

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040722\
 Data File : VL038867.D
 Acq On : 8 Apr 2022 9:46
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Quant Time: Apr 09 14:46:49 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL040522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
 QLast Update : Wed Apr 06 06:12:53 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	979768	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.20	114	2674409	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.11	117	3224376	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1997031	8.17	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	81.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.07	85	2174442	15.65	ppbv	96
3) Chlorodifluoromethane	3.01	51	1370329	11.46	ppbv	99
4) Chloromethane	3.16	50	679967	10.98	ppbv	97
5) Vinyl Chloride	3.28	62	638901	11.17	ppbv	99
6) Bromomethane	3.50	94	323624	11.69	ppbv	97
7) Chloroethane	3.58	64	210846	11.05	ppbv	96
8) Dichlorotetrafluoroethane	3.21	85	1511239	11.64	ppbv	96
9) Propene	3.03	41	666788	10.54	ppbv	95
10) Heptane	8.15	43	1749117	10.98	ppbv	99
11) Trichlorofluoromethane	3.97	101	1410553	12.63	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.51	101	1050122	12.28	ppbv	95
13) Ethanol	3.62	45	20444	5.32	ppbv #	100
14) Bromoethene	3.76	108	451248	11.99	ppbv	95
15) Acetone	3.87	43	1084200	11.11	ppbv	99
16) 1,3-Butadiene	3.35	39	624488	11.20	ppbv	98
17) tert-Butyl alcohol	4.30	59	780542	8.92	ppbv	99
18) 1,1-Dichloroethene	4.31	96	469824	12.05	ppbv	90
19) Isopropyl Alcohol	3.99	45	495688	9.94	ppbv #	100
20) Methylene Chloride	4.37	84	388404	10.98	ppbv	96
21) Allyl Chloride	4.43	41	821096	11.24	ppbv	99
22) trans-1,2-Dichloroethene	4.91	96	511614	12.96	ppbv	99
23) Vinyl Acetate	5.10	43	1106251	11.65	ppbv #	98
24) 1,1-Dichloroethane	5.03	63	996147	11.60	ppbv	99
25) Ethyl Acetate	5.70	43	2853611	11.53	ppbv	100
26) Hexane	5.71	57	1255475	11.14	ppbv	98
27) Carbon Disulfide	4.57	76	1266745	12.26	ppbv	98
28) Methyl tert-Butyl Ether	5.05	73	959793	11.03	ppbv	99
29) Chloroform	5.77	83	1889484	11.99	ppbv	99
30) Cyclohexane	7.15	84	1075575	10.83	ppbv	98
31) cis-1,2-Dichloroethene	5.57	61	1214316	11.72	ppbv	98
32) 1,1,1-Trichloroethane	6.54	97	1844986	11.62	ppbv	99
34) 2-Butanone	5.26	43	1214425	11.49	ppbv	99
35) Carbon Tetrachloride	7.04	117	1856122	11.58	ppbv	100
36) Benzene	6.91	78	2662595	10.94	ppbv	99
37) 1,2-Dichloroethane	6.33	62	1397873	12.57	ppbv	98
38) Trichloroethene	7.86	130	1049448	10.51	ppbv	97
39) 1,2-Dichloropropane	7.64	63	1035110	11.12	ppbv	96
40) 1,4-Dioxane	7.85	88	196569	6.22	ppbv #	1
41) Tetrahydrofuran	6.07	42	1134688	11.31	ppbv	99
42) Bromodichloromethane	7.82	83	2092638	11.91	ppbv	99
43) Methyl Methacrylate	8.03	69	1112479	11.94	ppbv	98

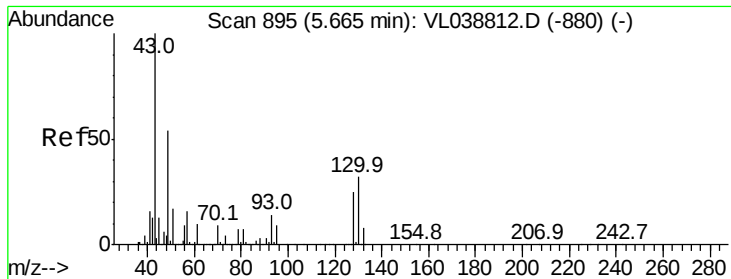
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 QLast Update : Wed Apr 06 06:12:53 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	4411795	10.71	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	1127082	11.57	ppbv	100
46) cis-1,3-Dichloropropene	8.73	75	1443448	11.24	ppbv	97
47) 1,1,2-Trichloroethane	9.50	97	1077472	11.30	ppbv	99
48) Dibromochloromethane	10.33	129	1741388	11.65	ppbv	99
49) Bromoform	13.06	173	1397454	11.81	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2772527	11.66	ppbv	100
51) 2-Hexanone	10.15	43	2120573	11.84	ppbv #	100
52) Tetrachloroethene	11.25	164	876752	10.32	ppbv	99
53) Toluene	9.83	91	3065863	10.92	ppbv	99
54) 1,2-Dibromoethane	10.63	107	1535210	11.59	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.15	131	1216024	8.61	ppbv	97
57) Chlorobenzene	12.17	112	2163283	8.19	ppbv	97
58) Ethyl Benzene	12.73	91	4180077	8.68	ppbv	94
59) m/p-Xylene	13.01	91	3743722	9.25	ppbv #	51
60) o-Xylene	13.72	91	3238856	8.55	ppbv	95
61) Styrene	13.55	104	2030037	8.80	ppbv	98
62) Isopropylbenzene	14.69	105	4692434	8.25	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.70	83	2035519	8.48	ppbv	99
64) n-propylbenzene	15.58	120	1220058	8.26	ppbv	89
65) tert-Butylbenzene	16.77	119	3973332	7.88	ppbv	95
66) Benzyl Chloride	17.01	91	565356	5.51	ppbv	94
67) sec-Butylbenzene	17.31	105	5842537	8.25	ppbv	98
69) p-Isopropyltoluene	17.67	119	4794007	8.25	ppbv	98
70) n-Butylbenzene	18.57	91	5231686	8.94	ppbv	98
71) 2-Chlorotoluene	15.47	91	3708729	8.68	ppbv	95
72) 4-Ethyltoluene	15.86	105	3945517	8.72	ppbv	98
73) 1,3,5-Trimethylbenzene	16.01	105	3516200	8.65	ppbv	95
74) 1,2,4-Trimethylbenzene	16.78	105	3622030	8.43	ppbv	98
75) 1,3-Dichlorobenzene	17.02	146	2078506	8.33	ppbv	100
76) 1,4-Dichlorobenzene	17.16	146	2005033	8.16	ppbv	99
77) 1,2-Dichlorobenzene	17.83	146	2015800	8.20	ppbv	98
78) Hexachloro-1,3-Butadiene	23.39	225	1423280	7.33	ppbv	98
79) Naphthalene	22.22	128	1218002	3.79	ppbv	97
80) Naphthalene,2-methyl-	24.98	142	565459	7.14	ppbv	98
81) 1,2,4-Trichlorobenzene	21.94	180	1547514	8.23	ppbv	99

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.69 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VSTDCCC010EC

Acq: 8 Apr 2022 9:46

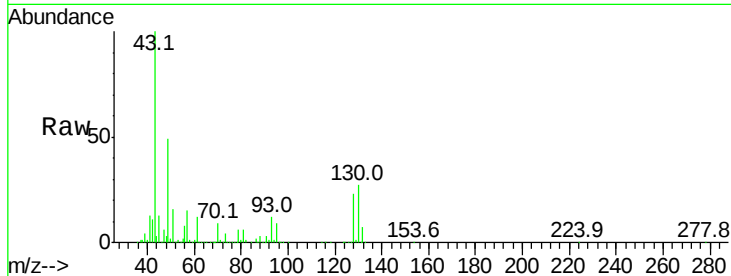
Tgt Ion: 49 Resp: 979768

Ion Ratio Lower Upper

49 100

128 48.5 24.1 72.3

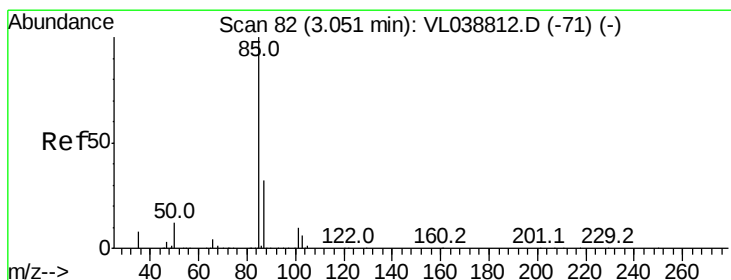
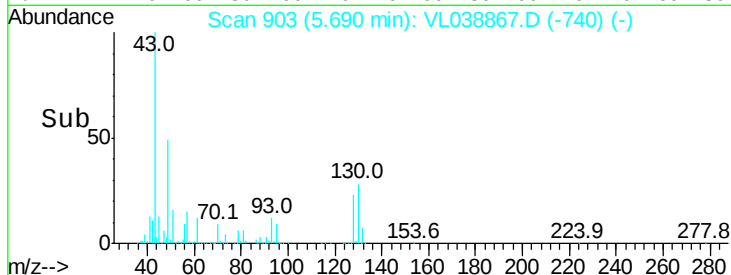
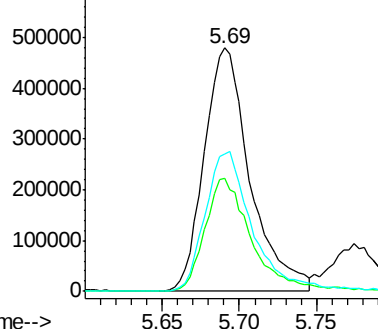
130 61.3 30.9 92.8



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



#2

Dichlorodifluoromethane

Concen: 15.65 ppbv

RT: 3.07 min Scan# 88

Delta R.T. 0.02 min

Lab File: VL038867.D

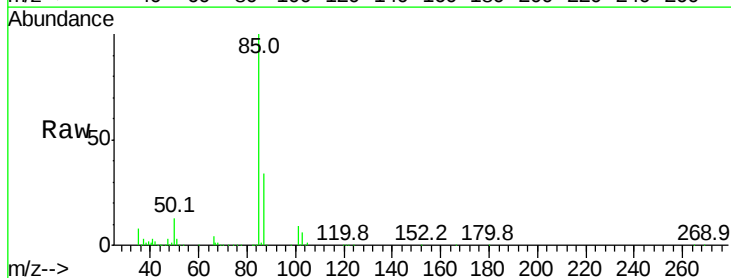
Acq: 8 Apr 2022 9:46

Tgt Ion: 85 Resp: 2174442

Ion Ratio Lower Upper

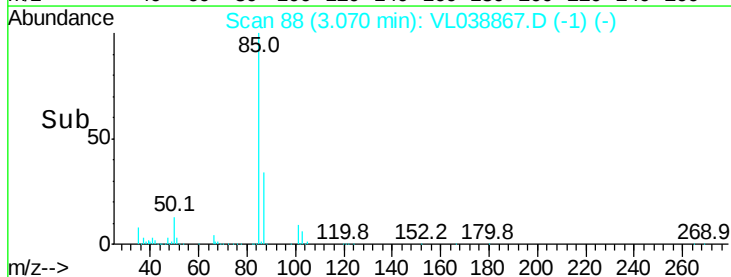
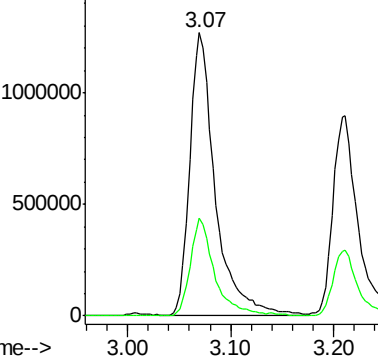
85 100

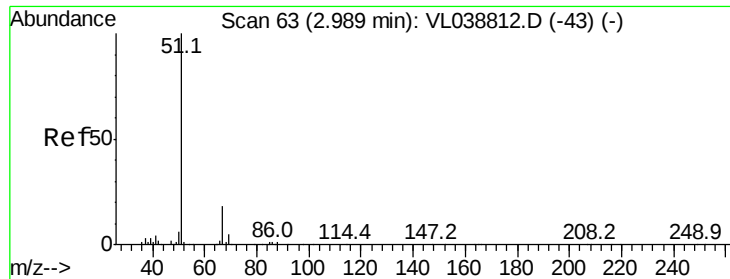
87 34.4 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 11.46 ppbv

RT: 3.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

VSTDCCC010EC

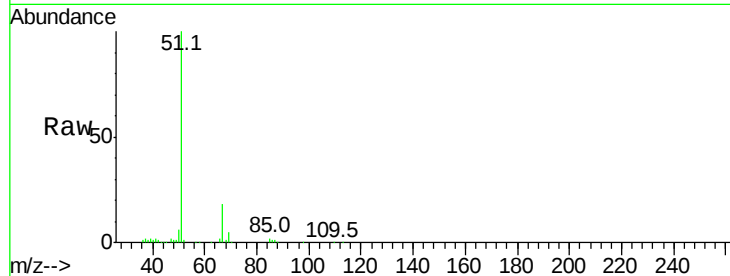
Acq: 8 Apr 2022 9:46

Tgt Ion: 51 Resp: 1370329

Ion Ratio Lower Upper

51 100

67 17.2 13.4 20.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.01

800000

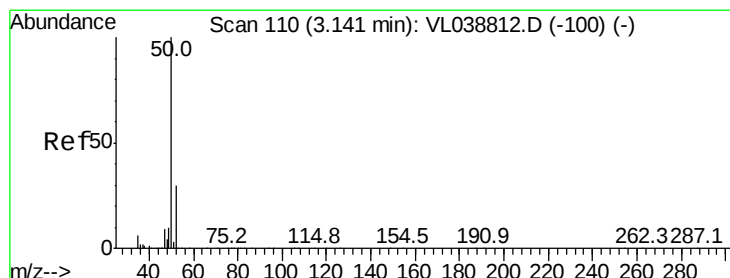
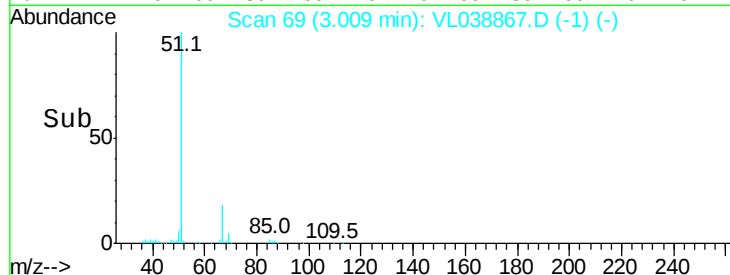
600000

400000

200000

0

Time-->



#4

Chloromethane

Concen: 10.98 ppbv

RT: 3.16 min Scan# 117

Delta R.T. 0.02 min

Lab File: VL038867.D

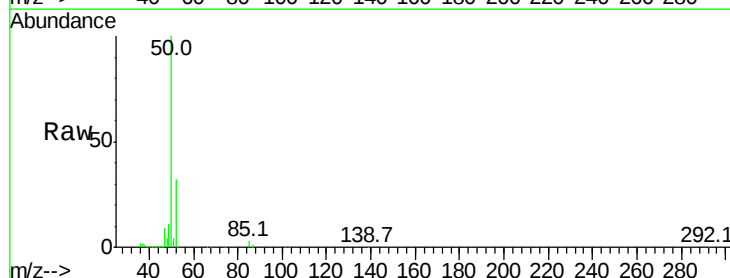
Acq: 8 Apr 2022 9:46

Tgt Ion: 50 Resp: 679967

Ion Ratio Lower Upper

50 100

52 32.3 24.3 36.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.16

400000

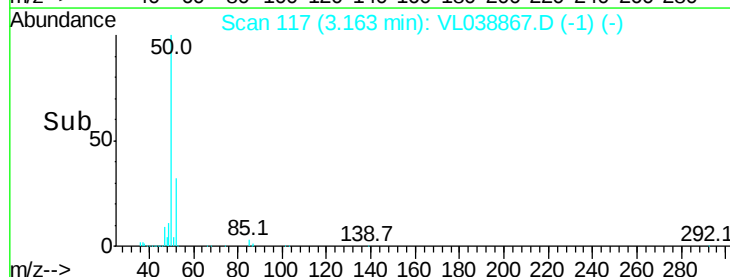
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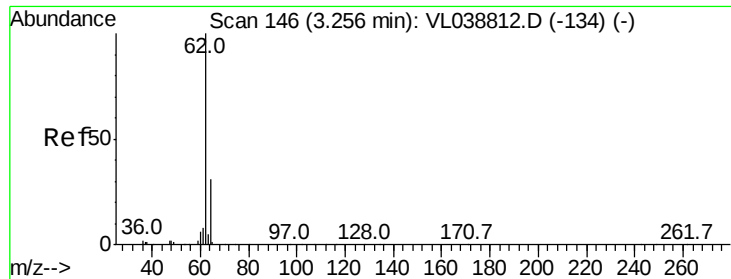
200000

100000

0

Time-->





#5

Vinyl Chloride

Concen: 11.17 ppbv

RT: 3.28 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

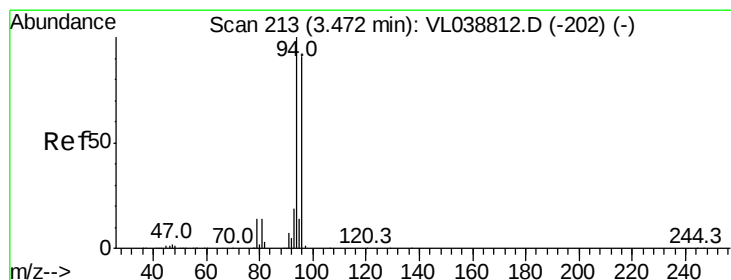
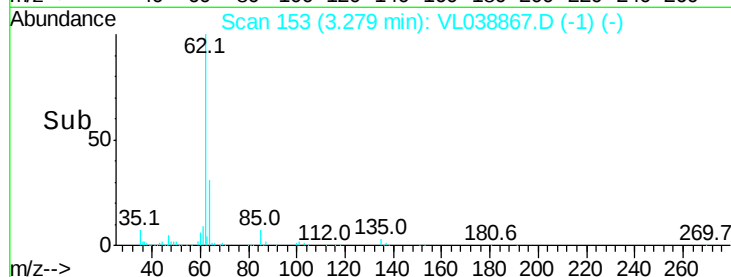
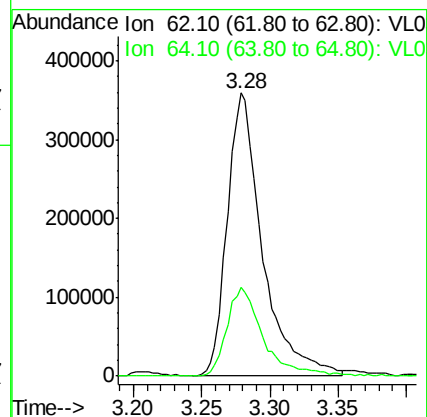
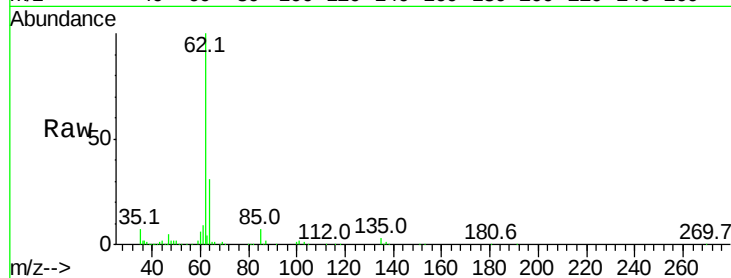
Acq: 8 Apr 2022 9:48 VSTDCCC010EC

Tgt Ion: 62 Resp: 638901

Ion Ratio Lower Upper

62 100

64 31.6 24.6 37.0



#6

Bromomethane

Concen: 11.69 ppbv

RT: 3.50 min Scan# 221

Delta R.T. 0.03 min

Lab File: VL038867.D

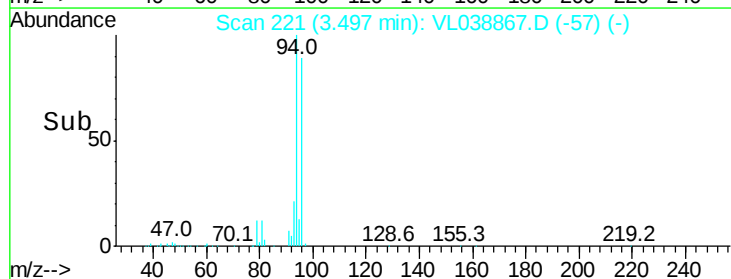
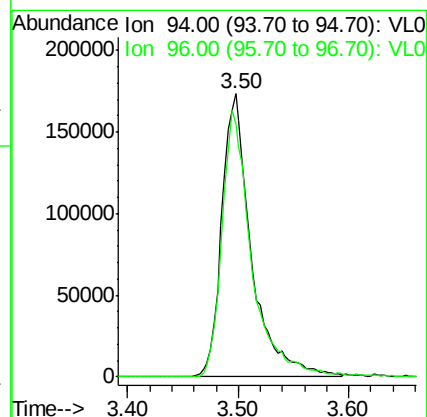
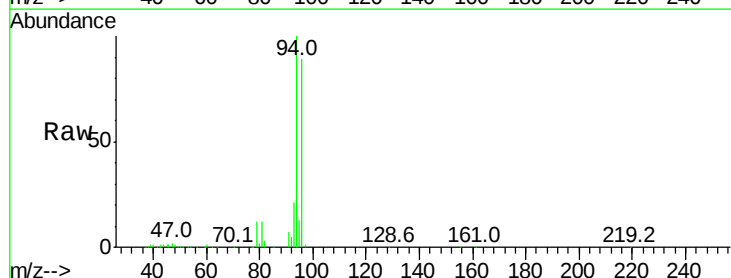
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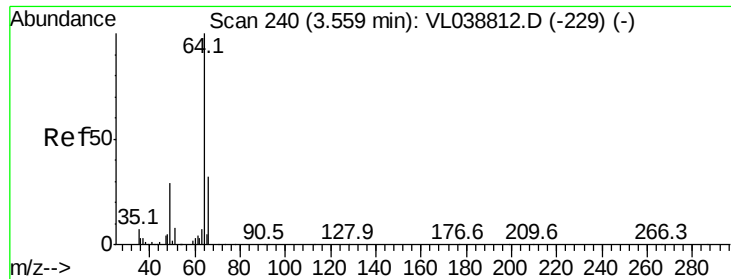
Tgt Ion: 94 Resp: 323624

Ion Ratio Lower Upper

94 100

96 89.1 73.2 109.8





#7

Chloroethane

Concen: 11.05 ppbv

RT: 3.58 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

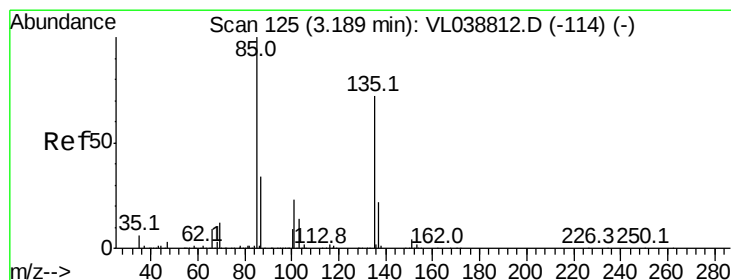
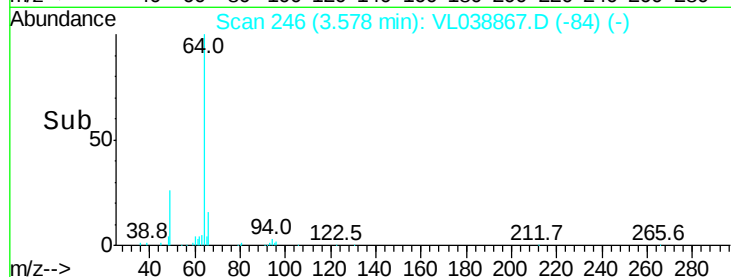
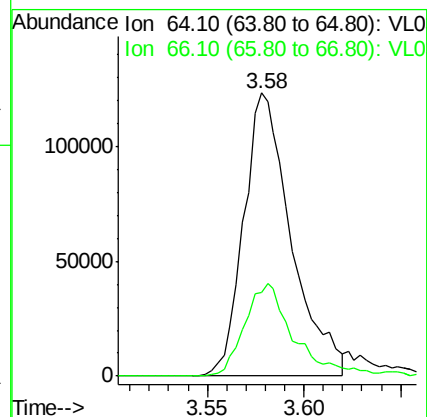
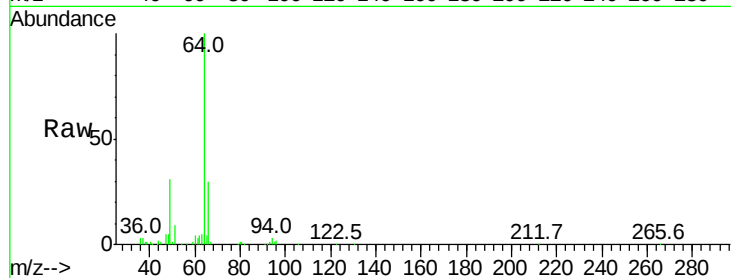
Acq: 8 Apr 2022 9:48 VSTDCCC010EC

Tgt Ion: 64 Resp: 210846

Ion Ratio Lower Upper

64 100

66 29.6 25.4 38.2



#8

Dichlorotetrafluoroethane

Concen: 11.64 ppbv

RT: 3.21 min Scan# 132

Delta R.T. 0.02 min

Lab File: VL038867.D

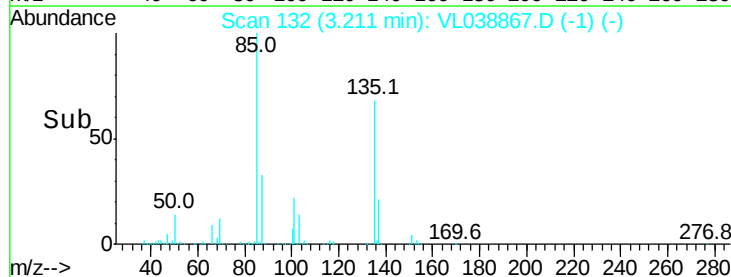
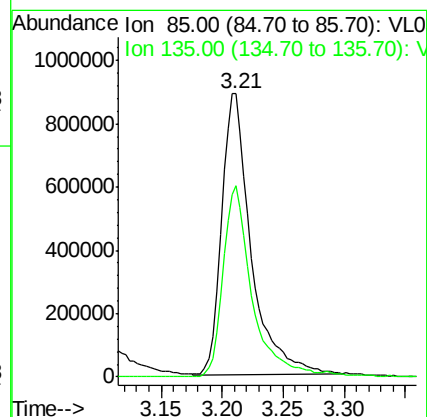
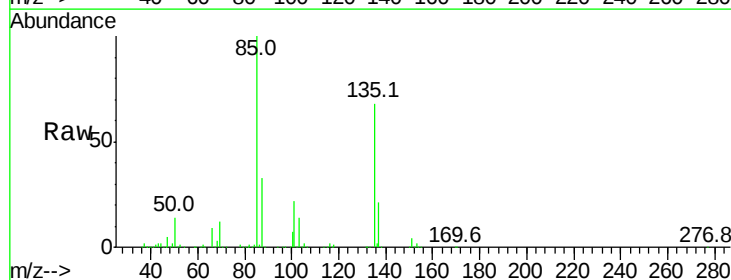
Acq: 8 Apr 2022 9:46

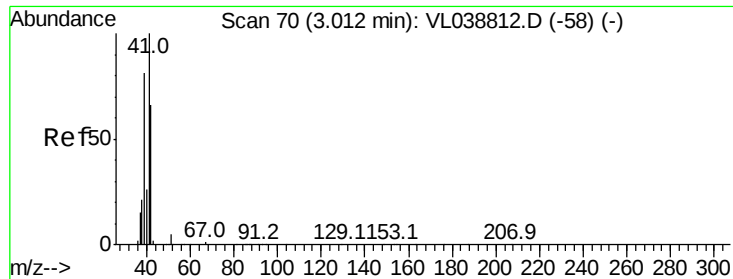
Tgt Ion: 85 Resp: 1511239

Ion Ratio Lower Upper

85 100

135 68.2 57.0 85.6





#9

Propene

Concen: 10.54 ppbv

RT: 3.03 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

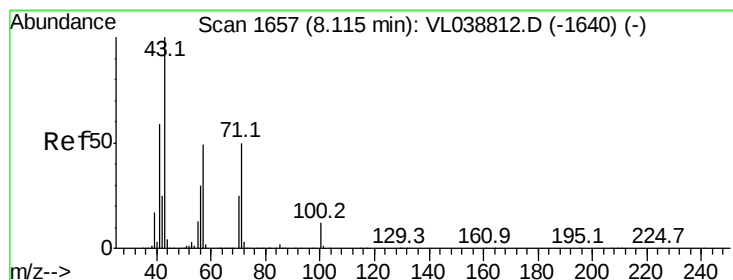
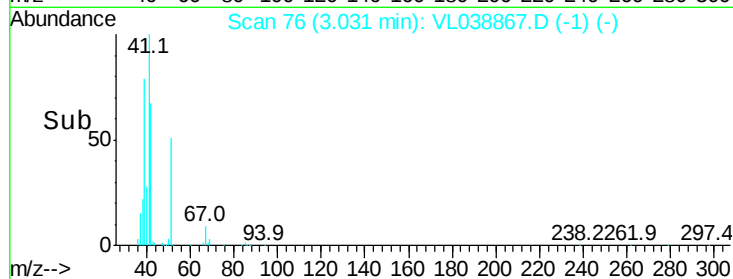
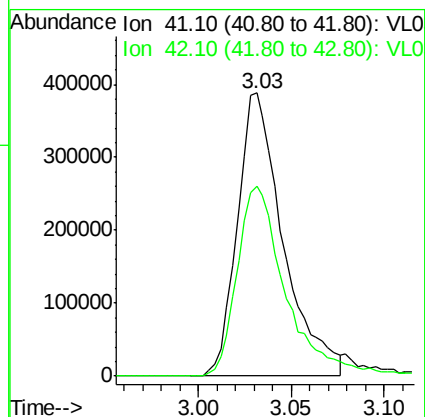
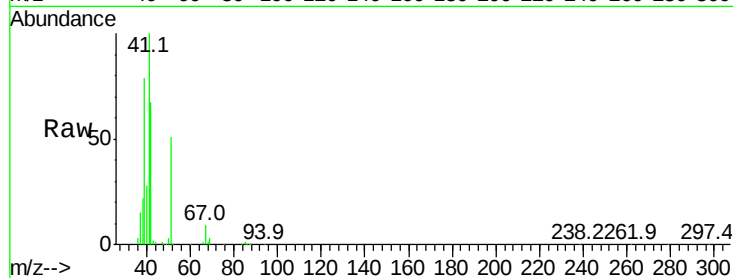
Acq: 8 Apr 2022 9:48 VSTDCCC010EC

Tgt Ion: 41 Resp: 666788

Ion Ratio Lower Upper

41 100

42 71.7 54.2 81.4



#10

Heptane

Concen: 10.98 ppbv

RT: 8.15 min Scan# 1667

Delta R.T. 0.03 min

Lab File: VL038867.D

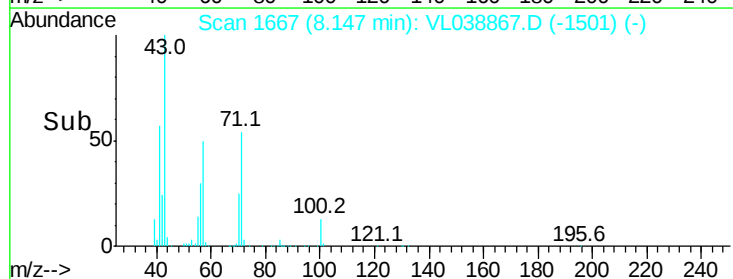
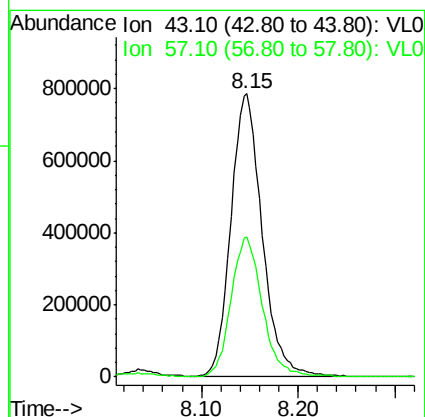
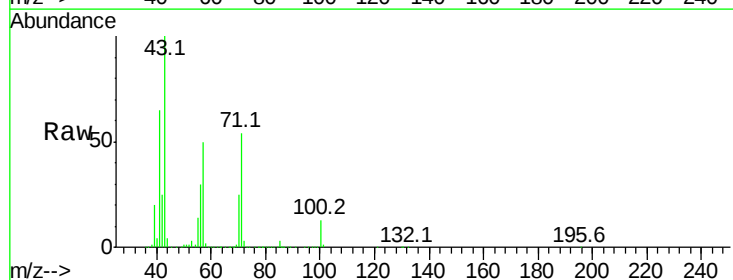
Acq: 8 Apr 2022 9:46

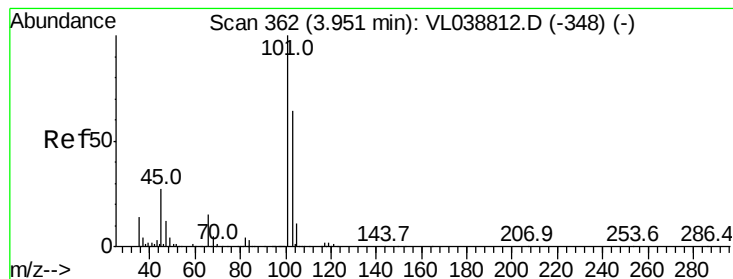
Tgt Ion: 43 Resp: 1749117

Ion Ratio Lower Upper

43 100

57 49.5 39.3 58.9





#11

Trichlorofluoromethane

Concen: 12.63 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

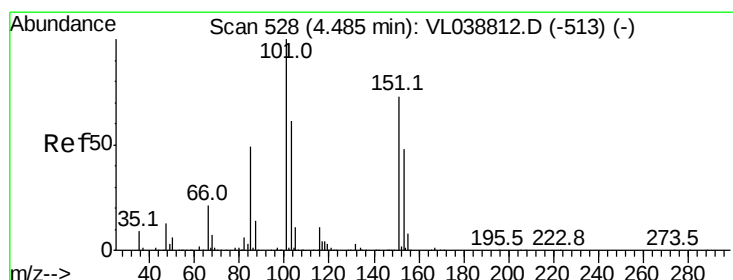
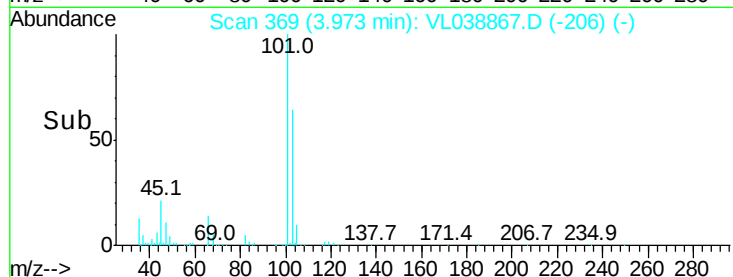
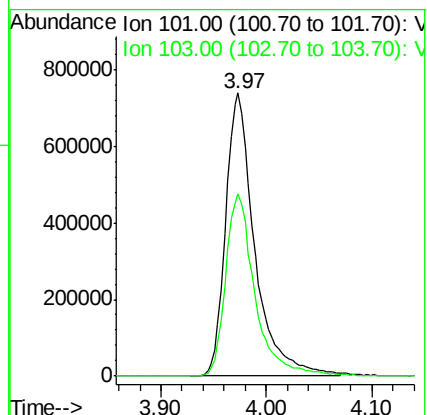
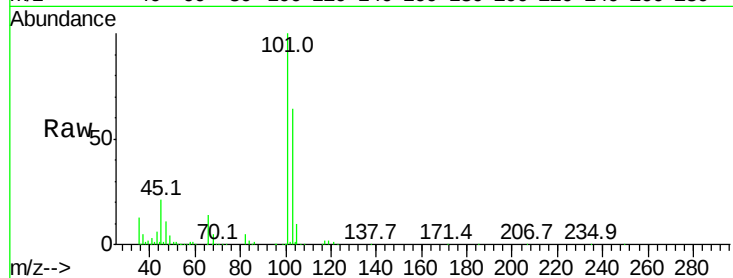
Acq: 8 Apr 2022 9:48 VSTDCCC010EC

Tgt Ion:101 Resp: 1410553

Ion Ratio Lower Upper

101 100

103 64.3 51.4 77.0



#12

1,1,2-Trichlorotrifluoroethane

Concen: 12.28 ppbv

RT: 4.51 min Scan# 535

Delta R.T. 0.02 min

Lab File: VL038867.D

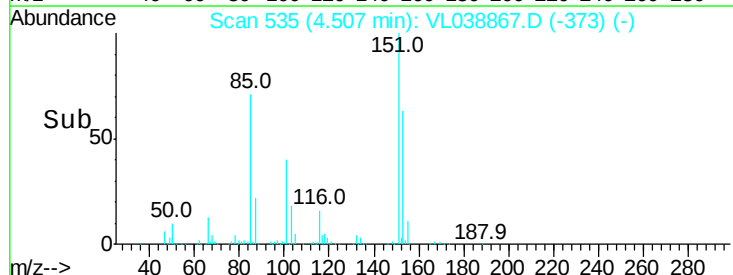
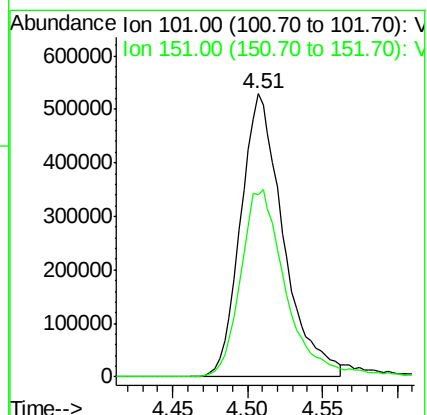
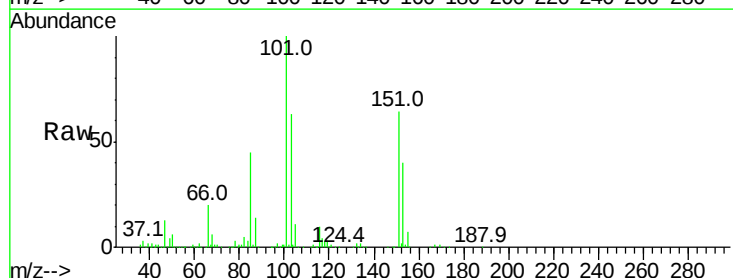
Acq: 8 Apr 2022 9:46

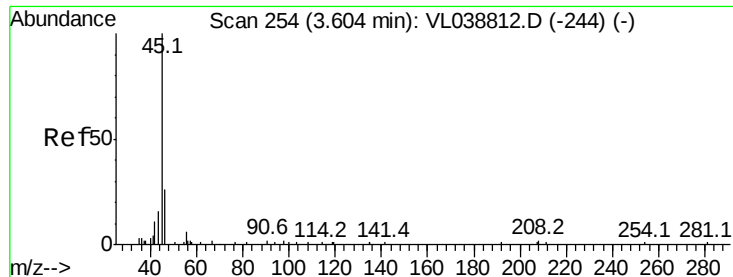
Tgt Ion:101 Resp: 1050122

Ion Ratio Lower Upper

101 100

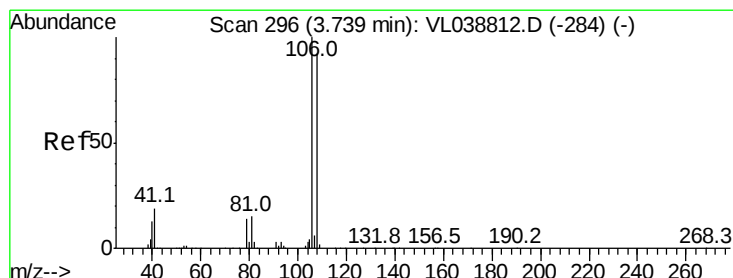
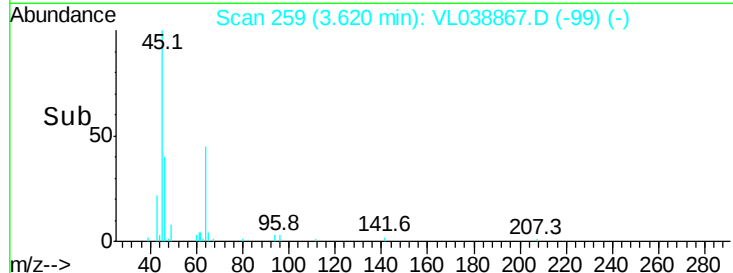
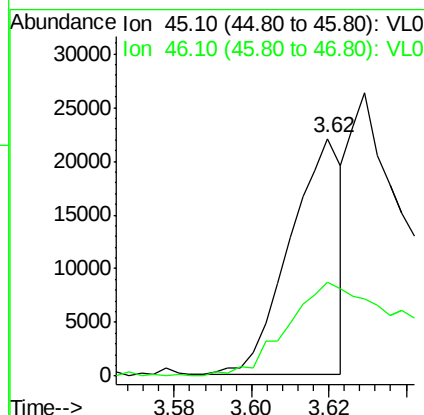
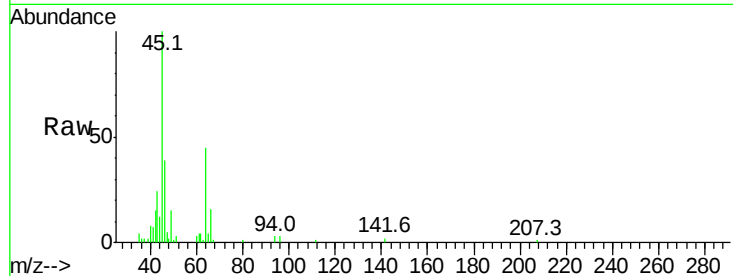
151 70.9 59.9 89.9





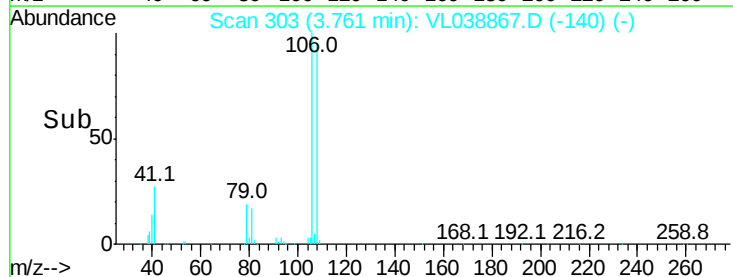
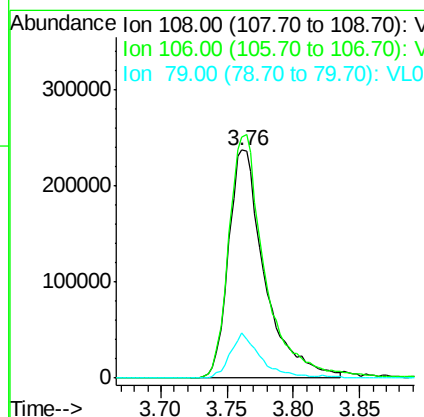
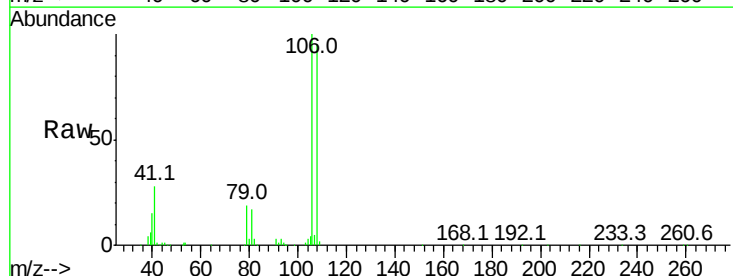
#13
 Ethanol
 Concen: 5.32 ppbv
 RT: 3.62
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 8 Apr 2022 9:48

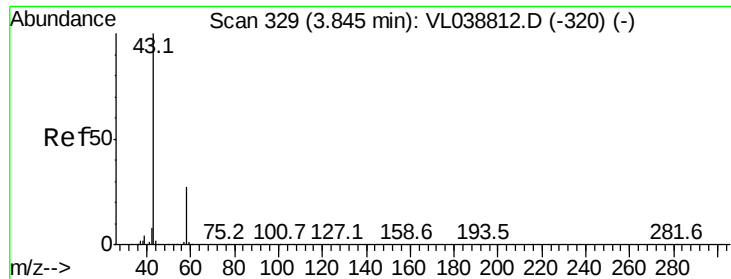
Tgt Ion	Ratio	Lower	Upper
45	100		
46	126.5	0.0	0.0#



#14
 Bromoethene
 Concen: 11.99 ppbv
 RT: 3.76 min Scan# 303
 Delta R.T. 0.02 min
 Lab File: VL038867.D
 Acq: 8 Apr 2022 9:46

Tgt Ion	Ratio	Lower	Upper
108	100		
106	108.3	91.5	137.3
79	17.6	13.7	20.5





#15

Acetone

Concen: 11.11 ppbv

RT: 3.87

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

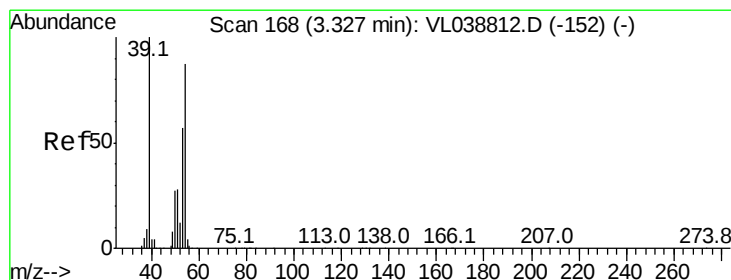
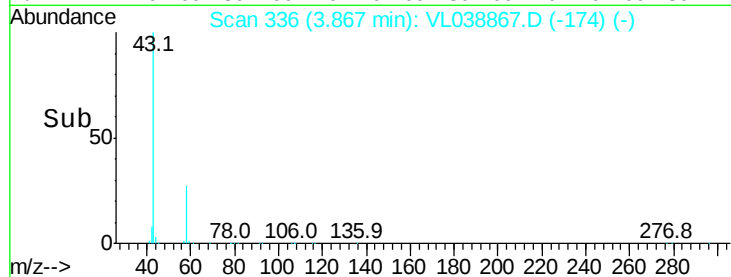
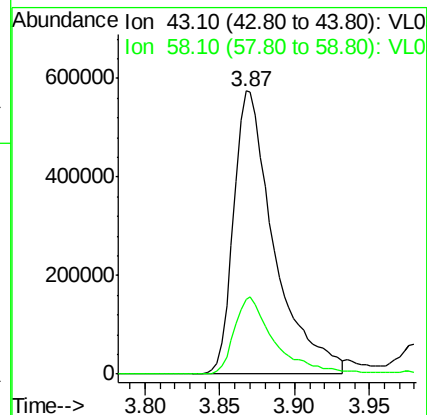
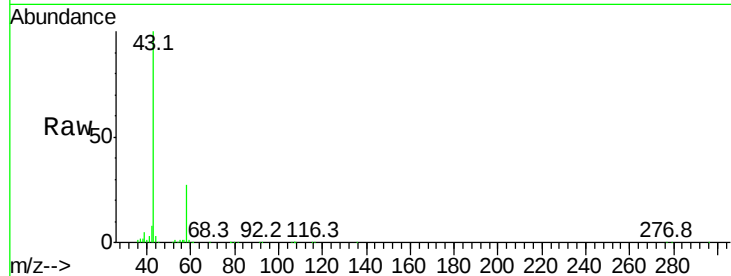
Acq: 8 Apr 2022 9:46

Tgt Ion: 43 Resp: 1084200

Ion Ratio Lower Upper

43 100

58 27.5 22.5 33.7



#16

1,3-Butadiene

Concen: 11.20 ppbv

RT: 3.35 min Scan# 175

Delta R.T. 0.02 min

Lab File: VL038867.D

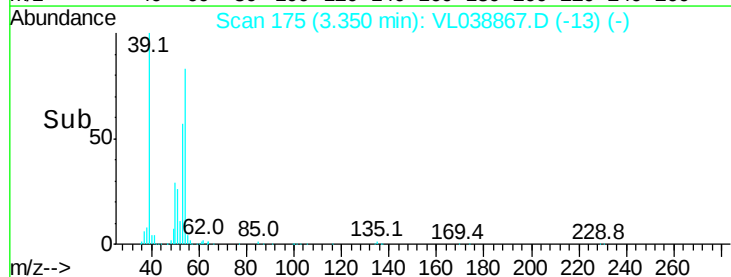
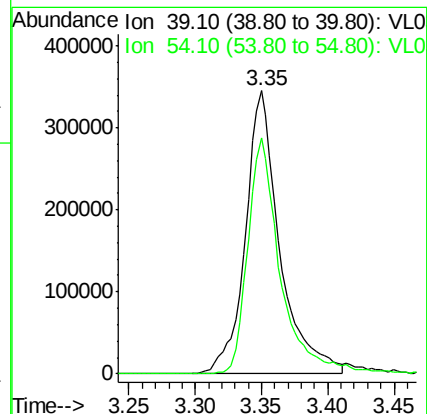
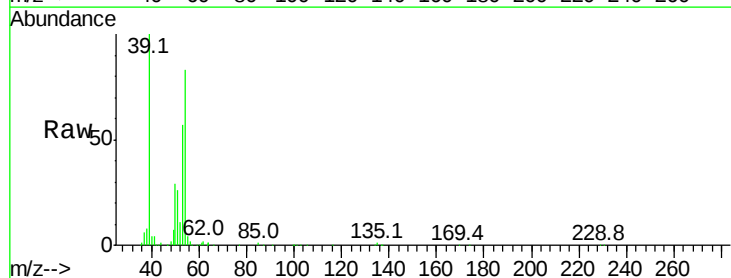
Acq: 8 Apr 2022 9:46

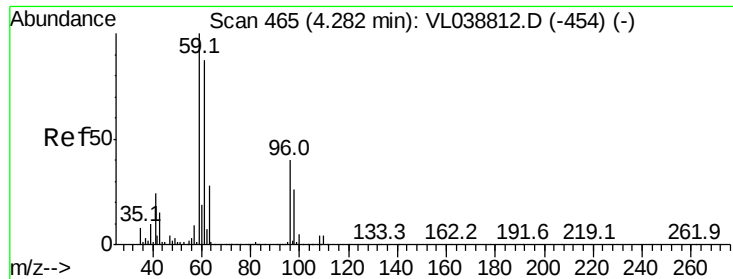
Tgt Ion: 39 Resp: 624488

Ion Ratio Lower Upper

39 100

54 79.6 64.8 97.2





#17

tert-Butyl alcohol

Concen: 8.92 ppbv

RT: 4.30 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

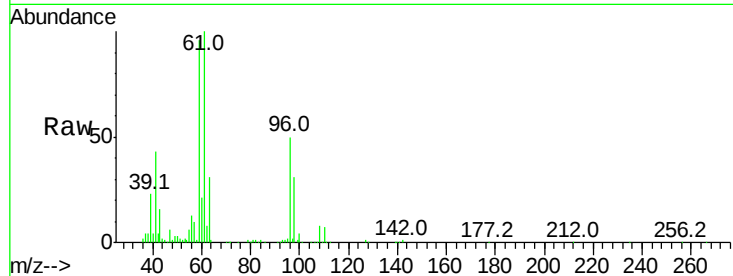
Acq: 8 Apr 2022 9:40 VSTDCCC010EC

Tgt Ion: 59 Resp: 780542

Ion Ratio Lower Upper

59 100

57 10.8 8.5 12.7



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.30

400000

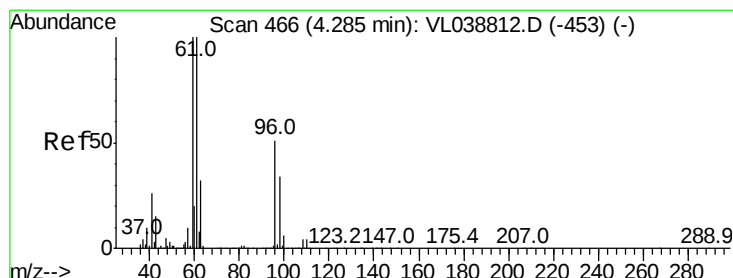
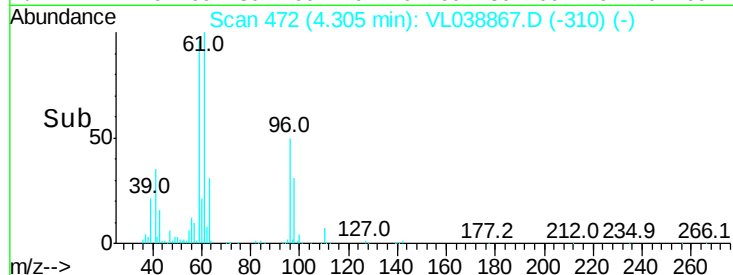
300000

200000

100000

0

Time-->



#18

1,1-Dichloroethene

Concen: 12.05 ppbv

RT: 4.31 min Scan# 474

Delta R.T. 0.03 min

Lab File: VL038867.D

Acq: 8 Apr 2022 9:46

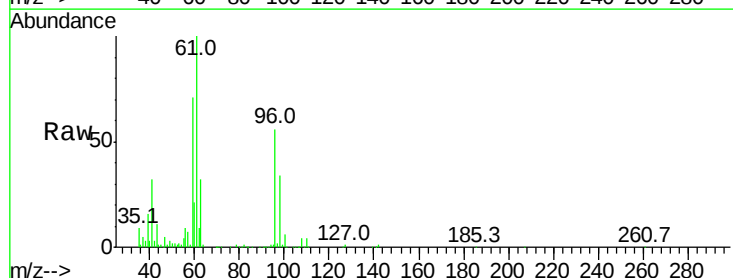
Tgt Ion: 96 Resp: 469824

Ion Ratio Lower Upper

96 100

61 177.5 156.1 234.1

98 61.1 53.0 79.6



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

600000

500000

400000

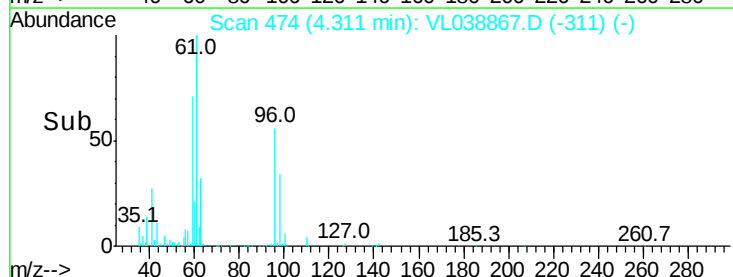
300000

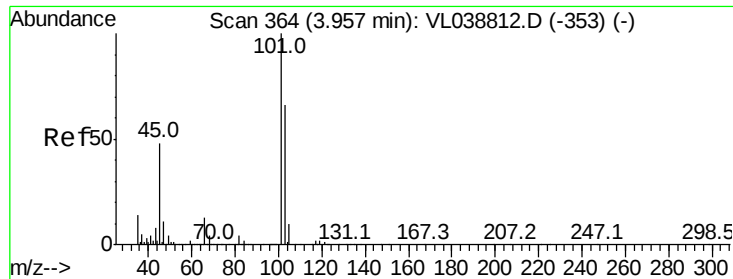
200000

100000

0

Time-->





#19

Isopropyl Alcohol

Concen: 9.94 ppbv

RT: 3.99 Instrument: MSVOA_1

Delta R.T. 0.02 min

Lab File: ClientSampleId: VSTDCCC010EC

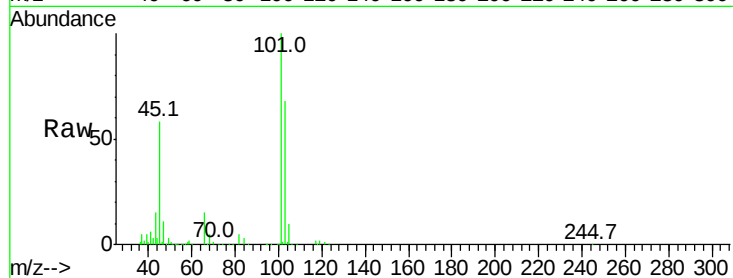
Acq: 8 Apr 2022 9:46

Tgt Ion: 45 Resp: 495688

Ion Ratio Lower Upper

45 100

58 2.7 0.0 0.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.99

250000

200000

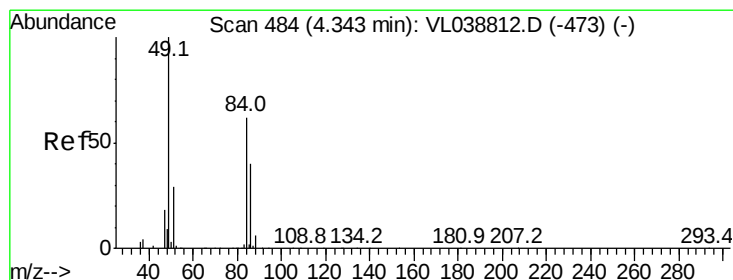
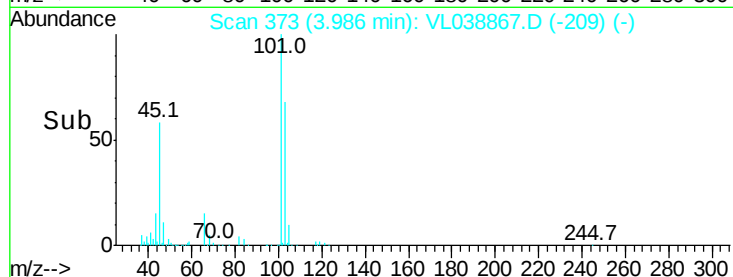
150000

100000

50000

0

Time--> 3.90 3.95 4.00 4.05



#20

Methylene Chloride

Concen: 10.98 ppbv

RT: 4.37 min Scan# 491

Delta R.T. 0.02 min

Lab File: VL038867.D

Acq: 8 Apr 2022 9:46

Tgt Ion: 84 Resp: 388404

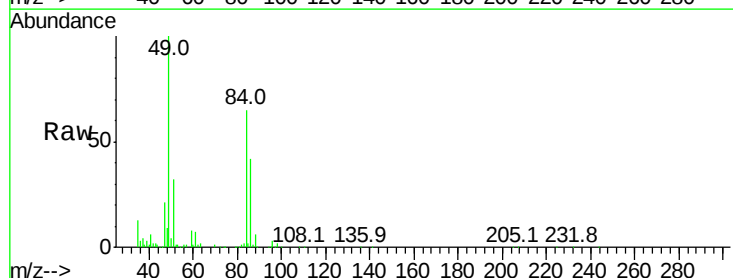
Ion Ratio Lower Upper

84 100

49 152.4 129.4 194.0

51 46.7 37.4 56.2

86 65.0 51.4 77.2



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

4.37

500000

400000

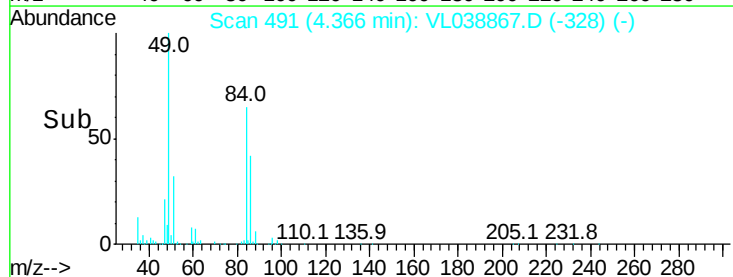
300000

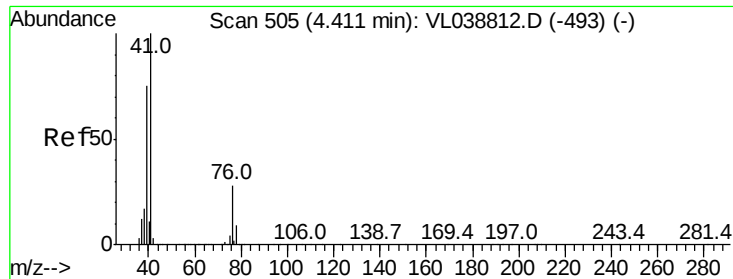
200000

100000

0

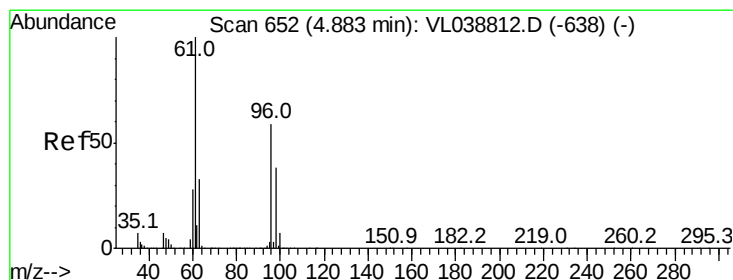
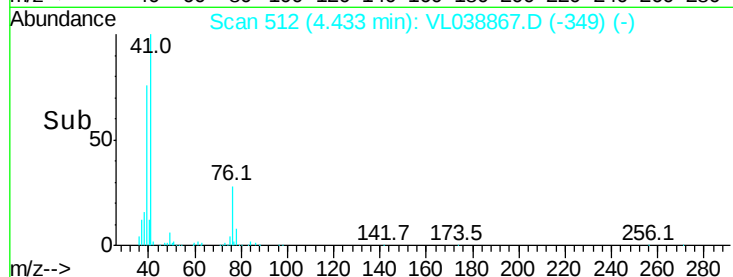
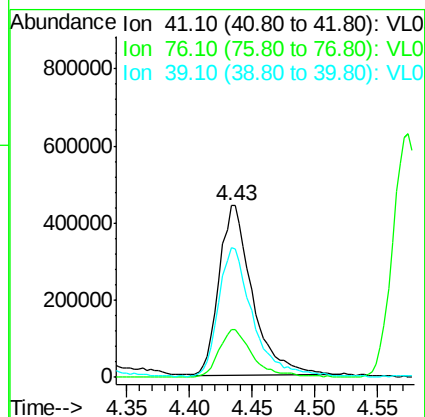
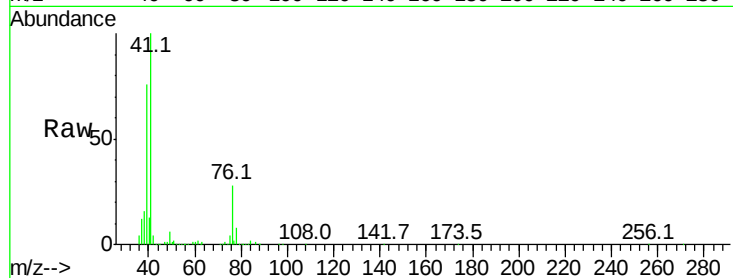
Time--> 4.30 4.35 4.40 4.45





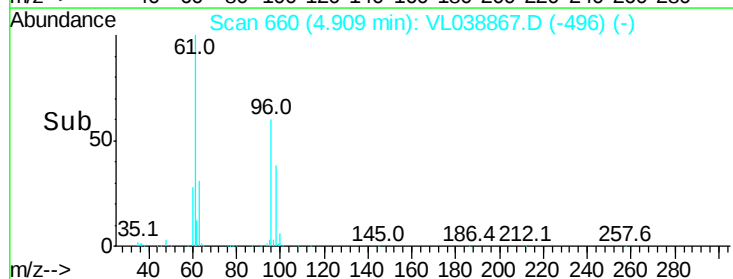
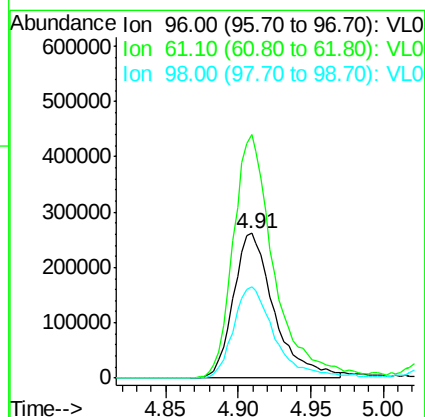
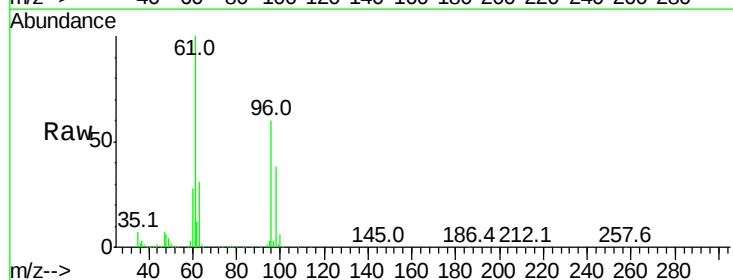
#21
 Allyl Chloride
 Concen: 11.24 ppbv
 RT: 4.43
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 8 Apr 2022 9:46

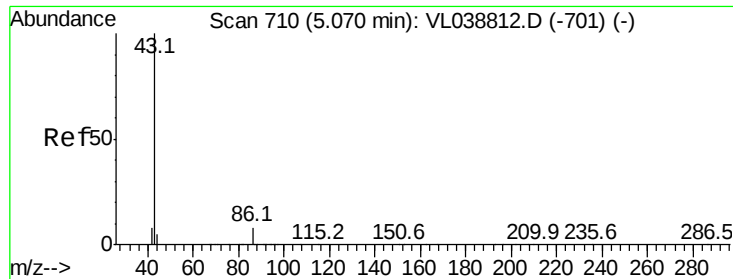
Tgt Ion: 41 Resp: 821096
 Ion Ratio Lower Upper
 41 100
 76 28.7 23.7 35.5
 39 77.3 62.0 93.0



#22
 trans-1,2-Dichloroethene
 Concen: 12.96 ppbv
 RT: 4.91 min Scan# 660
 Delta R.T. 0.03 min
 Lab File: VL038867.D
 Acq: 8 Apr 2022 9:46

Tgt Ion: 96 Resp: 511614
 Ion Ratio Lower Upper
 96 100
 61 167.8 134.8 202.2
 98 63.0 51.9 77.9





#23

Vinyl Acetate

Concen: 11.65 ppbv

RT: 5.10 Instrument: MSVOA_1

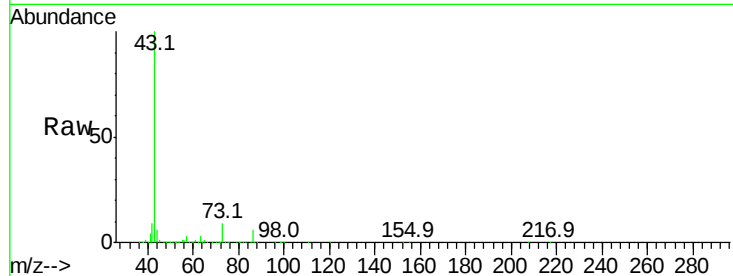
Delta R.T.

Lab File: ClientSampleId:

Acq: 8 Apr 2022 9:48 VSTDCCC010EC

Tgt Ion: 43 Resp: 1106251

Ion	Ratio	Lower	Upper
43	100		
86	6.5	5.8	8.6
42	8.7	7.8	11.6
44	5.4	3.6	5.4#

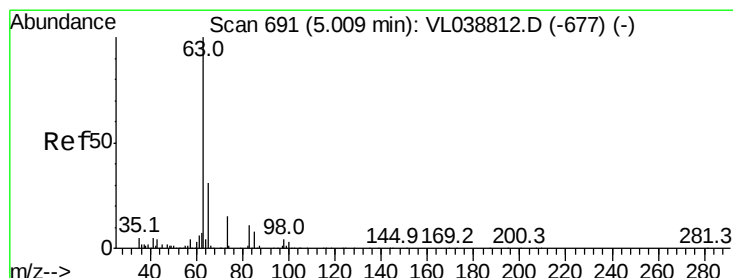
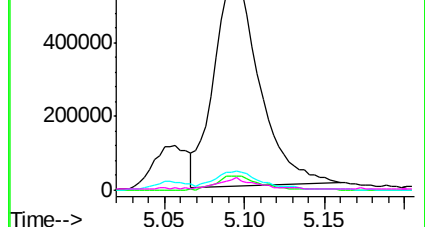
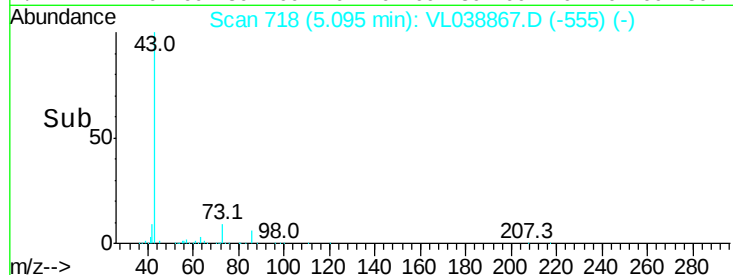


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 11.60 ppbv

RT: 5.03 min Scan# 699

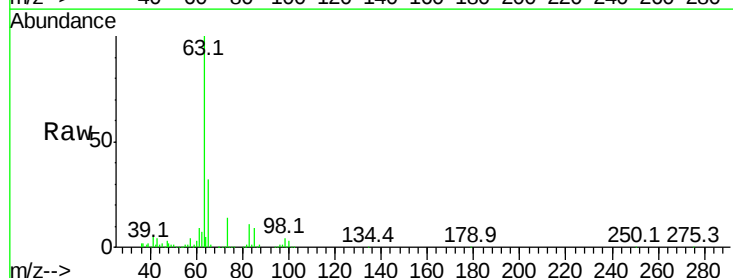
Delta R.T. 0.03 min

Lab File: VL038867.D

Acq: 8 Apr 2022 9:46

Tgt Ion: 63 Resp: 996147

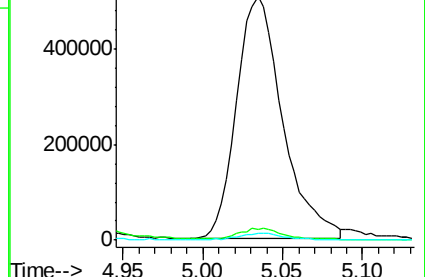
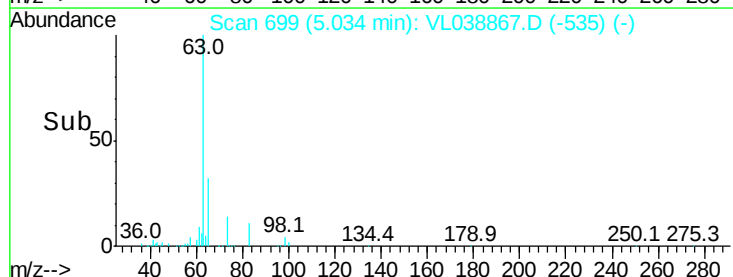
Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.2	6.6
100	2.7	1.4	4.0

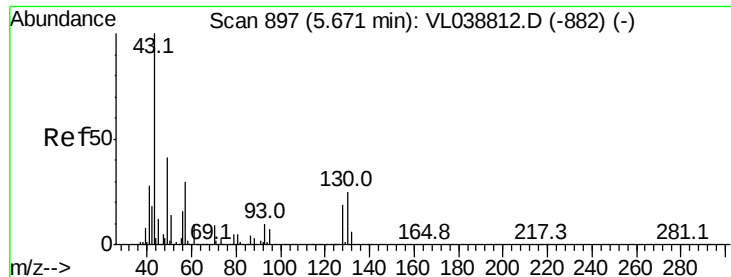


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

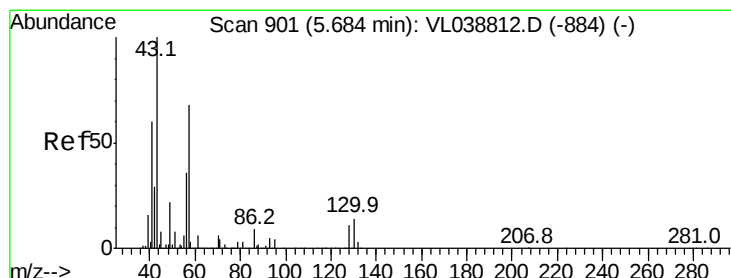
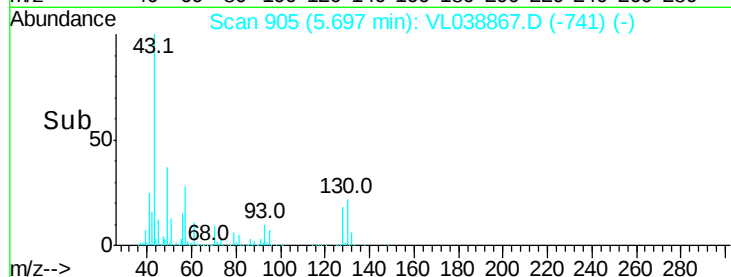
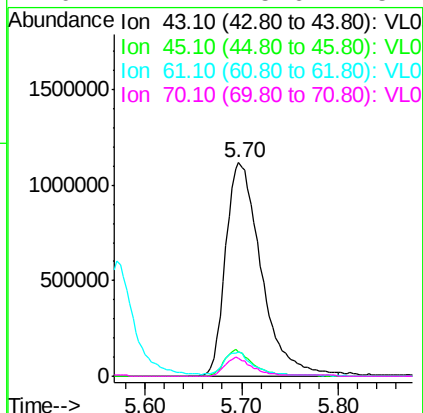
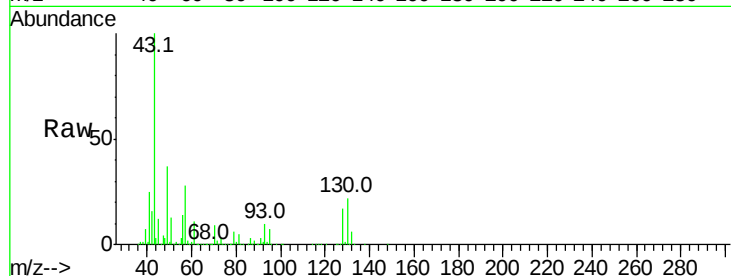




#25
Ethyl Acetate
Concen: 11.53 ppbv
RT: 5.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
VSTDCCC010EC
Acq: 8 Apr 2022 9:46

Tgt Ion: 43 Resp: 2853611

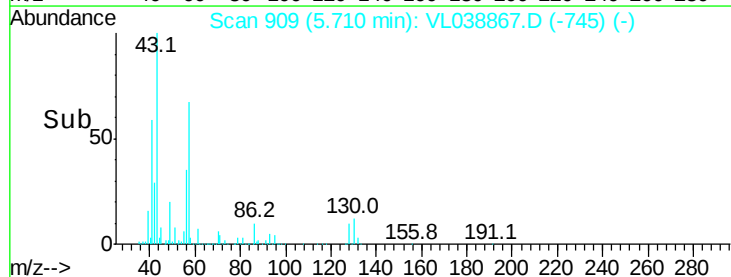
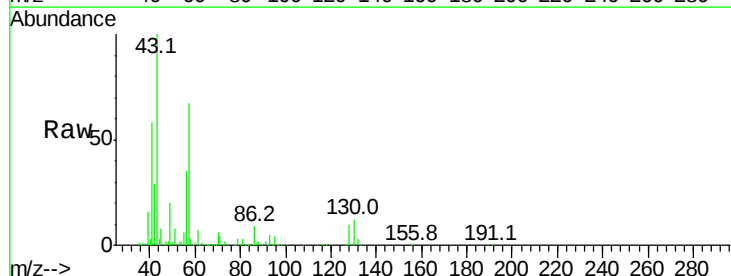
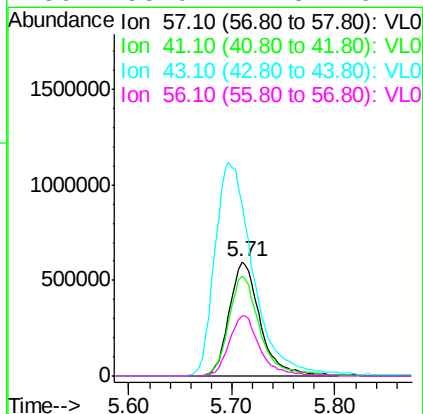
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.4	12.6
61	9.8	7.9	11.9
70	7.1	5.6	8.4

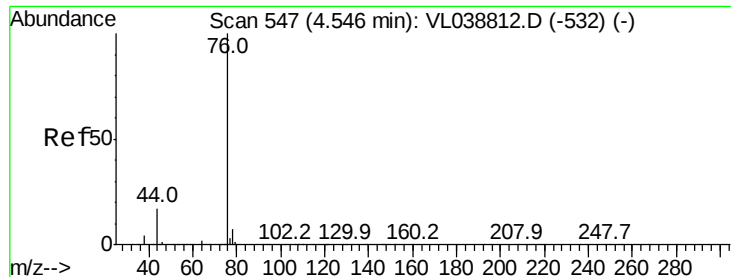


#26
Hexane
Concen: 11.14 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.03 min
Lab File: VL038867.D
Acq: 8 Apr 2022 9:46

Tgt Ion: 57 Resp: 1255475

Ion	Ratio	Lower	Upper
57	100		
41	88.4	72.0	108.0
43	230.1	186.6	280.0
56	53.0	42.8	64.2





#27

Carbon Disulfide

Concen: 12.26 ppbv

RT: 4.57 Instrument: MSVOA_1

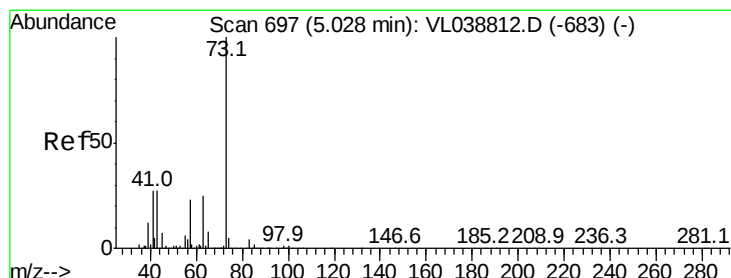
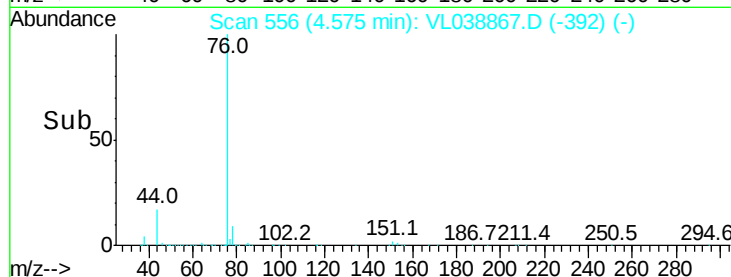
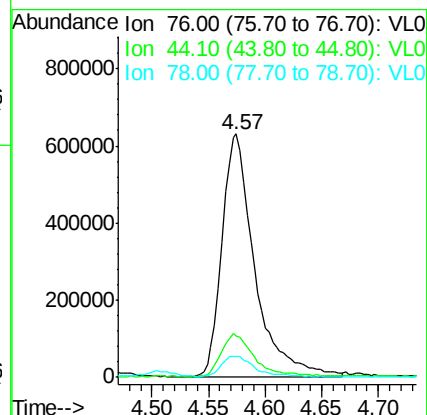
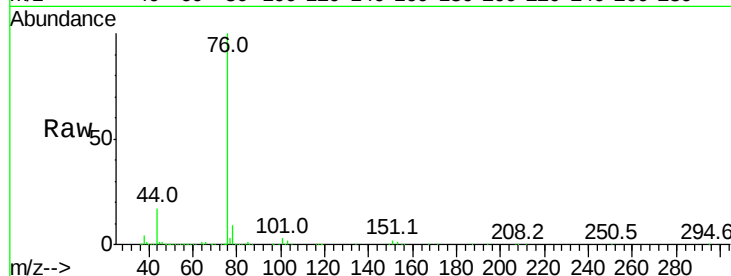
Delta R.T. ClientSampleId:

Lab File: VSTDCCC010EC

Acq: 8 Apr 2022 9:48

Tgt Ion: 76 Resp: 1266745

Ion	Ratio	Lower	Upper
76	100		
44	18.5	15.7	23.5
78	9.4	7.8	11.8



#28

Methyl tert-Butyl Ether

Concen: 11.03 ppbv

RT: 5.05 min Scan# 705

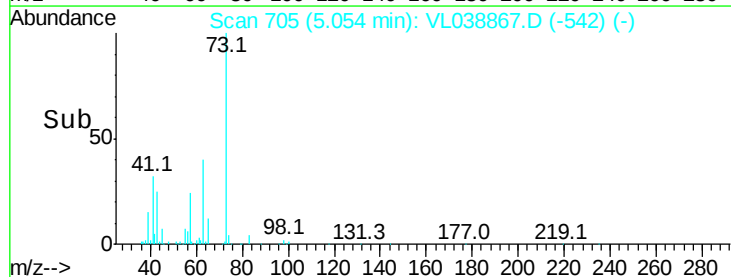
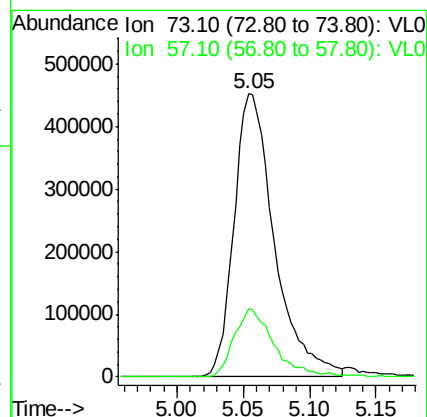
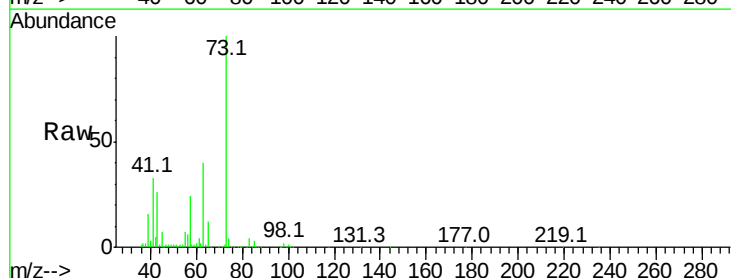
Delta R.T. 0.03 min

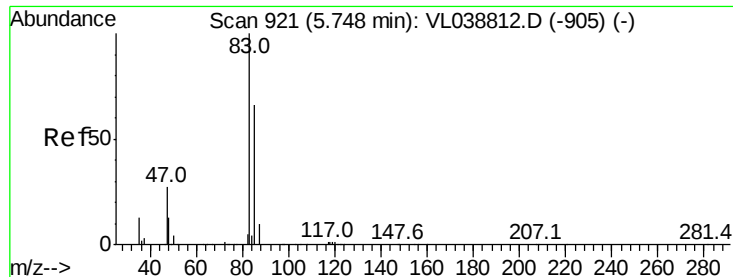
Lab File: VL038867.D

Acq: 8 Apr 2022 9:46

Tgt Ion: 73 Resp: 959793

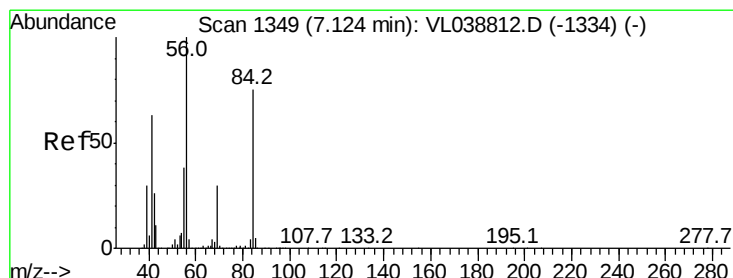
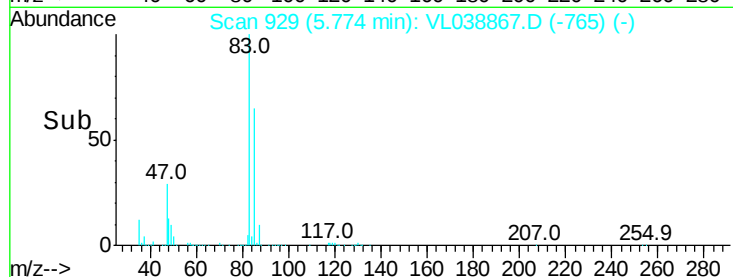
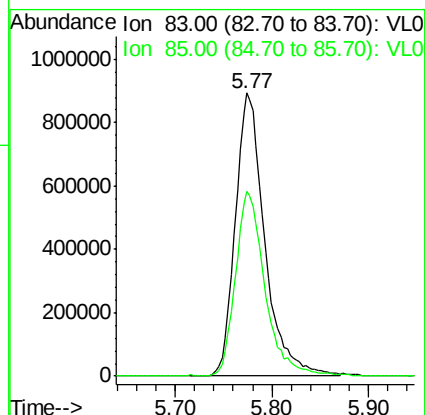
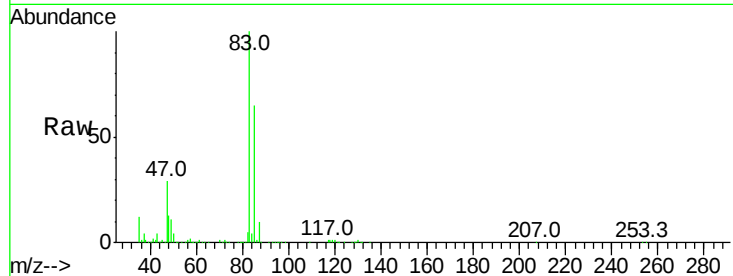
Ion	Ratio	Lower	Upper
73	100		
57	24.2	19.7	29.5





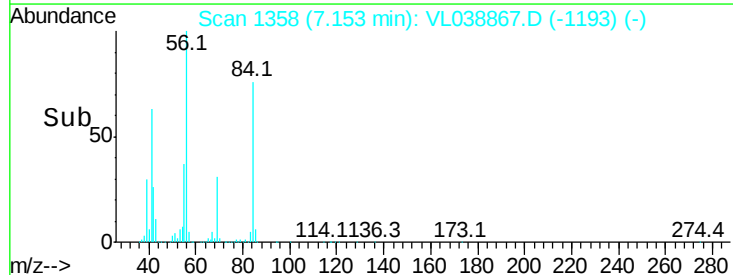
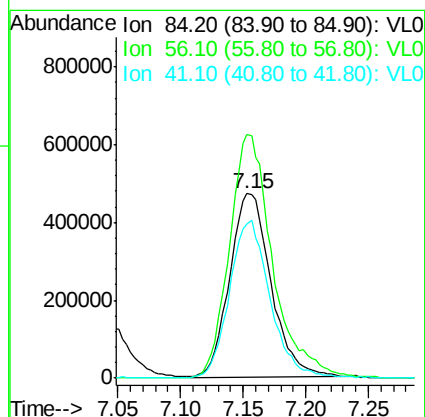
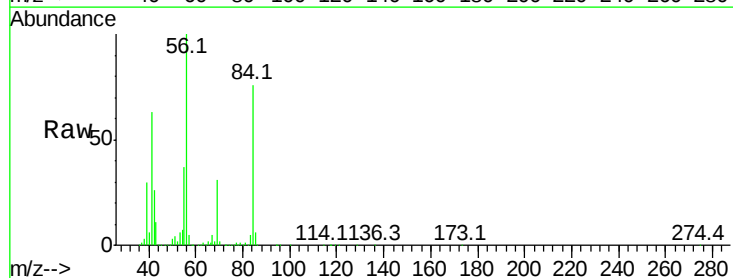
#29
Chloroform
Concen: 11.99 ppbv
RT: 5.77
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 8 Apr 2022 9:48

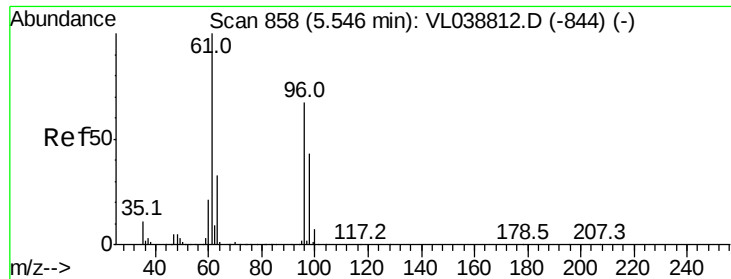
Tgt Ion: 83 Resp: 1889484
Ion Ratio Lower Upper
83 100
85 65.0 52.5 78.7



#30
Cyclohexane
Concen: 10.83 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. 0.03 min
Lab File: VL038867.D
Acq: 8 Apr 2022 9:46

Tgt Ion: 84 Resp: 1075575
Ion Ratio Lower Upper
84 100
56 140.1 114.4 171.6
41 85.8 69.0 103.4





#31

cis-1,2-Dichloroethene

Concen: 11.72 ppbv

RT: 5.57 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 8 Apr 2022 9:46 VSTDCCC010EC

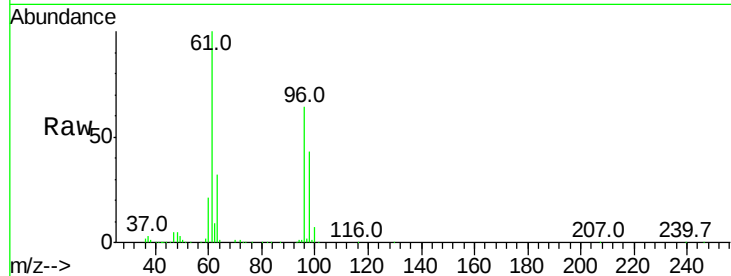
Tgt Ion: 61 Resp: 1214316

Ion Ratio Lower Upper

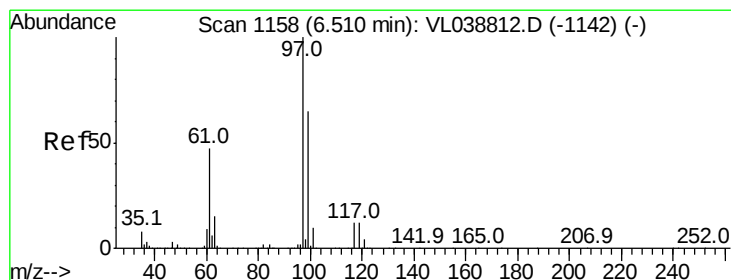
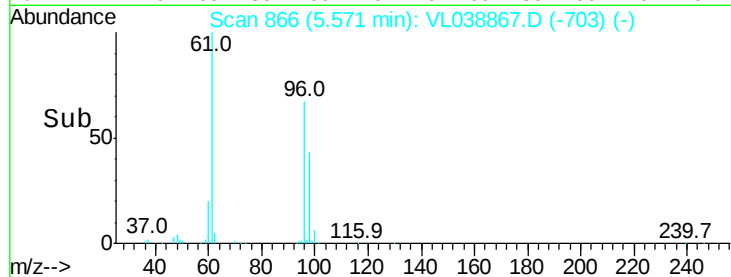
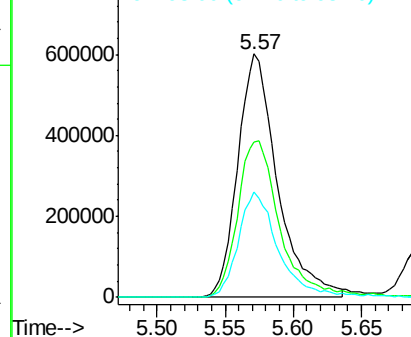
61 100

96 63.9 53.4 80.0

98 43.0 34.2 51.4



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 11.62 ppbv

RT: 6.54 min Scan# 1166

Delta R.T. 0.03 min

Lab File: VL038867.D

Acq: 8 Apr 2022 9:46

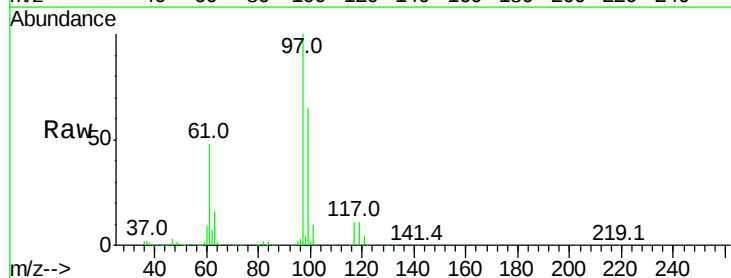
Tgt Ion: 97 Resp: 1844986

Ion Ratio Lower Upper

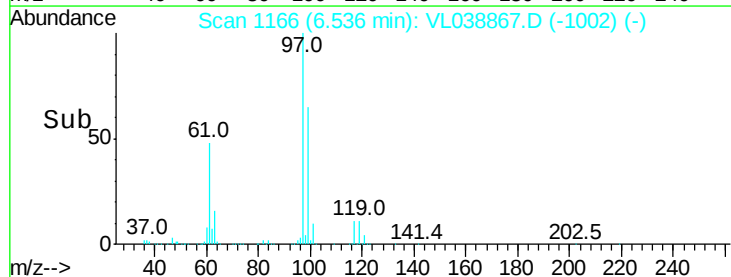
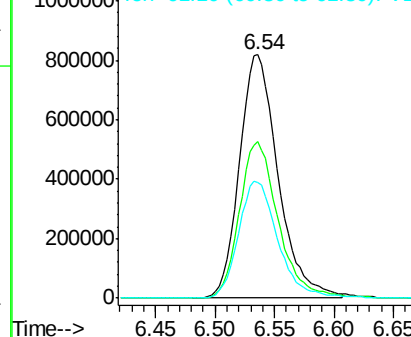
97 100

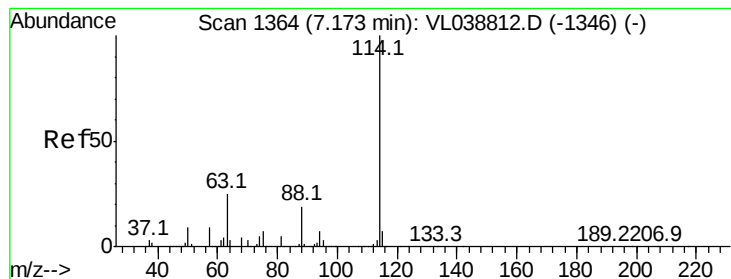
99 64.8 52.4 78.6

61 49.1 38.6 57.8



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.20 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 8 Apr 2022 9:46 VSTDCCC010EC

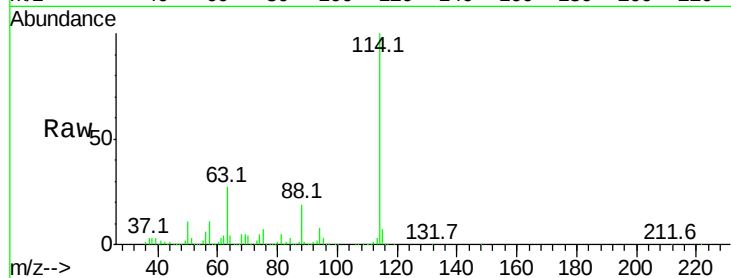
Tgt Ion: 114 Resp: 2674409

Ion Ratio Lower Upper

114 100

63 25.9 19.8 29.8

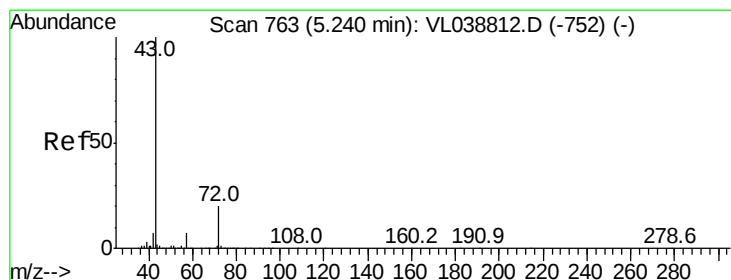
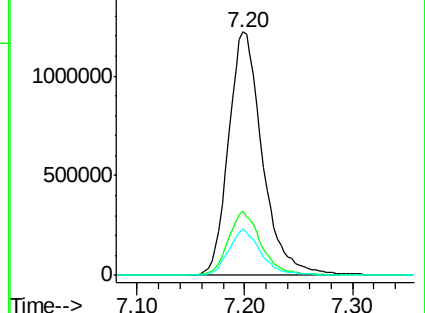
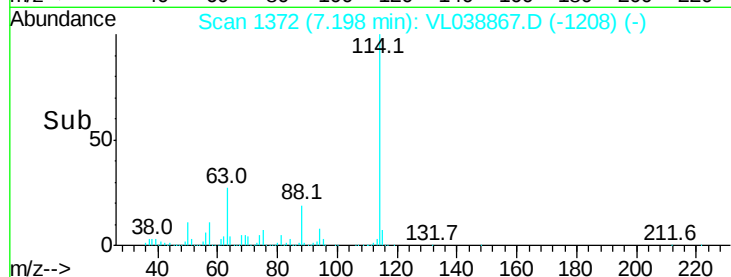
88 18.2 14.2 21.4



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: 11.49 ppbv

RT: 5.26 min Scan# 770

Delta R.T. 0.02 min

Lab File: VL038867.D

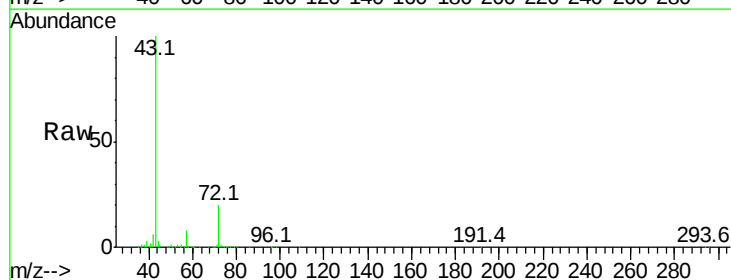
Acq: 8 Apr 2022 9:46

Tgt Ion: 43 Resp: 1214425

Ion Ratio Lower Upper

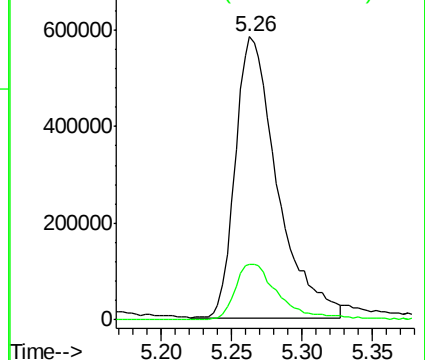
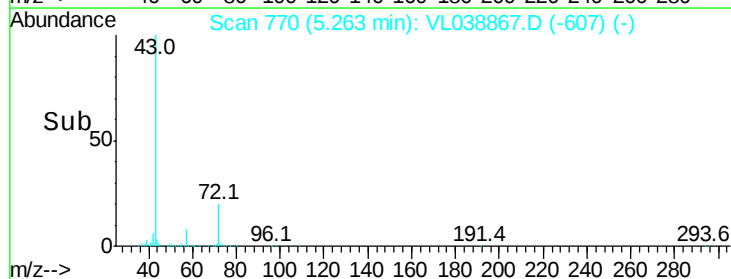
43 100

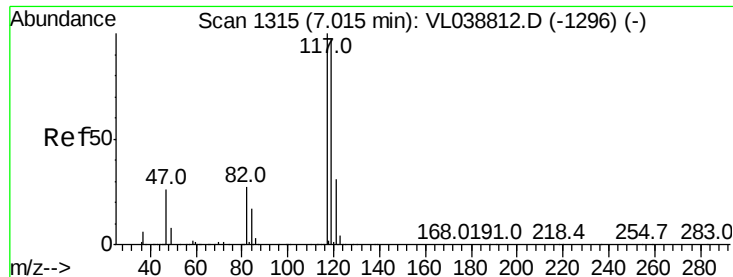
72 21.7 16.9 25.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

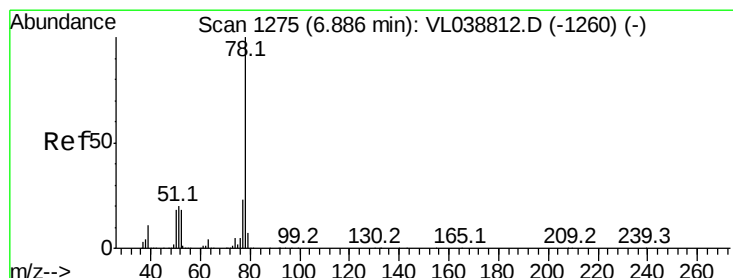
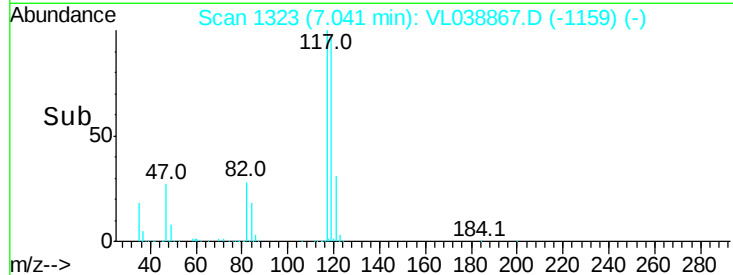
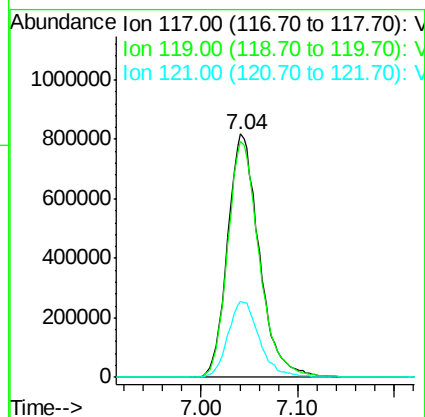
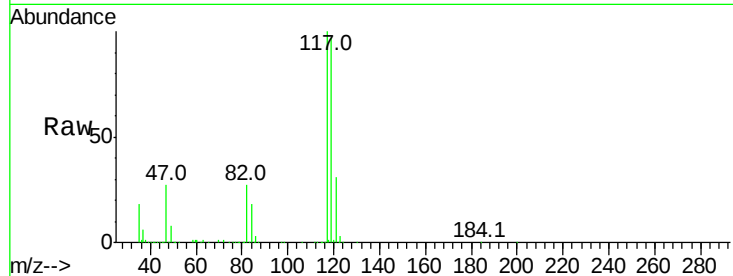
Ion 72.10 (71.80 to 72.80): VL0





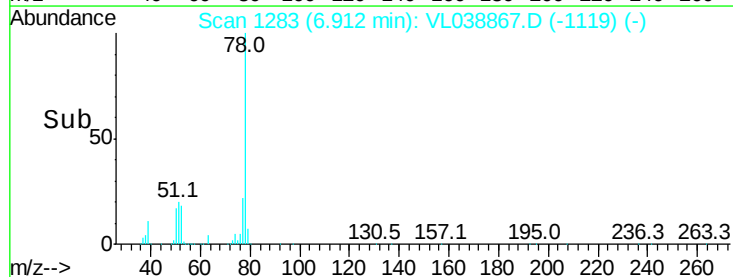
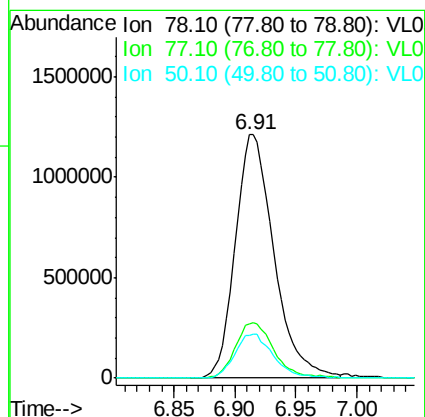
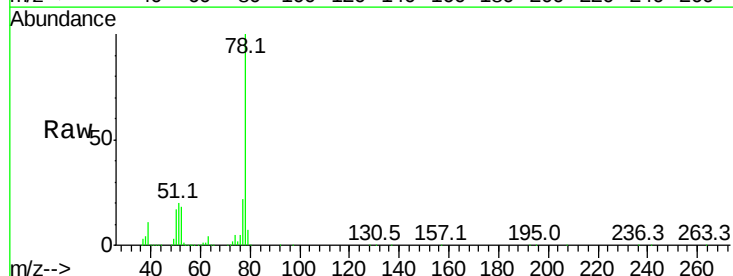
#35
Carbon Tetrachloride
Concen: 11.58 ppbv
RT: 7.04
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : VSTDCCC010EC
Acq: 8 Apr 2022 9:48

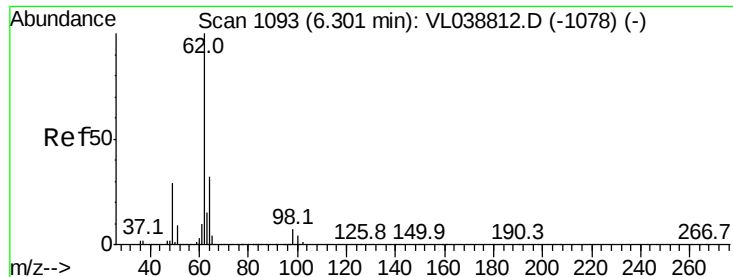
Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.1	77.7	116.5
121	31.4	24.5	36.7



#36
Benzene
Concen: 10.94 ppbv
RT: 6.91 min Scan# 1283
Delta R.T.: 0.03 min
Lab File: VL038867.D
Acq: 8 Apr 2022 9:46

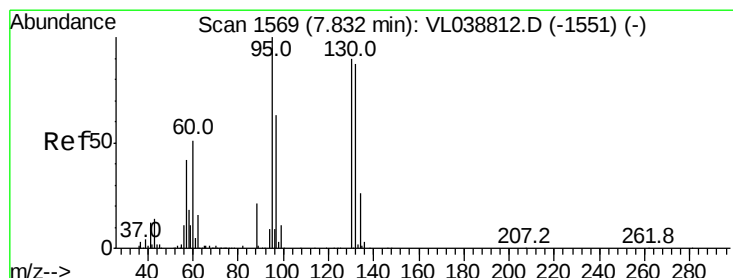
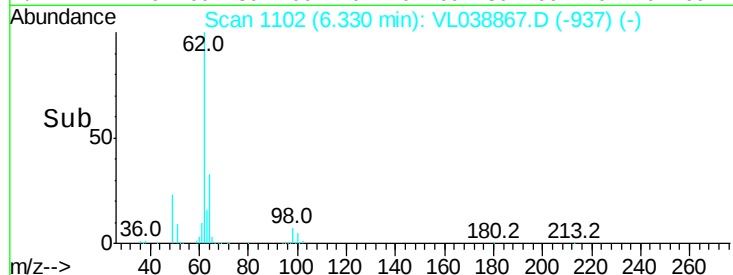
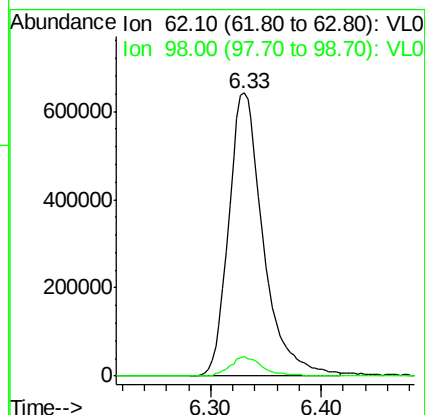
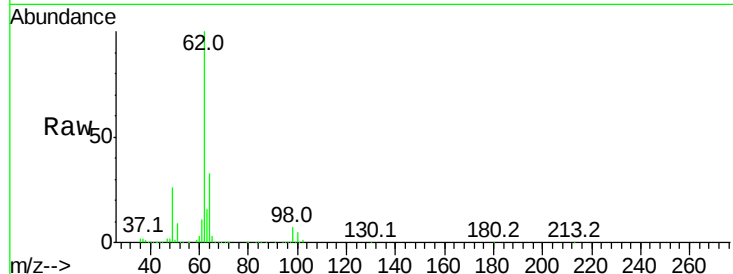
Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.2	27.2
50	17.4	14.0	21.0





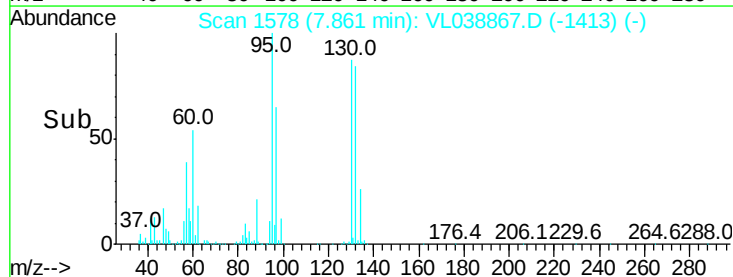
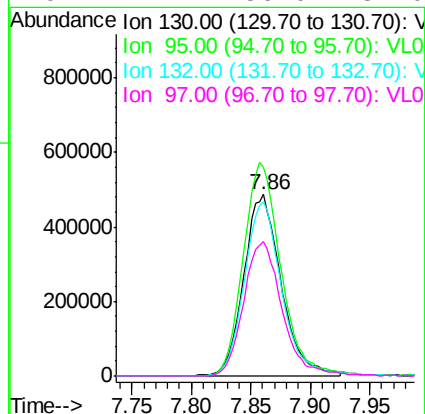
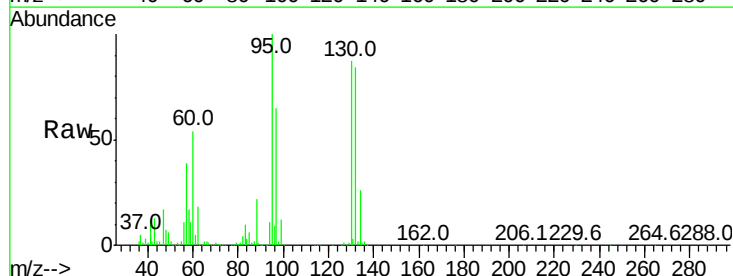
#37
 1,2-Dichloroethane
 Concen: 12.57 ppbv
 RT: 6.33
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 8 Apr 2022 9:48

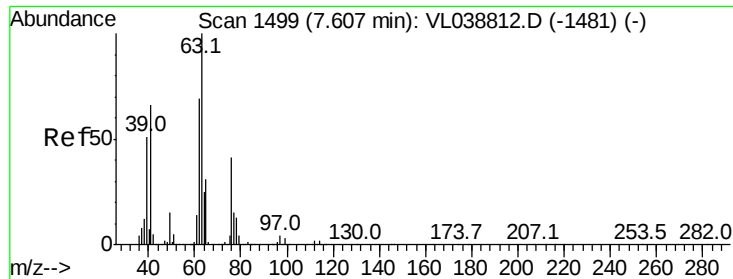
Tgt Ion: 62 Resp: 1397873
 Ion Ratio Lower Upper
 62 100
 98 6.8 5.9 8.9



#38
 Trichloroethene
 Concen: 10.51 ppbv
 RT: 7.86 min Scan# 1578
 Delta R.T. 0.03 min
 Lab File: VL038867.D
 Acq: 8 Apr 2022 9:46

Tgt Ion: 130 Resp: 1049448
 Ion Ratio Lower Upper
 130 100
 95 115.2 89.4 134.0
 132 96.4 77.7 116.5
 97 74.4 56.0 84.0

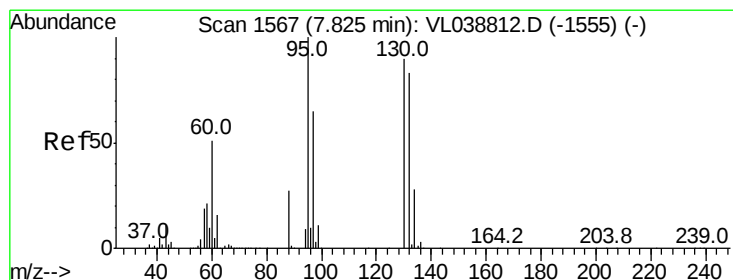
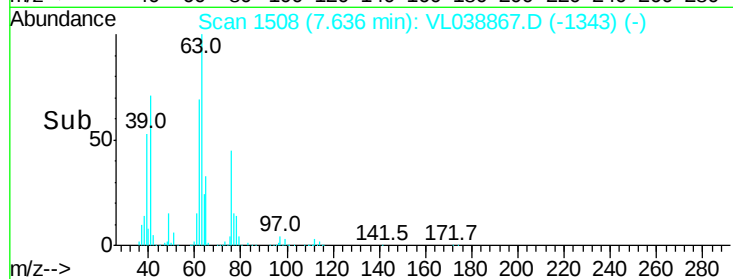
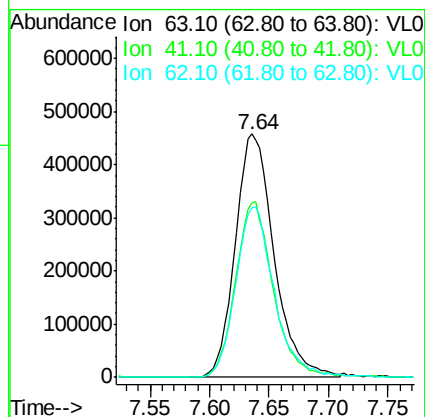
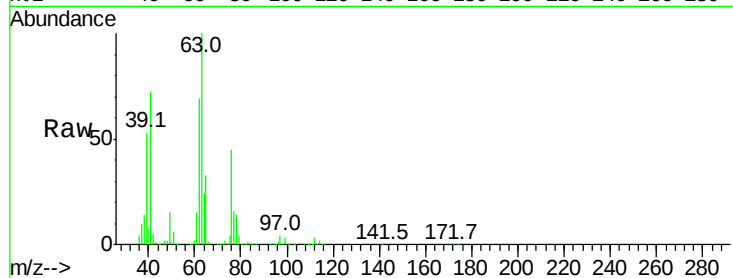




#39
 1,2-Dichloropropane
 Concen: 11.12 ppbv
 RT: 7.64
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 VSTDCCC010EC
 Acq: 8 Apr 2022 9:48

Tgt Ion: 63 Resp: 1035110

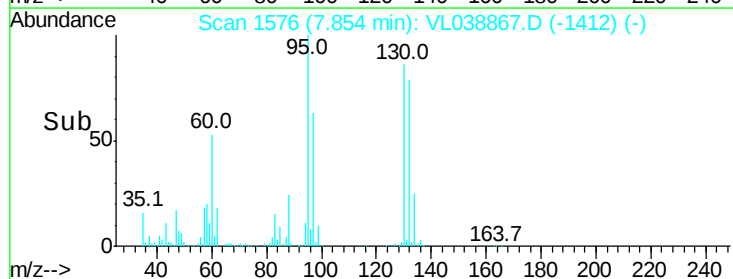
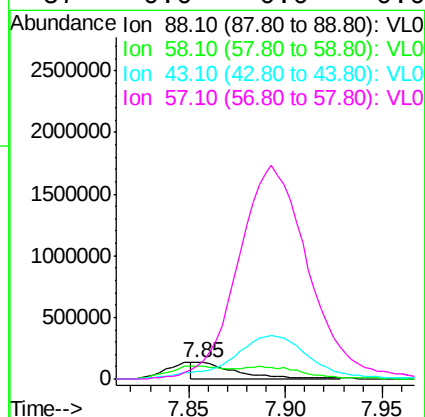
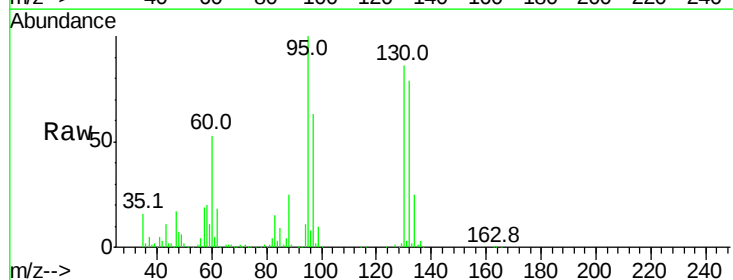
Ion	Ratio	Lower	Upper
63	100		
41	71.5	53.0	79.6
62	69.4	55.0	82.4

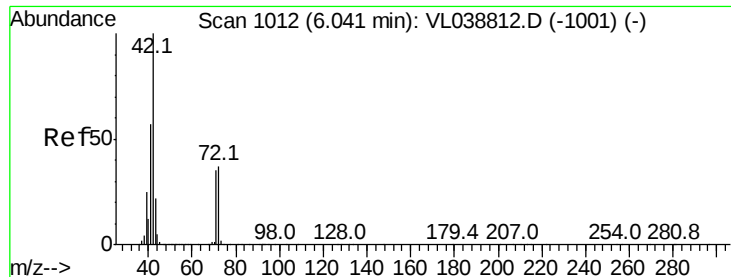


#40
 1,4-Dioxane
 Concen: 6.22 ppbv
 RT: 7.85 min Scan# 1576
 Delta R.T.: 0.03 min
 Lab File: VL038867.D
 Acq: 8 Apr 2022 9:46

Tgt Ion: 88 Resp: 196569

Ion	Ratio	Lower	Upper
88	100		
58	232.6	49.4	74.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 11.31 ppbv

RT: 6.07

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Apr 2022 9:48

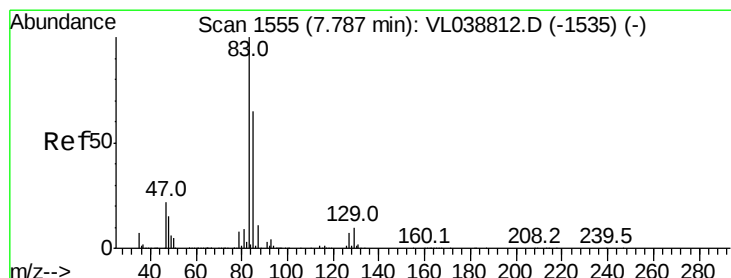
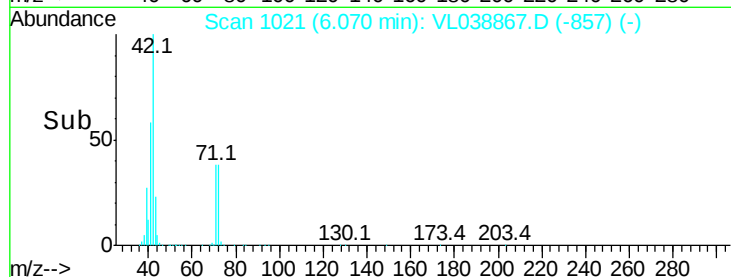
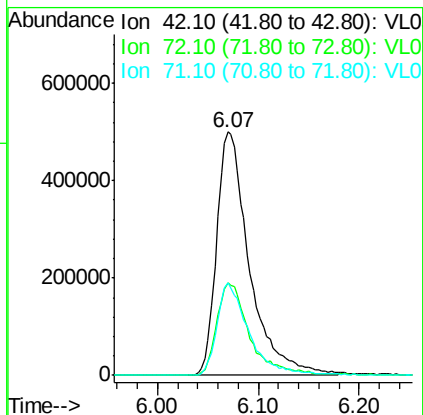
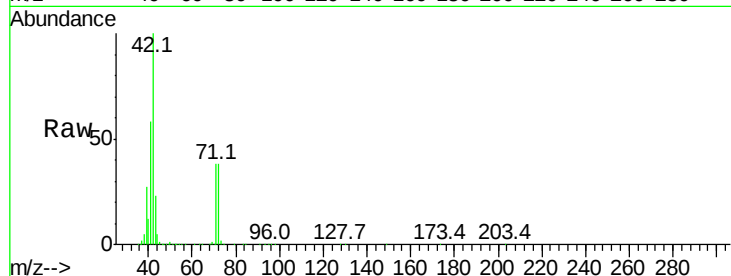
Tgt Ion: 42 Resp: 1134688

Ion Ratio Lower Upper

42 100

72 38.5 31.4 47.0

71 37.1 30.2 45.4



#42

Bromodichloromethane

Concen: 11.91 ppbv

RT: 7.82 min Scan# 1564

Delta R.T. 0.03 min

Lab File: VL038867.D

Acq: 8 Apr 2022 9:46

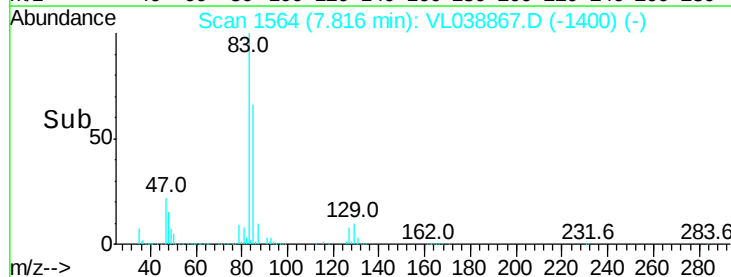
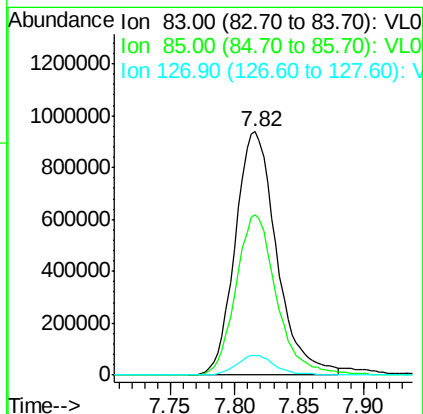
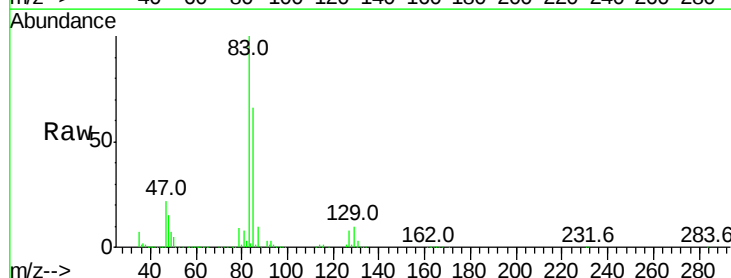
Tgt Ion: 83 Resp: 2092638

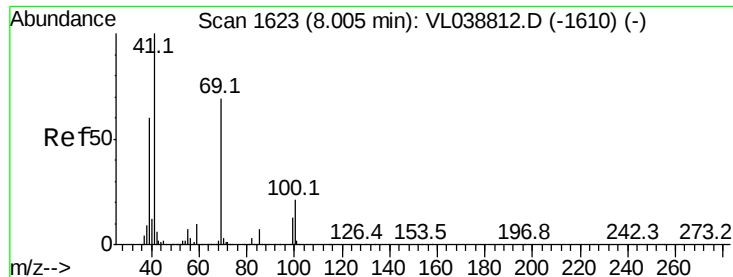
Ion Ratio Lower Upper

83 100

85 65.7 51.7 77.5

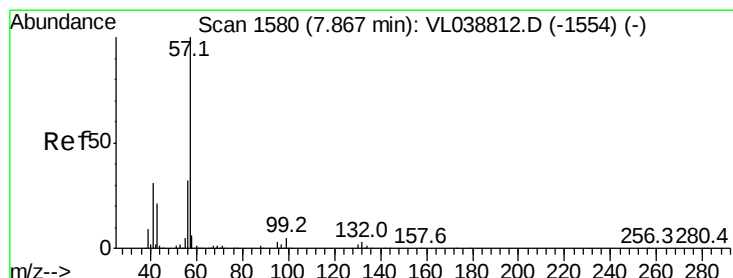
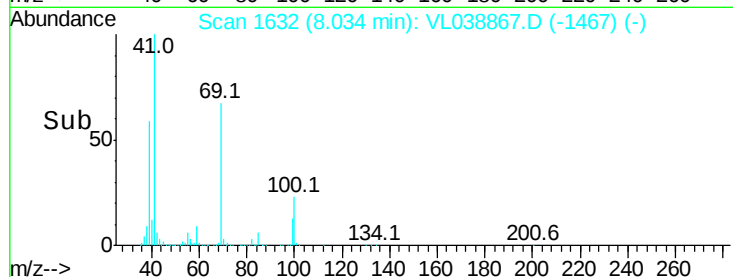
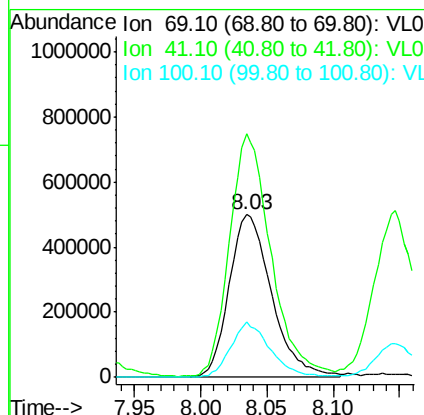
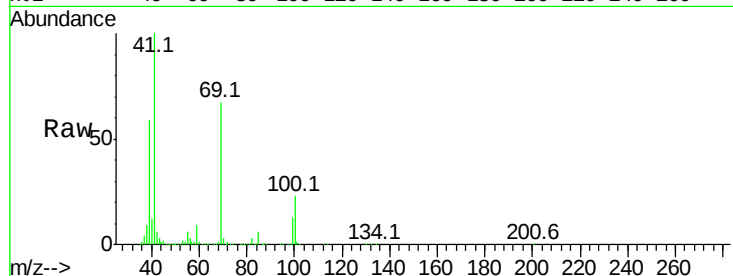
127 8.2 5.9 8.9





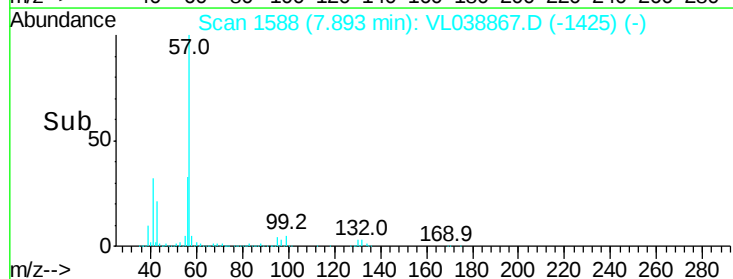
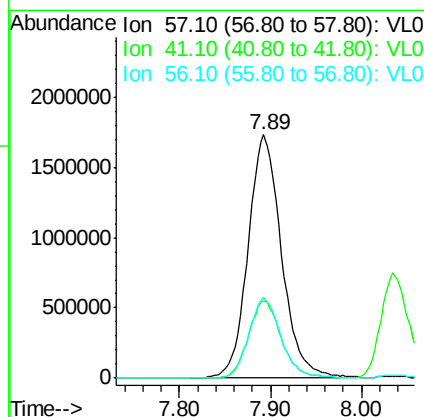
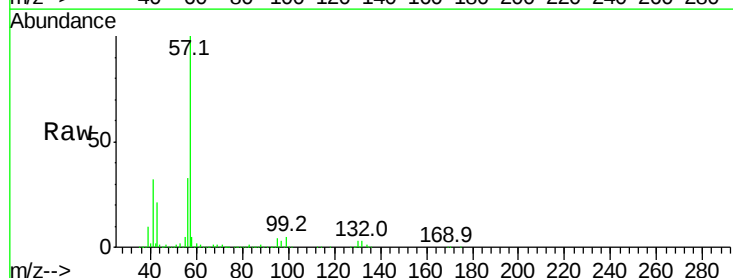
#43
Methyl Methacrylate
Concen: 11.94 ppbv
RT: 8.03
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
VSTDCCC010EC
Acq: 8 Apr 2022 9:46

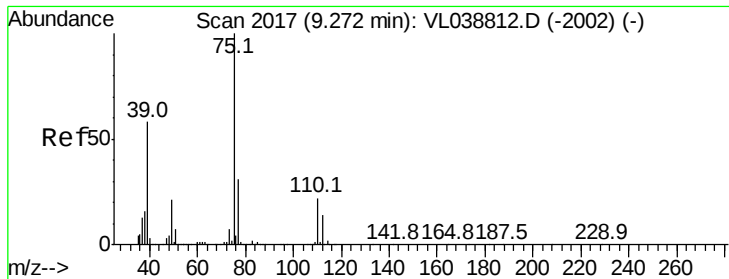
Tgt Ion: 69 Resp: 1112479
Ion Ratio Lower Upper
69 100
41 146.5 119.0 178.4
100 31.8 26.4 39.6



#44
2,2,4-Trimethylpentane
Concen: 10.71 ppbv
RT: 7.89 min Scan# 1588
Delta R.T.: 0.03 min
Lab File: VL038867.D
Acq: 8 Apr 2022 9:46

Tgt Ion: 57 Resp: 4411795
Ion Ratio Lower Upper
57 100
41 31.5 25.0 37.4
56 31.9 25.3 37.9





#45

t-1,3-Dichloropropene

Concen: 11.57 ppbv

RT: 9.30

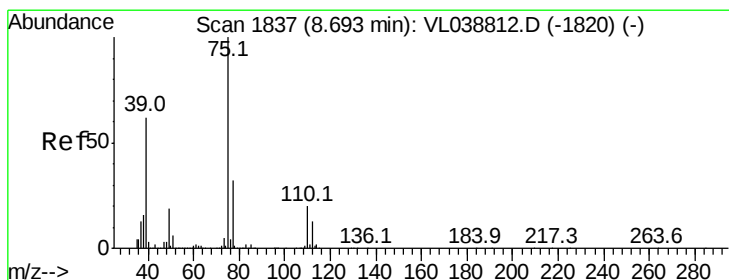
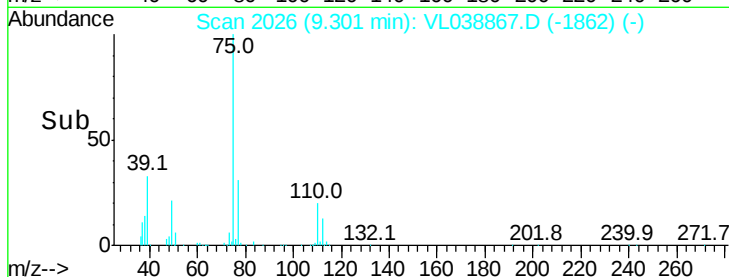
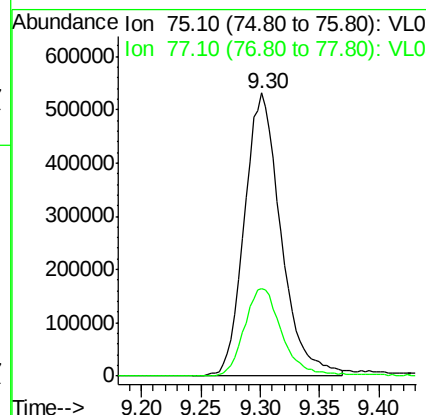
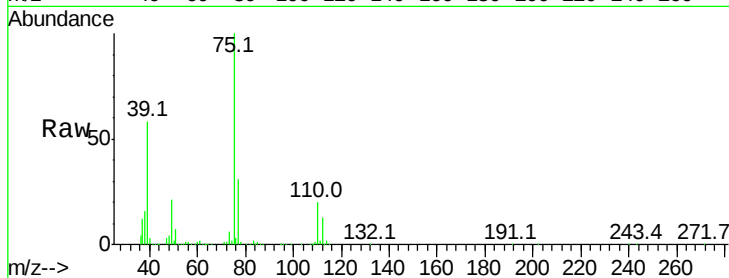
Delta R.T. MSVOA_L

Lab File: ClientSampleId : VSTDCCC010EC

Acq: 8 Apr 2022 9:40

Tgt Ion: 75 Resp: 1127082

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.0	37.4



#46

cis-1,3-Dichloropropene

Concen: 11.24 ppbv

RT: 8.73 min Scan# 1847

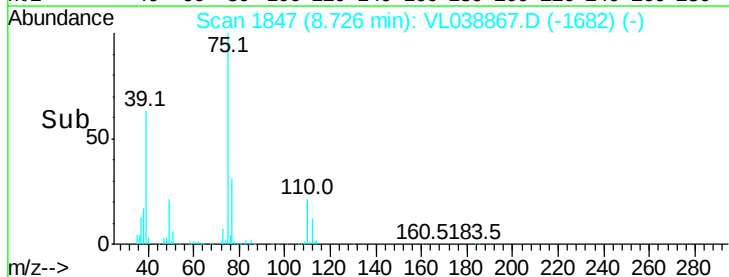
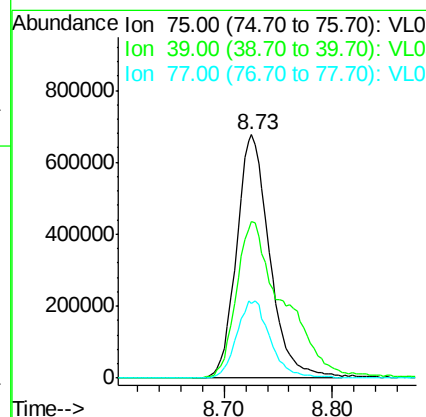
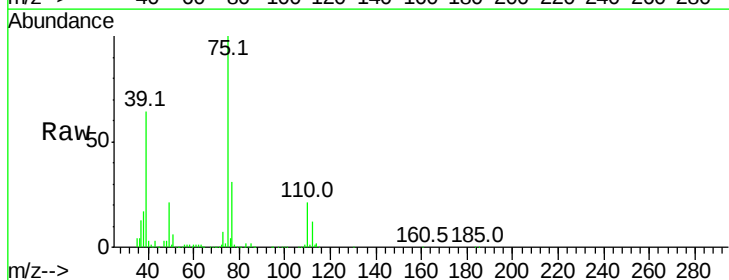
Delta R.T. 0.03 min

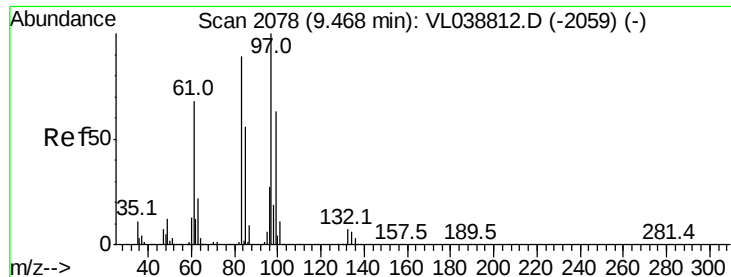
Lab File: VL038867.D

Acq: 8 Apr 2022 9:46

Tgt Ion: 75 Resp: 1443448

Ion	Ratio	Lower	Upper
75	100		
39	64.3	49.7	74.5
77	30.8	25.6	38.4





#47

1,1,2-Trichloroethane

Concen: 11.30 ppbv

RT: 9.50 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Apr 2022 9:46 VSTDCCC010EC

Tgt Ion: 97 Resp: 1077472

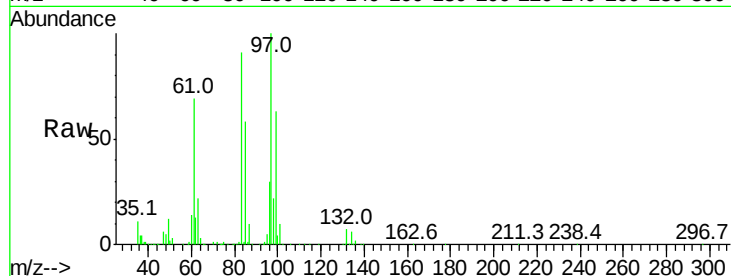
Ion Ratio Lower Upper

97 100

83 90.8 71.1 106.7

85 57.5 45.1 67.7

99 63.2 50.8 76.2

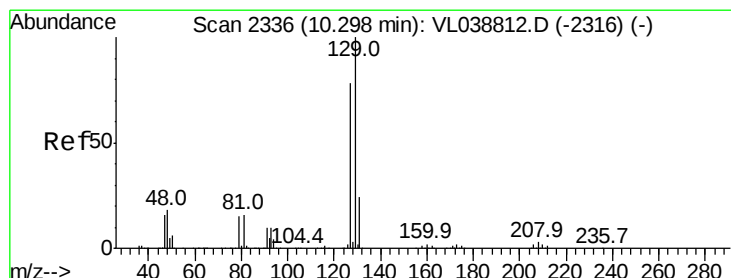
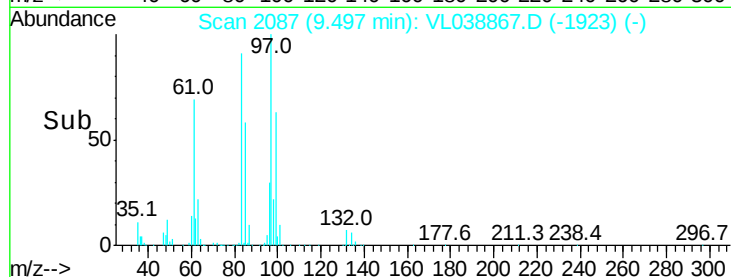
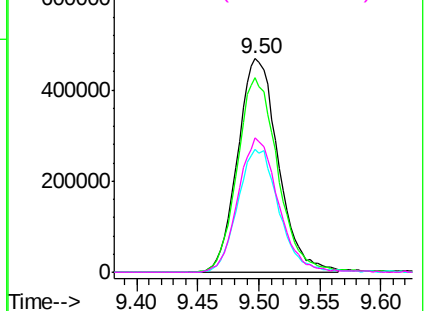


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 11.65 ppbv

RT: 10.33 min Scan# 2346

Delta R.T. 0.03 min

Lab File: VL038867.D

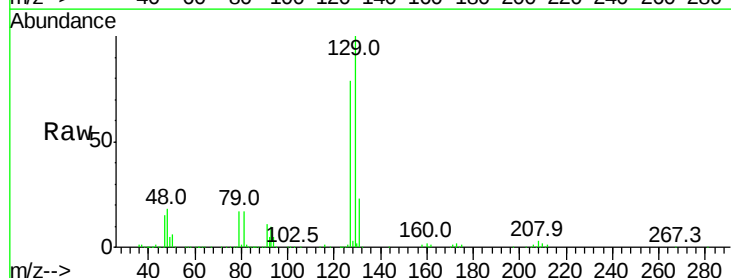
Acq: 8 Apr 2022 9:46

Tgt Ion: 129 Resp: 1741388

Ion Ratio Lower Upper

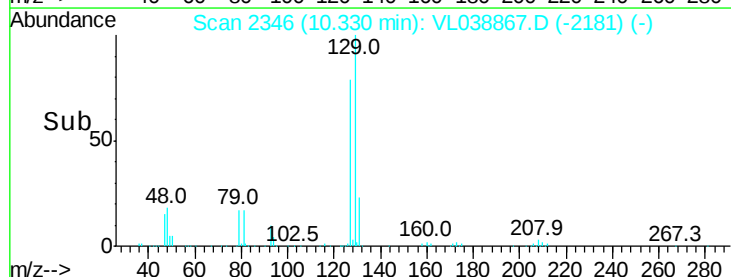
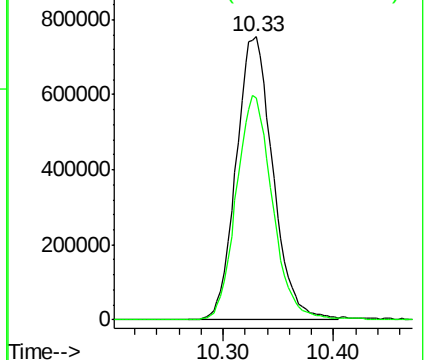
129 100

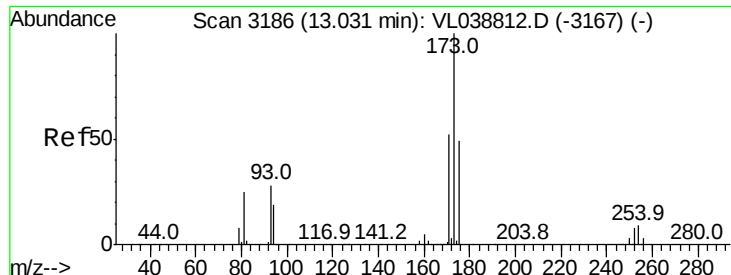
127 78.3 38.9 116.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.81 ppbv

RT: 13.06

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 8 Apr 2022 9:40

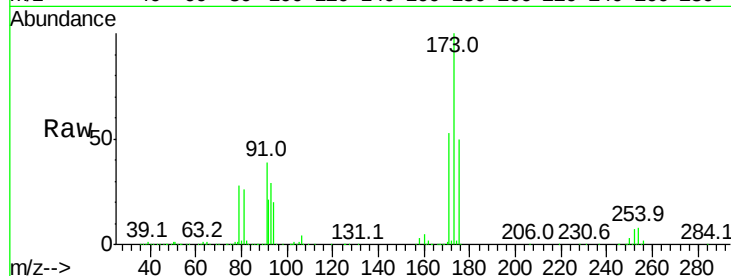
Tgt Ion: 173 Resp: 1397454

Ion Ratio Lower Upper

173 100

175 49.7 39.9 59.9

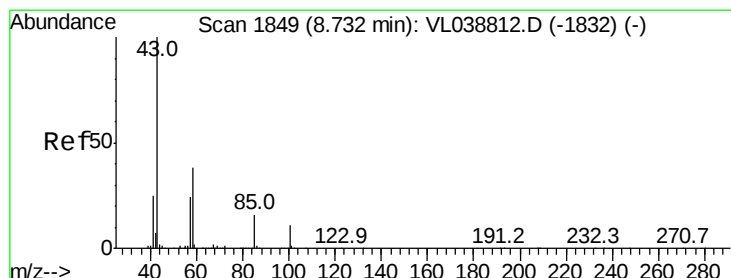
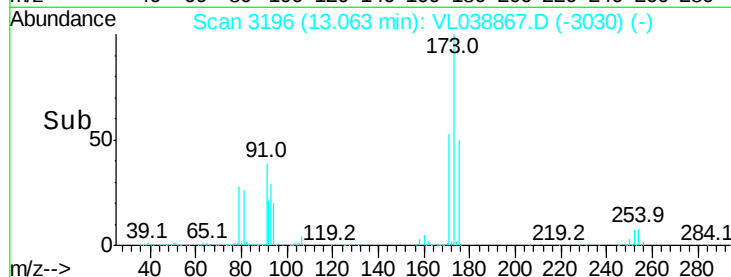
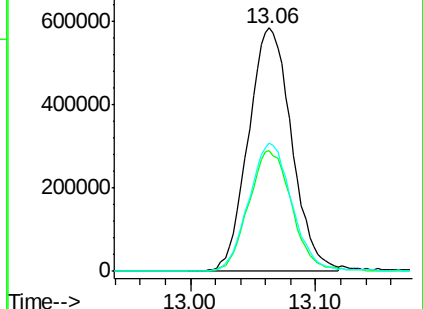
171 53.2 43.4 65.0



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 11.66 ppbv

RT: 8.76 min Scan# 1858

Delta R.T. 0.03 min

Lab File: VL038867.D

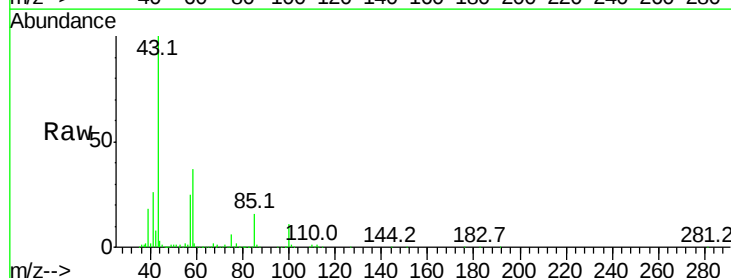
Acq: 8 Apr 2022 9:46

Tgt Ion: 43 Resp: 2772527

Ion Ratio Lower Upper

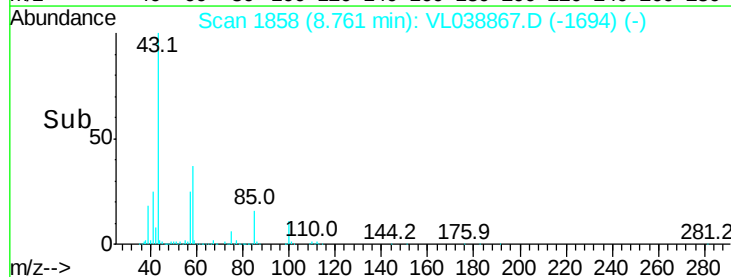
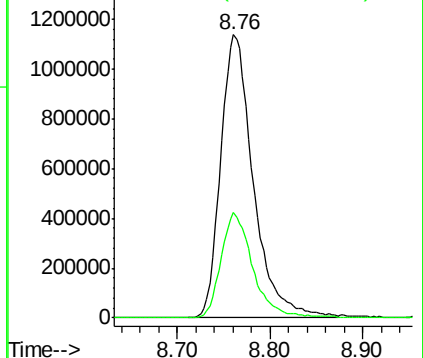
43 100

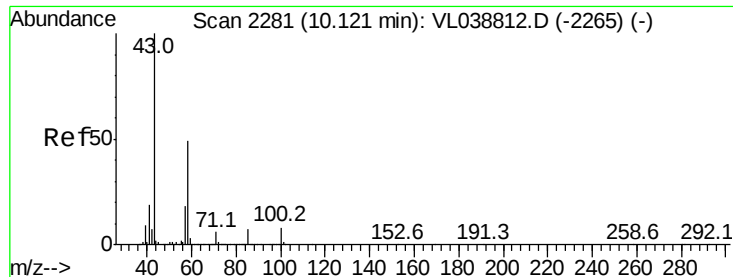
58 36.3 29.0 43.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 11.84 ppbv

RT: 10.15

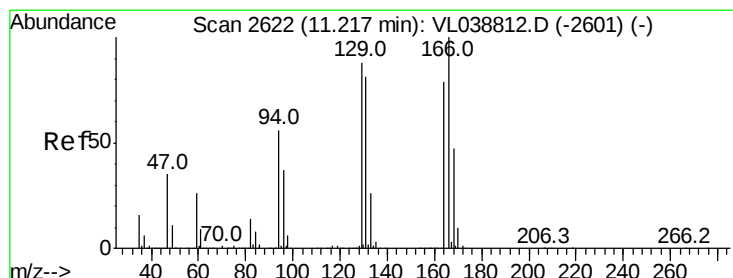
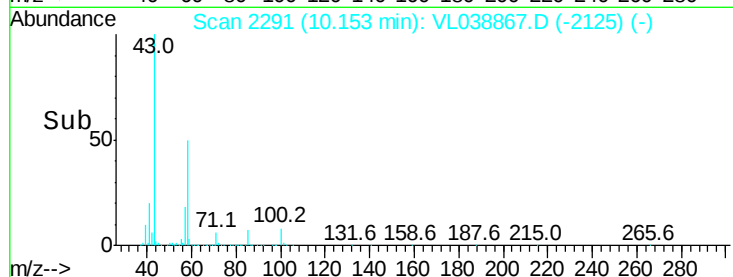
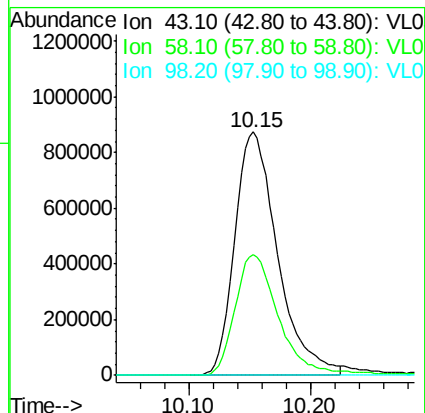
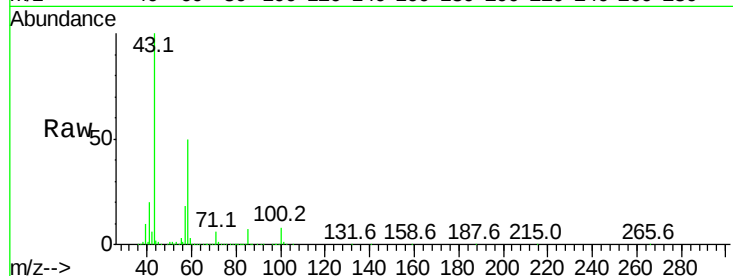
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Apr 2022 9:46

Tgt Ion: 43 Resp: 2120573

Ion	Ratio	Lower	Upper
43	100		
58	51.4	41.4	62.0
98	0.1	0.1	0.1#



#52

Tetrachloroethene

Concen: 10.32 ppbv

RT: 11.25 min Scan# 2632

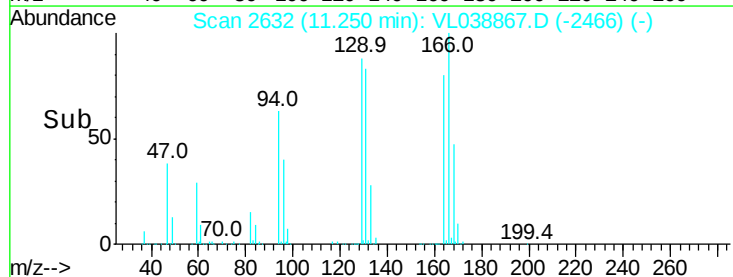
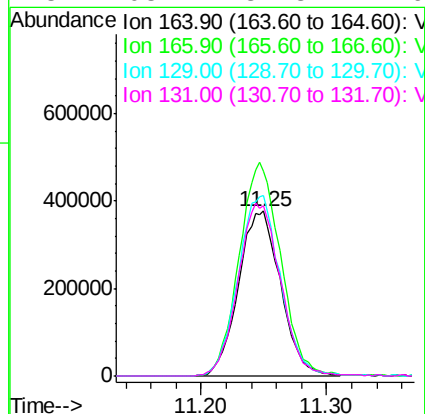
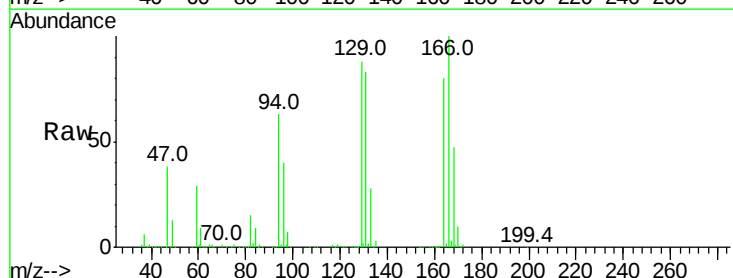
Delta R.T. 0.03 min

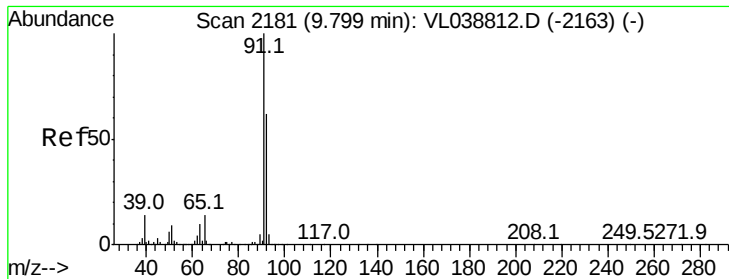
Lab File: VL038867.D

Acq: 8 Apr 2022 9:46

Tgt Ion: 164 Resp: 876752

Ion	Ratio	Lower	Upper
164	100		
166	124.3	101.0	151.6
129	109.4	88.7	133.1
131	103.1	81.8	122.6





#53

Toluene

Concen: 10.92 ppbv

RT: 9.83 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

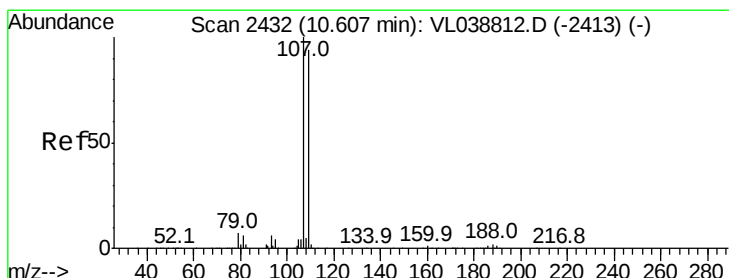
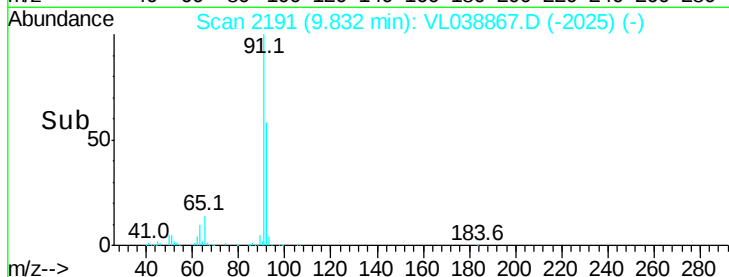
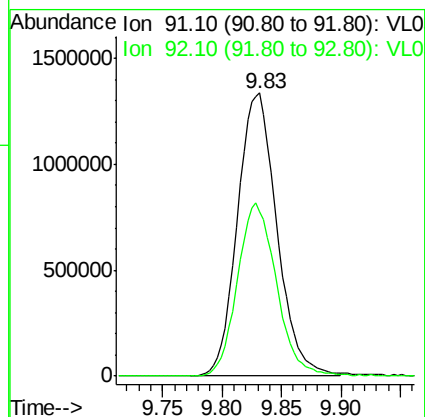
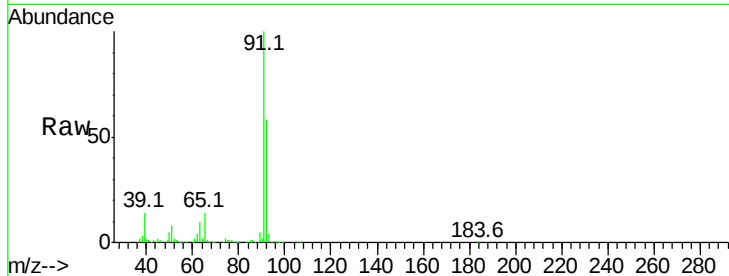
Acq: 8 Apr 2022 9:40 VSTDCCC010EC

Tgt Ion: 91 Resp: 3065863

Ion Ratio Lower Upper

91 100

92 60.7 49.2 73.8



#54

1,2-Dibromoethane

Concen: 11.59 ppbv

RT: 10.63 min Scan# 2440

Delta R.T. 0.03 min

Lab File: VL038867.D

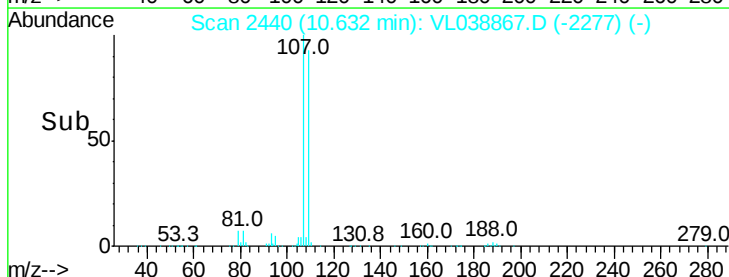
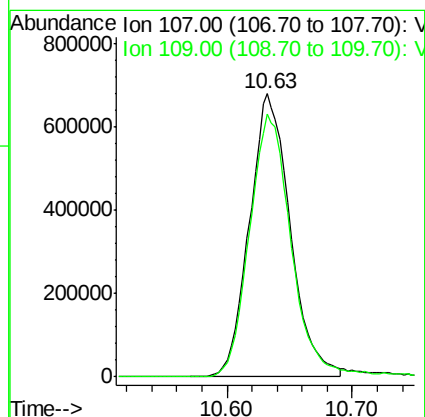
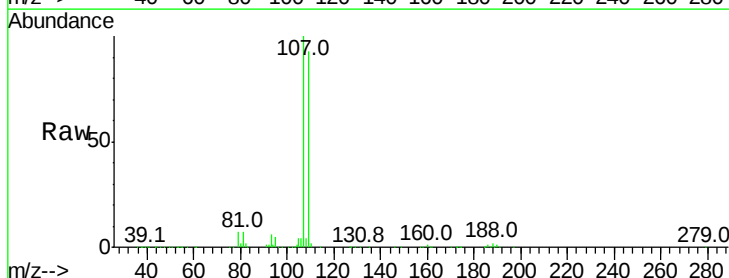
Acq: 8 Apr 2022 9:46

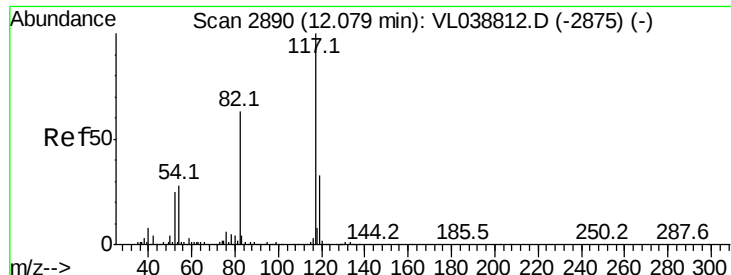
Tgt Ion: 107 Resp: 1535210

Ion Ratio Lower Upper

107 100

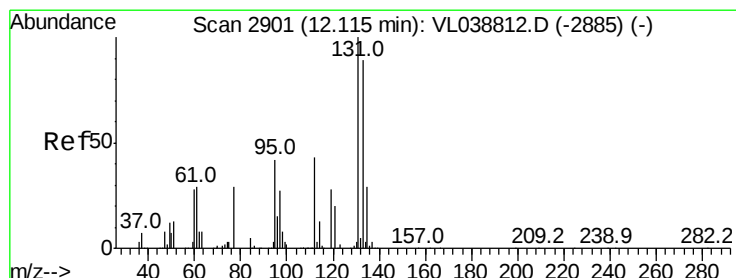
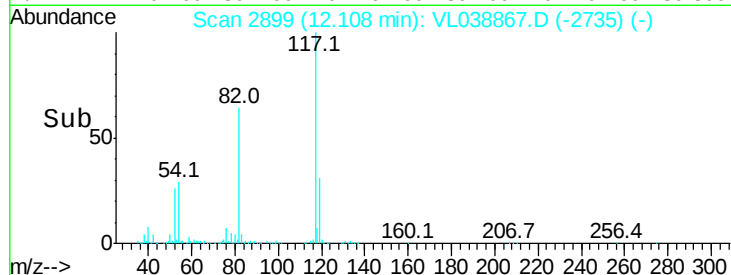
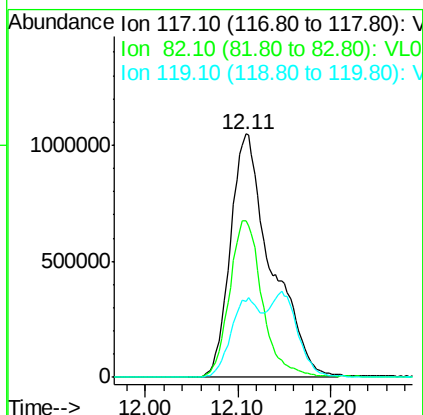
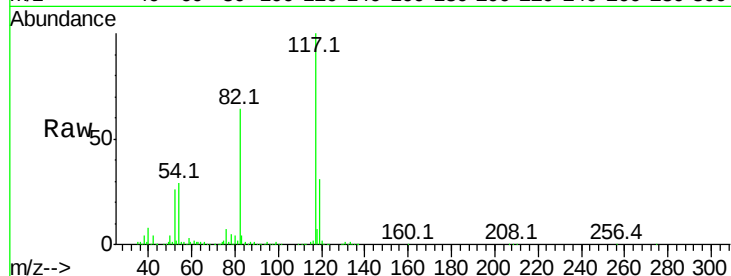
109 92.9 75.5 113.3





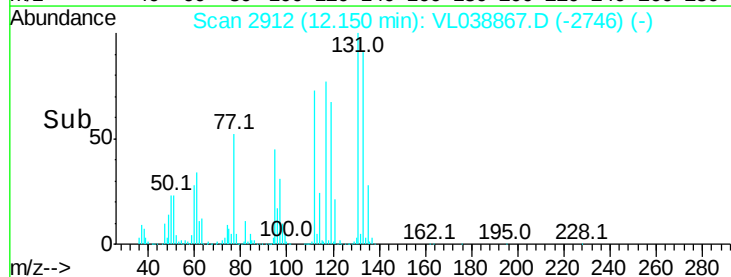
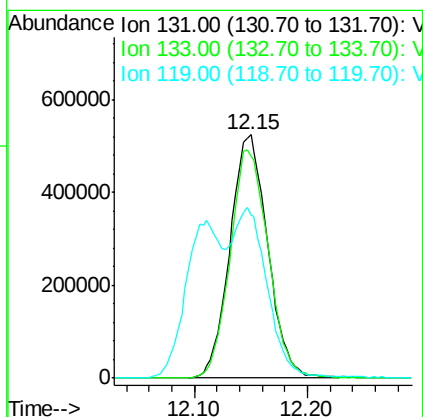
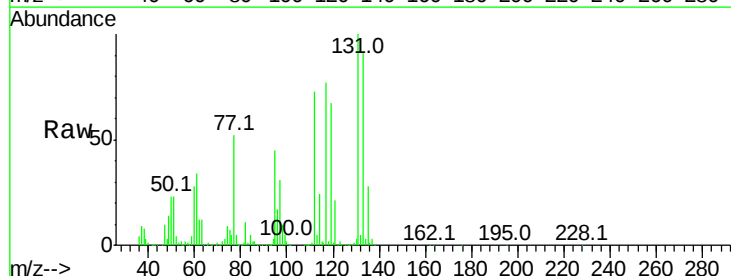
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.11 min
Instrument: MSVOA_1
Delta R.T.: 0.04 min
Lab File: ClientSampleId : VSTDCCC010EC
Acq: 8 Apr 2022 9:40

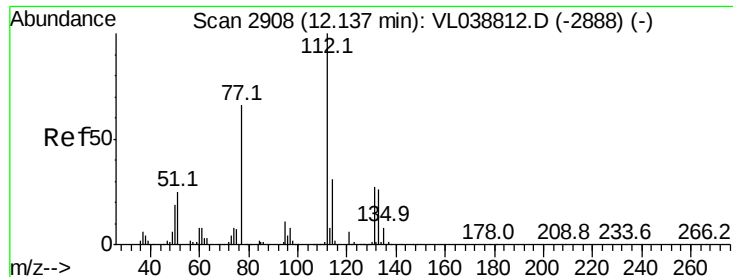
Tgt Ion:117 Resp: 3224376
Ion Ratio Lower Upper
117 100
82 51.8 53.0 79.6#
119 25.3 24.9 37.3



#56
1,1,1,2-Tetrachloroethane
Concen: 8.61 ppbv
RT: 12.15 min Scan# 2912
Delta R.T.: 0.04 min
Lab File: VL038867.D
Acq: 8 Apr 2022 9:46

Tgt Ion:131 Resp: 1216024
Ion Ratio Lower Upper
131 100
133 95.0 78.2 117.4
119 70.2 58.6 87.8





#57

Chlorobenzene

Concen: 8.19 ppbv

RT: 12.17

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Apr 2022 9:40

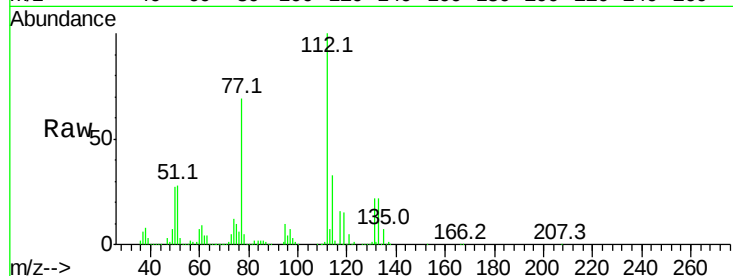
Tgt Ion: 112 Resp: 2163283

Ion Ratio Lower Upper

112 100

77 68.0 52.4 78.6

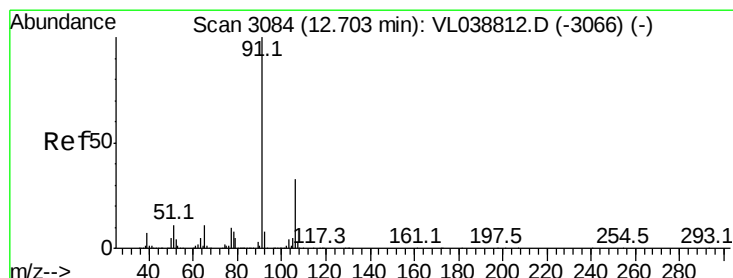
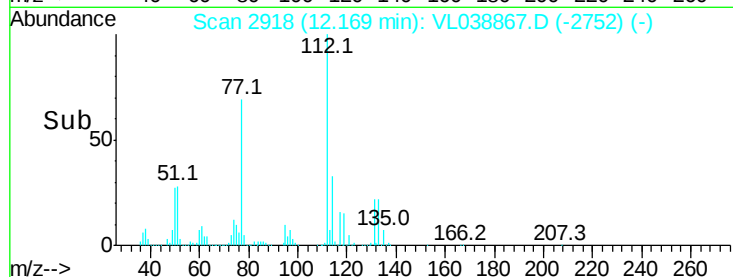
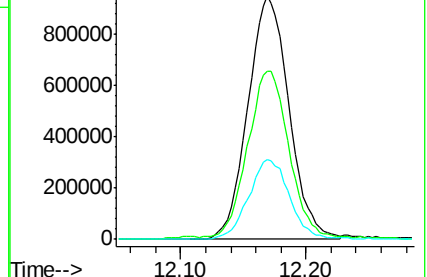
114 32.7 28.1 34.3



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 8.68 ppbv

RT: 12.73 min Scan# 3093

Delta R.T. 0.03 min

Lab File: VL038867.D

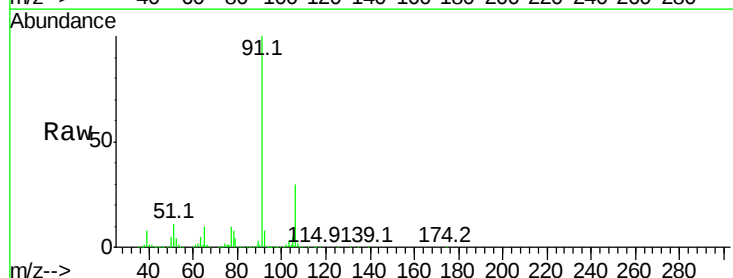
Acq: 8 Apr 2022 9:46

Tgt Ion: 91 Resp: 4180077

Ion Ratio Lower Upper

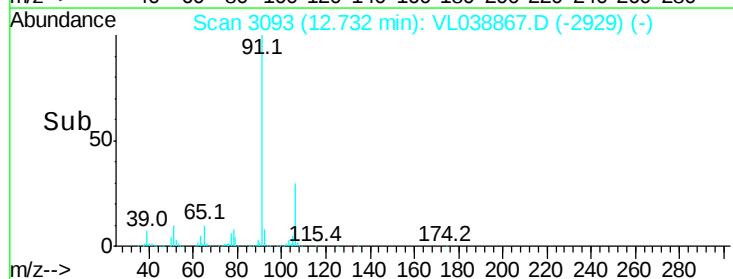
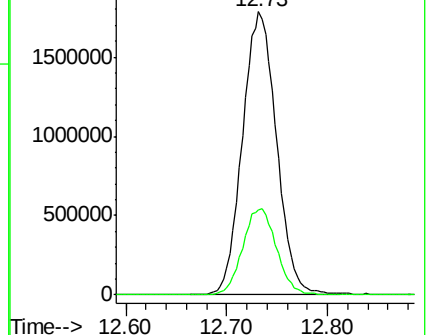
91 100

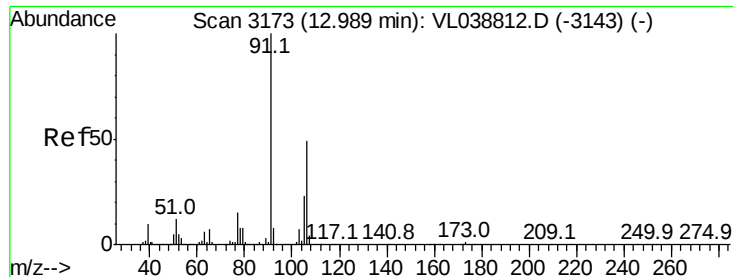
106 30.1 26.7 40.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

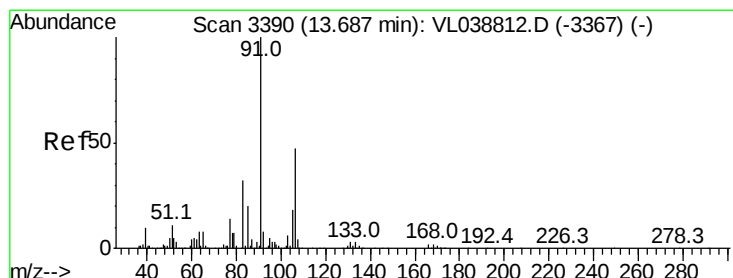
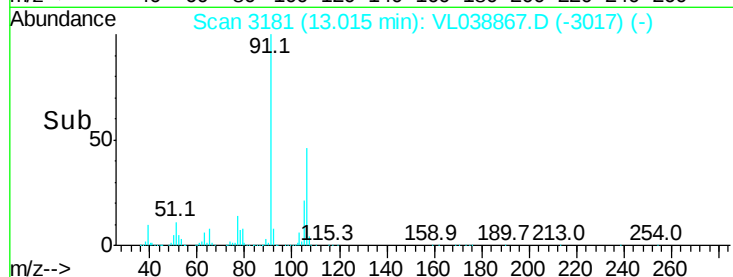
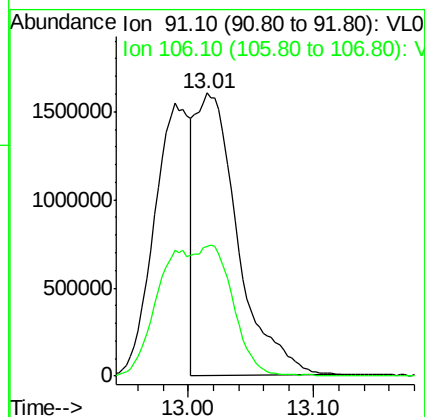
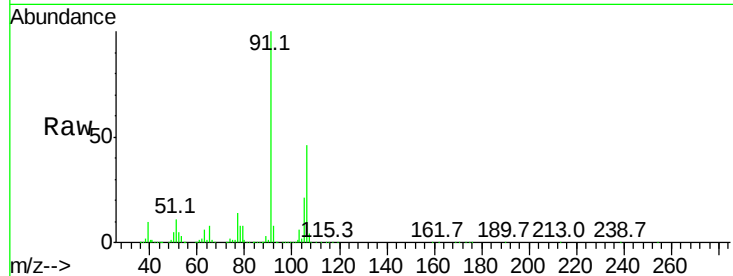
Ion 106.10 (105.80 to 106.80): V





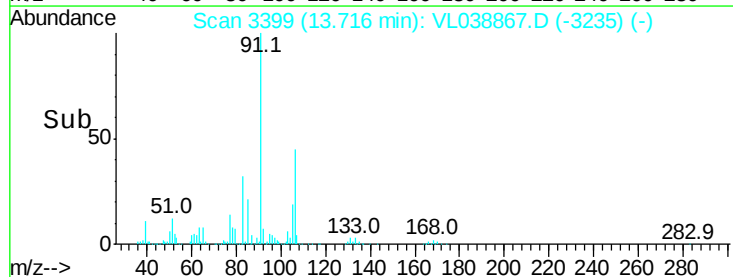
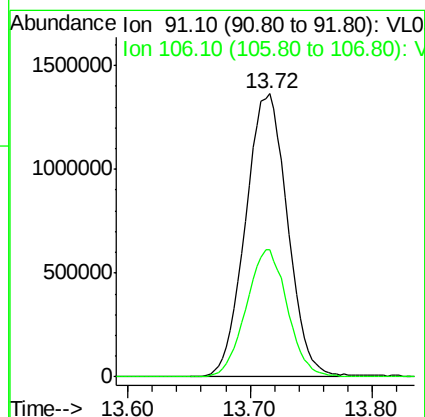
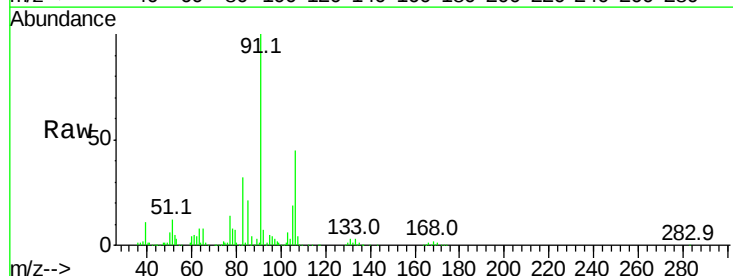
#59
m/p-Xylene
Concen: 9.25 ppbv
RT: 13.01
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 8 Apr 2022 9:40

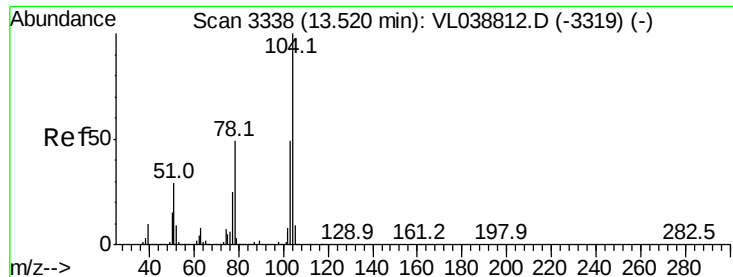
Tgt Ion: 91 Resp: 3743722
Ion Ratio Lower Upper
91 100
106 79.2 37.1 55.7#



#60
o-Xylene
Concen: 8.55 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. 0.03 min
Lab File: VL038867.D
Acq: 8 Apr 2022 9:46

Tgt Ion: 91 Resp: 3238856
Ion Ratio Lower Upper
91 100
106 44.2 23.8 71.4





#61

Styrene

Concen: 8.80 ppbv

RT: 13.55

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Apr 2022 9:40

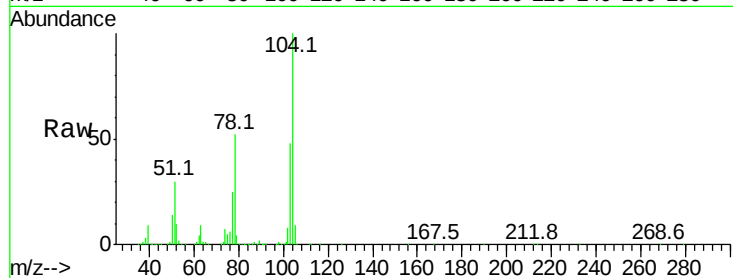
Tgt Ion:104 Resp: 2030037

Ion Ratio Lower Upper

104 100

78 52.5 40.5 60.7

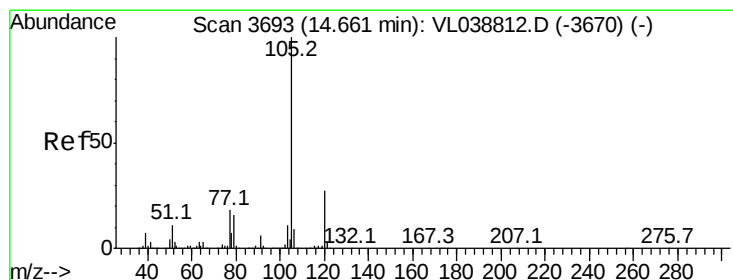
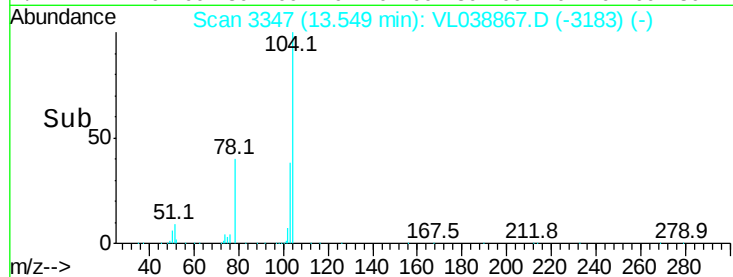
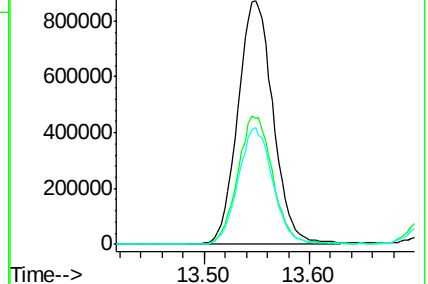
103 47.5 39.0 58.4



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



#62

Isopropylbenzene

Concen: 8.25 ppbv

RT: 14.69 min Scan# 3702

Delta R.T. 0.03 min

Lab File: VL038867.D

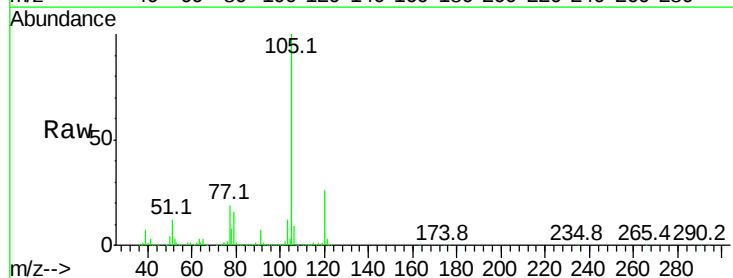
Acq: 8 Apr 2022 9:46

Tgt Ion:105 Resp: 4692434

Ion Ratio Lower Upper

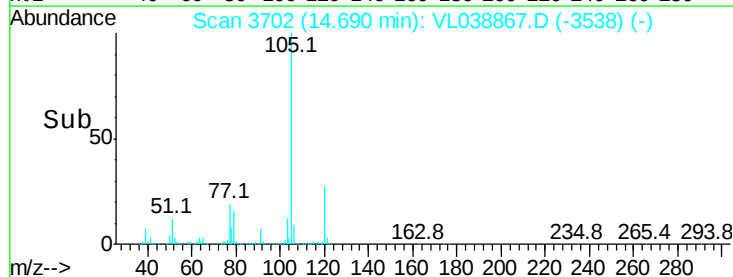
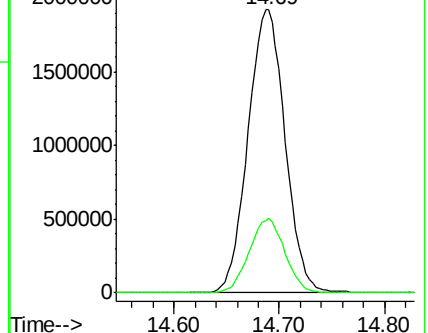
105 100

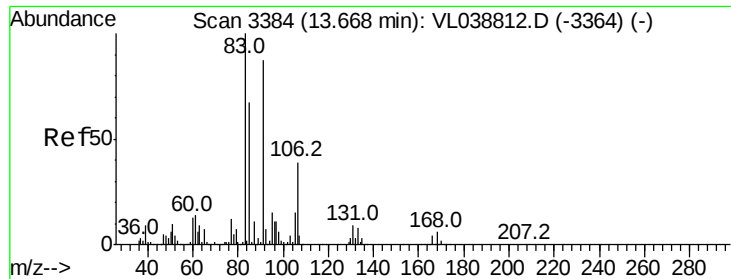
120 25.5 21.8 32.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

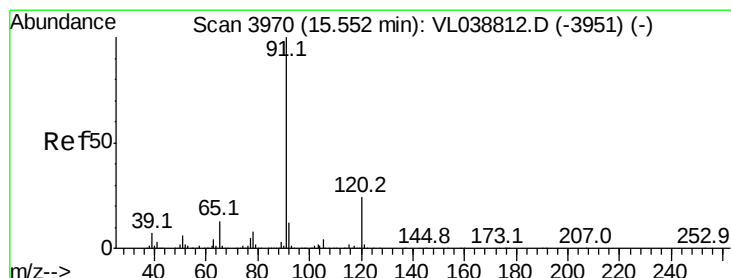
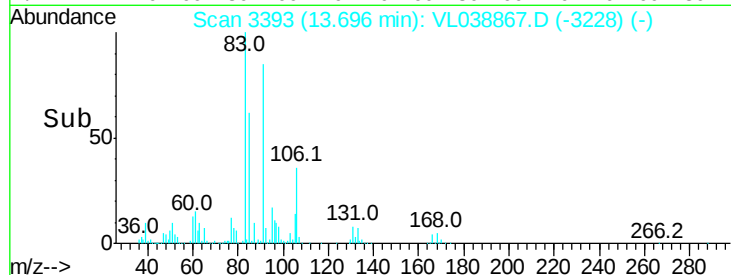
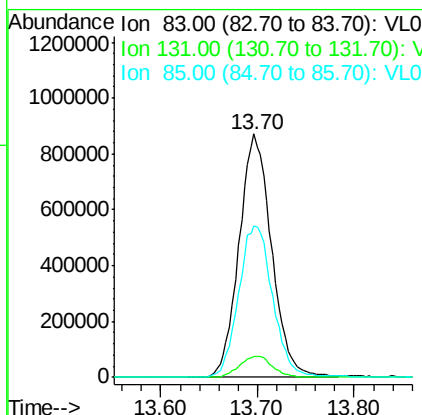
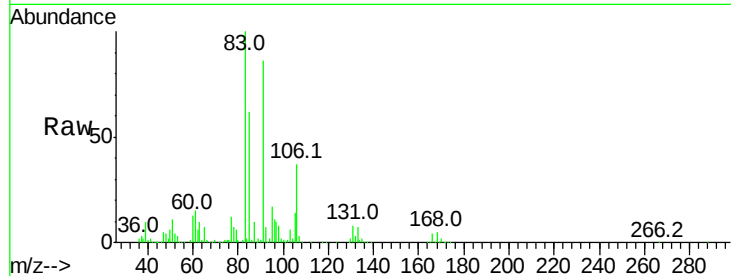




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.48 ppbv
 RT: 13.70 min
 Delta R.T. 0.03 min
 Lab File: VL038867.D
 Acq: 8 Apr 2022 9:46

Tgt Ion: 83 Resp: 2035519

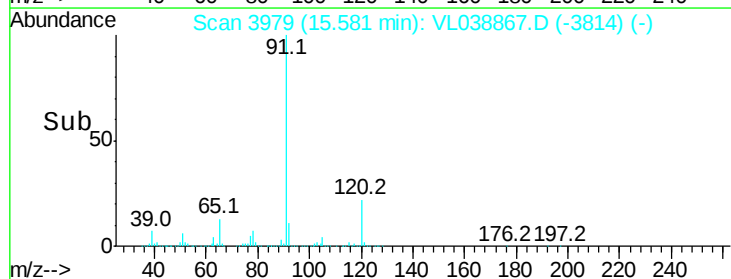
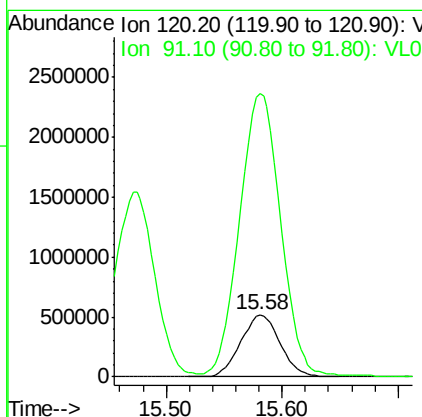
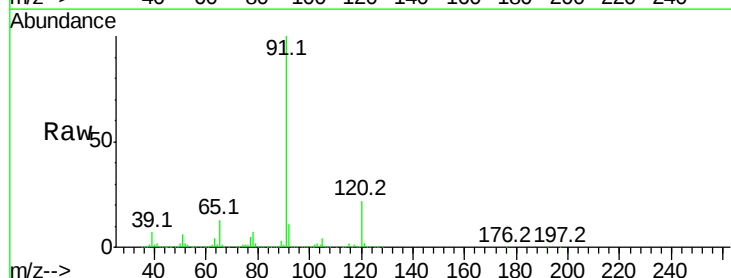
Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.6	13.8
85	65.5	33.0	99.0

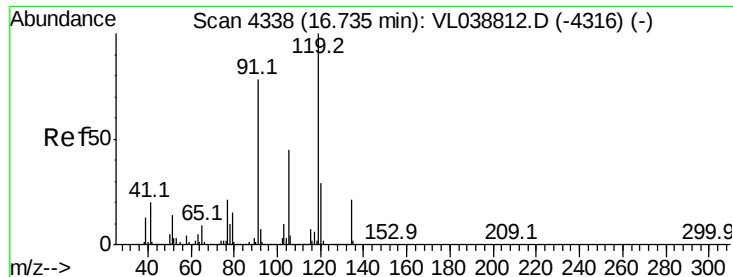


#64
 n-propylbenzene
 Concen: 8.26 ppbv
 RT: 15.58 min Scan# 3979
 Delta R.T. 0.03 min
 Lab File: VL038867.D
 Acq: 8 Apr 2022 9:46

Tgt Ion: 120 Resp: 1220058

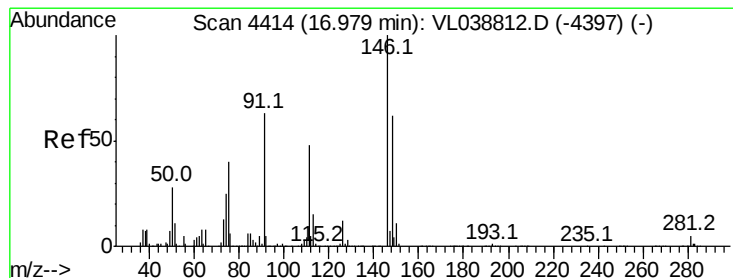
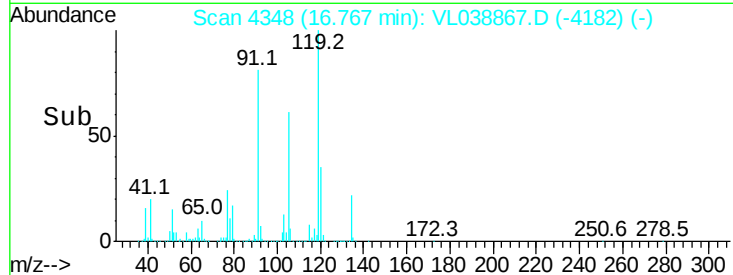
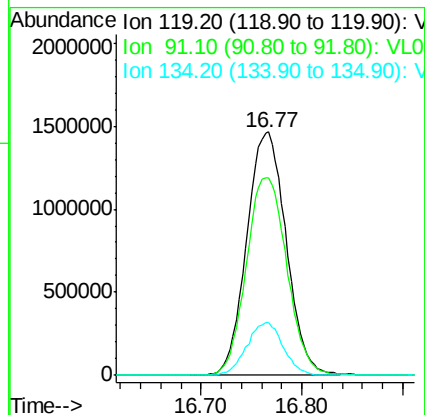
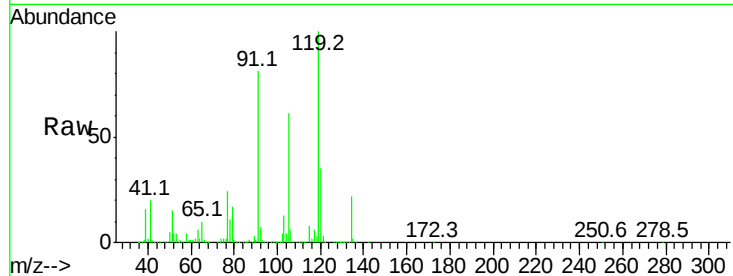
Ion	Ratio	Lower	Upper
120	100		
91	478.6	360.6	540.8





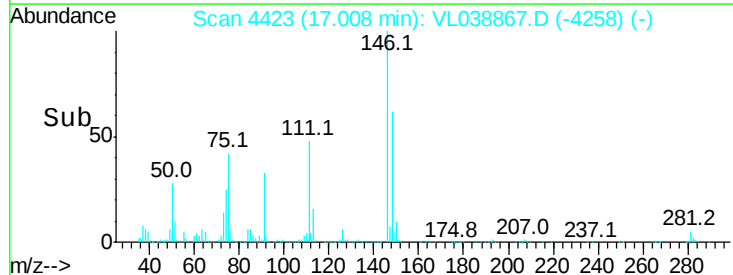
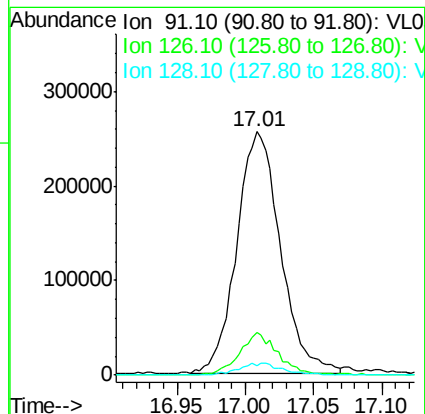
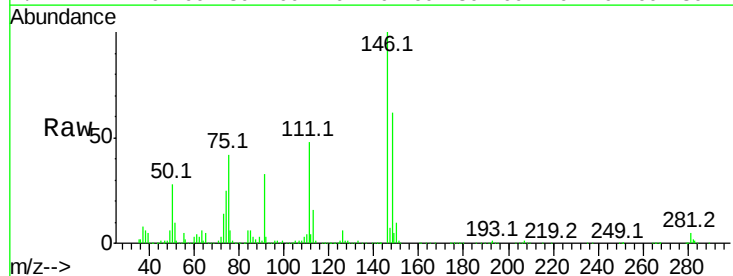
#65
 tert-Butylbenzene
 Concen: 7.88 ppbv
 RT: 16.77 min
 Instrument: MSVOA_1
 Delta R.T.:
 ClientSampleId:
 Lab File: VSTDCCC010EC
 Acq: 8 Apr 2022 9:46

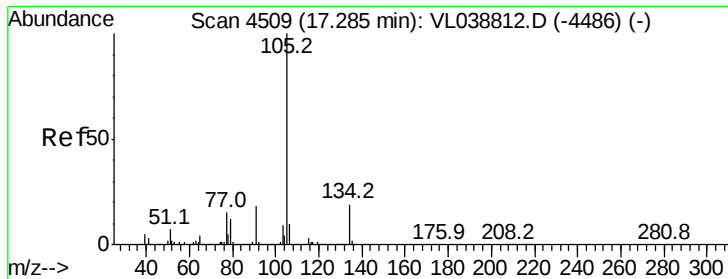
Tgt Ion	Ratio	Lower	Upper
119	100		
91	83.7	62.8	94.2
134	20.2	16.2	24.4



#66
 Benzyl Chloride
 Concen: 5.51 ppbv
 RT: 17.01 min Scan# 4423
 Delta R.T.: 0.03 min
 Lab File: VL038867.D
 Acq: 8 Apr 2022 9:46

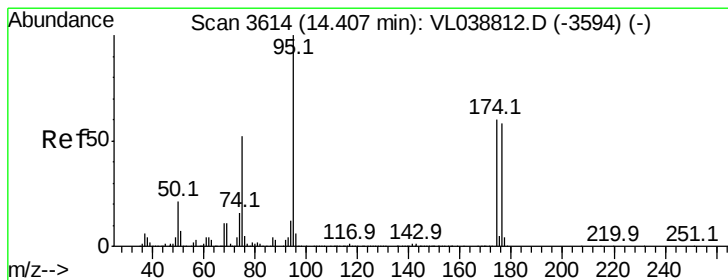
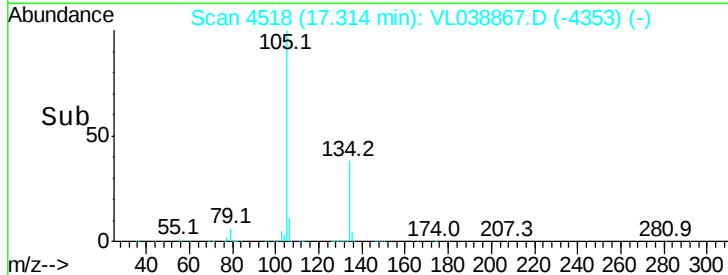
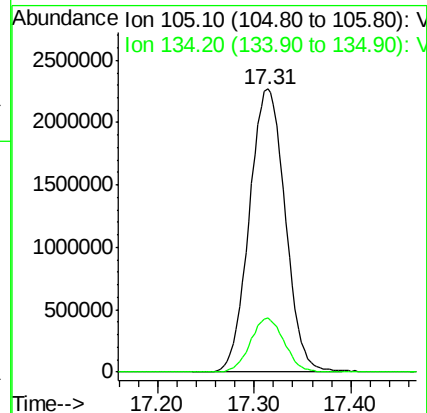
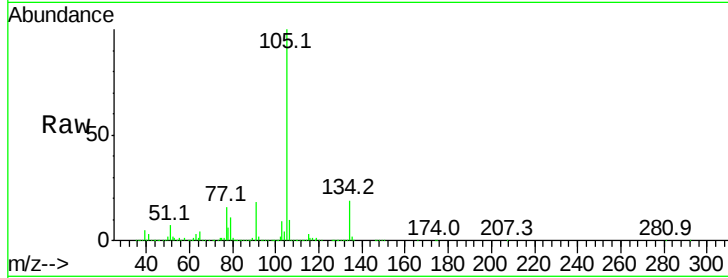
Tgt Ion	Ratio	Lower	Upper
91	100		
126	15.9	15.4	23.0
128	5.1	4.7	7.1





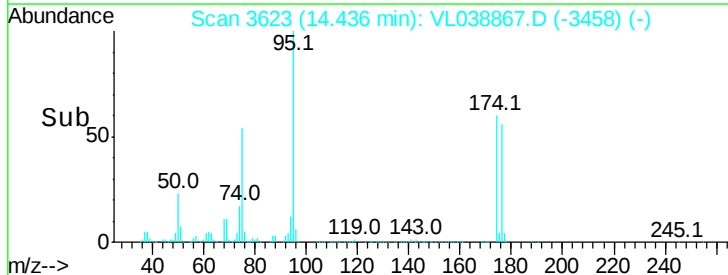
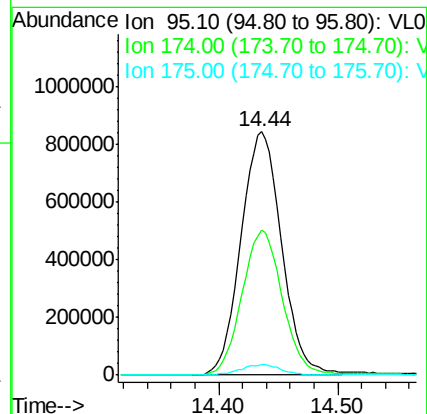
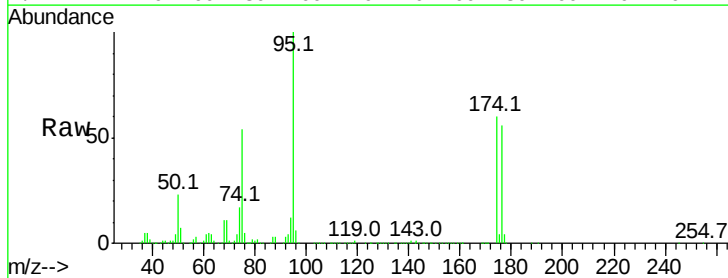
#67
 sec-Butylbenzene
 Concen: 8.25 ppbv
 RT: 17.31 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 VSTDCCC010EC
 Acq: 8 Apr 2022 9:48

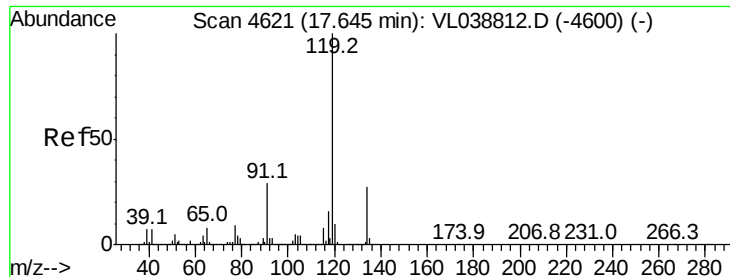
Tgt Ion: 105 Resp: 5842537
 Ion Ratio Lower Upper
 105 100
 134 18.1 15.1 22.7



#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.17 ppbv
 RT: 14.44 min Scan# 3623
 Delta R.T. 0.03 min
 Lab File: VL038867.D
 Acq: 8 Apr 2022 9:46

Tgt Ion: 95 Resp: 1997031
 Ion Ratio Lower Upper
 95 100
 174 60.3 52.0 78.0
 175 4.4 4.0 6.0

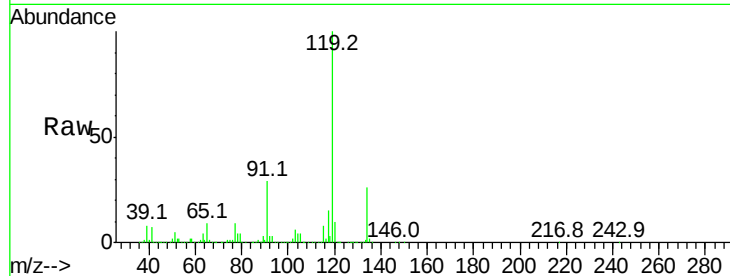




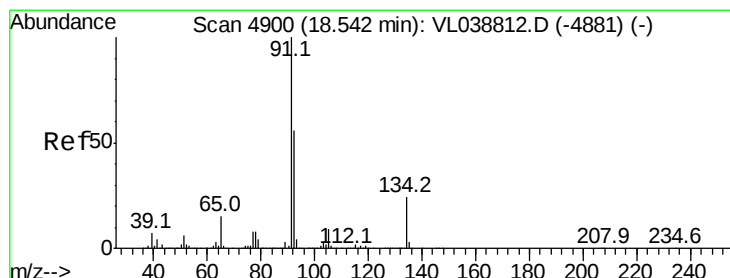
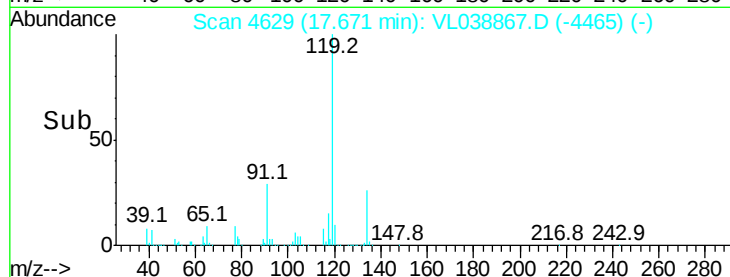
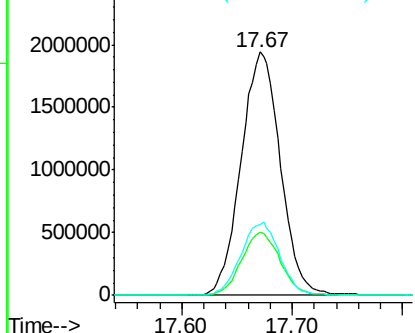
#69
 p-Isopropyltoluene
 Concen: 8.25 ppbv
 RT: 17.67 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 VSTDCCC010EC
 Acq: 8 Apr 2022 9:40

Tgt Ion: 119 Resp: 4794007

Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.8	31.2
91	30.0	22.6	34.0



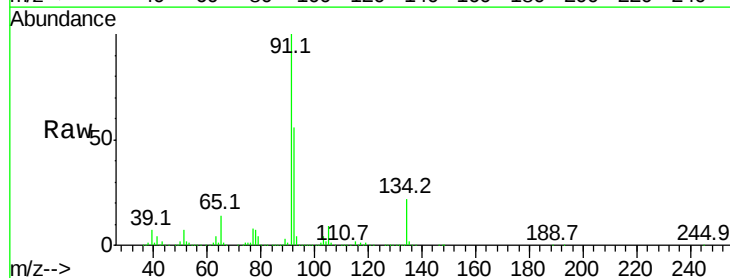
Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): VL0



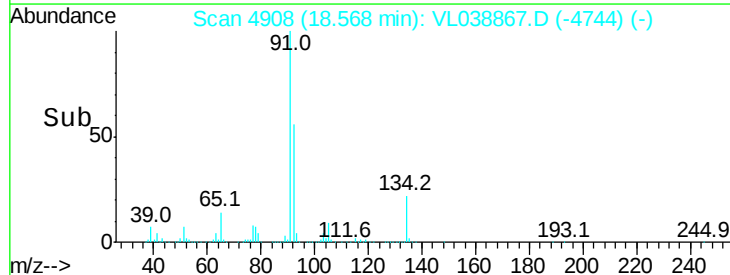
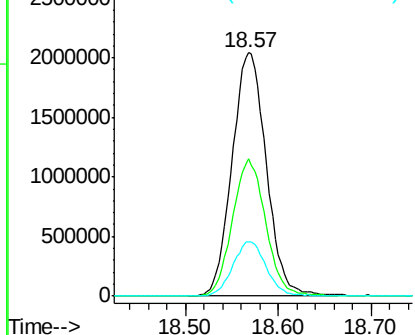
#70
 n-Butylbenzene
 Concen: 8.94 ppbv
 RT: 18.57 min Scan# 4908
 Delta R.T.: 0.03 min
 Lab File: VL038867.D
 Acq: 8 Apr 2022 9:46

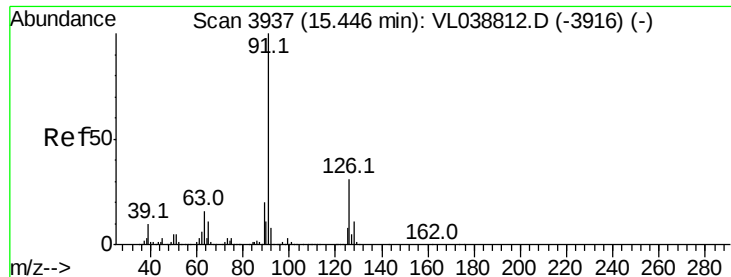
Tgt Ion: 91 Resp: 5231686

Ion	Ratio	Lower	Upper
91	100		
92	54.8	44.6	66.8
134	21.9	19.2	28.8



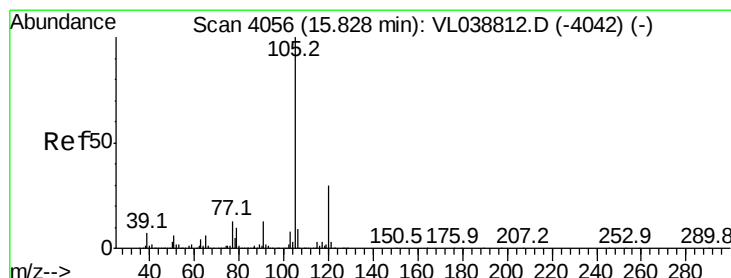
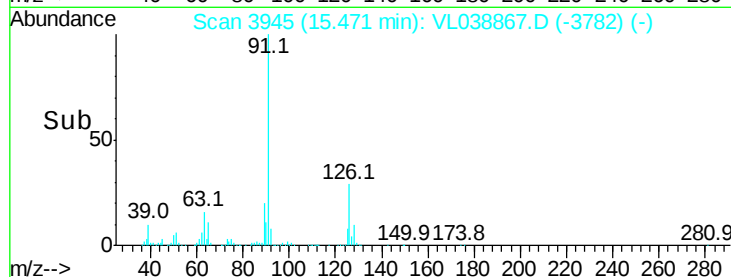
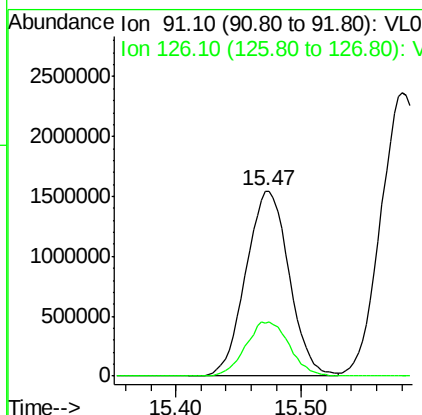
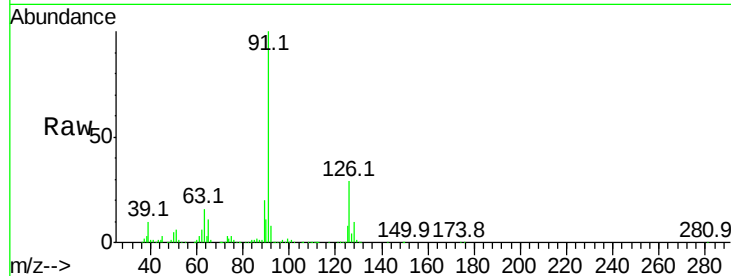
Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





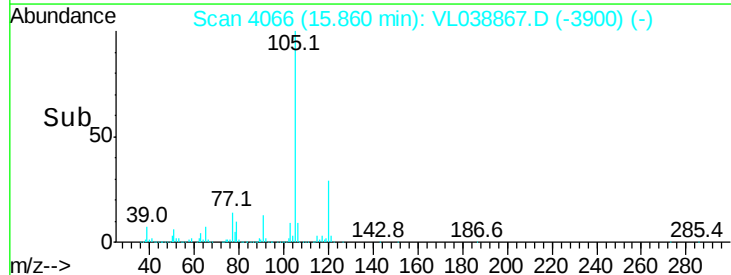
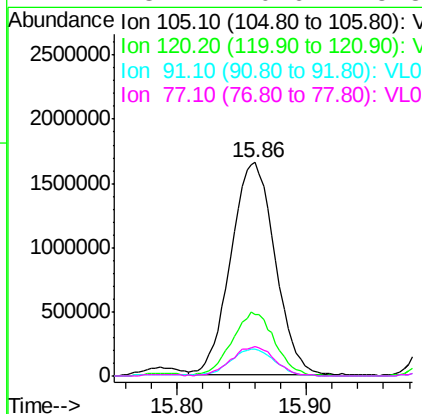
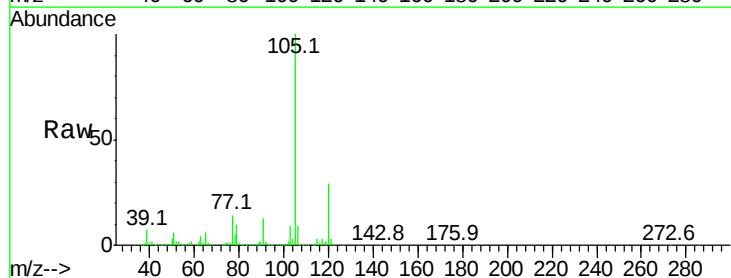
#71
 2-Chlorotoluene
 Concen: 8.68 ppbv
 RT: 15.47
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 VSTDCCC010EC
 Acq: 8 Apr 2022 9:46

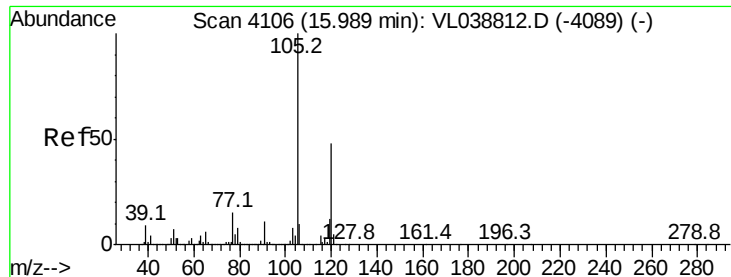
Tgt Ion: 91 Resp: 3708729
 Ion Ratio Lower Upper
 91 100
 126 29.8 13.0 51.8



#72
 4-Ethyltoluene
 Concen: 8.72 ppbv
 RT: 15.86 min Scan# 4066
 Delta R.T. 0.03 min
 Lab File: VL038867.D
 Acq: 8 Apr 2022 9:46

Tgt Ion: 105 Resp: 3945517
 Ion Ratio Lower Upper
 105 100
 120 29.0 24.3 36.5
 91 12.6 9.4 14.2
 77 13.7 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 8.65 ppbv

RT: 16.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

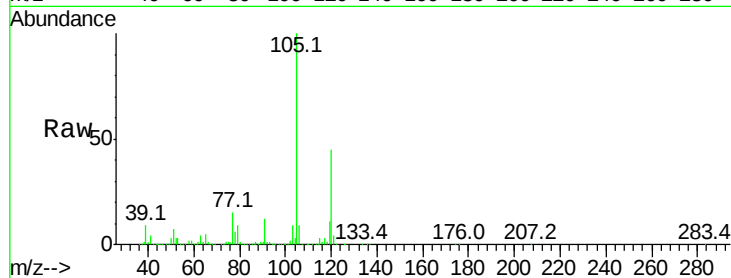
Acq: 8 Apr 2022 9:46

Tgt Ion:105 Resp: 3516200

Ion Ratio Lower Upper

105 100

120 45.3 38.7 58.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.01

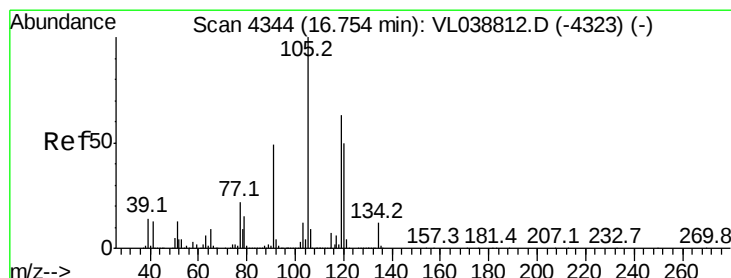
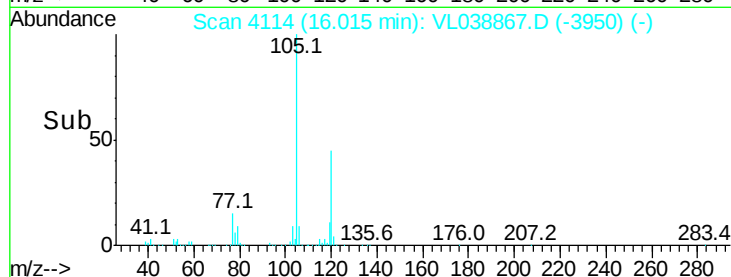
1500000

1000000

500000

0

Time--> 15.90 16.00 16.10



#74

1,2,4-Trimethylbenzene

Concen: 8.43 ppbv

RT: 16.78 min Scan# 4353

Delta R.T. 0.03 min

Lab File: VL038867.D

Acq: 8 Apr 2022 9:46

Tgt Ion:105 Resp: 3622030

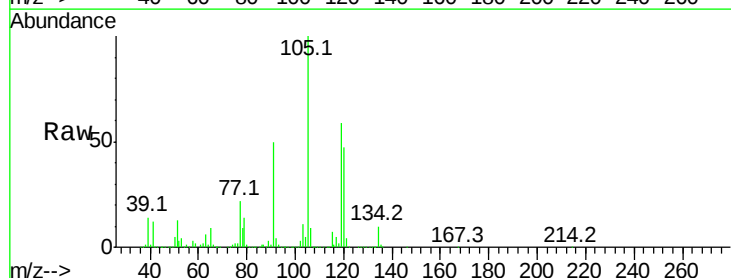
Ion Ratio Lower Upper

105 100

120 46.6 39.8 59.8

91 49.6 39.4 59.0

77 22.1 17.3 25.9



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

2000000

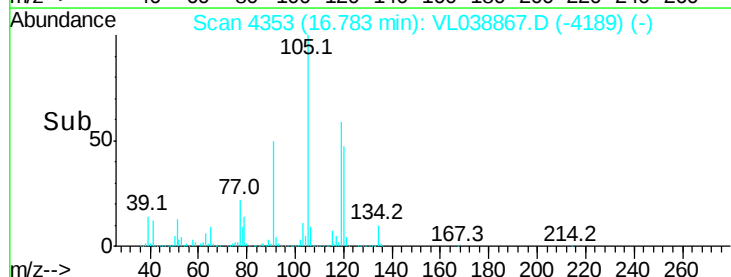
1500000

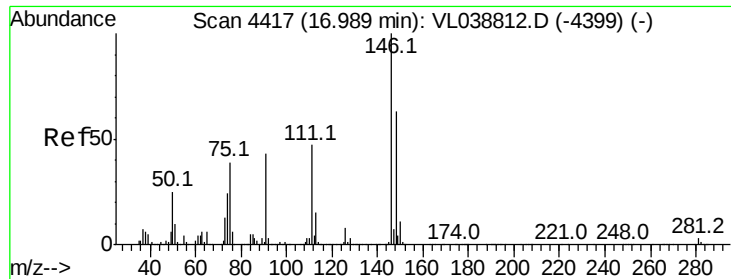
1000000

500000

0

Time--> 16.70 16.80 16.90





#75

1,3-Dichlorobenzene

Concen: 8.33 ppbv

RT: 17.02

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

VSTDCCC010EC

Acq: 8 Apr 2022 9:40

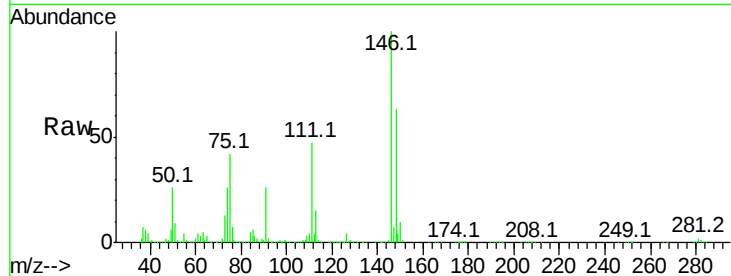
Tgt Ion:146 Resp: 2078506

Ion Ratio Lower Upper

146 100

111 47.9 23.8 71.2

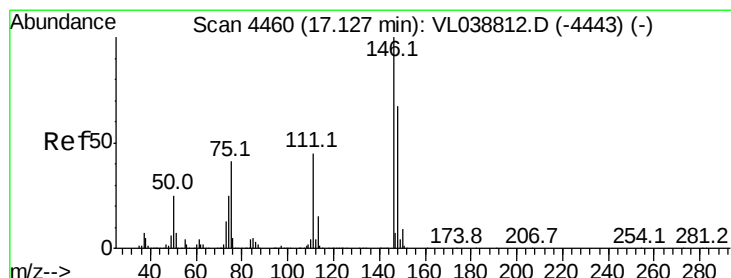
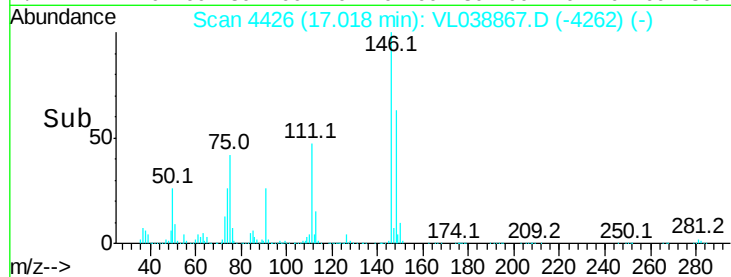
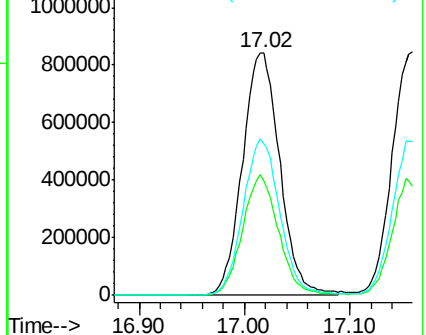
148 63.6 31.8 95.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.16 ppbv

RT: 17.16 min Scan# 4470

Delta R.T. 0.03 min

Lab File: VL038867.D

Acq: 8 Apr 2022 9:46

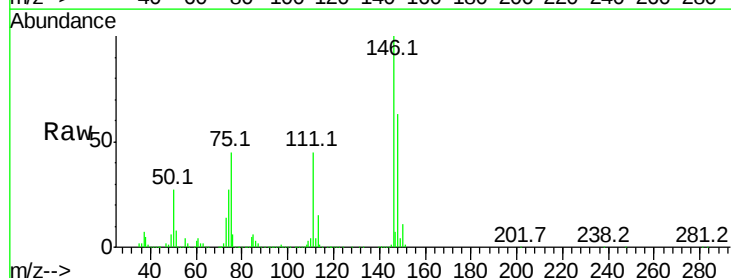
Tgt Ion:146 Resp: 2005033

Ion Ratio Lower Upper

146 100

111 48.3 23.6 70.8

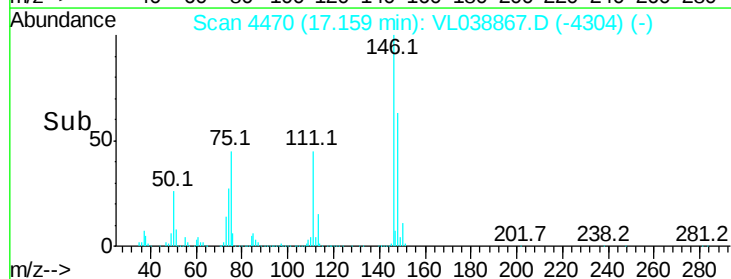
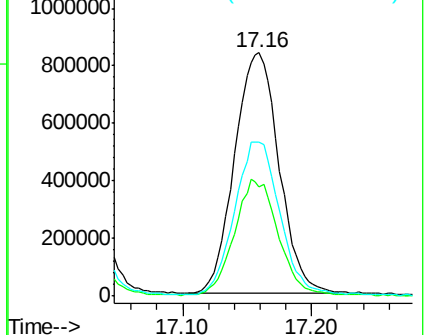
148 66.4 33.6 100.6

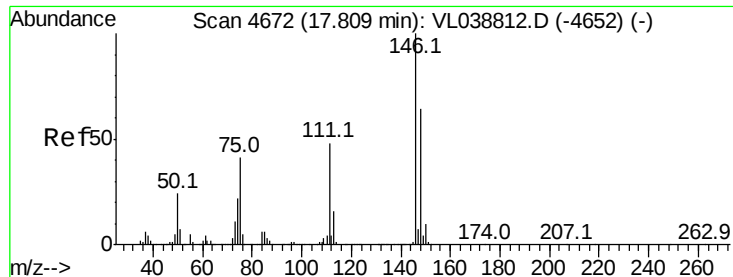


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 8.20 ppbv

RT: 17.83

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Apr 2022 9:48

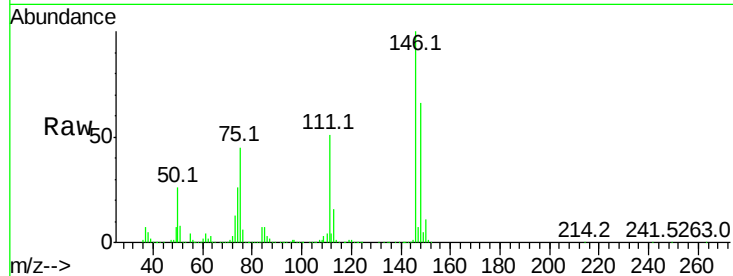
Tgt Ion:146 Resp: 2015800

Ion Ratio Lower Upper

146 100

111 49.9 24.8 74.3

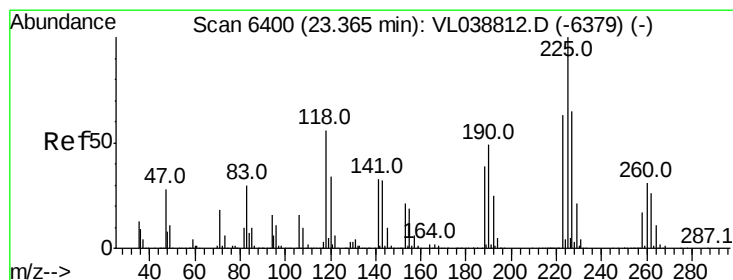
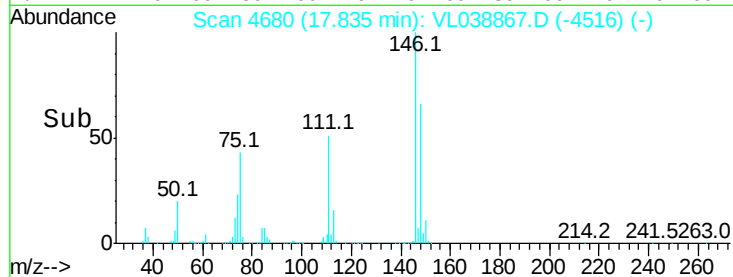
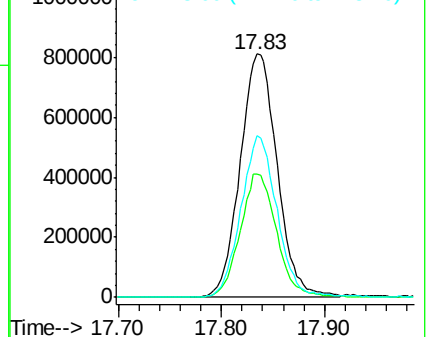
148 65.5 31.9 95.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 7.33 ppbv

RT: 23.39 min Scan# 6408

Delta R.T. 0.03 min

Lab File: VL038867.D

Acq: 8 Apr 2022 9:46

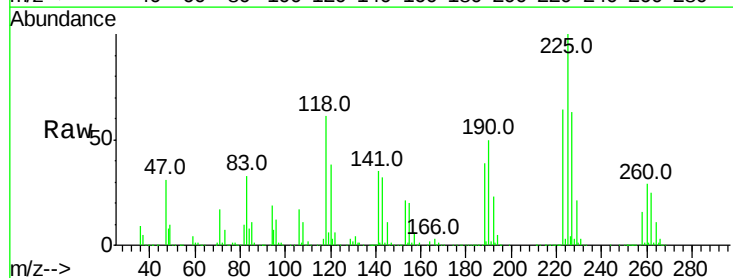
Tgt Ion:225 Resp: 1423280

Ion Ratio Lower Upper

225 100

223 62.8 51.6 77.4

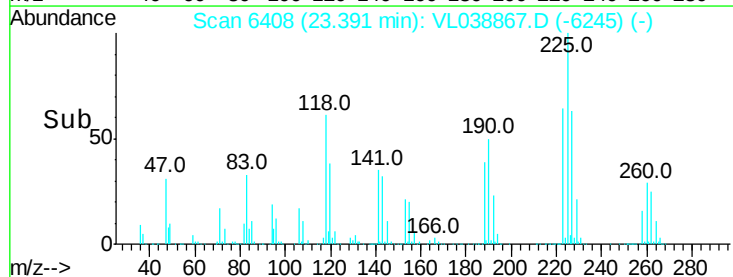
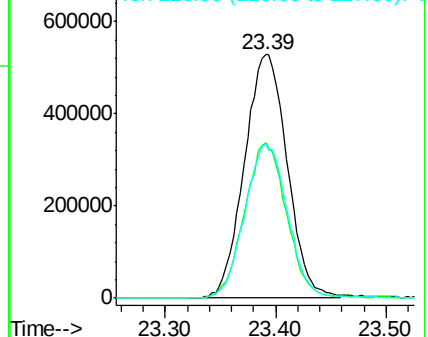
227 63.9 52.3 78.5

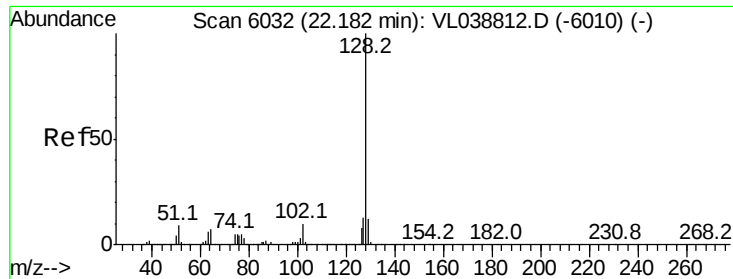


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 3.79 ppbv

RT: 22.22

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 8 Apr 2022 9:40

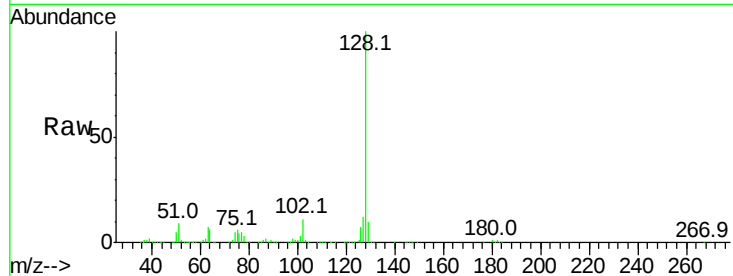
Tgt Ion:128 Resp: 1218002

Ion Ratio Lower Upper

128 100

127 12.2 10.6 15.8

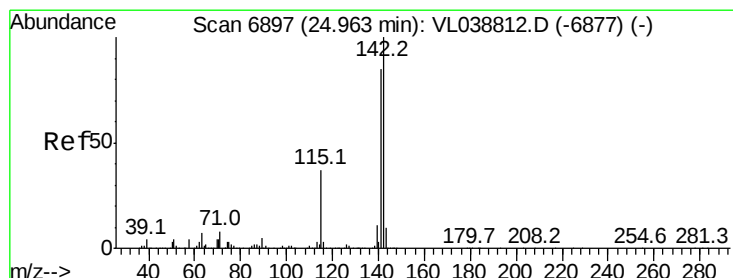
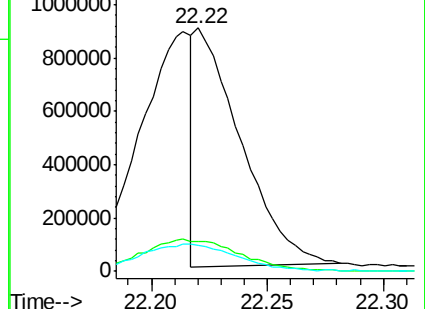
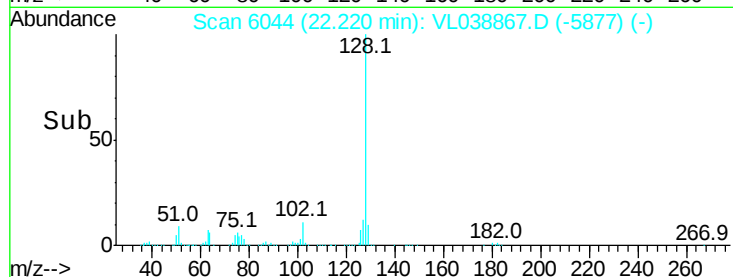
129 10.4 9.4 14.0



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 7.14 ppbv

RT: 24.98 min Scan# 6902

Delta R.T. 0.02 min

Lab File: VL038867.D

Acq: 8 Apr 2022 9:46

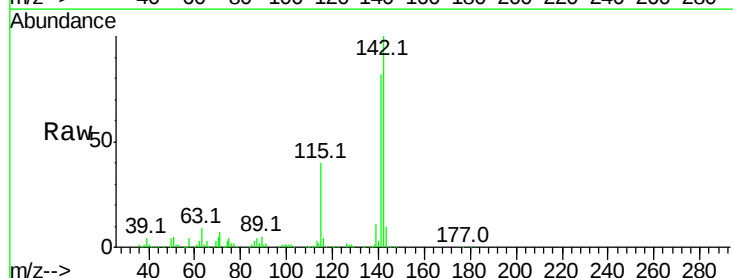
Tgt Ion:142 Resp: 565459

Ion Ratio Lower Upper

142 100

141 84.2 68.8 103.2

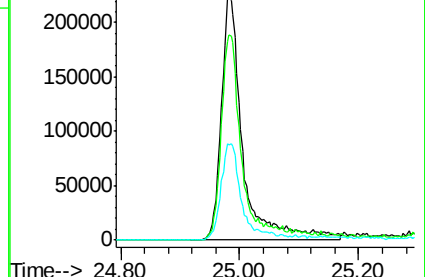
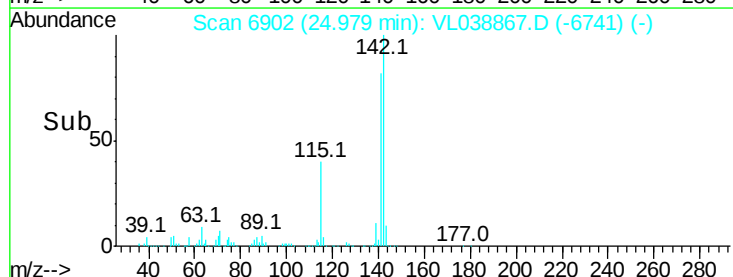
115 39.0 31.6 47.4

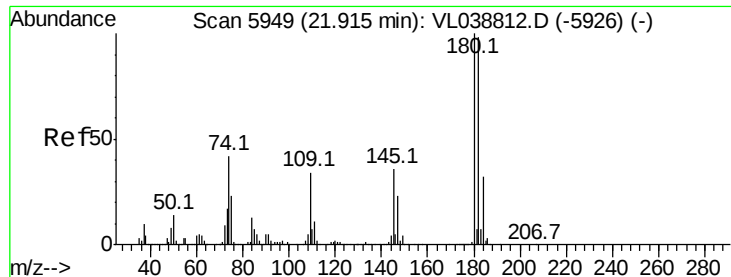


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

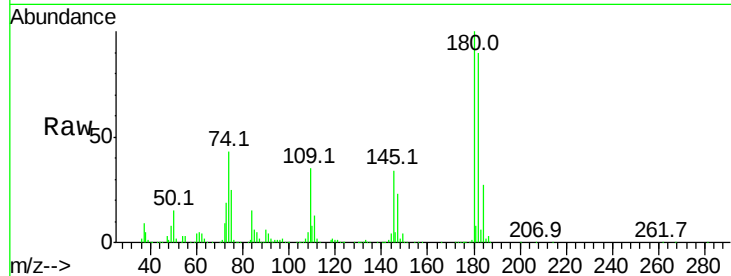
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 8.23 ppbv
 RT: 21.94
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 VSTDCCC010EC
 Acq: 8 Apr 2022 9:48

Tgt Ion:180 Resp: 1547514
 Ion Ratio Lower Upper
 180 100
 182 98.6 79.4 119.0
 184 31.0 25.0 37.6



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

