

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040721\
 Data File : VL036738.D
 Acq On : 7 Apr 2021 22:40
 Operator : SY/AP
 Sample : M1929-07DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FS-SV01DL

Quant Time: Apr 08 02:43:45 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr 08 01:58:43 2021
 QLast Update : Thu Apr 08 01:58:43 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1228454	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3069719	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	2750796	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2136624	9.75	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.50%

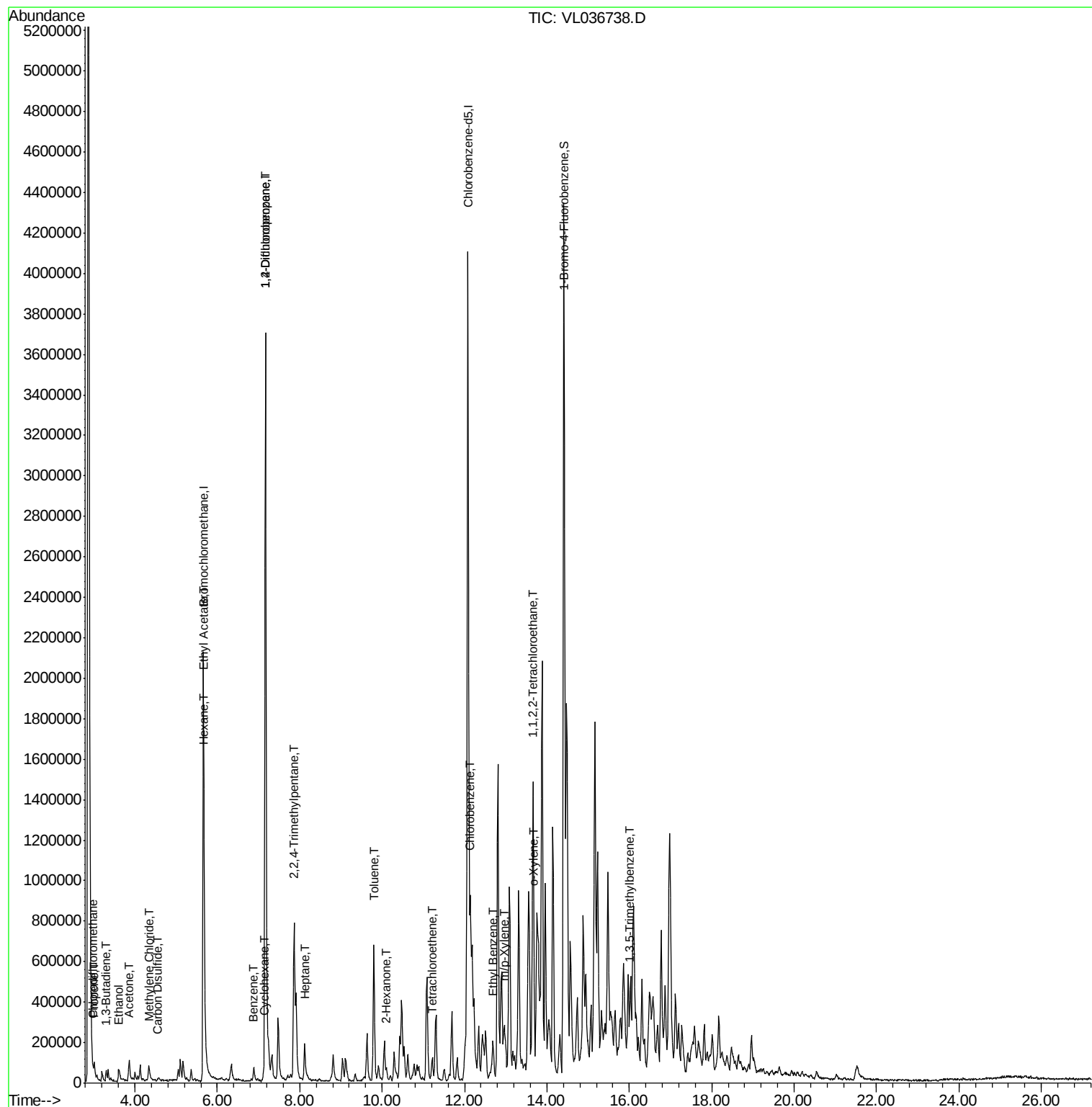
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.98	51	24295	0.106 ppbv	99
9) Propene	3.00	41	15479	0.212 ppbv #	25
10) Heptane	8.12	43	64771	0.347 ppbv #	79
13) Ethanol	3.61	45	36837	4.228 ppbv #	1
15) Acetone	3.85	43	36095	0.299 ppbv #	48
16) 1,3-Butadiene	3.30	39	7252	0.086 ppbv #	13
20) Methylene Chloride	4.33	84	9493	0.168 ppbv	90
25) Ethyl Acetate	5.68	43	21059	0.073 ppbv #	81
26) Hexane	5.68	57	56963	0.427 ppbv #	46
27) Carbon Disulfide	4.55	76	4924	0.037 ppbv #	60
30) Cyclohexane	7.12	84	4043	0.037 ppbv #	1
36) Benzene	6.89	78	35550	0.126 ppbv	95
39) 1,2-Dichloropropane	7.17	63	805988	7.018 ppbv #	23
44) 2,2,4-Trimethylpentane	7.86	57	851933	1.710 ppbv #	88
51) 2-Hexanone	10.11	43	11479	0.105 ppbv #	30
52) Tetrachloroethene	11.21	164	7690	0.074 ppbv	88
53) Toluene	9.80	91	365966	1.214 ppbv	97
57) Chlorobenzene	12.15	112	8169	0.035 ppbv #	45
58) Ethyl Benzene	12.70	91	23780	0.059 ppbv	99
59) m/p-Xylene	12.96	91	160353	0.459 ppbv	89
60) o-Xylene	13.69	91	90552	0.268 ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	13214	0.051 ppbv #	40
73) 1,3,5-Trimethylbenzene	16.00	105	20364	0.059 ppbv #	79

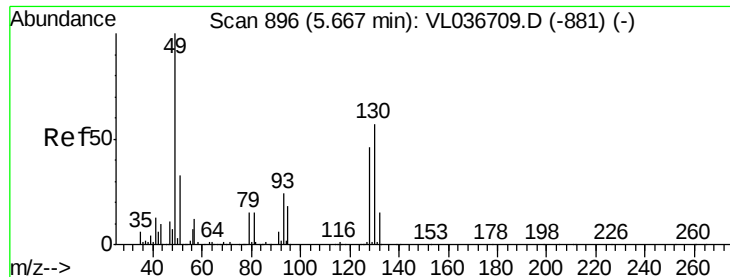
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040721\
Data File : VL036738.D
Acq On : 7 Apr 2021 22:40
Operator : SY/AP
Sample : M1929-07DL 10X
Misc : 400mL/MSVOA L
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
FS-SV01DL

Quant Time: Apr 08 02:43:45 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr 08 01:58:43 2021
QLast Update : Thu Apr 08 01:58:43 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL036738.D

Acq: 7 Apr 2021 22:40

Instrument :

MSVOA_L

ClientSampleID :

FS-SV01DL

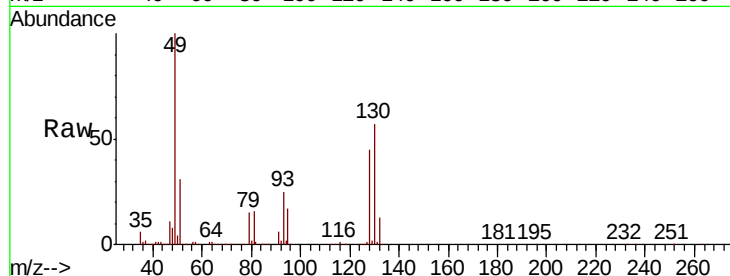
Tot Ion: 49 Resp: 1228454

Ion Ratio Lower Upper

49 100

128 47.7 23.5 70.6

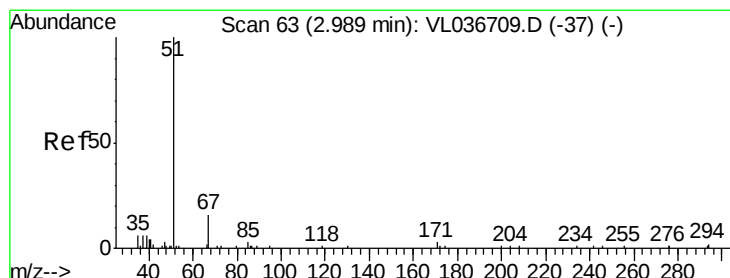
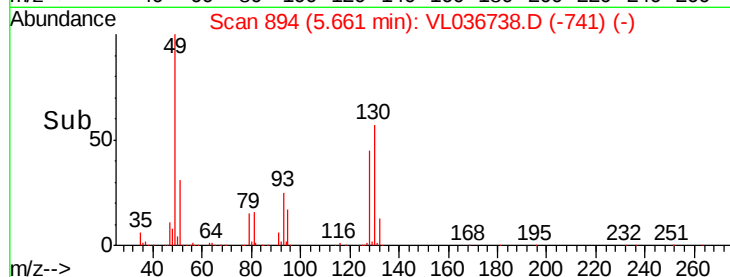
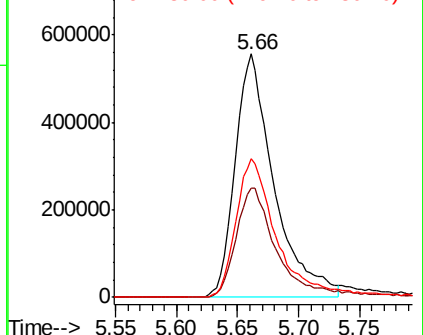
130 60.9 29.1 87.4



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



#3

Chlorodifluoromethane

Concen: 0.106 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL036738.D

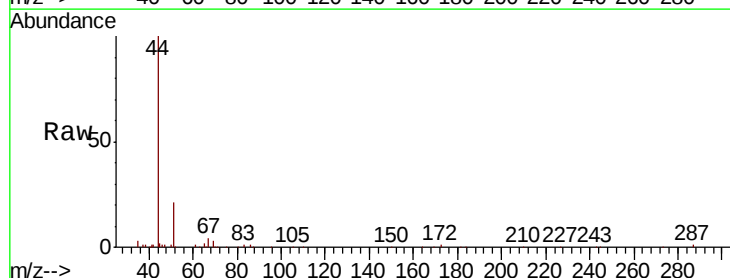
Acq: 7 Apr 2021 22:40

Tgt Ion: 51 Resp: 24295

Ion Ratio Lower Upper

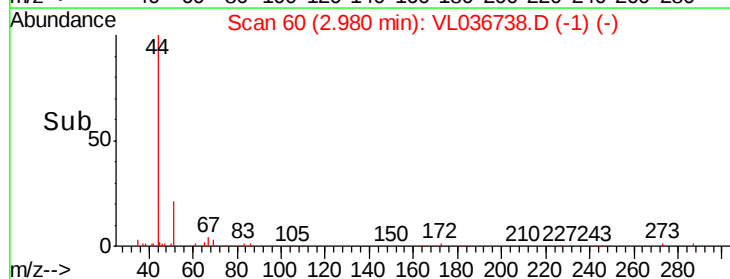
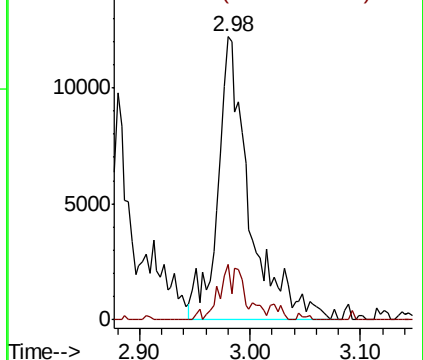
51 100

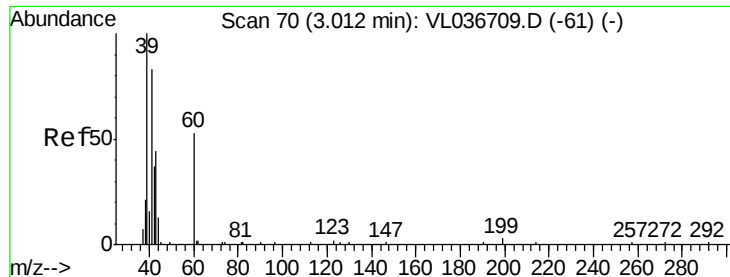
67 18.1 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.212 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL036738.D

Acq: 7 Apr 2021 22:40

Instrument :

MSVOA_L

ClientSampleId :

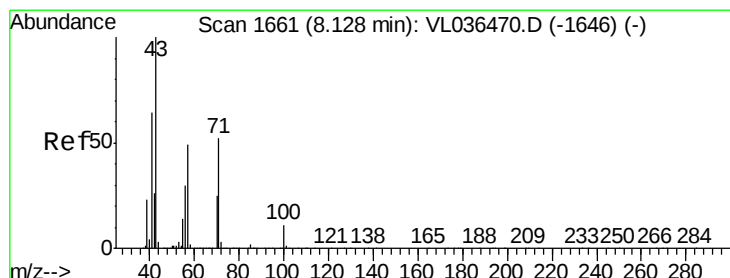
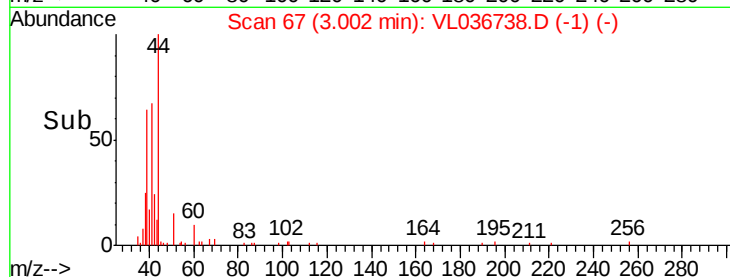
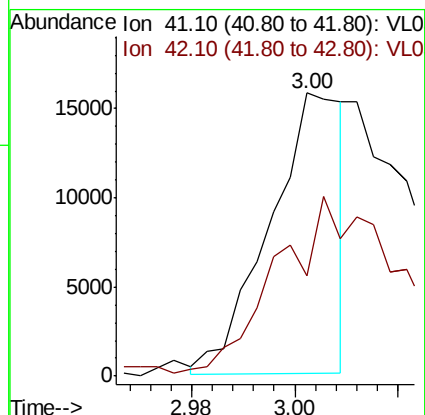
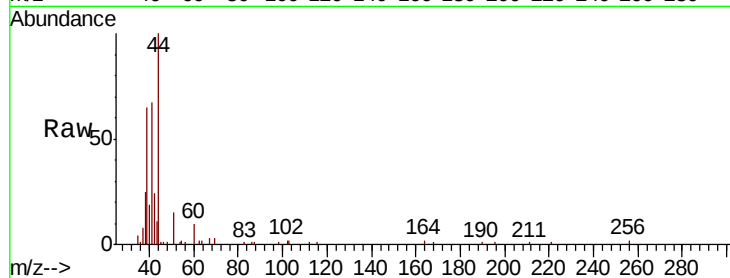
FS-SV01DL

Tot Ion: 41 Resp: 15479

Ion Ratio Lower Upper

41 100

42 132.9 57.0 85.4#



#10

Heptane

Concen: 0.347 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL036738.D

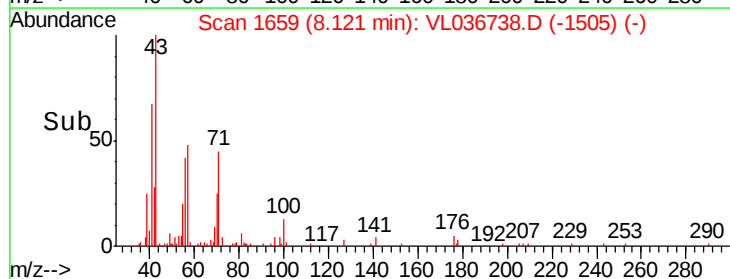
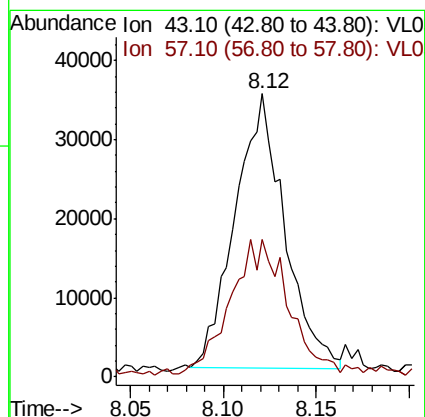
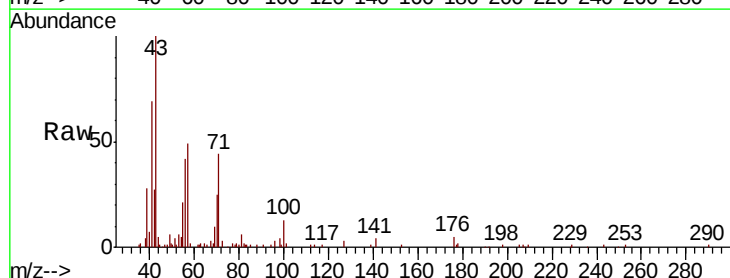
Acq: 7 Apr 2021 22:40

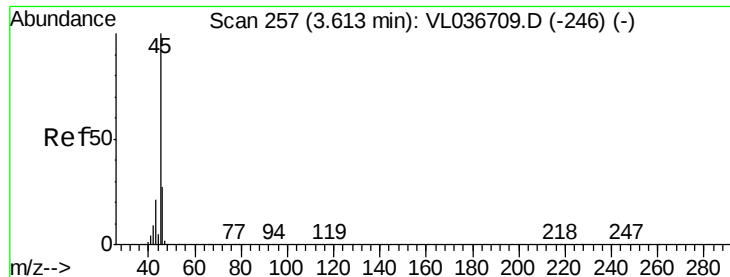
Tgt Ion: 43 Resp: 64771

Ion Ratio Lower Upper

43 100

57 62.9 39.0 58.6#

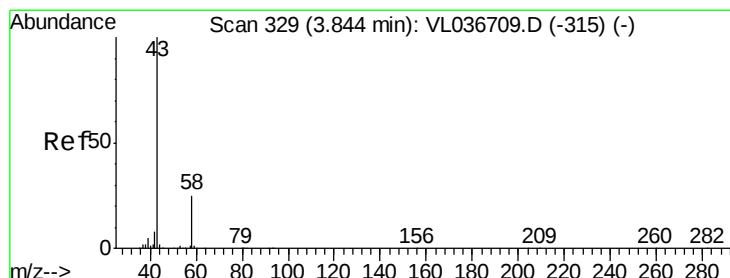
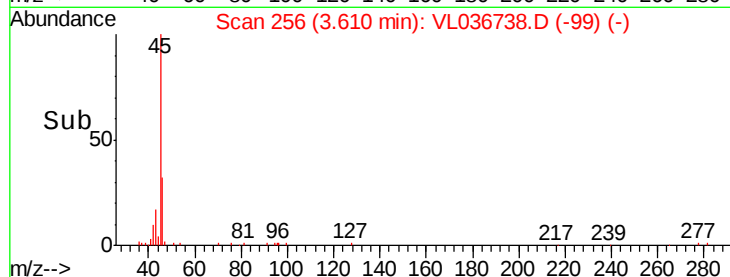
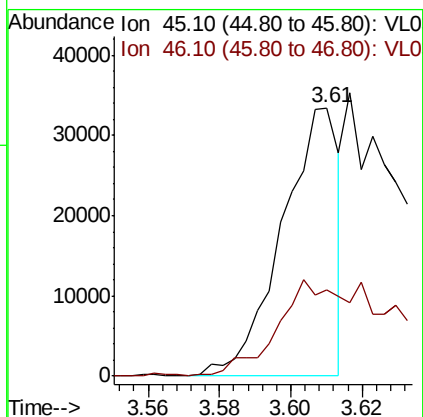
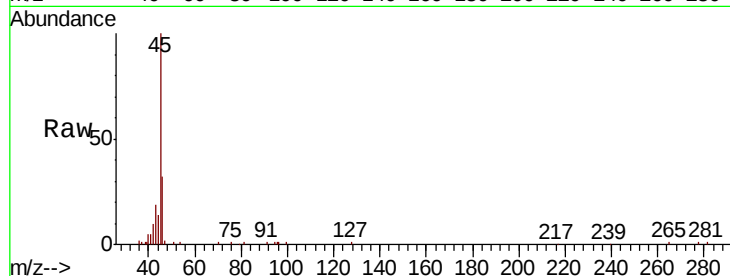




#13
Ethanol
Concen: 4.228 ppbv
RT: 3.61 min Scan# 256
Delta R.T. 0.00 min
Lab File: VL036738.D
Acq: 7 Apr 2021 22:40

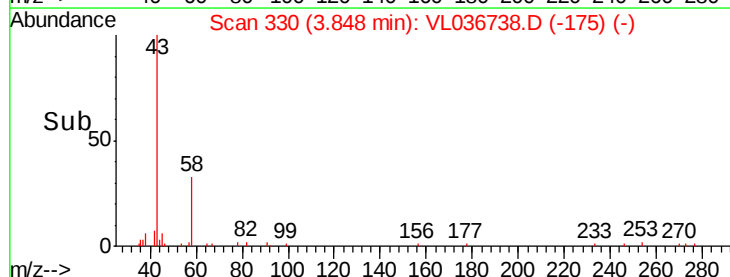
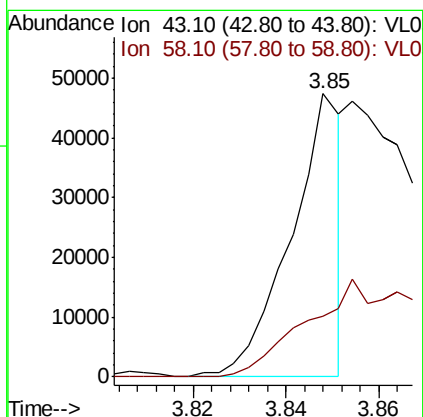
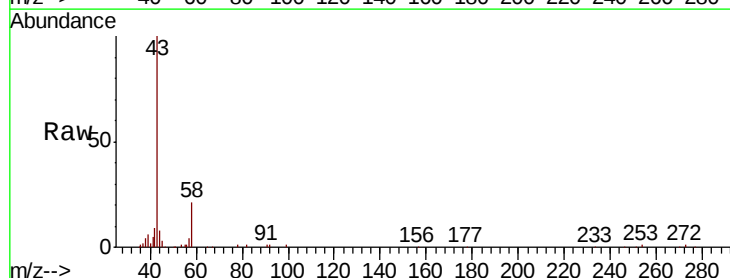
Instrument :
MSVOA_L
ClientSampleId :
FS-SV01DL

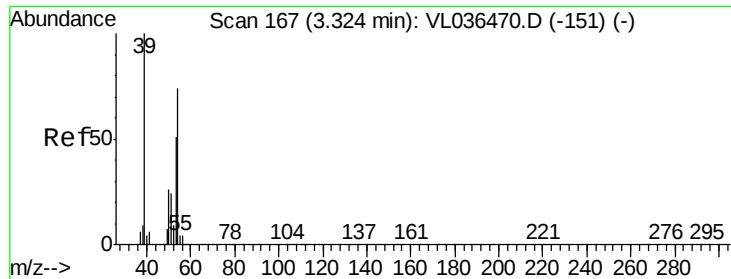
Tot Ion: 45 Resp: 36837
Ion Ratio Lower Upper
45 100
46 105.8 16.6 66.2#



#15
Acetone
Concen: 0.299 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL036738.D
Acq: 7 Apr 2021 22:40

Tgt Ion: 43 Resp: 36095
Ion Ratio Lower Upper
43 100
58 0.0 21.2 31.8#

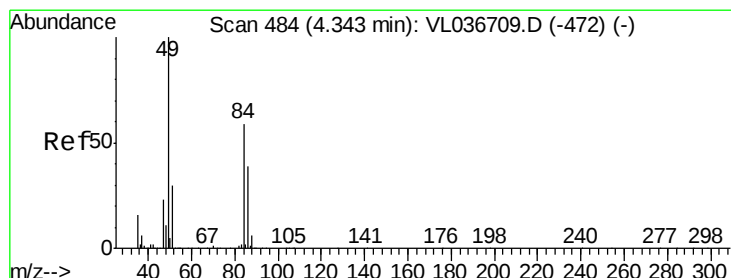
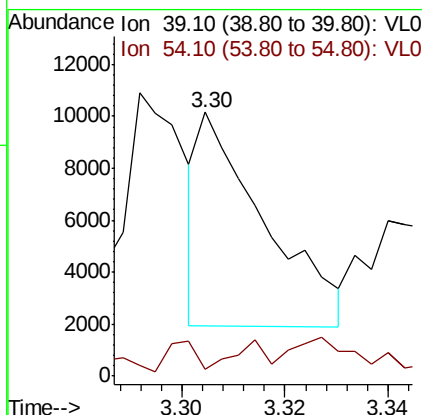
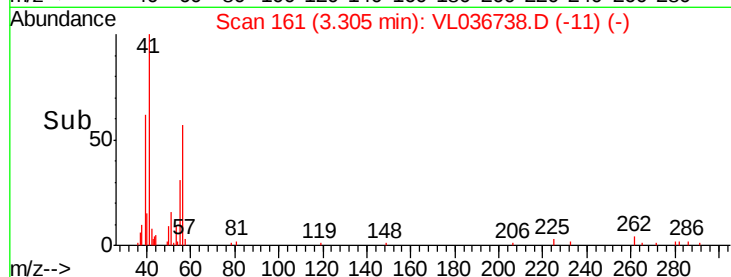
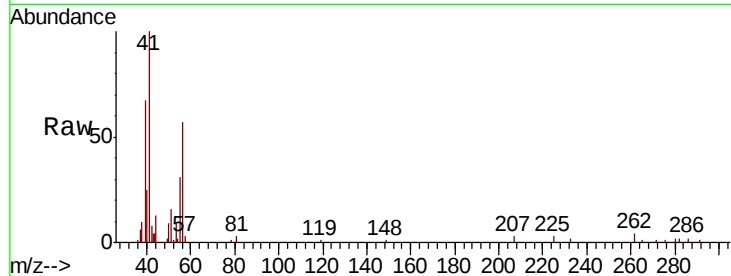




#16
 1,3-Butadiene
 Concen: 0.086 ppbv
 RT: 3.30 min Scan# 161
 Delta R.T. -0.02 min
 Lab File: VL036738.D
 Acq: 7 Apr 2021 22:40

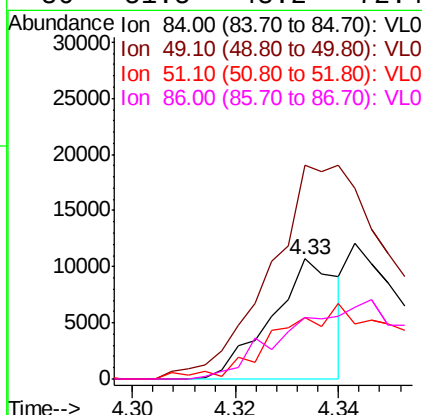
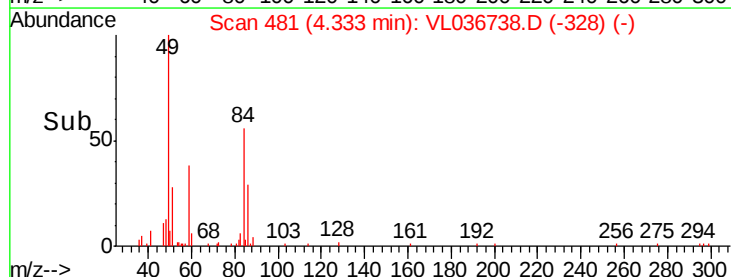
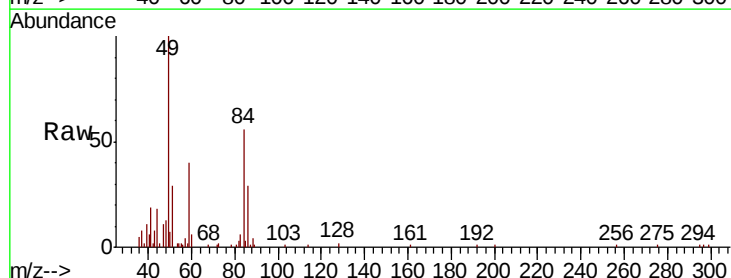
Instrument :
 MSVOA_L
 ClientSampleId :
 FS-SV01DL

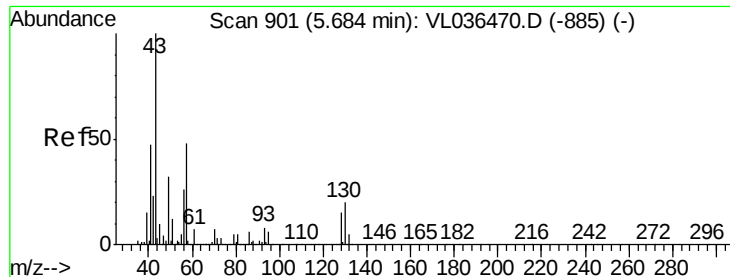
Tot Ion: 39 Resp: 7252
 Ion Ratio Lower Upper
 39 100
 54 0.0 58.8 88.2#



#20
 Methylene Chloride
 Concen: 0.168 ppbv
 RT: 4.33 min Scan# 481
 Delta R.T. -0.01 min
 Lab File: VL036738.D
 Acq: 7 Apr 2021 22:40

Tgt Ion: 84 Resp: 9493
 Ion Ratio Lower Upper
 84 100
 49 168.7 122.9 184.3
 51 48.8 36.9 55.3
 86 51.5 48.2 72.4

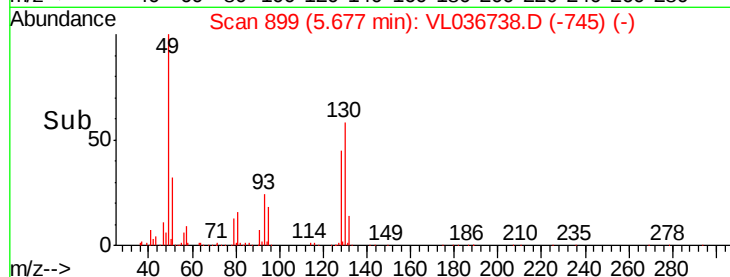
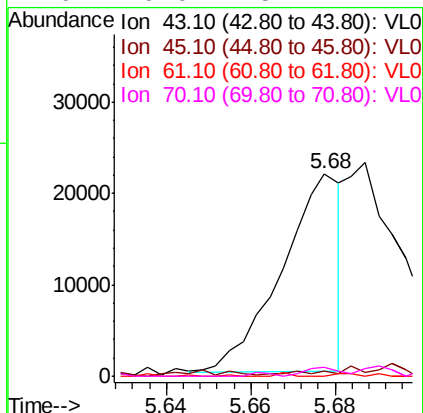
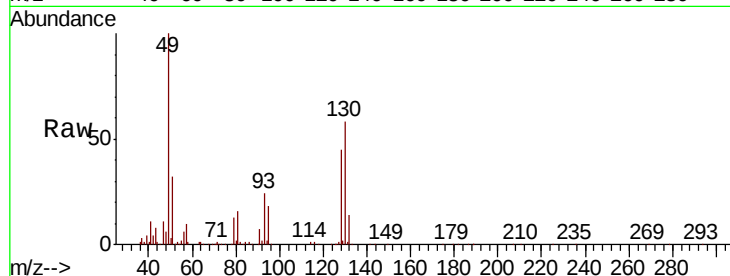




#25
Ethyl Acetate
Concen: 0.073 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL036738.D
Acq: 7 Apr 2021 22:40

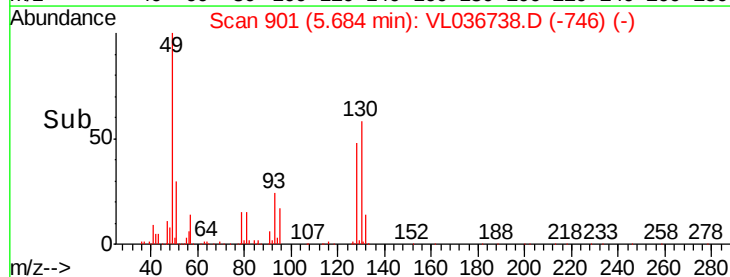
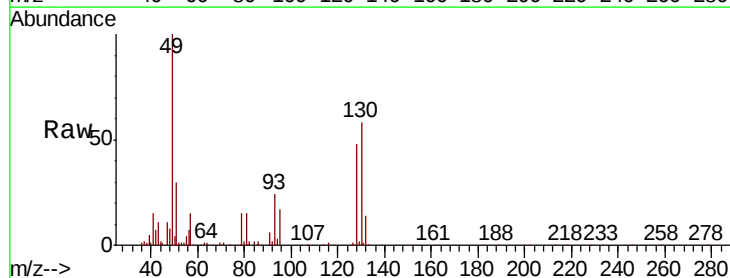
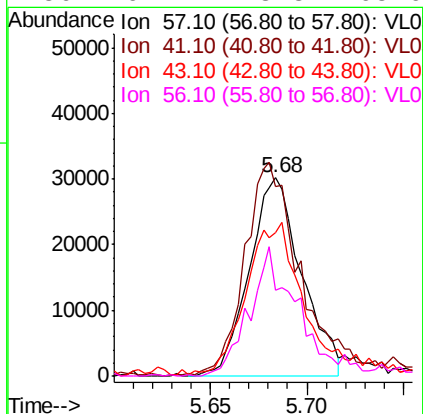
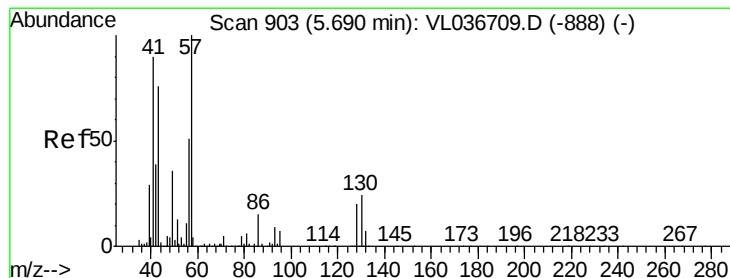
Instrument :
MSVOA_L
ClientSampleID :
FS-SV01DL

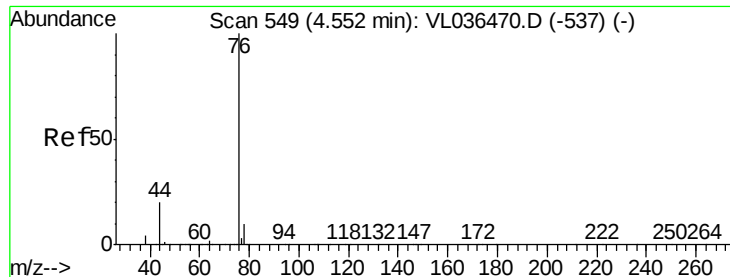
Tot Ion:	43	Resp:	21059
Ion	Ratio	Lower	Upper
43	100		
45	3.7	7.9	11.9#
61	1.0	7.4	11.2#
70	0.0	5.1	7.7#



#26
Hexane
Concen: 0.427 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036738.D
Acq: 7 Apr 2021 22:40

Tgt Ion:	57	Resp:	56963
Ion	Ratio	Lower	Upper
57	100		
41	112.9	77.2	115.8
43	88.9	173.8	260.6#
56	64.2	43.8	65.6





#27

Carbon Disulfide

Concen: 0.037 ppbv

RT: 4.55 min Scan# 549

Delta R.T. 0.00 min

Lab File: VL036738.D

Acq: 7 Apr 2021 22:40

Instrument :

MSVOA_L

ClientSampleID :

FS-SV01DL

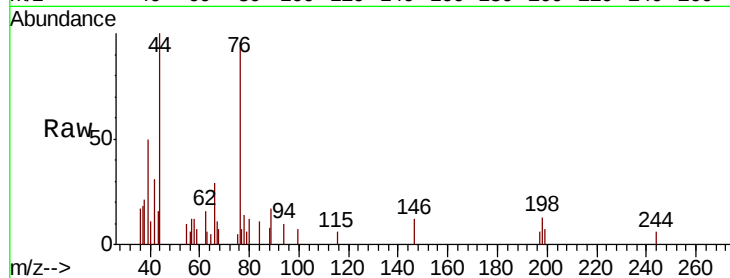
Tot Ion: 76 Resp: 4924

Ion Ratio Lower Upper

76 100

44 0.0 17.5 26.3#

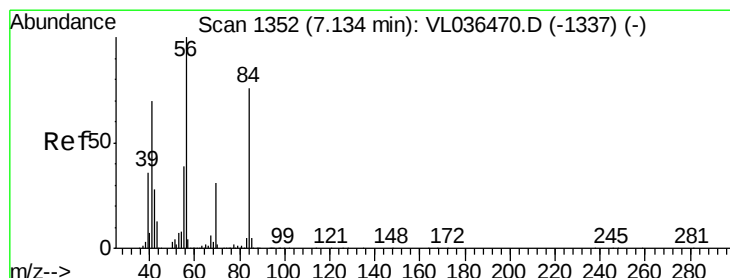
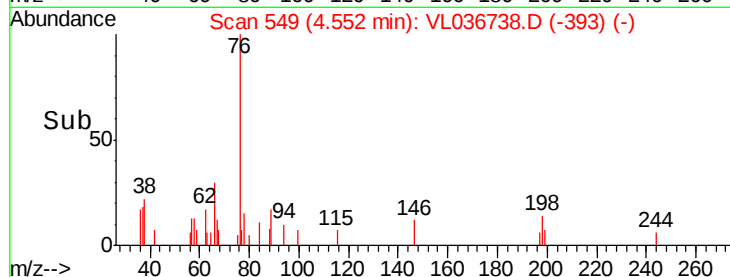
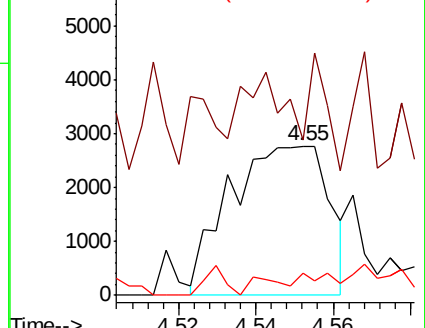
78 0.0 8.6 13.0#



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



#30

Cyclohexane

Concen: 0.037 ppbv

RT: 7.12 min Scan# 1349

Delta R.T. -0.01 min

Lab File: VL036738.D

Acq: 7 Apr 2021 22:40

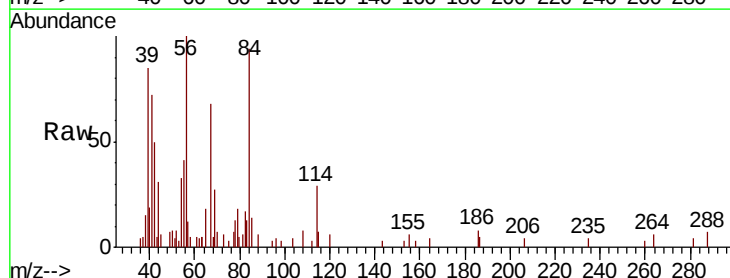
Tgt Ion: 84 Resp: 4043

Ion Ratio Lower Upper

84 100

56 0.0 114.6 171.8#

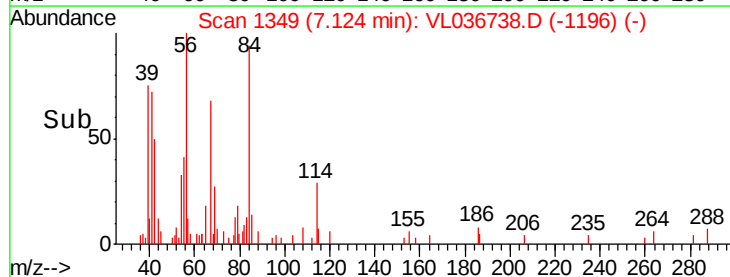
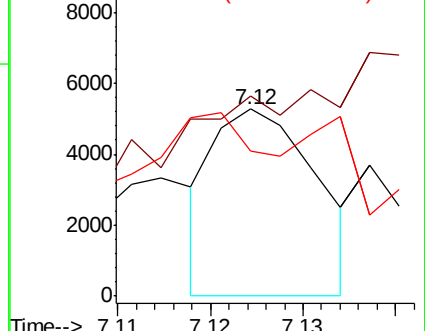
41 364.9 75.3 112.9#

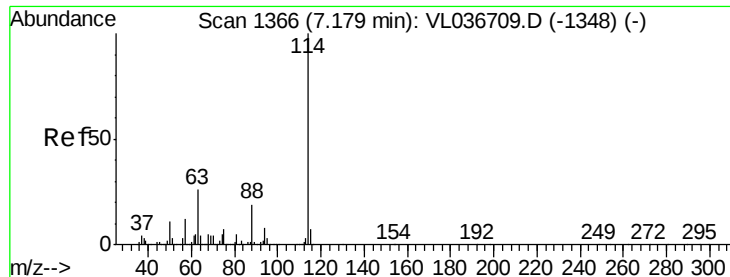


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

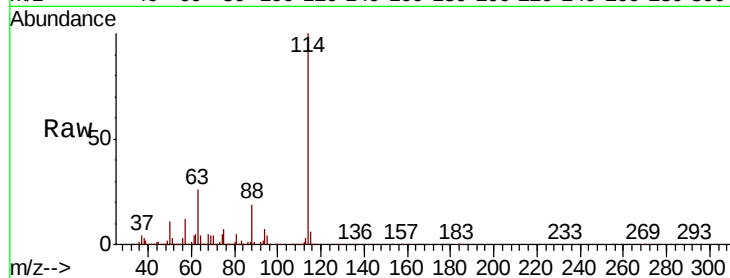




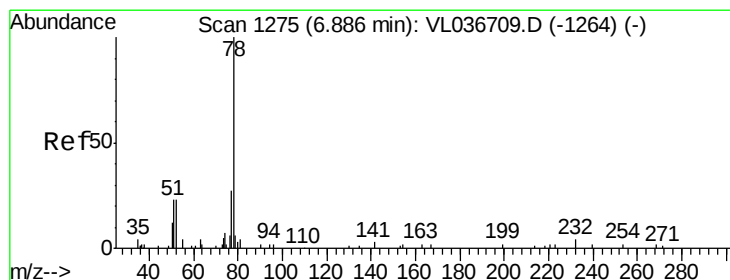
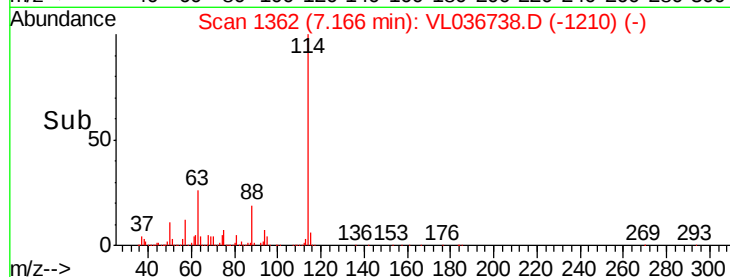
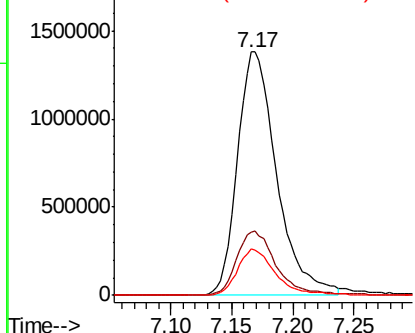
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.01 min
 Lab File: VL036738.D
 Acq: 7 Apr 2021 22:40

Instrument :
 MSVOA_L
 ClientSampleId :
 FS-SV01DL

Tot Ion:114 Resp: 3069719
 Ion Ratio Lower Upper
 114 100
 63 27.0 22.4 33.6
 88 18.7 15.4 23.0

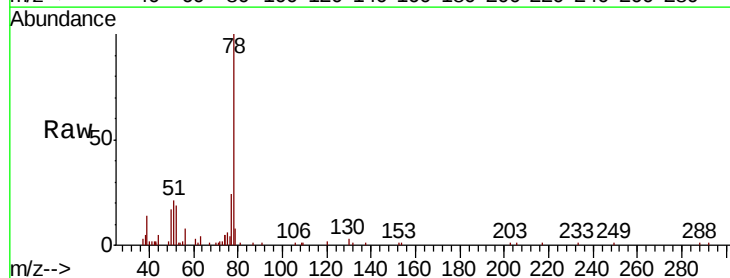


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

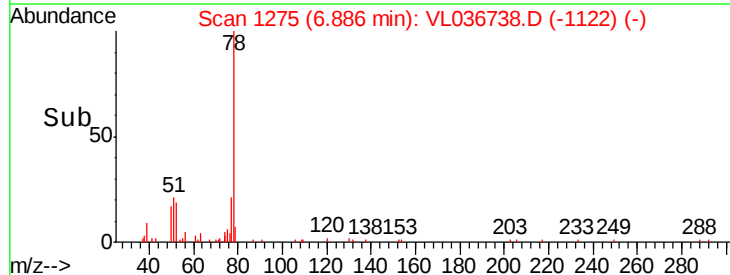
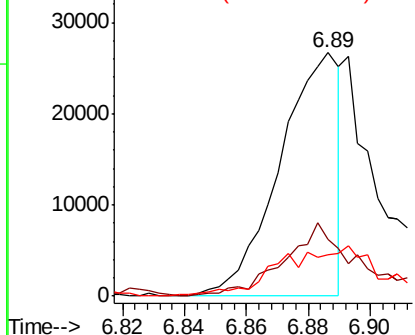


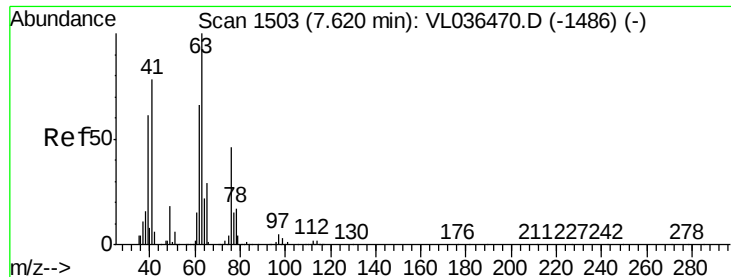
#36
 Benzene
 Concen: 0.126 ppbv
 RT: 6.89 min Scan# 1275
 Delta R.T. -0.01 min
 Lab File: VL036738.D
 Acq: 7 Apr 2021 22:40

Tgt Ion: 78 Resp: 35550
 Ion Ratio Lower Upper
 78 100
 77 23.6 18.0 27.0
 50 16.6 16.5 24.7



Abundance Ion 78.10 (77.80 to 78.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0
 Ion 50.10 (49.80 to 50.80): VL0

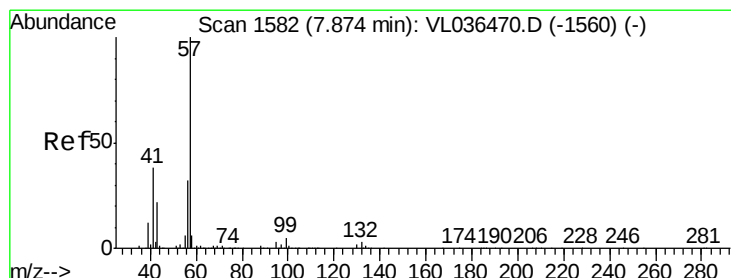
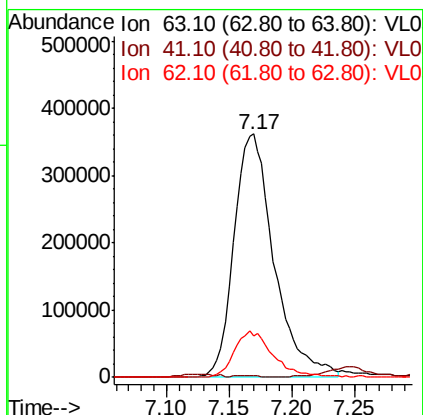
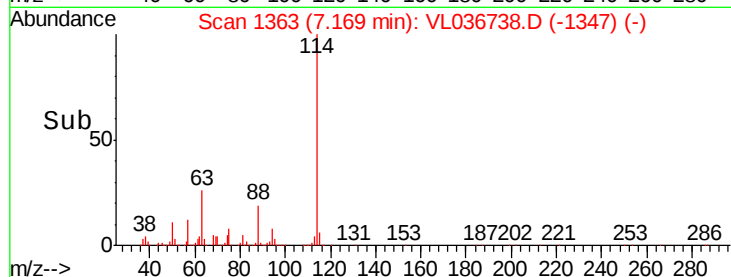
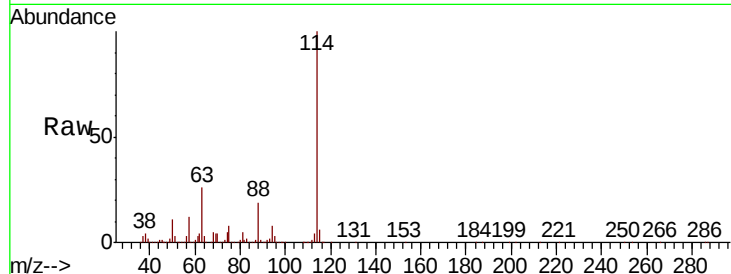




#39
 1,2-Dichloropropane
 Concen: 7.018 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.45 min
 Lab File: VL036738.D
 Acq: 7 Apr 2021 22:40

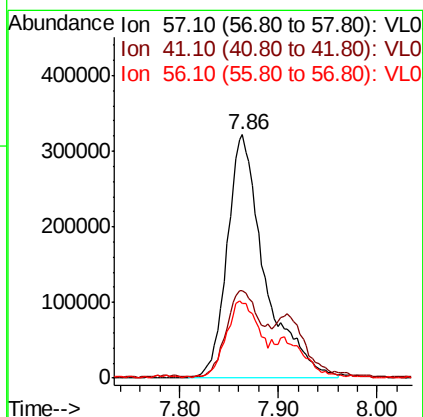
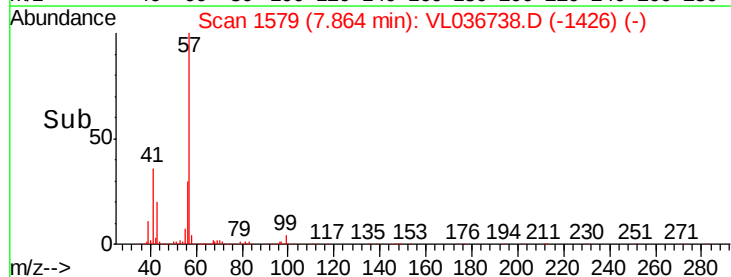
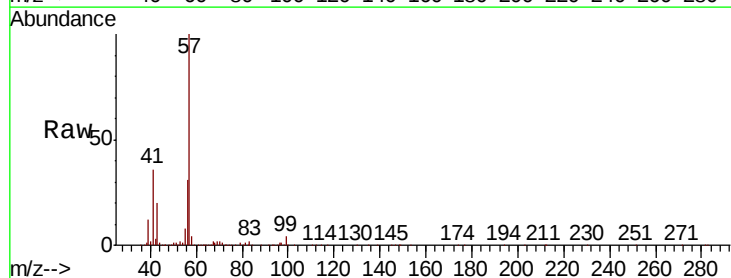
Instrument :
 MSVOA_L
 ClientSampleId :
 FS-SV01DL

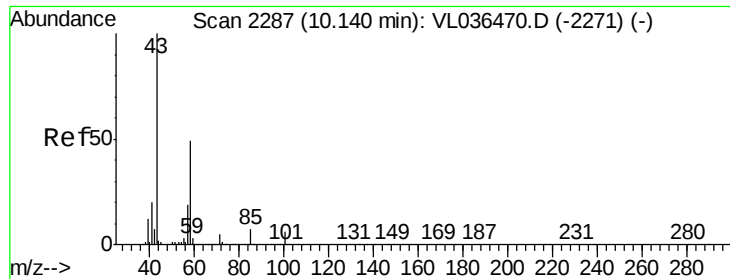
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.4	93.6#
62	16.9	52.8	79.2#



#44
 2,2,4-Trimethylpentane
 Concen: 1.710 ppbv
 RT: 7.86 min Scan# 1579
 Delta R.T. -0.01 min
 Lab File: VL036738.D
 Acq: 7 Apr 2021 22:40

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.4	28.8	43.2
56	42.4	26.1	39.1#





#51

2-Hexanone

Concen: 0.105 ppbv

RT: 10.11 min Scan# 2277

Delta R.T. -0.03 min

Lab File: VL036738.D

Acq: 7 Apr 2021 22:40

Instrument :

MSVOA_L

ClientSampleId :

FS-SV01DL

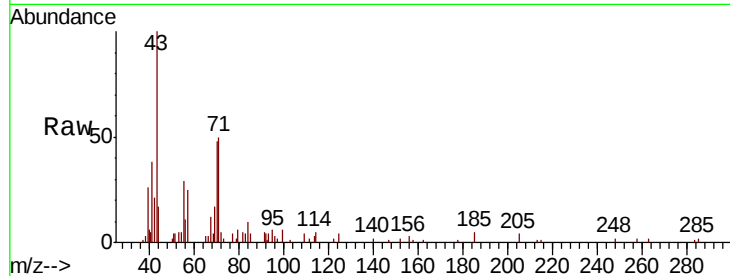
Tot Ion: 43 Resp: 11479

Ion Ratio Lower Upper

43 100

58 0.0 37.7 56.5#

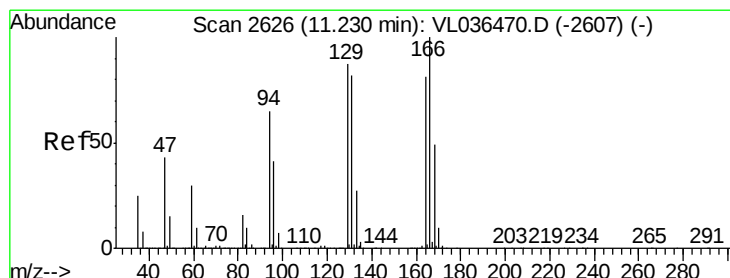
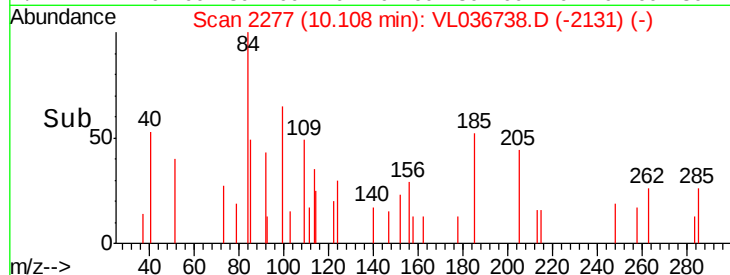
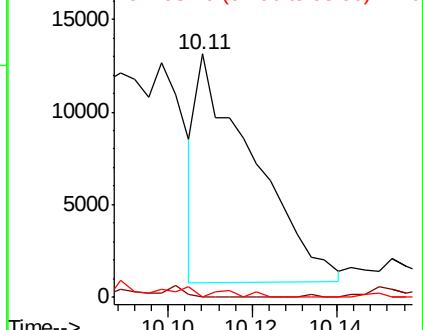
98 6.3 0.2 0.2#



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: 0.074 ppbv

RT: 11.21 min Scan# 2620

Delta R.T. -0.02 min

Lab File: VL036738.D

Acq: 7 Apr 2021 22:40

Tgt Ion: 164 Resp: 7690

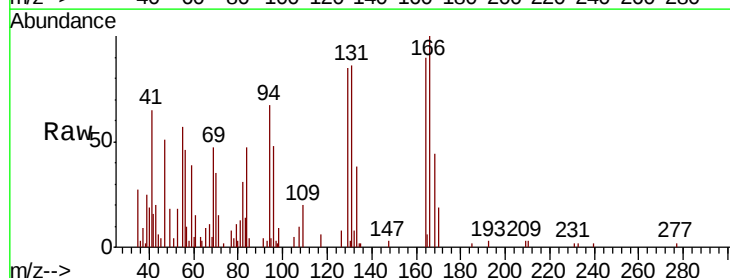
Ion Ratio Lower Upper

164 100

166 115.0 98.3 147.5

129 94.4 85.8 128.8

131 84.4 80.9 121.3

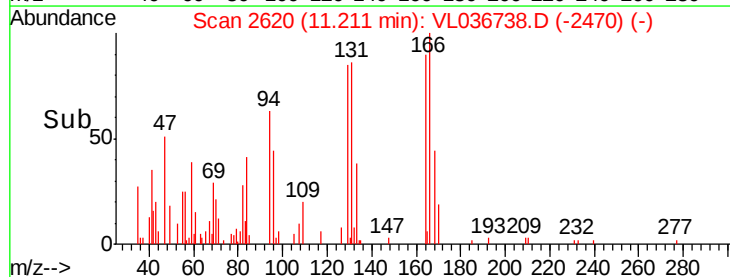
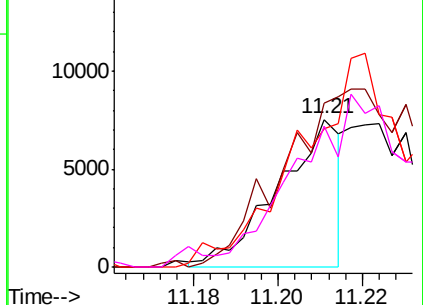


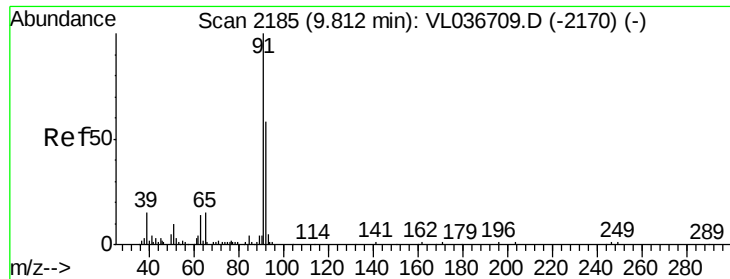
Abundance Ion 163.90 (163.60 to 164.60): V

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: 1.214 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL036738.D

Acq: 7 Apr 2021 22:40

Instrument :

MSVOA_L

ClientSampleId :

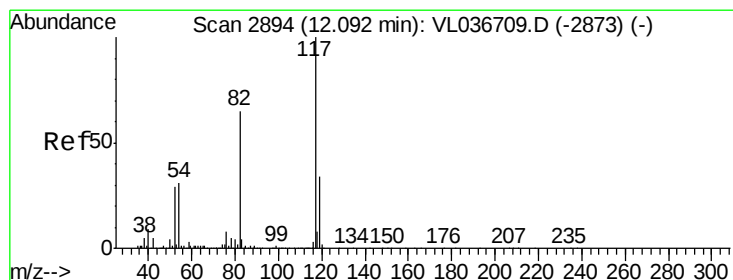
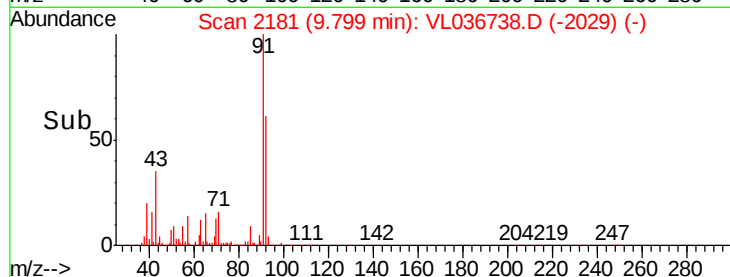
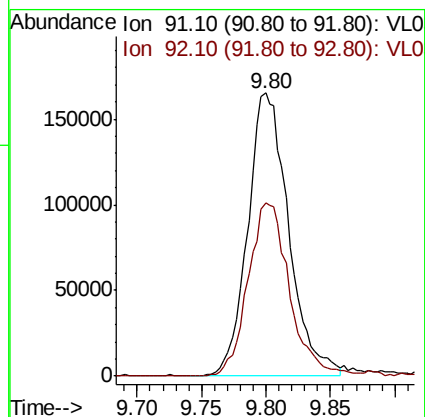
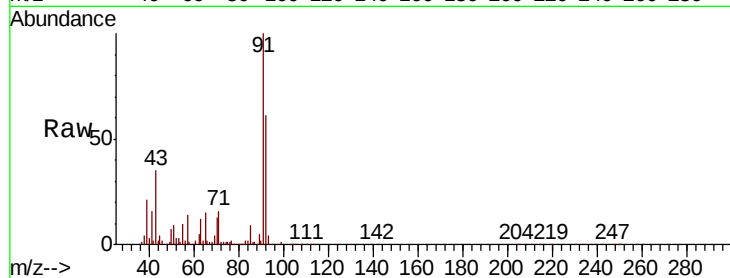
FS-SV01DL

Tot Ion: 91 Resp: 365966

Ion Ratio Lower Upper

91 100

92 63.0 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL036738.D

Acq: 7 Apr 2021 22:40

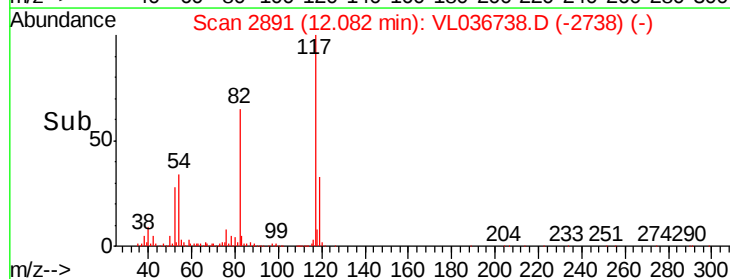
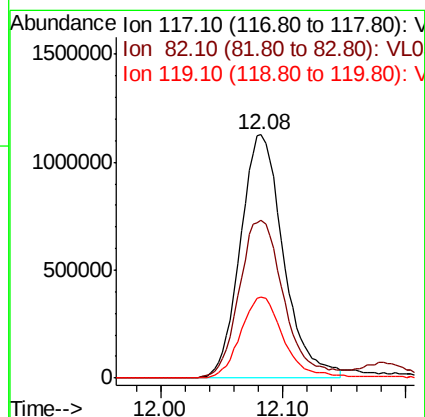
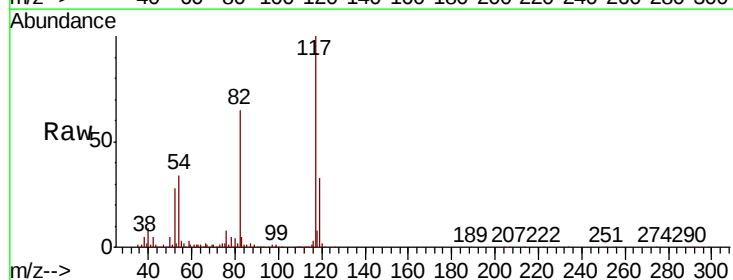
Tgt Ion: 117 Resp: 2750796

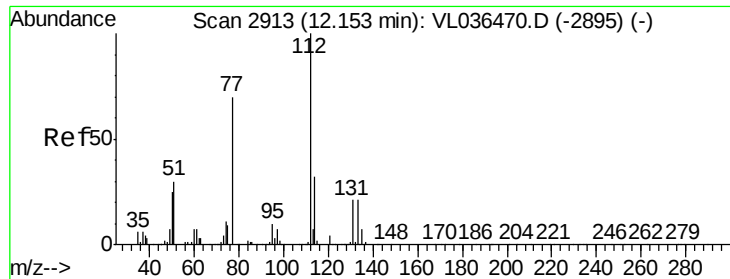
Ion Ratio Lower Upper

117 100

82 67.9 57.4 86.0

119 34.0 47.4 71.0#





#57

Chlorobenzene

Concen: 0.035 ppbv

RT: 12.15 min Scan# 2911

Delta R.T. -0.01 min

Lab File: VL036738.D

Acq: 7 Apr 2021 22:40

Instrument :

MSVOA_L

ClientSampleId :

FS-SV01DL

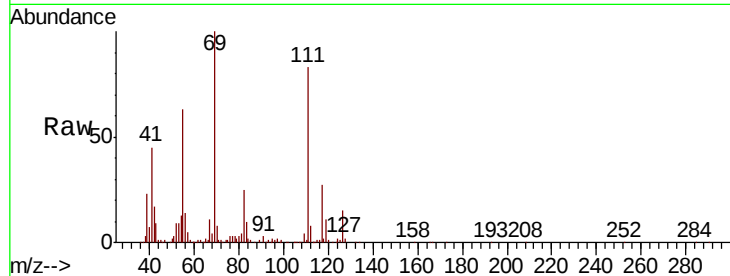
Tot Ion:112 Resp: 8169

Ion Ratio Lower Upper

112 100

77 15.0 56.0 84.0#

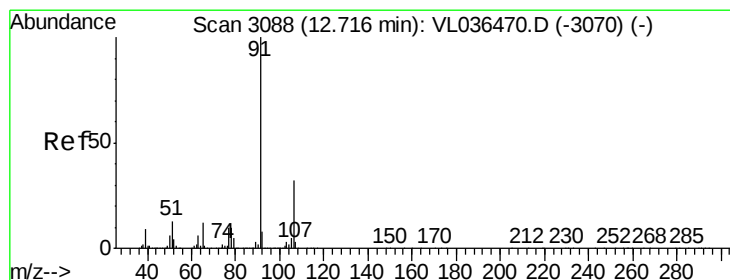
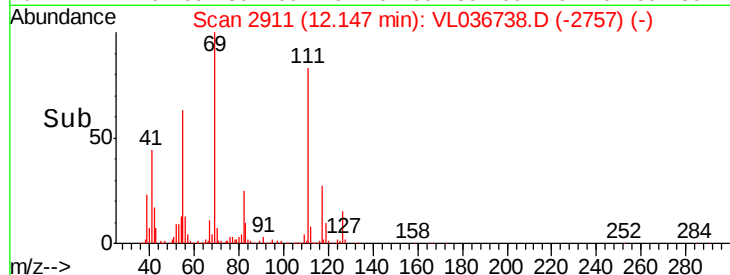
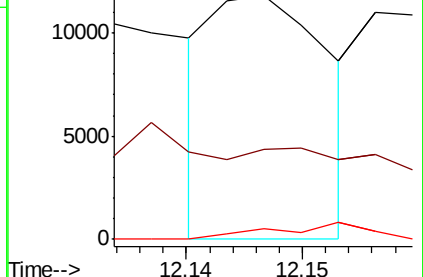
114 16.0 29.0 35.4#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.059 ppbv

RT: 12.70 min Scan# 3084

Delta R.T. -0.01 min

Lab File: VL036738.D

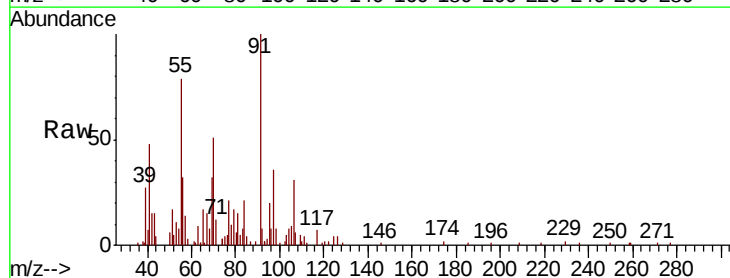
Acq: 7 Apr 2021 22:40

Tgt Ion: 91 Resp: 23780

Ion Ratio Lower Upper

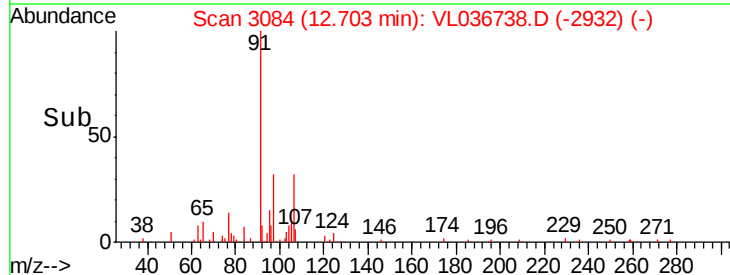
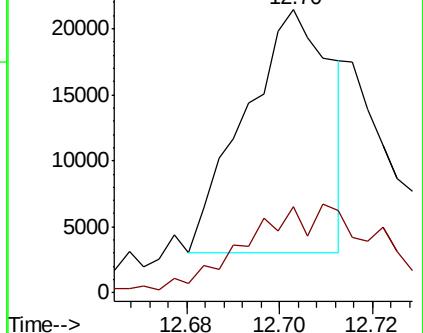
91 100

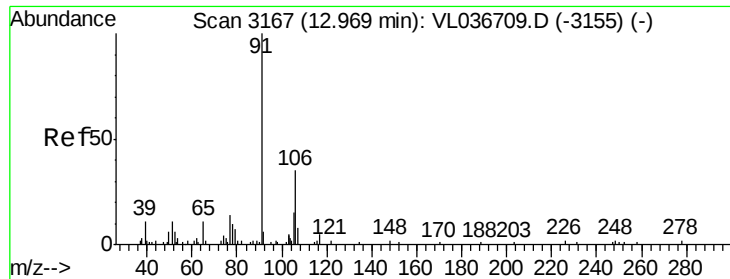
106 32.1 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.459 ppbv

RT: 12.96 min Scan# 3165

Delta R.T. -0.04 min

Lab File: VL036738.D

Acq: 7 Apr 2021 22:40

Instrument :

MSVOA_L

ClientSampleId :

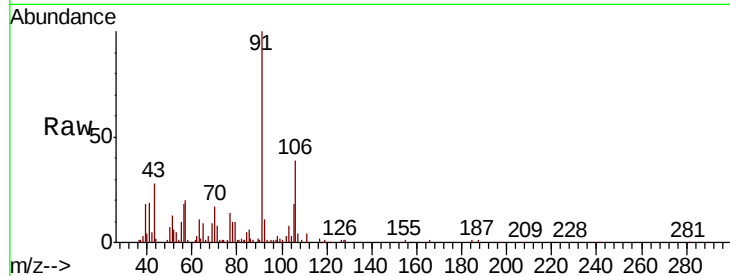
FS-SV01DL

Tot Ion: 91 Resp: 160353

Ion Ratio Lower Upper

91 100

106 51.5 35.3 52.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12.96

60000

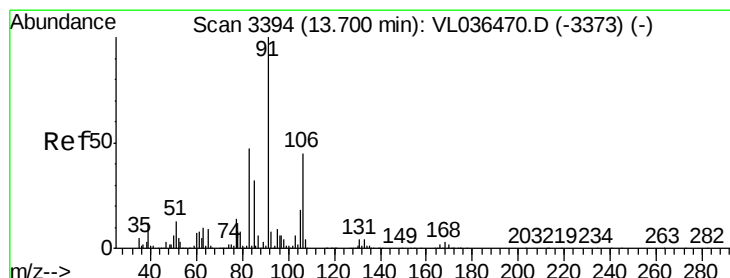
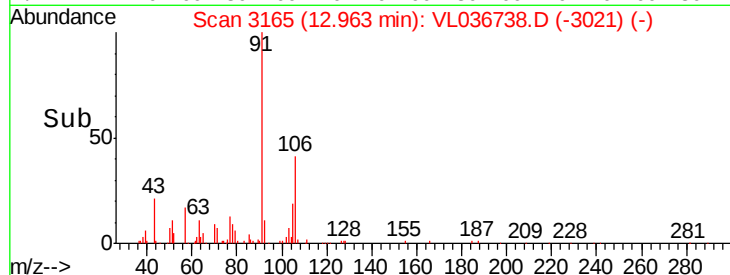
40000

20000

0

Time-->

12.90 13.00



#60

o-Xylene

Concen: 0.268 ppbv

RT: 13.69 min Scan# 3392

Delta R.T. -0.01 min

Lab File: VL036738.D

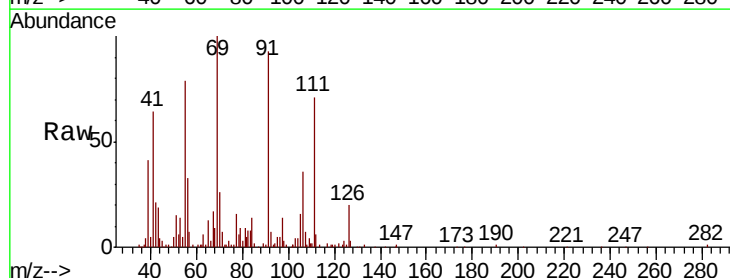
Acq: 7 Apr 2021 22:40

Tgt Ion: 91 Resp: 90552

Ion Ratio Lower Upper

91 100

106 45.3 22.3 66.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.69

40000

30000

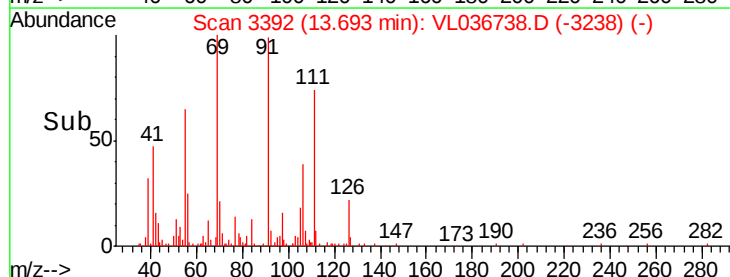
20000

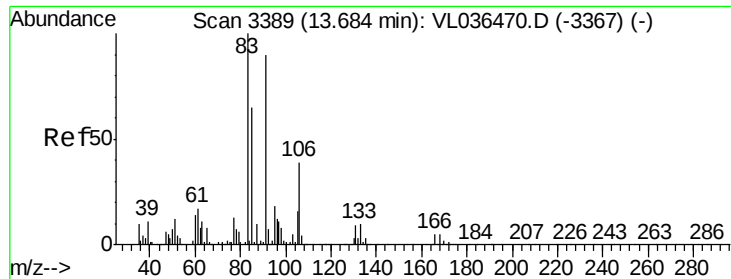
10000

0

Time-->

13.65 13.70

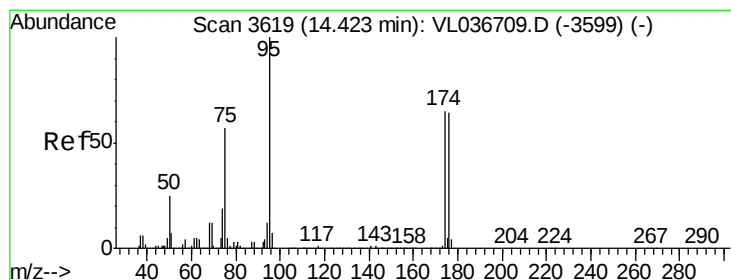
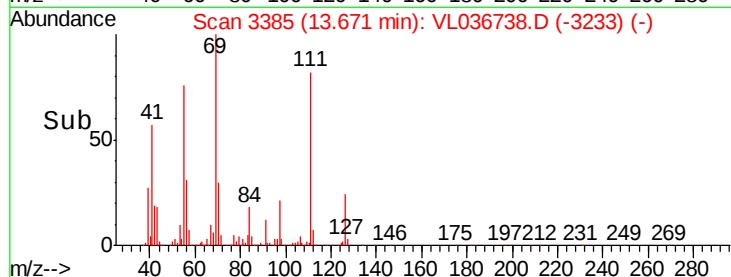
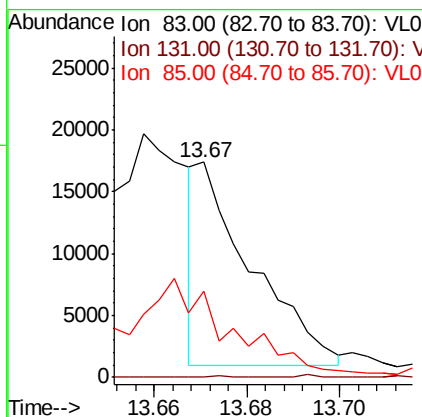
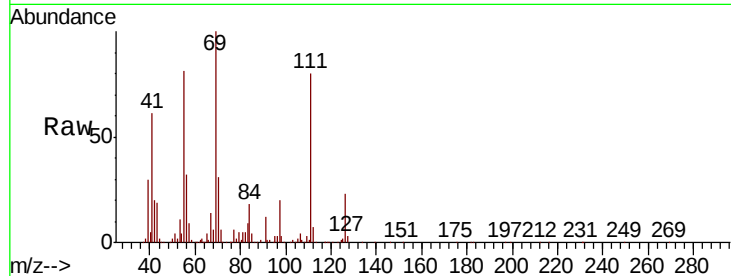




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.051 ppbv
 RT: 13.67 min Scan# 3385
 Delta R.T. -0.01 min
 Lab File: VL036738.D
 Acq: 7 Apr 2021 22:40

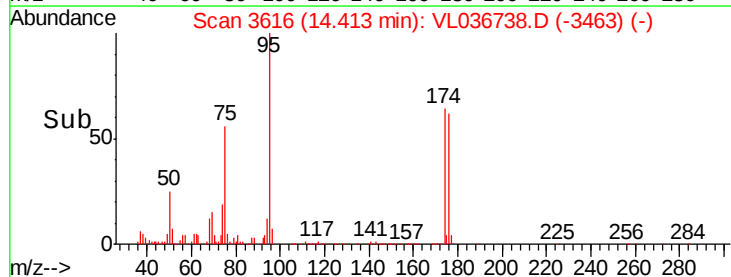
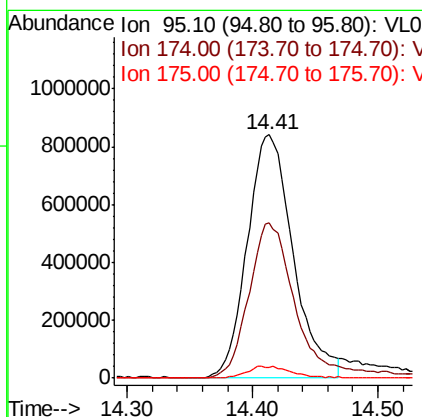
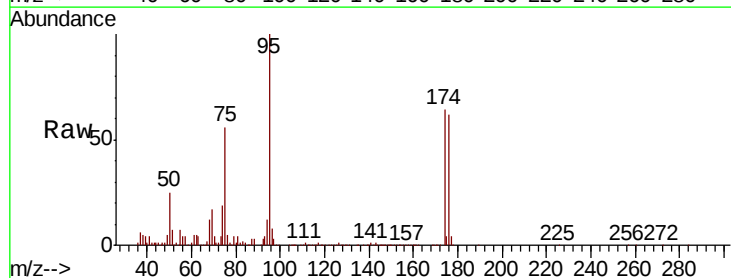
Instrument :
 MSVOA_L
 ClientSampleId :
 FS-SV01DL

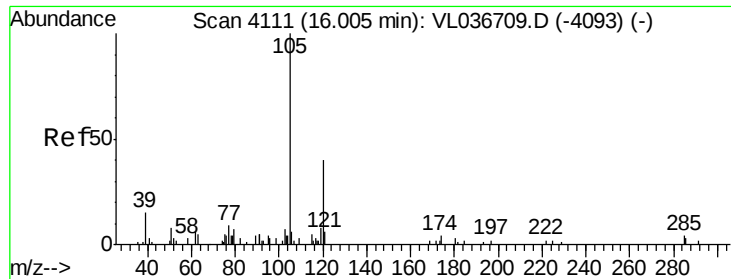
Tot Ion: 83 Resp: 13214
 Ion Ratio Lower Upper
 83 100
 131 0.2 4.7 14.0#
 85 118.0 33.1 99.3#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.746 ppbv
 RT: 14.41 min Scan# 3616
 Delta R.T. -0.01 min
 Lab File: VL036738.D
 Acq: 7 Apr 2021 22:40

Tgt Ion: 95 Resp: 2136624
 Ion Ratio Lower Upper
 95 100
 174 68.7 51.0 76.6
 175 4.9 3.9 5.9





#73

1,3,5-Trimethylbenzene

Concen: 0.059 ppbv

RT: 16.00 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL036738.D

Acq: 7 Apr 2021 22:40

Instrument :

MSVOA_L

ClientSampleId :

FS-SV01DL

Tot Ion:105 Resp: 20364

Ion Ratio Lower Upper

105 100

120 31.8 36.6 54.8#

