

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082020\
 Data File : VL035479.D
 Acq On : 20 Aug 2020 17:48
 Operator : SY/AP
 Sample : L3743-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-3DL

Manual Integrations
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 8/21/2020 11:24:28 AM

Quant Time: Aug 21 06:57:53 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	1088370	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	5036021	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4925674	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	3541136	10.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.02	41	220122	4.013	ppbv #	74
10) Heptane	8.13	43	23681	0.165	ppbv #	76
13) Ethanol	3.61	45	2374599	118.162	ppbv	98
15) Acetone	3.85	43	646819	5.163	ppbv #	79
17) tert-Butyl alcohol	4.31	59	45174	0.279	ppbv	99
20) Methylene Chloride	4.35	84	357129	3.533	ppbv #	64
26) Hexane	5.69	57	156405	1.137	ppbv #	32
30) Cyclohexane	7.14	84	19124	0.125	ppbv #	17
34) 2-Butanone	5.25	43	119133	0.708	ppbv #	68
36) Benzene	6.90	78	73871m	0.200	ppbv	
38) Trichloroethene	7.84	130	193880	0.943	ppbv #	83
41) Tetrahydrofuran	6.07	42	34627	0.373	ppbv #	66
44) 2,2,4-Trimethylpentane	7.88	57	70493	0.146	ppbv	92
52) Tetrachloroethene	11.24	164	113911	0.505	ppbv	85
53) Toluene	9.82	91	560921	1.178	ppbv	98
58) Ethyl Benzene	12.72	91	115164	0.194	ppbv	98
59) m/p-Xylene	12.99	91	344036	0.684	ppbv #	84
60) o-Xylene	13.71	91	130306	0.267	ppbv	91
61) Styrene	13.55	104	22662m	0.057	ppbv	
72) 4-Ethyltoluene	15.86	105	83084	0.130	ppbv #	94
73) 1,3,5-Trimethylbenzene	16.02	105	82508	0.138	ppbv	99
74) 1,2,4-Trimethylbenzene	16.78	105	335809	0.518	ppbv #	71
79) Naphthalene	22.23	128	114914	0.126	ppbv	97
80) Naphthalene,2-methyl-	25.00	142	33977	0.090	ppbv	94

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

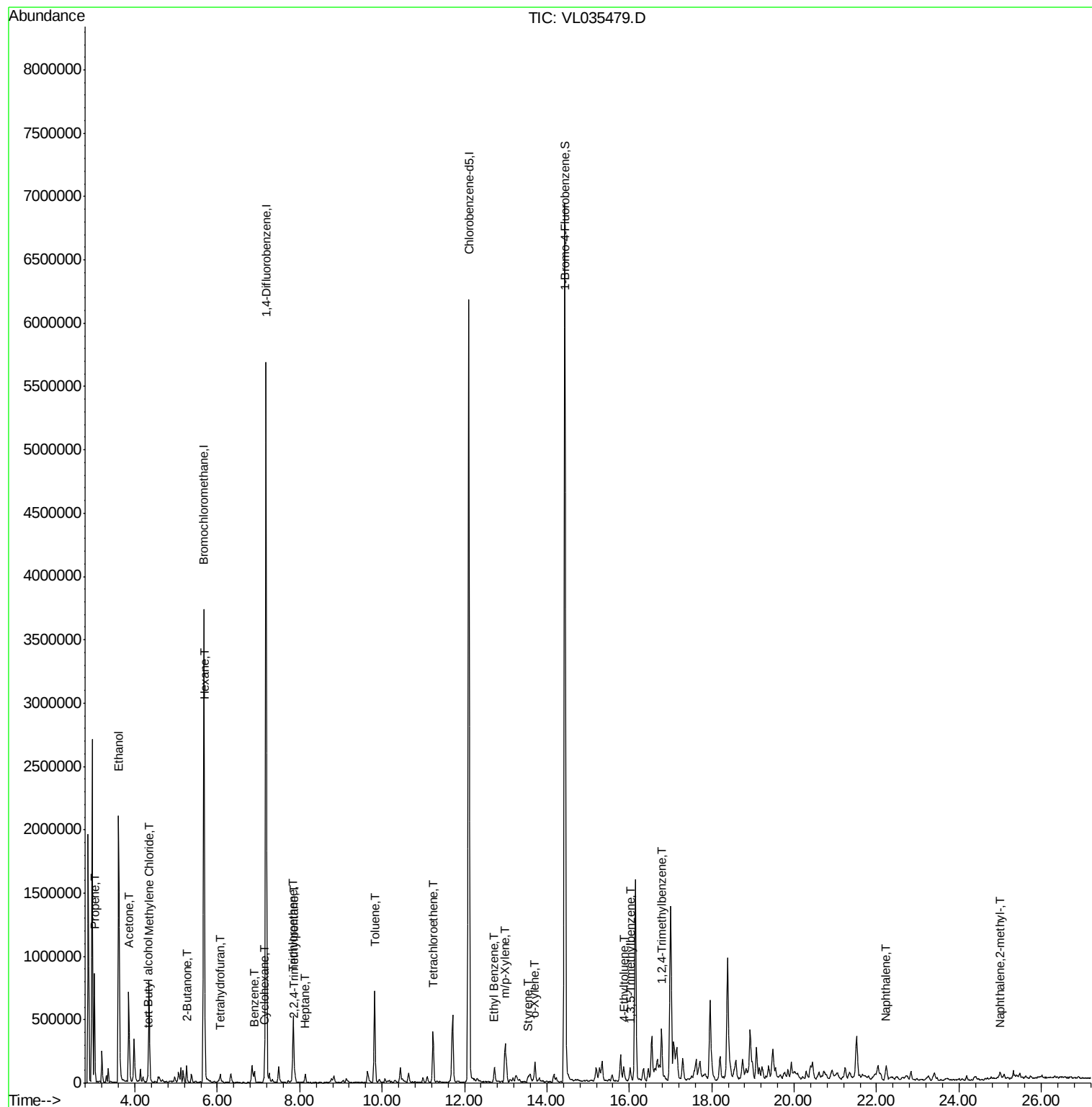
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL082020\
Data File : VL035479.D
Acq On : 20 Aug 2020 17:48
Operator : SY/AP
Sample : L3743-03DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

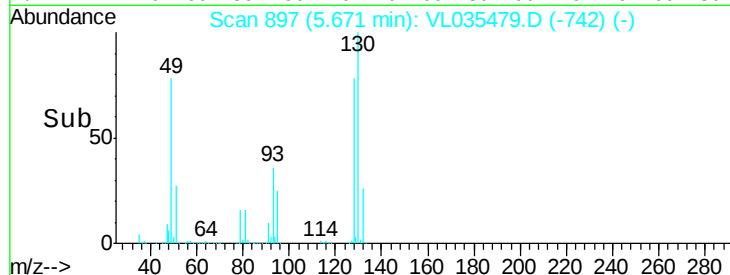
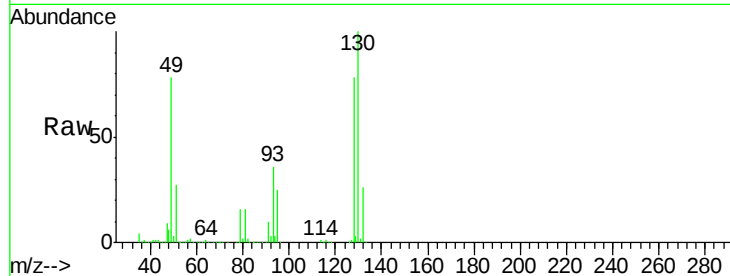
Instrument :
MSVOA_L
ClientSampleId :
SSMP-3DL

Manual Integrations
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Quant Time: Aug 21 06:57:53 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





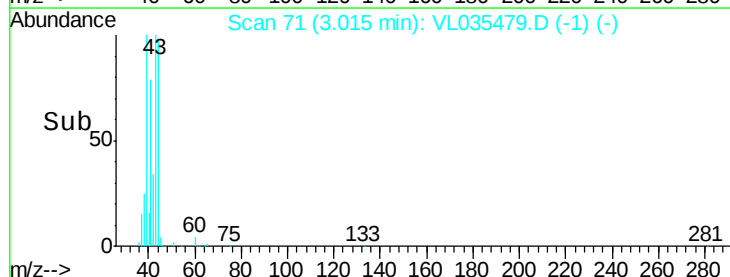
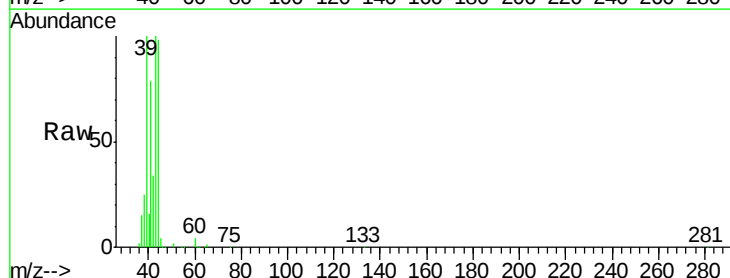
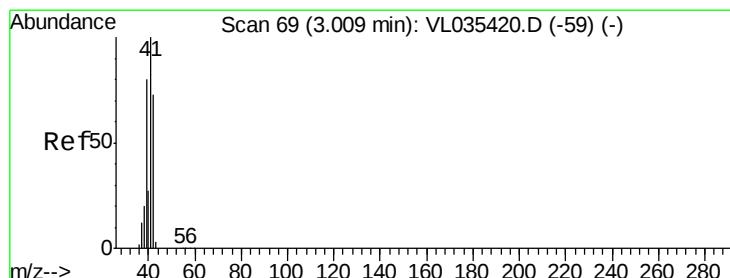
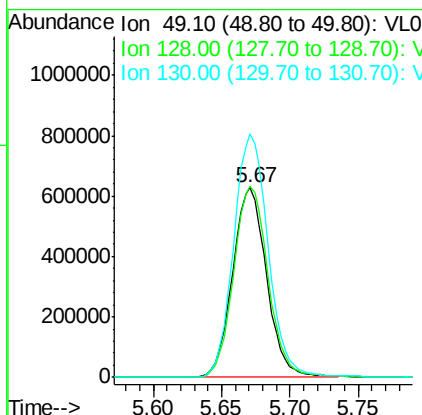
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.00 min
Lab File: VL035479.D
Acq: 20 Aug 2020 17:48

Instrument :
MSVOA_L
ClientSampleId :
SSMP-3DL

Tot Ion: 49 Resp: 1088370
Ion Ratio Lower Upper
49 100
128 102.9 20.9 62.7#
130 131.2 26.7 80.1#

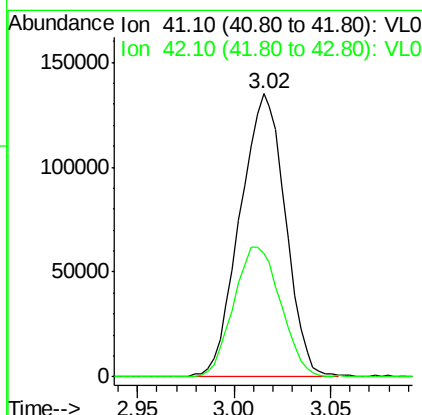
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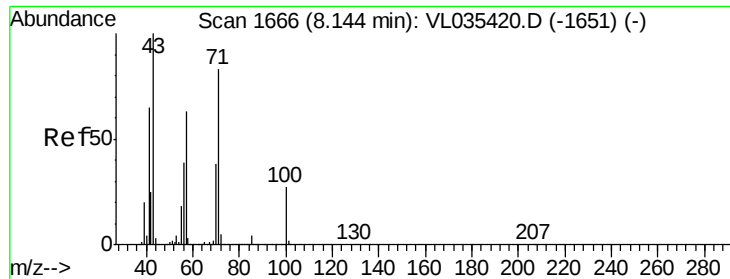
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#9
Propene
Concen: 4.013 ppbv
RT: 3.02 min Scan# 71
Delta R.T. 0.01 min
Lab File: VL035479.D
Acq: 20 Aug 2020 17:48

Tgt Ion: 41 Resp: 220122
Ion Ratio Lower Upper
41 100
42 48.1 55.5 83.3#





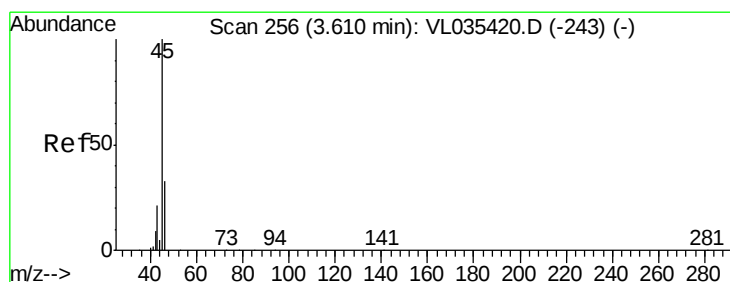
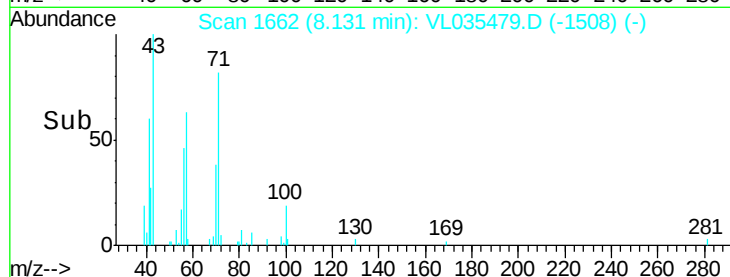
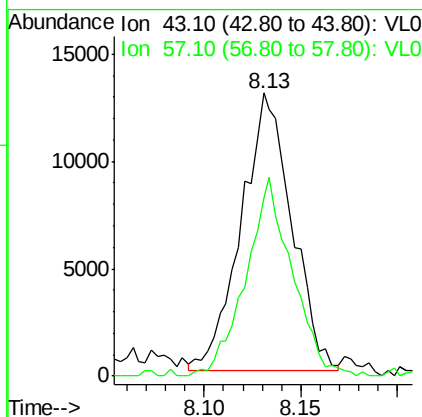
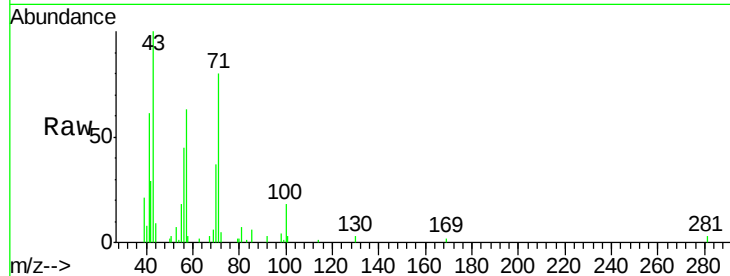
#10
Heptane
Concen: 0.165 ppbv
RT: 8.13 min Scan# 1662
Delta R.T. -0.01 min
Lab File: VL035479.D
Acq: 20 Aug 2020 17:48

Instrument :
MSVOA_L
ClientSampleId :
SSMP-3DL

Tot Ion: 43 Resp: 23681
Ion Ratio Lower Upper
43 100
57 66.2 39.8 59.6#

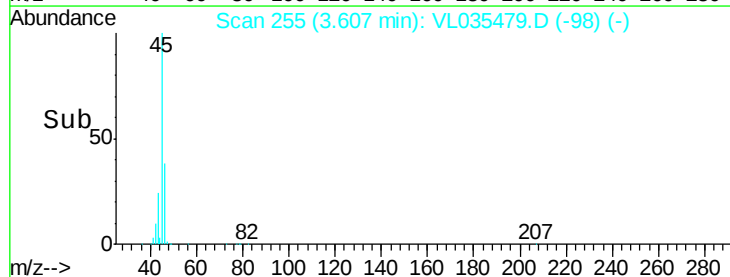
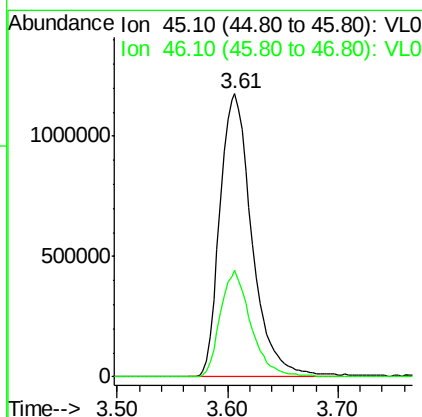
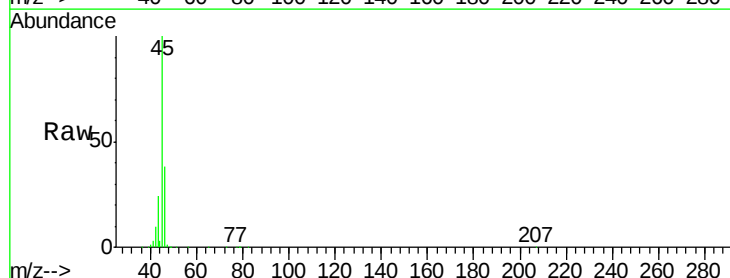
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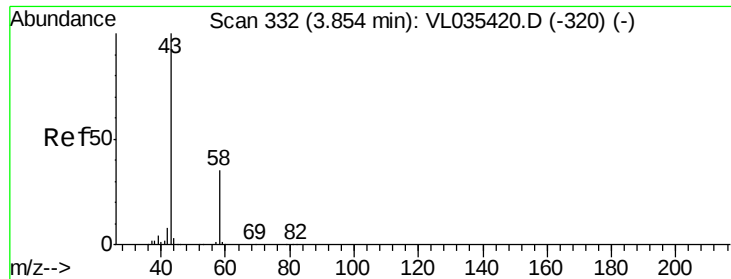
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#13
Ethanol
Concen: 118.162 ppbv
RT: 3.61 min Scan# 255
Delta R.T. 0.01 min
Lab File: VL035479.D
Acq: 20 Aug 2020 17:48

Tgt Ion: 45 Resp: 2374599
Ion Ratio Lower Upper
45 100
46 36.3 14.2 56.6





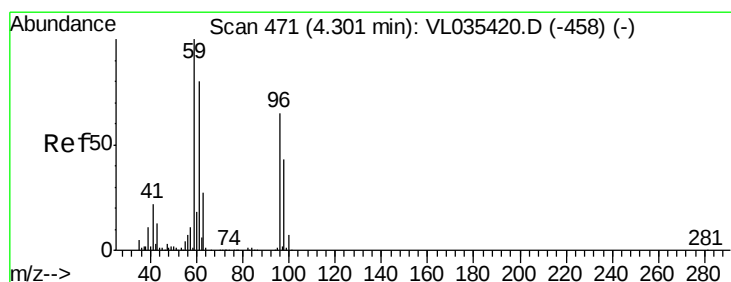
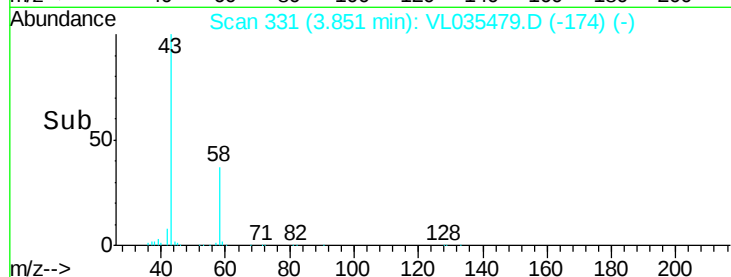
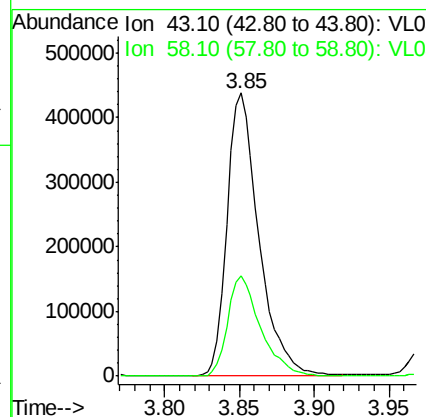
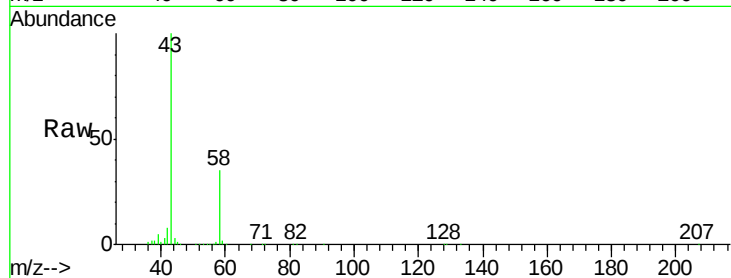
#15
Acetone
Concen: 5.163 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.00 min
Lab File: VL035479.D
Acq: 20 Aug 2020 17:48

Instrument :
MSVOA_L
ClientSampleId :
SSMP-3DL

Tot Ion: 43 Resp: 646819
Ion Ratio Lower Upper
43 100
58 36.9 21.0 31.6#

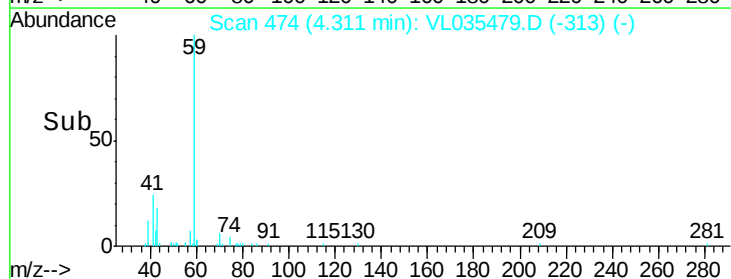
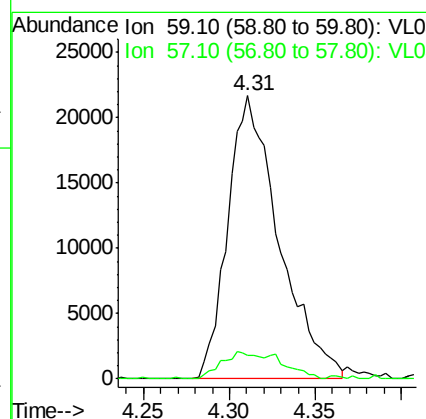
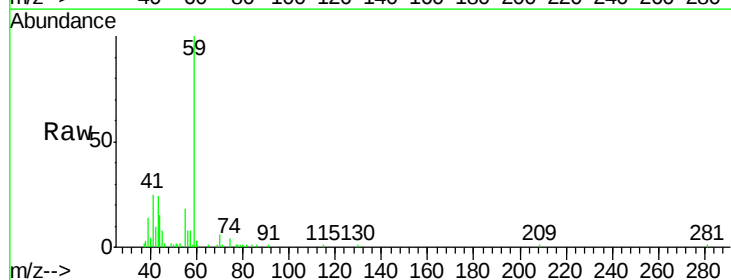
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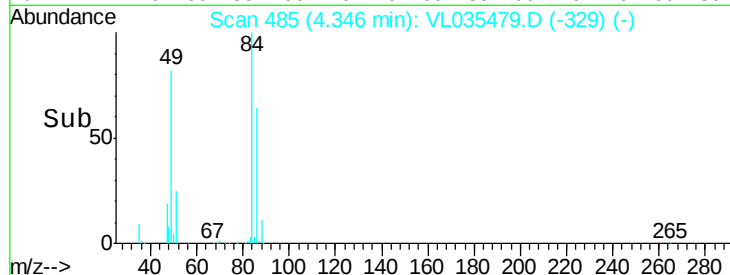
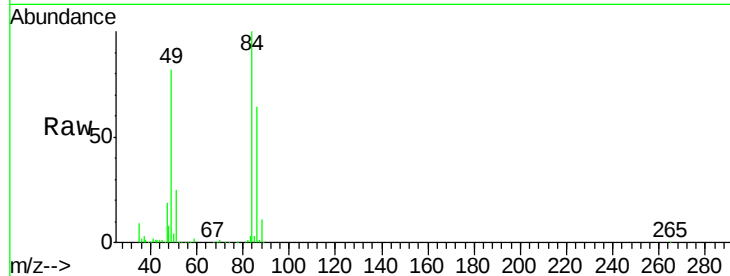
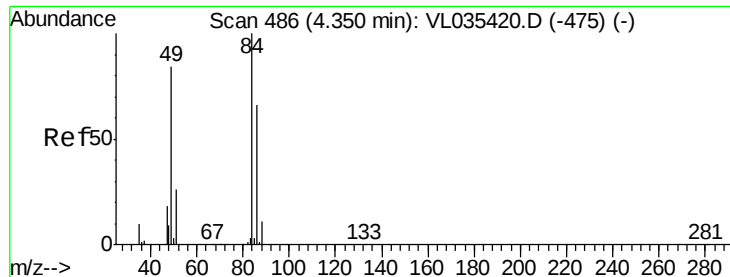
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#17
tert-Butyl alcohol
Concen: 0.279 ppbv
RT: 4.31 min Scan# 474
Delta R.T. 0.02 min
Lab File: VL035479.D
Acq: 20 Aug 2020 17:48

Tgt Ion: 59 Resp: 45174
Ion Ratio Lower Upper
59 100
57 11.5 8.9 13.3





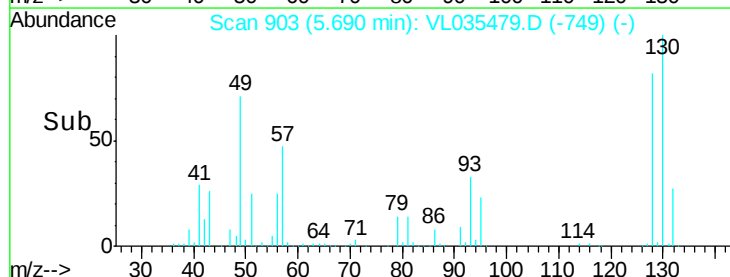
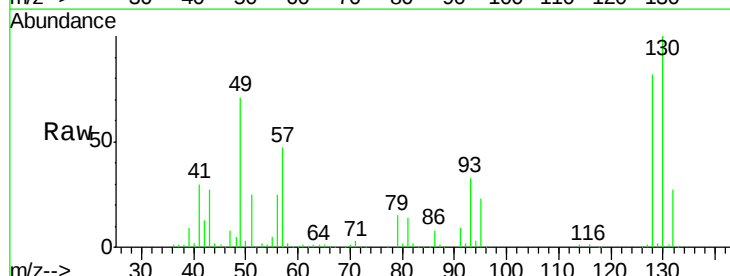
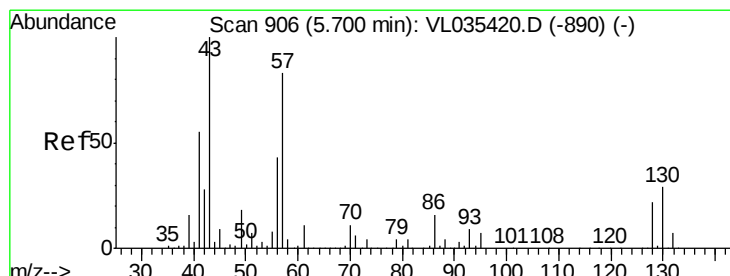
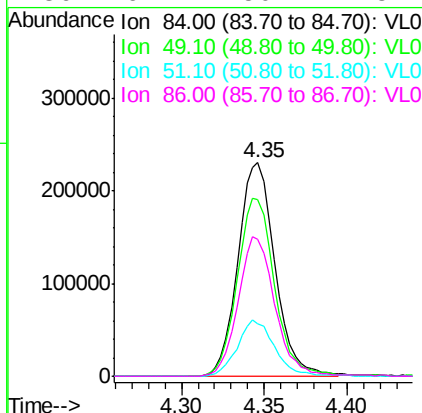
#20
Methvlene Chloride
Concen: 3.533 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.00 min
Lab File: VL035479.D
Acq: 20 Aug 2020 17:48

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100		357129		
49	82.3	118.6	177.8#		
51	24.8	36.4	54.6#		
86	64.1	50.2	75.4		

Instrument :
MSVOA_L
ClientSampleId :
SSMP-3DL

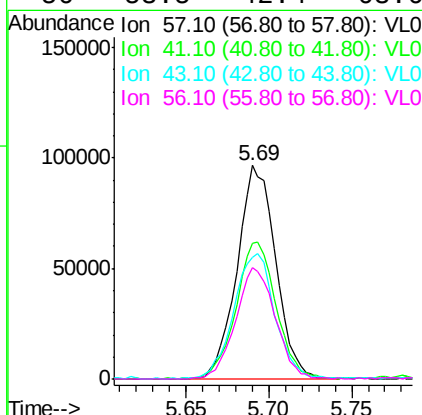
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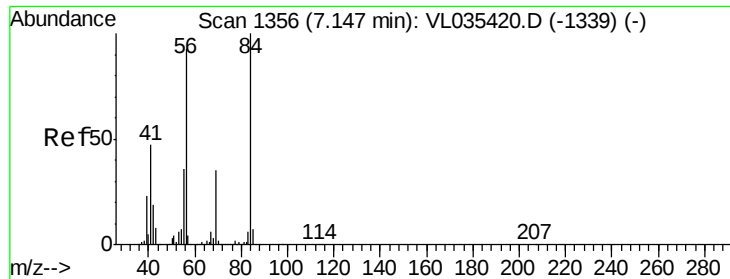
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#26
Hexane
Concen: 1.137 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.00 min
Lab File: VL035479.D
Acq: 20 Aug 2020 17:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		156405		
41	66.9	75.5	113.3#		
43	62.6	181.7	272.5#		
56	53.5	42.4	63.6		





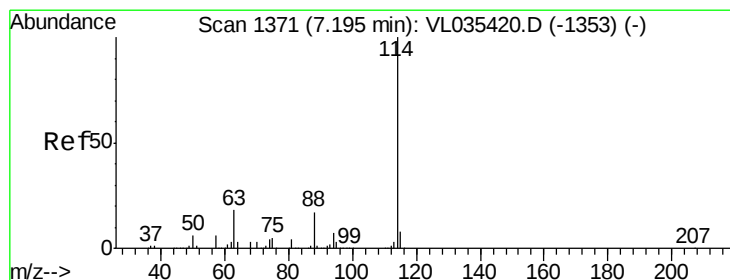
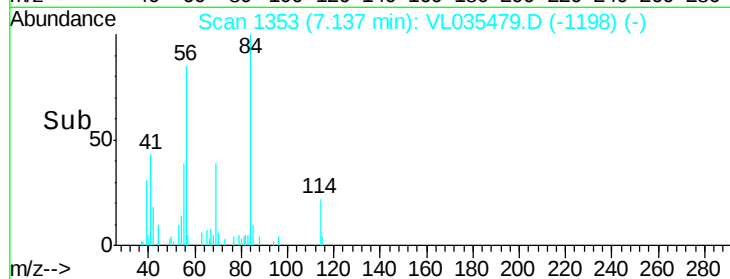
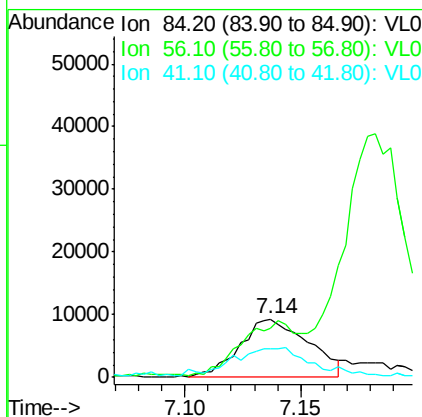
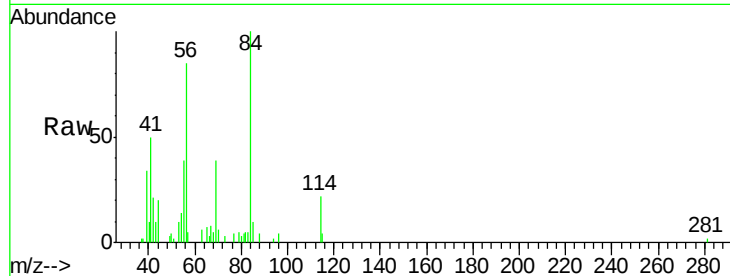
#30
Cyclohexane
Concen: 0.125 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. -0.00 min
Lab File: VL035479.D
Acq: 20 Aug 2020 17:48

Instrument :
MSVOA_L
ClientSampleId :
SSMP-3DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.9	172.3#
41	60.6	72.3	108.5#

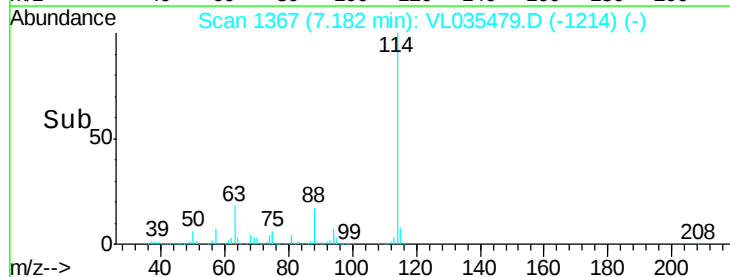
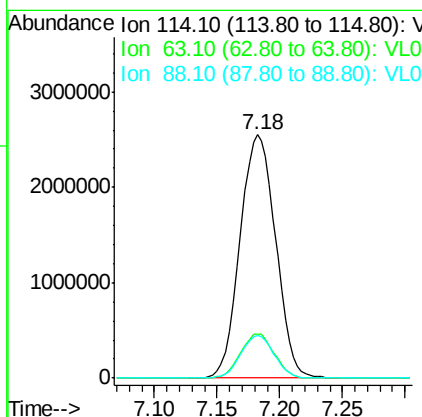
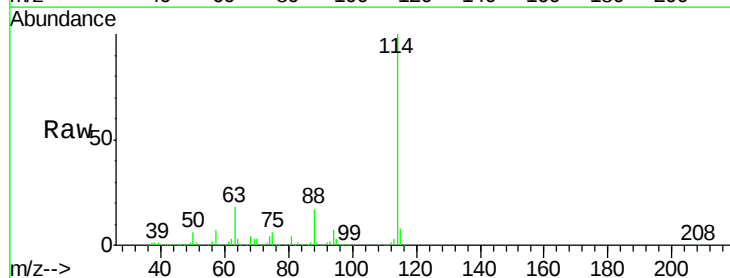
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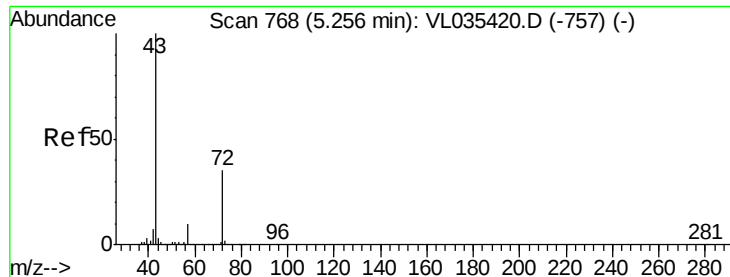
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. -0.01 min
Lab File: VL035479.D
Acq: 20 Aug 2020 17:48

Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.4	23.1	34.7#
88	16.6	15.9	23.9





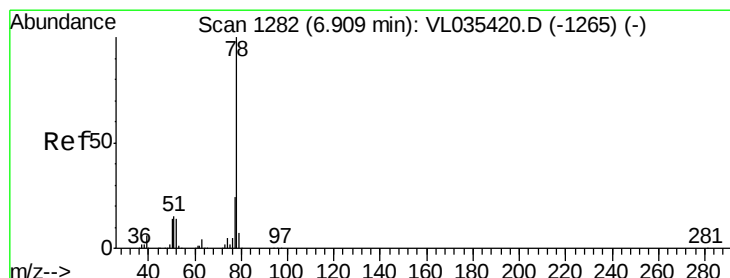
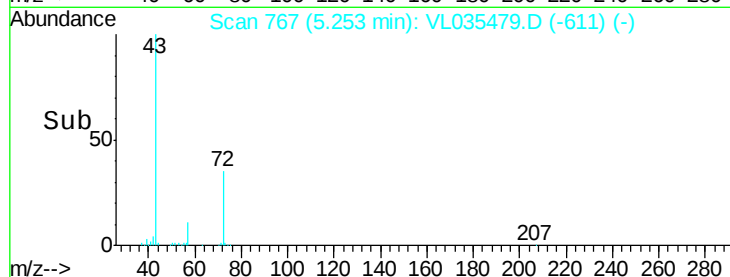
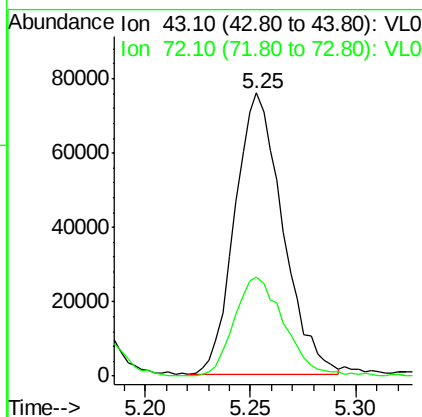
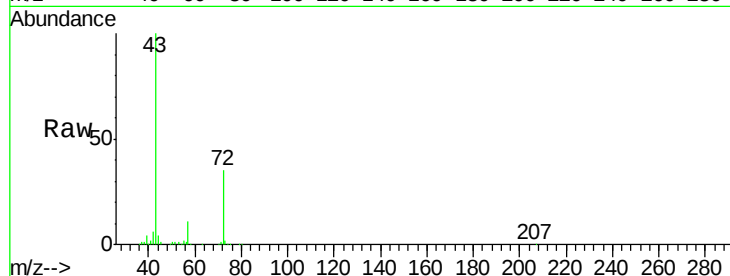
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 2-Butanone
 Concen: 0.708 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.00 min
 Lab File: VL035479.D
 Acq: 20 Aug 2020 17:48

Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-3DL

Tot Ion: 43 Resp: 119133
 Ion Ratio Lower Upper
 43 100
 72 37.1 17.6 26.4#

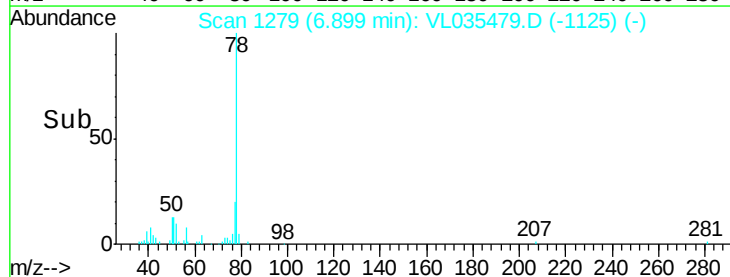
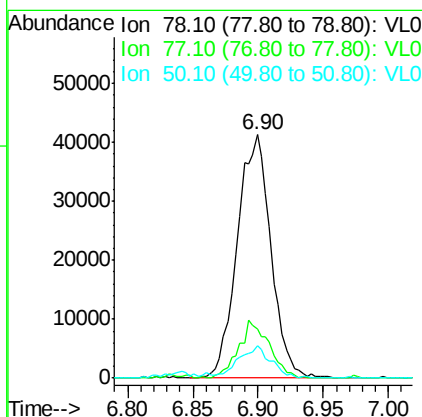
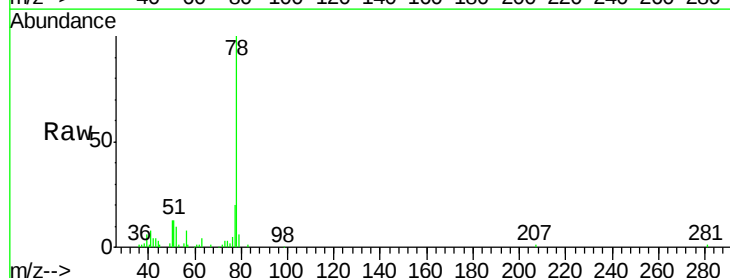
Manual Integrations
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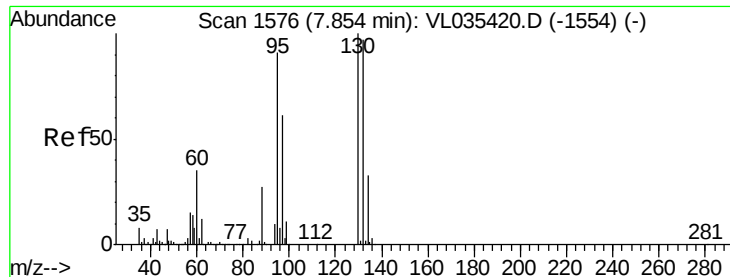
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#36
 Benzene
 Concen: 0.200 ppbv m
 RT: 6.90 min Scan# 1279
 Delta R.T. -0.00 min
 Lab File: VL035479.D
 Acq: 20 Aug 2020 17:48

Tgt Ion: 78 Resp: 73871
 Ion Ratio Lower Upper
 78 100
 77 20.3 19.6 29.4
 50 13.2 16.3 24.5#





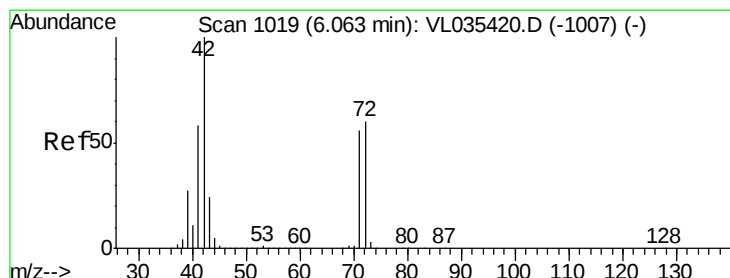
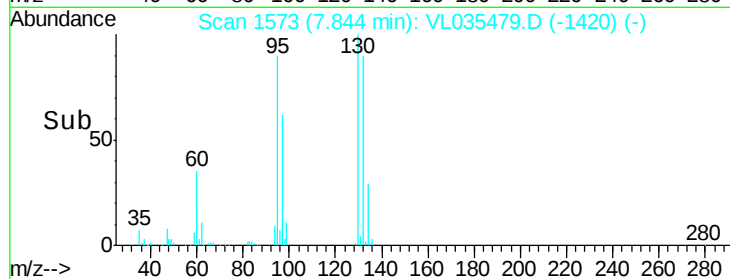
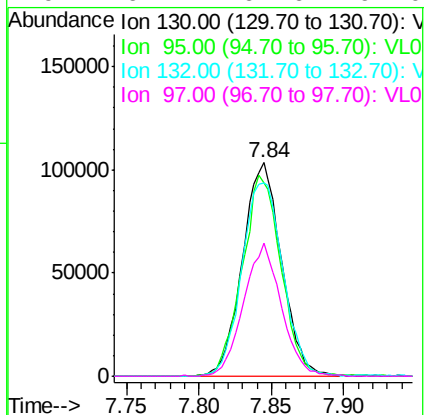
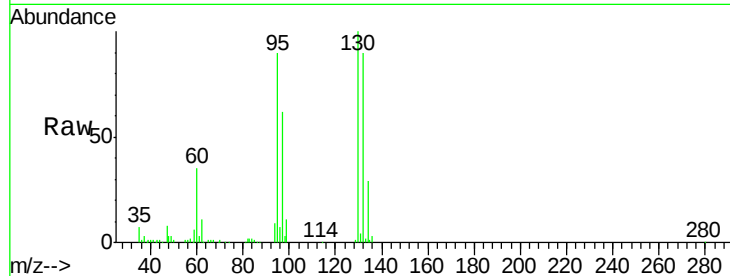
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 Trichloroethene
 Concen: 0.943 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. -0.01 min
 Lab File: VL035479.D
 Acq: 20 Aug 2020 17:48

Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-3DL

Tot Ion	Ratio	Resp	Lower	Upper
130	100			
95	90.4	95.8	143.8#	
132	90.3	74.3	111.5	
97	62.2	62.6	94.0#	

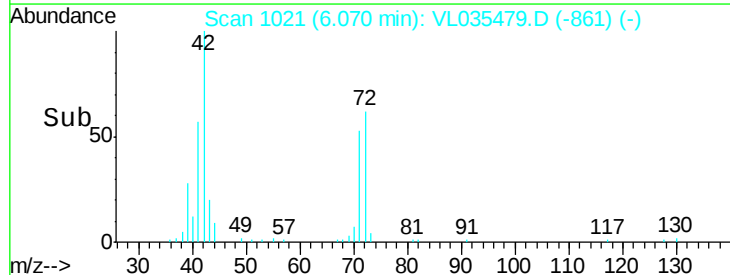
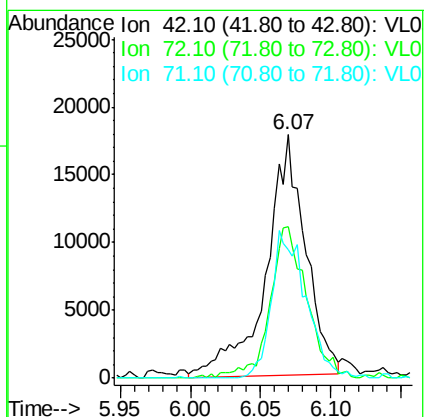
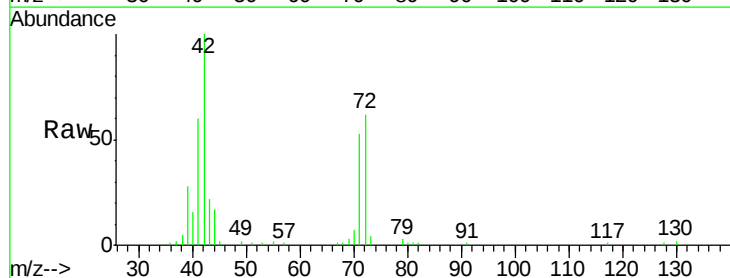
Manual Integrations
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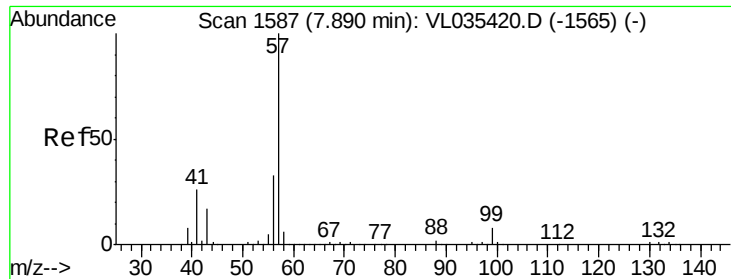
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#41
 Tetrahydrofuran
 Concen: 0.373 ppbv
 RT: 6.07 min Scan# 1021
 Delta R.T. 0.01 min
 Lab File: VL035479.D
 Acq: 20 Aug 2020 17:48

Tgt Ion	Ratio	Resp	Lower	Upper
42	100			
72	59.6	29.4	44.2#	
71	53.6	28.9	43.3#	





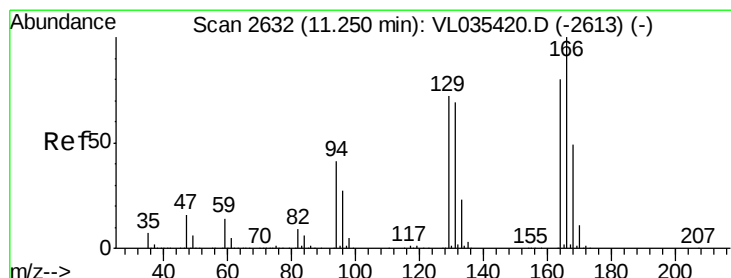
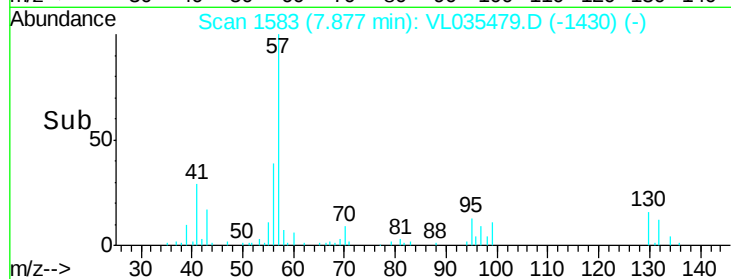
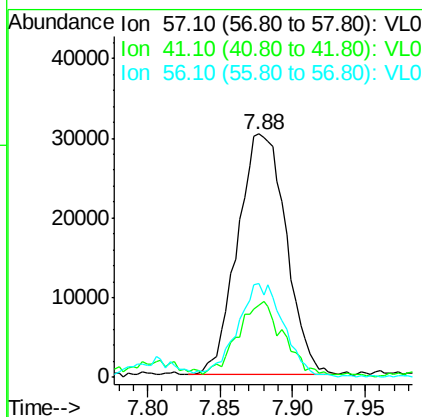
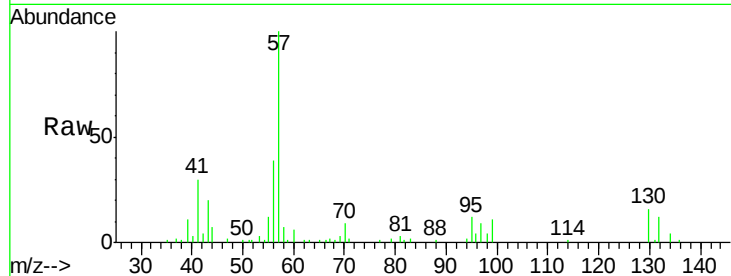
#44
 2,2,4-Trimethylpentane
 Concen: 0.146 ppbv
 RT: 7.88 min Scan# 1583
 Delta R.T. -0.01 min
 Lab File: VL035479.D
 Acq: 20 Aug 2020 17:48

Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-3DL

Tot Ion	57	Resp	70493
Ion Ratio	100	Lower	Upper
57	100		
41	30.4	27.2	40.8
56	37.3	25.4	38.0

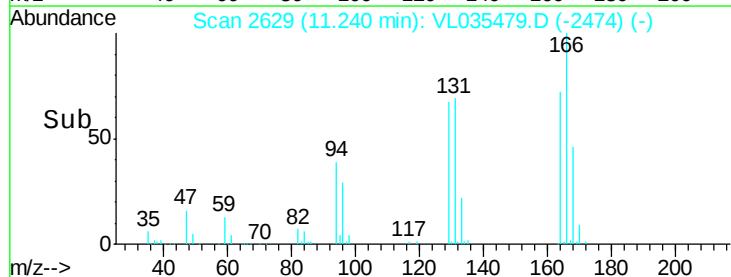
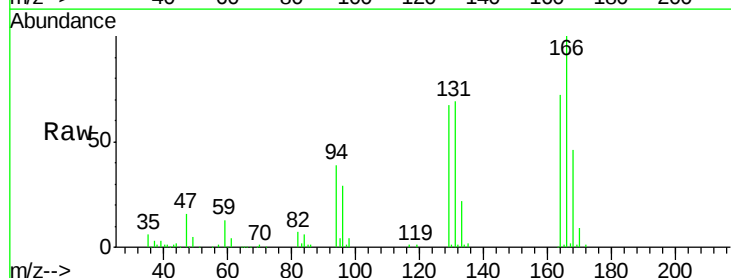
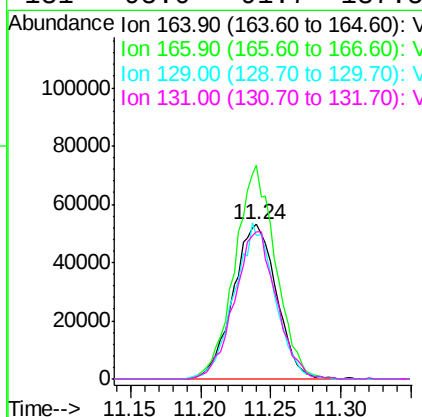
Manual Integrations
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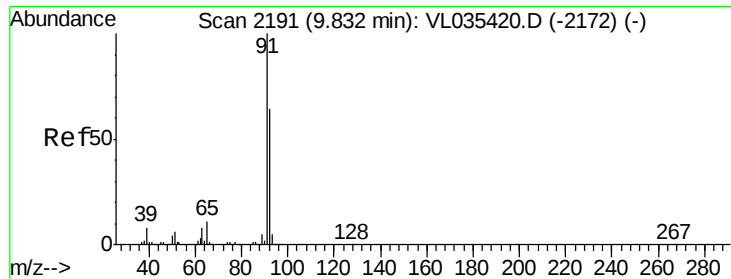
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#52
 Tetrachloroethene
 Concen: 0.505 ppbv
 RT: 11.24 min Scan# 2629
 Delta R.T. -0.00 min
 Lab File: VL035479.D
 Acq: 20 Aug 2020 17:48

Tgt Ion	164	Resp	113911
Ion Ratio	100	Lower	Upper
164	100		
166	138.4	103.4	155.0
129	92.6	90.2	135.4
131	95.0	91.7	137.5





#53

Toluene

Concen: 1.178 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.00 min

Lab File: VL035479.D

Acq: 20 Aug 2020 17:48

Instrument :

MSVOA_L

ClientSampleId :

SSMP-3DL

Tot Ion: 91 Resp: 560921

Ion Ratio Lower Upper

91 100

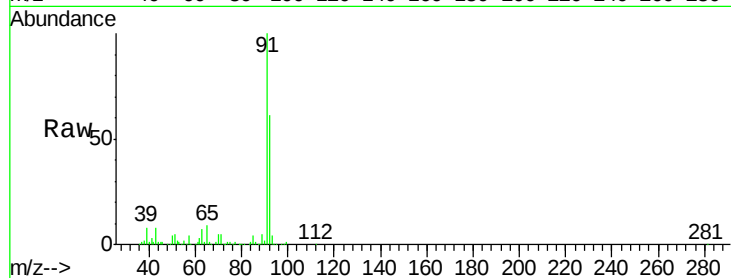
92 59.8 49.1 73.7

Manual Integrations

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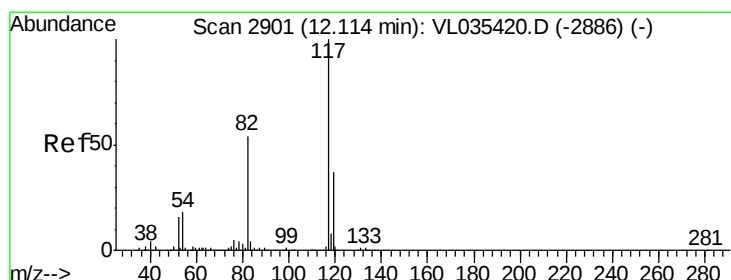
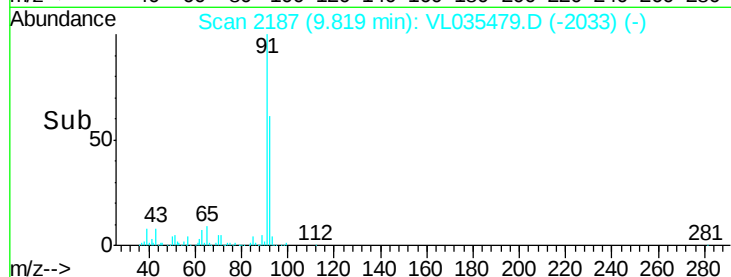
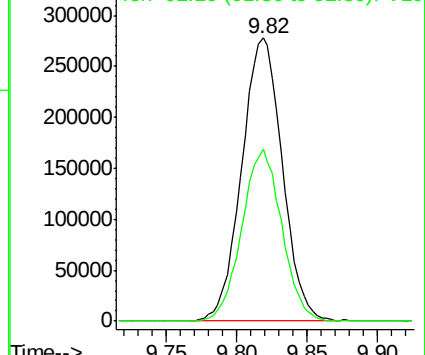
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. -0.01 min

Lab File: VL035479.D

Acq: 20 Aug 2020 17:48

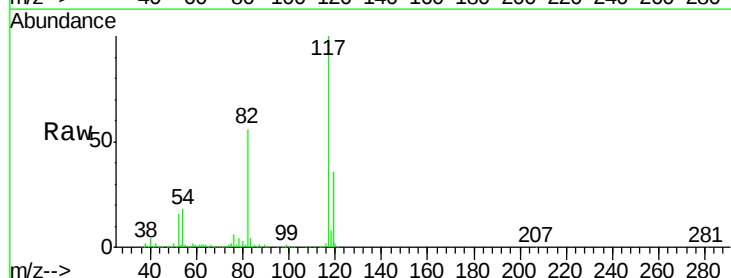
Tgt Ion: 117 Resp: 4925674

Ion Ratio Lower Upper

117 100

82 53.6 57.4 86.0#

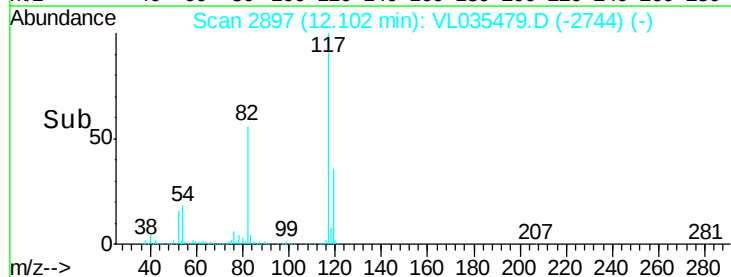
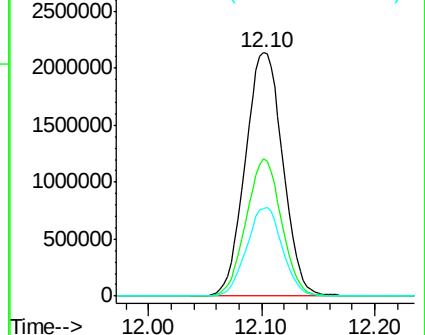
119 35.0 28.4 42.6

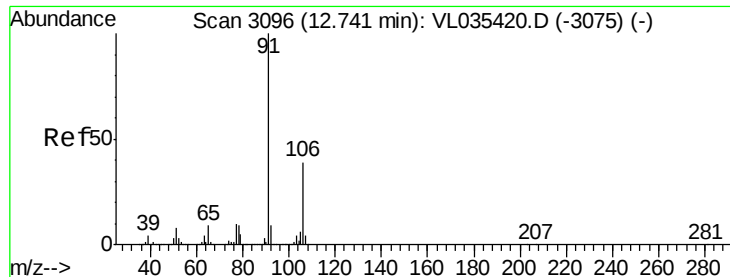


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.194 ppbv

RT: 12.72 min Scan# 3090

Delta R.T. -0.01 min

Lab File: VL035479.D

Acq: 20 Aug 2020 17:48

Instrument :

MSVOA_L

ClientSampleId :

SSMP-3DL

Tot Ion: 91 Resp: 115164

Ion Ratio Lower Upper

91 100

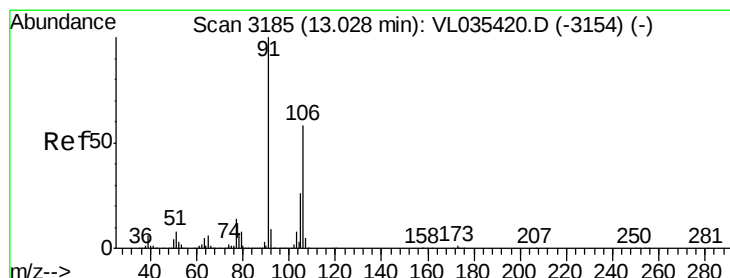
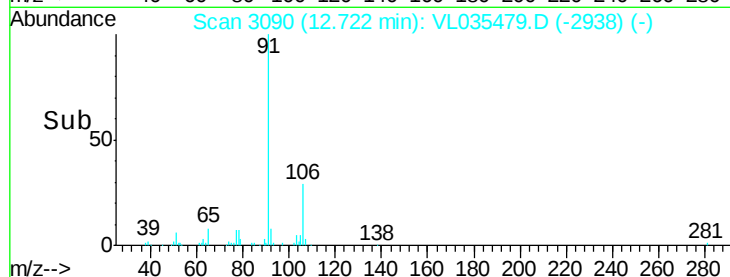
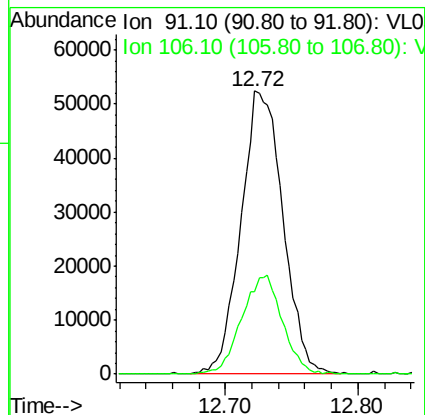
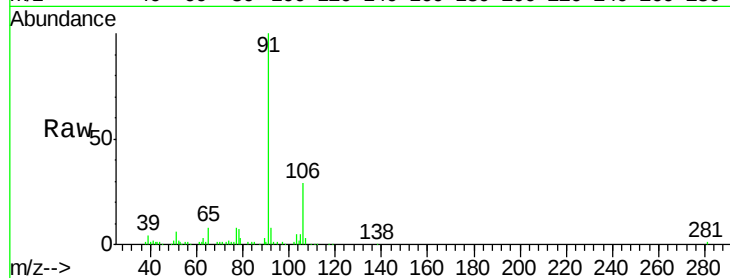
106 29.1 24.1 36.1

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#59

m/p-Xylene

Concen: 0.684 ppbv

RT: 12.99 min Scan# 3172

Delta R.T. -0.04 min

Lab File: VL035479.D

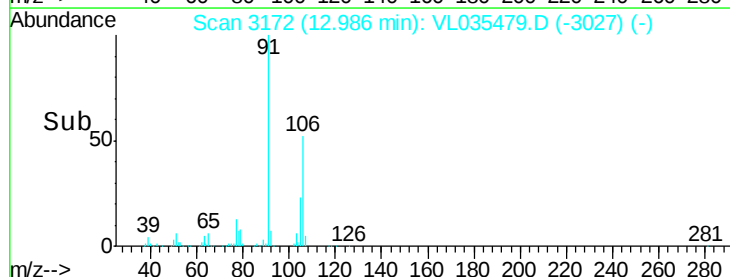
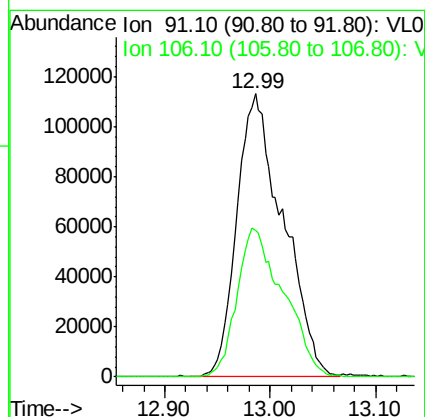
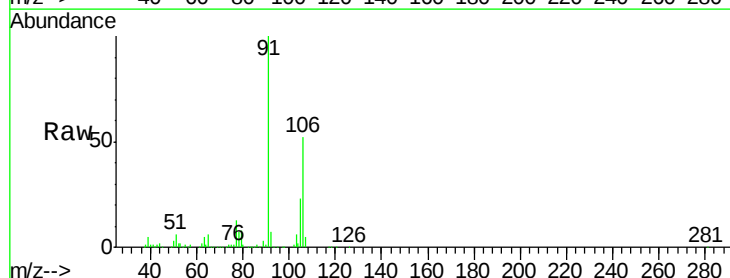
Acq: 20 Aug 2020 17:48

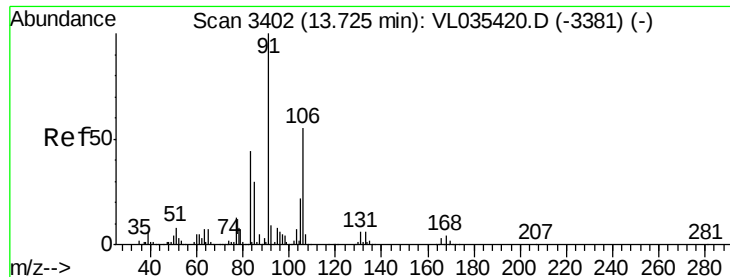
Tgt Ion: 91 Resp: 344036

Ion Ratio Lower Upper

91 100

106 52.9 34.0 51.0#





#60

o-Xylene

Concen: 0.267 ppbv

RT: 13.71 min Scan# 3397

Delta R.T. -0.01 min

Lab File: VL035479.D

Acq: 20 Aug 2020 17:48

Instrument :

MSVOA_L

ClientSampleId :

SSMP-3DL

Tot Ion: 91 Resp: 130306

Ion Ratio Lower Upper

91 100

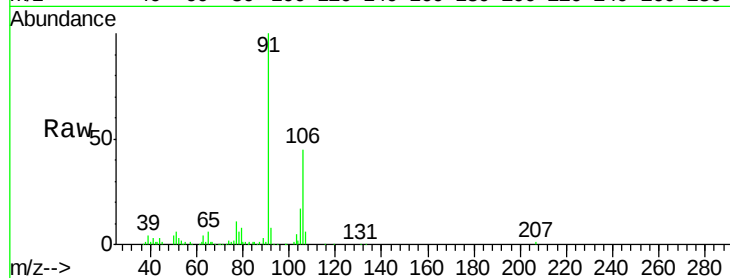
106 49.5 21.8 65.3

Manual Integrations

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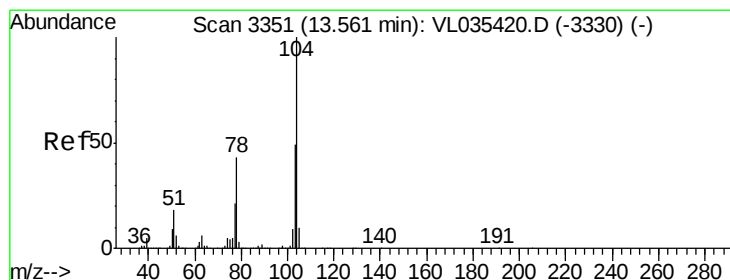
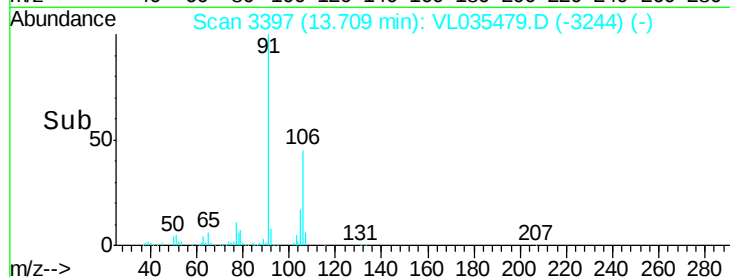
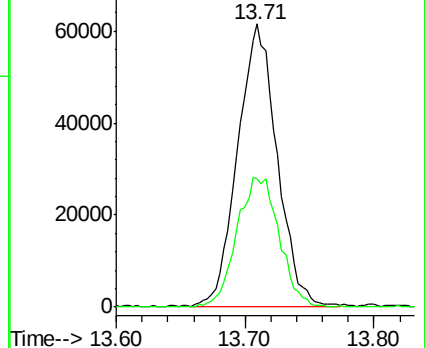
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): VL0



#61

Styrene

Concen: 0.057 ppbv m

RT: 13.55 min Scan# 3347

Delta R.T. -0.00 min

Lab File: VL035479.D

Acq: 20 Aug 2020 17:48

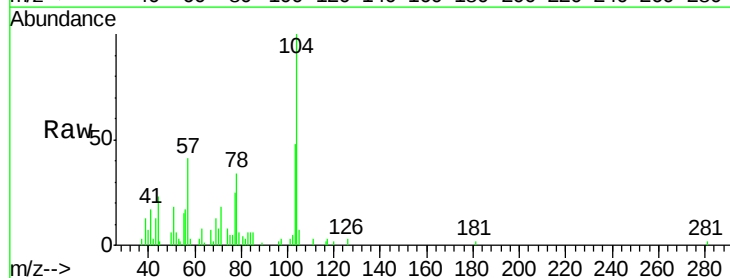
Tgt Ion: 104 Resp: 22662

Ion Ratio Lower Upper

104 100

78 0.0 45.4 68.2#

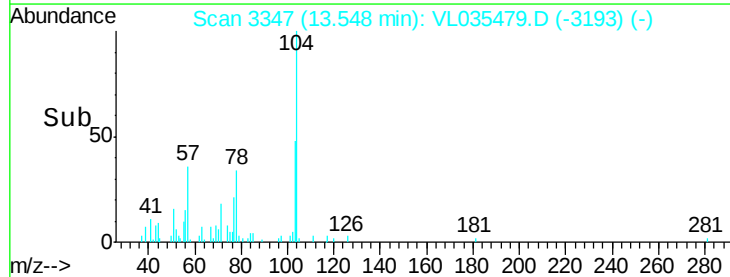
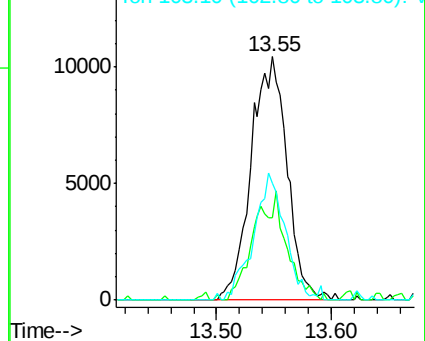
103 0.0 37.8 56.8#

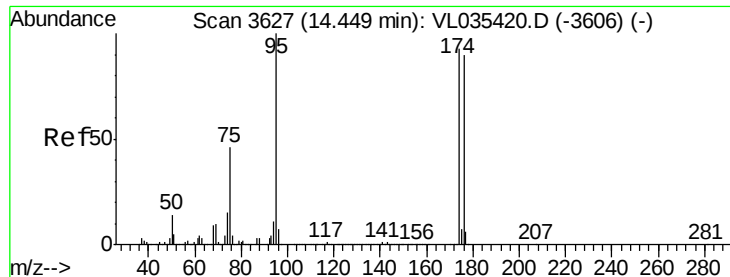


Abundance Ion 104.10 (103.80 to 104.80): VL0

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): VL0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.269 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VL035479.D

Acq: 20 Aug 2020 17:48

Instrument :

MSVOA_L

ClientSampleId :

SSMP-3DL

Tot Ion: 95 Resp: 3541136

Ion Ratio Lower Upper

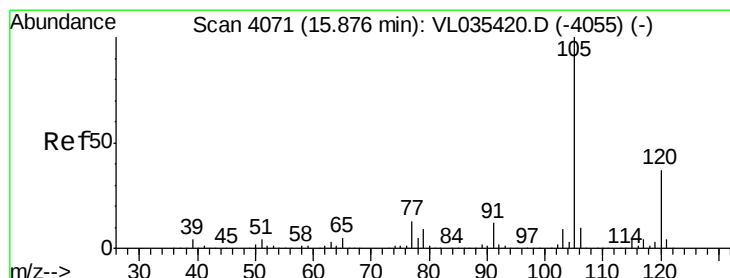
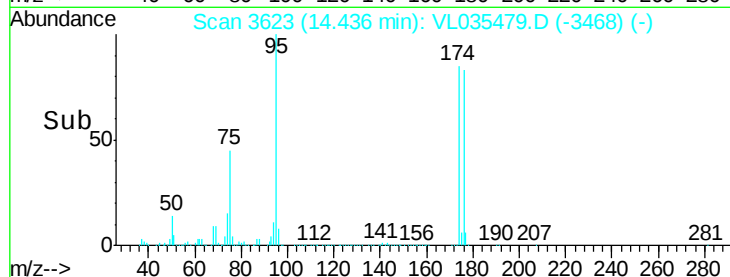
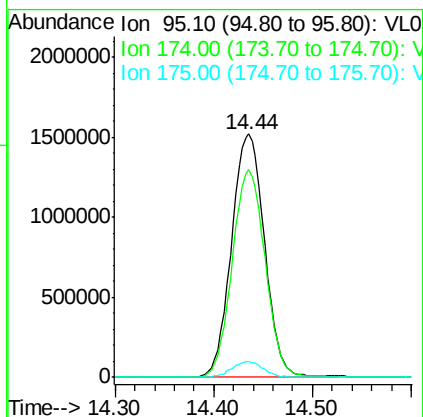
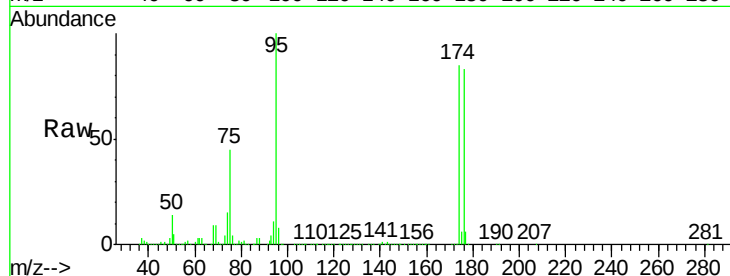
95 100

174 86.0 44.0 66.0#

175 6.2 3.2 4.8#

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#72

4-Ethyltoluene

Concen: 0.130 ppbv

RT: 15.86 min Scan# 4067

Delta R.T. -0.00 min

Lab File: VL035479.D

Acq: 20 Aug 2020 17:48

Tgt Ion: 105 Resp: 83084

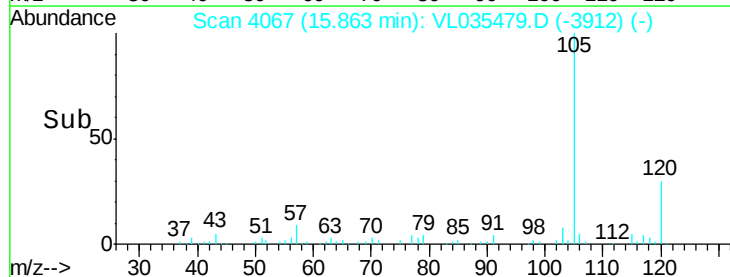
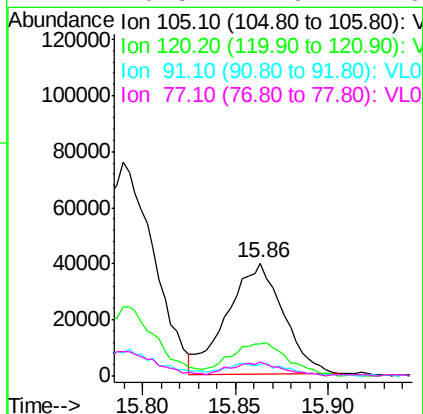
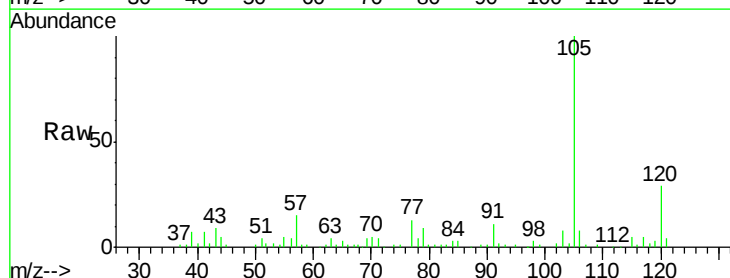
Ion Ratio Lower Upper

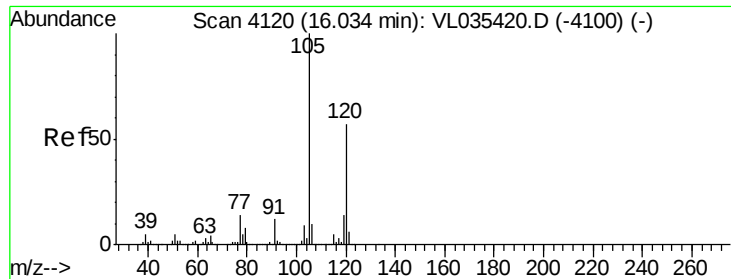
105 100

120 31.7 22.7 34.1

91 13.5 10.8 16.2

77 10.5 11.9 17.9#





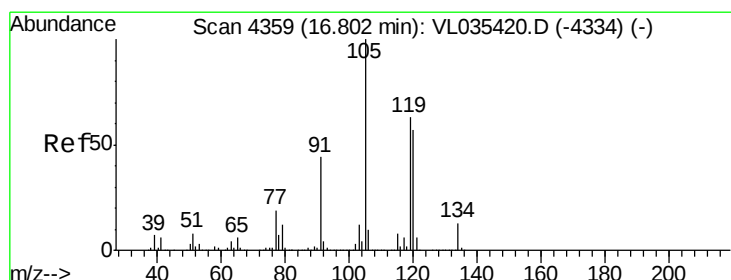
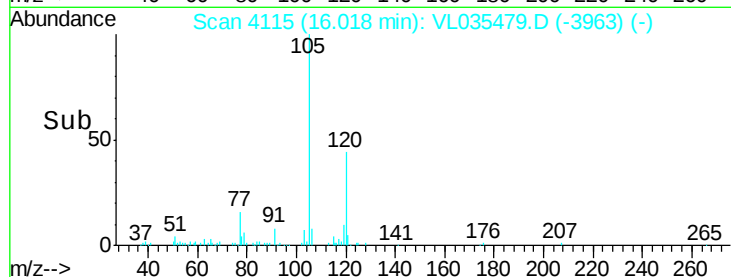
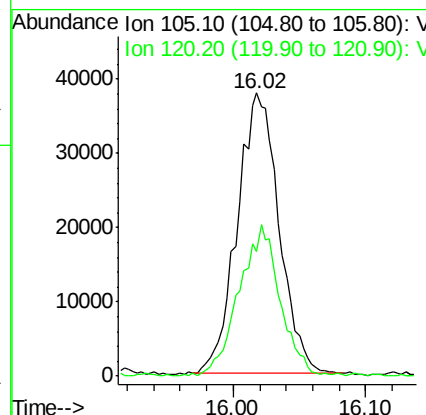
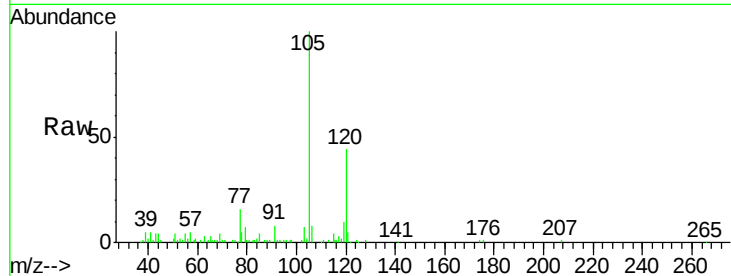
#73
 1,3,5-Trimethylbenzene
 Concen: 0.138 ppbv
 RT: 16.02 min Scan# 4115
 Delta R.T. -0.01 min
 Lab File: VL035479.D
 Acq: 20 Aug 2020 17:48

Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-3DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	44.2	35.6	53.4

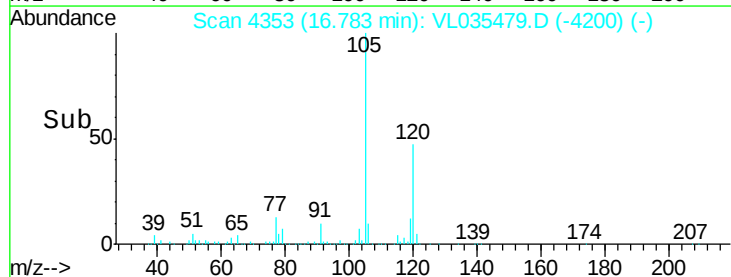
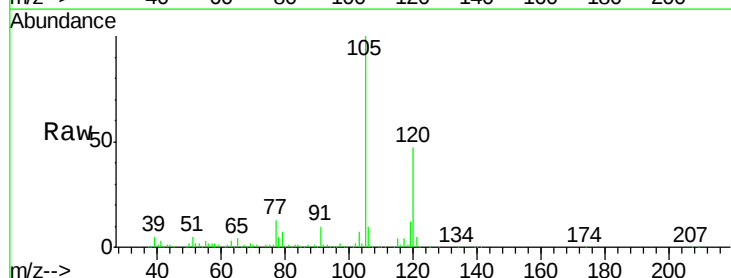
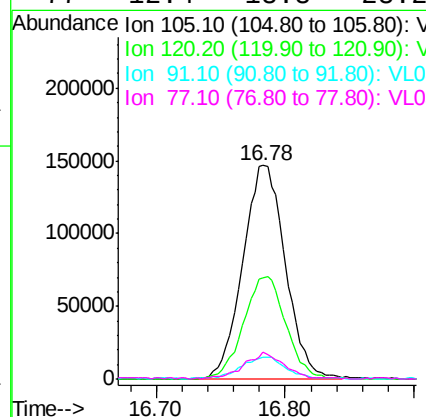
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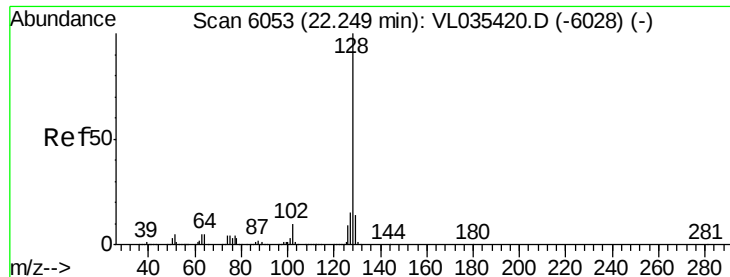
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.518 ppbv
 RT: 16.78 min Scan# 4353
 Delta R.T. -0.01 min
 Lab File: VL035479.D
 Acq: 20 Aug 2020 17:48

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.3	37.8	56.8
91	9.6	40.0	60.0#
77	12.4	18.8	28.2#





#79

Naphthalene

Concen: 0.126 ppbv

RT: 22.23 min Scan# 6048

Delta R.T. -0.01 min

Lab File: VL035479.D

Acq: 20 Aug 2020 17:48

Instrument :

MSVOA_L

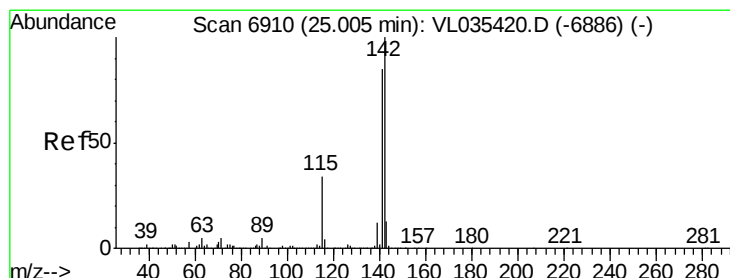
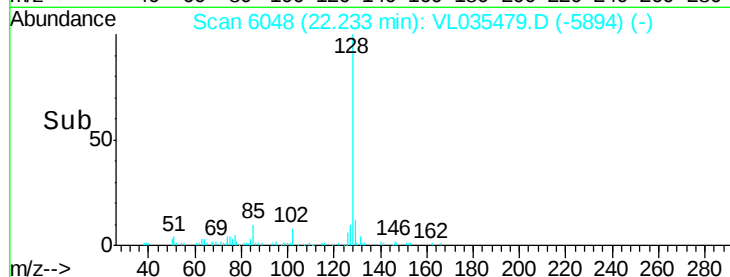
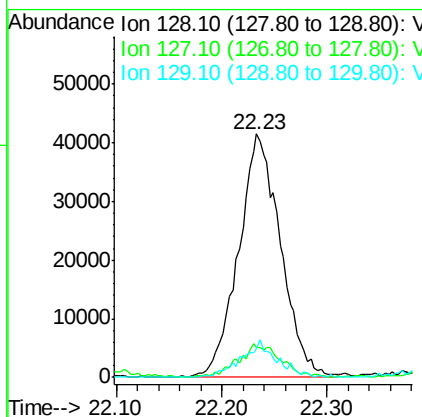
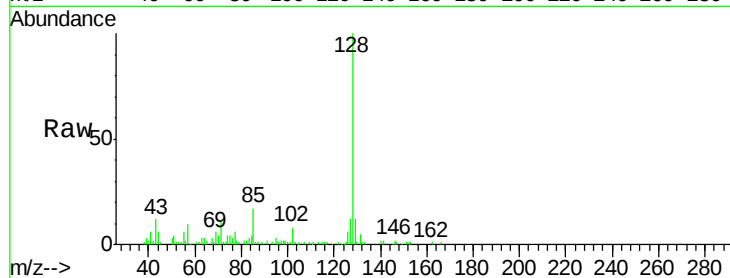
ClientSampleId :

SSMP-3DL

Tot Ion:	128	Resp:	114914
Ion Ratio	Lower	Upper	
128	100		
127	12.3	11.4	17.0
129	11.9	9.5	14.3

Manual Integrations
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#80

Naphthalene, 2-methyl-

Concen: 0.090 ppbv

RT: 25.00 min Scan# 6910

Delta R.T. 0.01 min

Lab File: VL035479.D

Acq: 20 Aug 2020 17:48

Tgt Ion:	142	Resp:	33977
Ion Ratio	Lower	Upper	
142	100		
141	89.0	67.1	100.7
115	39.9	36.1	54.1

