

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080824\
 Data File : VL041521.D
 Acq On : 8 Aug 2024 20:39
 Operator : SY/MD
 Sample : P3496-07 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/09/2024
 Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 09 05:59:24 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 9 18:32:35 2024

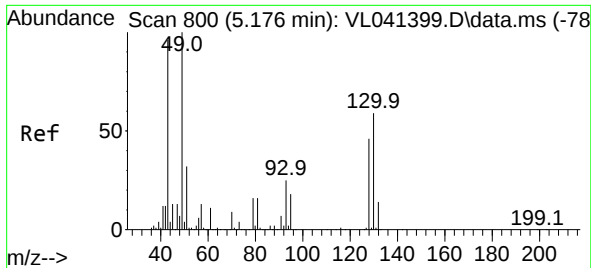
QLast Update : Tue Aug 06 01:32:58 2024

Response via : Initial Calibration

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

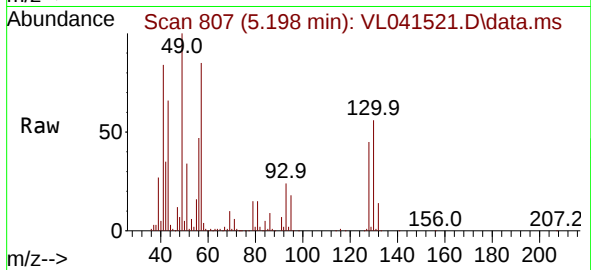
Internal Standards						
1) Bromochloromethane	5.198	49	1158699	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	3020200	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	2809147	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2234798	10.338	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.729	85	428839	2.151	ppbv	98
3) Chlorodifluoromethane	2.671	51	341811	2.478	ppbv	99
4) Chloromethane	2.812	50	70974	0.967	ppbv	98
9) Propene	2.700	41	12835239m	202.558	ppbv	
10) Heptane	7.577	43	2732714	19.194	ppbv	99
13) Ethanol	3.246	45	4171963	736.645	ppbv	96
15) Acetone	3.465	43	15459796m	117.429	ppbv	
17) tert-Butyl alcohol	3.890	59	683241	5.690	ppbv #	72
19) Isopropyl Alcohol	3.584	45	588940	7.652	ppbv #	93
20) Methylene Chloride	3.938	84	831208	16.931	ppbv	99
26) Hexane	5.211	57	1769787	16.312	ppbv #	39
27) Carbon Disulfide	4.124	76	147375	1.161	ppbv	97
30) Cyclohexane	6.600	84	931116	10.539	ppbv	94
34) 2-Butanone	4.796	43	26296800	179.995	ppbv #	50
36) Benzene	6.369	78	755120	3.422	ppbv	98
38) Trichloroethene	7.295	130	4702m	0.047	ppbv	
51) 2-Hexanone	9.539	43	1062695	6.097	ppbv #	91
53) Toluene	9.217	91	471021	1.916	ppbv	99
58) Ethyl Benzene	12.082	91	1006642	3.109	ppbv	98
59) m/p-Xylene	12.336	91	2333751	8.350	ppbv	95
60) o-Xylene	13.047	91	675408	2.554	ppbv	99
69) p-Isopropyltoluene	16.989	119	193047	0.465	ppbv	95
73) 1,3,5-Trimethylbenzene	15.339	105	28537m	0.106	ppbv	
74) 1,2,4-Trimethylbenzene	16.095	105	91867	0.295	ppbv #	64

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.009 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39

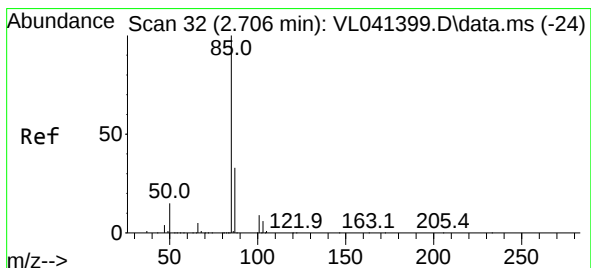
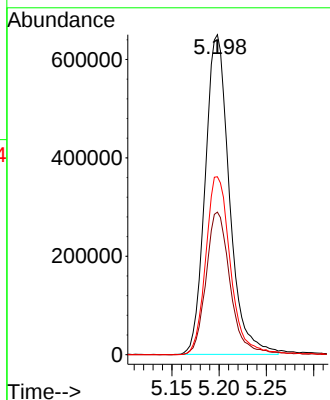
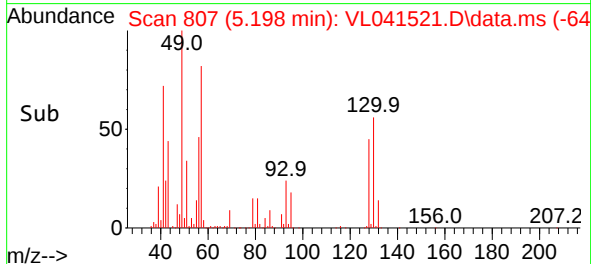
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 49 Resp: 115869
Ion Ratio Lower Upper
49 100
128 45.0 23.8 71.4
130 57.3 30.8 92.4

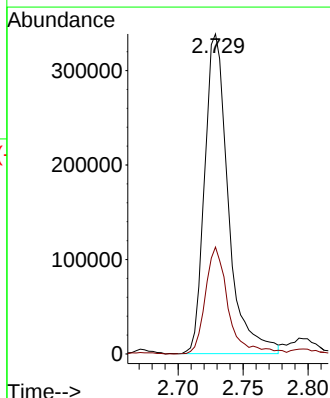
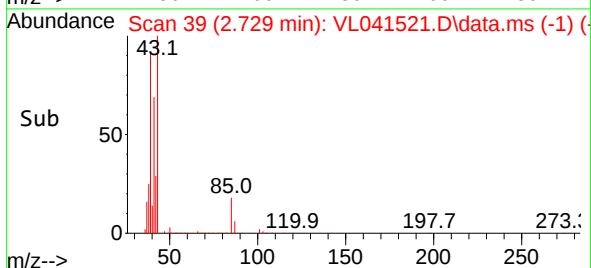
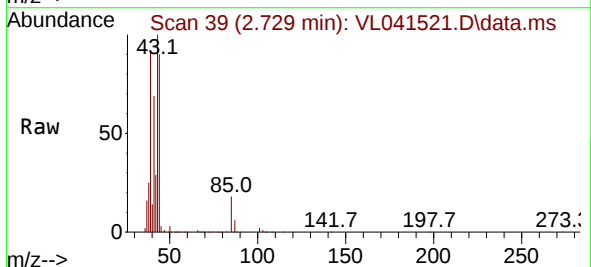
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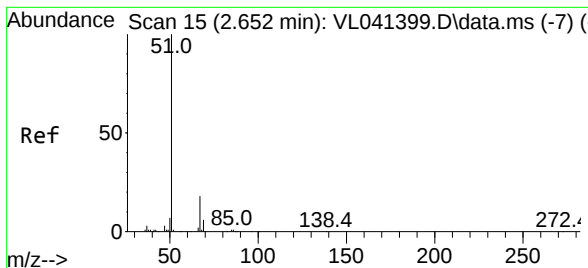
Reviewed By :Semsettin Yesilyurt 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024



#2
Dichlorodifluoromethane
Concen: 2.151 ppbv
RT: 2.729 min Scan# 39
Delta R.T. -0.003 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39

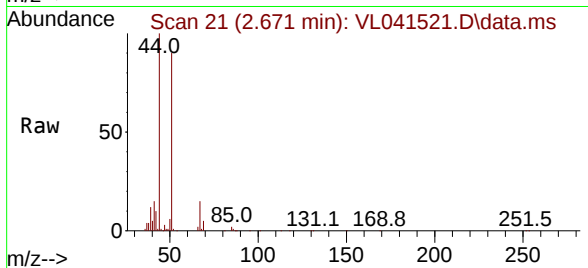
Tgt Ion: 85 Resp: 428839
Ion Ratio Lower Upper
85 100
87 33.4 26.0 39.0





#3
Chlorodifluoromethane
Concen: 2.478 ppbv
RT: 2.671 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39

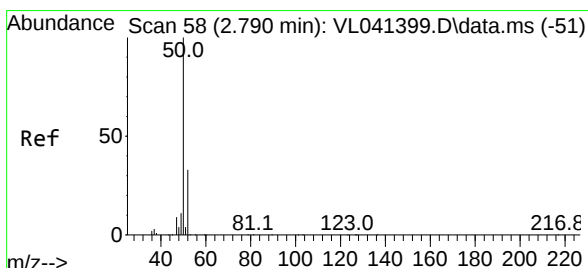
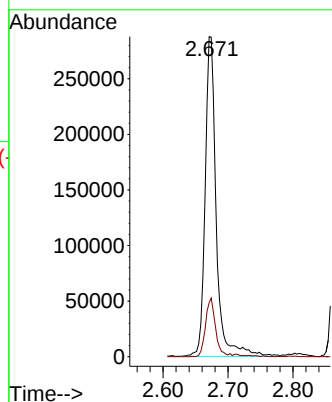
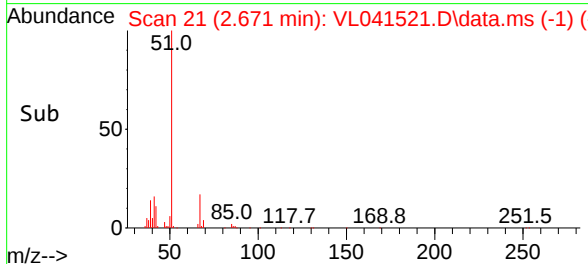
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 51 Resp: 34181
Ion Ratio Lower Upper
51 100
67 17.5 14.5 21.7

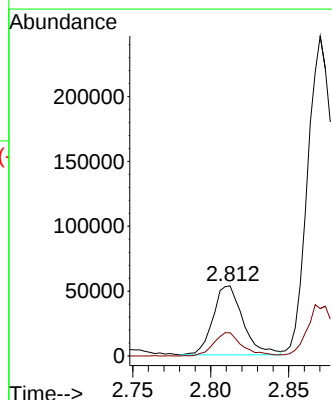
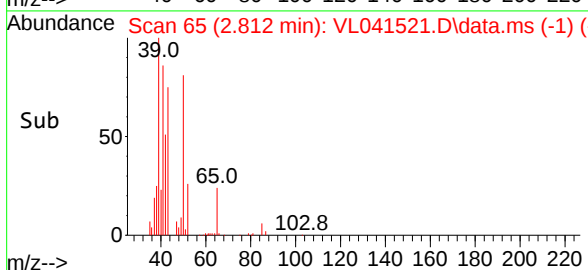
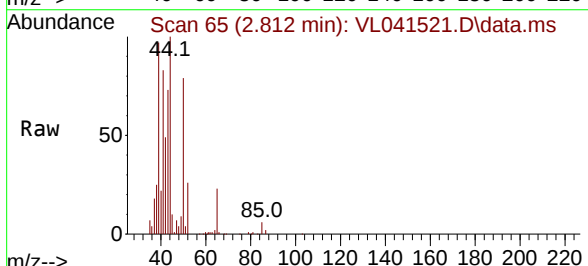
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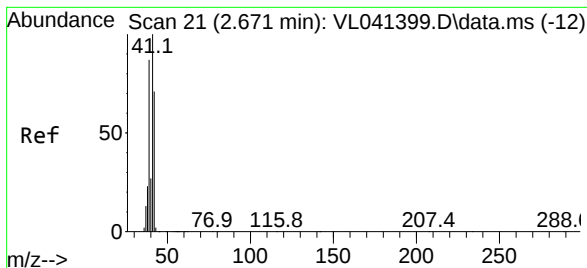
Reviewed By :Semsettin Yesilyurt 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024



#4
Chloromethane
Concen: 0.967 ppbv
RT: 2.812 min Scan# 65
Delta R.T. -0.003 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39

Tgt Ion: 50 Resp: 70974
Ion Ratio Lower Upper
50 100
52 33.6 26.1 39.1





#9

Propene

Concen: 202.558 ppbv m

RT: 2.700 min Scan# 30

Delta R.T. 0.003 min

Lab File: VL041521.D

Acq: 8 Aug 2024 20:39

Instrument :

MSVOA_L

ClientSampleId :

SV-1

Tgt Ion: 41 Resp:12835239

Ion Ratio Lower Upper

41 100

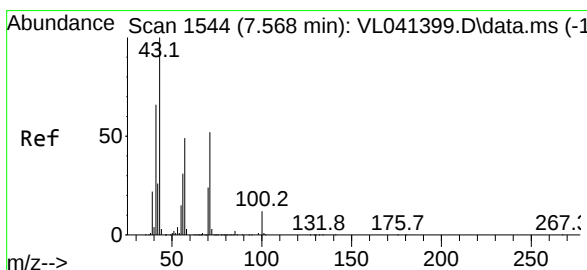
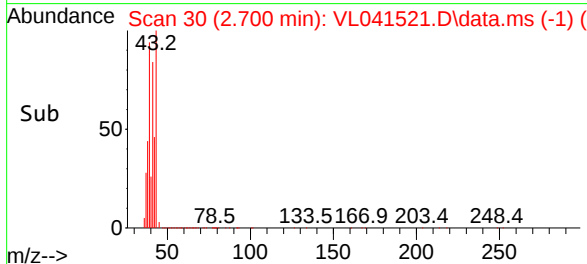
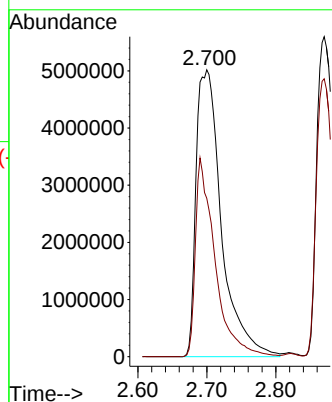
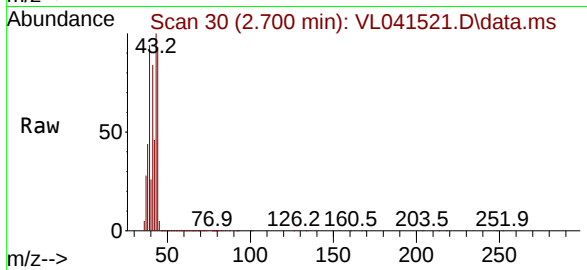
42 0.0 55.9 83.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/09/2024

Supervised By :Mahesh Dadoda 08/09/2024



#10

Heptane

Concen: 19.194 ppbv

RT: 7.577 min Scan# 1547

Delta R.T. 0.003 min

Lab File: VL041521.D

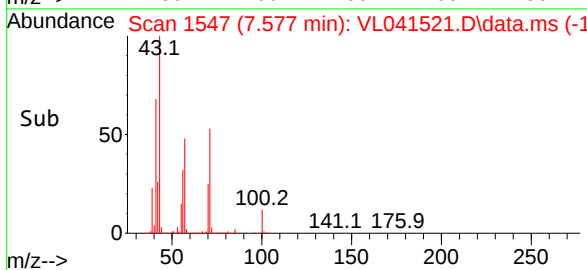
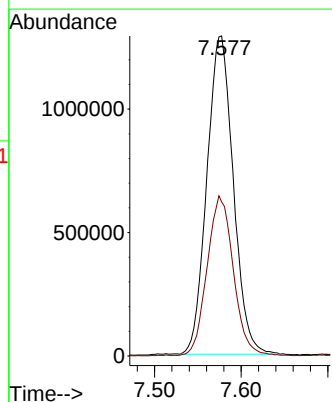
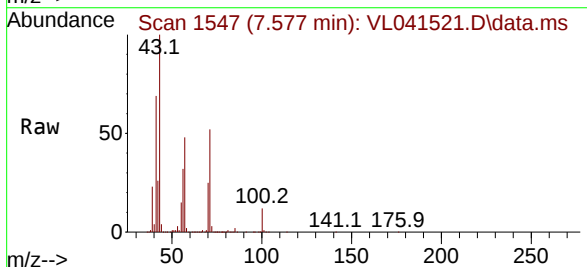
Acq: 8 Aug 2024 20:39

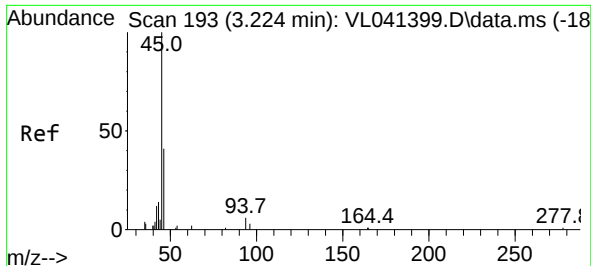
Tgt Ion: 43 Resp: 2732714

Ion Ratio Lower Upper

43 100

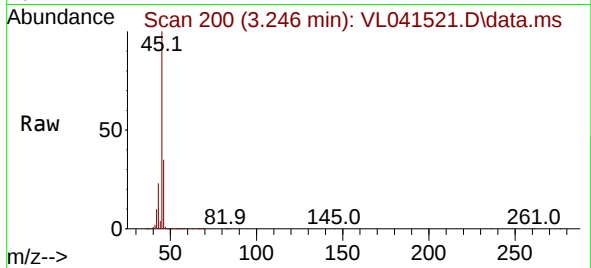
57 50.0 40.5 60.7





#13
Ethanol
Concen: 736.645 ppbv
RT: 3.246 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39

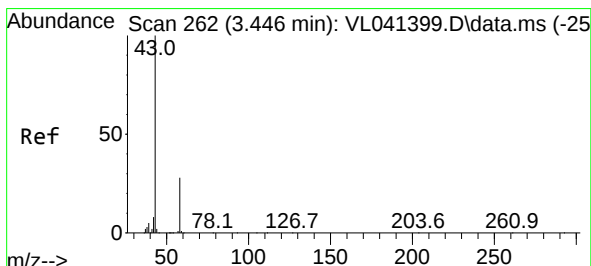
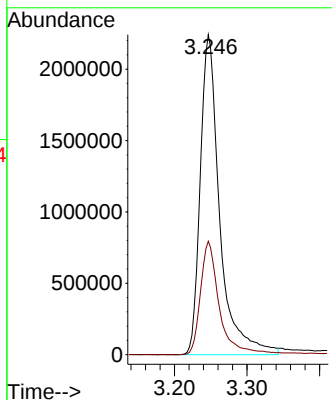
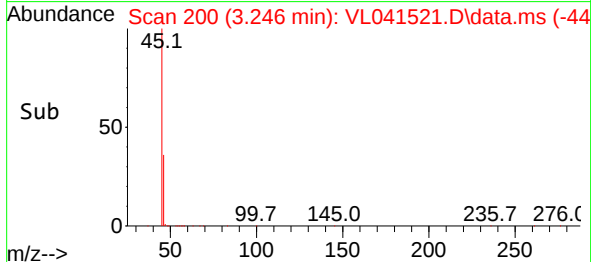
Instrument :
MSVOA_L
ClientSampleId :
SV-1



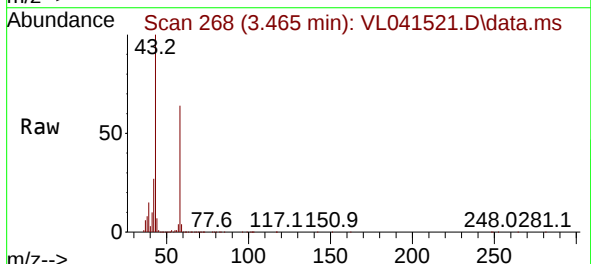
Tgt Ion: 45 Resp: 417196
Ion Ratio Lower Upper
45 100
46 35.5 13.4 53.4

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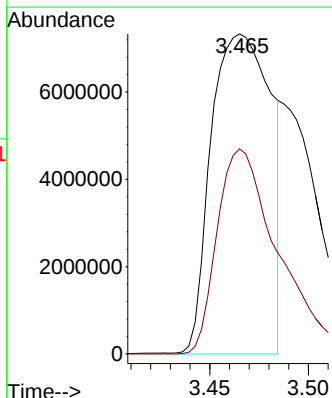
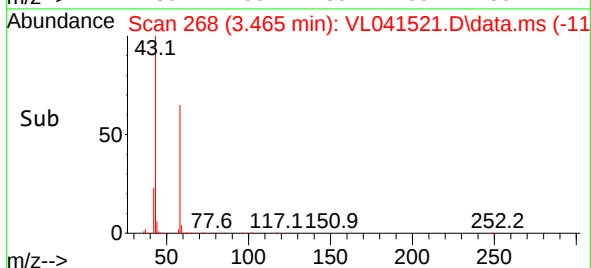
Reviewed By :Semsettin Yesilyurt 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

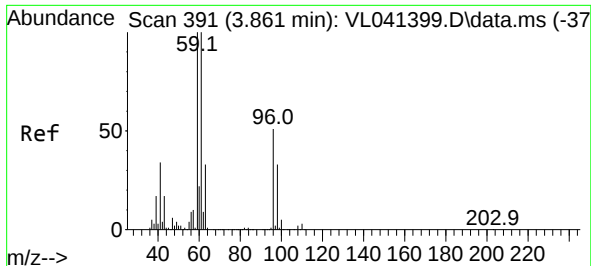


#15
Acetone
Concen: 117.429 ppbv m
RT: 3.465 min Scan# 268
Delta R.T. -0.003 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39



Tgt Ion: 43 Resp:15459796
Ion Ratio Lower Upper
43 100
58 68.8 21.4 32.2#





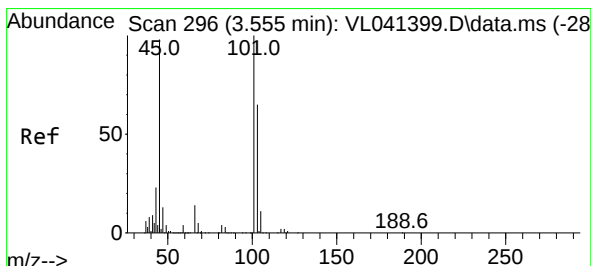
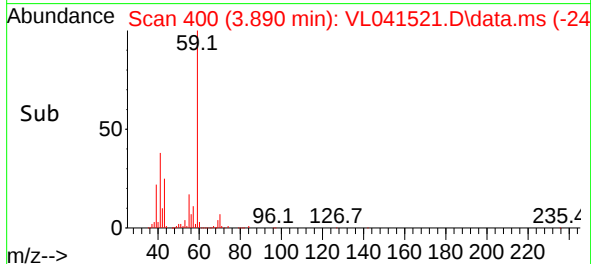
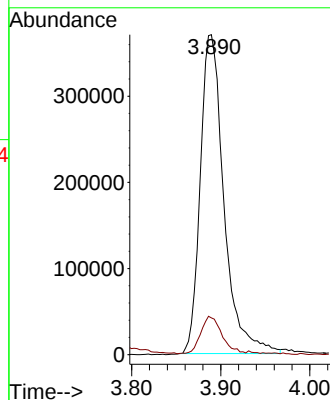
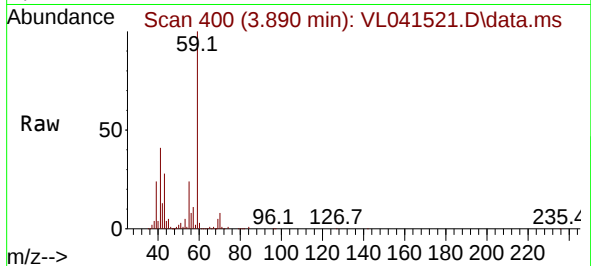
#17
tert-Butyl alcohol
Concen: 5.690 ppbv
RT: 3.890 min Scan# 40
Delta R.T. 0.013 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 59 Resp: 68324
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8

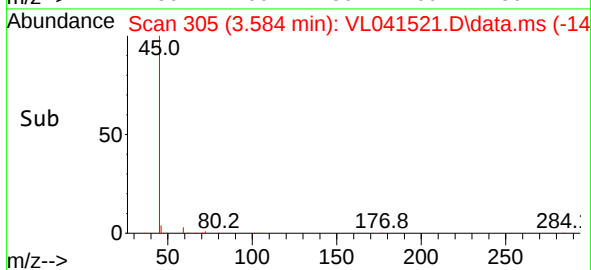
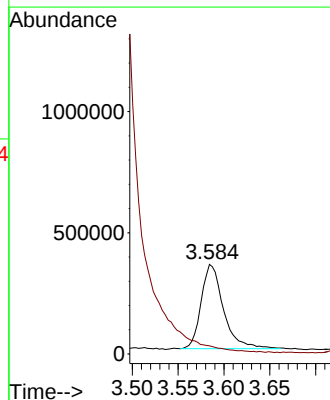
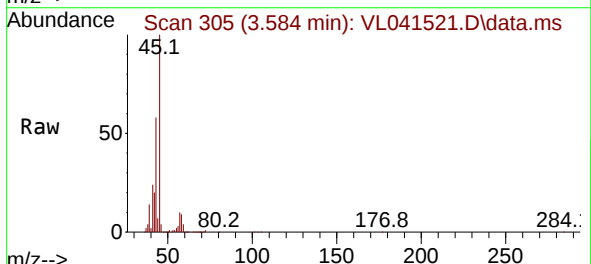
Manual Integrations
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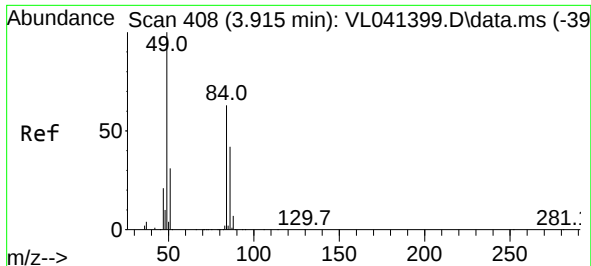
Reviewed By :Semsettin Yesilyurt 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024



#19
Isopropyl Alcohol
Concen: 7.652 ppbv
RT: 3.584 min Scan# 305
Delta R.T. 0.010 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39

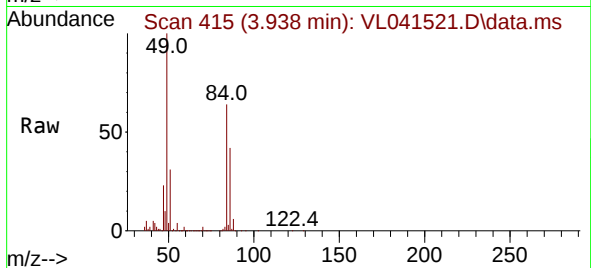
Tgt Ion: 45 Resp: 588940
Ion Ratio Lower Upper
45 100
58 0.0 1.9 2.9





#20
Methylene Chloride
Concen: 16.931 ppbv
RT: 3.938 min Scan# 415
Delta R.T. 0.006 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39

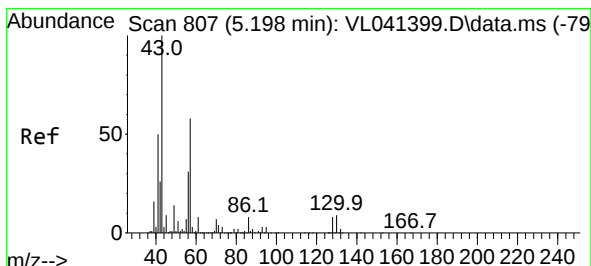
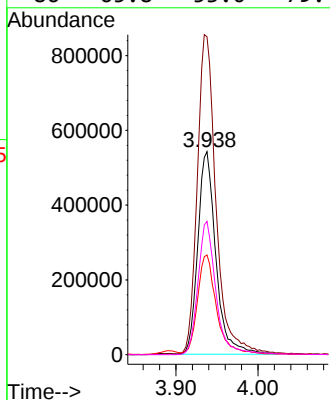
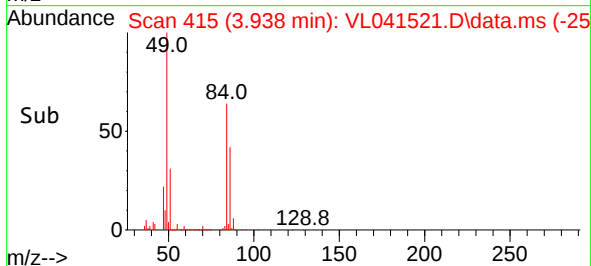
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 84 Resp: 831208
Ion Ratio Lower Upper
84 100
49 156.6 126.6 190.0
51 48.8 38.6 58.0
86 65.8 53.0 79.4

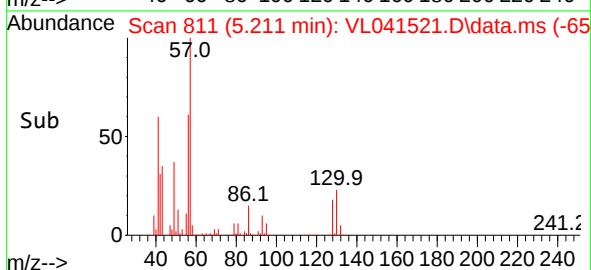
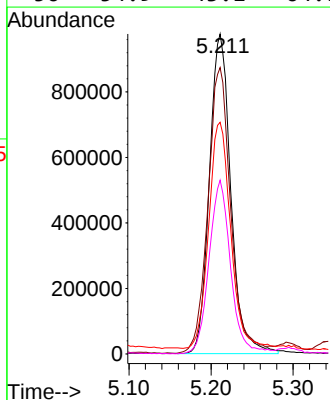
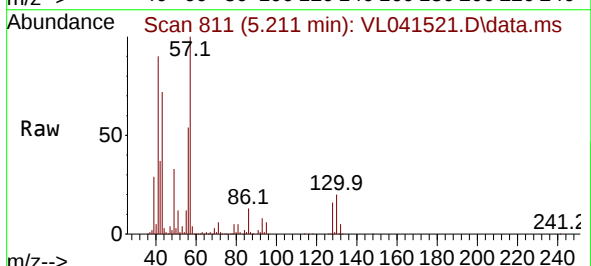
Manual Integrations
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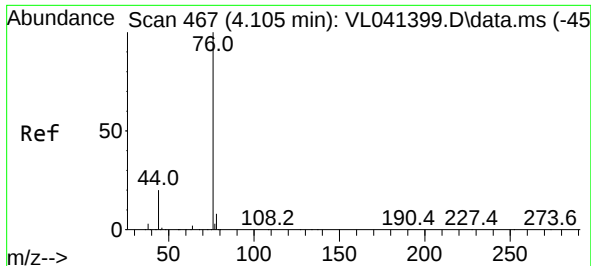
Reviewed By :Semsettin Yesilyurt 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024



#26
Hexane
Concen: 16.312 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.000 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39

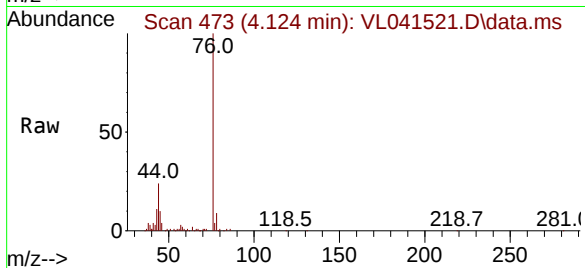
Tgt Ion: 57 Resp: 1769787
Ion Ratio Lower Upper
57 100
41 95.3 74.0 111.0
43 77.2 193.6 290.4#
56 54.9 43.1 64.7





#27
Carbon Disulfide
Concen: 1.161 ppbv
RT: 4.124 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39

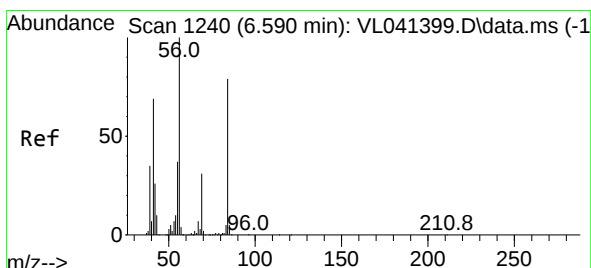
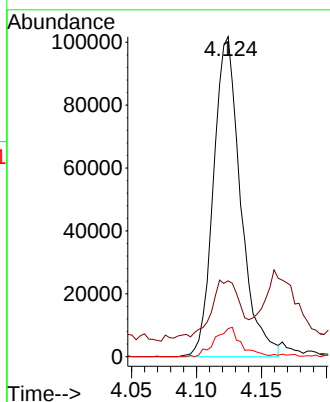
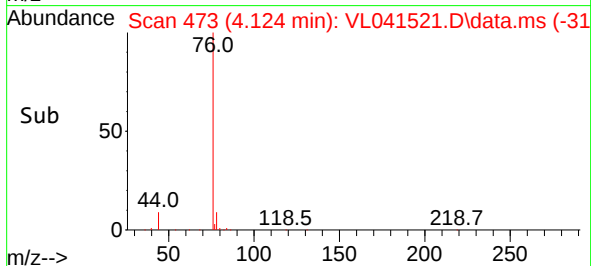
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 76 Resp: 147375
Ion Ratio Lower Upper
76 100
44 21.1 15.6 23.4
78 9.4 7.7 11.5

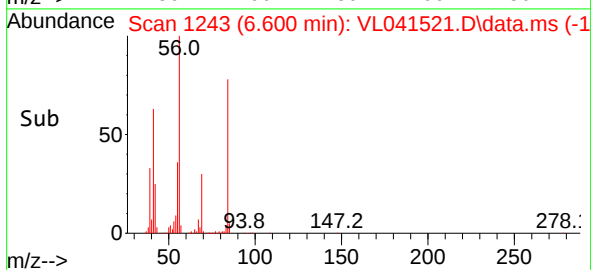
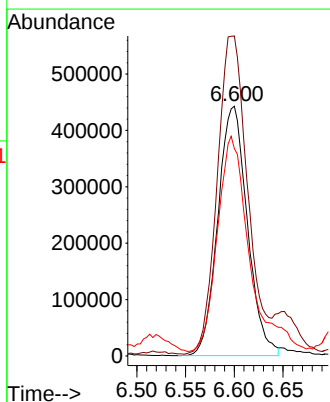
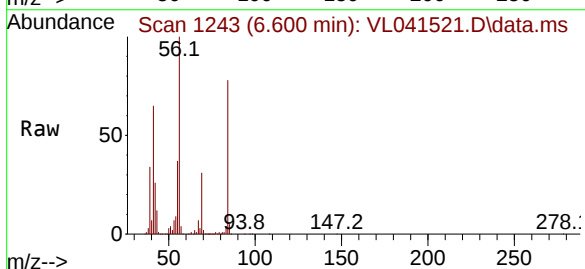
Manual Integrations
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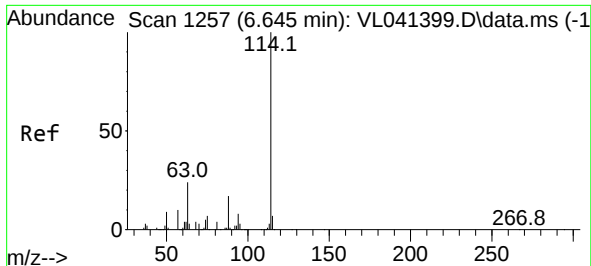
Reviewed By :Semsettin Yesilyurt 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024



#30
Cyclohexane
Concen: 10.539 ppbv
RT: 6.600 min Scan# 1243
Delta R.T. 0.003 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39

Tgt Ion: 84 Resp: 931116
Ion Ratio Lower Upper
84 100
56 144.9 111.2 166.8
41 95.6 70.3 105.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 114

Delta R.T. 0.010 min

Lab File: VL041521.D

Acq: 8 Aug 2024 20:39

Instrument :

MSVOA_L

ClientSampleId :

SV-1

Tgt Ion:114 Resp: 3020200

Ion Ratio Lower Upper

114 100

63 25.4 20.3 30.5

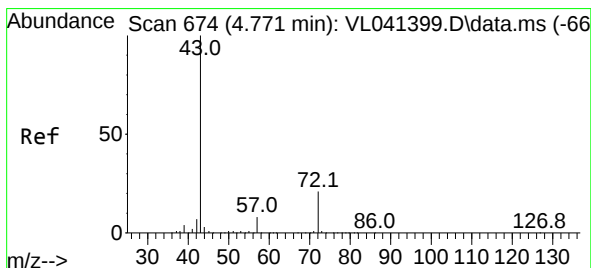
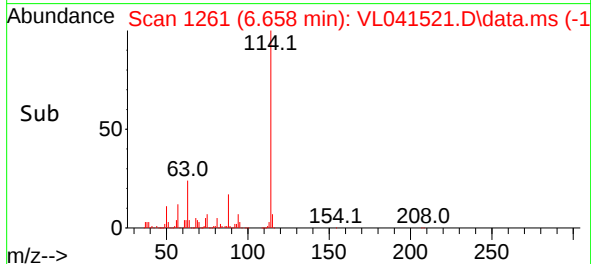
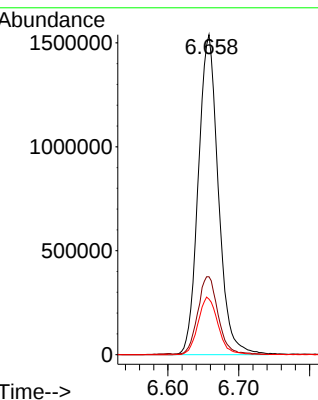
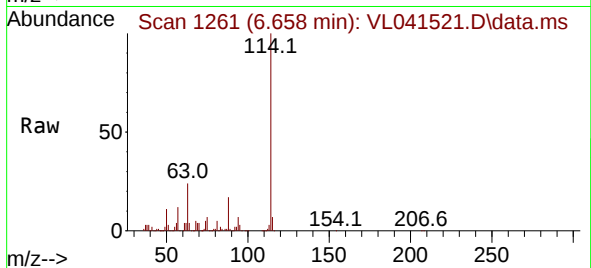
88 18.0 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/09/2024

Supervised By :Mahesh Dadoda 08/09/2024



#34

2-Butanone

Concen: 179.995 ppbv

RT: 4.796 min Scan# 682

Delta R.T. 0.013 min

Lab File: VL041521.D

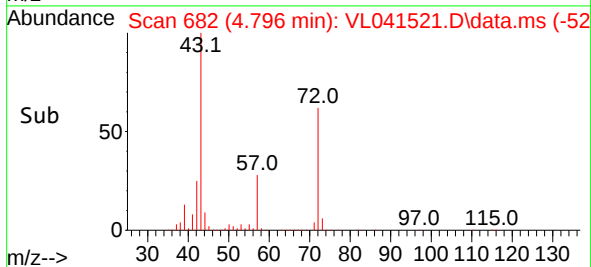
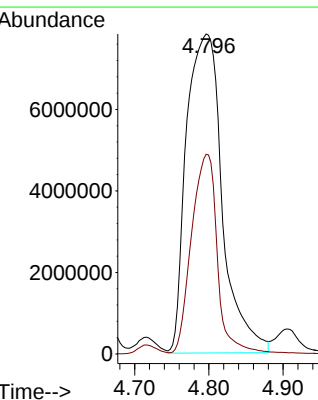
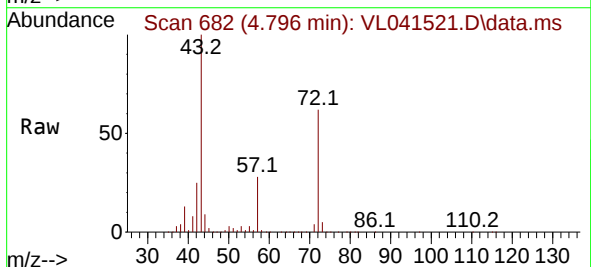
Acq: 8 Aug 2024 20:39

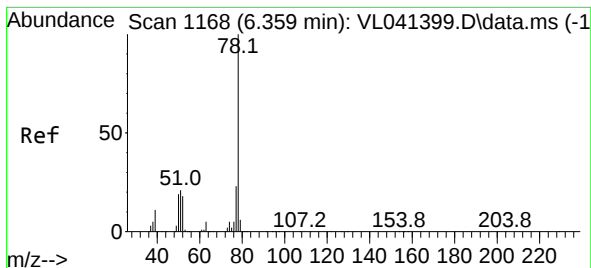
Tgt Ion: 43 Resp:26296800

Ion Ratio Lower Upper

43 100

72 45.2 17.3 25.9#





#36

Benzene

Concen: 3.422 ppbv

RT: 6.369 min Scan# 1168

Delta R.T. -0.000 min

Lab File: VL041521.D

Acq: 8 Aug 2024 20:39

Instrument :

MSVOA_L

ClientSampleId :

SV-1

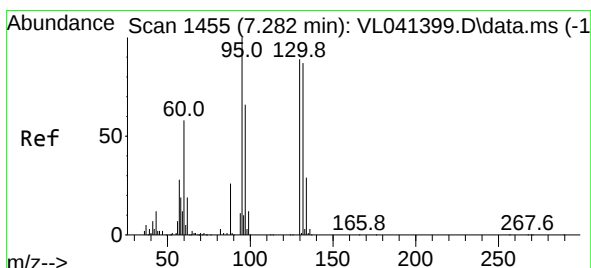
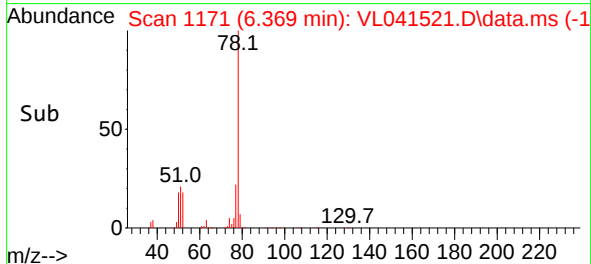
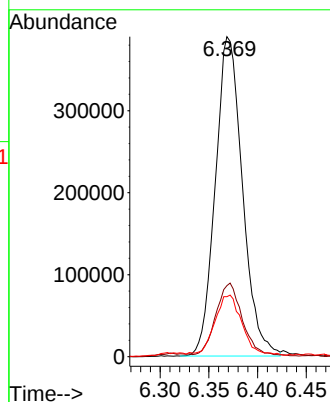
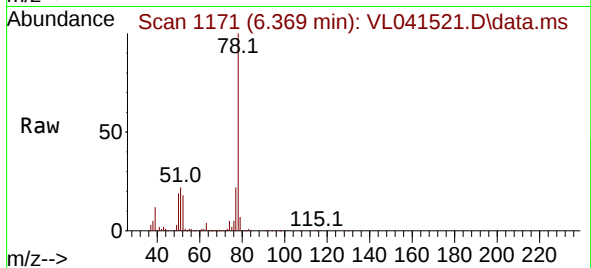
Tgt Ion: 78 Resp: 755120

Ion	Ratio	Lower	Upper
78	100		
77	21.7	18.1	27.1
50	18.0	15.5	23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024



#38

Trichloroethene

Concen: 0.047 ppbv m

RT: 7.295 min Scan# 1459

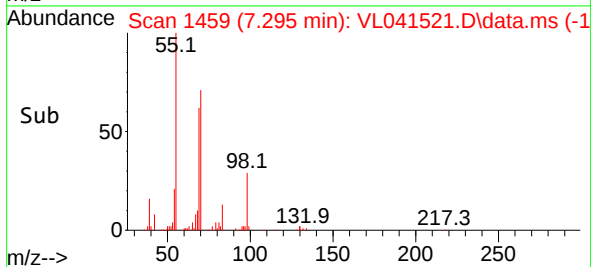
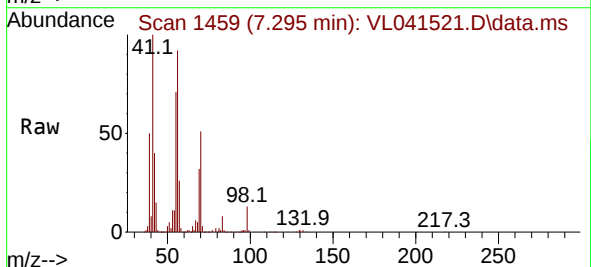
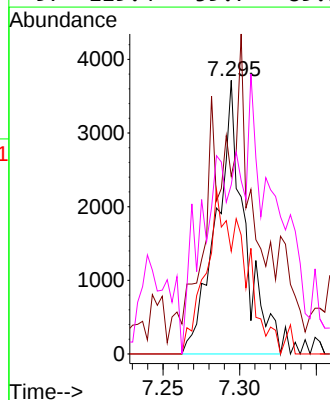
Delta R.T. 0.006 min

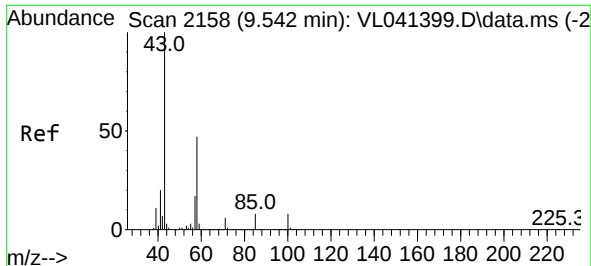
Lab File: VL041521.D

Acq: 8 Aug 2024 20:39

Tgt Ion:130 Resp: 4702

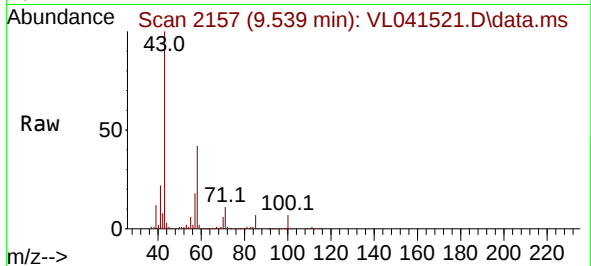
Ion	Ratio	Lower	Upper
130	100		
95	125.4	90.2	135.2
132	72.6	78.1	117.1#
97	119.4	59.7	89.5#





#51
2-Hexanone
Concen: 6.097 ppbv
RT: 9.539 min Scan# 2158
Delta R.T. -0.006 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39

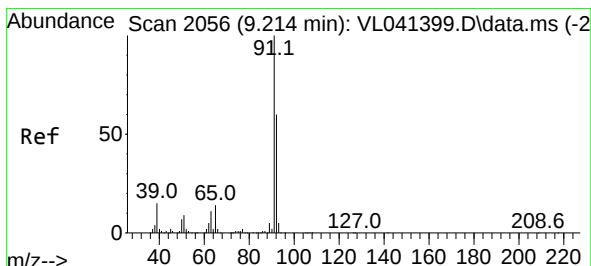
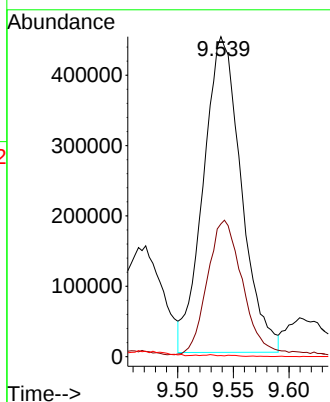
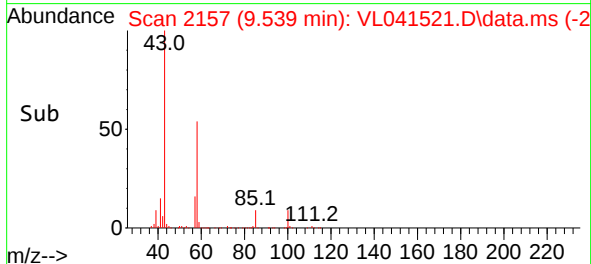
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 43 Resp: 106269
Ion Ratio Lower Upper
43 100
58 41.8 38.2 57.2
98 0.0 0.3 0.5

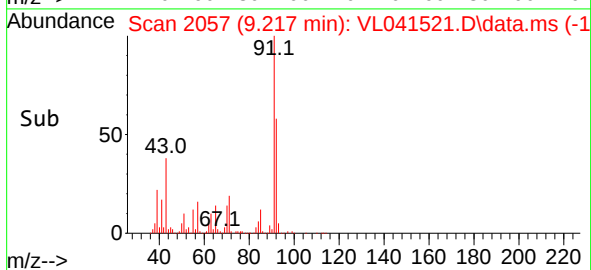
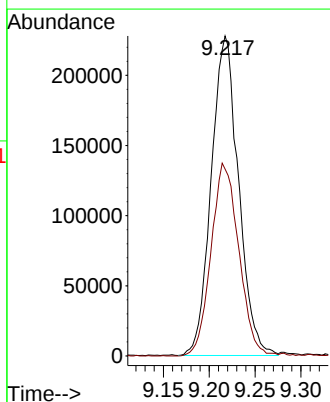
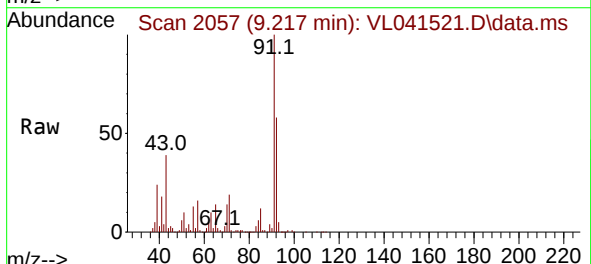
Manual Integrations
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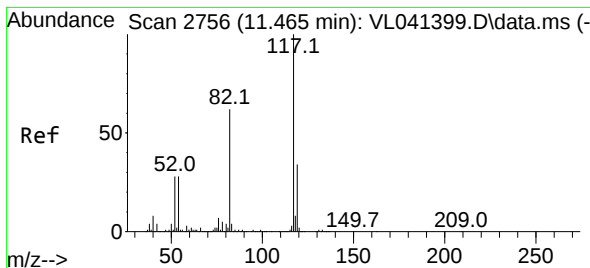
Reviewed By :Semsettin Yesilyurt 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024



#53
Toluene
Concen: 1.916 ppbv
RT: 9.217 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39

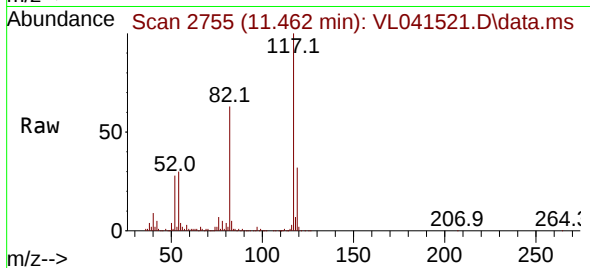
Tgt Ion: 91 Resp: 471021
Ion Ratio Lower Upper
91 100
92 61.7 48.7 73.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39

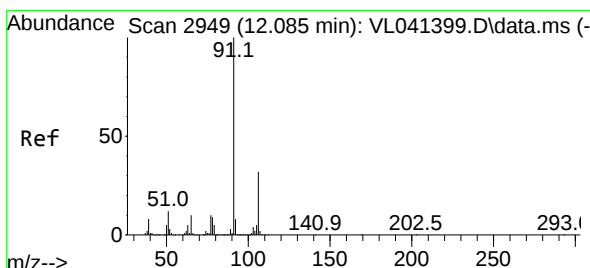
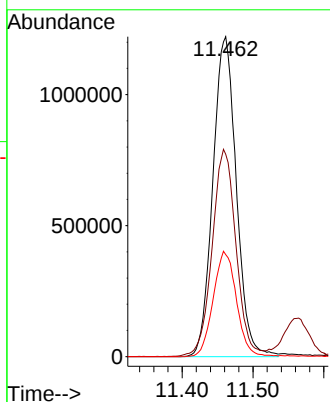
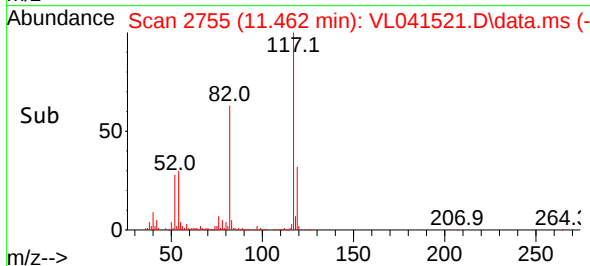
Instrument :
MSVOA_L
ClientSampleId :
SV-1



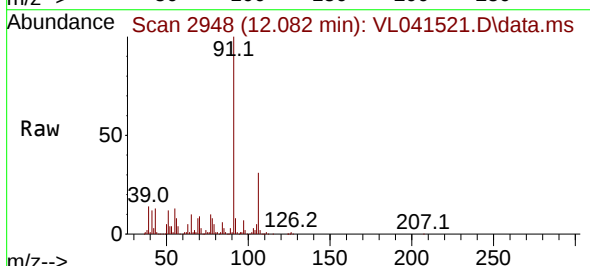
Tgt Ion:117 Resp: 280914
Ion Ratio Lower Upper
117 100
82 65.8 51.0 76.6
119 33.2 45.2 67.8

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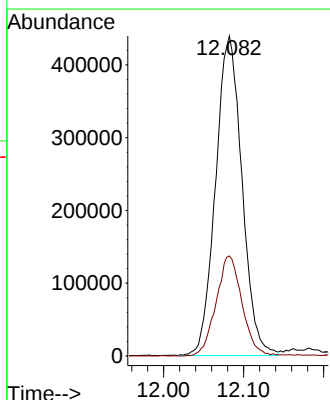
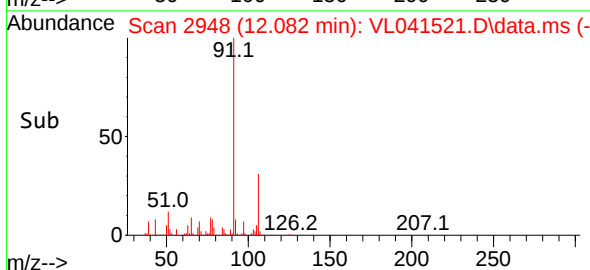
Reviewed By :Semsettin Yesilyurt 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024

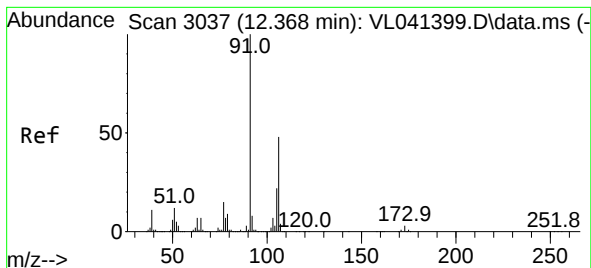


#58
Ethyl Benzene
Concen: 3.109 ppbv
RT: 12.082 min Scan# 2948
Delta R.T. -0.003 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39



Tgt Ion: 91 Resp: 1006642
Ion Ratio Lower Upper
91 100
106 31.3 25.8 38.8





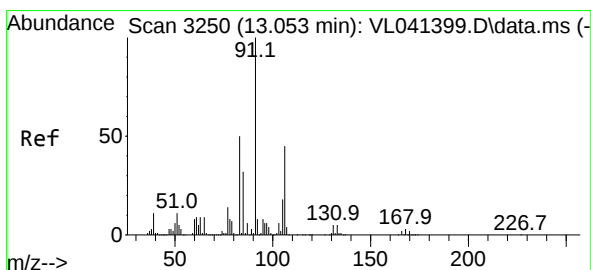
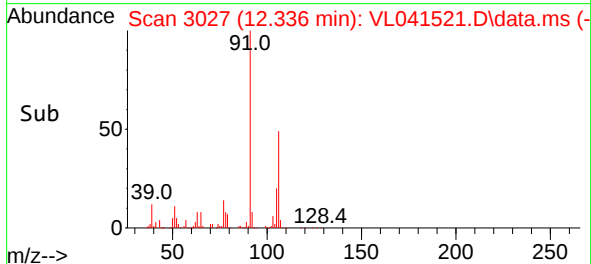
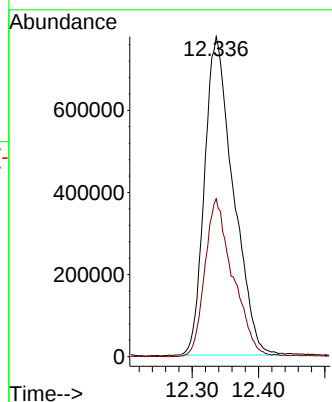
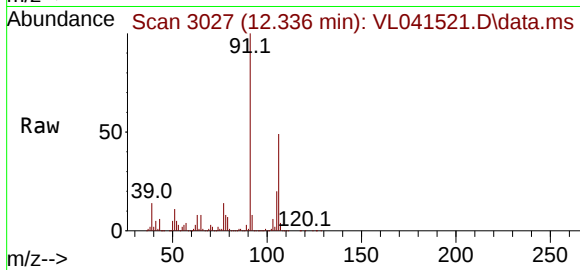
#59
m/p-Xylene
Concen: 8.350 ppbv
RT: 12.336 min Scan# 3037
Delta R.T. -0.032 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 91 Resp: 233375
Ion Ratio Lower Upper
91 100
106 49.0 36.3 54.5

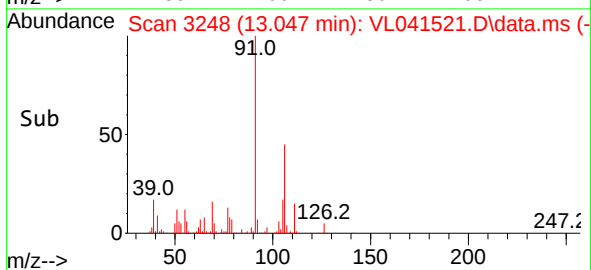
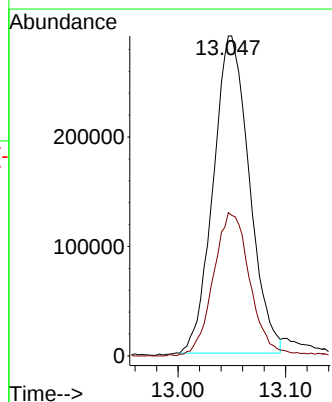
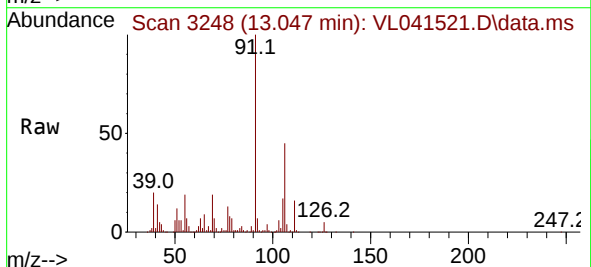
Manual Integrations
APPROVED

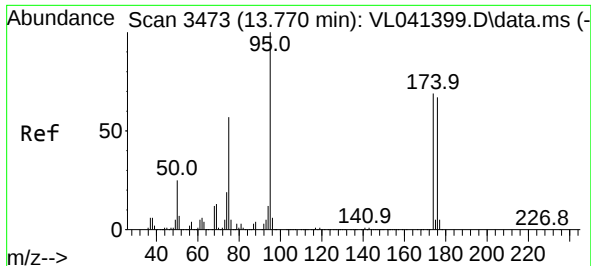
Reviewed By :Semsettin Yesilyurt 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024



#60
o-Xylene
Concen: 2.554 ppbv
RT: 13.047 min Scan# 3248
Delta R.T. -0.006 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39

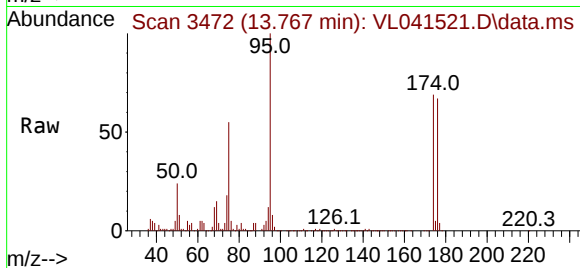
Tgt Ion: 91 Resp: 675408
Ion Ratio Lower Upper
91 100
106 46.7 23.1 69.3





#68
1-Bromo-4-Fluorobenzene
Concen: 10.338 ppbv
RT: 13.767 min Scan# 3472
Delta R.T. -0.000 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39

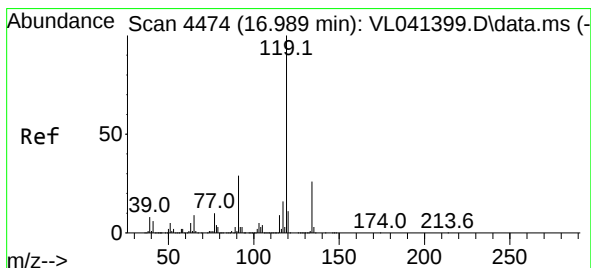
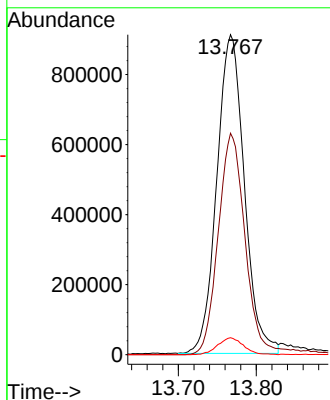
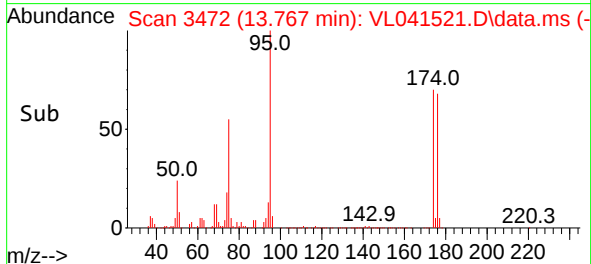
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 95 Resp: 2234798
Ion Ratio Lower Upper
95 100
174 69.7 56.3 84.5
175 5.0 4.0 6.0

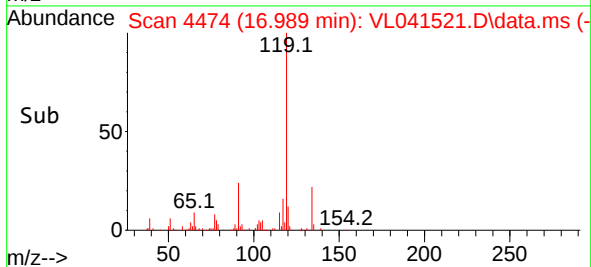
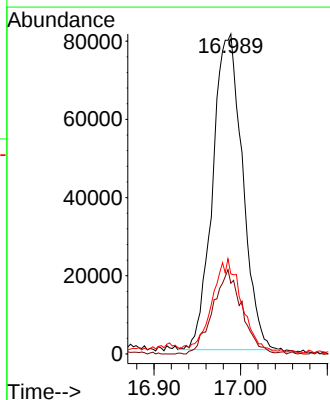
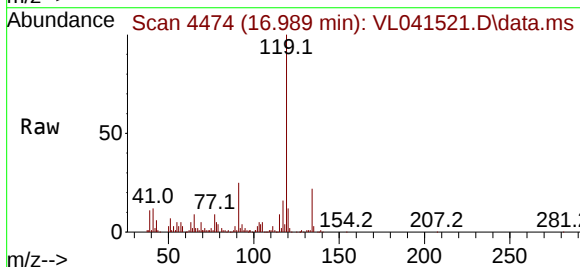
Manual Integrations
APPROVED

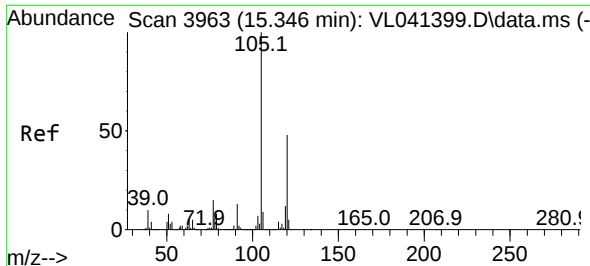
Reviewed By :Semsettin Yesilyurt 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024



#69
p-Isopropyltoluene
Concen: 0.465 ppbv
RT: 16.989 min Scan# 4474
Delta R.T. -0.000 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39

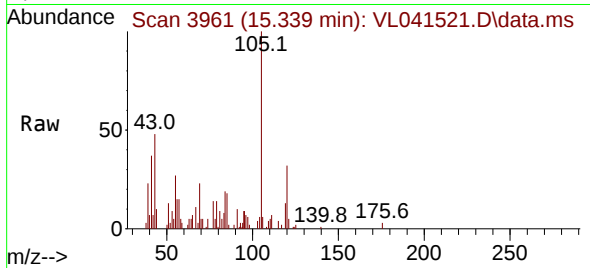
Tgt Ion:119 Resp: 193047
Ion Ratio Lower Upper
119 100
134 26.2 20.5 30.7
91 33.2 23.2 34.8





#73
1,3,5-Trimethylbenzene
Concen: 0.106 ppbv m
RT: 15.339 min Scan# 3961
Delta R.T. -0.006 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39

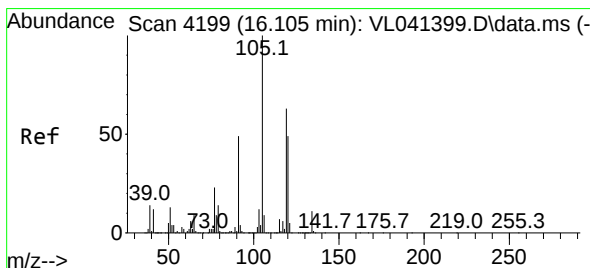
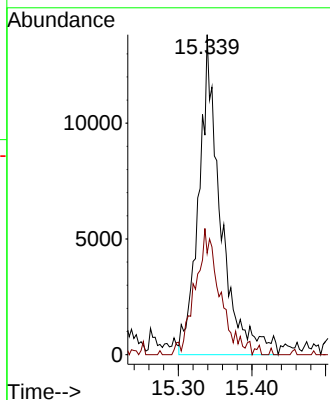
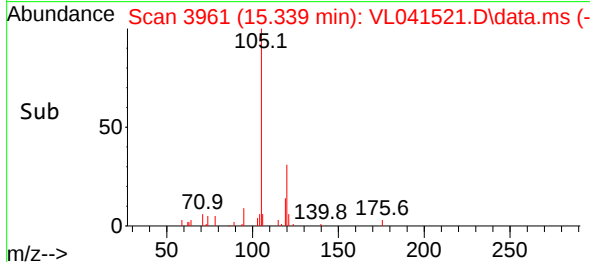
Instrument :
MSVOA_L
ClientSampleId :
SV-1



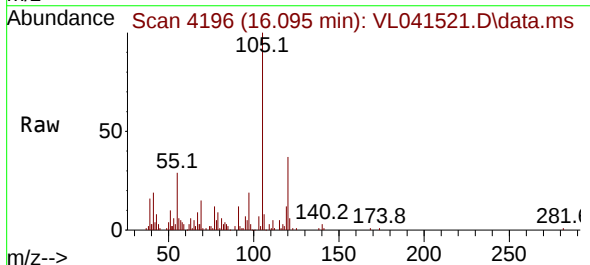
Tgt Ion:105 Resp: 2853
Ion Ratio Lower Upper
105 100
120 31.7 38.6 57.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/09/2024
Supervised By :Mahesh Dadoda 08/09/2024



#74
1,2,4-Trimethylbenzene
Concen: 0.295 ppbv
RT: 16.095 min Scan# 4196
Delta R.T. -0.006 min
Lab File: VL041521.D
Acq: 8 Aug 2024 20:39



Tgt Ion:105 Resp: 91867
Ion Ratio Lower Upper
105 100
120 36.2 39.5 59.3#
91 10.0 39.8 59.8#
77 10.6 18.2 27.4#

