

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041321\
 Data File : VL036815.D
 Acq On : 14 Apr 2021 00:00
 Operator : SY/AP
 Sample : M2018-03DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 14 04:43:32 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1232609	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	3130045	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2436694	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.42	95	1533748	7.90	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	79.00%	

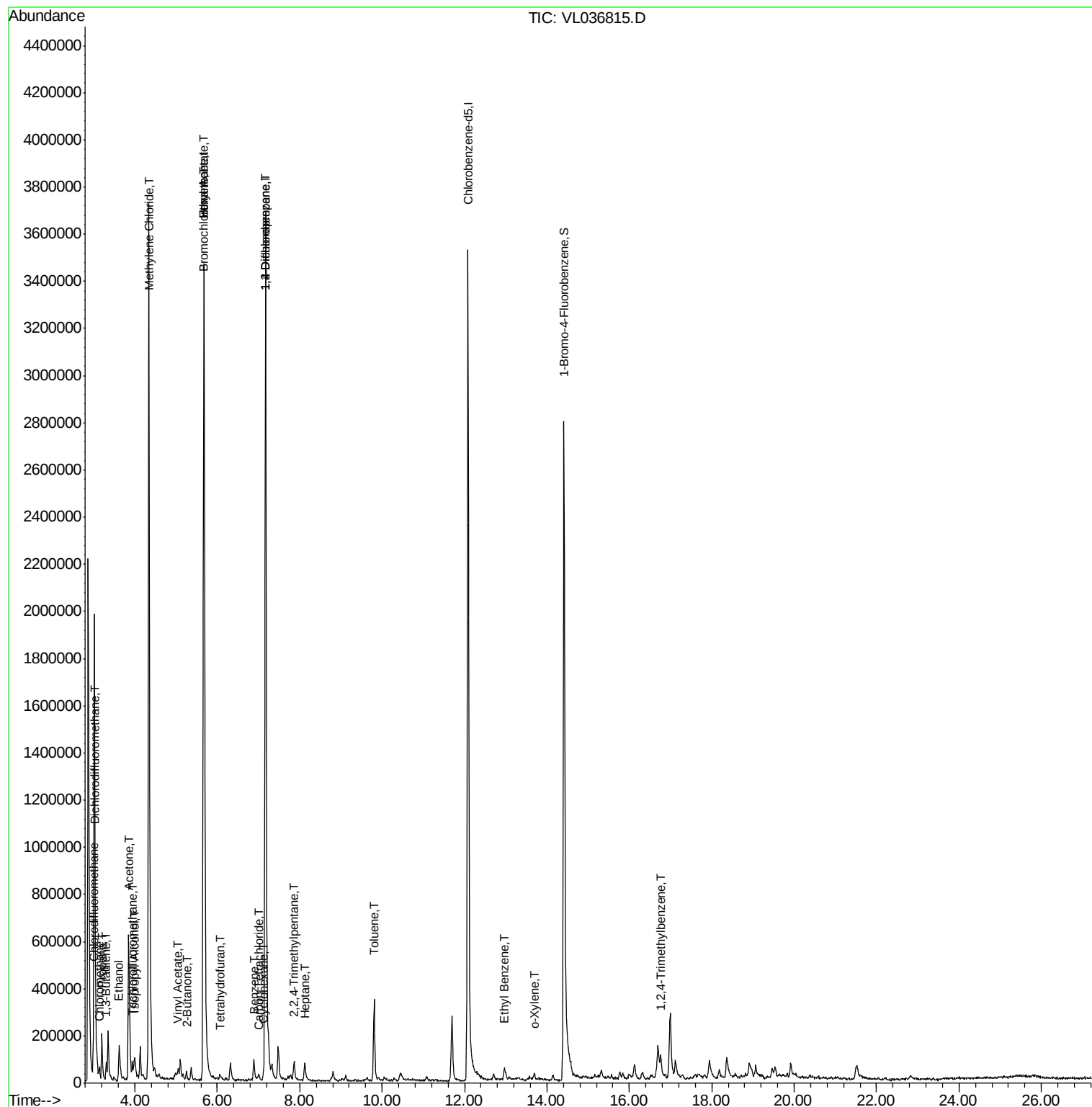
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	28774	0.143	ppbv	94
3) Chlorodifluoromethane	2.98	51	58793	0.255	ppbv	93
4) Chloromethane	3.14	50	41958	0.516	ppbv	99
9) Propene	3.20	41	48638	0.662	ppbv	87
10) Heptane	8.12	43	16082	0.086	ppbv #	28
11) Trichlorofluoromethane	3.94	101	41569	0.203	ppbv	95
13) Ethanol	3.62	45	216646	24.780	ppbv	91
15) Acetone	3.84	43	786803	6.485	ppbv	98
16) 1,3-Butadiene	3.30	39	16636	0.197	ppbv #	13
19) Isopropyl Alcohol	3.99	45	92805	1.391	ppbv #	73
20) Methylene Chloride	4.34	84	1496543	26.347	ppbv	92
23) Vinyl Acetate	5.06	43	11366	0.055	ppbv #	12
25) Ethyl Acetate	5.68	43	813135	2.819	ppbv #	78
26) Hexane	5.68	57	1124010	8.398	ppbv #	47
30) Cyclohexane	7.12	84	3833	0.035	ppbv #	1
34) 2-Butanone	5.25	43	39050	0.256	ppbv #	83
35) Carbon Tetrachloride	7.02	117	10292	0.043	ppbv #	79
36) Benzene	6.89	78	42968	0.149	ppbv	96
39) 1,2-Dichloropropane	7.17	63	823817	7.035	ppbv #	23
41) Tetrahydrofuran	6.06	42	5927	0.084	ppbv #	57
44) 2,2,4-Trimethylpentane	7.87	57	37171	0.073	ppbv #	23
53) Toluene	9.80	91	156509	0.509	ppbv #	20
58) Ethyl Benzene	12.96	91	15930	0.045	ppbv	95
60) o-Xylene	13.69	91	10872	0.036	ppbv #	31
74) 1,2,4-Trimethylbenzene	16.76	105	17869	0.055	ppbv #	62

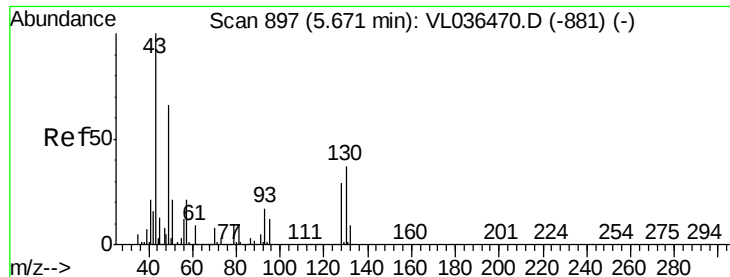
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2021 00:00

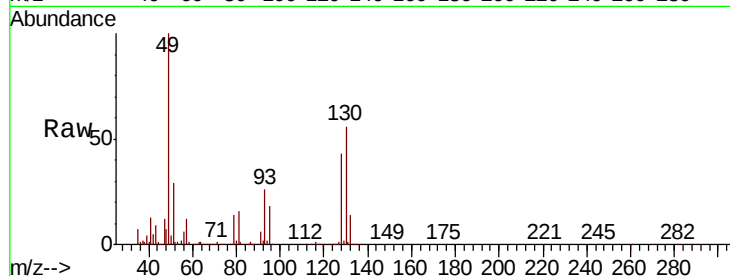
Tot Ion: 49 Resp: 1232609

Ion Ratio Lower Upper

49 100

128 47.6 23.5 70.6

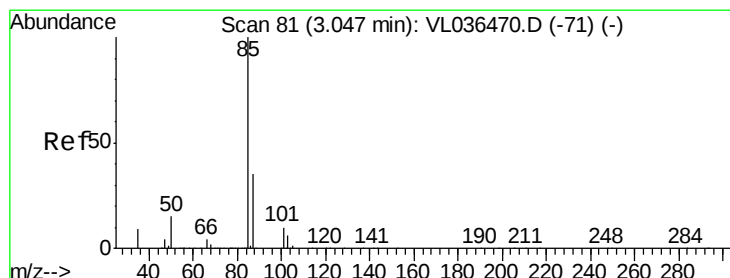
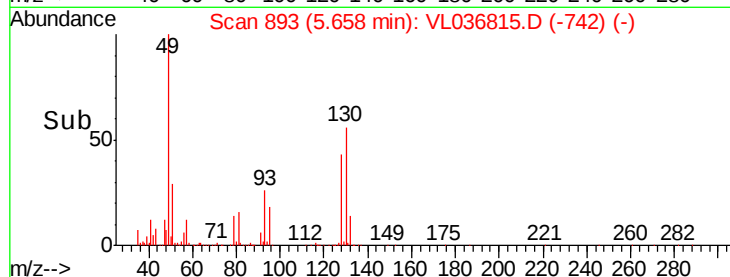
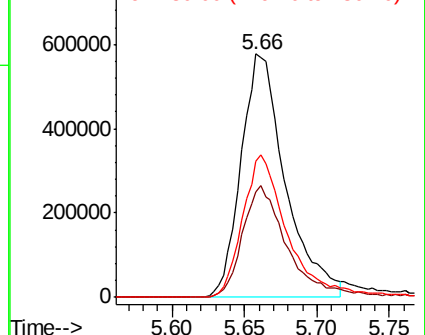
130 60.2 29.1 87.4



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



#2

Dichlorodifluoromethane

Concen: 0.143 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL036815.D

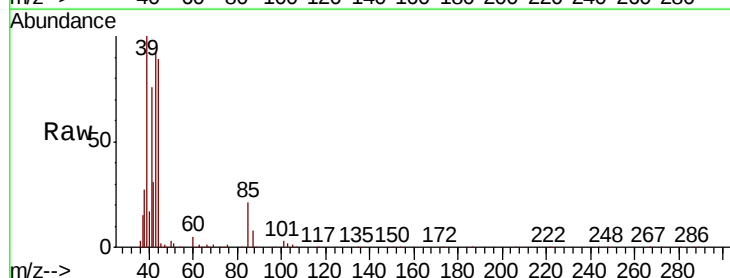
Acq: 14 Apr 2021 00:00

Tgt Ion: 85 Resp: 28774

Ion Ratio Lower Upper

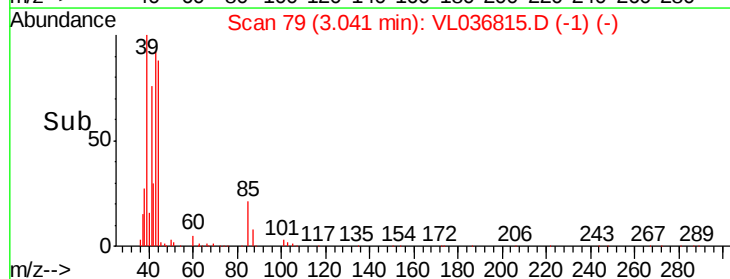
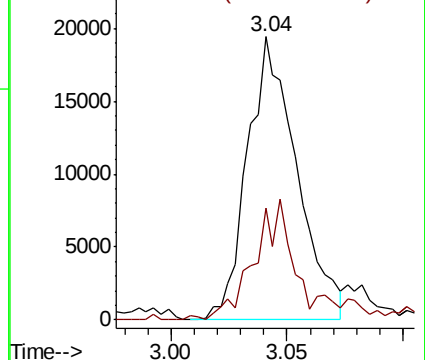
85 100

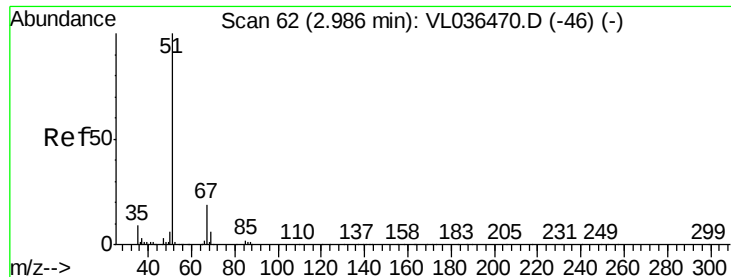
87 38.1 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.255 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

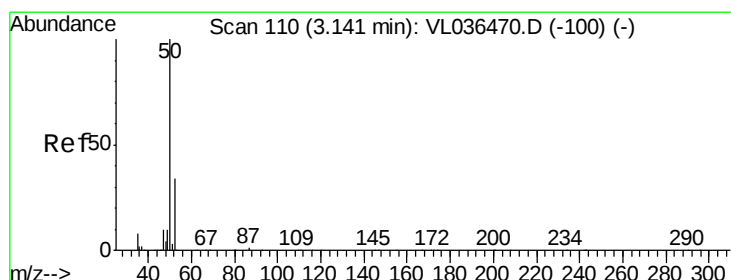
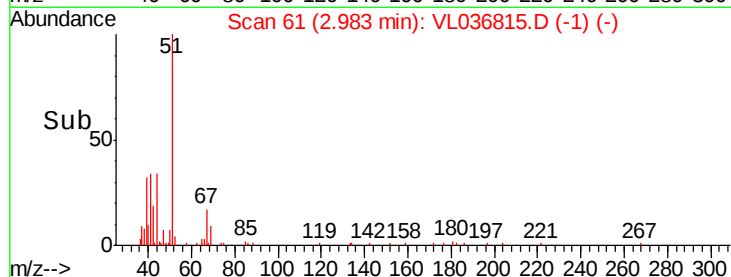
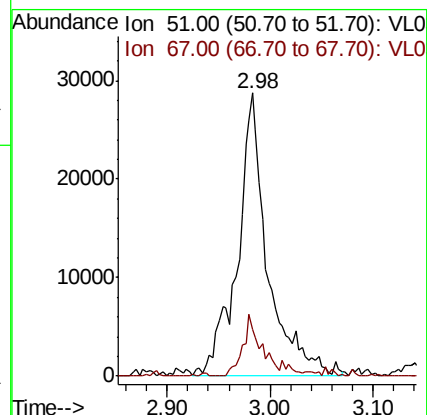
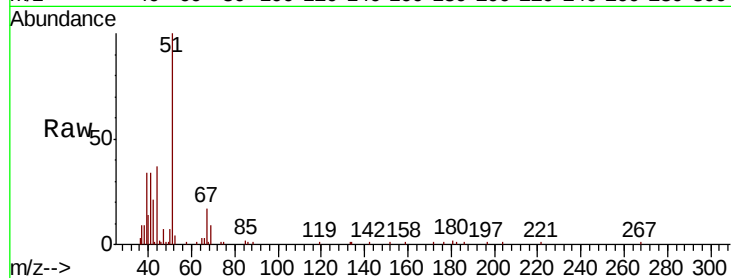
Acq: 14 Apr 2021 00:00

Tot Ion: 51 Resp: 58793

Ion Ratio Lower Upper

51 100

67 15.4 14.7 22.1



#4

Chloromethane

Concen: 0.516 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL036815.D

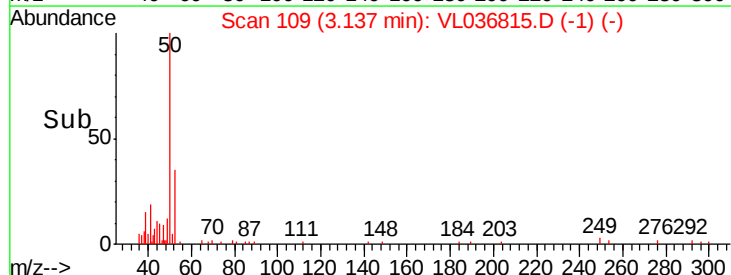
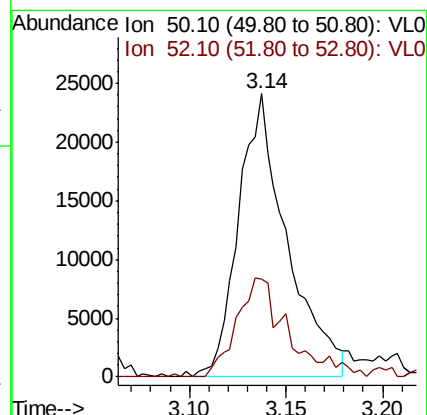
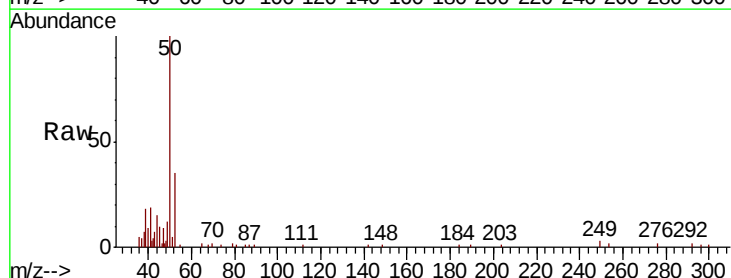
Acq: 14 Apr 2021 00:00

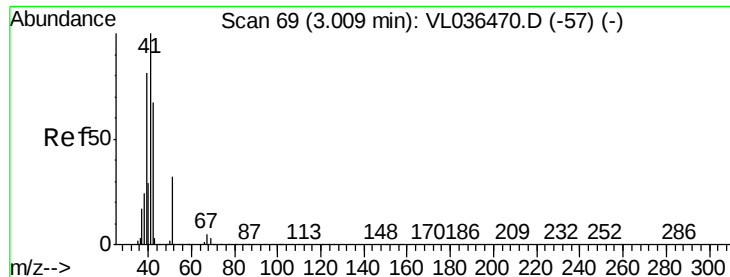
Tgt Ion: 50 Resp: 41958

Ion Ratio Lower Upper

50 100

52 34.6 27.0 40.6





#9

Propene

Concen: 0.662 ppbv

RT: 3.20 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

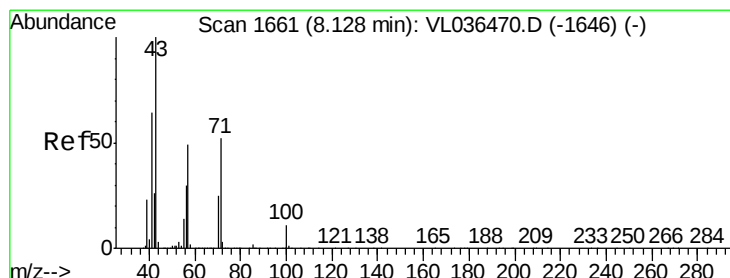
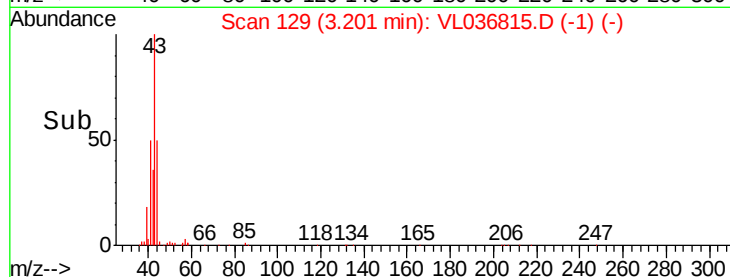
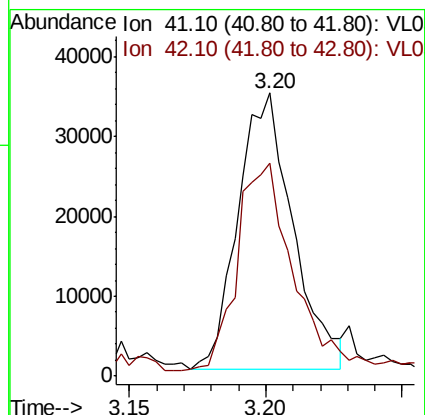
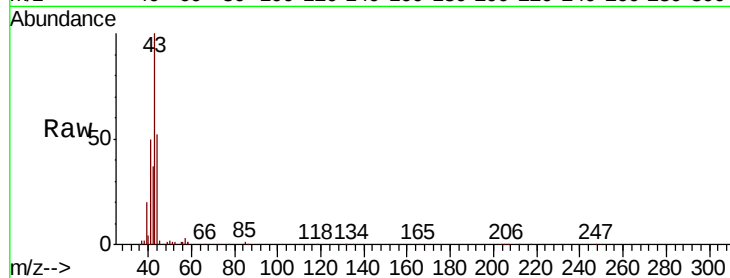
Acq: 14 Apr 2021 00:00

Tot Ion: 41 Resp: 48638

Ion Ratio Lower Upper

41 100

42 81.8 57.0 85.4



#10

Heptane

Concen: 0.086 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VL036815.D

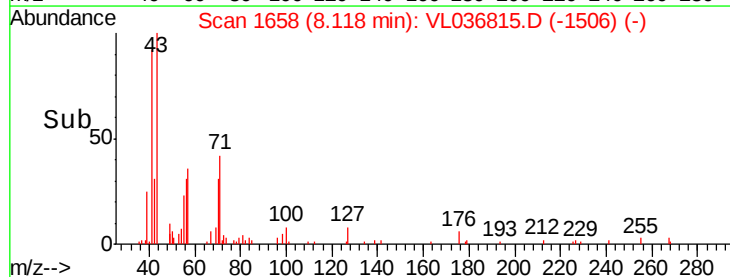
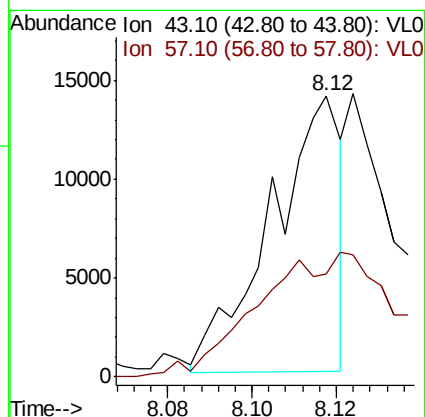
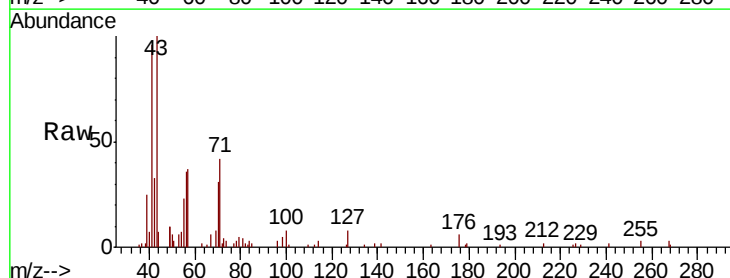
Acq: 14 Apr 2021 00:00

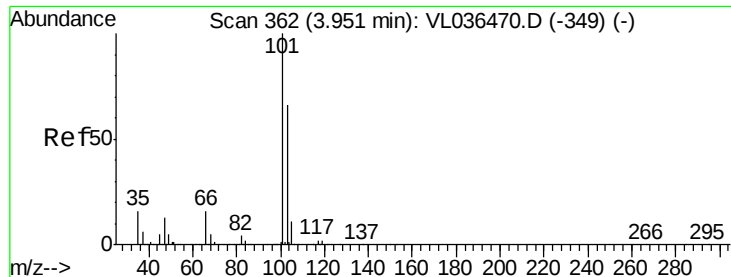
Tgt Ion: 43 Resp: 16082

Ion Ratio Lower Upper

43 100

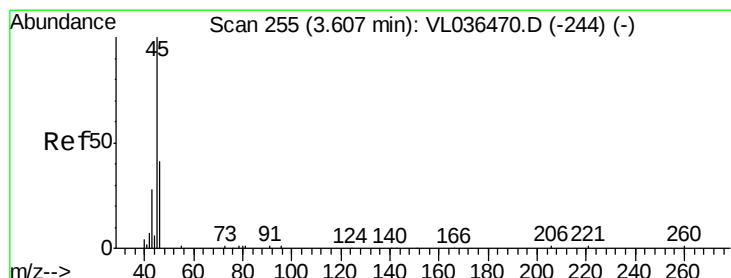
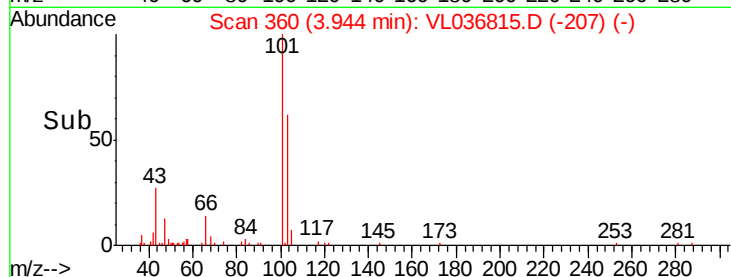
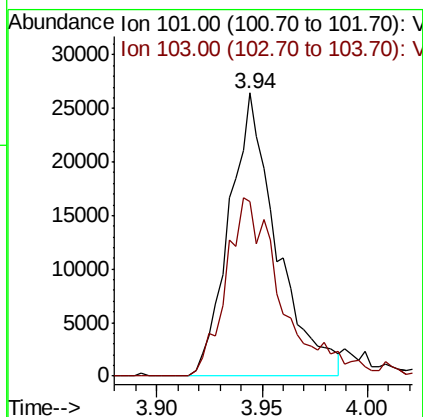
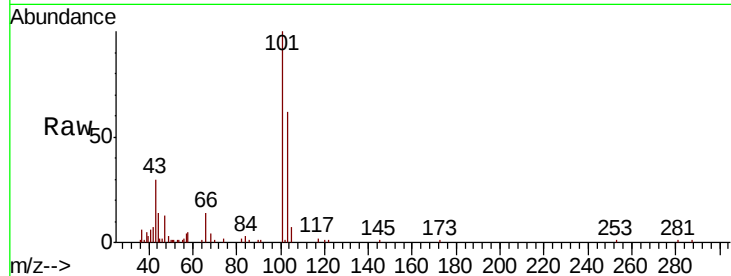
57 97.5 39.0 58.6#





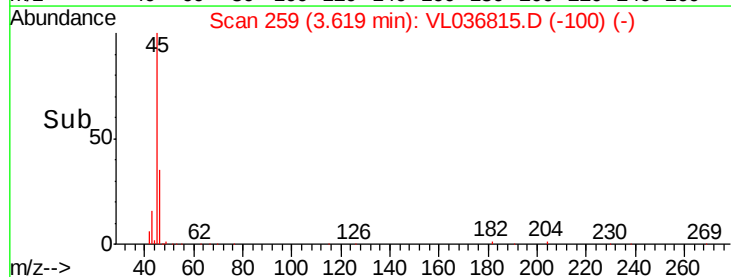
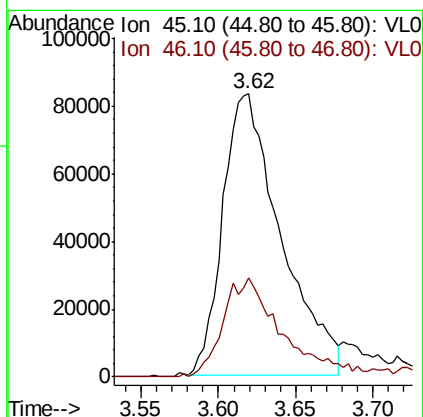
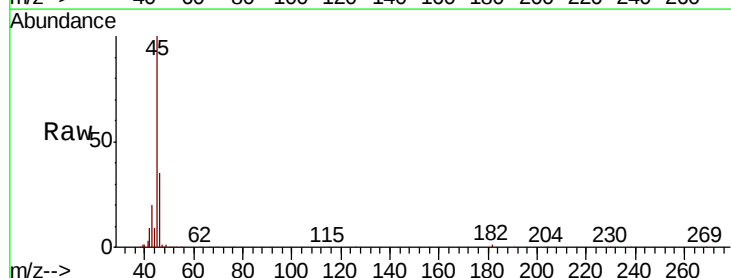
#11
 Trichlorofluoromethane
 Concen: 0.203 ppbv
 RT: 3.94 Instrument :
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 14 Apr 2021 00:00

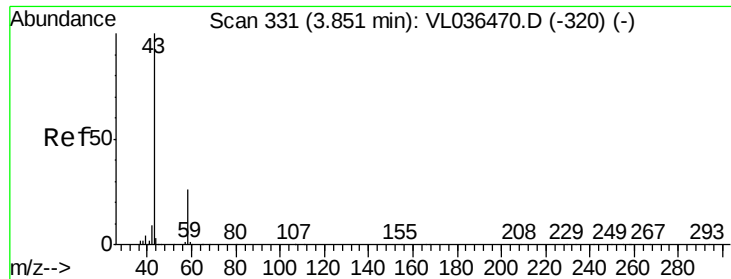
Tot Ion: 101 Resp: 41569
 Ion Ratio Lower Upper
 101 100
 103 61.9 52.5 78.7



#13
 Ethanol
 Concen: 24.780 ppbv
 RT: 3.62 min Scan# 259
 Delta R.T. 0.01 min
 Lab File: VL036815.D
 Acq: 14 Apr 2021 00:00

Tgt Ion: 45 Resp: 216646
 Ion Ratio Lower Upper
 45 100
 46 35.6 16.6 66.2





#15

Acetone

Concen: 6.485 ppbv

RT: 3.84 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

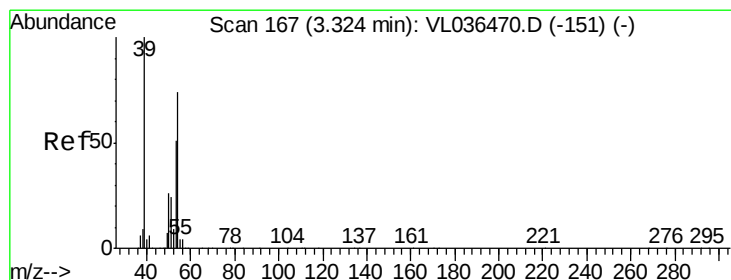
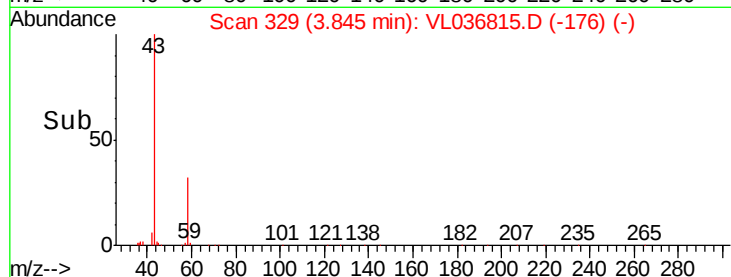
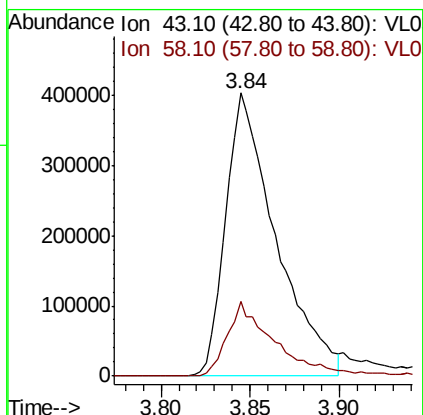
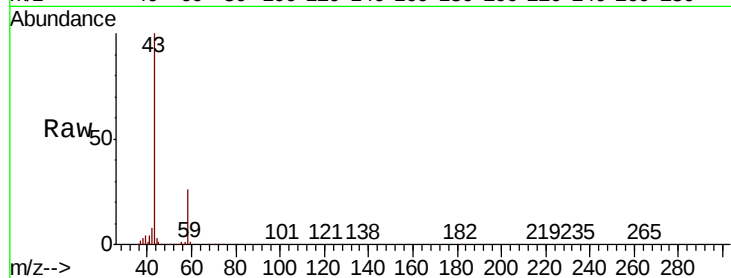
Acq: 14 Apr 2021 00:00

Tot Ion: 43 Resp: 786803

Ion Ratio Lower Upper

43 100

58 25.5 21.2 31.8



#16

1,3-Butadiene

Concen: 0.197 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.02 min

Lab File: VL036815.D

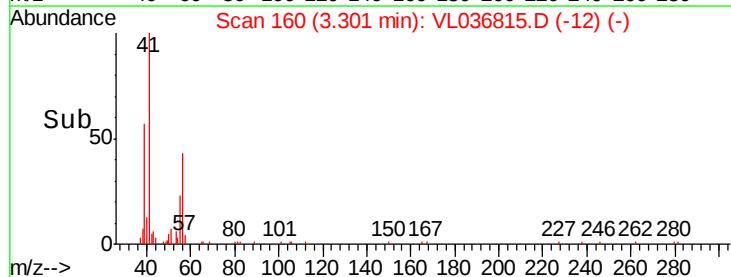
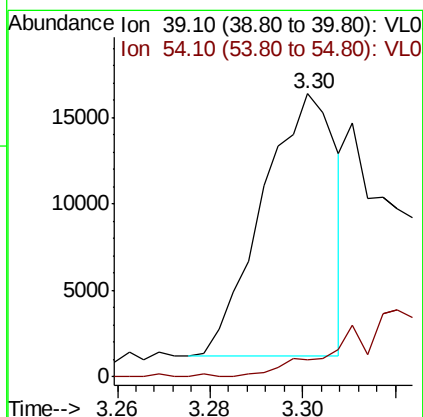
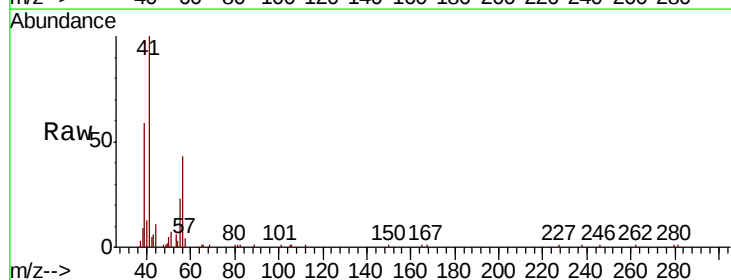
Acq: 14 Apr 2021 00:00

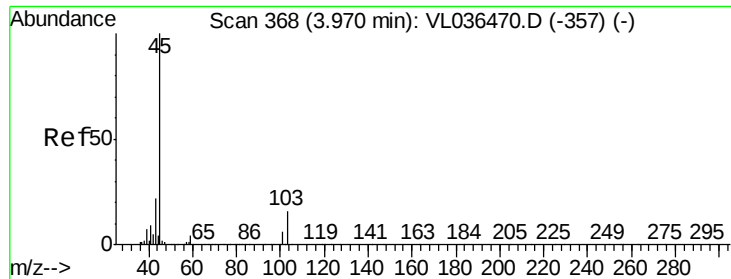
Tgt Ion: 39 Resp: 16636

Ion Ratio Lower Upper

39 100

54 0.0 58.8 88.2#





#19

Isopropyl Alcohol

Concen: 1.391 ppbv

RT: 3.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

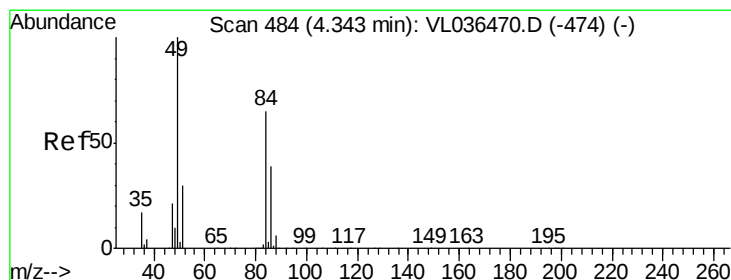
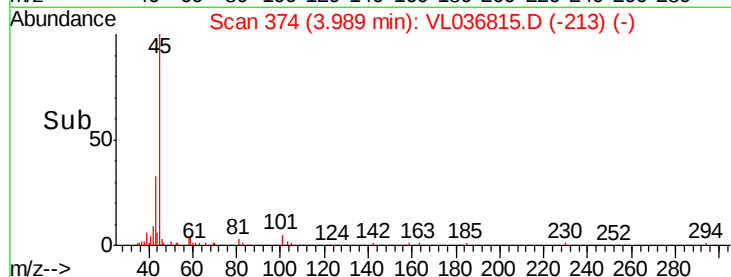
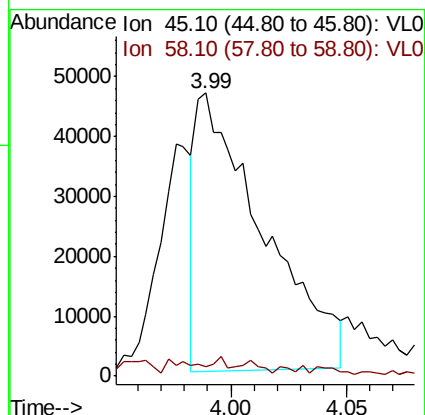
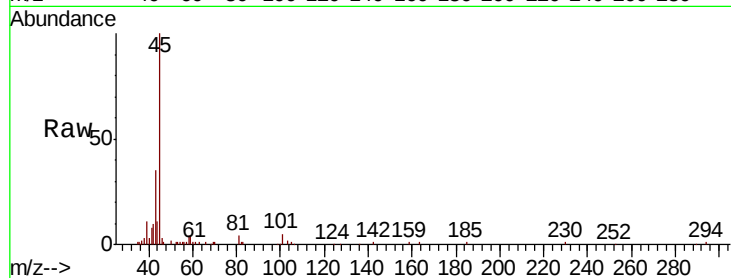
Acq: 14 Apr 2021 00:00

Tot Ion: 45 Resp: 92805

Ion Ratio Lower Upper

45 100

58 12.6 2.9 4.3#



#20

Methylene Chloride

Concen: 26.347 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.01 min

Lab File: VL036815.D

Acq: 14 Apr 2021 00:00

Tgt Ion: 84 Resp: 1496543

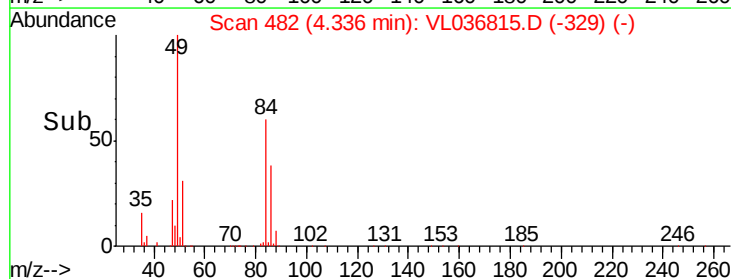
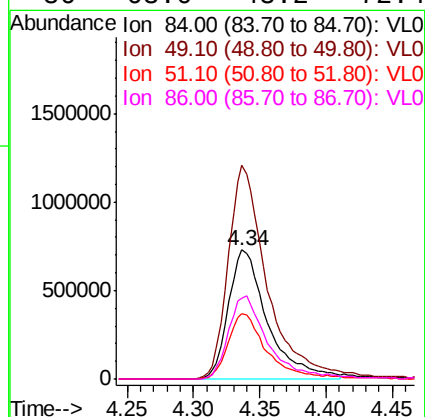
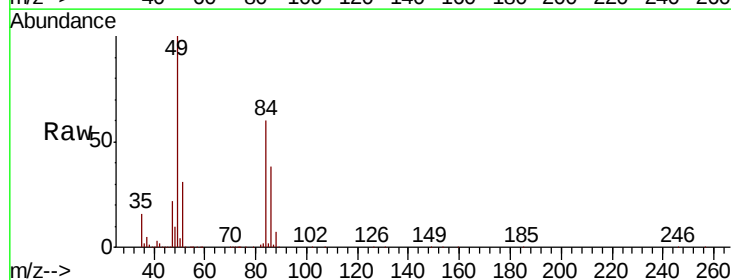
Ion Ratio Lower Upper

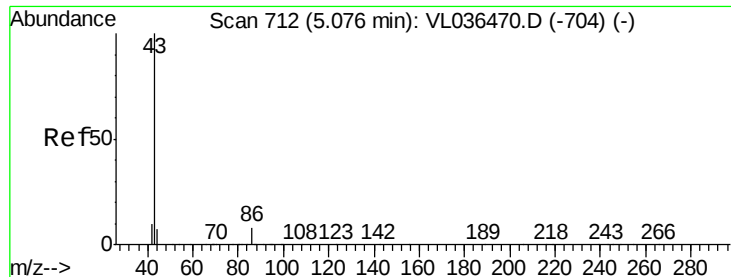
84 100

49 165.8 122.9 184.3

51 50.6 36.9 55.3

86 63.0 48.2 72.4





#23

Vinyl Acetate

Concen: 0.055 ppbv

RT: 5.06 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2021 00:00

Tot Ion: 43 Resp: 11366

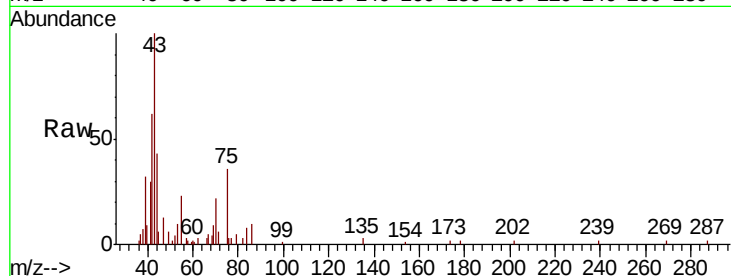
Ion Ratio Lower Upper

43 100

86 7.5 5.4 8.0

42 54.9 8.5 12.7#

44 50.4 4.6 7.0#

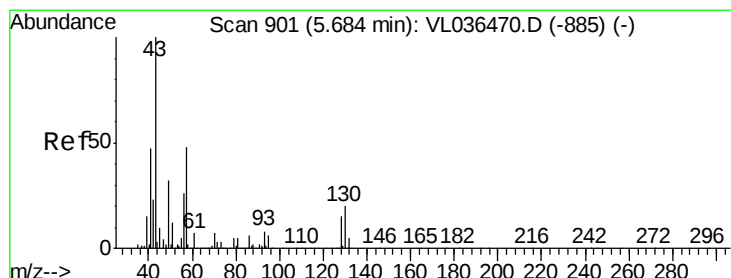
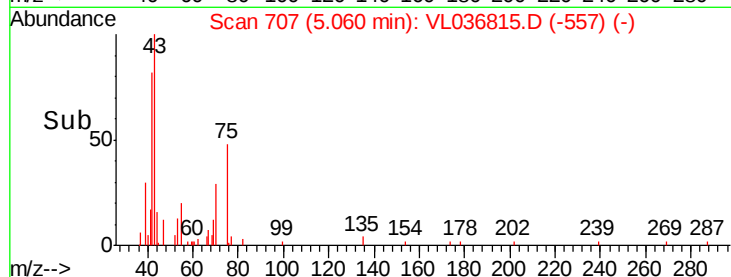
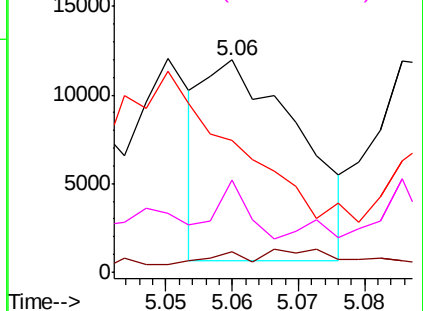


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 2.819 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL036815.D

Acq: 14 Apr 2021 00:00

Tgt Ion: 43 Resp: 813135

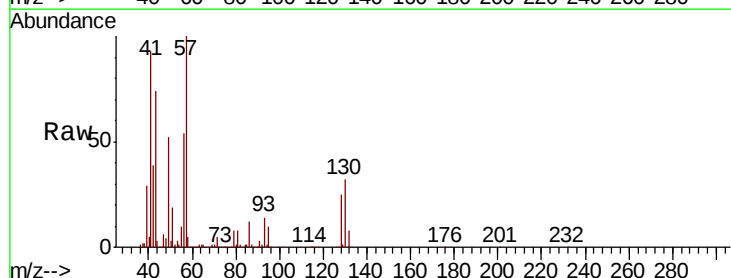
Ion Ratio Lower Upper

43 100

45 0.6 7.9 11.9#

61 0.4 7.4 11.2#

70 1.7 5.1 7.7#

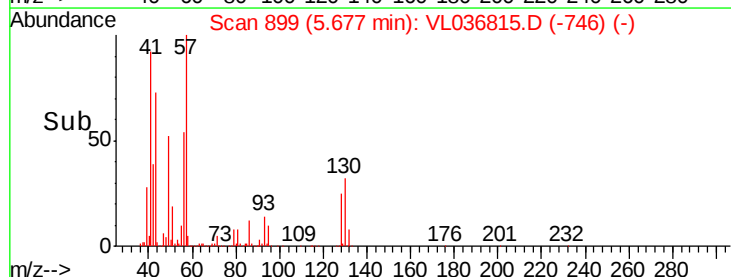
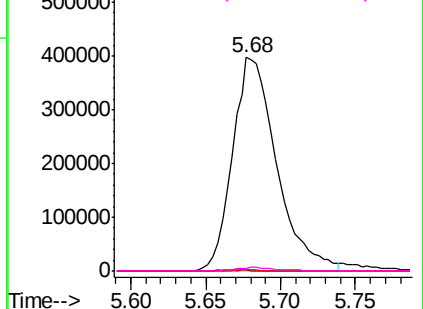


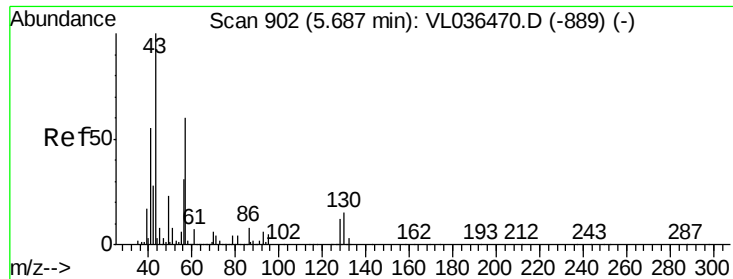
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

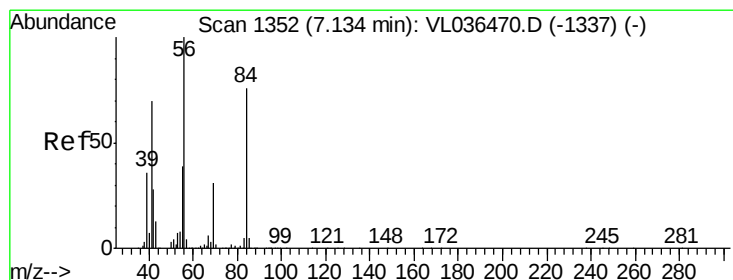
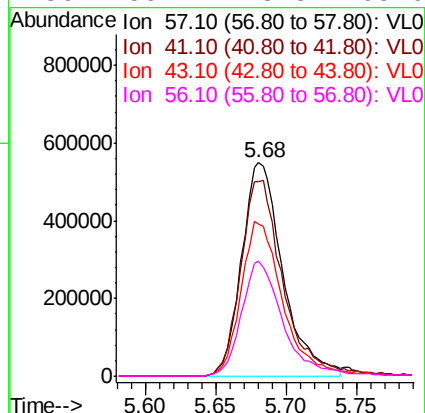
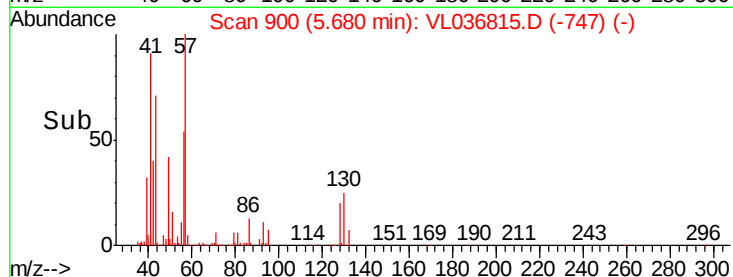
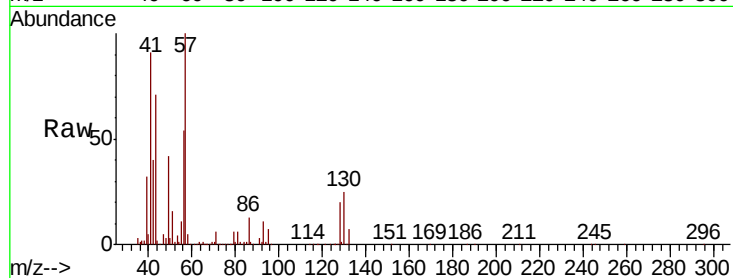
Ion 70.10 (69.80 to 70.80): VL0





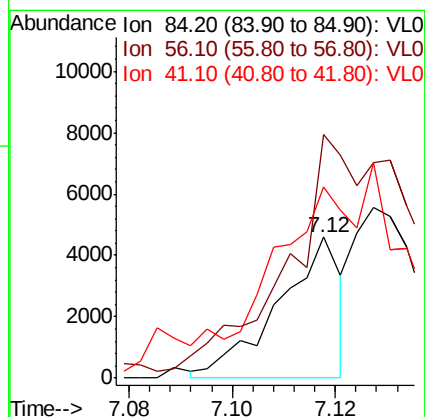
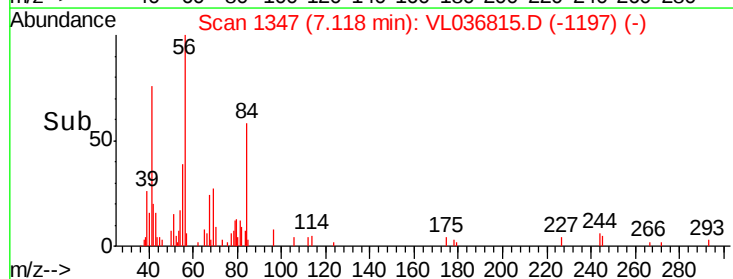
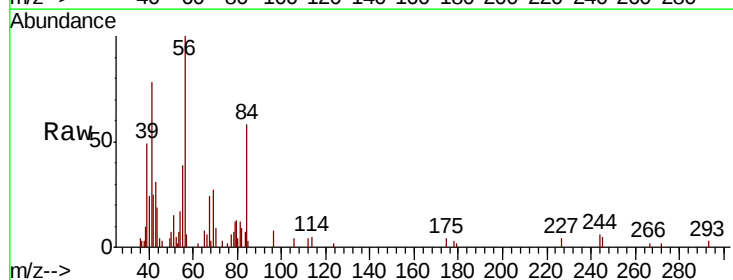
#26
Hexane
Concen: 8.398 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Apr 2021 00:00

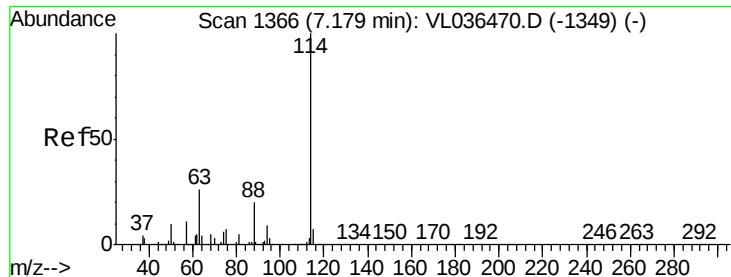
Tot Ion:	57	Resp:	1124010
Ion	Ratio	Lower	Upper
57	100		
41	96.3	77.2	115.8
43	75.0	173.8	260.6#
56	55.1	43.8	65.6



#30
Cyclohexane
Concen: 0.035 ppbv
RT: 7.12 min Scan# 1347
Delta R.T. -0.02 min
Lab File: VL036815.D
Acq: 14 Apr 2021 00:00

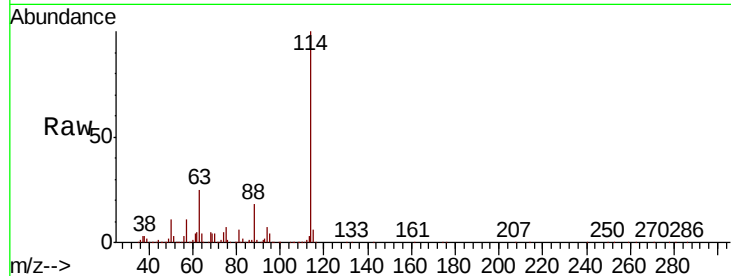
Tgt Ion:	84	Resp:	3833
Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.6	171.8#
41	0.0	75.3	112.9#



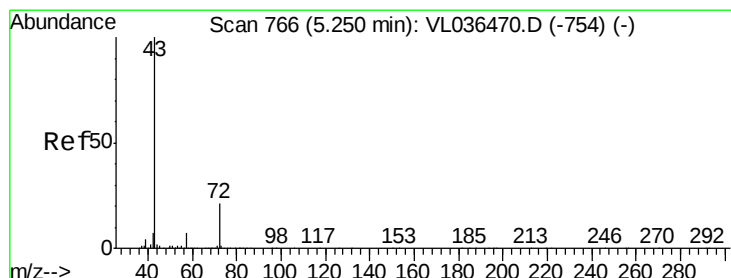
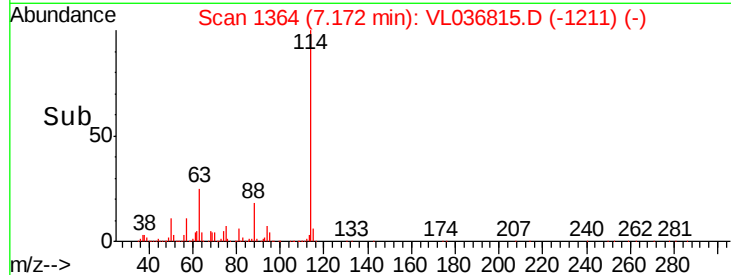
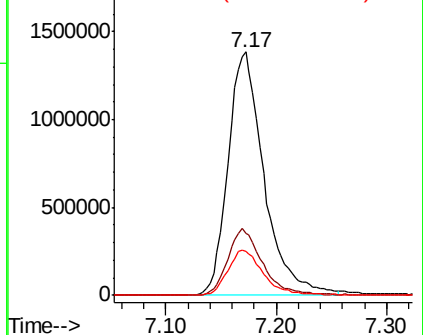


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 14 Apr 2021 00:00

Tot Ion:114 Resp: 3130045
 Ion Ratio Lower Upper
 114 100
 63 26.8 22.4 33.6
 88 18.8 15.4 23.0

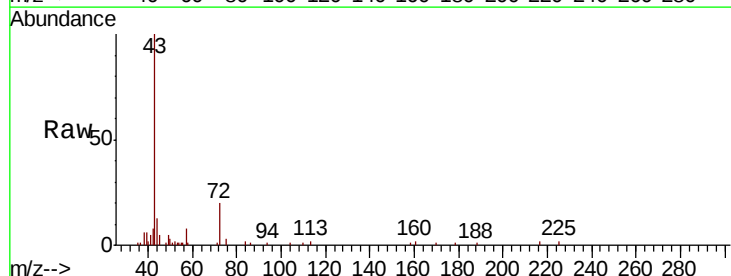


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

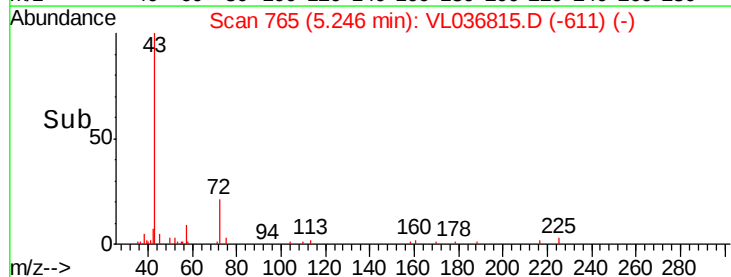
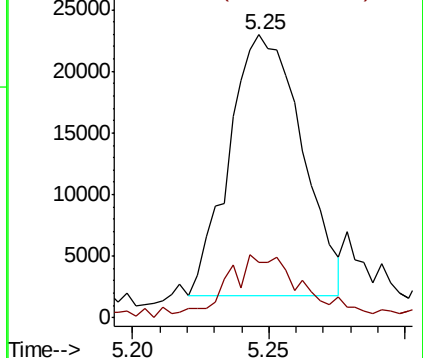


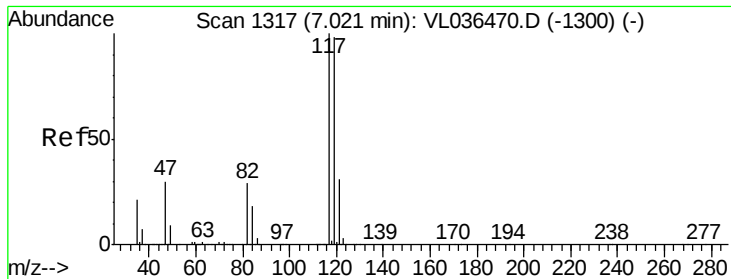
#34
 2-Butanone
 Concen: 0.256 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. -0.00 min
 Lab File: VL036815.D
 Acq: 14 Apr 2021 00:00

Tgt Ion: 43 Resp: 39050
 Ion Ratio Lower Upper
 43 100
 72 29.3 17.0 25.6#



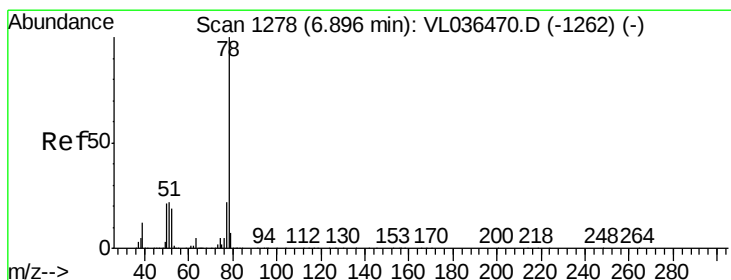
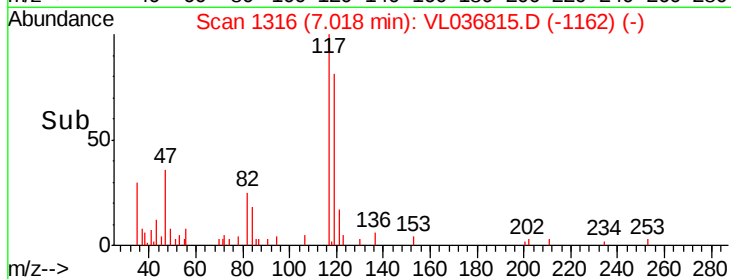
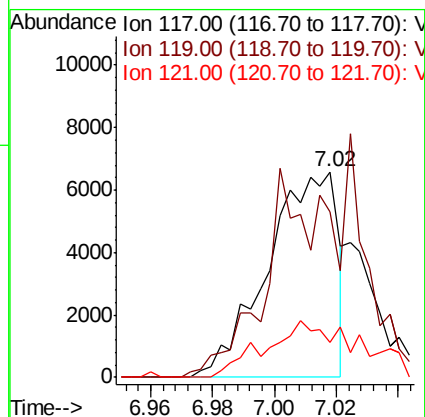
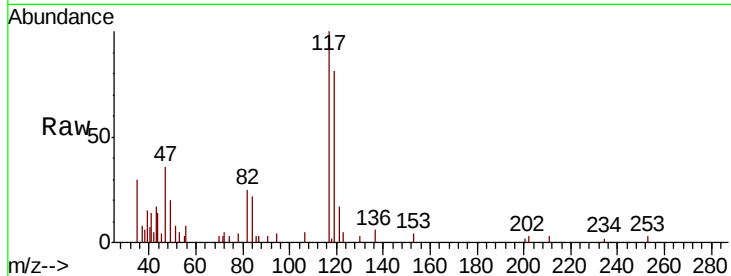
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





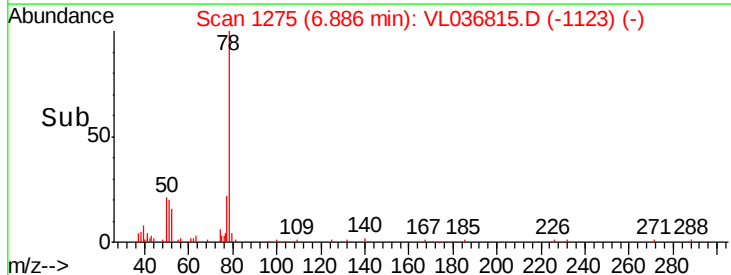
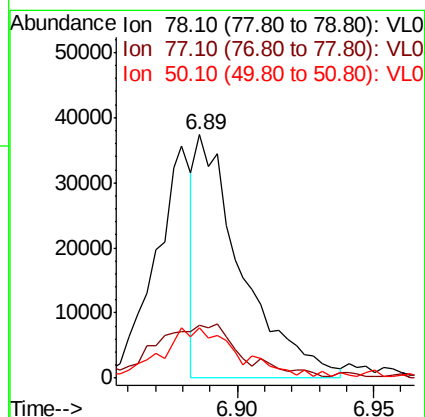
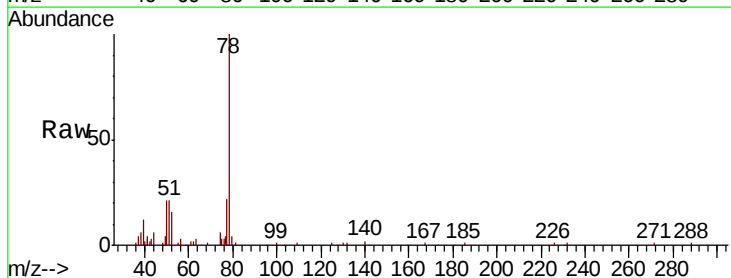
#35
Carbon Tetrachloride
Concen: 0.043 ppbv
RT: 7.02
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Apr 2021 00:00

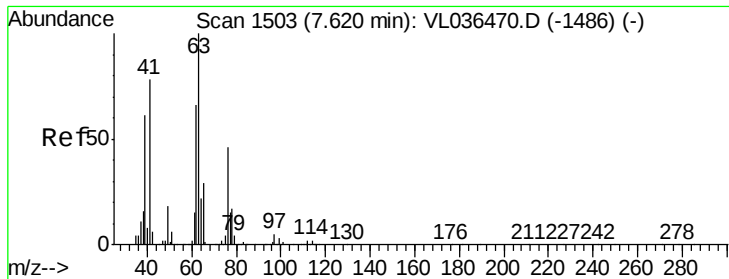
Tot Ion:117 Resp: 10292
Ion Ratio Lower Upper
117 100
119 77.8 78.2 117.2#
121 16.8 24.5 36.7#



#36
Benzene
Concen: 0.149 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VL036815.D
Acq: 14 Apr 2021 00:00

Tgt Ion: 78 Resp: 42968
Ion Ratio Lower Upper
78 100
77 19.8 18.0 27.0
50 19.3 16.5 24.7





#39

1,2-Dichloropropane

Concen: 7.035 ppbv

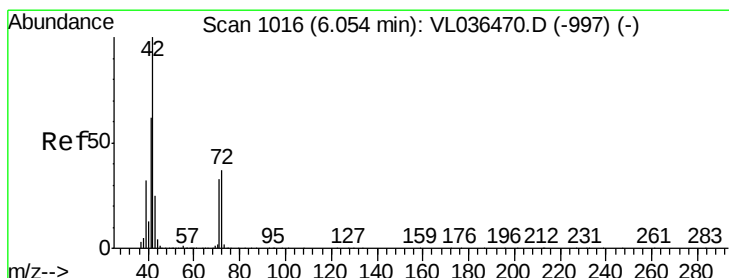
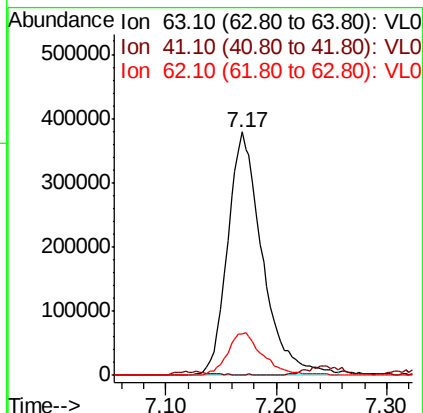
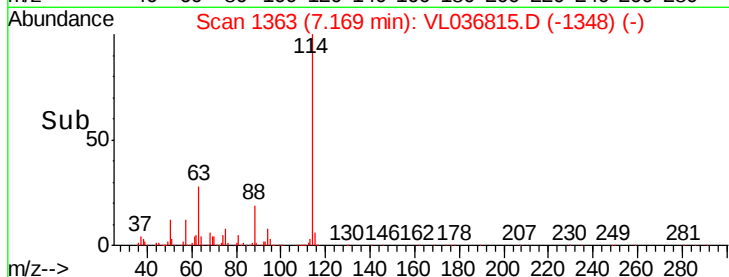
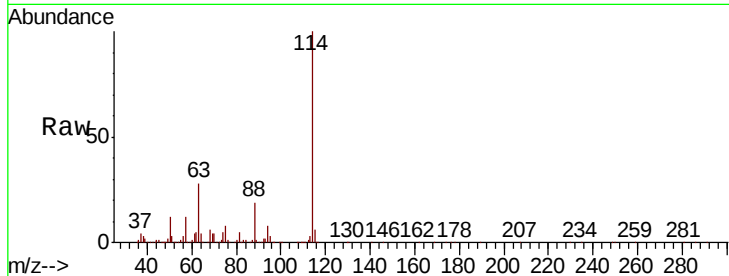
RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2021 00:00

Tot Ion:	63	Resp:	823817
Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.4	93.6#
62	17.2	52.8	79.2#



#41

Tetrahydrofuran

Concen: 0.084 ppbv

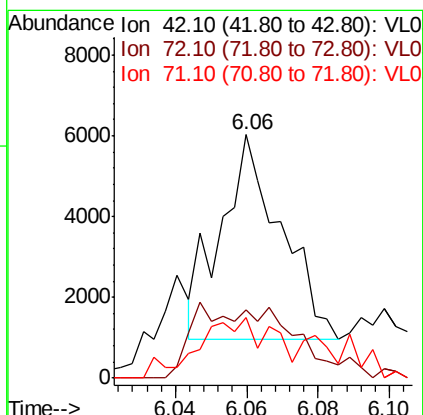
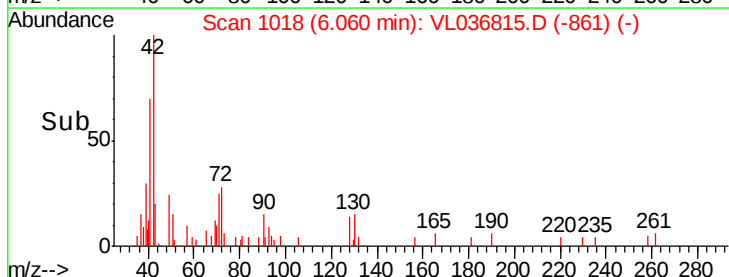
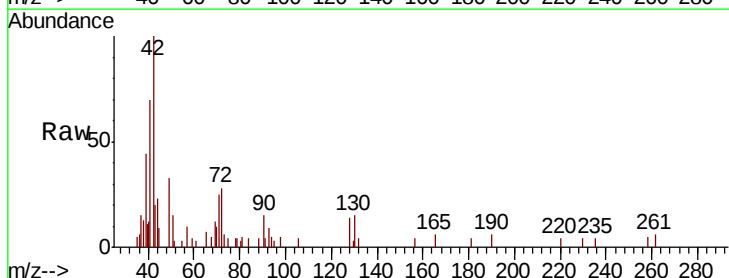
RT: 6.06 min Scan# 1018

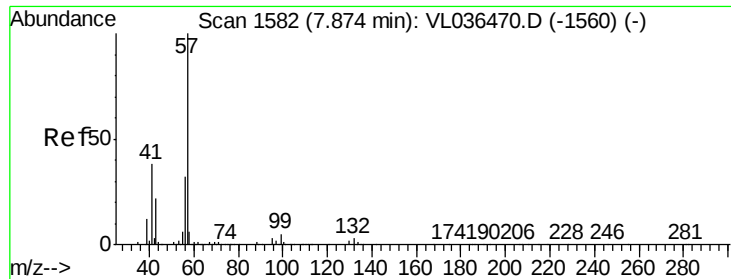
Delta R.T. 0.01 min

Lab File: VL036815.D

Acq: 14 Apr 2021 00:00

Tgt Ion:	42	Resp:	5927
Ion	Ratio	Lower	Upper
42	100		
72	59.7	27.6	41.4#
71	58.0	27.0	40.4#





#44

2,2,4-Trimethylpentane

Concen: 0.073 ppbv

RT: 7.87 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2021 00:00

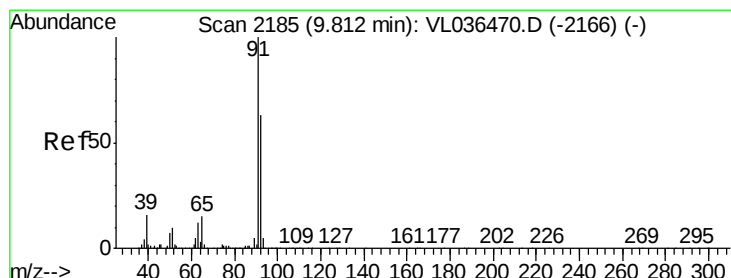
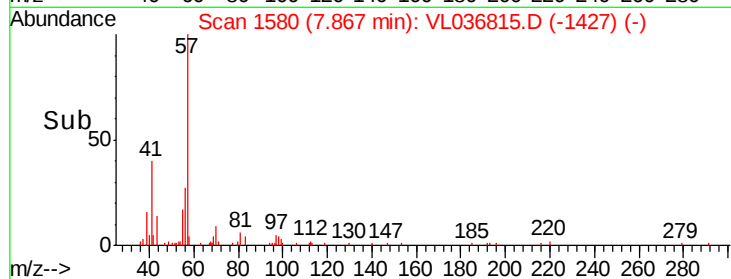
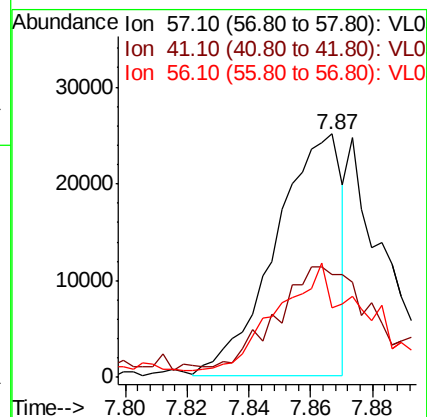
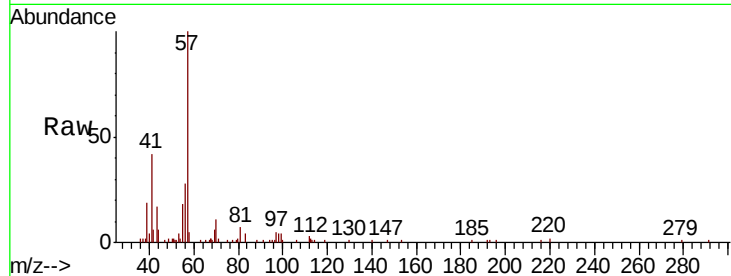
Tot Ion: 57 Resp: 37171

Ion Ratio Lower Upper

57 100

41 82.2 28.8 43.2#

56 74.3 26.1 39.1#



#53

Toluene

Concen: 0.509 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL036815.D

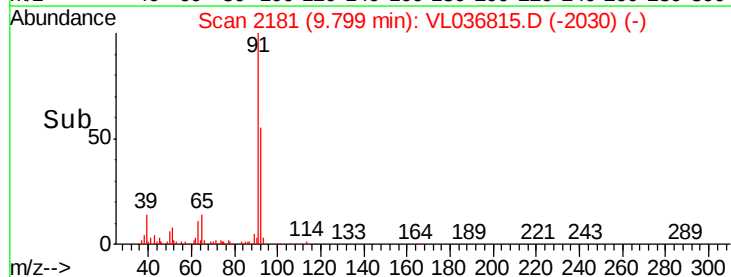
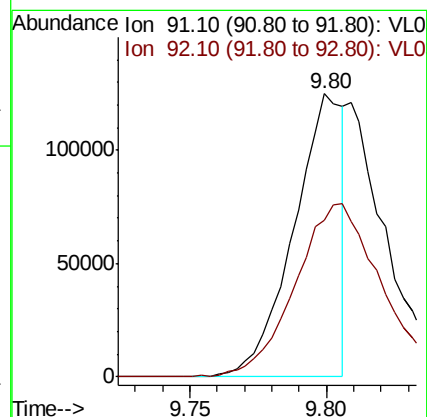
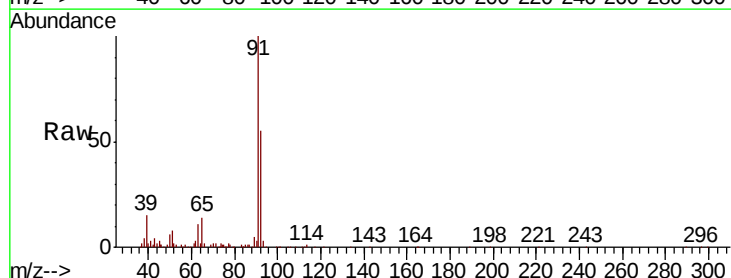
Acq: 14 Apr 2021 00:00

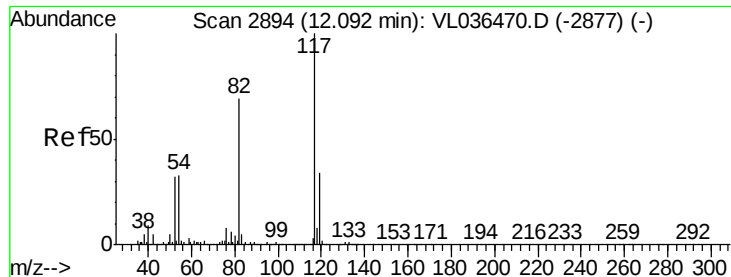
Tgt Ion: 91 Resp: 156509

Ion Ratio Lower Upper

91 100

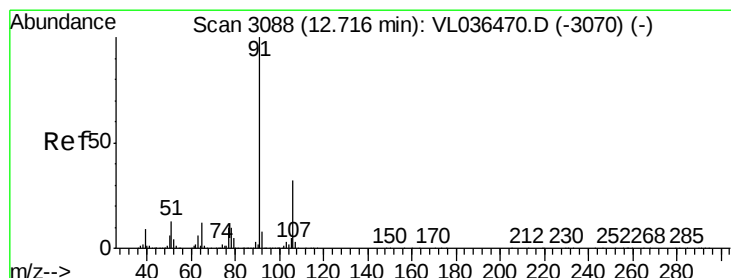
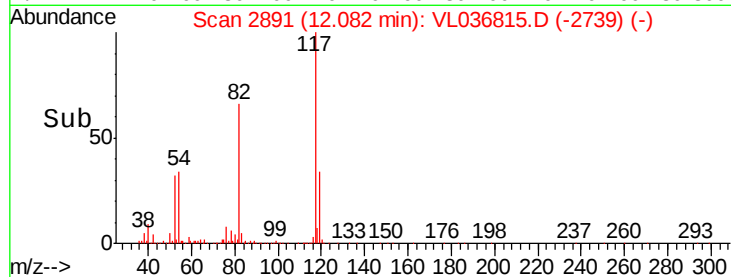
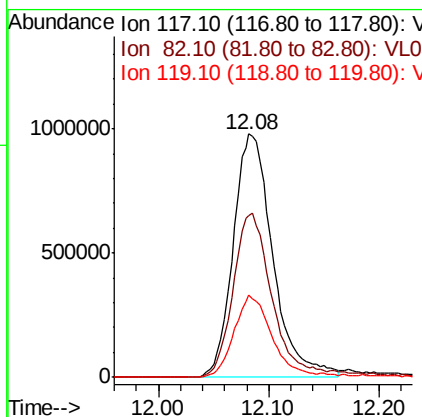
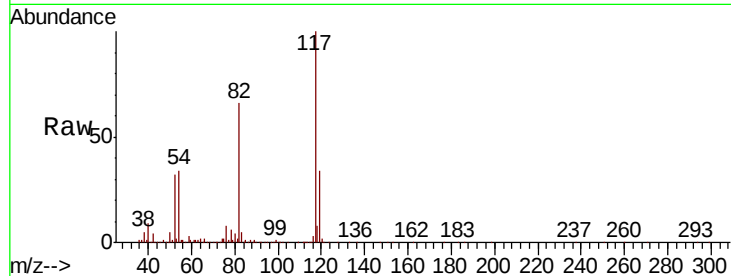
92 0.0 48.8 73.2#





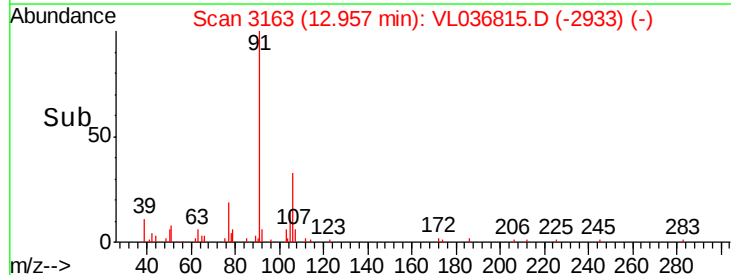
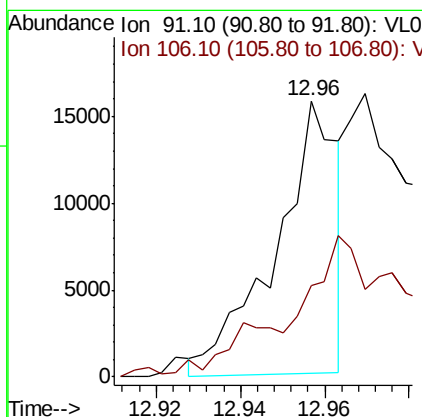
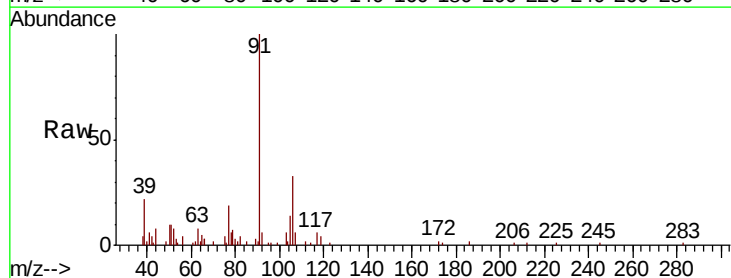
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Apr 2021 00:00

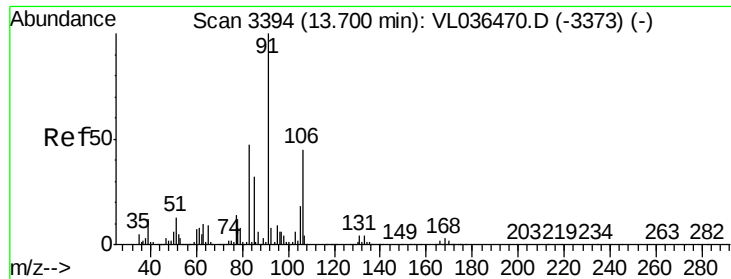
Tot Ion:117 Resp: 2436694
Ion Ratio Lower Upper
117 100
82 69.4 57.4 86.0
119 33.4 47.4 71.0#



#58
Ethyl Benzene
Concen: 0.045 ppbv
RT: 12.96 min Scan# 3163
Delta R.T. 0.24 min
Lab File: VL036815.D
Acq: 14 Apr 2021 00:00

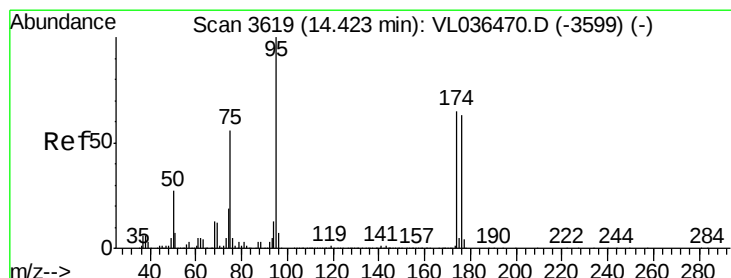
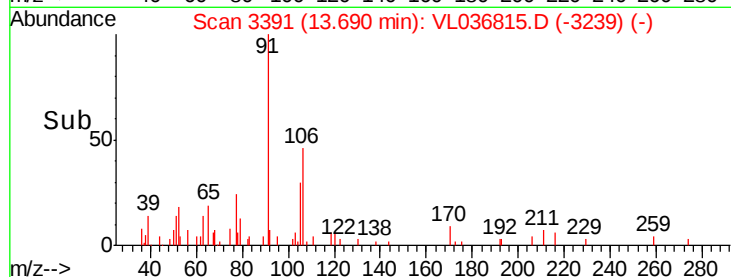
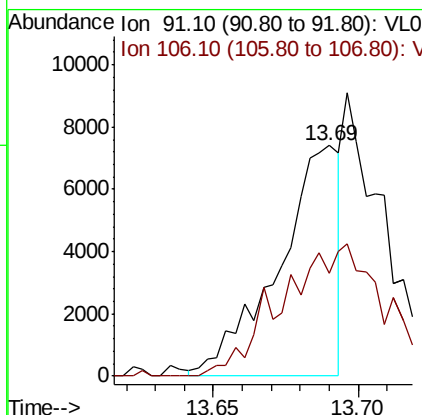
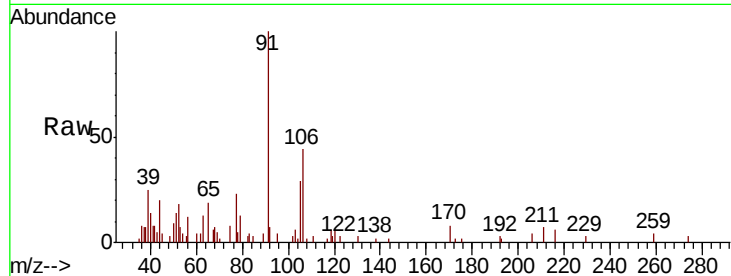
Tgt Ion: 91 Resp: 15930
Ion Ratio Lower Upper
91 100
106 28.7 25.3 37.9





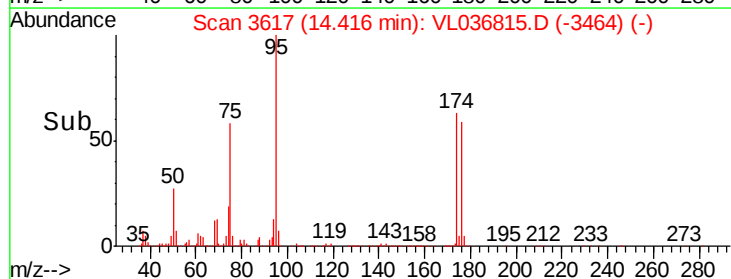
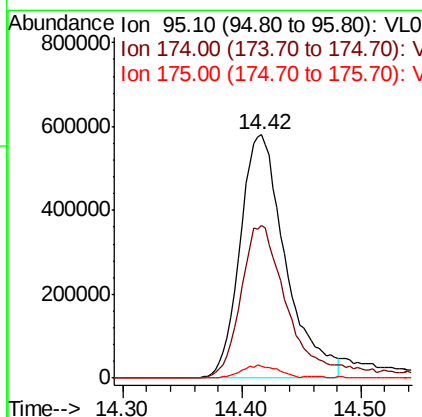
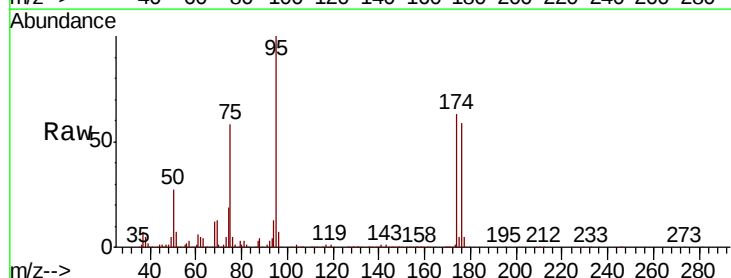
#60
o-Xylene
Concen: 0.036 ppbv
RT: 13.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Apr 2021 00:00

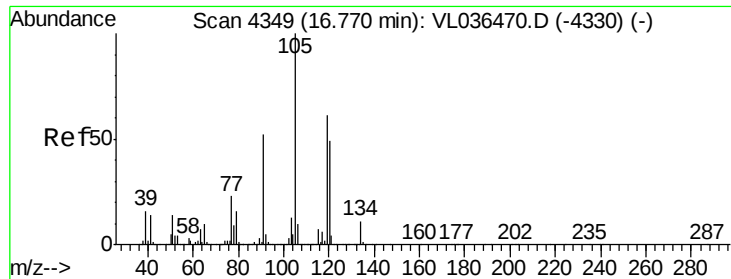
Tot Ion: 91 Resp: 10872
Ion Ratio Lower Upper
91 100
106 0.0 22.3 66.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 7.898 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL036815.D
Acq: 14 Apr 2021 00:00

Tgt Ion: 95 Resp: 1533748
Ion Ratio Lower Upper
95 100
174 70.2 51.0 76.6
175 5.0 3.9 5.9





#74

1,2,4-Trimethylbenzene

Concen: 0.055 ppbv

RT: 16.76 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Apr 2021 00:00

Tot Ion:105 Resp: 17869

Ion Ratio Lower Upper

105 100

120 43.1 39.2 58.8

91 5.4 42.6 64.0#

77 6.8 18.6 28.0#

