

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120720\
 Data File : VL036075.D
 Acq On : 7 Dec 2020 21:48
 Operator : SY/AP
 Sample : L4949-02DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3DUP

Manual Integrations
 APPROVED

MMDadoda
 12/10/2020 9:53:51 AM

Quant Time: Dec 08 21:16:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 0
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	996323	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	2557196	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.12	117	2294634	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1992916	10.94	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	40460m	0.348	ppbv	
3) Chlorodifluoromethane	3.00	51	54986	0.484	ppbv	97
4) Chloromethane	3.15	50	34688	0.622	ppbv #	81
9) Propene	3.03	41	1140616m	20.030	ppbv	
10) Heptane	8.14	43	940826	6.469	ppbv	99
11) Trichlorofluoromethane	3.96	101	50239	0.368	ppbv	99
13) Ethanol	3.65	45	1077671	137.280	ppbv	83
15) Acetone	3.87	43	17381555	145.157	ppbv #	86
19) Isopropyl Alcohol	4.02	45	8307906	113.516	ppbv #	100
20) Methylene Chloride	4.37	84	440523m	8.978	ppbv	
25) Ethyl Acetate	5.70	43	14152704	59.162	ppbv #	79
30) Cyclohexane	7.15	84	208793	2.640	ppbv	96
34) 2-Butanone	5.28	43	6495383	38.293	ppbv	98
35) Carbon Tetrachloride	7.05	117	12304m	0.083	ppbv	
36) Benzene	6.92	78	555735	2.564	ppbv	96
38) Trichloroethene	7.87	130	11883m	0.147	ppbv	
41) Tetrahydrofuran	6.07	42	2075912	20.600	ppbv	99
44) 2,2,4-Trimethylpentane	7.90	57	2330727	5.939	ppbv #	89
50) 4-Methyl-2-Pentanone	8.78	43	1393788	5.510	ppbv	99
52) Tetrachloroethene	11.26	164	52785m	0.673	ppbv	
53) Toluene	9.86	91	27109793	111.402	ppbv #	70
58) Ethyl Benzene	12.75	91	3719809	11.829	ppbv	99
59) m/p-Xylene	13.00	91	9044926	34.150	ppbv	92
60) o-Xylene	13.73	91	3154214	12.640	ppbv	99
61) Styrene	13.56	104	1216591	7.594	ppbv	99
62) Isopropylbenzene	14.70	105	221306	0.598	ppbv	100
64) n-propylbenzene	15.59	120	164511	1.849	ppbv	90
70) n-Butylbenzene	18.58	91	72935m	0.219	ppbv	
72) 4-Ethyltoluene	15.87	105	812356	3.005	ppbv	96
73) 1,3,5-Trimethylbenzene	16.03	105	486094	1.883	ppbv	94
74) 1,2,4-Trimethylbenzene	16.79	105	1197495	4.621	ppbv #	66

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

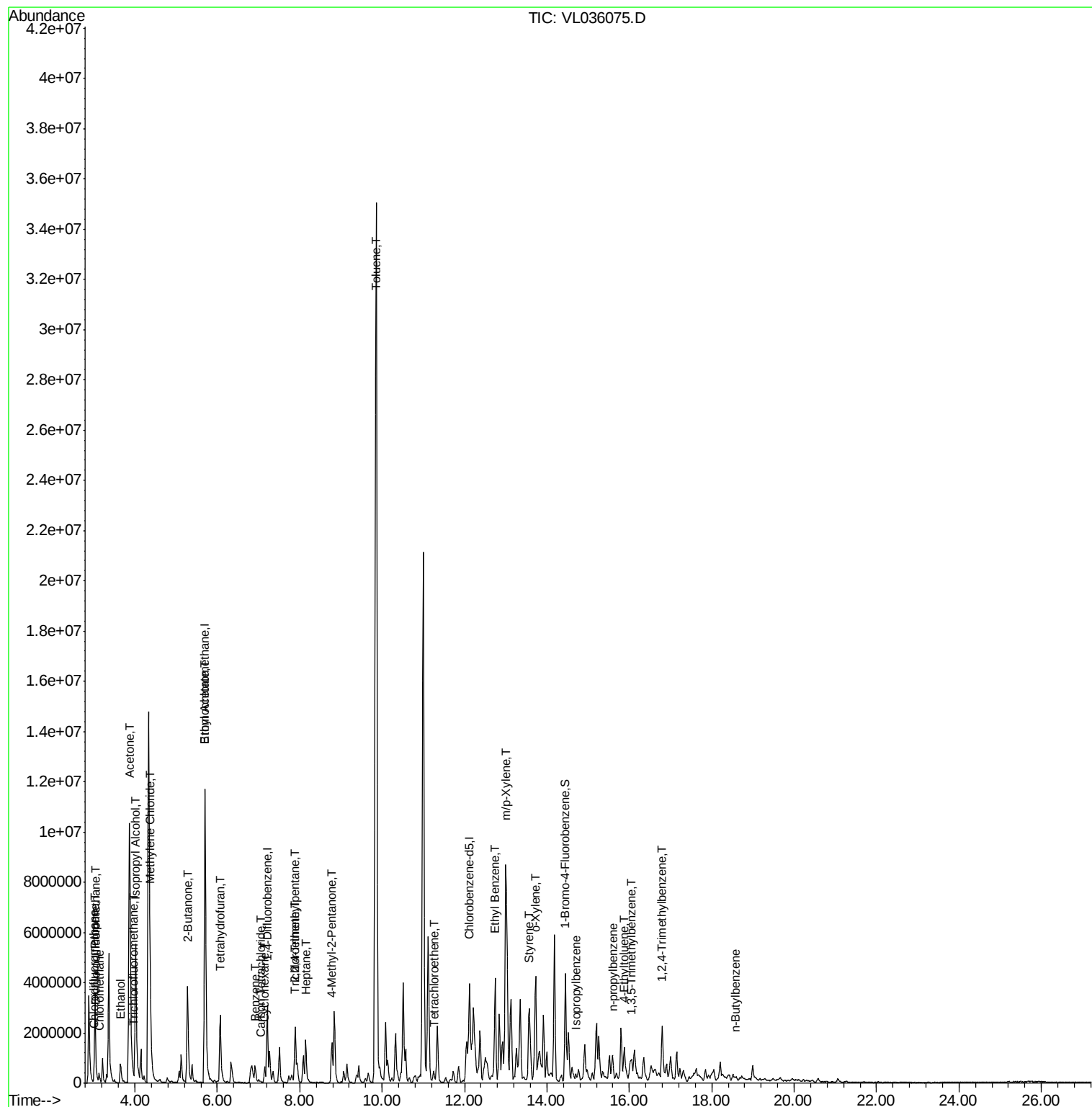
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120720\
Data File : VL036075.D
Acq On : 7 Dec 2020 21:48
Operator : SY/AP
Sample : L4949-02DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

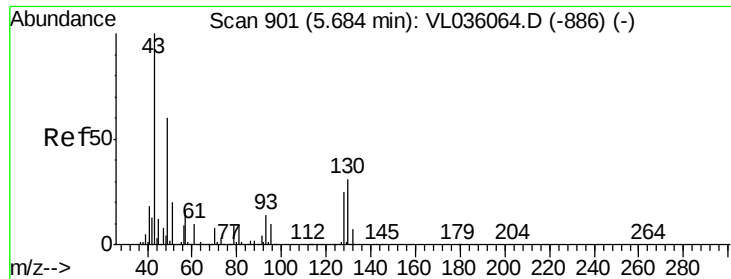
Instrument :
MSVOA_L
ClientSampleId :
IA-3DUP

Manual Integrations
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12/10/2020 9:53:51 AM

Quant Time: Dec 08 21:16:29 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.02 min

Lab File: VL036075.D

Acq: 7 Dec 2020 21:48

Instrument :

MSVOA_L

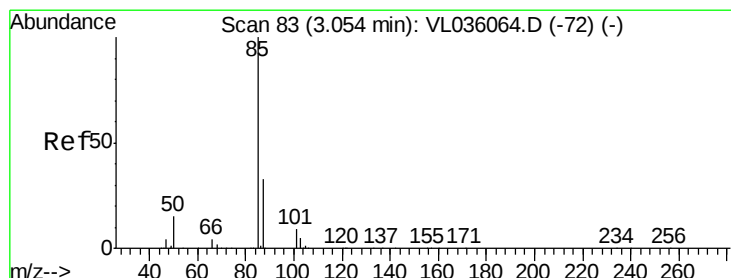
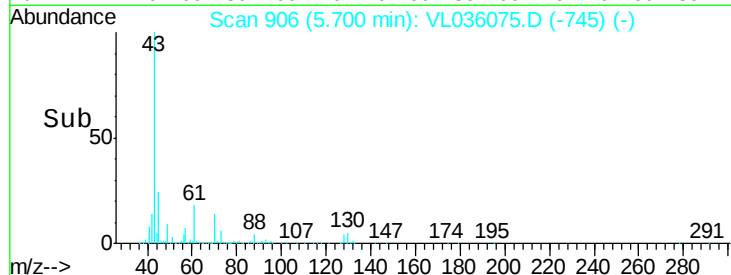
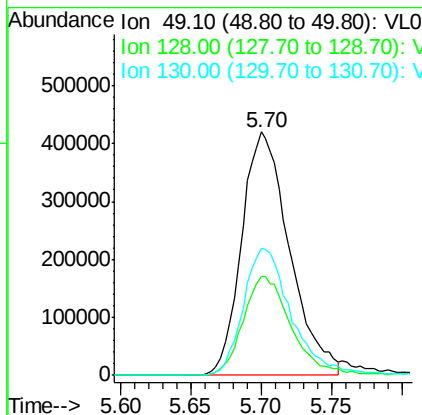
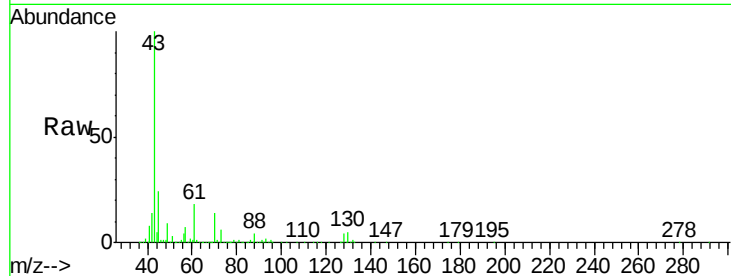
ClientSampleId :

IA-3DUP

Tot Ion	Ratio	Lower	Upper
49	100		
128	41.5	21.1	63.1
130	53.4	27.1	81.3

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#2

Dichlorodifluoromethane

Concen: 0.348 ppbv m

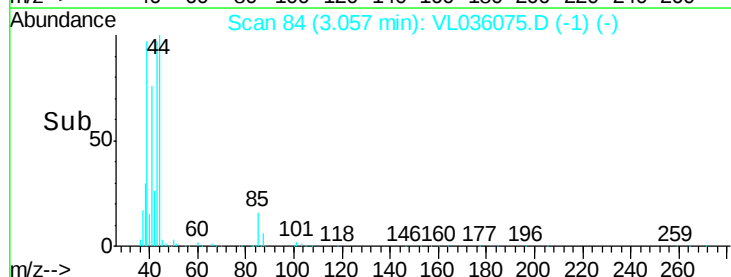
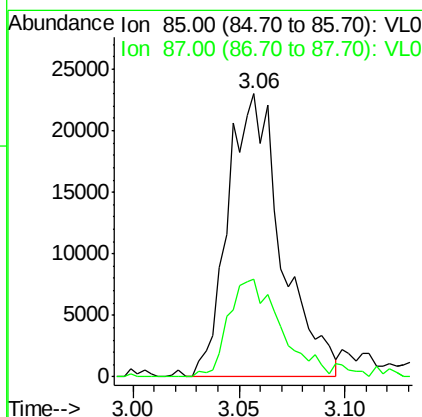
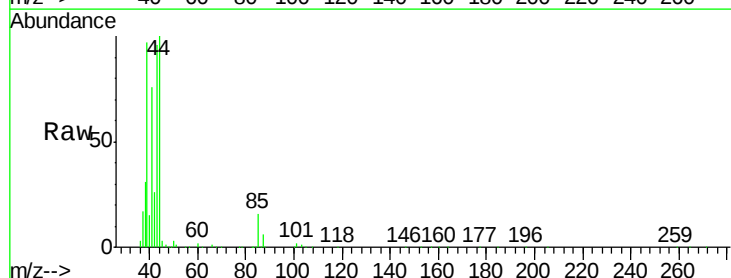
RT: 3.06 min Scan# 84

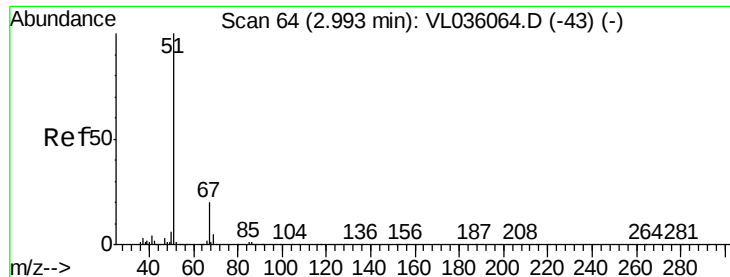
Delta R.T. 0.00 min

Lab File: VL036075.D

Acq: 7 Dec 2020 21:48

Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.7	26.5	39.7





#3

Chlorodifluoromethane

Concen: 0.484 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.00 min

Lab File: VL036075.D

Acq: 7 Dec 2020 21:48

Instrument :

MSVOA_L

ClientSampleId :

IA-3DUP

Tot Ion: 51 Resp: 54986

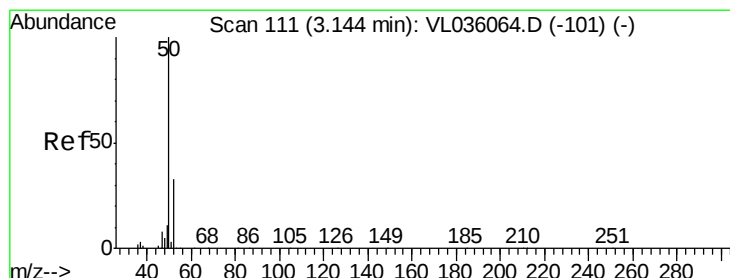
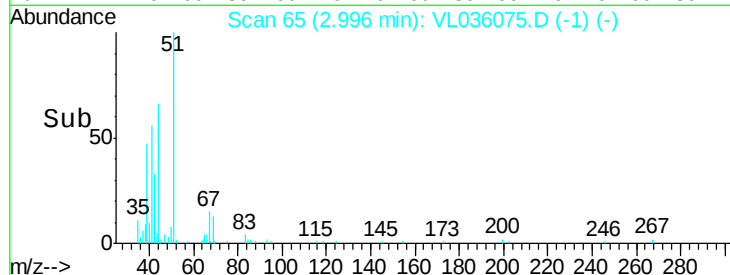
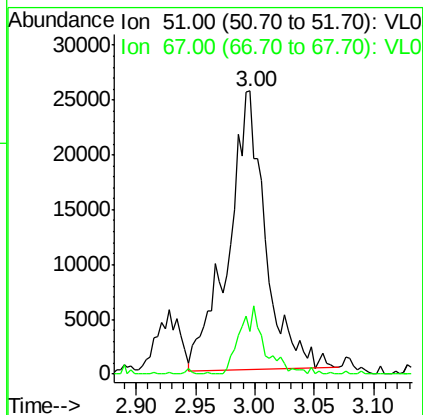
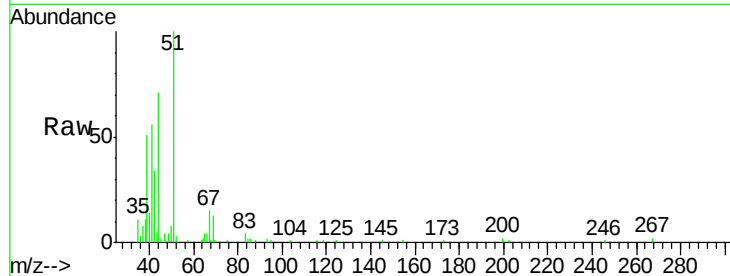
Ion Ratio Lower Upper

51 100

67 16.5 14.3 21.5

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#4

Chloromethane

Concen: 0.622 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL036075.D

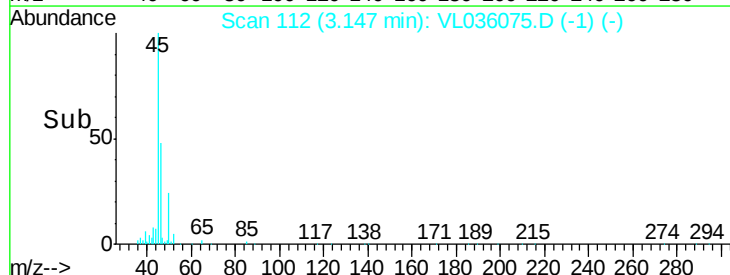
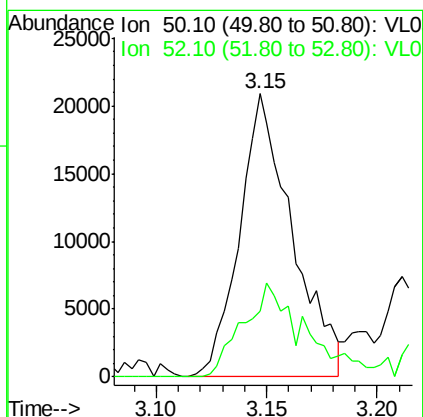
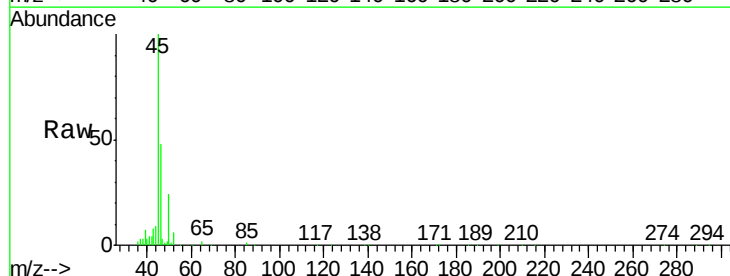
Acq: 7 Dec 2020 21:48

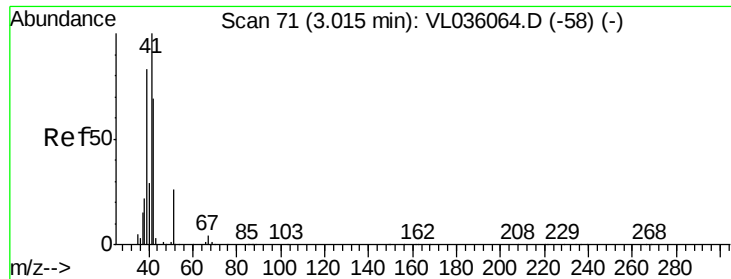
Tgt Ion: 50 Resp: 34688

Ion Ratio Lower Upper

50 100

52 21.8 26.1 39.1#





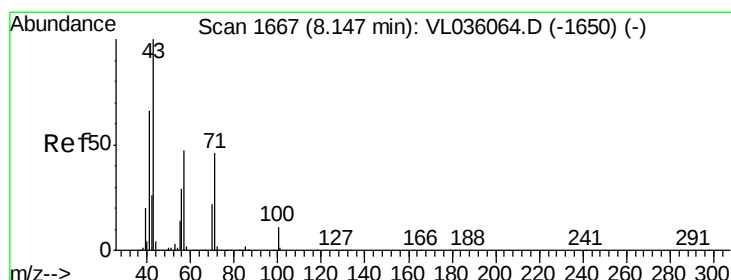
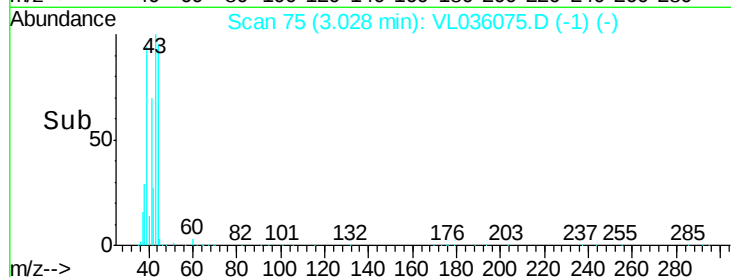
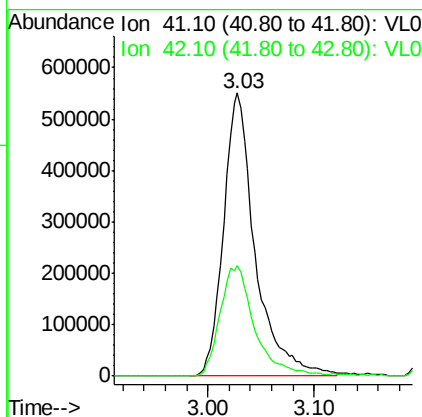
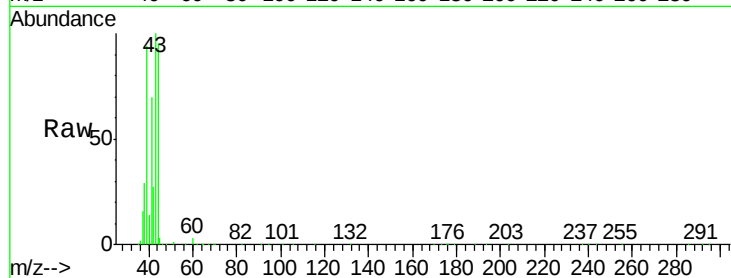
#9
 Propene
 Concen: 20.030 ppbv m
 RT: 3.03 min Scan# 75
 Delta R.T. 0.01 min
 Lab File: VL036075.D
 Acq: 7 Dec 2020 21:48

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3DUP

Tot Ion: 41 Resp: 1140616
 Ion Ratio Lower Upper
 41 100
 42 19.7 57.0 85.6#

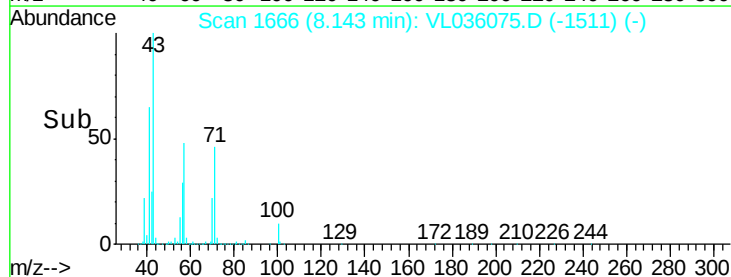
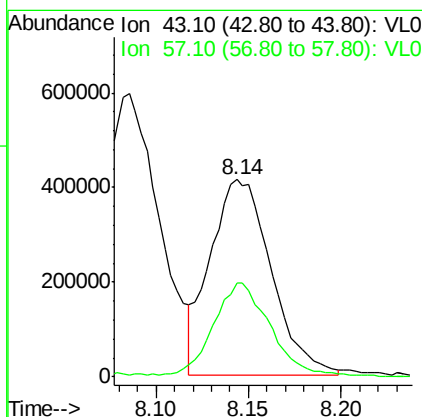
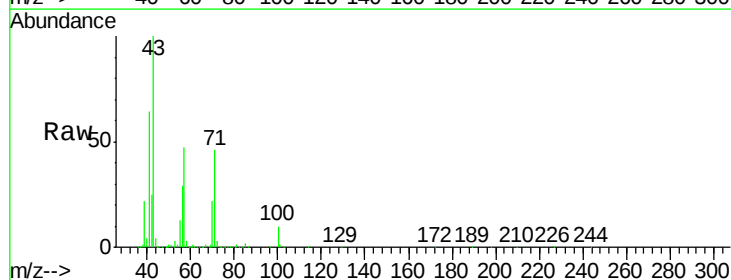
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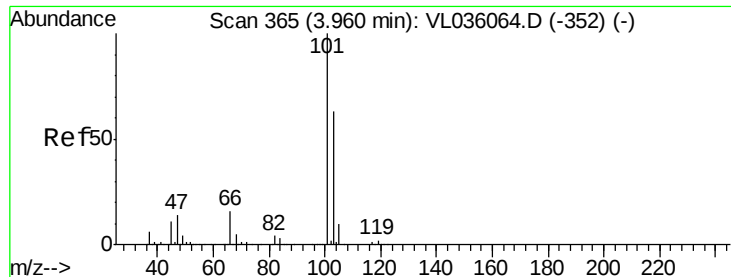
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#10
 Heptane
 Concen: 6.469 ppbv
 RT: 8.14 min Scan# 1666
 Delta R.T. -0.00 min
 Lab File: VL036075.D
 Acq: 7 Dec 2020 21:48

Tgt Ion: 43 Resp: 940826
 Ion Ratio Lower Upper
 43 100
 57 46.9 37.9 56.9





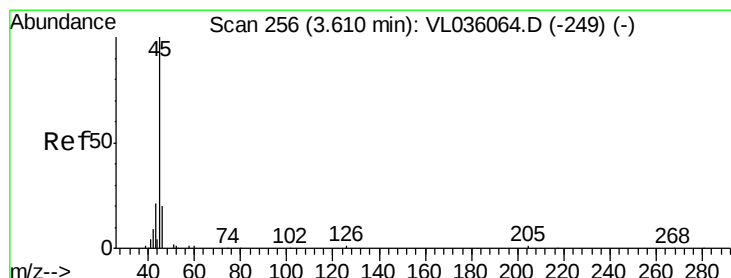
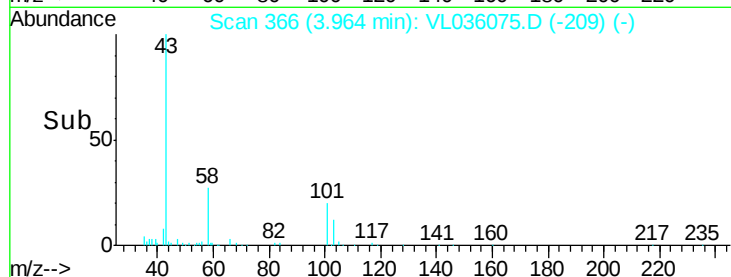
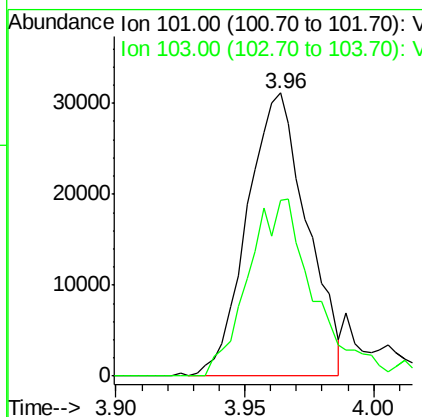
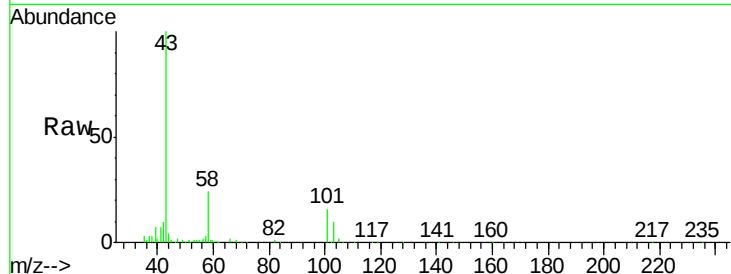
#11
Trichlorofluoromethane
Concen: 0.368 ppbv
RT: 3.96 min Scan# 366
Delta R.T. 0.00 min
Lab File: VL036075.D
Acq: 7 Dec 2020 21:48

Instrument :
MSVOA_L
ClientSampleId :
IA-3DUP

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	101	100	50239		
103	103	62.0		50.3	75.5

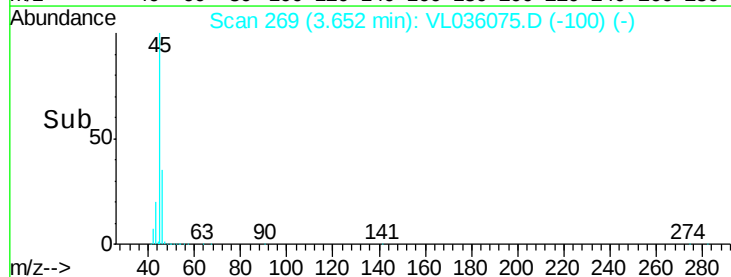
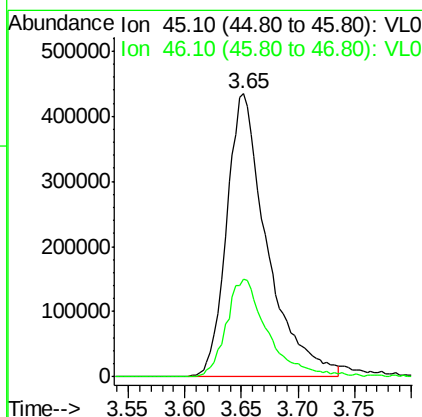
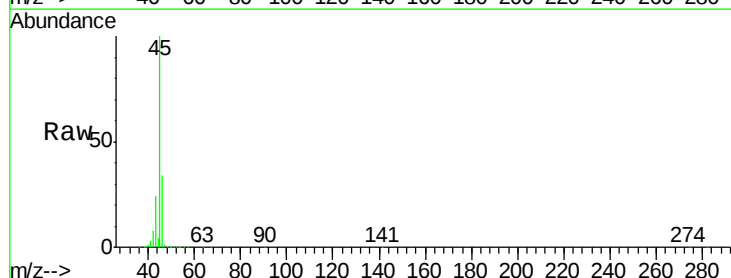
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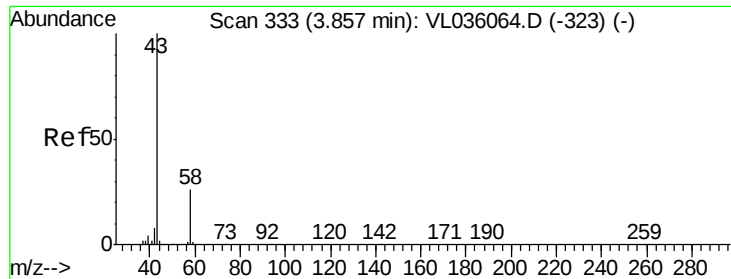
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#13
Ethanol
Concen: 137.280 ppbv
RT: 3.65 min Scan# 269
Delta R.T. 0.04 min
Lab File: VL036075.D
Acq: 7 Dec 2020 21:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	45	100	1077671		
46	46	35.9		19.0	75.8





#15

Acetone

Concen: 145.157 ppbv

RT: 3.87 min Scan# 336

Delta R.T. 0.01 min

Lab File: VL036075.D

Acq: 7 Dec 2020 21:48

Instrument :

MSVOA_L

ClientSampleId :

IA-3DUP

Tot Ion: 43 Resp:17381555

Ion Ratio Lower Upper

43 100

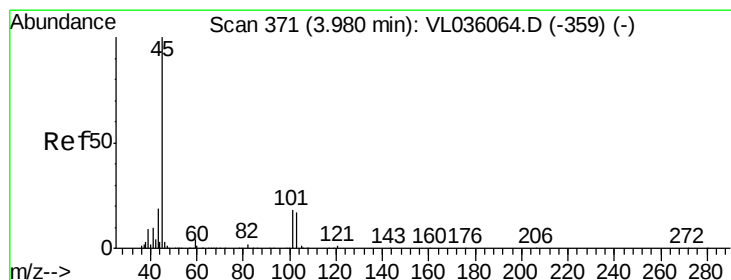
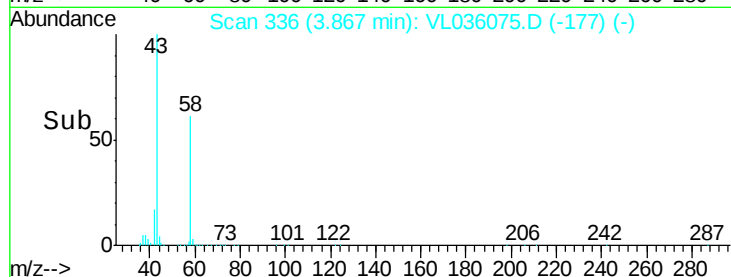
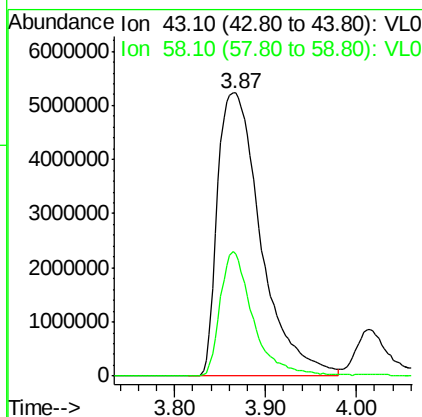
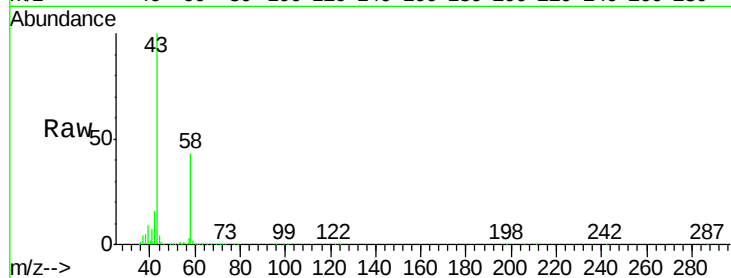
58 33.3 20.9 31.3#

Manual Integrations

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#19

Isopropyl Alcohol

Concen: 113.516 ppbv

RT: 4.02 min Scan# 382

Delta R.T. 0.04 min

Lab File: VL036075.D

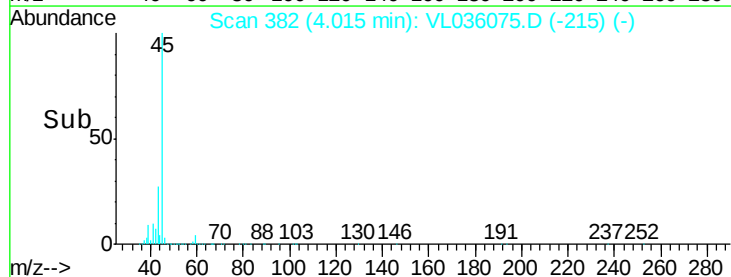
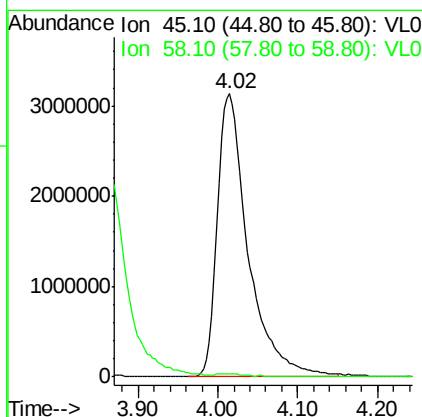
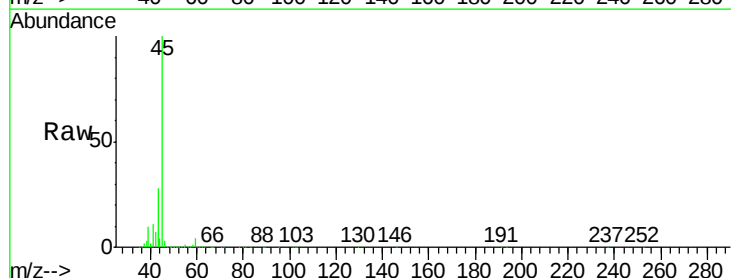
Acq: 7 Dec 2020 21:48

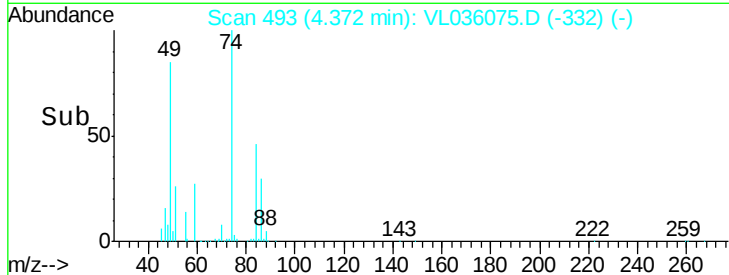
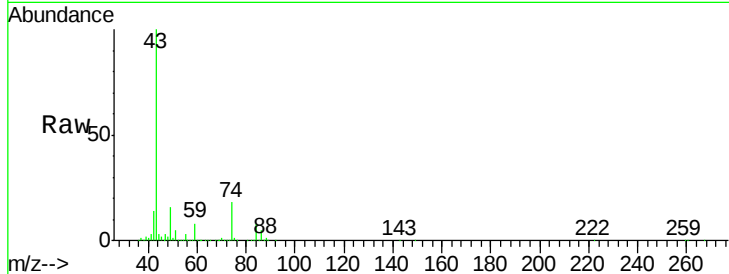
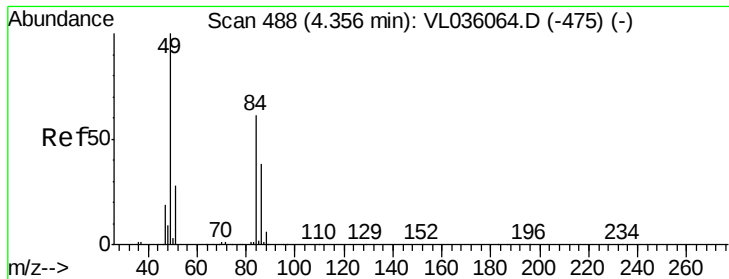
Tgt Ion: 45 Resp: 8307906

Ion Ratio Lower Upper

45 100

58 69.6 0.0 0.0#





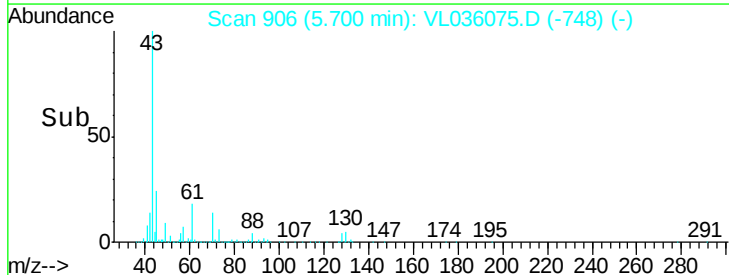
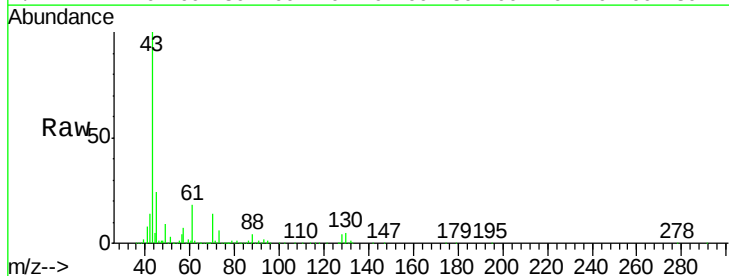
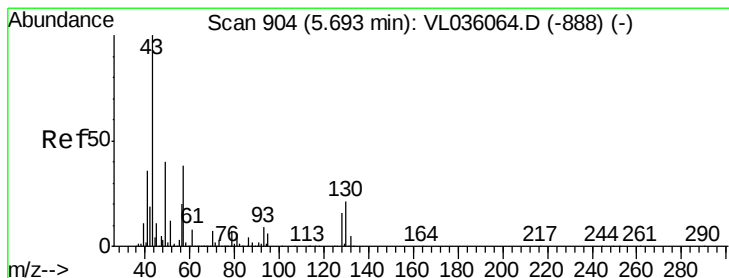
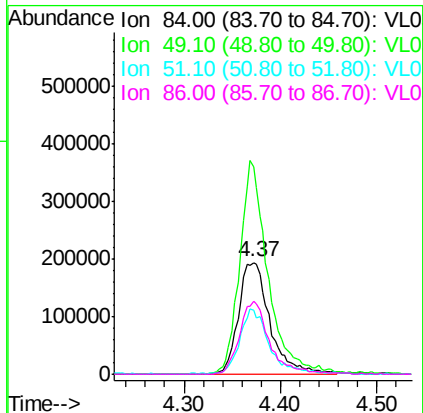
#20
Methvlene Chloride
Concen: 8.978 ppbv m
RT: 4.37 min Scan# 493
Delta R.T. 0.02 min
Lab File: VL036075.D
Acq: 7 Dec 2020 21:48

Tot Ion	84	Resp	440523
Ion Ratio	Lower	Upper	
84	100		
49	186.2	133.0	199.4
51	57.2	38.9	58.3
86	65.5	48.8	73.2

Instrument :
MSVOA_L
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IA-3DUP

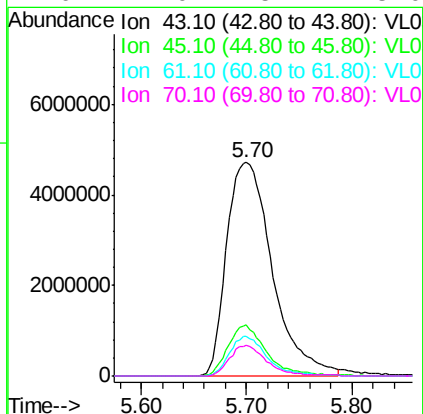
Manual Integrations
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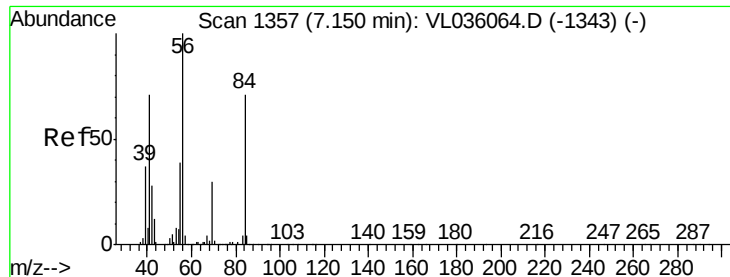
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#25
Ethyl Acetate
Concen: 59.162 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL036075.D
Acq: 7 Dec 2020 21:48

Tgt Ion	43	Resp	14152704
Ion Ratio	Lower	Upper	
43	100		
45	20.3	8.2	12.4#
61	15.6	7.4	11.2#
70	12.0	5.4	8.0#





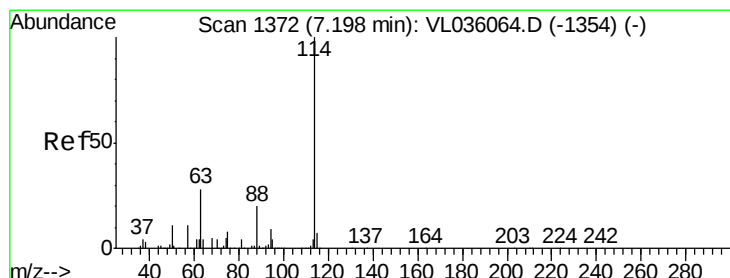
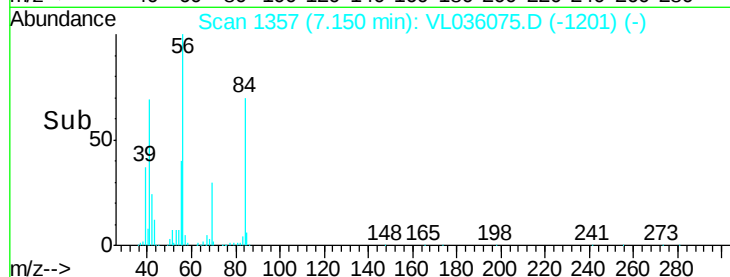
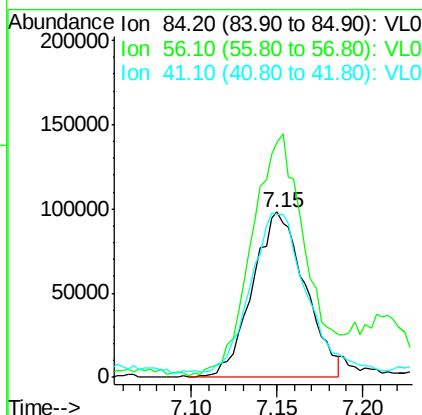
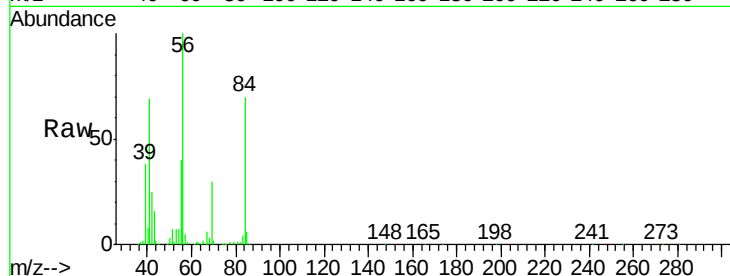
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Cvclohexane
Concen: 2.640 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. 0.00 min
Lab File: VL036075.D
Acq: 7 Dec 2020 21:48

Instrument :
MSVOA_L
ClientSampleId :
IA-3DUP

Tot Ion	Ratio	Lower	Upper
84	100		
56	152.5	128.0	192.0
41	104.2	81.3	121.9

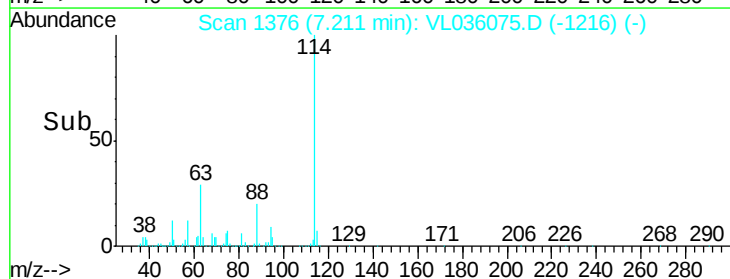
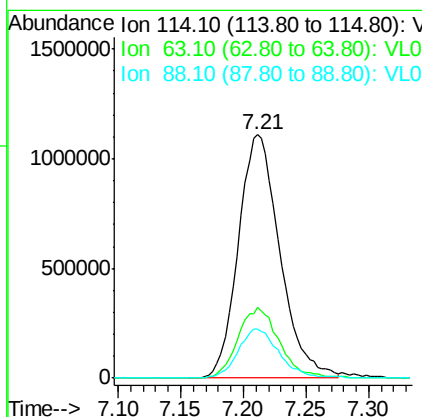
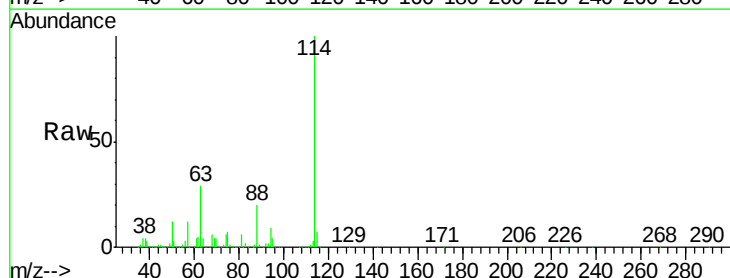
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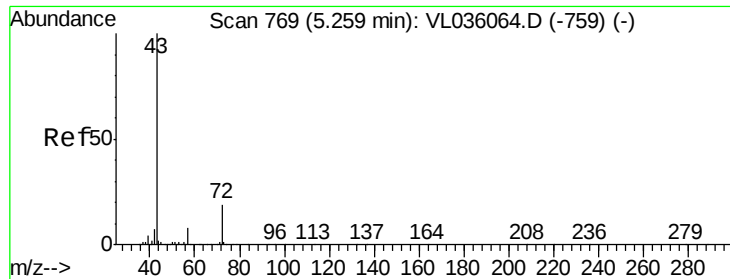
MMDadoda
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1376
Delta R.T. 0.01 min
Lab File: VL036075.D
Acq: 7 Dec 2020 21:48

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.3	23.6	35.4
88	20.1	15.8	23.6





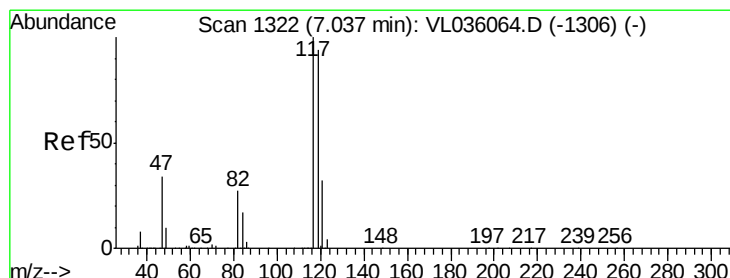
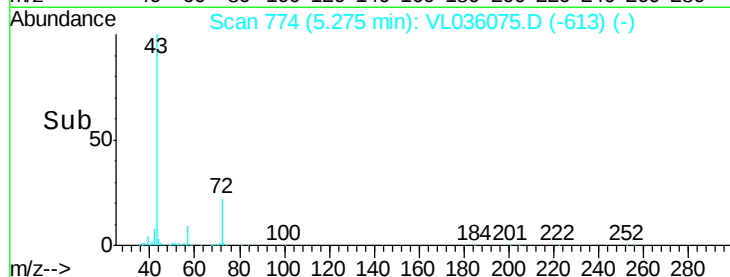
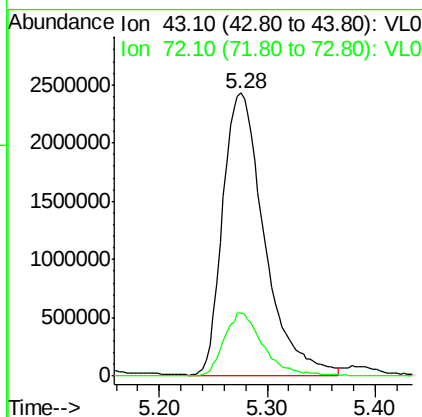
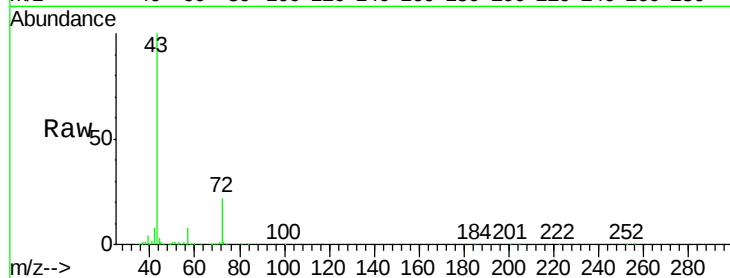
#34
2-Butanone
Concen: 38.293 ppbv
RT: 5.28 min Scan# 774
Delta R.T. 0.02 min
Lab File: VL036075.D
Acq: 7 Dec 2020 21:48

Instrument :
MSVOA_L
ClientSampleId :
IA-3DUP

Tot Ion: 43 Resp: 6495383
Ion Ratio Lower Upper
43 100
72 21.4 16.5 24.7

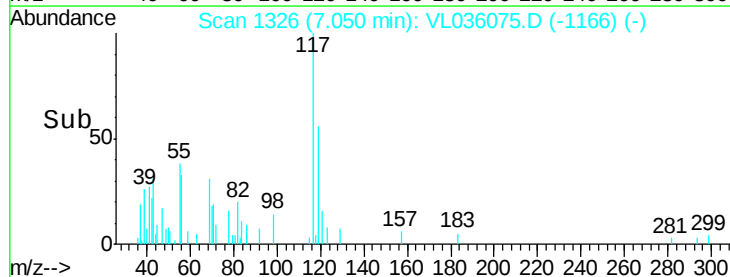
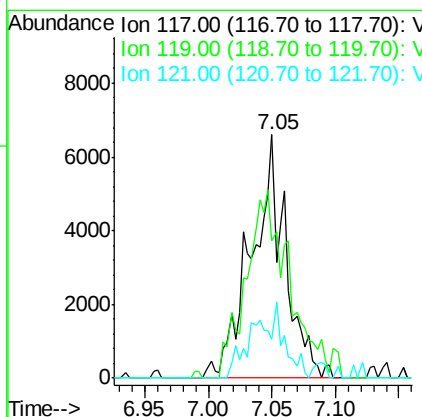
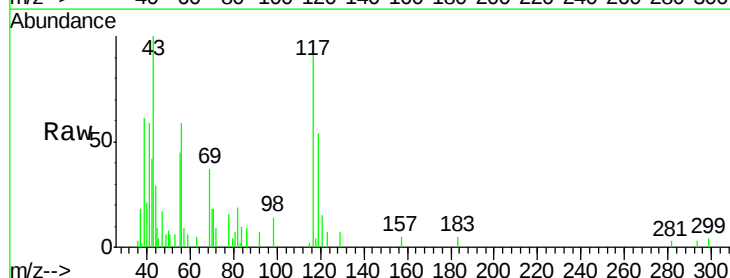
Manual Integrations
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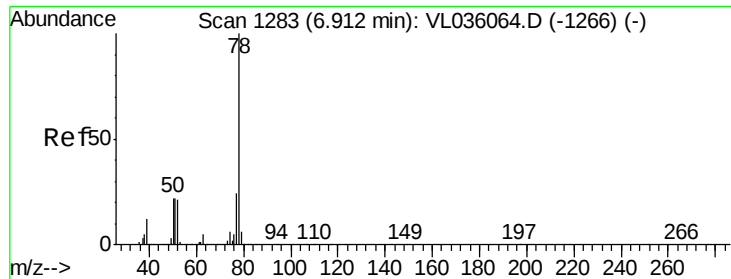
MMDadoda
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#35
Carbon Tetrachloride
Concen: 0.083 ppbv m
RT: 7.05 min Scan# 1326
Delta R.T. 0.01 min
Lab File: VL036075.D
Acq: 7 Dec 2020 21:48

Tgt Ion: 117 Resp: 12304
Ion Ratio Lower Upper
117 100
119 56.2 75.1 112.7#
121 15.8 25.6 38.4#





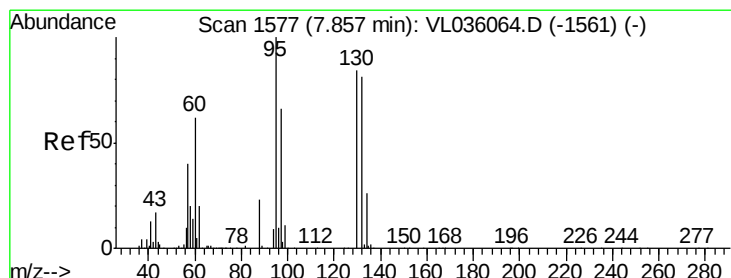
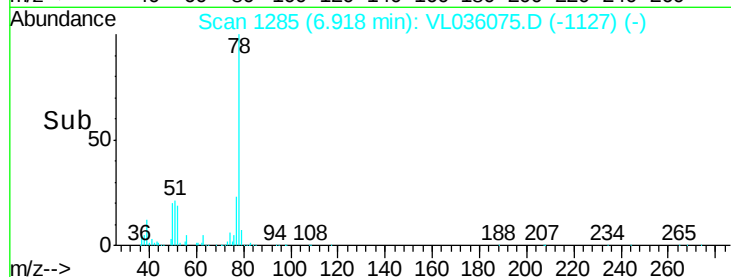
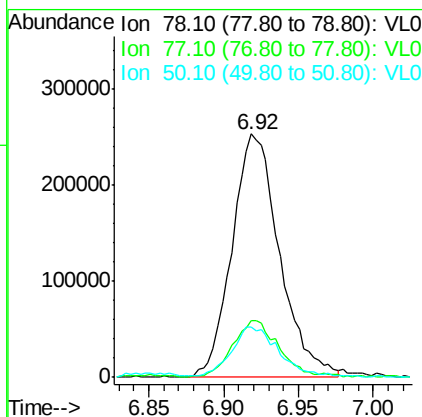
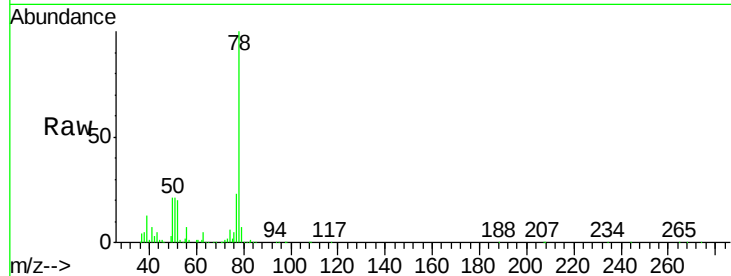
#36
Benzene
Concen: 2.564 ppbv
RT: 6.92 min Scan# 1285
Delta R.T. 0.01 min
Lab File: VL036075.D
Acq: 7 Dec 2020 21:48

Instrument :
MSVOA_L
ClientSampleId :
IA-3DUP

Tot Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.4	29.2
50	19.9	17.8	26.8

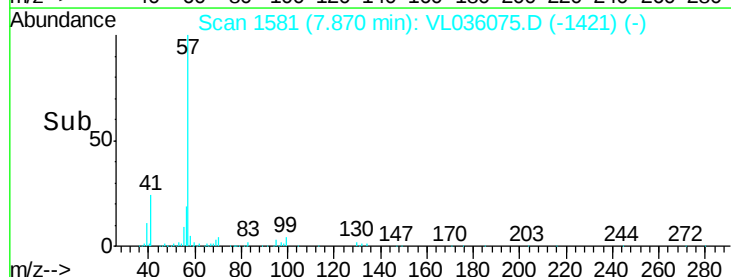
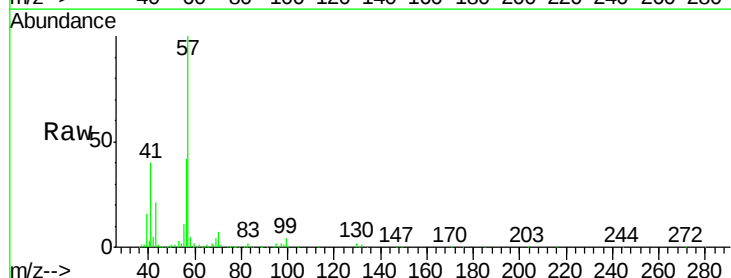
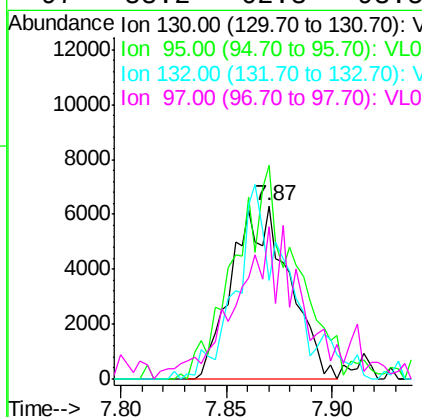
Manual Integrations
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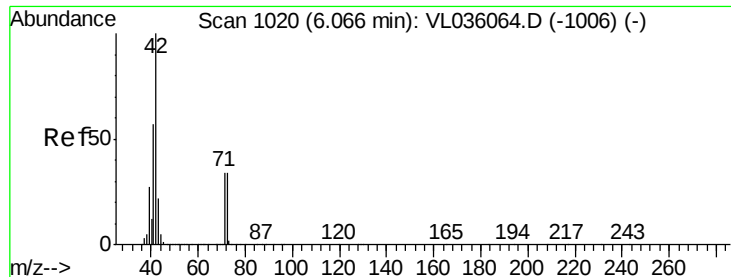
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#38
Trichloroethene
Concen: 0.147 ppbv m
RT: 7.87 min Scan# 1581
Delta R.T. 0.01 min
Lab File: VL036075.D
Acq: 7 Dec 2020 21:48

Tgt Ion	Ratio	Lower	Upper
130	100		
95	123.3	95.2	142.8
132	57.2	76.9	115.3#
97	88.2	62.3	93.5





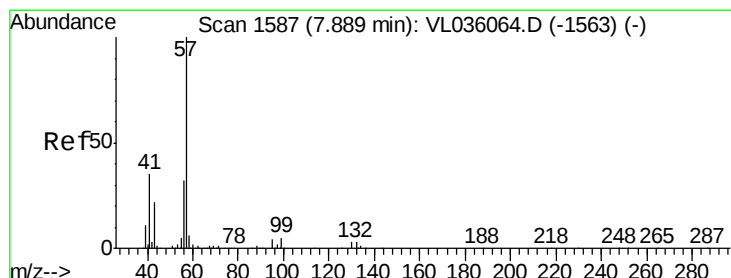
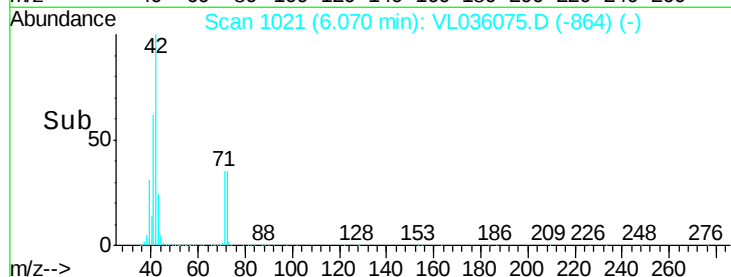
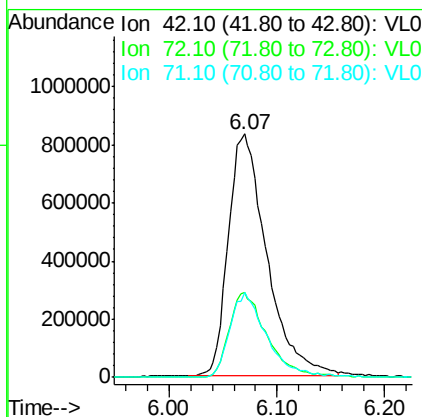
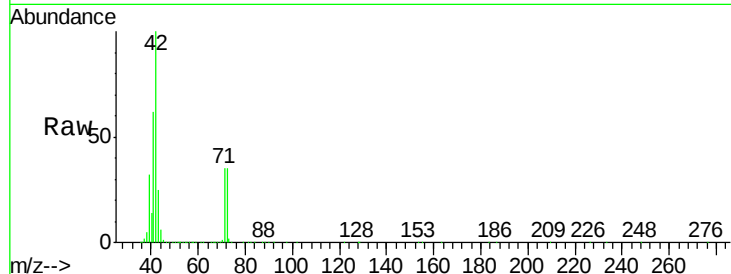
#41
Tetrahydrofuran
Concen: 20.600 ppbv
RT: 6.07 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VL036075.D
Acq: 7 Dec 2020 21:48

Instrument :
MSVOA_L
ClientSampleId :
IA-3DUP

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.8	28.3	42.5
71	33.8	27.3	40.9

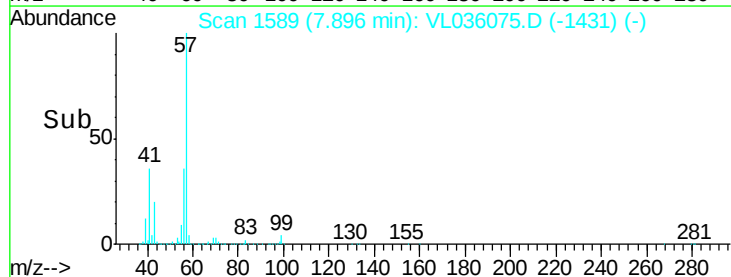
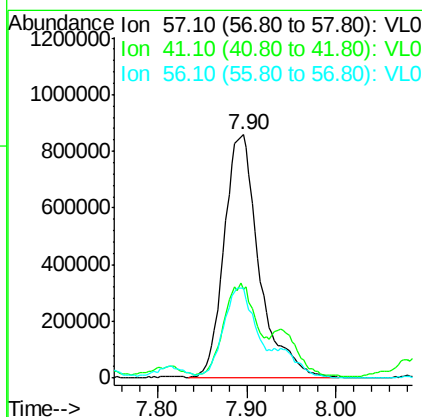
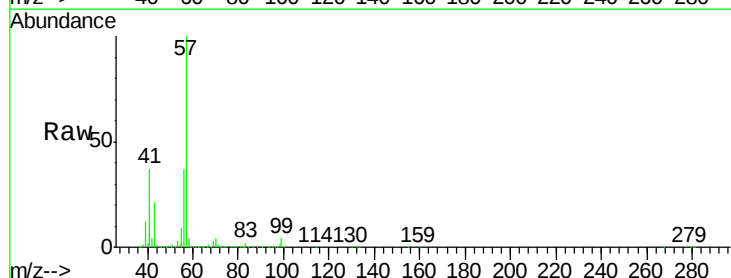
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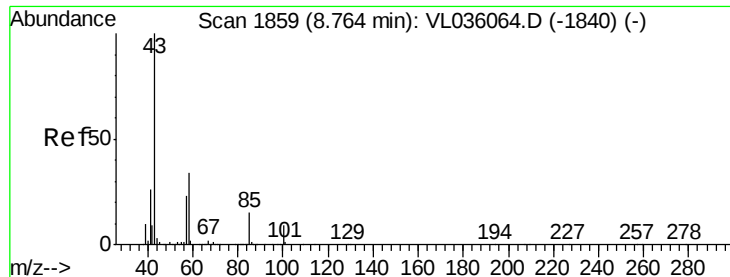
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#44
2,2,4-Trimethylpentane
Concen: 5.939 ppbv
RT: 7.90 min Scan# 1589
Delta R.T. 0.01 min
Lab File: VL036075.D
Acq: 7 Dec 2020 21:48

Tgt Ion	Ratio	Lower	Upper
57	100		
41	37.4	28.9	43.3
56	43.3	25.3	37.9#





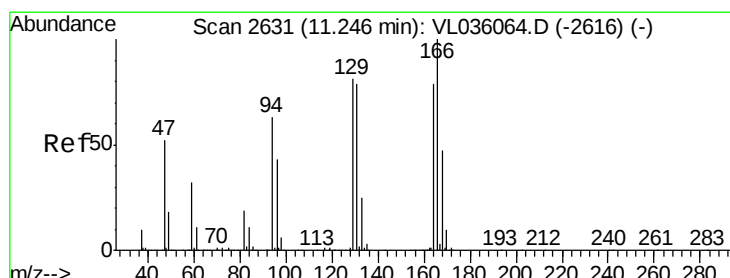
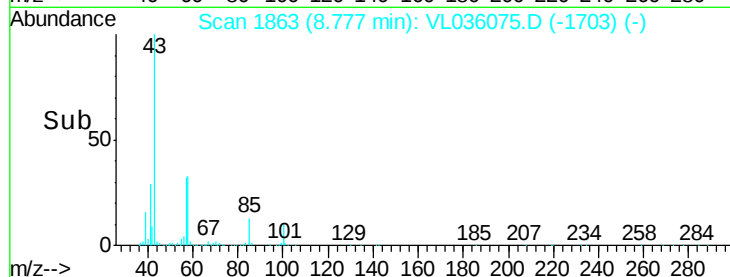
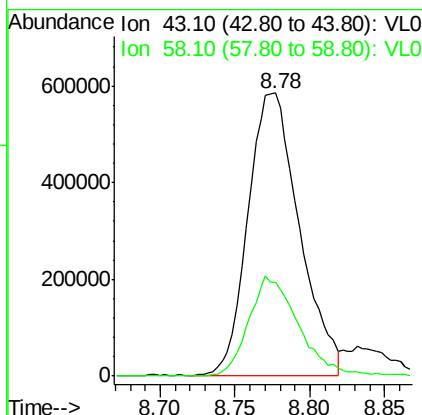
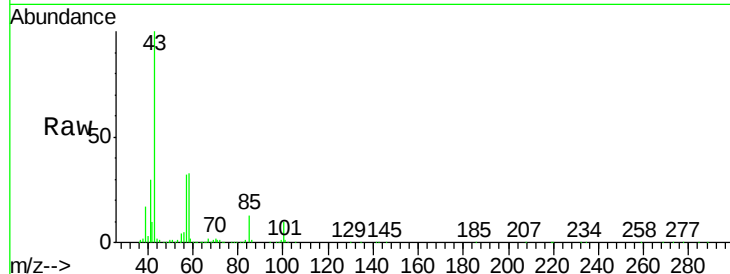
#50
4-Methyl-2-Pentanone
Concen: 5.510 ppbv
RT: 8.78 min Scan# 1863
Delta R.T. 0.01 min
Lab File: VL036075.D
Acq: 7 Dec 2020 21:48

Instrument :
MSVOA_L
ClientSampleId :
IA-3DUP

Tot Ion: 43 Resp: 1393788
Ion Ratio Lower Upper
43 100
58 34.9 27.4 41.2

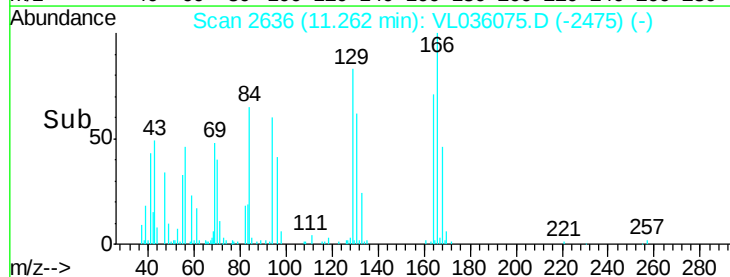
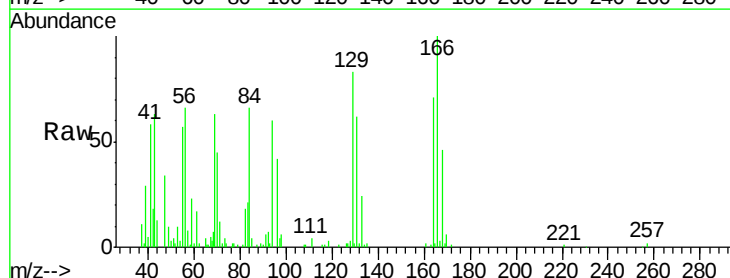
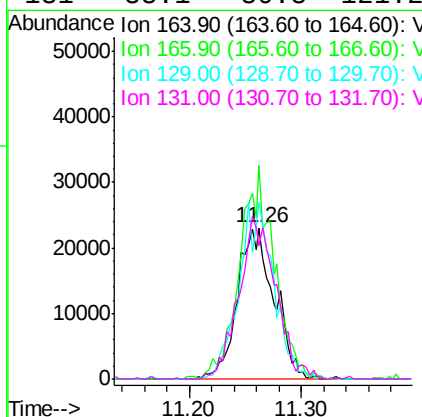
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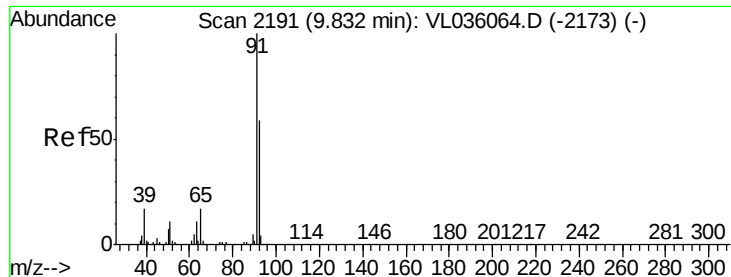
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#52
Tetrachloroethene
Concen: 0.673 ppbv m
RT: 11.26 min Scan# 2636
Delta R.T. 0.02 min
Lab File: VL036075.D
Acq: 7 Dec 2020 21:48

Tgt Ion: 164 Resp: 52785
Ion Ratio Lower Upper
164 100
166 141.3 101.9 152.9
129 116.8 82.1 123.1
131 88.1 80.8 121.2





#53

Toluene

Concen: 111.402 ppbv

RT: 9.86 min Scan# 2200

Delta R.T. 0.03 min

Lab File: VL036075.D

Acq: 7 Dec 2020 21:48

Instrument :

MSVOA_L

ClientSampleId :

IA-3DUP

Tot Ion: 91 Resp: 27109793

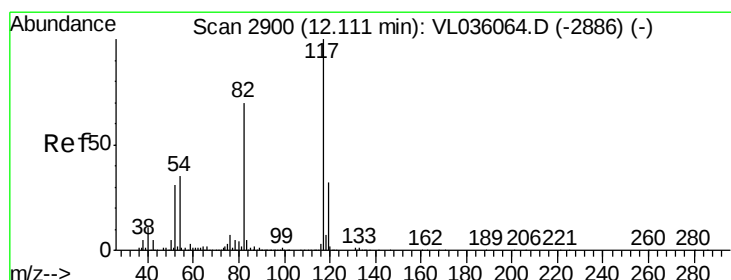
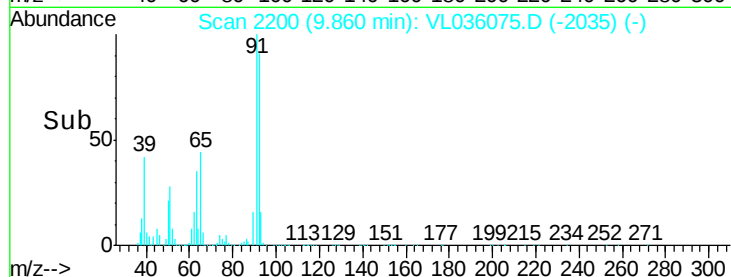
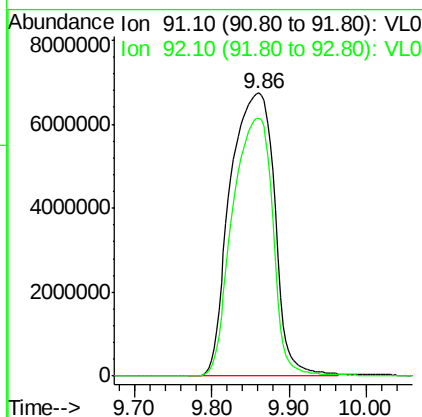
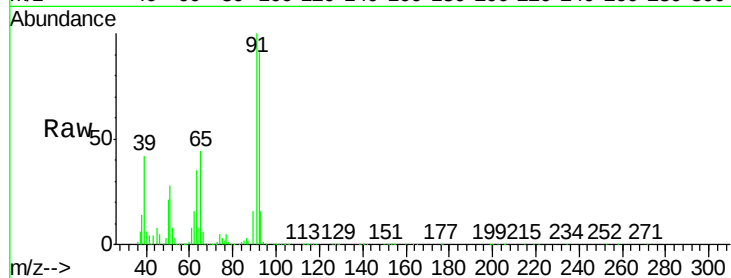
Ion Ratio Lower Upper

91 100

92 82.7 48.2 72.2#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2903

Delta R.T. 0.01 min

Lab File: VL036075.D

Acq: 7 Dec 2020 21:48

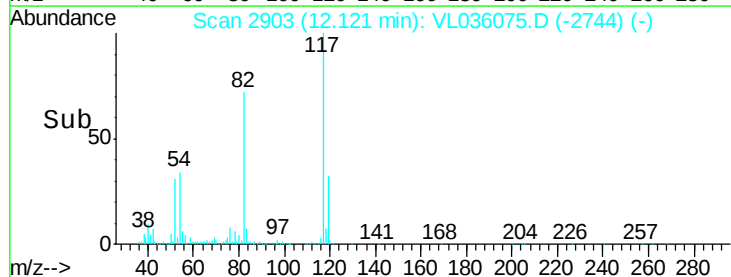
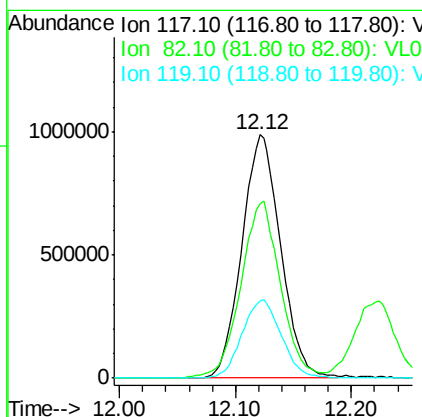
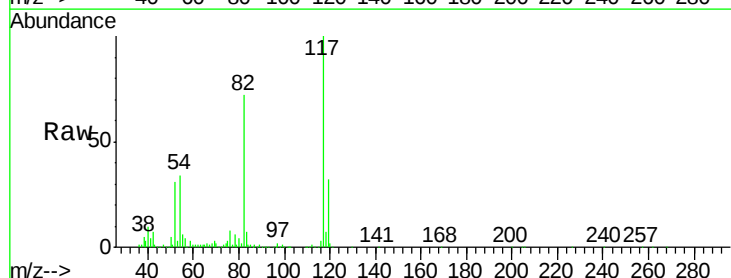
Tgt Ion: 117 Resp: 2294634

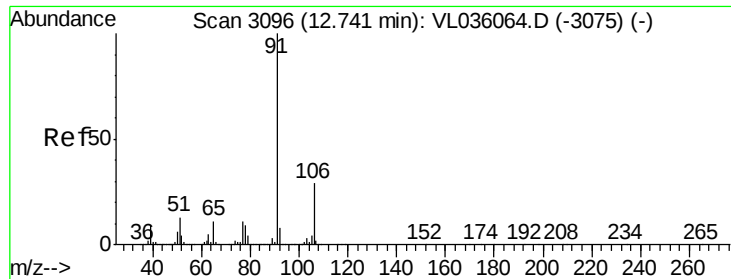
Ion Ratio Lower Upper

117 100

82 74.1 0.0 0.0#

119 32.7 0.0 0.0#





#58

Ethyl Benzene

Concen: 11.829 ppbv

RT: 12.75 min Scan# 3098

Delta R.T. 0.01 min

Lab File: VL036075.D

Acq: 7 Dec 2020 21:48

Instrument :

MSVOA_L

ClientSampleId :

IA-3DUP

Tot Ion: 91 Resp: 3719809

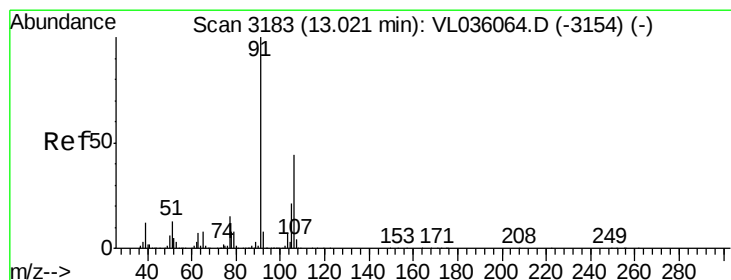
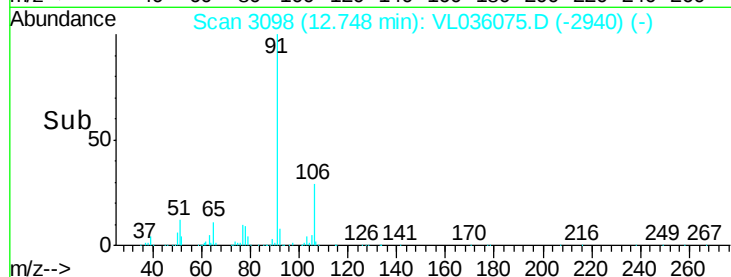
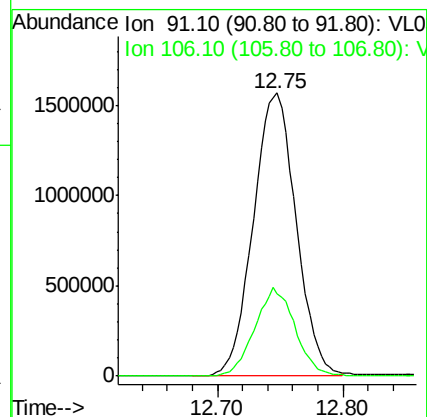
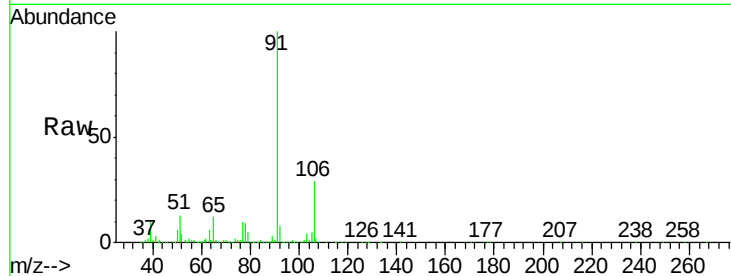
Ion Ratio Lower Upper

91 100

106 29.3 23.0 34.4

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#59

m/p-Xylene

Concen: 34.150 ppbv

RT: 13.00 min Scan# 3177

Delta R.T. -0.02 min

Lab File: VL036075.D

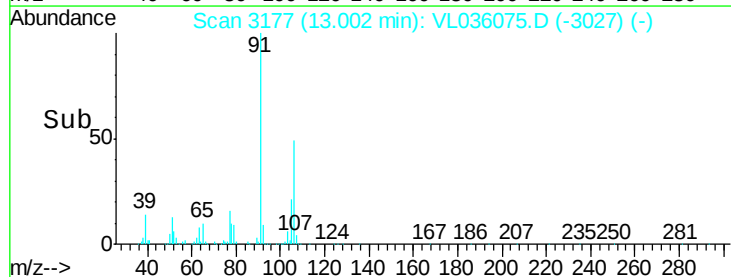
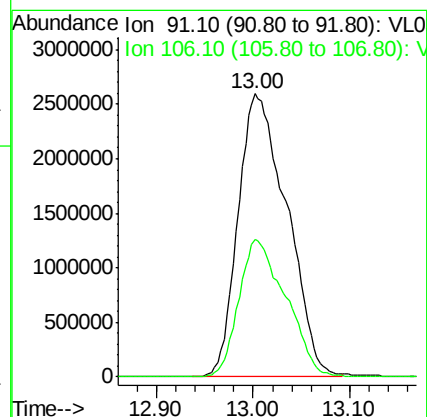
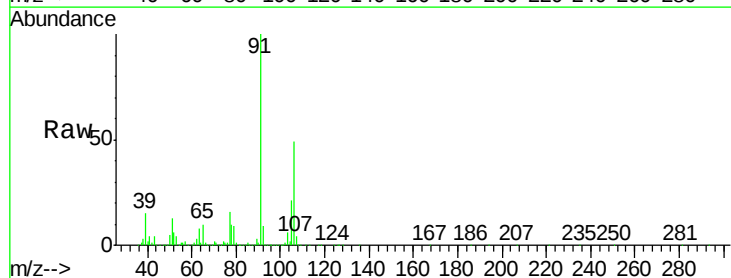
Acq: 7 Dec 2020 21:48

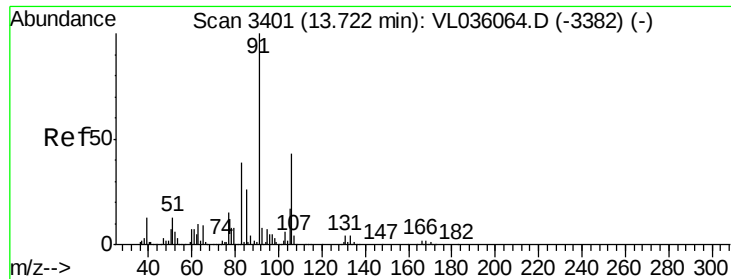
Tgt Ion: 91 Resp: 9044926

Ion Ratio Lower Upper

91 100

106 47.0 33.6 50.4





#60

o-Xylene

Concen: 12.640 ppbv

RT: 13.73 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VL036075.D

Acq: 7 Dec 2020 21:48

Instrument :

MSVOA_L

ClientSampleId :

IA-3DUP

Tot Ion: 91 Resp: 3154214

Ion Ratio Lower Upper

91 100

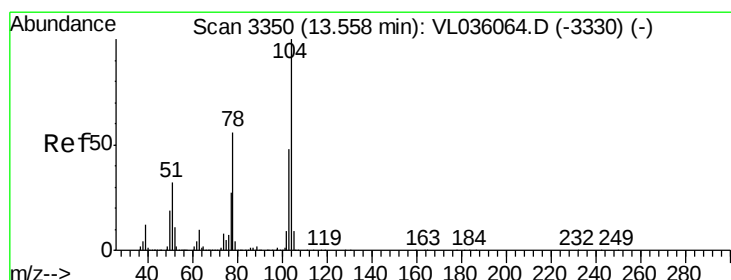
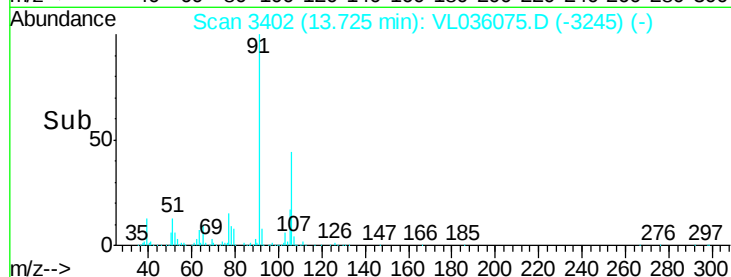
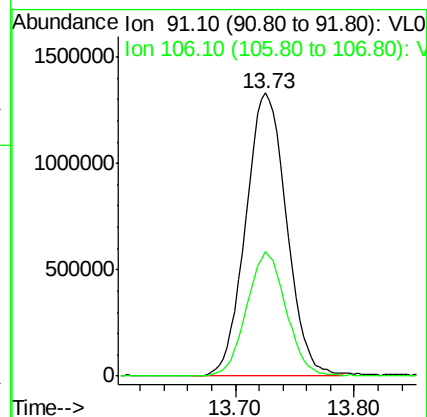
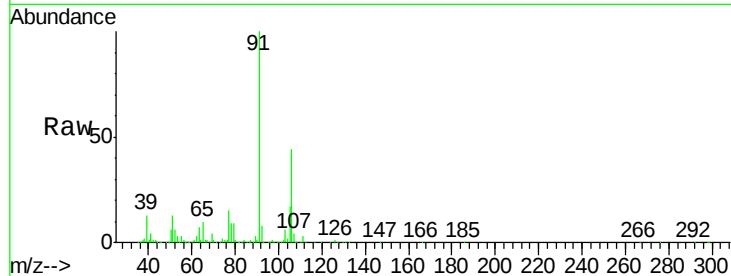
106 42.4 21.6 64.6

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#61

Styrene

Concen: 7.594 ppbv

RT: 13.56 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VL036075.D

Acq: 7 Dec 2020 21:48

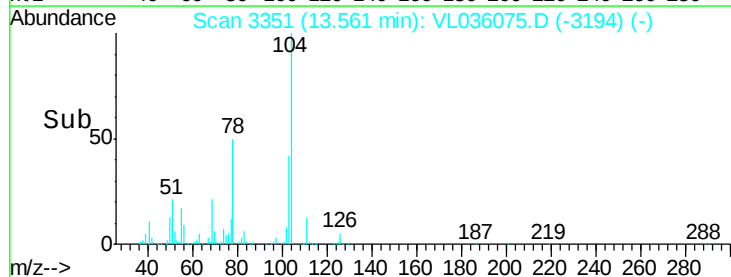
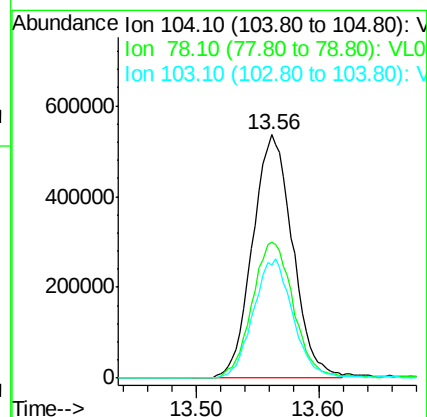
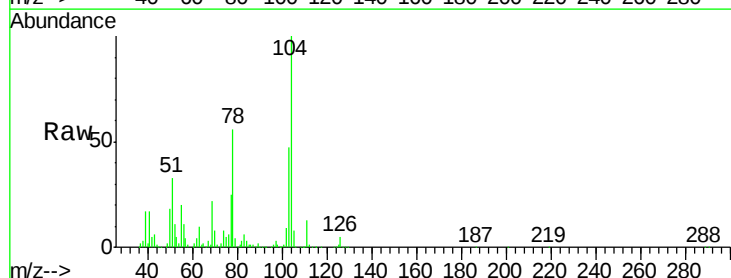
Tgt Ion: 104 Resp: 1216591

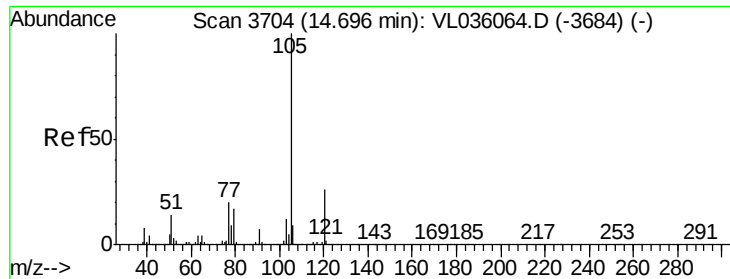
Ion Ratio Lower Upper

104 100

78 57.9 45.8 68.8

103 48.7 38.6 57.8





#62

Isopropylbenzene

Concen: 0.598 ppbv

RT: 14.70 min Scan# 3704

Delta R.T. 0.00 min

Lab File: VL036075.D

Acq: 7 Dec 2020 21:48

Instrument :

MSVOA_L

ClientSampleId :

IA-3DUP

Tot Ion:105 Resp: 221306

Ion Ratio Lower Upper

105 100

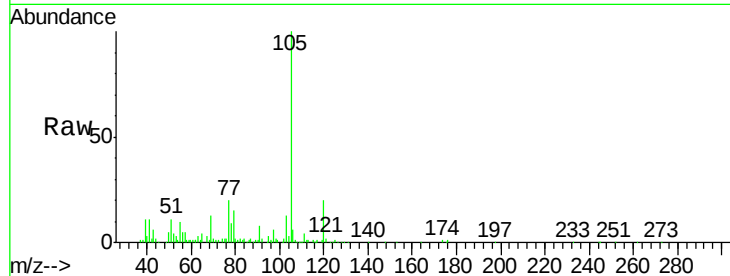
120 25.2 20.1 30.1

Manual Integrations

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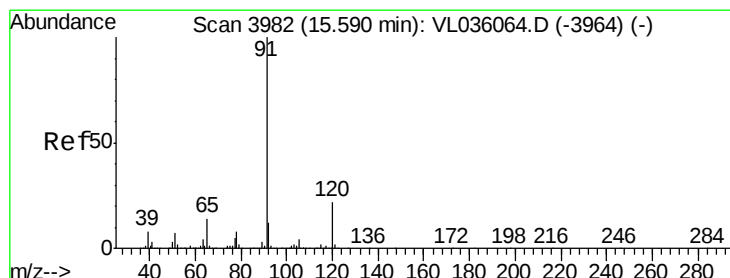
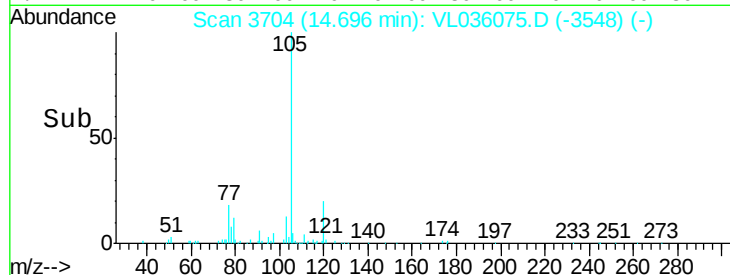
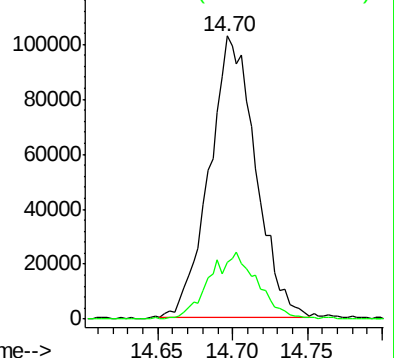
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 1.849 ppbv

RT: 15.59 min Scan# 3982

Delta R.T. 0.00 min

Lab File: VL036075.D

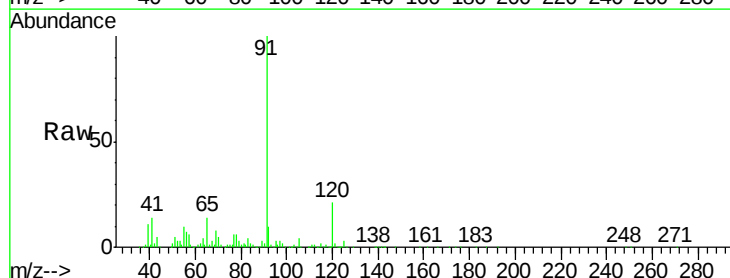
Acq: 7 Dec 2020 21:48

Tgt Ion:120 Resp: 164511

Ion Ratio Lower Upper

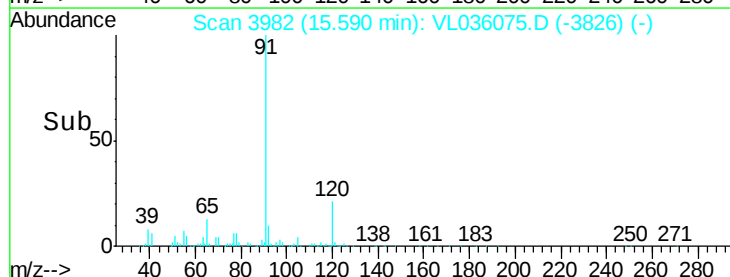
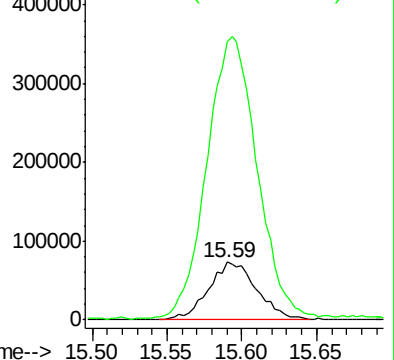
120 100

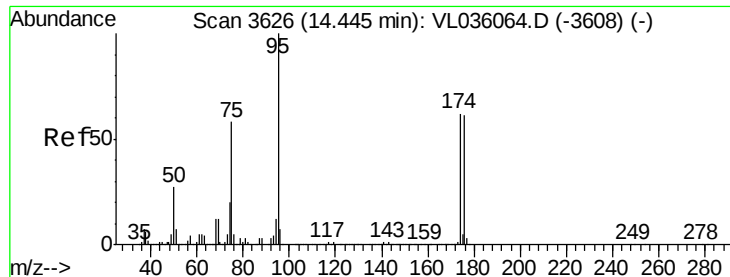
91 512.9 388.9 583.3



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.938 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. 0.00 min

Lab File: VL036075.D

Acq: 7 Dec 2020 21:48

Instrument :

MSVOA_L

ClientSampleId :

IA-3DUP

Tot Ion: 95 Resp: 1992916

Ion Ratio Lower Upper

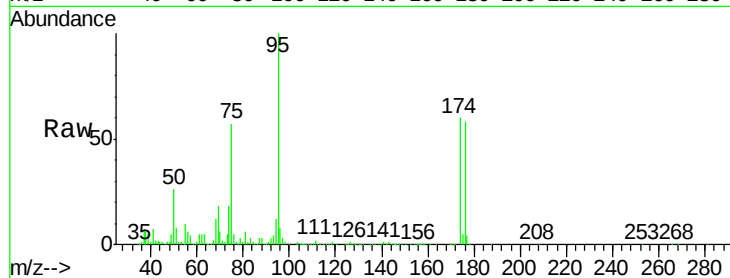
95 100

174 60.1 50.7 76.1

175 4.6 4.0 6.0

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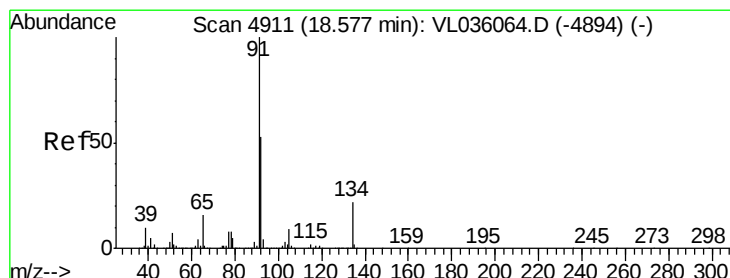
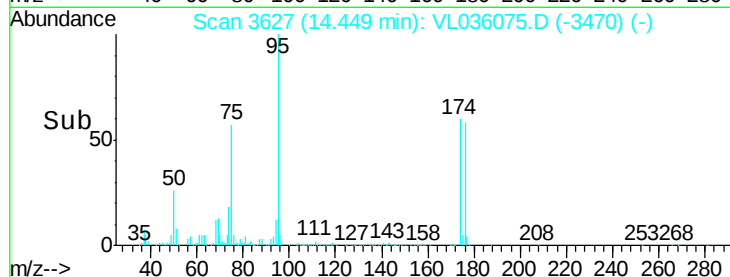
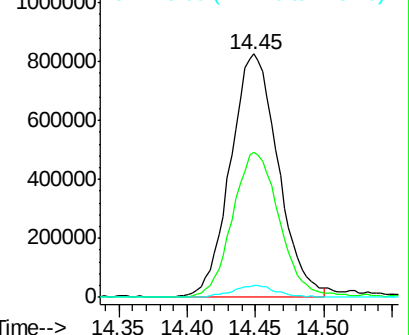
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Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#70

n-Butylbenzene

Concen: 0.219 ppbv m

RT: 18.58 min Scan# 4911

Delta R.T. 0.00 min

Lab File: VL036075.D

Acq: 7 Dec 2020 21:48

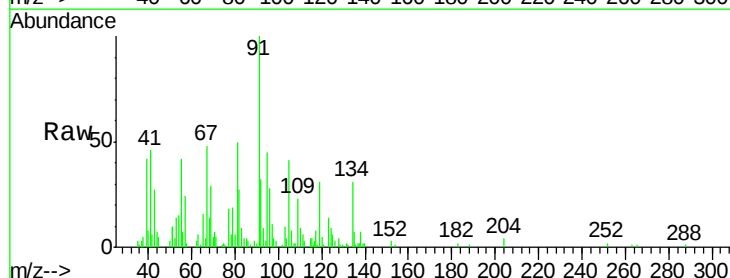
Tgt Ion: 91 Resp: 72935

Ion Ratio Lower Upper

91 100

92 37.2 43.3 64.9#

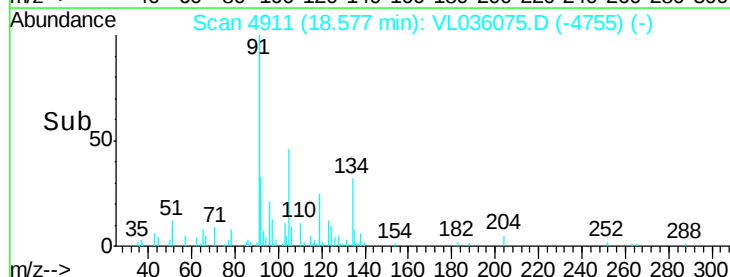
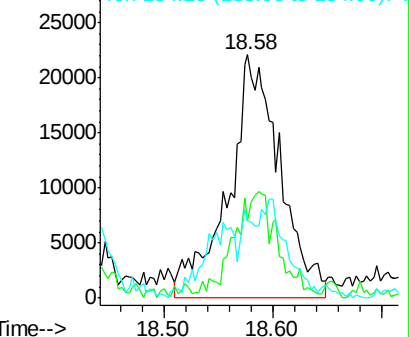
134 0.0 17.1 25.7#

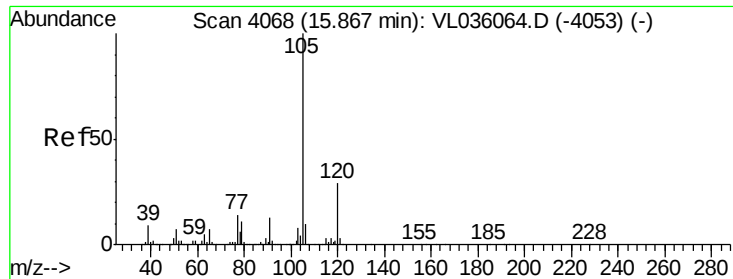


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#72

4-Ethyltoluene

Concen: 3.005 ppbv

RT: 15.87 min Scan# 4069

Delta R.T. 0.00 min

Lab File: VL036075.D

Acq: 7 Dec 2020 21:48

Instrument :

MSVOA_L

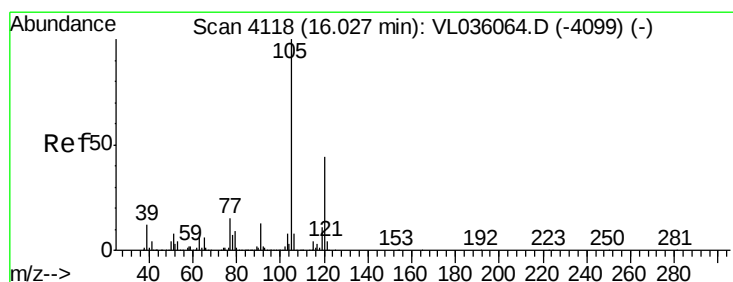
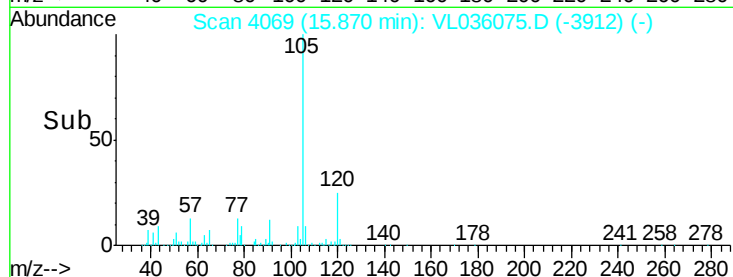
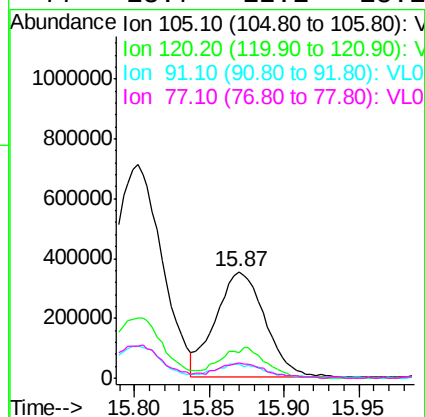
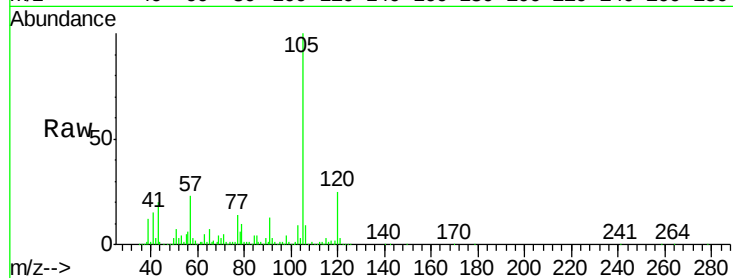
ClientSampled :

IA-3DUP

Tot Ion:	105	Resp:	812356
Ion Ratio	Lower	Upper	
105	100		
120	27.8	23.6	35.4
91	12.4	11.4	17.0
77	13.7	12.1	18.1

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#73

1,3,5-Trimethylbenzene

Concen: 1.883 ppbv

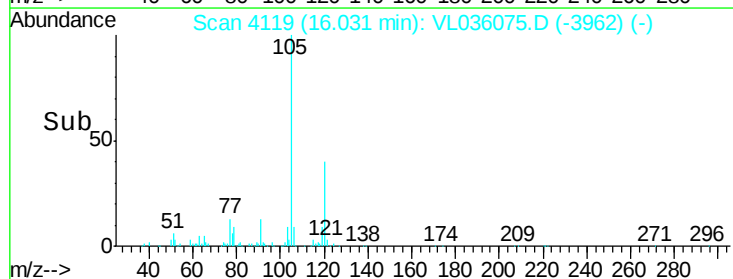
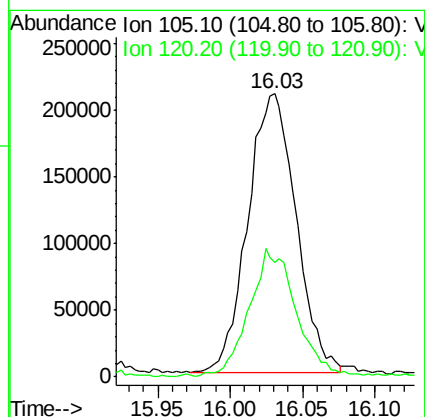
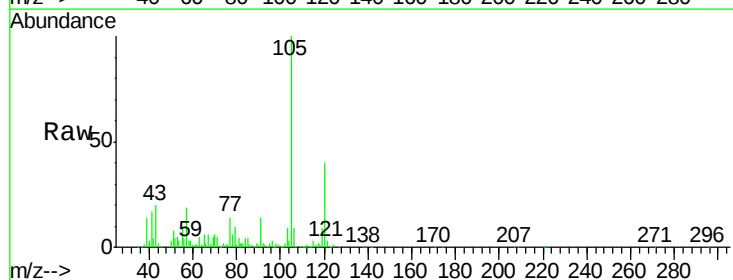
RT: 16.03 min Scan# 4119

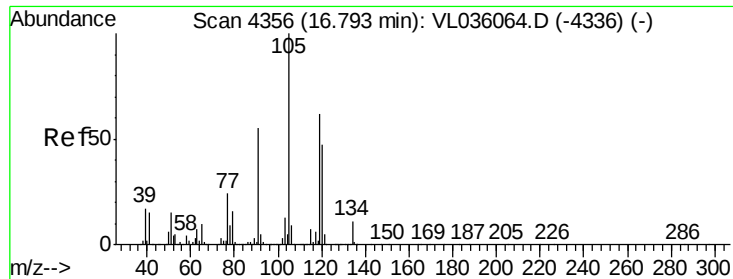
Delta R.T. 0.00 min

Lab File: VL036075.D

Acq: 7 Dec 2020 21:48

Tgt Ion:	105	Resp:	486094
Ion Ratio	Lower	Upper	
105	100		
120	40.2	35.4	53.2





#74
 1,2,4-Trimethylbenzene
 Concen: 4.621 ppbv
 RT: 16.79 min Scan# 4355
 Delta R.T. -0.00 min
 Lab File: VL036075.D
 Acq: 7 Dec 2020 21:48

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3DUP

Tot Ion	Ratio	Resp	Lower	Upper
105	100	1197495		
120	42.5		37.4	56.0
91	10.9		45.6	68.4#
77	14.9		19.4	29.2#

Manual Integrations
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