

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
 Data File : VL042425.D
 Acq On : 28 Apr 2025 14:34
 Operator : SY/MD
 Sample : Q1665-22
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-3242025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025
 Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 29 01:37:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	133015	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	381932	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	330693	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	282648	10.401	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	11713	0.498	ppbv #	86
3) Chlorodifluoromethane	1.476	51	6357m	0.284	ppbv	
4) Chloromethane	1.531	50	5550	0.597	ppbv	99
9) Propene	1.486	41	12230	1.200	ppbv	85
10) Heptane	4.985	43	18959m	0.662	ppbv	
11) Trichlorofluoromethane	1.877	101	5207	0.233	ppbv	98
13) Ethanol	1.719	45	406613	251.014	ppbv	76
15) Acetone	1.835	43	301557m	13.849	ppbv	
17) tert-Butyl alcohol	2.043	59	8174m	0.303	ppbv	
19) Isopropyl Alcohol	1.884	45	341849	28.261	ppbv #	34
20) Methylene Chloride	2.059	84	5072	0.595	ppbv	87
26) Hexane	2.823	57	57941	2.667	ppbv #	36
30) Cyclohexane	3.849	84	4624m	0.263	ppbv	
34) 2-Butanone	2.560	43	15646	0.518	ppbv	97
35) Carbon Tetrachloride	3.758	117	2406m	0.070	ppbv	
36) Benzene	3.654	78	23147	0.562	ppbv	95
44) 2,2,4-Trimethylpentane	4.638	57	84397	1.186	ppbv #	91
53) Toluene	6.933	91	232100	4.695	ppbv	99
58) Ethyl Benzene	9.354	91	33267	0.508	ppbv	98
59) m/p-Xylene	9.529	91	92347	1.750	ppbv	100
60) o-Xylene	9.959	91	36544	0.688	ppbv	97
61) Styrene	9.869	104	3587	0.141	ppbv	91
64) n-propylbenzene	10.985	120	2357	0.120	ppbv	86
72) 4-Ethyltoluene	11.118	105	11801	0.182	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.202	105	10642	0.186	ppbv	88
74) 1,2,4-Trimethylbenzene	11.536	105	34307	0.512	ppbv #	67

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

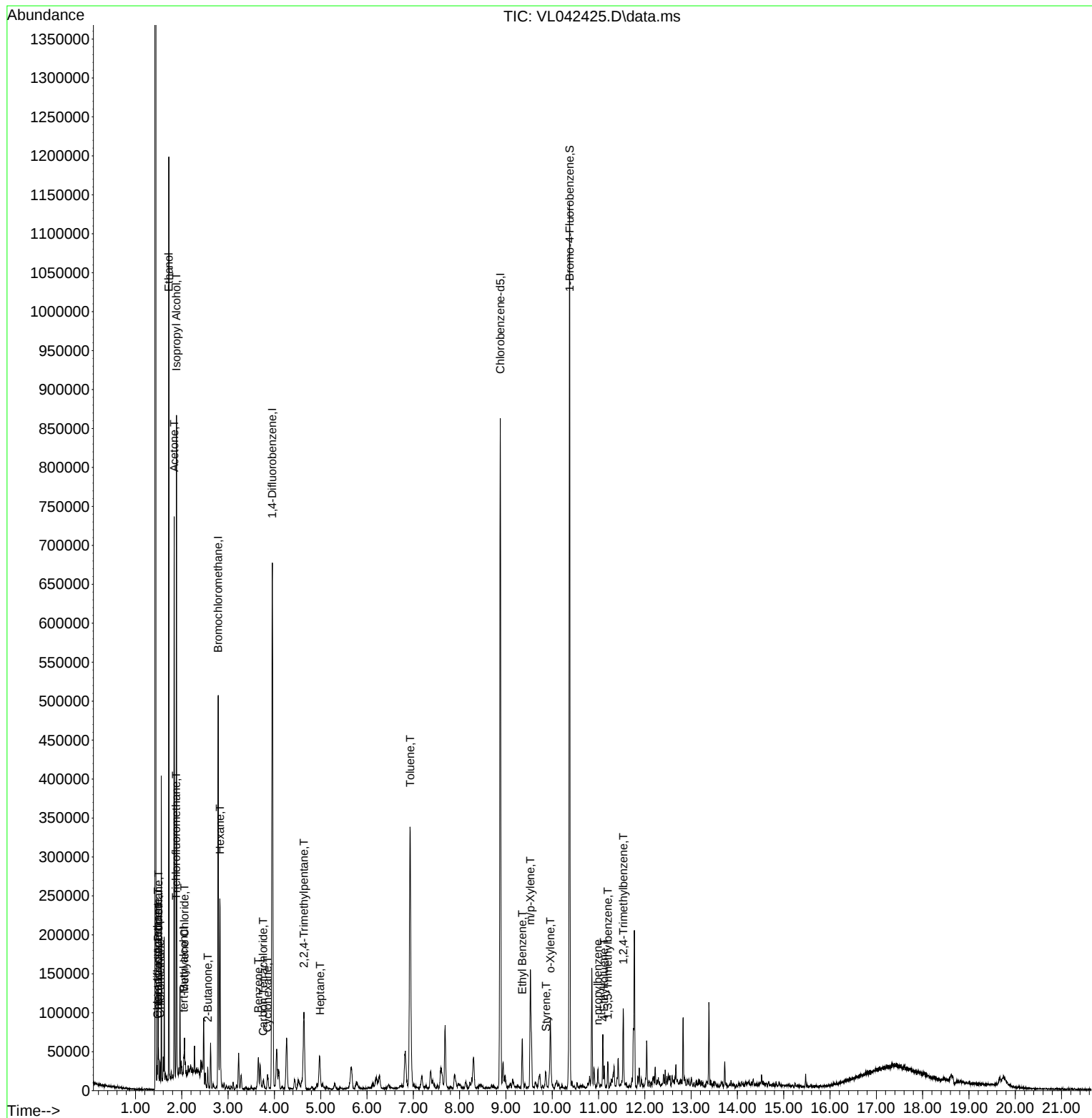
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
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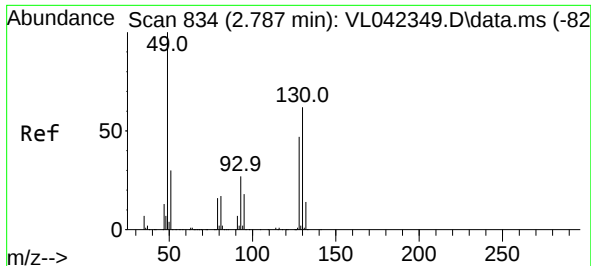
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-3242025

Quant Time: Apr 29 01:37:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
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Supervised By : Mahesh Dadoda 04/30/2025





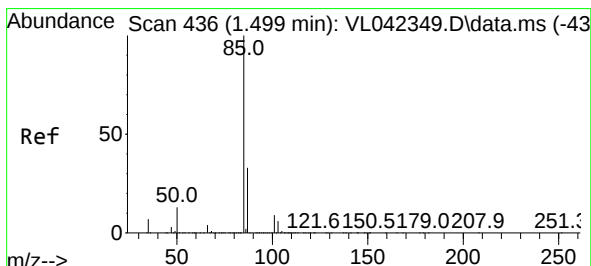
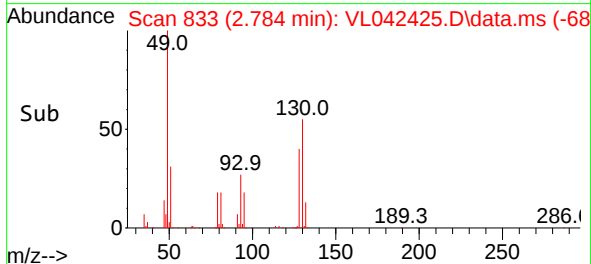
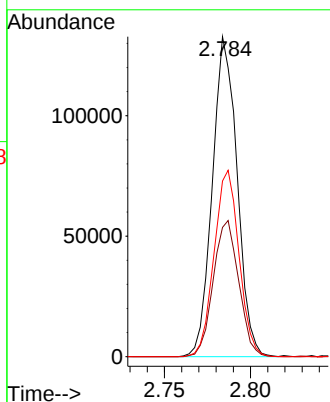
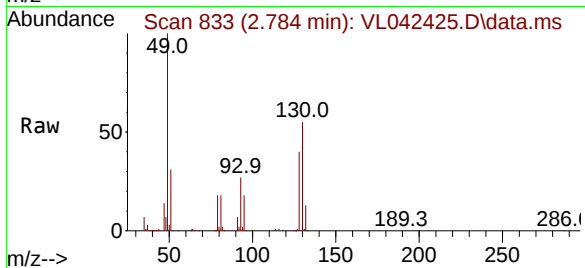
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-3242025

Tgt Ion: 49 Resp: 133015
Ion Ratio Lower Upper
49 100
128 43.7 22.8 68.4
130 58.6 29.3 88.0

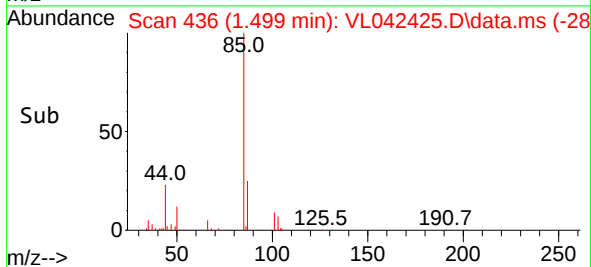
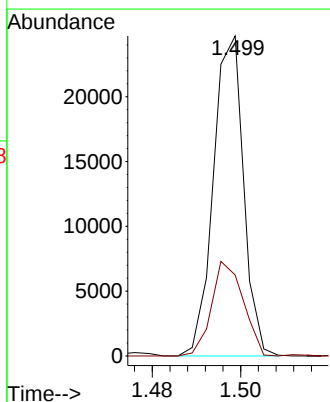
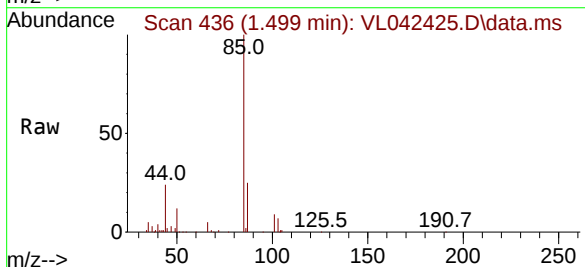
Manual Integrations
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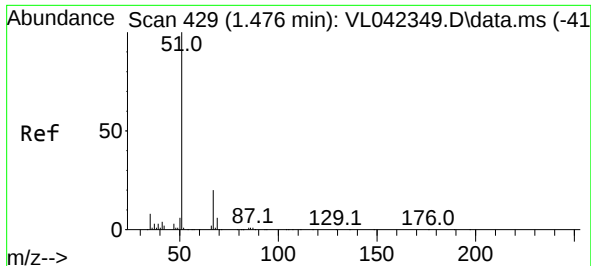
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025



#2
Dichlorodifluoromethane
Concen: 0.498 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

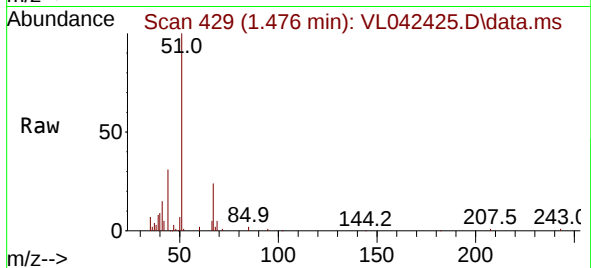
Tgt Ion: 85 Resp: 11713
Ion Ratio Lower Upper
85 100
87 25.3 26.6 39.8#





#3
Chlorodifluoromethane
Concen: 0.284 ppbv m
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

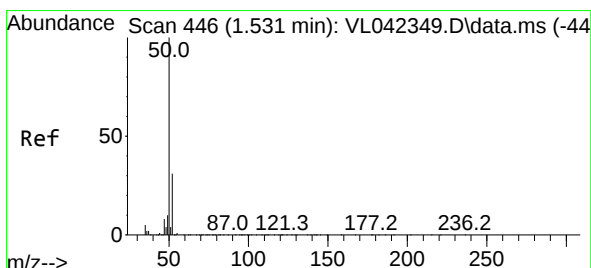
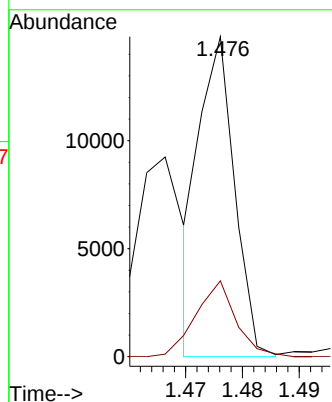
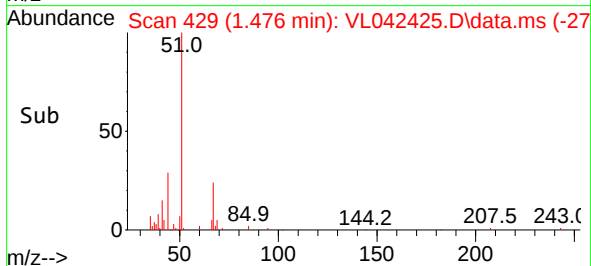
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-3242025



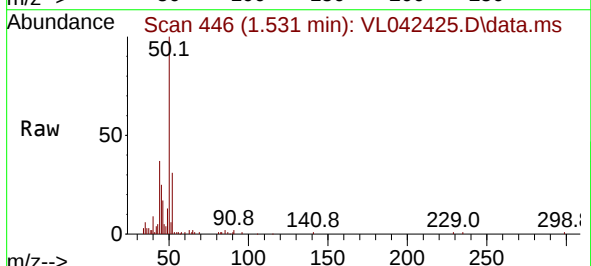
Tgt Ion: 51 Resp: 635
Ion Ratio Lower Upper
51 100
67 27.2 16.2 24.4

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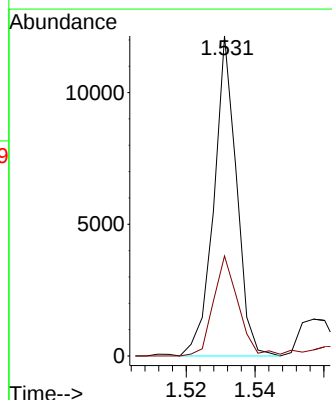
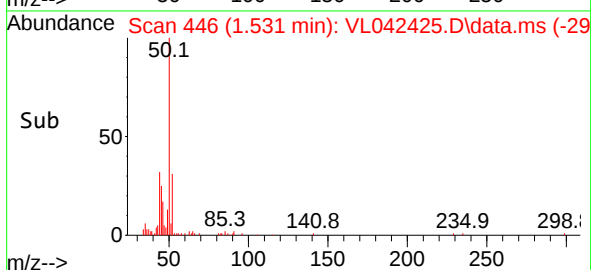
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

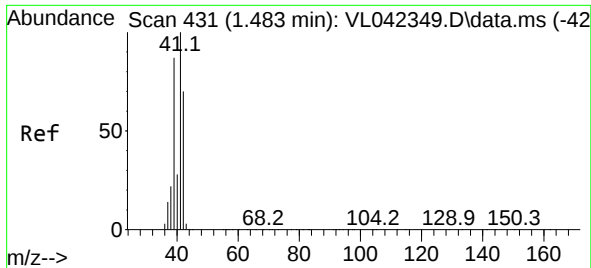


#4
Chloromethane
Concen: 0.597 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34



Tgt Ion: 50 Resp: 5550
Ion Ratio Lower Upper
50 100
52 31.2 24.7 37.1





#9

Propene

Concen: 1.200 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042425.D

Acq: 28 Apr 2025 14:34

Instrument :

MSVOA_L

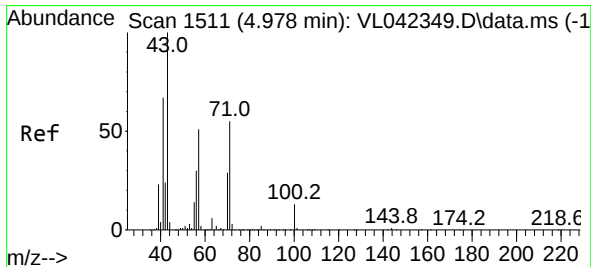
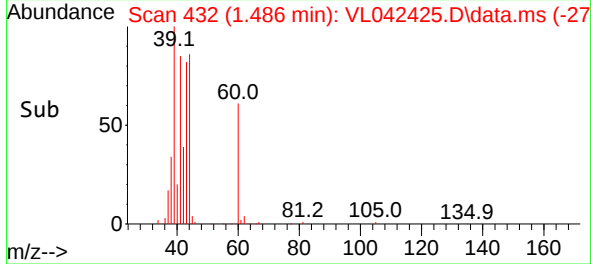
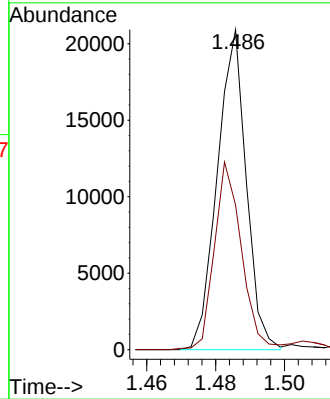
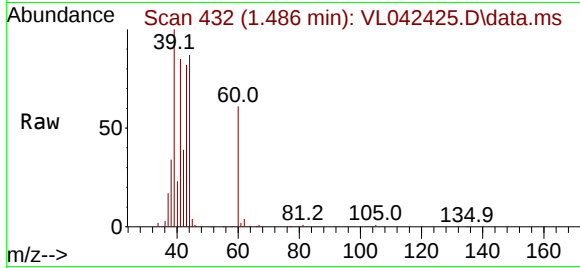
ClientSampleId :

IA-B2-4-3242025

Tgt Ion: 41 Resp: 12230
 Ion Ratio Lower Upper
 41 100
 42 57.6 56.2 84.4

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/29/2025
 Supervised By :Mahesh Dadoda 04/30/2025



#10

Heptane

Concen: 0.662 ppbv m

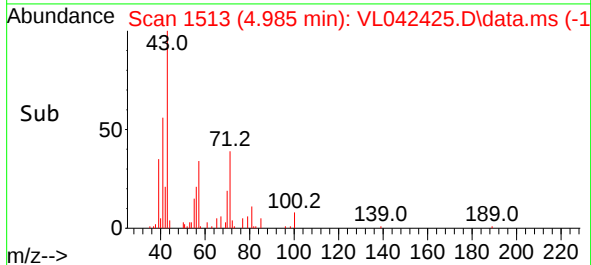
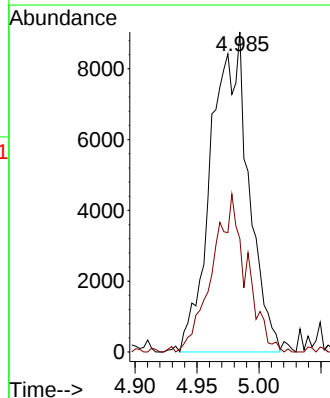
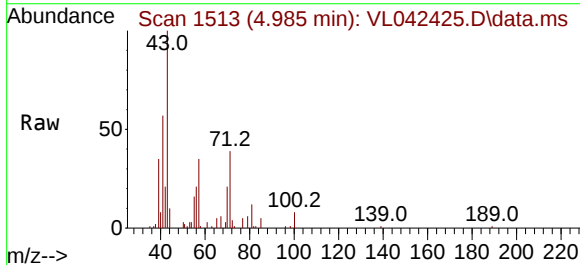
RT: 4.985 min Scan# 1513

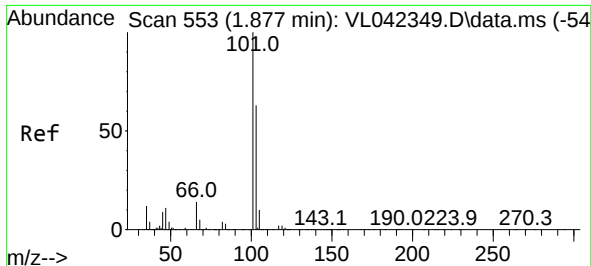
Delta R.T. 0.006 min

Lab File: VL042425.D

Acq: 28 Apr 2025 14:34

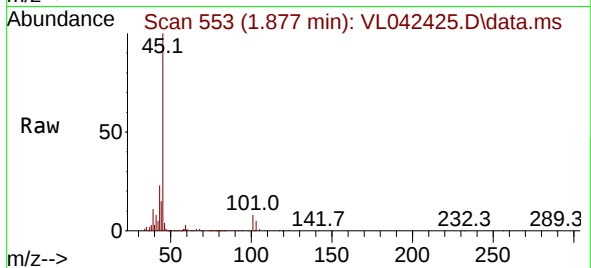
Tgt Ion: 43 Resp: 18959
 Ion Ratio Lower Upper
 43 100
 57 45.2 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.233 ppbv
RT: 1.877 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

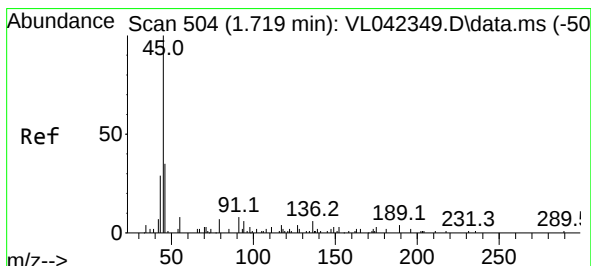
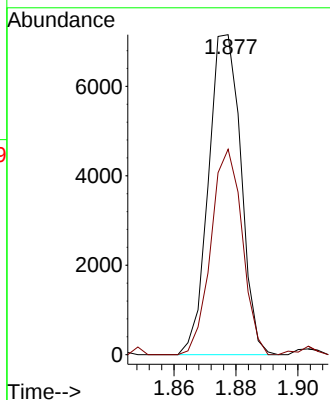
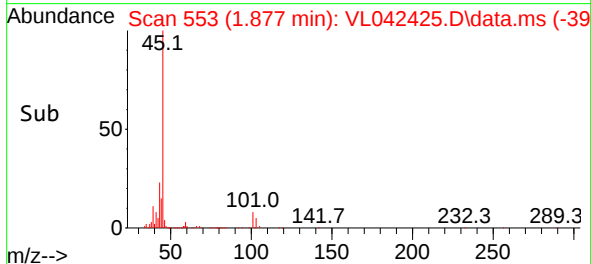
Instrument : MSVOA_L
ClientSampleId : IA-B2-4-3242025



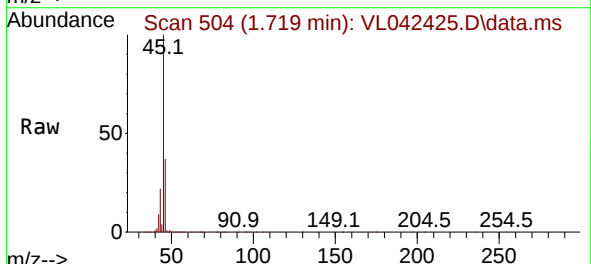
Tgt Ion:101 Resp: 520
Ion Ratio Lower Upper
101 100
103 64.2 50.1 75.1

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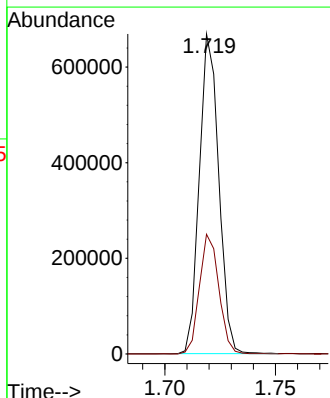
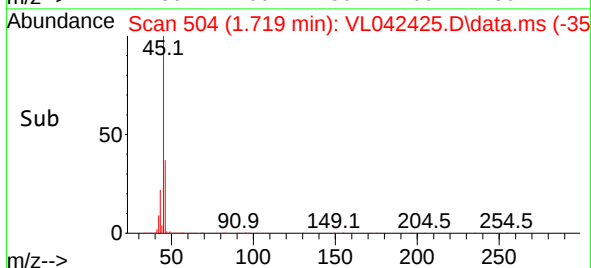
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

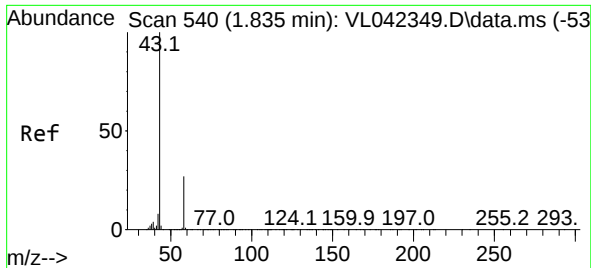


#13
Ethanol
Concen: 251.014 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34



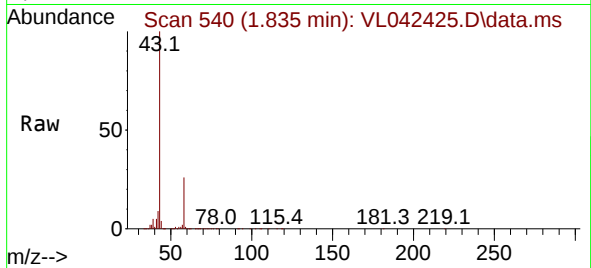
Tgt Ion: 45 Resp: 406613
Ion Ratio Lower Upper
45 100
46 37.8 21.9 87.7





#15
Acetone
Concen: 13.849 ppbv m
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

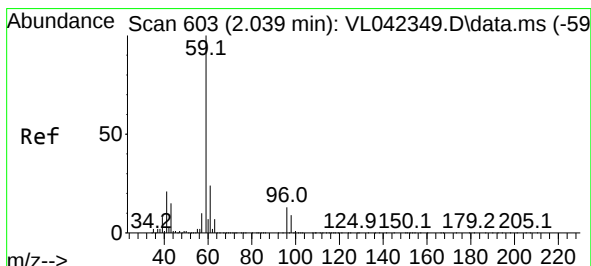
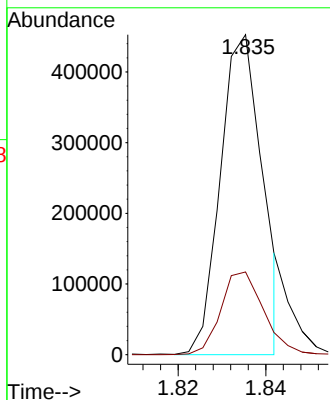
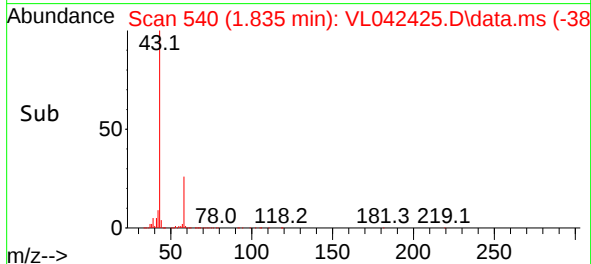
Instrument : MSVOA_L
ClientSampleId : IA-B2-4-3242025



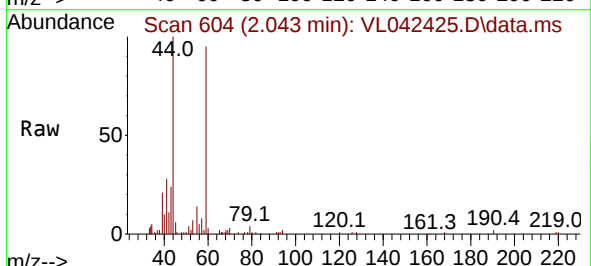
Tgt Ion: 43 Resp: 30155
Ion Ratio Lower Upper
43 100
58 26.6 22.4 33.6

Manual Integrations
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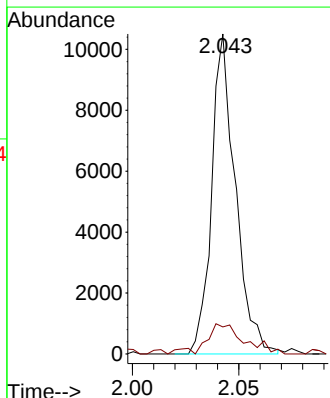
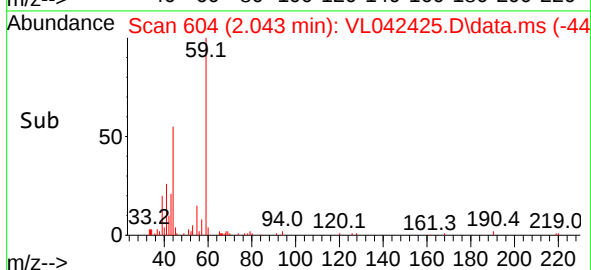
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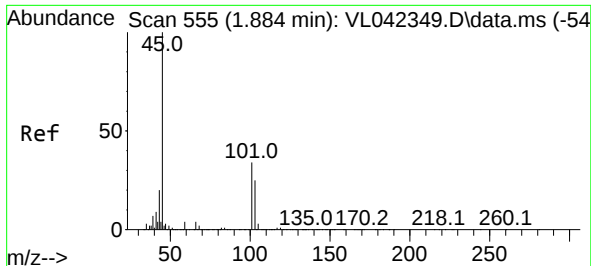


#17
tert-Butyl alcohol
Concen: 0.303 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34



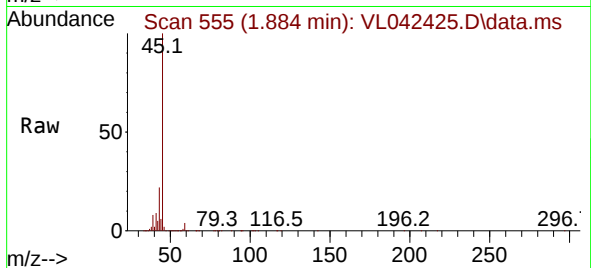
Tgt Ion: 59 Resp: 8174
Ion Ratio Lower Upper
59 100
57 16.8 8.7 13.1#





#19
Isopropyl Alcohol
Concen: 28.261 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

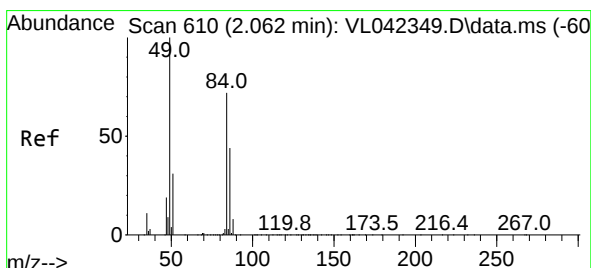
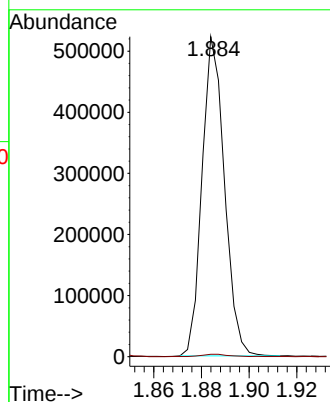
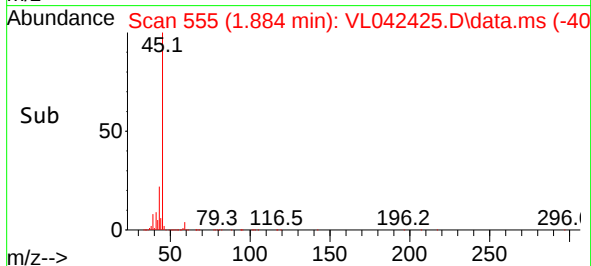
Instrument :
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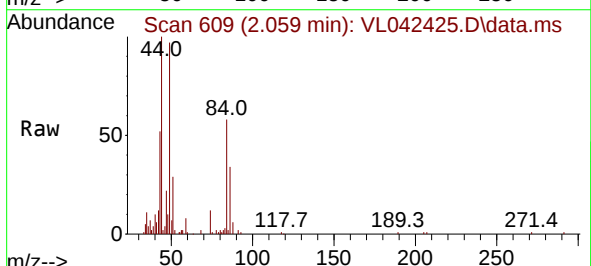
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Ion Ratio Lower Upper
45 100
58 1.1 34.5 51.7

Manual Integrations
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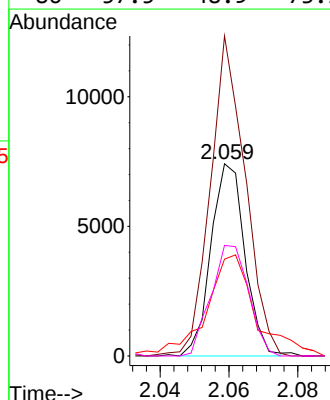
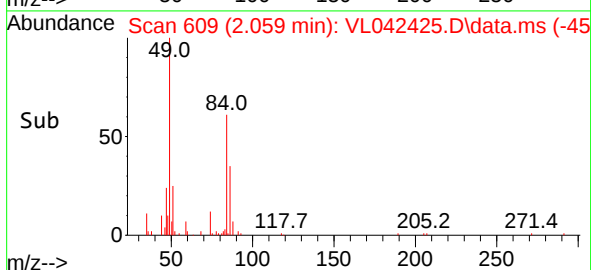
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

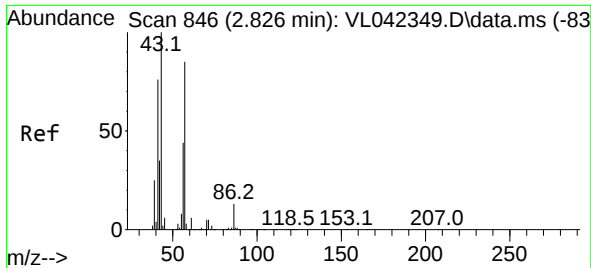


#20
Methylene Chloride
Concen: 0.595 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34



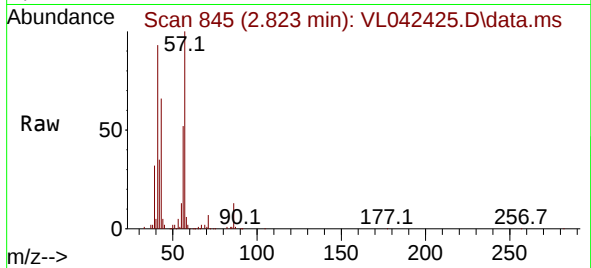
Tgt Ion: 84 Resp: 5072
Ion Ratio Lower Upper
84 100
49 165.2 111.6 167.4
51 44.3 35.1 52.7
86 57.5 48.9 73.3





#26
Hexane
Concen: 2.667 ppbv
RT: 2.823 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

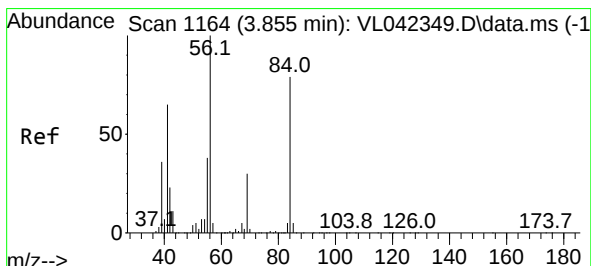
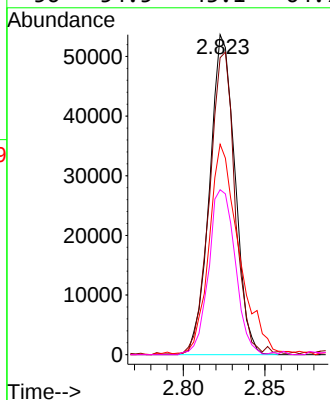
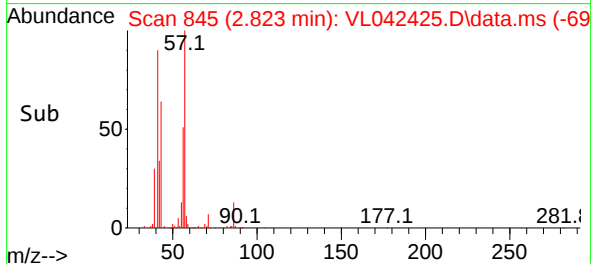
Instrument : MSVOA_L
ClientSampleId : IA-B2-4-3242025



Tgt Ion: 57 Resp: 5794
Ion Ratio Lower Upper
57 100
41 96.5 77.9 116.9
43 79.5 208.4 312.6
56 54.5 43.1 64.7

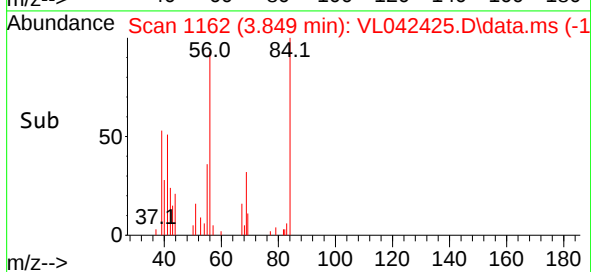
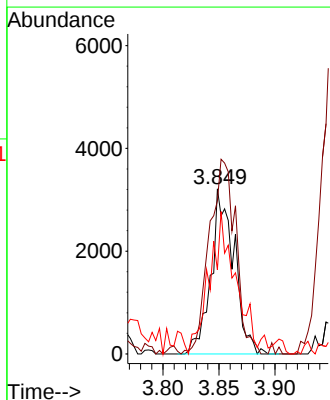
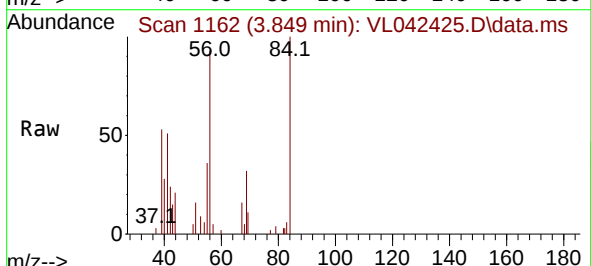
Manual Integrations
APPROVED

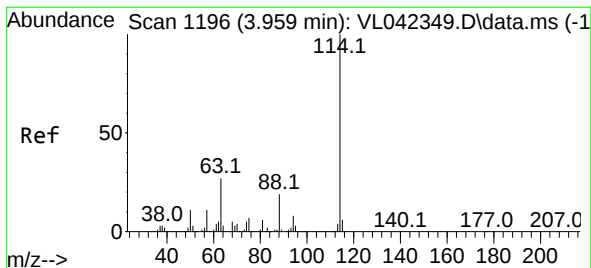
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025



#30
Cyclohexane
Concen: 0.263 ppbv m
RT: 3.849 min Scan# 1162
Delta R.T. -0.006 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 84 Resp: 4624
Ion Ratio Lower Upper
84 100
56 0.0 101.0 151.4#
41 0.0 67.4 101.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.003 min

Lab File: VL042425.D

Acq: 28 Apr 2025 14:34

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-4-3242025

Tgt Ion:114 Resp: 38193

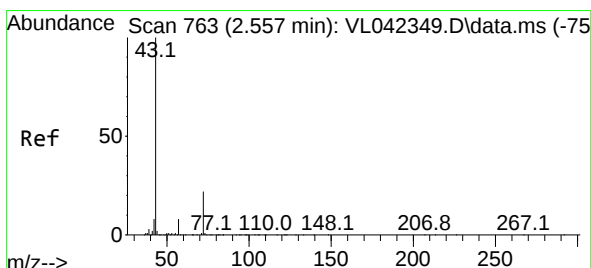
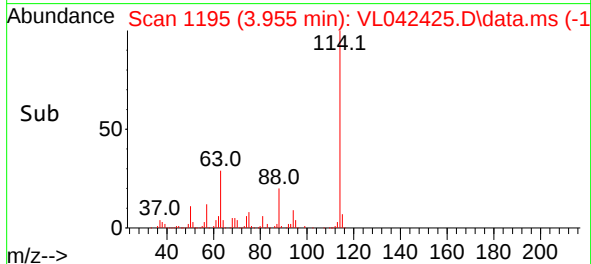
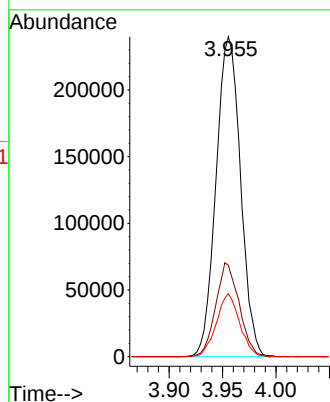
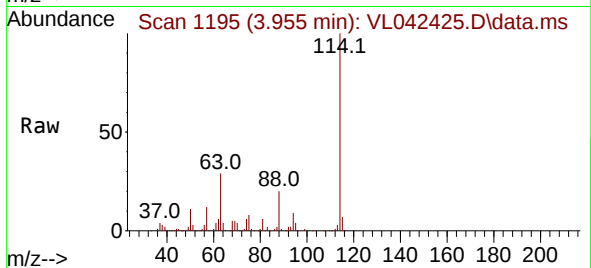
Ion	Ratio	Lower	Upper
114	100		
63	28.1	21.8	32.6
88	18.8	15.5	23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025

Supervised By :Mahesh Dadoda 04/30/2025



#34

2-Butanone

Concen: 0.518 ppbv

RT: 2.560 min Scan# 764

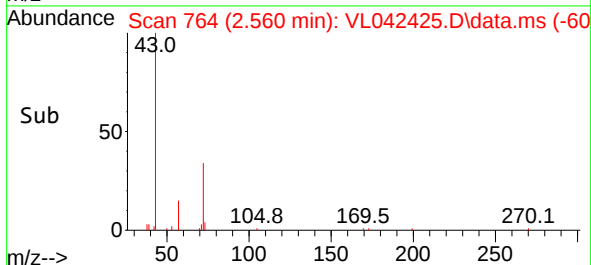
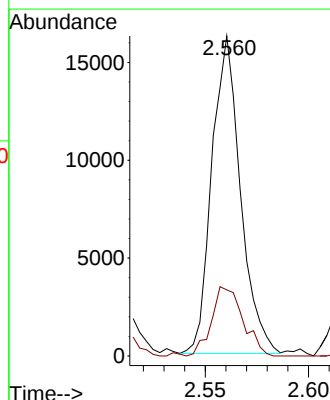
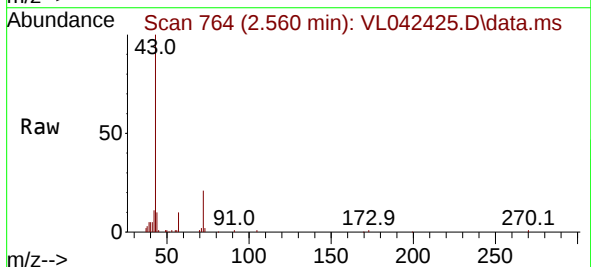
Delta R.T. 0.003 min

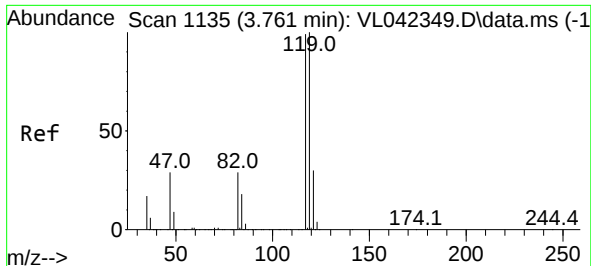
Lab File: VL042425.D

Acq: 28 Apr 2025 14:34

Tgt Ion: 43 Resp: 15646

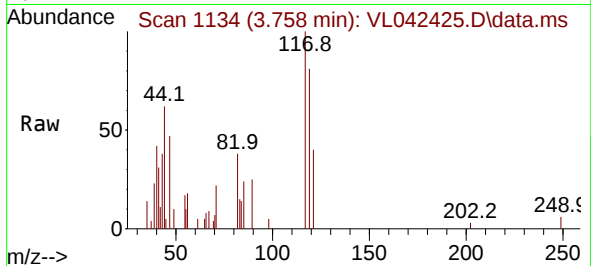
Ion	Ratio	Lower	Upper
43	100		
72	23.9	18.2	27.2





#35
Carbon Tetrachloride
Concen: 0.070 ppbv m
RT: 3.758 min Scan# 1135
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

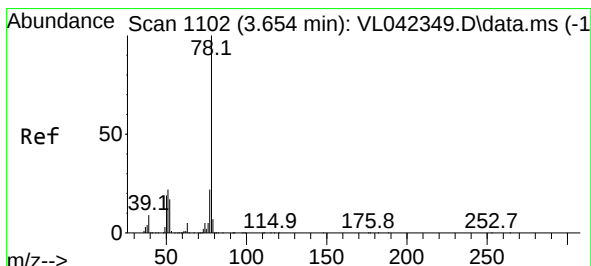
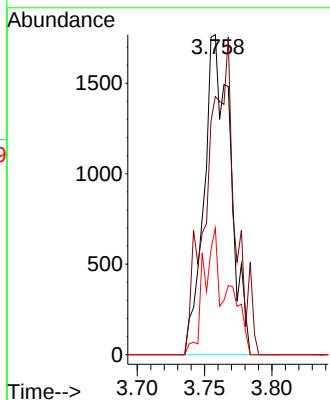
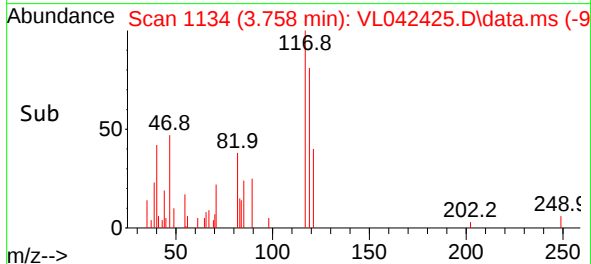
Instrument : MSVOA_L
ClientSampleId : IA-B2-4-3242025



Tgt Ion:117 Resp: 2400
Ion Ratio Lower Upper
117 100
119 80.7 80.5 120.7
121 39.6 24.2 36.2

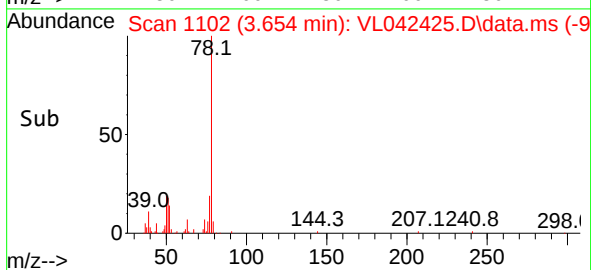
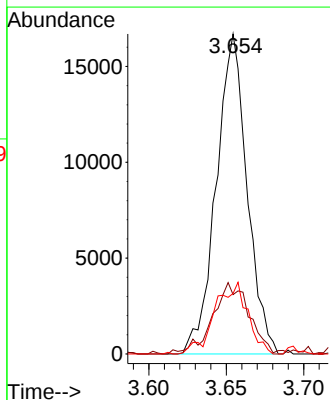
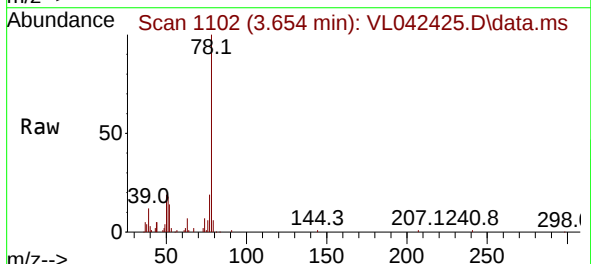
Manual Integrations
APPROVED

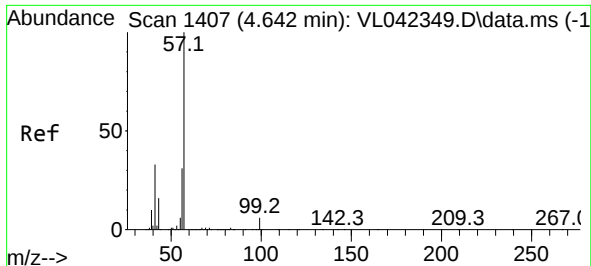
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025



#36
Benzene
Concen: 0.562 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

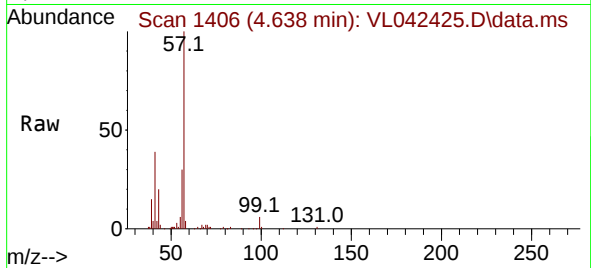
Tgt Ion: 78 Resp: 23147
Ion Ratio Lower Upper
78 100
77 17.7 17.4 26.0
50 18.9 15.5 23.3





#44
2,2,4-Trimethylpentane
Concen: 1.186 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

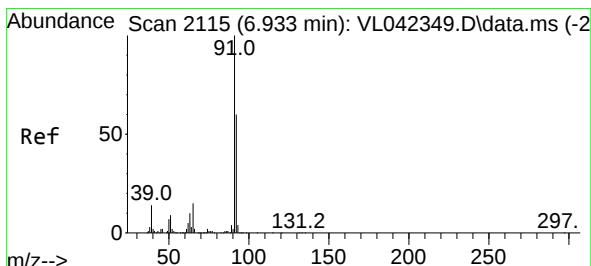
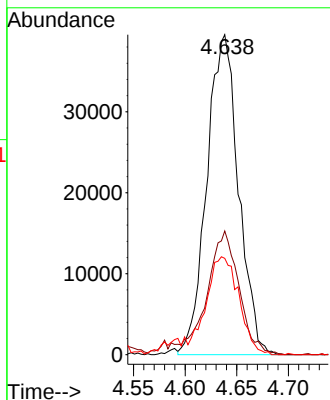
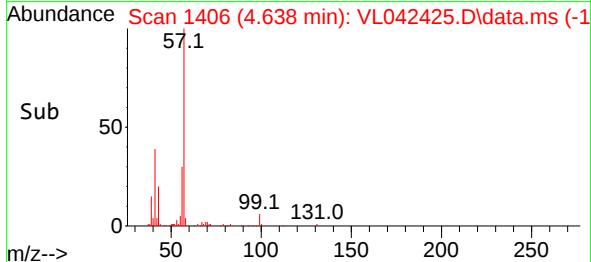
Instrument : MSVOA_L
ClientSampleId : IA-B2-4-3242025



Tgt Ion: 57 Resp: 8439
Ion Ratio Lower Upper
57 100
41 40.9 27.2 40.8
56 35.2 25.7 38.5

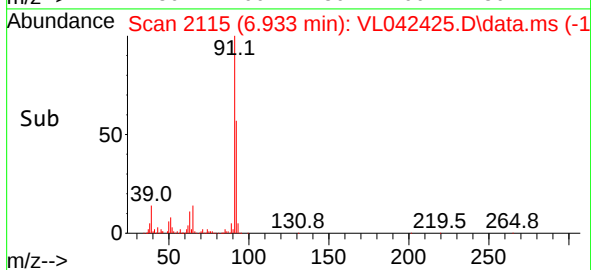
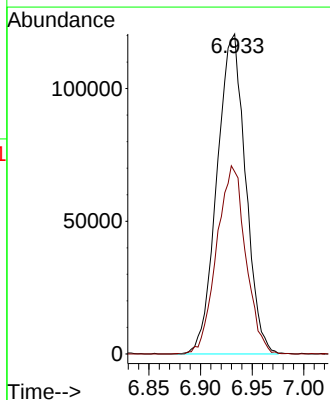
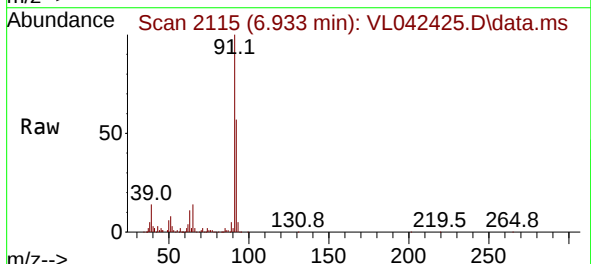
Manual Integrations
APPROVED

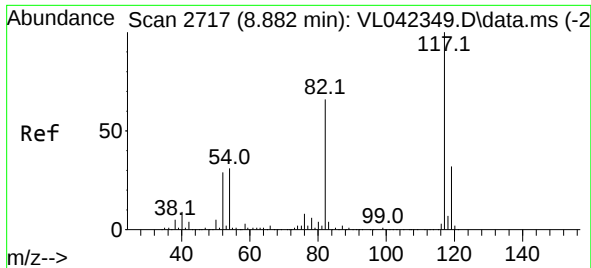
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025



#53
Toluene
Concen: 4.695 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 91 Resp: 232100
Ion Ratio Lower Upper
91 100
92 59.8 48.2 72.4





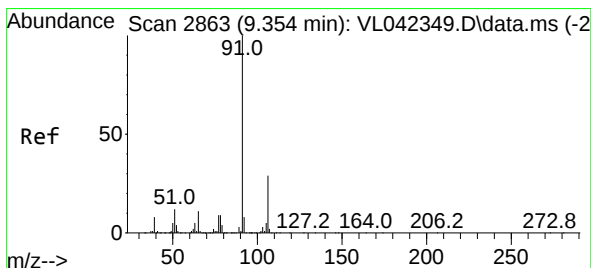
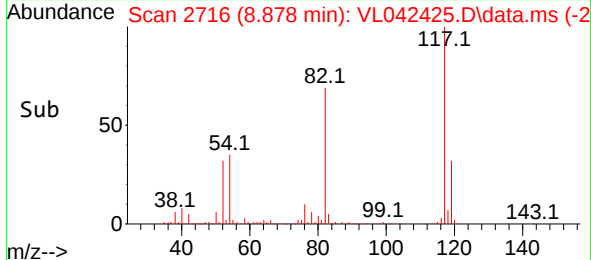
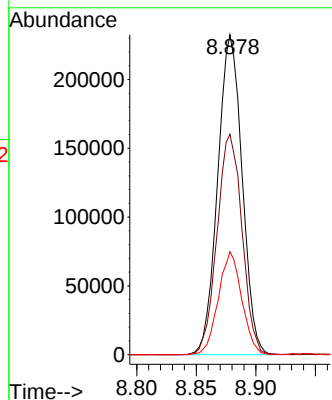
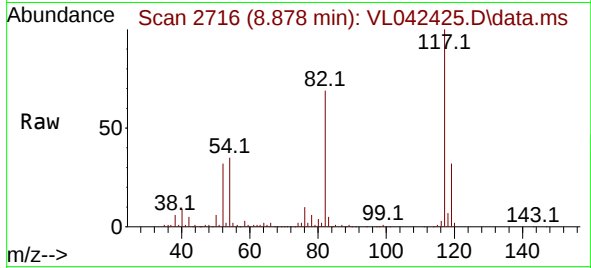
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2717
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-3242025

Tgt Ion:117 Resp: 33069
Ion Ratio Lower Upper
117 100
82 70.5 57.8 86.6
119 31.0 25.2 37.8

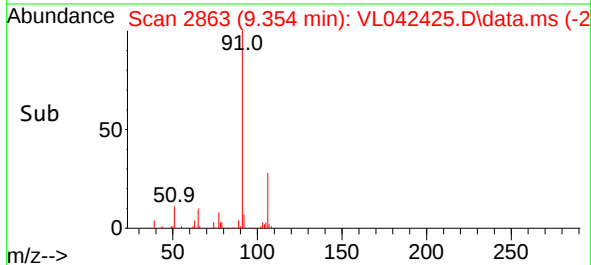
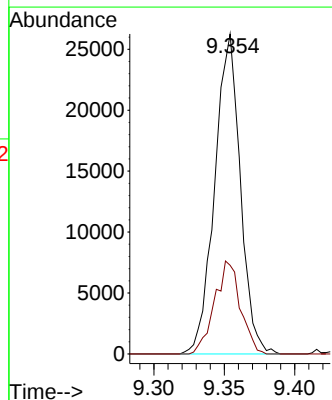
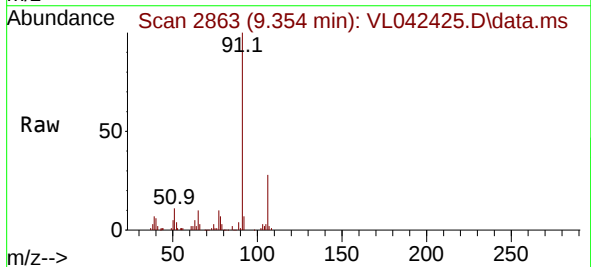
Manual Integrations
APPROVED

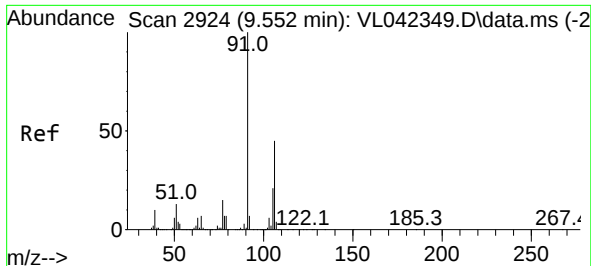
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025



#58
Ethyl Benzene
Concen: 0.508 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 91 Resp: 33267
Ion Ratio Lower Upper
91 100
106 27.7 23.0 34.4





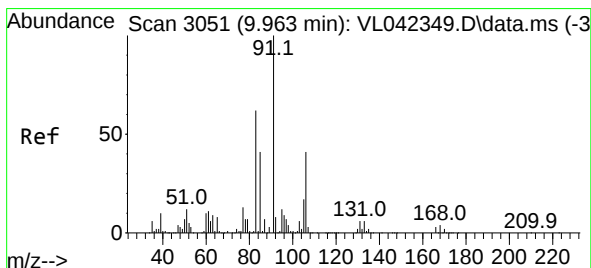
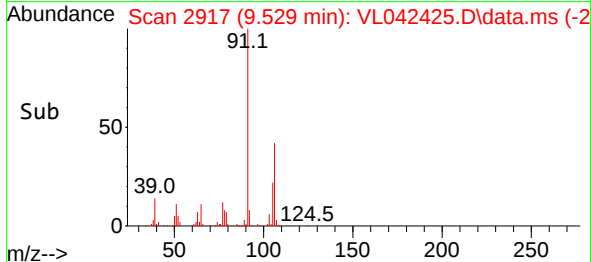
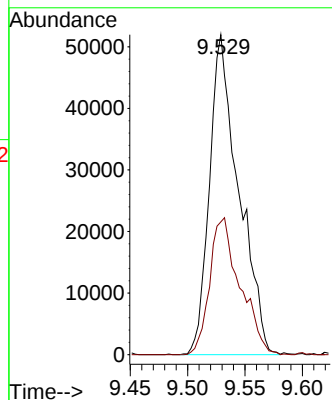
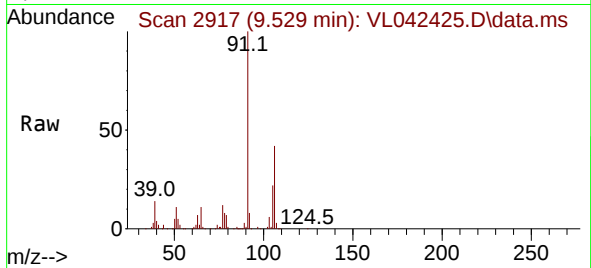
#59
m/p-Xylene
Concen: 1.750 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Instrument : MSVOA_L
ClientSampleId : IA-B2-4-3242025

Tgt Ion: 91 Resp: 9234
Ion Ratio Lower Upper
91 100
106 44.3 35.4 53.2

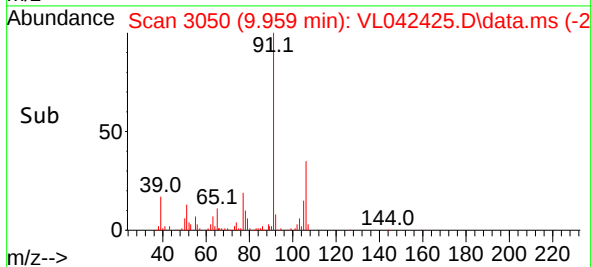
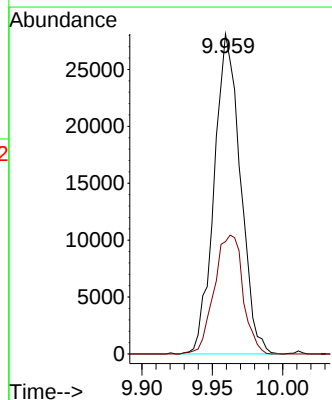
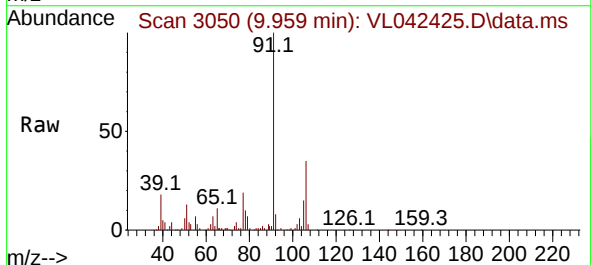
Manual Integrations
APPROVED

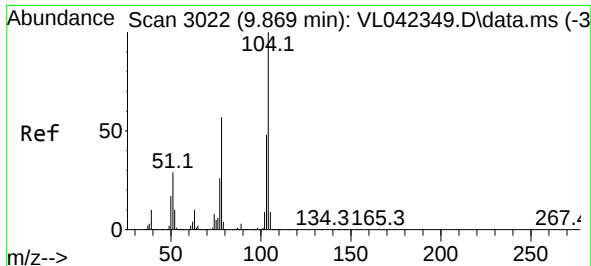
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025



#60
o-Xylene
Concen: 0.688 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Tgt Ion: 91 Resp: 36544
Ion Ratio Lower Upper
91 100
106 40.5 21.1 63.4





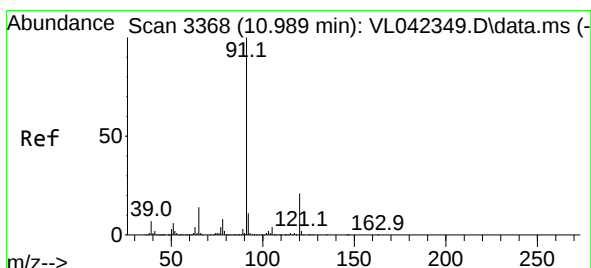
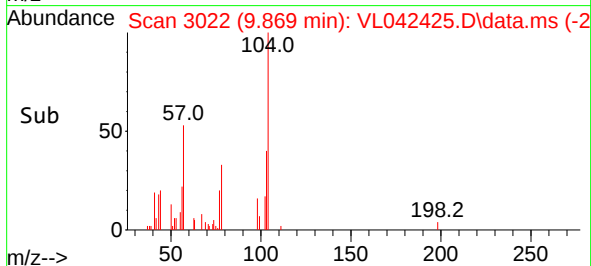
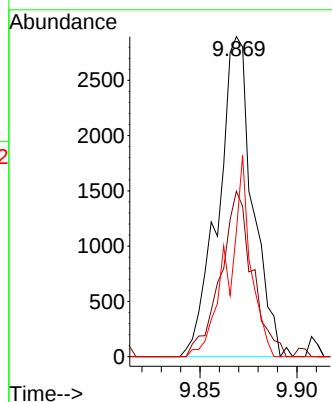
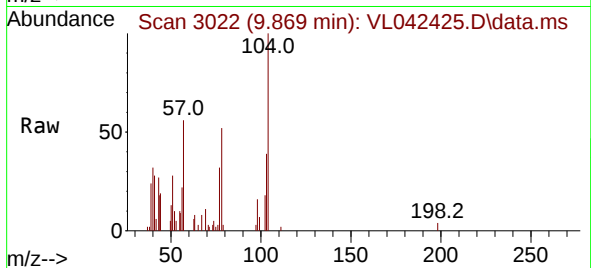
#61
Styrene
Concen: 0.141 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

Instrument : MSVOA_L
ClientSampleId : IA-B2-4-3242025

Tgt Ion:104 Resp: 358
Ion Ratio Lower Upper
104 100
78 48.8 44.6 66.8
103 41.0 37.4 56.0

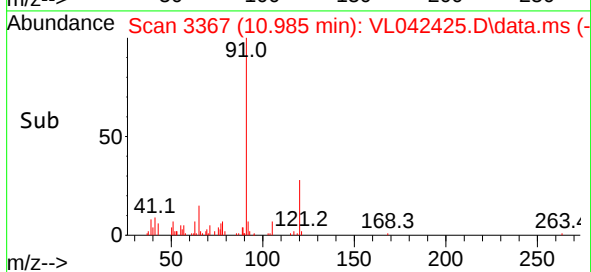
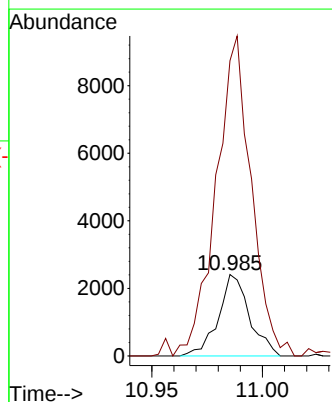
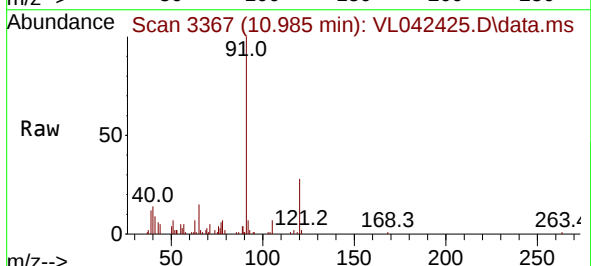
Manual Integrations
APPROVED

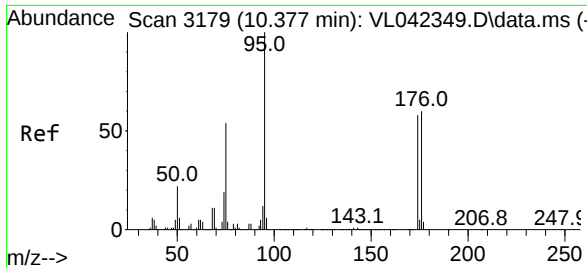
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025



#64
n-propylbenzene
Concen: 0.120 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

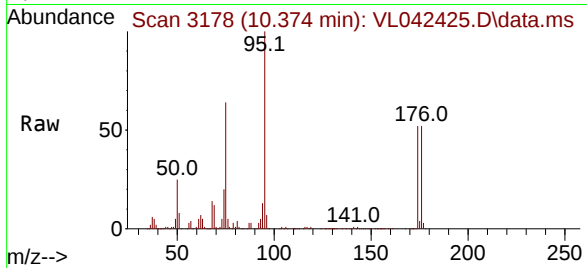
Tgt Ion:120 Resp: 2357
Ion Ratio Lower Upper
120 100
91 452.8 392.4 588.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.401 ppbv
RT: 10.374 min Scan# 3179
Delta R.T. -0.003 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34

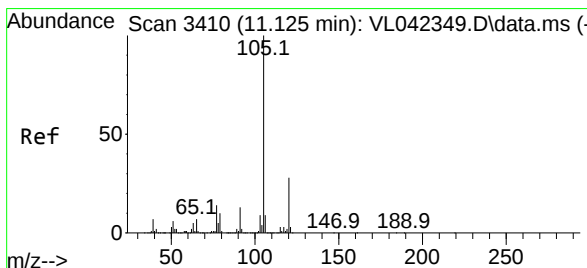
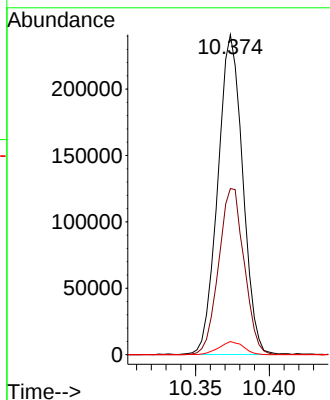
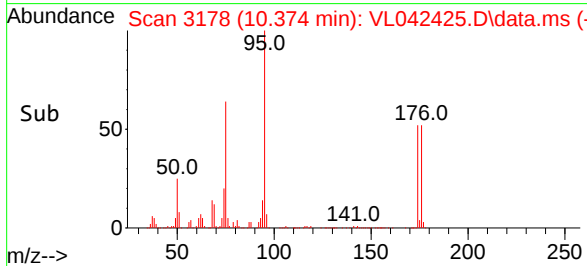
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-3242025



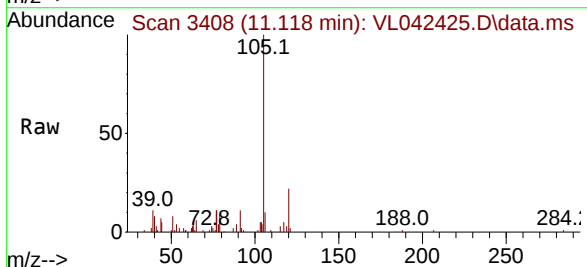
Tgt Ion: 95 Resp: 282648
Ion Ratio Lower Upper
95 100
174 53.4 48.5 72.7
175 4.1 3.7 5.5

Manual Integrations
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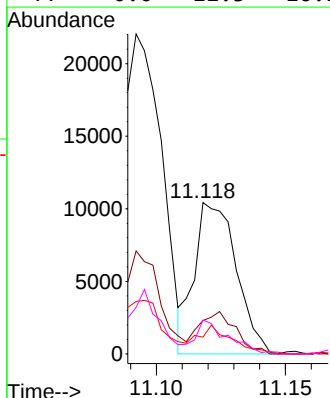
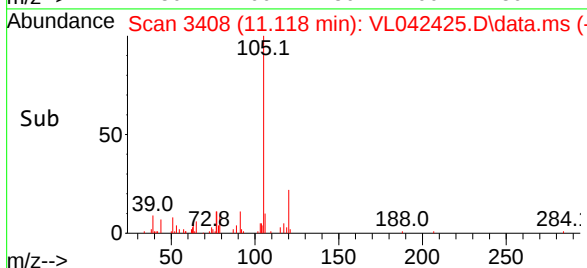
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

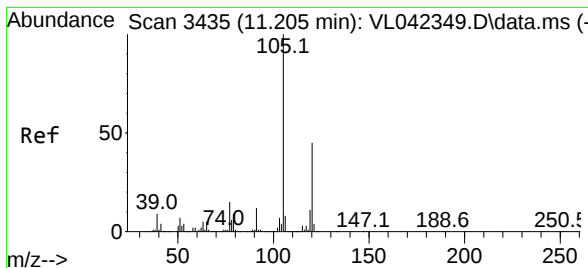


#72
4-Ethyltoluene
Concen: 0.182 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.007 min
Lab File: VL042425.D
Acq: 28 Apr 2025 14:34



Tgt Ion:105 Resp: 11801
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 0.0 10.4 15.6#
77 0.0 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 0.186 ppbv

RT: 11.202 min Scan# 3435

Delta R.T. -0.003 min

Lab File: VL042425.D

Acq: 28 Apr 2025 14:34

Instrument :

MSVOA_L

ClientSampleId :

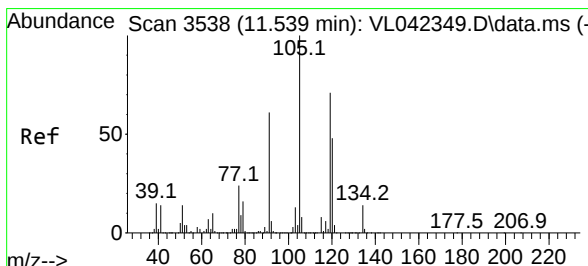
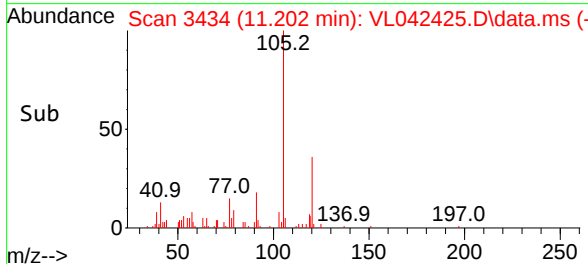
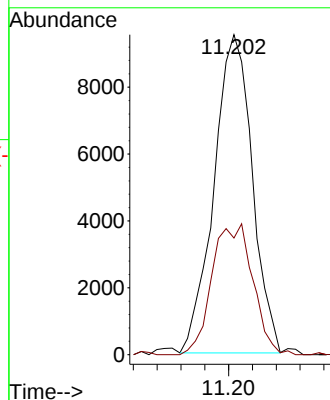
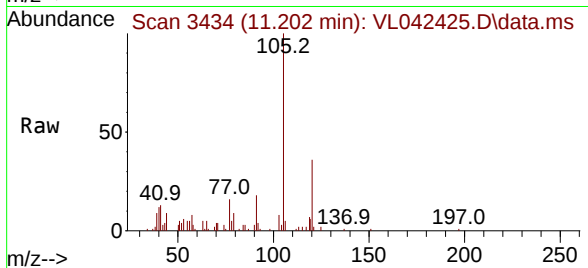
IA-B2-4-3242025

Tgt Ion:105 Resp: 1064
 Ion Ratio Lower Upper
 105 100
 120 36.6 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025
 Supervised By :Mahesh Dadoda 04/30/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.512 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042425.D

Acq: 28 Apr 2025 14:34

Tgt Ion:105 Resp: 34307
 Ion Ratio Lower Upper
 105 100
 120 44.0 38.1 57.1
 91 13.0 48.8 73.2#
 77 18.4 19.0 28.4#

