

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL030222\
 Data File : VL038485.D
 Acq On : 2 Mar 2022 17:12
 Operator : SY/AP
 Sample : N1724-01DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-02DL

Quant Time: Mar 02 22:38:06 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	973853	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	2269017	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.08	117	2014614	10.00	ppbv	0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.42	95	691804	4.15	ppbv	0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	41.50%#	

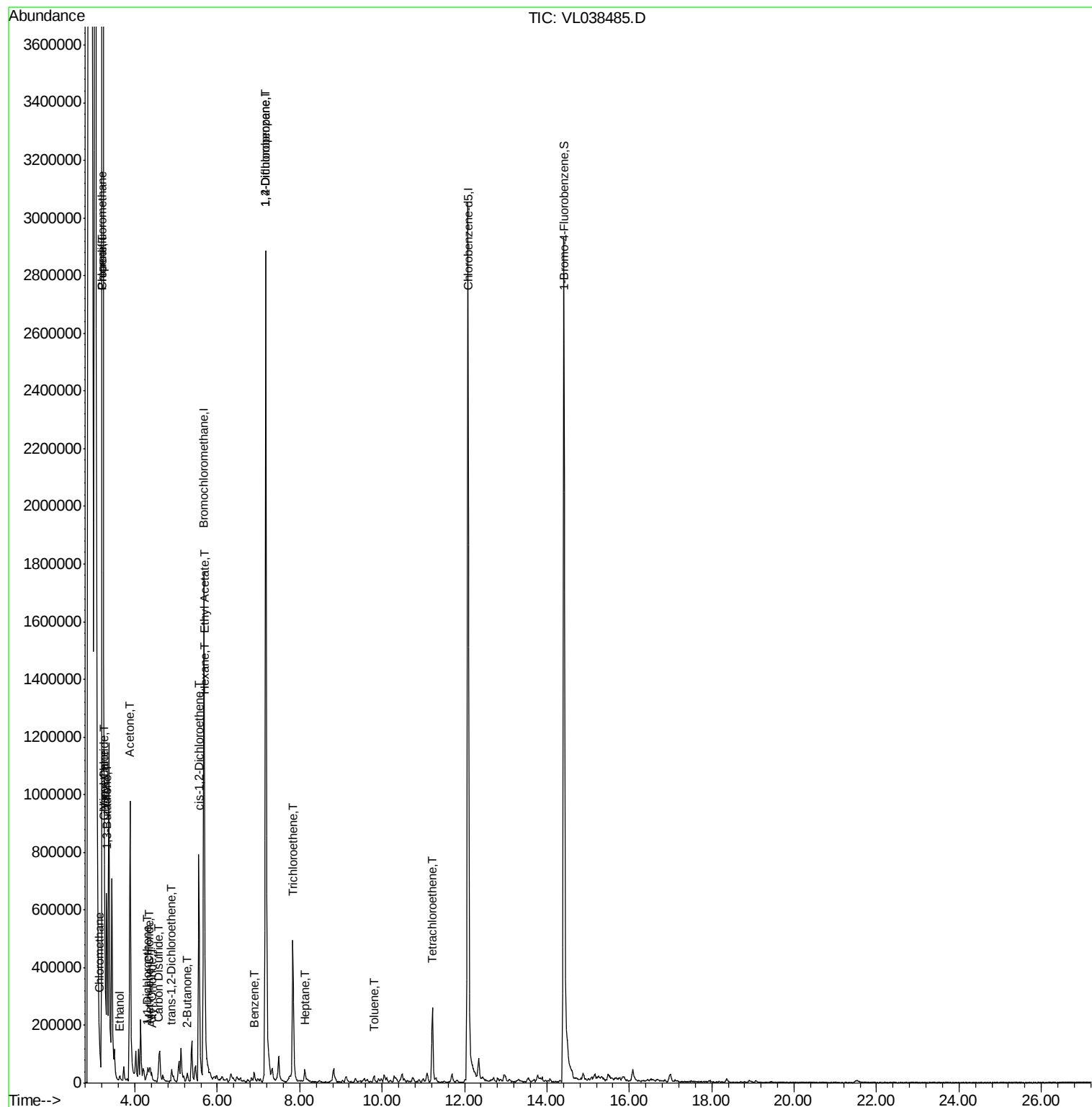
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.21	51	63371	0.37	ppbv #	59
4) Chloromethane	3.15	50	2053	0.03	ppbv #	42
5) Vinyl Chloride	3.27	62	198902	3.18	ppbv	97
7) Chloroethane	3.27	64	64432	3.21	ppbv #	42
9) Propene	3.21	41	3024843	53.27	ppbv	97
10) Heptane	8.13	43	10246	0.07	ppbv #	41
13) Ethanol	3.63	45	9423	1.66	ppbv	67
15) Acetone	3.88	43	566182	6.84	ppbv #	76
16) 1,3-Butadiene	3.32	39	210188	3.80	ppbv #	31
18) 1,1-Dichloroethene	4.29	96	3418	0.07	ppbv	82
20) Methylene Chloride	4.35	84	12366	0.30	ppbv #	86
21) Allyl Chloride	4.40	41	2240	0.03	ppbv #	1
22) trans-1,2-Dichloroethene	4.89	96	5268	0.11	ppbv	82
25) Ethyl Acetate	5.69	43	45793	0.21	ppbv #	87
26) Hexane	5.69	57	45263	0.45	ppbv #	51
27) Carbon Disulfide	4.56	76	4236	0.04	ppbv #	39
31) cis-1,2-Dichloroethene	5.55	61	508237	5.21	ppbv	98
34) 2-Butanone	5.27	43	40680	0.57	ppbv	92
36) Benzene	6.89	78	13291	0.07	ppbv #	87
38) Trichloroethene	7.83	130	148850	2.05	ppbv	95
39) 1,2-Dichloropropane	7.18	63	605357	7.61	ppbv #	26
52) Tetrachloroethene	11.22	164	58044	0.88	ppbv	95
53) Toluene	9.81	91	11025	0.05	ppbv #	83

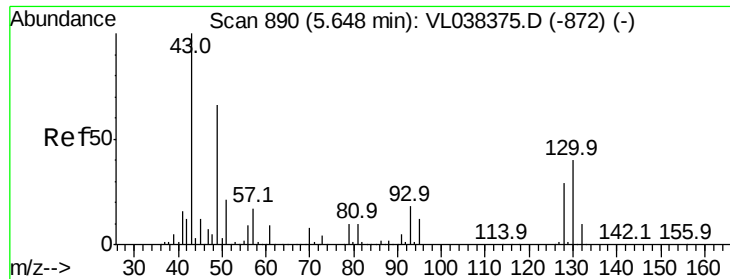
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 2 Mar 2022 17:12 SV-02DL

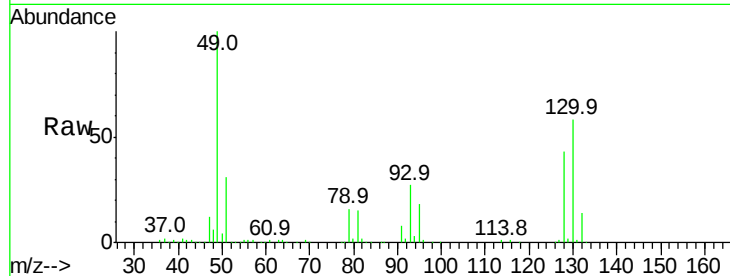
Tgt Ion: 49 Resp: 973853

Ion Ratio Lower Upper

49 100

128 45.6 24.3 72.9

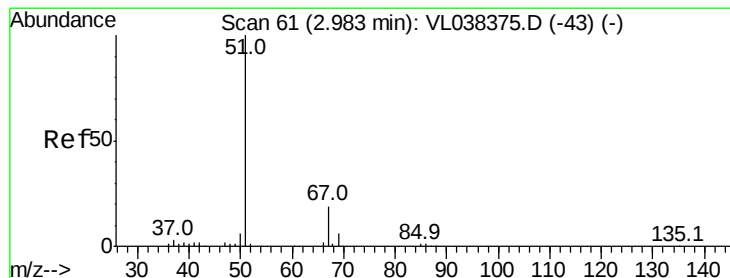
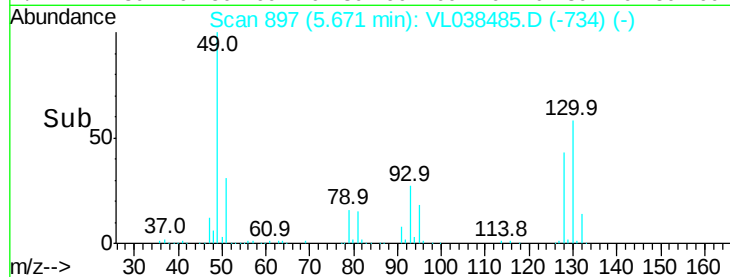
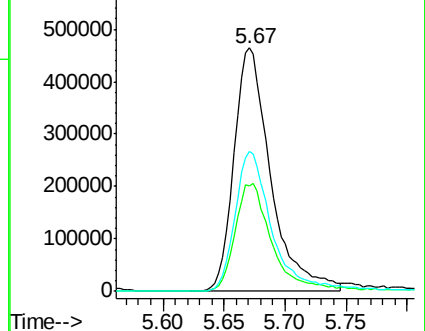
130 59.5 30.1 90.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.37 ppbv

RT: 3.21 min Scan# 133

Delta R.T. 0.23 min

Lab File: VL038485.D

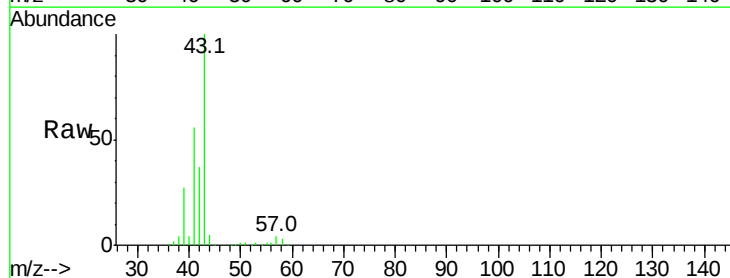
Acq: 2 Mar 2022 17:12

Tgt Ion: 51 Resp: 63371

Ion Ratio Lower Upper

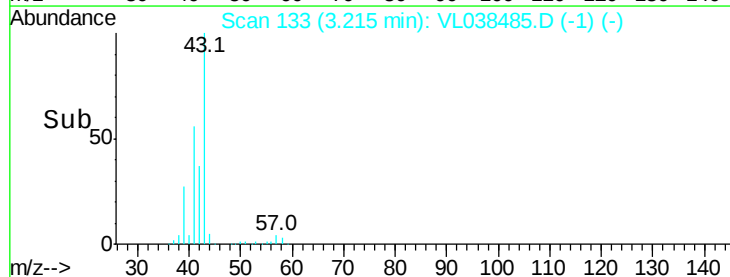
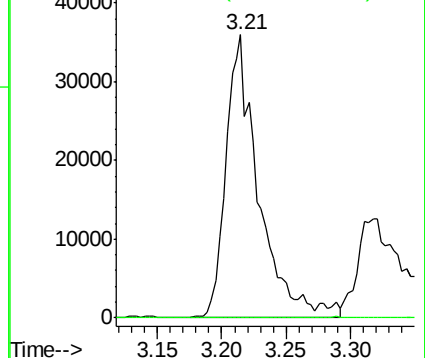
51 100

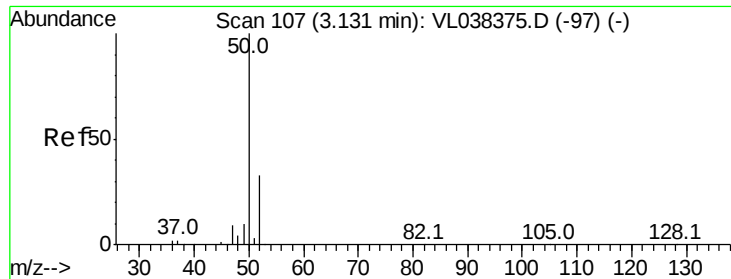
67 0.0 14.7 22.1#



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 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

SV-02DL

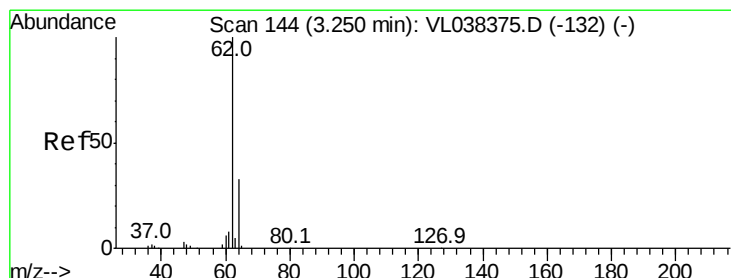
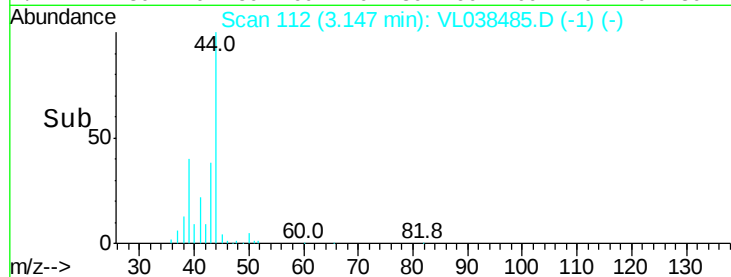
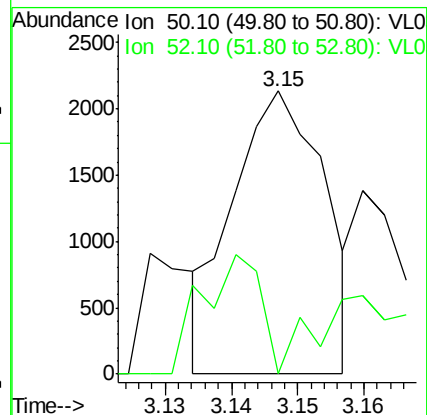
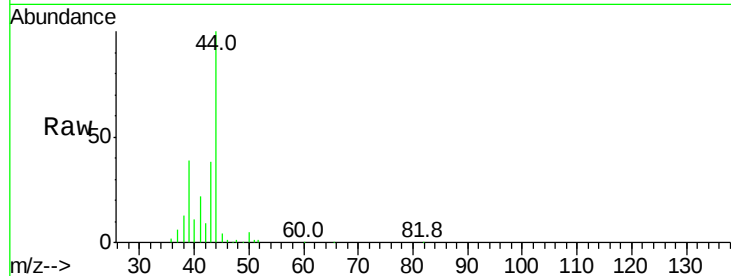
Acq: 2 Mar 2022 17:12

Tgt Ion: 50 Resp: 2053

Ion Ratio Lower Upper

50 100

52 0.0 26.5 39.7#



#5

Vinyl Chloride

Concen: 3.18 ppbv

RT: 3.27 min Scan# 149

Delta R.T. 0.02 min

Lab File: VL038485.D

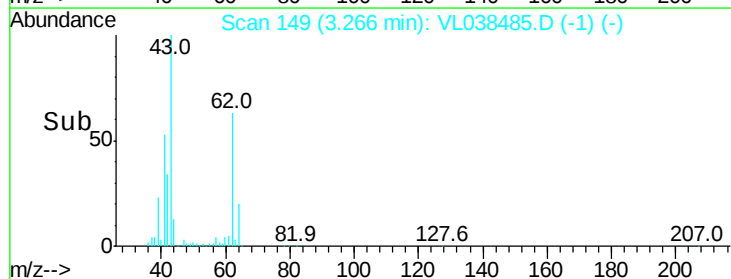
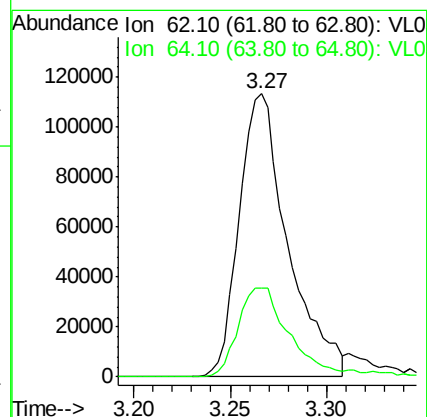
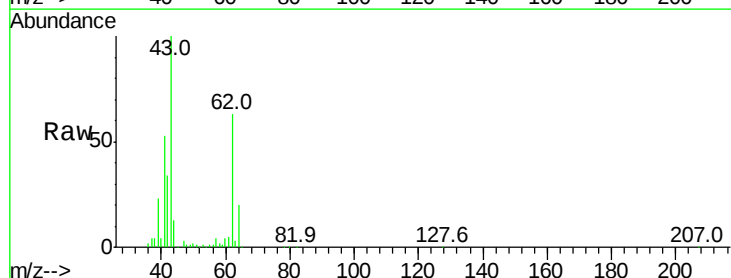
Acq: 2 Mar 2022 17:12

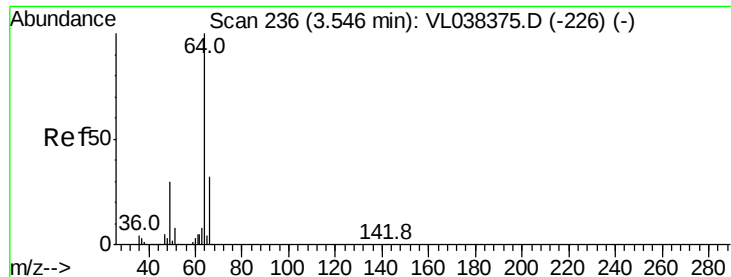
Tgt Ion: 62 Resp: 198902

Ion Ratio Lower Upper

62 100

64 31.3 26.2 39.2





#7

Chloroethane

Concen: 3.21 ppbv

RT: 3.27

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

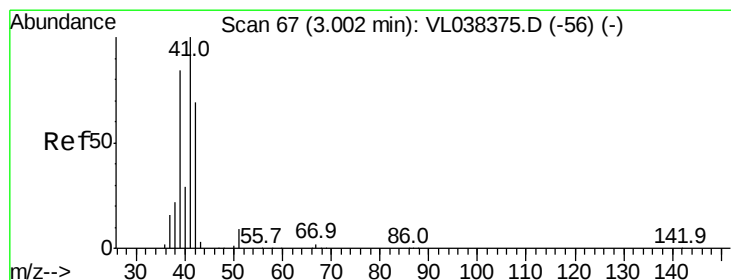
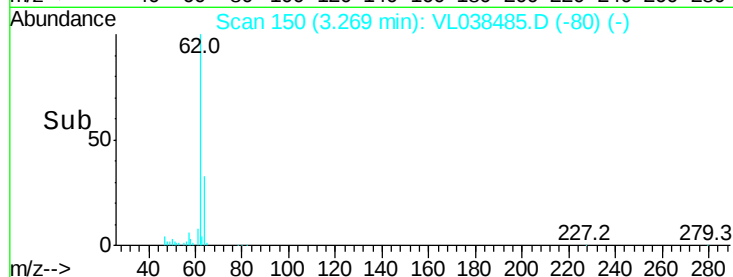
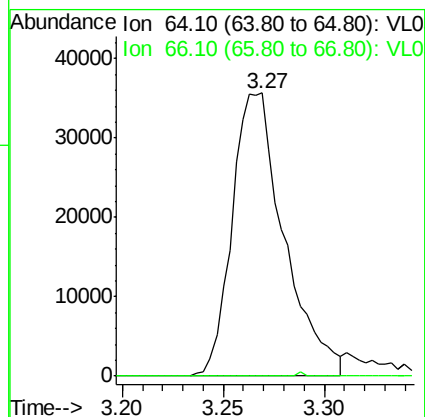
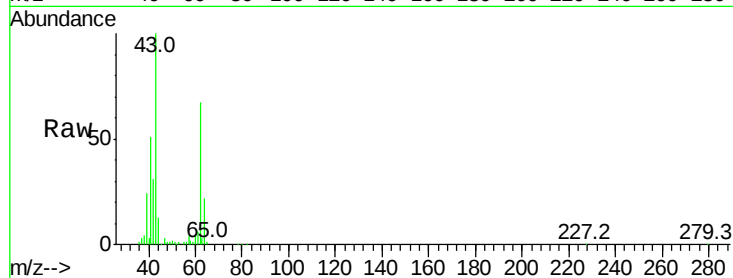
Acq: 2 Mar 2022 17:12

Tgt Ion: 64 Resp: 64432

Ion Ratio Lower Upper

64 100

66 0.0 25.9 38.9#



#9

Propene

Concen: 53.27 ppbv

RT: 3.21 min Scan# 133

Delta R.T. 0.21 min

Lab File: VL038485.D

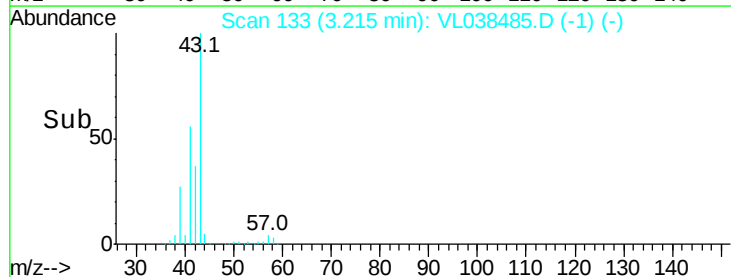
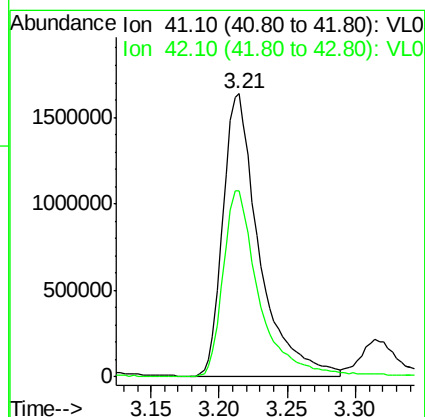
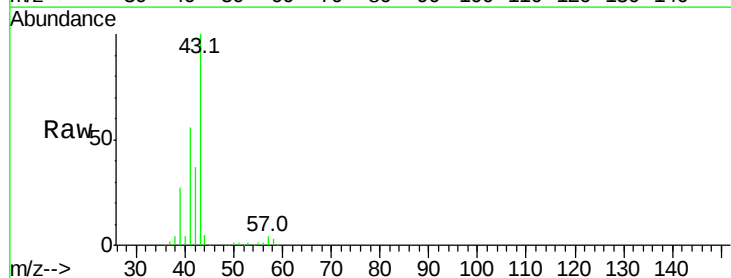
Acq: 2 Mar 2022 17:12

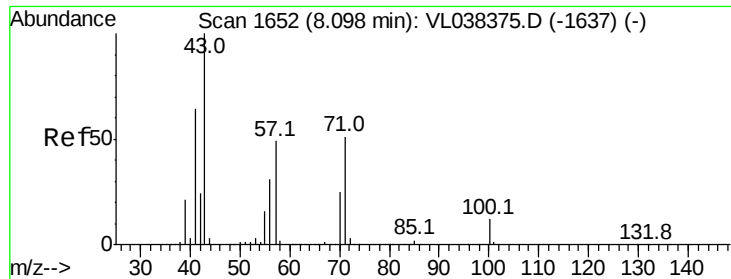
Tgt Ion: 41 Resp: 3024843

Ion Ratio Lower Upper

41 100

42 66.1 54.6 82.0





#10

Heptane

Concen: 0.07 ppbv

RT: 8.13 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

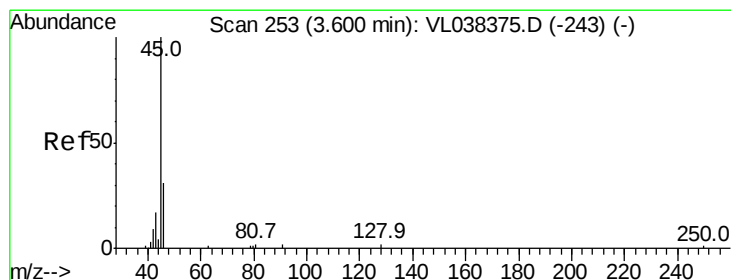
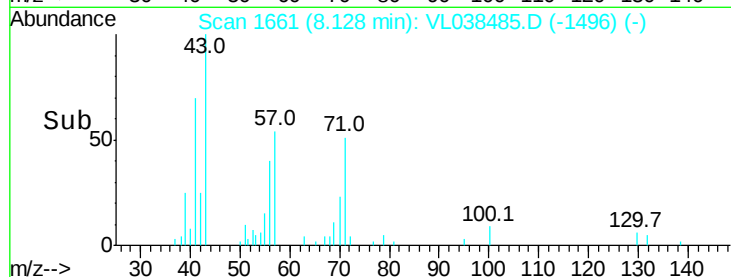
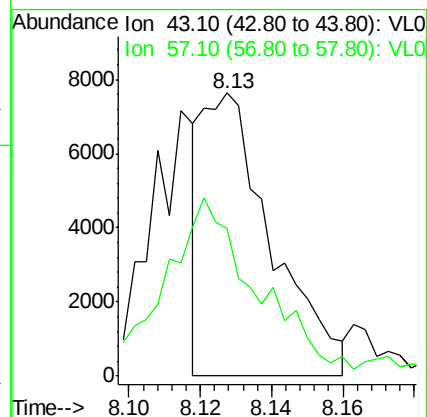
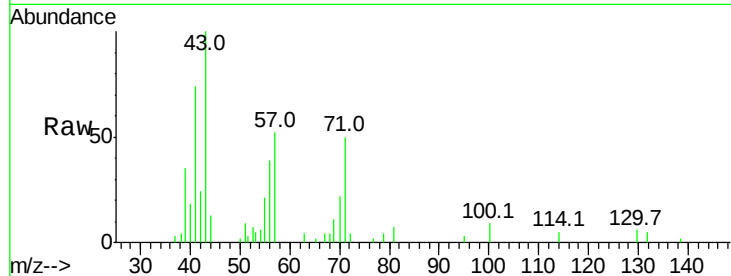
Acq: 2 Mar 2022 17:12 SV-02DL

Tgt Ion: 43 Resp: 10246

Ion Ratio Lower Upper

43 100

57 90.0 39.8 59.8#



#13

Ethanol

Concen: 1.66 ppbv

RT: 3.63 min Scan# 261

Delta R.T. 0.03 min

Lab File: VL038485.D

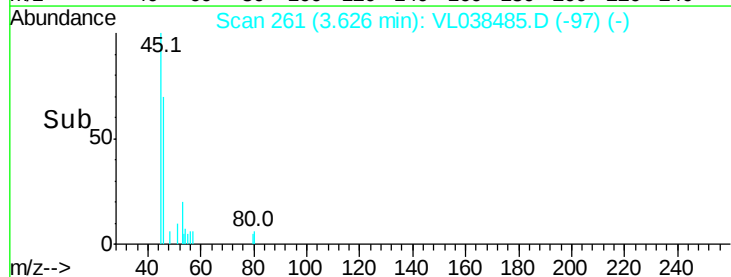
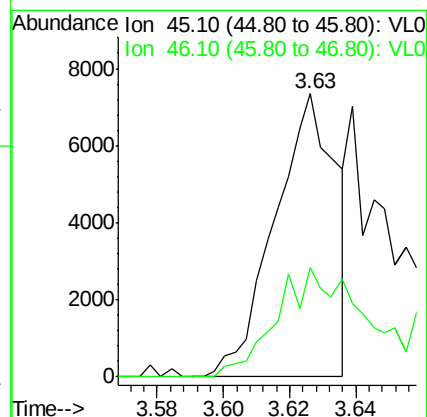
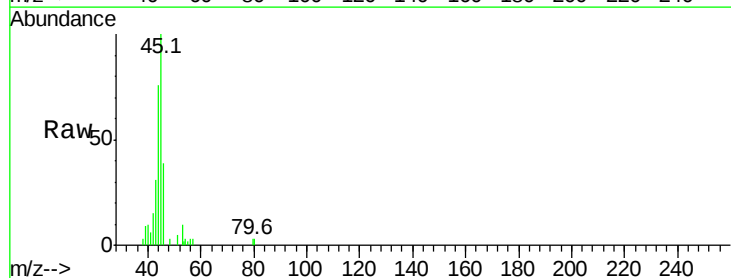
Acq: 2 Mar 2022 17:12

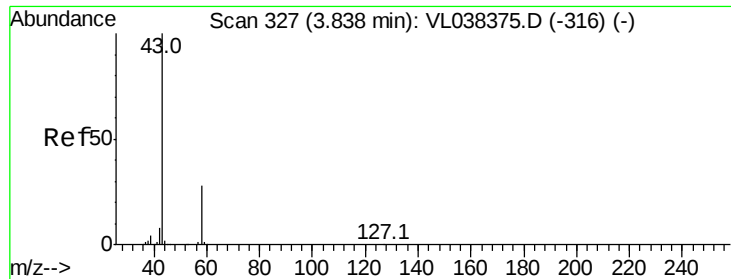
Tgt Ion: 45 Resp: 9423

Ion Ratio Lower Upper

45 100

46 67.2 18.2 72.8





#15

Acetone

Concen: 6.84 ppbv

RT: 3.88

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

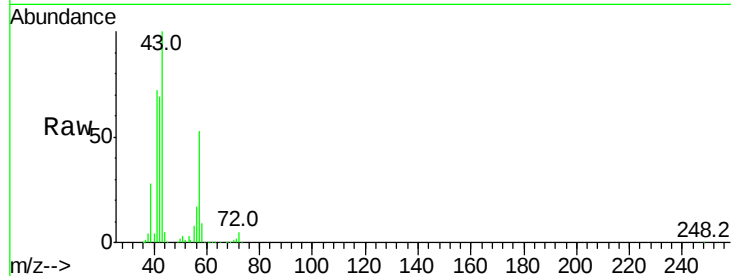
Acq: 2 Mar 2022 17:12

Tgt Ion: 43 Resp: 566182

Ion Ratio Lower Upper

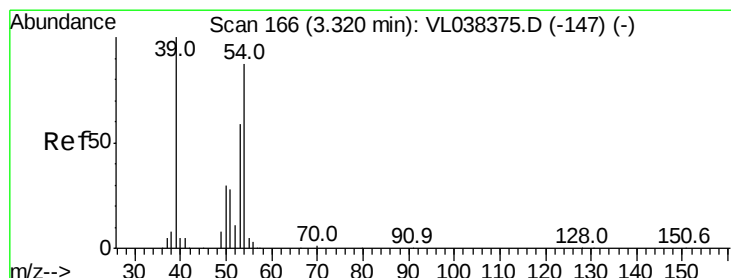
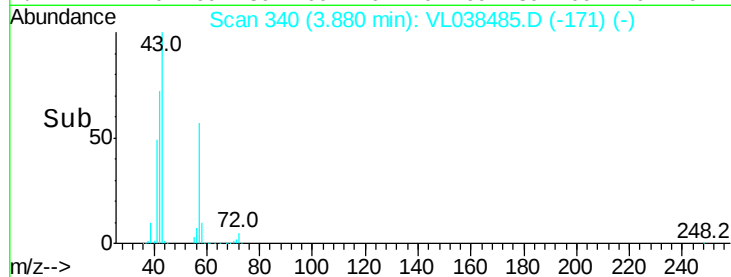
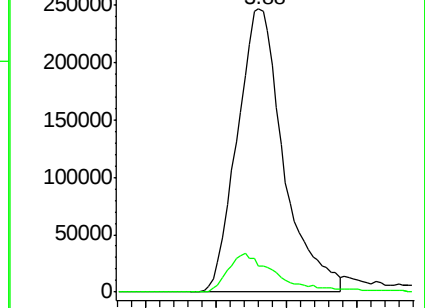
43 100

58 14.5 21.7 32.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 3.80 ppbv

RT: 3.32 min Scan# 165

Delta R.T. -0.00 min

Lab File: VL038485.D

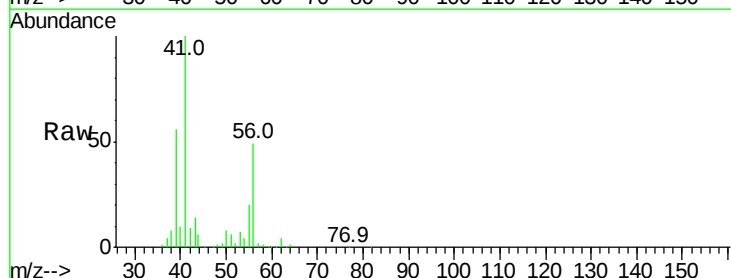
Acq: 2 Mar 2022 17:12

Tgt Ion: 39 Resp: 210188

Ion Ratio Lower Upper

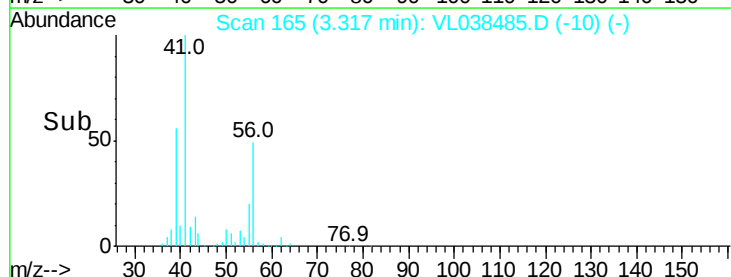
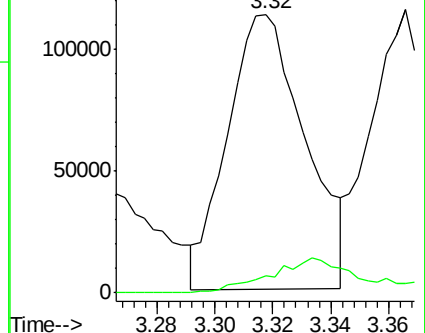
39 100

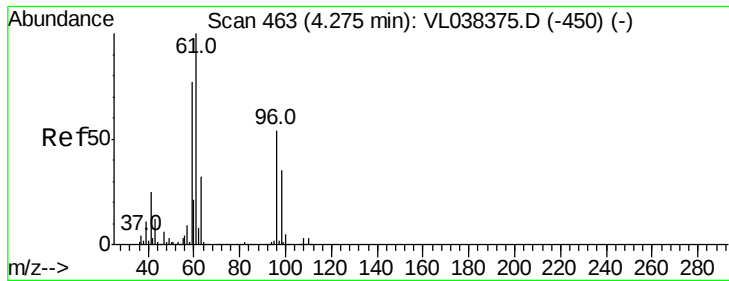
54 16.2 60.3 90.5#



Abundance Ion 39.10 (38.80 to 39.80): VL0

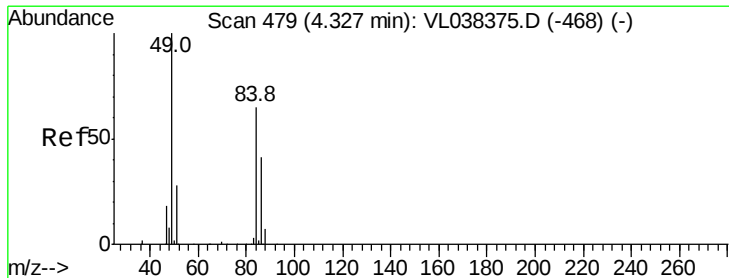
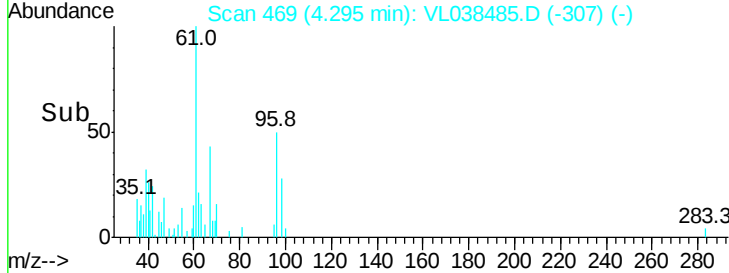
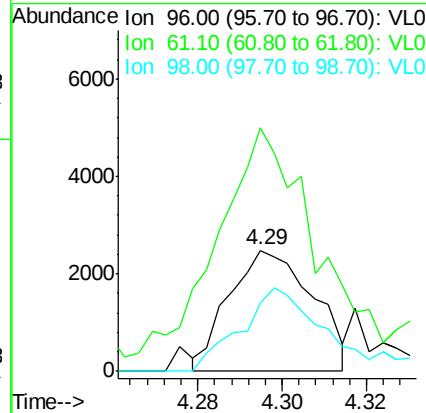
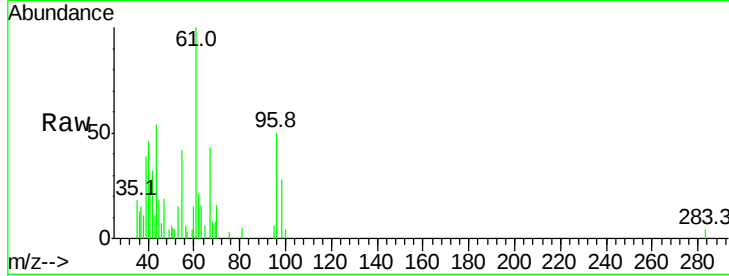
Ion 54.10 (53.80 to 54.80): VL0





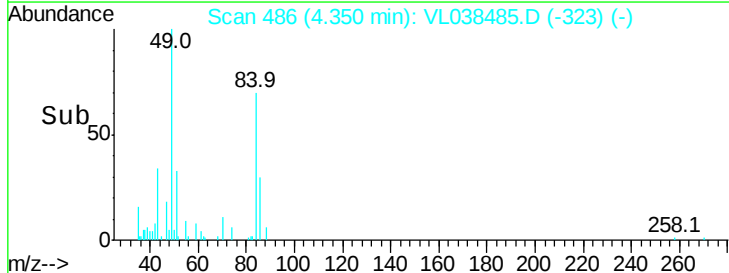
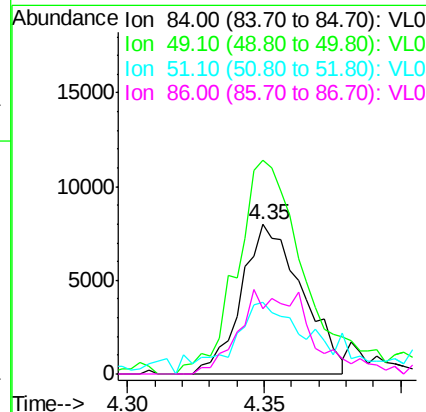
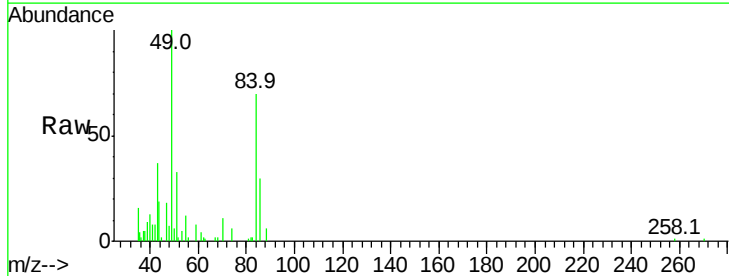
#18
 1,1-Dichloroethene
 Concen: 0.07 ppbv
 RT: 4.29
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-02DL
 Acq: 2 Mar 2022 17:12

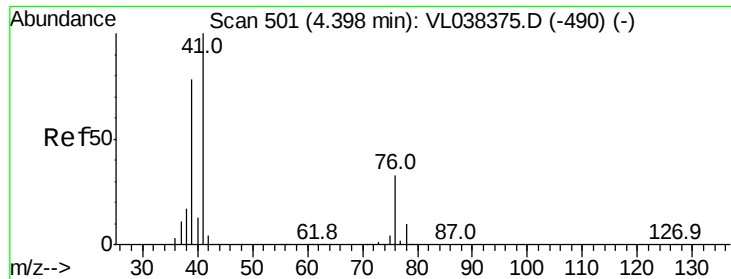
Tgt Ion: 96 Resp: 3418
 Ion Ratio Lower Upper
 96 100
 61 149.6 146.8 220.2
 98 63.9 51.5 77.3



#20
 Methylene Chloride
 Concen: 0.30 ppbv
 RT: 4.35 min Scan# 486
 Delta R.T. 0.02 min
 Lab File: VL038485.D
 Acq: 2 Mar 2022 17:12

Tgt Ion: 84 Resp: 12366
 Ion Ratio Lower Upper
 84 100
 49 135.9 122.4 183.6
 51 40.9 33.3 49.9
 86 43.3 50.7 76.1#





#21

Allyl Chloride

Concen: 0.03 ppbv

RT: 4.40 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 2 Mar 2022 17:12 SV-02DL

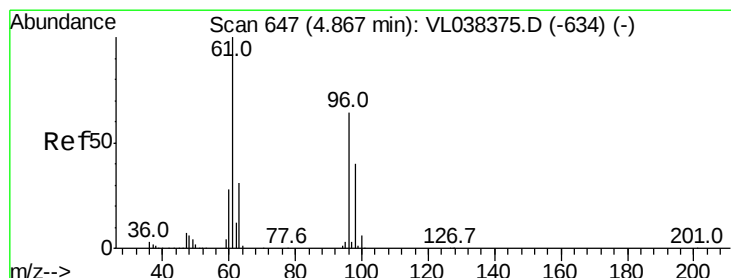
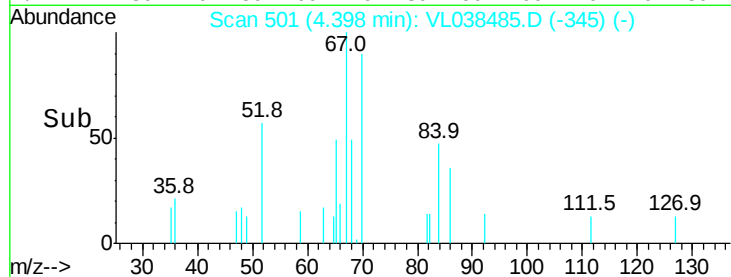
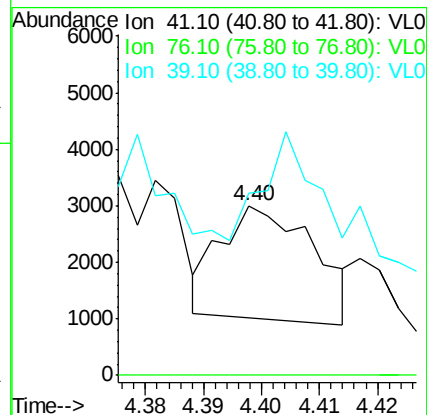
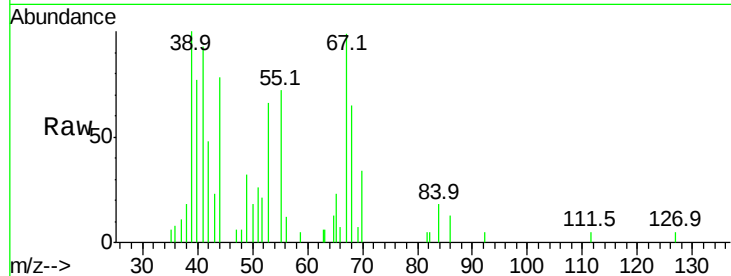
Tgt Ion: 41 Resp: 2240

Ion Ratio Lower Upper

41 100

76 0.0 25.4 38.0#

39 304.5 63.0 94.6#



#22

trans-1,2-Dichloroethene

Concen: 0.11 ppbv

RT: 4.89 min Scan# 654

Delta R.T. 0.02 min

Lab File: VL038485.D

Acq: 2 Mar 2022 17:12

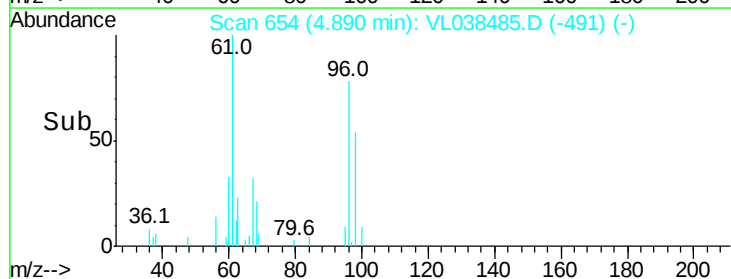
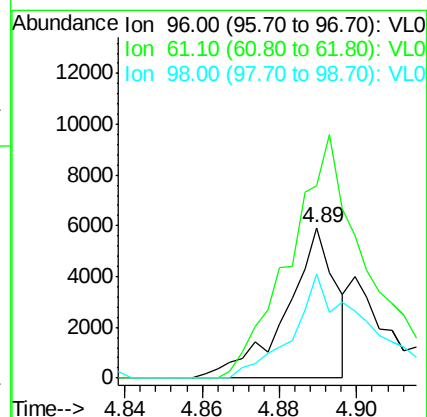
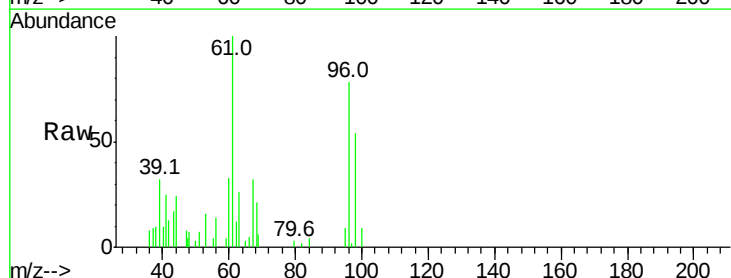
Tgt Ion: 96 Resp: 5268

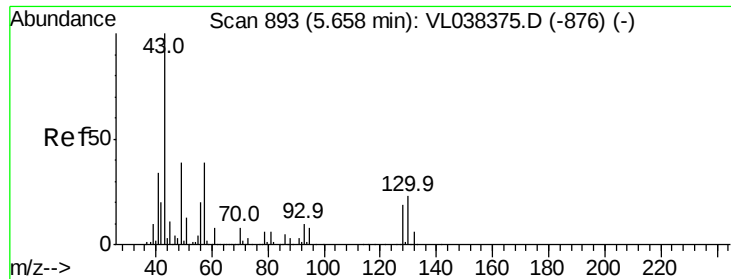
Ion Ratio Lower Upper

96 100

61 127.8 124.2 186.4

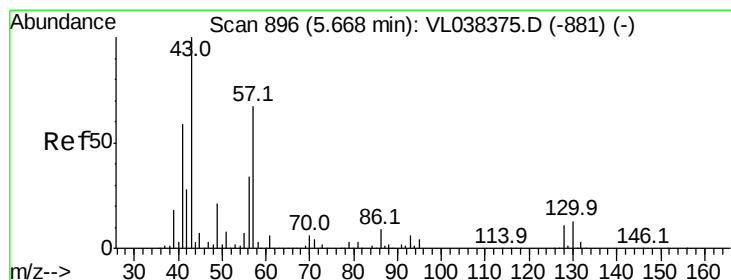
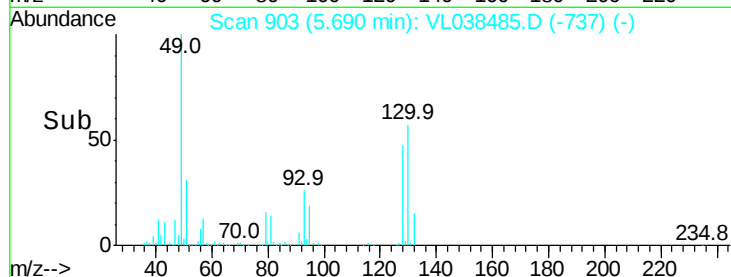
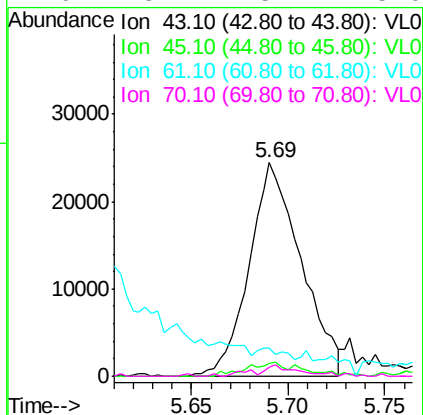
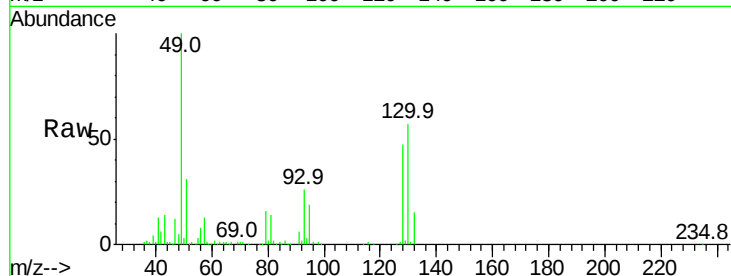
98 69.5 49.1 73.7





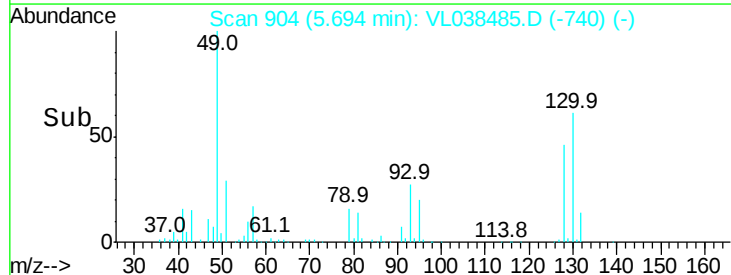
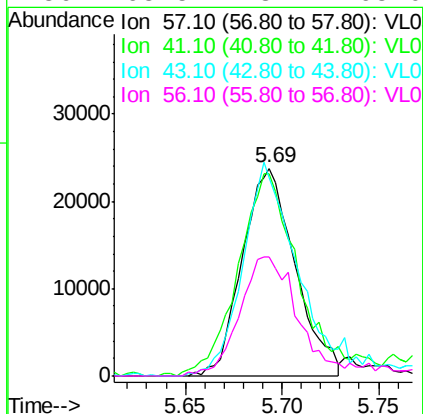
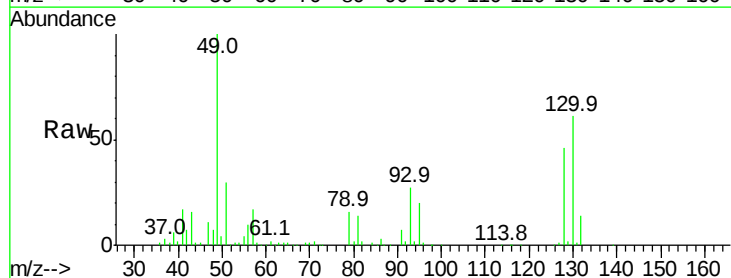
#25
Ethyl Acetate
Concen: 0.21 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-02DL
Acq: 2 Mar 2022 17:12

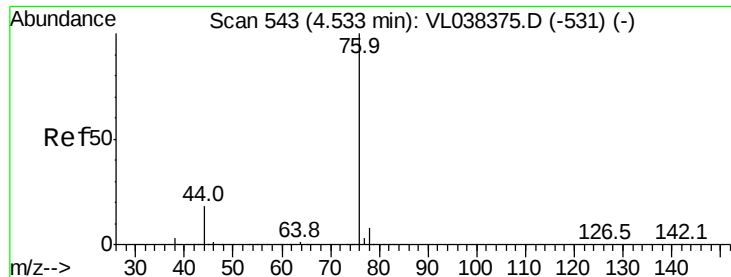
Tgt Ion:	43	Resp:	45793
Ion	Ratio	Lower	Upper
43	100		
45	7.3	7.8	11.6#
61	0.0	7.5	11.3#
70	5.1	5.4	8.0#



#26
Hexane
Concen: 0.45 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.03 min
Lab File: VL038485.D
Acq: 2 Mar 2022 17:12

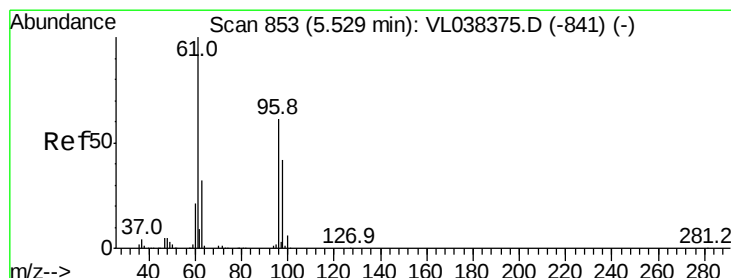
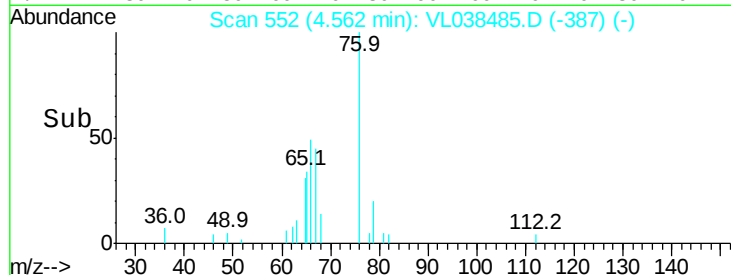
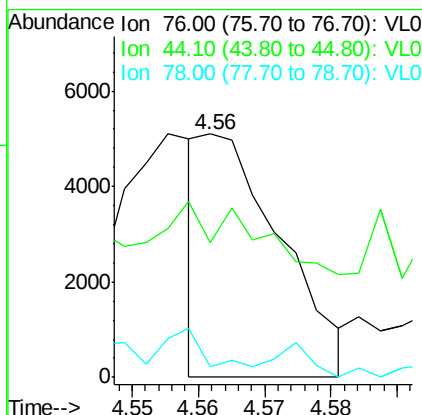
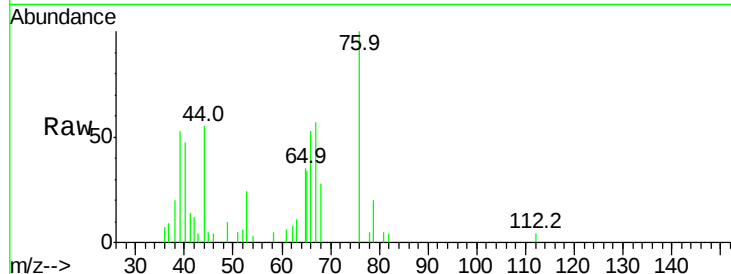
Tgt Ion:	57	Resp:	45263
Ion	Ratio	Lower	Upper
57	100		
41	112.9	73.1	109.7#
43	114.4	181.0	271.4#
56	65.5	43.4	65.0#





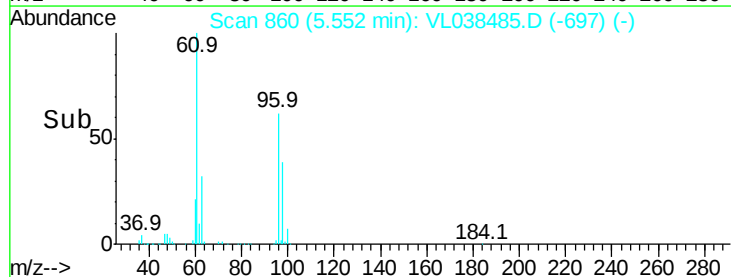
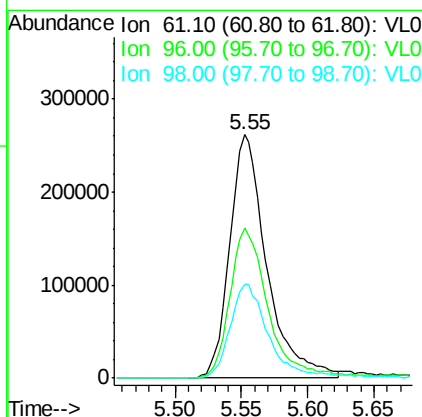
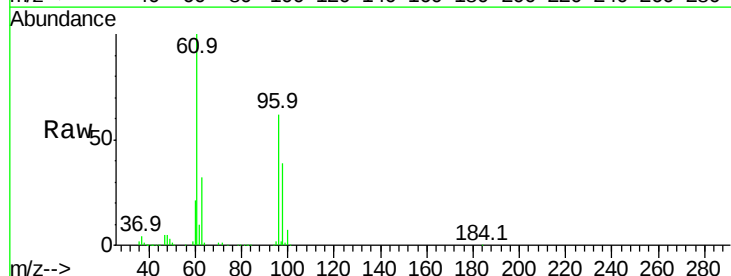
#27
Carbon Disulfide
Concen: 0.04 ppbv
RT: 4.56
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-02DL
Acq: 2 Mar 2022 17:12

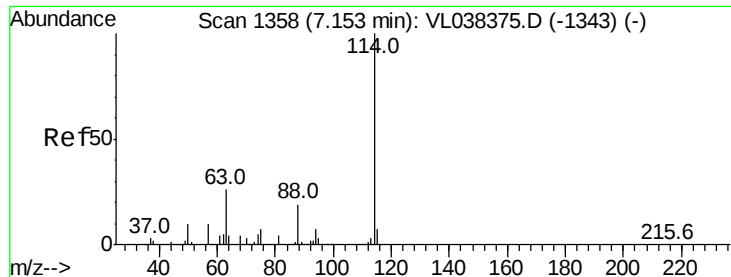
Tgt Ion: 76 Resp: 4236
Ion Ratio Lower Upper
76 100
44 44.5 14.2 21.2#
78 32.2 7.8 11.6#



#31
cis-1,2-Dichloroethene
Concen: 5.21 ppbv
RT: 5.55 min Scan# 860
Delta R.T. 0.02 min
Lab File: VL038485.D
Acq: 2 Mar 2022 17:12

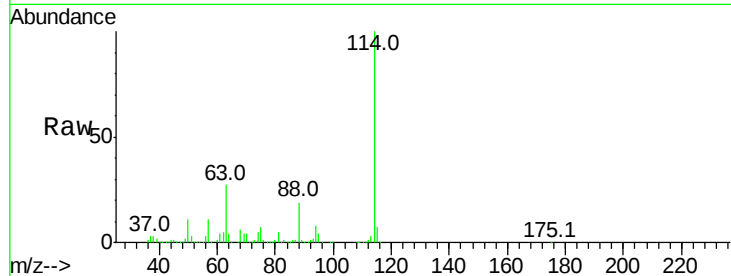
Tgt Ion: 61 Resp: 508237
Ion Ratio Lower Upper
61 100
96 61.6 48.6 73.0
98 38.7 33.2 49.8



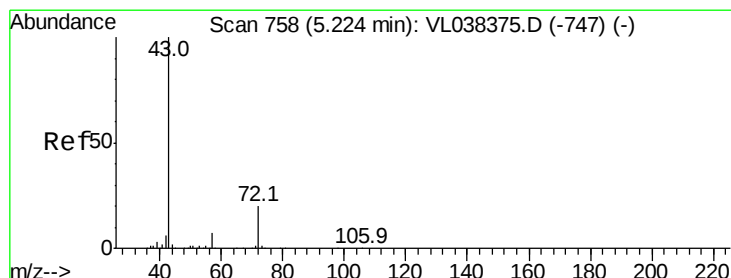
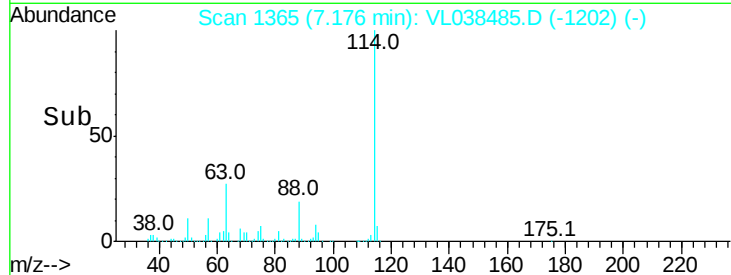
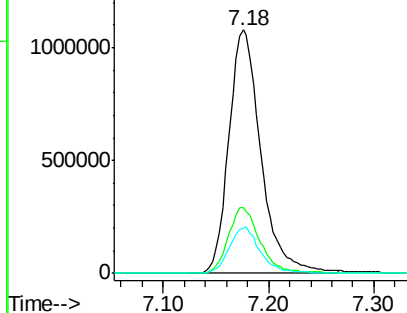


#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-02DL
 Acq: 2 Mar 2022 17:12

Tgt Ion: 114 Resp: 2269017
 Ion Ratio Lower Upper
 114 100
 63 27.3 22.2 33.2
 88 18.4 15.2 22.8

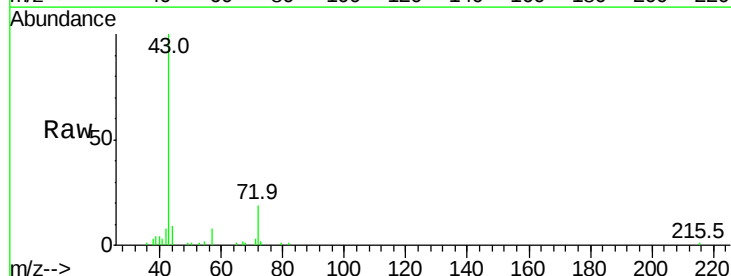


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

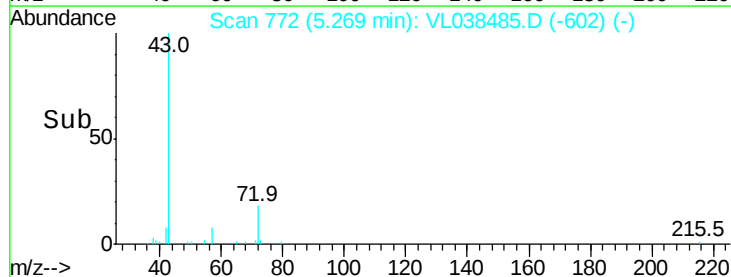
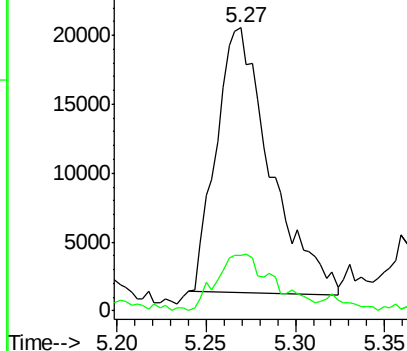


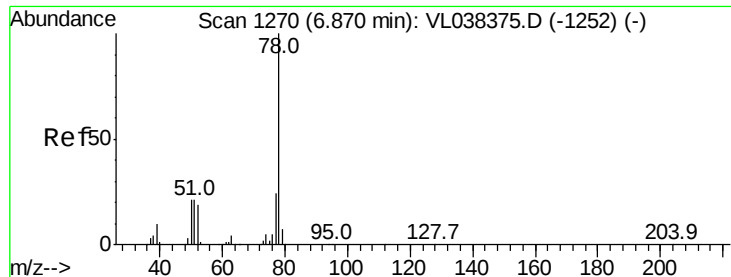
#34
 2-Butanone
 Concen: 0.57 ppbv
 RT: 5.27 min Scan# 772
 Delta R.T. 0.05 min
 Lab File: VL038485.D
 Acq: 2 Mar 2022 17:12

Tgt Ion: 43 Resp: 40680
 Ion Ratio Lower Upper
 43 100
 72 25.8 17.4 26.2



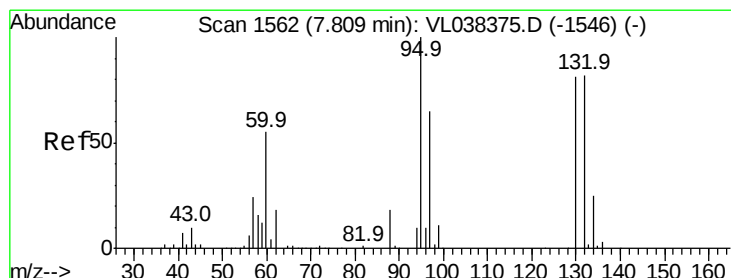
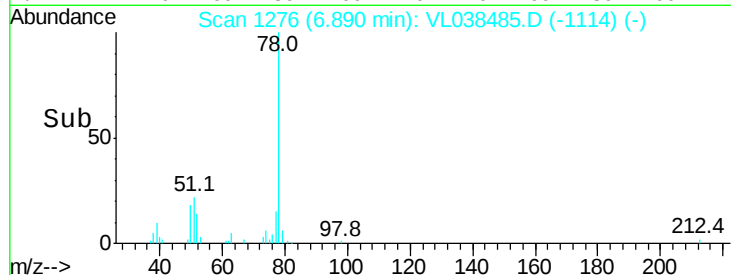
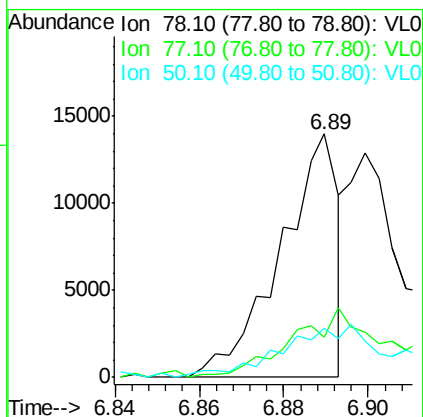
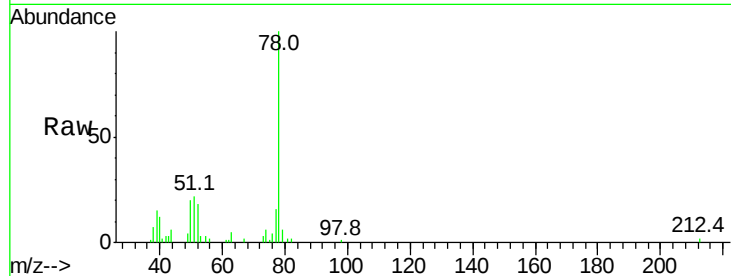
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





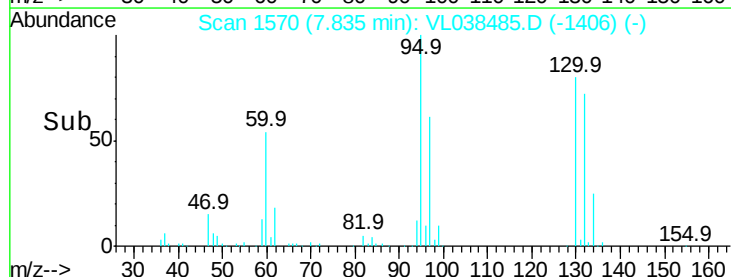
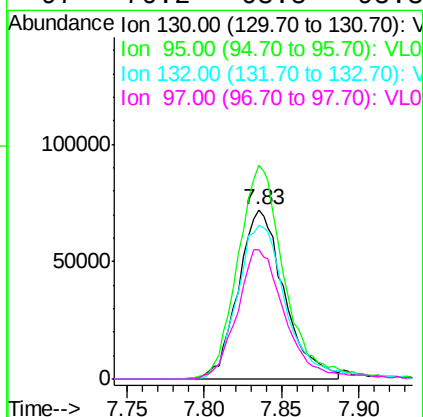
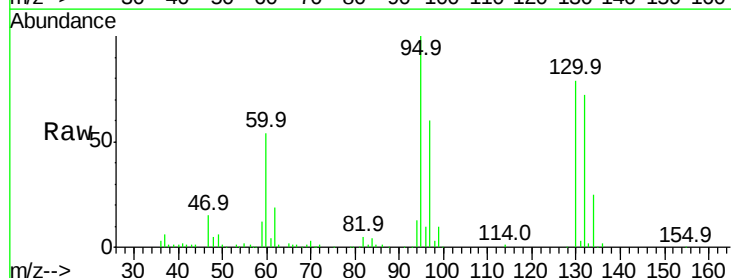
#36
Benzene
Concen: 0.07 ppbv
RT: 6.89
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-02DL
Acq: 2 Mar 2022 17:12

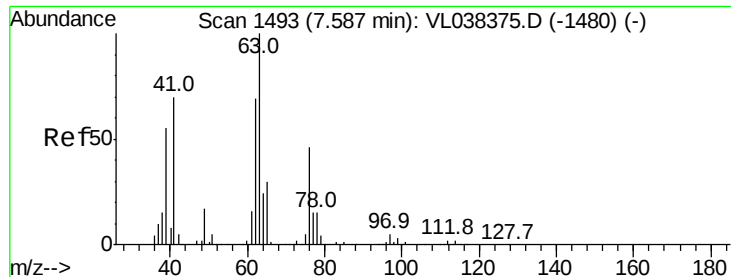
Tgt Ion: 78 Resp: 13291
Ion Ratio Lower Upper
78 100
77 16.4 19.0 28.6#
50 16.2 16.6 24.8#



#38
Trichloroethene
Concen: 2.05 ppbv
RT: 7.83 min Scan# 1570
Delta R.T. 0.03 min
Lab File: VL038485.D
Acq: 2 Mar 2022 17:12

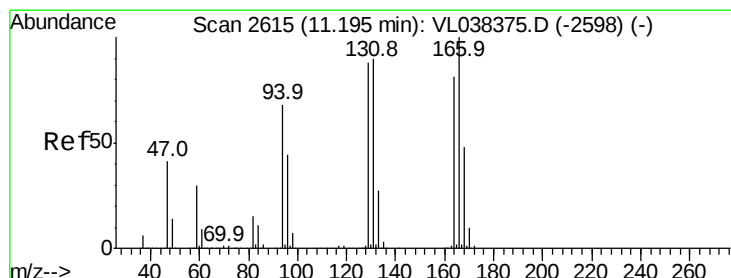
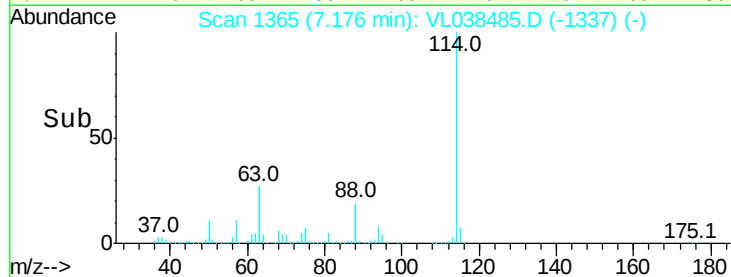
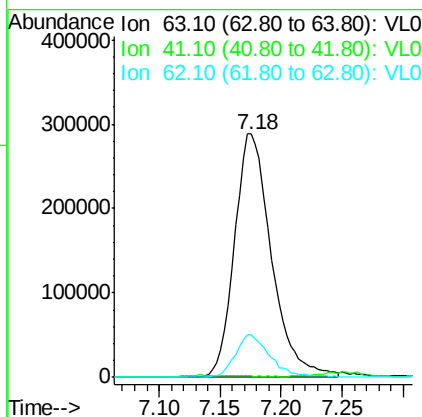
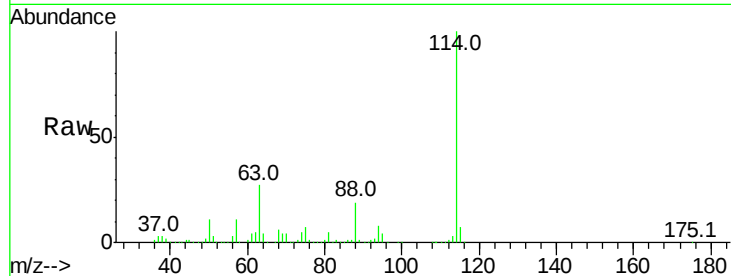
Tgt Ion: 130 Resp: 148850
Ion Ratio Lower Upper
130 100
95 125.4 98.1 147.1
132 90.6 80.3 120.5
97 76.2 63.5 95.3





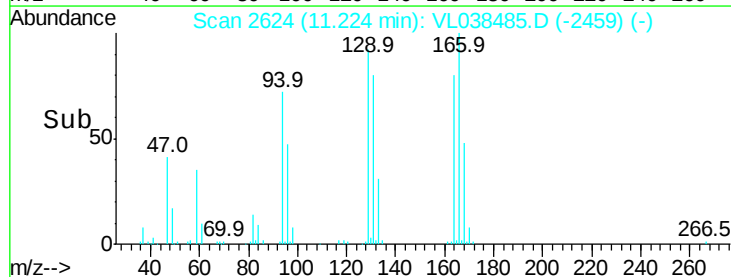
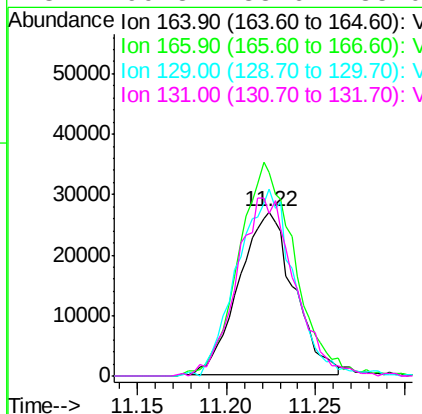
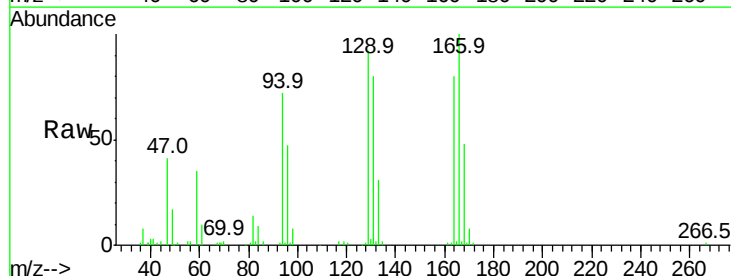
#39
 1,2-Dichloropropane
 Concen: 7.61 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 2 Mar 2022 17:12

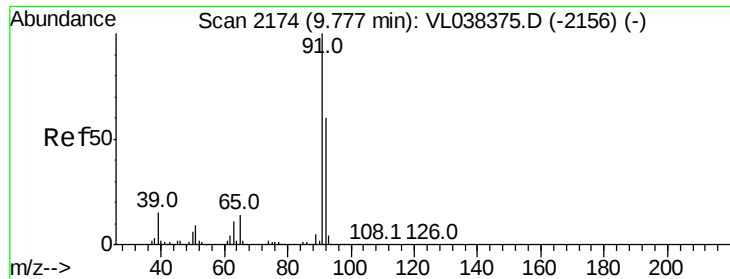
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	56.1	84.1#
62	17.8	55.5	83.3#



#52
 Tetrachloroethene
 Concen: 0.88 ppbv
 RT: 11.22 min Scan# 2624
 Delta R.T. 0.03 min
 Lab File: VL038485.D
 Acq: 2 Mar 2022 17:12

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.1	98.6	148.0
129	113.0	86.9	130.3
131	99.8	88.6	133.0





#53

Toluene

Concen: 0.05 ppbv

RT: 9.81 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

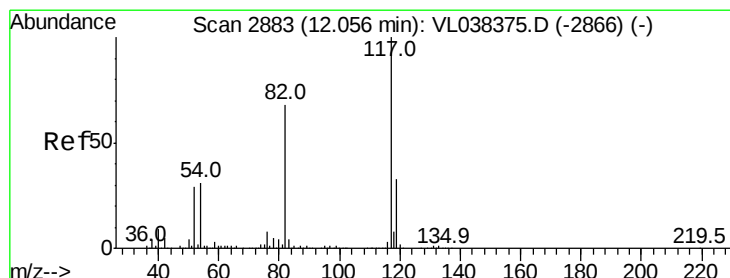
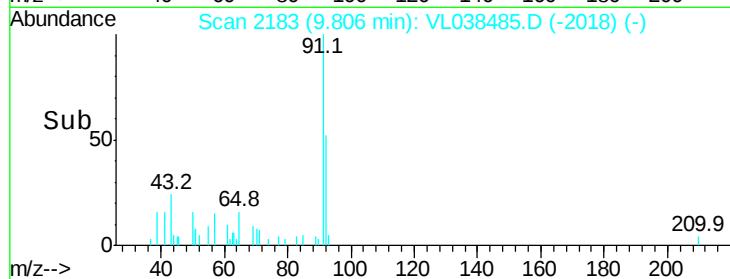
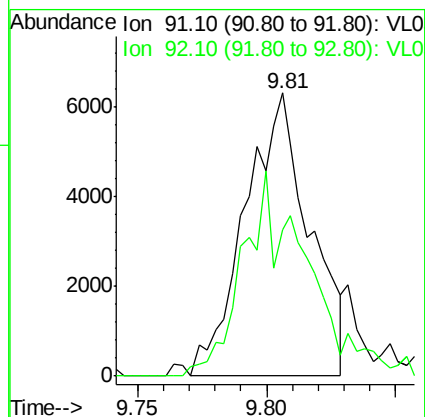
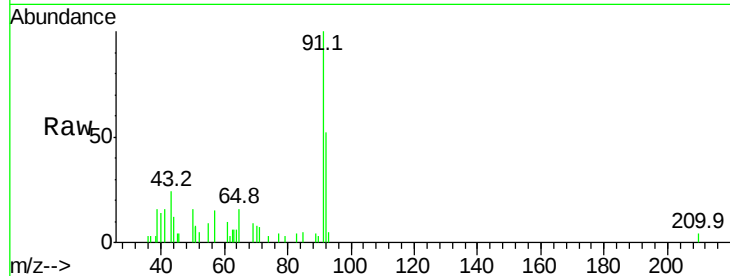
Acq: 2 Mar 2022 17:12 SV-02DL

Tgt Ion: 91 Resp: 11025

Ion Ratio Lower Upper

91 100

92 73.4 48.2 72.4#



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. 0.03 min

Lab File: VL038485.D

Acq: 2 Mar 2022 17:12

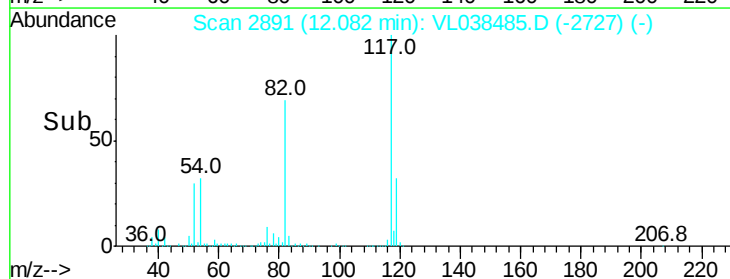
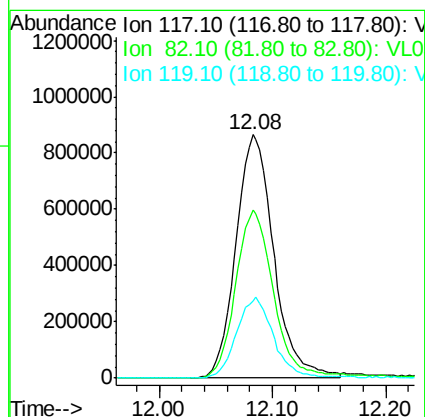
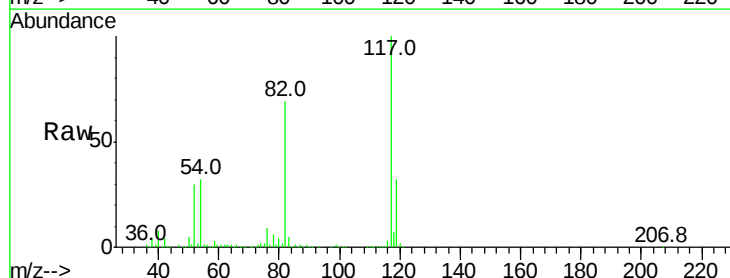
Tgt Ion: 117 Resp: 2014614

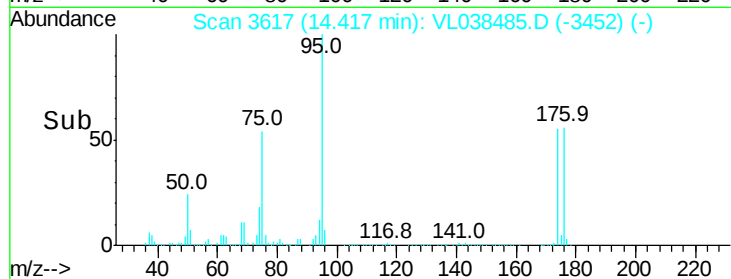
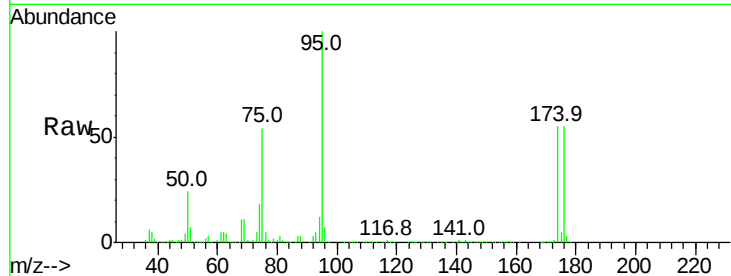
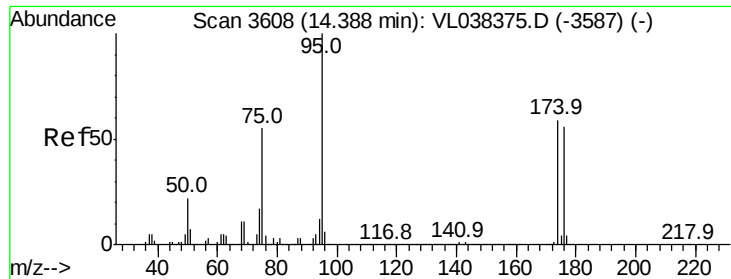
Ion Ratio Lower Upper

117 100

82 71.2 54.9 82.3

119 33.1 46.1 69.1#





#68

1-Bromo-4-Fluorobenzene

Concen: 4.15 ppbv

RT: 14.42 Instrument:

Delta R.T MSVOA_L

Lab File: ClientSampleId:

SV-02DL

Acq: 2 Mar 2022 17.12

Tgt Ion: 95 Resp: 691804

Ion Ratio Lower Upper

95 100

174 0.0 49.0 73.4#

175 10.3 3.6 5.4#

