

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042293.D
 Acq On : 09 Apr 2025 15:15
 Operator : SY/MD
 Sample : Q1665-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-1-3242025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

Quant Time: Apr 10 01:45:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

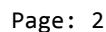
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

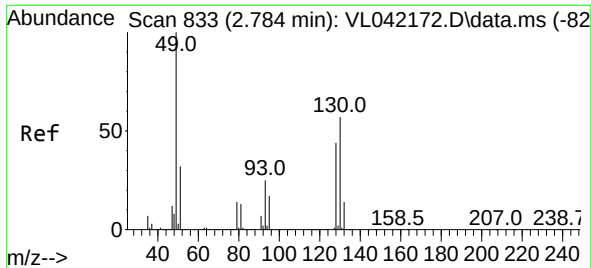
Internal Standards						
1) Bromochloromethane	2.784	49	162172	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	394727	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	338809	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	260496	9.362	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.600%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.496	85	8768	0.366	ppbv	100
3) Chlorodifluoromethane	1.473	51	21947m	0.897	ppbv	
4) Chloromethane	1.531	50	5713	0.584	ppbv	94
9) Propene	1.486	41	24421m	2.178	ppbv	
10) Heptane	4.975	43	3638m	0.122	ppbv	
11) Trichlorofluoromethane	1.874	101	5120	0.220	ppbv	94
13) Ethanol	1.719	45	40099	37.833	ppbv	81
15) Acetone	1.832	43	192031	8.467	ppbv	94
19) Isopropyl Alcohol	1.884	45	298845	23.353	ppbv #	32
20) Methylene Chloride	2.059	84	9248	1.095	ppbv	97
26) Hexane	2.823	57	46406	2.041	ppbv #	35
34) 2-Butanone	2.554	43	134955	4.715	ppbv	98
35) Carbon Tetrachloride	3.758	117	2420m	0.078	ppbv	
36) Benzene	3.651	78	11524	0.294	ppbv #	90
41) Tetrahydrofuran	3.062	42	5513m	0.334	ppbv	
53) Toluene	6.930	91	22070	0.476	ppbv	98
57) Chlorobenzene	8.914	112	7743	0.241	ppbv #	83
59) m/p-Xylene	9.529	91	8935	0.186	ppbv	95

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

Manual Integrations
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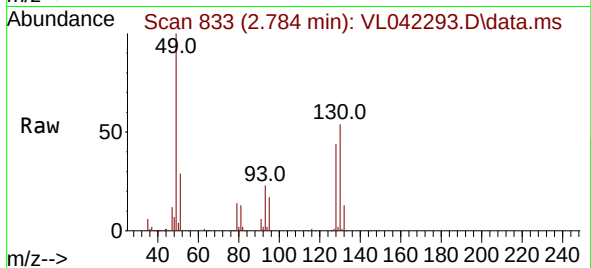
Quant Time: Apr 10 01:45:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

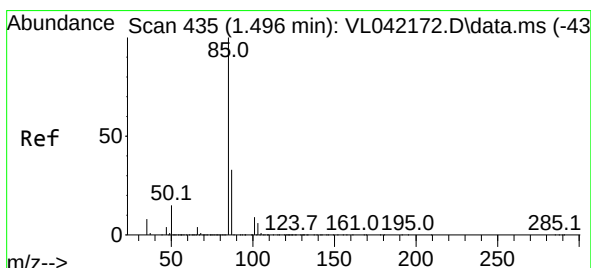
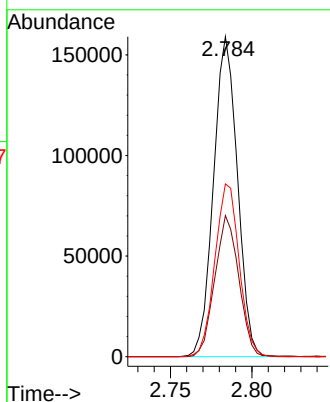
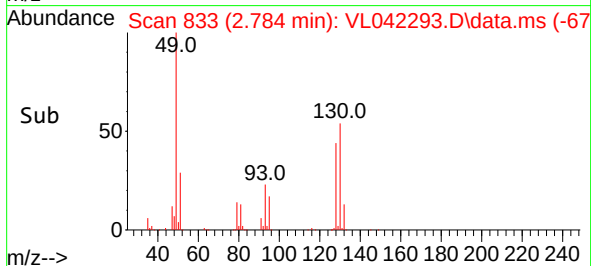
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025



Tgt Ion: 49 Resp: 162172
Ion Ratio Lower Upper
49 100
128 44.1 22.9 68.5
130 55.0 28.8 86.4

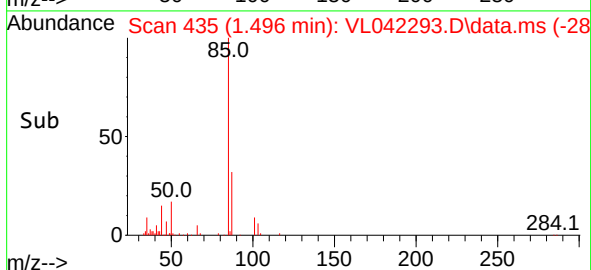
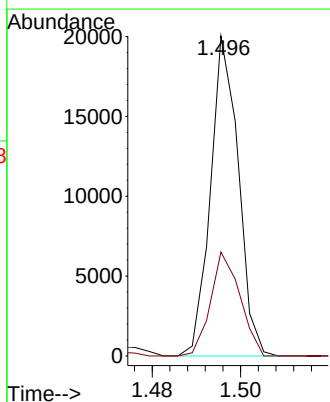
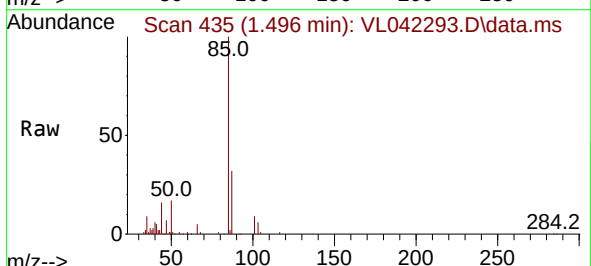
Manual Integrations
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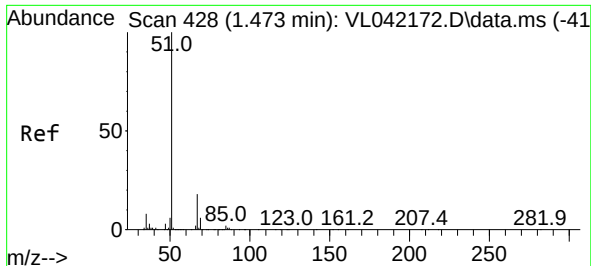
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#2
Dichlorodifluoromethane
Concen: 0.366 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

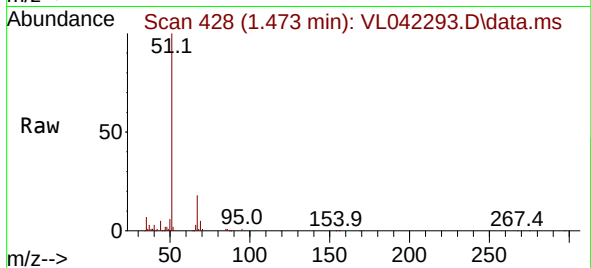
Tgt Ion: 85 Resp: 8768
Ion Ratio Lower Upper
85 100
87 32.5 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.897 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

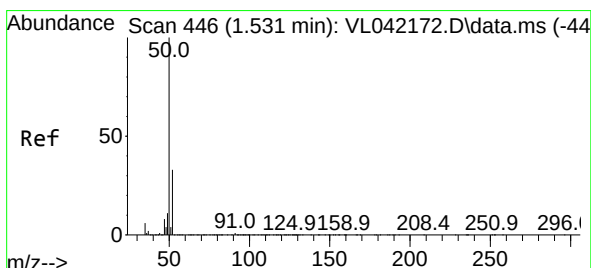
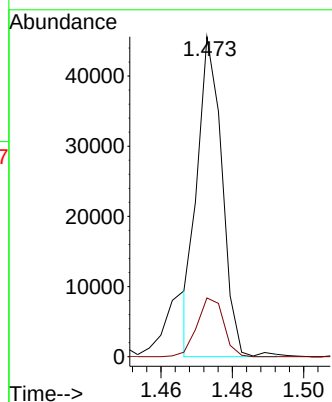
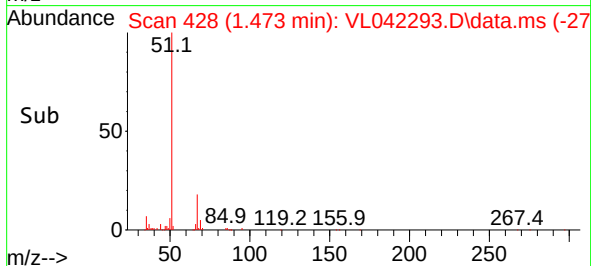
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025



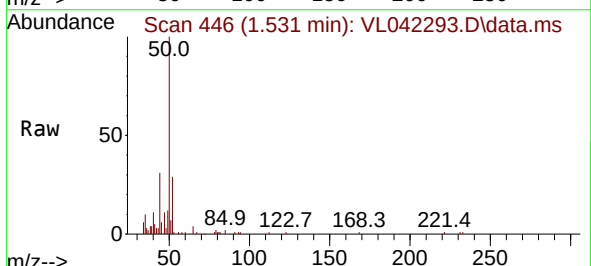
Tgt Ion: 51 Resp: 2194
Ion Ratio Lower Upper
51 100
67 19.8 15.0 22.6

Manual Integrations
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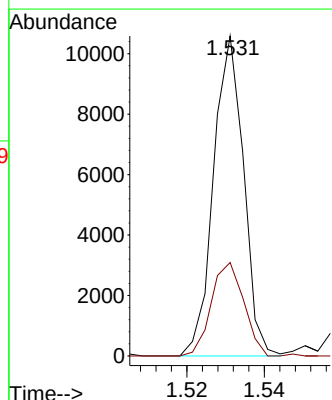
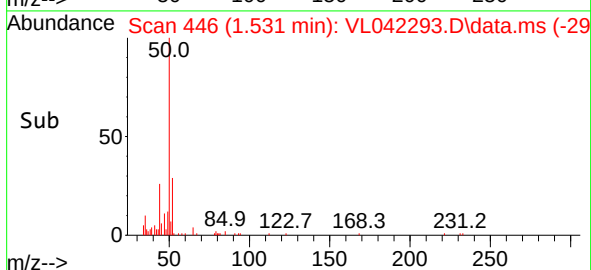
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

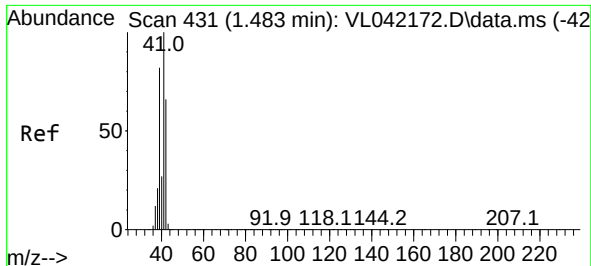


#4
Chloromethane
Concen: 0.584 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15



Tgt Ion: 50 Resp: 5713
Ion Ratio Lower Upper
50 100
52 29.2 26.1 39.1





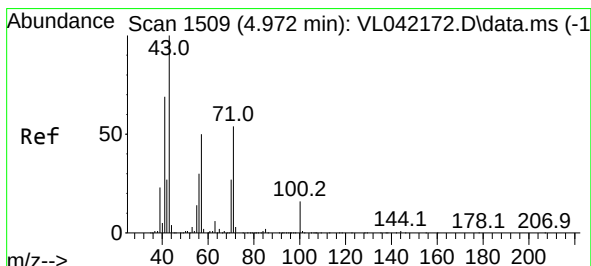
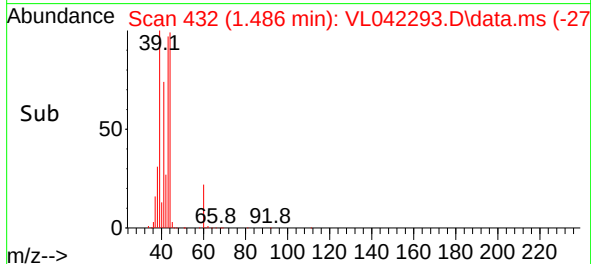
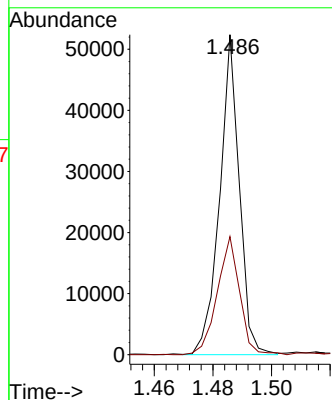
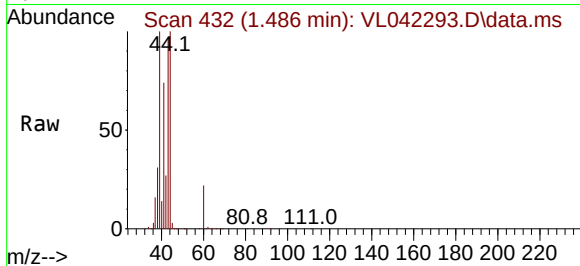
#9
 Propene
 Concen: 2.178 ppbv m
 RT: 1.486 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042293.D
 Acq: 09 Apr 2025 15:15

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-1-3242025

Tgt Ion: 41 Resp: 2442
 Ion Ratio Lower Upper
 41 100
 42 76.6 55.4 83.2

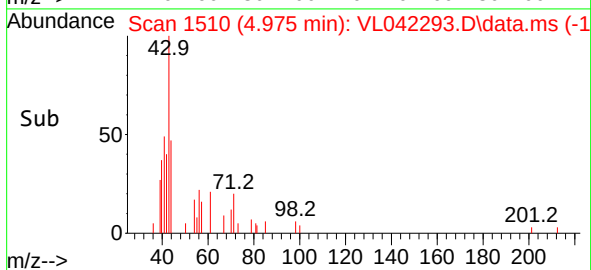
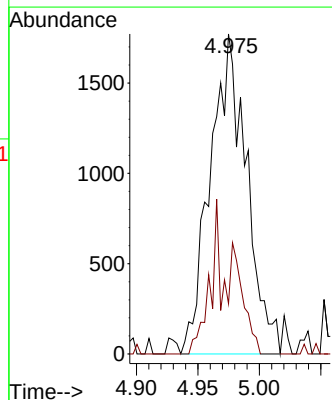
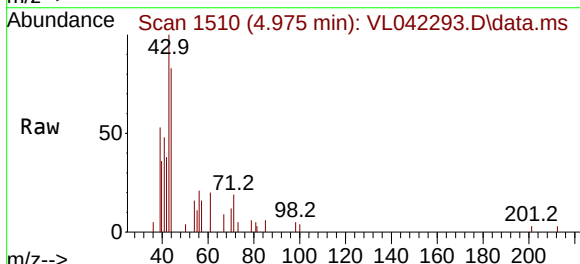
Manual Integrations
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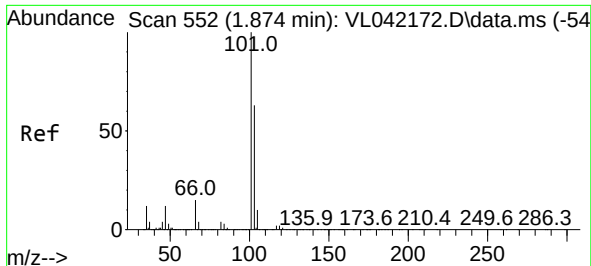
Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#10
 Heptane
 Concen: 0.122 ppbv m
 RT: 4.975 min Scan# 1510
 Delta R.T. 0.003 min
 Lab File: VL042293.D
 Acq: 09 Apr 2025 15:15

Tgt Ion: 43 Resp: 3638
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.4 59.2#





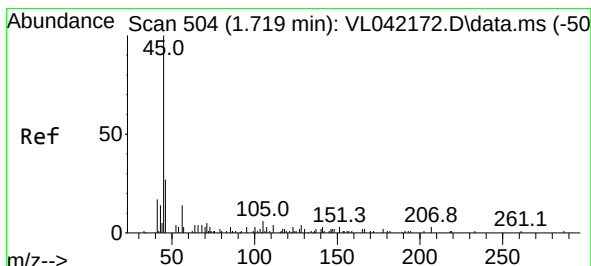
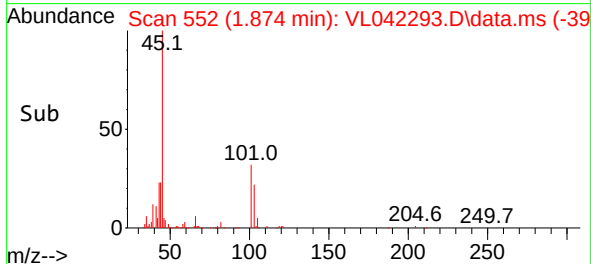
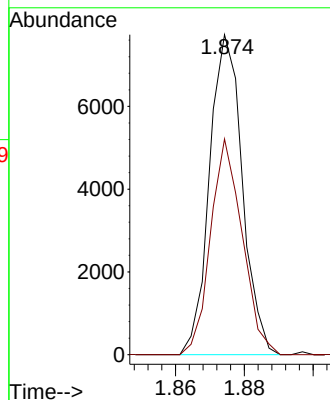
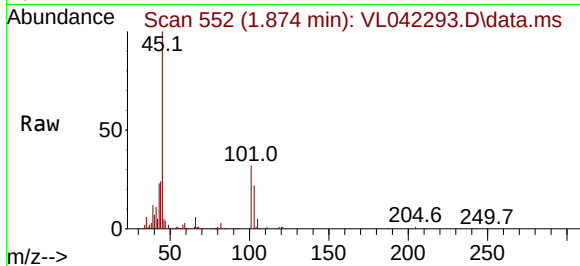
#11
Trichlorofluoromethane
Concen: 0.220 ppbv
RT: 1.874 min Scan# 5120
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Instrument : MSVOA_L
ClientSampleId : IA-B9-1-3242025

Tgt Ion:101 Resp: 5120
Ion Ratio Lower Upper
101 100
103 67.4 50.2 75.2

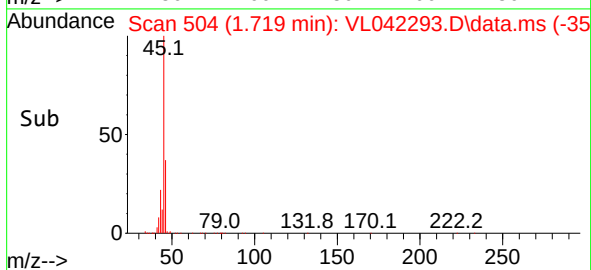
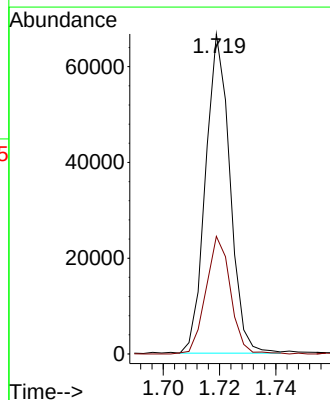
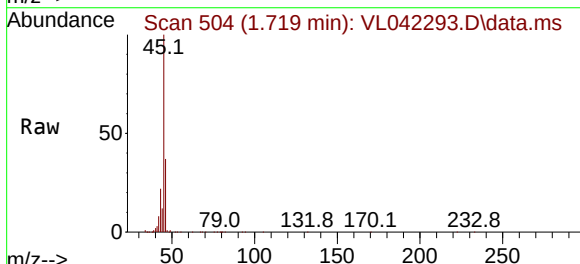
Manual Integrations
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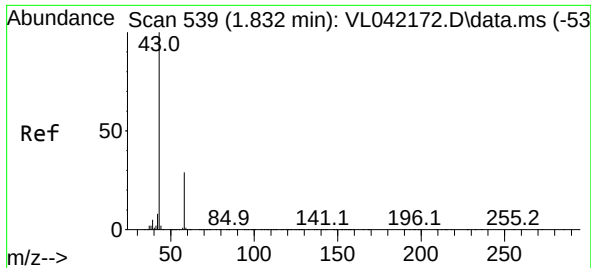
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#13
Ethanol
Concen: 37.833 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Tgt Ion: 45 Resp: 40099
Ion Ratio Lower Upper
45 100
46 37.4 20.2 80.8





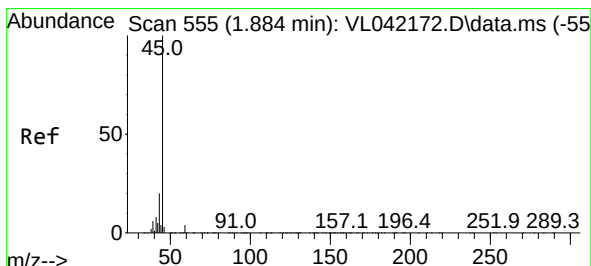
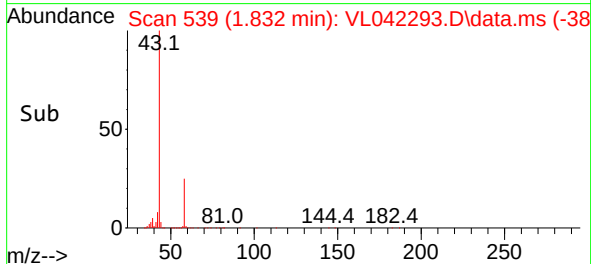
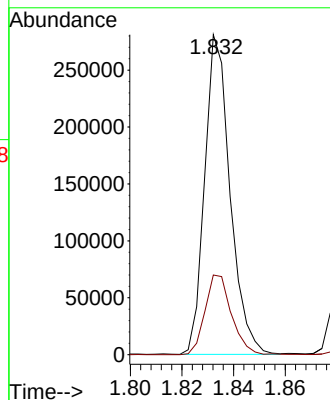
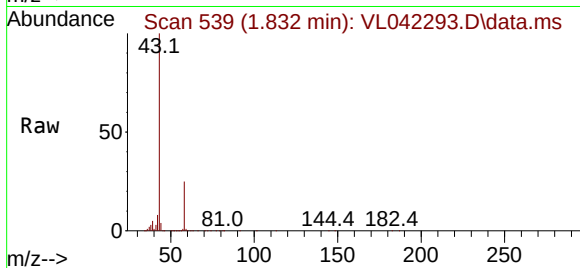
#15
Acetone
Concen: 8.467 ppbv
RT: 1.832 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

Instrument : MSVOA_L
ClientSampleId : IA-B9-1-3242025

Tgt Ion: 43 Resp: 19203
Ion Ratio Lower Upper
43 100
58 26.1 23.2 34.8

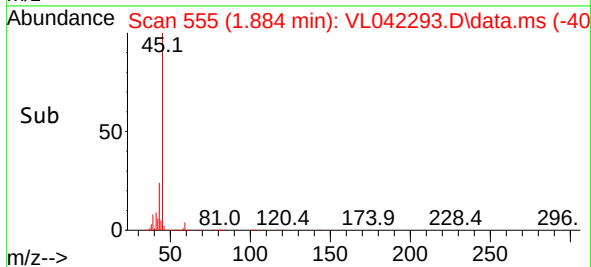
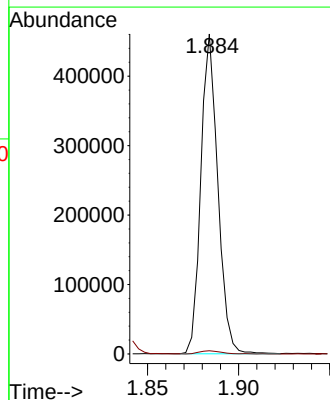
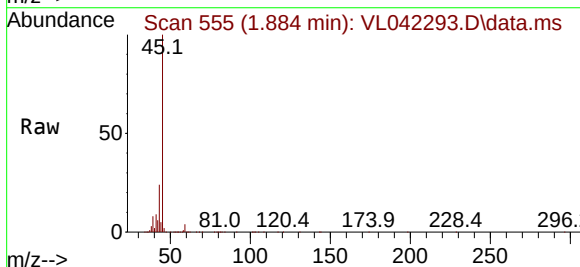
Manual Integrations
APPROVED

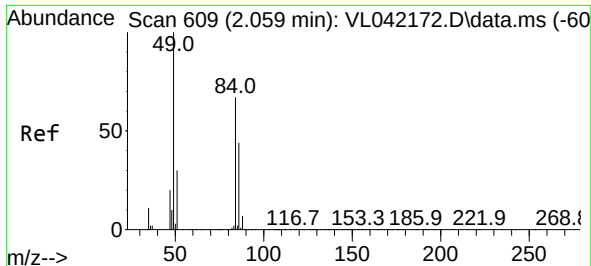
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#19
Isopropyl Alcohol
Concen: 23.353 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

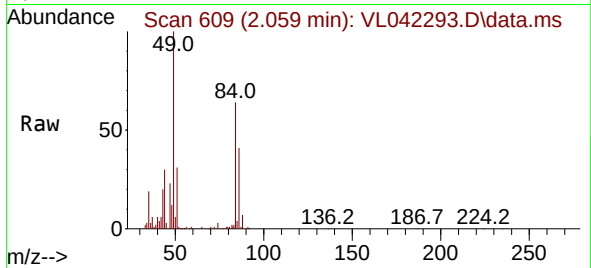
Tgt Ion: 45 Resp: 298845
Ion Ratio Lower Upper
45 100
58 1.3 36.9 55.3#





#20
Methylene Chloride
Concen: 1.095 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

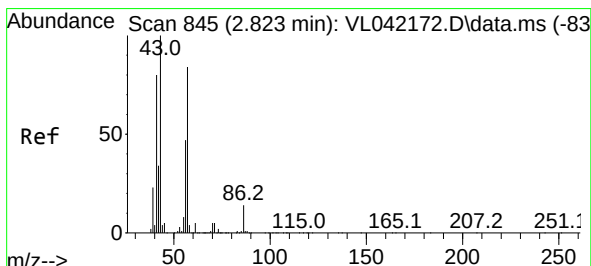
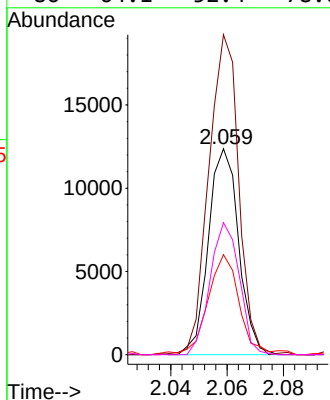
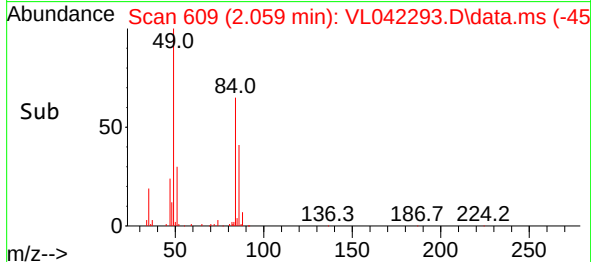
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025



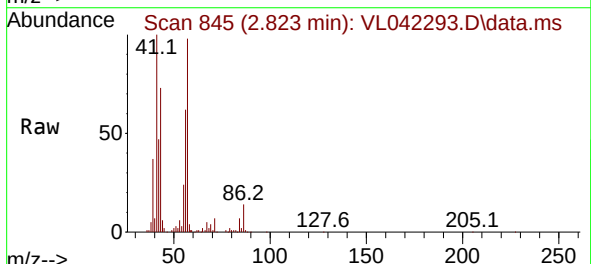
Tgt Ion: 84	Resp: 924
Ion Ratio	Lower Upper
84 100	
49 154.7	120.2 180.4
51 47.8	37.4 56.0
86 64.1	52.4 78.6

Manual Integrations
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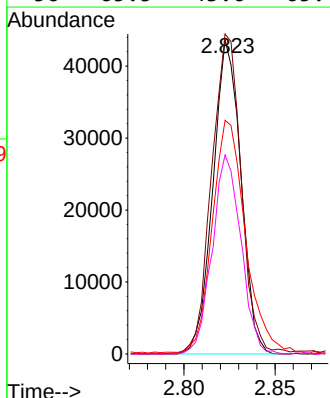
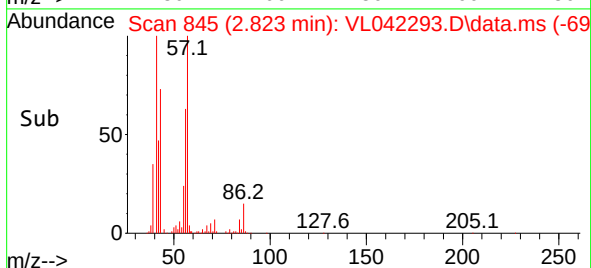
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

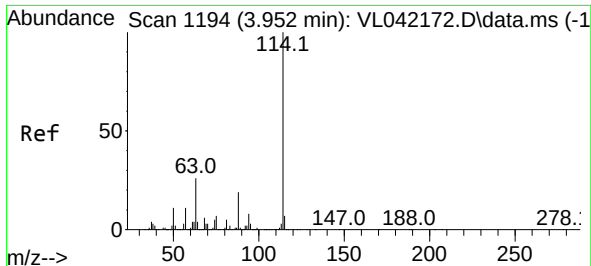


#26
Hexane
Concen: 2.041 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15



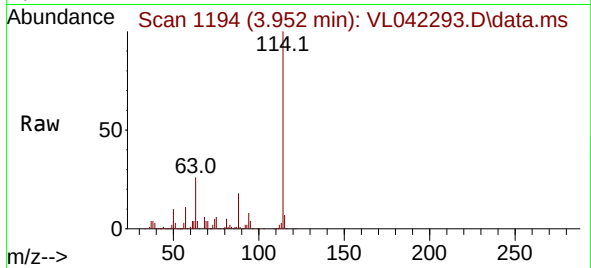
Tgt Ion: 57	Resp: 46406
Ion Ratio	Lower Upper
57 100	
41 108.6	76.6 114.8
43 89.9	207.8 311.8#
56 65.5	43.6 65.4#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

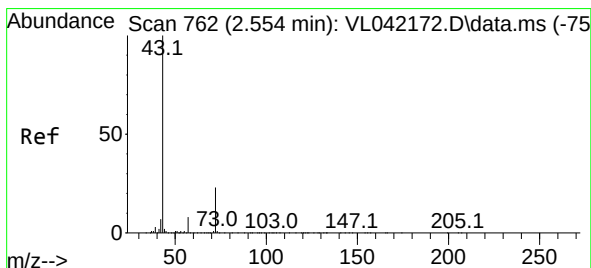
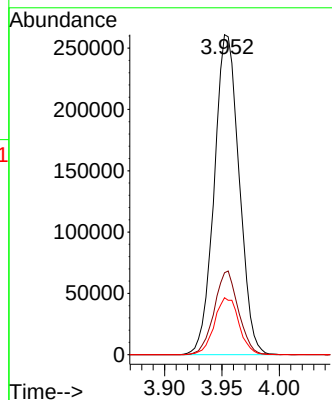
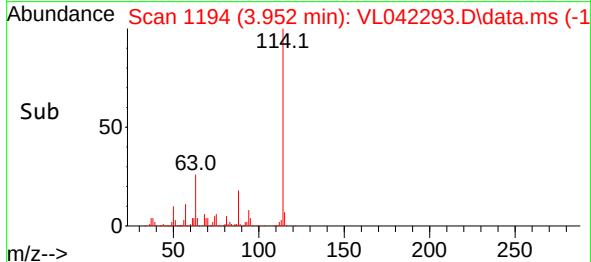
Instrument : MSVOA_L
ClientSampleId : IA-B9-1-3242025



Tgt Ion:114 Resp: 39472
Ion Ratio Lower Upper
114 100
63 25.3 20.7 31.1
88 17.6 15.0 22.4

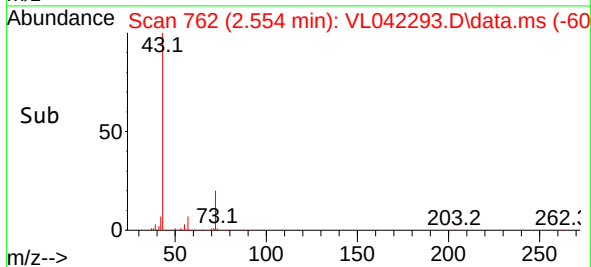
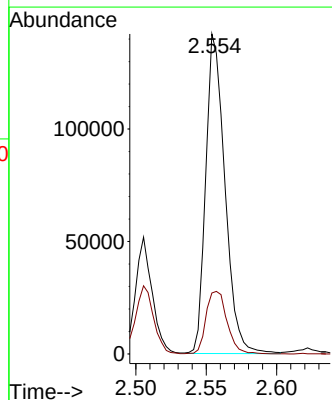
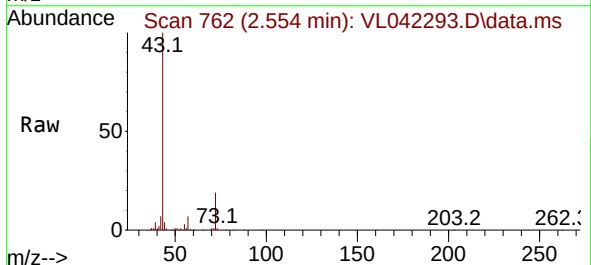
Manual Integrations
APPROVED

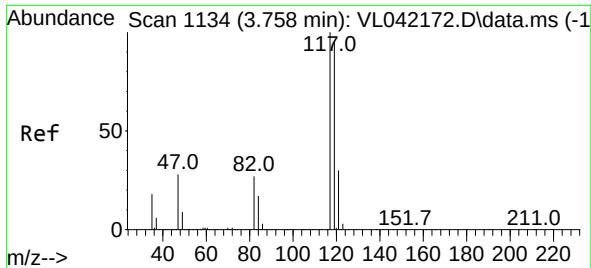
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#34
2-Butanone
Concen: 4.715 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

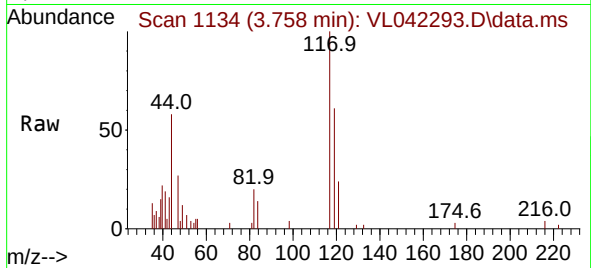
Tgt Ion: 43 Resp: 134955
Ion Ratio Lower Upper
43 100
72 21.5 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.078 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

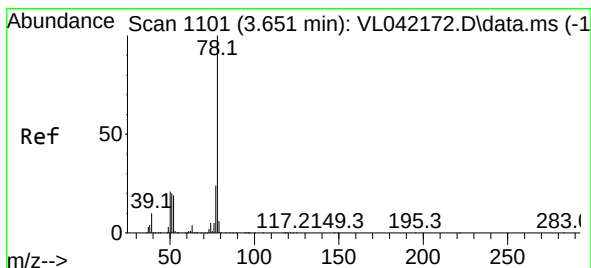
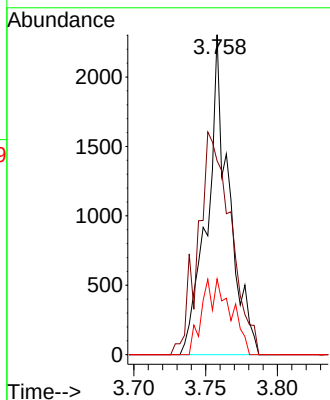
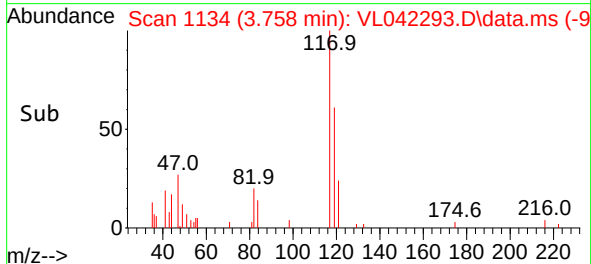
Instrument : MSVOA_L
ClientSampleId : IA-B9-1-3242025



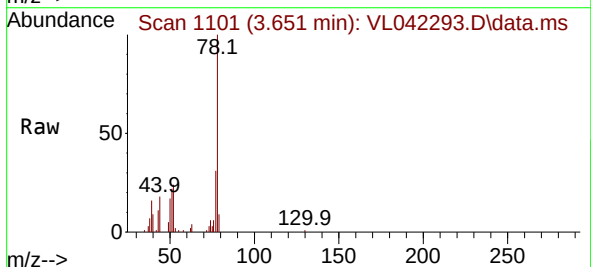
Tgt Ion: 117 Resp: 2420
Ion Ratio Lower Upper
117 100
119 60.6 76.2 114.2
121 23.6 24.2 36.4

Manual Integrations
APPROVED

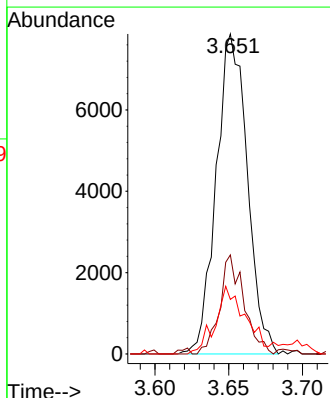
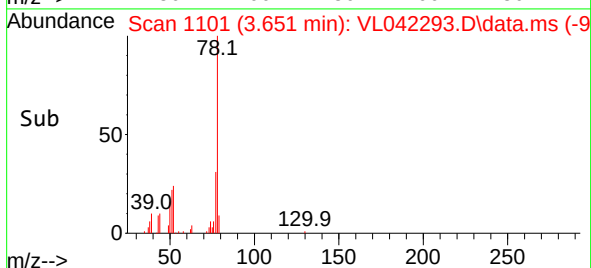
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

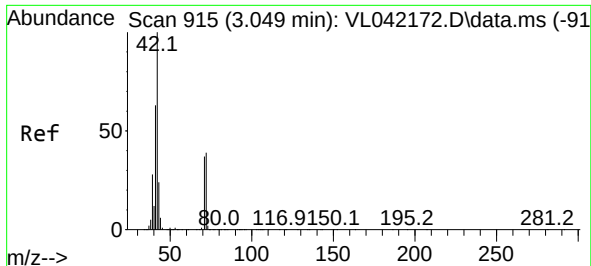


#36
Benzene
Concen: 0.294 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15



Tgt Ion: 78 Resp: 11524
Ion Ratio Lower Upper
78 100
77 29.8 19.1 28.7
50 17.1 16.6 24.8





#41

Tetrahydrofuran

Concen: 0.334 ppbv m

RT: 3.062 min Scan# 91

Delta R.T. 0.013 min

Lab File: VL042293.D

Acq: 09 Apr 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

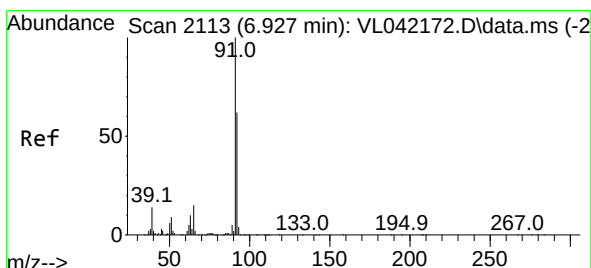
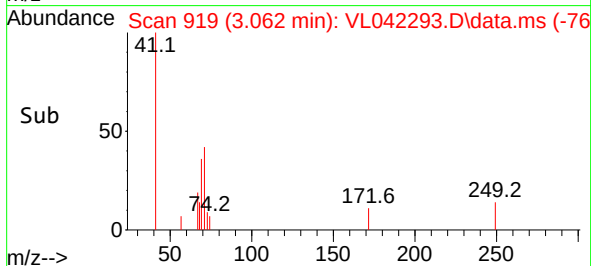
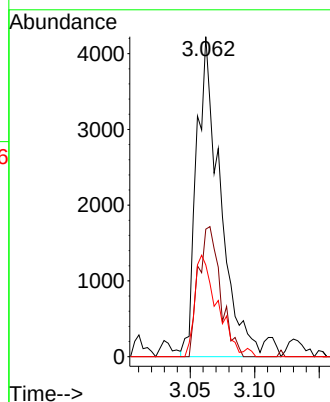
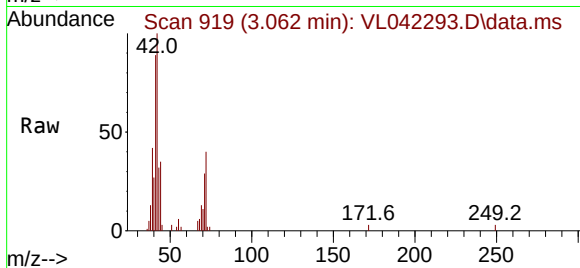
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Tgt Ion: 42	Resp: 551
Ion Ratio	Lower Upper
42 100	
72 37.1	31.4 47.0
71 30.0	30.2 45.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#53

Toluene

Concen: 0.476 ppbv

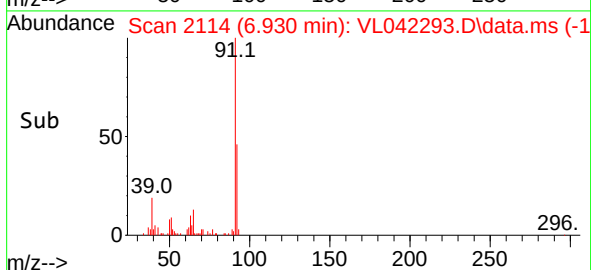
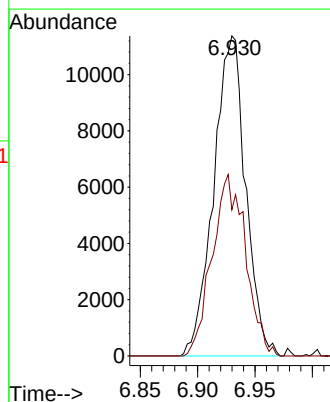
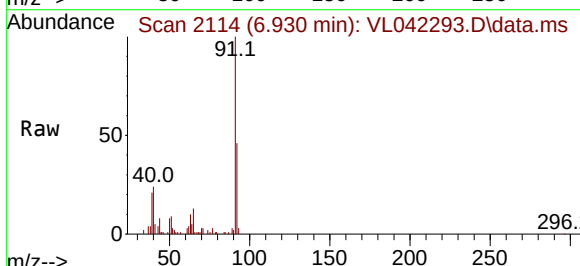
RT: 6.930 min Scan# 2114

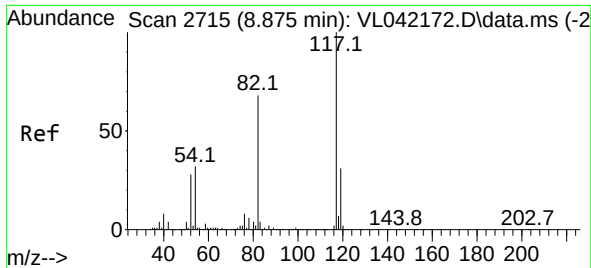
Delta R.T. 0.003 min

Lab File: VL042293.D

Acq: 09 Apr 2025 15:15

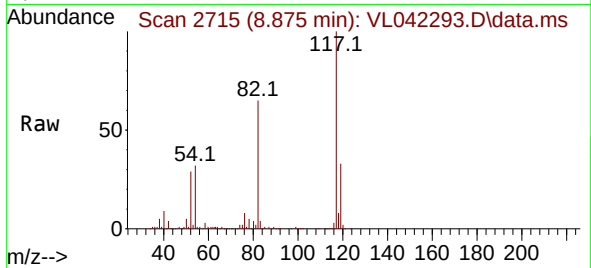
Tgt Ion: 91	Resp: 22070
Ion Ratio	Lower Upper
91 100	
92 59.2	48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.000 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15

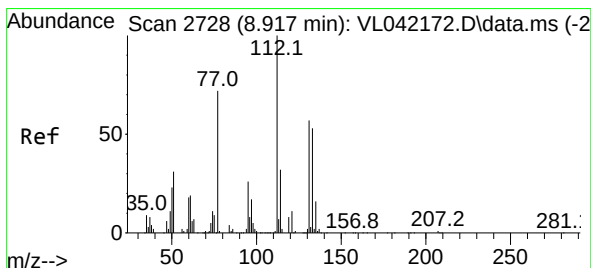
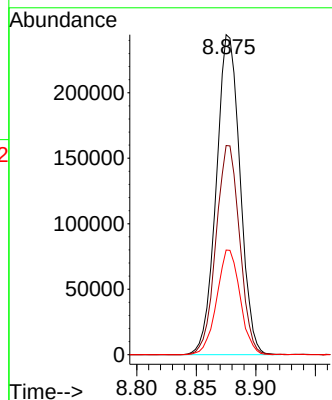
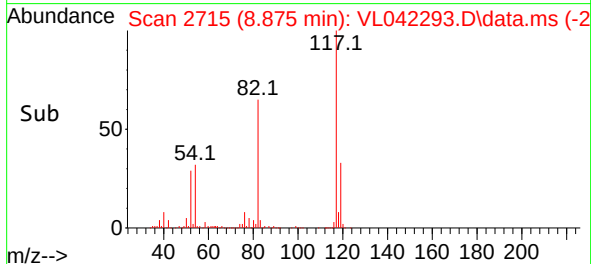
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-1-3242025



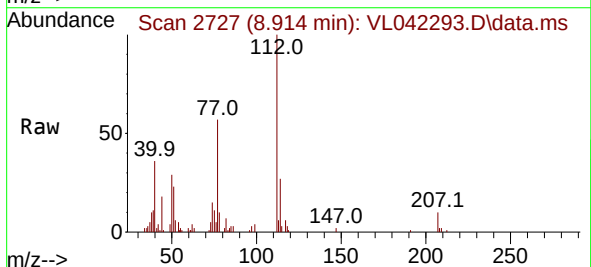
Tgt Ion:117 Resp: 338809
Ion Ratio Lower Upper
117 100
82 65.0 55.8 83.6
119 32.2 25.5 38.3

Manual Integrations
APPROVED

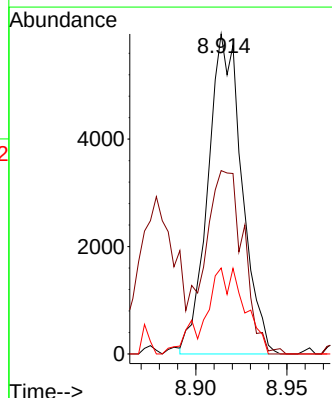
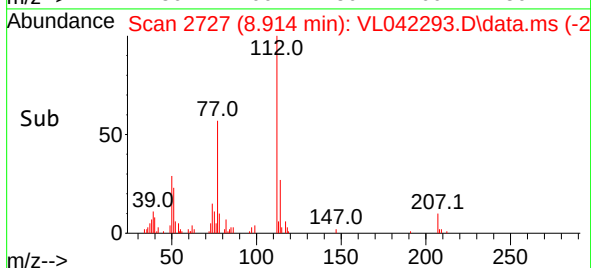
Reviewed By :Semsettin Yesilyurt 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

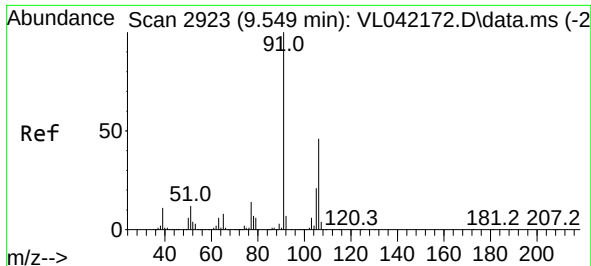


#57
Chlorobenzene
Concen: 0.241 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. -0.003 min
Lab File: VL042293.D
Acq: 09 Apr 2025 15:15



Tgt Ion:112 Resp: 7743
Ion Ratio Lower Upper
112 100
77 55.6 58.2 87.2#
114 26.9 29.1 35.5#





#59

m/p-Xylene

Concen: 0.186 ppbv

RT: 9.529 min Scan# 2923

Delta R.T. -0.020 min

Lab File: VL042293.D

Acq: 09 Apr 2025 15:15

Instrument :

MSVOA_L

ClientSampleId :

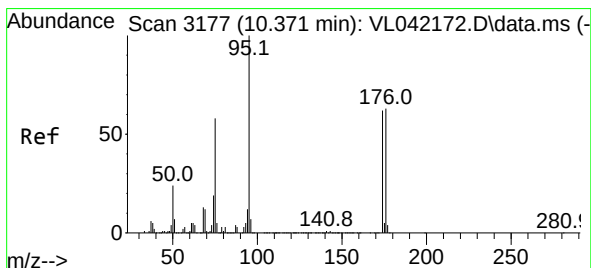
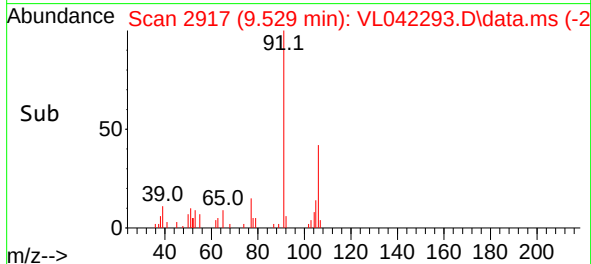
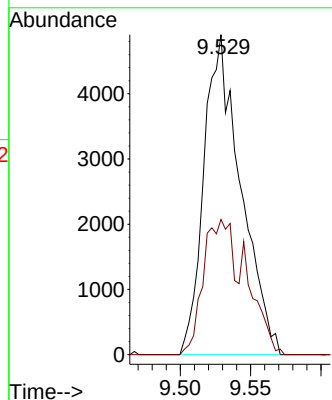
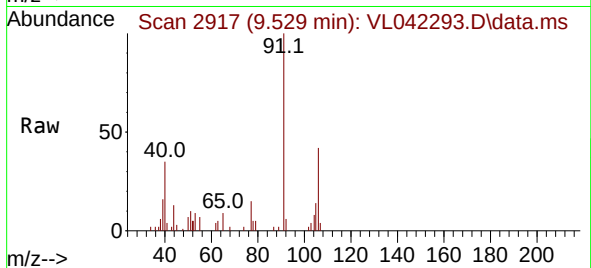
IA-B9-1-3242025

Tgt Ion: 91 Resp: 893
 Ion Ratio Lower Upper
 91 100
 106 48.6 36.4 54.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.362 ppbv

RT: 10.370 min Scan# 3177

Delta R.T. -0.000 min

Lab File: VL042293.D

Acq: 09 Apr 2025 15:15

Tgt Ion: 95 Resp: 260496
 Ion Ratio Lower Upper
 95 100
 174 62.4 50.6 76.0
 175 4.6 3.8 5.6

