

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL030122\
 Data File : VL038468.D
 Acq On : 2 Mar 2022 2:15
 Operator : SY/AP
 Sample : N1723-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FSG3DL

Quant Time: Mar 02 03:10:08 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 22 19:45:51 2022
 QLast Update : Tue Feb 22 19:45:51 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	904797	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	2240780	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.09	117	1940132	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	1540637	9.60	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.00%

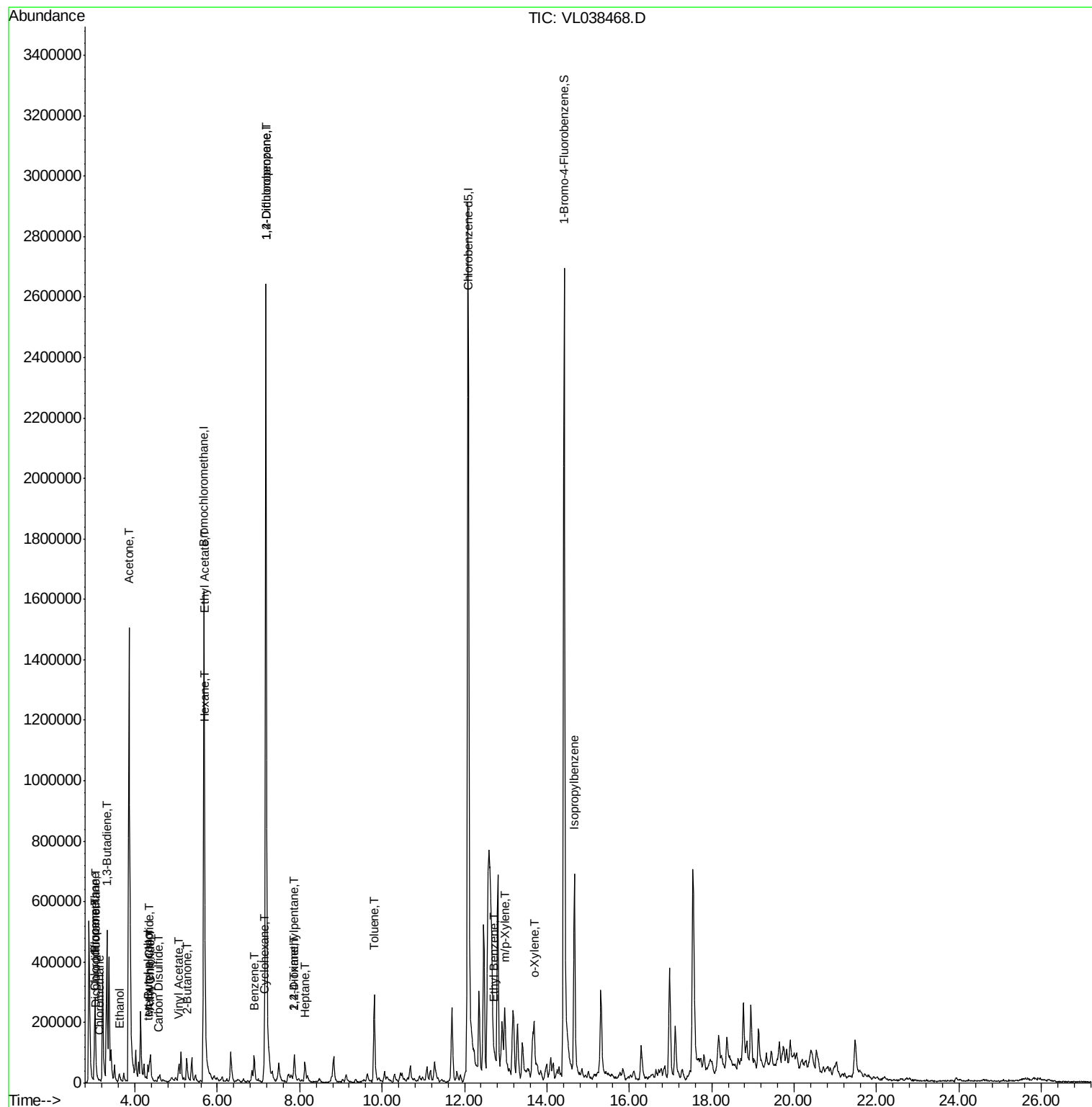
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	5704	0.04	ppbv #	80
3) Chlorodifluoromethane	3.01	51	9703	0.06	ppbv #	78
4) Chloromethane	3.15	50	1802	0.03	ppbv	92
9) Propene	3.03	41	128578	2.44	ppbv	85
10) Heptane	8.12	43	27943	0.22	ppbv	96
13) Ethanol	3.61	45	14244	2.71	ppbv #	31
15) Acetone	3.85	43	2151977	27.97	ppbv	99
16) 1,3-Butadiene	3.32	39	168870	3.29	ppbv #	21
17) tert-Butyl alcohol	4.32	59	16087	0.21	ppbv #	66
20) Methylene Chloride	4.35	84	19514	0.51	ppbv	96
21) Allyl Chloride	4.38	41	11989	0.18	ppbv #	40
23) Vinyl Acetate	5.07	43	3922	0.04	ppbv #	1
25) Ethyl Acetate	5.69	43	41228	0.20	ppbv #	80
26) Hexane	5.70	57	54642	0.58	ppbv #	46
27) Carbon Disulfide	4.56	76	8777	0.08	ppbv #	64
30) Cyclohexane	7.14	84	8787	0.11	ppbv #	1
34) 2-Butanone	5.26	43	109261	1.55	ppbv	92
36) Benzene	6.89	78	73771	0.37	ppbv #	95
39) 1,2-Dichloropropane	7.18	63	580193	7.38	ppbv #	25
40) 1,4-Dioxane	7.86	88	5599	0.30	ppbv #	1
44) 2,2,4-Trimethylpentane	7.88	57	22580	0.07	ppbv #	1
53) Toluene	9.81	91	220368	1.03	ppbv	97
58) Ethyl Benzene	12.72	91	9738	0.04	ppbv	92
59) m/p-Xylene	12.99	91	26407	0.12	ppbv #	33
60) o-Xylene	13.69	91	21220	0.10	ppbv	89
62) Isopropylbenzene	14.67	105	625372	2.16	ppbv	99

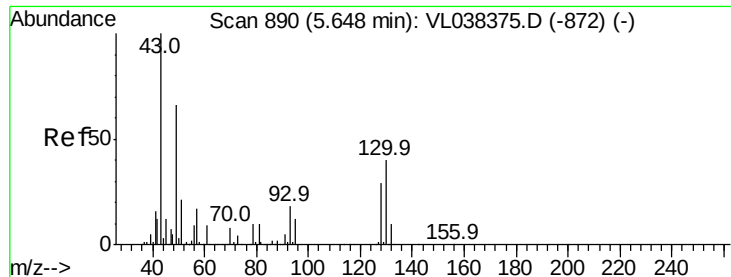
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Feb 22 19:45:51 2022
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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 2 Mar 2022 2:15 FSG3DL

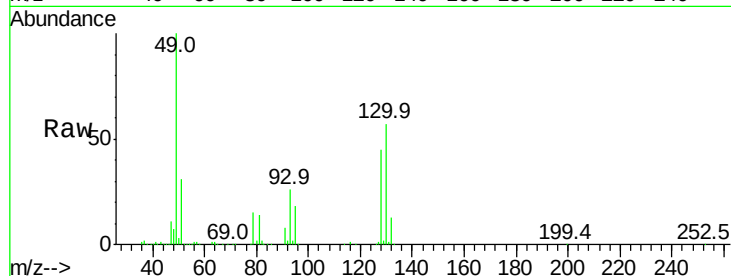
Tgt Ion: 49 Resp: 904797

Ion Ratio Lower Upper

49 100

128 48.4 24.3 72.9

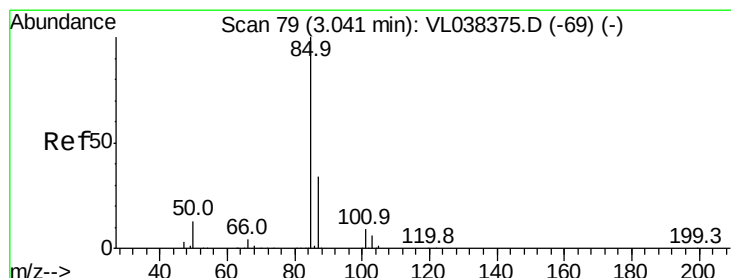
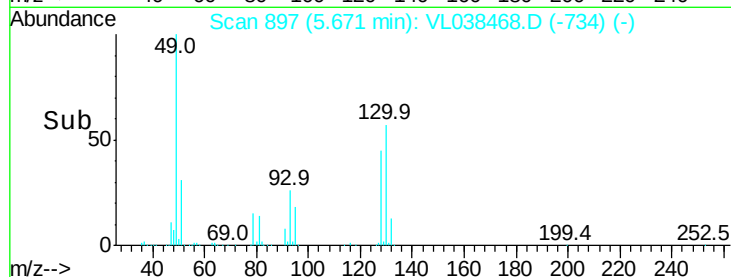
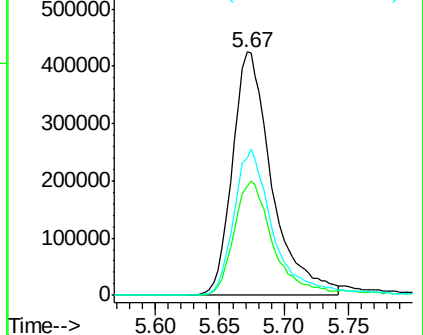
130 62.0 30.1 90.5



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: 0.04 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.02 min

Lab File: VL038468.D

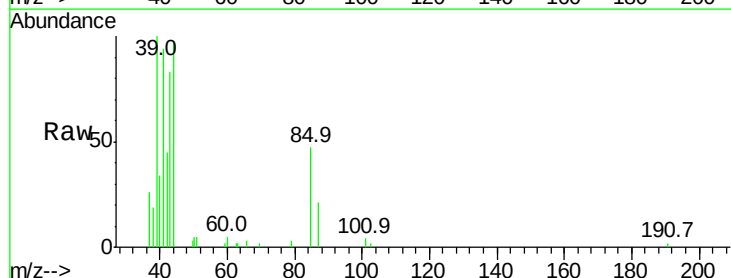
Acq: 2 Mar 2022 2:15

Tgt Ion: 85 Resp: 5704

Ion Ratio Lower Upper

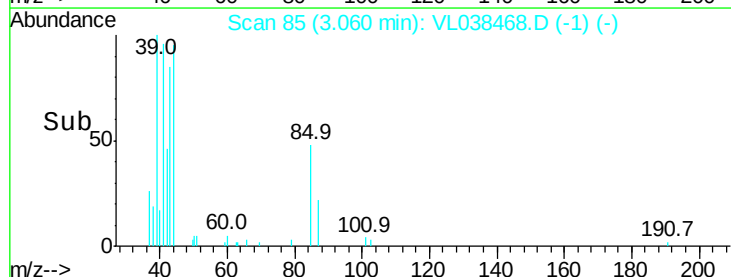
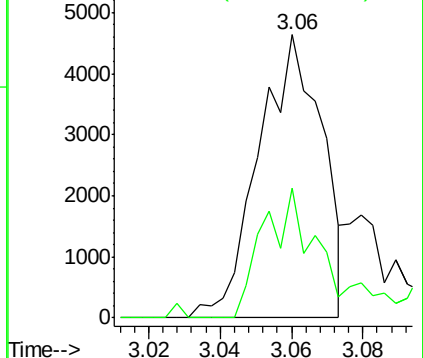
85 100

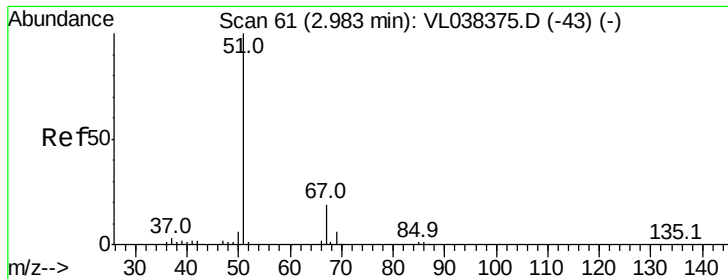
87 45.8 27.4 41.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.06 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

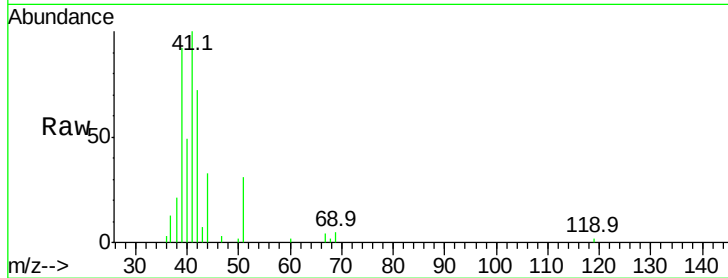
Acq: 2 Mar 2022 2:15 FSG3DL

Tgt Ion: 51 Resp: 9703

Ion Ratio Lower Upper

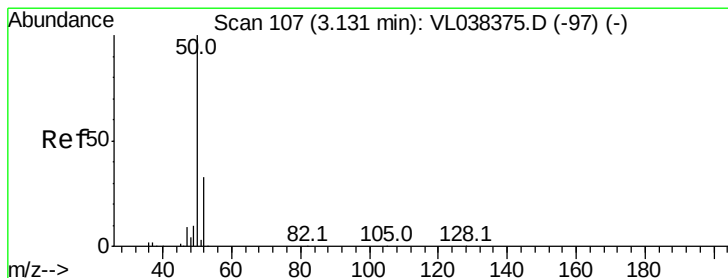
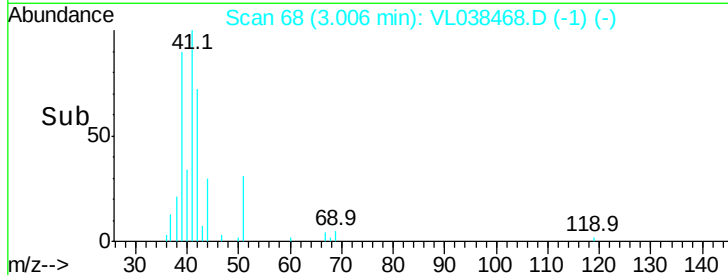
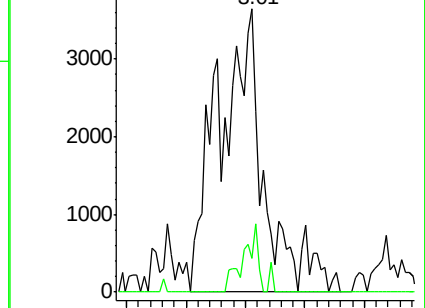
51 100

67 8.4 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.03 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.02 min

Lab File: VL038468.D

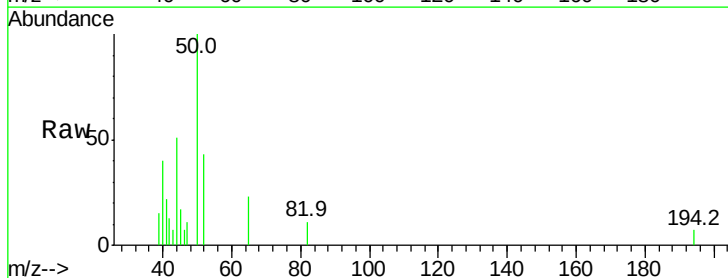
Acq: 2 Mar 2022 2:15

Tgt Ion: 50 Resp: 1802

Ion Ratio Lower Upper

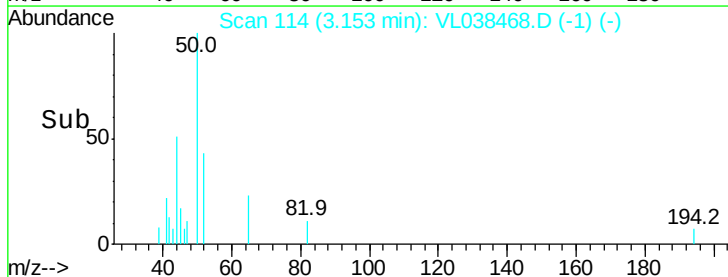
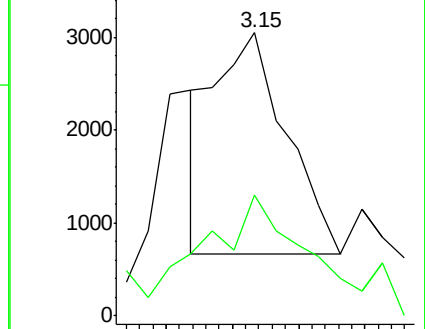
50 100

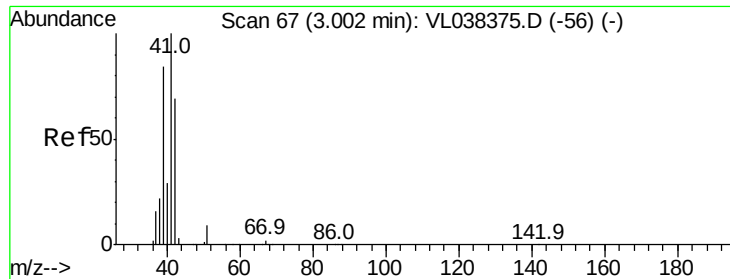
52 37.8 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.44 ppbv

RT: 3.03 Instrument: MSVOA_1

Delta R.T. 0.03

Lab File: ClientSampleId: FSG3DL

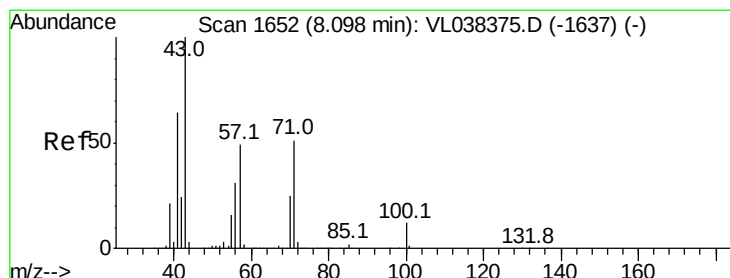
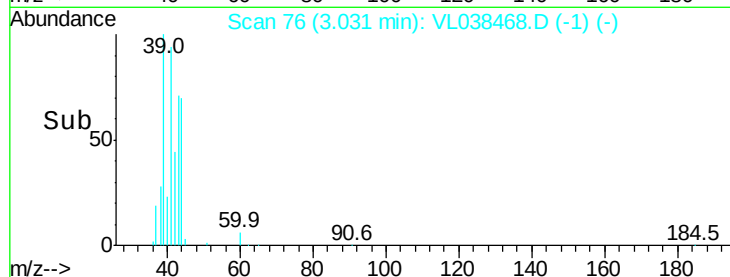
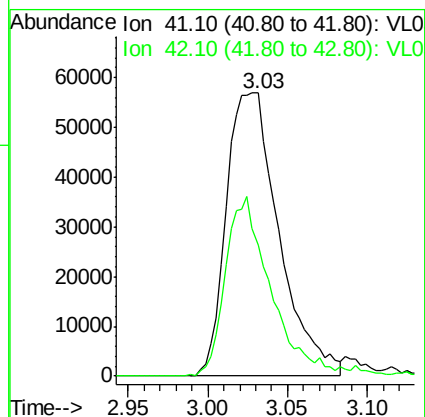
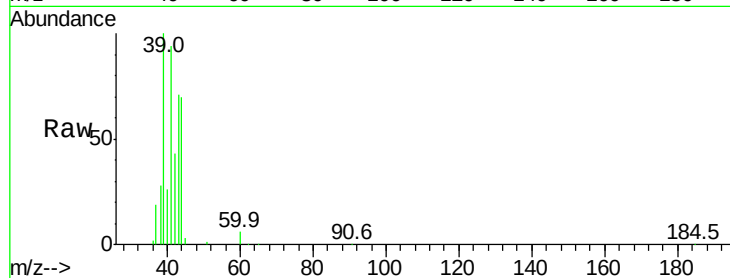
Acq: 2 Mar 2022 2:15

Tgt Ion: 41 Resp: 128578

Ion Ratio Lower Upper

41 100

42 56.3 54.6 82.0



#10

Heptane

Concen: 0.22 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. 0.03 min

Lab File: VL038468.D

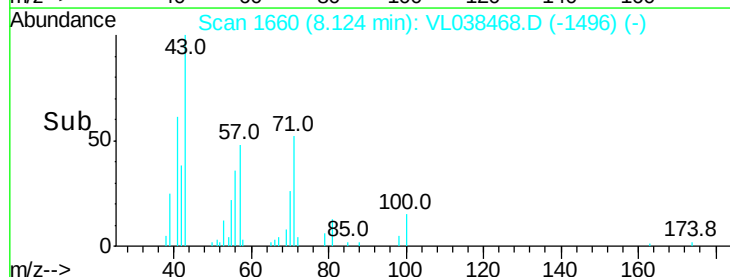
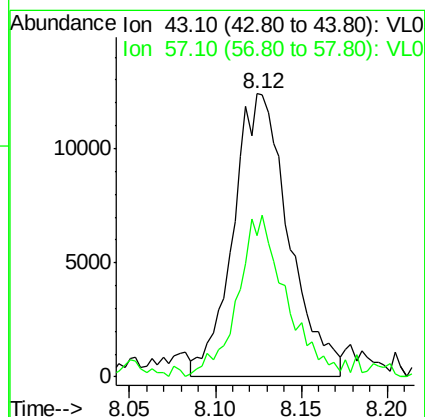
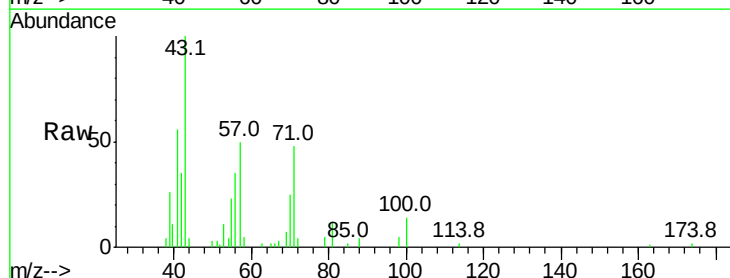
Acq: 2 Mar 2022 2:15

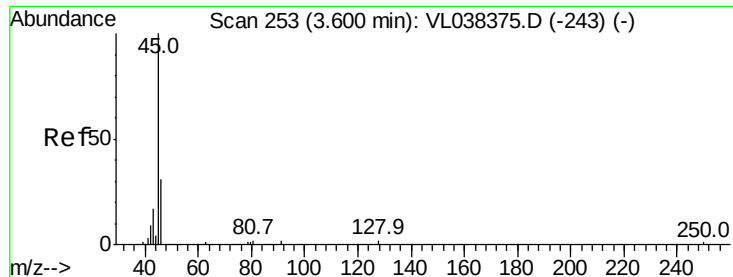
Tgt Ion: 43 Resp: 27943

Ion Ratio Lower Upper

43 100

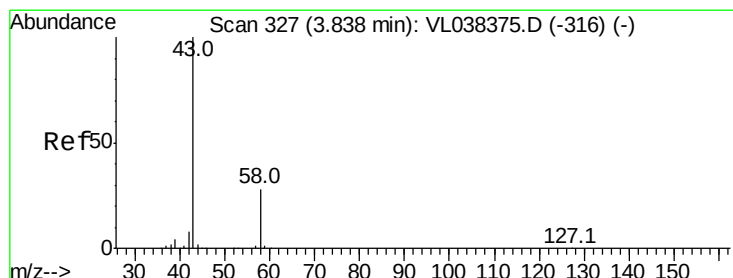
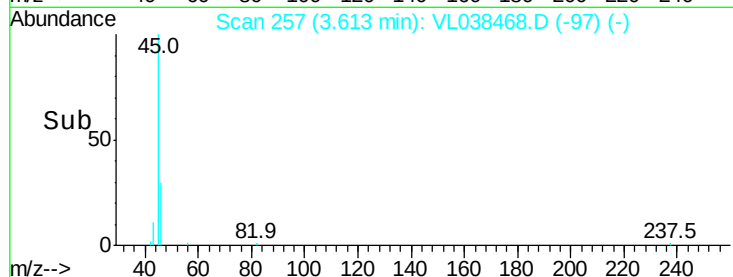
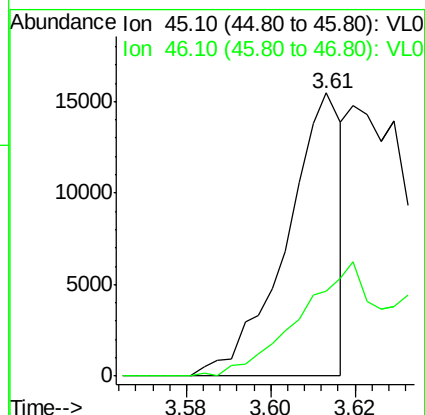
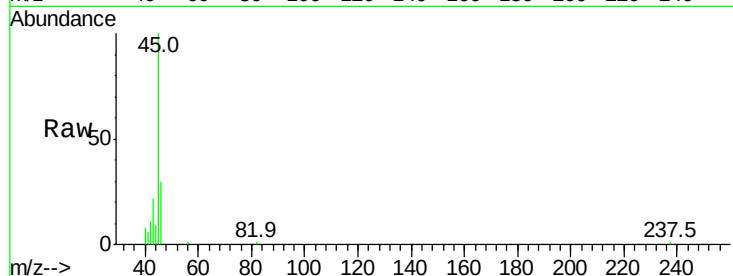
57 52.8 39.8 59.8





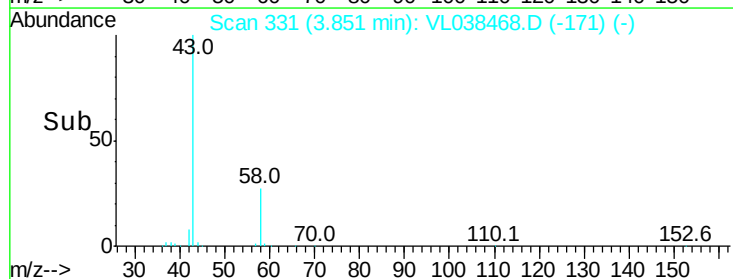
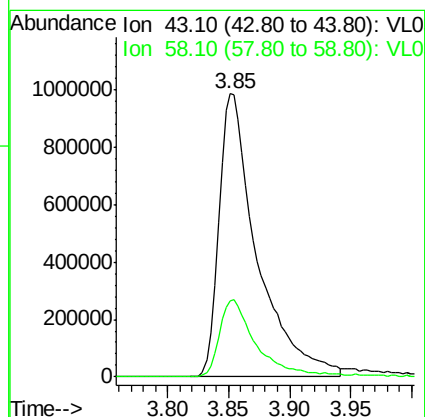
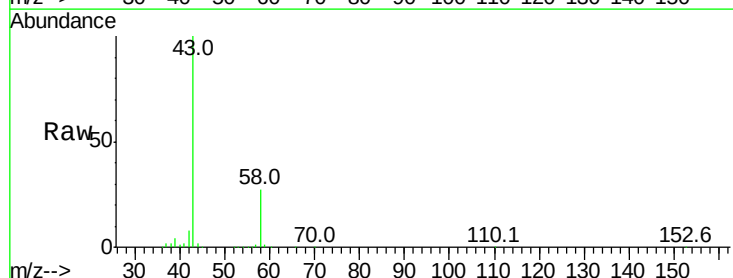
#13
Ethanol
Concen: 2.71 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 2 Mar 2022 2:15

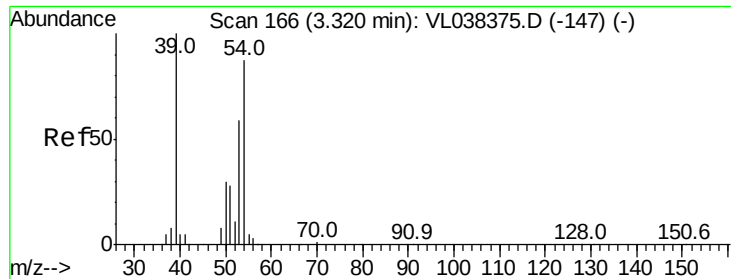
Tgt Ion: 45 Resp: 14244
Ion Ratio Lower Upper
45 100
46 0.0 18.2 72.8#



#15
Acetone
Concen: 27.97 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL038468.D
Acq: 2 Mar 2022 2:15

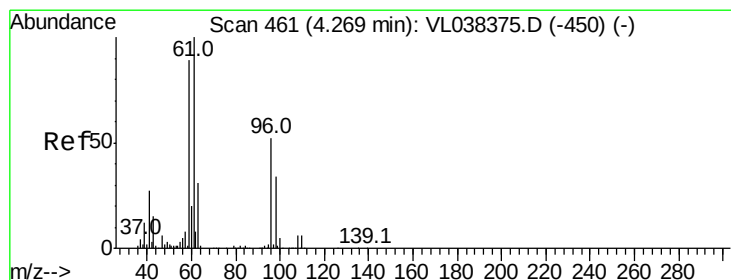
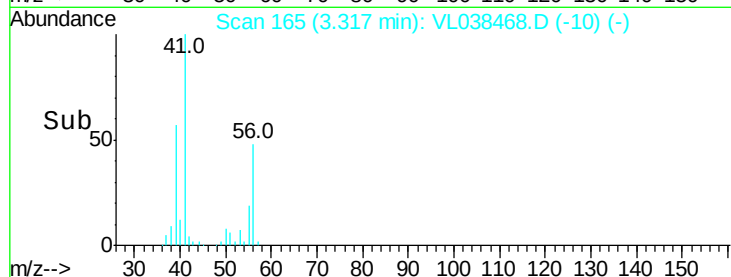
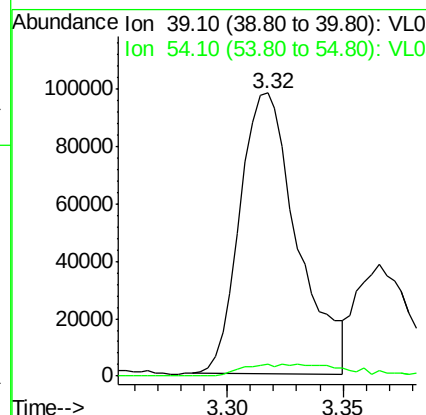
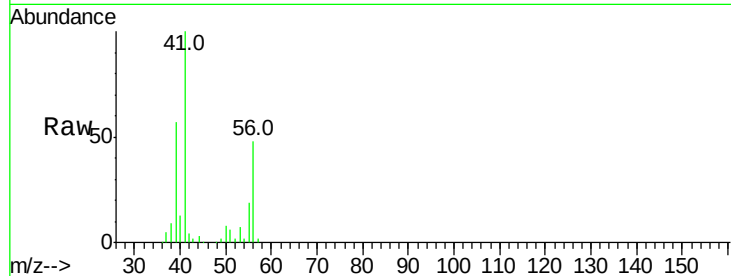
Tgt Ion: 43 Resp: 2151977
Ion Ratio Lower Upper
43 100
58 27.5 21.7 32.5





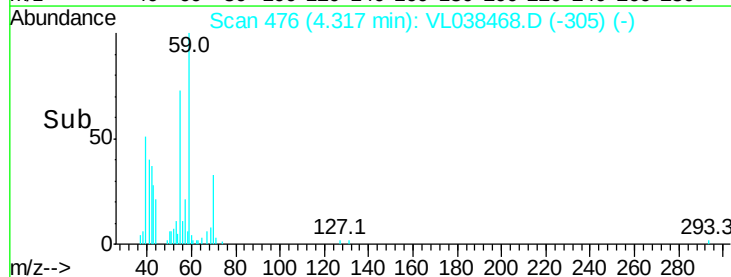
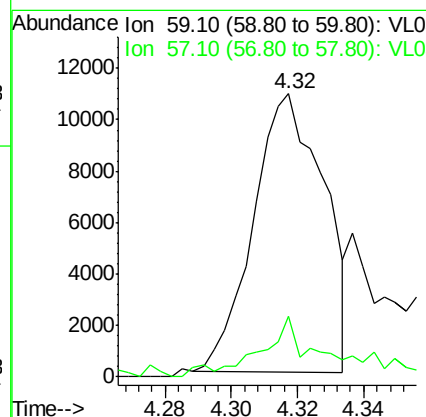
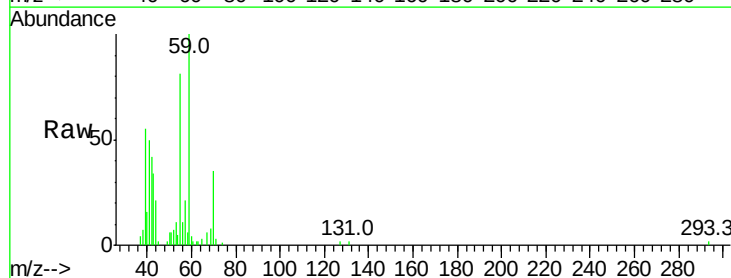
#16
 1,3-Butadiene
 Concen: 3.29 ppbv
 RT: 3.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 FSG3DL
 Acq: 2 Mar 2022 2:15

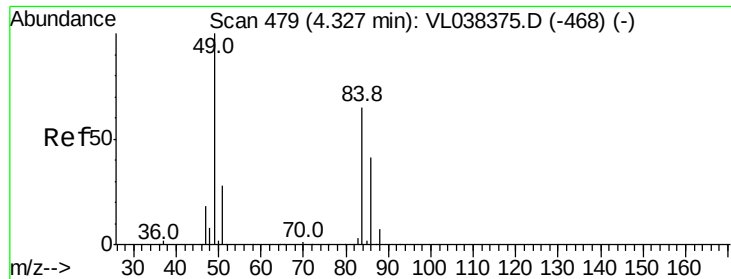
Tgt Ion: 39 Resp: 168870
 Ion Ratio Lower Upper
 39 100
 54 8.0 60.3 90.5#



#17
 tert-Butyl alcohol
 Concen: 0.21 ppbv
 RT: 4.32 min Scan# 476
 Delta R.T. 0.05 min
 Lab File: VL038468.D
 Acq: 2 Mar 2022 2:15

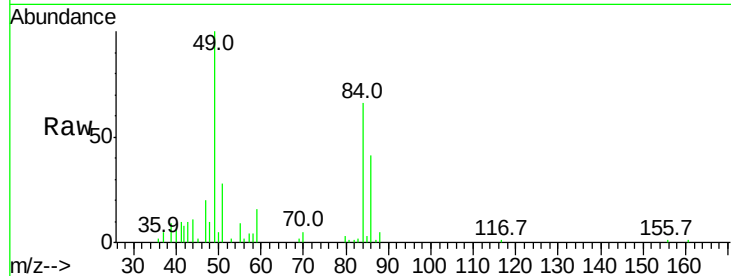
Tgt Ion: 59 Resp: 16087
 Ion Ratio Lower Upper
 59 100
 57 23.4 8.4 12.6#





#20
Methylene Chloride
Concen: 0.51 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Mar 2022 2:15

Tgt Ion:	84	Resp:	19514
Ion	Ratio	Lower	Upper
84	100		
49	148.6	122.4	183.6
51	37.0	33.3	49.9
86	62.2	50.7	76.1

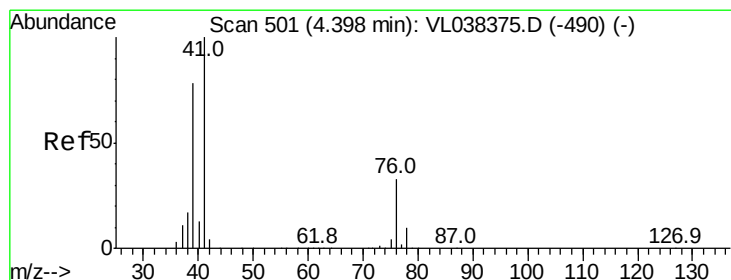
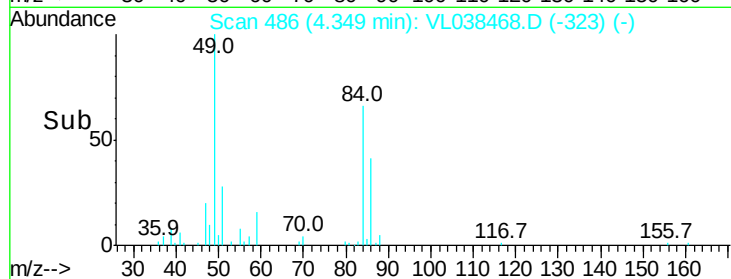
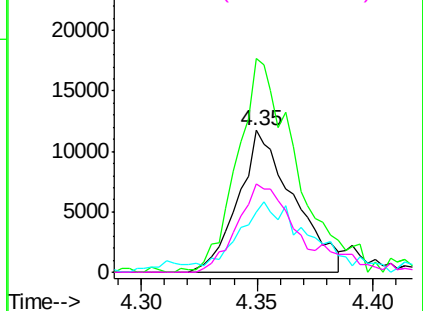


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

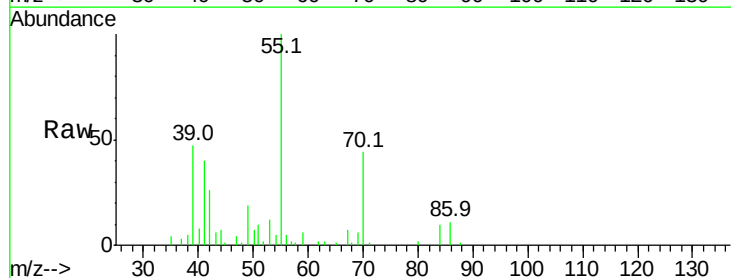
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21
Allyl Chloride
Concen: 0.18 ppbv
RT: 4.38 min Scan# 495
Delta R.T. -0.02 min
Lab File: VL038468.D
Acq: 2 Mar 2022 2:15

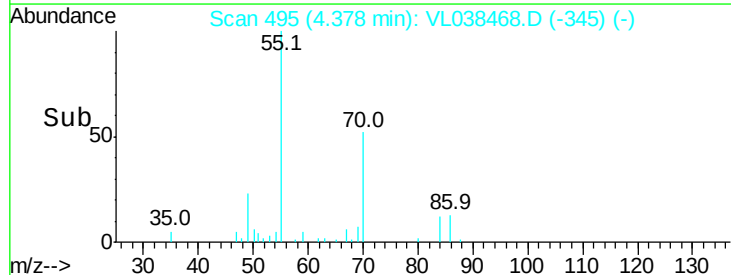
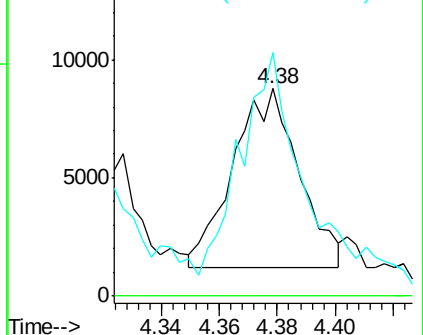
Tgt Ion:	41	Resp:	11989
Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.4	38.0#
39	132.7	63.0	94.6#

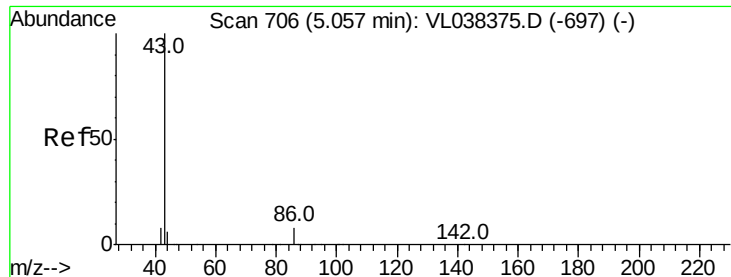


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

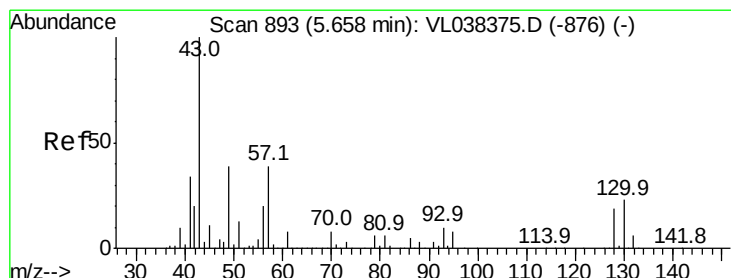
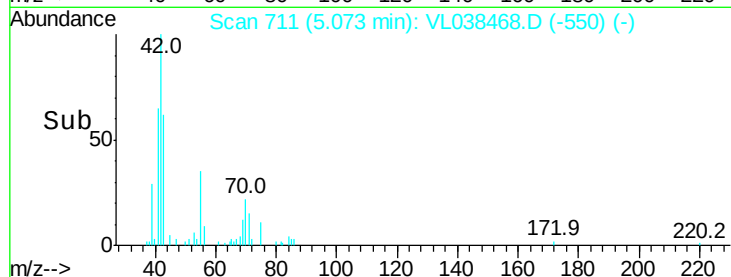
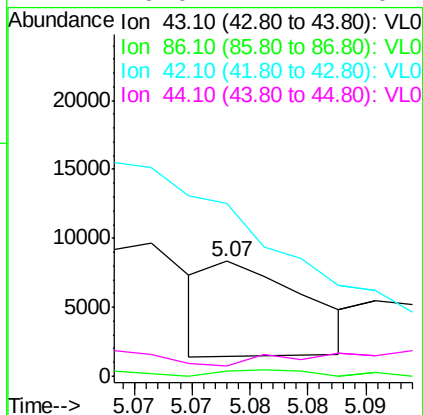
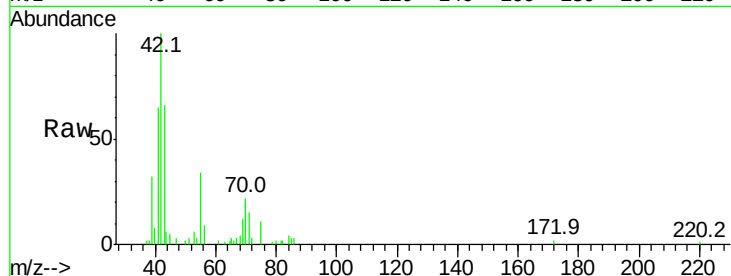
Ion 39.10 (38.80 to 39.80): VL0





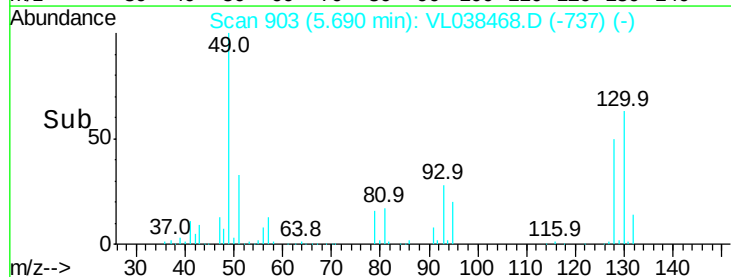
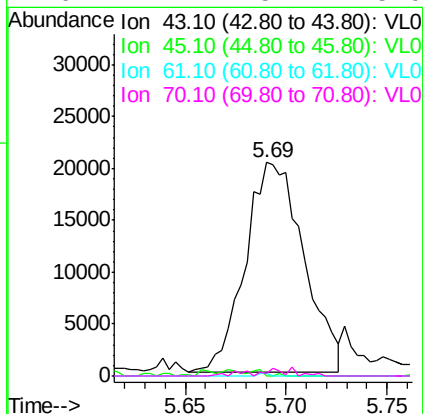
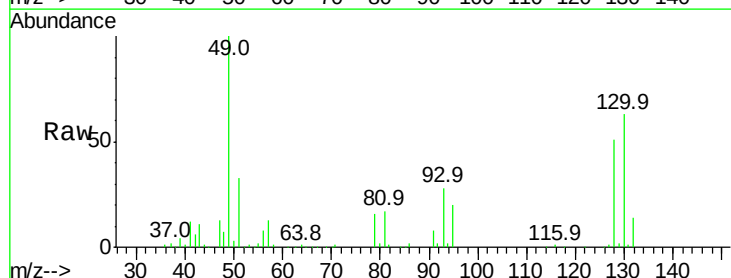
#23
 Vinyl Acetate
 Concen: 0.04 ppbv
 RT: 5.07
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 FSG3DL
 Acq: 2 Mar 2022 2:15

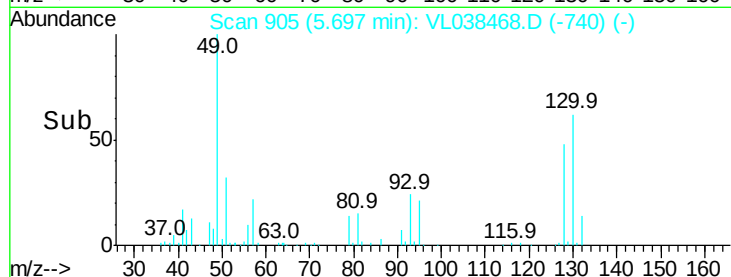
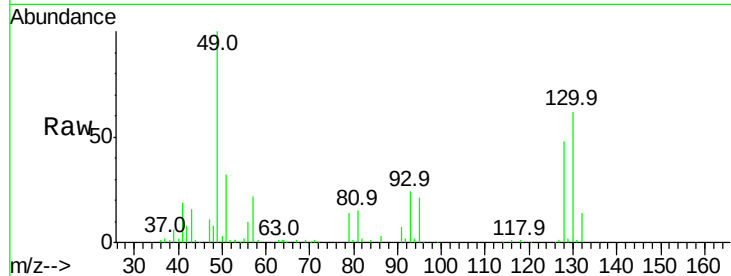
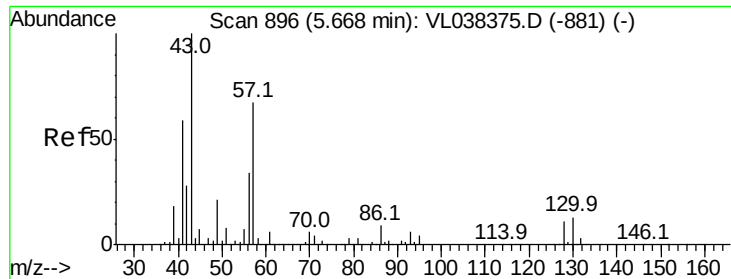
Tgt Ion:	43	Resp:	3922
Ion	Ratio	Lower	Upper
43	100		
86	9.2	5.8	8.6#
42	141.5	7.4	11.0#
44	0.0	4.2	6.2#



#25
 Ethyl Acetate
 Concen: 0.20 ppbv
 RT: 5.69 min Scan# 903
 Delta R.T. 0.03 min
 Lab File: VL038468.D
 Acq: 2 Mar 2022 2:15

Tgt Ion:	43	Resp:	41228
Ion	Ratio	Lower	Upper
43	100		
45	2.4	7.8	11.6#
61	0.2	7.5	11.3#
70	2.4	5.4	8.0#





#26

Hexane

Concen: 0.58 ppbv

RT: 5.70 Instrument:

Delta R.T. MSVOA_L

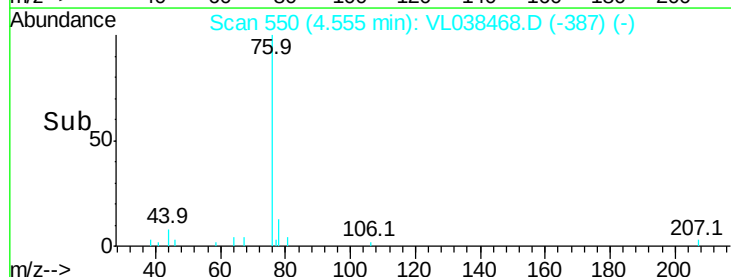
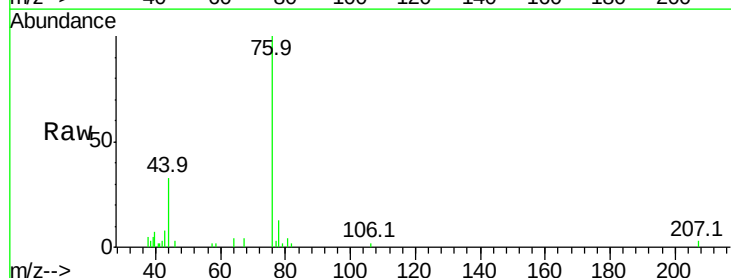
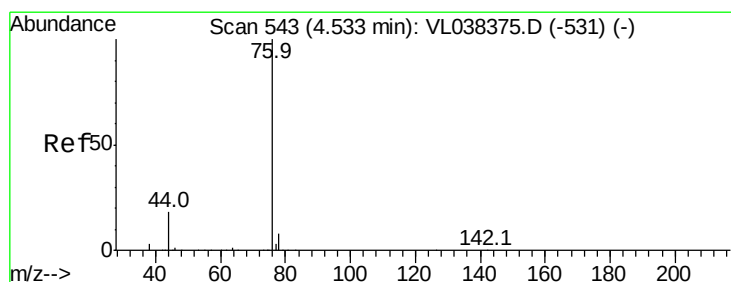
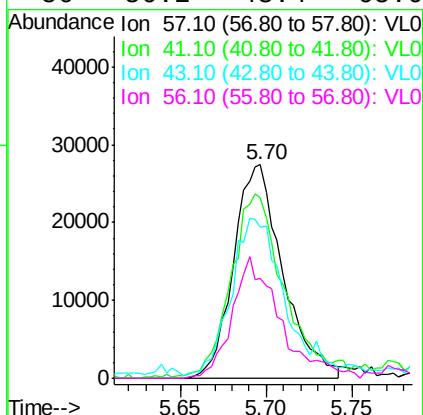
Lab File: ClientSampleId:

Acq: 2 Mar 2022 2:15 FSG3DL

Tgt Ion: 57 Resp: 54642

Ion Ratio Lower Upper

57	100		
41	94.7	73.1	109.7
43	84.4	181.0	271.4#
56	56.2	43.4	65.0



#27

Carbon Disulfide

Concen: 0.08 ppbv

RT: 4.56 min Scan# 550

Delta R.T. 0.02 min

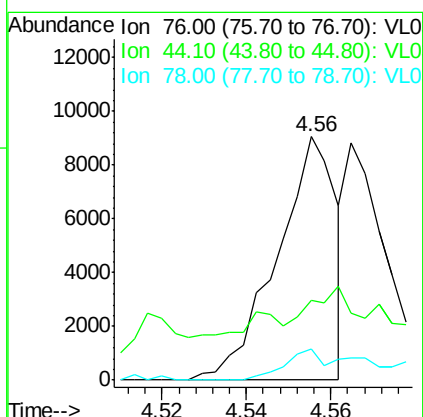
Lab File: VL038468.D

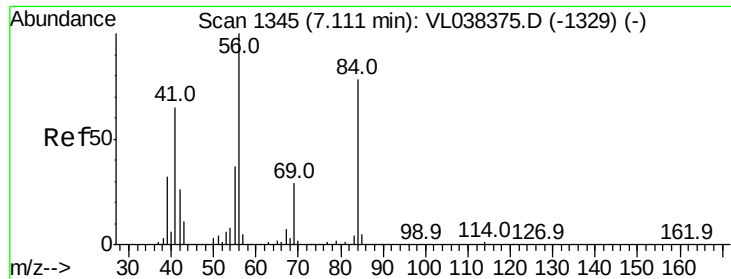
Acq: 2 Mar 2022 2:15

Tgt Ion: 76 Resp: 8777

Ion Ratio Lower Upper

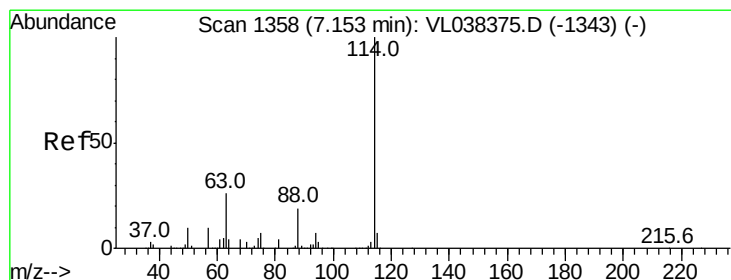
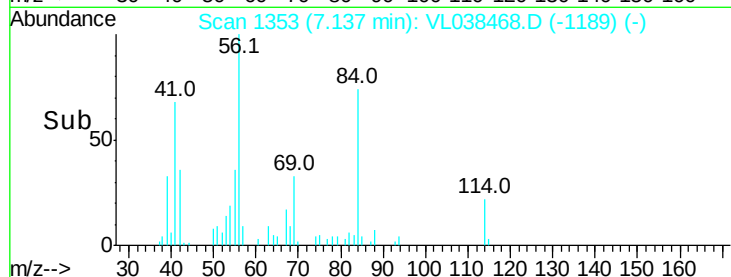
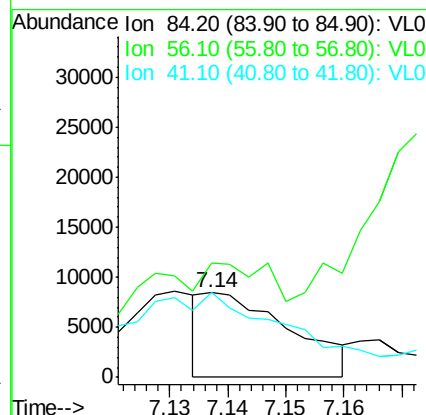
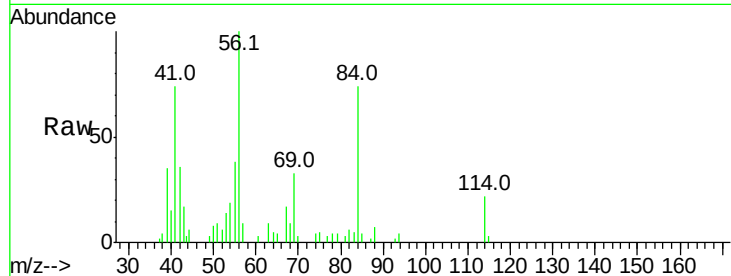
76	100		
44	0.0	14.2	21.2#
78	19.6	7.8	11.6#





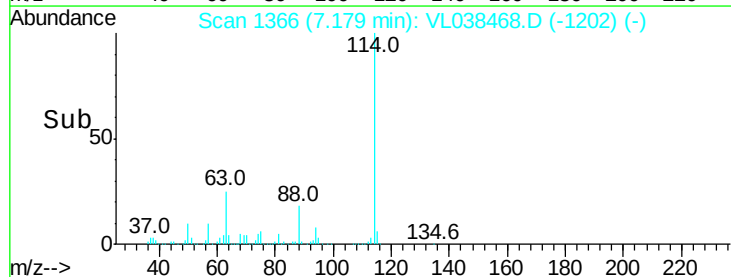
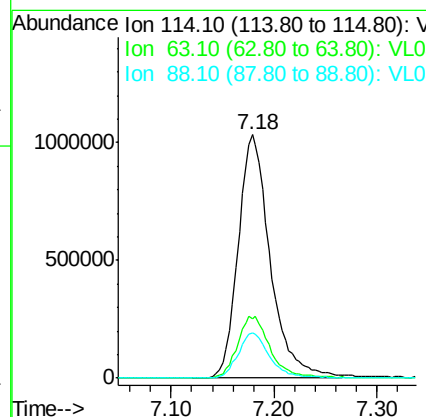
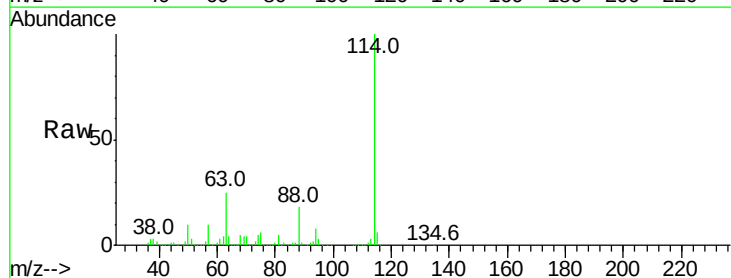
#30
Cyclohexane
Concen: 0.11 ppbv
RT: 7.14
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Mar 2022 2:15

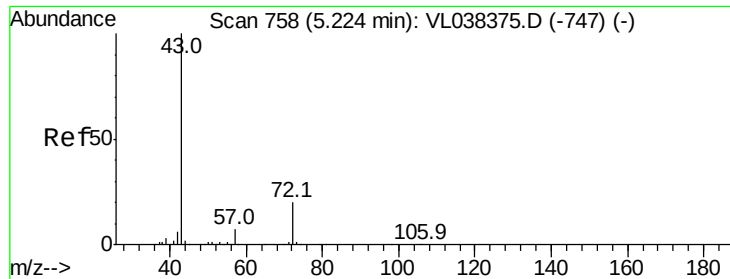
Tgt Ion: 84 Resp: 8787
Ion Ratio Lower Upper
84 100
56 0.0 116.2 174.4#
41 230.5 74.3 111.5#



#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. 0.03 min
Lab File: VL038468.D
Acq: 2 Mar 2022 2:15

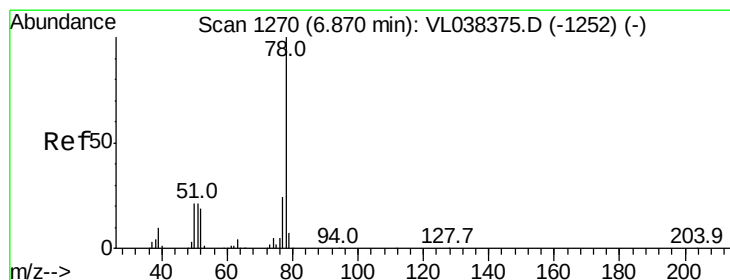
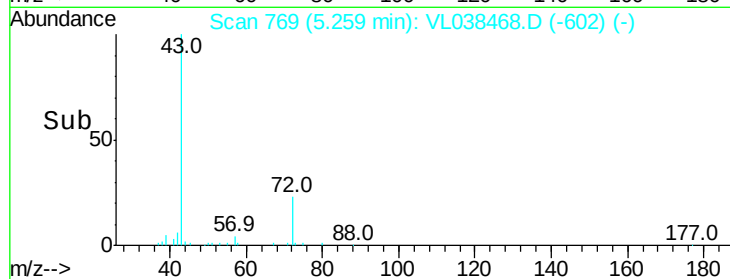
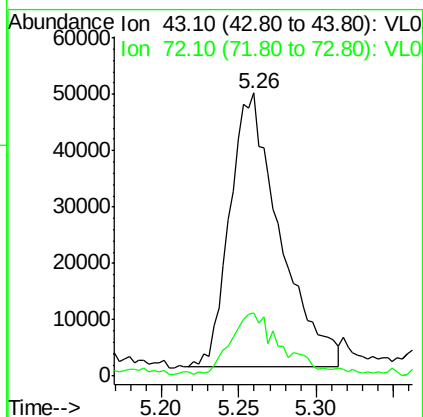
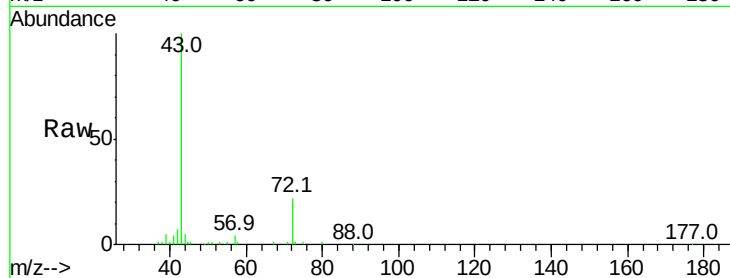
Tgt Ion: 114 Resp: 2240780
Ion Ratio Lower Upper
114 100
63 26.5 22.2 33.2
88 18.6 15.2 22.8





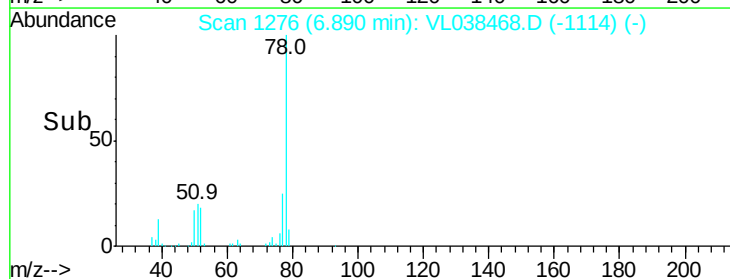
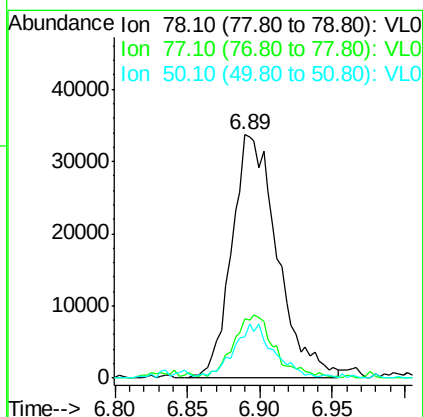
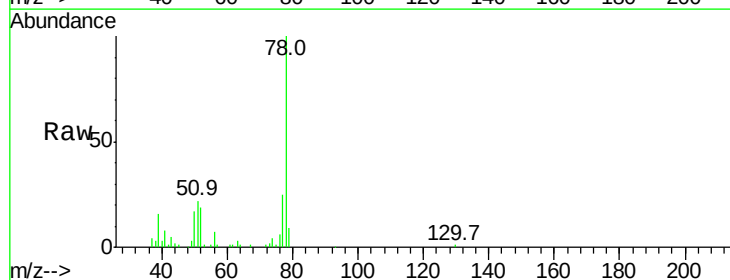
#34
 2-Butanone
 Concen: 1.55 ppbv
 RT: 5.26
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 FSG3DL
 Acq: 2 Mar 2022 2:15

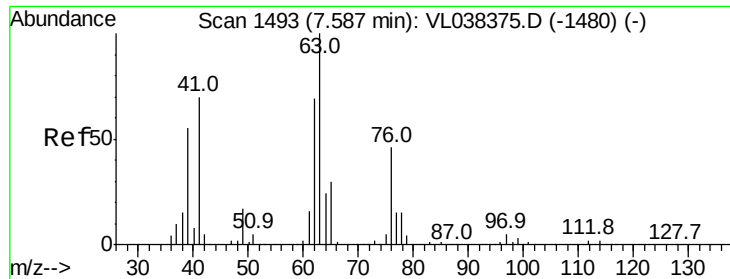
Tgt Ion: 43 Resp: 109261
 Ion Ratio Lower Upper
 43 100
 72 25.4 17.4 26.2



#36
 Benzene
 Concen: 0.37 ppbv
 RT: 6.89 min Scan# 1276
 Delta R.T. 0.02 min
 Lab File: VL038468.D
 Acq: 2 Mar 2022 2:15

Tgt Ion: 78 Resp: 73771
 Ion Ratio Lower Upper
 78 100
 77 23.6 19.0 28.6
 50 15.9 16.6 24.8#





#39

1,2-Dichloropropane

Concen: 7.38 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 2 Mar 2022 2:15 FSG3DL

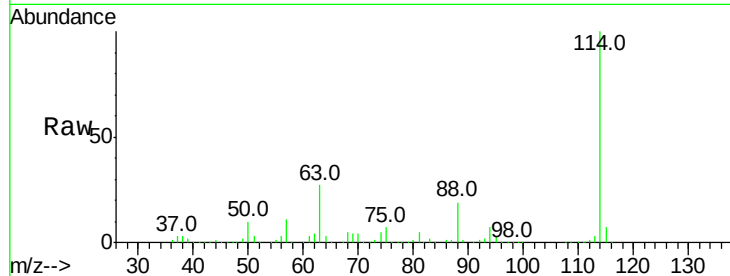
Tgt Ion: 63 Resp: 580193

Ion Ratio Lower Upper

63 100

41 0.0 56.1 84.1#

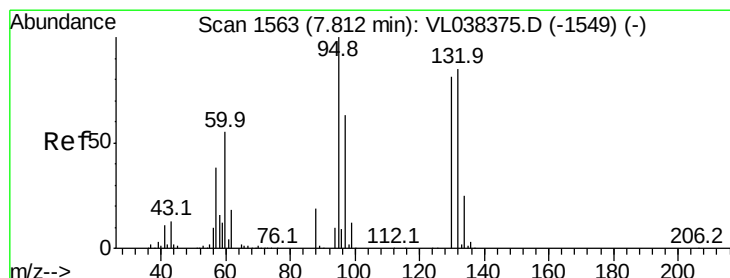
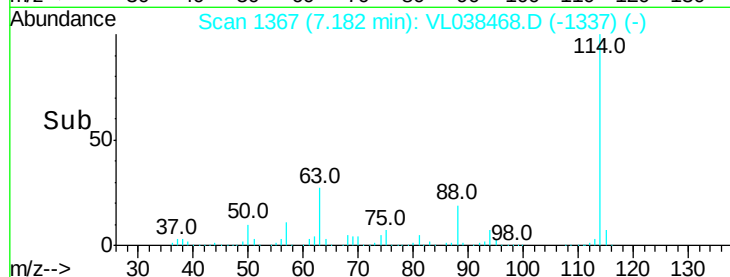
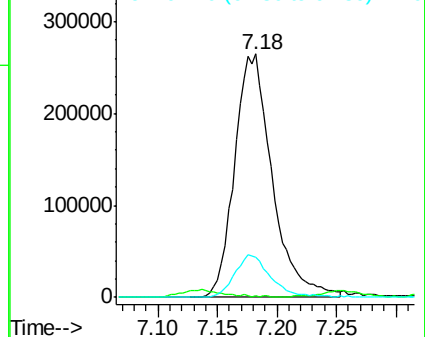
62 16.2 55.5 83.3#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 0.30 ppbv

RT: 7.86 min Scan# 1579

Delta R.T. 0.05 min

Lab File: VL038468.D

Acq: 2 Mar 2022 2:15

Tgt Ion: 88 Resp: 5599

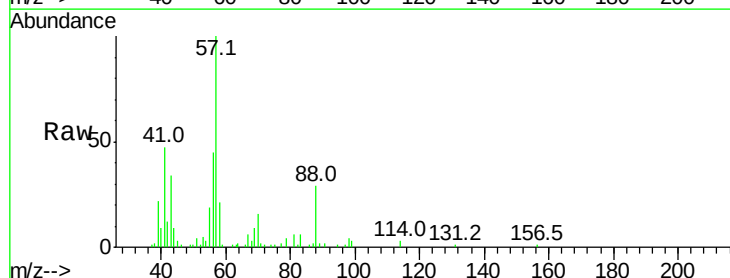
Ion Ratio Lower Upper

88 100

58 274.9 133.2 199.8#

43 299.2 330.6 496.0#

57 0.0 1462.7 2194.1#

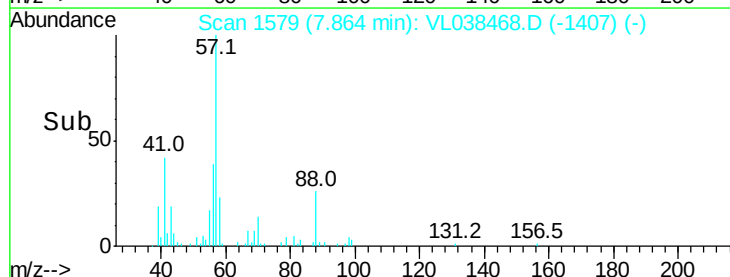
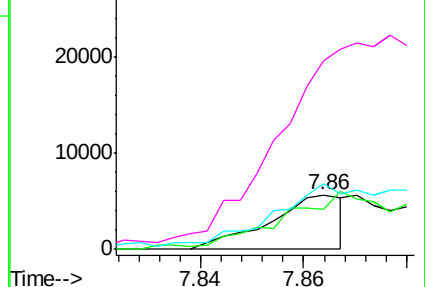


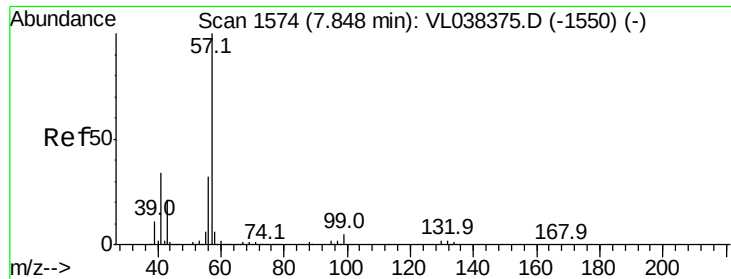
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

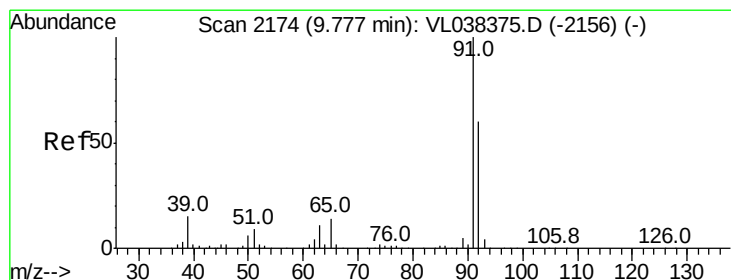
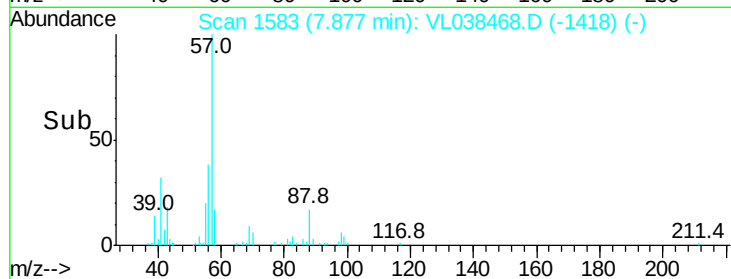
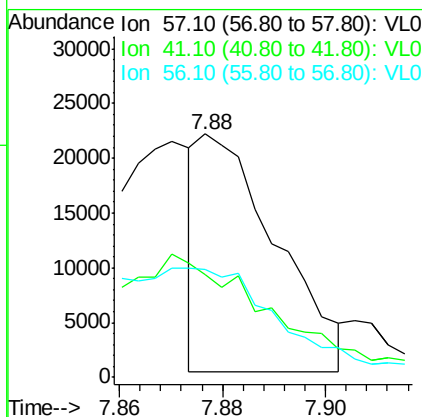
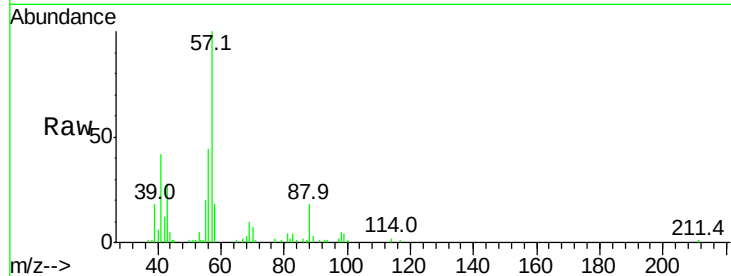
Ion 57.10 (56.80 to 57.80): VL0





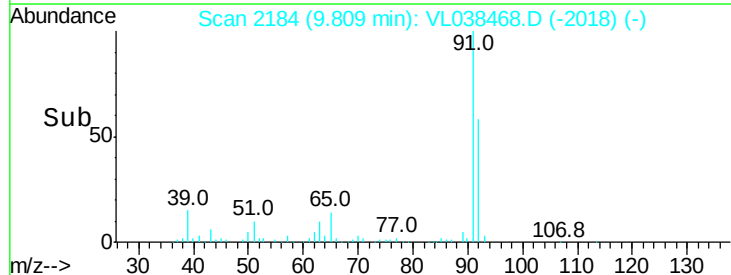
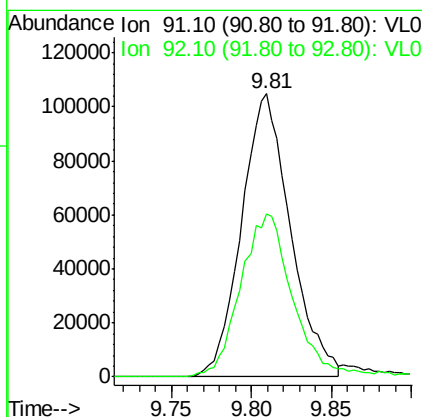
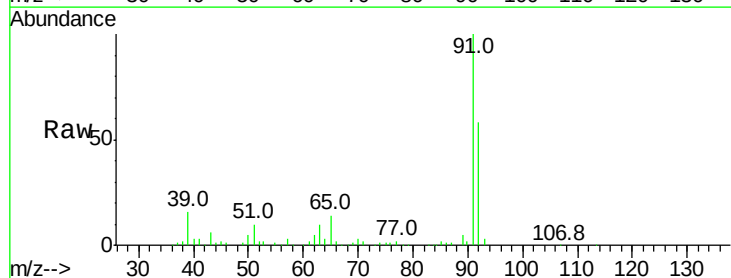
#44
 2,2,4-Trimethylpentane
 Concen: 0.07 ppbv
 RT: 7.88
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 2 Mar 2022 2:15

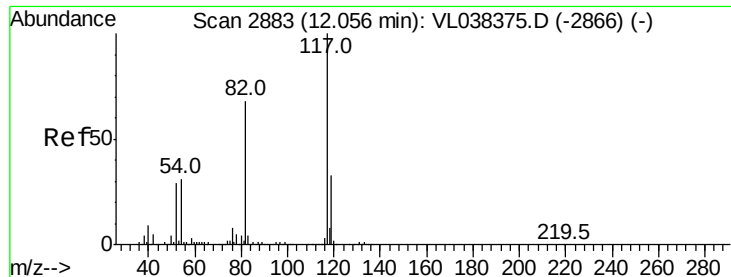
Tgt Ion: 57 Resp: 22580
 Ion Ratio Lower Upper
 57 100
 41 0.0 26.6 39.8#
 56 120.1 25.0 37.6#



#53
 Toluene
 Concen: 1.03 ppbv
 RT: 9.81 min Scan# 2184
 Delta R.T. 0.03 min
 Lab File: VL038468.D
 Acq: 2 Mar 2022 2:15

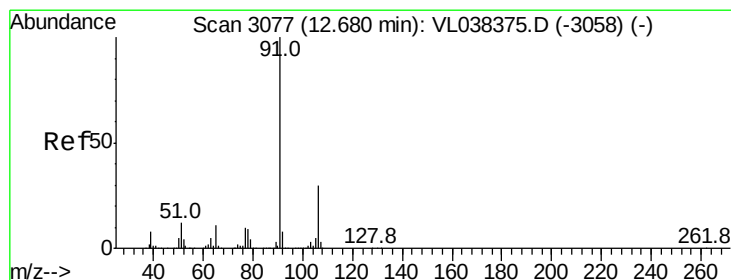
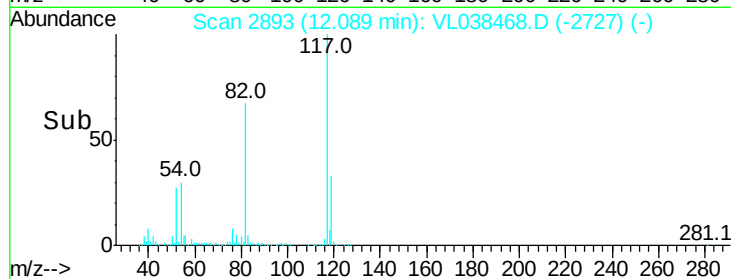
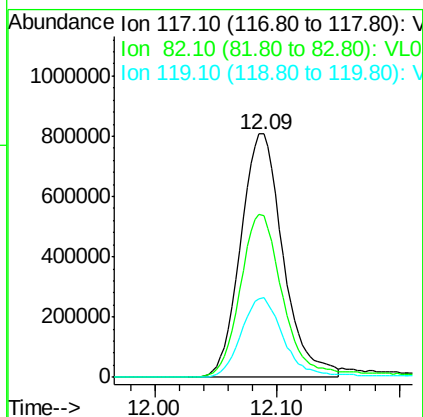
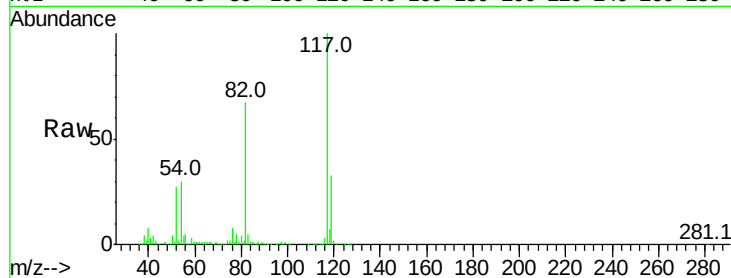
Tgt Ion: 91 Resp: 220368
 Ion Ratio Lower Upper
 91 100
 92 62.4 48.2 72.4





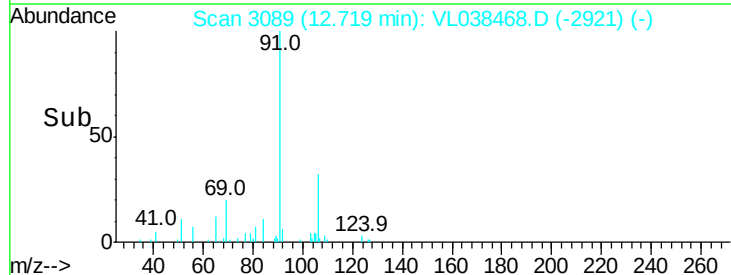
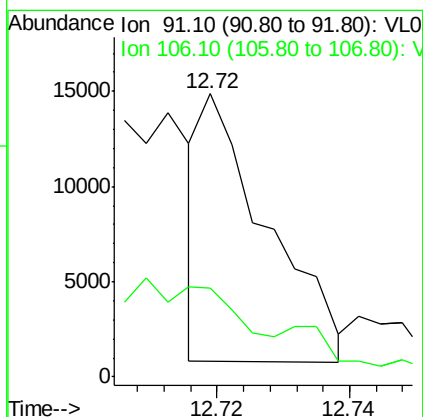
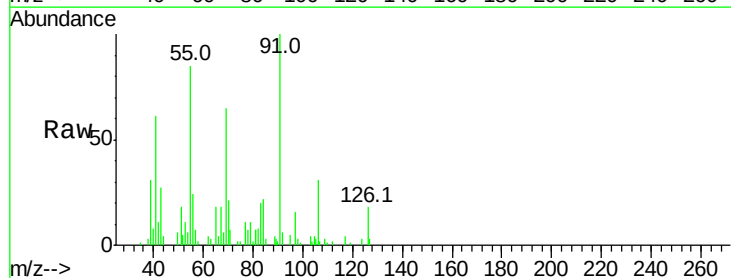
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 2 Mar 2022 2:15

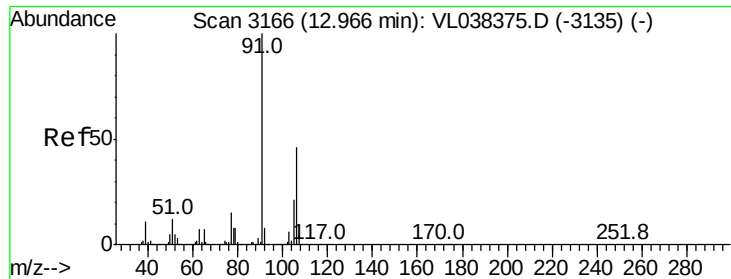
Tgt Ion: 117 Resp: 1940132
Ion Ratio Lower Upper
117 100
82 71.3 54.9 82.3
119 34.0 46.1 69.1#



#58
Ethyl Benzene
Concen: 0.04 ppbv
RT: 12.72 min Scan# 3089
Delta R.T. 0.04 min
Lab File: VL038468.D
Acq: 2 Mar 2022 2:15

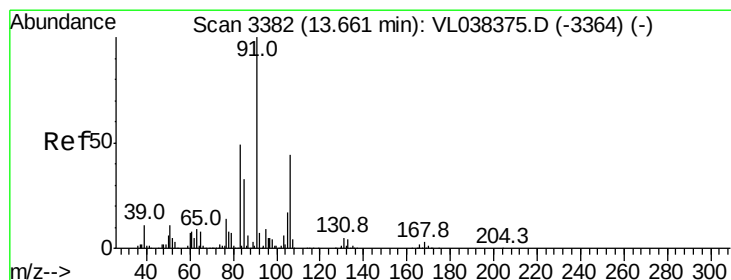
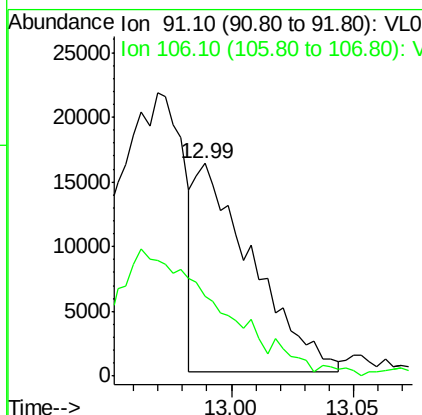
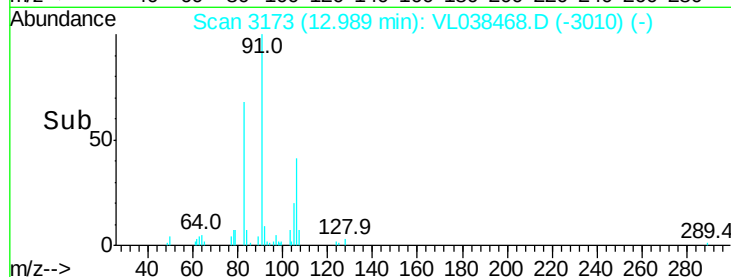
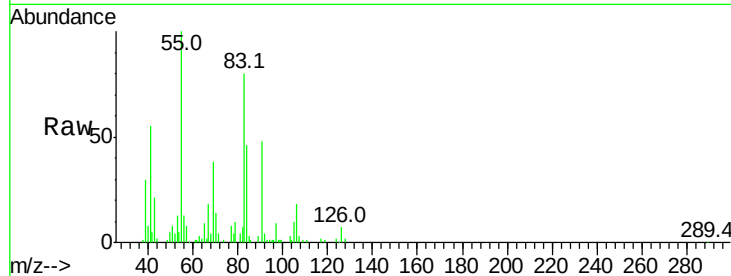
Tgt Ion: 91 Resp: 9738
Ion Ratio Lower Upper
91 100
106 25.9 24.0 36.0





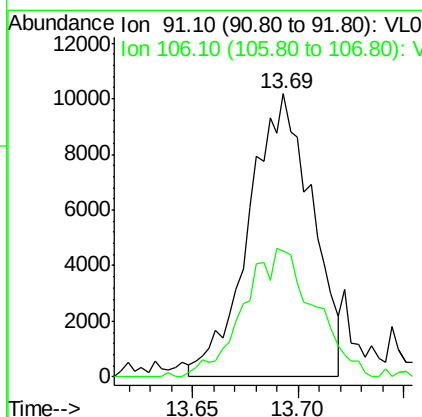
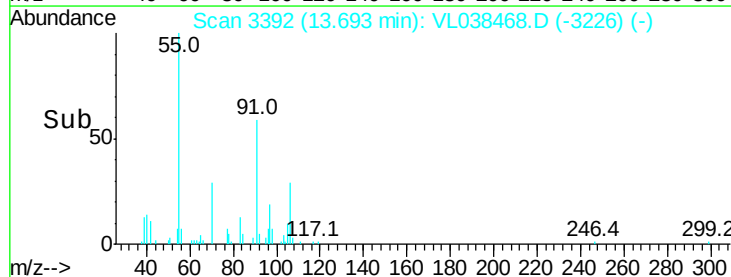
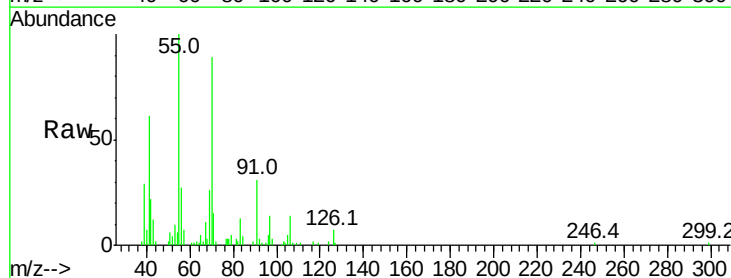
#59
m/p-Xylene
Concen: 0.12 ppbv
RT: 12.99 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Mar 2022 2:15

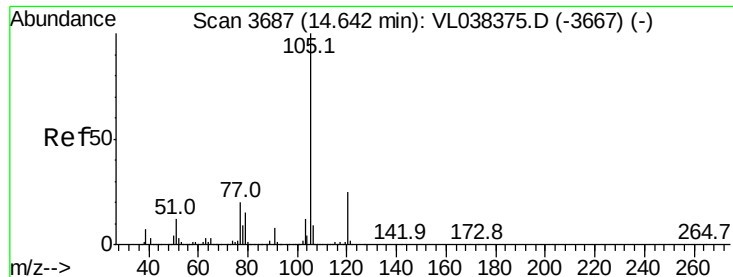
Tgt Ion: 91 Resp: 26407
Ion Ratio Lower Upper
91 100
106 0.0 34.4 51.6#



#60
o-Xylene
Concen: 0.10 ppbv
RT: 13.69 min Scan# 3392
Delta R.T. 0.03 min
Lab File: VL038468.D
Acq: 2 Mar 2022 2:15

Tgt Ion: 91 Resp: 21220
Ion Ratio Lower Upper
91 100
106 50.9 21.9 65.5





#62

Isopropylbenzene

Concen: 2.16 ppbv

RT: 14.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

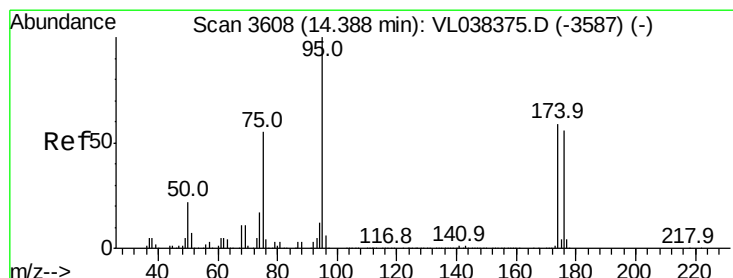
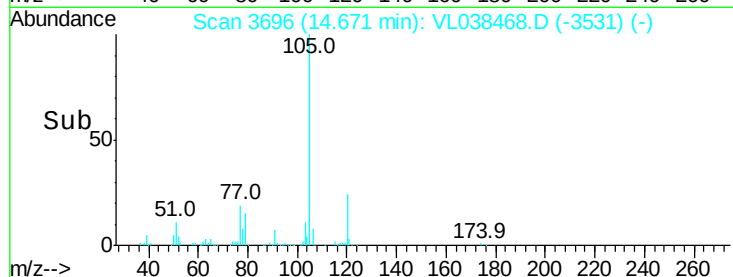
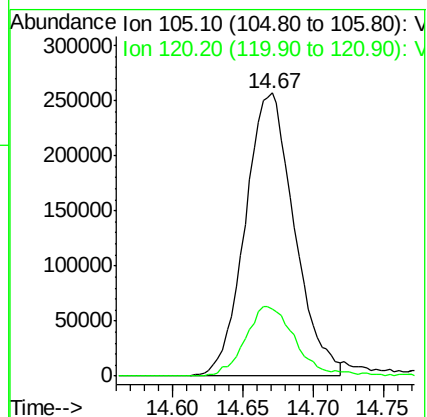
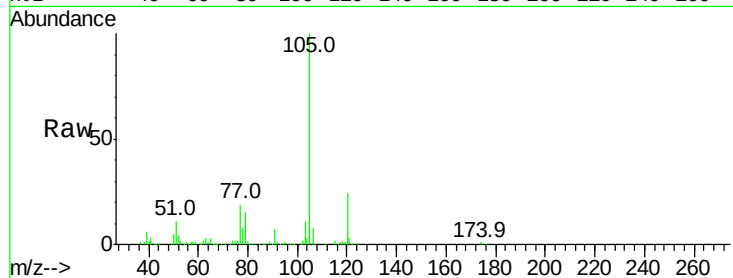
Acq: 2 Mar 2022 2:15

Tgt Ion: 105 Resp: 625372

Ion Ratio Lower Upper

105 100

120 25.2 20.6 30.8



#68

1-Bromo-4-Fluorobenzene

Concen: 9.60 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. 0.03 min

Lab File: VL038468.D

Acq: 2 Mar 2022 2:15

Tgt Ion: 95 Resp: 1540637

Ion Ratio Lower Upper

95 100

174 63.2 49.0 73.4

175 4.5 3.6 5.4

