

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092524\
 Data File : VL041631.D
 Acq On : 25 Sep 2024 22:36
 Operator : SY/MD
 Sample : P4174-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/26/2024
 Supervised By :Mahesh Dadoda 09/26/2024

Quant Time: Sep 26 08:30:53 2024

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

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri 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	5.176	49	1050317	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	2744053	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2439768	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1756769	9.782	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.703	85	96744	0.638	ppbv	100
3) Chlorodifluoromethane	2.648	51	426284	3.346	ppbv	100
4) Chloromethane	2.787	50	66799	0.953	ppbv	97
7) Chloroethane	3.169	64	5955	0.252	ppbv #	86
9) Propene	2.668	41	503810	9.376	ppbv	93
10) Heptane	7.565	43	59671	0.474	ppbv	97
11) Trichlorofluoromethane	3.542	101	143809	0.891	ppbv	96
13) Ethanol	3.218	45	270347	66.920	ppbv	98
15) Acetone	3.439	43	13200527	100.110	ppbv #	79
17) tert-Butyl alcohol	3.864	59	120867m	1.042	ppbv	
19) Isopropyl Alcohol	3.555	45	4488056	66.488	ppbv #	1
20) Methylene Chloride	3.915	84	57909	1.169	ppbv	98
26) Hexane	5.195	57	253387	2.567	ppbv #	30
27) Carbon Disulfide	4.102	76	18907	0.180	ppbv #	72
29) Chloroform	5.259	83	872170	5.399	ppbv	99
32) 1,1,1-Trichloroethane	5.986	97	7051m	0.049	ppbv	
34) 2-Butanone	4.767	43	1857702	14.198	ppbv	99
35) Carbon Tetrachloride	6.478	117	116300	0.864	ppbv	91
36) Benzene	6.352	78	349986	1.837	ppbv	99
38) Trichloroethene	7.279	130	11899m	0.121	ppbv	
44) 2,2,4-Trimethylpentane	7.314	57	47407m	0.144	ppbv	
50) 4-Methyl-2-Pentanone	8.176	43	52351	0.259	ppbv	95
51) 2-Hexanone	9.555	43	61607m	0.403	ppbv	
52) Tetrachloroethene	10.603	164	2470568	35.802	ppbv	97
53) Toluene	9.208	91	472293	2.335	ppbv	100
58) Ethyl Benzene	12.073	91	42466	0.163	ppbv	90
59) m/p-Xylene	12.336	91	80090m	0.345	ppbv	

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

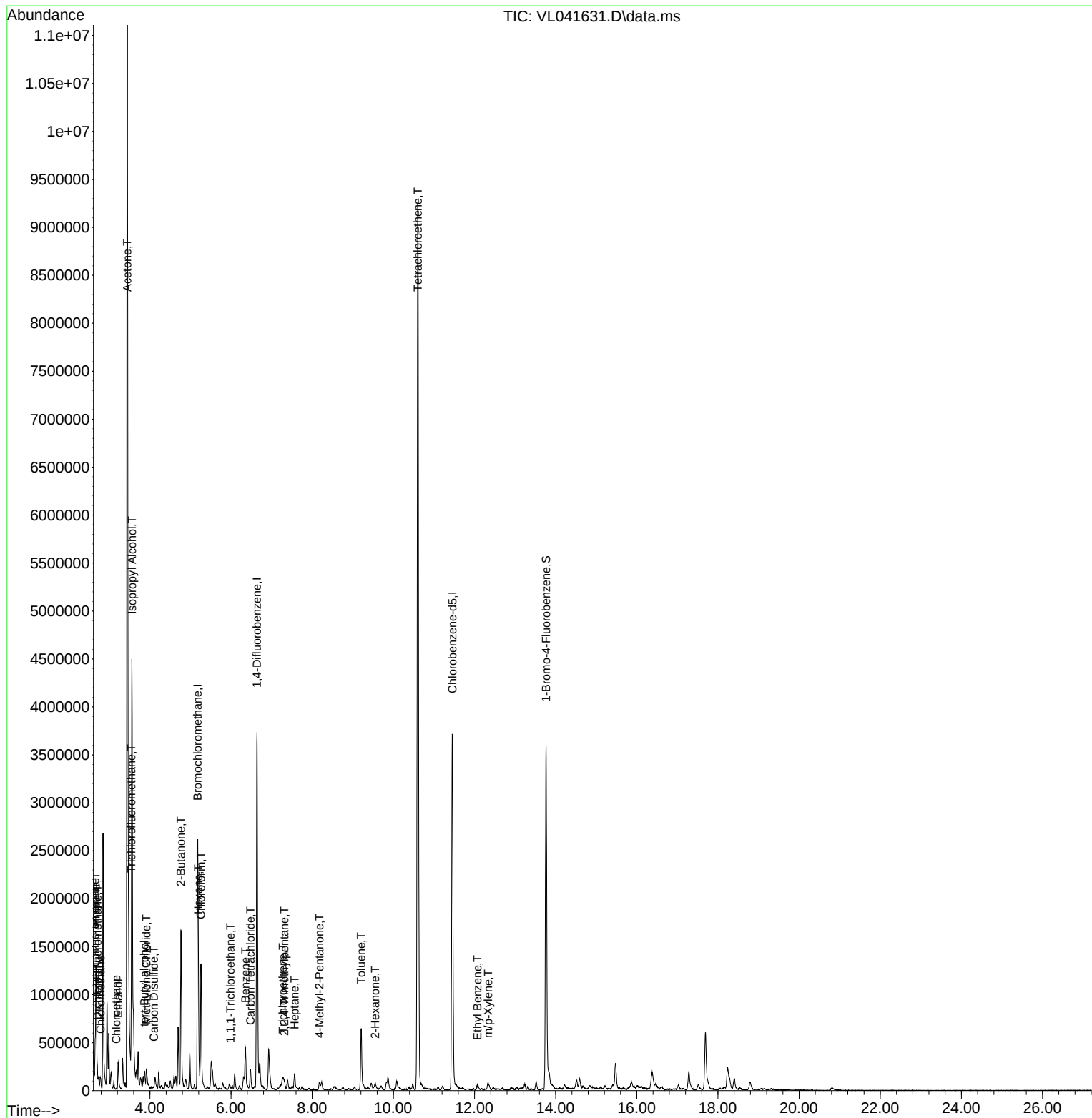
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092524\
Data File : VL041631.D
Acq On : 25 Sep 2024 22:36
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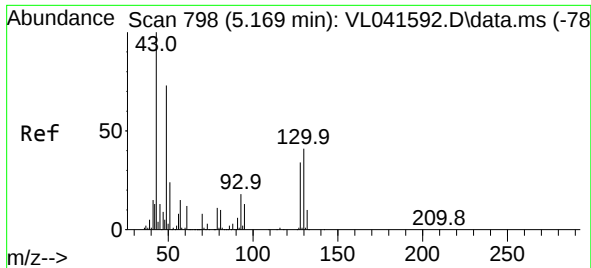
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Sep 26 08:30:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 17 09:12:21 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 09/26/2024
Supervised By : Mahesh Dadoda 09/26/2024





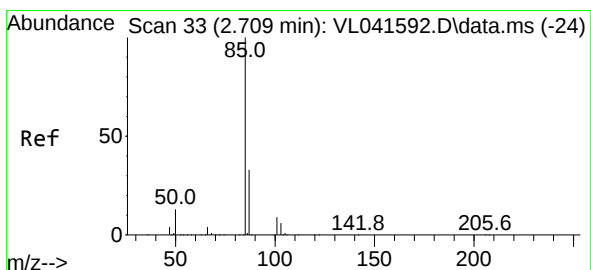
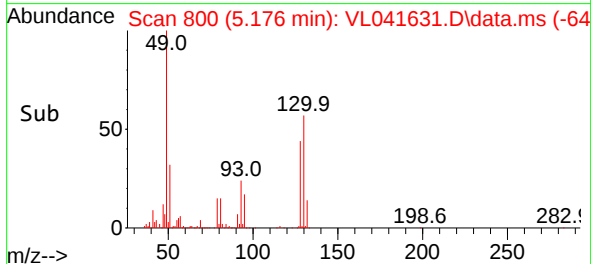
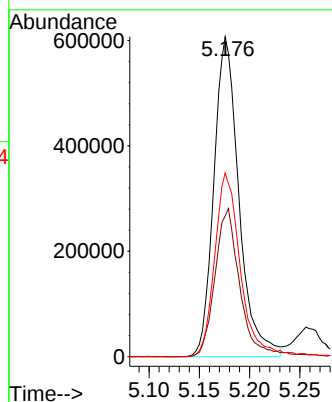
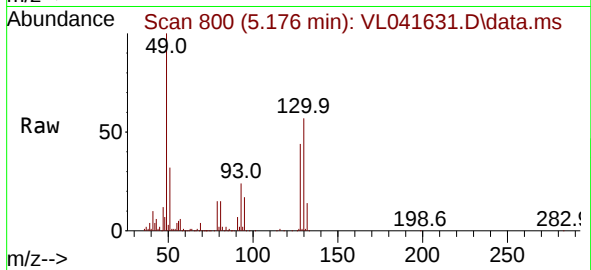
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. 0.007 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 105031
Ion Ratio Lower Upper
49 100
128 47.0 23.8 71.5
130 59.9 30.4 91.3

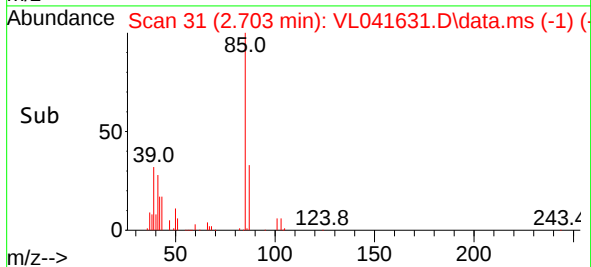
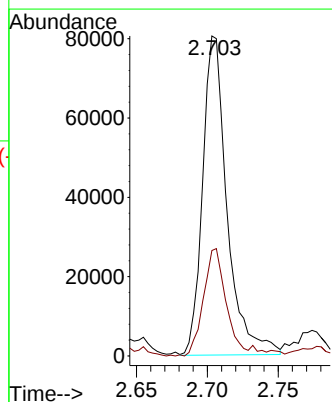
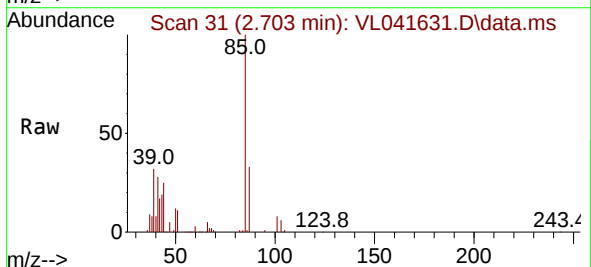
Manual Integrations
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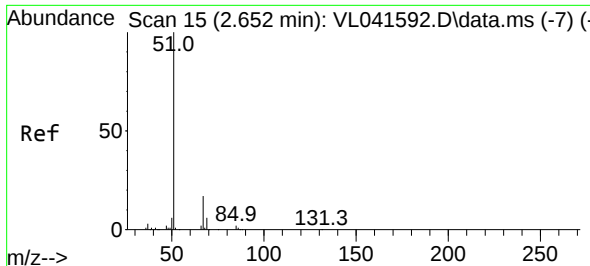
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#2
Dichlorodifluoromethane
Concen: 0.638 ppbv
RT: 2.703 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

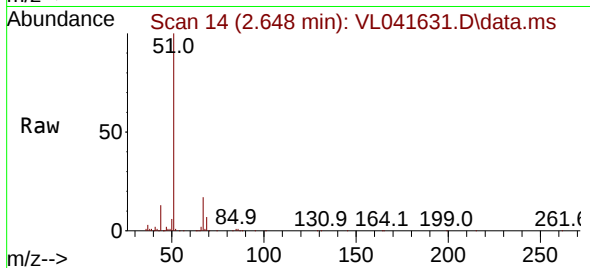
Tgt Ion: 85 Resp: 96744
Ion Ratio Lower Upper
85 100
87 32.8 26.3 39.5





#3
Chlorodifluoromethane
Concen: 3.346 ppbv
RT: 2.648 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

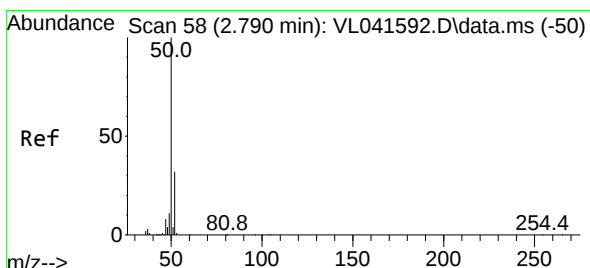
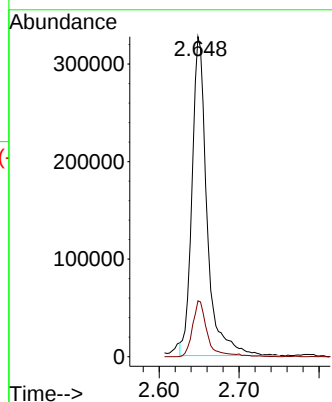
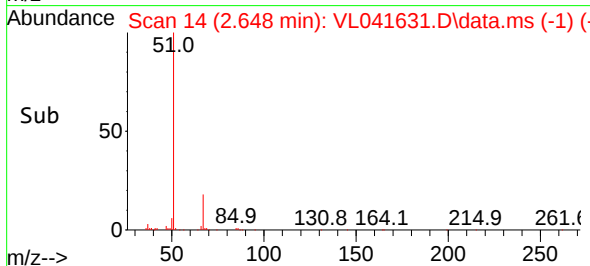
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 51 Resp: 426284
Ion Ratio Lower Upper
51 100
67 17.4 14.1 21.1

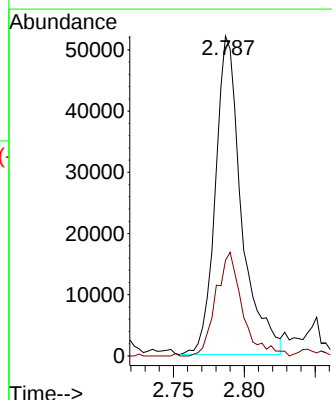
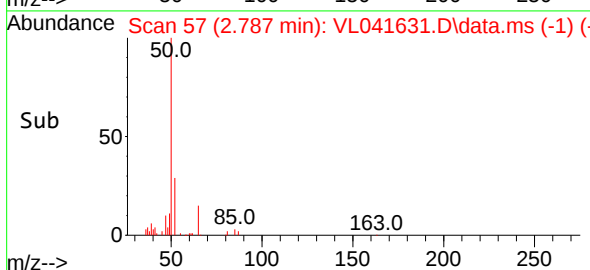
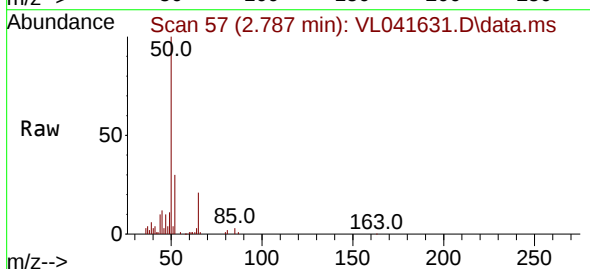
Manual Integrations
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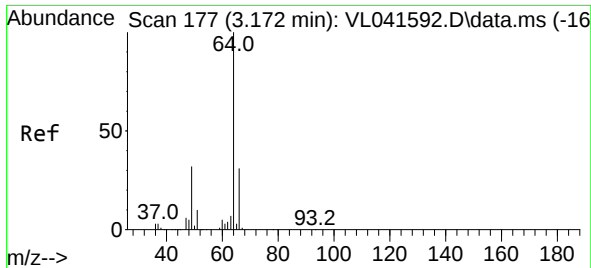
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#4
Chloromethane
Concen: 0.953 ppbv
RT: 2.787 min Scan# 57
Delta R.T. -0.003 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

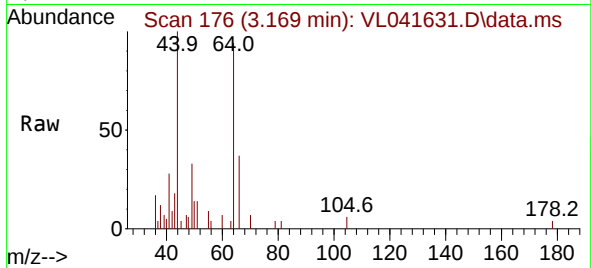
Tgt Ion: 50 Resp: 66799
Ion Ratio Lower Upper
50 100
52 30.0 25.4 38.2





#7
Chloroethane
Concen: 0.252 ppbv
RT: 3.169 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

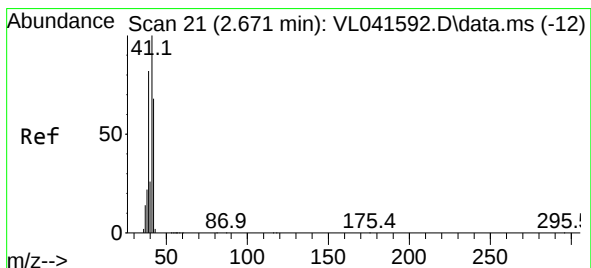
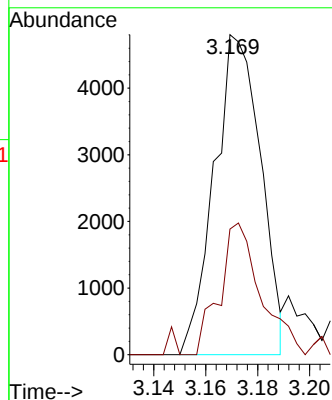
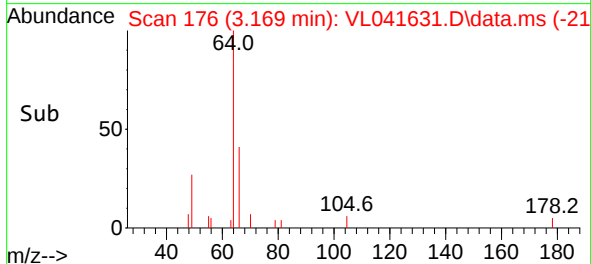
Instrument :
MSVOA_L
ClientSampleId :
SV1



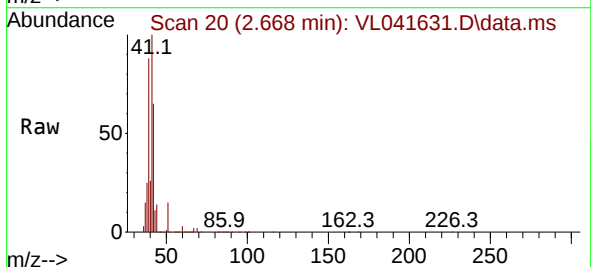
Tgt Ion: 64 Resp: 595
Ion Ratio Lower Upper
64 100
66 39.3 25.1 37.7

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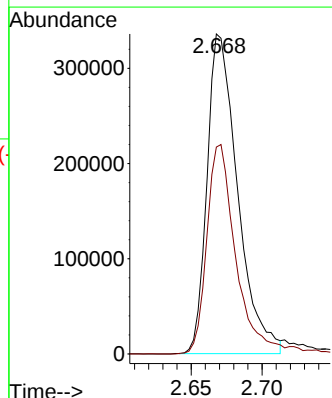
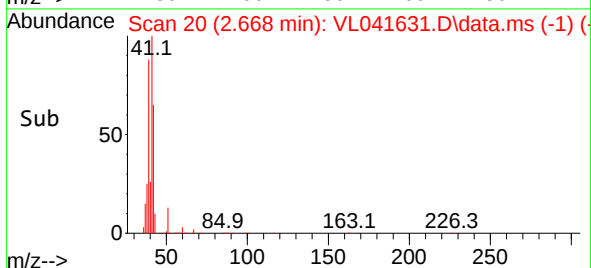
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024

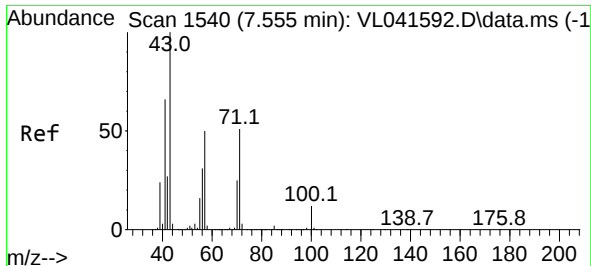


#9
Propene
Concen: 9.376 ppbv
RT: 2.668 min Scan# 20
Delta R.T. -0.003 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36



Tgt Ion: 41 Resp: 503810
Ion Ratio Lower Upper
41 100
42 63.6 55.2 82.8





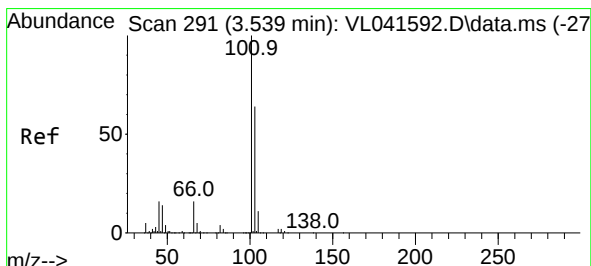
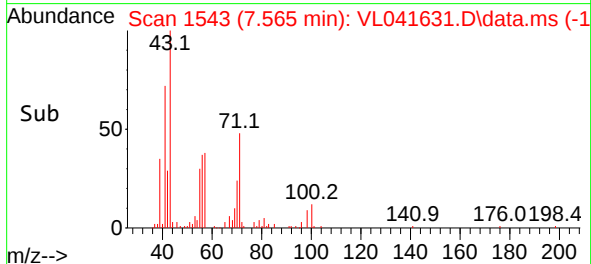
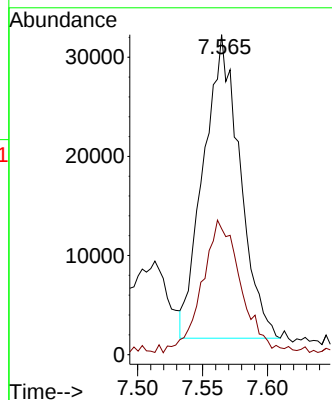
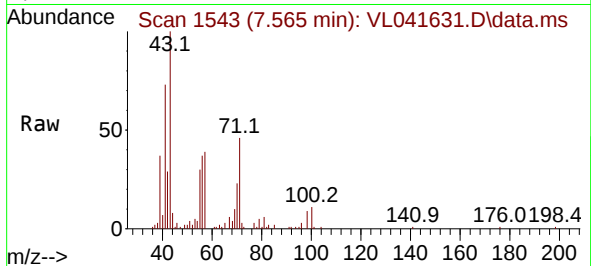
#10
Heptane
Concen: 0.474 ppbv
RT: 7.565 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 5967
Ion Ratio Lower Upper
43 100
57 51.9 39.8 59.8

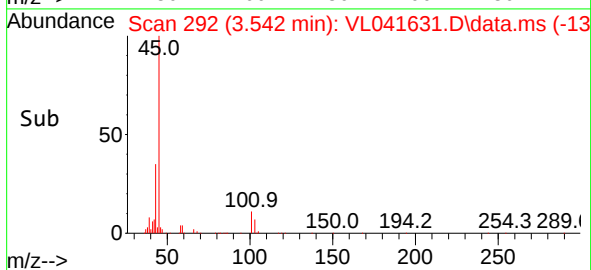
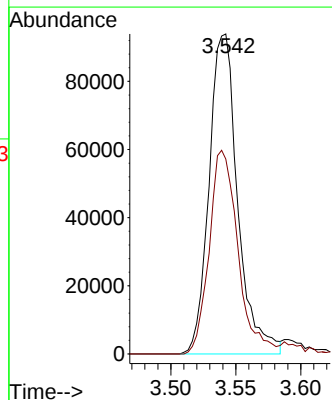
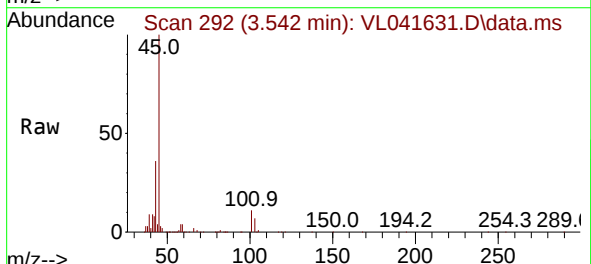
Manual Integrations
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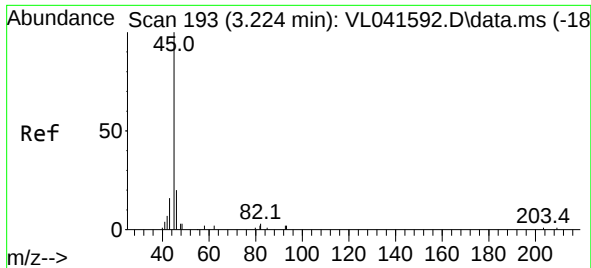
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#11
Trichlorofluoromethane
Concen: 0.891 ppbv
RT: 3.542 min Scan# 292
Delta R.T. 0.003 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

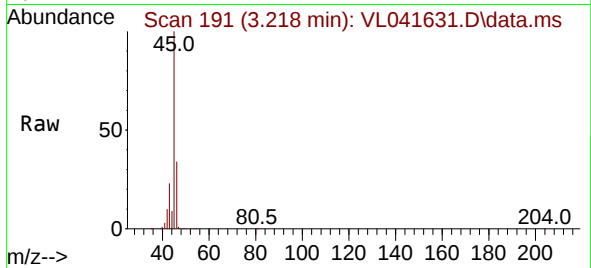
Tgt Ion:101 Resp: 143809
Ion Ratio Lower Upper
101 100
103 60.9 51.2 76.8





#13
 Ethanol
 Concen: 66.920 ppbv
 RT: 3.218 min Scan# 193
 Delta R.T. -0.006 min
 Lab File: VL041631.D
 Acq: 25 Sep 2024 22:36

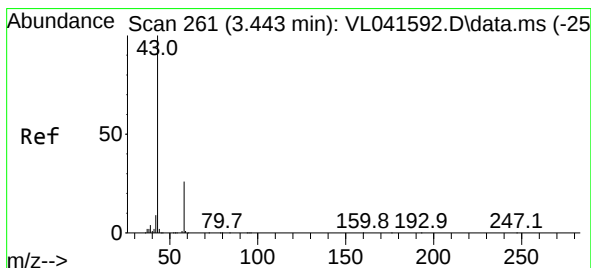
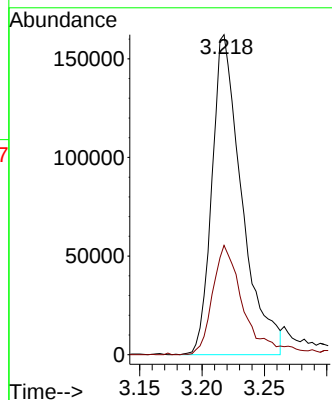
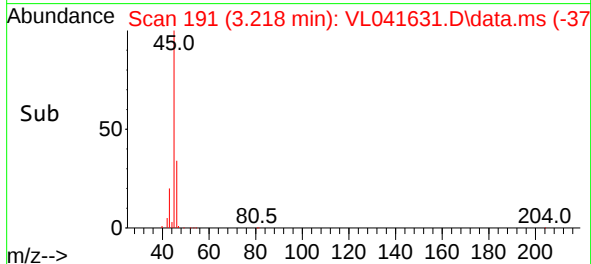
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion: 45 Resp: 27034
 Ion Ratio Lower Upper
 45 100
 46 37.1 15.2 60.8

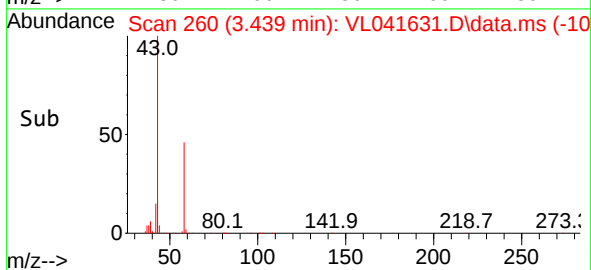
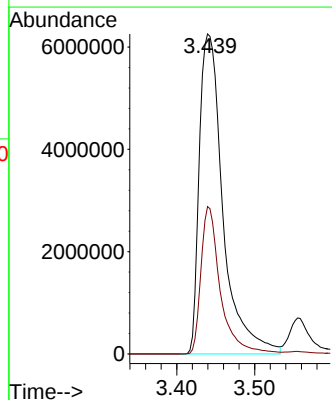
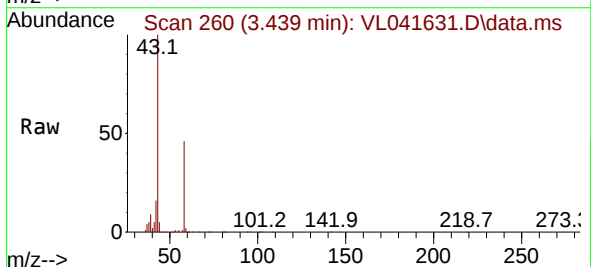
Manual Integrations
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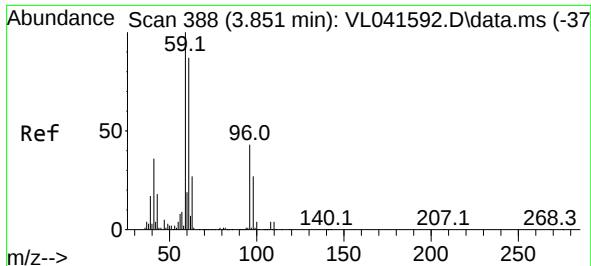
Reviewed By :Semsettin Yesilyurt 09/26/2024
 Supervised By :Mahesh Dadoda 09/26/2024



#15
 Acetone
 Concen: 100.110 ppbv
 RT: 3.439 min Scan# 260
 Delta R.T. -0.003 min
 Lab File: VL041631.D
 Acq: 25 Sep 2024 22:36

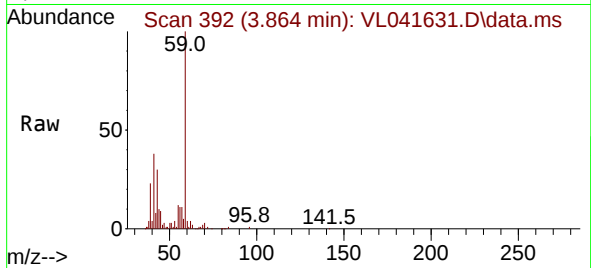
Tgt Ion: 43 Resp:13200527
 Ion Ratio Lower Upper
 43 100
 58 37.9 21.5 32.3#





#17
tert-Butyl alcohol
Concen: 1.042 ppbv m
RT: 3.864 min Scan# 392
Delta R.T. 0.013 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

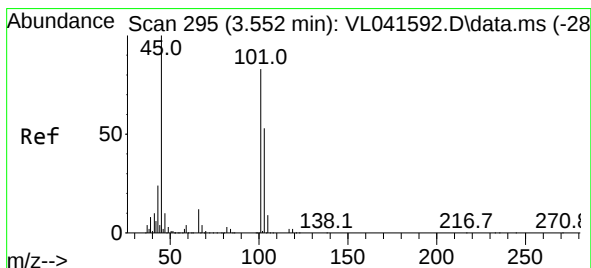
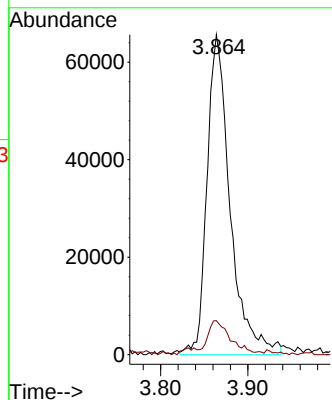
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 59 Resp: 12086
Ion Ratio Lower Upper
59 100
57 14.6 8.7 13.1

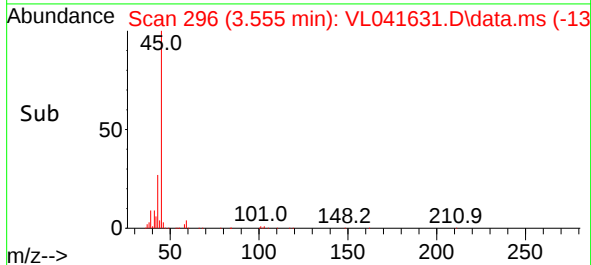
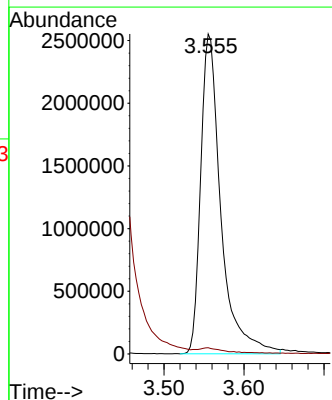
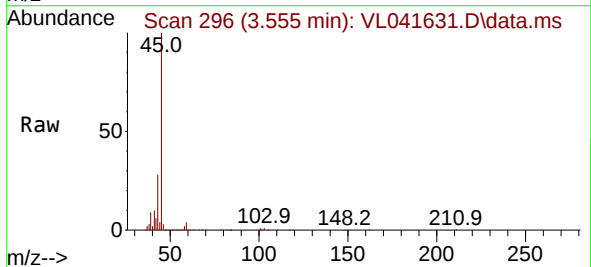
Manual Integrations
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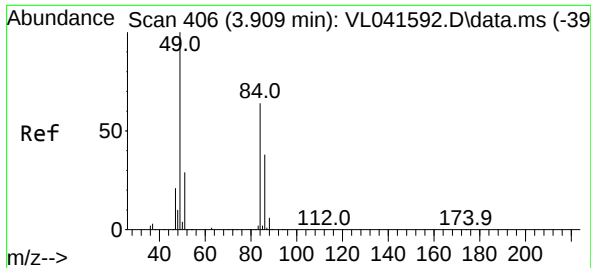
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#19
Isopropyl Alcohol
Concen: 66.488 ppbv
RT: 3.555 min Scan# 296
Delta R.T. 0.003 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

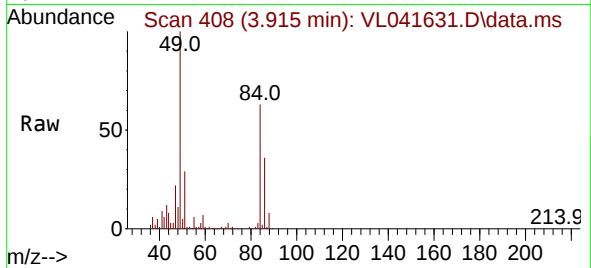
Tgt Ion: 45 Resp: 4488056
Ion Ratio Lower Upper
45 100
58 111.6 2.1 3.1





#20
Methylene Chloride
Concen: 1.169 ppbv
RT: 3.915 min Scan# 408
Delta R.T. 0.007 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

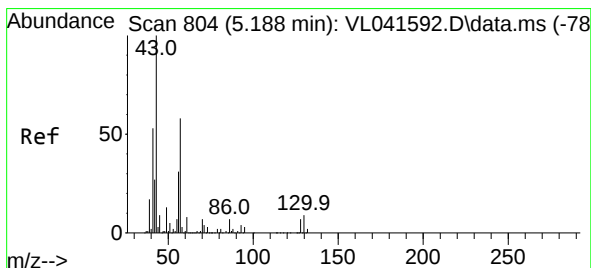
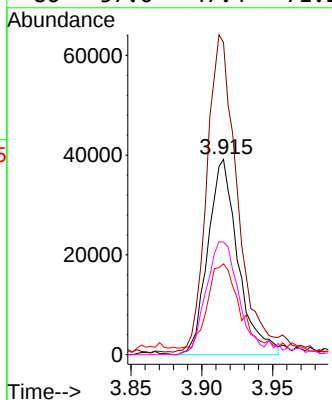
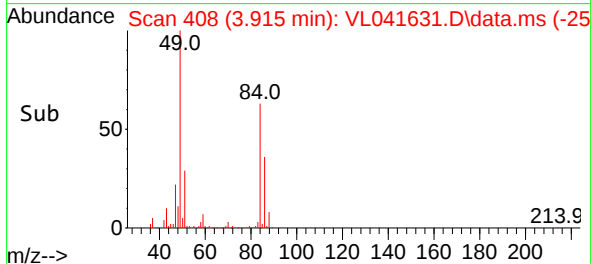
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 84 Resp: 57909
Ion Ratio Lower Upper
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49 157.7 124.3 186.5
51 43.2 36.3 54.5
86 57.6 47.4 71.2

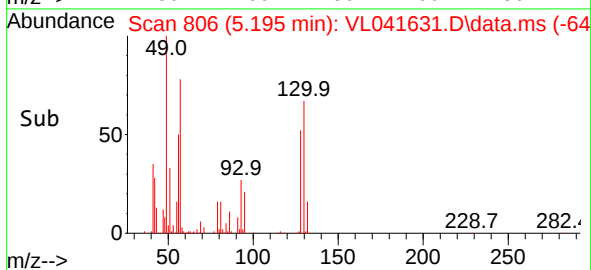
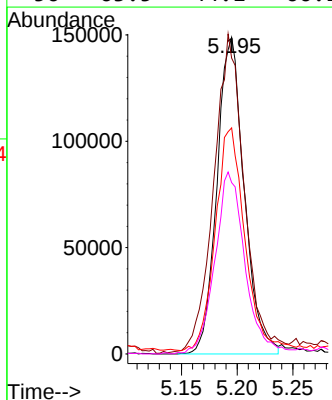
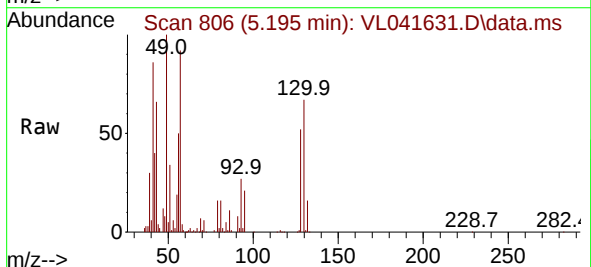
Manual Integrations
APPROVED

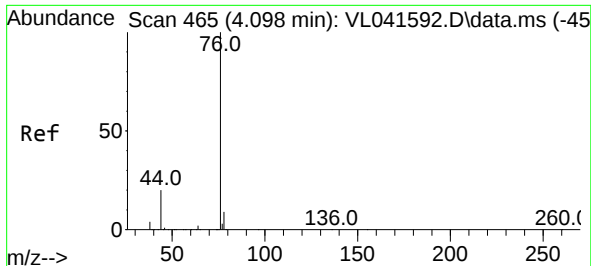
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#26
Hexane
Concen: 2.567 ppbv
RT: 5.195 min Scan# 806
Delta R.T. 0.007 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

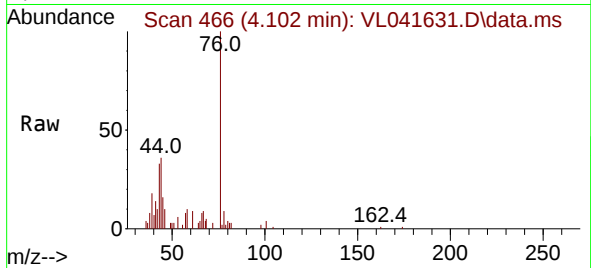
Tgt Ion: 57 Resp: 253387
Ion Ratio Lower Upper
57 100
41 119.5 75.7 113.5#
43 76.1 198.5 297.7#
56 63.5 44.1 66.1





#27
Carbon Disulfide
Concen: 0.180 ppbv
RT: 4.102 min Scan# 466
Delta R.T. 0.003 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

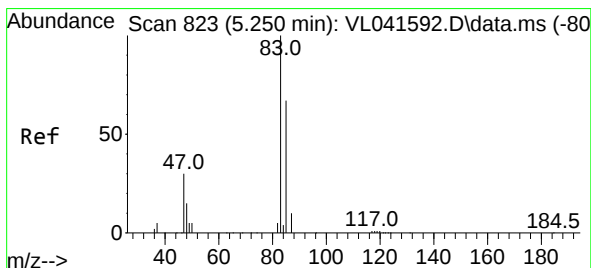
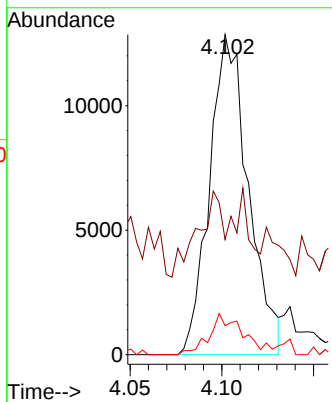
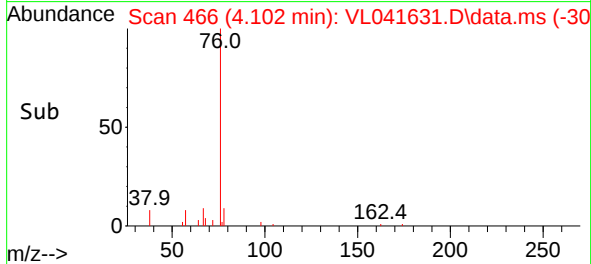
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 76 Resp: 1890
Ion Ratio Lower Upper
76 100
44 36.7 15.8 23.8
78 13.0 7.5 11.3

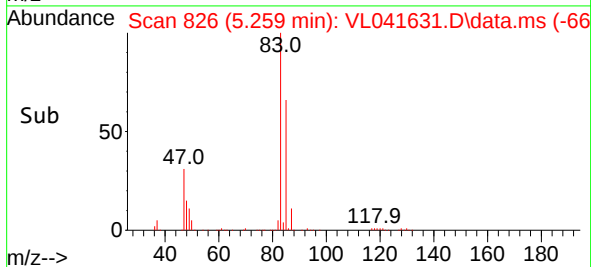
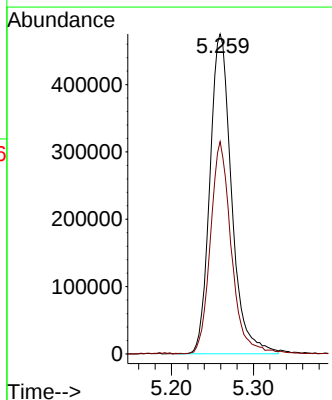
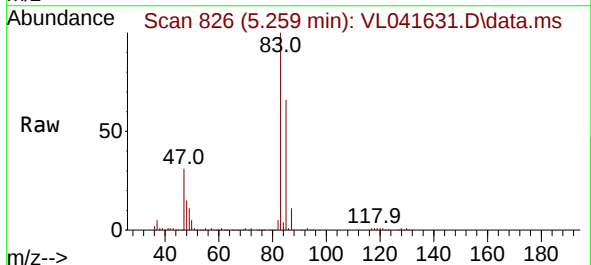
Manual Integrations
APPROVED

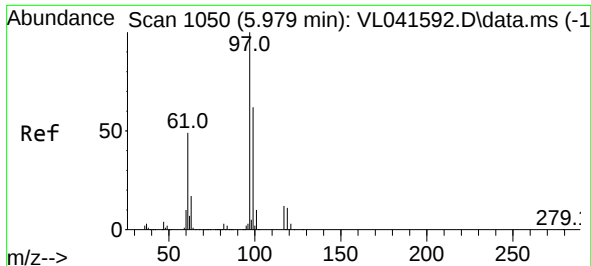
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#29
Chloroform
Concen: 5.399 ppbv
RT: 5.259 min Scan# 826
Delta R.T. 0.010 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

Tgt Ion: 83 Resp: 872170
Ion Ratio Lower Upper
83 100
85 66.3 53.8 80.6





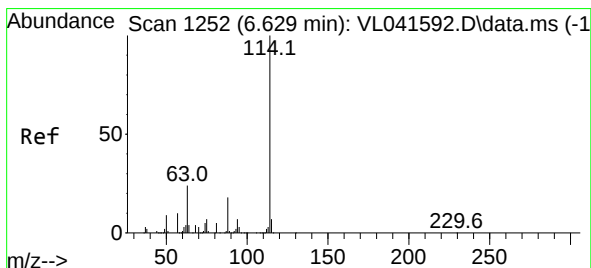
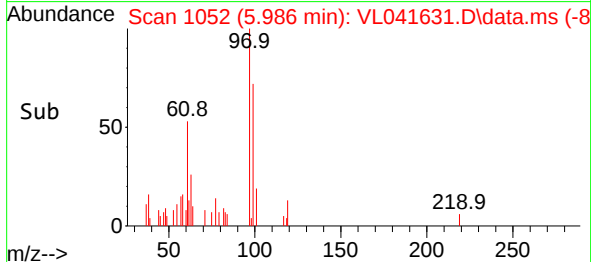
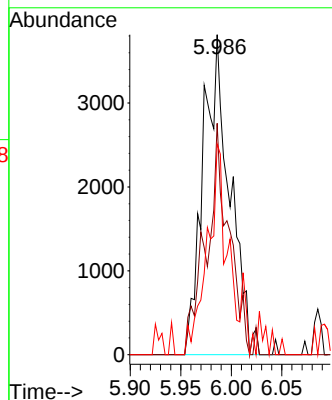
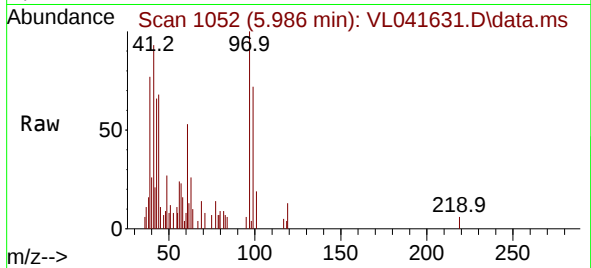
#32
1,1,1-Trichloroethane
Concen: 0.049 ppbv m
RT: 5.986 min Scan# 1052
Delta R.T. 0.007 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 97 Resp: 705
Ion Ratio Lower Upper
97 100
99 61.2 51.0 76.4
61 52.5 41.0 61.6

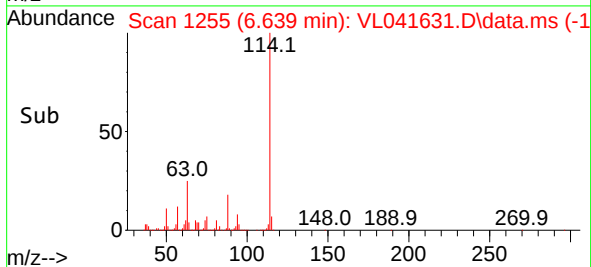
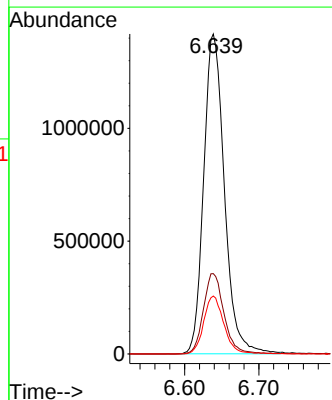
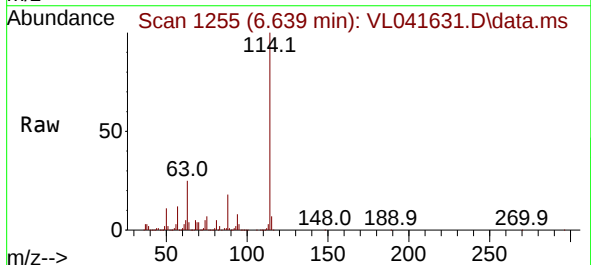
Manual Integrations
APPROVED

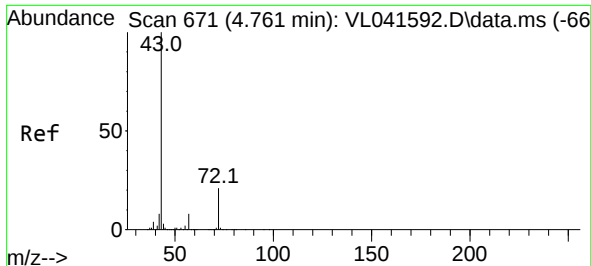
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. 0.010 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

Tgt Ion:114 Resp: 2744053
Ion Ratio Lower Upper
114 100
63 25.2 20.2 30.2
88 17.7 14.2 21.4





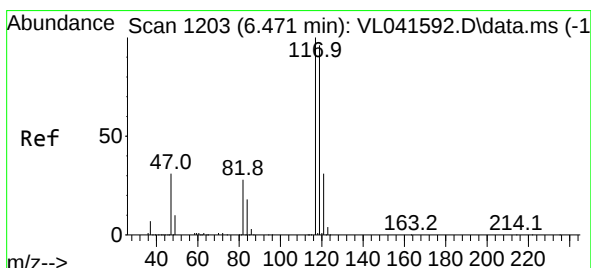
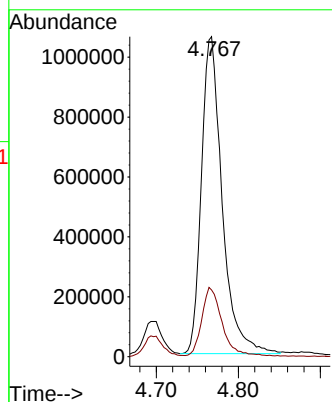
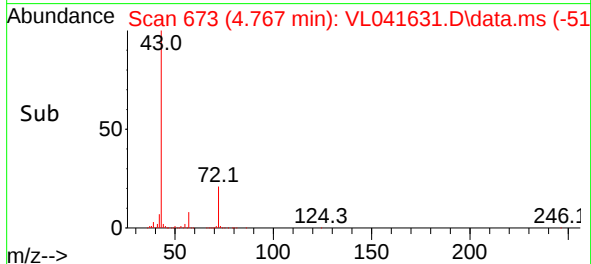
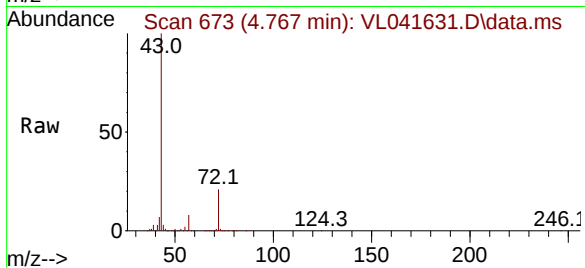
#34
2-Butanone
Concen: 14.198 ppbv
RT: 4.767 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 185770
Ion Ratio Lower Upper
43 100
72 21.7 16.8 25.2

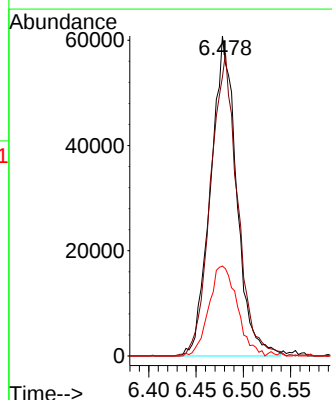
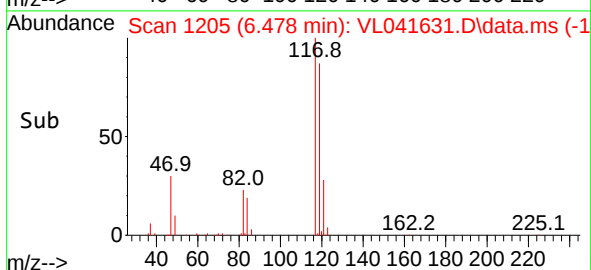
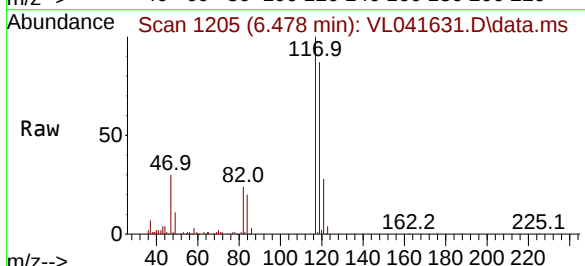
Manual Integrations
APPROVED

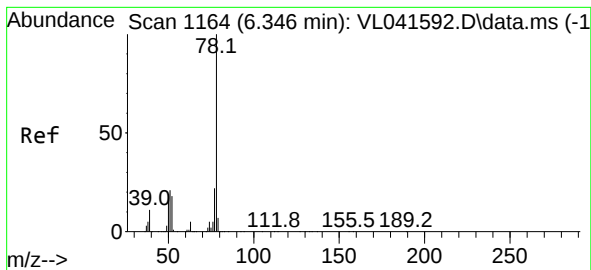
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#35
Carbon Tetrachloride
Concen: 0.864 ppbv
RT: 6.478 min Scan# 1205
Delta R.T. 0.007 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

Tgt Ion:117 Resp: 116300
Ion Ratio Lower Upper
117 100
119 86.7 76.8 115.2
121 28.1 25.0 37.6





#36

Benzene

Concen: 1.837 ppbv

RT: 6.352 min Scan# 1166

Delta R.T. 0.007 min

Lab File: VL041631.D

Acq: 25 Sep 2024 22:36

Instrument :

MSVOA_L

ClientSampleId :

SV1

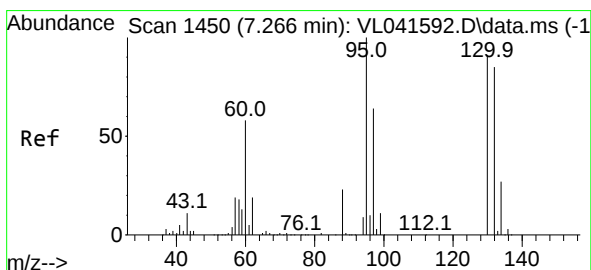
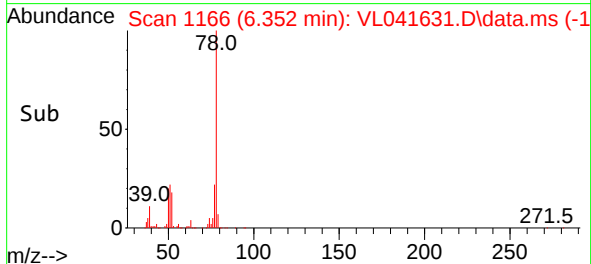
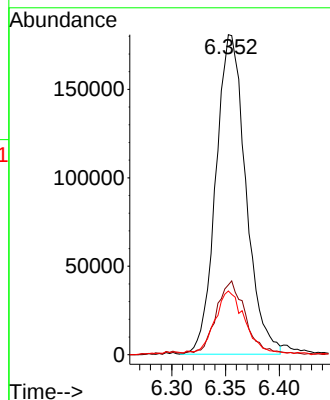
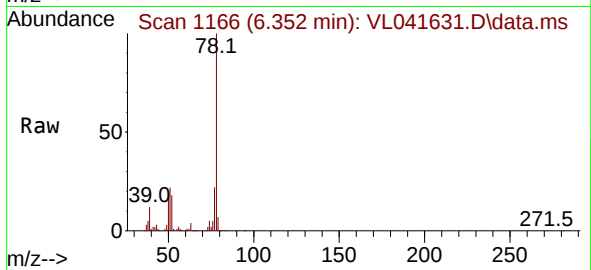
Tgt Ion: 78 Resp: 34998

Ion	Ratio	Lower	Upper
78	100		
77	21.3	17.8	26.6
50	19.2	15.4	23.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#38

Trichloroethene

Concen: 0.121 ppbv m

RT: 7.279 min Scan# 1454

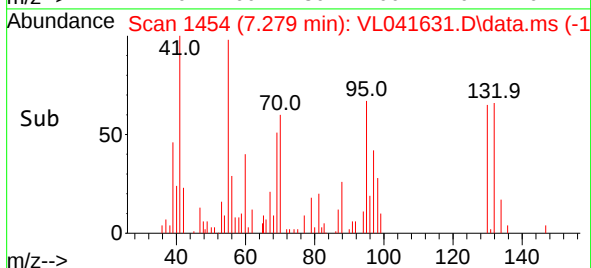
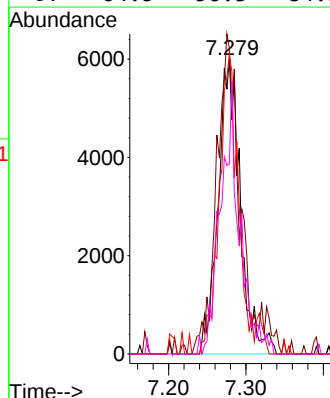
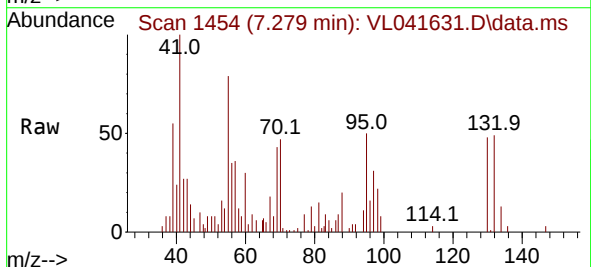
Delta R.T. 0.013 min

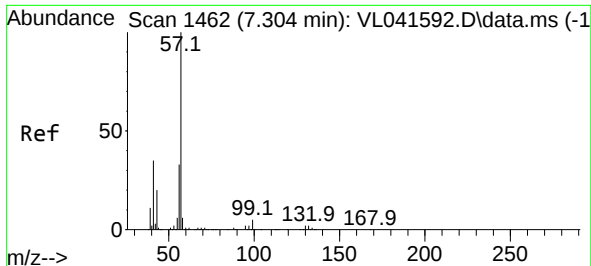
Lab File: VL041631.D

Acq: 25 Sep 2024 22:36

Tgt Ion:130 Resp: 11899

Ion	Ratio	Lower	Upper
130	100		
95	103.9	87.7	131.5
132	101.8	74.5	111.7
97	64.5	56.3	84.5





#44

2,2,4-Trimethylpentane

Concen: 0.144 ppbv m

RT: 7.314 min Scan# 1462

Delta R.T. 0.010 min

Lab File: VL041631.D

Acq: 25 Sep 2024 22:36

Instrument :

MSVOA_L

ClientSampleId :

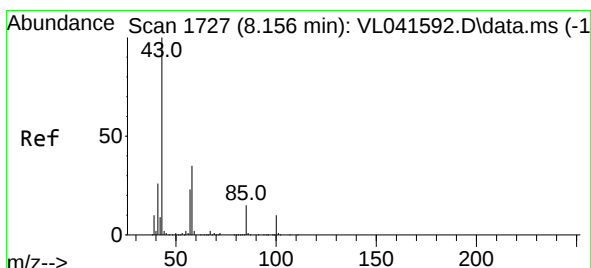
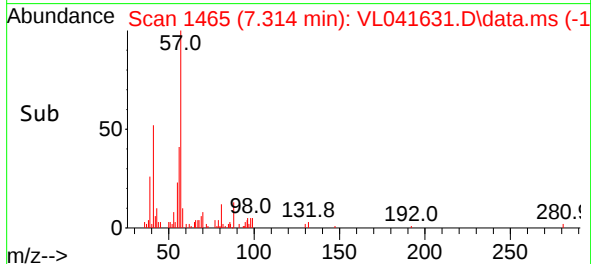
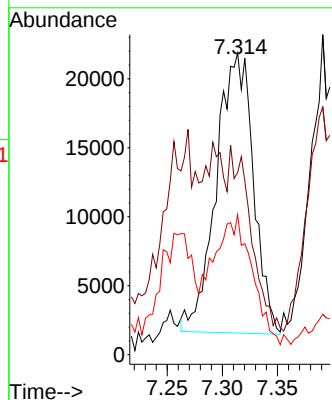
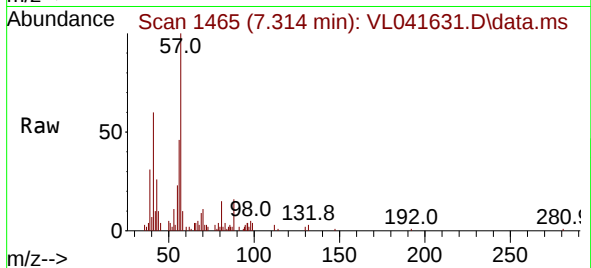
SV1

Tgt Ion: 57 Resp: 4740
 Ion Ratio Lower Upper
 57 100
 41 0.0 27.0 40.6
 56 56.8 25.5 38.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/26/2024
 Supervised By :Mahesh Dadoda 09/26/2024



#50

4-Methyl-2-Pentanone

Concen: 0.259 ppbv

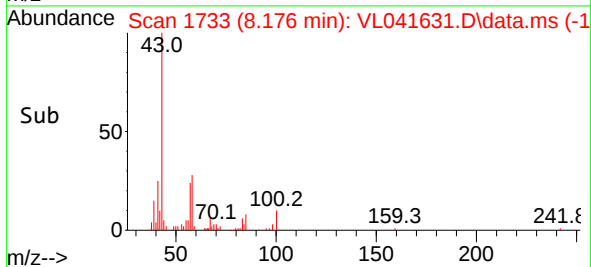
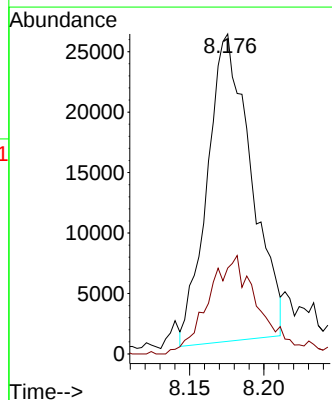
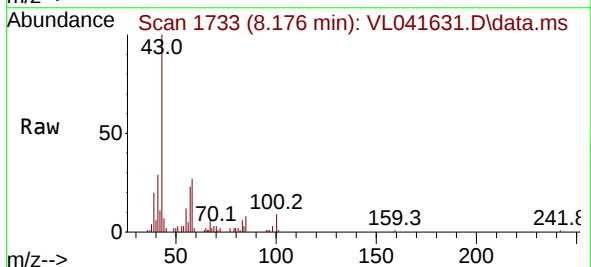
RT: 8.176 min Scan# 1733

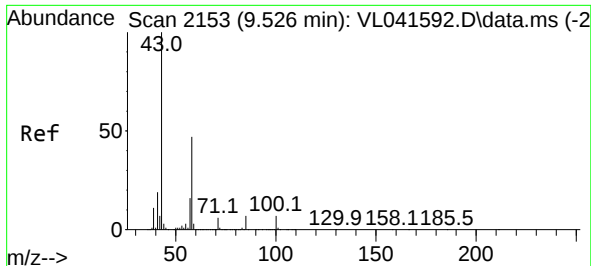
Delta R.T. 0.019 min

Lab File: VL041631.D

Acq: 25 Sep 2024 22:36

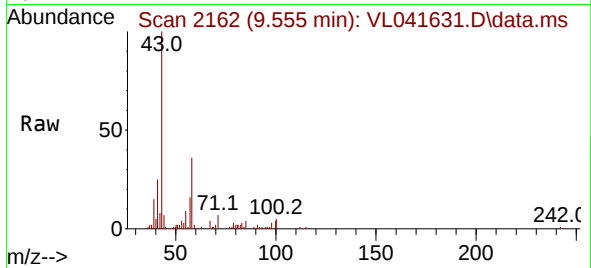
Tgt Ion: 43 Resp: 52351
 Ion Ratio Lower Upper
 43 100
 58 37.7 27.8 41.8





#51
2-Hexanone
Concen: 0.403 ppbv m
RT: 9.555 min Scan# 2153
Delta R.T. 0.029 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

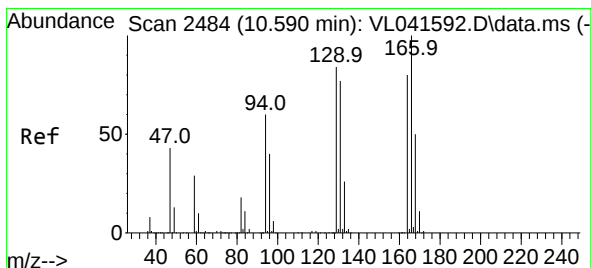
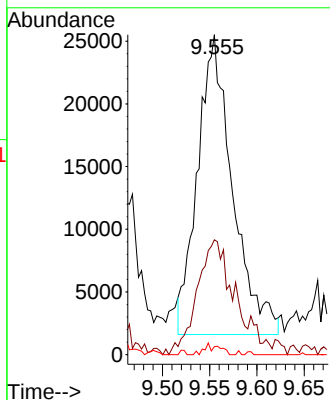
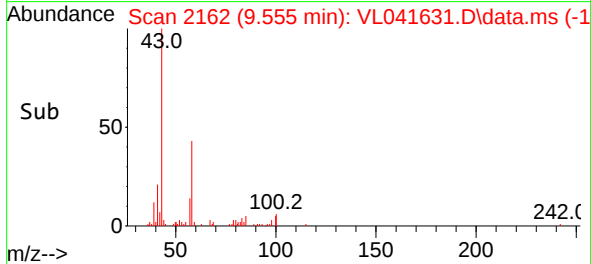
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 6160
Ion Ratio Lower Upper
43 100
58 42.4 37.2 55.8
98 2.0 0.5 0.7

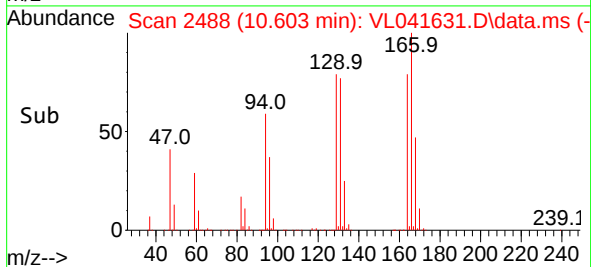
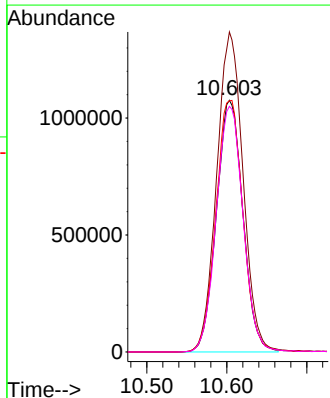
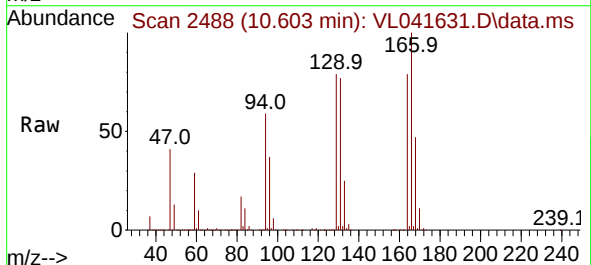
Manual Integrations
APPROVED

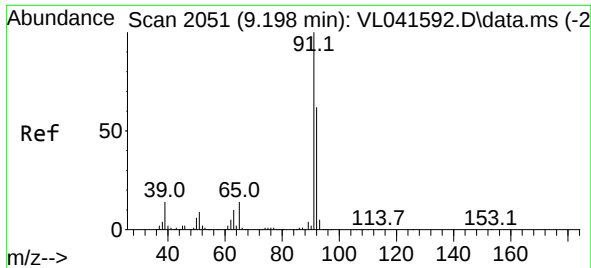
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#52
Tetrachloroethene
Concen: 35.802 ppbv
RT: 10.603 min Scan# 2488
Delta R.T. 0.013 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

Tgt Ion:164 Resp: 2470568
Ion Ratio Lower Upper
164 100
166 127.1 99.4 149.2
129 99.8 83.5 125.3
131 97.6 76.5 114.7





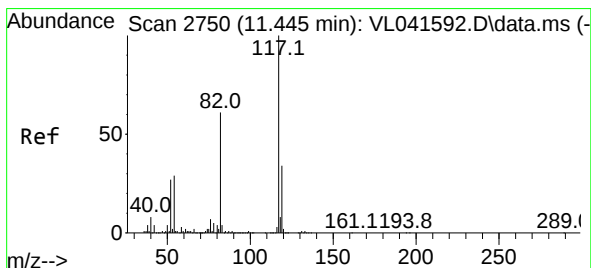
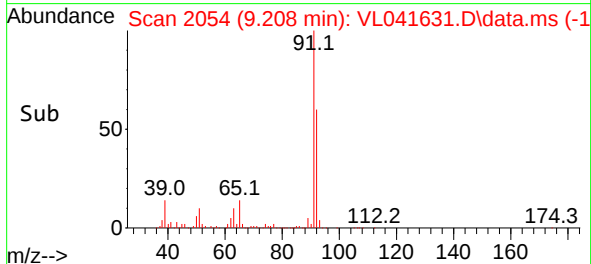
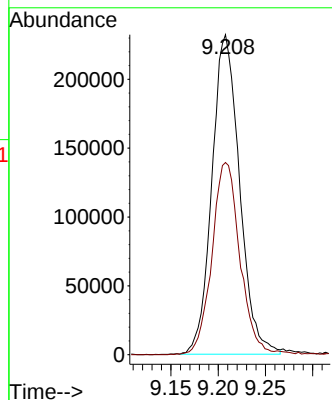
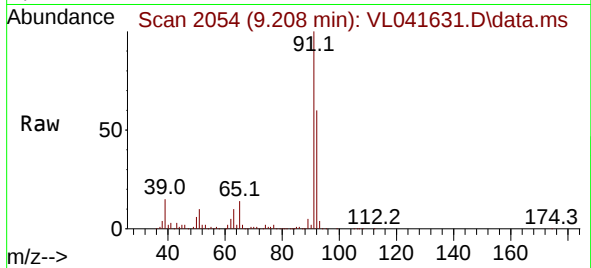
#53
Toluene
Concen: 2.335 ppbv
RT: 9.208 min Scan# 2051
Delta R.T. 0.010 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 47229
Ion Ratio Lower Upper
91 100
92 61.3 48.9 73.3

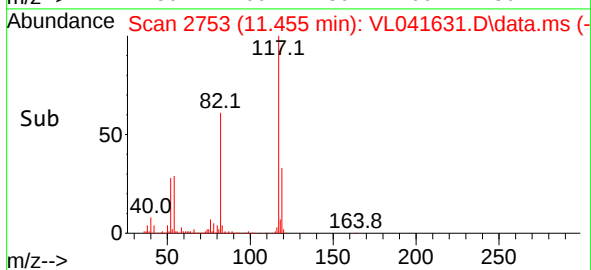
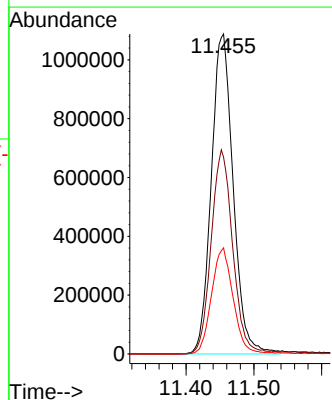
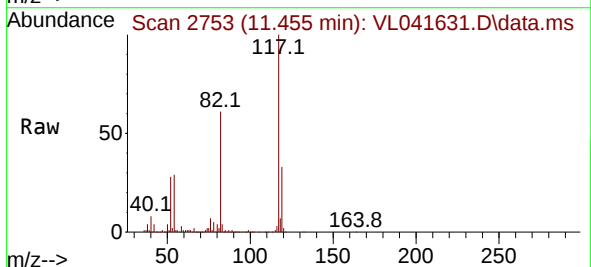
Manual Integrations
APPROVED

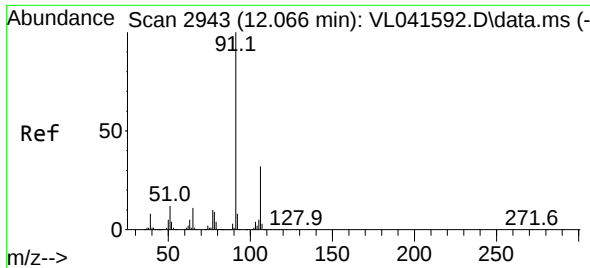
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 2753
Delta R.T. 0.010 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

Tgt Ion:117 Resp: 2439768
Ion Ratio Lower Upper
117 100
82 64.1 49.4 74.2
119 33.4 24.4 36.6





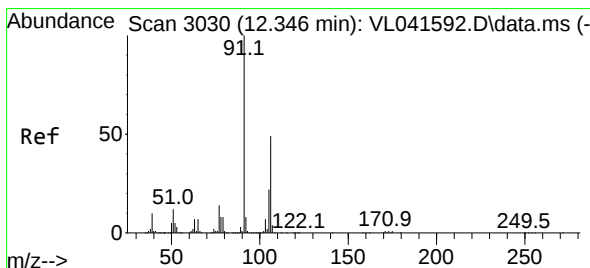
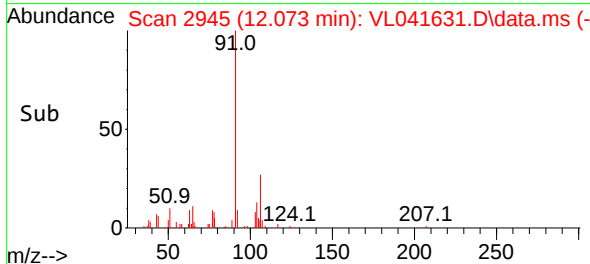
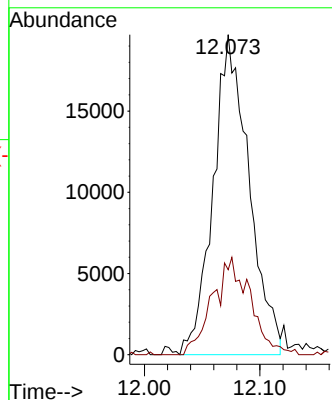
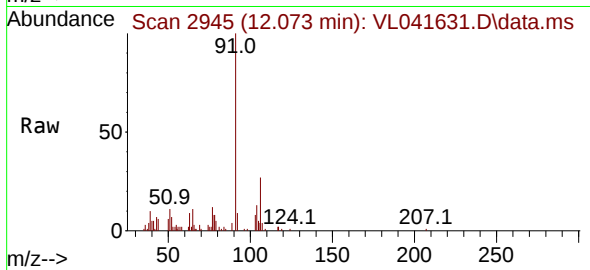
#58
Ethyl Benzene
Concen: 0.163 ppbv
RT: 12.073 min Scan# 2945
Delta R.T. 0.007 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 42460
Ion Ratio Lower Upper
91 100
106 26.6 25.8 38.6

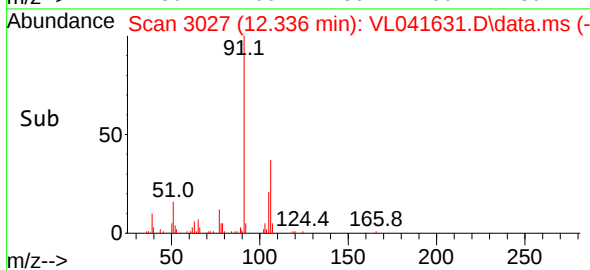
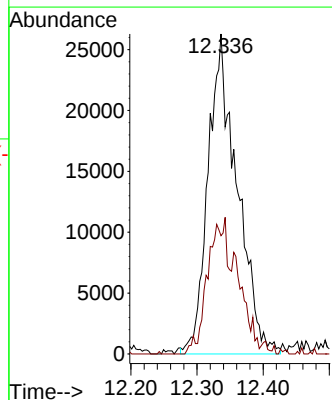
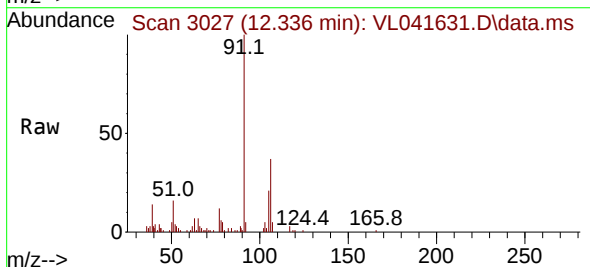
Manual Integrations
APPROVED

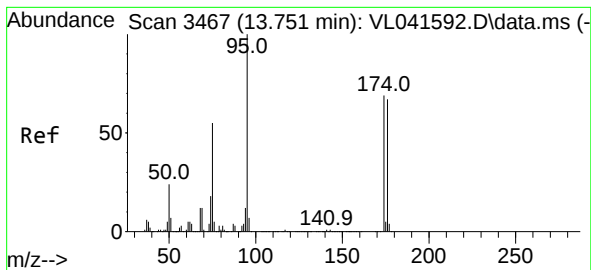
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#59
m/p-Xylene
Concen: 0.345 ppbv m
RT: 12.336 min Scan# 3027
Delta R.T. -0.010 min
Lab File: VL041631.D
Acq: 25 Sep 2024 22:36

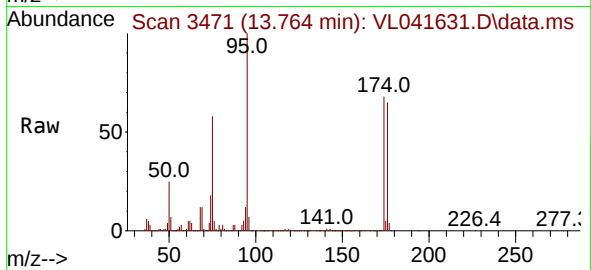
Tgt Ion: 91 Resp: 80090
Ion Ratio Lower Upper
91 100
106 44.7 36.8 55.2





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.782 ppbv
 RT: 13.764 min Scan# 3467
 Delta R.T. 0.013 min
 Lab File: VL041631.D
 Acq: 25 Sep 2024 22:36

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion: 95 Resp: 1756769
 Ion Ratio Lower Upper
 95 100
 174 72.1 55.8 83.8
 175 5.1 4.1 6.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/26/2024
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