

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111220\
 Data File : VL035935.D
 Acq On : 13 Nov 2020 5:11
 Operator : SY/AP
 Sample : L4721-06DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LA-6DL

Manual Integrations
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 11/16/2020 2:31:36 PM

Quant Time: Nov 13 07:41:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-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	5.66	49	1033313	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3808463	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3501369	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2626086	10.56	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	45884	0.236	ppbv	100
3) Chlorodifluoromethane	2.98	51	53634m	0.433	ppbv	
4) Chloromethane	3.13	50	35006	0.582	ppbv	94
9) Propene	3.01	41	61658	1.361	ppbv	84
10) Heptane	8.13	43	31536m	0.252	ppbv	
11) Trichlorofluoromethane	3.94	101	67715	0.277	ppbv	93
13) Ethanol	3.60	45	230589	23.468	ppbv	99
15) Acetone	3.84	43	630060	5.703	ppbv #	87
19) Isopropyl Alcohol	3.97	45	112682	1.660	ppbv #	79
20) Methylene Chloride	4.34	84	219536	2.823	ppbv	96
26) Hexane	5.68	57	550555	4.587	ppbv #	47
30) Cyclohexane	7.13	84	48679m	0.372	ppbv	
34) 2-Butanone	5.24	43	46060	0.373	ppbv	100
35) Carbon Tetrachloride	7.01	117	14754m	0.073	ppbv	
36) Benzene	6.89	78	104997m	0.371	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	195029	0.521	ppbv #	80
52) Tetrachloroethene	11.22	164	10241	0.076	ppbv #	89
53) Toluene	9.81	91	1857381	5.437	ppbv	97
58) Ethyl Benzene	12.71	91	52930	0.124	ppbv	94
59) m/p-Xylene	12.97	91	172245	0.477	ppbv	100
60) o-Xylene	13.69	91	61881	0.176	ppbv	94
74) 1,2,4-Trimethylbenzene	16.77	105	73049	0.175	ppbv #	68

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

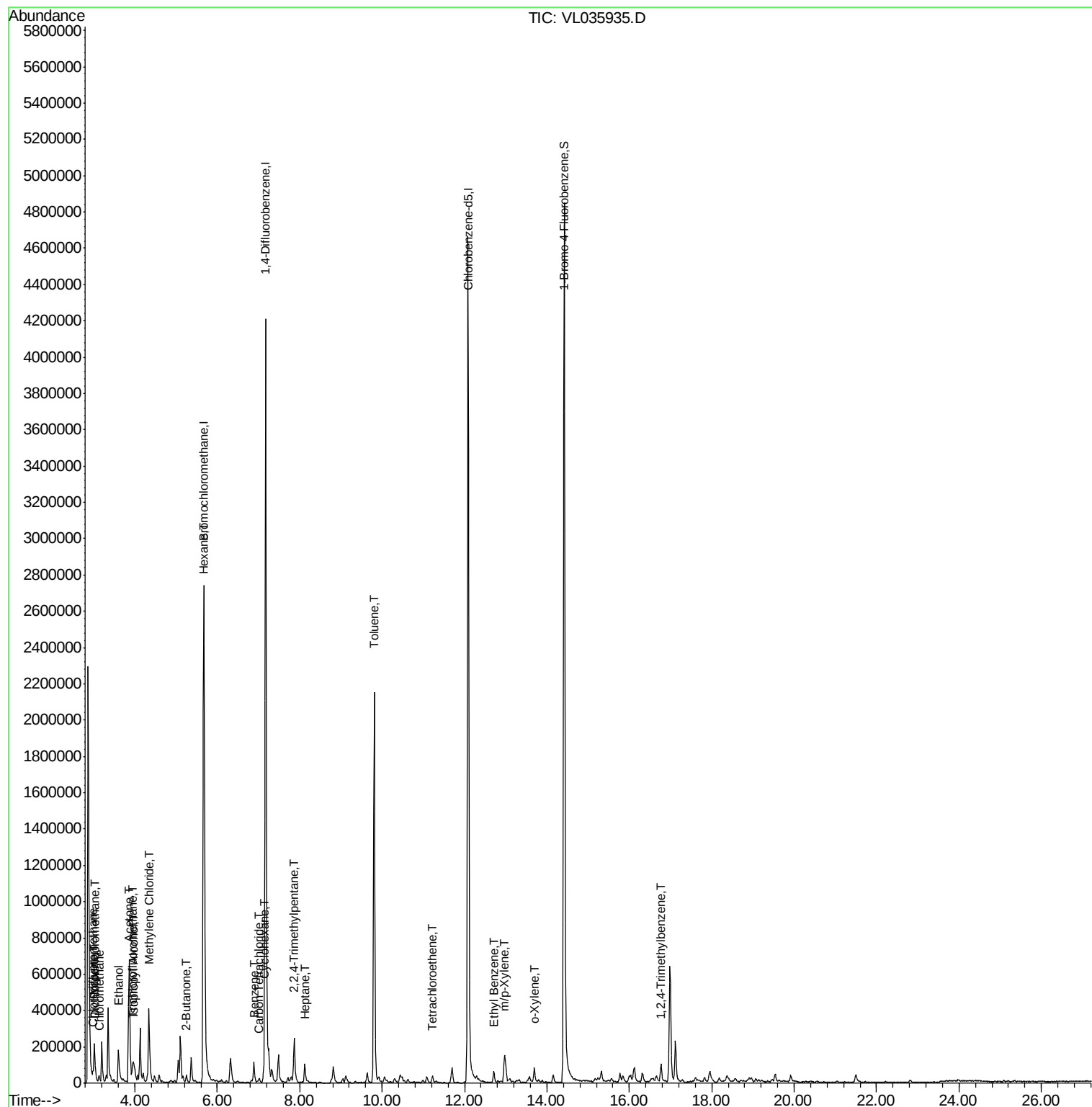
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111220\
Data File : VL035935.D
Acq On : 13 Nov 2020 5:11
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Misc : 400ml/MSVOA L
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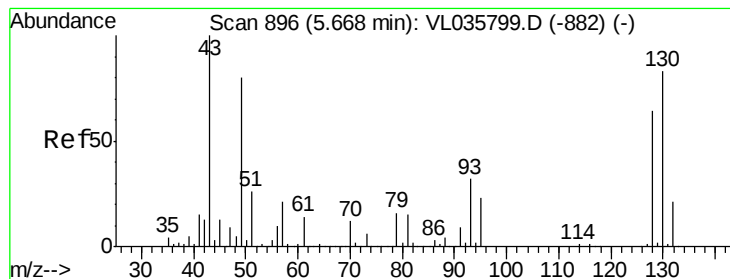
Instrument :
MSVOA_L
ClientSampleId :
LA-6DL

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Quant Time: Nov 13 07:41:33 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: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL035935.D

Acq: 13 Nov 2020 5:11

Instrument :

MSVOA_L

ClientSampleId :

LA-6DL

Tot Ion: 49 Resp: 1033313

Ion Ratio Lower Upper

49 100

128 79.6 41.5 124.6

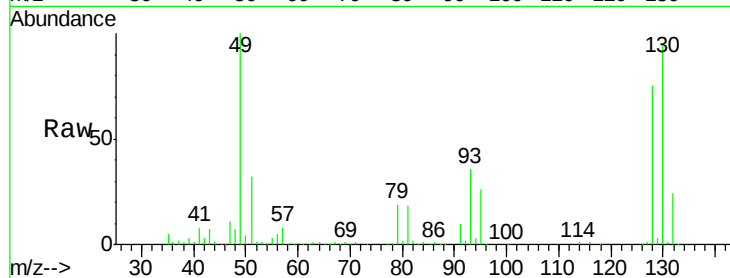
130 101.9 53.7 161.1

Manual Integrations

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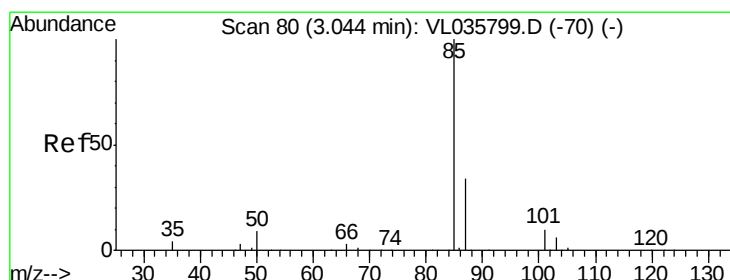
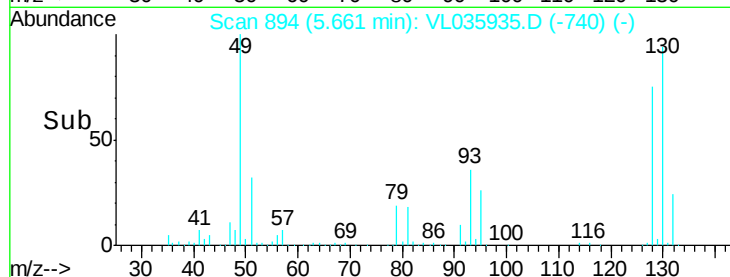
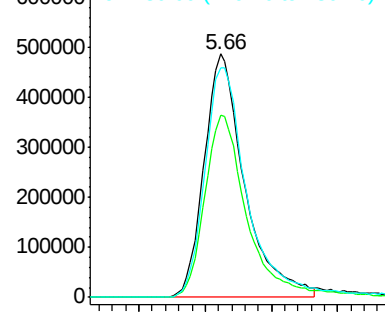
11/16/2020 2:31:36 PM



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: 0.236 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL035935.D

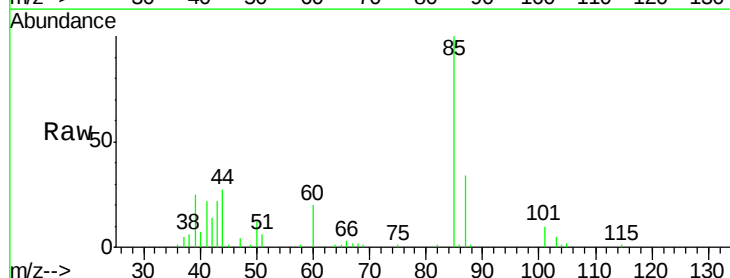
Acq: 13 Nov 2020 5:11

Tgt Ion: 85 Resp: 45884

Ion Ratio Lower Upper

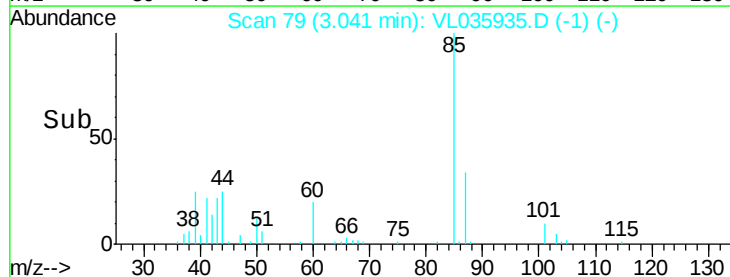
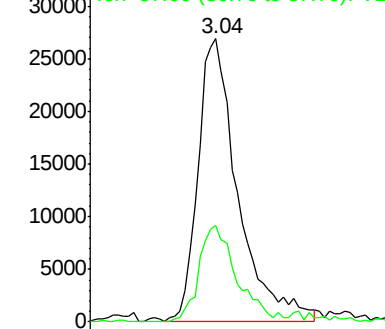
85 100

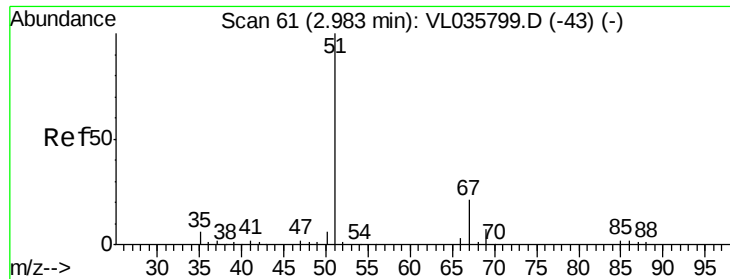
87 34.0 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.433 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.00 min

Lab File: VL035935.D

Acq: 13 Nov 2020 5:11

Instrument :

MSVOA_L

ClientSampleId :

LA-6DL

Tot Ion: 51 Resp: 53634

Ion Ratio Lower Upper

51 100

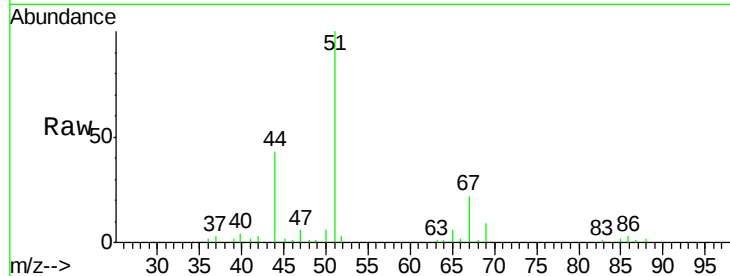
67 18.6 17.0 25.4

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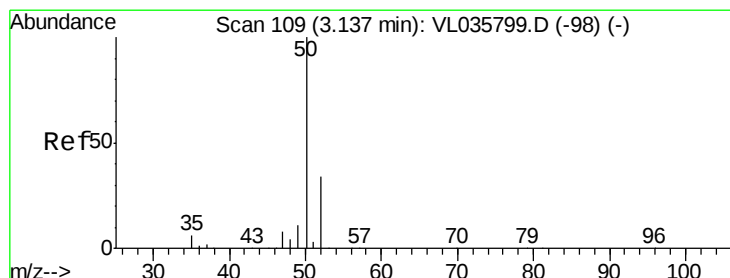
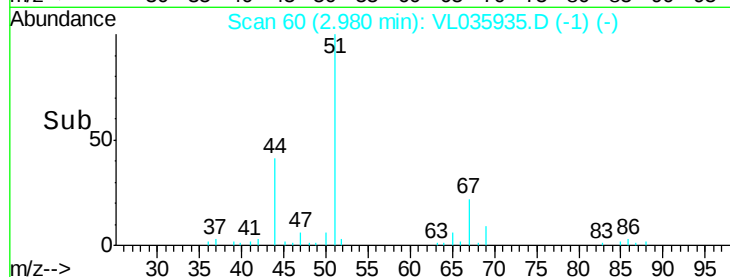
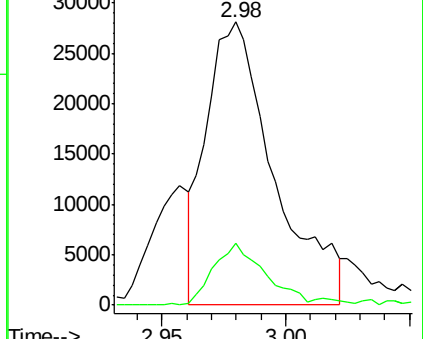
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.582 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL035935.D

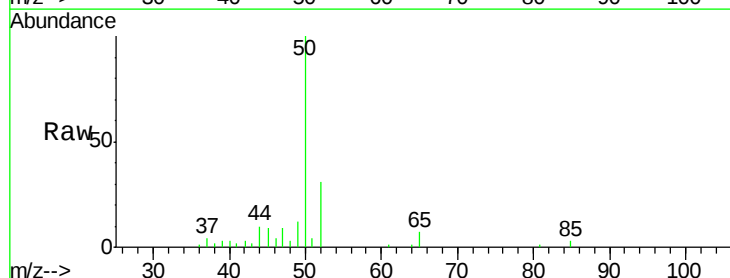
Acq: 13 Nov 2020 5:11

Tgt Ion: 50 Resp: 35006

Ion Ratio Lower Upper

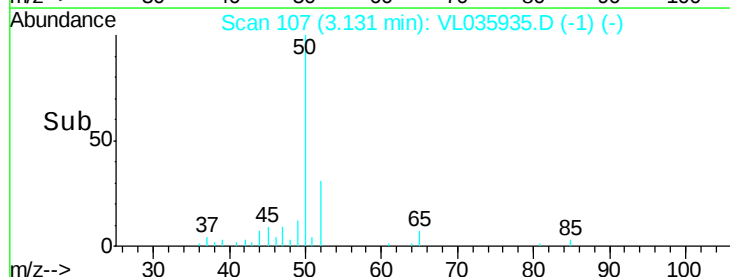
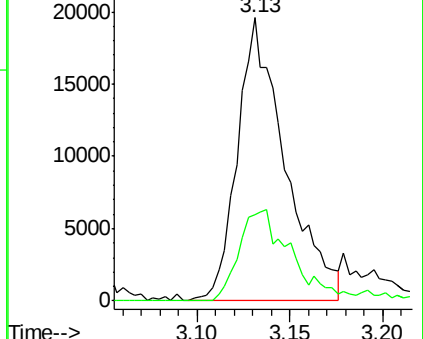
50 100

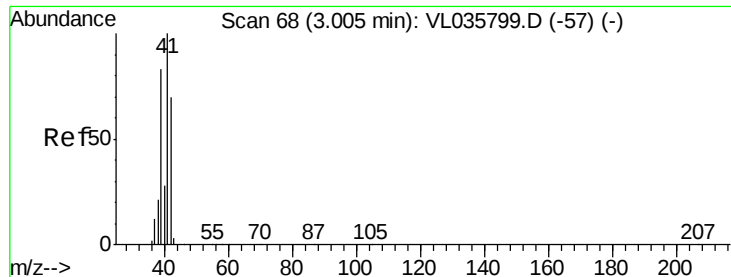
52 30.6 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.361 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL035935.D

Acq: 13 Nov 2020 5:11

Instrument :

MSVOA_L

ClientSampled :

LA-6DL

Tot Ion: 41 Resp: 61658

Ion Ratio Lower Upper

41 100

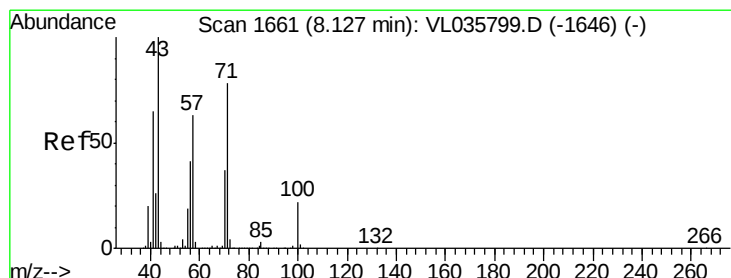
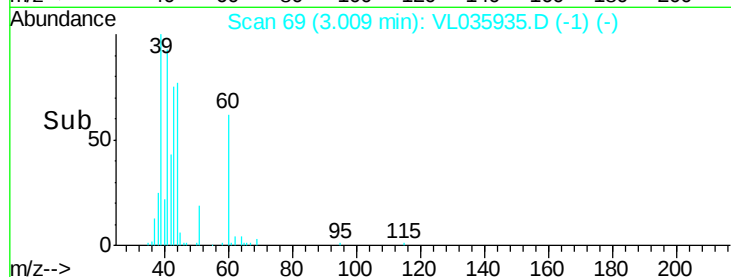
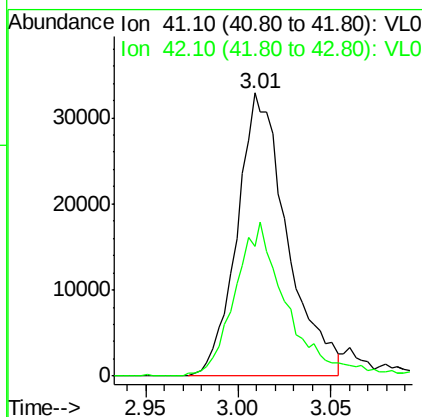
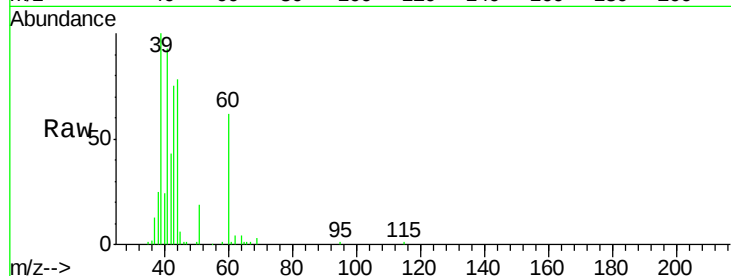
42 57.2 56.2 84.4

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#10

Heptane

Concen: 0.252 ppbv m

RT: 8.13 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VL035935.D

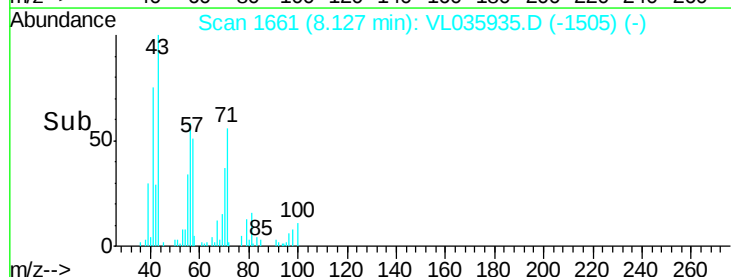
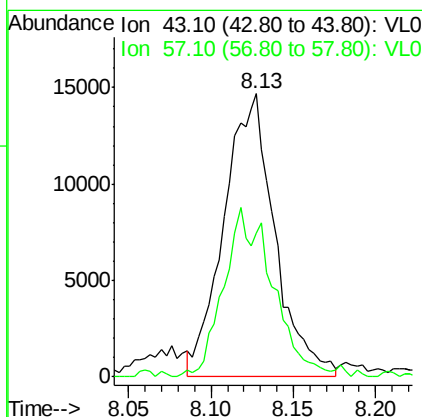
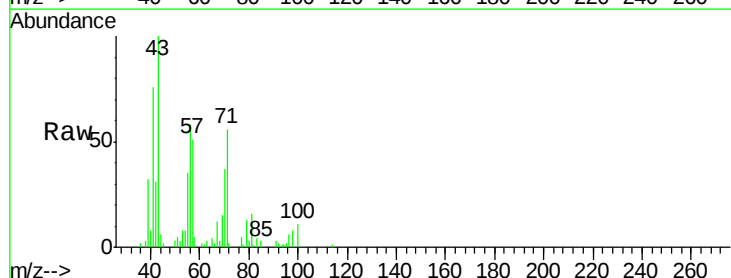
Acq: 13 Nov 2020 5:11

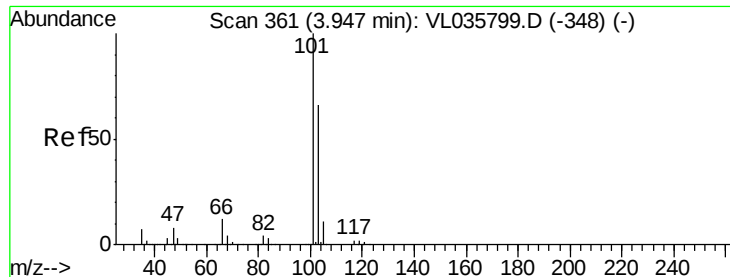
Tgt Ion: 43 Resp: 31536

Ion Ratio Lower Upper

43 100

57 59.2 50.0 75.0





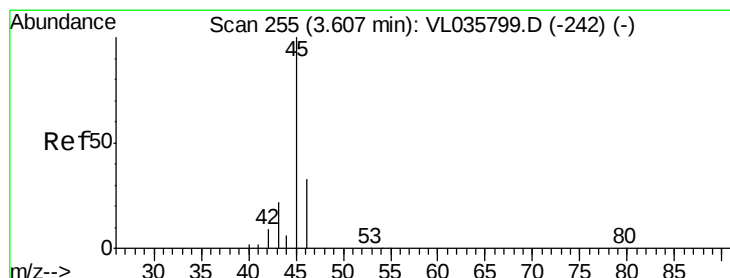
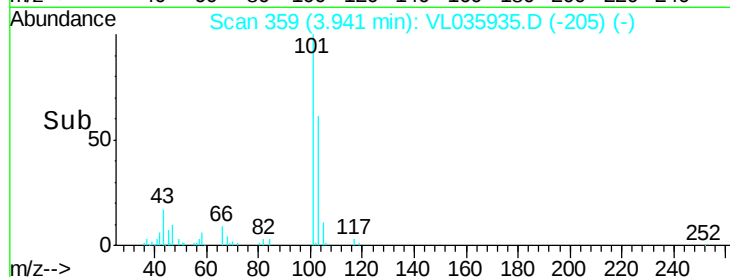
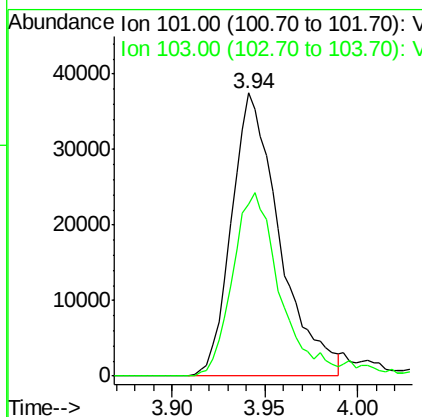
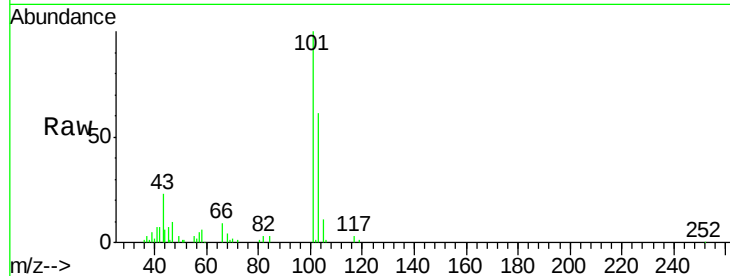
#11
 Trichlorofluoromethane
 Concen: 0.277 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. -0.01 min
 Lab File: VL035935.D
 Acq: 13 Nov 2020 5:11

Instrument :
 MSVOA_L
 ClientSampleId :
 LA-6DL

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.0	53.0	79.4

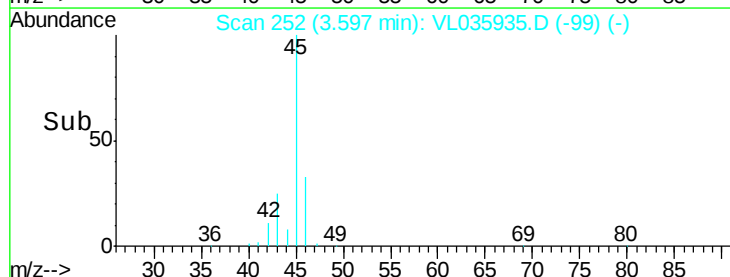
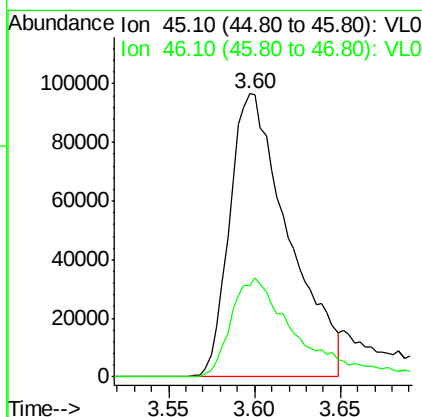
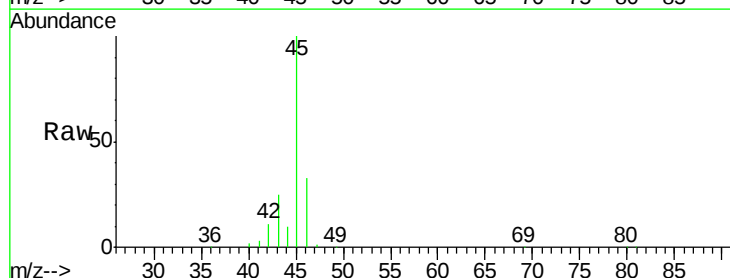
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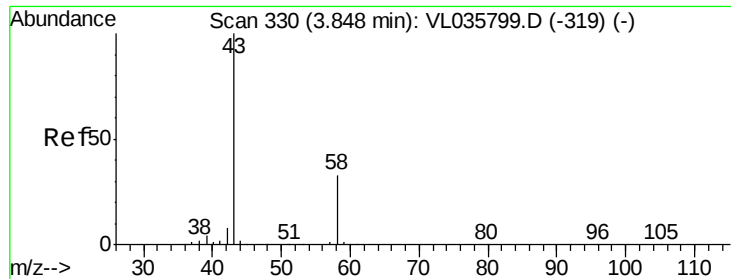
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#13
 Ethanol
 Concen: 23.468 ppbv
 RT: 3.60 min Scan# 252
 Delta R.T. -0.01 min
 Lab File: VL035935.D
 Acq: 13 Nov 2020 5:11

Tgt Ion	Ratio	Lower	Upper
45	100		
46	40.8	16.1	64.5





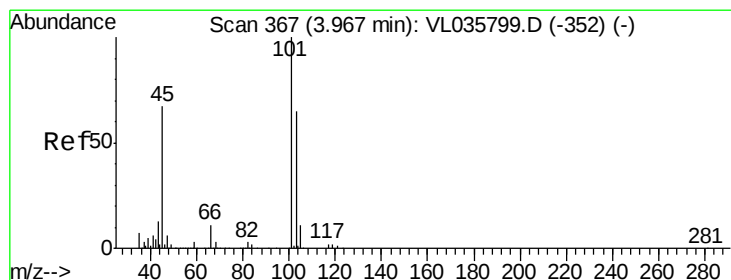
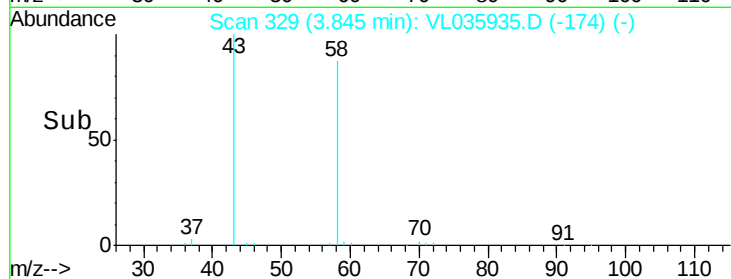
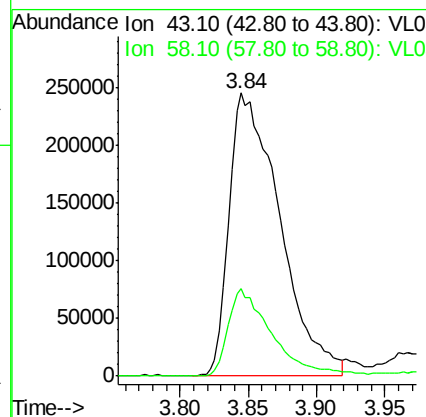
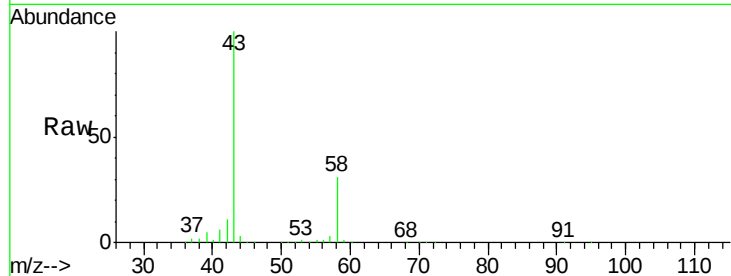
#15
Acetone
Concen: 5.703 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.00 min
Lab File: VL035935.D
Acq: 13 Nov 2020 5:11

Instrument :
MSVOA_L
ClientSampled :
LA-6DL

Tot Ion: 43 Resp: 630060
Ion Ratio Lower Upper
43 100
58 27.2 27.5 41.3#

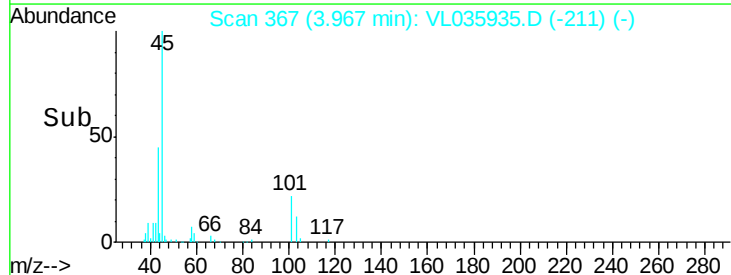
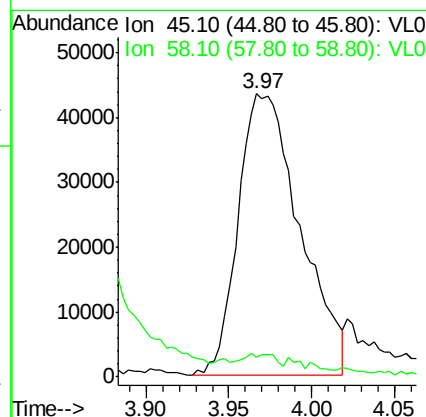
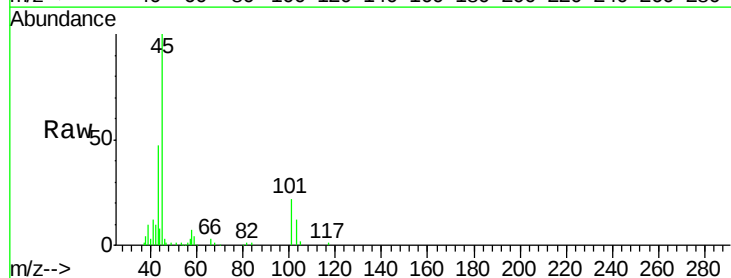
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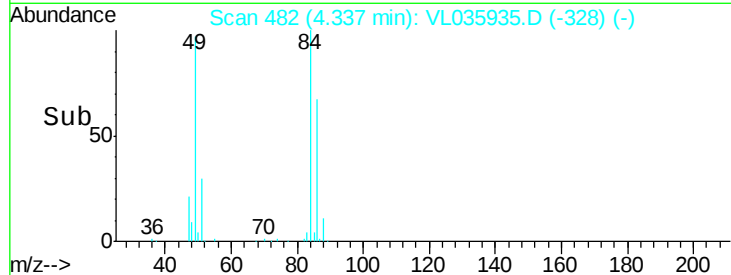
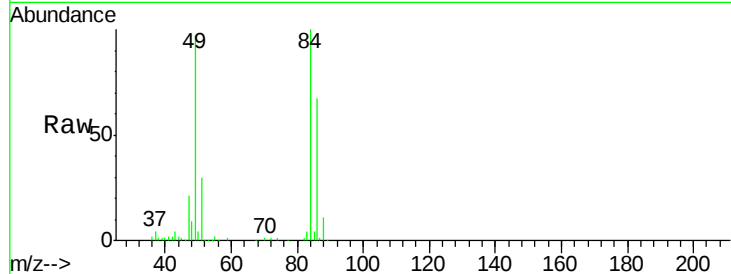
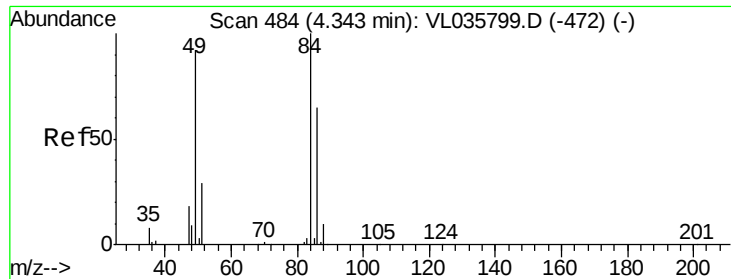
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#19
Isopropyl Alcohol
Concen: 1.660 ppbv
RT: 3.97 min Scan# 367
Delta R.T. 0.00 min
Lab File: VL035935.D
Acq: 13 Nov 2020 5:11

Tgt Ion: 45 Resp: 112682
Ion Ratio Lower Upper
45 100
58 10.0 2.6 3.8#





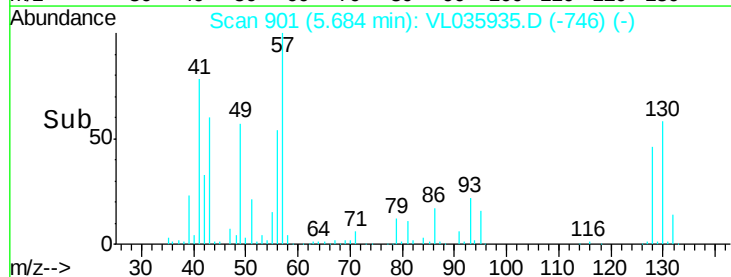
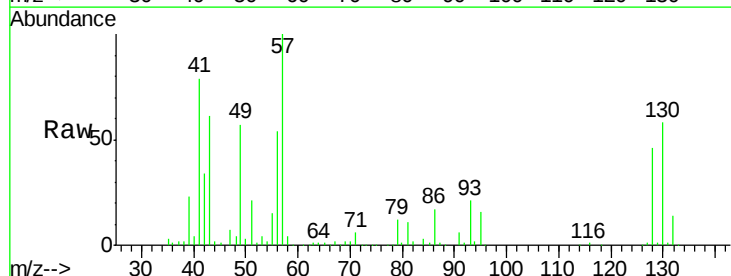
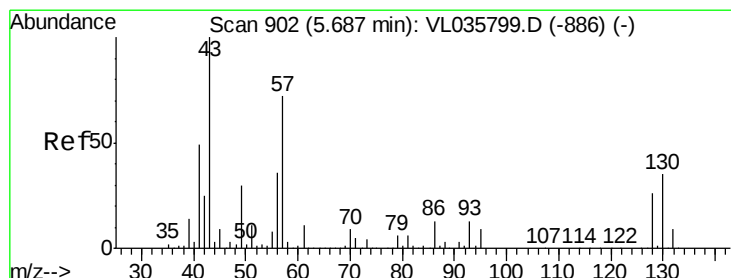
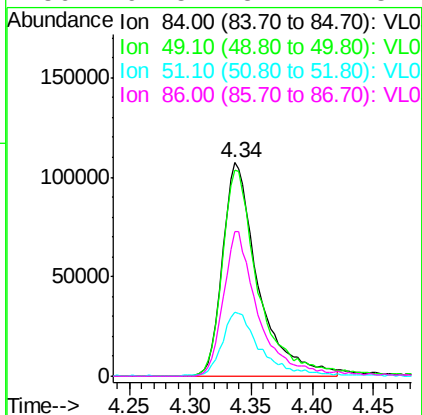
#20
Methvlene Chloride
Concen: 2.823 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL035935.D
Acq: 13 Nov 2020 5:11

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100		219536		
49	96.6	73.8	110.8		
51	29.9	23.0	34.4		
86	67.5	52.1	78.1		

Instrument :
MSVOA_L
ClientSampleId :
LA-6DL

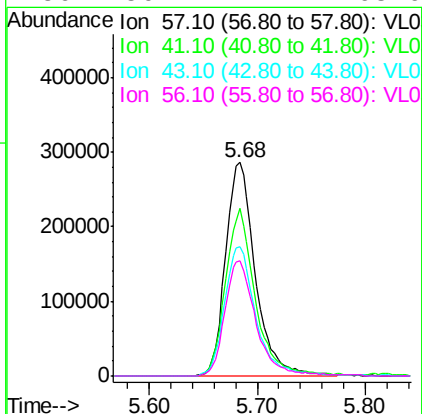
Manual Integrations
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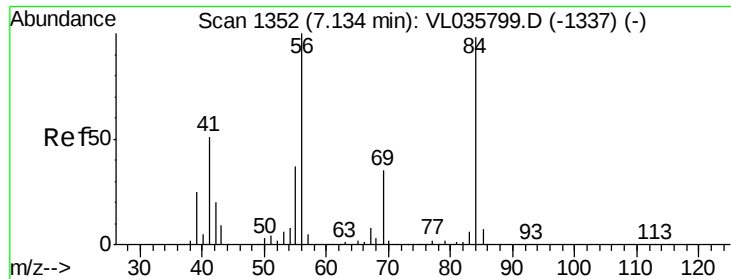
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#26
Hexane
Concen: 4.587 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL035935.D
Acq: 13 Nov 2020 5:11

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		550555		
41	79.1	58.9	88.3		
43	63.7	150.2	225.2#		
56	56.7	42.4	63.6		





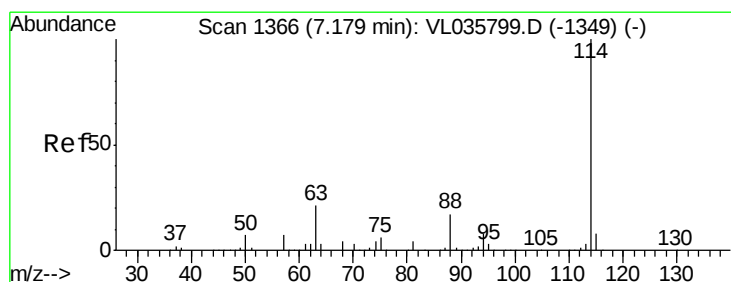
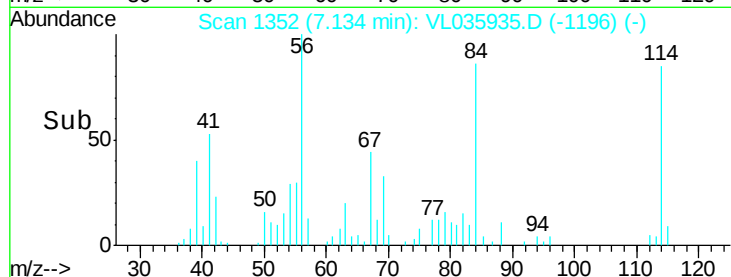
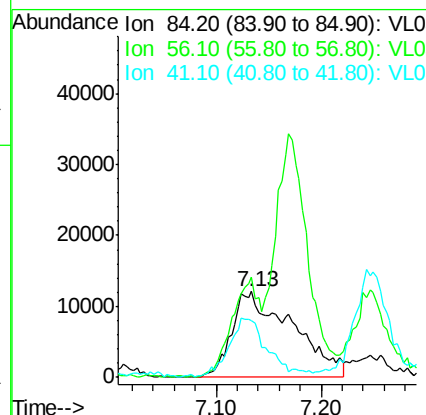
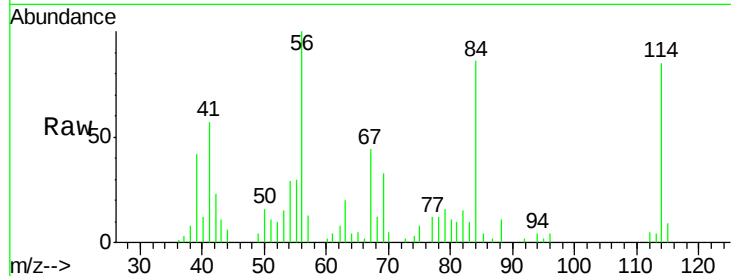
#30
Cyclohexane
Concen: 0.372 ppbv m
RT: 7.13 min Scan# 1352
Delta R.T. 0.00 min
Lab File: VL035935.D
Acq: 13 Nov 2020 5:11

Instrument :
MSVOA_L
ClientSampled :
LA-6DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	86.4	129.6#
41	44.9	42.1	63.1

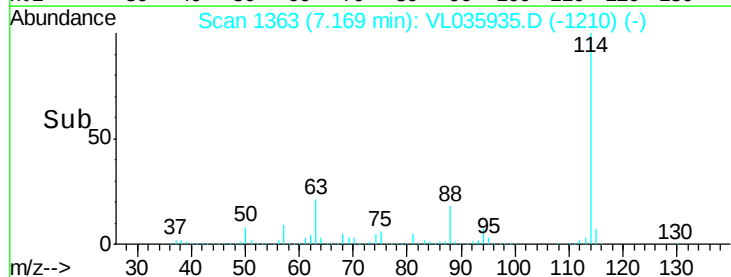
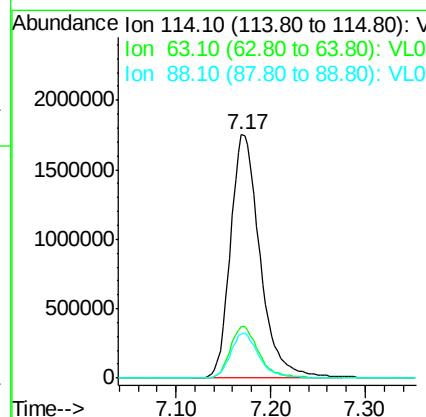
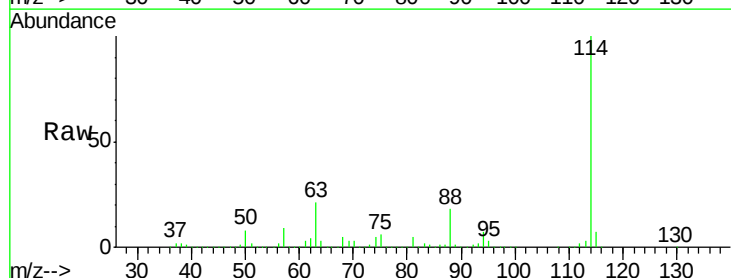
Manual Integrations
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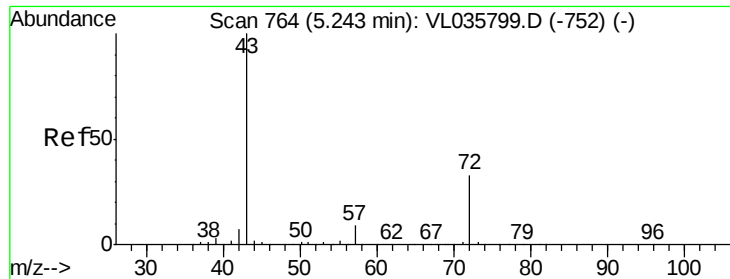
MMDadoda
11/16/2020 2:31:36 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL035935.D
Acq: 13 Nov 2020 5:11

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.9	16.1	24.1
88	17.6	13.7	20.5





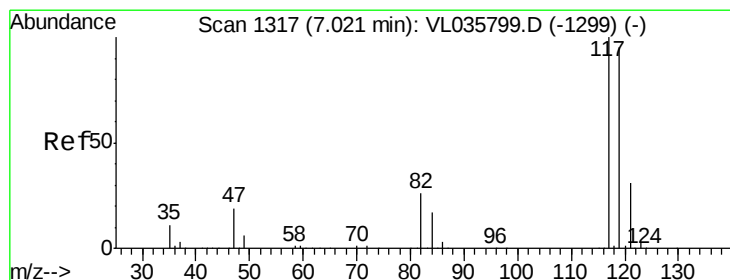
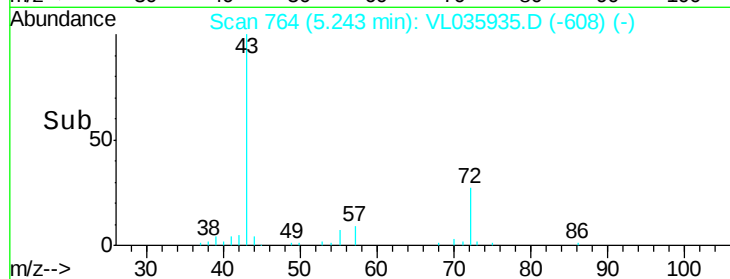
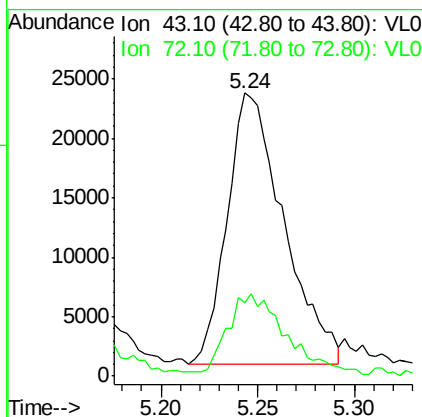
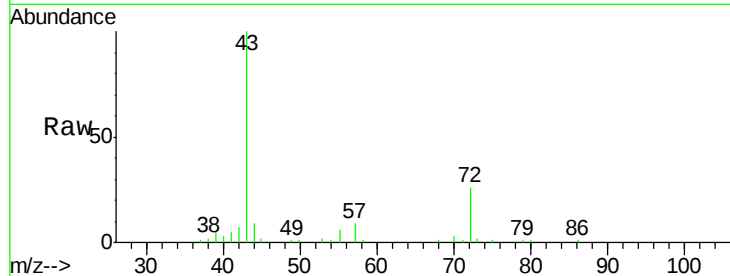
#34
2-Butanone
Concen: 0.373 ppbv
RT: 5.24 min Scan# 764
Delta R.T. 0.00 min
Lab File: VL035935.D
Acq: 13 Nov 2020 5:11

Instrument :
MSVOA_L
ClientSampled :
LA-6DL

Tot Ion	43	72	Resp	Lower	Upper
46060	100	32.8		26.5	39.7

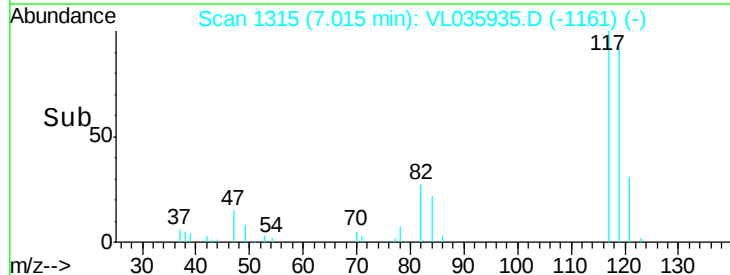
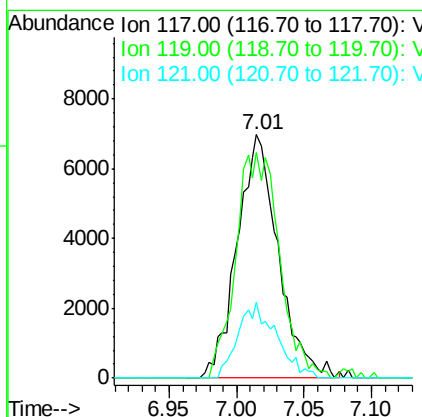
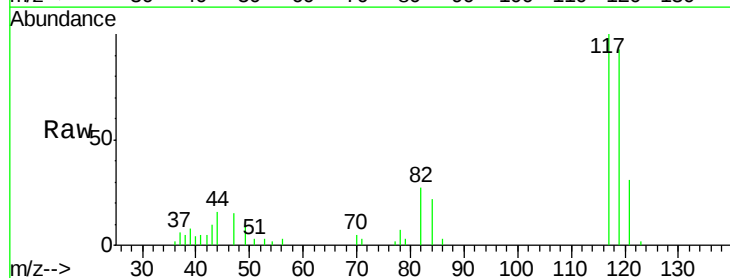
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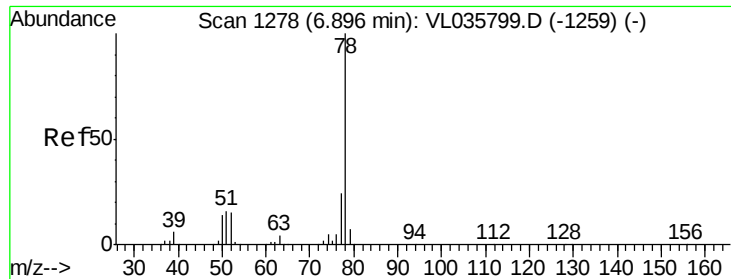
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#35
Carbon Tetrachloride
Concen: 0.073 ppbv m
RT: 7.01 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VL035935.D
Acq: 13 Nov 2020 5:11

Tgt Ion	117	119	121	Resp	Lower	Upper
14754	100	92.9	31.1		75.6	113.4
					25.1	37.7





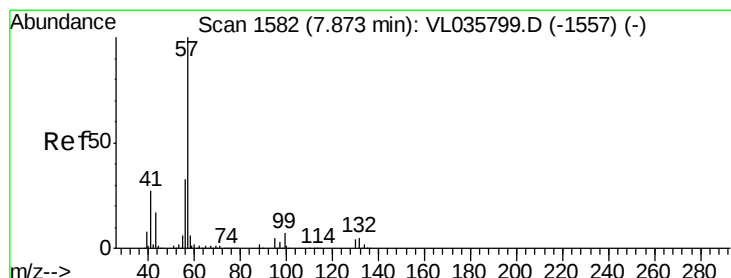
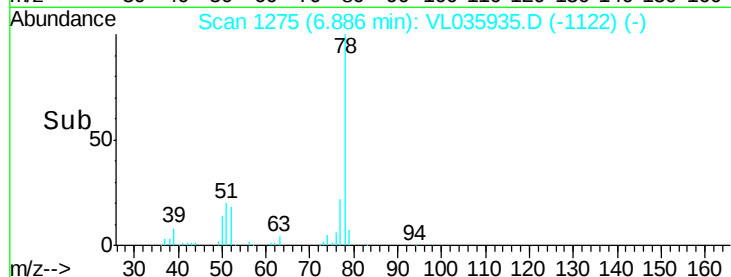
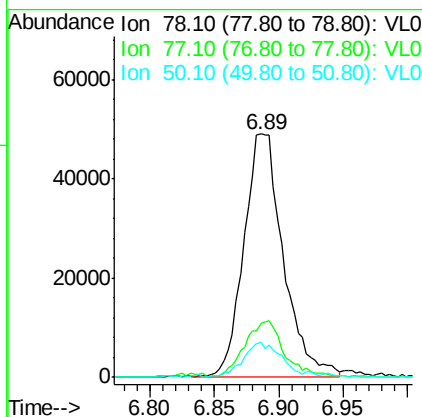
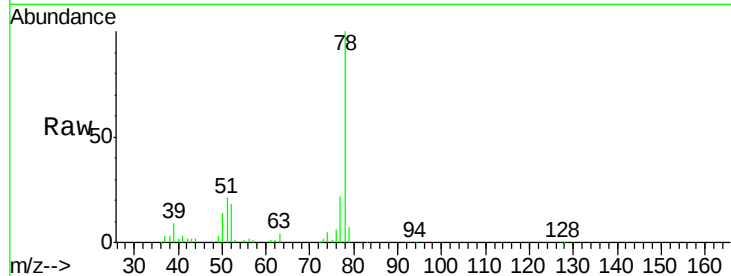
#36
Benzene
Concen: 0.371 ppbv m
RT: 6.89 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VL035935.D
Acq: 13 Nov 2020 5:11

Instrument :
MSVOA_L
ClientSampleId :
LA-6DL

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.2	19.3	28.9
50	14.5	11.4	17.2

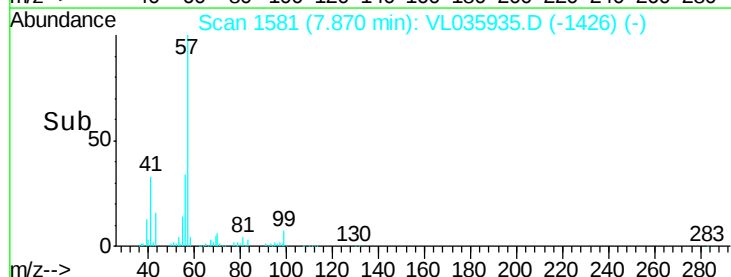
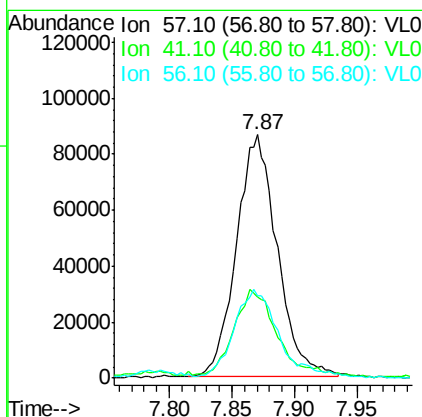
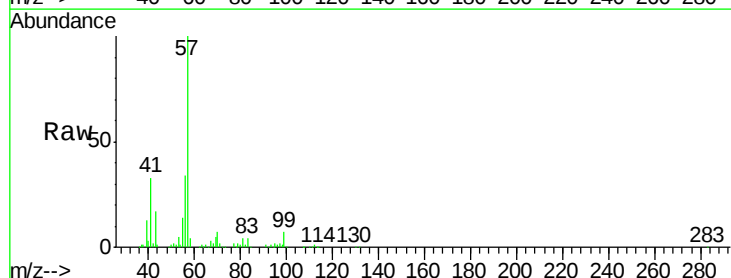
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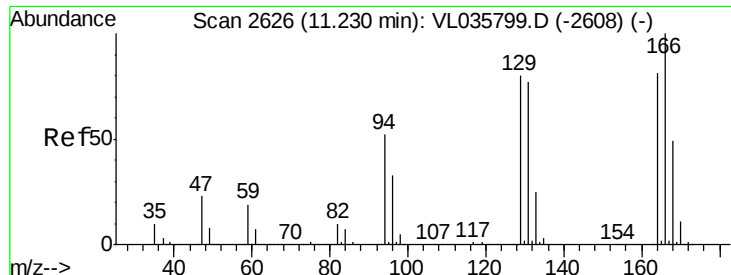
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#44
2,2,4-Trimethylpentane
Concen: 0.521 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. -0.00 min
Lab File: VL035935.D
Acq: 13 Nov 2020 5:11

Tgt Ion	Ratio	Lower	Upper
57	100		
41	38.6	21.0	31.4#
56	40.8	25.4	38.0#





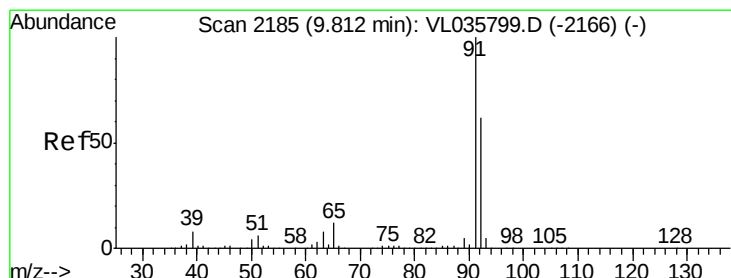
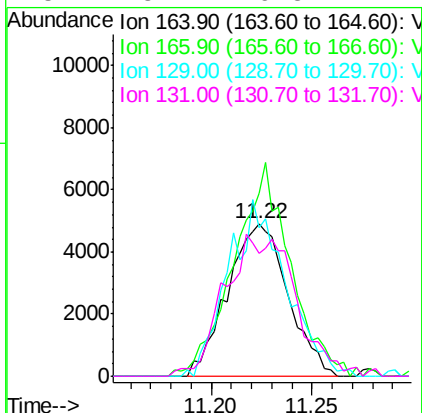
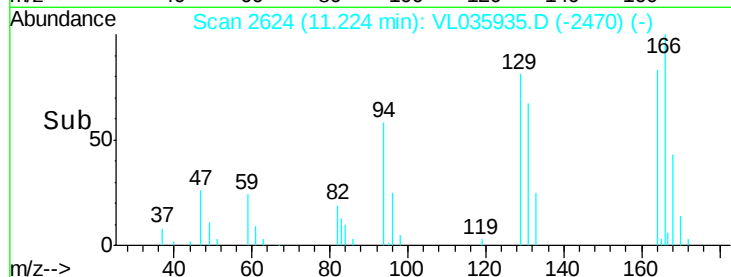
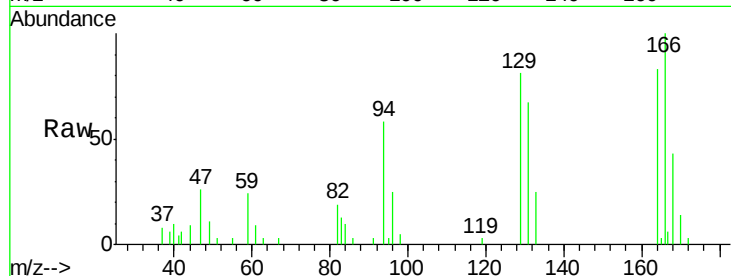
#52
Tetrachloroethene
Concen: 0.076 ppbv
RT: 11.22 min Scan# 2624
Delta R.T. -0.01 min
Lab File: VL035935.D
Acq: 13 Nov 2020 5:11

Instrument :
MSVOA_L
ClientSampled :
LA-6DL

Tot Ion	Ratio	Lower	Upper
164	100		
166	115.7	99.3	148.9
129	93.9	79.3	118.9
131	75.1	76.5	114.7#

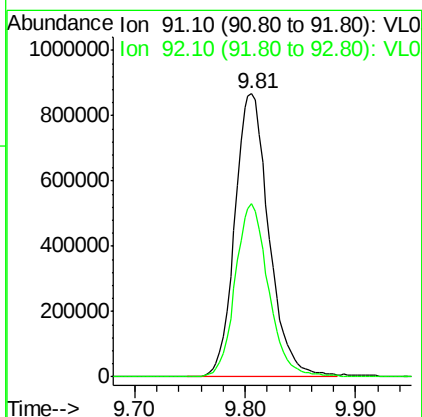
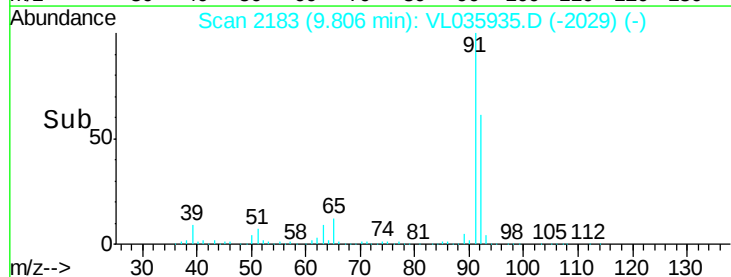
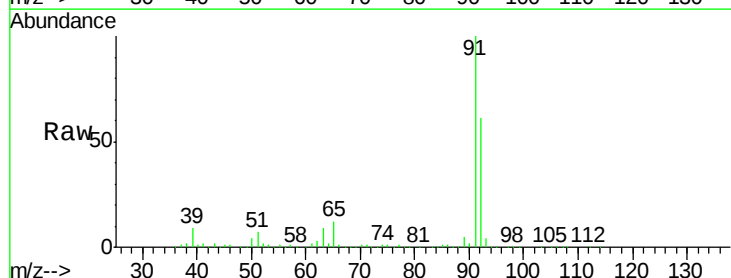
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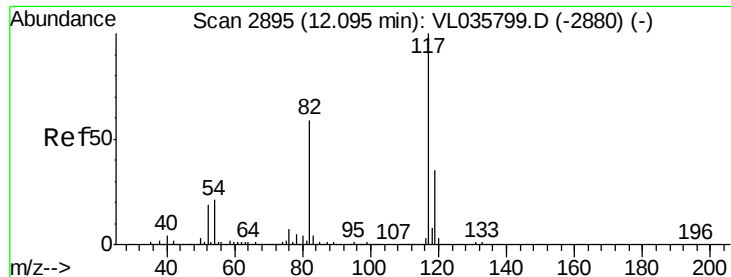
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#53
Toluene
Concen: 5.437 ppbv
RT: 9.81 min Scan# 2183
Delta R.T. -0.01 min
Lab File: VL035935.D
Acq: 13 Nov 2020 5:11

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.2	49.8	74.6





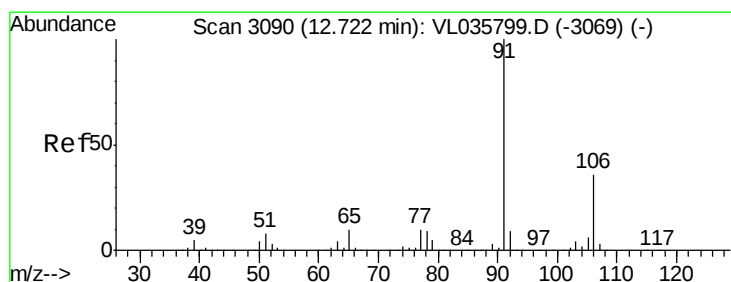
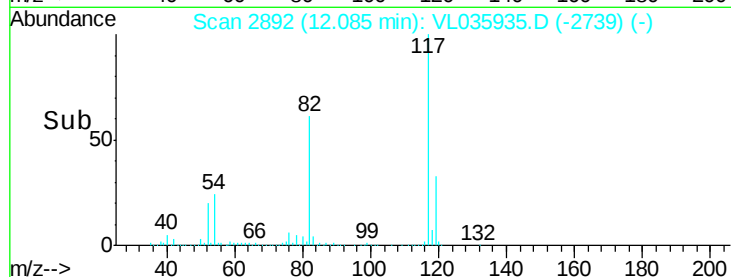
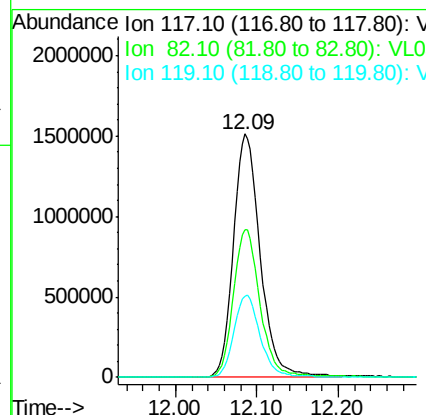
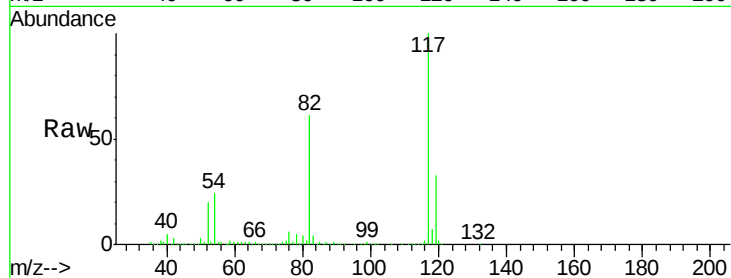
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL035935.D
Acq: 13 Nov 2020 5:11

Instrument :
MSVOA_L
ClientSampled :
LA-6DL

Tot Ion:117 Resp: 3501369
Ion Ratio Lower Upper
117 100
82 61.4 50.6 76.0
119 33.8 52.6 78.8#

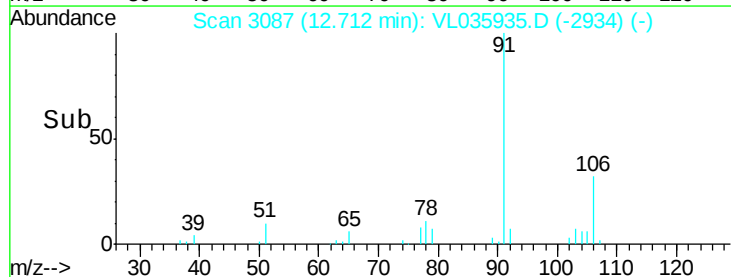
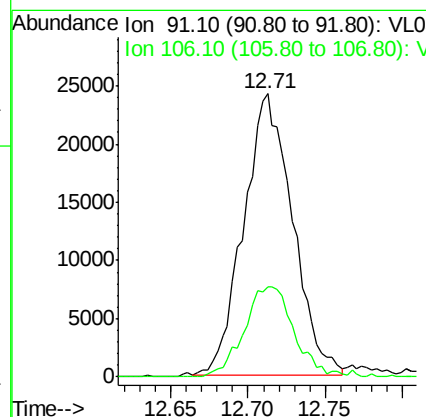
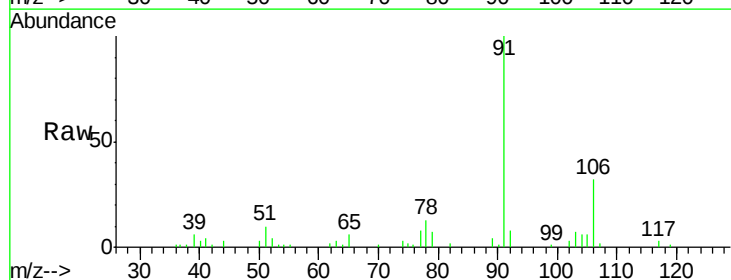
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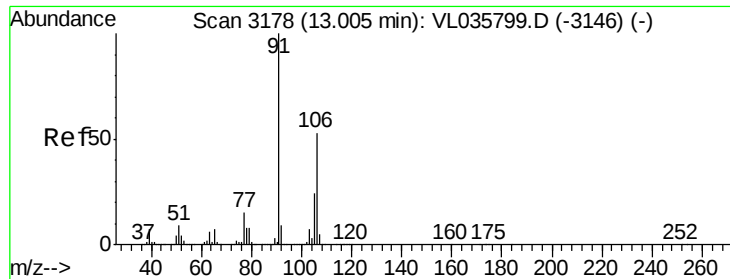
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#58
Ethyl Benzene
Concen: 0.124 ppbv
RT: 12.71 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL035935.D
Acq: 13 Nov 2020 5:11

Tgt Ion: 91 Resp: 52930
Ion Ratio Lower Upper
91 100
106 32.3 28.6 43.0





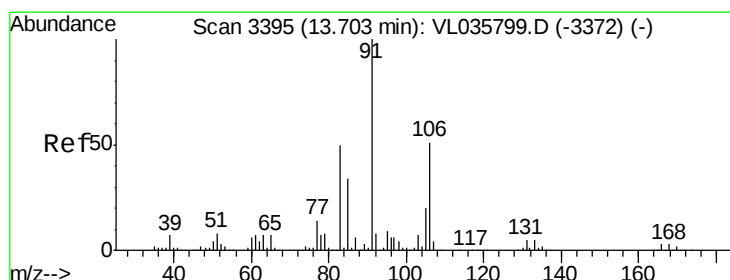
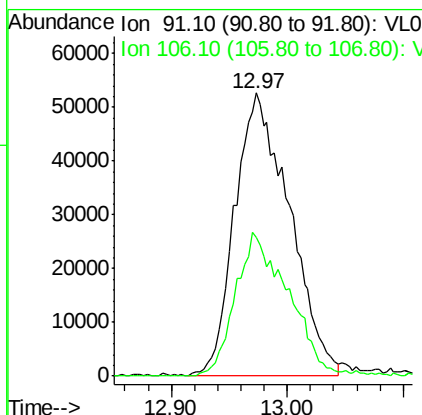
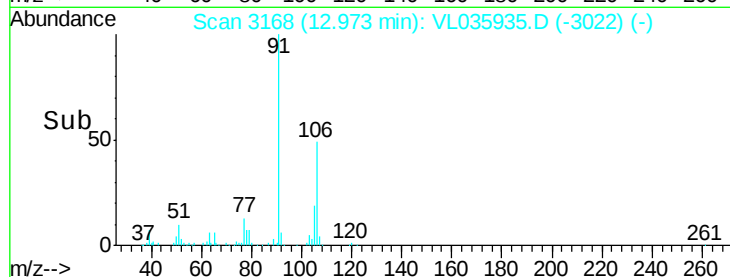
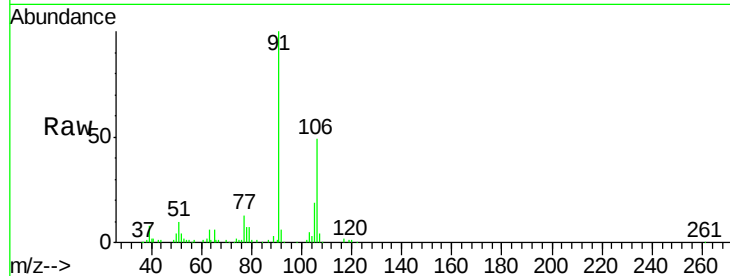
#59
m/p-Xylene
Concen: 0.477 ppbv
RT: 12.97 min Scan# 3168
Delta R.T. -0.03 min
Lab File: VL035935.D
Acq: 13 Nov 2020 5:11

Instrument :
MSVOA_L
ClientSampled :
LA-6DL

Tot Ion: 91 Resp: 172245
Ion Ratio Lower Upper
91 100
106 49.5 39.5 59.3

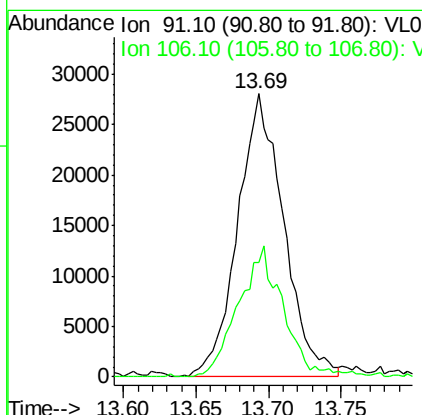
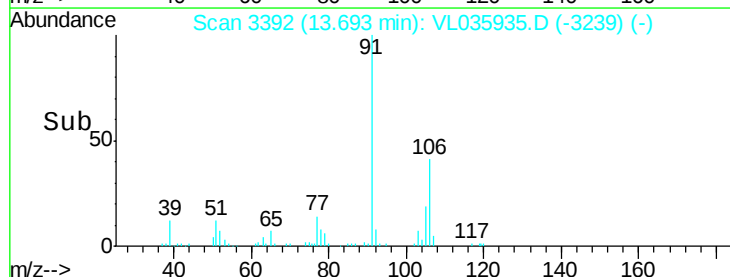
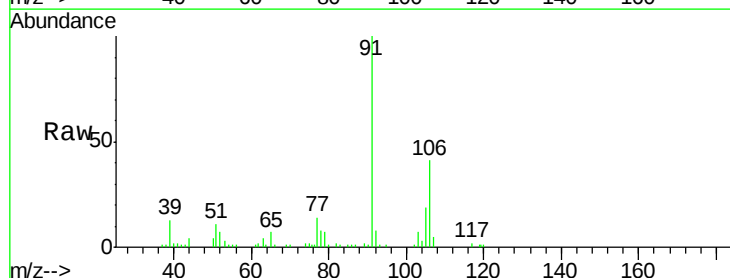
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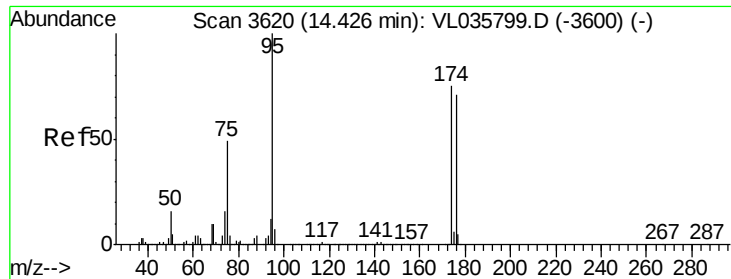
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#60
o-Xylene
Concen: 0.176 ppbv
RT: 13.69 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL035935.D
Acq: 13 Nov 2020 5:11

Tgt Ion: 91 Resp: 61881
Ion Ratio Lower Upper
91 100
106 45.5 24.8 74.4





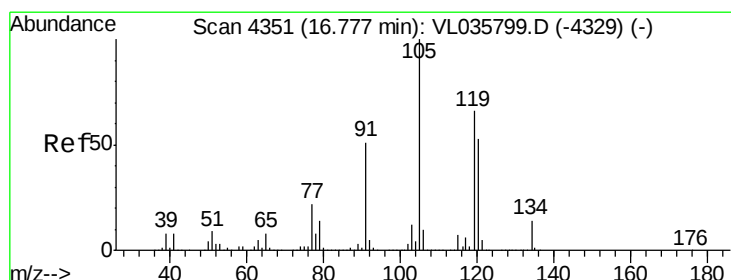
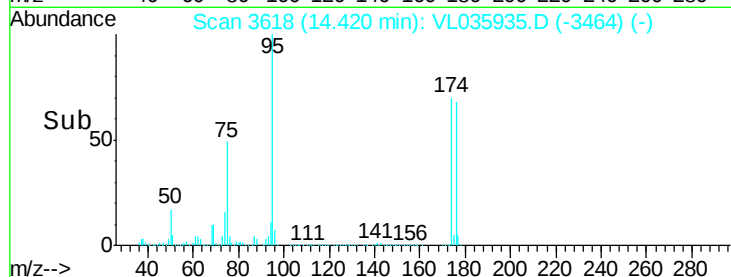
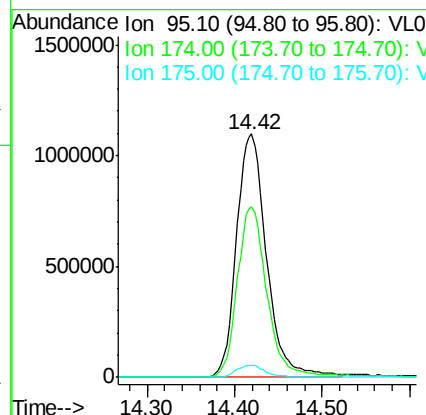
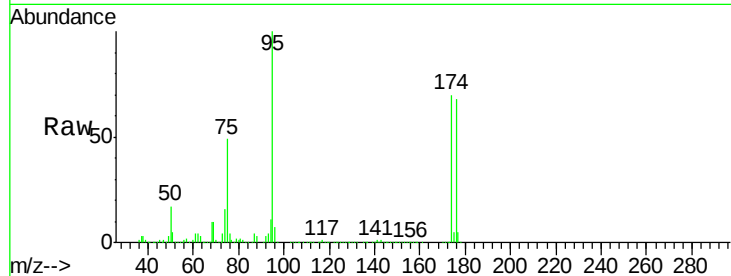
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.557 ppbv
 RT: 14.42 min Scan# 3618
 Delta R.T. -0.01 min
 Lab File: VL035935.D
 Acq: 13 Nov 2020 5:11

Instrument :
 MSVOA_L
 ClientSampled :
 LA-6DL

Tot Ion: 95 Resp: 2626086
 Ion Ratio Lower Upper
 95 100
 174 70.4 59.8 89.6
 175 4.9 4.3 6.5

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.175 ppbv
 RT: 16.77 min Scan# 4350
 Delta R.T. -0.00 min
 Lab File: VL035935.D
 Acq: 13 Nov 2020 5:11

Tgt Ion: 105 Resp: 73049
 Ion Ratio Lower Upper
 105 100
 120 41.9 42.0 63.0#
 91 10.7 41.0 61.6#
 77 15.3 17.3 25.9#

