

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101024\
 Data File : VL041642.D
 Acq On : 10 Oct 2024 14:46
 Operator : SY/MD
 Sample : P4339-01DUP 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/11/2024
 Supervised By : Mahesh Dadoda 10/14/2024

Quant Time: Oct 11 05:41:04 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

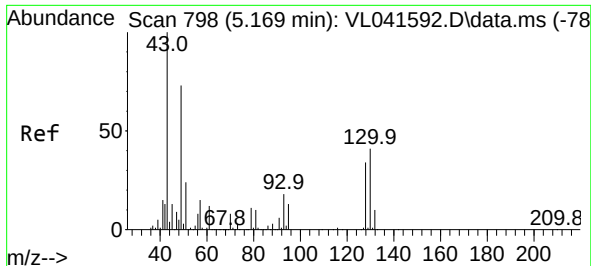
QLast Update : Tue Sep 17 09:12:21 2024

Response via : Initial Calibration

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

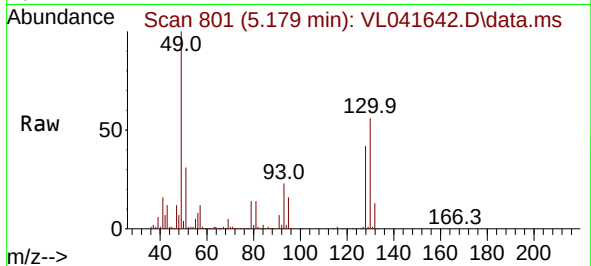
Internal Standards						
1) Bromochloromethane	5.179	49	1254921	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	3334107	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.458	117	3040255	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2296063	10.259	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.600%
Target Compounds						Qvalue
4) Chloromethane	2.790	50	39785	0.475	ppbv	98
9) Propene	2.671	41	5647757	87.966	ppbv	94
10) Heptane	7.571	43	1119846	7.450	ppbv	100
13) Ethanol	3.217	45	383225	79.394	ppbv	95
15) Acetone	3.446	43	6232789	39.561	ppbv	92
16) 1,3-Butadiene	2.944	39	2746476	35.841	ppbv #	33
17) tert-Butyl alcohol	3.864	59	633272	4.570	ppbv	98
20) Methylene Chloride	3.918	84	280427	4.738	ppbv	97
26) Hexane	5.198	57	836536	7.092	ppbv #	39
27) Carbon Disulfide	4.108	76	252882	2.017	ppbv	99
30) Cyclohexane	6.587	84	76996	0.847	ppbv	85
34) 2-Butanone	4.770	43	1836874	11.554	ppbv	97
36) Benzene	6.359	78	846407	3.656	ppbv	97
41) Tetrahydrofuran	5.549	42	57543m	0.658	ppbv	
44) 2,2,4-Trimethylpentane	7.320	57	234970	0.587	ppbv #	1
50) 4-Methyl-2-Pentanone	8.172	43	406601	1.656	ppbv	100
51) 2-Hexanone	9.539	43	277343	1.493	ppbv #	74
52) Tetrachloroethene	10.603	164	268567	3.203	ppbv	95
53) Toluene	9.211	91	3411494	13.880	ppbv	98
58) Ethyl Benzene	12.085	91	1281844	3.939	ppbv	96
59) m/p-Xylene	12.336	91	3303410	11.404	ppbv	97
60) o-Xylene	13.053	91	914387	3.293	ppbv	97
61) Styrene	12.883	104	17246m	0.149	ppbv	
72) 4-Ethyltoluene	15.188	105	206817	0.637	ppbv #	91
73) 1,3,5-Trimethylbenzene	15.349	105	100310m	0.350	ppbv	
74) 1,2,4-Trimethylbenzene	16.098	105	415906	1.240	ppbv #	69

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.179 min Scan# 801
Delta R.T. 0.010 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

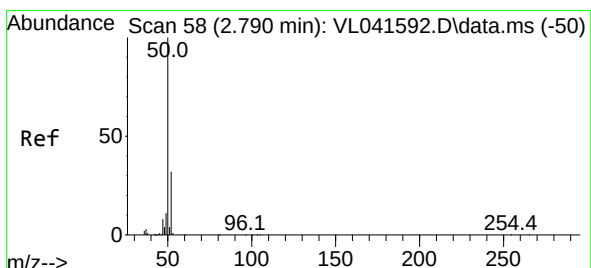
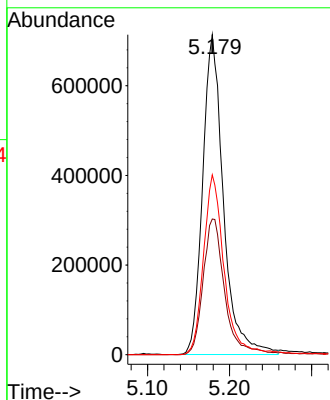
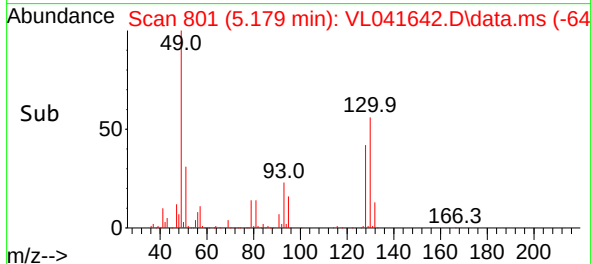
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 125492
Ion Ratio Lower Upper
49 100
128 44.4 23.8 71.5
130 57.1 30.4 91.3

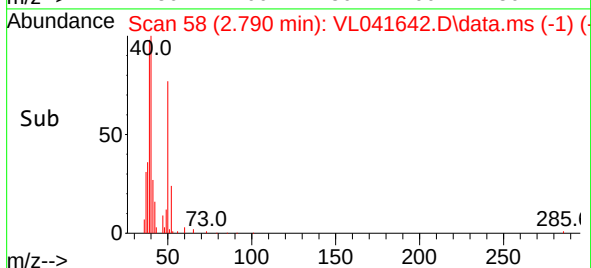
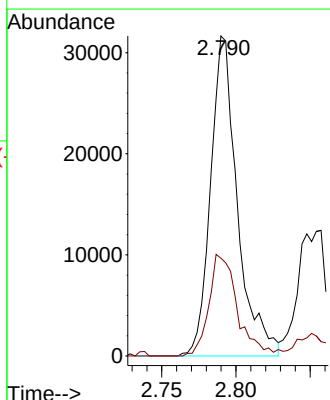
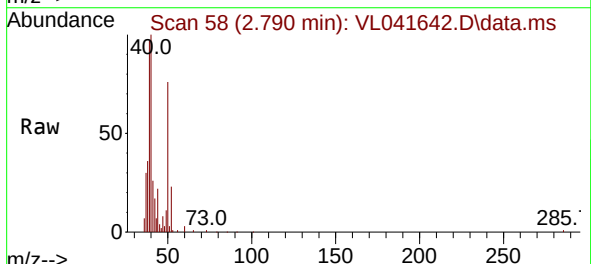
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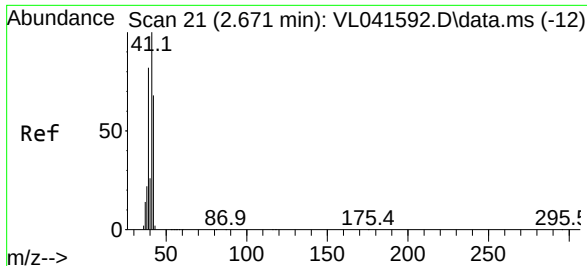
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#4
Chloromethane
Concen: 0.475 ppbv
RT: 2.790 min Scan# 58
Delta R.T. 0.000 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

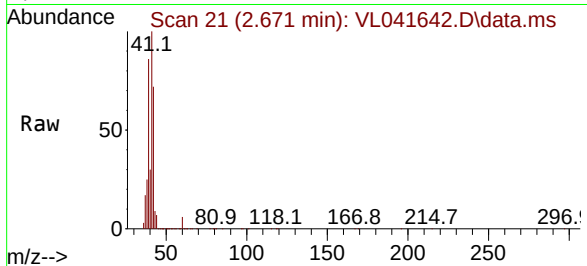
Tgt Ion: 50 Resp: 39785
Ion Ratio Lower Upper
50 100
52 30.6 25.4 38.2





#9
 Propene
 Concen: 87.966 ppbv
 RT: 2.671 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VL041642.D
 Acq: 10 Oct 2024 14:46

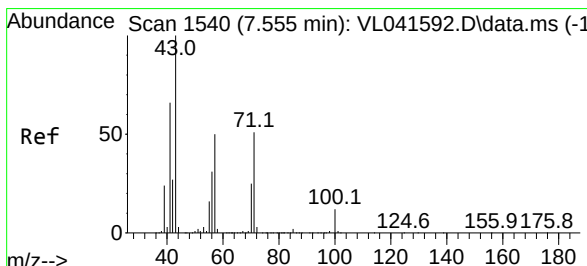
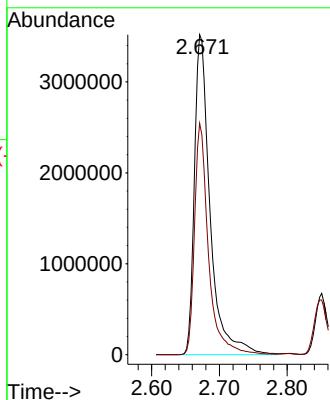
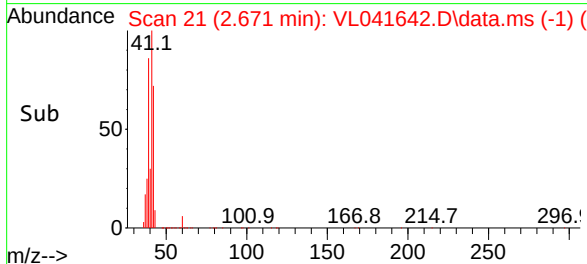
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



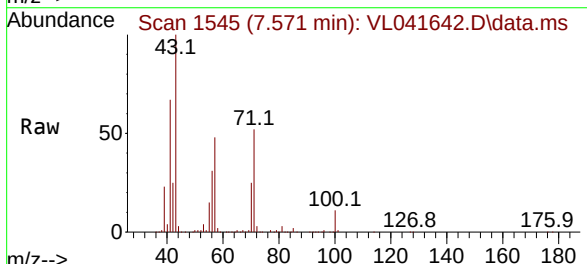
Tgt Ion: 41 Resp: 564775
 Ion Ratio Lower Upper
 41 100
 42 64.5 55.2 82.8

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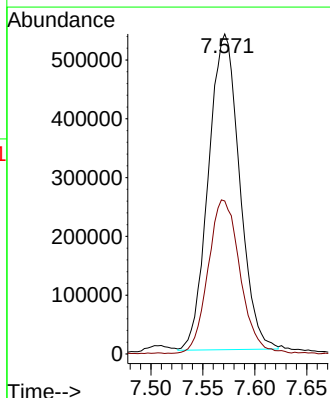
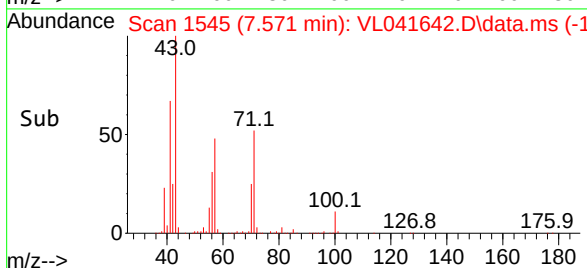
Reviewed By :Semsettin Yesilyurt 10/11/2024
 Supervised By :Mahesh Dadoda 10/14/2024

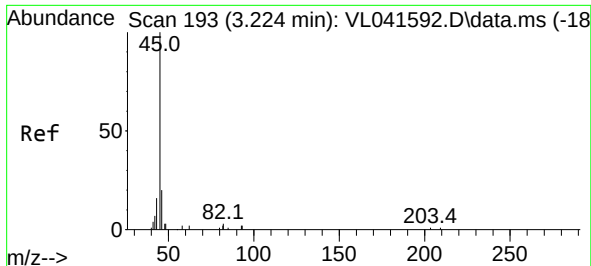


#10
 Heptane
 Concen: 7.450 ppbv
 RT: 7.571 min Scan# 1545
 Delta R.T. 0.016 min
 Lab File: VL041642.D
 Acq: 10 Oct 2024 14:46



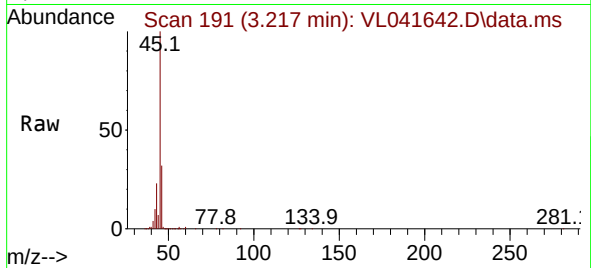
Tgt Ion: 43 Resp: 1119846
 Ion Ratio Lower Upper
 43 100
 57 50.1 39.8 59.8





#13
Ethanol
Concen: 79.394 ppbv
RT: 3.217 min Scan# 193
Delta R.T. -0.006 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

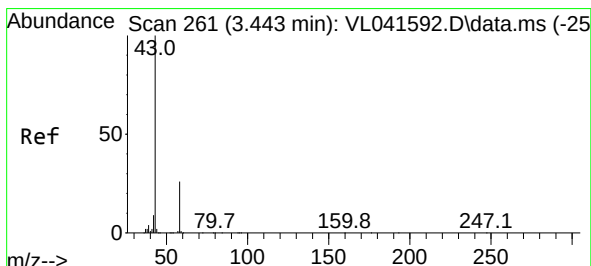
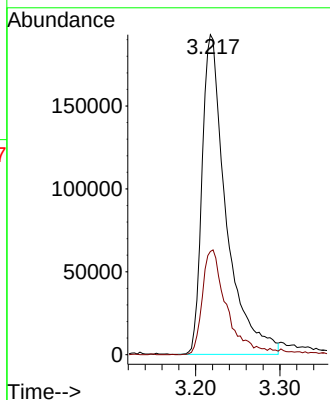
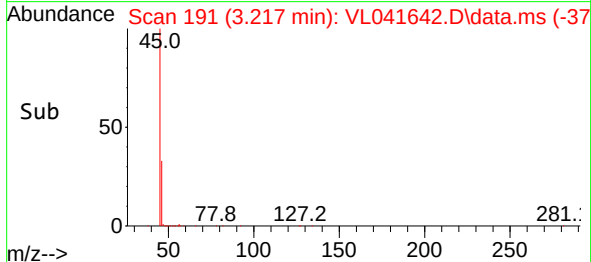
Instrument :
MSVOA_L
ClientSampleId :
SV1



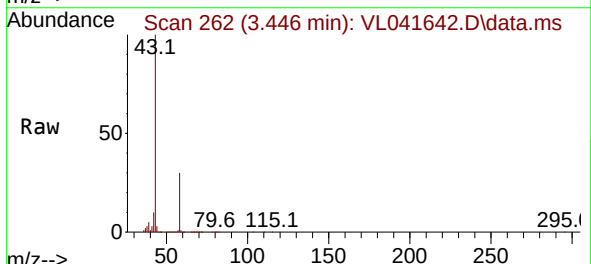
Tgt Ion: 45 Resp: 383225
Ion Ratio Lower Upper
45 100
46 34.8 15.2 60.8

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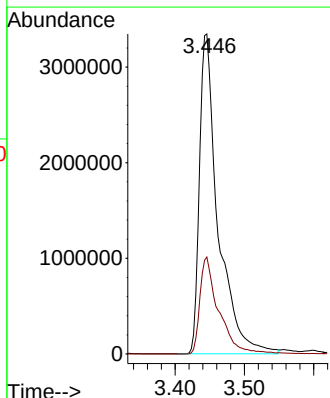
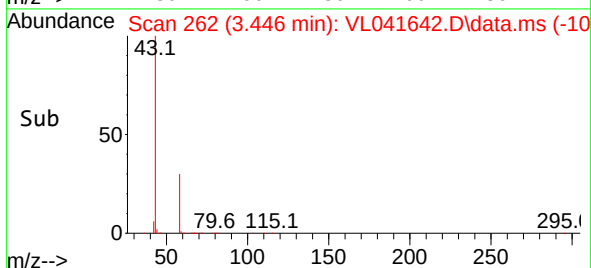
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024

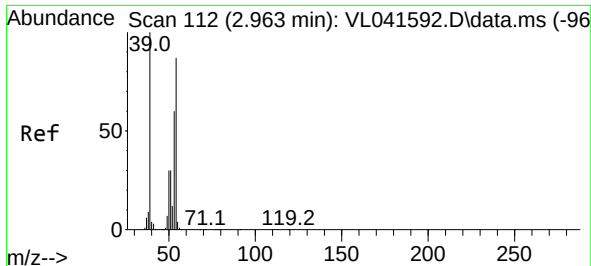


#15
Acetone
Concen: 39.561 ppbv
RT: 3.446 min Scan# 262
Delta R.T. 0.003 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46



Tgt Ion: 43 Resp: 6232789
Ion Ratio Lower Upper
43 100
58 31.1 21.5 32.3





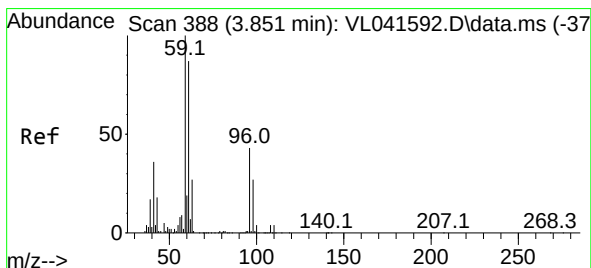
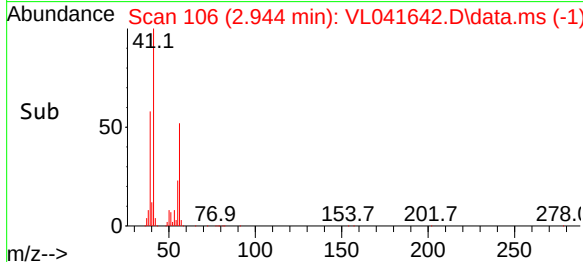
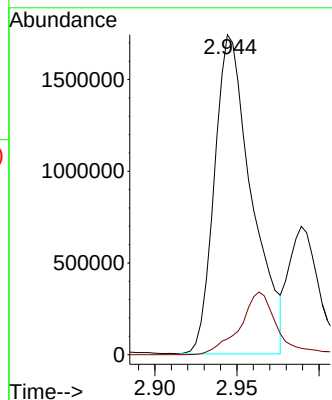
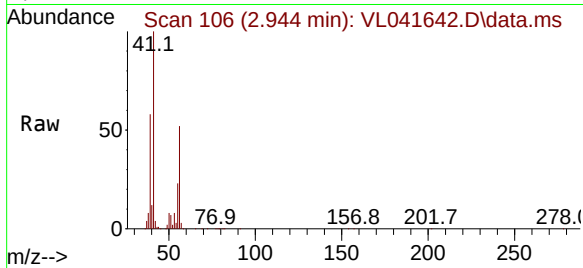
#16
1,3-Butadiene
Concen: 35.841 ppbv
RT: 2.944 min Scan# 106
Delta R.T. -0.019 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 39 Resp: 2746470
Ion Ratio Lower Upper
39 100
54 19.8 62.9 94.3

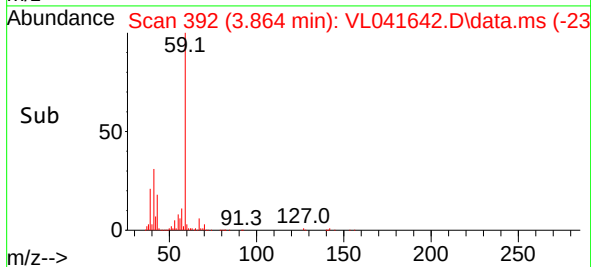
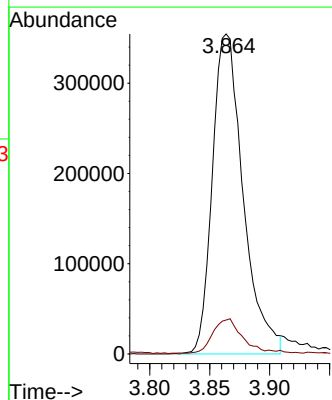
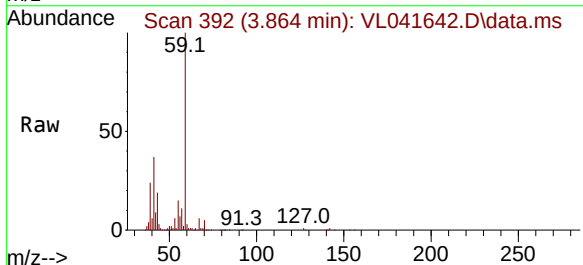
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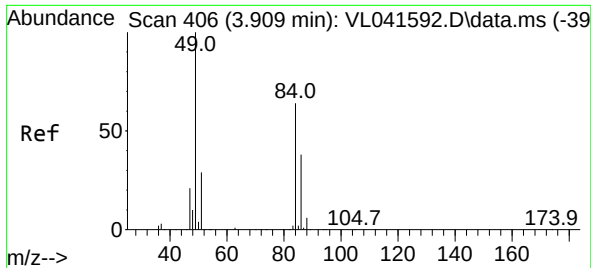
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#17
tert-Butyl alcohol
Concen: 4.570 ppbv
RT: 3.864 min Scan# 392
Delta R.T. 0.013 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

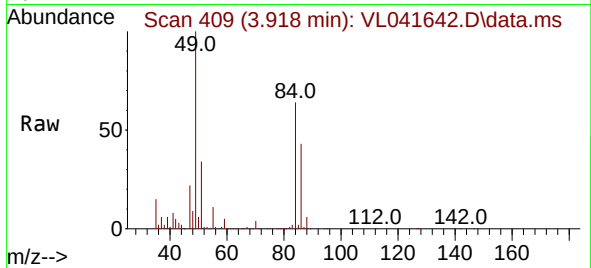
Tgt Ion: 59 Resp: 633272
Ion Ratio Lower Upper
59 100
57 11.5 8.7 13.1





#20
Methylene Chloride
Concen: 4.738 ppbv
RT: 3.918 min Scan# 409
Delta R.T. 0.010 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

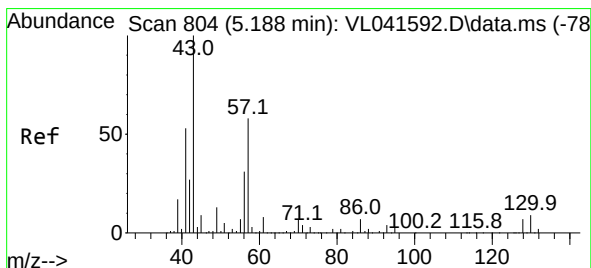
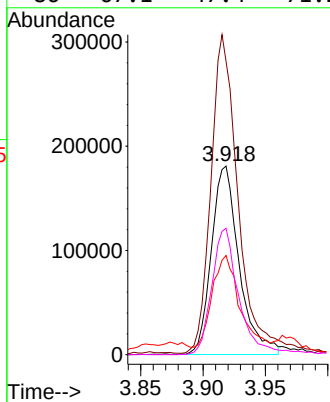
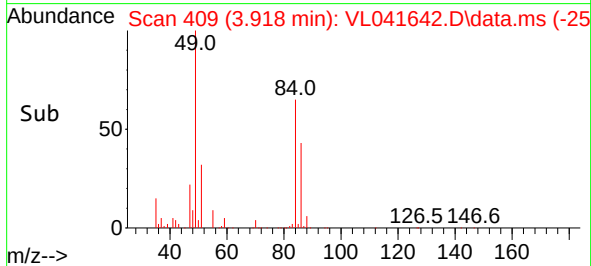
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 84 Resp: 280427
Ion Ratio Lower Upper
84 100
49 155.1 124.3 186.5
51 47.3 36.3 54.5
86 67.1 47.4 71.2

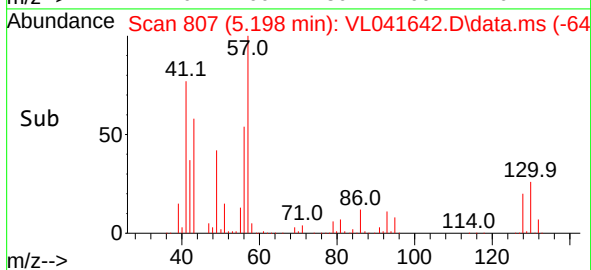
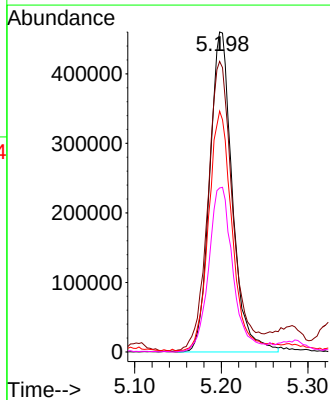
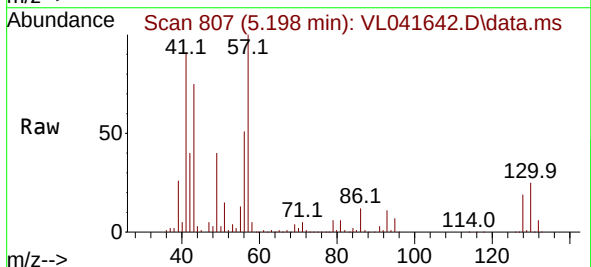
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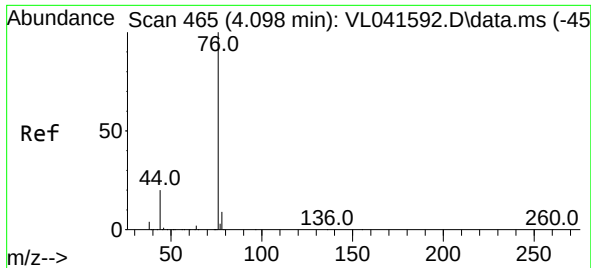
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#26
Hexane
Concen: 7.092 ppbv
RT: 5.198 min Scan# 807
Delta R.T. 0.010 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

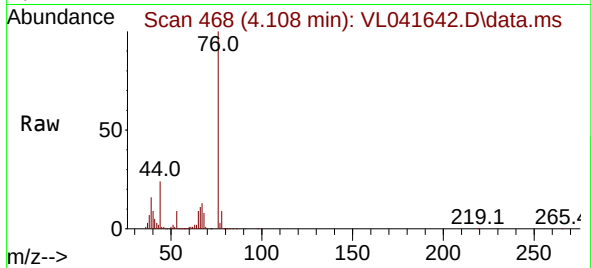
Tgt Ion: 57 Resp: 836536
Ion Ratio Lower Upper
57 100
41 98.6 75.7 113.5
43 81.7 198.5 297.7#
56 56.2 44.1 66.1





#27
Carbon Disulfide
Concen: 2.017 ppbv
RT: 4.108 min Scan# 40
Delta R.T. 0.010 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

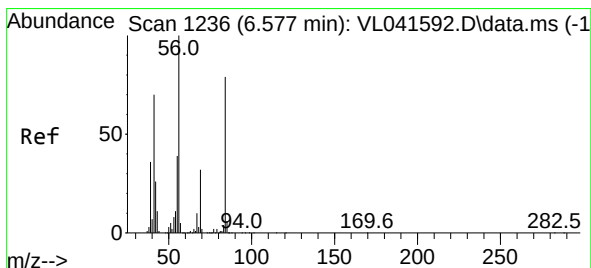
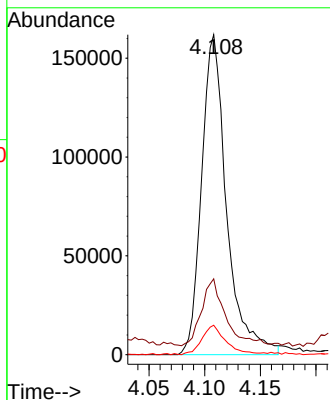
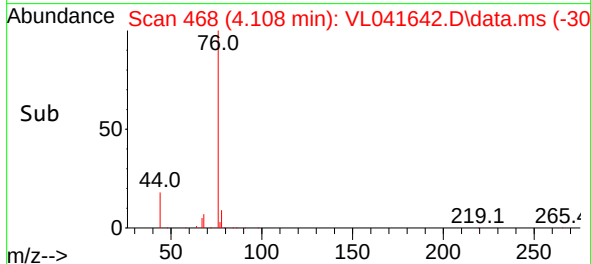
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 76 Resp: 25288
Ion Ratio Lower Upper
76 100
44 20.1 15.8 23.8
78 9.4 7.5 11.3

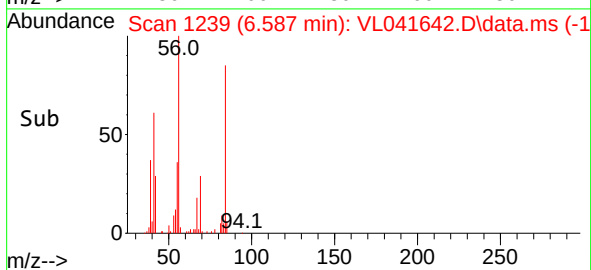
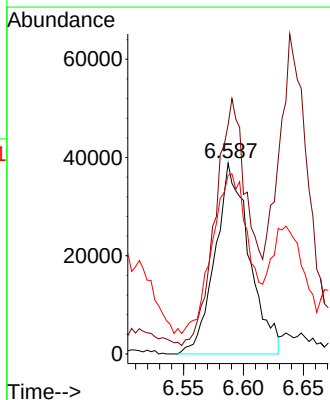
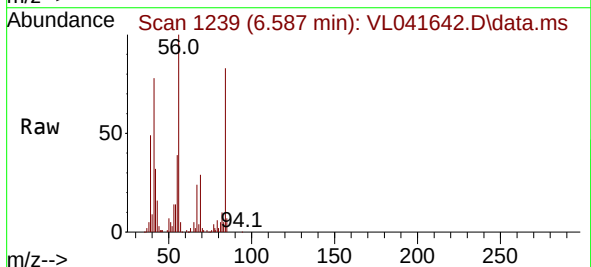
Manual Integrations
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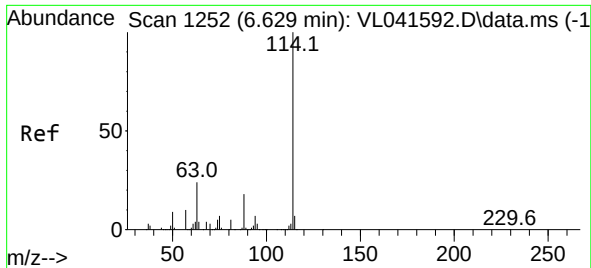
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#30
Cyclohexane
Concen: 0.847 ppbv
RT: 6.587 min Scan# 1239
Delta R.T. 0.010 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

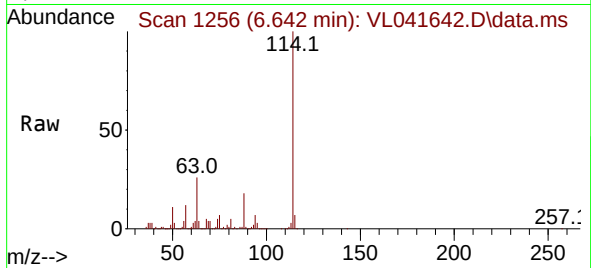
Tgt Ion: 84 Resp: 76996
Ion Ratio Lower Upper
84 100
56 118.4 111.5 167.3
41 100.2 70.9 106.3





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.642 min Scan# 114
Delta R.T. 0.013 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

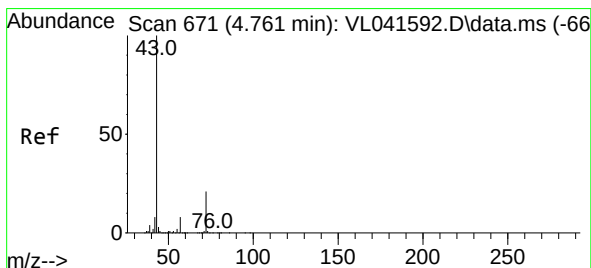
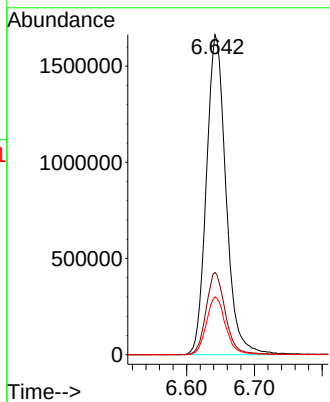
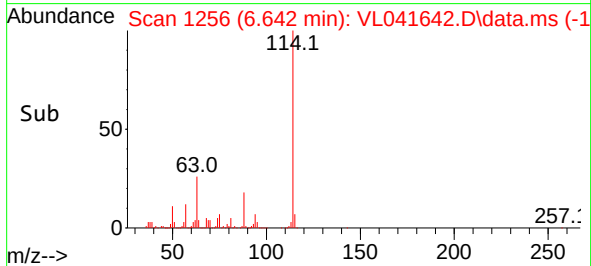
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:114 Resp: 333410
Ion Ratio Lower Upper
114 100
63 25.6 20.2 30.2
88 17.8 14.2 21.4

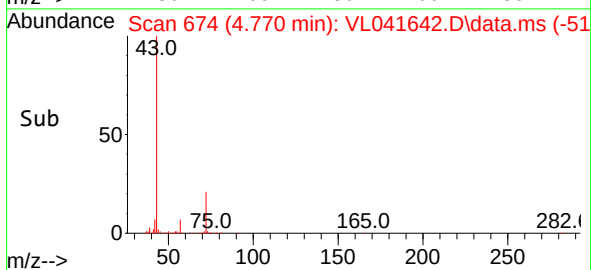
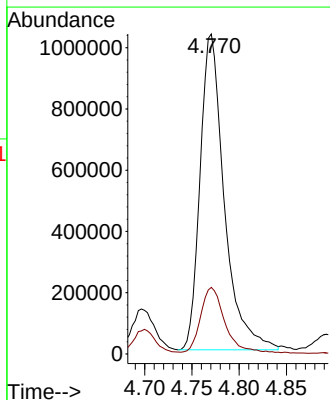
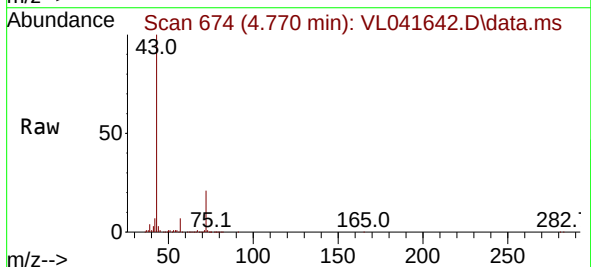
Manual Integrations
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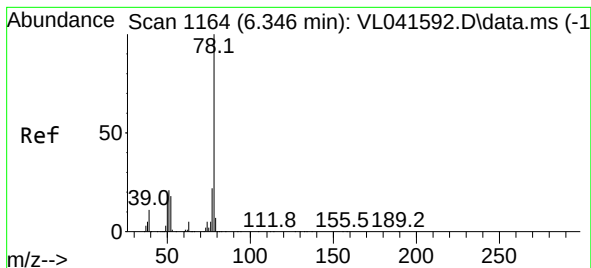
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#34
2-Butanone
Concen: 11.554 ppbv
RT: 4.770 min Scan# 674
Delta R.T. 0.010 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

Tgt Ion: 43 Resp: 1836874
Ion Ratio Lower Upper
43 100
72 22.5 16.8 25.2





#36

Benzene

Concen: 3.656 ppbv

RT: 6.359 min Scan# 1168

Delta R.T. 0.013 min

Lab File: VL041642.D

Acq: 10 Oct 2024 14:46

Instrument :

MSVOA_L

ClientSampleId :

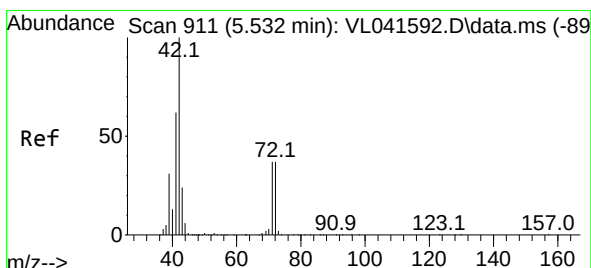
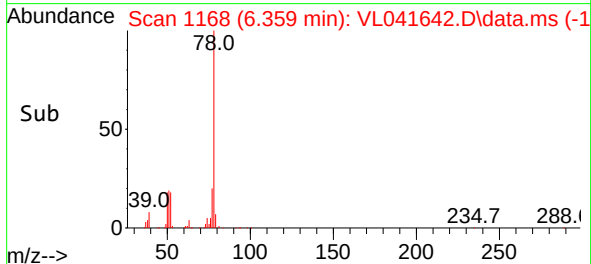
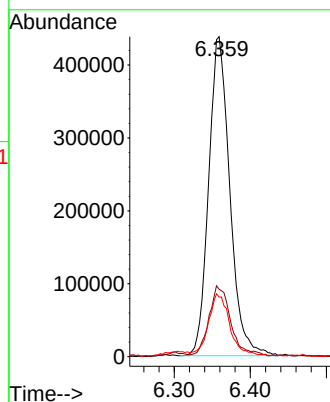
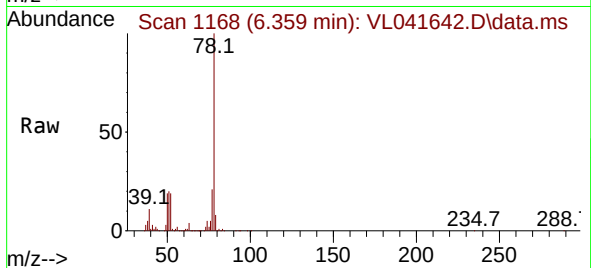
SV1

Tgt Ion:	78	Resp:	84640
Ion	Ratio	Lower	Upper
78	100		
77	20.7	17.8	26.6
50	18.2	15.4	23.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#41

Tetrahydrofuran

Concen: 0.658 ppbv m

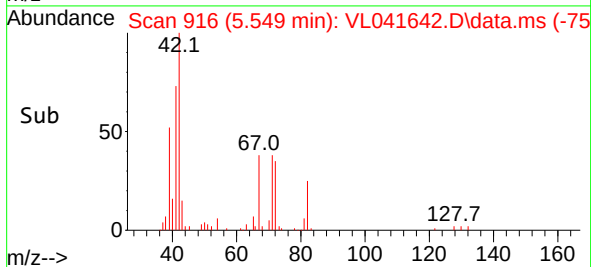
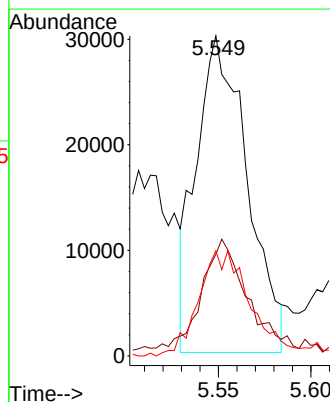
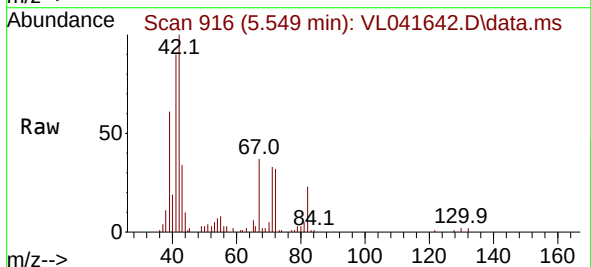
RT: 5.549 min Scan# 916

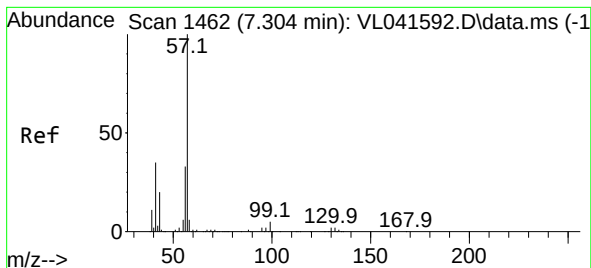
Delta R.T. 0.016 min

Lab File: VL041642.D

Acq: 10 Oct 2024 14:46

Tgt Ion:	42	Resp:	57543
Ion	Ratio	Lower	Upper
42	100		
72	41.2	30.2	45.2
71	35.6	29.6	44.4





#44

2,2,4-Trimethylpentane

Concen: 0.587 ppbv

RT: 7.320 min Scan# 1462

Delta R.T. 0.016 min

Lab File: VL041642.D

Acq: 10 Oct 2024 14:46

Instrument :

MSVOA_L

ClientSampleId :

SV1

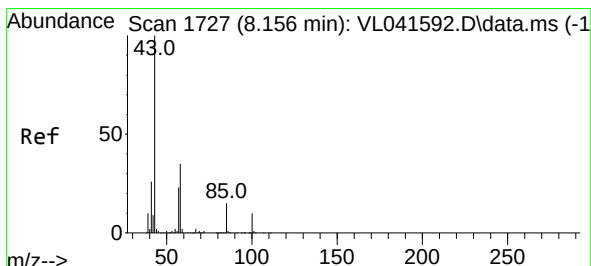
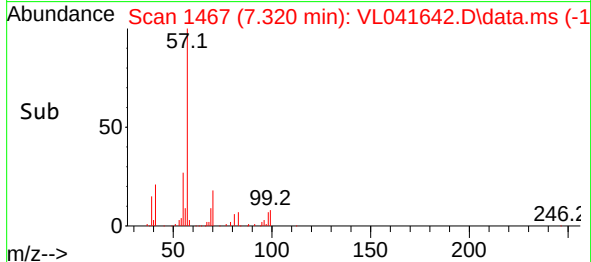
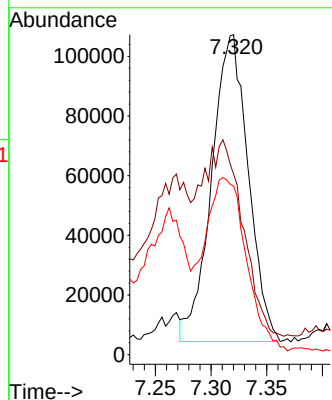
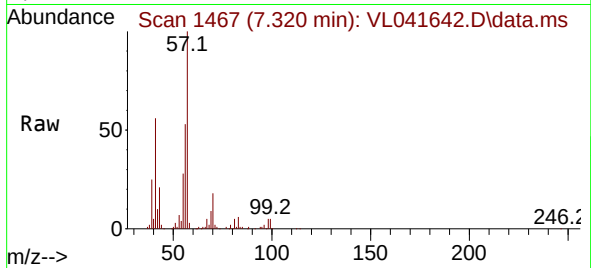
Tgt Ion: 57 Resp: 234970

Ion	Ratio	Lower	Upper
57	100		
41	141.0	27.0	40.6
56	66.8	25.5	38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#50

4-Methyl-2-Pentanone

Concen: 1.656 ppbv

RT: 8.172 min Scan# 1732

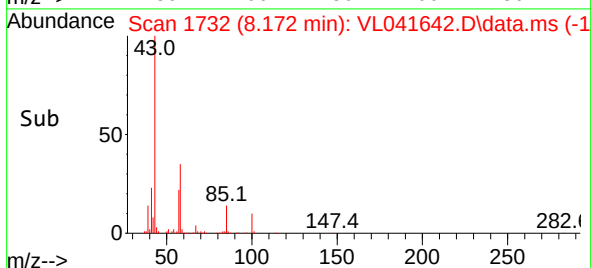
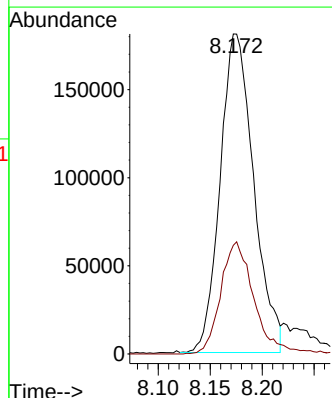
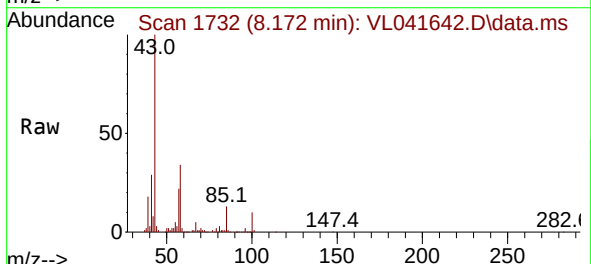
Delta R.T. 0.016 min

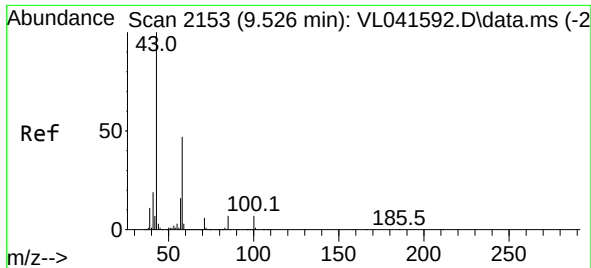
Lab File: VL041642.D

Acq: 10 Oct 2024 14:46

Tgt Ion: 43 Resp: 406601

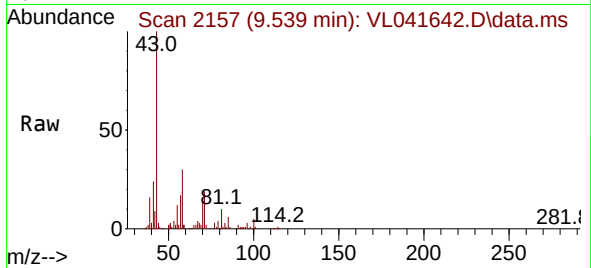
Ion	Ratio	Lower	Upper
43	100		
58	35.1	27.8	41.8





#51
2-Hexanone
Concen: 1.493 ppbv
RT: 9.539 min Scan# 2153
Delta R.T. 0.013 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

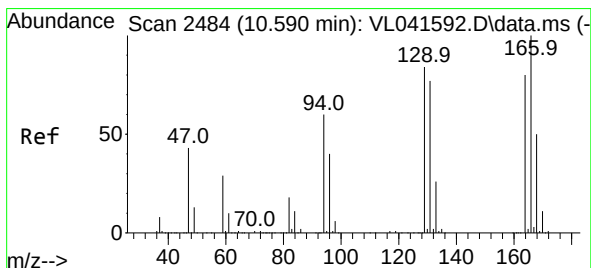
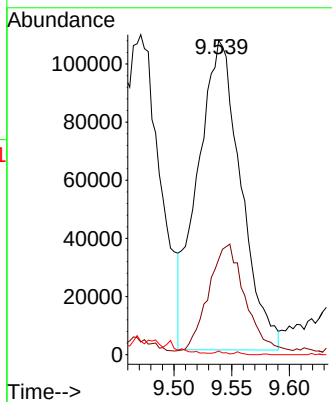
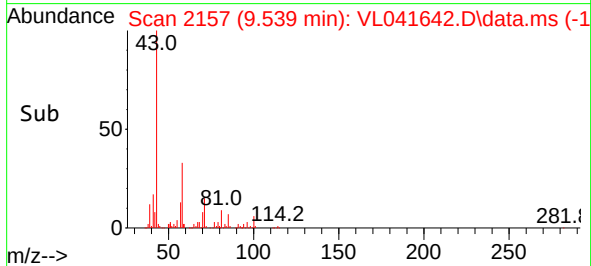
Instrument :
MSVOA_L
ClientSampleId :
SV1



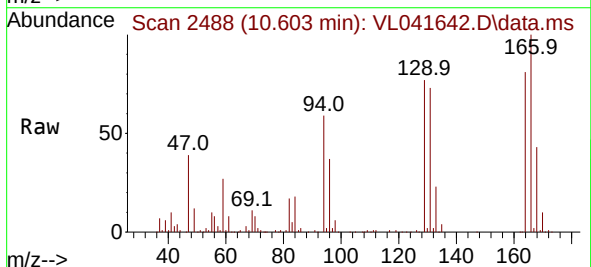
Tgt Ion: 43 Resp: 27734
Ion Ratio Lower Upper
43 100
58 28.9 37.2 55.8
98 0.0 0.5 0.7

Manual Integrations
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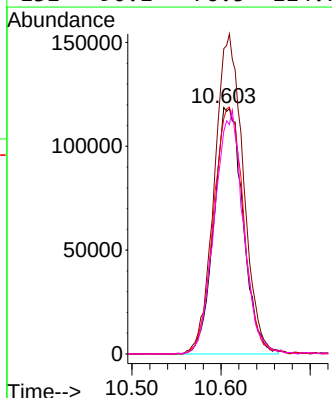
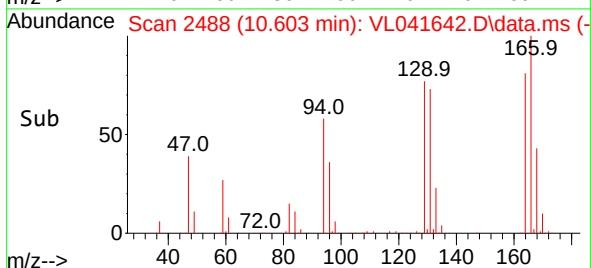
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024

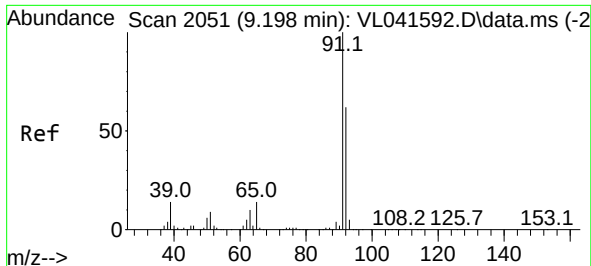


#52
Tetrachloroethene
Concen: 3.203 ppbv
RT: 10.603 min Scan# 2488
Delta R.T. 0.013 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46



Tgt Ion:164 Resp: 268567
Ion Ratio Lower Upper
164 100
166 123.7 99.4 149.2
129 95.3 83.5 125.3
131 90.1 76.5 114.7





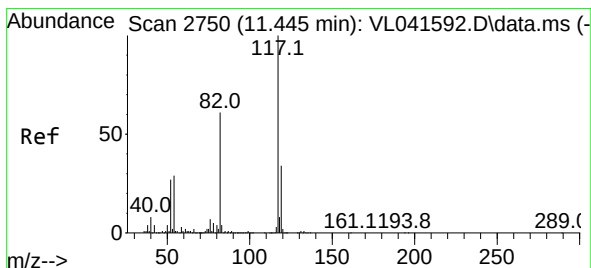
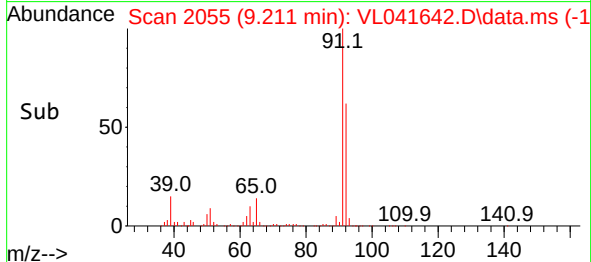
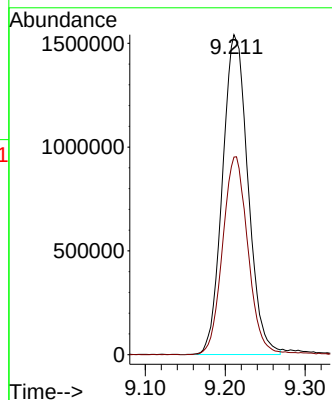
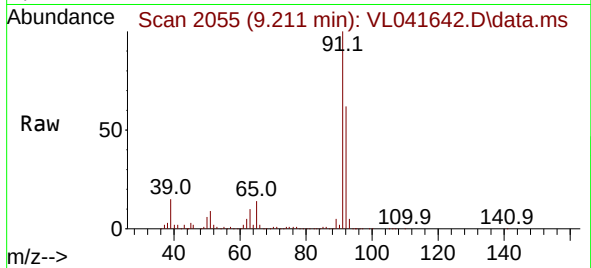
#53
Toluene
Concen: 13.880 ppbv
RT: 9.211 min Scan# 2051
Delta R.T. 0.013 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 3411494
Ion Ratio Lower Upper
91 100
92 62.4 48.9 73.3

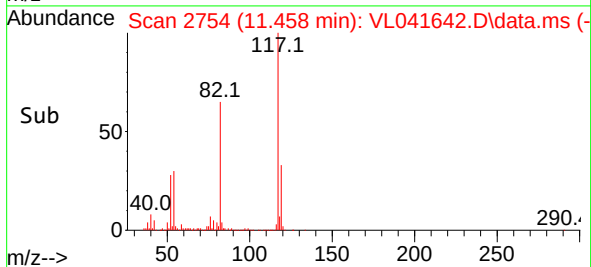
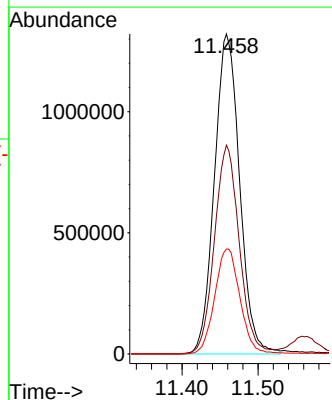
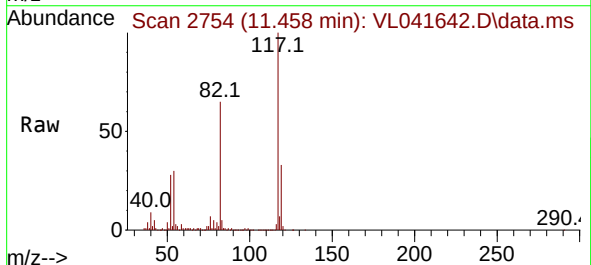
Manual Integrations
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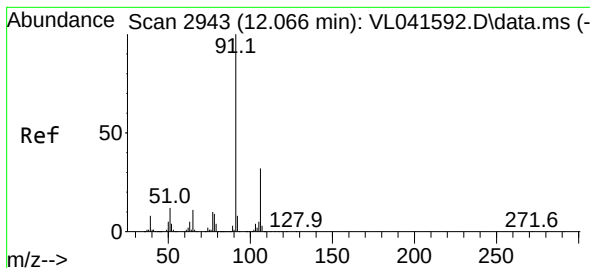
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 2754
Delta R.T. 0.013 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

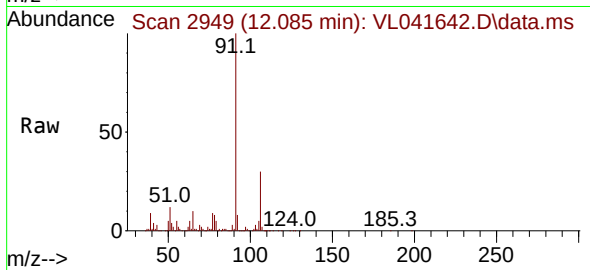
Tgt Ion:117 Resp: 3040255
Ion Ratio Lower Upper
117 100
82 64.2 49.4 74.2
119 33.1 24.4 36.6





#58
Ethyl Benzene
Concen: 3.939 ppbv
RT: 12.085 min Scan# 2949
Delta R.T. 0.019 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

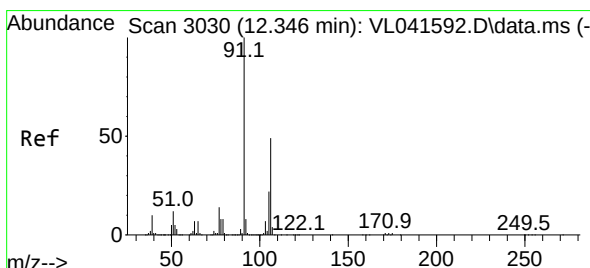
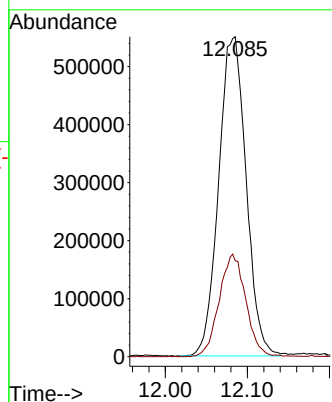
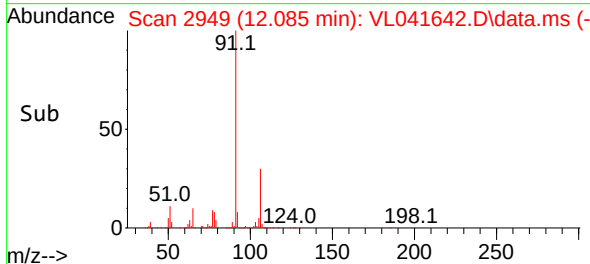
Instrument :
MSVOA_L
ClientSampleId :
SV1



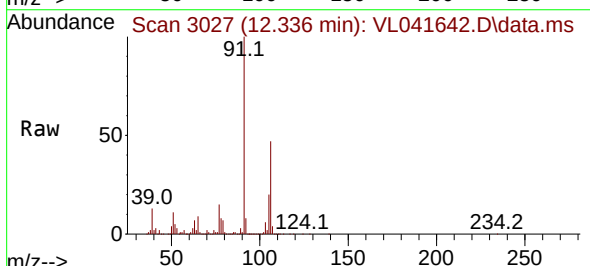
Tgt Ion: 91 Resp: 1281844
Ion Ratio Lower Upper
91 100
106 30.0 25.8 38.6

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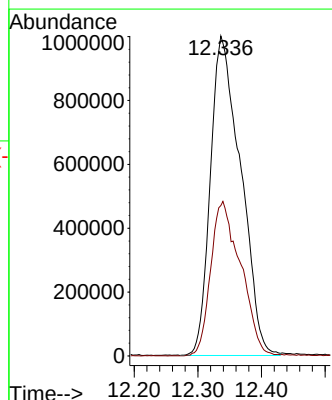
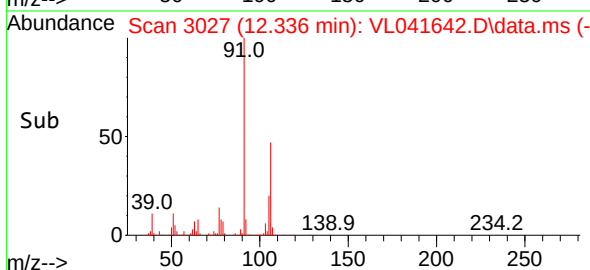
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024

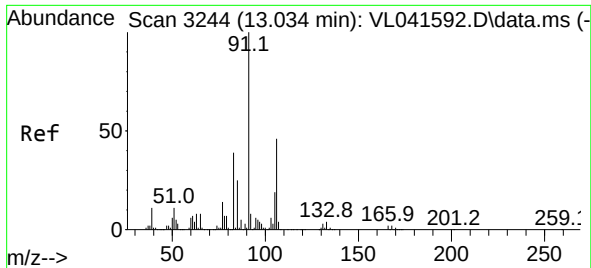


#59
m/p-Xylene
Concen: 11.404 ppbv
RT: 12.336 min Scan# 3027
Delta R.T. -0.010 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46



Tgt Ion: 91 Resp: 3303410
Ion Ratio Lower Upper
91 100
106 48.1 36.8 55.2





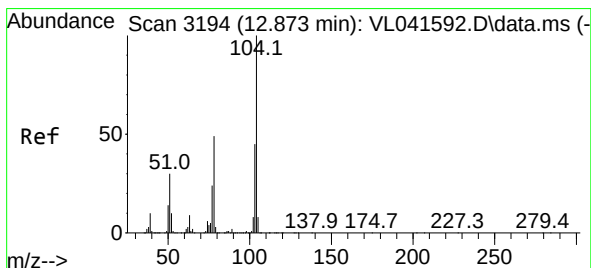
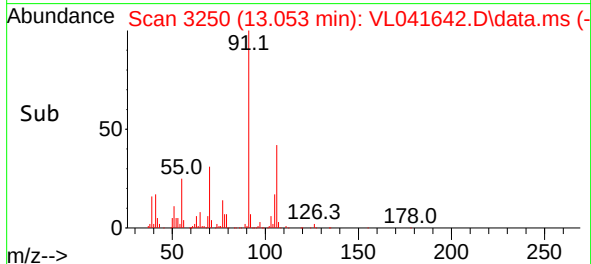
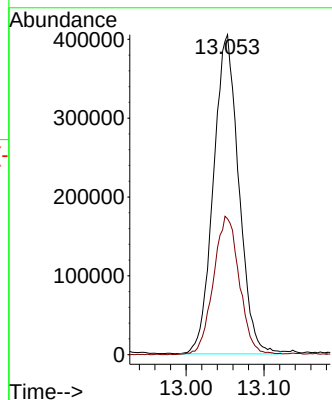
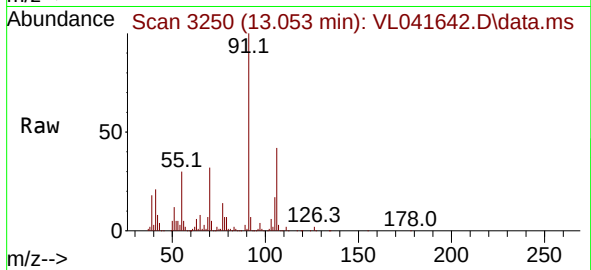
#60
o-Xylene
Concen: 3.293 ppbv
RT: 13.053 min Scan# 3197
Delta R.T. 0.019 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 91438
Ion Ratio Lower Upper
91 100
106 44.5 23.1 69.3

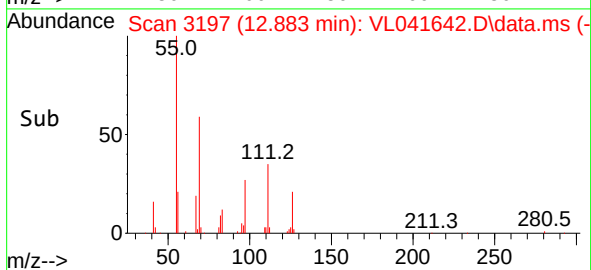
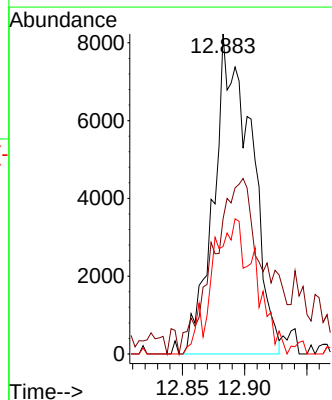
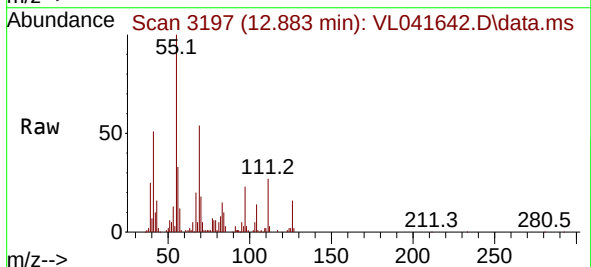
Manual Integrations
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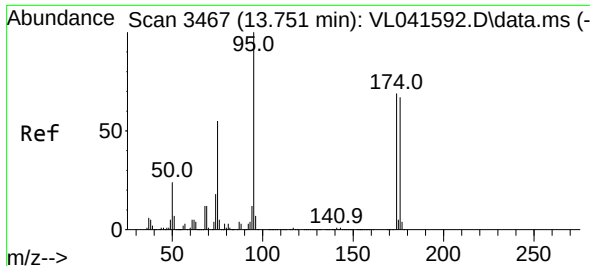
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#61
Styrene
Concen: 0.149 ppbv m
RT: 12.883 min Scan# 3197
Delta R.T. 0.010 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

Tgt Ion:104 Resp: 17246
Ion Ratio Lower Upper
104 100
78 0.0 39.8 59.6#
103 50.1 37.4 56.0





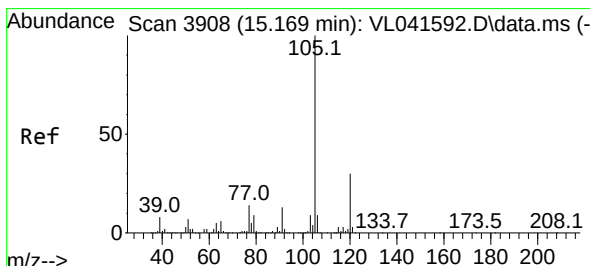
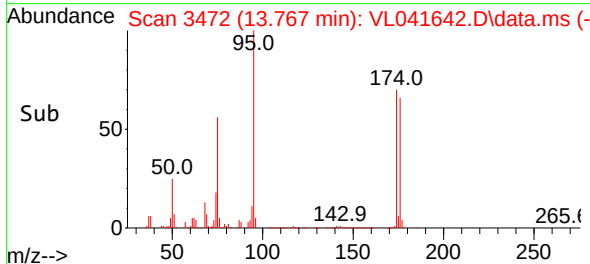
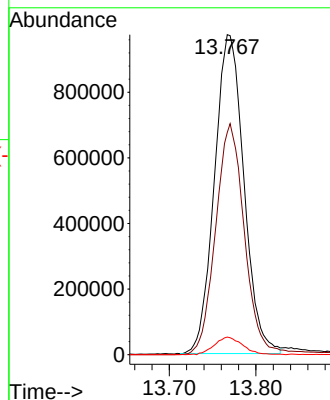
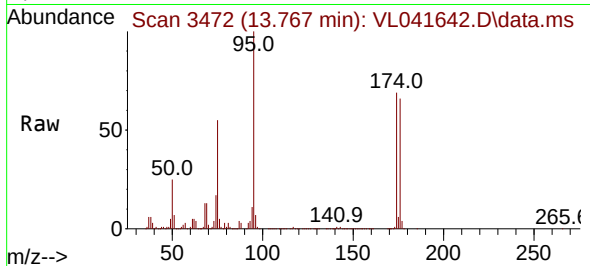
#68
1-Bromo-4-Fluorobenzene
Concen: 10.259 ppbv
RT: 13.767 min Scan# 3467
Delta R.T. 0.016 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 95 Resp: 229606
Ion Ratio Lower Upper
95 100
174 72.3 55.8 83.8
175 5.3 4.1 6.1

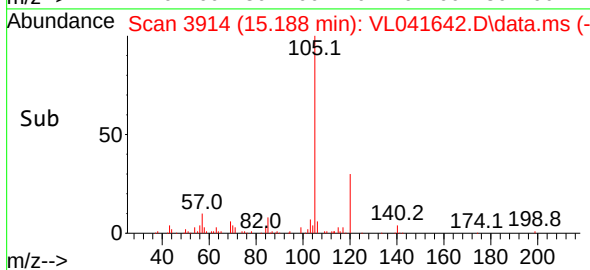
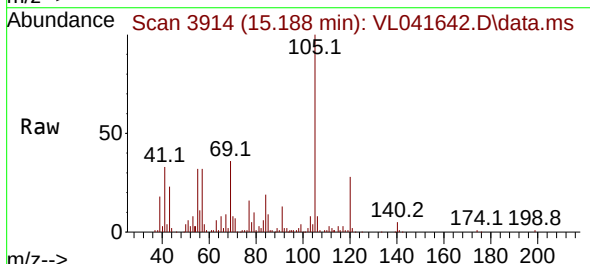
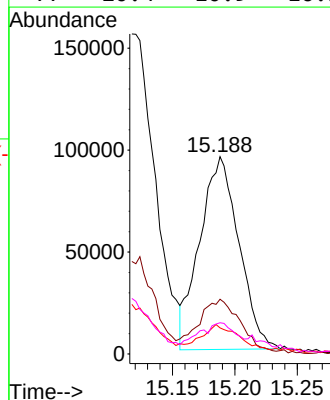
Manual Integrations
APPROVED

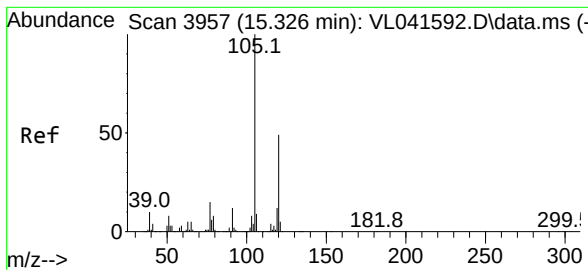
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#72
4-Ethyltoluene
Concen: 0.637 ppbv
RT: 15.188 min Scan# 3914
Delta R.T. 0.019 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

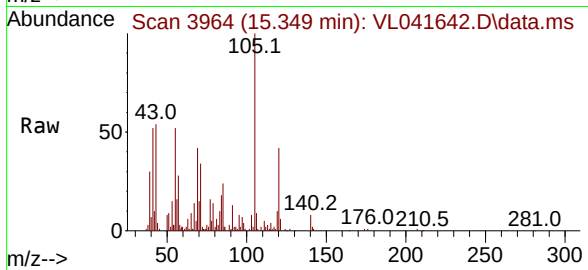
Tgt Ion:105 Resp: 206817
Ion Ratio Lower Upper
105 100
120 33.1 24.1 36.1
91 15.3 10.2 15.2#
77 20.4 10.9 16.3#





#73
1,3,5-Trimethylbenzene
Concen: 0.350 ppbv m
RT: 15.349 min Scan# 3957
Delta R.T. 0.023 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

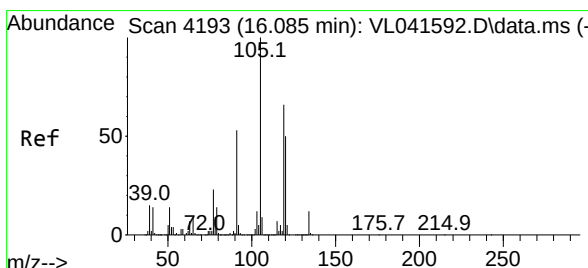
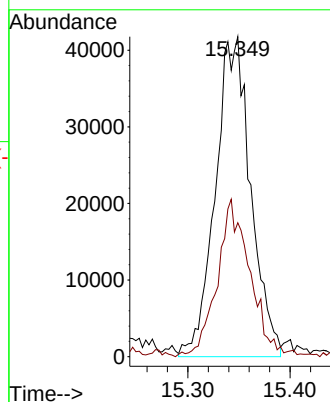
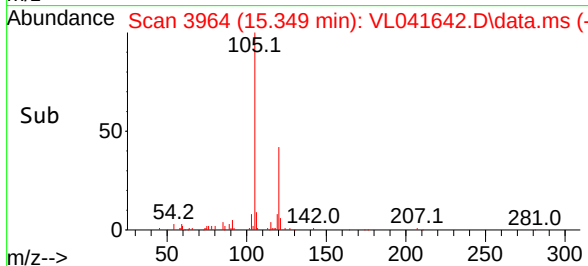
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:105 Resp: 100310
Ion Ratio Lower Upper
105 100
120 41.9 39.4 59.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#74
1,2,4-Trimethylbenzene
Concen: 1.240 ppbv
RT: 16.098 min Scan# 4197
Delta R.T. 0.013 min
Lab File: VL041642.D
Acq: 10 Oct 2024 14:46

Tgt Ion:105 Resp: 415906
Ion Ratio Lower Upper
105 100
120 45.4 39.9 59.9
91 10.9 42.6 63.8#
77 14.6 18.2 27.2#

