

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051322\
 Data File : VL039041.D
 Acq On : 13 May 2022 17:35
 Operator : SY/AP
 Sample : 0.4 MDL
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 MDL

Quant Time: May 14 00:53:05 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	888018	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.15	114	2194016	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	1832376	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1454181	10.02	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	78173	0.562	ppbv 94
3) Chlorodifluoromethane	2.98	51	51116	0.464	ppbv 100
4) Chloromethane	3.13	50	15748	0.285	ppbv 95
5) Vinyl Chloride	3.25	62	12749	0.253	ppbv # 68
6) Bromomethane	3.46	94	7092	0.298	ppbv 85
7) Chloroethane	3.55	64	8239	0.488	ppbv # 70
8) Dichlorotetrafluoroethane	3.18	85	59095	0.469	ppbv 91
9) Propene	3.00	41	24579	0.511	ppbv 93
10) Heptane	8.10	43	45402	0.385	ppbv 95
11) Trichlorofluoromethane	3.94	101	48687	0.408	ppbv 96
12) 1,1,2-Trichlorotrifluoroet	4.47	101	39924	0.485	ppbv 98
13) Ethanol	3.61	45	908	0.267	ppbv # 31
14) Bromoethene	3.73	108	13213	0.390	ppbv # 63
15) Acetone	3.85	43	35506	0.424	ppbv # 65
16) 1,3-Butadiene	3.32	39	19090	0.397	ppbv 84
17) tert-Butyl alcohol	4.28	59	5742	0.089	ppbv # 70
18) 1,1-Dichloroethene	4.28	96	16667	0.471	ppbv # 72
20) Methylene Chloride	4.33	84	12594	0.399	ppbv # 82
21) Allvl Chloride	4.40	41	12500	0.219	ppbv # 1
22) trans-1,2-Dichloroethene	4.88	96	4406	0.115	ppbv # 39
23) Vinyl Acetate	5.06	43	24456	0.369	ppbv # 87
24) 1,1-Dichloroethane	5.00	63	17626	0.231	ppbv # 90
25) Ethyl Acetate	5.67	43	85434	0.426	ppbv # 96
26) Hexane	5.67	57	18663	0.210	ppbv # 1
27) Carbon Disulfide	4.54	76	23161	0.274	ppbv # 54
28) Methyl tert-Butyl Ether	5.03	73	33025	0.487	ppbv 91
29) Chloroform	5.74	83	59726	0.414	ppbv 87
30) Cyclohexane	7.11	84	19827	0.266	ppbv # 51
31) cis-1,2-Dichloroethene	5.53	61	33240	0.366	ppbv 96
32) 1,1,1-Trichloroethane	6.49	97	58097	0.403	ppbv 94
34) 2-Butanone	5.24	43	23903	0.214	ppbv # 54
35) Carbon Tetrachloride	6.99	117	17567	0.122	ppbv 95
36) Benzene	6.88	78	30695	0.163	ppbv 96
37) 1,2-Dichloroethane	6.29	62	47339	0.407	ppbv 97
38) Trichloroethene	7.80	130	9392	0.113	ppbv # 80
39) 1,2-Dichloropropane	7.59	63	19883	0.272	ppbv 91
41) Tetrahydrofuran	6.06	42	21314	0.283	ppbv # 79
42) Bromodichloromethane	7.77	83	30118	0.190	ppbv 99
43) Methyl Methacrylate	8.00	69	14768	0.194	ppbv # 1
44) 2,2,4-Trimethylpentane	7.85	57	133182	0.404	ppbv 96
45) t-1,3-Dichloropropene	9.27	75	16876	0.229	ppbv 99

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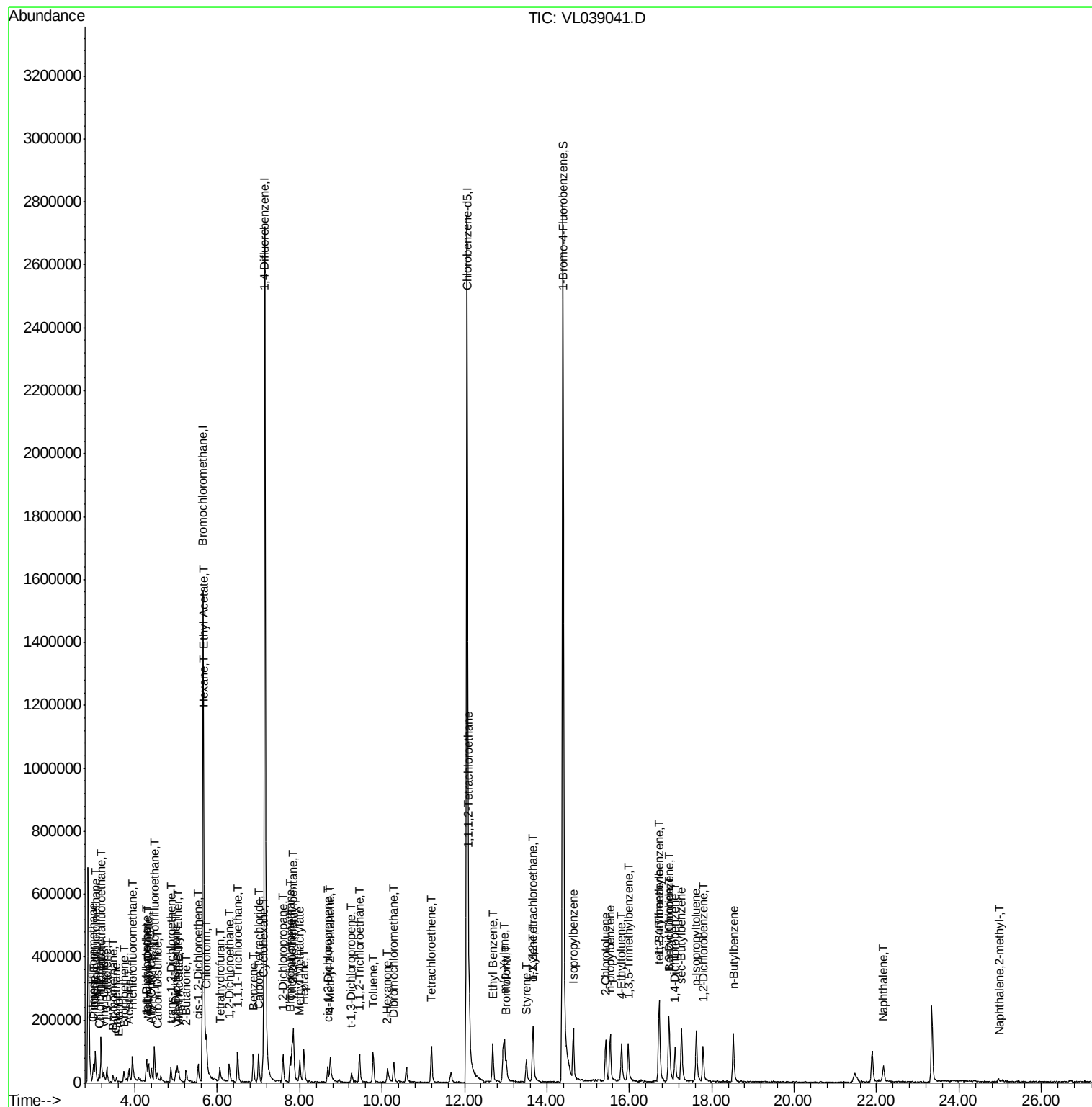
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.67	75	8813	0.090	ppbv	94
47) 1,1,2-Trichloroethane	9.45	97	20398	0.268	ppbv #	89
48) Dibromochloromethane	10.28	129	37102	0.300	ppbv	93
49) Bromoform	13.01	173	12873	0.136	ppbv #	13
50) 4-Methyl-2-Pentanone	8.74	43	35671	0.182	ppbv #	34
51) 2-Hexanone	10.13	43	18170	0.127	ppbv #	28
52) Tetrachloroethene	11.21	164	9331	0.139	ppbv	93
53) Toluene	9.78	91	75063	0.357	ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.10	131	21683	0.270	ppbv #	34
58) Ethyl Benzene	12.69	91	109240	0.414	ppbv	94
59) m/p-Xylene	12.97	91	69216	0.307	ppbv #	1
60) o-Xylene	13.66	91	44005	0.208	ppbv #	32
61) Styrene	13.50	104	24327	0.215	ppbv #	32
62) Isopropylbenzene	14.64	105	131296	0.424	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.65	83	32716	0.262	ppbv #	50
64) n-propylbenzene	15.52	120	8147	0.109	ppbv #	1
65) tert-Butylbenzene	16.71	119	31625	0.116	ppbv #	15
66) Benzyl Chloride	16.96	91	1960	0.055	ppbv #	70
67) sec-Butylbenzene	17.27	105	82499	0.213	ppbv #	60
69) p-Isopropyltoluene	17.63	119	124212	0.396	ppbv	94
70) n-Butylbenzene	18.53	91	129179	0.388	ppbv	99
71) 2-Chlorotoluene	15.43	91	104764	0.439	ppbv	99
72) 4-Ethyltoluene	15.82	105	46791	0.194	ppbv #	44
73) 1,3,5-Trimethylbenzene	15.97	105	88445	0.407	ppbv #	84
74) 1,2,4-Trimethylbenzene	16.73	105	98318	0.413	ppbv	95
75) 1,3-Dichlorobenzene	16.97	146	55673	0.427	ppbv	93
76) 1,4-Dichlorobenzene	17.11	146	42334	0.330	ppbv	73
77) 1,2-Dichlorobenzene	17.79	146	29057	0.225	ppbv #	21
79) Naphthalene	22.16	128	8209	0.042	ppbv #	93
80) Naphthalene,2-methyl-	24.98	142	6571	0.112	ppbv #	78

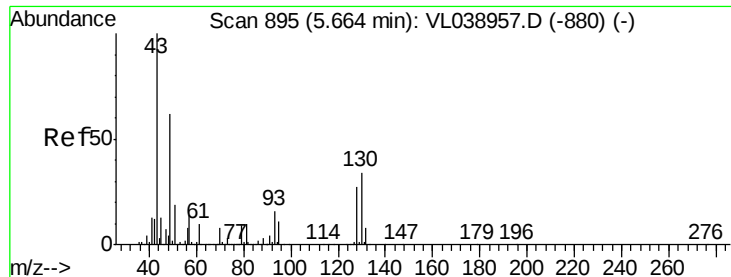
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. 0.4 MDL

Lab File: ClientSampleId :

Acq: 13 May 2022 17:35

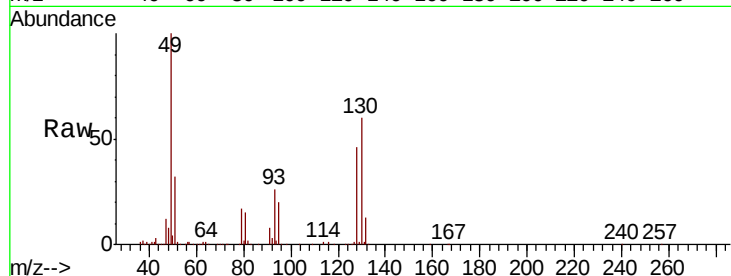
Tot Ion: 49 Resp: 888018

Ion Ratio Lower Upper

49 100

128 47.4 23.3 69.8

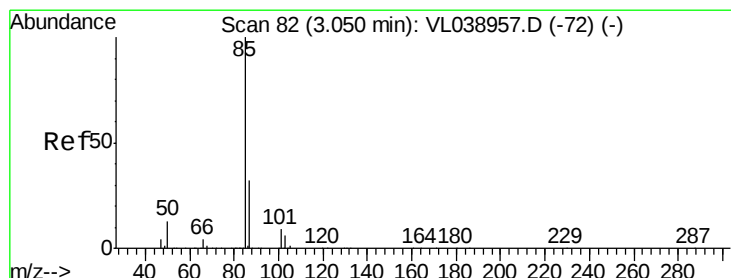
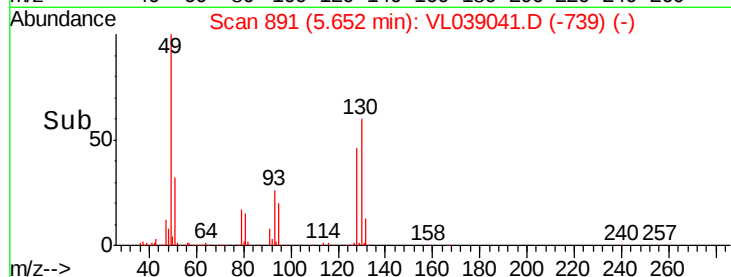
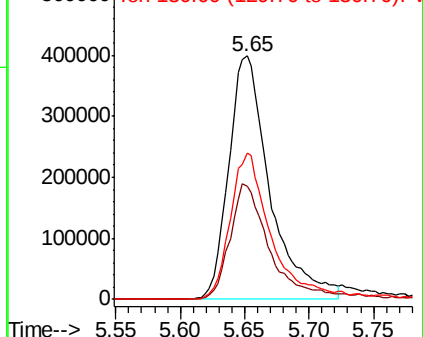
130 62.3 29.8 89.3



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: 0.562 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL039041.D

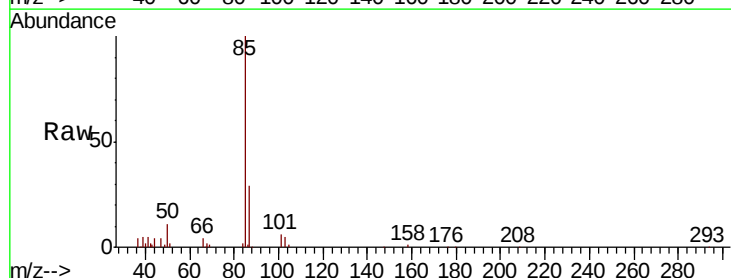
Acq: 13 May 2022 17:35

Tgt Ion: 85 Resp: 78173

Ion Ratio Lower Upper

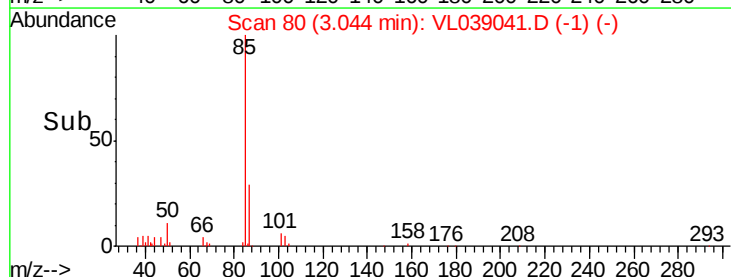
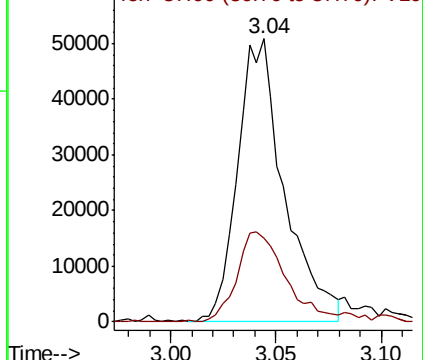
85 100

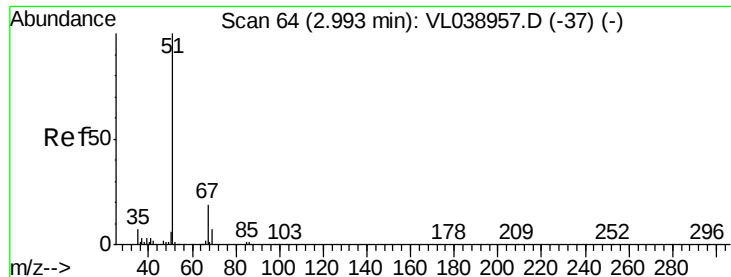
87 28.7 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

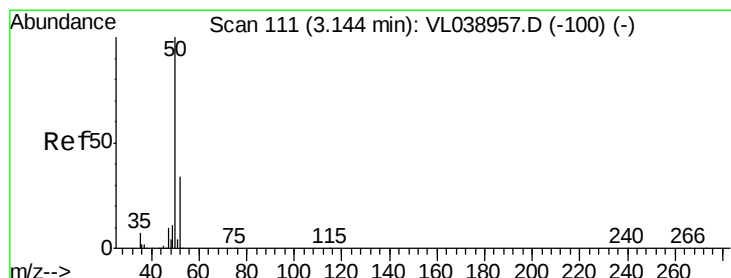
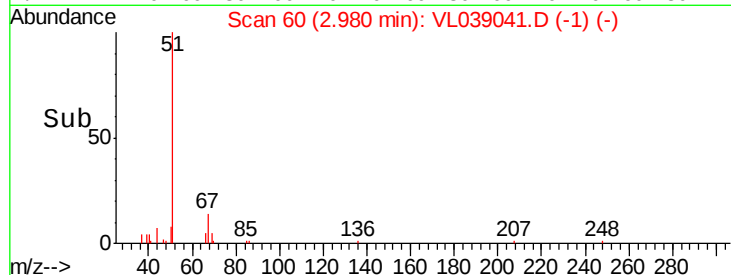
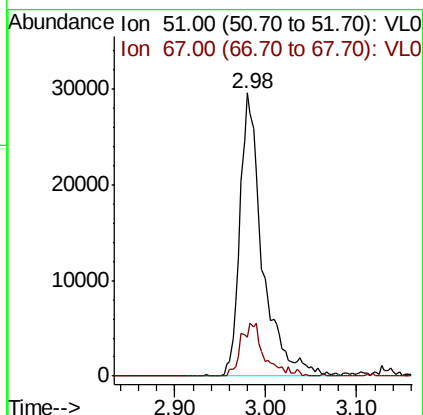
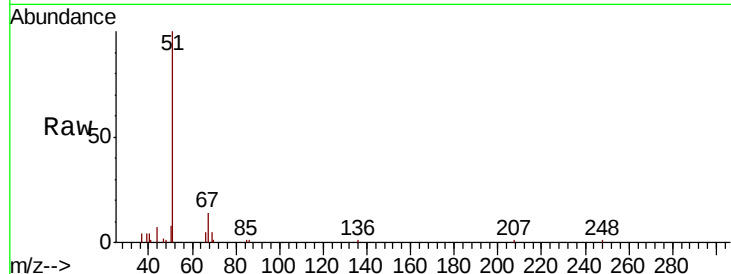
Ion 87.00 (86.70 to 87.70): VL0





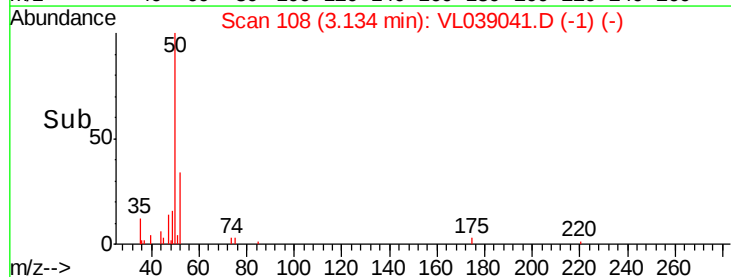
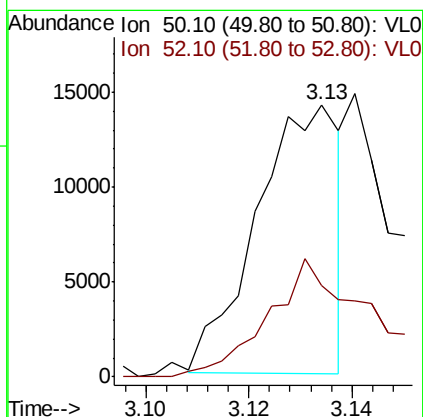
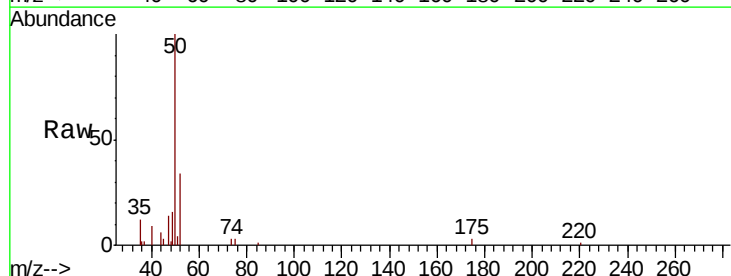
#3
 Chlorodifluoromethane
 Concen: 0.464 ppbv
 RT: 2.98
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 May 2022 17:35

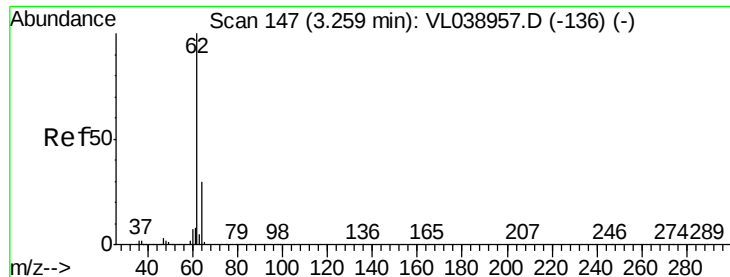
Tot Ion: 51 Resp: 51116
 Ion Ratio Lower Upper
 51 100
 67 19.6 15.8 23.8



#4
 Chloromethane
 Concen: 0.285 ppbv
 RT: 3.13 min Scan# 108
 Delta R.T. -0.01 min
 Lab File: VL039041.D
 Acq: 13 May 2022 17:35

Tgt Ion: 50 Resp: 15748
 Ion Ratio Lower Upper
 50 100
 52 31.2 27.3 40.9





#5

Vinyl Chloride

Concen: 0.253 ppbv

RT: 3.25 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

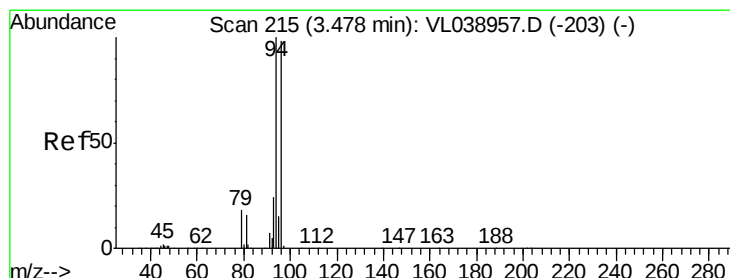
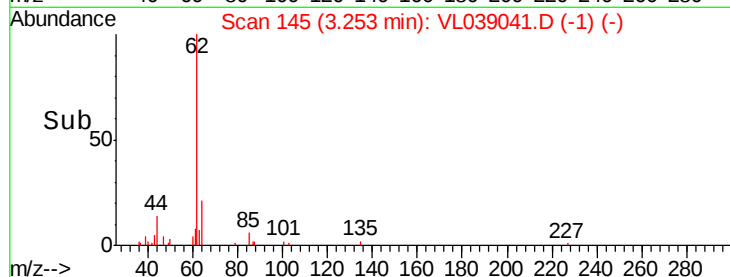
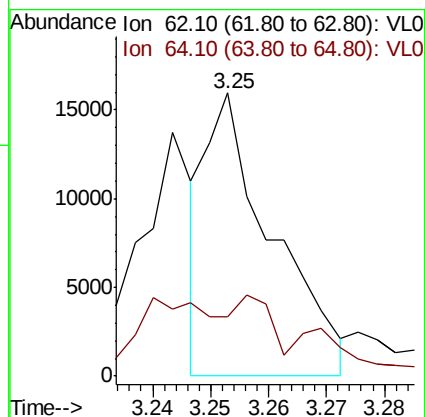
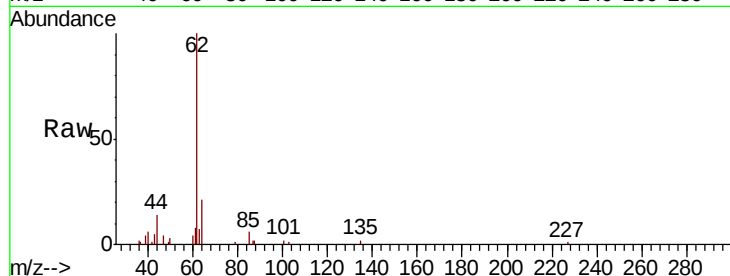
Acq: 13 May 2022 17:35

Tot Ion: 62 Resp: 12749

Ion Ratio Lower Upper

62 100

64 12.9 24.2 36.4#



#6

Bromomethane

Concen: 0.298 ppbv

RT: 3.46 min Scan# 210

Delta R.T. -0.02 min

Lab File: VL039041.D

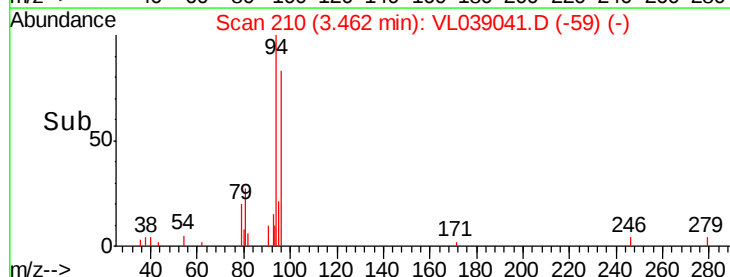
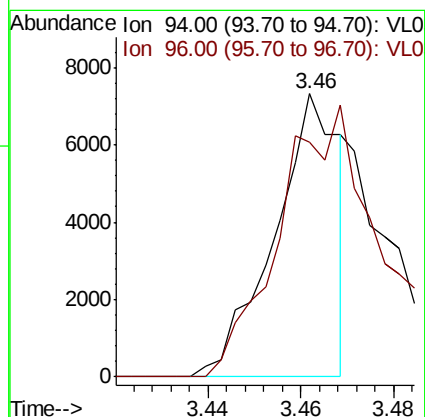
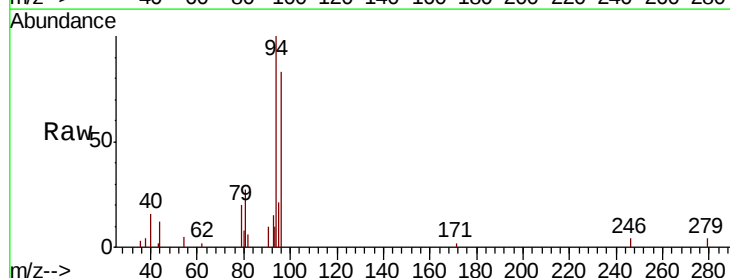
Acq: 13 May 2022 17:35

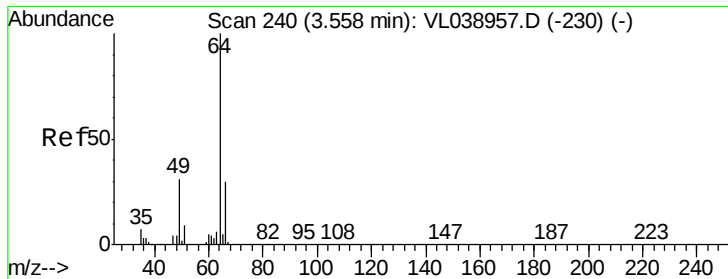
Tgt Ion: 94 Resp: 7092

Ion Ratio Lower Upper

94 100

96 82.8 78.1 117.1





#7

Chloroethane

Concen: 0.488 ppbv

RT: 3.55 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

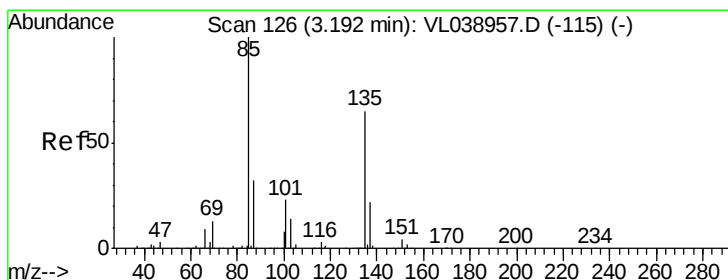
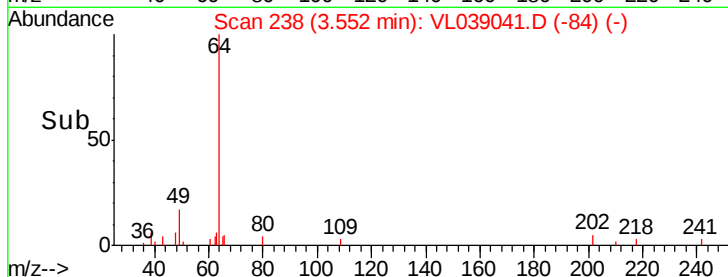
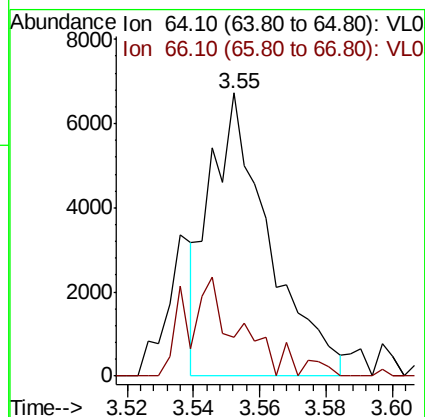
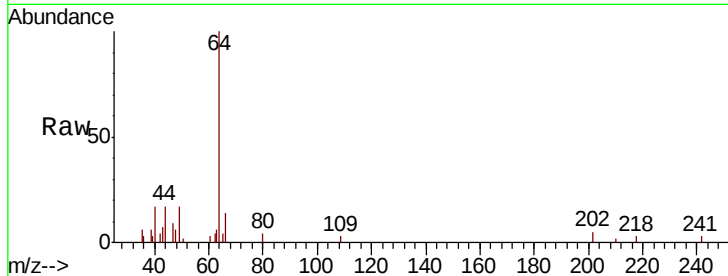
Acq: 13 May 2022 17:35

Tot Ion: 64 Resp: 8239

Ion Ratio Lower Upper

64 100

66 13.7 23.8 35.8#



#8

Dichlorotetrafluoroethane

Concen: 0.469 ppbv

RT: 3.18 min Scan# 122

Delta R.T. -0.01 min

Lab File: VL039041.D

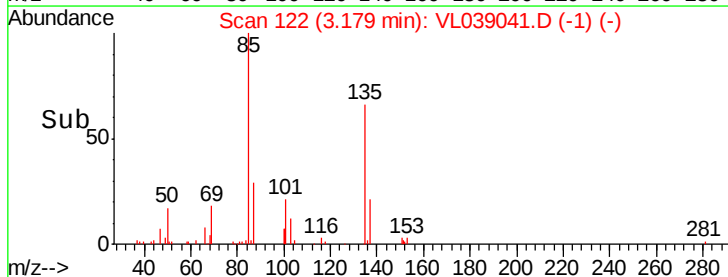
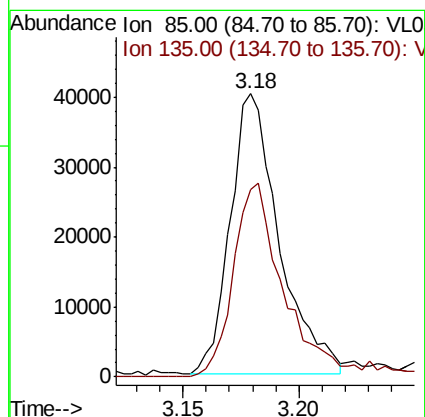
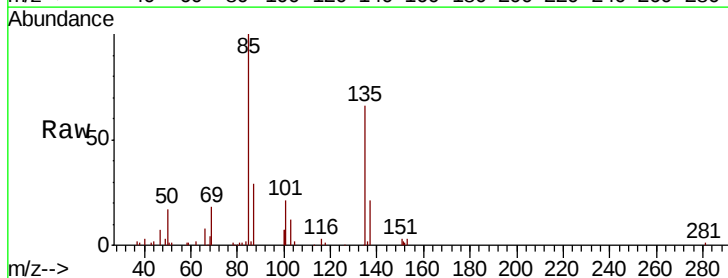
Acq: 13 May 2022 17:35

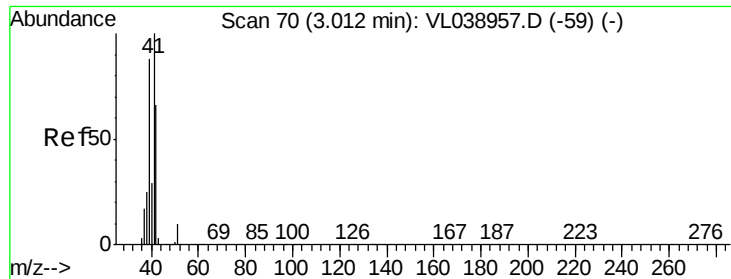
Tgt Ion: 85 Resp: 59095

Ion Ratio Lower Upper

85 100

135 73.9 53.6 80.4





#9

Propene

Concen: 0.511 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

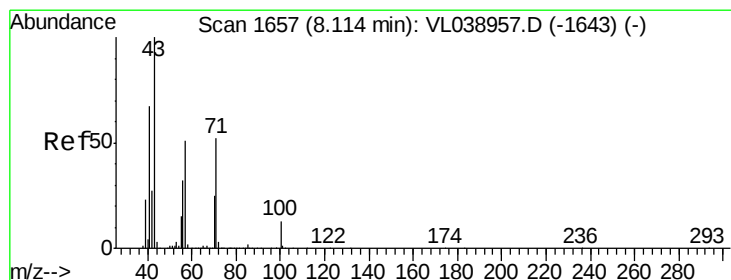
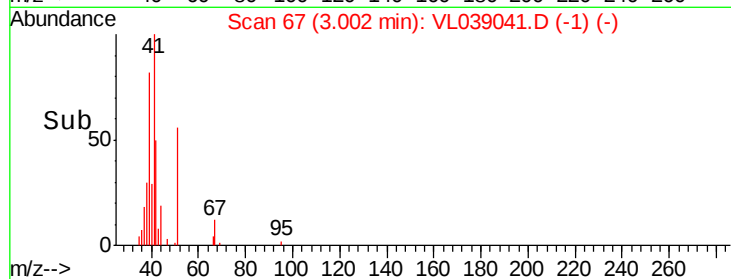
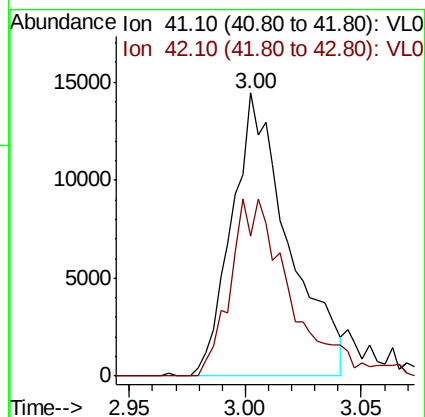
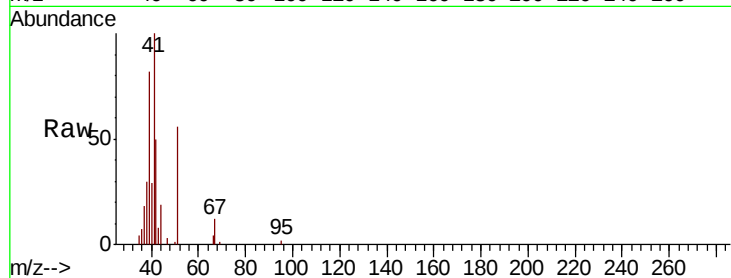
Acq: 13 May 2022 17:35

Tot Ion: 41 Resp: 24579

Ion Ratio Lower Upper

41 100

42 66.7 58.3 87.5



#10

Heptane

Concen: 0.385 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. -0.01 min

Lab File: VL039041.D

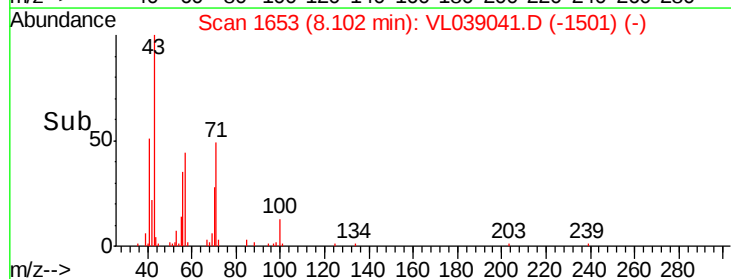
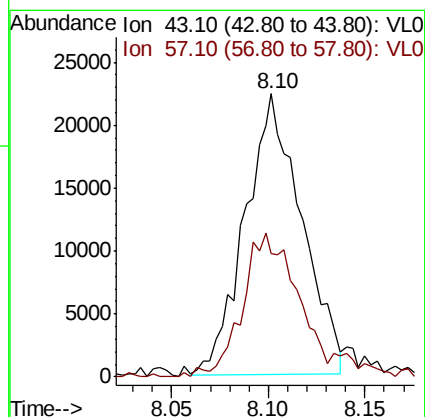
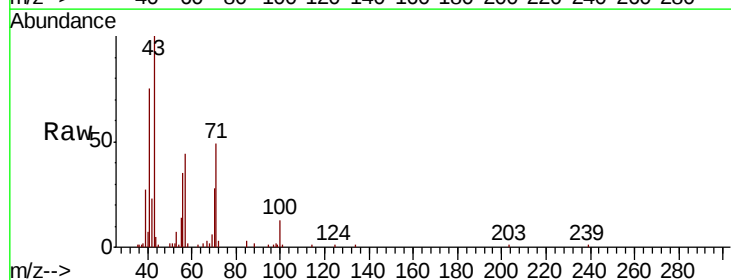
Acq: 13 May 2022 17:35

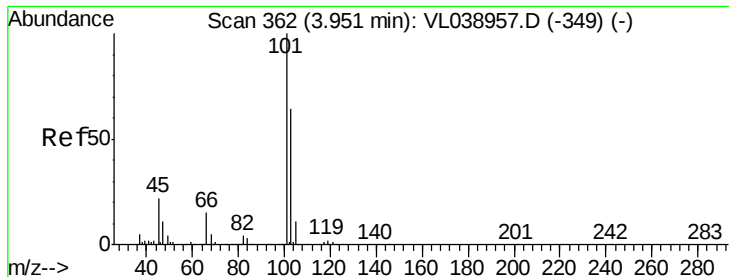
Tgt Ion: 43 Resp: 45402

Ion Ratio Lower Upper

43 100

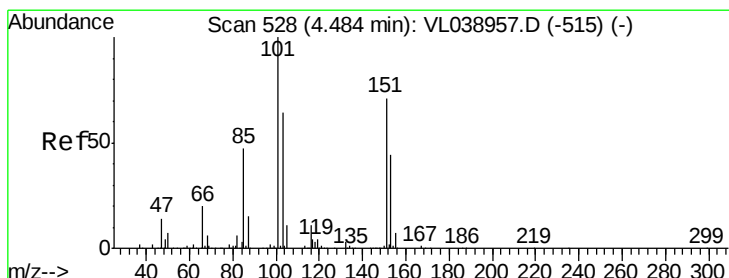
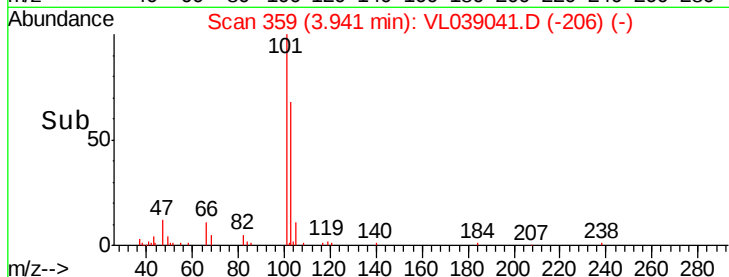
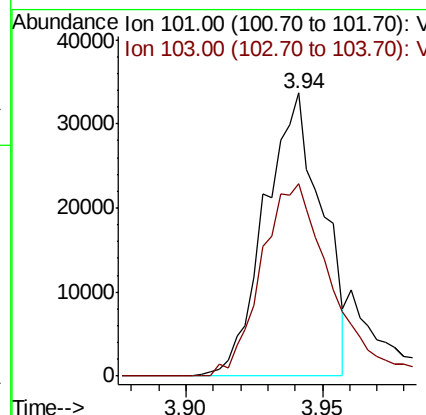
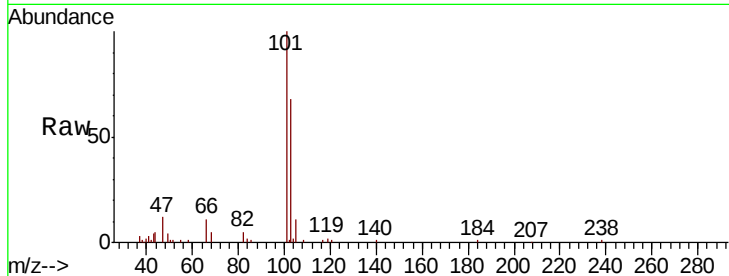
57 54.0 40.5 60.7





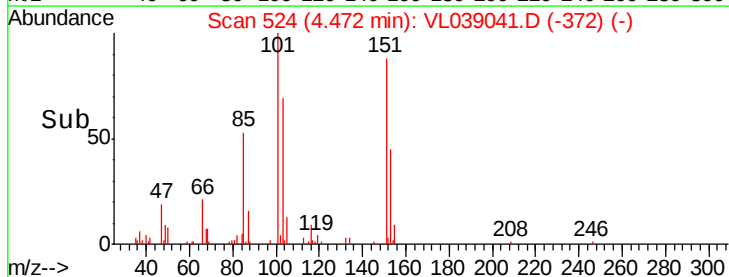
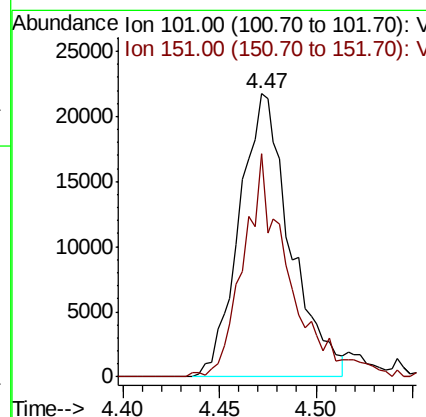
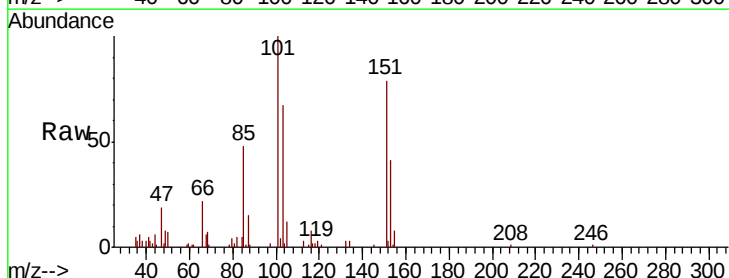
#11
 Trichlorofluoromethane
 Concen: 0.408 ppbv
 RT: 3.94
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 May 2022 17:35

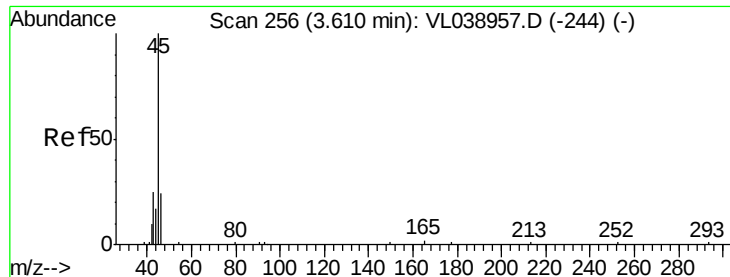
Tot Ion:101 Resp: 48687
 Ion Ratio Lower Upper
 101 100
 103 67.8 51.5 77.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.485 ppbv
 RT: 4.47 min Scan# 524
 Delta R.T. -0.01 min
 Lab File: VL039041.D
 Acq: 13 May 2022 17:35

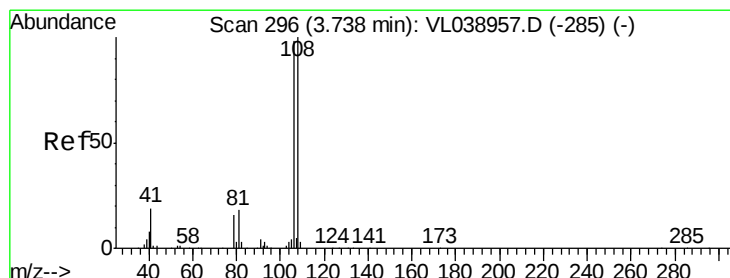
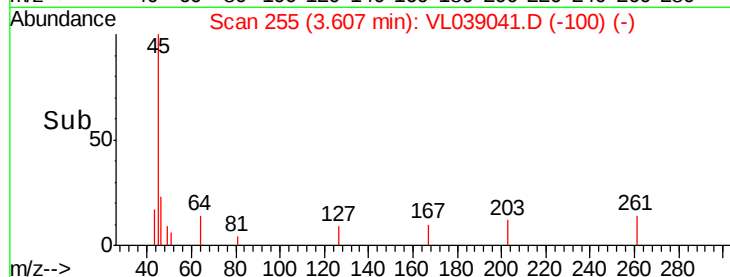
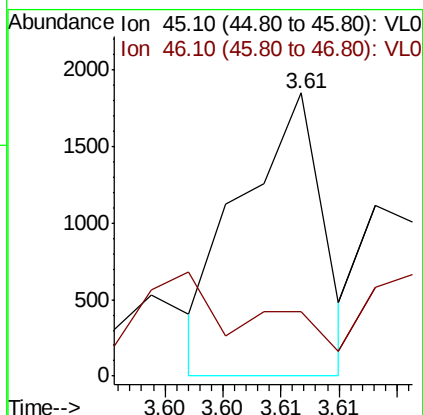
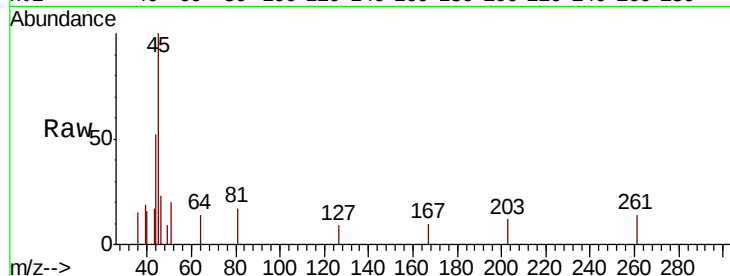
Tgt Ion:101 Resp: 39924
 Ion Ratio Lower Upper
 101 100
 151 70.5 55.4 83.0





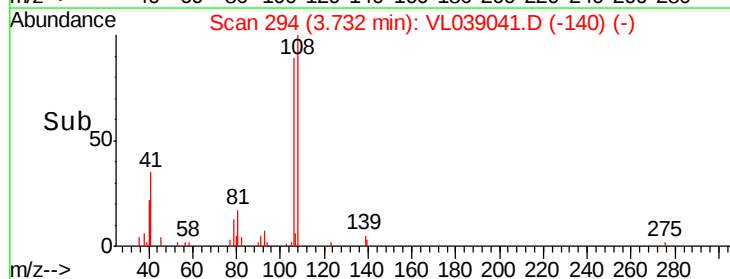
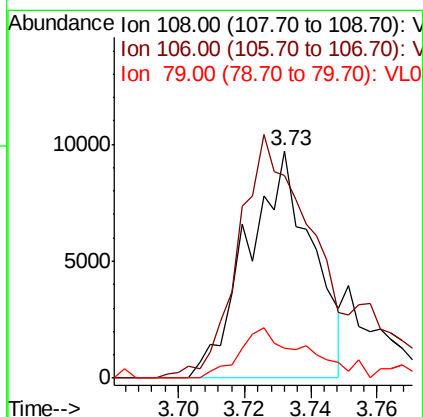
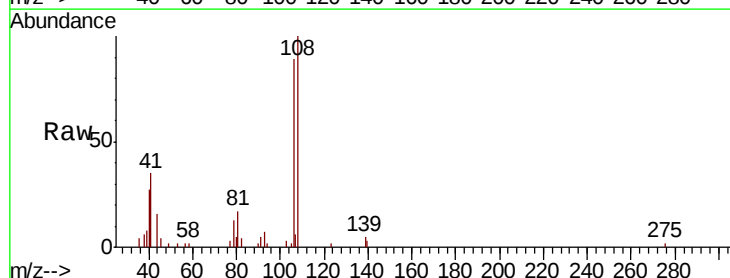
#13
Ethanol
Concen: 0.267 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 13 May 2022 17:35

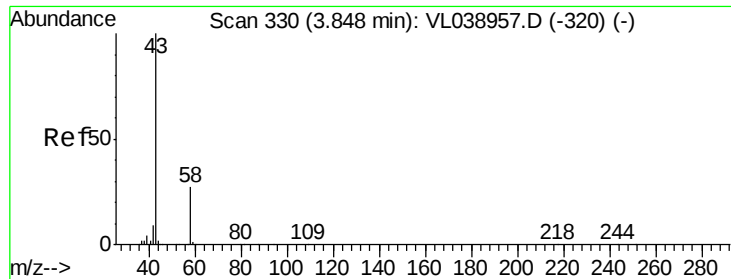
Tot Ion: 45 Resp: 908
Ion Ratio Lower Upper
45 100
46 0.0 18.0 72.2#



#14
Bromoethene
Concen: 0.390 ppbv
RT: 3.73 min Scan# 294
Delta R.T. -0.01 min
Lab File: VL039041.D
Acq: 13 May 2022 17:35

Tgt Ion: 108 Resp: 13213
Ion Ratio Lower Upper
108 100
106 155.3 90.3 135.5#
79 27.6 14.9 22.3#





#15

Acetone

Concen: 0.424 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

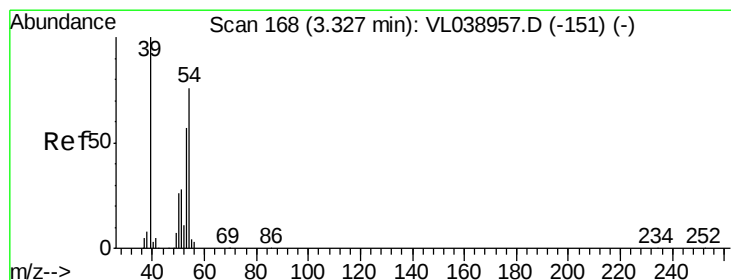
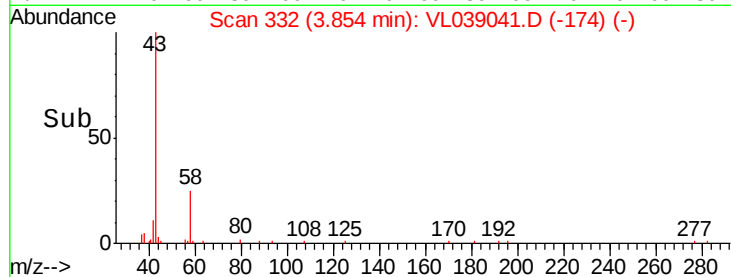
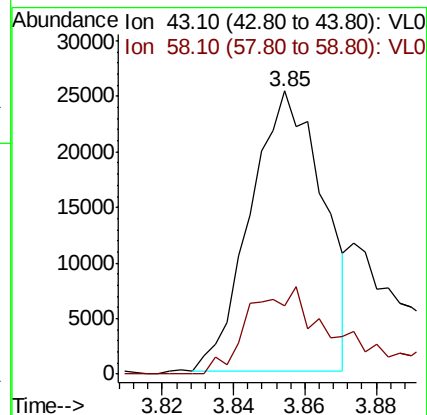
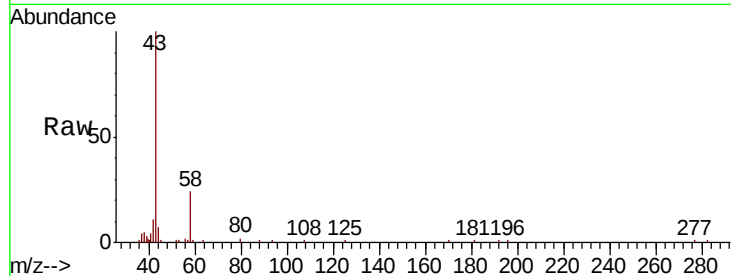
Acq: 13 May 2022 17:35

Tot Ion: 43 Resp: 35506

Ion Ratio Lower Upper

43 100

58 44.4 21.3 31.9#



#16

1,3-Butadiene

Concen: 0.397 ppbv

RT: 3.32 min Scan# 165

Delta R.T. -0.01 min

Lab File: VL039041.D

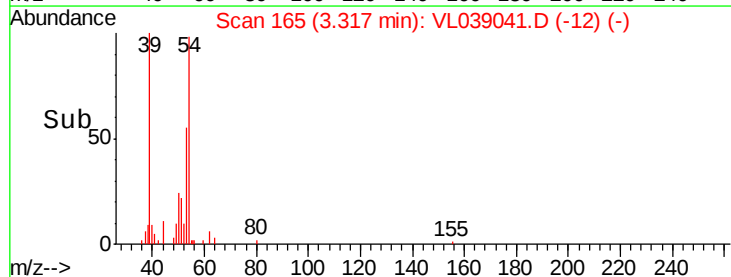
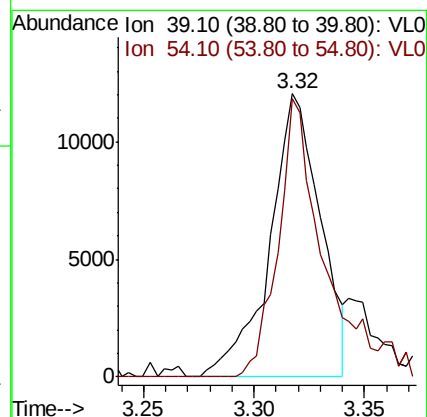
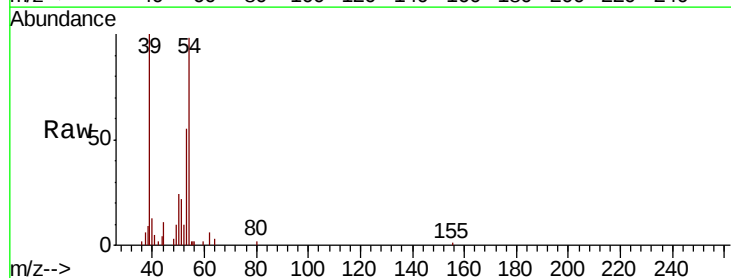
Acq: 13 May 2022 17:35

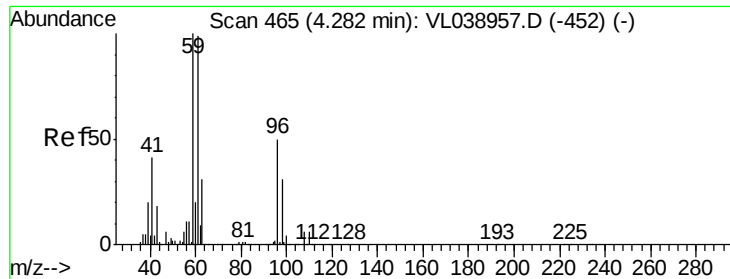
Tgt Ion: 39 Resp: 19090

Ion Ratio Lower Upper

39 100

54 96.1 65.2 97.8





#17

tert-Butyl alcohol

Concen: 0.089 ppbv

RT: 4.28 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

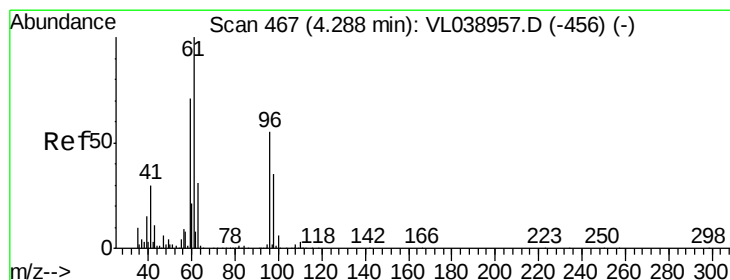
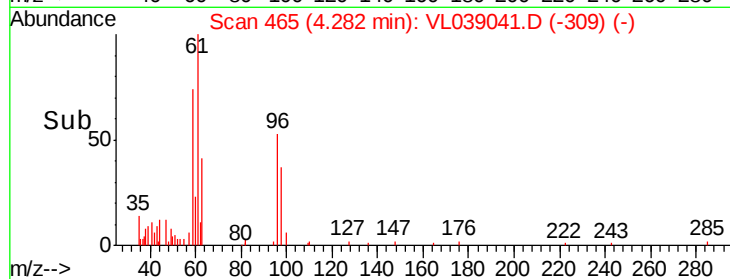
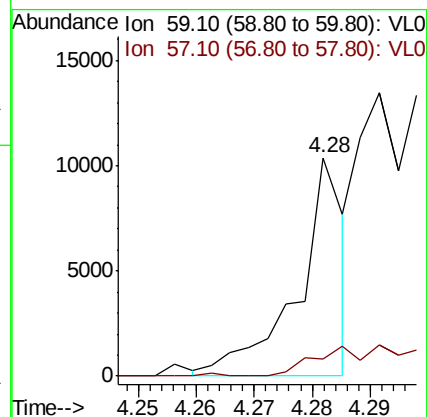
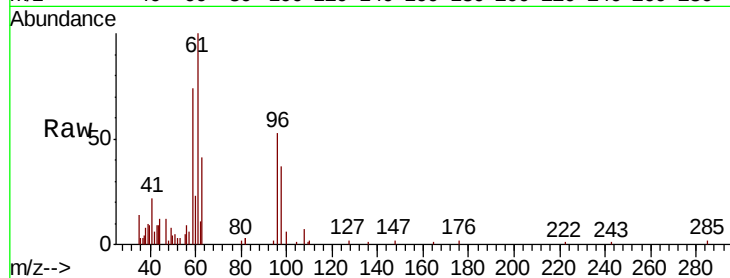
Acq: 13 May 2022 17:35

Tot Ion: 59 Resp: 5742

Ion Ratio Lower Upper

59 100

57 0.0 9.2 13.8#



#18

1,1-Dichloroethene

Concen: 0.471 ppbv

RT: 4.28 min Scan# 464

Delta R.T. -0.01 min

Lab File: VL039041.D

Acq: 13 May 2022 17:35

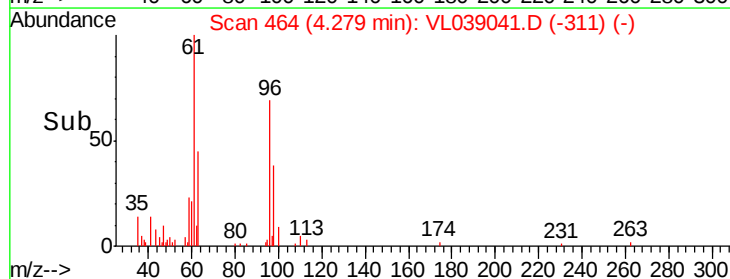
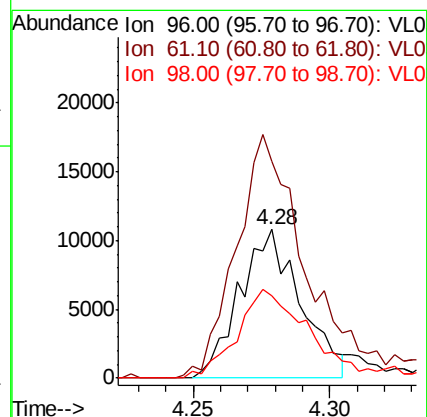
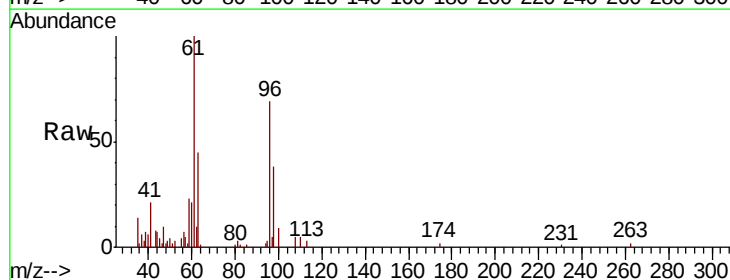
Tgt Ion: 96 Resp: 16667

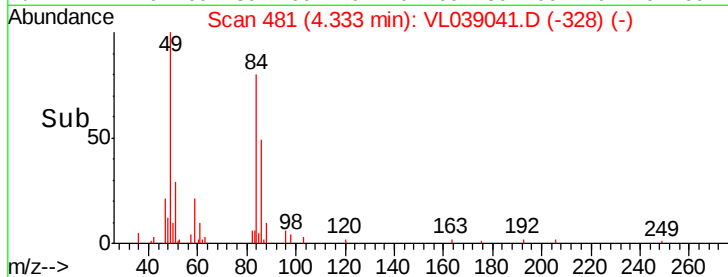
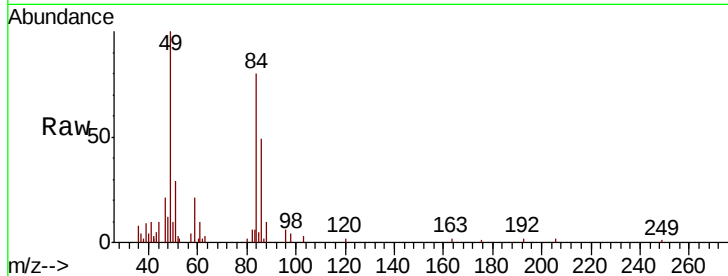
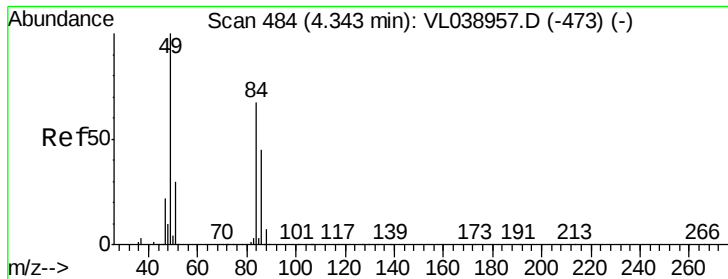
Ion Ratio Lower Upper

96 100

61 137.7 146.3 219.5#

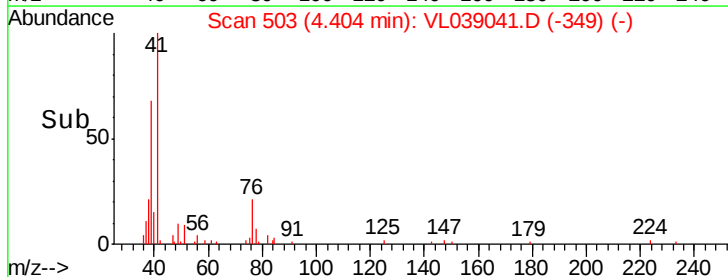
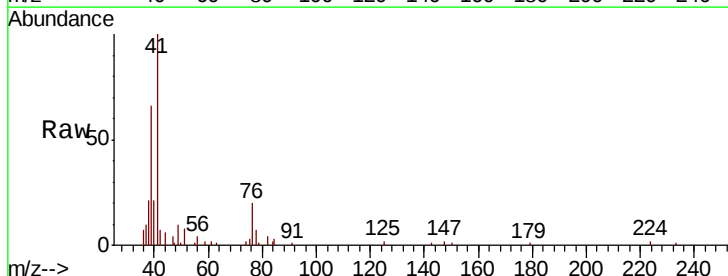
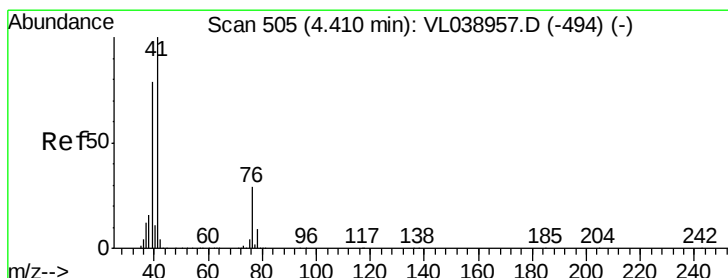
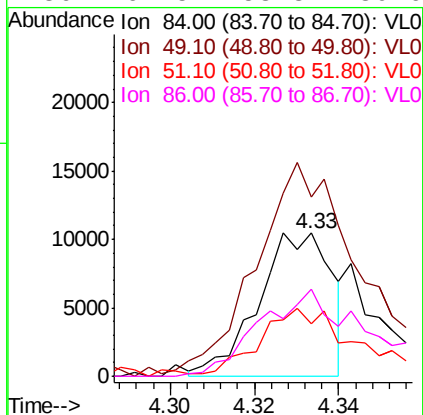
98 50.8 50.6 75.8





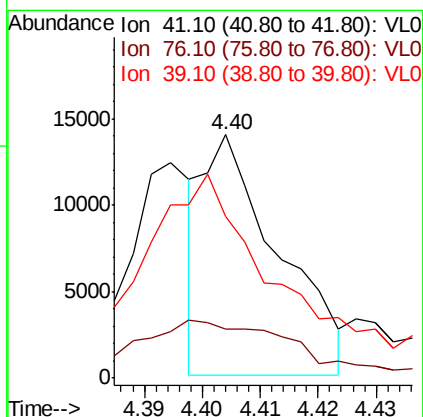
#20
Methvlene Chloride
Concen: 0.399 ppbv
RT: 4.33
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 13 May 2022 17:35

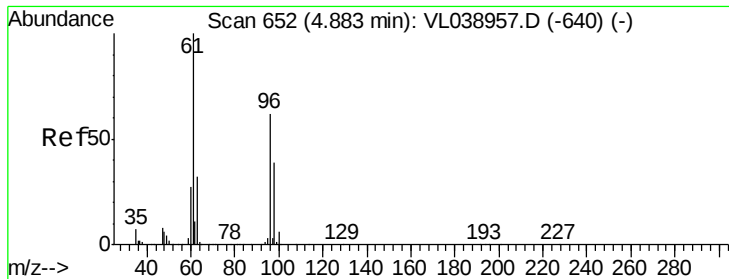
Tot Ion: 84 Resp: 12594
Ion Ratio Lower Upper
84 100
49 118.3 119.9 179.9#
51 36.2 35.7 53.5
86 61.5 53.8 80.6



#21
Allyl Chloride
Concen: 0.219 ppbv
RT: 4.40 min Scan# 503
Delta R.T. -0.01 min
Lab File: VL039041.D
Acq: 13 May 2022 17:35

Tgt Ion: 41 Resp: 12500
Ion Ratio Lower Upper
41 100
76 56.1 24.2 36.4#
39 207.6 63.8 95.8#





#22

trans-1,2-Dichloroethene

Concen: 0.115 ppbv

RT: 4.88 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 13 May 2022 17:35

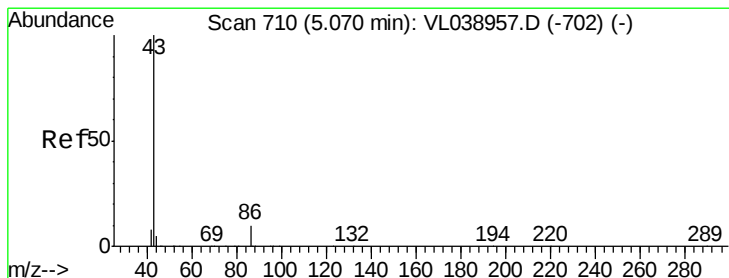
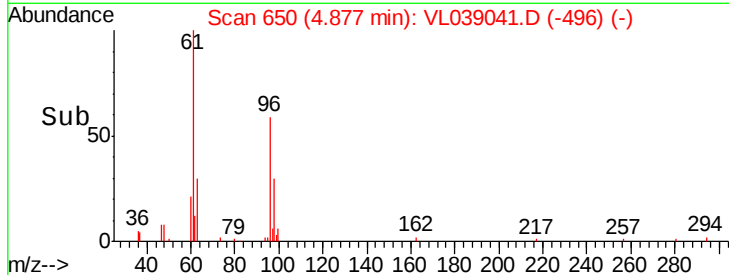
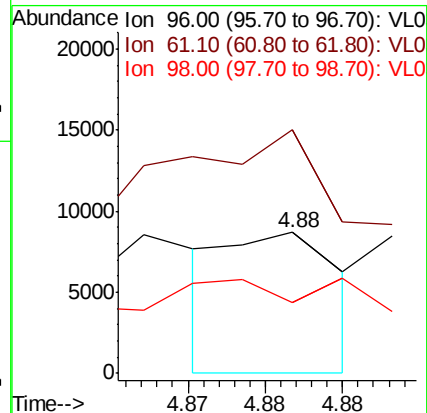
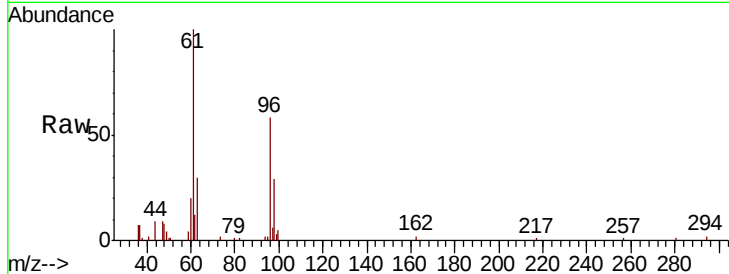
Tot Ion: 96 Resp: 4406

Ion Ratio Lower Upper

96 100

61 230.1 128.2 192.2#

98 0.0 50.1 75.1#



#23

Vinyl Acetate

Concen: 0.369 ppbv

RT: 5.06 min Scan# 708

Delta R.T. -0.01 min

Lab File: VL039041.D

Acq: 13 May 2022 17:35

Tgt Ion: 43 Resp: 24456

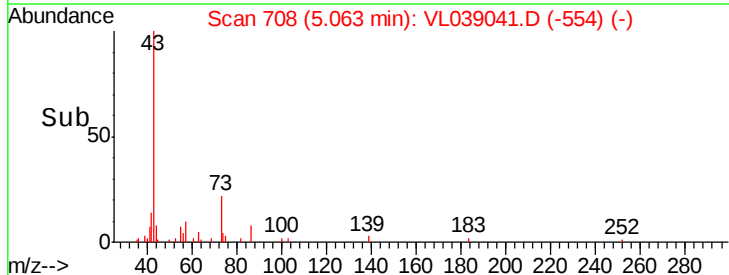
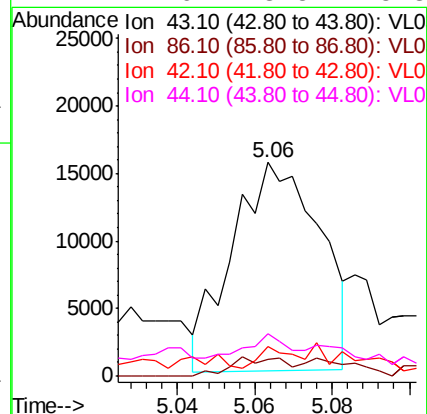
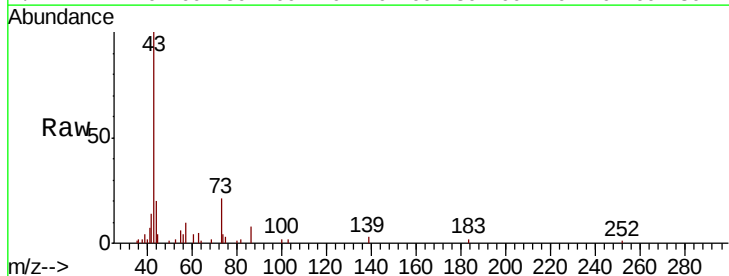
Ion Ratio Lower Upper

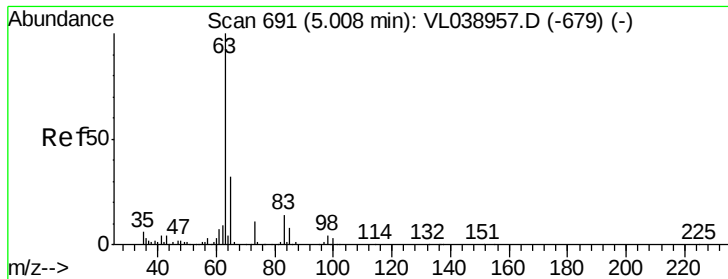
43 100

86 9.9 6.6 9.8#

42 5.8 8.1 12.1#

44 14.6 3.5 5.3#





#24

1,1-Dichloroethane

Concen: 0.231 ppbv

RT: 5.00 Instrument:

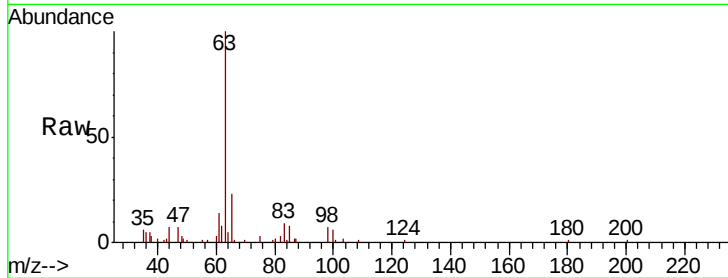
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

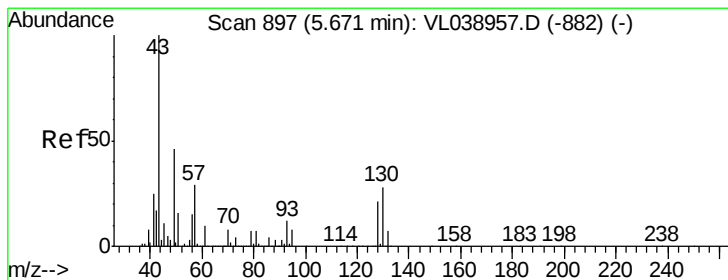
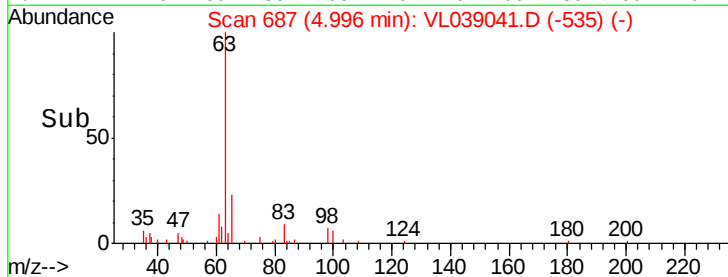
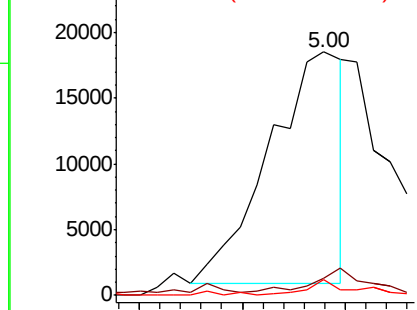
Acq: 13 May 2022 17:35

Tot Ion: 63 Resp: 17626

Ion	Ratio	Lower	Upper
63	100		
98	6.1	2.1	6.2
100	7.8	1.4	4.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.426 ppbv

RT: 5.67 min Scan# 897

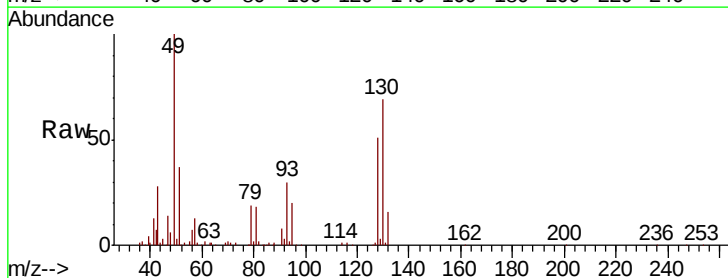
Delta R.T. 0.00 min

Lab File: VL039041.D

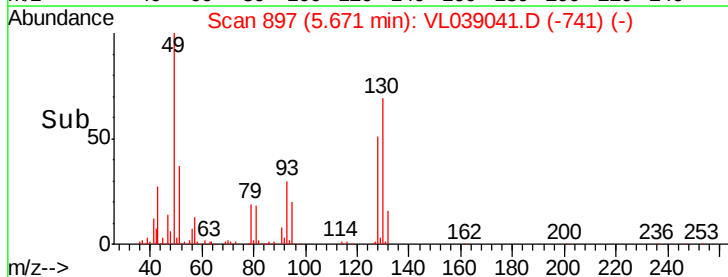
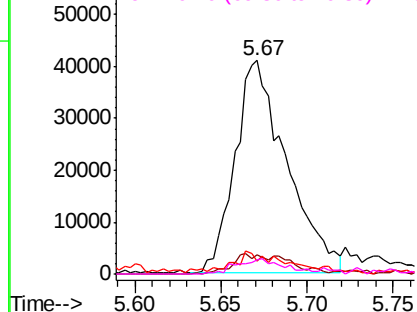
Acq: 13 May 2022 17:35

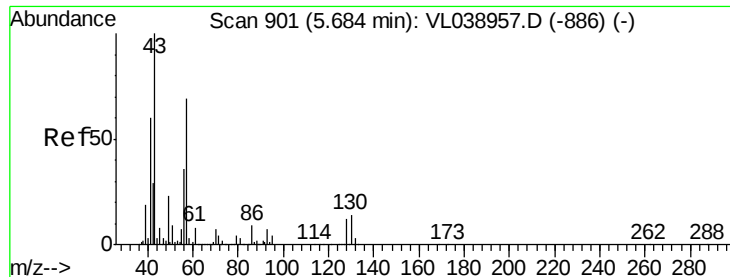
Tgt Ion: 43 Resp: 85434

Ion	Ratio	Lower	Upper
43	100		
45	11.3	8.1	12.1
61	12.2	7.8	11.6#
70	7.2	5.6	8.4



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: 0.210 ppbv

RT: 5.67

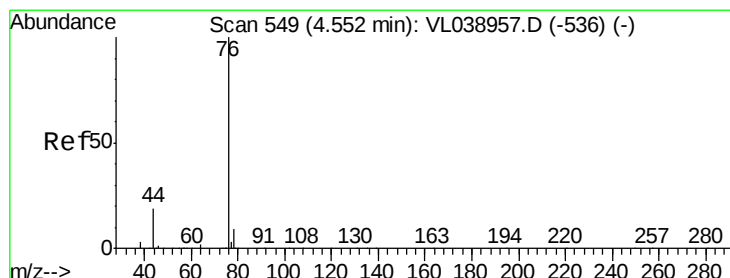
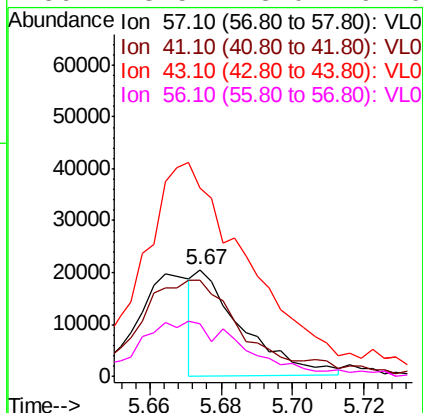
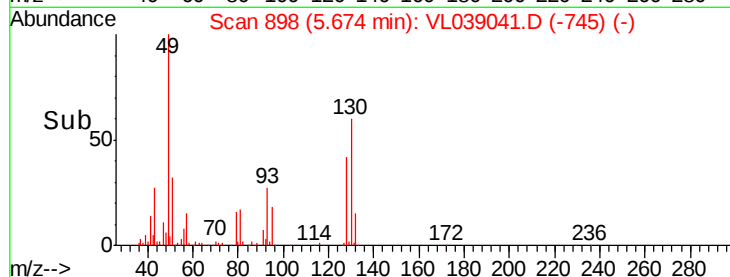
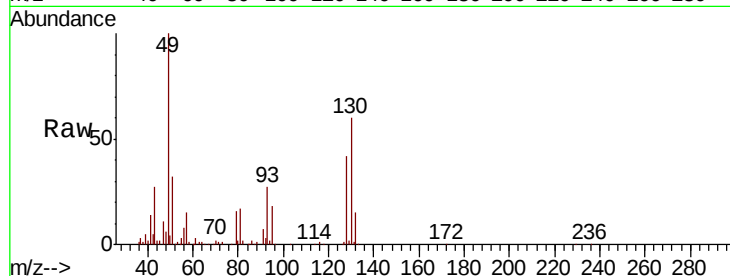
Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 May 2022 17:35

Tot Ion: 57 Resp: 18663

Ion	Ratio	Lower	Upper
57	100		
41	215.4	75.2	112.8#
43	512.2	190.8	286.2#
56	123.5	43.0	64.6#



#27

Carbon Disulfide

Concen: 0.274 ppbv

RT: 4.54 min Scan# 546

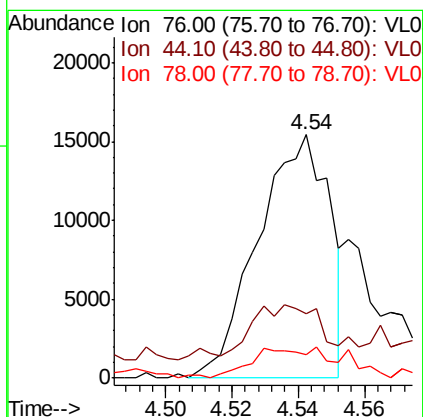
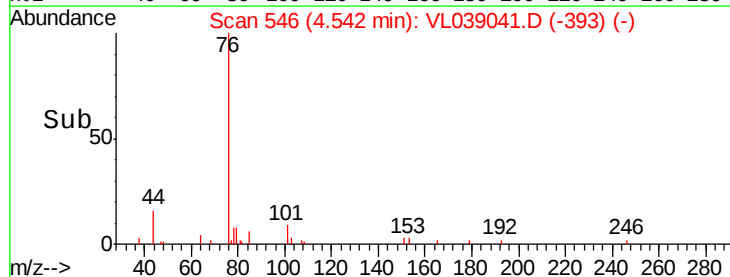
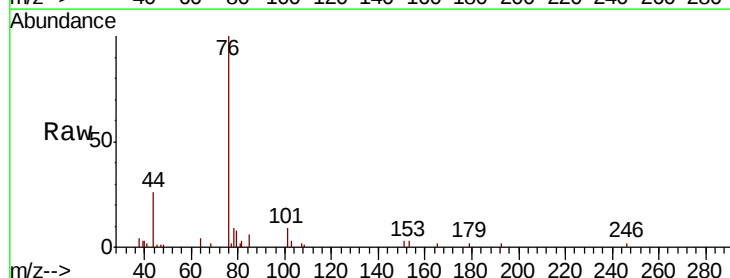
Delta R.T. -0.01 min

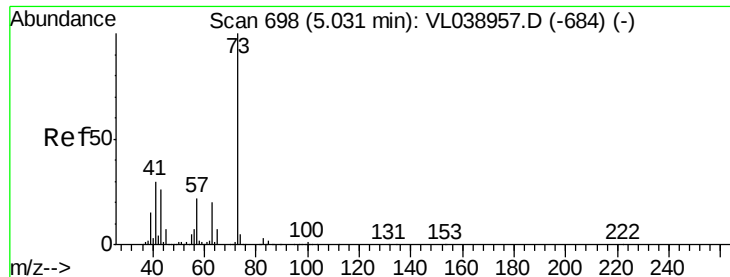
Lab File: VL039041.D

Acq: 13 May 2022 17:35

Tgt Ion: 76 Resp: 23161

Ion	Ratio	Lower	Upper
76	100		
44	46.5	15.3	22.9#
78	17.0	8.2	12.2#





#28

Methyl tert-Butyl Ether

Concen: 0.487 ppbv

RT: 5.03 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 0.4 MDL

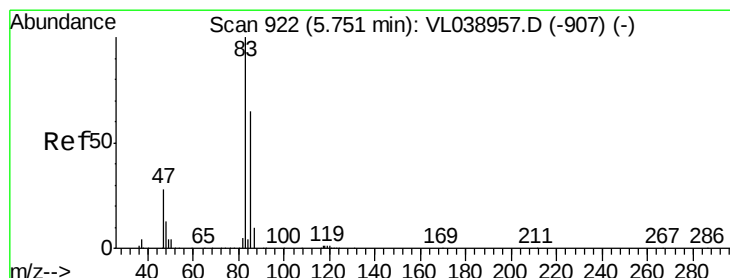
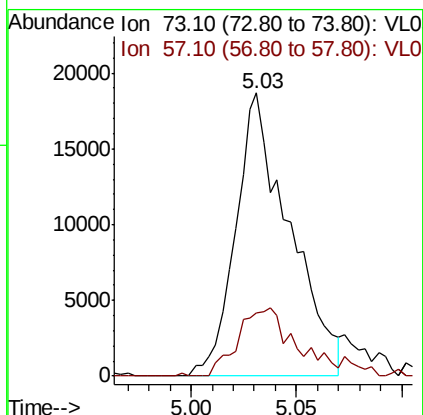
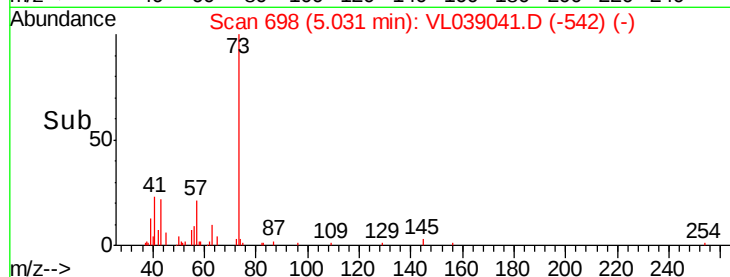
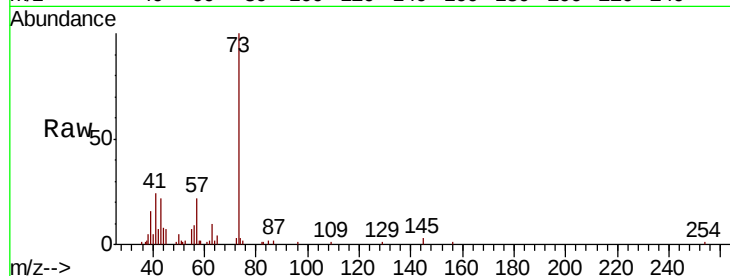
Acq: 13 May 2022 17:35

Tot Ion: 73 Resp: 33025

Ion Ratio Lower Upper

73 100

57 27.9 18.8 28.2



#29

Chloroform

Concen: 0.414 ppbv

RT: 5.74 min Scan# 917

Delta R.T. -0.02 min

Lab File: VL039041.D

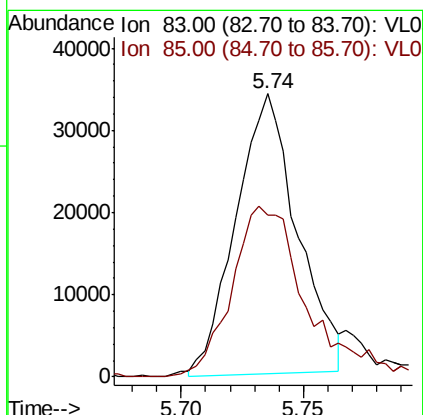
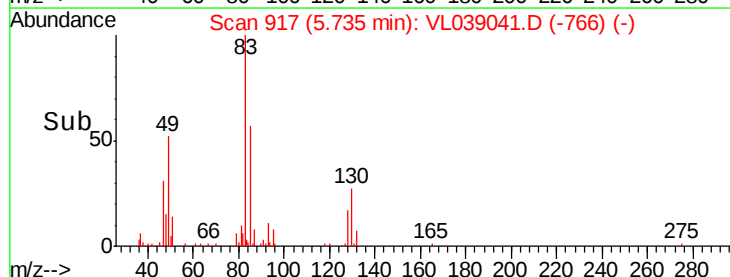
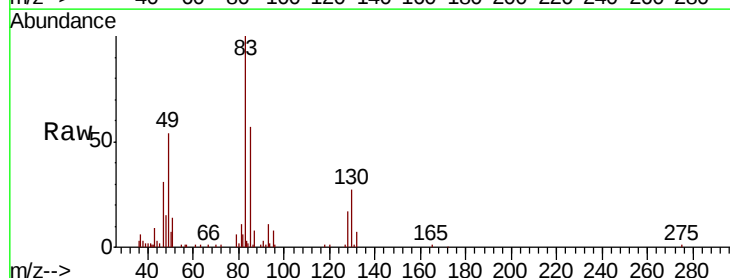
Acq: 13 May 2022 17:35

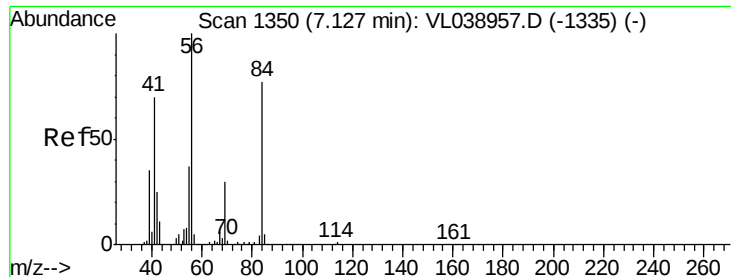
Tgt Ion: 83 Resp: 59726

Ion Ratio Lower Upper

83 100

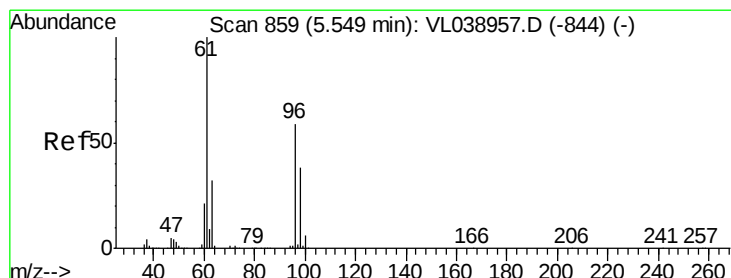
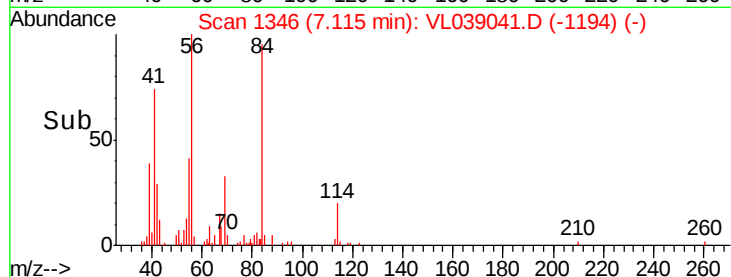
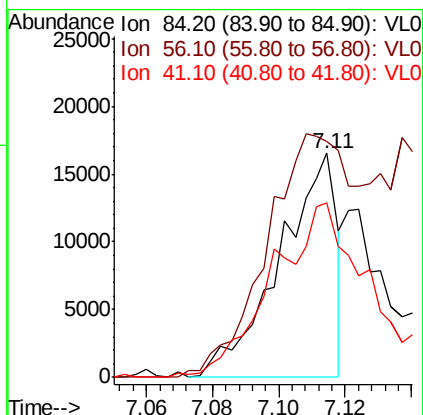
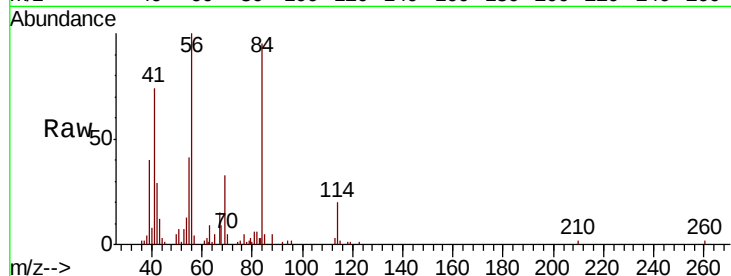
85 54.2 51.8 77.6





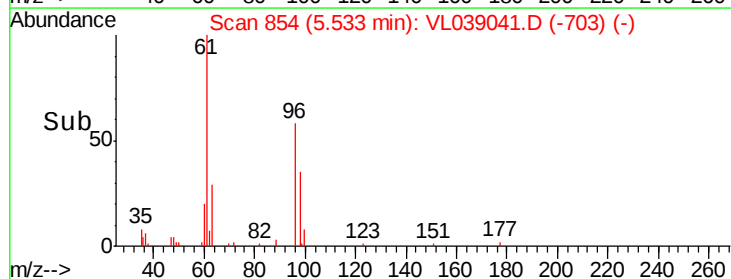
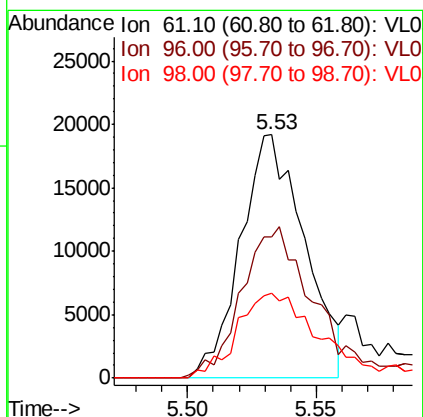
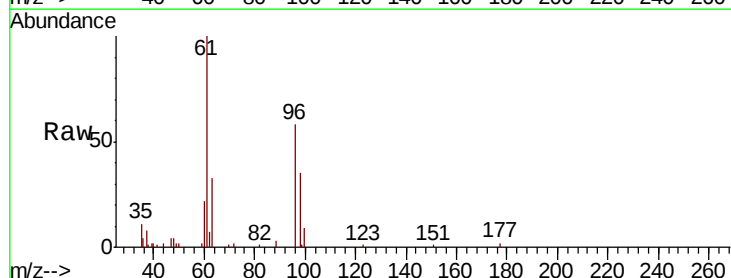
#30
Cvclohexane
Concen: 0.266 ppbv
RT: 7.11
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 13 May 2022 17:35

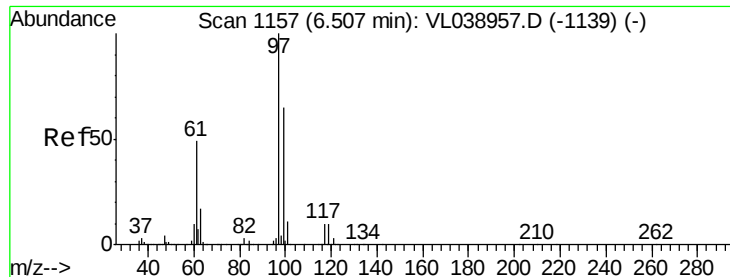
Tot Ion: 84 Resp: 19827
Ion Ratio Lower Upper
84 100
56 205.3 115.3 172.9#
41 134.8 72.0 108.0#



#31
cis-1,2-Dichloroethene
Concen: 0.366 ppbv
RT: 5.53 min Scan# 854
Delta R.T. -0.02 min
Lab File: VL039041.D
Acq: 13 May 2022 17:35

Tgt Ion: 61 Resp: 33240
Ion Ratio Lower Upper
61 100
96 57.2 47.4 71.0
98 34.6 30.6 45.8





#32

1,1,1-Trichloroethane

Concen: 0.403 ppbv

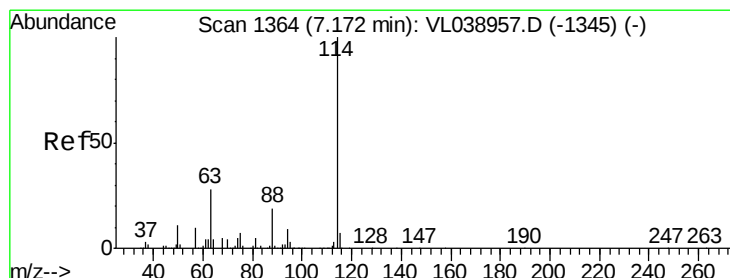
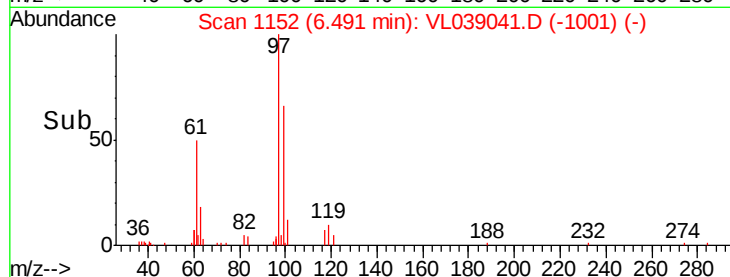
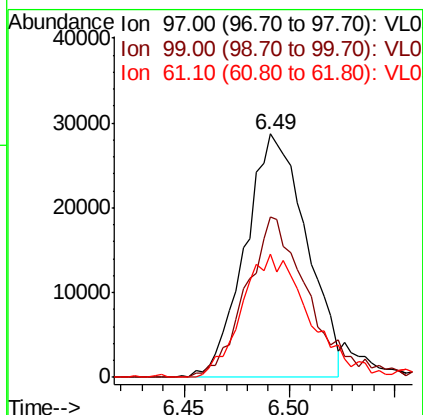
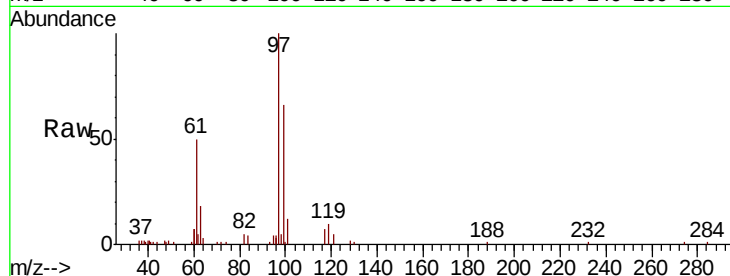
RT: 6.49 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 May 2022 17:35

Tot Ion:	97	Resp:	58097
Ion	Ratio	Lower	Upper
97	100		
99	68.1	51.9	77.9
61	57.4	40.9	61.3



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

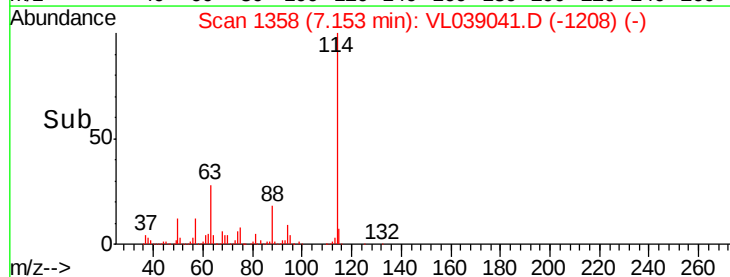
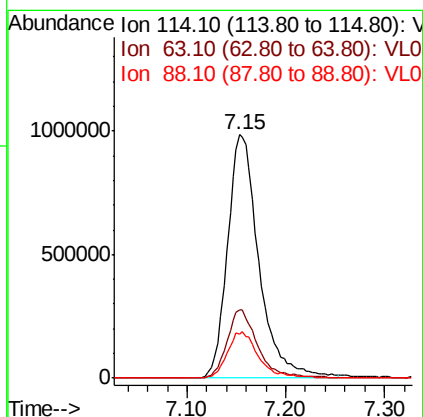
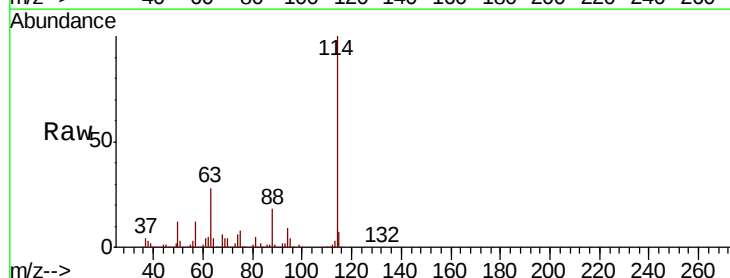
RT: 7.15 min Scan# 1358

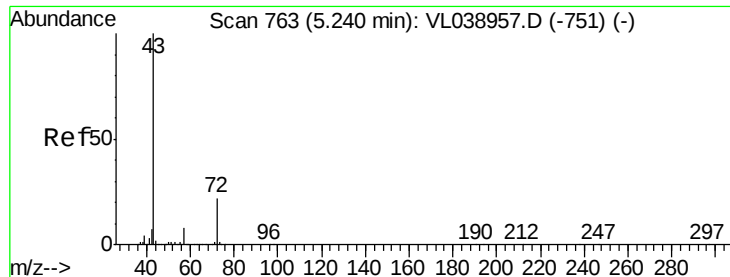
Delta R.T. -0.02 min

Lab File: VL039041.D

Acq: 13 May 2022 17:35

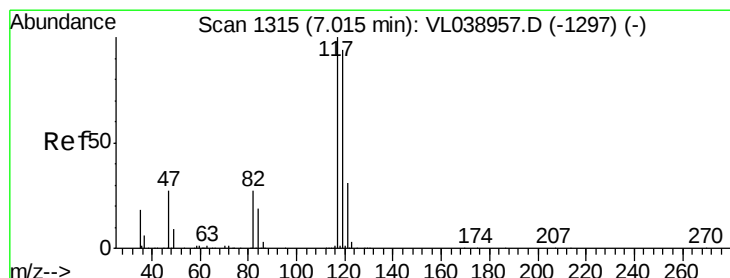
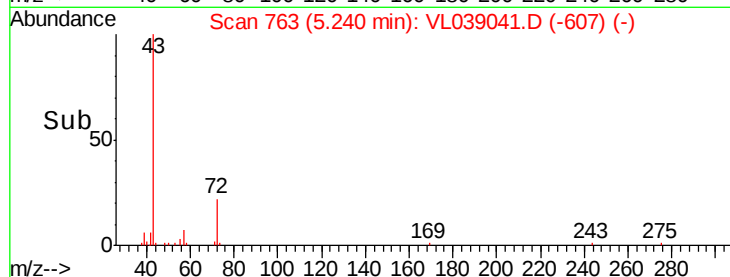
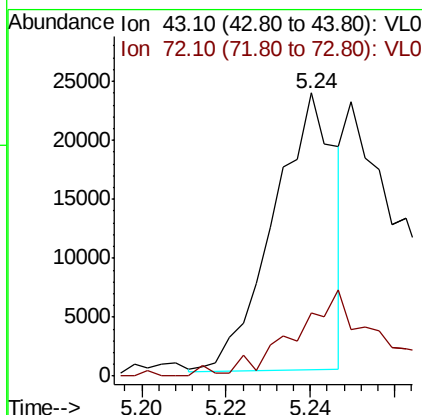
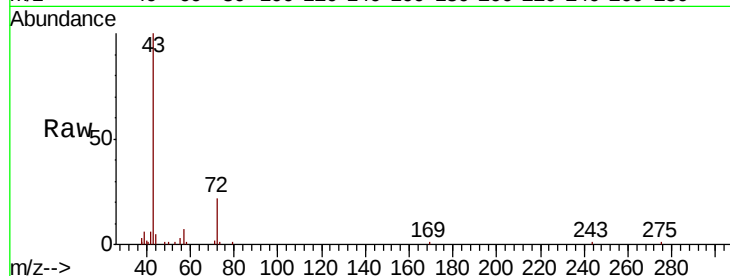
Tgt Ion:	114	Resp:	2194016
Ion	Ratio	Lower	Upper
114	100		
63	28.0	22.6	33.8
88	19.1	15.4	23.0





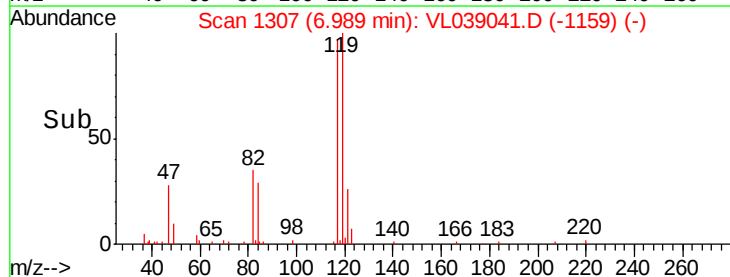
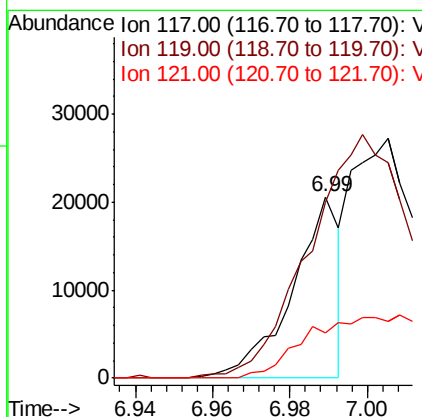
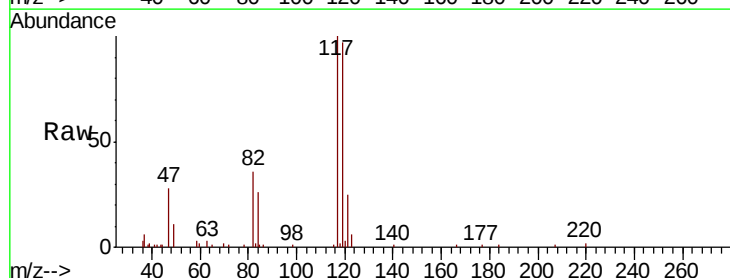
#34
 2-Butanone
 Concen: 0.214 ppbv
 RT: 5.24
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 13 May 2022 17:35

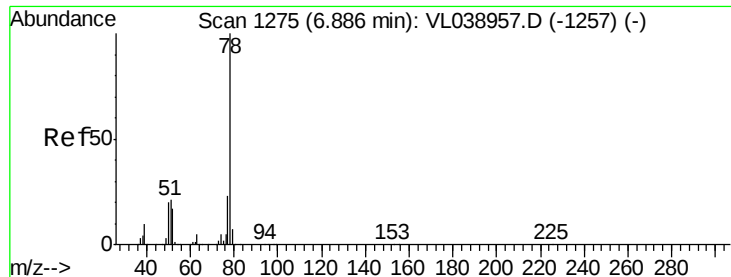
Tot Ion: 43 Resp: 23903
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.8 26.6#



#35
 Carbon Tetrachloride
 Concen: 0.122 ppbv
 RT: 6.99 min Scan# 1307
 Delta R.T. -0.03 min
 Lab File: VL039041.D
 Acq: 13 May 2022 17:35

Tgt Ion: 117 Resp: 17567
 Ion Ratio Lower Upper
 117 100
 119 97.0 75.2 112.8
 121 25.0 24.6 37.0





#36

Benzene

Concen: 0.163 ppbv

RT: 6.88 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 May 2022 17:35

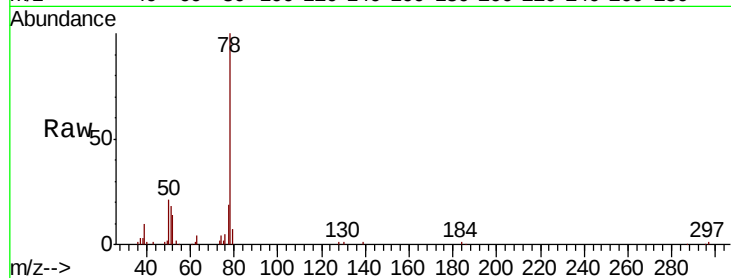
Tot Ion: 78 Resp: 30695

Ion Ratio Lower Upper

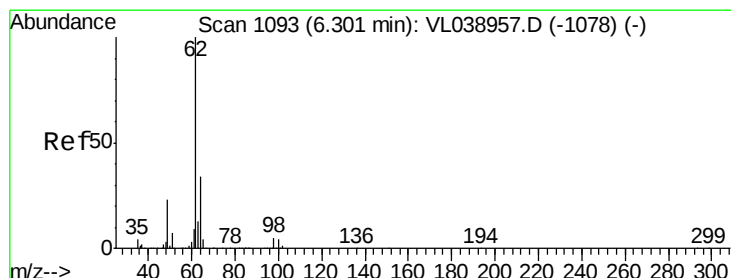
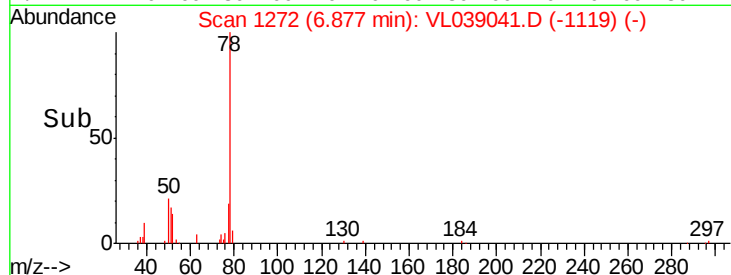
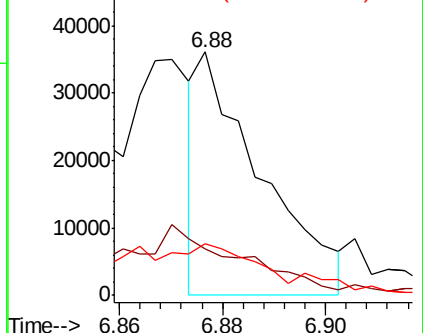
78 100

77 20.6 18.6 28.0

50 18.2 15.6 23.4



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



#37

1,2-Dichloroethane

Concen: 0.407 ppbv

RT: 6.29 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VL039041.D

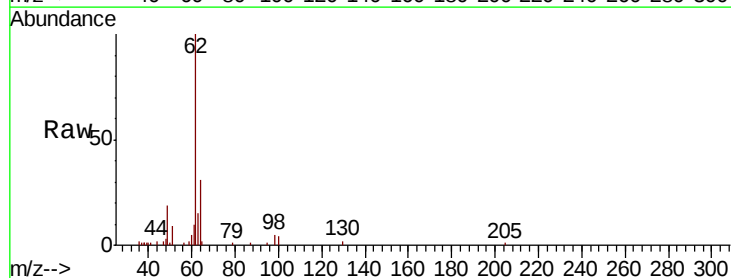
Acq: 13 May 2022 17:35

Tgt Ion: 62 Resp: 47339

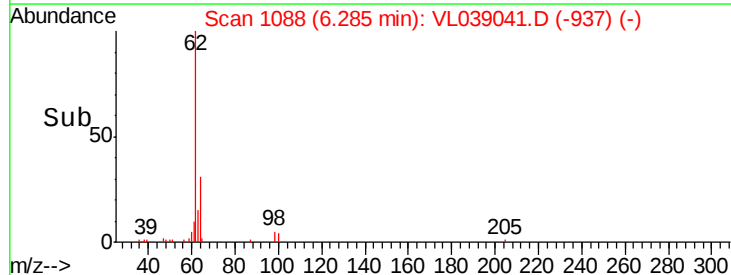
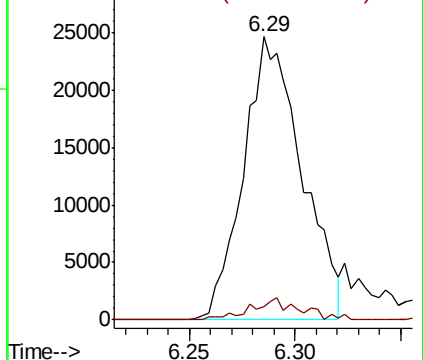
Ion Ratio Lower Upper

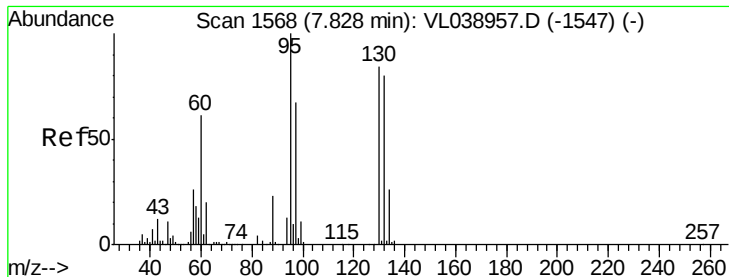
62 100

98 6.5 4.5 6.7



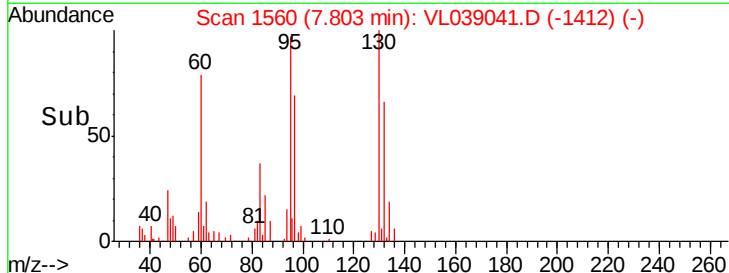
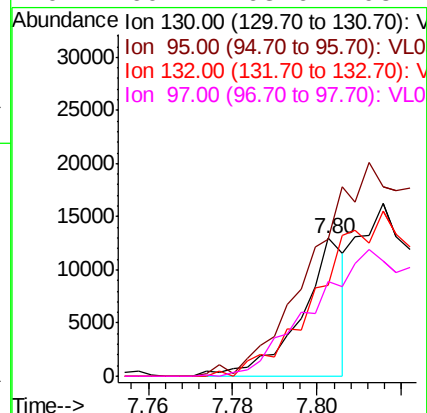
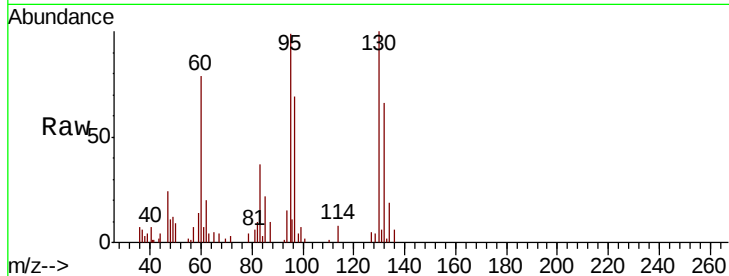
Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





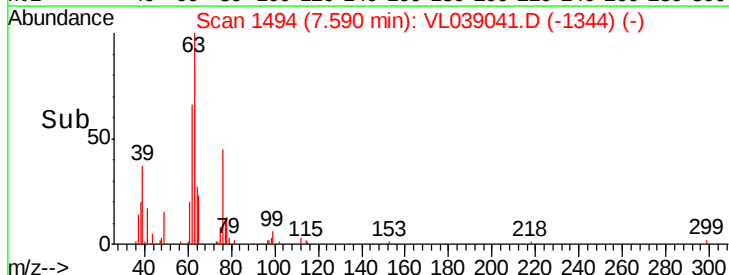
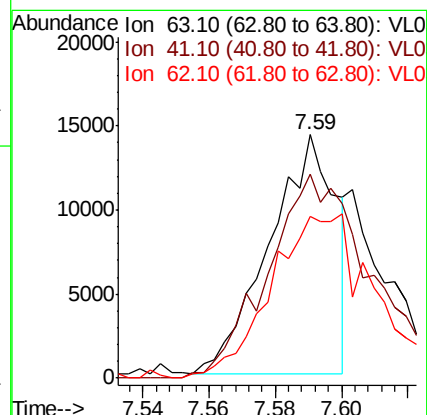
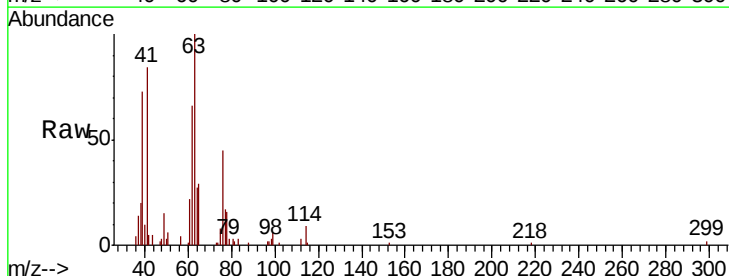
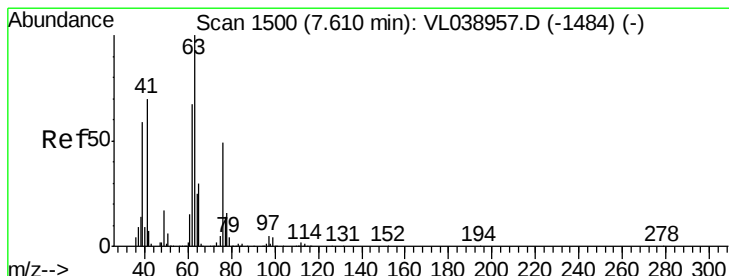
#38
 Trichloroethene
 Concen: 0.113 ppbv
 RT: 7.80
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 13 May 2022 17:35

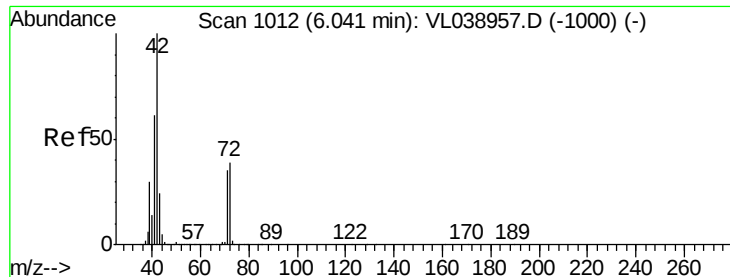
Tot Ion:130	Resp:	9392
Ion	Ratio	Lower Upper
130	100	
95	99.1	94.8 142.2
132	65.6	75.8 113.8#
97	69.2	63.6 95.4



#39
 1,2-Dichloropropane
 Concen: 0.272 ppbv
 RT: 7.59 min Scan# 1494
 Delta R.T. -0.02 min
 Lab File: VL039041.D
 Acq: 13 May 2022 17:35

Tgt Ion: 63	Resp:	19883
Ion	Ratio	Lower Upper
63	100	
41	83.0	55.9 83.9
62	66.0	53.8 80.6





#41

Tetrahydrofuran

Concen: 0.283 ppbv

RT: 6.06 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 0.4 MDL

Acq: 13 May 2022 17:35

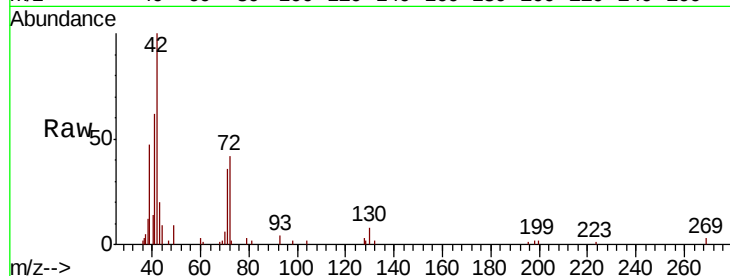
Tot Ion: 42 Resp: 21314

Ion Ratio Lower Upper

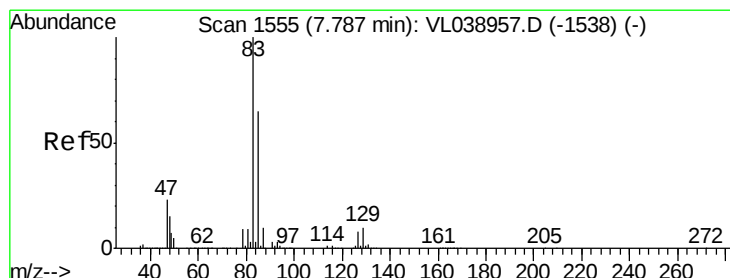
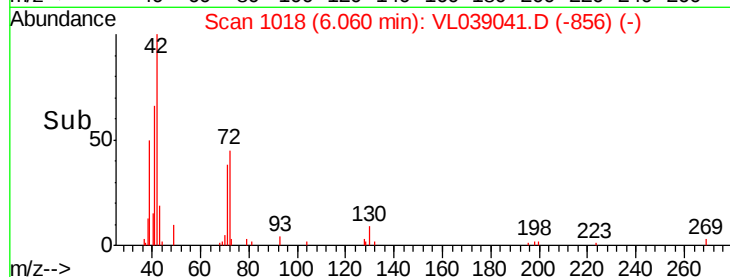
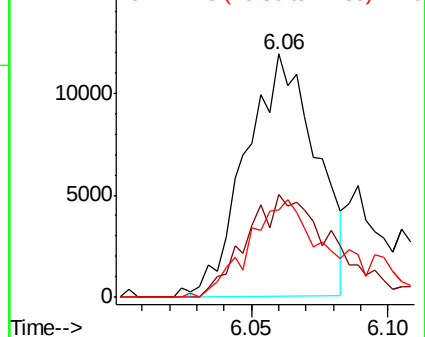
42 100

72 51.3 31.8 47.6#

71 52.0 30.6 45.8#



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



#42

Bromodichloromethane

Concen: 0.190 ppbv

RT: 7.77 min Scan# 1549

Delta R.T. -0.02 min

Lab File: VL039041.D

Acq: 13 May 2022 17:35

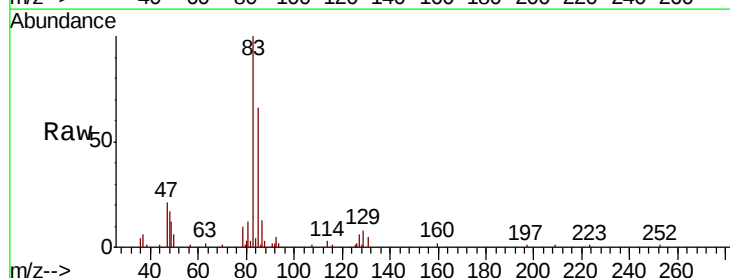
Tgt Ion: 83 Resp: 30118

Ion Ratio Lower Upper

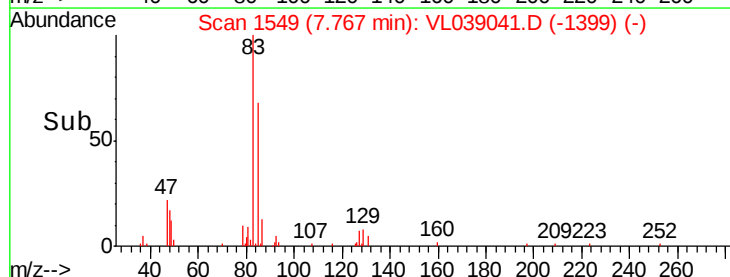
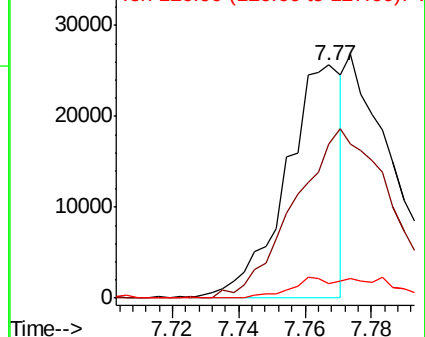
83 100

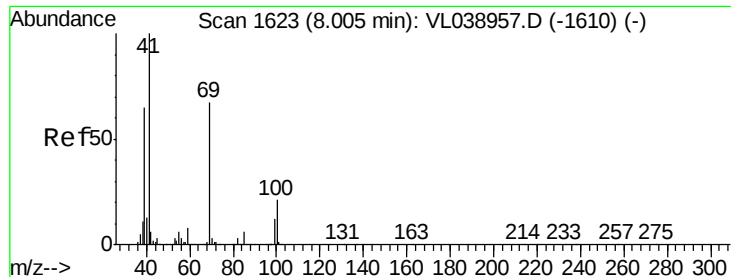
85 65.5 52.0 78.0

127 6.3 6.0 9.0



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 0.194 ppbv

RT: 8.00

Instrument: MSVOA_1

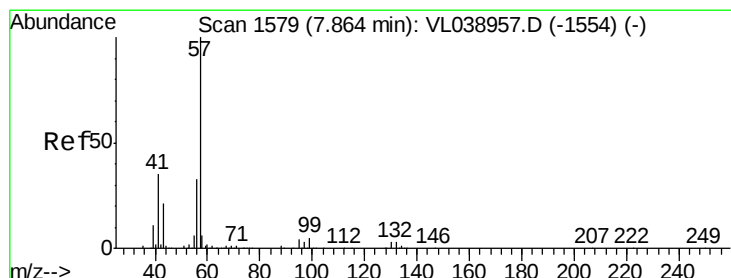
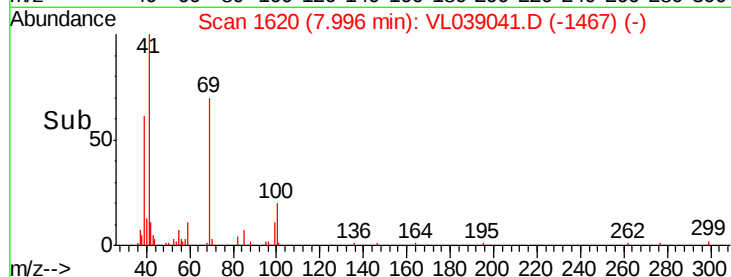
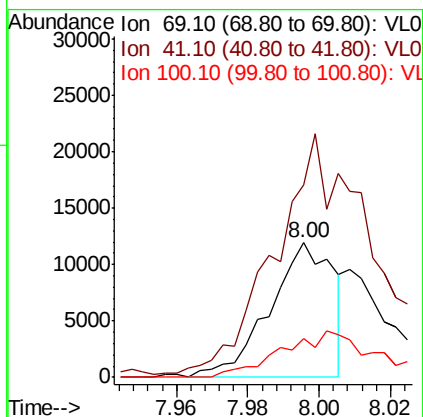
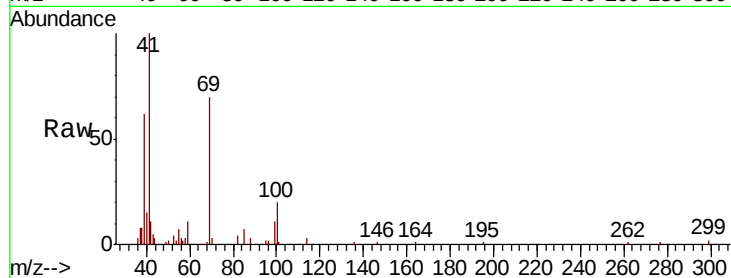
Delta R.T.:

Lab File: ClientSampleId:

Acq: 13 May 2022 17:35

Tot Ion: 69 Resp: 14768

Ion	Ratio	Lower	Upper
69	100		
41	305.2	121.9	182.9#
100	55.4	24.6	36.8#



#44

2,2,4-Trimethylpentane

Concen: 0.404 ppbv

RT: 7.85 min Scan# 1574

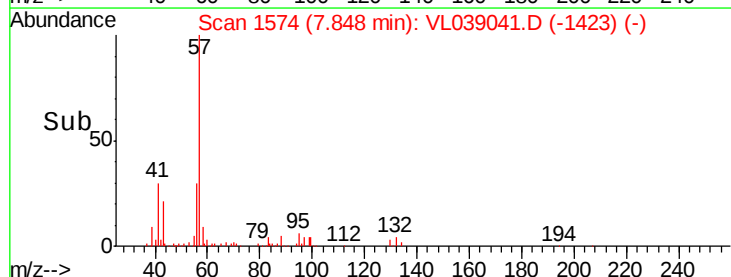
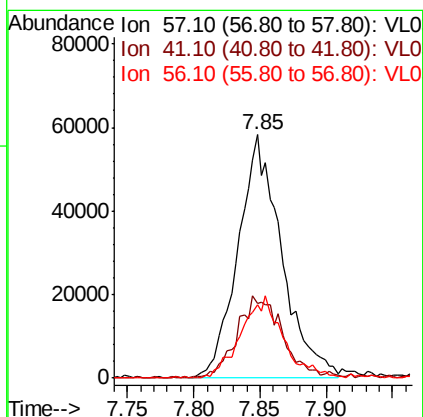
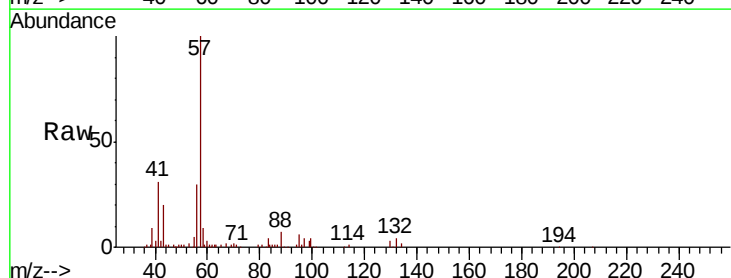
Delta R.T. -0.02 min

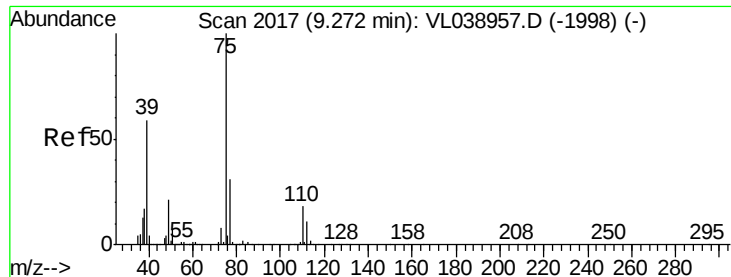
Lab File: VL039041.D

Acq: 13 May 2022 17:35

Tgt Ion: 57 Resp: 133182

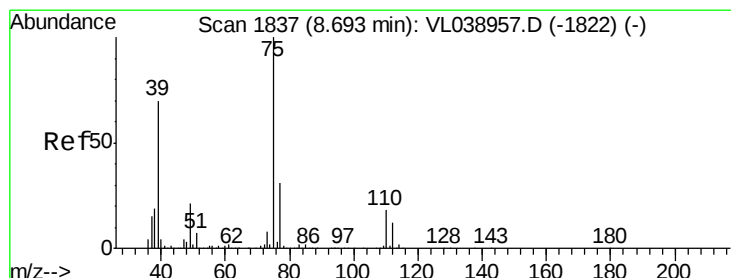
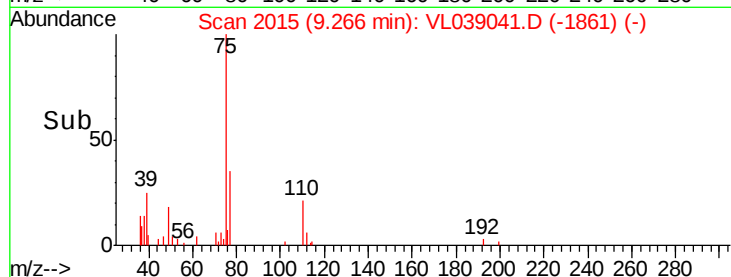
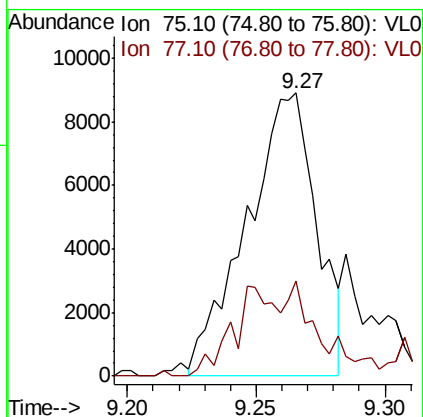
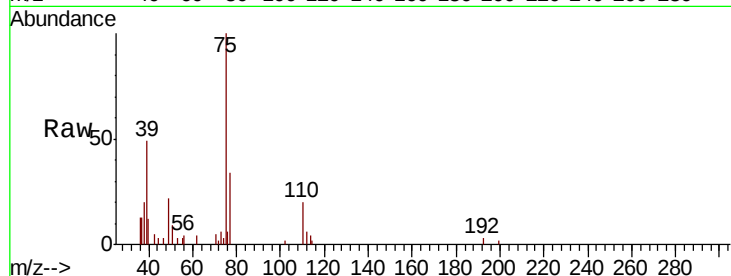
Ion	Ratio	Lower	Upper
57	100		
41	35.8	26.3	39.5
56	32.8	24.6	37.0





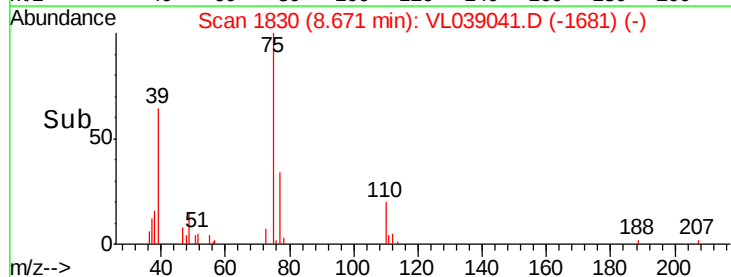
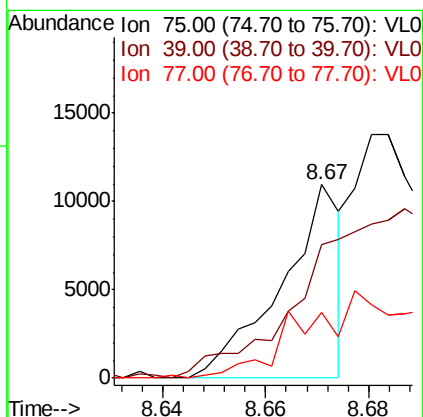
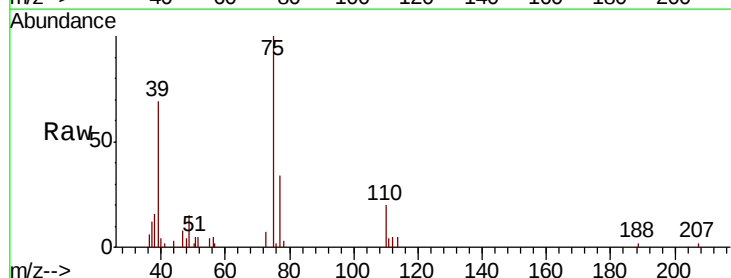
#45
 t-1,3-Dichloropropene
 Concen: 0.229 ppbv
 RT: 9.27
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 May 2022 17:35

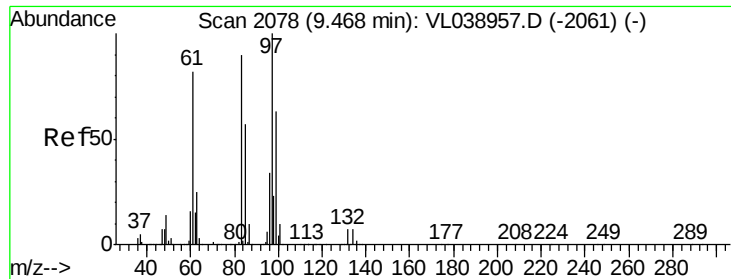
Tot Ion: 75 Resp: 16876
 Ion Ratio Lower Upper
 75 100
 77 31.5 24.6 37.0



#46
 cis-1,3-Dichloropropene
 Concen: 0.090 ppbv
 RT: 8.67 min Scan# 1830
 Delta R.T. -0.02 min
 Lab File: VL039041.D
 Acq: 13 May 2022 17:35

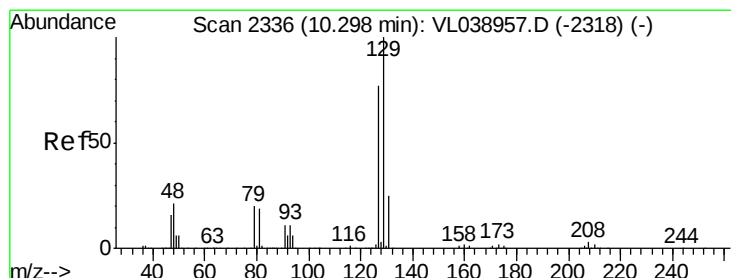
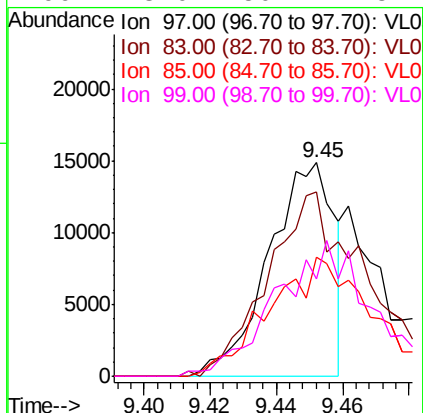
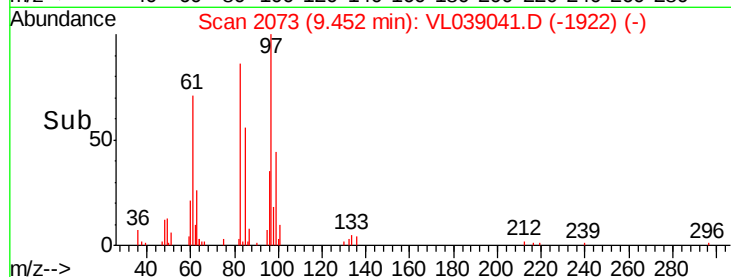
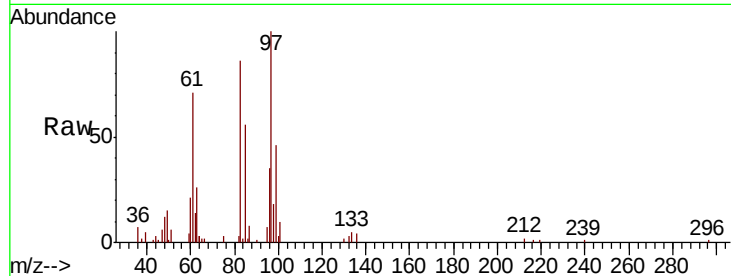
Tgt Ion: 75 Resp: 8813
 Ion Ratio Lower Upper
 75 100
 39 65.1 55.8 83.6
 77 33.9 24.8 37.2





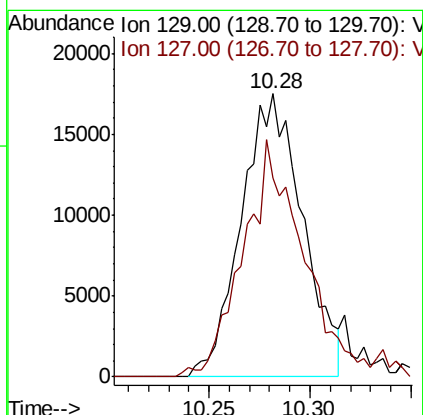
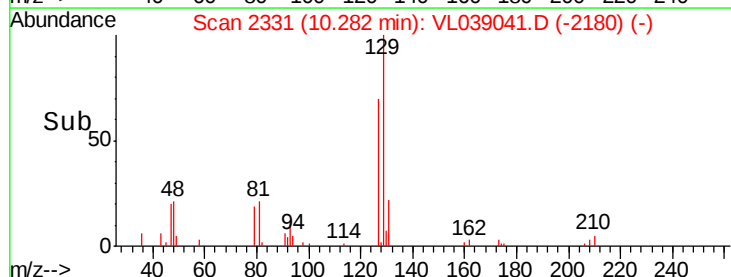
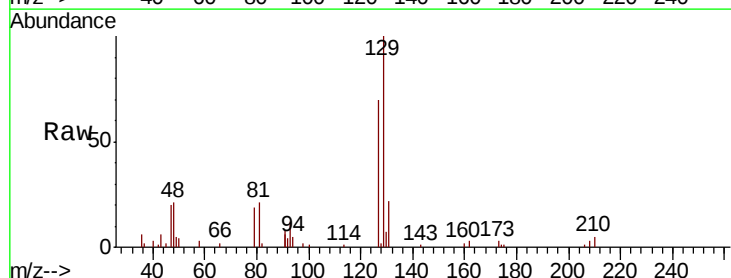
#47
 1,1,2-Trichloroethane
 Concen: 0.268 ppbv
 RT: 9.45
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId:
 Acq: 13 May 2022 17:35

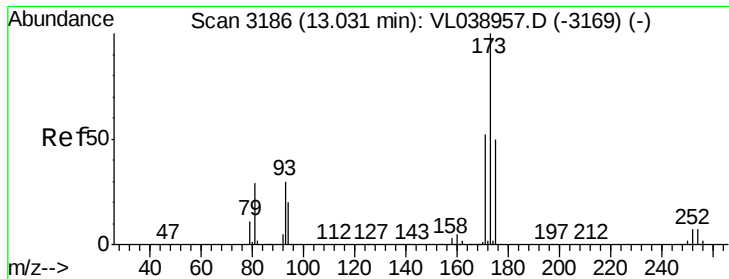
Tot Ion: 97 Resp: 20398
 Ion Ratio Lower Upper
 97 100
 83 83.5 72.0 108.0
 85 55.8 45.7 68.5
 99 43.0 50.2 75.4#



#48
 Dibromochloromethane
 Concen: 0.300 ppbv
 RT: 10.28 min Scan# 2331
 Delta R.T. -0.02 min
 Lab File: VL039041.D
 Acq: 13 May 2022 17:35

Tgt Ion: 129 Resp: 37102
 Ion Ratio Lower Upper
 129 100
 127 84.9 39.3 117.9





#49

Bromoform

Concen: 0.136 ppbv

RT: 13.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 May 2022 17:35

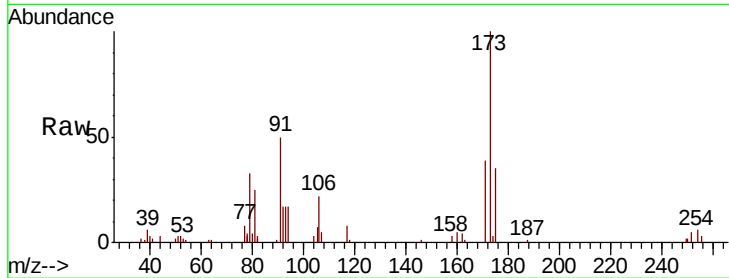
Tot Ion:173 Resp: 12873

Ion Ratio Lower Upper

173 100

175 111.4 41.0 61.6#

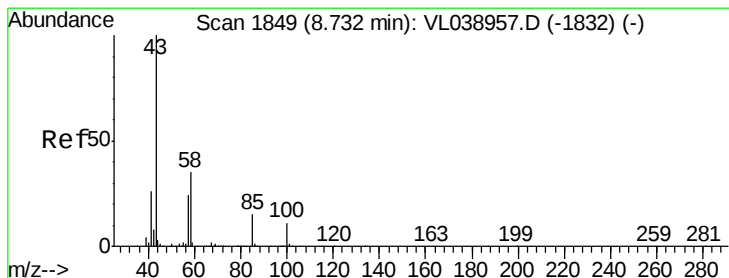
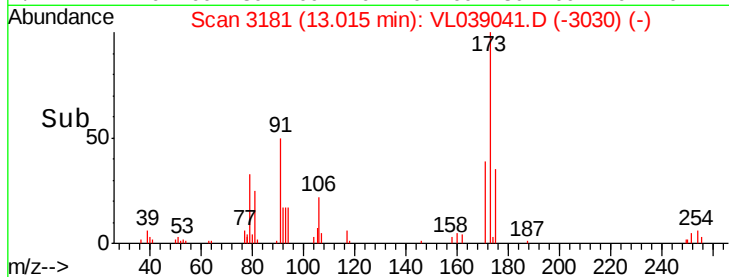
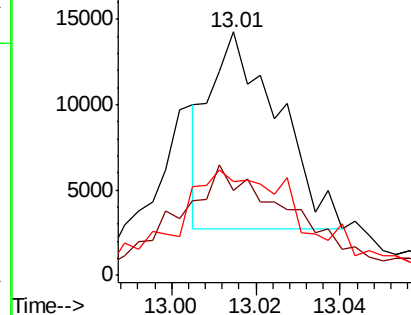
171 115.9 42.6 64.0#



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.182 ppbv

RT: 8.74 min Scan# 1852

Delta R.T. 0.01 min

Lab File: VL039041.D

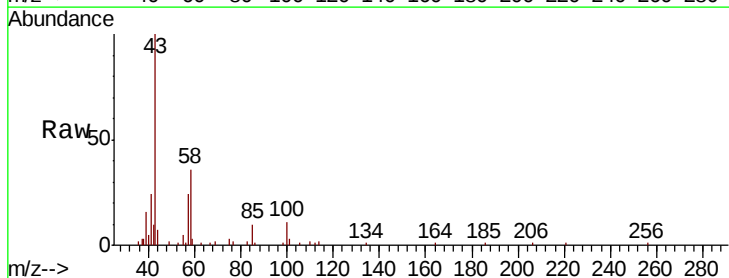
Acq: 13 May 2022 17:35

Tgt Ion: 43 Resp: 35671

Ion Ratio Lower Upper

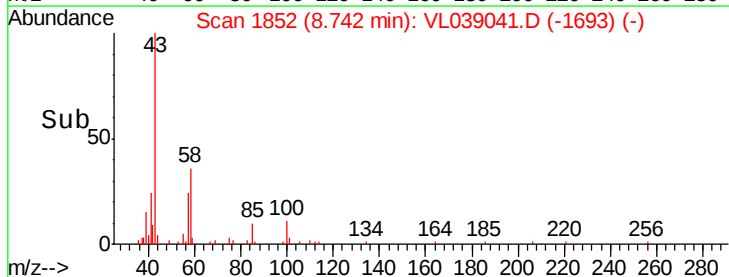
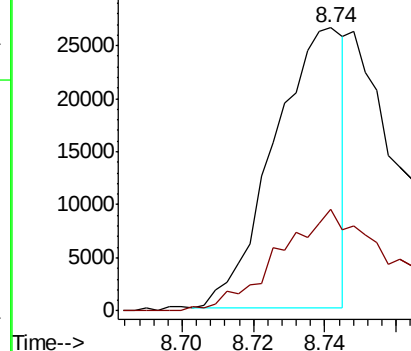
43 100

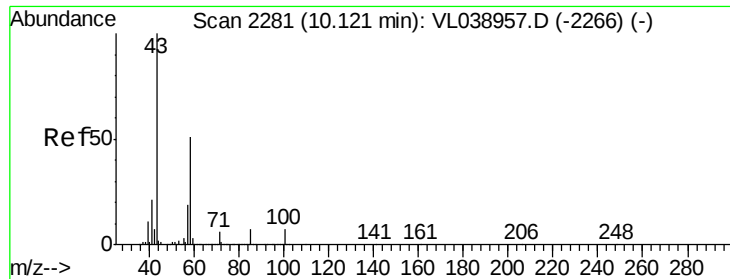
58 74.2 28.4 42.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

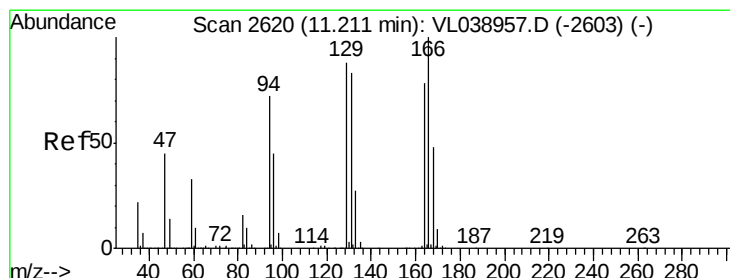
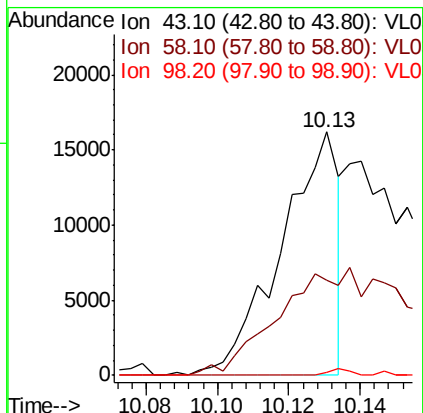
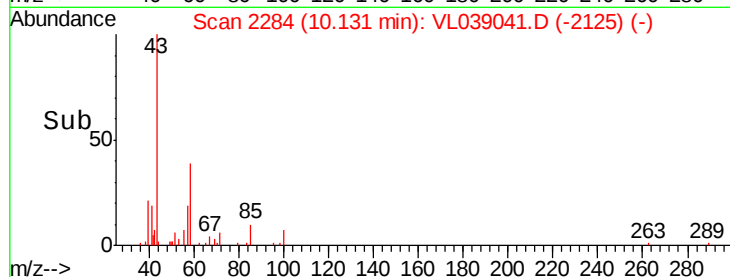
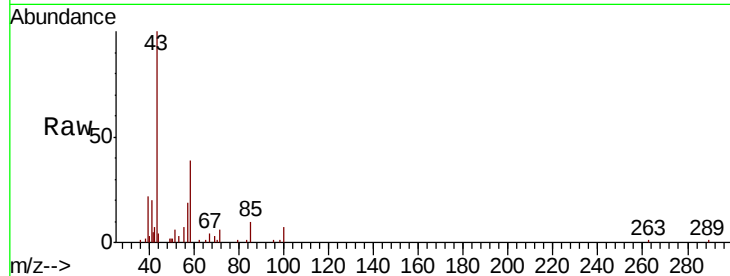
Ion 58.10 (57.80 to 58.80): VL0





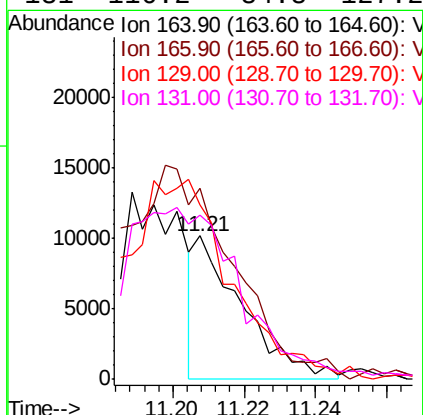
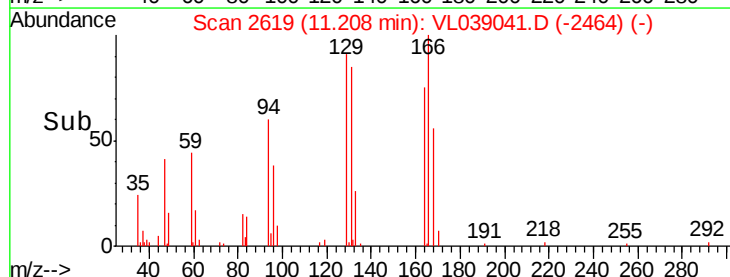
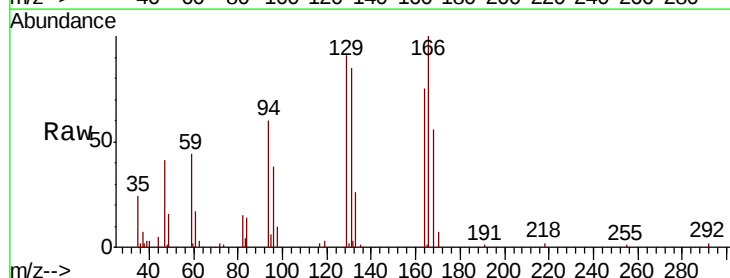
#51
2-Hexanone
Concen: 0.127 ppbv
RT: 10.13 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 May 2022 17:35

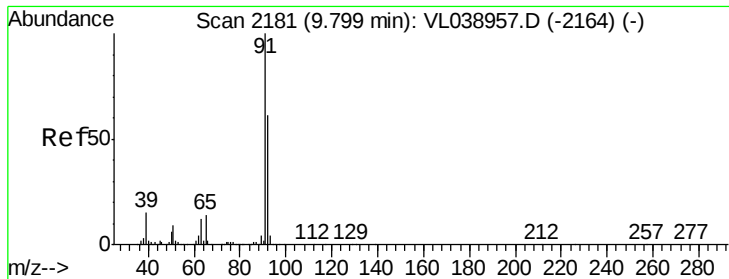
Tot Ion: 43 Resp: 18170
Ion Ratio Lower Upper
43 100
58 0.0 39.3 58.9#
98 1.3 0.2 0.2#



#52
Tetrachloroethene
Concen: 0.139 ppbv
RT: 11.21 min Scan# 2619
Delta R.T. -0.00 min
Lab File: VL039041.D
Acq: 13 May 2022 17:35

Tgt Ion: 164 Resp: 9331
Ion Ratio Lower Upper
164 100
166 132.2 102.5 153.7
129 121.8 90.1 135.1
131 116.2 84.8 127.2





#53

Toluene

Concen: 0.357 ppbv

RT: 9.78 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

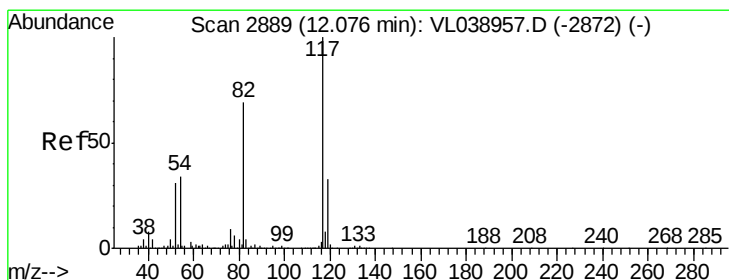
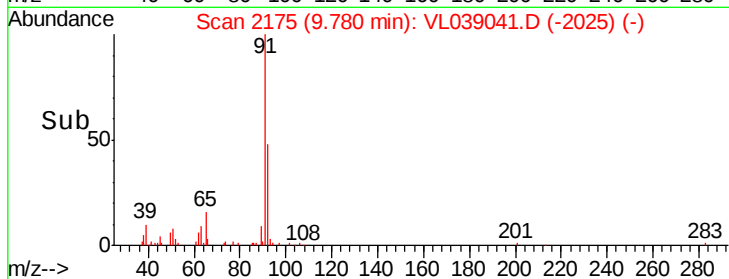
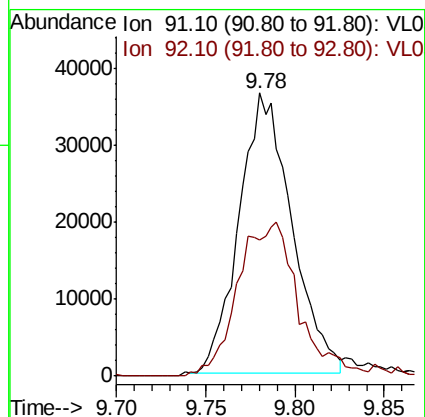
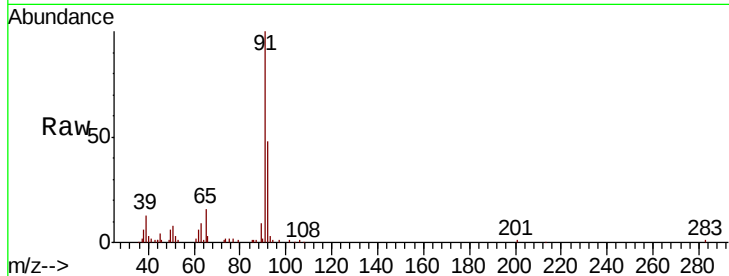
Acq: 13 May 2022 17:35

Tot Ion: 91 Resp: 75063

Ion Ratio Lower Upper

91 100

92 65.1 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.02 min

Lab File: VL039041.D

Acq: 13 May 2022 17:35

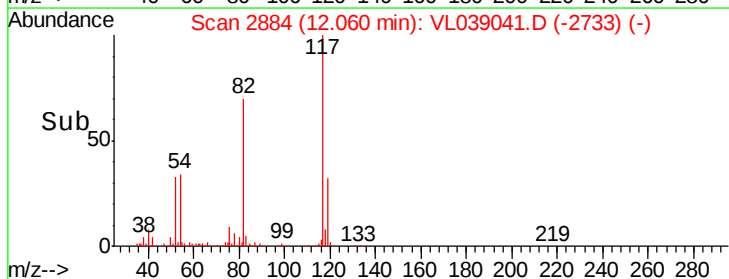
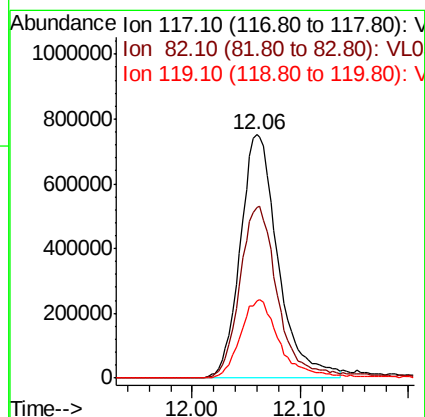
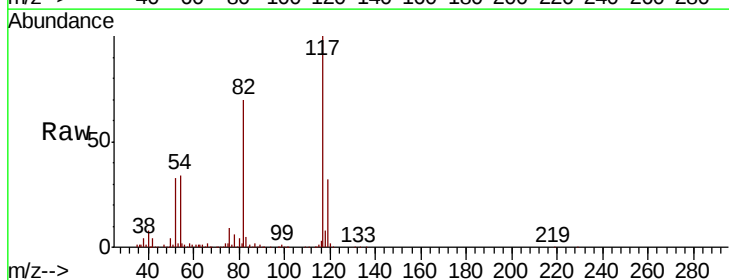
Tgt Ion: 117 Resp: 1832376

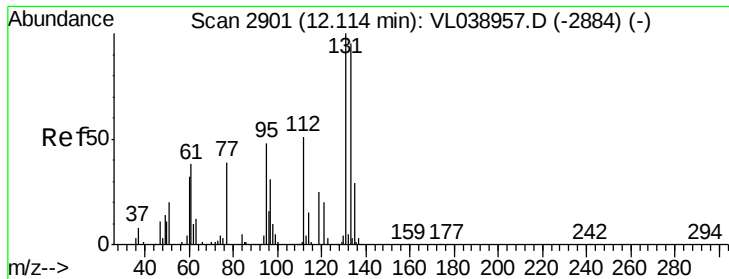
Ion Ratio Lower Upper

117 100

82 73.1 57.0 85.6

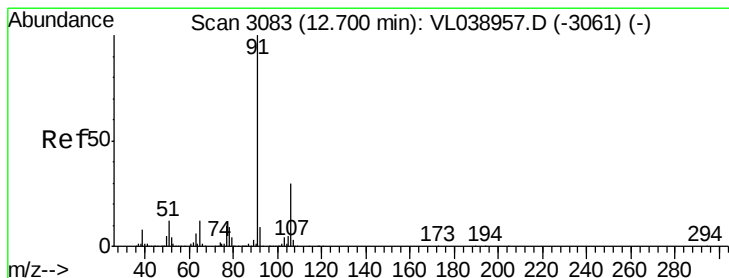
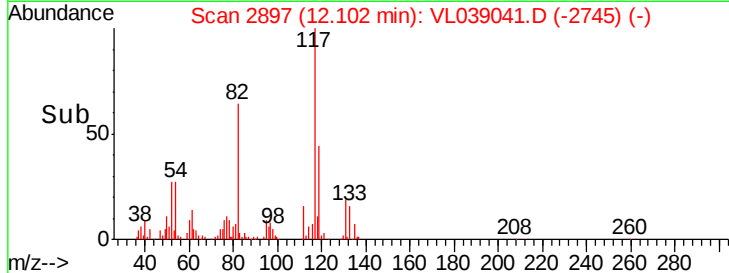
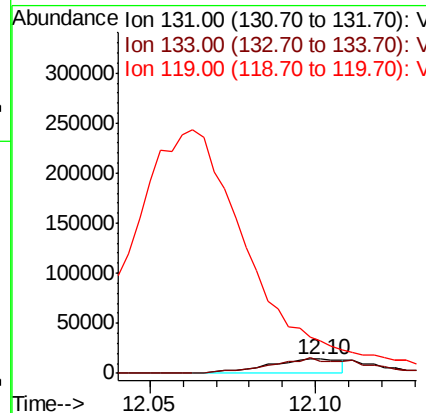
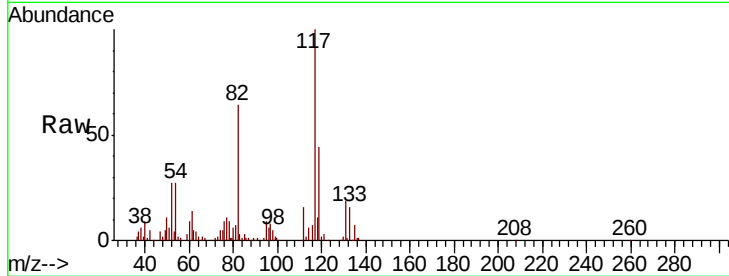
119 34.8 27.2 40.8





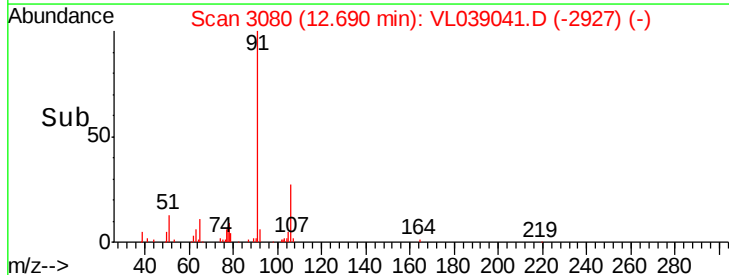
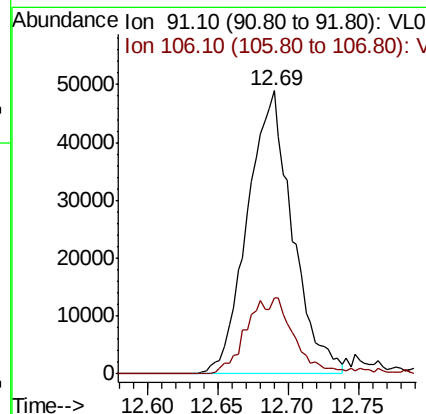
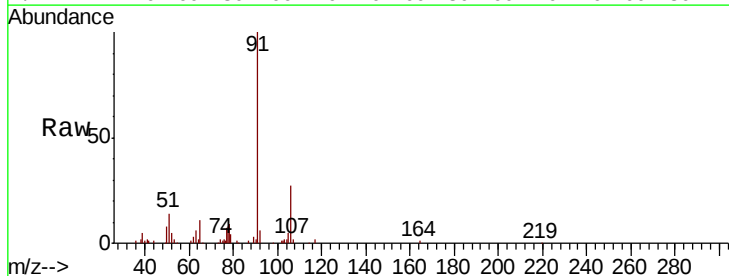
#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.270 ppbv
 RT: 12.10 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 May 2022 17:35

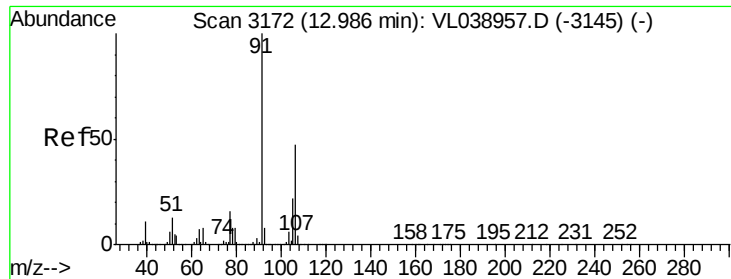
Tot Ion: 131 Resp: 21683
 Ion Ratio Lower Upper
 131 100
 133 152.7 76.9 115.3#
 119 0.0 47.4 71.0#



#58
 Ethyl Benzene
 Concen: 0.414 ppbv
 RT: 12.69 min Scan# 3080
 Delta R.T. -0.01 min
 Lab File: VL039041.D
 Acq: 13 May 2022 17:35

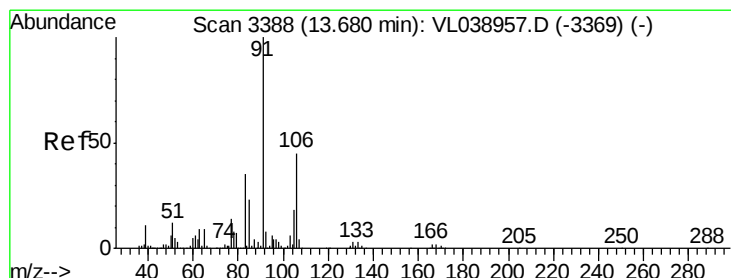
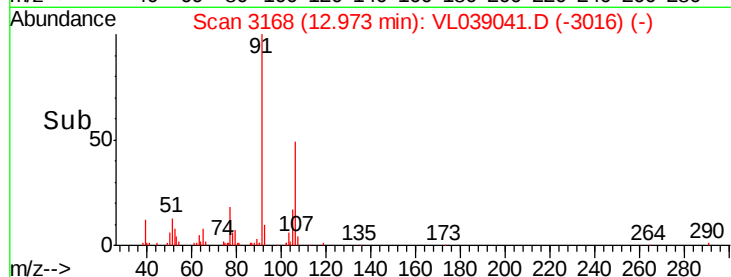
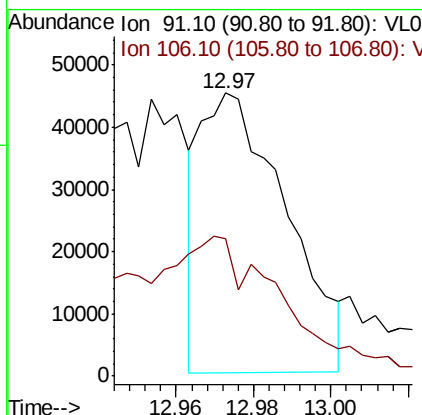
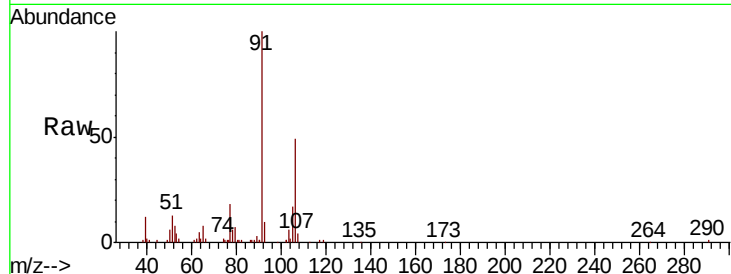
Tgt Ion: 91 Resp: 109240
 Ion Ratio Lower Upper
 91 100
 106 26.9 24.2 36.4





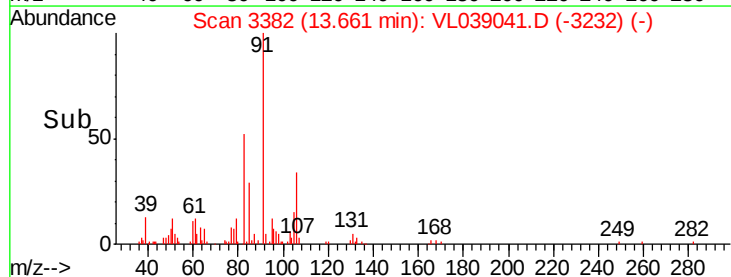
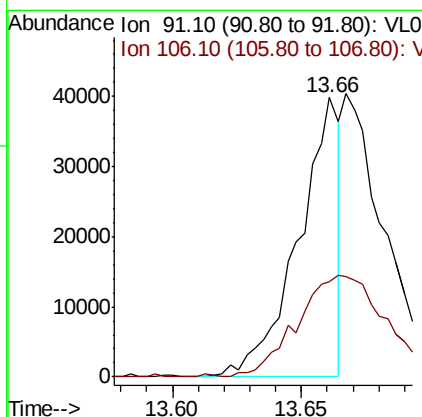
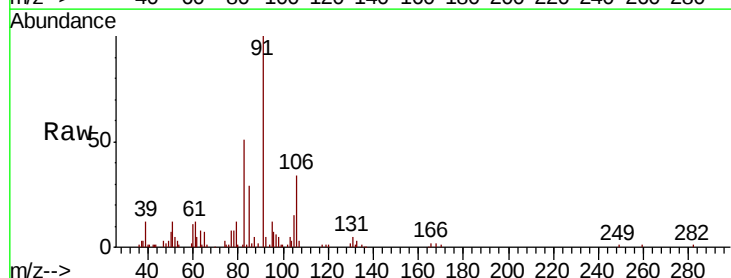
#59
m/p-Xylene
Concen: 0.307 ppbv
RT: 12.97 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 May 2022 17:35

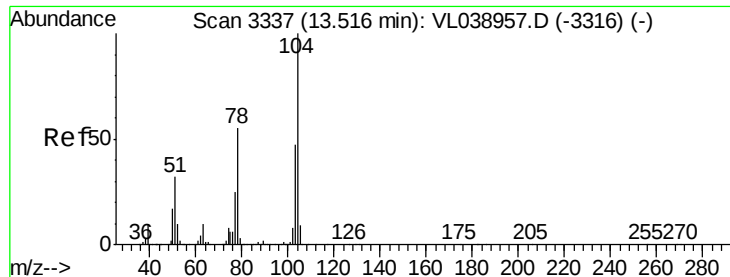
Tot Ion: 91 Resp: 69216
Ion Ratio Lower Upper
91 100
106 116.7 34.6 52.0#



#60
o-Xylene
Concen: 0.208 ppbv
RT: 13.66 min Scan# 3382
Delta R.T. -0.02 min
Lab File: VL039041.D
Acq: 13 May 2022 17:35

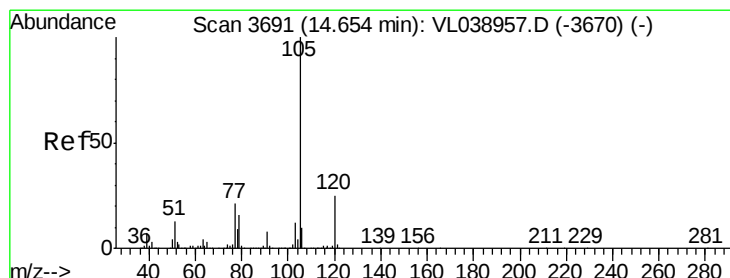
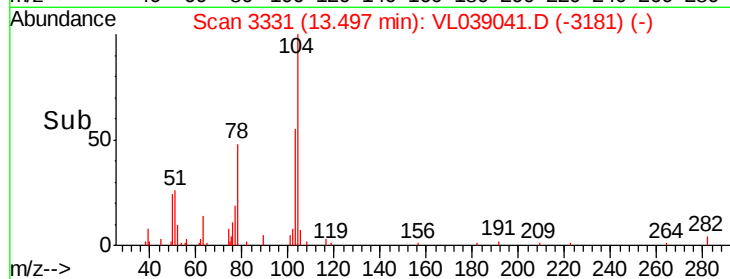
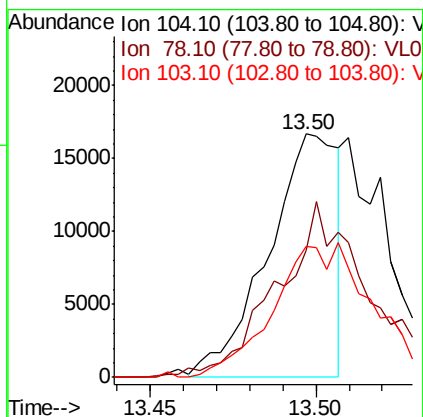
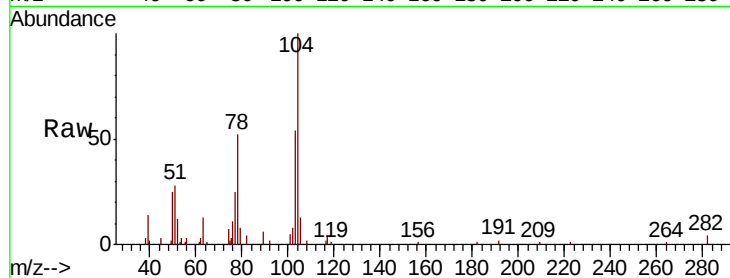
Tgt Ion: 91 Resp: 44005
Ion Ratio Lower Upper
91 100
106 0.0 22.2 66.6#





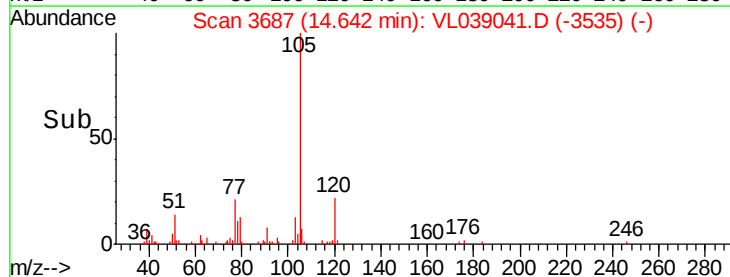
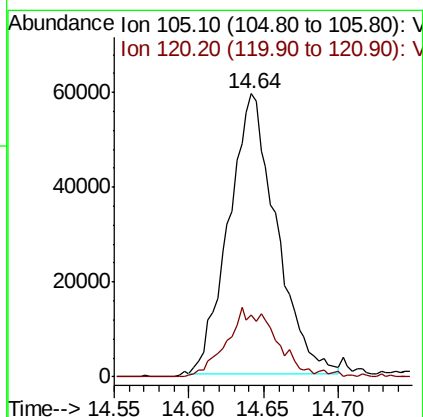
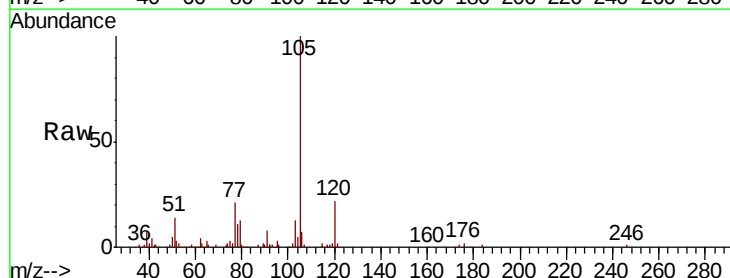
#61
Stvrene
Concen: 0.215 ppbv
RT: 13.50
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 13 May 2022 17:35

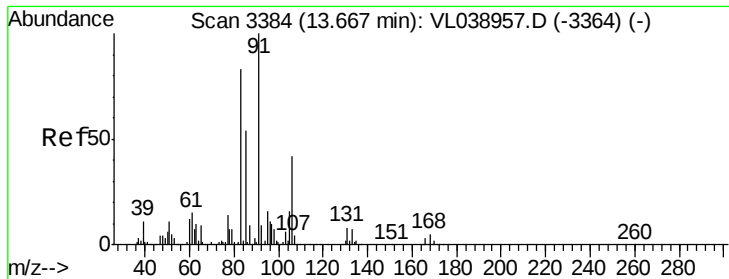
Tot Ion	Ratio	Lower	Upper
104	100		
78	106.3	46.4	69.6#
103	0.0	39.3	58.9#



#62
Isopropylbenzene
Concen: 0.424 ppbv
RT: 14.64 min Scan# 3687
Delta R.T. -0.01 min
Lab File: VL039041.D
Acq: 13 May 2022 17:35

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.4	20.5	30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 0.262 ppbv

RT: 13.65

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 May 2022 17:35

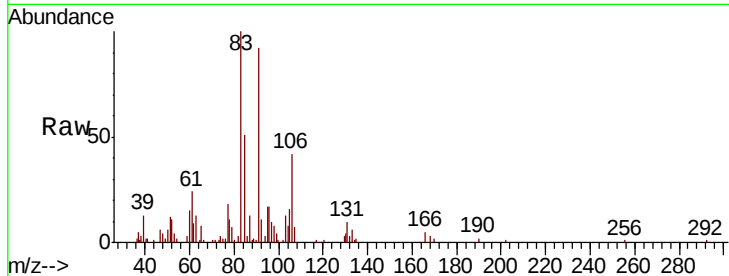
Tot Ion: 83 Resp: 32716

Ion Ratio Lower Upper

83 100

131 16.4 4.5 13.7#

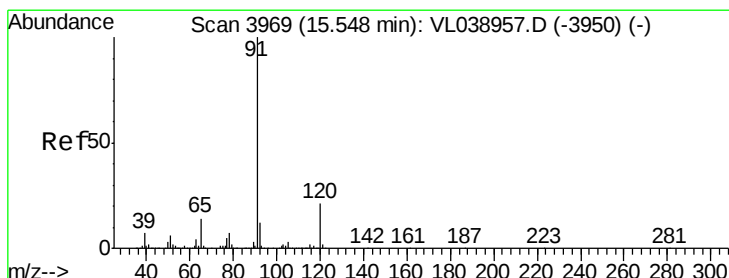
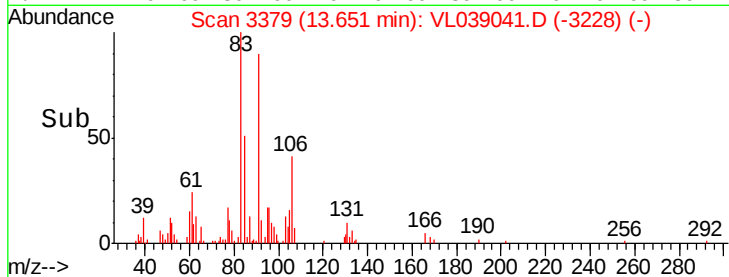
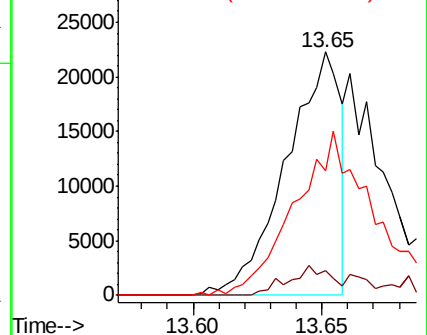
85 108.4 32.8 98.3#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.109 ppbv

RT: 15.52 min Scan# 3961

Delta R.T. -0.03 min

Lab File: VL039041.D

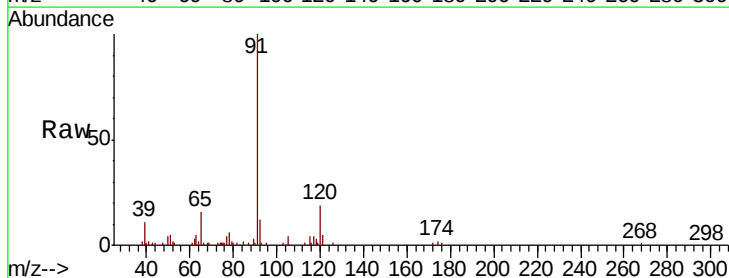
Acq: 13 May 2022 17:35

Tgt Ion:120 Resp: 8147

Ion Ratio Lower Upper

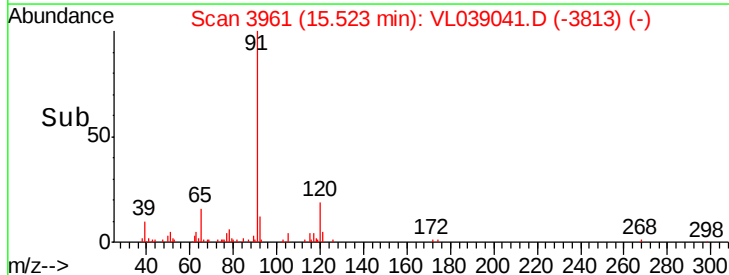
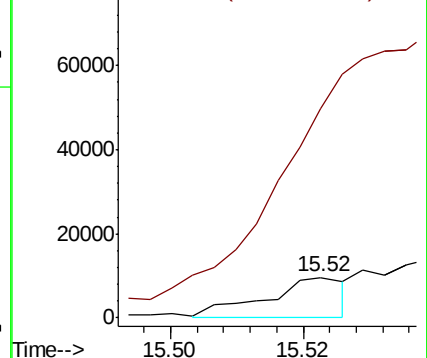
120 100

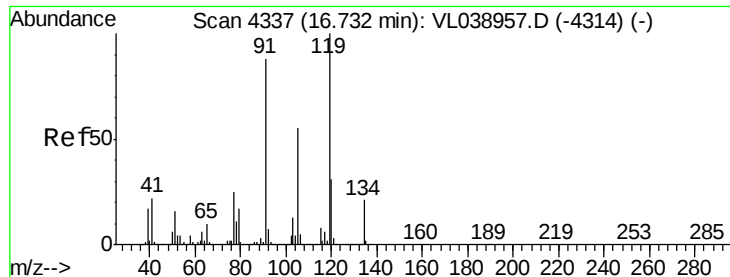
91 0.0 400.6 601.0#



Abundance Ion 120.20 (119.90 to 120.90): V

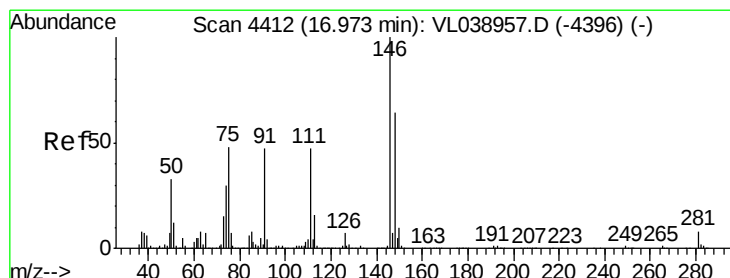
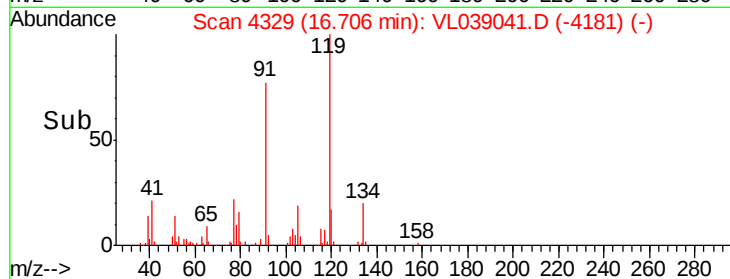
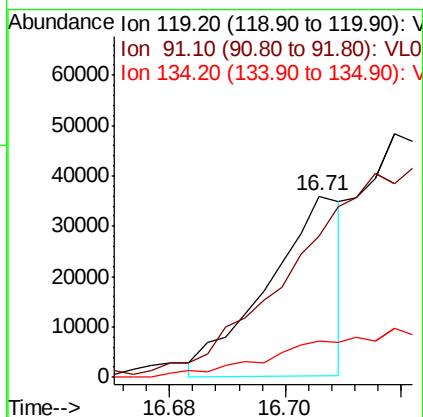
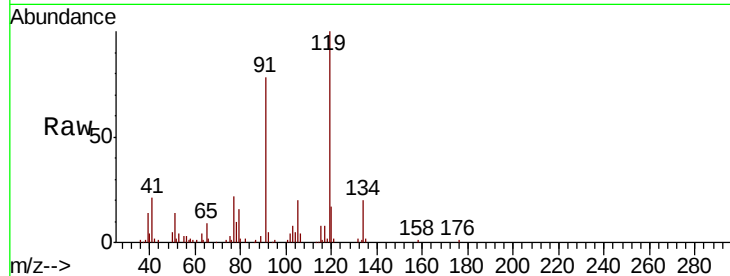
Ion 91.10 (90.80 to 91.80): VL0





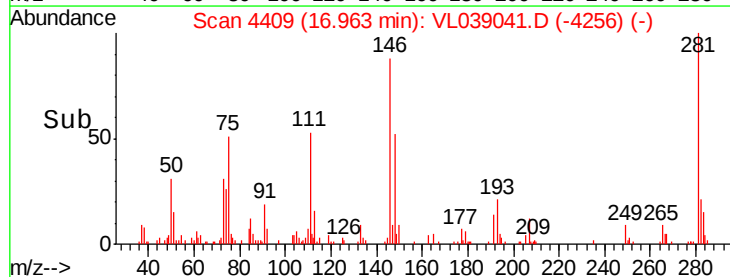
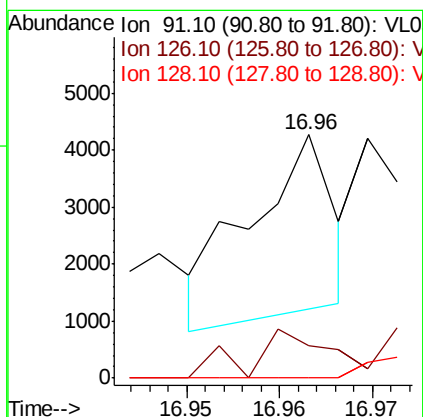
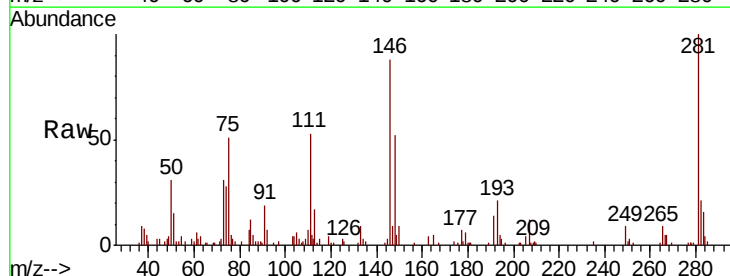
#65
 tert-Butylbenzene
 Concen: 0.116 ppbv
 RT: 16.71 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 13 May 2022 17:35

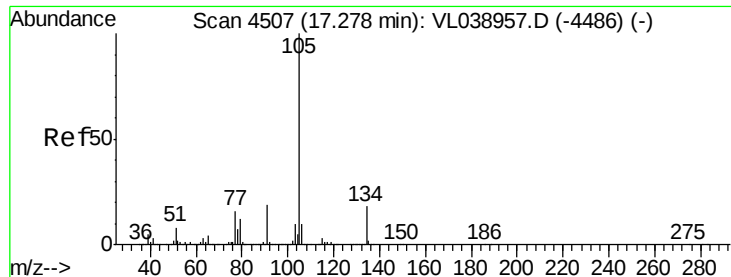
Tot Ion: 119 Resp: 31625
 Ion Ratio Lower Upper
 119 100
 91 0.0 69.4 104.2#
 134 0.0 15.8 23.8#



#66
 Benzyl Chloride
 Concen: 0.055 ppbv
 RT: 16.96 min Scan# 4409
 Delta R.T. -0.01 min
 Lab File: VL039041.D
 Acq: 13 May 2022 17:35

Tgt Ion: 91 Resp: 1960
 Ion Ratio Lower Upper
 91 100
 126 0.0 11.8 17.6#
 128 0.0 4.2 6.2#





#67

sec-Butylbenzene

Concen: 0.213 ppbv

RT: 17.27 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

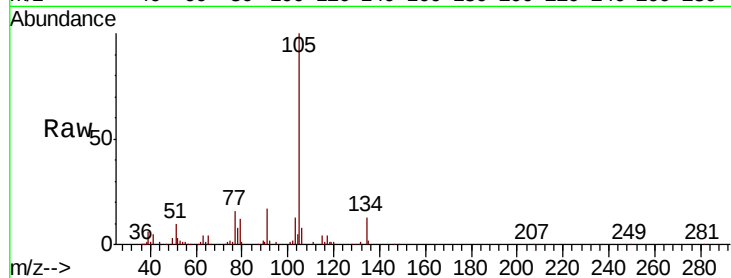
Acq: 13 May 2022 17:35

Tot Ion: 105 Resp: 82499

Ion Ratio Lower Upper

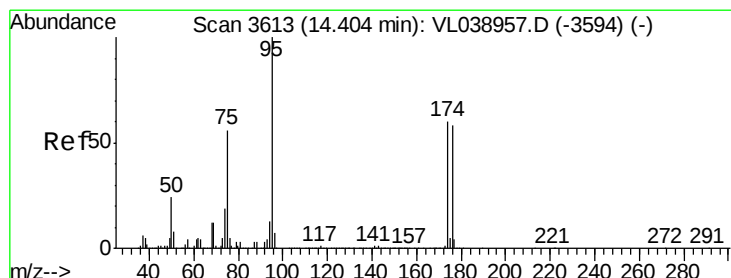
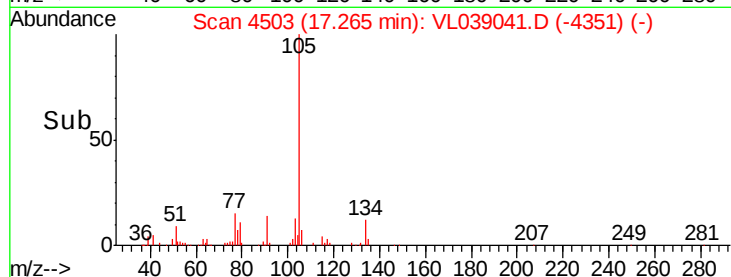
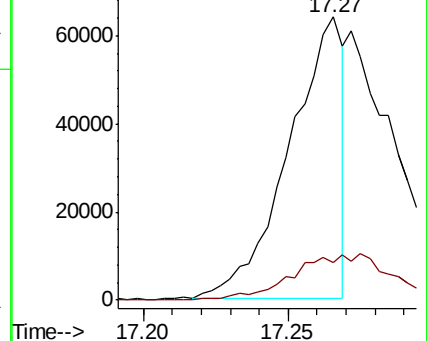
105 100

134 0.0 14.2 21.4#



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: 10.021 ppbv

RT: 14.39 min Scan# 3608

Delta R.T. -0.02 min

Lab File: VL039041.D

Acq: 13 May 2022 17:35

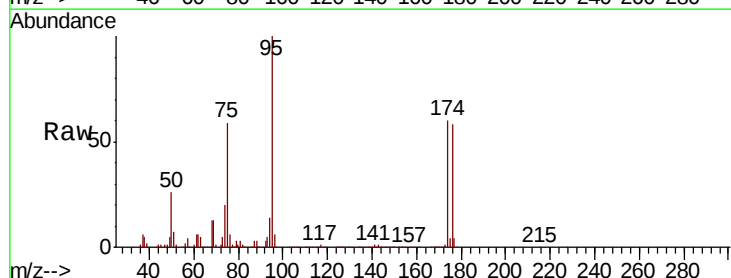
Tgt Ion: 95 Resp: 1454181

Ion Ratio Lower Upper

95 100

174 64.9 50.8 76.2

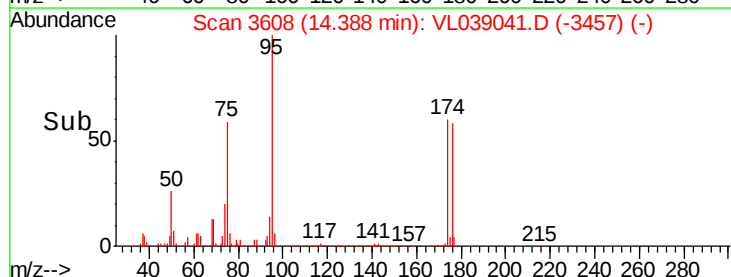
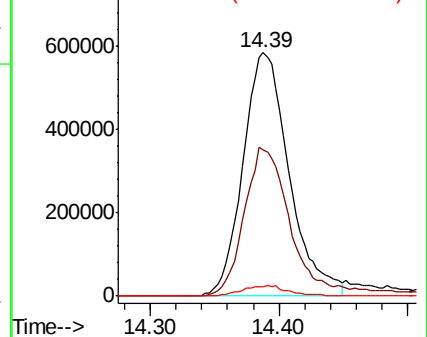
175 4.6 3.8 5.6

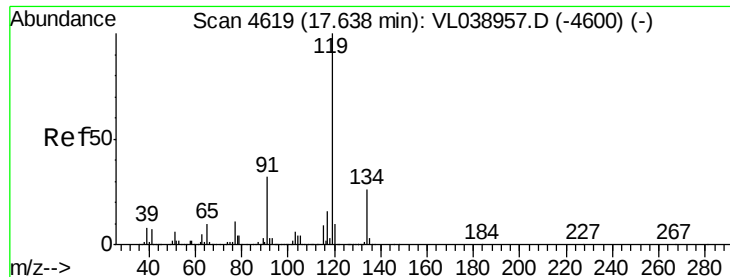


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 0.396 ppbv

RT: 17.63 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 May 2022 17:35

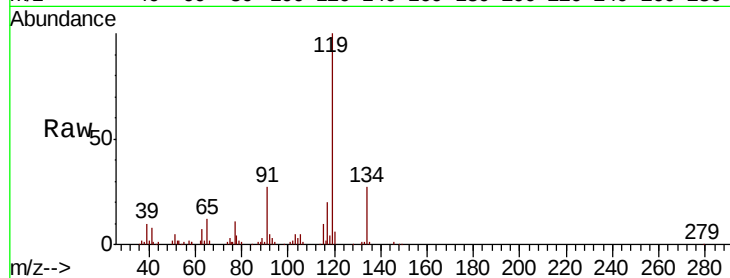
Tot Ion: 119 Resp: 124212

Ion Ratio Lower Upper

119 100

134 26.1 20.0 30.0

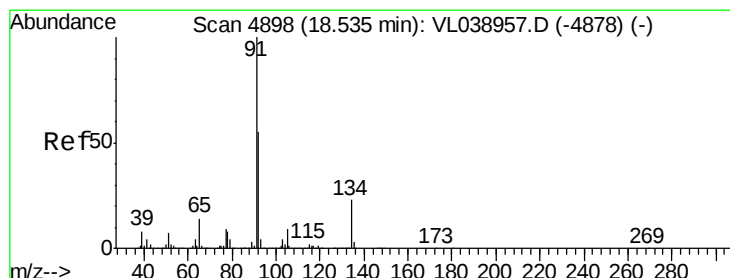
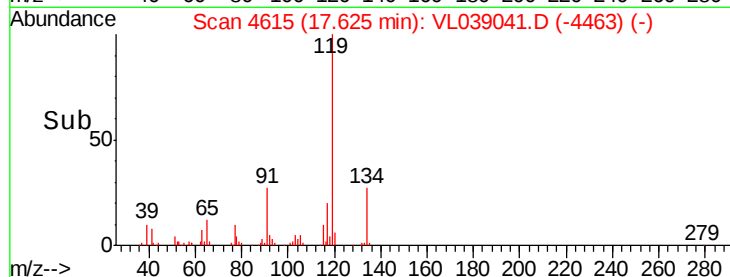
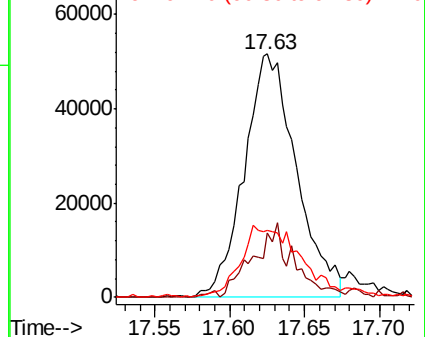
91 36.0 24.8 37.2



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 0.388 ppbv

RT: 18.53 min Scan# 4895

Delta R.T. -0.01 min

Lab File: VL039041.D

Acq: 13 May 2022 17:35

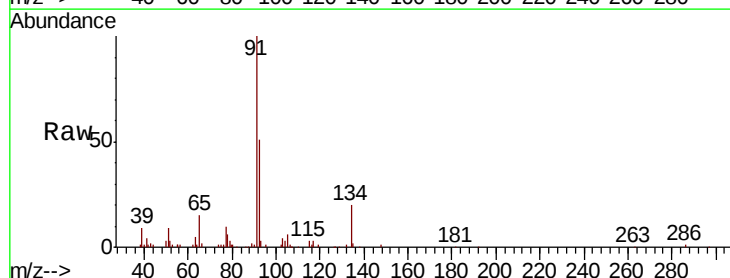
Tgt Ion: 91 Resp: 129179

Ion Ratio Lower Upper

91 100

92 53.0 43.1 64.7

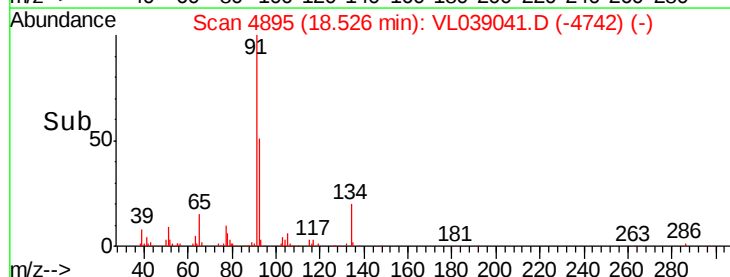
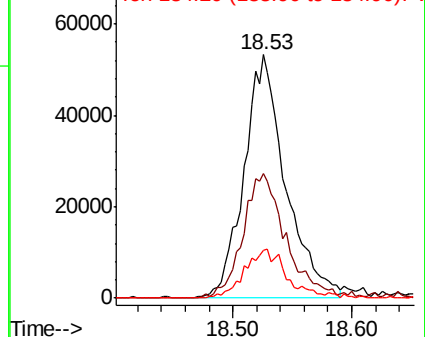
134 20.6 17.0 25.4

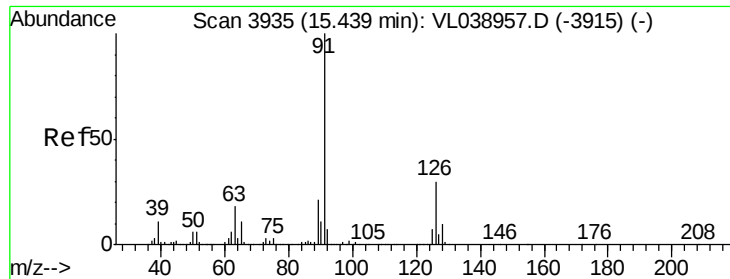


Abundance Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

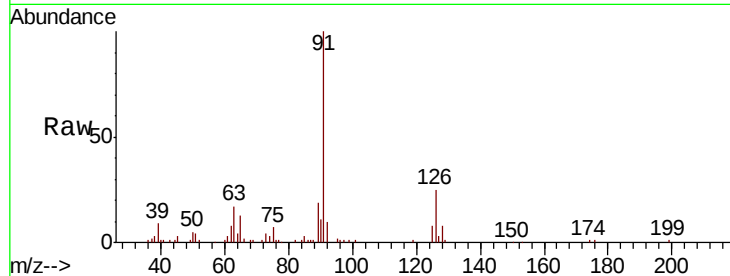
Ion 134.20 (133.90 to 134.90): V



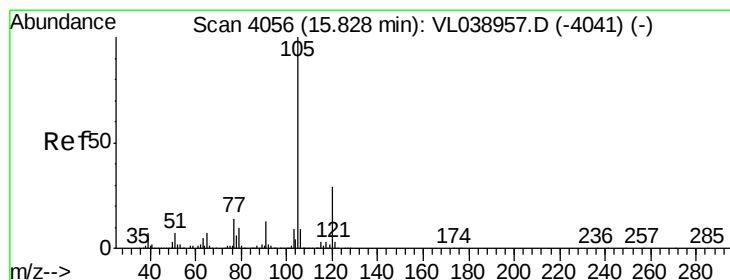
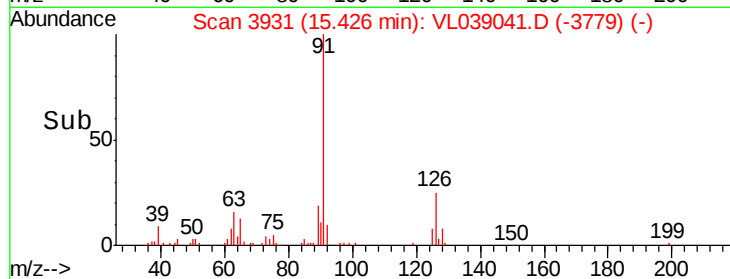
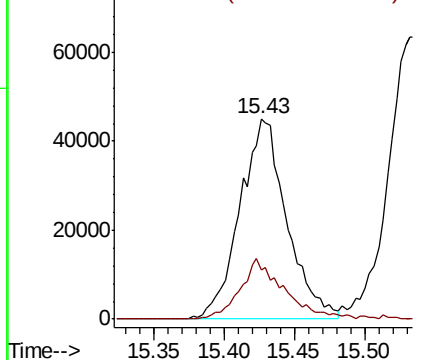


#71
 2-Chlorotoluene
 Concen: 0.439 ppbv
 RT: 15.43 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 May 2022 17:35

Tot Ion: 91 Resp: 104764
 Ion Ratio Lower Upper
 91 100
 126 29.1 11.9 47.5

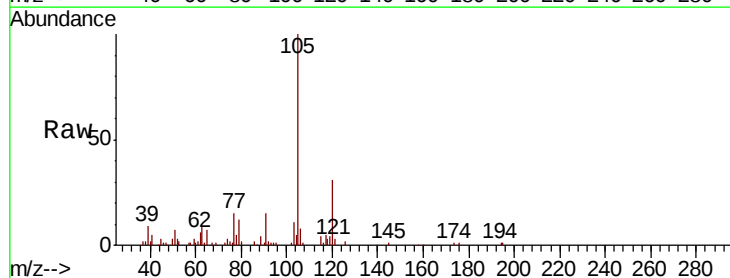


Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 126.10 (125.80 to 126.80): V

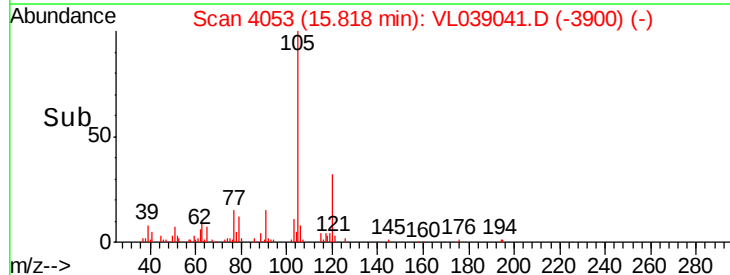
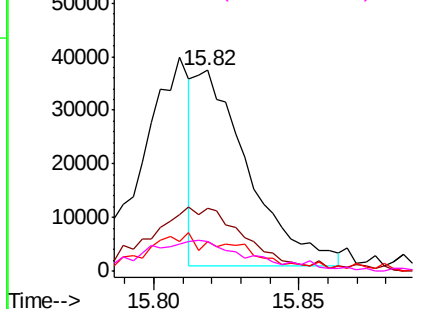


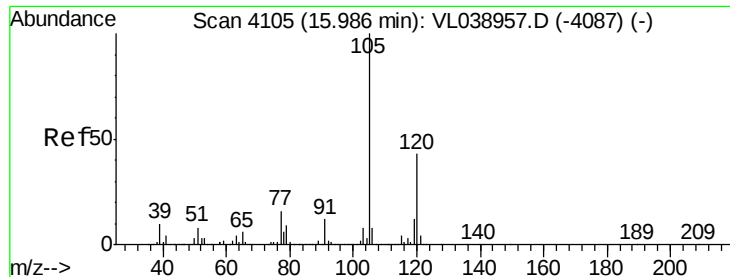
#72
 4-Ethyltoluene
 Concen: 0.194 ppbv
 RT: 15.82 min Scan# 4053
 Delta R.T. -0.01 min
 Lab File: VL039041.D
 Acq: 13 May 2022 17:35

Tgt Ion:105 Resp: 46791
 Ion Ratio Lower Upper
 105 100
 120 62.5 23.4 35.0#
 91 38.3 10.6 16.0#
 77 32.2 12.5 18.7#



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: 0.407 ppbv

RT: 15.97

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

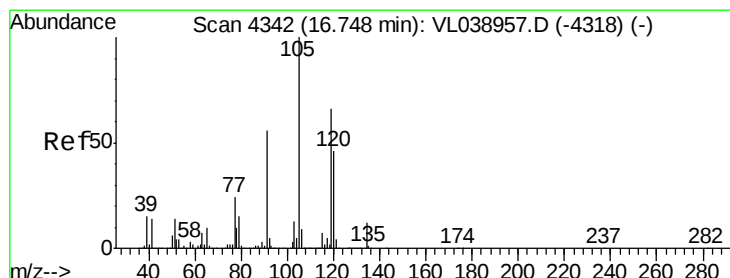
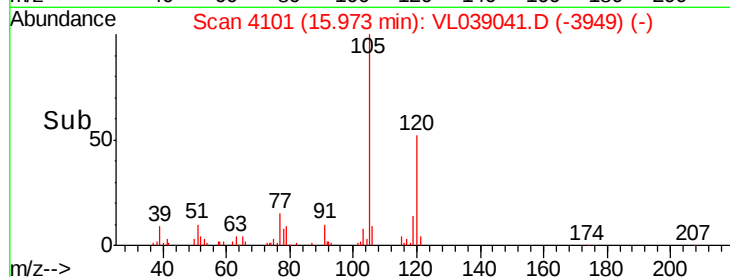
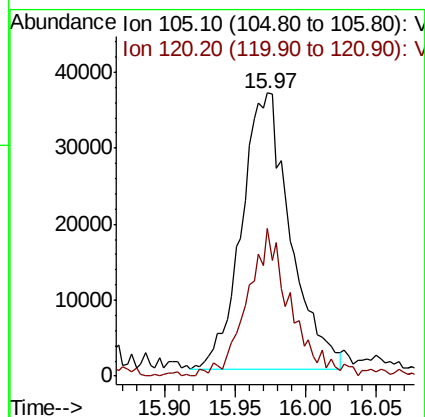
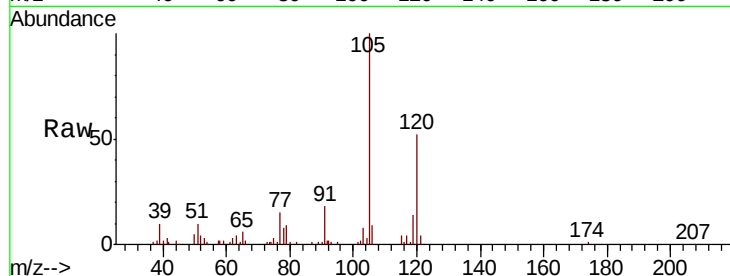
Acq: 13 May 2022 17:35

Tot Ion:105 Resp: 88445

Ion Ratio Lower Upper

105 100

120 53.2 34.4 51.6#



#74

1,2,4-Trimethylbenzene

Concen: 0.413 ppbv

RT: 16.73 min Scan# 4337

Delta R.T. -0.02 min

Lab File: VL039041.D

Acq: 13 May 2022 17:35

Tgt Ion:105 Resp: 98318

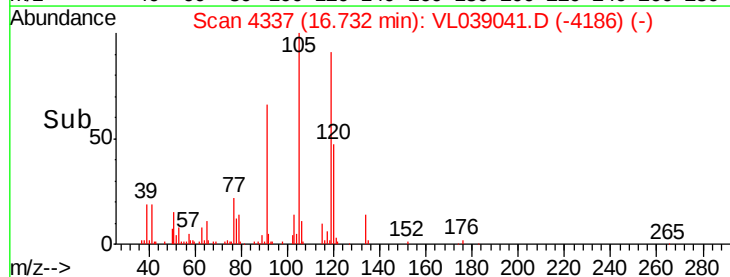
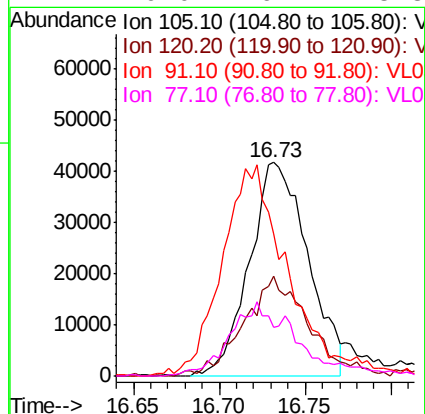
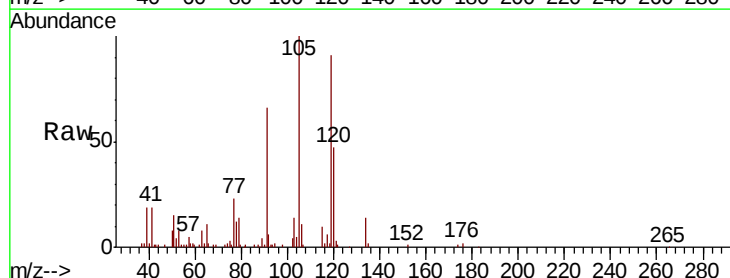
Ion Ratio Lower Upper

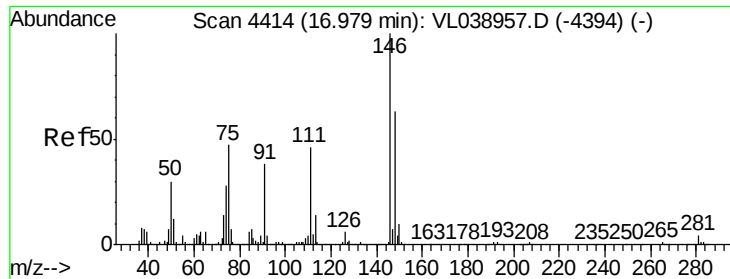
105 100

120 44.1 36.9 55.3

91 59.3 45.0 67.4

77 20.0 19.2 28.8





#75

1,3-Dichlorobenzene

Concen: 0.427 ppbv

RT: 16.97 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 May 2022 17:35

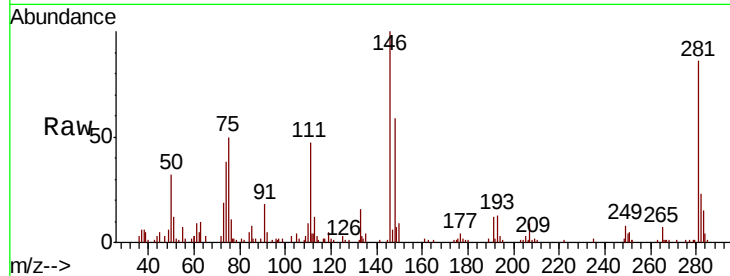
Tot Ion:146 Resp: 55673

Ion Ratio Lower Upper

146 100

111 56.0 24.1 72.2

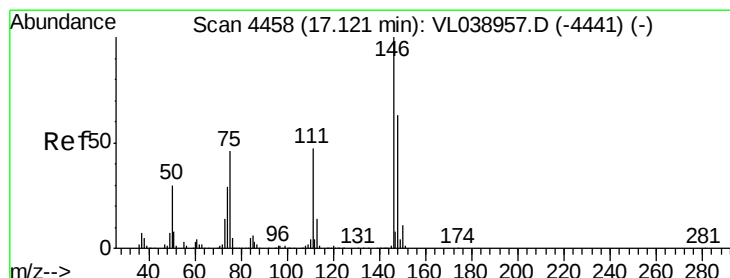
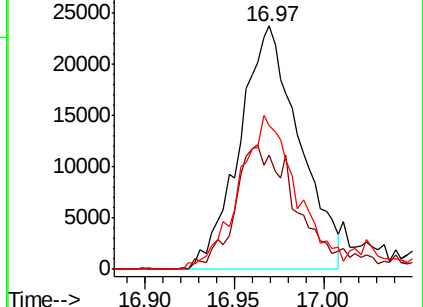
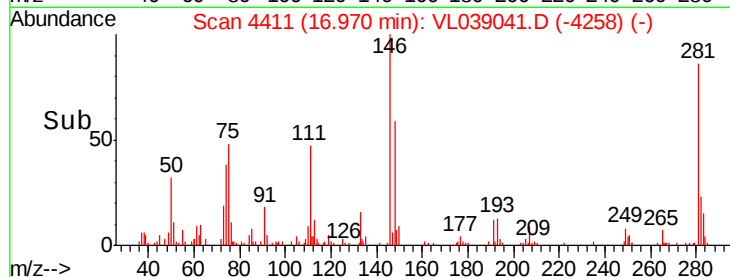
148 67.2 32.4 97.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.330 ppbv

RT: 17.11 min Scan# 4456

Delta R.T. -0.01 min

Lab File: VL039041.D

Acq: 13 May 2022 17:35

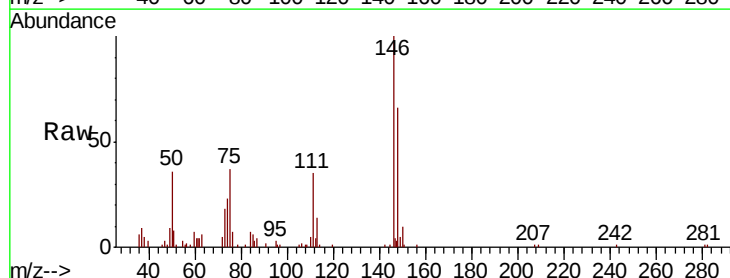
Tgt Ion:146 Resp: 42334

Ion Ratio Lower Upper

146 100

111 62.1 23.6 71.0

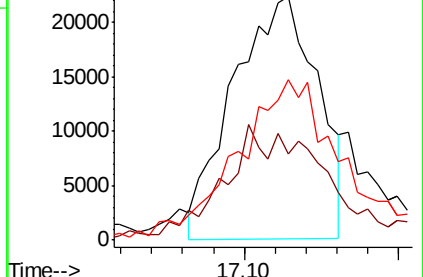
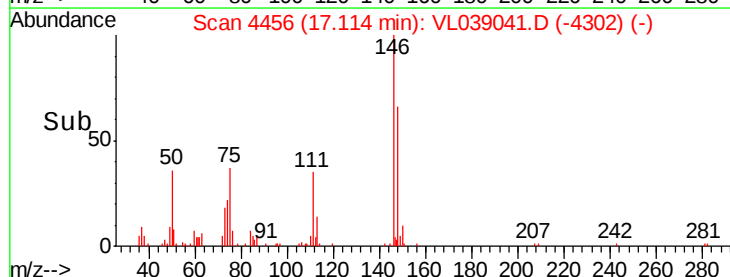
148 88.6 32.2 96.6

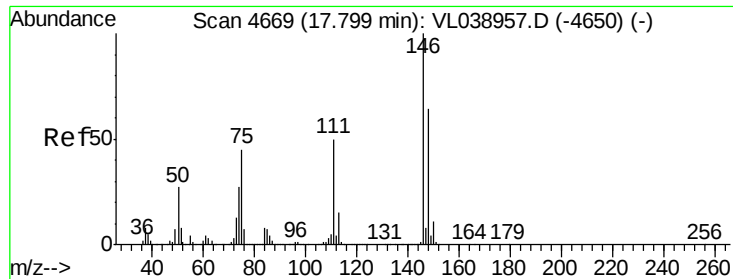


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

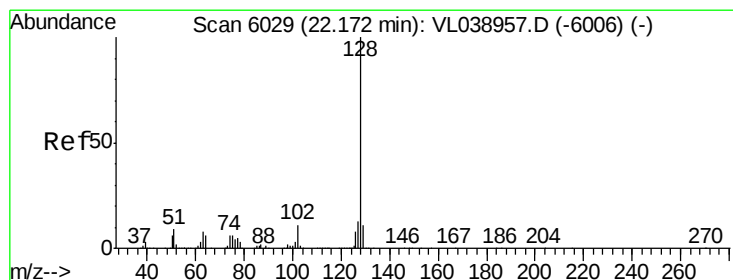
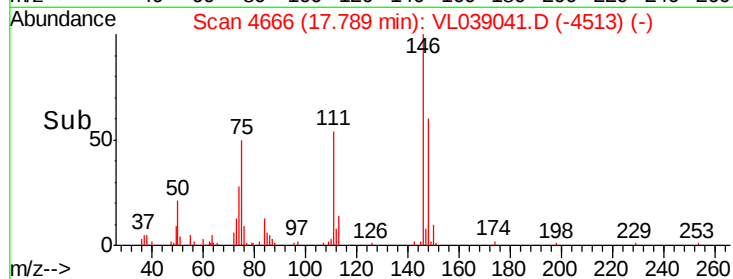
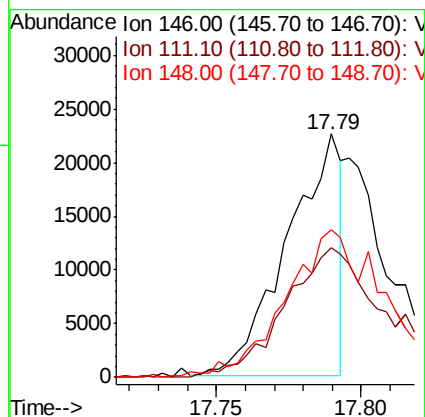
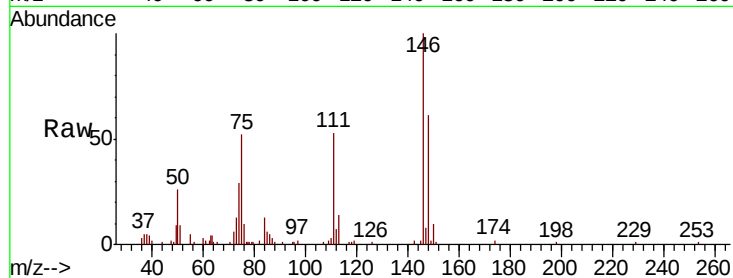
Ion 148.00 (147.70 to 148.70): V





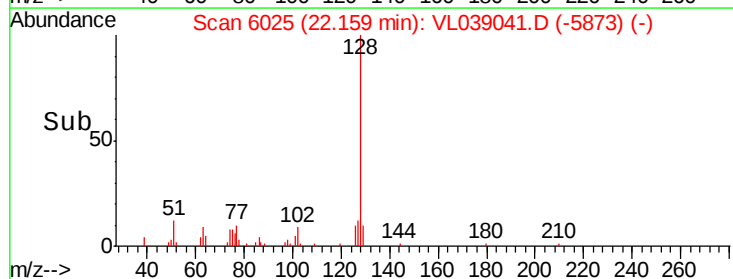
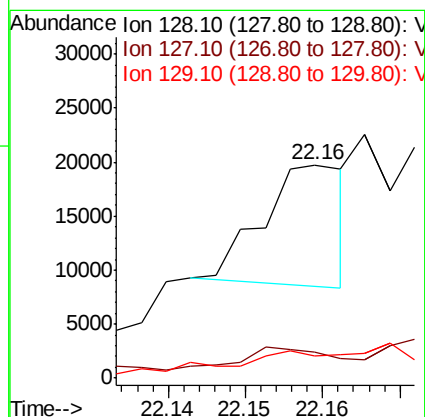
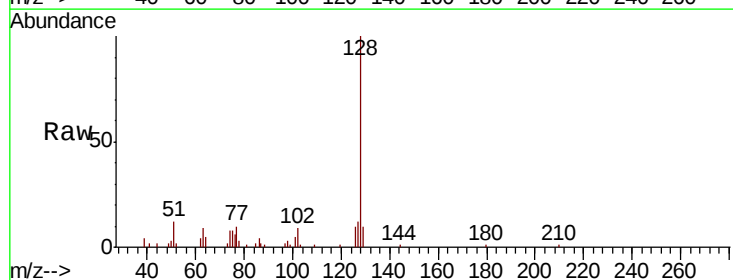
#77
 1,2-Dichlorobenzene
 Concen: 0.225 ppbv
 RT: 17.79 min
 Delta R.T. MSVOA.L
 Lab File: ClientSampleId:
 Acq: 13 May 2022 17:35

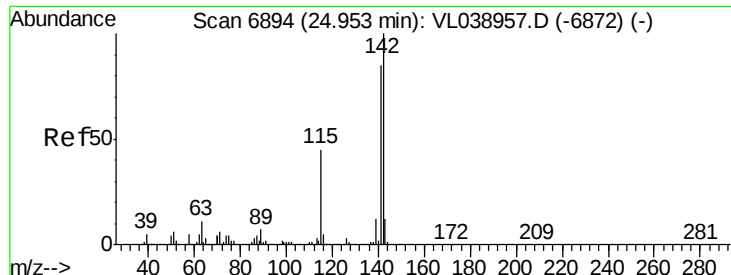
Tot Ion:146 Resp: 29057
 Ion Ratio Lower Upper
 146 100
 111 108.8 25.3 75.9#
 148 123.4 32.3 96.9#



#79
 Naphthalene
 Concen: 0.042 ppbv
 RT: 22.16 min Scan# 6025
 Delta R.T. -0.01 min
 Lab File: VL039041.D
 Acq: 13 May 2022 17:35

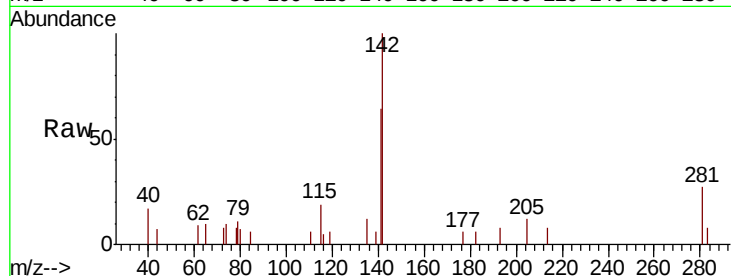
Tgt Ion:128 Resp: 8209
 Ion Ratio Lower Upper
 128 100
 127 12.6 10.2 15.2
 129 5.4 8.9 13.3#





#80
 Naphthalene, 2-methyl-
 Concen: 0.112 ppbv
 RT: 24.98
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 0.4 MDL
 Acq: 13 May 2022 17:35

Tot Ion:	142	Resp:	6571
Ion	Ratio	Lower	Upper
142	100		
141	105.5	70.8	106.2
115	63.0	35.1	52.7#



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

