

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
 Data File : VL043085.D
 Acq On : 09 Oct 2025 13:18
 Operator : SY/MD
 Sample : Q3320-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

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

Quant Time: Oct 09 22:14:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

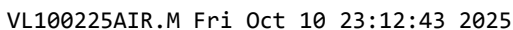
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

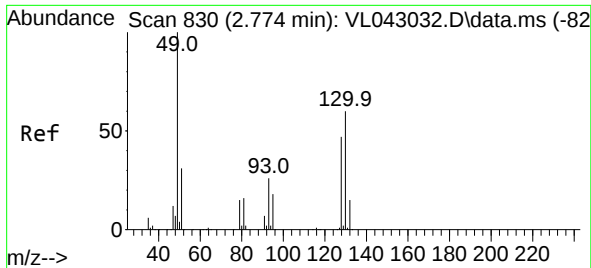
Internal Standards						
1) Bromochloromethane	2.780	49	200129	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	528770	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	446168	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	339557	10.565	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.600%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.495	85	13995	0.415	ppbv	98
3) Chlorodifluoromethane	1.473	51	9621m	0.295	ppbv	
4) Chloromethane	1.531	50	5235	0.425	ppbv	93
9) Propene	1.486	41	8018	0.609	ppbv #	80
11) Trichlorofluoromethane	1.874	101	7179	0.207	ppbv	88
13) Ethanol	1.716	45	77612	161.519	ppbv	88
15) Acetone	1.832	43	87022	3.106	ppbv	100
19) Isopropyl Alcohol	1.881	45	9896	0.737	ppbv #	1
20) Methylene Chloride	2.055	84	8920	0.729	ppbv	88
26) Hexane	2.819	57	8808	0.326	ppbv #	44
29) Chloroform	2.842	83	6591	0.143	ppbv	99
34) 2-Butanone	2.554	43	7944	0.221	ppbv	96
35) Carbon Tetrachloride	3.751	117	3099m	0.071	ppbv	
38) Trichloroethene	4.538	130	1003m	0.048	ppbv	
79) Naphthalene	13.507	128	1082m	0.254	ppbv	

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

Manual Integrations

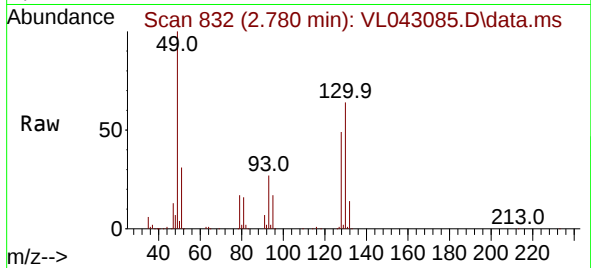
Quant Time: Oct 09 22:14:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 812
Delta R.T. 0.006 min
Lab File: VL043085.D
Acq: 09 Oct 2025 13:18

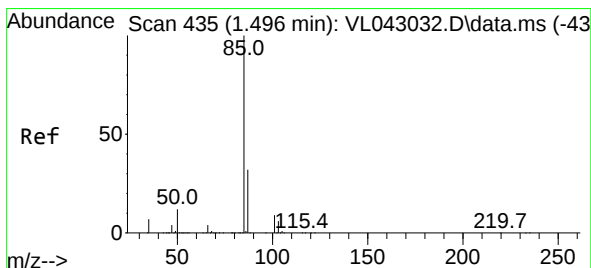
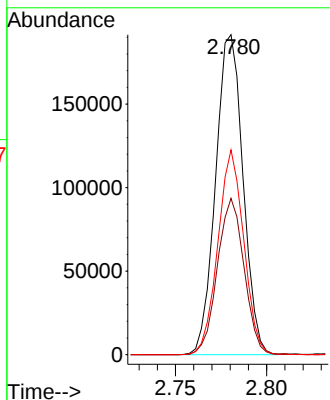
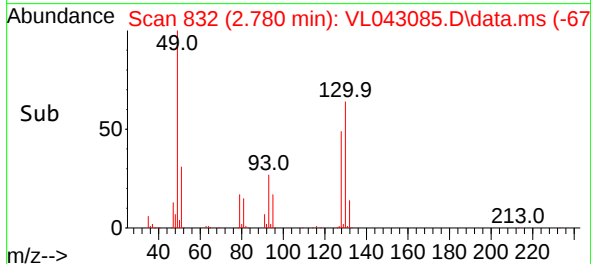
Instrument :
MSVOA_L
ClientSampleId :
IA2



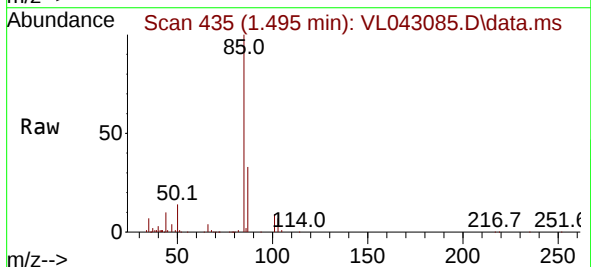
Tgt Ion: 49 Resp: 200129
Ion Ratio Lower Upper
49 100
128 47.6 24.1 72.2
130 60.4 31.4 94.3

Manual Integrations
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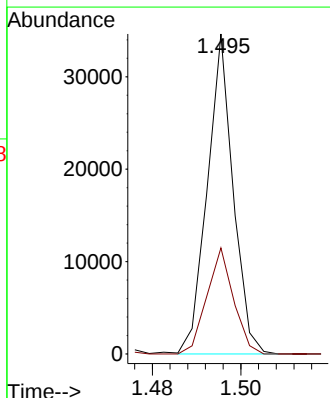
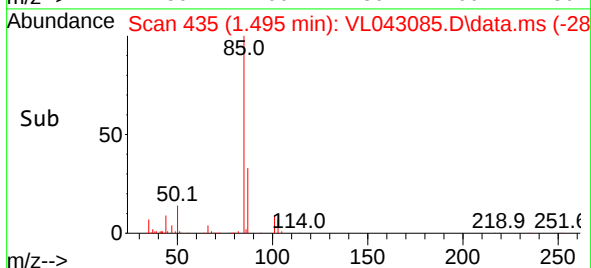
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

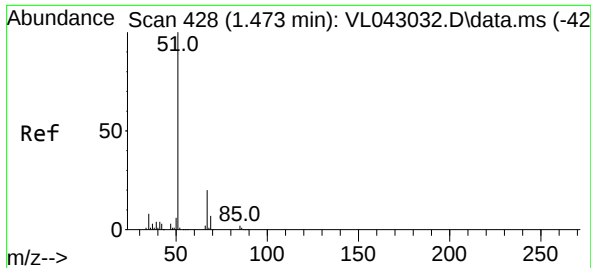


#2
Dichlorodifluoromethane
Concen: 0.415 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043085.D
Acq: 09 Oct 2025 13:18



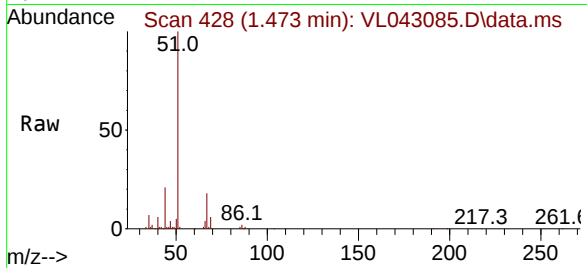
Tgt Ion: 85 Resp: 13995
Ion Ratio Lower Upper
85 100
87 33.1 25.8 38.6





#3
Chlorodifluoromethane
Concen: 0.295 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL043085.D
Acq: 09 Oct 2025 13:18

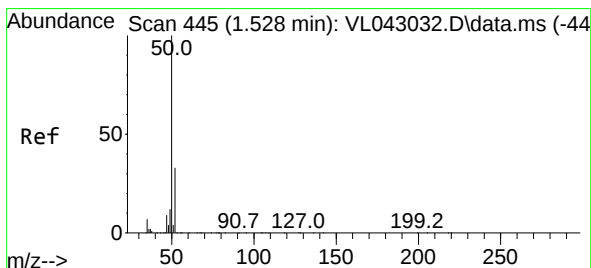
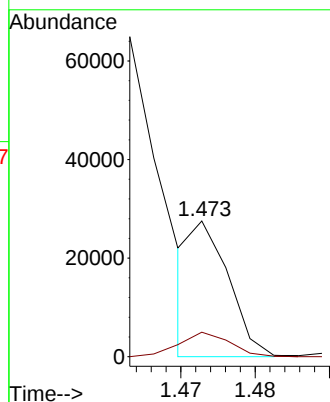
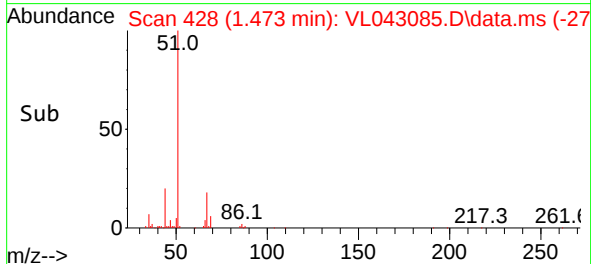
Instrument :
MSVOA_L
ClientSampleId :
IA2



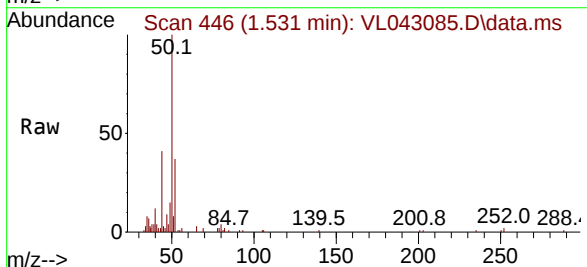
Tgt Ion: 51 Resp: 962
Ion Ratio Lower Upper
51 100
67 24.5 15.1 22.7

Manual Integrations
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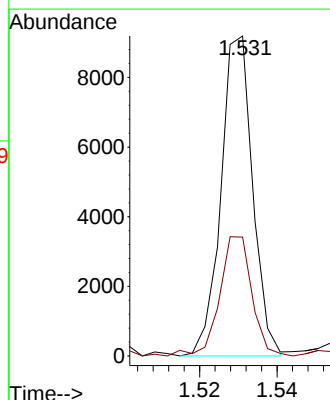
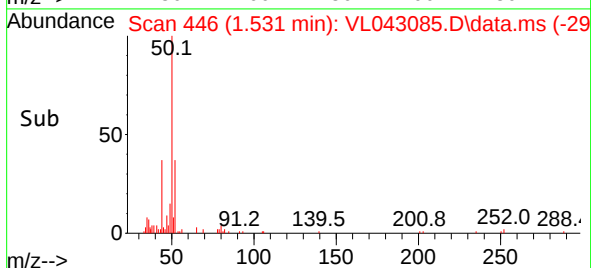
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

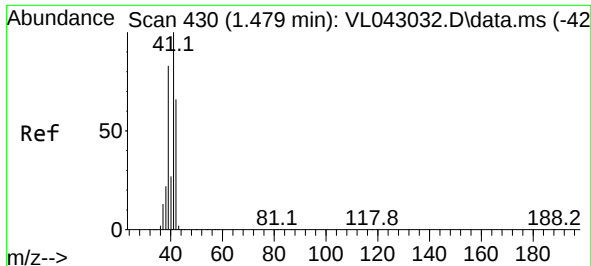


#4
Chloromethane
Concen: 0.425 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL043085.D
Acq: 09 Oct 2025 13:18



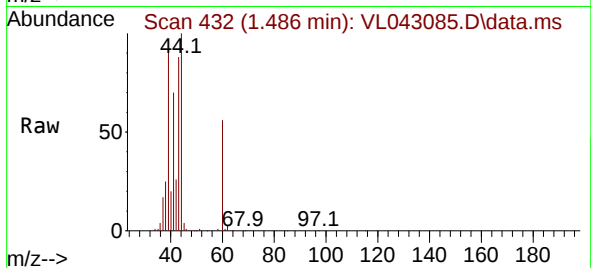
Tgt Ion: 50 Resp: 5235
Ion Ratio Lower Upper
50 100
52 36.8 26.2 39.2





#9
Propene
Concen: 0.609 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL043085.D
Acq: 09 Oct 2025 13:18

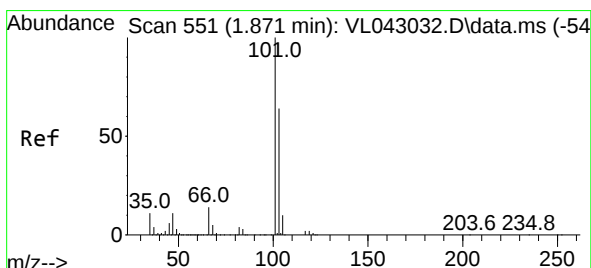
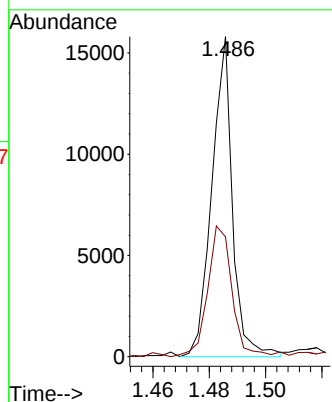
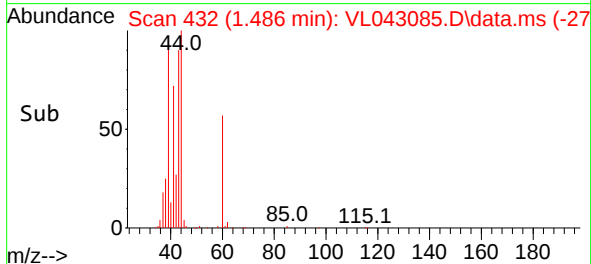
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 41 Resp: 8018
Ion Ratio Lower Upper
41 100
42 50.5 53.3 79.9

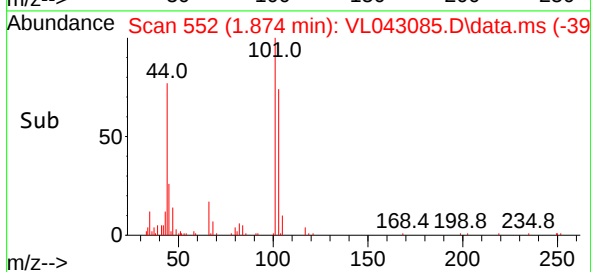
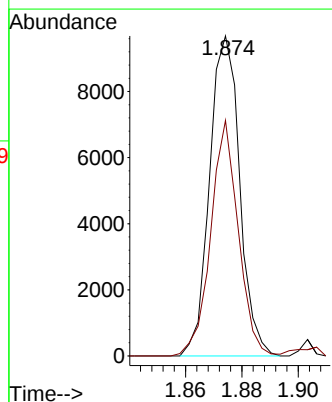
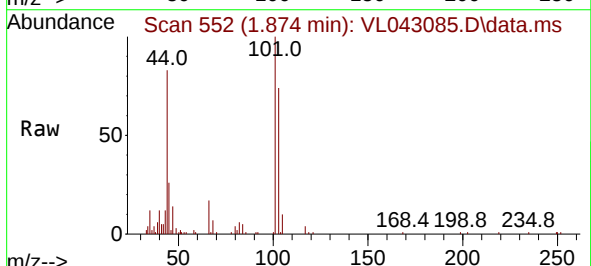
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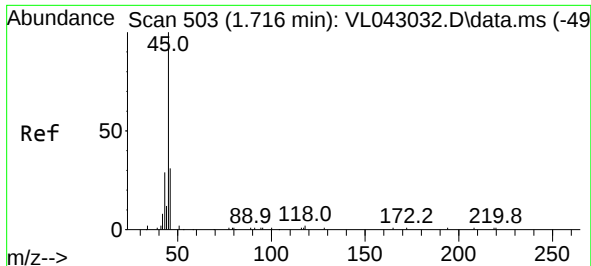
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#11
Trichlorofluoromethane
Concen: 0.207 ppbv
RT: 1.874 min Scan# 552
Delta R.T. 0.003 min
Lab File: VL043085.D
Acq: 09 Oct 2025 13:18

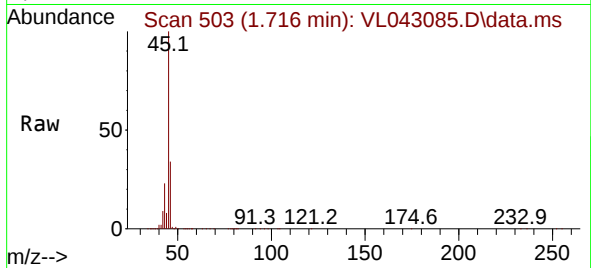
Tgt Ion:101 Resp: 7179
Ion Ratio Lower Upper
101 100
103 73.0 51.1 76.7





#13
Ethanol
Concen: 161.519 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.000 min
Lab File: VL043085.D
Acq: 09 Oct 2025 13:18

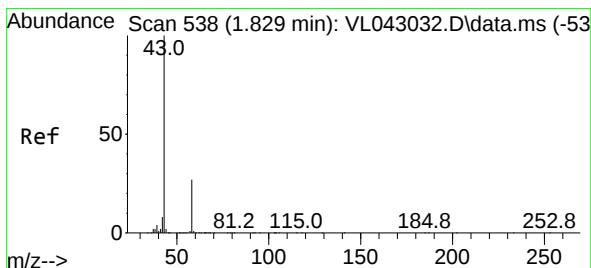
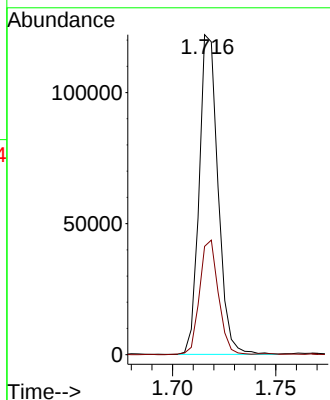
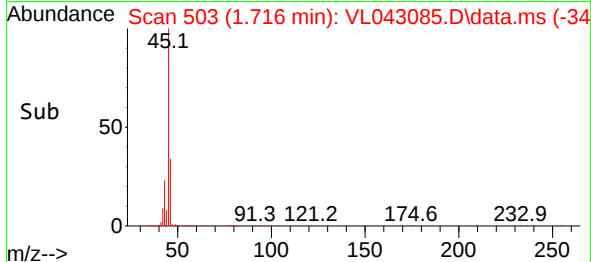
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 45 Resp: 77612
Ion Ratio Lower Upper
45 100
46 36.6 17.8 71.4

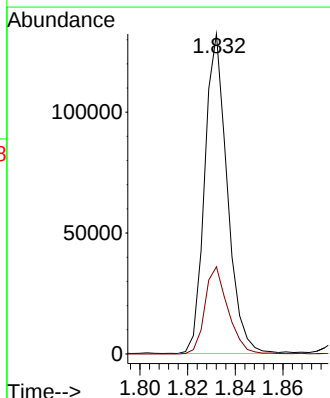
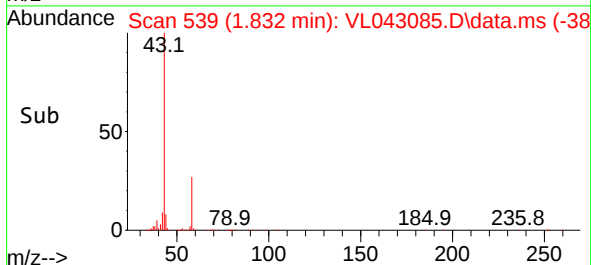
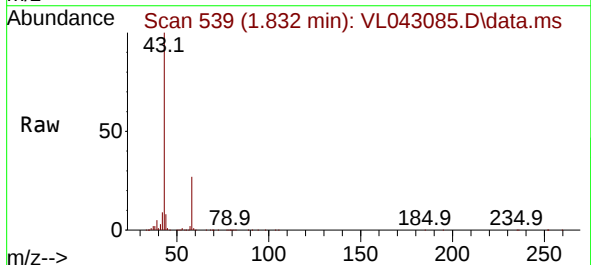
Manual Integrations
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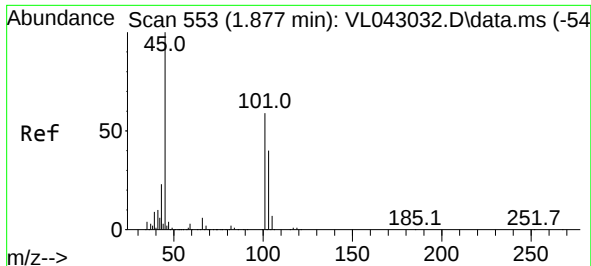
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#15
Acetone
Concen: 3.106 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.003 min
Lab File: VL043085.D
Acq: 09 Oct 2025 13:18

Tgt Ion: 43 Resp: 87022
Ion Ratio Lower Upper
43 100
58 28.0 22.2 33.4





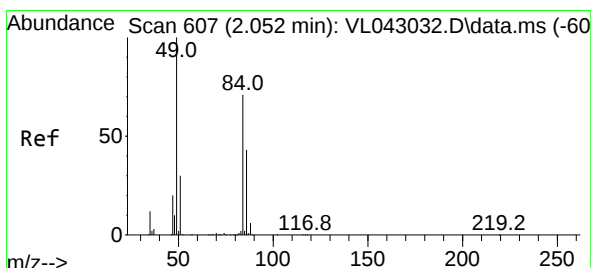
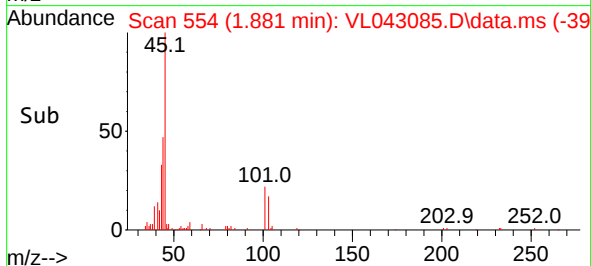
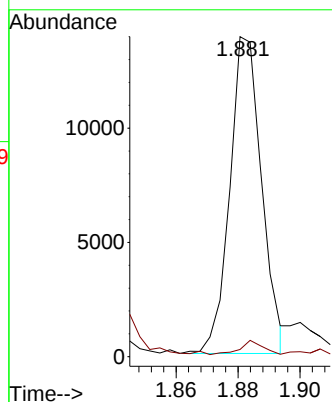
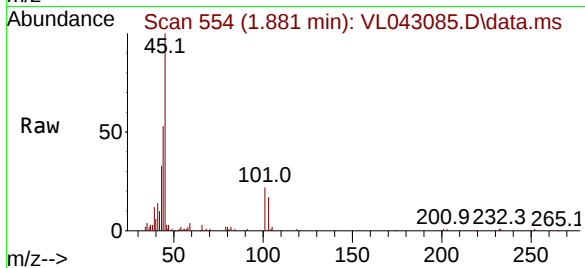
#19
Isopropyl Alcohol
Concen: 0.737 ppbv
RT: 1.881 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043085.D
Acq: 09 Oct 2025 13:18

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 45 Resp: 9890
Ion Ratio Lower Upper
45 100
58 247.6 42.3 63.5

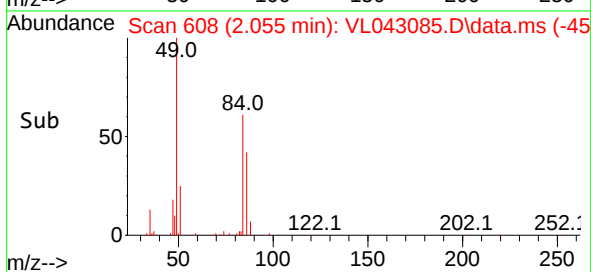
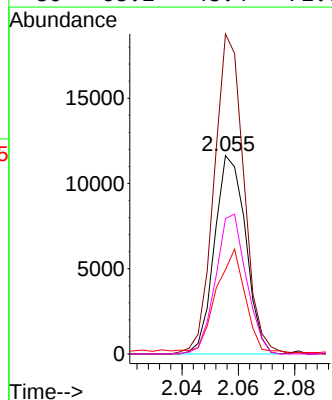
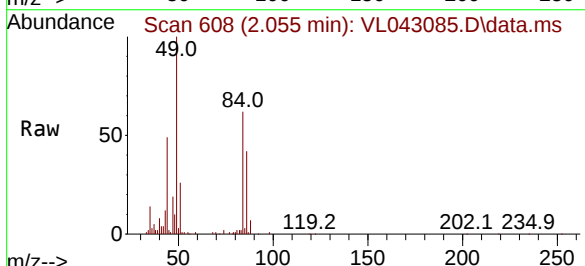
Manual Integrations
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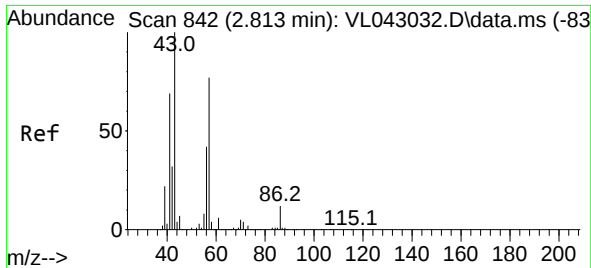
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#20
Methylene Chloride
Concen: 0.729 ppbv
RT: 2.055 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL043085.D
Acq: 09 Oct 2025 13:18

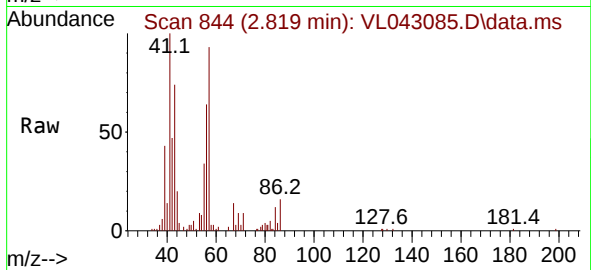
Tgt Ion: 84 Resp: 8920
Ion Ratio Lower Upper
84 100
49 160.2 112.5 168.7
51 40.9 34.2 51.2
86 68.2 48.4 72.6





#26
Hexane
Concen: 0.326 ppbv
RT: 2.819 min Scan# 842
Delta R.T. 0.006 min
Lab File: VL043085.D
Acq: 09 Oct 2025 13:18

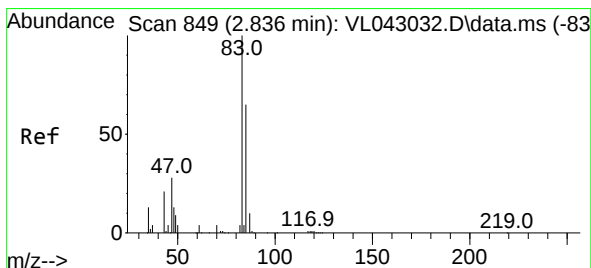
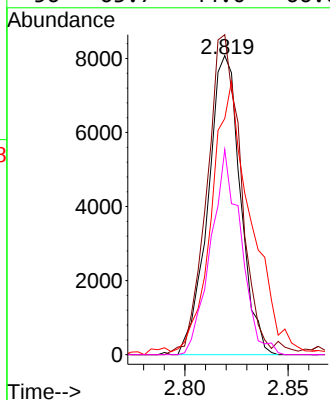
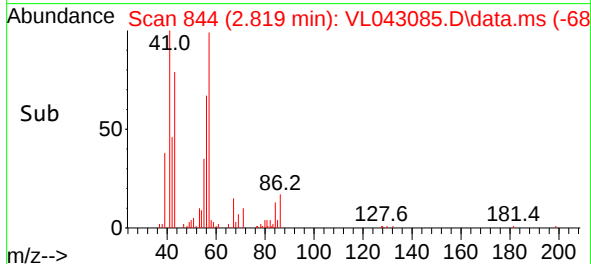
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 57 Resp: 8800
Ion Ratio Lower Upper
57 100
41 114.7 76.1 114.1
43 113.0 201.4 302.0
56 63.7 44.0 66.0

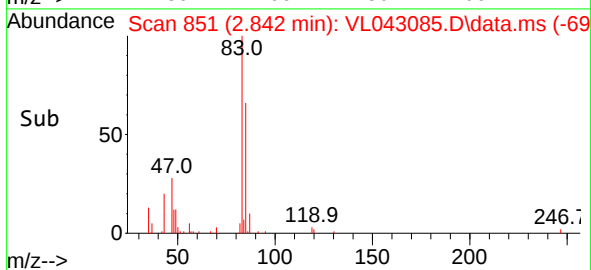
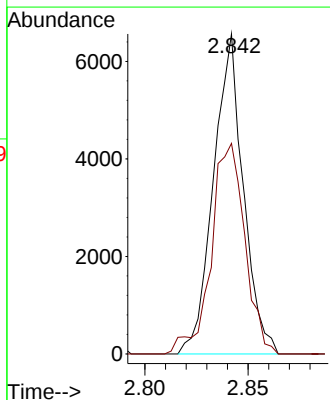
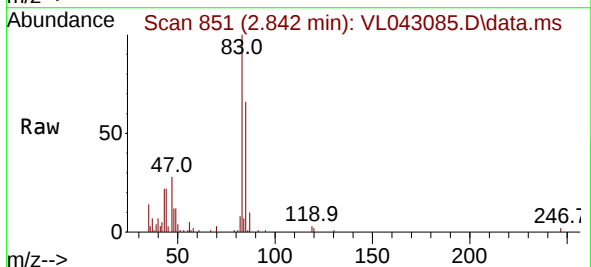
Manual Integrations
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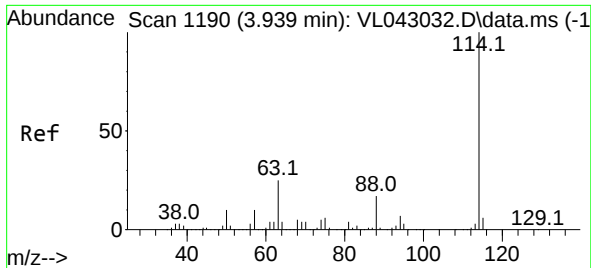
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#29
Chloroform
Concen: 0.143 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.006 min
Lab File: VL043085.D
Acq: 09 Oct 2025 13:18

Tgt Ion: 83 Resp: 6591
Ion Ratio Lower Upper
83 100
85 65.8 52.0 78.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.946 min Scan# 1190

Delta R.T. 0.006 min

Lab File: VL043085.D

Acq: 09 Oct 2025 13:18

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion:114 Resp: 528770

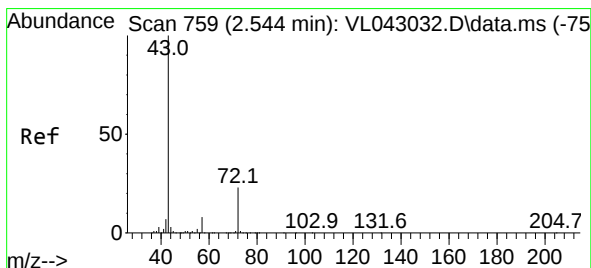
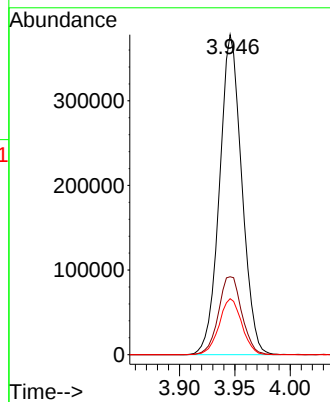
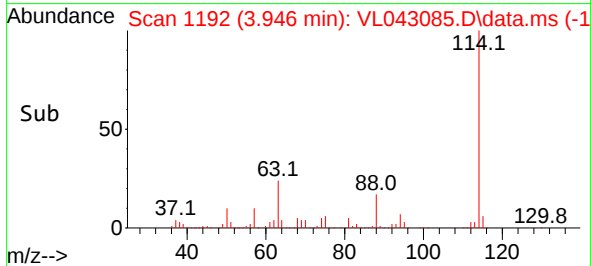
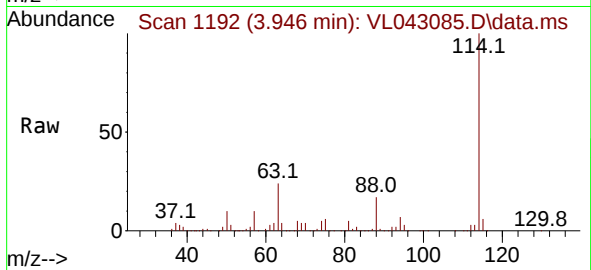
Ion	Ratio	Lower	Upper
114	100		
63	25.6	19.4	29.2
88	17.8	13.9	20.9

Manual Integrations

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Supervised By :Mahesh Dadoda 10/10/2025



#34

2-Butanone

Concen: 0.221 ppbv

RT: 2.554 min Scan# 762

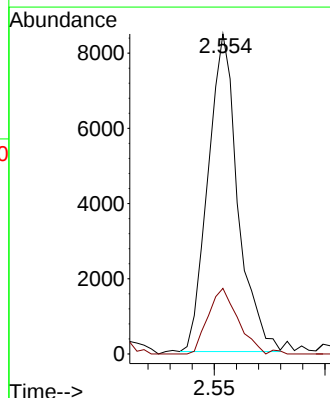
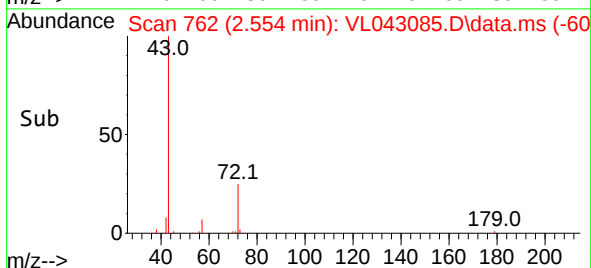
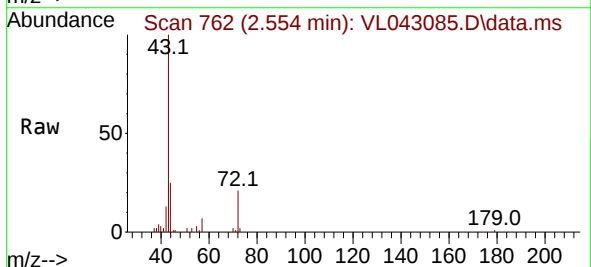
Delta R.T. 0.010 min

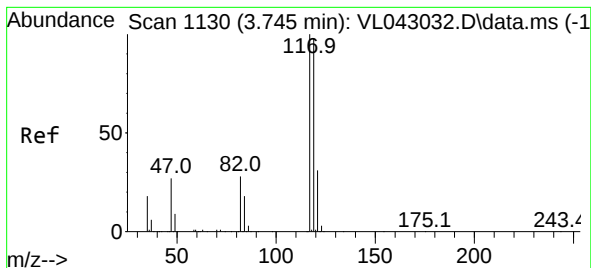
Lab File: VL043085.D

Acq: 09 Oct 2025 13:18

Tgt Ion: 43 Resp: 7944

Ion	Ratio	Lower	Upper
43	100		
72	21.0	18.4	27.6





#35

Carbon Tetrachloride

Concen: 0.071 ppbv m

RT: 3.751 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VL043085.D

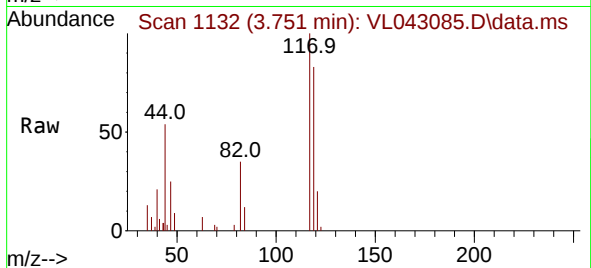
Acq: 09 Oct 2025 13:18

Instrument :

MSVOA_L

ClientSampleId :

IA2



Tgt Ion:117 Resp: 3099

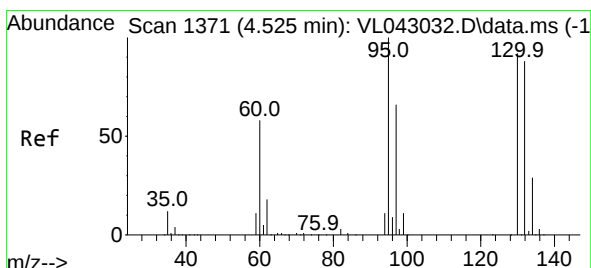
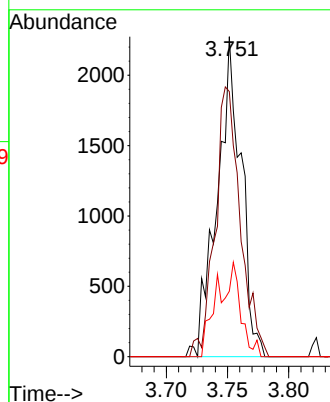
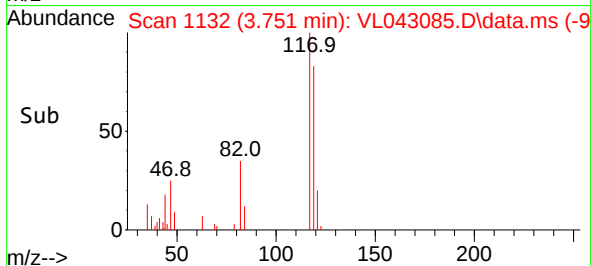
Ion	Ratio	Lower	Upper
117	100		
119	82.8	78.2	117.4
121	20.4	24.8	37.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/10/2025

Supervised By :Mahesh Dadoda 10/10/2025



#38

Trichloroethene

Concen: 0.048 ppbv m

RT: 4.538 min Scan# 1375

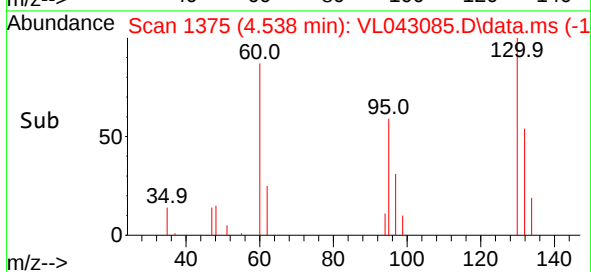
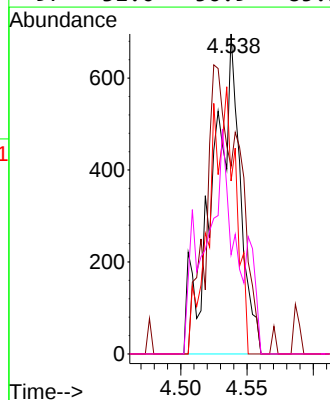
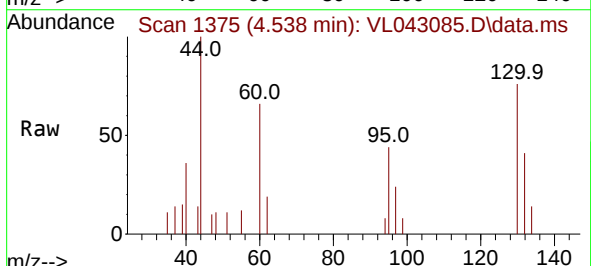
Delta R.T. 0.013 min

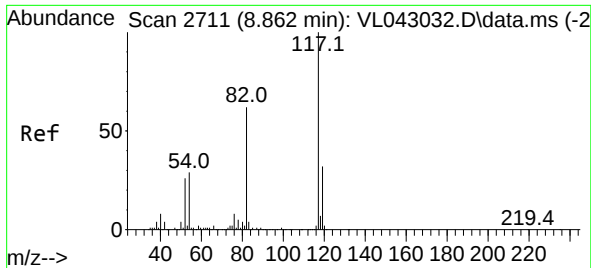
Lab File: VL043085.D

Acq: 09 Oct 2025 13:18

Tgt Ion:130 Resp: 1003

Ion	Ratio	Lower	Upper
130	100		
95	58.6	86.4	129.6#
132	54.0	75.7	113.5#
97	31.0	56.9	85.3#





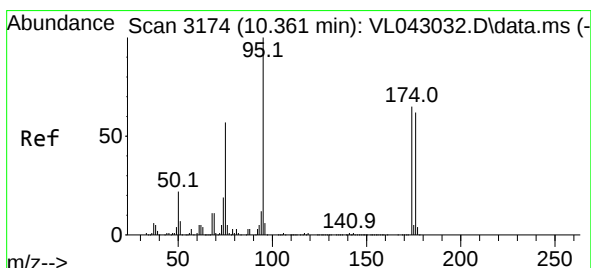
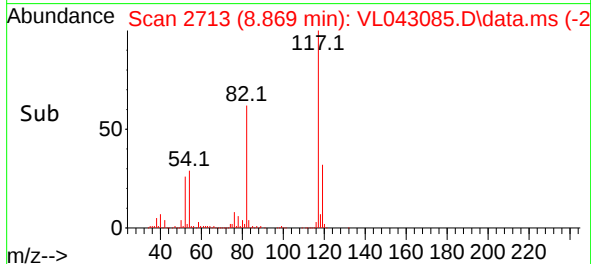
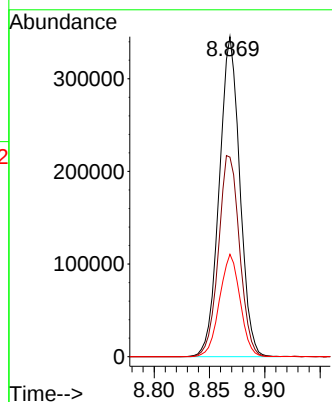
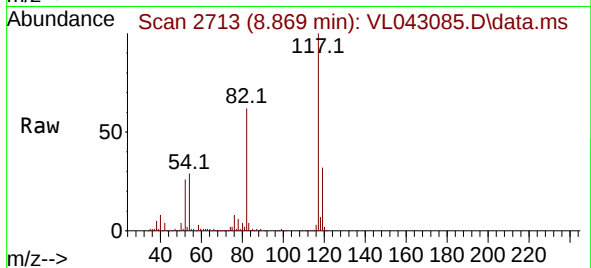
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2713
Delta R.T. 0.006 min
Lab File: VL043085.D
Acq: 09 Oct 2025 13:18

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 117 Resp: 446168
Ion Ratio Lower Upper
117 100
82 64.6 53.0 79.6
119 32.2 25.4 38.2

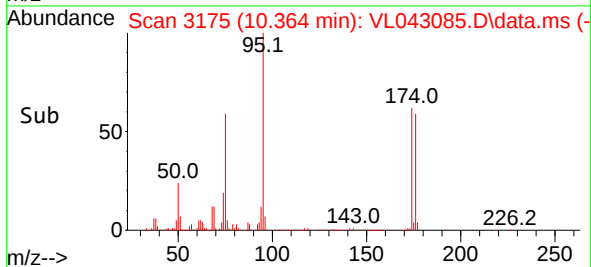
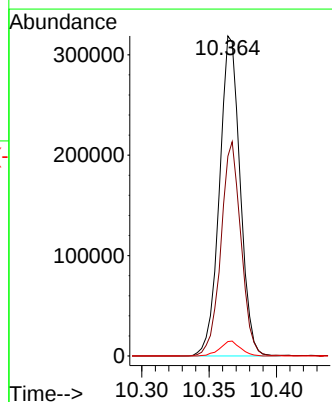
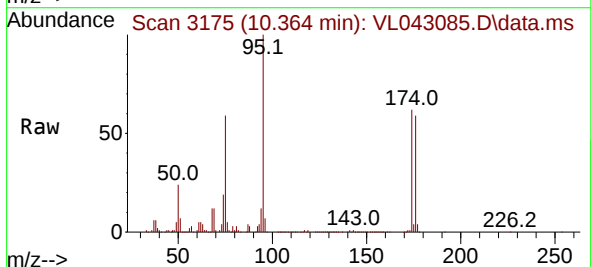
Manual Integrations
APPROVED

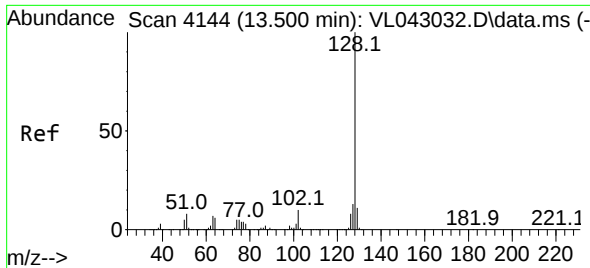
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.565 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. 0.003 min
Lab File: VL043085.D
Acq: 09 Oct 2025 13:18

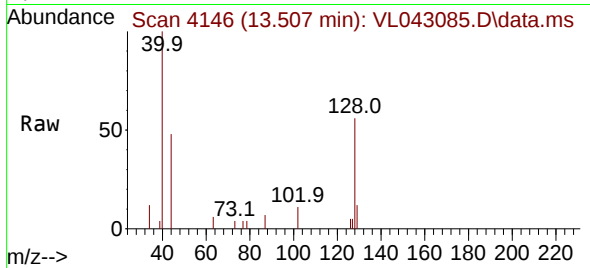
Tgt Ion: 95 Resp: 339557
Ion Ratio Lower Upper
95 100
174 65.4 52.3 78.5
175 4.7 3.8 5.8





#79
Naphthalene
Concen: 0.254 ppbv m
RT: 13.507 min Scan# 4144
Delta R.T. 0.007 min
Lab File: VL043085.D
Acq: 09 Oct 2025 13:18

Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion	Ratio	Lower	Upper
128	100		
127	9.1	10.6	16.0
129	22.3	8.8	13.2

Manual Integrations
APPROVED

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

