

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081820\
 Data File : VL035452.D
 Acq On : 18 Aug 2020 21:48
 Operator : SY/AP
 Sample : L3725-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 19 02:45:26 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	5.69	49	1152614	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.20	114	5381964	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5488377	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	4049917	10.54	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	55392	0.259 ppbv	95
3) Chlorodifluoromethane	2.99	51	38231	0.265 ppbv	100
4) Chloromethane	3.14	50	19305	0.256 ppbv	92
7) Chloroethane	3.56	64	1450	0.044 ppbv	97
9) Propene	3.01	41	1743709	30.018 ppbv	99
10) Heptane	8.14	43	292389	1.920 ppbv #	82
11) Trichlorofluoromethane	3.96	101	108785	0.325 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.50	101	8163	0.033 ppbv #	16
13) Ethanol	3.62	45	2715163	127.578 ppbv	99
15) Acetone	3.85	43	10511405	79.232 ppbv #	38
16) 1,3-Butadiene	3.31	39	1800754	33.472 ppbv #	49
17) tert-Butyl alcohol	4.31	59	1203234	7.017 ppbv	99
19) Isopropyl Alcohol	3.99	45	829727	9.074 ppbv #	97
20) Methylene Chloride	4.36	84	618796	5.781 ppbv #	63
21) Allyl Chloride	4.41	41	36528	0.542 ppbv #	7
23) Vinyl Acetate	5.08	43	276291	1.457 ppbv #	66
25) Ethyl Acetate	5.70	43	414412	1.605 ppbv #	85
26) Hexane	5.70	57	676458	4.643 ppbv #	33
27) Carbon Disulfide	4.56	76	1016206	4.826 ppbv #	85
28) Methyl tert-Butyl Ether	5.05	73	30897	0.116 ppbv #	1
29) Chloroform	5.78	83	247290	0.845 ppbv	100
30) Cyclohexane	7.15	84	208848	1.292 ppbv #	62
34) 2-Butanone	5.25	43	6890187	38.318 ppbv #	54
36) Benzene	6.91	78	1025924	2.597 ppbv #	88
37) 1,2-Dichloroethane	6.32	62	6920	0.038 ppbv #	95
39) 1,2-Dichloropropane	7.20	63	944585	7.256 ppbv #	23
41) Tetrahydrofuran	6.06	42	2588820	26.100 ppbv #	53
42) Bromodichloromethane	7.82	83	63728	0.211 ppbv #	74
43) Methyl Methacrylate	8.03	69	298491	1.932 ppbv #	64
44) 2,2,4-Trimethylpentane	7.89	57	353717	0.686 ppbv #	87
50) 4-Methyl-2-Pentanone	8.76	43	4800023	18.609 ppbv #	76
51) 2-Hexanone	10.16	43	778923	3.583 ppbv #	77
52) Tetrachloroethene	11.25	164	50639	0.210 ppbv #	85
53) Toluene	9.83	91	4600899	9.043 ppbv	97
58) Ethyl Benzene	12.74	91	1421662	2.146 ppbv	93
59) m/p-Xylene	13.00	91	3989795	7.124 ppbv #	82
60) o-Xylene	13.72	91	1580522	2.904 ppbv	88
61) Styrene	13.56	104	304133	0.691 ppbv #	87
62) Isopropylbenzene	14.70	105	227216	0.255 ppbv	96
64) n-propylbenzene	15.60	120	108058	0.393 ppbv #	1
65) tert-Butylbenzene	16.80	119	494281	0.570 ppbv #	89

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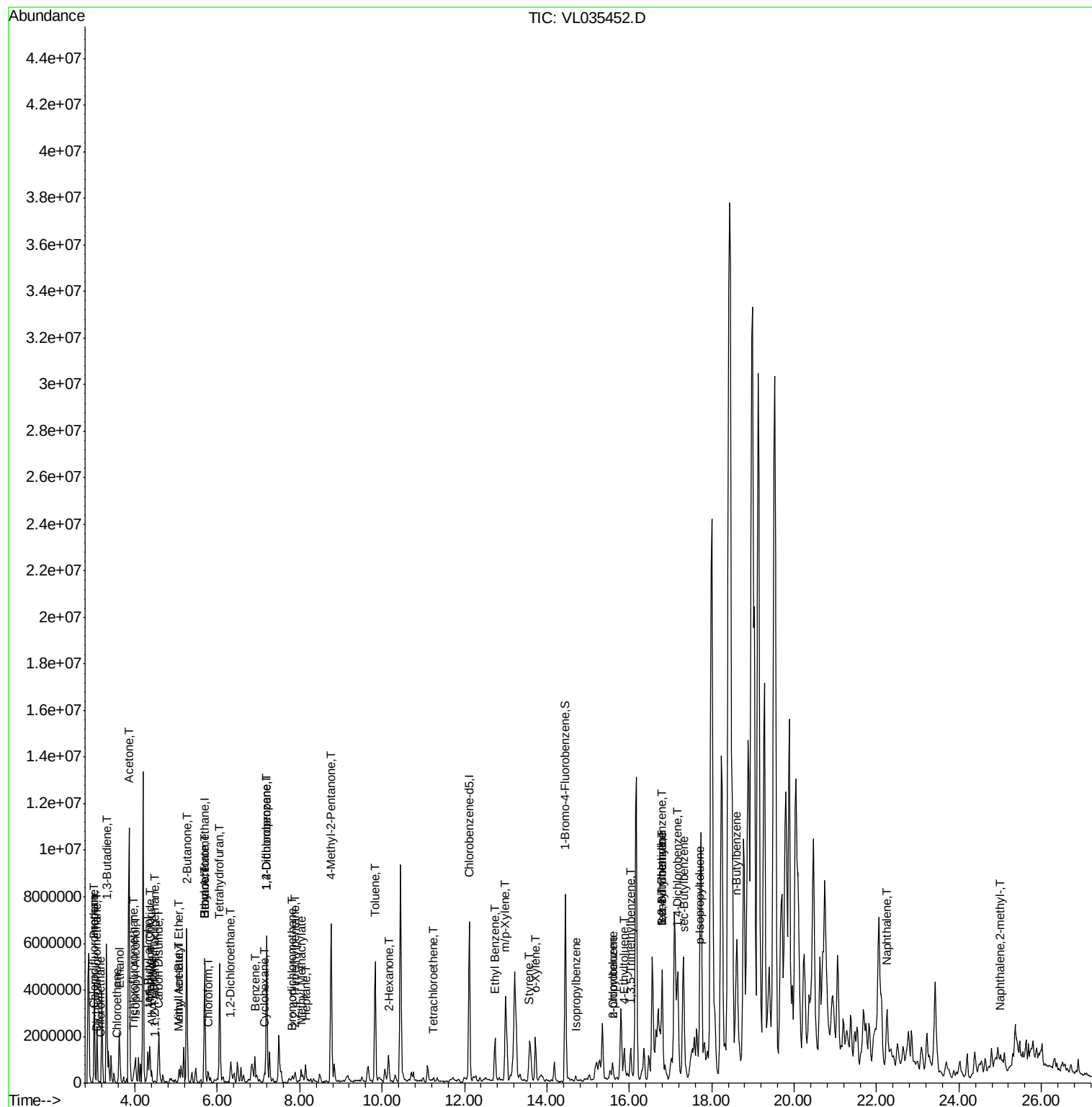
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) Benzyl Chloride	16.80	91	410034	1.966	ppbv #	69
67) sec-Butylbenzene	17.33	105	182084	0.160	ppbv	95
69) p-Isopropyltoluene	17.69	119	313796	0.310	ppbv	93
70) n-Butylbenzene	18.61	91	549131	0.574	ppbv #	31
71) 2-Chlorotoluene	15.60	91	843878	1.304	ppbv #	47
72) 4-Ethyltoluene	15.87	105	1179764	1.652	ppbv #	91
73) 1,3,5-Trimethylbenzene	16.03	105	1151521	1.732	ppbv	90
74) 1,2,4-Trimethylbenzene	16.80	105	3887158	5.382	ppbv #	70
76) 1,4-Dichlorobenzene	17.18	146	17606	0.032	ppbv #	25
79) Naphthalene	22.26	128	1257597	1.237	ppbv	98
80) Naphthalene,2-methyl-	25.01	142	426796	1.015	ppbv	96

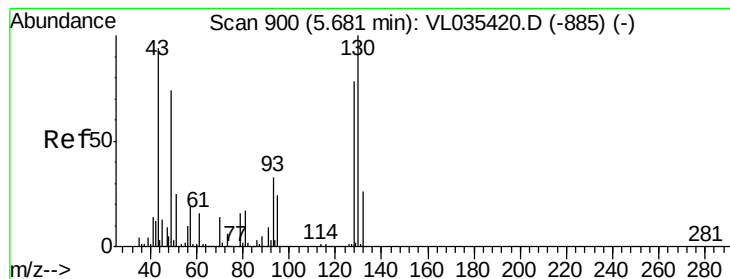
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.01 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Instrument :

MSVOA_L

ClientSampled :

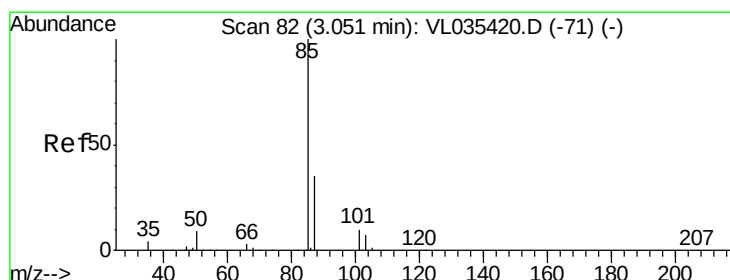
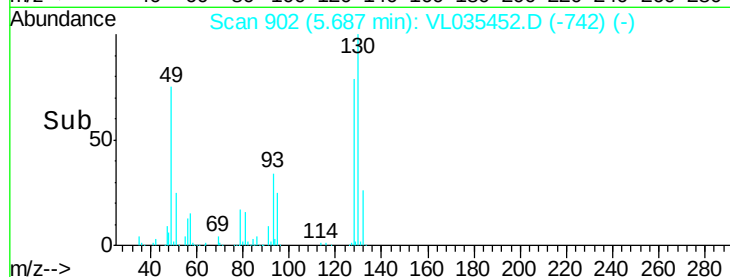
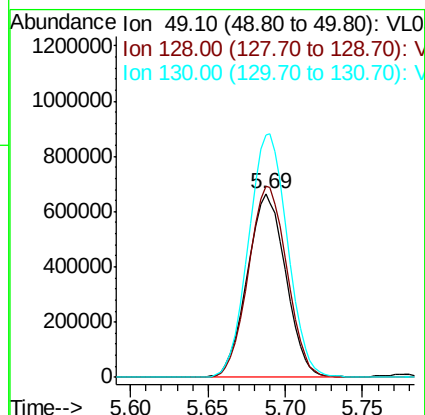
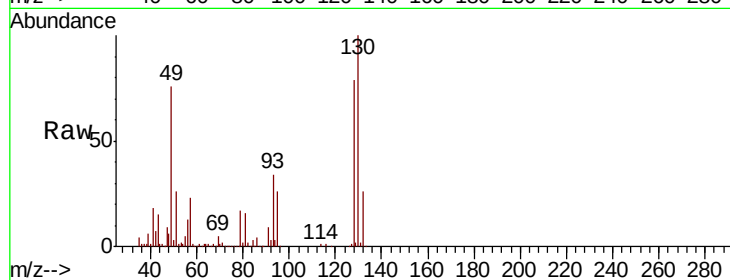
Tot Ion: 49 Resp: 1152614

Ion Ratio Lower Upper

49 100

128 105.1 20.9 62.7#

130 135.1 26.7 80.1#



#2

Dichlorodifluoromethane

Concen: 0.259 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.01 min

Lab File: VL035452.D

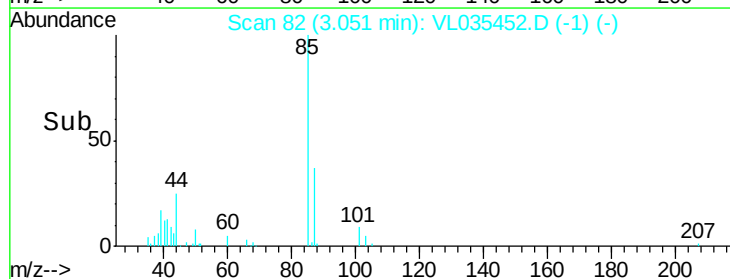
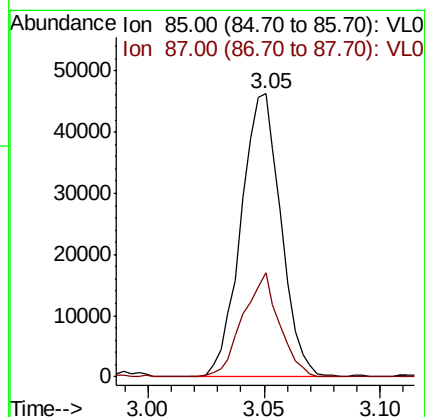
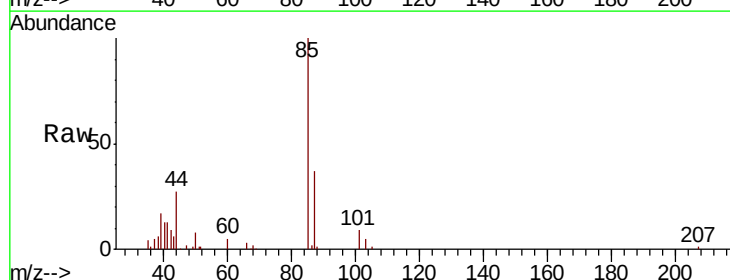
Acq: 18 Aug 2020 21:48

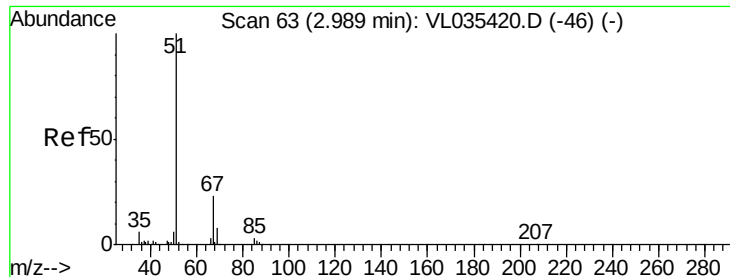
Tgt Ion: 85 Resp: 55392

Ion Ratio Lower Upper

85 100

87 36.8 27.1 40.7





#3

Chlorodifluoromethane

Concen: 0.265 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Instrument :

MSVOA_L

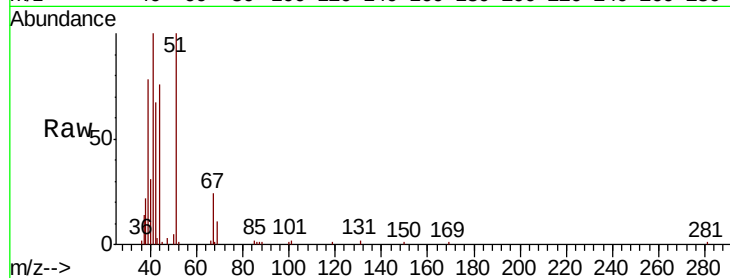
ClientSampleId :

Tot Ion: 51 Resp: 38231

Ion Ratio Lower Upper

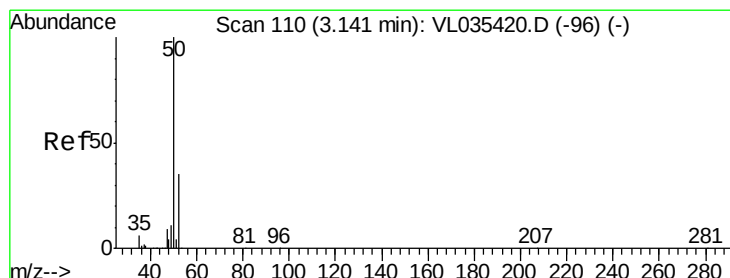
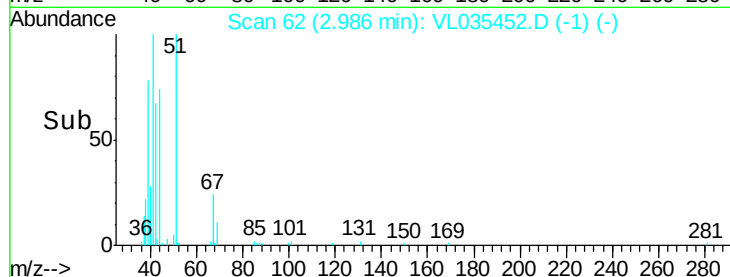
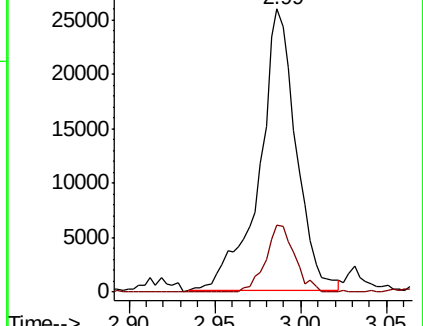
51 100

67 18.8 15.0 22.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.256 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.01 min

Lab File: VL035452.D

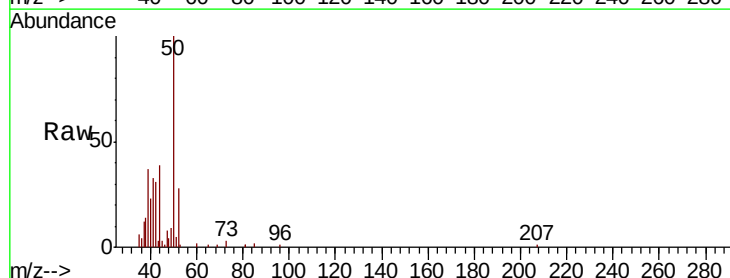
Acq: 18 Aug 2020 21:48

Tgt Ion: 50 Resp: 19305

Ion Ratio Lower Upper

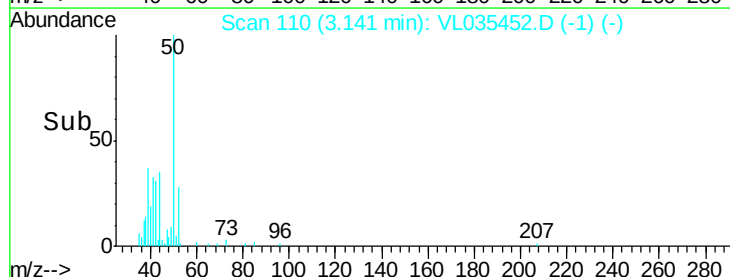
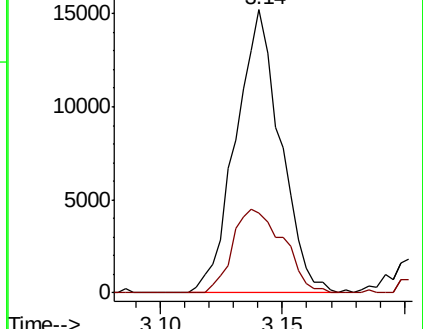
50 100

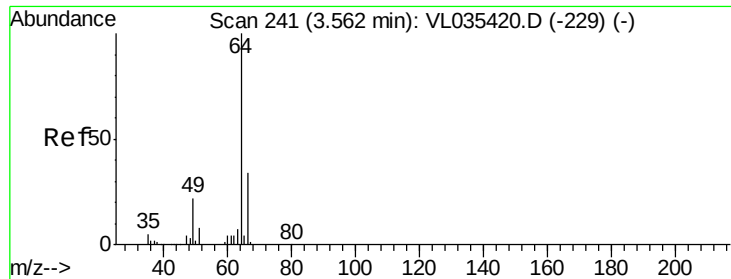
52 28.1 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.044 ppbv

RT: 3.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Instrument :

MSVOA_L

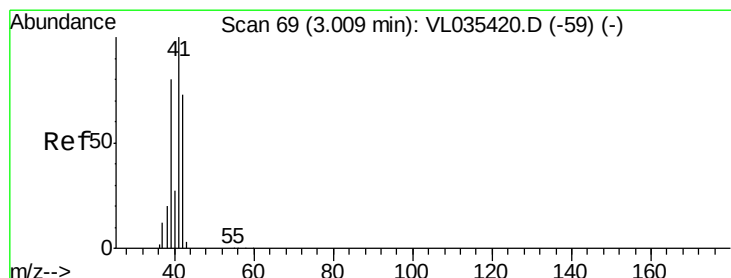
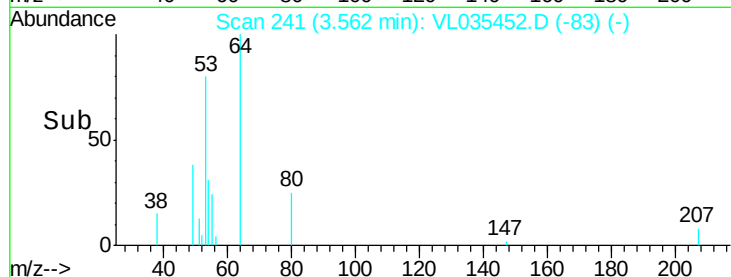
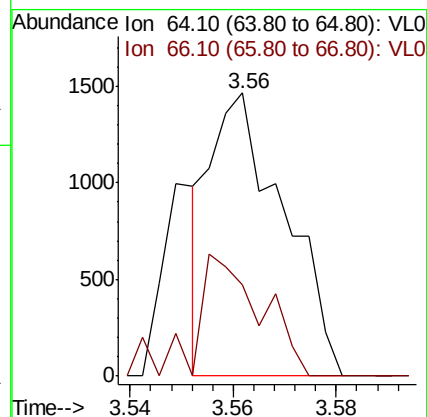
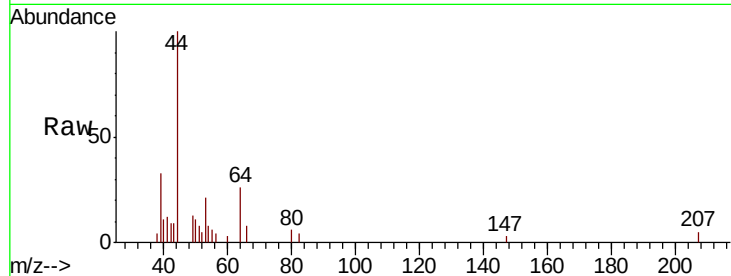
ClientSampleId :

Tot Ion: 64 Resp: 1450

Ion Ratio Lower Upper

64 100

66 32.2 24.5 36.7



#9

Propene

Concen: 30.018 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL035452.D

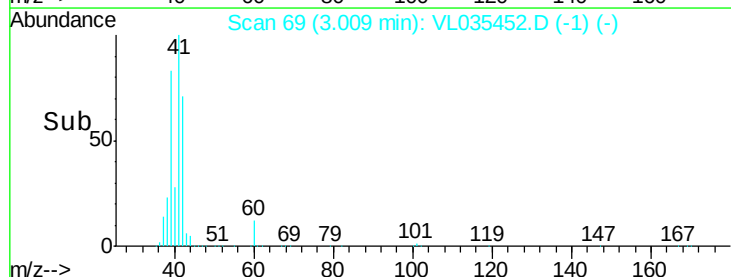
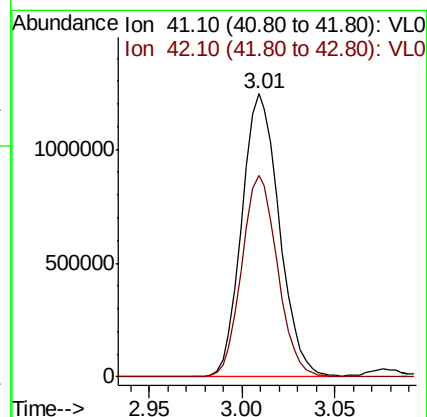
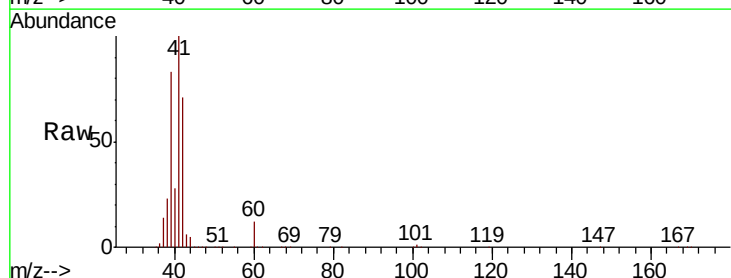
Acq: 18 Aug 2020 21:48

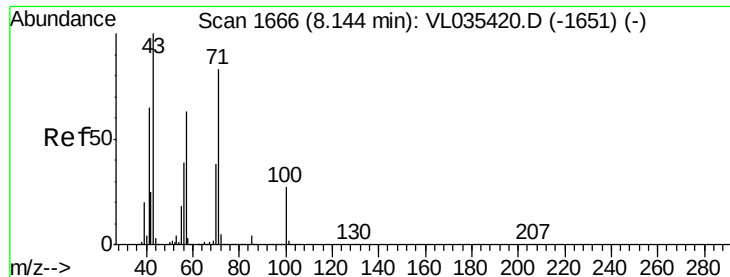
Tgt Ion: 41 Resp: 1743709

Ion Ratio Lower Upper

41 100

42 68.4 55.5 83.3

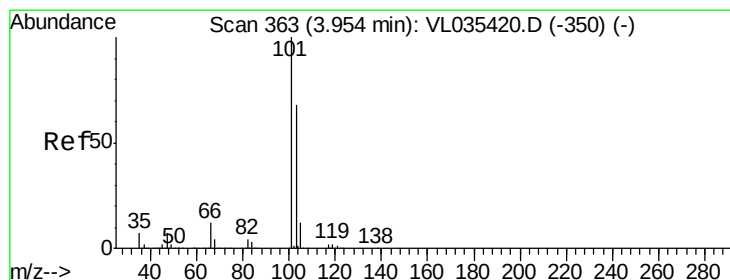
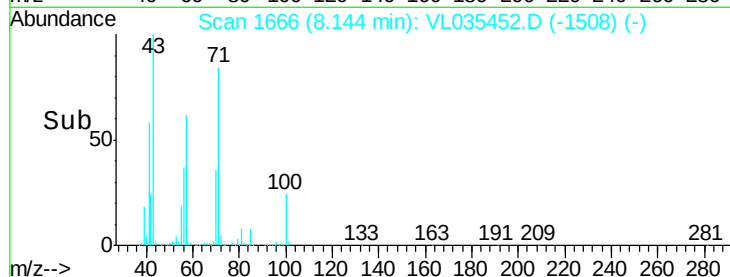
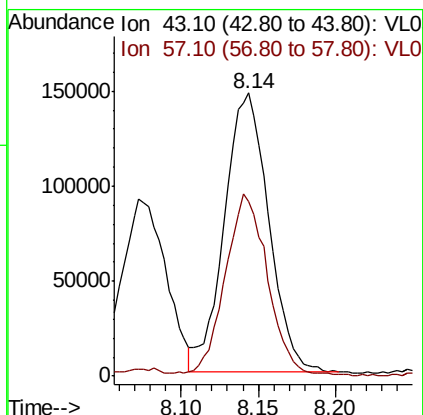
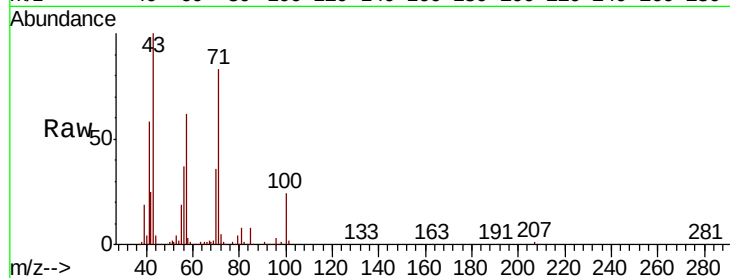




#10
 Heptane
 Concen: 1.920 ppbv
 RT: 8.14 min Scan# 1666
 Delta R.T. 0.01 min
 Lab File: VL035452.D
 Acq: 18 Aug 2020 21:48

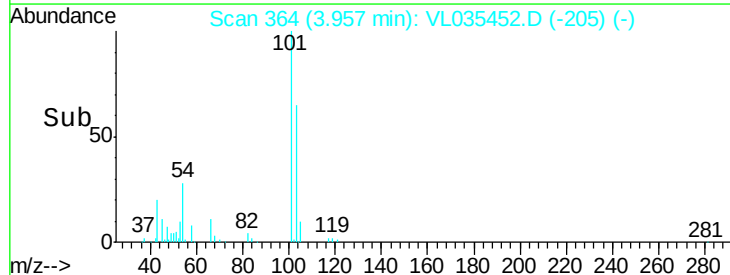
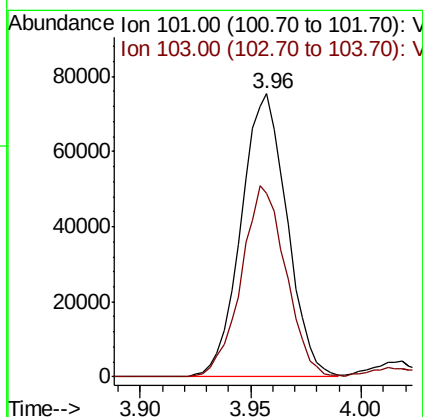
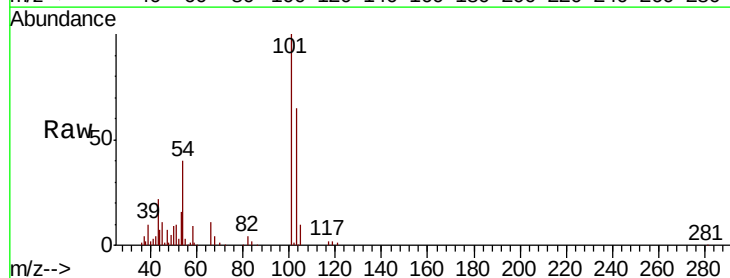
Instrument :
 MSVOA_L
 ClientSampleId :

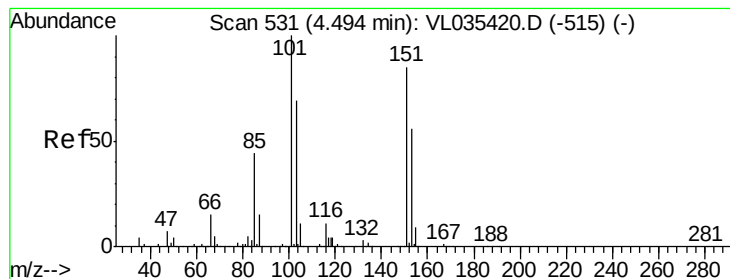
Tot Ion: 43 Resp: 292389
 Ion Ratio Lower Upper
 43 100
 57 62.0 39.8 59.6#



#11
 Trichlorofluoromethane
 Concen: 0.325 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. 0.01 min
 Lab File: VL035452.D
 Acq: 18 Aug 2020 21:48

Tgt Ion: 101 Resp: 108785
 Ion Ratio Lower Upper
 101 100
 103 64.7 52.6 78.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.033 ppbv

RT: 4.50 min Scan# 532

Delta R.T. 0.01 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Instrument :

MSVOA_L

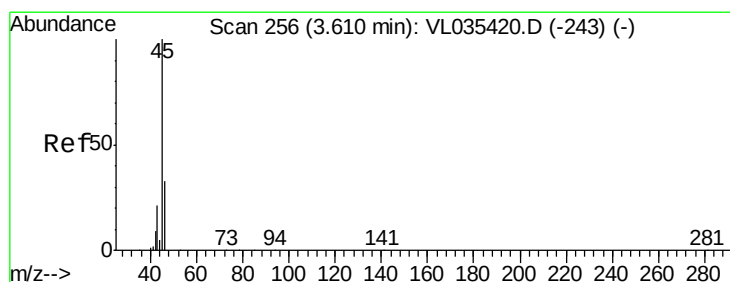
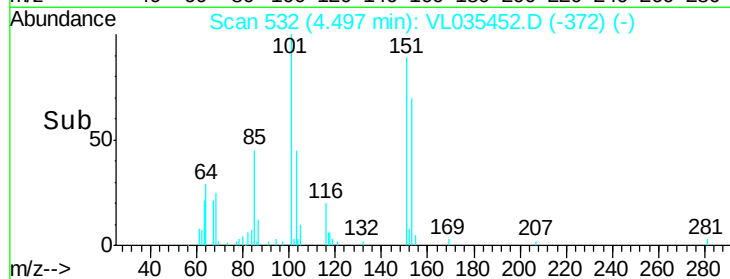
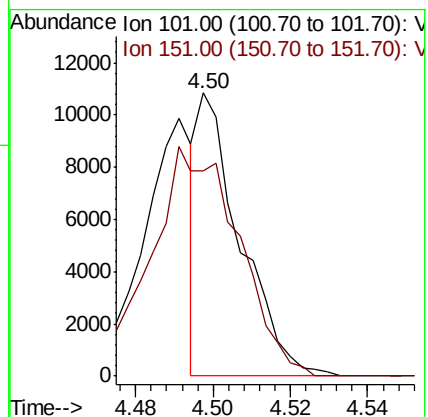
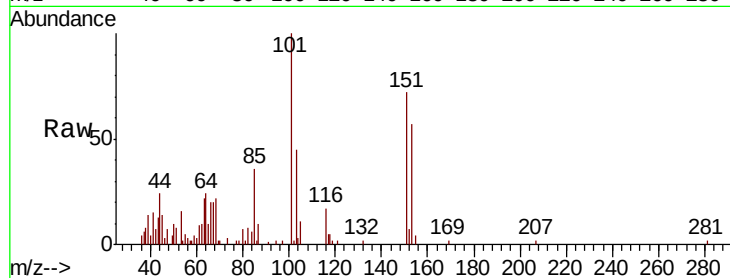
ClientSampleId :

Tot Ion:101 Resp: 8163

Ion Ratio Lower Upper

101 100

151 0.0 53.6 80.4#



#13

Ethanol

Concen: 127.578 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.02 min

Lab File: VL035452.D

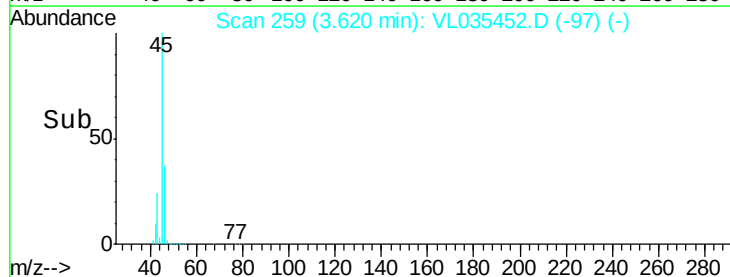
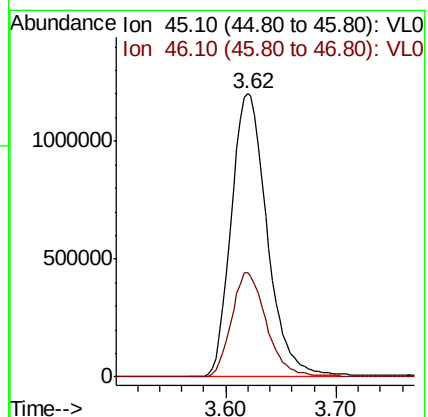
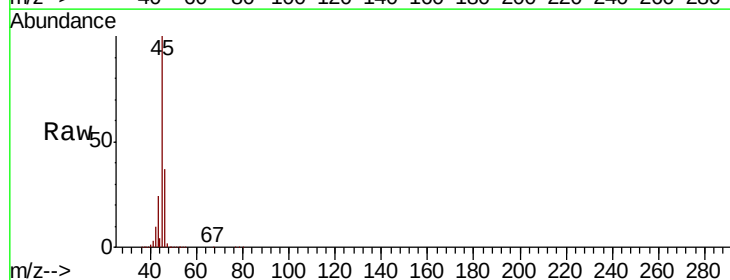
Acq: 18 Aug 2020 21:48

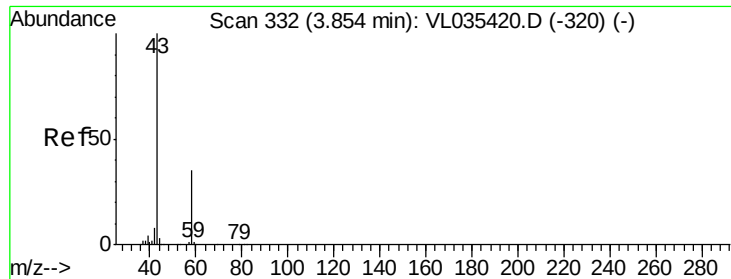
Tgt Ion: 45 Resp: 2715163

Ion Ratio Lower Upper

45 100

46 36.1 14.2 56.6





#15

Acetone

Concen: 79.232 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.01 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Instrument :

MSVOA_L

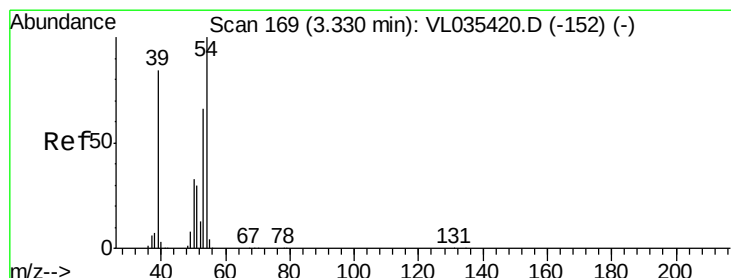
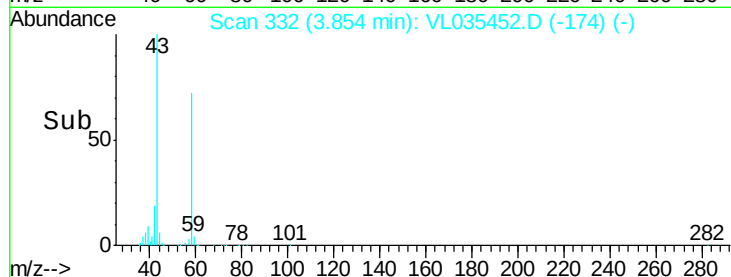
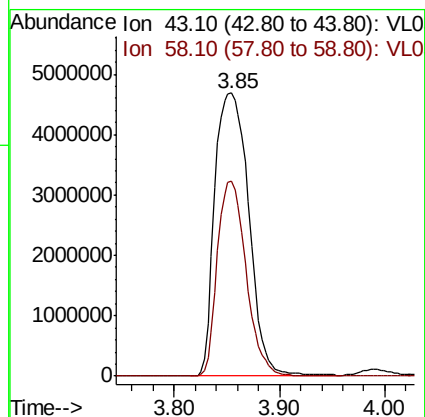
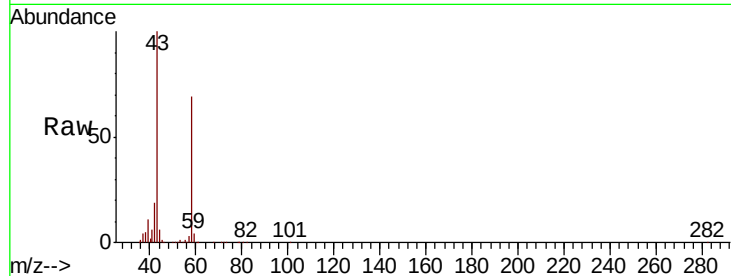
ClientSampled :

Tot Ion: 43 Resp:10511405

Ion Ratio Lower Upper

43 100

58 58.3 21.0 31.6#



#16

1,3-Butadiene

Concen: 33.472 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.01 min

Lab File: VL035452.D

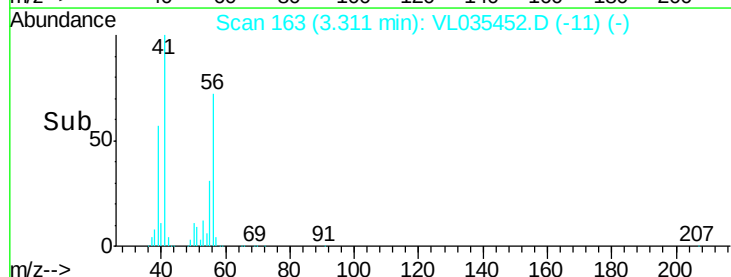
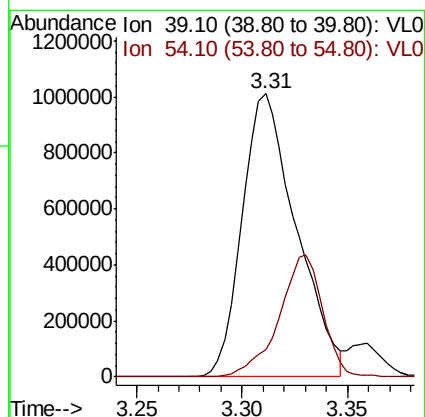
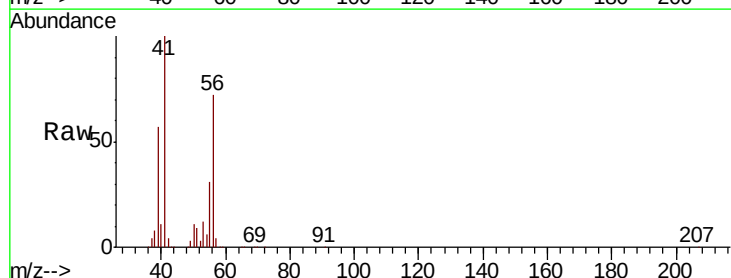
Acq: 18 Aug 2020 21:48

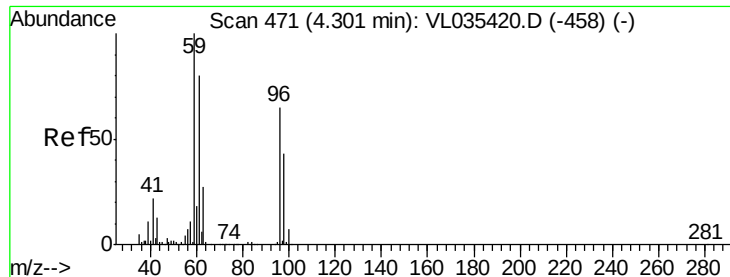
Tgt Ion: 39 Resp: 1800754

Ion Ratio Lower Upper

39 100

54 35.0 64.4 96.6#





#17

tert-Butyl alcohol

Concen: 7.017 ppbv

RT: 4.31 min Scan# 475

Delta R.T. 0.02 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Instrument :

MSVOA_L

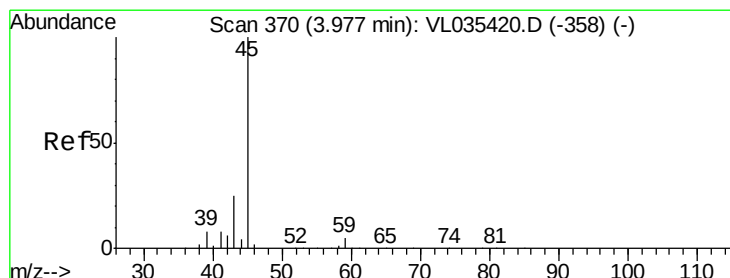
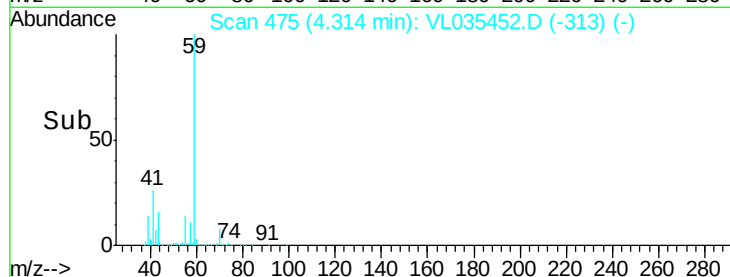
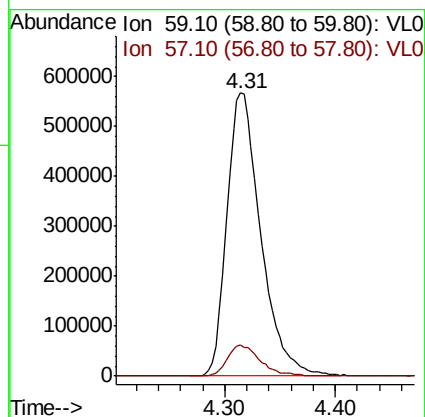
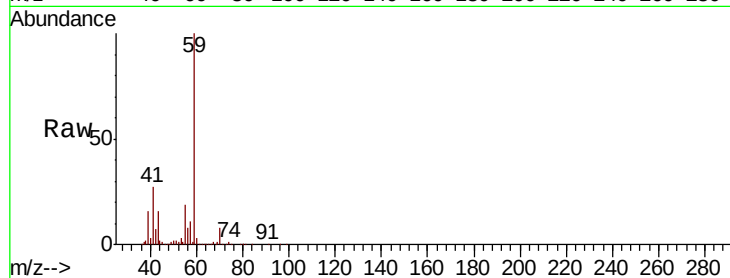
ClientSampleId :

Tot Ion: 59 Resp: 1203234

Ion Ratio Lower Upper

59 100

57 10.8 8.9 13.3



#19

Isopropyl Alcohol

Concen: 9.074 ppbv

RT: 3.99 min Scan# 374

Delta R.T. 0.02 min

Lab File: VL035452.D

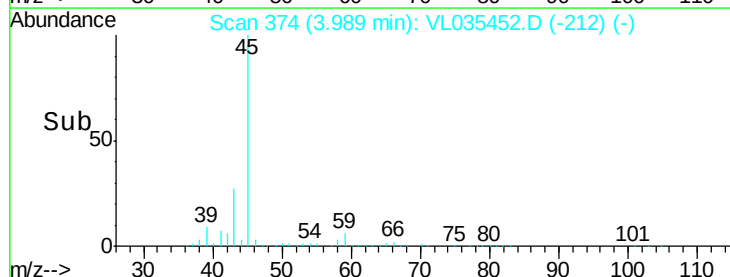
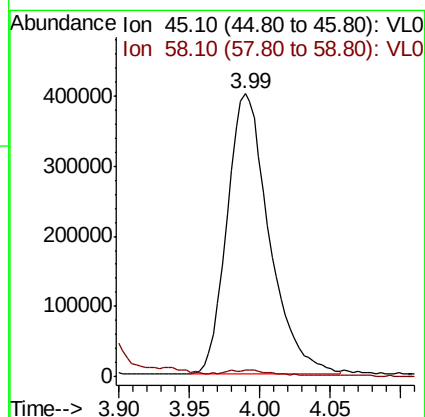
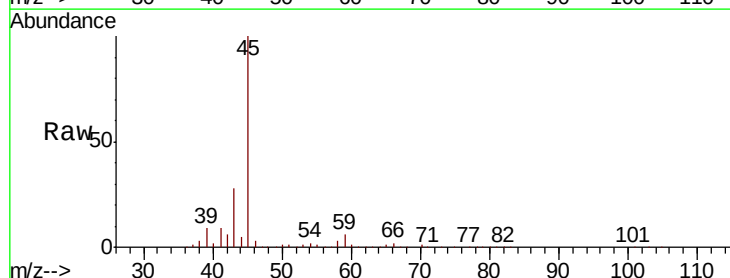
Acq: 18 Aug 2020 21:48

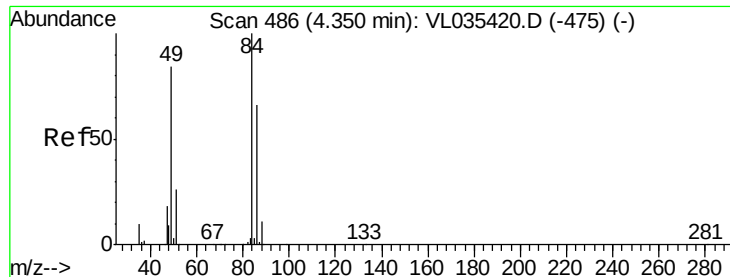
Tgt Ion: 45 Resp: 829727

Ion Ratio Lower Upper

45 100

58 0.0 1.0 1.6#





#20

Methylene Chloride

Concen: 5.781 ppbv

RT: 4.36 min Scan# 489

Delta R.T. 0.02 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 84 Resp: 618796

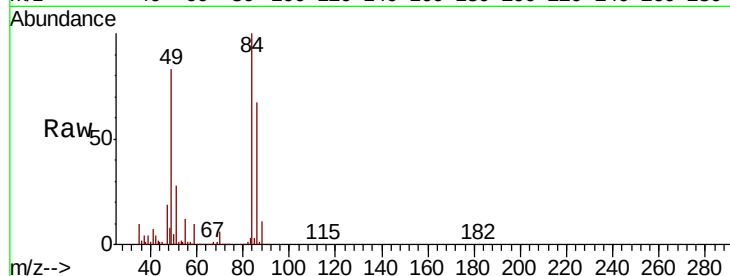
Ion Ratio Lower Upper

84 100

49 82.8 118.6 177.8#

51 25.6 36.4 54.6#

86 66.9 50.2 75.4

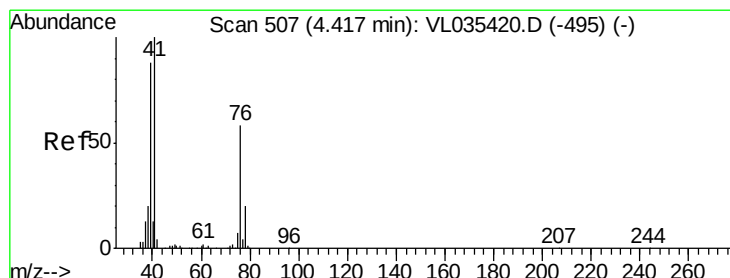
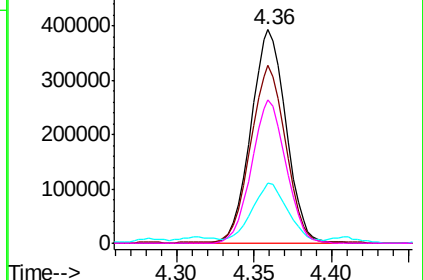
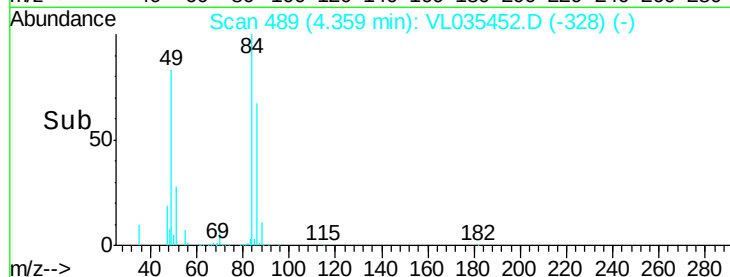


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21

Allyl Chloride

Concen: 0.542 ppbv

RT: 4.41 min Scan# 504

Delta R.T. -0.01 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

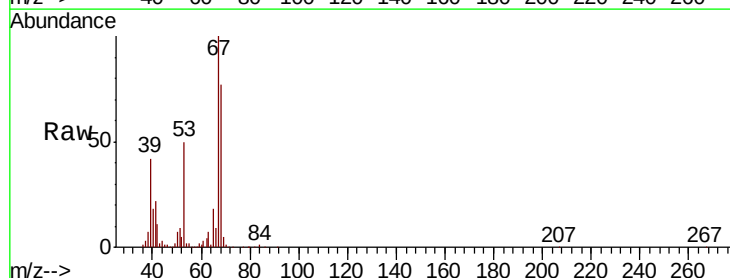
Tgt Ion: 41 Resp: 36528

Ion Ratio Lower Upper

41 100

76 0.0 22.8 34.2#

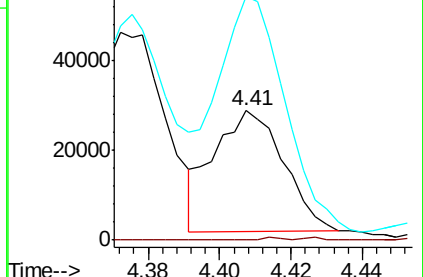
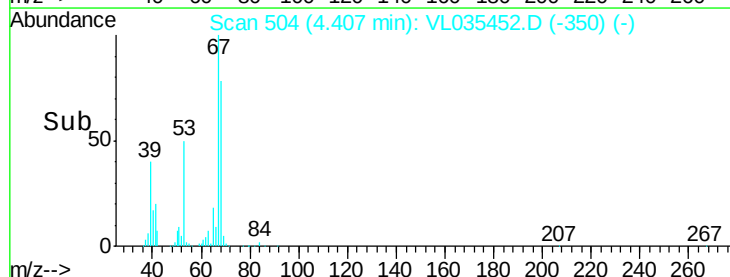
39 179.0 66.2 99.2#

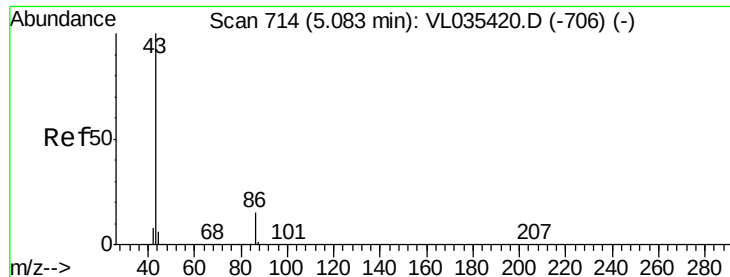


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 1.457 ppbv

RT: 5.08 min Scan# 713

Delta R.T. 0.00 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 43 Resp: 276291

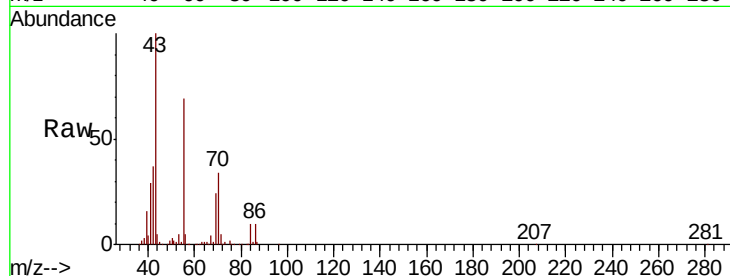
Ion Ratio Lower Upper

43 100

86 10.6 6.5 9.7#

42 36.0 8.3 12.5#

44 2.7 4.0 6.0#

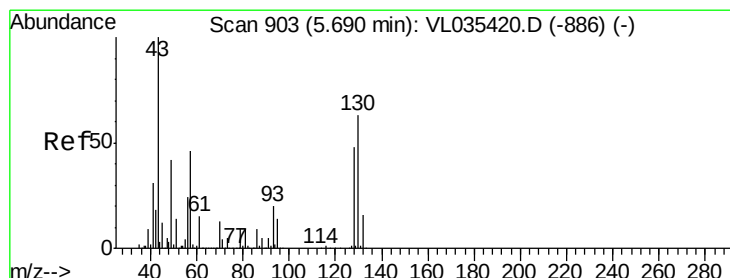
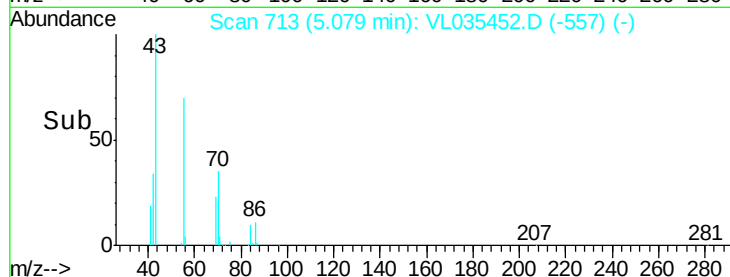
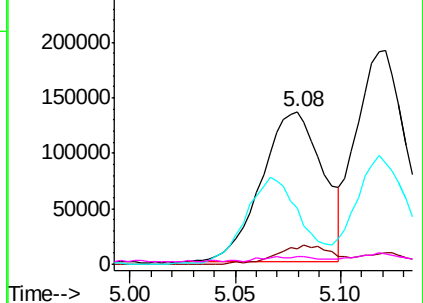


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 1.605 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.01 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Tgt Ion: 43 Resp: 414412

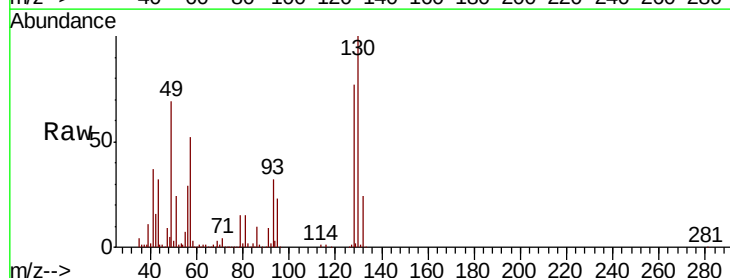
Ion Ratio Lower Upper

43 100

45 3.8 8.3 12.5#

61 2.8 7.6 11.4#

70 5.4 6.0 9.0#

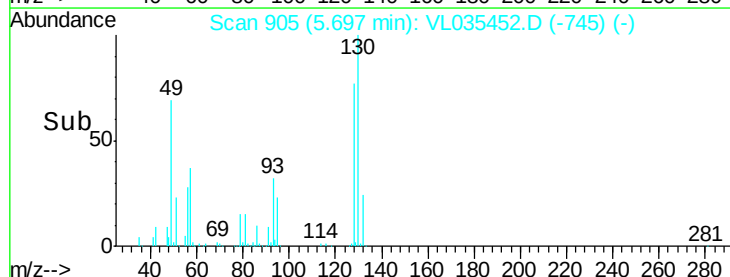
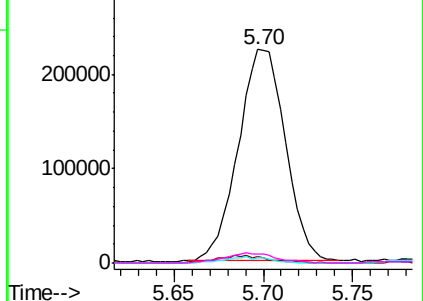


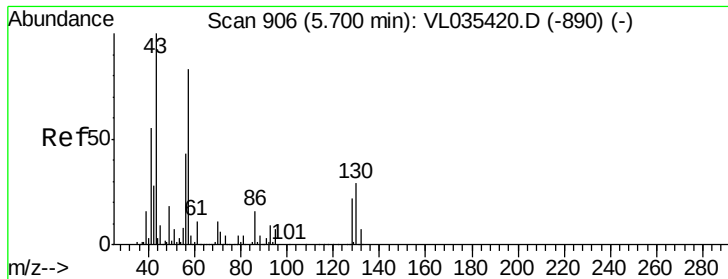
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 4.643 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.01 min

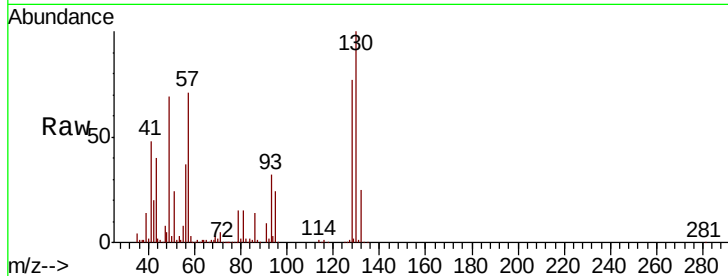
Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 676458

Ion	Ratio	Lower	Upper
57	100		
41	74.9	75.5	113.3#
43	62.3	181.7	272.5#
56	55.7	42.4	63.6



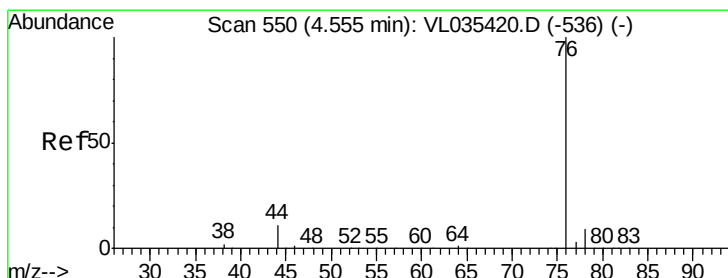
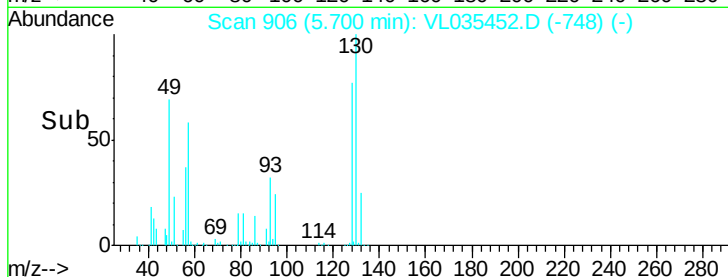
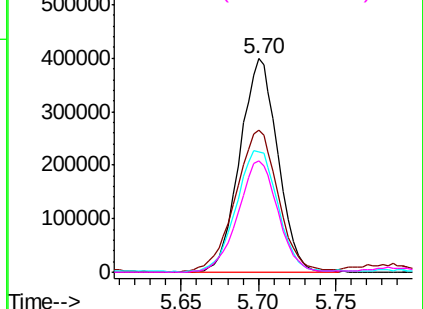
Abundance

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



#27

Carbon Disulfide

Concen: 4.826 ppbv

RT: 4.56 min Scan# 551

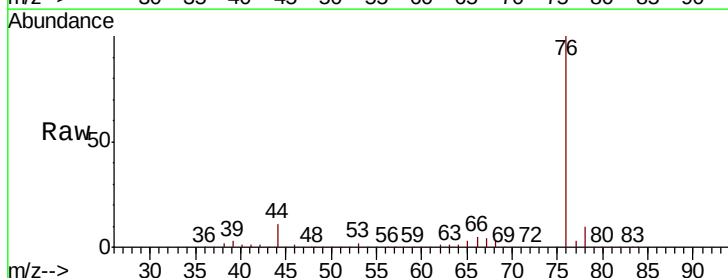
Delta R.T. 0.01 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Tgt Ion: 76 Resp: 1016206

Ion	Ratio	Lower	Upper
76	100		
44	11.0	16.8	25.2#
78	9.5	7.3	10.9

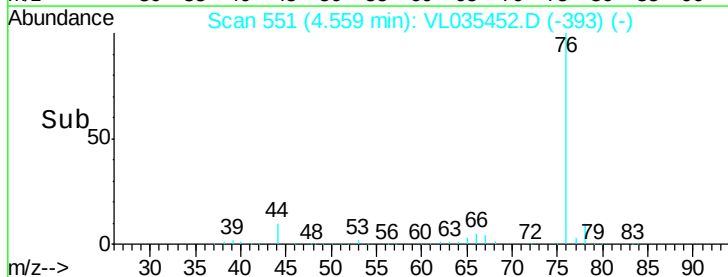
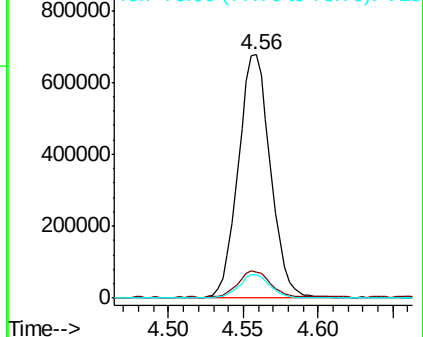


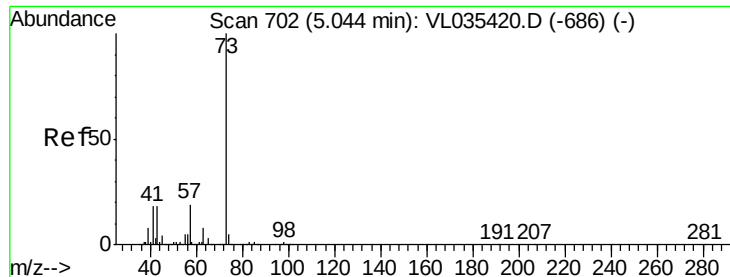
Abundance

Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



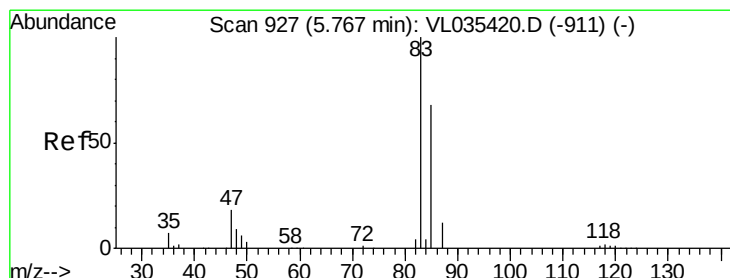
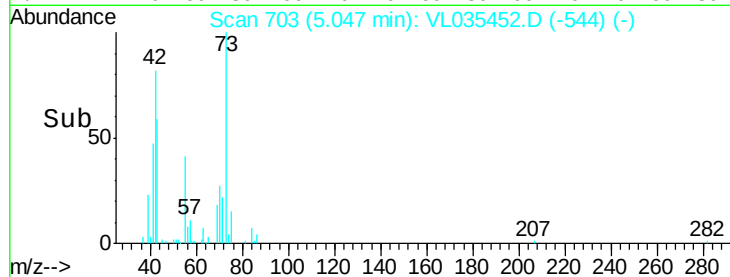
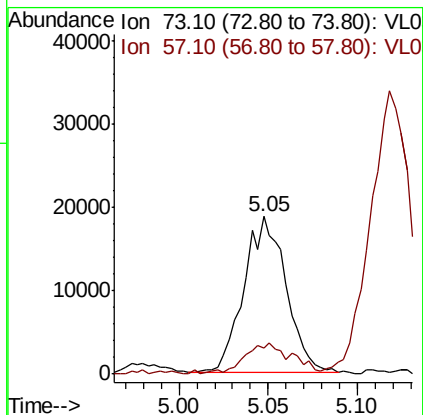
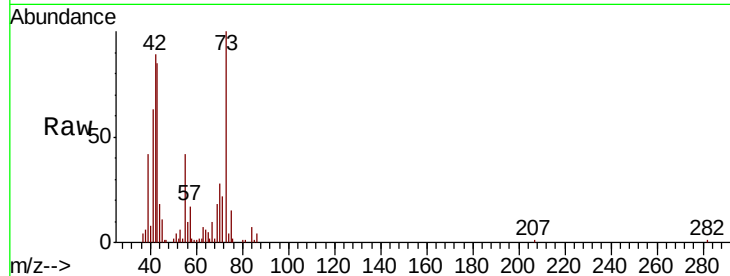


#28

Methyl tert-Butyl Ether
 Concen: 0.116 ppbv
 RT: 5.05 min Scan# 703
 Delta R.T. 0.01 min
 Lab File: VL035452.D
 Acq: 18 Aug 2020 21:48

Instrument :
 MSVOA_L
 ClientSampleId :

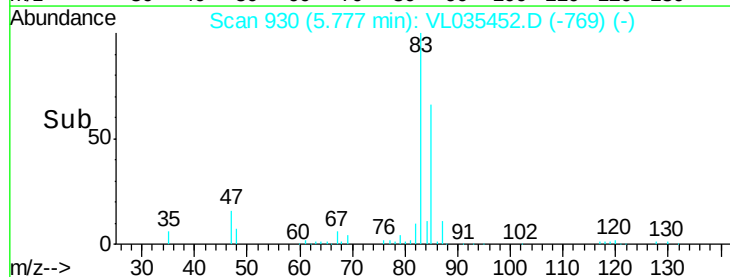
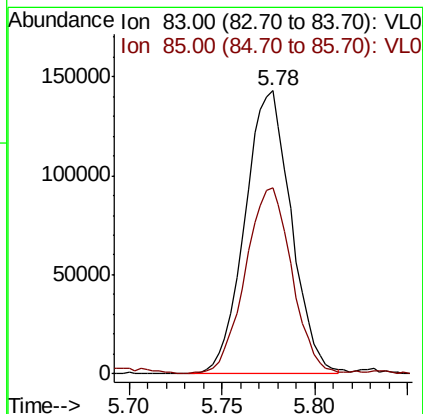
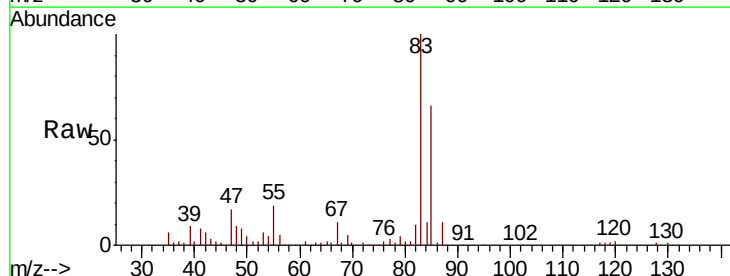
Tot Ion: 73 Resp: 30897
 Ion Ratio Lower Upper
 73 100
 57 171.9 18.3 27.5#

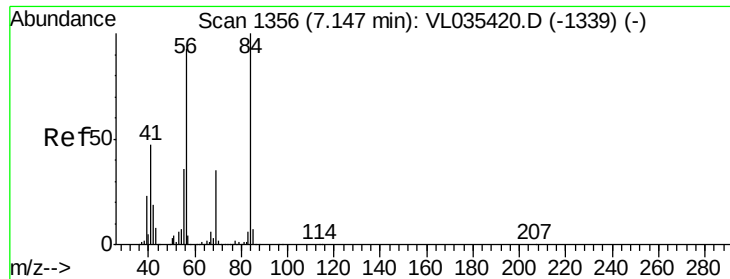


#29

Chloroform
 Concen: 0.845 ppbv
 RT: 5.78 min Scan# 930
 Delta R.T. 0.02 min
 Lab File: VL035452.D
 Acq: 18 Aug 2020 21:48

Tgt Ion: 83 Resp: 247290
 Ion Ratio Lower Upper
 83 100
 85 65.7 52.7 79.1

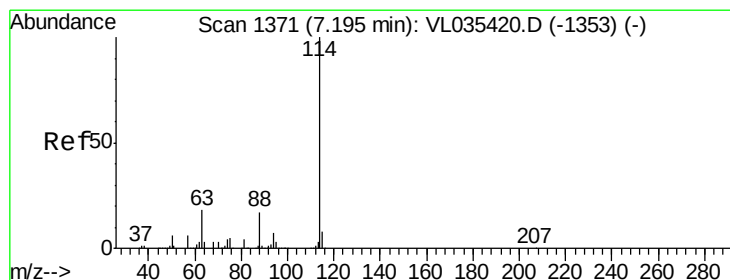
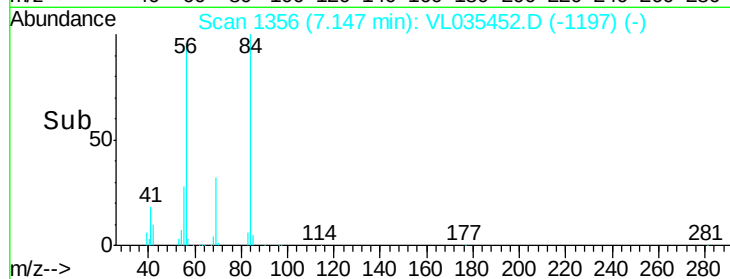
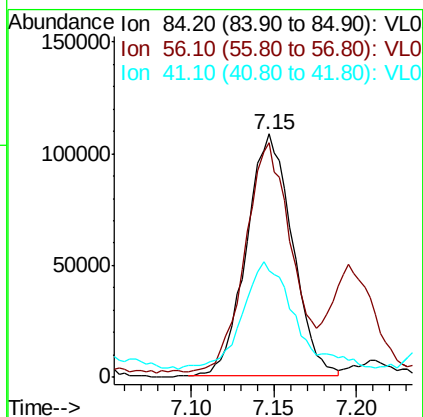
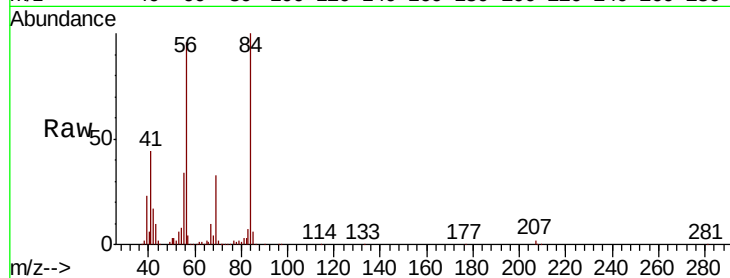




#30
Cvclohexane
Concen: 1.292 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. 0.01 min
Lab File: VL035452.D
Acq: 18 Aug 2020 21:48

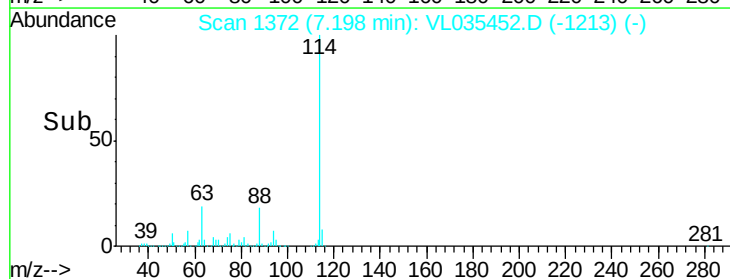
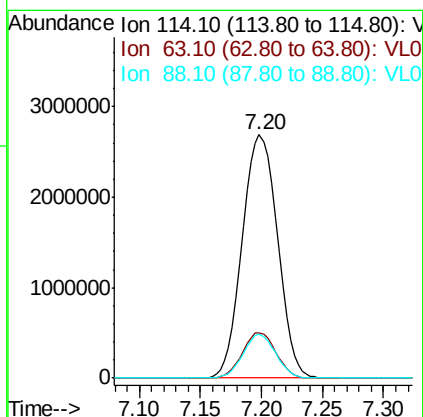
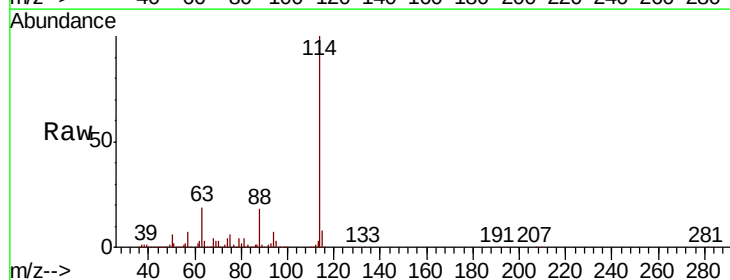
Instrument :
MSVOA_L
ClientSampled :

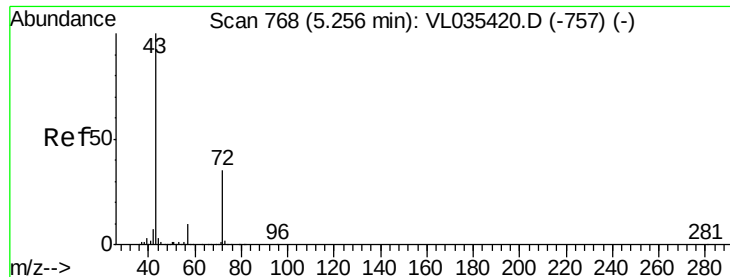
Tot Ion	Ratio	Lower	Upper
84	100		
56	93.1	114.9	172.3#
41	58.4	72.3	108.5#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1372
Delta R.T. 0.01 min
Lab File: VL035452.D
Acq: 18 Aug 2020 21:48

Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.7	23.1	34.7#
88	16.7	15.9	23.9

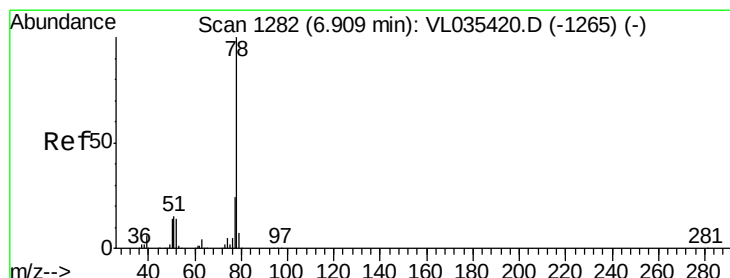
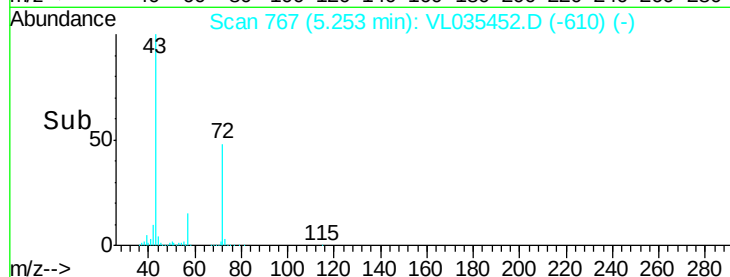
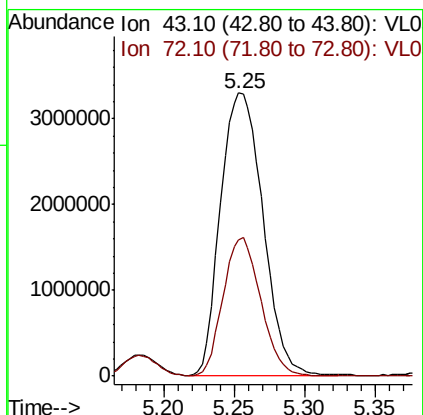
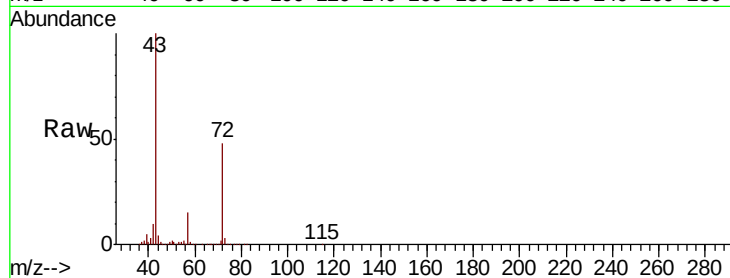




#34
2-Butanone
Concen: 38.318 ppbv
RT: 5.25 min Scan# 767
Delta R.T. 0.00 min
Lab File: VL035452.D
Acq: 18 Aug 2020 21:48

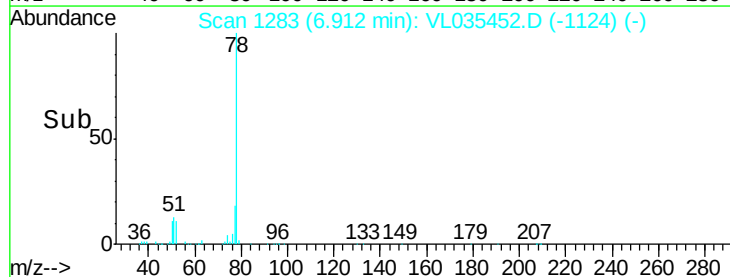
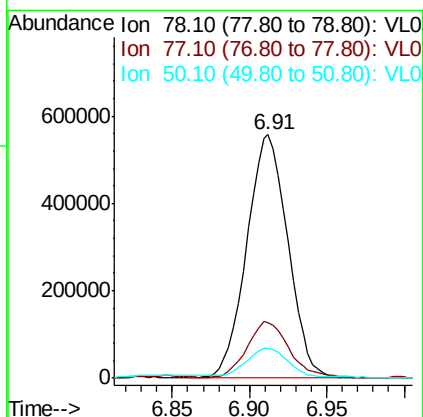
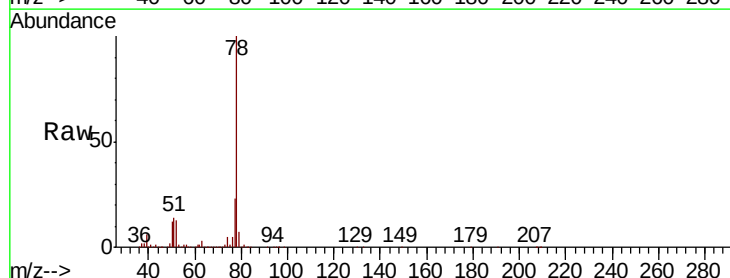
Instrument :
MSVOA_L
ClientSampleId :

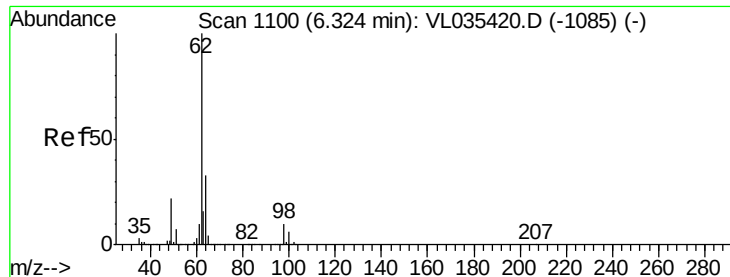
Tot Ion: 43 Resp: 6890187
Ion Ratio Lower Upper
43 100
72 44.0 17.6 26.4#



#36
Benzene
Concen: 2.597 ppbv
RT: 6.91 min Scan# 1283
Delta R.T. 0.01 min
Lab File: VL035452.D
Acq: 18 Aug 2020 21:48

Tgt Ion: 78 Resp: 1025924
Ion Ratio Lower Upper
78 100
77 22.0 19.6 29.4
50 11.4 16.3 24.5#

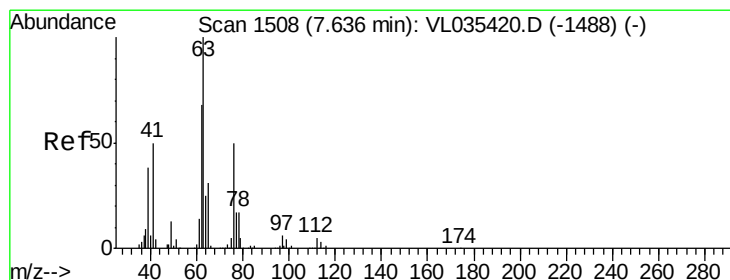
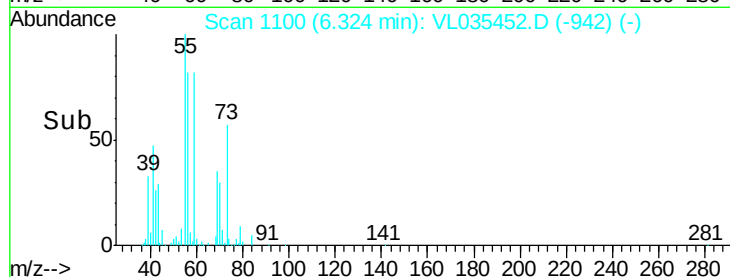
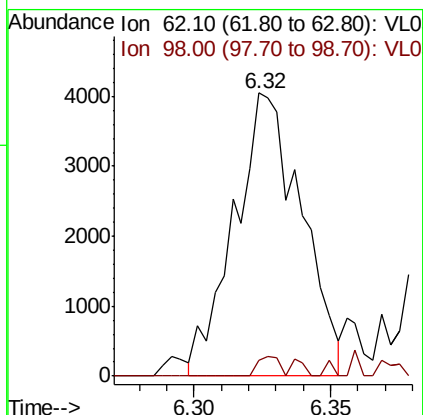
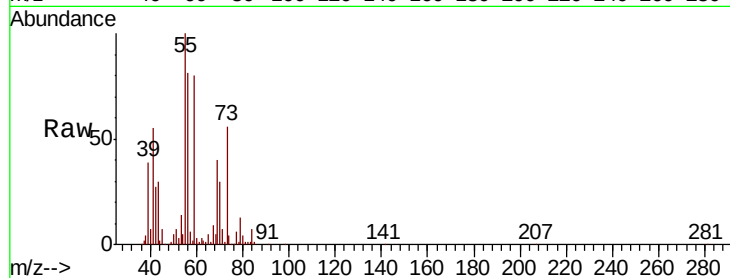




#37
 1,2-Dichloroethane
 Concen: 0.038 ppbv
 RT: 6.32 min Scan# 1100
 Delta R.T. 0.01 min
 Lab File: VL035452.D
 Acq: 18 Aug 2020 21:48

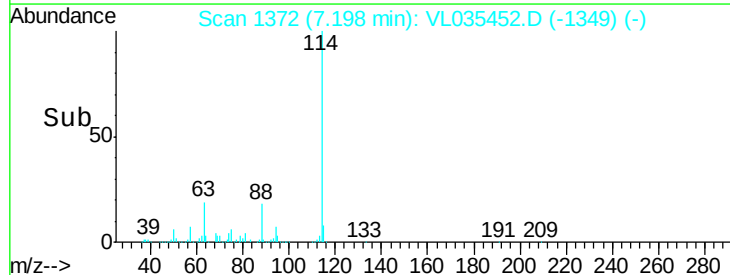
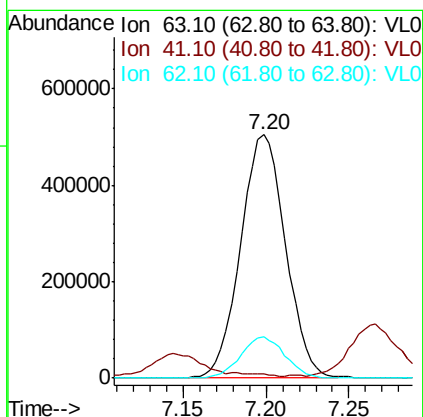
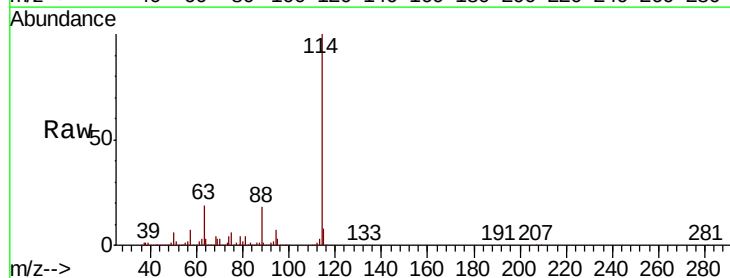
Instrument :
 MSVOA_L
 ClientSampleId :

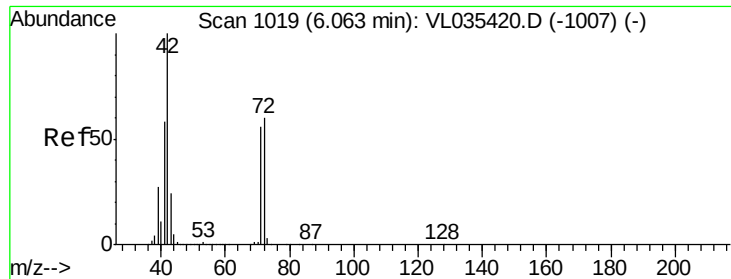
Tot Ion: 62 Resp: 6920
 Ion Ratio Lower Upper
 62 100
 98 4.0 4.6 7.0#



#39
 1,2-Dichloropropane
 Concen: 7.256 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. -0.43 min
 Lab File: VL035452.D
 Acq: 18 Aug 2020 21:48

Tgt Ion: 63 Resp: 944585
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.1 91.7#
 62 16.9 55.3 82.9#

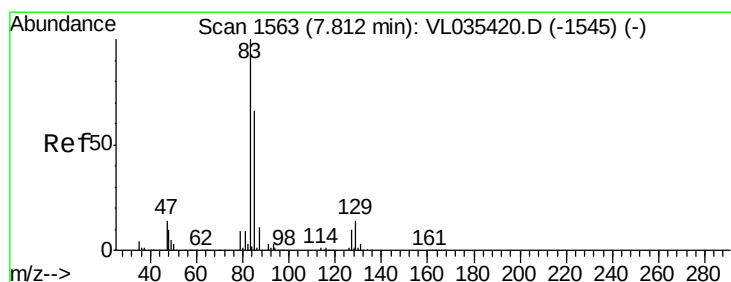
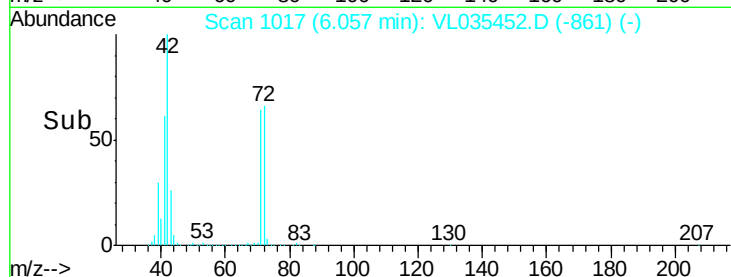
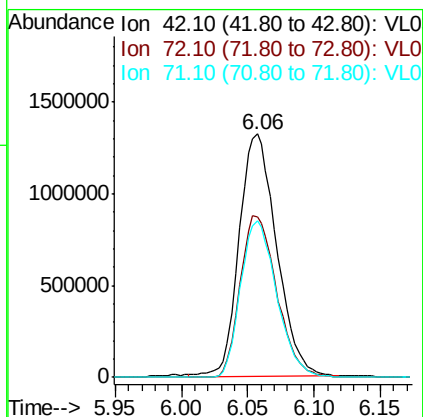
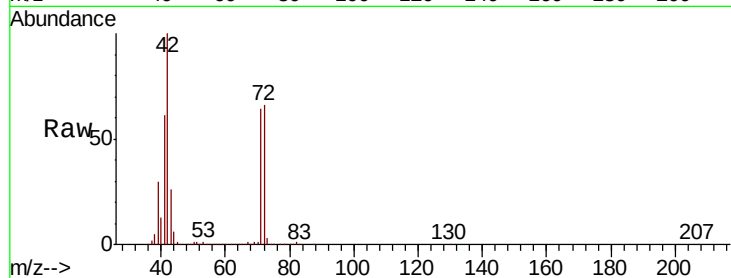




#41
Tetrahydrofuran
Concen: 26.100 ppbv
RT: 6.06 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VL035452.D
Acq: 18 Aug 2020 21:48

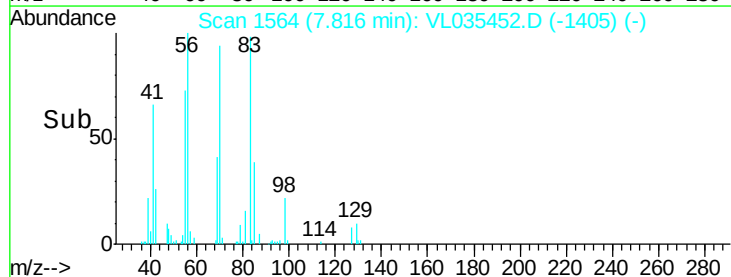
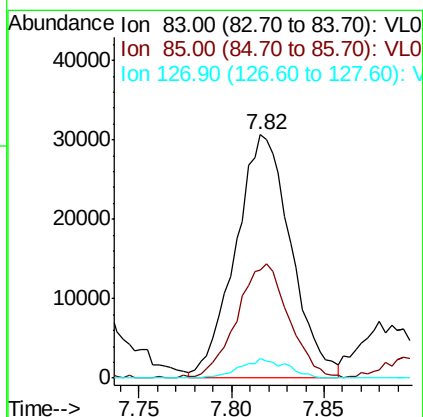
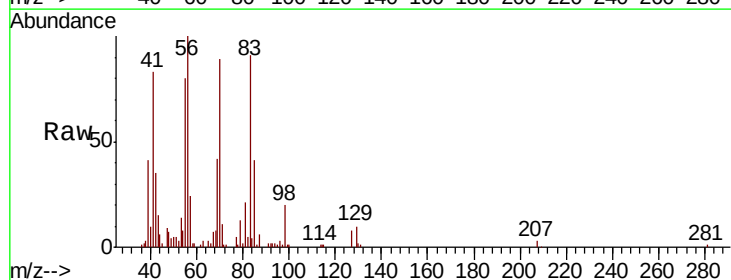
Instrument :
MSVOA_L
ClientSampleId :

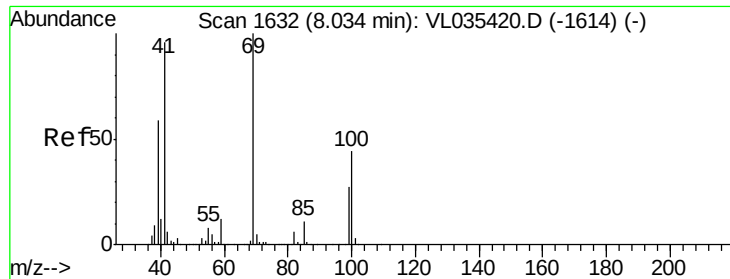
Tot Ion: 42 Resp: 2588820
Ion Ratio Lower Upper
42 100
72 65.8 29.4 44.2#
71 62.8 28.9 43.3#



#42
Bromodichloromethane
Concen: 0.211 ppbv
RT: 7.82 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VL035452.D
Acq: 18 Aug 2020 21:48

Tgt Ion: 83 Resp: 63728
Ion Ratio Lower Upper
83 100
85 44.9 54.8 82.2#
127 8.4 6.1 9.1

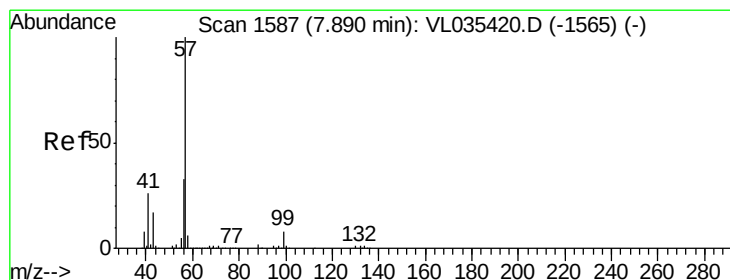
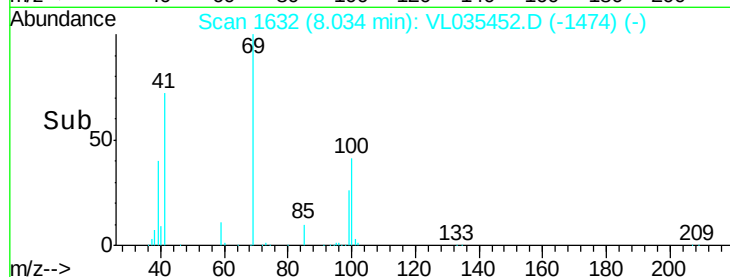
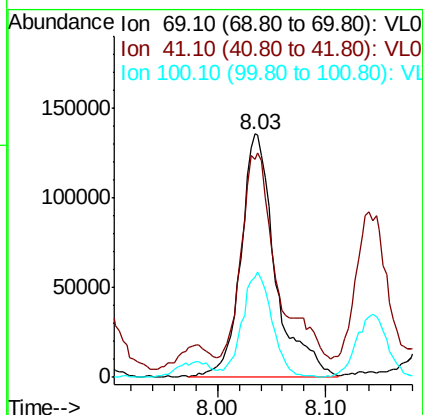
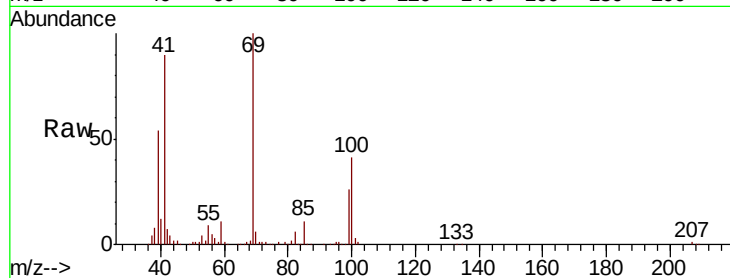




#43
Methyl Methacrylate
Concen: 1.932 ppbv
RT: 8.03 min Scan# 1632
Delta R.T. 0.01 min
Lab File: VL035452.D
Acq: 18 Aug 2020 21:48

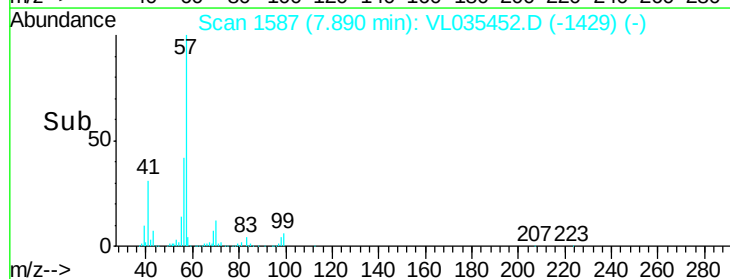
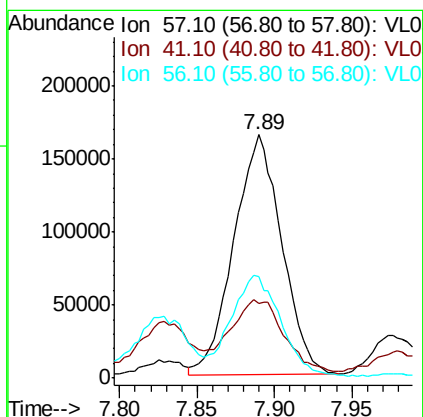
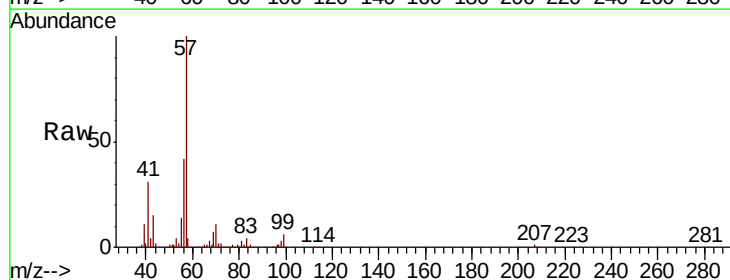
Instrument :
MSVOA_L
ClientSampleId :

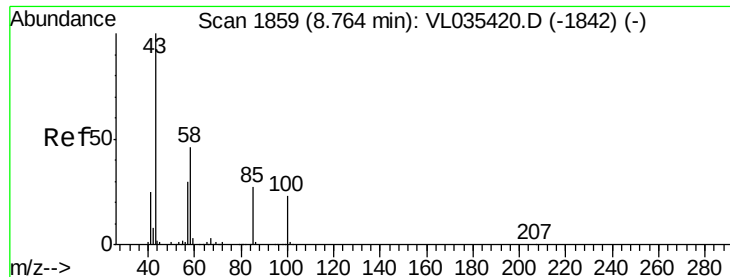
Tot Ion: 69 Resp: 298491
Ion Ratio Lower Upper
69 100
41 102.8 123.4 185.0#
100 37.9 24.2 36.4#



#44
2,2,4-Trimethylpentane
Concen: 0.686 ppbv
RT: 7.89 min Scan# 1587
Delta R.T. 0.01 min
Lab File: VL035452.D
Acq: 18 Aug 2020 21:48

Tgt Ion: 57 Resp: 353717
Ion Ratio Lower Upper
57 100
41 36.2 27.2 40.8
56 44.2 25.4 38.0#





#50

4-Methyl-2-Pentanone

Concen: 18.609 ppbv

RT: 8.76 min Scan# 1858

Delta R.T. 0.01 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Instrument :

MSVOA_L

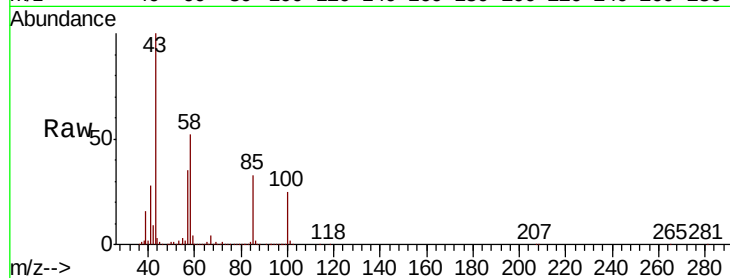
ClientSampleId :

Tot Ion: 43 Resp: 4800023

Ion Ratio Lower Upper

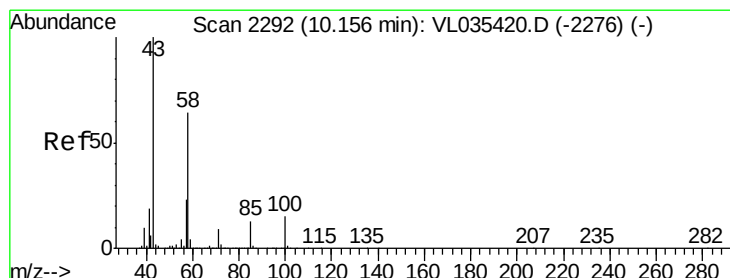
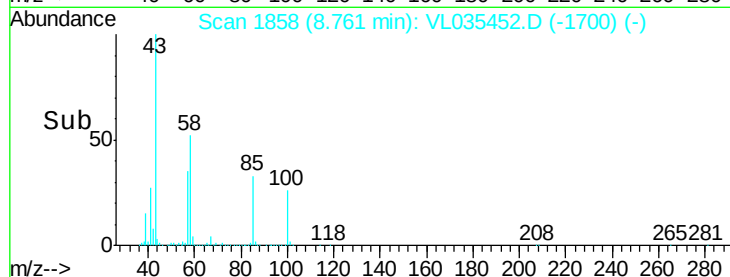
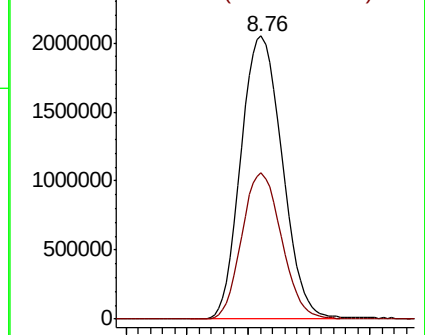
43 100

58 50.1 28.7 43.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#51

2-Hexanone

Concen: 3.583 ppbv

RT: 10.16 min Scan# 2292

Delta R.T. 0.01 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

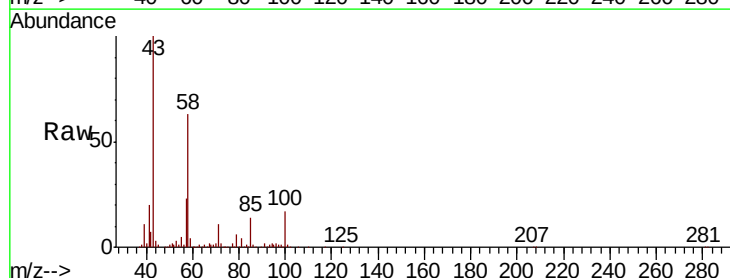
Tgt Ion: 43 Resp: 778923

Ion Ratio Lower Upper

43 100

58 64.0 38.6 58.0#

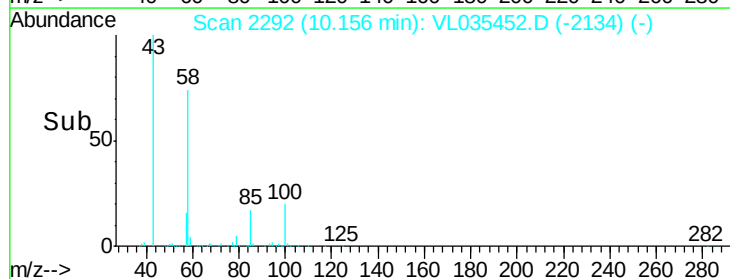
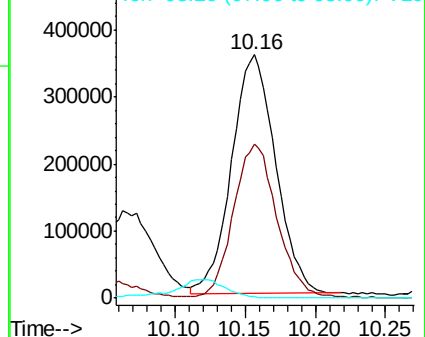
98 9.5 0.2 0.2#

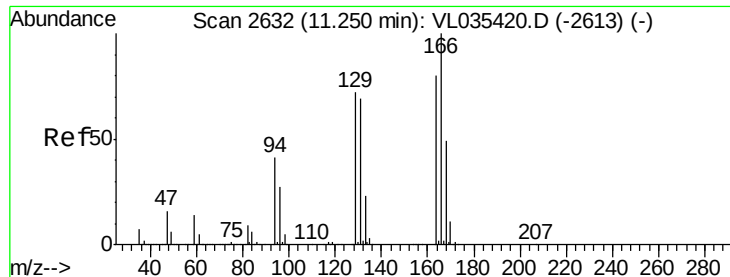


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0





#52

Tetrachloroethene

Concen: 0.210 ppbv

RT: 11.25 min Scan# 2632

Delta R.T. 0.01 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 50639

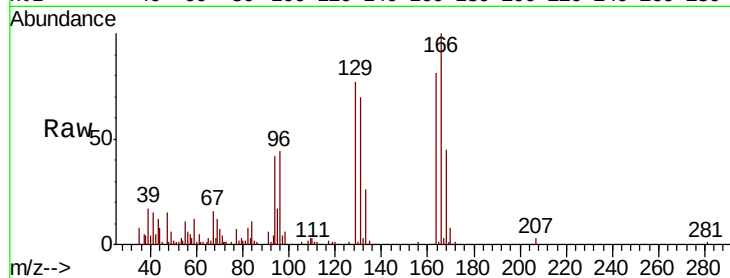
Ion Ratio Lower Upper

164 100

166 123.8 103.4 155.0

129 94.7 90.2 135.4

131 86.7 91.7 137.5#

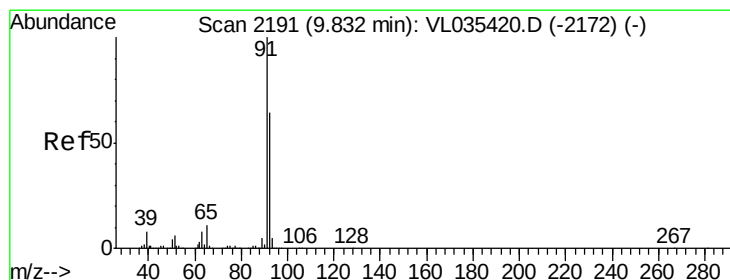
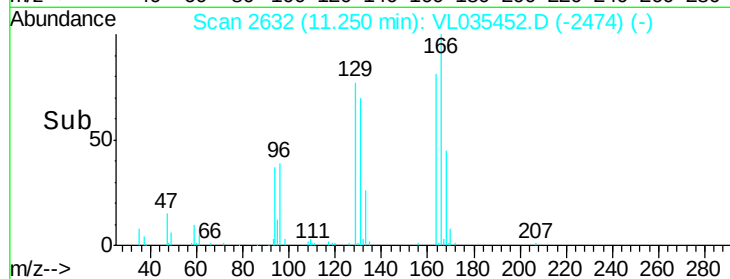
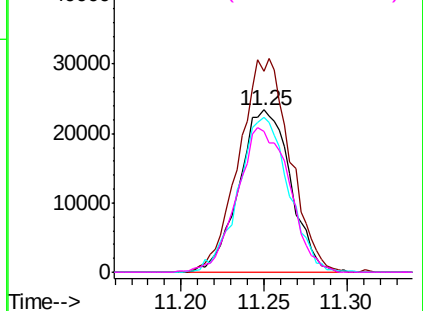


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 9.043 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.01 min

Lab File: VL035452.D

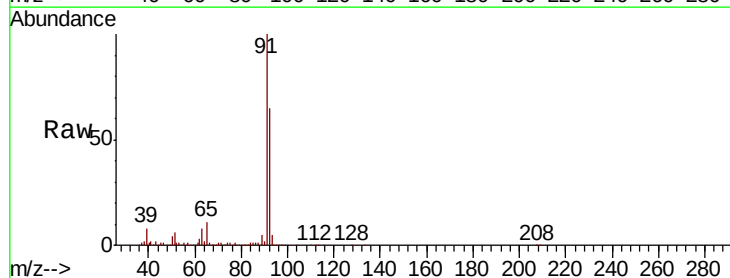
Acq: 18 Aug 2020 21:48

Tgt Ion: 91 Resp: 4600899

Ion Ratio Lower Upper

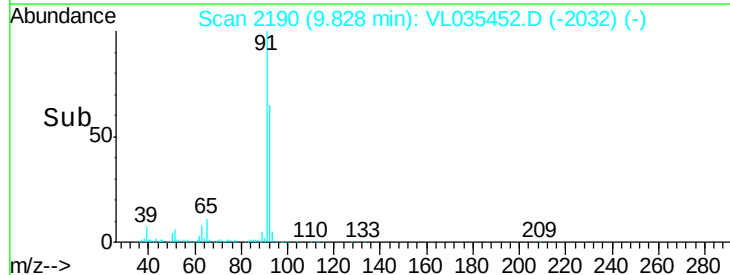
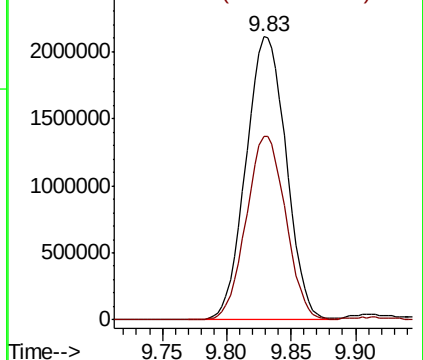
91 100

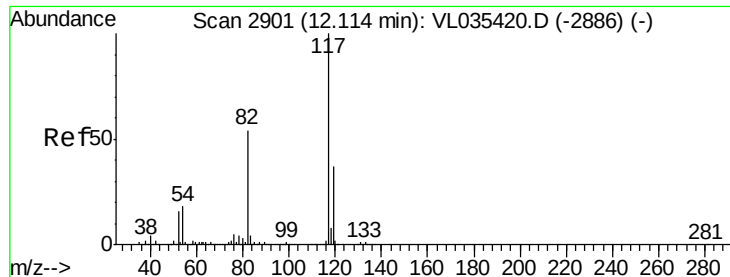
92 63.4 49.1 73.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

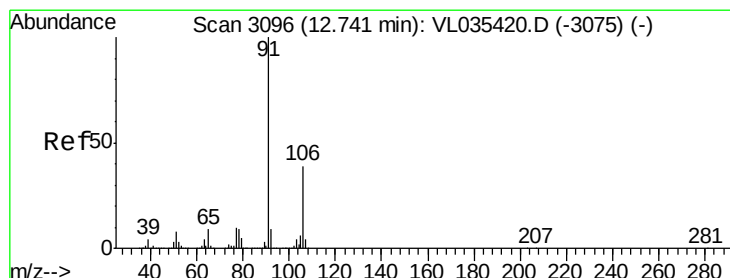
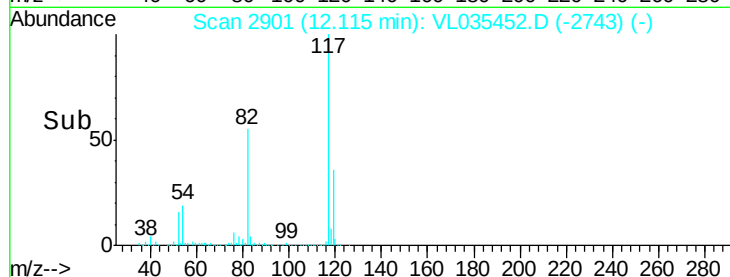
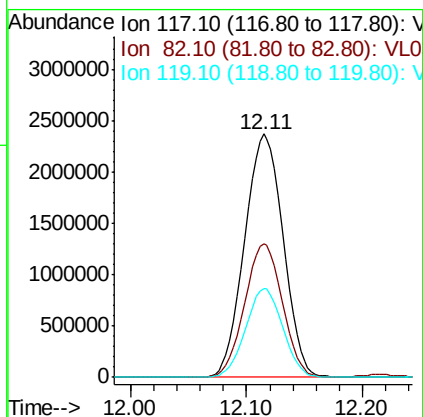
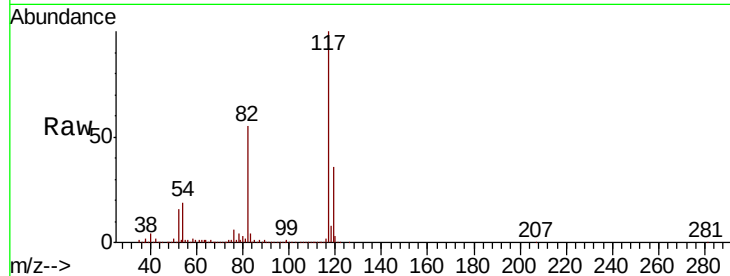




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. 0.01 min
Lab File: VL035452.D
Acq: 18 Aug 2020 21:48

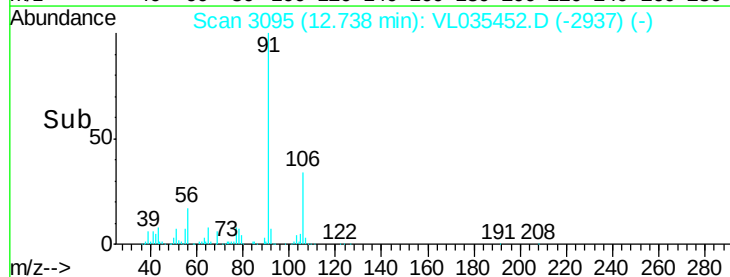
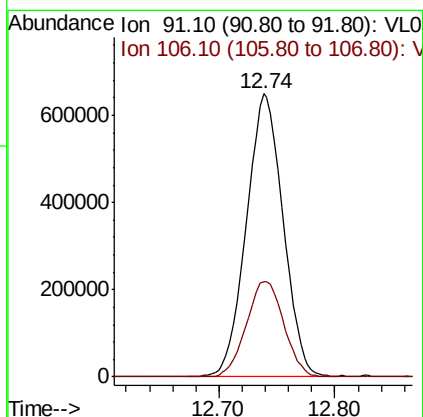
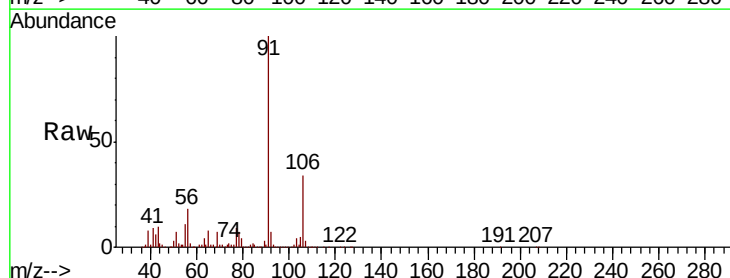
Instrument :
MSVOA_L
ClientSampleId :

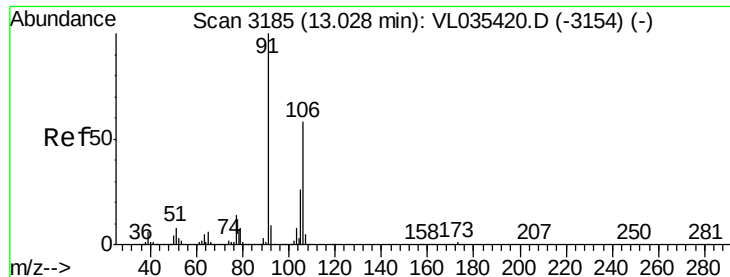
Tot Ion:117 Resp: 5488377
Ion Ratio Lower Upper
117 100
82 53.5 57.4 86.0#
119 35.3 28.4 42.6



#58
Ethyl Benzene
Concen: 2.146 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. 0.01 min
Lab File: VL035452.D
Acq: 18 Aug 2020 21:48

Tgt Ion: 91 Resp: 1421662
Ion Ratio Lower Upper
91 100
106 33.9 24.1 36.1





#59

m/p-Xylene

Concen: 7.124 ppbv

RT: 13.00 min Scan# 3175

Delta R.T. -0.03 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Instrument :

MSVOA_L

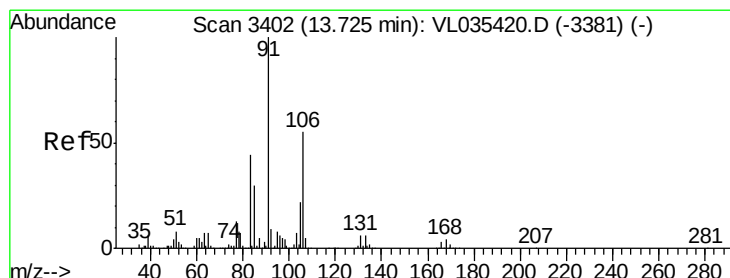
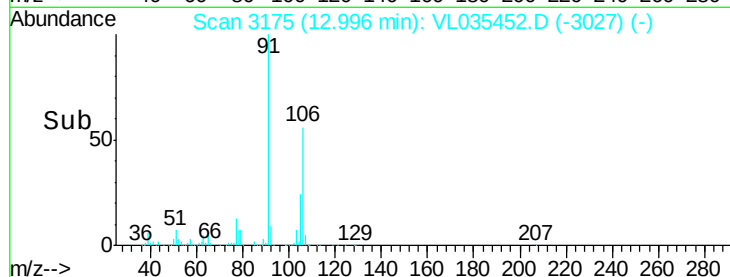
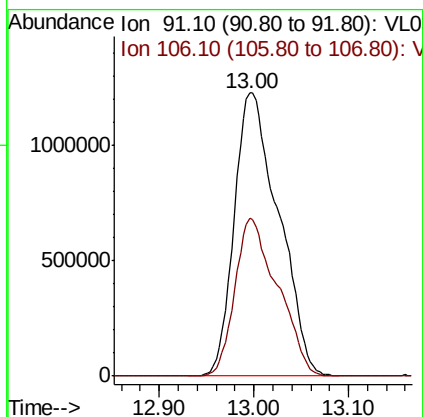
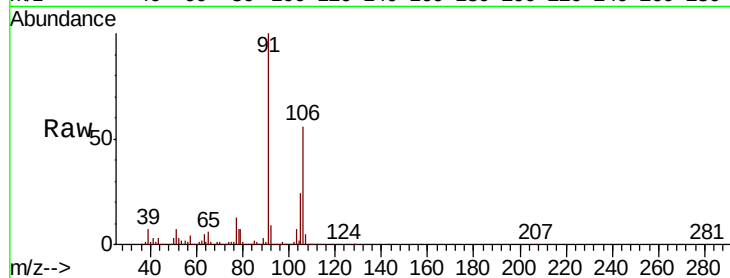
ClientSampleId :

Tot Ion: 91 Resp: 3989795

Ion Ratio Lower Upper

91 100

106 53.9 34.0 51.0#



#60

o-Xylene

Concen: 2.904 ppbv

RT: 13.72 min Scan# 3401

Delta R.T. 0.01 min

Lab File: VL035452.D

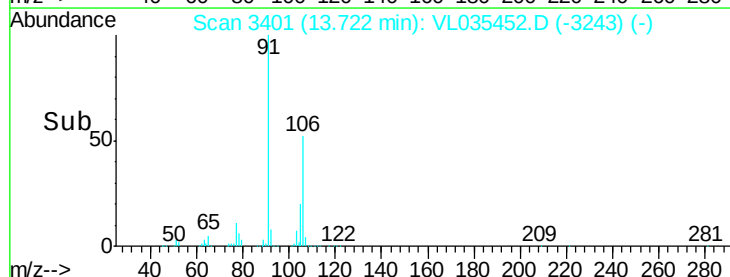
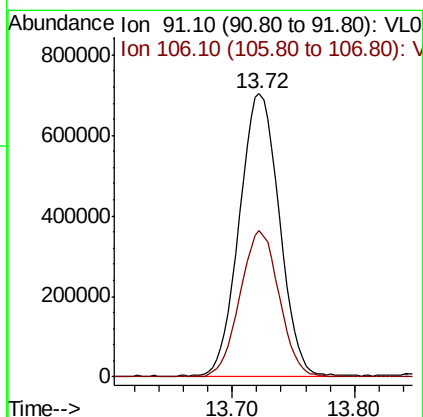
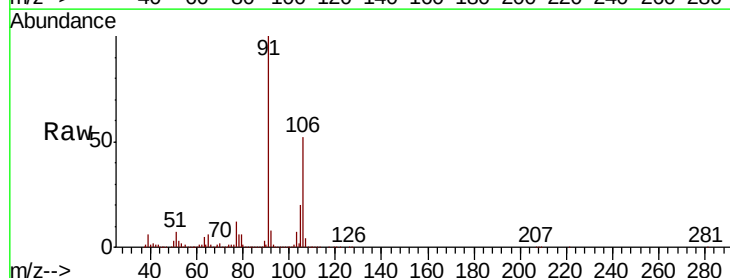
Acq: 18 Aug 2020 21:48

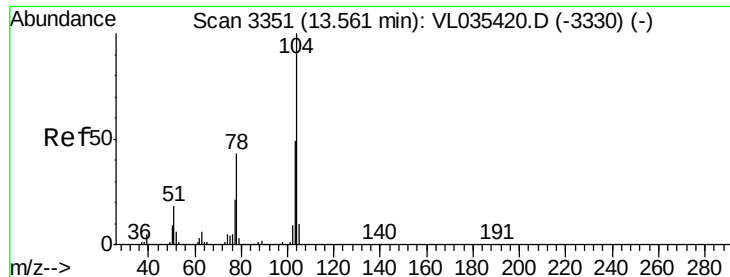
Tgt Ion: 91 Resp: 1580522

Ion Ratio Lower Upper

91 100

106 51.2 21.8 65.3





#61

Stvrene

Concen: 0.691 ppbv

RT: 13.56 min Scan# 3351

Delta R.T. 0.01 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Instrument :

MSVOA_L

ClientSampleId :

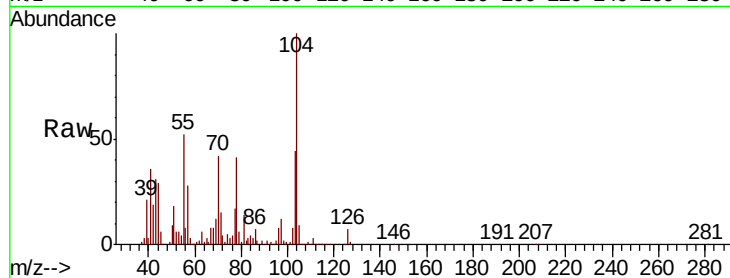
Tot Ion:104 Resp: 304133

Ion Ratio Lower Upper

104 100

78 40.7 45.4 68.2#

103 46.1 37.8 56.8



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

13.56

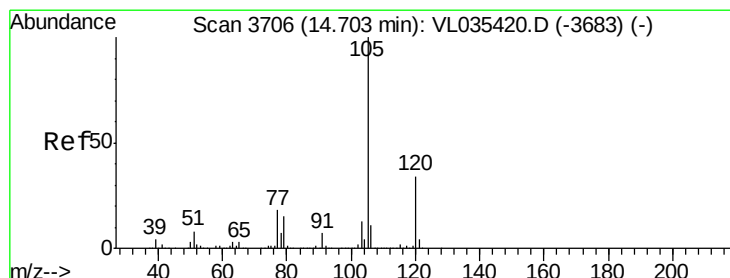
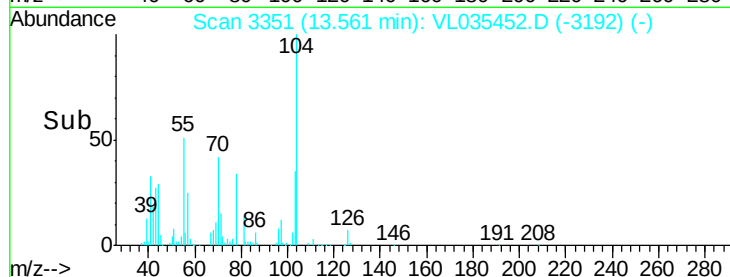
150000

100000

50000

0

Time--> 13.45 13.50 13.55 13.60



#62

Isopropylbenzene

Concen: 0.255 ppbv

RT: 14.70 min Scan# 3705

Delta R.T. 0.01 min

Lab File: VL035452.D

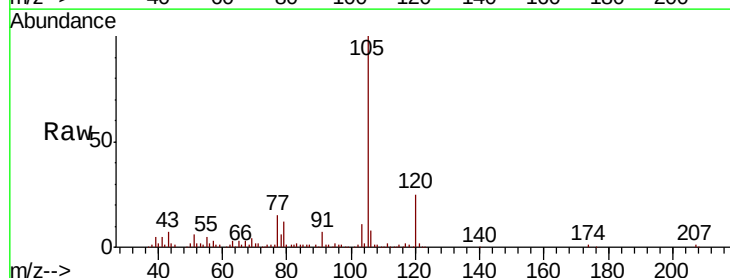
Acq: 18 Aug 2020 21:48

Tgt Ion:105 Resp: 227216

Ion Ratio Lower Upper

105 100

120 27.4 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.70

120000

100000

80000

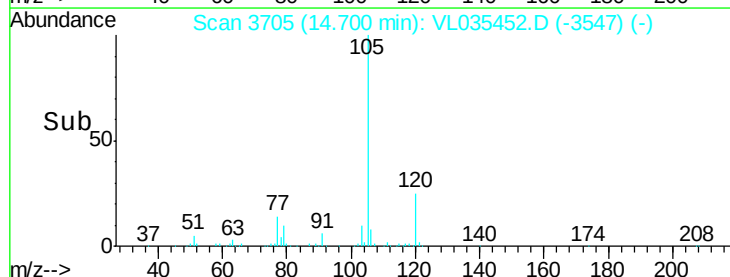
60000

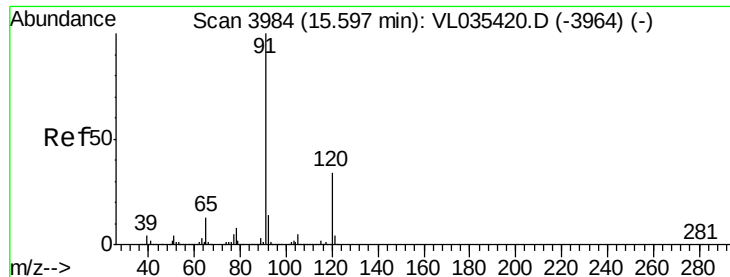
40000

20000

0

Time--> 14.60 14.70 14.80





#64

n-propylbenzene

Concen: 0.393 ppbv

RT: 15.60 min Scan# 3984

Delta R.T. 0.01 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Instrument :

MSVOA_L

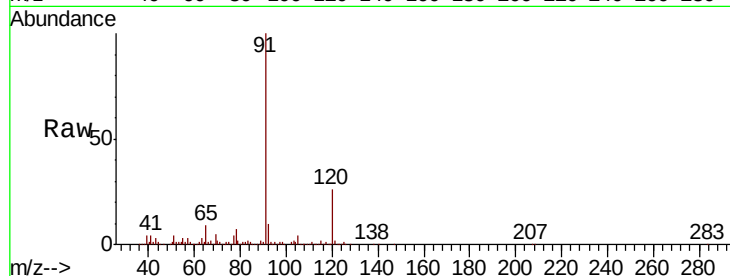
ClientSampled :

Tot Ion:120 Resp: 108058

Ion Ratio Lower Upper

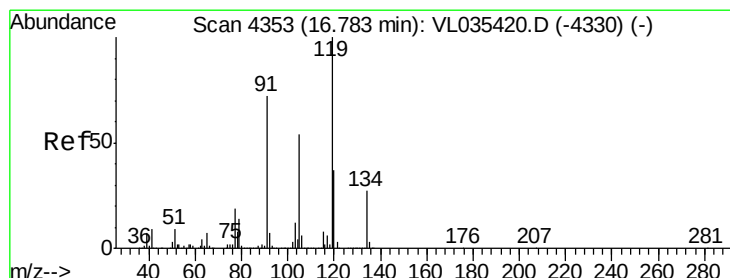
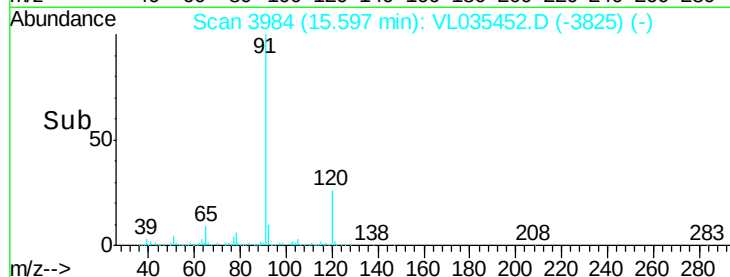
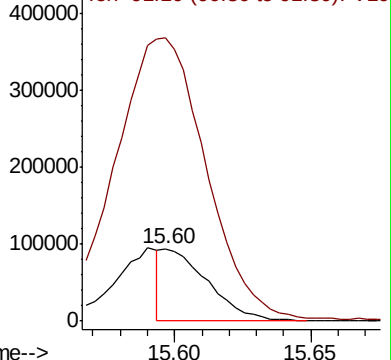
120 100

91 795.2 385.5 578.3#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.570 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. 0.03 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

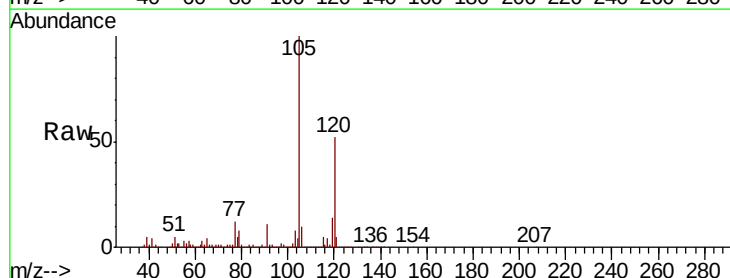
Tgt Ion:119 Resp: 494281

Ion Ratio Lower Upper

119 100

91 86.1 72.0 108.0

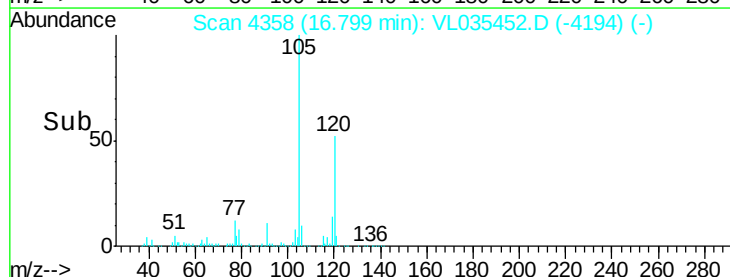
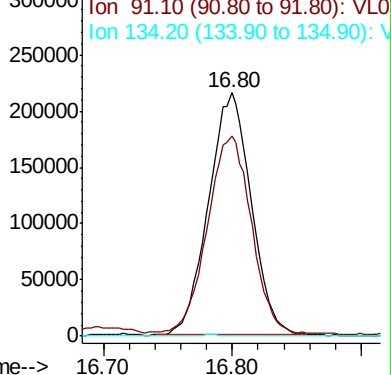
134 0.6 15.7 23.5#

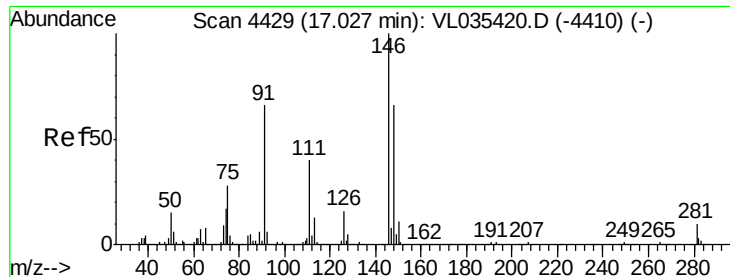


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

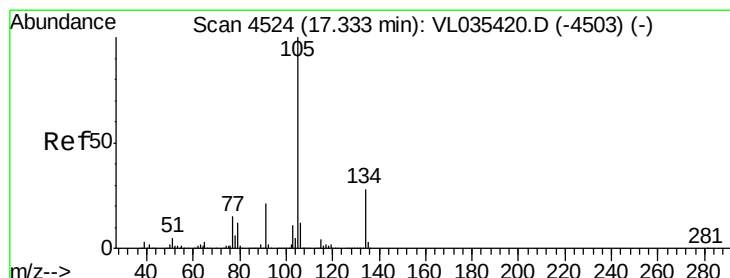
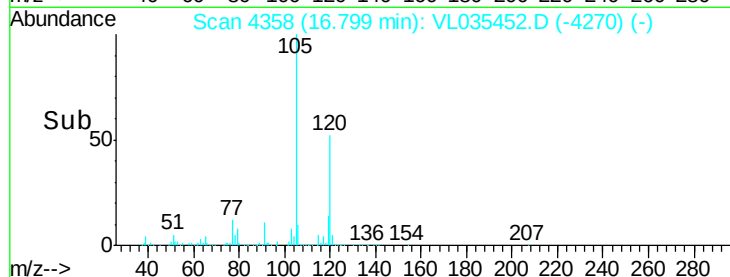
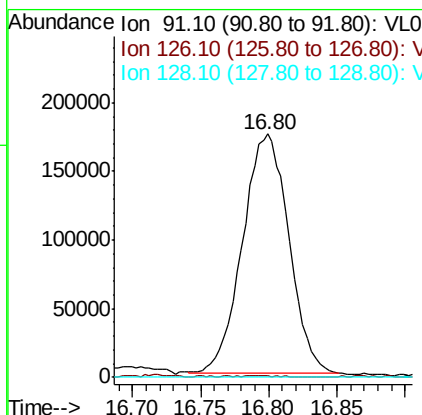
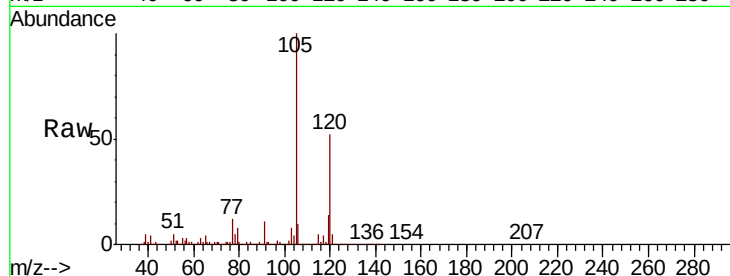




#66
Benzyl Chloride
Concen: 1.966 ppbv
RT: 16.80 min Scan# 4358
Delta R.T. -0.22 min
Lab File: VL035452.D
Acq: 18 Aug 2020 21:48

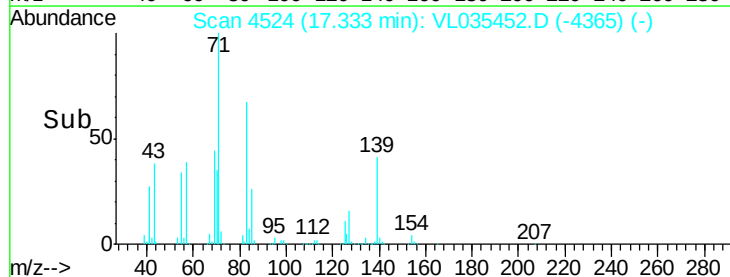
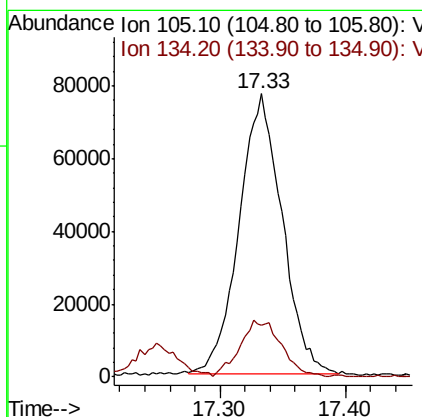
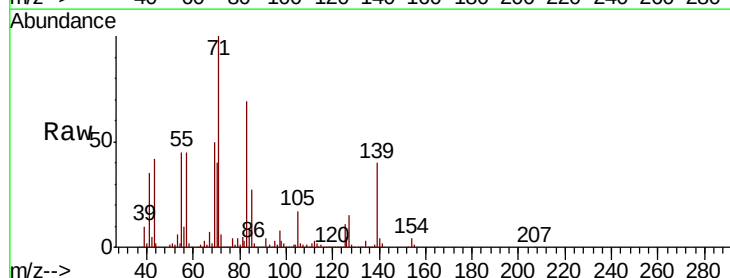
Instrument :
MSVOA_L
ClientSampleId :

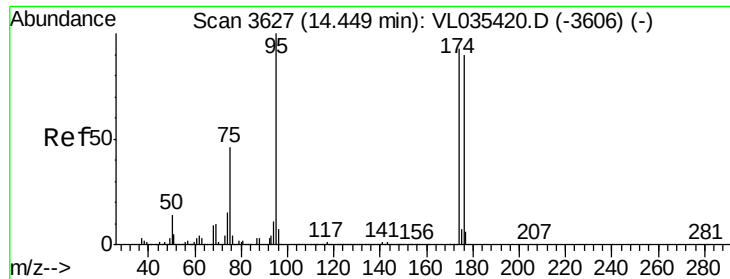
Tot Ion: 91 Resp: 410034
Ion Ratio Lower Upper
91 100
126 1.0 13.3 19.9#
128 0.0 4.1 6.1#



#67
sec-Butylbenzene
Concen: 0.160 ppbv
RT: 17.33 min Scan# 4524
Delta R.T. 0.01 min
Lab File: VL035452.D
Acq: 18 Aug 2020 21:48

Tgt Ion: 105 Resp: 182084
Ion Ratio Lower Upper
105 100
134 19.8 14.1 21.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.540 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. 0.01 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Instrument :

MSVOA_L

ClientSampleId :

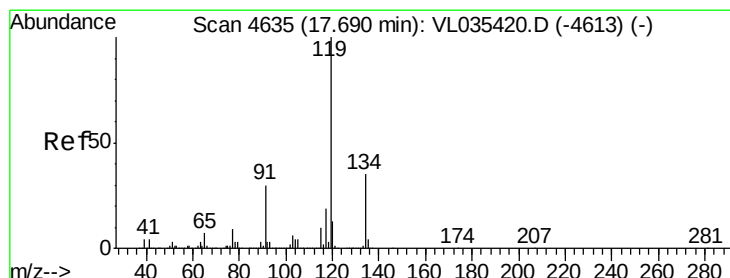
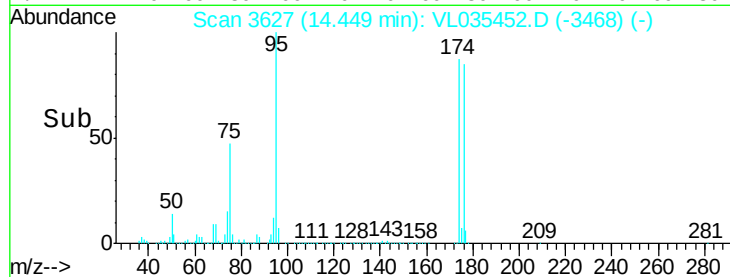
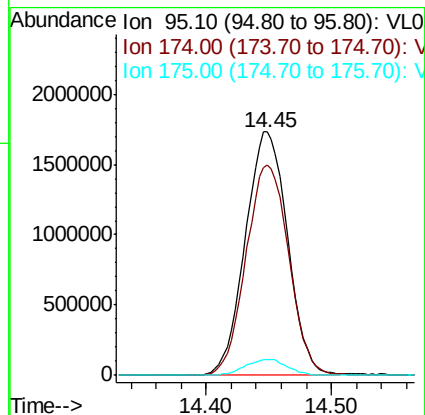
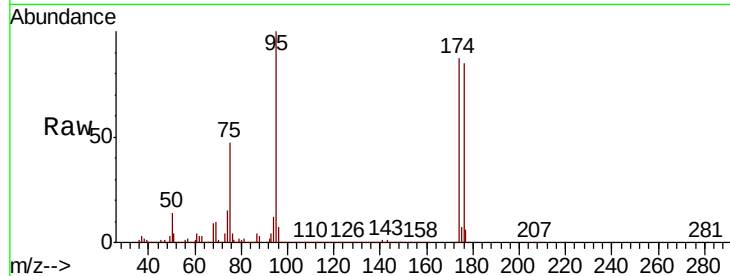
Tot Ion: 95 Resp: 4049917

Ion Ratio Lower Upper

95 100

174 88.3 44.0 66.0#

175 6.5 3.2 4.8#



#69

p-Isopropyltoluene

Concen: 0.310 ppbv

RT: 17.69 min Scan# 4636

Delta R.T. 0.01 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

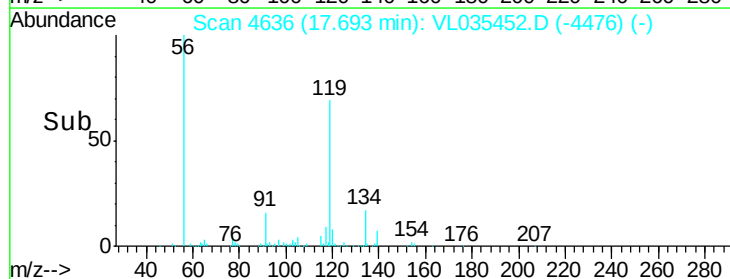
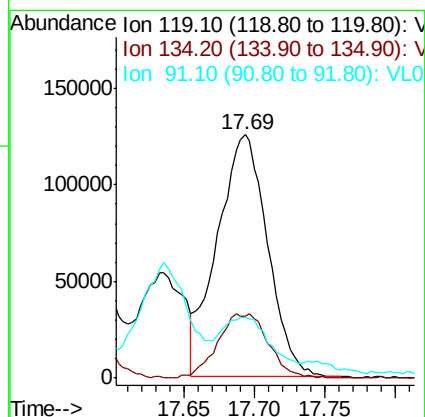
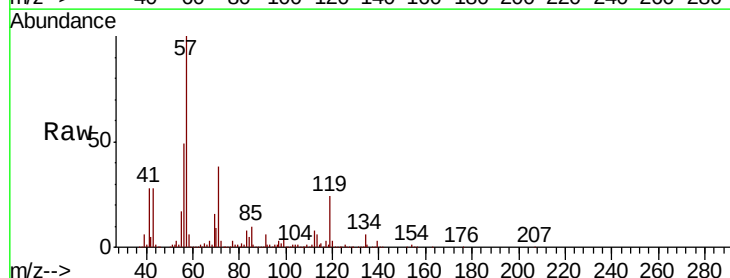
Tgt Ion: 119 Resp: 313796

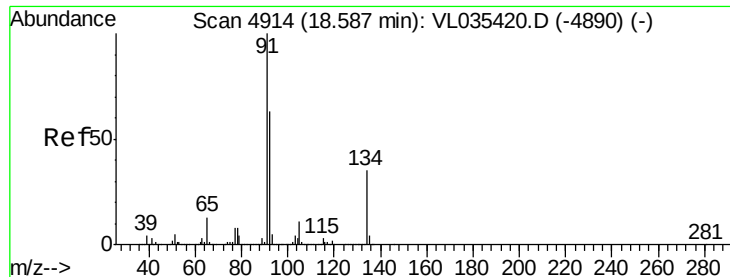
Ion Ratio Lower Upper

119 100

134 26.7 20.6 30.8

91 26.9 26.6 39.8

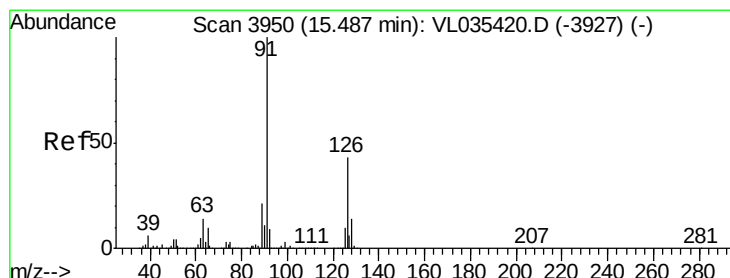
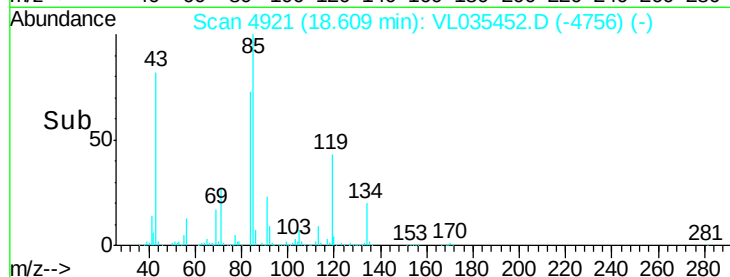
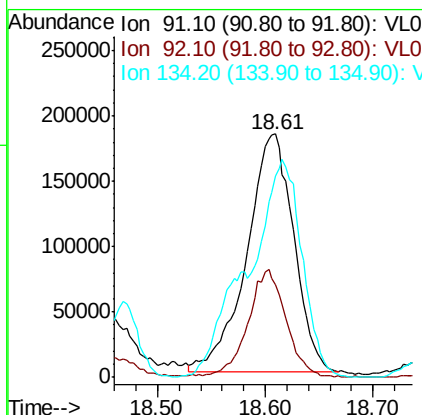
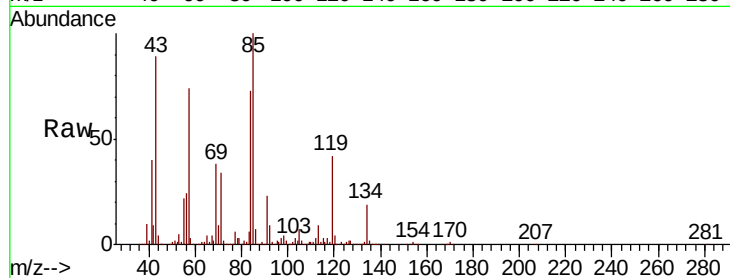




#70
n-Butylbenzene
Concen: 0.574 ppbv
RT: 18.61 min Scan# 4921
Delta R.T. 0.03 min
Lab File: VL035452.D
Acq: 18 Aug 2020 21:48

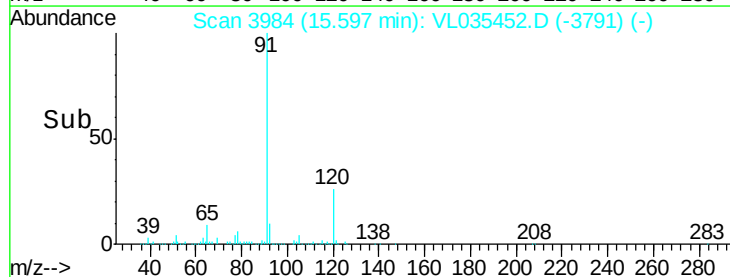
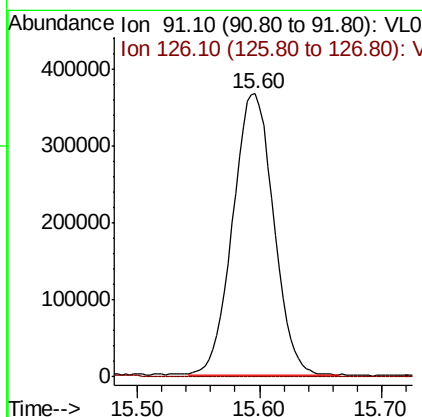
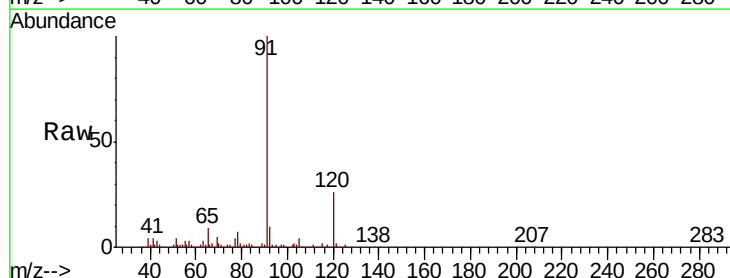
Instrument :
MSVOA_L
ClientSampled :

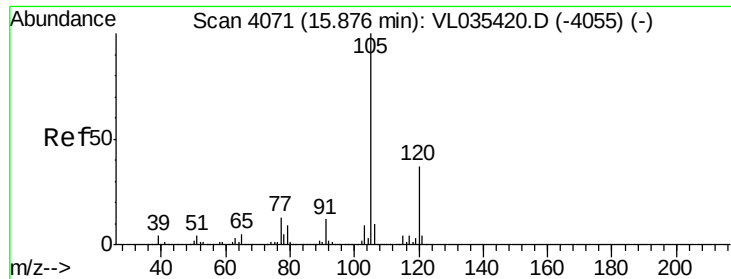
Tot Ion: 91 Resp: 549131
Ion Ratio Lower Upper
91 100
92 37.0 44.8 67.2#
134 106.5 17.3 25.9#



#71
2-Chlorotoluene
Concen: 1.304 ppbv
RT: 15.60 min Scan# 3984
Delta R.T. 0.12 min
Lab File: VL035452.D
Acq: 18 Aug 2020 21:48

Tgt Ion: 91 Resp: 843878
Ion Ratio Lower Upper
91 100
126 0.6 11.4 45.6#





#72

4-Ethyltoluene

Concen: 1.652 ppbv

RT: 15.87 min Scan# 4070

Delta R.T. 0.01 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105 Resp: 1179764

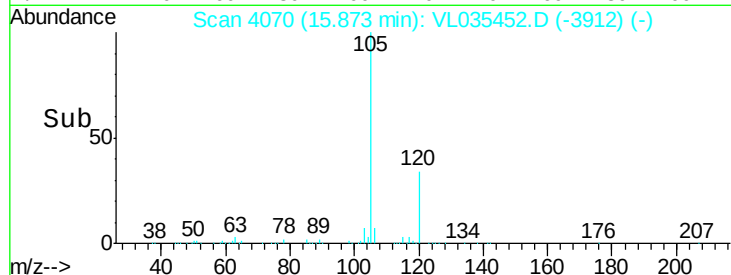
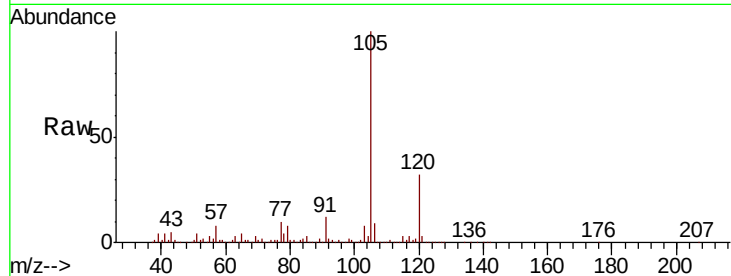
Ion Ratio Lower Upper

105 100

120 33.3 22.7 34.1

91 11.0 10.8 16.2

77 10.9 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

Time-->

15.80 15.85 15.90 15.95

1500000

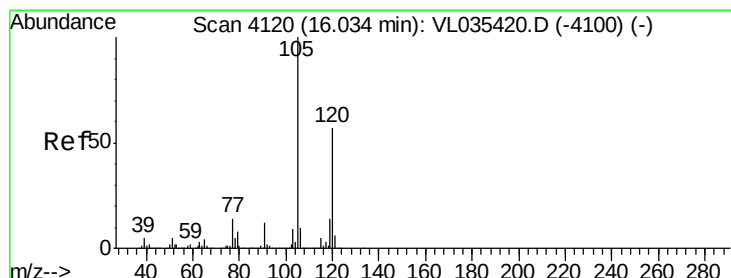
1000000

500000

0

15.80 15.85 15.90 15.95

15.87



#73

1,3,5-Trimethylbenzene

Concen: 1.732 ppbv

RT: 16.03 min Scan# 4120

Delta R.T. 0.01 min

Lab File: VL035452.D

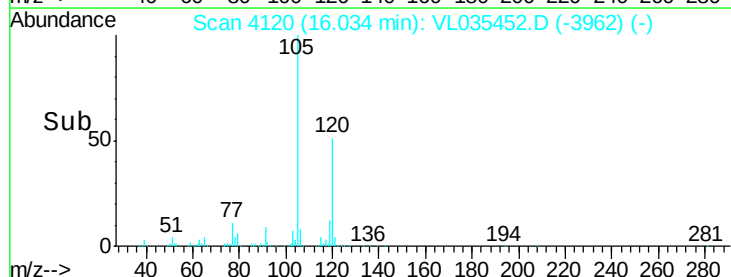
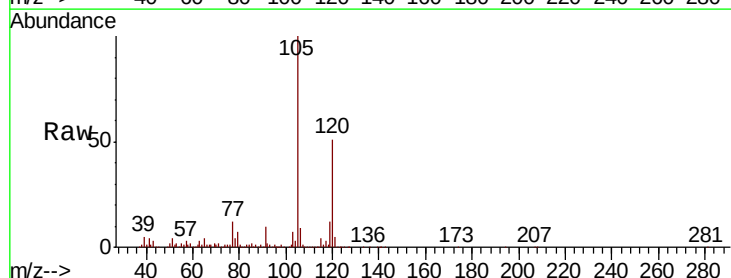
Acq: 18 Aug 2020 21:48

Tgt Ion:105 Resp: 1151521

Ion Ratio Lower Upper

105 100

120 50.8 35.6 53.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Time-->

16.00 16.10

500000

400000

300000

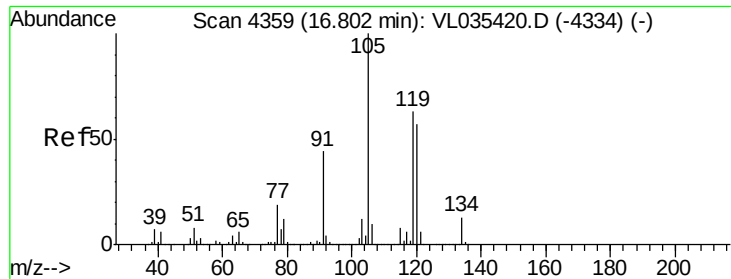
200000

100000

0

16.00 16.10

16.03



#74

1,2,4-Trimethylbenzene

Concen: 5.382 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. 0.01 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105 Resp: 3887158

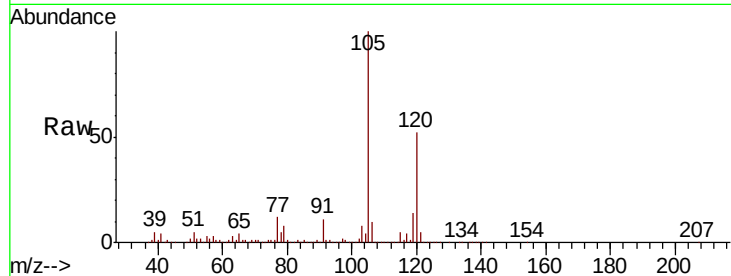
Ion Ratio Lower Upper

105 100

120 51.6 37.8 56.8

91 11.0 40.0 60.0#

77 12.3 18.8 28.2#

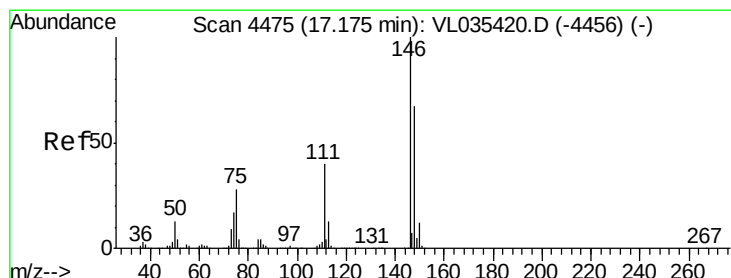
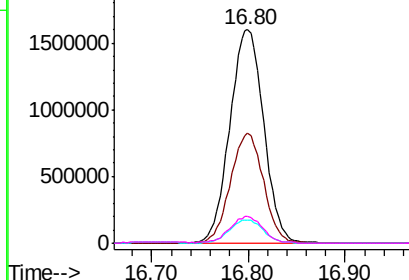
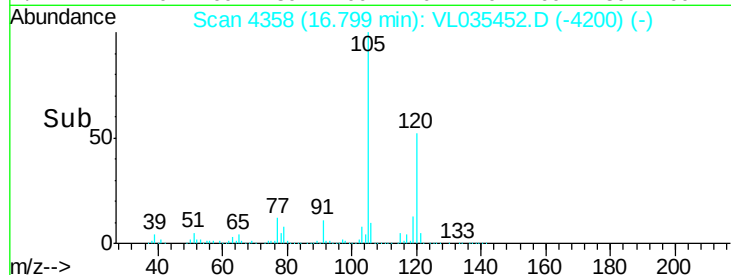


Abundance Ion 105.10 (104.80 to 105.80): V

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



#76

1,4-Dichlorobenzene

Concen: 0.032 ppbv

RT: 17.18 min Scan# 4475

Delta R.T. 0.01 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

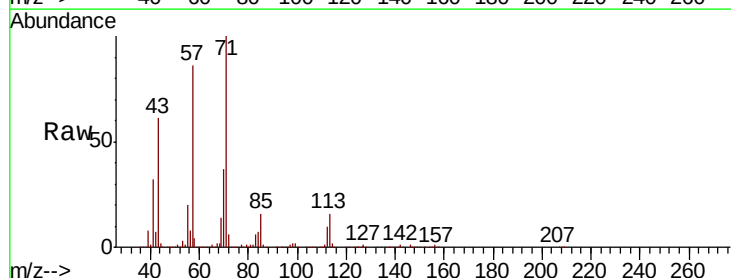
Tgt Ion:146 Resp: 17606

Ion Ratio Lower Upper

146 100

111 164.4 24.8 74.4#

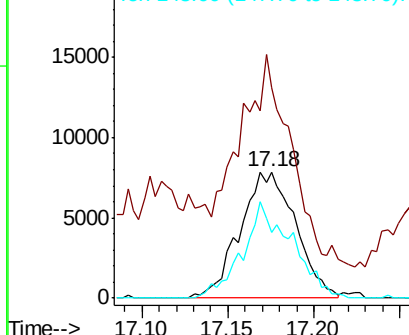
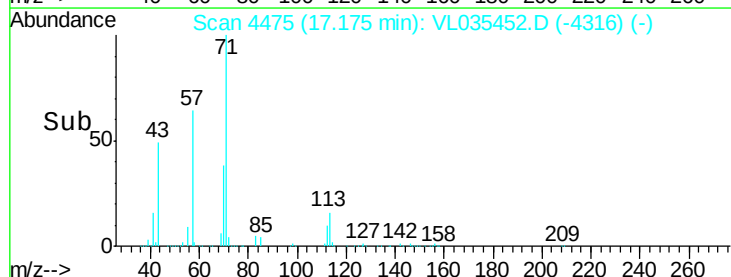
148 67.1 32.1 96.3

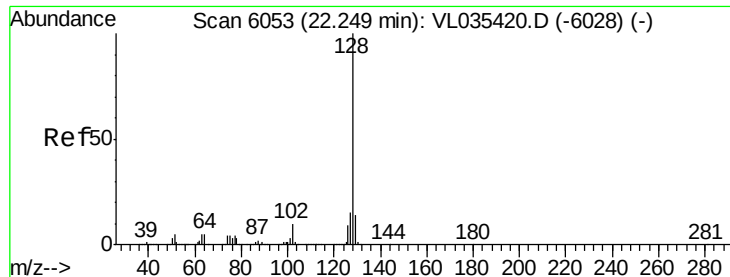


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#79

Naphthalene

Concen: 1.237 ppbv

RT: 22.26 min Scan# 6055

Delta R.T. 0.02 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

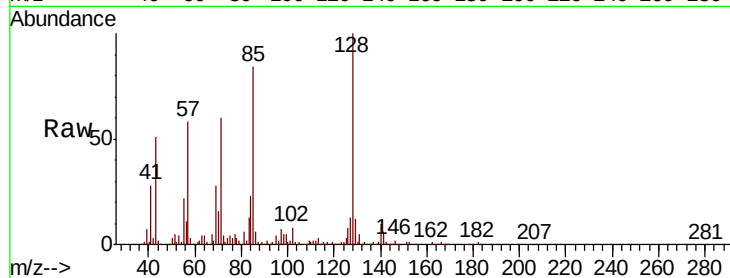
Instrument :

MSVOA_L

ClientSampled :

Tot Ion:128 Resp: 1257597

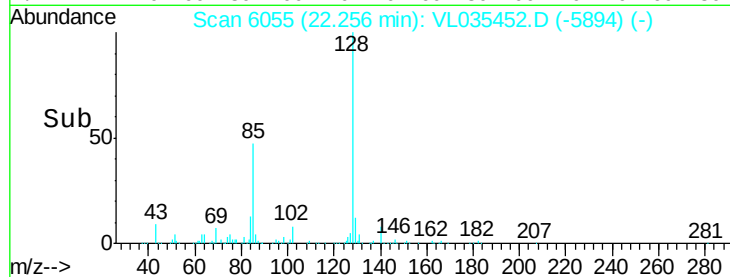
Ion	Ratio	Lower	Upper
128	100		
127	12.6	11.4	17.0
129	11.9	9.5	14.3



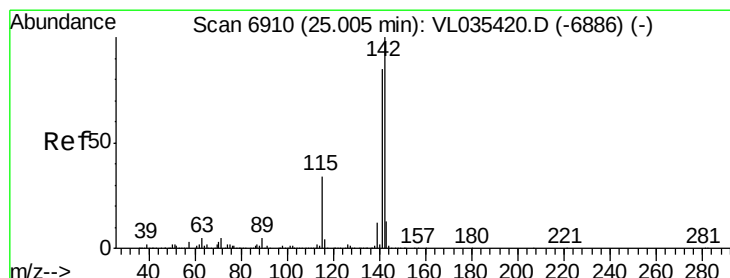
Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



Time-->



#80

Naphthalene, 2-methyl-

Concen: 1.015 ppbv

RT: 25.01 min Scan# 6911

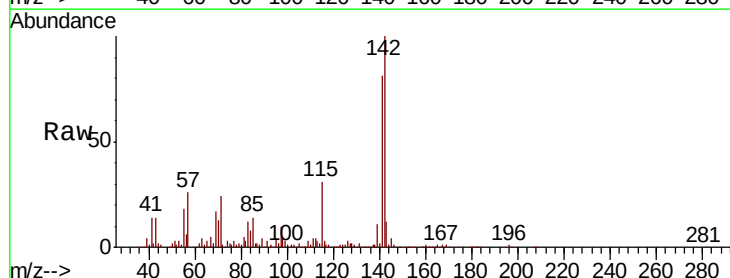
Delta R.T. 0.01 min

Lab File: VL035452.D

Acq: 18 Aug 2020 21:48

Tgt Ion:142 Resp: 426796

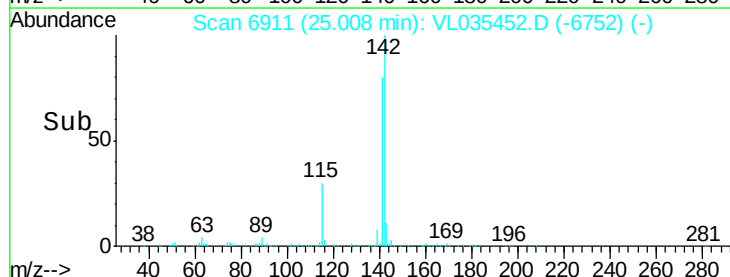
Ion	Ratio	Lower	Upper
142	100		
141	84.8	67.1	100.7
115	38.3	36.1	54.1



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V



Time-->