

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
 Data File : VL043265.D
 Acq On : 20 Nov 2025 15:06
 Operator : SY/MD
 Sample : Q3655-05 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
 Supervised By :Mahesh Dadoda 11/21/2025

Quant Time: Nov 21 00:39:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

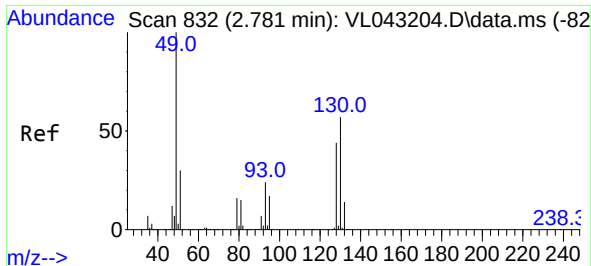
Internal Standards						
1) Bromochloromethane	2.784	49	104404	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	273214	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	215431	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	166134	10.521	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	4231	0.287	ppbv #	83
4) Chloromethane	1.531	50	2226	0.404	ppbv	94
9) Propene	1.489	41	1663	0.270	ppbv #	1
11) Trichlorofluoromethane	1.877	101	1972m	0.138	ppbv	
13) Ethanol	1.722	45	11522	5.328	ppbv	98
15) Acetone	1.835	43	67707	4.668	ppbv	97
17) tert-Butyl alcohol	2.039	59	2906m	0.153	ppbv	
19) Isopropyl Alcohol	1.884	45	18854	2.300	ppbv #	21
20) Methylene Chloride	2.062	84	7368	1.019	ppbv	96
26) Hexane	2.826	57	6491	0.473	ppbv #	48
34) 2-Butanone	2.554	43	33252	1.724	ppbv	98
35) Carbon Tetrachloride	3.758	117	870m	0.042	ppbv	
36) Benzene	3.651	78	3758m	0.144	ppbv	
38) Trichloroethene	4.538	130	337m	0.033	ppbv	
52) Tetrachloroethene	8.218	164	16991	1.746	ppbv	91
53) Toluene	6.920	91	25000m	0.807	ppbv	
58) Ethyl Benzene	9.351	91	11600	0.280	ppbv	98
59) m/p-Xylene	9.526	91	36295m	1.092	ppbv	
60) o-Xylene	9.956	91	11915	0.359	ppbv	91
61) Styrene	9.862	104	27380	1.884	ppbv	98
62) Isopropylbenzene	10.535	105	16584	0.279	ppbv	99
69) p-Isopropyltoluene	11.917	119	9686	0.154	ppbv	95
73) 1,3,5-Trimethylbenzene	11.192	105	3434m	0.101	ppbv	
74) 1,2,4-Trimethylbenzene	11.529	105	15609	0.421	ppbv #	54

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

Manual Integrations
APPROVED

Quant Time: Nov 21 00:39:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration





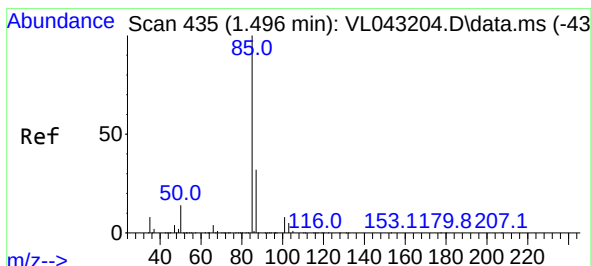
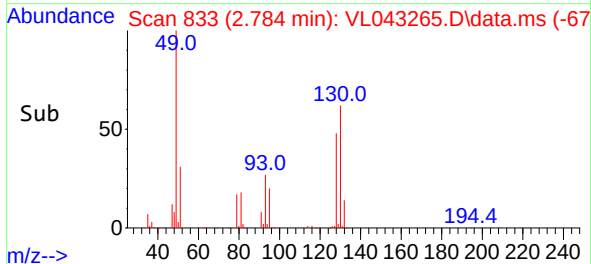
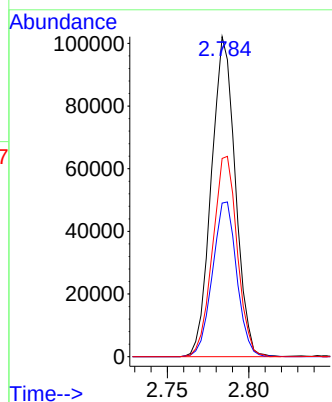
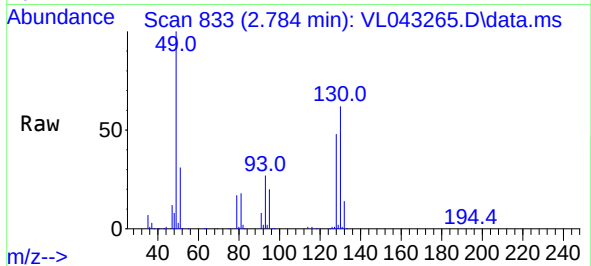
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

Instrument :
MSVOA_L
ClientSampleId :
SG-5

Tgt Ion: 49 Resp: 104404
Ion Ratio Lower Upper
49 100
128 49.0 23.0 69.0
130 64.2 29.9 89.7

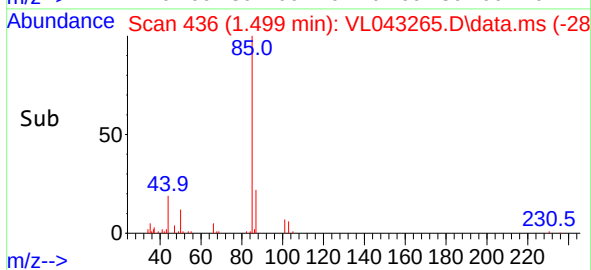
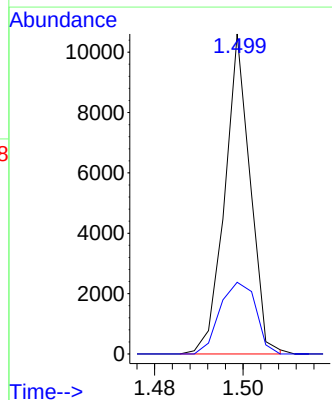
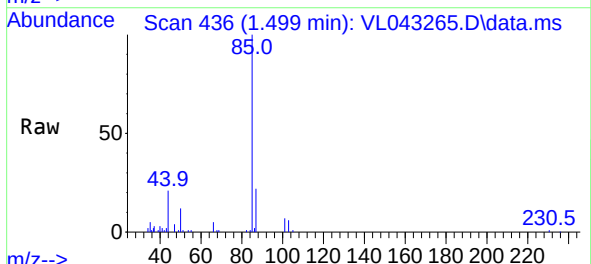
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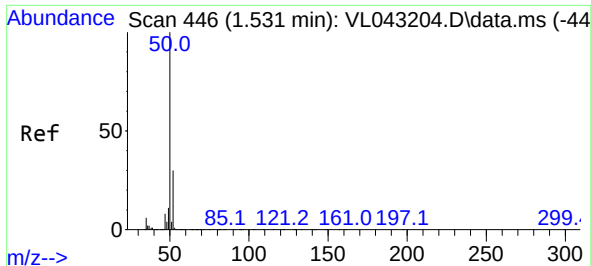
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#2
Dichlorodifluoromethane
Concen: 0.287 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

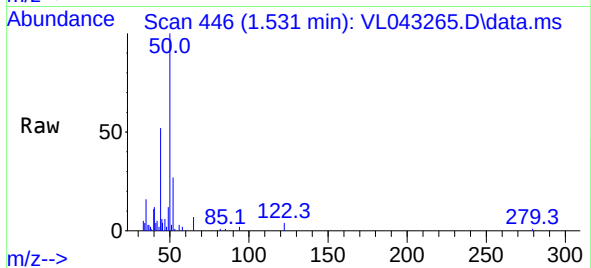
Tgt Ion: 85 Resp: 4231
Ion Ratio Lower Upper
85 100
87 22.4 25.4 38.2#





#4
Chloromethane
Concen: 0.404 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

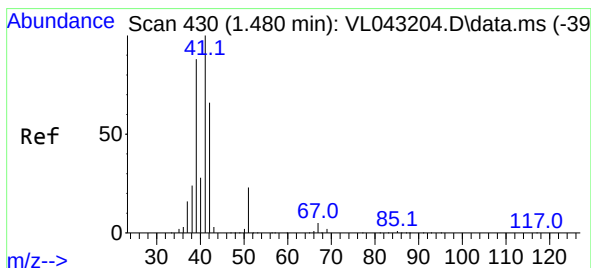
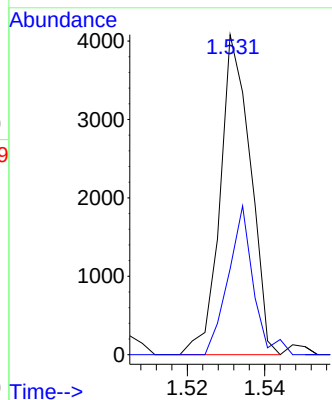
Instrument :
MSVOA_L
ClientSampleId :
SG-5



Tgt Ion: 50 Resp: 2220
Ion Ratio Lower Upper
50 100
52 26.8 24.1 36.1

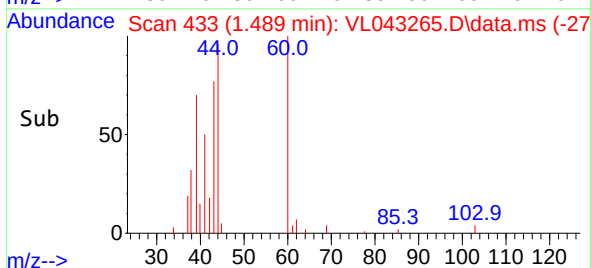
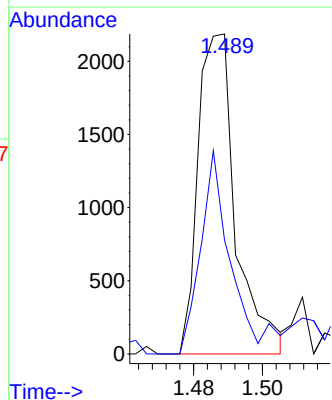
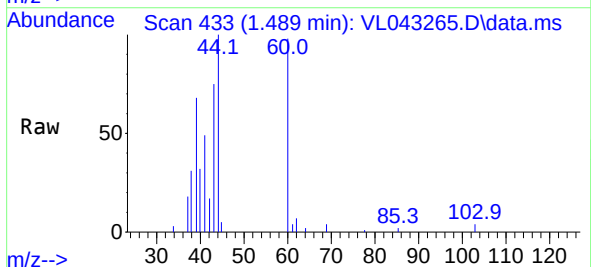
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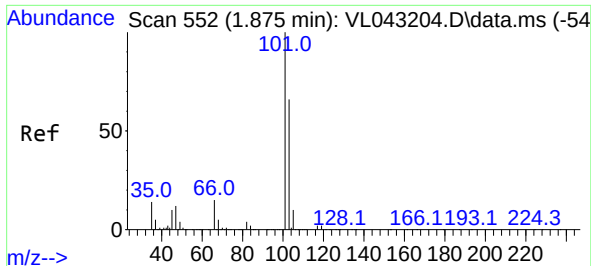
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#9
Propene
Concen: 0.270 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.009 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

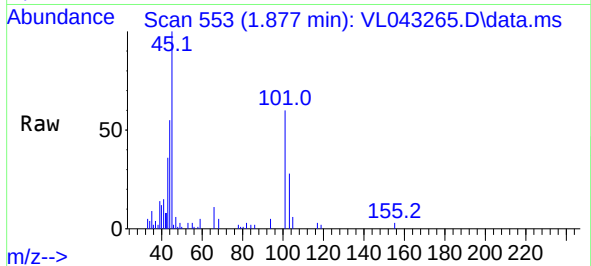
Tgt Ion: 41 Resp: 1663
Ion Ratio Lower Upper
41 100
42 64.6 3.7 5.5#





#11
Trichlorofluoromethane
Concen: 0.138 ppbv m
RT: 1.877 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

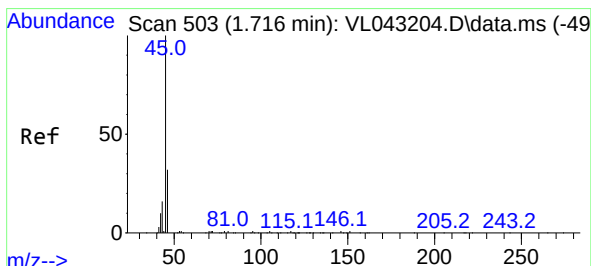
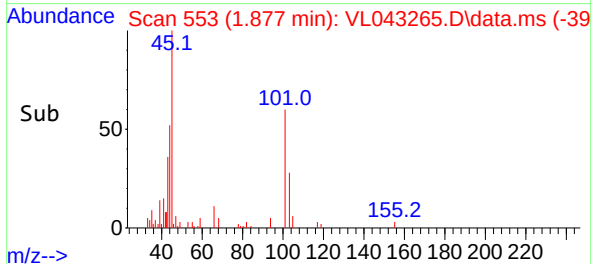
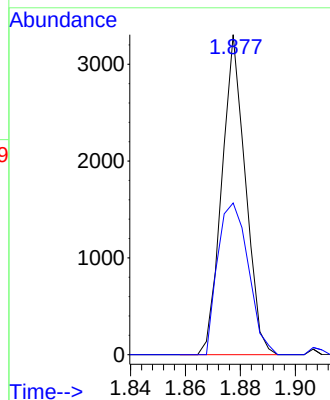
Instrument :
MSVOA_L
ClientSampleId :
SG-5



Tgt Ion:101 Resp: 1972
Ion Ratio Lower Upper
101 100
103 47.4 52.6 79.0

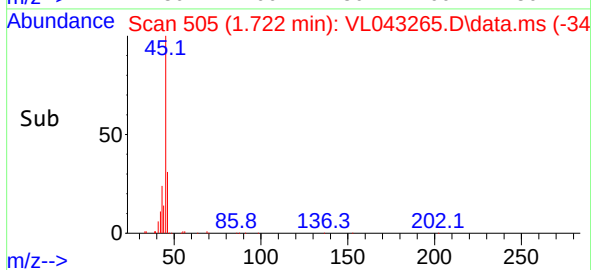
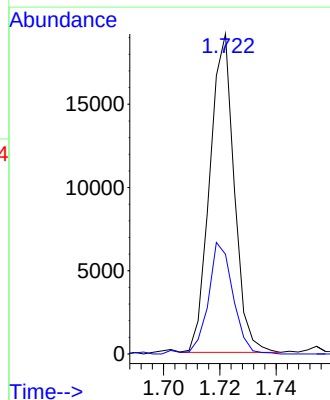
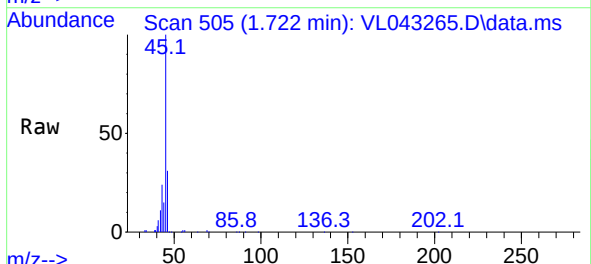
Manual Integrations
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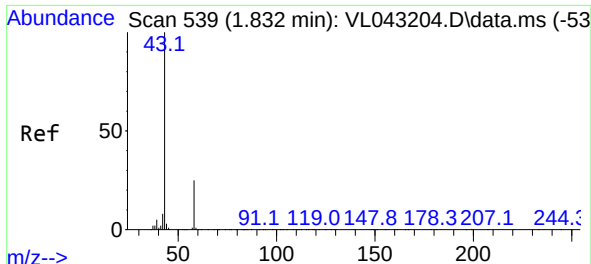
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#13
Ethanol
Concen: 5.328 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

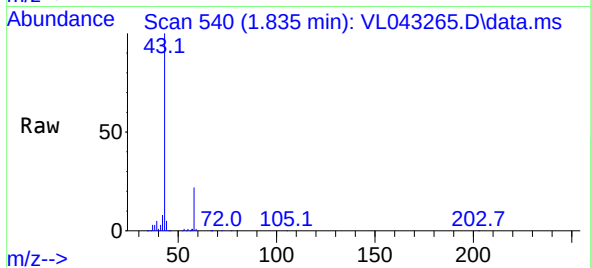
Tgt Ion: 45 Resp: 11522
Ion Ratio Lower Upper
45 100
46 36.0 15.0 59.8





#15
Acetone
Concen: 4.668 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

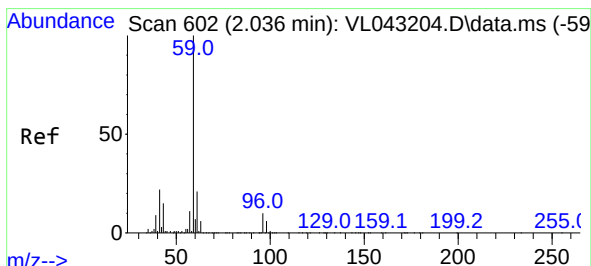
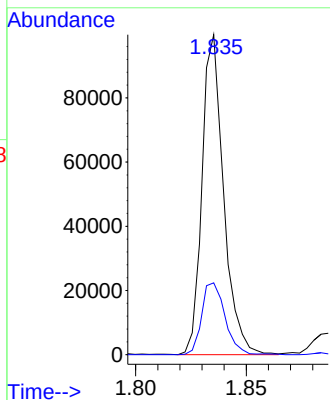
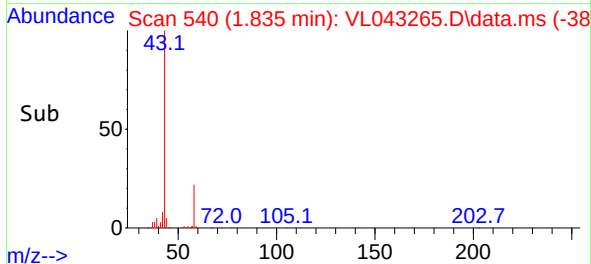
Instrument :
MSVOA_L
ClientSampleId :
SG-5



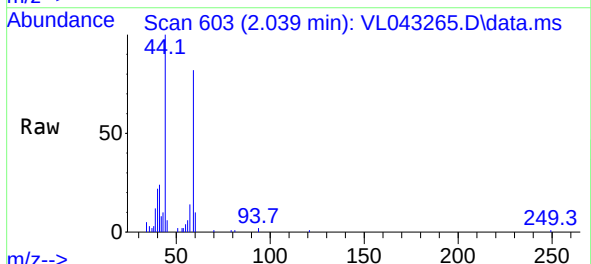
Tgt Ion: 43 Resp: 6770
Ion Ratio Lower Upper
43 100
58 24.3 20.7 31.1

Manual Integrations
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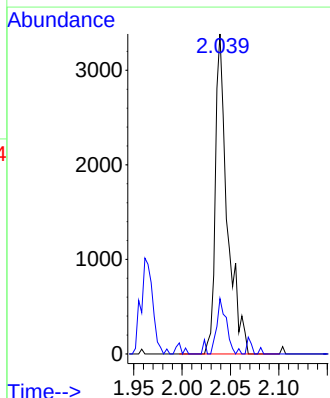
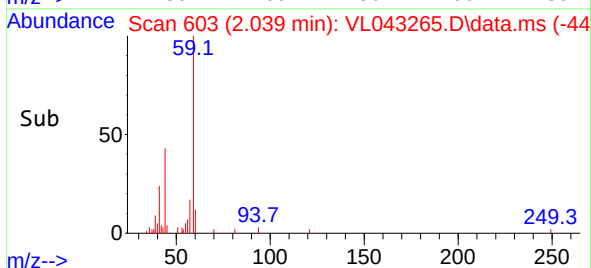
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

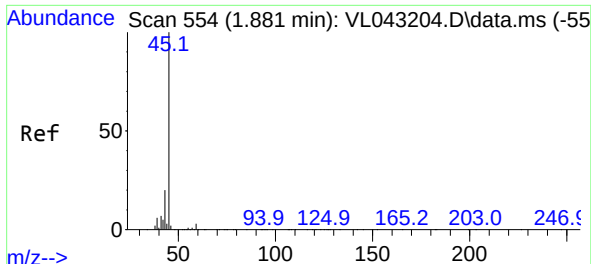


#17
tert-Butyl alcohol
Concen: 0.153 ppbv m
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06



Tgt Ion: 59 Resp: 2906
Ion Ratio Lower Upper
59 100
57 15.0 9.0 13.4#





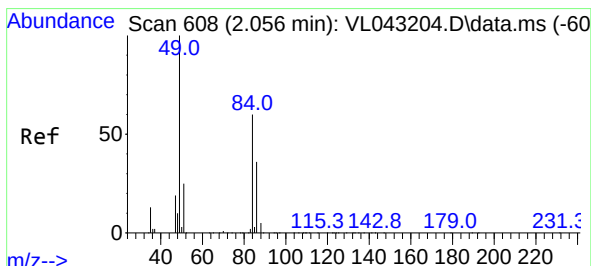
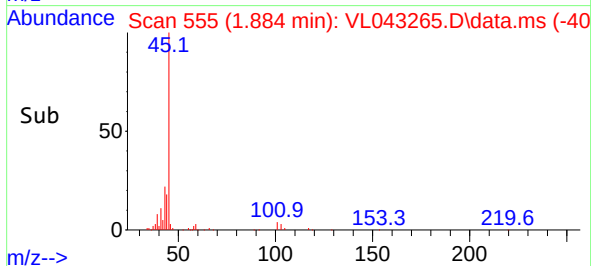
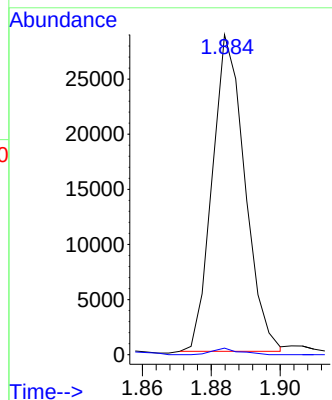
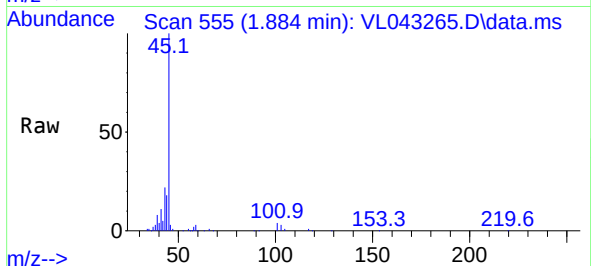
#19
Isopropyl Alcohol
Concen: 2.300 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

Instrument :
MSVOA_L
ClientSampleId :
SG-5

Tgt Ion: 45 Resp: 18854
Ion Ratio Lower Upper
45 100
58 87.3 31.3 46.9

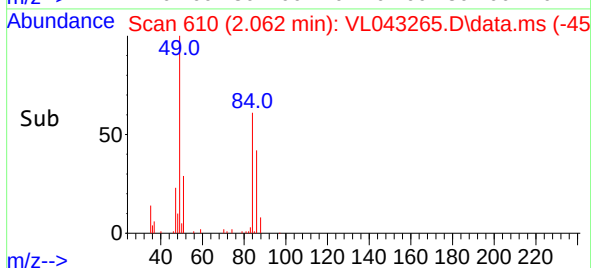
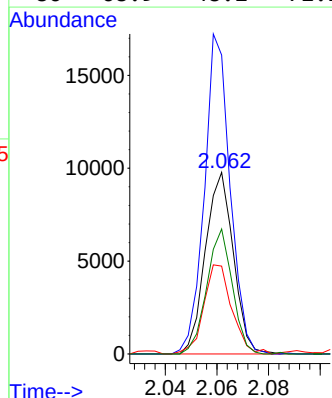
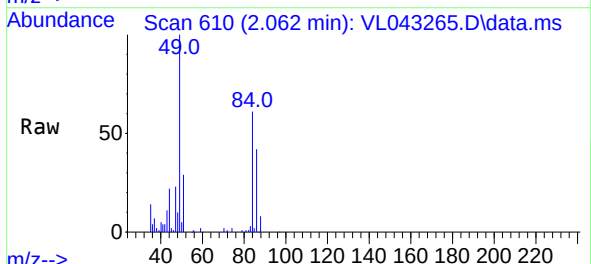
Manual Integrations
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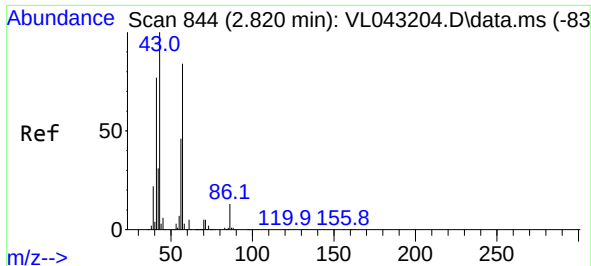
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#20
Methylene Chloride
Concen: 1.019 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

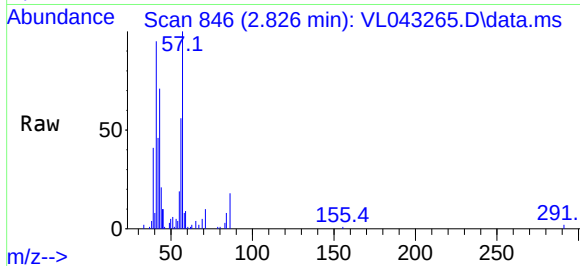
Tgt Ion: 84 Resp: 7368
Ion Ratio Lower Upper
84 100
49 164.7 132.9 199.3
51 47.7 34.8 52.2
86 68.9 48.2 72.2





#26
Hexane
Concen: 0.473 ppbv
RT: 2.826 min Scan# 844
Delta R.T. 0.006 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

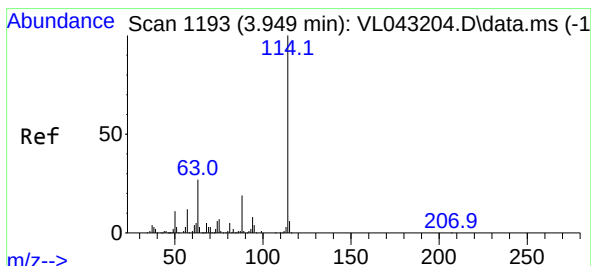
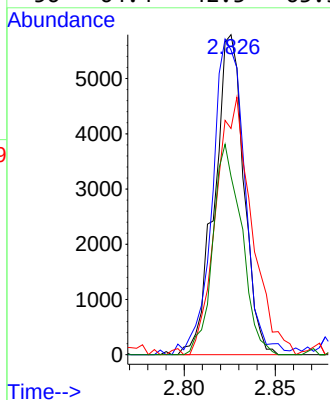
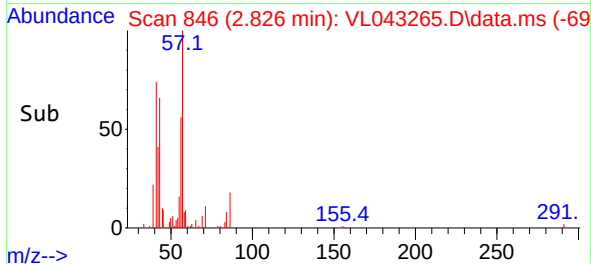
Instrument :
MSVOA_L
ClientSampleId :
SG-5



Tgt Ion: 57 Resp: 649
Ion Ratio Lower Upper
57 100
41 108.9 74.6 111.8
43 101.1 179.0 268.4
56 64.4 42.3 63.5#

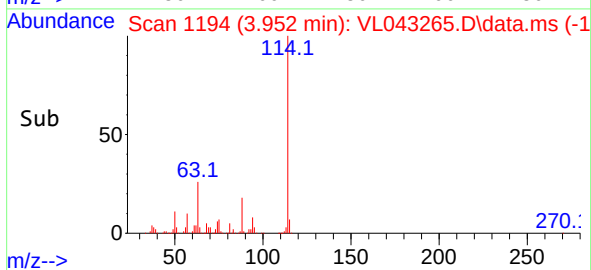
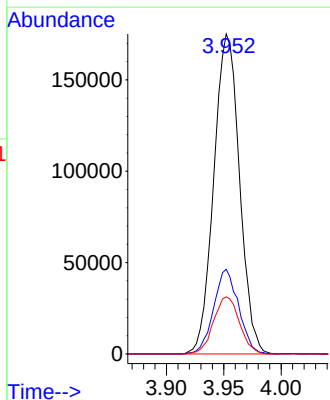
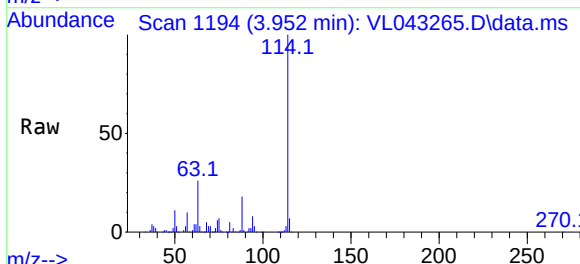
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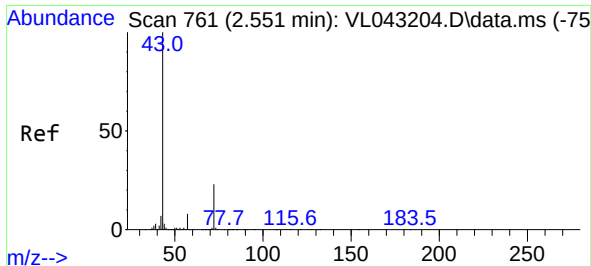
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

Tgt Ion:114 Resp: 273214
Ion Ratio Lower Upper
114 100
63 25.8 21.0 31.6
88 18.0 14.9 22.3





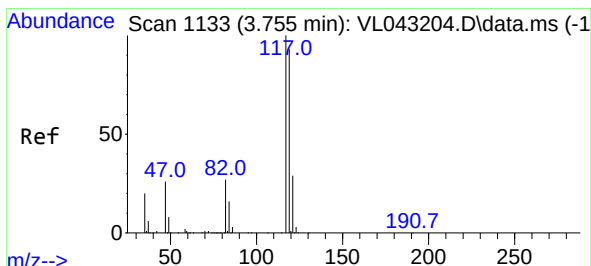
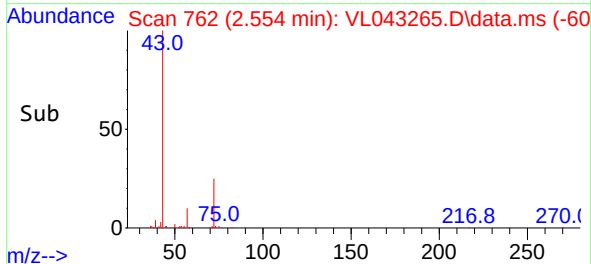
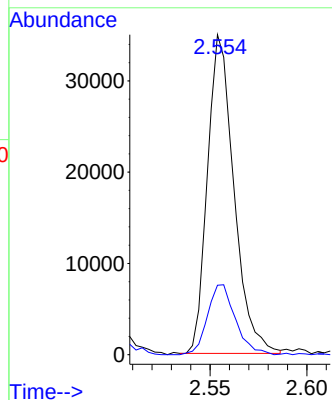
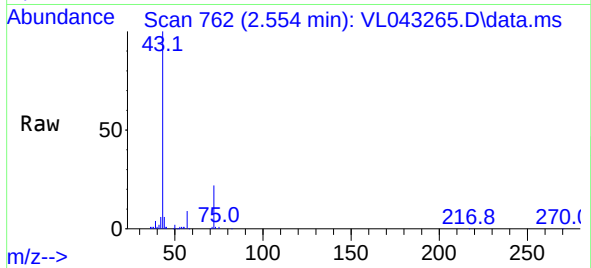
#34
2-Butanone
Concen: 1.724 ppbv
RT: 2.554 min Scan# 761
Delta R.T. 0.003 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

Instrument :
MSVOA_L
ClientSampleId :
SG-5

Tgt Ion: 43 Resp: 3325
Ion Ratio Lower Upper
43 100
72 23.5 18.1 27.1

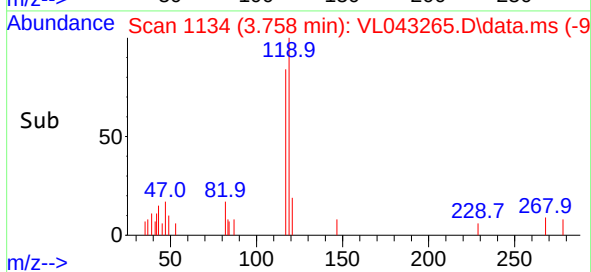
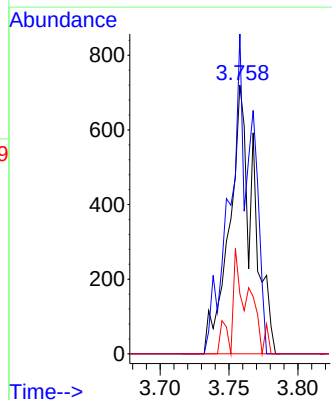
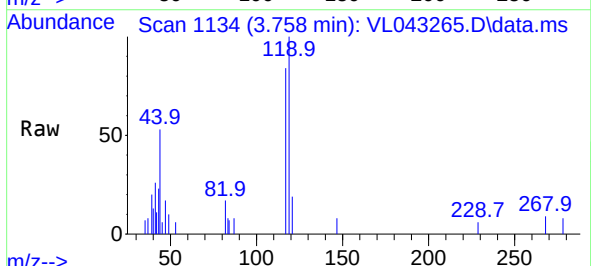
Manual Integrations
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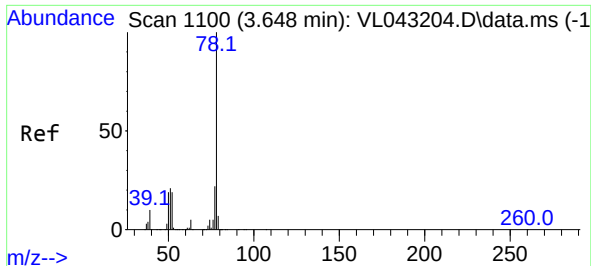
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#35
Carbon Tetrachloride
Concen: 0.042 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. 0.003 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

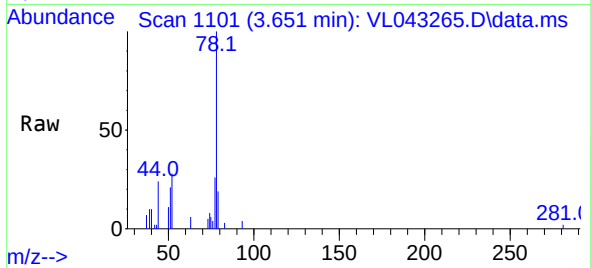
Tgt Ion:117 Resp: 870
Ion Ratio Lower Upper
117 100
119 119.0 74.6 112.0#
121 22.4 23.2 34.8#





#36
Benzene
Concen: 0.144 ppbv m
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

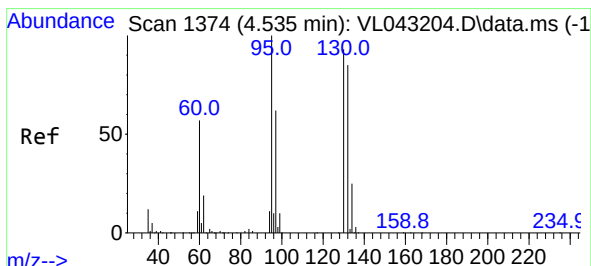
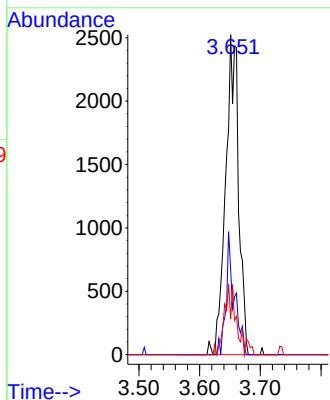
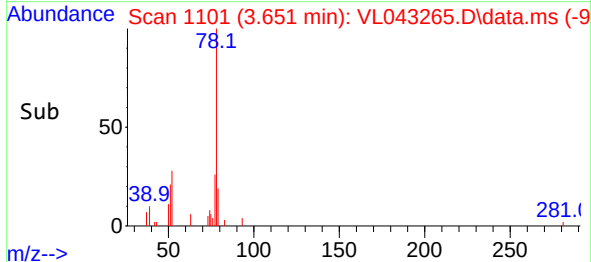
Instrument :
MSVOA_L
ClientSampleId :
SG-5



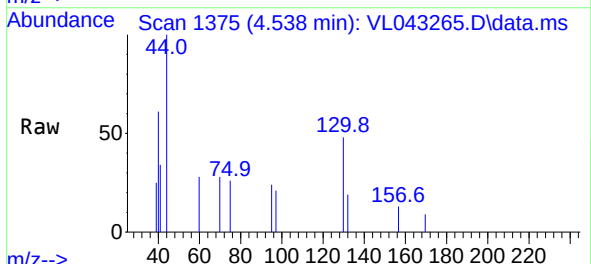
Tgt Ion: 78 Resp: 3758
Ion Ratio Lower Upper
78 100
77 26.4 17.5 26.3#
50 11.1 15.5 23.3#

Manual Integrations
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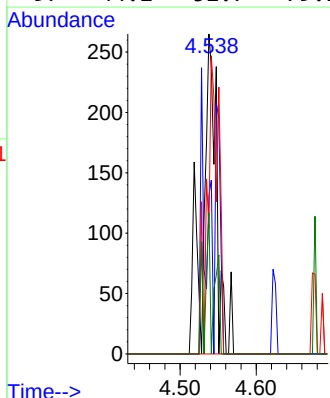
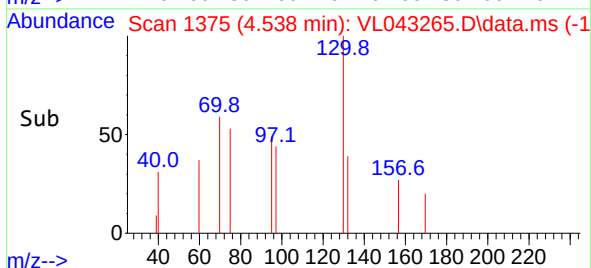
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

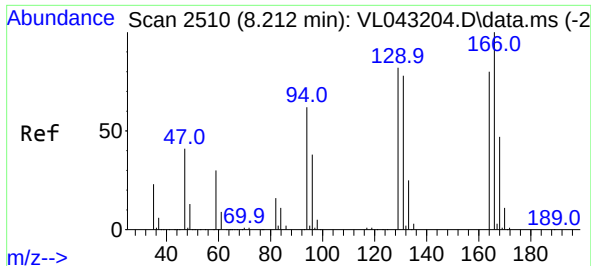


#38
Trichloroethene
Concen: 0.033 ppbv m
RT: 4.538 min Scan# 1375
Delta R.T. 0.003 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06



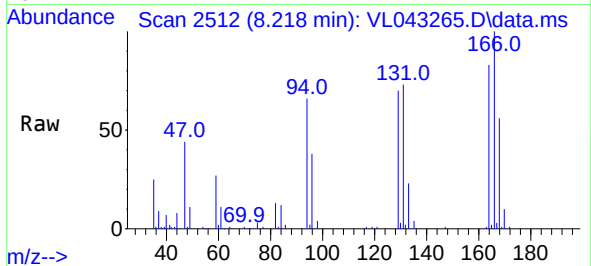
Tgt Ion:130 Resp: 337
Ion Ratio Lower Upper
130 100
95 49.4 85.7 128.5#
132 39.2 73.4 110.0#
97 44.2 52.7 79.1#





#52
Tetrachloroethene
Concen: 1.746 ppbv
RT: 8.218 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

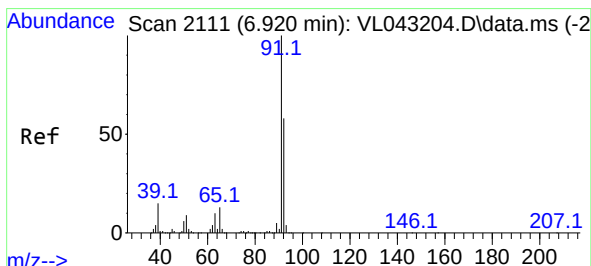
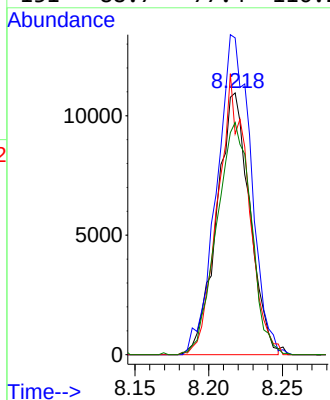
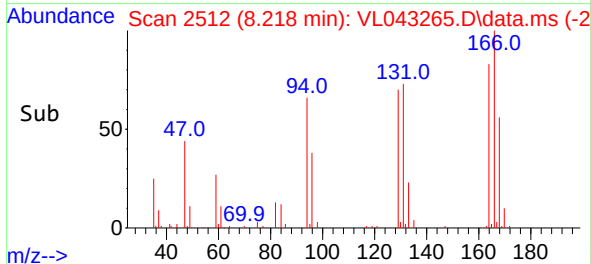
Instrument :
MSVOA_L
ClientSampleId :
SG-5



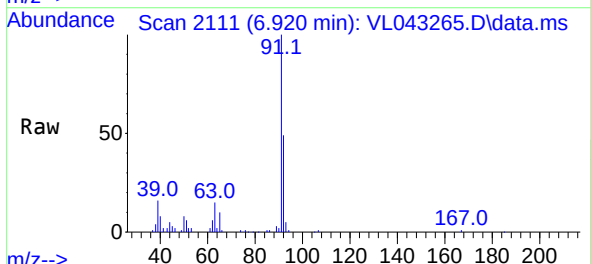
Tgt Ion:164 Resp: 1699
Ion Ratio Lower Upper
164 100
166 121.0 99.4 149.2
129 84.4 81.8 122.8
131 88.7 77.4 116.2

Manual Integrations
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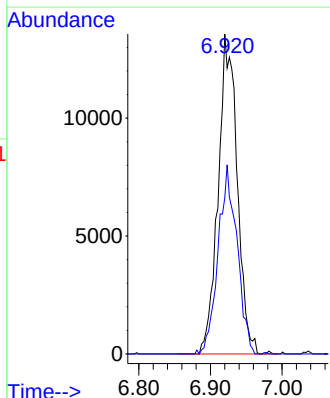
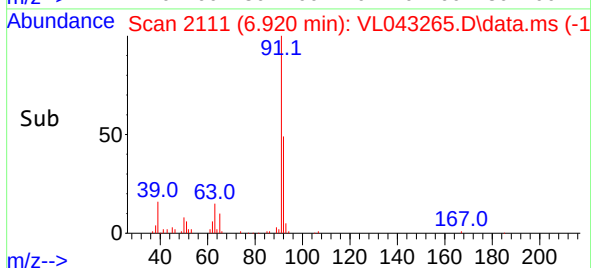
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

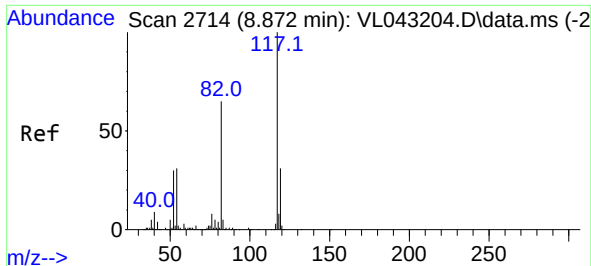


#53
Toluene
Concen: 0.807 ppbv m
RT: 6.920 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06



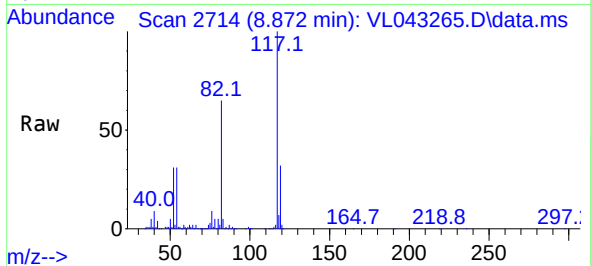
Tgt Ion: 91 Resp: 25000
Ion Ratio Lower Upper
91 100
92 58.6 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 21543
Delta R.T. -0.000 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

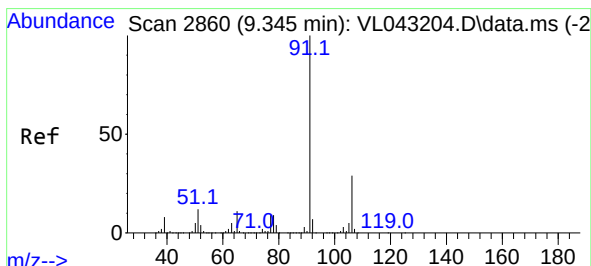
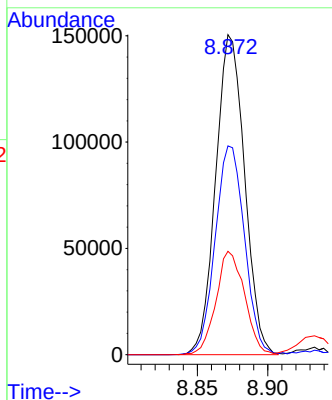
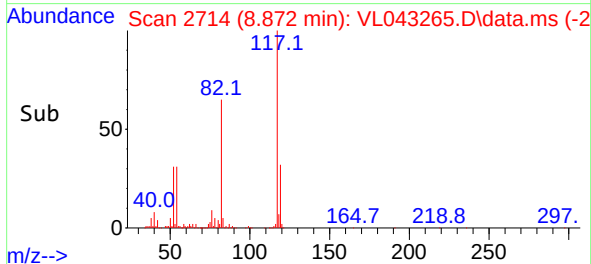
Instrument :
MSVOA_L
ClientSampleId :
SG-5



Tgt Ion: 117 Resp: 21543
Ion Ratio Lower Upper
117 100
82 66.4 56.1 84.1
119 32.1 25.0 37.6

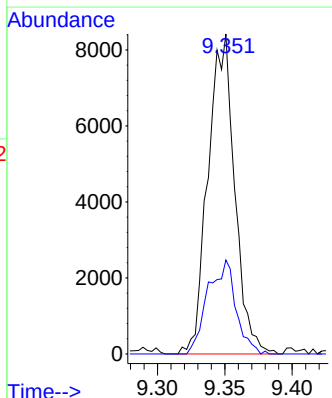
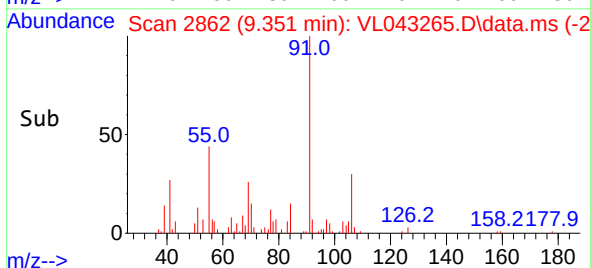
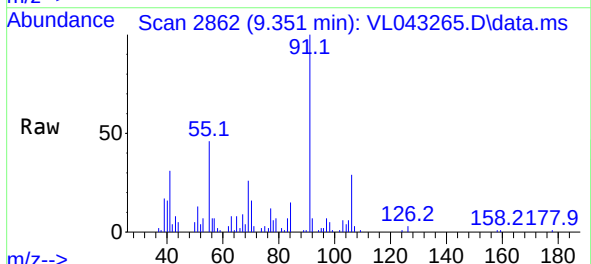
Manual Integrations
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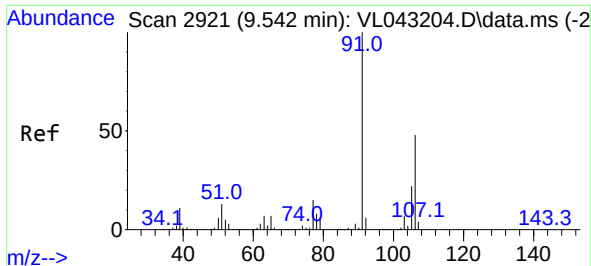
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#58
Ethyl Benzene
Concen: 0.280 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

Tgt Ion: 91 Resp: 11600
Ion Ratio Lower Upper
91 100
106 29.3 22.8 34.2





#59

m/p-Xylene

Concen: 1.092 ppbv m

RT: 9.526 min Scan# 2916

Delta R.T. -0.017 min

Lab File: VL043265.D

Acq: 20 Nov 2025 15:06

Instrument :

MSVOA_L

ClientSampleId :

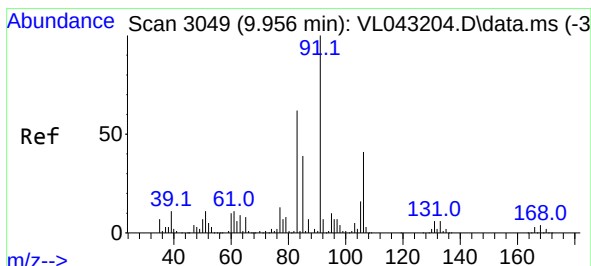
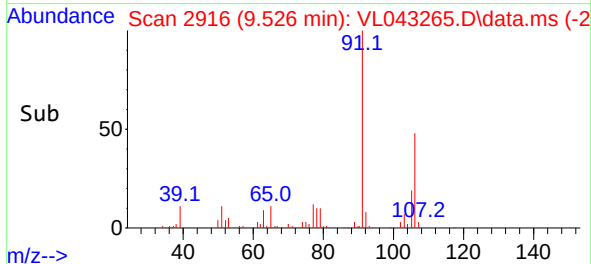
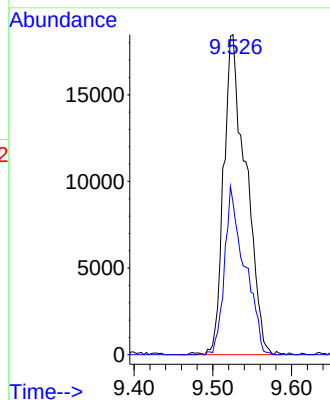
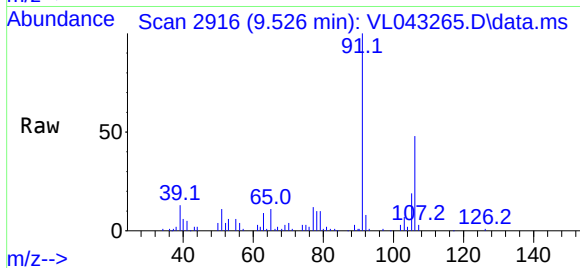
SG-5

Tgt Ion: 91 Resp: 3629
 Ion Ratio Lower Upper
 91 100
 106 47.5 36.1 54.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/21/2025
 Supervised By :Mahesh Dadoda 11/21/2025



#60

o-Xylene

Concen: 0.359 ppbv

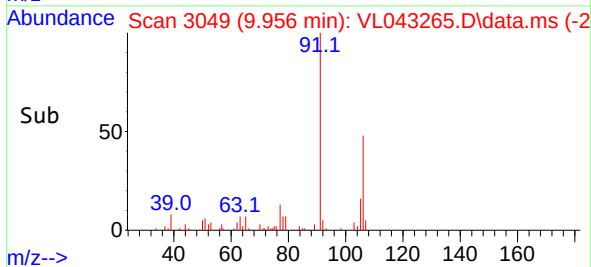
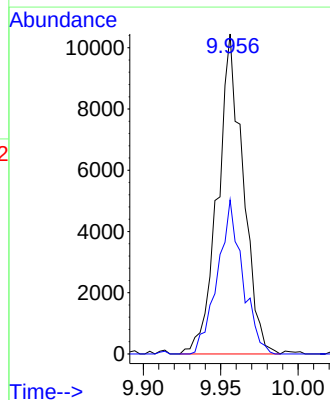
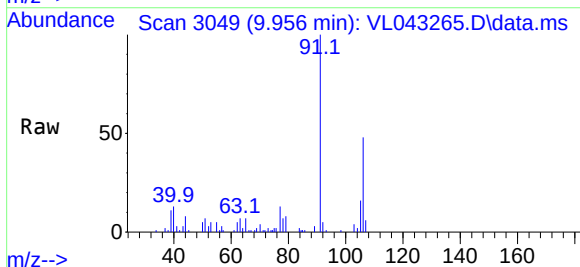
RT: 9.956 min Scan# 3049

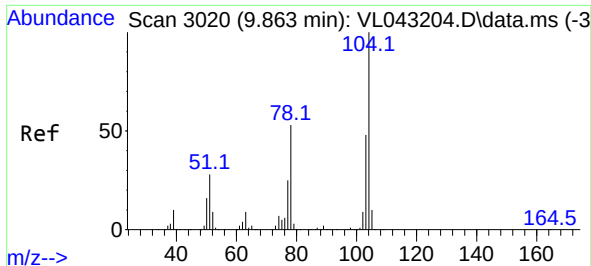
Delta R.T. -0.000 min

Lab File: VL043265.D

Acq: 20 Nov 2025 15:06

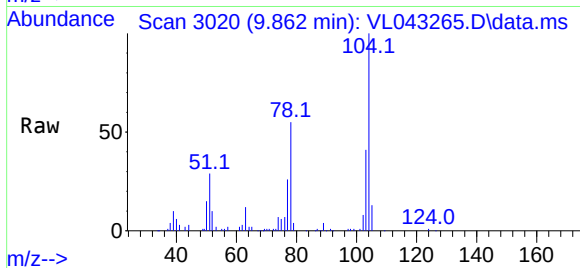
Tgt Ion: 91 Resp: 11915
 Ion Ratio Lower Upper
 91 100
 106 47.7 20.9 62.8





#61
Styrene
Concen: 1.884 ppbv
RT: 9.862 min Scan# 3020
Delta R.T. -0.000 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

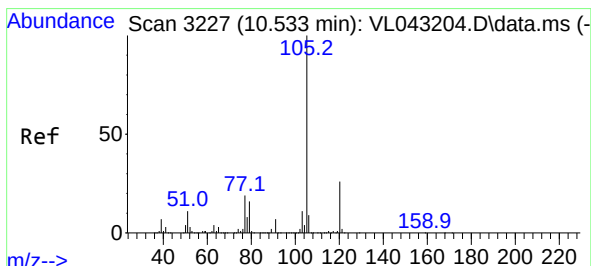
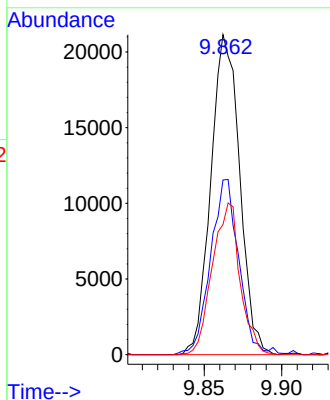
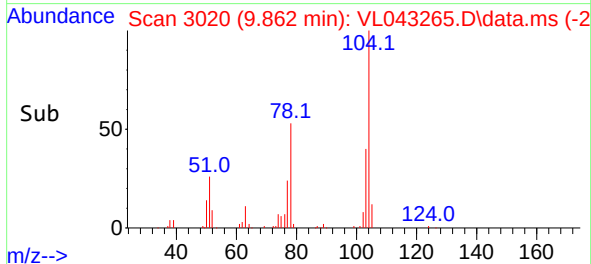
Instrument :
MSVOA_L
ClientSampleId :
SG-5



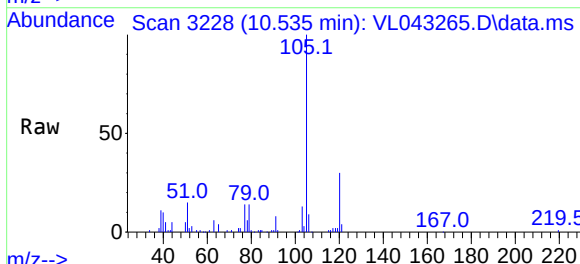
Tgt Ion:104 Resp: 27380
Ion Ratio Lower Upper
104 100
78 54.0 42.1 63.1
103 45.6 37.2 55.8

Manual Integrations
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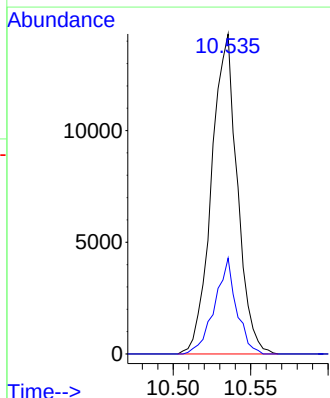
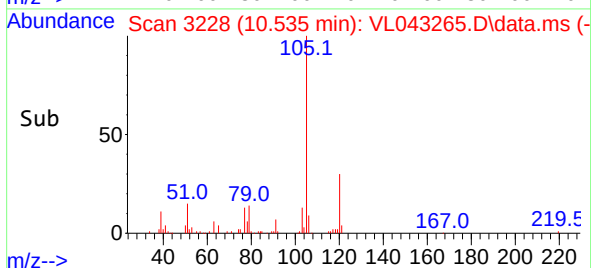
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

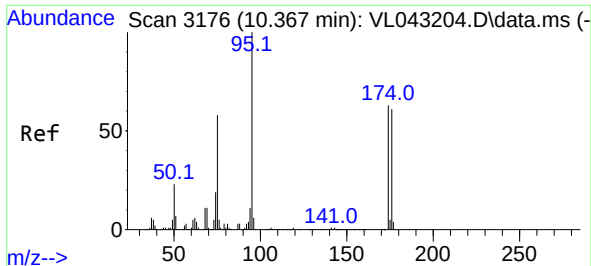


#62
Isopropylbenzene
Concen: 0.279 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. 0.003 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06



Tgt Ion:105 Resp: 16584
Ion Ratio Lower Upper
105 100
120 25.4 19.8 29.8





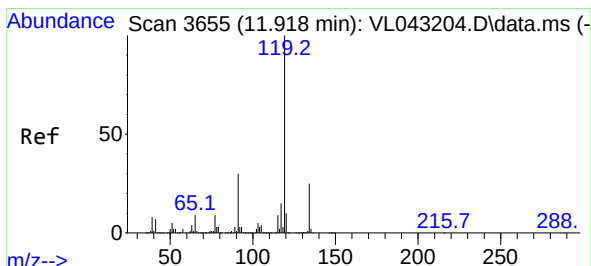
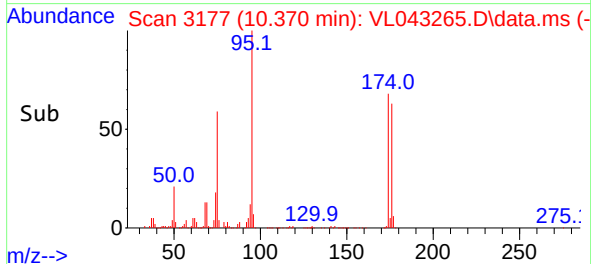
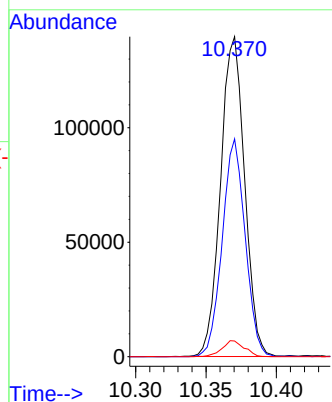
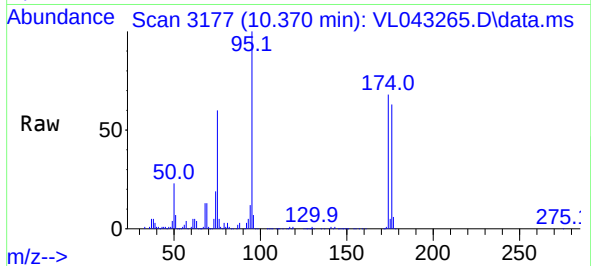
#68
1-Bromo-4-Fluorobenzene
Concen: 10.521 ppbv
RT: 10.370 min Scan# 3176
Delta R.T. 0.003 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

Instrument :
MSVOA_L
ClientSampleId :
SG-5

Tgt Ion: 95 Resp: 166134
Ion Ratio Lower Upper
95 100
174 65.1 50.2 75.2
175 4.7 4.1 6.1

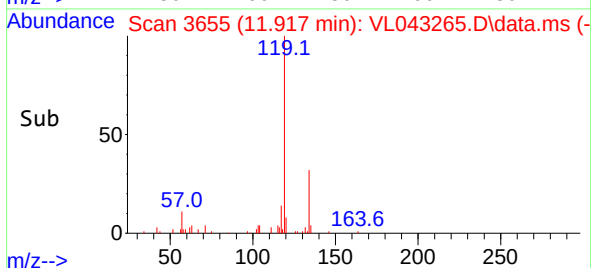
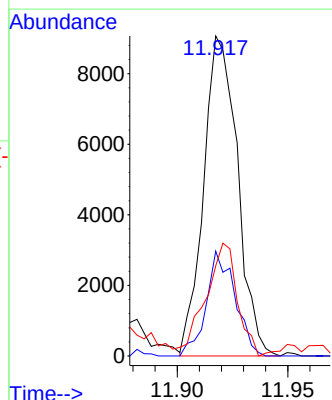
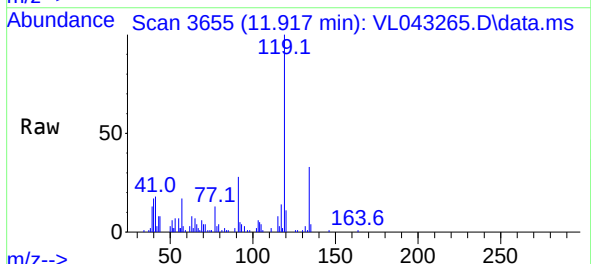
Manual Integrations
APPROVED

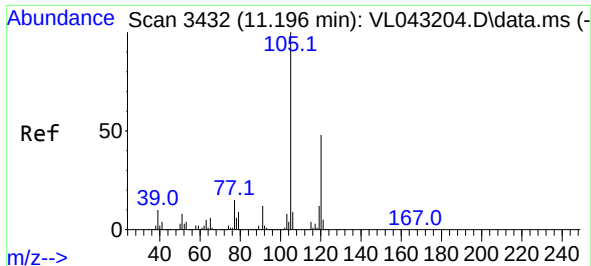
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#69
p-Isopropyltoluene
Concen: 0.154 ppbv
RT: 11.917 min Scan# 3655
Delta R.T. -0.000 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

Tgt Ion:119 Resp: 9686
Ion Ratio Lower Upper
119 100
134 27.8 20.2 30.2
91 32.2 23.8 35.8





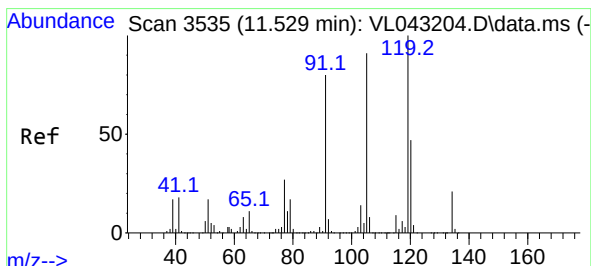
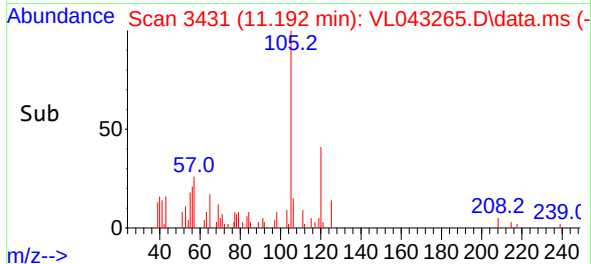
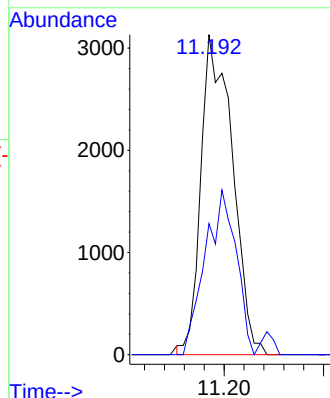
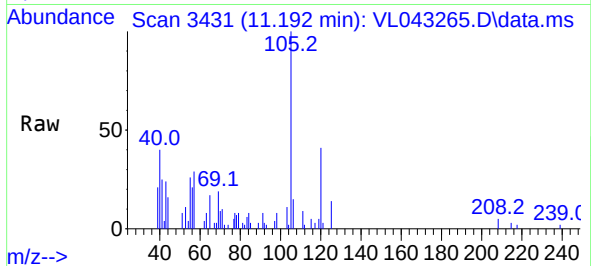
#73
1,3,5-Trimethylbenzene
Concen: 0.101 ppbv m
RT: 11.192 min Scan# 3432
Delta R.T. -0.004 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

Instrument :
MSVOA_L
ClientSampleId :
SG-5

Tgt Ion:105 Resp: 3434
Ion Ratio Lower Upper
105 100
120 41.0 38.6 57.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.421 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL043265.D
Acq: 20 Nov 2025 15:06

Tgt Ion:105 Resp: 15609
Ion Ratio Lower Upper
105 100
120 46.6 41.7 62.5
91 13.7 70.0 105.0#
77 20.7 23.8 35.8#

