

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081820\
 Data File : VL035454.D
 Acq On : 18 Aug 2020 23:04
 Operator : SY/AP
 Sample : L3725-04DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 19 02:46:15 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	5.68	49	1148404	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	5334316	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5288762	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	3829289	10.34	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

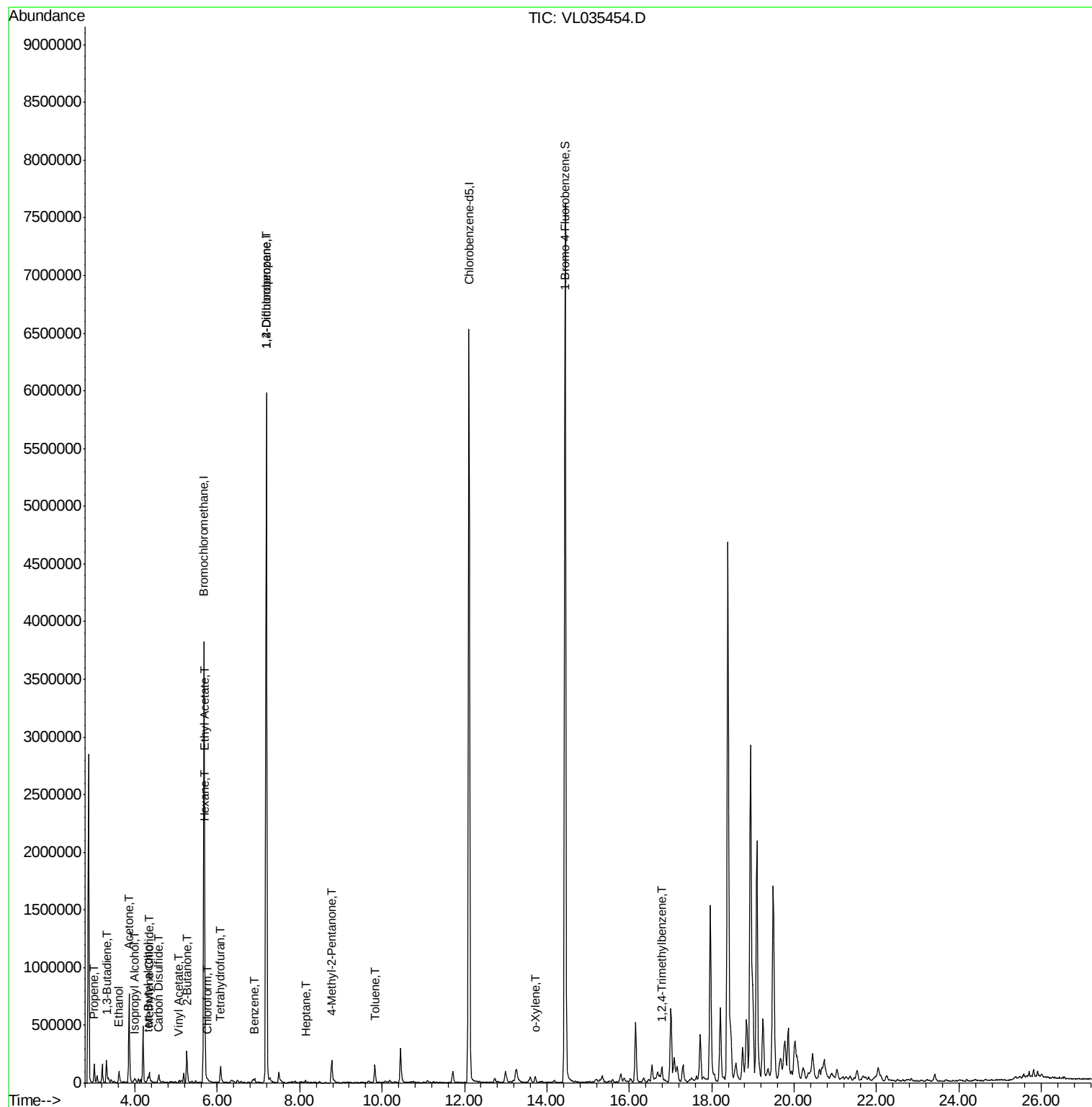
Target Compounds					Ovalue
9) Propene	3.01	41	65005	1.123 ppbv	95
10) Heptane	8.14	43	4764	0.031 ppbv #	28
13) Ethanol	3.61	45	104854	4.945 ppbv	96
15) Acetone	3.86	43	697688	5.278 ppbv #	79
16) 1,3-Butadiene	3.31	39	57849	1.079 ppbv #	45
17) tert-Butyl alcohol	4.31	59	38748	0.227 ppbv	100
19) Isopropyl Alcohol	3.98	45	14954	0.164 ppbv #	97
20) Methylene Chloride	4.35	84	39060	0.366 ppbv #	62
23) Vinyl Acetate	5.07	43	8373	0.044 ppbv #	59
25) Ethyl Acetate	5.70	43	16989	0.066 ppbv #	90
26) Hexane	5.70	57	27213	0.187 ppbv #	37
27) Carbon Disulfide	4.56	76	20857	0.099 ppbv #	92
29) Chloroform	5.76	83	8905	0.031 ppbv	99
34) 2-Butanone	5.26	43	276552	1.552 ppbv #	69
36) Benzene	6.90	78	30616	0.078 ppbv #	92
39) 1,2-Dichloropropane	7.19	63	929564	7.204 ppbv #	23
41) Tetrahydrofuran	6.08	42	70200	0.714 ppbv #	47
50) 4-Methyl-2-Pentanone	8.78	43	133807	0.523 ppbv #	78
53) Toluene	9.83	91	137044	0.272 ppbv	95
60) o-Xylene	13.72	91	23648	0.045 ppbv #	35
74) 1,2,4-Trimethylbenzene	16.79	105	99089	0.142 ppbv #	71

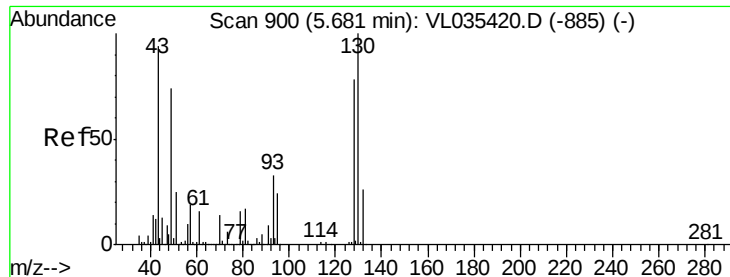
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.00 min

Lab File: VL035454.D

Acq: 18 Aug 2020 23:04

Instrument :

MSVOA_L

ClientSampleId :

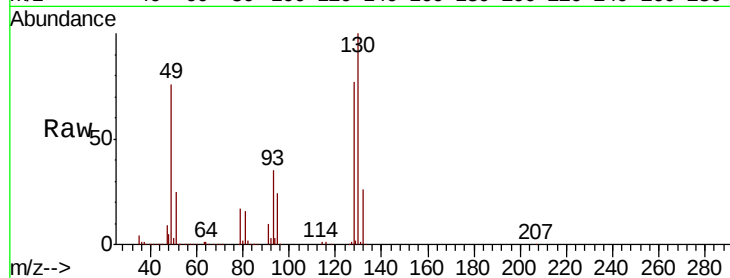
Tot Ion: 49 Resp: 1148404

Ion Ratio Lower Upper

49 100

128 104.8 20.9 62.7#

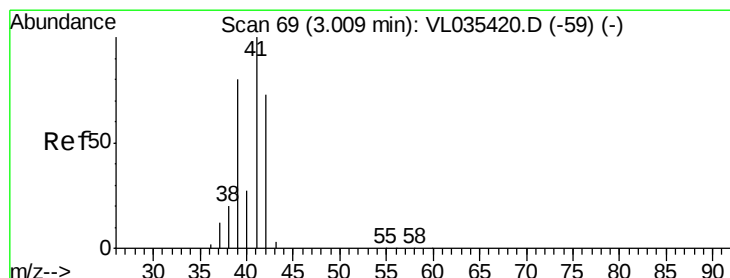
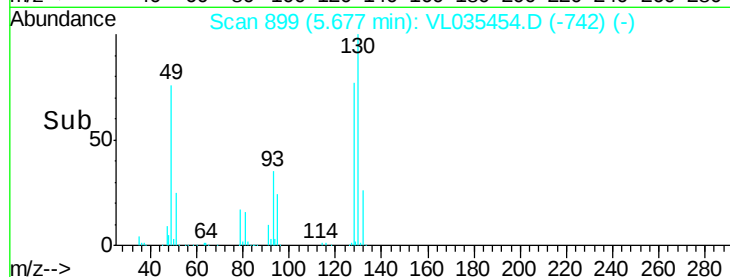
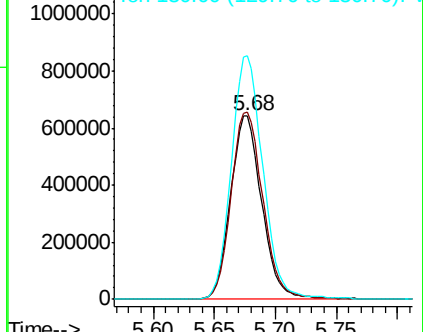
130 135.3 26.7 80.1#



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 1.123 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL035454.D

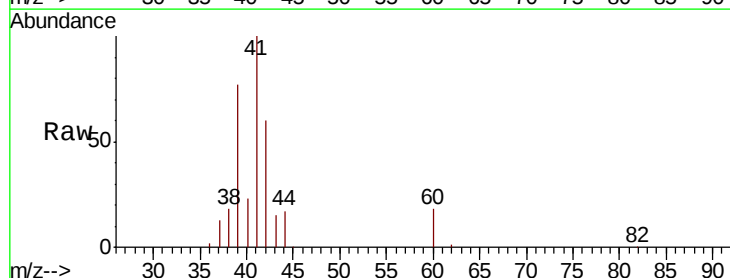
Acq: 18 Aug 2020 23:04

Tgt Ion: 41 Resp: 65005

Ion Ratio Lower Upper

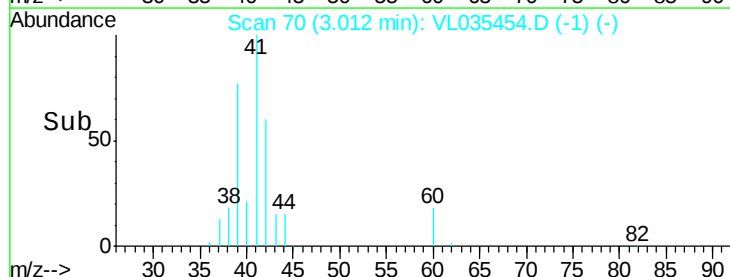
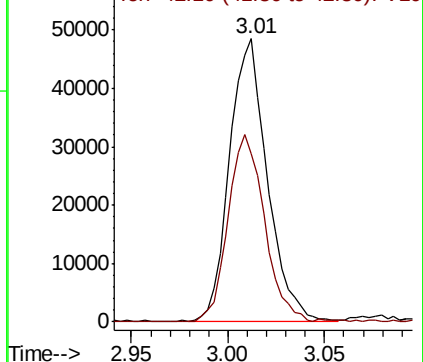
41 100

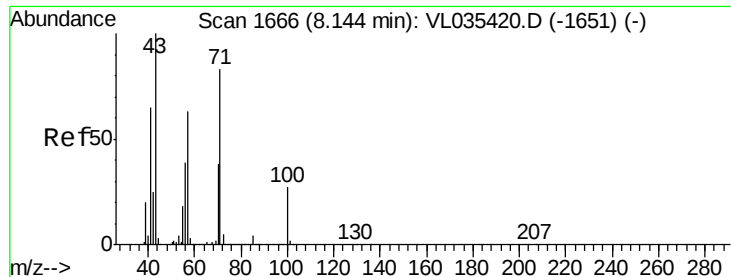
42 65.2 55.5 83.3



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

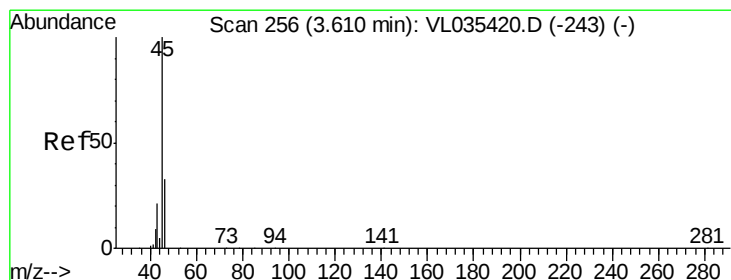
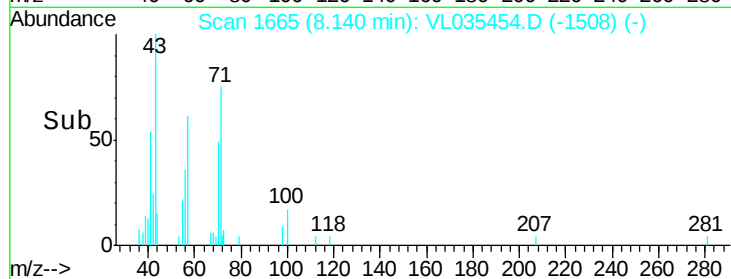
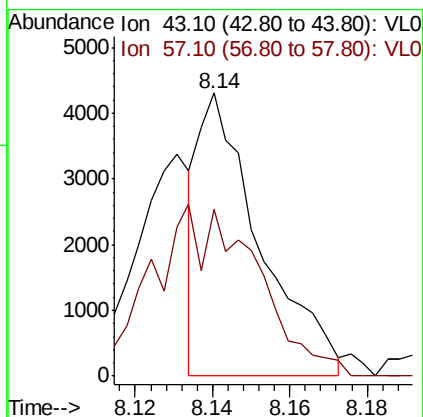
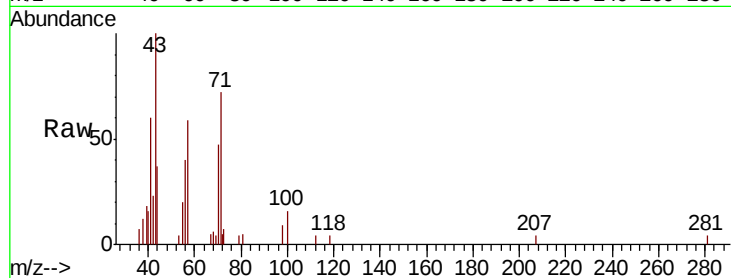




#10
Heptane
Concen: 0.031 ppbv
RT: 8.14 min Scan# 1665
Delta R.T. 0.00 min
Lab File: VL035454.D
Acq: 18 Aug 2020 23:04

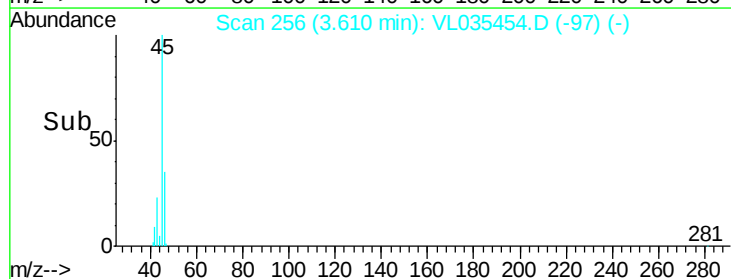
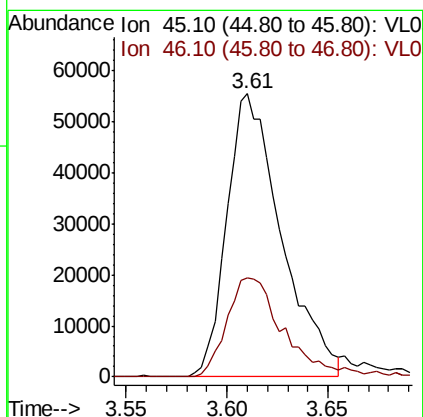
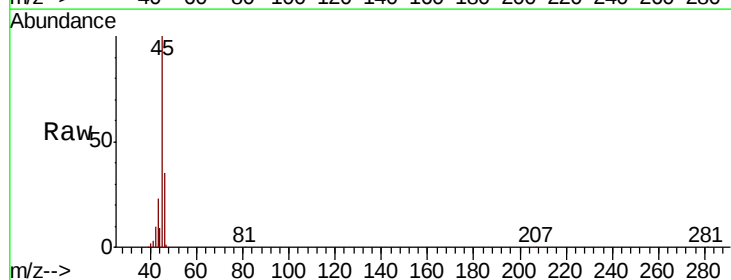
Instrument :
MSVOA_L
ClientSampleId :

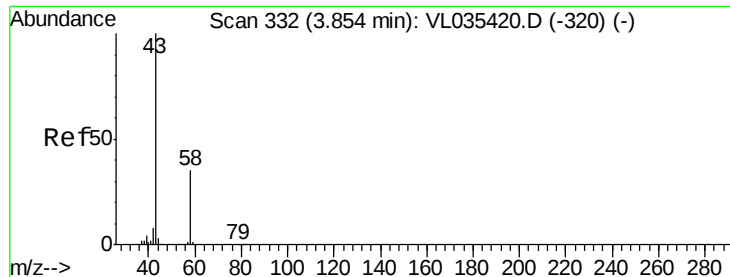
Tot Ion: 43 Resp: 4764
Ion Ratio Lower Upper
43 100
57 0.0 39.8 59.6#



#13
Ethanol
Concen: 4.945 ppbv
RT: 3.61 min Scan# 256
Delta R.T. 0.01 min
Lab File: VL035454.D
Acq: 18 Aug 2020 23:04

Tgt Ion: 45 Resp: 104854
Ion Ratio Lower Upper
45 100
46 37.6 14.2 56.6





#15

Acetone

Concen: 5.278 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.01 min

Lab File: VL035454.D

Acq: 18 Aug 2020 23:04

Instrument :

MSVOA_L

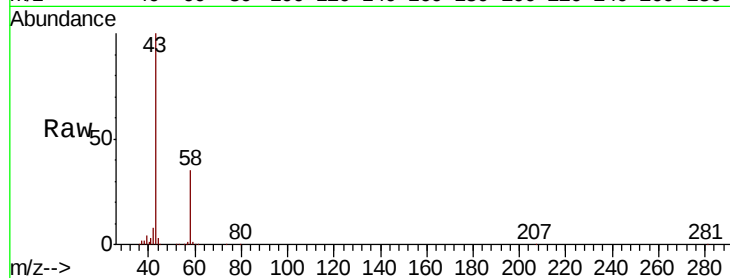
ClientSampled :

Tot Ion: 43 Resp: 697688

Ion Ratio Lower Upper

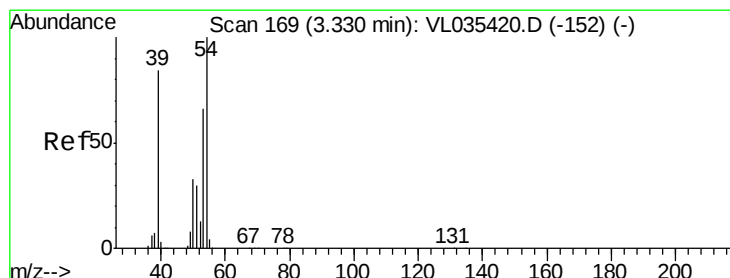
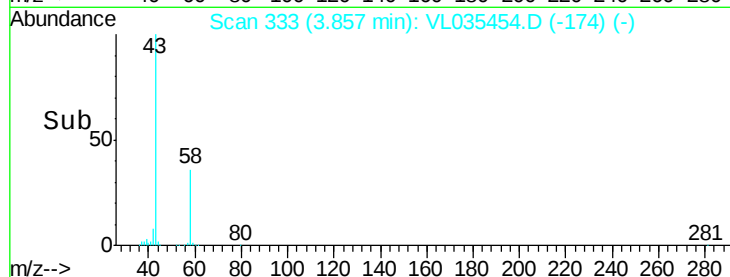
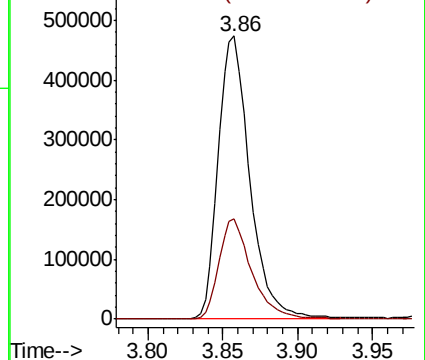
43 100

58 36.9 21.0 31.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 1.079 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.01 min

Lab File: VL035454.D

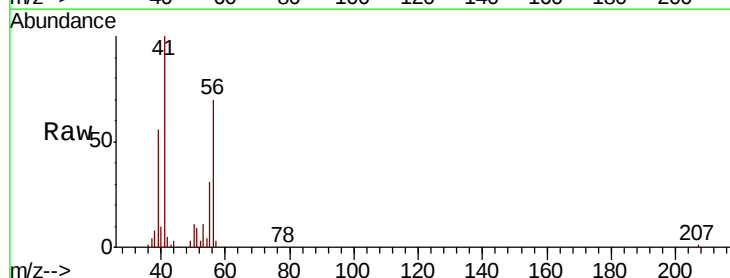
Acq: 18 Aug 2020 23:04

Tgt Ion: 39 Resp: 57849

Ion Ratio Lower Upper

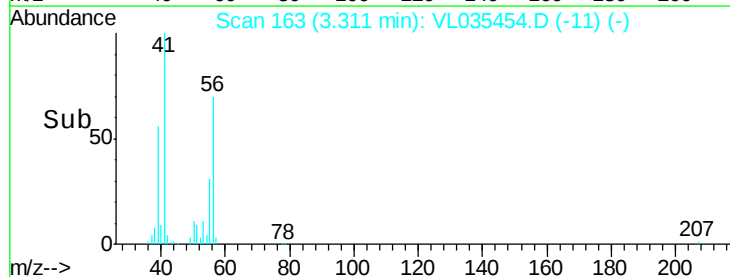
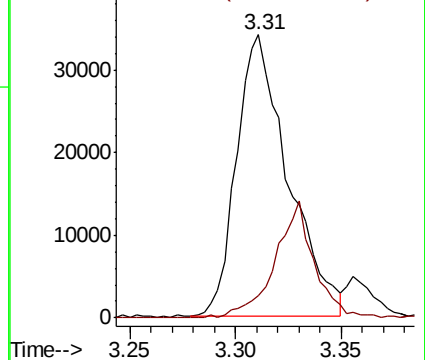
39 100

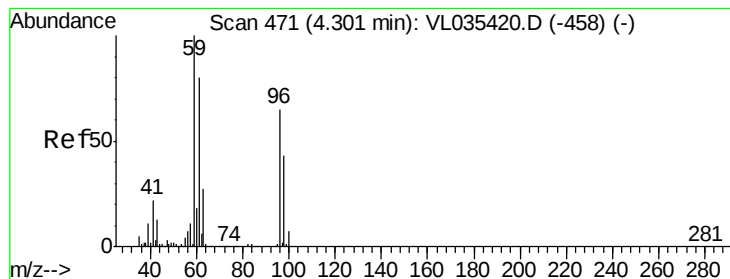
54 31.9 64.4 96.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.227 ppbv

RT: 4.31 min Scan# 475

Delta R.T. 0.02 min

Lab File: VL035454.D

Acq: 18 Aug 2020 23:04

Instrument :

MSVOA_L

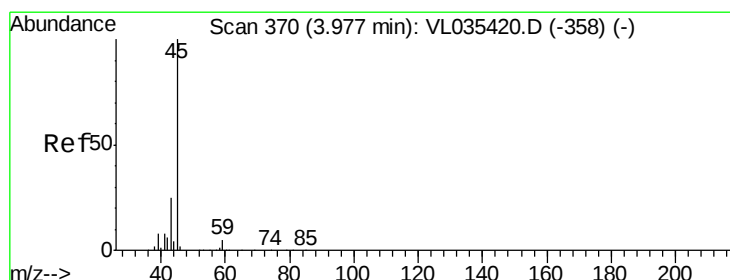
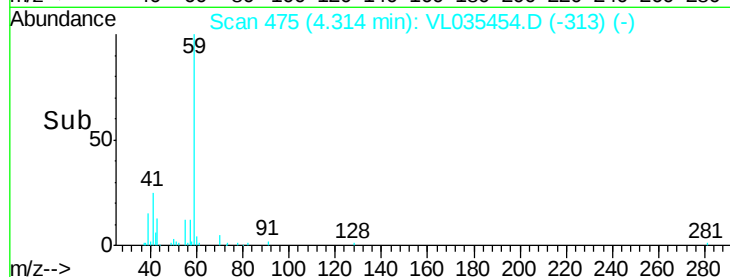
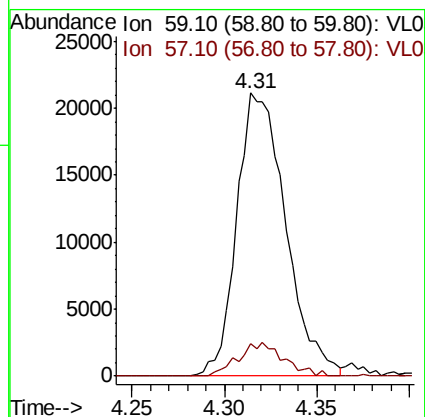
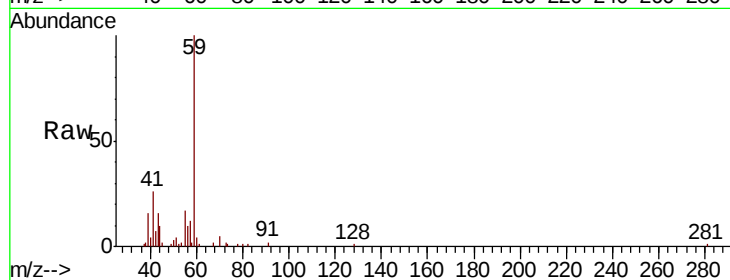
ClientSampleId :

Tot Ion: 59 Resp: 38748

Ion Ratio Lower Upper

59 100

57 11.0 8.9 13.3



#19

Isopropyl Alcohol

Concen: 0.164 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.01 min

Lab File: VL035454.D

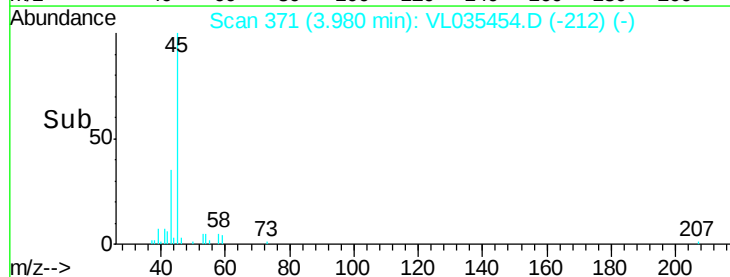
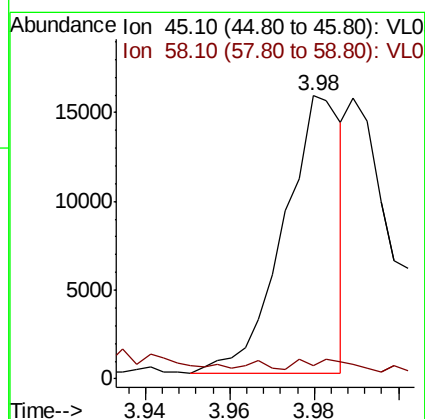
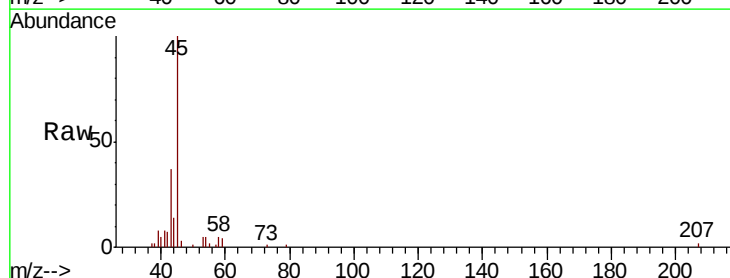
Acq: 18 Aug 2020 23:04

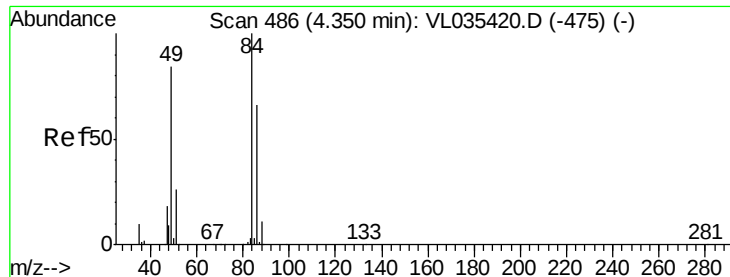
Tgt Ion: 45 Resp: 14954

Ion Ratio Lower Upper

45 100

58 0.0 1.0 1.6#

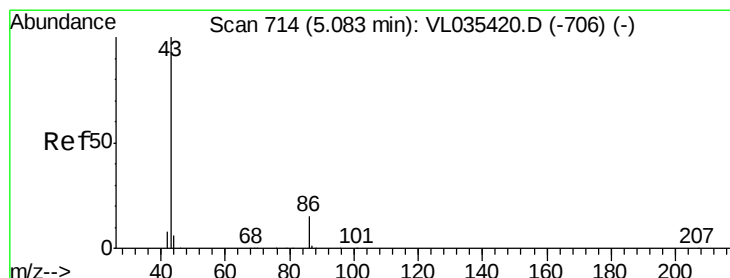
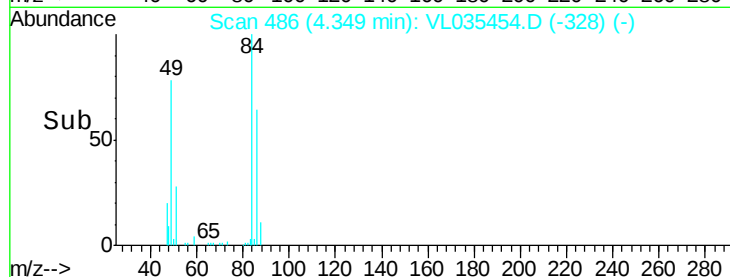
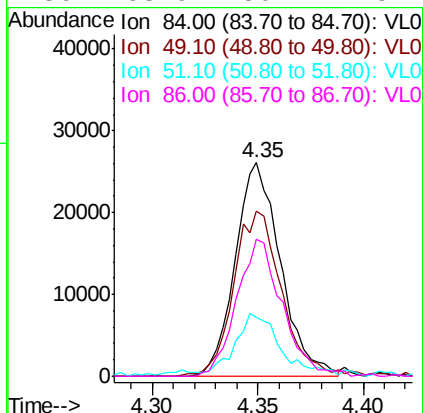
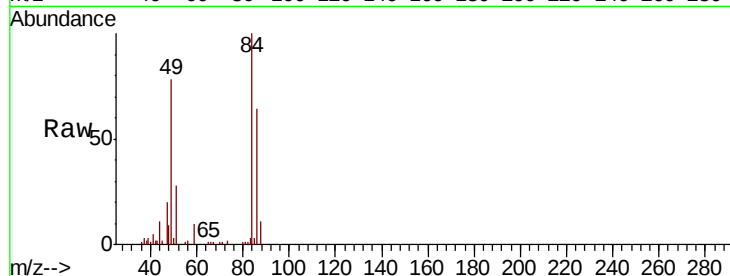




#20
Methvlene Chloride
Concen: 0.366 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.01 min
Lab File: VL035454.D
Acq: 18 Aug 2020 23:04

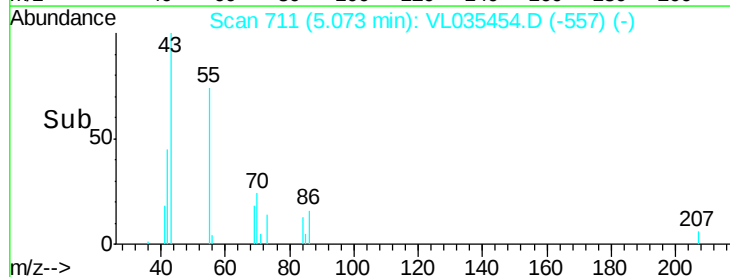
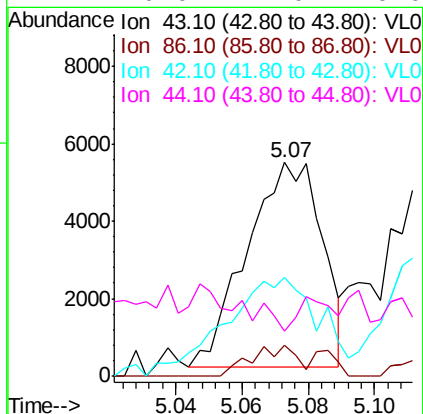
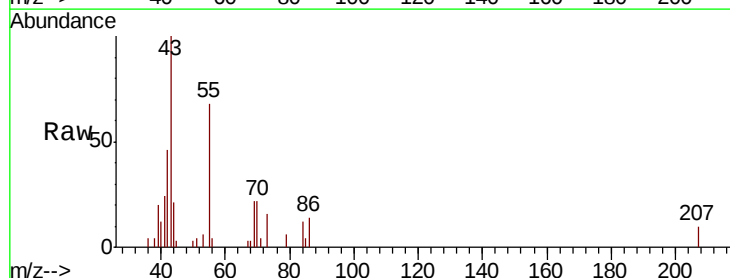
Instrument :
MSVOA_L
ClientSampleId :

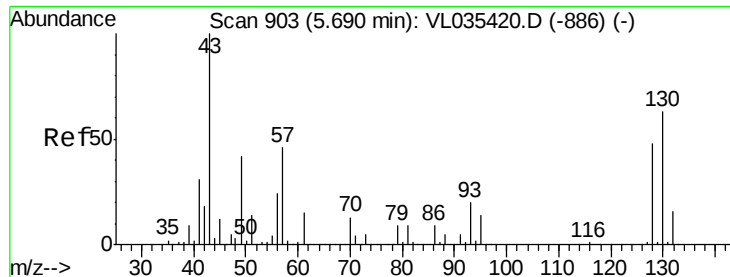
Tot Ion:	84	Resp:	39060
Ion	Ratio	Lower	Upper
84	100		
49	76.4	118.6	177.8#
51	26.9	36.4	54.6#
86	63.9	50.2	75.4



#23
Vinyl Acetate
Concen: 0.044 ppbv
RT: 5.07 min Scan# 711
Delta R.T. -0.01 min
Lab File: VL035454.D
Acq: 18 Aug 2020 23:04

Tgt Ion:	43	Resp:	8373
Ion	Ratio	Lower	Upper
43	100		
86	14.9	6.5	9.7#
42	36.6	8.3	12.5#
44	0.0	4.0	6.0#

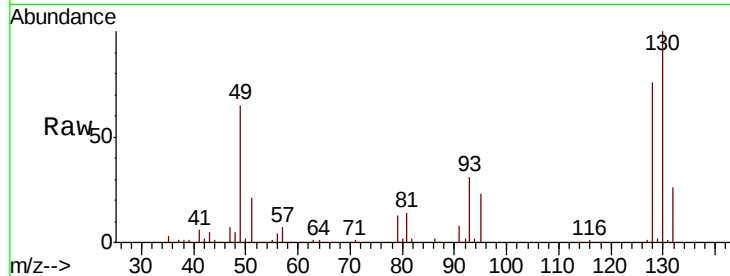




#25
Ethyl Acetate
Concen: 0.066 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL035454.D
Acq: 18 Aug 2020 23:04

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	16989
Ion	Ratio	Lower	Upper
43	100		
45	8.0	8.3	12.5#
61	2.8	7.6	11.4#
70	5.9	6.0	9.0#



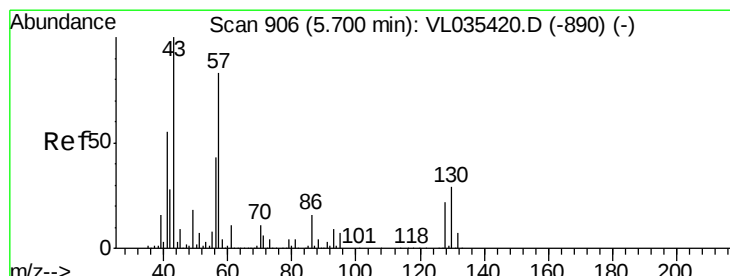
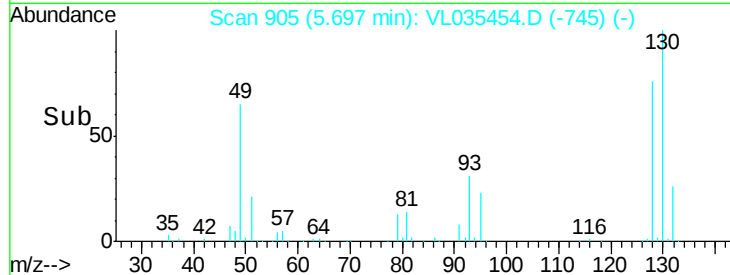
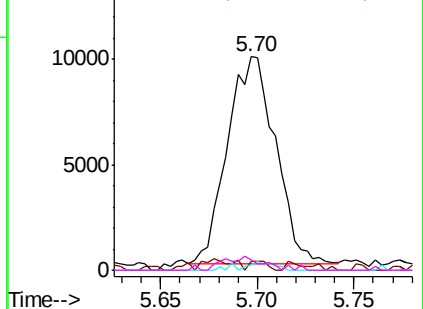
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

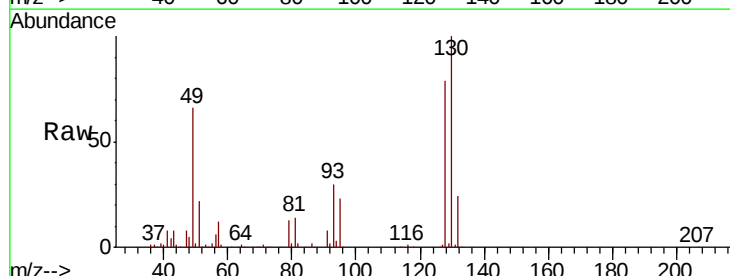
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.187 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL035454.D
Acq: 18 Aug 2020 23:04

Tgt Ion:	57	Resp:	27213
Ion	Ratio	Lower	Upper
57	100		
41	75.1	75.5	113.3#
43	70.9	181.7	272.5#
56	56.3	42.4	63.6



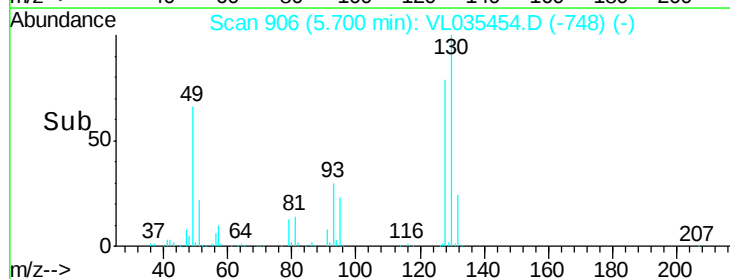
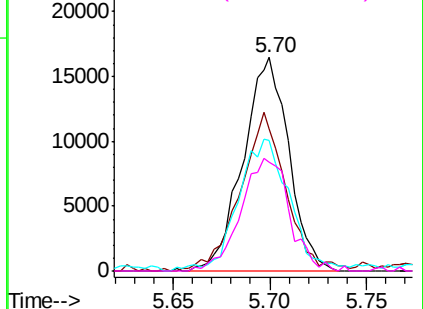
Abundance

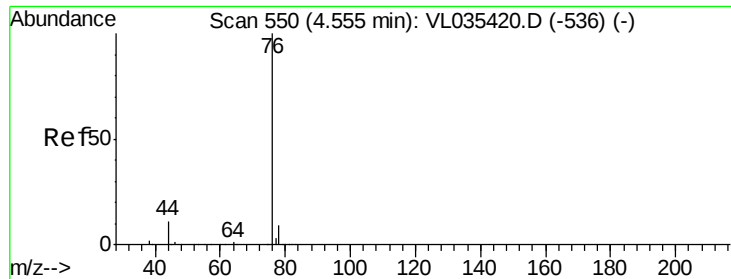
Ion 57.10 (56.80 to 57.80): VL0

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: 0.099 ppbv

RT: 4.56 min Scan# 551

Delta R.T. 0.01 min

Lab File: VL035454.D

Acq: 18 Aug 2020 23:04

Instrument :

MSVOA_L

ClientSampleId :

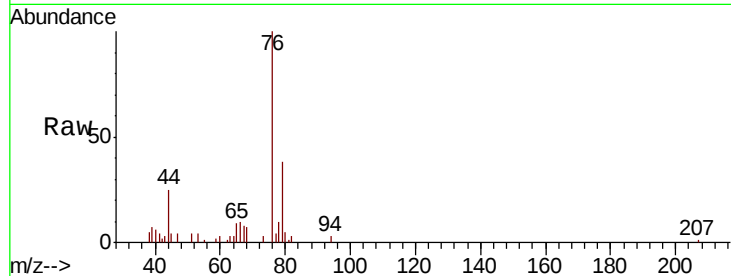
Tot Ion: 76 Resp: 20857

Ion Ratio Lower Upper

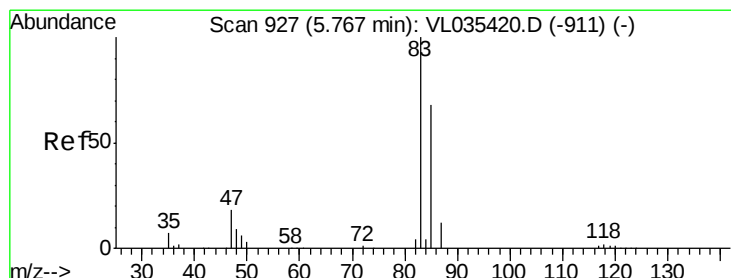
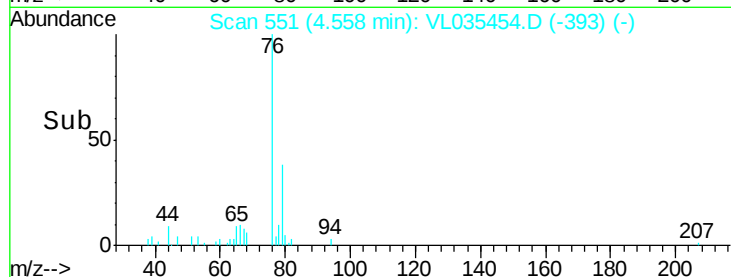
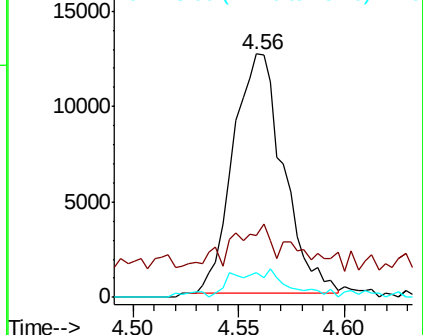
76 100

44 22.9 16.8 25.2

78 15.6 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



#29

Chloroform

Concen: 0.031 ppbv

RT: 5.76 min Scan# 925

Delta R.T. 0.00 min

Lab File: VL035454.D

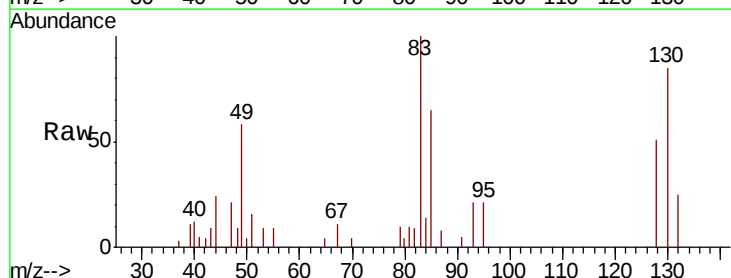
Acq: 18 Aug 2020 23:04

Tgt Ion: 83 Resp: 8905

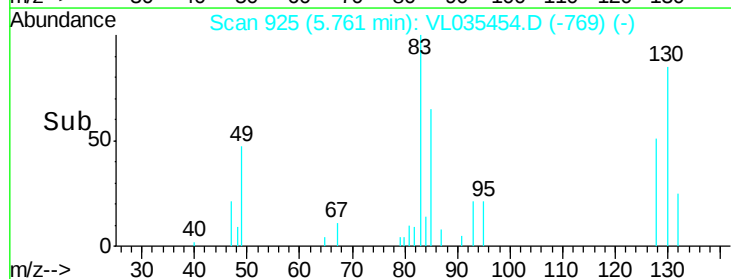
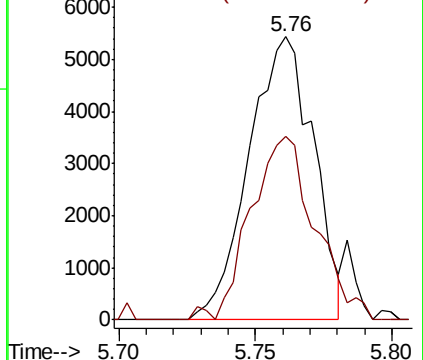
Ion Ratio Lower Upper

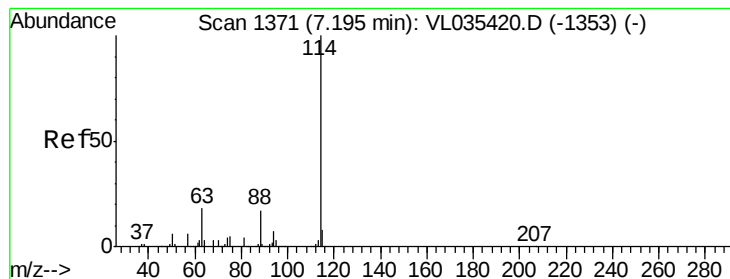
83 100

85 64.8 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: VL035454.D

Acq: 18 Aug 2020 23:04

Instrument :

MSVOA_L

ClientSampleId :

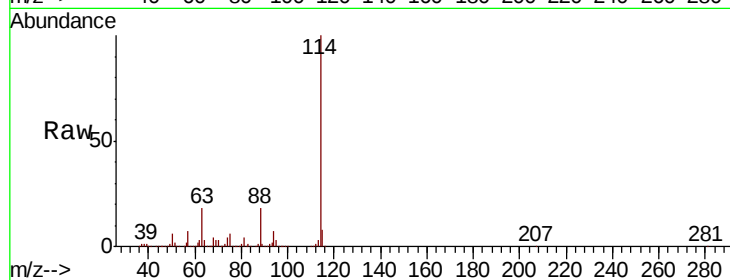
Tot Ion:114 Resp: 5334316

Ion Ratio Lower Upper

114 100

63 17.5 23.1 34.7#

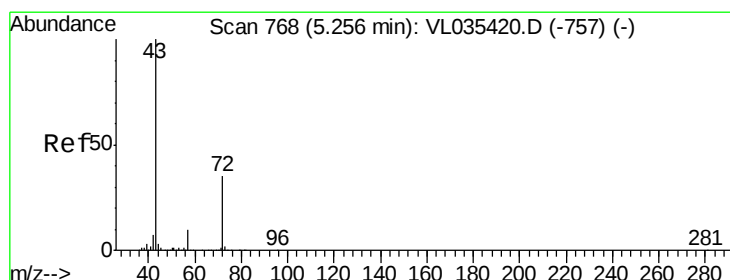
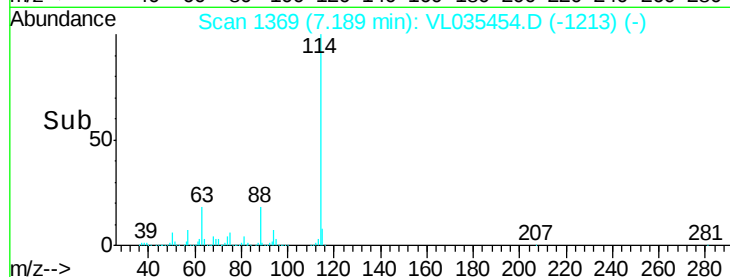
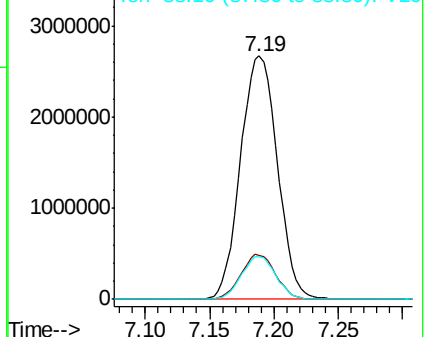
88 16.6 15.9 23.9



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 1.552 ppbv

RT: 5.26 min Scan# 768

Delta R.T. 0.01 min

Lab File: VL035454.D

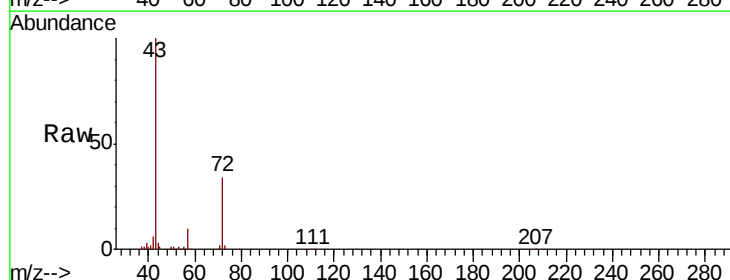
Acq: 18 Aug 2020 23:04

Tgt Ion: 43 Resp: 276552

Ion Ratio Lower Upper

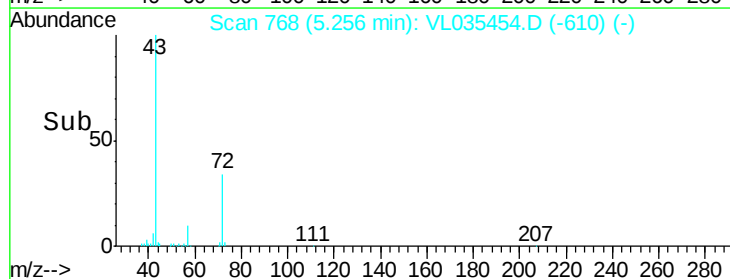
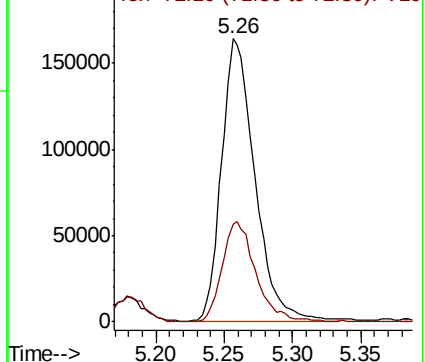
43 100

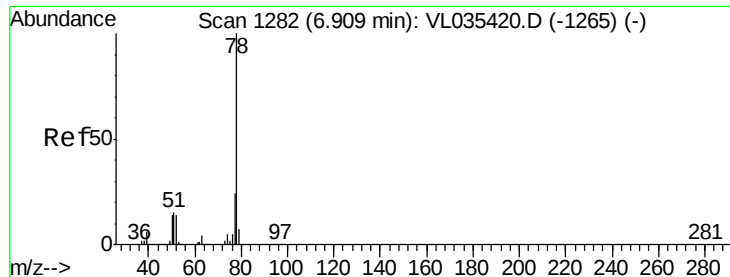
72 36.6 17.6 26.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.078 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. 0.00 min

Lab File: VL035454.D

Acq: 18 Aug 2020 23:04

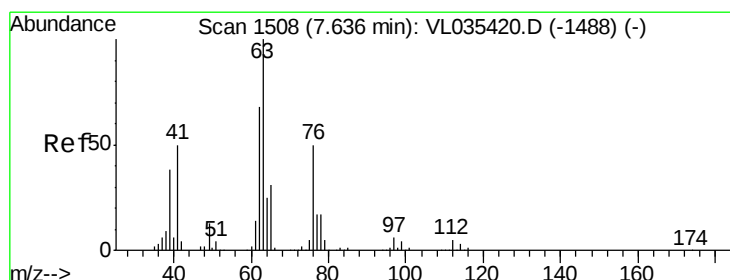
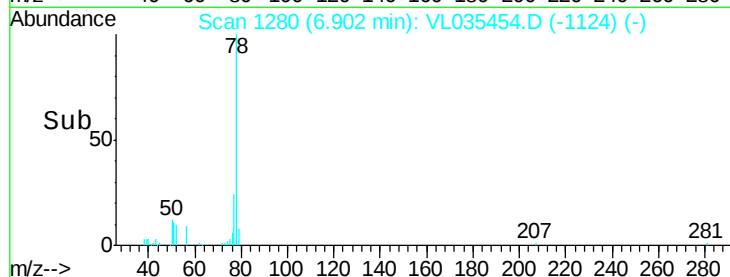
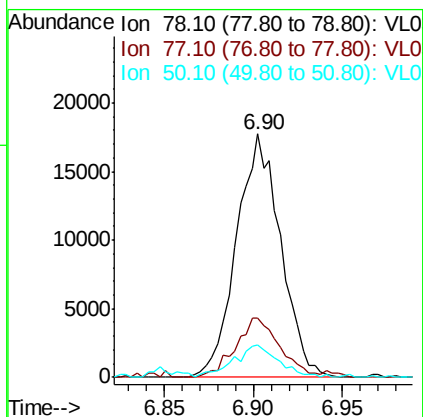
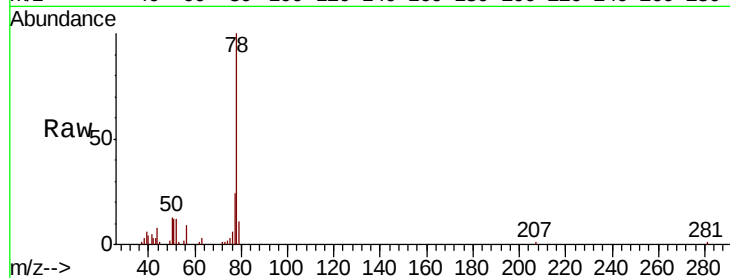
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 78 Resp: 30616

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.6	29.4
50	13.1	16.3	24.5#



#39

1,2-Dichloropropane

Concen: 7.204 ppbv

RT: 7.19 min Scan# 1368

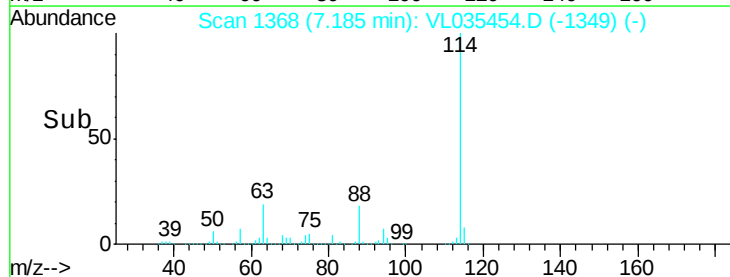
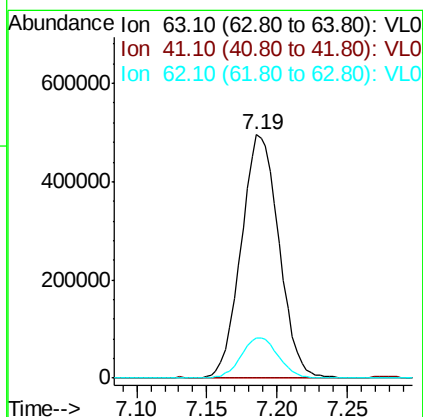
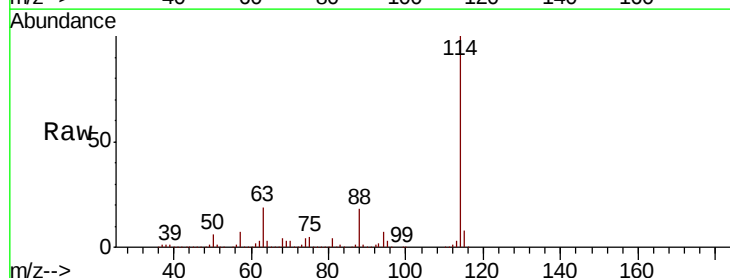
Delta R.T. -0.44 min

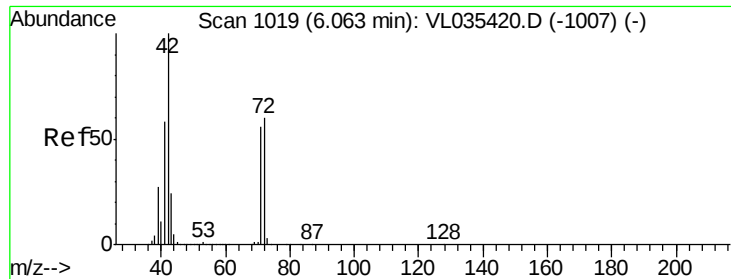
Lab File: VL035454.D

Acq: 18 Aug 2020 23:04

Tgt Ion: 63 Resp: 929564

Ion	Ratio	Lower	Upper
63	100		
41	0.0	61.1	91.7#
62	16.5	55.3	82.9#

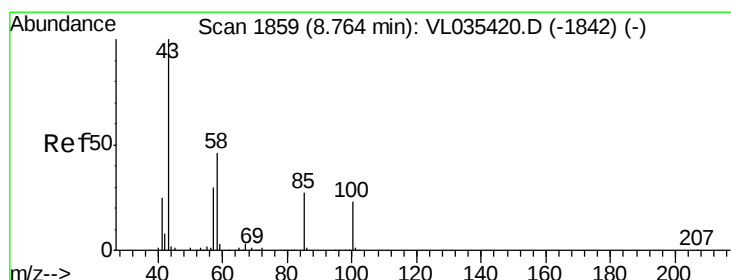
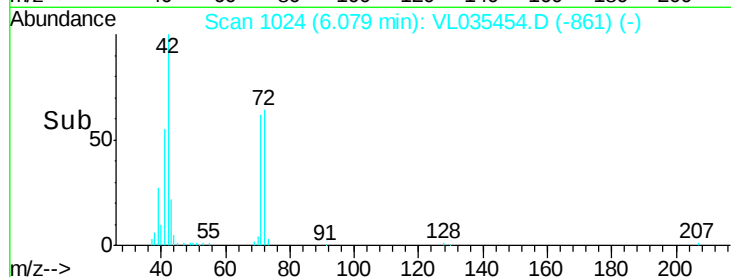
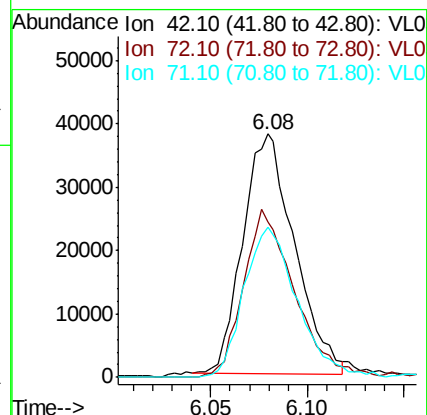
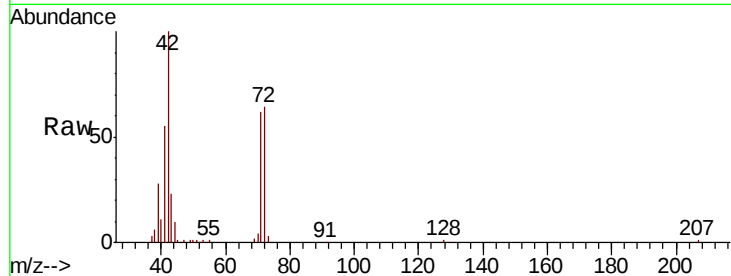




#41
Tetrahydrofuran
Concen: 0.714 ppbv
RT: 6.08 min Scan# 1024
Delta R.T. 0.02 min
Lab File: VL035454.D
Acq: 18 Aug 2020 23:04

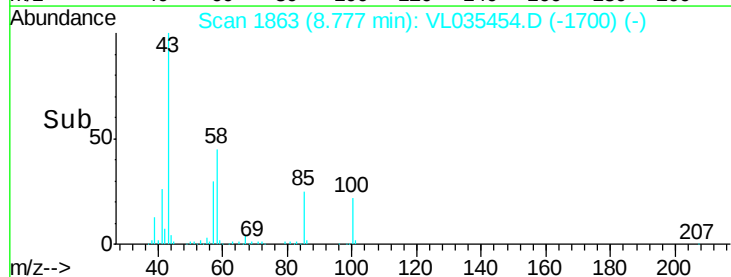
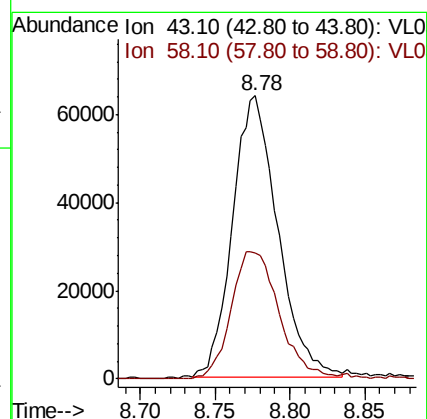
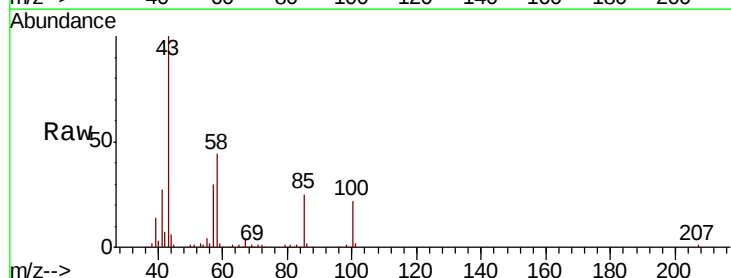
Instrument :
MSVOA_L
ClientSampleId :

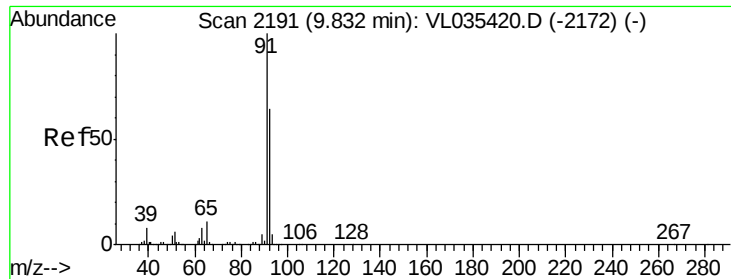
Tot Ion: 42 Resp: 70200
Ion Ratio Lower Upper
42 100
72 70.6 29.4 44.2#
71 65.1 28.9 43.3#



#50
4-Methyl-2-Pentanone
Concen: 0.523 ppbv
RT: 8.78 min Scan# 1863
Delta R.T. 0.02 min
Lab File: VL035454.D
Acq: 18 Aug 2020 23:04

Tgt Ion: 43 Resp: 133807
Ion Ratio Lower Upper
43 100
58 49.0 28.7 43.1#





#53

Toluene

Concen: 0.272 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. 0.00 min

Lab File: VL035454.D

Acq: 18 Aug 2020 23:04

Instrument :

MSVOA_L

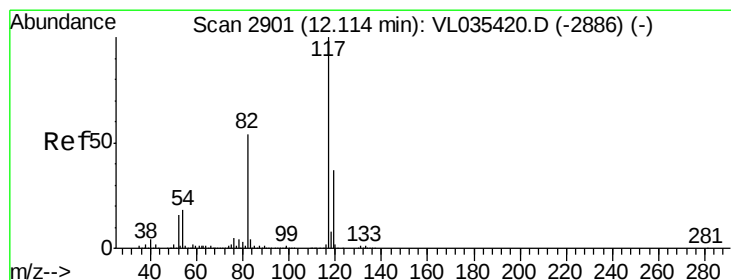
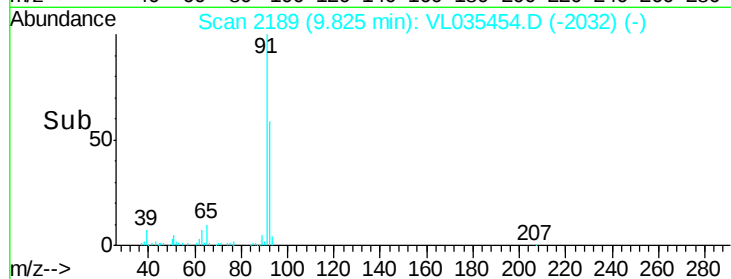
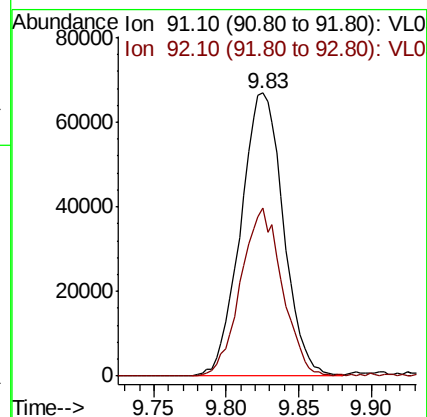
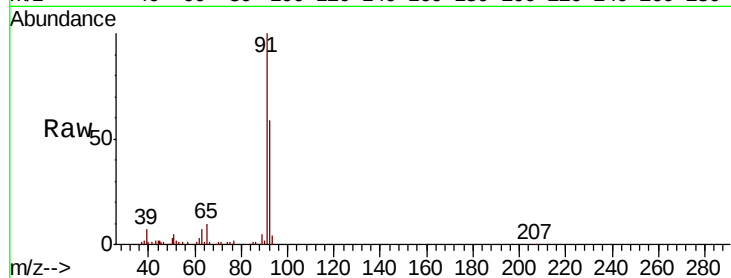
ClientSampleId :

Tot Ion: 91 Resp: 137044

Ion Ratio Lower Upper

91 100

92 57.8 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: VL035454.D

Acq: 18 Aug 2020 23:04

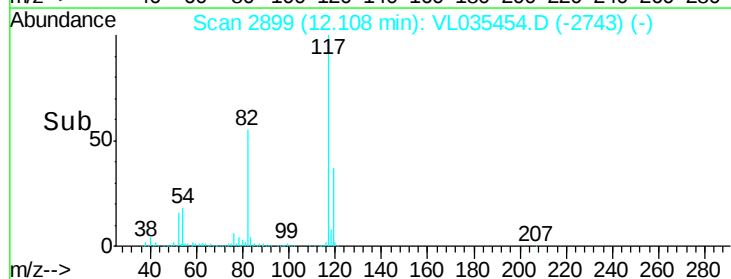
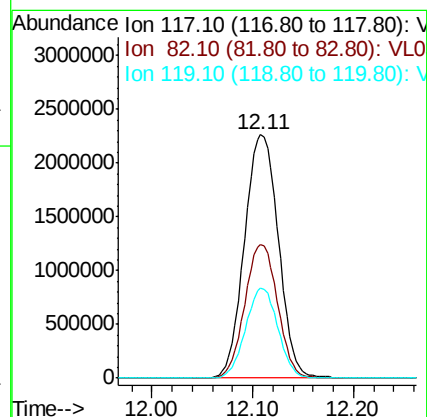
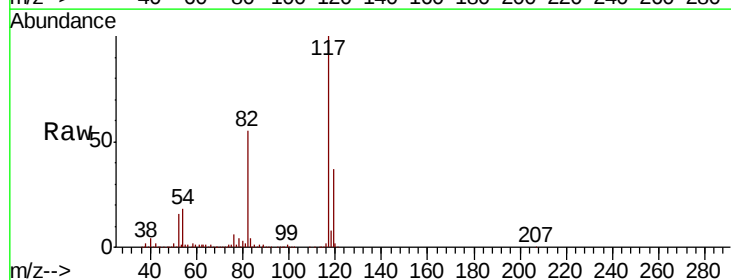
Tgt Ion: 117 Resp: 5288762

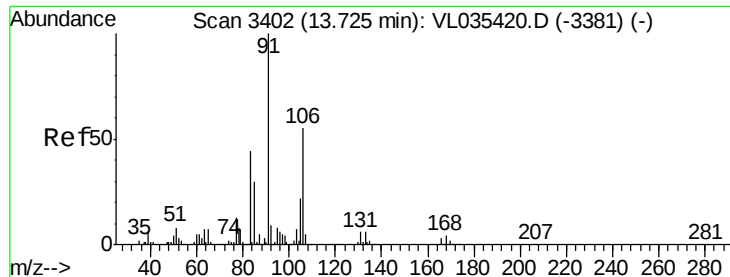
Ion Ratio Lower Upper

117 100

82 53.3 57.4 86.0#

119 35.2 28.4 42.6

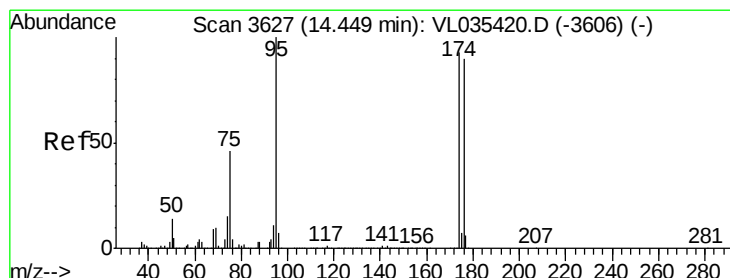
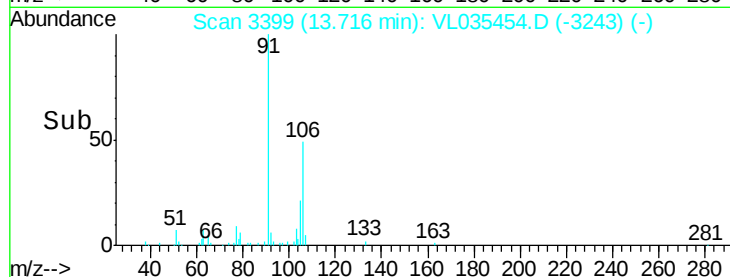
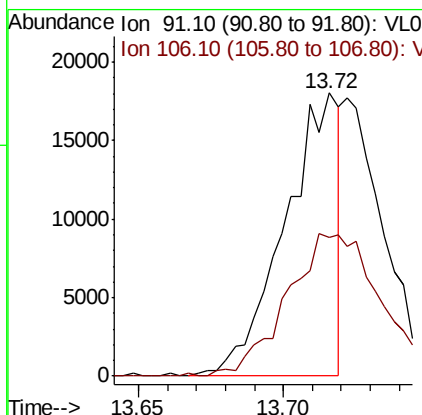
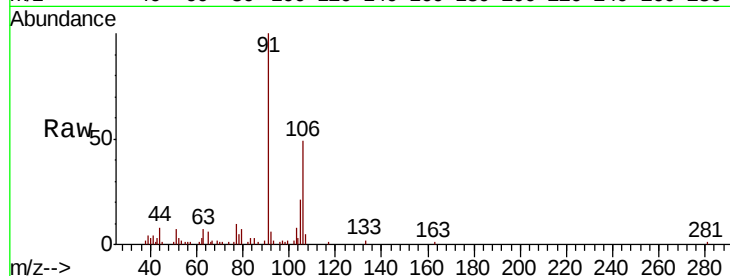




#60
o-Xylene
Concen: 0.045 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. 0.00 min
Lab File: VL035454.D
Acq: 18 Aug 2020 23:04

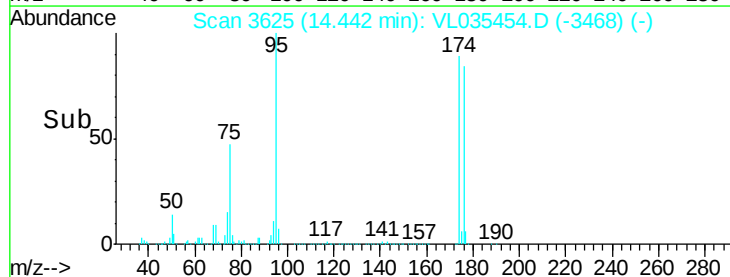
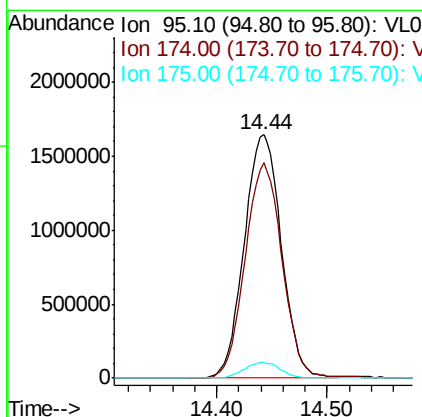
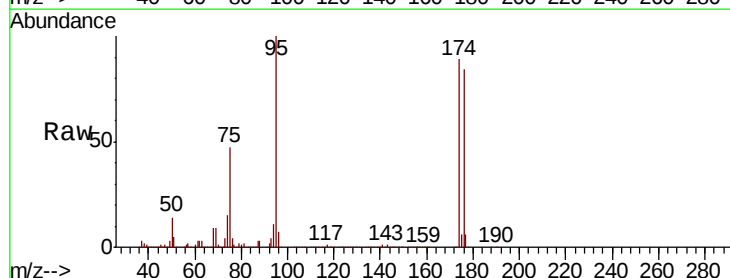
Instrument :
MSVOA_L
ClientSampleId :

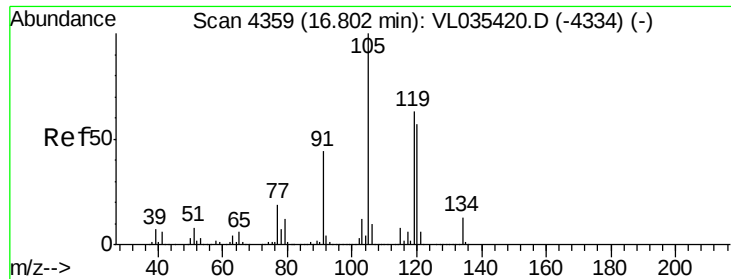
Tot Ion: 91 Resp: 23648
Ion Ratio Lower Upper
91 100
106 85.6 21.8 65.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.342 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. 0.00 min
Lab File: VL035454.D
Acq: 18 Aug 2020 23:04

Tgt Ion: 95 Resp: 3829289
Ion Ratio Lower Upper
95 100
174 89.0 44.0 66.0#
175 6.4 3.2 4.8#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.142 ppbv
 RT: 16.79 min Scan# 4355
 Delta R.T. -0.00 min
 Lab File: VL035454.D
 Acq: 18 Aug 2020 23:04

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:	105	Resp:	99089
Ion	Ratio	Lower	Upper
105	100		
120	47.9	37.8	56.8
91	12.1	40.0	60.0#
77	9.8	18.8	28.2#

