

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081820\
 Data File : VL035456.D
 Acq On : 19 Aug 2020 00:21
 Operator : SY/AP
 Sample : L3725-01DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 19 02:46:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 17 19:28:30 2020
 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	1105032	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	5144914	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5083251	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	3683349	10.35	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.50%

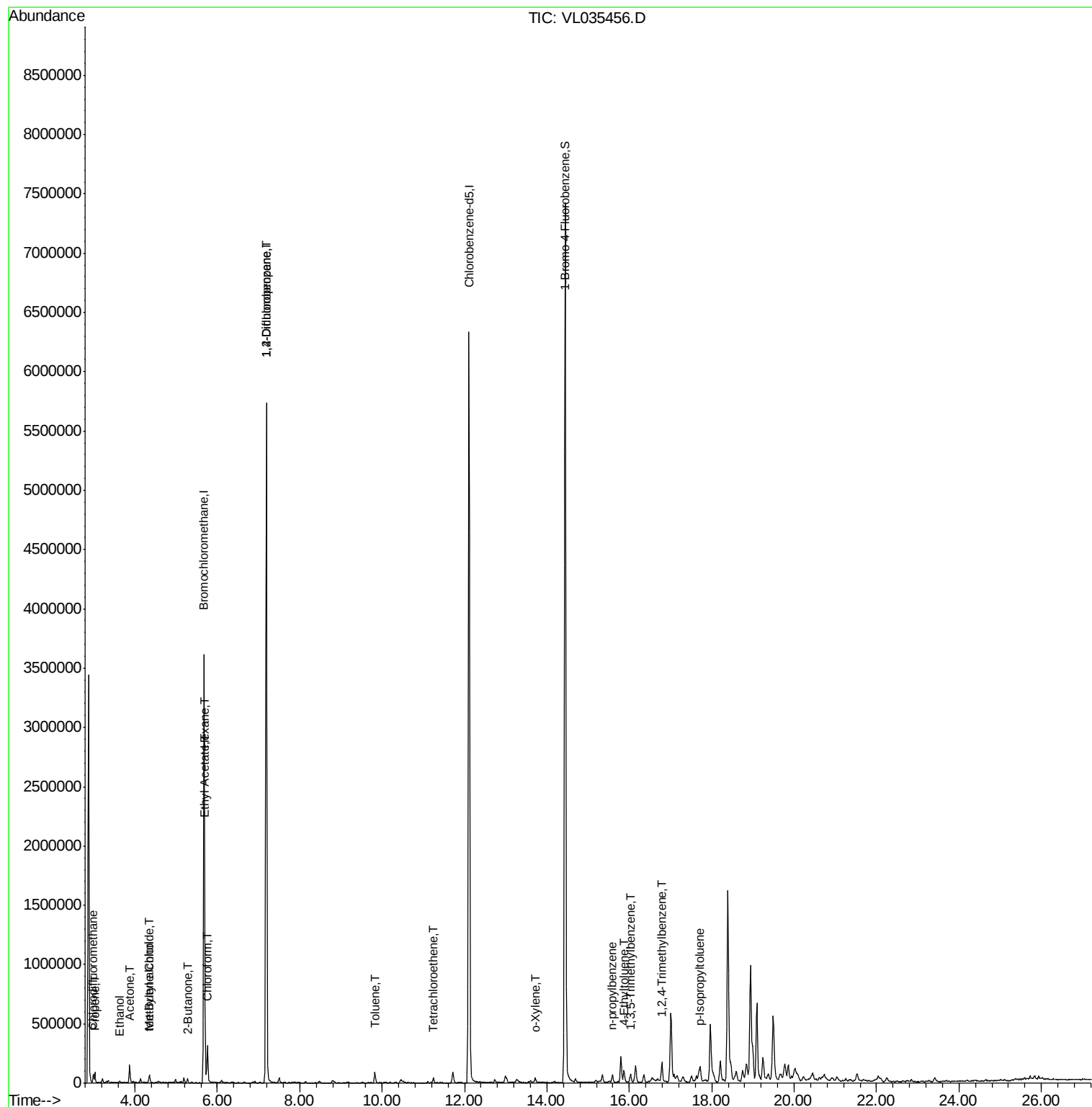
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	60056	0.433	ppbv	93
9) Propene	3.01	41	3643	0.065	ppbv #	8
13) Ethanol	3.62	45	6400	0.314	ppbv #	19
15) Acetone	3.87	43	126009	0.991	ppbv #	70
17) tert-Butyl alcohol	4.33	59	6180	0.038	ppbv #	63
20) Methylene Chloride	4.35	84	27064	0.264	ppbv #	62
25) Ethyl Acetate	5.70	43	7918	0.032	ppbv #	85
26) Hexane	5.70	57	14949	0.107	ppbv #	32
29) Chloroform	5.76	83	213110	0.759	ppbv	99
34) 2-Butanone	5.28	43	31106	0.181	ppbv #	65
39) 1,2-Dichloropropane	7.19	63	884243	7.105	ppbv #	23
52) Tetrachloroethene	11.25	164	13265	0.058	ppbv #	73
53) Toluene	9.82	91	74708	0.154	ppbv	99
60) o-Xylene	13.72	91	32051	0.064	ppbv	86
64) n-propylbenzene	15.59	120	14805	0.058	ppbv	100
69) p-Isopropyltoluene	17.69	119	56728	0.061	ppbv	93
72) 4-Ethyltoluene	15.86	105	84058	0.127	ppbv #	92
73) 1,3,5-Trimethylbenzene	16.02	105	32293	0.052	ppbv	98
74) 1,2,4-Trimethylbenzene	16.79	105	137415	0.205	ppbv #	71

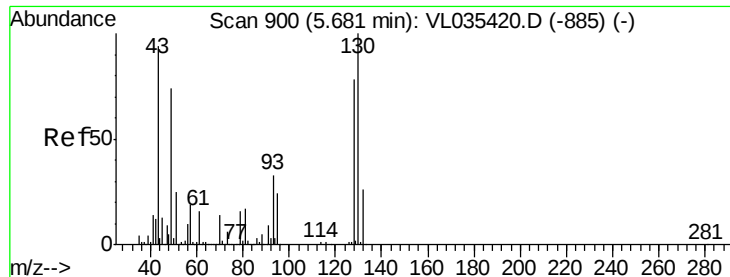
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Aug 17 19:28:30 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.00 min

Lab File: VL035456.D

Acq: 19 Aug 2020 00:21

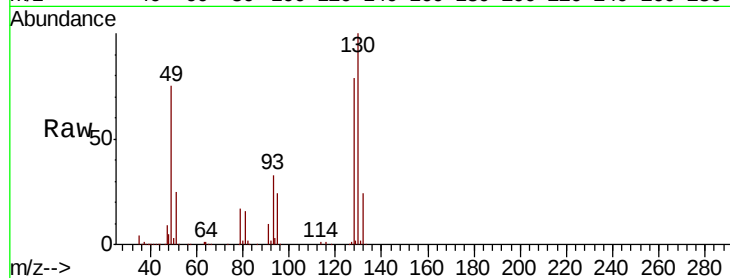
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 49 Resp: 1105032

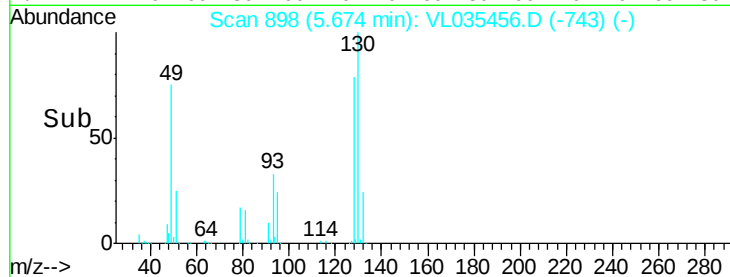
Ion	Ratio	Lower	Upper
49	100		
128	106.1	20.9	62.7#
130	136.0	26.7	80.1#



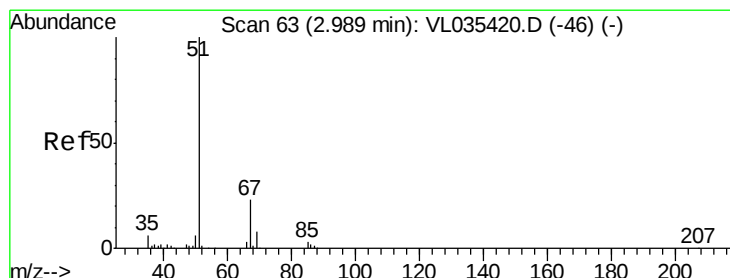
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



Time-->



#3

Chlorodifluoromethane

Concen: 0.433 ppbv

RT: 2.99 min Scan# 63

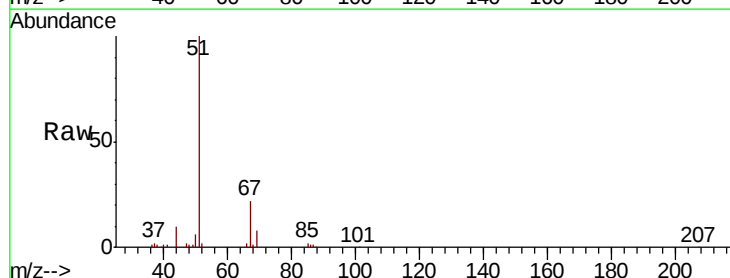
Delta R.T. 0.01 min

Lab File: VL035456.D

Acq: 19 Aug 2020 00:21

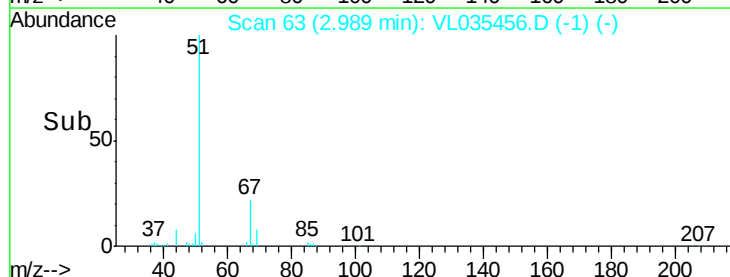
Tgt Ion: 51 Resp: 60056

Ion	Ratio	Lower	Upper
51	100		
67	21.9	15.0	22.6

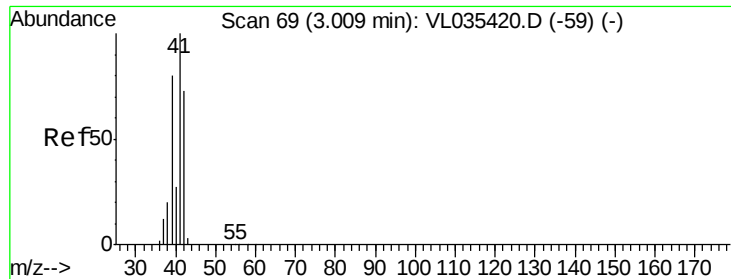


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#9

Propene

Concen: 0.065 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL035456.D

Acq: 19 Aug 2020 00:21

Instrument :

MSVOA_L

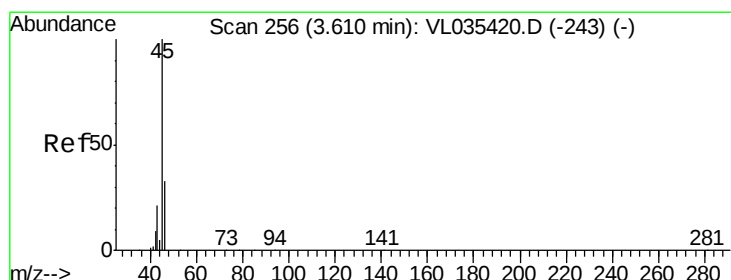
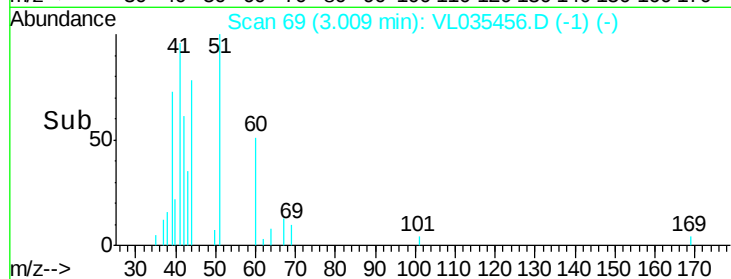
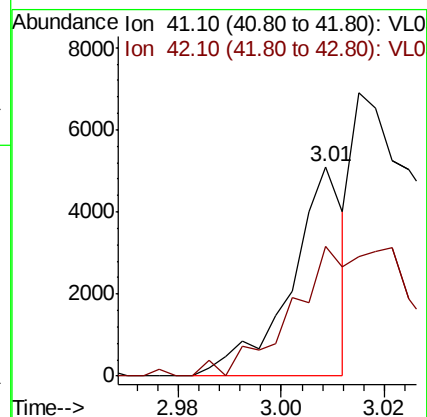
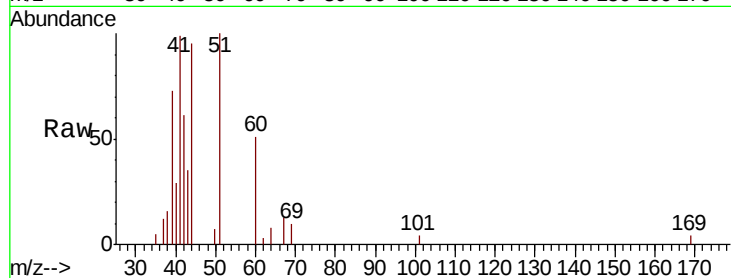
ClientSampleId :

Tot Ion: 41 Resp: 3643

Ion Ratio Lower Upper

41 100

42 144.9 55.5 83.3#



#13

Ethanol

Concen: 0.314 ppbv

RT: 3.62 min Scan# 260

Delta R.T. 0.02 min

Lab File: VL035456.D

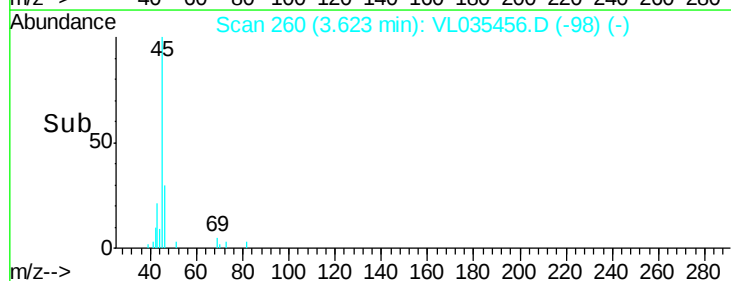
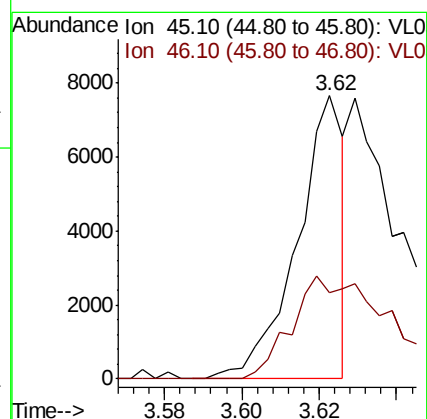
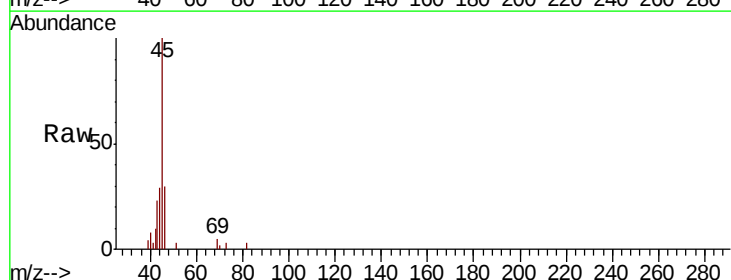
Acq: 19 Aug 2020 00:21

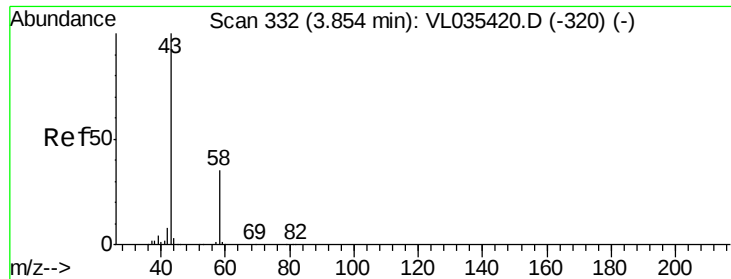
Tgt Ion: 45 Resp: 6400

Ion Ratio Lower Upper

45 100

46 82.4 14.2 56.6#

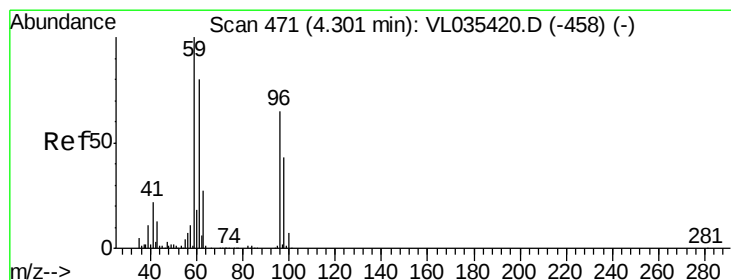
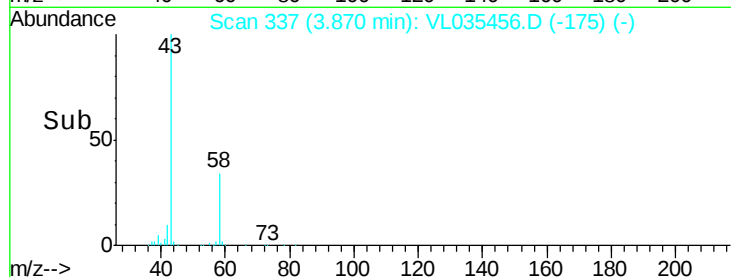
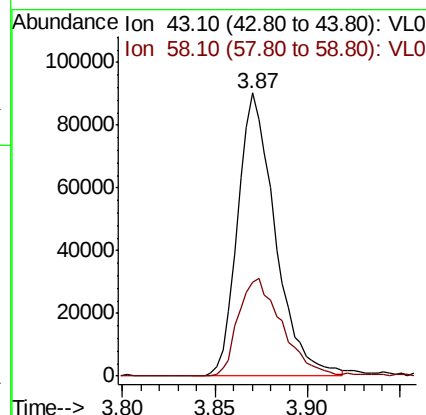
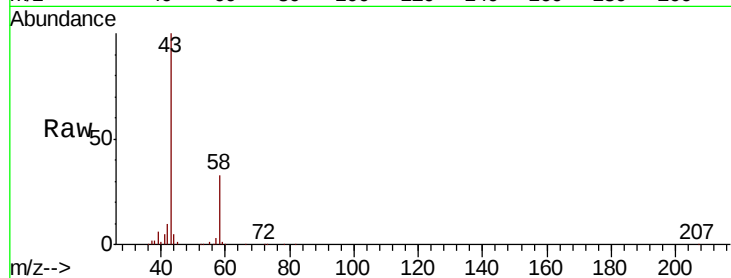




#15
Acetone
Concen: 0.991 ppbv
RT: 3.87 min Scan# 337
Delta R.T. 0.02 min
Lab File: VL035456.D
Acq: 19 Aug 2020 00:21

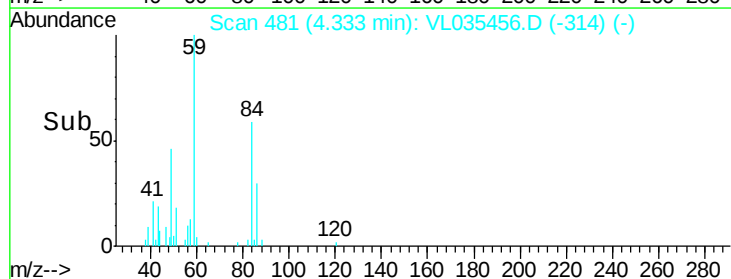
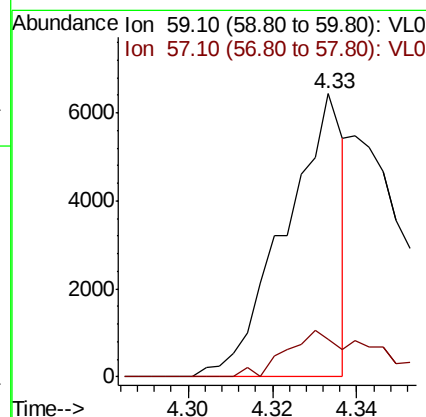
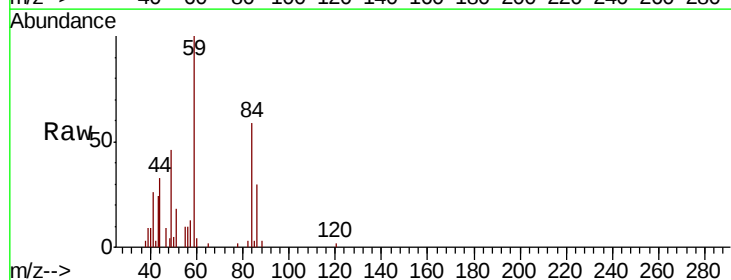
Instrument :
MSVOA_L
ClientSampled :

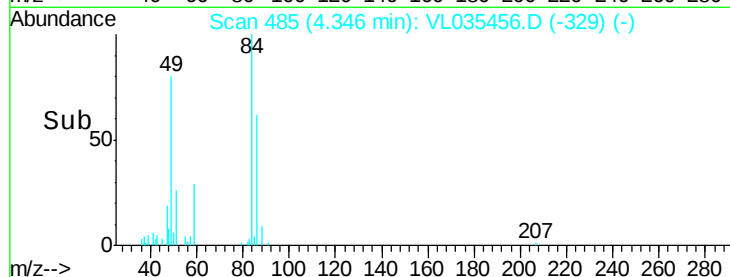
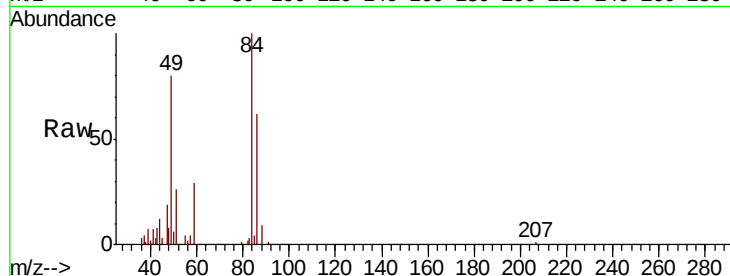
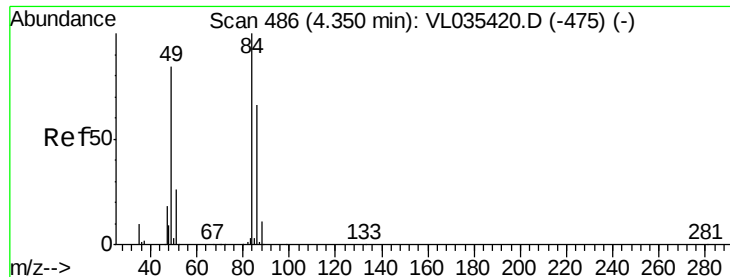
Tot Ion: 43 Resp: 126009
Ion Ratio Lower Upper
43 100
58 41.4 21.0 31.6#



#17
tert-Butyl alcohol
Concen: 0.038 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.04 min
Lab File: VL035456.D
Acq: 19 Aug 2020 00:21

Tgt Ion: 59 Resp: 6180
Ion Ratio Lower Upper
59 100
57 25.1 8.9 13.3#

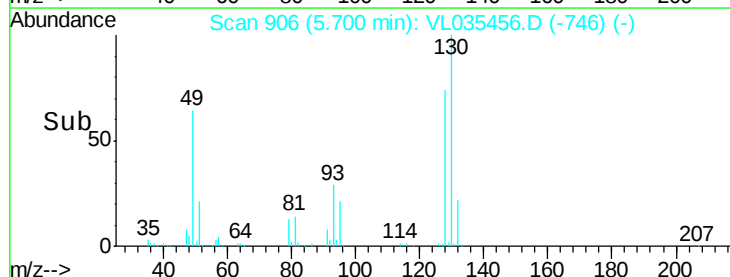
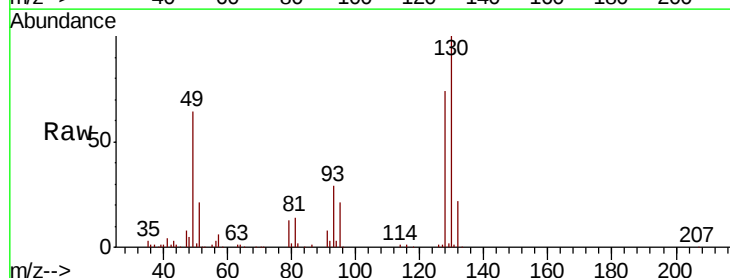
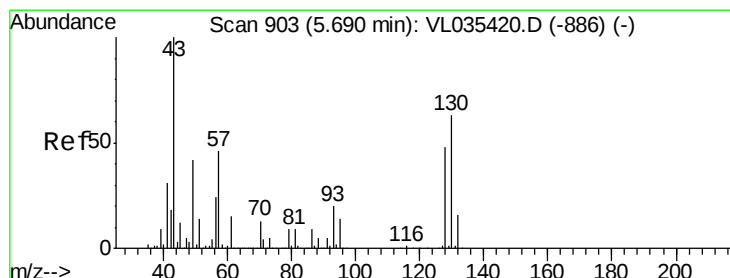
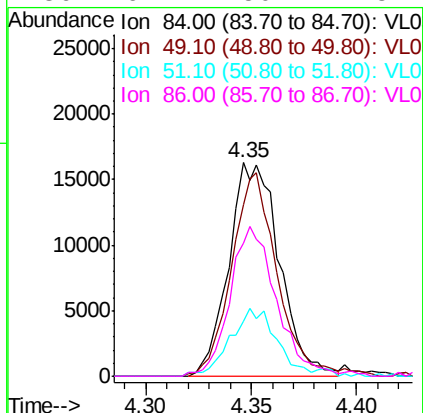




#20
Methvlene Chloride
Concen: 0.264 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.00 min
Lab File: VL035456.D
Acq: 19 Aug 2020 00:21

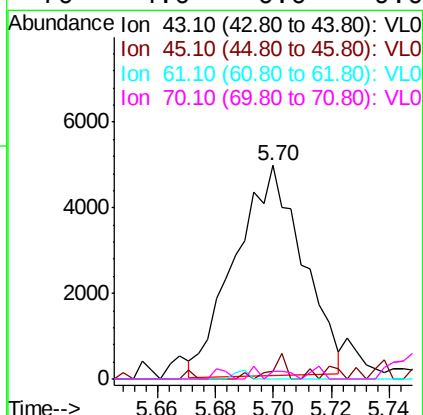
Instrument :
MSVOA_L
ClientSampled :

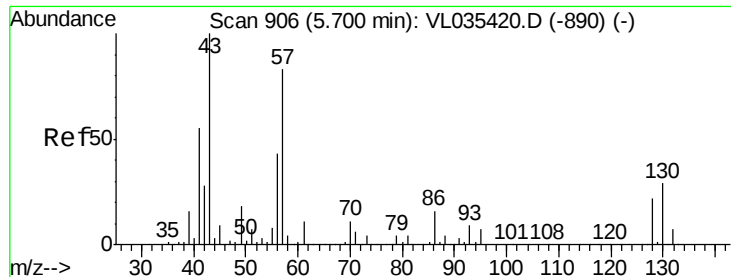
Tot Ion:	84	Resp:	27064
Ion	Ratio	Lower	Upper
84	100		
49	78.9	118.6	177.8#
51	25.9	36.4	54.6#
86	61.2	50.2	75.4



#25
Ethyl Acetate
Concen: 0.032 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.02 min
Lab File: VL035456.D
Acq: 19 Aug 2020 00:21

Tgt Ion:	43	Resp:	7918
Ion	Ratio	Lower	Upper
43	100		
45	6.8	8.3	12.5#
61	0.0	7.6	11.4#
70	4.0	6.0	9.0#





#26

Hexane

Concen: 0.107 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.00 min

Lab File: VL035456.D

Acq: 19 Aug 2020 00:21

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 14949

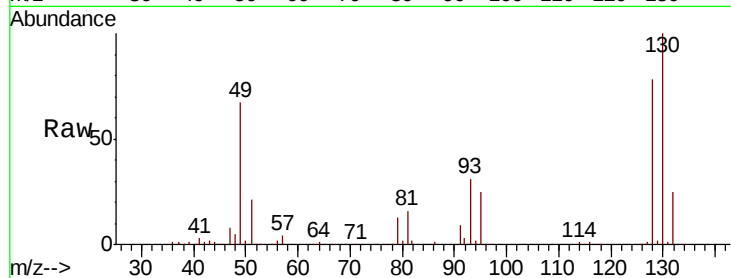
Ion Ratio Lower Upper

57 100

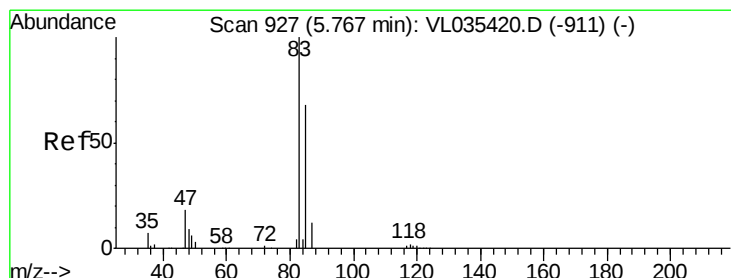
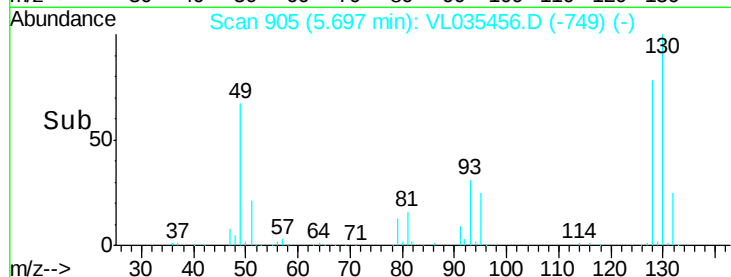
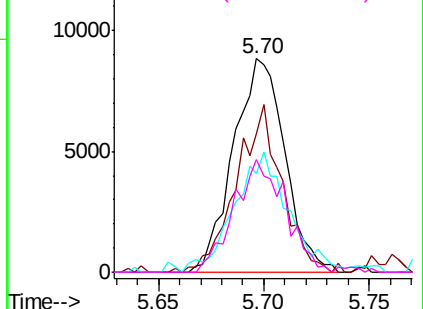
41 69.4 75.5 113.3#

43 61.6 181.7 272.5#

56 53.8 42.4 63.6



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



#29

Chloroform

Concen: 0.759 ppbv

RT: 5.76 min Scan# 924

Delta R.T. -0.00 min

Lab File: VL035456.D

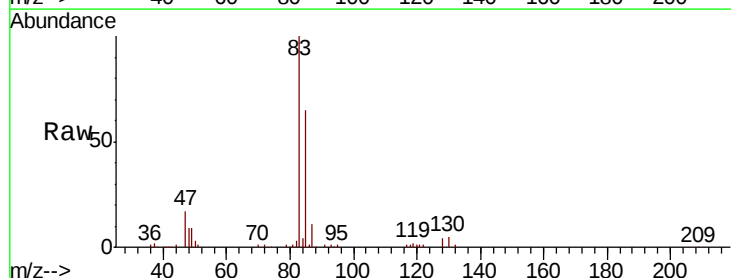
Acq: 19 Aug 2020 00:21

Tgt Ion: 83 Resp: 213110

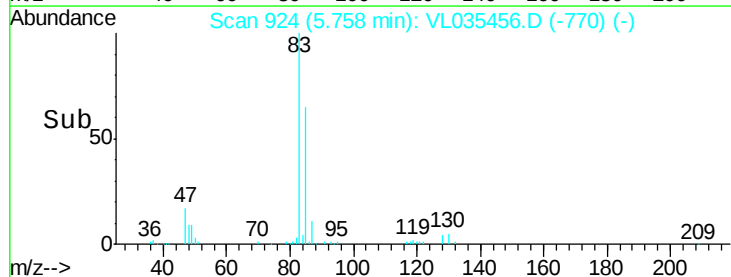
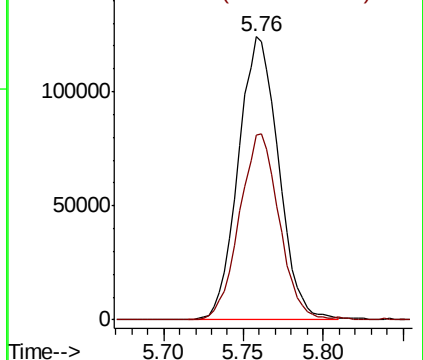
Ion Ratio Lower Upper

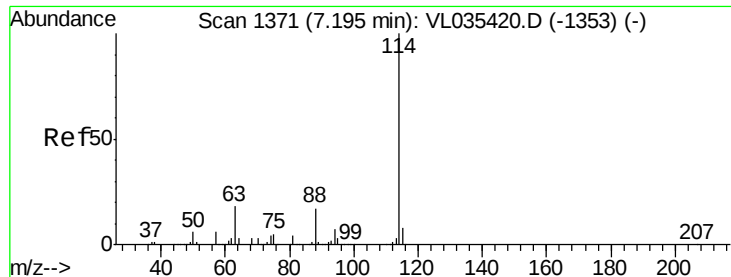
83 100

85 65.3 52.7 79.1



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0

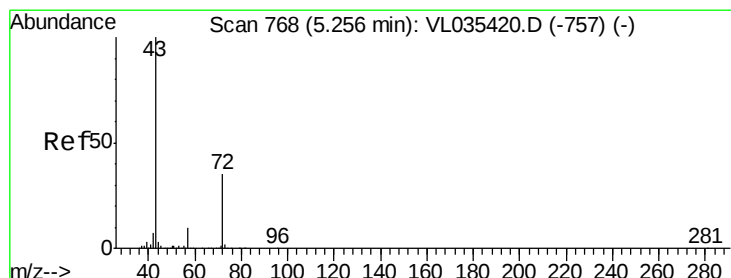
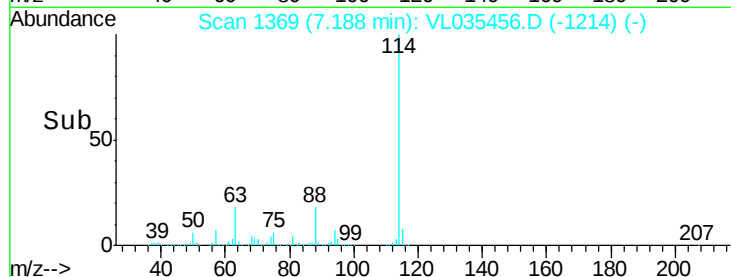
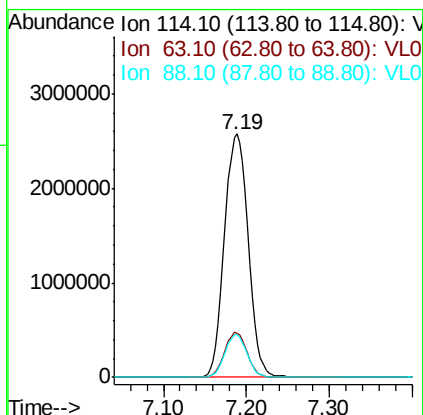
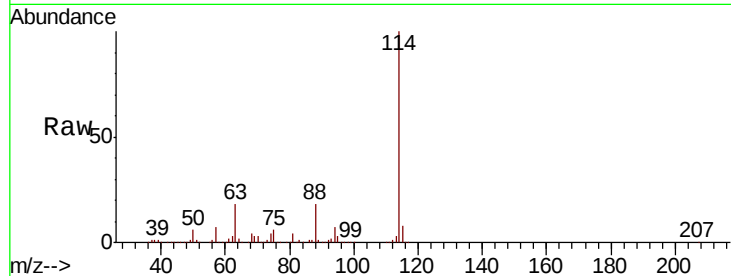




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T. -0.00 min
 Lab File: VL035456.D
 Acq: 19 Aug 2020 00:21

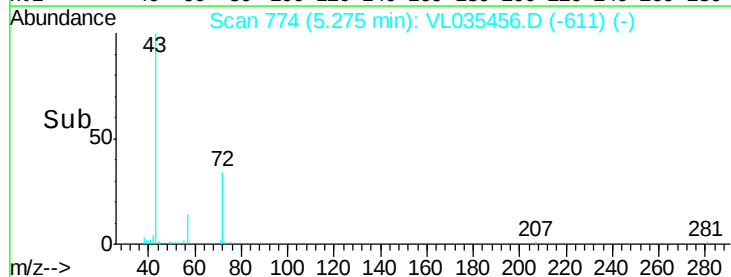
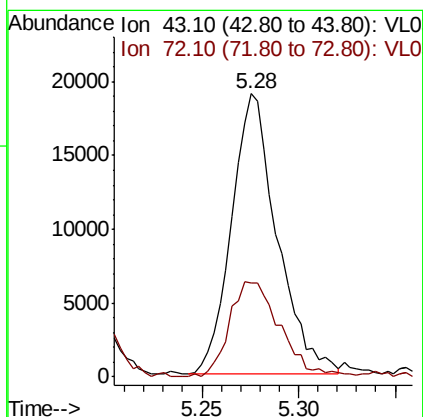
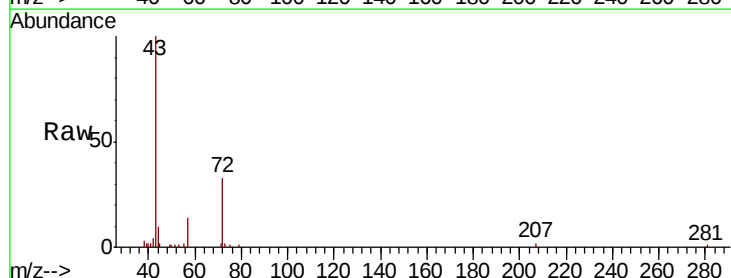
Instrument :
 MSVOA_L
 ClientSampleId :

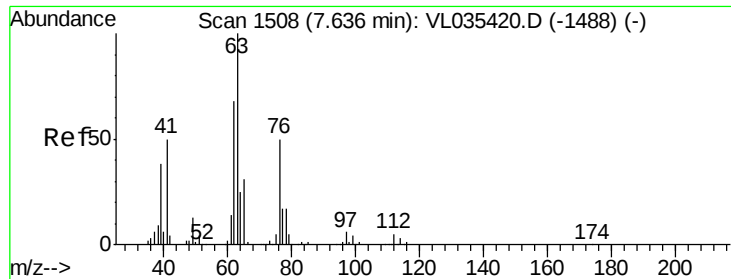
Tot Ion:114 Resp: 5144914
 Ion Ratio Lower Upper
 114 100
 63 17.3 23.1 34.7#
 88 16.4 15.9 23.9



#34
 2-Butanone
 Concen: 0.181 ppbv
 RT: 5.28 min Scan# 774
 Delta R.T. 0.03 min
 Lab File: VL035456.D
 Acq: 19 Aug 2020 00:21

Tgt Ion: 43 Resp: 31106
 Ion Ratio Lower Upper
 43 100
 72 38.6 17.6 26.4#

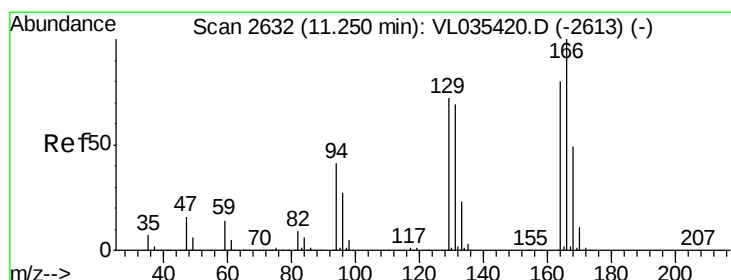
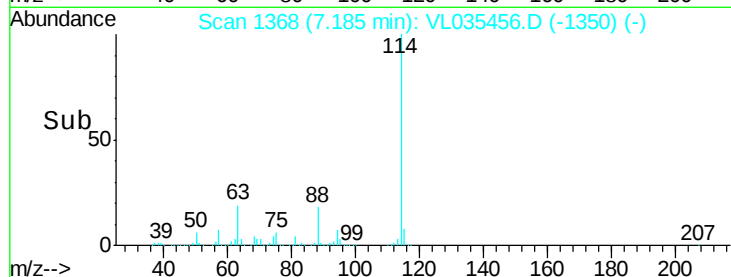
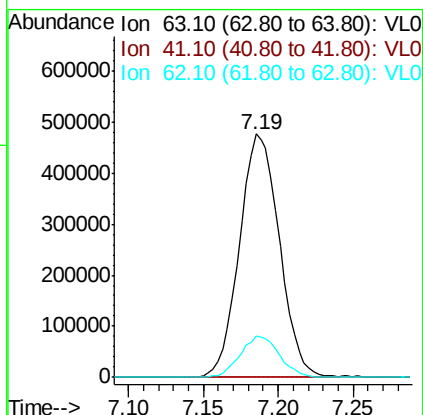
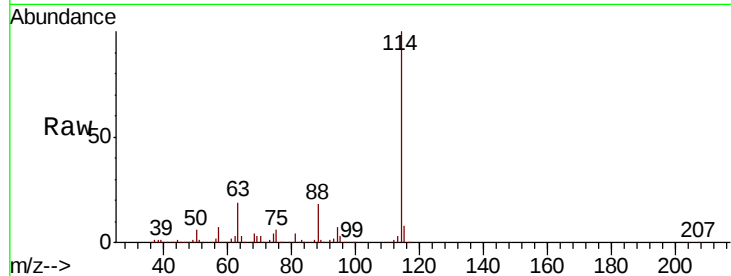




#39
 1,2-Dichloropropane
 Concen: 7.105 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. -0.44 min
 Lab File: VL035456.D
 Acq: 19 Aug 2020 00:21

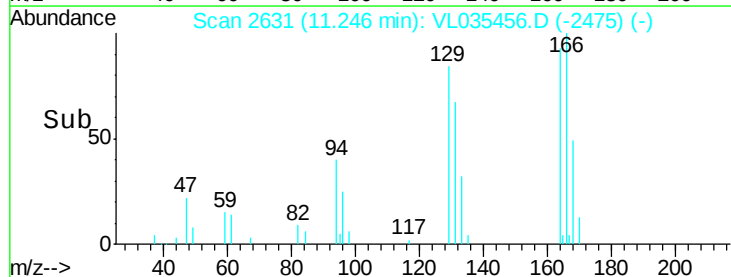
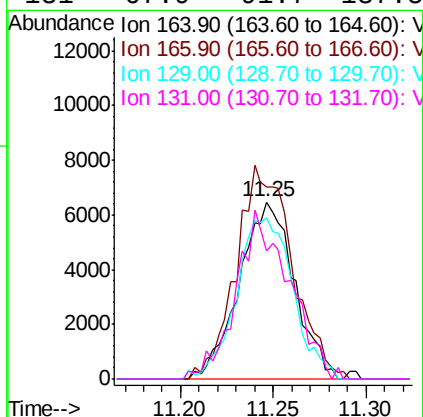
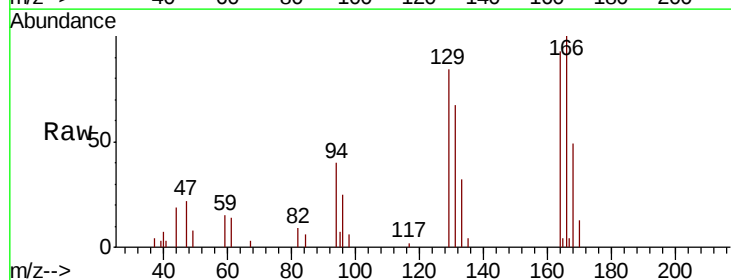
Instrument :
 MSVOA_L
 ClientSampleId :

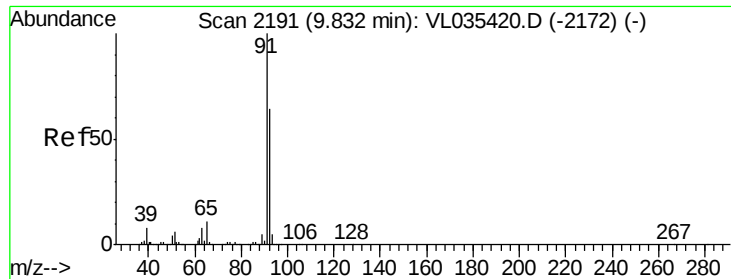
Tot Ion: 63 Resp: 884243
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.1 91.7#
 62 16.7 55.3 82.9#



#52
 Tetrachloroethene
 Concen: 0.058 ppbv
 RT: 11.25 min Scan# 2631
 Delta R.T. 0.00 min
 Lab File: VL035456.D
 Acq: 19 Aug 2020 00:21

Tgt Ion: 164 Resp: 13265
 Ion Ratio Lower Upper
 164 100
 166 108.1 103.4 155.0
 129 91.1 90.2 135.4
 131 67.9 91.7 137.5#





#53

Toluene

Concen: 0.154 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.00 min

Lab File: VL035456.D

Acq: 19 Aug 2020 00:21

Instrument :

MSVOA_L

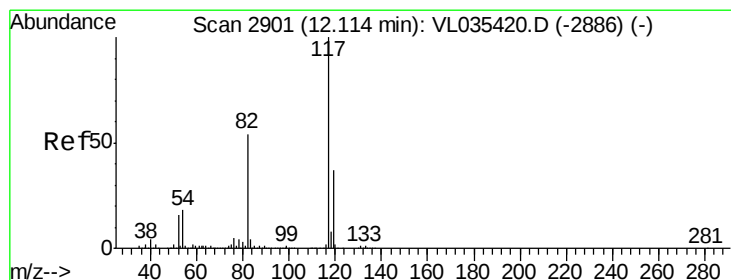
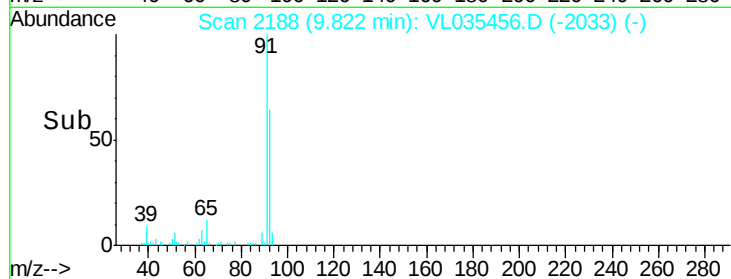
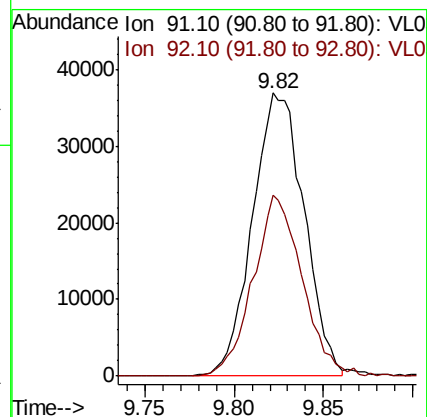
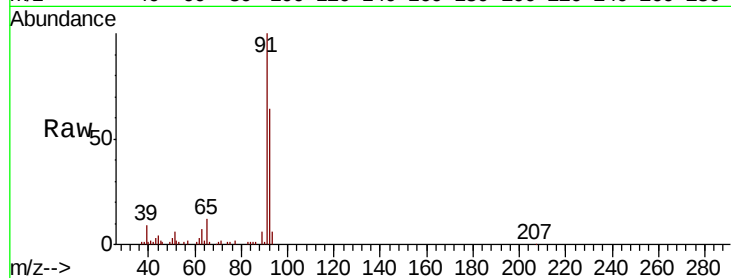
ClientSampleId :

Tot Ion: 91 Resp: 74708

Ion Ratio Lower Upper

91 100

92 60.9 49.1 73.7



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VL035456.D

Acq: 19 Aug 2020 00:21

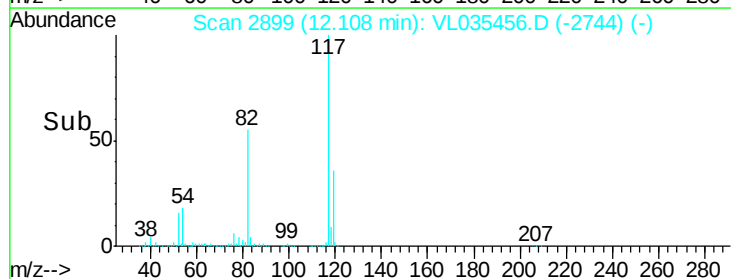
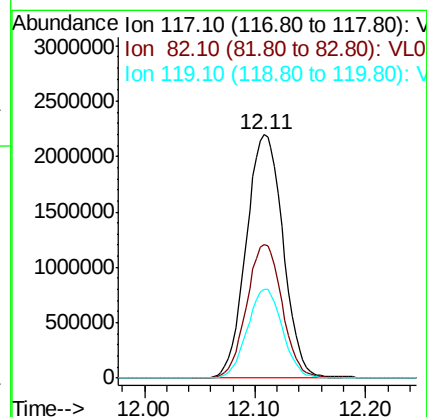
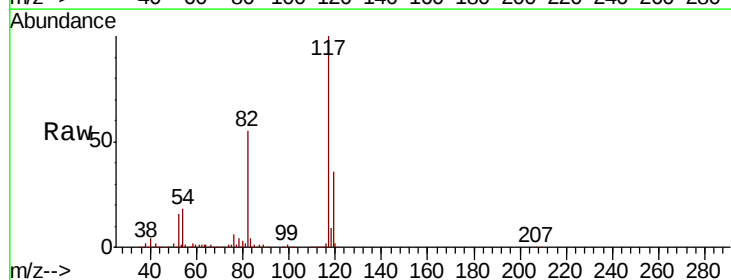
Tgt Ion: 117 Resp: 5083251

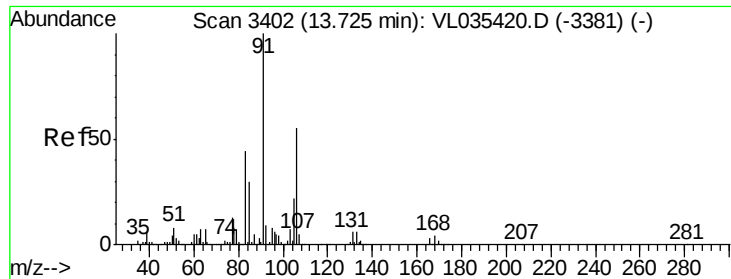
Ion Ratio Lower Upper

117 100

82 53.2 57.4 86.0#

119 35.2 28.4 42.6

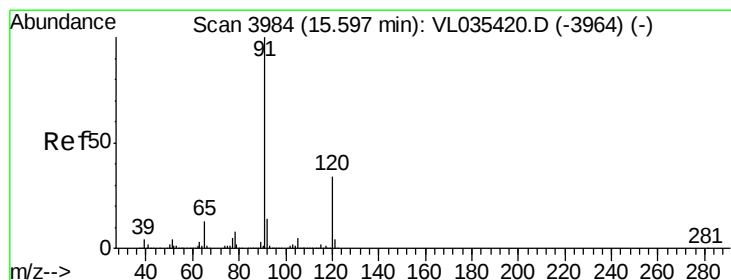
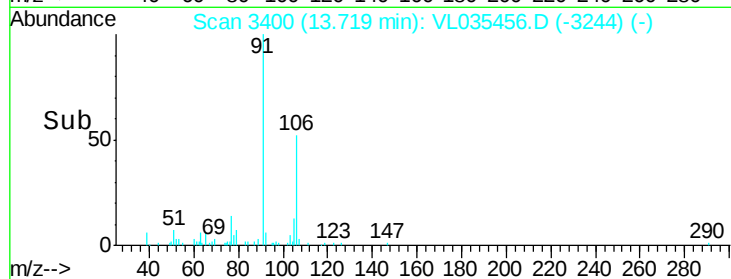
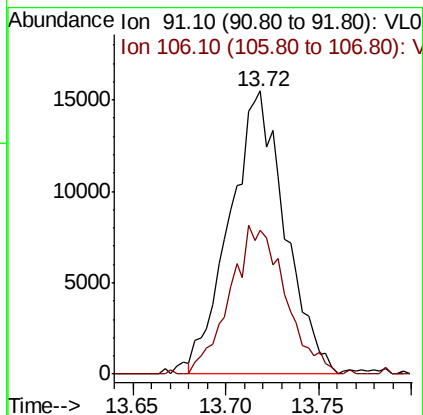
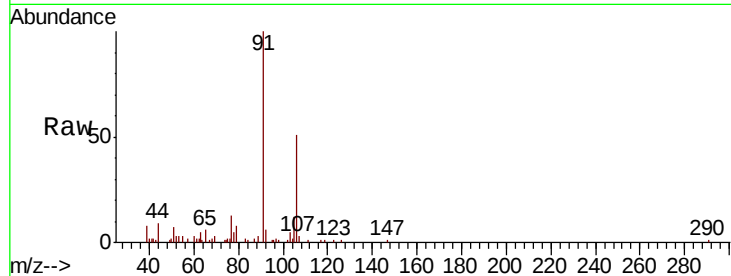




#60
o-Xylene
Concen: 0.064 ppbv
RT: 13.72 min Scan# 3400
Delta R.T. 0.00 min
Lab File: VL035456.D
Acq: 19 Aug 2020 00:21

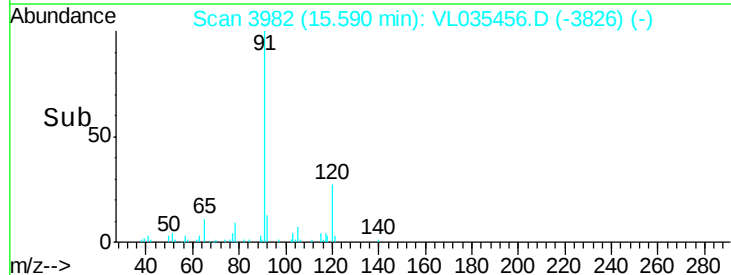
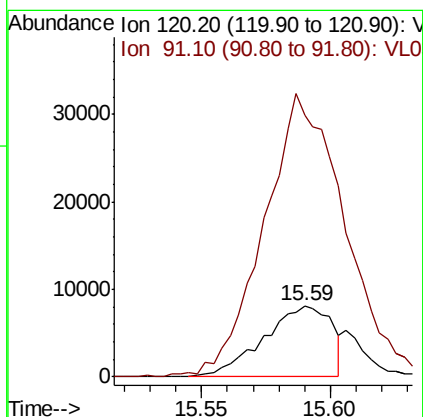
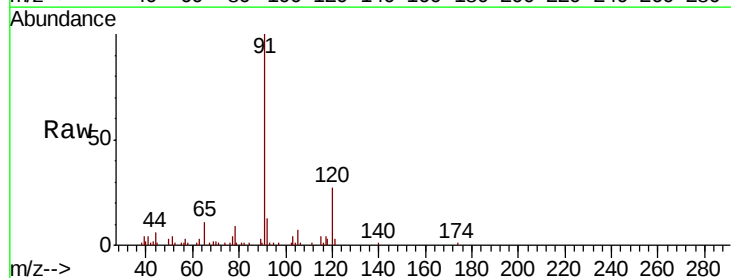
Instrument :
MSVOA_L
ClientSampleId :

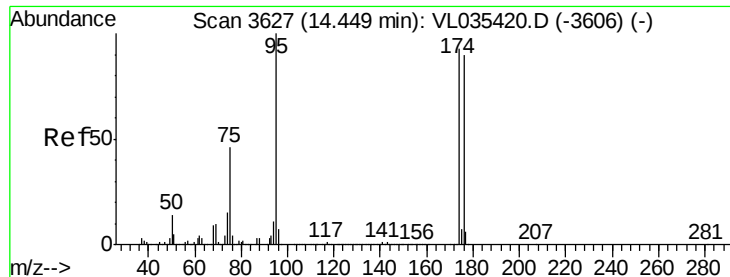
Tot Ion: 91 Resp: 32051
Ion Ratio Lower Upper
91 100
106 52.3 21.8 65.3



#64
n-propylbenzene
Concen: 0.058 ppbv
RT: 15.59 min Scan# 3982
Delta R.T. 0.00 min
Lab File: VL035456.D
Acq: 19 Aug 2020 00:21

Tgt Ion:120 Resp: 14805
Ion Ratio Lower Upper
120 100
91 481.8 385.5 578.3

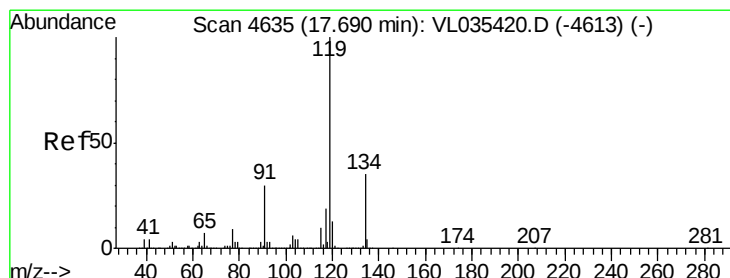
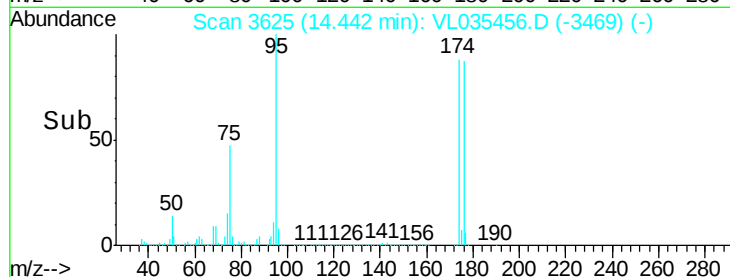
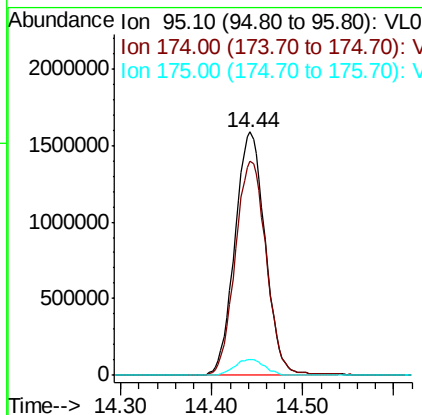
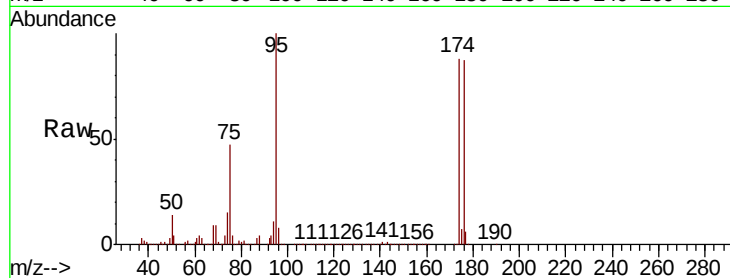




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.350 ppbv
 RT: 14.44 min Scan# 3625
 Delta R.T. 0.00 min
 Lab File: VL035456.D
 Acq: 19 Aug 2020 00:21

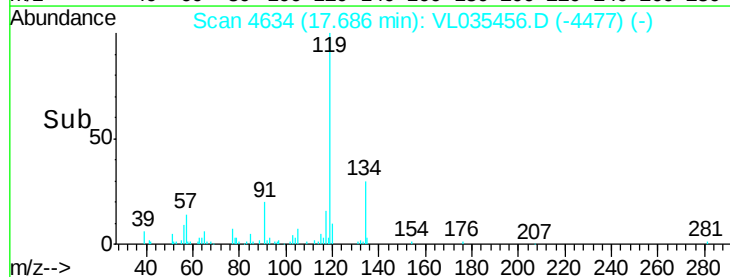
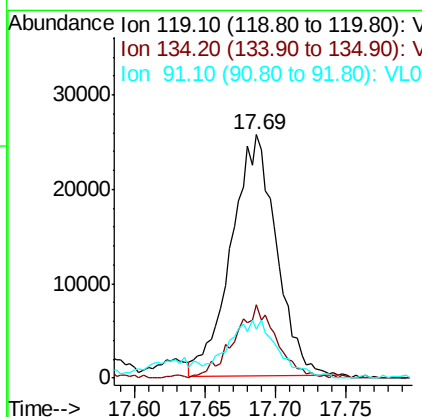
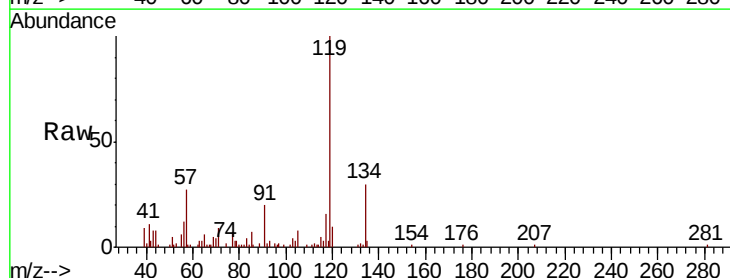
Instrument :
 MSVOA_L
 ClientSampleId :

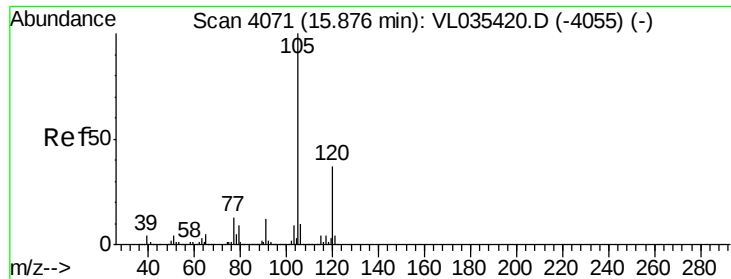
Tot Ion: 95 Resp: 3683349
 Ion Ratio Lower Upper
 95 100
 174 90.6 44.0 66.0#
 175 6.6 3.2 4.8#



#69
 p-Isopropyltoluene
 Concen: 0.061 ppbv
 RT: 17.69 min Scan# 4634
 Delta R.T. 0.01 min
 Lab File: VL035456.D
 Acq: 19 Aug 2020 00:21

Tgt Ion: 119 Resp: 56728
 Ion Ratio Lower Upper
 119 100
 134 29.6 20.6 30.8
 91 29.4 26.6 39.8





#72

4-Ethyltoluene

Concen: 0.127 ppbv

RT: 15.86 min Scan# 4067

Delta R.T. -0.00 min

Lab File: VL035456.D

Acq: 19 Aug 2020 00:21

Instrument :

MSVOA_L

ClientSampled :

Tot Ion:105 Resp: 84058

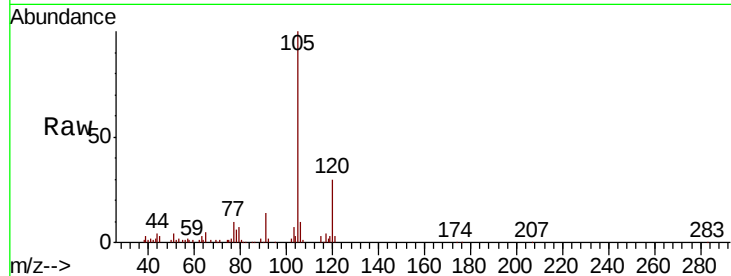
Ion Ratio Lower Upper

105 100

120 34.7 22.7 34.1#

91 13.8 10.8 16.2

77 12.4 11.9 17.9

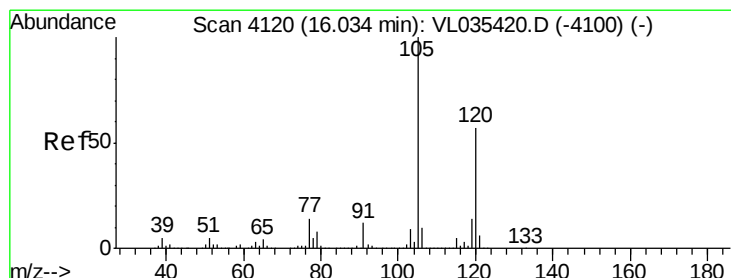
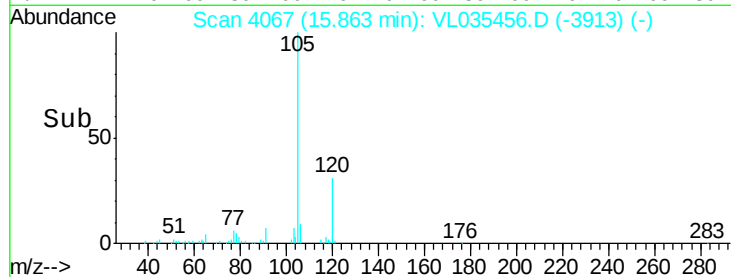
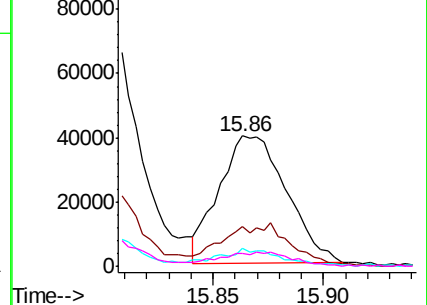


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.052 ppbv

RT: 16.02 min Scan# 4117

Delta R.T. -0.00 min

Lab File: VL035456.D

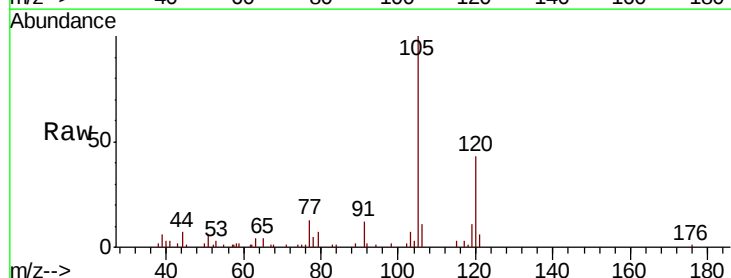
Acq: 19 Aug 2020 00:21

Tgt Ion:105 Resp: 32293

Ion Ratio Lower Upper

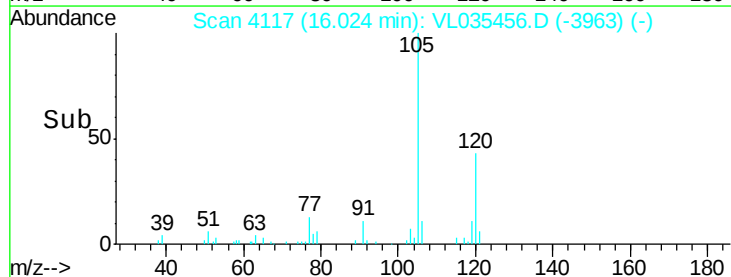
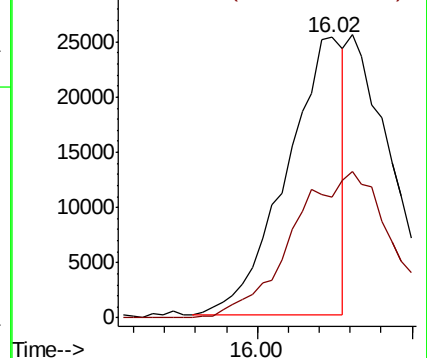
105 100

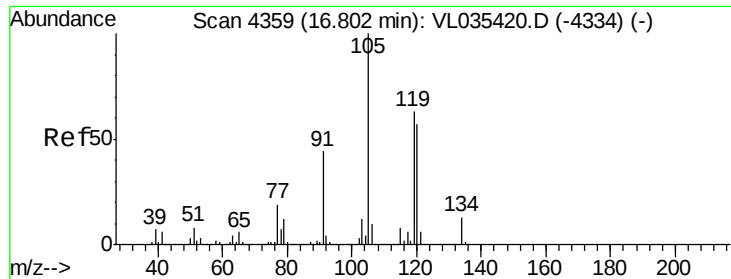
120 43.4 35.6 53.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

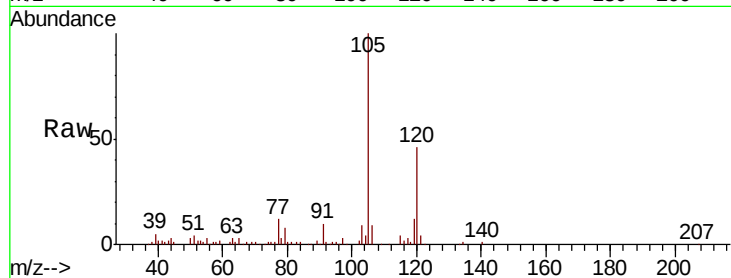




#74
 1,2,4-Trimethylbenzene
 Concen: 0.205 ppbv
 RT: 16.79 min Scan# 4356
 Delta R.T. -0.00 min
 Lab File: VL035456.D
 Acq: 19 Aug 2020 00:21

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:	105	Resp:	137415
Ion	Ratio	Lower	Upper
105	100		
120	46.1	37.8	56.8
91	10.0	40.0	60.0#
77	11.7	18.8	28.2#



Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

