

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081921\
 Data File : VL037501.D
 Acq On : 19 Aug 2021 16:37
 Operator : SY/AP
 Sample : M3480-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 20 00:21:02 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1436542	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.18	114	4136783	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.09	117	3546399	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2473530	9.82	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	26668	0.116 ppbv	91
3) Chlorodifluoromethane	2.99	51	1649489	5.996 ppbv #	85
4) Chloromethane	3.14	50	70836	0.721 ppbv	91
9) Propene	3.02	41	64502	0.655 ppbv	85
10) Heptane	8.13	43	52881	0.233 ppbv	97
11) Trichlorofluoromethane	3.95	101	20460	0.095 ppbv	99
13) Ethanol	3.61	45	6282770	655.999 ppbv	99
15) Acetone	3.85	43	5778926	39.528 ppbv	96
16) 1,3-Butadiene	3.33	39	6661	0.071 ppbv #	10
17) tert-Butyl alcohol	4.31	59	420699	3.150 ppbv	100
19) Isopropyl Alcohol	3.98	45	4571578	54.581 ppbv	100
20) Methylene Chloride	4.35	84	351820	4.806 ppbv	96
21) Allyl Chloride	4.31	41	40460	0.341 ppbv #	24
23) Vinyl Acetate	5.07	43	43773	0.203 ppbv #	61
25) Ethyl Acetate	5.69	43	370699	0.999 ppbv #	87
26) Hexane	5.69	57	385043	2.122 ppbv #	54
27) Carbon Disulfide	4.56	76	17117	0.106 ppbv #	10
29) Chloroform	5.76	83	52540	0.204 ppbv	90
30) Cyclohexane	7.14	84	4858	0.032 ppbv #	1
34) 2-Butanone	5.25	43	840733	4.977 ppbv #	90
36) Benzene	6.90	78	2842200	8.173 ppbv	98
38) Trichloroethene	7.84	130	67459	0.473 ppbv #	88
39) 1,2-Dichloropropane	7.18	63	959541	7.181 ppbv #	27
40) 1,4-Dioxane	7.84	88	5896	0.180 ppbv #	100
41) Tetrahydrofuran	6.05	42	14101	0.173 ppbv #	36
43) Methyl Methacrylate	8.02	69	11707	0.097 ppbv #	77
44) 2,2,4-Trimethylpentane	7.88	57	41925	0.072 ppbv #	74
50) 4-Methyl-2-Pentanone	8.75	43	50262	0.228 ppbv #	16
51) 2-Hexanone	10.14	43	159158	1.570 ppbv #	87
52) Tetrachloroethene	11.23	164	11371	0.080 ppbv #	81
53) Toluene	9.81	91	500177	1.260 ppbv	98
58) Ethyl Benzene	12.71	91	403542	0.820 ppbv	93
59) m/p-Xylene	12.97	91	1725818	4.045 ppbv	92
60) o-Xylene	13.69	91	487474	1.224 ppbv	98
61) Styrene	13.53	104	31678	0.153 ppbv #	40
62) Isopropylbenzene	14.67	105	1132021	2.014 ppbv	96
64) n-propylbenzene	15.56	120	6182	0.043 ppbv #	1
65) tert-Butylbenzene	16.75	119	18392	0.036 ppbv #	24
66) Benzyl Chloride	17.01	91	2388	0.103 ppbv #	63
69) p-Isopropyltoluene	17.66	119	23221	0.040 ppbv #	1
70) n-Butylbenzene	18.56	91	22146	0.040 ppbv #	1

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Instrument :
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ClientSampleId :

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration

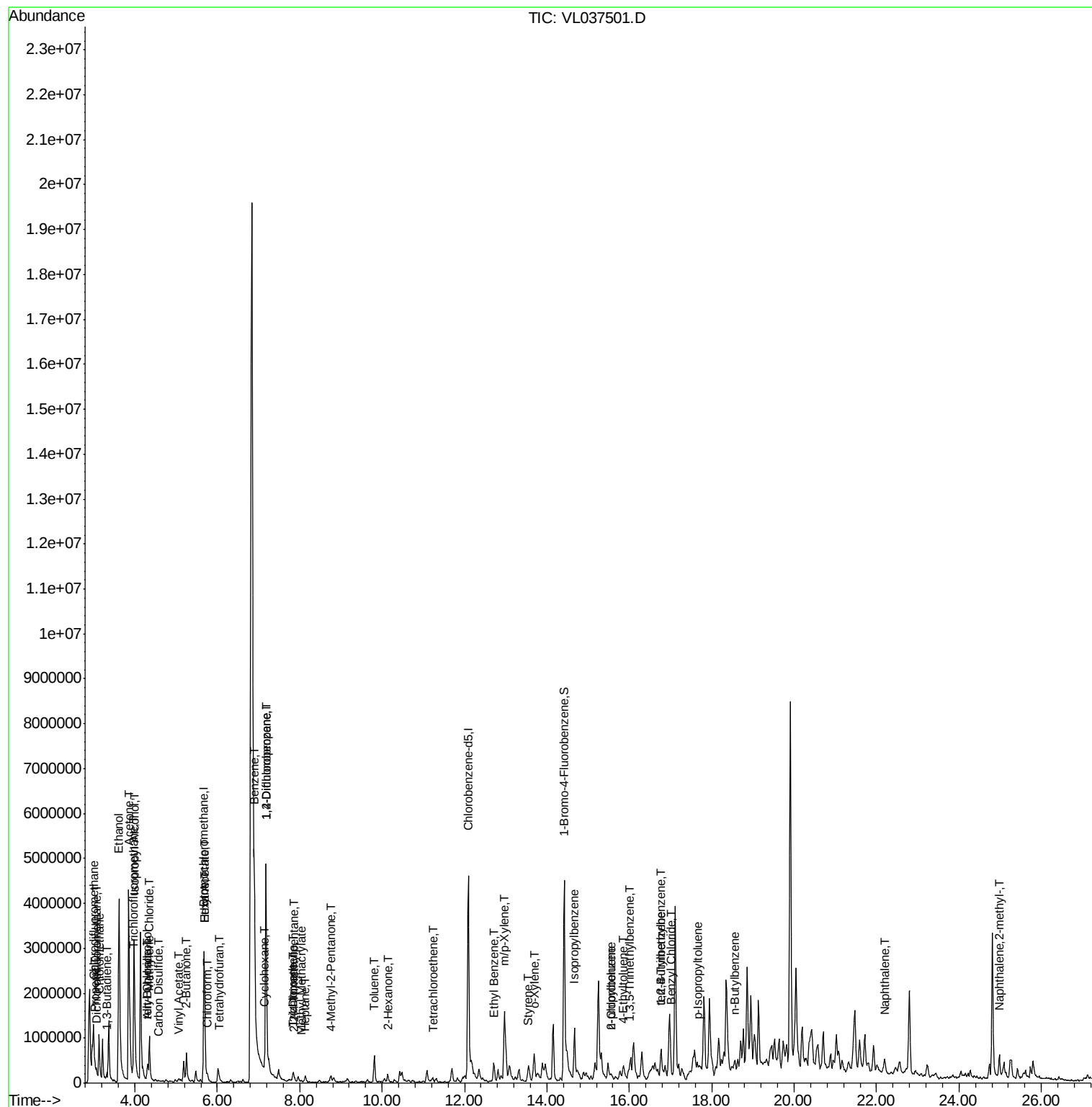
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2-Chlorotoluene	15.57	91	15615	0.038	ppbv	82
72) 4-Ethyltoluene	15.84	105	28454	0.060	ppbv #	55
73) 1,3,5-Trimethylbenzene	16.00	105	73902	0.168	ppbv	100
74) 1,2,4-Trimethylbenzene	16.76	105	249141	0.532	ppbv #	67
79) Naphthalene	22.19	128	233205	0.744	ppbv #	93
80) Naphthalene,2-methyl-	24.97	142	23661	0.271	ppbv #	78

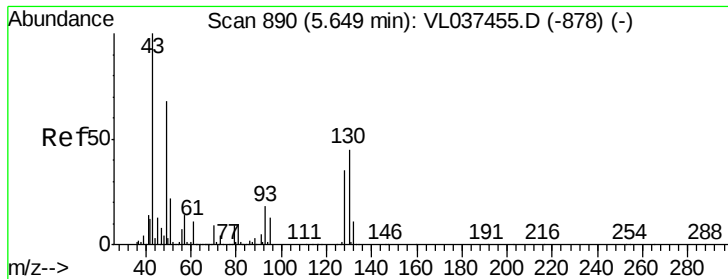
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.03 min

Lab File: VL037501.D

Acq: 19 Aug 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :

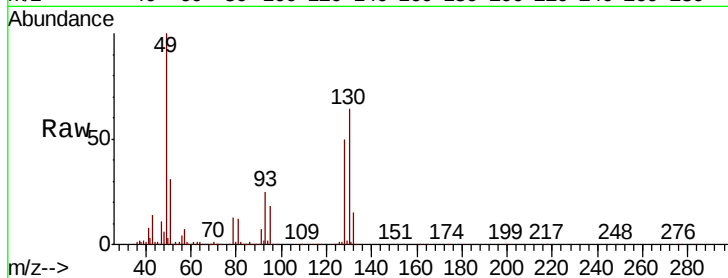
Tot Ion: 49 Resp: 1436542

Ion Ratio Lower Upper

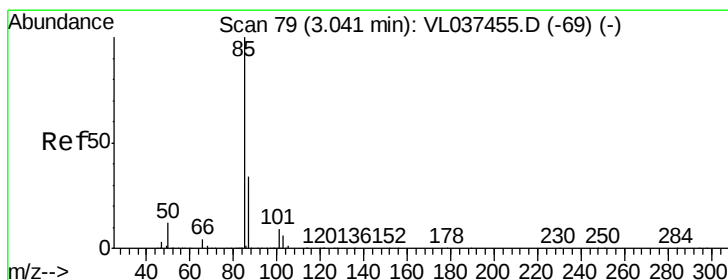
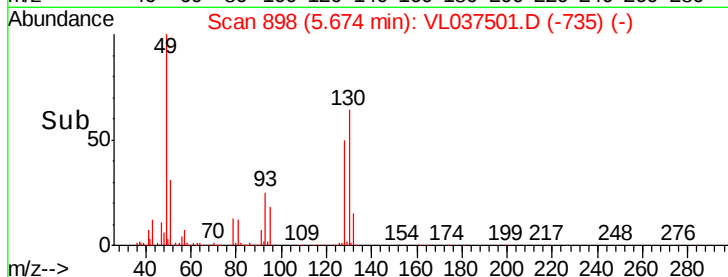
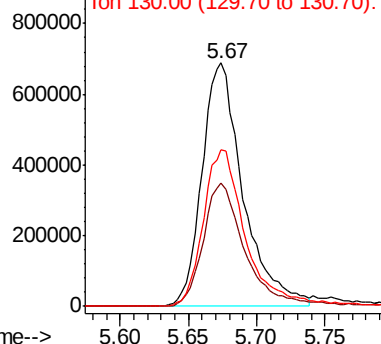
49 100

128 52.4 27.5 82.4

130 68.1 34.0 101.8



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: 0.116 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.02 min

Lab File: VL037501.D

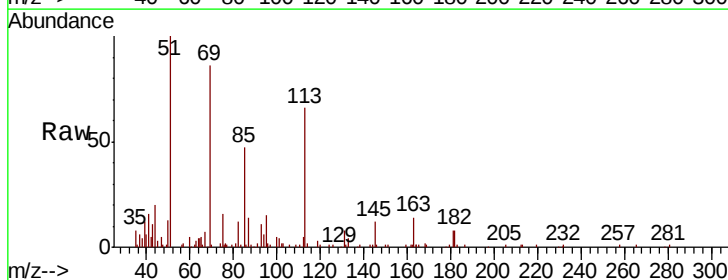
Acq: 19 Aug 2021 16:37

Tgt Ion: 85 Resp: 26668

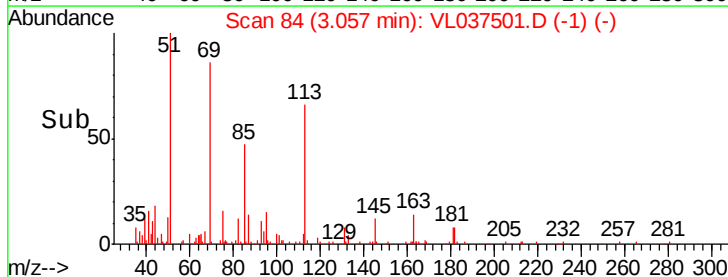
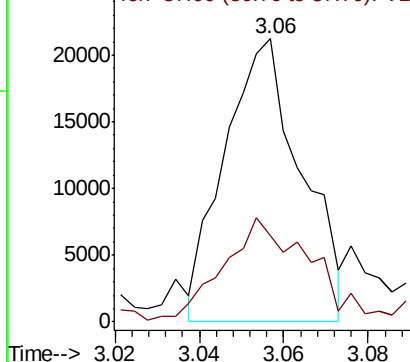
Ion Ratio Lower Upper

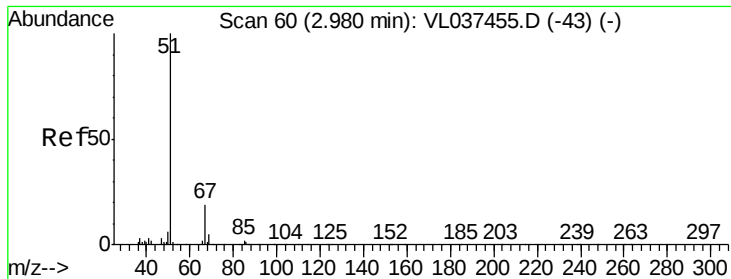
85 100

87 29.4 27.6 41.4



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

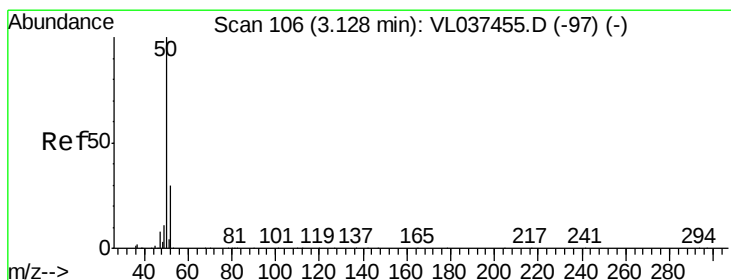
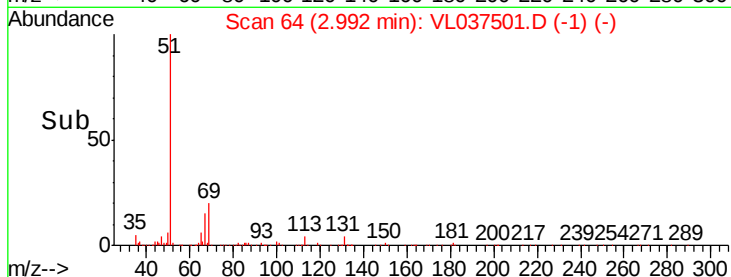
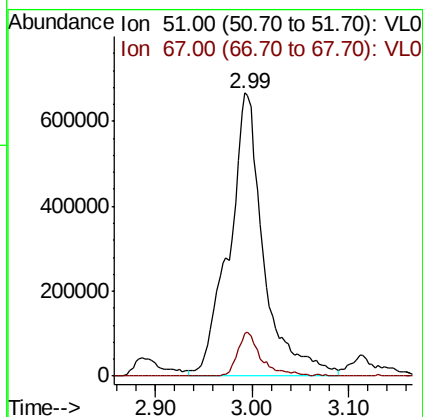
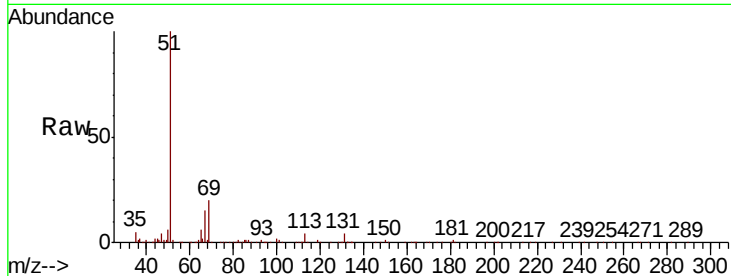




#3
Chlorodifluoromethane
Concen: 5.996 ppbv
RT: 2.99 min Scan# 64
Delta R.T. 0.01 min
Lab File: VL037501.D
Acq: 19 Aug 2021 16:37

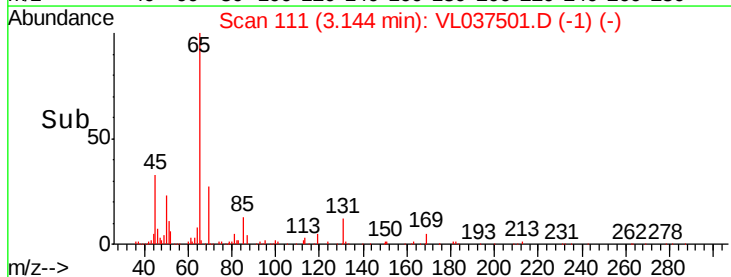
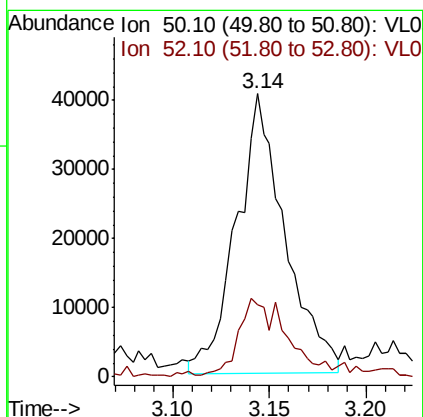
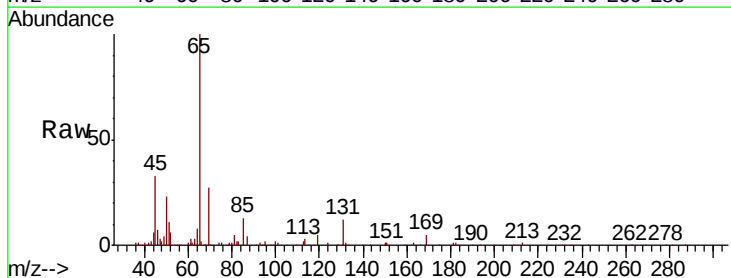
Instrument :
MSVOA_L
ClientSampleId :

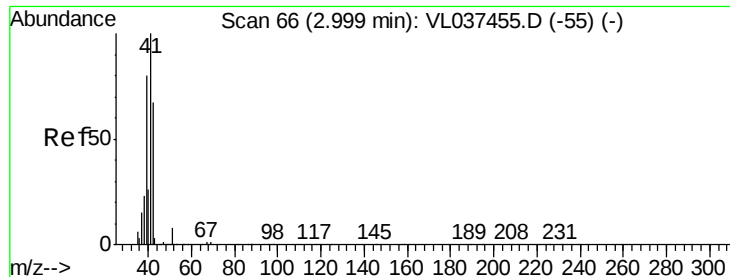
Tot Ion: 51 Resp: 1649489
Ion Ratio Lower Upper
51 100
67 11.2 14.2 21.2#



#4
Chloromethane
Concen: 0.721 ppbv
RT: 3.14 min Scan# 111
Delta R.T. 0.02 min
Lab File: VL037501.D
Acq: 19 Aug 2021 16:37

Tgt Ion: 50 Resp: 70836
Ion Ratio Lower Upper
50 100
52 25.1 24.0 36.0





#9

Propene

Concen: 0.655 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.03 min

Lab File: VL037501.D

Acq: 19 Aug 2021 16:37

Instrument :

MSVOA_L

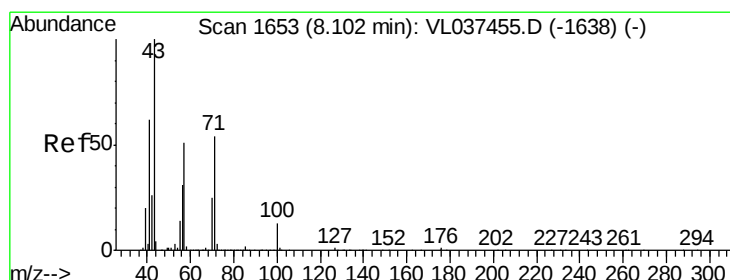
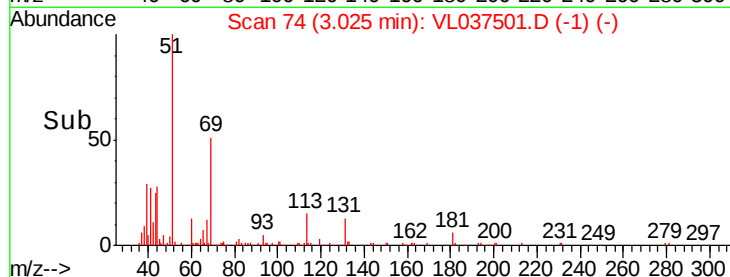
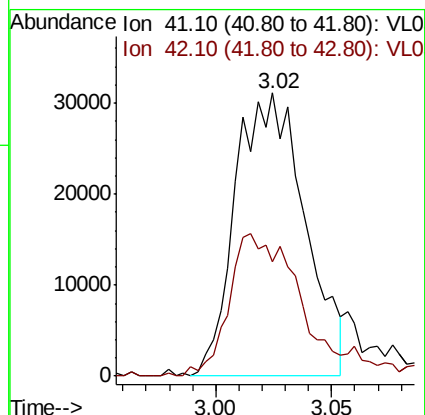
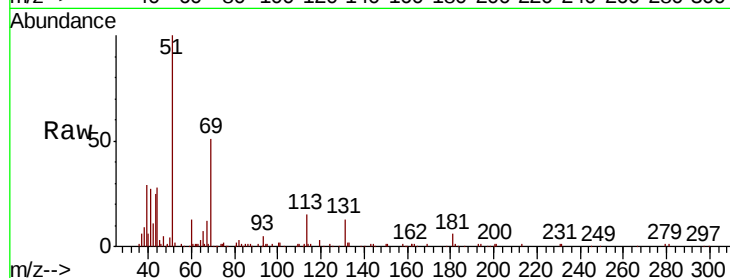
ClientSampleId :

Tot Ion: 41 Resp: 64502

Ion Ratio Lower Upper

41 100

42 55.3 53.7 80.5



#10

Heptane

Concen: 0.233 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.03 min

Lab File: VL037501.D

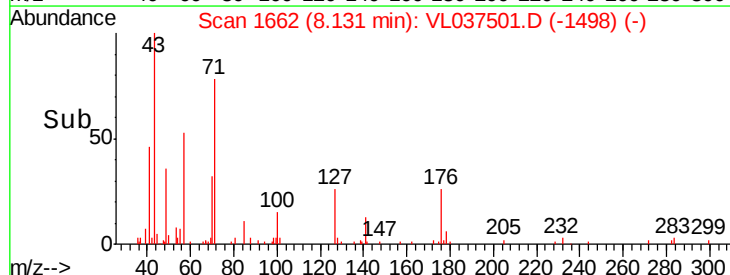
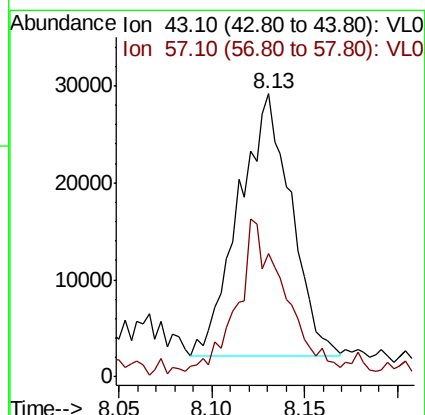
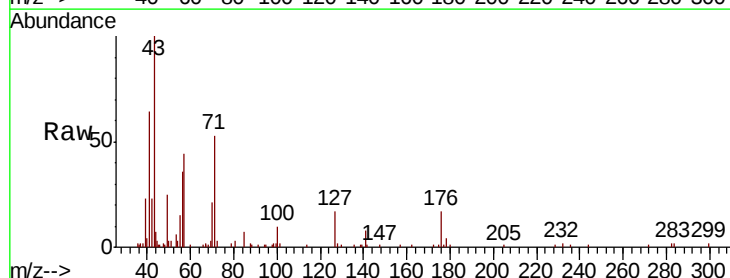
Acq: 19 Aug 2021 16:37

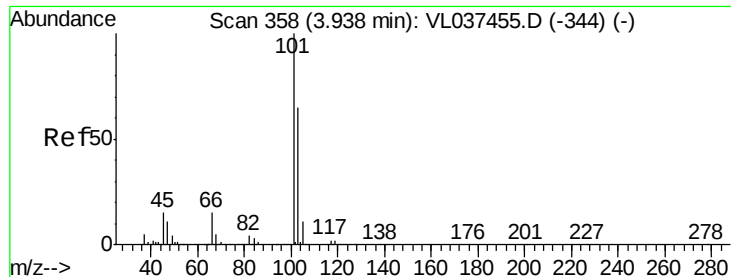
Tgt Ion: 43 Resp: 52881

Ion Ratio Lower Upper

43 100

57 53.7 41.0 61.6





#11

Trichlorofluoromethane

Concen: 0.095 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.02 min

Lab File: VL037501.D

Acq: 19 Aug 2021 16:37

Instrument :

MSVOA_L

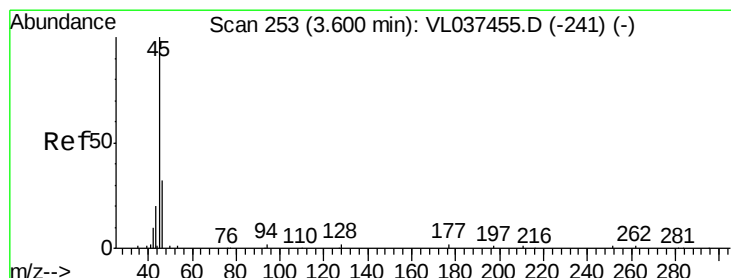
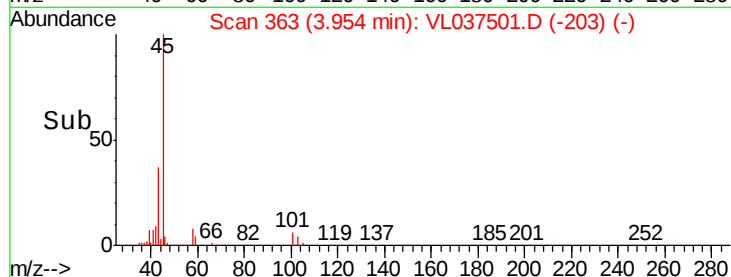
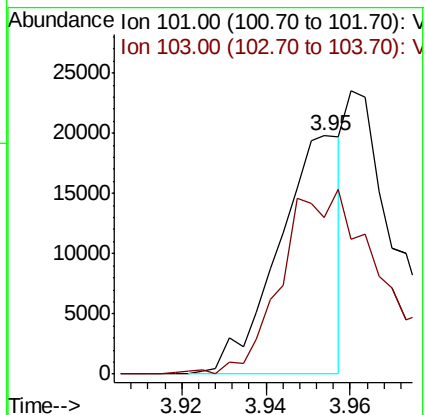
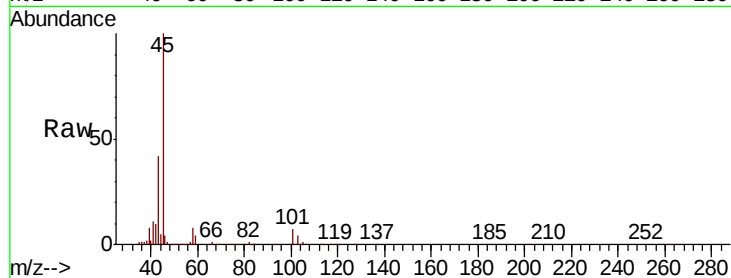
ClientSampleId :

Tot Ion:101 Resp: 20460

Ion Ratio Lower Upper

101 100

103 64.3 51.8 77.6



#13

Ethanol

Concen: 655.999 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.01 min

Lab File: VL037501.D

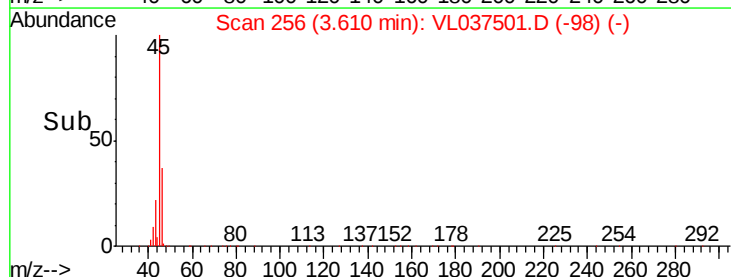
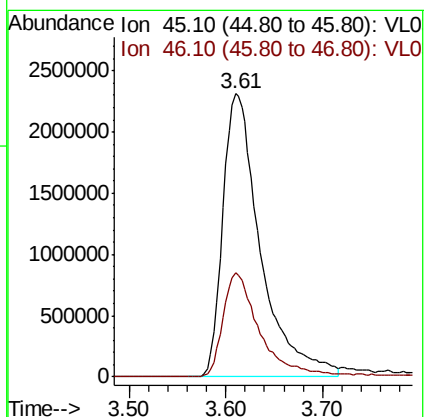
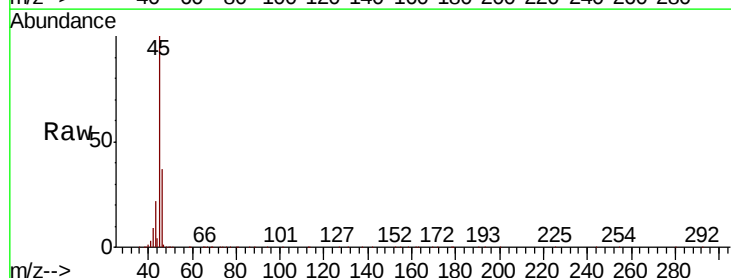
Acq: 19 Aug 2021 16:37

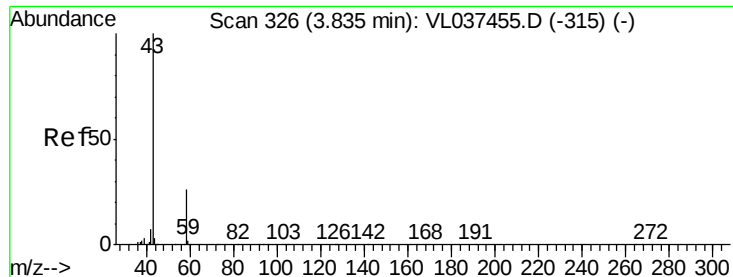
Tgt Ion: 45 Resp: 6282770

Ion Ratio Lower Upper

45 100

46 35.9 14.1 56.5

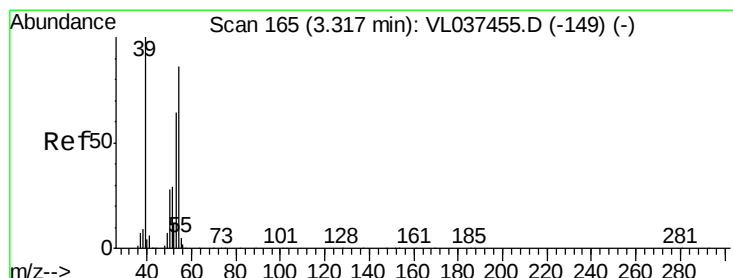
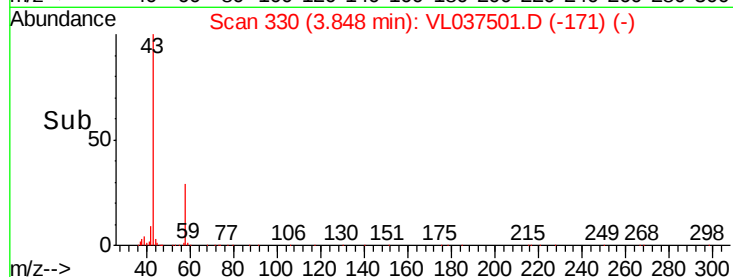
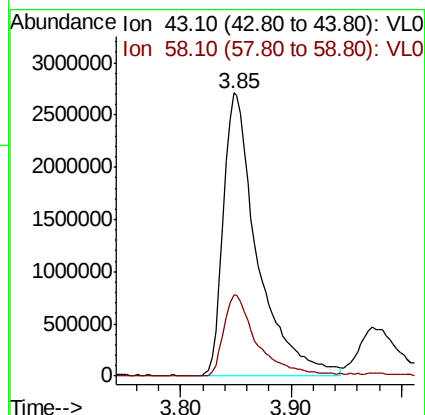
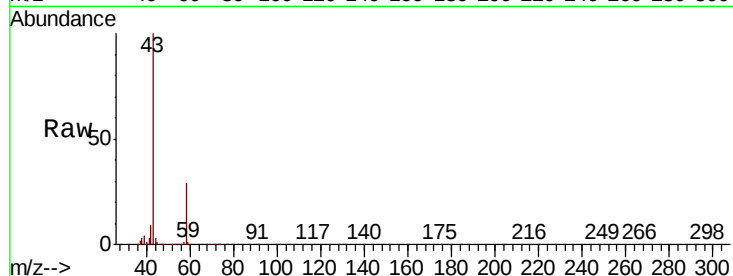




#15
Acetone
Concen: 39.528 ppbv
RT: 3.85 min Scan# 330
Delta R.T. 0.01 min
Lab File: VL037501.D
Acq: 19 Aug 2021 16:37

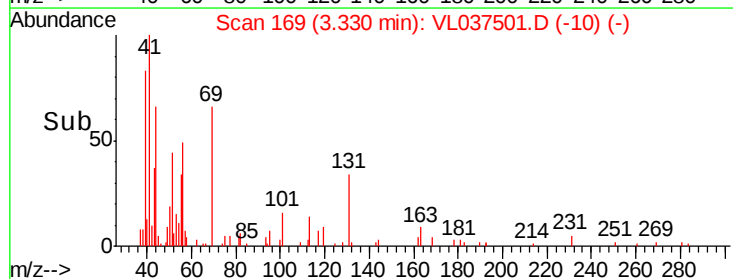
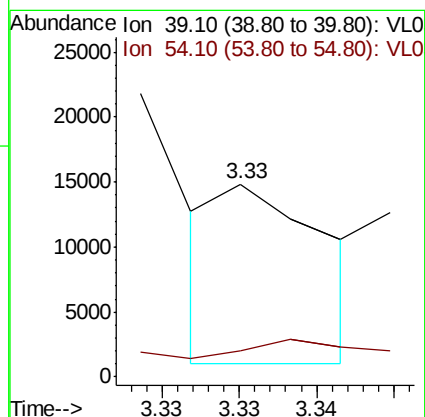
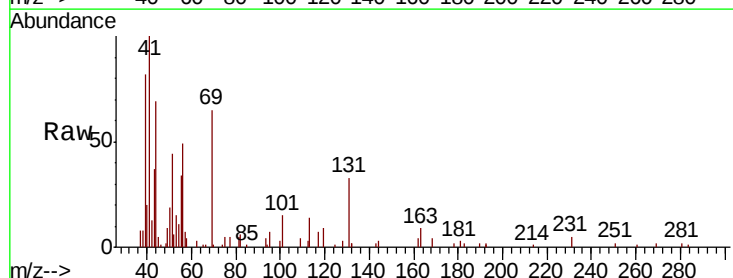
Instrument :
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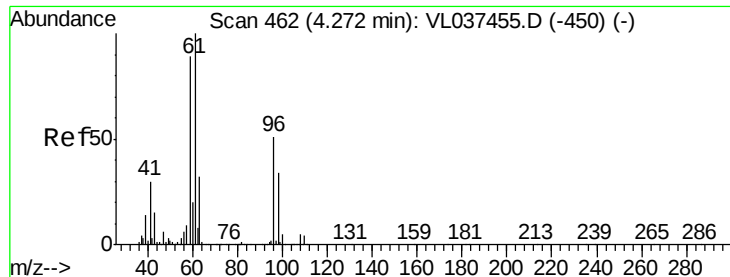
Tot Ion: 43 Resp: 5778926
Ion Ratio Lower Upper
43 100
58 28.8 24.8 37.2



#16
1,3-Butadiene
Concen: 0.071 ppbv
RT: 3.33 min Scan# 169
Delta R.T. 0.01 min
Lab File: VL037501.D
Acq: 19 Aug 2021 16:37

Tgt Ion: 39 Resp: 6661
Ion Ratio Lower Upper
39 100
54 0.0 63.7 95.5#



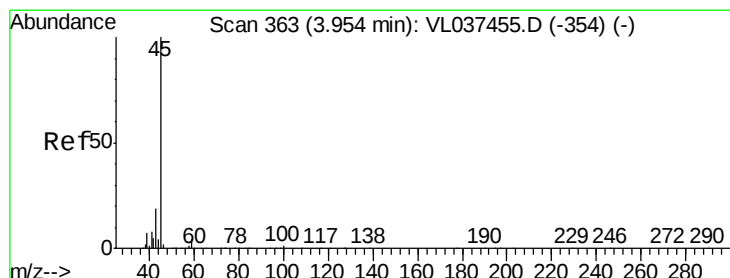
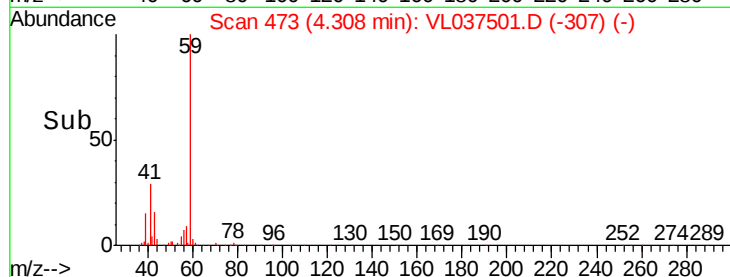
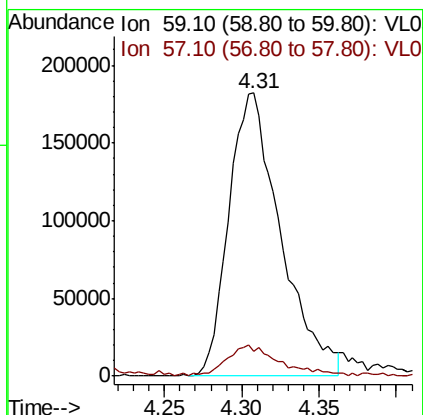
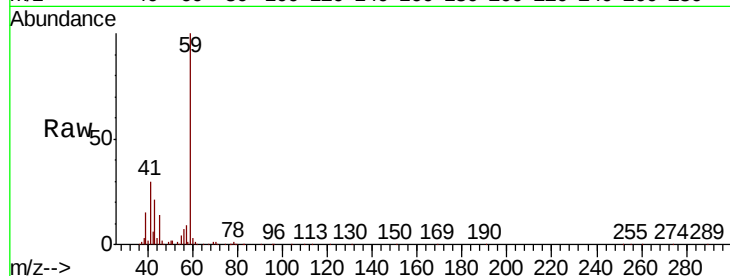


#17

tert-Butyl alcohol
Concen: 3.150 ppbv
RT: 4.31 min Scan# 473
Delta R.T. 0.04 min
Lab File: VL037501.D
Acq: 19 Aug 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :

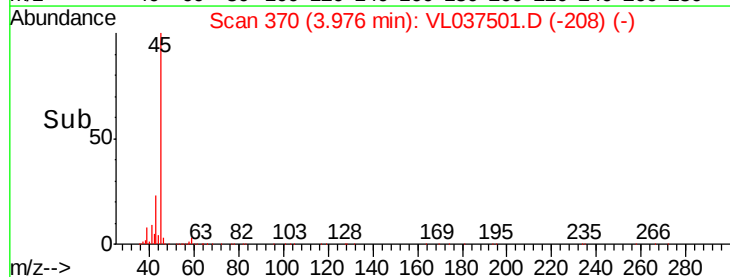
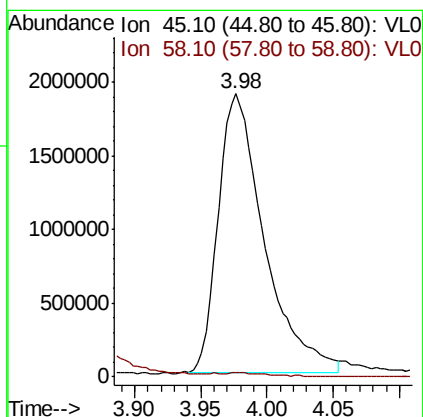
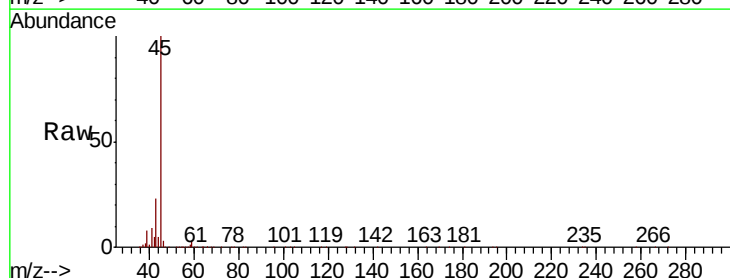
Tot Ion: 59 Resp: 420699
Ion Ratio Lower Upper
59 100
57 10.3 8.3 12.5

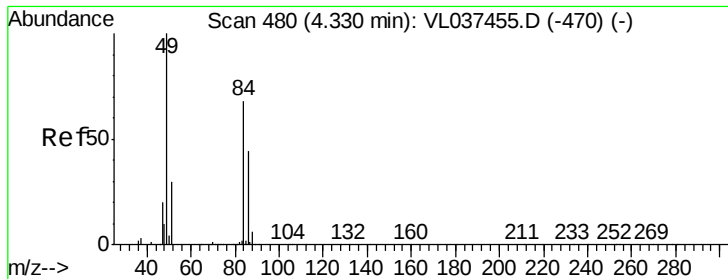


#19

Isopropyl Alcohol
Concen: 54.581 ppbv
RT: 3.98 min Scan# 370
Delta R.T. 0.02 min
Lab File: VL037501.D
Acq: 19 Aug 2021 16:37

Tgt Ion: 45 Resp: 4571578
Ion Ratio Lower Upper
45 100
58 1.9 1.4 2.2

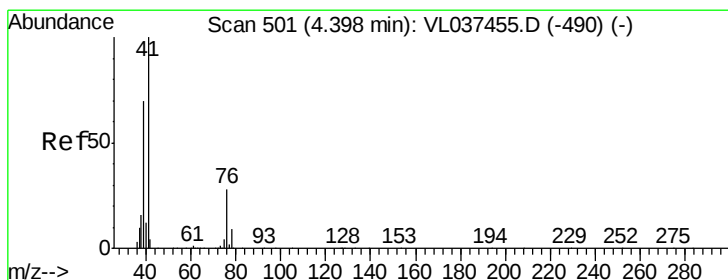
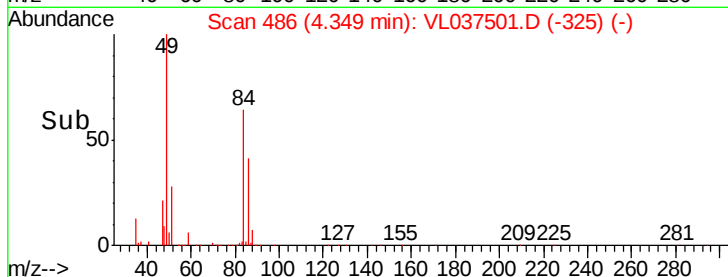
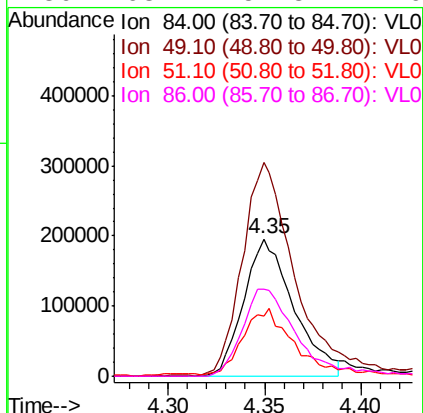
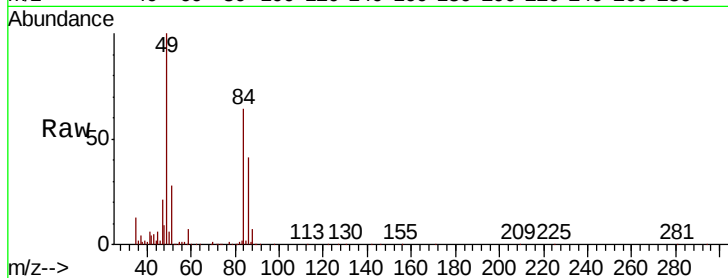




#20
Methylene Chloride
Concen: 4.806 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.02 min
Lab File: VL037501.D
Acq: 19 Aug 2021 16:37

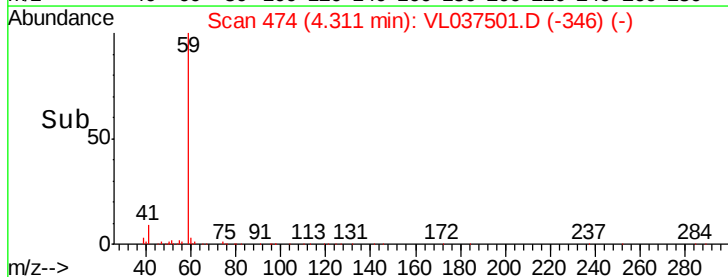
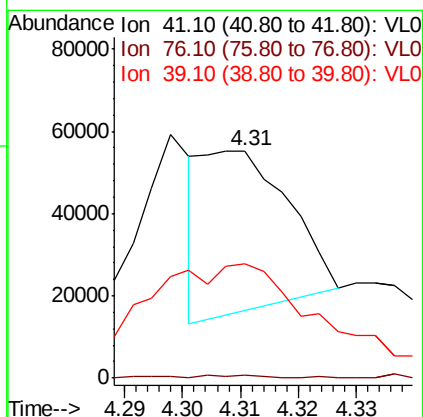
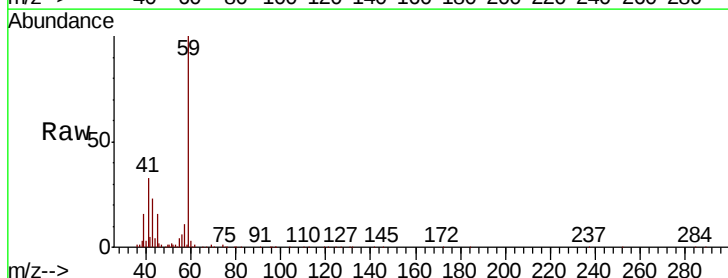
Instrument :
MSVOA_L
ClientSampleId :

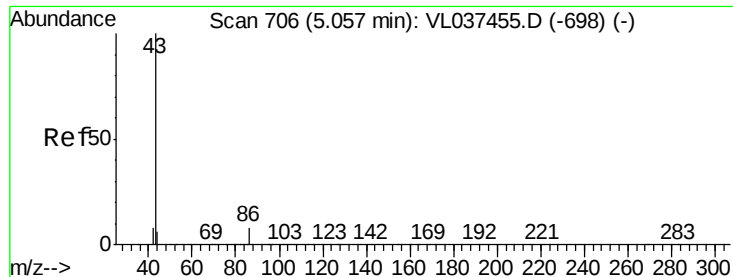
Tot Ion:	84	Resp:	351820
Ion	Ratio	Lower	Upper
84	100		
49	154.5	118.2	177.2
51	42.2	36.6	55.0
86	63.4	51.8	77.6



#21
Allyl Chloride
Concen: 0.341 ppbv
RT: 4.31 min Scan# 474
Delta R.T. -0.09 min
Lab File: VL037501.D
Acq: 19 Aug 2021 16:37

Tgt Ion:	41	Resp:	40460
Ion	Ratio	Lower	Upper
41	100		
76	2.7	21.8	32.6#
39	142.8	56.8	85.2#

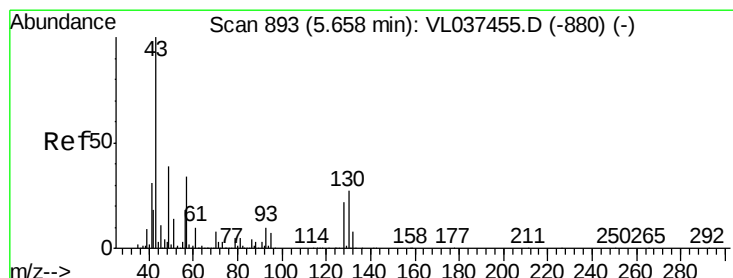
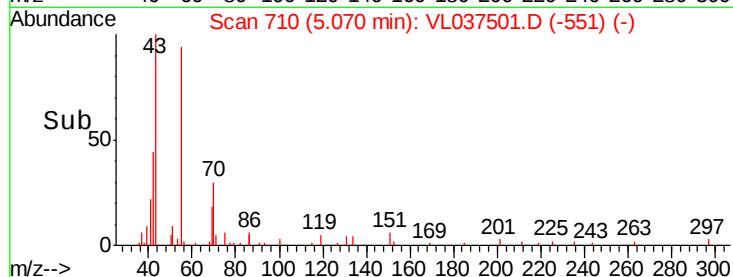
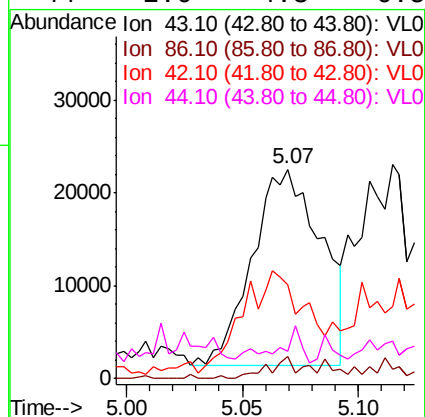
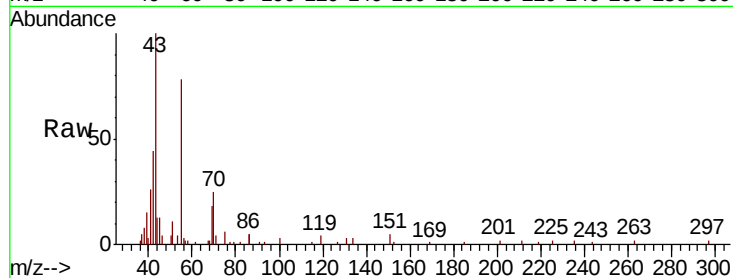




#23
 Vinyl Acetate
 Concen: 0.203 ppbv
 RT: 5.07 min Scan# 710
 Delta R.T. 0.01 min
 Lab File: VL037501.D
 Acq: 19 Aug 2021 16:37

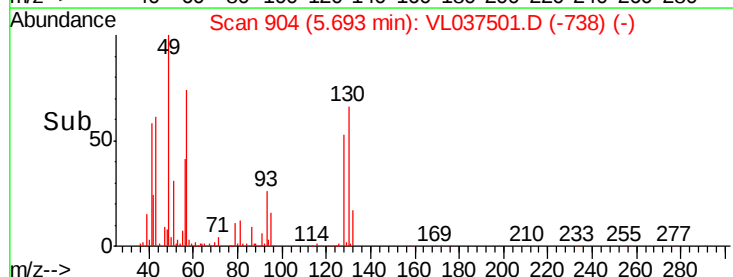
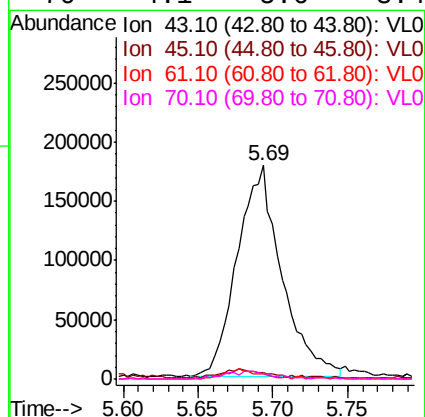
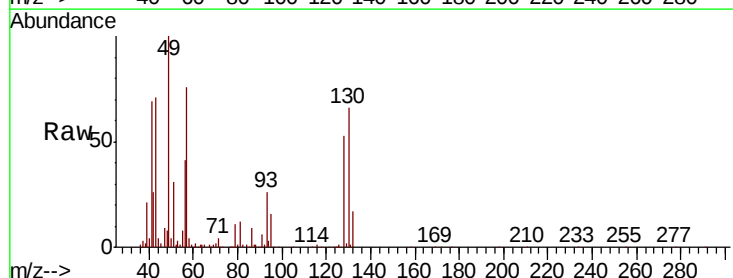
Instrument :
 MSVOA_L
 ClientSampleId :

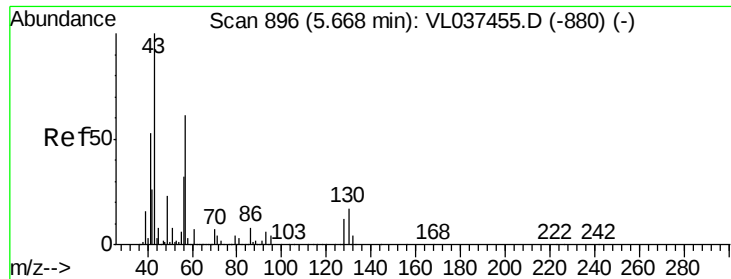
Tot Ion:	43	Resp:	43773
Ion	Ratio	Lower	Upper
43	100		
86	9.0	5.7	8.5#
42	39.0	7.4	11.2#
44	2.0	4.3	6.5#



#25
 Ethyl Acetate
 Concen: 0.999 ppbv
 RT: 5.69 min Scan# 904
 Delta R.T. 0.04 min
 Lab File: VL037501.D
 Acq: 19 Aug 2021 16:37

Tgt Ion:	43	Resp:	370699
Ion	Ratio	Lower	Upper
43	100		
45	4.9	8.0	12.0#
61	3.8	8.0	12.0#
70	4.1	5.6	8.4#

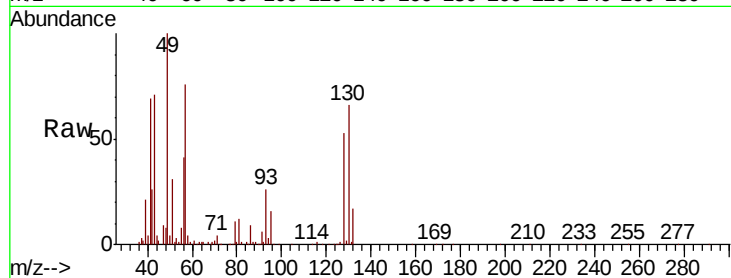




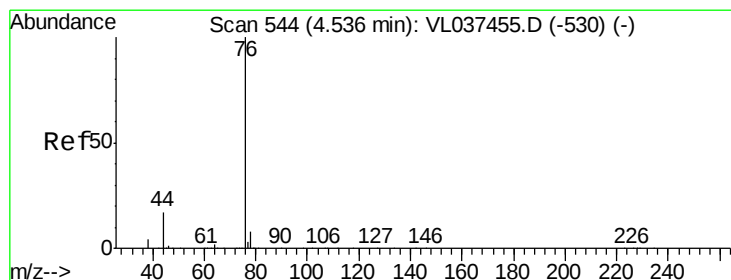
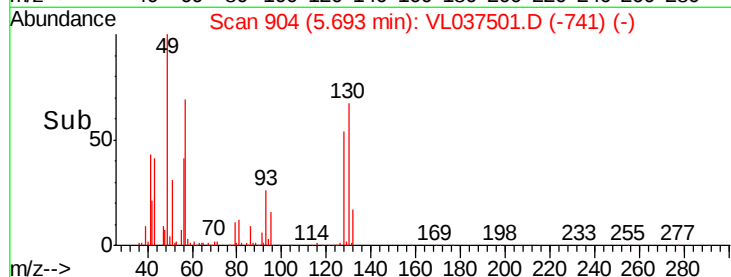
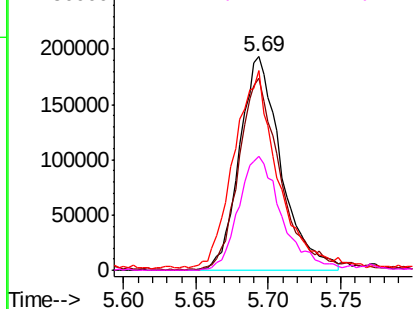
#26
Hexane
Concen: 2.122 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.03 min
Lab File: VL037501.D
Acq: 19 Aug 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	57	Resp:	385043
Ion	Ratio	Lower	Upper
57	100		
41	93.0	72.3	108.5
43	96.4	172.3	258.5#
56	55.3	42.8	64.2

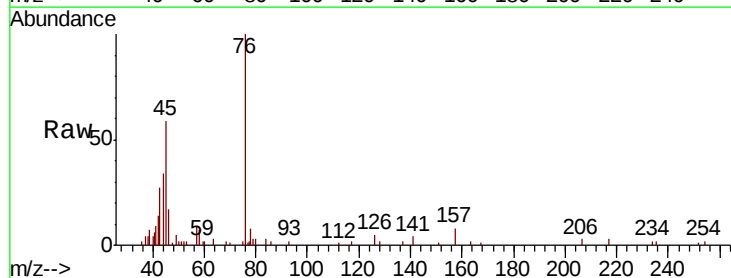


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

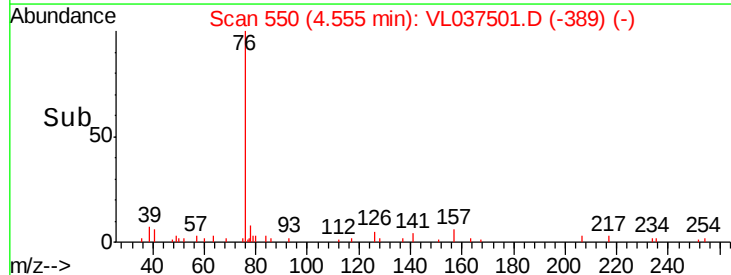
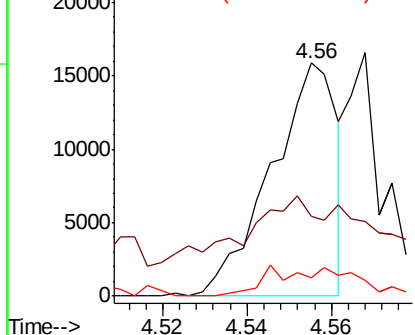


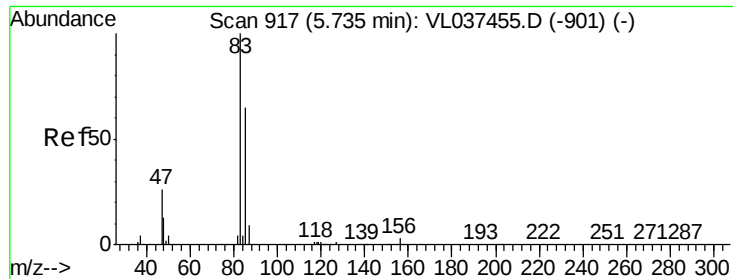
#27
Carbon Disulfide
Concen: 0.106 ppbv
RT: 4.56 min Scan# 550
Delta R.T. 0.02 min
Lab File: VL037501.D
Acq: 19 Aug 2021 16:37

Tgt Ion:	76	Resp:	17117
Ion	Ratio	Lower	Upper
76	100		
44	74.9	13.9	20.9#
78	16.3	7.9	11.9#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 0.204 ppbv

RT: 5.76 min Scan# 925

Delta R.T. 0.03 min

Lab File: VL037501.D

Acq: 19 Aug 2021 16:37

Instrument :

MSVOA_L

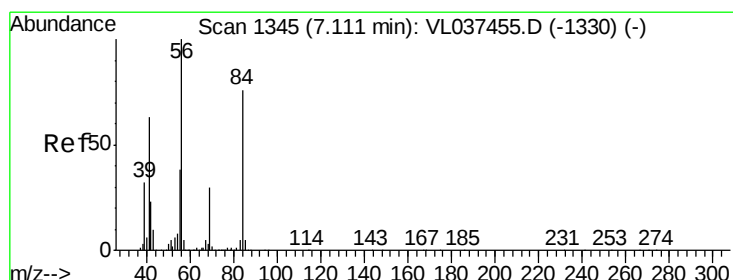
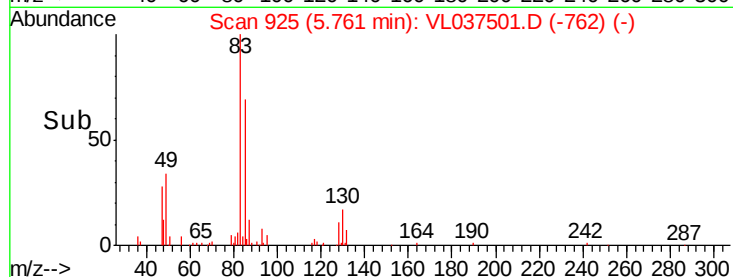
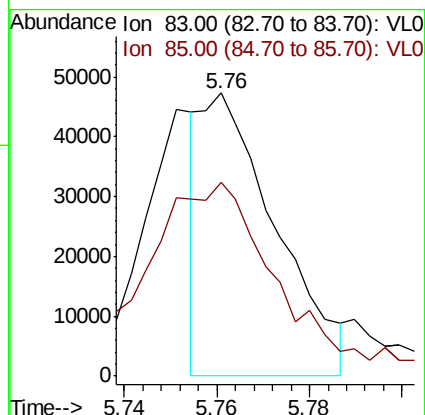
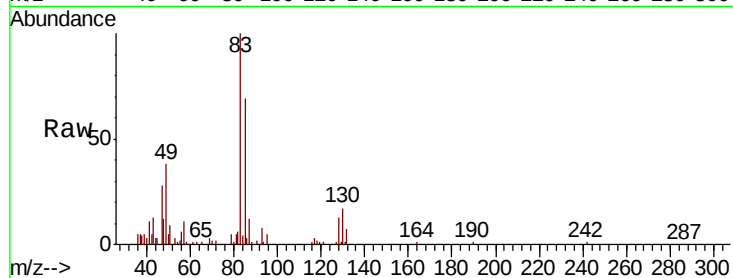
ClientSampleId :

Tot Ion: 83 Resp: 52540

Ion Ratio Lower Upper

83 100

85 73.6 52.3 78.5



#30

Cyclohexane

Concen: 0.032 ppbv

RT: 7.14 min Scan# 1355

Delta R.T. 0.03 min

Lab File: VL037501.D

Acq: 19 Aug 2021 16:37

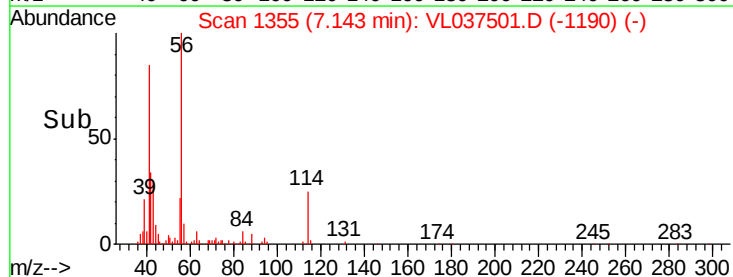
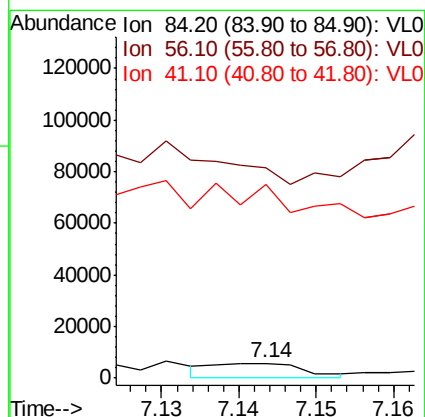
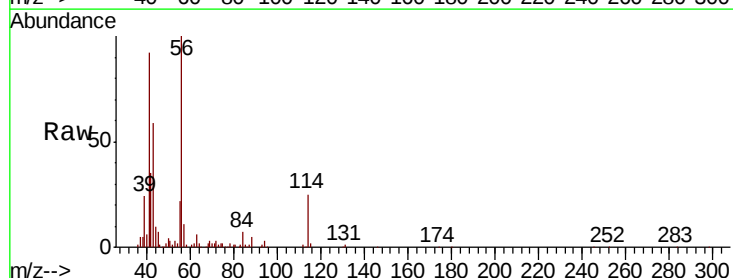
Tgt Ion: 84 Resp: 4858

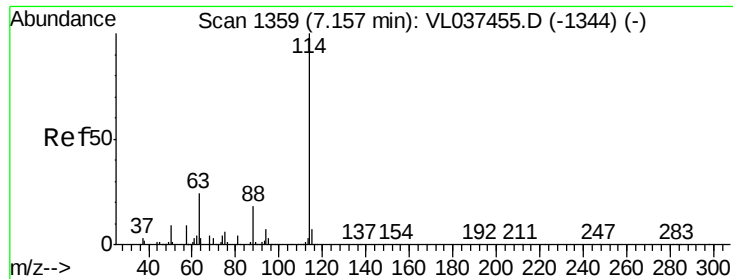
Ion Ratio Lower Upper

84 100

56 0.0 110.6 165.8#

41 0.0 67.0 100.6#

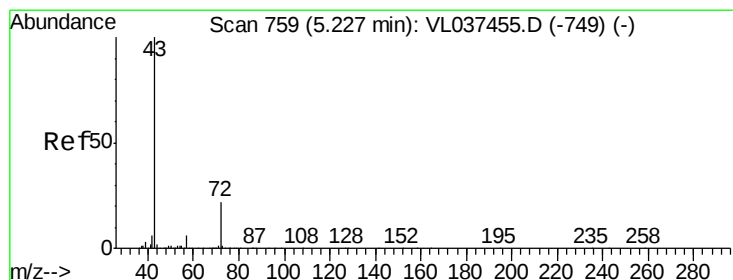
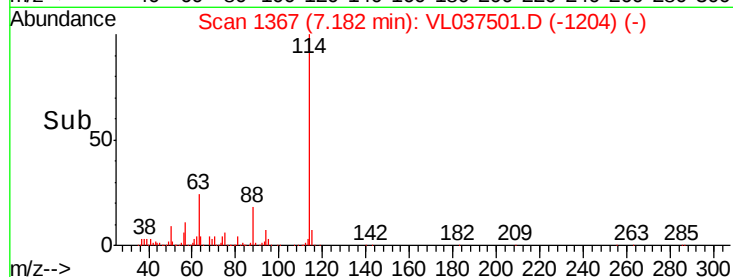
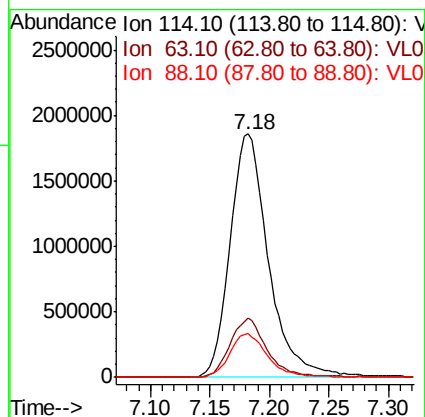
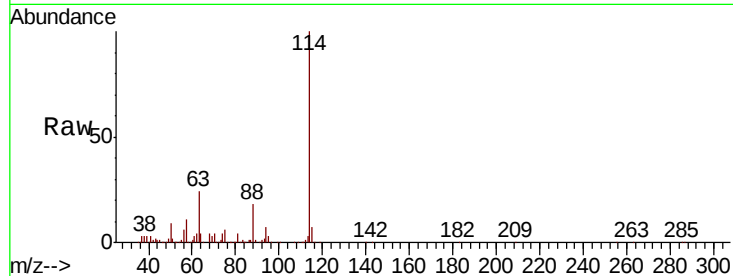




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. 0.03 min
 Lab File: VL037501.D
 Acq: 19 Aug 2021 16:37

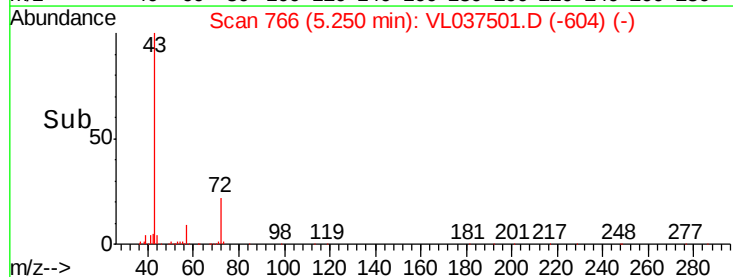
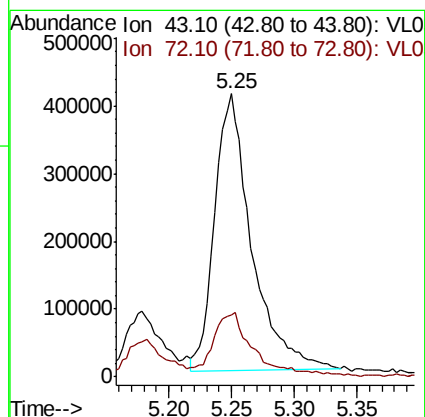
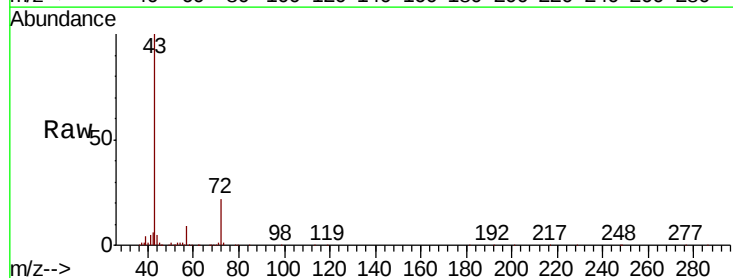
Instrument :
 MSVOA_L
 ClientSampled :

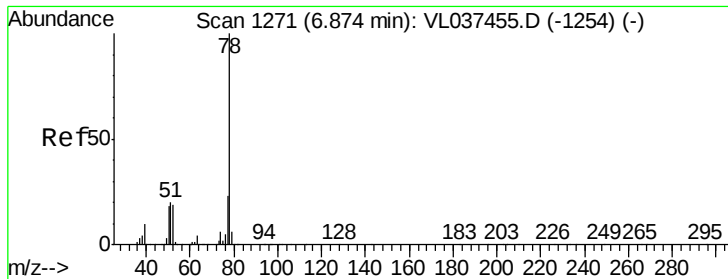
Tot Ion:114 Resp: 4136783
 Ion Ratio Lower Upper
 114 100
 63 23.9 19.3 28.9
 88 17.9 14.2 21.4



#34
 2-Butanone
 Concen: 4.977 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.02 min
 Lab File: VL037501.D
 Acq: 19 Aug 2021 16:37

Tgt Ion: 43 Resp: 840733
 Ion Ratio Lower Upper
 43 100
 72 26.6 17.4 26.0#





#36

Benzene

Concen: 8.173 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. 0.02 min

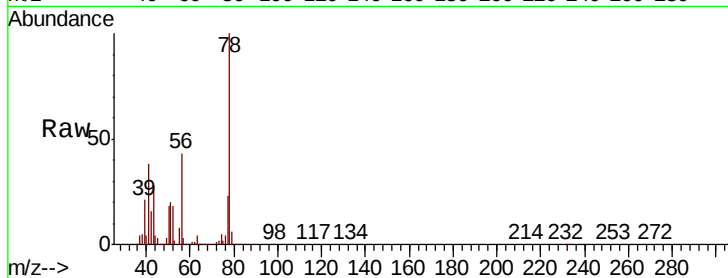
Lab File: VL037501.D

Acq: 19 Aug 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 78 Resp: 2842200

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.2	27.4
50	16.7	14.6	21.8

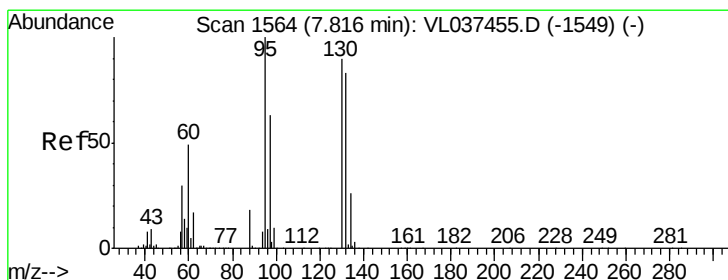
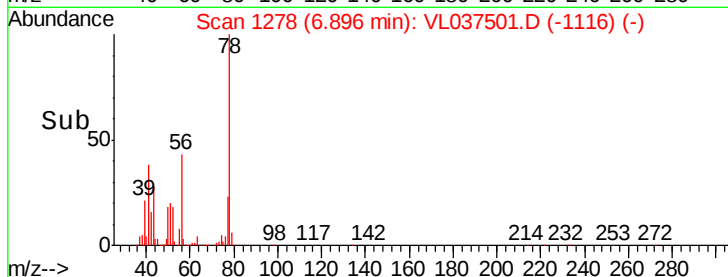
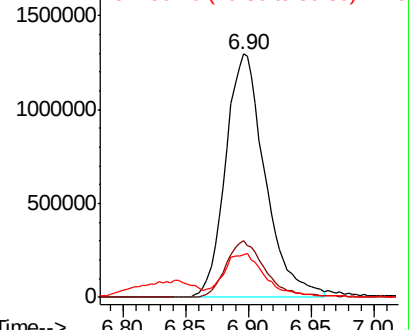


Abundance

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



#38

Trichloroethene

Concen: 0.473 ppbv

RT: 7.84 min Scan# 1571

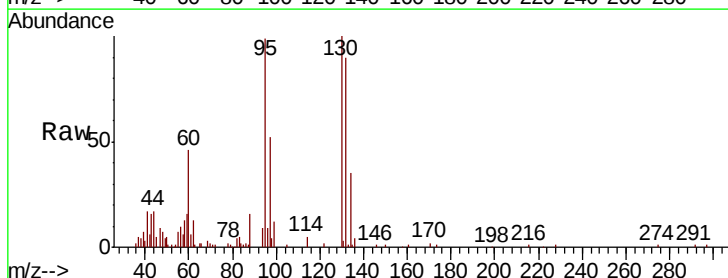
Delta R.T. 0.02 min

Lab File: VL037501.D

Acq: 19 Aug 2021 16:37

Tgt Ion: 130 Resp: 67459

Ion	Ratio	Lower	Upper
130	100		
95	100.8	89.2	133.8
132	89.6	74.0	111.0
97	48.5	56.6	84.8



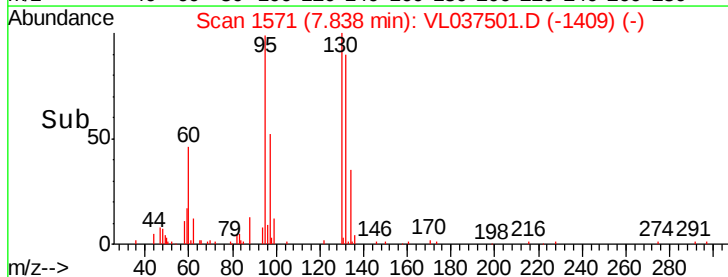
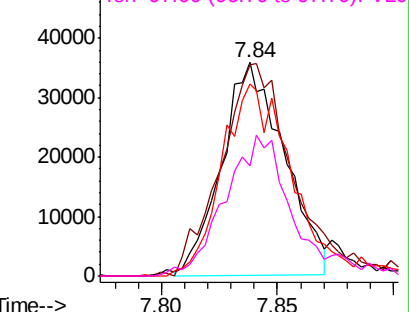
Abundance

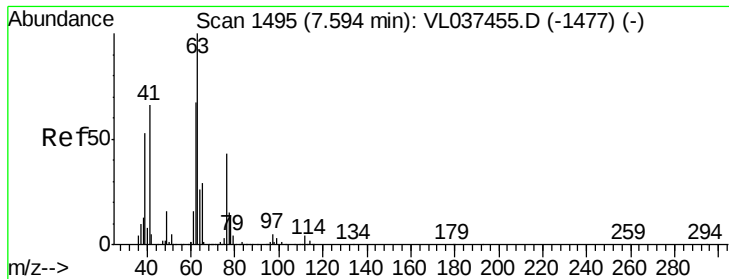
Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 7.181 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.41 min

Lab File: VL037501.D

Acq: 19 Aug 2021 16:37

Instrument :

MSVOA_L

ClientSampleId :

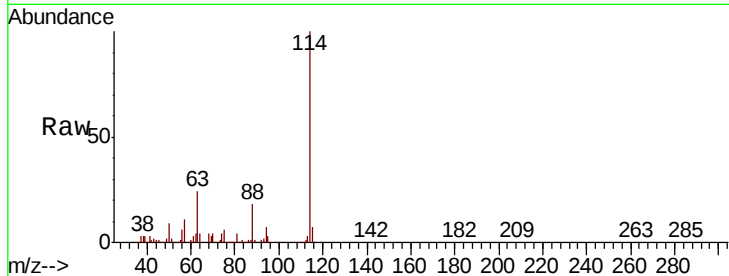
Tot Ion: 63 Resp: 959541

Ion Ratio Lower Upper

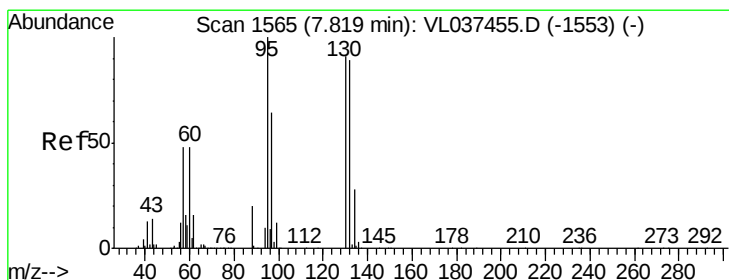
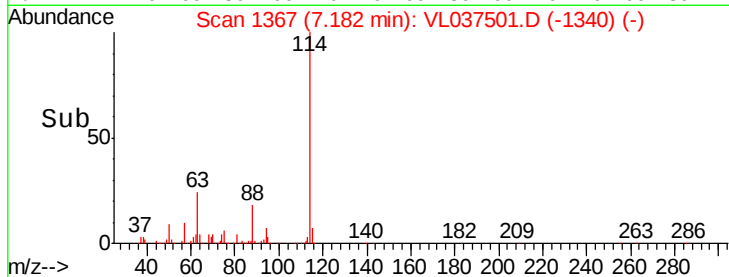
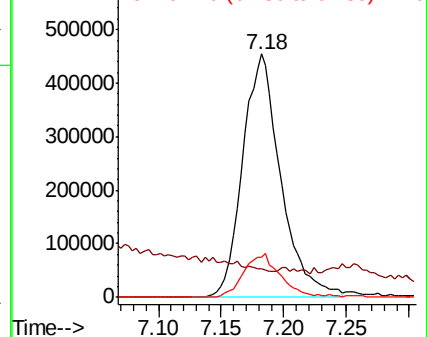
63 100

41 0.0 52.4 78.6#

62 16.5 53.6 80.4#



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



#40

1,4-Dioxane

Concen: 0.180 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. 0.03 min

Lab File: VL037501.D

Acq: 19 Aug 2021 16:37

Tgt Ion: 88 Resp: 5896

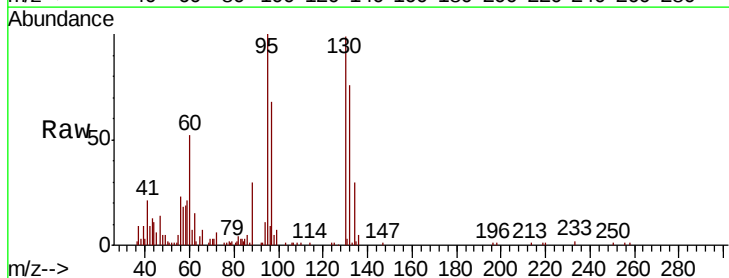
Ion Ratio Lower Upper

88 100

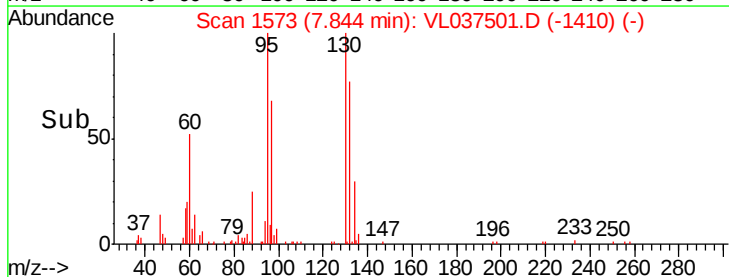
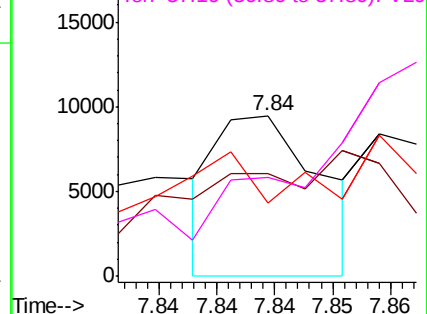
58 0.0 0.0 0.0

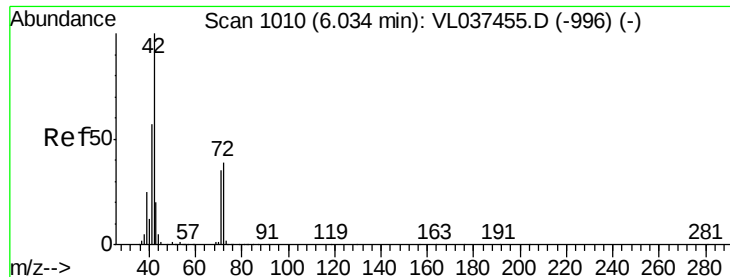
43 0.0 0.0 0.0

57 0.0 0.0 0.0



Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 0.173 ppbv

RT: 6.05 min Scan# 1015

Delta R.T. 0.02 min

Lab File: VL037501.D

Acq: 19 Aug 2021 16:37

Instrument :

MSVOA_L

ClientSampleId :

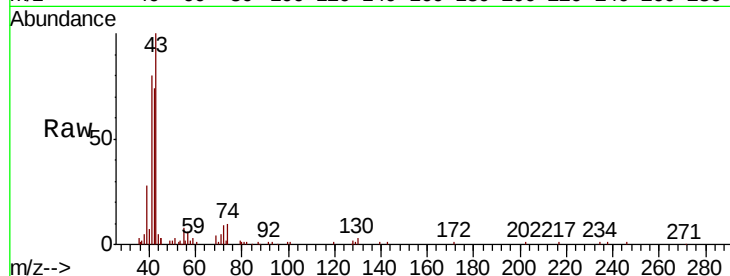
Tot Ion: 42 Resp: 14101

Ion Ratio Lower Upper

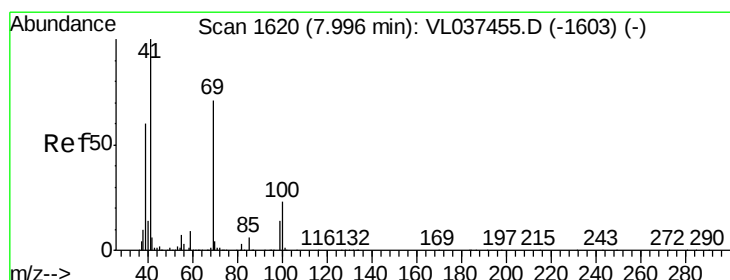
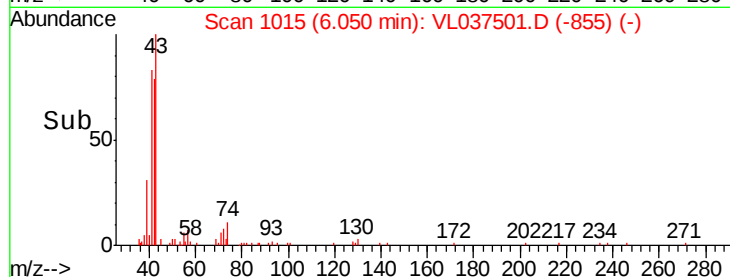
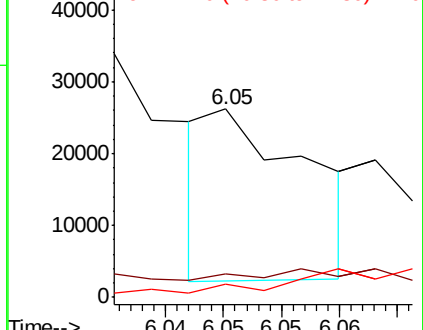
42 100

72 0.0 32.2 48.4#

71 0.0 30.5 45.7#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#43

Methyl Methacrylate

Concen: 0.097 ppbv

RT: 8.02 min Scan# 1629

Delta R.T. 0.03 min

Lab File: VL037501.D

Acq: 19 Aug 2021 16:37

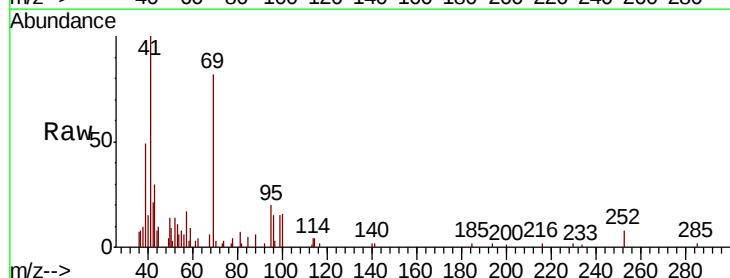
Tgt Ion: 69 Resp: 11707

Ion Ratio Lower Upper

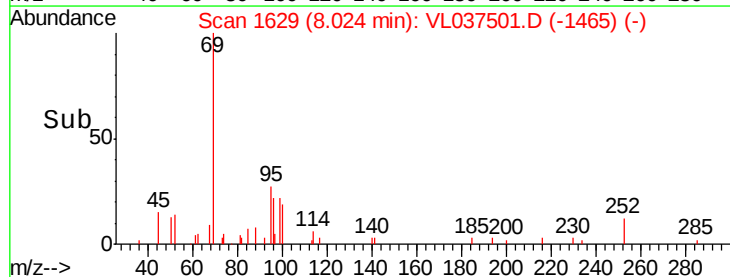
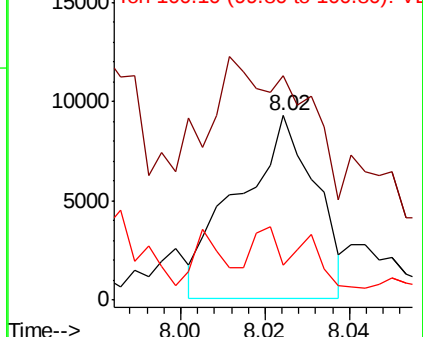
69 100

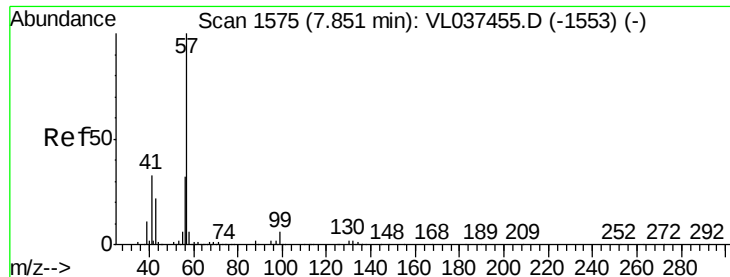
41 166.4 118.6 178.0

100 0.0 27.4 41.0#



Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

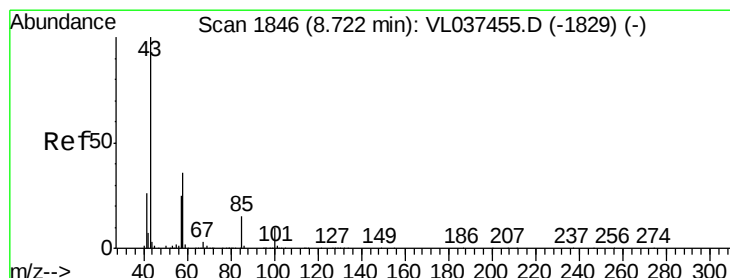
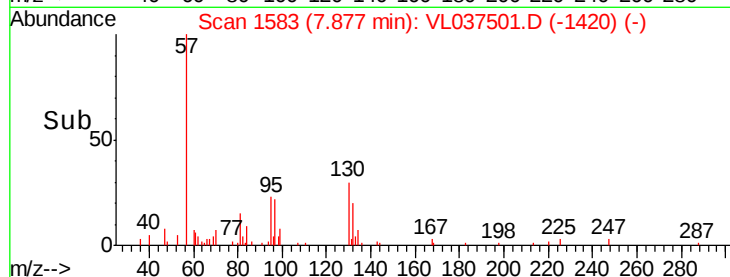
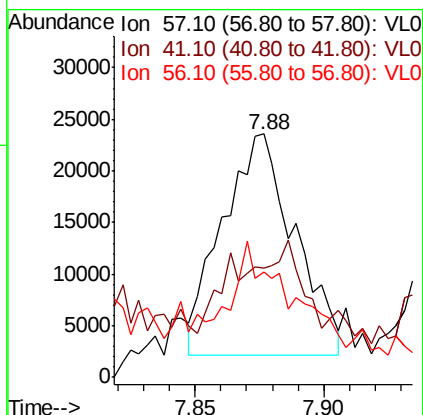
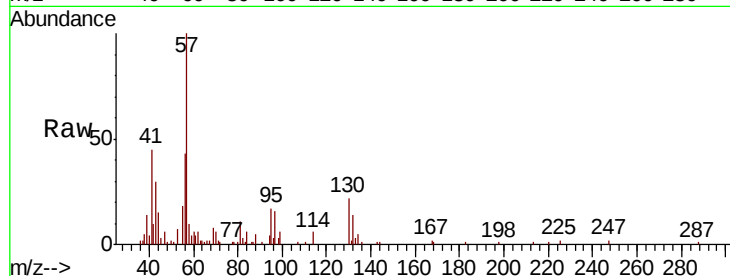




#44
 2,2,4-Trimethylpentane
 Concen: 0.072 ppbv
 RT: 7.88 min Scan# 1583
 Delta R.T. 0.03 min
 Lab File: VL037501.D
 Acq: 19 Aug 2021 16:37

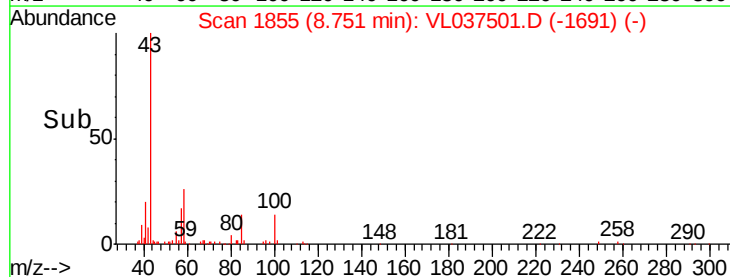
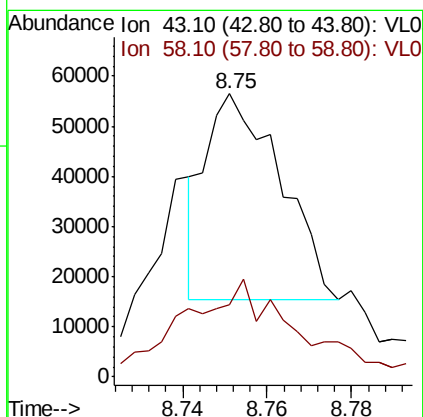
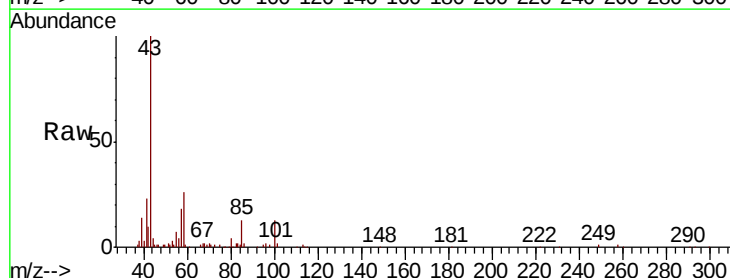
Instrument :
 MSVOA_L
 ClientSampleID :

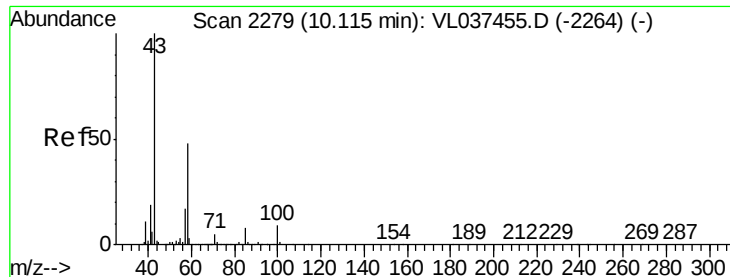
Tot Ion: 57 Resp: 41925
 Ion Ratio Lower Upper
 57 100
 41 47.4 26.2 39.4#
 56 45.8 25.4 38.2#



#50
 4-Methyl-2-Pentanone
 Concen: 0.228 ppbv
 RT: 8.75 min Scan# 1855
 Delta R.T. 0.03 min
 Lab File: VL037501.D
 Acq: 19 Aug 2021 16:37

Tgt Ion: 43 Resp: 50262
 Ion Ratio Lower Upper
 43 100
 58 87.6 29.9 44.9#

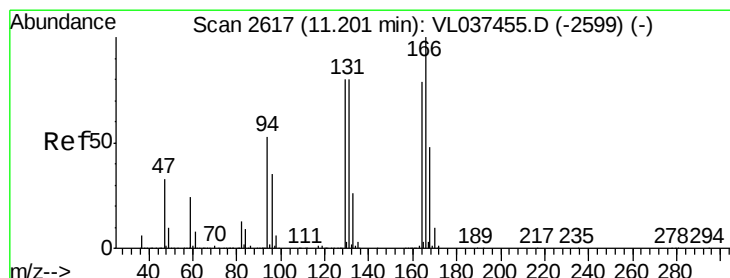
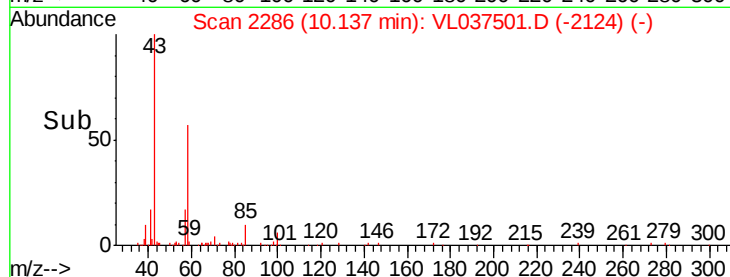
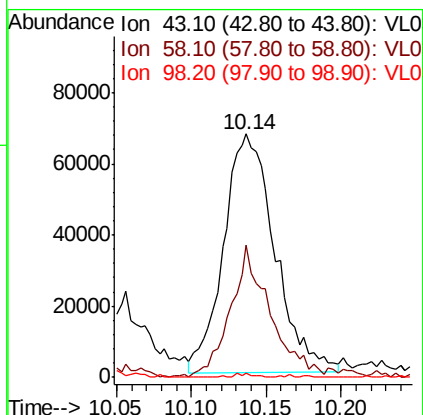
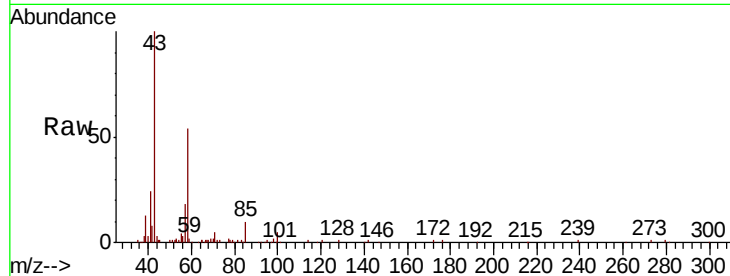




#51
2-Hexanone
Concen: 1.570 ppbv
RT: 10.14 min Scan# 2286
Delta R.T. 0.02 min
Lab File: VL037501.D
Acq: 19 Aug 2021 16:37

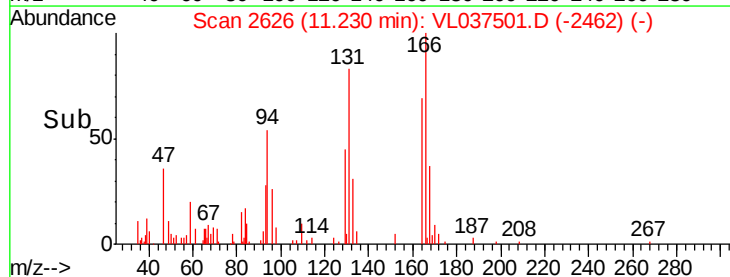
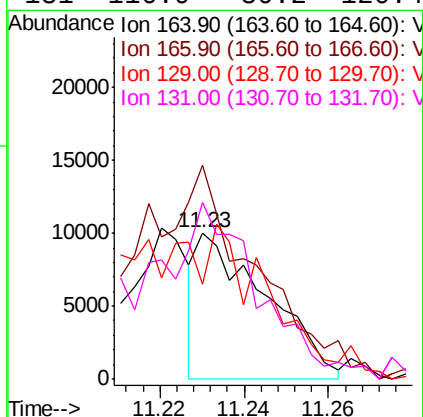
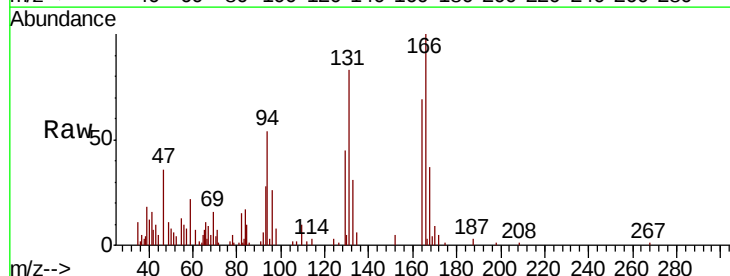
Instrument :
MSVOA_L
ClientSampleId :

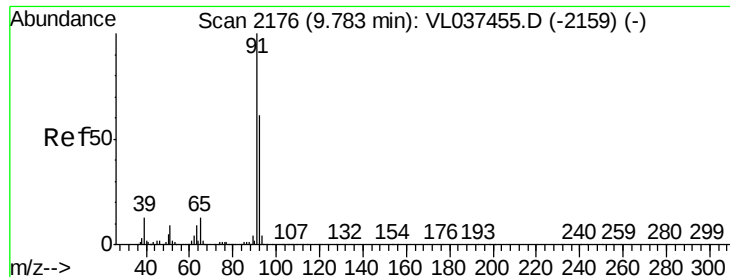
Tot Ion: 43 Resp: 159158
Ion Ratio Lower Upper
43 100
58 42.2 41.0 61.6
98 0.9 0.3 0.5#



#52
Tetrachloroethene
Concen: 0.080 ppbv
RT: 11.23 min Scan# 2626
Delta R.T. 0.03 min
Lab File: VL037501.D
Acq: 19 Aug 2021 16:37

Tgt Ion: 164 Resp: 11371
Ion Ratio Lower Upper
164 100
166 127.7 100.7 151.1
129 57.1 80.9 121.3#
131 116.9 80.2 120.4





#53

Toluene

Concen: 1.260 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. 0.03 min

Lab File: VL037501.D

Acq: 19 Aug 2021 16:37

Instrument :

MSVOA_L

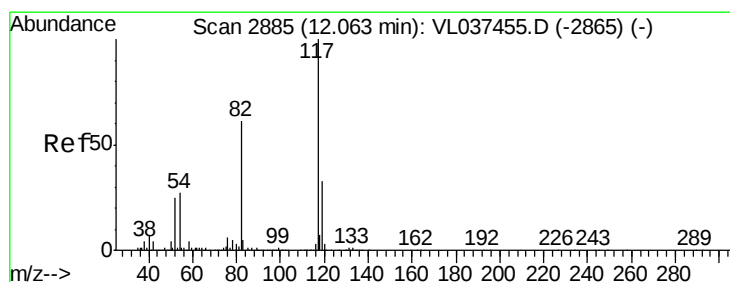
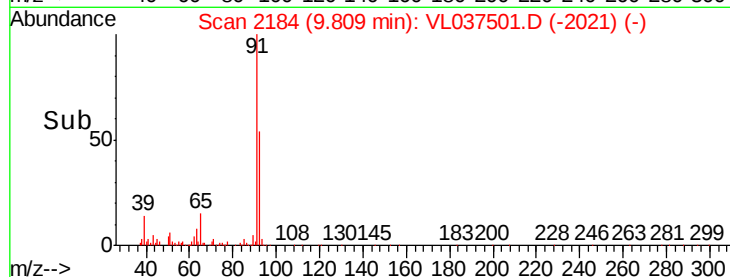
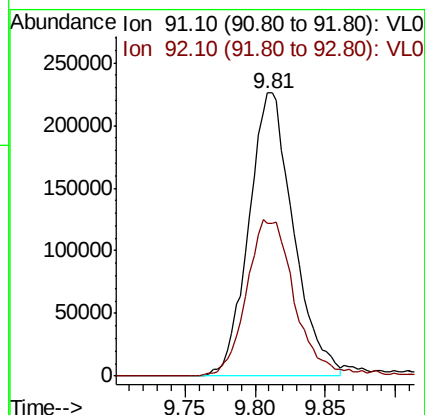
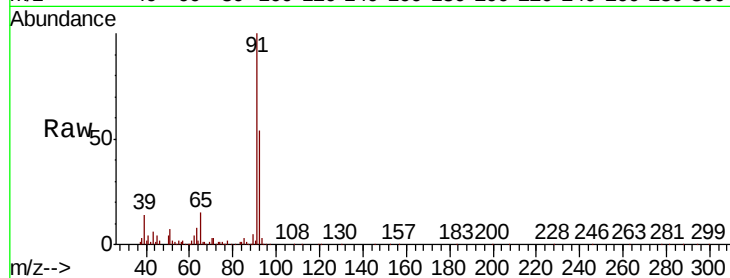
ClientSampled :

Tot Ion: 91 Resp: 500177

Ion Ratio Lower Upper

91 100

92 59.8 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. 0.03 min

Lab File: VL037501.D

Acq: 19 Aug 2021 16:37

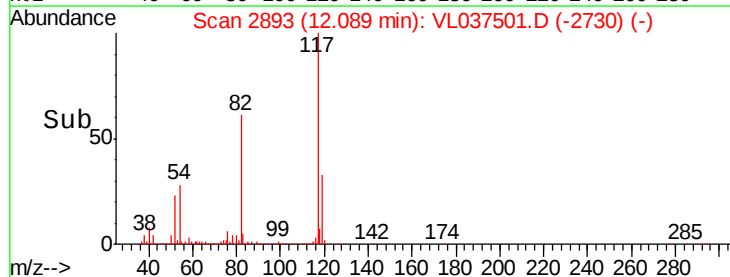
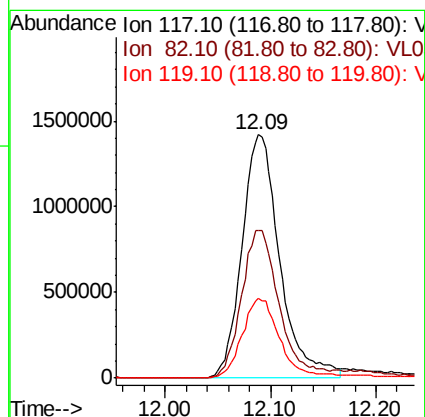
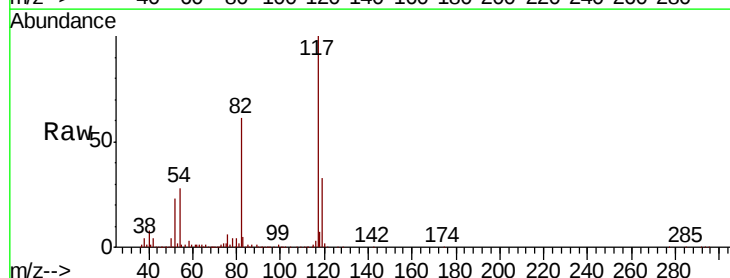
Tgt Ion: 117 Resp: 3546399

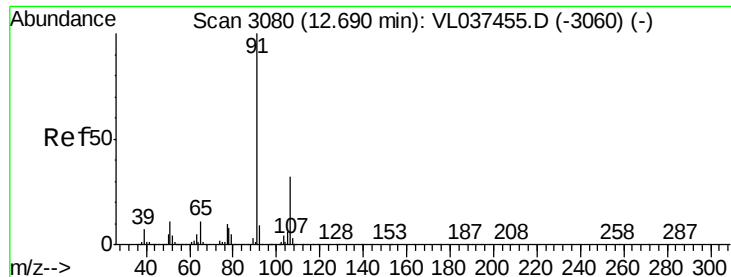
Ion Ratio Lower Upper

117 100

82 66.5 52.9 79.3

119 33.5 24.8 37.2





#58

Ethyl Benzene

Concen: 0.820 ppbv

RT: 12.71 min Scan# 3087

Delta R.T. 0.02 min

Lab File: VL037501.D

Acq: 19 Aug 2021 16:37

Instrument :

MSVOA_L

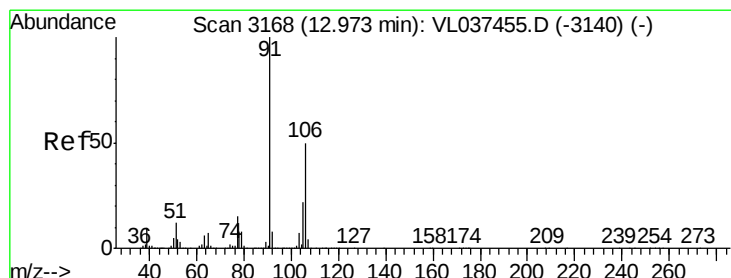
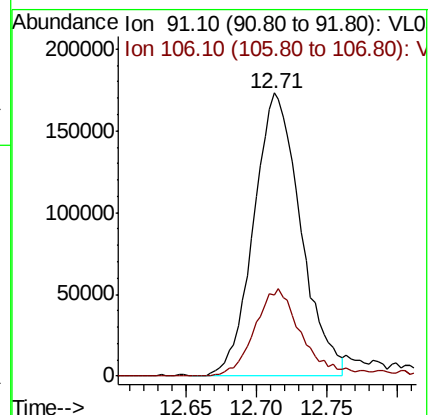
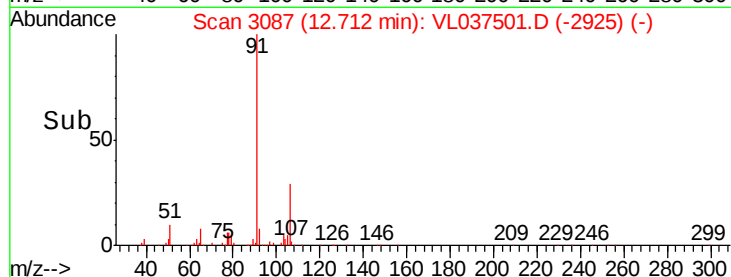
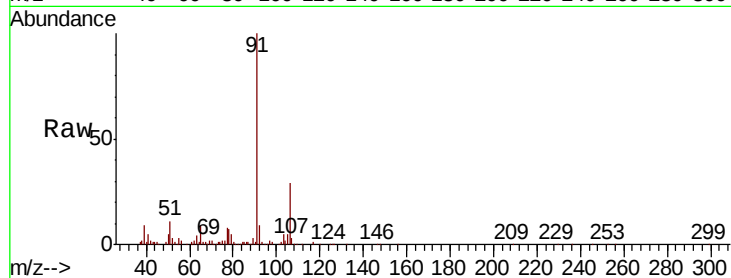
ClientSampleId :

Tot Ion: 91 Resp: 403542

Ion Ratio Lower Upper

91 100

106 28.4 25.7 38.5



#59

m/p-Xylene

Concen: 4.045 ppbv

RT: 12.97 min Scan# 3167

Delta R.T. -0.00 min

Lab File: VL037501.D

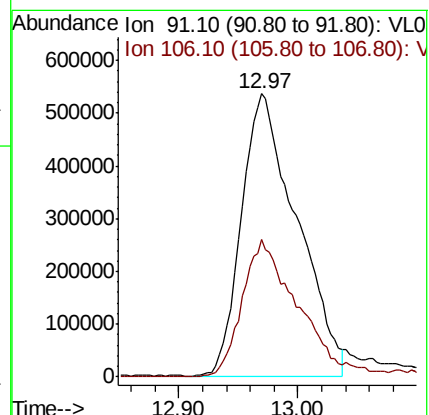
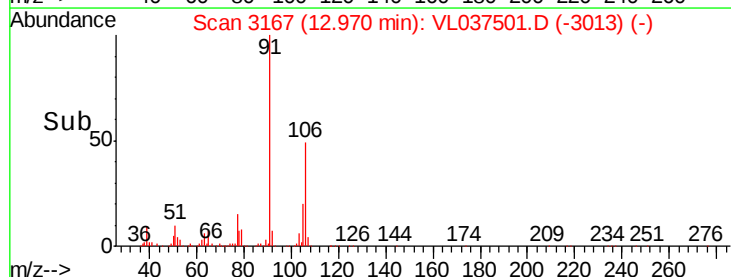
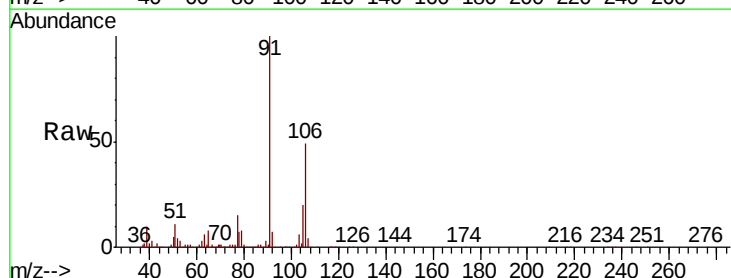
Acq: 19 Aug 2021 16:37

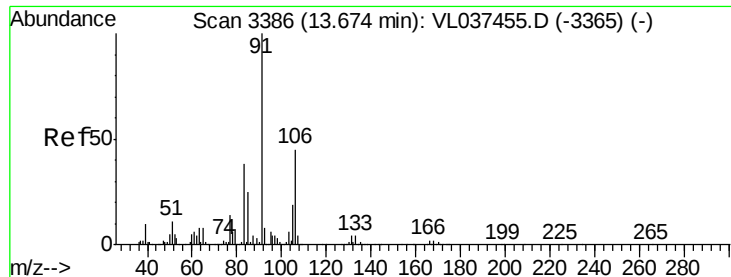
Tgt Ion: 91 Resp: 1725818

Ion Ratio Lower Upper

91 100

106 51.5 36.9 55.3

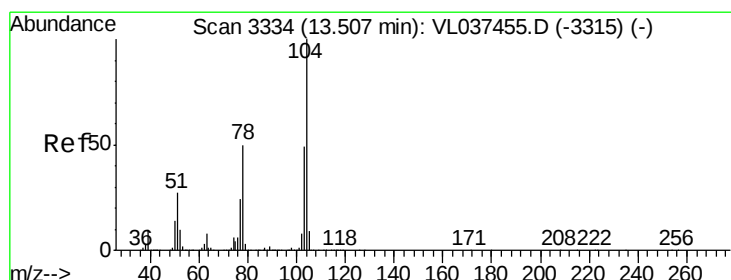
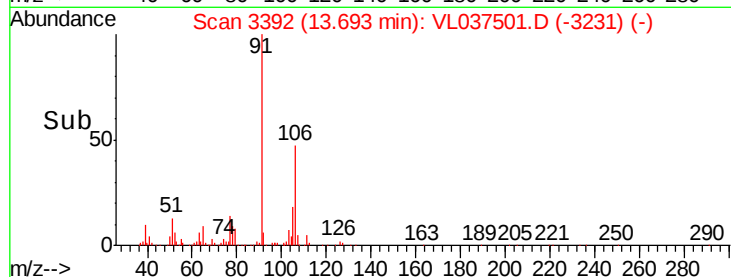
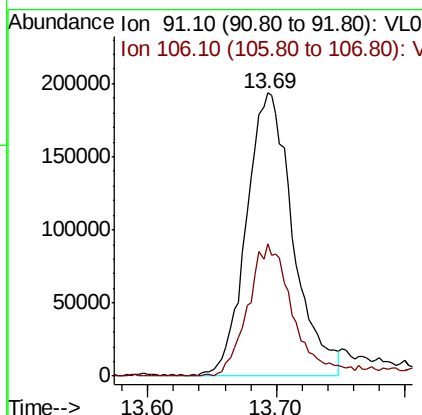
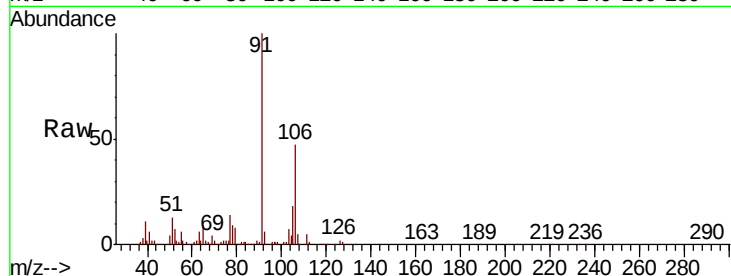




#60
o-Xylene
Concen: 1.224 ppbv
RT: 13.69 min Scan# 3392
Delta R.T. 0.02 min
Lab File: VL037501.D
Acq: 19 Aug 2021 16:37

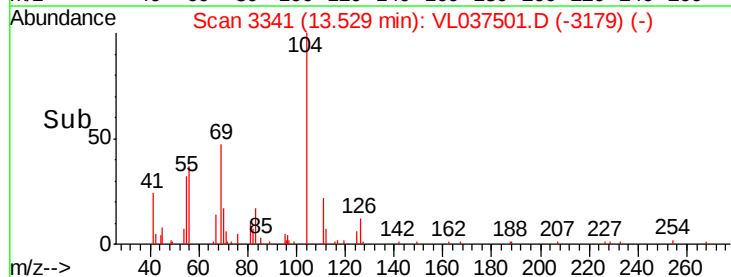
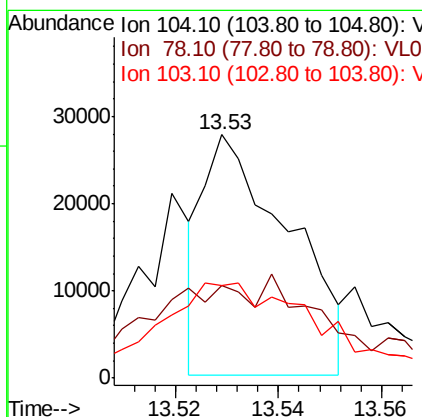
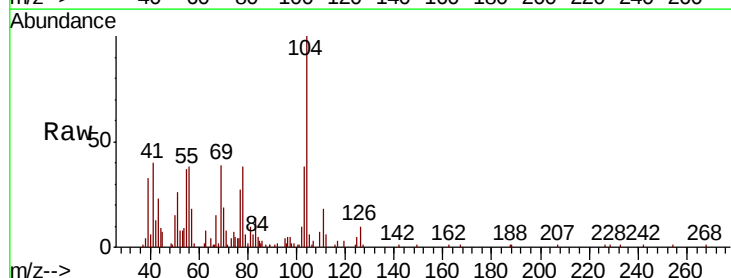
Instrument :
MSVOA_L
ClientSampled :

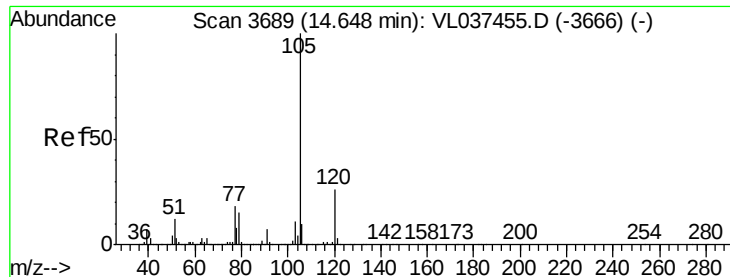
Tot Ion: 91 Resp: 487474
Ion Ratio Lower Upper
91 100
106 46.2 23.7 71.1



#61
Styrene
Concen: 0.153 ppbv
RT: 13.53 min Scan# 3341
Delta R.T. 0.02 min
Lab File: VL037501.D
Acq: 19 Aug 2021 16:37

Tgt Ion:104 Resp: 31678
Ion Ratio Lower Upper
104 100
78 100.2 41.3 61.9#
103 83.9 39.4 59.0#





#62

Isopropylbenzene

Concen: 2.014 ppbv

RT: 14.67 min Scan# 3696

Delta R.T. 0.02 min

Lab File: VL037501.D

Acq: 19 Aug 2021 16:37

Instrument :

MSVOA_L

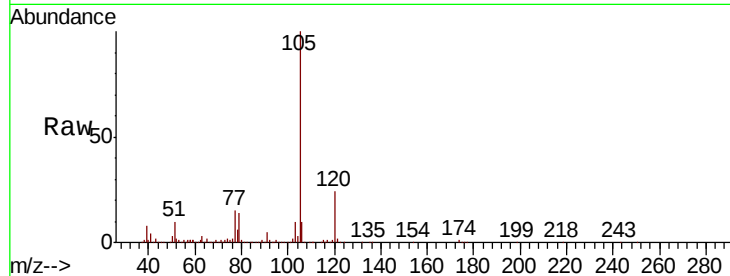
ClientSampleId :

Tot Ion:105 Resp: 1132021

Ion Ratio Lower Upper

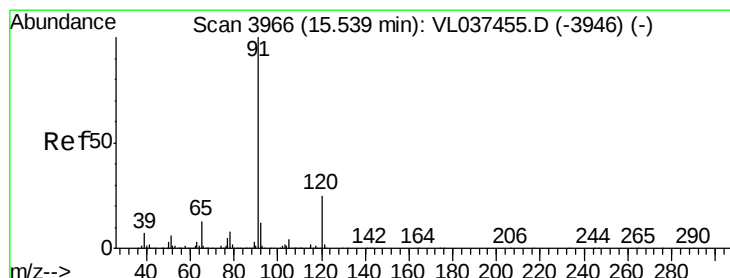
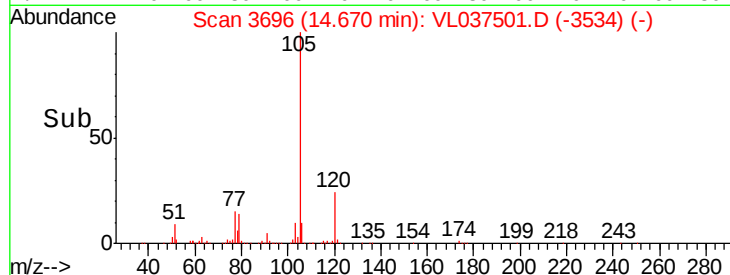
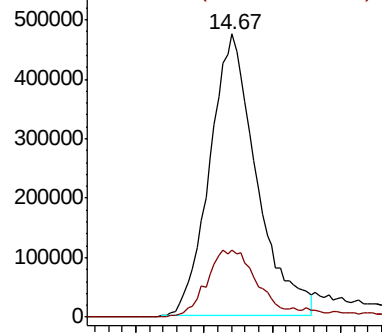
105 100

120 28.7 21.5 32.3



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.043 ppbv

RT: 15.56 min Scan# 3973

Delta R.T. 0.02 min

Lab File: VL037501.D

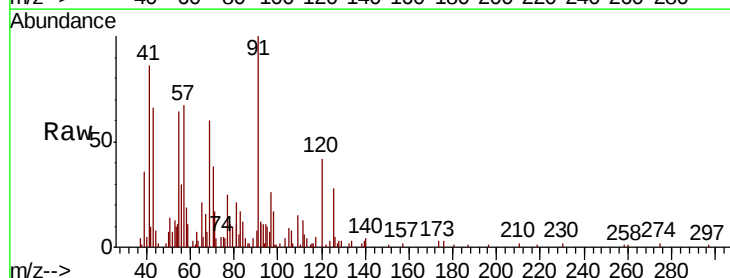
Acq: 19 Aug 2021 16:37

Tgt Ion:120 Resp: 6182

Ion Ratio Lower Upper

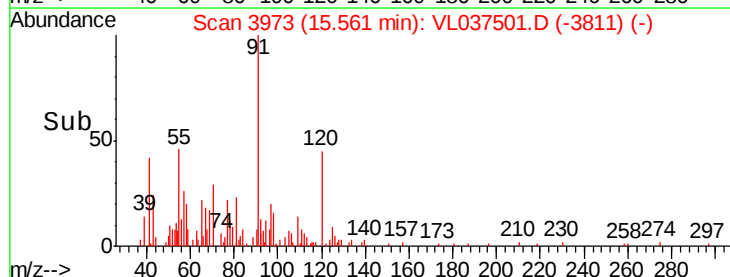
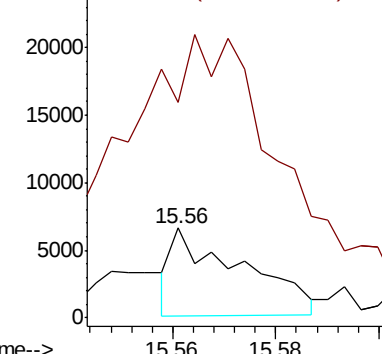
120 100

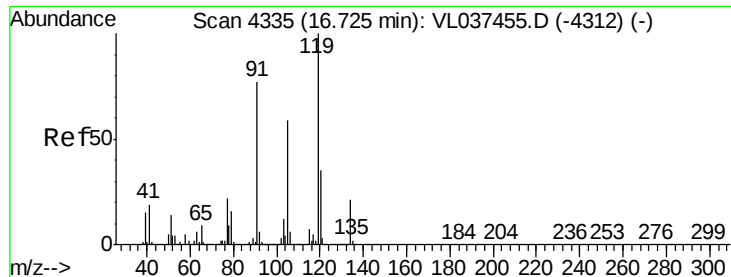
91 832.4 373.8 560.6#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V





#65

tert-Butylbenzene

Concen: 0.036 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. 0.03 min

Lab File: VL037501.D

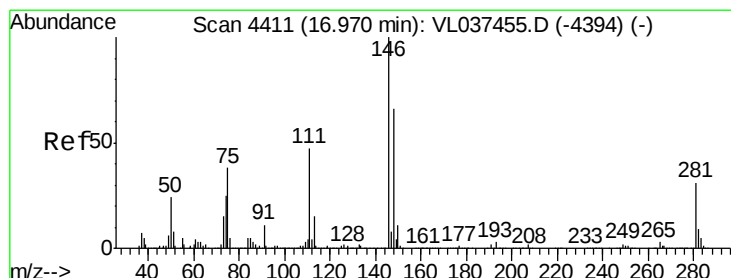
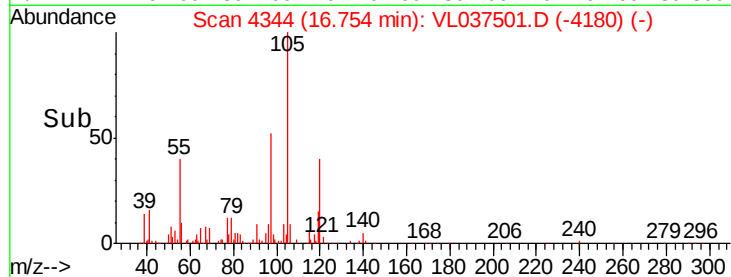
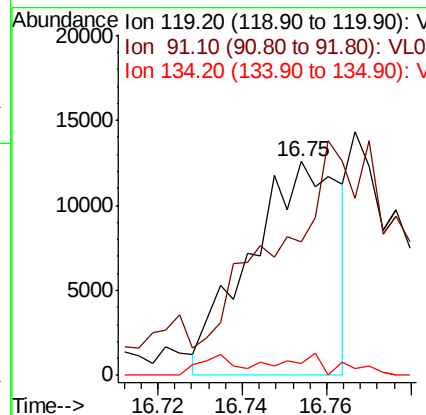
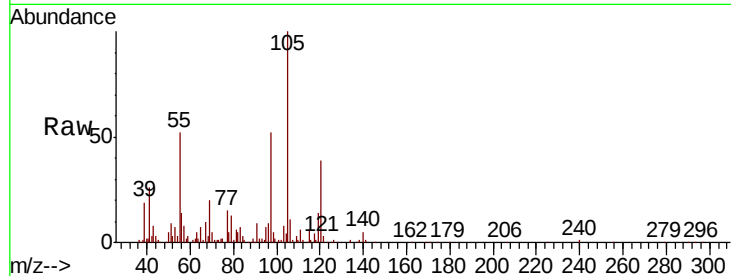
Acq: 19 Aug 2021 16:37

Instrument :

MSVOA_L

ClientSampled :

Tot Ion:	119	Resp:	18392
Ion	Ratio	Lower	Upper
119	100		
91	0.0	62.9	94.3#
134	10.2	16.4	24.6#



#66

Benzyl Chloride

Concen: 0.103 ppbv

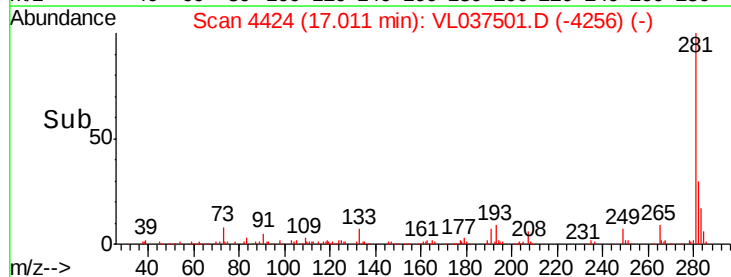
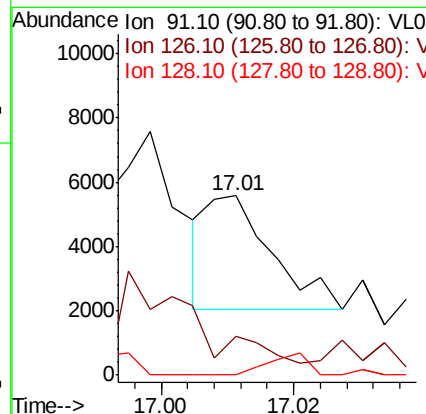
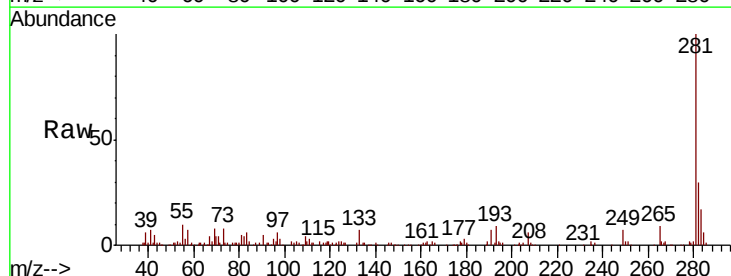
RT: 17.01 min Scan# 4424

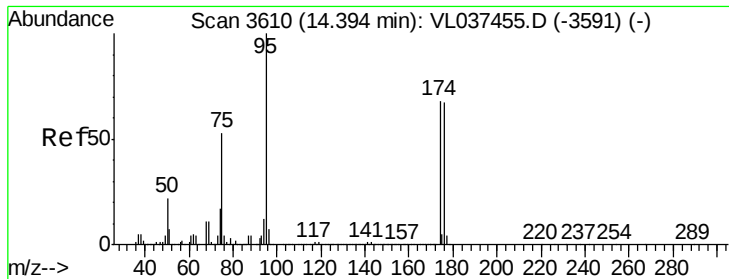
Delta R.T. 0.04 min

Lab File: VL037501.D

Acq: 19 Aug 2021 16:37

Tgt Ion:	91	Resp:	2388
Ion	Ratio	Lower	Upper
91	100		
126	0.0	15.9	23.9#
128	0.0	5.4	8.0#

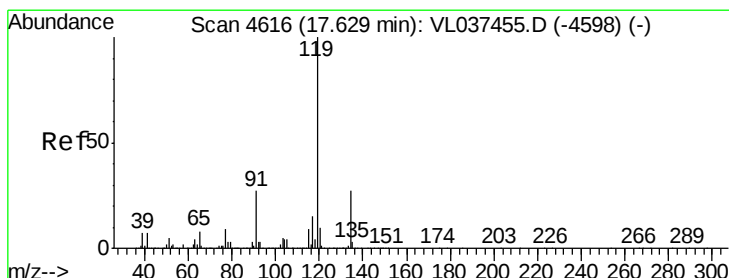
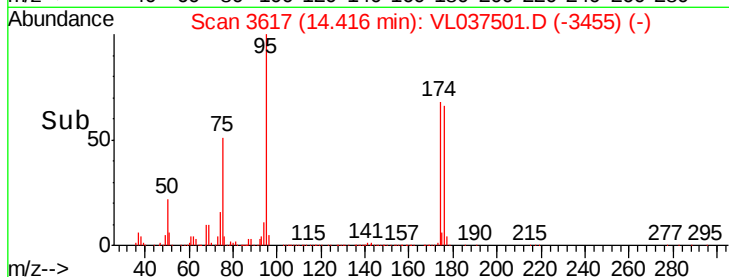
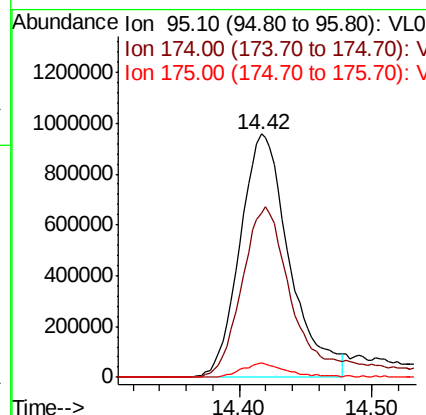
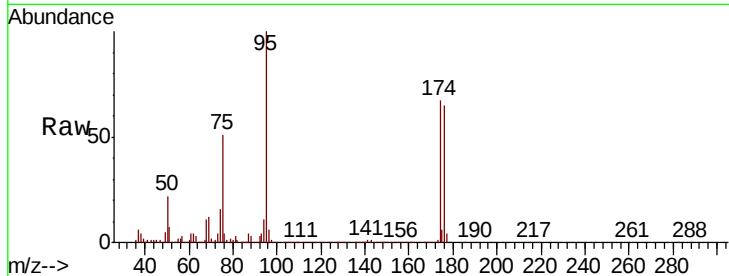




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.817 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T. 0.02 min
 Lab File: VL037501.D
 Acq: 19 Aug 2021 16:37

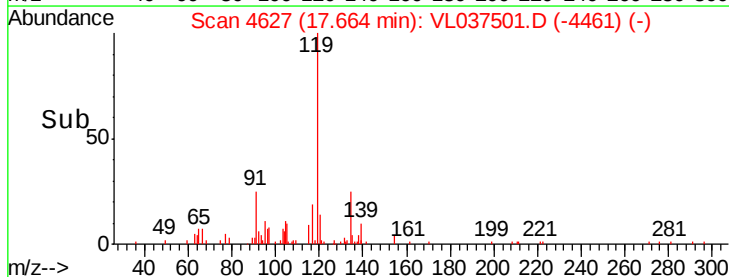
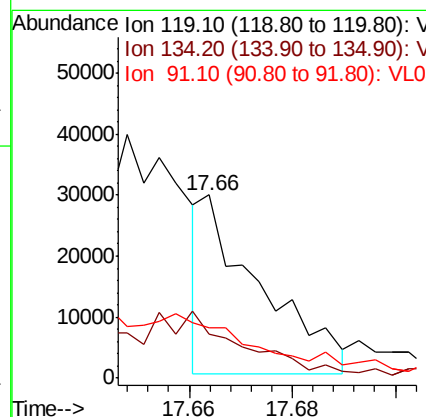
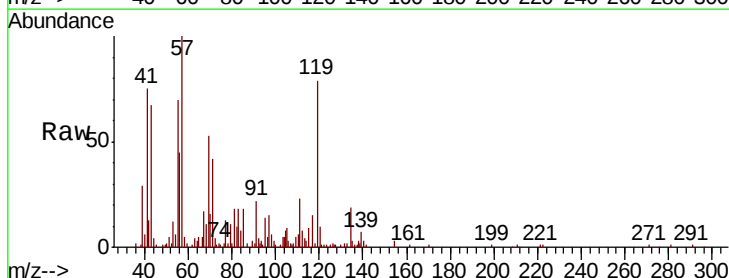
Instrument :
 MSVOA_L
 ClientSampleId :

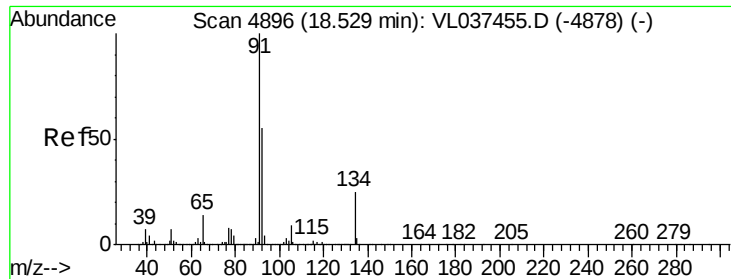
Tot Ion: 95 Resp: 2473530
 Ion Ratio Lower Upper
 95 100
 174 78.1 59.6 89.4
 175 5.9 4.6 7.0



#69
 p-Isopropyltoluene
 Concen: 0.040 ppbv
 RT: 17.66 min Scan# 4627
 Delta R.T. 0.04 min
 Lab File: VL037501.D
 Acq: 19 Aug 2021 16:37

Tgt Ion: 119 Resp: 23221
 Ion Ratio Lower Upper
 119 100
 134 105.0 21.1 31.7#
 91 0.0 22.4 33.6#

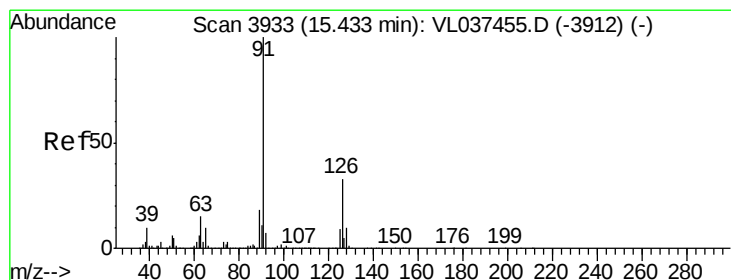
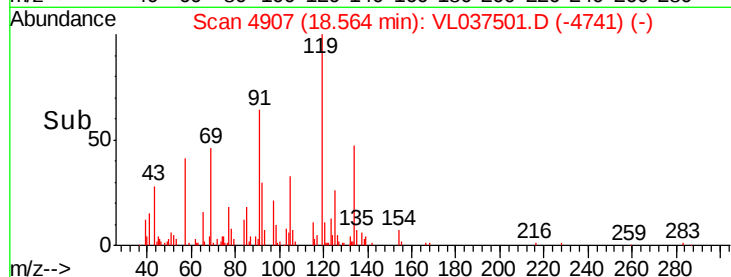
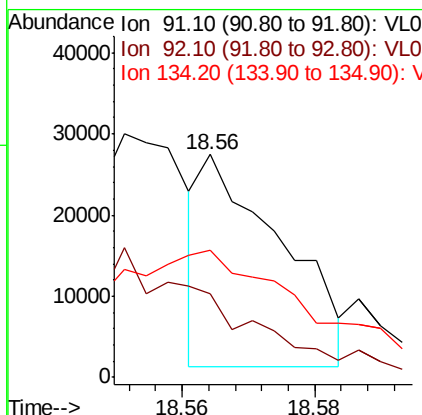
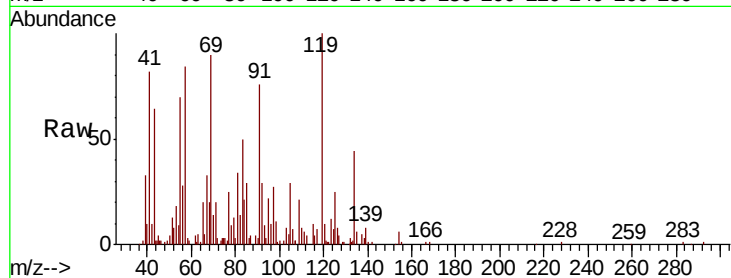




#70
n-Butylbenzene
Concen: 0.040 ppbv
RT: 18.56 min Scan# 4907
Delta R.T. 0.04 min
Lab File: VL037501.D
Acq: 19 Aug 2021 16:37

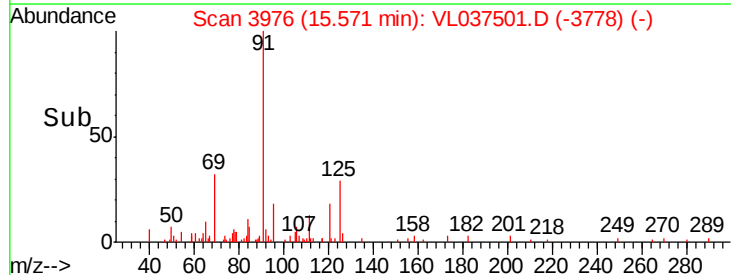
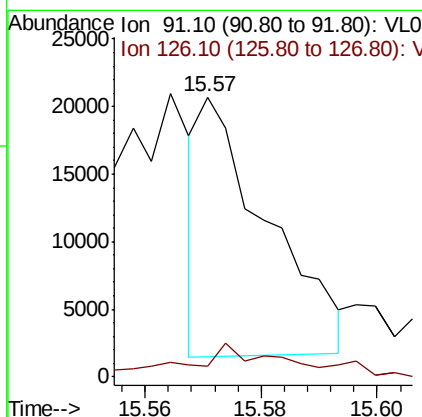
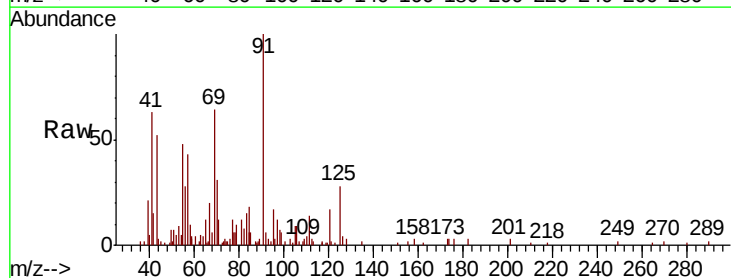
Instrument :
MSVOA_L
ClientSampleID :

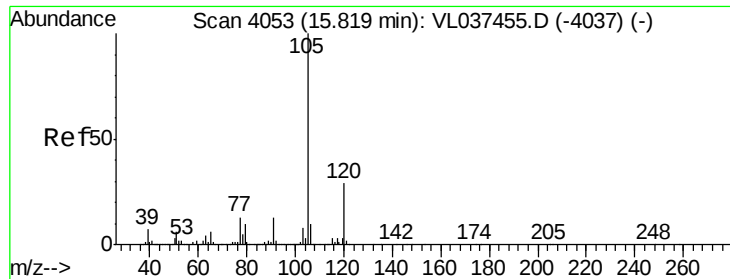
Tot Ion: 91 Resp: 22146
Ion Ratio Lower Upper
91 100
92 0.0 44.0 66.0#
134 232.9 19.5 29.3#



#71
2-Chlorotoluene
Concen: 0.038 ppbv
RT: 15.57 min Scan# 3976
Delta R.T. 0.14 min
Lab File: VL037501.D
Acq: 19 Aug 2021 16:37

Tgt Ion: 91 Resp: 15615
Ion Ratio Lower Upper
91 100
126 23.6 13.6 54.4





#72

4-Ethyltoluene

Concen: 0.060 ppbv

RT: 15.84 min Scan# 4060

Delta R.T. 0.02 min

Lab File: VL037501.D

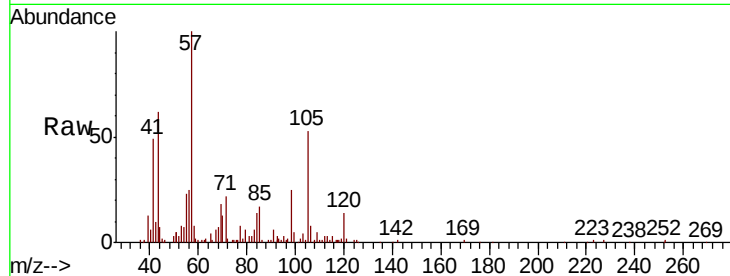
Acq: 19 Aug 2021 16:37

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	105	Resp:	28454
Ion Ratio	Lower	Upper	
105	100		
120	0.0	24.7	37.1#
91	0.0	9.8	14.8#
77	0.0	10.6	15.8#

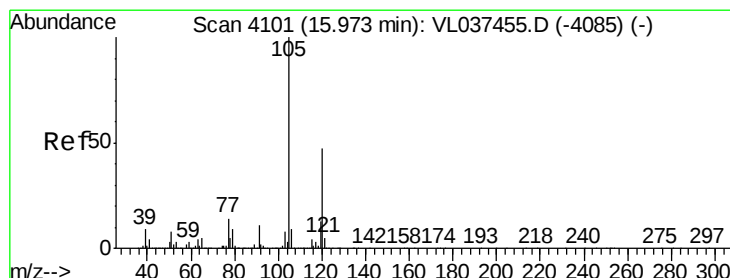
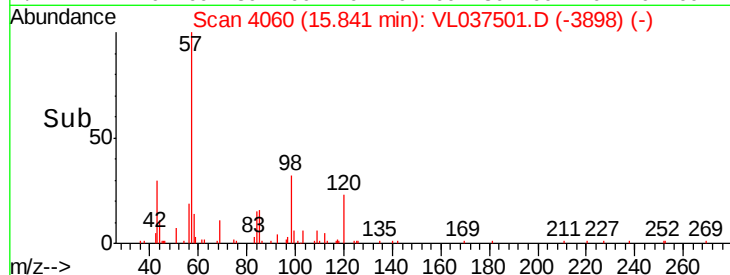
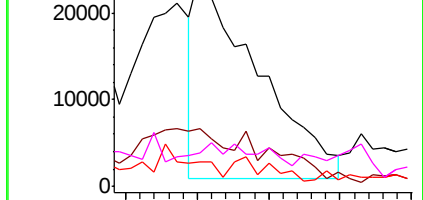


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.168 ppbv

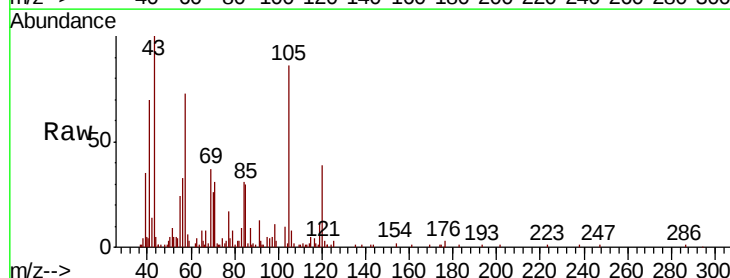
RT: 16.00 min Scan# 4109

Delta R.T. 0.03 min

Lab File: VL037501.D

Acq: 19 Aug 2021 16:37

Tgt Ion:	105	Resp:	73902
Ion Ratio	Lower	Upper	
105	100		
120	46.9	37.6	56.4

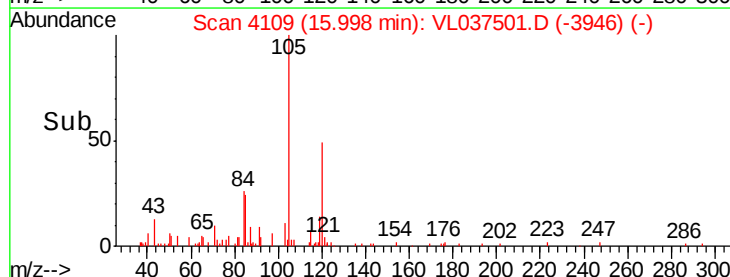
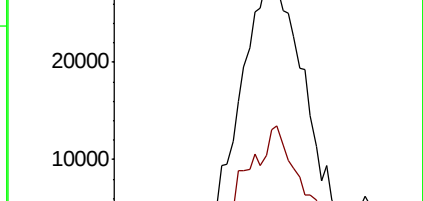


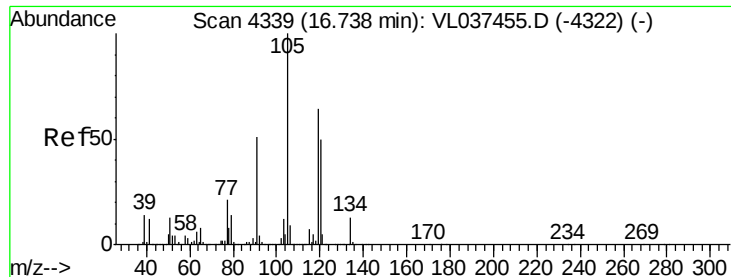
Abundance Ion 105.10 (104.80 to 105.80): V

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





#74

1,2,4-Trimethylbenzene

Concen: 0.532 ppbv

RT: 16.76 min Scan# 4347

Delta R.T. 0.03 min

Lab File: VL037501.D

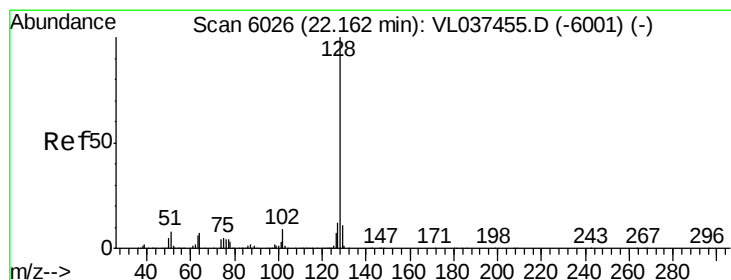
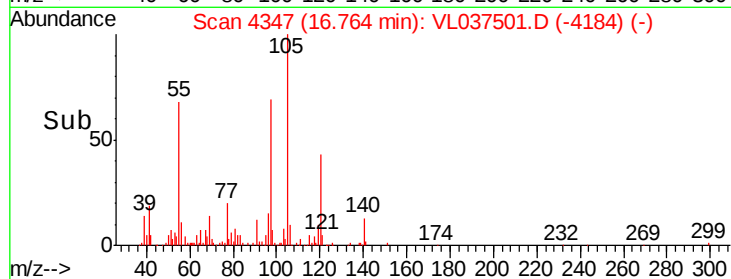
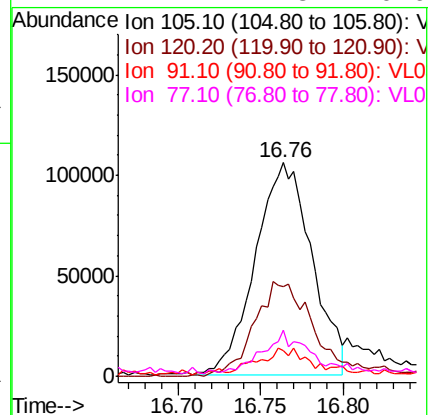
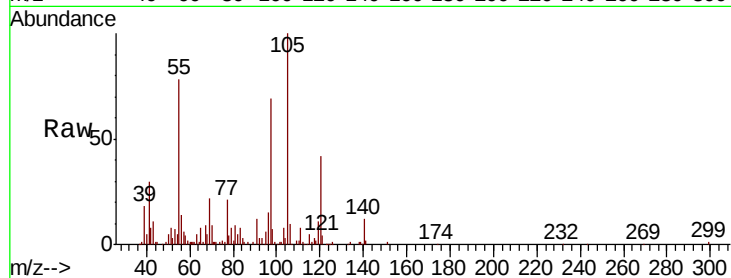
Acq: 19 Aug 2021 16:37

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	105	Resp:	249141
Ion	Ratio	Lower	Upper
105	100		
120	42.1	40.4	60.6
91	11.1	44.6	67.0#
77	17.4	17.8	26.6#



#79

Naphthalene

Concen: 0.744 ppbv

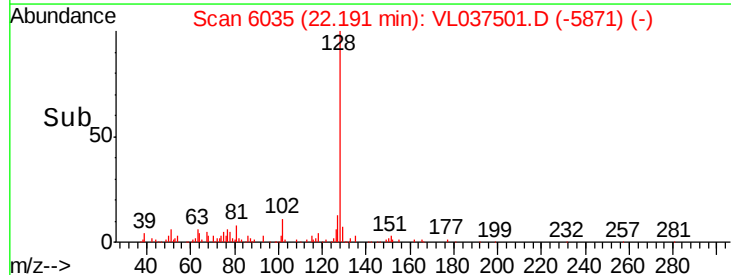
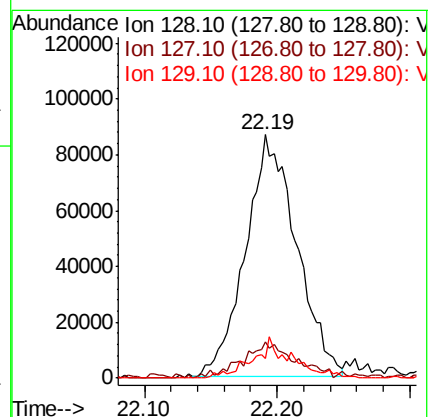
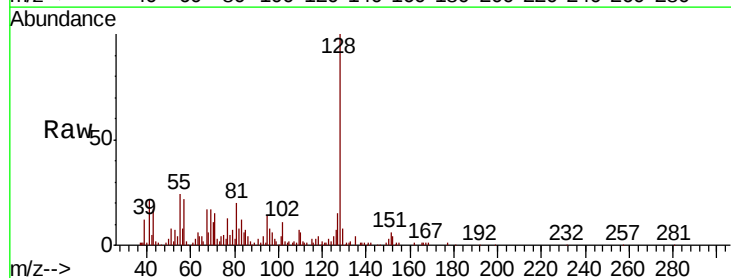
RT: 22.19 min Scan# 6035

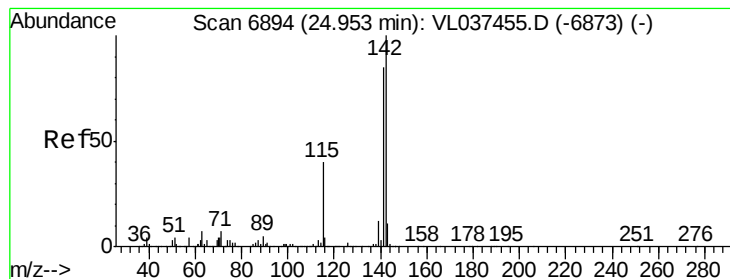
Delta R.T. 0.03 min

Lab File: VL037501.D

Acq: 19 Aug 2021 16:37

Tgt Ion:	128	Resp:	233205
Ion	Ratio	Lower	Upper
128	100		
127	14.3	9.4	14.2#
129	8.3	8.8	13.2#

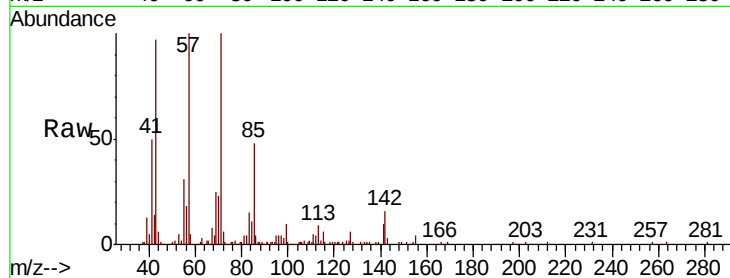




#80
 Naphthalene, 2-methyl-
 Concen: 0.271 ppbv
 RT: 24.97 min Scan# 6900
 Delta R.T. 0.02 min
 Lab File: VL037501.D
 Acq: 19 Aug 2021 16:37

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
142	100		
141	95.0	64.7	97.1
115	56.8	28.4	42.6



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

