

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062921\
 Data File : VL037249.D
 Acq On : 29 Jun 2021 15:03
 Operator : SY/AP
 Sample : M2887-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 30 05:21:11 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 16 14:06:32 2021
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1747583	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	5091376	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	4647009	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	3488175	9.91	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

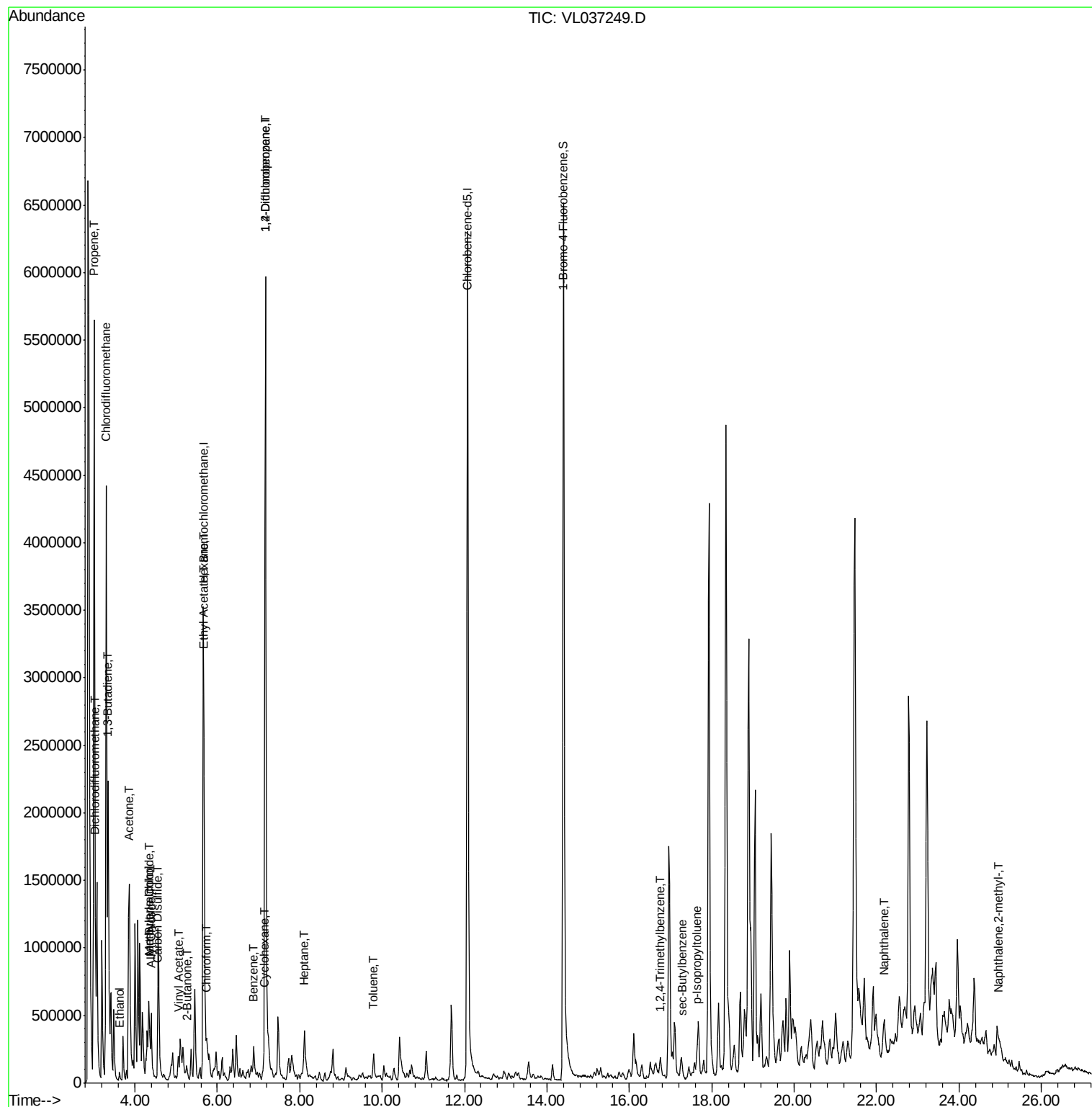
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	9371	0.031 ppbv	99
3) Chlorodifluoromethane	3.30	51	317061	0.933 ppbv #	57
9) Propene	3.01	41	3272254	30.117 ppbv	93
10) Heptane	8.11	43	155659	0.592 ppbv	94
13) Ethanol	3.63	45	29051	1.728 ppbv	58
15) Acetone	3.85	43	2229851	11.315 ppbv	94
16) 1,3-Butadiene	3.35	39	418890	3.596 ppbv	93
17) tert-Butyl alcohol	4.33	59	50756	0.279 ppbv #	78
20) Methylene Chloride	4.34	84	204735	1.735 ppbv	99
21) Allyl Chloride	4.39	41	50927	0.343 ppbv #	1
23) Vinyl Acetate	5.07	43	12175	0.043 ppbv #	1
25) Ethyl Acetate	5.68	43	251364	0.589 ppbv #	75
26) Hexane	5.67	57	347377	1.611 ppbv #	41
27) Carbon Disulfide	4.54	76	7878	0.037 ppbv #	44
29) Chloroform	5.74	83	48205	0.145 ppbv	92
30) Cyclohexane	7.12	84	20742	0.115 ppbv #	15
34) 2-Butanone	5.26	43	119913	0.606 ppbv #	86
36) Benzene	6.88	78	203302	0.494 ppbv	93
39) 1,2-Dichloropropane	7.16	63	1253105	8.191 ppbv #	24
53) Toluene	9.79	91	162711	0.331 ppbv	99
67) sec-Butylbenzene	17.28	105	31496	0.036 ppbv #	57
69) p-Isopropyltoluene	17.63	119	51837	0.071 ppbv #	48
74) 1,2,4-Trimethylbenzene	16.75	105	93061	0.159 ppbv #	71
79) Naphthalene	22.18	128	39367	0.081 ppbv	96
80) Naphthalene,2-methyl-	24.96	142	99450	0.779 ppbv #	83

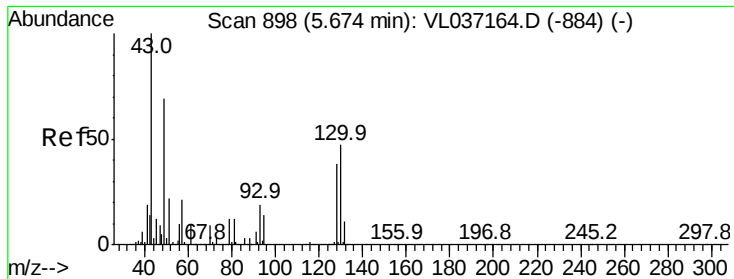
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 16 14:06:32 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.02 min

Lab File: VL037249.D

Acq: 29 Jun 2021 15:03

Instrument :
MSVOA_L
ClientSampleId :

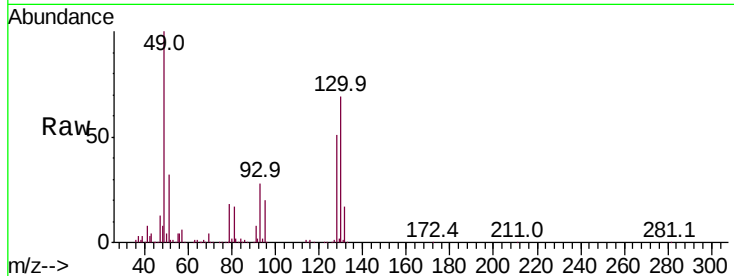
Tot Ion: 49 Resp: 1747583

Ion Ratio Lower Upper

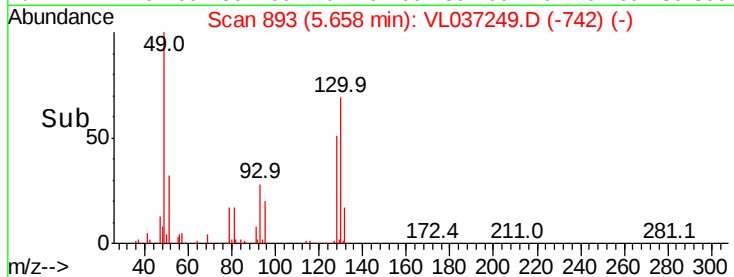
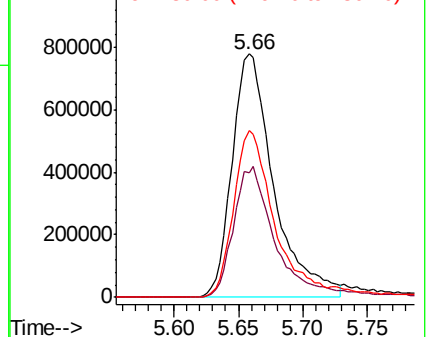
49 100

128 56.3 29.3 88.0

130 70.7 35.9 107.8



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: 0.031 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL037249.D

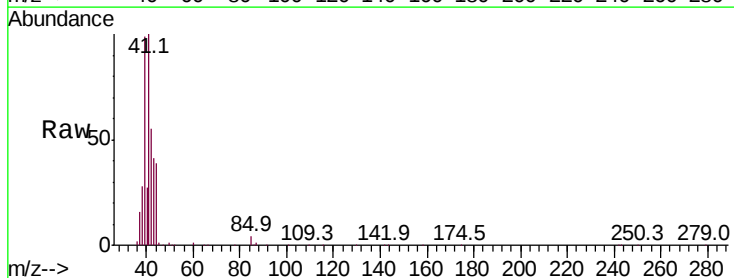
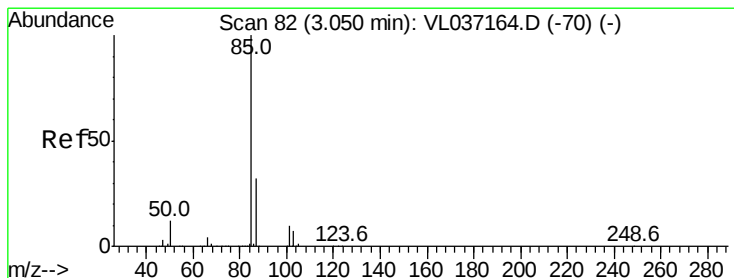
Acq: 29 Jun 2021 15:03

Tgt Ion: 85 Resp: 9371

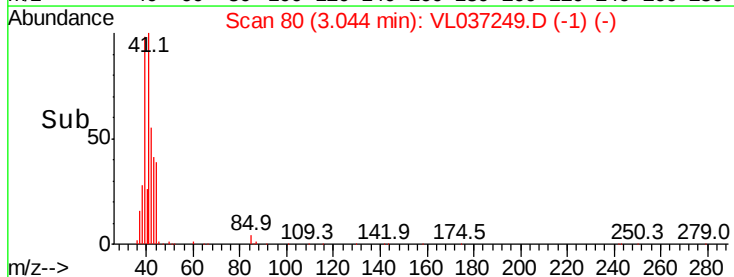
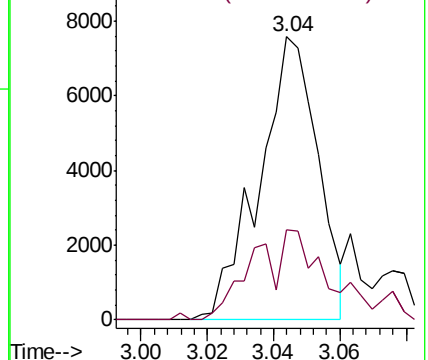
Ion Ratio Lower Upper

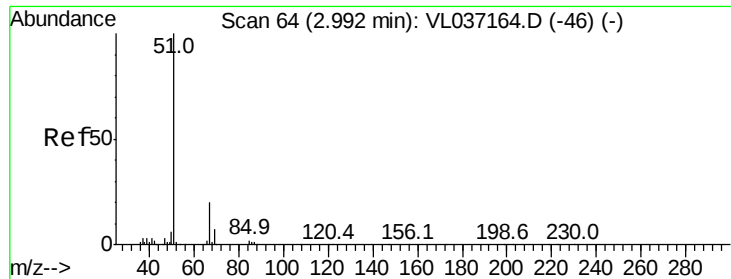
85 100

87 32.9 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0

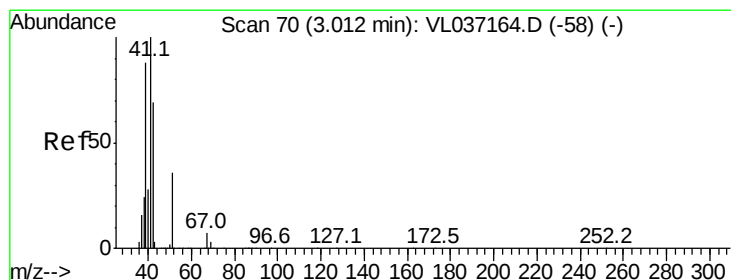
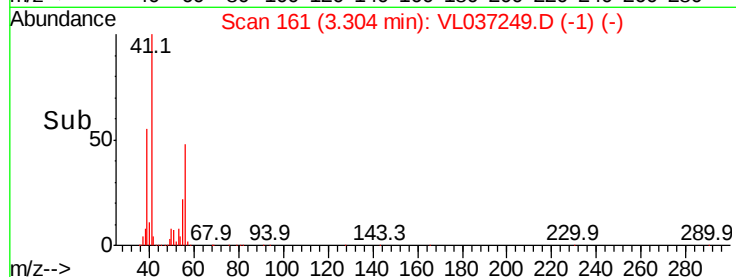
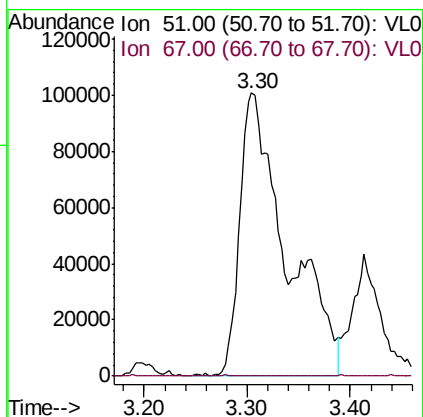
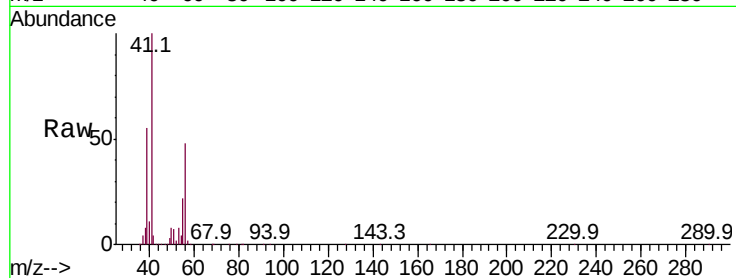




#3
 Chlorodifluoromethane
 Concen: 0.933 ppbv
 RT: 3.30 min Scan# 161
 Delta R.T. 0.31 min
 Lab File: VL037249.D
 Acq: 29 Jun 2021 15:03

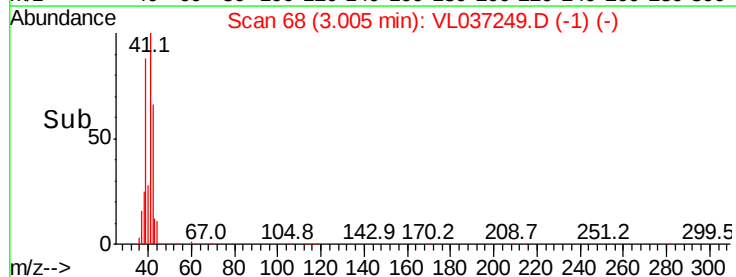
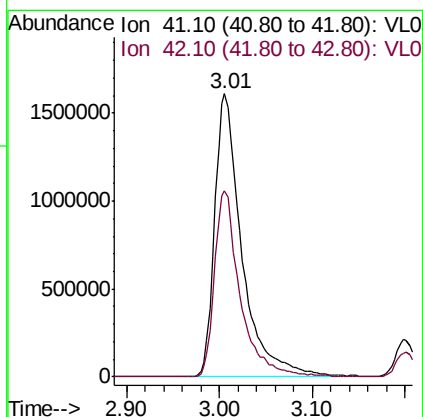
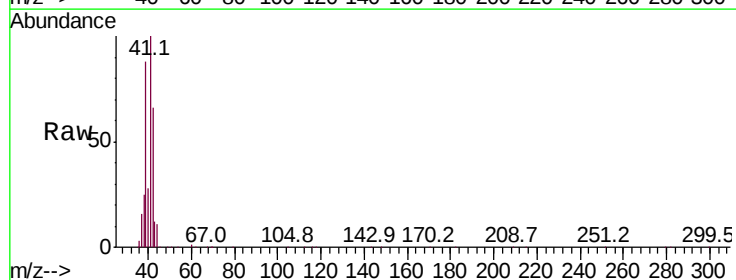
Instrument :
 MSVOA_L
 ClientSampleId :

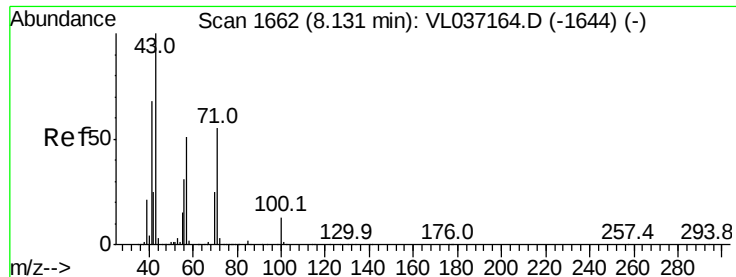
Tot Ion: 51 Resp: 317061
 Ion Ratio Lower Upper
 51 100
 67 0.1 15.8 23.6#



#9
 Propene
 Concen: 30.117 ppbv
 RT: 3.01 min Scan# 68
 Delta R.T. -0.01 min
 Lab File: VL037249.D
 Acq: 29 Jun 2021 15:03

Tgt Ion: 41 Resp: 3272254
 Ion Ratio Lower Upper
 41 100
 42 62.5 54.5 81.7

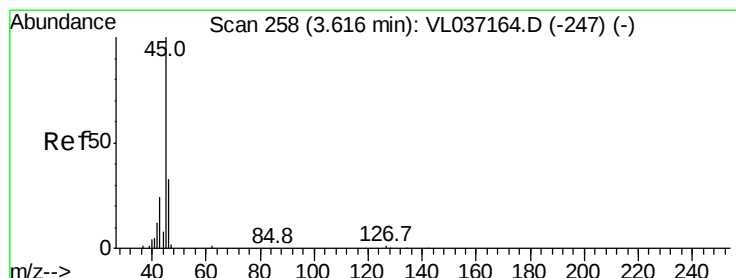
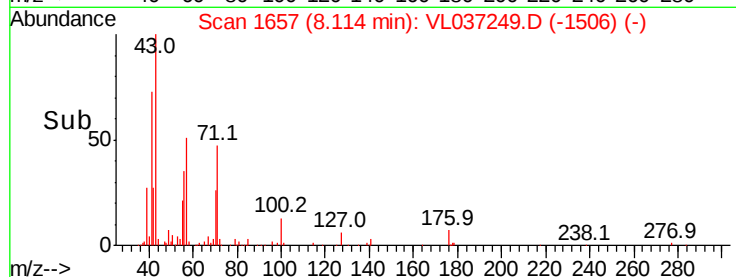
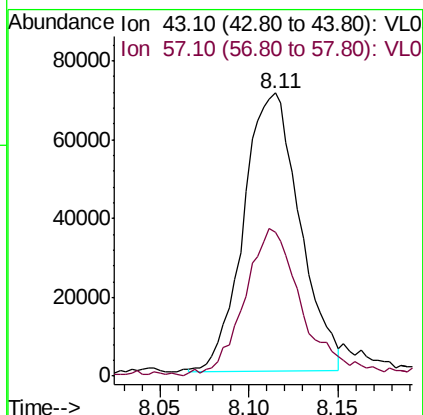
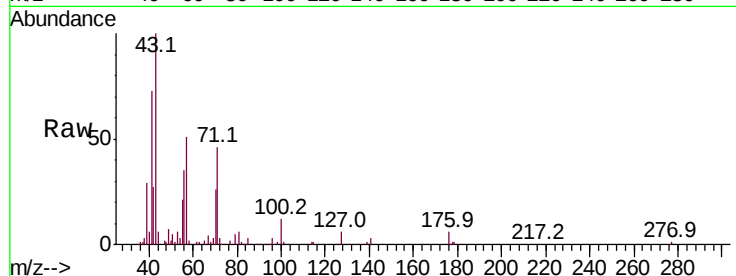




#10
Heptane
Concen: 0.592 ppbv
RT: 8.11 min Scan# 1657
Delta R.T. -0.02 min
Lab File: VL037249.D
Acq: 29 Jun 2021 15:03

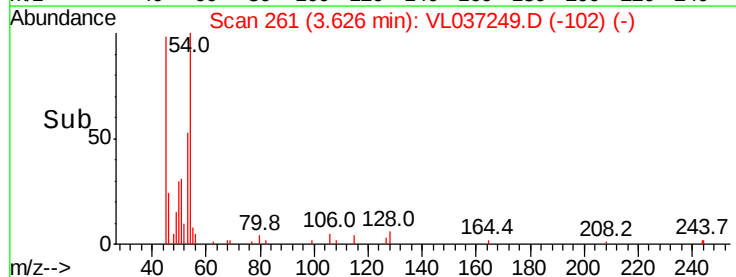
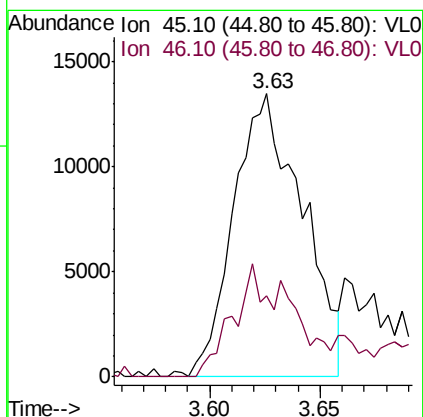
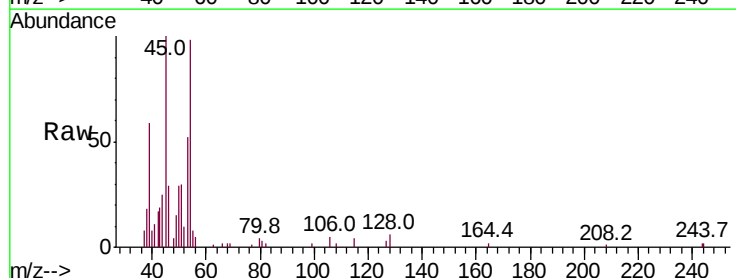
Instrument :
MSVOA_L
ClientSampled :

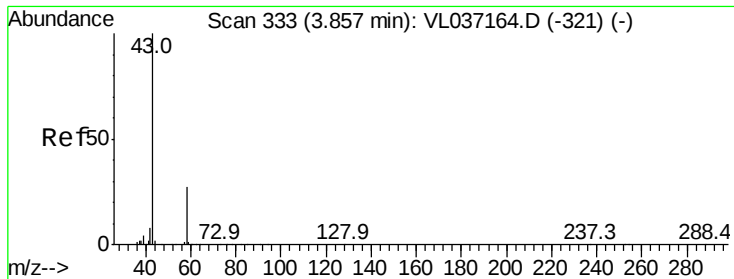
Tot Ion: 43 Resp: 155659
Ion Ratio Lower Upper
43 100
57 54.8 40.6 61.0



#13
Ethanol
Concen: 1.728 ppbv
RT: 3.63 min Scan# 261
Delta R.T. 0.01 min
Lab File: VL037249.D
Acq: 29 Jun 2021 15:03

Tgt Ion: 45 Resp: 29051
Ion Ratio Lower Upper
45 100
46 47.0 34.2 137.0





#15

Acetone

Concen: 11.315 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL037249.D

Acq: 29 Jun 2021 15:03

Instrument :

MSVOA_L

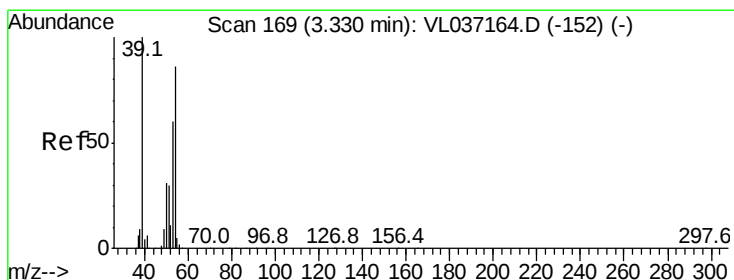
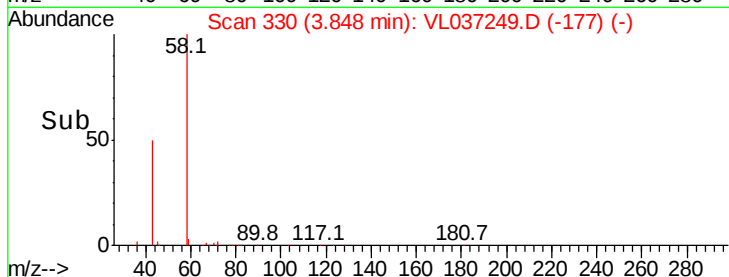
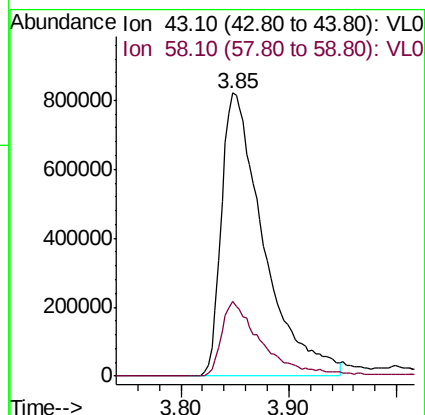
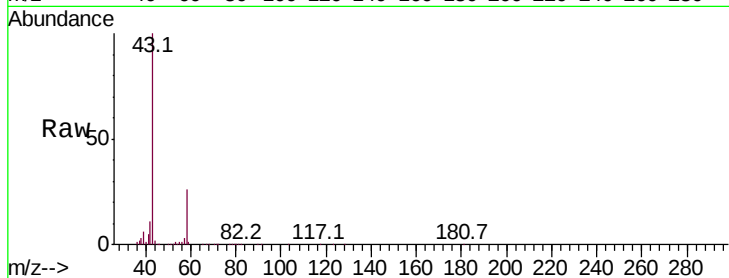
ClientSampleId :

Tot Ion: 43 Resp: 2229851

Ion Ratio Lower Upper

43 100

58 26.3 23.7 35.5



#16

1,3-Butadiene

Concen: 3.596 ppbv

RT: 3.35 min Scan# 174

Delta R.T. 0.02 min

Lab File: VL037249.D

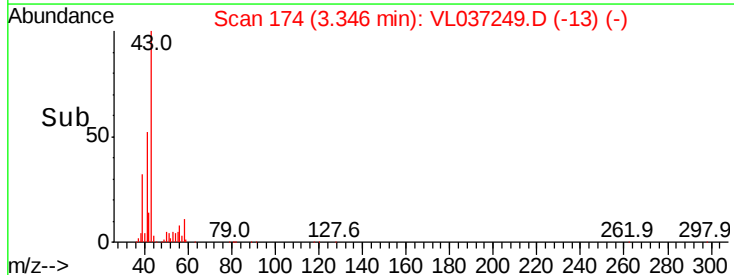
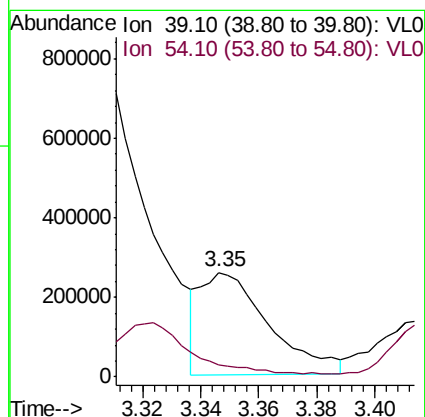
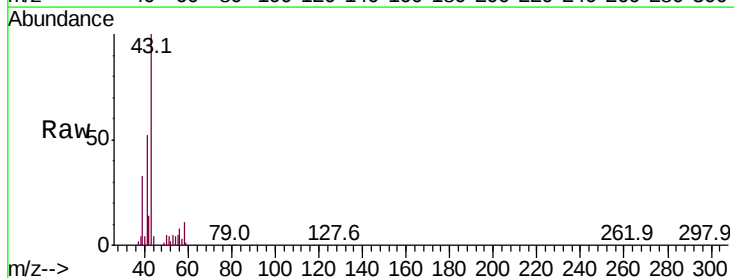
Acq: 29 Jun 2021 15:03

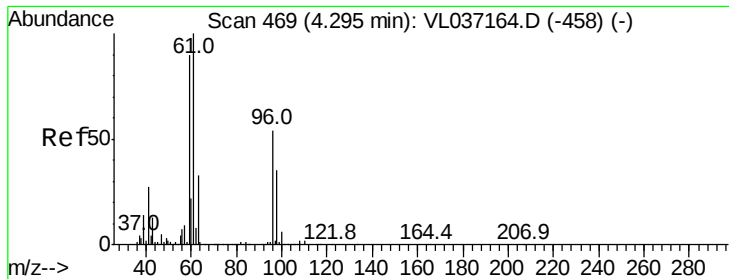
Tgt Ion: 39 Resp: 418890

Ion Ratio Lower Upper

39 100

54 70.8 61.2 91.8



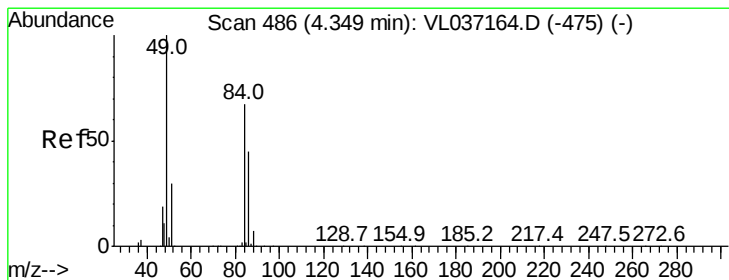
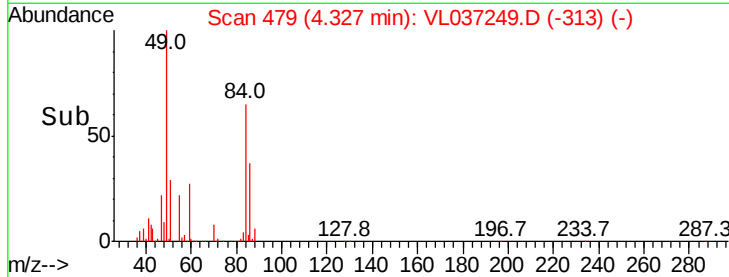
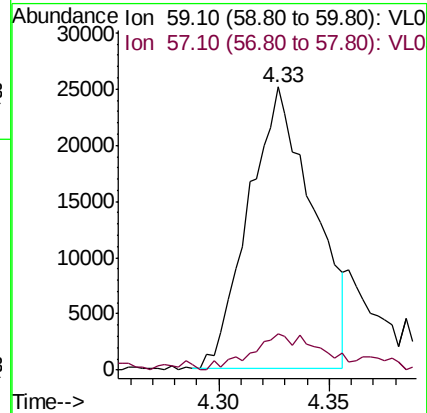
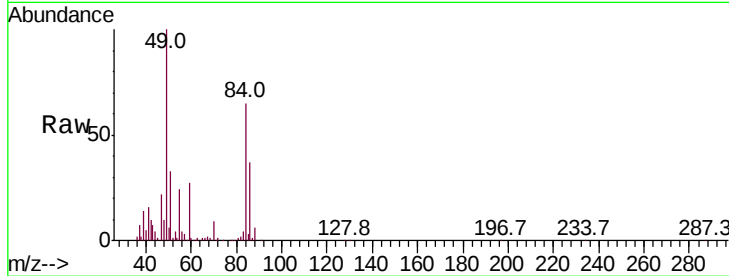


#17

tert-Butyl alcohol
Concen: 0.279 ppbv
RT: 4.33 min Scan# 479
Delta R.T. 0.03 min
Lab File: VL037249.D
Acq: 29 Jun 2021 15:03

Instrument :
MSVOA_L
ClientSampled :

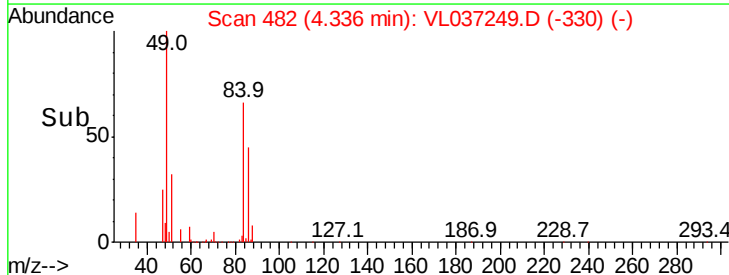
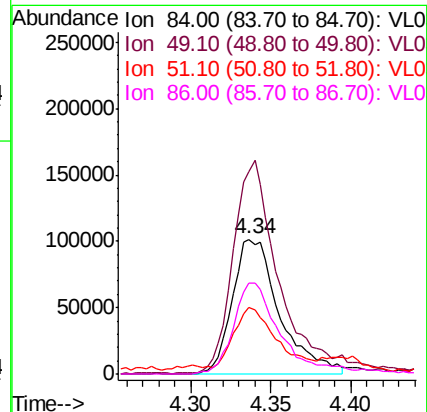
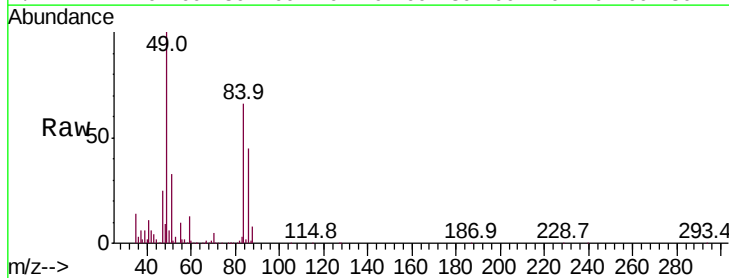
Tot Ion: 59 Resp: 50756
Ion Ratio Lower Upper
59 100
57 19.3 8.8 13.2#

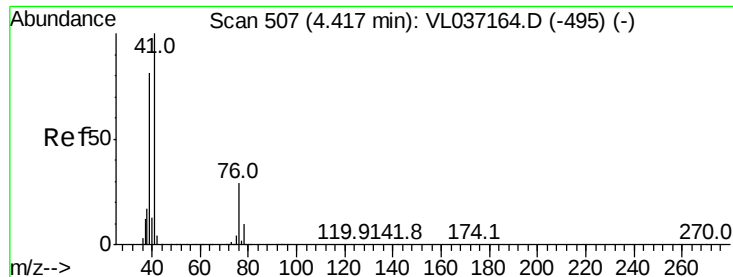


#20

Methylene Chloride
Concen: 1.735 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL037249.D
Acq: 29 Jun 2021 15:03

Tgt Ion: 84 Resp: 204735
Ion Ratio Lower Upper
84 100
49 149.2 119.7 179.5
51 42.6 36.1 54.1
86 67.2 53.7 80.5





#21

Allvl Chloride

Concen: 0.343 ppbv

RT: 4.39 min Scan# 499

Delta R.T. -0.03 min

Lab File: VL037249.D

Acq: 29 Jun 2021 15:03

Instrument :

MSVOA_L

ClientSampled :

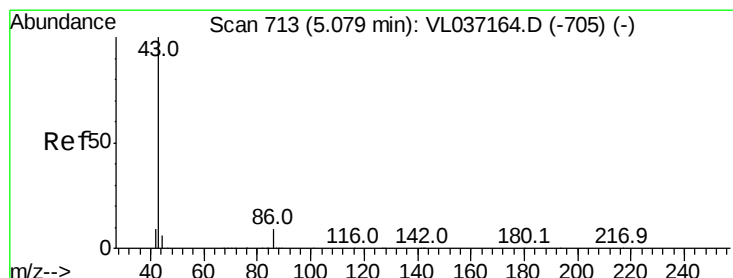
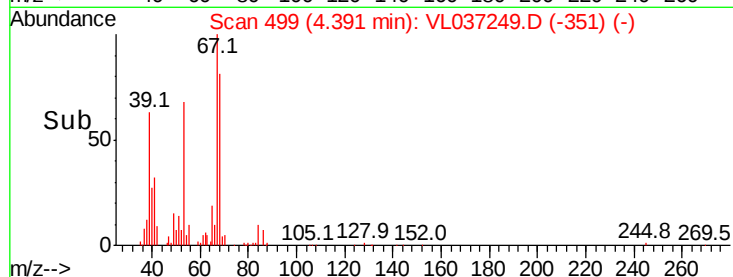
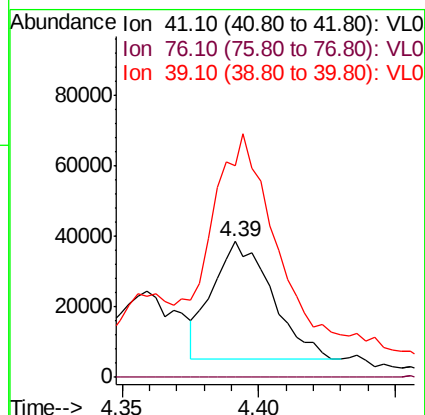
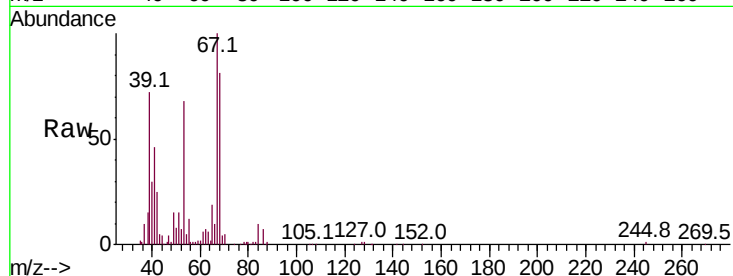
Tot Ion: 41 Resp: 50927

Ion Ratio Lower Upper

41 100

76 0.0 24.6 37.0#

39 302.7 65.4 98.0#



#23

Vinyl Acetate

Concen: 0.043 ppbv

RT: 5.07 min Scan# 709

Delta R.T. -0.01 min

Lab File: VL037249.D

Acq: 29 Jun 2021 15:03

Tgt Ion: 43 Resp: 12175

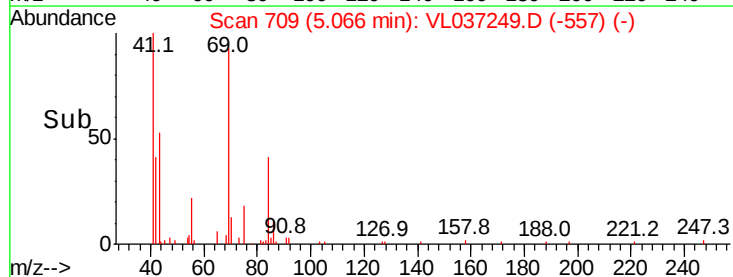
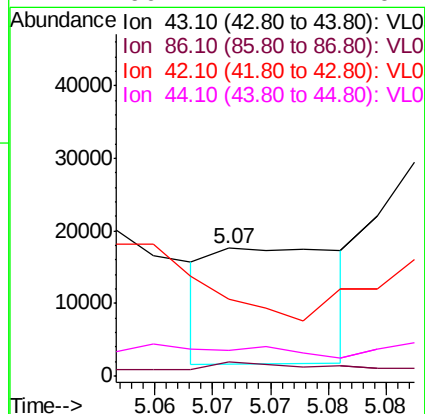
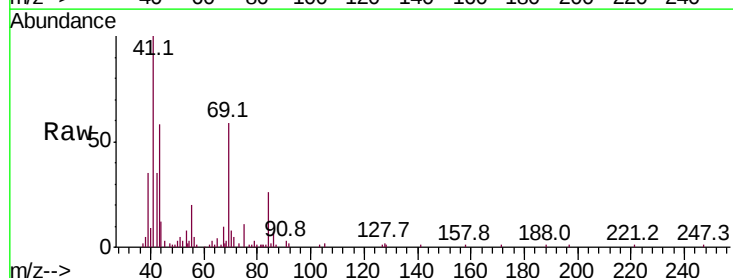
Ion Ratio Lower Upper

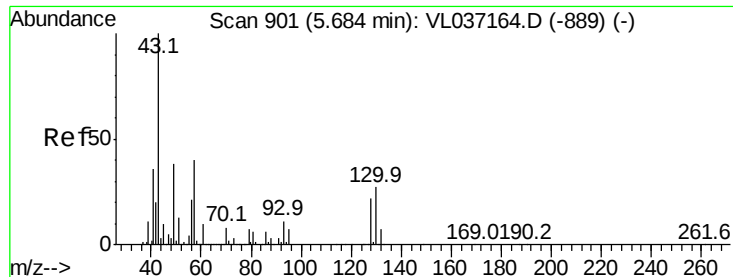
43 100

86 62.4 5.8 8.8#

42 0.0 8.2 12.2#

44 60.7 4.2 6.4#

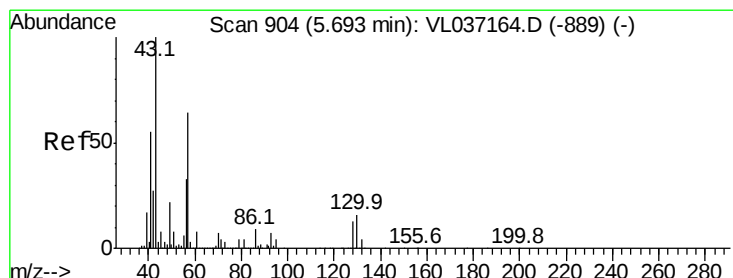
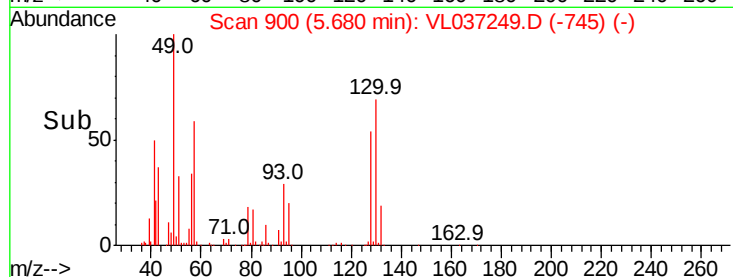
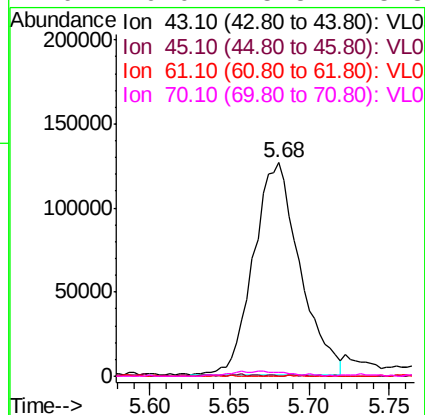
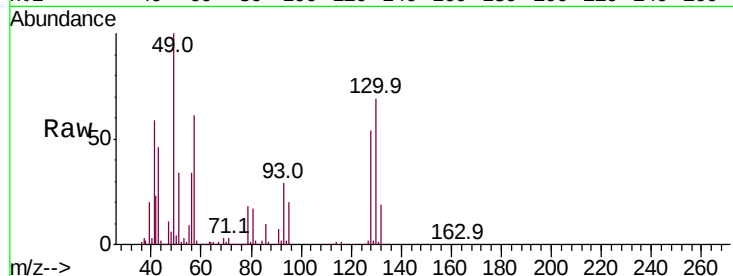




#25
Ethyl Acetate
Concen: 0.589 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL037249.D
Acq: 29 Jun 2021 15:03

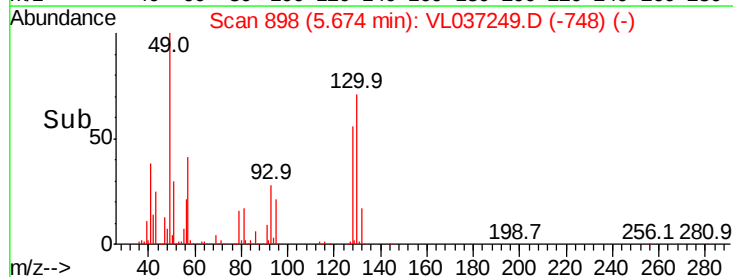
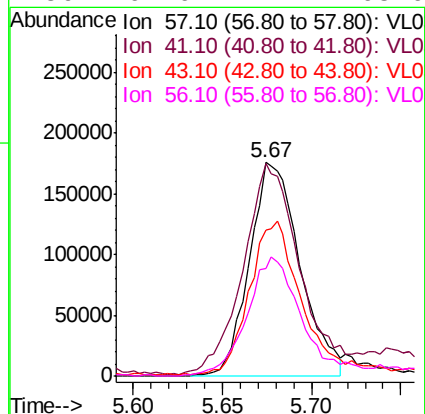
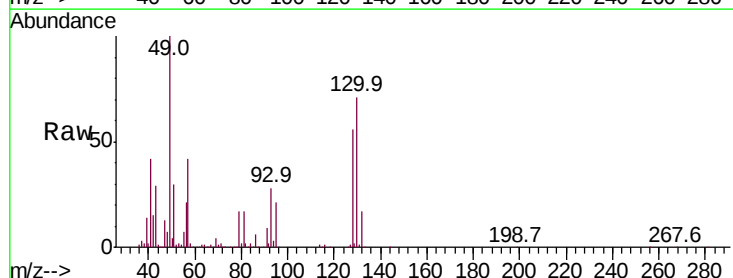
Instrument :
MSVOA_L
ClientSampleId :

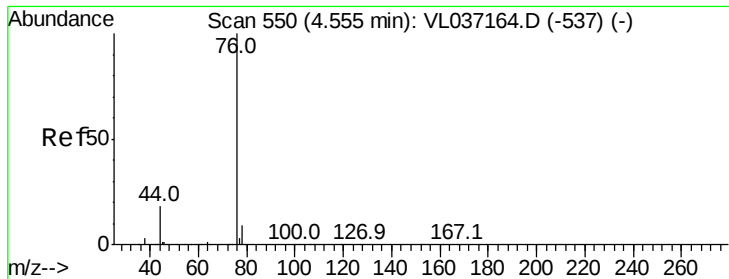
Tot Ion:	43	Resp:	251364
Ion	Ratio	Lower	Upper
43	100		
45	0.3	8.0	12.0#
61	0.4	8.1	12.1#
70	0.0	5.5	8.3#



#26
Hexane
Concen: 1.611 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.02 min
Lab File: VL037249.D
Acq: 29 Jun 2021 15:03

Tgt Ion:	57	Resp:	347377
Ion	Ratio	Lower	Upper
57	100		
41	112.1	73.5	110.3#
43	78.5	170.7	256.1#
56	67.6	42.4	63.6#





#27

Carbon Disulfide

Concen: 0.037 ppbv

RT: 4.54 min Scan# 546

Delta R.T. -0.01 min

Lab File: VL037249.D

Acq: 29 Jun 2021 15:03

Instrument :

MSVOA_L

ClientSampleId :

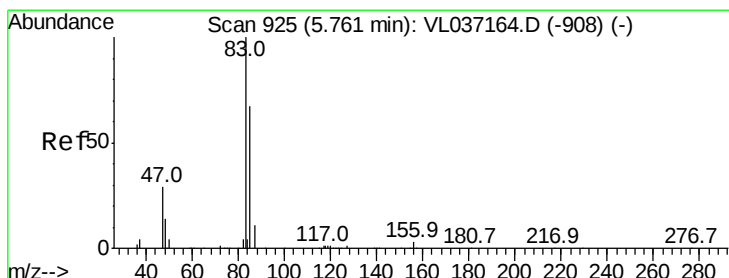
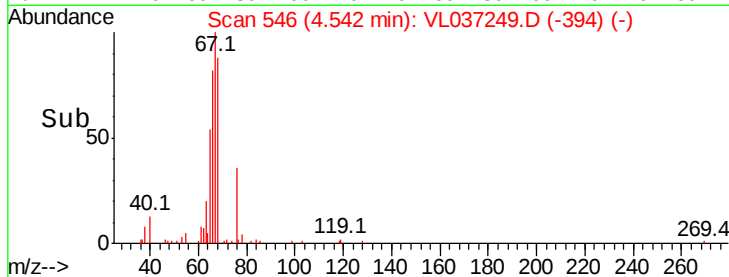
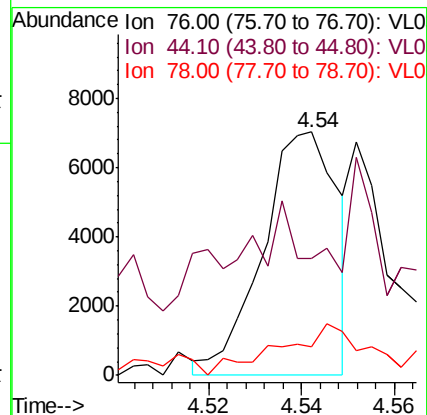
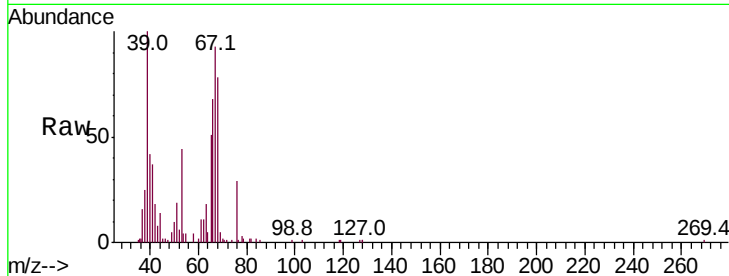
Tot Ion: 76 Resp: 7878

Ion Ratio Lower Upper

76 100

44 0.0 15.4 23.2#

78 39.8 8.0 12.0#



#29

Chloroform

Concen: 0.145 ppbv

RT: 5.74 min Scan# 919

Delta R.T. -0.02 min

Lab File: VL037249.D

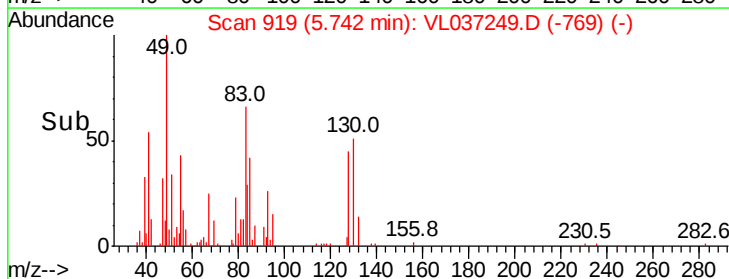
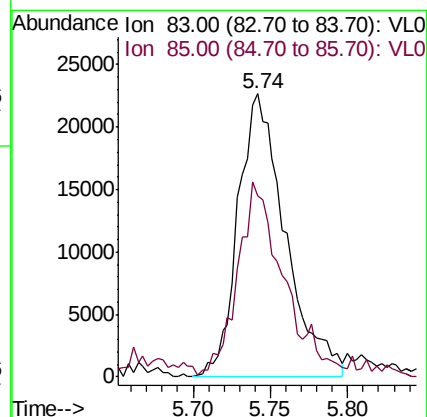
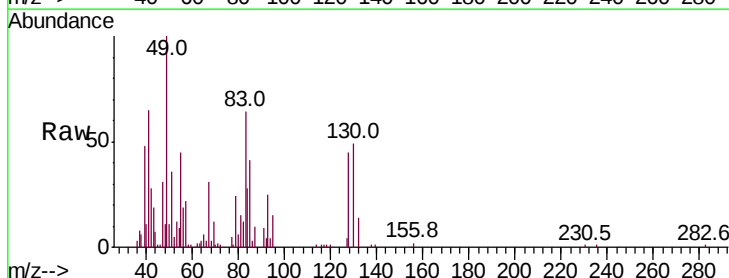
Acq: 29 Jun 2021 15:03

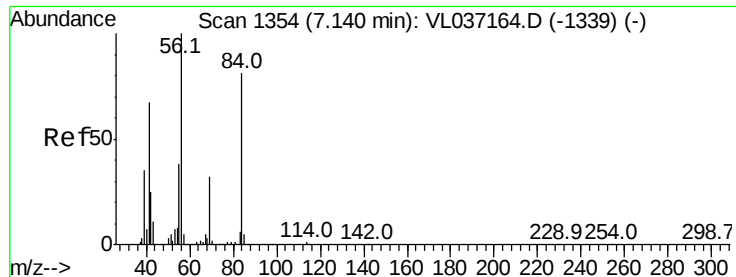
Tgt Ion: 83 Resp: 48205

Ion Ratio Lower Upper

83 100

85 60.4 53.6 80.4

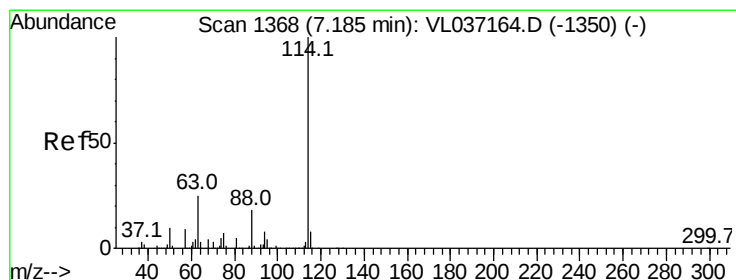
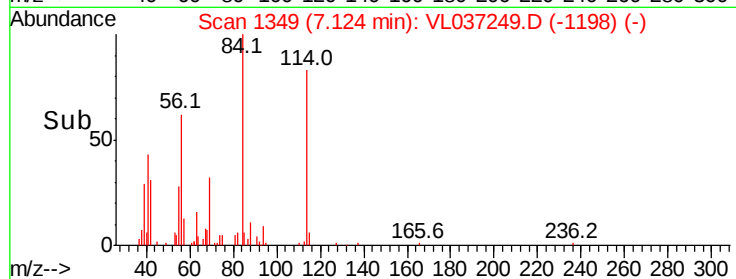
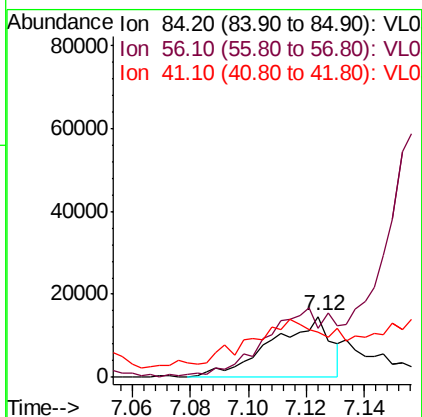
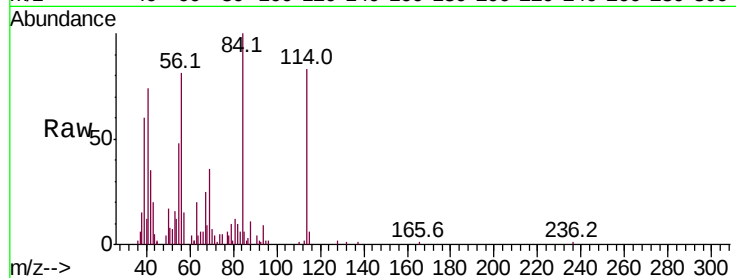




#30
Cvclohexane
Concen: 0.115 ppbv
RT: 7.12 min Scan# 1349
Delta R.T. -0.02 min
Lab File: VL037249.D
Acq: 29 Jun 2021 15:03

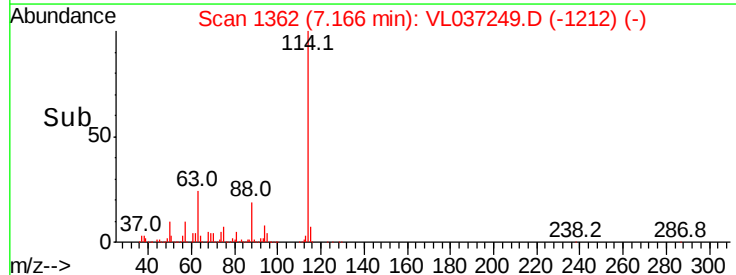
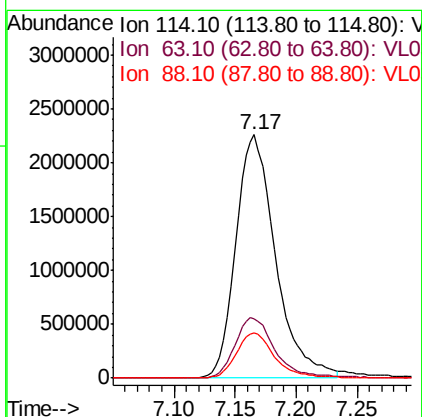
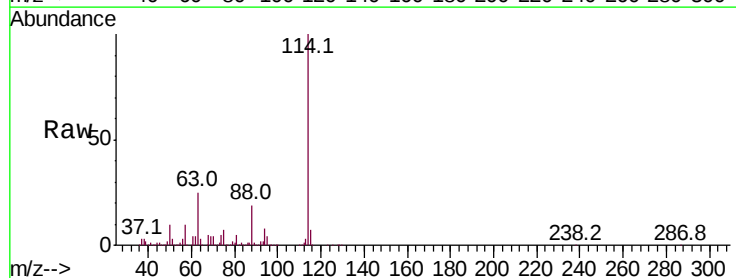
Instrument :
MSVOA_L
ClientSampleId :

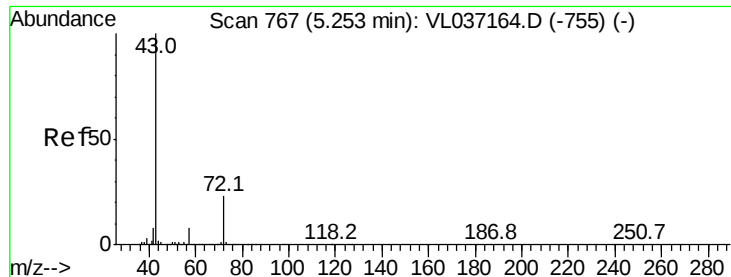
Tot Ion: 84 Resp: 20742
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 125.2 69.0 103.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.02 min
Lab File: VL037249.D
Acq: 29 Jun 2021 15:03

Tgt Ion:114 Resp: 5091376
Ion Ratio Lower Upper
114 100
63 25.6 19.6 29.4
88 18.4 14.2 21.2

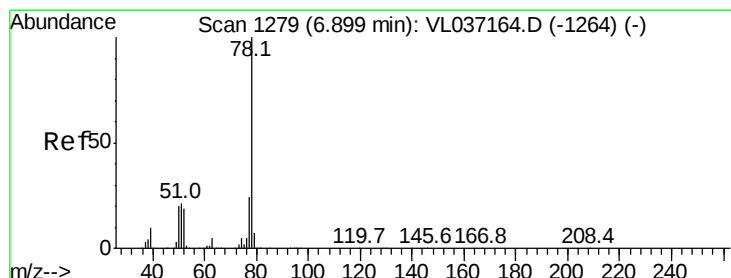
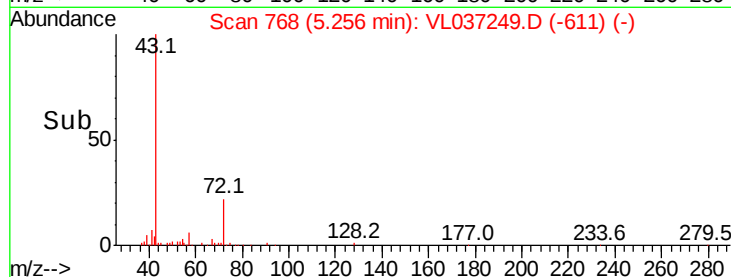
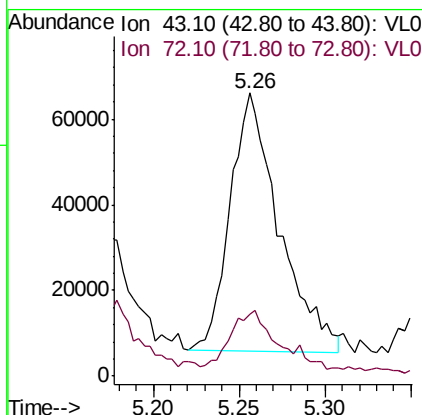
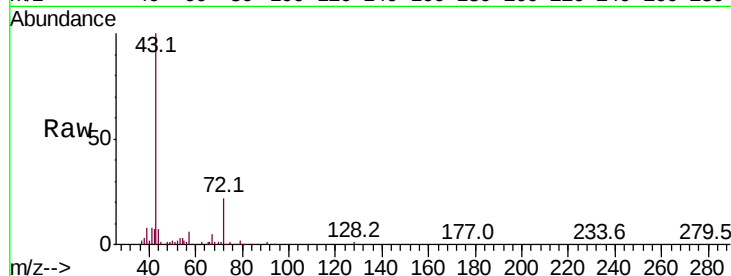




#34
2-Butanone
Concen: 0.606 ppbv
RT: 5.26 min Scan# 768
Delta R.T. 0.00 min
Lab File: VL037249.D
Acq: 29 Jun 2021 15:03

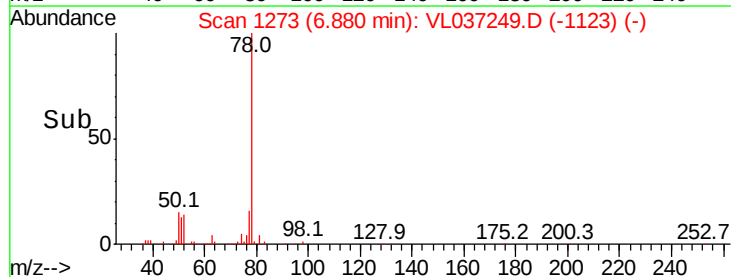
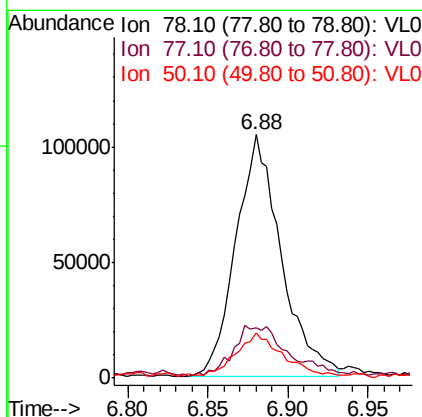
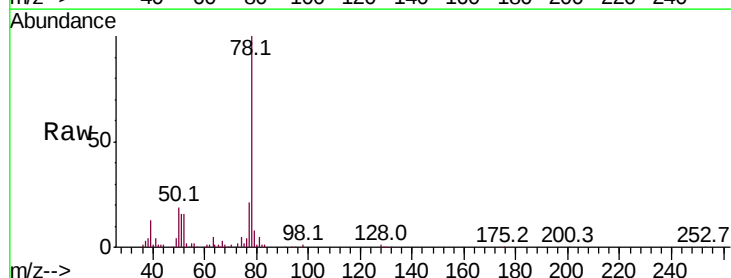
Instrument :
MSVOA_L
ClientSampleId :

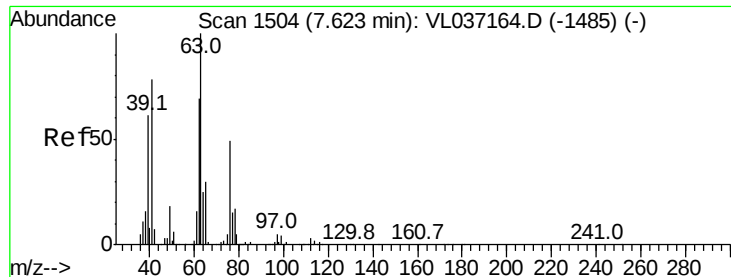
Tot Ion: 43 Resp: 119913
Ion Ratio Lower Upper
43 100
72 30.4 18.9 28.3#



#36
Benzene
Concen: 0.494 ppbv
RT: 6.88 min Scan# 1273
Delta R.T. -0.02 min
Lab File: VL037249.D
Acq: 29 Jun 2021 15:03

Tgt Ion: 78 Resp: 203302
Ion Ratio Lower Upper
78 100
77 19.9 19.0 28.6
50 17.4 15.7 23.5



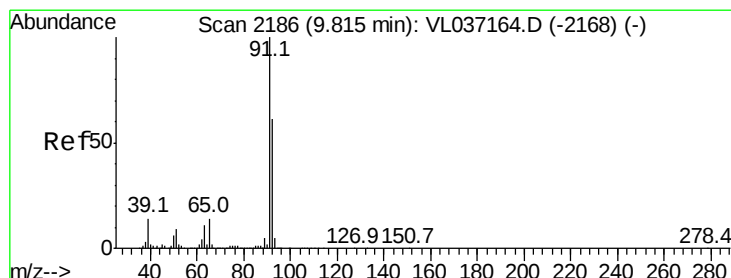
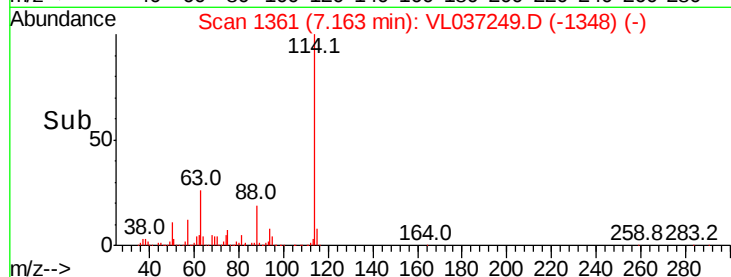
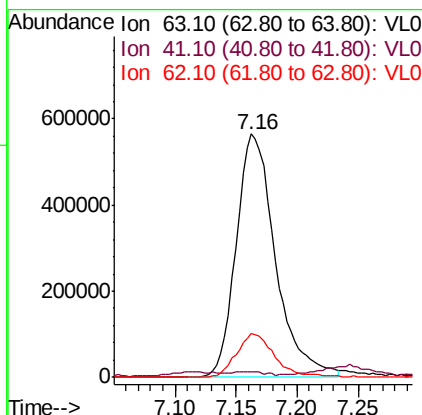
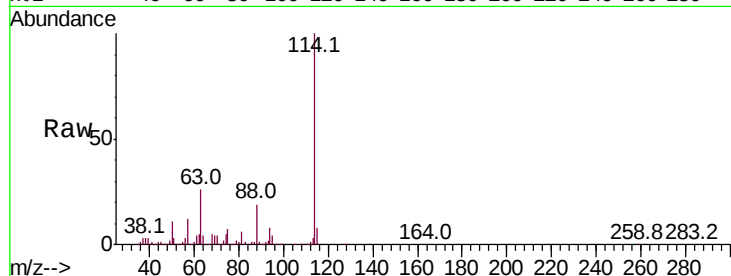


#39
 1,2-Dichloropropane
 Concen: 8.191 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.46 min
 Lab File: VL037249.D
 Acq: 29 Jun 2021 15:03

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 63 Resp: 1253105

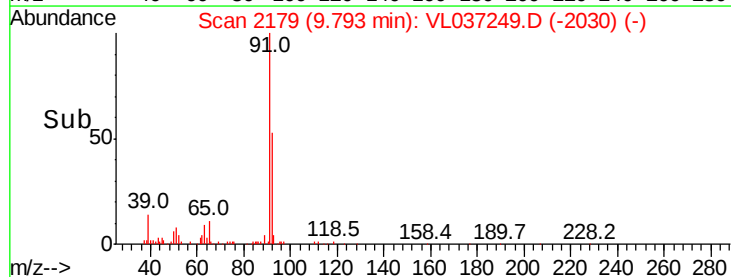
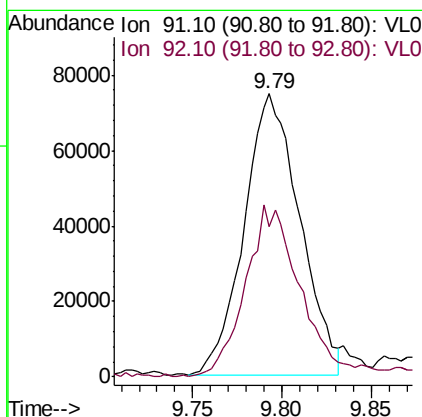
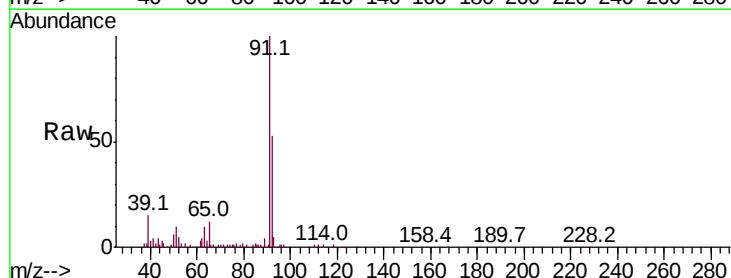
Ion	Ratio	Lower	Upper
63	100		
41	0.5	62.0	93.0#
62	18.1	54.9	82.3#

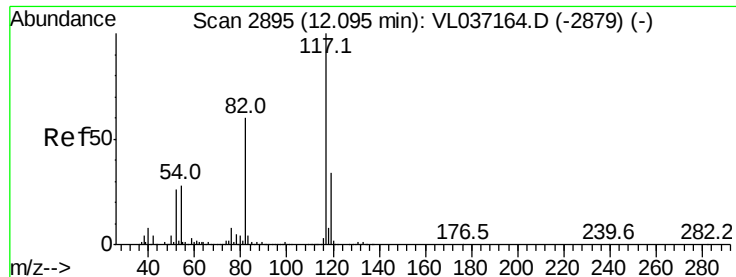


#53
 Toluene
 Concen: 0.331 ppbv
 RT: 9.79 min Scan# 2179
 Delta R.T. -0.02 min
 Lab File: VL037249.D
 Acq: 29 Jun 2021 15:03

Tgt Ion: 91 Resp: 162711

Ion	Ratio	Lower	Upper
91	100		
92	61.2	48.3	72.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.02 min

Lab File: VL037249.D

Acq: 29 Jun 2021 15:03

Instrument :

MSVOA_L

ClientSampleId :

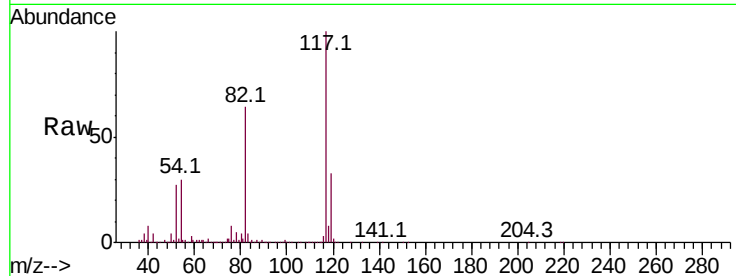
Tot Ion:117 Resp: 4647009

Ion Ratio Lower Upper

117 100

82 65.2 51.7 77.5

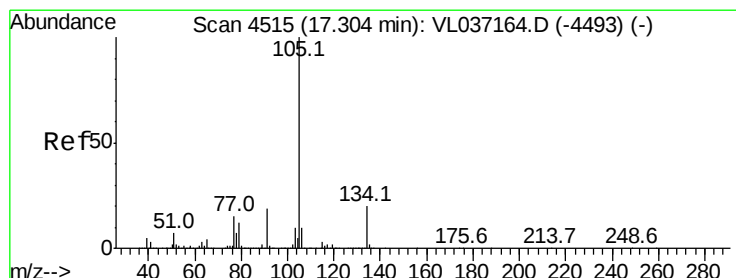
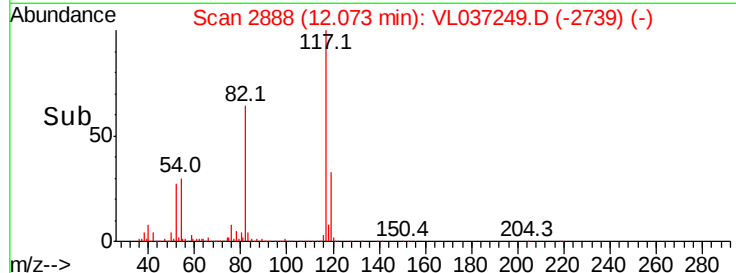
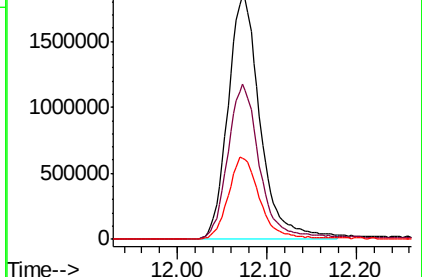
119 33.9 47.6 71.4#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#67

sec-Butylbenzene

Concen: 0.036 ppbv

RT: 17.28 min Scan# 4508

Delta R.T. -0.02 min

Lab File: VL037249.D

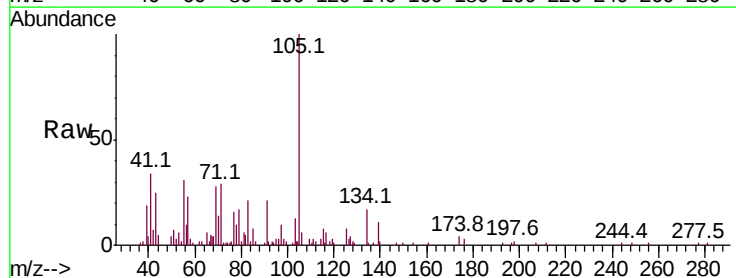
Acq: 29 Jun 2021 15:03

Tgt Ion:105 Resp: 31496

Ion Ratio Lower Upper

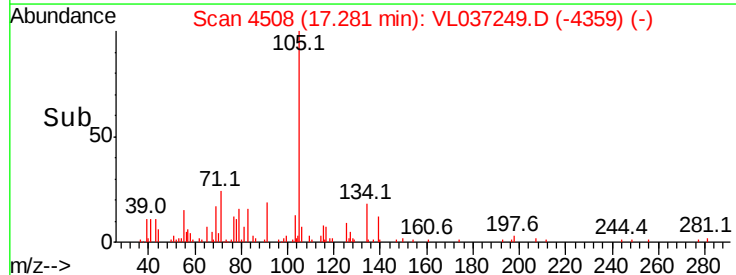
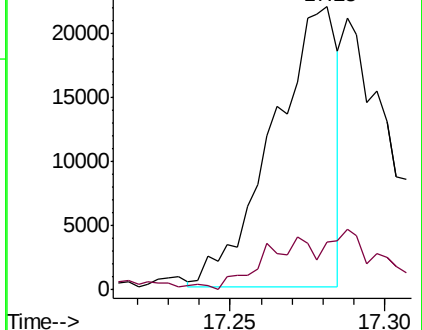
105 100

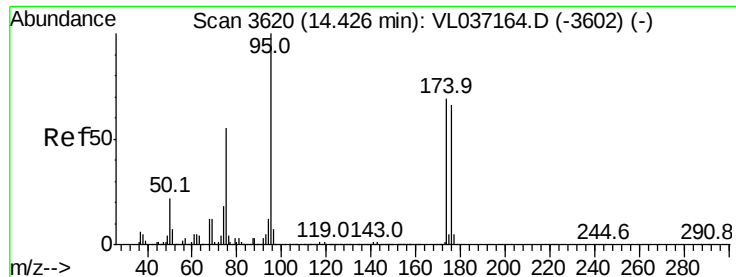
134 0.0 15.8 23.6#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

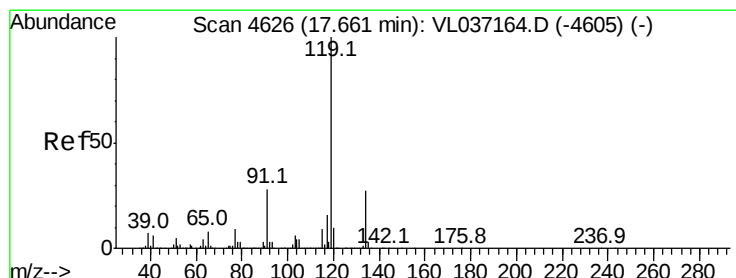
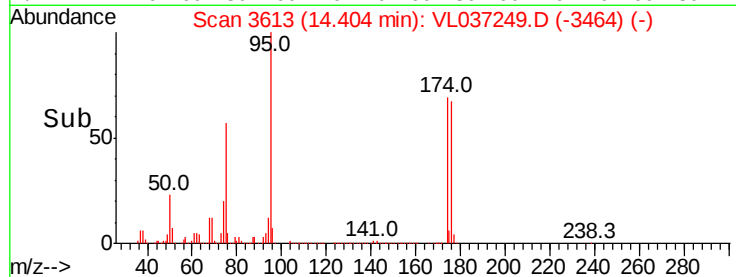
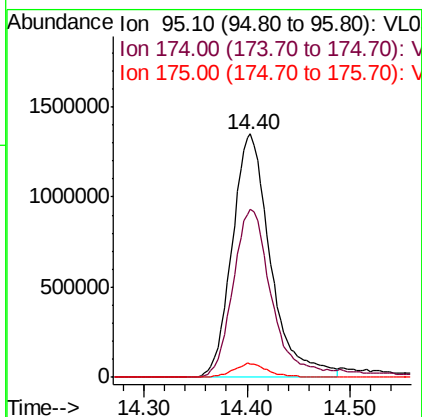
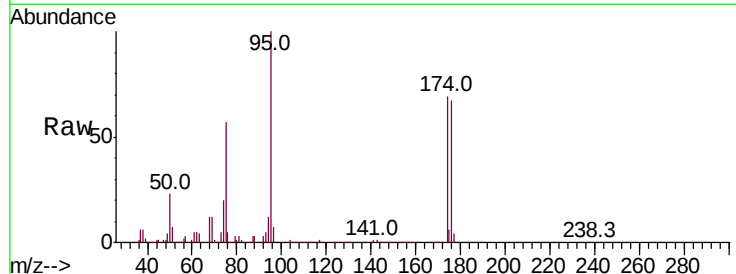




#68
1-Bromo-4-Fluorobenzene
Concen: 9.906 ppbv
RT: 14.40 min Scan# 3613
Delta R.T. -0.02 min
Lab File: VL037249.D
Acq: 29 Jun 2021 15:03

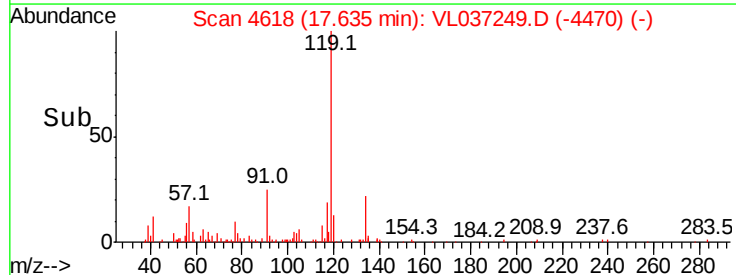
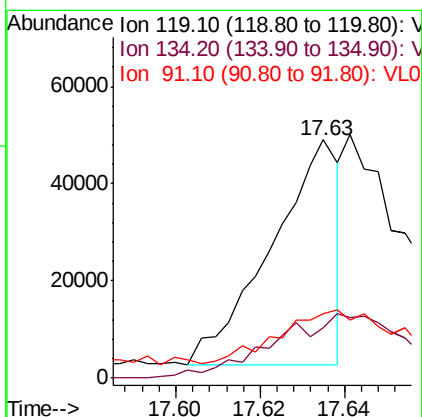
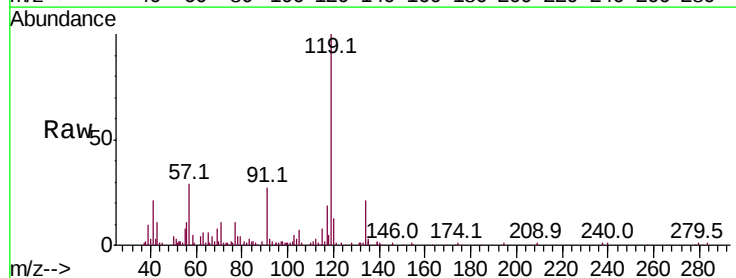
Instrument :
MSVOA_L
ClientSampleId :

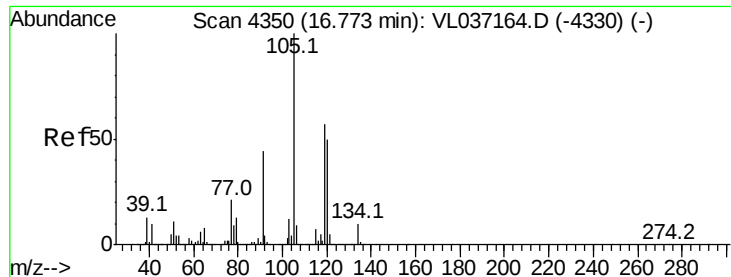
Tot Ion: 95 Resp: 3488175
Ion Ratio Lower Upper
95 100
174 74.1 57.0 85.4
175 5.6 4.4 6.6



#69
p-Isopropyltoluene
Concen: 0.071 ppbv
RT: 17.63 min Scan# 4618
Delta R.T. -0.03 min
Lab File: VL037249.D
Acq: 29 Jun 2021 15:03

Tgt Ion: 119 Resp: 51837
Ion Ratio Lower Upper
119 100
134 0.0 20.9 31.3#
91 0.0 22.6 34.0#





#74

1,2,4-Trimethylbenzene

Concen: 0.159 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. -0.02 min

Lab File: VL037249.D

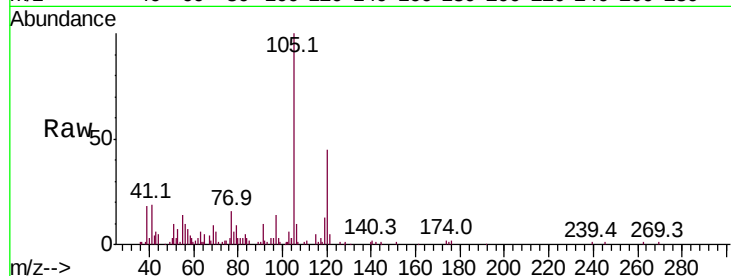
Acq: 29 Jun 2021 15:03

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	105	Resp:	93061
Ion	Ratio	Lower	Upper
105	100		
120	44.1	39.8	59.8
91	8.4	37.0	55.4#
77	13.9	17.0	25.4#



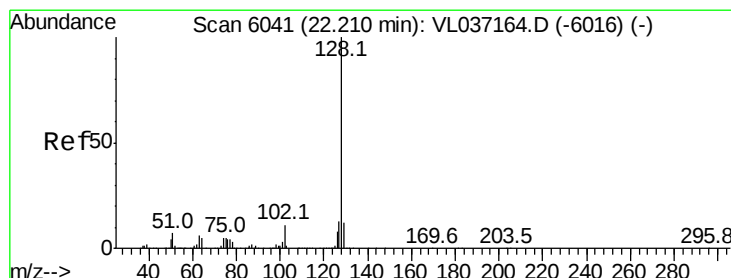
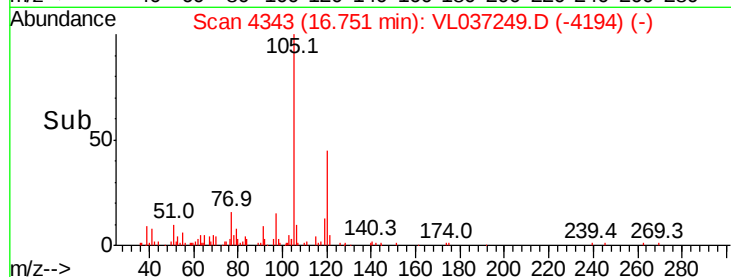
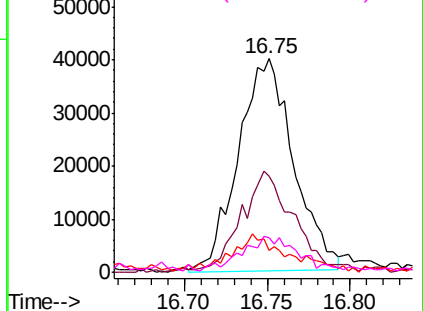
Abundance

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



#79

Naphthalene

Concen: 0.081 ppbv

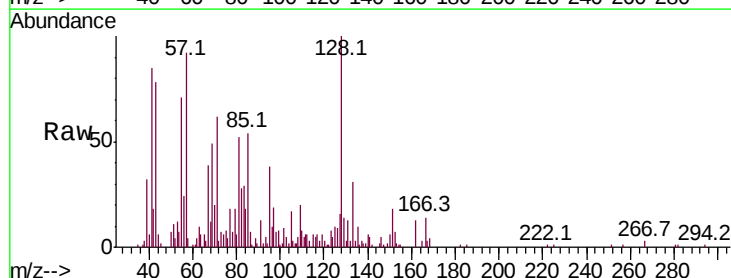
RT: 22.18 min Scan# 6030

Delta R.T. -0.04 min

Lab File: VL037249.D

Acq: 29 Jun 2021 15:03

Tgt Ion:	128	Resp:	39367
Ion	Ratio	Lower	Upper
128	100		
127	14.6	10.7	16.1
129	13.2	9.3	13.9

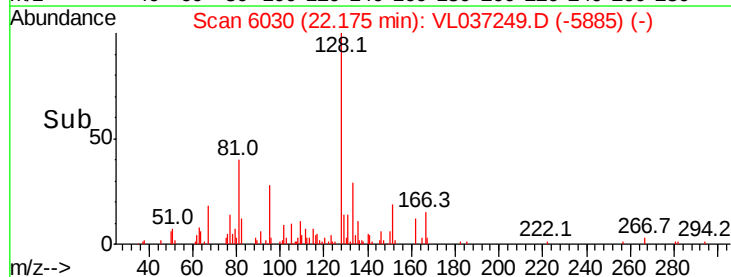
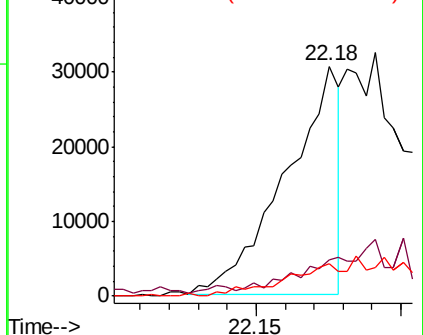


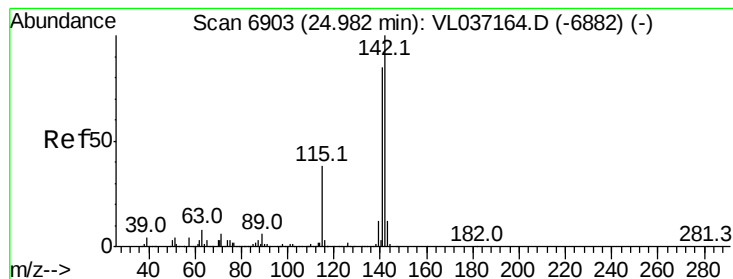
Abundance

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: 0.779 ppbv

RT: 24.96 min Scan# 6897

Delta R.T. -0.02 min

Lab File: VL037249.D

Acq: 29 Jun 2021 15:03

Instrument :

MSVOA_L

ClientSampleId :

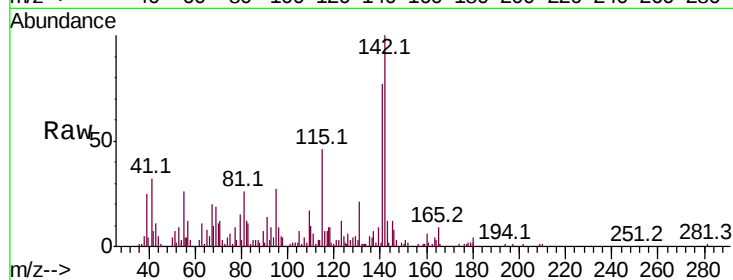
Tot Ion:142 Resp: 99450

Ion Ratio Lower Upper

142 100

141 77.8 63.7 95.5

115 67.6 30.6 45.8#



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

