

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032822\
 Data File : VL038776.D
 Acq On : 28 Mar 2022 18:17
 Operator : SY/AP
 Sample : N2078-04DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 V-5DUP

Quant Time: Mar 29 06:11:27 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	750614	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	1961043	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.08	117	1692227	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1259322	9.71	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.10%

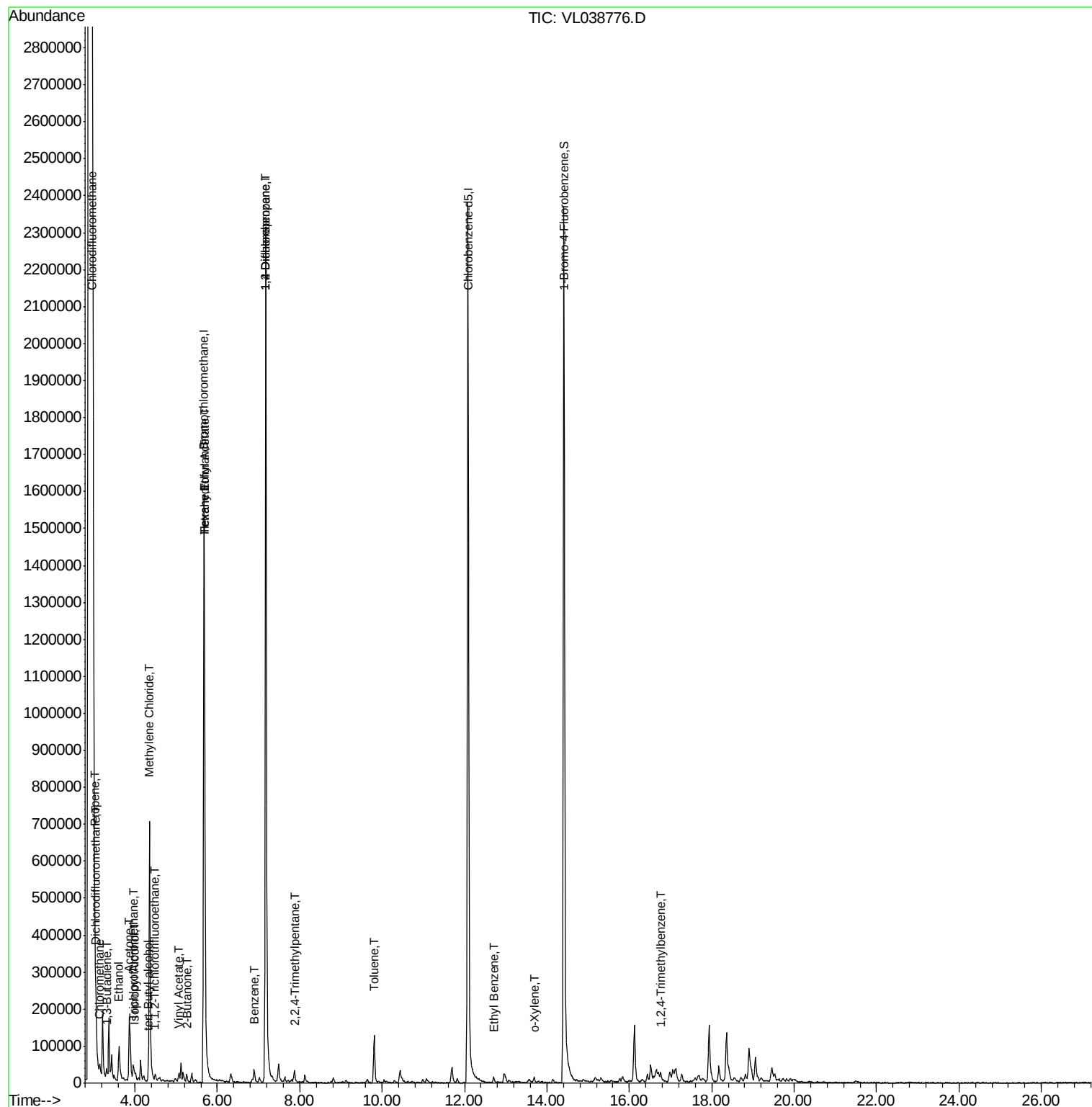
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	71533	0.709 ppbv	97
3) Chlorodifluoromethane	2.97	51	96584	1.218 ppbv #	71
4) Chloromethane	3.15	50	22315	0.513 ppbv	96
9) Propene	3.03	41	23773	0.621 ppbv	94
11) Trichlorofluoromethane	3.96	101	28974	0.325 ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.49	101	5202	0.076 ppbv	83
13) Ethanol	3.61	45	134395	31.832 ppbv	99
15) Acetone	3.86	43	234290	3.617 ppbv	100
16) 1,3-Butadiene	3.33	39	1463	0.040 ppbv #	1
17) tert-Butyl alcohol	4.31	59	1821	0.032 ppbv #	73
19) Isopropyl Alcohol	3.99	45	13721	0.382 ppbv #	91
20) Methylene Chloride	4.35	84	300096	11.000 ppbv	99
23) Vinyl Acetate	5.07	43	11024	0.176 ppbv #	38
25) Ethyl Acetate	5.69	43	157462	0.966 ppbv #	85
26) Hexane	5.69	57	216518	2.966 ppbv #	39
34) 2-Butanone	5.25	43	12846	0.166 ppbv #	53
36) Benzene	6.89	78	30249	0.200 ppbv	95
39) 1,2-Dichloropropane	7.18	63	462078	7.810 ppbv #	29
41) Tetrahydrofuran	5.69	42	80991	1.402 ppbv #	49
44) 2,2,4-Trimethylpentane	7.87	57	18928	0.074 ppbv #	44
53) Toluene	9.81	91	102063	0.628 ppbv	97
58) Ethyl Benzene	12.71	91	6186	0.031 ppbv	95
60) o-Xylene	13.69	91	9396	0.057 ppbv	89
74) 1,2,4-Trimethylbenzene	16.76	105	8671	0.045 ppbv #	72

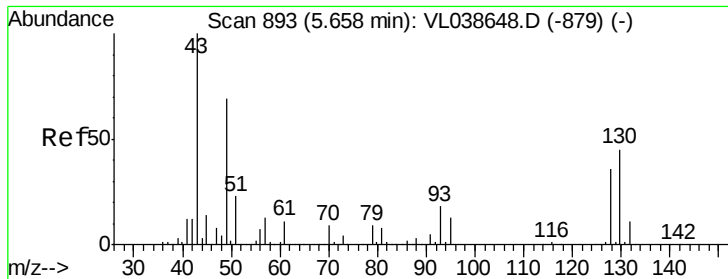
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Mar 2022 18:17

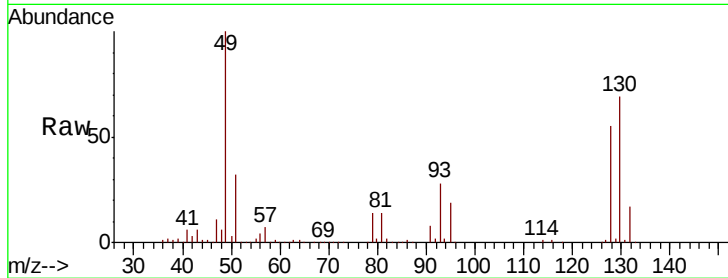
Tot Ion: 49 Resp: 750614

Ion Ratio Lower Upper

49 100

128 55.8 26.2 78.6

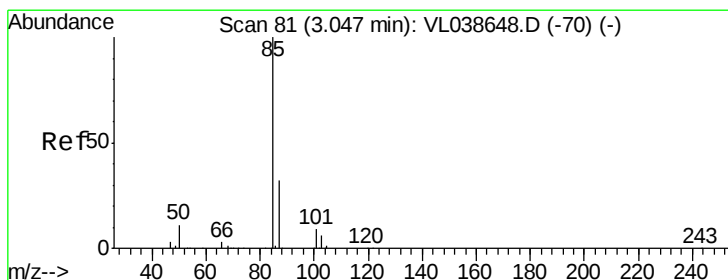
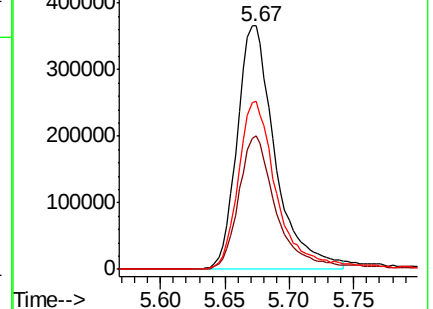
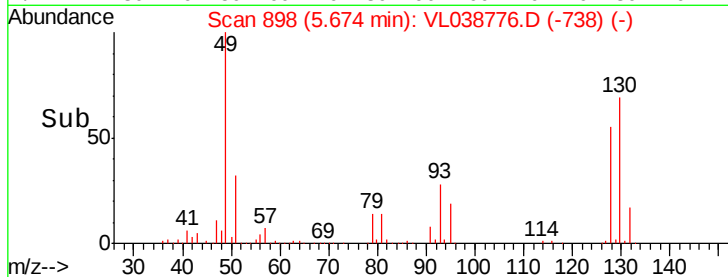
130 71.9 33.7 101.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.709 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL038776.D

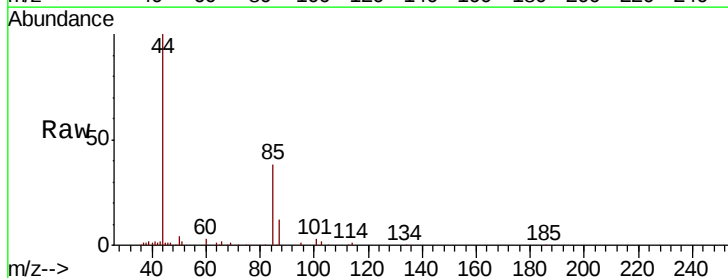
Acq: 28 Mar 2022 18:17

Tgt Ion: 85 Resp: 71533

Ion Ratio Lower Upper

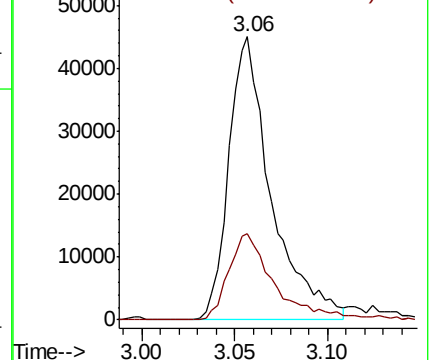
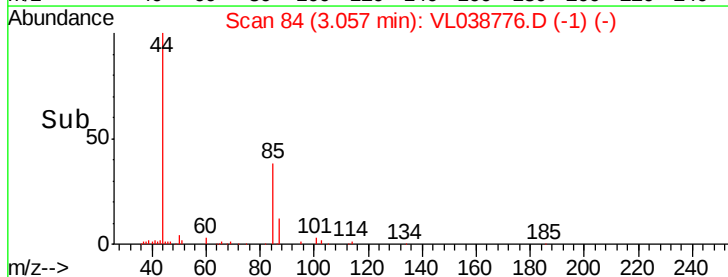
85 100

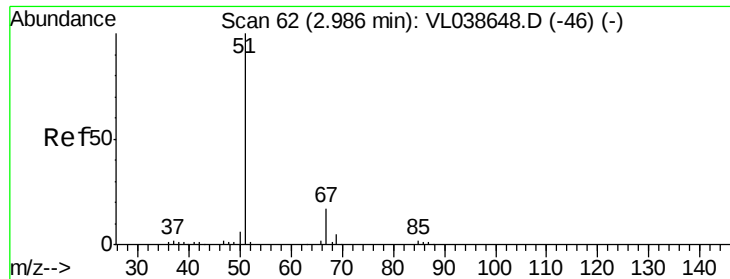
87 30.5 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

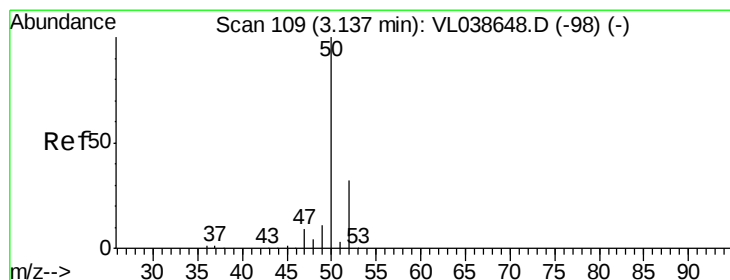
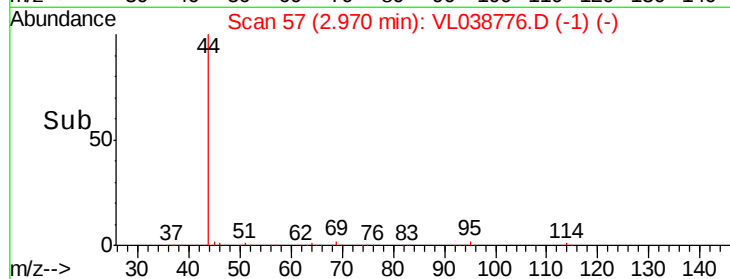
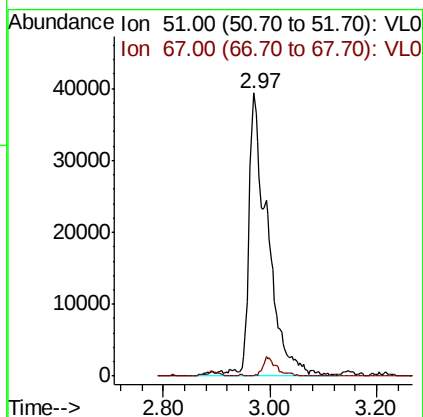
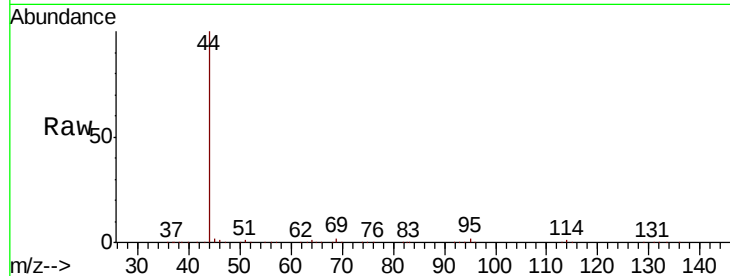
Ion 87.00 (86.70 to 87.70): VL0





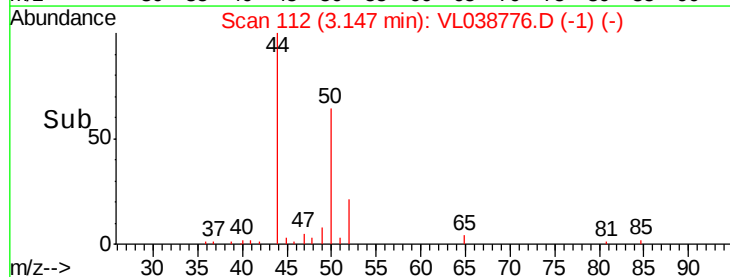
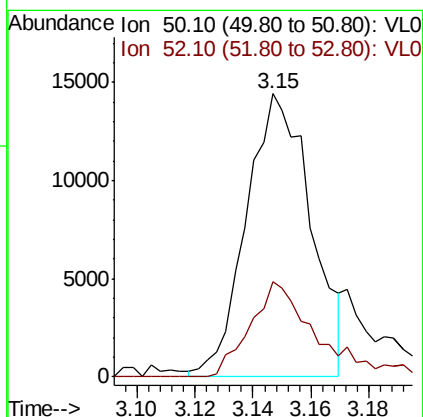
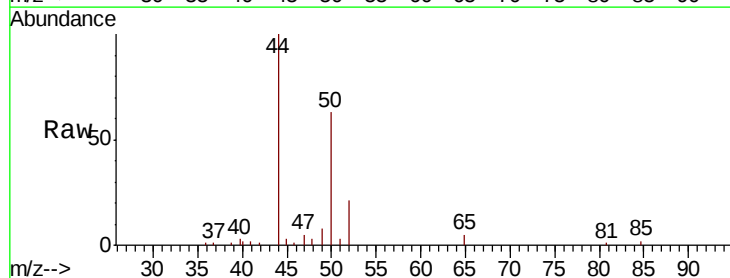
#3
 Chlorodifluoromethane
 Concen: 1.218 ppbv
 RT: 2.97 min
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId :
 V-5DUP
 Acq: 28 Mar 2022 18:17

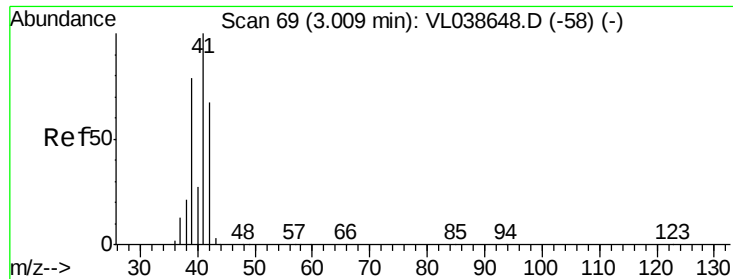
Tot Ion: 51 Resp: 96584
 Ion Ratio Lower Upper
 51 100
 67 4.9 14.1 21.1#



#4
 Chloromethane
 Concen: 0.513 ppbv
 RT: 3.15 min Scan# 112
 Delta R.T.: 0.01 min
 Lab File: VL038776.D
 Acq: 28 Mar 2022 18:17

Tgt Ion: 50 Resp: 22315
 Ion Ratio Lower Upper
 50 100
 52 34.3 25.5 38.3





#9

Propene

Concen: 0.621 ppbv

RT: 3.03 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

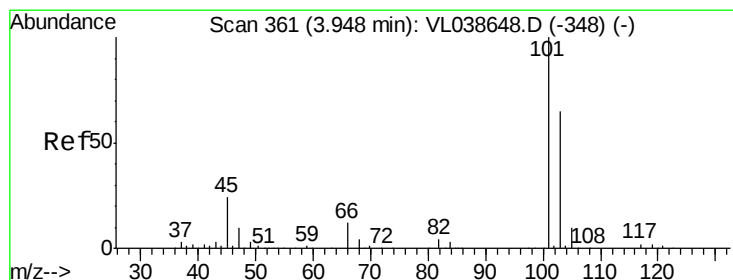
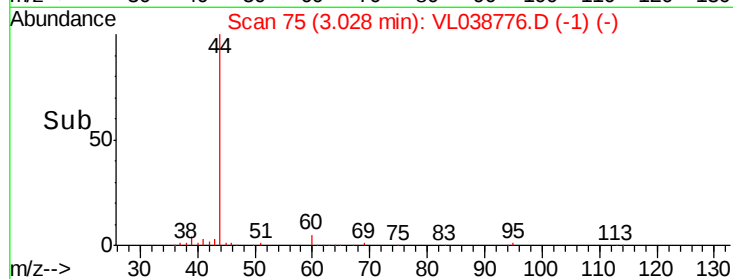
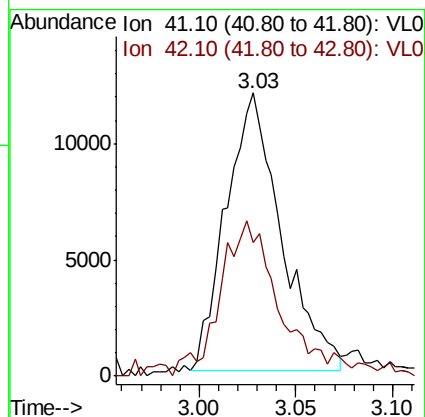
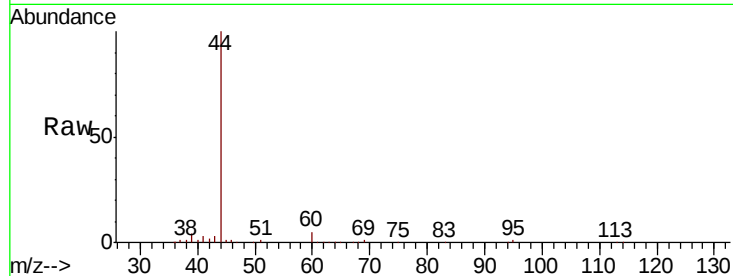
Acq: 28 Mar 2022 18:17

Tot Ion: 41 Resp: 23773

Ion Ratio Lower Upper

41 100

42 65.2 56.2 84.4



#11

Trichlorofluoromethane

Concen: 0.325 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VL038776.D

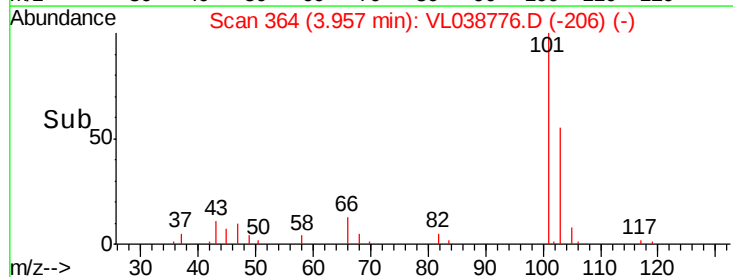
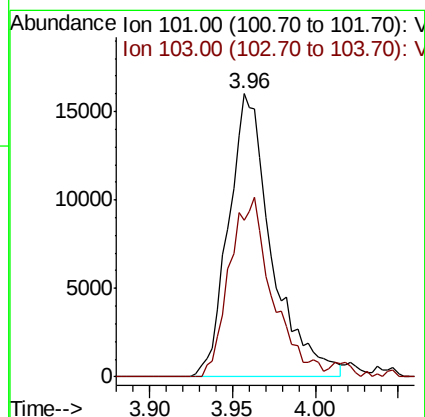
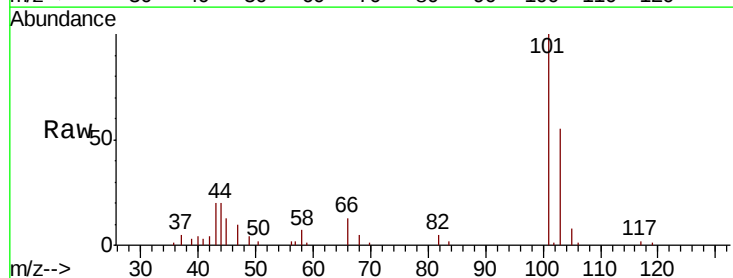
Acq: 28 Mar 2022 18:17

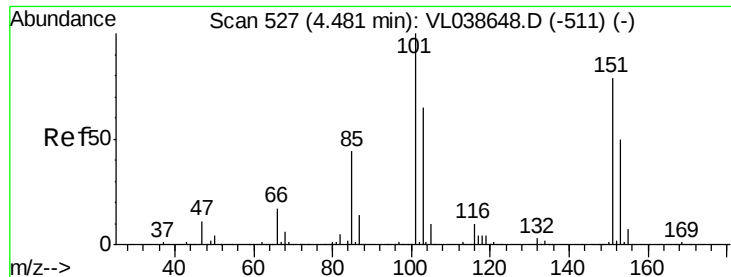
Tgt Ion:101 Resp: 28974

Ion Ratio Lower Upper

101 100

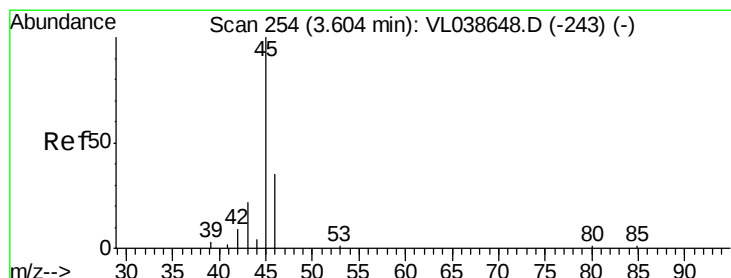
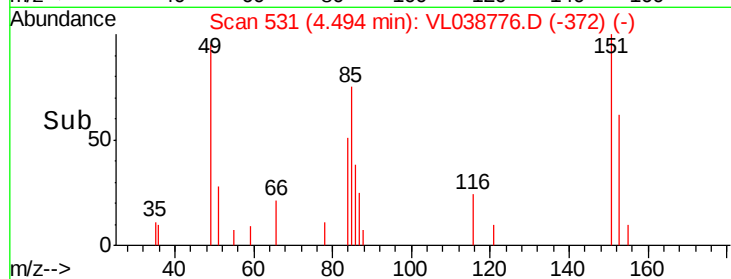
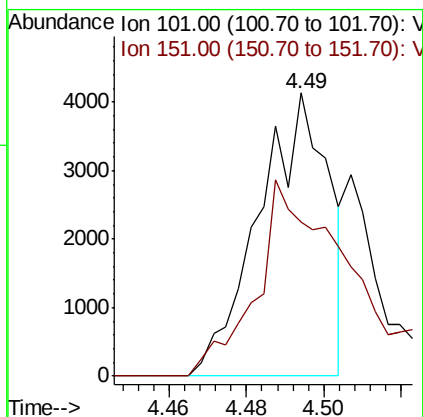
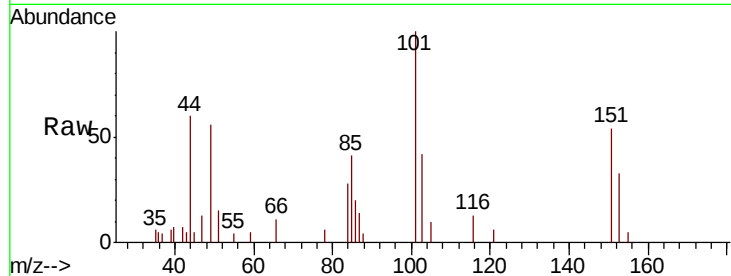
103 55.2 51.9 77.9





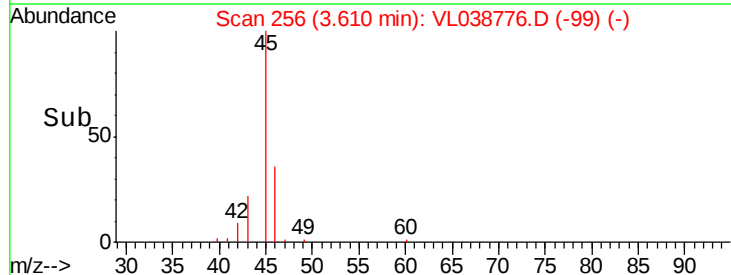
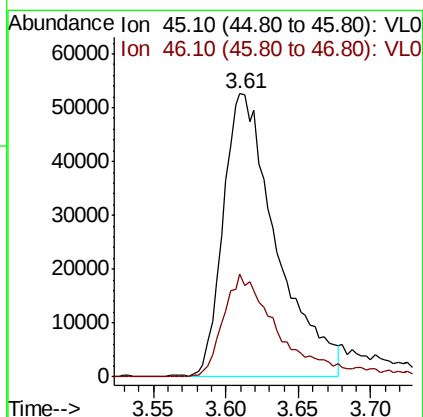
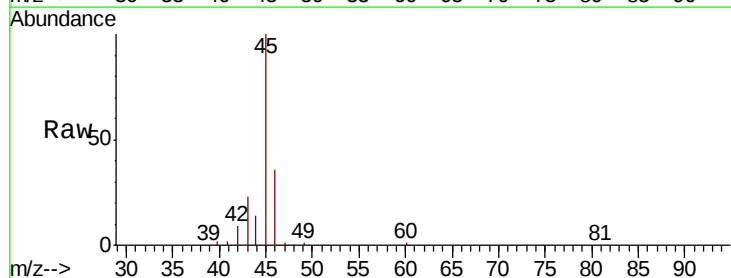
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.076 ppbv
 RT: 4.49
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 V-5DUP
 Acq: 28 Mar 2022 18:17

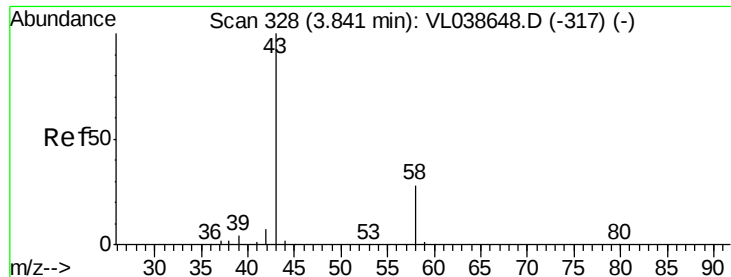
Tot Ion: 101 Resp: 5202
 Ion Ratio Lower Upper
 101 100
 151 93.6 62.9 94.3



#13
 Ethanol
 Concen: 31.832 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T. 0.01 min
 Lab File: VL038776.D
 Acq: 28 Mar 2022 18:17

Tgt Ion: 45 Resp: 134395
 Ion Ratio Lower Upper
 45 100
 46 38.6 15.1 60.5





#15

Acetone

Concen: 3.617 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

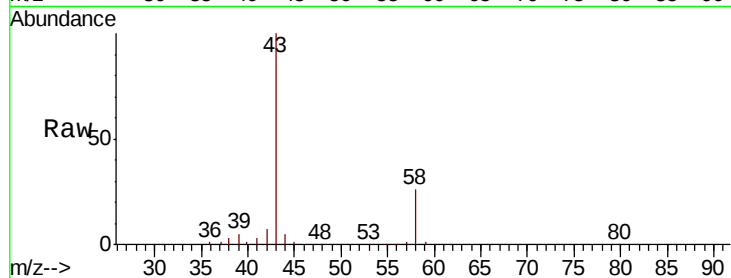
Acq: 28 Mar 2022 18:17

Tot Ion: 43 Resp: 234290

Ion Ratio Lower Upper

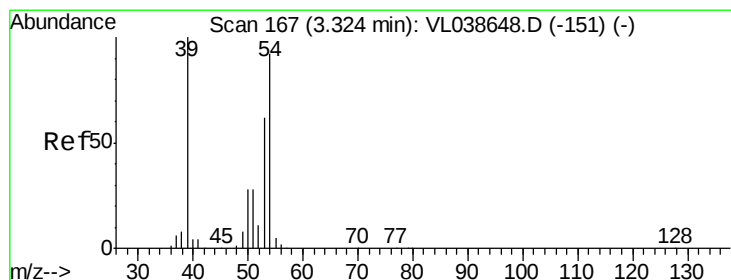
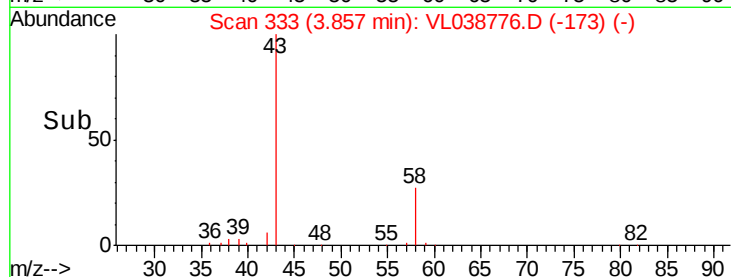
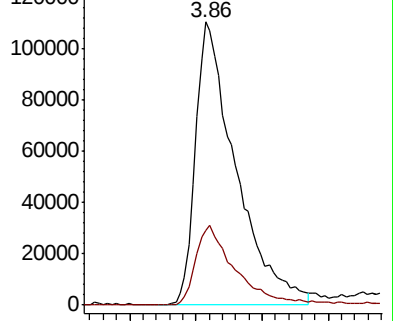
43 100

58 29.1 23.3 34.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.040 ppbv

RT: 3.33 min Scan# 168

Delta R.T. 0.00 min

Lab File: VL038776.D

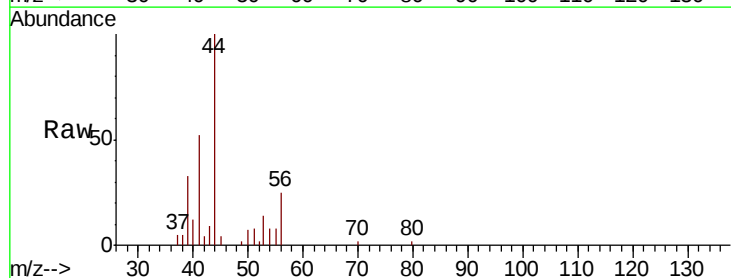
Acq: 28 Mar 2022 18:17

Tgt Ion: 39 Resp: 1463

Ion Ratio Lower Upper

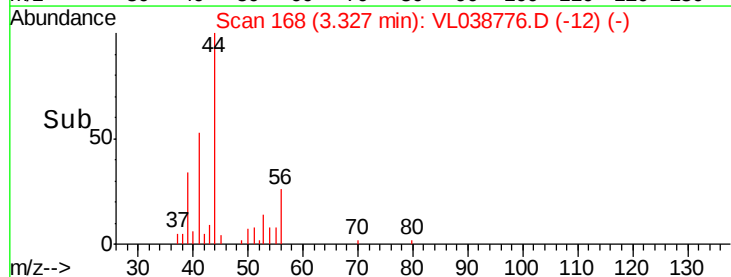
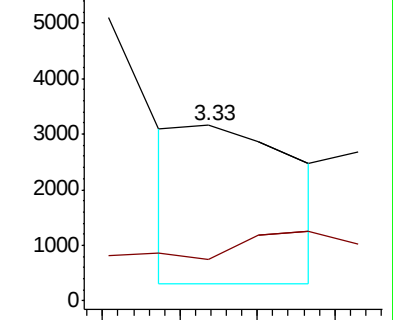
39 100

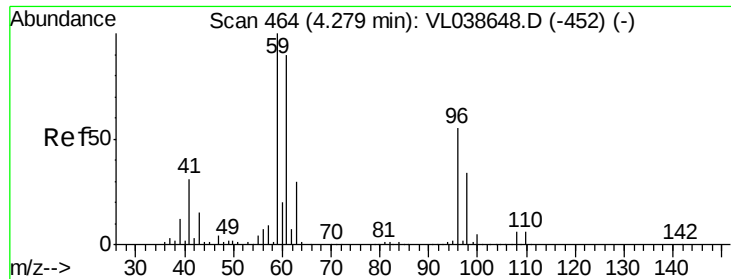
54 207.2 69.1 103.7#



Abundance Ion 39.10 (38.80 to 39.80): VL0

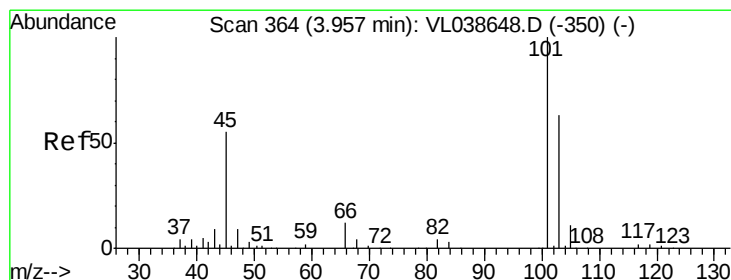
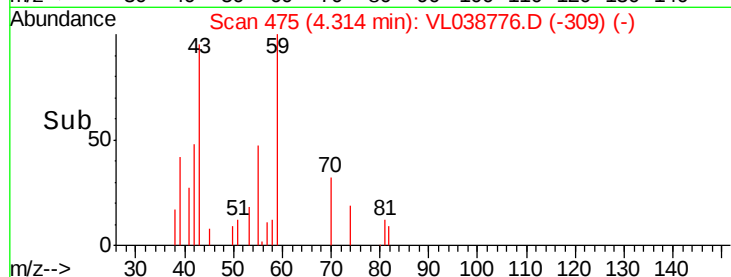
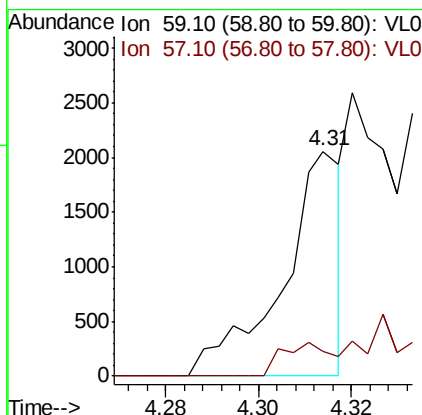
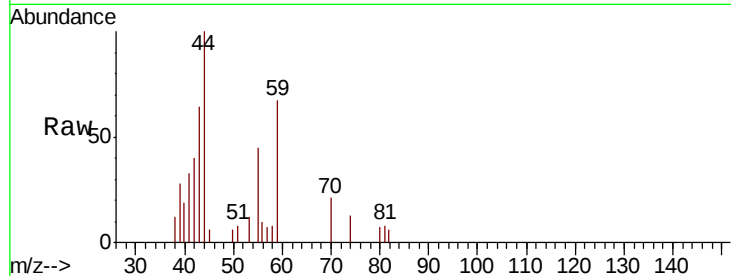
Ion 54.10 (53.80 to 54.80): VL0





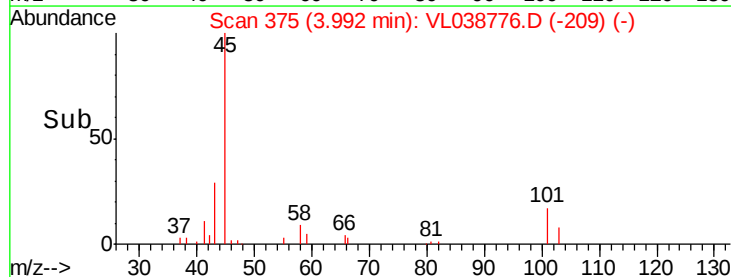
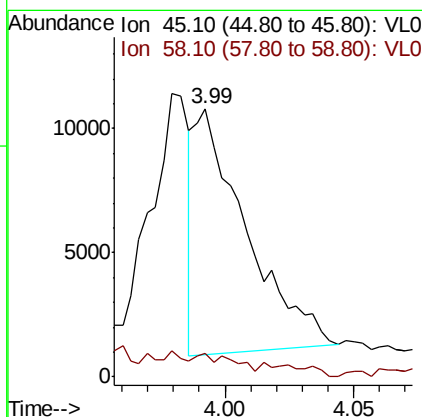
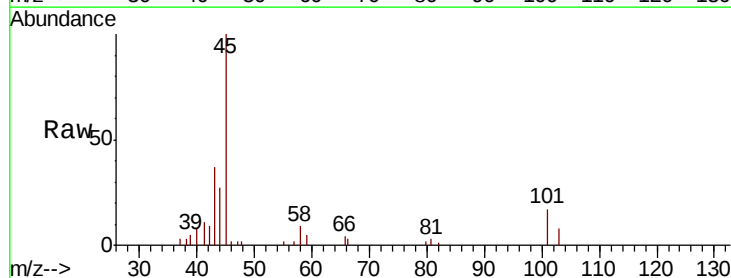
#17
tert-Butyl alcohol
Concen: 0.032 ppbv
RT: 4.31
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Mar 2022 18:17

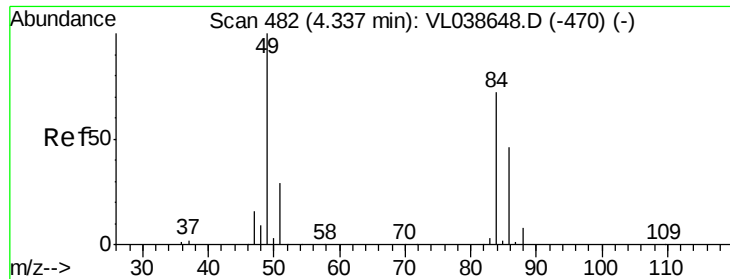
Tot Ion: 59 Resp: 1821
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#19
Isopropyl Alcohol
Concen: 0.382 ppbv
RT: 3.99 min Scan# 375
Delta R.T. 0.04 min
Lab File: VL038776.D
Acq: 28 Mar 2022 18:17

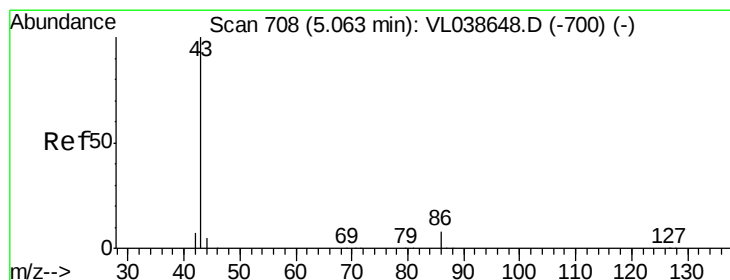
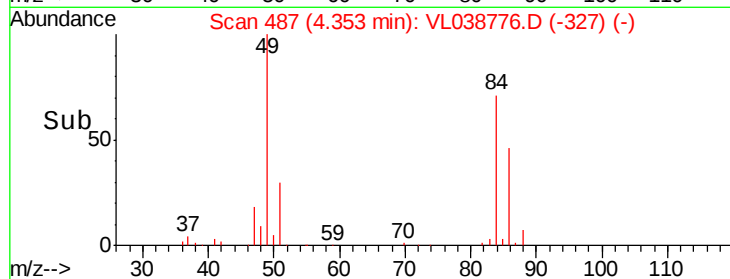
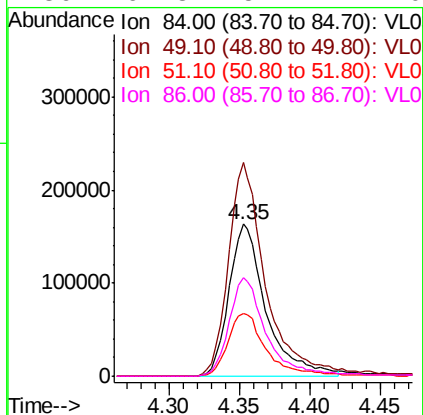
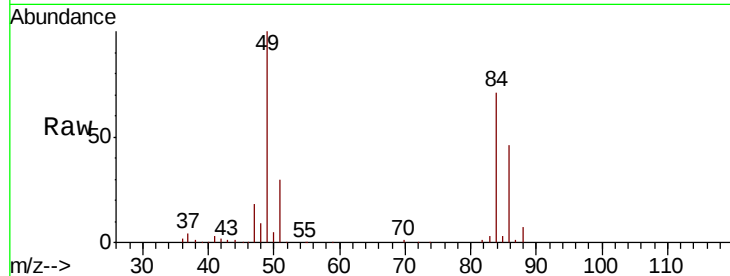
Tgt Ion: 45 Resp: 13721
Ion Ratio Lower Upper
45 100
58 0.0 2.3 3.5#





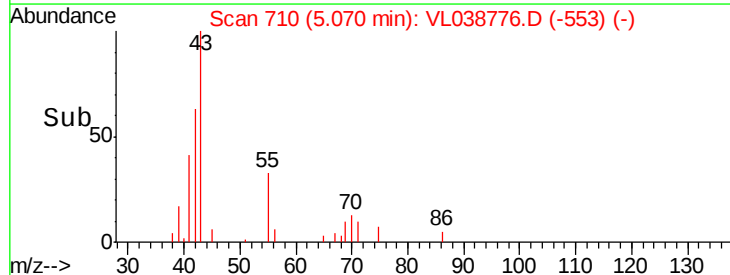
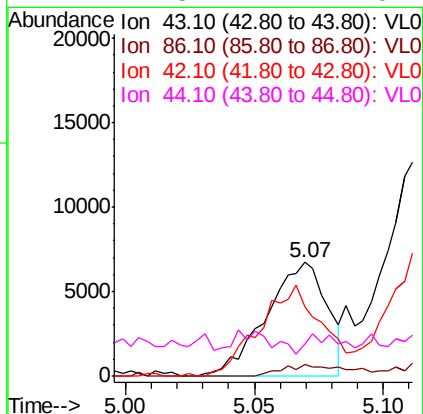
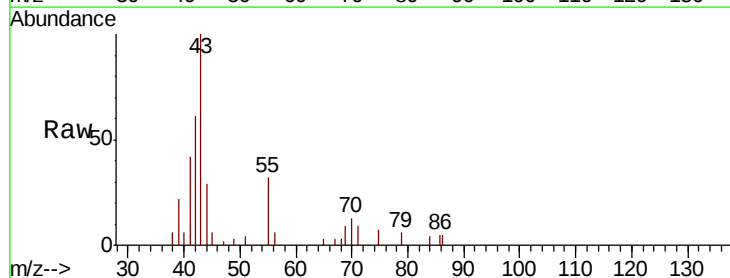
#20
Methvlene Chloride
Concen: 11.000 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Mar 2022 18:17

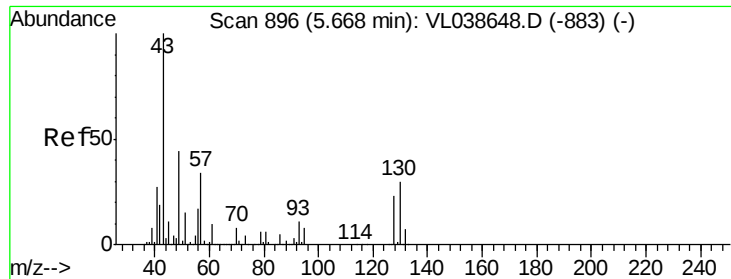
Tot Ion: 84 Resp: 300096
Ion Ratio Lower Upper
84 100
49 140.4 111.2 166.8
51 41.4 32.8 49.2
86 64.8 51.4 77.0



#23
Vinyl Acetate
Concen: 0.176 ppbv
RT: 5.07 min Scan# 710
Delta R.T. 0.01 min
Lab File: VL038776.D
Acq: 28 Mar 2022 18:17

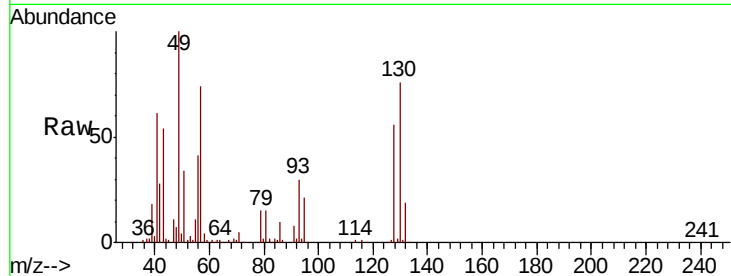
Tgt Ion: 43 Resp: 11024
Ion Ratio Lower Upper
43 100
86 10.3 5.6 8.4#
42 58.2 6.8 10.2#
44 2.8 4.2 6.2#





#25
Ethyl Acetate
Concen: 0.966 ppbv
RT: 5.69 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Mar 2022 18:17

Tot Ion:	43	Resp:	157462
Ion	Ratio	Lower	Upper
43	100		
45	7.3	8.2	12.4#
61	1.8	8.3	12.5#
70	2.6	5.6	8.4#



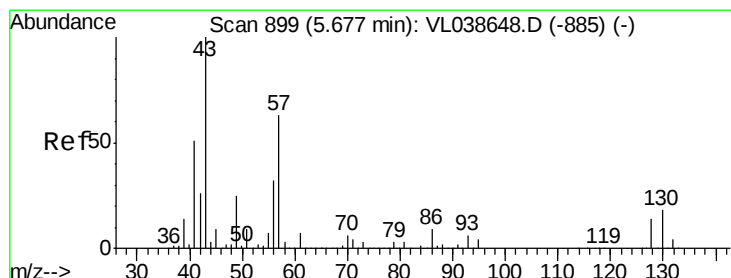
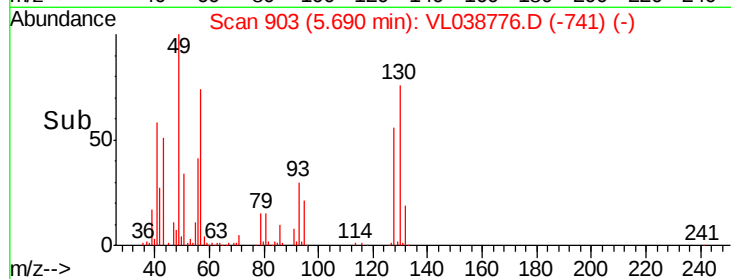
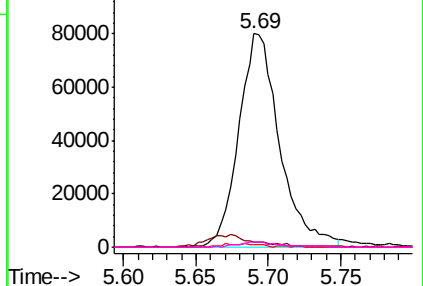
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

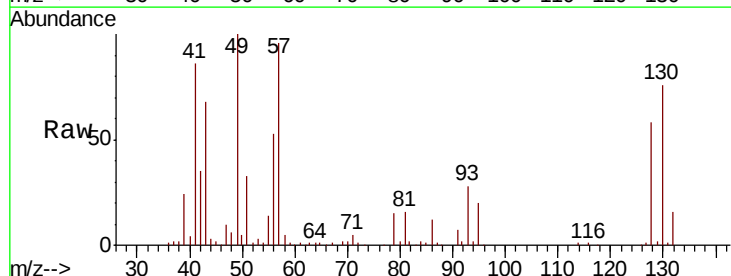
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 2.966 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.02 min
Lab File: VL038776.D
Acq: 28 Mar 2022 18:17

Tgt Ion:	57	Resp:	216518
Ion	Ratio	Lower	Upper
57	100		
41	88.2	67.0	100.4
43	75.4	184.2	276.2#
56	57.5	42.6	64.0



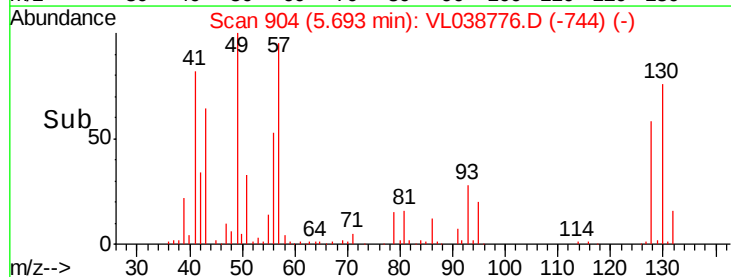
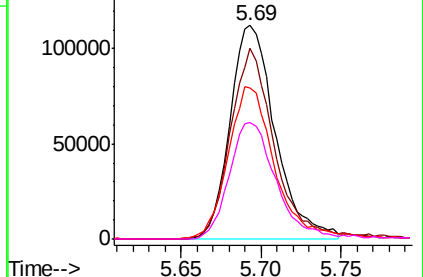
Abundance

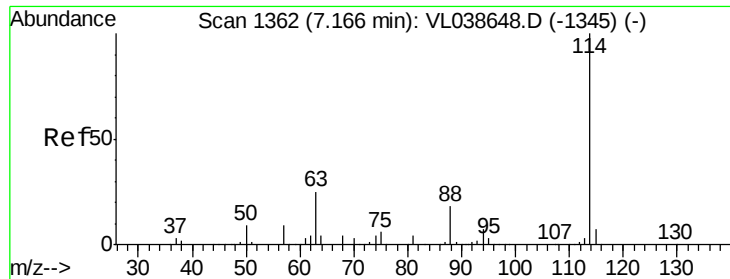
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

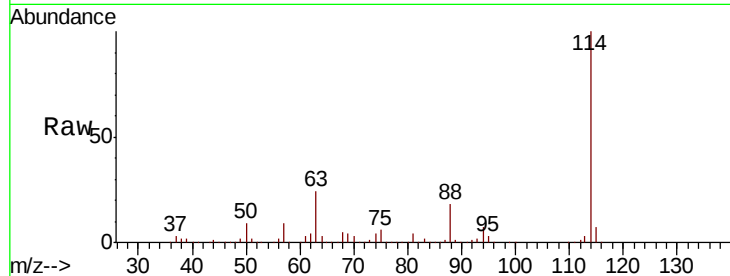
Ion 56.10 (55.80 to 56.80): VL0



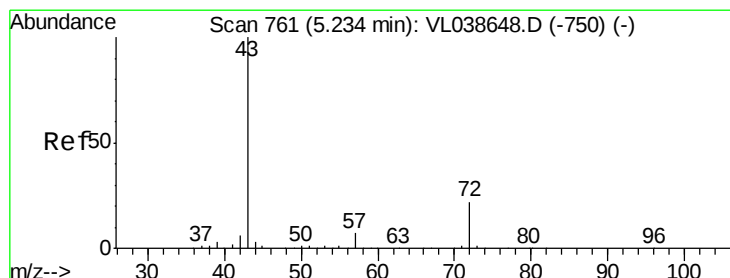
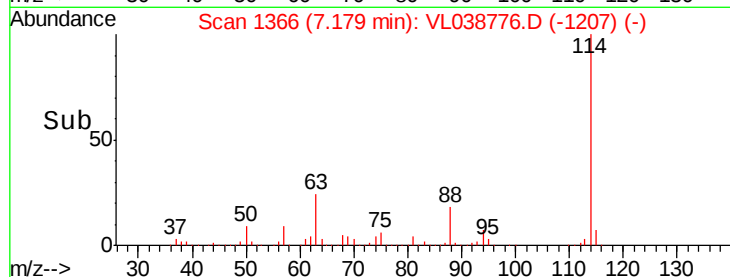
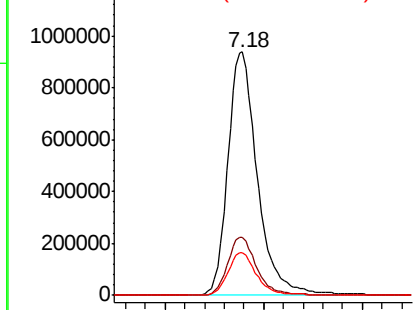


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 V-5DUP
 Acq: 28 Mar 2022 18:17

Tot Ion:114 Resp: 1961043
 Ion Ratio Lower Upper
 114 100
 63 23.8 19.4 29.0
 88 17.3 13.9 20.9

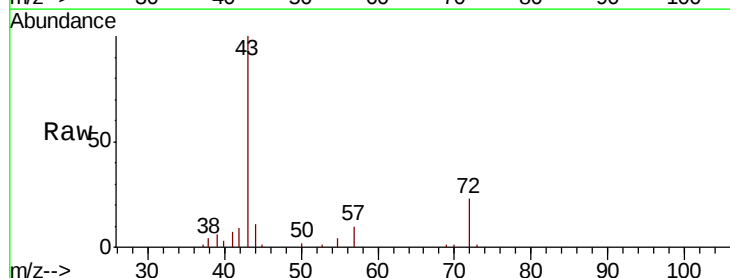


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

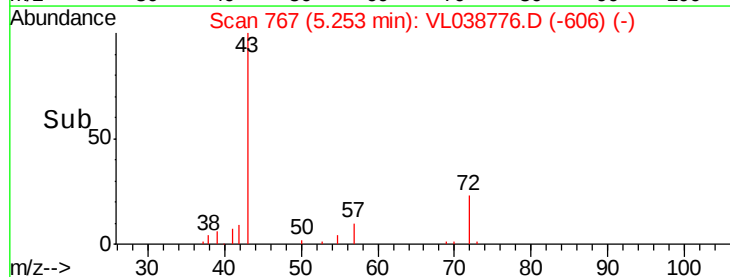
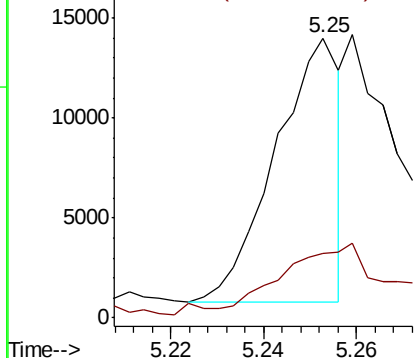


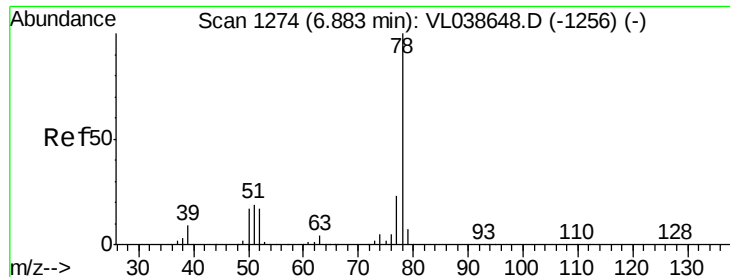
#34
 2-Butanone
 Concen: 0.166 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.02 min
 Lab File: VL038776.D
 Acq: 28 Mar 2022 18:17

Tgt Ion: 43 Resp: 12846
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.8 26.8#



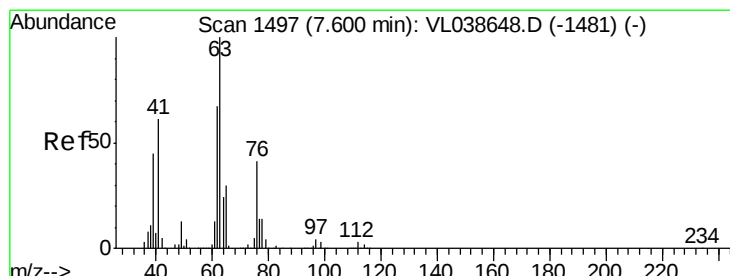
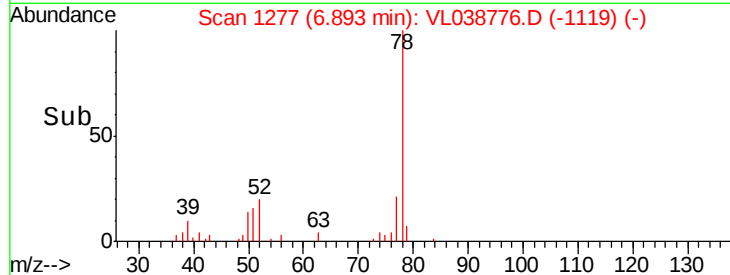
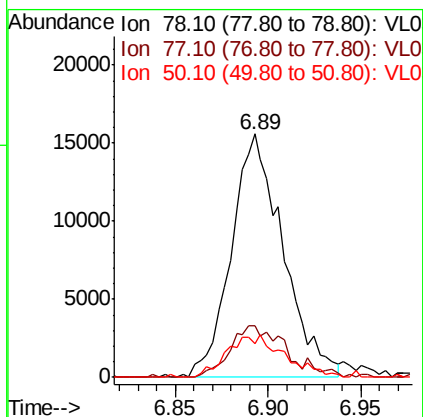
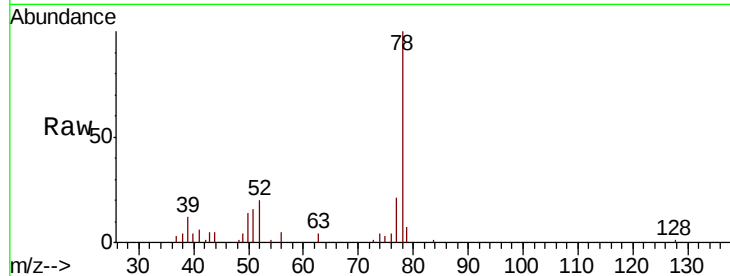
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





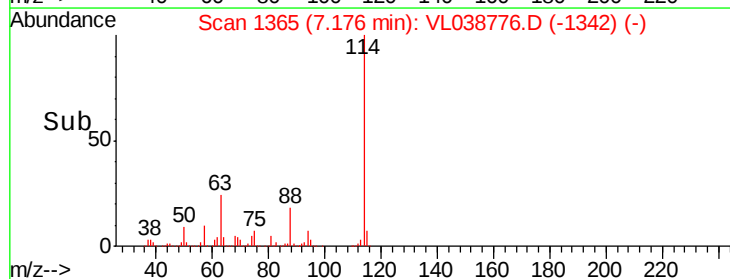
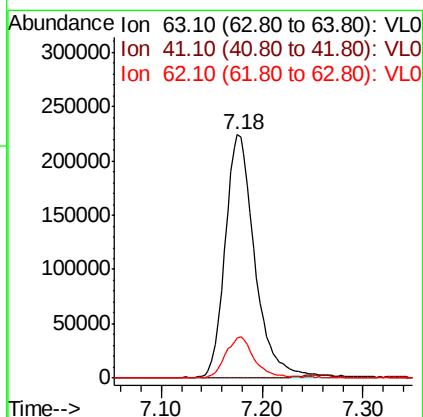
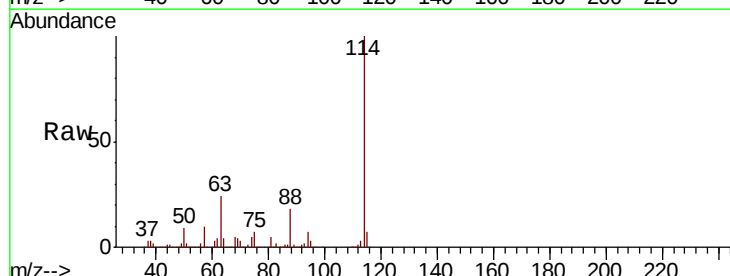
#36
Benzene
Concen: 0.200 ppbv
RT: 6.89
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Mar 2022 18:17

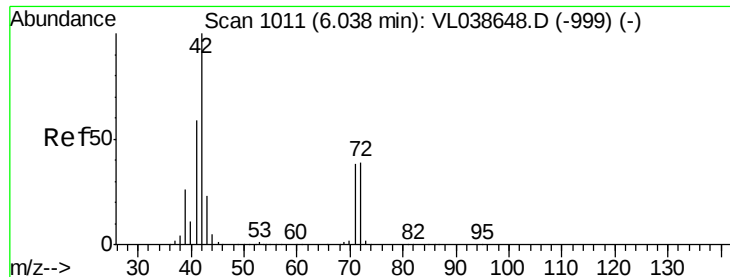
Tot Ion	78	Resp	30249
Ion Ratio	Lower	Upper	
78	100		
77	21.4	18.1	27.1
50	13.9	13.6	20.4



#39
1,2-Dichloropropane
Concen: 7.810 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.42 min
Lab File: VL038776.D
Acq: 28 Mar 2022 18:17

Tgt Ion	63	Resp	462078
Ion Ratio	Lower	Upper	
63	100		
41	0.0	49.0	73.6#
62	16.6	53.9	80.9#





#41

Tetrahydrofuran

Concen: 1.402 ppbv

RT: 5.69 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

V-5DUP

Acq: 28 Mar 2022 18:17

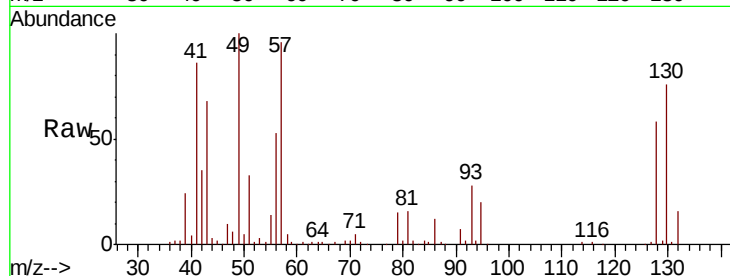
Tot Ion: 42 Resp: 80991

Ion Ratio Lower Upper

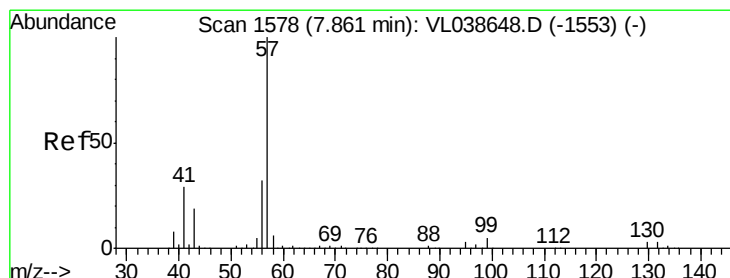
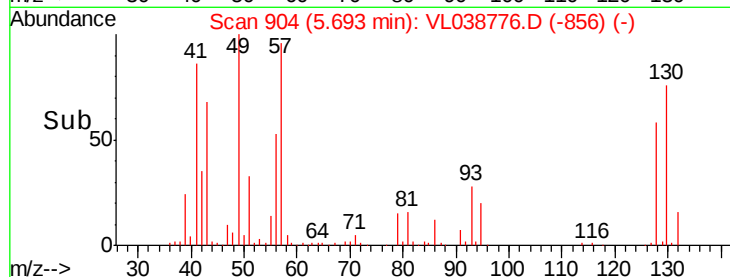
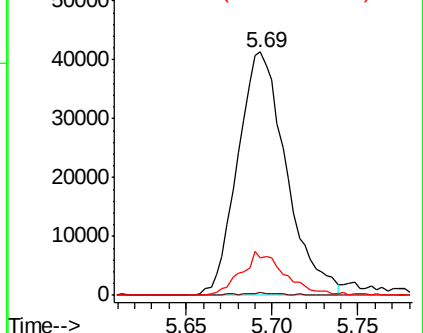
42 100

72 1.1 32.5 48.7#

71 16.2 31.4 47.2#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.074 ppbv

RT: 7.87 min Scan# 1581

Delta R.T. 0.01 min

Lab File: VL038776.D

Acq: 28 Mar 2022 18:17

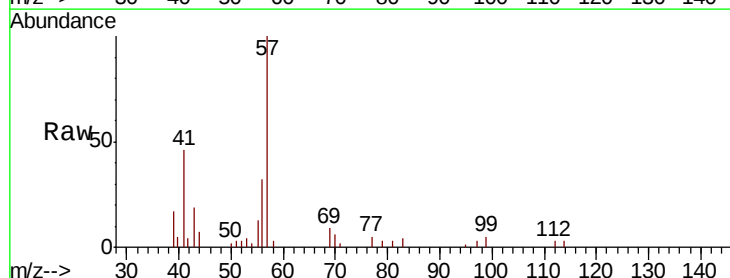
Tgt Ion: 57 Resp: 18928

Ion Ratio Lower Upper

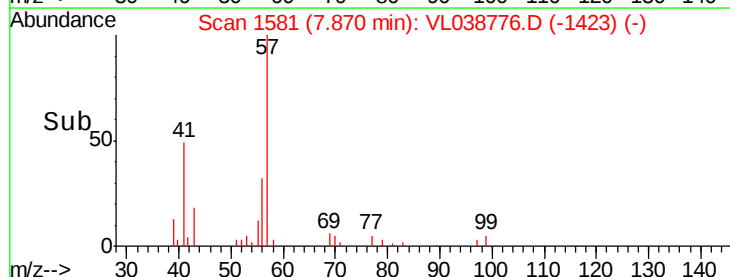
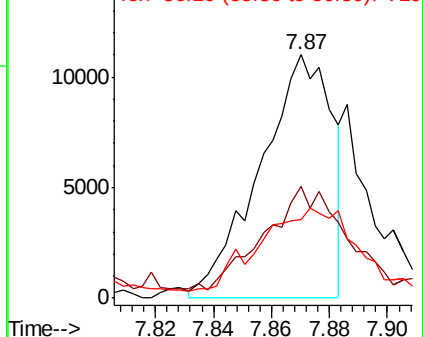
57 100

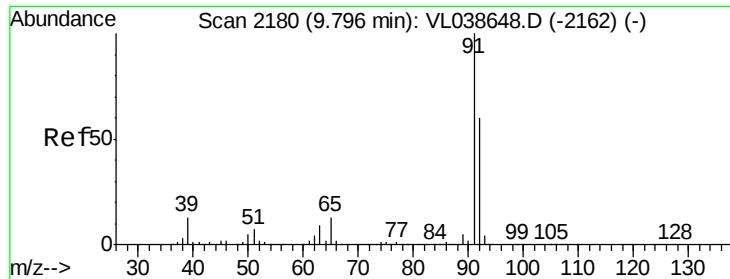
41 64.1 23.0 34.4#

56 57.1 25.3 37.9#



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





#53

Toluene

Concen: 0.628 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

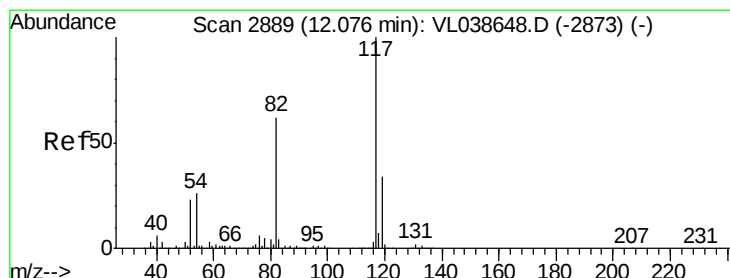
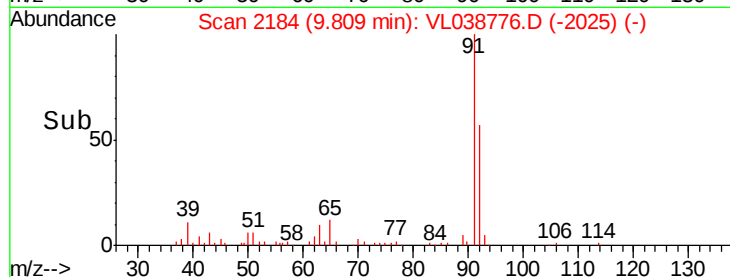
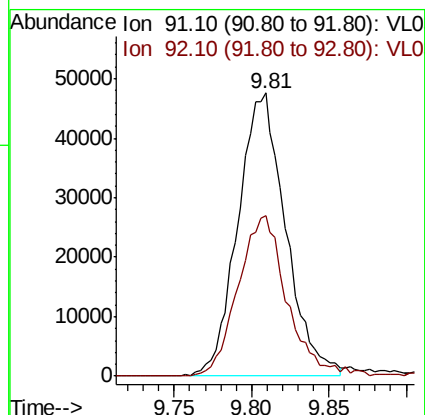
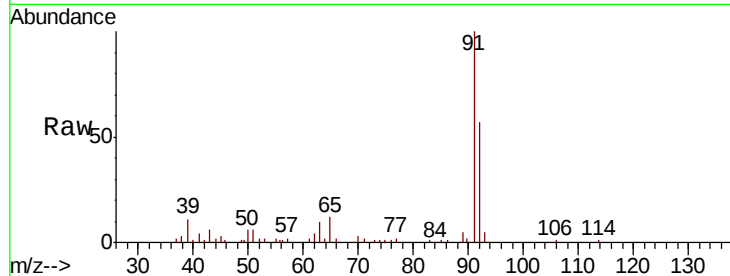
Acq: 28 Mar 2022 18:17

Tot Ion: 91 Resp: 102063

Ion Ratio Lower Upper

91 100

92 59.0 48.7 73.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. 0.01 min

Lab File: VL038776.D

Acq: 28 Mar 2022 18:17

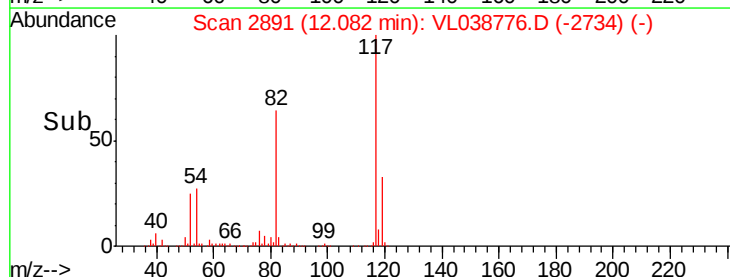
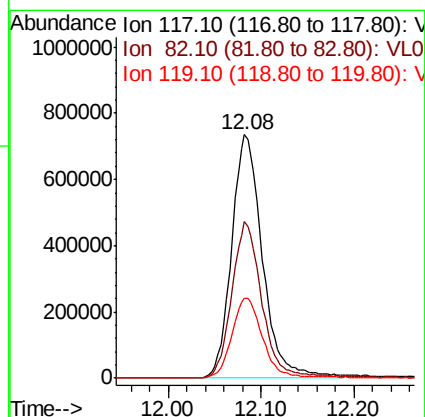
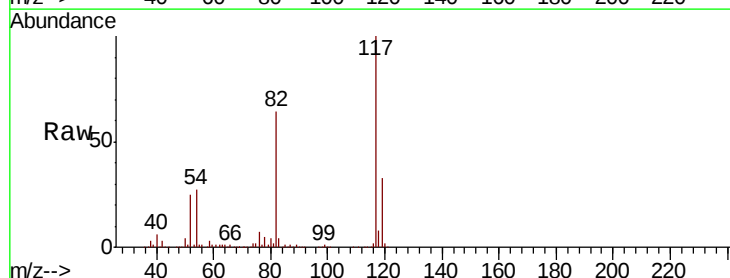
Tgt Ion: 117 Resp: 1692227

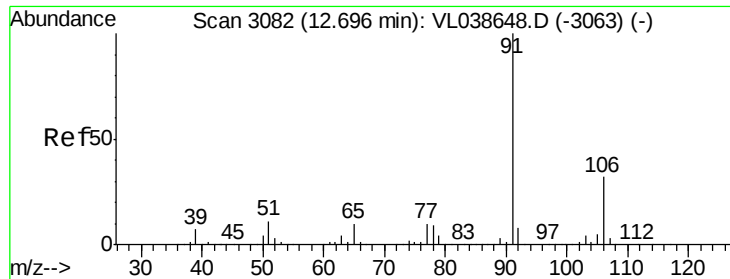
Ion Ratio Lower Upper

117 100

82 64.3 51.6 77.4

119 33.5 26.9 40.3





#58

Ethyl Benzene

Concen: 0.031 ppbv

RT: 12.71 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

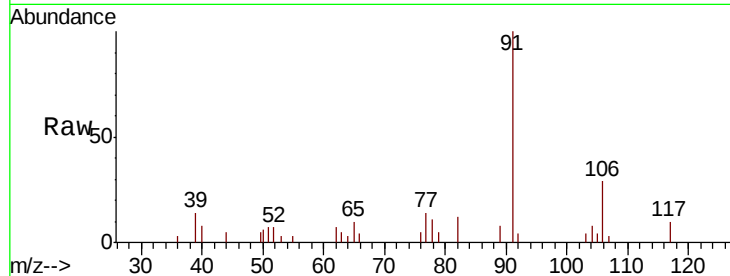
Acq: 28 Mar 2022 18:17

Tot Ion: 91 Resp: 6186

Ion Ratio Lower Upper

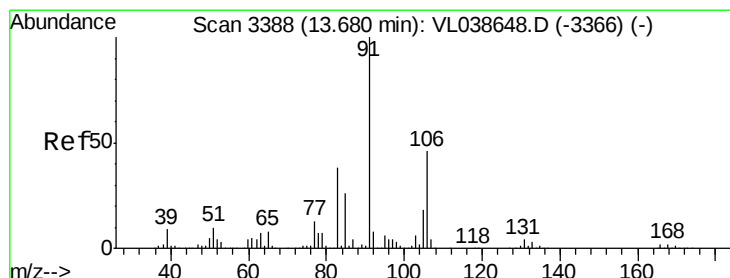
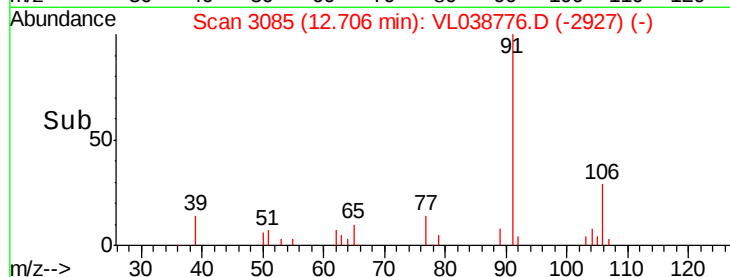
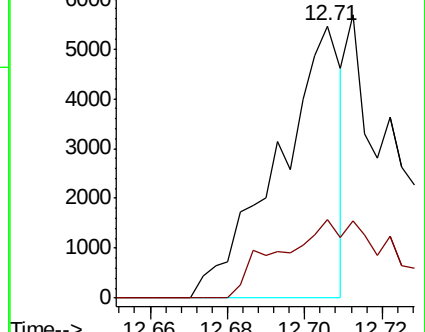
91 100

106 28.7 25.4 38.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.057 ppbv

RT: 13.69 min Scan# 3391

Delta R.T. 0.01 min

Lab File: VL038776.D

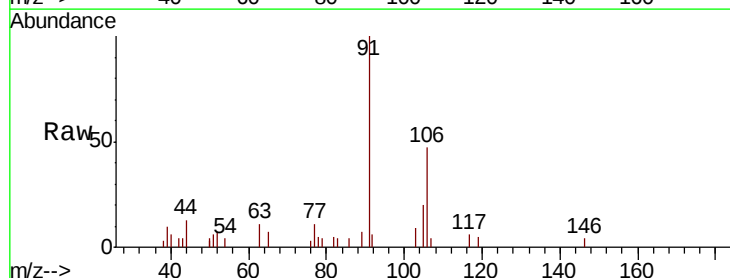
Acq: 28 Mar 2022 18:17

Tgt Ion: 91 Resp: 9396

Ion Ratio Lower Upper

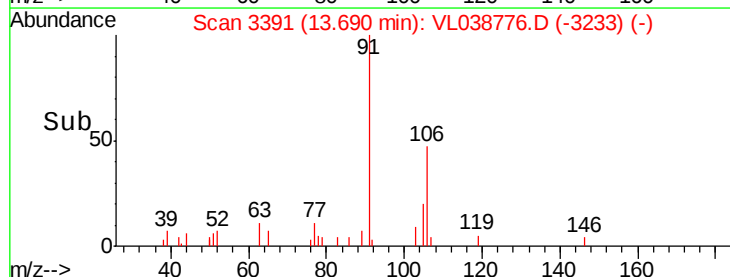
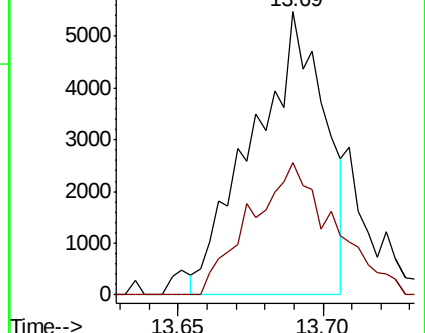
91 100

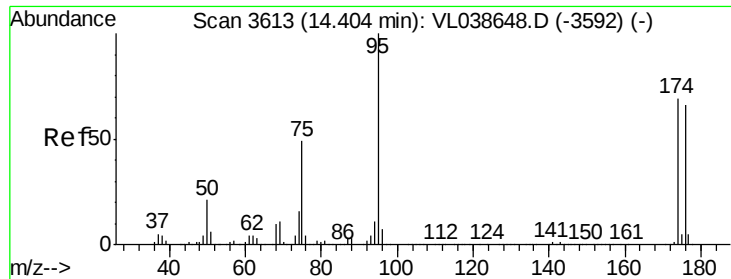
106 54.5 23.5 70.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.706 ppbv

RT: 14.41 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Mar 2022 18:17

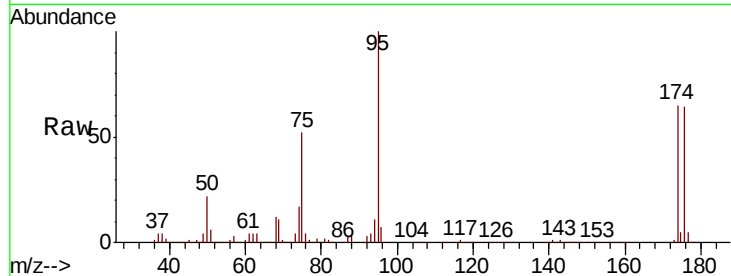
Tot Ion: 95 Resp: 1259322

Ion Ratio Lower Upper

95 100

174 70.4 56.1 84.1

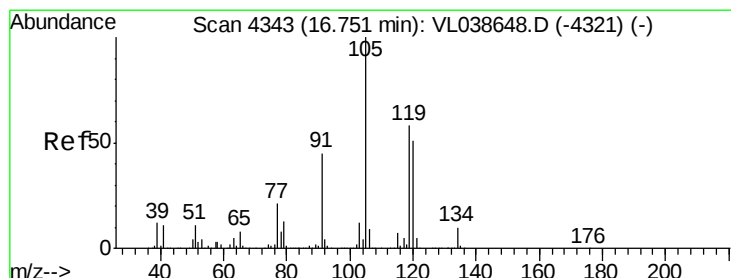
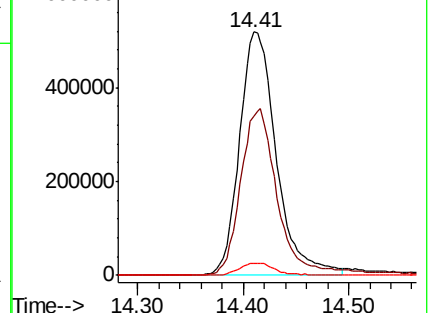
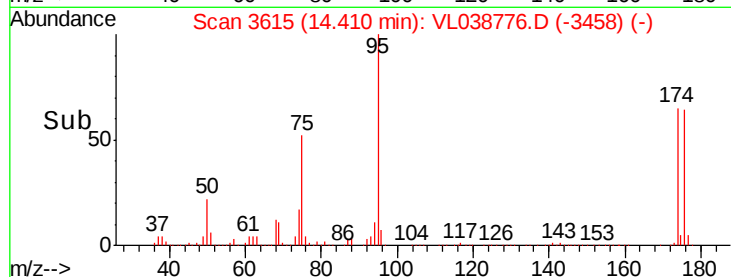
175 4.9 4.2 6.2



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#74

1,2,4-Trimethylbenzene

Concen: 0.045 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. 0.01 min

Lab File: VL038776.D

Acq: 28 Mar 2022 18:17

Tgt Ion: 105 Resp: 8671

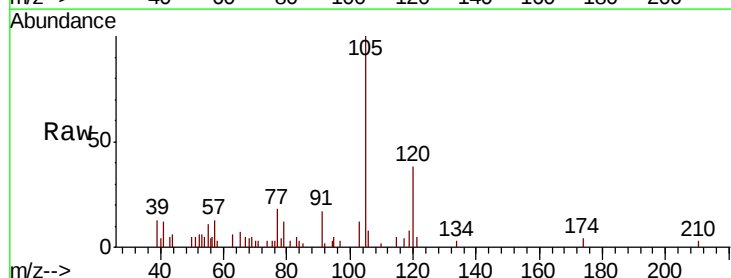
Ion Ratio Lower Upper

105 100

120 35.1 40.5 60.7#

91 15.6 35.9 53.9#

77 19.7 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

