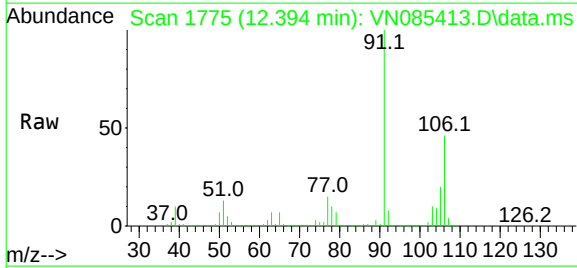
#69
o-Xylene
Concen: 94.570 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-257952

Tgt Ion:106 Resp: 509985
Ion Ratio Lower Upper
106 100
91 216.9 107.3 321.8

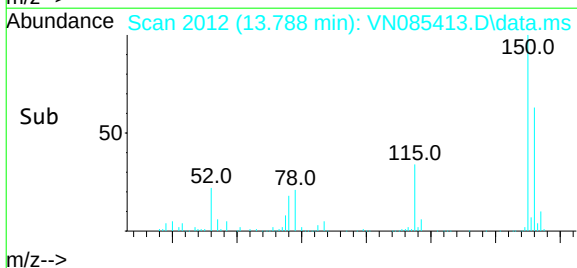
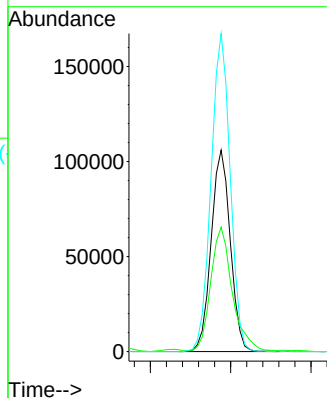
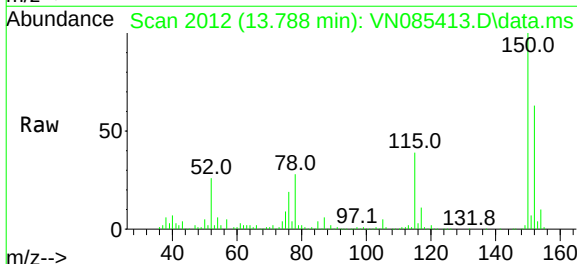
Manual Integrations
APPROVED

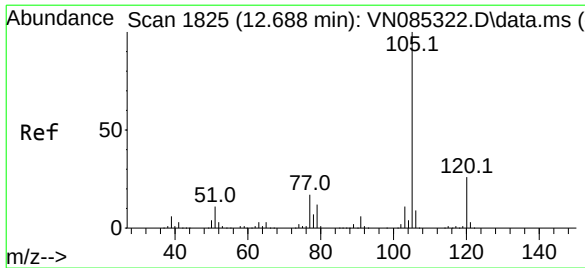
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

Tgt Ion:152 Resp: 175406
Ion Ratio Lower Upper
152 100
115 68.5 30.4 91.3
150 157.8 0.0 345.0





#73

Isopropylbenzene

Concen: 6.236 ug/l

RT: 12.688 min Scan# 1825

Delta R.T. 0.000 min

Lab File: VN085413.D

Acq: 09 Jan 2025 16:50

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-257952

Tgt Ion: 105 Resp: 78662

Ion Ratio Lower Upper

105 100

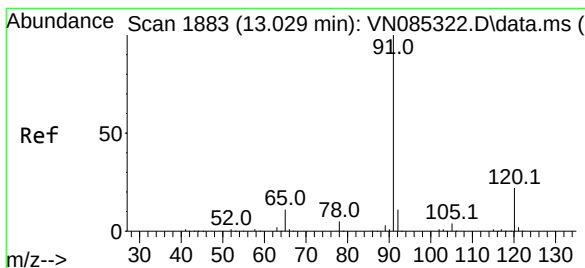
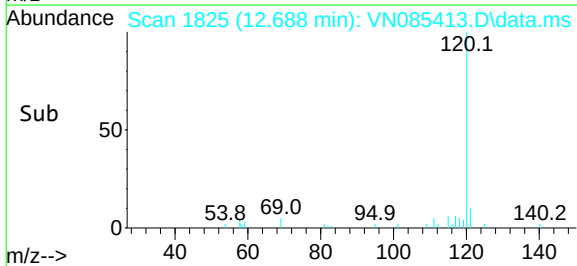
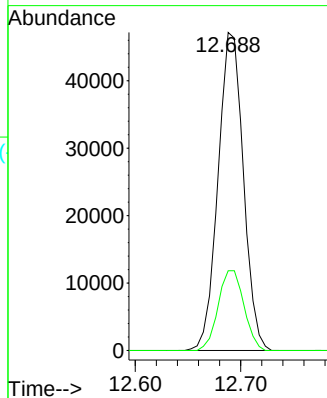
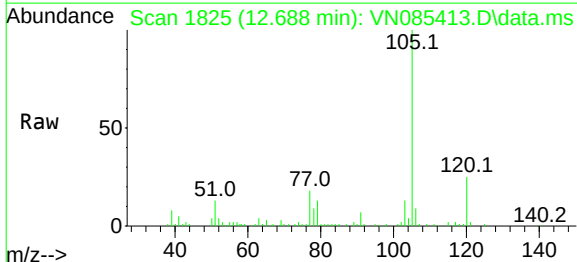
120 25.5 12.9 38.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025

Supervised By :Semsettin Yesilyurt 01/10/2025



#78

n-propylbenzene

Concen: 7.857 ug/l

RT: 13.029 min Scan# 1883

Delta R.T. 0.000 min

Lab File: VN085413.D

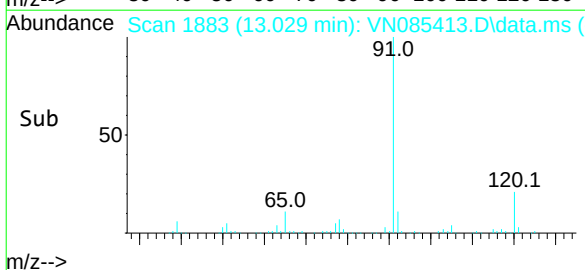
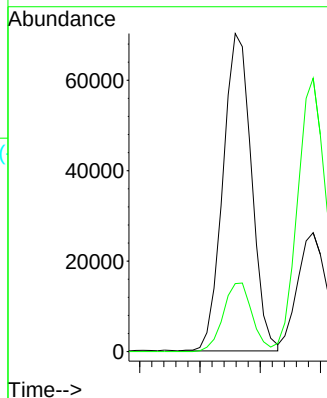
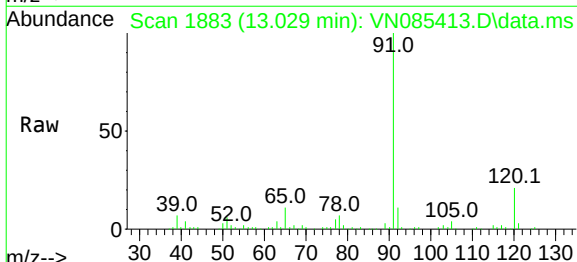
Acq: 09 Jan 2025 16:50

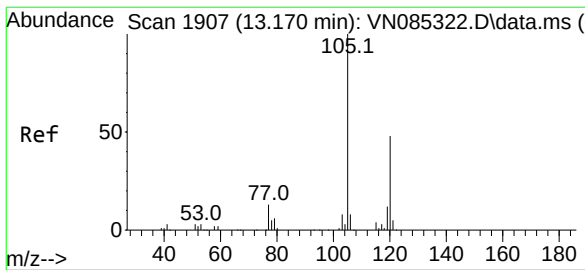
Tgt Ion: 91 Resp: 115521

Ion Ratio Lower Upper

91 100

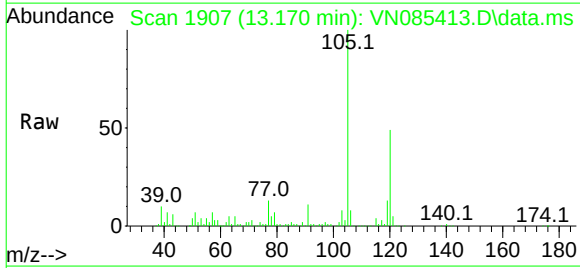
120 21.8 10.9 32.9





#80
1,3,5-Trimethylbenzene
Concen: 26.542 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

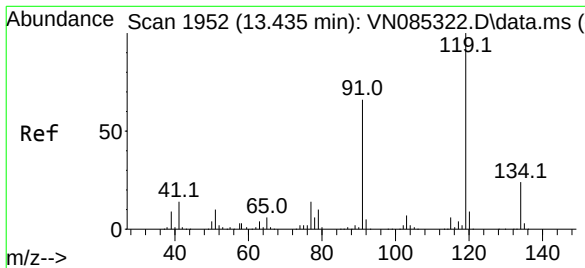
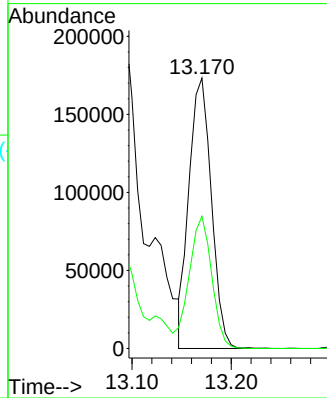
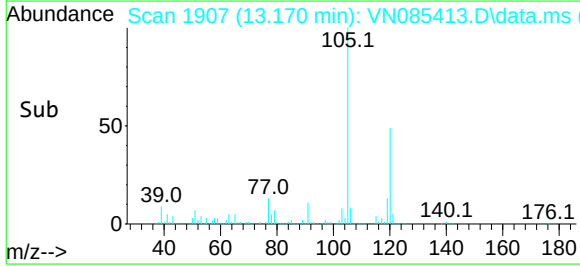
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-257952



Tgt Ion:105 Resp: 270800
Ion Ratio Lower Upper
105 100
120 49.6 24.0 72.0

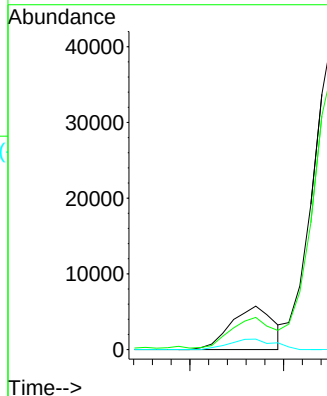
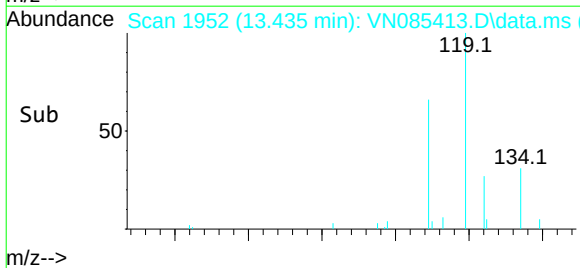
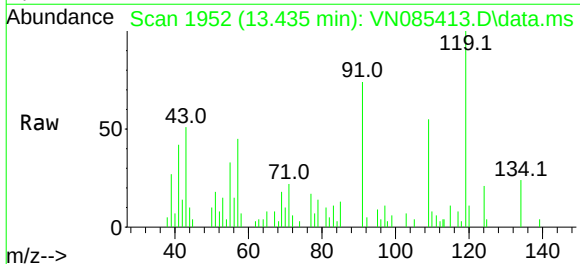
Manual Integrations
APPROVED

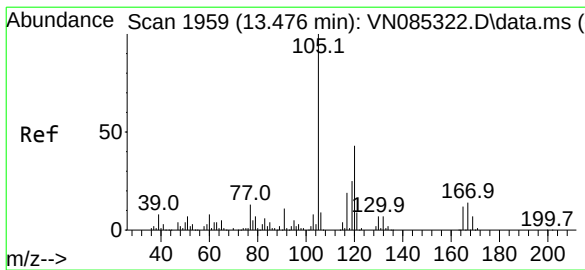
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



#83
tert-Butylbenzene
Concen: 1.021 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

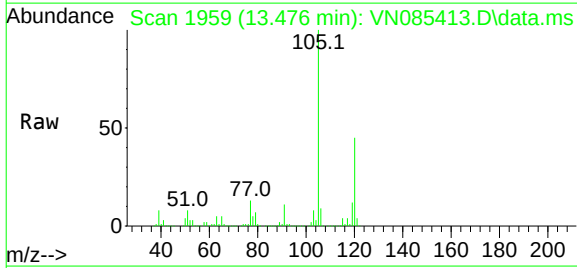
Tgt Ion:119 Resp: 9022
Ion Ratio Lower Upper
119 100
91 68.4 33.6 100.8
134 25.5 13.3 39.8





#84
1,2,4-Trimethylbenzene
Concen: 55.356 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

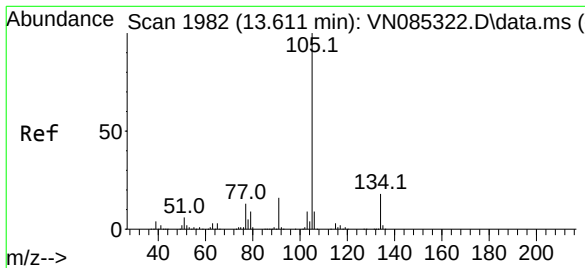
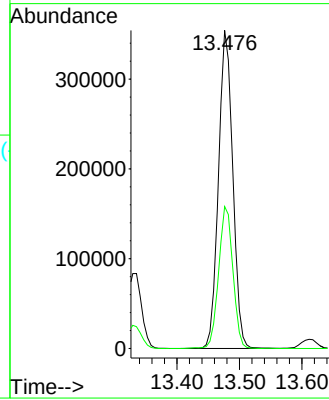
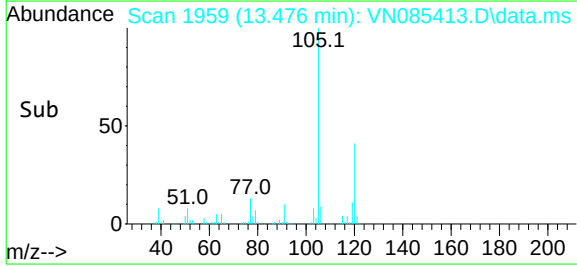
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-257952



Tgt Ion:105 Resp: 562375
Ion Ratio Lower Upper
105 100
120 44.5 21.7 65.1

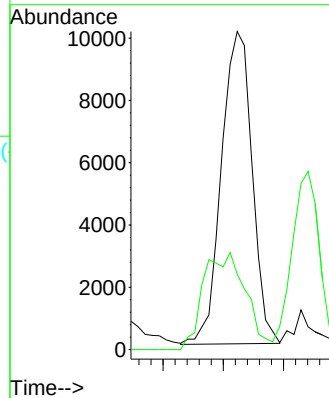
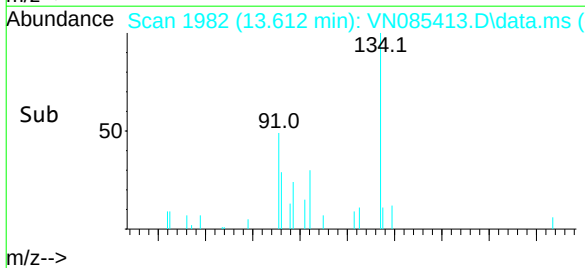
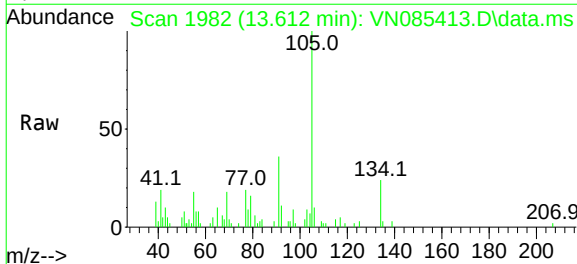
Manual Integrations
APPROVED

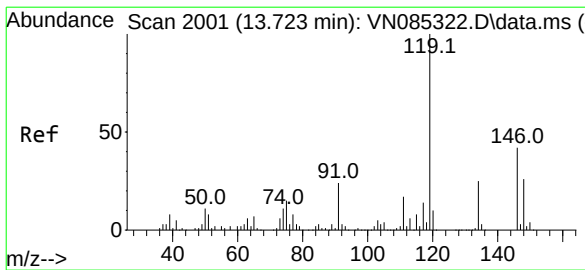
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



#85
sec-Butylbenzene
Concen: 1.447 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

Tgt Ion:105 Resp: 17754
Ion Ratio Lower Upper
105 100
134 42.8 9.4 28.3#





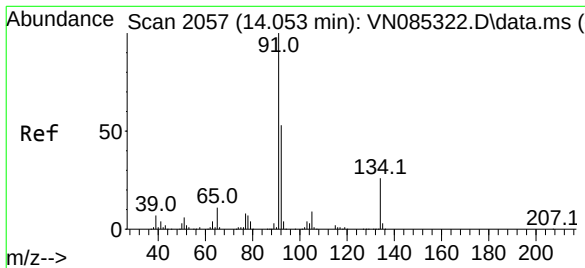
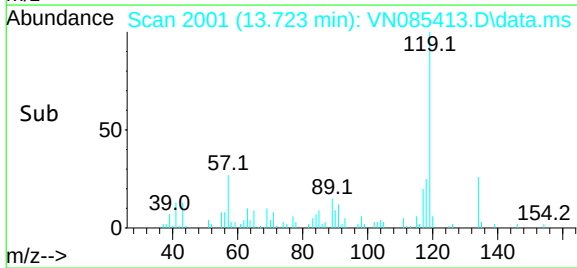
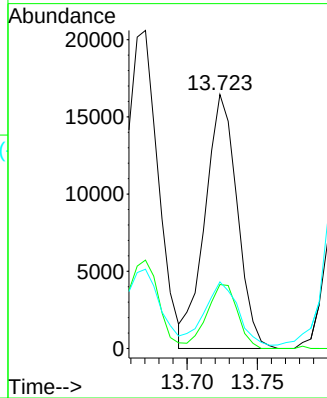
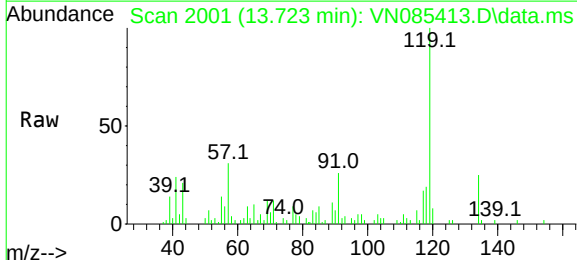
#86
p-Isopropyltoluene
Concen: 2.714 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-257952

Tgt Ion:	119	Resp:	26233
Ion Ratio	Lower	Upper	
119	100		
134	23.8	12.5	37.5
91	25.9	12.2	36.4

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



#89
n-Butylbenzene
Concen: 1.234 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085413.D
Acq: 09 Jan 2025 16:50

Tgt Ion:	91	Resp:	11082
Ion Ratio	Lower	Upper	
91	100		
92	51.1	26.0	78.0
134	0.0	12.1	36.3#

