

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081720\
 Data File : VL035436.D
 Acq On : 18 Aug 2020 8:42
 Operator : SY/AP
 Sample : L3699-01DLDP 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DR-1DLDP

Quant Time: Aug 19 01:23:19 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	1152519	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	5247680	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5211670	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	3791025	10.39	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	11907	0.056	ppbv 97
3) Chlorodifluoromethane	2.99	51	5752	0.040	ppbv 97
9) Propene	3.02	41	151142	2.602	ppbv # 64
10) Heptane	8.14	43	33268	0.218	ppbv # 79
13) Ethanol	3.61	45	3553996	167.006	ppbv 98
15) Acetone	3.86	43	346027	2.608	ppbv 90
16) 1,3-Butadiene	3.31	39	14968	0.278	ppbv # 9
17) tert-Butyl alcohol	4.32	59	71891	0.419	ppbv 100
19) Isopropyl Alcohol	3.61	45	3553996	38.871	ppbv # 97
20) Methylene Chloride	4.35	84	98064	0.916	ppbv # 62
25) Ethyl Acetate	5.70	43	35849	0.139	ppbv # 83
26) Hexane	5.70	57	58025	0.398	ppbv # 33
27) Carbon Disulfide	4.56	76	8216	0.039	ppbv # 74
30) Cyclohexane	7.15	84	6976	0.043	ppbv # 28
34) 2-Butanone	5.26	43	25918	0.148	ppbv # 69
36) Benzene	6.91	78	39493	0.103	ppbv # 89
39) 1,2-Dichloropropane	7.19	63	909748	7.167	ppbv # 23
44) 2,2,4-Trimethylpentane	7.89	57	61958	0.123	ppbv 93
52) Tetrachloroethene	11.25	164	36321	0.155	ppbv # 85
53) Toluene	9.83	91	298810	0.602	ppbv 98
58) Ethyl Benzene	12.74	91	163567	0.260	ppbv 90
59) m/p-Xylene	13.00	91	488811	0.919	ppbv # 83
60) o-Xylene	13.72	91	209037	0.404	ppbv 89
64) n-propylbenzene	15.60	120	37050	0.142	ppbv # 47
65) tert-Butylbenzene	16.79	119	140052	0.170	ppbv # 86
72) 4-Ethyltoluene	15.87	105	345533	0.509	ppbv # 91
73) 1,3,5-Trimethylbenzene	16.03	105	270762	0.429	ppbv 94
74) 1,2,4-Trimethylbenzene	16.79	105	1115201	1.626	ppbv # 71
79) Naphthalene	22.25	128	49037	0.051	ppbv 98
80) Naphthalene,2-methyl-	25.01	142	21951	0.055	ppbv 95

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.00 min

Lab File: VL035436.D

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DR-1DLDP

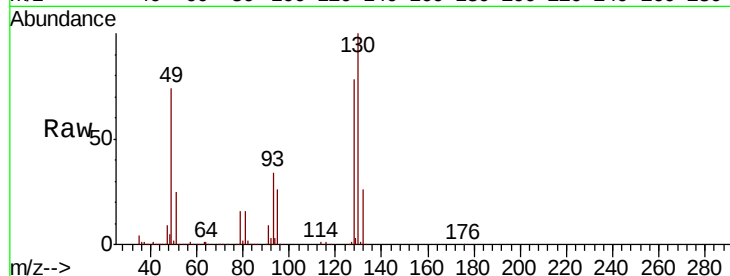
Tot Ion: 49 Resp: 1152519

Ion Ratio Lower Upper

49 100

128 104.5 20.9 62.7#

130 134.4 26.7 80.1#



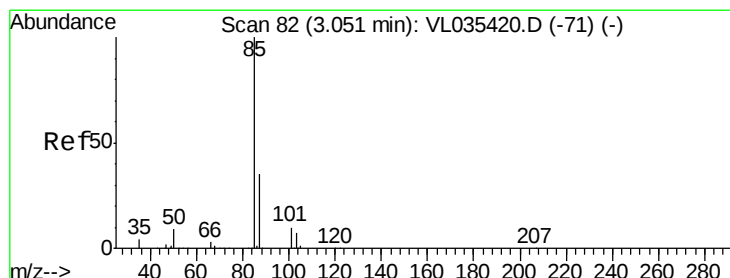
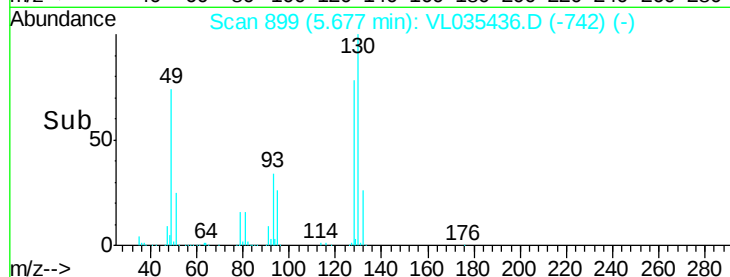
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.68

Time-->



#2

Dichlorodifluoromethane

Concen: 0.056 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.01 min

Lab File: VL035436.D

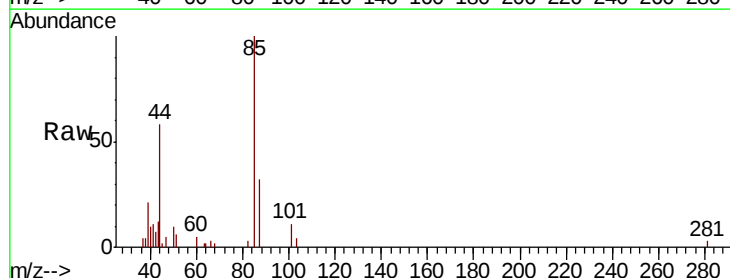
Acq: 18 Aug 2020 8:42

Tgt Ion: 85 Resp: 11907

Ion Ratio Lower Upper

85 100

87 32.3 27.1 40.7

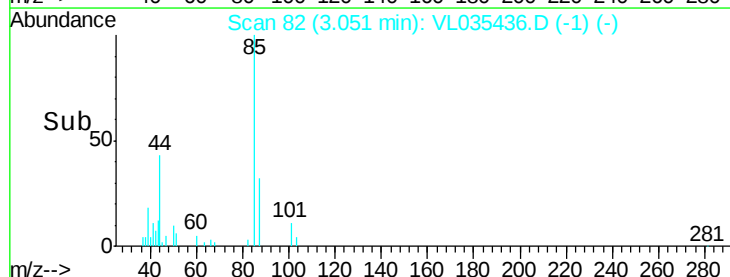


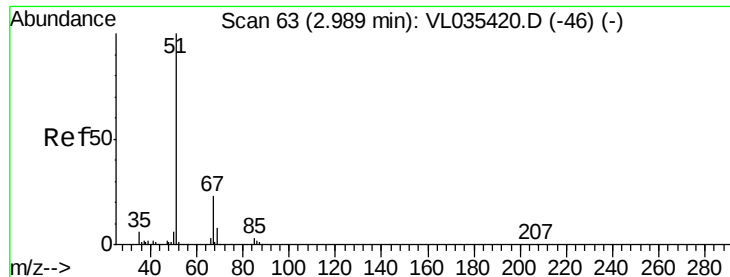
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

Time-->





#3

Chlorodifluoromethane

Concen: 0.040 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Instrument :

MSVOA_L

ClientSampleId :

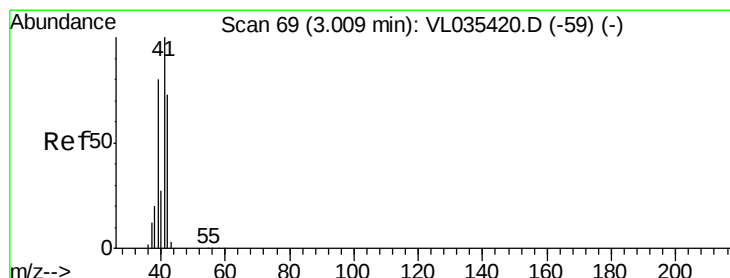
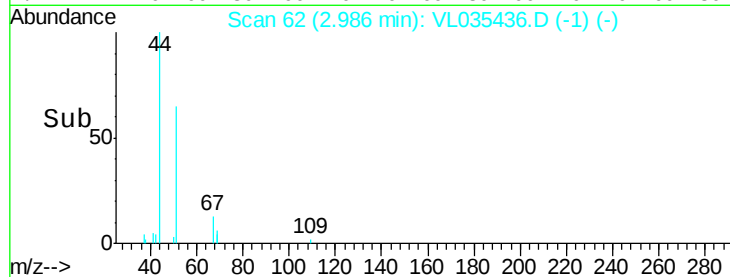
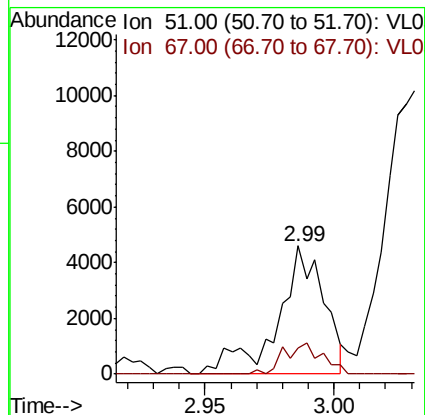
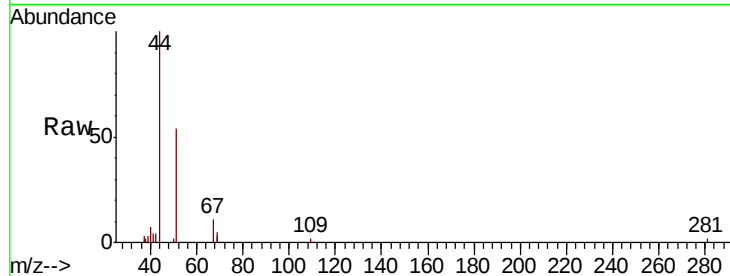
DR-1DLDP

Tot Ion: 51 Resp: 5752

Ion Ratio Lower Upper

51 100

67 20.0 15.0 22.6



#9

Propene

Concen: 2.602 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.02 min

Lab File: VL035436.D

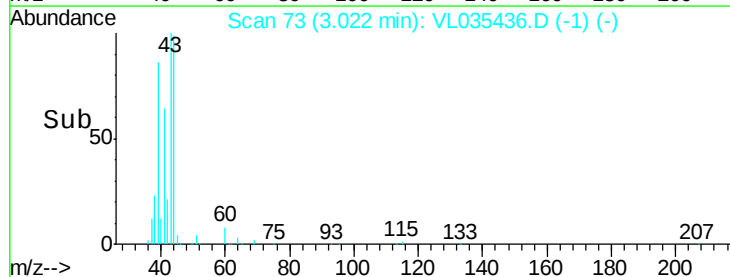
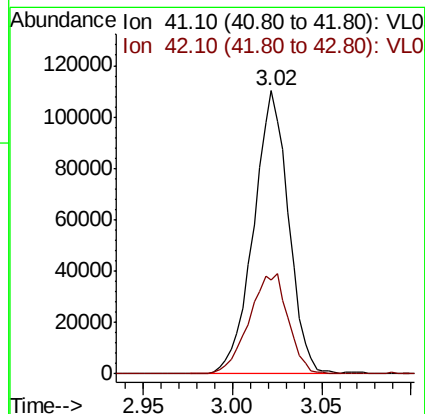
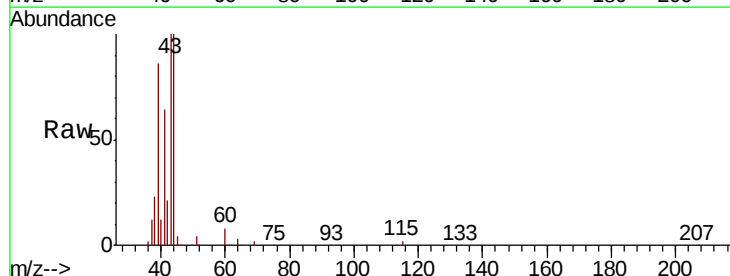
Acq: 18 Aug 2020 8:42

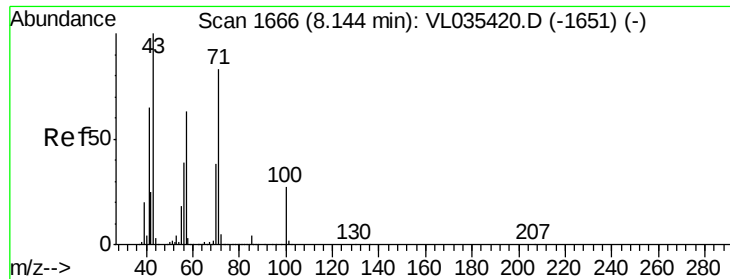
Tgt Ion: 41 Resp: 151142

Ion Ratio Lower Upper

41 100

42 39.7 55.5 83.3#

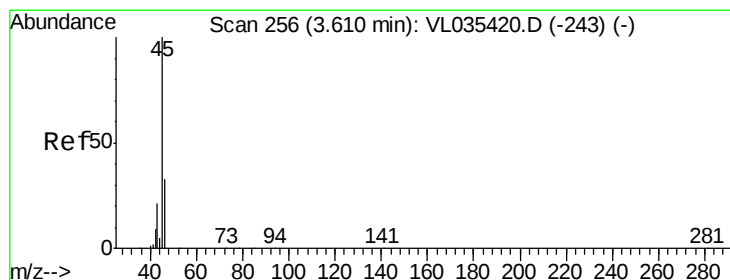
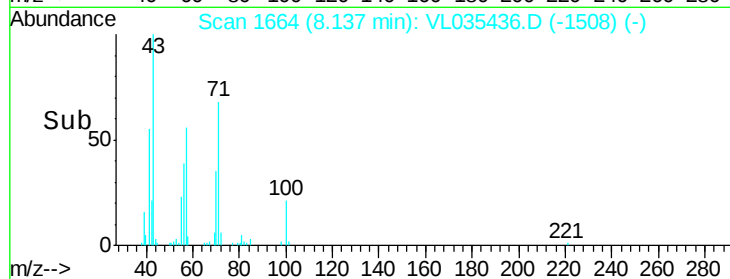
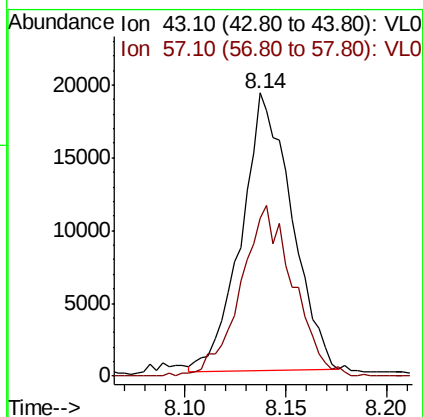
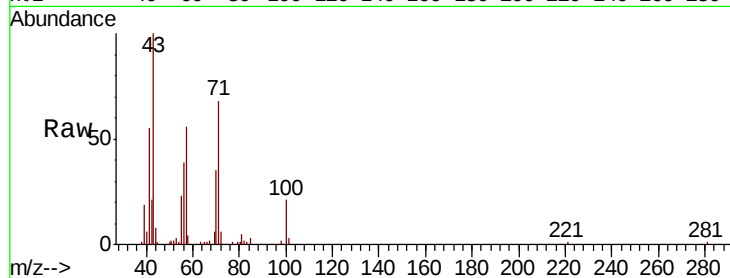




#10
Heptane
Concen: 0.218 ppbv
RT: 8.14 min Scan# 1664
Delta R.T. 0.00 min
Lab File: VL035436.D
Acq: 18 Aug 2020 8:42

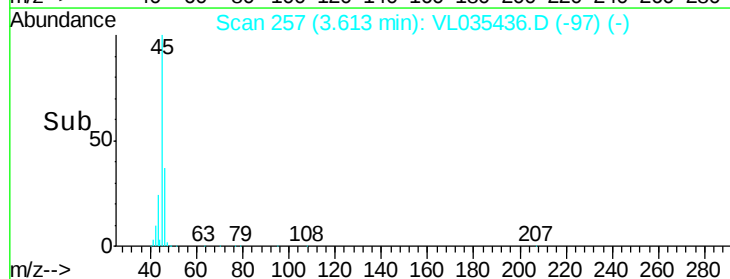
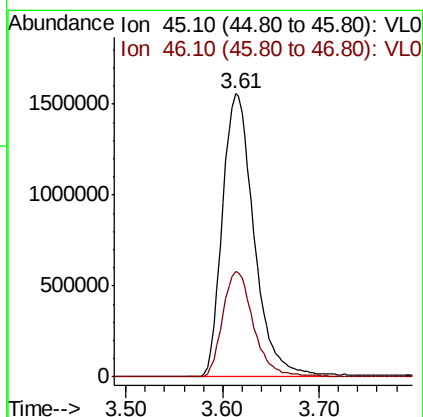
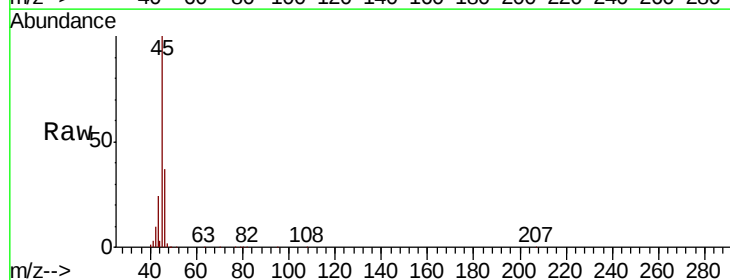
Instrument :
MSVOA_L
ClientSampleId :
DR-1DLDP

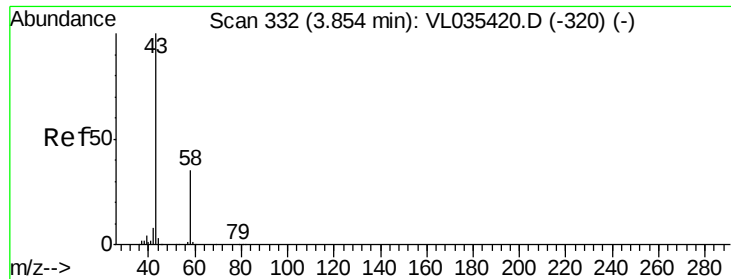
Tot Ion: 43 Resp: 33268
Ion Ratio Lower Upper
43 100
57 64.0 39.8 59.6#



#13
Ethanol
Concen: 167.006 ppbv
RT: 3.61 min Scan# 257
Delta R.T. 0.01 min
Lab File: VL035436.D
Acq: 18 Aug 2020 8:42

Tgt Ion: 45 Resp: 3553996
Ion Ratio Lower Upper
45 100
46 36.7 14.2 56.6





#15

Acetone

Concen: 2.608 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.01 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Instrument :

MSVOA_L

ClientSampleId :

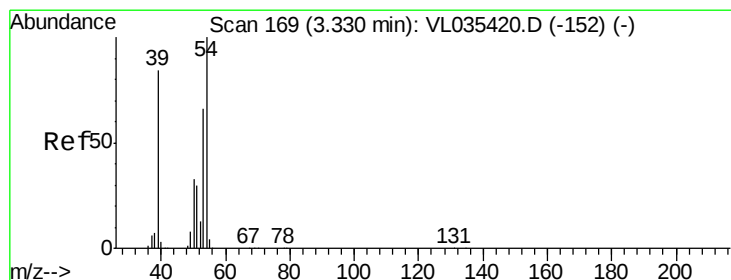
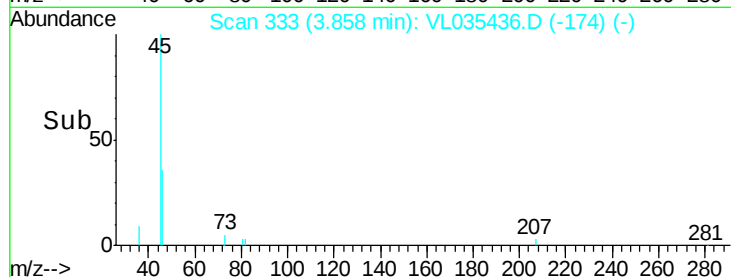
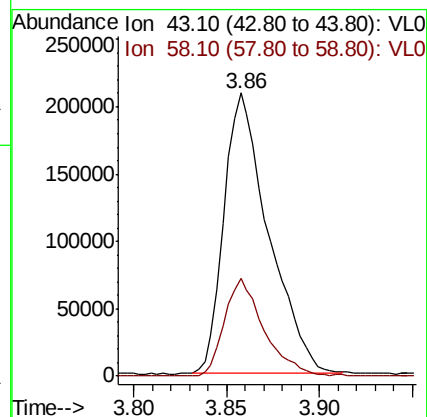
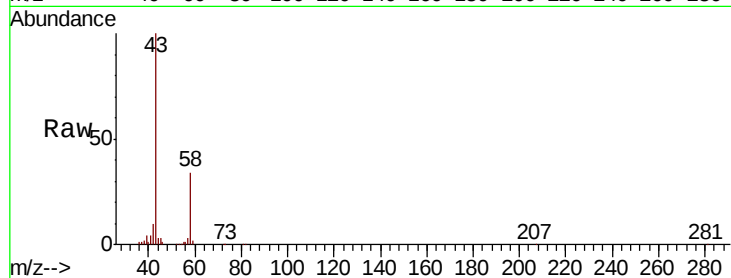
DR-1DLDP

Tot Ion: 43 Resp: 346027

Ion Ratio Lower Upper

43 100

58 31.2 21.0 31.6



#16

1,3-Butadiene

Concen: 0.278 ppbv

RT: 3.31 min Scan# 162

Delta R.T. -0.02 min

Lab File: VL035436.D

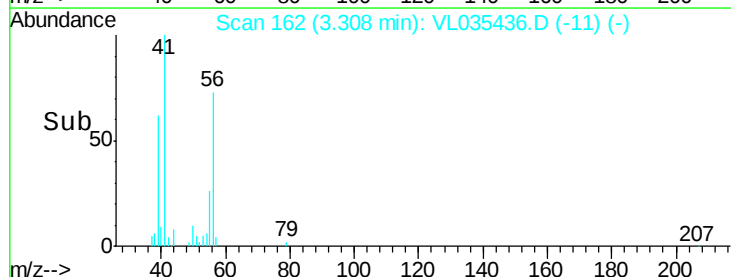
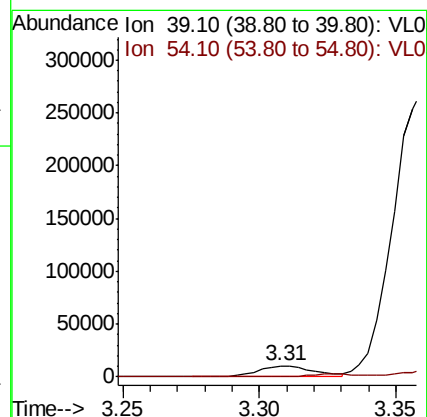
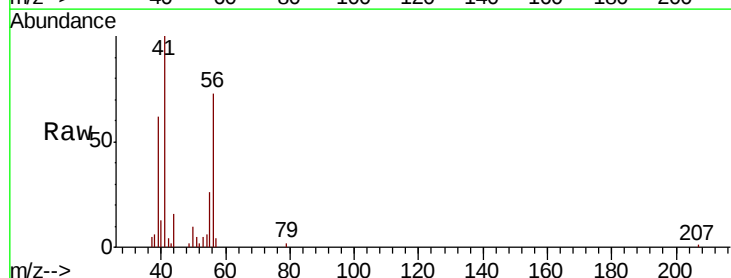
Acq: 18 Aug 2020 8:42

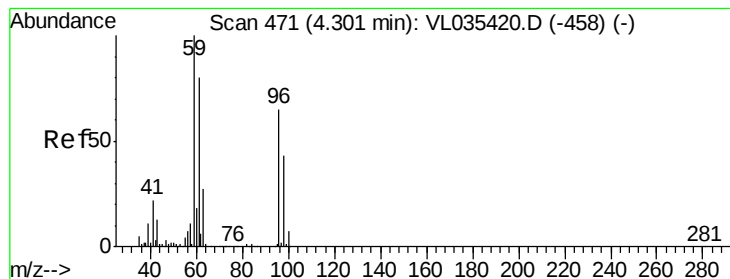
Tgt Ion: 39 Resp: 14968

Ion Ratio Lower Upper

39 100

54 0.0 64.4 96.6#





#17

tert-Butyl alcohol

Concen: 0.419 ppbv

RT: 4.32 min Scan# 477

Delta R.T. 0.03 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Instrument :

MSVOA_L

ClientSampleId :

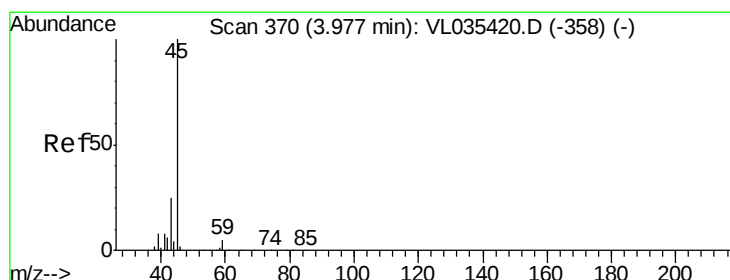
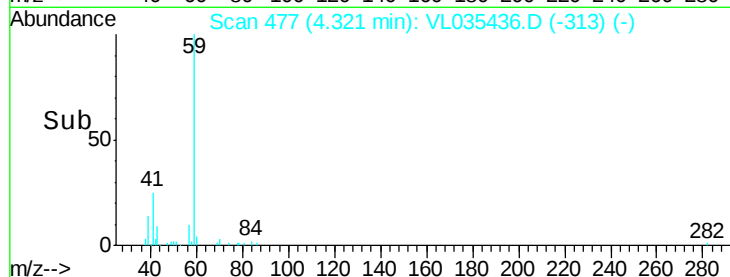
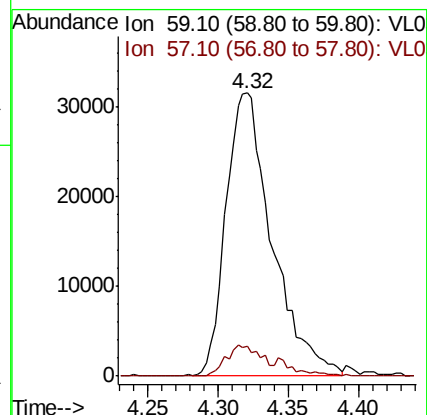
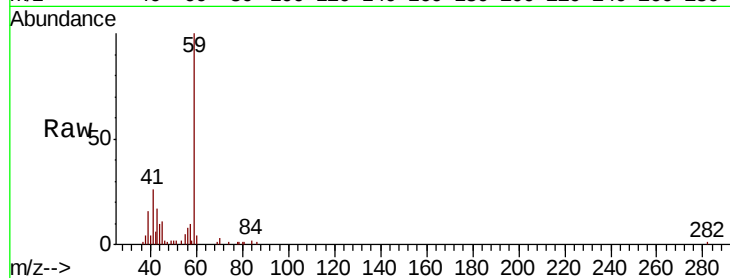
DR-1DLDP

Tot Ion: 59 Resp: 71891

Ion Ratio Lower Upper

59 100

57 11.1 8.9 13.3



#19

Isopropyl Alcohol

Concen: 38.871 ppbv

RT: 3.61 min Scan# 257

Delta R.T. -0.36 min

Lab File: VL035436.D

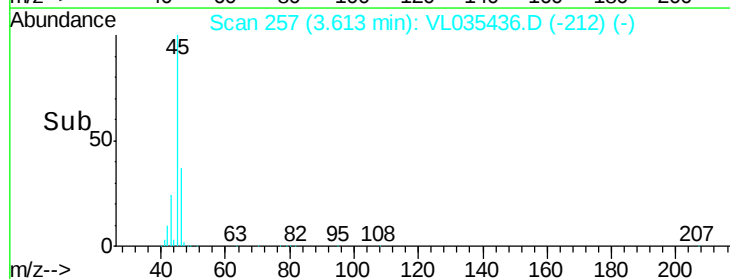
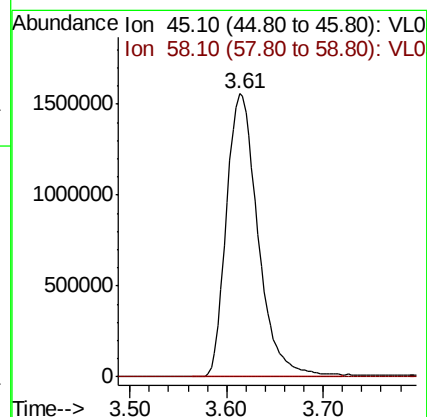
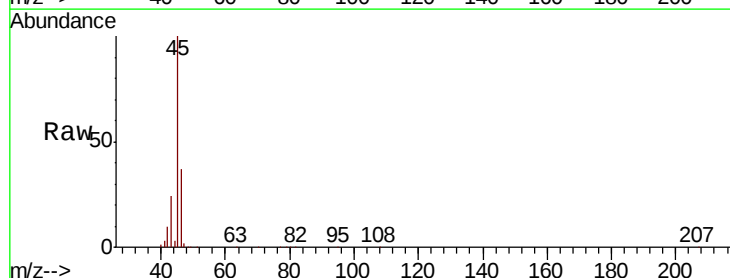
Acq: 18 Aug 2020 8:42

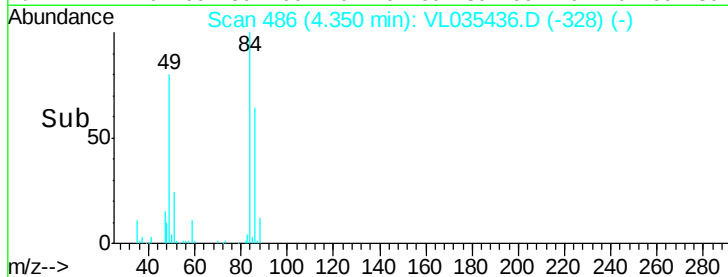
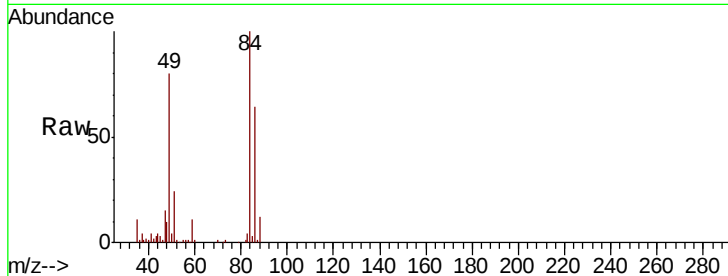
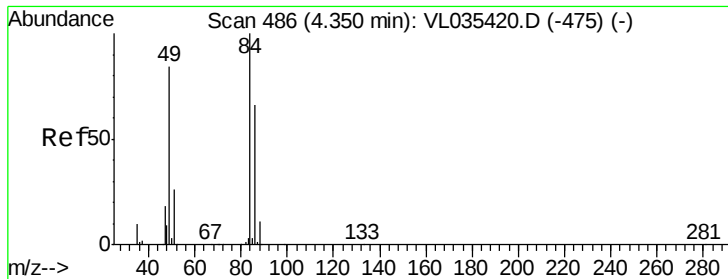
Tgt Ion: 45 Resp: 3553996

Ion Ratio Lower Upper

45 100

58 0.0 1.0 1.6#

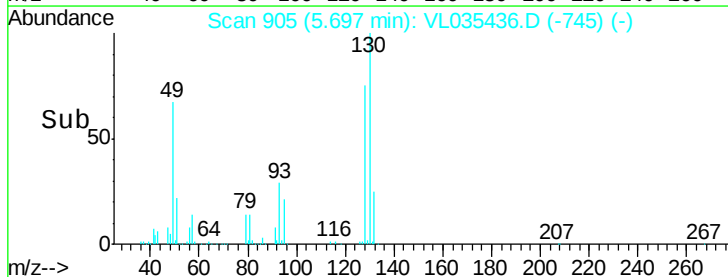
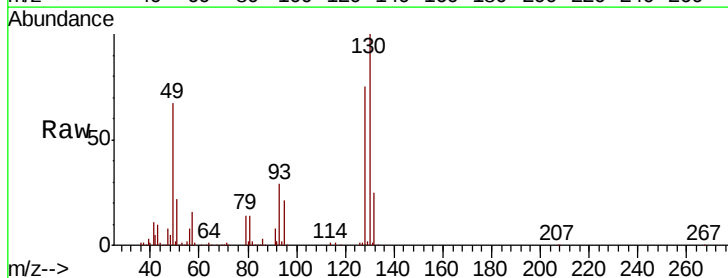
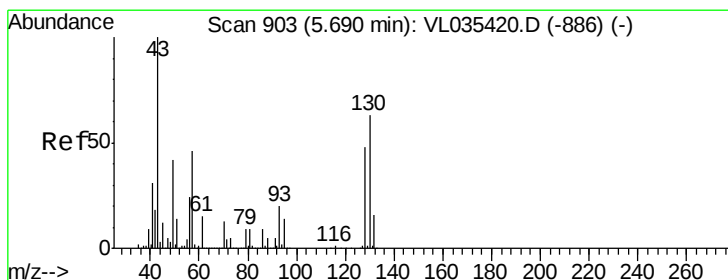
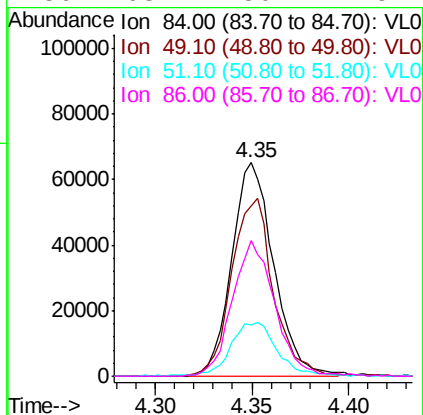




#20
Methylene Chloride
Concen: 0.916 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.01 min
Lab File: VL035436.D
Acq: 18 Aug 2020 8:42

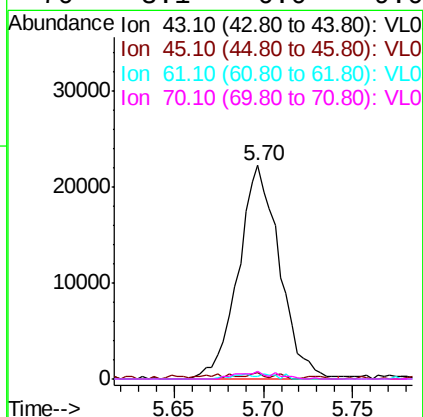
Instrument :
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DR-1DLDP

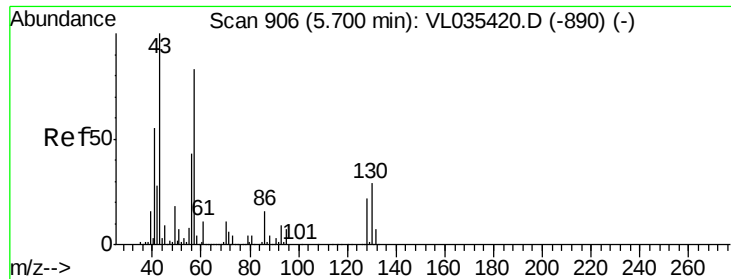
Tot Ion:	84	Resp:	98064
Ion	Ratio	Lower	Upper
84	100		
49	79.1	118.6	177.8#
51	23.4	36.4	54.6#
86	63.2	50.2	75.4



#25
Ethyl Acetate
Concen: 0.139 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL035436.D
Acq: 18 Aug 2020 8:42

Tgt Ion:	43	Resp:	35849
Ion	Ratio	Lower	Upper
43	100		
45	3.9	8.3	12.5#
61	2.4	7.6	11.4#
70	3.1	6.0	9.0#

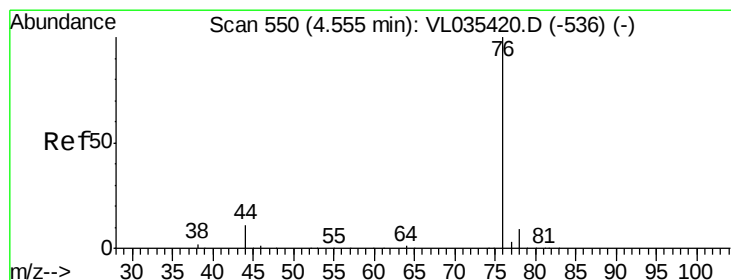
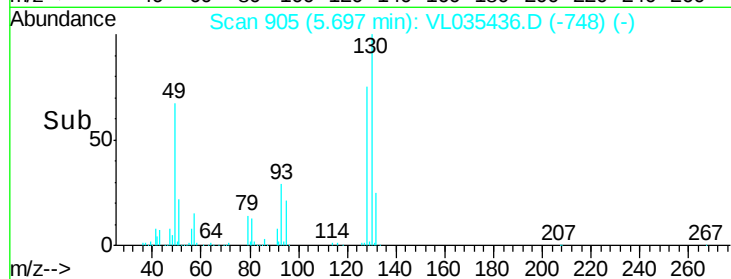
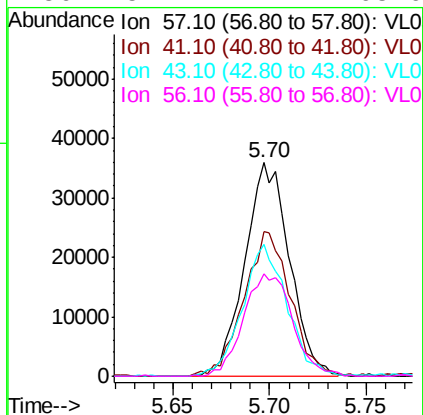
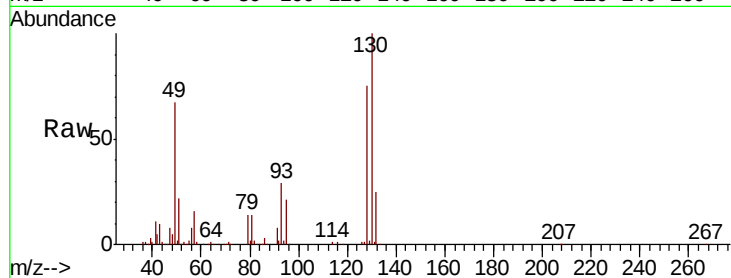




#26
Hexane
Concen: 0.398 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL035436.D
Acq: 18 Aug 2020 8:42

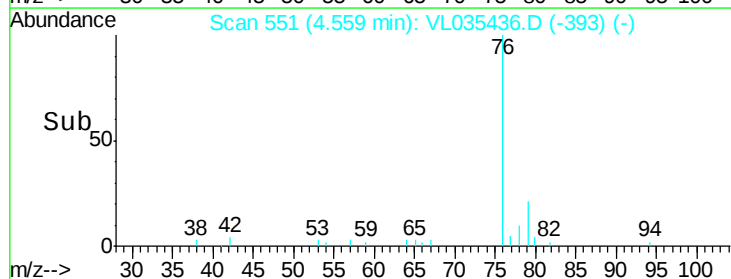
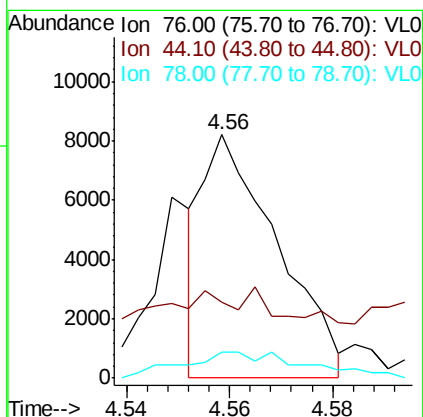
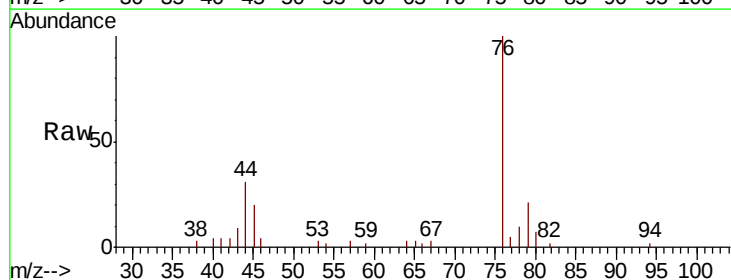
Instrument :
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DR-1DLDP

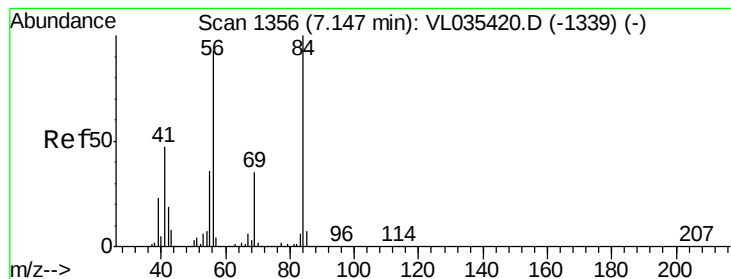
Tot Ion: 57 Resp: 58025
Ion Ratio Lower Upper
57 100
41 70.4 75.5 113.3#
43 62.3 181.7 272.5#
56 52.1 42.4 63.6



#27
Carbon Disulfide
Concen: 0.039 ppbv
RT: 4.56 min Scan# 551
Delta R.T. 0.01 min
Lab File: VL035436.D
Acq: 18 Aug 2020 8:42

Tgt Ion: 76 Resp: 8216
Ion Ratio Lower Upper
76 100
44 32.6 16.8 25.2#
78 19.0 7.3 10.9#





#30

Cvclohexane

Concen: 0.043 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. 0.01 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Instrument :

MSVOA_L

ClientSampleId :

DR-1DLDP

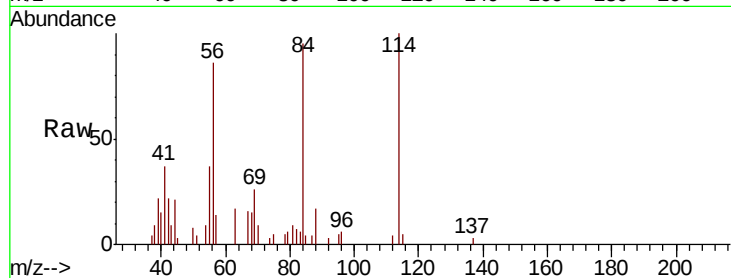
Tot Ion: 84 Resp: 6976

Ion Ratio Lower Upper

84 100

56 0.0 114.9 172.3#

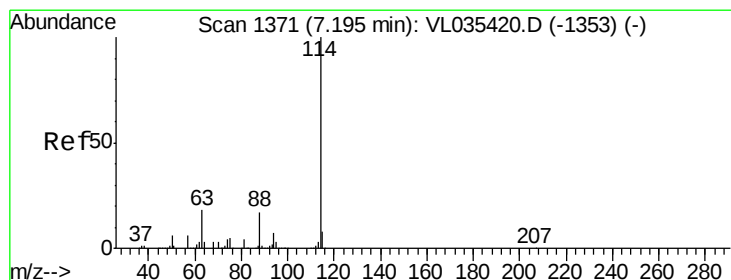
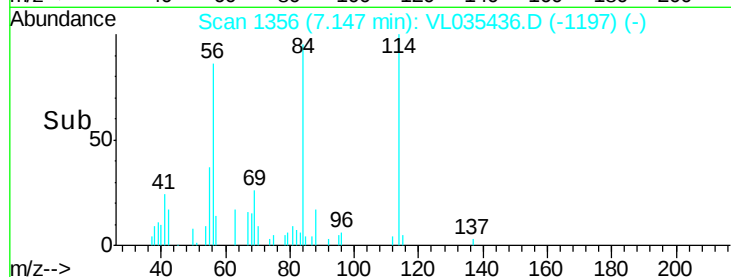
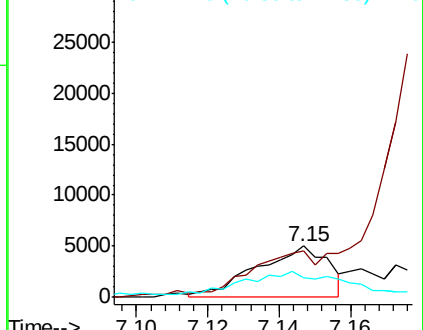
41 92.7 72.3 108.5



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

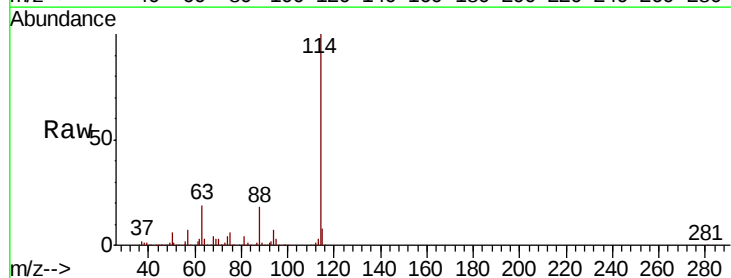
Tgt Ion: 114 Resp: 5247680

Ion Ratio Lower Upper

114 100

63 17.4 23.1 34.7#

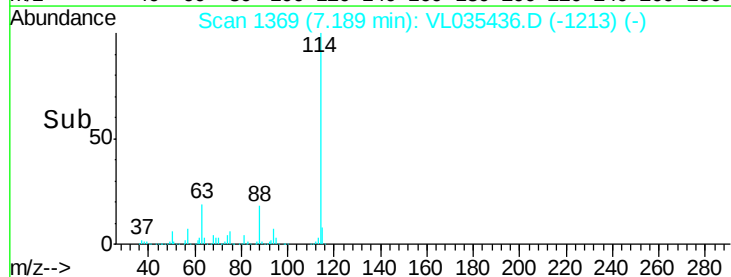
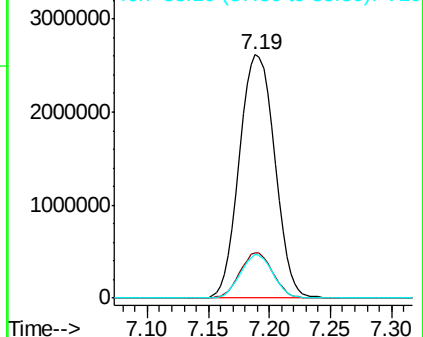
88 16.6 15.9 23.9

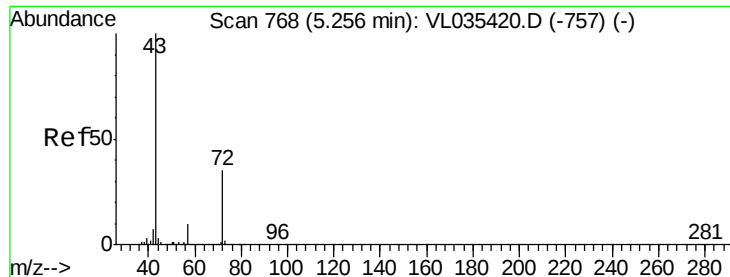


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

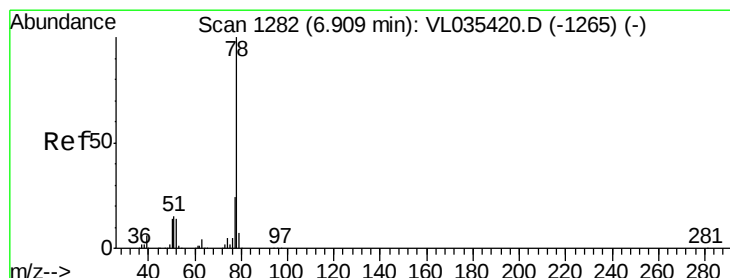
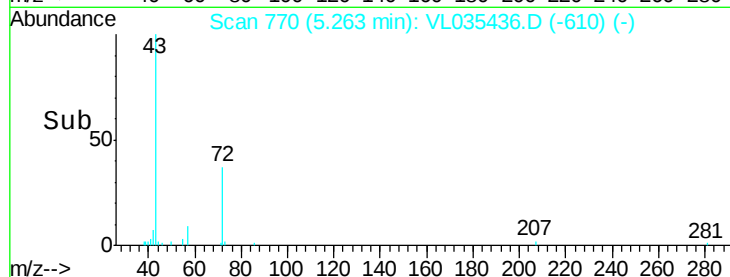
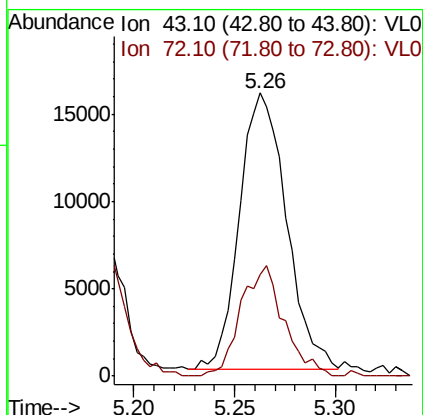
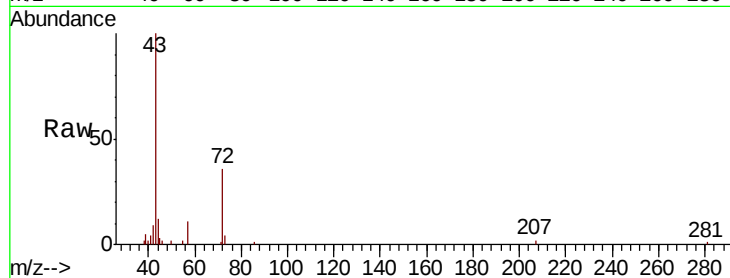




#34
 2-Butanone
 Concen: 0.148 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. 0.01 min
 Lab File: VL035436.D
 Acq: 18 Aug 2020 8:42

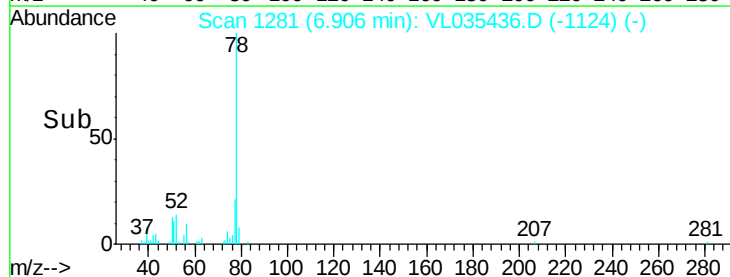
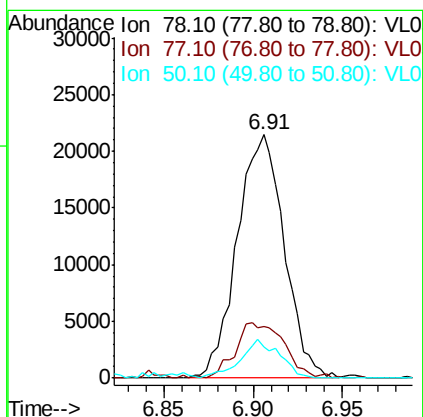
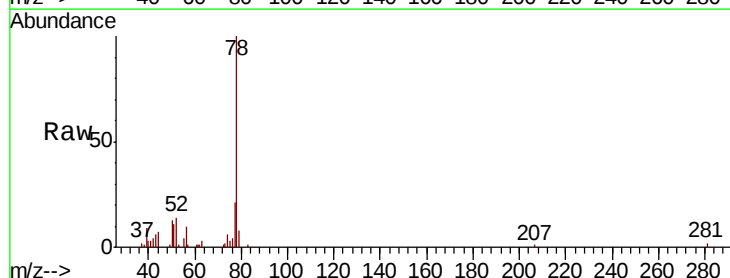
Instrument :
 MSVOA_L
 ClientSampleId :
 DR-1DLDP

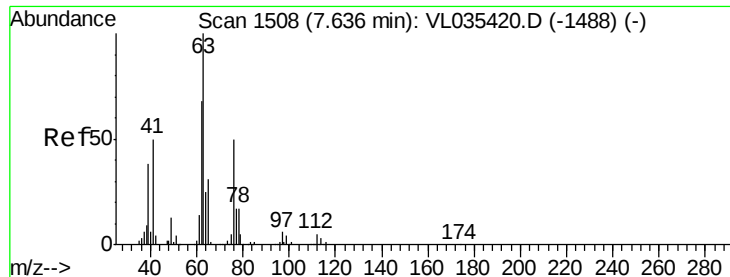
Tot Ion: 43 Resp: 25918
 Ion Ratio Lower Upper
 43 100
 72 36.9 17.6 26.4#



#36
 Benzene
 Concen: 0.103 ppbv
 RT: 6.91 min Scan# 1281
 Delta R.T. 0.00 min
 Lab File: VL035436.D
 Acq: 18 Aug 2020 8:42

Tgt Ion: 78 Resp: 39493
 Ion Ratio Lower Upper
 78 100
 77 21.0 19.6 29.4
 50 12.7 16.3 24.5#





#39

1,2-Dichloropropane

Concen: 7.167 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.44 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Instrument :

MSVOA_L

ClientSampleId :

DR-1DLDP

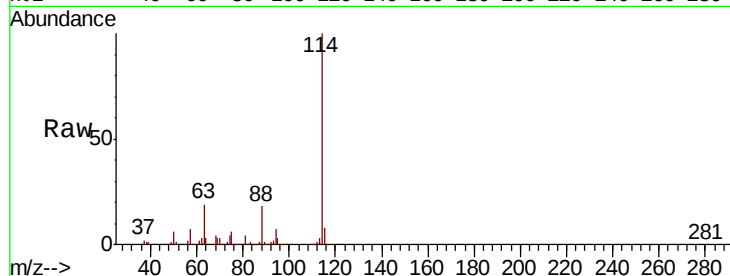
Tot Ion: 63 Resp: 909748

Ion Ratio Lower Upper

63 100

41 0.0 61.1 91.7#

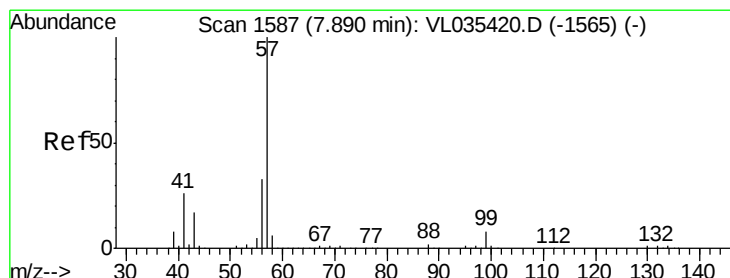
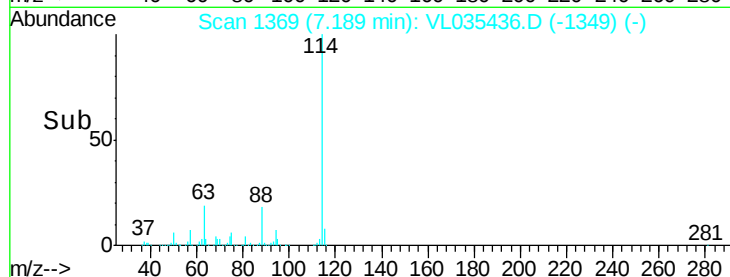
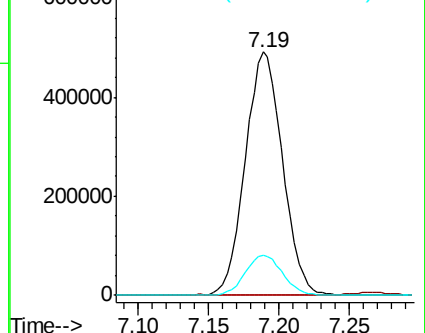
62 16.7 55.3 82.9#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.123 ppbv

RT: 7.89 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

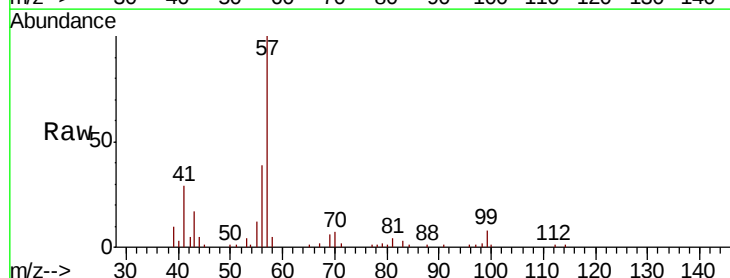
Tgt Ion: 57 Resp: 61958

Ion Ratio Lower Upper

57 100

41 31.8 27.2 40.8

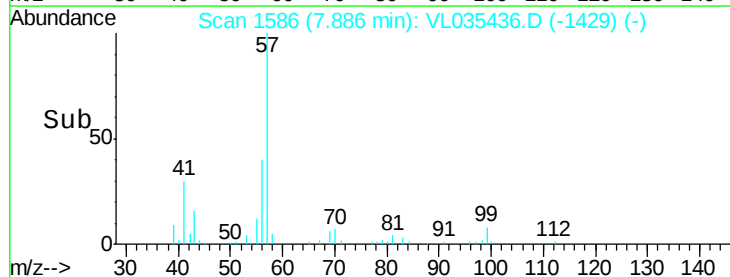
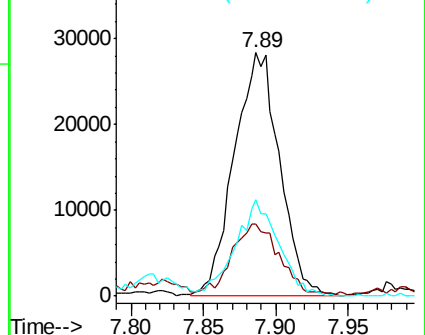
56 37.6 25.4 38.0

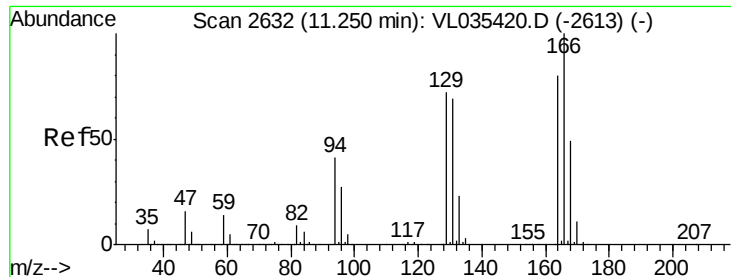


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#52

Tetrachloroethene

Concen: 0.155 ppbv

RT: 11.25 min Scan# 2631

Delta R.T. 0.00 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Instrument :

MSVOA_L

ClientSampleId :

DR-1DLDP

Tot Ion:164 Resp: 36321

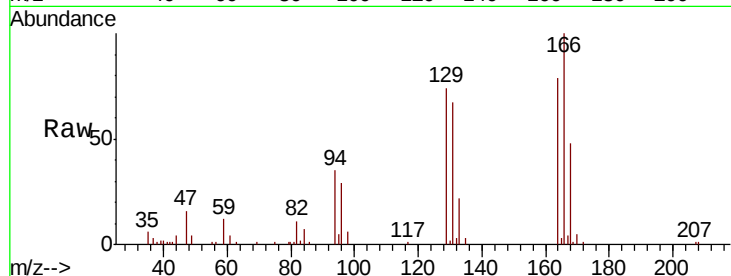
Ion Ratio Lower Upper

164 100

166 126.9 103.4 155.0

129 93.8 90.2 135.4

131 84.7 91.7 137.5#

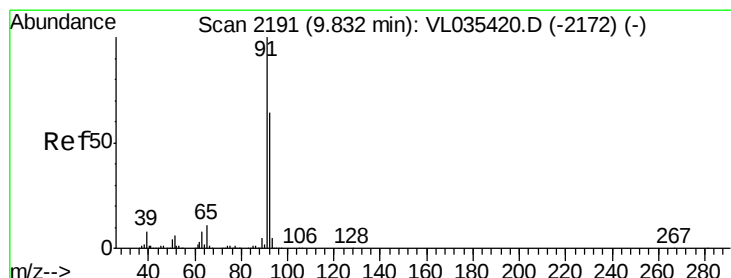
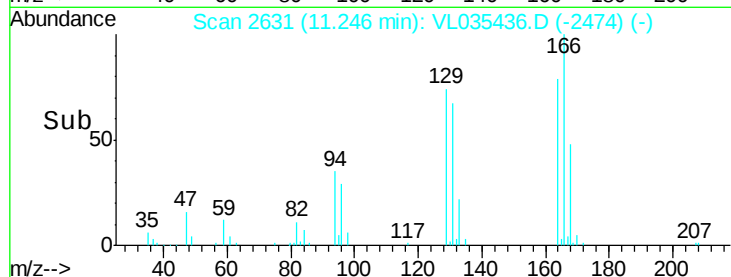
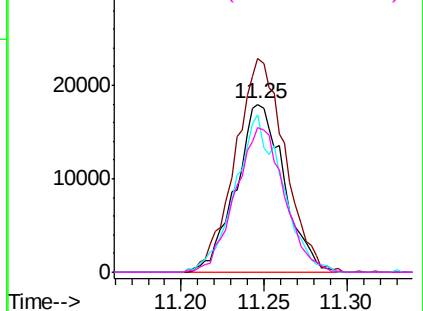


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.602 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. 0.00 min

Lab File: VL035436.D

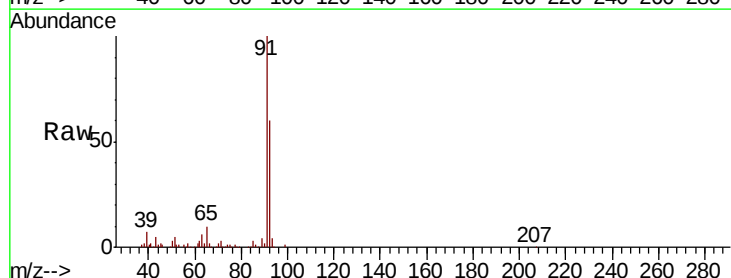
Acq: 18 Aug 2020 8:42

Tgt Ion: 91 Resp: 298810

Ion Ratio Lower Upper

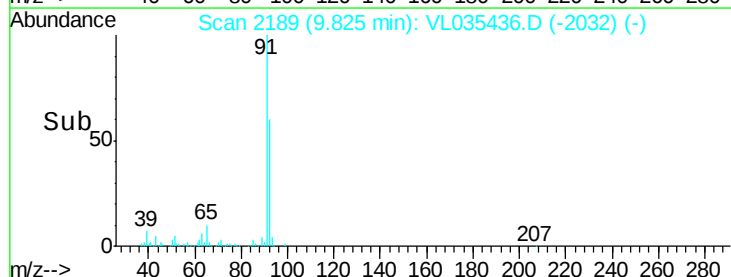
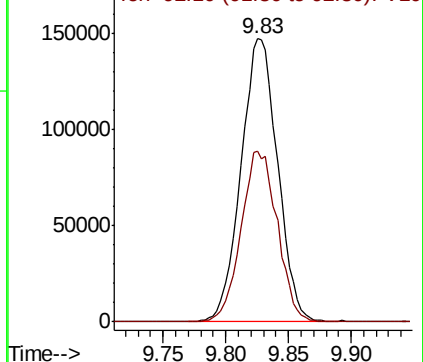
91 100

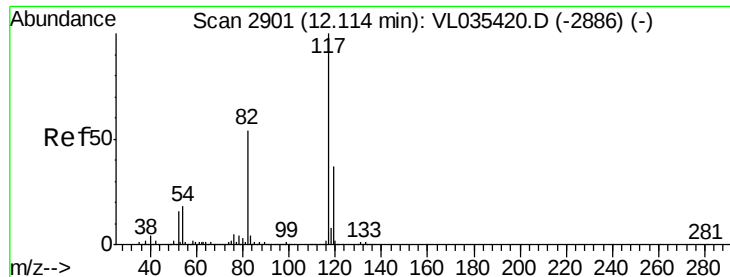
92 59.8 49.1 73.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

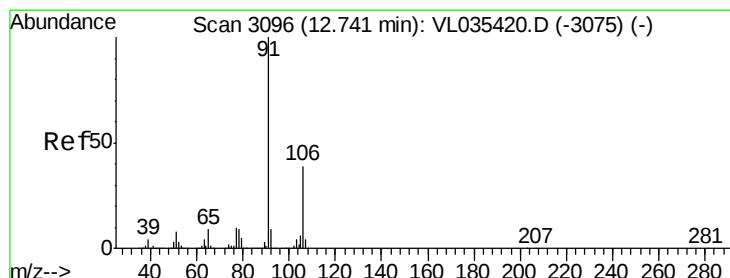
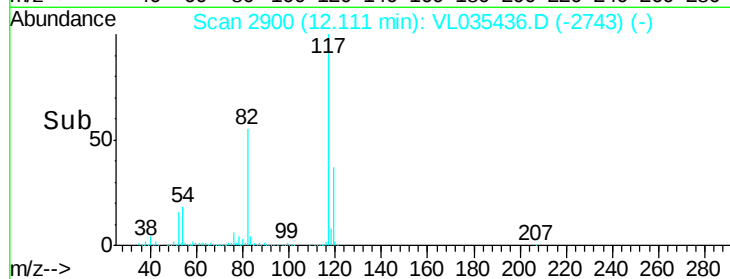
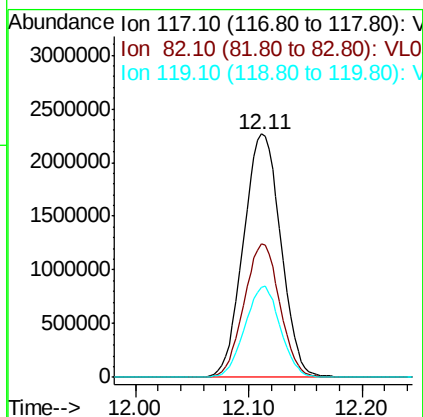
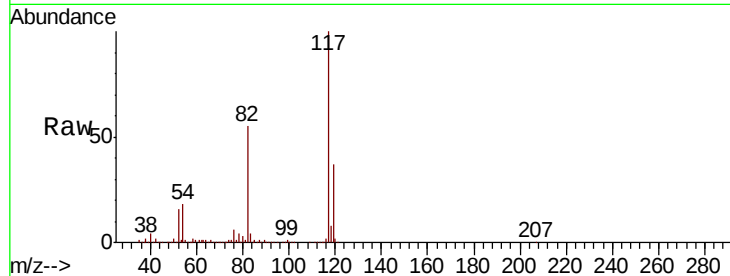




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. 0.00 min
Lab File: VL035436.D
Acq: 18 Aug 2020 8:42

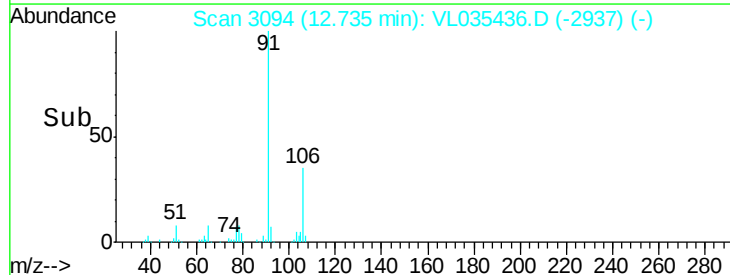
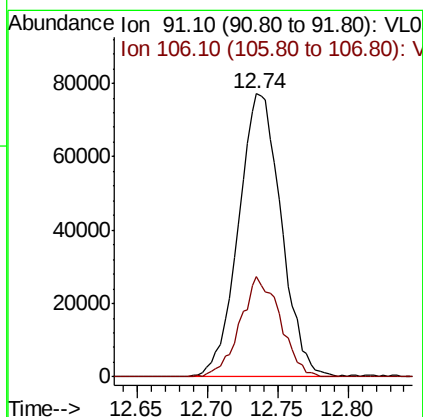
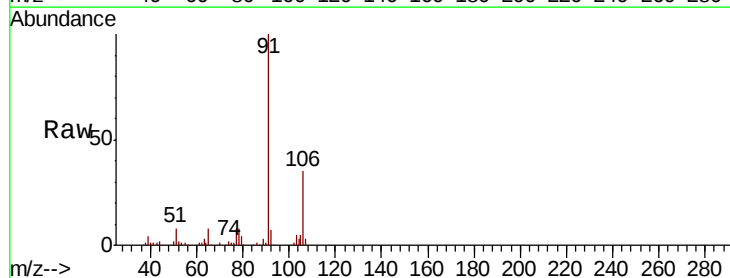
Instrument :
MSVOA_L
ClientSampleId :
DR-1DLDP

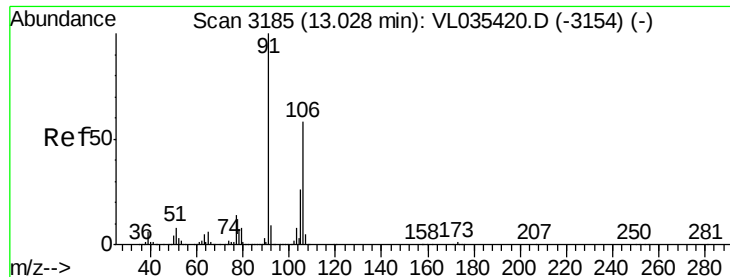
Tot Ion:117 Resp: 5211670
Ion Ratio Lower Upper
117 100
82 52.7 57.4 86.0#
119 35.5 28.4 42.6



#58
Ethyl Benzene
Concen: 0.260 ppbv
RT: 12.74 min Scan# 3094
Delta R.T. 0.00 min
Lab File: VL035436.D
Acq: 18 Aug 2020 8:42

Tgt Ion: 91 Resp: 163567
Ion Ratio Lower Upper
91 100
106 35.5 24.1 36.1





#59

m/p-Xylene

Concen: 0.919 ppbv

RT: 13.00 min Scan# 3175

Delta R.T. -0.03 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Instrument :

MSVOA_L

ClientSampleId :

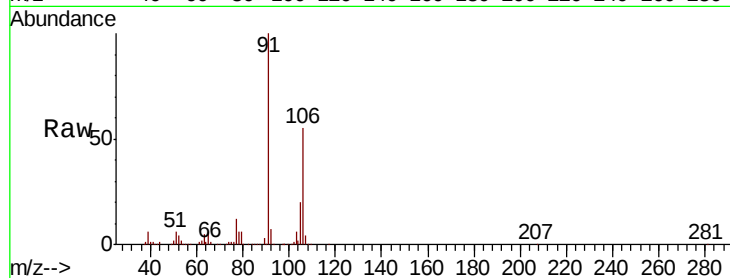
DR-1DLDP

Tot Ion: 91 Resp: 488811

Ion Ratio Lower Upper

91 100

106 53.0 34.0 51.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.00

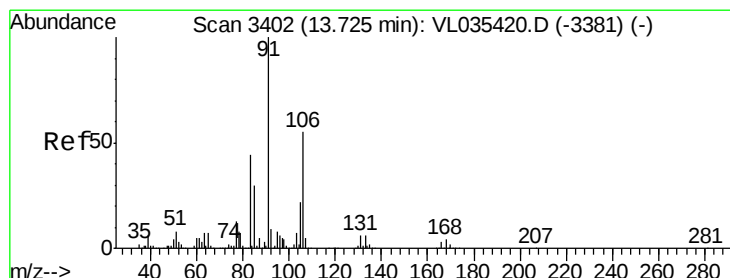
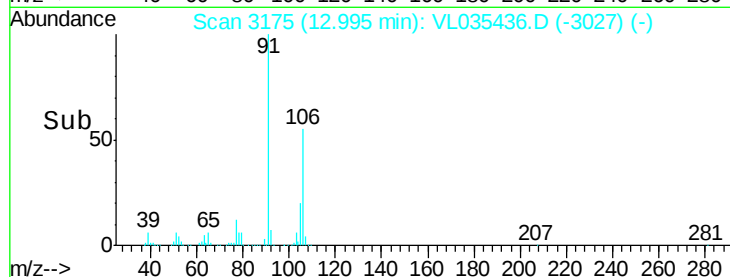
150000

100000

50000

0

Time-->



#60

o-Xylene

Concen: 0.404 ppbv

RT: 13.72 min Scan# 3401

Delta R.T. 0.01 min

Lab File: VL035436.D

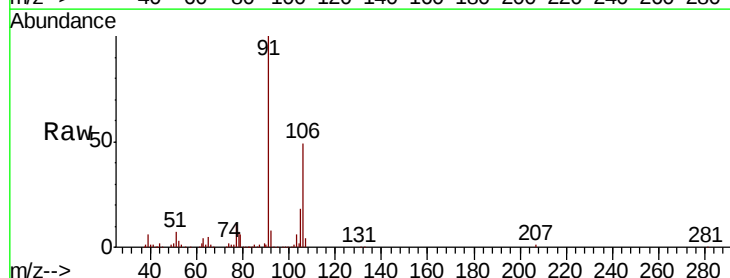
Acq: 18 Aug 2020 8:42

Tgt Ion: 91 Resp: 209037

Ion Ratio Lower Upper

91 100

106 50.7 21.8 65.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.72

100000

80000

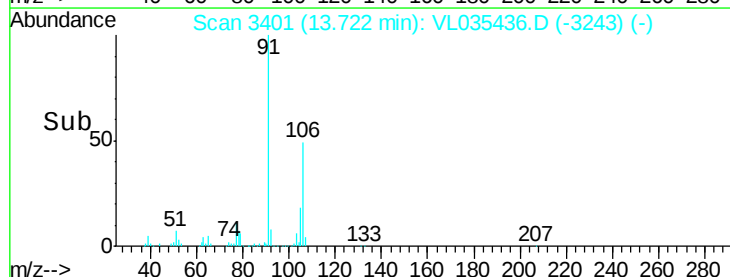
60000

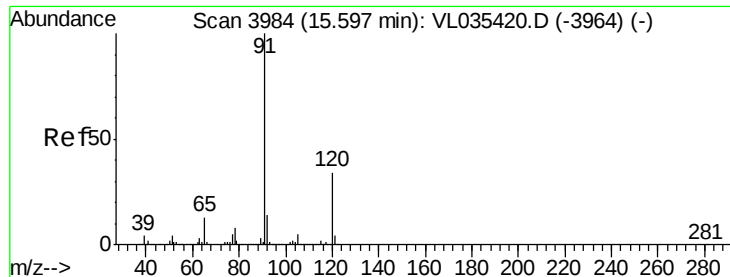
40000

20000

0

Time-->





#64

n-propylbenzene

Concen: 0.142 ppbv

RT: 15.60 min Scan# 3984

Delta R.T. 0.01 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Instrument :

MSVOA_L

ClientSampleId :

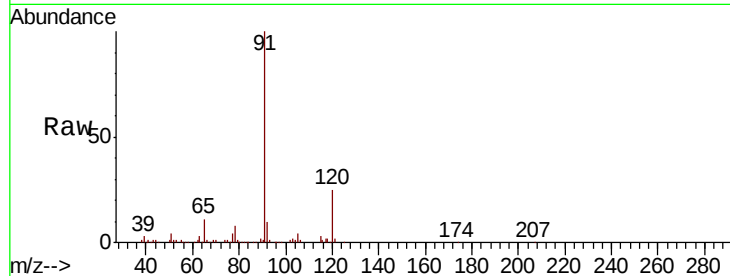
DR-1DLDP

Tot Ion:120 Resp: 37050

Ion Ratio Lower Upper

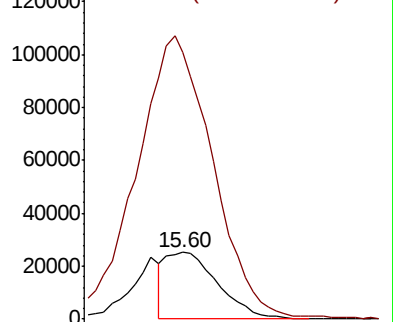
120 100

91 624.0 385.5 578.3#

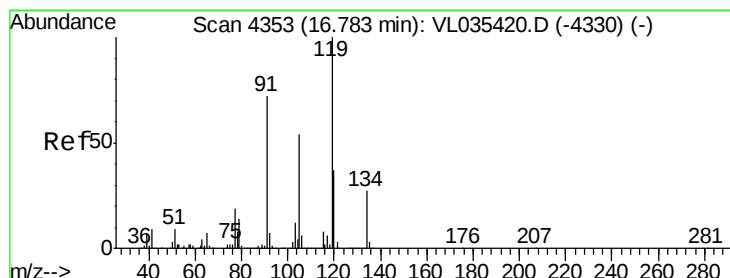
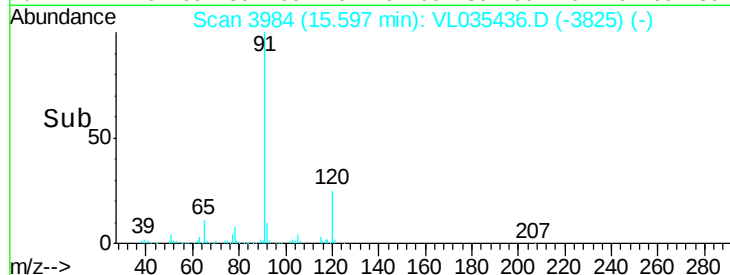


Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



Time-->



#65

tert-Butylbenzene

Concen: 0.170 ppbv

RT: 16.79 min Scan# 4356

Delta R.T. 0.02 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

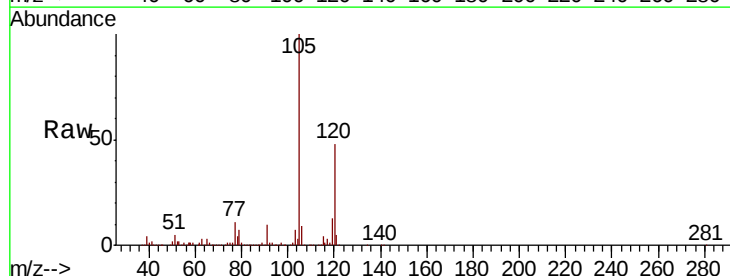
Tgt Ion:119 Resp: 140052

Ion Ratio Lower Upper

119 100

91 82.9 72.0 108.0

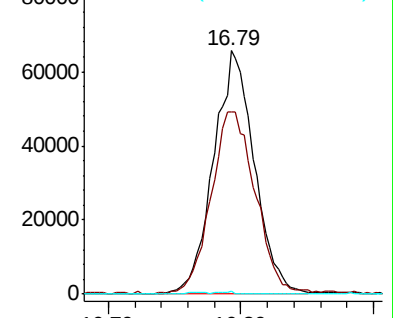
134 0.9 15.7 23.5#



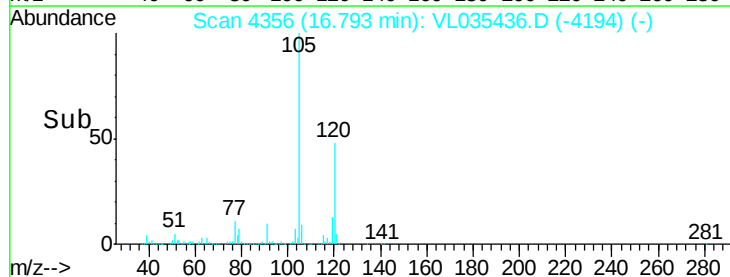
Abundance Ion 119.20 (118.90 to 119.90): V

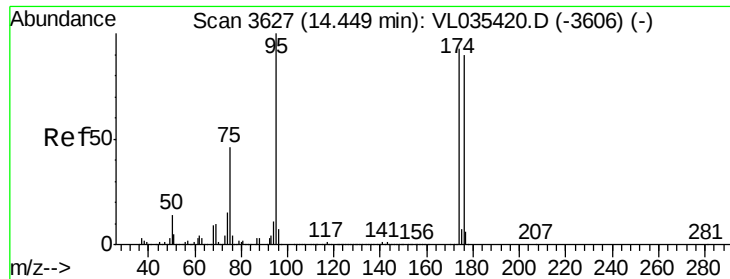
Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



Time-->





#68

1-Bromo-4-Fluorobenzene

Concen: 10.390 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. 0.01 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Instrument :

MSVOA_L

ClientSampleId :

DR-1DLDP

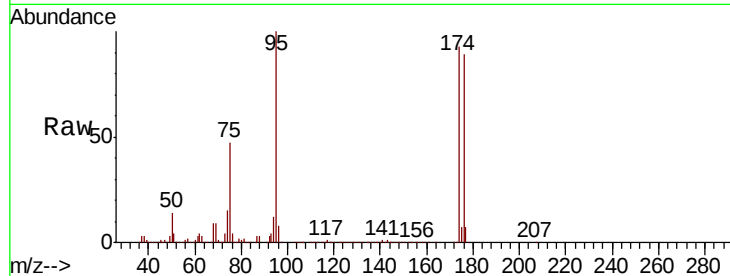
Tot Ion: 95 Resp: 3791025

Ion Ratio Lower Upper

95 100

174 93.0 44.0 66.0#

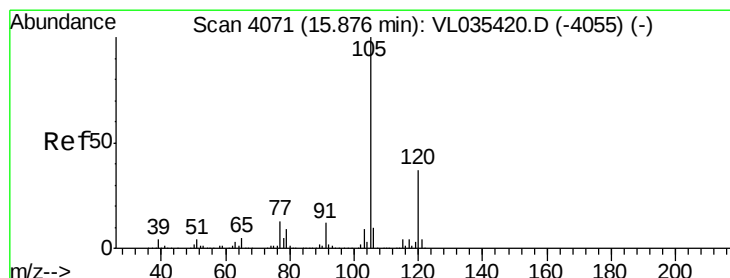
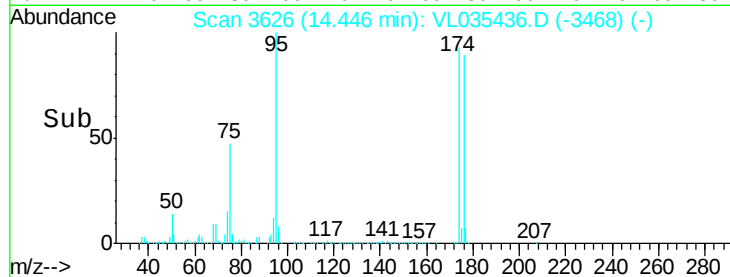
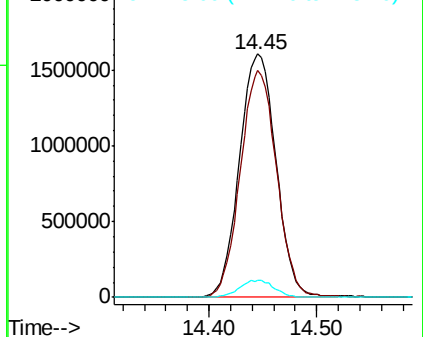
175 6.8 3.2 4.8#



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#72

4-Ethyltoluene

Concen: 0.509 ppbv

RT: 15.87 min Scan# 4070

Delta R.T. 0.01 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Tgt Ion: 105 Resp: 345533

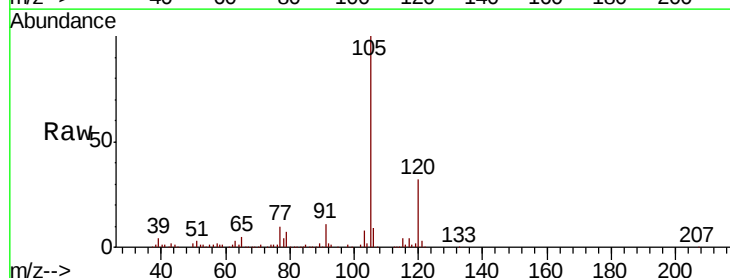
Ion Ratio Lower Upper

105 100

120 34.3 22.7 34.1#

91 11.5 10.8 16.2

77 10.9 11.9 17.9#

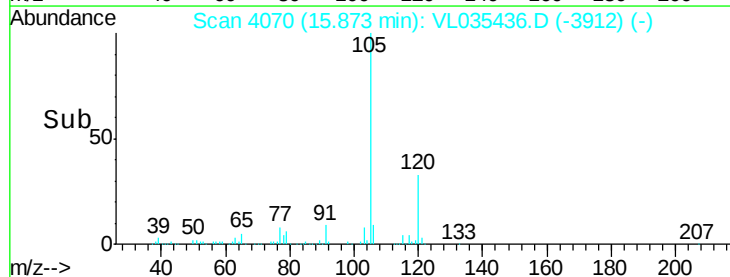
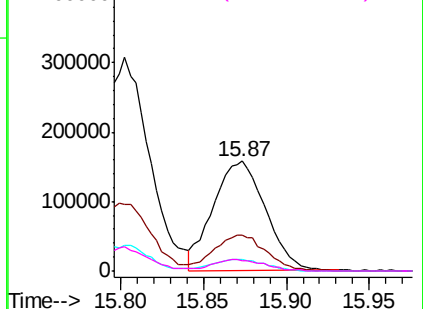


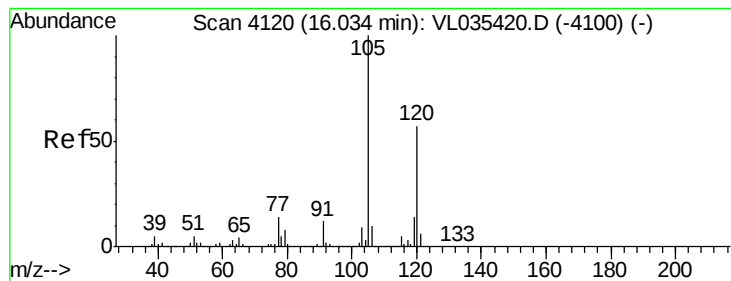
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 0.429 ppbv

RT: 16.03 min Scan# 4119

Delta R.T. 0.00 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Instrument :

MSVOA_L

ClientSampleId :

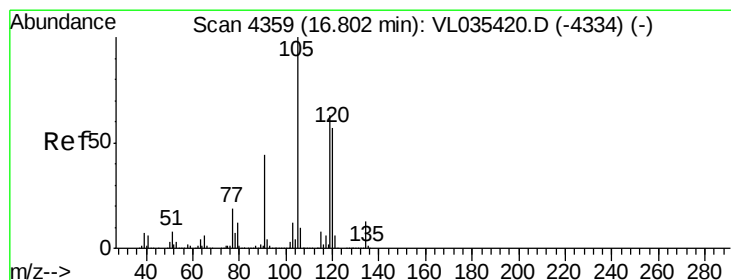
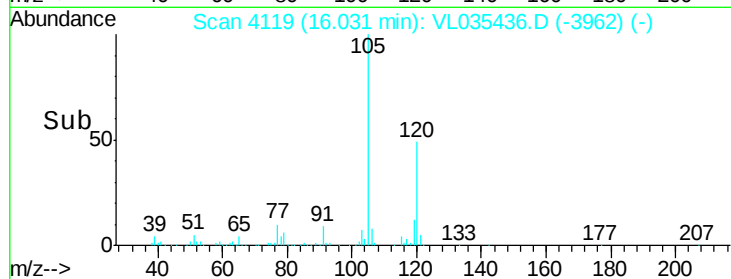
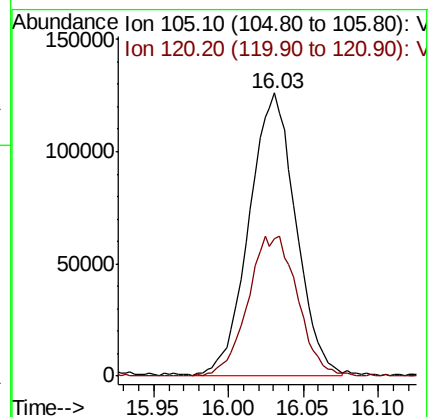
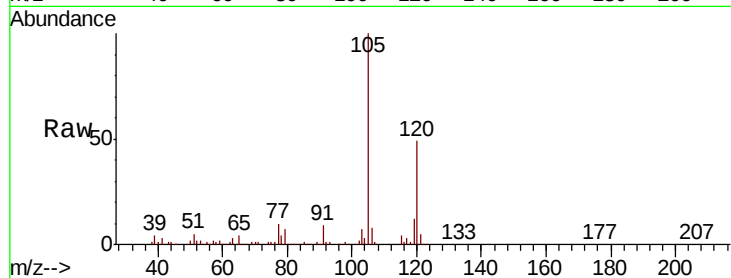
DR-1DLDP

Tot Ion:105 Resp: 270762

Ion Ratio Lower Upper

105 100

120 48.5 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 1.626 ppbv

RT: 16.79 min Scan# 4356

Delta R.T. 0.00 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Tgt Ion:105 Resp: 1115201

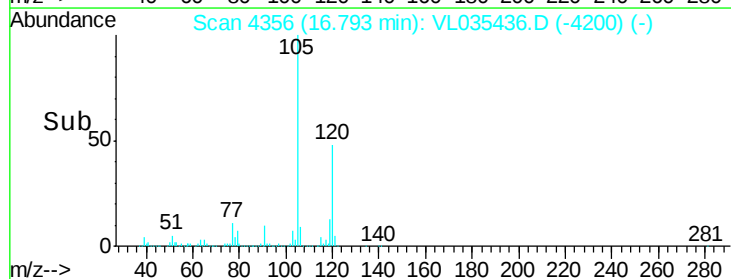
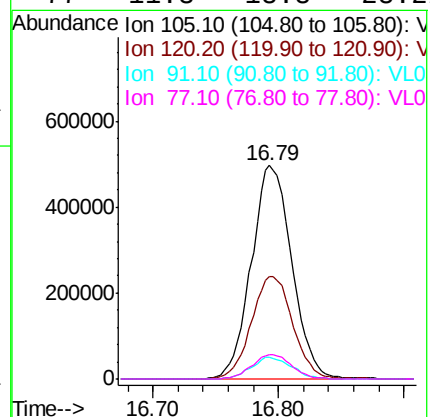
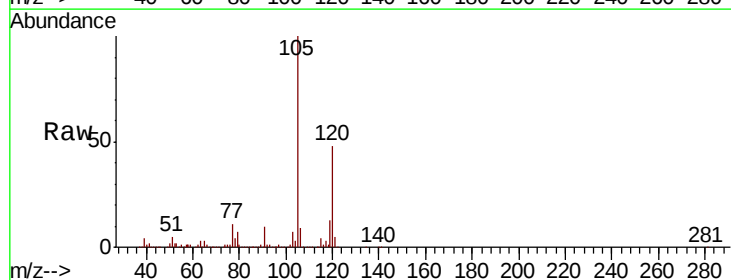
Ion Ratio Lower Upper

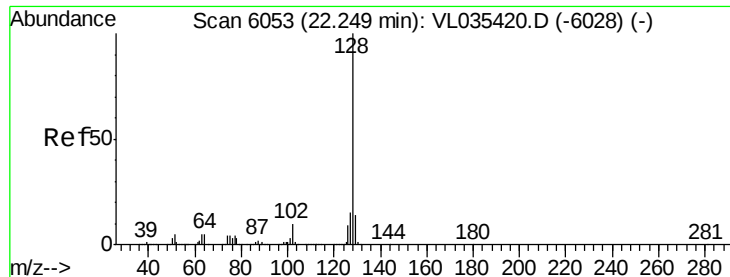
105 100

120 47.8 37.8 56.8

91 9.9 40.0 60.0#

77 11.3 18.8 28.2#





#79

Naphthalene

Concen: 0.051 ppbv

RT: 22.25 min Scan# 6053

Delta R.T. 0.01 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

Instrument :

MSVOA_L

ClientSampleId :

DR-1DLDP

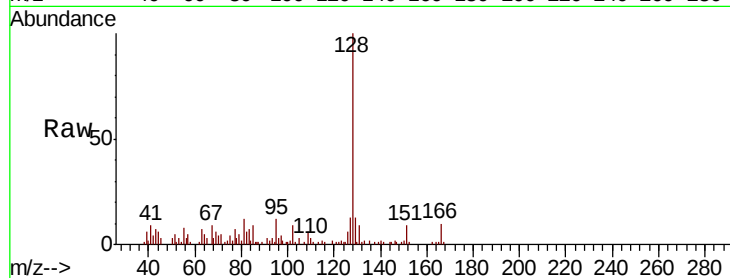
Tot Ion:128 Resp: 49037

Ion Ratio Lower Upper

128 100

127 12.9 11.4 17.0

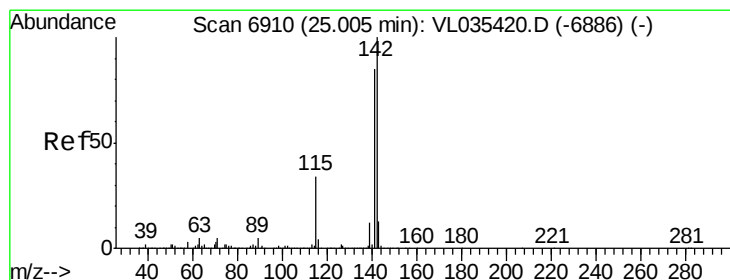
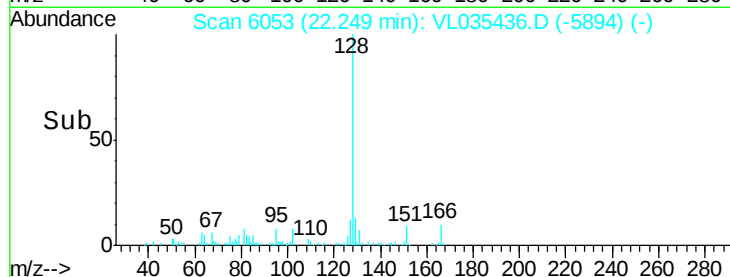
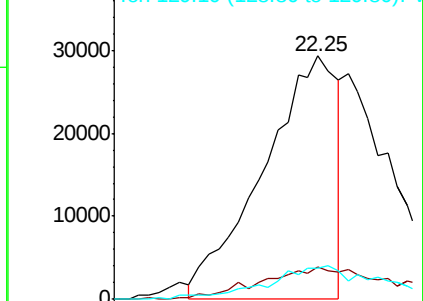
129 11.8 9.5 14.3



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



#80

Naphthalene, 2-methyl-

Concen: 0.055 ppbv

RT: 25.01 min Scan# 6913

Delta R.T. 0.02 min

Lab File: VL035436.D

Acq: 18 Aug 2020 8:42

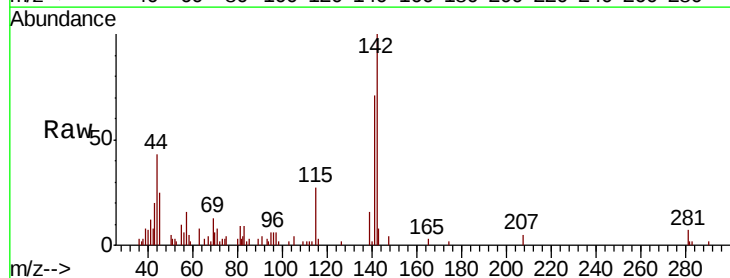
Tgt Ion:142 Resp: 21951

Ion Ratio Lower Upper

142 100

141 80.1 67.1 100.7

115 40.4 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

