

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041901.D
 Acq On : 14 Jan 2025 20:40
 Operator : SY/MD
 Sample : Q1073-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Jan 15 03:26:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Bromochloromethane	2.790	49	138054	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	398730	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	344203	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	271467	10.013	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.100%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	8271	0.440	ppbv	97
4) Chloromethane	1.534	50	4102	0.580	ppbv	99
9) Propene	1.489	41	6720	0.828	ppbv #	82
10) Heptane	4.985	43	2940m	0.136	ppbv	
11) Trichlorofluoromethane	1.881	101	4357	0.223	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.143	101	1502	0.098	ppbv #	79
13) Ethanol	1.722	45	30323	51.014	ppbv	90
15) Acetone	1.839	43	74062	4.467	ppbv	97
19) Isopropyl Alcohol	1.887	45	25827	2.627	ppbv #	54
20) Methylene Chloride	2.062	84	2103	0.321	ppbv #	92
26) Hexane	2.829	57	5562	0.315	ppbv #	56
34) 2-Butanone	2.564	43	30106	1.187	ppbv	97
35) Carbon Tetrachloride	3.761	117	2161m	0.086	ppbv	
36) Benzene	3.661	78	7984	0.218	ppbv #	80
52) Tetrachloroethene	8.228	164	1170m	0.092	ppbv	
53) Toluene	6.940	91	26956	0.677	ppbv	97

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

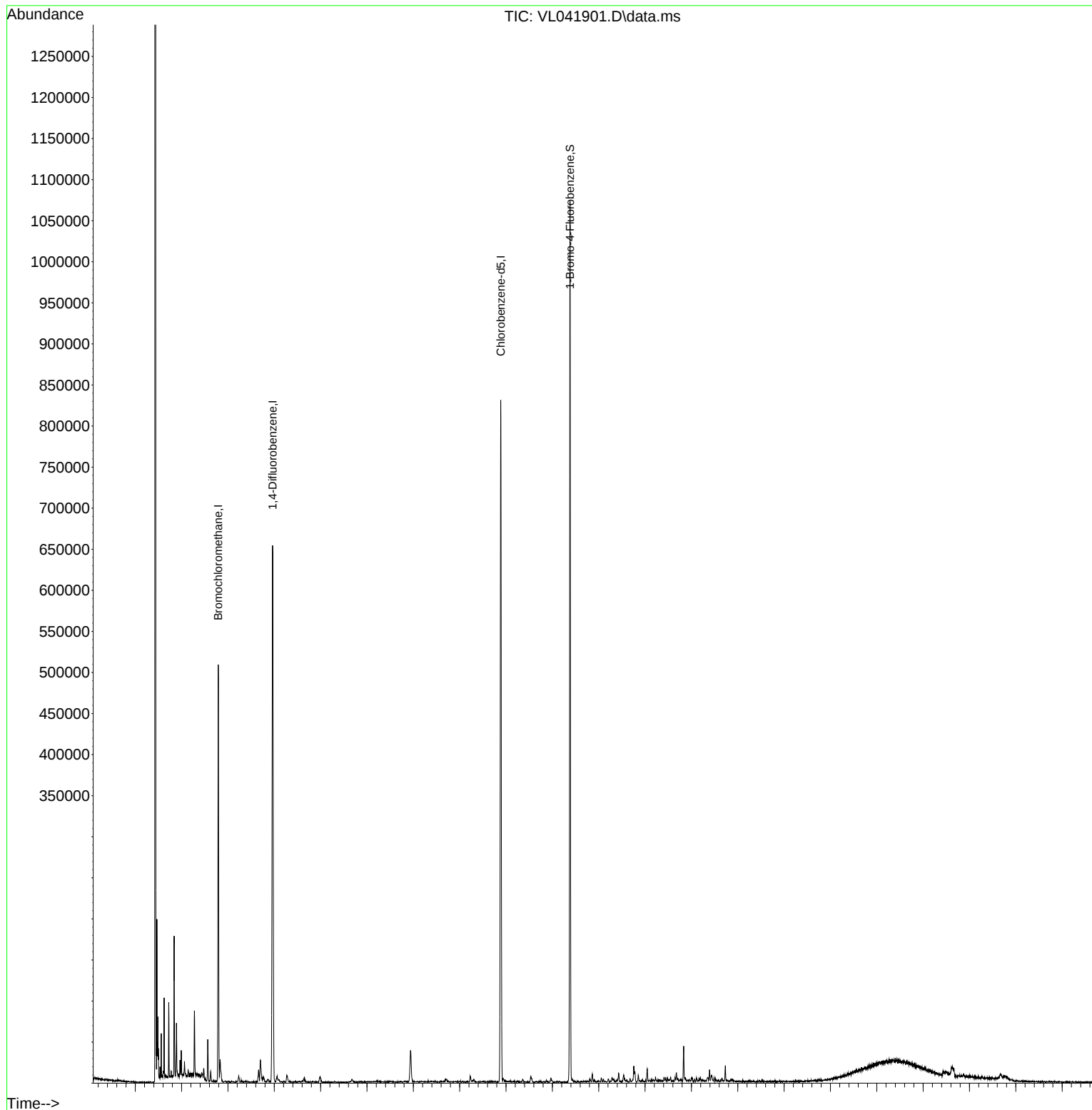
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041901.D
Acq On : 14 Jan 2025 20:40
Operator : SY/MD
Sample : Q1073-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

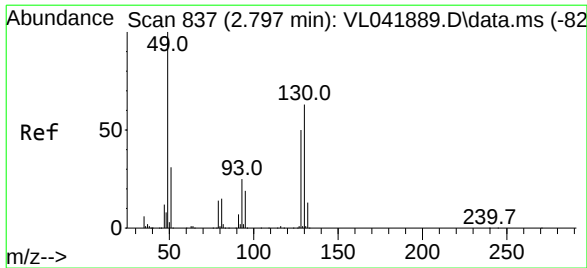
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Jan 15 03:26:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

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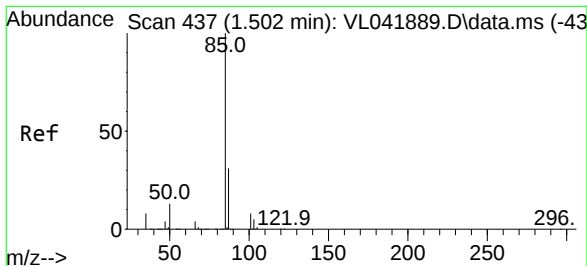
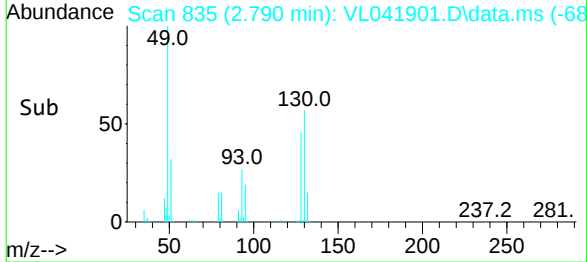
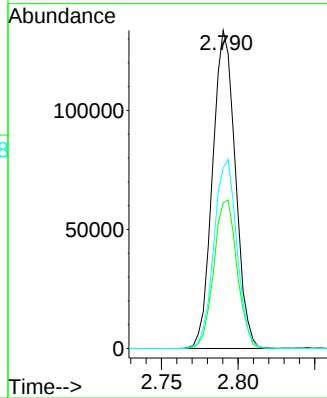
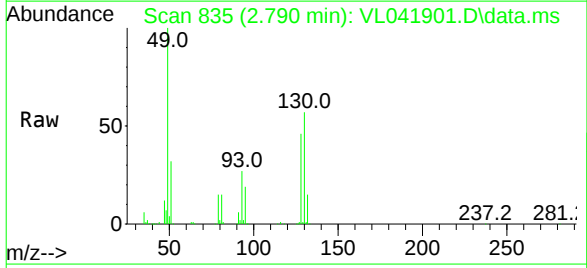
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 837
Delta R.T. -0.007 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 138054
Ion Ratio Lower Upper
49 100
128 47.7 24.3 73.0
130 59.8 31.1 93.2

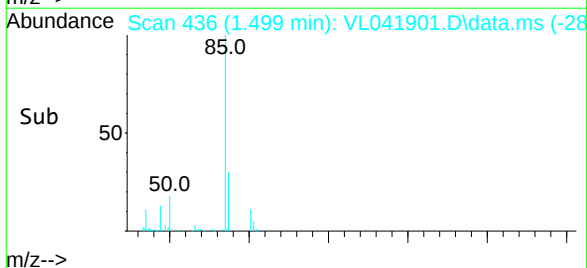
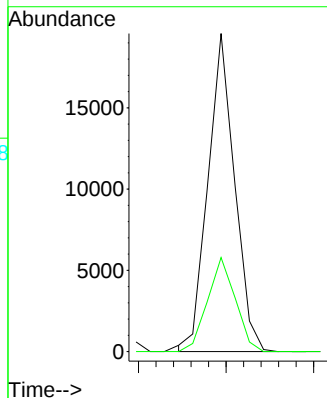
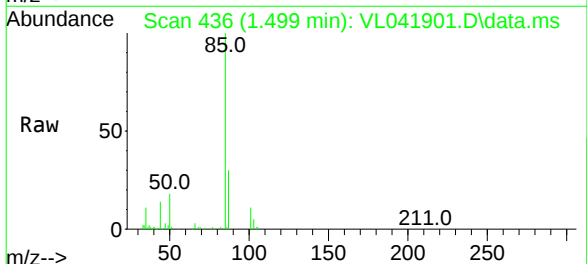
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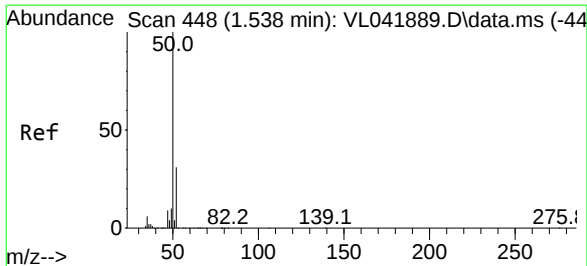
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#2
Dichlorodifluoromethane
Concen: 0.440 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.003 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

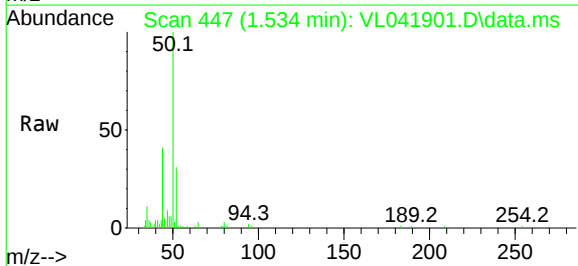
Tgt Ion: 85 Resp: 8271
Ion Ratio Lower Upper
85 100
87 29.6 24.9 37.3





#4
Chloromethane
Concen: 0.580 ppbv
RT: 1.534 min Scan# 44
Delta R.T. -0.003 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

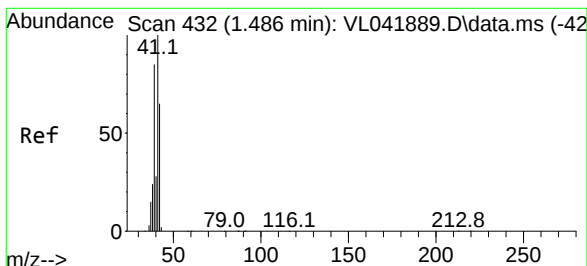
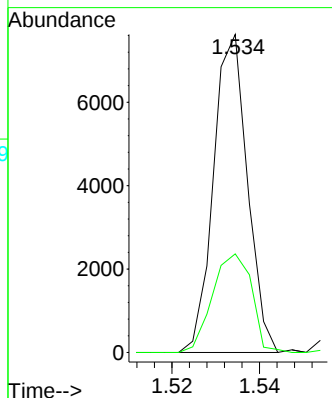
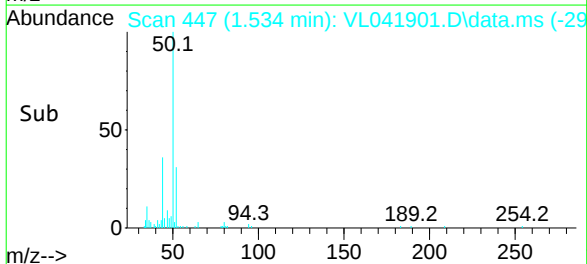
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 50 Resp: 4102
Ion Ratio Lower Upper
50 100
52 31.0 24.6 36.8

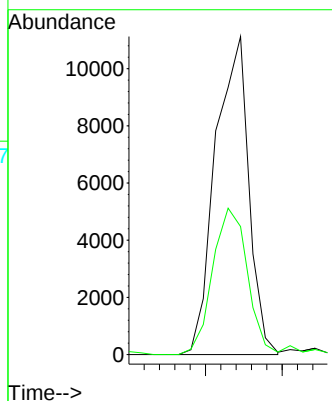
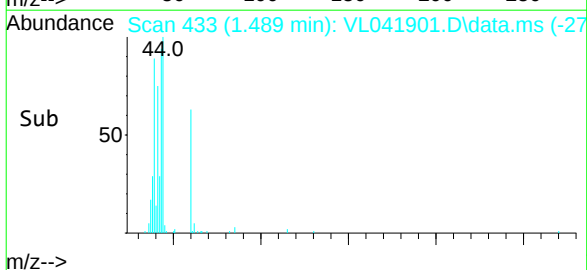
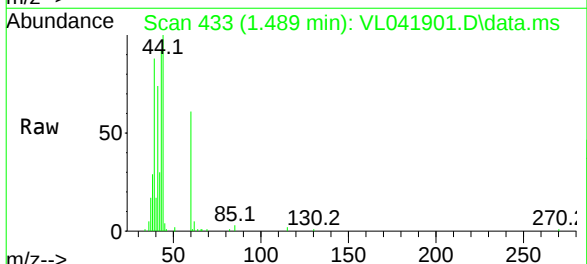
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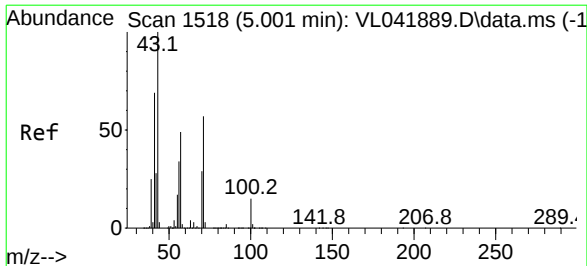
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#9
Propene
Concen: 0.828 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.003 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

Tgt Ion: 41 Resp: 6720
Ion Ratio Lower Upper
41 100
42 50.5 52.0 78.0#





#10

Heptane

Concen: 0.136 ppbv m

RT: 4.985 min Scan# 1518

Delta R.T. -0.016 min

Lab File: VL041901.D

Acq: 14 Jan 2025 20:40

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 43 Resp: 2940

Ion Ratio Lower Upper

43 100

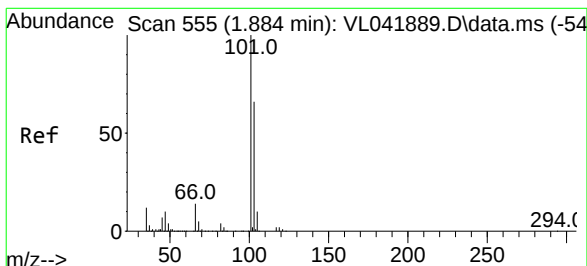
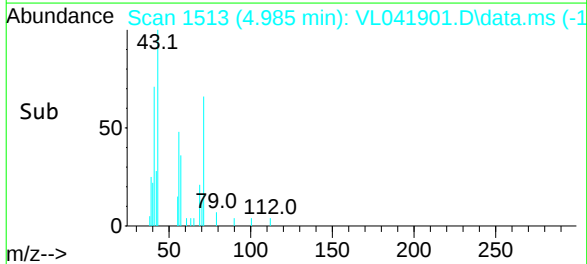
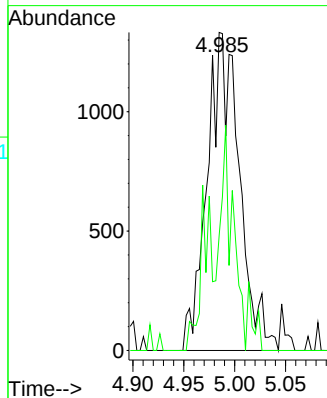
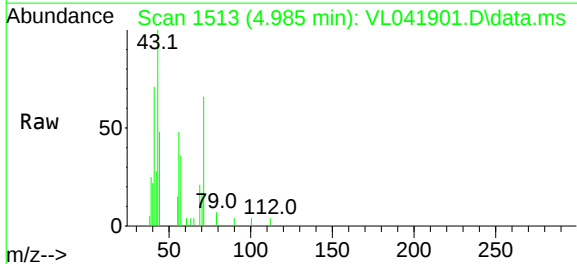
57 0.0 41.0 61.4#

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Supervised By :Mahesh Dadoda 01/15/2025



#11

Trichlorofluoromethane

Concen: 0.223 ppbv

RT: 1.881 min Scan# 554

Delta R.T. -0.003 min

Lab File: VL041901.D

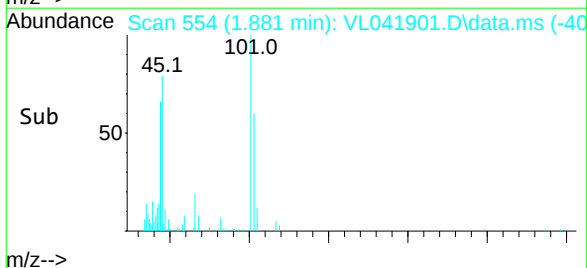
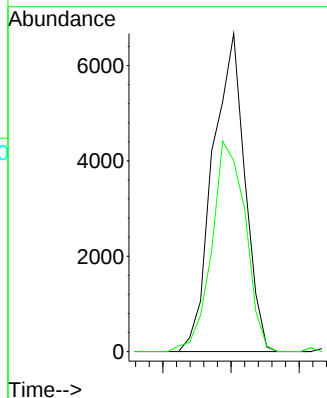
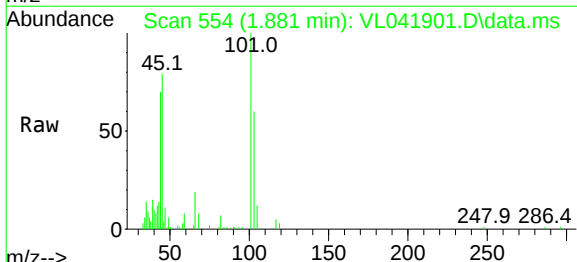
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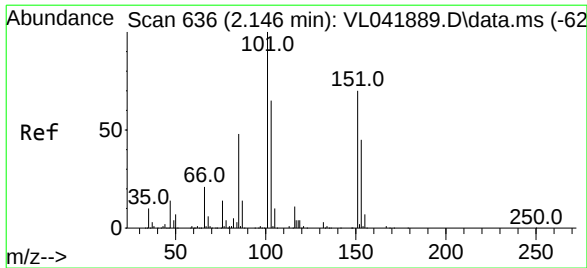
Tgt Ion:101 Resp: 4357

Ion Ratio Lower Upper

101 100

103 60.1 53.1 79.7





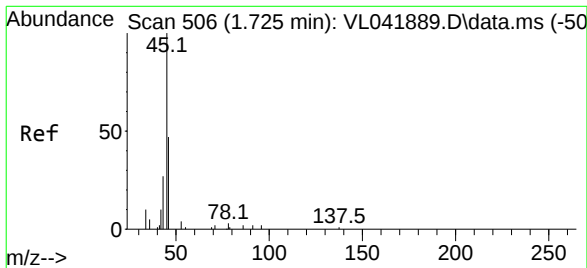
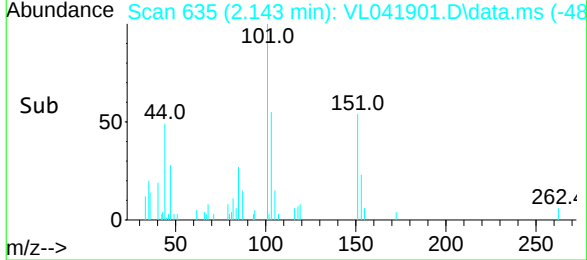
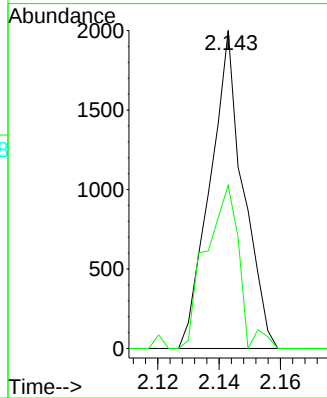
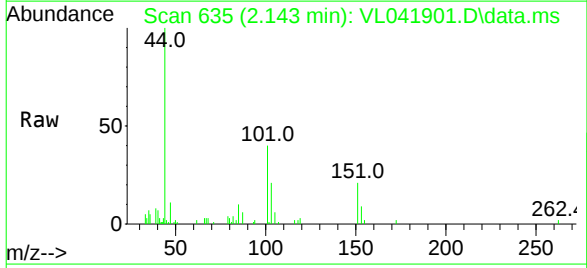
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.098 ppbv
RT: 2.143 min Scan# 63
Delta R.T. -0.003 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 101 Resp: 1502
Ion Ratio Lower Upper
101 100
151 52.9 56.1 84.1#

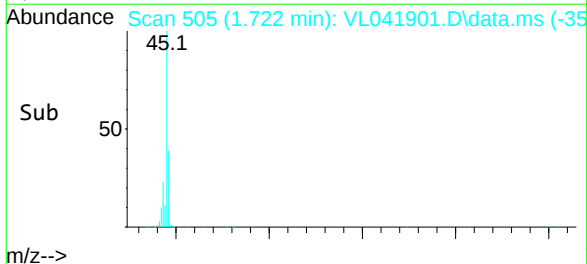
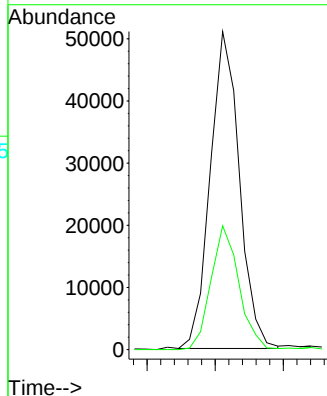
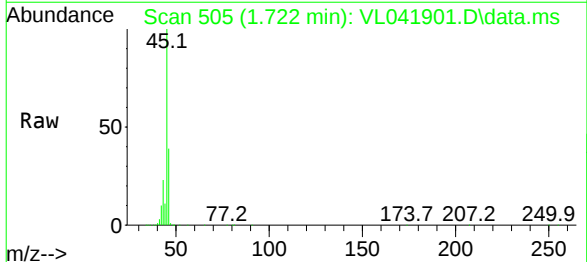
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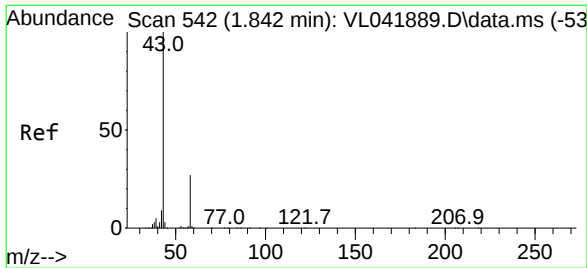
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#13
Ethanol
Concen: 51.014 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.003 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

Tgt Ion: 45 Resp: 30323
Ion Ratio Lower Upper
45 100
46 38.6 18.1 72.5





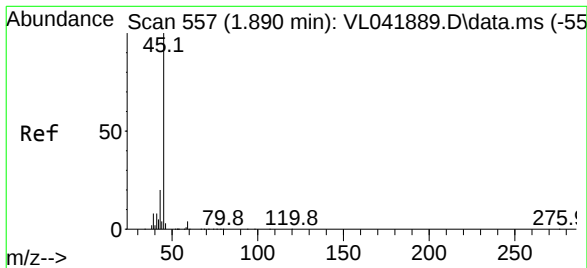
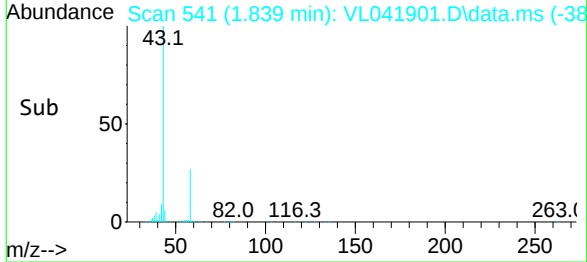
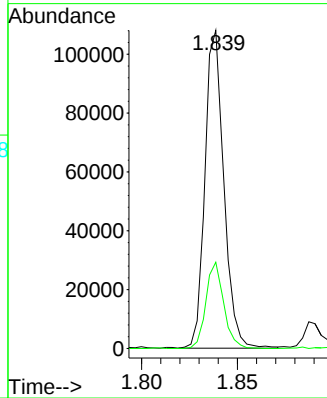
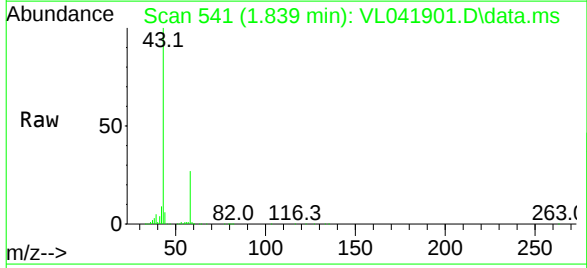
#15
Acetone
Concen: 4.467 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.003 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 74062
Ion Ratio Lower Upper
43 100
58 25.7 21.9 32.9

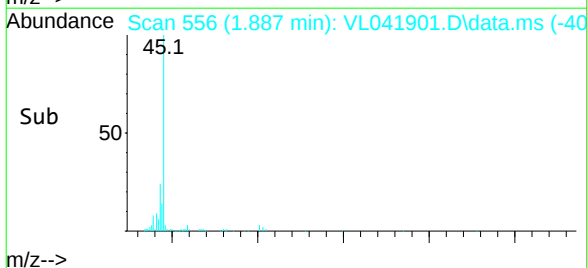
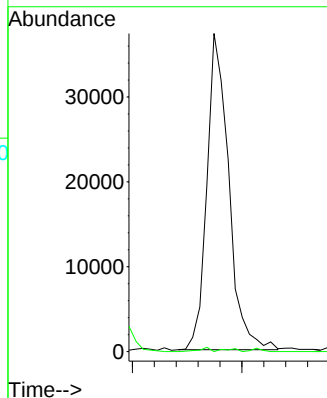
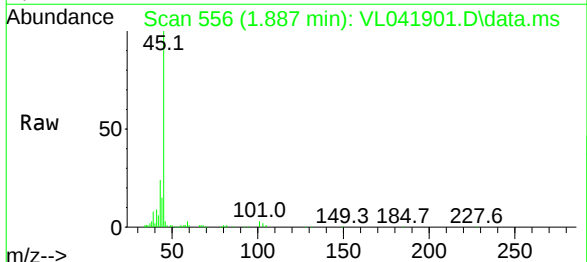
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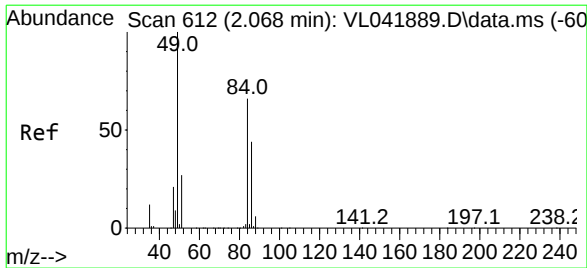
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#19
Isopropyl Alcohol
Concen: 2.627 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.003 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

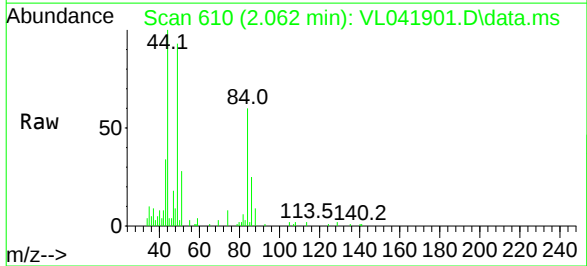
Tgt Ion: 45 Resp: 25827
Ion Ratio Lower Upper
45 100
58 73.6 35.0 52.6#





#20
Methylene Chloride
Concen: 0.321 ppbv
RT: 2.062 min Scan# 61
Delta R.T. -0.006 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

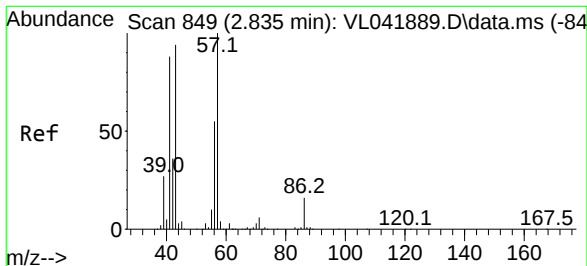
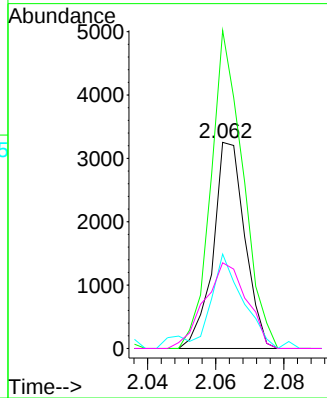
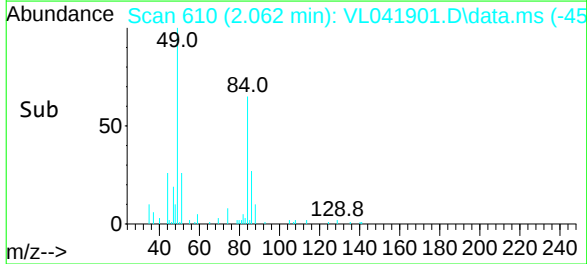
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion	Ratio	Lower	Upper
84	100		
49	154.3	123.1	184.7
51	45.8	35.8	53.8
86	41.6	53.7	80.5#

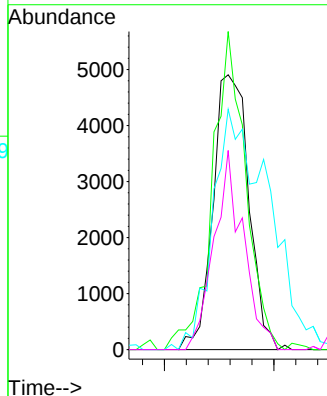
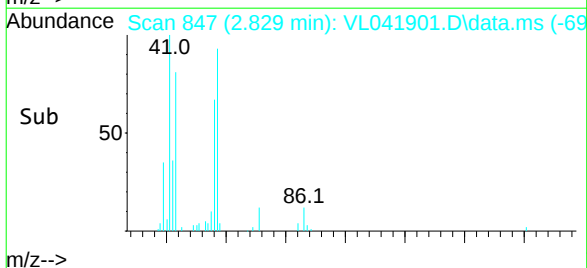
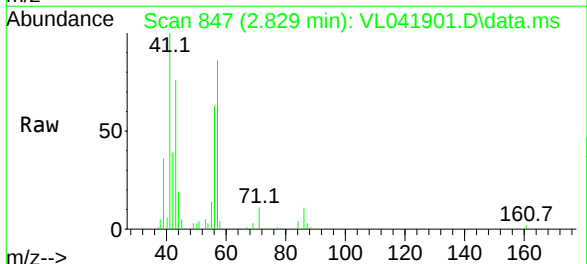
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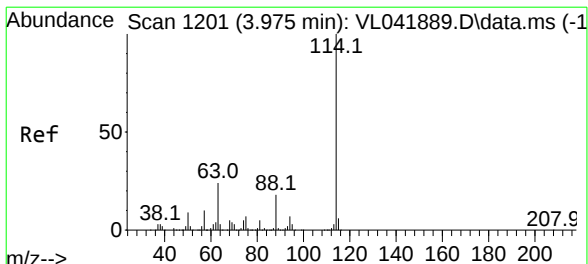
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#26
Hexane
Concen: 0.315 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.006 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

Tgt Ion	Ratio	Lower	Upper
57	100		
41	109.0	73.8	110.8
43	139.0	197.3	295.9#
56	59.2	42.7	64.1





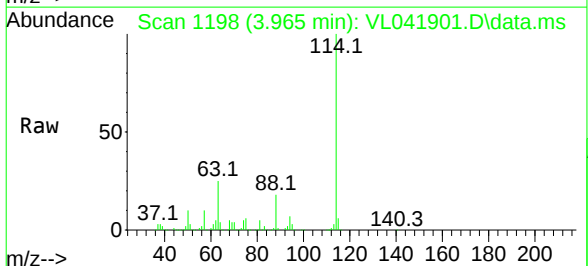
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 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 11
 Delta R.T. -0.010 min
 Lab File: VL041901.D
 Acq: 14 Jan 2025 20:40

Instrument :

MSVOA_L

ClientSampleId :

IA1

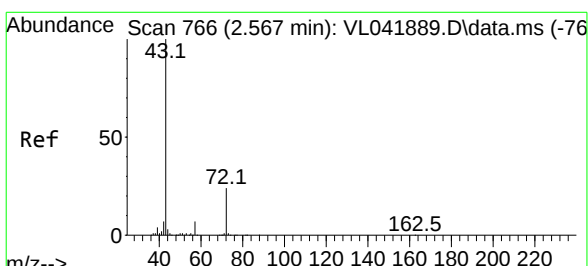
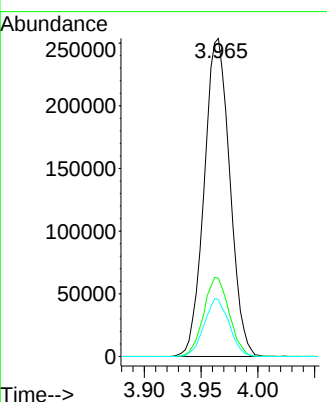
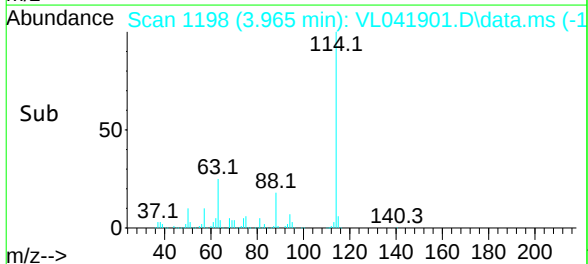


Tgt Ion: 114 Resp: 398730

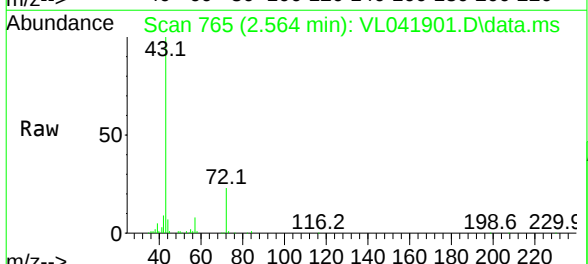
Ion	Ratio	Lower	Upper
114	100		
63	24.7	19.8	29.6
88	17.6	14.4	21.6

Manual Integrations
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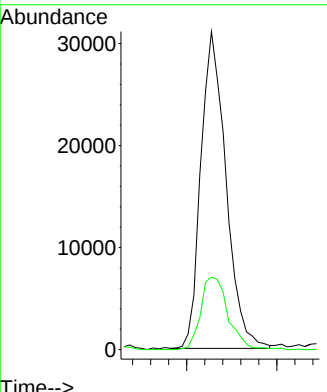
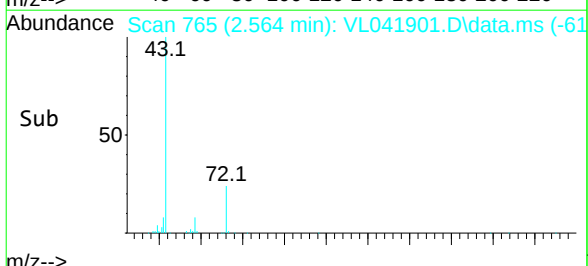


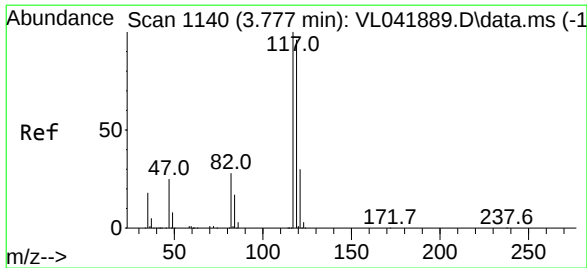
#34
 2-Butanone
 Concen: 1.187 ppbv
 RT: 2.564 min Scan# 765
 Delta R.T. -0.003 min
 Lab File: VL041901.D
 Acq: 14 Jan 2025 20:40



Tgt Ion: 43 Resp: 30106

Ion	Ratio	Lower	Upper
43	100		
72	25.0	18.6	28.0





#35

Carbon Tetrachloride

Concen: 0.086 ppbv m

RT: 3.761 min Scan# 11

Delta R.T. -0.016 min

Lab File: VL041901.D

Acq: 14 Jan 2025 20:40

Instrument :

MSVOA_L

ClientSampleId :

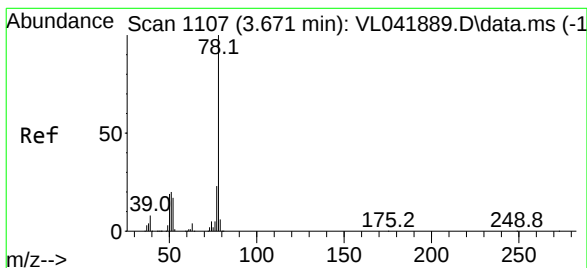
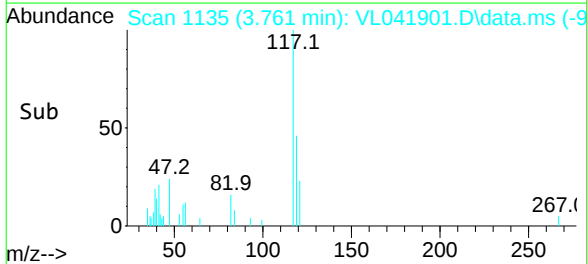
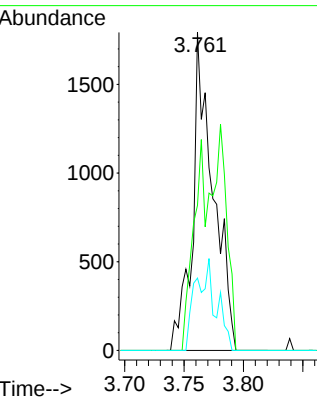
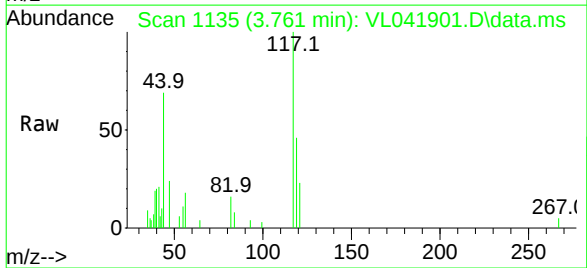
IA1

Tgt	Ion:117	Resp:	2161
Ion	Ratio	Lower	Upper
117	100		
119	45.6	76.9	115.3#
121	22.8	23.8	35.6#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#36

Benzene

Concen: 0.218 ppbv

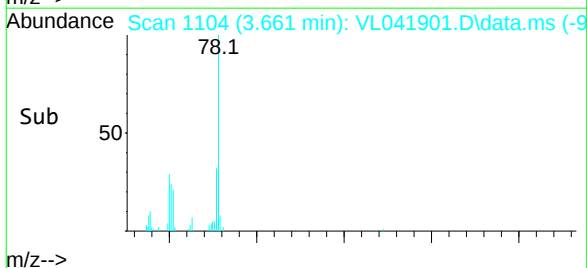
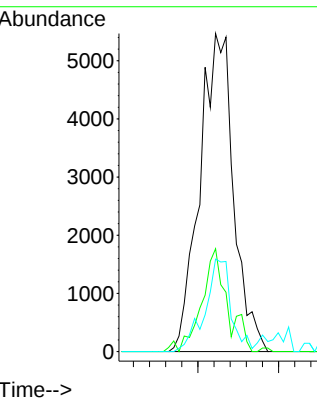
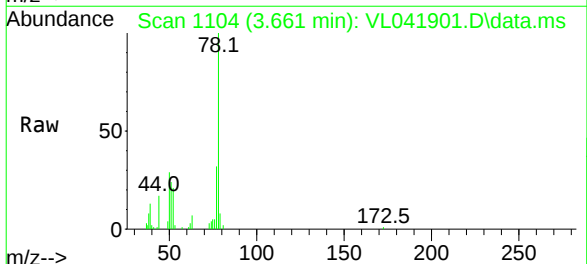
RT: 3.661 min Scan# 1104

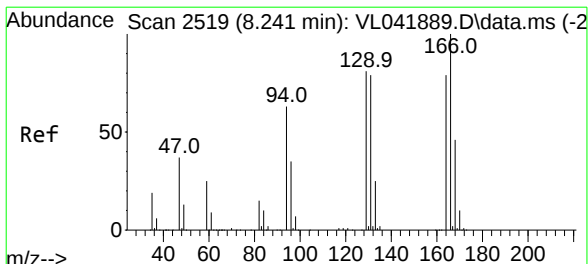
Delta R.T. -0.010 min

Lab File: VL041901.D

Acq: 14 Jan 2025 20:40

Tgt	Ion: 78	Resp:	7984
Ion	Ratio	Lower	Upper
78	100		
77	31.2	18.1	27.1#
50	29.1	15.2	22.8#

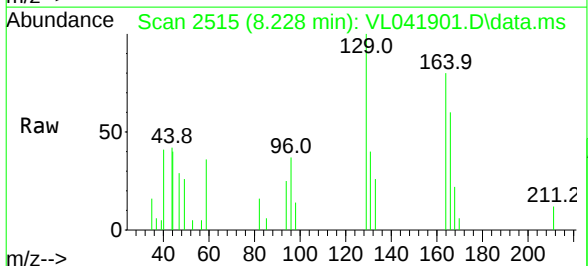




#52
Tetrachloroethene
Concen: 0.092 ppbv m
RT: 8.228 min Scan# 2515
Delta R.T. -0.013 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

Instrument :

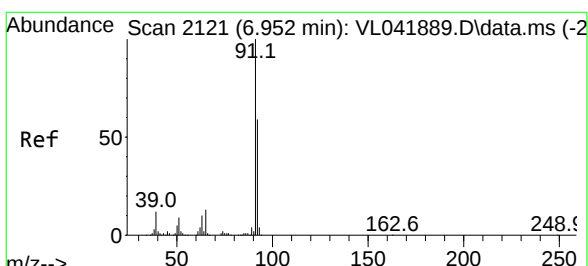
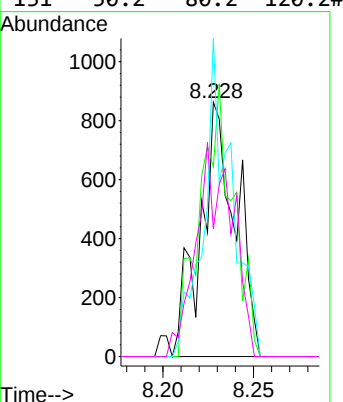
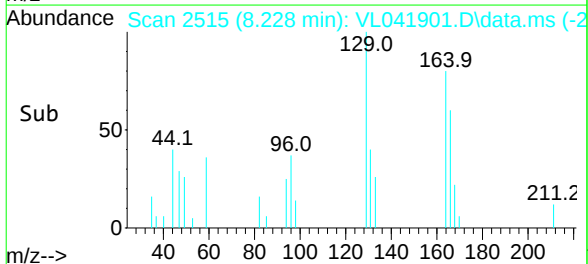
MSVOA_L
ClientSampleId :
IA1



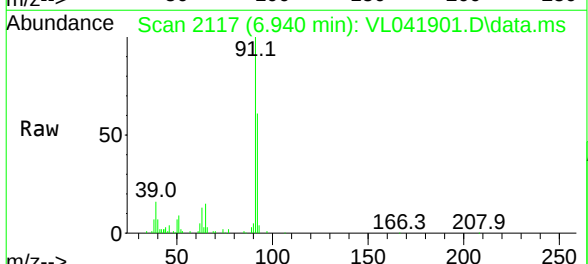
Tgt Ion	Ratio	Lower	Upper
164	100		
166	74.6	100.8	151.2#
129	125.0	82.0	123.0#
131	50.2	80.2	120.2#

Manual Integrations
APPROVED

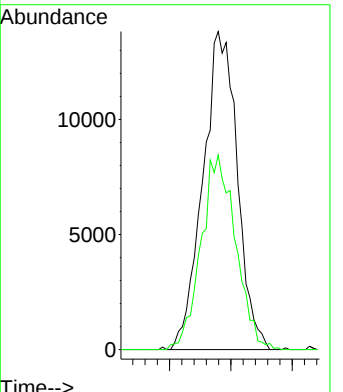
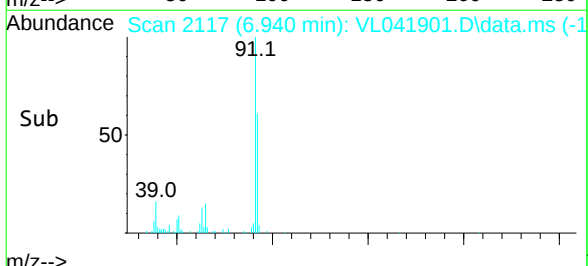
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

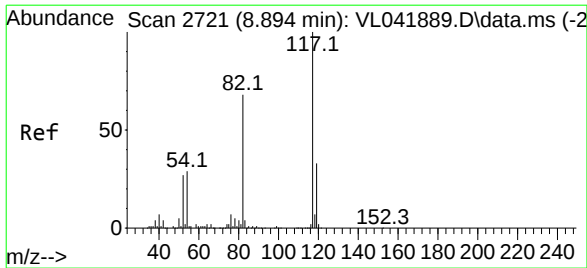


#53
Toluene
Concen: 0.677 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. -0.013 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40



Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.4	47.4	71.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 27

Delta R.T. -0.010 min

Lab File: VL041901.D

Acq: 14 Jan 2025 20:40

Instrument :

MSVOA_L

ClientSampleId :

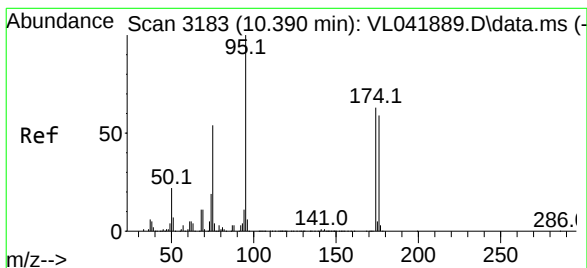
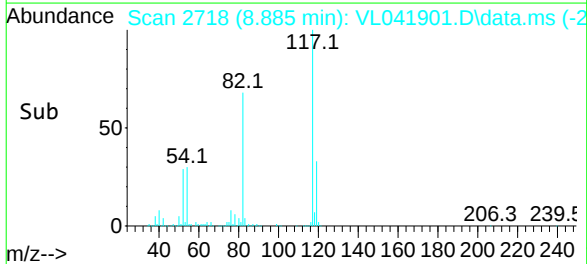
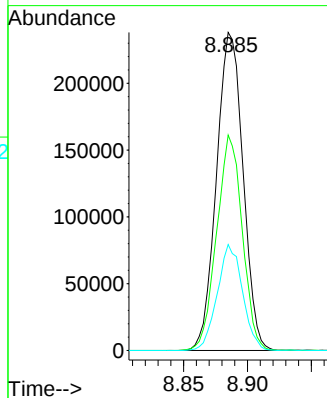
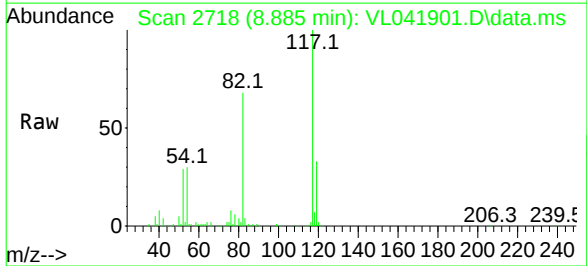
IA1

Tgt Ion:	117	Resp:	344203
Ion	Ratio	Lower	Upper
117	100		
82	65.4	54.2	81.4
119	31.7	25.0	37.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.013 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. -0.010 min

Lab File: VL041901.D

Acq: 14 Jan 2025 20:40

Tgt Ion:	95	Resp:	271467
Ion	Ratio	Lower	Upper
95	100		
174	59.0	49.0	73.4
175	4.7	3.8	5.8

