

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041794.D
 Acq On : 18 Dec 2024 15:03
 Operator : SY/MD
 Sample : MDL 0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL 0.03

Quant Time: Dec 19 07:54:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 12/23/2024
 Supervised By : Mahesh Dadoda 12/23/2024

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

Internal Standards						
1) Bromochloromethane	2.790	49	69139	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	171284	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	146480	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	123367	10.107	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	381	0.031	ppbv #	59
3) Chlorodifluoromethane	1.479	51	383	0.034	ppbv	92
4) Chloromethane	1.538	50	323	0.067	ppbv #	42
5) Vinyl Chloride	1.580	62	252	0.052	ppbv #	72
8) Dichlorotetrafluoroethane	1.554	85	349	0.032	ppbv	87
9) Propene	1.486	41	401	0.082	ppbv	94
11) Trichlorofluoromethane	1.881	101	534	0.041	ppbv	89
12) 1,1,2-Trichlorotrifluoro...	2.143	101	313	0.031	ppbv #	58
13) Ethanol	1.719	45	99	0.245	ppbv #	34
15) Acetone	1.839	43	1684	0.125	ppbv	95
16) 1,3-Butadiene	1.609	39	491	0.093	ppbv #	56
17) tert-Butyl alcohol	2.046	59	509	0.038	ppbv #	89
18) 1,1-Dichloroethene	2.033	96	142	0.034	ppbv #	65
19) Isopropyl Alcohol	1.890	45	1586	0.196	ppbv #	34
20) Methylene Chloride	2.065	84	575	0.150	ppbv #	67
21) Allyl Chloride	2.101	41	269	0.037	ppbv #	50
22) trans-1,2-Dichloroethene	2.340	96	167	0.035	ppbv #	79
28) Methyl tert-Butyl Ether	2.450	73	347	0.045	ppbv #	79
31) cis-1,2-Dichloroethene	2.719	61	300	0.031	ppbv #	26
37) 1,2-Dichloroethane	3.227	62	343	0.031	ppbv #	94
39) 1,2-Dichloropropane	3.965	63	48116	7.509	ppbv #	18
63) 1,1,2,2-Tetrachloroethane	9.972	83	401	0.030	ppbv #	89
66) Benzyl Chloride	11.536	91	393	0.155	ppbv #	66
81) 1,2,4-Trichlorobenzene	13.448	180	305	0.036	ppbv #	59

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

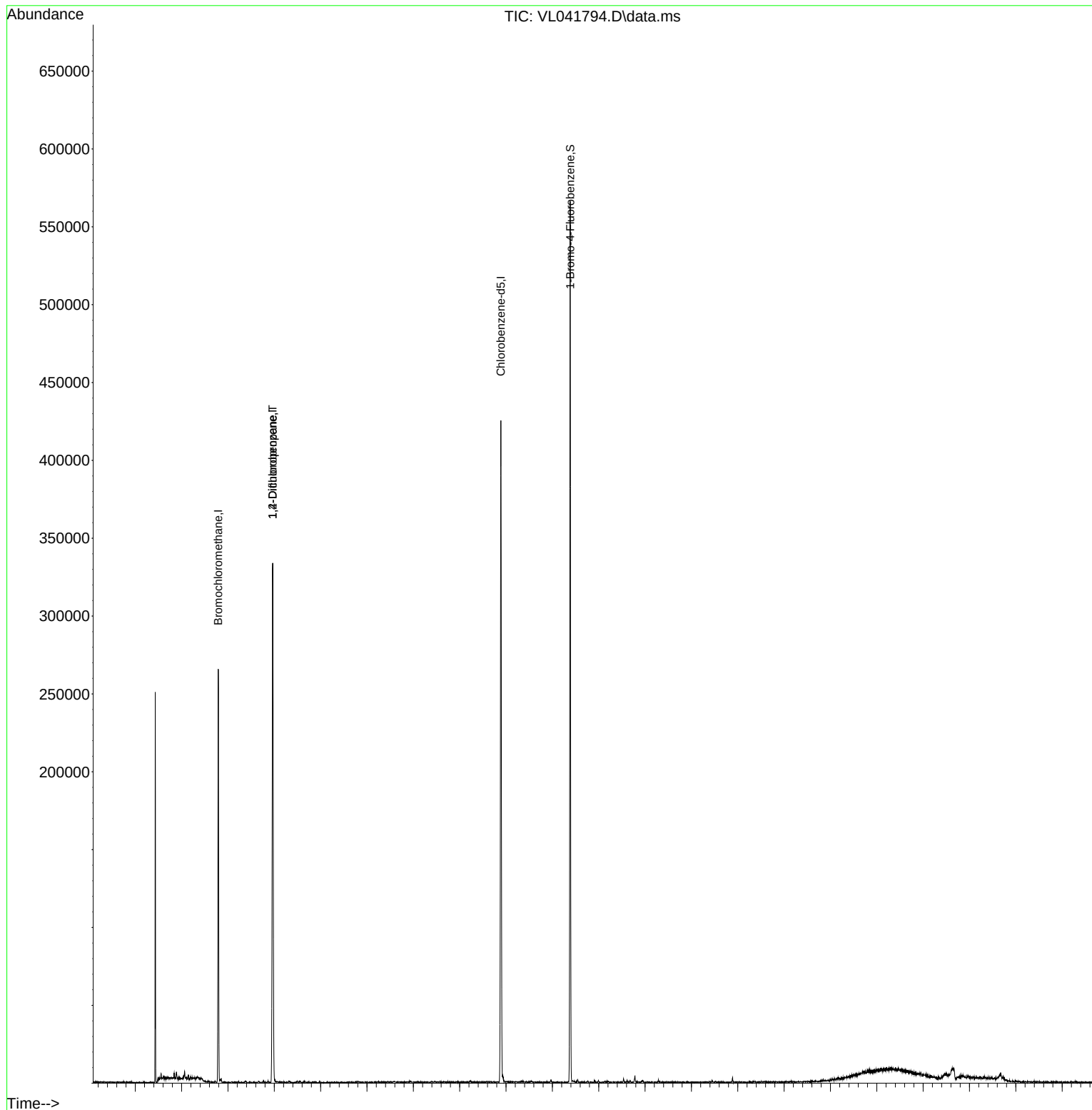
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041794.D
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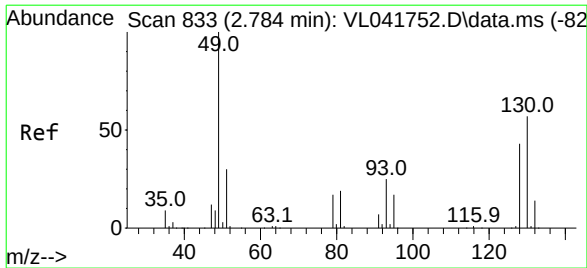
Instrument :
MSVOA_L
ClientSampleId :
MDL 0.03

Quant Time: Dec 19 07:54:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 07:32:09 2024
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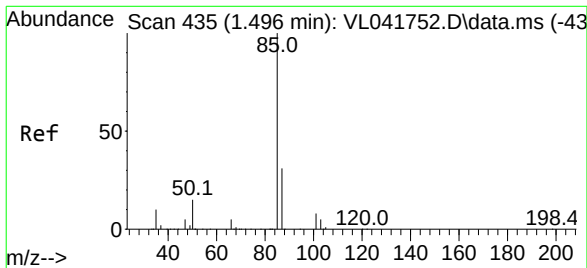
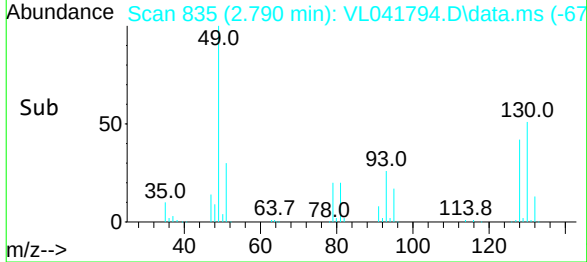
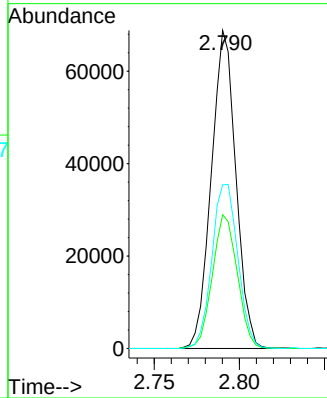
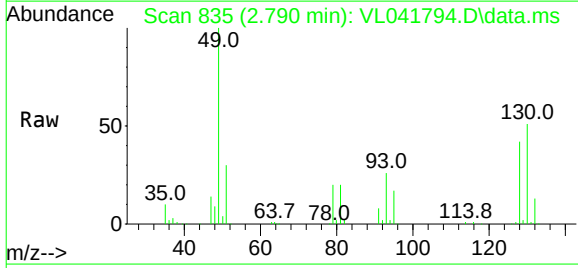
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 833
Delta R.T. 0.006 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03

Instrument :
MSVOA_L
ClientSampleId :
MDL 0.03

Tgt Ion	Ratio	Lower	Upper
49	100		
128	42.6	21.6	64.6
130	54.6	28.3	85.0

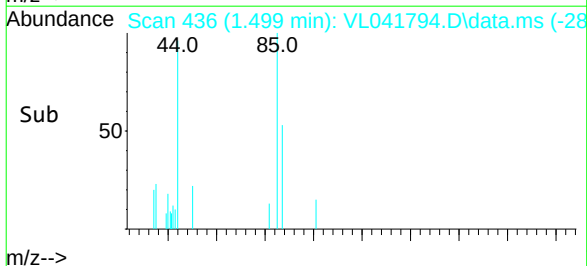
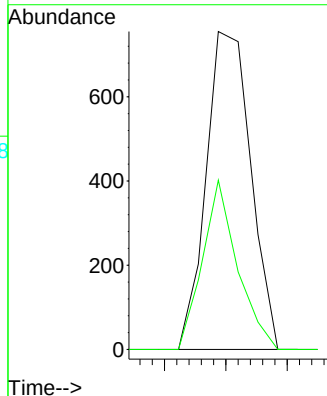
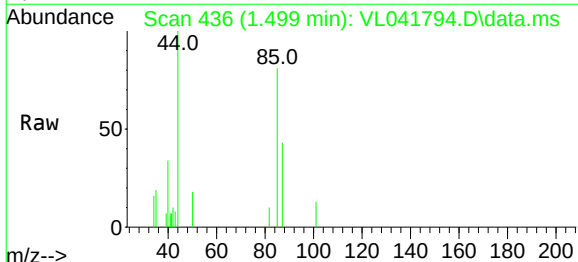
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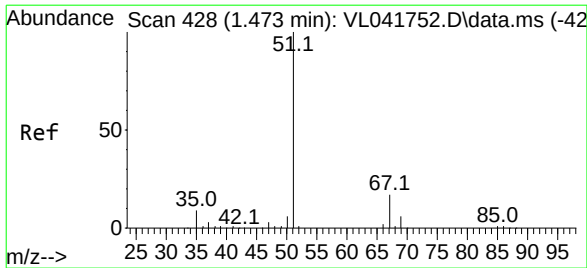
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#2
Dichlorodifluoromethane
Concen: 0.031 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03

Tgt Ion	Ratio	Lower	Upper
85	100		
87	53.2	24.5	36.7





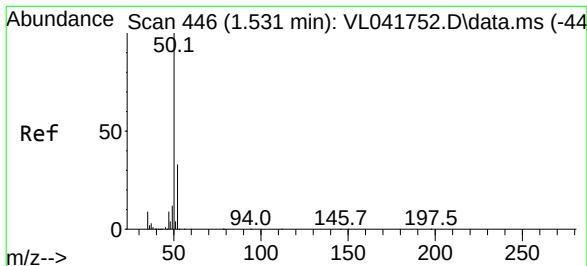
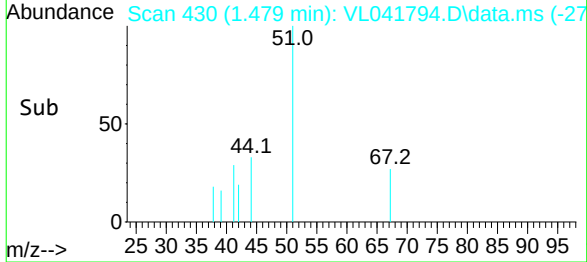
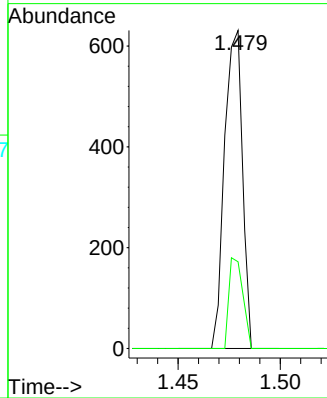
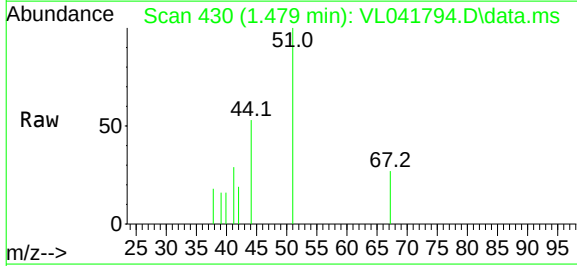
#3
Chlorodifluoromethane
Concen: 0.034 ppbv
RT: 1.479 min Scan# 43
Delta R.T. 0.006 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03

Instrument :
MSVOA_L
ClientSampleId :
MDL 0.03

Tgt Ion	Ratio	Lower	Upper
51	100		
67	22.2	15.0	22.4

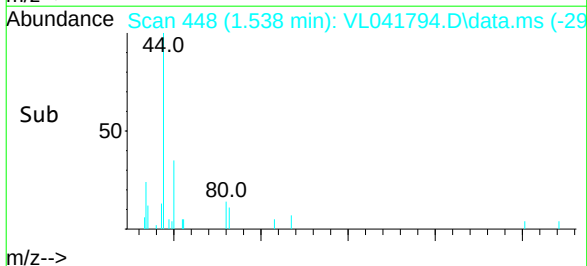
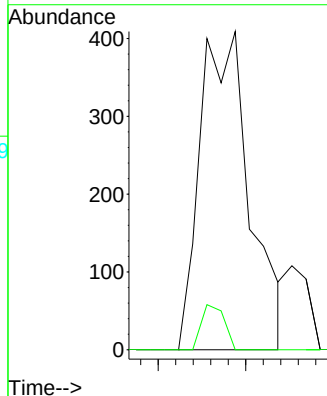
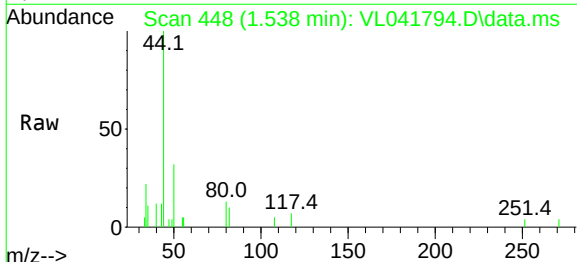
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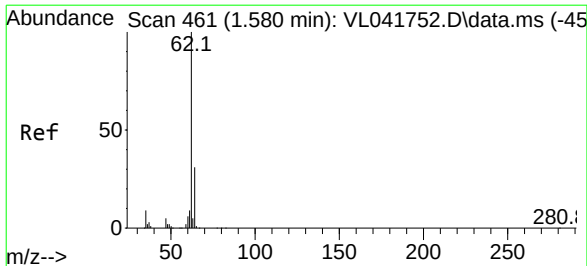
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#4
Chloromethane
Concen: 0.067 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03

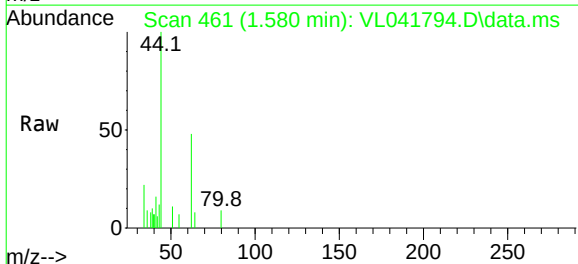
Tgt Ion	Ratio	Lower	Upper
50	100		
52	0.0	26.2	39.2





#5
 Vinyl Chloride
 Concen: 0.052 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL041794.D
 Acq: 18 Dec 2024 15:03

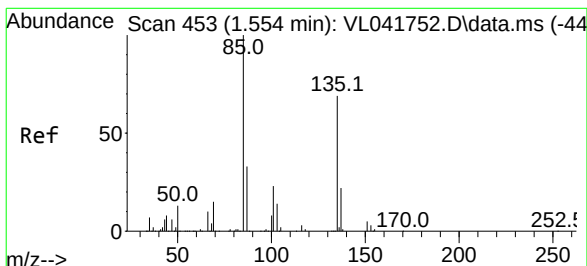
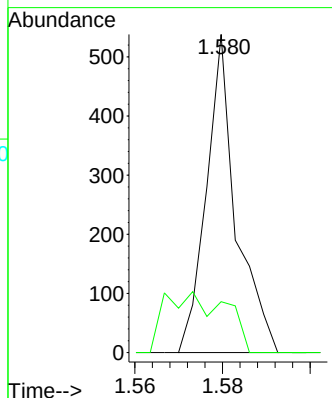
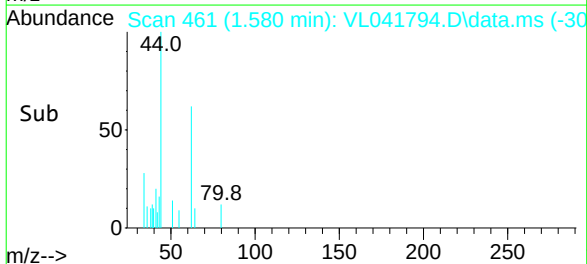
Instrument : MSVOA_L
 ClientSampleId : MDL 0.03



Tgt Ion: 62 Resp: 252
 Ion Ratio Lower Upper
 62 100
 64 16.0 25.1 37.7#

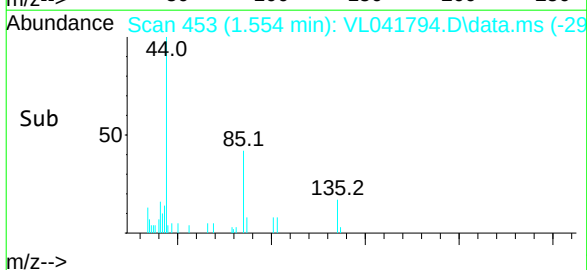
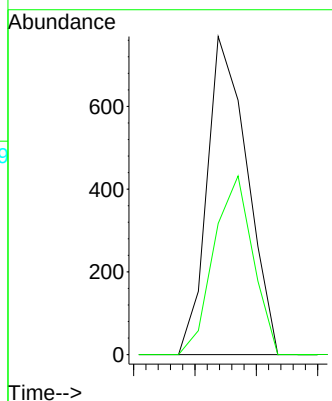
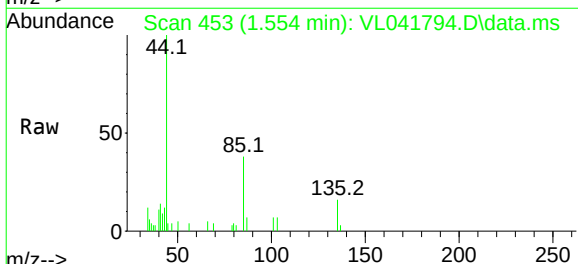
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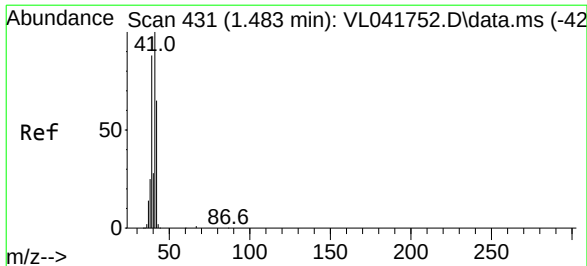
Reviewed By :Semsettin Yesilyurt 12/23/2024
 Supervised By :Mahesh Dadoda 12/23/2024



#8
 Dichlorotetrafluoroethane
 Concen: 0.032 ppbv
 RT: 1.554 min Scan# 453
 Delta R.T. -0.000 min
 Lab File: VL041794.D
 Acq: 18 Dec 2024 15:03

Tgt Ion: 85 Resp: 349
 Ion Ratio Lower Upper
 85 100
 135 54.7 51.9 77.9





#9

Propene

Concen: 0.082 ppbv

RT: 1.486 min Scan# 431

Delta R.T. 0.003 min

Lab File: VL041794.D

Acq: 18 Dec 2024 15:03

Instrument :

MSVOA_L

ClientSampleId :

MDL 0.03

Tgt Ion: 41 Resp: 401

Ion Ratio Lower Upper

41 100

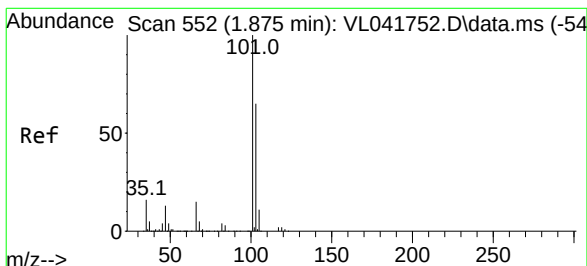
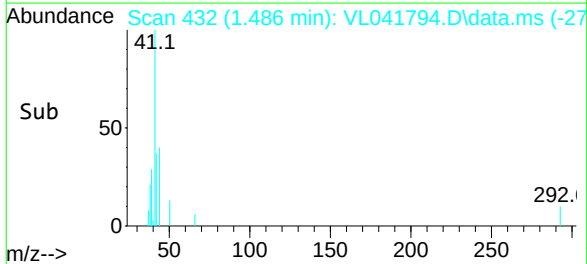
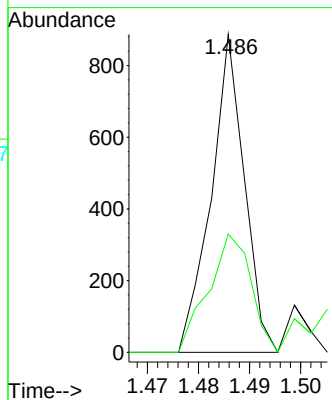
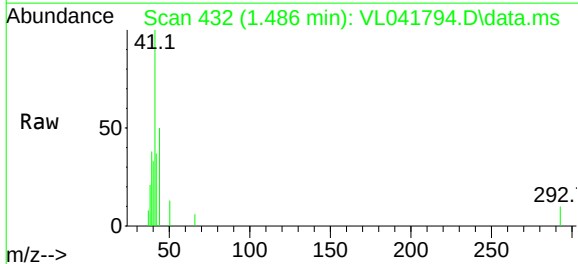
42 60.6 52.4 78.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/23/2024



#11

Trichlorofluoromethane

Concen: 0.041 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.006 min

Lab File: VL041794.D

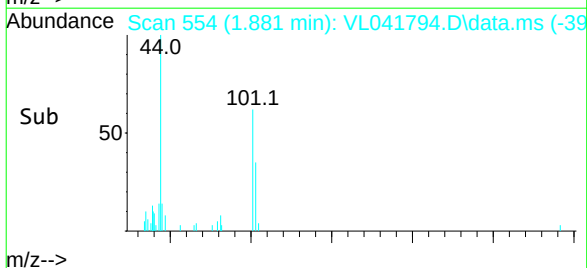
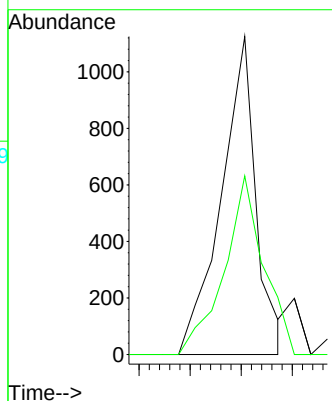
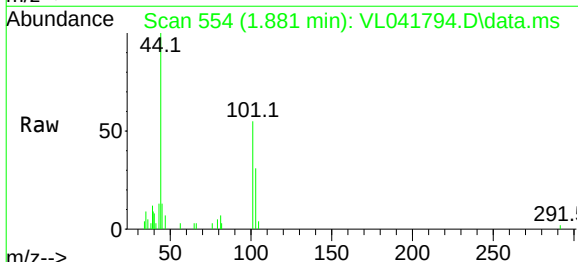
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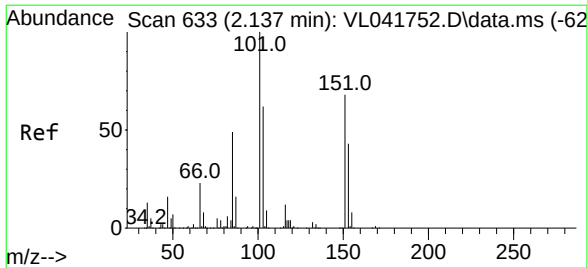
Tgt Ion:101 Resp: 534

Ion Ratio Lower Upper

101 100

103 56.2 51.8 77.8





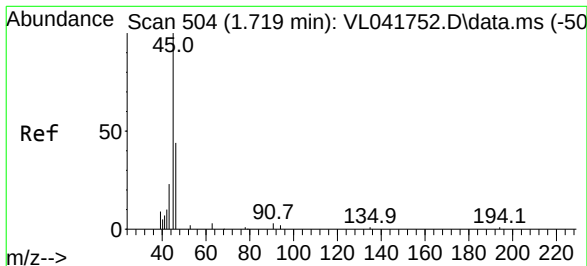
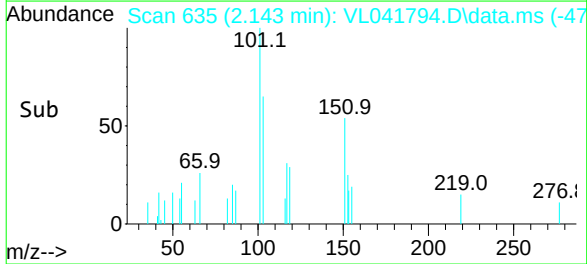
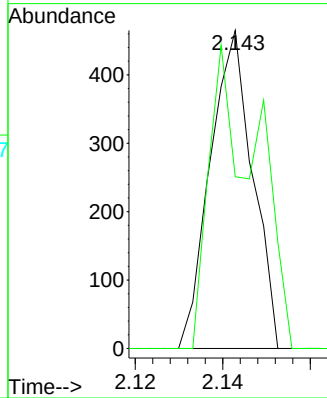
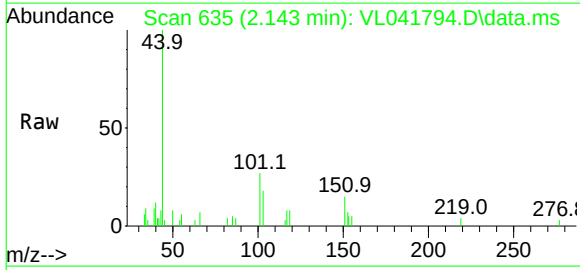
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.031 ppbv
RT: 2.143 min Scan# 633
Delta R.T. 0.006 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03

Instrument :
MSVOA_L
ClientSampleId :
MDL 0.03

Tgt Ion: 101 Resp: 313
Ion Ratio Lower Upper
101 100
151 105.8 56.8 85.2#

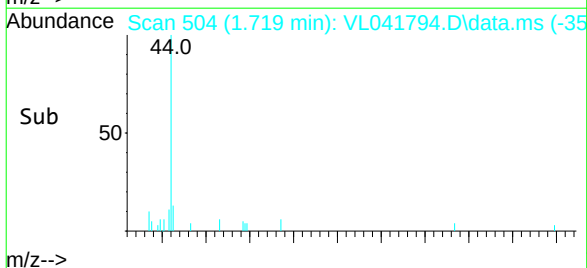
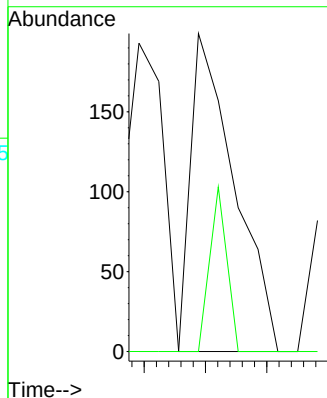
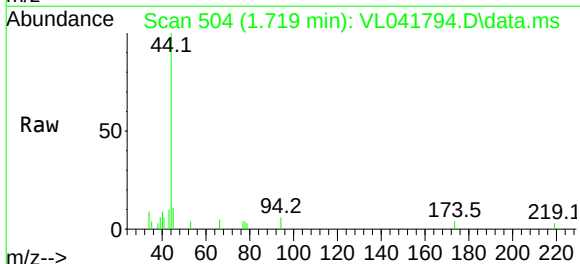
Manual Integrations
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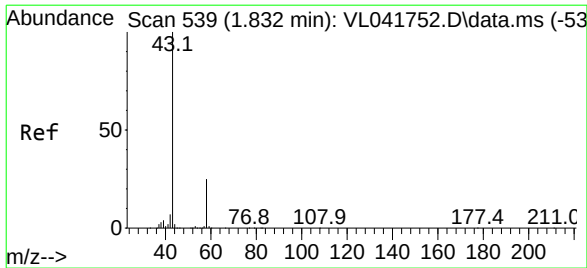
Reviewed By : Semsettin Yesilyurt 12/23/2024
Supervised By : Mahesh Dadoda 12/23/2024



#13
Ethanol
Concen: 0.245 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03

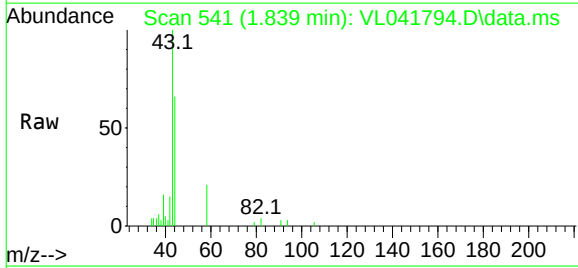
Tgt Ion: 45 Resp: 99
Ion Ratio Lower Upper
45 100
46 0.0 16.4 65.8#





#15
Acetone
Concen: 0.125 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03

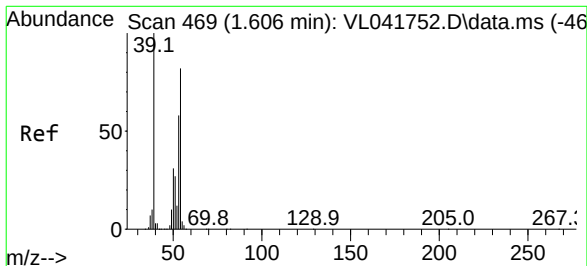
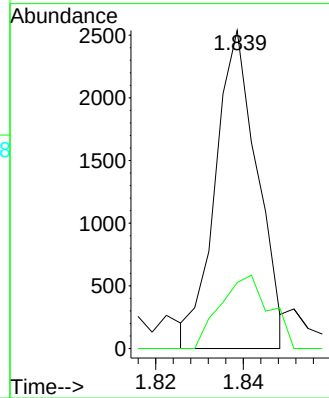
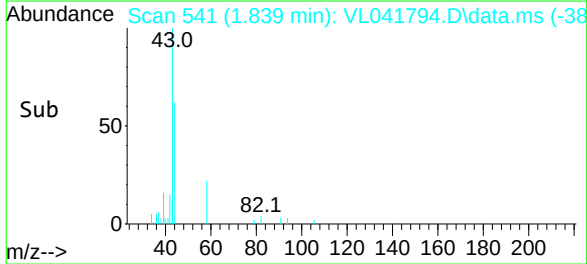
Instrument :
MSVOA_L
ClientSampleId :
MDL 0.03



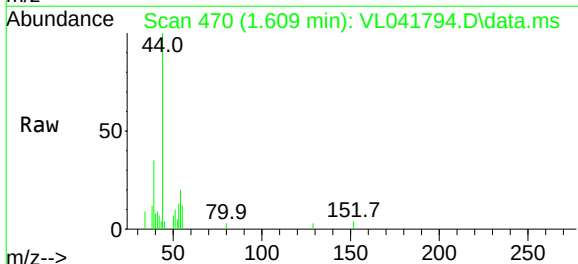
Tgt Ion: 43 Resp: 1684
Ion Ratio Lower Upper
43 100
58 27.0 19.7 29.5

Manual Integrations
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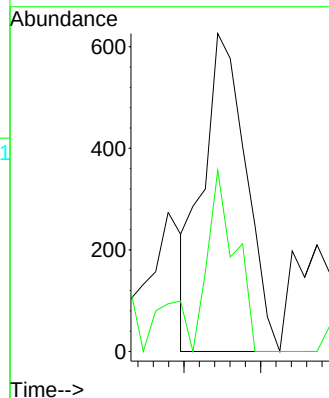
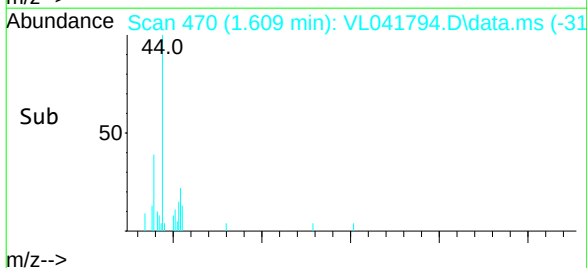
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024

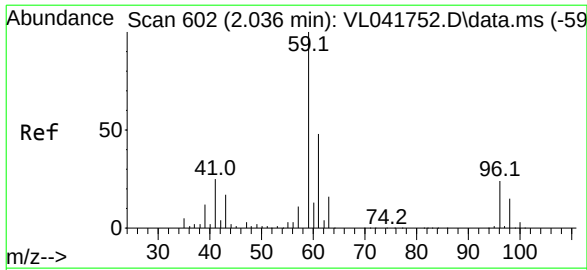


#16
1,3-Butadiene
Concen: 0.093 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03



Tgt Ion: 39 Resp: 491
Ion Ratio Lower Upper
39 100
54 36.0 58.4 87.6#





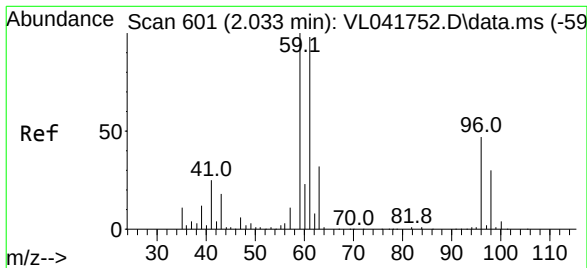
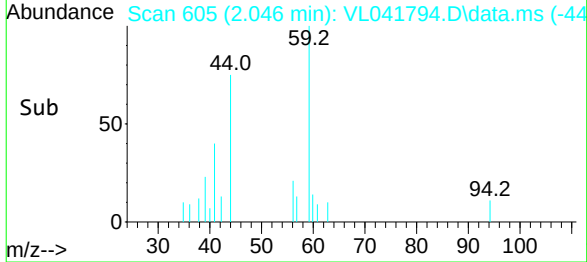
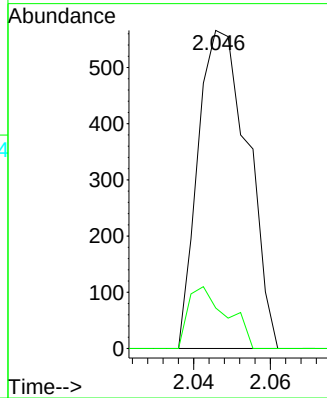
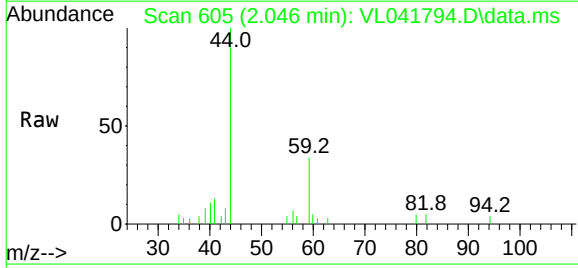
#17
tert-Butyl alcohol
Concen: 0.038 ppbv
RT: 2.046 min Scan# 602
Delta R.T. 0.009 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03

Instrument :
MSVOA_L
ClientSampleId :
MDL 0.03

Tgt Ion: 59 Resp: 509
Ion Ratio Lower Upper
59 100
57 15.1 8.6 13.0#

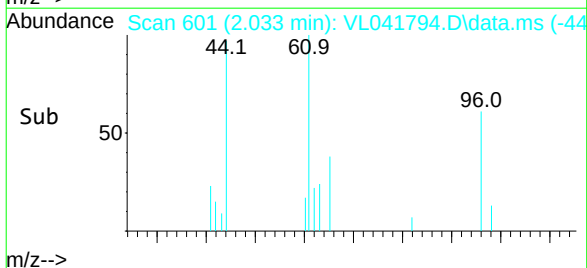
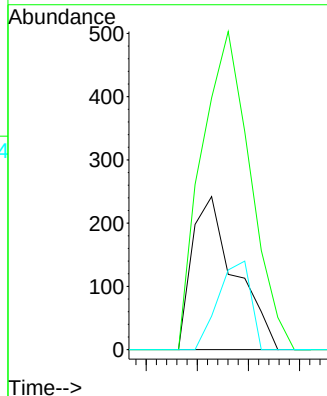
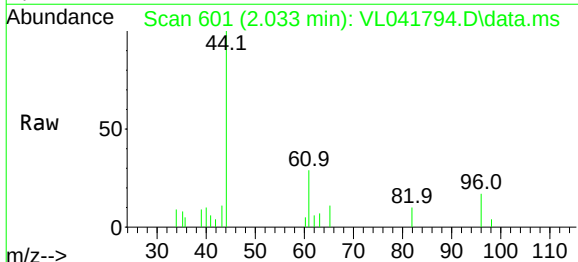
Manual Integrations
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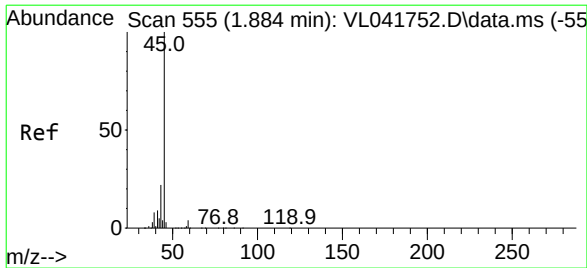
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#18
1,1-Dichloroethene
Concen: 0.034 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03

Tgt Ion: 96 Resp: 142
Ion Ratio Lower Upper
96 100
61 164.5 167.7 251.5#
98 21.9 51.1 76.7#





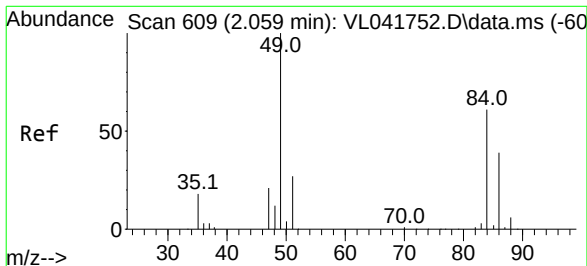
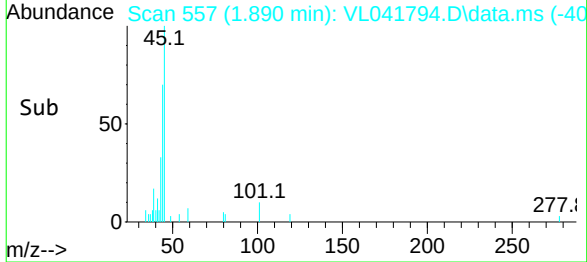
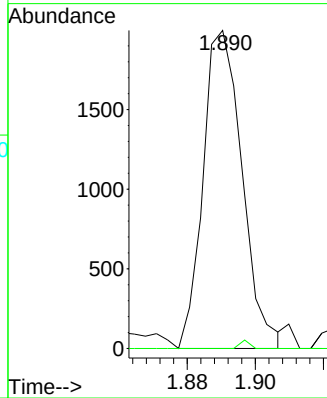
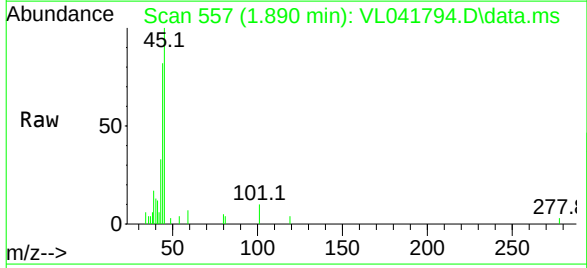
#19
Isopropyl Alcohol
Concen: 0.196 ppbv
RT: 1.890 min Scan# 555
Delta R.T. 0.006 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03

Instrument :
MSVOA_L
ClientSampleId :
MDL 0.03

Tgt Ion: 45 Resp: 1586
Ion Ratio Lower Upper
45 100
58 0.0 33.3 49.9#

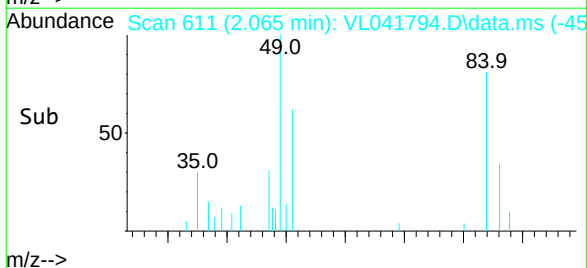
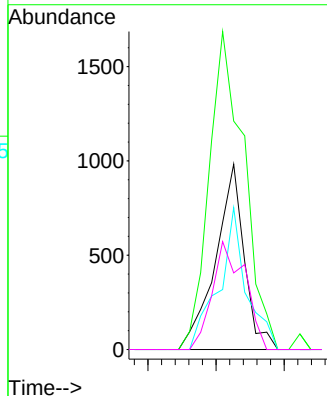
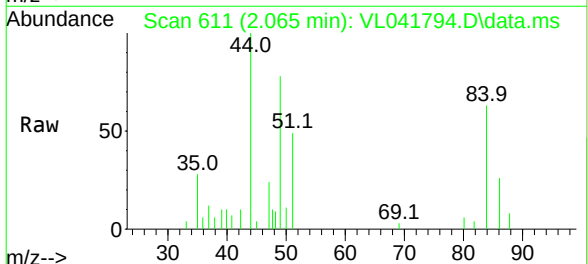
Manual Integrations
APPROVED

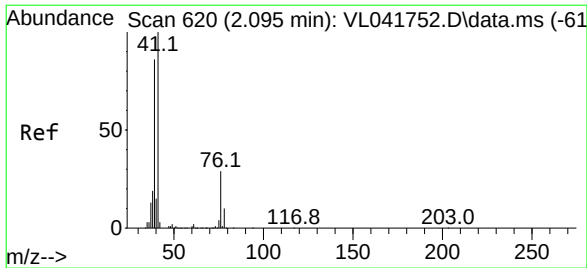
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#20
Methylene Chloride
Concen: 0.150 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03

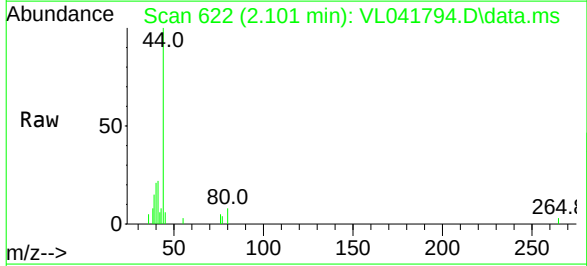
Tgt Ion: 84 Resp: 575
Ion Ratio Lower Upper
84 100
49 123.2 132.6 198.8#
51 76.5 37.6 56.4#
86 41.3 51.4 77.0#





#21
 Allyl Chloride
 Concen: 0.037 ppbv
 RT: 2.101 min Scan# 621
 Delta R.T. 0.006 min
 Lab File: VL041794.D
 Acq: 18 Dec 2024 15:03

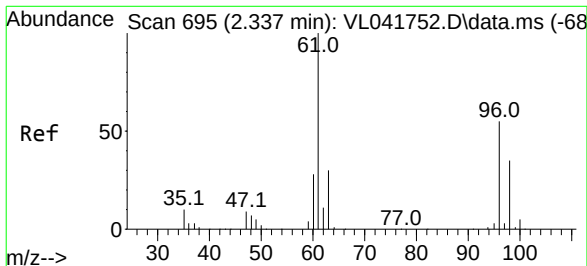
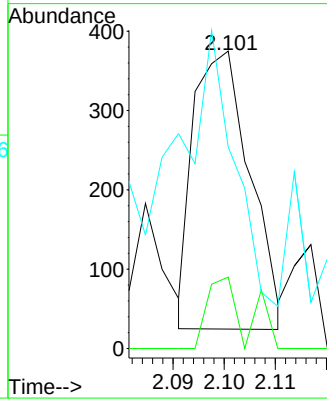
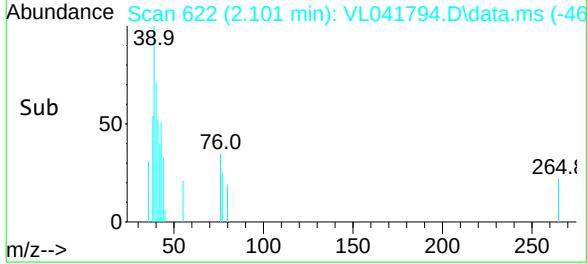
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL 0.03



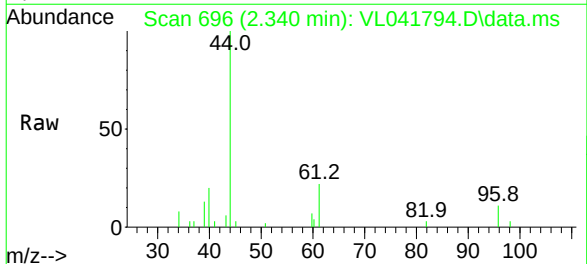
Tgt Ion:	41	Resp:	269
Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.3	33.5#
39	132.0	69.2	103.8#

Manual Integrations
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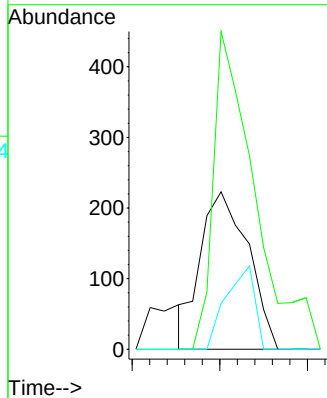
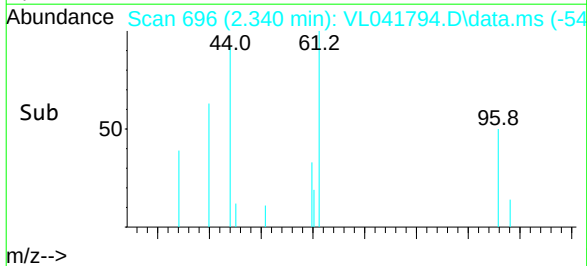
Reviewed By :Semsettin Yesilyurt 12/23/2024
 Supervised By :Mahesh Dadoda 12/23/2024

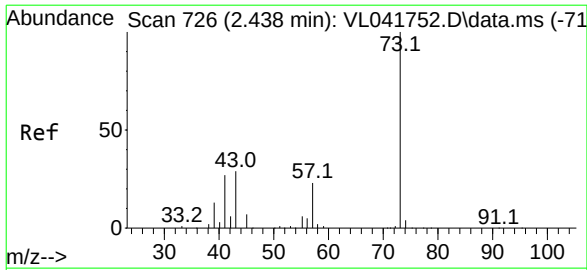


#22
 trans-1,2-Dichloroethene
 Concen: 0.035 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.003 min
 Lab File: VL041794.D
 Acq: 18 Dec 2024 15:03



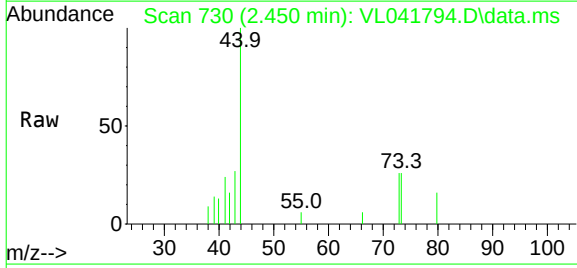
Tgt Ion:	96	Resp:	167
Ion	Ratio	Lower	Upper
96	100		
61	201.8	146.3	219.5
98	29.1	50.8	76.2#





#28
Methyl tert-Butyl Ether
Concen: 0.045 ppbv
RT: 2.450 min Scan# 73
Delta R.T. 0.013 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03

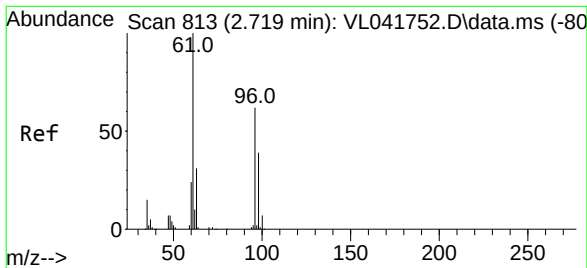
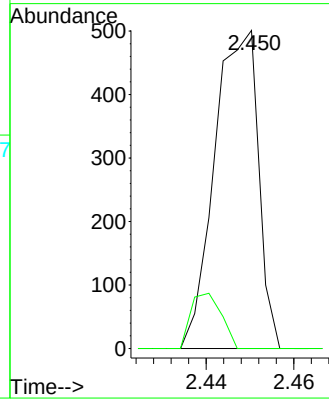
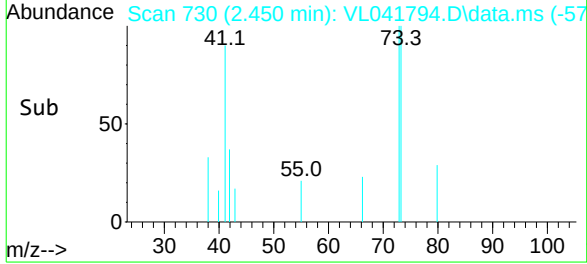
Instrument :
MSVOA_L
ClientSampleId :
MDL 0.03



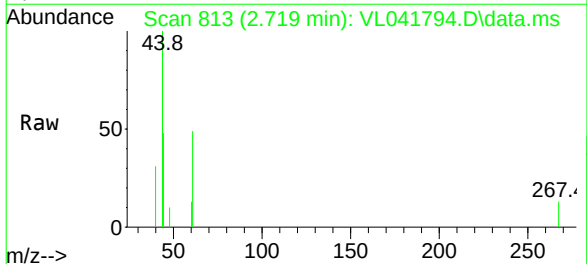
Tgt Ion: 73 Resp: 347
Ion Ratio Lower Upper
73 100
57 12.1 17.6 26.4#

Manual Integrations
APPROVED

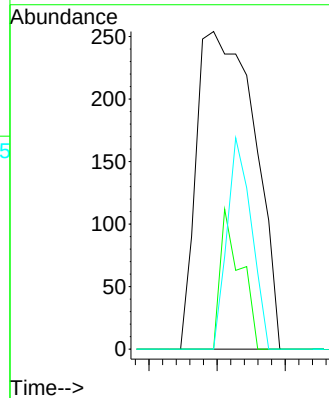
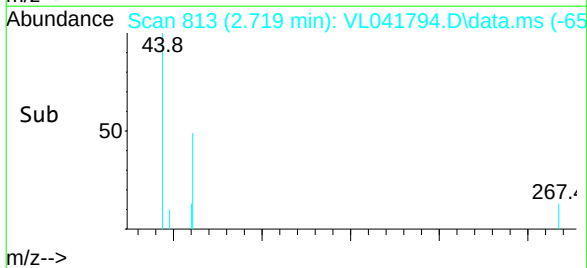
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024

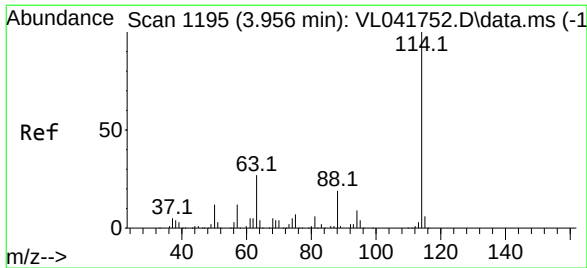


#31
cis-1,2-Dichloroethene
Concen: 0.031 ppbv
RT: 2.719 min Scan# 813
Delta R.T. -0.000 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03



Tgt Ion: 61 Resp: 300
Ion Ratio Lower Upper
61 100
96 0.0 49.7 74.5#
98 0.0 30.8 46.2#





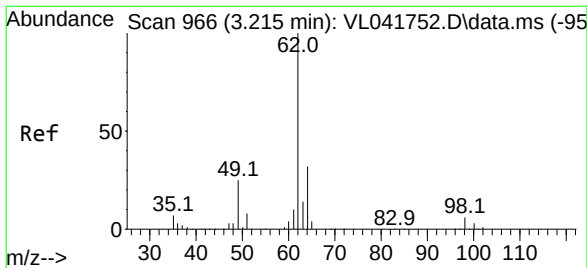
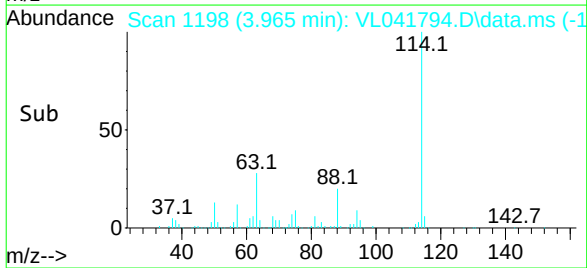
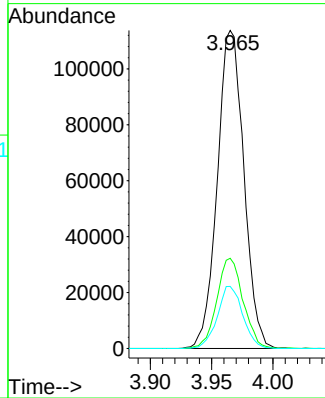
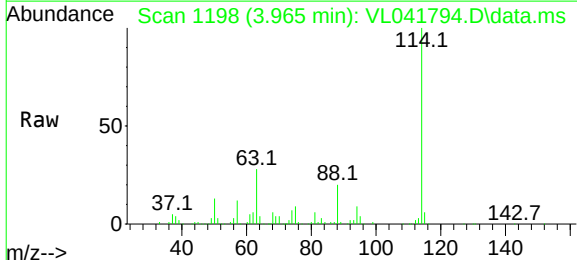
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 11
Delta R.T. 0.009 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03

Instrument :
MSVOA_L
ClientSampleId :
MDL 0.03

Tgt Ion:	114	Resp:	171284
Ion	Ratio	Lower	Upper
114	100		
63	28.2	21.8	32.8
88	18.7	14.8	22.2

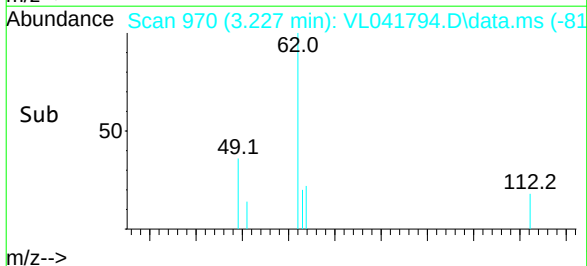
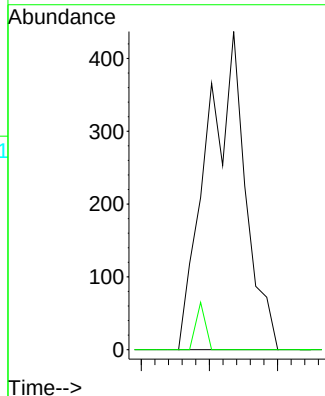
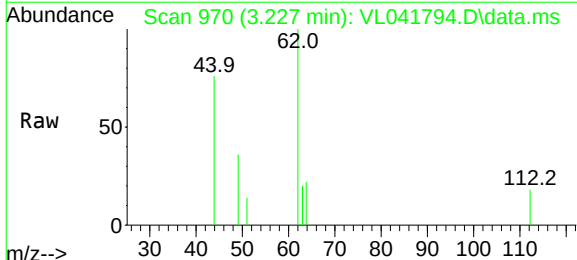
Manual Integrations
APPROVED

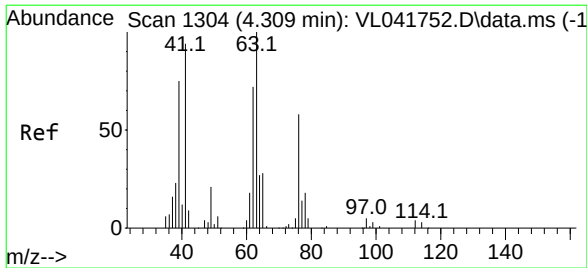
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#37
1,2-Dichloroethane
Concen: 0.031 ppbv
RT: 3.227 min Scan# 970
Delta R.T. 0.013 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03

Tgt Ion:	62	Resp:	343
Ion	Ratio	Lower	Upper
62	100		
98	3.8	4.7	7.1#





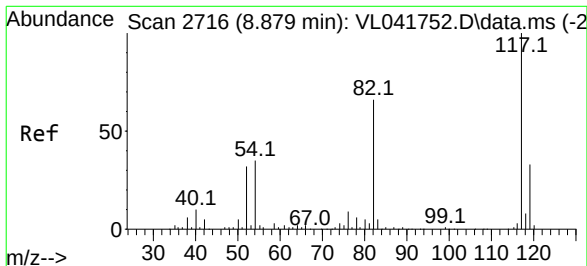
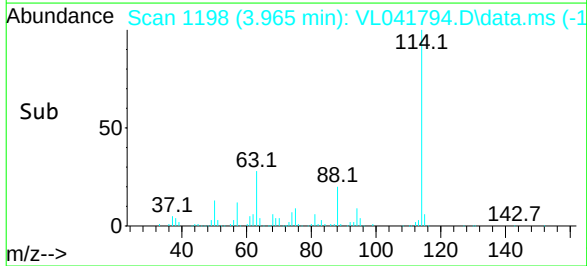
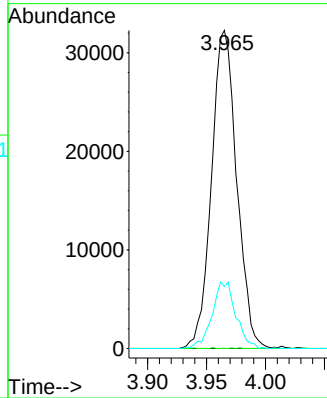
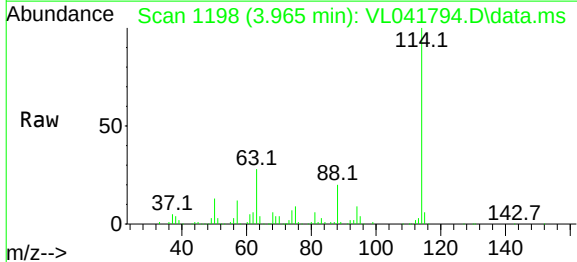
#39
1,2-Dichloropropane
Concen: 7.509 ppbv
RT: 3.965 min Scan# 1116
Delta R.T. -0.343 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03

Instrument : MSVOA_L
ClientSampleId : MDL 0.03

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	75.3	112.9
62	19.5	57.3	85.9

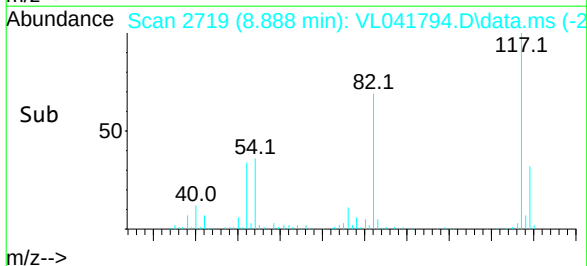
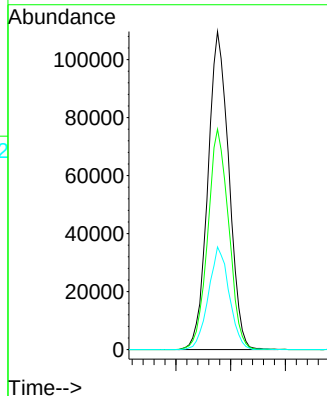
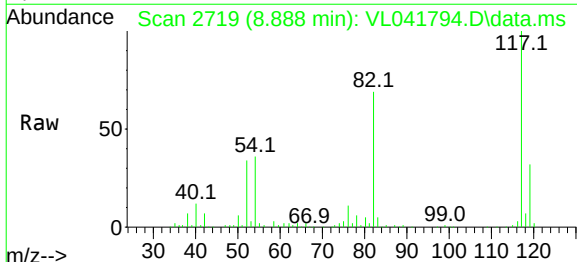
Manual Integrations
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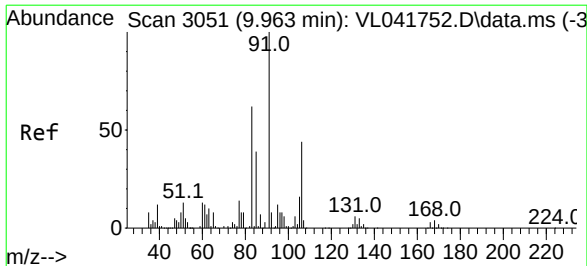
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.009 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03

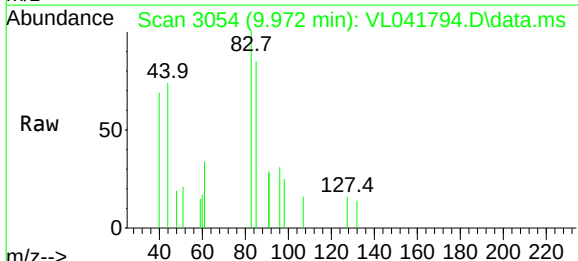
Tgt Ion	Ratio	Lower	Upper
117	100		
82	69.1	53.8	80.8
119	32.0	26.7	40.1





#63
1,1,2,2-Tetrachloroethane
Concen: 0.030 ppbv
RT: 9.972 min Scan# 3051
Delta R.T. 0.009 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03

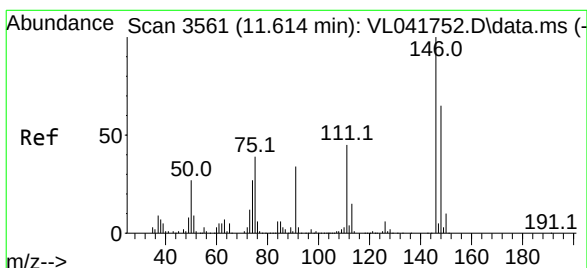
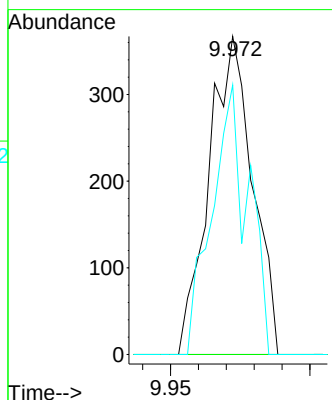
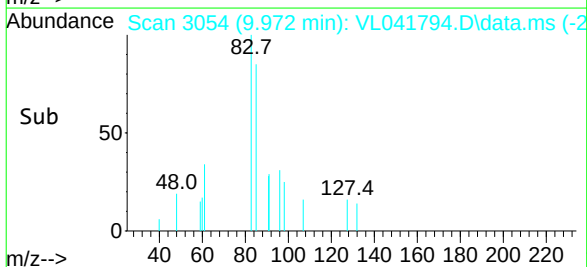
Instrument :
MSVOA_L
ClientSampleId :
MDL 0.03



Tgt Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.9	14.7#
85	70.8	32.0	96.2

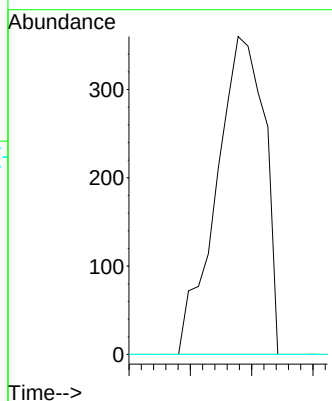
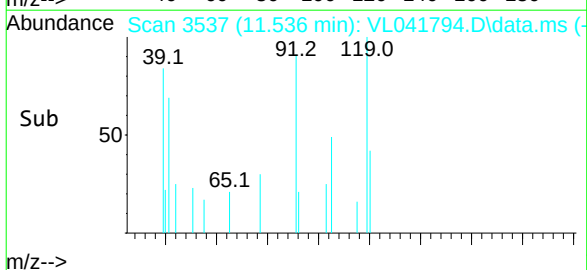
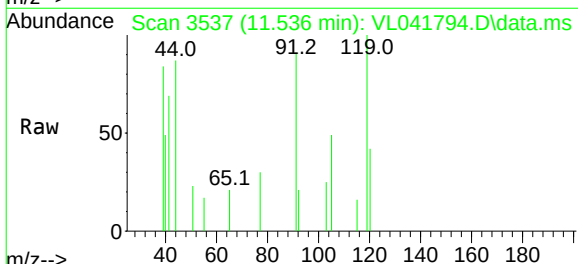
Manual Integrations
APPROVED

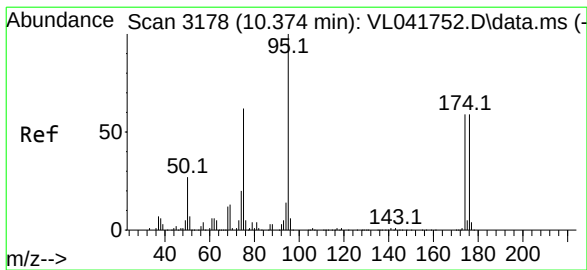
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#66
Benzyl Chloride
Concen: 0.155 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.078 min
Lab File: VL041794.D
Acq: 18 Dec 2024 15:03

Tgt Ion	Ratio	Lower	Upper
91	100		
126	0.0	13.9	20.9#
128	0.0	4.4	6.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.107 ppbv

RT: 10.383 min Scan# 31

Delta R.T. 0.009 min

Lab File: VL041794.D

Acq: 18 Dec 2024 15:03

Instrument :

MSVOA_L

ClientSampleId :

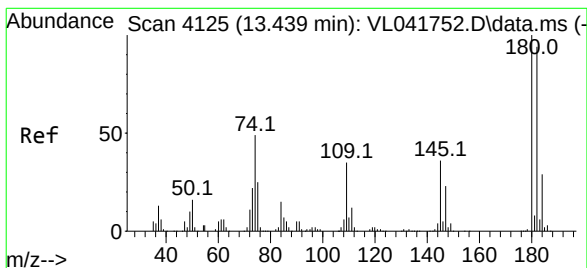
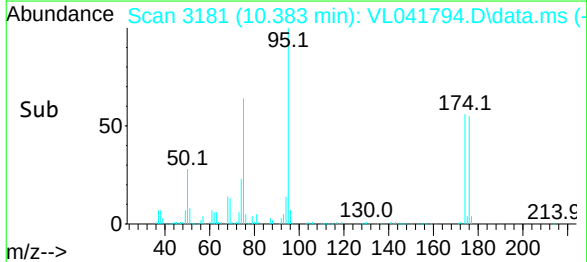
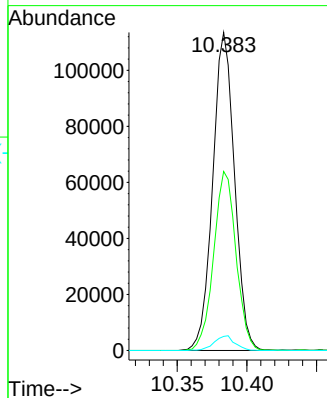
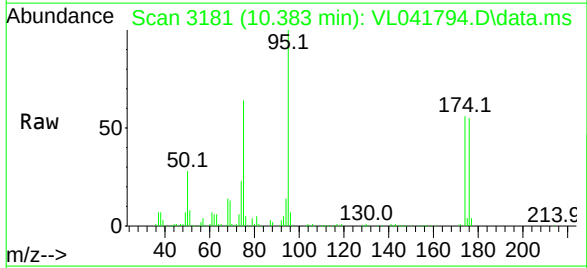
MDL 0.03

Tgt Ion:	95	Resp:	123367
Ion	Ratio	Lower	Upper
95	100		
174	57.9	47.6	71.4
175	4.4	3.7	5.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#81

1,2,4-Trichlorobenzene

Concen: 0.036 ppbv

RT: 13.448 min Scan# 4128

Delta R.T. 0.009 min

Lab File: VL041794.D

Acq: 18 Dec 2024 15:03

Tgt Ion:	180	Resp:	305
Ion	Ratio	Lower	Upper
180	100		
182	55.1	77.0	115.6#
184	10.5	23.8	35.8#

