

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033022\
 Data File : VL038798.D
 Acq On : 30 Mar 2022 17:23
 Operator : SY/AP
 Sample : N2169-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 31 04:11:55 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	812463	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2330520	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2146472	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1608717	9.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	240576	2.203	ppbv 100
3) Chlorodifluoromethane	2.99	51	26265	0.306	ppbv # 82
4) Chloromethane	3.14	50	26647	0.566	ppbv 99
5) Vinyl Chloride	3.26	62	3479	0.073	ppbv 99
7) Chloroethane	3.56	64	3086	0.195	ppbv 99
8) Dichlorotetrafluoroethane	3.05	85	240576	2.206	ppbv # 14
9) Propene	3.01	41	1977563	47.736	ppbv 95
10) Heptane	8.11	43	297451	3.004	ppbv # 26
11) Trichlorofluoromethane	3.95	101	27207	0.282	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	4795	0.065	ppbv # 68
13) Ethanol	3.60	45	700792	153.351	ppbv 99
15) Acetone	3.84	43	11179925	159.474	ppbv # 86
16) 1,3-Butadiene	3.30	39	1299476	32.662	ppbv # 40
17) tert-Butyl alcohol	4.29	59	513991	8.395	ppbv 99
19) Isopropyl Alcohol	3.97	45	503522	12.954	ppbv # 91
20) Methylene Chloride	4.35	84	70737	2.396	ppbv 97
21) Allyl Chloride	4.39	41	26845	0.532	ppbv # 1
23) Vinyl Acetate	5.05	43	64755	0.954	ppbv # 1
25) Ethyl Acetate	5.68	43	756647	4.287	ppbv # 78
26) Hexane	5.68	57	1043956	13.213	ppbv # 31
27) Carbon Disulfide	4.55	76	1519404	19.604	ppbv 98
28) Methyl tert-Butyl Ether	5.03	73	31330	0.532	ppbv 98
29) Chloroform	5.75	83	22297	0.176	ppbv 94
30) Cyclohexane	7.12	84	96603	1.406	ppbv 94
32) 1,1,1-Trichloroethane	6.50	97	66616	0.546	ppbv 99
34) 2-Butanone	5.24	43	1959495	21.243	ppbv 94
36) Benzene	6.89	78	1521190	8.457	ppbv 99
39) 1,2-Dichloropropane	7.17	63	501611	7.134	ppbv # 28
40) 1,4-Dioxane	7.83	88	1125	0.046	ppbv # 1
41) Tetrahydrofuran	6.00	42	469211	6.835	ppbv # 38
42) Bromodichloromethane	7.79	83	7939	0.058	ppbv # 33
43) Methyl Methacrylate	8.17	69	22926	0.343	ppbv # 1
44) 2,2,4-Trimethylpentane	7.86	57	3648658	12.082	ppbv # 88
50) 4-Methyl-2-Pentanone	8.73	43	590104	3.441	ppbv 97
51) 2-Hexanone	10.11	43	914540	7.425	ppbv # 96
52) Tetrachloroethene	11.21	164	250090	3.800	ppbv 95
53) Toluene	9.80	91	1802716	9.328	ppbv 99
58) Ethyl Benzene	12.70	91	485544	1.935	ppbv 98
59) m/p-Xylene	12.95	91	983610	4.481	ppbv 94
60) o-Xylene	13.68	91	463833	2.226	ppbv 93
61) Styrene	13.52	104	156997	1.389	ppbv 96

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 ALS Vial : 1 Sample Multiplier: 1

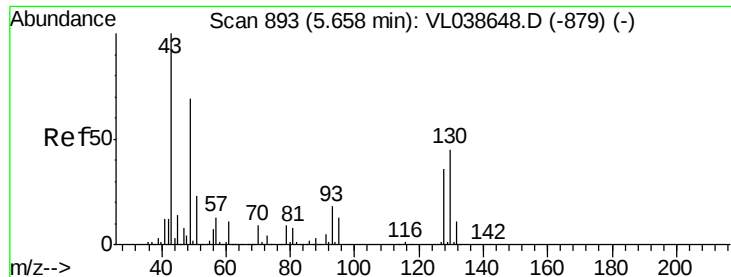
Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 31 04:11:55 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

62) Isopropylbenzene	14.65	105	295477	0.943	ppbv	99
64) n-propylbenzene	15.55	120	18223	0.222	ppbv #	1
65) tert-Butylbenzene	16.75	119	24682	0.088	ppbv #	1
67) sec-Butylbenzene	17.28	105	20334	0.051	ppbv	95
69) p-Isopropyltoluene	17.64	119	49734	0.151	ppbv	95
70) n-Butylbenzene	18.54	91	23901	0.071	ppbv #	32
72) 4-Ethyltoluene	15.83	105	126212	0.513	ppbv	97
73) 1,3,5-Trimethylbenzene	15.99	105	113337	0.506	ppbv	97
74) 1,2,4-Trimethylbenzene	16.75	105	331747	1.359	ppbv #	74
79) Naphthalene	22.18	128	15312	0.082	ppbv #	95
80) Naphthalene,2-methyl-	24.97	142	3232	0.065	ppbv #	84

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 30 Mar 2022 17:23

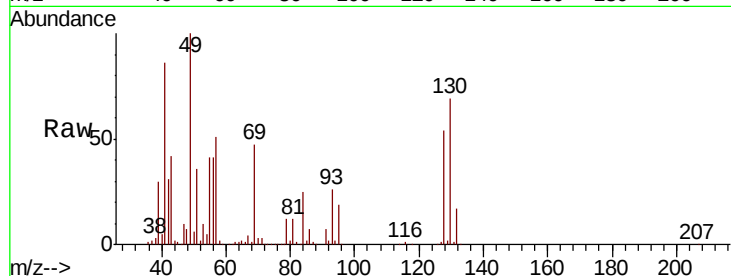
Tot Ion: 49 Resp: 812463

Ion Ratio Lower Upper

49 100

128 55.2 26.2 78.6

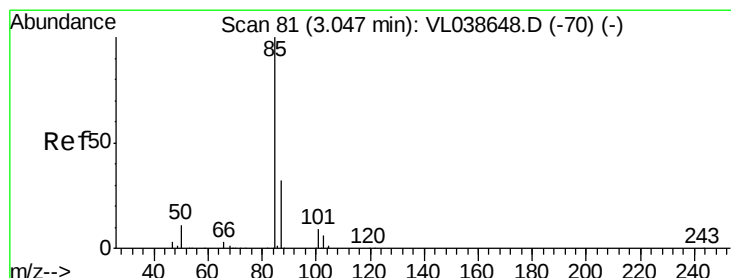
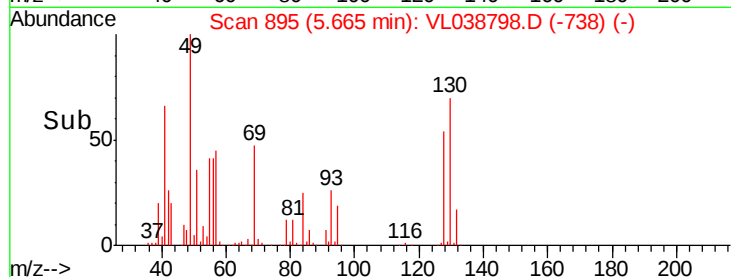
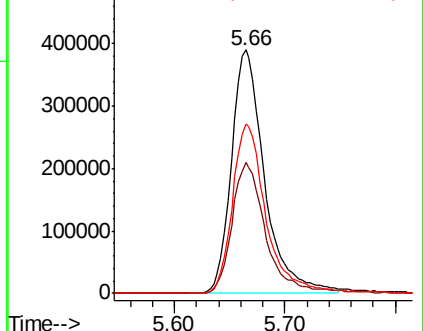
130 71.2 33.7 101.1



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: 2.203 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL038798.D

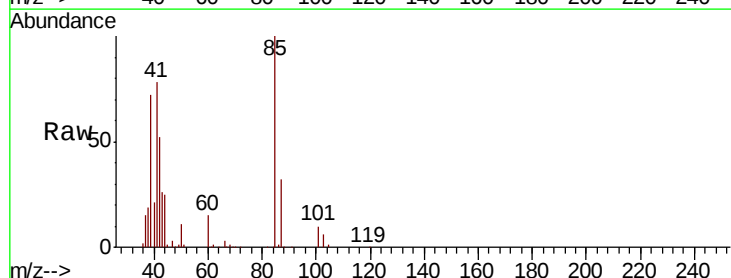
Acq: 30 Mar 2022 17:23

Tgt Ion: 85 Resp: 240576

Ion Ratio Lower Upper

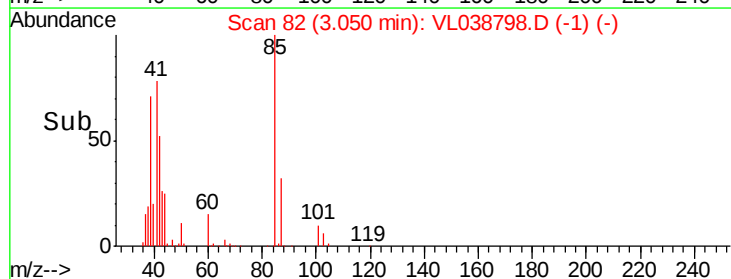
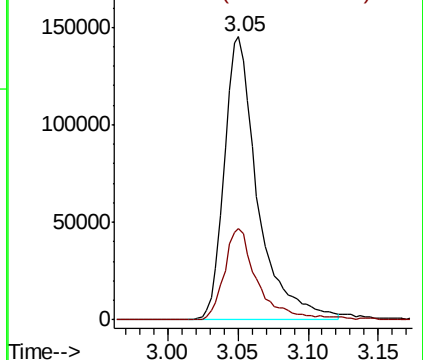
85 100

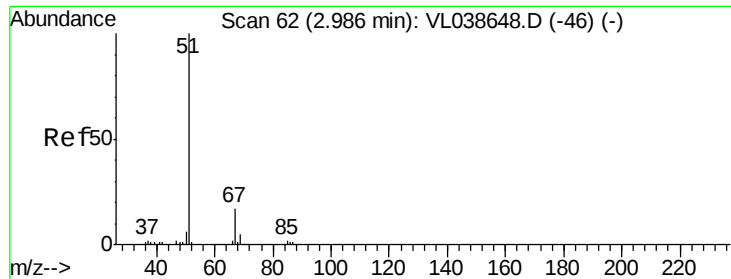
87 32.5 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.306 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

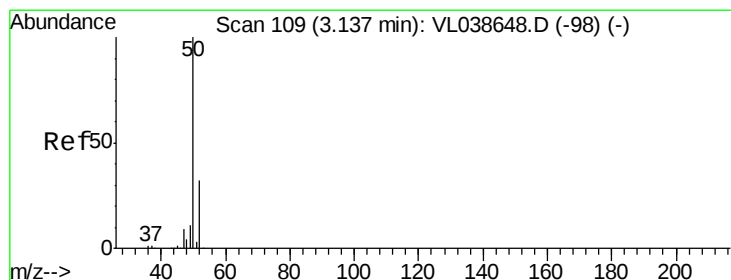
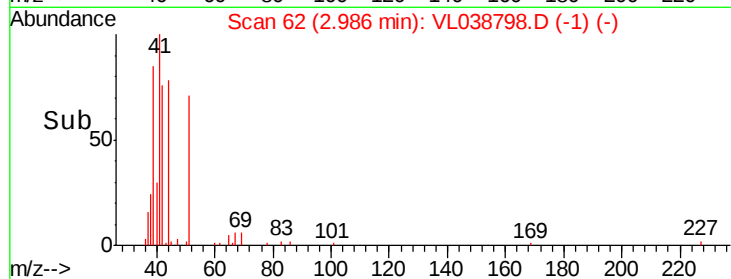
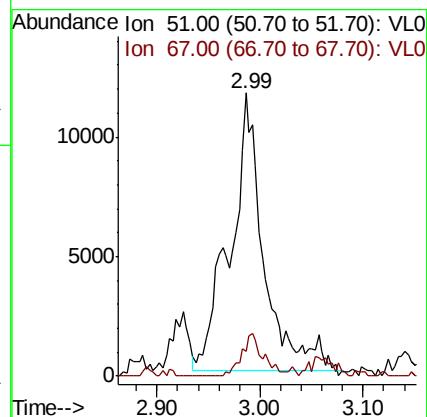
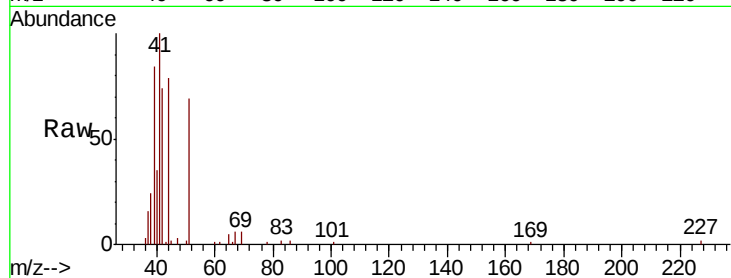
Acq: 30 Mar 2022 17:23

Tot Ion: 51 Resp: 26265

Ion Ratio Lower Upper

51 100

67 9.8 14.1 21.1#



#4

Chloromethane

Concen: 0.566 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL038798.D

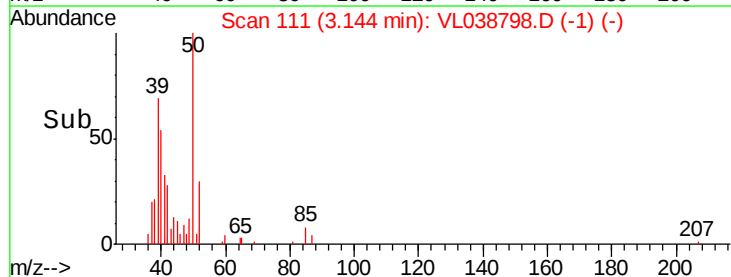
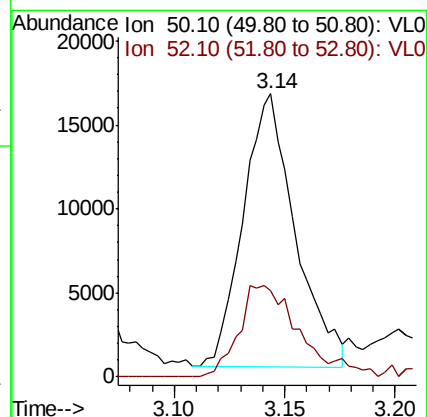
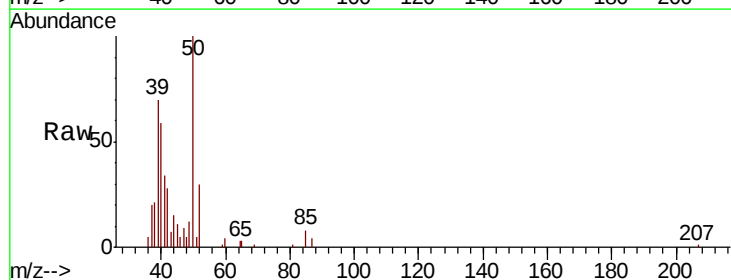
Acq: 30 Mar 2022 17:23

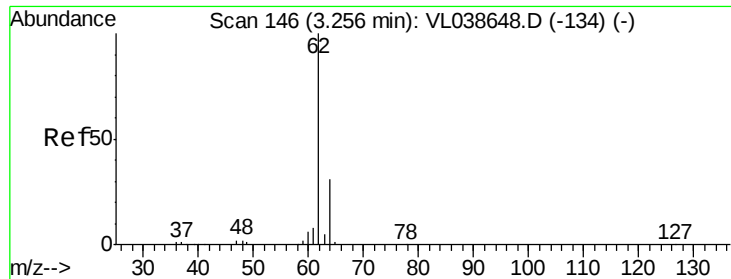
Tgt Ion: 50 Resp: 26647

Ion Ratio Lower Upper

50 100

52 31.5 25.5 38.3





#5

Vinyl Chloride

Concen: 0.073 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

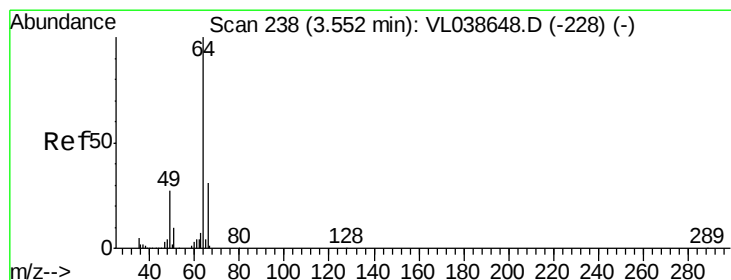
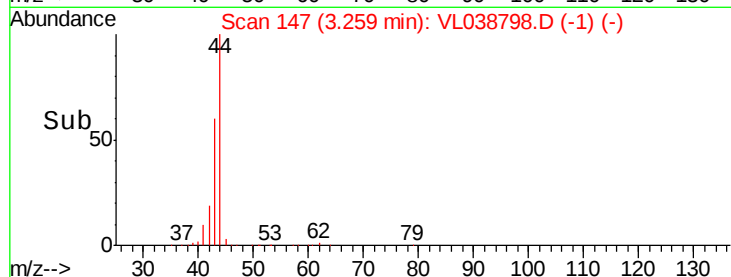
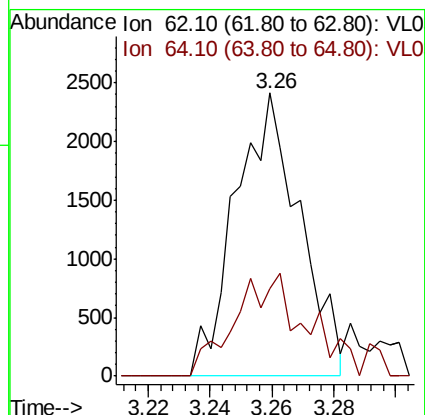
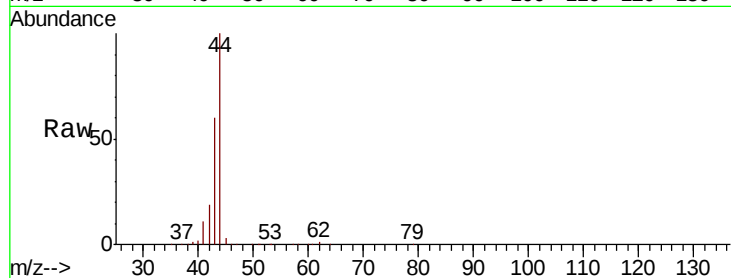
Acq: 30 Mar 2022 17:23

Tot Ion: 62 Resp: 3479

Ion Ratio Lower Upper

62 100

64 30.8 25.0 37.4



#7

Chloroethane

Concen: 0.195 ppbv

RT: 3.56 min Scan# 240

Delta R.T. 0.01 min

Lab File: VL038798.D

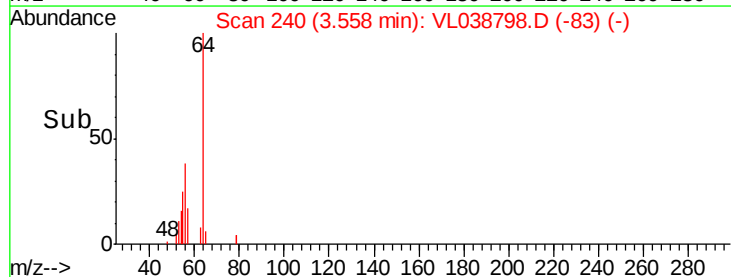
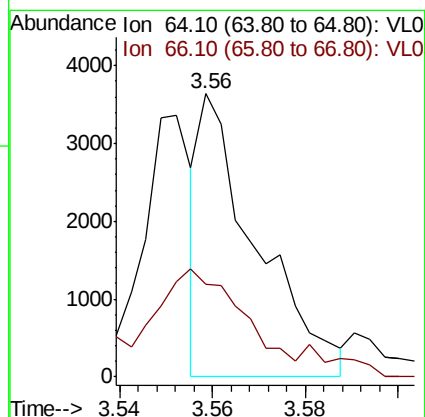
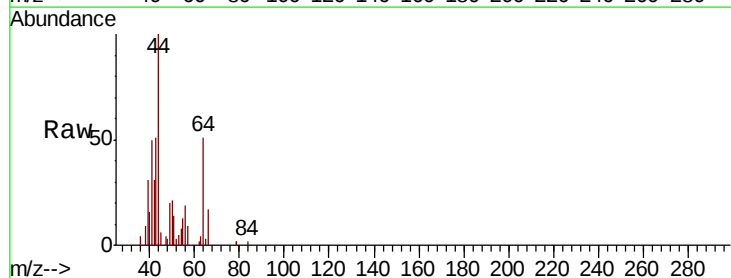
Acq: 30 Mar 2022 17:23

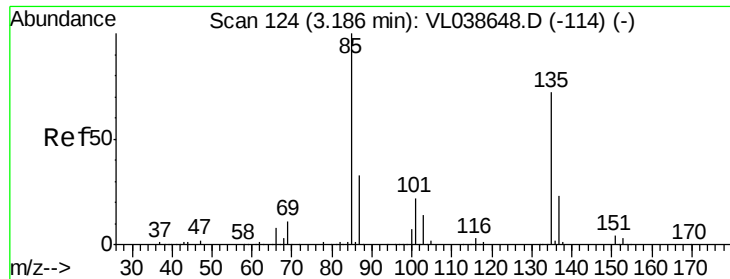
Tgt Ion: 64 Resp: 3086

Ion Ratio Lower Upper

64 100

66 30.7 25.0 37.6





#8

Dichlorotetrafluoroethane

Concen: 2.206 ppbv

RT: 3.05 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

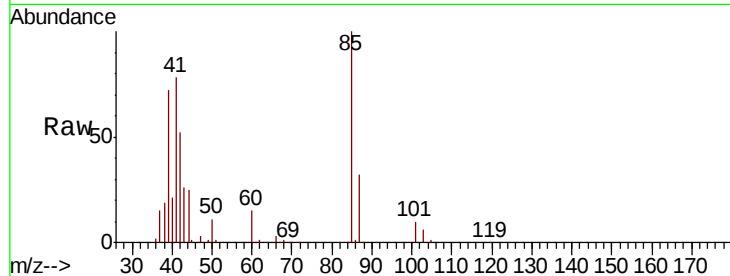
Acq: 30 Mar 2022 17:23

Tot Ion: 85 Resp: 240576

Ion Ratio Lower Upper

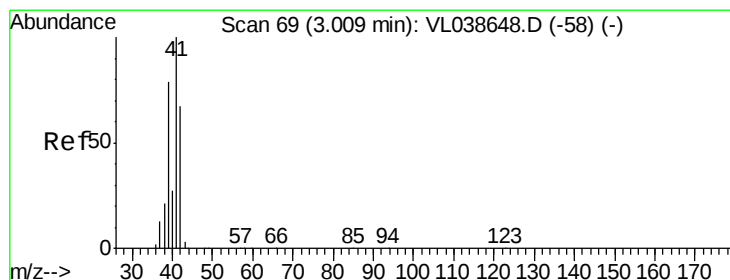
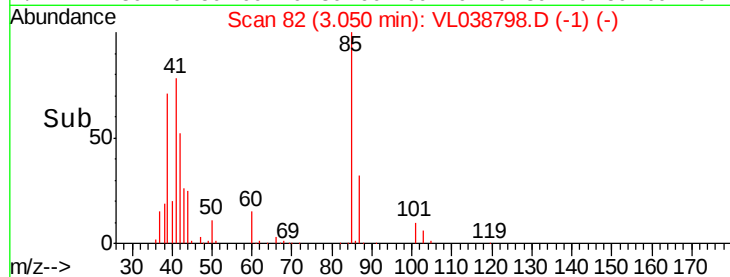
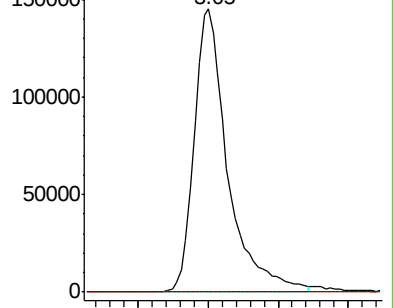
85 100

135 0.1 57.8 86.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 47.736 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL038798.D

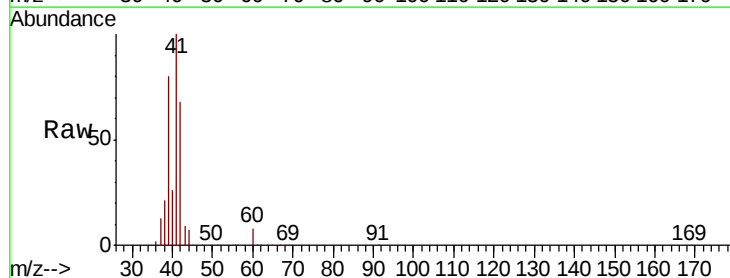
Acq: 30 Mar 2022 17:23

Tgt Ion: 41 Resp: 1977563

Ion Ratio Lower Upper

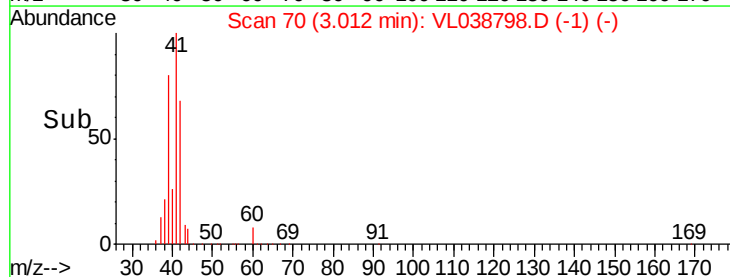
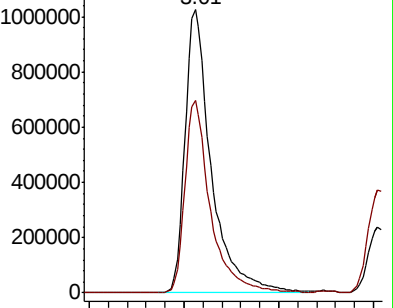
41 100

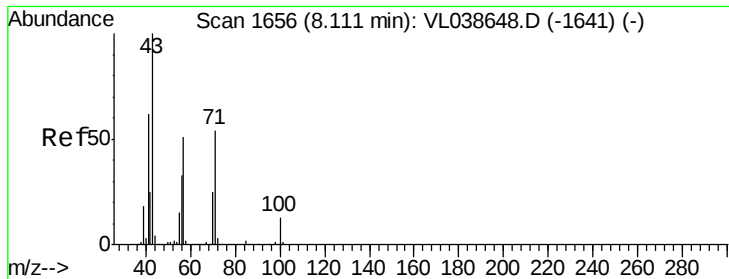
42 66.4 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 3.004 ppbv

RT: 8.11 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

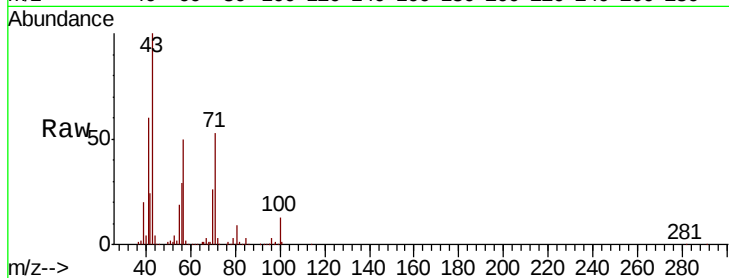
Acq: 30 Mar 2022 17:23

Tot Ion: 43 Resp: 297451

Ion Ratio Lower Upper

43 100

57 0.0 41.4 62.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.11

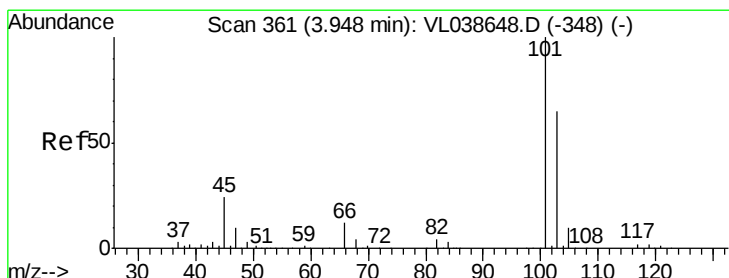
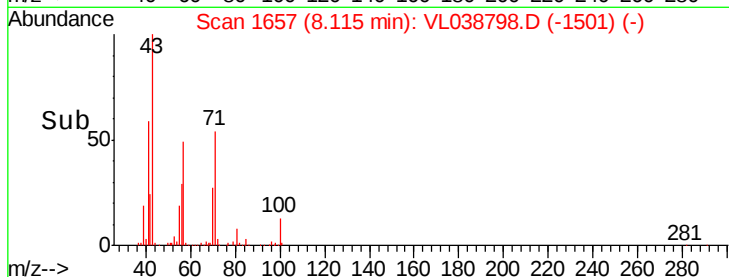
150000

100000

50000

0

Time-->



#11

Trichlorofluoromethane

Concen: 0.282 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.00 min

Lab File: VL038798.D

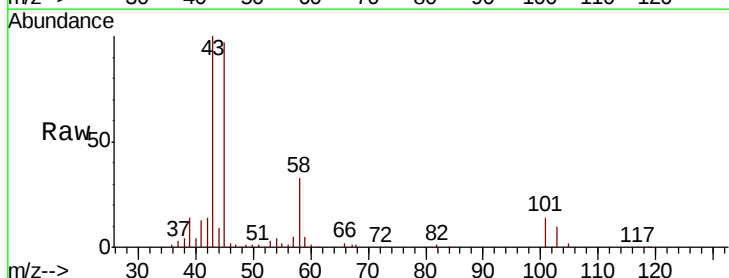
Acq: 30 Mar 2022 17:23

Tgt Ion: 101 Resp: 27207

Ion Ratio Lower Upper

101 100

103 66.8 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.95

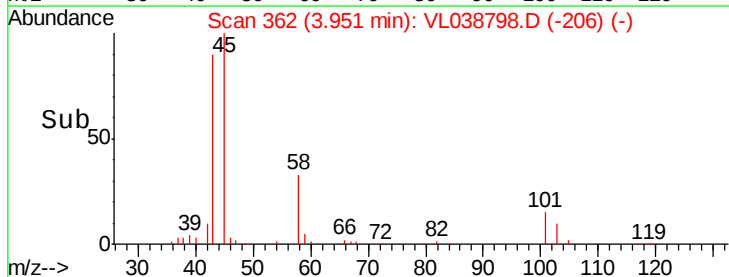
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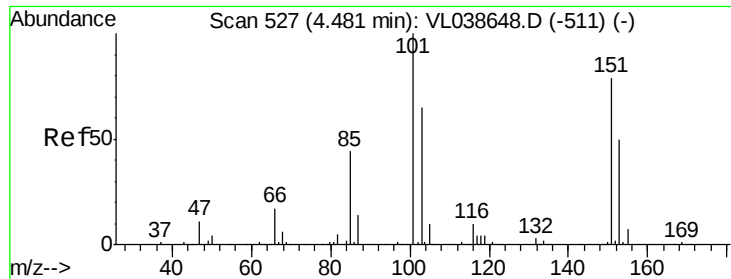
10000

5000

0

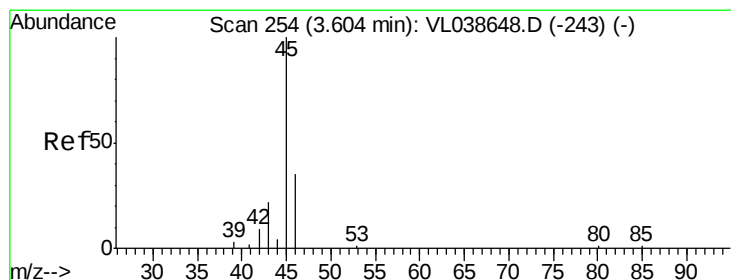
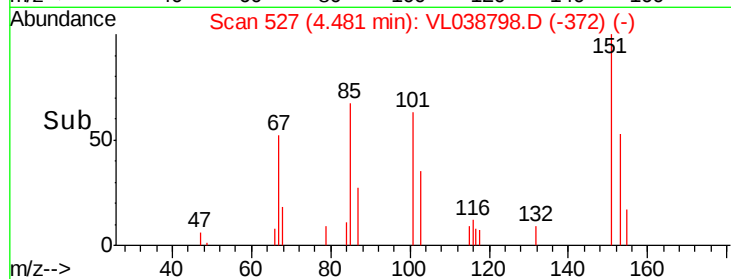
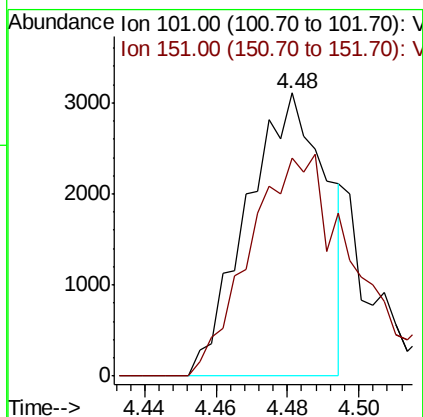
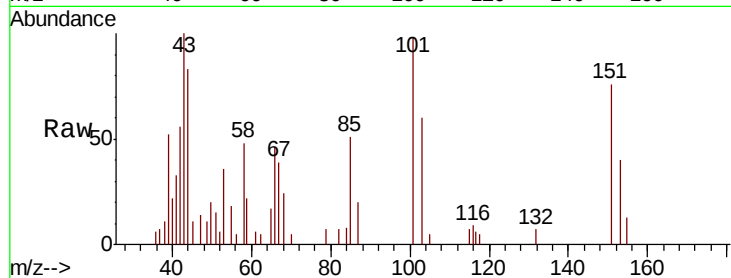
Time-->





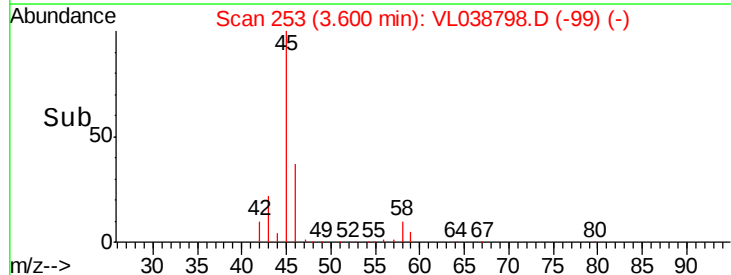
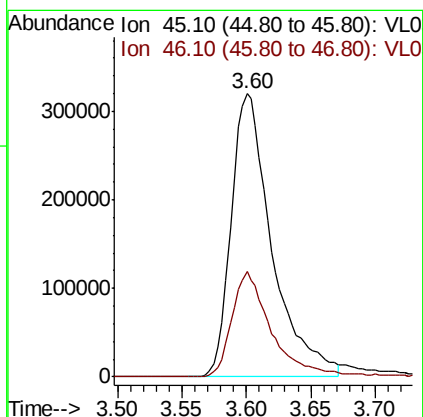
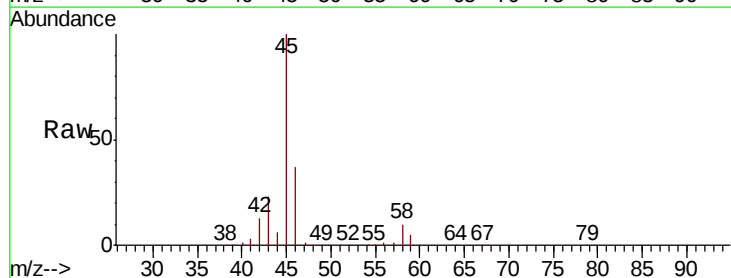
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.065 ppbv
 RT: 4.48
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 30 Mar 2022 17:23

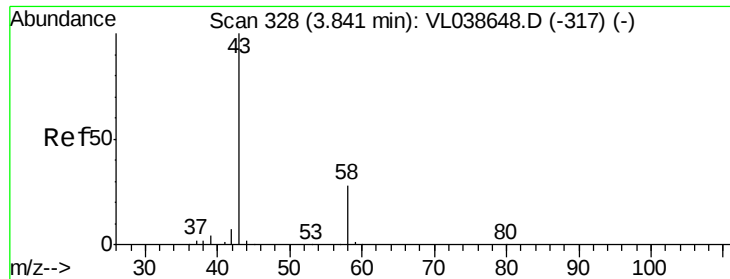
Tot Ion: 101 Resp: 4795
 Ion Ratio Lower Upper
 101 100
 151 106.6 62.9 94.3#



#13
 Ethanol
 Concen: 153.351 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.00 min
 Lab File: VL038798.D
 Acq: 30 Mar 2022 17:23

Tgt Ion: 45 Resp: 700792
 Ion Ratio Lower Upper
 45 100
 46 37.4 15.1 60.5





#15

Acetone

Concen: 159.474 ppbv

RT: 3.84 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

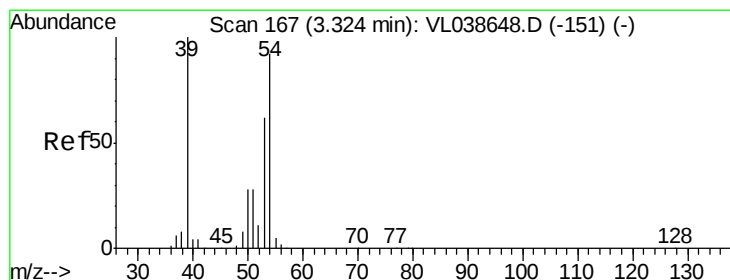
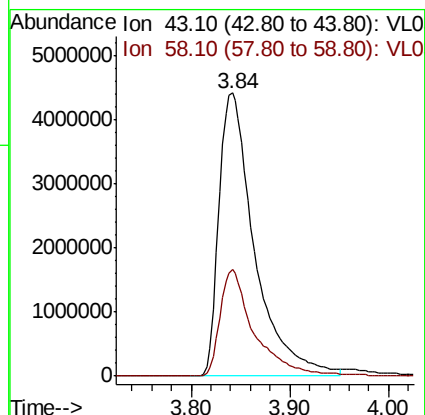
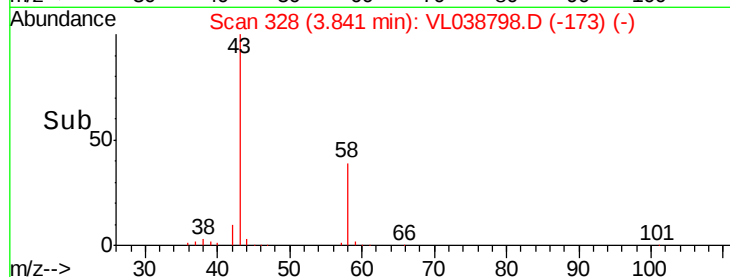
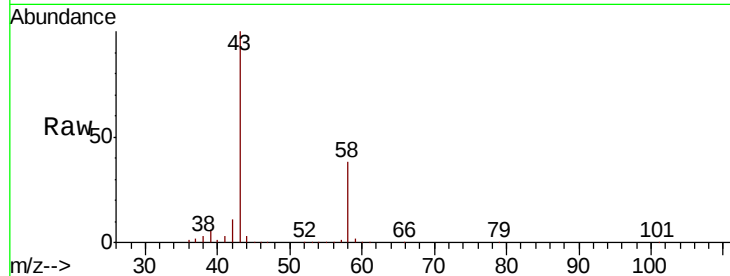
Acq: 30 Mar 2022 17:23

Tot Ion: 43 Resp: 11179925

Ion Ratio Lower Upper

43 100

58 36.5 23.3 34.9#



#16

1,3-Butadiene

Concen: 32.662 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.02 min

Lab File: VL038798.D

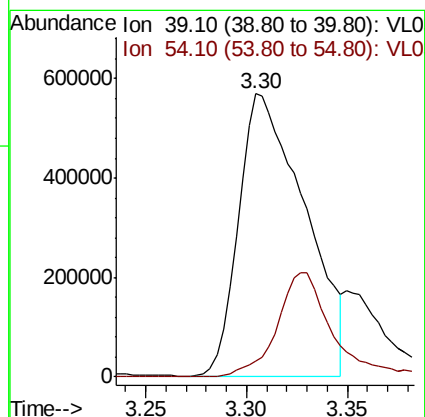
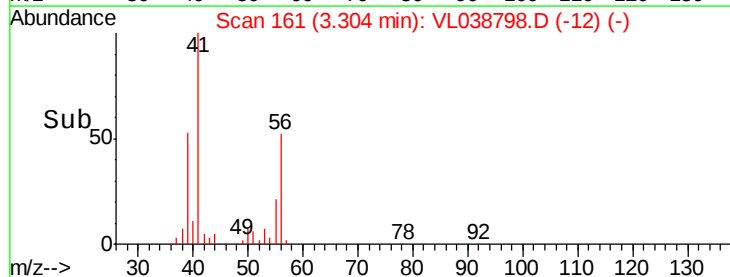
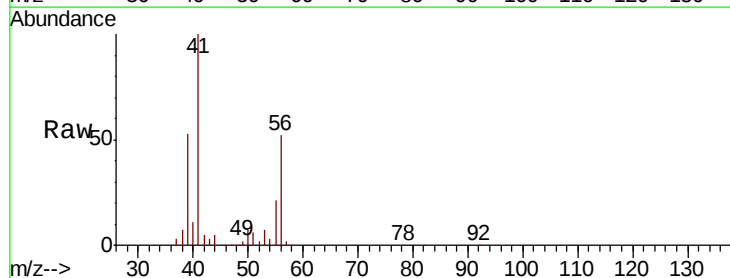
Acq: 30 Mar 2022 17:23

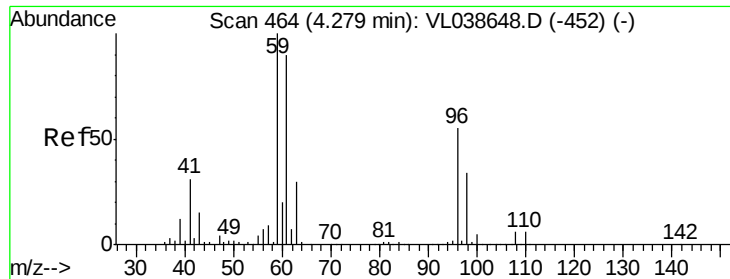
Tgt Ion: 39 Resp: 1299476

Ion Ratio Lower Upper

39 100

54 31.0 69.1 103.7#





#17

tert-Butyl alcohol

Concen: 8.395 ppbv

RT: 4.29 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

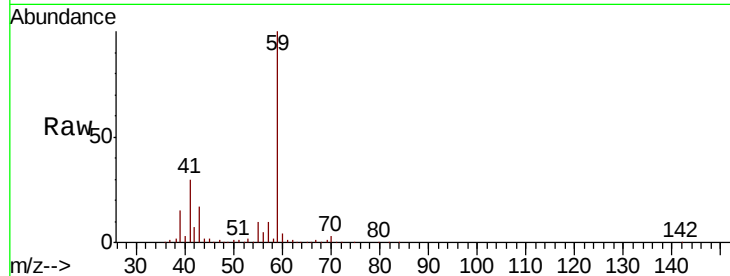
Acq: 30 Mar 2022 17:23

Tot Ion: 59 Resp: 513991

Ion Ratio Lower Upper

59 100

57 10.5 8.2 12.2



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

250000

200000

150000

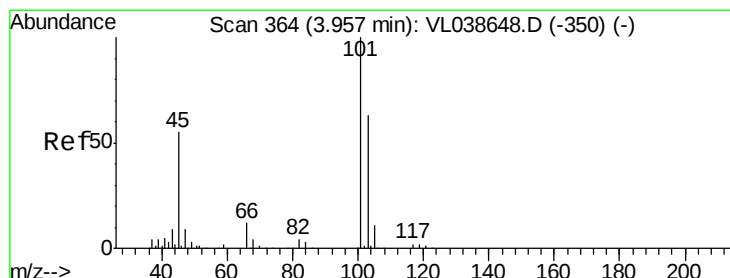
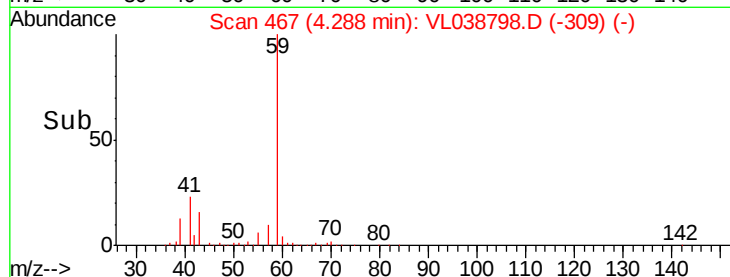
100000

50000

0

4.20 4.30 4.40

Time-->



#19

Isopropyl Alcohol

Concen: 12.954 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL038798.D

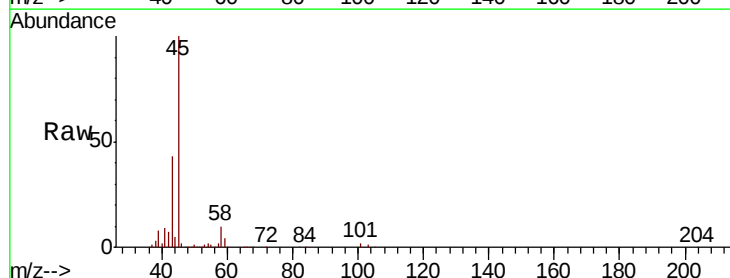
Acq: 30 Mar 2022 17:23

Tgt Ion: 45 Resp: 503522

Ion Ratio Lower Upper

45 100

58 0.0 2.3 3.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

600000

500000

400000

300000

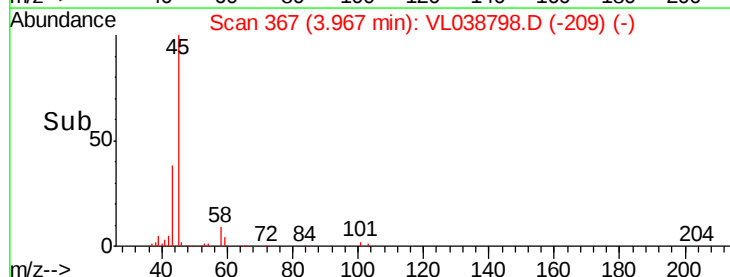
200000

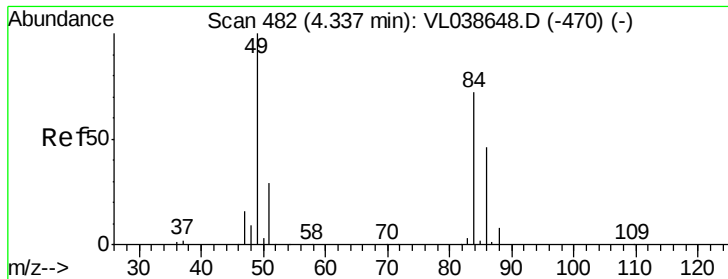
100000

0

3.90 3.95 4.00 4.05

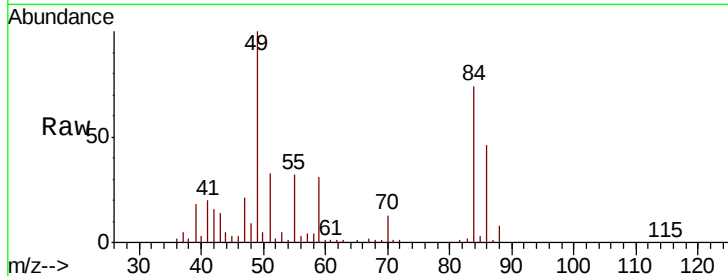
Time-->





#20
Methylene Chloride
Concen: 2.396 ppbv
RT: 4.35 min
Delta R.T. MSVOA.L
Lab File: ClientSampleId :
Acq: 30 Mar 2022 17:23

Tot Ion:	84	Resp:	70737
Ion	Ratio	Lower	Upper
84	100		
49	134.7	111.2	166.8
51	37.2	32.8	49.2
86	62.9	51.4	77.0



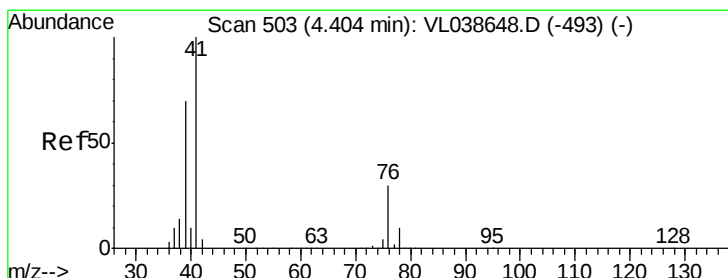
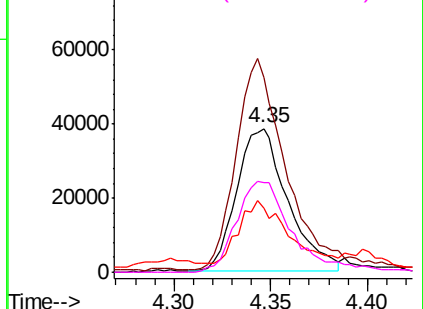
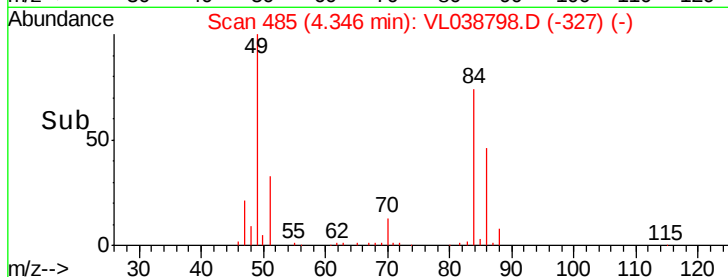
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

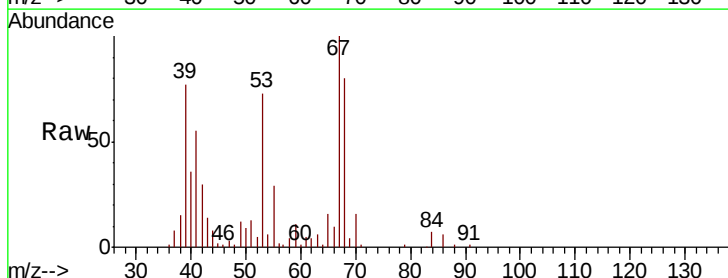
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21
Allyl Chloride
Concen: 0.532 ppbv
RT: 4.39 min Scan# 499
Delta R.T. -0.01 min
Lab File: VL038798.D
Acq: 30 Mar 2022 17:23

Tgt Ion:	41	Resp:	26845
Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.0	37.6#
39	327.5	56.6	85.0#

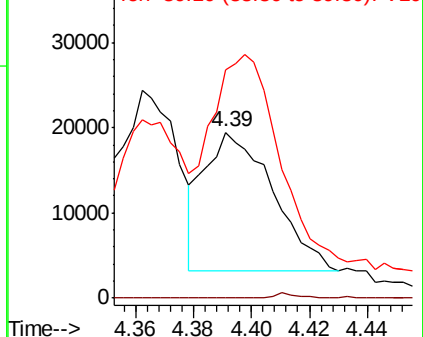
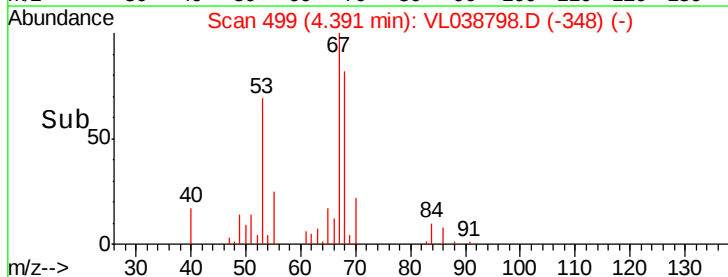


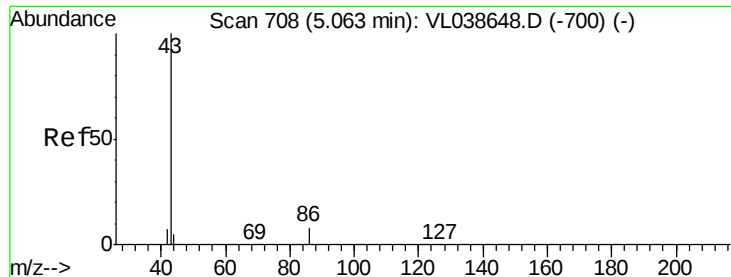
Abundance

Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.954 ppbv

RT: 5.05 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 30 Mar 2022 17:23

Tot Ion: 43 Resp: 64755

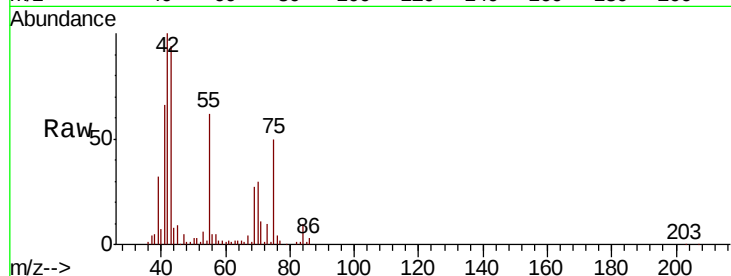
Ion Ratio Lower Upper

43 100

86 3.2 5.6 8.4#

42 116.7 6.8 10.2#

44 2.6 4.2 6.2#

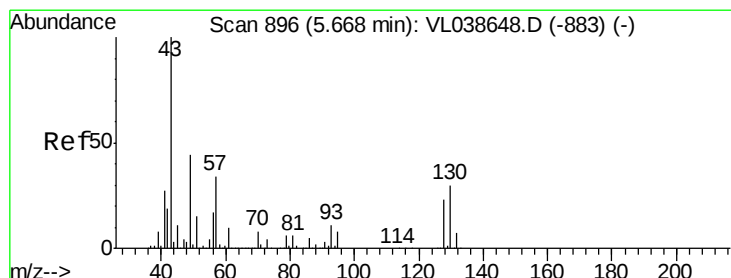
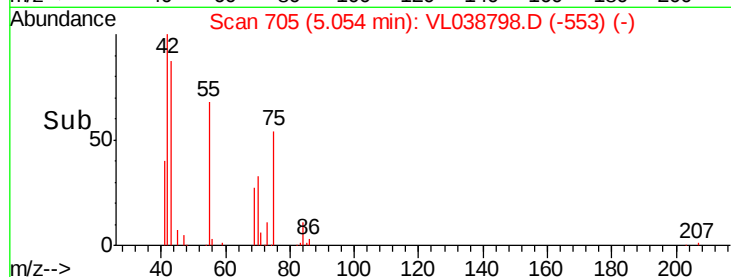
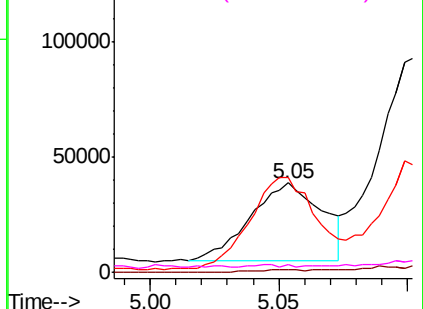


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 4.287 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.01 min

Lab File: VL038798.D

Acq: 30 Mar 2022 17:23

Tgt Ion: 43 Resp: 756647

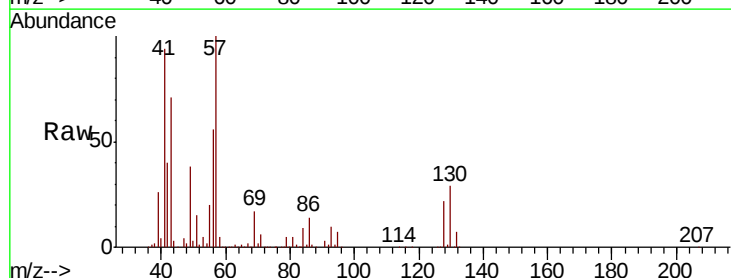
Ion Ratio Lower Upper

43 100

45 0.0 8.2 12.4#

61 0.6 8.3 12.5#

70 4.8 5.6 8.4#

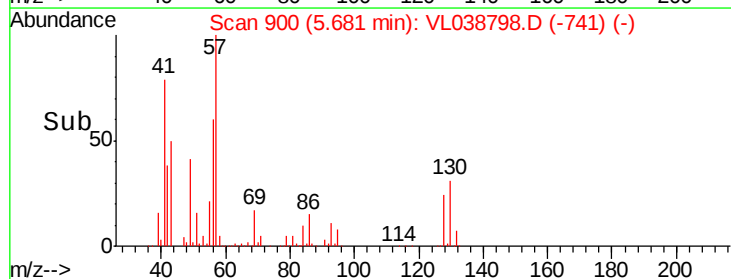
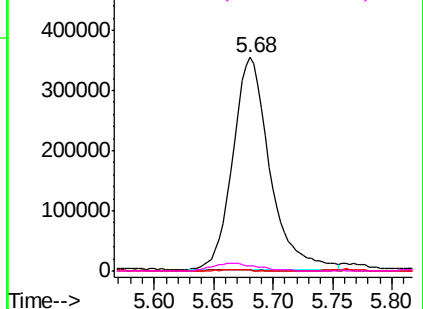


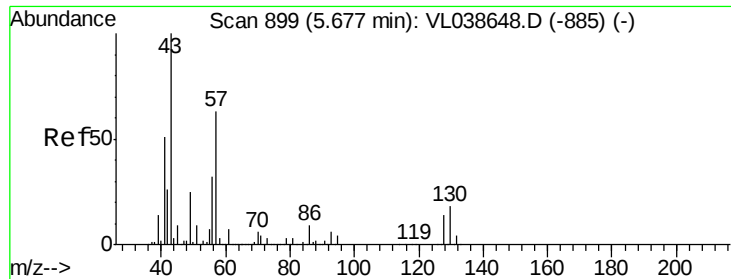
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

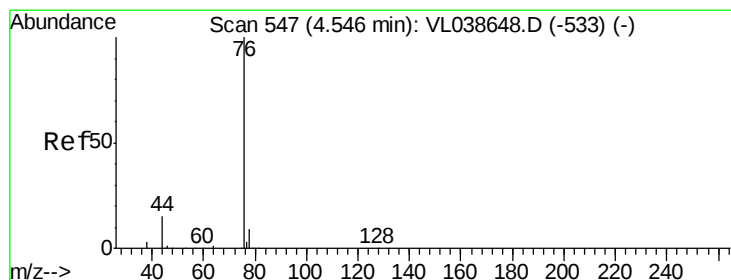
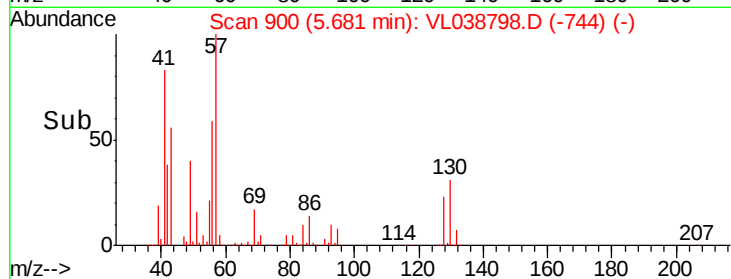
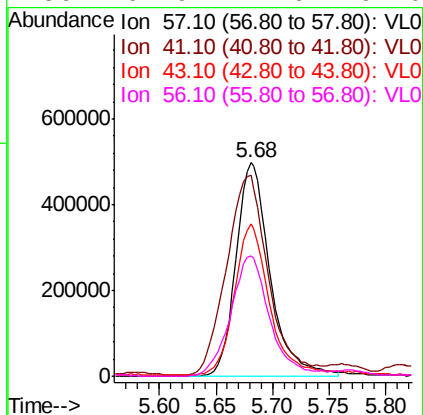
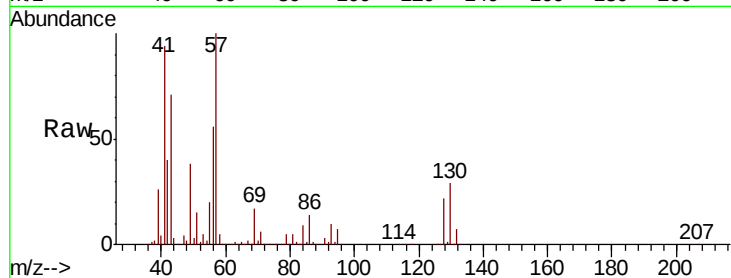




#26
Hexane
Concen: 13.213 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 30 Mar 2022 17:23

Tot Ion: 57 Resp: 1043956

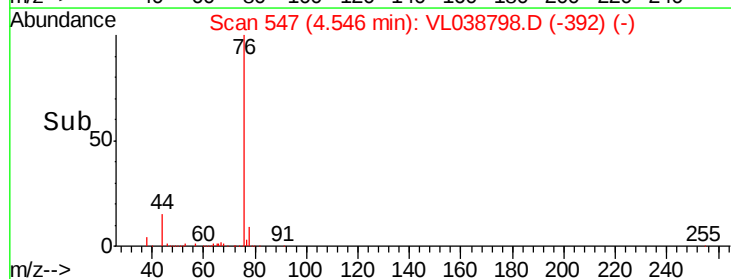
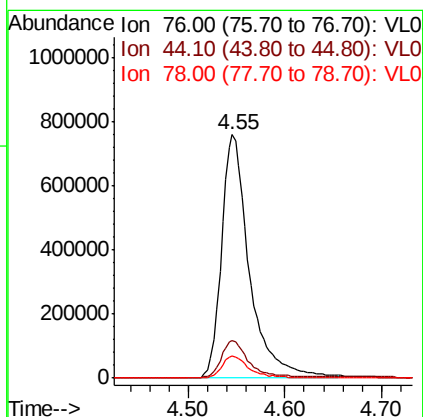
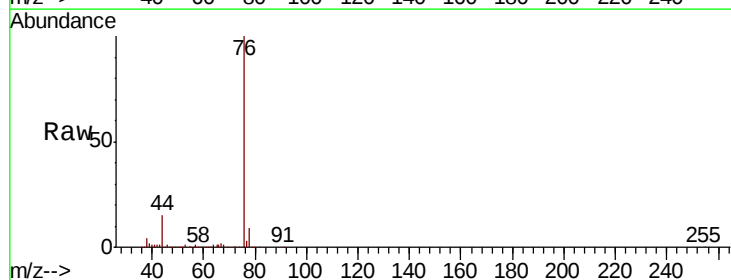
Ion	Ratio	Lower	Upper
57	100		
41	115.0	67.0	100.4#
43	75.5	184.2	276.2#
56	64.9	42.6	64.0#

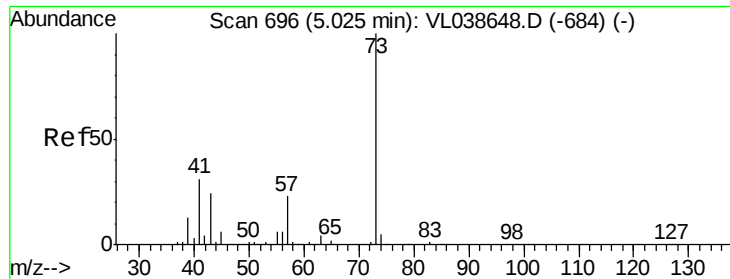


#27
Carbon Disulfide
Concen: 19.604 ppbv
RT: 4.55 min Scan# 547
Delta R.T. -0.00 min
Lab File: VL038798.D
Acq: 30 Mar 2022 17:23

Tgt Ion: 76 Resp: 1519404

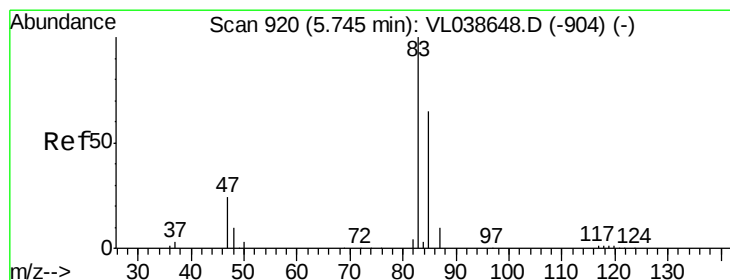
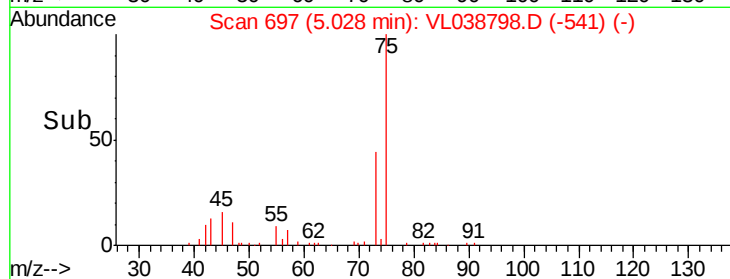
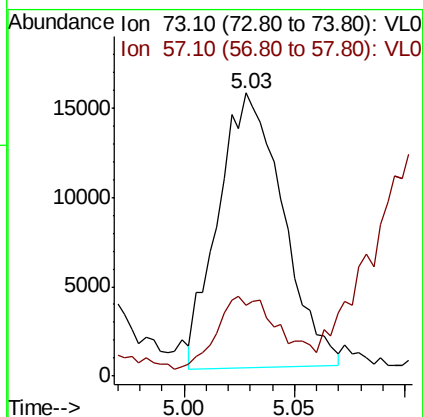
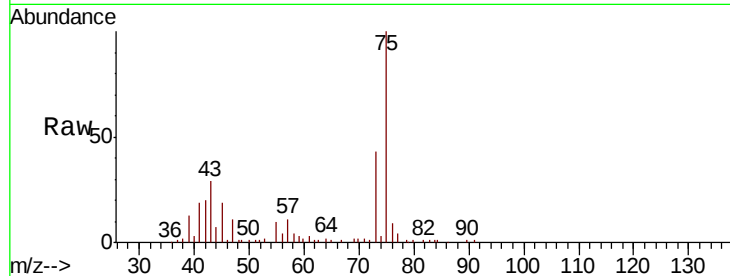
Ion	Ratio	Lower	Upper
76	100		
44	14.9	12.4	18.6
78	9.2	7.8	11.8





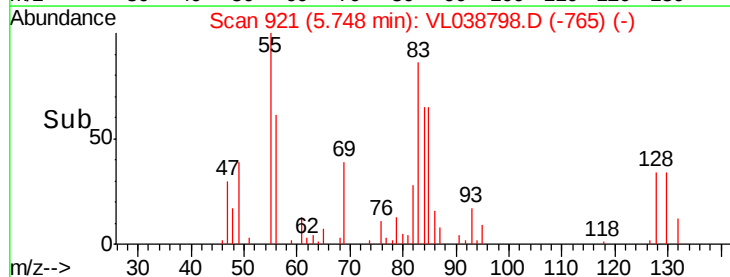
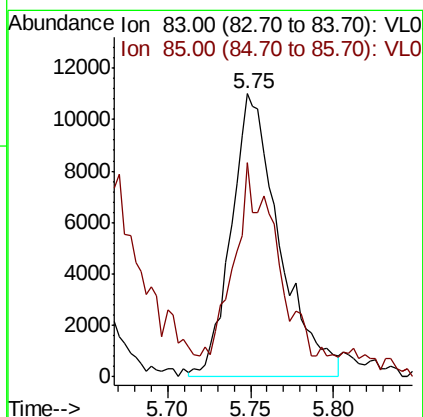
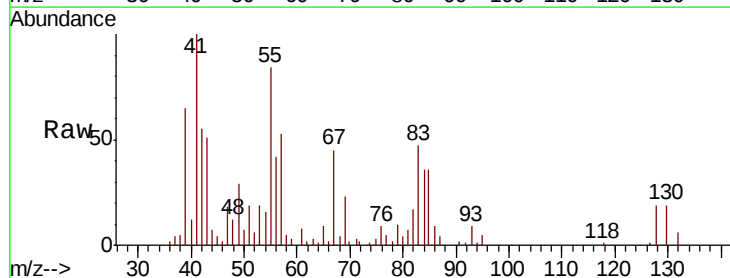
#28
Methvl tert-Butvl Ether
Concen: 0.532 ppbv
RT: 5.03
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 30 Mar 2022 17:23

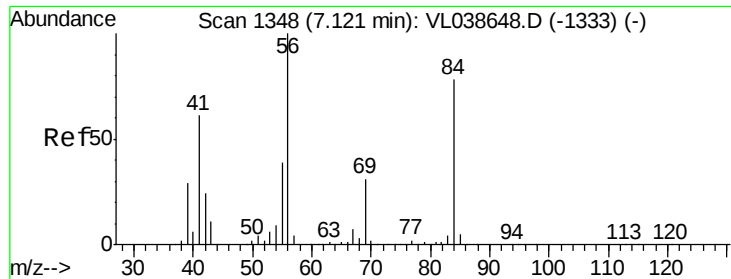
Tot Ion: 73 Resp: 31330
Ion Ratio Lower Upper
73 100
57 22.8 19.2 28.8



#29
Chloroform
Concen: 0.176 ppbv
RT: 5.75 min Scan# 921
Delta R.T. 0.00 min
Lab File: VL038798.D
Acq: 30 Mar 2022 17:23

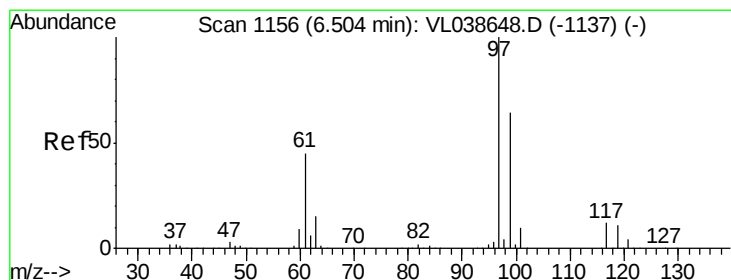
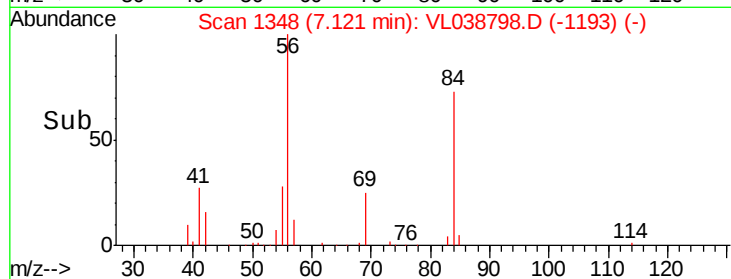
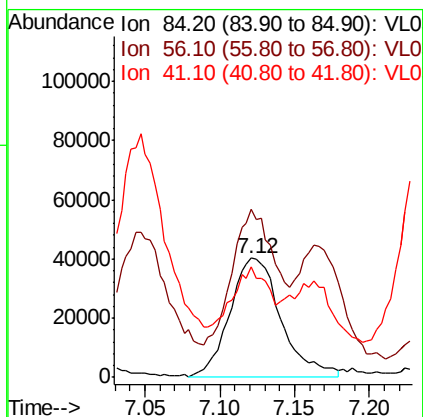
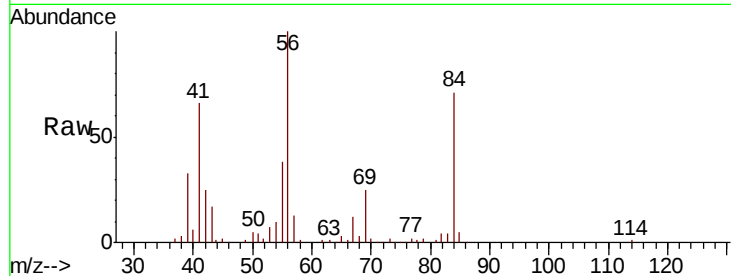
Tgt Ion: 83 Resp: 22297
Ion Ratio Lower Upper
83 100
85 69.5 51.7 77.5





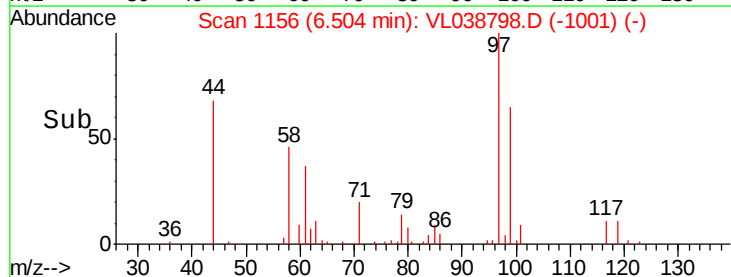
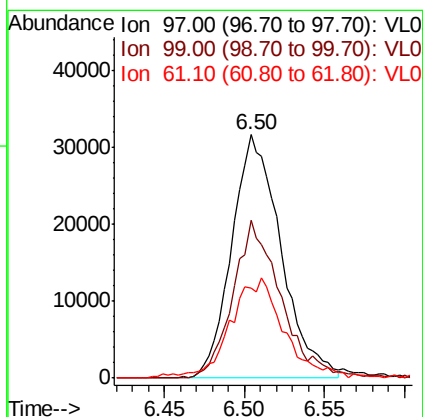
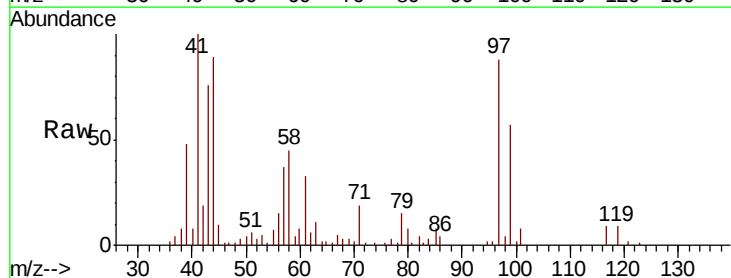
#30
Cvclohexane
Concen: 1.406 ppbv
RT: 7.12
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 30 Mar 2022 17:23

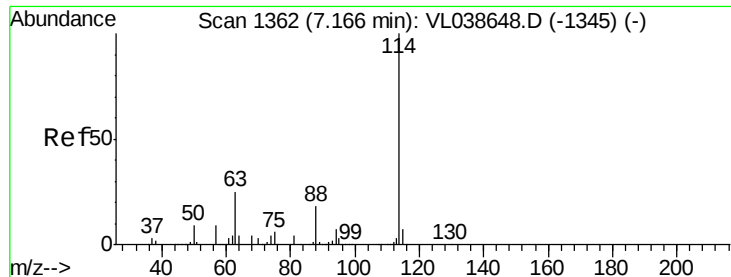
Tot Ion	84	Resp	96603
Ion Ratio	Lower	Upper	
84	100		
56	140.1	108.2	162.4
41	69.7	61.8	92.6



#32
1,1,1-Trichloroethane
Concen: 0.546 ppbv
RT: 6.50 min Scan# 1156
Delta R.T. -0.00 min
Lab File: VL038798.D
Acq: 30 Mar 2022 17:23

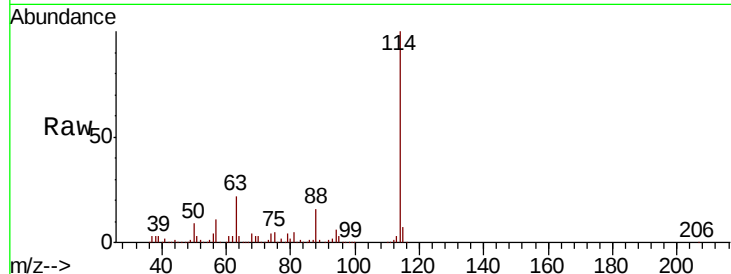
Tgt Ion	97	Resp	66616
Ion Ratio	Lower	Upper	
97	100		
99	63.7	51.8	77.8
61	45.6	36.7	55.1



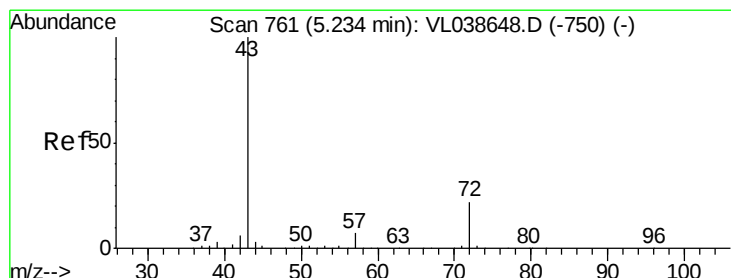
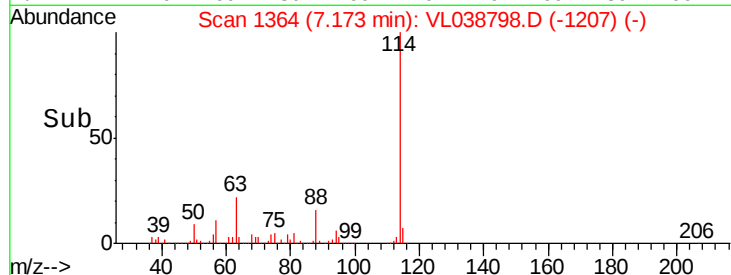
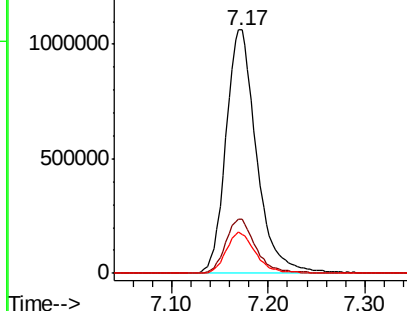


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 30 Mar 2022 17:23

Tot Ion:114 Resp: 2330520
 Ion Ratio Lower Upper
 114 100
 63 22.0 19.4 29.0
 88 16.4 13.9 20.9

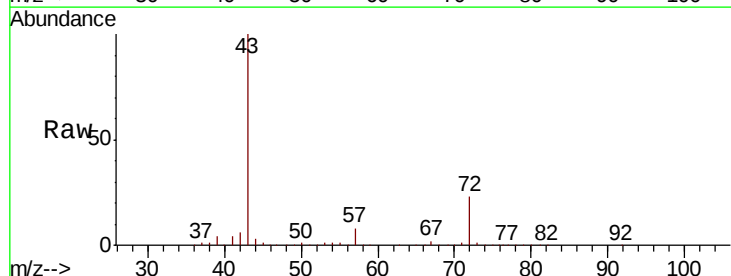


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

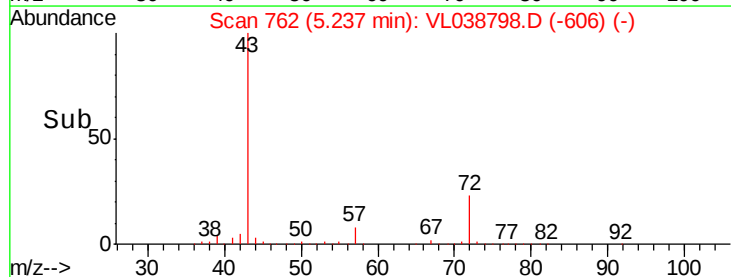
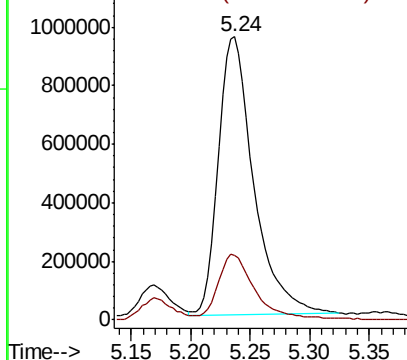


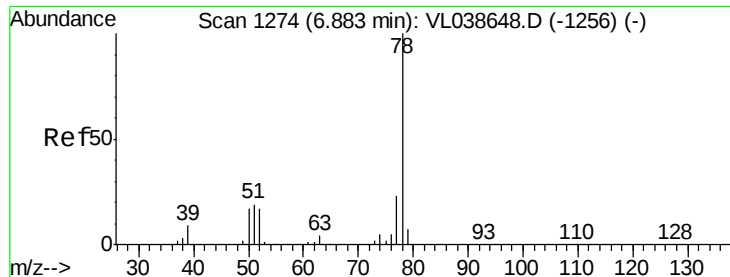
#34
 2-Butanone
 Concen: 21.243 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. 0.00 min
 Lab File: VL038798.D
 Acq: 30 Mar 2022 17:23

Tgt Ion: 43 Resp: 1959495
 Ion Ratio Lower Upper
 43 100
 72 25.1 17.8 26.8



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

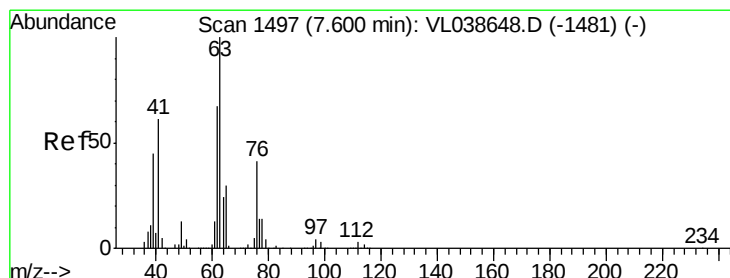
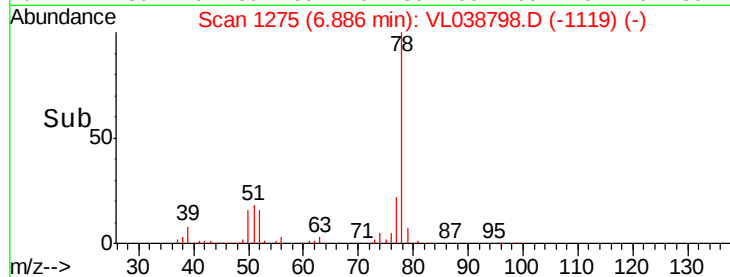
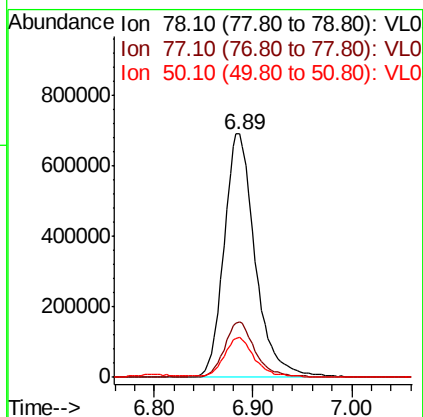
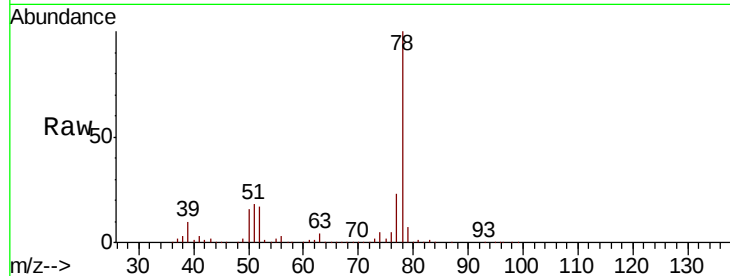




#36
Benzene
Concen: 8.457 ppbv
RT: 6.89
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 30 Mar 2022 17:23

Tot Ion: 78 Resp: 1521190

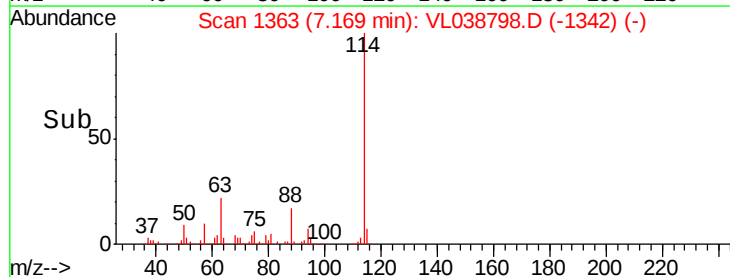
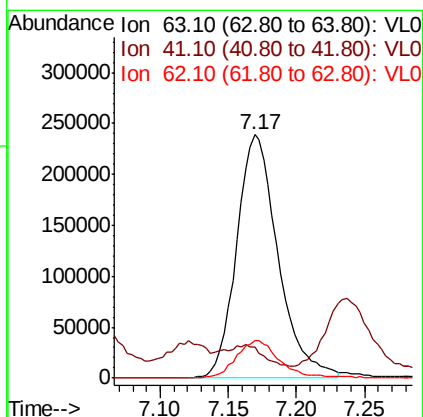
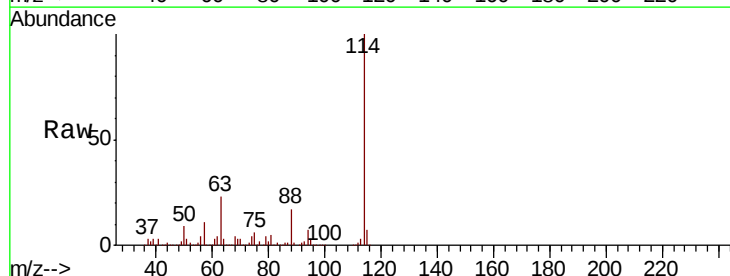
Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.1	27.1
50	16.1	13.6	20.4

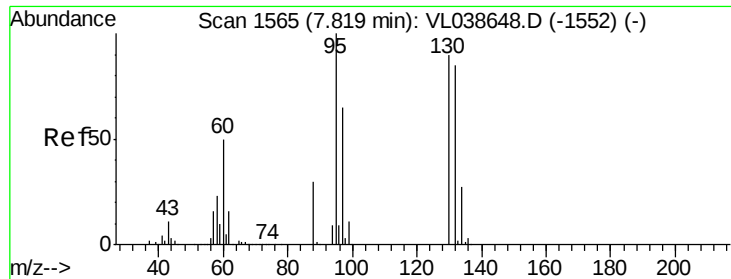


#39
1,2-Dichloropropane
Concen: 7.134 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.43 min
Lab File: VL038798.D
Acq: 30 Mar 2022 17:23

Tgt Ion: 63 Resp: 501611

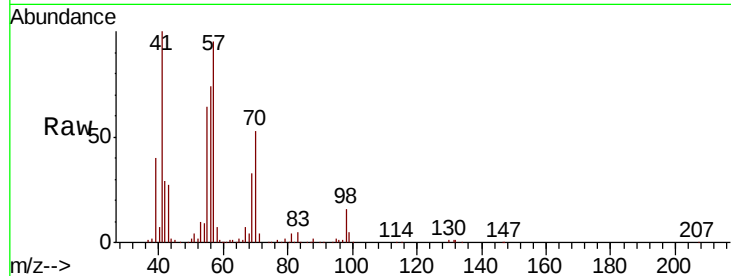
Ion	Ratio	Lower	Upper
63	100		
41	0.0	49.0	73.6#
62	15.7	53.9	80.9#





#40
 1,4-Dioxane
 Concen: 0.046 ppbv
 RT: 7.83
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 30 Mar 2022 17:23

Tot Ion	88	Resp	1125
Ion Ratio	Lower	Upper	
88	100		
58	0.0	105.6	158.4#
43	0.0	201.9	302.9#
57	0.0	942.1	1413.1#



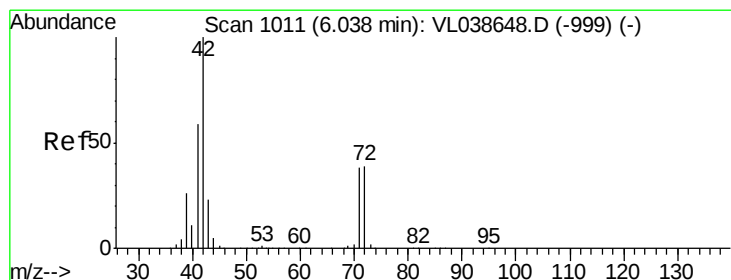
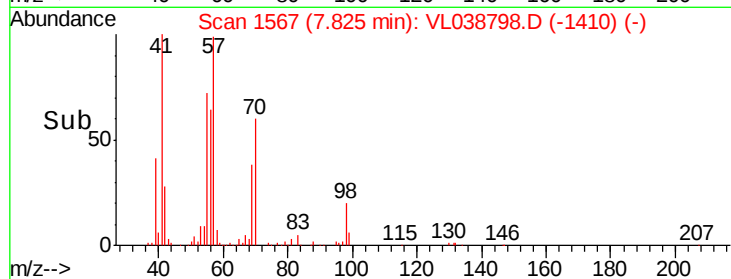
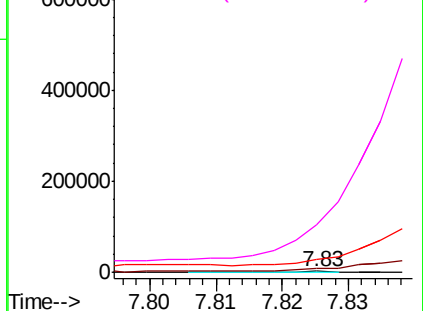
Abundance

Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

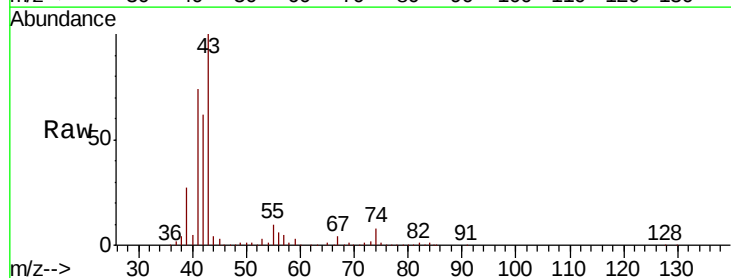
Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#41
 Tetrahydrofuran
 Concen: 6.835 ppbv
 RT: 6.00 min Scan# 998
 Delta R.T. -0.04 min
 Lab File: VL038798.D
 Acq: 30 Mar 2022 17:23

Tgt Ion	42	Resp	469211
Ion Ratio	Lower	Upper	
42	100		
72	3.1	32.5	48.7#
71	0.5	31.4	47.2#

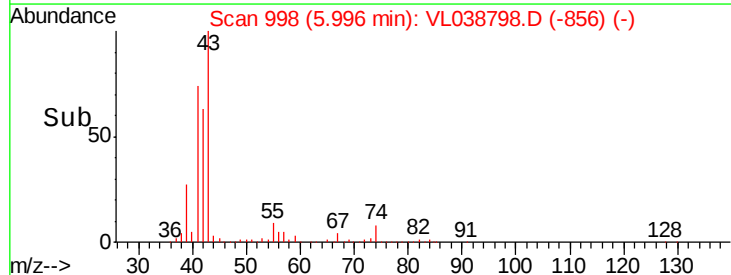
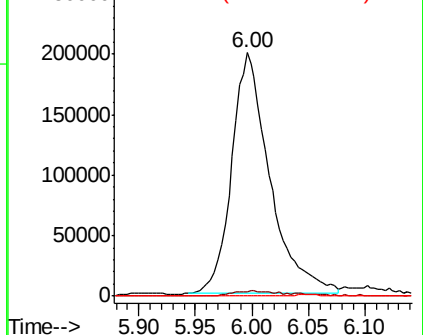


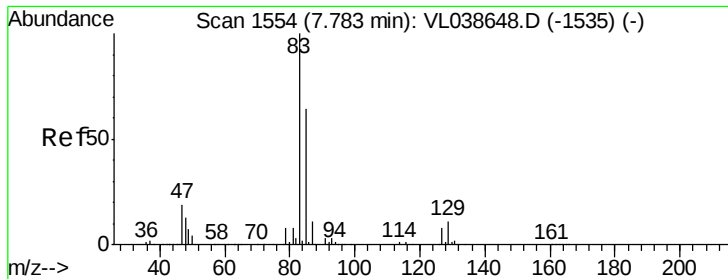
Abundance

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

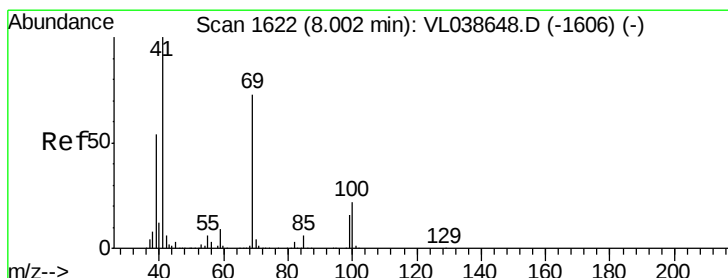
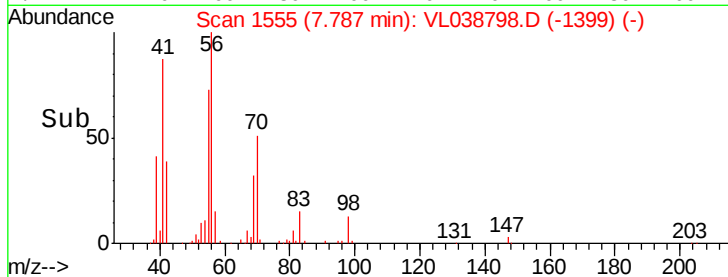
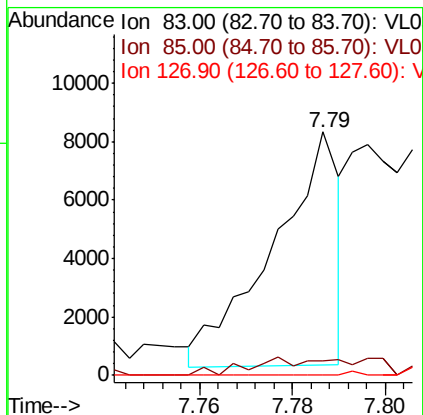
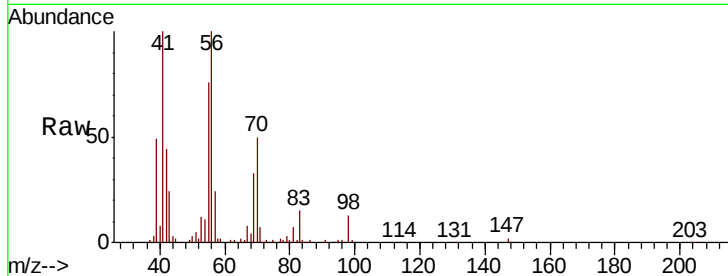




#42

Bromodichloromethane
 Concen: 0.058 ppbv
 RT: 7.79 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 30 Mar 2022 17:23

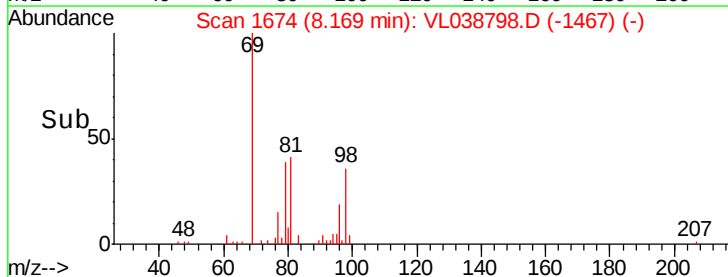
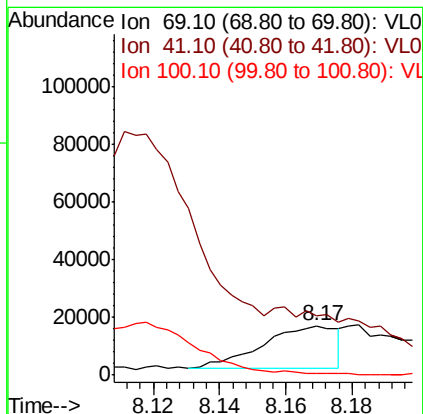
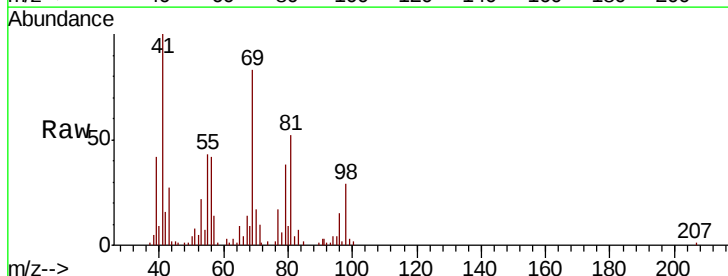
Tot Ion	83	Resp	7939
Ion Ratio	100		
Lower	51.1		
Upper	76.7#		
85	6.8		
127	0.0		
	6.5		
	9.7#		

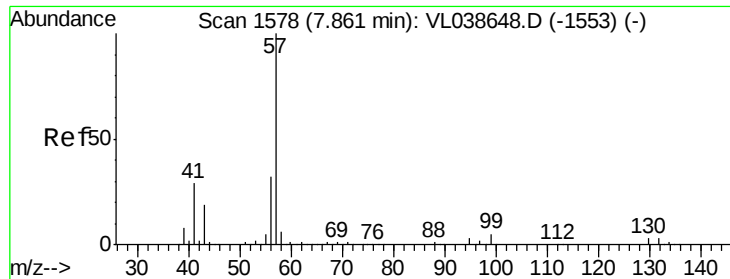


#43

Methyl Methacrylate
 Concen: 0.343 ppbv
 RT: 8.17 min Scan# 1674
 Delta R.T.: 0.17 min
 Lab File: VL038798.D
 Acq: 30 Mar 2022 17:23

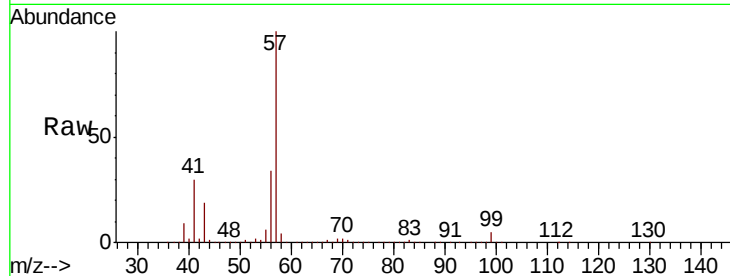
Tgt Ion	69	Resp	22926
Ion Ratio	100		
Lower	110.3		
Upper	165.5#		
41	810.3		
100	180.2		
	24.8		
	37.2#		



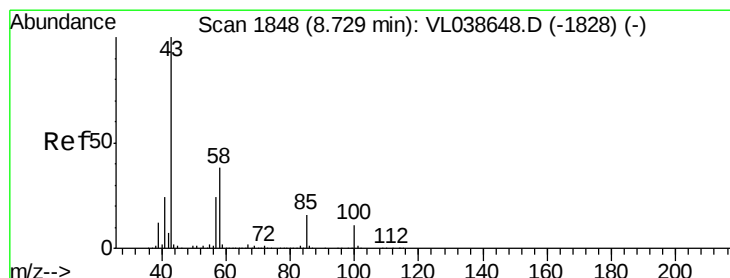
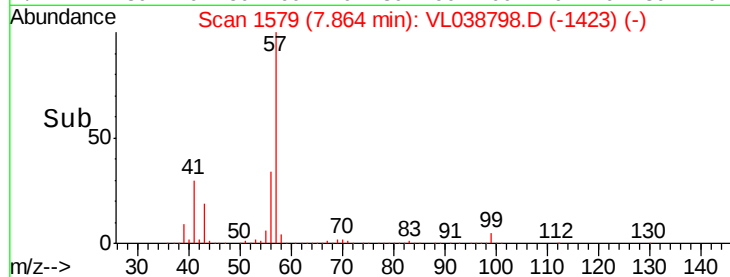
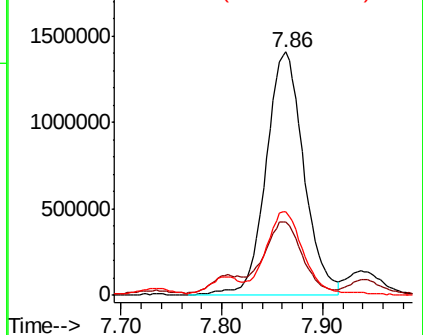


#44
 2,2,4-Trimethylpentane
 Concen: 12.082 ppbv
 RT: 7.86
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 30 Mar 2022 17:23

Tot Ion: 57 Resp: 3648658
 Ion Ratio Lower Upper
 57 100
 41 38.0 23.0 34.4#
 56 35.3 25.3 37.9

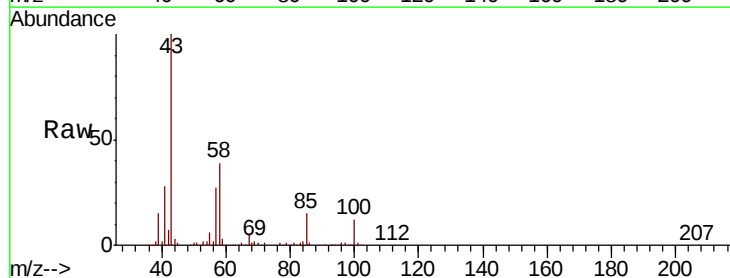


Abundance Ion 57.10 (56.80 to 57.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 56.10 (55.80 to 56.80): VL0

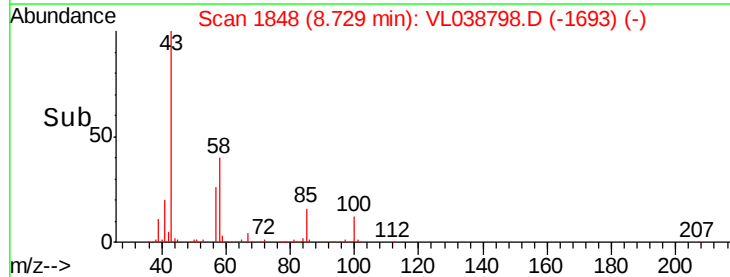
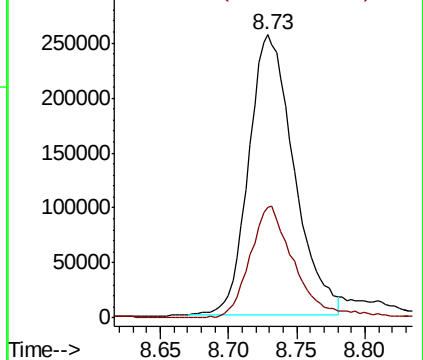


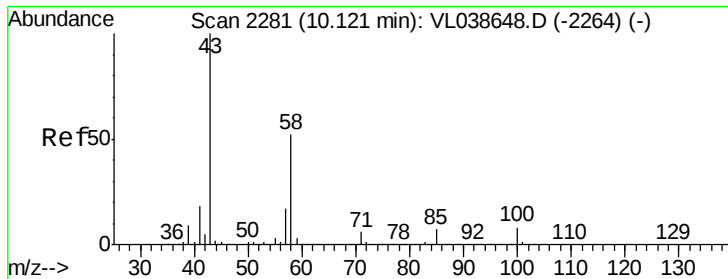
#50
 4-Methyl-2-Pentanone
 Concen: 3.441 ppbv
 RT: 8.73 min Scan# 1848
 Delta R.T. -0.00 min
 Lab File: VL038798.D
 Acq: 30 Mar 2022 17:23

Tgt Ion: 43 Resp: 590104
 Ion Ratio Lower Upper
 43 100
 58 39.1 29.9 44.9



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 7.425 ppbv

RT: 10.11

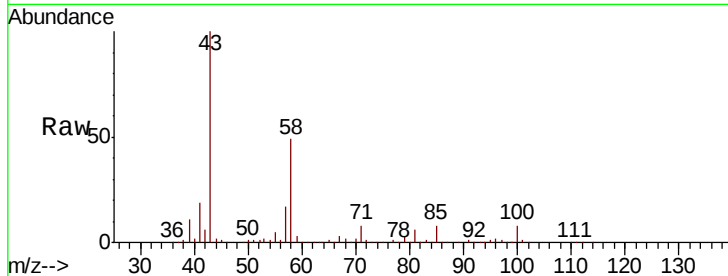
Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 30 Mar 2022 17:23

Tot Ion: 43 Resp: 914540

Ion	Ratio	Lower	Upper
43	100		
58	54.5	41.2	61.8
98	1.2	0.2	0.4#

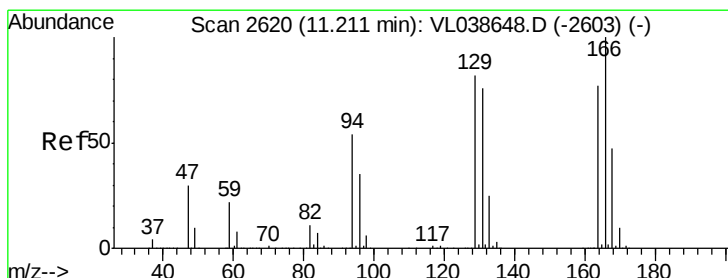
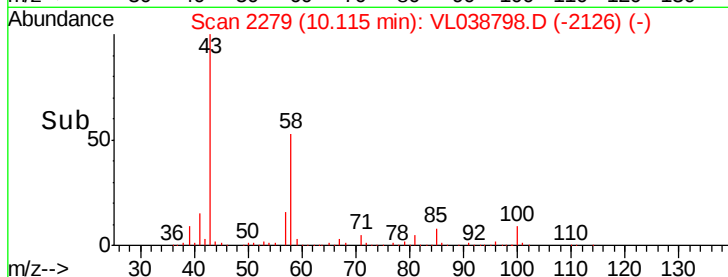
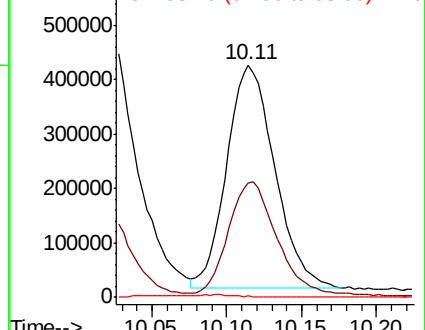


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 3.800 ppbv

RT: 11.21 min Scan# 2620

Delta R.T. -0.00 min

Lab File: VL038798.D

Acq: 30 Mar 2022 17:23

Tgt Ion: 164 Resp: 250090

Ion	Ratio	Lower	Upper
164	100		
166	123.7	103.3	154.9
129	98.8	85.2	127.8
131	93.5	78.3	117.5

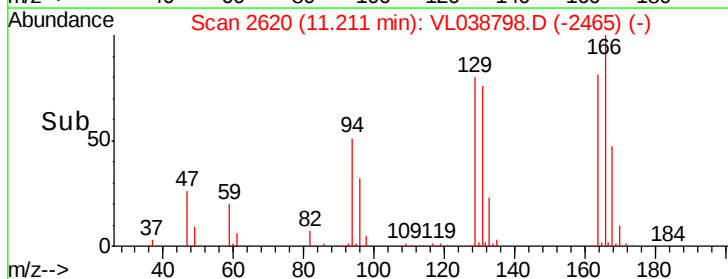
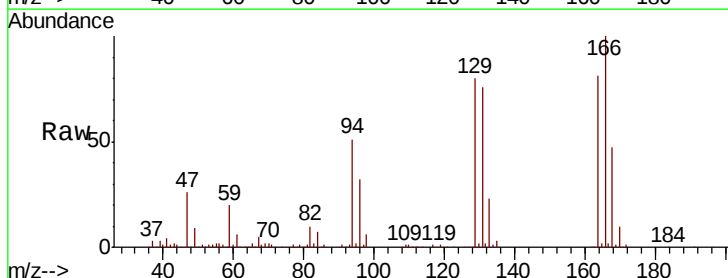
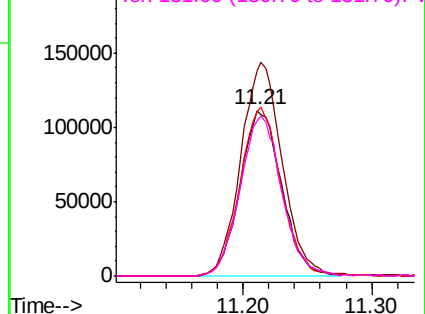
Abundance

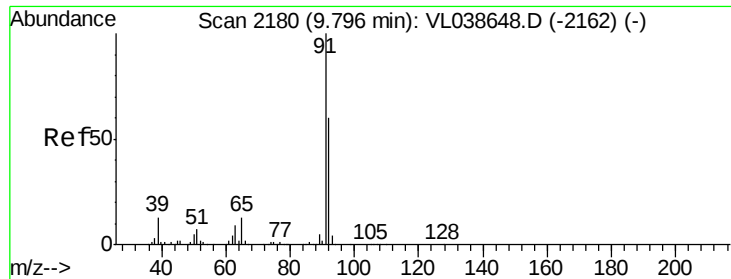
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 9.328 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

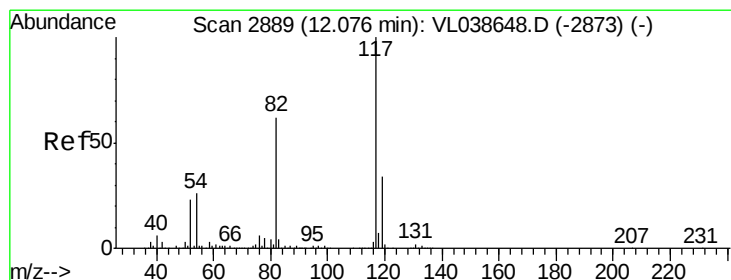
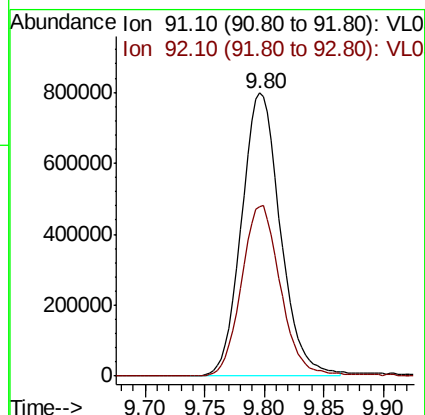
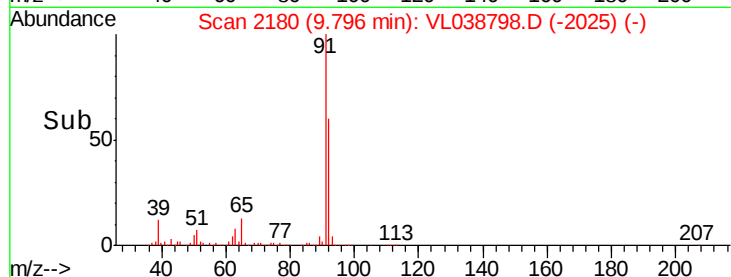
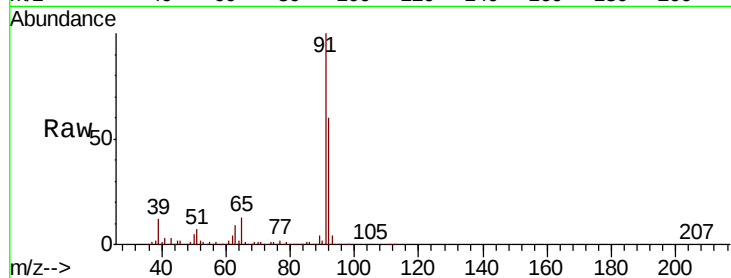
Acq: 30 Mar 2022 17:23

Tot Ion: 91 Resp: 1802716

Ion Ratio Lower Upper

91 100

92 61.5 48.7 73.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.00 min

Lab File: VL038798.D

Acq: 30 Mar 2022 17:23

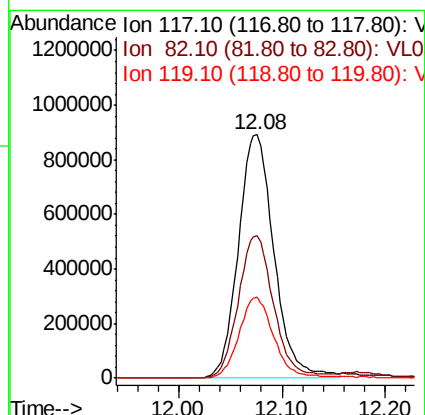
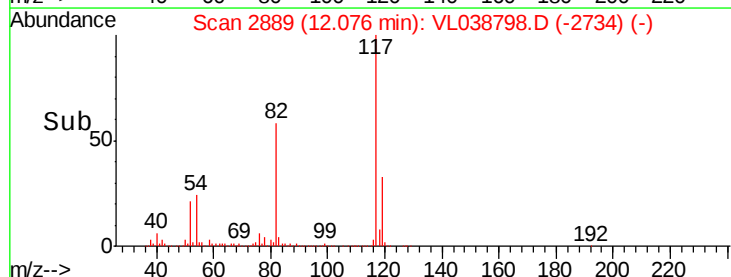
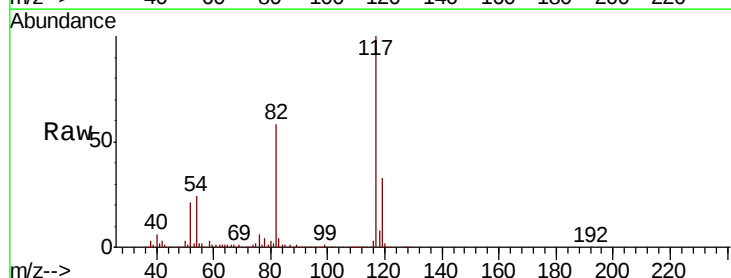
Tgt Ion: 117 Resp: 2146472

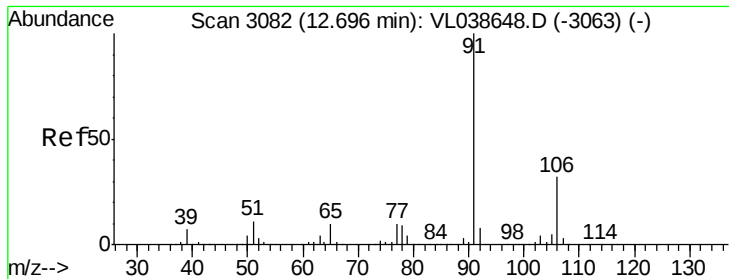
Ion Ratio Lower Upper

117 100

82 58.1 51.6 77.4

119 33.7 26.9 40.3





#58

Ethyl Benzene

Concen: 1.935 ppbv

RT: 12.70

Delta R.T. MSVOA_L

Lab File:

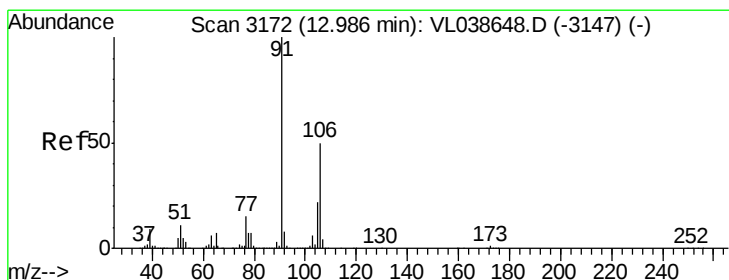
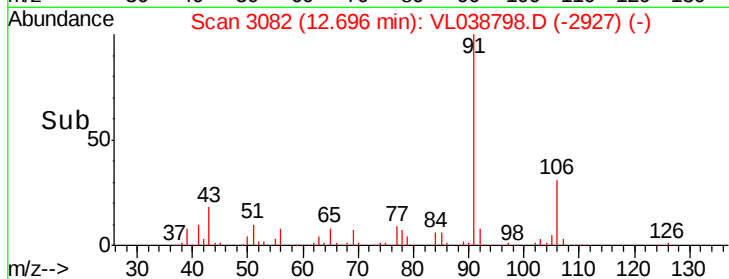
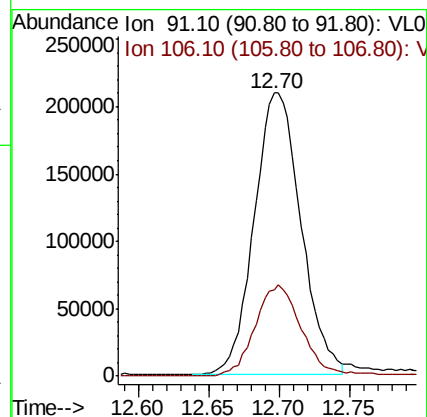
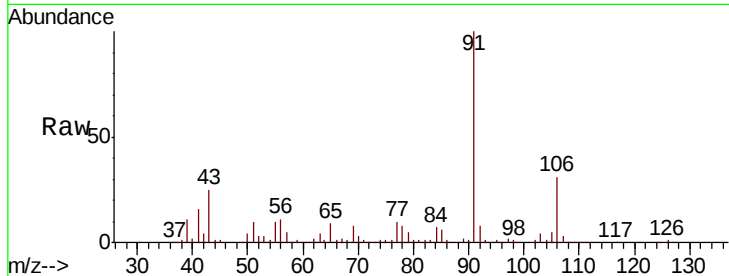
Acq: 30 Mar 2022 17:23

Tot Ion: 91 Resp: 485544

Ion Ratio Lower Upper

91 100

106 30.6 25.4 38.0



#59

m/p-Xylene

Concen: 4.481 ppbv

RT: 12.95 min Scan# 3162

Delta R.T. -0.03 min

Lab File: VL038798.D

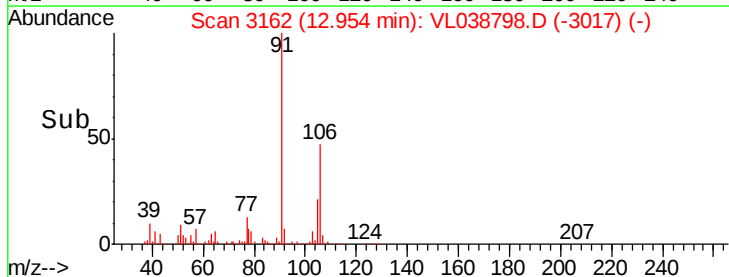
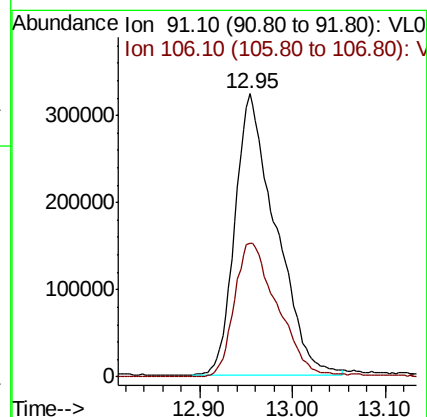
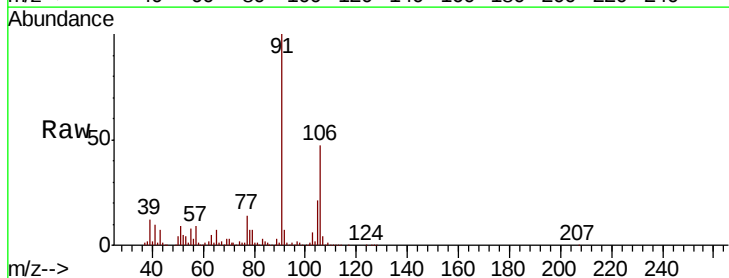
Acq: 30 Mar 2022 17:23

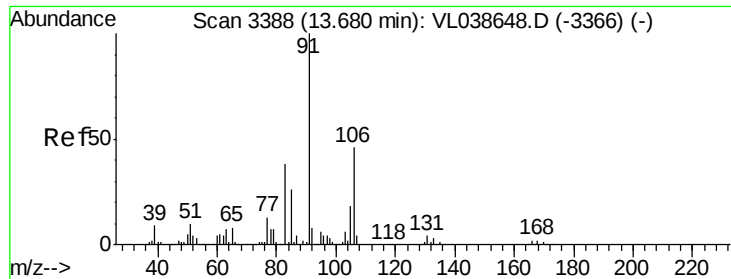
Tgt Ion: 91 Resp: 983610

Ion Ratio Lower Upper

91 100

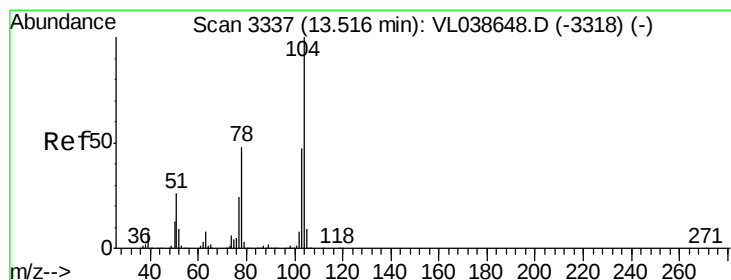
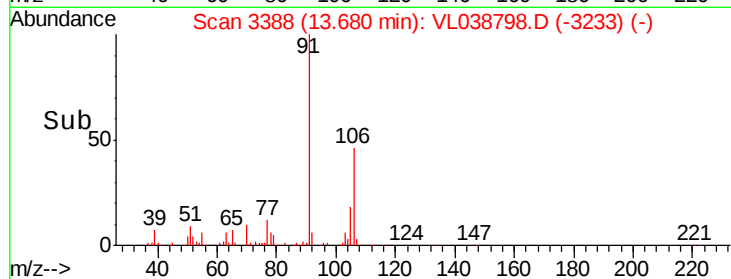
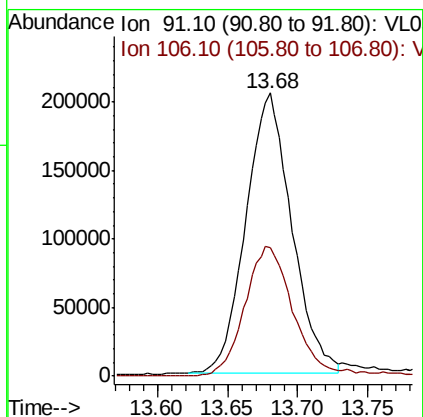
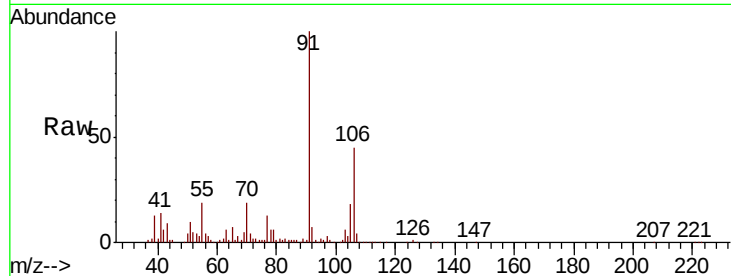
106 50.6 37.2 55.8





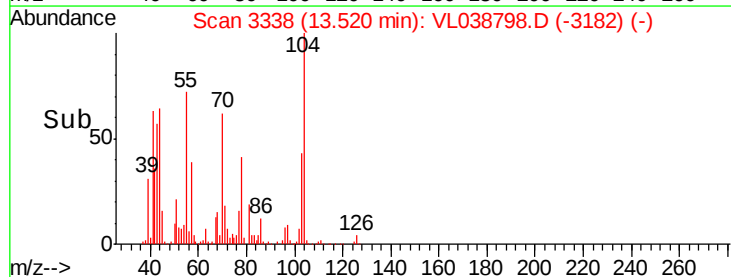
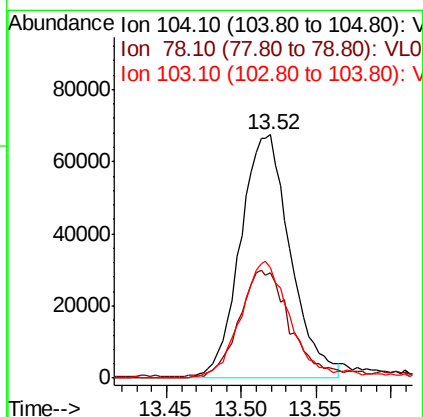
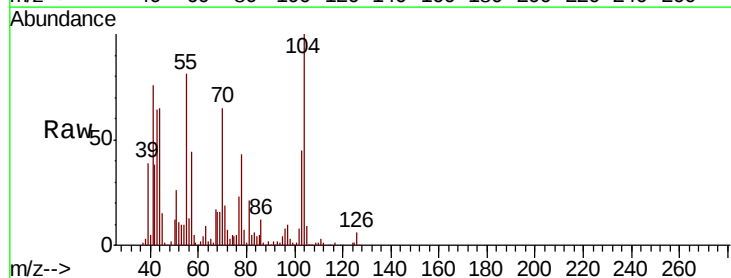
#60
o-Xylene
Concen: 2.226 ppbv
RT: 13.68
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 30 Mar 2022 17:23

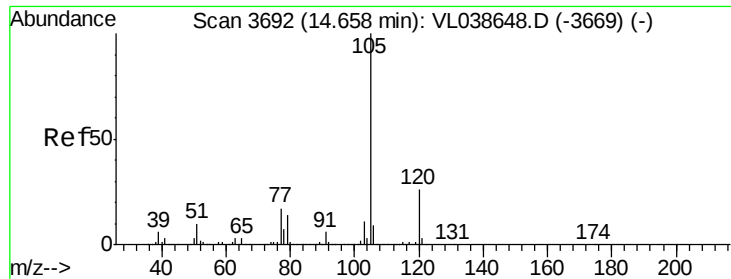
Tot Ion: 91 Resp: 463833
Ion Ratio Lower Upper
91 100
106 51.5 23.5 70.5



#61
Styrene
Concen: 1.389 ppbv
RT: 13.52 min Scan# 3338
Delta R.T. 0.00 min
Lab File: VL038798.D
Acq: 30 Mar 2022 17:23

Tgt Ion:104 Resp: 156997
Ion Ratio Lower Upper
104 100
78 44.8 39.0 58.4
103 48.7 37.8 56.8





#62

Isopropylbenzene

Concen: 0.943 ppbv

RT: 14.65 min

Delta R.T. MSVOA_L

Lab File:

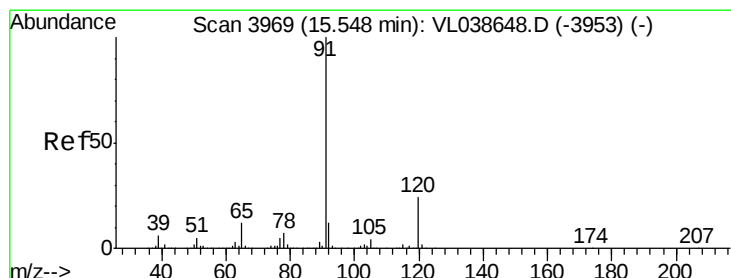
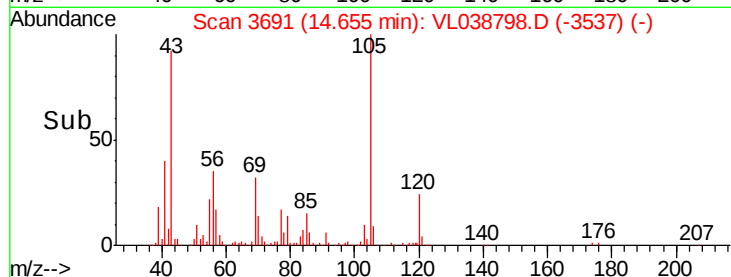
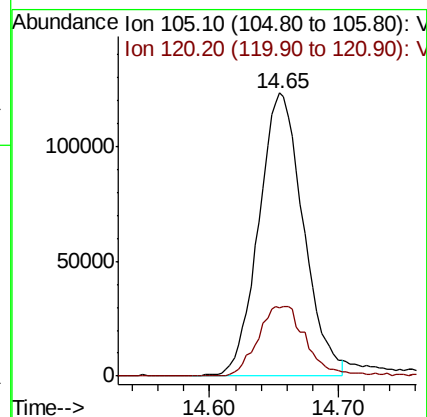
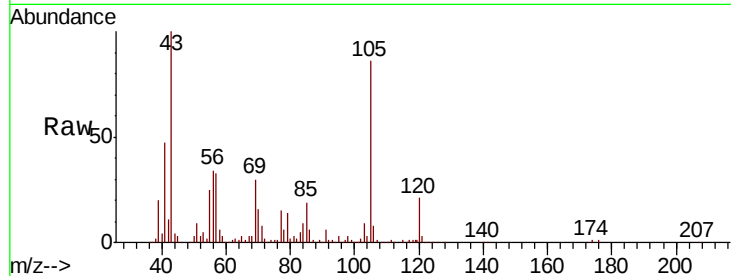
Acq: 30 Mar 2022 17:23

Tot Ion:105 Resp: 295477

Ion Ratio Lower Upper

105 100

120 27.2 21.2 31.8



#64

n-propylbenzene

Concen: 0.222 ppbv

RT: 15.55 min Scan# 3969

Delta R.T. -0.00 min

Lab File: VL038798.D

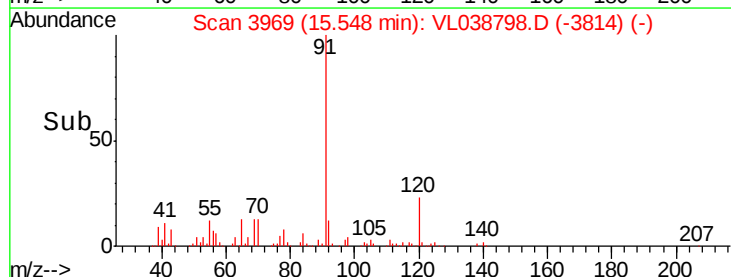
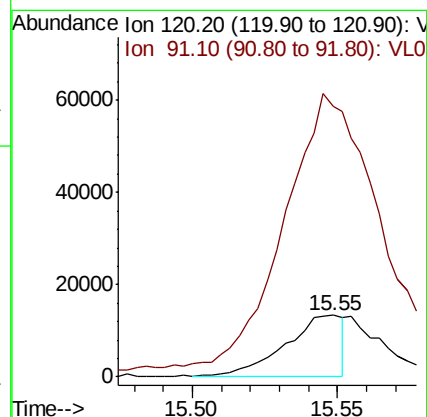
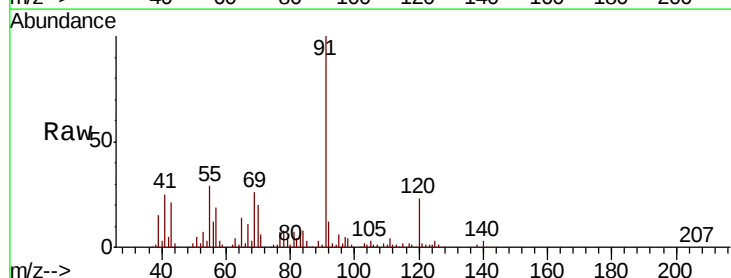
Acq: 30 Mar 2022 17:23

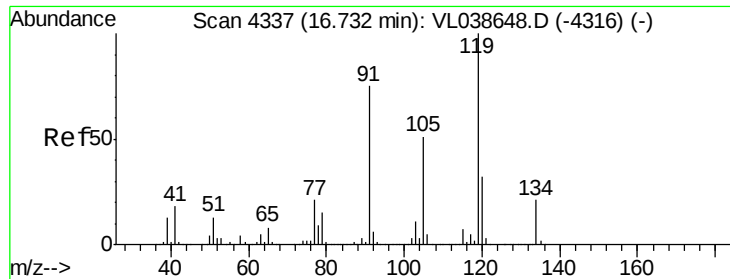
Tgt Ion:120 Resp: 18223

Ion Ratio Lower Upper

120 100

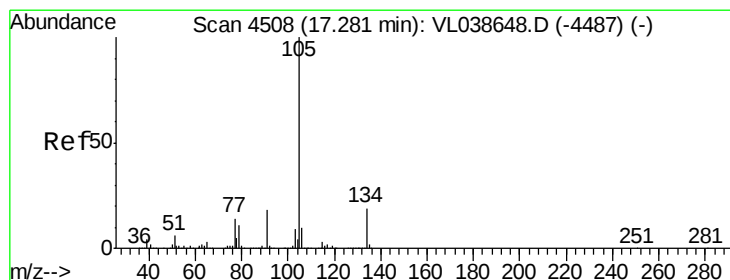
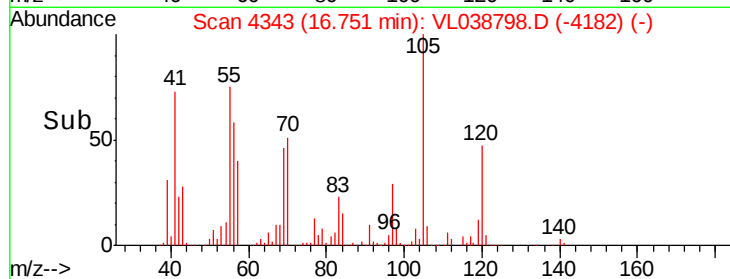
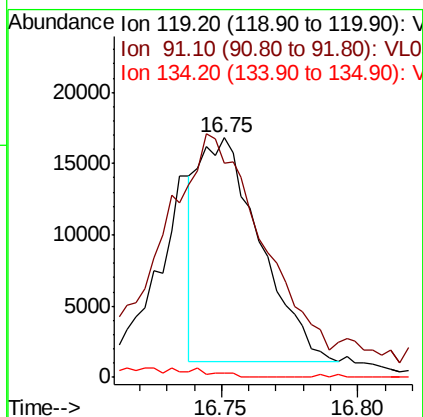
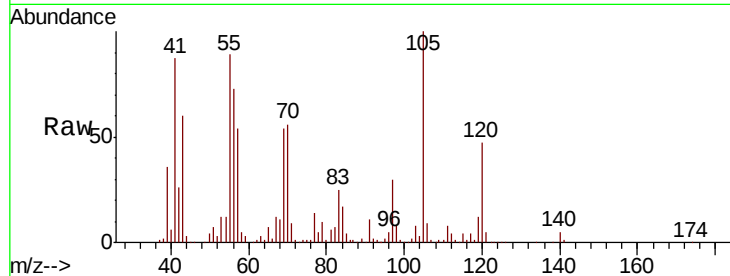
91 818.2 368.0 552.0#





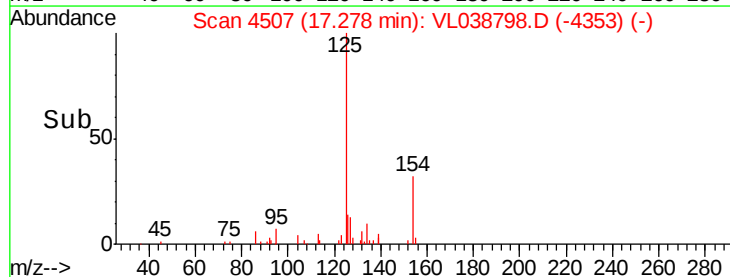
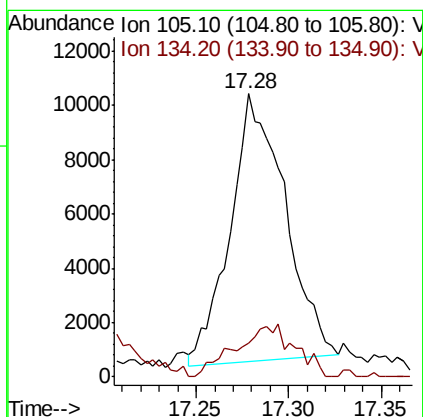
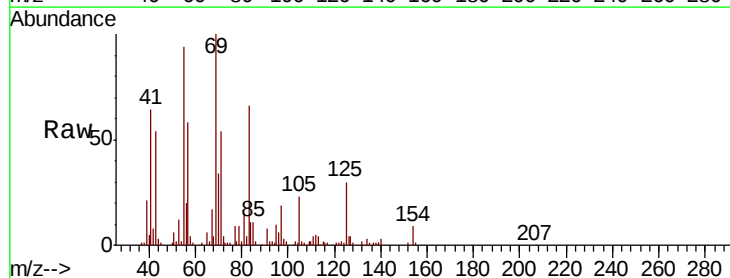
#65
tert-Butylbenzene
Concen: 0.088 ppbv
RT: 16.75 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 30 Mar 2022 17:23

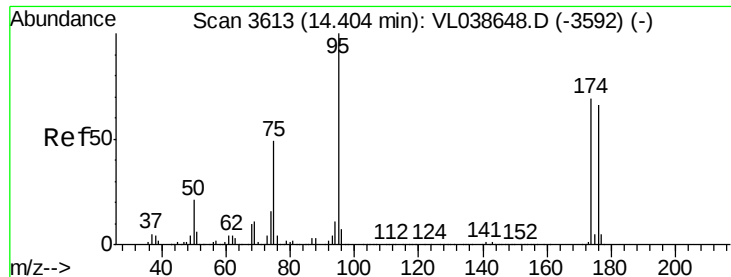
Tot Ion:119 Resp: 24682
Ion Ratio Lower Upper
119 100
91 180.7 61.2 91.8#
134 0.0 16.3 24.5#



#67
sec-Butylbenzene
Concen: 0.051 ppbv
RT: 17.28 min Scan# 4507
Delta R.T.: -0.00 min
Lab File: VL038798.D
Acq: 30 Mar 2022 17:23

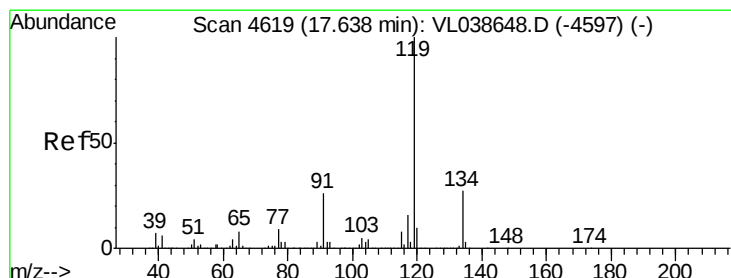
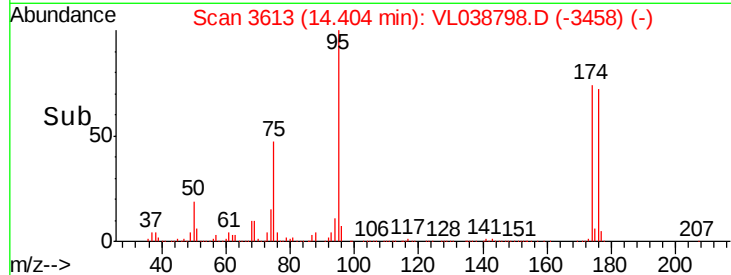
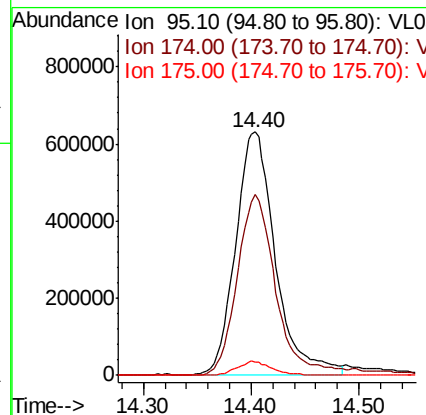
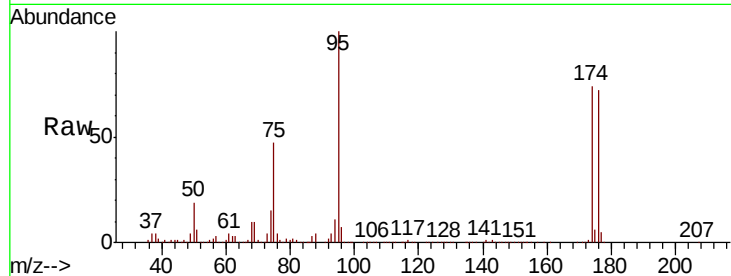
Tgt Ion:105 Resp: 20334
Ion Ratio Lower Upper
105 100
134 21.3 15.1 22.7





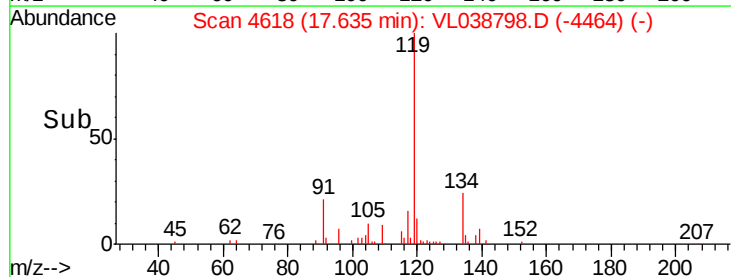
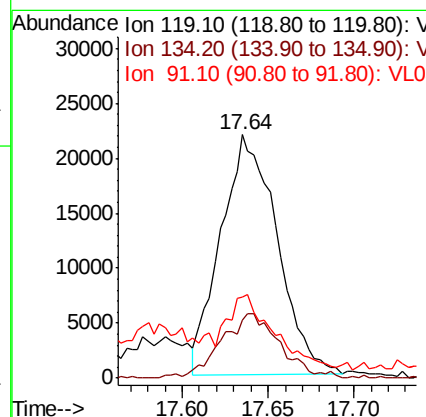
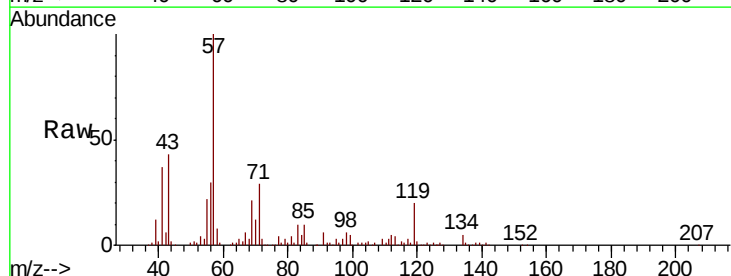
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.775 ppbv
 RT: 14.40 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 30 Mar 2022 17:23

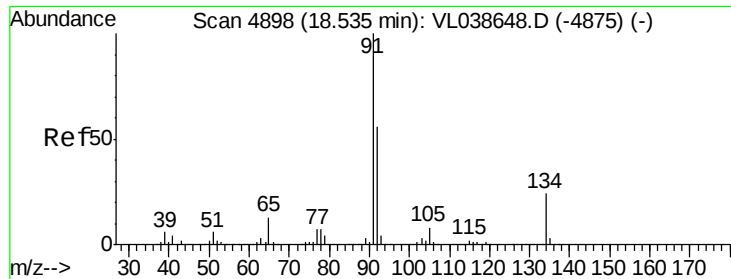
Tot Ion: 95 Resp: 1608717
 Ion Ratio Lower Upper
 95 100
 174 75.8 56.1 84.1
 175 5.5 4.2 6.2



#69
 p-Isopropyltoluene
 Concen: 0.151 ppbv
 RT: 17.64 min Scan# 4618
 Delta R.T. -0.00 min
 Lab File: VL038798.D
 Acq: 30 Mar 2022 17:23

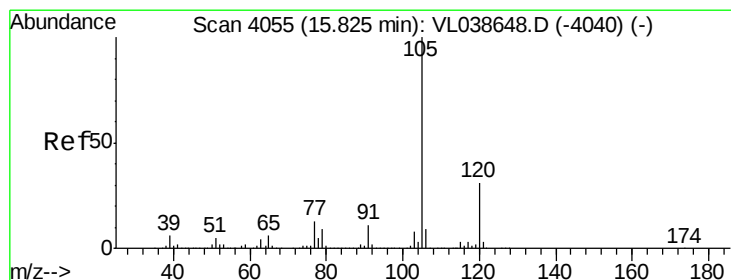
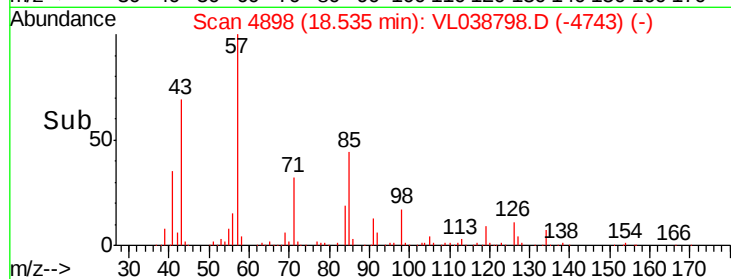
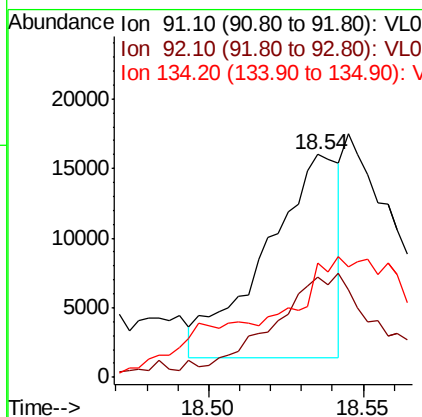
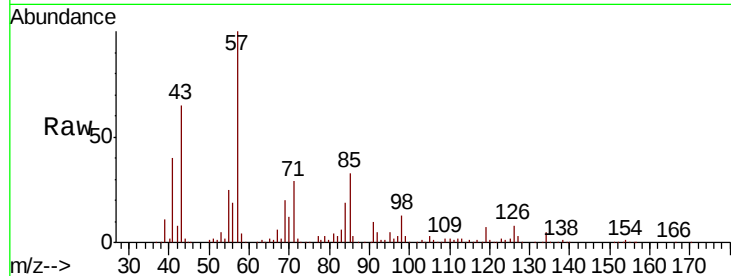
Tgt Ion: 119 Resp: 49734
 Ion Ratio Lower Upper
 119 100
 134 28.3 21.2 31.8
 91 23.6 21.4 32.2





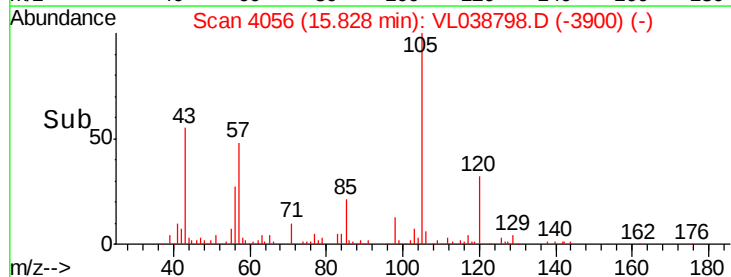
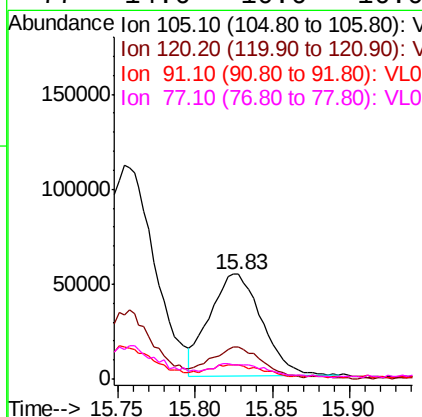
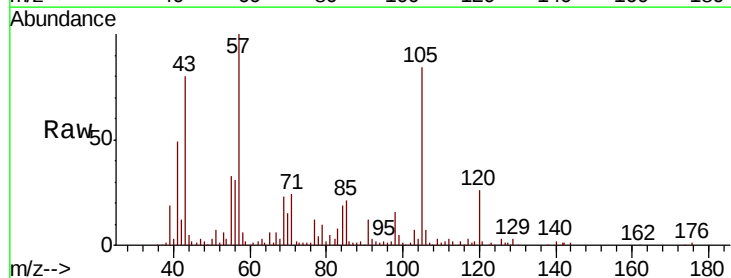
#70
n-Butylbenzene
Concen: 0.071 ppbv
RT: 18.54 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 30 Mar 2022 17:23

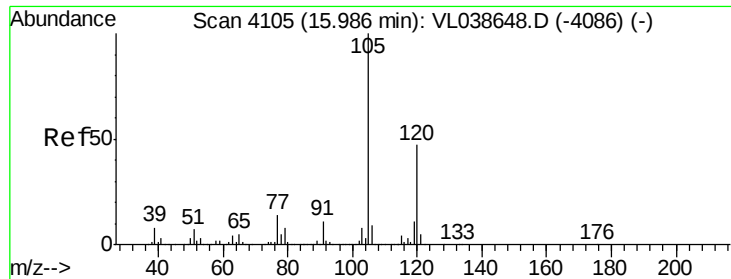
Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	43.9	65.9#
134	0.0	18.7	28.1#



#72
4-Ethyltoluene
Concen: 0.513 ppbv
RT: 15.83 min Scan# 4056
Delta R.T.: 0.00 min
Lab File: VL038798.D
Acq: 30 Mar 2022 17:23

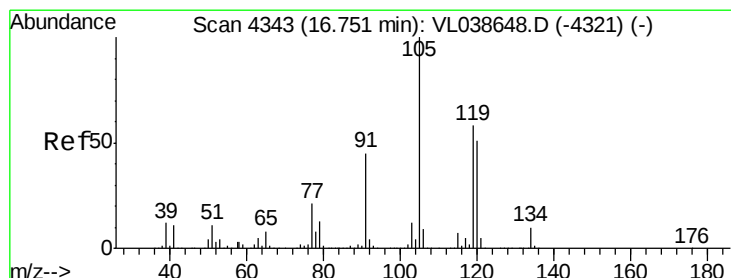
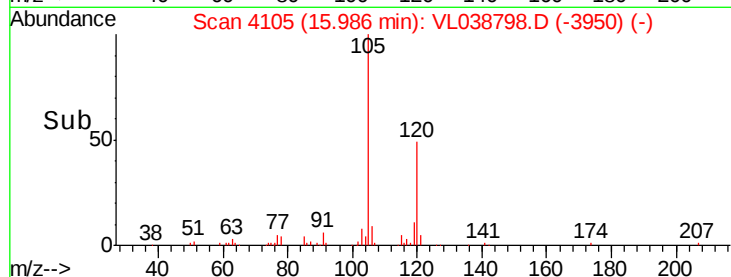
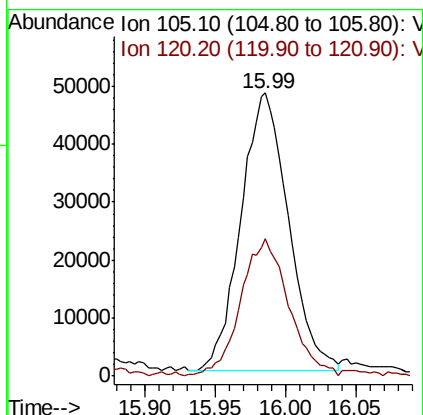
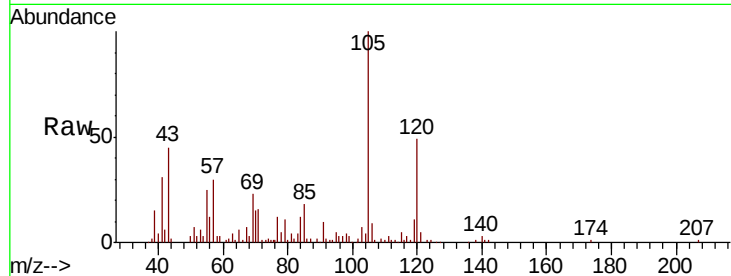
Tgt Ion	Ratio	Lower	Upper
105	100		
120	32.4	24.9	37.3
91	13.5	9.8	14.6
77	14.6	10.6	16.0





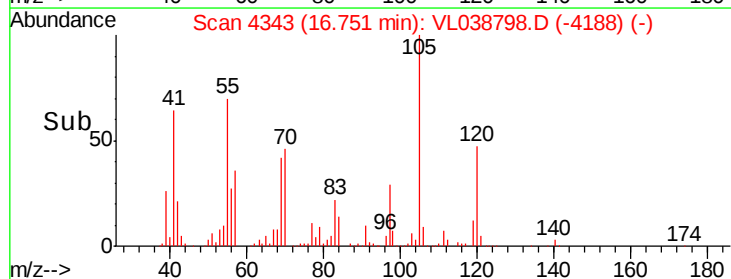
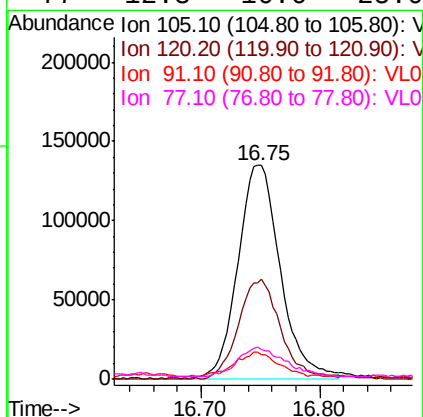
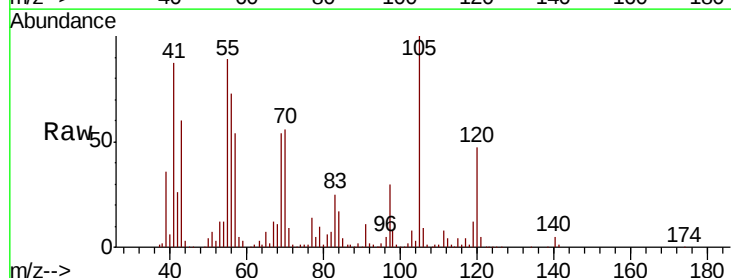
#73
 1,3,5-Trimethylbenzene
 Concen: 0.506 ppbv
 RT: 15.99
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 30 Mar 2022 17:23

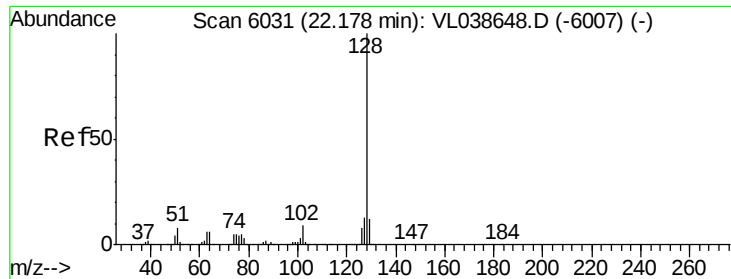
Tot Ion	105	Resp	113337
Ion	Ratio	Lower	Upper
105	100		
120	49.0	37.6	56.4



#74
 1,2,4-Trimethylbenzene
 Concen: 1.359 ppbv
 RT: 16.75 min Scan# 4343
 Delta R.T. -0.00 min
 Lab File: VL038798.D
 Acq: 30 Mar 2022 17:23

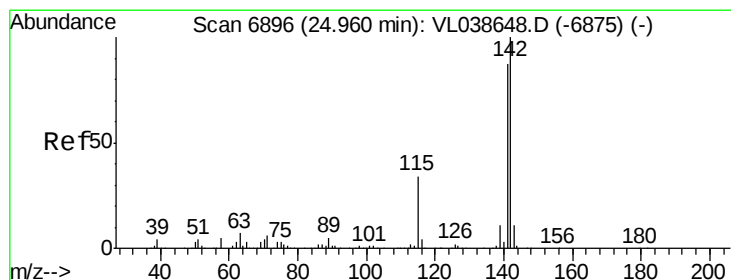
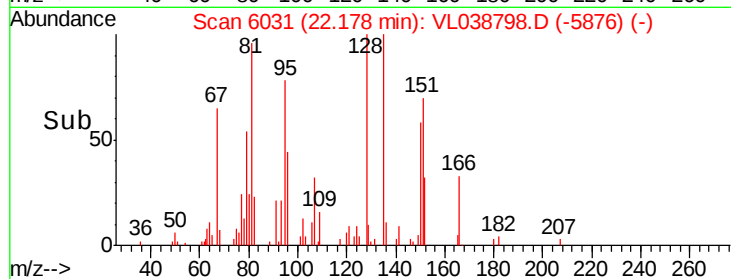
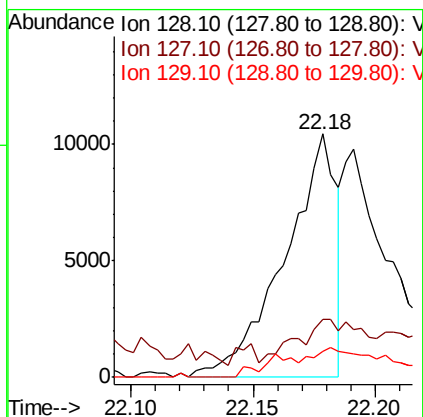
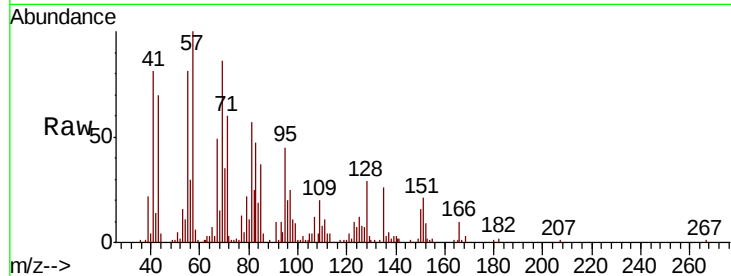
Tgt Ion	105	Resp	331747
Ion	Ratio	Lower	Upper
105	100		
120	46.7	40.5	60.7
91	10.4	35.9	53.9#
77	12.3	16.6	25.0#





#79
Naphthalene
Concen: 0.082 ppbv
RT: 22.18 min
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 30 Mar 2022 17:23

Tot Ion	Ratio	Lower	Upper
128	100		
127	9.9	10.2	15.4#
129	10.7	9.2	13.8



#80
Naphthalene, 2-methyl-
Concen: 0.065 ppbv
RT: 24.97 min Scan# 6899
Delta R.T.: 0.01 min
Lab File: VL038798.D
Acq: 30 Mar 2022 17:23

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.5	66.4	99.6
115	54.6	27.8	41.6#

