

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110420\
 Data File : VL035835.D
 Acq On : 4 Nov 2020 16:11
 Operator : SY/AP
 Sample : L4610-03 2X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Manual Integrations
 APPROVED

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 11/5/2020 2:16:48 PM

Quant Time: Nov 05 04:01:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Nov 04
 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	1077442	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	4779523	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	4369210	10.00	ppbv	-0.04

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.39	95	3123338	10.06	ppbv	-0.04	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	35314	0.174	ppbv	96
3) Chlorodifluoromethane	2.96	51	24227	0.188	ppbv	91
4) Chloromethane	3.12	50	6742	0.108	ppbv	92
9) Propene	2.99	41	35044	0.742	ppbv	93
10) Heptane	8.09	43	19320m	0.148	ppbv	
11) Trichlorofluoromethane	3.92	101	25219	0.099	ppbv	95
13) Ethanol	3.59	45	37824	3.692	ppbv	97
15) Acetone	3.82	43	1356343	11.775	ppbv	98
17) tert-Butyl alcohol	4.29	59	27330	0.179	ppbv	95
19) Isopropyl Alcohol	3.96	45	17210m	0.243	ppbv	
20) Methylene Chloride	4.32	84	87284	1.076	ppbv	97
26) Hexane	5.66	57	83884	0.670	ppbv #	45
34) 2-Butanone	5.23	43	61525	0.397	ppbv	97
36) Benzene	6.86	78	44772	0.126	ppbv #	92
52) Tetrachloroethene	11.19	164	15732m	0.093	ppbv	
53) Toluene	9.77	91	373272	0.871	ppbv	98
58) Ethyl Benzene	12.68	91	177127	0.333	ppbv	94
59) m/p-Xylene	12.94	91	410923	0.913	ppbv	97
60) o-Xylene	13.66	91	159416	0.364	ppbv	99
64) n-propylbenzene	15.53	120	30363	0.153	ppbv	75
70) n-Butylbenzene	18.55	91	193297	0.288	ppbv	96
72) 4-Ethyltoluene	15.82	105	68990m	0.130	ppbv	
74) 1,2,4-Trimethylbenzene	16.73	105	145413m	0.279	ppbv	

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

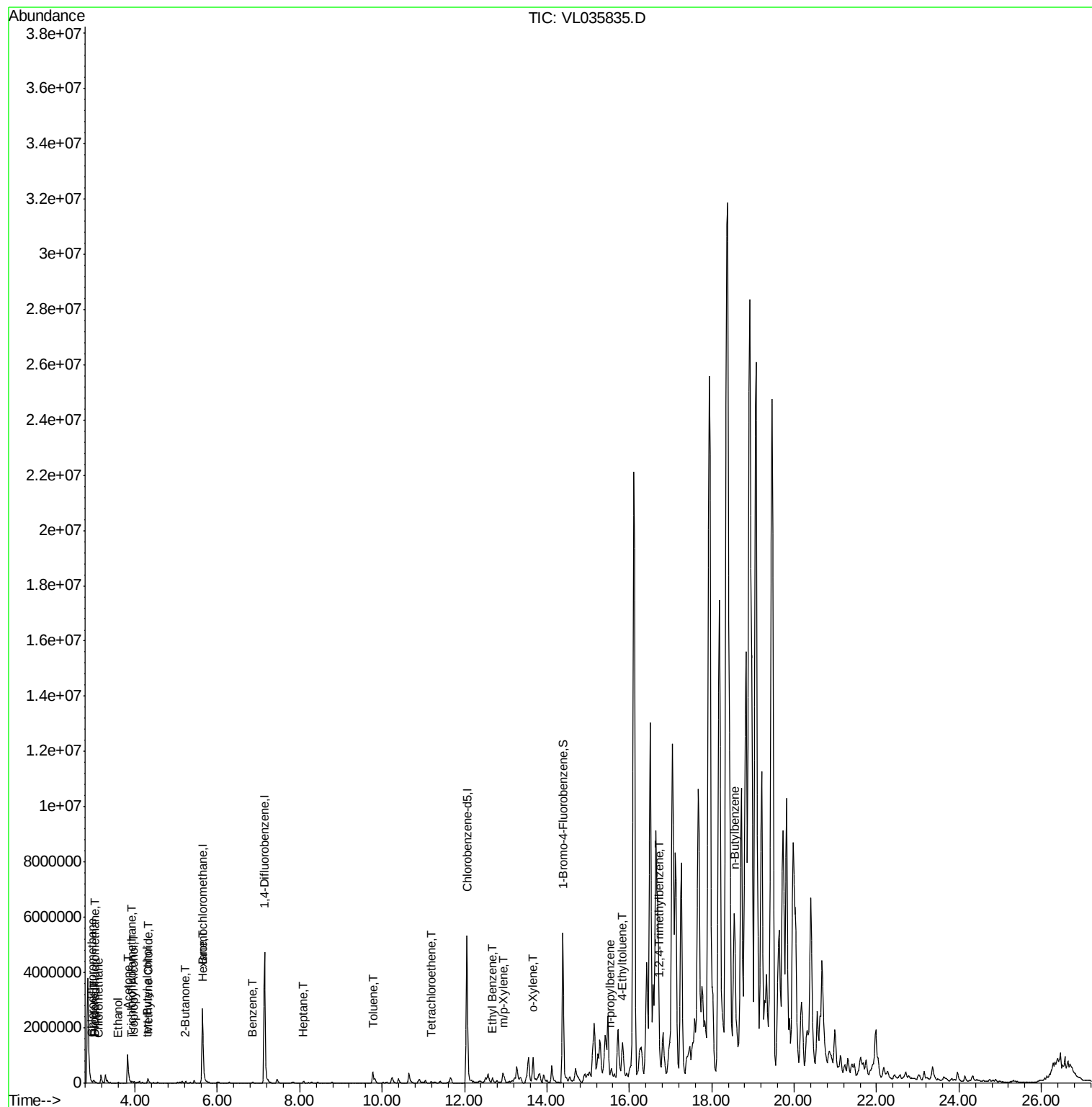
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110420\
Data File : VL035835.D
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ALS Vial : 1 Sample Multiplier: 1

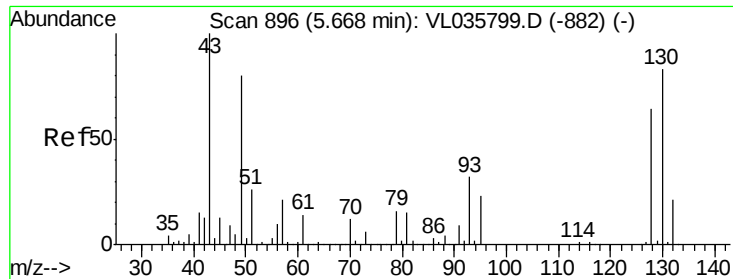
Instrument :
MSVOA_L
ClientSampleId :
SV3

Manual Integrations
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Quant Time: Nov 05 04:01:31 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# 887

Delta R.T. -0.03 min

Lab File: VL035835.D

Acq: 4 Nov 2020 16:11

Instrument :

MSVOA_L

ClientSampled :

SV3

Tot Ion: 49 Resp: 1077442

Ion Ratio Lower Upper

49 100

128 89.7 41.5 124.6

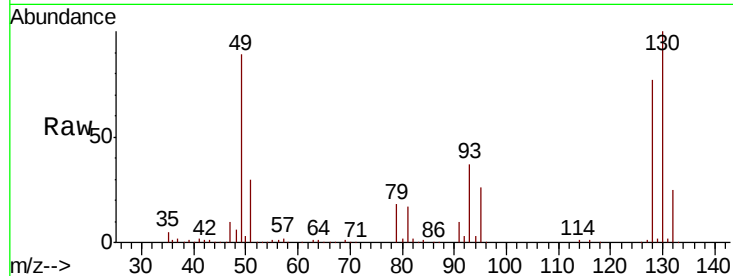
130 114.5 53.7 161.1

Manual Integrations

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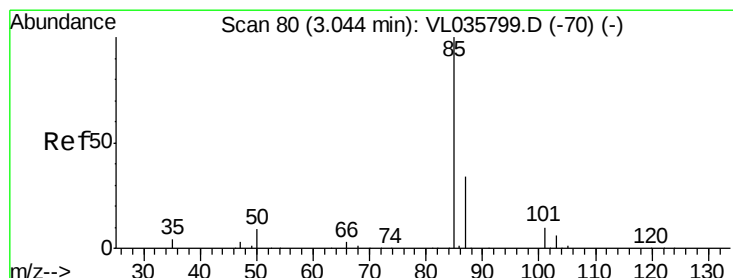
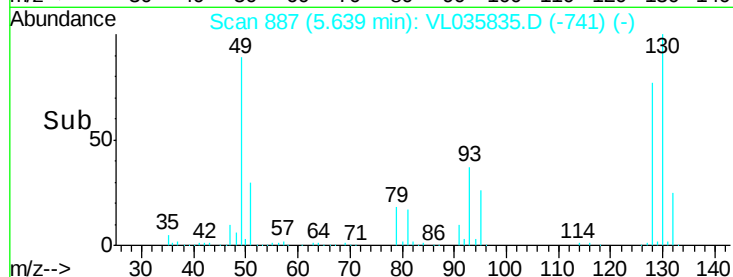
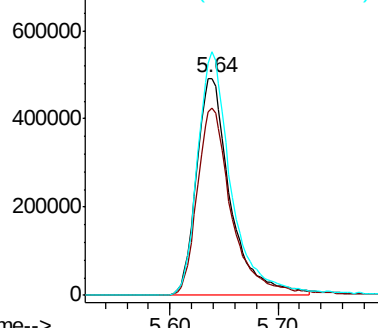
11/5/2020 2:16:48 PM



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: 0.174 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.02 min

Lab File: VL035835.D

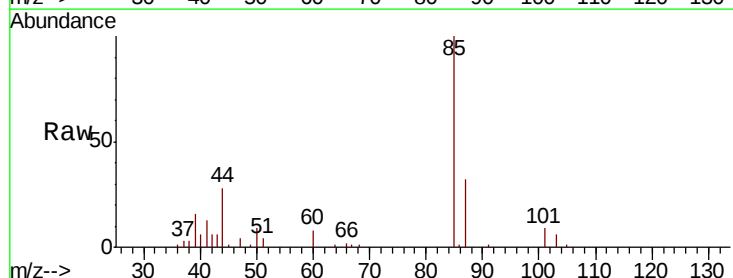
Acq: 4 Nov 2020 16:11

Tgt Ion: 85 Resp: 35314

Ion Ratio Lower Upper

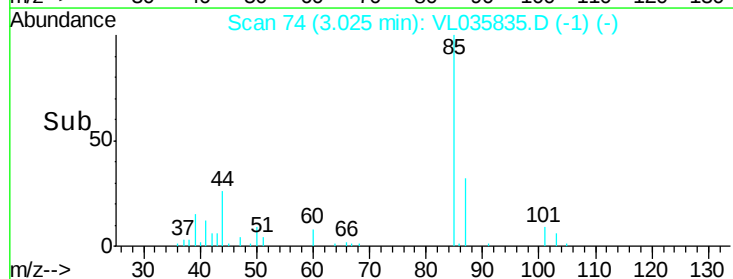
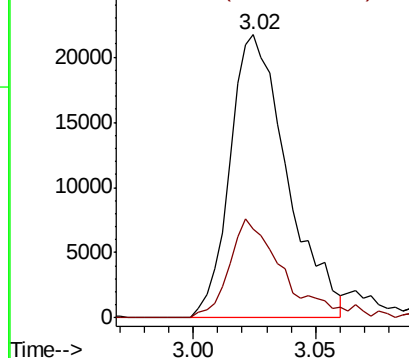
85 100

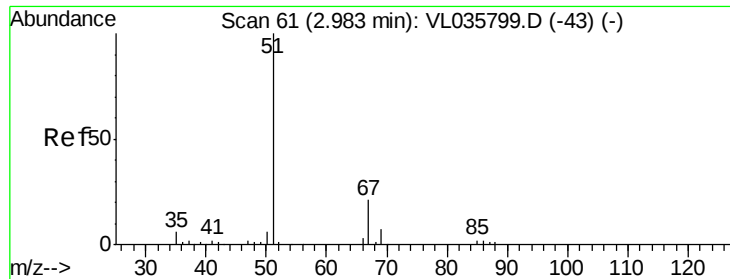
87 31.5 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.188 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.02 min

Lab File: VL035835.D

Acq: 4 Nov 2020 16:11

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tot Ion: 51 Resp: 24227

Ion Ratio Lower Upper

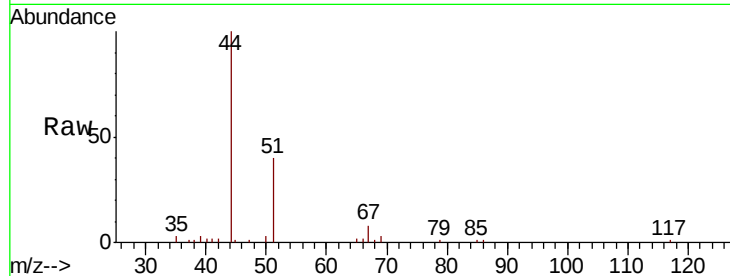
51 100

67 17.0 17.0 25.4

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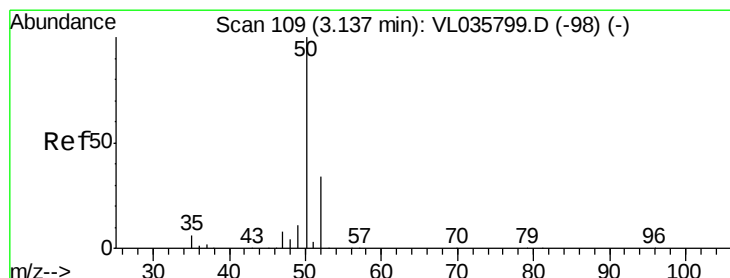
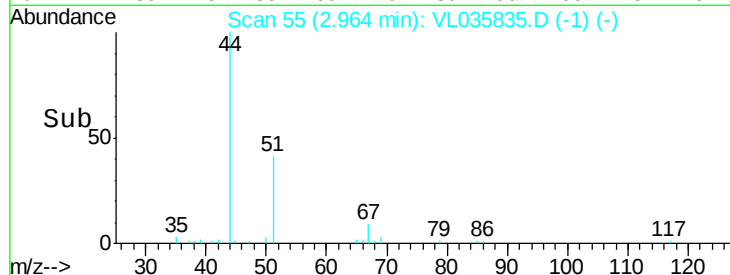
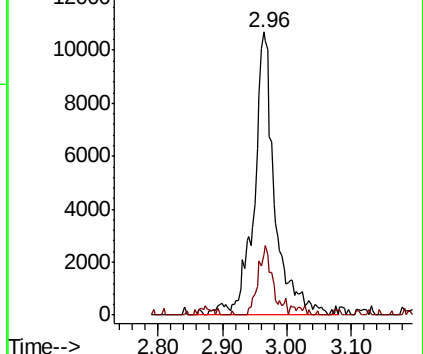
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.108 ppbv

RT: 3.12 min Scan# 103

Delta R.T. -0.02 min

Lab File: VL035835.D

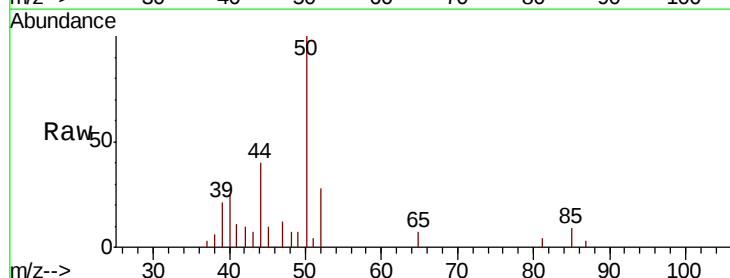
Acq: 4 Nov 2020 16:11

Tgt Ion: 50 Resp: 6742

Ion Ratio Lower Upper

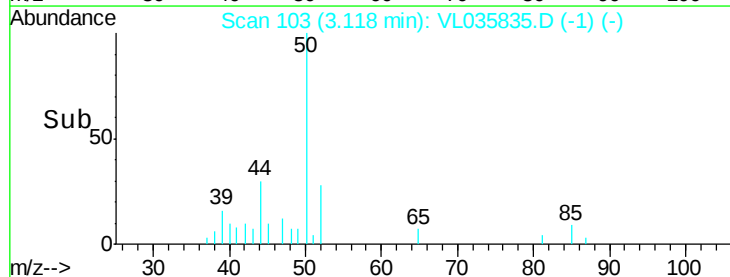
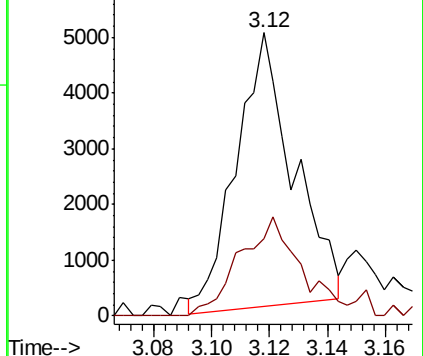
50 100

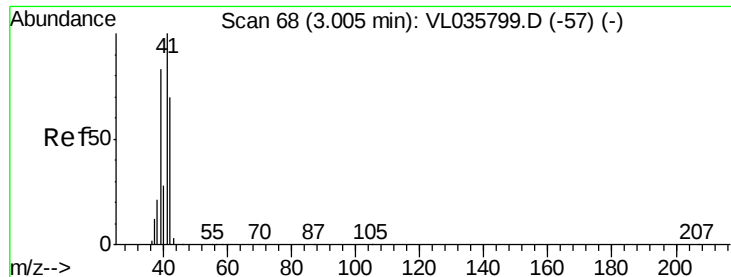
52 29.4 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





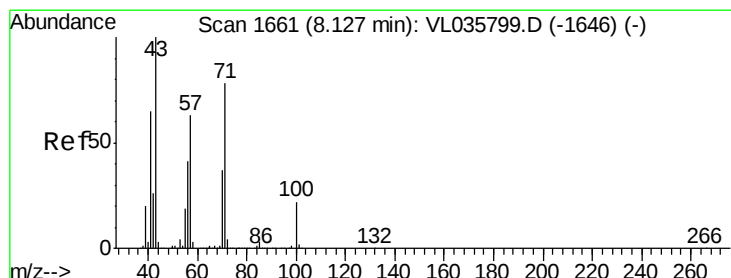
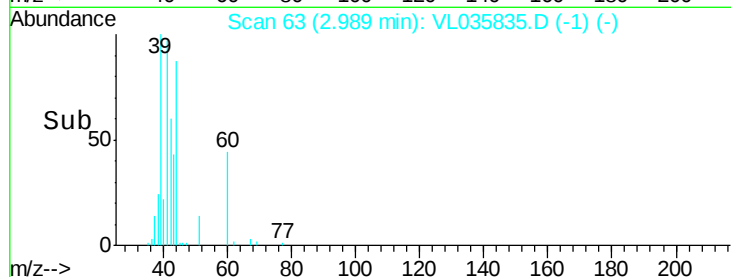
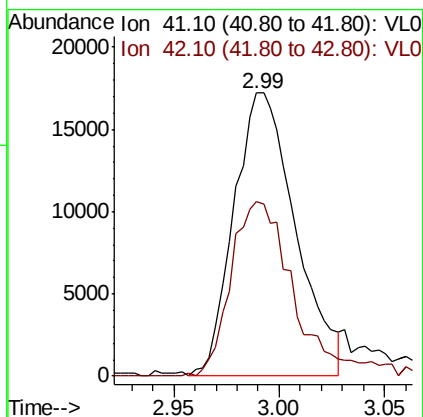
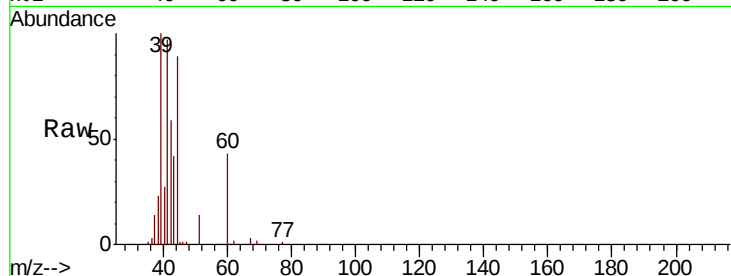
#9
 Propene
 Concen: 0.742 ppbv
 RT: 2.99 min Scan# 63
 Delta R.T. -0.02 min
 Lab File: VL035835.D
 Acq: 4 Nov 2020 16:11

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Tot Ion: 41 Resp: 35044
 Ion Ratio Lower Upper
 41 100
 42 64.3 56.2 84.4

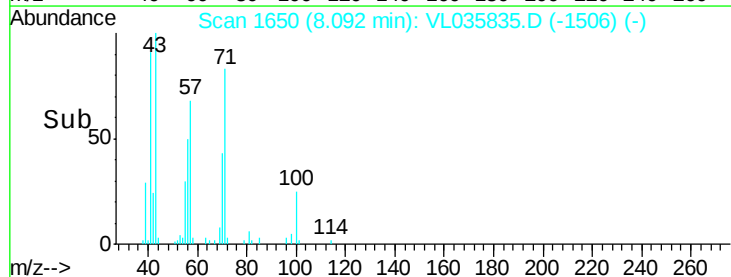
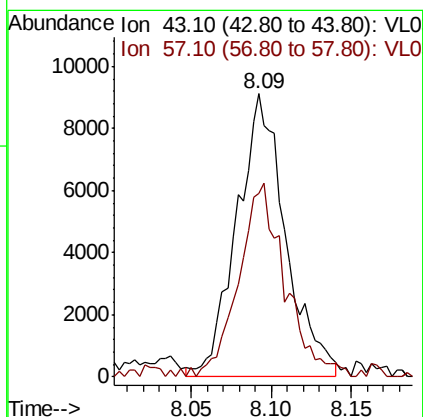
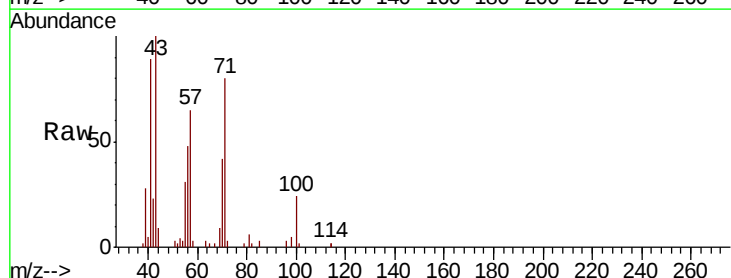
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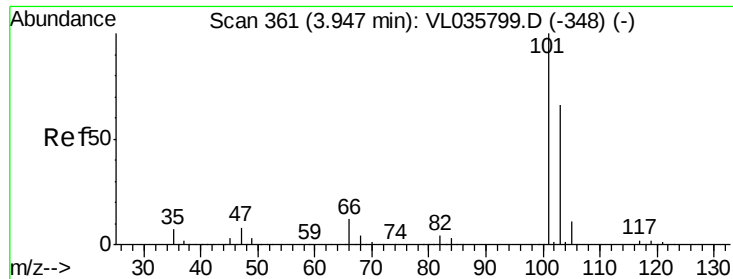
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#10
 Heptane
 Concen: 0.148 ppbv m
 RT: 8.09 min Scan# 1650
 Delta R.T. -0.04 min
 Lab File: VL035835.D
 Acq: 4 Nov 2020 16:11

Tgt Ion: 43 Resp: 19320
 Ion Ratio Lower Upper
 43 100
 57 67.0 50.0 75.0





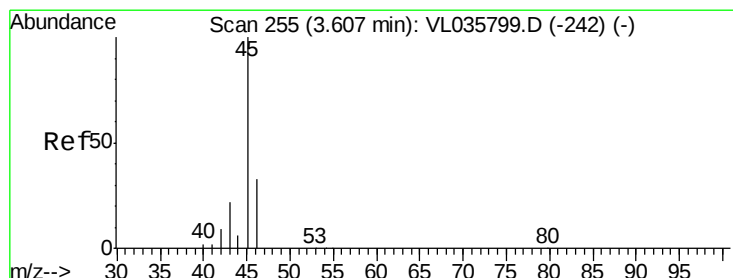
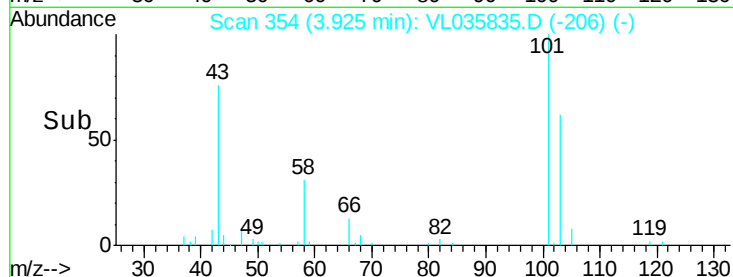
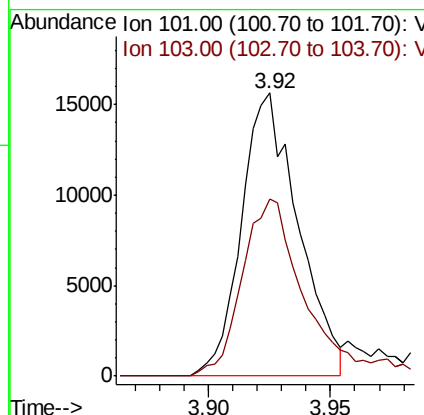
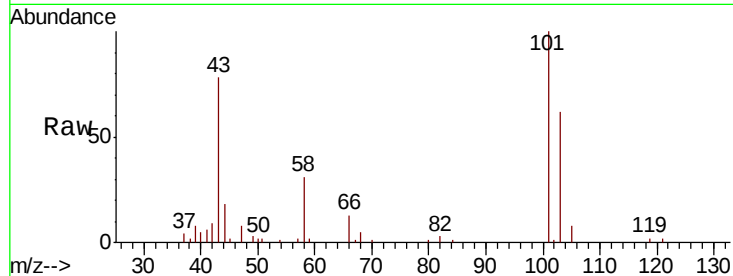
#11
Trichlorofluoromethane
Concen: 0.099 ppbv
RT: 3.92 min Scan# 354
Delta R.T. -0.02 min
Lab File: VL035835.D
Acq: 4 Nov 2020 16:11

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tot Ion:101 Resp: 25219
Ion Ratio Lower Upper
101 100
103 62.5 53.0 79.4

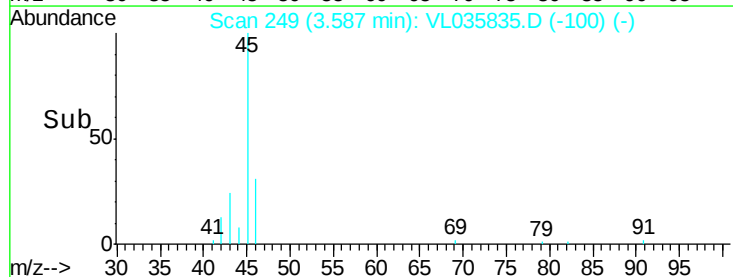
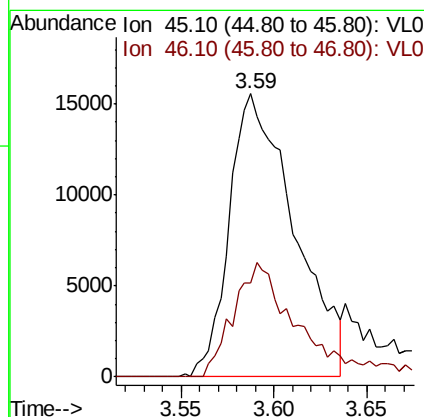
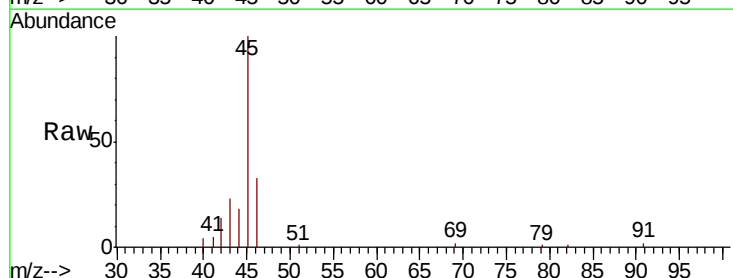
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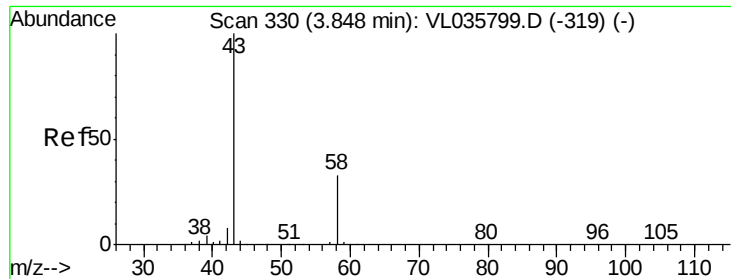
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#13
Ethanol
Concen: 3.692 ppbv
RT: 3.59 min Scan# 249
Delta R.T. -0.02 min
Lab File: VL035835.D
Acq: 4 Nov 2020 16:11

Tgt Ion: 45 Resp: 37824
Ion Ratio Lower Upper
45 100
46 42.2 16.1 64.5





#15

Acetone

Concen: 11.775 ppbv

RT: 3.82 min Scan# 322

Delta R.T. -0.03 min

Lab File: VL035835.D

Acq: 4 Nov 2020 16:11

Instrument :

MSVOA_L

ClientSampled :

SV3

Tot Ion: 43 Resp: 1356343

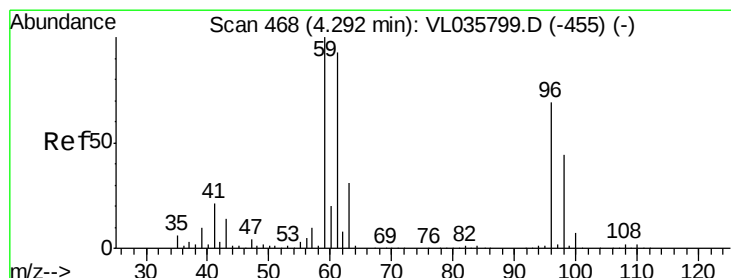
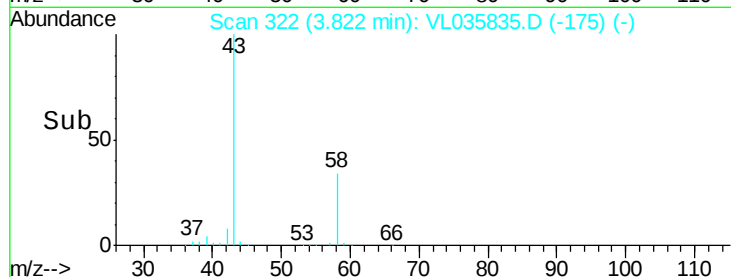
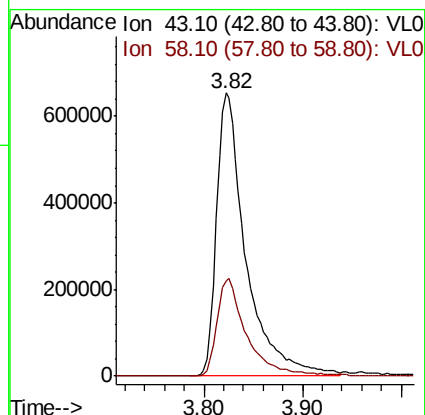
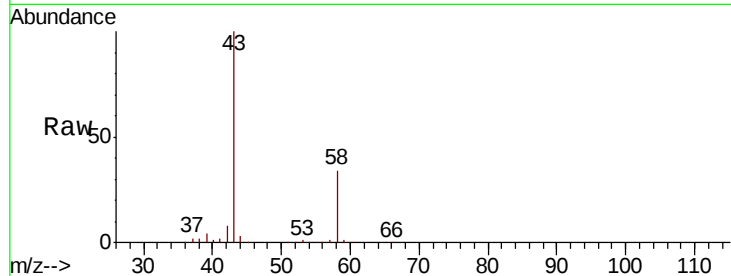
Ion Ratio Lower Upper

43 100

58 35.5 27.5 41.3

Manual Integrations
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#17

tert-Butyl alcohol

Concen: 0.179 ppbv

RT: 4.29 min Scan# 468

Delta R.T. -0.00 min

Lab File: VL035835.D

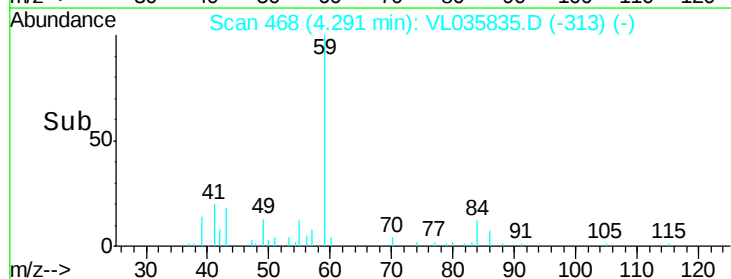
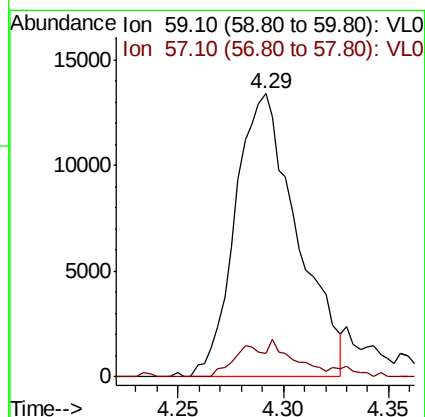
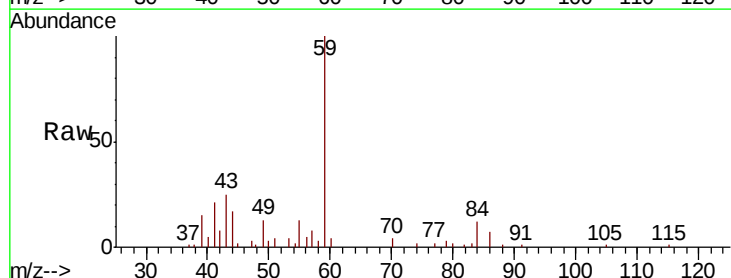
Acq: 4 Nov 2020 16:11

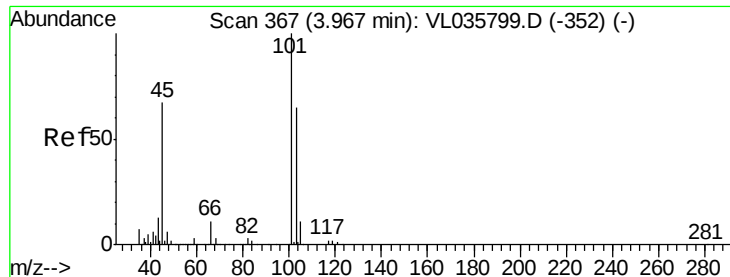
Tgt Ion: 59 Resp: 27330

Ion Ratio Lower Upper

59 100

57 12.3 8.2 12.4





#19

Isopropyl Alcohol

Concen: 0.243 ppbv m

RT: 3.96 min Scan# 366

Delta R.T. -0.00 min

Lab File: VL035835.D

Acq: 4 Nov 2020 16:11

Instrument :

MSVOA_L

ClientSampled :

SV3

Tot Ion: 45 Resp: 17210

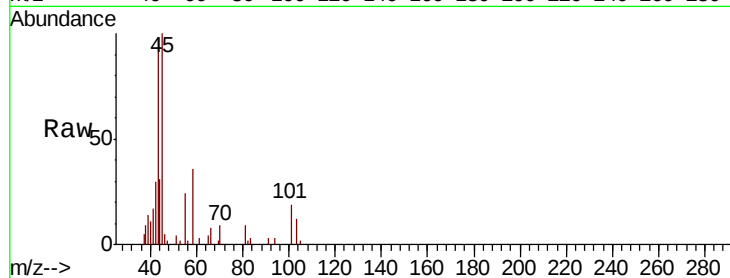
Ion Ratio Lower Upper

45 100

58 0.0 2.6 3.8#

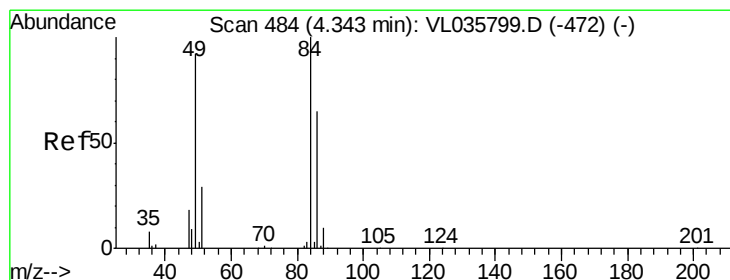
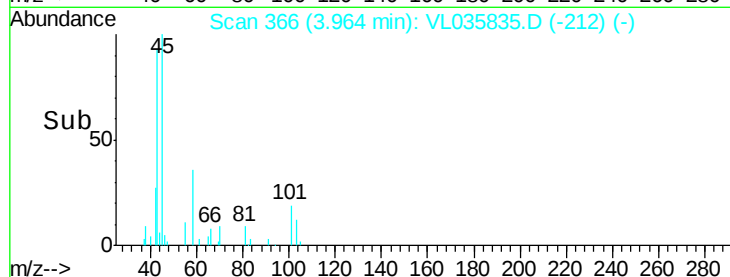
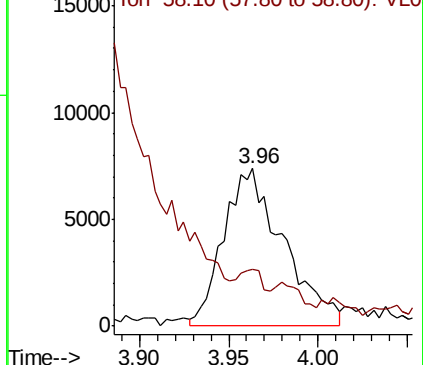
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.076 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.03 min

Lab File: VL035835.D

Acq: 4 Nov 2020 16:11

Tgt Ion: 84 Resp: 87284

Ion Ratio Lower Upper

84 100

49 89.7 73.8 110.8

51 31.6 23.0 34.4

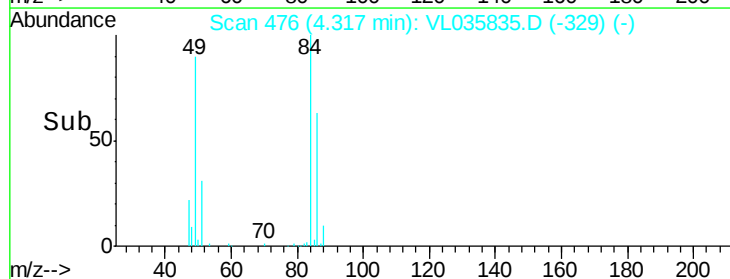
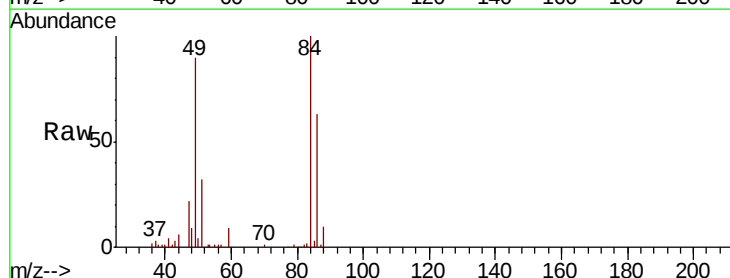
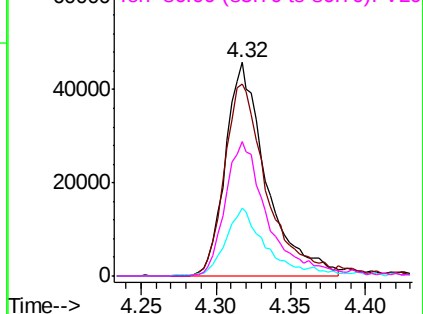
86 63.0 52.1 78.1

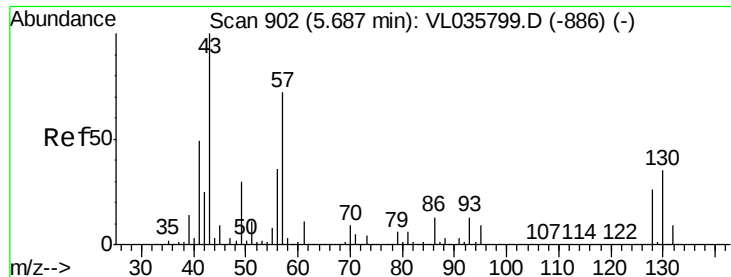
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





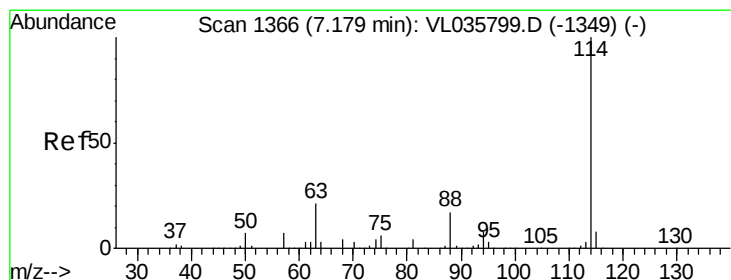
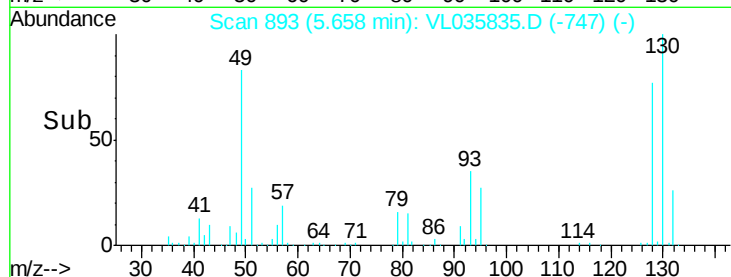
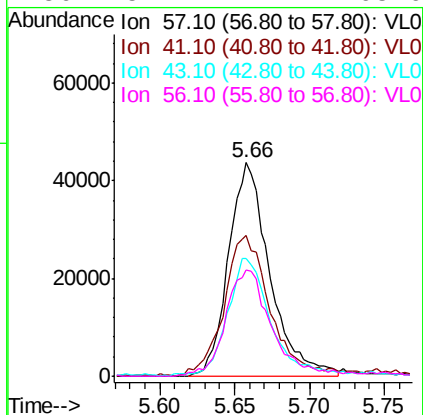
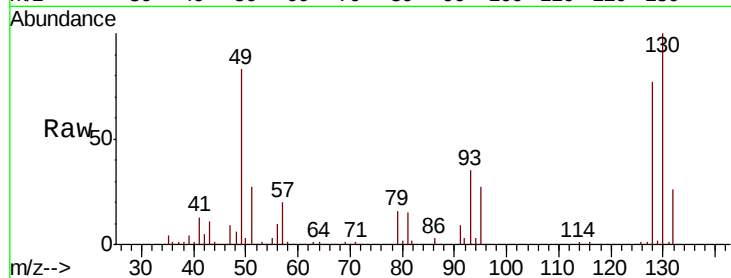
#26
Hexane
Concen: 0.670 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.03 min
Lab File: VL035835.D
Acq: 4 Nov 2020 16:11

Instrument :
MSVOA_L
ClientSampled :
SV3

Tot Ion	Ion	Ratio	Lower	Upper
57	100			
41	75.4	58.9	88.3	
43	57.4	150.2	225.2	
56	57.1	42.4	63.6	

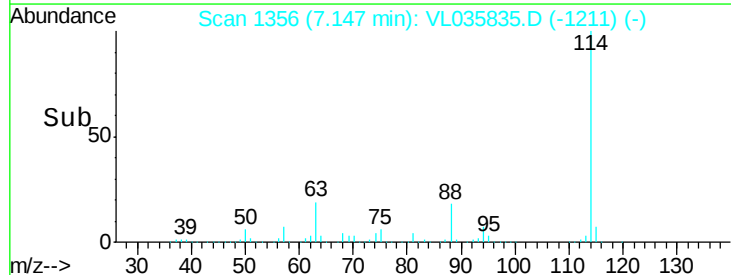
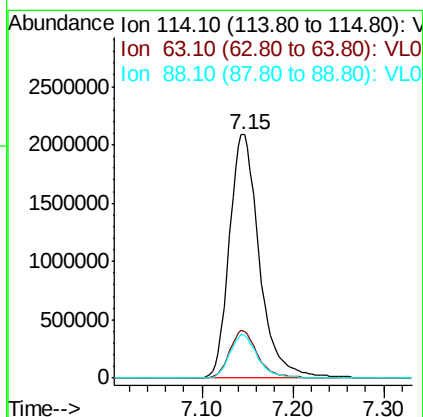
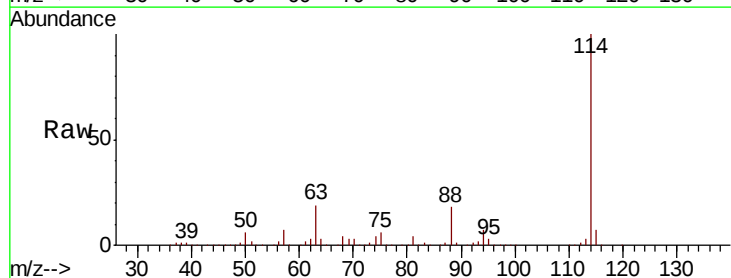
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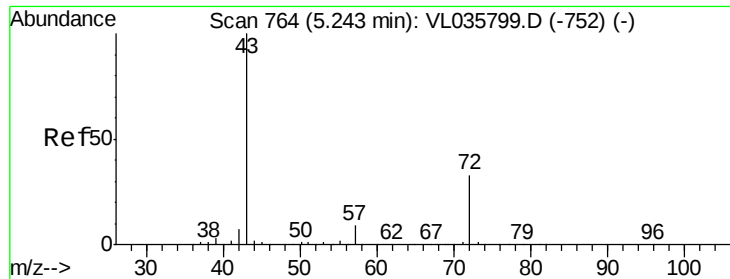
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.03 min
Lab File: VL035835.D
Acq: 4 Nov 2020 16:11

Tgt Ion	Ion	Ratio	Lower	Upper
114	100			
63	18.6	16.1	24.1	
88	16.9	13.7	20.5	





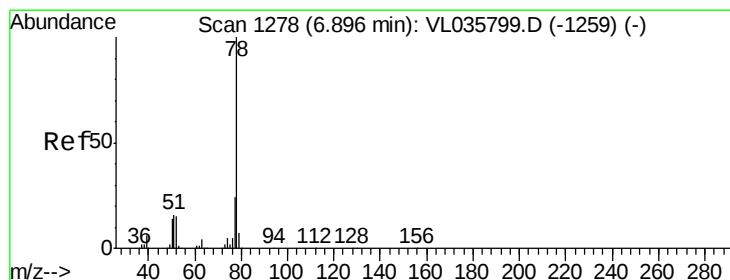
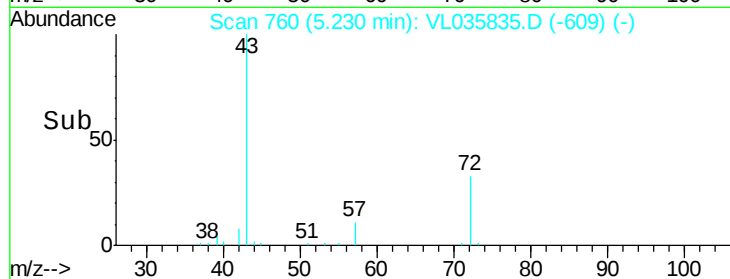
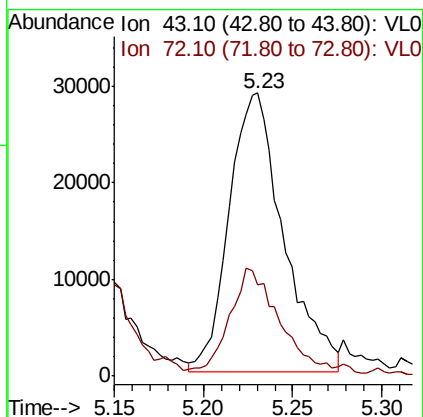
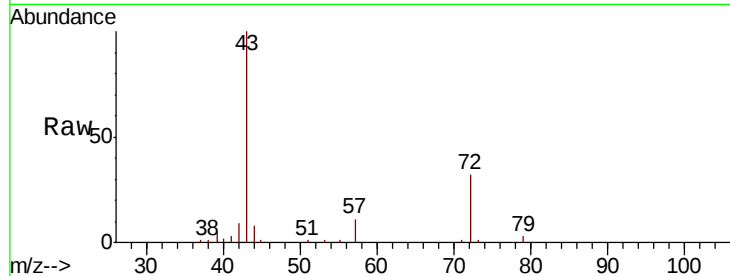
#34
2-Butanone
Concen: 0.397 ppbv
RT: 5.23 min Scan# 760
Delta R.T. -0.01 min
Lab File: VL035835.D
Acq: 4 Nov 2020 16:11

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tot Ion	Ratio	Lower	Upper
43	100		
72	34.7	26.5	39.7

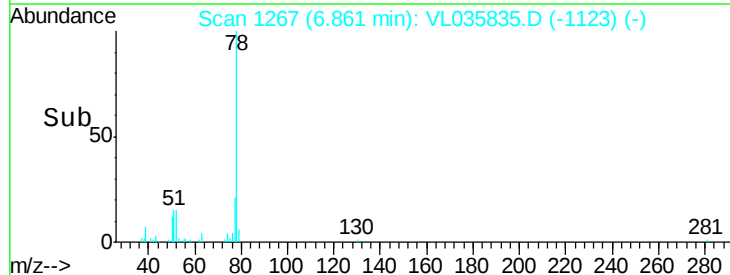
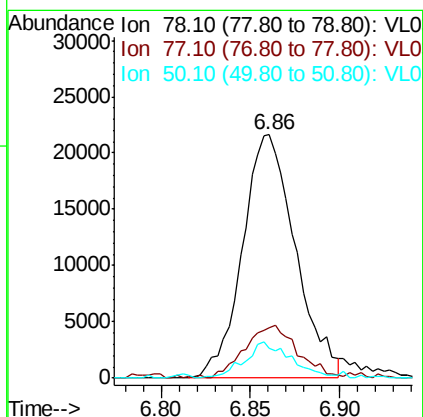
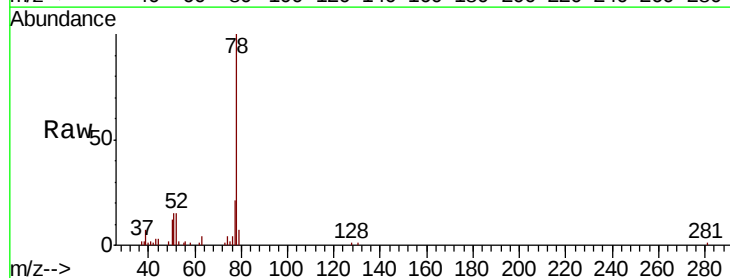
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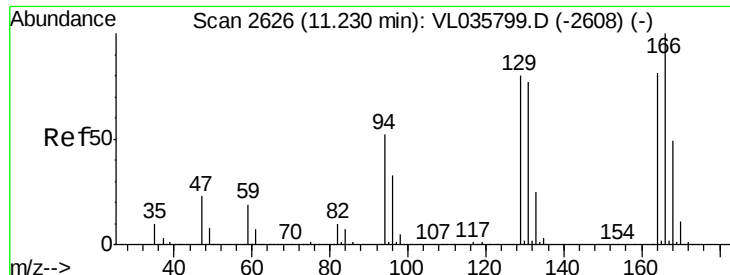
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#36
Benzene
Concen: 0.126 ppbv
RT: 6.86 min Scan# 1267
Delta R.T. -0.04 min
Lab File: VL035835.D
Acq: 4 Nov 2020 16:11

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.8	19.3	28.9
50	11.1	11.4	17.2#





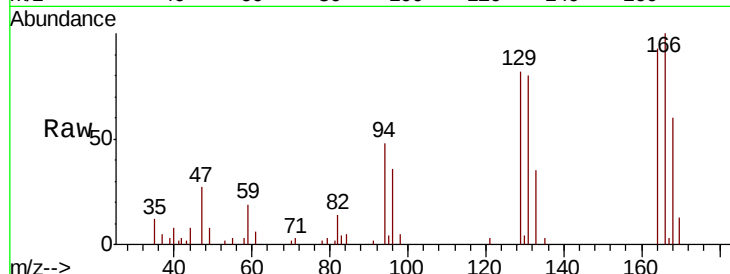
#52
Tetrachloroethene
Concen: 0.093 ppbv m
RT: 11.19 min Scan# 2615
Delta R.T. -0.04 min
Lab File: VL035835.D
Acq: 4 Nov 2020 16:11

Instrument :
MSVOA_L
ClientSampled :
SV3

Tot Ion	Ratio	Lower	Upper
164	100		
166	107.7	99.3	148.9
129	87.9	79.3	118.9
131	85.7	76.5	114.7

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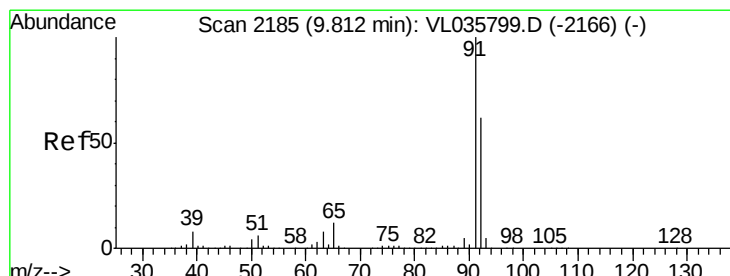
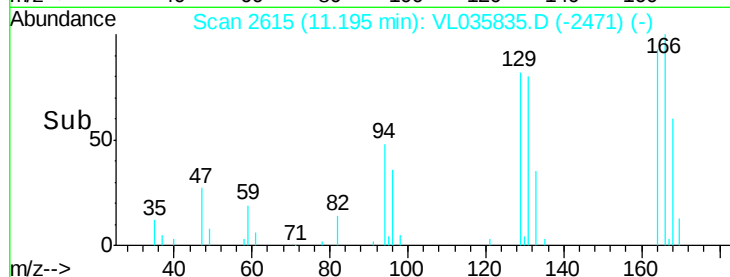
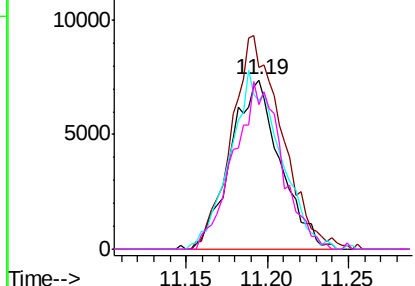
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

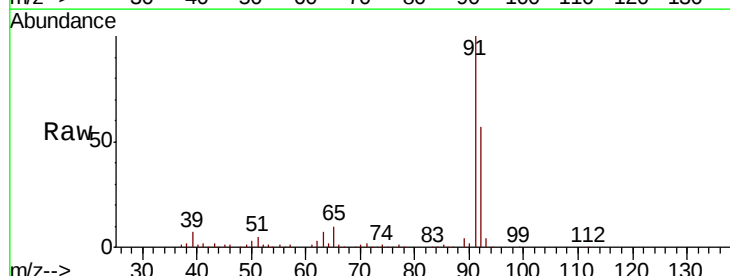
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53
Toluene
Concen: 0.871 ppbv
RT: 9.77 min Scan# 2172
Delta R.T. -0.04 min
Lab File: VL035835.D
Acq: 4 Nov 2020 16:11

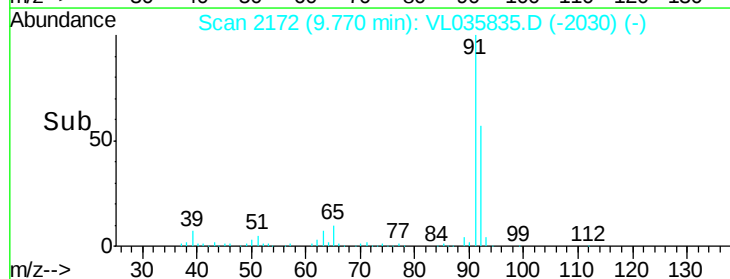
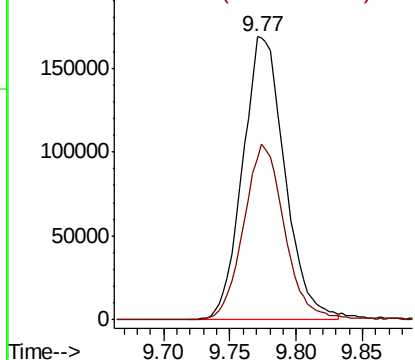
Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.8	49.8	74.6

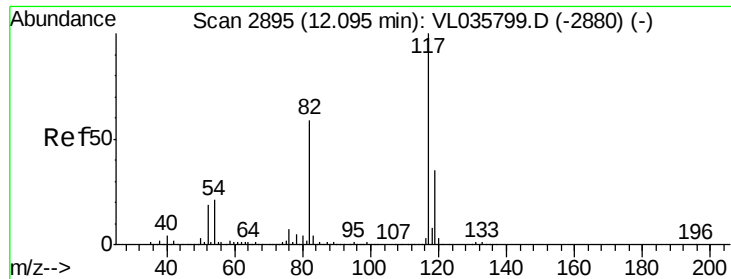


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





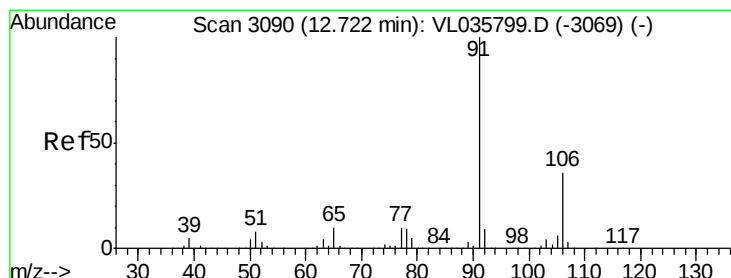
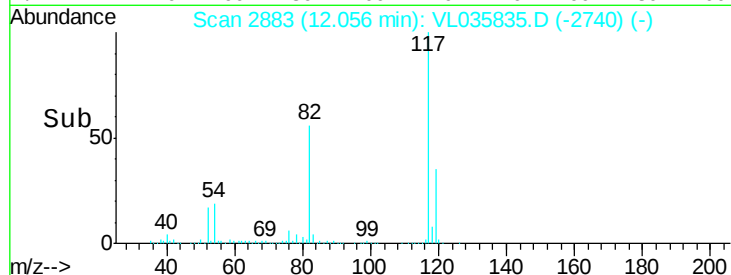
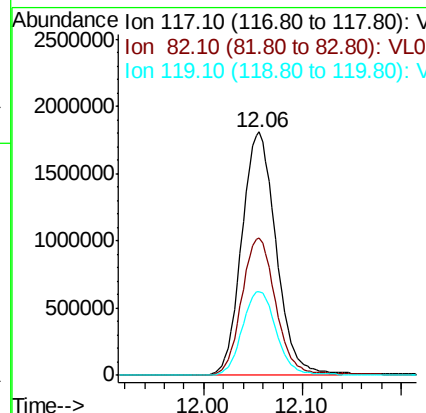
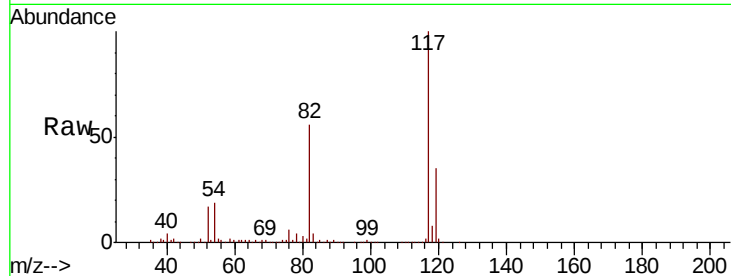
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2883
Delta R.T. -0.04 min
Lab File: VL035835.D
Acq: 4 Nov 2020 16:11

Instrument :
MSVOA_L
ClientSampled :
SV3

Tot Ion:117 Resp: 4369210
Ion Ratio Lower Upper
117 100
82 57.3 50.6 76.0
119 34.6 52.6 78.8#

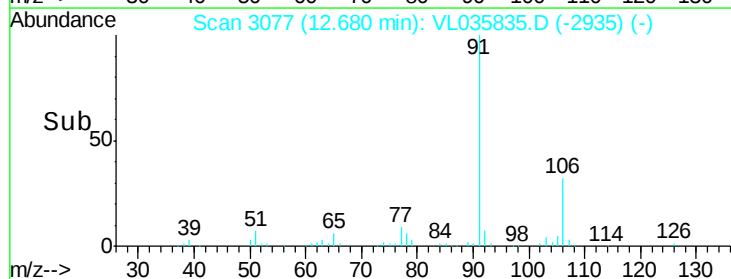
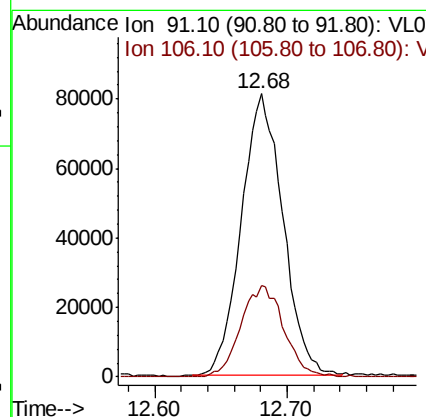
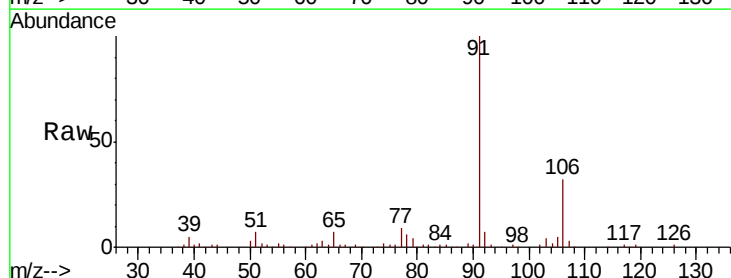
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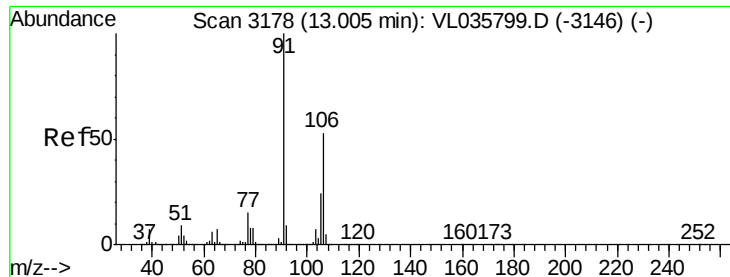
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#58
Ethyl Benzene
Concen: 0.333 ppbv
RT: 12.68 min Scan# 3077
Delta R.T. -0.04 min
Lab File: VL035835.D
Acq: 4 Nov 2020 16:11

Tgt Ion: 91 Resp: 177127
Ion Ratio Lower Upper
91 100
106 32.5 28.6 43.0





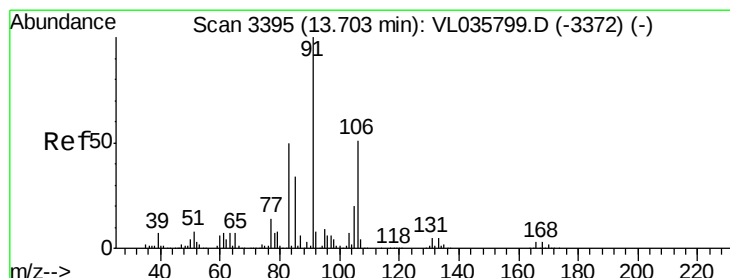
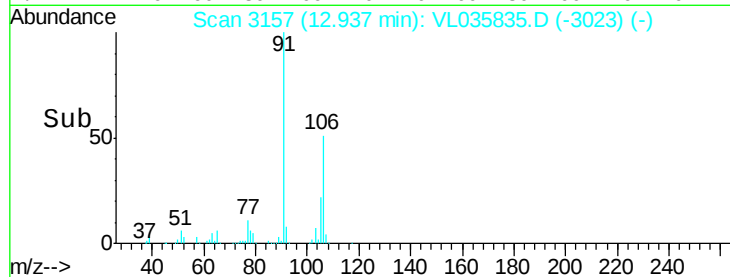
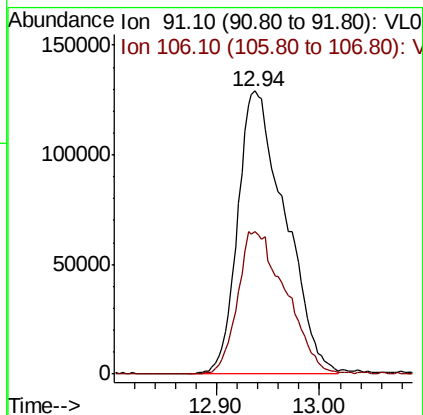
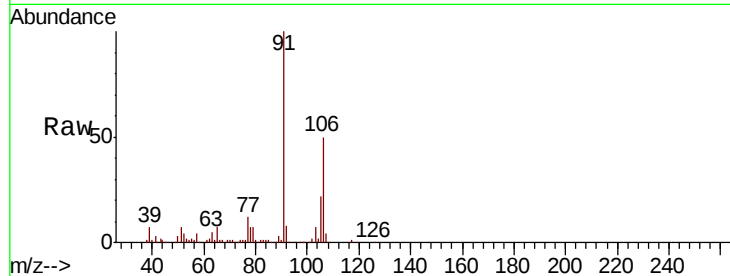
#59
m/p-Xylene
Concen: 0.913 ppbv
RT: 12.94 min Scan# 3157
Delta R.T. -0.07 min
Lab File: VL035835.D
Acq: 4 Nov 2020 16:11

Instrument :
MSVOA_L
ClientSampled :
SV3

Tot Ion: 91 Resp: 410923
Ion Ratio Lower Upper
91 100
106 51.4 39.5 59.3

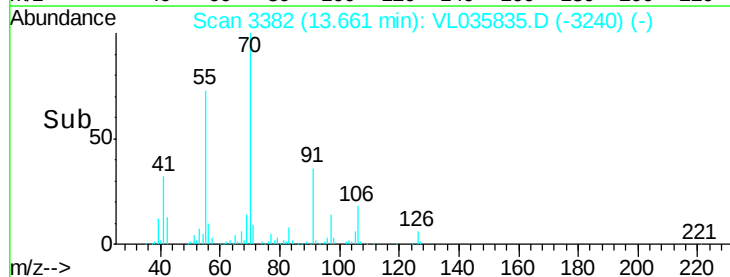
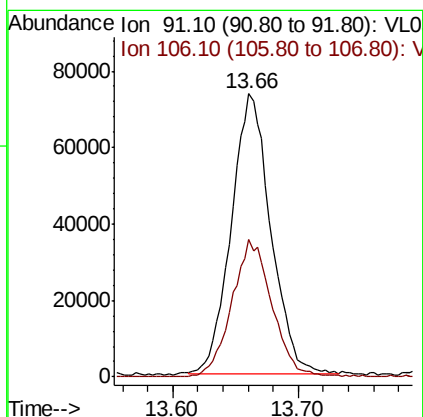
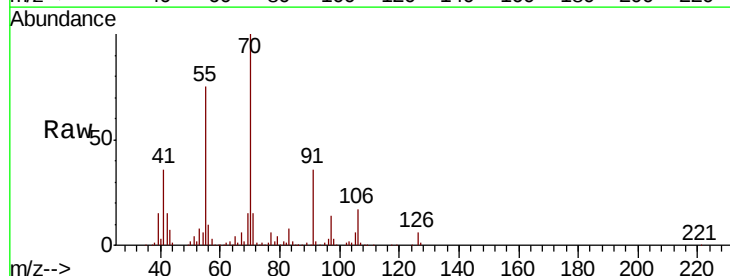
Manual Integrations
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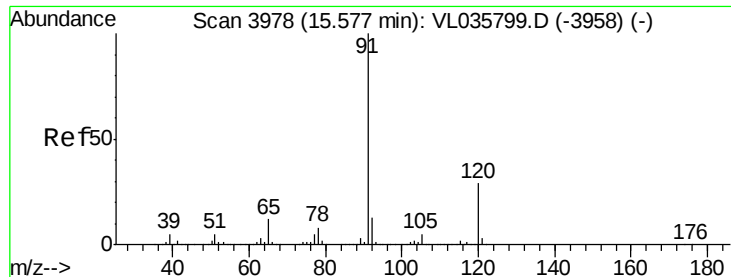
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#60
o-Xylene
Concen: 0.364 ppbv
RT: 13.66 min Scan# 3382
Delta R.T. -0.04 min
Lab File: VL035835.D
Acq: 4 Nov 2020 16:11

Tgt Ion: 91 Resp: 159416
Ion Ratio Lower Upper
91 100
106 50.0 24.8 74.4





#64

n-propylbenzene

Concen: 0.153 ppbv

RT: 15.53 min Scan# 3964

Delta R.T. -0.05 min

Lab File: VL035835.D

Acq: 4 Nov 2020 16:11

Instrument :

MSVOA_L

ClientSampled :

SV3

Tot Ion:120 Resp: 30363

Ion Ratio Lower Upper

120 100

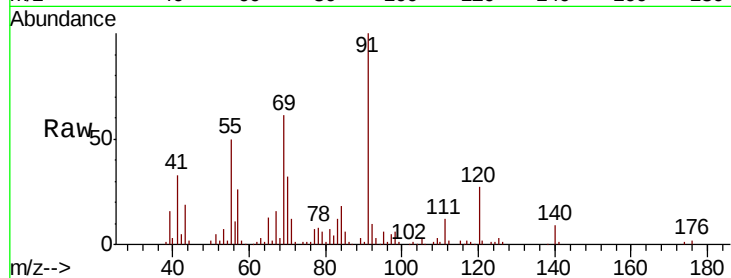
91 446.7 311.1 466.7

Manual Integrations

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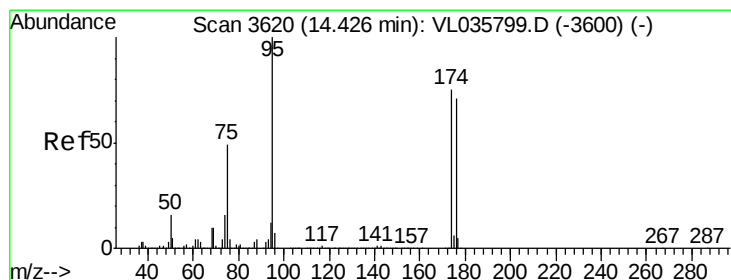
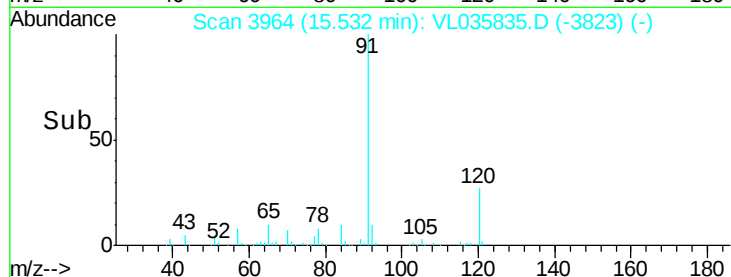
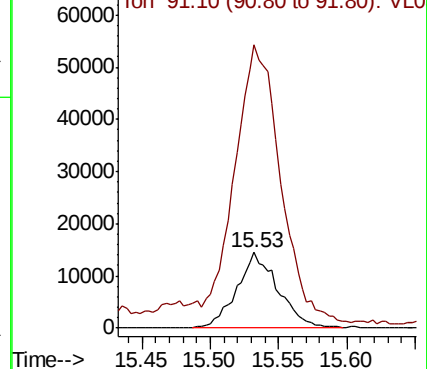
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Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.062 ppbv

RT: 14.39 min Scan# 3608

Delta R.T. -0.04 min

Lab File: VL035835.D

Acq: 4 Nov 2020 16:11

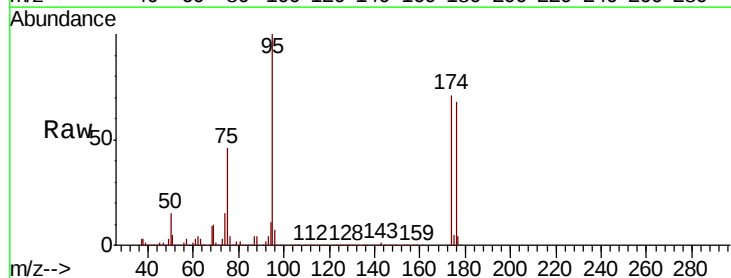
Tgt Ion: 95 Resp: 3123338

Ion Ratio Lower Upper

95 100

174 73.2 59.8 89.6

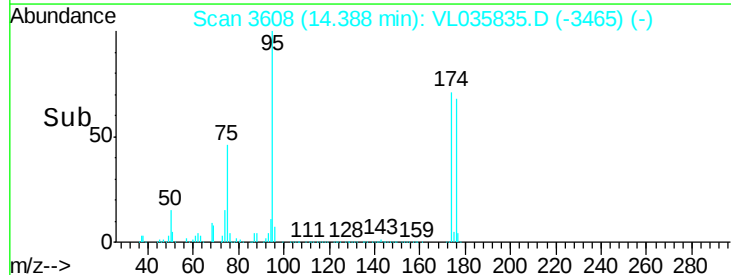
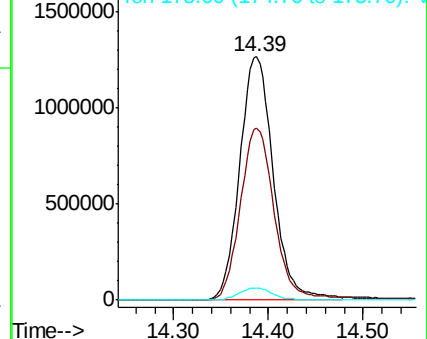
175 5.2 4.3 6.5

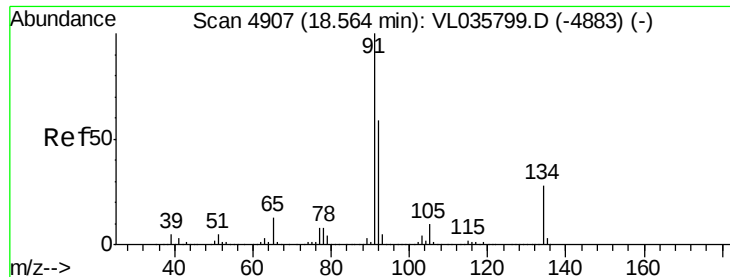


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





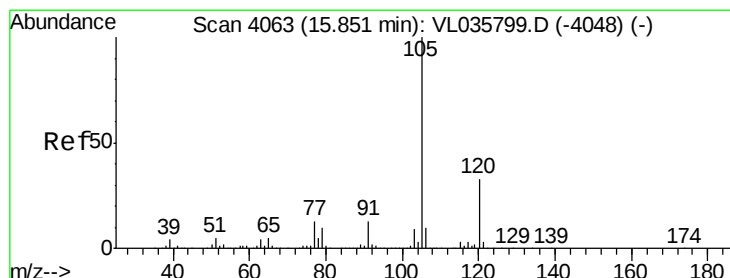
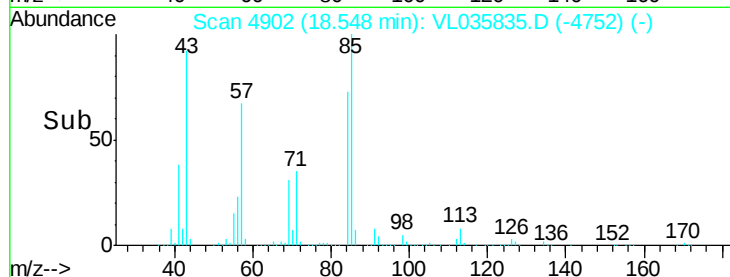
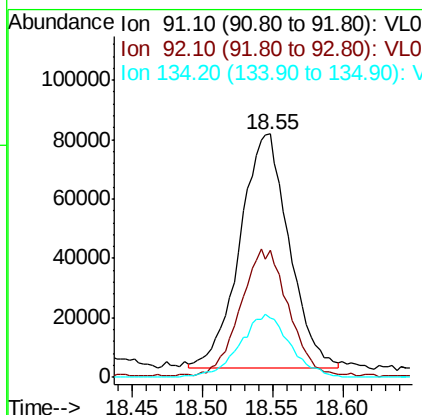
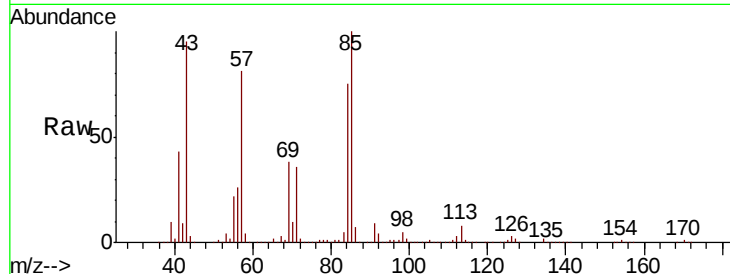
#70
n-Butylbenzene
Concen: 0.288 ppbv
RT: 18.55 min Scan# 4902
Delta R.T. -0.02 min
Lab File: VL035835.D
Acq: 4 Nov 2020 16:11

Instrument :
MSVOA_L
ClientSampled :
SV3

Tot Ion	Ratio	Resp	Lower	Upper
91	100	193297		
92	53.7	45.7	68.5	
134	27.5	21.0	31.4	

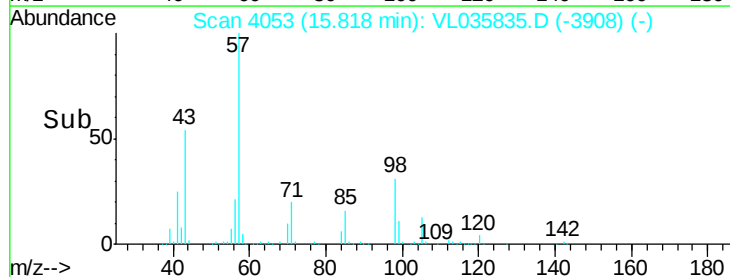
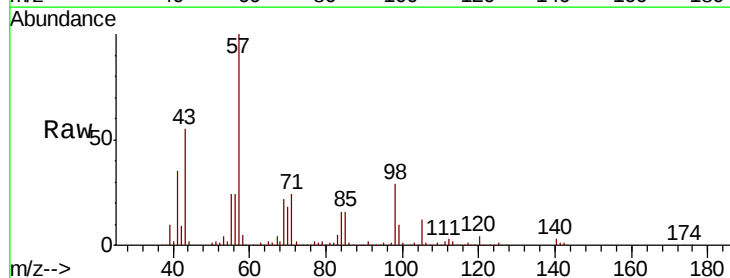
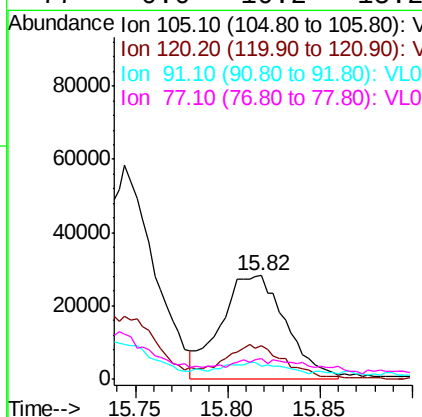
Manual Integrations
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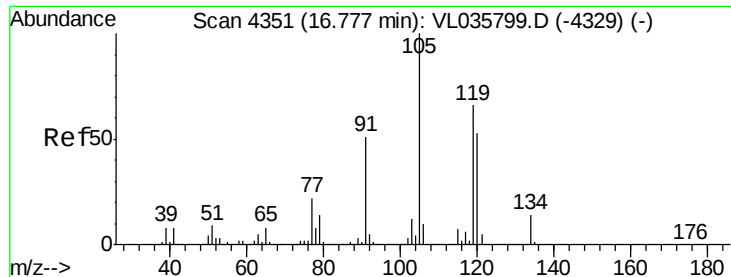
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#72
4-Ethyltoluene
Concen: 0.130 ppbv m
RT: 15.82 min Scan# 4053
Delta R.T. -0.03 min
Lab File: VL035835.D
Acq: 4 Nov 2020 16:11

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	68990		
120	31.7	25.9	38.9	
91	10.3	9.9	14.9	
77	0.0	10.2	15.2#	





#74
 1,2,4-Trimethylbenzene
 Concen: 0.279 ppbv m
 RT: 16.73 min Scan# 4338
 Delta R.T. -0.04 min
 Lab File: VL035835.D
 Acq: 4 Nov 2020 16:11

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	43.0	42.0	63.0
91	11.9	41.0	61.6#
77	16.6	17.3	25.9#

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