

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111620\
 Data File : VL035947.D
 Acq On : 16 Nov 2020 17:18
 Operator : SY/AP
 Sample : L4722-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-1

Manual Integrations
 APPROVED

MMDadoda
 11/18/2020 2:11:21 PM

Quant Time: Nov 17 21:50:58 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	5.67	49	1219224	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4171347	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3892750	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2990159	10.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	58462	0.255	ppbv	90
3) Chlorodifluoromethane	2.98	51	337229m	2.310	ppbv	
4) Chloromethane	3.13	50	42423	0.598	ppbv	94
9) Propene	3.02	41	103684m	1.940	ppbv	
10) Heptane	8.13	43	60908	0.413	ppbv	99
11) Trichlorofluoromethane	3.95	101	67454	0.234	ppbv	93
13) Ethanol	3.63	45	14073654	1213.927	ppbv	99
15) Acetone	3.84	43	3356695	25.752	ppbv	96
19) Isopropyl Alcohol	4.00	45	3247155	40.538	ppbv #	97
20) Methylene Chloride	4.34	84	132025m	1.439	ppbv	
26) Hexane	5.69	57	313764	2.216	ppbv #	60
29) Chloroform	5.75	83	63369	0.228	ppbv	95
30) Cyclohexane	7.16	84	21907m	0.142	ppbv	
34) 2-Butanone	5.25	43	70981	0.524	ppbv	98
35) Carbon Tetrachloride	7.02	117	16081m	0.072	ppbv	
36) Benzene	6.89	78	202659	0.653	ppbv	98
44) 2,2,4-Trimethylpentane	7.87	57	69809	0.170	ppbv #	59
53) Toluene	9.81	91	952098	2.544	ppbv	97
58) Ethyl Benzene	12.72	91	69252m	0.146	ppbv	
59) m/p-Xylene	12.98	91	238920m	0.596	ppbv	
60) o-Xylene	13.70	91	70865	0.182	ppbv	94
74) 1,2,4-Trimethylbenzene	16.77	105	58340	0.126	ppbv #	69

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

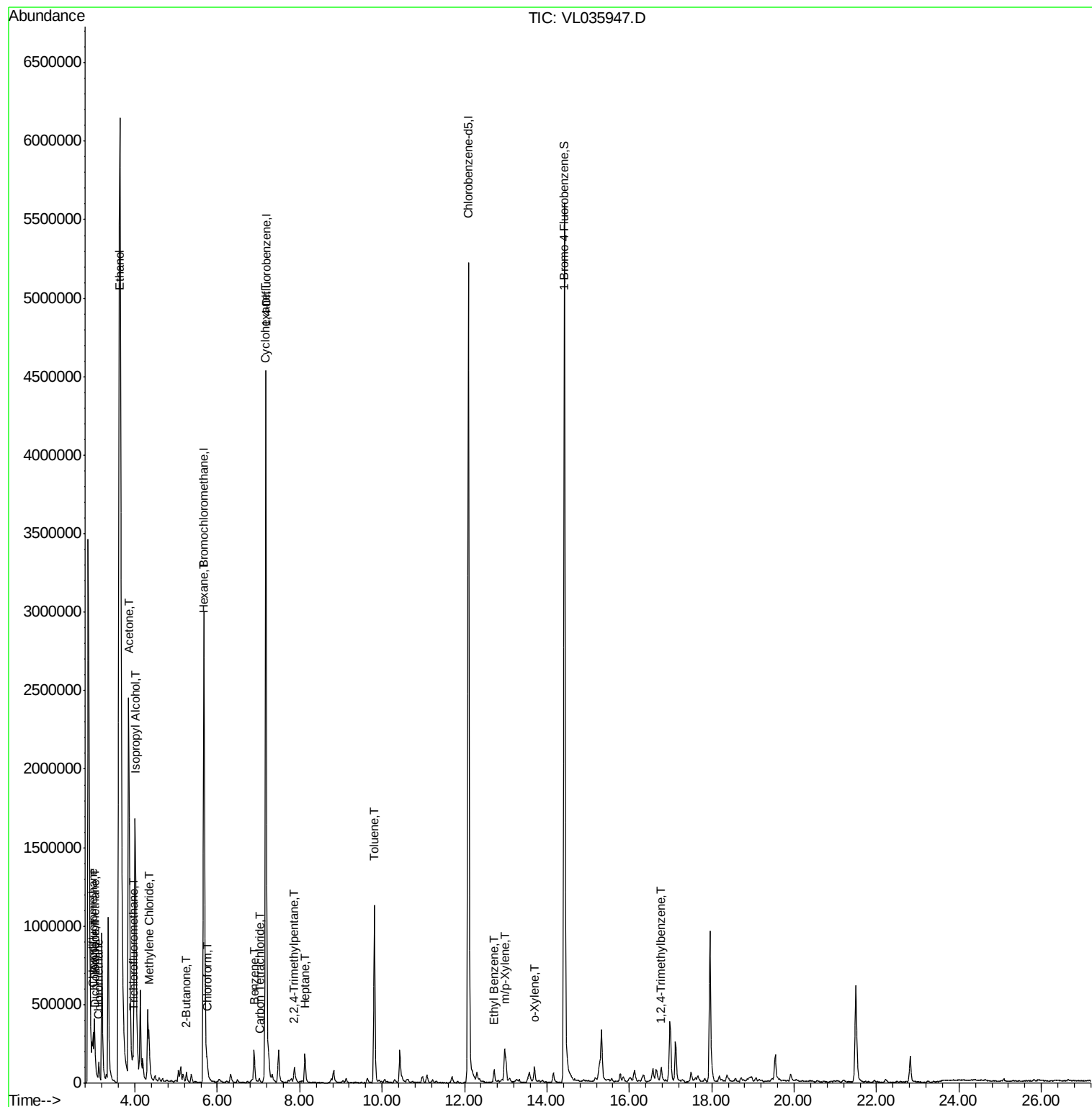
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111620\
Data File : VL035947.D
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Quant Time: Nov 17 21:50:58 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.00 min

Lab File: VL035947.D

Acq: 16 Nov 2020 17:18

Instrument :

MSVOA_L

ClientSampled :

SR-1

Tot Ion: 49 Resp: 1219224

Ion Ratio Lower Upper

49 100

128 74.3 41.5 124.6

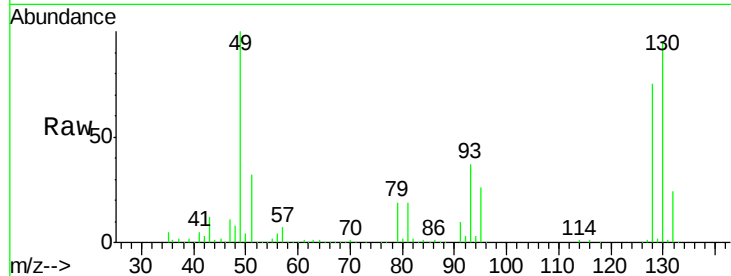
130 95.9 53.7 161.1

Manual Integrations

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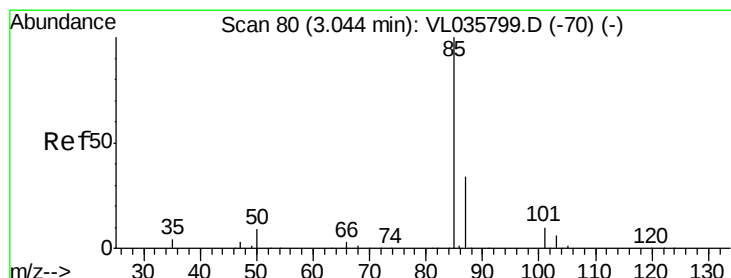
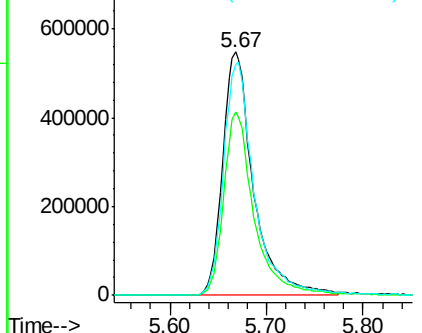
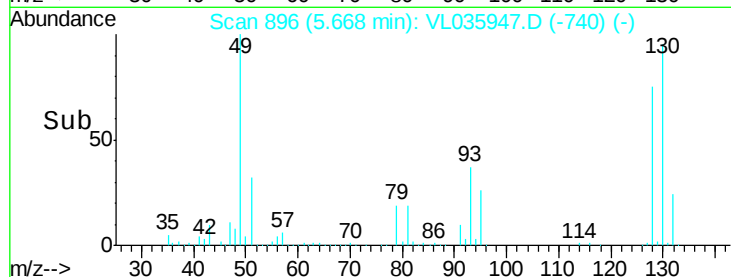
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.255 ppbv

RT: 3.04 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL035947.D

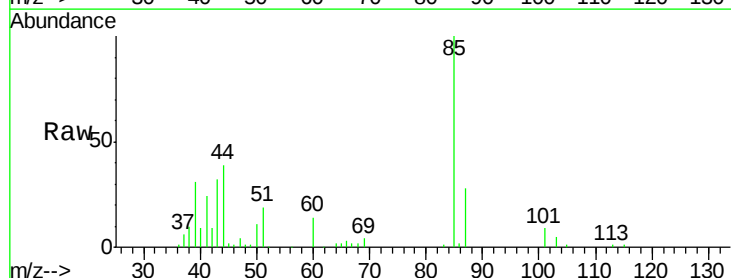
Acq: 16 Nov 2020 17:18

Tgt Ion: 85 Resp: 58462

Ion Ratio Lower Upper

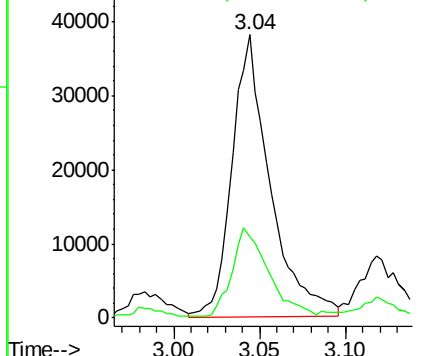
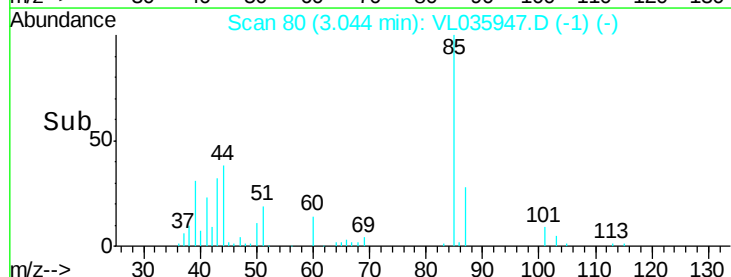
85 100

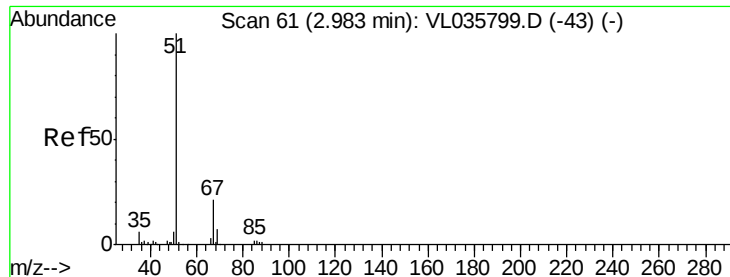
87 28.3 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





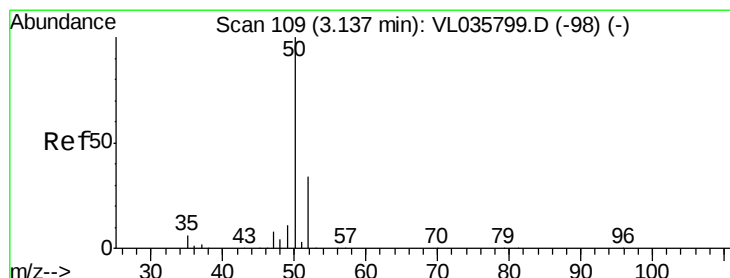
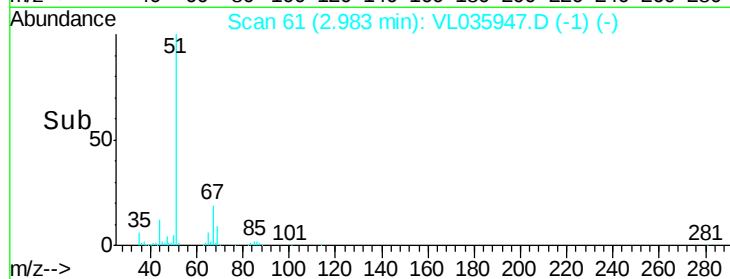
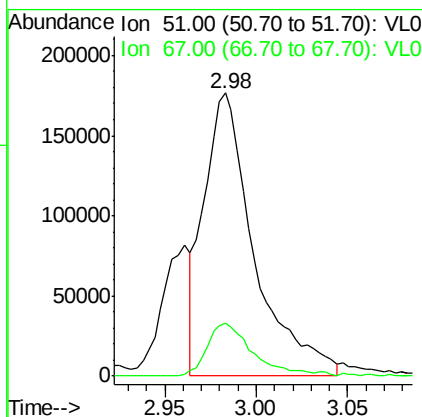
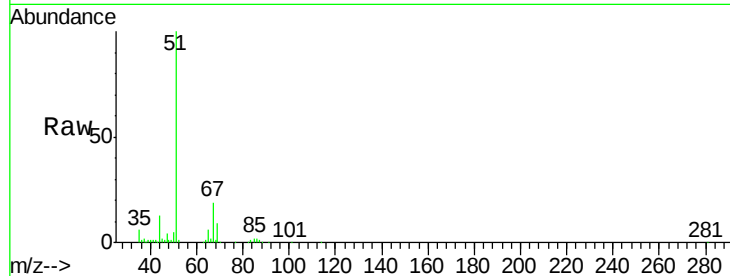
#3
Chlorodifluoromethane
Concen: 2.310 ppbv
RT: 2.98 min Scan# 61
Delta R.T. 0.00 min
Lab File: VL035947.D
Acq: 16 Nov 2020 17:18

Instrument :
MSVOA_L
ClientSampleId :
SR-1

Tot Ion: 51 Resp: 337229
Ion Ratio Lower Upper
51 100
67 17.9 17.0 25.4

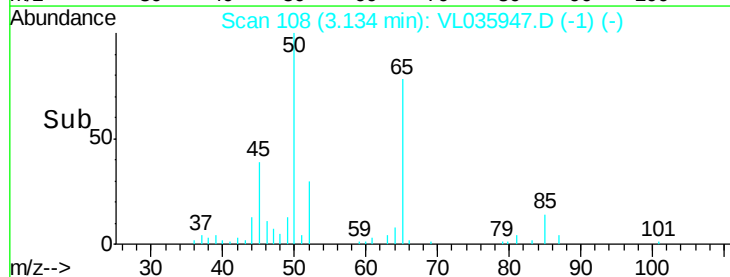
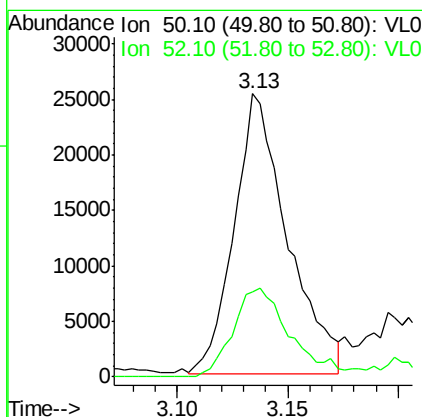
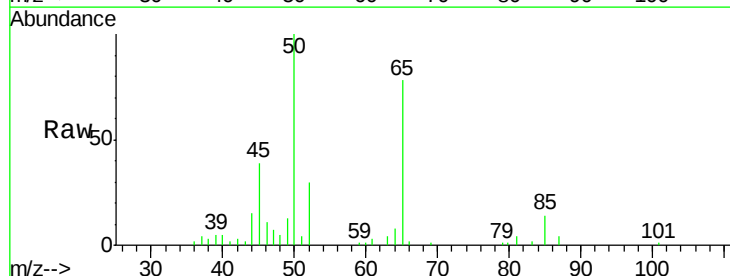
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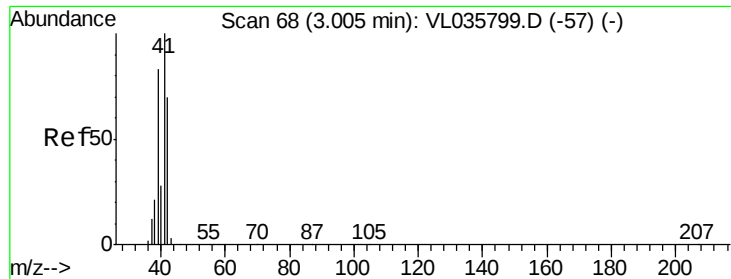
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#4
Chloromethane
Concen: 0.598 ppbv
RT: 3.13 min Scan# 108
Delta R.T. -0.00 min
Lab File: VL035947.D
Acq: 16 Nov 2020 17:18

Tgt Ion: 50 Resp: 42423
Ion Ratio Lower Upper
50 100
52 30.6 27.1 40.7





#9

Propene

Concen: 1.940 ppbv m

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL035947.D

Acq: 16 Nov 2020 17:18

Instrument :

MSVOA_L

ClientSampled :

SR-1

Tot Ion: 41 Resp: 103684

Ion Ratio Lower Upper

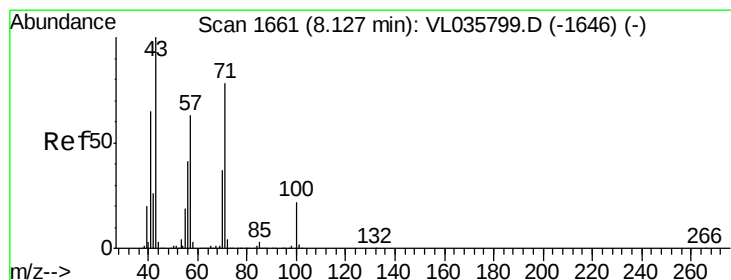
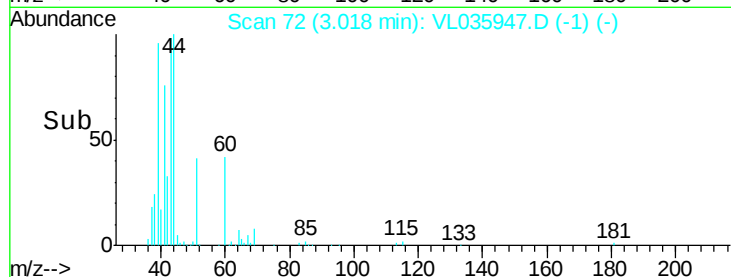
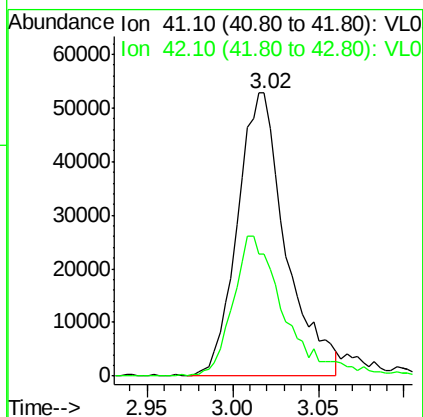
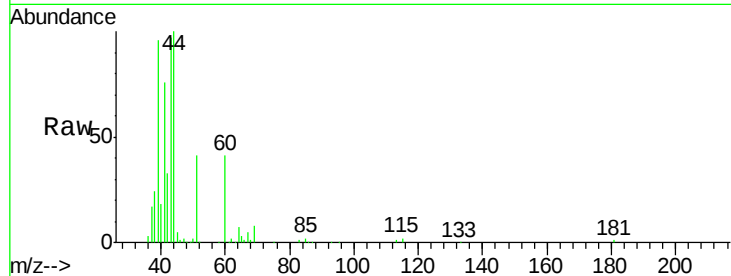
41 100

42 208.8 56.2 84.4#

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#10

Heptane

Concen: 0.413 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VL035947.D

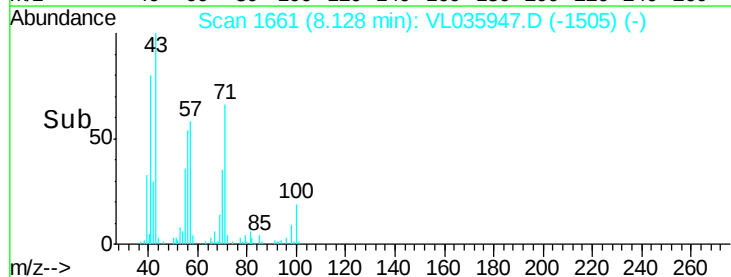
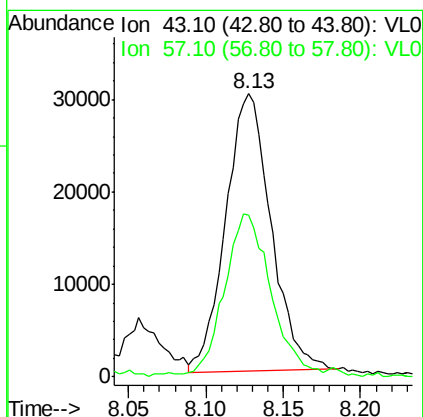
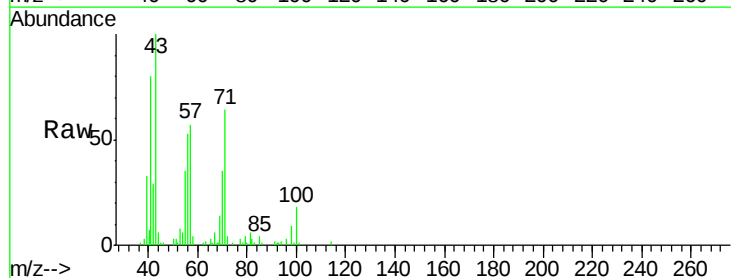
Acq: 16 Nov 2020 17:18

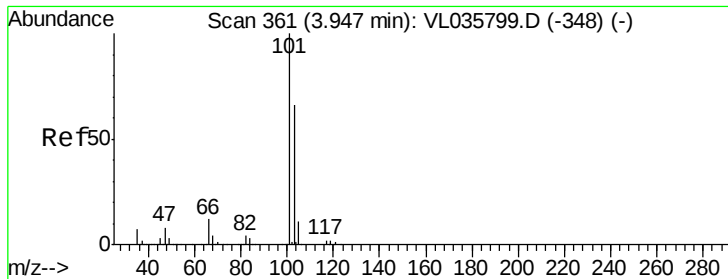
Tgt Ion: 43 Resp: 60908

Ion Ratio Lower Upper

43 100

57 63.2 50.0 75.0





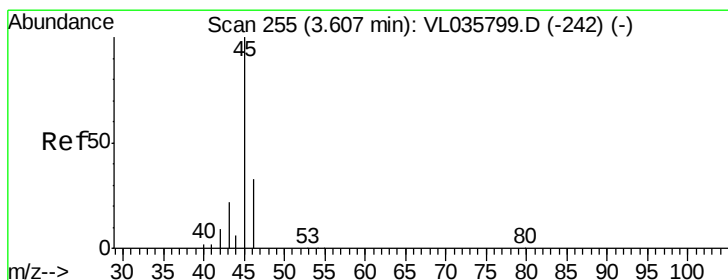
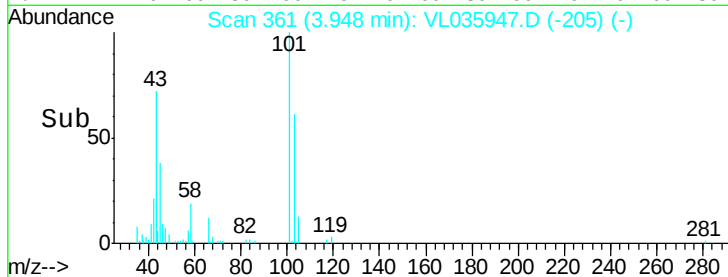
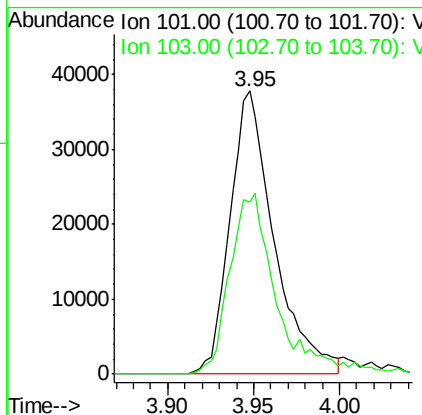
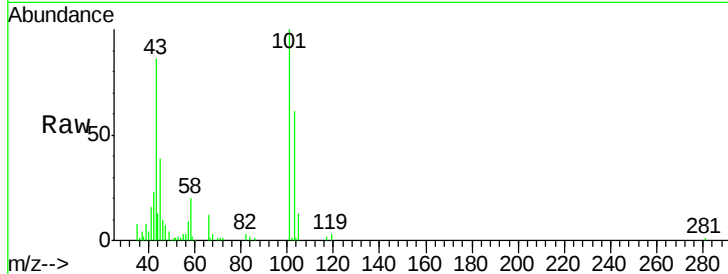
#11
 Trichlorofluoromethane
 Concen: 0.234 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. 0.00 min
 Lab File: VL035947.D
 Acq: 16 Nov 2020 17:18

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-1

Tot Ion	Ion	Ratio	Lower	Upper
101	100			
103	60.8	53.0	79.4	

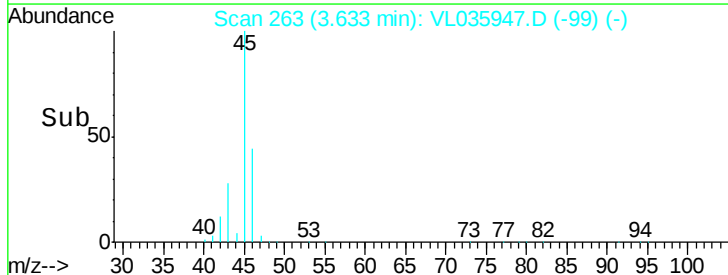
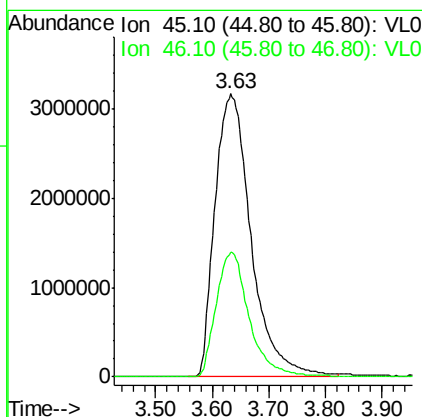
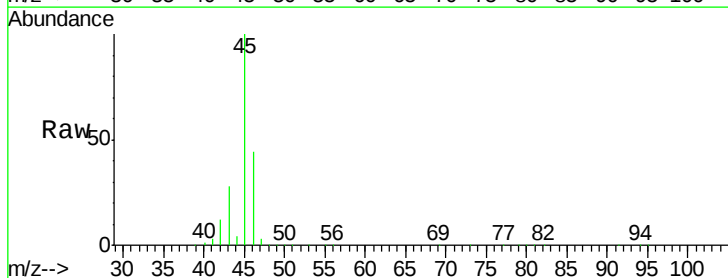
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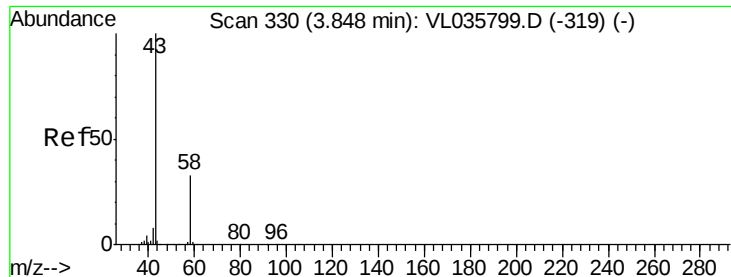
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#13
 Ethanol
 Concen: 1213.927 ppbv
 RT: 3.63 min Scan# 263
 Delta R.T. 0.03 min
 Lab File: VL035947.D
 Acq: 16 Nov 2020 17:18

Tgt Ion	Ion	Ratio	Lower	Upper
45	100			
46	40.7	16.1	64.5	





#15

Acetone

Concen: 25.752 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.00 min

Lab File: VL035947.D

Acq: 16 Nov 2020 17:18

Instrument :

MSVOA_L

ClientSampled :

SR-1

Tot Ion: 43 Resp: 335695

Ion Ratio Lower Upper

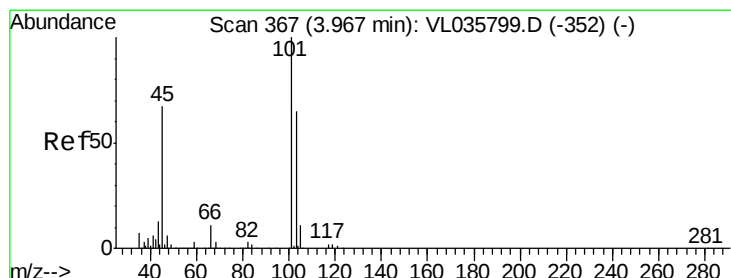
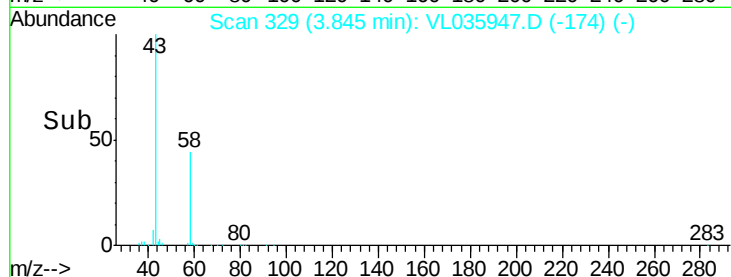
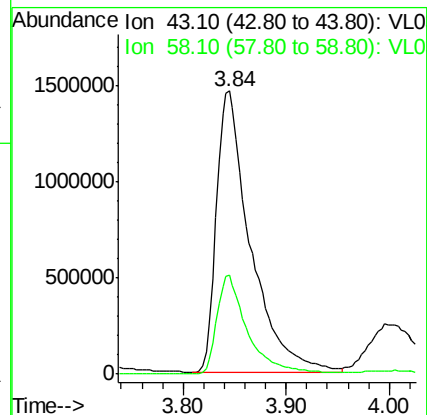
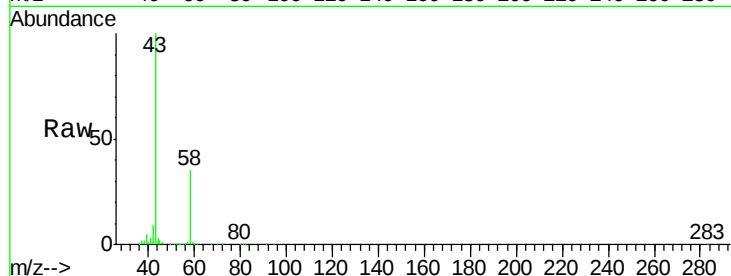
43 100

58 32.0 27.5 41.3

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#19

Isopropyl Alcohol

Concen: 40.538 ppbv

RT: 4.00 min Scan# 378

Delta R.T. 0.04 min

Lab File: VL035947.D

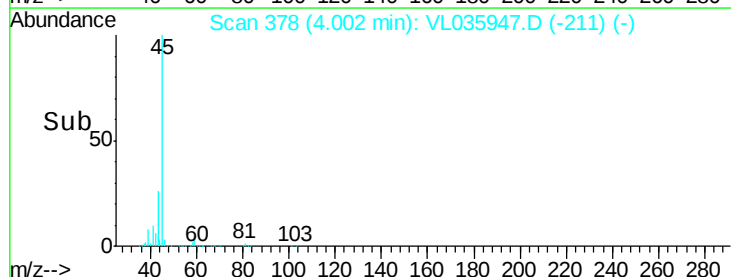
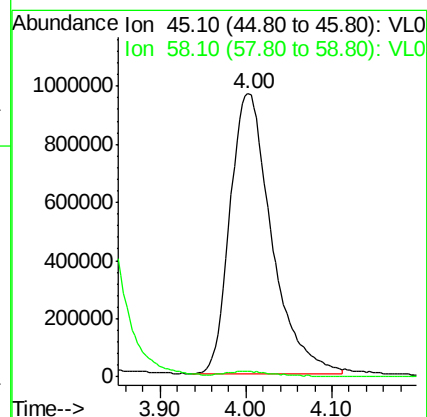
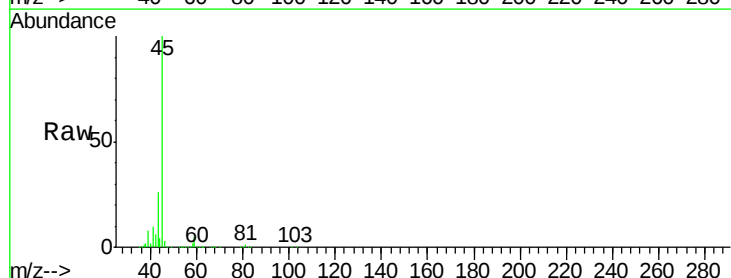
Acq: 16 Nov 2020 17:18

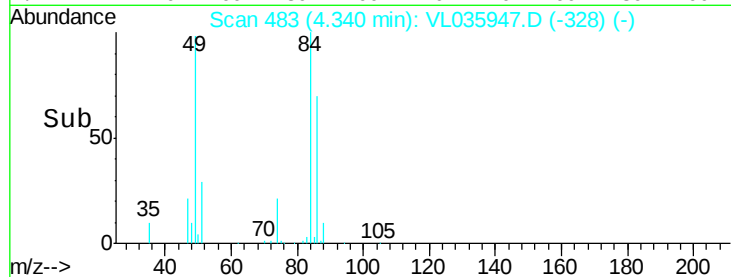
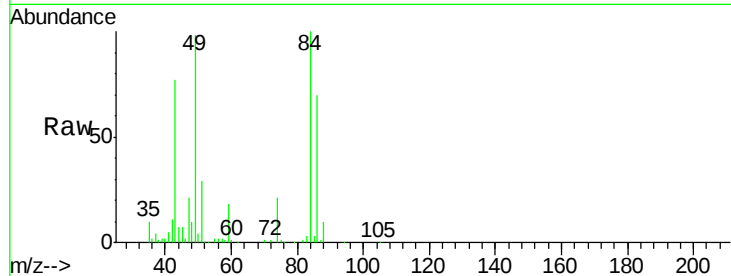
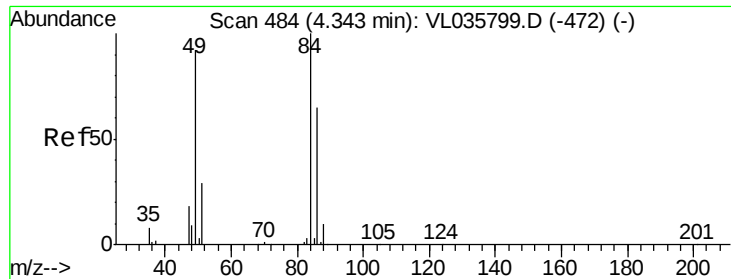
Tgt Ion: 45 Resp: 3247155

Ion Ratio Lower Upper

45 100

58 2.2 2.6 3.8#





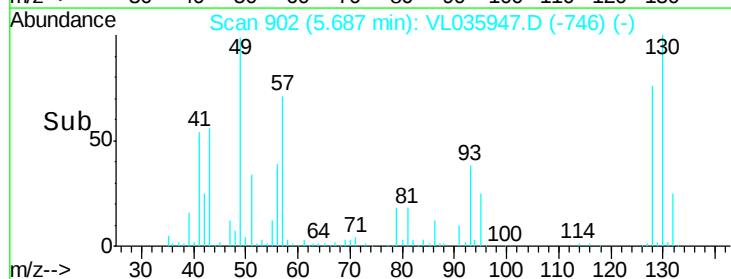
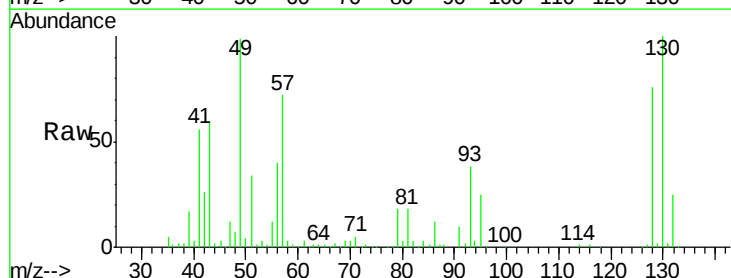
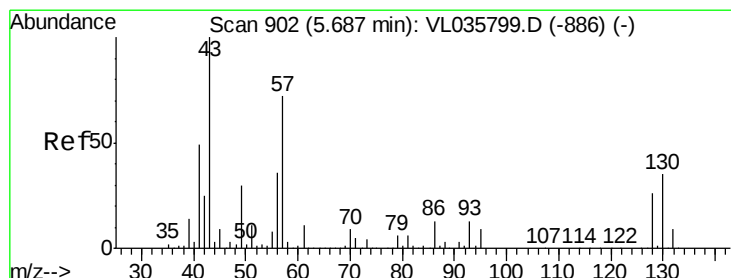
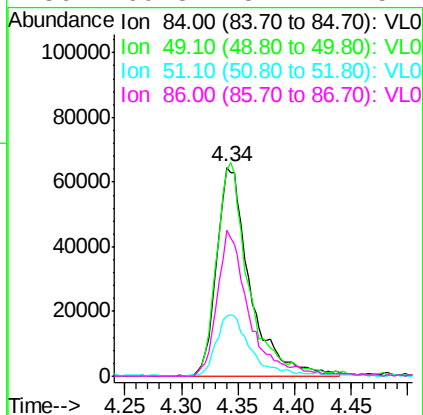
#20
Methvlene Chloride
Concen: 1.439 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.00 min
Lab File: VL035947.D
Acq: 16 Nov 2020 17:18

Tot Ion	84	Resp	132025
Ion Ratio	Lower	Upper	
84	100		
49	98.2	73.8	110.8
51	28.8	23.0	34.4
86	69.8	52.1	78.1

Instrument :
MSVOA_L
ClientSampled :
SR-1

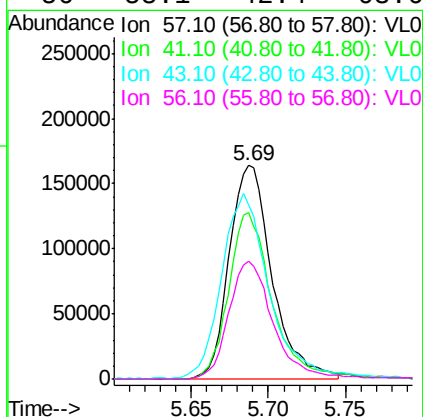
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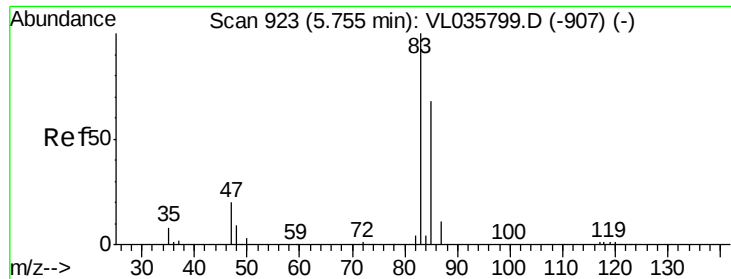
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#26
Hexane
Concen: 2.216 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL035947.D
Acq: 16 Nov 2020 17:18

Tgt Ion	57	Resp	313764
Ion Ratio	Lower	Upper	
57	100		
41	80.3	58.9	88.3
43	98.5	150.2	225.2
56	58.1	42.4	63.6





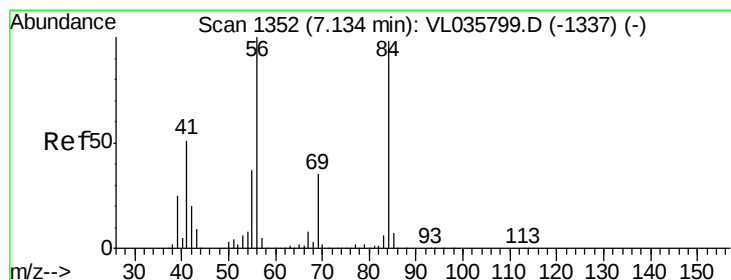
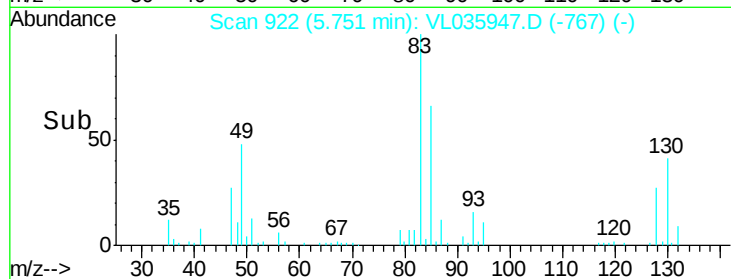
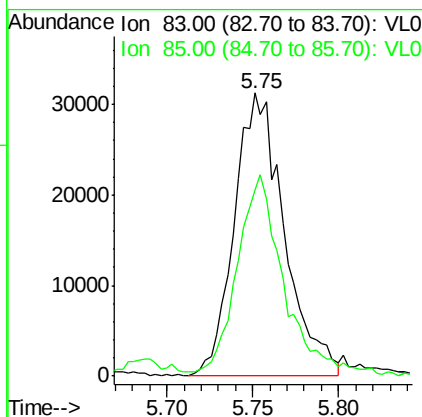
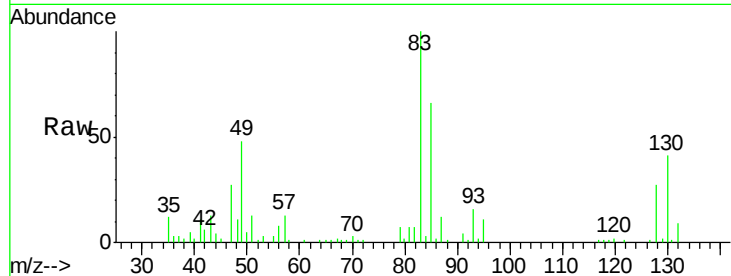
#29
Chloroform
Concen: 0.228 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.00 min
Lab File: VL035947.D
Acq: 16 Nov 2020 17:18

Instrument :
MSVOA_L
ClientSampleId :
SR-1

Tot Ion: 83 Resp: 63369
Ion Ratio Lower Upper
83 100
85 64.3 54.6 81.8

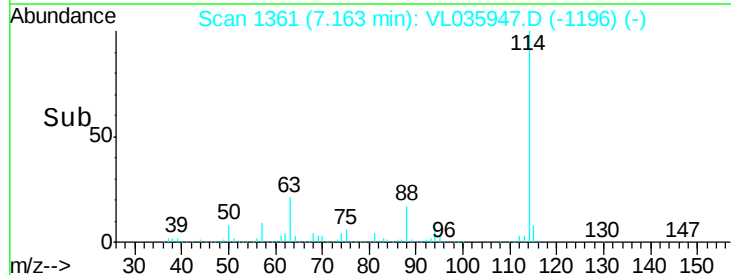
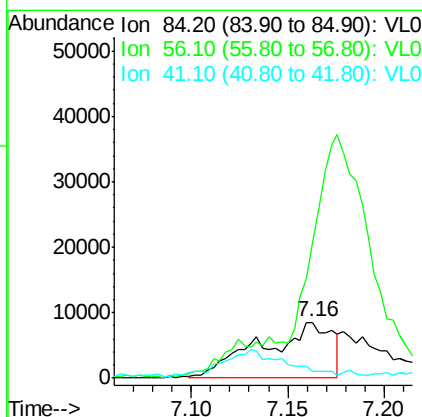
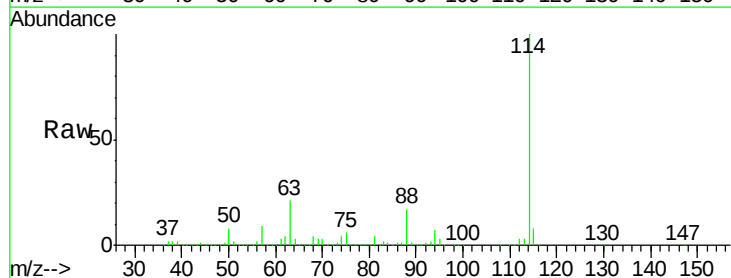
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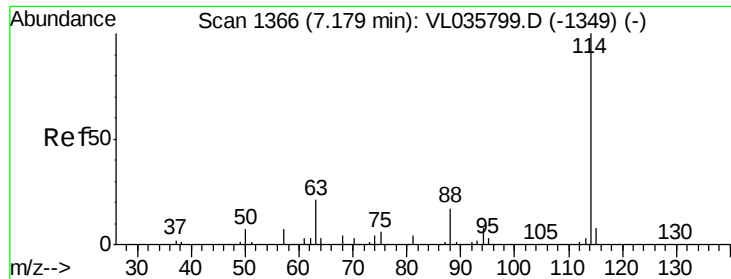
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#30
Cyclohexane
Concen: 0.142 ppbv m
RT: 7.16 min Scan# 1361
Delta R.T. 0.03 min
Lab File: VL035947.D
Acq: 16 Nov 2020 17:18

Tgt Ion: 84 Resp: 21907
Ion Ratio Lower Upper
84 100
56 0.0 86.4 129.6#
41 41.5 42.1 63.1#





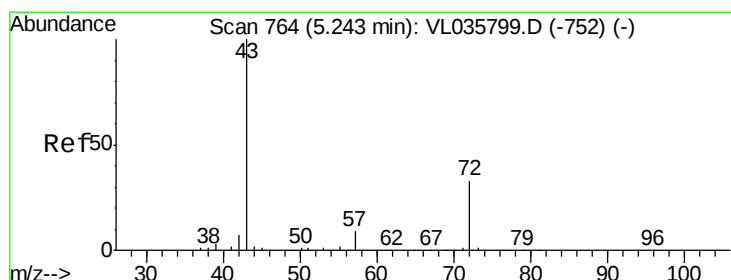
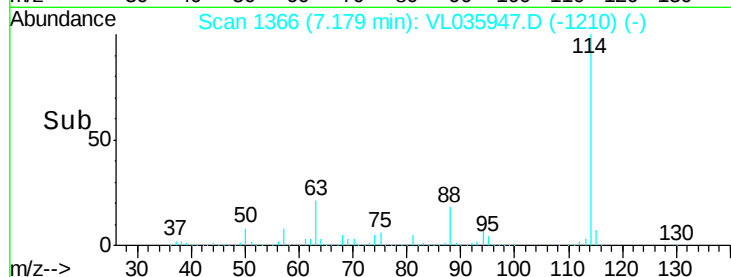
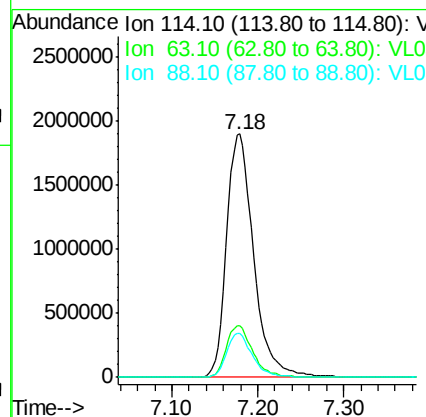
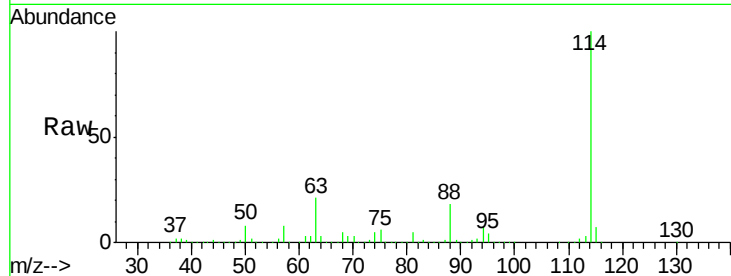
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. 0.00 min
 Lab File: VL035947.D
 Acq: 16 Nov 2020 17:18

Instrument :
 MSVOA_L
 ClientSampled :
 SR-1

Tot Ion:114 Resp: 4171347
 Ion Ratio Lower Upper
 114 100
 63 21.0 16.1 24.1
 88 17.5 13.7 20.5

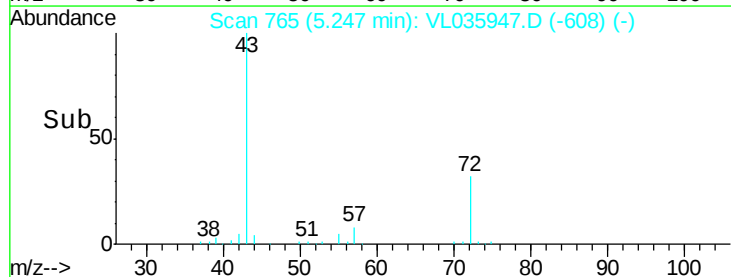
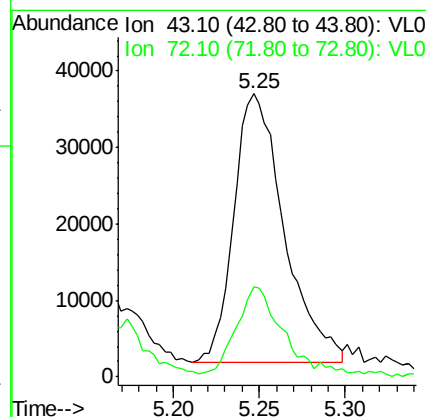
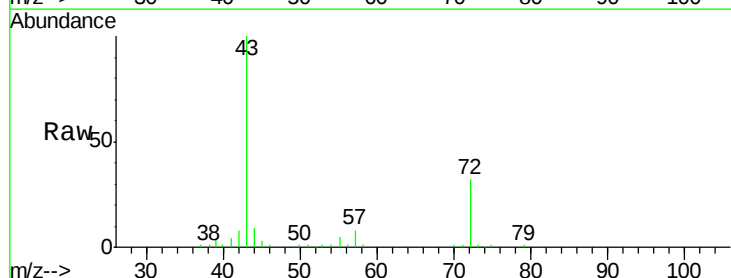
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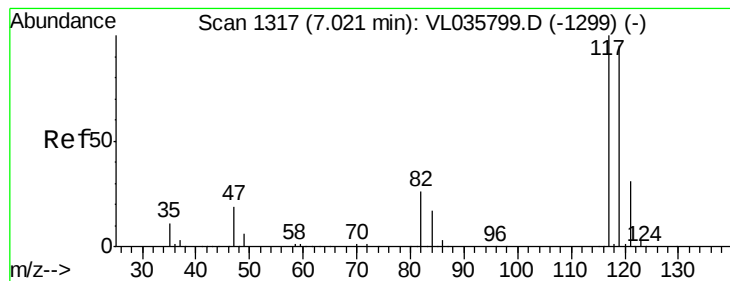
MMDadoda
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#34
 2-Butanone
 Concen: 0.524 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.00 min
 Lab File: VL035947.D
 Acq: 16 Nov 2020 17:18

Tgt Ion: 43 Resp: 70981
 Ion Ratio Lower Upper
 43 100
 72 31.8 26.5 39.7





#35

Carbon Tetrachloride

Concen: 0.072 ppbv m

RT: 7.02 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VL035947.D

Acq: 16 Nov 2020 17:18

Instrument :

MSVOA_L

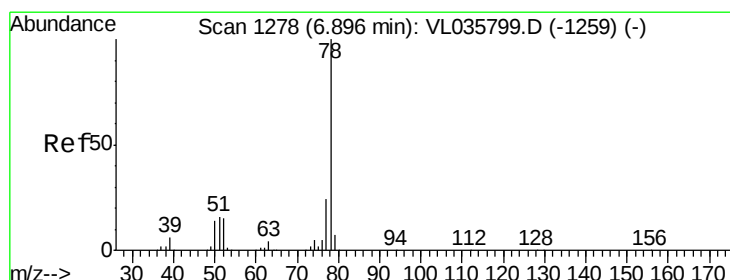
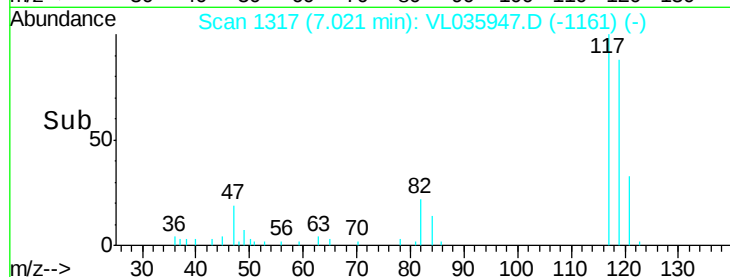
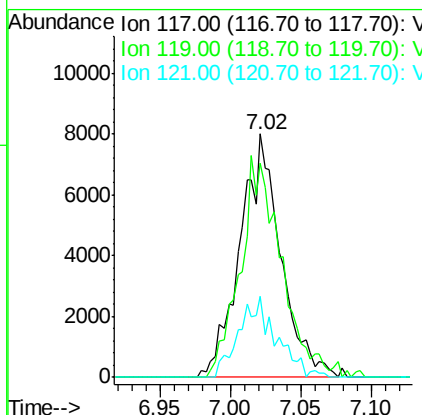
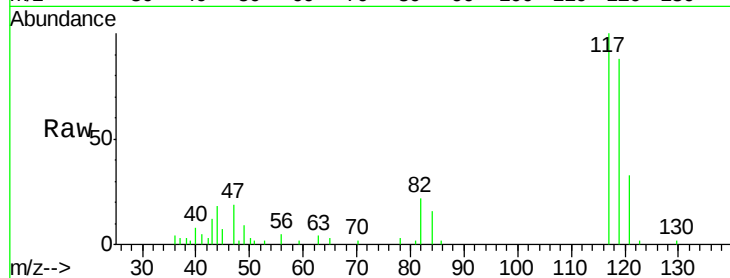
ClientSampled :

SR-1

Tot Ion:117 Resp: 16081
 Ion Ratio Lower Upper
 117 100
 119 88.0 75.6 113.4
 121 33.4 25.1 37.7

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#36

Benzene

Concen: 0.653 ppbv

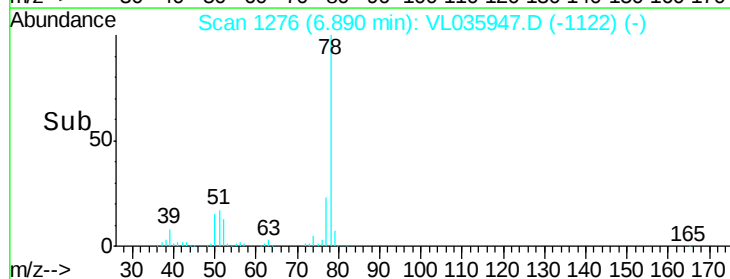
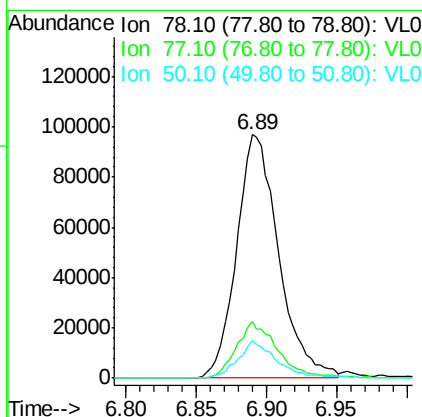
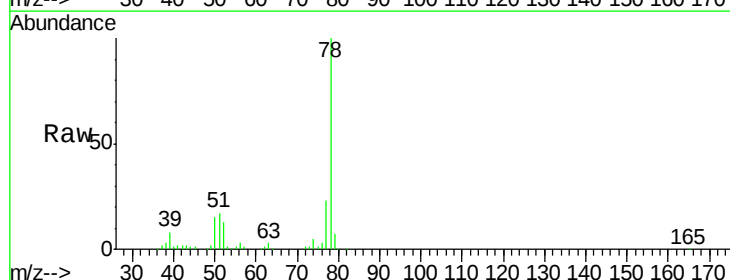
RT: 6.89 min Scan# 1276

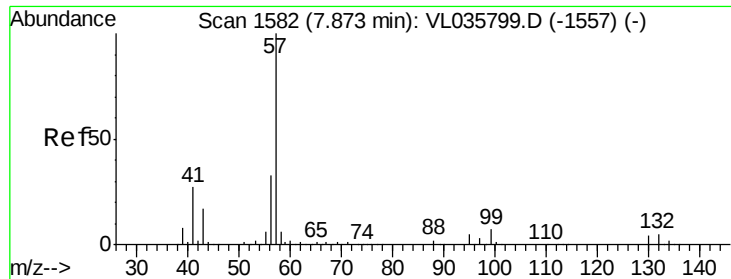
Delta R.T. -0.01 min

Lab File: VL035947.D

Acq: 16 Nov 2020 17:18

Tgt Ion: 78 Resp: 202659
 Ion Ratio Lower Upper
 78 100
 77 23.2 19.3 28.9
 50 14.9 11.4 17.2





#44

2,2,4-Trimethylpentane

Concen: 0.170 ppbv

RT: 7.87 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VL035947.D

Acq: 16 Nov 2020 17:18

Instrument :

MSVOA_L

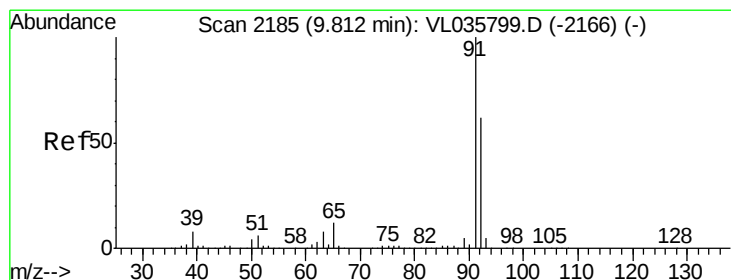
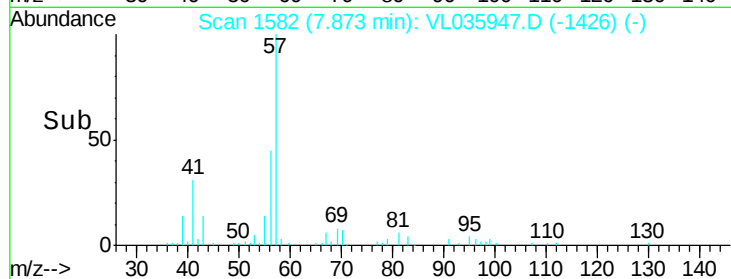
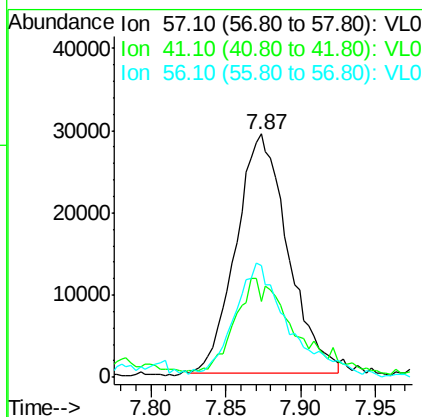
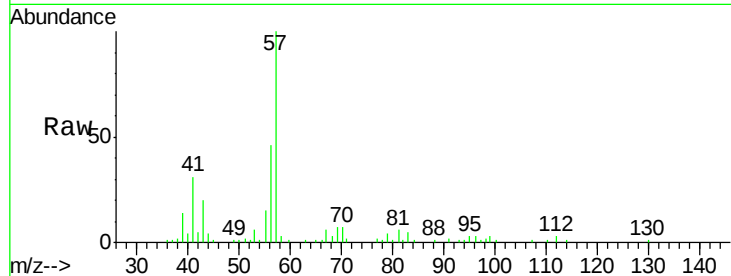
ClientSampleId :

SR-1

Tot Ion:	57	Resp:	69809
Ion Ratio	Lower	Upper	
57	100		
41	50.1	21.0	31.4#
56	51.7	25.4	38.0#

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#53

Toluene

Concen: 2.544 ppbv

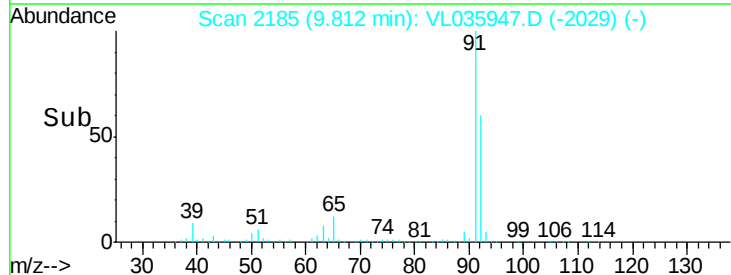
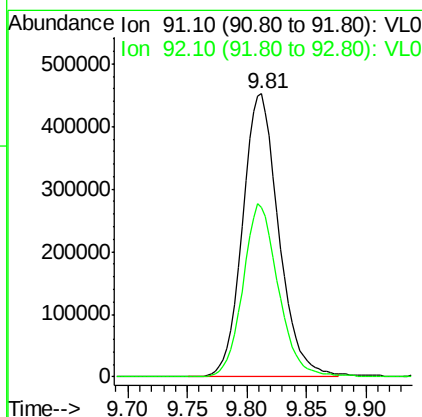
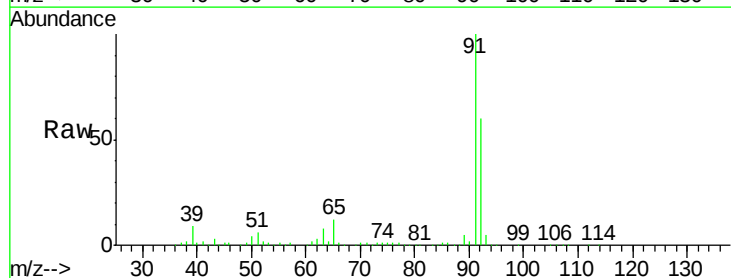
RT: 9.81 min Scan# 2185

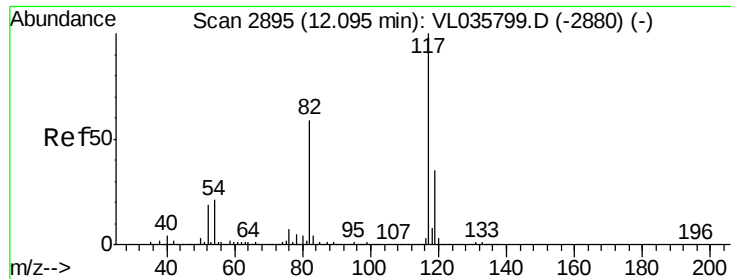
Delta R.T. 0.00 min

Lab File: VL035947.D

Acq: 16 Nov 2020 17:18

Tgt Ion:	91	Resp:	952098
Ion Ratio	Lower	Upper	
91	100		
92	60.1	49.8	74.6





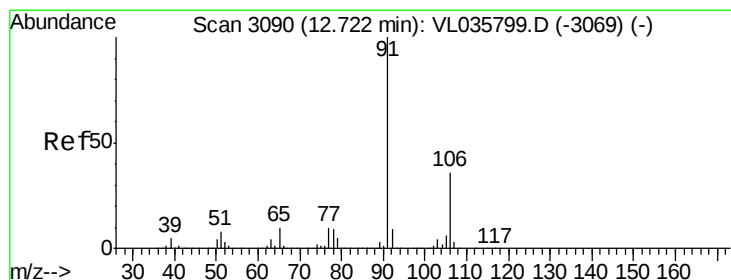
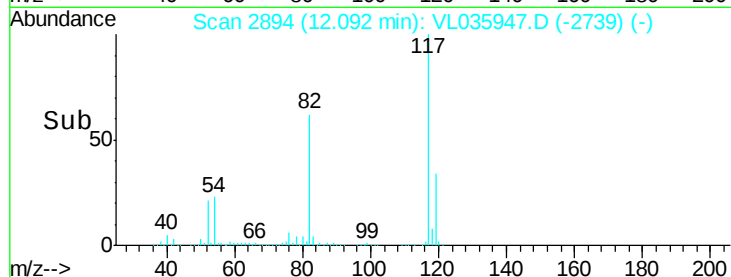
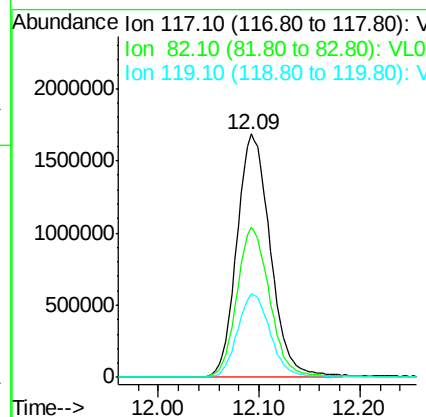
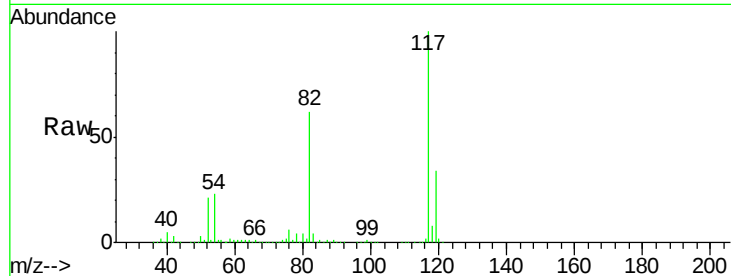
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL035947.D
Acq: 16 Nov 2020 17:18

Instrument :
MSVOA_L
ClientSampled :
SR-1

Tot Ion:117 Resp: 3892750
Ion Ratio Lower Upper
117 100
82 61.8 50.6 76.0
119 34.1 52.6 78.8#

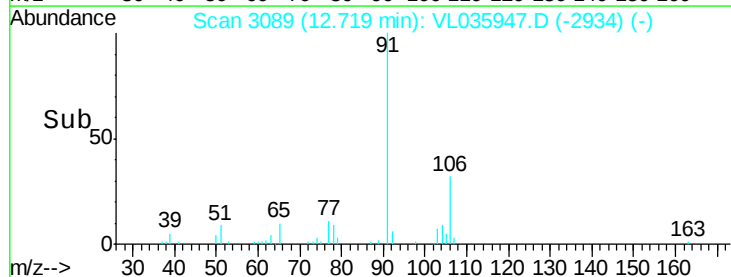
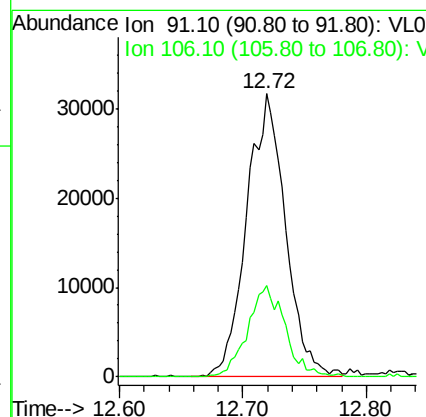
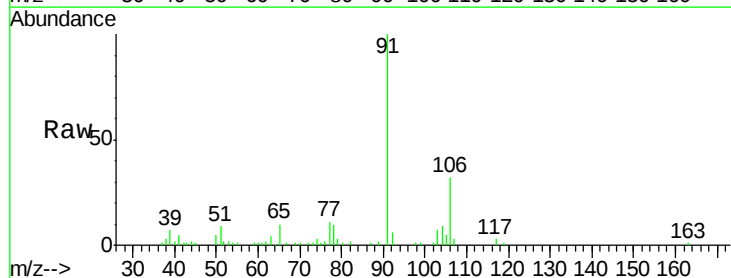
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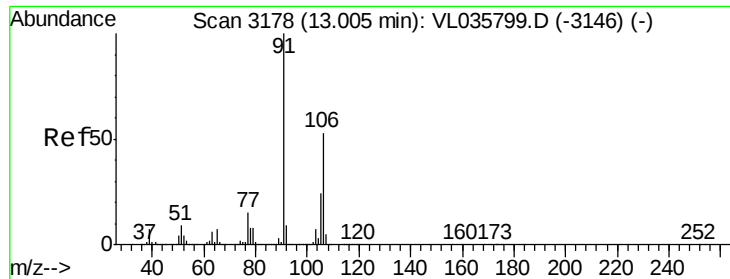
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#58
Ethyl Benzene
Concen: 0.146 ppbv m
RT: 12.72 min Scan# 3089
Delta R.T. -0.00 min
Lab File: VL035947.D
Acq: 16 Nov 2020 17:18

Tgt Ion: 91 Resp: 69252
Ion Ratio Lower Upper
91 100
106 32.4 28.6 43.0





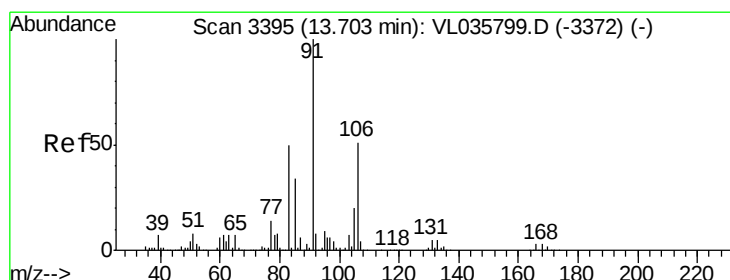
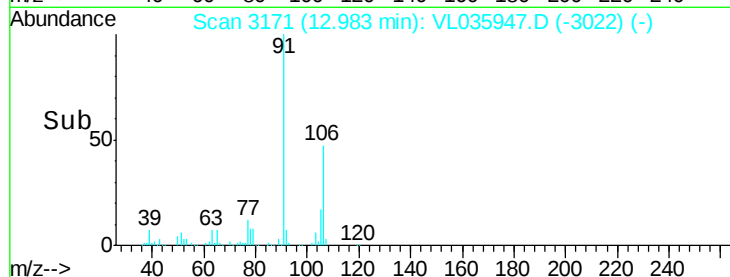
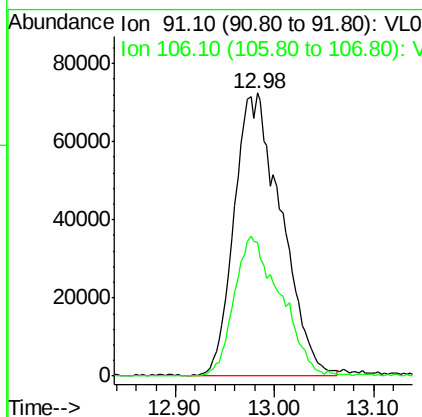
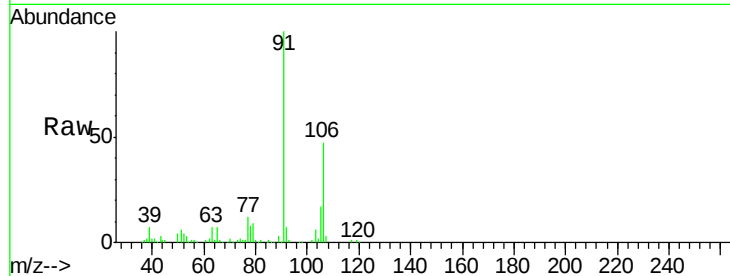
#59
m/p-Xylene
Concen: 0.596 ppbv m
RT: 12.98 min Scan# 3171
Delta R.T. -0.02 min
Lab File: VL035947.D
Acq: 16 Nov 2020 17:18

Instrument :
MSVOA_L
ClientSampled :
SR-1

Tot Ion: 91 Resp: 238920
Ion Ratio Lower Upper
91 100
106 0.0 39.5 59.3#

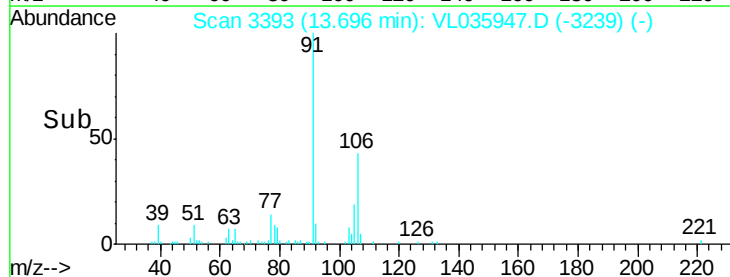
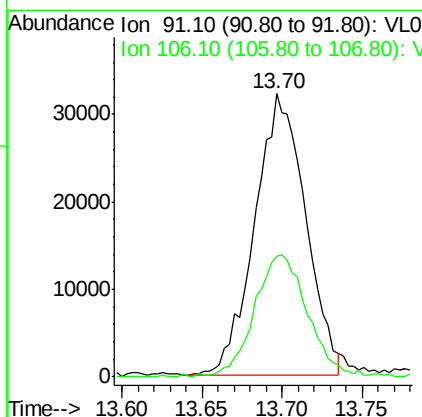
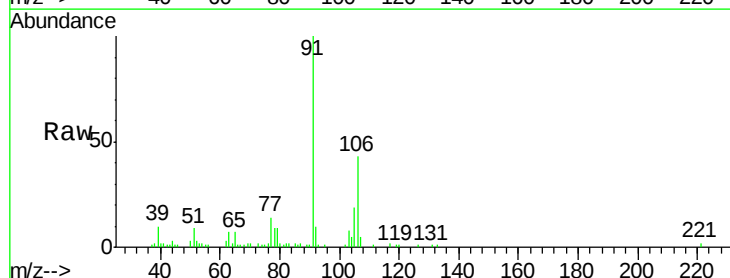
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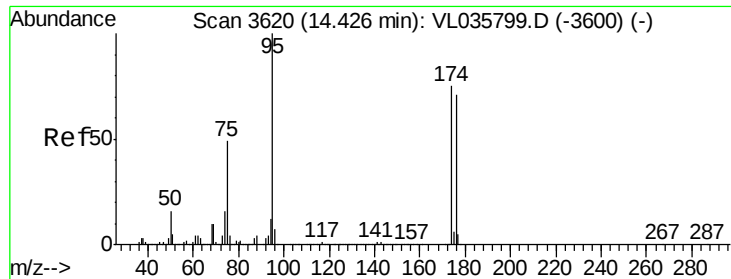
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#60
o-Xylene
Concen: 0.182 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL035947.D
Acq: 16 Nov 2020 17:18

Tgt Ion: 91 Resp: 70865
Ion Ratio Lower Upper
91 100
106 45.5 24.8 74.4





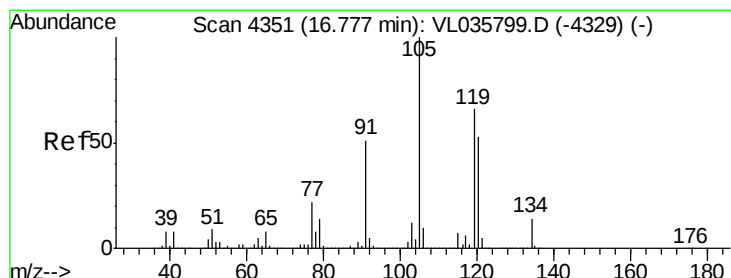
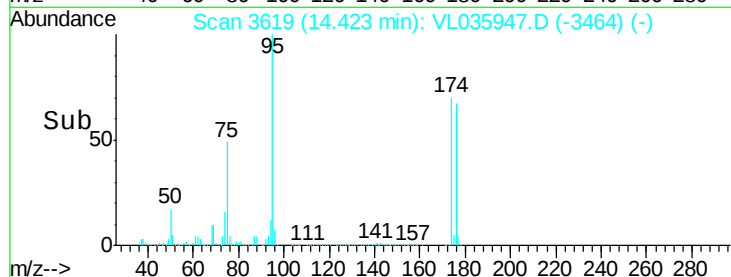
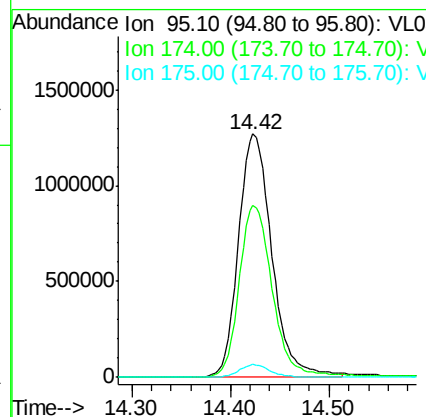
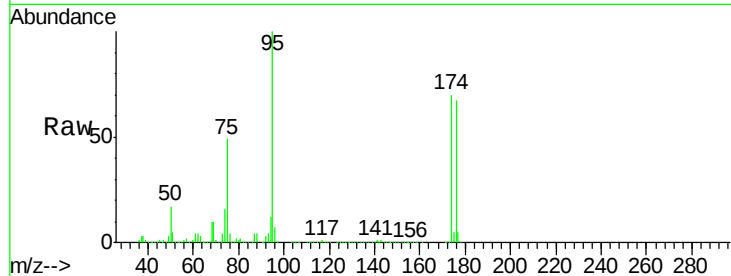
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.812 ppbv
 RT: 14.42 min Scan# 3619
 Delta R.T. -0.00 min
 Lab File: VL035947.D
 Acq: 16 Nov 2020 17:18

Instrument :
 MSVOA_L
 ClientSampled :
 SR-1

Tot Ion: 95 Resp: 2990159
 Ion Ratio Lower Upper
 95 100
 174 71.5 59.8 89.6
 175 5.0 4.3 6.5

Manual Integrations
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.126 ppbv
 RT: 16.77 min Scan# 4349
 Delta R.T. -0.01 min
 Lab File: VL035947.D
 Acq: 16 Nov 2020 17:18

Tgt Ion: 105 Resp: 58340
 Ion Ratio Lower Upper
 105 100
 120 43.5 42.0 63.0
 91 13.5 41.0 61.6#
 77 12.0 17.3 25.9#

