

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\
 Data File : VL038098.D
 Acq On : 23 Nov 2021 14:06
 Operator : SY/AP
 Sample : M4805-02DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-PURE-BARREDUP

Quant Time: Nov 24 06:54:00 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	968457	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2658950	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2227092	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1766624	11.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	13582	0.085	ppbv 99
3) Chlorodifluoromethane	2.97	51	5571908	27.396	ppbv # 61
4) Chloromethane	3.15	50	31700	0.458	ppbv 91
9) Propene	3.21	41	666063	8.892	ppbv 94
10) Heptane	8.12	43	66604	0.360	ppbv # 85
11) Trichlorofluoromethane	3.96	101	399490	2.626	ppbv 99
13) Ethanol	3.64	45	21212284	2930.560	ppbv 98
15) Acetone	3.85	43	4608198	54.881	ppbv 100
16) 1,3-Butadiene	3.31	39	33141	0.506	ppbv # 9
17) tert-Butyl alcohol	4.33	59	73746	0.724	ppbv # 62
19) Isopropyl Alcohol	4.00	45	7551647	124.472	ppbv # 98
20) Methylene Chloride	4.35	84	80945	1.721	ppbv 92
21) Allyl Chloride	4.33	41	13512	0.174	ppbv # 19
23) Vinyl Acetate	5.06	43	134191	1.104	ppbv # 76
25) Ethyl Acetate	5.68	43	386857	1.386	ppbv # 96
26) Hexane	5.69	57	127238	0.946	ppbv # 62
27) Carbon Disulfide	4.56	76	72334	0.600	ppbv # 88
29) Chloroform	5.76	83	46146	0.233	ppbv 86
34) 2-Butanone	5.24	43	348148	3.247	ppbv 100
35) Carbon Tetrachloride	7.01	117	14202	0.076	ppbv # 96
36) Benzene	6.89	78	121677	0.459	ppbv 94
37) 1,2-Dichloroethane	6.30	62	5175	0.040	ppbv # 91
39) 1,2-Dichloropropane	7.17	63	658179	6.469	ppbv # 27
40) 1,4-Dioxane	7.83	88	1127	0.043	ppbv # 1
41) Tetrahydrofuran	6.04	42	3873	0.058	ppbv # 36
44) 2,2,4-Trimethylpentane	7.87	57	193327	0.436	ppbv # 92
50) 4-Methyl-2-Pentanone	8.74	43	17209	0.106	ppbv # 38
51) 2-Hexanone	10.13	43	2623	0.034	ppbv # 27
52) Tetrachloroethene	11.22	164	6028	0.061	ppbv 97
53) Toluene	9.81	91	559575	1.834	ppbv 100
58) Ethyl Benzene	12.70	91	72993	0.198	ppbv 94
59) m/p-Xylene	12.96	91	180674	0.583	ppbv 100
60) o-Xylene	13.68	91	63056	0.219	ppbv 94
61) Styrene	13.52	104	58300	0.378	ppbv 88
64) n-propylbenzene	15.56	120	3780	0.036	ppbv # 1
69) p-Isopropyltoluene	17.64	119	47790	0.122	ppbv # 55
72) 4-Ethyltoluene	15.83	105	21784	0.065	ppbv # 86
73) 1,3,5-Trimethylbenzene	15.99	105	13950	0.046	ppbv # 74
74) 1,2,4-Trimethylbenzene	16.76	105	47376	0.151	ppbv # 66

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
QLast Update : Thu Nov 18 13:16:09 2021
Response via : Initial Calibration

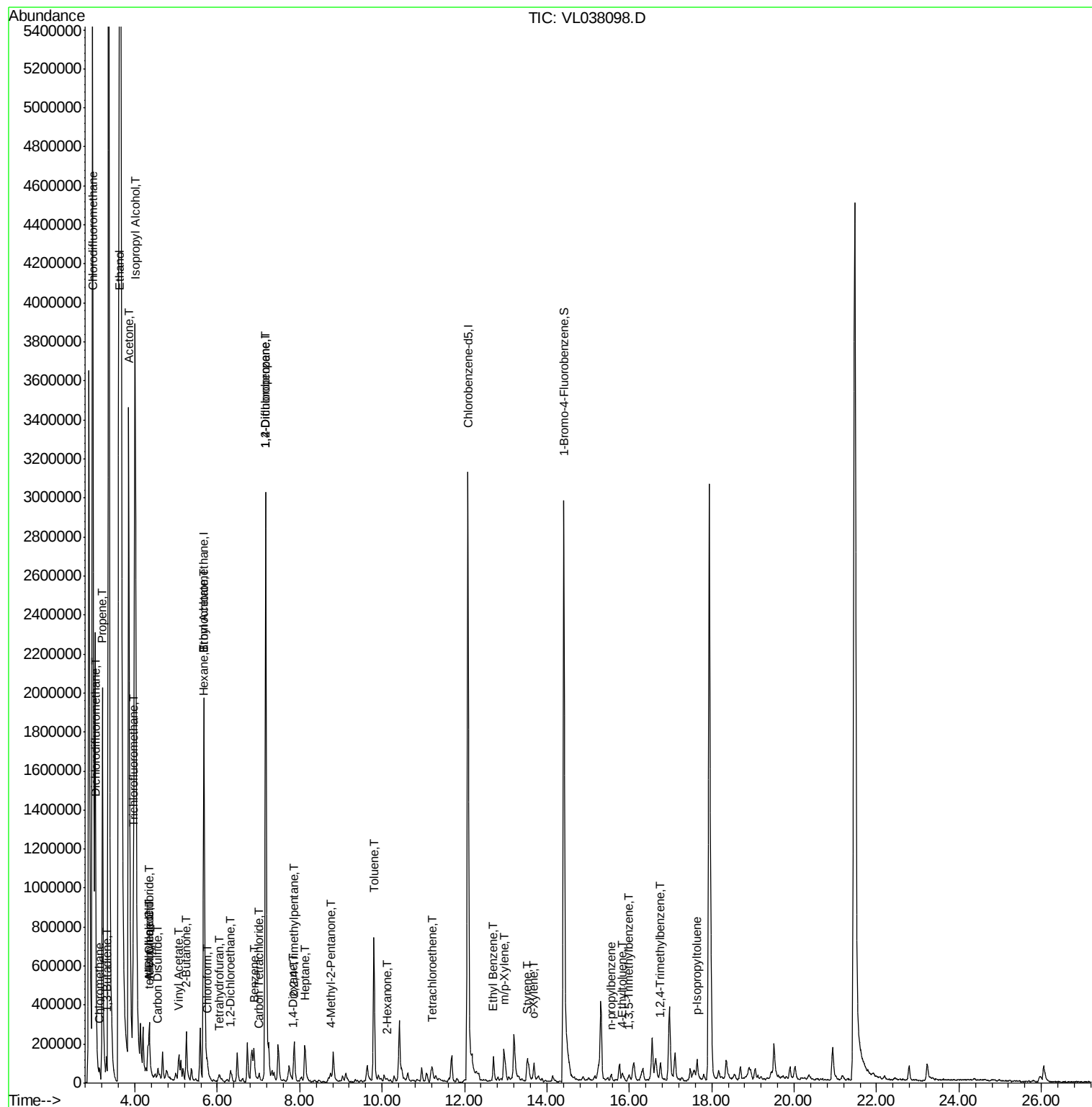
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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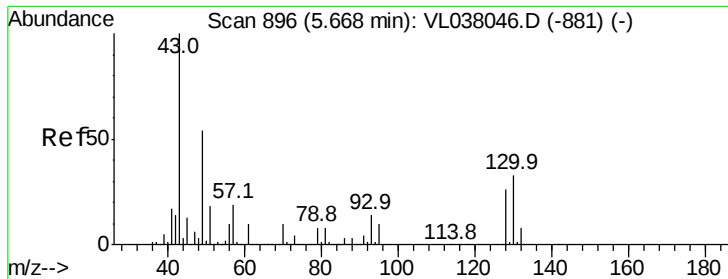
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 23 Nov 2021 14:00

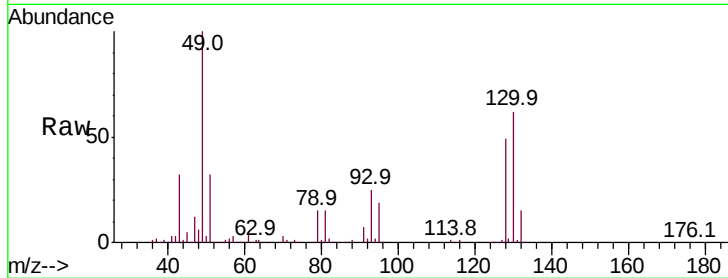
Tot Ion: 49 Resp: 968457

Ion Ratio Lower Upper

49 100

128 49.3 26.5 79.5

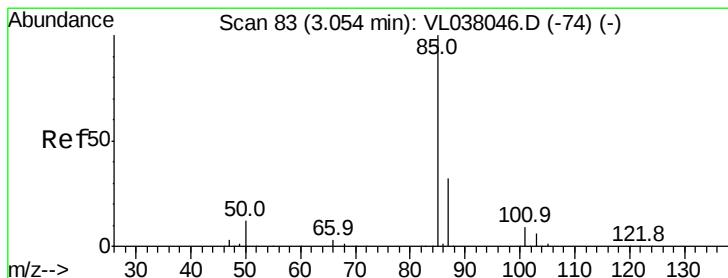
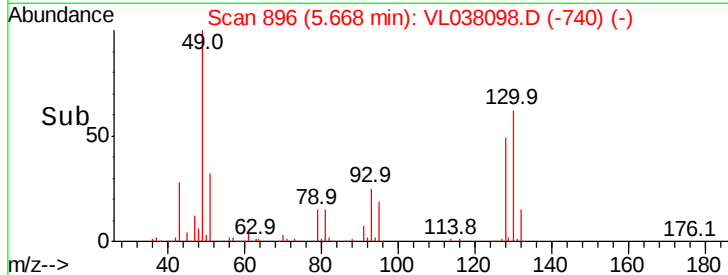
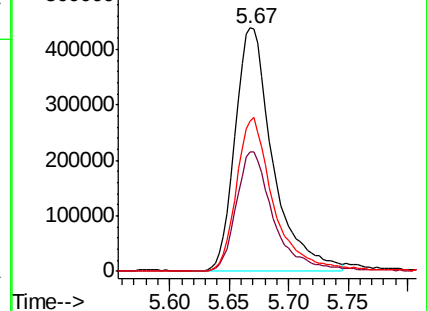
130 62.6 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.085 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL038098.D

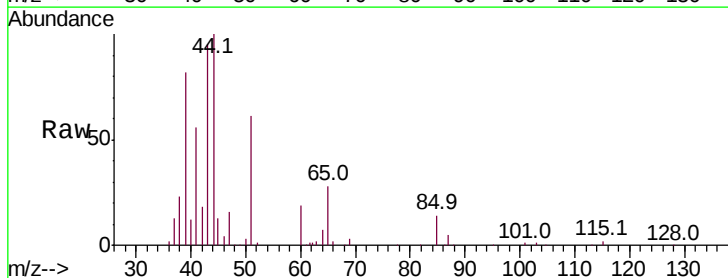
Acq: 23 Nov 2021 14:06

Tgt Ion: 85 Resp: 13582

Ion Ratio Lower Upper

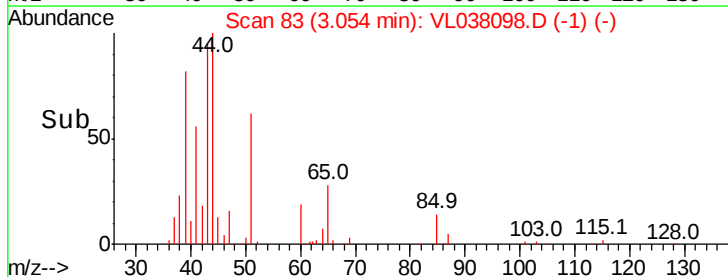
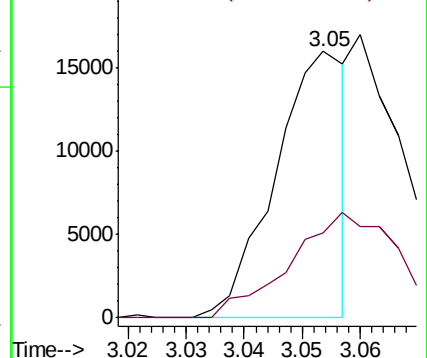
85 100

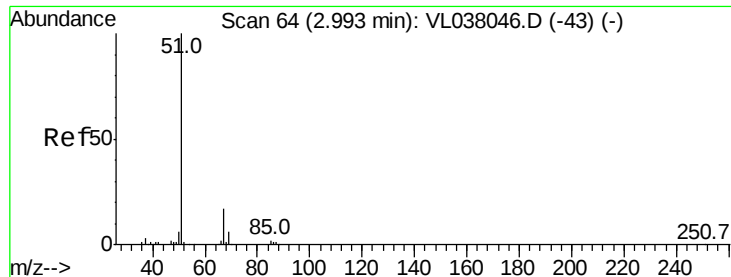
87 31.9 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 27.396 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

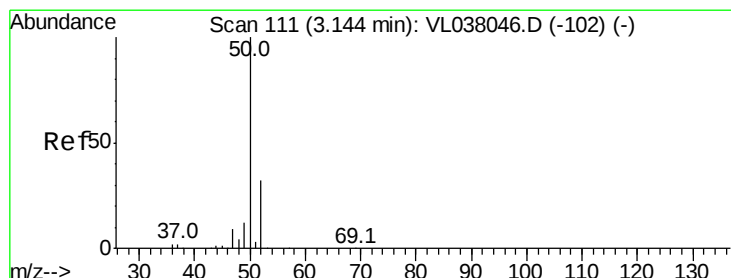
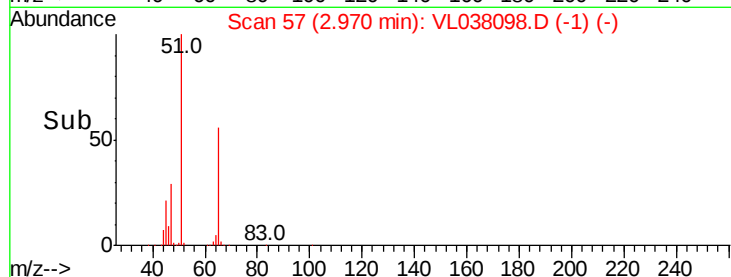
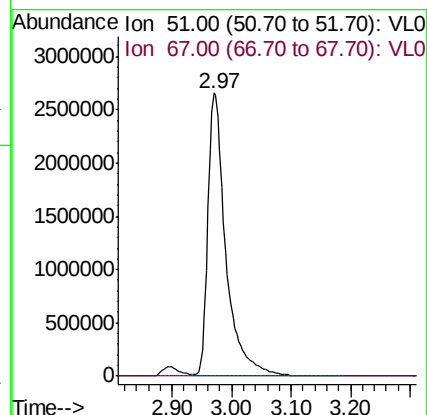
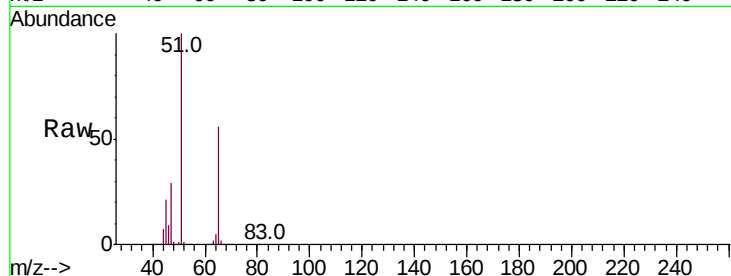
Acq: 23 Nov 2021 14:00

Tot Ion: 51 Resp: 5571908

Ion Ratio Lower Upper

51 100

67 0.2 13.8 20.8#



#4

Chloromethane

Concen: 0.458 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL038098.D

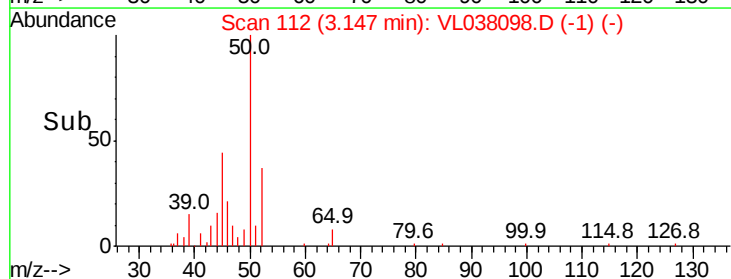
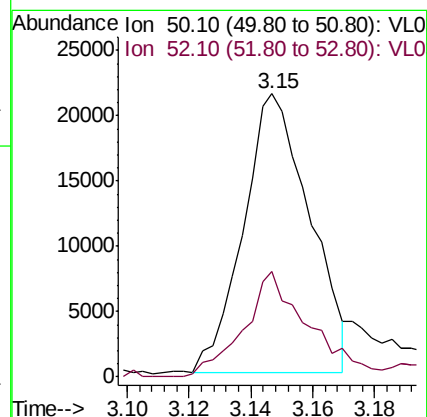
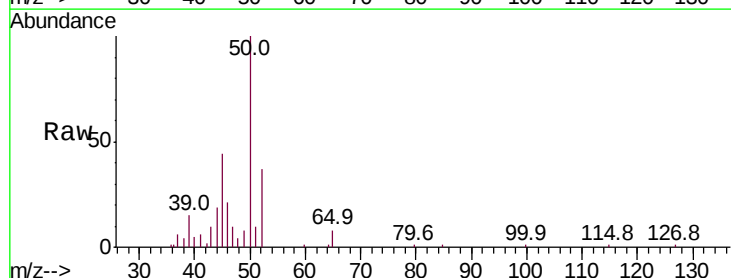
Acq: 23 Nov 2021 14:06

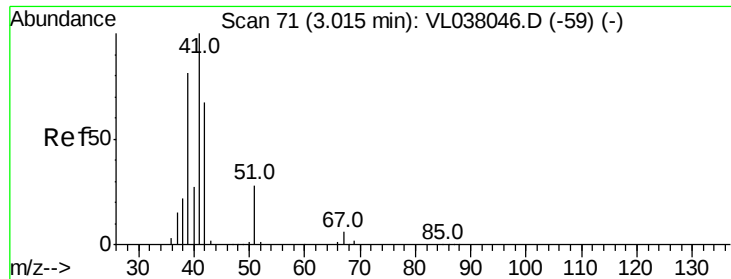
Tgt Ion: 50 Resp: 31700

Ion Ratio Lower Upper

50 100

52 36.7 25.4 38.0





#9

Propene

Concen: 8.892 ppbv

RT: 3.21 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

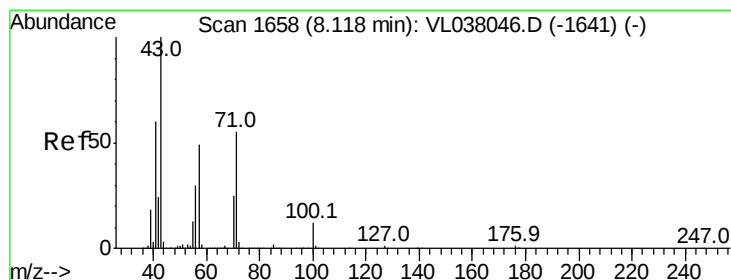
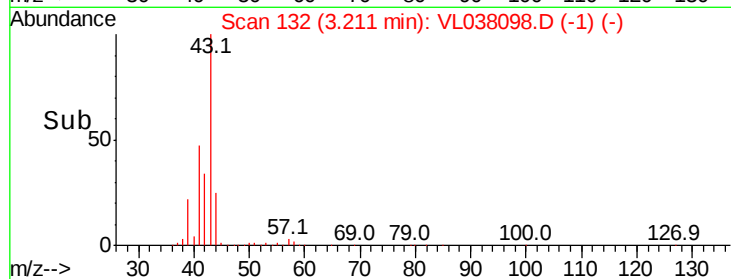
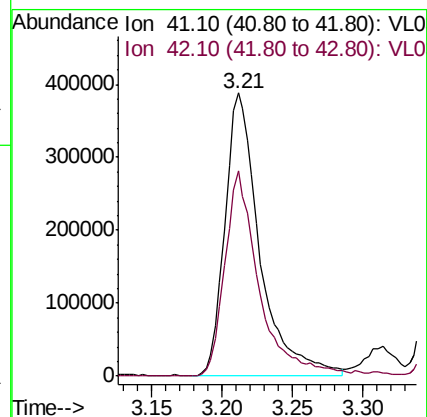
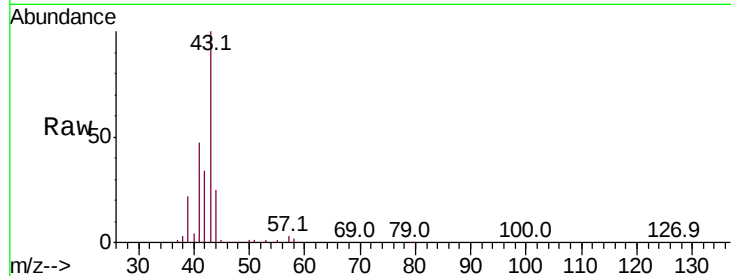
Acq: 23 Nov 2021 14:00

Tot Ion: 41 Resp: 666063

Ion Ratio Lower Upper

41 100

42 72.4 53.8 80.8



#10

Heptane

Concen: 0.360 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. 0.00 min

Lab File: VL038098.D

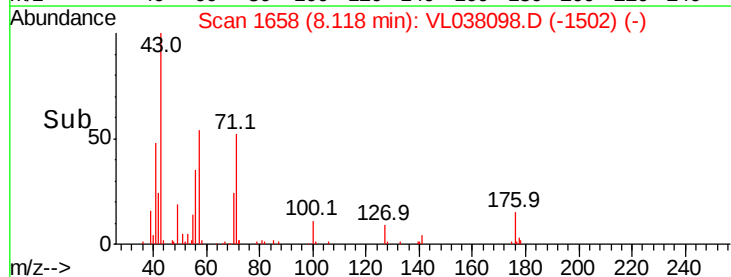
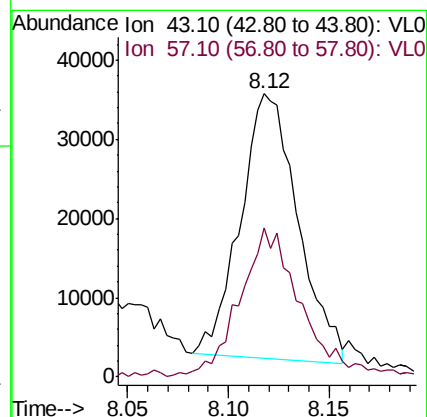
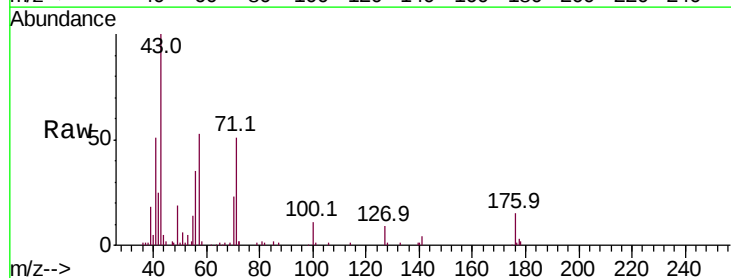
Acq: 23 Nov 2021 14:06

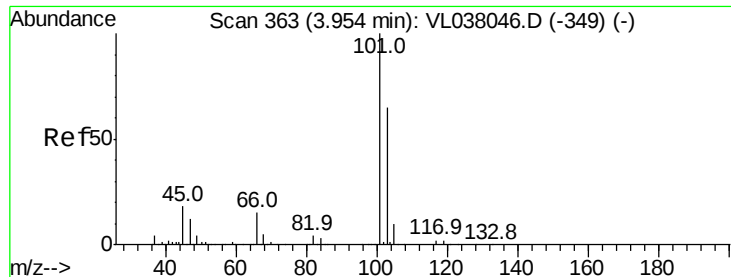
Tgt Ion: 43 Resp: 66604

Ion Ratio Lower Upper

43 100

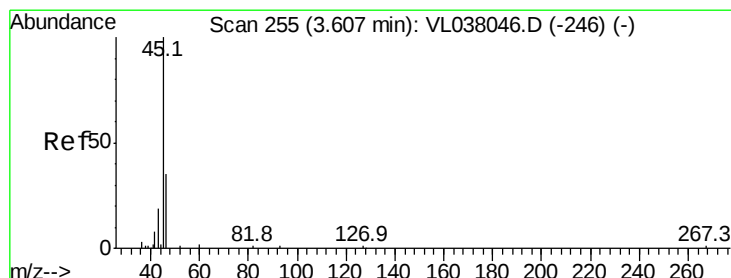
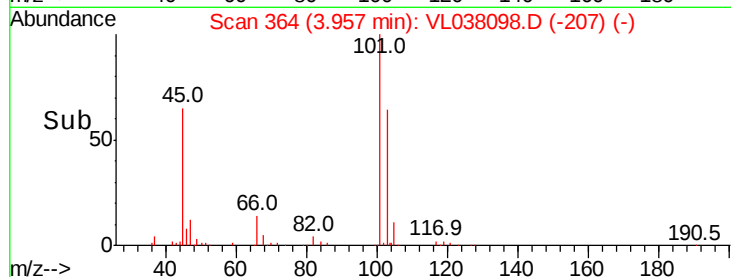
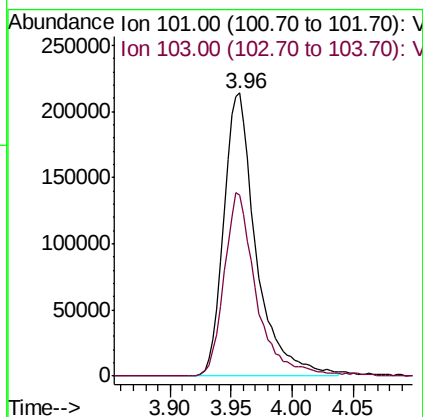
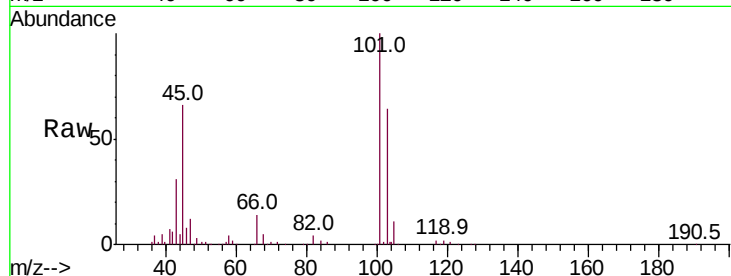
57 60.6 40.4 60.6#





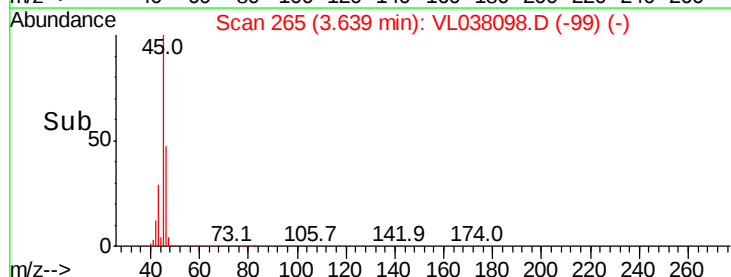
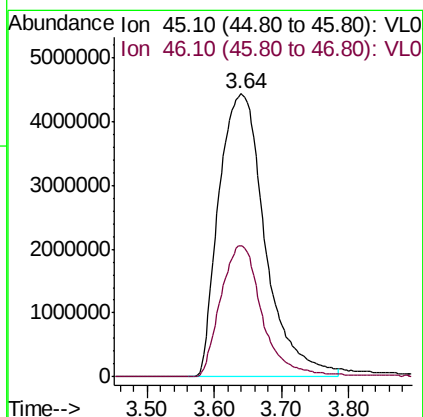
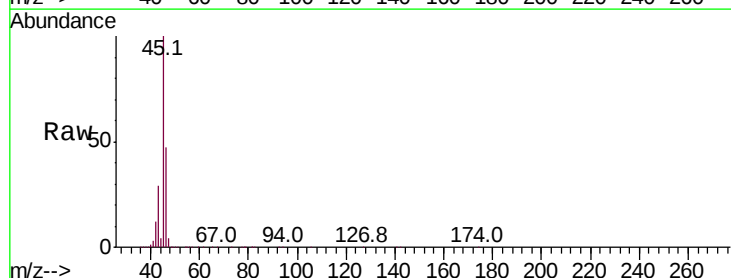
#11
 Trichlorofluoromethane
 Concen: 2.626 ppbv
 RT: 3.96
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 23 Nov 2021 14:00

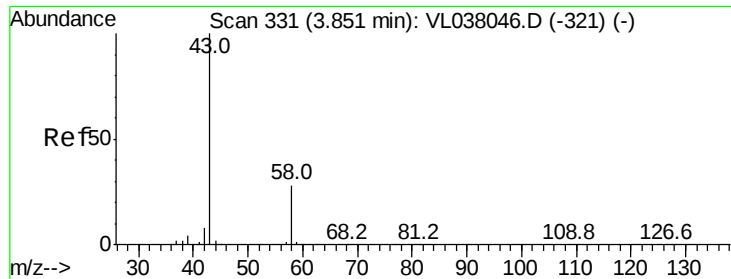
Tot Ion: 101 Resp: 399490
 Ion Ratio Lower Upper
 101 100
 103 63.9 51.8 77.6



#13
 Ethanol
 Concen: 2930.560 ppbv
 RT: 3.64 min Scan# 265
 Delta R.T. 0.03 min
 Lab File: VL038098.D
 Acq: 23 Nov 2021 14:06

Tgt Ion: 45 Resp: 21212284
 Ion Ratio Lower Upper
 45 100
 46 42.4 17.6 70.2





#15

Acetone

Concen: 54.881 ppbv

RT: 3.85 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

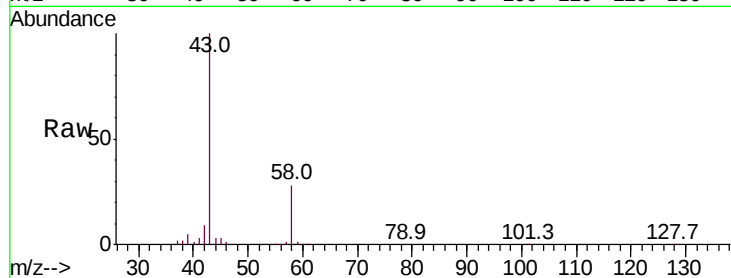
Acq: 23 Nov 2021 14:00

Tot Ion: 43 Resp: 4608198

Ion Ratio Lower Upper

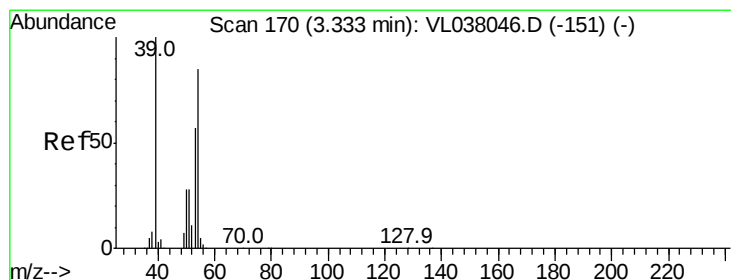
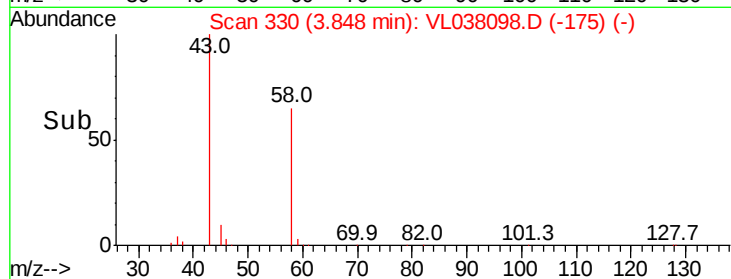
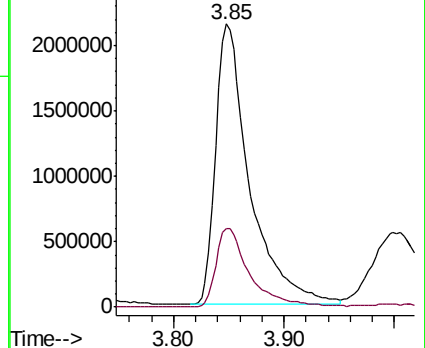
43 100

58 27.9 22.4 33.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.506 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.02 min

Lab File: VL038098.D

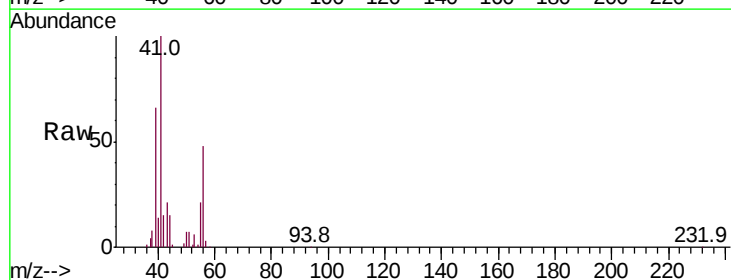
Acq: 23 Nov 2021 14:06

Tgt Ion: 39 Resp: 33141

Ion Ratio Lower Upper

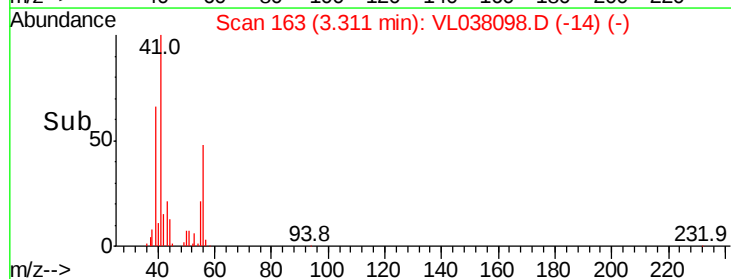
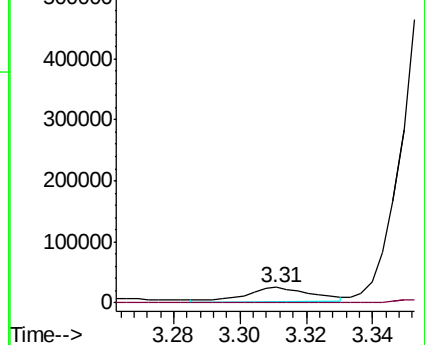
39 100

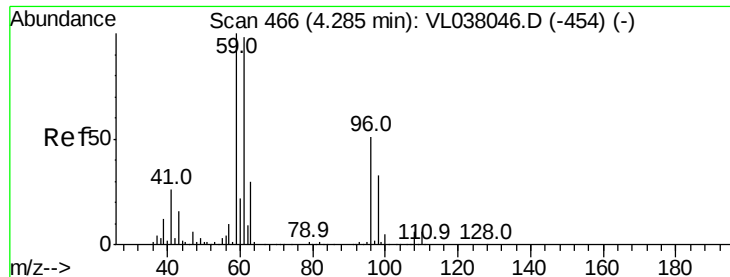
54 0.0 64.4 96.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.724 ppbv

RT: 4.33 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

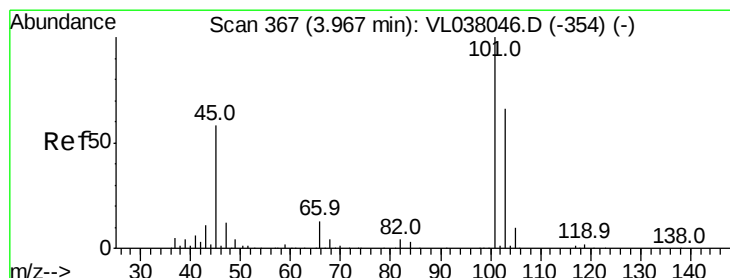
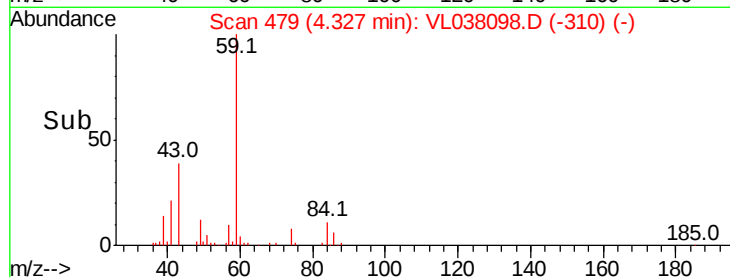
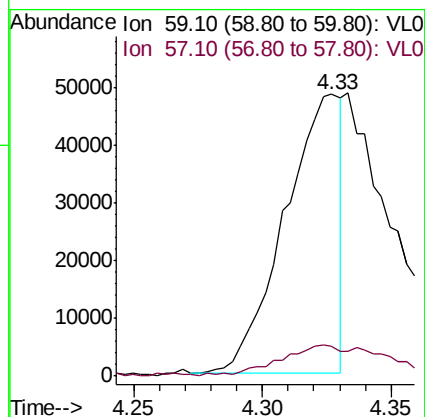
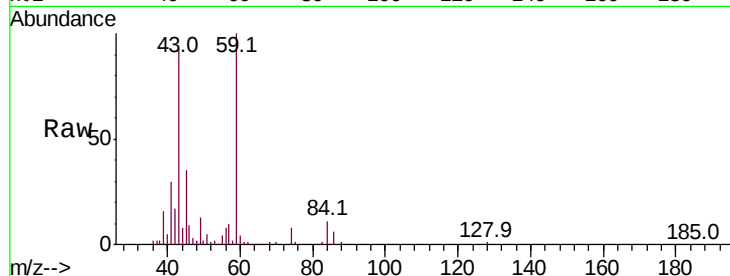
Acq: 23 Nov 2021 14:00

Tot Ion: 59 Resp: 73746

Ion Ratio Lower Upper

59 100

57 25.0 8.6 13.0#



#19

Isopropyl Alcohol

Concen: 124.472 ppbv

RT: 4.00 min Scan# 377

Delta R.T. 0.03 min

Lab File: VL038098.D

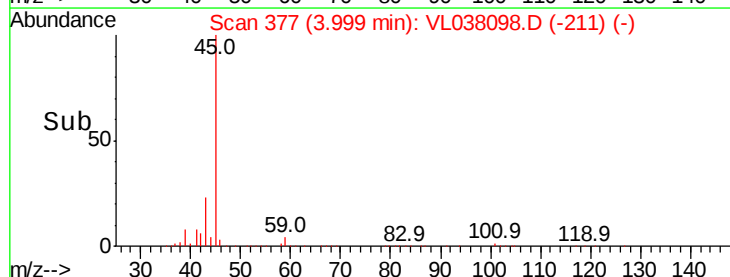
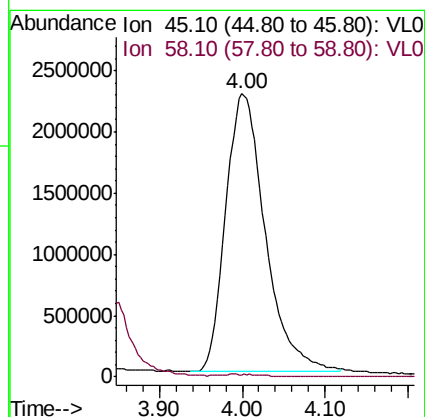
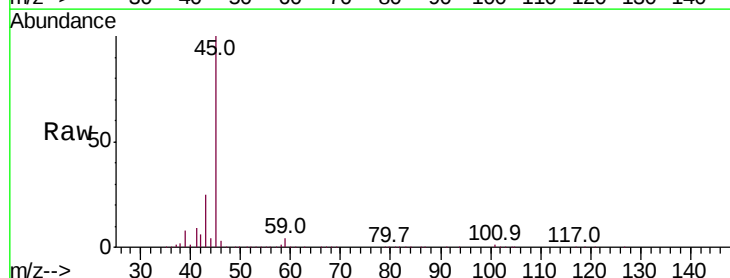
Acq: 23 Nov 2021 14:06

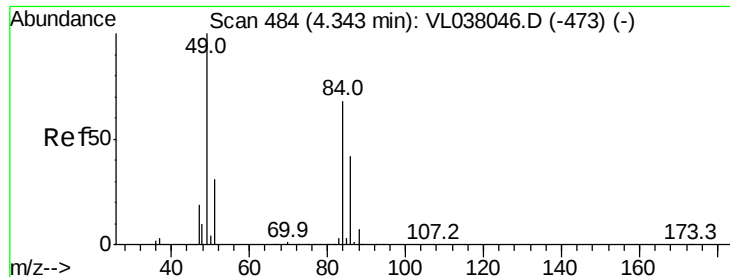
Tgt Ion: 45 Resp: 7551647

Ion Ratio Lower Upper

45 100

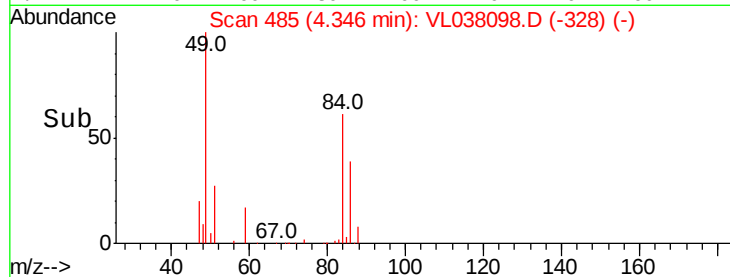
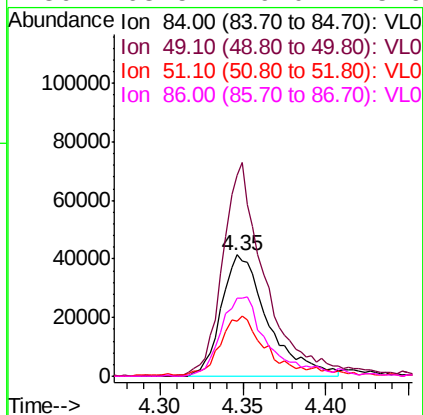
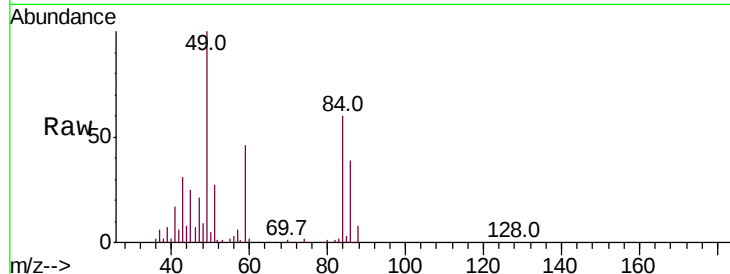
58 1.1 1.4 2.0#





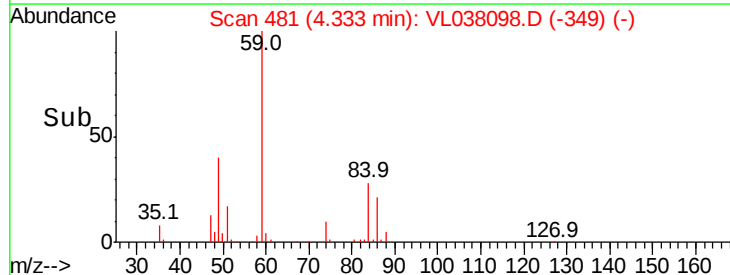
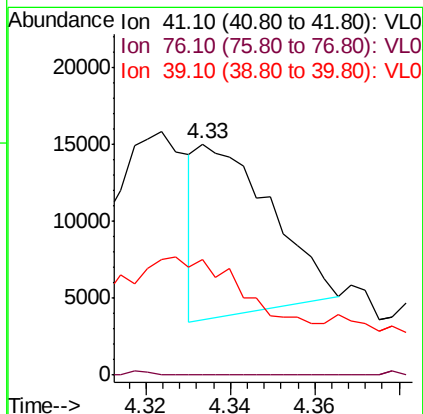
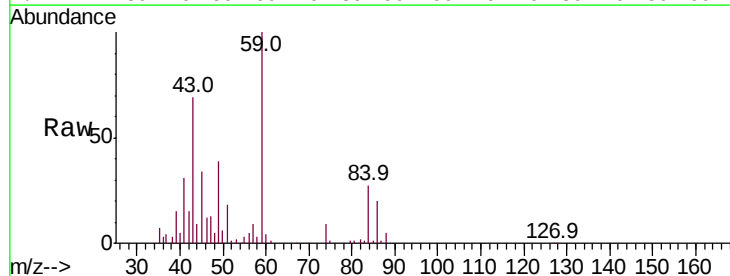
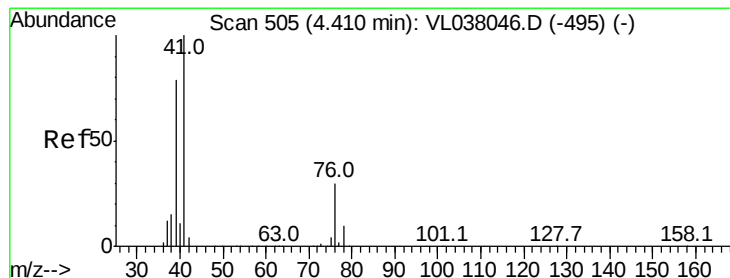
#20
Methylene Chloride
Concen: 1.721 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Nov 2021 14:00

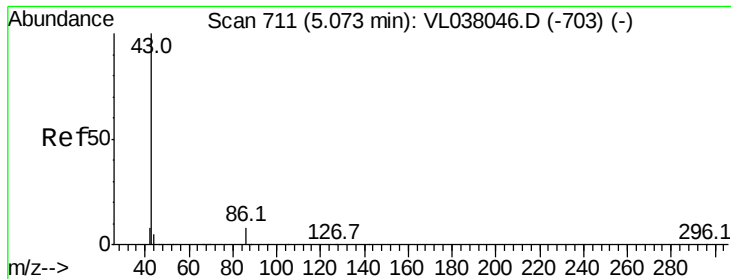
Tot Ion:	84	Resp:	80945
Ion	Ratio	Lower	Upper
84	100		
49	162.4	118.2	177.2
51	43.6	36.8	55.2
86	63.5	49.0	73.6



#21
Allyl Chloride
Concen: 0.174 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.08 min
Lab File: VL038098.D
Acq: 23 Nov 2021 14:06

Tgt Ion:	41	Resp:	13512
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.6	36.8#
39	0.0	63.4	95.0#





#23

Vinyl Acetate

Concen: 1.104 ppbv

RT: 5.06 Instrument:

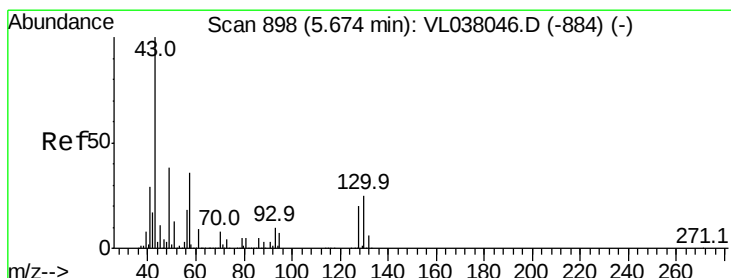
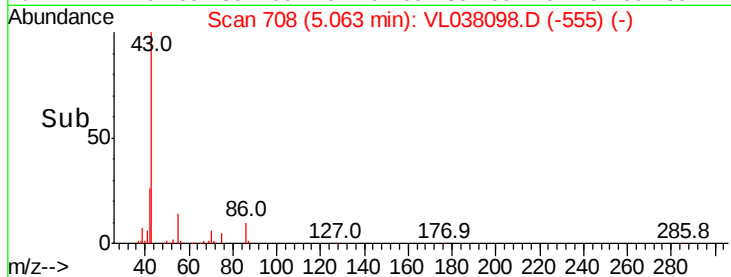
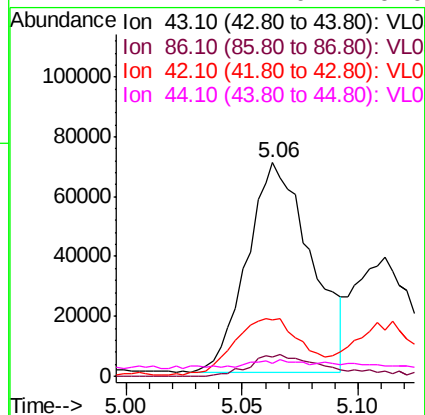
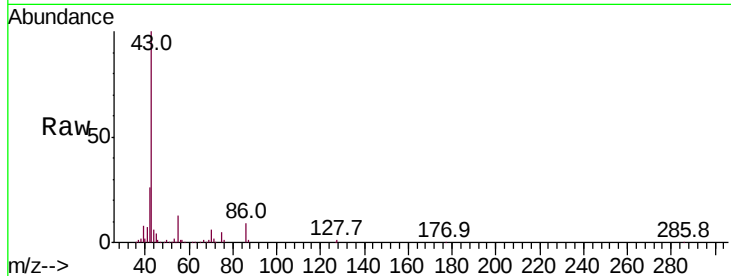
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 23 Nov 2021 14:00

Tot Ion: 43 Resp: 134191

Ion	Ratio	Lower	Upper
43	100		
86	9.2	5.3	7.9#
42	24.8	7.0	10.6#
44	1.4	4.0	6.0#



#25

Ethyl Acetate

Concen: 1.386 ppbv

RT: 5.68 min Scan# 899

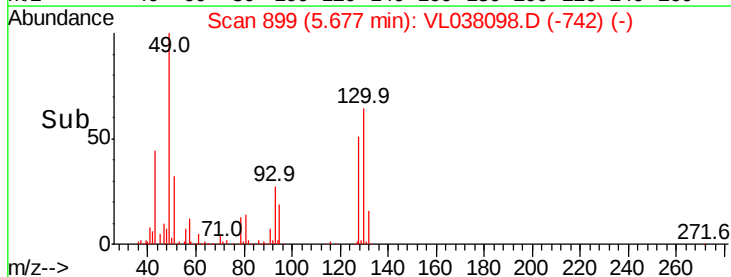
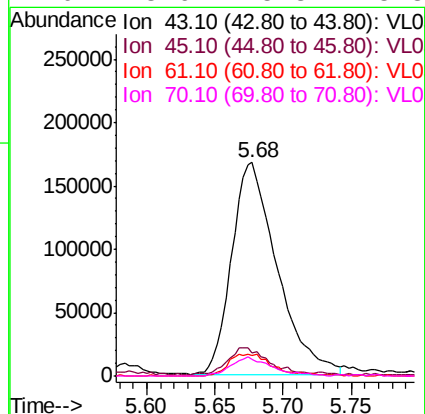
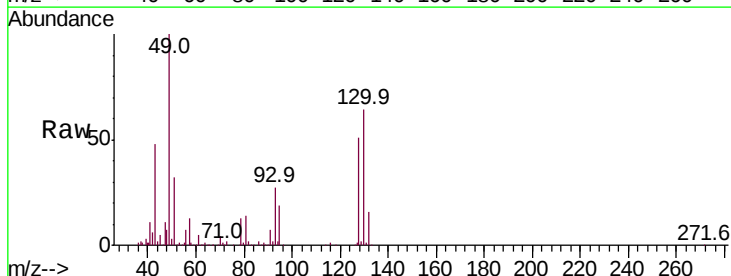
Delta R.T. 0.00 min

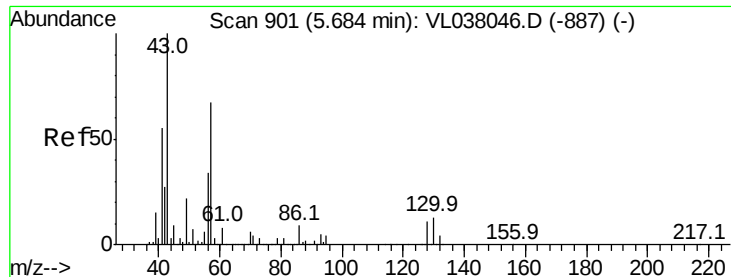
Lab File: VL038098.D

Acq: 23 Nov 2021 14:06

Tgt Ion: 43 Resp: 386857

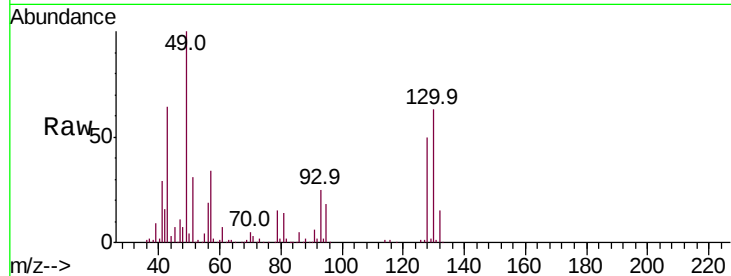
Ion	Ratio	Lower	Upper
43	100		
45	12.6	7.9	11.9#
61	10.5	7.8	11.6
70	8.6	5.8	8.8



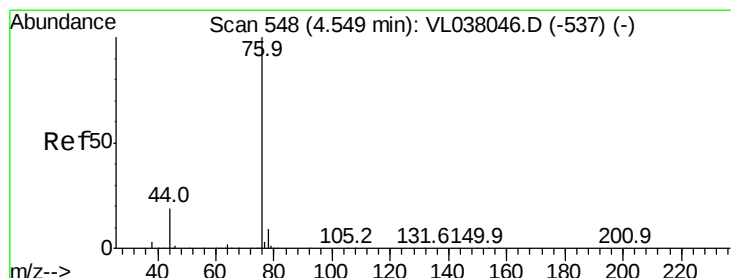
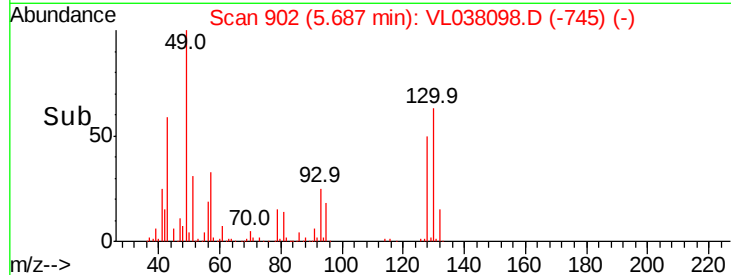
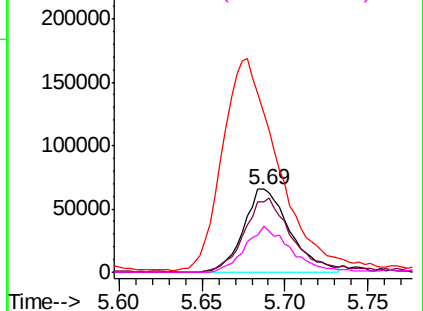


#26
Hexane
Concen: 0.946 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
IA-PURE-BARREDUP
Acq: 23 Nov 2021 14:00

Tot Ion: 57 Resp: 127238
Ion Ratio Lower Upper
57 100
41 95.8 71.4 107.2
43 314.4 174.6 261.8#
56 55.1 43.2 64.8

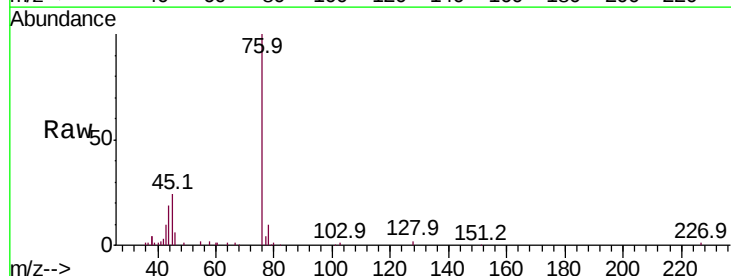


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

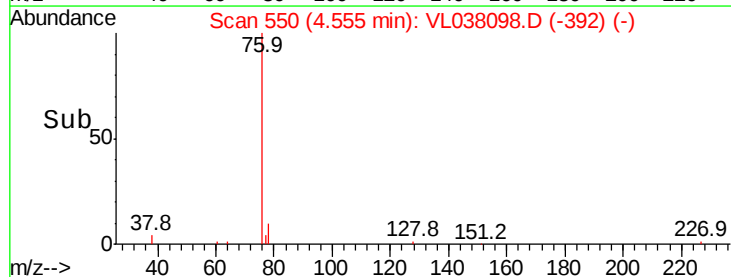
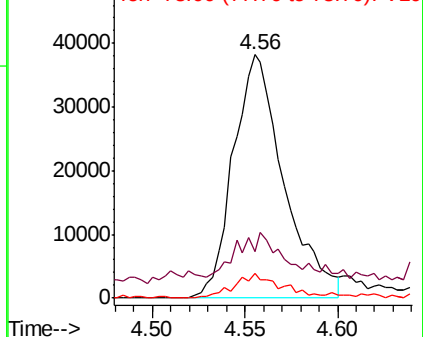


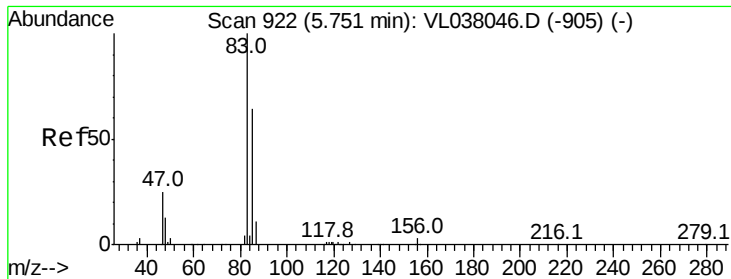
#27
Carbon Disulfide
Concen: 0.600 ppbv
RT: 4.56 min Scan# 550
Delta R.T. 0.01 min
Lab File: VL038098.D
Acq: 23 Nov 2021 14:06

Tgt Ion: 76 Resp: 72334
Ion Ratio Lower Upper
76 100
44 25.5 14.9 22.3#
78 10.9 7.6 11.4



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





#29

Chloroform

Concen: 0.233 ppbv

RT: 5.76 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

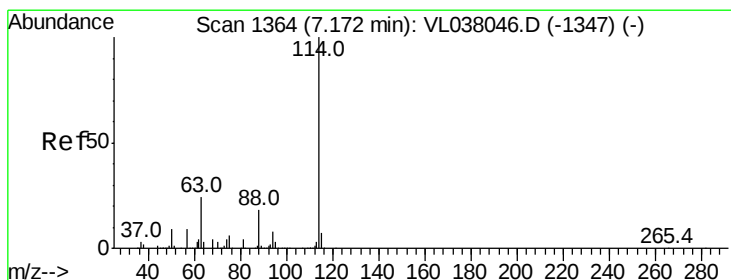
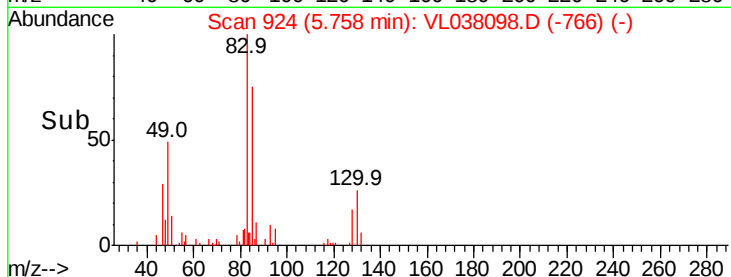
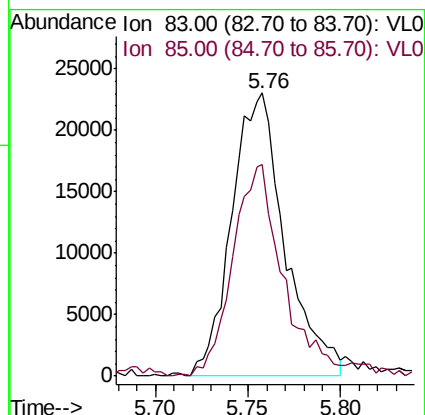
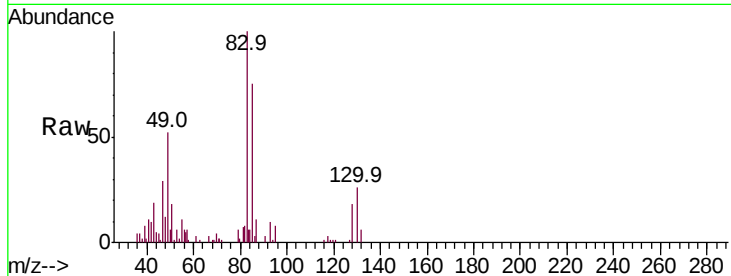
Acq: 23 Nov 2021 14:00

Tot Ion: 83 Resp: 46146

Ion Ratio Lower Upper

83 100

85 74.8 51.0 76.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. 0.00 min

Lab File: VL038098.D

Acq: 23 Nov 2021 14:06

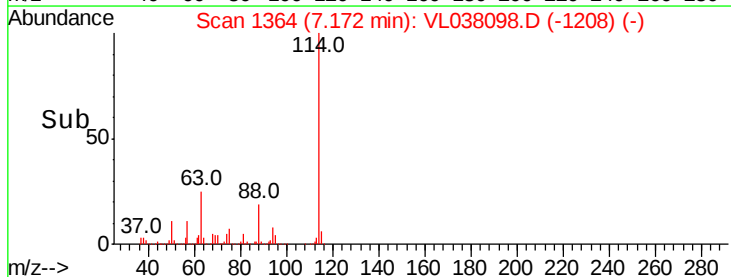
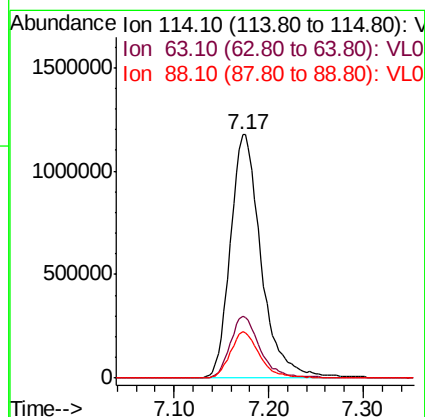
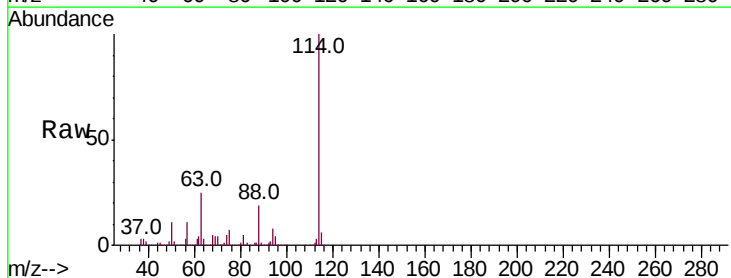
Tgt Ion: 114 Resp: 2658950

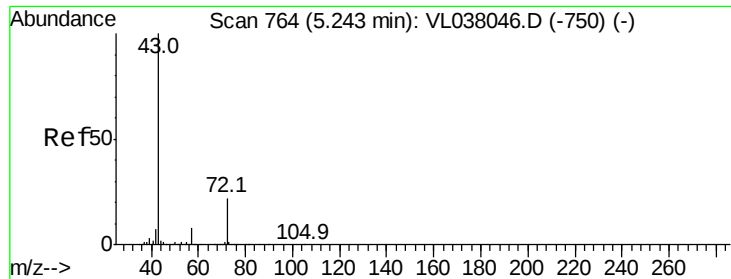
Ion Ratio Lower Upper

114 100

63 24.9 19.7 29.5

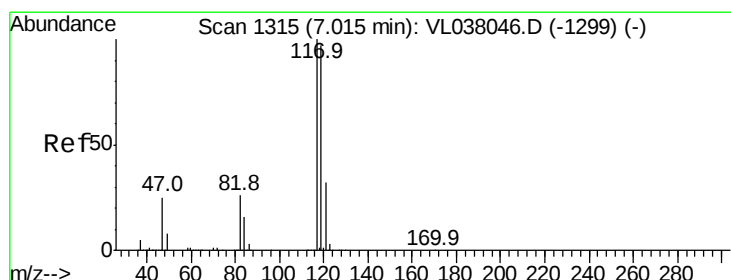
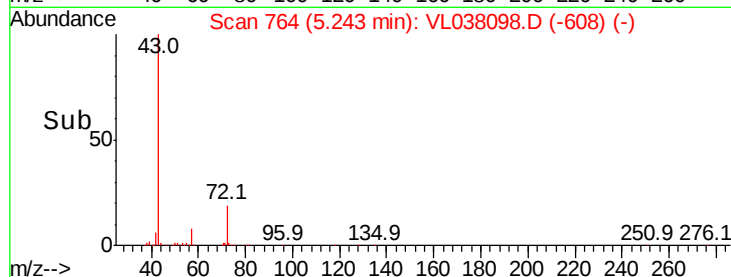
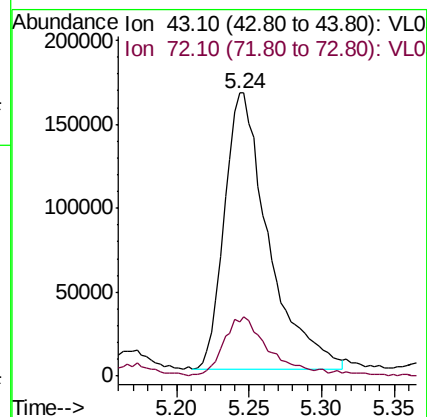
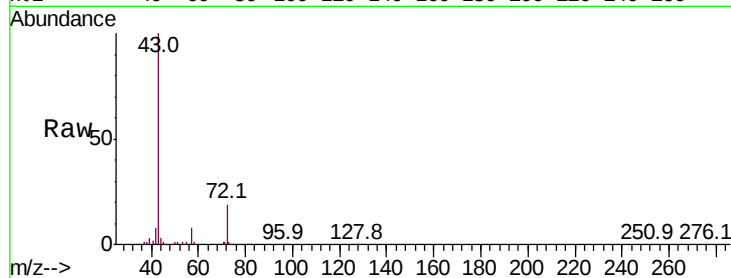
88 18.6 14.4 21.6





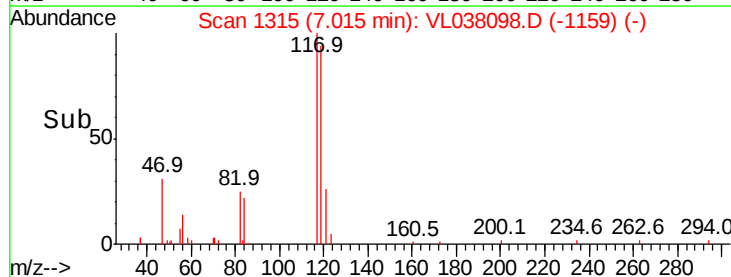
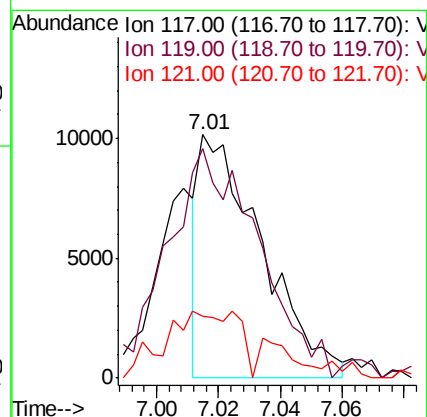
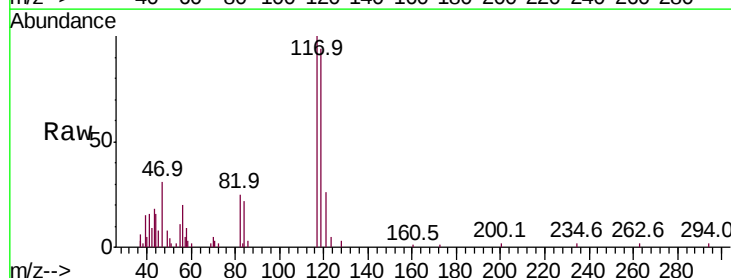
#34
2-Butanone
Concen: 3.247 ppbv
RT: 5.24
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Nov 2021 14:00

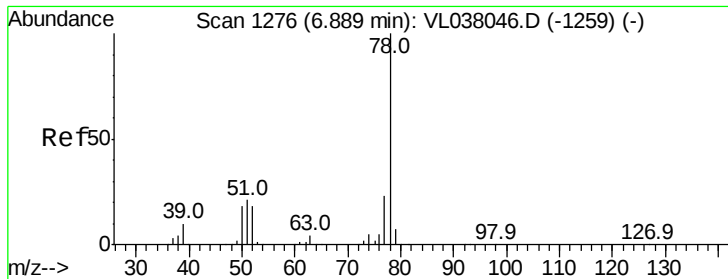
Tot Ion: 43 Resp: 348148
Ion Ratio Lower Upper
43 100
72 23.4 18.8 28.2



#35
Carbon Tetrachloride
Concen: 0.076 ppbv
RT: 7.01 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VL038098.D
Acq: 23 Nov 2021 14:06

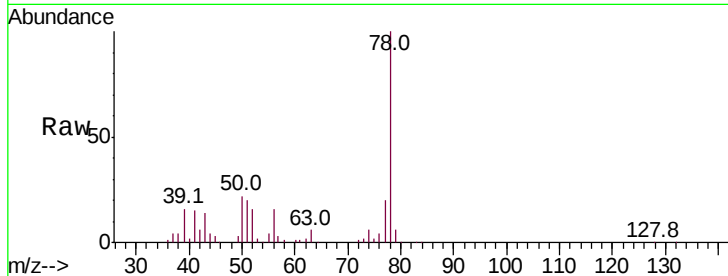
Tgt Ion: 117 Resp: 14202
Ion Ratio Lower Upper
117 100
119 95.7 77.7 116.5
121 24.5 25.6 38.4#



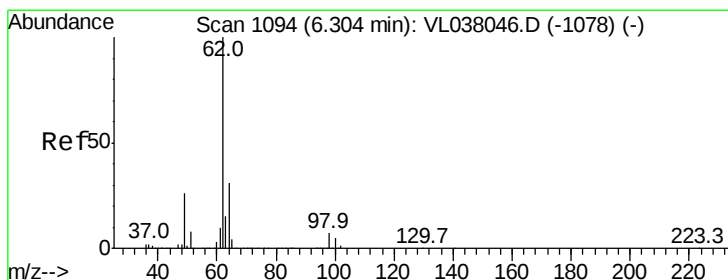
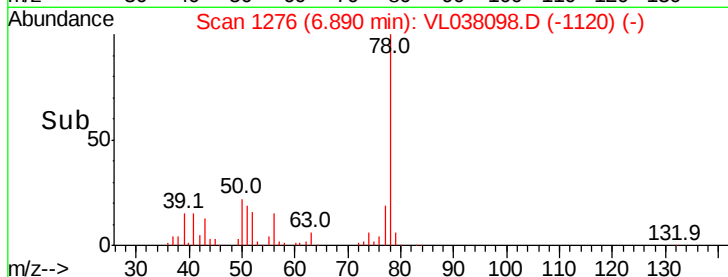
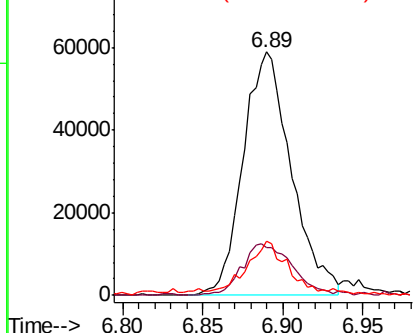


#36
Benzene
Concen: 0.459 ppbv
RT: 6.89
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Nov 2021 14:00

Tot Ion: 78 Resp: 121677
Ion Ratio Lower Upper
78 100
77 19.6 18.2 27.4
50 20.9 14.7 22.1

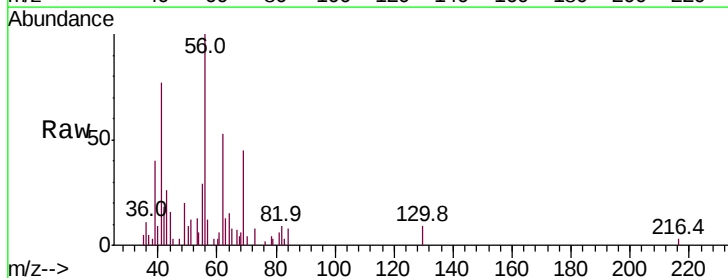


Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

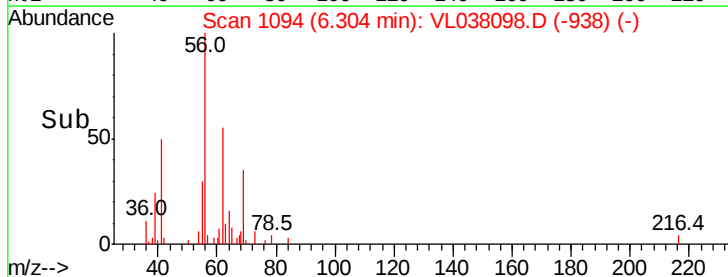
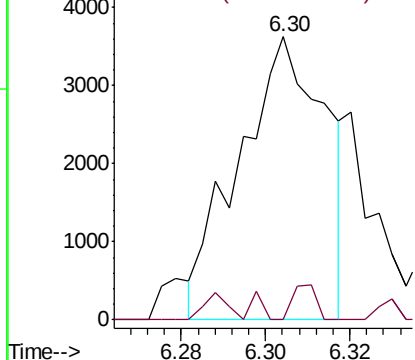


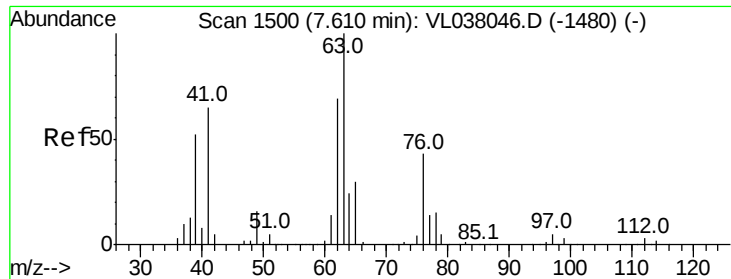
#37
1,2-Dichloroethane
Concen: 0.040 ppbv
RT: 6.30 min Scan# 1094
Delta R.T.: 0.00 min
Lab File: VL038098.D
Acq: 23 Nov 2021 14:06

Tgt Ion: 62 Resp: 5175
Ion Ratio Lower Upper
62 100
98 3.9 5.8 8.6#



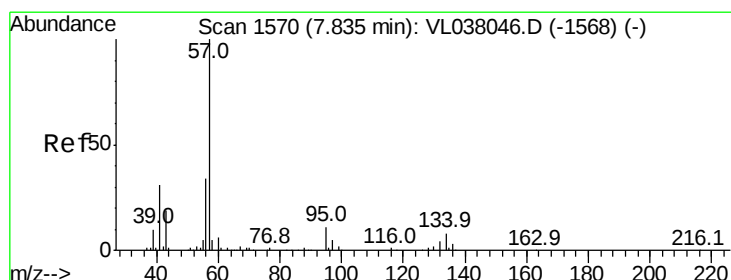
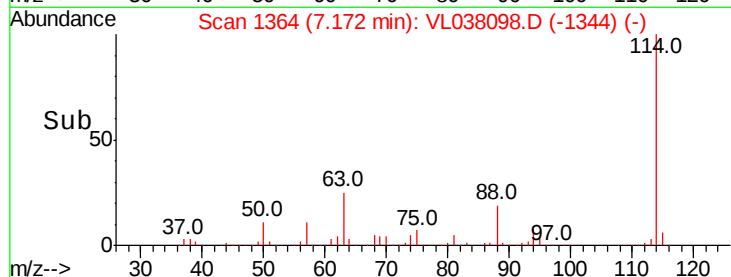
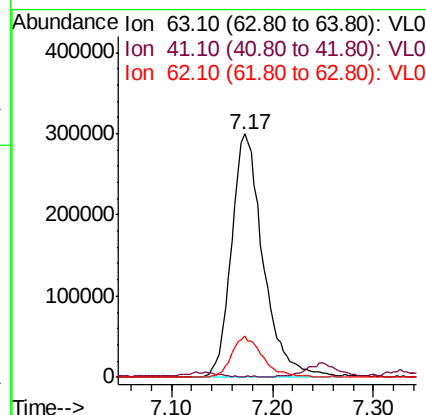
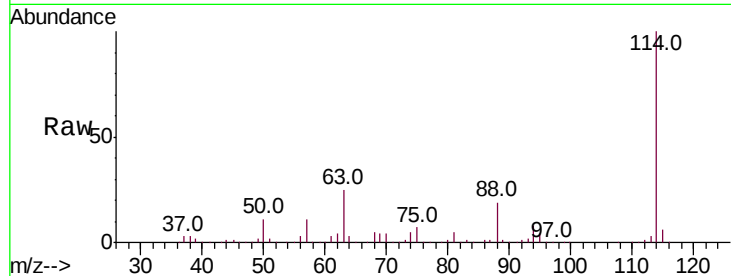
Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





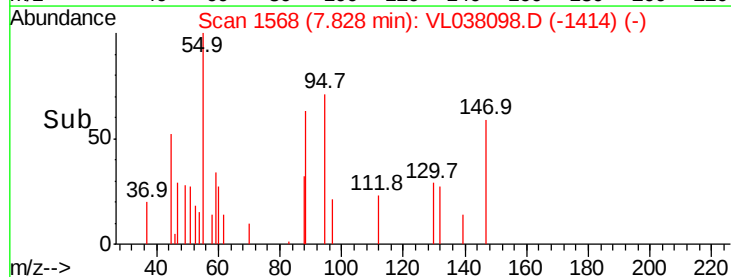
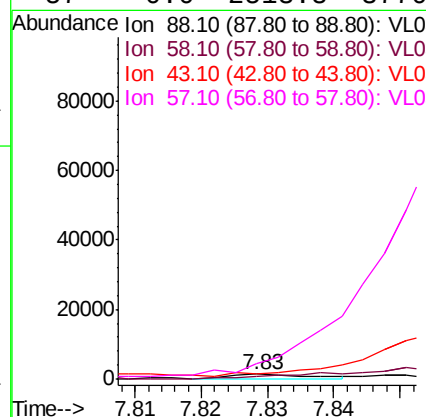
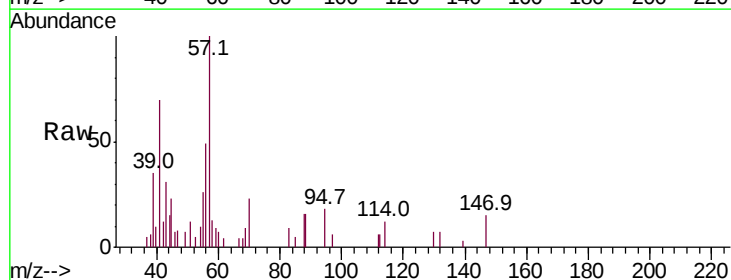
#39
 1,2-Dichloropropane
 Concen: 6.469 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 IA-PURE-BARREDUP
 Acq: 23 Nov 2021 14:00

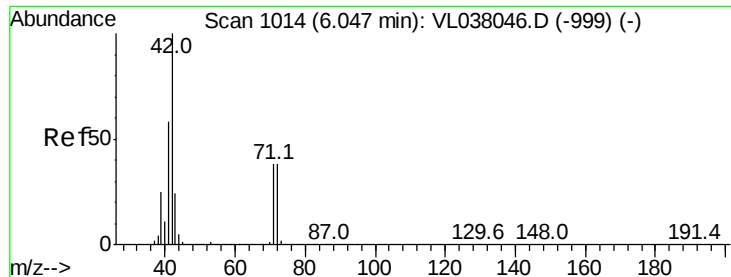
Tot Ion: 63 Resp: 658179
 Ion Ratio Lower Upper
 63 100
 41 0.0 52.3 78.5#
 62 16.8 55.1 82.7#



#40
 1,4-Dioxane
 Concen: 0.043 ppbv
 RT: 7.83 min Scan# 1568
 Delta R.T. -0.01 min
 Lab File: VL038098.D
 Acq: 23 Nov 2021 14:06

Tgt Ion: 88 Resp: 1127
 Ion Ratio Lower Upper
 88 100
 58 0.0 229.2 343.8#
 43 0.0 553.3 829.9#
 57 0.0 2513.8 3770.8#





#41

Tetrahydrofuran

Concen: 0.058 ppbv

RT: 6.04 Instrument: MSVOA_1

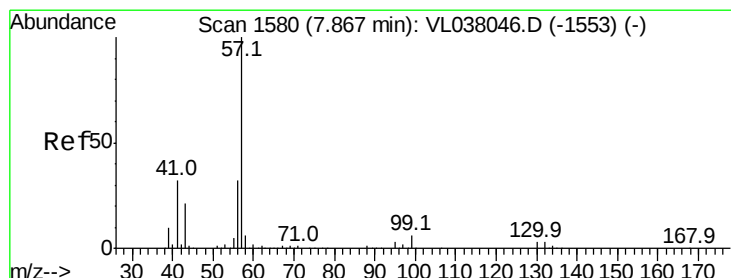
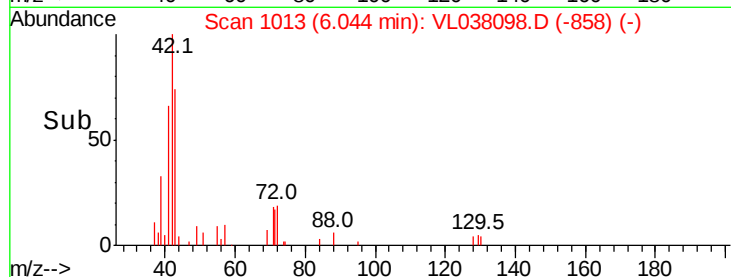
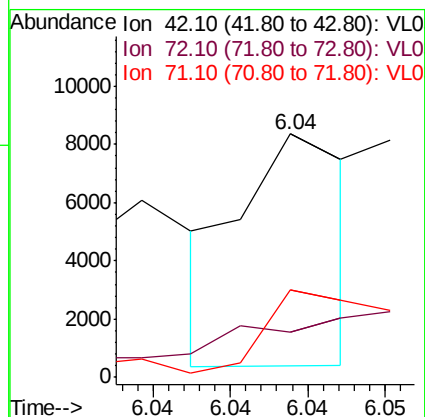
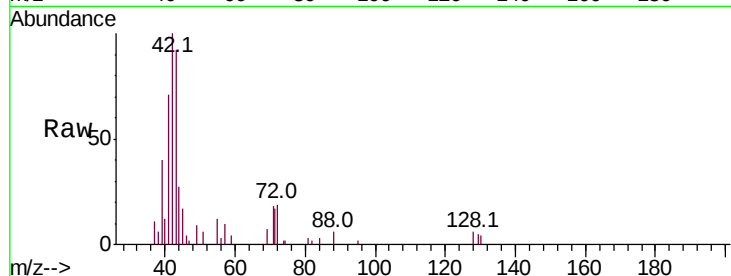
Delta R.T. 0.00

Lab File: ClientSampleId: IA-PURE-BARREDUP

Acq: 23 Nov 2021 14:00

Tot Ion: 42 Resp: 3873

Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.7	47.5#
71	0.0	30.6	46.0#



#44

2,2,4-Trimethylpentane

Concen: 0.436 ppbv

RT: 7.87 min Scan# 1580

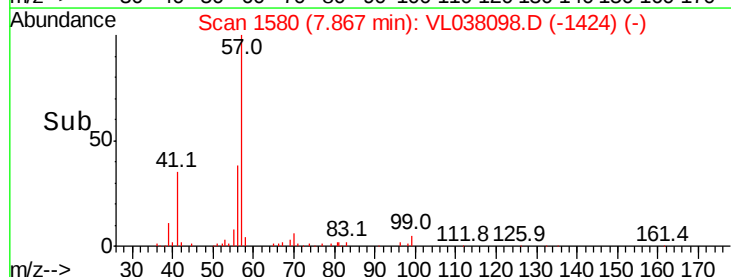
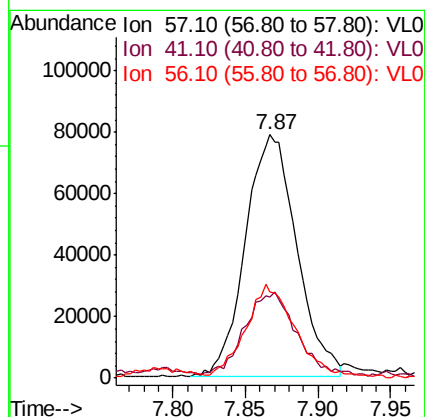
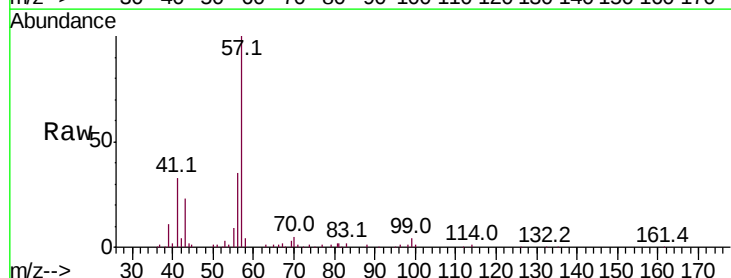
Delta R.T. 0.00 min

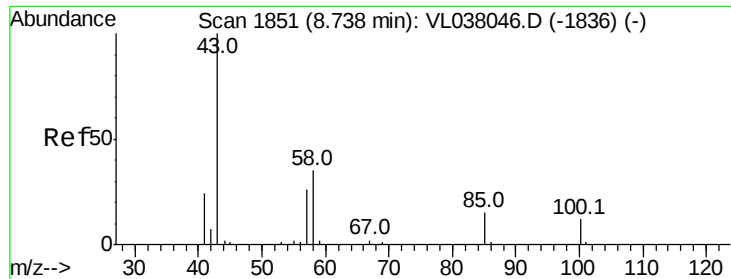
Lab File: VL038098.D

Acq: 23 Nov 2021 14:06

Tgt Ion: 57 Resp: 193327

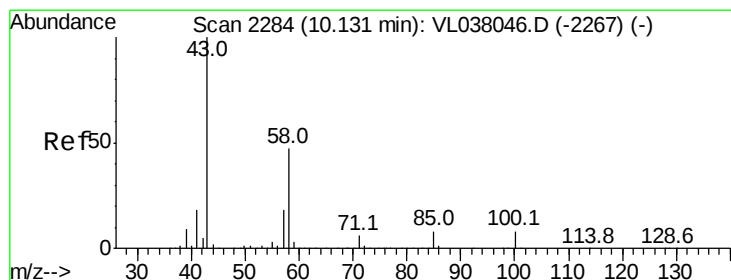
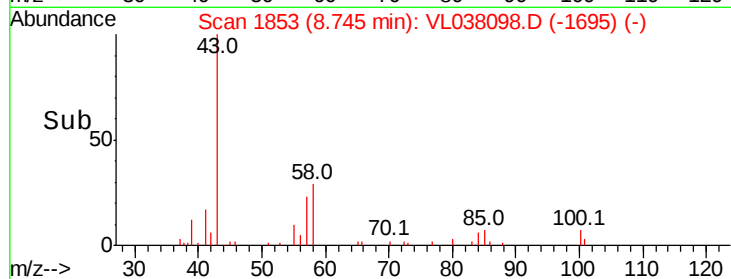
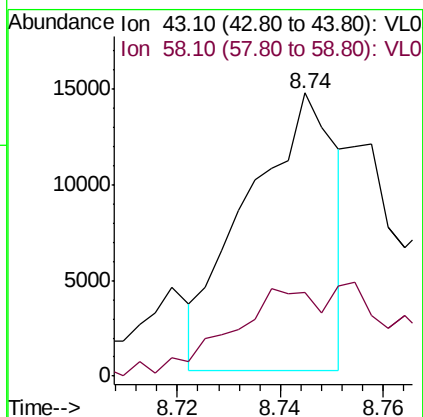
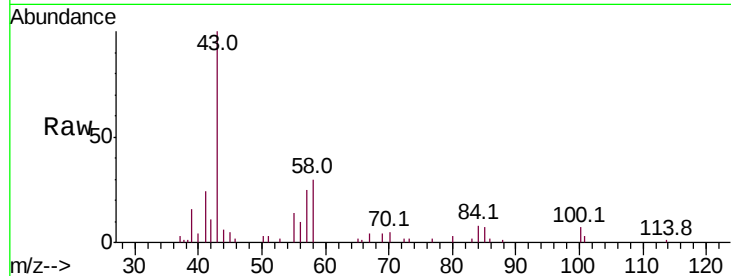
Ion	Ratio	Lower	Upper
57	100		
41	35.2	25.8	38.6
56	38.5	25.6	38.4#





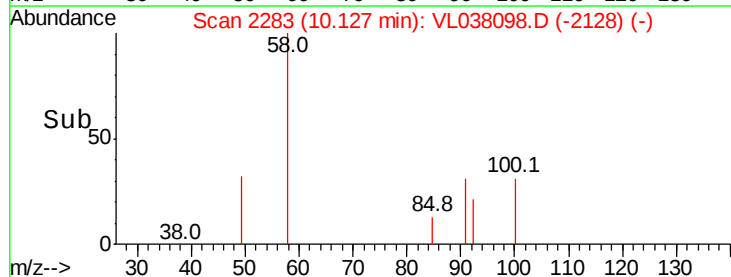
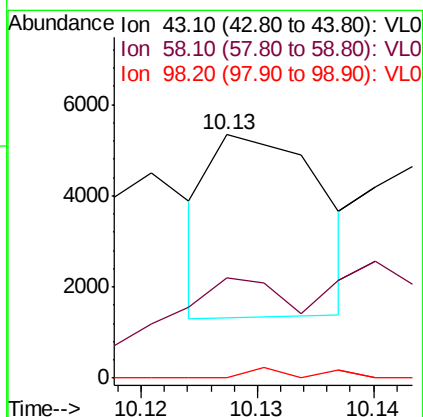
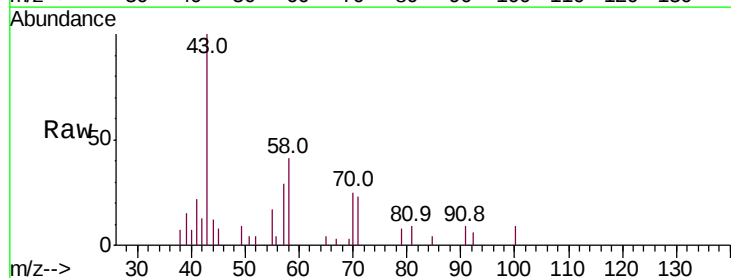
#50
4-Methyl-2-Pentanone
Concen: 0.106 ppbv
RT: 8.74 Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
IA-PURE-BARREDUP
Acq: 23 Nov 2021 14:00

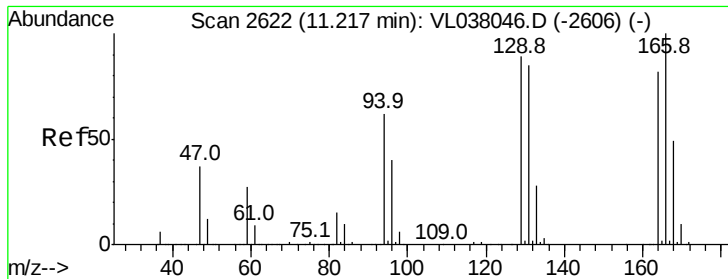
Tot Ion: 43 Resp: 17209
Ion Ratio Lower Upper
43 100
58 0.0 29.4 44.2#



#51
2-Hexanone
Concen: 0.034 ppbv
RT: 10.13 min Scan# 2283
Delta R.T.: -0.00 min
Lab File: VL038098.D
Acq: 23 Nov 2021 14:06

Tgt Ion: 43 Resp: 2623
Ion Ratio Lower Upper
43 100
58 0.0 41.1 61.7#
98 3.0 0.1 0.1#





#52

Tetrachloroethene

Concen: 0.061 ppbv

RT: 11.22

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 14:00

Tot Ion:164 Resp: 6028

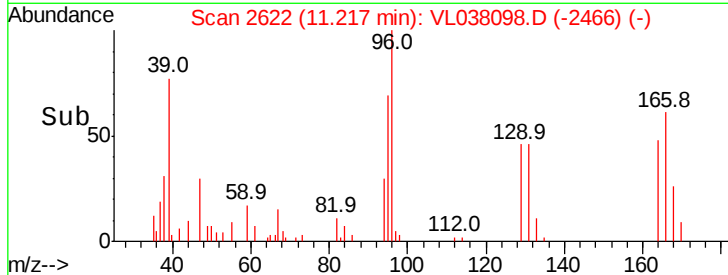
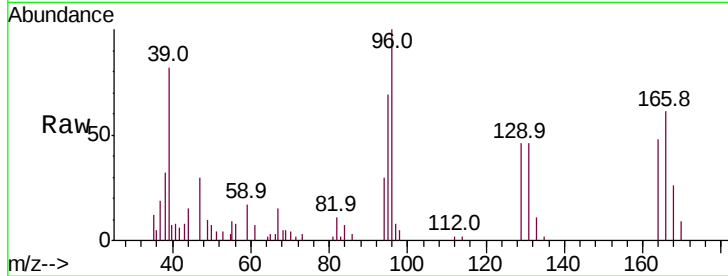
Ion Ratio Lower Upper

164 100

166 120.0 97.2 145.8

129 110.4 86.9 130.3

131 110.7 82.8 124.2



#53

Toluene

Concen: 1.834 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. 0.01 min

Lab File: VL038098.D

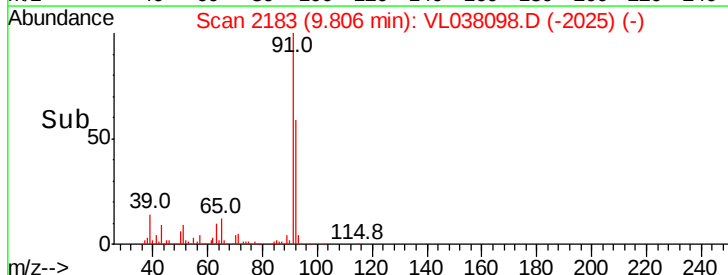
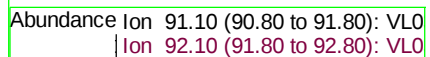
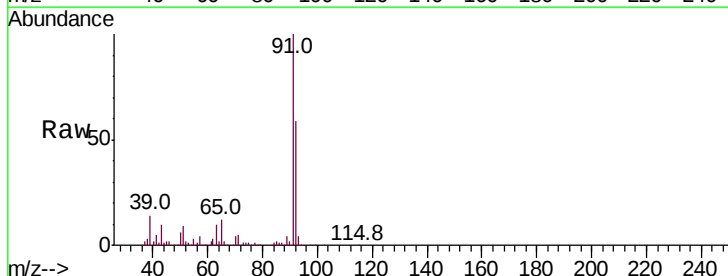
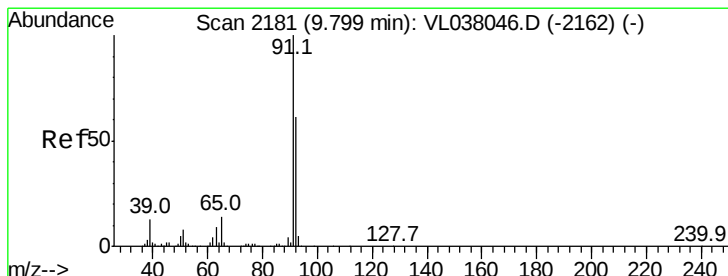
Acq: 23 Nov 2021 14:06

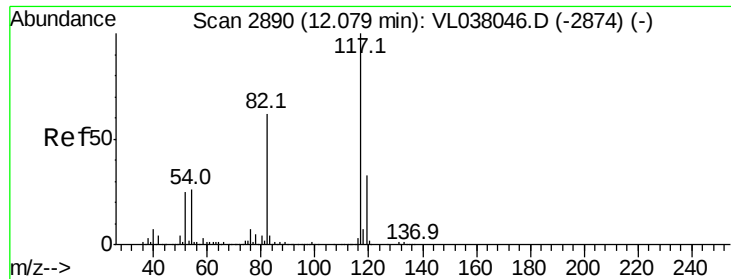
Tgt Ion: 91 Resp: 559575

Ion Ratio Lower Upper

91 100

92 62.4 49.7 74.5

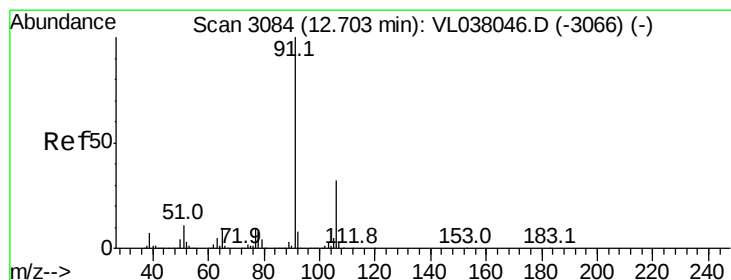
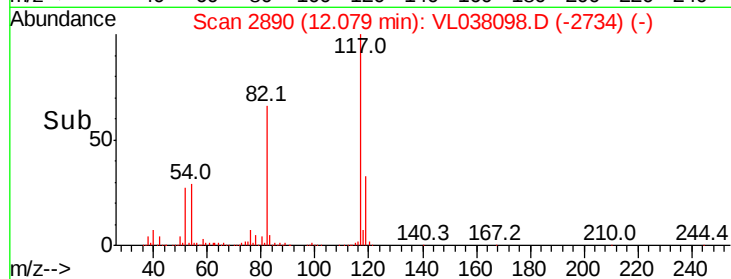
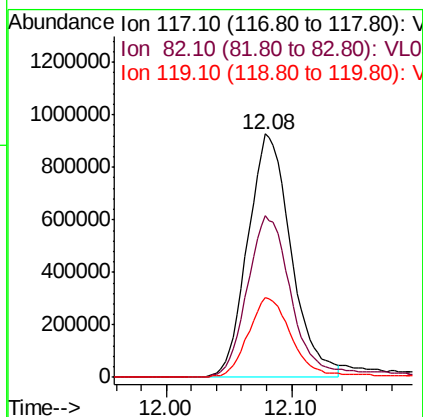
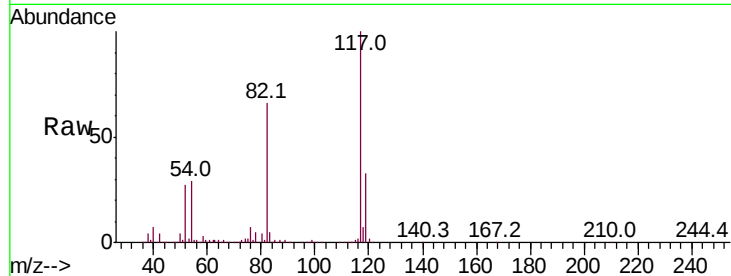




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.: 0.00 min
Lab File: ClientSampleId :
Acq: 23 Nov 2021 14:00

Tot Ion: 117 Resp: 2227092

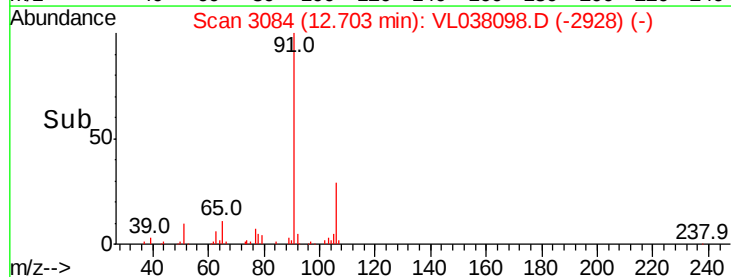
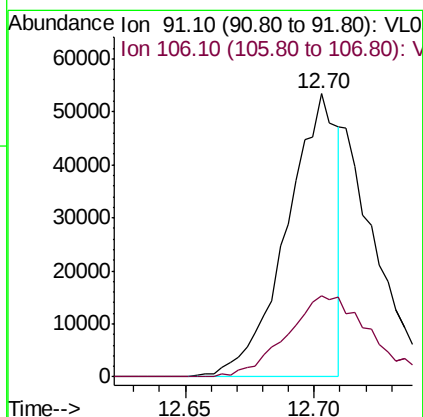
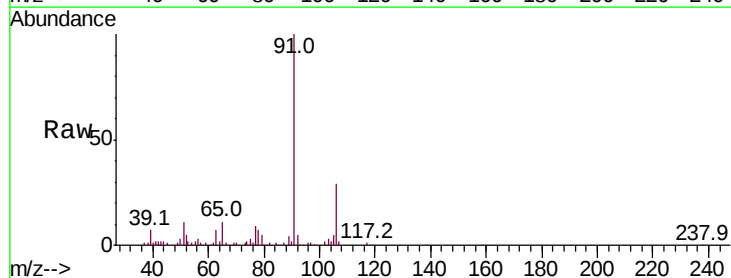
Ion	Ratio	Lower	Upper
117	100		
82	72.5	52.8	79.2
119	34.8	26.8	40.2

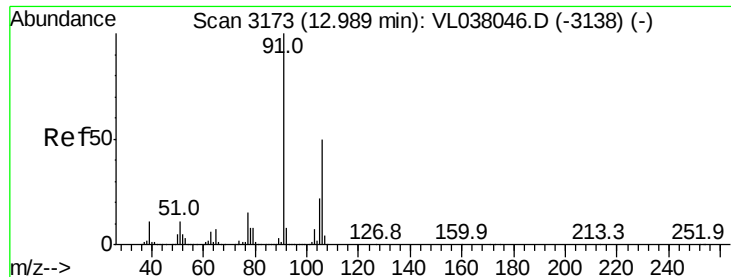


#58
Ethyl Benzene
Concen: 0.198 ppbv
RT: 12.70 min Scan# 3084
Delta R.T.: 0.00 min
Lab File: VL038098.D
Acq: 23 Nov 2021 14:06

Tgt Ion: 91 Resp: 72993

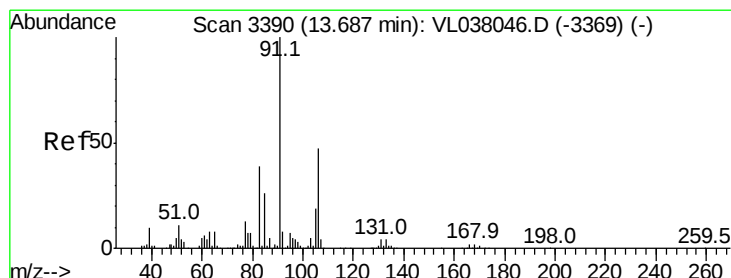
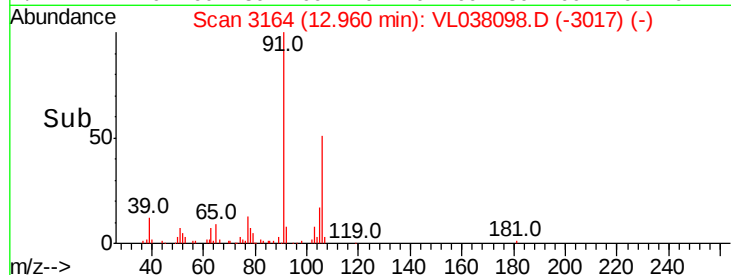
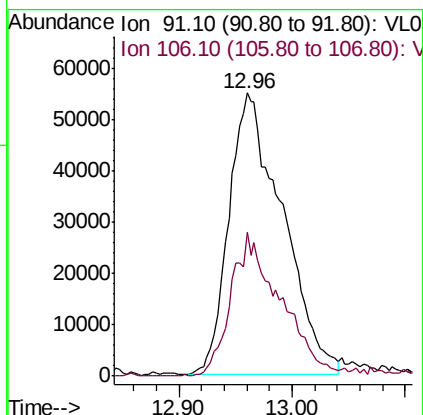
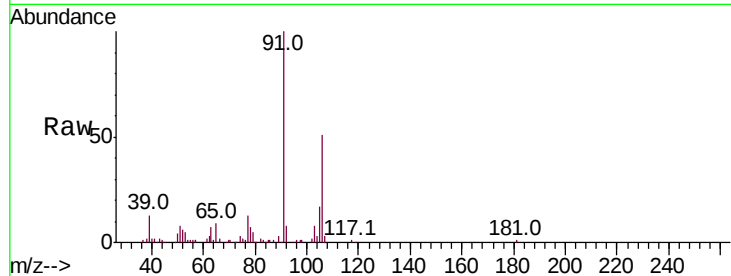
Ion	Ratio	Lower	Upper
91	100		
106	28.7	25.8	38.6





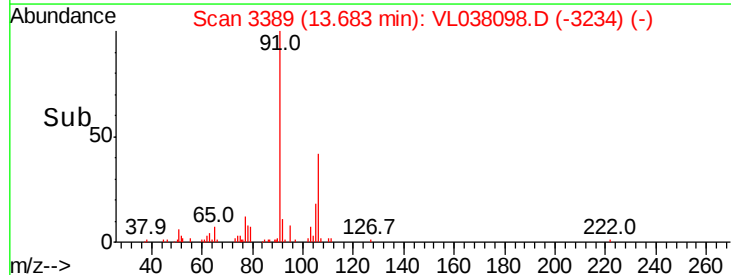
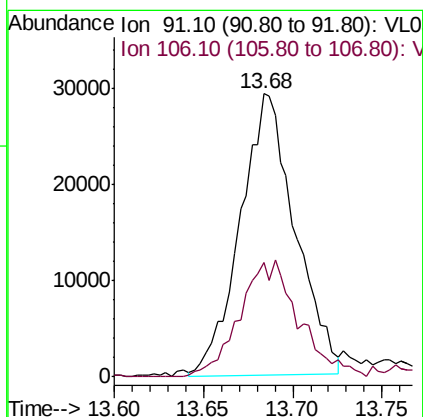
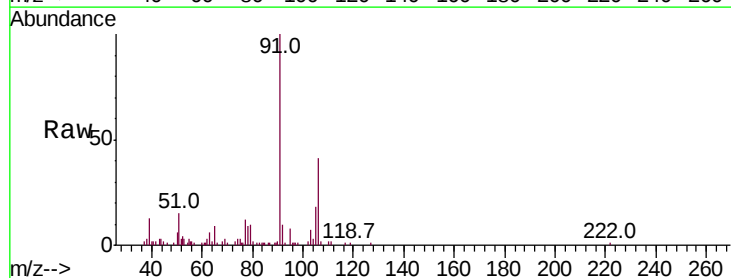
#59
m/p-Xylene
Concen: 0.583 ppbv
RT: 12.96 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Nov 2021 14:00

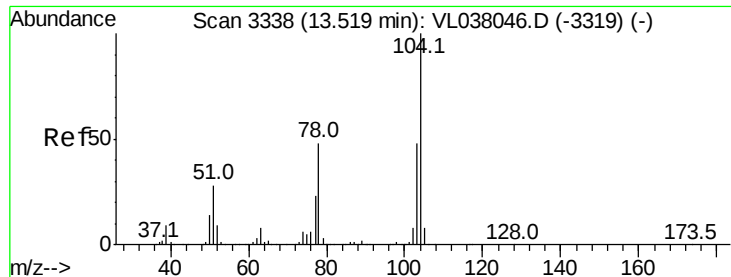
Tot Ion: 91 Resp: 180674
Ion Ratio Lower Upper
91 100
106 47.4 38.1 57.1



#60
o-Xylene
Concen: 0.219 ppbv
RT: 13.68 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VL038098.D
Acq: 23 Nov 2021 14:06

Tgt Ion: 91 Resp: 63056
Ion Ratio Lower Upper
91 100
106 44.4 24.2 72.6





#61

Stvrene

Concen: 0.378 ppbv

RT: 13.52

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 14:00

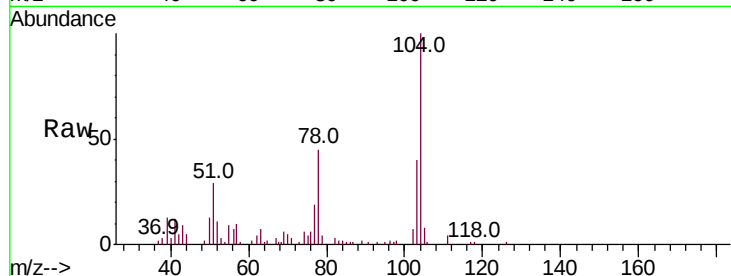
Tot Ion:104 Resp: 58300

Ion Ratio Lower Upper

104 100

78 59.5 39.8 59.6

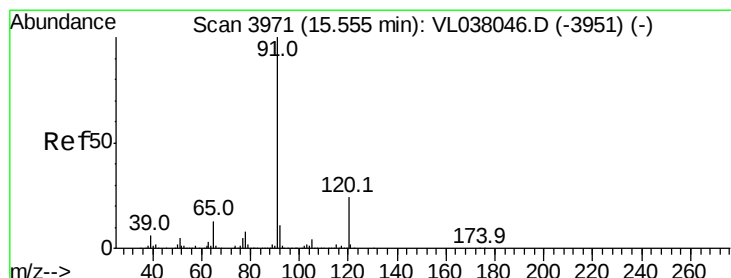
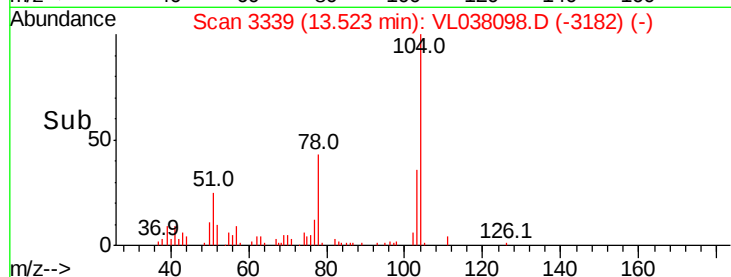
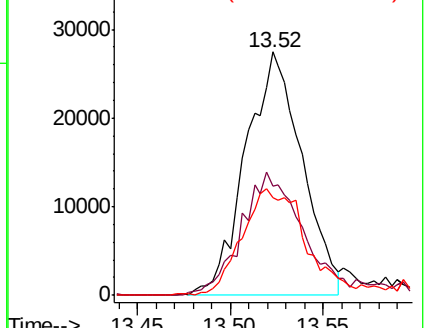
103 53.9 38.2 57.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#64

n-propylbenzene

Concen: 0.036 ppbv

RT: 15.56 min Scan# 3972

Delta R.T. 0.00 min

Lab File: VL038098.D

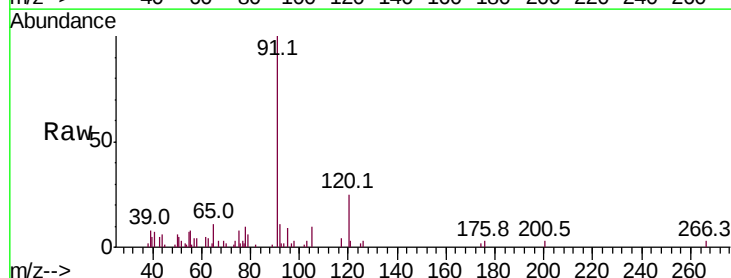
Acq: 23 Nov 2021 14:06

Tgt Ion:120 Resp: 3780

Ion Ratio Lower Upper

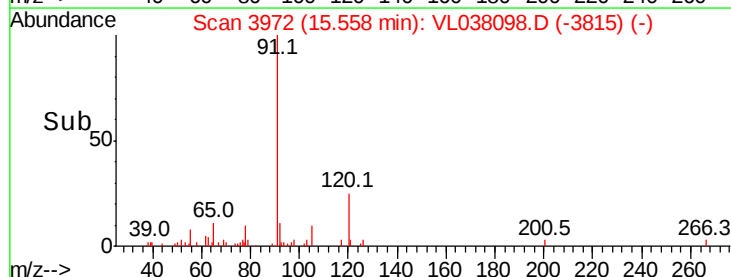
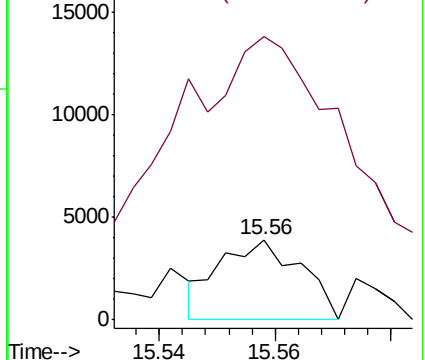
120 100

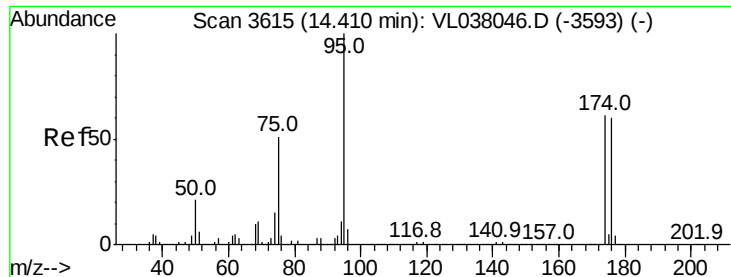
91 890.6 371.7 557.5#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.997 ppbv

RT: 14.41

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 14:00

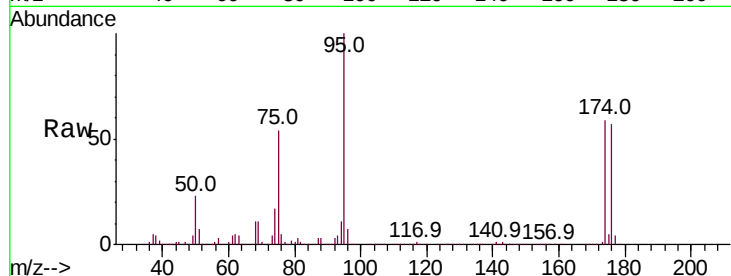
Tot Ion: 95 Resp: 1766624

Ion Ratio Lower Upper

95 100

174 63.2 53.1 79.7

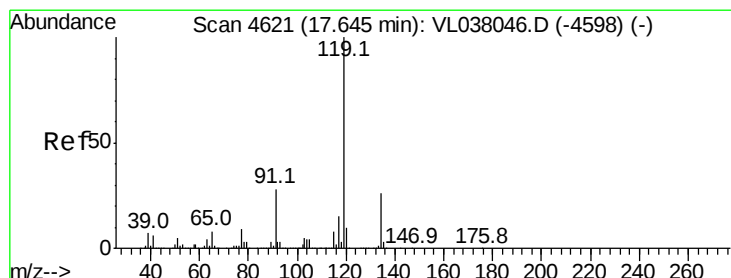
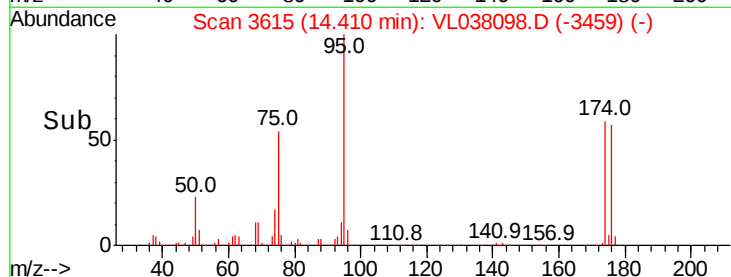
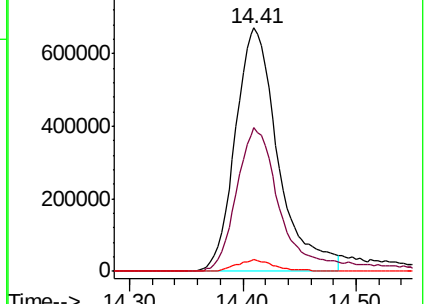
175 4.8 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL038046.D (-3593) (-)

Ion 174.00 (173.70 to 174.70): VL038046.D (-3593) (-)

Ion 175.00 (174.70 to 175.70): VL038046.D (-3593) (-)



#69

p-Isopropyltoluene

Concen: 0.122 ppbv

RT: 17.64 min Scan# 4620

Delta R.T. -0.00 min

Lab File: VL038098.D

Acq: 23 Nov 2021 14:06

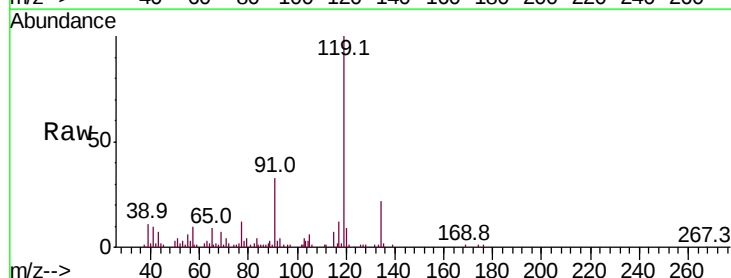
Tgt Ion: 119 Resp: 47790

Ion Ratio Lower Upper

119 100

134 41.1 20.6 30.8#

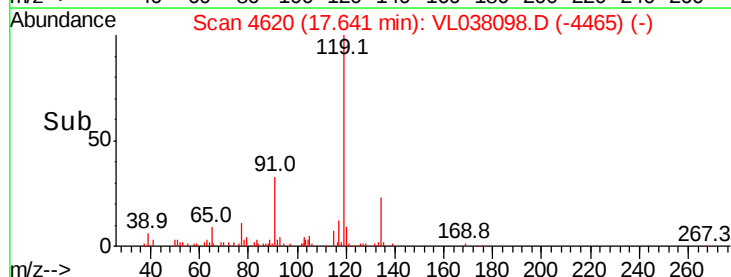
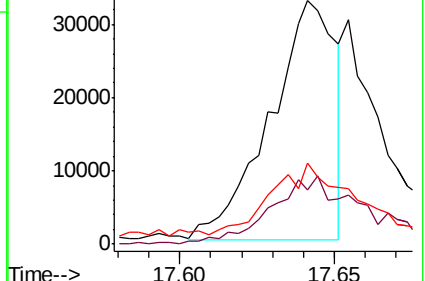
91 58.7 22.2 33.4#

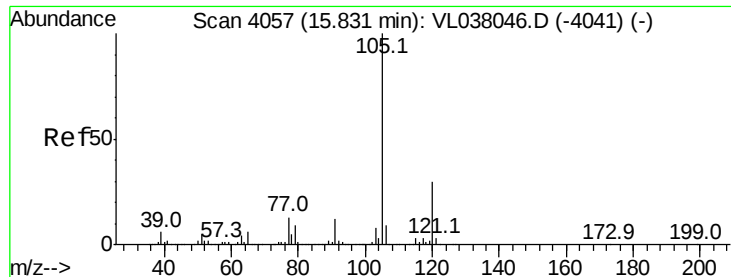


Abundance Ion 119.10 (118.80 to 119.80): VL038046.D (-4598) (-)

Ion 134.20 (133.90 to 134.90): VL038046.D (-4598) (-)

Ion 91.10 (90.80 to 91.80): VL038046.D (-4598) (-)





#72

4-Ethyltoluene

Concen: 0.065 ppbv

RT: 15.83 min

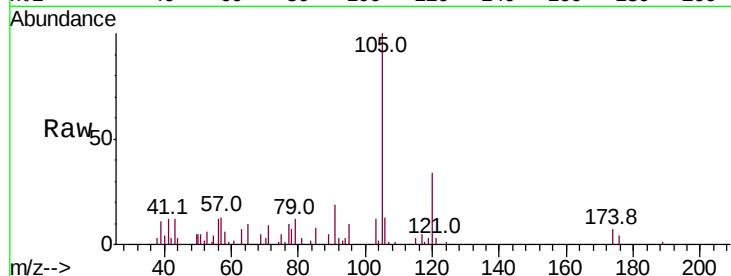
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 14:00

Tot Ion:105 Resp: 21784

Ion	Ratio	Lower	Upper
105	100		
120	36.1	25.1	37.7
91	23.6	9.7	14.5#
77	17.8	10.6	16.0#



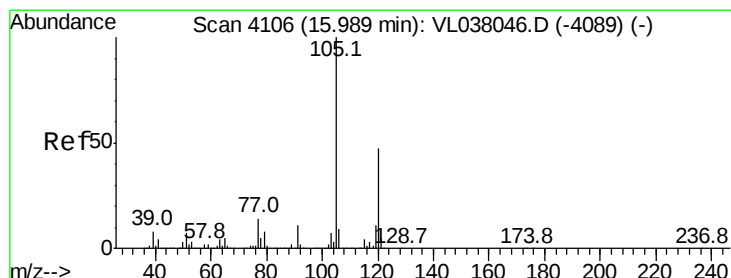
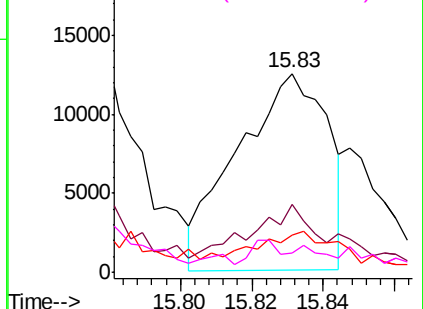
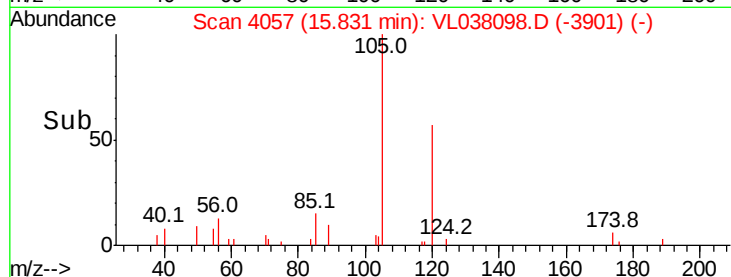
Abundance

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: 0.046 ppbv

RT: 15.99 min Scan# 4105

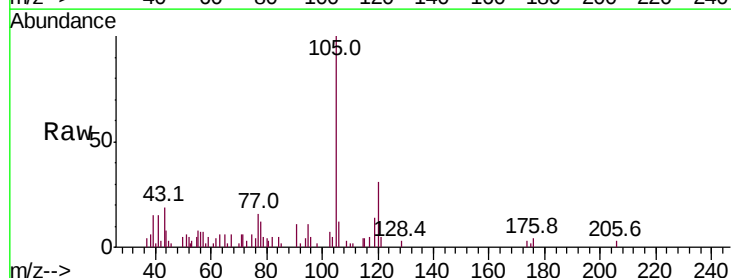
Delta R.T. -0.00 min

Lab File: VL038098.D

Acq: 23 Nov 2021 14:06

Tgt Ion:105 Resp: 13950

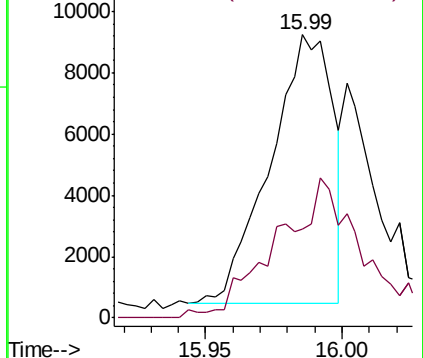
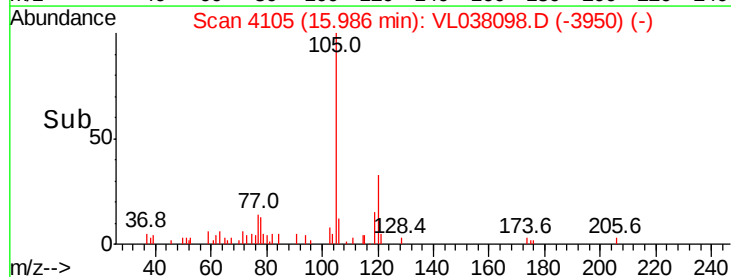
Ion	Ratio	Lower	Upper
105	100		
120	29.9	37.8	56.6#

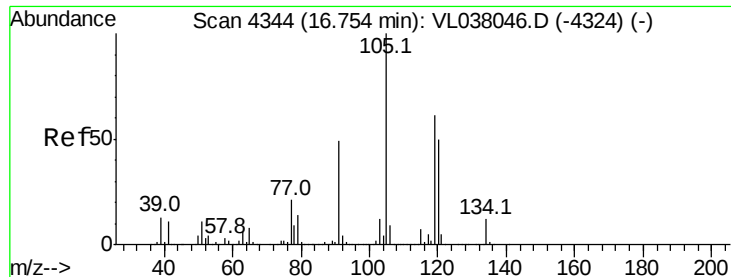


Abundance

Ion 105.10 (104.80 to 105.80): V

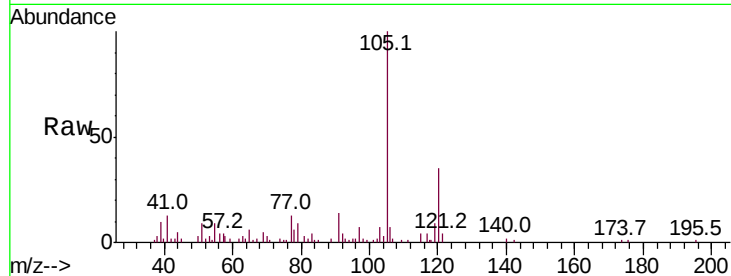
Ion 120.20 (119.90 to 120.90): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.151 ppbv
 RT: 16.76
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Nov 2021 14:00

Tot Ion:	105	Resp:	47376
Ion Ratio	Lower	Upper	
105	100		
120	35.8	40.1	60.1#
91	12.4	39.8	59.8#
77	11.7	16.6	25.0#



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

