

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042814.D
 Acq On : 04 Aug 2025 20:15
 Operator : SY/MD
 Sample : Q2750-04DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-5DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
 Supervised By :Mahesh Dadoda 08/06/2025

Quant Time: Aug 05 01:12:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 5 01:12:12 2025

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	161216	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	428986	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	375205	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 323539 10.888 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 108.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	12445	0.584	ppbv	89
3) Chlorodifluoromethane	1.473	51	1470625	52.963	ppbv #	87
4) Chloromethane	1.531	50	5419	0.628	ppbv	89
9) Propene	1.486	41	130757m	12.957	ppbv	
11) Trichlorofluoromethane	1.878	101	4709	0.214	ppbv	90
13) Ethanol	1.729	45	4021580	5471.839	ppbv	92
15) Acetone	1.835	43	2026354	91.025	ppbv #	84
19) Isopropyl Alcohol	1.984	45	24131679	2039.875	ppbv #	38
20) Methylene Chloride	2.062	84	52828	7.530	ppbv	94
25) Ethyl Acetate	2.842	43	204967m	4.160	ppbv	
26) Hexane	2.826	57	111667	5.166	ppbv	84
27) Carbon Disulfide	2.146	76	47924	2.590	ppbv #	66
29) Chloroform	2.852	83	17868	0.535	ppbv	98
34) 2-Butanone	2.567	43	31136	1.025	ppbv	99
35) Carbon Tetrachloride	3.768	117	2101m	0.066	ppbv	
36) Benzene	3.658	78	10752	0.264	ppbv #	93
43) Methyl Methacrylate	4.878	69	1703m	0.118	ppbv	
53) Toluene	6.933	91	27249	0.624	ppbv	97
59) m/p-Xylene	9.532	91	8838m	0.187	ppbv	
61) Styrene	9.872	104	2754m	0.138	ppbv	
69) p-Isopropyltoluene	11.924	119	38819	0.540	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	12795m	0.252	ppbv	
79) Naphthalene	13.513	128	2069	0.471	ppbv #	87

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

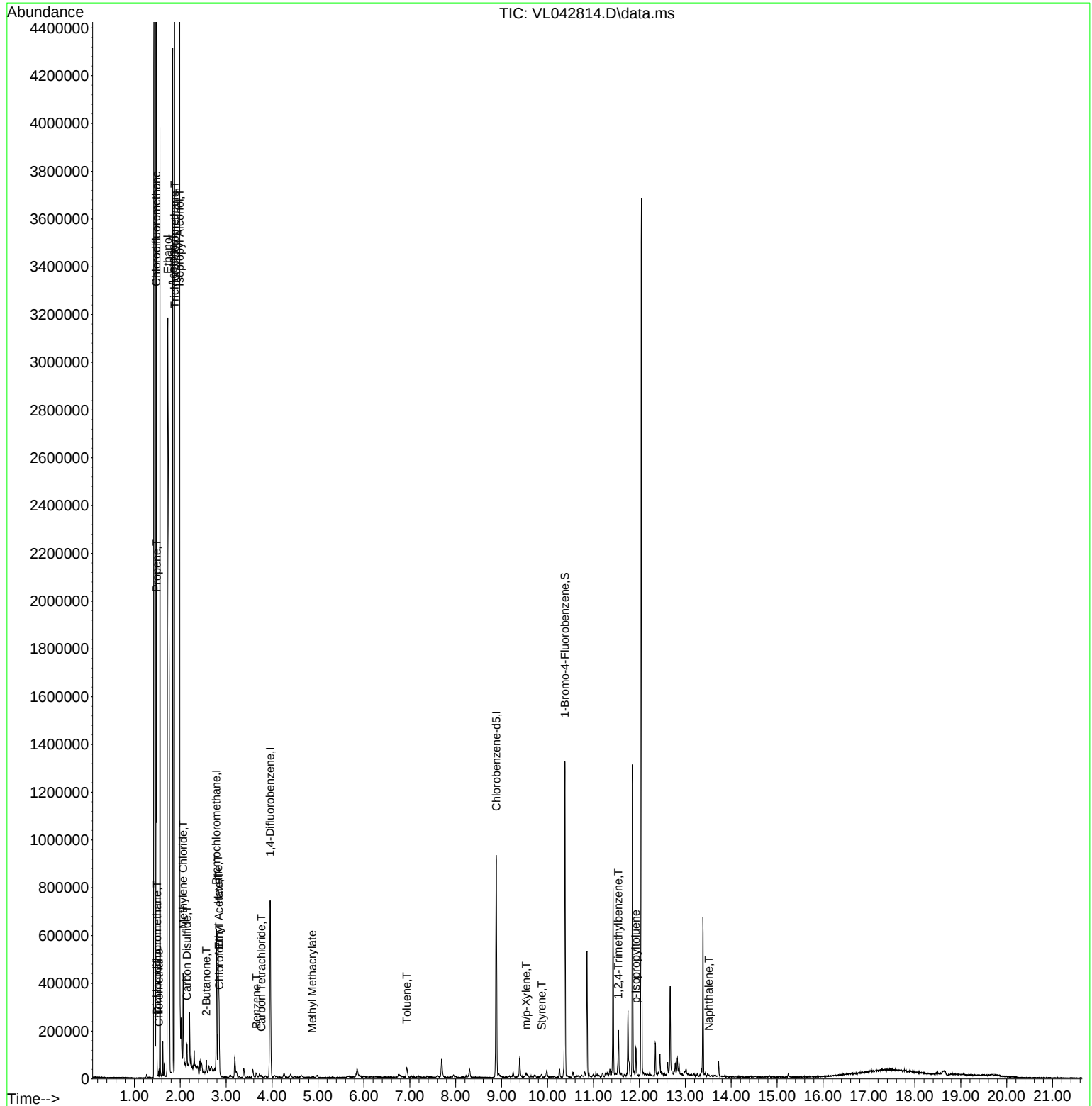
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042814.D
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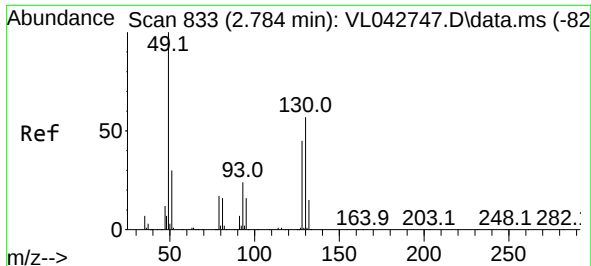
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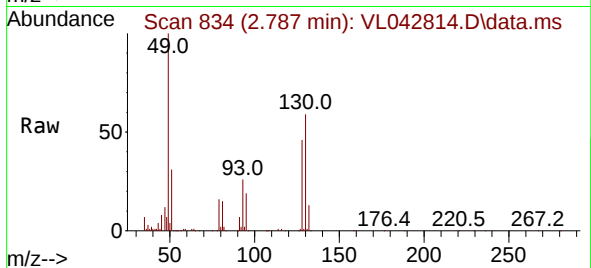
Quant Time: Aug 05 01:12:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

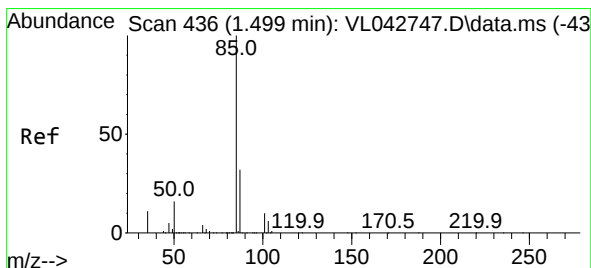
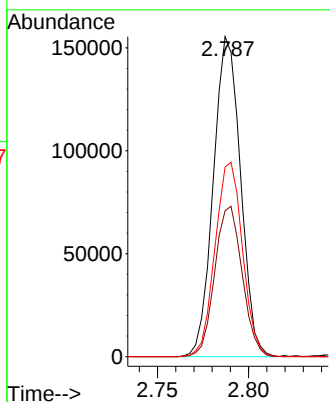
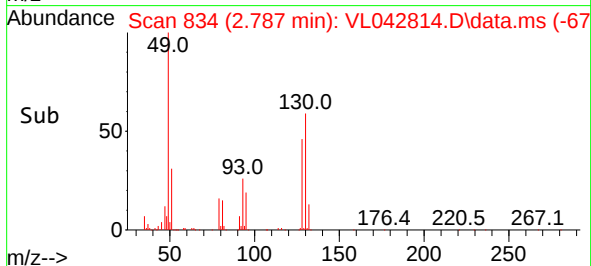
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP



Tgt Ion: 49 Resp: 161210
Ion Ratio Lower Upper
49 100
128 47.3 23.6 71.0
130 61.4 30.3 90.8

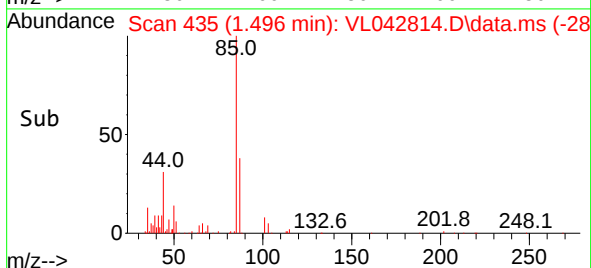
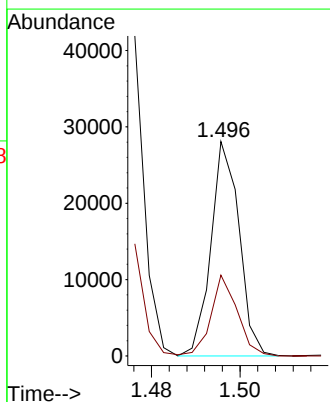
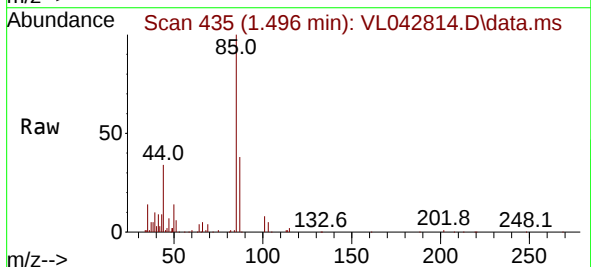
Manual Integrations
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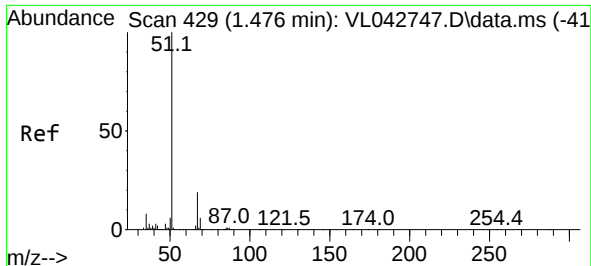
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#2
Dichlorodifluoromethane
Concen: 0.584 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

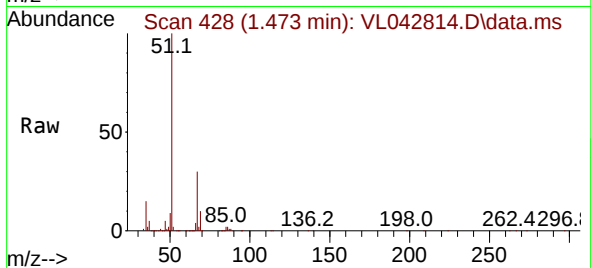
Tgt Ion: 85 Resp: 12445
Ion Ratio Lower Upper
85 100
87 37.7 25.4 38.2





#3
Chlorodifluoromethane
Concen: 52.963 ppbv
RT: 1.473 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

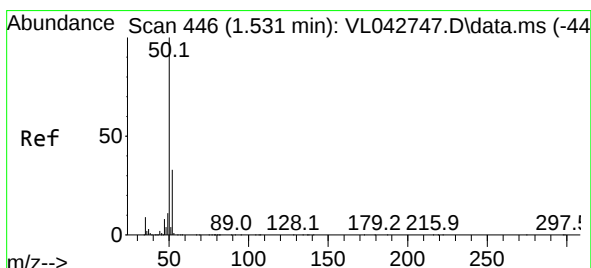
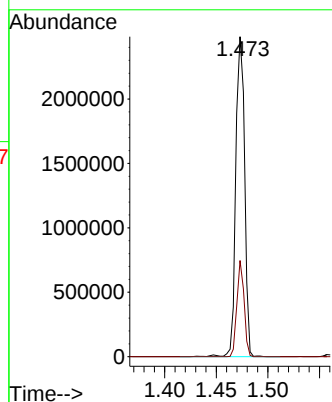
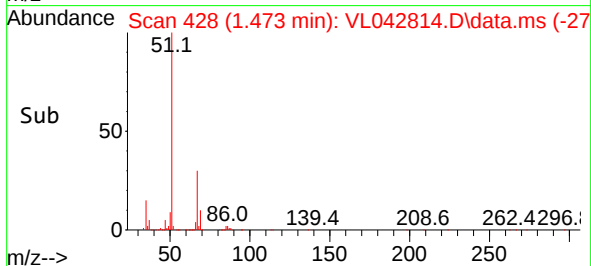
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP



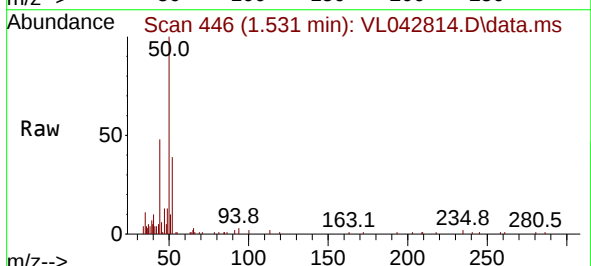
Tgt Ion: 51 Resp: 1470629
Ion Ratio Lower Upper
51 100
67 24.5 15.0 22.6

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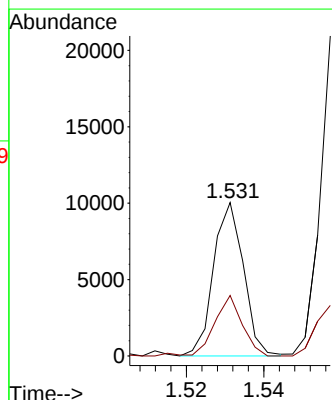
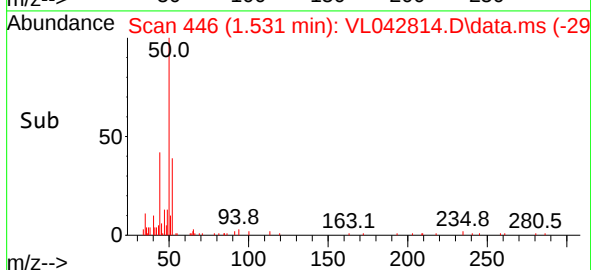
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

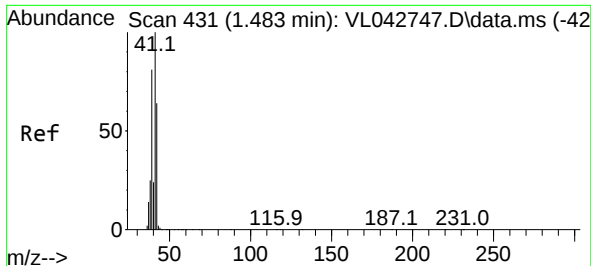


#4
Chloromethane
Concen: 0.628 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15



Tgt Ion: 50 Resp: 5419
Ion Ratio Lower Upper
50 100
52 39.4 26.6 40.0





#9

Propene

Concen: 12.957 ppbv m

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042814.D

Acq: 04 Aug 2025 20:15

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-5DUP

Tgt Ion: 41 Resp: 13075

Ion Ratio Lower Upper

41 100

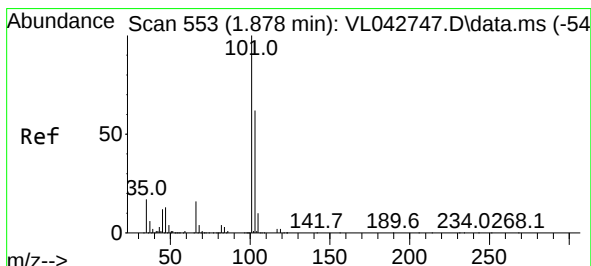
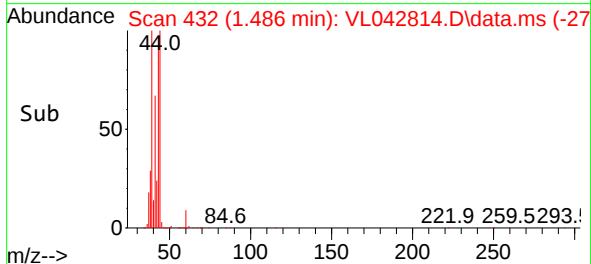
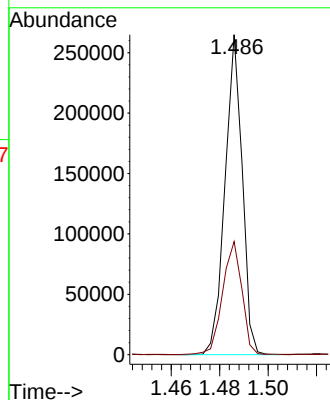
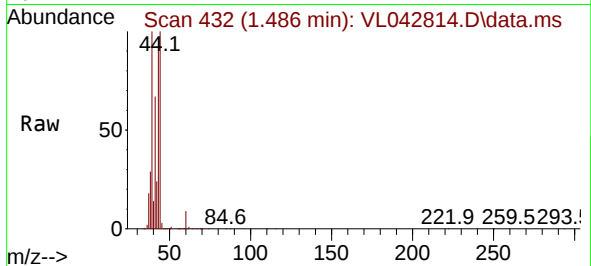
42 230.3 53.2 79.8

Manual Integrations

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#11

Trichlorofluoromethane

Concen: 0.214 ppbv

RT: 1.878 min Scan# 553

Delta R.T. 0.000 min

Lab File: VL042814.D

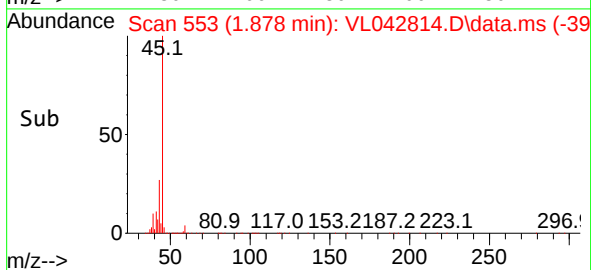
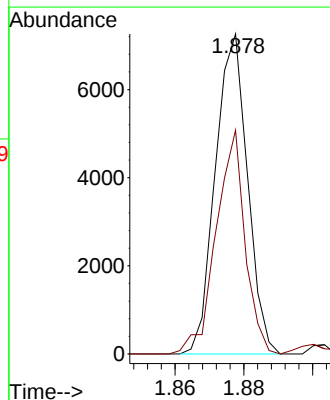
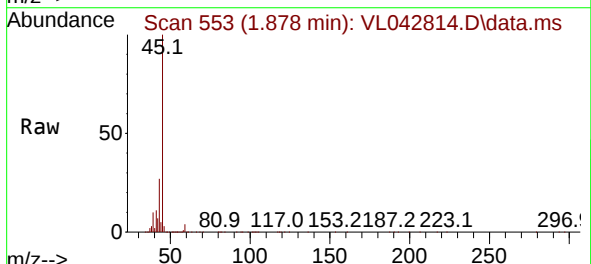
Acq: 04 Aug 2025 20:15

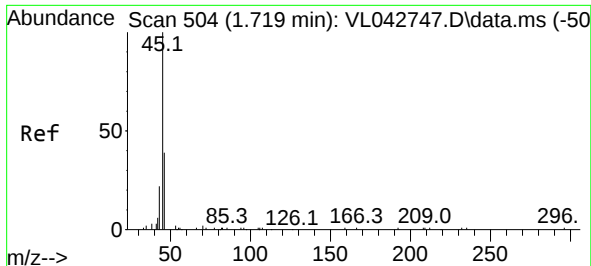
Tgt Ion:101 Resp: 4709

Ion Ratio Lower Upper

101 100

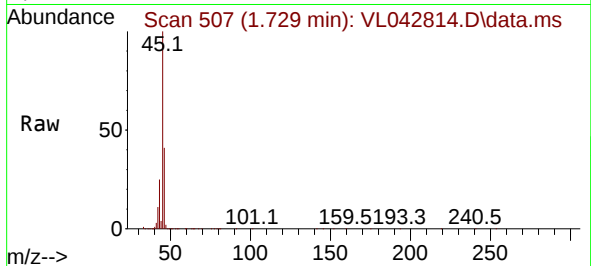
103 70.0 49.6 74.4





#13
Ethanol
Concen: 5471.839 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.010 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

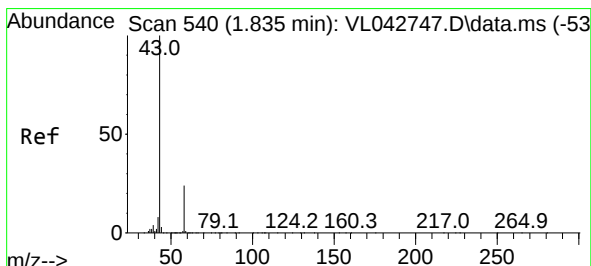
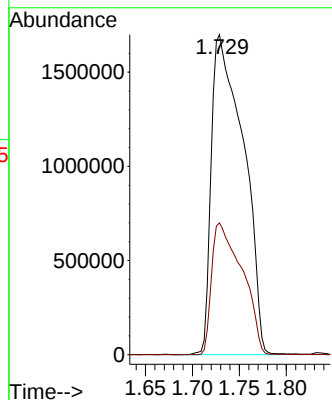
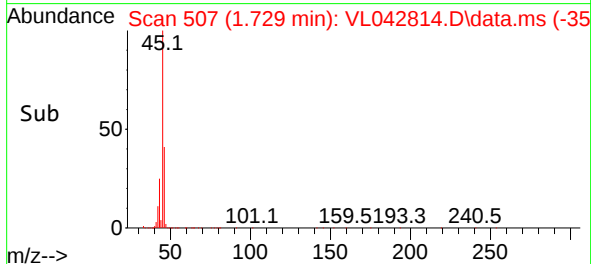
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP



Tgt Ion: 45 Resp: 4021580
Ion Ratio Lower Upper
45 100
46 39.4 17.8 71.4

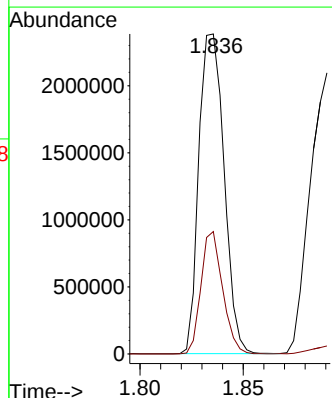
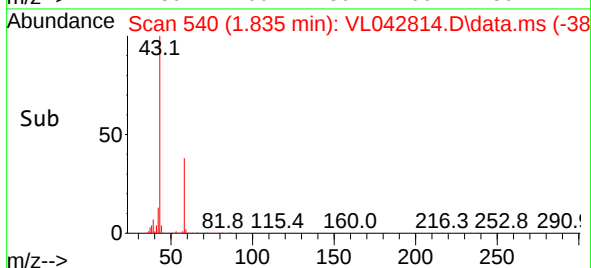
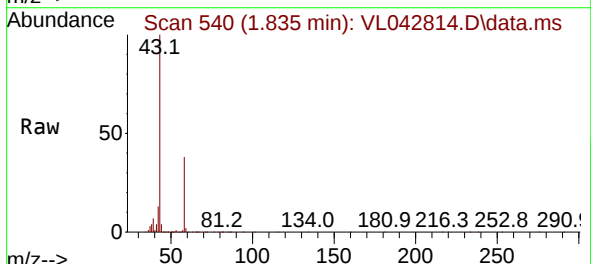
Manual Integrations
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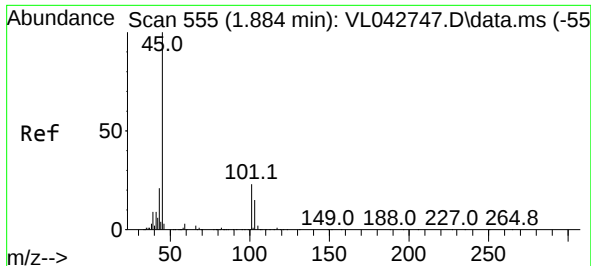
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#15
Acetone
Concen: 91.025 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

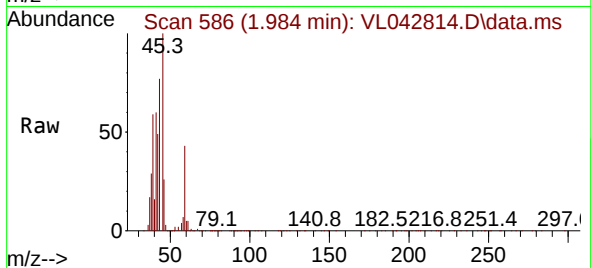
Tgt Ion: 43 Resp: 2026354
Ion Ratio Lower Upper
43 100
58 32.9 19.8 29.8





#19
Isopropyl Alcohol
Concen: 2039.875 ppbv
RT: 1.984 min Scan# 511
Delta R.T. 0.100 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

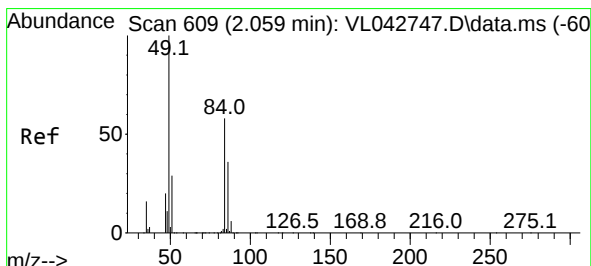
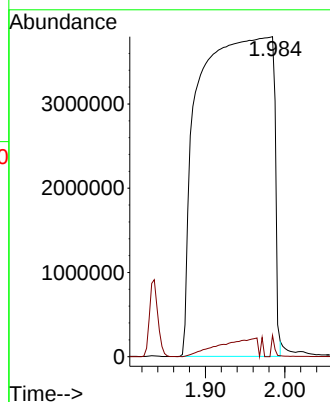
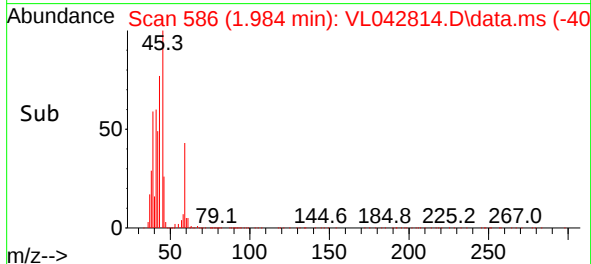
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP



Tgt Ion: 45 Resp: 24131679
Ion Ratio Lower Upper
45 100
58 0.4 30.0 45.0

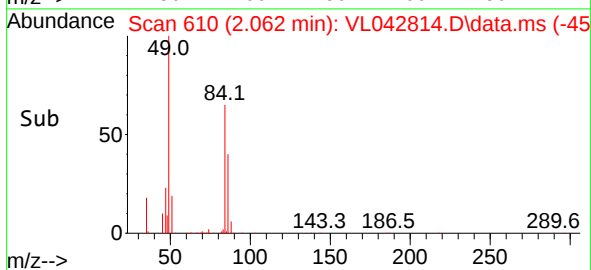
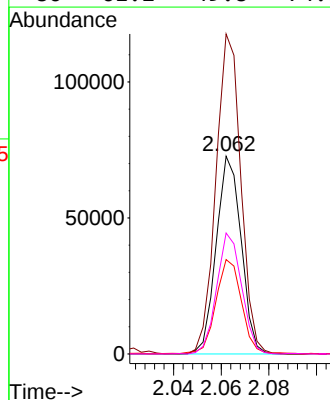
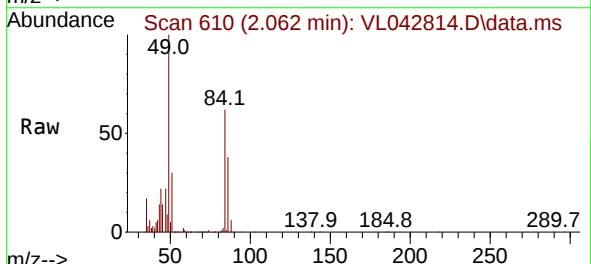
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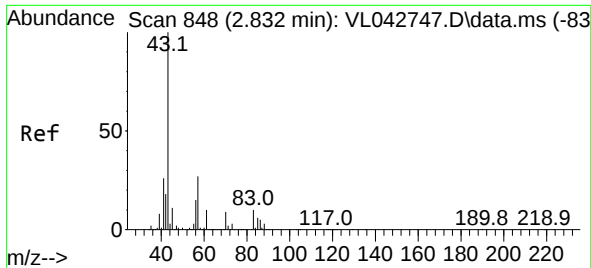
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#20
Methylene Chloride
Concen: 7.530 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

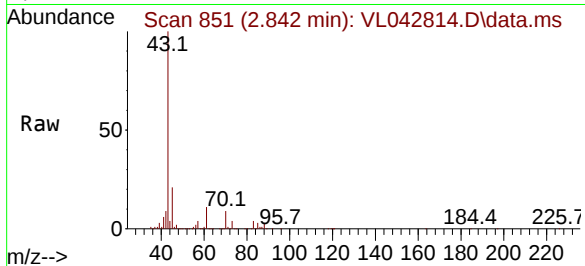
Tgt Ion: 84 Resp: 52828
Ion Ratio Lower Upper
84 100
49 161.7 138.6 208.0
51 47.6 40.6 61.0
86 61.2 49.8 74.8





#25
Ethyl Acetate
Concen: 4.160 ppbv m
RT: 2.842 min Scan# 848
Delta R.T. 0.010 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

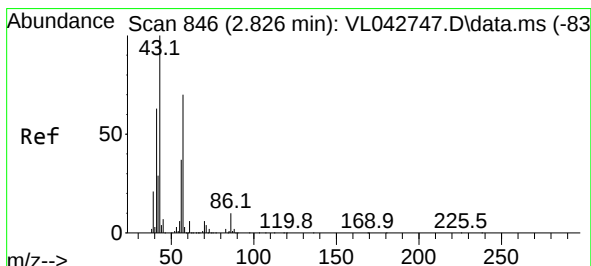
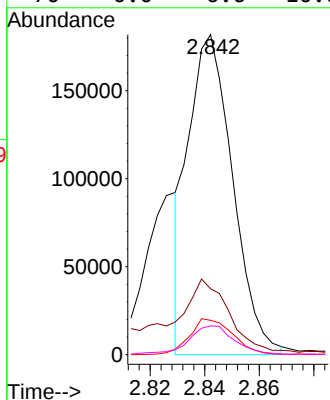
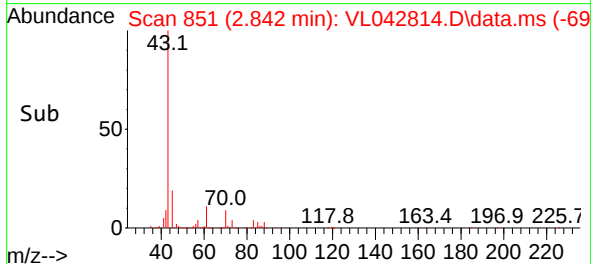
Instrument :
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WONDER IA-5DUP



Tgt Ion: 43 Resp: 204967
Ion Ratio Lower Upper
43 100
45 0.0 7.8 11.6
61 0.0 6.7 10.1
70 0.0 6.6 10.0#

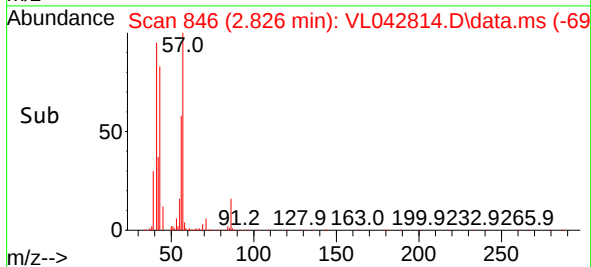
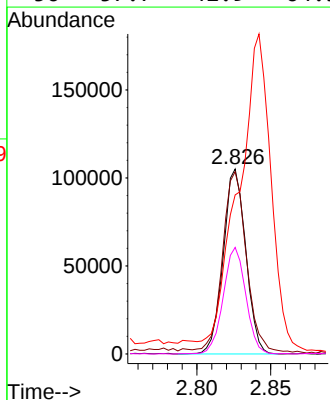
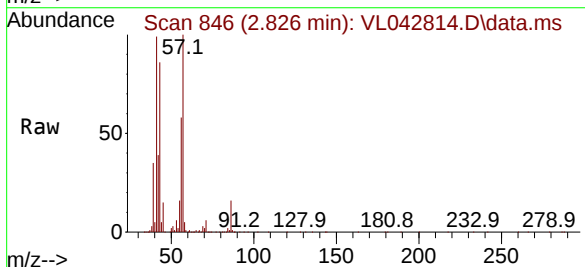
Manual Integrations
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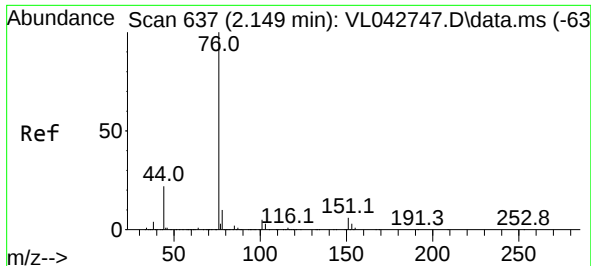
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#26
Hexane
Concen: 5.166 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

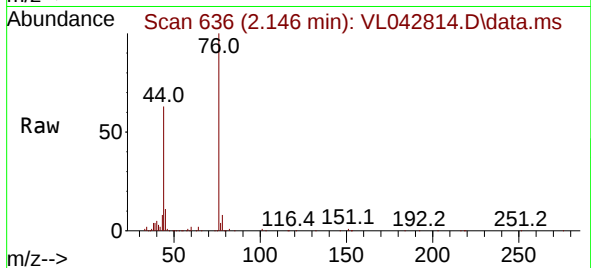
Tgt Ion: 57 Resp: 111667
Ion Ratio Lower Upper
57 100
41 110.7 75.4 113.2
43 261.3 185.0 277.6
56 57.7 42.9 64.3





#27
Carbon Disulfide
Concen: 2.590 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

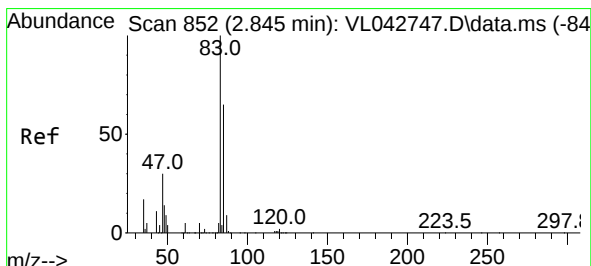
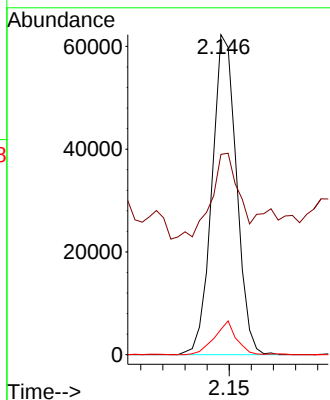
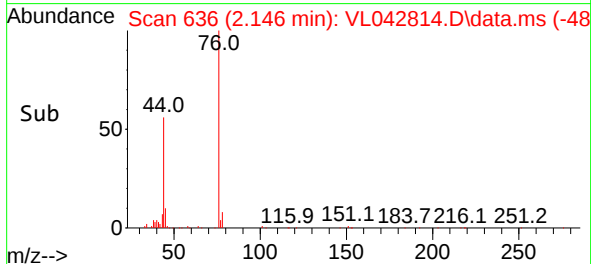
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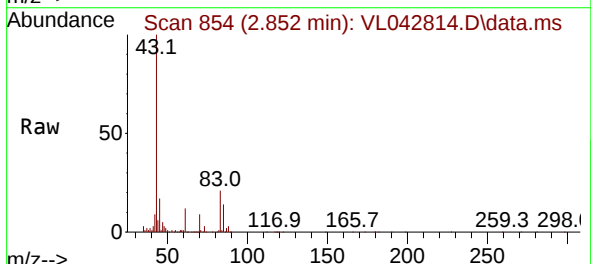
Tgt Ion: 76 Resp: 47924
Ion Ratio Lower Upper
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44 0.0 19.3 28.9
78 9.9 9.9 14.9

Manual Integrations
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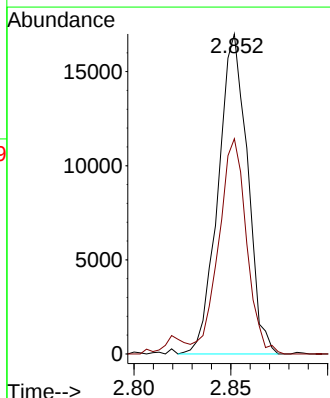
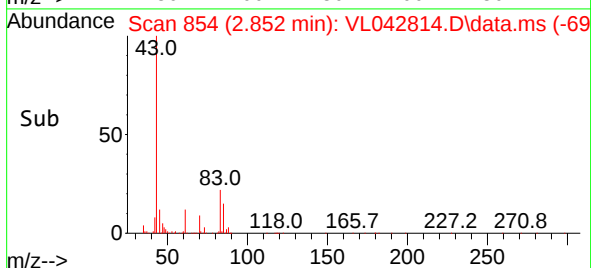
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

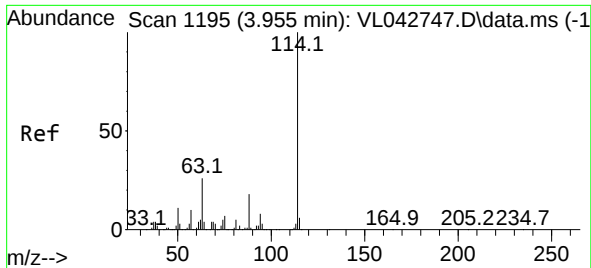


#29
Chloroform
Concen: 0.535 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.007 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15



Tgt Ion: 83 Resp: 17868
Ion Ratio Lower Upper
83 100
85 66.6 52.2 78.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.003 min

Lab File: VL042814.D

Acq: 04 Aug 2025 20:15

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-5DUP

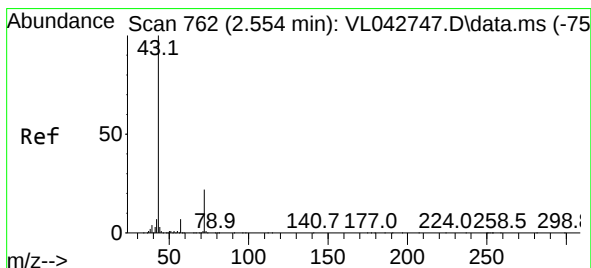
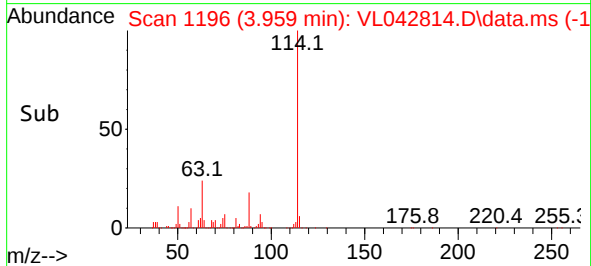
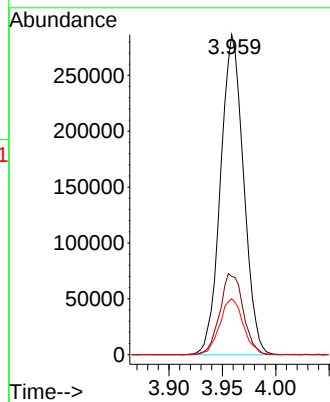
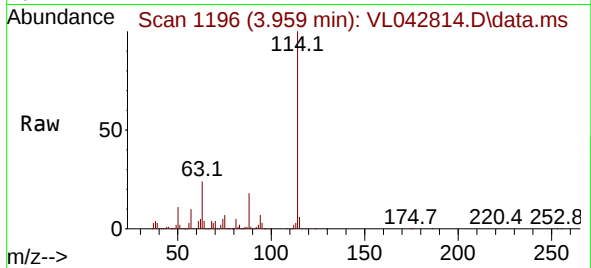
Tgt Ion:114 Resp: 428980
 Ion Ratio Lower Upper
 114 100
 63 25.8 20.5 30.7
 88 17.8 14.0 21.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#34

2-Butanone

Concen: 1.025 ppbv

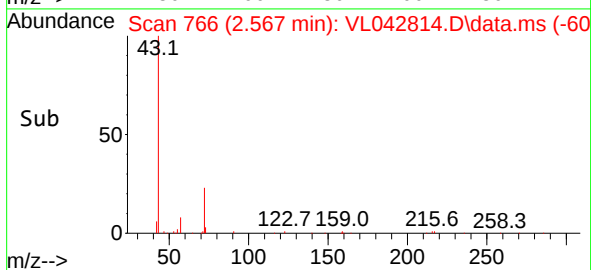
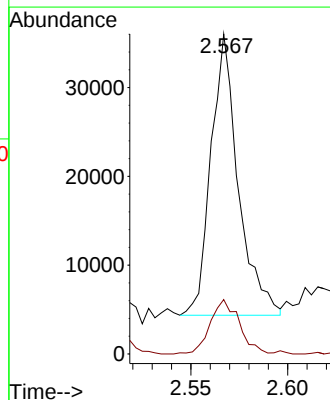
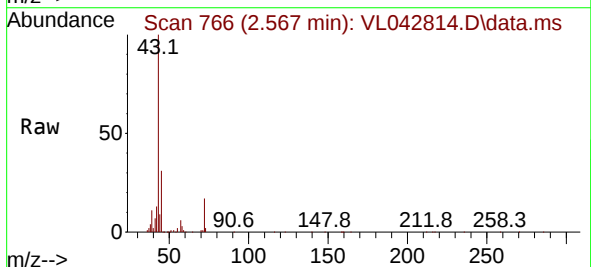
RT: 2.567 min Scan# 766

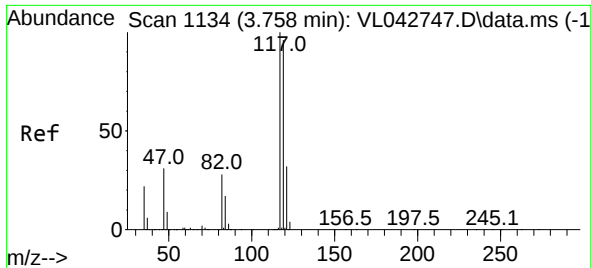
Delta R.T. 0.013 min

Lab File: VL042814.D

Acq: 04 Aug 2025 20:15

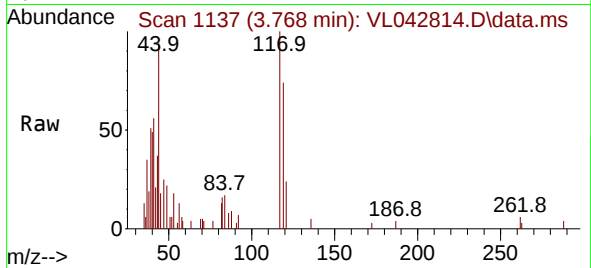
Tgt Ion: 43 Resp: 31136
 Ion Ratio Lower Upper
 43 100
 72 21.1 17.4 26.0





#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 3.768 min Scan# 1134
Delta R.T. 0.010 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

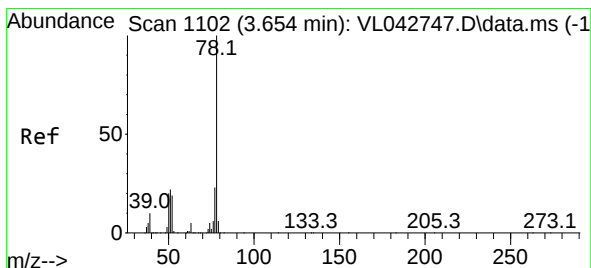
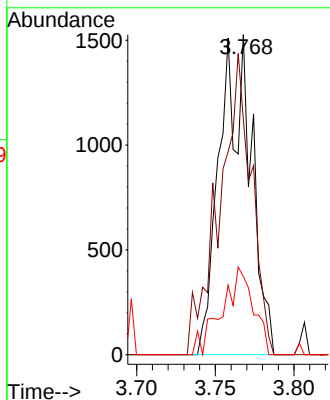
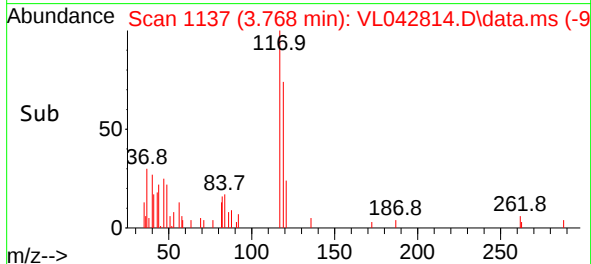
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP



Tgt Ion:117 Resp: 210
Ion Ratio Lower Upper
117 100
119 73.7 77.1 115.7
121 24.4 25.5 38.3

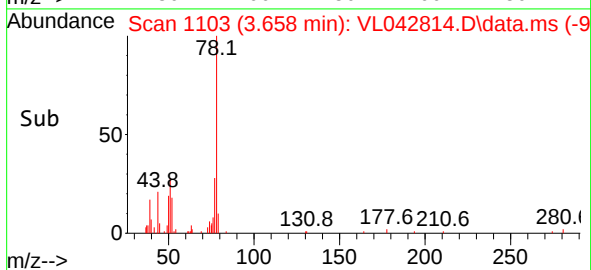
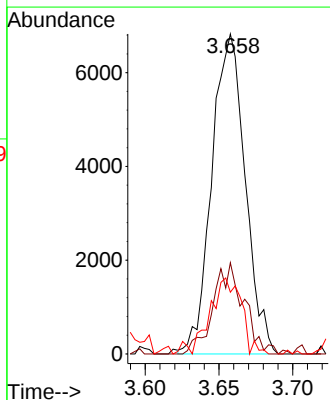
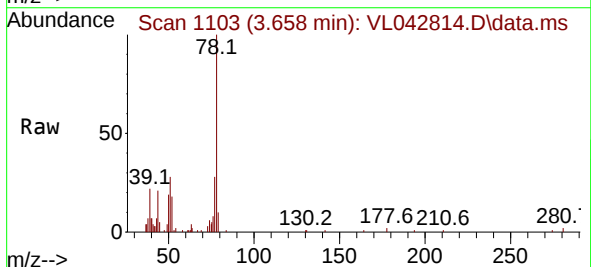
Manual Integrations
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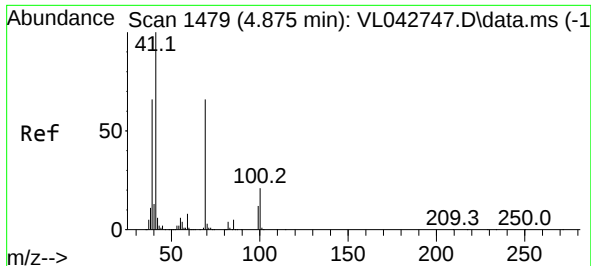
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#36
Benzene
Concen: 0.264 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

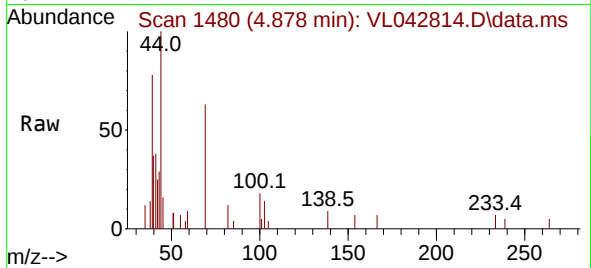
Tgt Ion: 78 Resp: 10752
Ion Ratio Lower Upper
78 100
77 28.5 18.5 27.7#
50 19.3 16.2 24.2





#43
Methyl Methacrylate
Concen: 0.118 ppbv m
RT: 4.878 min Scan# 1479
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

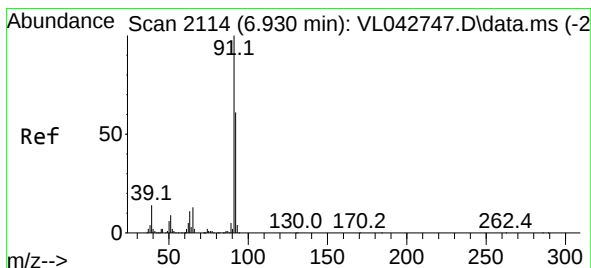
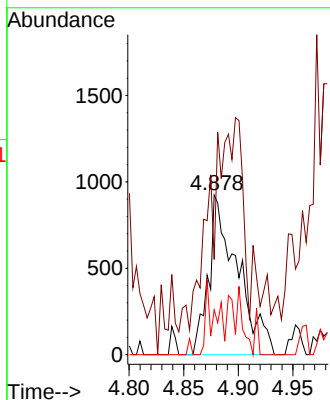
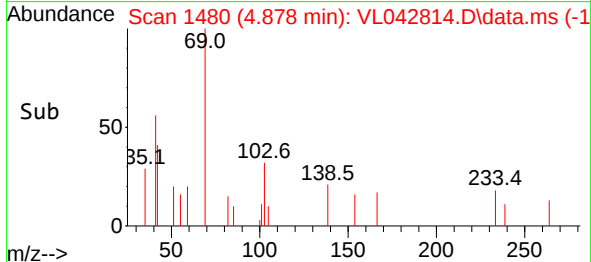
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP



Tgt Ion: 69 Resp: 170
Ion Ratio Lower Upper
69 100
41 0.0 125.7 188.5
100 37.5 28.6 42.8

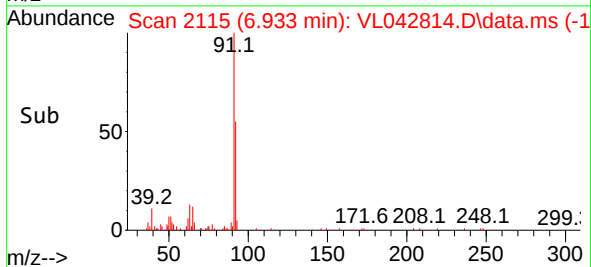
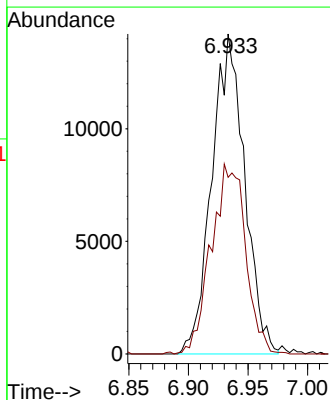
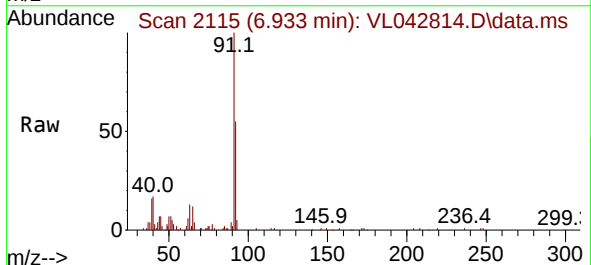
Manual Integrations
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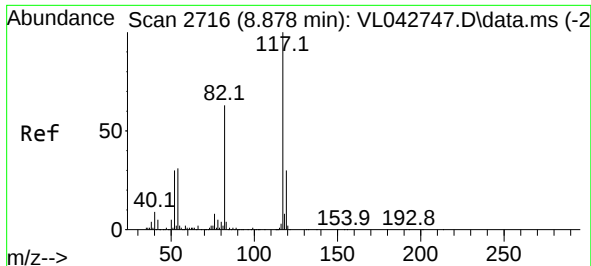
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#53
Toluene
Concen: 0.624 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

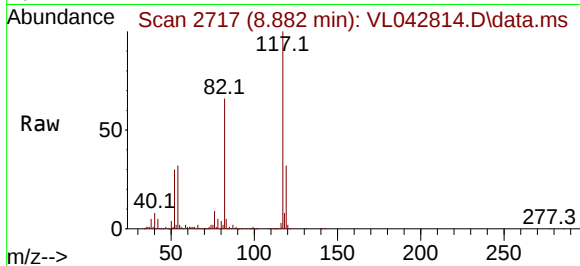
Tgt Ion: 91 Resp: 27249
Ion Ratio Lower Upper
91 100
92 62.0 48.0 72.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2117
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

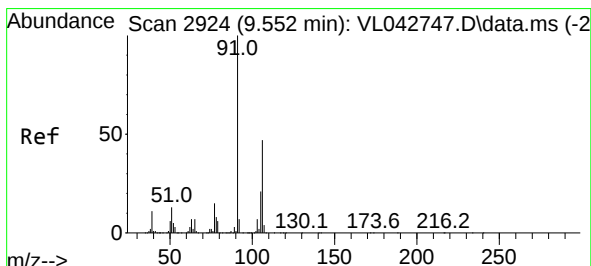
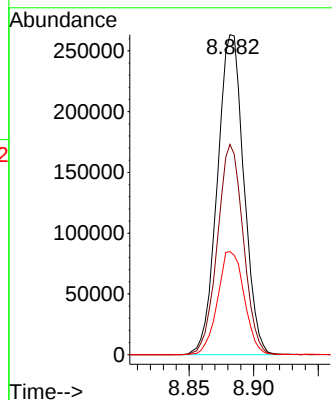
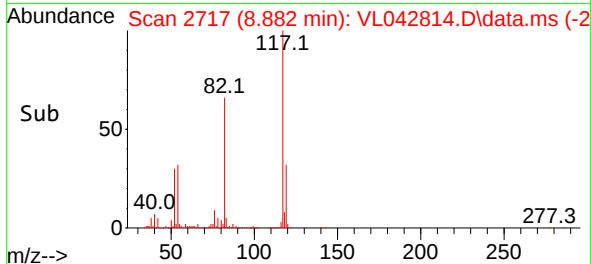
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP



Tgt Ion:117 Resp: 375208
Ion Ratio Lower Upper
117 100
82 64.4 53.3 79.9
119 32.6 25.8 38.6

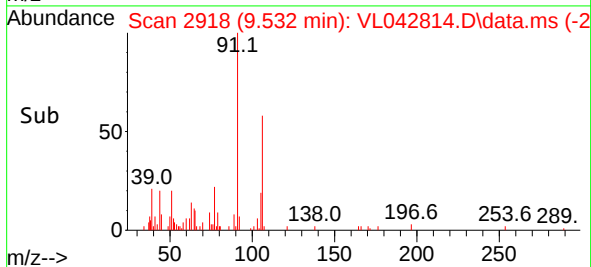
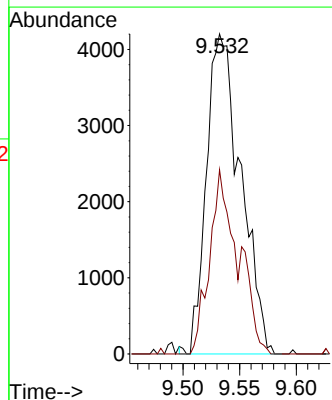
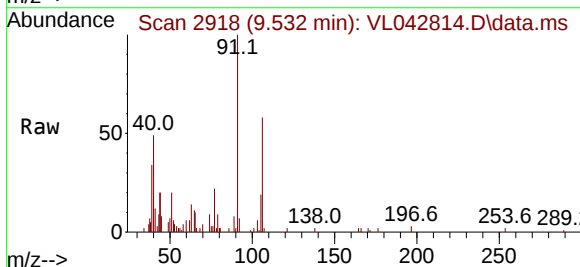
Manual Integrations
APPROVED

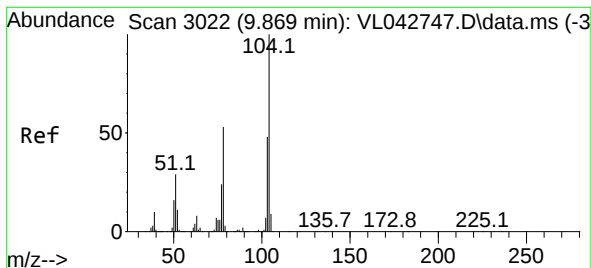
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#59
m/p-Xylene
Concen: 0.187 ppbv m
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 91 Resp: 8838
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#





#61

Styrene

Concen: 0.138 ppbv m

RT: 9.872 min Scan# 3022

Delta R.T. 0.003 min

Lab File: VL042814.D

Acq: 04 Aug 2025 20:15

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-5DUP

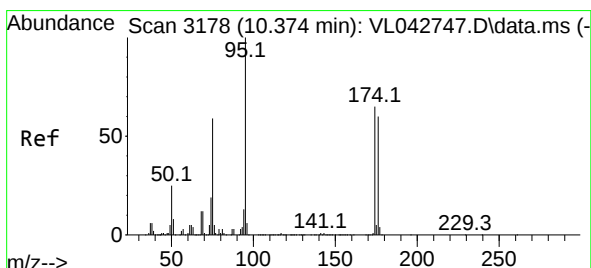
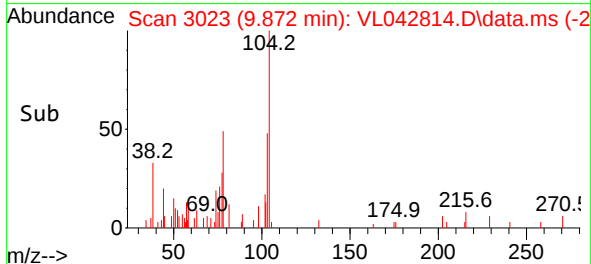
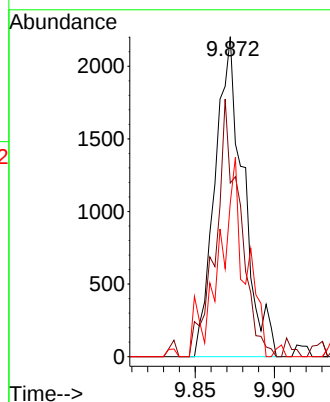
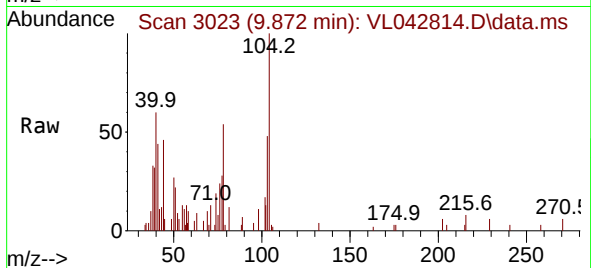
Tgt Ion:104 Resp: 2754

Ion	Ratio	Lower	Upper
104	100		
78	74.0	41.5	62.3
103	59.0	37.5	56.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.888 ppbv

RT: 10.377 min Scan# 3179

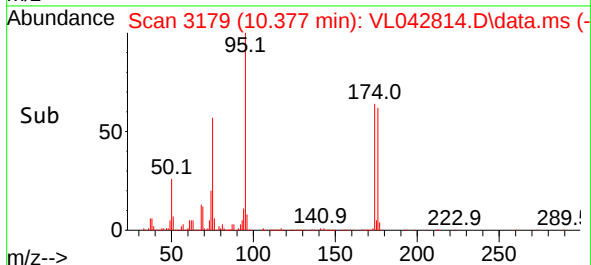
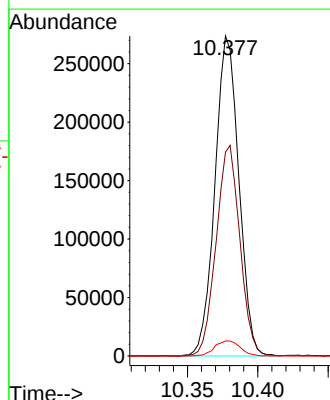
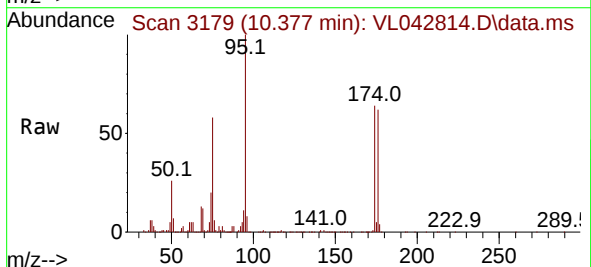
Delta R.T. 0.003 min

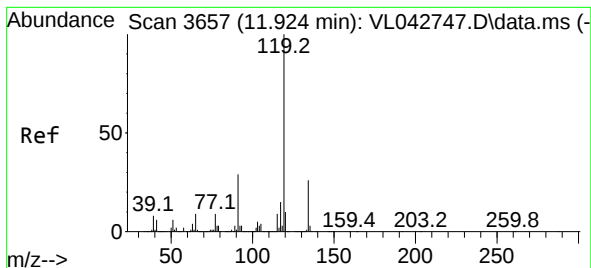
Lab File: VL042814.D

Acq: 04 Aug 2025 20:15

Tgt Ion: 95 Resp: 323539

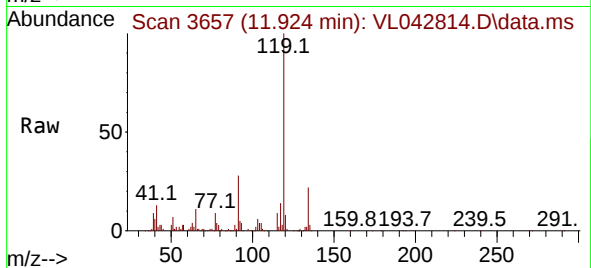
Ion	Ratio	Lower	Upper
95	100		
174	65.5	53.8	80.6
175	5.1	4.0	6.0





#69
p-Isopropyltoluene
Concen: 0.540 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

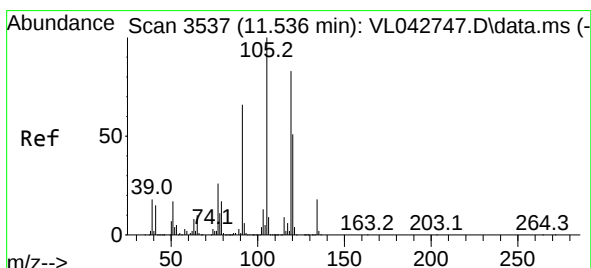
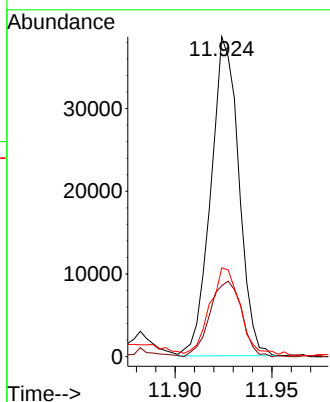
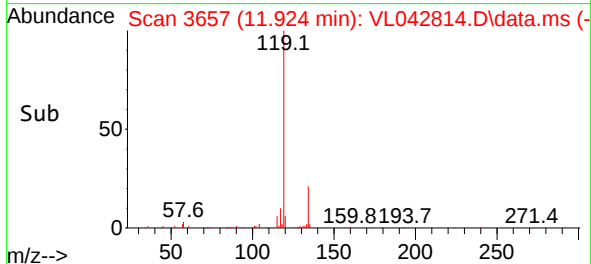
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP



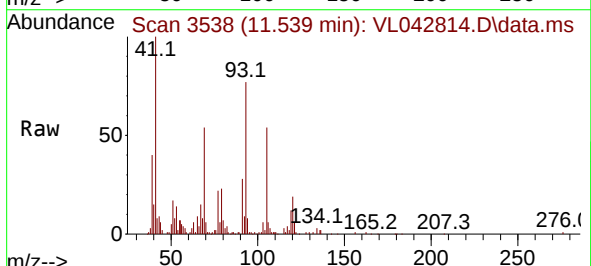
Tgt Ion:119 Resp: 38819
Ion Ratio Lower Upper
119 100
134 27.1 20.6 31.0
91 30.8 23.2 34.8

Manual Integrations
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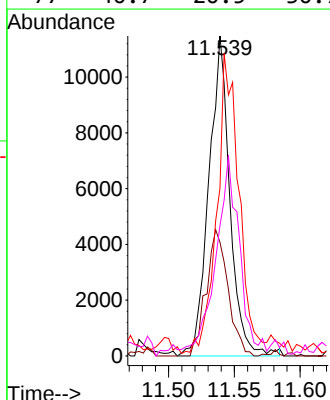
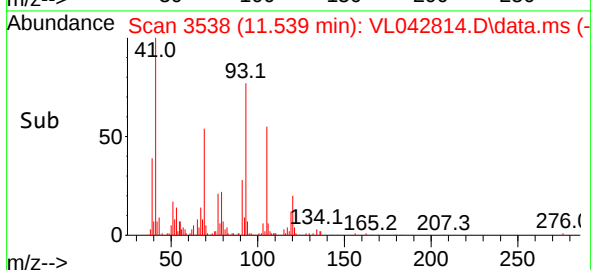
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

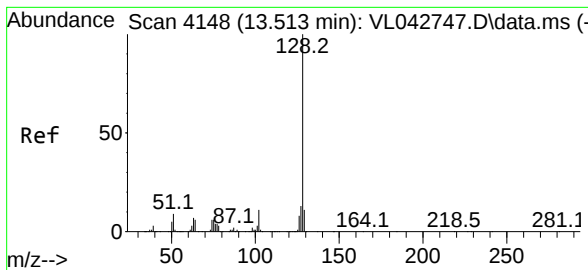


#74
1,2,4-Trimethylbenzene
Concen: 0.252 ppbv m
RT: 11.539 min Scan# 3538
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15



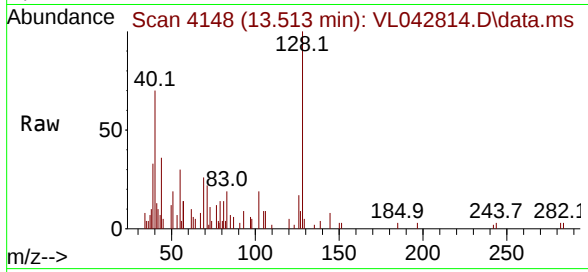
Tgt Ion:105 Resp: 12795
Ion Ratio Lower Upper
105 100
120 35.5 40.8 61.2#
91 52.4 53.0 79.4#
77 40.7 20.5 30.7#





#79
Naphthalene
Concen: 0.471 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP



Tgt Ion	Ratio	Lower	Upper
128	100		
127	8.8	10.5	15.7
129	5.2	8.6	13.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

