

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082020\
 Data File : VL035477.D
 Acq On : 20 Aug 2020 16:28
 Operator : SY/AP
 Sample : L3743-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-2DL

Manual Integrations
 APPROVED

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 8/21/2020 11:24:23 AM

Quant Time: Aug 21 09:55:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 1
 QLast Update : Mon Aug 17 19:28:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1068807	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4869926	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4768044	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3399554	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	27104m	0.202	ppbv	
9) Propene	3.02	41	273132	5.071	ppbv #	73
13) Ethanol	3.61	45	134649	6.823	ppbv	97
15) Acetone	3.85	43	426295	3.465	ppbv #	76
26) Hexane	5.69	57	83806	0.620	ppbv #	32
29) Chloroform	5.75	83	74838	0.276	ppbv	95
34) 2-Butanone	5.26	43	70058	0.431	ppbv #	72
36) Benzene	6.89	78	42903	0.120	ppbv #	90
38) Trichloroethene	7.84	130	4623629	23.255	ppbv	87
41) Tetrahydrofuran	6.08	42	19885m	0.222	ppbv	
50) 4-Methyl-2-Pentanone	8.78	43	24125m	0.103	ppbv	
52) Tetrachloroethene	11.24	164	2991169	13.720	ppbv	87
53) Toluene	9.82	91	247704	0.538	ppbv	98
58) Ethyl Benzene	12.73	91	54927m	0.095	ppbv	
59) m/p-Xylene	12.99	91	169729m	0.349	ppbv	
60) o-Xylene	13.71	91	66325	0.140	ppbv	89
74) 1,2,4-Trimethylbenzene	16.78	105	199422	0.318	ppbv #	71
79) Naphthalene	22.23	128	92386m	0.105	ppbv	

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

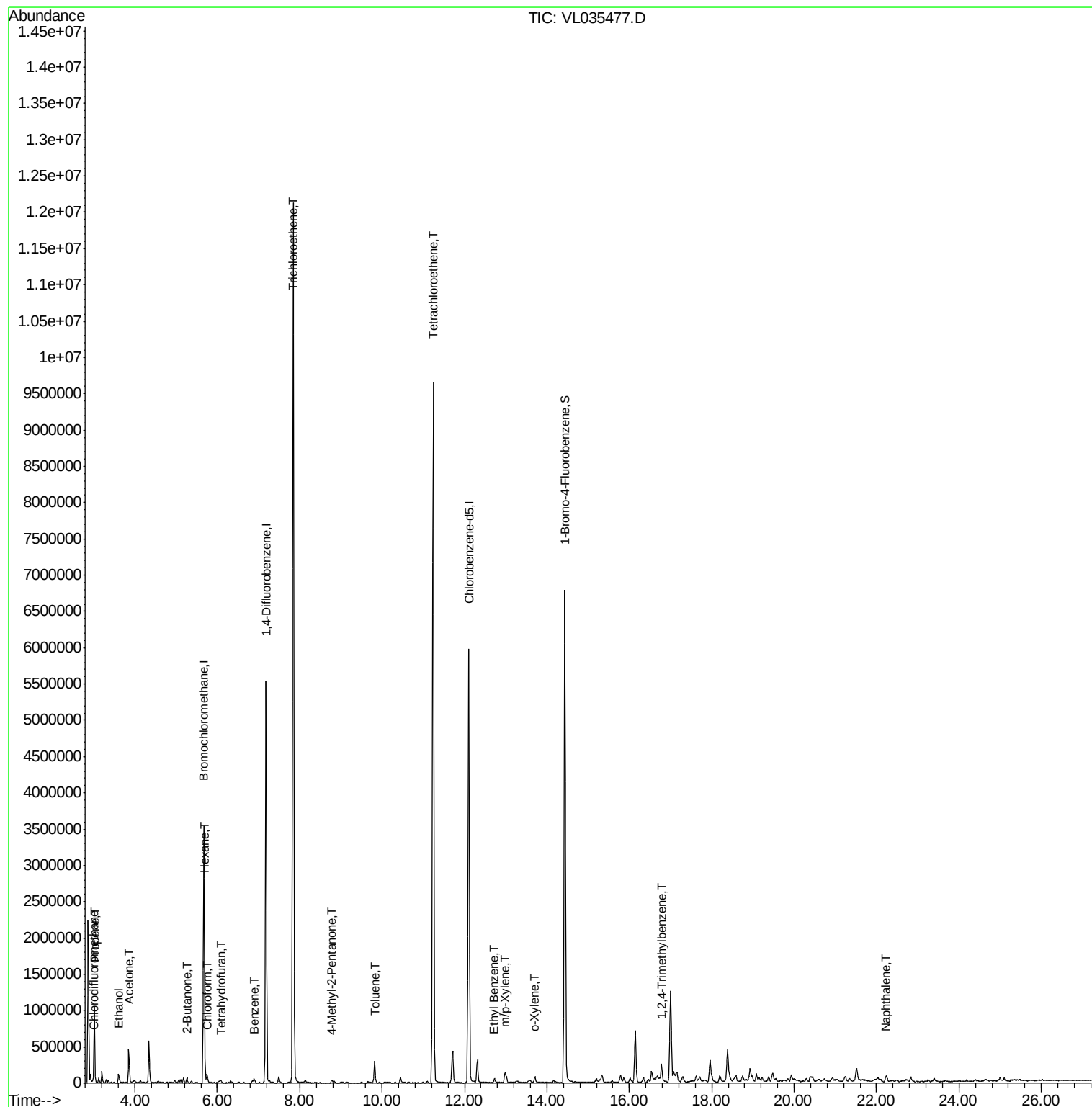
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL082020\
Data File : VL035477.D
Acq On : 20 Aug 2020 16:28
Operator : SY/AP
Sample : L3743-02DL 10X
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Instrument :
MSVOA_L
ClientSampleId :
SSMP-2DL

Manual Integrations
APPROVED

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8/21/2020 11:24:23 AM

Quant Time: Aug 21 09:55:07 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug
QLast Update : Mon Aug 17 19:28:30 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL035477.D

Acq: 20 Aug 2020 16:28

Instrument :

MSVOA_L

ClientSampleId :

SSMP-2DL

Tot Ion: 49 Resp: 1068807

Ion Ratio Lower Upper

49 100

128 101.6 20.9 62.7#

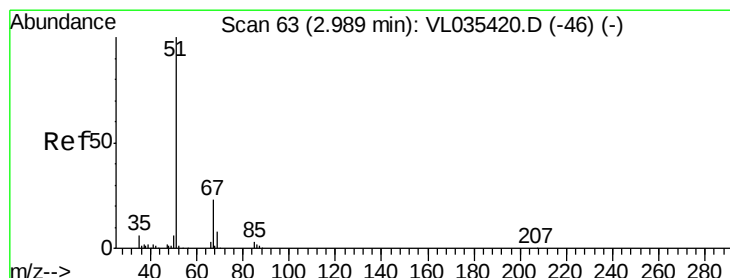
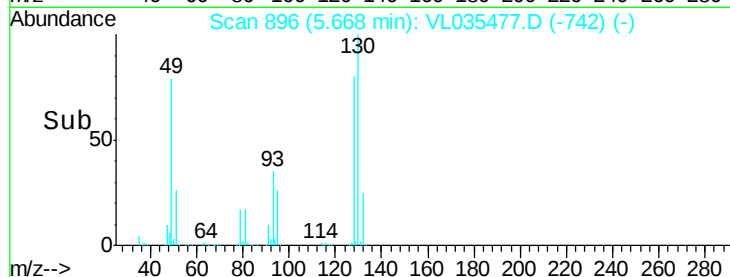
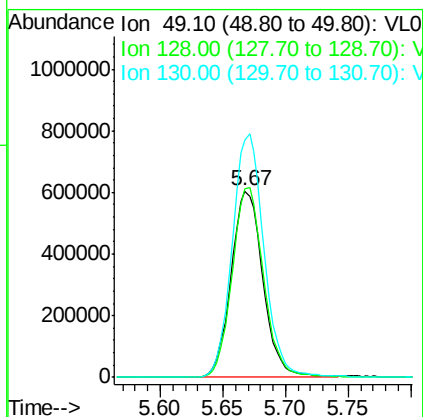
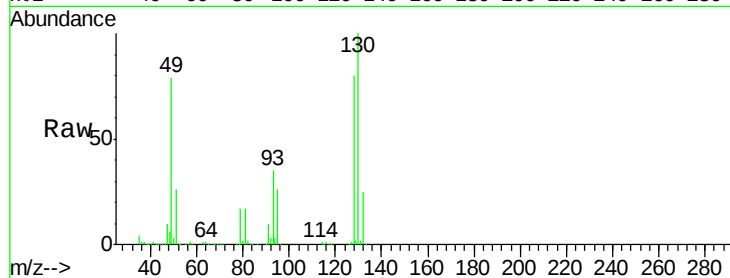
130 131.0 26.7 80.1#

Manual Integrations

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#3

Chlorodifluoromethane

Concen: 0.202 ppbv m

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL035477.D

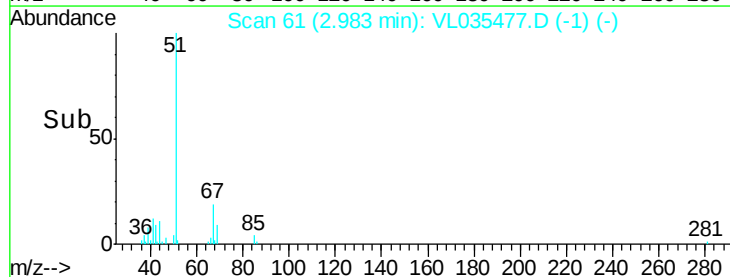
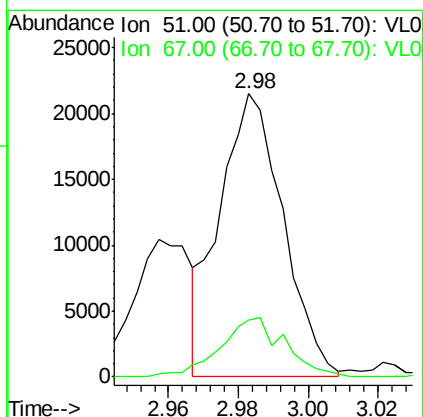
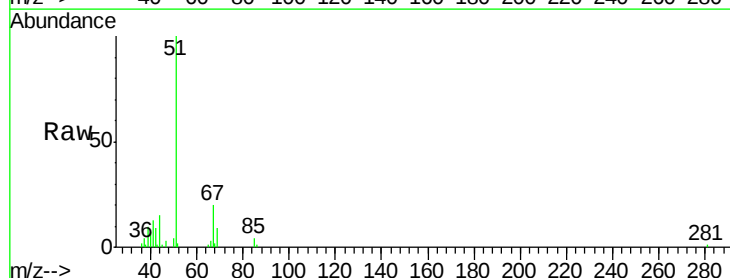
Acq: 20 Aug 2020 16:28

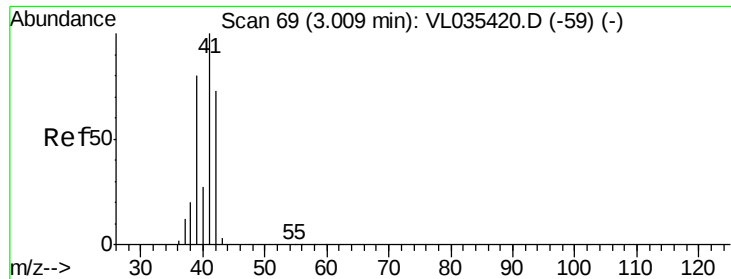
Tgt Ion: 51 Resp: 27104

Ion Ratio Lower Upper

51 100

67 21.4 15.0 22.6





#9

Propene

Concen: 5.071 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL035477.D

Acq: 20 Aug 2020 16:28

Instrument :

MSVOA_L

ClientSampleId :

SSMP-2DL

Tot Ion: 41 Resp: 273132

Ion Ratio Lower Upper

41 100

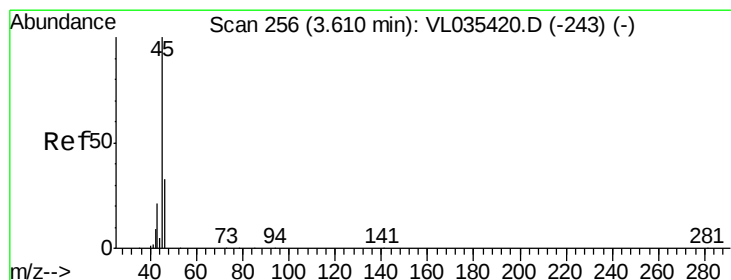
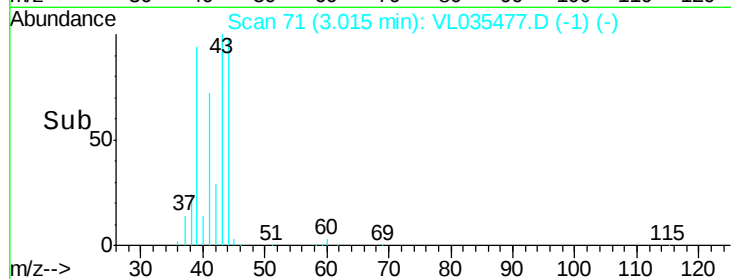
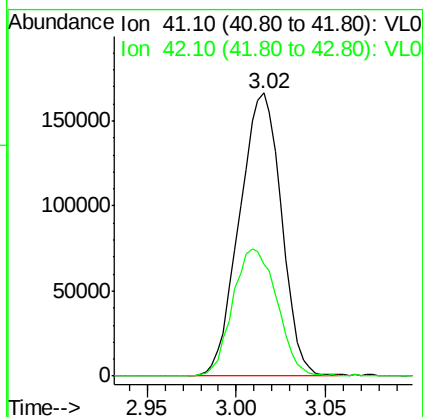
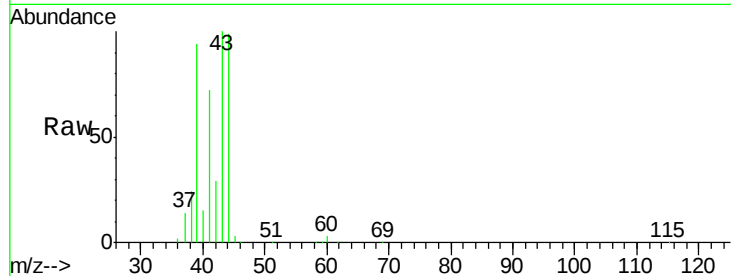
42 47.6 55.5 83.3#

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#13

Ethanol

Concen: 6.823 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.01 min

Lab File: VL035477.D

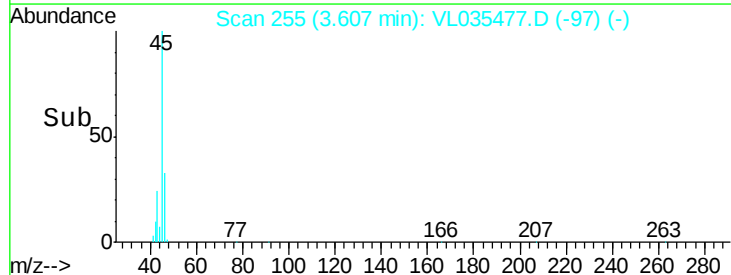
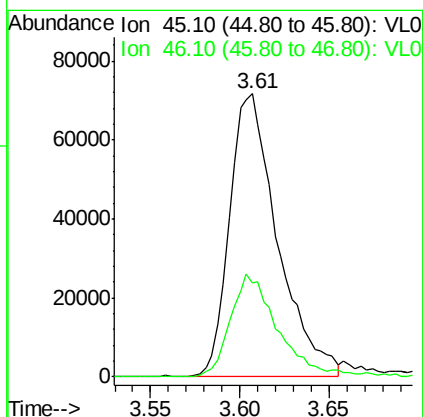
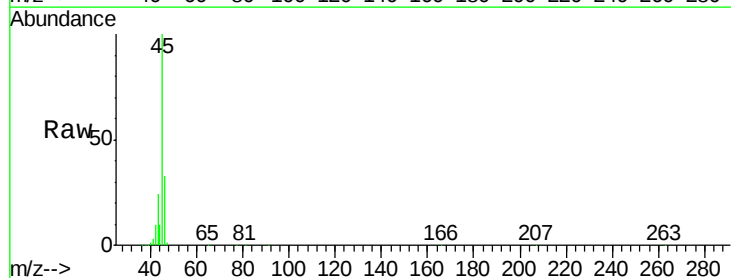
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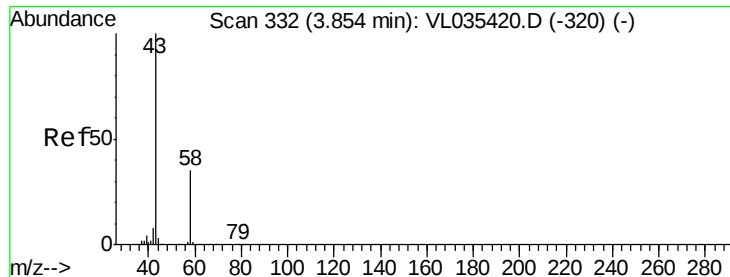
Tgt Ion: 45 Resp: 134649

Ion Ratio Lower Upper

45 100

46 37.0 14.2 56.6





#15

Acetone

Concen: 3.465 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL035477.D

Acq: 20 Aug 2020 16:28

Instrument :

MSVOA_L

ClientSampleId :

SSMP-2DL

Tot Ion: 43 Resp: 426295

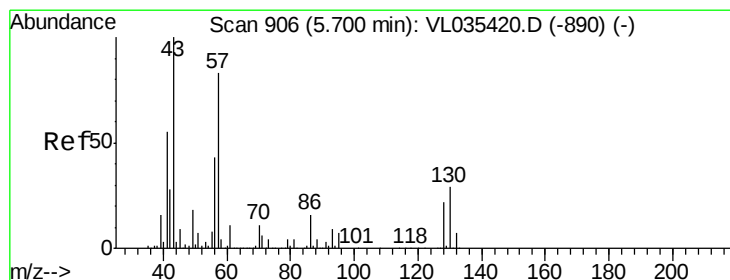
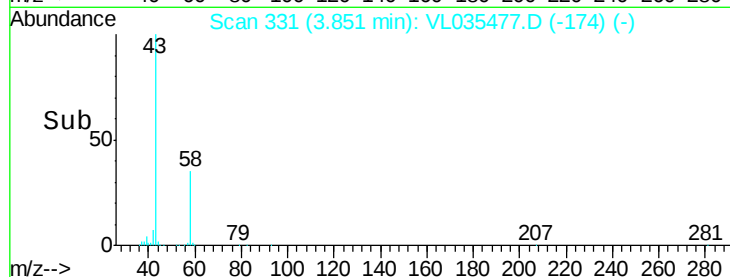
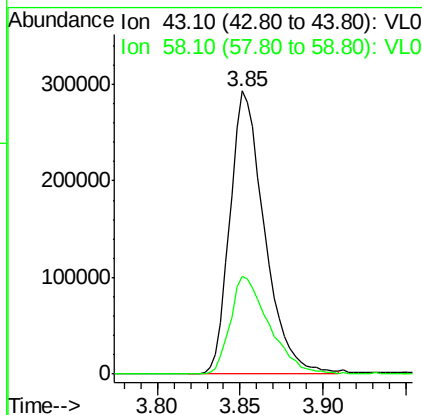
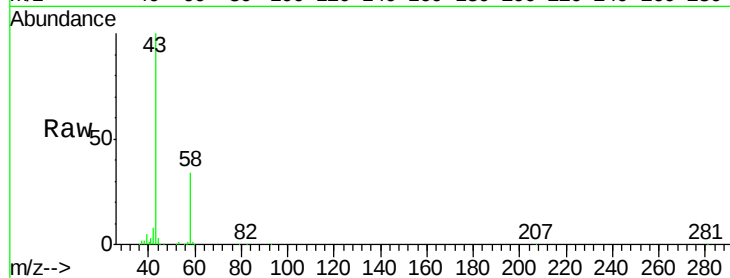
Ion Ratio Lower Upper

43 100

58 38.6 21.0 31.6#

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#26

Hexane

Concen: 0.620 ppbv

RT: 5.69 min Scan# 903

Delta R.T. -0.00 min

Lab File: VL035477.D

Acq: 20 Aug 2020 16:28

Tgt Ion: 57 Resp: 83806

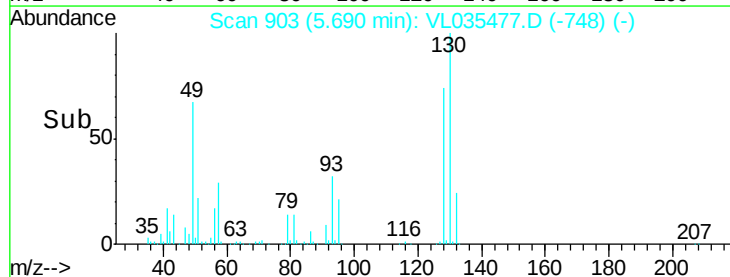
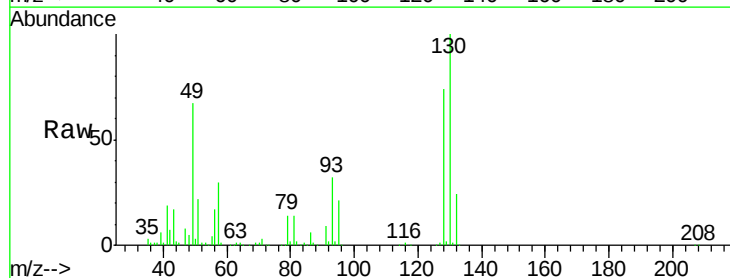
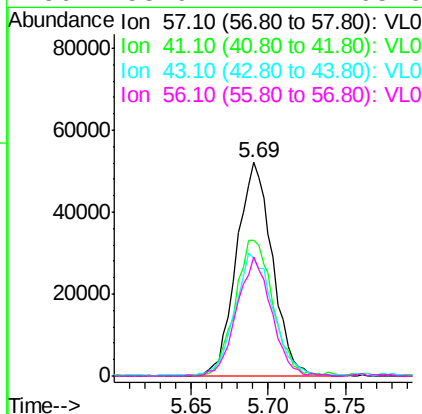
Ion Ratio Lower Upper

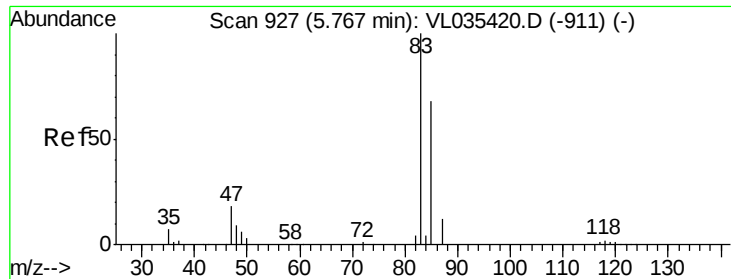
57 100

41 68.6 75.5 113.3#

43 61.3 181.7 272.5#

56 53.9 42.4 63.6





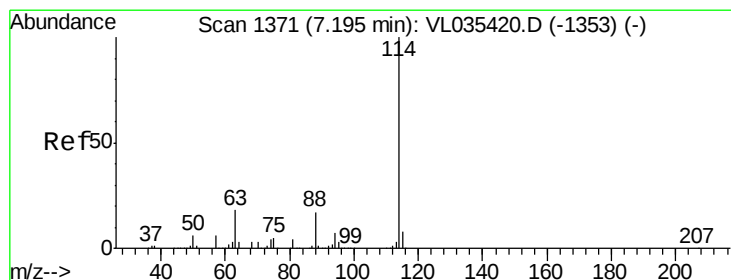
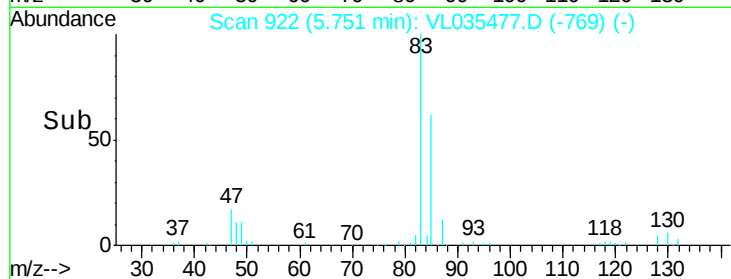
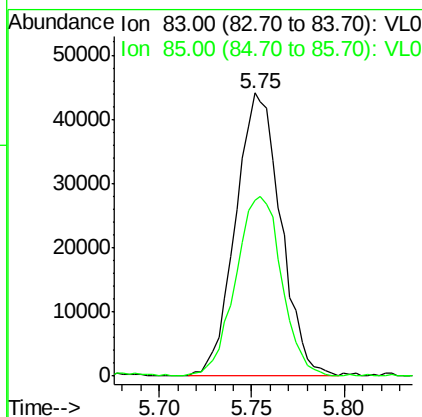
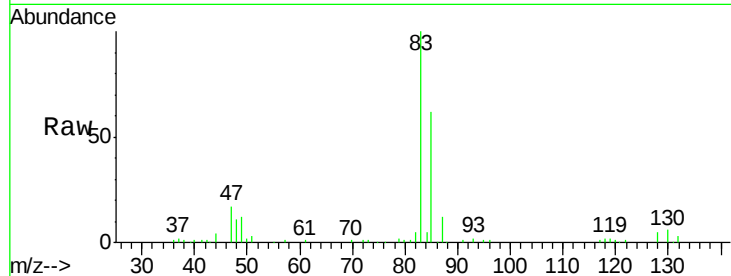
#29
Chloroform
Concen: 0.276 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.01 min
Lab File: VL035477.D
Acq: 20 Aug 2020 16:28

Instrument :
MSVOA_L
ClientSampleId :
SSMP-2DL

Tot Ion: 83 Resp: 74838
Ion Ratio Lower Upper
83 100
85 61.9 52.7 79.1

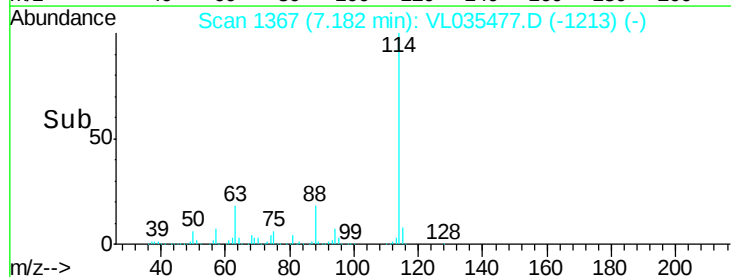
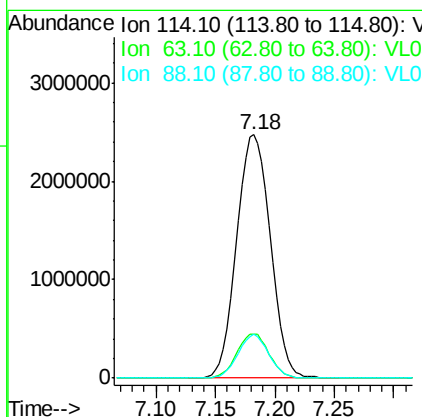
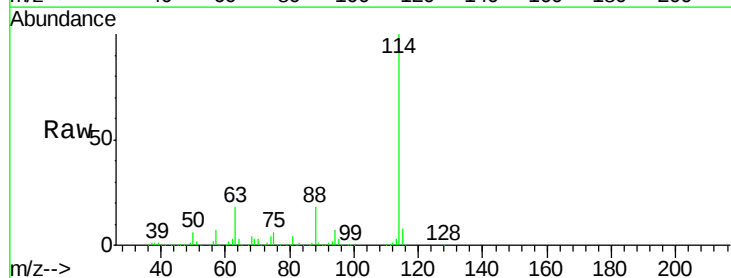
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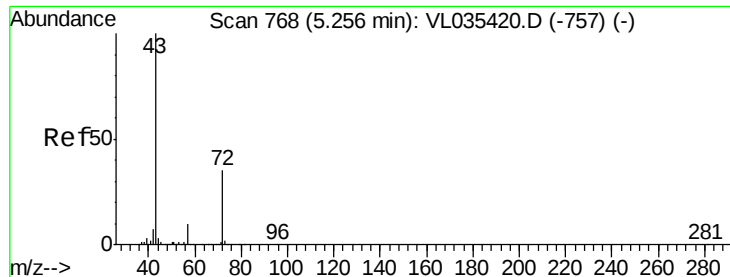
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. -0.01 min
Lab File: VL035477.D
Acq: 20 Aug 2020 16:28

Tgt Ion: 114 Resp: 4869926
Ion Ratio Lower Upper
114 100
63 17.4 23.1 34.7#
88 16.4 15.9 23.9





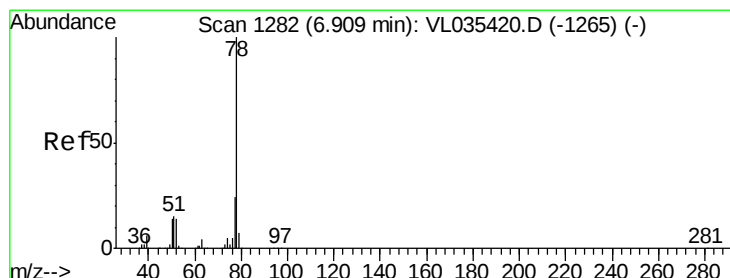
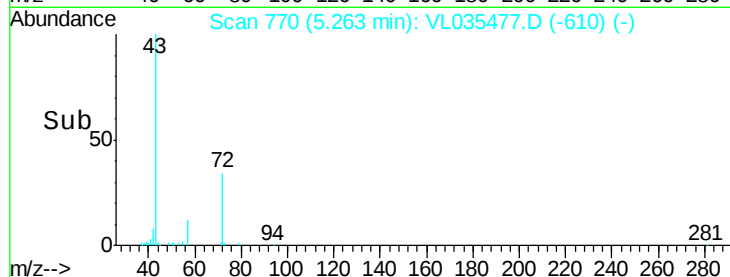
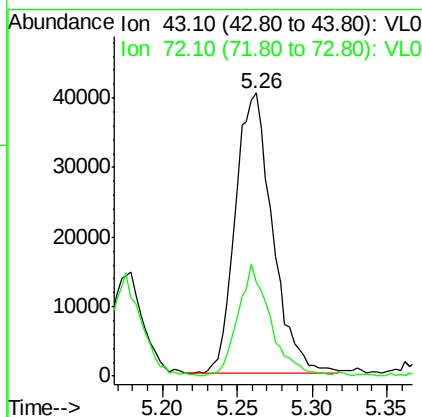
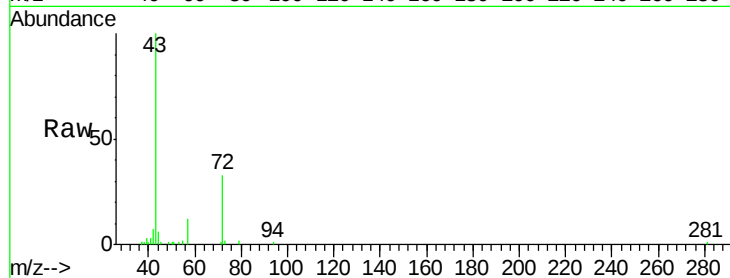
#34
 2-Butanone
 Concen: 0.431 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. 0.01 min
 Lab File: VL035477.D
 Acq: 20 Aug 2020 16:28

Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-2DL

Tot Ion: 43 Resp: 70058
 Ion Ratio Lower Upper
 43 100
 72 35.3 17.6 26.4#

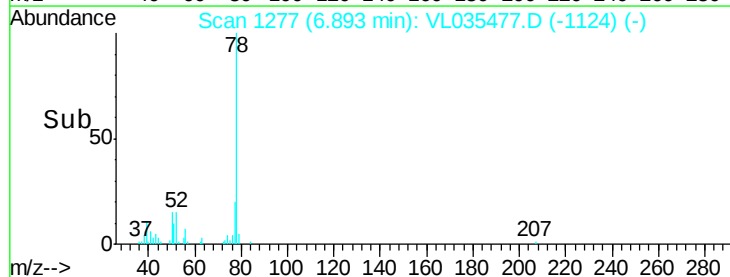
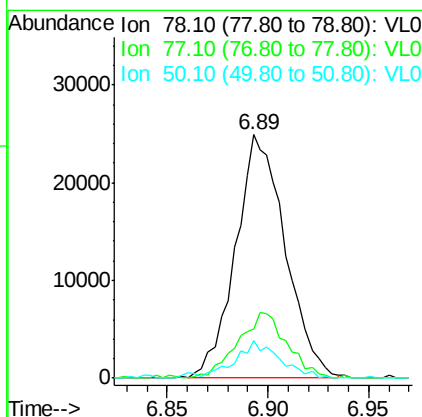
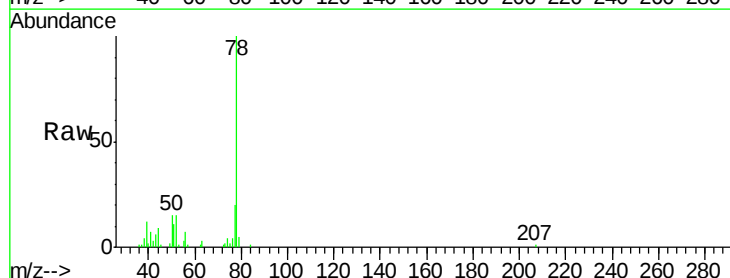
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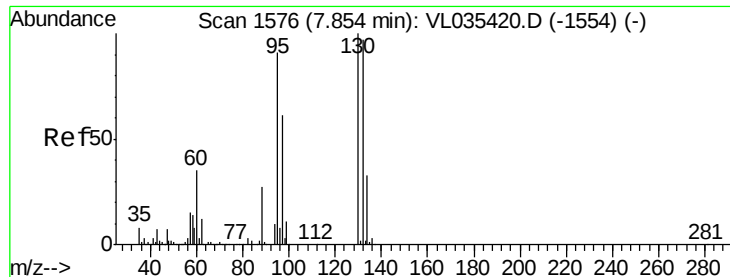
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#36
 Benzene
 Concen: 0.120 ppbv
 RT: 6.89 min Scan# 1277
 Delta R.T. -0.01 min
 Lab File: VL035477.D
 Acq: 20 Aug 2020 16:28

Tgt Ion: 78 Resp: 42903
 Ion Ratio Lower Upper
 78 100
 77 19.9 19.6 29.4
 50 15.2 16.3 24.5#





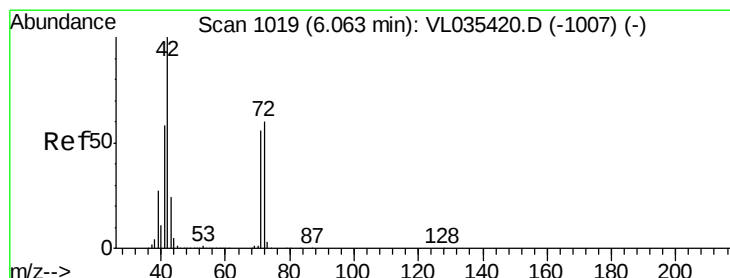
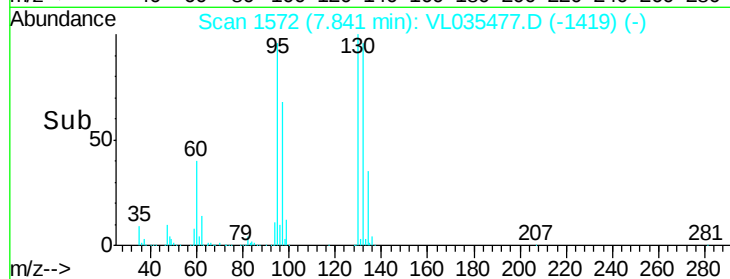
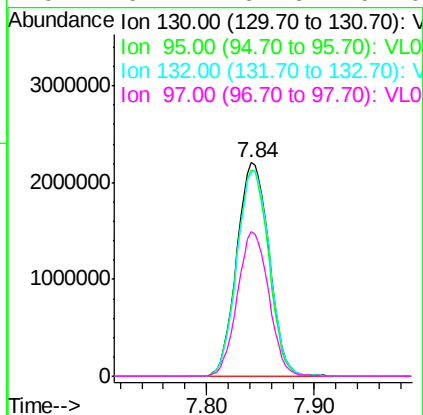
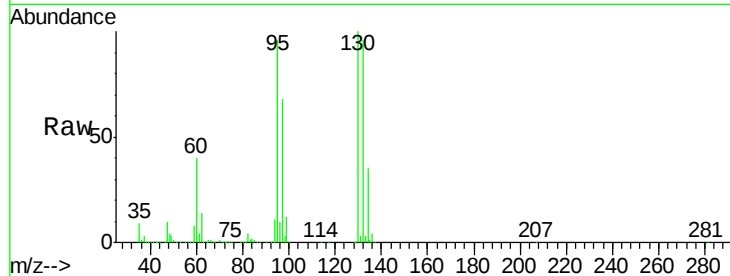
#38
 Trichloroethene
 Concen: 23.255 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: VL035477.D
 Acq: 20 Aug 2020 16:28

Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-2DL

Tot Ion:	130	Resp:	4623629
Ion	Ratio	Lower	Upper
130	100		
95	96.3	95.8	143.8
132	95.6	74.3	111.5
97	67.7	62.6	94.0

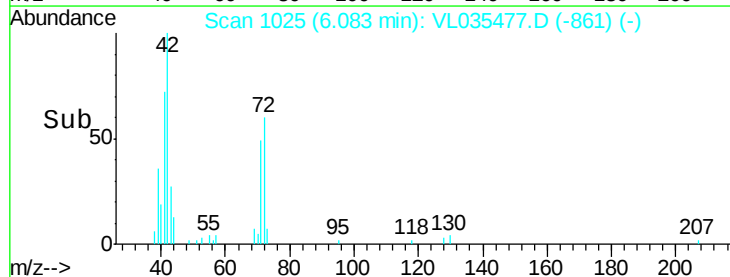
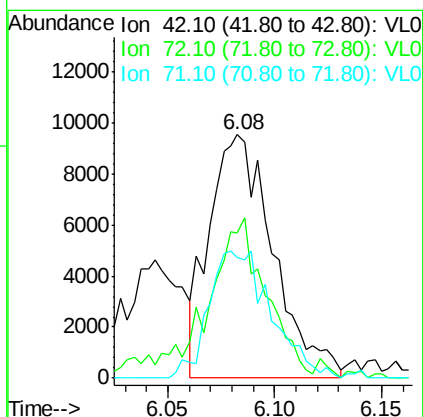
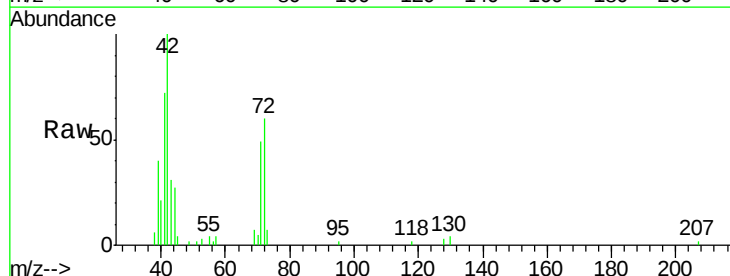
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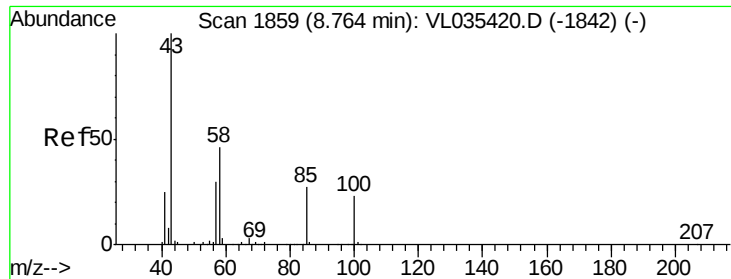
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#41
 Tetrahydrofuran
 Concen: 0.222 ppbv m
 RT: 6.08 min Scan# 1025
 Delta R.T. 0.03 min
 Lab File: VL035477.D
 Acq: 20 Aug 2020 16:28

Tgt Ion:	42	Resp:	19885
Ion	Ratio	Lower	Upper
42	100		
72	0.0	29.4	44.2#
71	0.0	28.9	43.3#





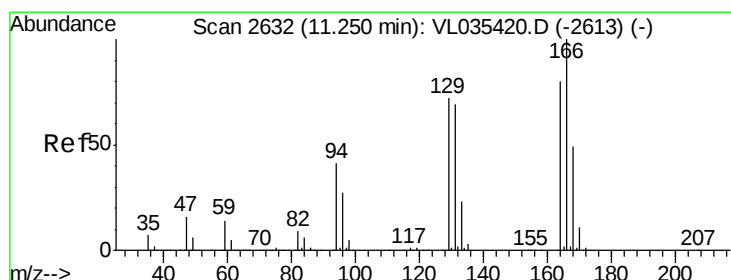
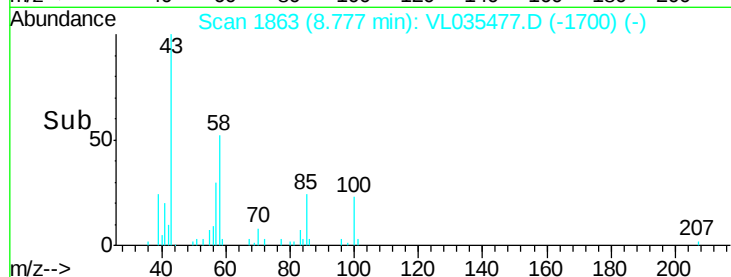
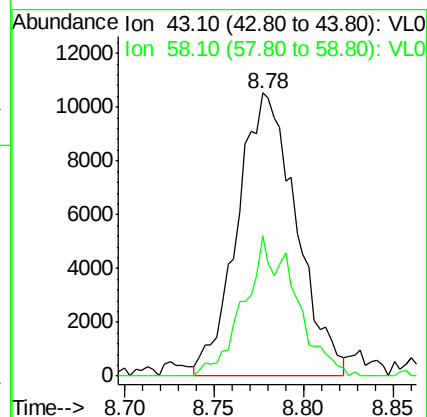
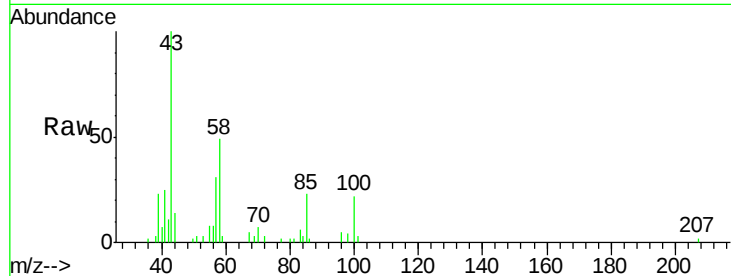
#50
4-Methyl-2-Pentanone
Concen: 0.103 ppbv
RT: 8.78 min Scan# 1863
Delta R.T. 0.02 min
Lab File: VL035477.D
Acq: 20 Aug 2020 16:28

Instrument :
MSVOA_L
ClientSampleId :
SSMP-2DL

Tot Ion: 43 Resp: 24125
Ion Ratio Lower Upper
43 100
58 0.0 28.7 43.1#

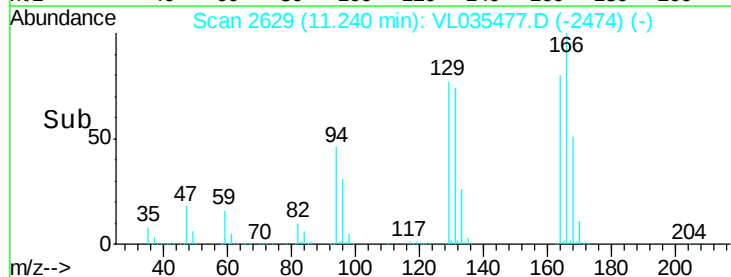
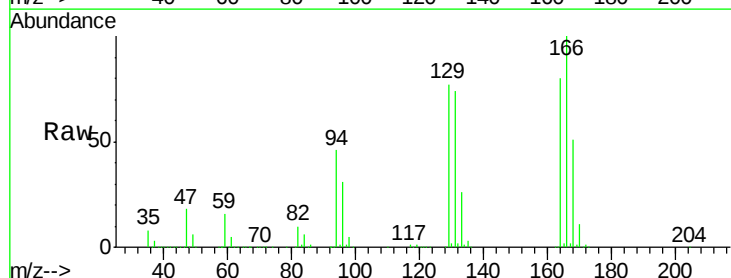
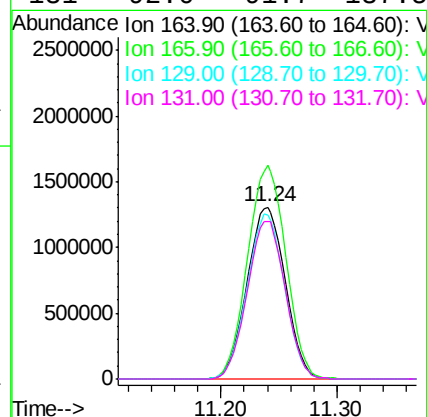
Manual Integrations
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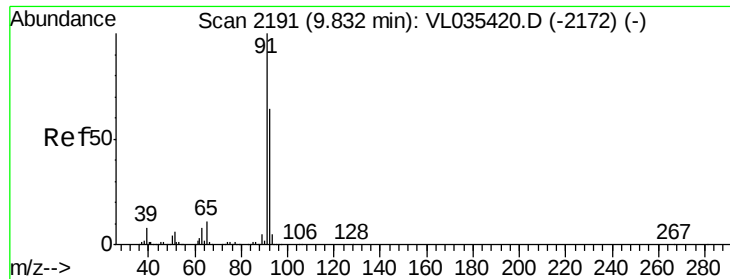
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#52
Tetrachloroethene
Concen: 13.720 ppbv
RT: 11.24 min Scan# 2629
Delta R.T. -0.00 min
Lab File: VL035477.D
Acq: 20 Aug 2020 16:28

Tgt Ion: 164 Resp: 2991169
Ion Ratio Lower Upper
164 100
166 124.4 103.4 155.0
129 95.4 90.2 135.4
131 92.0 91.7 137.5





#53

Toluene

Concen: 0.538 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.00 min

Lab File: VL035477.D

Acq: 20 Aug 2020 16:28

Instrument :

MSVOA_L

ClientSampleId :

SSMP-2DL

Tot Ion: 91 Resp: 247704

Ion Ratio Lower Upper

91 100

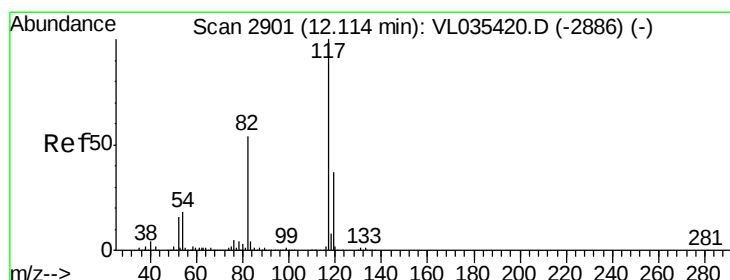
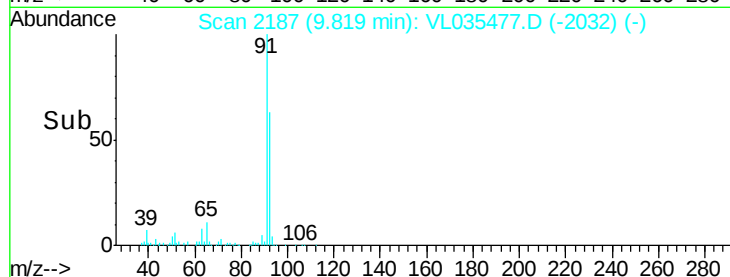
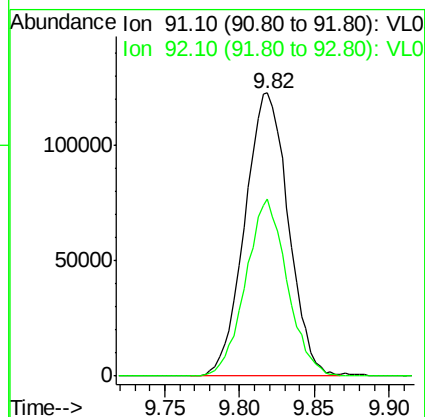
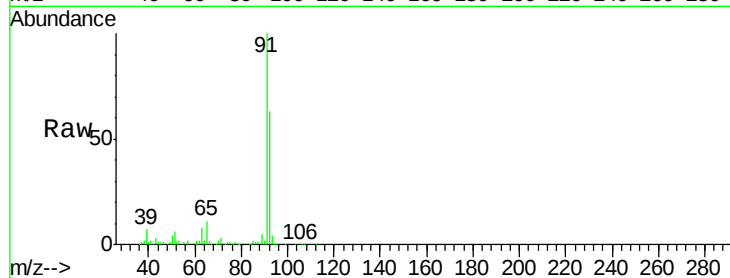
92 60.1 49.1 73.7

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. -0.01 min

Lab File: VL035477.D

Acq: 20 Aug 2020 16:28

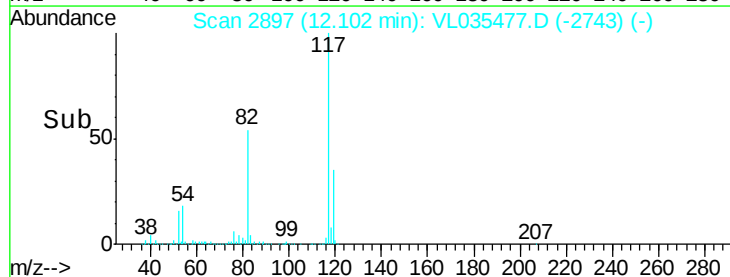
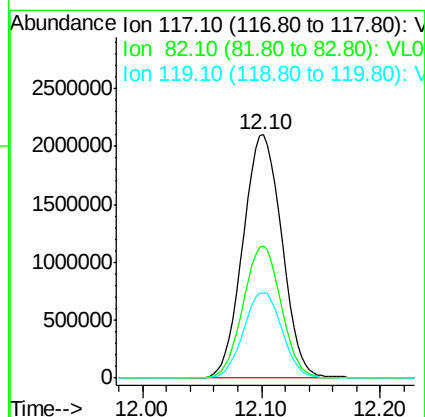
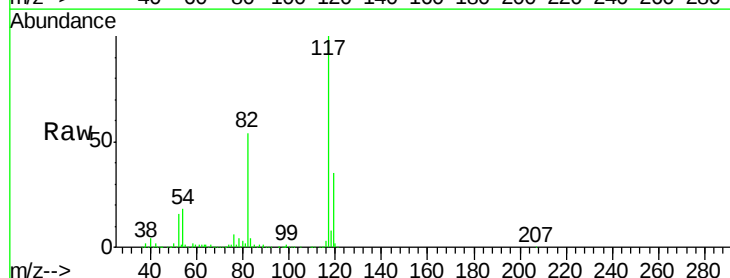
Tgt Ion: 117 Resp: 4768044

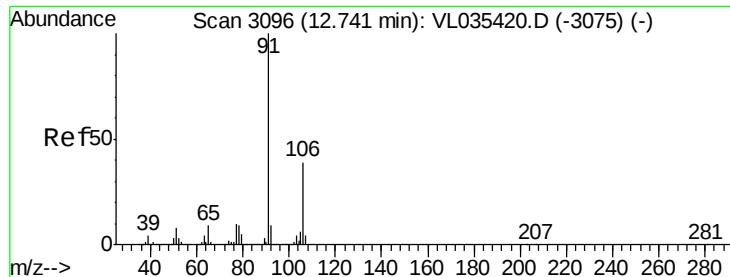
Ion Ratio Lower Upper

117 100

82 53.5 57.4 86.0#

119 35.0 28.4 42.6





#58

Ethyl Benzene

Concen: 0.095 ppbv m

RT: 12.73 min Scan# 3092

Delta R.T. -0.00 min

Lab File: VL035477.D

Acq: 20 Aug 2020 16:28

Instrument :

MSVOA_L

ClientSampled :

SSMP-2DL

Tot Ion: 91 Resp: 54927

Ion Ratio Lower Upper

91 100

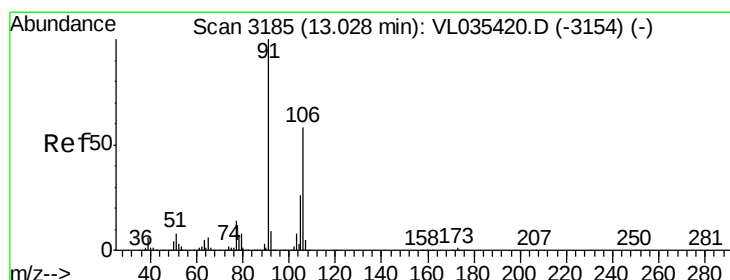
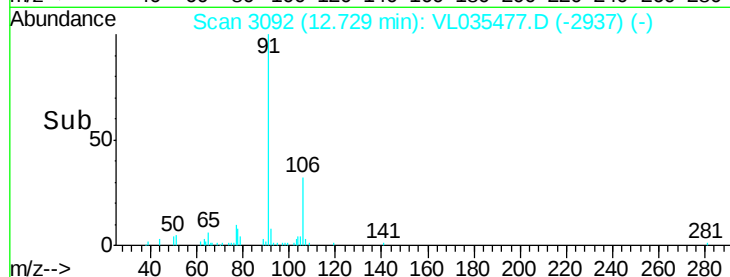
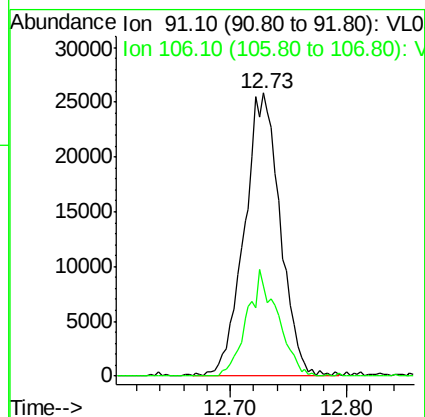
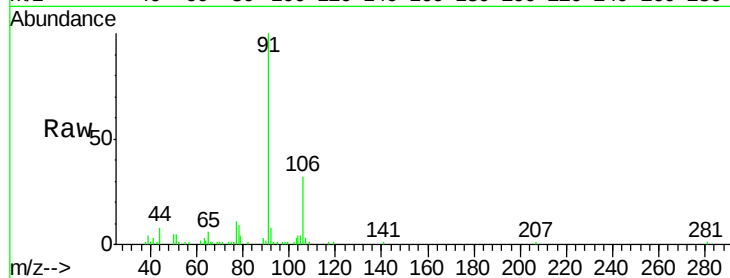
106 31.8 24.1 36.1

Manual Integrations

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#59

m/p-Xylene

Concen: 0.349 ppbv m

RT: 12.99 min Scan# 3172

Delta R.T. -0.04 min

Lab File: VL035477.D

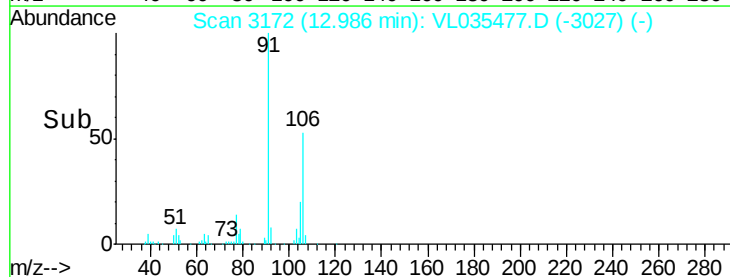
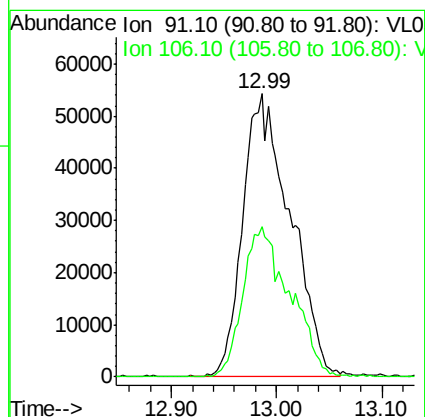
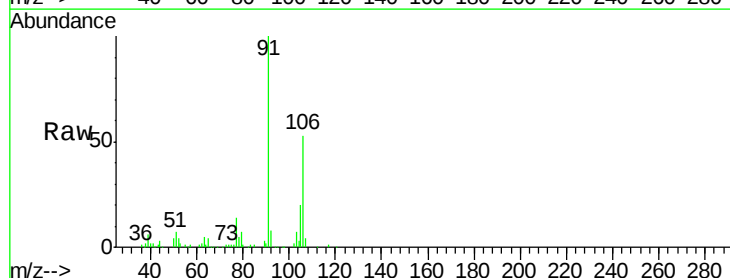
Acq: 20 Aug 2020 16:28

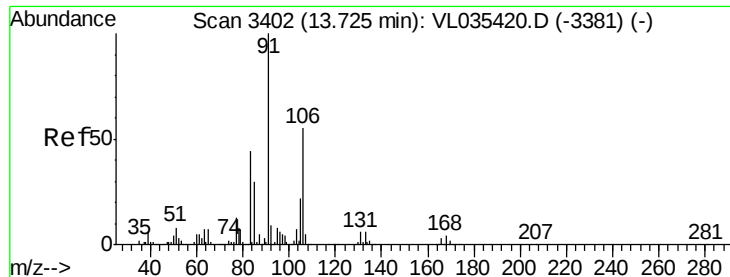
Tgt Ion: 91 Resp: 169729

Ion Ratio Lower Upper

91 100

106 0.0 34.0 51.0#





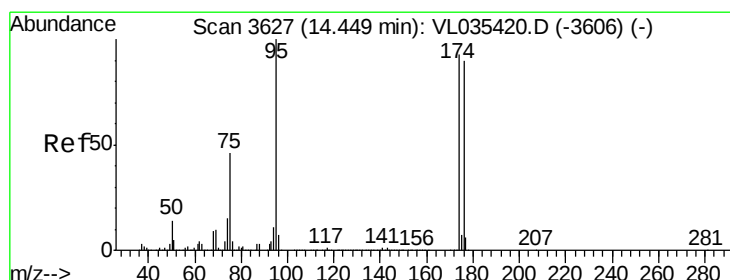
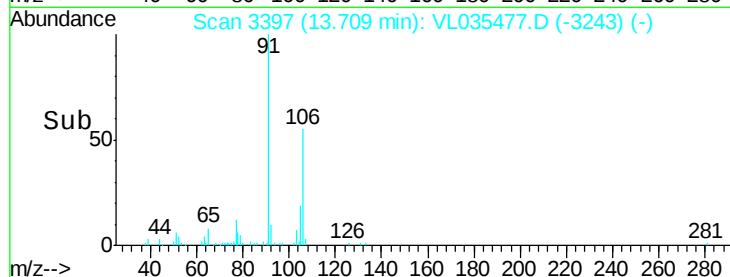
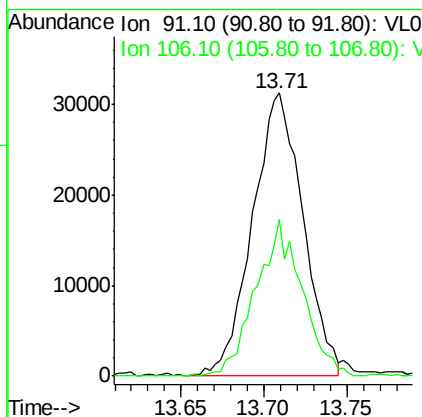
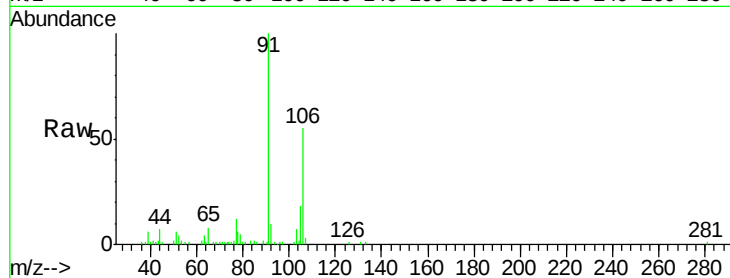
#60
o-Xylene
Concen: 0.140 ppbv
RT: 13.71 min Scan# 3397
Delta R.T. -0.01 min
Lab File: VL035477.D
Acq: 20 Aug 2020 16:28

Instrument :
MSVOA_L
ClientSampleId :
SSMP-2DL

Tot Ion: 91 Resp: 66325
Ion Ratio Lower Upper
91 100
106 50.6 21.8 65.3

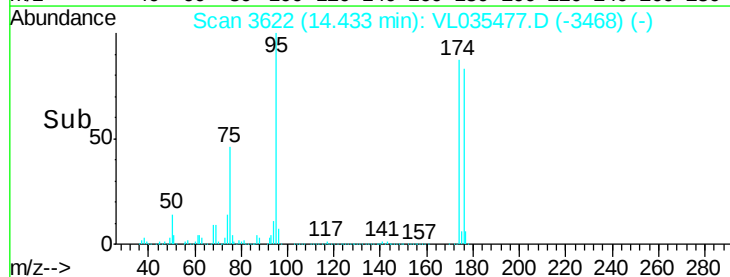
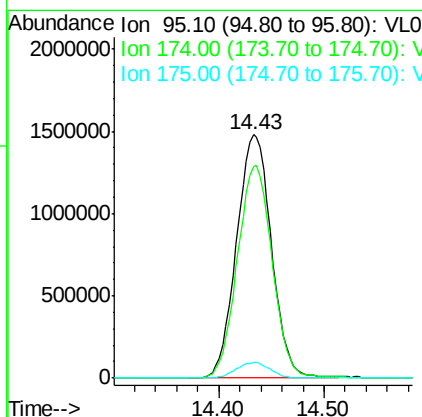
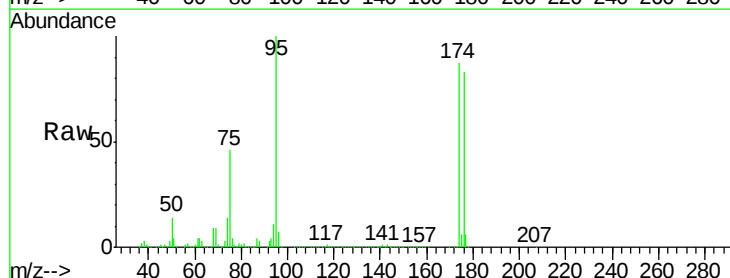
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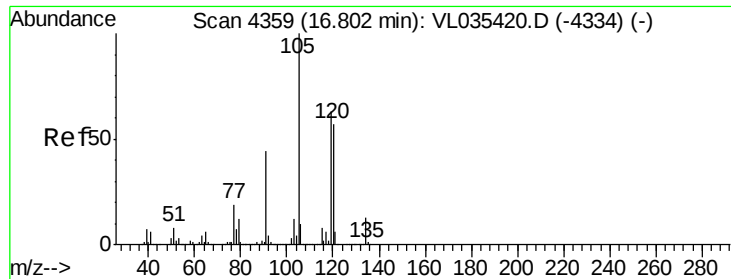
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.184 ppbv
RT: 14.43 min Scan# 3622
Delta R.T. -0.01 min
Lab File: VL035477.D
Acq: 20 Aug 2020 16:28

Tgt Ion: 95 Resp: 3399554
Ion Ratio Lower Upper
95 100
174 88.2 44.0 66.0#
175 6.3 3.2 4.8#





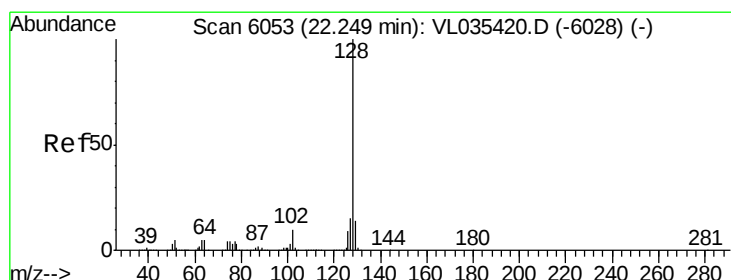
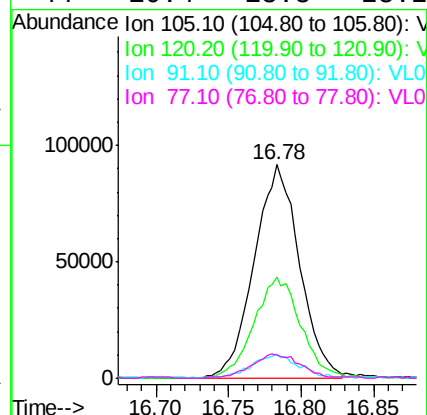
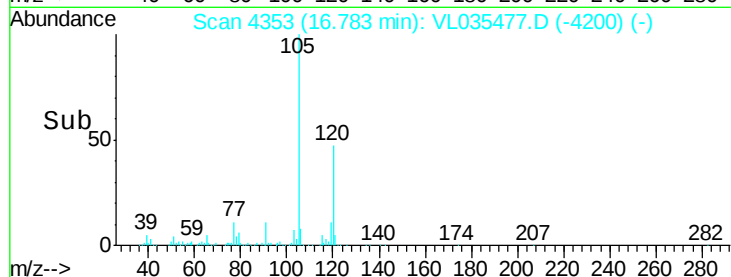
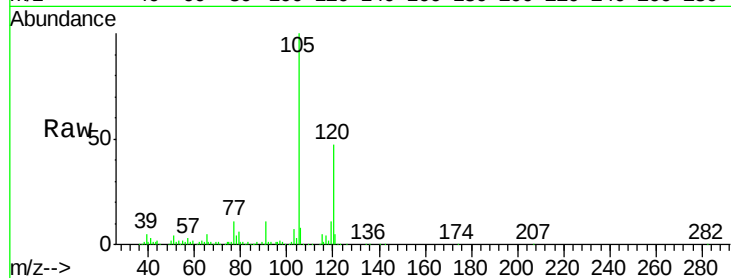
#74
 1,2,4-Trimethylbenzene
 Concen: 0.318 ppbv
 RT: 16.78 min Scan# 4353
 Delta R.T. -0.01 min
 Lab File: VL035477.D
 Acq: 20 Aug 2020 16:28

Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-2DL

Tot Ion	Ratio	Resp	Lower	Upper
105	100	199422		
120	47.2		37.8	56.8
91	10.4		40.0	60.0#
77	10.4		18.8	28.2#

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#79
 Naphthalene
 Concen: 0.105 ppbv m
 RT: 22.23 min Scan# 6048
 Delta R.T. -0.01 min
 Lab File: VL035477.D
 Acq: 20 Aug 2020 16:28

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	92386		
127	13.5		11.4	17.0
129	9.8		9.5	14.3

