

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041987.D
 Acq On : 10 Feb 2025 14:39
 Operator : SY/MD
 Sample : Q1303-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 01:23:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

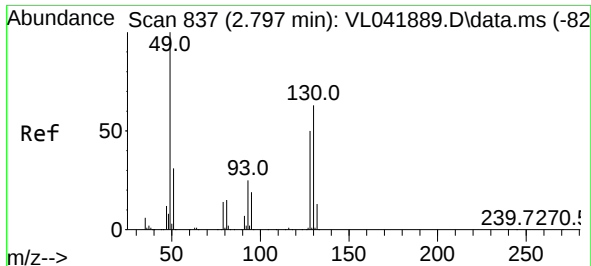
Internal Standards						
1) Bromochloromethane	2.784	49	150085	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.952	114	415477	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.879	117	373160	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	264651	9.004	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.000%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.496	85	2541	0.124	ppbv	97
9) Propene	1.486	41	3724	0.422	ppbv	86
10) Heptane	4.972	43	61096m	2.591	ppbv	
13) Ethanol	1.719	45	17505	27.089	ppbv	86
15) Acetone	1.832	43	212962	11.814	ppbv	99
19) Isopropyl Alcohol	1.884	45	37953m	3.551	ppbv	
20) Methylene Chloride	2.059	84	1499	0.210	ppbv	92
26) Hexane	2.823	57	228396	11.880	ppbv #	36
29) Chloroform	2.845	83	3909	0.129	ppbv	88
30) Cyclohexane	3.855	84	5116	0.307	ppbv #	88
34) 2-Butanone	2.557	43	93067	3.522	ppbv	98
38) Trichloroethene	4.554	130	733m	0.048	ppbv	
41) Tetrahydrofuran	3.056	42	62905	4.381	ppbv	98
51) 2-Hexanone	7.435	43	377479	13.619	ppbv #	74
52) Tetrachloroethene	8.222	164	9927	0.751	ppbv	90
53) Toluene	6.927	91	233871	5.634	ppbv	100
58) Ethyl Benzene	9.351	91	220202	3.776	ppbv	95
59) m/p-Xylene	9.529	91	433881	9.282	ppbv	98
60) o-Xylene	9.963	91	208171	4.487	ppbv	100
62) Isopropylbenzene	10.539	105	139797	1.947	ppbv	98
64) n-propylbenzene	10.989	120	62740	3.458	ppbv	84
65) tert-Butylbenzene	11.542	119	67647	1.034	ppbv #	55
67) sec-Butylbenzene	11.772	105	141296	1.568	ppbv	99
69) p-Isopropyltoluene	11.927	119	76372	1.029	ppbv #	91
70) n-Butylbenzene	12.284	91	74239	1.009	ppbv #	68
73) 1,3,5-Trimethylbenzene	11.206	105	197194	4.024	ppbv	96
74) 1,2,4-Trimethylbenzene	11.542	105	554997	10.456	ppbv #	55

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

Manual Integrations

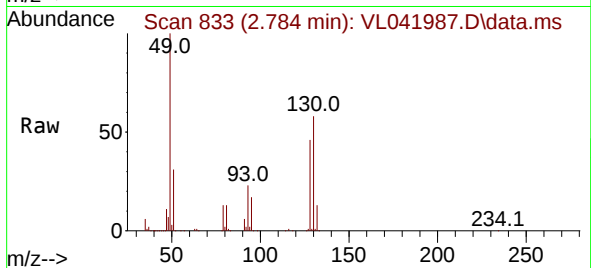
Quant Time: Feb 11 01:23:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.013 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

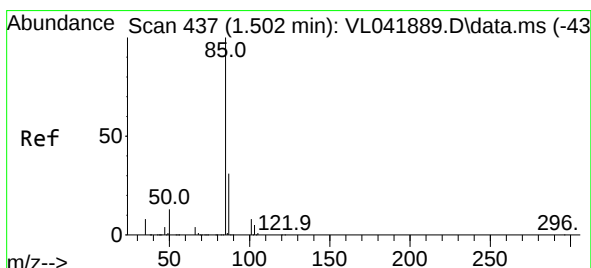
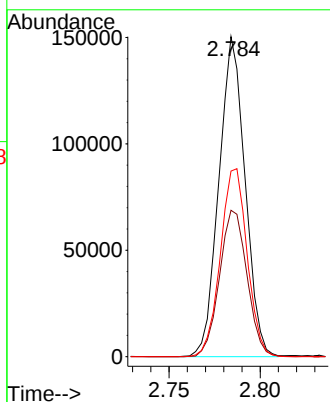
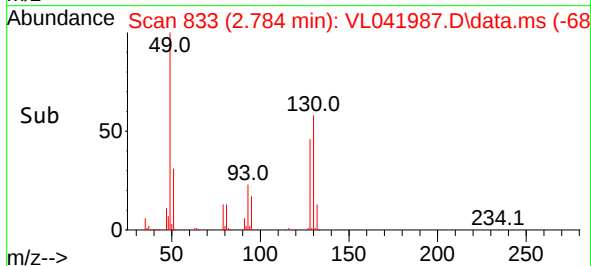
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 49 Resp: 15008
Ion Ratio Lower Upper
49 100
128 48.1 24.3 73.0
130 60.2 31.1 93.2

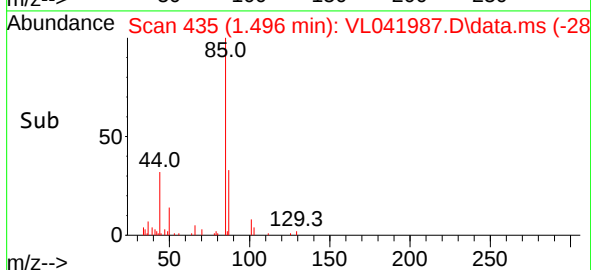
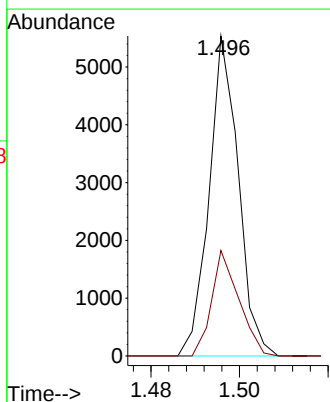
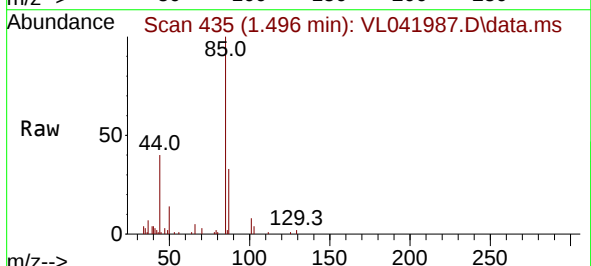
Manual Integrations
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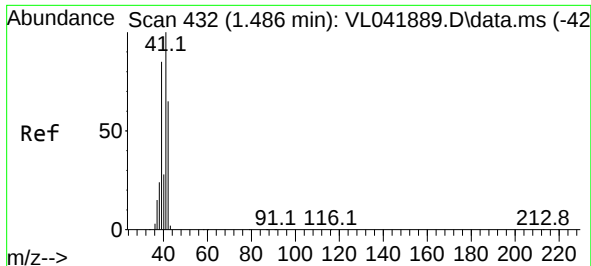
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 0.124 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Tgt Ion: 85 Resp: 2541
Ion Ratio Lower Upper
85 100
87 33.0 24.9 37.3





#9

Propene

Concen: 0.422 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL041987.D

Acq: 10 Feb 2025 14:39

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 41 Resp: 3724

Ion Ratio Lower Upper

41 100

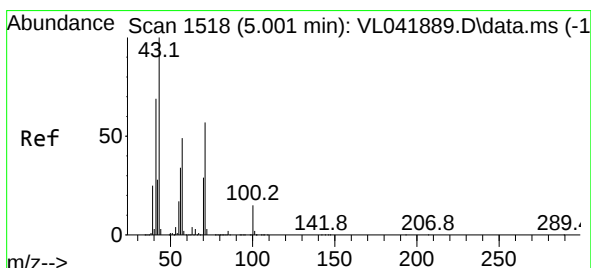
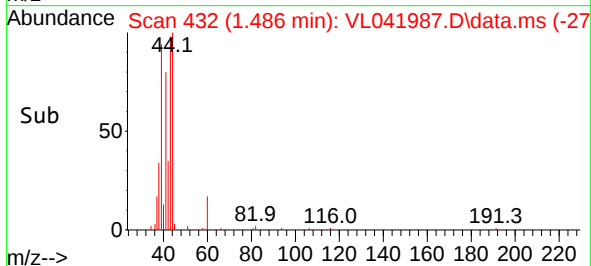
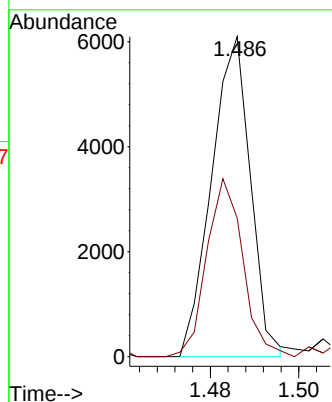
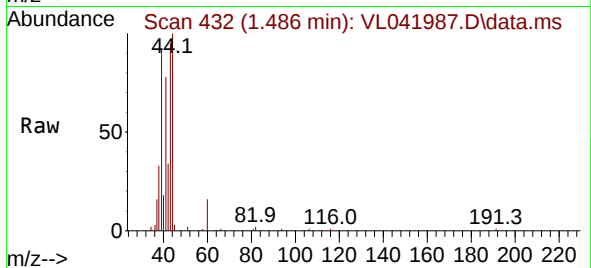
42 53.8 52.0 78.0

Manual Integrations

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Supervised By :Mahesh Dadoda 02/11/2025



#10

Heptane

Concen: 2.591 ppbv m

RT: 4.972 min Scan# 1509

Delta R.T. -0.029 min

Lab File: VL041987.D

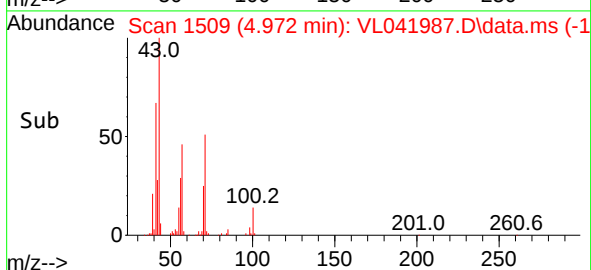
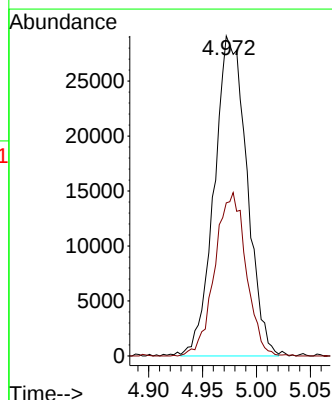
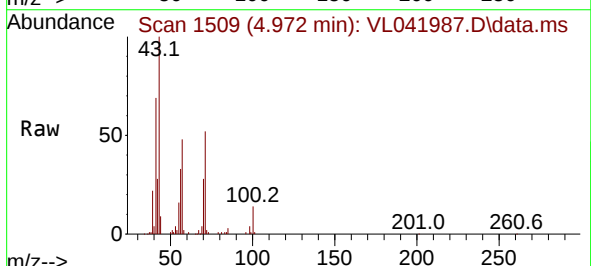
Acq: 10 Feb 2025 14:39

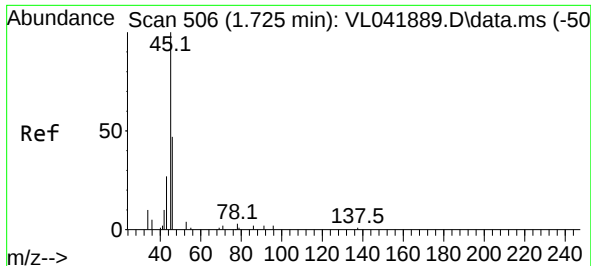
Tgt Ion: 43 Resp: 61096

Ion Ratio Lower Upper

43 100

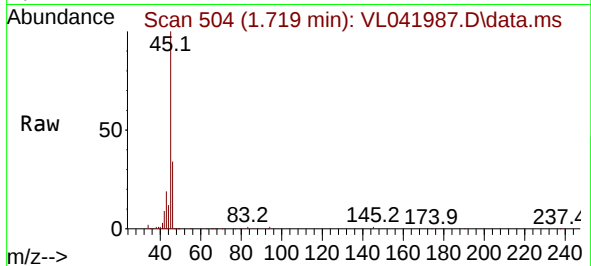
57 49.0 41.0 61.4





#13
Ethanol
Concen: 27.089 ppbv
RT: 1.719 min Scan# 506
Delta R.T. -0.006 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

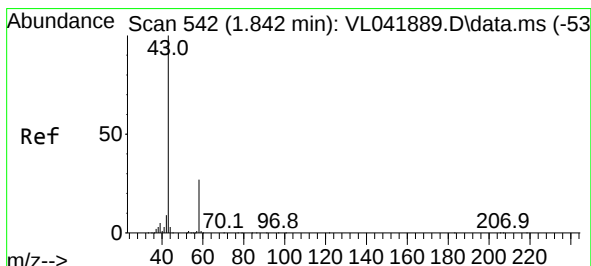
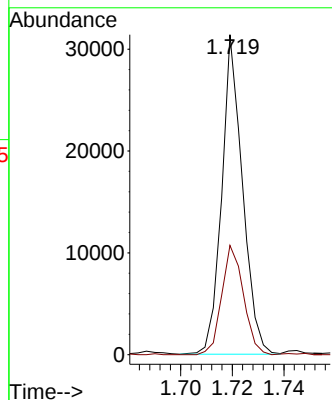
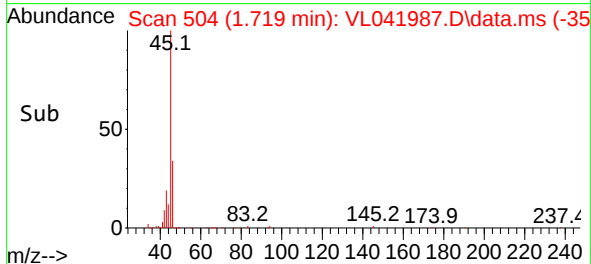
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 45 Resp: 17508
Ion Ratio Lower Upper
45 100
46 36.1 18.1 72.5

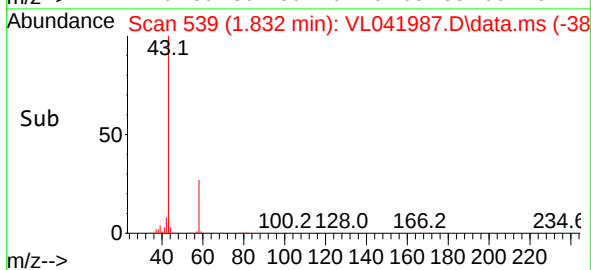
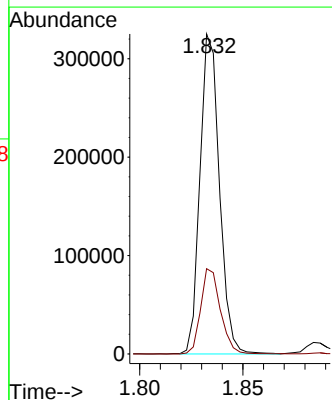
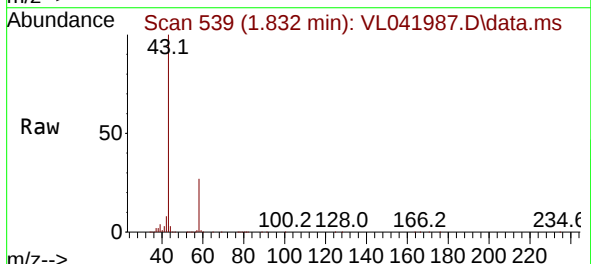
Manual Integrations
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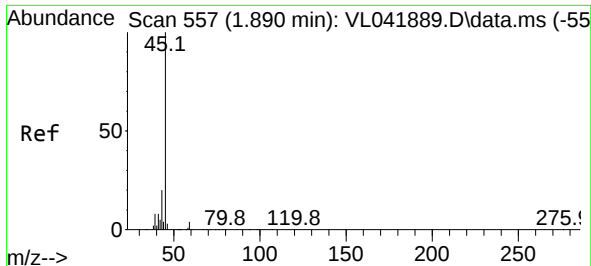
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#15
Acetone
Concen: 11.814 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.009 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Tgt Ion: 43 Resp: 212962
Ion Ratio Lower Upper
43 100
58 27.0 21.9 32.9





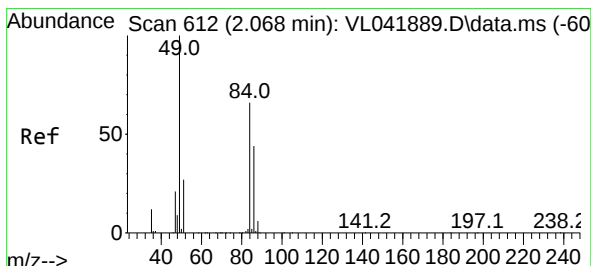
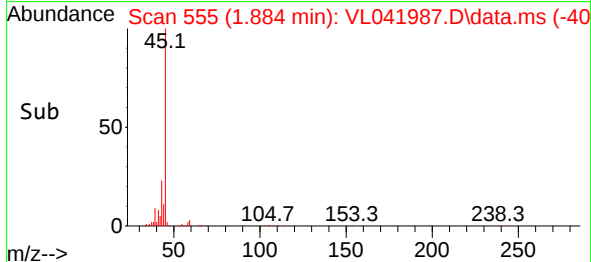
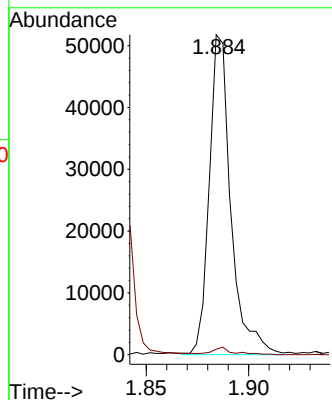
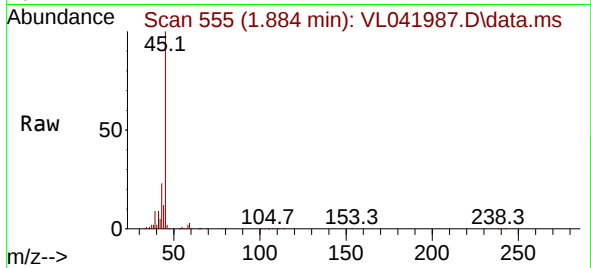
#19
Isopropyl Alcohol
Concen: 3.551 ppbv m
RT: 1.884 min Scan# 51
Delta R.T. -0.006 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 45 Resp: 3795
Ion Ratio Lower Upper
45 100
58 0.0 35.0 52.6

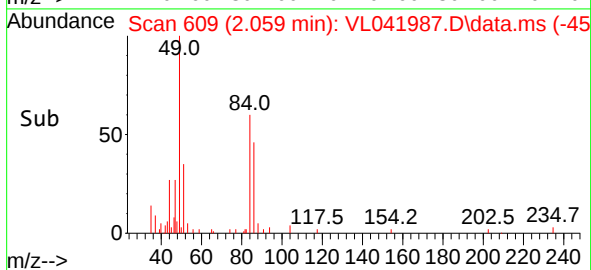
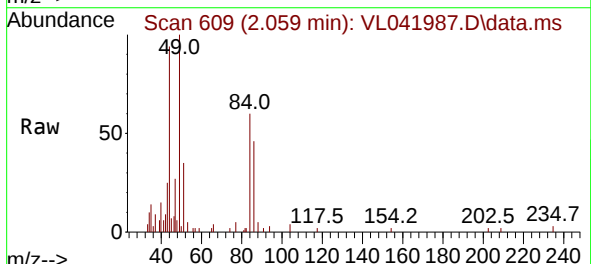
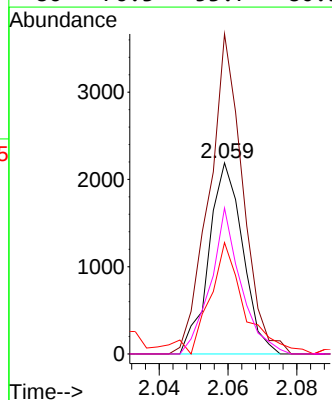
Manual Integrations
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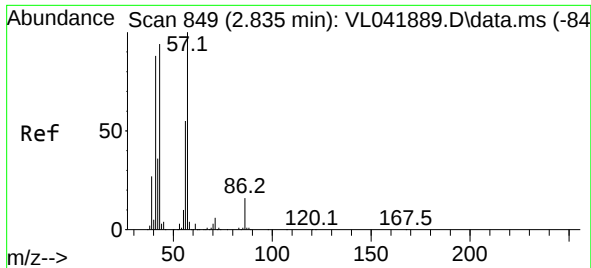
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#20
Methylene Chloride
Concen: 0.210 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.009 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

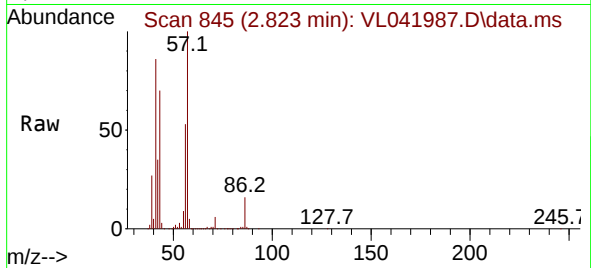
Tgt Ion: 84 Resp: 1499
Ion Ratio Lower Upper
84 100
49 161.0 123.1 184.7
51 53.0 35.8 53.8
86 76.3 53.7 80.5





#26
Hexane
Concen: 11.880 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.013 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

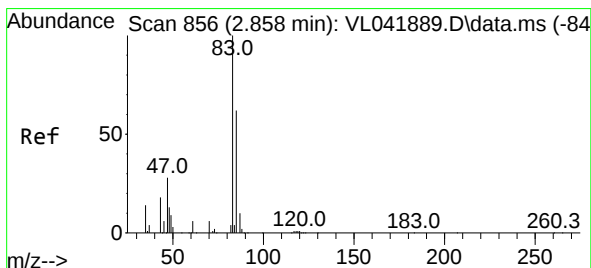
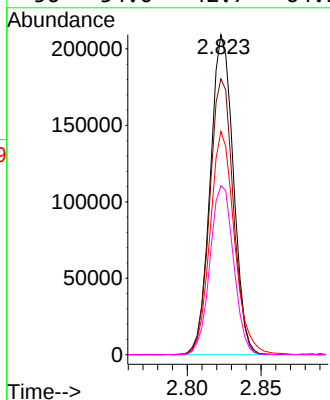
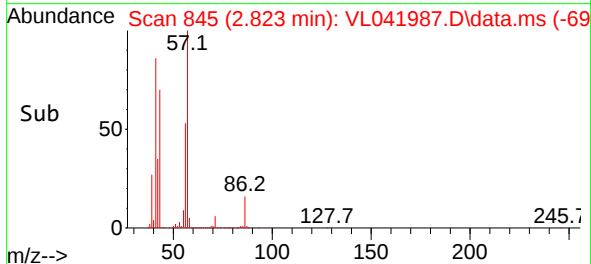
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 57 Resp: 228390
Ion Ratio Lower Upper
57 100
41 87.7 73.8 110.8
43 73.9 197.3 295.9
56 54.0 42.7 64.1

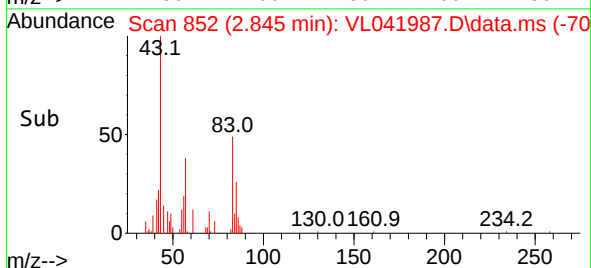
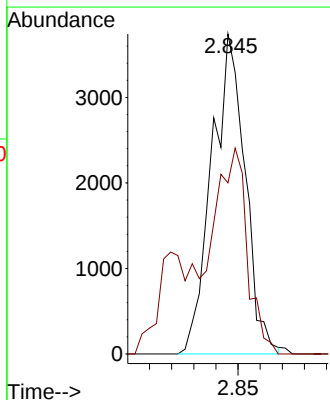
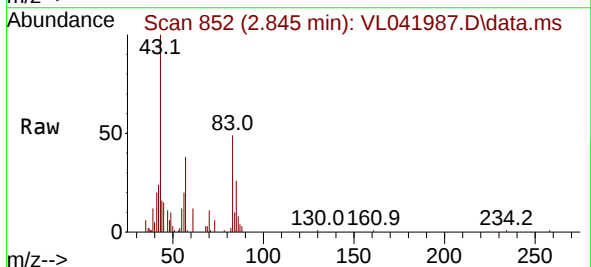
Manual Integrations
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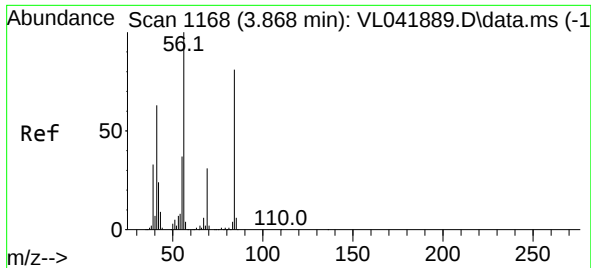
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#29
Chloroform
Concen: 0.129 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.013 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

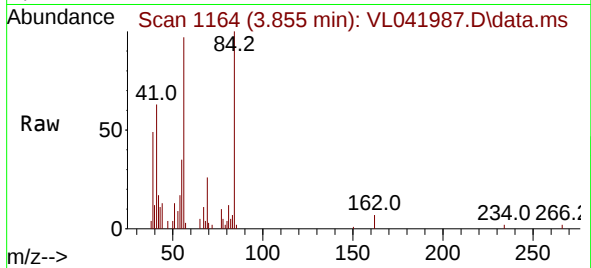
Tgt Ion: 83 Resp: 3909
Ion Ratio Lower Upper
83 100
85 53.5 50.1 75.1





#30
Cyclohexane
Concen: 0.307 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.013 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

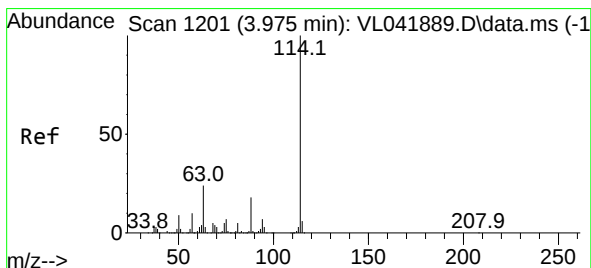
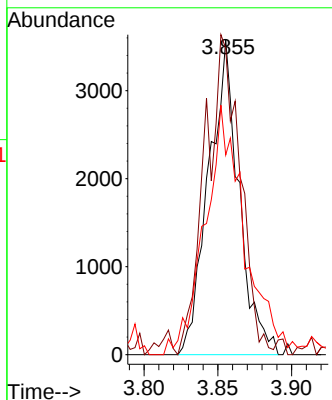
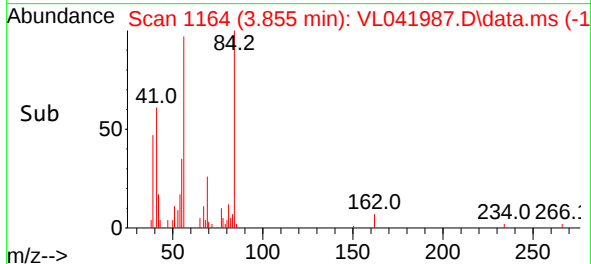
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 84 Resp: 5110
Ion Ratio Lower Upper
84 100
56 120.8 99.3 148.9
41 103.2 64.3 96.5

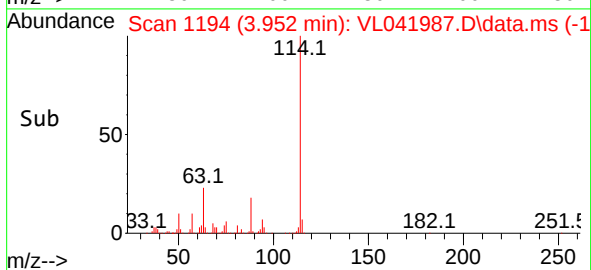
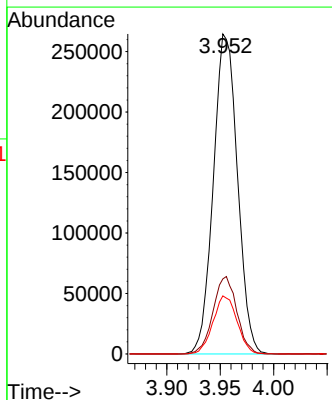
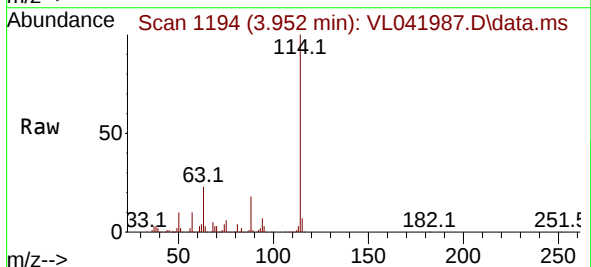
Manual Integrations
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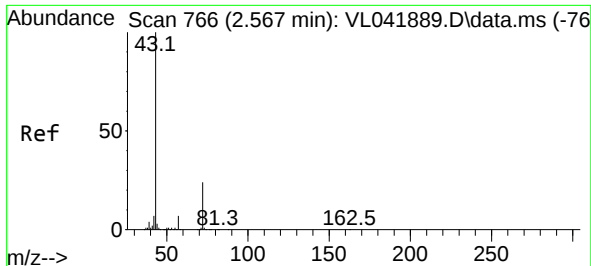
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.022 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

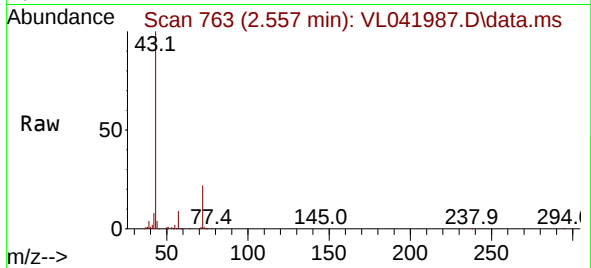
Tgt Ion:114 Resp: 415477
Ion Ratio Lower Upper
114 100
63 23.9 19.8 29.6
88 18.1 14.4 21.6





#34
2-Butanone
Concen: 3.522 ppbv
RT: 2.557 min Scan# 70
Delta R.T. -0.009 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

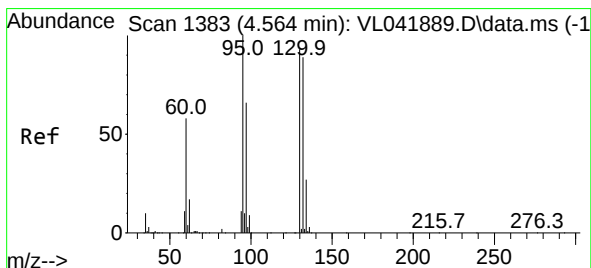
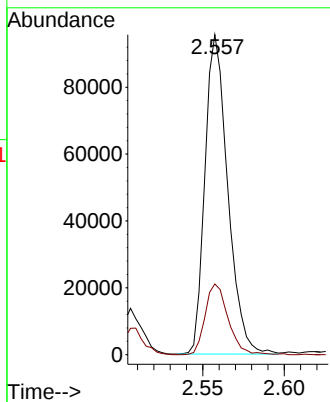
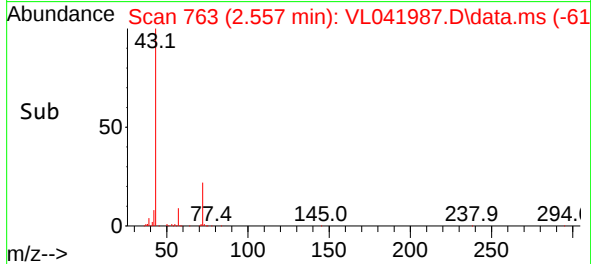
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 43 Resp: 9306
Ion Ratio Lower Upper
43 100
72 22.3 18.6 28.0

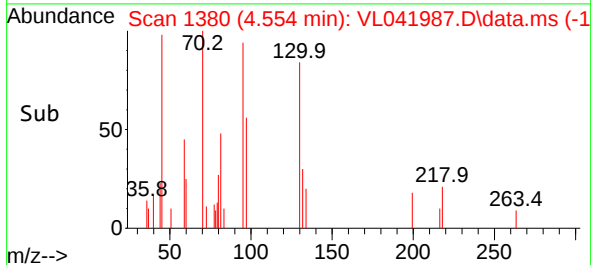
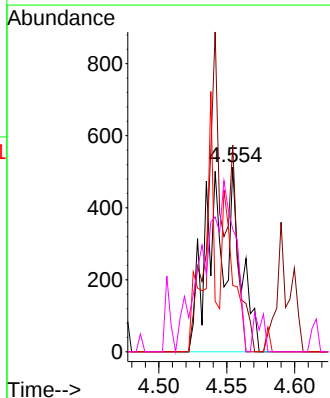
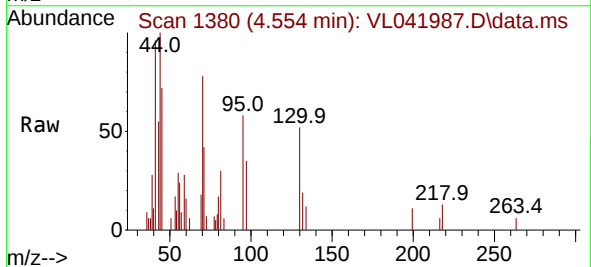
Manual Integrations
APPROVED

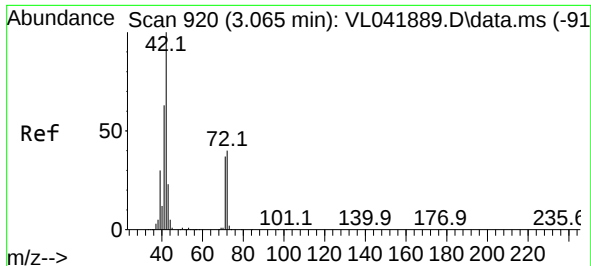
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#38
Trichloroethene
Concen: 0.048 ppbv m
RT: 4.554 min Scan# 1380
Delta R.T. -0.009 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Tgt Ion:130 Resp: 733
Ion Ratio Lower Upper
130 100
95 111.9 85.8 128.8
132 35.9 76.5 114.7#
97 66.5 56.8 85.2





#41

Tetrahydrofuran

Concen: 4.381 ppbv

RT: 3.056 min Scan# 917

Delta R.T. -0.009 min

Lab File: VL041987.D

Acq: 10 Feb 2025 14:39

Instrument :

MSVOA_L

ClientSampleId :

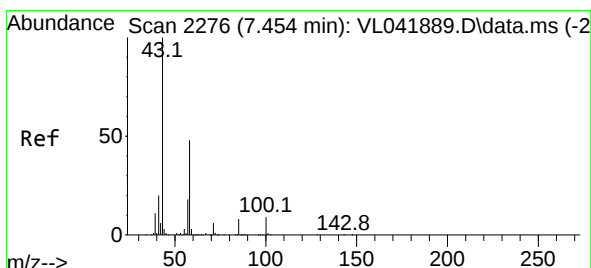
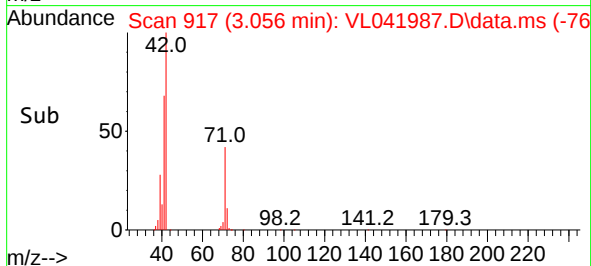
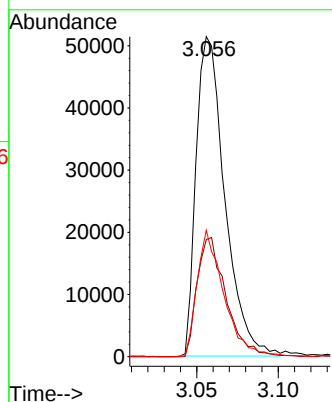
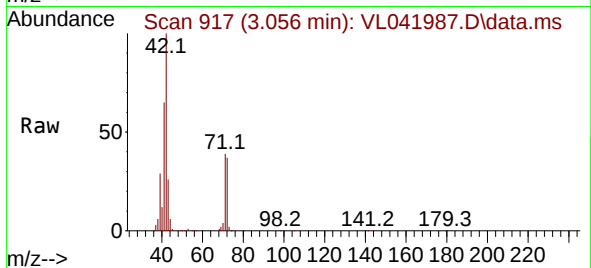
SV2

Tgt Ion:	42	Resp:	6290
Ion	Ratio	Lower	Upper
42	100		
72	37.7	32.3	48.5
71	37.2	29.9	44.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#51

2-Hexanone

Concen: 13.619 ppbv

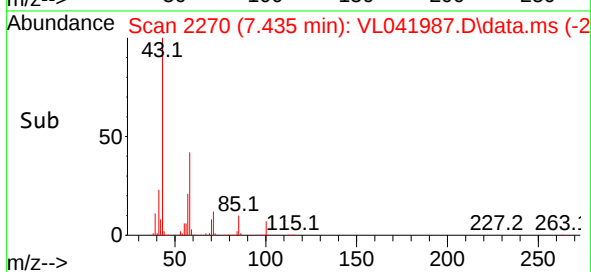
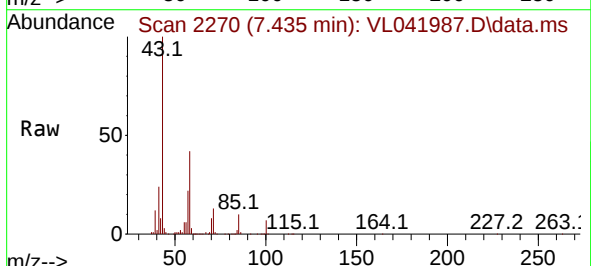
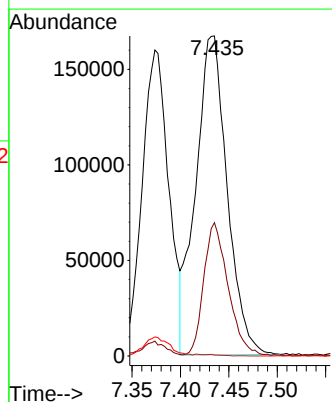
RT: 7.435 min Scan# 2270

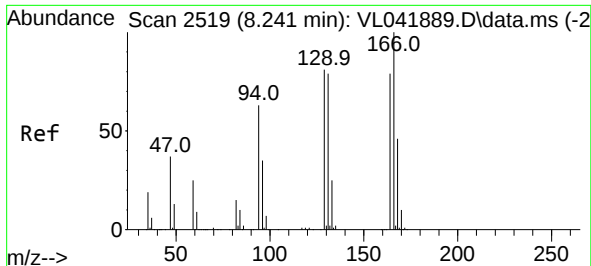
Delta R.T. -0.019 min

Lab File: VL041987.D

Acq: 10 Feb 2025 14:39

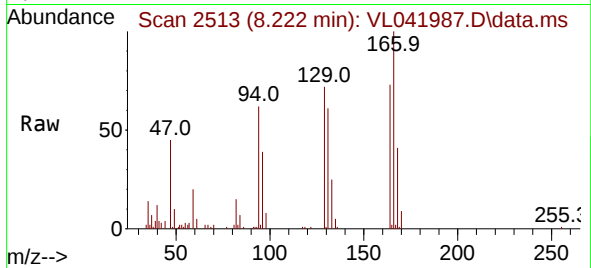
Tgt Ion:	43	Resp:	377479
Ion	Ratio	Lower	Upper
43	100		
58	32.7	40.4	60.6#
98	0.0	0.2	0.2#





#52
Tetrachloroethene
Concen: 0.751 ppbv
RT: 8.222 min Scan# 2113
Delta R.T. -0.019 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

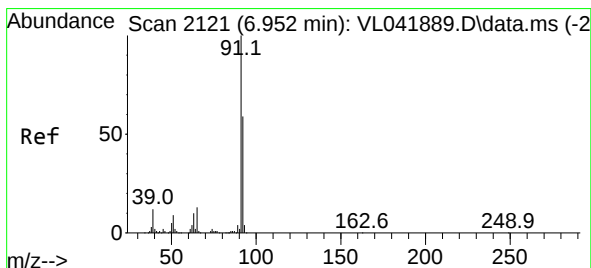
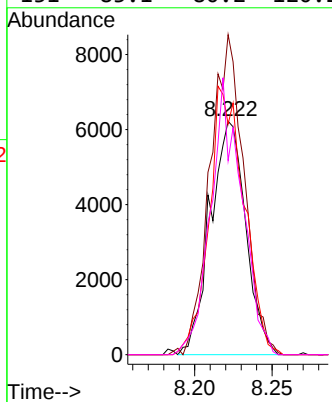
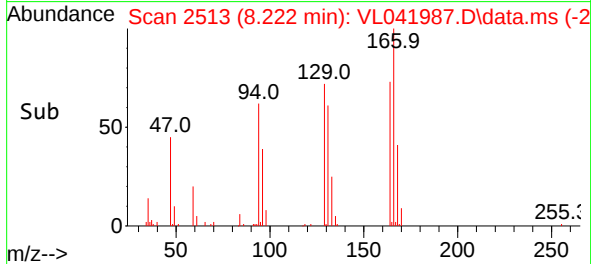
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:164 Resp: 992
Ion Ratio Lower Upper
164 100
166 136.1 100.8 151.2
129 97.3 82.0 123.0
131 83.1 80.2 120.2

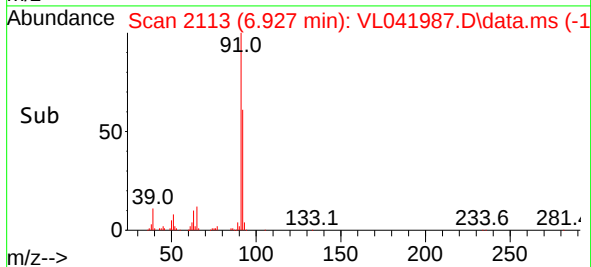
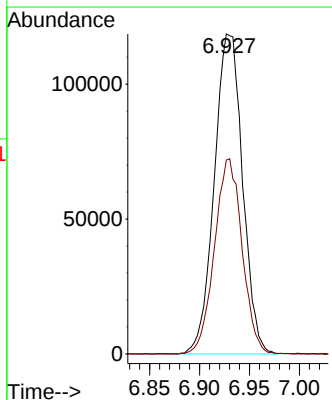
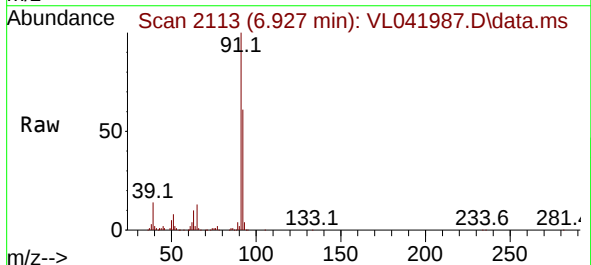
Manual Integrations
APPROVED

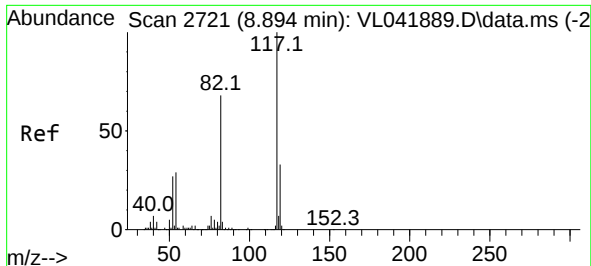
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#53
Toluene
Concen: 5.634 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.026 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Tgt Ion: 91 Resp: 233871
Ion Ratio Lower Upper
91 100
92 59.5 47.4 71.0





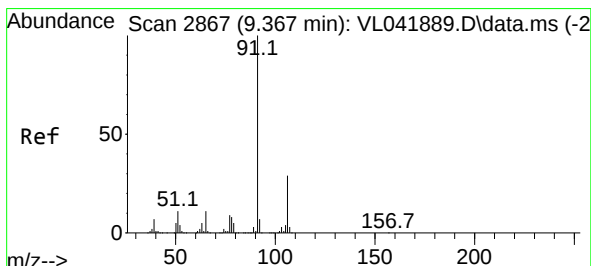
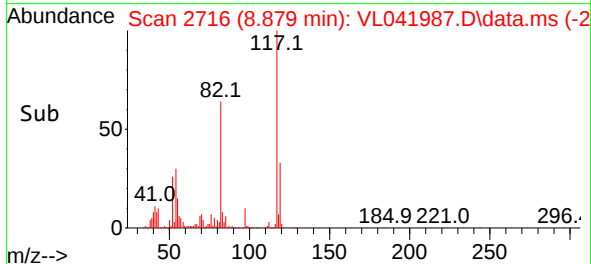
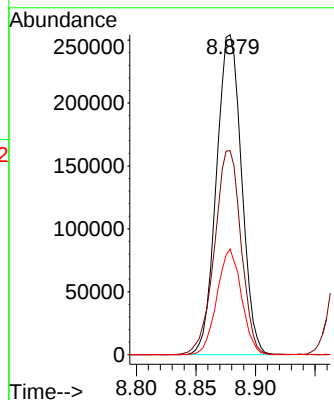
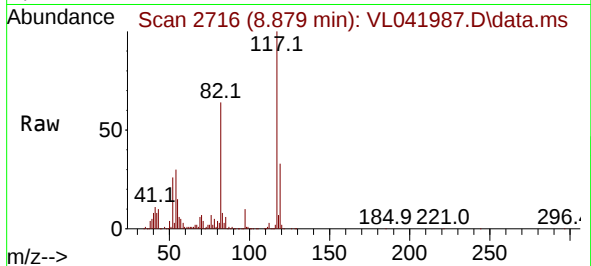
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2716
Delta R.T. -0.016 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 117 Resp: 373160
Ion Ratio Lower Upper
117 100
82 67.3 54.2 81.4
119 32.2 25.0 37.6

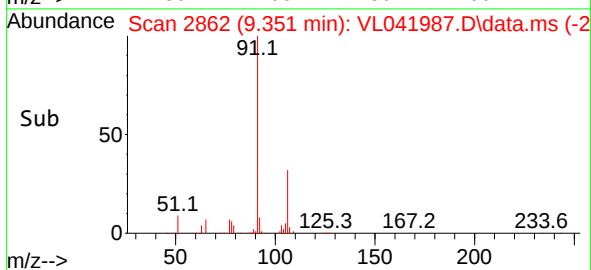
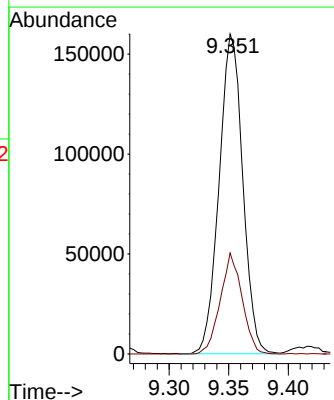
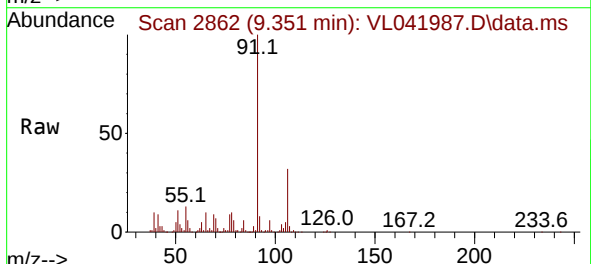
Manual Integrations
APPROVED

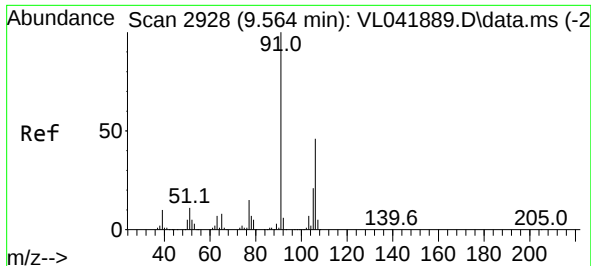
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#58
Ethyl Benzene
Concen: 3.776 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.016 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Tgt Ion: 91 Resp: 220202
Ion Ratio Lower Upper
91 100
106 31.6 23.1 34.7





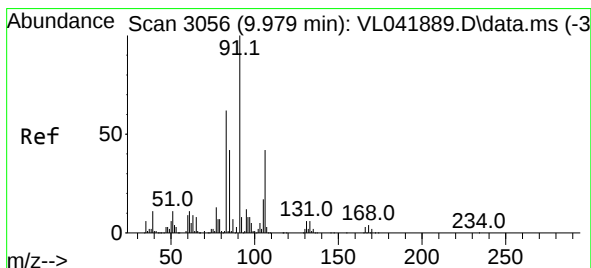
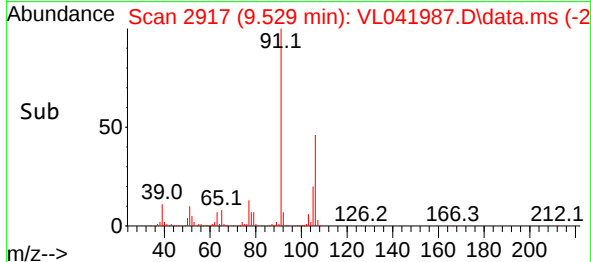
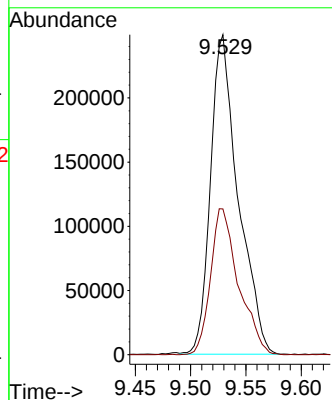
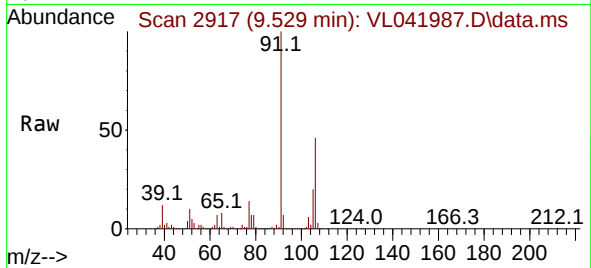
#59
m/p-Xylene
Concen: 9.282 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.035 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 43388
Ion Ratio Lower Upper
91 100
106 46.3 36.0 54.0

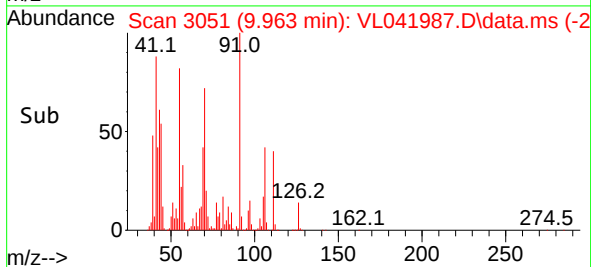
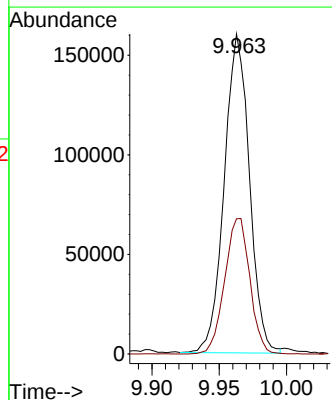
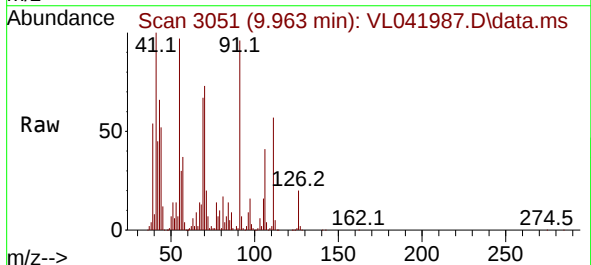
Manual Integrations
APPROVED

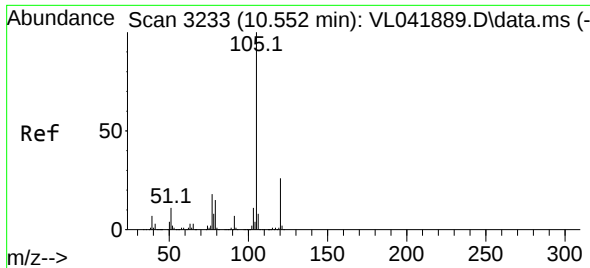
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#60
o-Xylene
Concen: 4.487 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.016 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

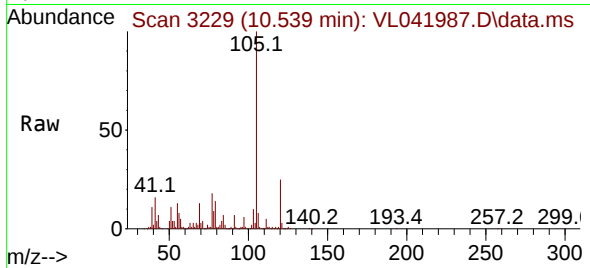
Tgt Ion: 91 Resp: 208171
Ion Ratio Lower Upper
91 100
106 42.5 21.3 63.9





#62
Isopropylbenzene
Concen: 1.947 ppbv
RT: 10.539 min Scan# 31
Delta R.T. -0.013 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

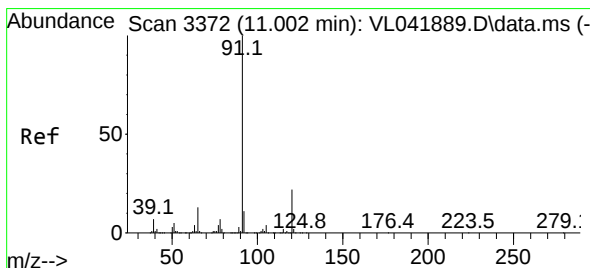
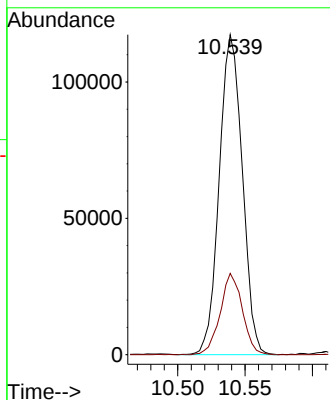
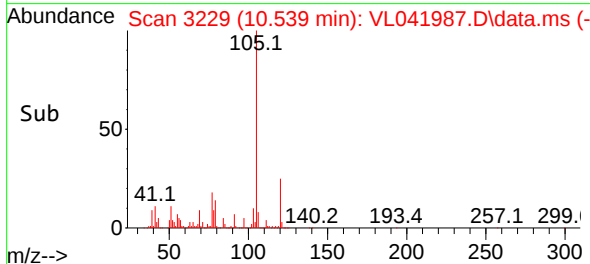
Instrument :
MSVOA_L
ClientSampleId :
SV2



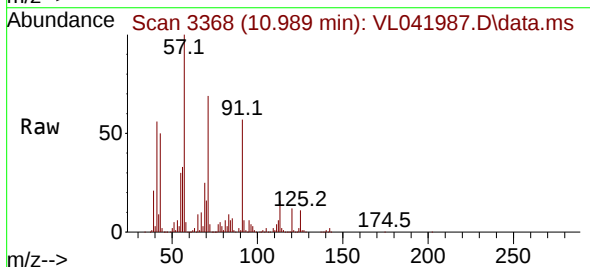
Tgt Ion:105 Resp: 13979
Ion Ratio Lower Upper
105 100
120 24.4 20.3 30.5

Manual Integrations
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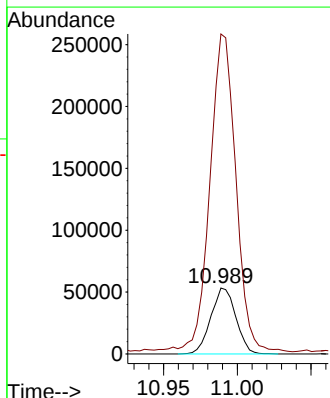
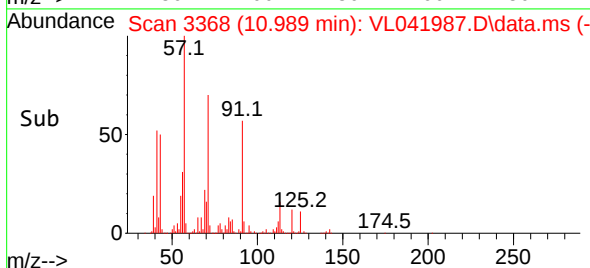
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

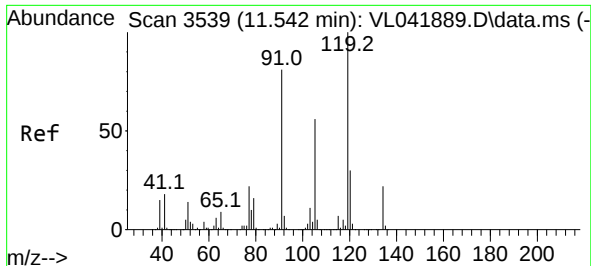


#64
n-propylbenzene
Concen: 3.458 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.013 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39



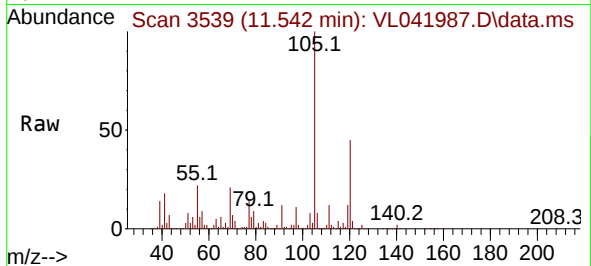
Tgt Ion:120 Resp: 62740
Ion Ratio Lower Upper
120 100
91 510.7 374.1 561.1





#65
tert-Butylbenzene
Concen: 1.034 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.000 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

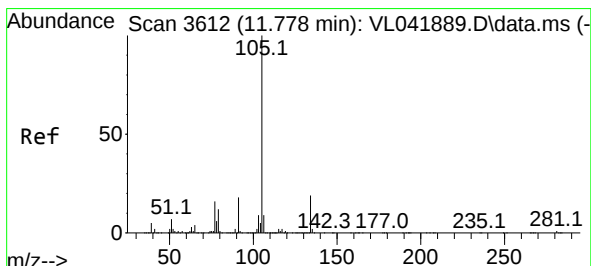
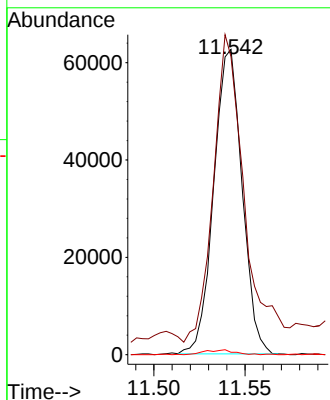
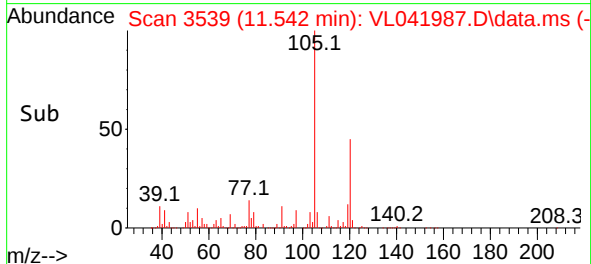
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:119 Resp: 6764
Ion Ratio Lower Upper
119 100
91 121.9 64.6 97.0
134 1.9 16.8 25.2

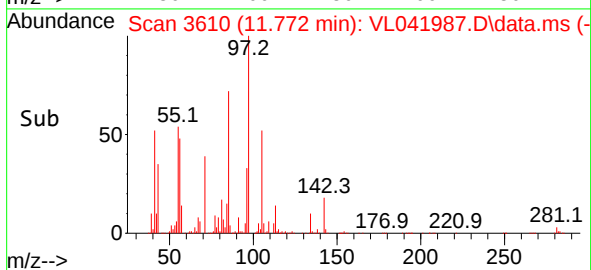
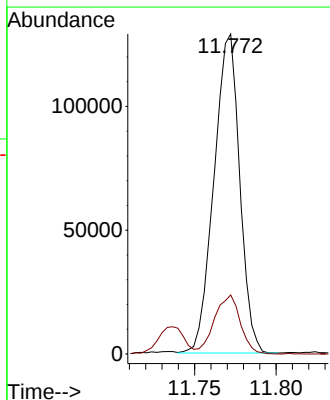
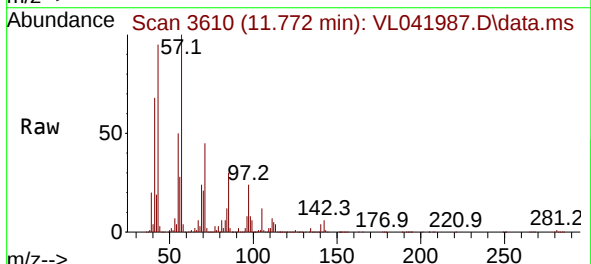
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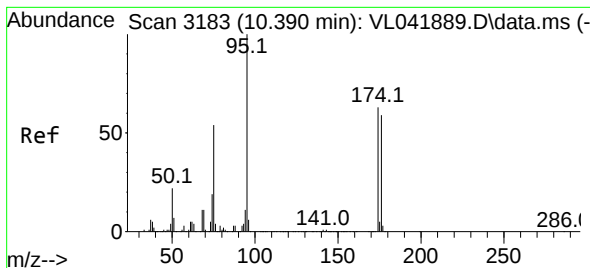
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#67
sec-Butylbenzene
Concen: 1.568 ppbv
RT: 11.772 min Scan# 3610
Delta R.T. -0.006 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Tgt Ion:105 Resp: 141296
Ion Ratio Lower Upper
105 100
134 18.4 15.1 22.7





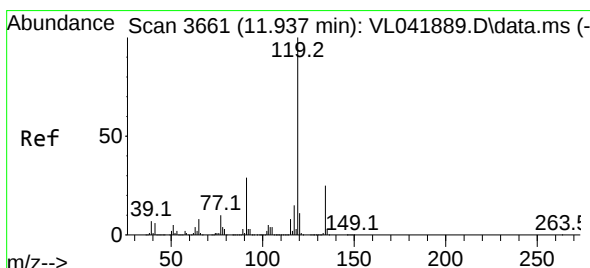
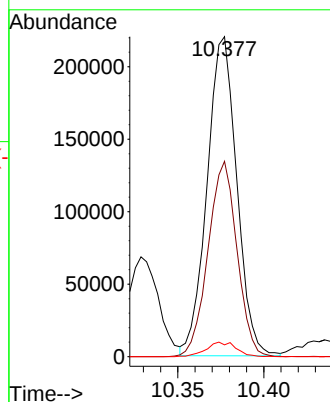
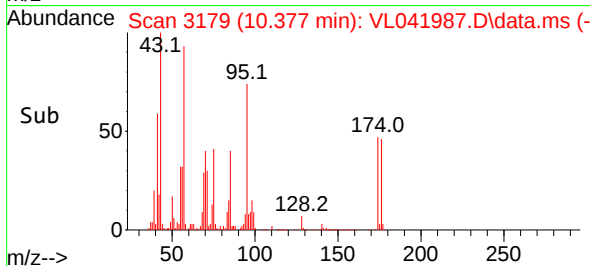
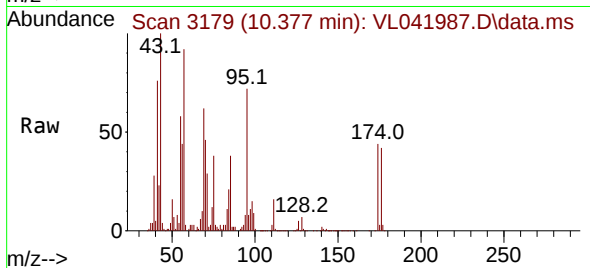
#68
1-Bromo-4-Fluorobenzene
Concen: 9.004 ppbv
RT: 10.377 min Scan# 3183
Delta R.T. -0.013 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 95 Resp: 26465
Ion Ratio Lower Upper
95 100
174 59.6 49.0 73.4
175 4.6 3.8 5.8

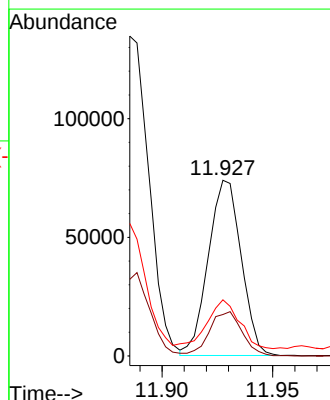
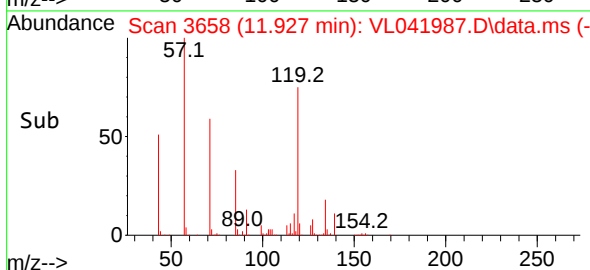
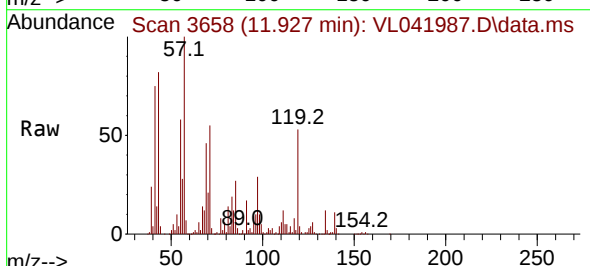
Manual Integrations
APPROVED

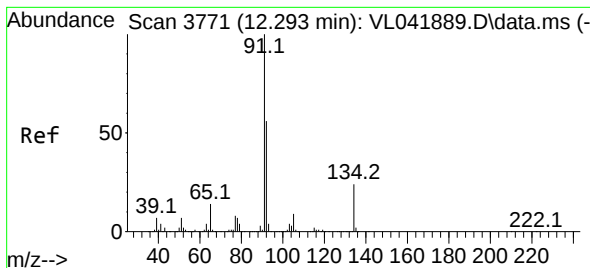
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#69
p-Isopropyltoluene
Concen: 1.029 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.009 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Tgt Ion:119 Resp: 76372
Ion Ratio Lower Upper
119 100
134 24.9 19.8 29.6
91 37.7 23.0 34.4#





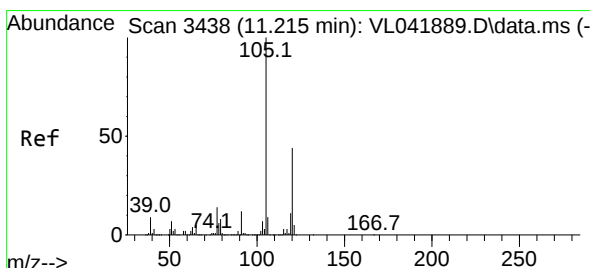
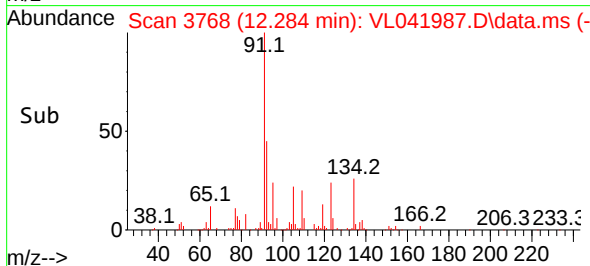
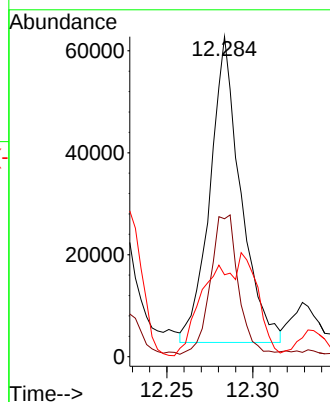
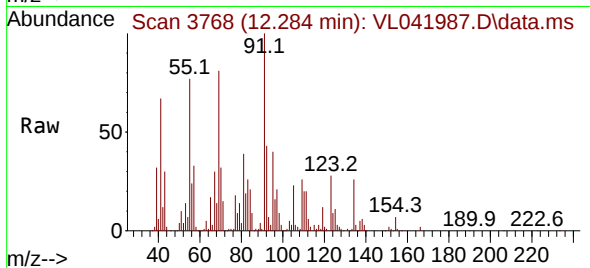
#70
n-Butylbenzene
Concen: 1.009 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. -0.009 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 74239
Ion Ratio Lower Upper
91 100
92 43.4 43.8 65.6
134 57.4 19.0 28.6

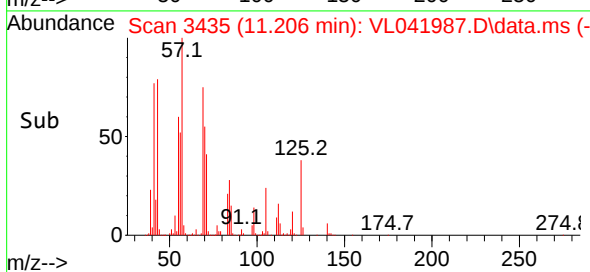
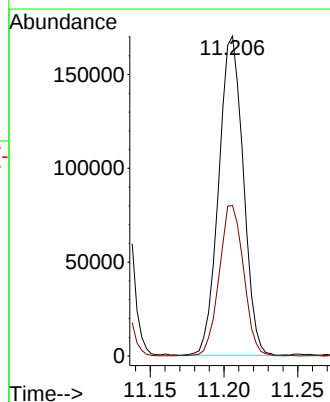
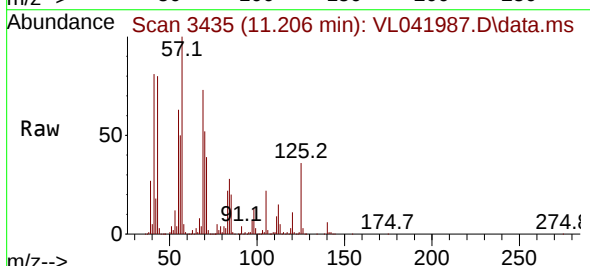
Manual Integrations
APPROVED

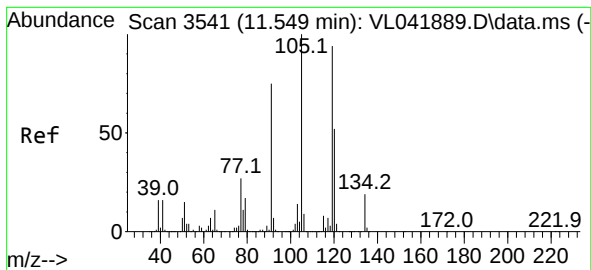
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#73
1,3,5-Trimethylbenzene
Concen: 4.024 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. -0.009 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

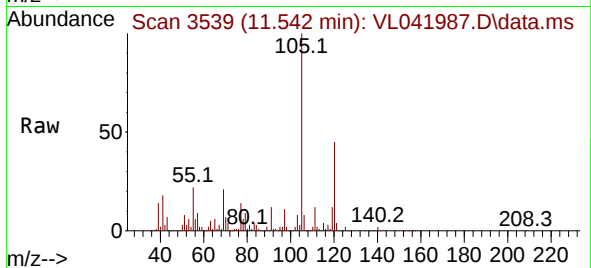
Tgt Ion:105 Resp: 197194
Ion Ratio Lower Upper
105 100
120 47.0 35.4 53.2





#74
 1,2,4-Trimethylbenzene
 Concen: 10.456 ppbv
 RT: 11.542 min Scan# 3539
 Delta R.T. -0.006 min
 Lab File: VL041987.D
 Acq: 10 Feb 2025 14:39

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



Tgt Ion:	105	Resp:	55499
Ion Ratio	Lower	Upper	
105	100		
120	45.3	41.4	62.2
91	11.1	60.2	90.2
77	12.5	22.0	33.0

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

