

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112420\
 Data File : VL036023.D
 Acq On : 25 Nov 2020 9:53
 Operator : SY/AP
 Sample : L4883-03 2X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
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 11/27/2020 1:17:26 PM

Quant Time: Nov 26 14:49:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 0
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1195242	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	4172732	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	4100627	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	3227392	11.08	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	39782	0.177	ppbv	89
4) Chloromethane	3.11	50	8656	0.124	ppbv	95
9) Propene	3.00	41	38035	0.726	ppbv	96
11) Trichlorofluoromethane	3.93	101	38613	0.137	ppbv	96
13) Ethanol	3.58	45	460436	40.512	ppbv	97
15) Acetone	3.82	43	3115776	24.383	ppbv	97
17) tert-Butyl alcohol	4.29	59	51583m	0.305	ppbv	
19) Isopropyl Alcohol	3.95	45	229182	2.919	ppbv #	90
20) Methylene Chloride	4.32	84	548302	6.095	ppbv	99
26) Hexane	5.66	57	266942	1.923	ppbv #	46
34) 2-Butanone	5.22	43	394256	2.911	ppbv	98
35) Carbon Tetrachloride	7.00	117	6775m	0.030	ppbv	
36) Benzene	6.87	78	83871	0.270	ppbv	97
51) 2-Hexanone	10.12	43	21462	0.129	ppbv #	99
52) Tetrachloroethene	11.20	164	18645	0.127	ppbv	96
53) Toluene	9.78	91	289078	0.772	ppbv	97
58) Ethyl Benzene	12.69	91	131794	0.264	ppbv	90
59) m/p-Xylene	12.95	91	323609	0.766	ppbv	99
60) o-Xylene	13.67	91	188406	0.458	ppbv	94
61) Styrene	13.51	104	33564	0.111	ppbv #	82
70) n-Butylbenzene	18.56	91	434564	0.690	ppbv	95
72) 4-Ethyltoluene	15.82	105	86368	0.173	ppbv #	86
73) 1,3,5-Trimethylbenzene	15.98	105	61868	0.136	ppbv	87
74) 1,2,4-Trimethylbenzene	16.75	105	239328	0.490	ppbv #	66

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

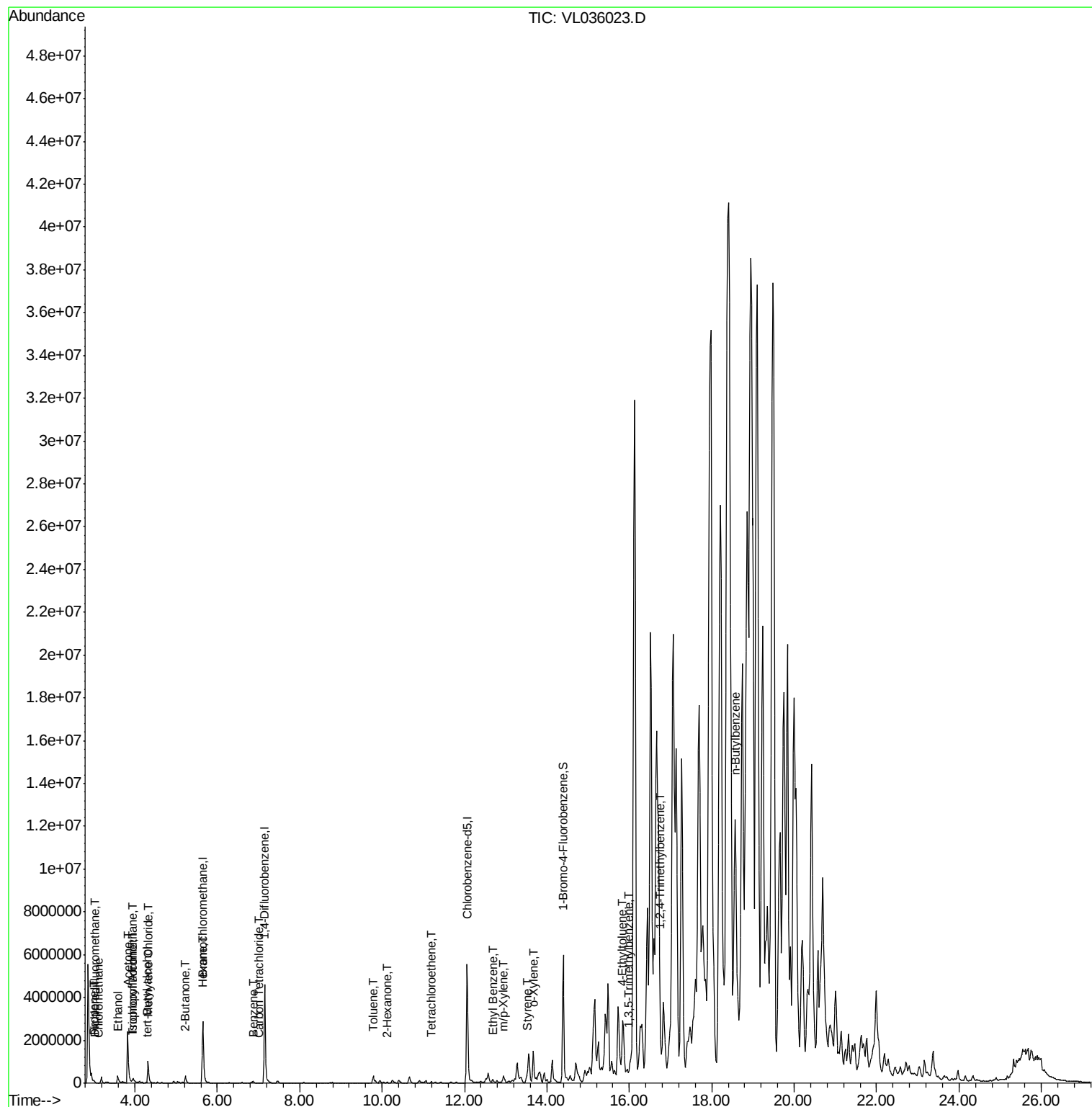
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL112420\
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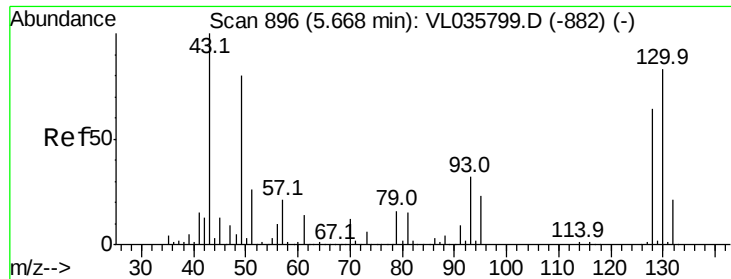
Instrument :
MSVOA_L
ClientSampleId :
SV1

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Quant Time: Nov 26 14:49:00 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.03 min

Lab File: VL036023.D

Acq: 25 Nov 2020 9:53

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tot Ion: 49 Resp: 1195242

Ion Ratio Lower Upper

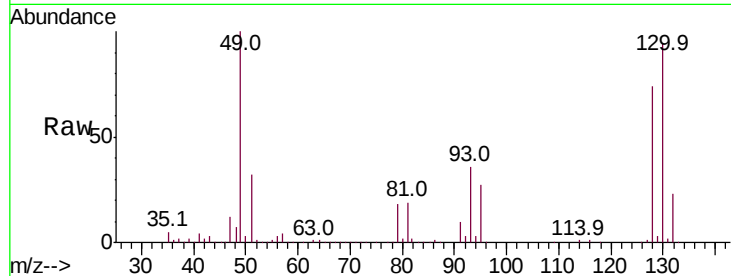
49 100

128 75.7 41.5 124.6

130 97.6 53.7 161.1

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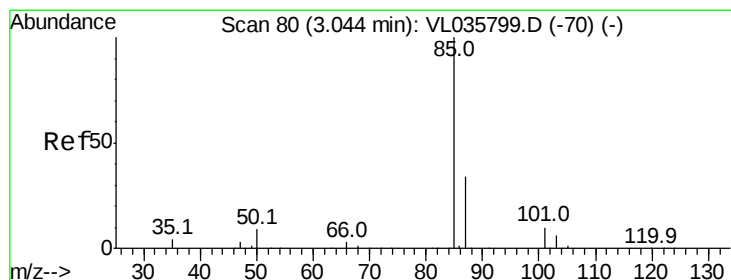
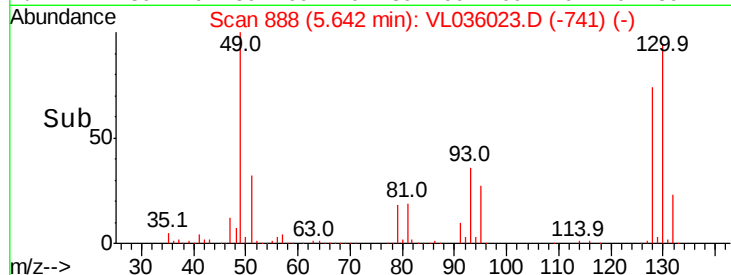
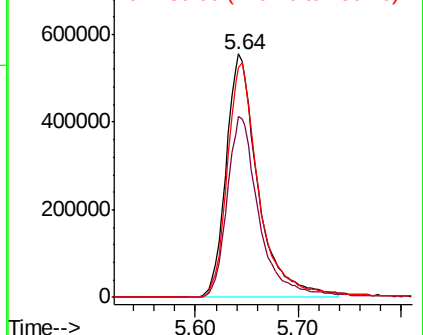
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.177 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.02 min

Lab File: VL036023.D

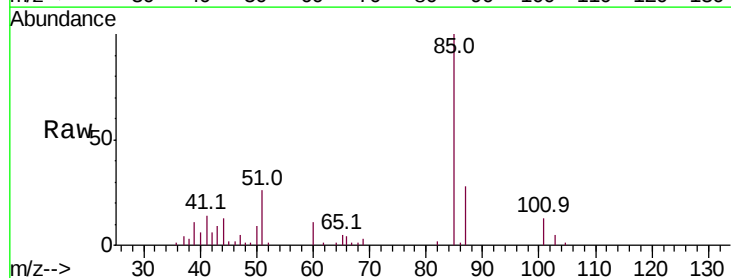
Acq: 25 Nov 2020 9:53

Tgt Ion: 85 Resp: 39782

Ion Ratio Lower Upper

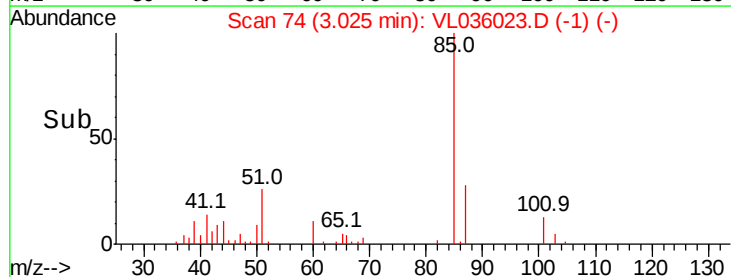
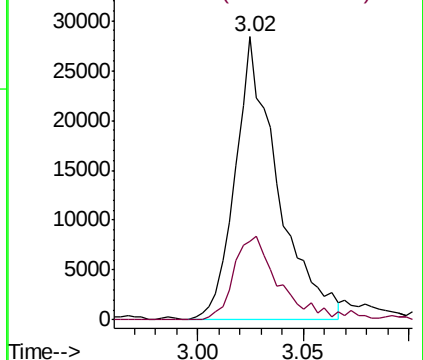
85 100

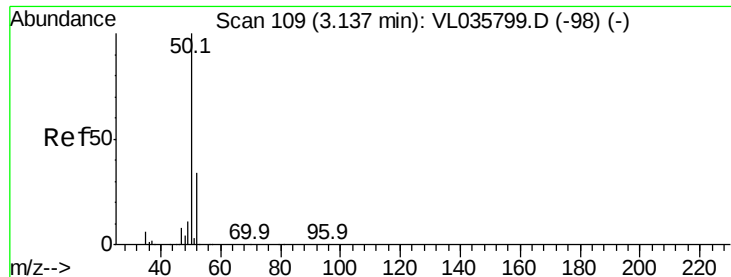
87 27.8 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.124 ppbv

RT: 3.11 min Scan# 102

Delta R.T. -0.02 min

Lab File: VL036023.D

Acq: 25 Nov 2020 9:53

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tot Ion: 50 Resp: 8656

Ion Ratio Lower Upper

50 100

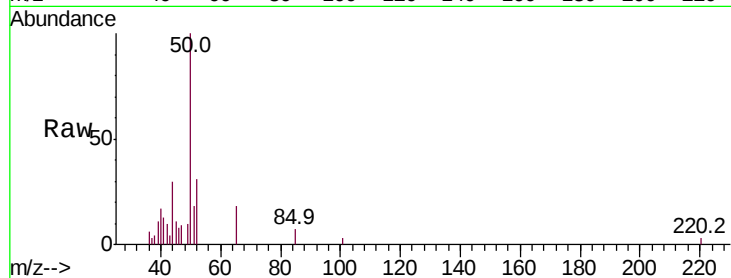
52 30.8 27.1 40.7

Manual Integrations

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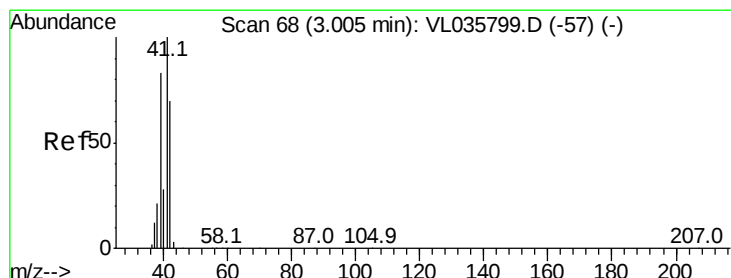
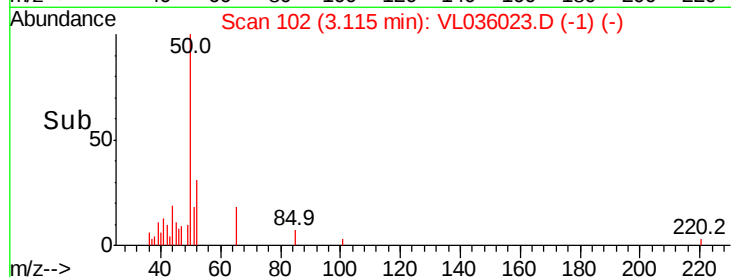
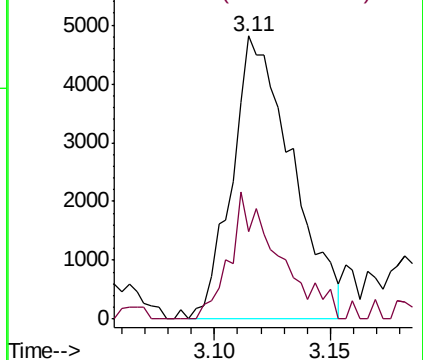
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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.726 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL036023.D

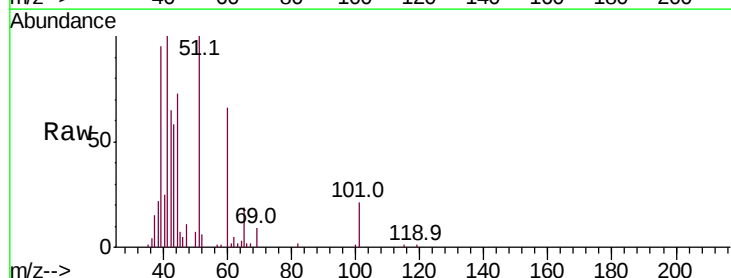
Acq: 25 Nov 2020 9:53

Tgt Ion: 41 Resp: 38035

Ion Ratio Lower Upper

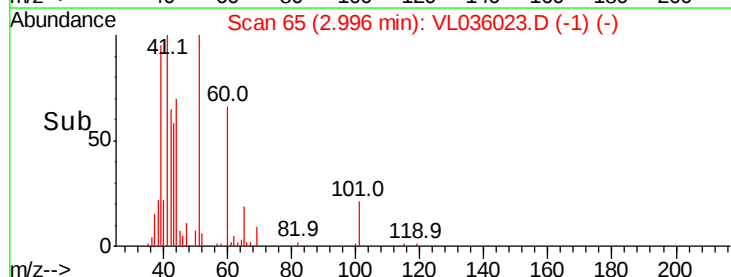
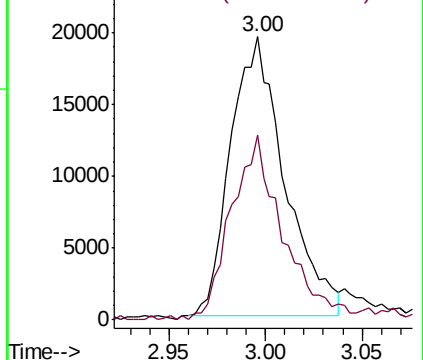
41 100

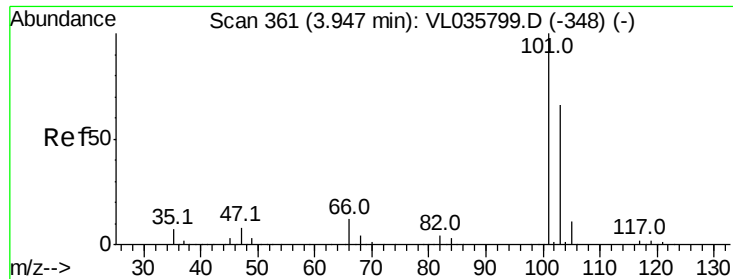
42 66.7 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





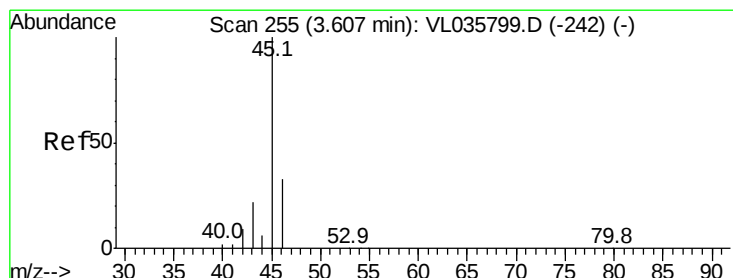
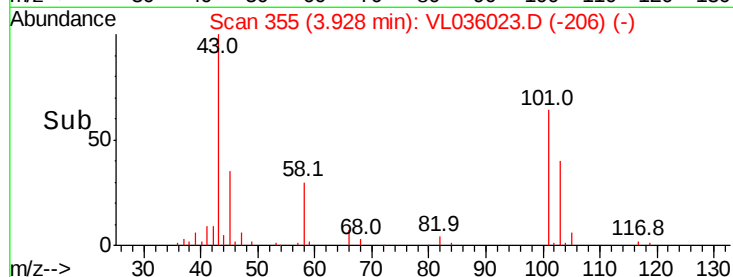
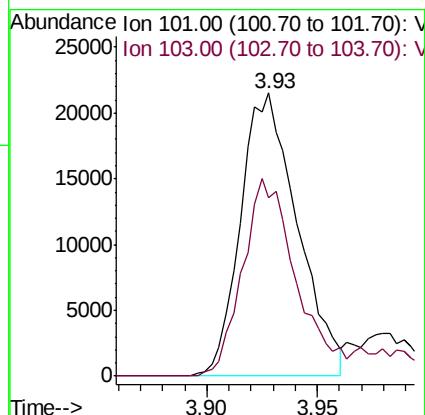
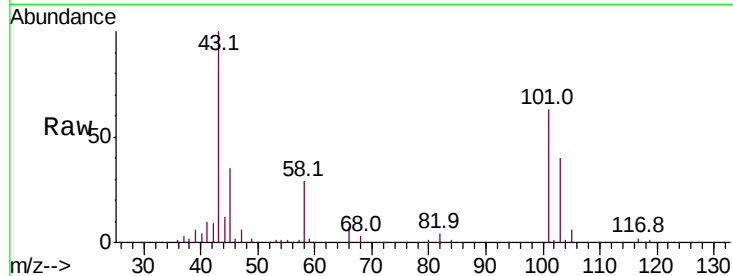
#11
Trichlorofluoromethane
Concen: 0.137 ppbv
RT: 3.93 min Scan# 355
Delta R.T. -0.02 min
Lab File: VL036023.D
Acq: 25 Nov 2020 9:53

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion:101 Resp: 38613
Ion Ratio Lower Upper
101 100
103 63.1 53.0 79.4

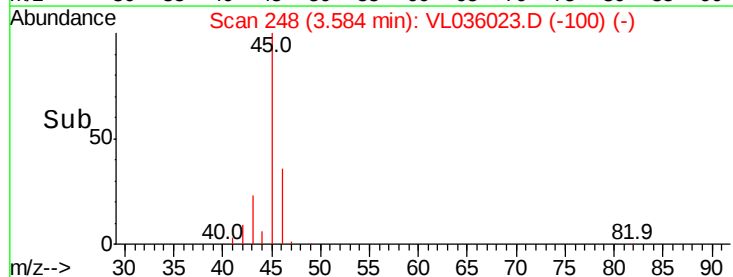
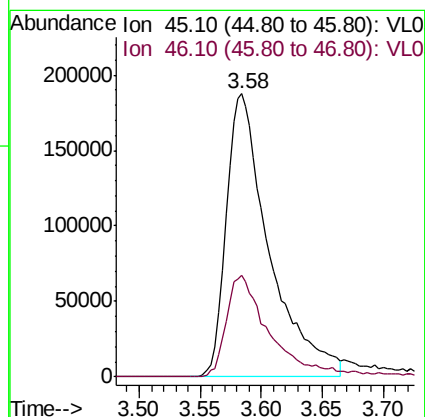
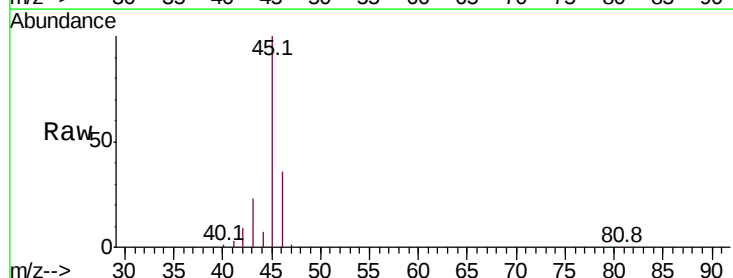
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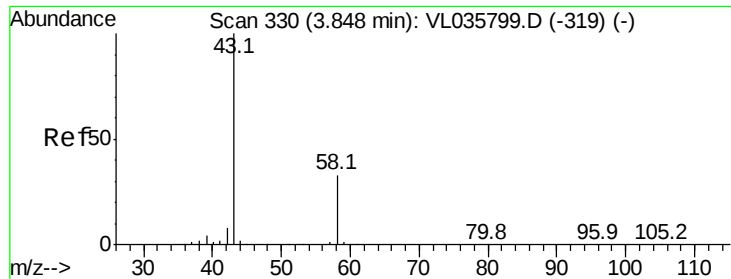
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#13
Ethanol
Concen: 40.512 ppbv
RT: 3.58 min Scan# 248
Delta R.T. -0.02 min
Lab File: VL036023.D
Acq: 25 Nov 2020 9:53

Tgt Ion: 45 Resp: 460436
Ion Ratio Lower Upper
45 100
46 38.3 16.1 64.5





#15

Acetone

Concen: 24.383 ppbv

RT: 3.82 min Scan# 322

Delta R.T. -0.03 min

Lab File: VL036023.D

Acq: 25 Nov 2020 9:53

Instrument :

MSVOA_L

ClientSampled :

SV1

Tot Ion: 43 Resp: 3115776

Ion Ratio Lower Upper

43 100

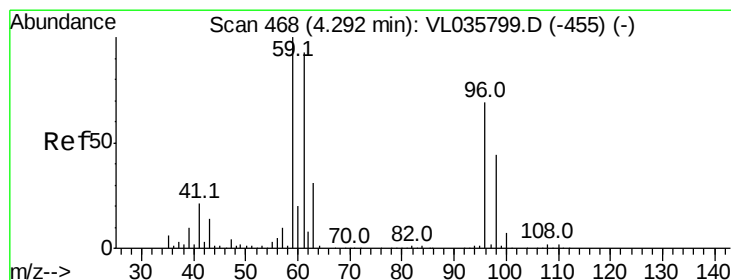
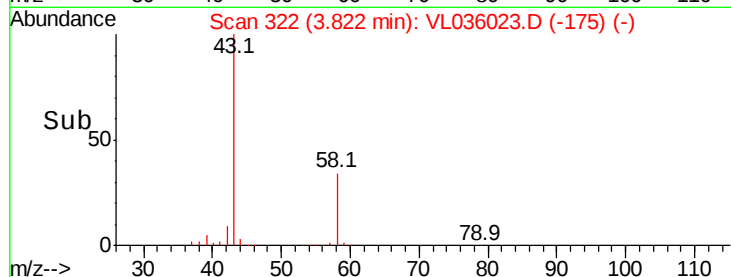
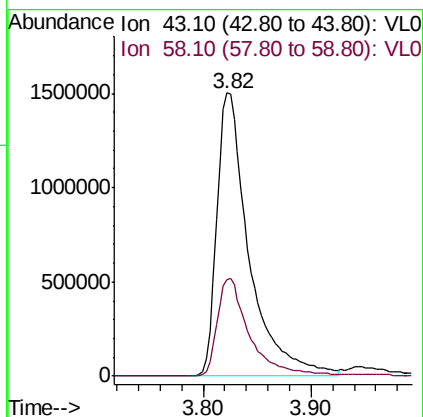
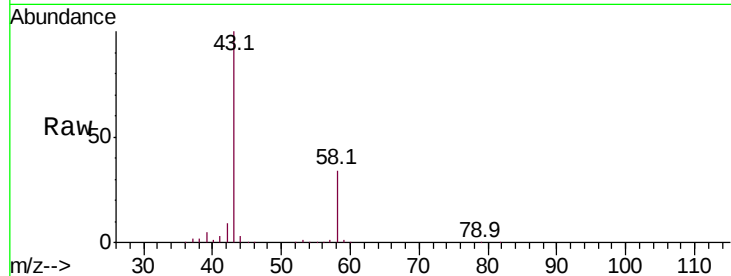
58 35.9 27.5 41.3

Manual Integrations

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#17

tert-Butyl alcohol

Concen: 0.305 ppbv m

RT: 4.29 min Scan# 466

Delta R.T. -0.01 min

Lab File: VL036023.D

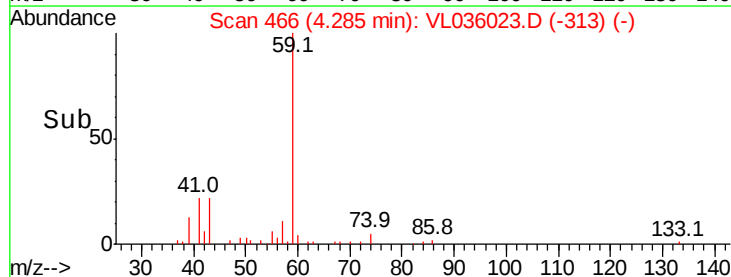
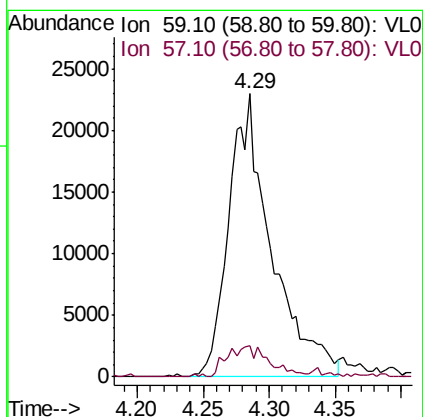
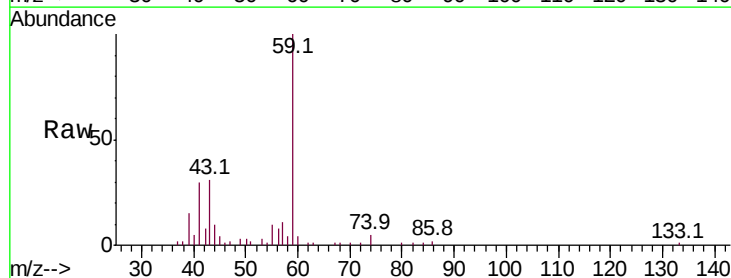
Acq: 25 Nov 2020 9:53

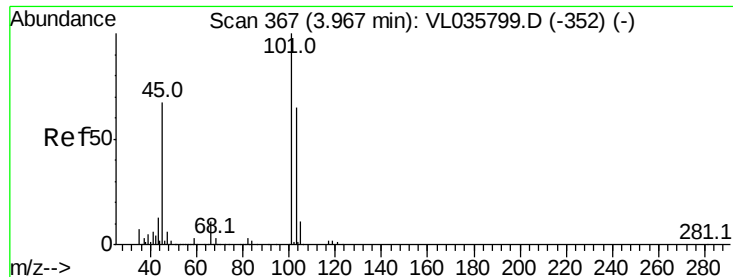
Tgt Ion: 59 Resp: 51583

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#





#19

Isopropyl Alcohol

Concen: 2.919 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.02 min

Lab File: VL036023.D

Acq: 25 Nov 2020 9:53

Instrument :

MSVOA_L

ClientSampled :

SV1

Tot Ion: 45 Resp: 229182

Ion Ratio Lower Upper

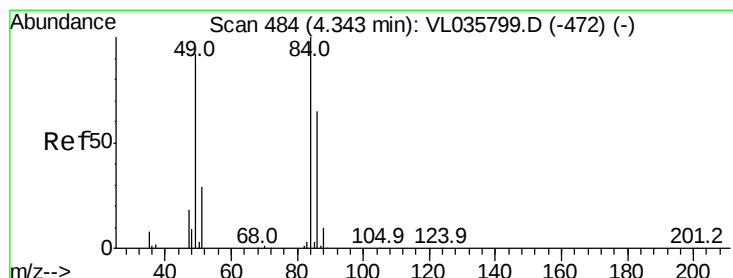
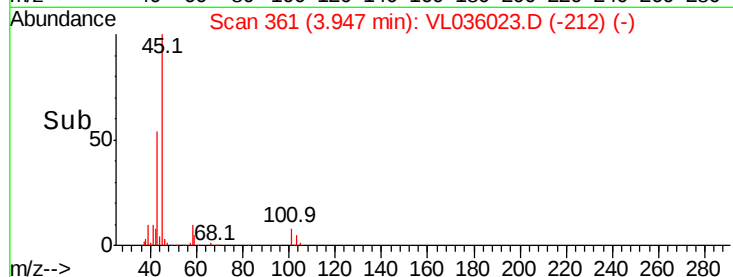
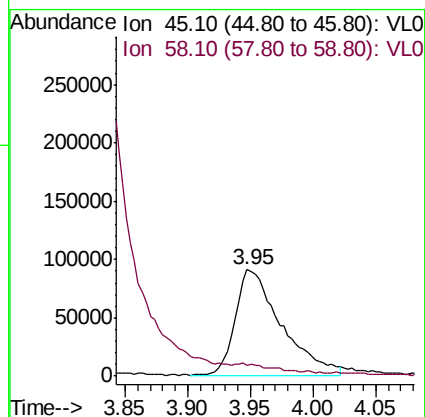
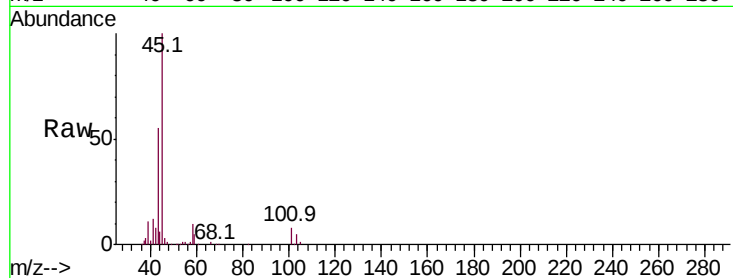
45 100

58 0.0 2.6 3.8#

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#20

Methylene Chloride

Concen: 6.095 ppbv

RT: 4.32 min Scan# 477

Delta R.T. -0.02 min

Lab File: VL036023.D

Acq: 25 Nov 2020 9:53

Tgt Ion: 84 Resp: 548302

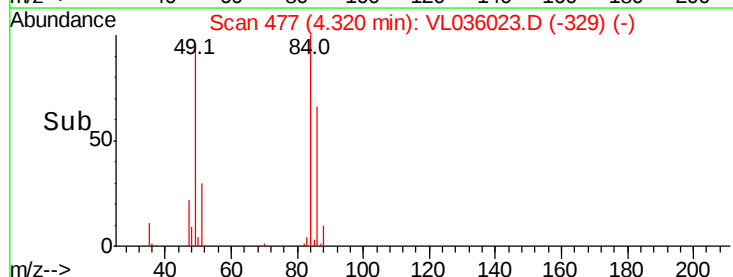
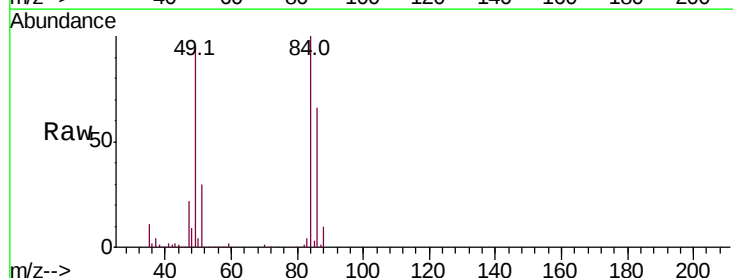
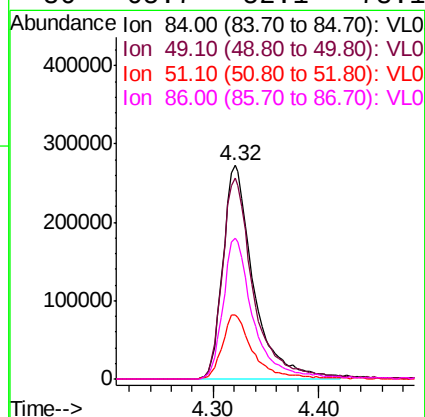
Ion Ratio Lower Upper

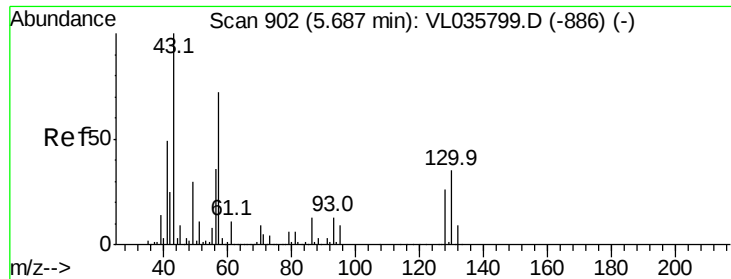
84 100

49 93.8 73.8 110.8

51 29.8 23.0 34.4

86 65.7 52.1 78.1





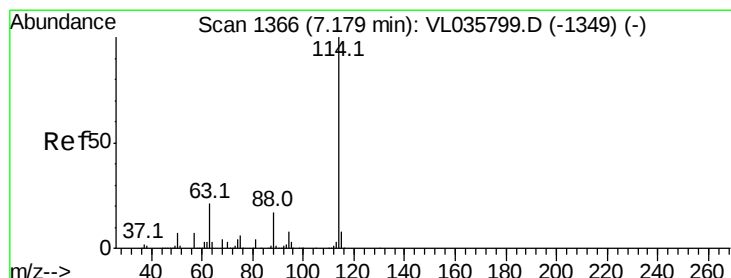
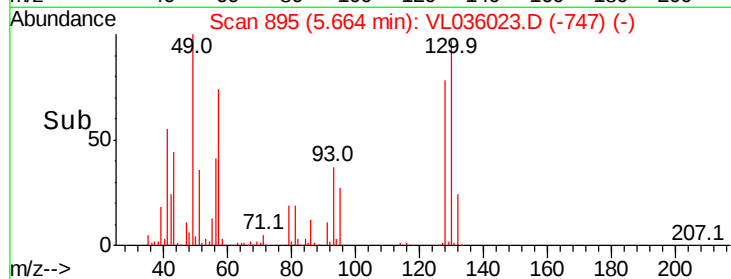
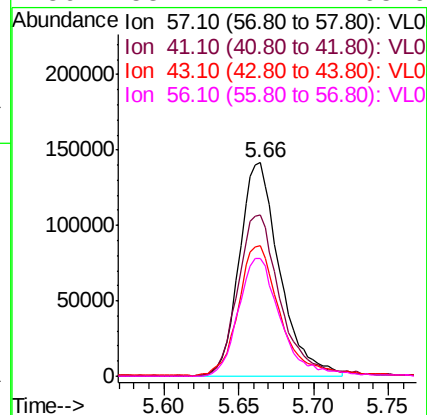
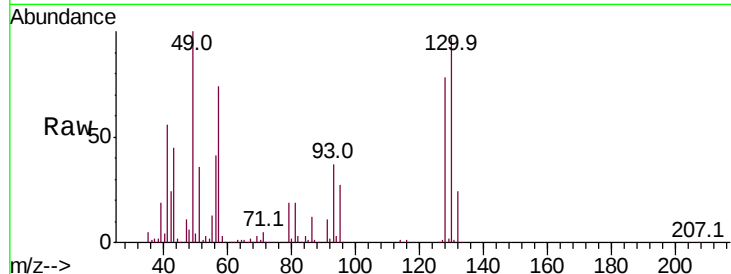
#26
Hexane
Concen: 1.923 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL036023.D
Acq: 25 Nov 2020 9:53

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tot Ion	Ratio	Lower	Upper
57	100		
41	80.4	58.9	88.3
43	63.1	150.2	225.2#
56	58.1	42.4	63.6

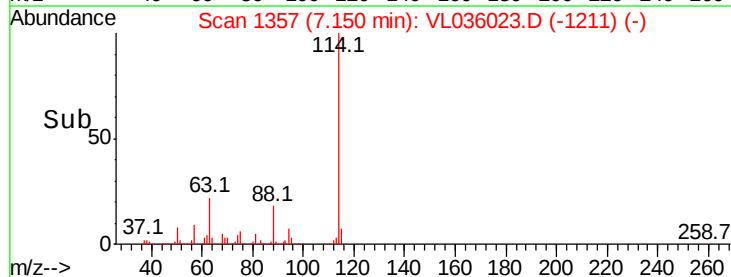
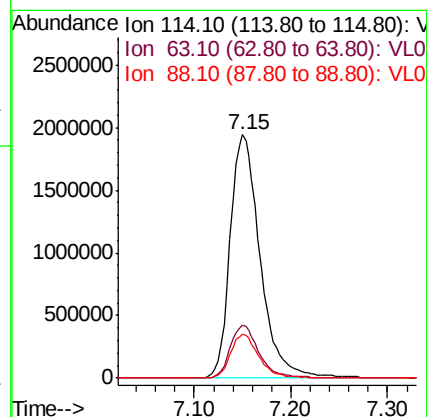
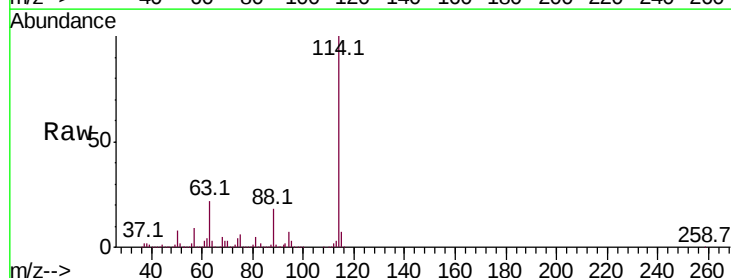
Manual Integrations
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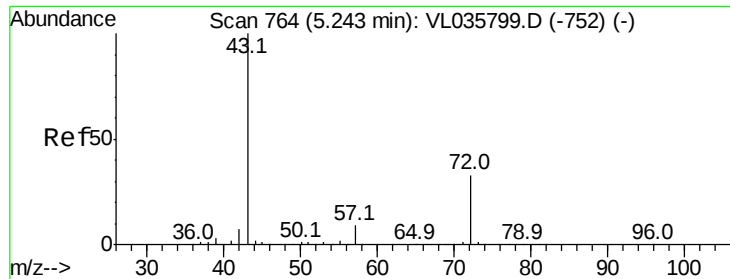
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. -0.03 min
Lab File: VL036023.D
Acq: 25 Nov 2020 9:53

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.3	16.1	24.1
88	17.5	13.7	20.5





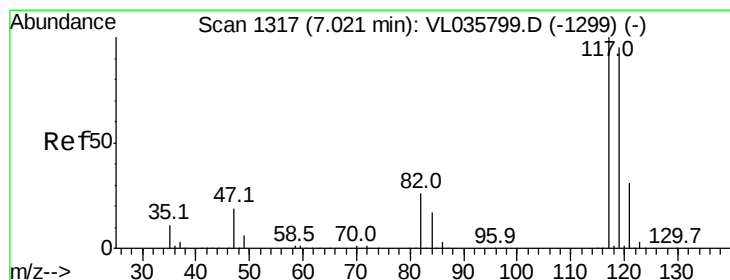
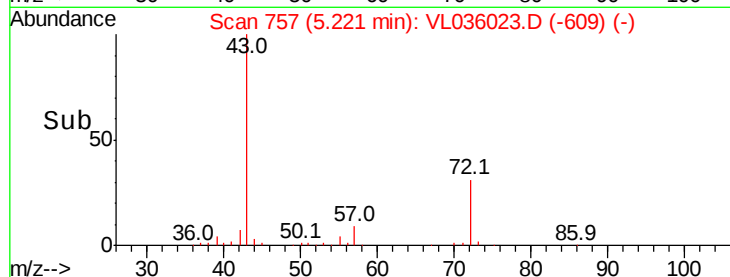
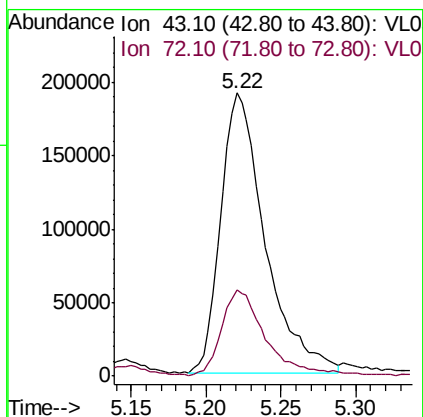
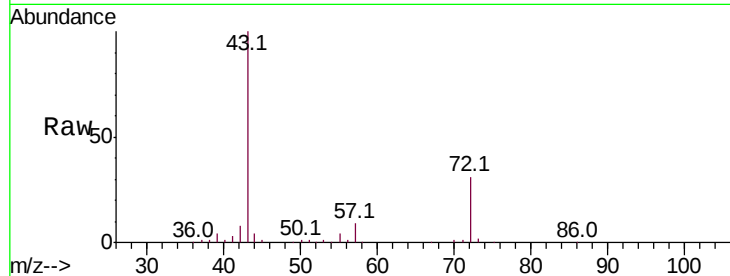
#34
2-Butanone
Concen: 2.911 ppbv
RT: 5.22 min Scan# 757
Delta R.T. -0.02 min
Lab File: VL036023.D
Acq: 25 Nov 2020 9:53

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion: 43 Resp: 394256
Ion Ratio Lower Upper
43 100
72 31.8 26.5 39.7

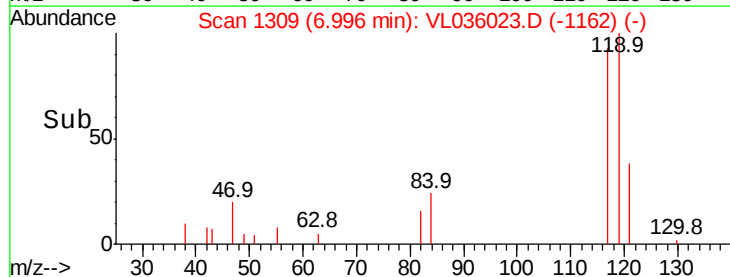
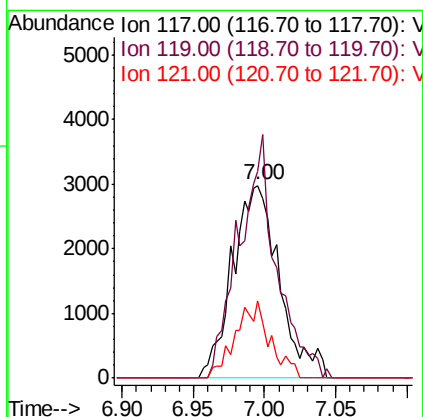
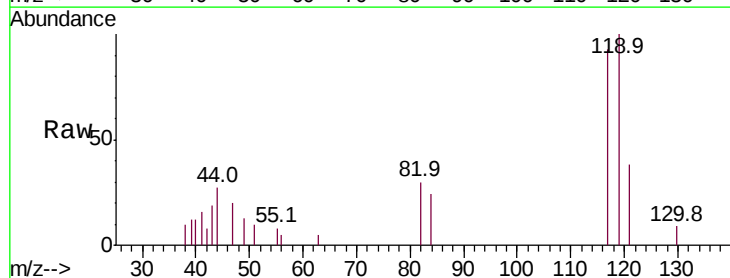
Manual Integrations
APPROVED

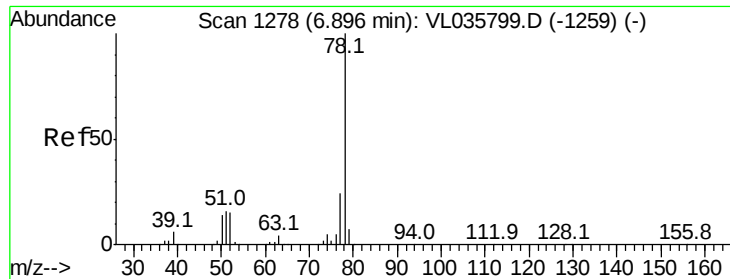
MMDadoda
11/27/2020 1:17:26 PM



#35
Carbon Tetrachloride
Concen: 0.030 ppbv m
RT: 7.00 min Scan# 1309
Delta R.T. -0.03 min
Lab File: VL036023.D
Acq: 25 Nov 2020 9:53

Tgt Ion: 117 Resp: 6775
Ion Ratio Lower Upper
117 100
119 107.0 75.6 113.4
121 40.3 25.1 37.7#





#36

Benzene

Concen: 0.270 ppbv

RT: 6.87 min Scan# 1269

Delta R.T. -0.03 min

Lab File: VL036023.D

Acq: 25 Nov 2020 9:53

Instrument :

MSVOA_L

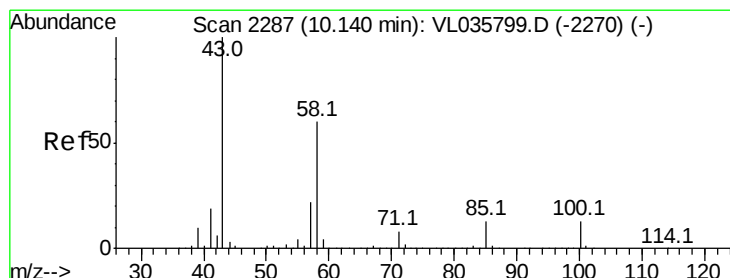
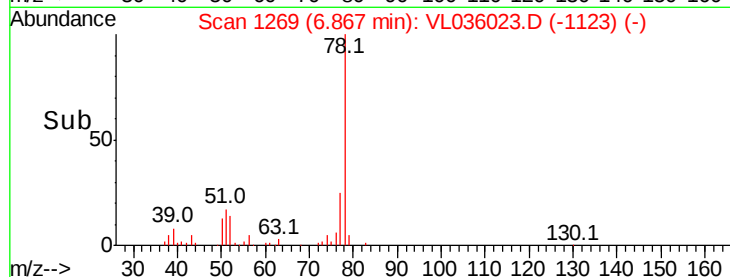
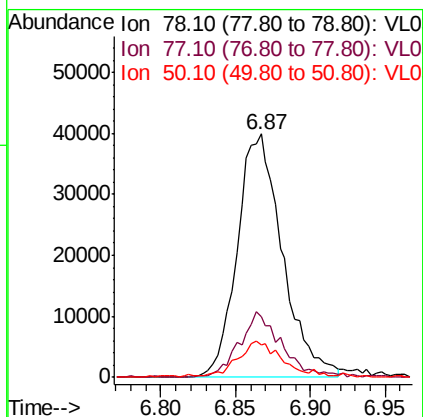
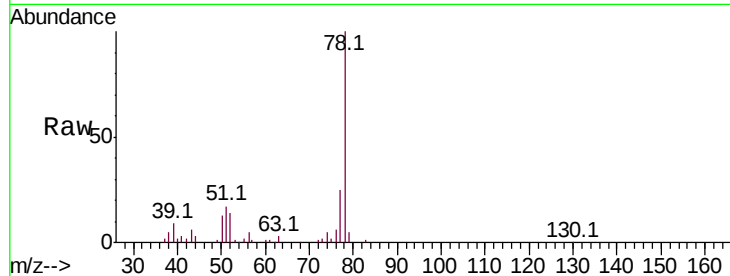
ClientSampled :

SV1

Tot Ion:	78	Resp:	83871
Ion	Ratio	Lower	Upper
78	100		
77	24.8	19.3	28.9
50	12.5	11.4	17.2

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#51

2-Hexanone

Concen: 0.129 ppbv

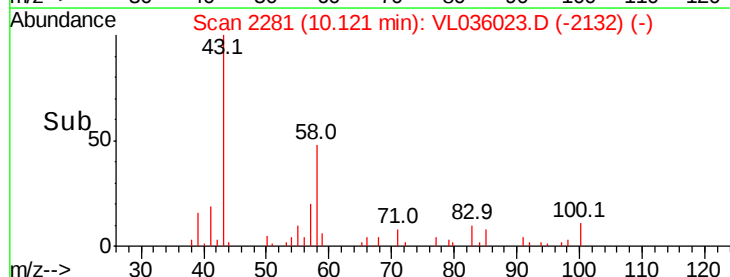
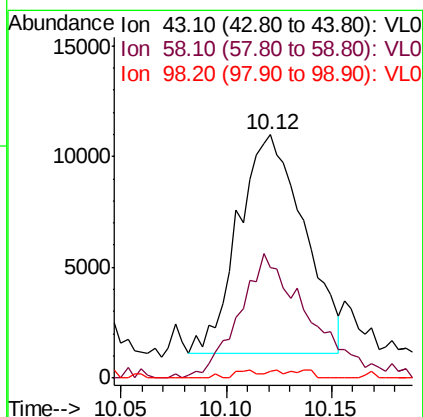
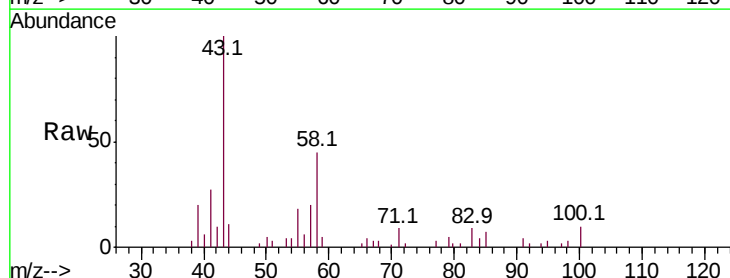
RT: 10.12 min Scan# 2281

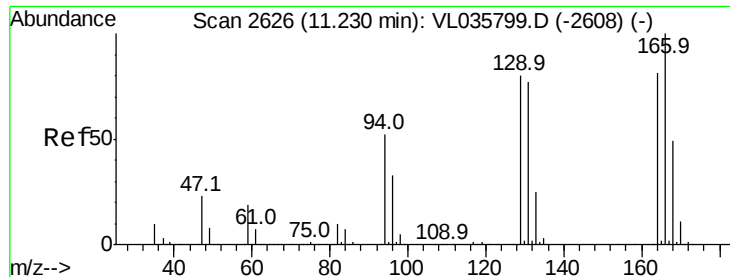
Delta R.T. -0.02 min

Lab File: VL036023.D

Acq: 25 Nov 2020 9:53

Tgt Ion:	43	Resp:	21462
Ion	Ratio	Lower	Upper
43	100		
58	61.1	48.3	72.5
98	3.3	0.6	0.8#





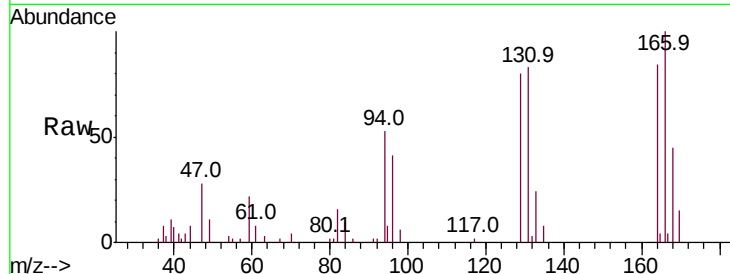
#52
Tetrachloroethene
Concen: 0.127 ppbv
RT: 11.20 min Scan# 2617
Delta R.T. -0.03 min
Lab File: VL036023.D
Acq: 25 Nov 2020 9:53

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tot Ion	Ratio	Lower	Upper
164	100		
166	119.1	99.3	148.9
129	95.4	79.3	118.9
131	99.4	76.5	114.7

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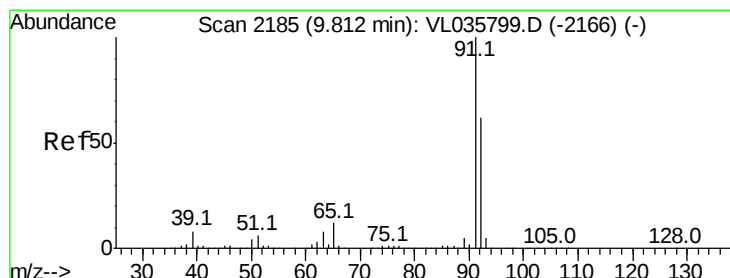
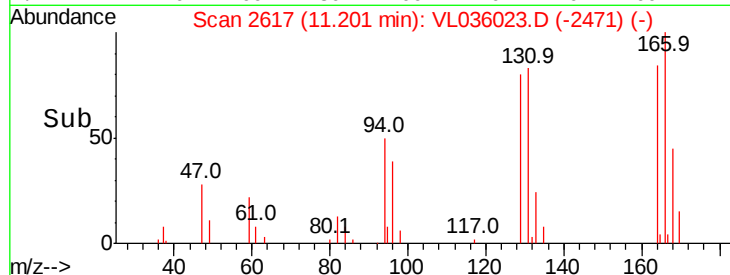
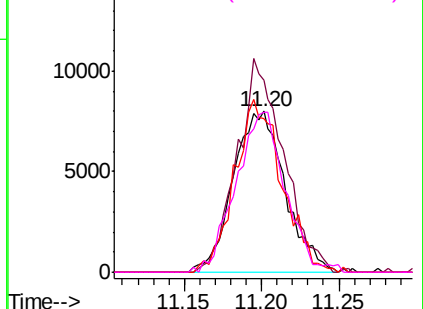
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

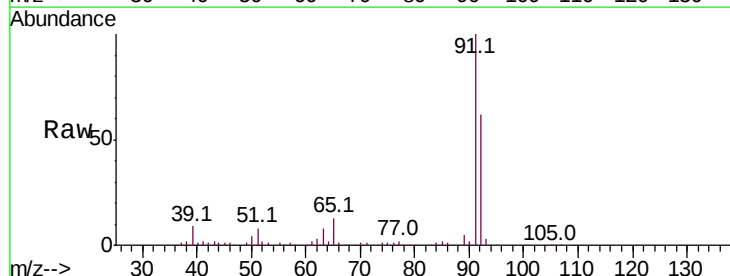
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53
Toluene
Concen: 0.772 ppbv
RT: 9.78 min Scan# 2175
Delta R.T. -0.03 min
Lab File: VL036023.D
Acq: 25 Nov 2020 9:53

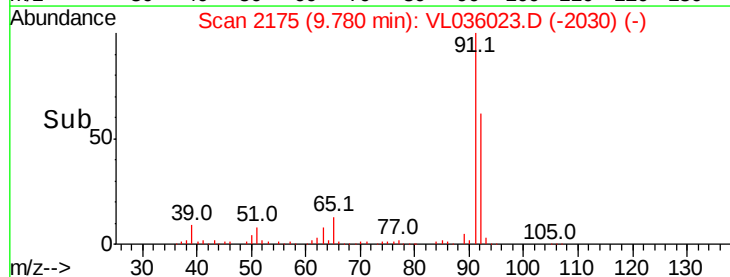
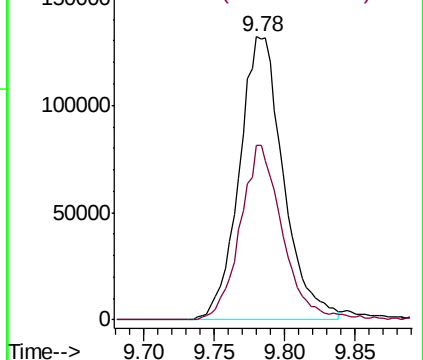
Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.5	49.8	74.6

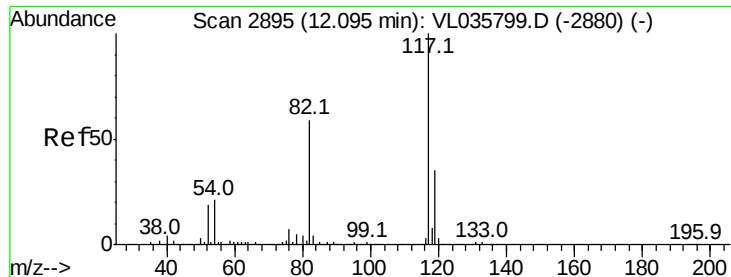


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





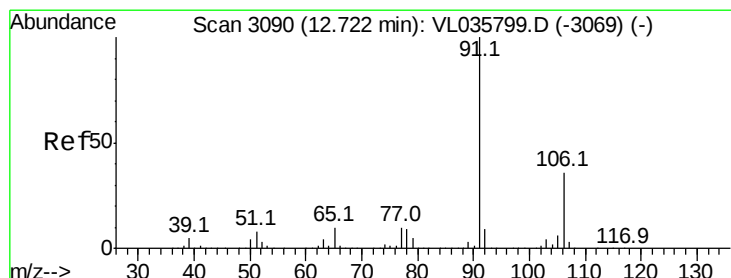
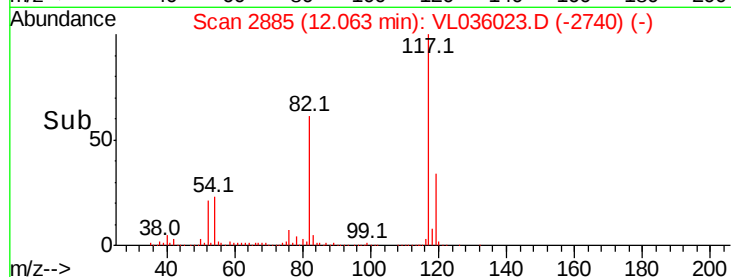
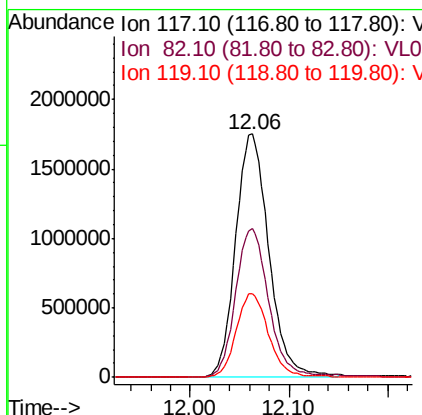
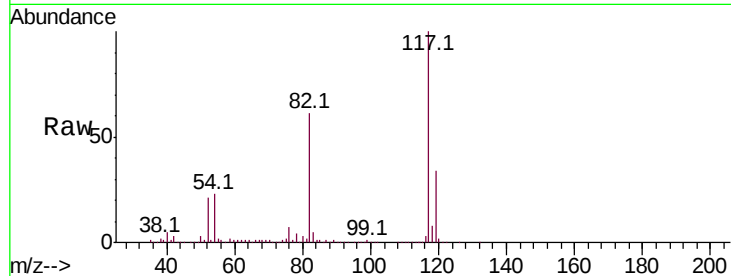
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2885
Delta R.T. -0.03 min
Lab File: VL036023.D
Acq: 25 Nov 2020 9:53

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion:117 Resp: 4100627
Ion Ratio Lower Upper
117 100
82 62.3 50.6 76.0
119 34.2 52.6 78.8#

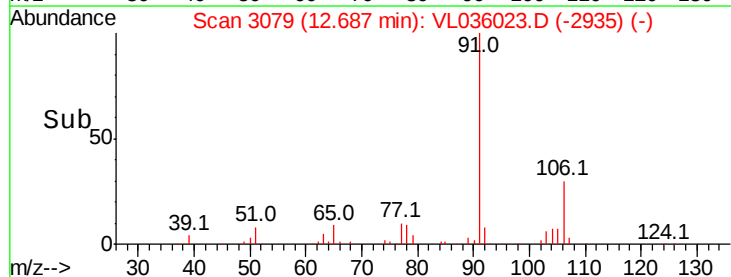
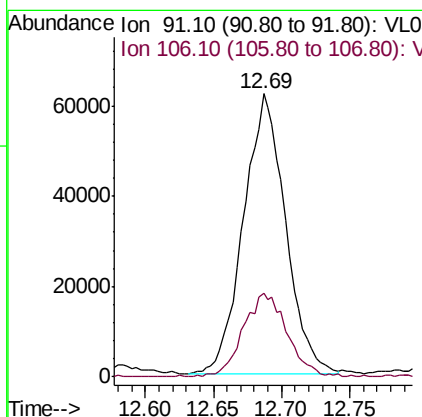
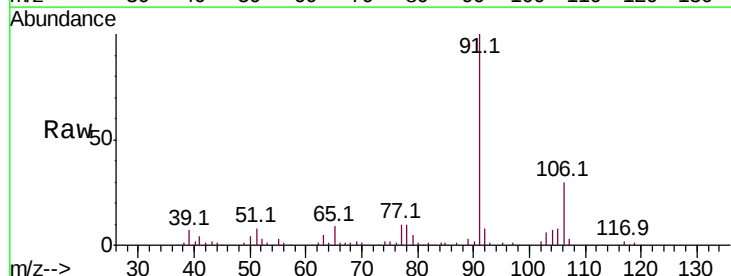
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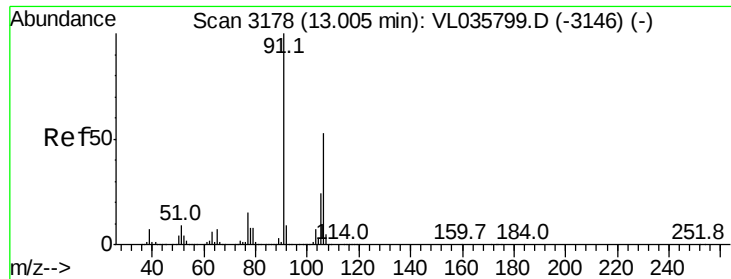
MMDadoda
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#58
Ethyl Benzene
Concen: 0.264 ppbv
RT: 12.69 min Scan# 3079
Delta R.T. -0.04 min
Lab File: VL036023.D
Acq: 25 Nov 2020 9:53

Tgt Ion: 91 Resp: 131794
Ion Ratio Lower Upper
91 100
106 29.7 28.6 43.0





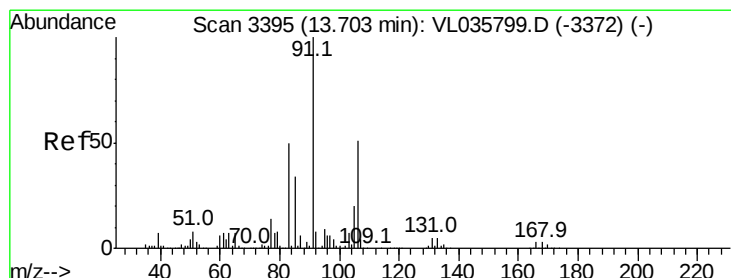
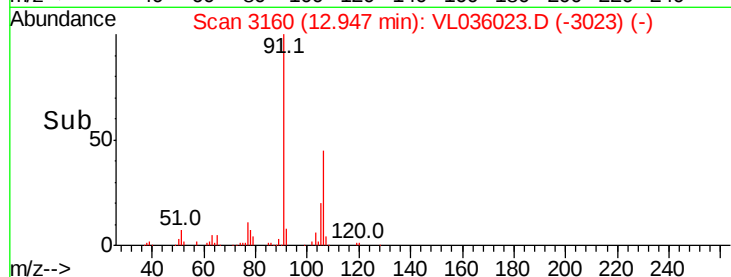
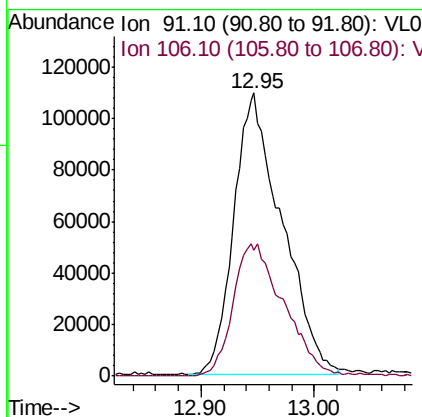
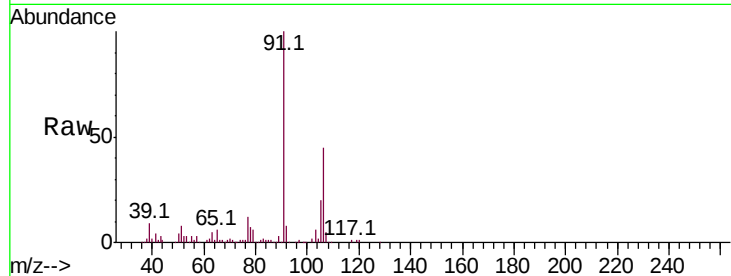
#59
m/p-Xylene
Concen: 0.766 ppbv
RT: 12.95 min Scan# 3160
Delta R.T. -0.06 min
Lab File: VL036023.D
Acq: 25 Nov 2020 9:53

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion: 91 Resp: 323609
Ion Ratio Lower Upper
91 100
106 50.0 39.5 59.3

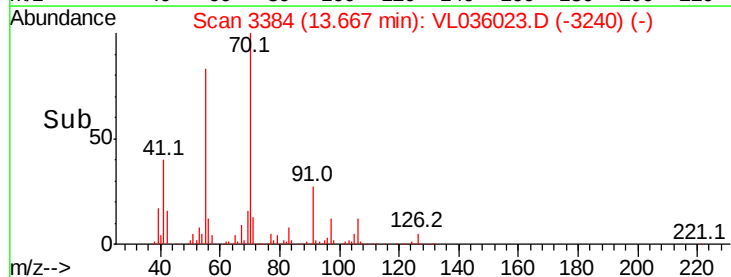
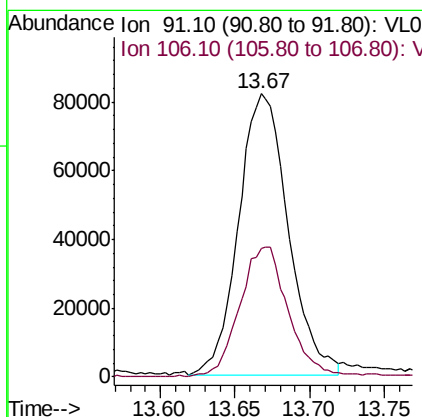
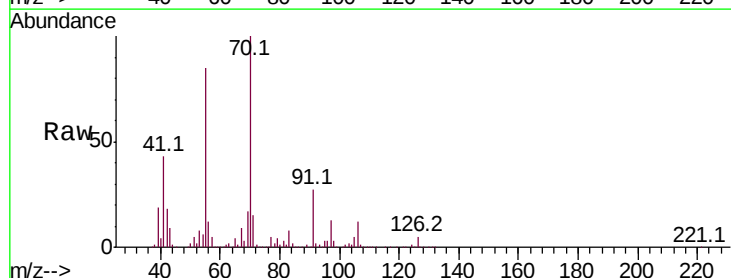
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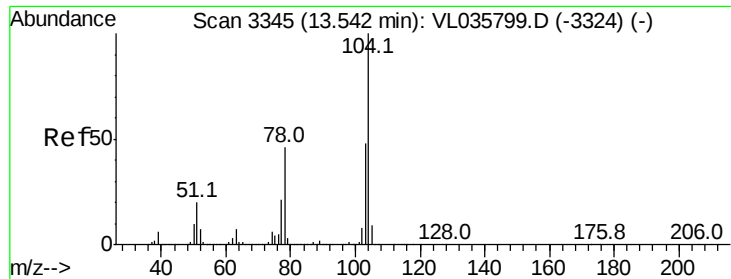
MMDadoda
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#60
o-Xylene
Concen: 0.458 ppbv
RT: 13.67 min Scan# 3384
Delta R.T. -0.04 min
Lab File: VL036023.D
Acq: 25 Nov 2020 9:53

Tgt Ion: 91 Resp: 188406
Ion Ratio Lower Upper
91 100
106 45.8 24.8 74.4





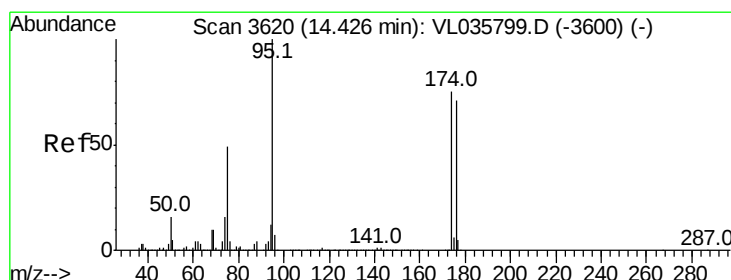
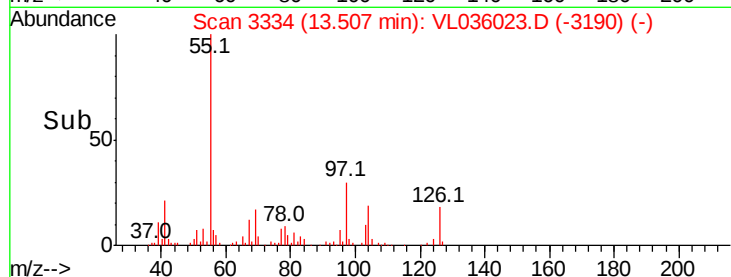
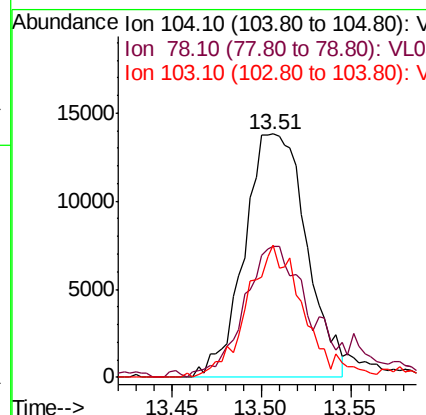
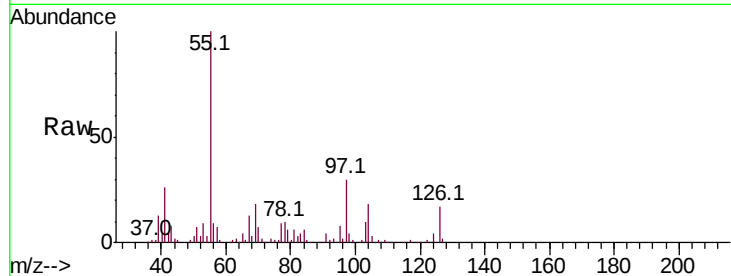
#61
Stvrene
Concen: 0.111 ppbv
RT: 13.51 min Scan# 3334
Delta R.T. -0.04 min
Lab File: VL036023.D
Acq: 25 Nov 2020 9:53

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion	Ratio	Lower	Upper
104	100		
78	65.8	37.1	55.7#
103	51.7	37.9	56.9

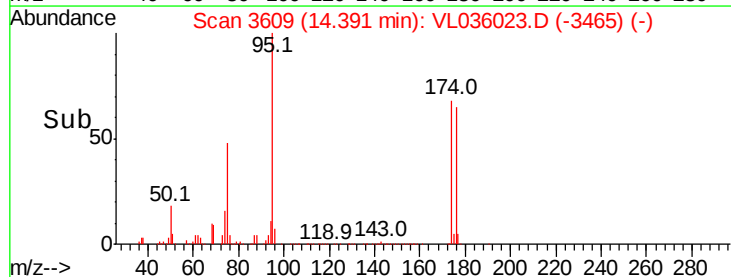
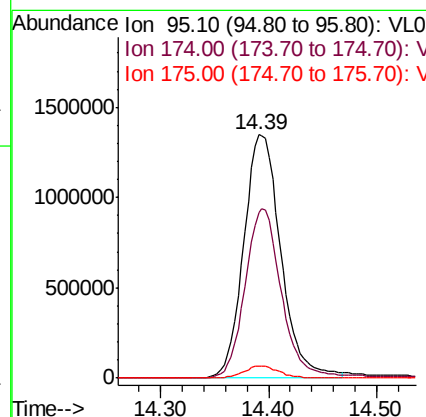
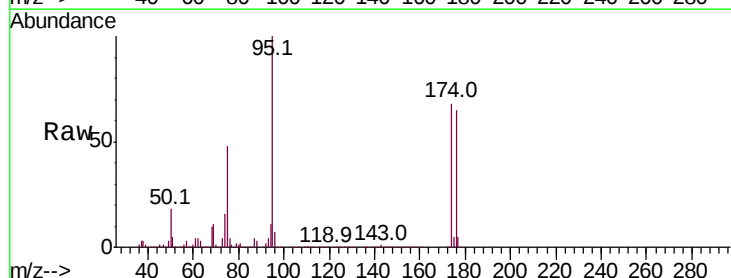
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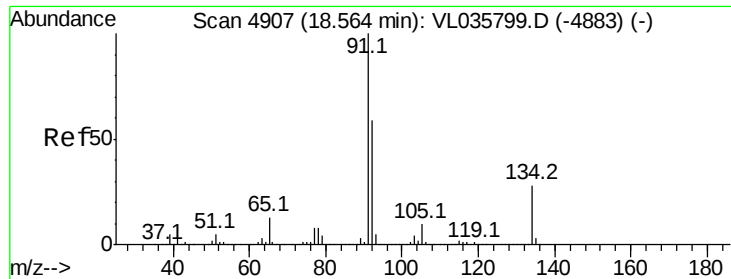
MMDadoda
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#68
1-Bromo-4-Fluorobenzene
Concen: 11.078 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.04 min
Lab File: VL036023.D
Acq: 25 Nov 2020 9:53

Tgt Ion	Ratio	Lower	Upper
95	100		
174	69.8	59.8	89.6
175	4.9	4.3	6.5





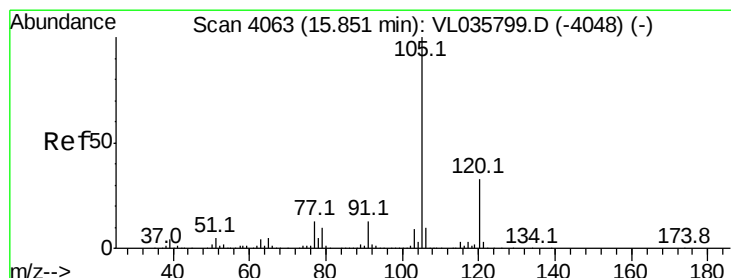
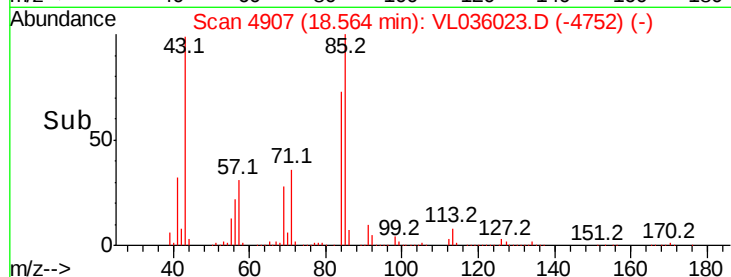
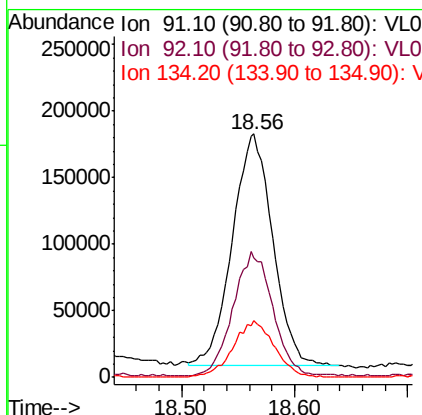
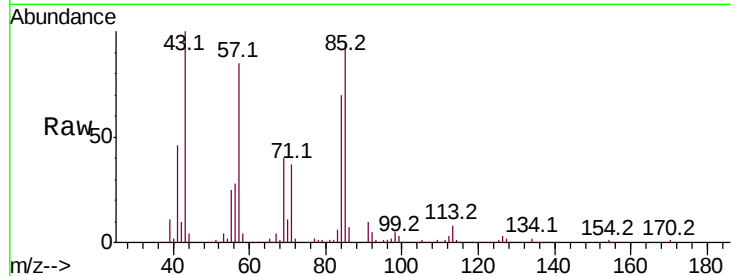
#70
n-Butylbenzene
Concen: 0.690 ppbv
RT: 18.56 min Scan# 4907
Delta R.T. -0.00 min
Lab File: VL036023.D
Acq: 25 Nov 2020 9:53

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion	Ratio	Resp	Lower	Upper
91	100	434564		
92	52.3		45.7	68.5
134	25.0		21.0	31.4

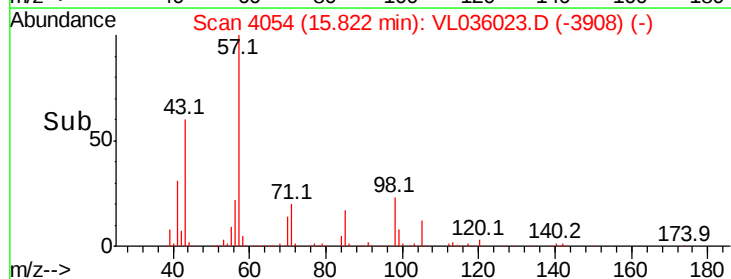
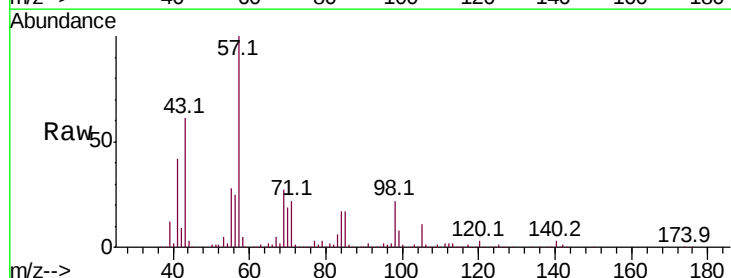
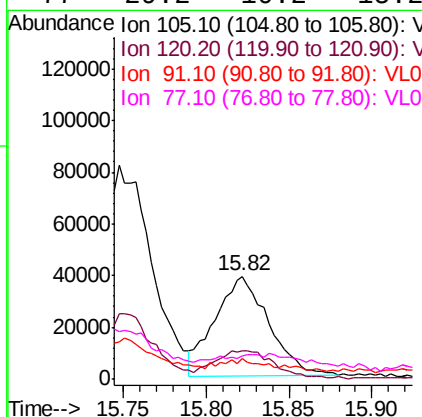
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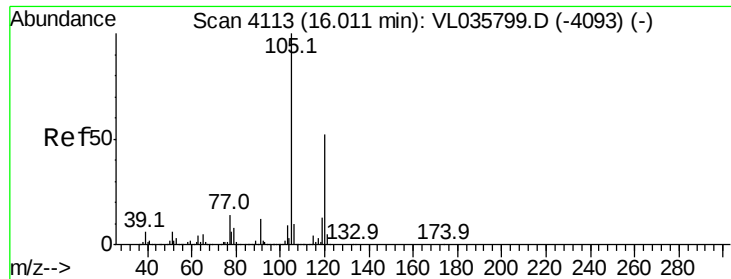
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#72
4-Ethyltoluene
Concen: 0.173 ppbv
RT: 15.82 min Scan# 4054
Delta R.T. -0.03 min
Lab File: VL036023.D
Acq: 25 Nov 2020 9:53

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	86368		
120	29.9		25.9	38.9
91	16.2		9.9	14.9#
77	29.2		10.2	15.2#





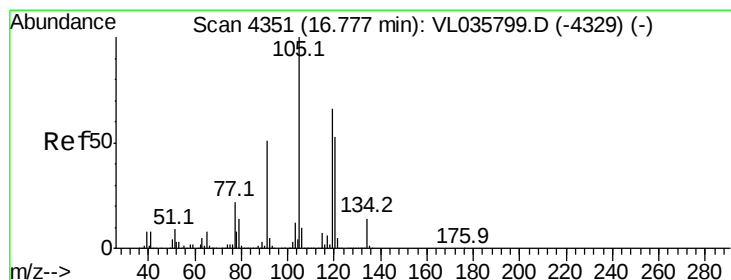
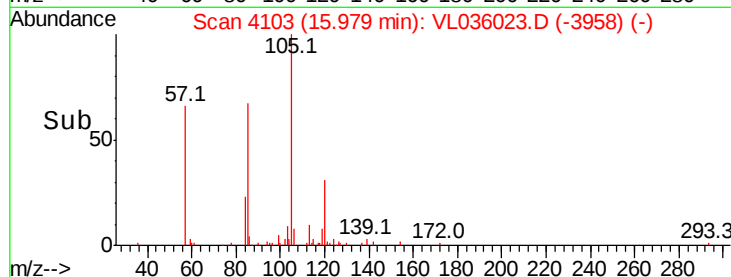
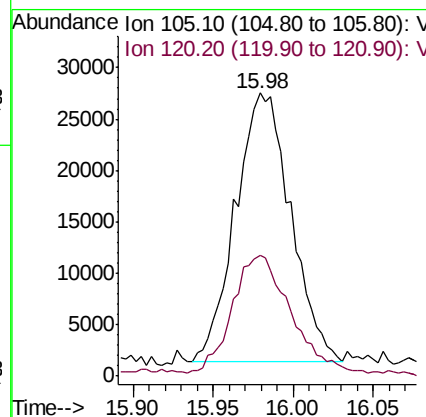
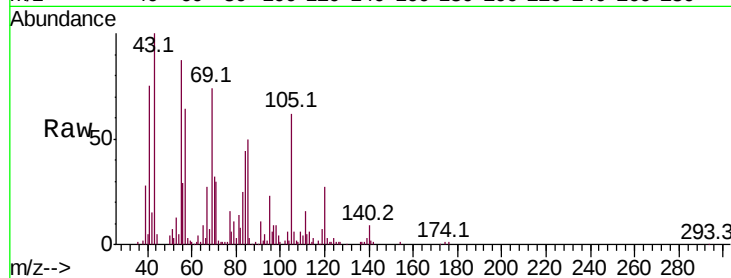
#73
 1,3,5-Trimethylbenzene
 Concen: 0.136 ppbv
 RT: 15.98 min Scan# 4103
 Delta R.T. -0.03 min
 Lab File: VL036023.D
 Acq: 25 Nov 2020 9:53

Instrument :
 MSVOA_L
 ClientSampled :
 SV1

Tot Ion:105 Resp: 61868
 Ion Ratio Lower Upper
 105 100
 120 43.0 41.4 62.2

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.490 ppbv
 RT: 16.75 min Scan# 4342
 Delta R.T. -0.03 min
 Lab File: VL036023.D
 Acq: 25 Nov 2020 9:53

Tgt Ion:105 Resp: 239328
 Ion Ratio Lower Upper
 105 100
 120 39.1 42.0 63.0#
 91 11.4 41.0 61.6#
 77 13.6 17.3 25.9#

