

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033121\
 Data File : VL036615.D
 Acq On : 1 Apr 2021 00:02
 Operator : SY/AP
 Sample : M1807-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG3

Manual Integrations
 APPROVED

MMDadoda
 4/2/2021 6:53:36 PM

Quant Time: Apr 02 15:41:49 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1368213	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3359722	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2983222	10.00	ppbv	0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.44	95	2340097	9.84	ppbv	0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	36073	0.162	ppbv	92
3) Chlorodifluoromethane	3.00	51	114465	0.448	ppbv #	87
4) Chloromethane	3.15	50	50057	0.554	ppbv #	87
9) Propene	3.02	41	68763	0.844	ppbv	84
10) Heptane	8.14	43	187535	0.903	ppbv	96
11) Trichlorofluoromethane	3.95	101	43130	0.190	ppbv	86
13) Ethanol	3.61	45	739855	76.237	ppbv	96
15) Acetone	3.86	43	1224269m	9.091	ppbv	
19) Isopropyl Alcohol	3.99	45	510311m	6.889	ppbv	
20) Methylene Chloride	4.35	84	685855	10.878	ppbv	94
26) Hexane	5.70	57	872933	5.876	ppbv #	48
30) Cyclohexane	7.14	84	28789m	0.239	ppbv	
34) 2-Butanone	5.27	43	70443	0.430	ppbv #	90
35) Carbon Tetrachloride	7.03	117	14268m	0.055	ppbv	
36) Benzene	6.91	78	105106	0.339	ppbv	95
41) Tetrahydrofuran	6.08	42	28408	0.376	ppbv #	88
44) 2,2,4-Trimethylpentane	7.89	57	154919	0.284	ppbv #	85
52) Tetrachloroethene	11.25	164	7718m	0.068	ppbv	
53) Toluene	9.83	91	438970	1.330	ppbv	99
58) Ethyl Benzene	12.73	91	130402	0.300	ppbv	92
59) m/p-Xylene	12.99	91	406456m	1.074	ppbv	
60) o-Xylene	13.72	91	143020	0.391	ppbv	99
61) Styrene	13.55	104	30398m	0.165	ppbv	
73) 1,3,5-Trimethylbenzene	16.01	105	44486m	0.119	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	194236	0.485	ppbv #	68

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

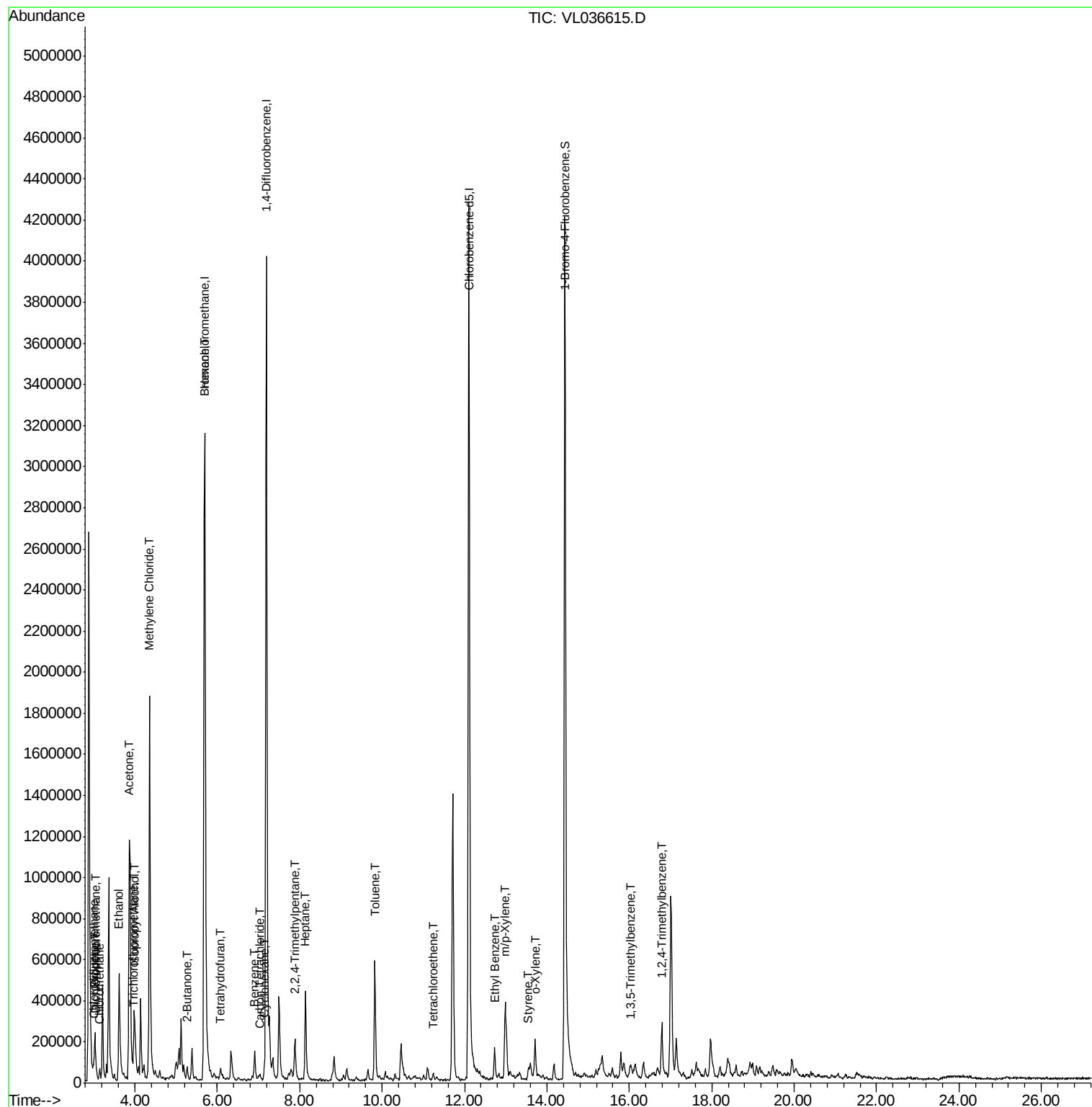
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL033121\
Data File : VL036615.D
Acq On : 1 Apr 2021 00:02
Operator : SY/AP
Sample : M1807-03
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

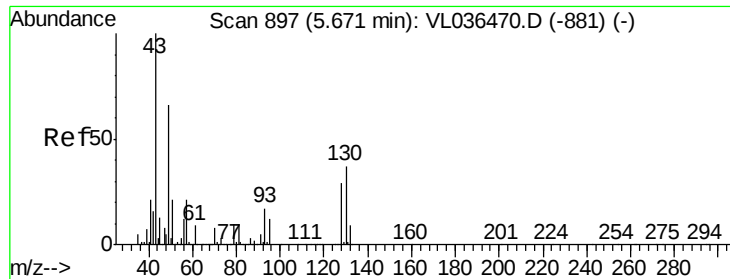
Instrument :
MSVOA_L
ClientSampleId :
SG3

Manual Integrations
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Quant Time: Apr 02 15:41:49 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

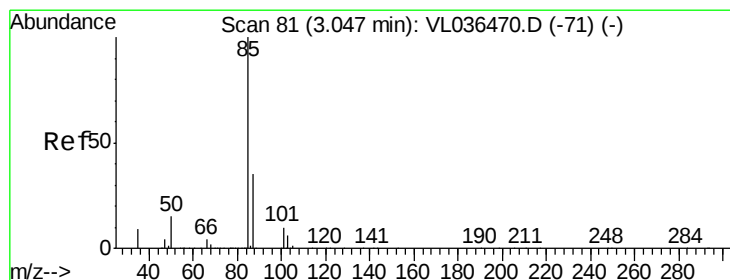
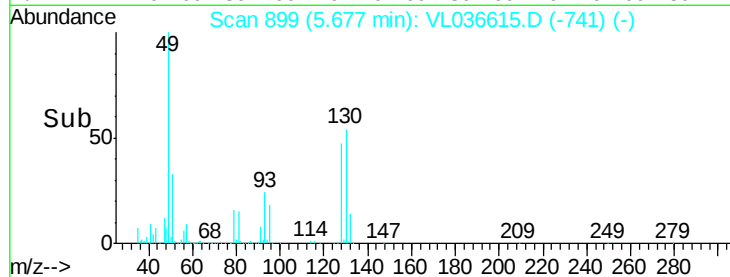
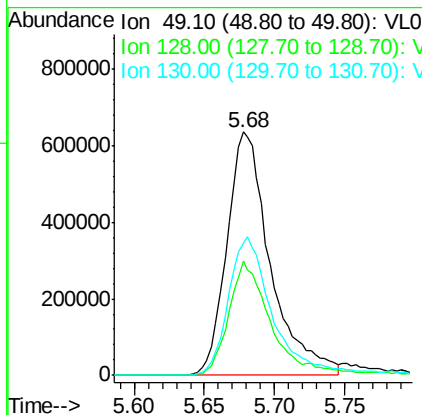
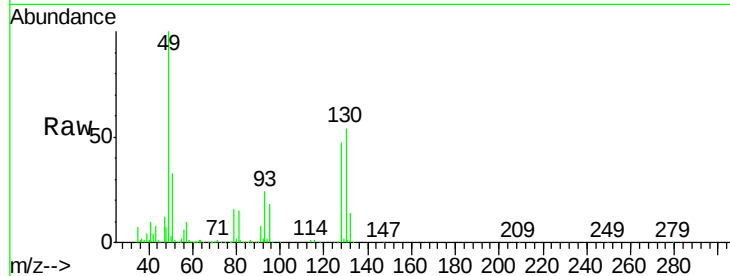
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.68 min Scan# 899
 Delta R.T. 0.01 min
 Lab File: VL036615.D
 Acq: 1 Apr 2021 00:02

Instrument :
 MSVOA_L
 ClientSampled :
 SG3

Tot Ion: 49 Resp: 1368213
 Ion Ratio Lower Upper
 49 100
 128 47.5 23.5 70.6
 130 60.2 29.1 87.4

Manual Integrations
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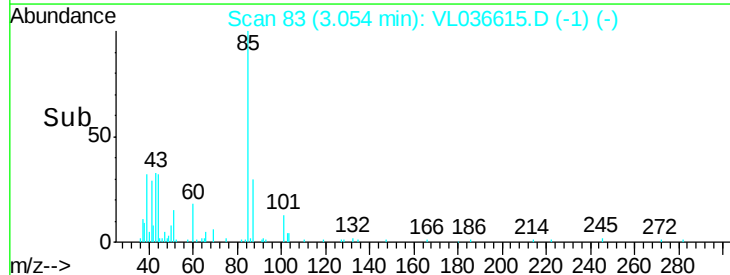
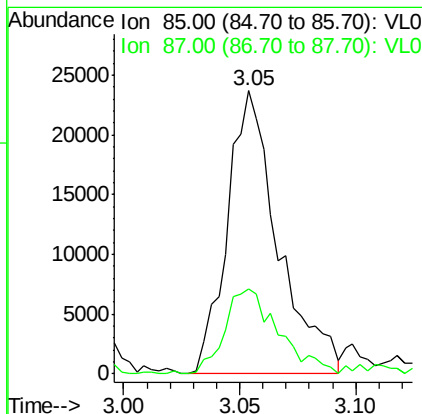
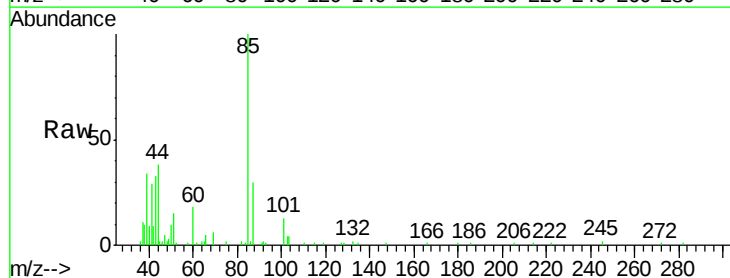
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#2

Dichlorodifluoromethane
 Concen: 0.162 ppbv
 RT: 3.05 min Scan# 83
 Delta R.T. 0.01 min
 Lab File: VL036615.D
 Acq: 1 Apr 2021 00:02

Tgt Ion: 85 Resp: 36073
 Ion Ratio Lower Upper
 85 100
 87 30.0 27.8 41.8





#3

Chlorodifluoromethane

Concen: 0.448 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.01 min

Lab File: VL036615.D

Acq: 1 Apr 2021 00:02

Instrument :

MSVOA_L

ClientSampled :

SG3

Tot Ion: 51 Resp: 114465

Ion Ratio Lower Upper

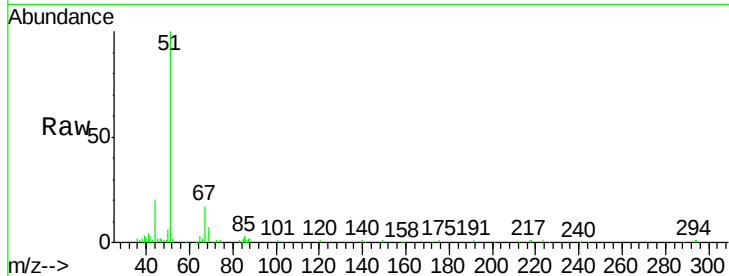
51 100

67 12.6 14.7 22.1#

Manual Integrations
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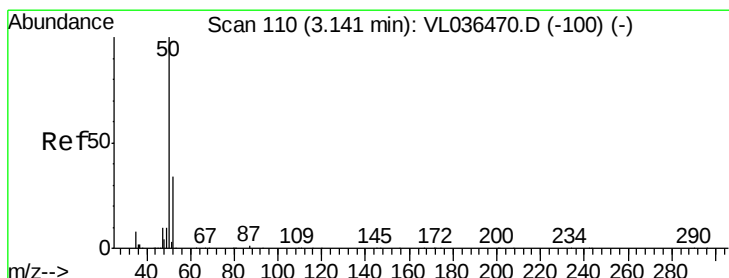
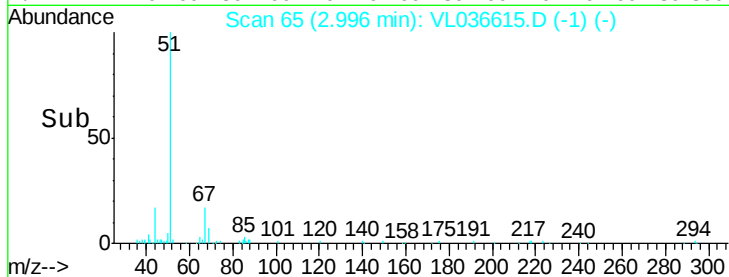
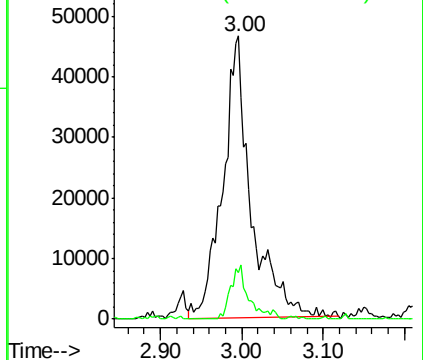
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.554 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL036615.D

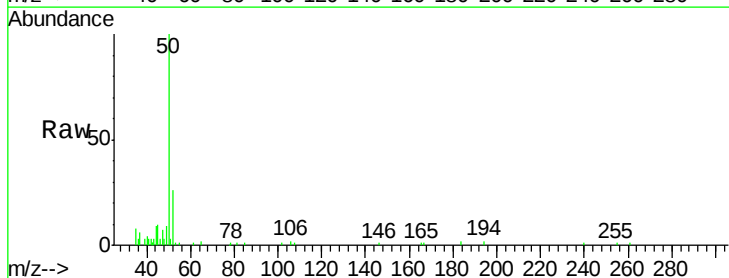
Acq: 1 Apr 2021 00:02

Tgt Ion: 50 Resp: 50057

Ion Ratio Lower Upper

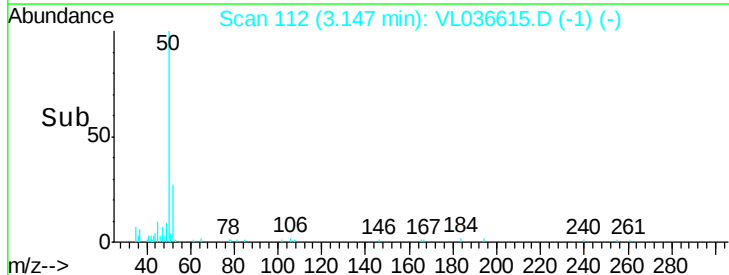
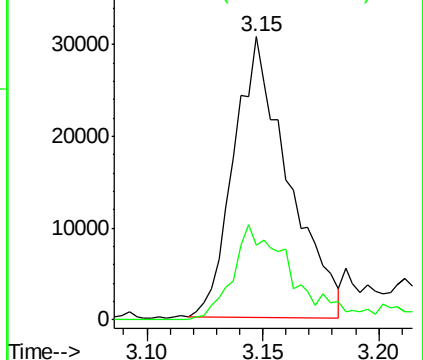
50 100

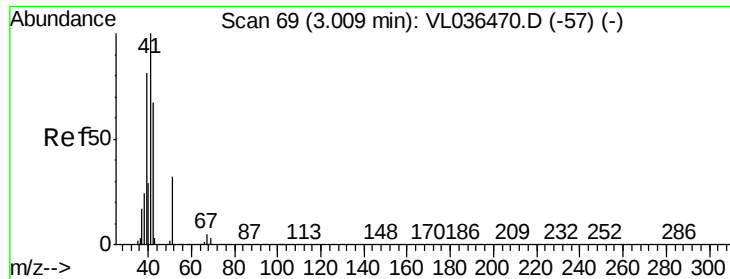
52 26.6 27.0 40.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.844 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.02 min

Lab File: VL036615.D

Acq: 1 Apr 2021 00:02

Instrument :

MSVOA_L

ClientSampleId :

SG3

Tot Ion: 41 Resp: 68763

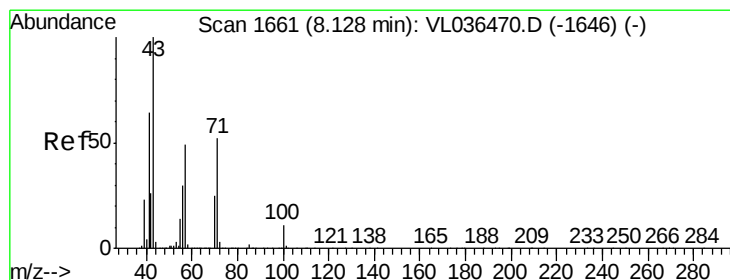
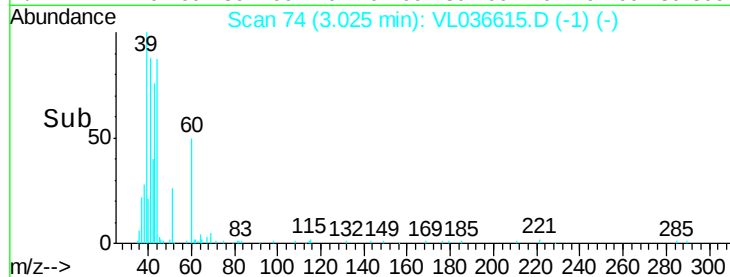
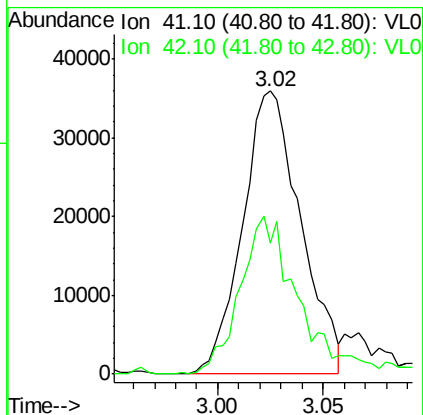
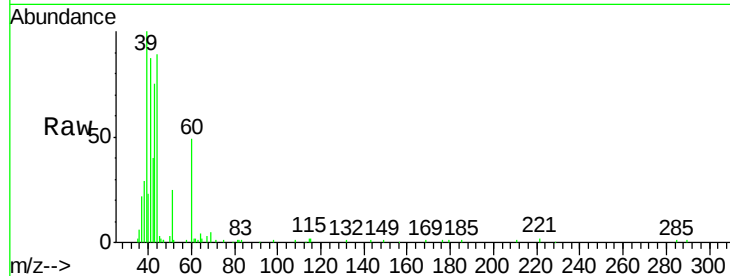
Ion Ratio Lower Upper

41 100

42 57.6 57.0 85.4

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#10

Heptane

Concen: 0.903 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.01 min

Lab File: VL036615.D

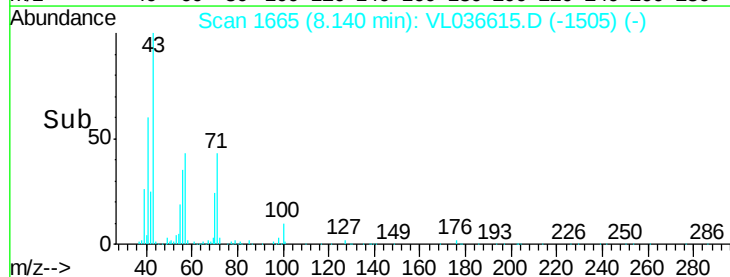
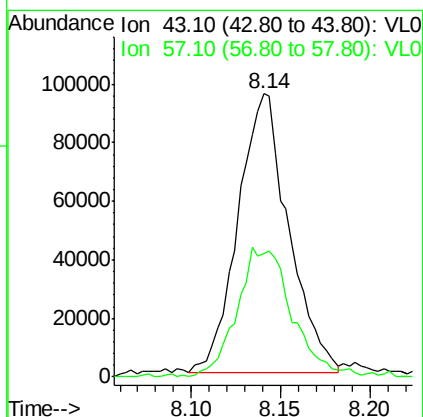
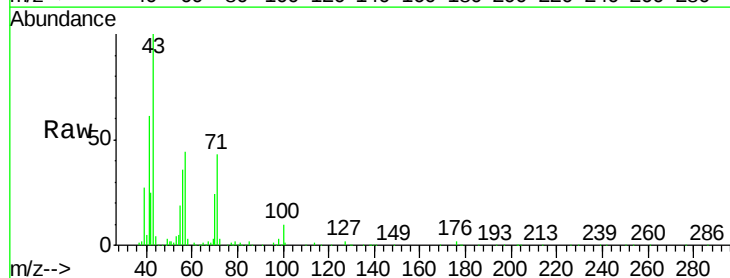
Acq: 1 Apr 2021 00:02

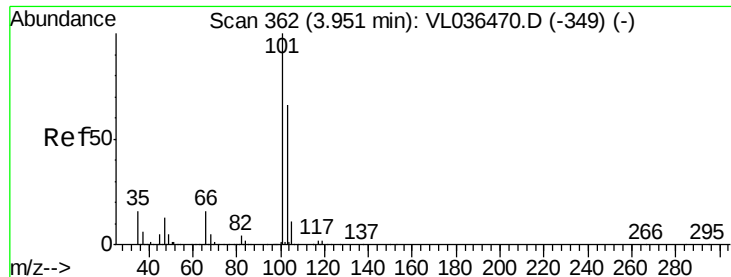
Tgt Ion: 43 Resp: 187535

Ion Ratio Lower Upper

43 100

57 51.5 39.0 58.6





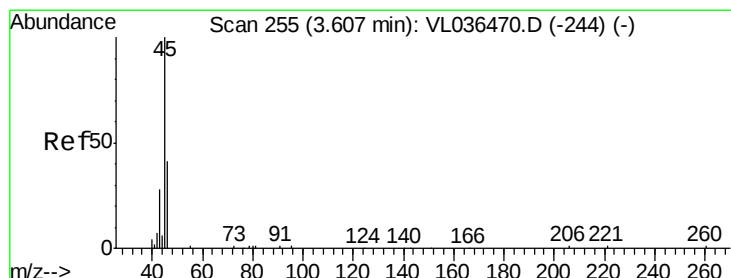
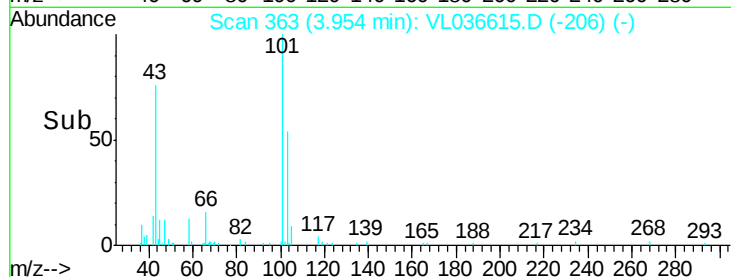
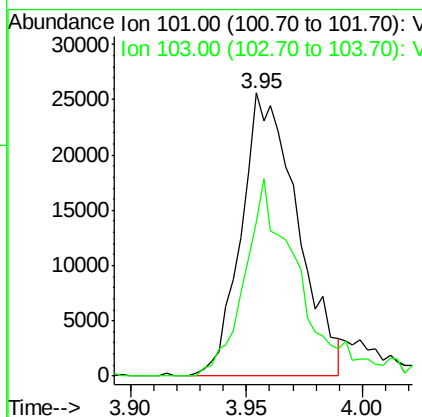
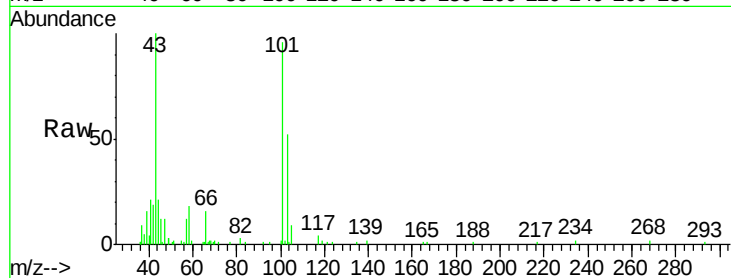
#11
 Trichlorofluoromethane
 Concen: 0.190 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. 0.00 min
 Lab File: VL036615.D
 Acq: 1 Apr 2021 00:02

Instrument :
 MSVOA_L
 ClientSampleId :
 SG3

Tot Ion	Ratio	Lower	Upper
101	100		
103	54.4	52.5	78.7

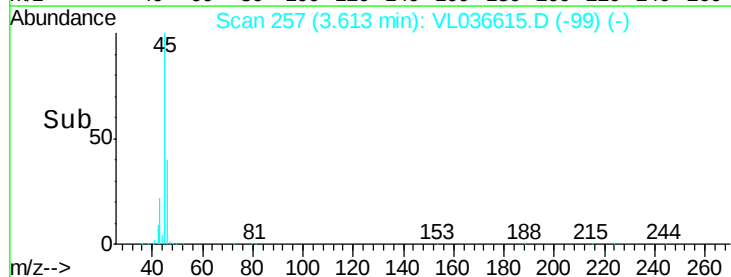
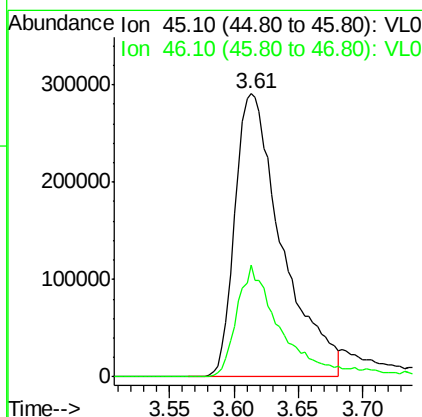
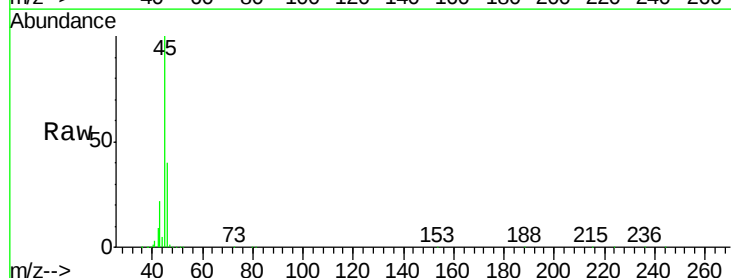
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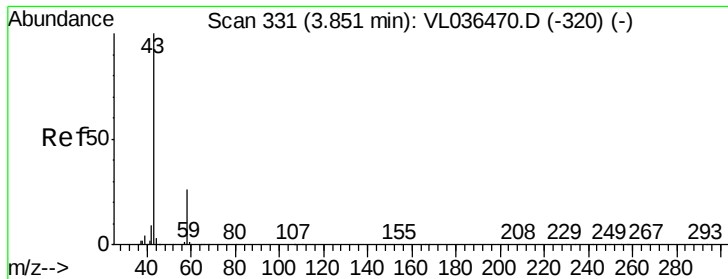
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#13
 Ethanol
 Concen: 76.237 ppbv
 RT: 3.61 min Scan# 257
 Delta R.T. 0.01 min
 Lab File: VL036615.D
 Acq: 1 Apr 2021 00:02

Tgt Ion	Ratio	Lower	Upper
45	100		
46	38.8	16.6	66.2





#15

Acetone

Concen: 9.091 ppbv m

RT: 3.86 min Scan# 333

Delta R.T. 0.01 min

Lab File: VL036615.D

Acq: 1 Apr 2021 00:02

Instrument :

MSVOA_L

ClientSampleId :

SG3

Tot Ion: 43 Resp: 1224269

Ion Ratio Lower Upper

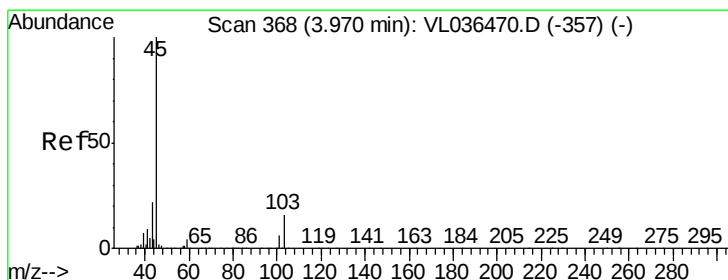
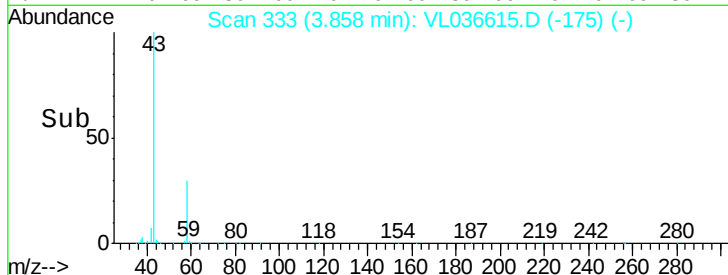
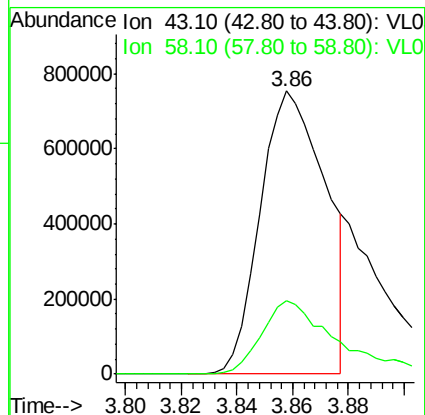
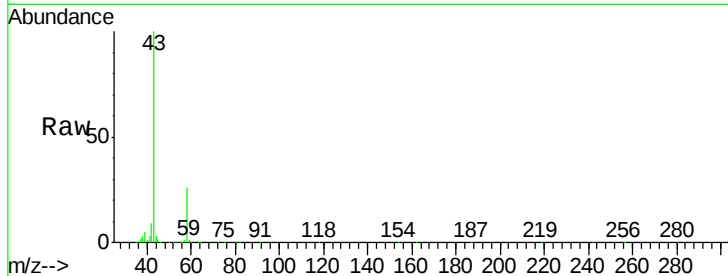
43 100

58 32.2 21.2 31.8#

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4/2/2021 6:53:36 PM



#19

Isopropyl Alcohol

Concen: 6.889 ppbv m

RT: 3.99 min Scan# 374

Delta R.T. 0.02 min

Lab File: VL036615.D

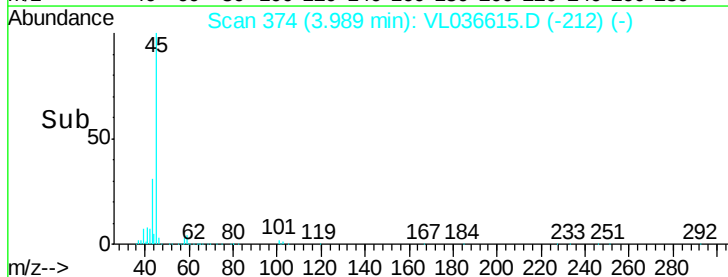
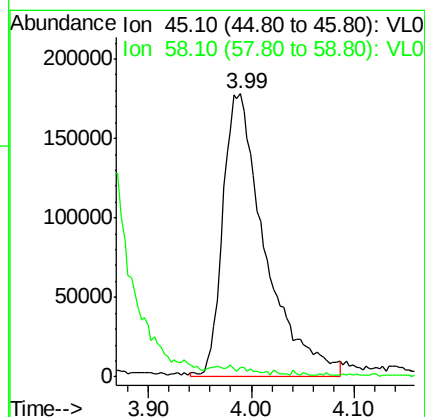
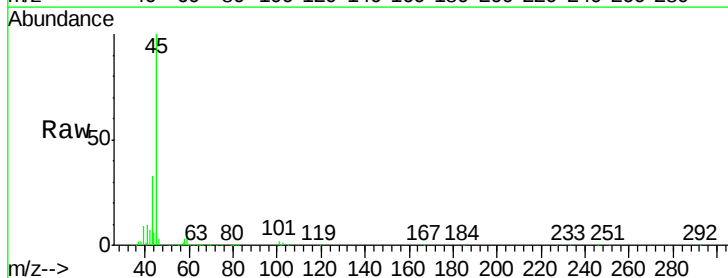
Acq: 1 Apr 2021 00:02

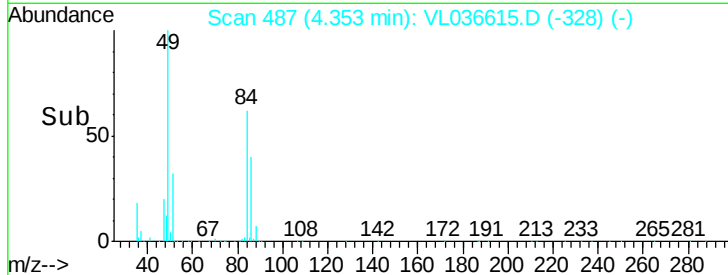
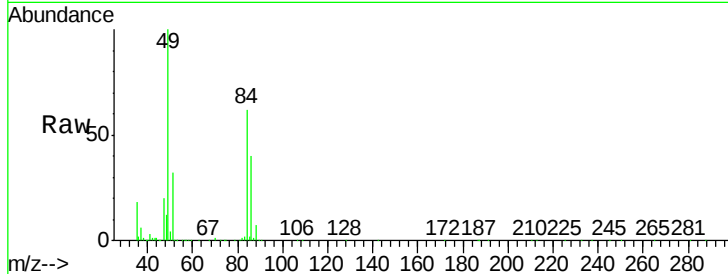
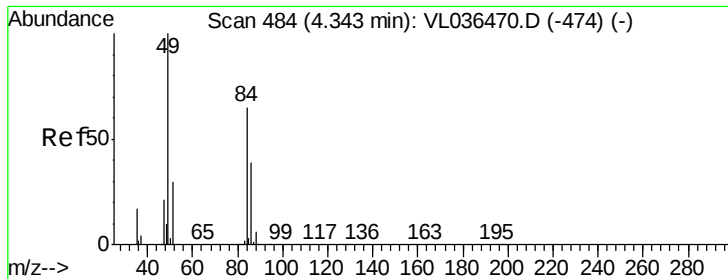
Tgt Ion: 45 Resp: 510311

Ion Ratio Lower Upper

45 100

58 82.0 2.9 4.3#





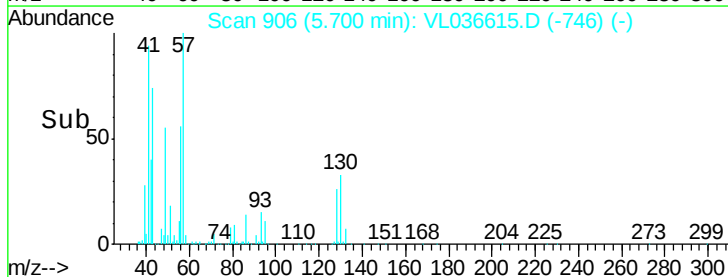
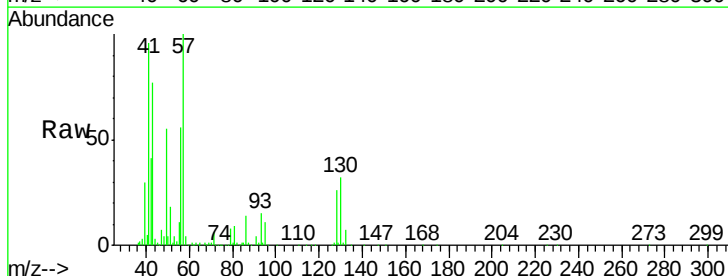
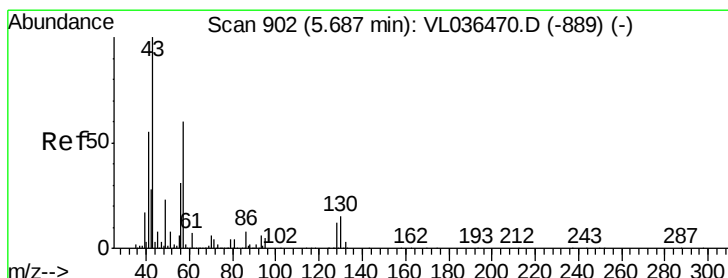
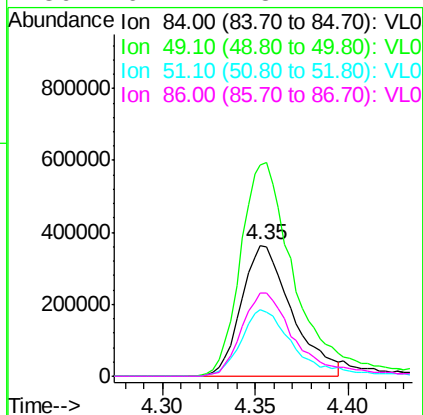
#20
Methvlene Chloride
Concen: 10.878 ppbv
RT: 4.35 min Scan# 487
Delta R.T. 0.01 min
Lab File: VL036615.D
Acq: 1 Apr 2021 00:02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	161.9	122.9	184.3		
51	51.0	36.9	55.3		
86	64.2	48.2	72.4		

Instrument :
MSVOA_L
ClientSampled :
SG3

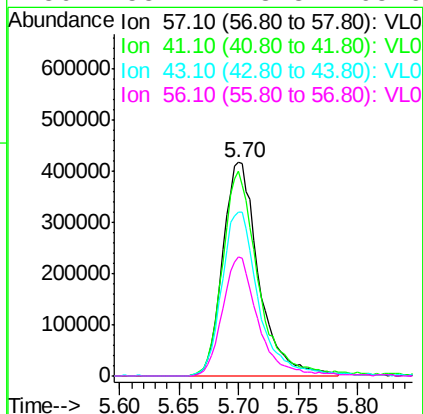
Manual Integrations
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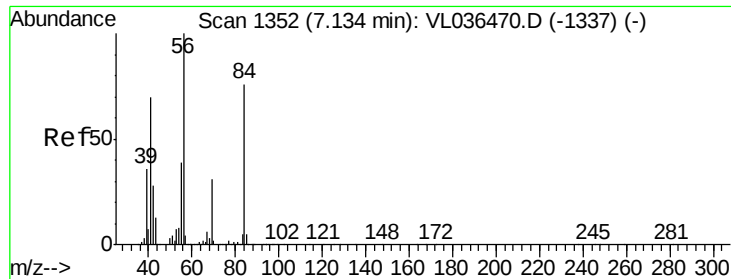
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#26
Hexane
Concen: 5.876 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL036615.D
Acq: 1 Apr 2021 00:02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	95.4	77.2	115.8		
43	79.0	173.8	260.6#		
56	55.7	43.8	65.6		





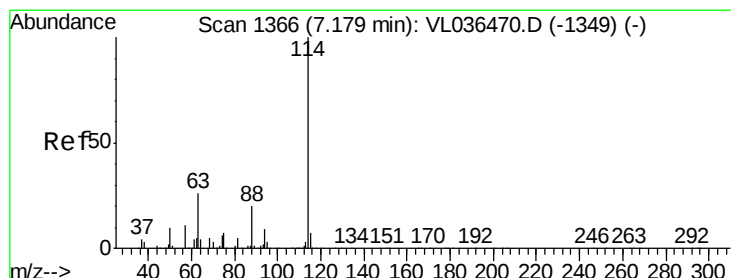
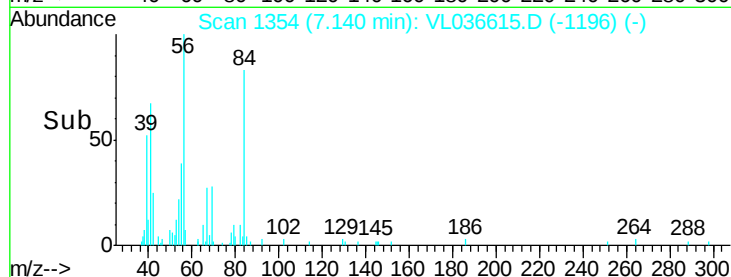
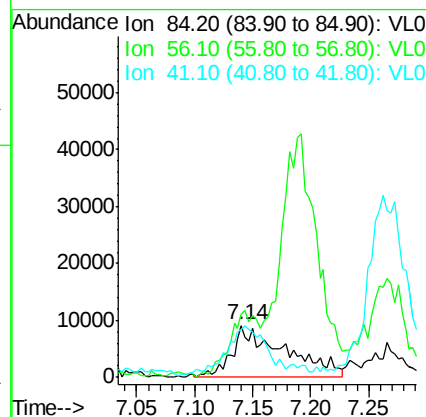
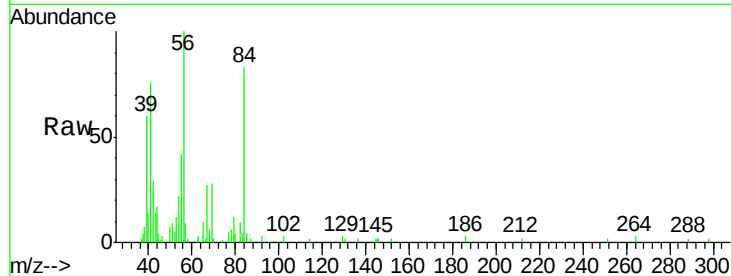
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Cvclohexane
Concen: 0.239 ppbv m
RT: 7.14 min Scan# 1354
Delta R.T. 0.01 min
Lab File: VL036615.D
Acq: 1 Apr 2021 00:02

Instrument :
MSVOA_L
ClientSampled :
SG3

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.6	171.8#
41	80.6	75.3	112.9

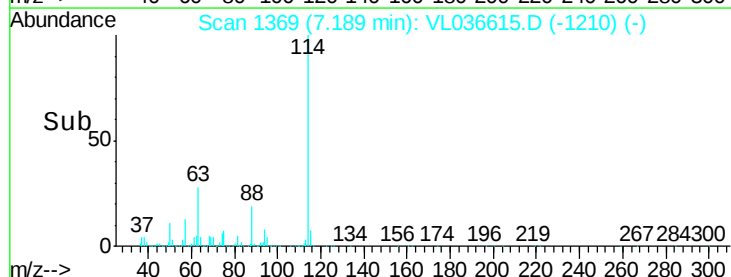
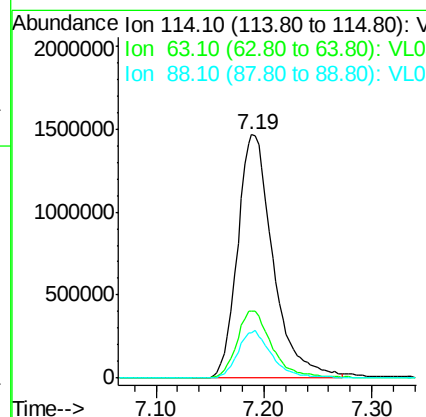
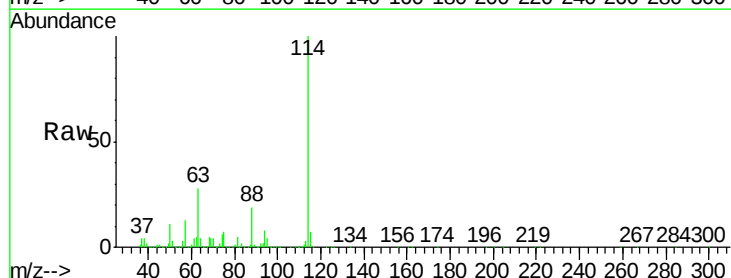
Manual Integrations
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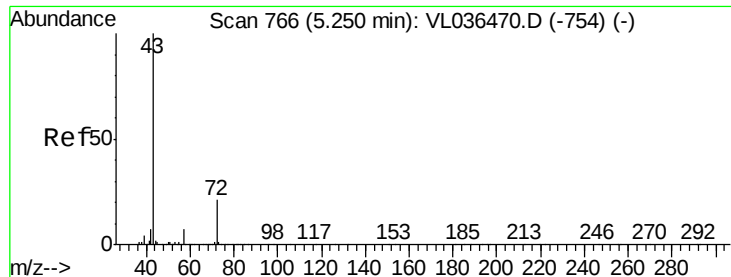
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4/2/2021 6:53:36 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.01 min
Lab File: VL036615.D
Acq: 1 Apr 2021 00:02

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.8	22.4	33.6
88	18.9	15.4	23.0





#34

2-Butanone

Concen: 0.430 ppbv

RT: 5.27 min Scan# 772

Delta R.T. 0.02 min

Lab File: VL036615.D

Acq: 1 Apr 2021 00:02

Instrument :

MSVOA_L

ClientSampleId :

SG3

Tot Ion: 43 Resp: 70443

Ion Ratio Lower Upper

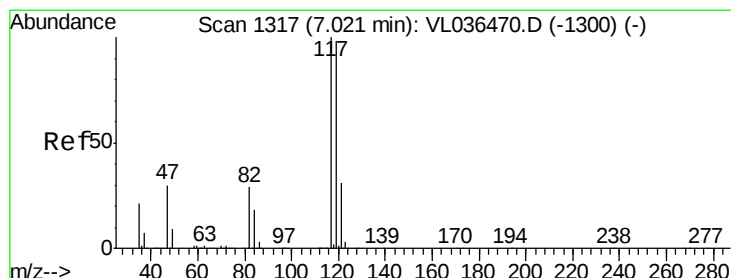
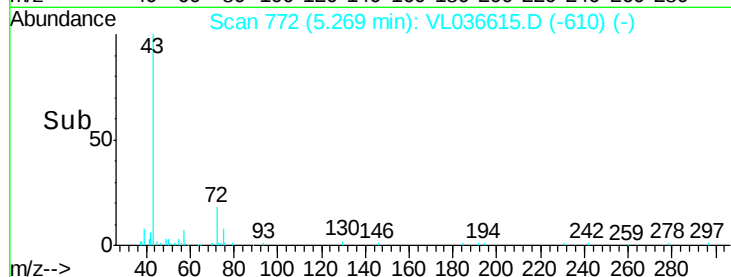
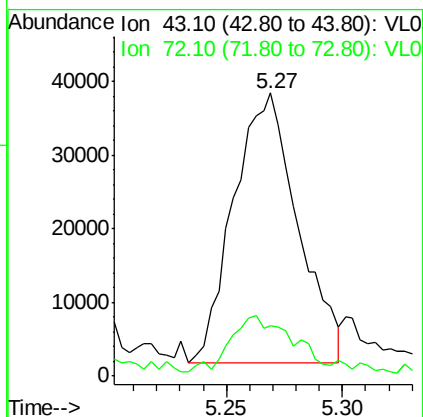
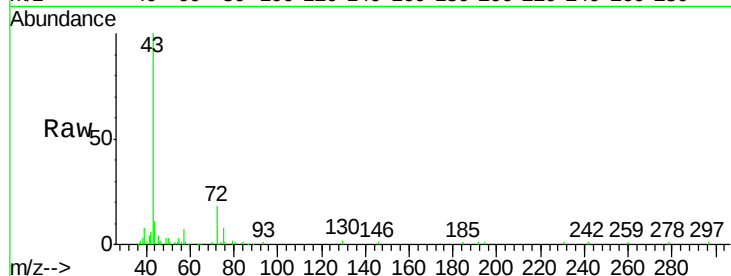
43 100

72 26.2 17.0 25.6#

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4/2/2021 6:53:36 PM



#35

Carbon Tetrachloride

Concen: 0.055 ppbv m

RT: 7.03 min Scan# 1320

Delta R.T. 0.01 min

Lab File: VL036615.D

Acq: 1 Apr 2021 00:02

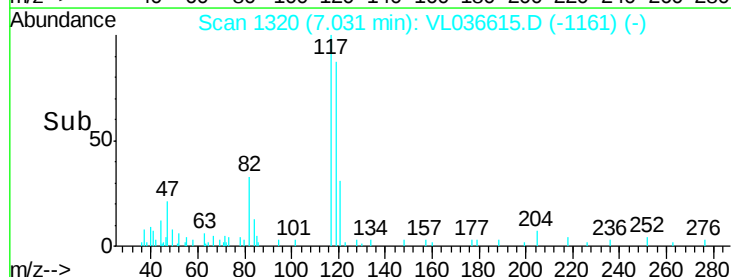
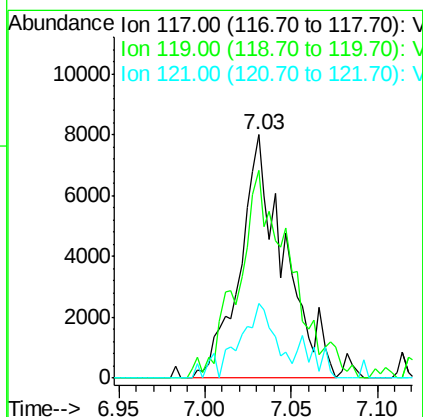
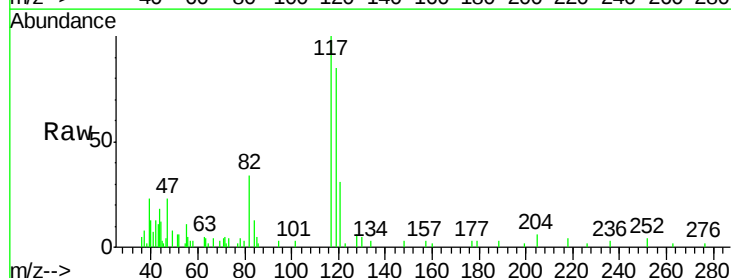
Tgt Ion: 117 Resp: 14268

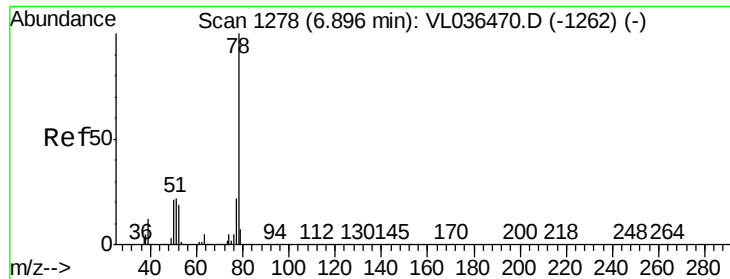
Ion Ratio Lower Upper

117 100

119 85.1 78.2 117.2

121 30.7 24.5 36.7





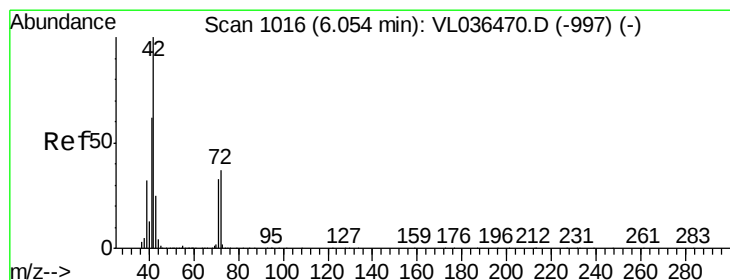
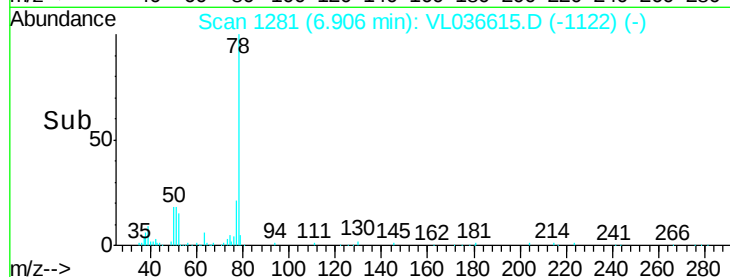
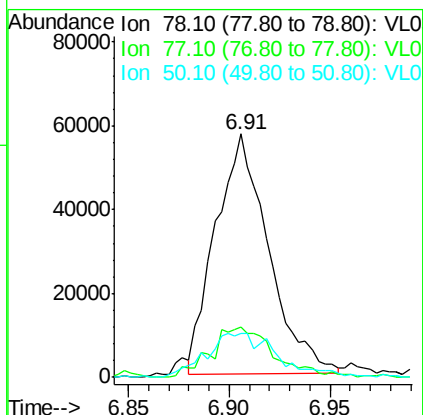
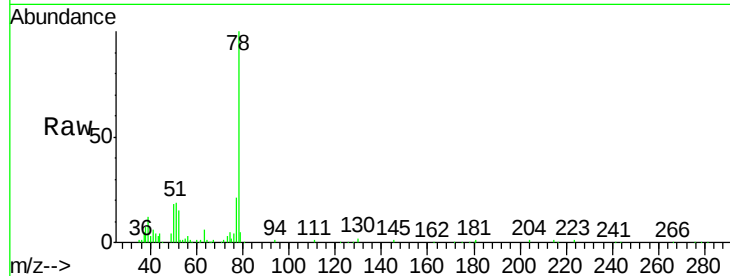
#36
Benzene
Concen: 0.339 ppbv
RT: 6.91 min Scan# 1281
Delta R.T. 0.01 min
Lab File: VL036615.D
Acq: 1 Apr 2021 00:02

Instrument :
MSVOA_L
ClientSampleId :
SG3

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.4	18.0	27.0
50	17.5	16.5	24.7

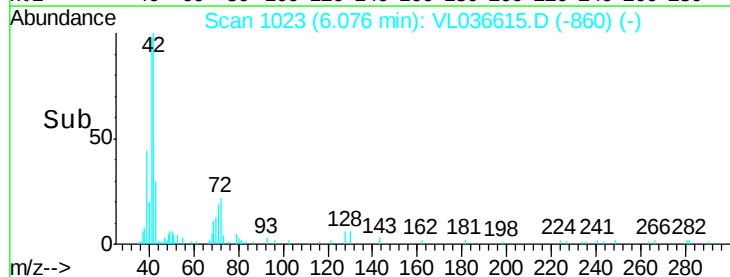
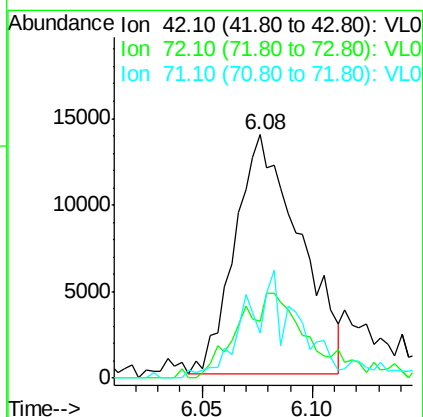
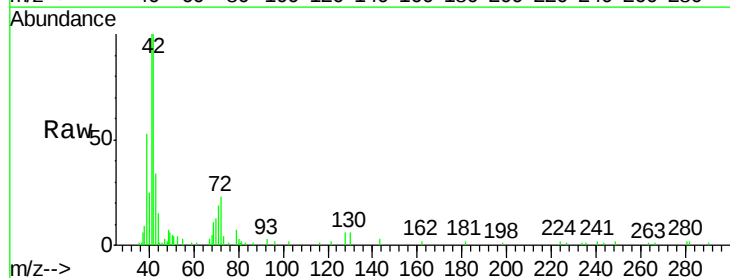
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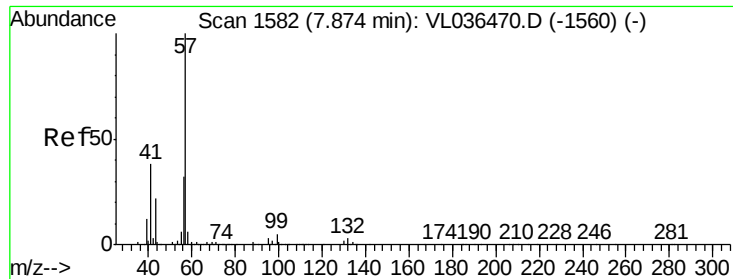
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#41
Tetrahydrofuran
Concen: 0.376 ppbv
RT: 6.08 min Scan# 1023
Delta R.T. 0.02 min
Lab File: VL036615.D
Acq: 1 Apr 2021 00:02

Tgt Ion	Ratio	Lower	Upper
42	100		
72	41.8	27.6	41.4#
71	39.8	27.0	40.4





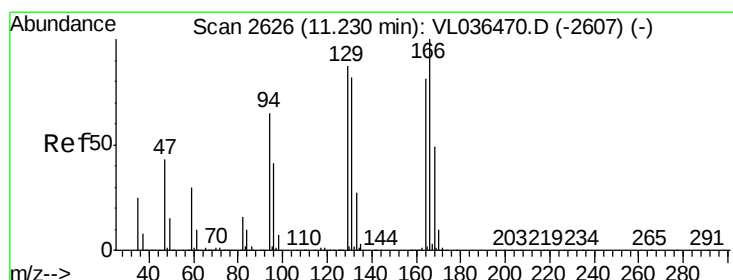
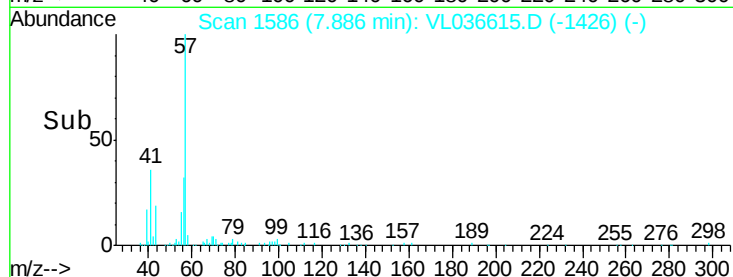
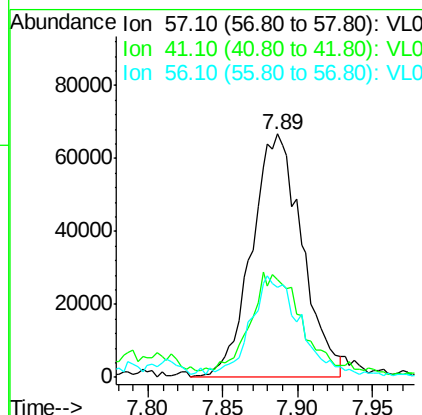
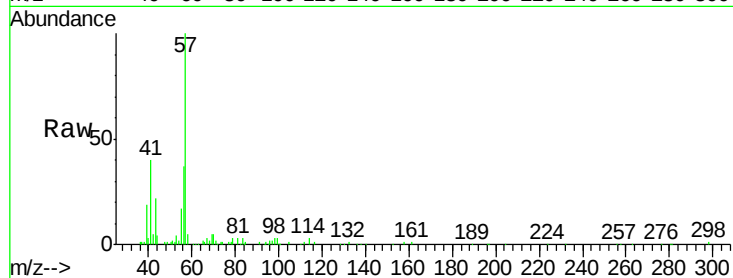
#44
2,2,4-Trimethylpentane
Concen: 0.284 ppbv
RT: 7.89 min Scan# 1586
Delta R.T. 0.01 min
Lab File: VL036615.D
Acq: 1 Apr 2021 00:02

Instrument :
MSVOA_L
ClientSampleId :
SG3

Tot Ion	Ratio	Lower	Upper
57	100		
41	43.3	28.8	43.2#
56	42.3	26.1	39.1#

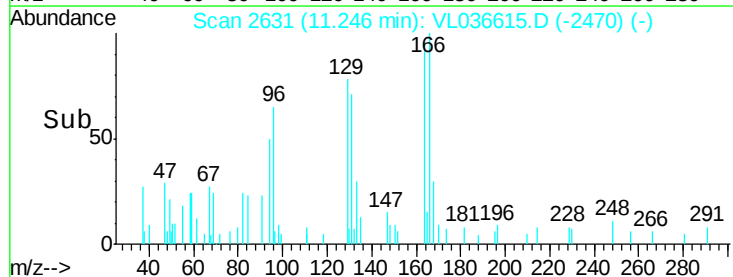
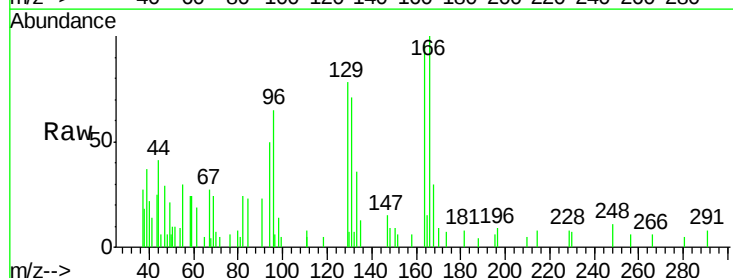
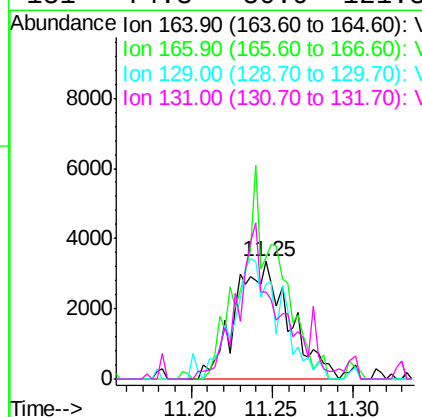
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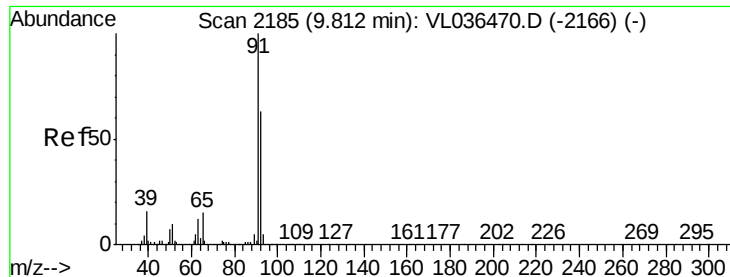
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#52
Tetrachloroethene
Concen: 0.068 ppbv m
RT: 11.25 min Scan# 2631
Delta R.T. 0.02 min
Lab File: VL036615.D
Acq: 1 Apr 2021 00:02

Tgt Ion	Ratio	Lower	Upper
164	100		
166	104.0	98.3	147.5
129	80.7	85.8	128.8#
131	74.3	80.9	121.3#





#53

Toluene

Concen: 1.330 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. 0.01 min

Lab File: VL036615.D

Acq: 1 Apr 2021 00:02

Instrument :

MSVOA_L

ClientSampleId :

SG3

Tot Ion: 91 Resp: 438970

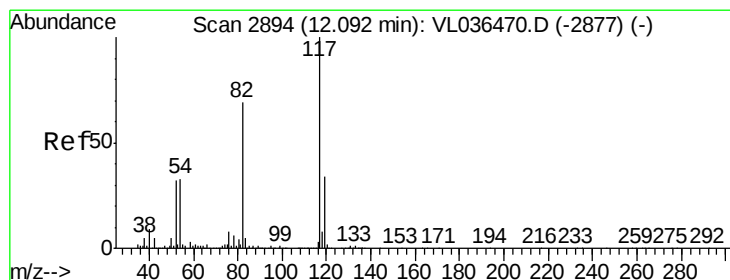
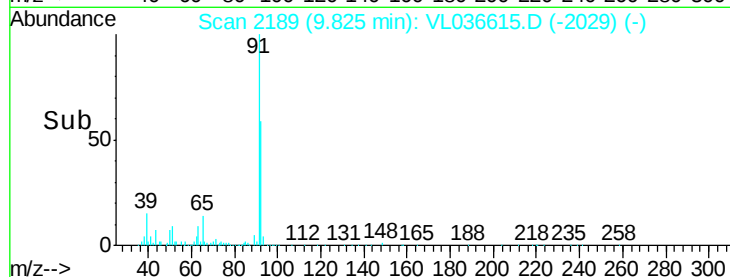
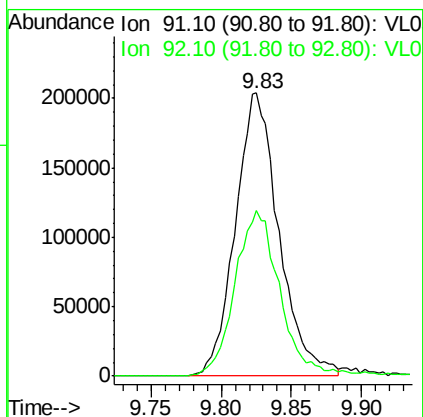
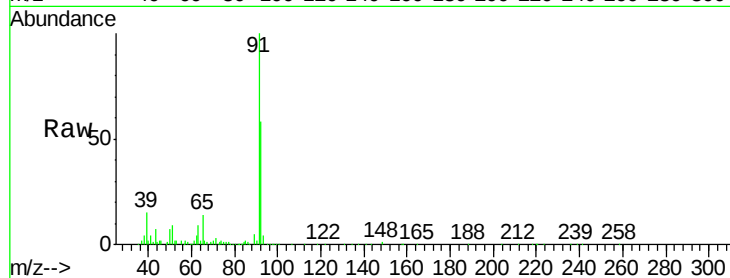
Ion Ratio Lower Upper

91 100

92 61.7 48.8 73.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. 0.02 min

Lab File: VL036615.D

Acq: 1 Apr 2021 00:02

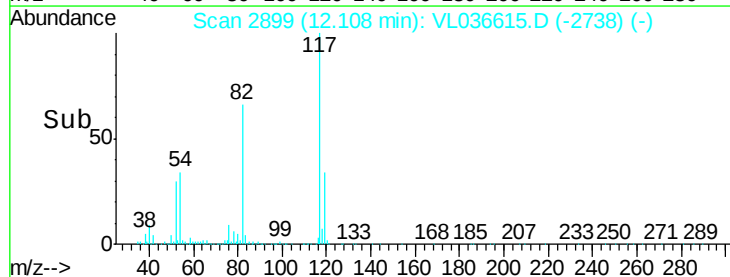
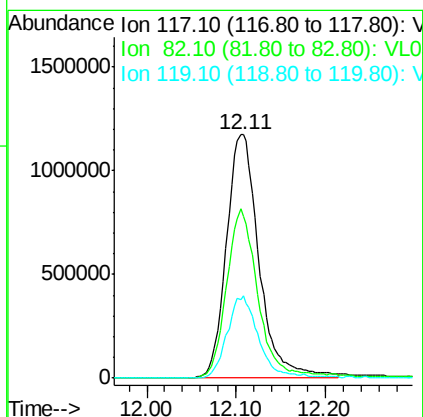
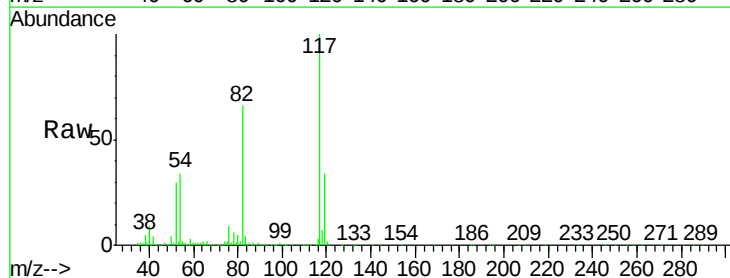
Tgt Ion: 117 Resp: 2983222

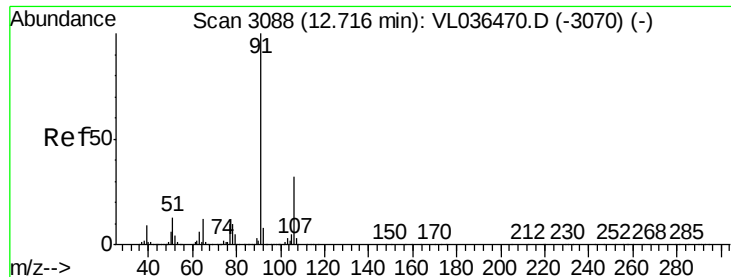
Ion Ratio Lower Upper

117 100

82 67.8 57.4 86.0

119 33.2 47.4 71.0#





#58

Ethyl Benzene

Concen: 0.300 ppbv

RT: 12.73 min Scan# 3093

Delta R.T. 0.02 min

Lab File: VL036615.D

Acq: 1 Apr 2021 00:02

Instrument :

MSVOA_L

ClientSampled :

SG3

Tot Ion: 91 Resp: 130402

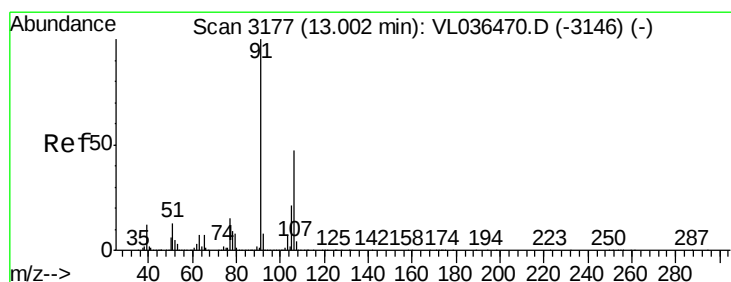
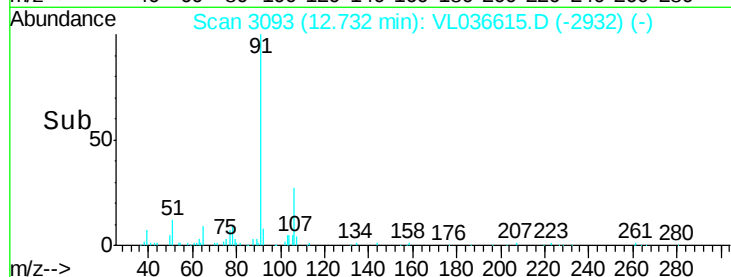
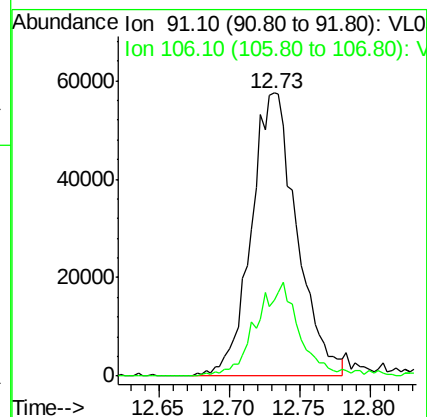
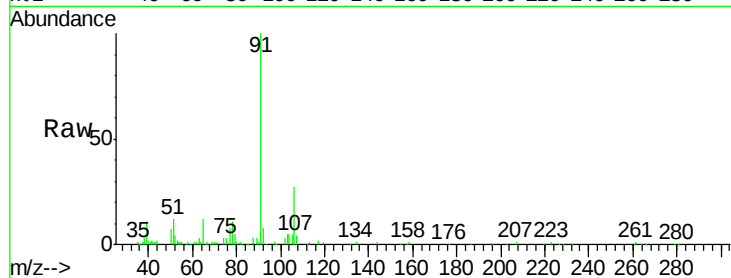
Ion Ratio Lower Upper

91 100

106 27.0 25.3 37.9

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#59

m/p-Xylene

Concen: 1.074 ppbv m

RT: 12.99 min Scan# 3173

Delta R.T. -0.01 min

Lab File: VL036615.D

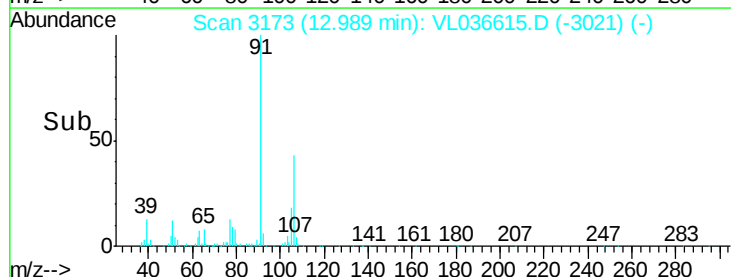
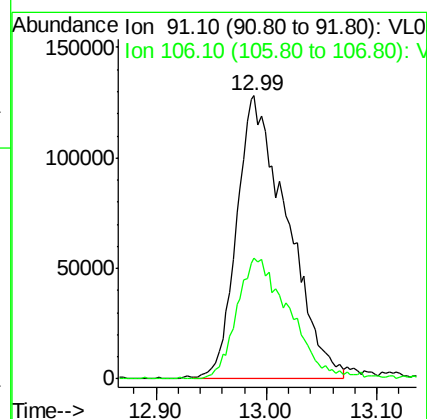
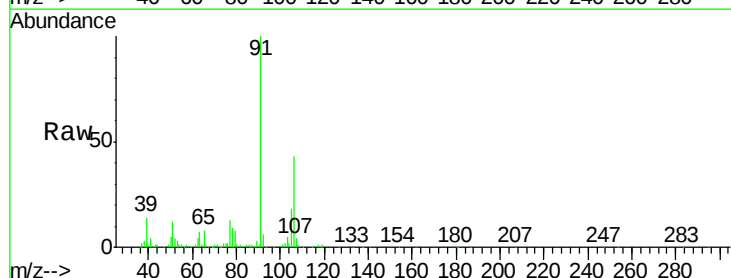
Acq: 1 Apr 2021 00:02

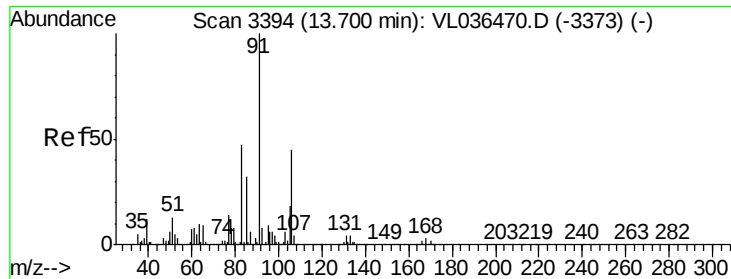
Tgt Ion: 91 Resp: 406456

Ion Ratio Lower Upper

91 100

106 0.0 35.3 52.9#





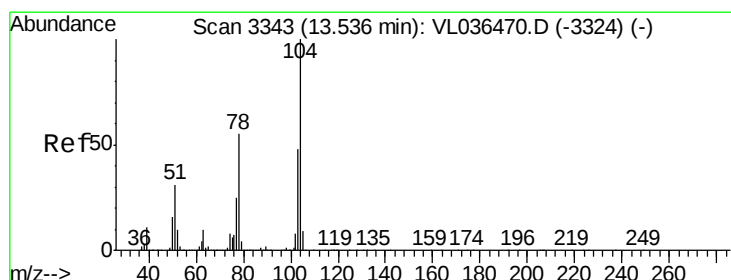
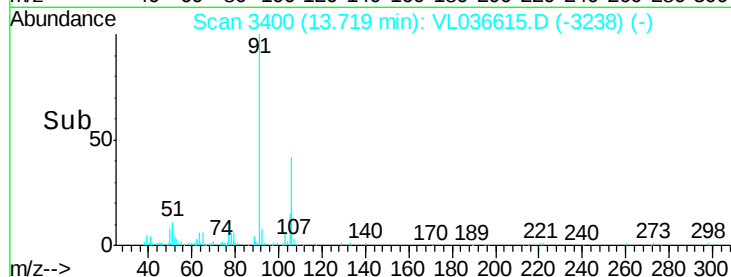
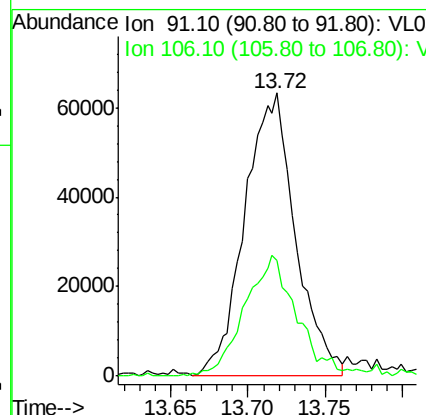
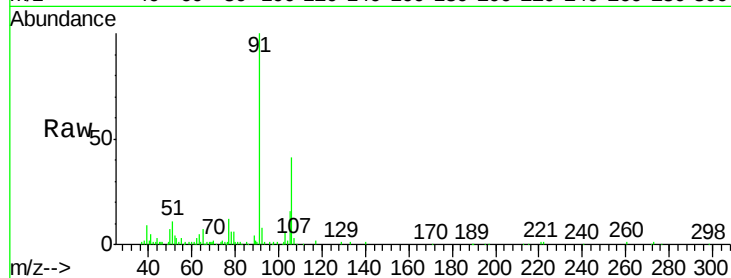
#60
o-Xylene
Concen: 0.391 ppbv
RT: 13.72 min Scan# 3400
Delta R.T. 0.02 min
Lab File: VL036615.D
Acq: 1 Apr 2021 00:02

Instrument :
MSVOA_L
ClientSampled :
SG3

Tot Ion	Ratio	Lower	Upper
91	100		
106	45.1	22.3	66.9

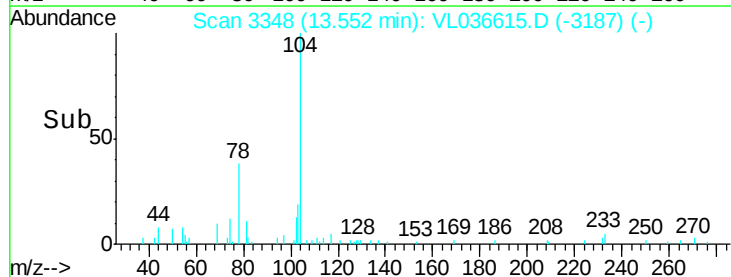
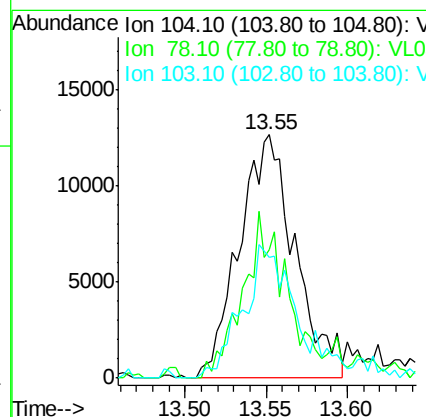
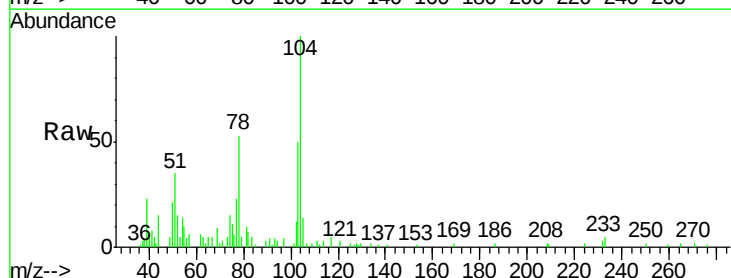
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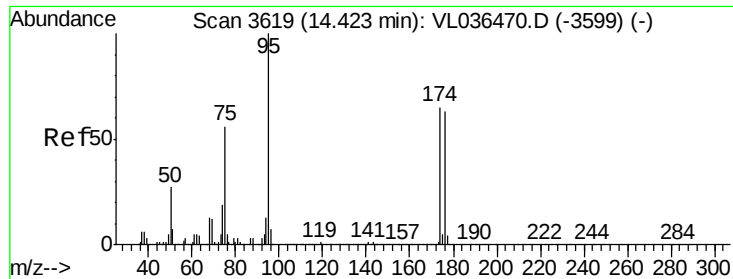
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#61
Styrene
Concen: 0.165 ppbv m
RT: 13.55 min Scan# 3348
Delta R.T. 0.02 min
Lab File: VL036615.D
Acq: 1 Apr 2021 00:02

Tgt Ion	Ratio	Lower	Upper
104	100		
78	0.0	43.8	65.8#
103	0.0	38.3	57.5#





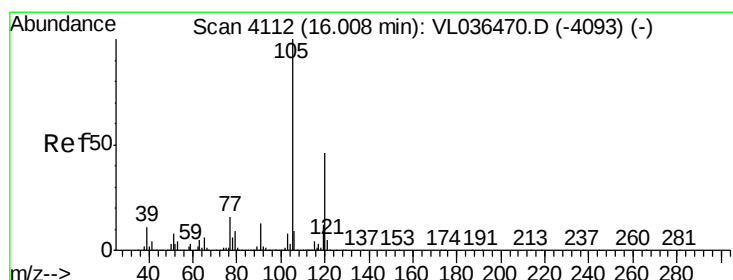
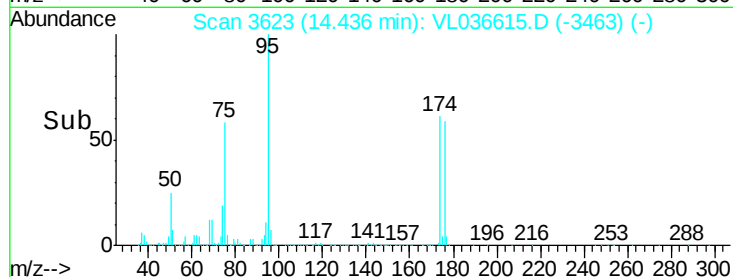
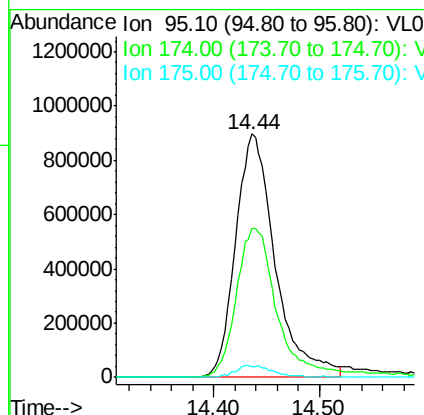
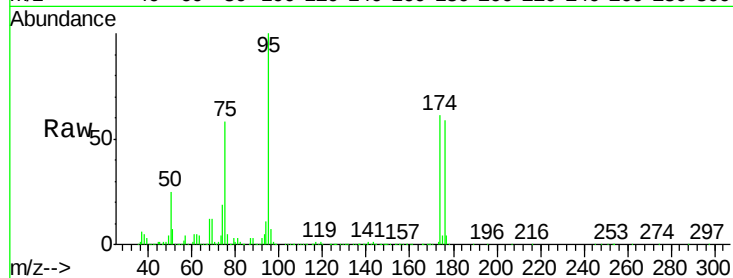
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.842 ppbv
 RT: 14.44 min Scan# 3623
 Delta R.T. 0.01 min
 Lab File: VL036615.D
 Acq: 1 Apr 2021 00:02

Instrument :
 MSVOA_L
 ClientSampled :
 SG3

Tot Ion: 95 Resp: 2340097
 Ion Ratio Lower Upper
 95 100
 174 66.0 51.0 76.6
 175 4.8 3.9 5.9

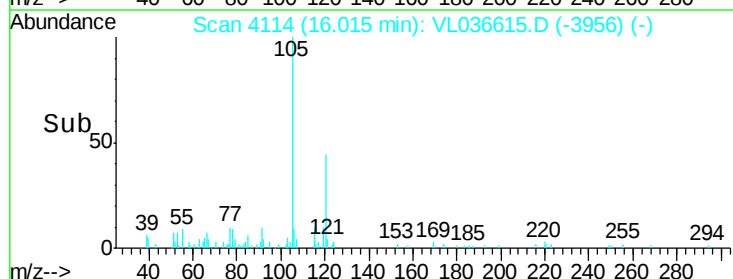
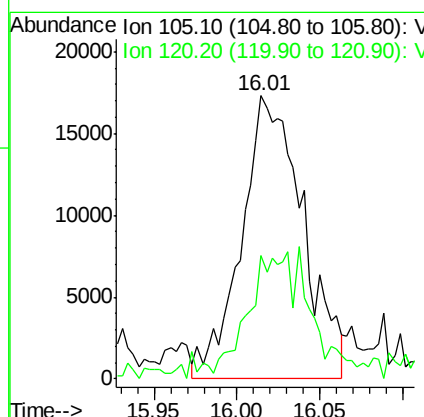
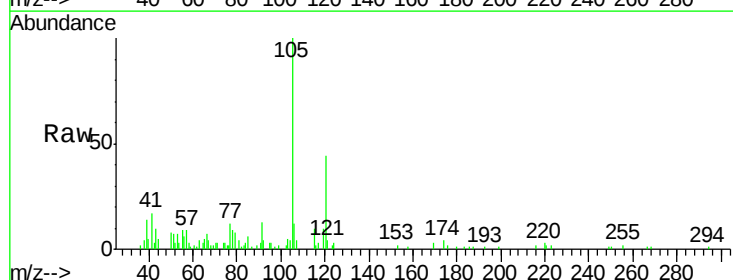
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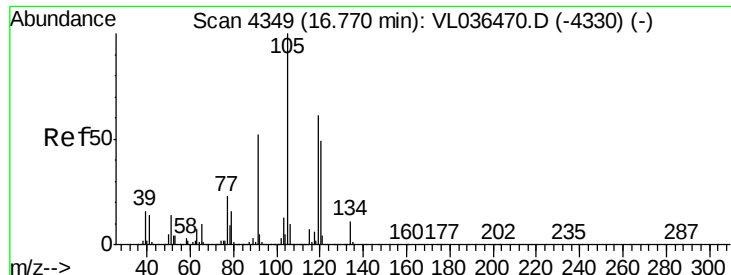
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#73
 1,3,5-Trimethylbenzene
 Concen: 0.119 ppbv m
 RT: 16.01 min Scan# 4114
 Delta R.T. 0.01 min
 Lab File: VL036615.D
 Acq: 1 Apr 2021 00:02

Tgt Ion:105 Resp: 44486
 Ion Ratio Lower Upper
 105 100
 120 43.7 36.6 54.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.485 ppbv
 RT: 16.79 min Scan# 4355
 Delta R.T. 0.02 min
 Lab File: VL036615.D
 Acq: 1 Apr 2021 00:02

Instrument :
 MSVOA_L
 ClientSampleId :
 SG3

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	43.5	39.2	58.8
91	11.9	42.6	64.0#
77	12.6	18.6	28.0#

Manual Integrations
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