

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052019\
 Data File : VL033737.D
 Acq On : 21 May 2019 8:48
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 21 10:44:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	995306	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2331858	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2445550m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2015441	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.07	85	1373588	6.548 ppbv	99
3) Chlorodifluoromethane	3.01	51	1137787	9.980 ppbv	99
4) Chloromethane	3.17	50	623876	9.567 ppbv	99
5) Vinyl Chloride	3.29	62	634043	9.545 ppbv	99
6) Bromomethane	3.51	94	401030	9.895 ppbv	100
7) Chloroethane	3.60	64	234393	9.929 ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1630305	9.641 ppbv	100
9) Propene	3.03	41	463358	9.555 ppbv	99
10) Heptane	8.24	43	1284658	9.355 ppbv	100
11) Trichlorofluoromethane	4.00	101	1991085	9.946 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1341896	9.599 ppbv	99
13) Ethanol	3.64	45	108407	6.917 ppbv	99
14) Bromoethene	3.78	108	518609	10.091 ppbv	98
15) Acetone	3.90	43	1250146	9.053 ppbv	98
16) 1,3-Butadiene	3.36	39	569071	10.348 ppbv	99
17) tert-Butyl alcohol	4.35	59	1076545	9.641 ppbv	100
18) 1,1-Dichloroethene	4.35	96	583962	9.897 ppbv	93
19) Isopropyl Alcohol	4.02	45	794643	8.925 ppbv #	98
20) Methylene Chloride	4.40	84	495655	9.322 ppbv	98
21) Allyl Chloride	4.47	41	885278	10.278 ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	592922	9.803 ppbv	93
23) Vinyl Acetate	5.15	43	1828058	10.040 ppbv	99
24) 1,1-Dichloroethane	5.08	63	1290871	9.326 ppbv	99
25) Ethyl Acetate	5.76	43	2256010	9.300 ppbv	99
26) Hexane	5.77	57	979042	9.388 ppbv	97
27) Carbon Disulfide	4.61	76	1511373	10.563 ppbv	98
28) Methyl tert-Butyl Ether	5.10	73	1618423	9.519 ppbv	100
29) Chloroform	5.84	83	1708682	8.895 ppbv	98
30) Cyclohexane	7.24	84	839847	9.579 ppbv	99
31) cis-1,2-Dichloroethene	5.63	61	1004446	9.714 ppbv	98
32) 1,1,1-Trichloroethane	6.61	97	1757017	9.160 ppbv	99
34) 2-Butanone	5.32	43	1461606	10.112 ppbv	99
35) Carbon Tetrachloride	7.13	117	1929338	10.329 ppbv	97
36) Benzene	7.00	78	2032564	9.582 ppbv	100
37) 1,2-Dichloroethane	6.41	62	1328082	9.706 ppbv	99
38) Trichloroethene	7.96	130	852862	10.835 ppbv	97
39) 1,2-Dichloropropane	7.73	63	761418	9.628 ppbv	97
40) 1,4-Dioxane	7.95	88	298862	9.034 ppbv #	99
41) Tetrahydrofuran	6.14	42	793771	9.802 ppbv	99
42) Bromodichloromethane	7.91	83	1877956	10.025 ppbv	98
43) Methyl Methacrylate	8.13	69	828179	10.609 ppbv	99

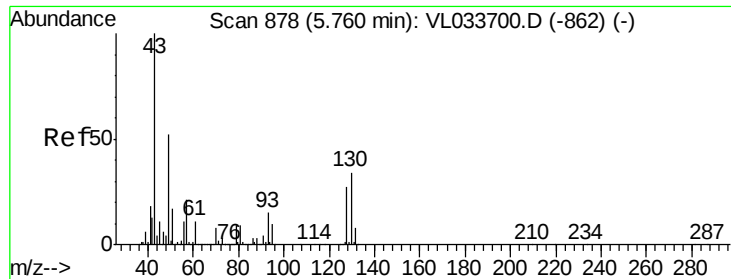
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052019\
 Data File : VL033737.D
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 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
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Instrument :
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Quant Time: May 21 10:44:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	3496420	9.753	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1168339	11.806	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	1293488	11.162	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	872155	9.708	ppbv	98
48) Dibromochloromethane	10.44	129	1659190	10.659	ppbv	99
49) Bromoform	13.19	173	1472738	11.244	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	2253707	10.137	ppbv	100
51) 2-Hexanone	10.26	43	1860826	10.724	ppbv	99
52) Tetrachloroethene	11.36	164	787336	10.559	ppbv	98
53) Toluene	9.94	91	2435217	10.644	ppbv	100
54) 1,2-Dibromoethane	10.75	107	1401868	10.225	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.27	131	1116676	9.868	ppbv	95
57) Chlorobenzene	12.29	112	1952173	9.698	ppbv	96
58) Ethyl Benzene	12.86	91	3442967	10.631	ppbv	100
59) m/p-Xylene	13.14	91	5758204m	20.340	ppbv	
60) o-Xylene	13.84	91	2932499	10.276	ppbv	100
61) Styrene	13.68	104	2163564	11.261	ppbv	99
62) Isopropylbenzene	14.82	105	3851962	10.023	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	1996418	9.620	ppbv	100
64) n-propylbenzene	15.72	120	988691	9.945	ppbv	99
65) tert-Butylbenzene	16.90	119	3501263	9.978	ppbv	99
66) Benzyl Chloride	17.15	91	1989013	11.901	ppbv	100
67) sec-Butylbenzene	17.45	105	4874239	9.925	ppbv	100
69) p-Isopropyltoluene	17.81	119	4112583	10.131	ppbv	100
70) n-Butylbenzene	18.71	91	4270667	9.811	ppbv	99
71) 2-Chlorotoluene	15.61	91	2909261	10.203	ppbv	100
72) 4-Ethyltoluene	15.99	105	3388965	10.386	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3227888	10.139	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	3398659	9.809	ppbv	99
75) 1,3-Dichlorobenzene	17.16	146	1992133	9.383	ppbv	100
76) 1,4-Dichlorobenzene	17.30	146	1965044	9.738	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	1898194	9.515	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1738533	11.526	ppbv	99
79) Naphthalene	22.41	128	3881093	12.060	ppbv	100
80) Naphthalene, 2-methyl-	25.11	142	1898871	15.529	ppbv	100
81) 1,2,4-Trichlorobenzene	22.13	180	2003541	10.632	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

Lab File: VL033737.D

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Instrument :
MSVOA_L
ClientSampleId :

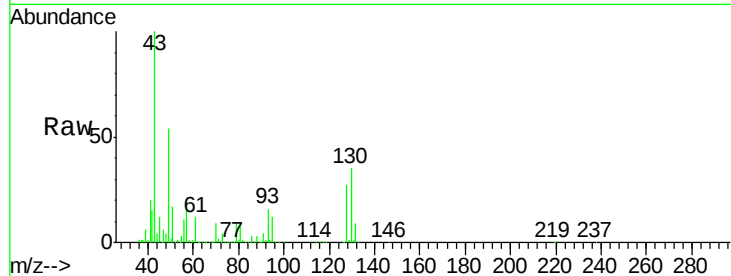
Tot Ion: 49 Resp: 995306

Ion Ratio Lower Upper

49 100

128 49.6 25.2 75.6

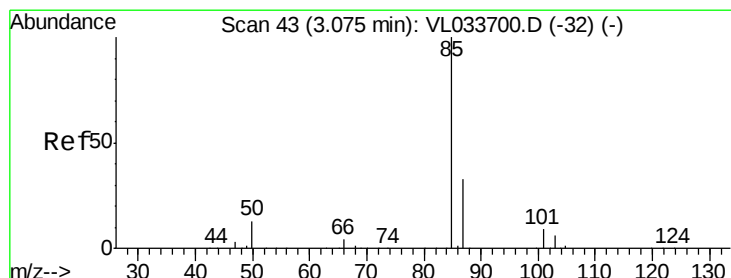
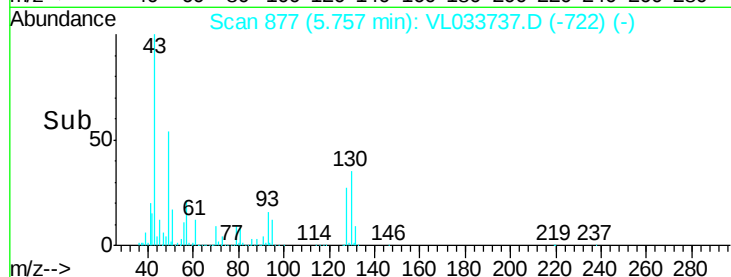
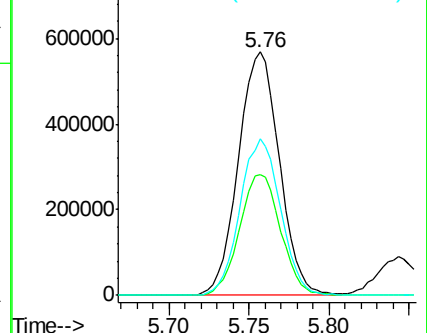
130 63.9 32.5 97.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 6.548 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.00 min

Lab File: VL033737.D

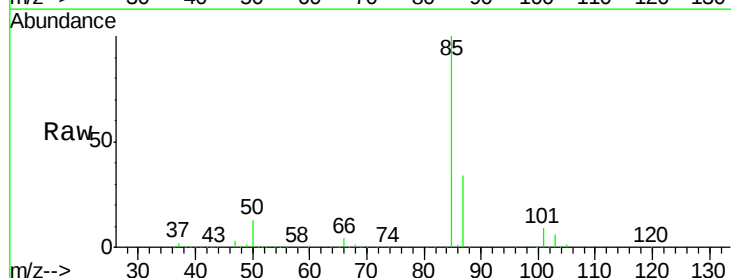
Acq: 21 May 2019 8:48

Tgt Ion: 85 Resp: 1373588

Ion Ratio Lower Upper

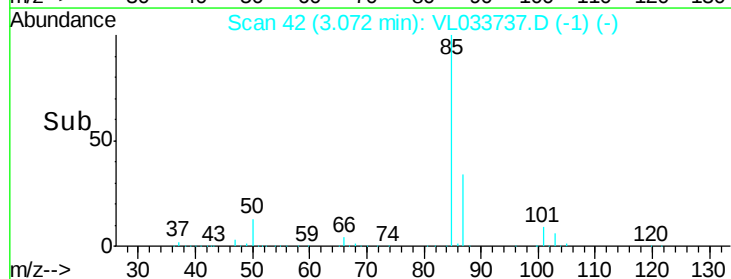
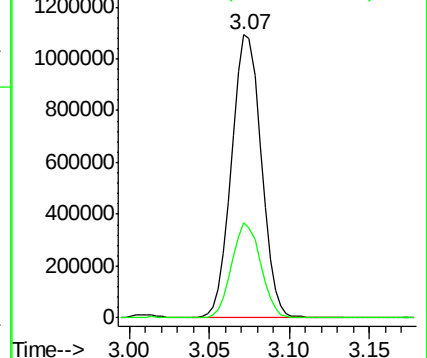
85 100

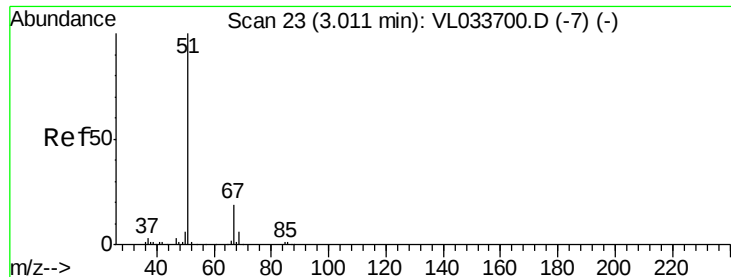
87 33.7 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

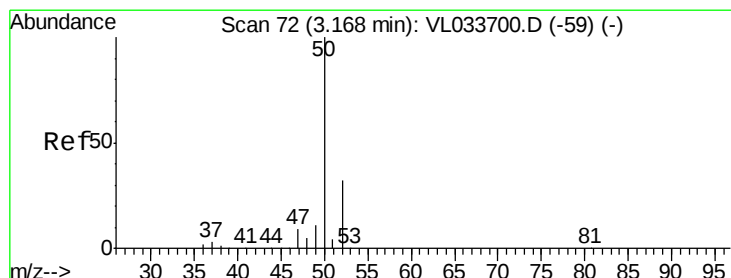
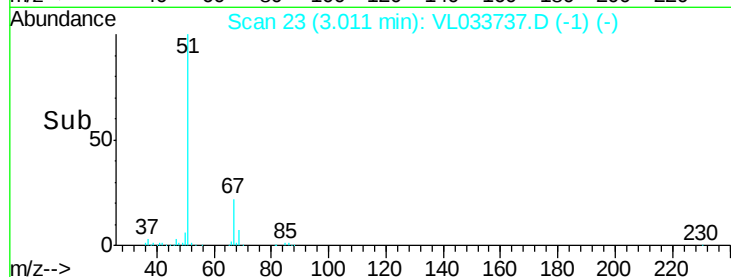
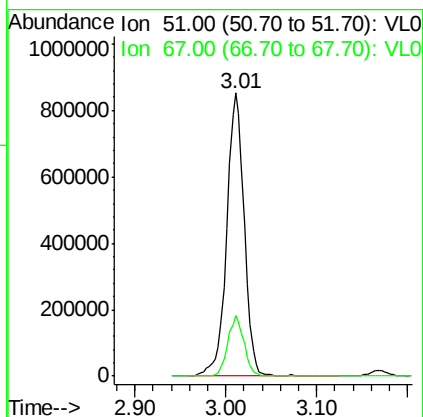
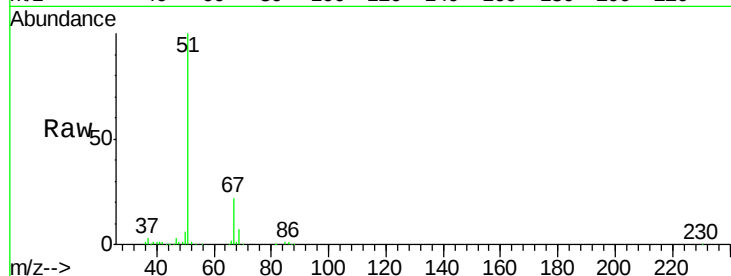




#3
Chlorodifluoromethane
Concen: 9.980 ppbv
RT: 3.01 min Scan# 23
Delta R.T. 0.00 min
Lab File: VL033737.D
Acq: 21 May 2019 8:48

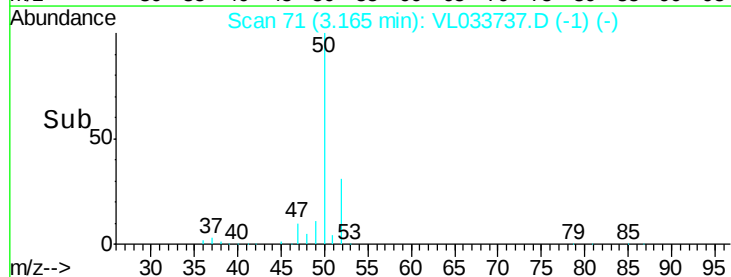
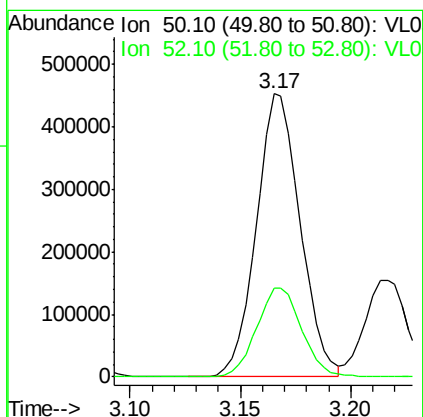
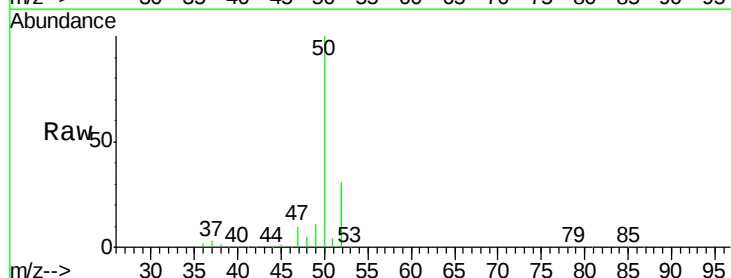
Instrument :
MSVOA_L
ClientSampleId :

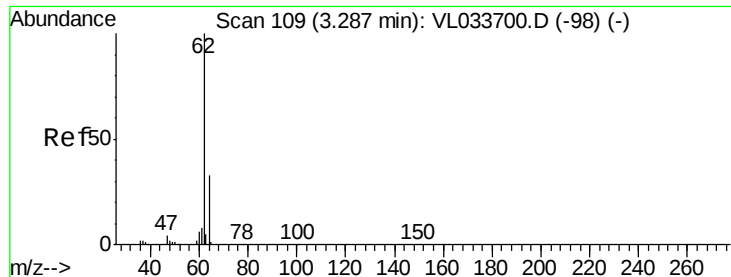
Tot Ion: 51 Resp: 1137787
Ion Ratio Lower Upper
51 100
67 20.0 15.6 23.4



#4
Chloromethane
Concen: 9.567 ppbv
RT: 3.17 min Scan# 71
Delta R.T. -0.00 min
Lab File: VL033737.D
Acq: 21 May 2019 8:48

Tgt Ion: 50 Resp: 623876
Ion Ratio Lower Upper
50 100
52 31.5 25.7 38.5





#5

Vinyl Chloride

Concen: 9.545 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

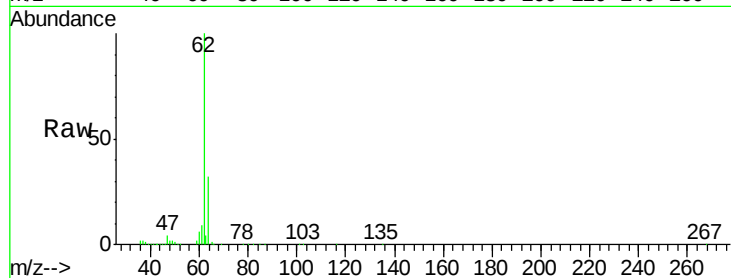
ClientSampleId :

Tot Ion: 62 Resp: 634043

Ion Ratio Lower Upper

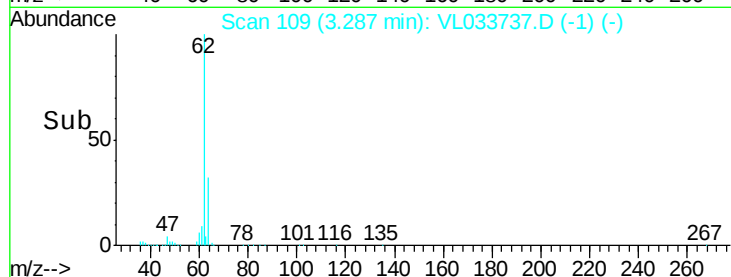
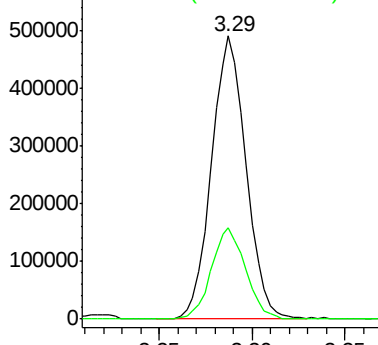
62 100

64 32.2 26.4 39.6

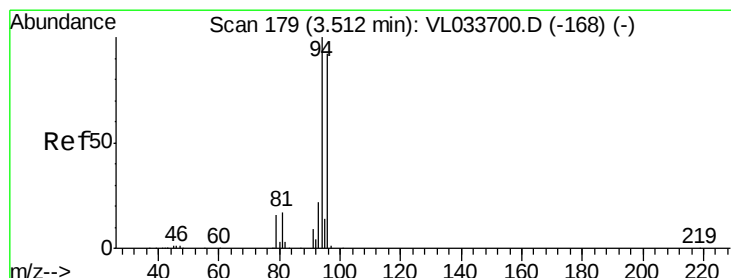


Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



Time-->



#6

Bromomethane

Concen: 9.895 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL033737.D

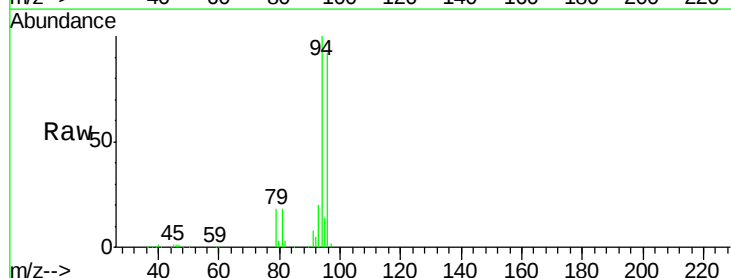
Acq: 21 May 2019 8:48

Tgt Ion: 94 Resp: 401030

Ion Ratio Lower Upper

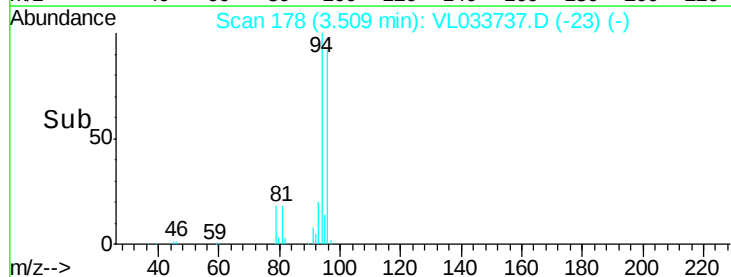
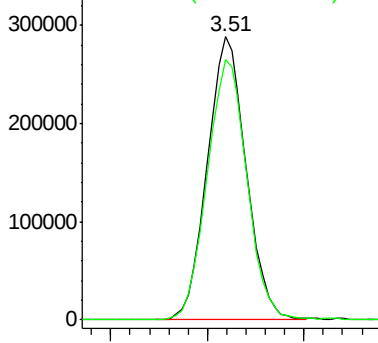
94 100

96 91.8 73.6 110.4

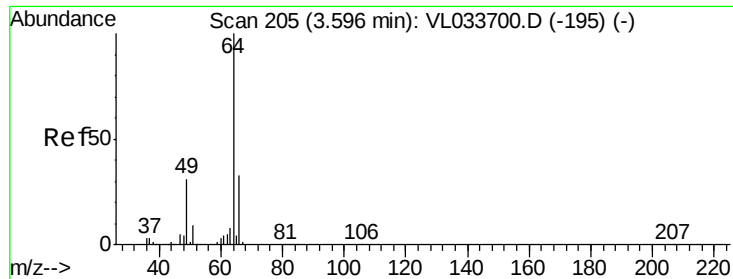


Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



Time-->



#7

Chloroethane

Concen: 9.929 ppbv

RT: 3.60 min Scan# 205

Delta R.T. 0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

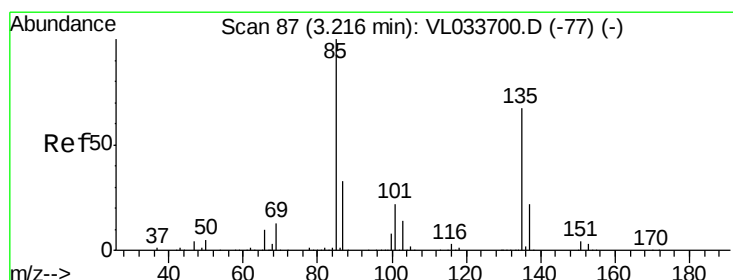
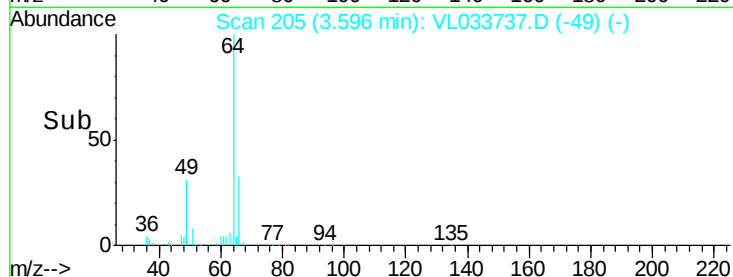
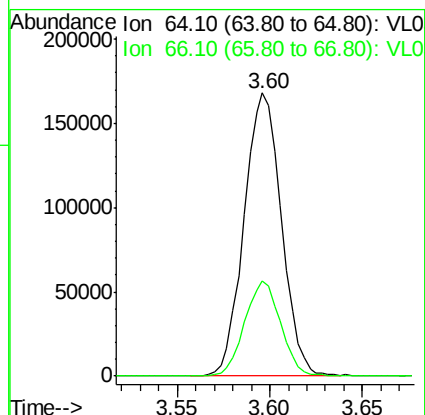
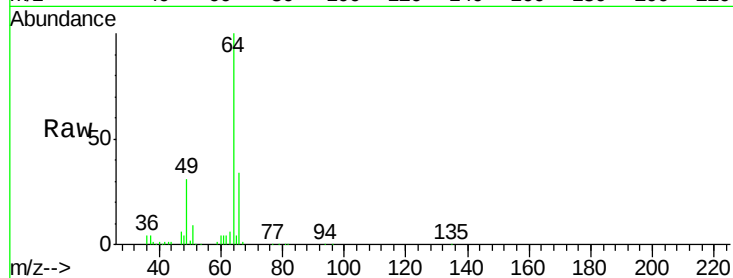
ClientSampleId :

Tot Ion: 64 Resp: 234393

Ion Ratio Lower Upper

64 100

66 33.8 26.6 40.0



#8

Dichlorotetrafluoroethane

Concen: 9.641 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.00 min

Lab File: VL033737.D

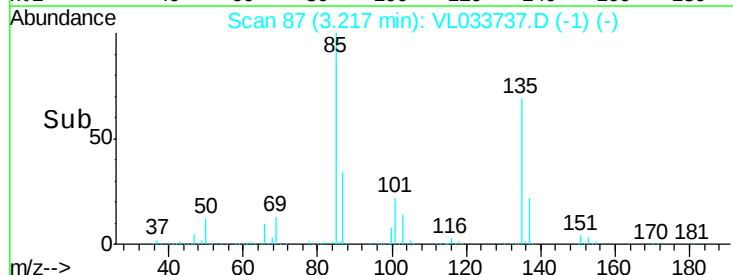
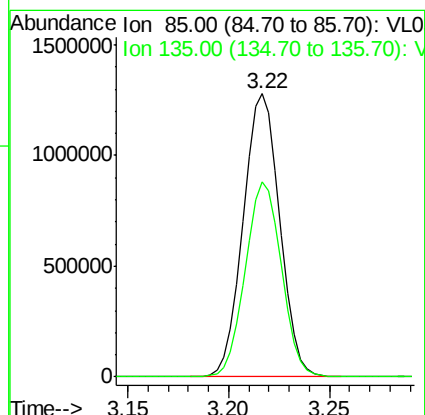
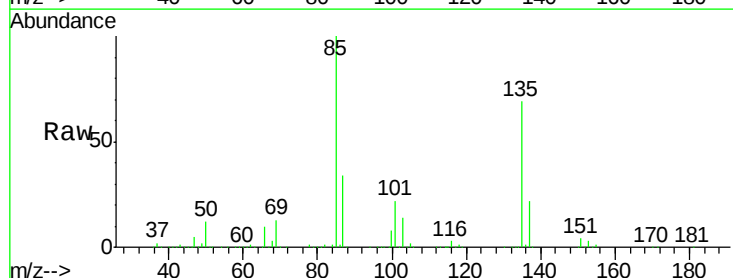
Acq: 21 May 2019 8:48

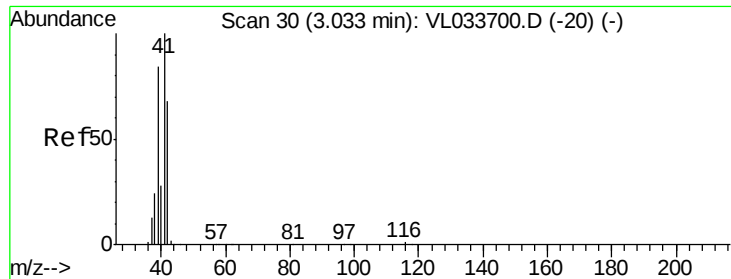
Tgt Ion: 85 Resp: 1630305

Ion Ratio Lower Upper

85 100

135 68.5 54.5 81.7





#9

Propene

Concen: 9.555 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

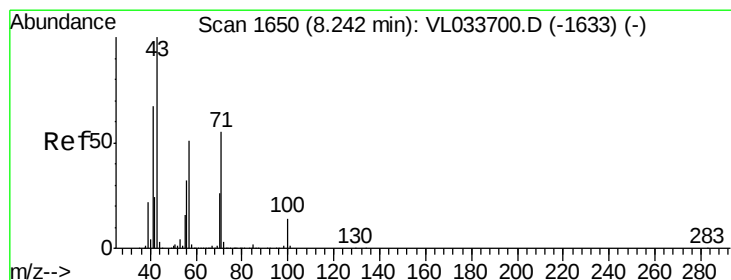
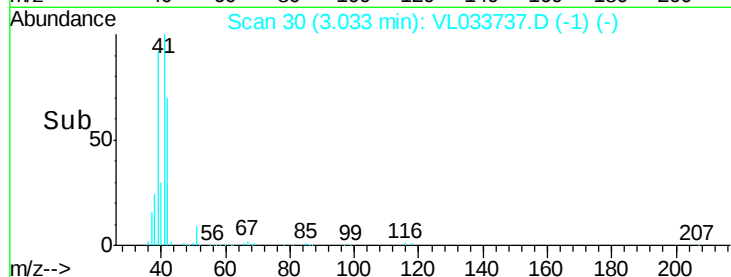
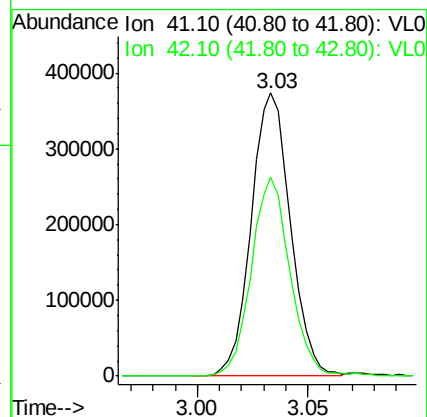
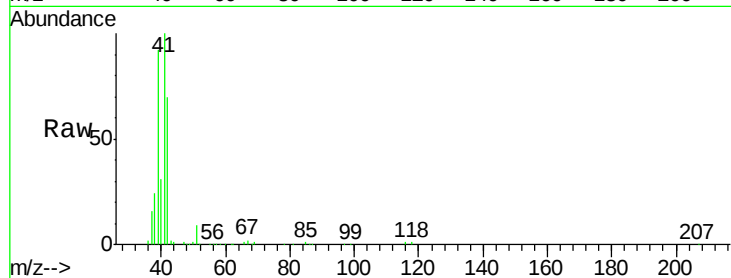
ClientSampleId :

Tot Ion: 41 Resp: 463358

Ion Ratio Lower Upper

41 100

42 69.6 56.1 84.1



#10

Heptane

Concen: 9.355 ppbv

RT: 8.24 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VL033737.D

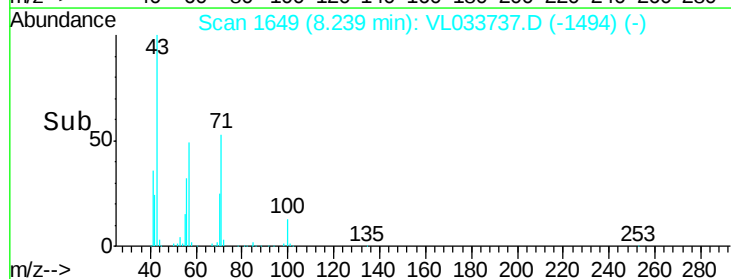
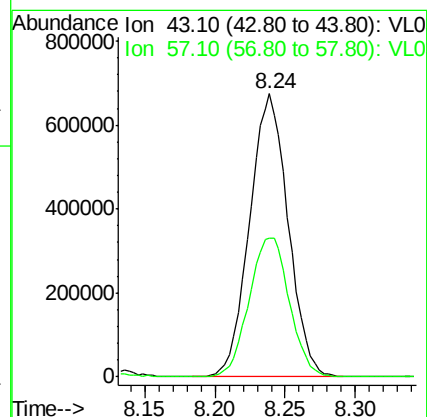
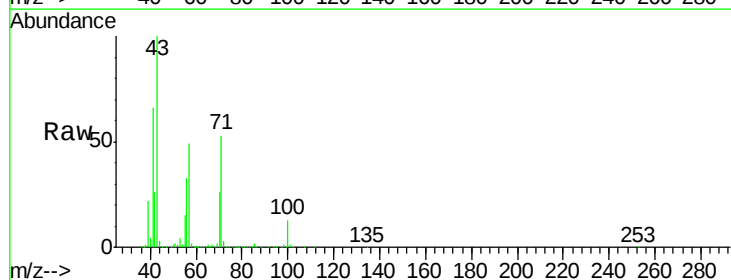
Acq: 21 May 2019 8:48

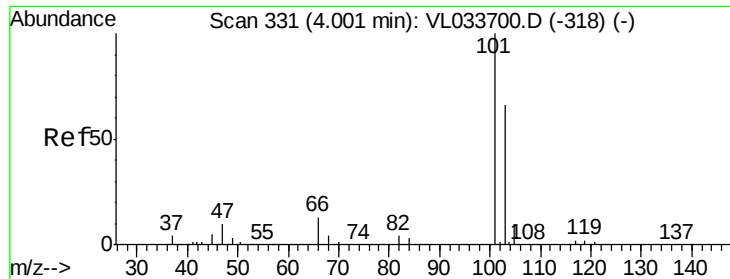
Tgt Ion: 43 Resp: 1284658

Ion Ratio Lower Upper

43 100

57 51.6 41.4 62.0

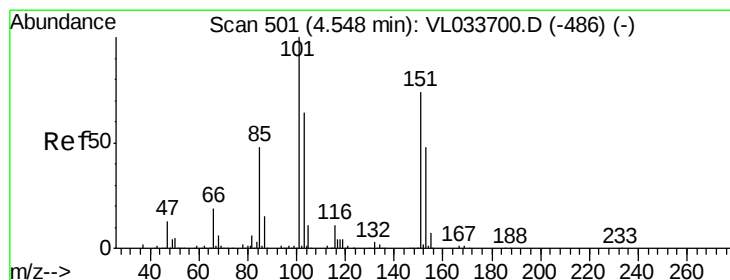
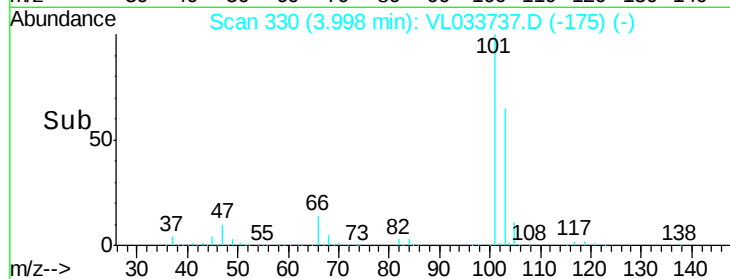
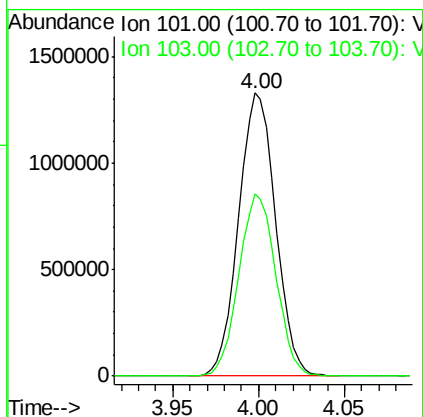
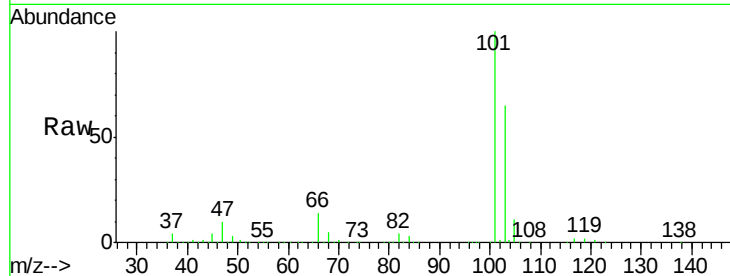




#11
 Trichlorofluoromethane
 Concen: 9.946 ppbv
 RT: 4.00 min Scan# 330
 Delta R.T. -0.00 min
 Lab File: VL033737.D
 Acq: 21 May 2019 8:48

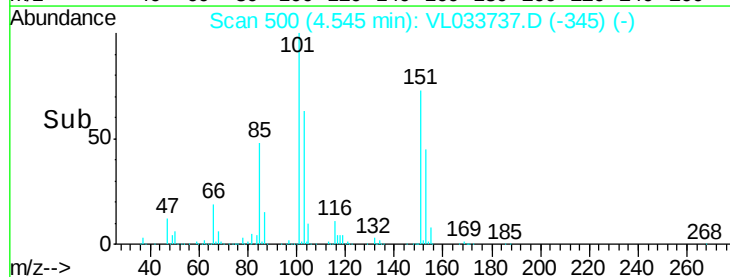
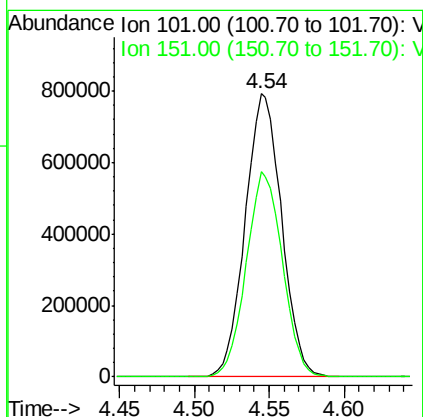
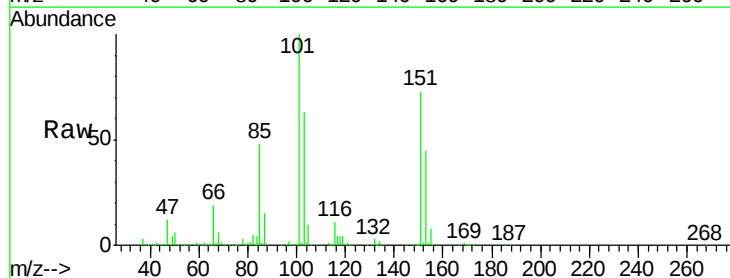
Instrument :
 MSVOA_L
 ClientSampleId :

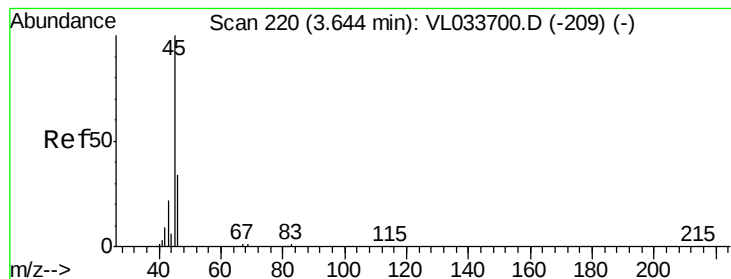
Tot Ion:101 Resp: 1991085
 Ion Ratio Lower Upper
 101 100
 103 64.5 52.6 78.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.599 ppbv
 RT: 4.54 min Scan# 500
 Delta R.T. -0.00 min
 Lab File: VL033737.D
 Acq: 21 May 2019 8:48

Tgt Ion:101 Resp: 1341896
 Ion Ratio Lower Upper
 101 100
 151 72.1 58.2 87.4





#13

Ethanol

Concen: 6.917 ppbv

RT: 3.64 min Scan# 220

Delta R.T. 0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

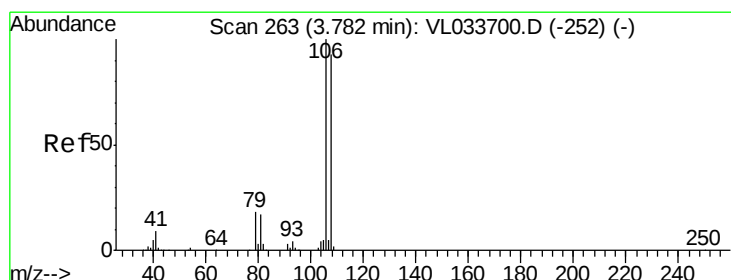
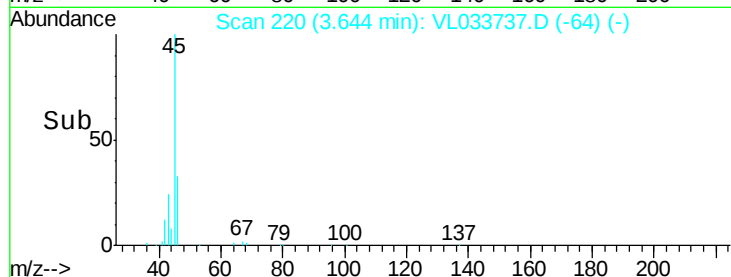
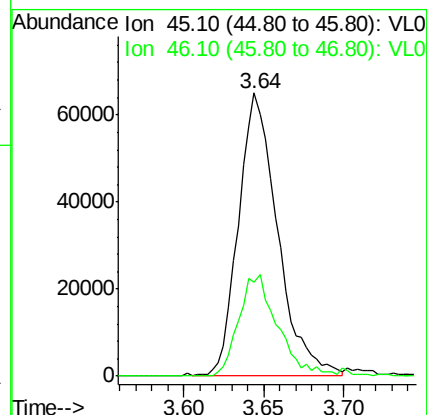
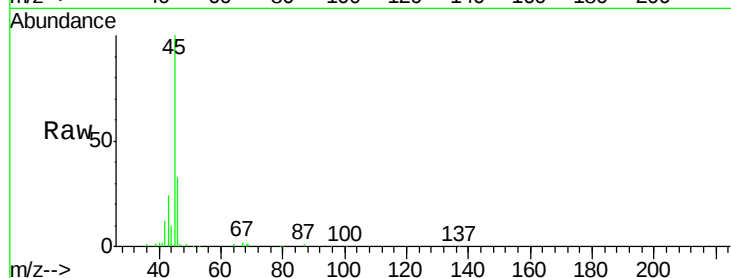
ClientSampleId :

Tot Ion: 45 Resp: 108407

Ion Ratio Lower Upper

45 100

46 36.6 14.8 59.0



#14

Bromoethene

Concen: 10.091 ppbv

RT: 3.78 min Scan# 263

Delta R.T. 0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

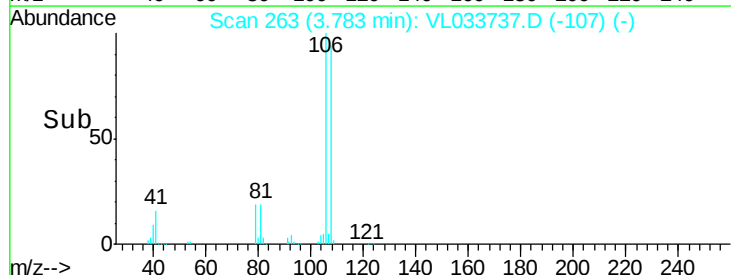
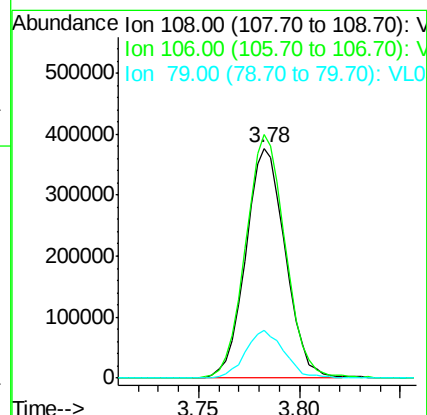
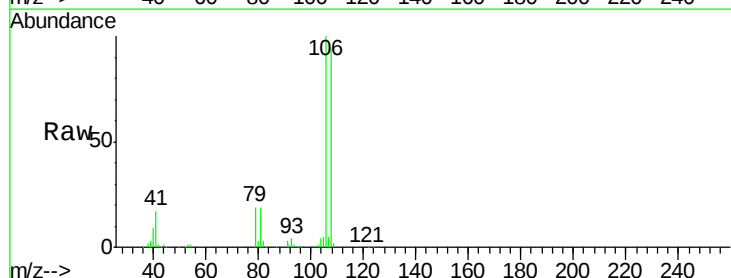
Tgt Ion: 108 Resp: 518609

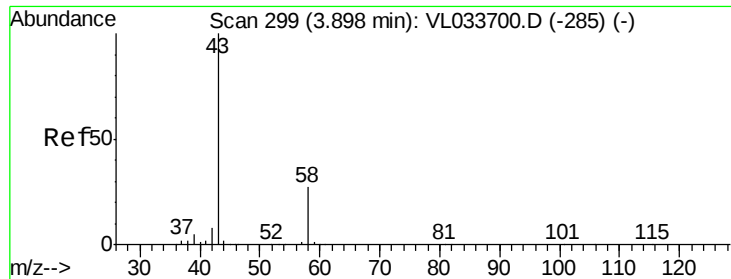
Ion Ratio Lower Upper

108 100

106 106.7 86.5 129.7

79 20.8 15.1 22.7





#15

Acetone

Concen: 9.053 ppbv

RT: 3.90 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

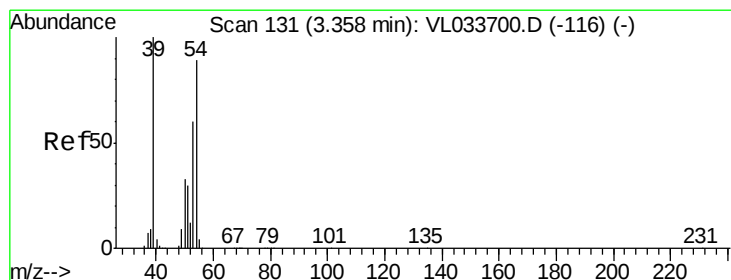
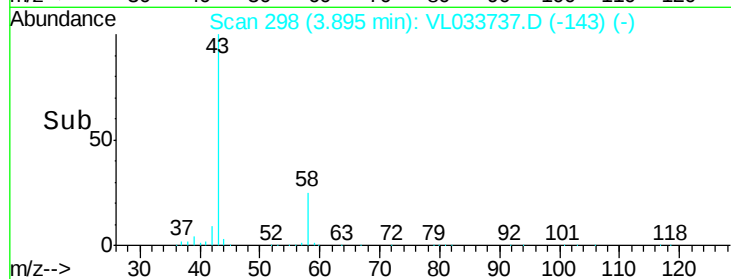
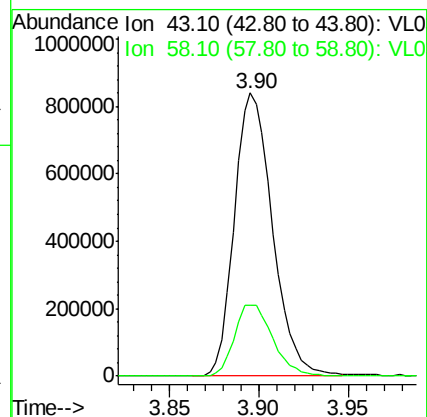
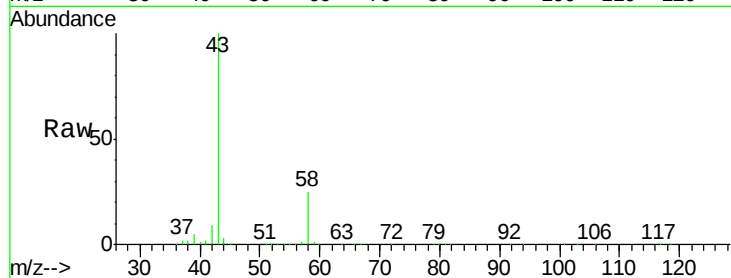
ClientSampleId :

Tot Ion: 43 Resp: 1250146

Ion Ratio Lower Upper

43 100

58 25.6 21.3 31.9



#16

1,3-Butadiene

Concen: 10.348 ppbv

RT: 3.36 min Scan# 131

Delta R.T. 0.00 min

Lab File: VL033737.D

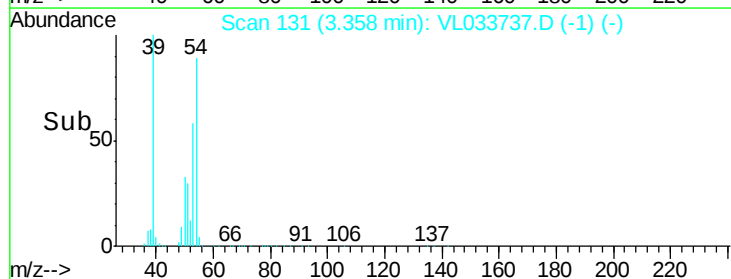
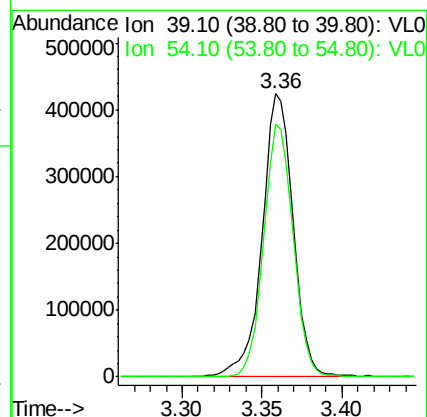
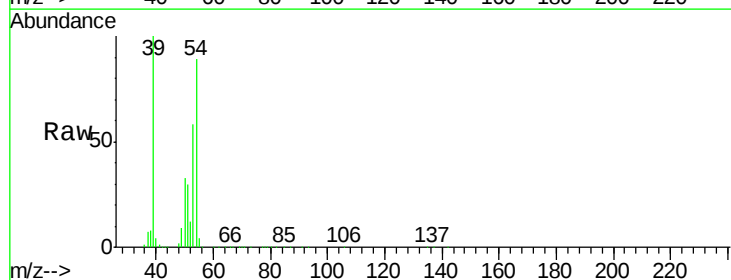
Acq: 21 May 2019 8:48

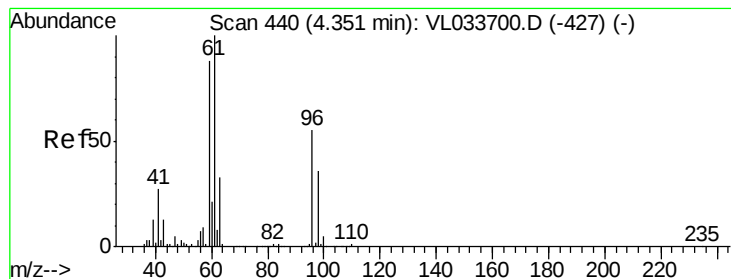
Tgt Ion: 39 Resp: 569071

Ion Ratio Lower Upper

39 100

54 85.2 69.0 103.6



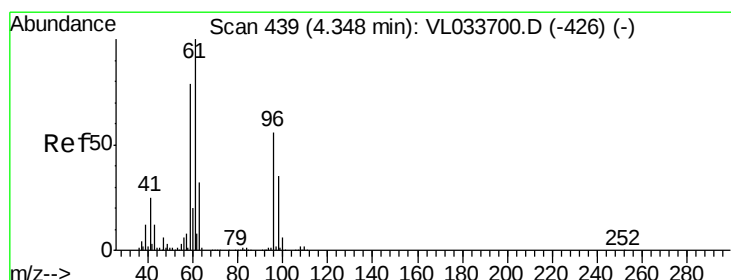
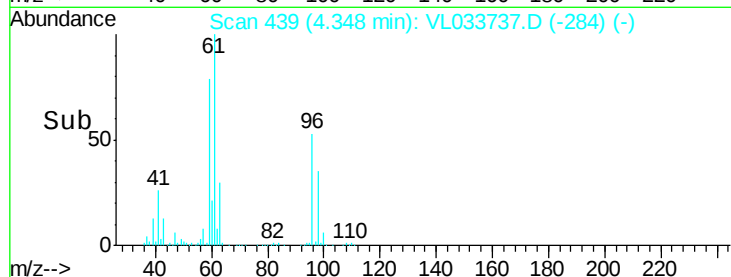
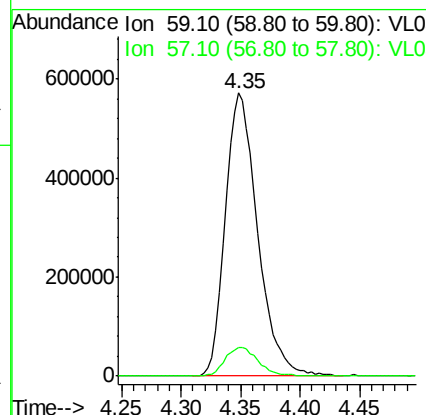
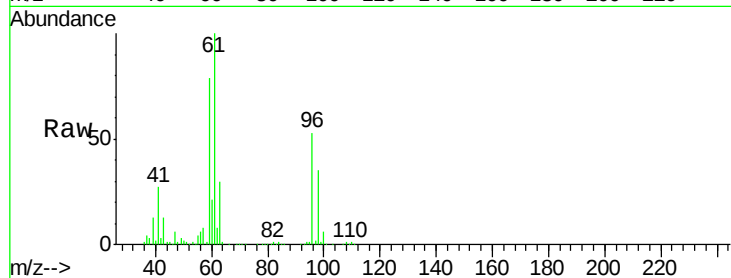


#17

tert-Butyl alcohol
 Concen: 9.641 ppbv
 RT: 4.35 min Scan# 439
 Delta R.T. -0.00 min
 Lab File: VL033737.D
 Acq: 21 May 2019 8:48

Instrument :
 MSVOA_L
 ClientSampled :

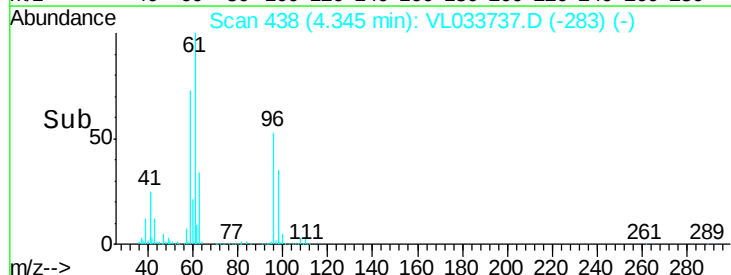
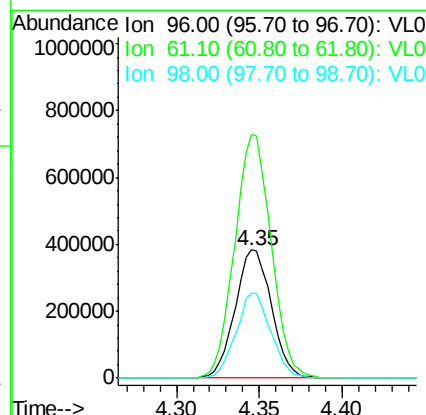
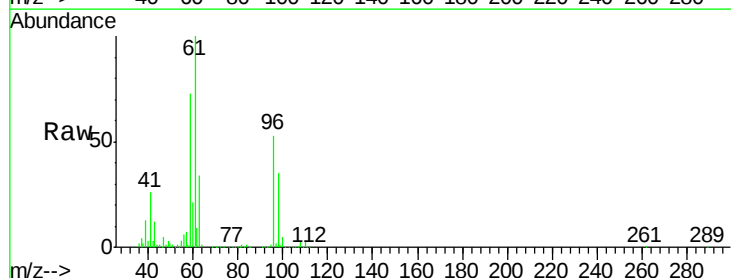
Tot Ion: 59 Resp: 1076545
 Ion Ratio Lower Upper
 59 100
 57 10.6 8.4 12.6

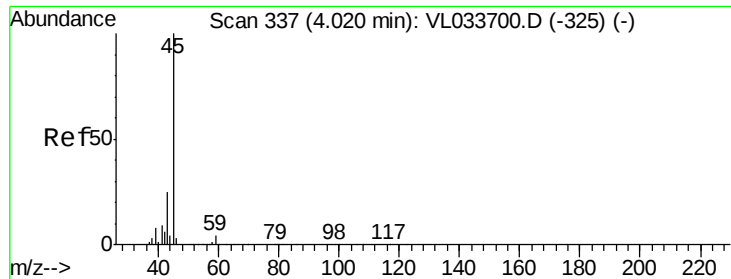


#18

1,1-Dichloroethene
 Concen: 9.897 ppbv
 RT: 4.35 min Scan# 438
 Delta R.T. -0.00 min
 Lab File: VL033737.D
 Acq: 21 May 2019 8:48

Tgt Ion: 96 Resp: 583962
 Ion Ratio Lower Upper
 96 100
 61 189.5 143.1 214.7
 98 66.6 49.5 74.3





#19

Isopropyl Alcohol

Concen: 8.925 ppbv

RT: 4.02 min Scan# 336

Delta R.T. -0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

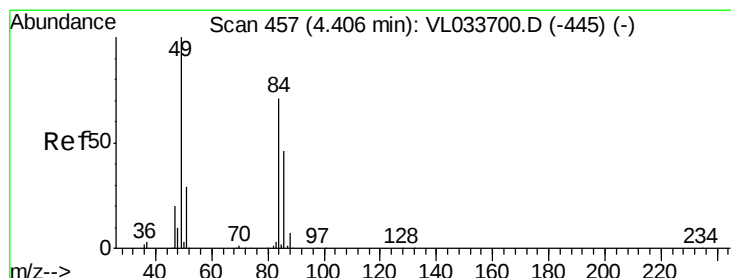
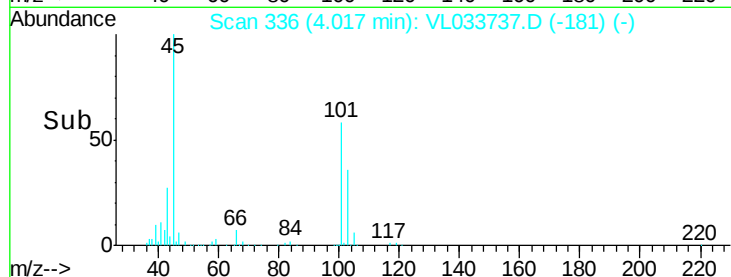
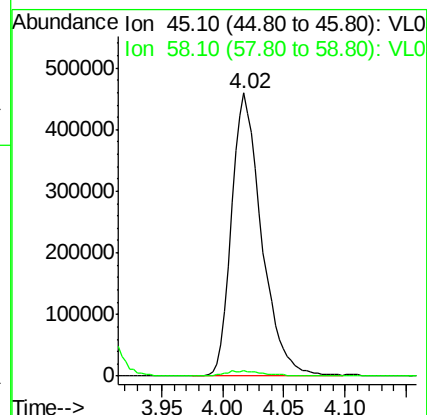
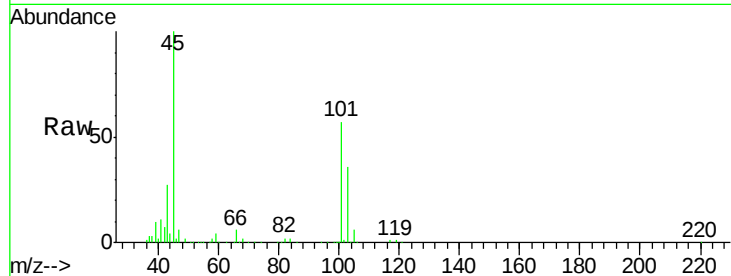
ClientSampleId :

Tot Ion: 45 Resp: 794643

Ion Ratio Lower Upper

45 100

58 2.6 1.6 2.4#



#20

Methylene Chloride

Concen: 9.322 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Tgt Ion: 84 Resp: 495655

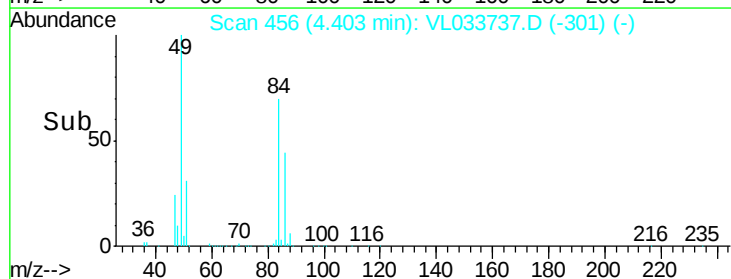
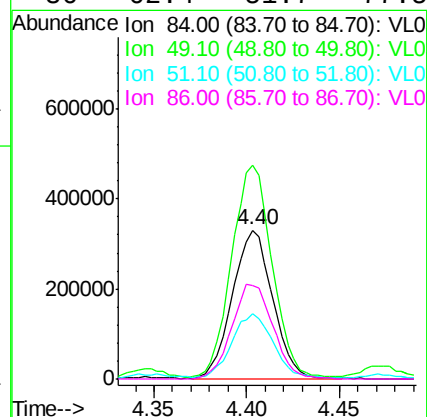
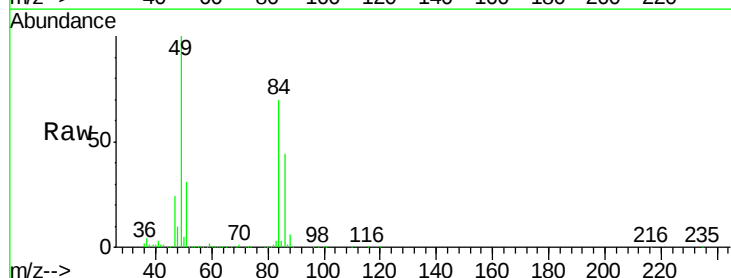
Ion Ratio Lower Upper

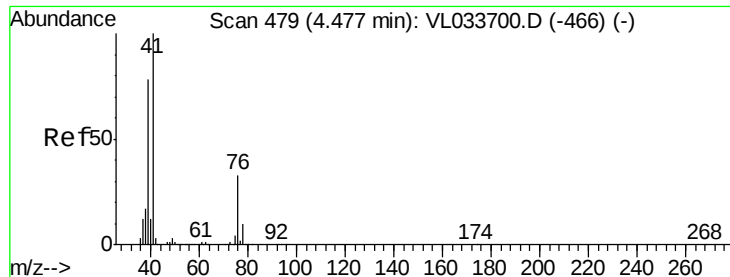
84 100

49 142.4 112.8 169.2

51 43.2 33.4 50.0

86 62.4 51.7 77.5

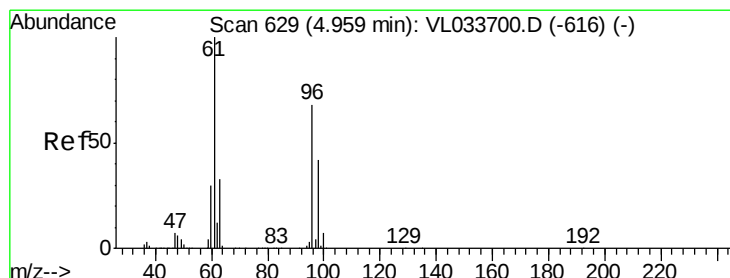
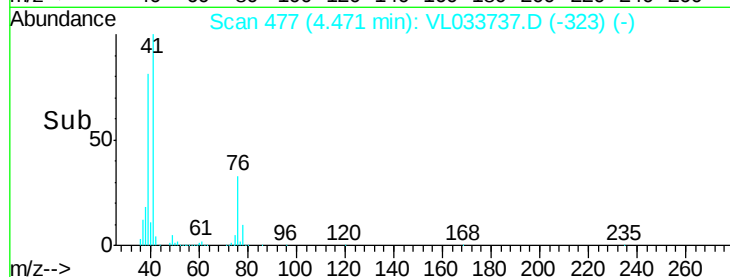
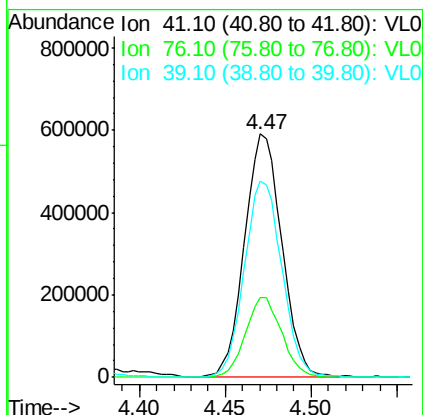
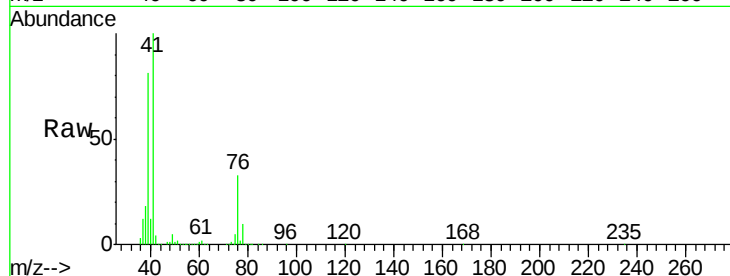




#21
Allvl Chloride
Concen: 10.278 ppbv
RT: 4.47 min Scan# 477
Delta R.T. -0.01 min
Lab File: VL033737.D
Acq: 21 May 2019 8:48

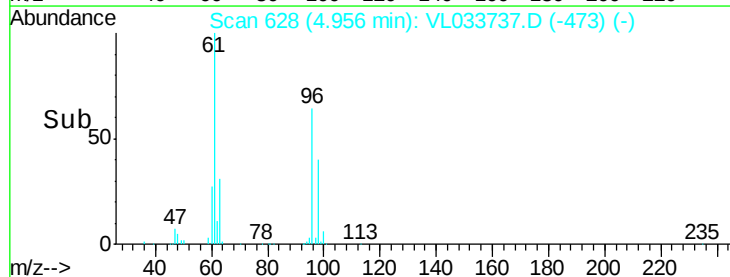
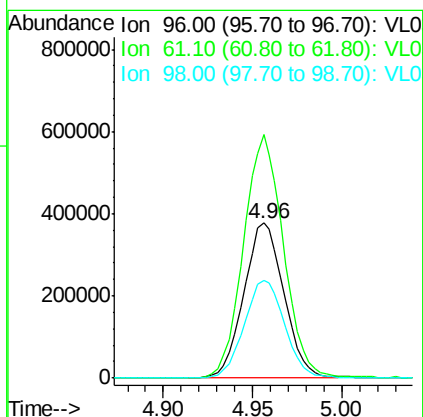
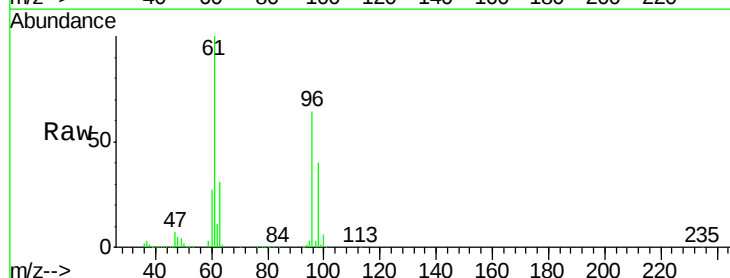
Instrument :
MSVOA_L
ClientSampleId :

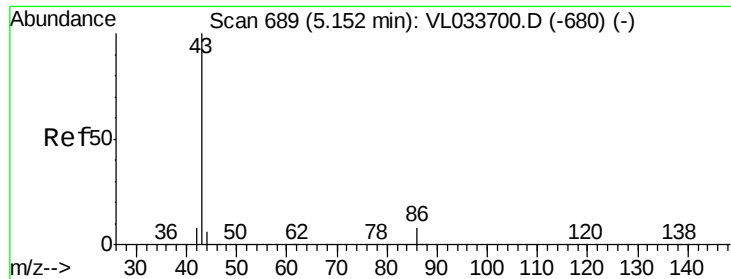
Tot Ion	Ratio	Lower	Upper
41	100		
76	32.1	25.9	38.9
39	81.8	64.6	97.0



#22
trans-1,2-Dichloroethene
Concen: 9.803 ppbv
RT: 4.96 min Scan# 628
Delta R.T. -0.00 min
Lab File: VL033737.D
Acq: 21 May 2019 8:48

Tgt Ion	Ratio	Lower	Upper
96	100		
61	157.3	116.8	175.2
98	63.2	49.4	74.0





#23

Vinyl Acetate

Concen: 10.040 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1828058

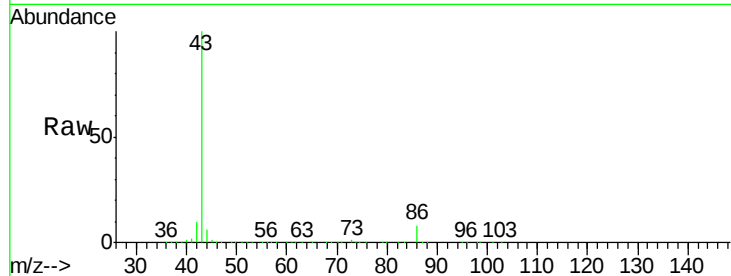
Ion	Ratio	Lower	Upper
43	100		
86	7.6	6.0	9.0
42	10.3	7.5	11.3
44	5.5	4.4	6.6

43 100

86 7.6 6.0 9.0

42 10.3 7.5 11.3

44 5.5 4.4 6.6



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

1500000

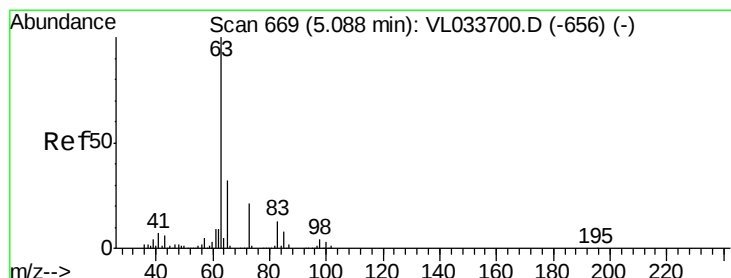
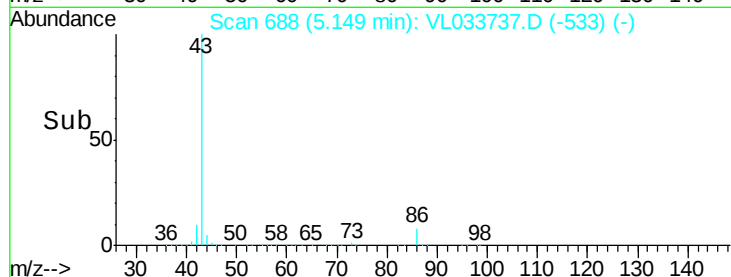
1000000

500000

0

5.10 5.15 5.20

Time-->



#24

1,1-Dichloroethane

Concen: 9.326 ppbv

RT: 5.08 min Scan# 668

Delta R.T. -0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

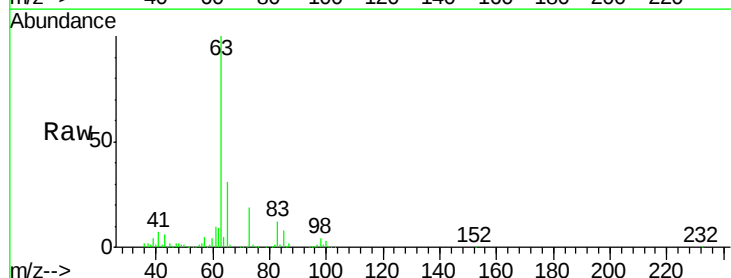
Tgt Ion: 63 Resp: 1290871

Ion	Ratio	Lower	Upper
63	100		
98	4.2	1.8	5.5
100	3.0	1.4	4.2

63 100

98 4.2 1.8 5.5

100 3.0 1.4 4.2



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

1000000

800000

600000

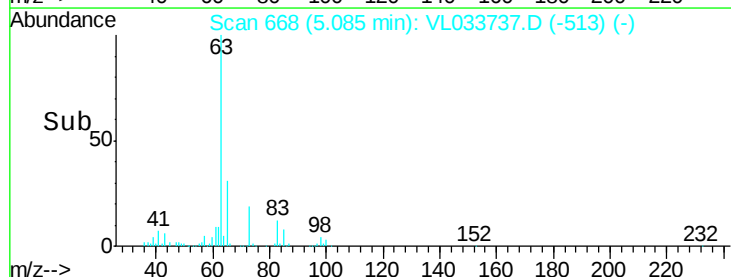
400000

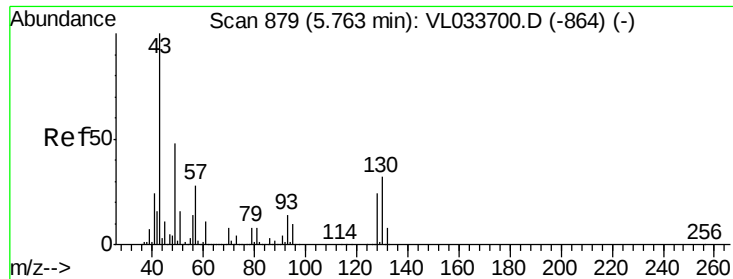
200000

0

5.00 5.05 5.10 5.15

Time-->

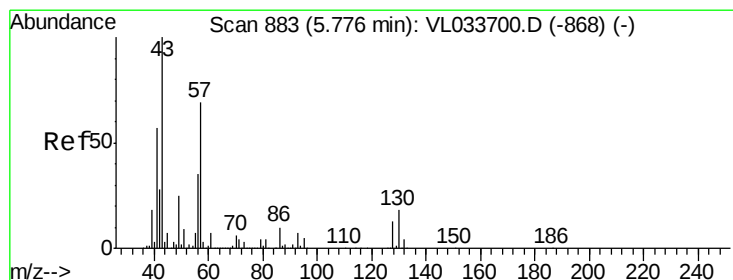
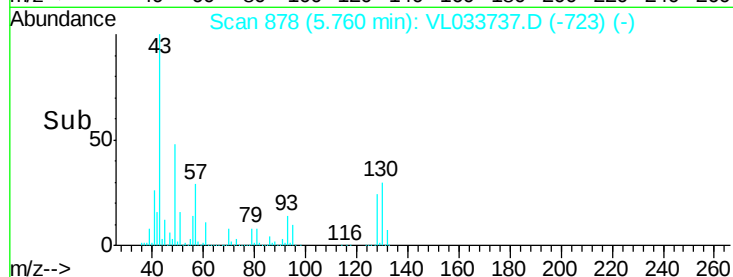
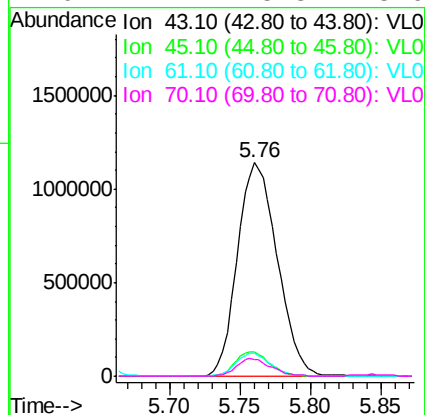
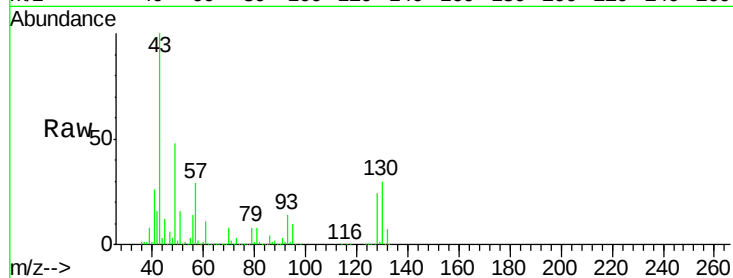




#25
Ethyl Acetate
Concen: 9.300 ppbv
RT: 5.76 min Scan# 878
Delta R.T. -0.00 min
Lab File: VL033737.D
Acq: 21 May 2019 8:48

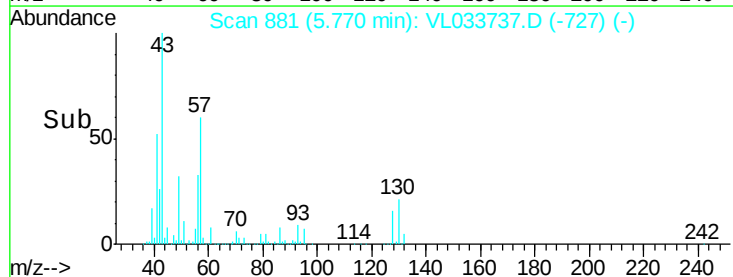
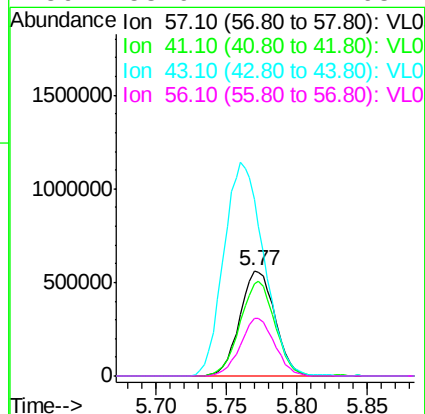
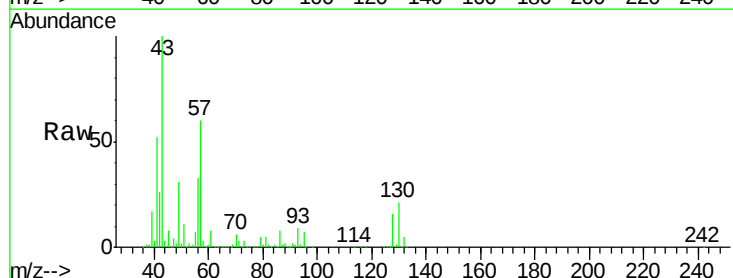
Instrument :
MSVOA_L
ClientSampleId :

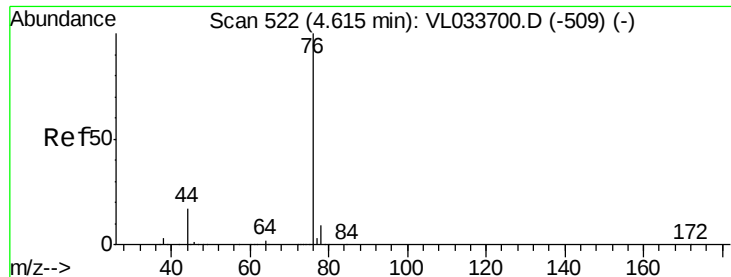
Tot Ion: 43 Resp: 2256010
Ion Ratio Lower Upper
43 100
45 10.1 7.9 11.9
61 9.3 7.7 11.5
70 7.1 5.8 8.6



#26
Hexane
Concen: 9.388 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.01 min
Lab File: VL033737.D
Acq: 21 May 2019 8:48

Tgt Ion: 57 Resp: 979042
Ion Ratio Lower Upper
57 100
41 89.5 69.8 104.6
43 232.3 181.8 272.6
56 53.9 42.1 63.1





#27

Carbon Disulfide

Concen: 10.563 ppbv

RT: 4.61 min Scan# 521

Delta R.T. -0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

ClientSampleId :

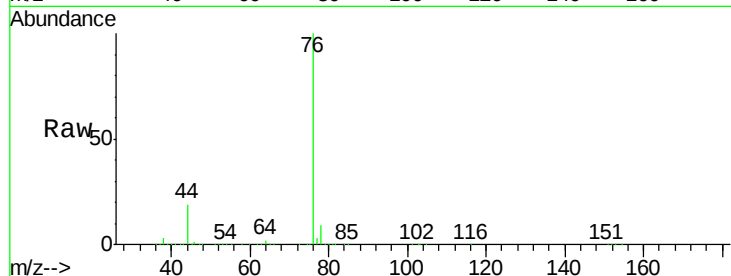
Tot Ion: 76 Resp: 1511373

Ion Ratio Lower Upper

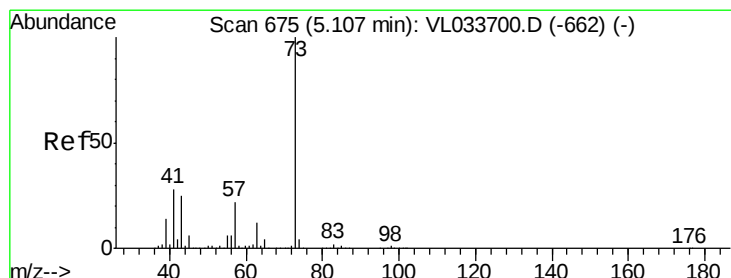
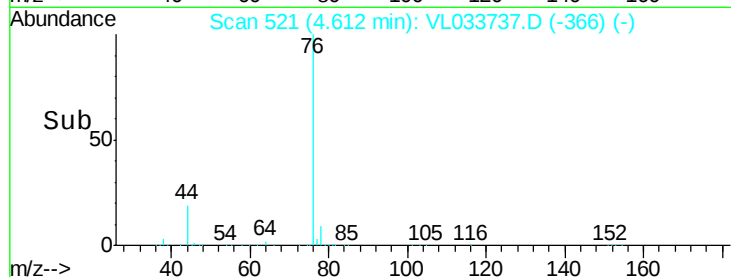
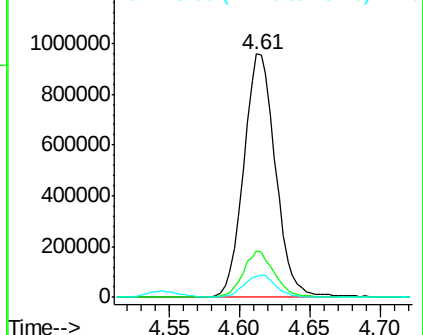
76 100

44 18.6 13.8 20.8

78 9.2 7.4 11.0



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



#28

Methyl tert-Butyl Ether

Concen: 9.519 ppbv

RT: 5.10 min Scan# 674

Delta R.T. -0.00 min

Lab File: VL033737.D

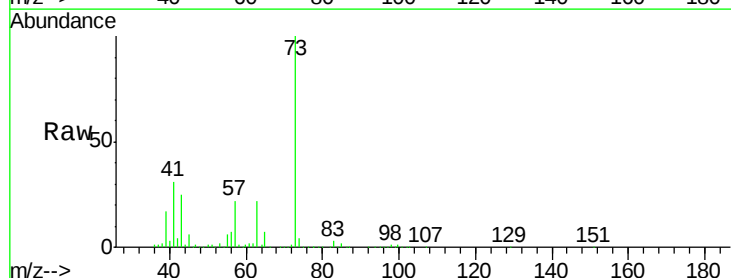
Acq: 21 May 2019 8:48

Tgt Ion: 73 Resp: 1618423

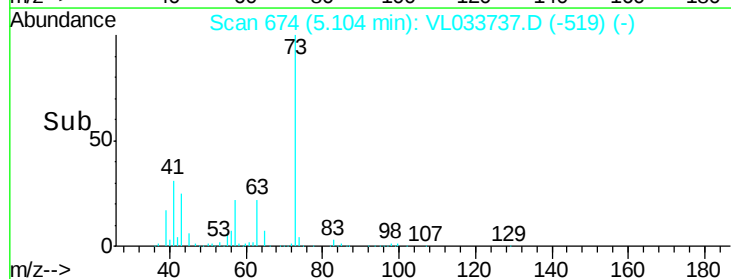
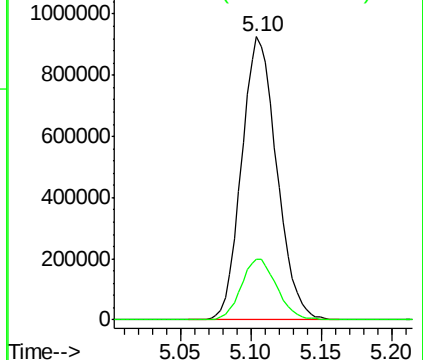
Ion Ratio Lower Upper

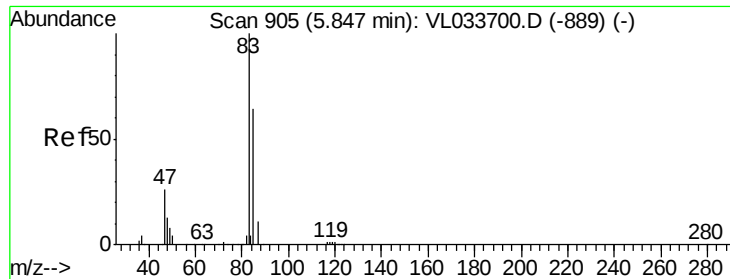
73 100

57 21.8 17.4 26.2



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

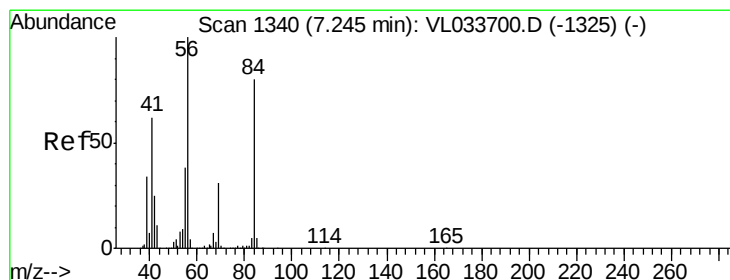
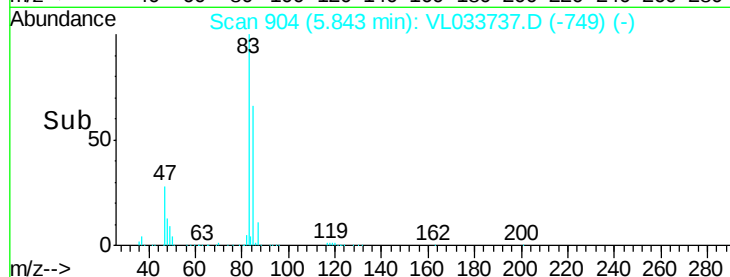
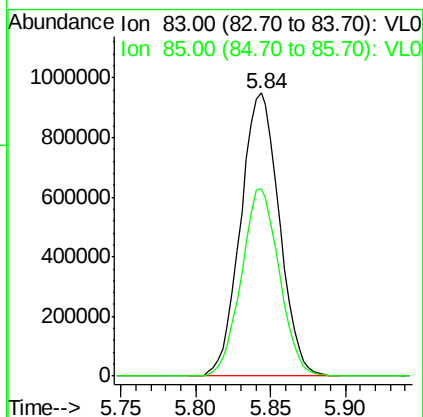
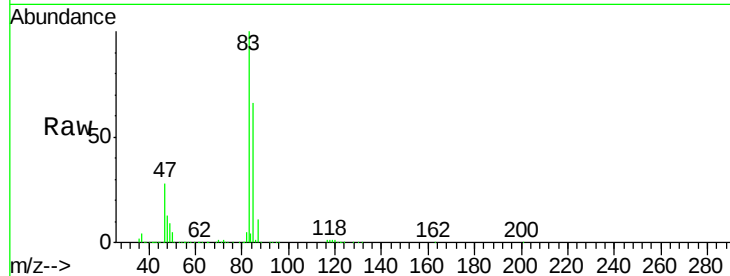




#29
Chloroform
Concen: 8.895 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL033737.D
Acq: 21 May 2019 8:48

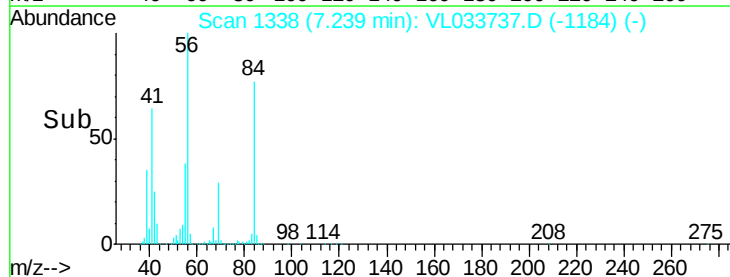
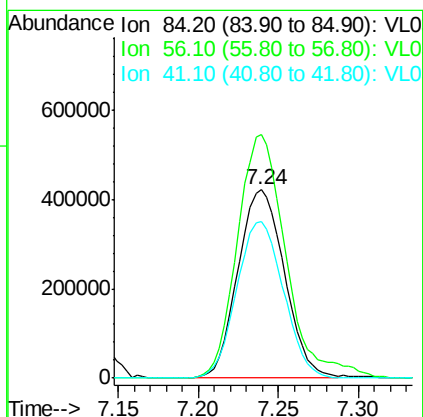
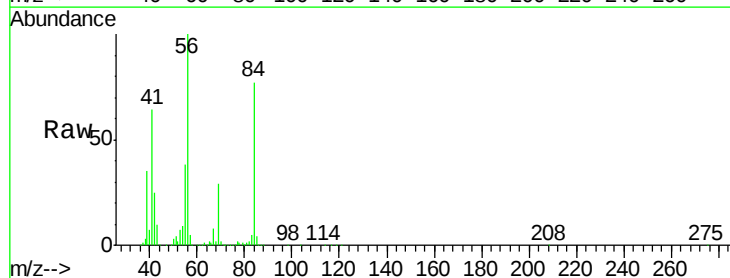
Instrument :
MSVOA_L
ClientSampleId :

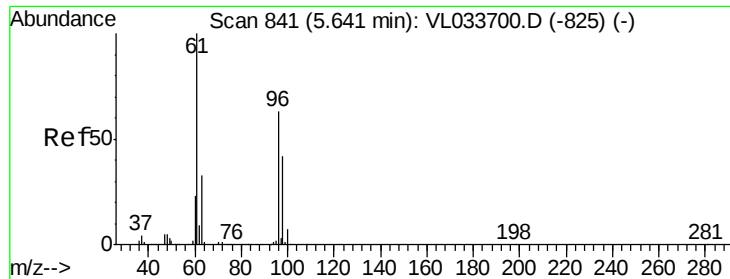
Tot Ion: 83 Resp: 1708682
Ion Ratio Lower Upper
83 100
85 66.1 51.5 77.3



#30
Cyclohexane
Concen: 9.579 ppbv
RT: 7.24 min Scan# 1338
Delta R.T. -0.01 min
Lab File: VL033737.D
Acq: 21 May 2019 8:48

Tgt Ion: 84 Resp: 839847
Ion Ratio Lower Upper
84 100
56 135.2 107.7 161.5
41 83.6 66.0 99.0



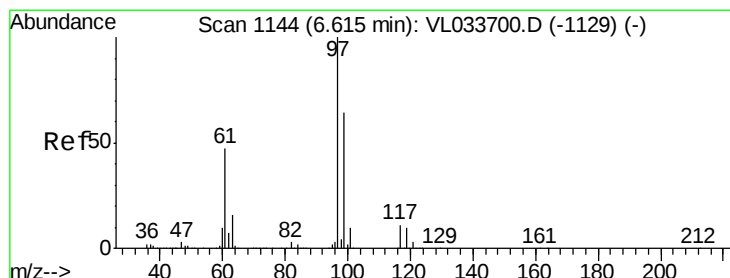
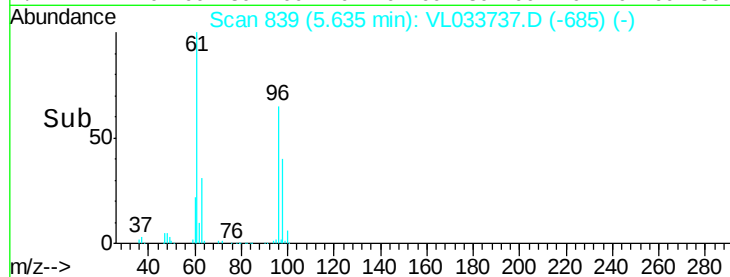
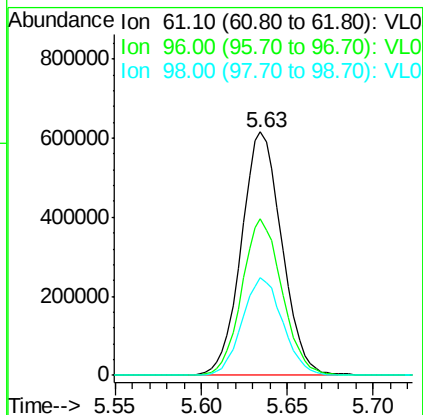
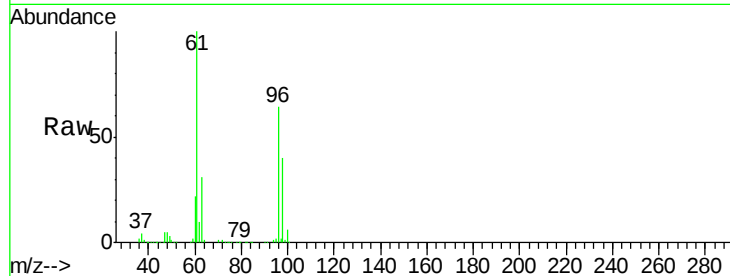


#31

cis-1,2-Dichloroethene
 Concen: 9.714 ppbv
 RT: 5.63 min Scan# 839
 Delta R.T. -0.01 min
 Lab File: VL033737.D
 Acq: 21 May 2019 8:48

Instrument :
 MSVOA_L
 ClientSampleId :

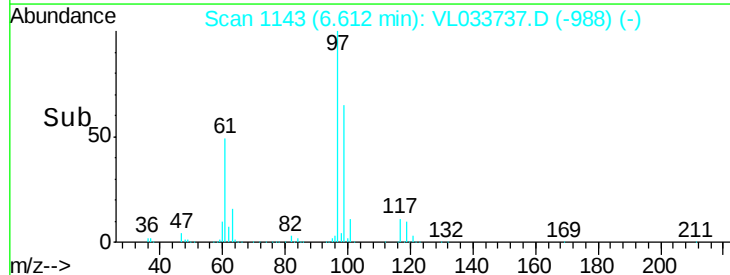
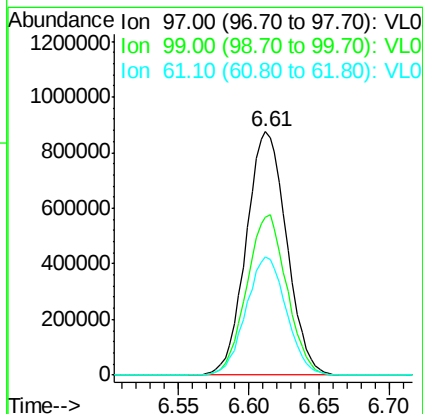
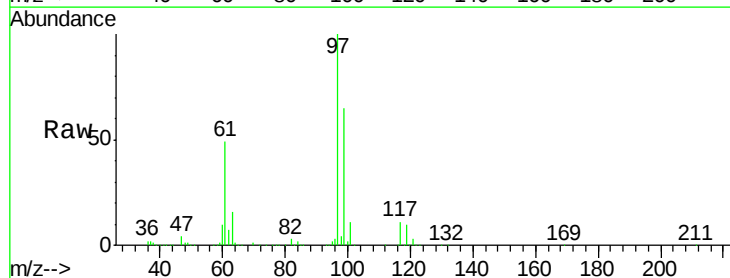
Tot Ion: 61 Resp: 1004446
 Ion Ratio Lower Upper
 61 100
 96 64.4 50.8 76.2
 98 40.1 33.3 49.9

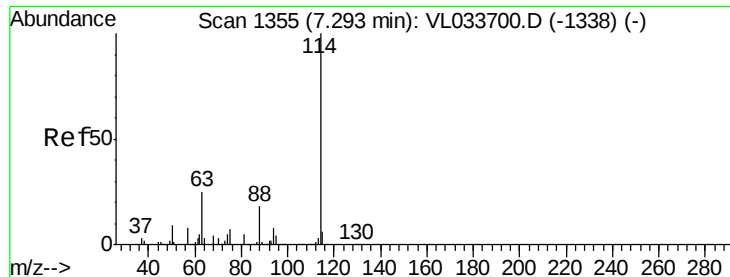


#32

1,1,1-Trichloroethane
 Concen: 9.160 ppbv
 RT: 6.61 min Scan# 1143
 Delta R.T. -0.00 min
 Lab File: VL033737.D
 Acq: 21 May 2019 8:48

Tgt Ion: 97 Resp: 1757017
 Ion Ratio Lower Upper
 97 100
 99 65.4 51.5 77.3
 61 48.4 37.8 56.8

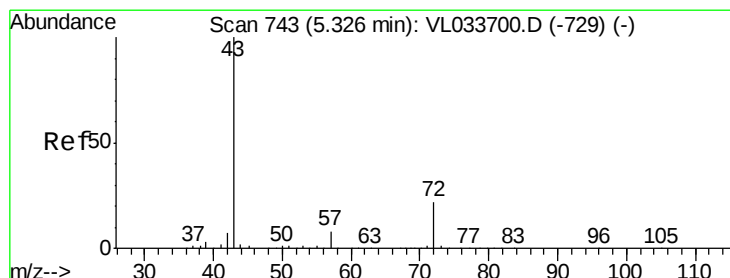
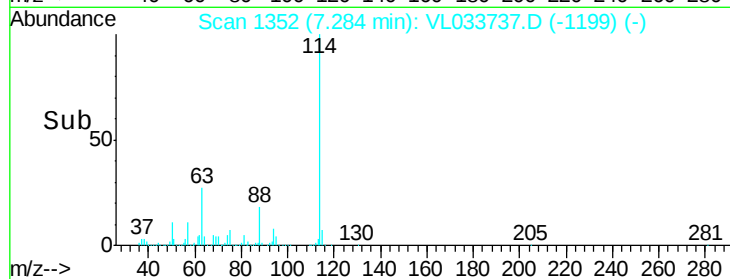
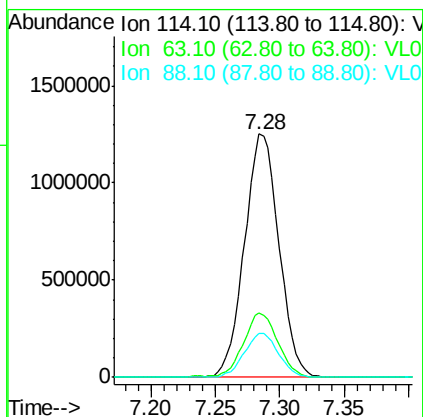
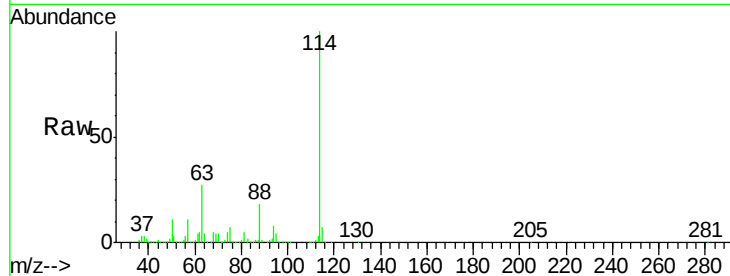




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.01 min
 Lab File: VL033737.D
 Acq: 21 May 2019 8:48

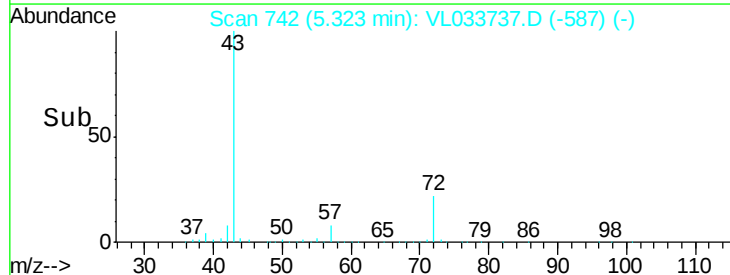
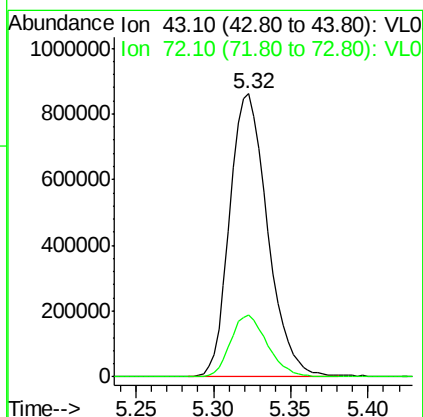
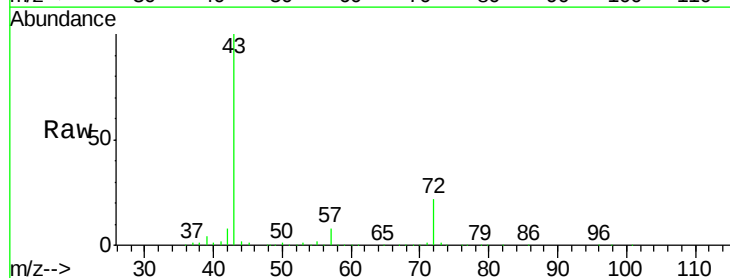
Instrument :
 MSVOA_L
 ClientSampleId :

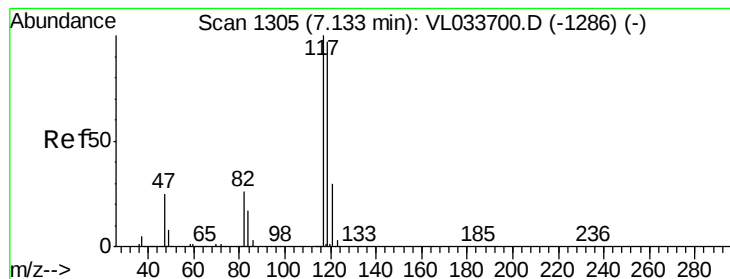
Tot Ion:114 Resp: 2331858
 Ion Ratio Lower Upper
 114 100
 63 27.0 20.9 31.3
 88 18.0 14.3 21.5



#34
 2-Butanone
 Concen: 10.112 ppbv
 RT: 5.32 min Scan# 742
 Delta R.T. -0.00 min
 Lab File: VL033737.D
 Acq: 21 May 2019 8:48

Tgt Ion: 43 Resp: 1461606
 Ion Ratio Lower Upper
 43 100
 72 21.5 17.8 26.6





#35

Carbon Tetrachloride

Concen: 10.329 ppbv

RT: 7.13 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

ClientSampleId :

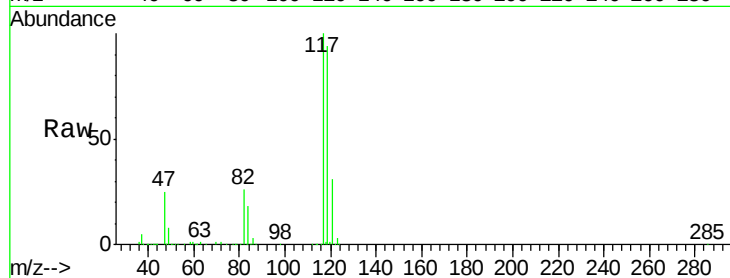
Tot Ion:117 Resp: 1929338

Ion Ratio Lower Upper

117 100

119 93.6 77.2 115.8

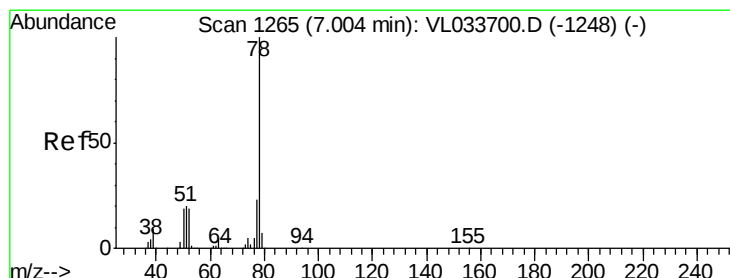
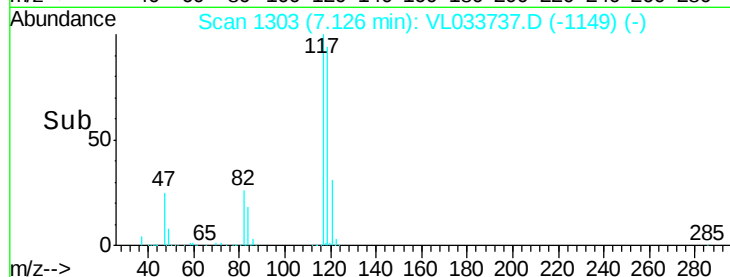
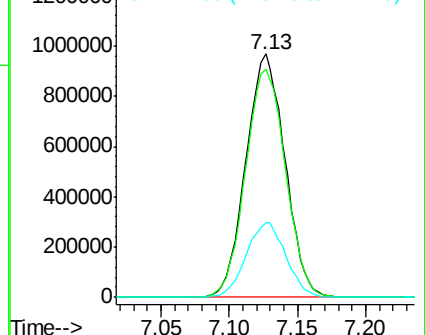
121 30.8 24.1 36.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.582 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

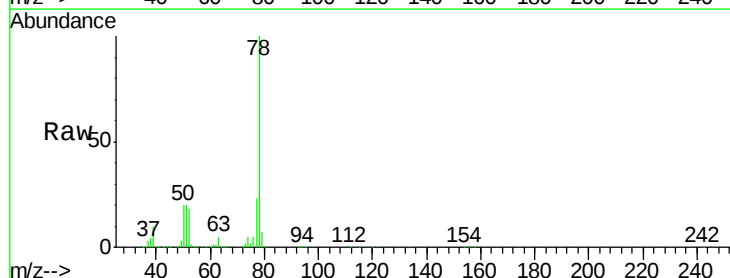
Tgt Ion: 78 Resp: 2032564

Ion Ratio Lower Upper

78 100

77 22.9 18.4 27.6

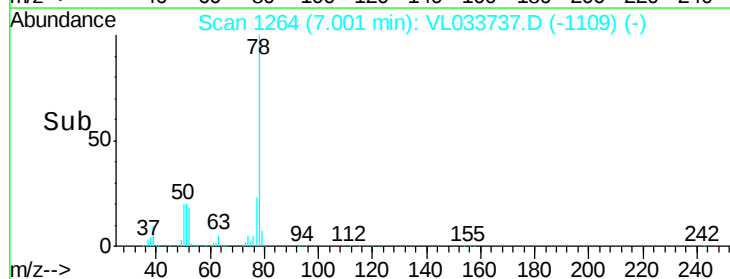
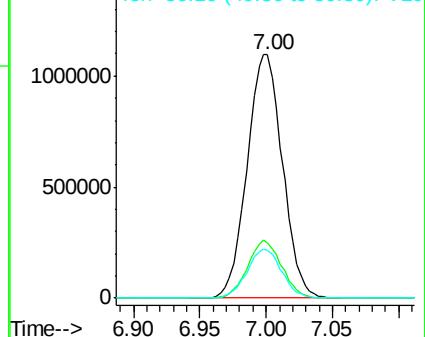
50 19.7 15.5 23.3

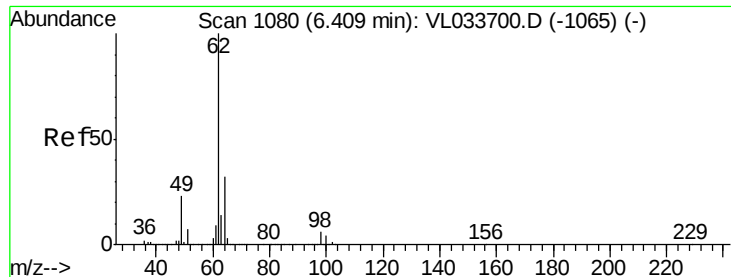


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

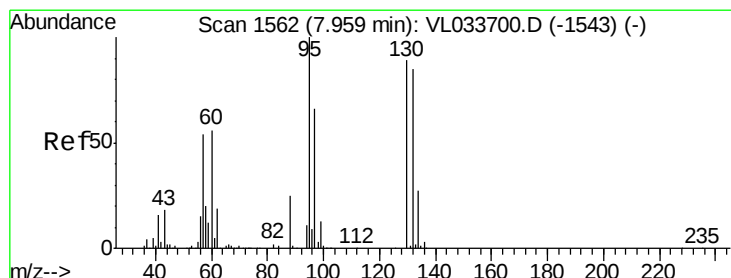
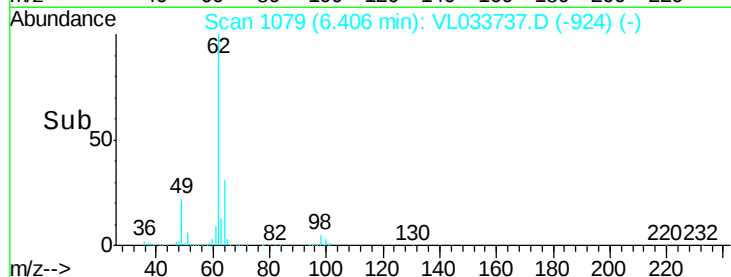
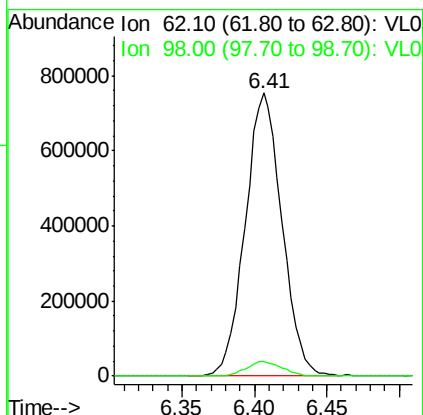
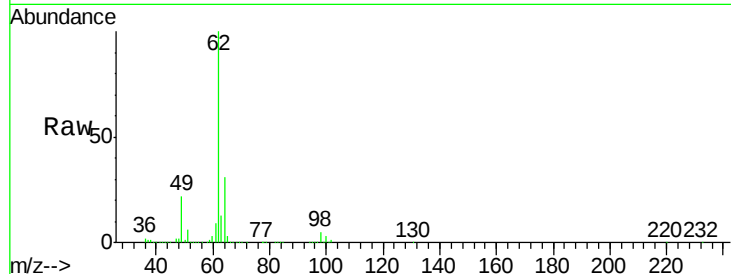




#37
 1,2-Dichloroethane
 Concen: 9.706 ppbv
 RT: 6.41 min Scan# 1079
 Delta R.T. -0.00 min
 Lab File: VL033737.D
 Acq: 21 May 2019 8:48

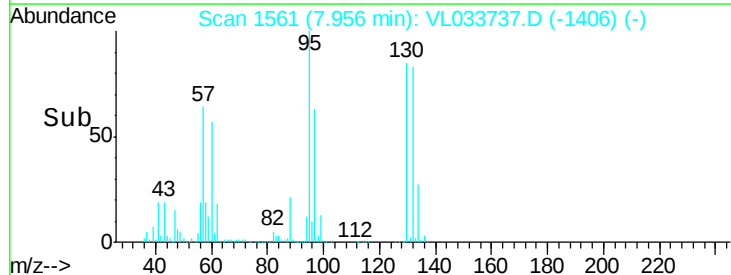
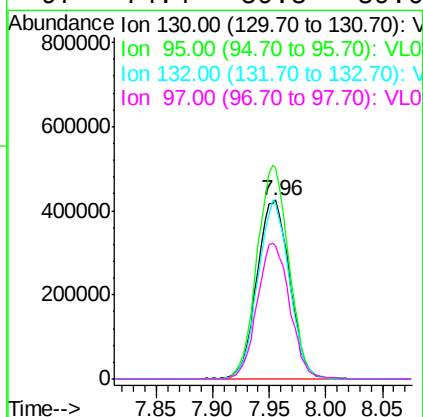
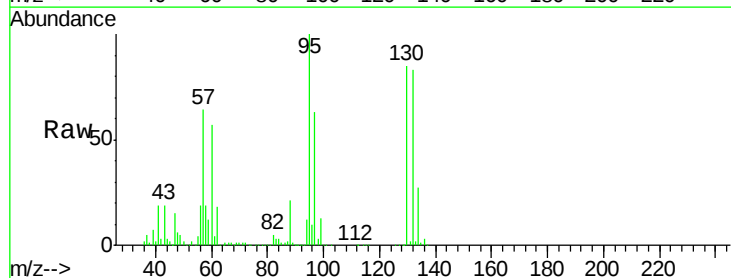
Instrument :
 MSVOA_L
 ClientSampleId :

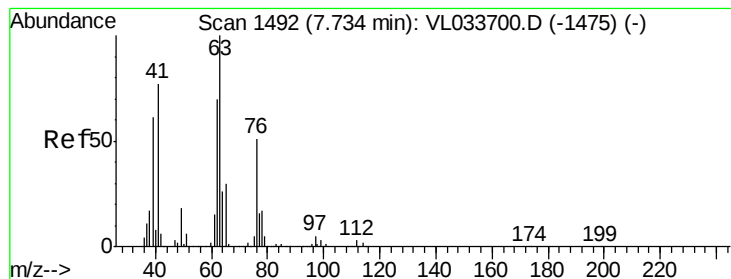
Tot Ion: 62 Resp: 1328082
 Ion Ratio Lower Upper
 62 100
 98 5.2 4.5 6.7



#38
 Trichloroethene
 Concen: 10.835 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.00 min
 Lab File: VL033737.D
 Acq: 21 May 2019 8:48

Tgt Ion: 130 Resp: 852862
 Ion Ratio Lower Upper
 130 100
 95 117.7 90.2 135.4
 132 97.6 76.4 114.6
 97 74.4 59.8 89.6





#39

1,2-Dichloropropane

Concen: 9.628 ppbv

RT: 7.73 min Scan# 1490

Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

ClientSampleId :

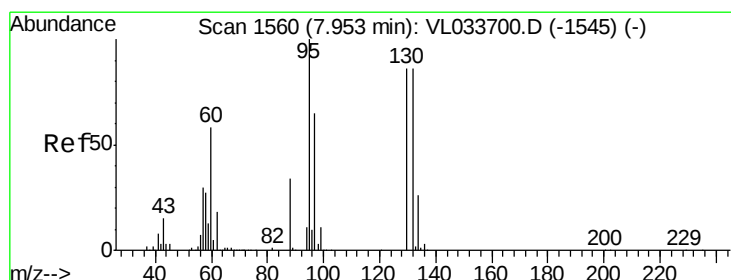
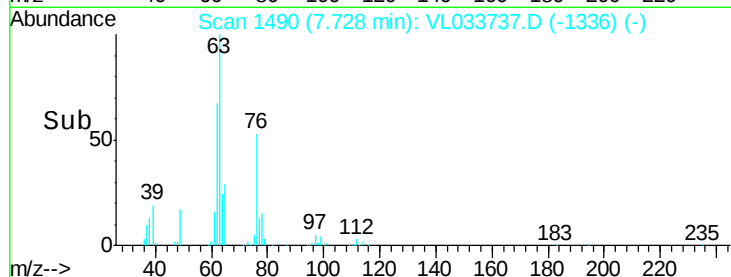
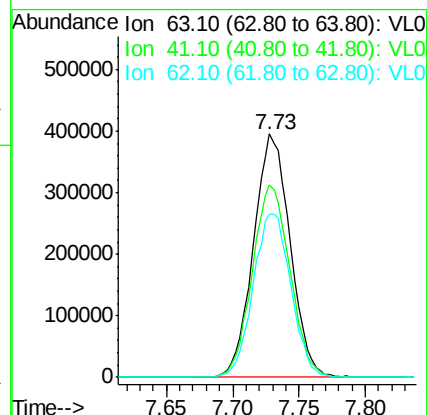
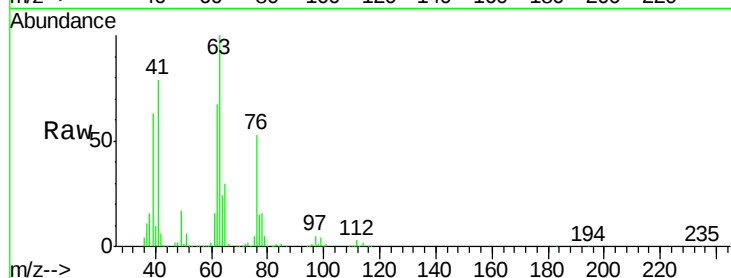
Tot Ion: 63 Resp: 761418

Ion Ratio Lower Upper

63 100

41 79.0 61.5 92.3

62 66.9 56.2 84.4



#40

1,4-Dioxane

Concen: 9.034 ppbv

RT: 7.95 min Scan# 1558

Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Tgt Ion: 88 Resp: 298862

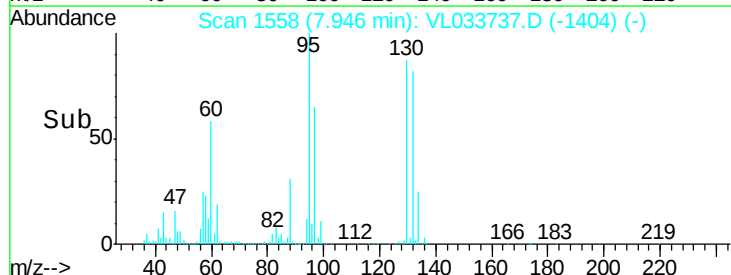
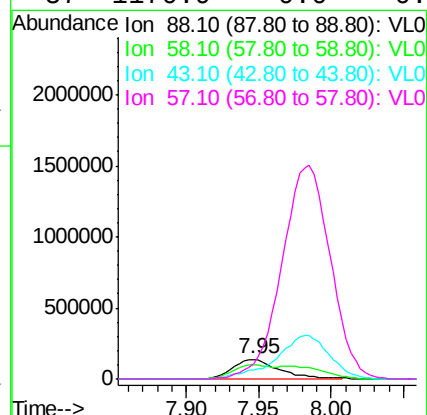
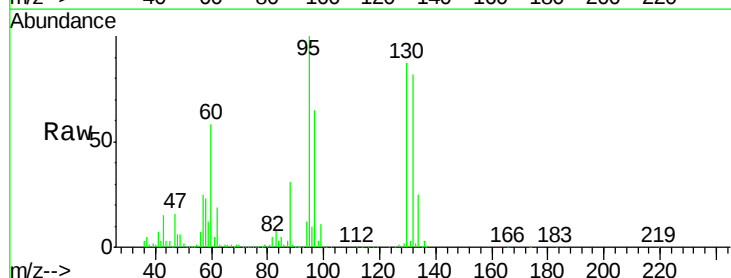
Ion Ratio Lower Upper

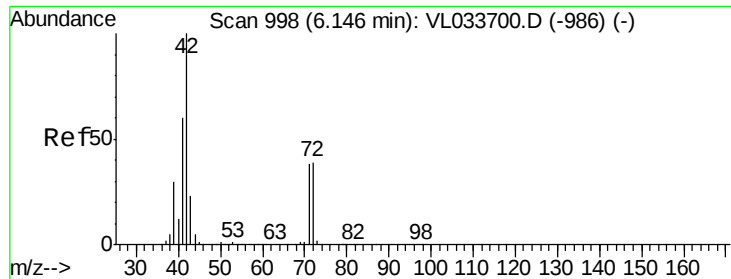
88 100

58 128.7 101.8 152.6

43 261.9 0.0 0.0#

57 1170.9 0.0 0.0#





#41

Tetrahydrofuran

Concen: 9.802 ppbv

RT: 6.14 min Scan# 996

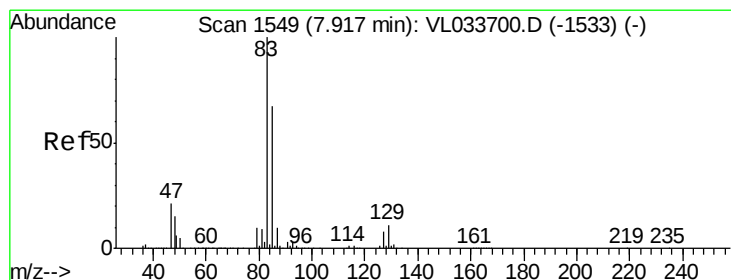
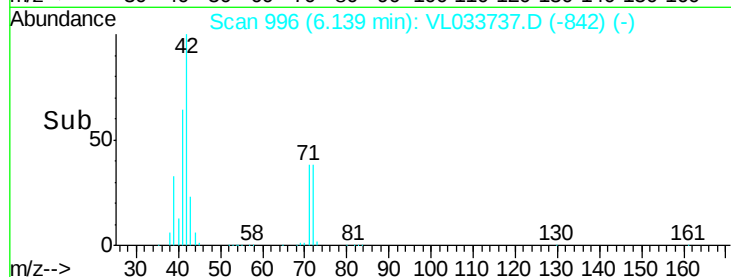
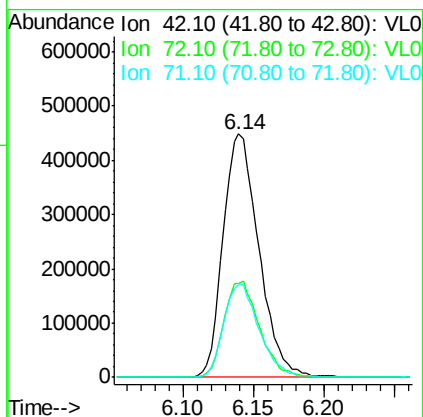
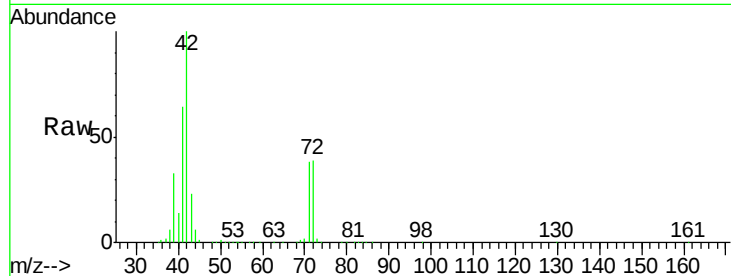
Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	42	Resp:	793771
Ion	Ratio	Lower	Upper
42	100		
72	39.5	32.0	48.0
71	38.2	30.4	45.6



#42

Bromodichloromethane

Concen: 10.025 ppbv

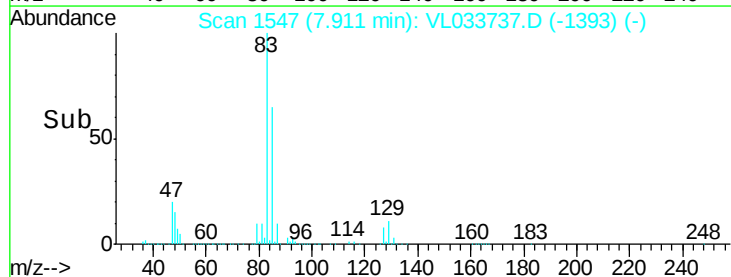
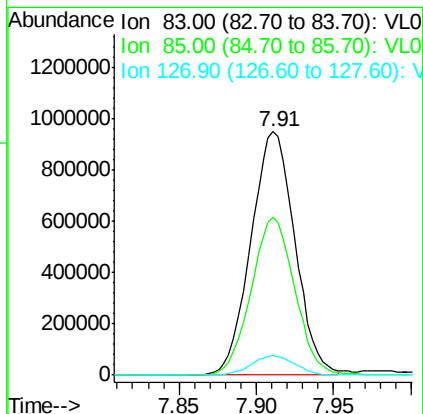
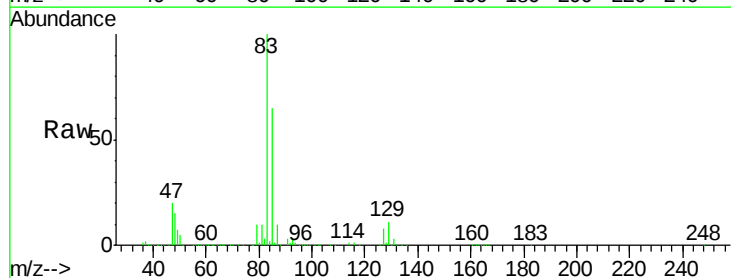
RT: 7.91 min Scan# 1547

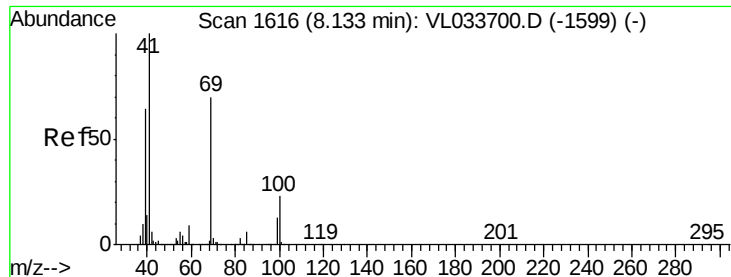
Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Tgt Ion:	83	Resp:	1877956
Ion	Ratio	Lower	Upper
83	100		
85	64.9	53.3	79.9
127	8.1	6.5	9.7





#43

Methvl Methacrilate

Concen: 10.609 ppbv

RT: 8.13 min Scan# 1615

Delta R.T. -0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :
MSVOA_L
ClientSampleId :

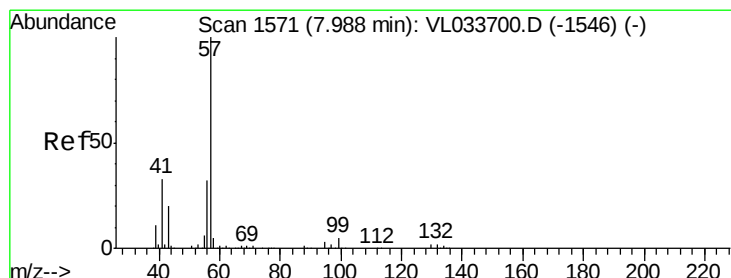
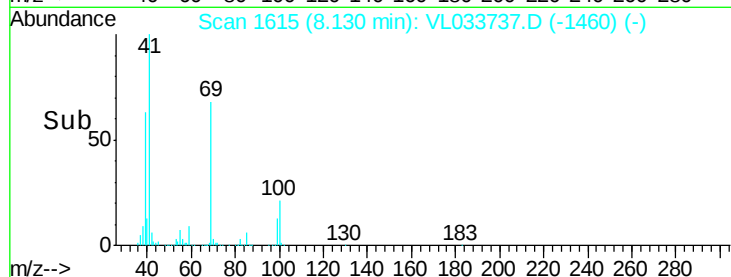
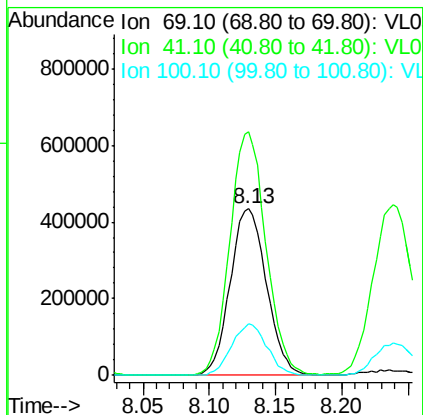
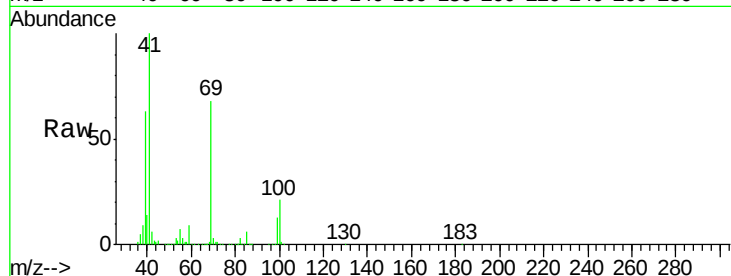
Tot Ion: 69 Resp: 828179

Ion Ratio Lower Upper

69 100

41 145.0 116.3 174.5

100 30.1 25.3 37.9



#44

2,2,4-Trimethylpentane

Concen: 9.753 ppbv

RT: 7.98 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

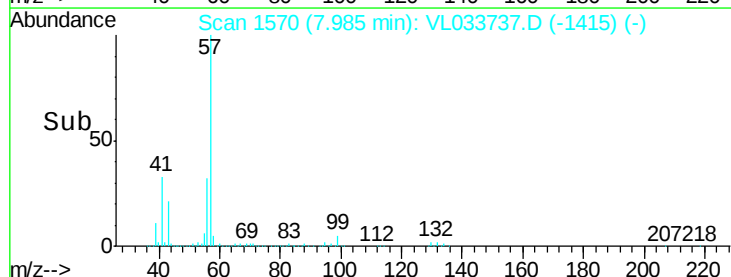
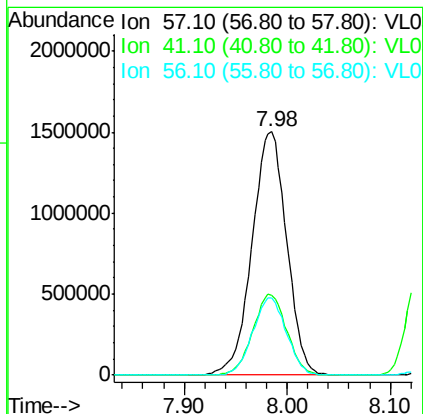
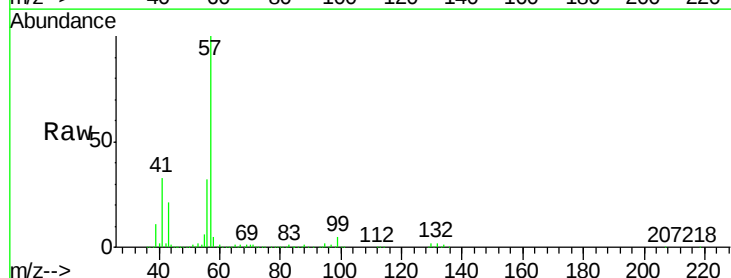
Tgt Ion: 57 Resp: 3496420

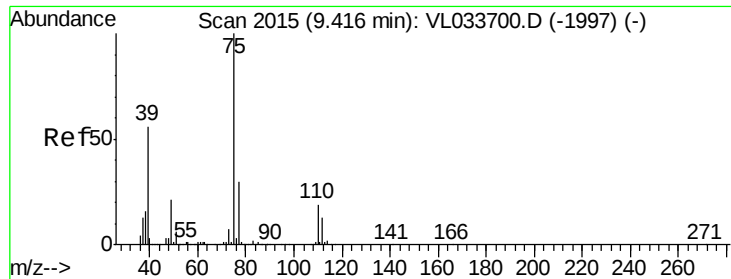
Ion Ratio Lower Upper

57 100

41 32.8 25.4 38.0

56 31.0 24.7 37.1





#45

t-1,3-Dichloropropene

Concen: 11.806 ppbv

RT: 9.41 min Scan# 2012

Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

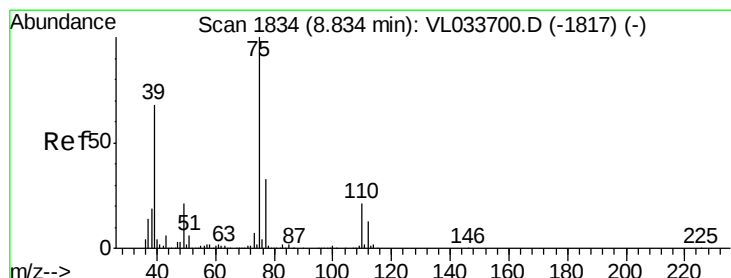
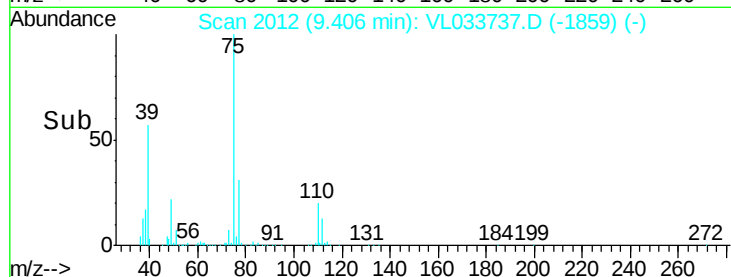
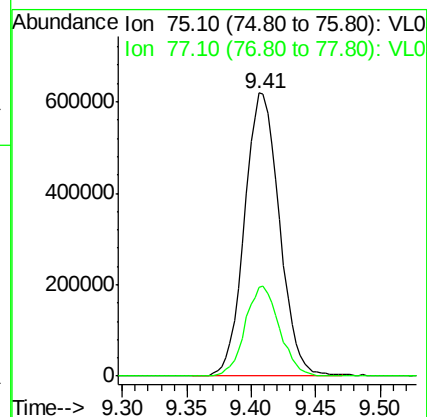
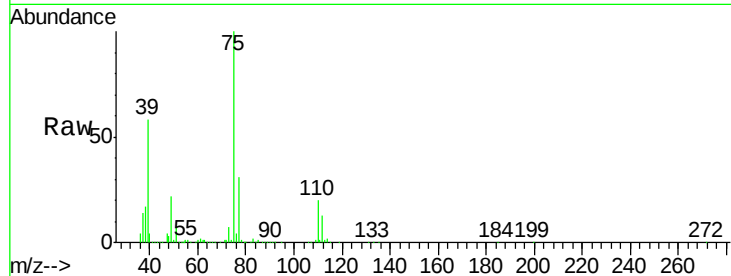
ClientSampleId :

Tot Ion: 75 Resp: 1168339

Ion Ratio Lower Upper

75 100

77 31.4 24.4 36.6



#46

cis-1,3-Dichloropropene

Concen: 11.162 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

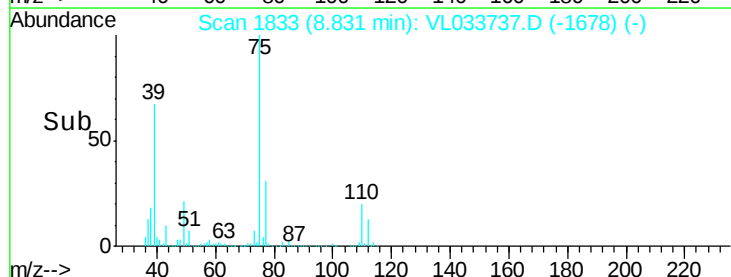
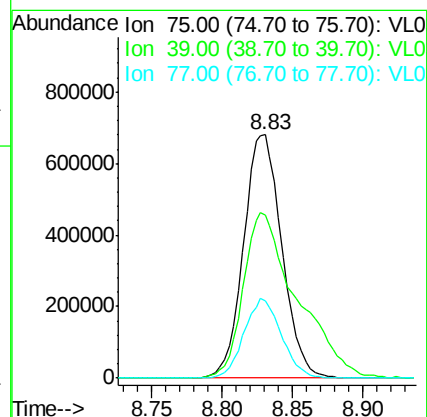
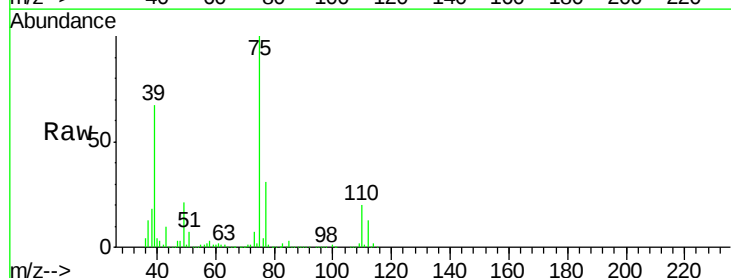
Tgt Ion: 75 Resp: 1293488

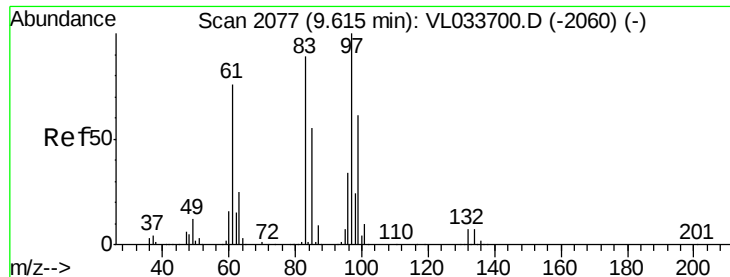
Ion Ratio Lower Upper

75 100

39 67.0 54.4 81.6

77 31.5 26.6 39.8

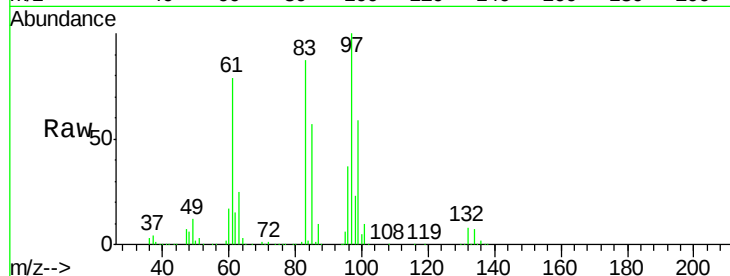




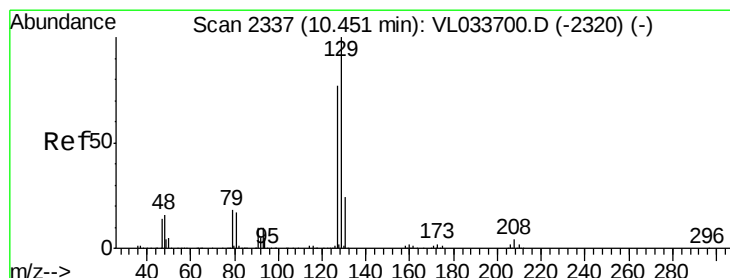
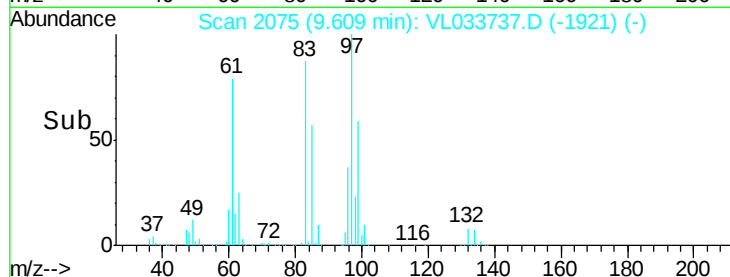
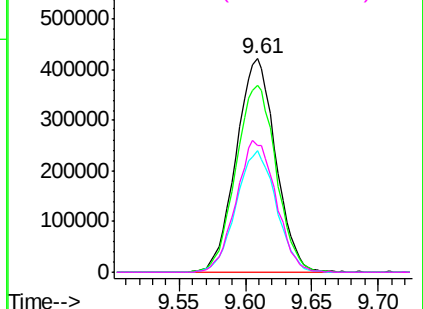
#47
 1,1,2-Trichloroethane
 Concen: 9.708 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.01 min
 Lab File: VL033737.D
 Acq: 21 May 2019 8:48

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 97 Resp: 872155
 Ion Ratio Lower Upper
 97 100
 83 87.3 70.8 106.2
 85 56.6 43.7 65.5
 99 59.4 48.7 73.1

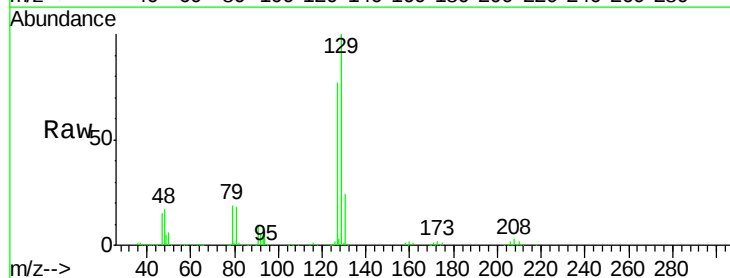


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

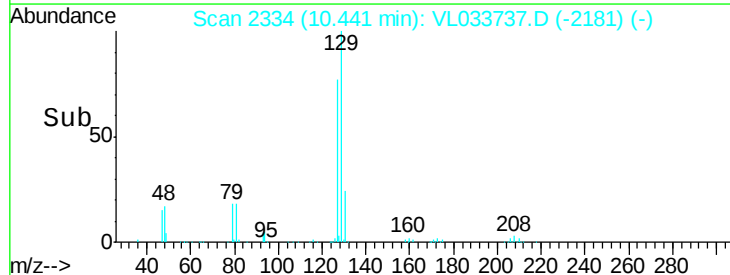
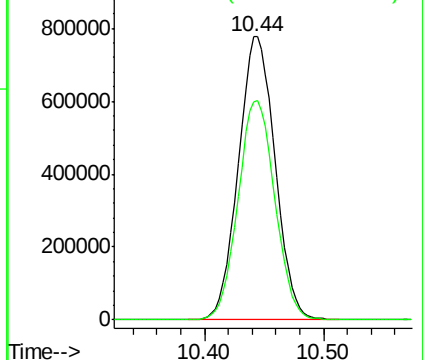


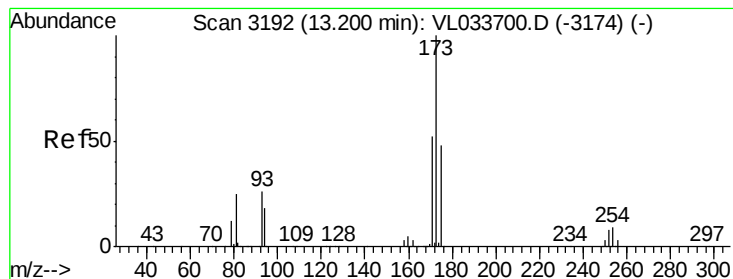
#48
 Dibromochloromethane
 Concen: 10.659 ppbv
 RT: 10.44 min Scan# 2334
 Delta R.T. -0.01 min
 Lab File: VL033737.D
 Acq: 21 May 2019 8:48

Tgt Ion: 129 Resp: 1659190
 Ion Ratio Lower Upper
 129 100
 127 77.9 38.6 116.0



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.244 ppbv

RT: 13.19 min Scan# 3189

Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

ClientSampleId :

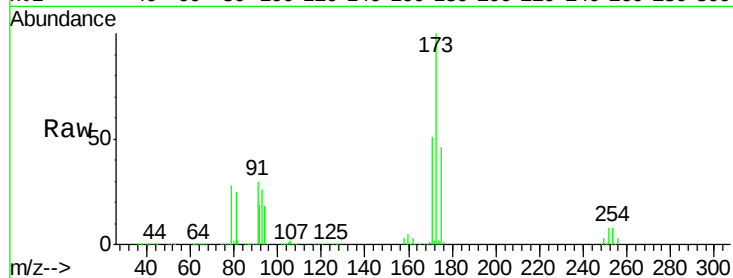
Tot Ion:173 Resp: 1472738

Ion Ratio Lower Upper

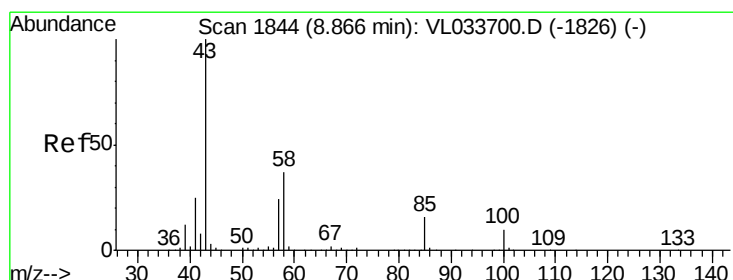
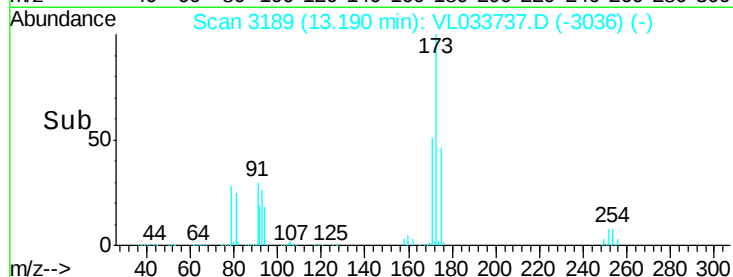
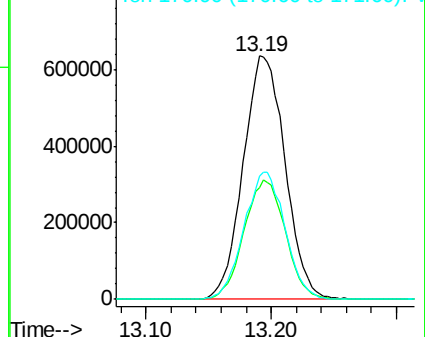
173 100

175 48.6 38.6 58.0

171 51.3 41.5 62.3



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: 10.137 ppbv

RT: 8.86 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VL033737.D

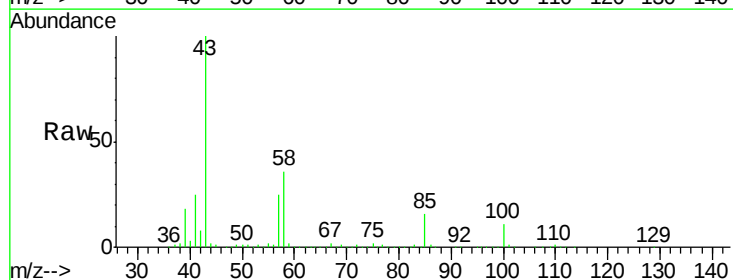
Acq: 21 May 2019 8:48

Tgt Ion: 43 Resp: 2253707

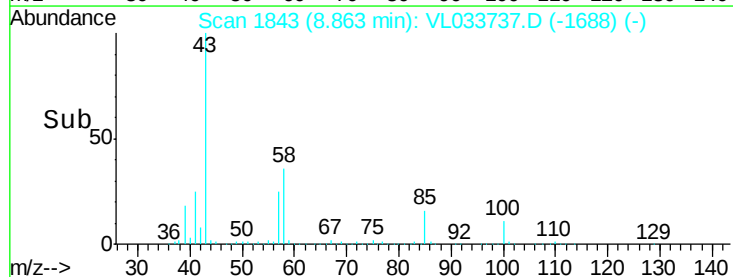
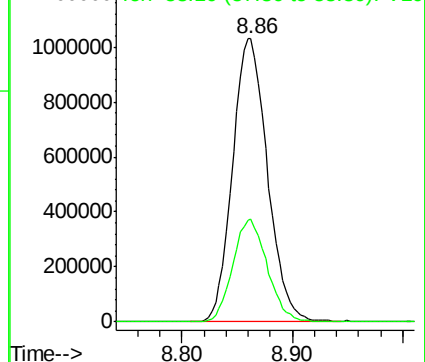
Ion Ratio Lower Upper

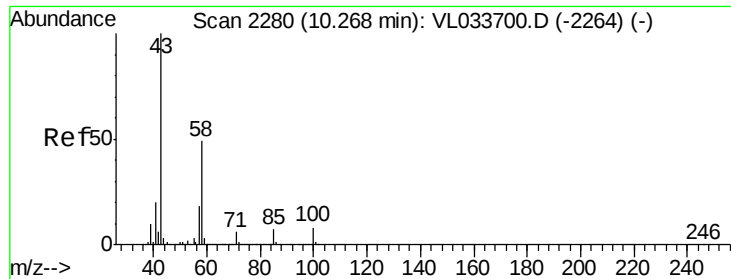
43 100

58 35.9 28.6 43.0



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.724 ppbv

RT: 10.26 min Scan# 2278

Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

ClientSampled :

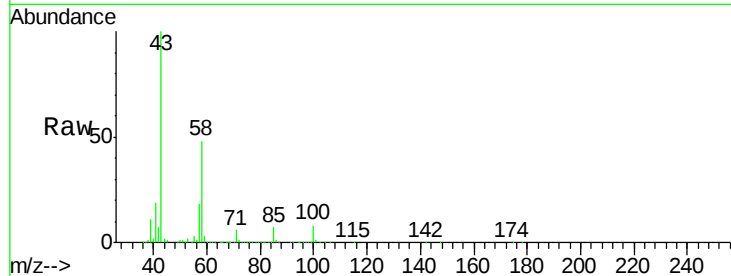
Tot Ion: 43 Resp: 1860826

Ion Ratio Lower Upper

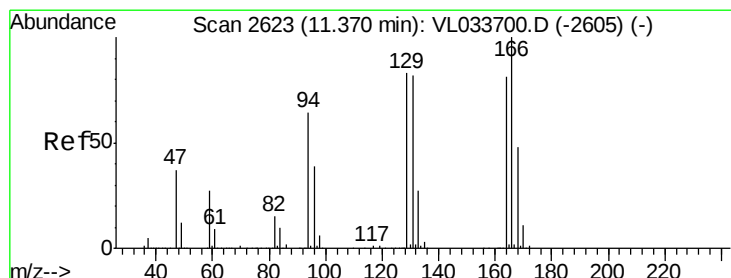
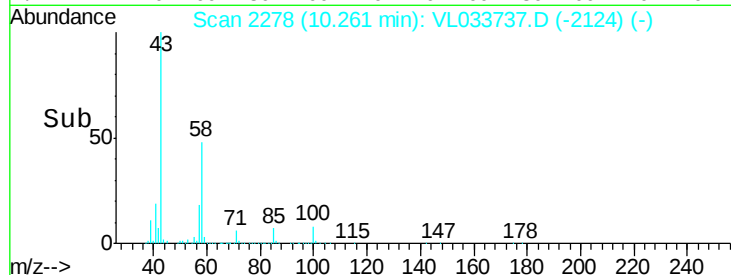
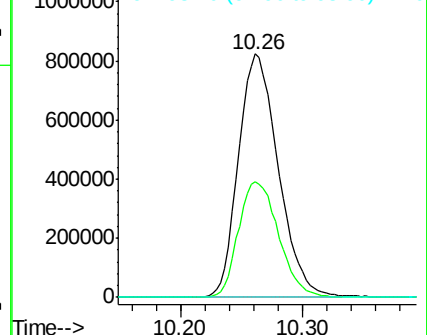
43 100

58 47.9 38.7 58.1

98 0.3 0.2 0.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 10.559 ppbv

RT: 11.36 min Scan# 2621

Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Tgt Ion: 164 Resp: 787336

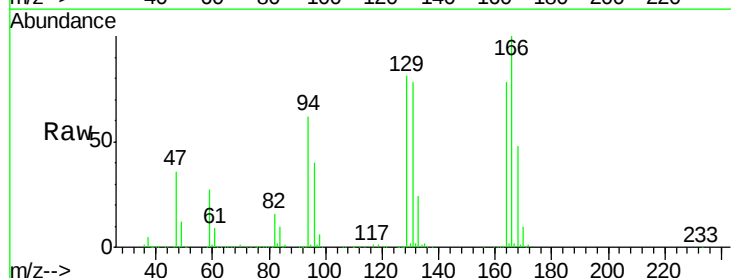
Ion Ratio Lower Upper

164 100

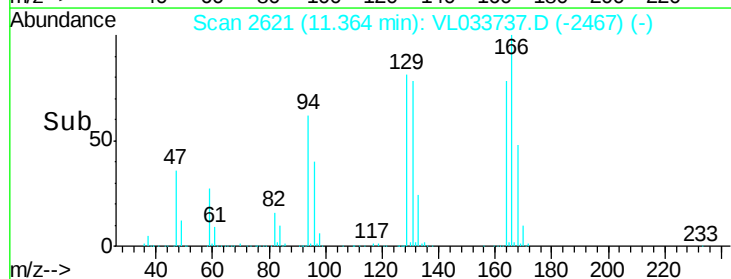
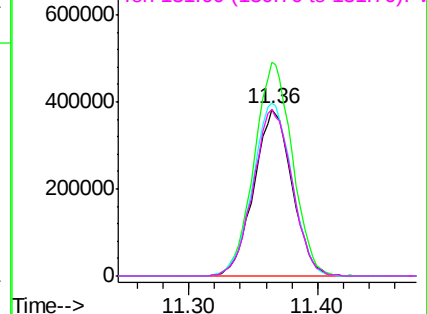
166 127.9 98.9 148.3

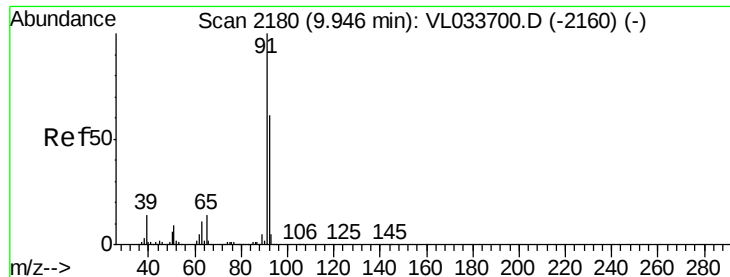
129 103.2 81.8 122.6

131 99.5 81.1 121.7



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 10.644 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

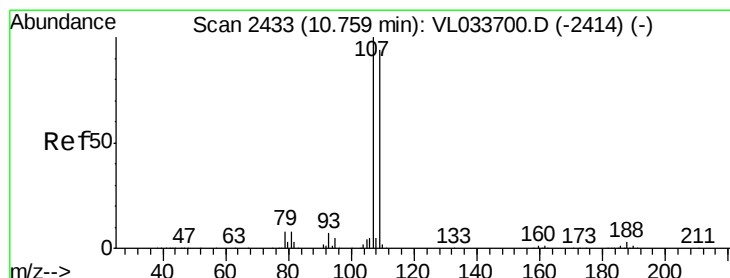
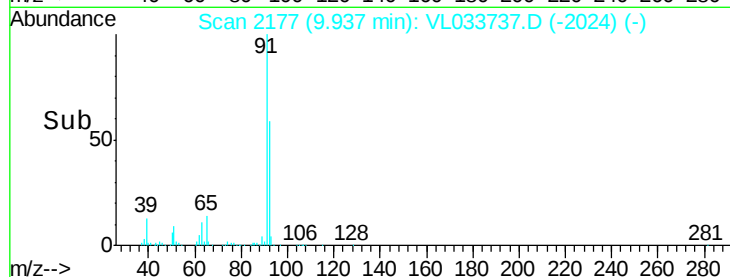
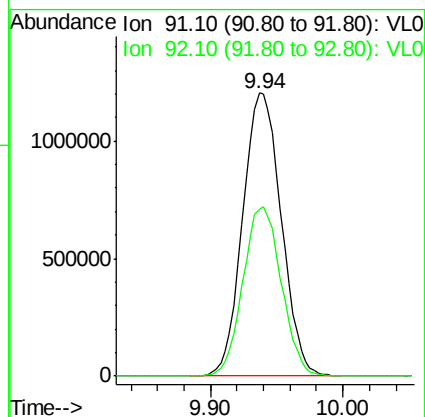
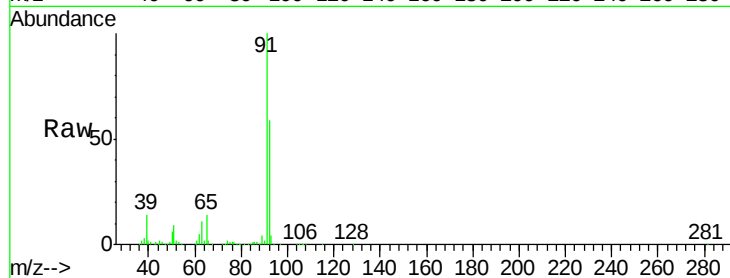
ClientSampleId :

Tot Ion: 91 Resp: 2435217

Ion Ratio Lower Upper

91 100

92 59.5 47.6 71.4



#54

1,2-Dibromoethane

Concen: 10.225 ppbv

RT: 10.75 min Scan# 2431

Delta R.T. -0.01 min

Lab File: VL033737.D

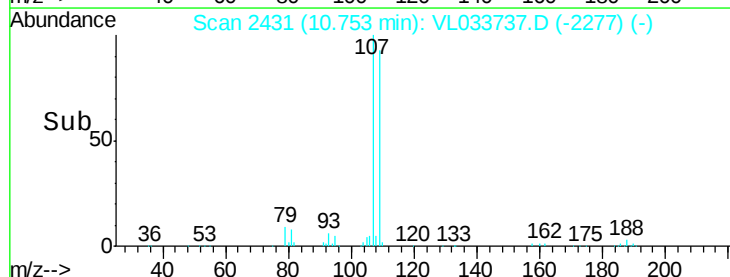
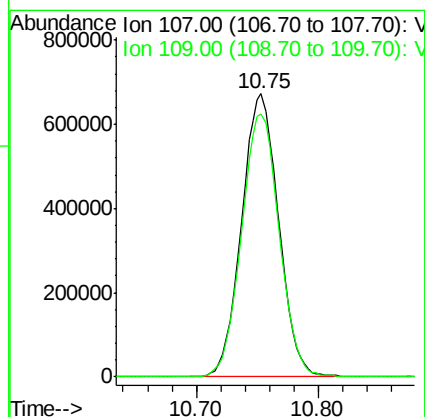
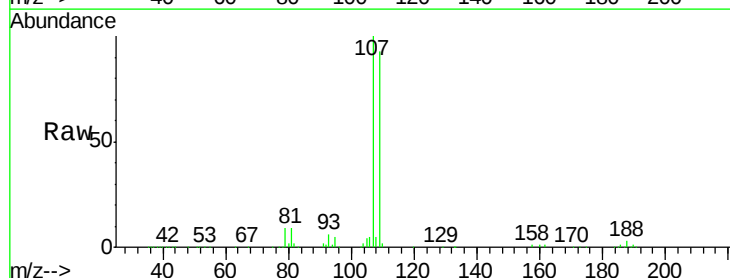
Acq: 21 May 2019 8:48

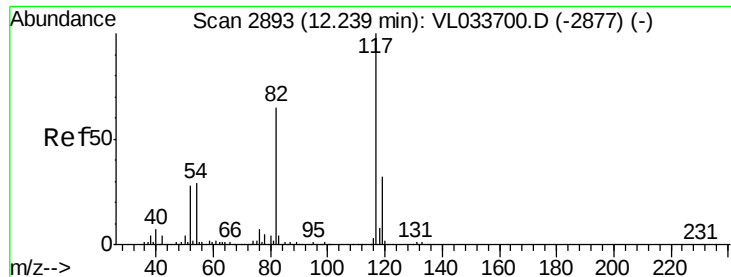
Tgt Ion:107 Resp: 1401868

Ion Ratio Lower Upper

107 100

109 92.8 75.2 112.8

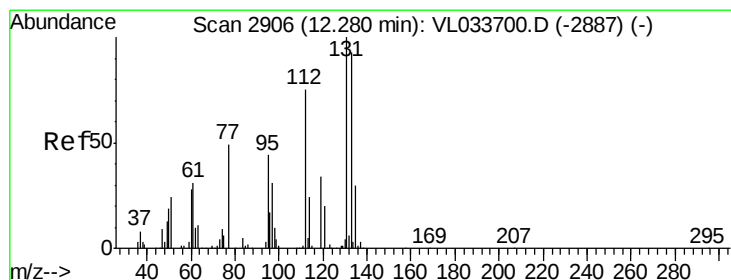
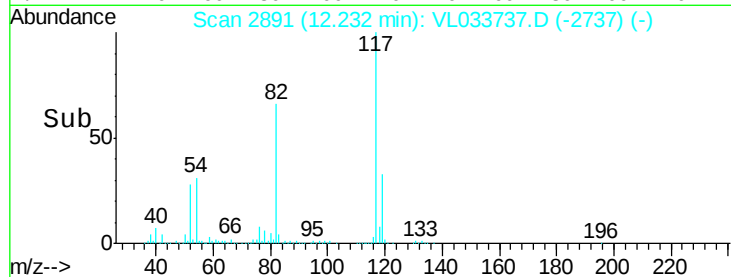
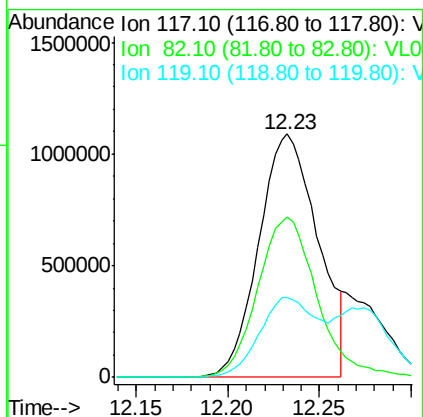
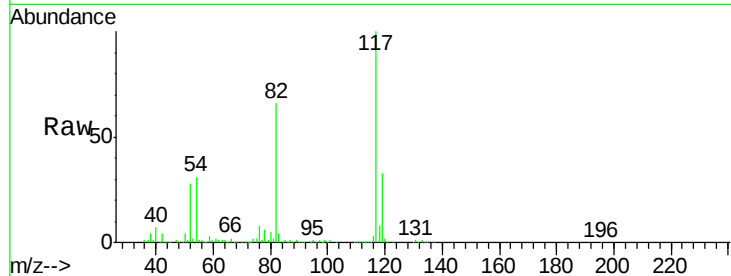




#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033737.D
Acq: 21 May 2019 8:48

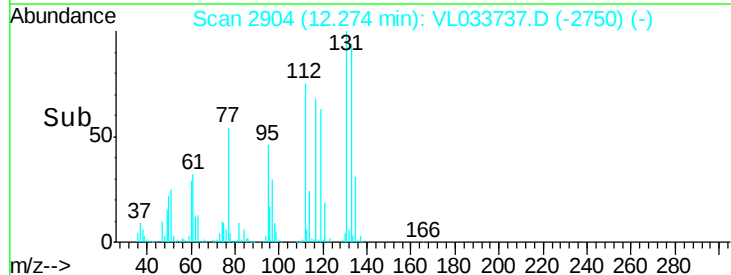
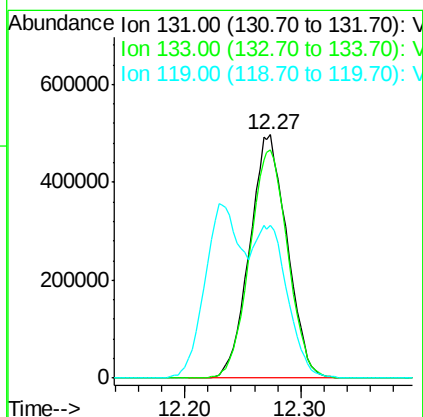
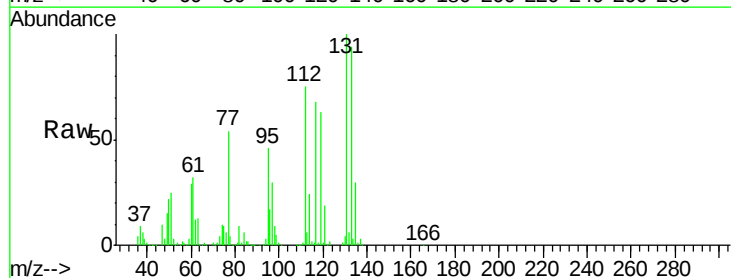
Instrument :
MSVOA_L
ClientSampled :

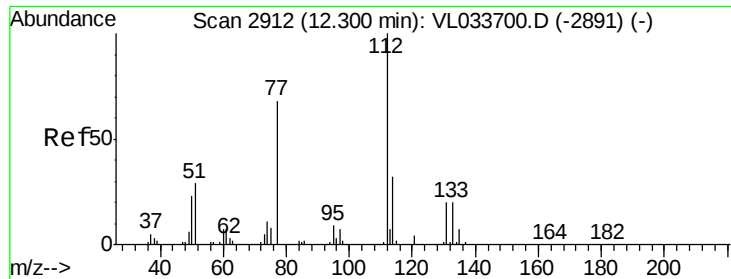
Tot Ion:117 Resp: 2445550
Ion Ratio Lower Upper
117 100
82 66.4 49.4 74.0
119 32.7 24.9 37.3



#56
1,1,1,2-Tetrachloroethane
Concen: 9.868 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.01 min
Lab File: VL033737.D
Acq: 21 May 2019 8:48

Tgt Ion:131 Resp: 1116676
Ion Ratio Lower Upper
131 100
133 95.3 76.6 114.8
119 52.7 49.0 73.4

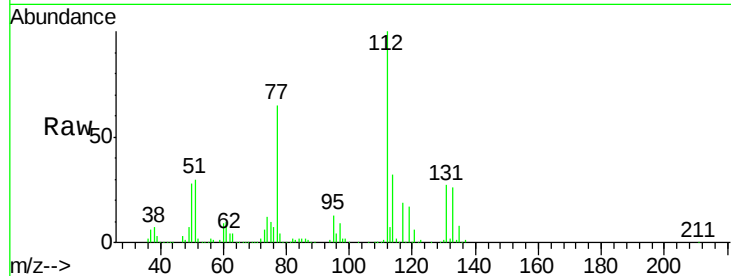




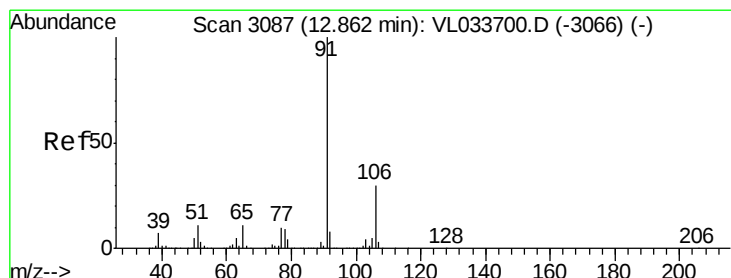
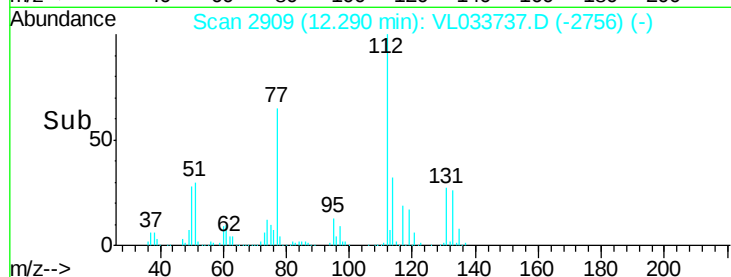
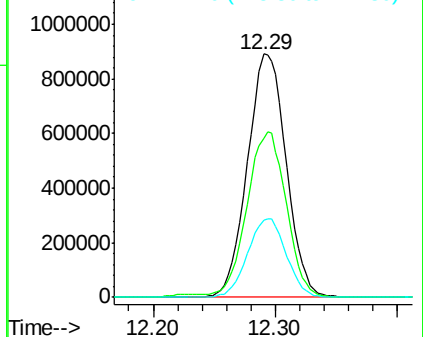
#57
Chlorobenzene
Concen: 9.698 ppbv
RT: 12.29 min Scan# 2909
Delta R.T. -0.01 min
Lab File: VL033737.D
Acq: 21 May 2019 8:48

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:112 Resp: 1952173
Ion Ratio Lower Upper
112 100
77 65.2 55.4 83.0
114 32.0 29.3 35.8

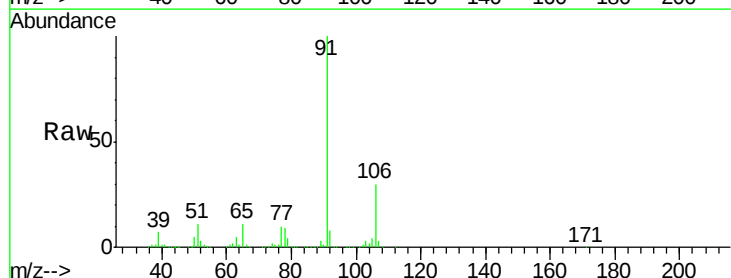


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

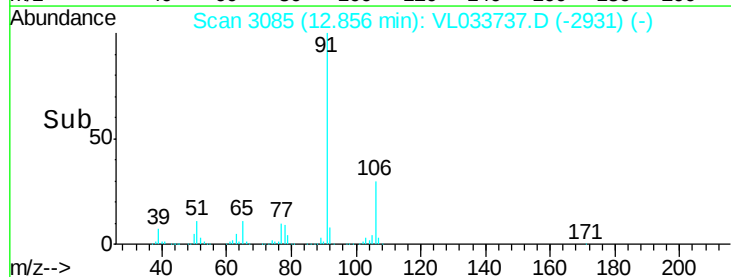
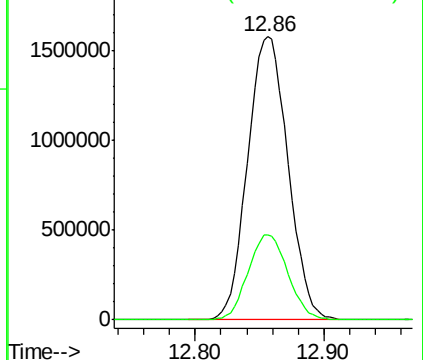


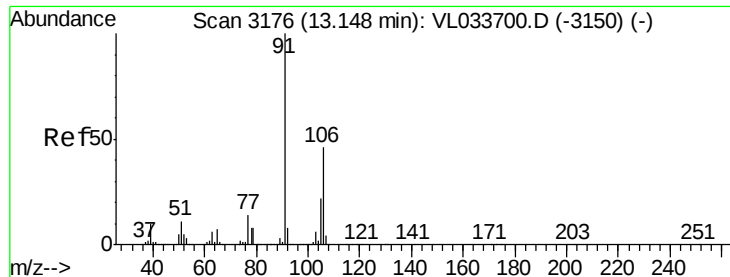
#58
Ethyl Benzene
Concen: 10.631 ppbv
RT: 12.86 min Scan# 3085
Delta R.T. -0.01 min
Lab File: VL033737.D
Acq: 21 May 2019 8:48

Tgt Ion: 91 Resp: 3442967
Ion Ratio Lower Upper
91 100
106 29.8 23.9 35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 20.340 ppbv m

RT: 13.14 min Scan# 3174

Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

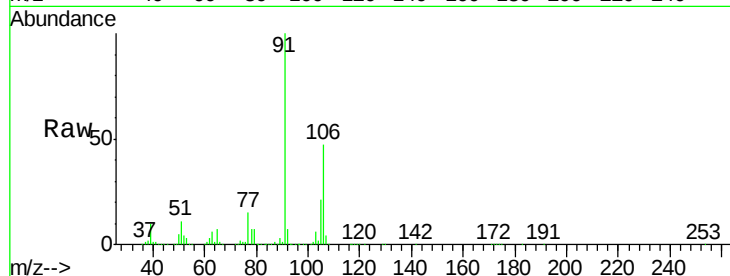
ClientSampleId :

Tot Ion: 91 Resp: 5758204

Ion Ratio Lower Upper

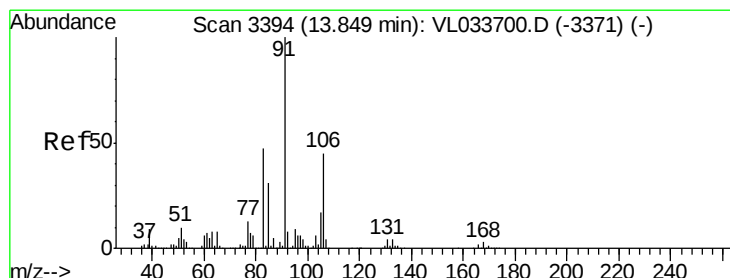
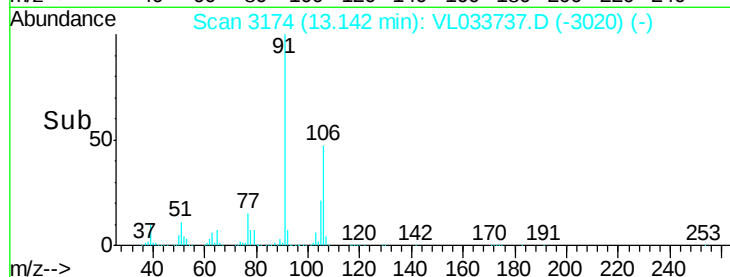
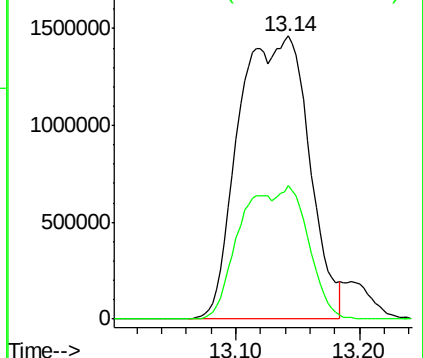
91 100

106 45.1 35.8 53.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 10.276 ppbv

RT: 13.84 min Scan# 3392

Delta R.T. -0.01 min

Lab File: VL033737.D

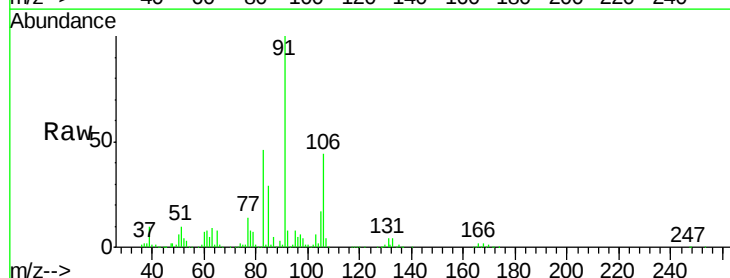
Acq: 21 May 2019 8:48

Tgt Ion: 91 Resp: 2932499

Ion Ratio Lower Upper

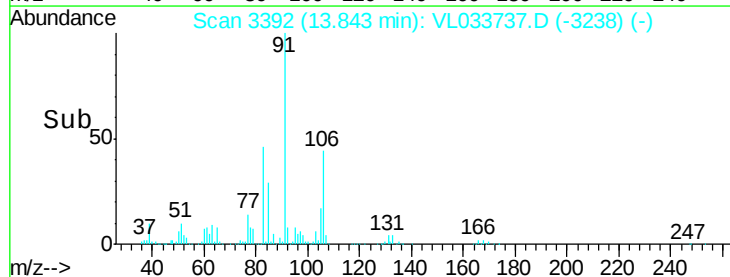
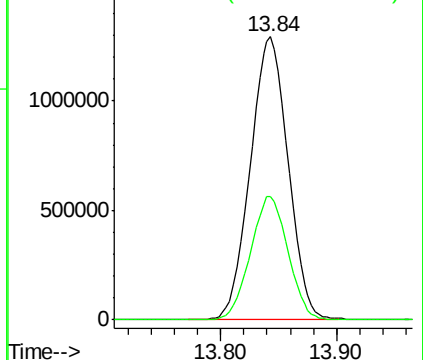
91 100

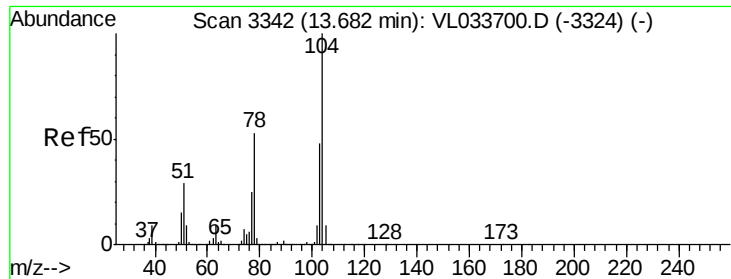
106 43.3 21.6 64.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 11.261 ppbv

RT: 13.68 min Scan# 3340

Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

ClientSampled :

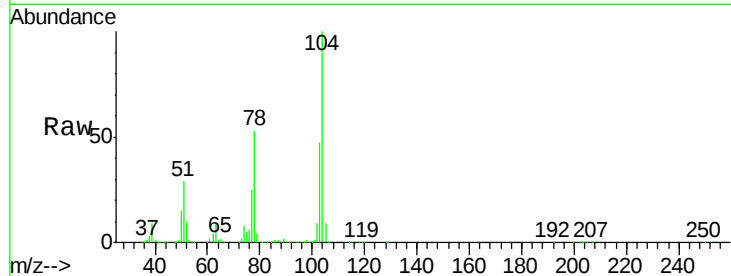
Tot Ion:104 Resp: 2163564

Ion Ratio Lower Upper

104 100

78 54.1 42.6 64.0

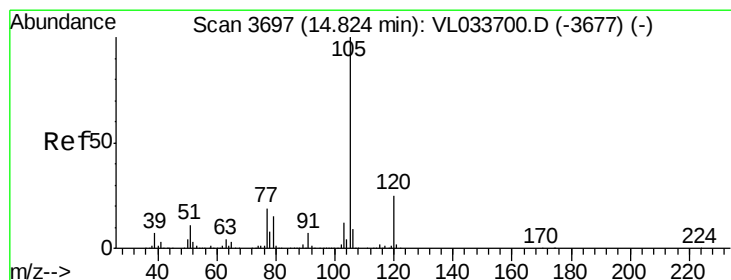
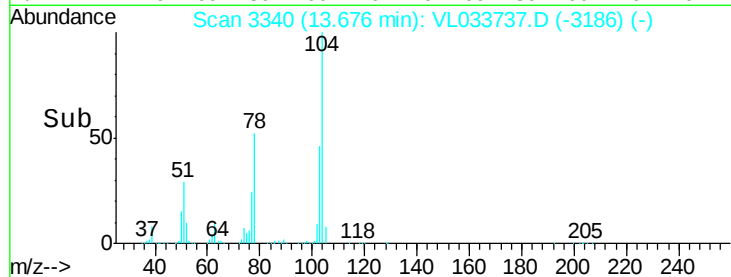
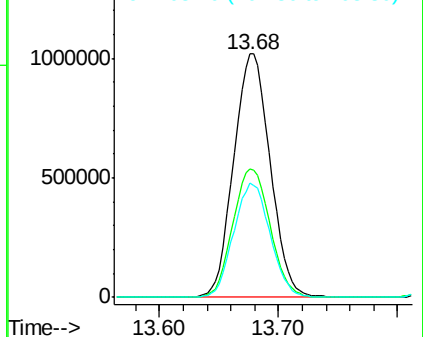
103 47.0 37.8 56.6



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: 10.023 ppbv

RT: 14.82 min Scan# 3695

Delta R.T. -0.01 min

Lab File: VL033737.D

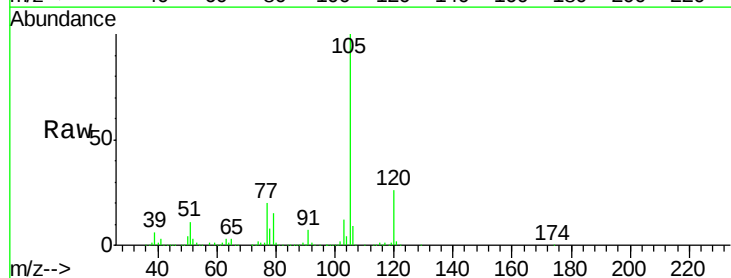
Acq: 21 May 2019 8:48

Tgt Ion:105 Resp: 3851962

Ion Ratio Lower Upper

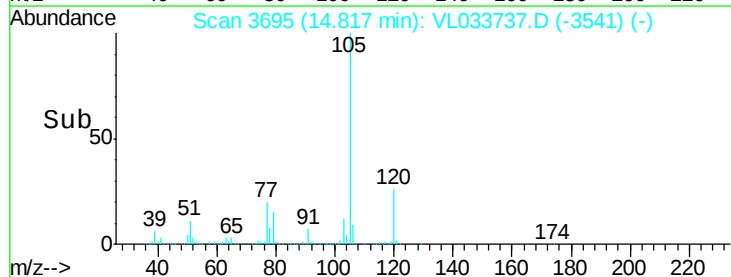
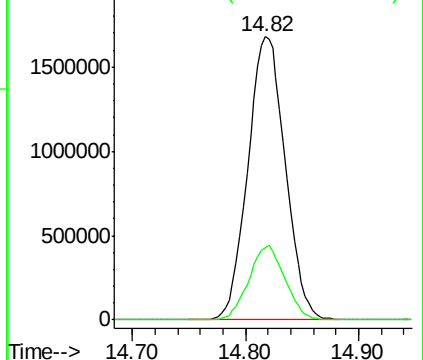
105 100

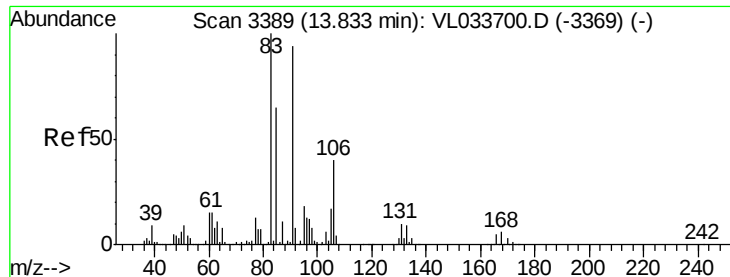
120 25.4 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

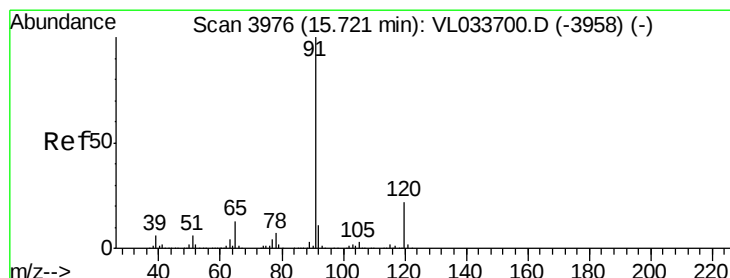
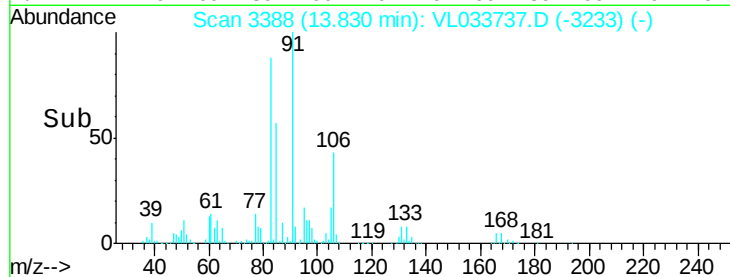
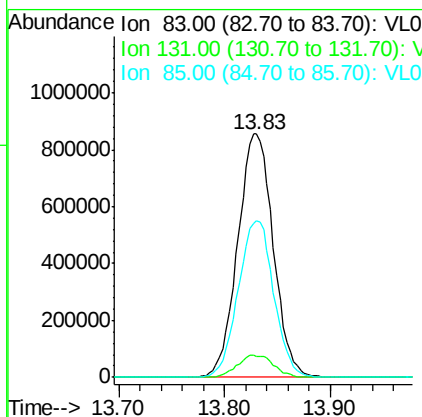
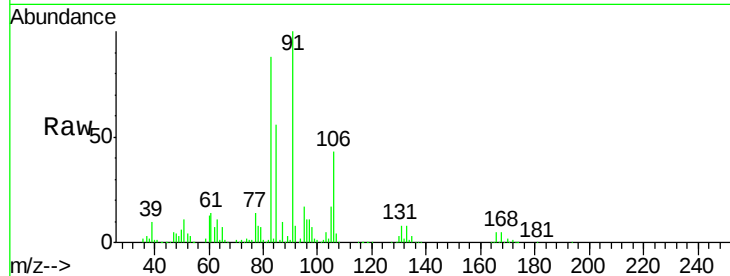




#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.620 ppbv
 RT: 13.83 min Scan# 3388
 Delta R.T. -0.00 min
 Lab File: VL033737.D
 Acq: 21 May 2019 8:48

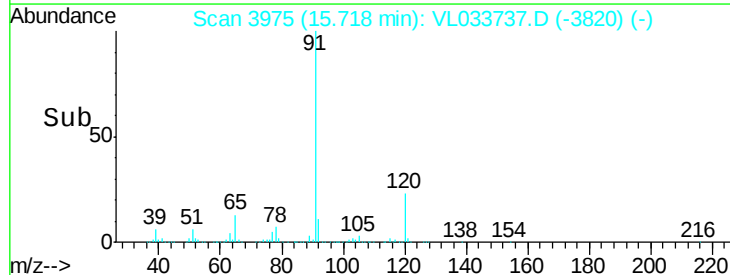
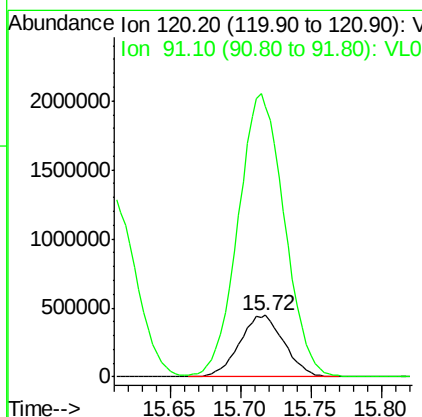
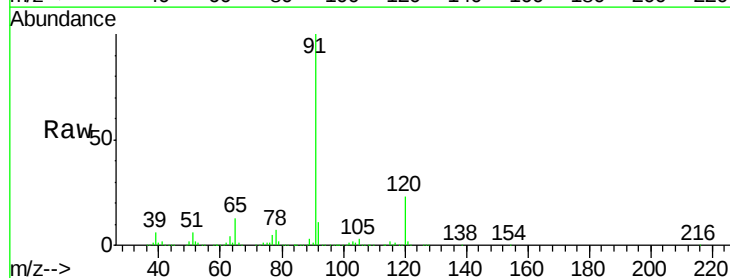
Instrument :
 MSVOA_L
 ClientSampled :

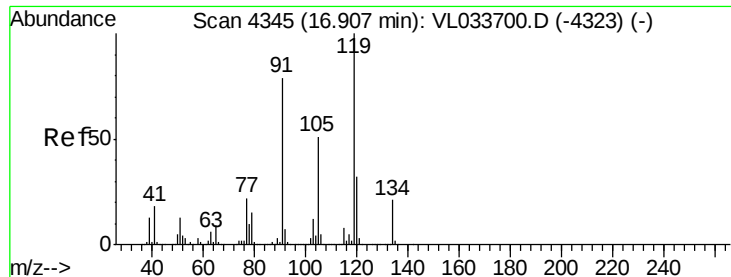
Tot Ion: 83 Resp: 1996418
 Ion Ratio Lower Upper
 83 100
 131 9.4 4.8 14.3
 85 64.6 32.3 96.9



#64
 n-propylbenzene
 Concen: 9.945 ppbv
 RT: 15.72 min Scan# 3975
 Delta R.T. -0.00 min
 Lab File: VL033737.D
 Acq: 21 May 2019 8:48

Tgt Ion:120 Resp: 988691
 Ion Ratio Lower Upper
 120 100
 91 477.3 379.1 568.7





#65

tert-Butylbenzene

Concen: 9.978 ppbv

RT: 16.90 min Scan# 4344

Delta R.T. -0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

ClientSampleId :

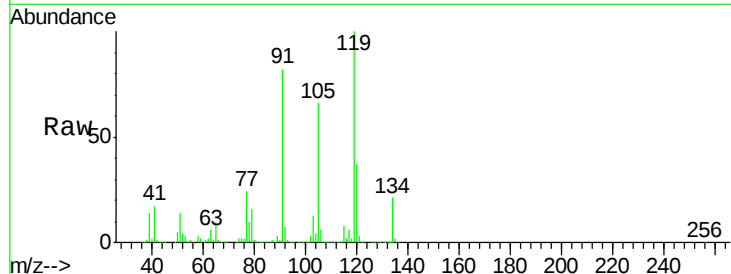
Tot Ion:119 Resp: 3501263

Ion Ratio Lower Upper

119 100

91 83.1 65.3 97.9

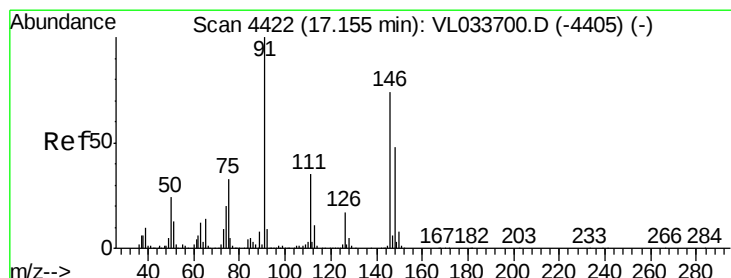
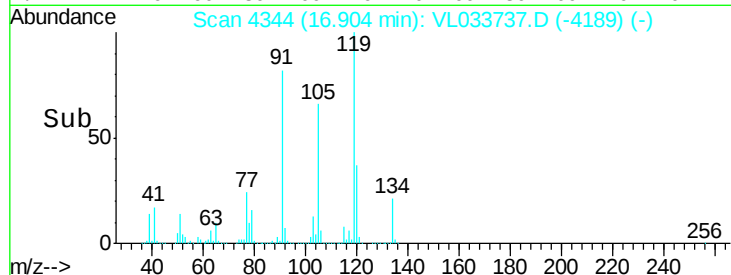
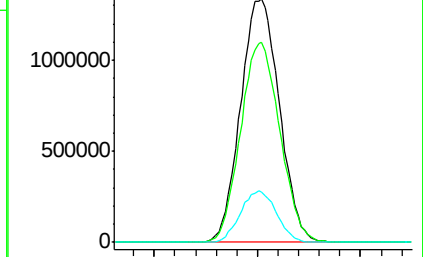
134 19.7 15.7 23.5



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.901 ppbv

RT: 17.15 min Scan# 4420

Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

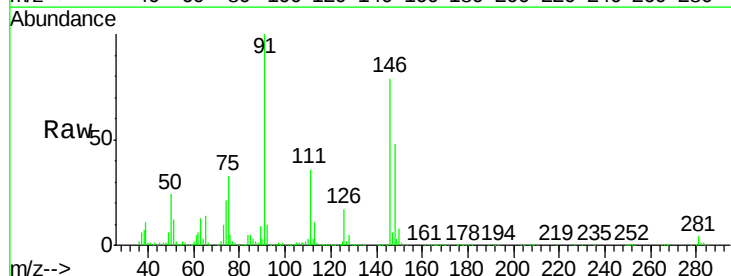
Tgt Ion: 91 Resp: 1989013

Ion Ratio Lower Upper

91 100

126 16.7 13.5 20.3

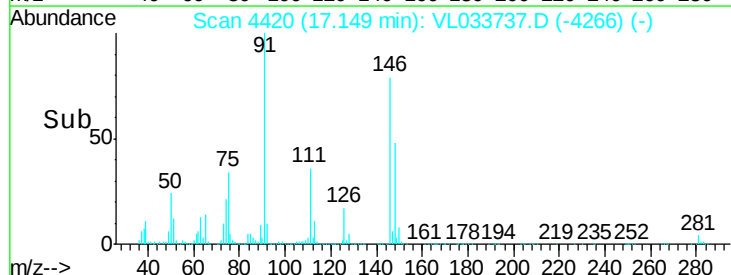
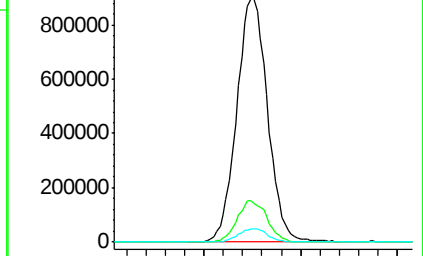
128 5.4 4.3 6.5

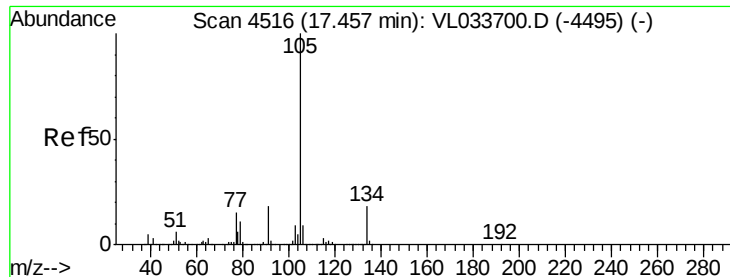


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.925 ppbv

RT: 17.45 min Scan# 4514

Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

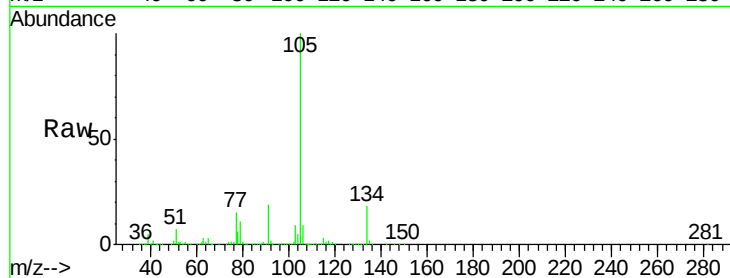
ClientSampleId :

Tot Ion:105 Resp: 4874239

Ion Ratio Lower Upper

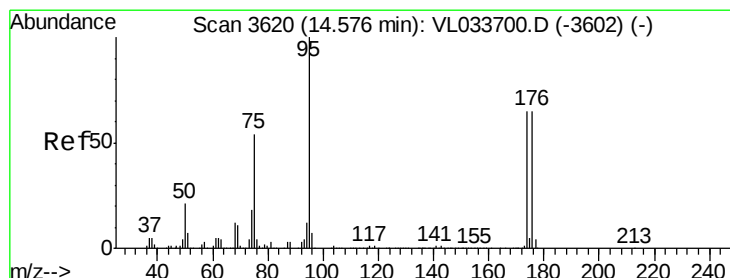
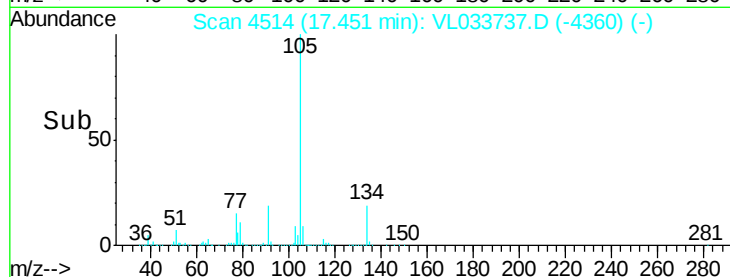
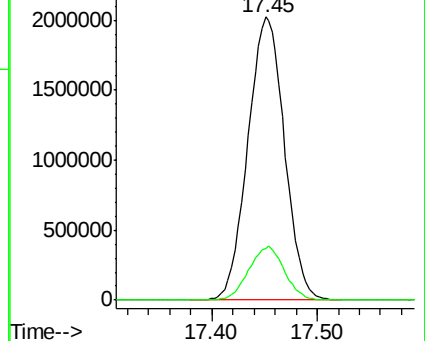
105 100

134 18.5 14.6 22.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.166 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

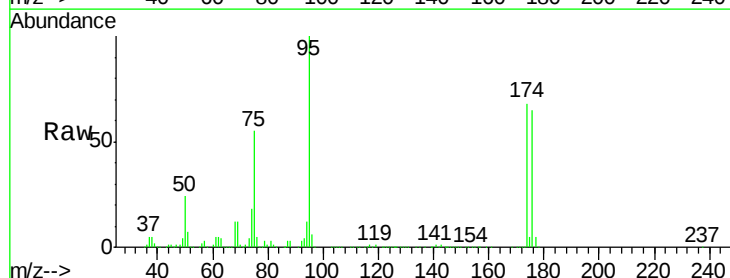
Tgt Ion: 95 Resp: 2015441

Ion Ratio Lower Upper

95 100

174 67.0 53.9 80.9

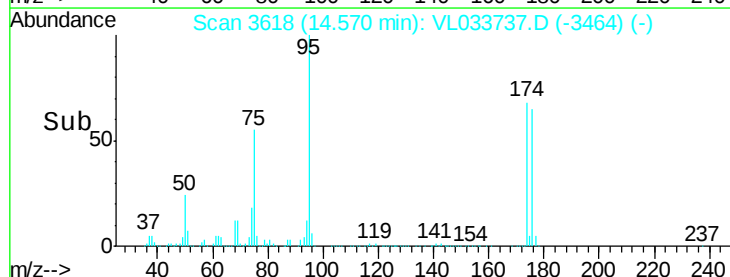
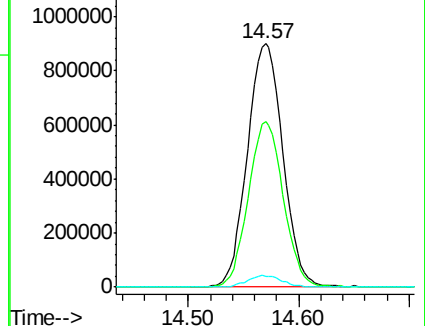
175 4.7 3.8 5.8

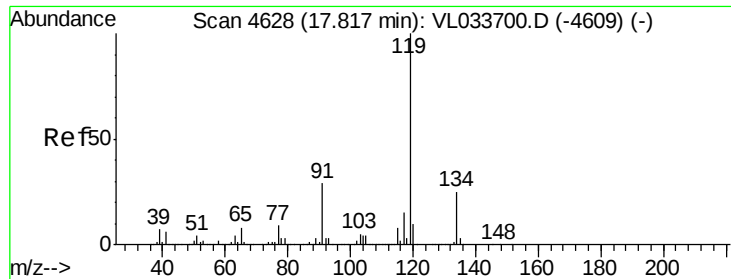


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

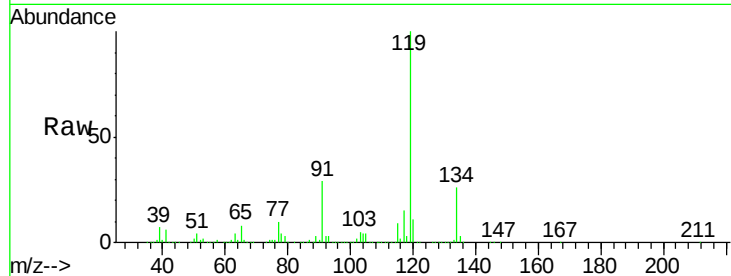




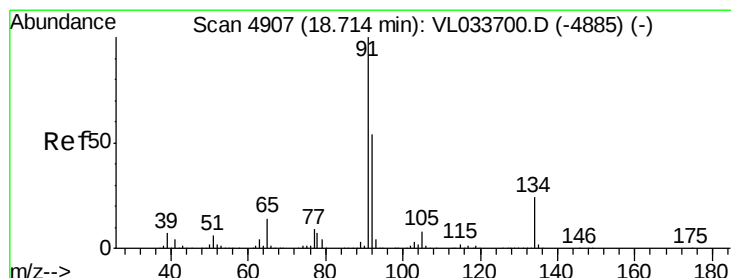
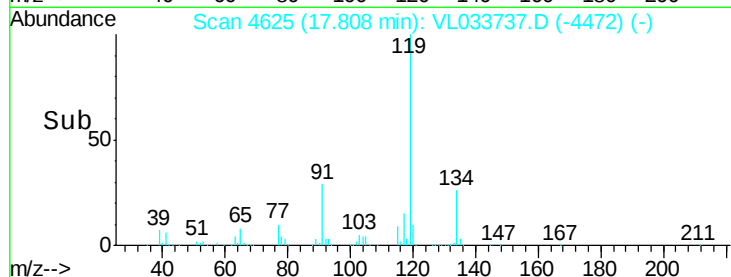
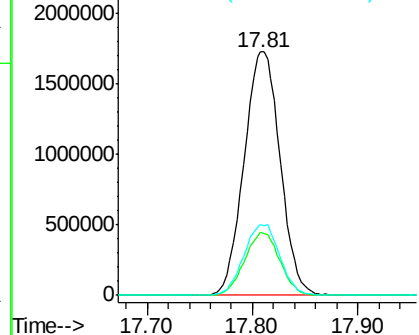
#69
 p-Isopropyltoluene
 Concen: 10.131 ppbv
 RT: 17.81 min Scan# 4625
 Delta R.T. -0.01 min
 Lab File: VL033737.D
 Acq: 21 May 2019 8:48

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion:119 Resp: 4112583
 Ion Ratio Lower Upper
 119 100
 134 25.2 20.3 30.5
 91 29.1 23.1 34.7

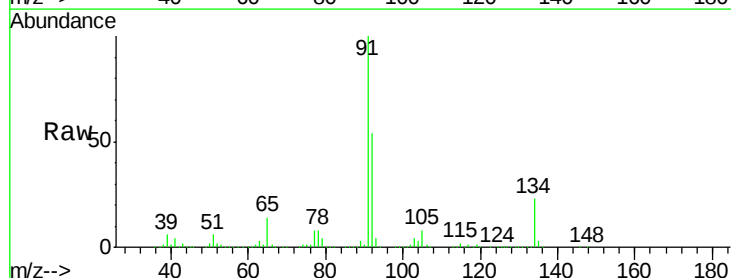


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

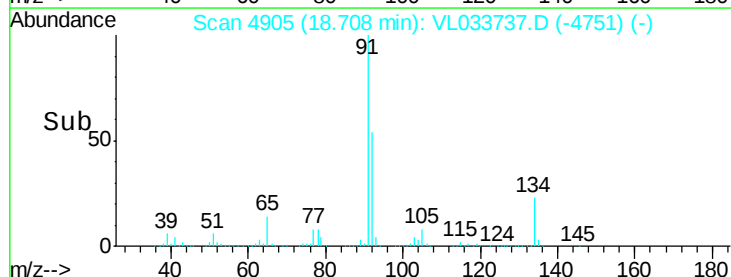
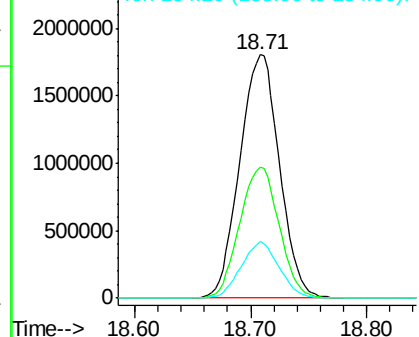


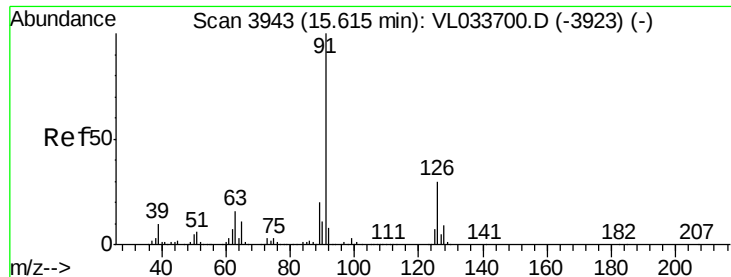
#70
 n-Butylbenzene
 Concen: 9.811 ppbv
 RT: 18.71 min Scan# 4905
 Delta R.T. -0.01 min
 Lab File: VL033737.D
 Acq: 21 May 2019 8:48

Tgt Ion: 91 Resp: 4270667
 Ion Ratio Lower Upper
 91 100
 92 53.8 42.6 63.8
 134 22.2 18.1 27.1



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: 10.203 ppbv

RT: 15.61 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

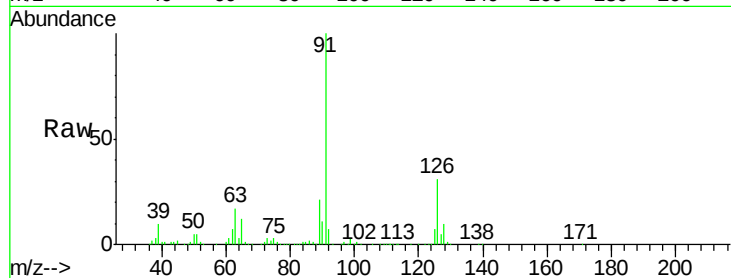
ClientSampleId :

Tot Ion: 91 Resp: 2909261

Ion Ratio Lower Upper

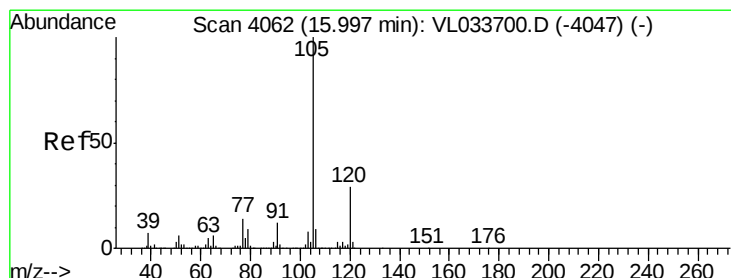
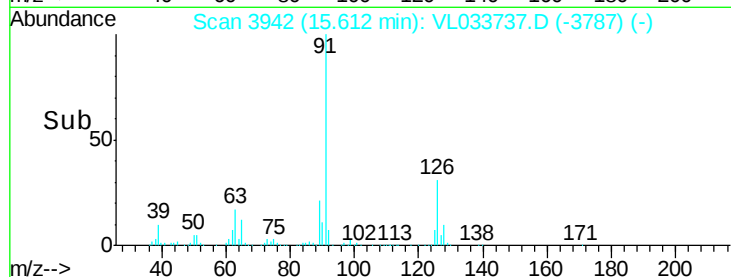
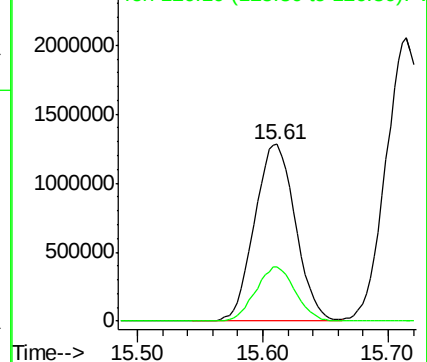
91 100

126 29.7 12.0 47.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.386 ppbv

RT: 15.99 min Scan# 4061

Delta R.T. -0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Tgt Ion:105 Resp: 3388965

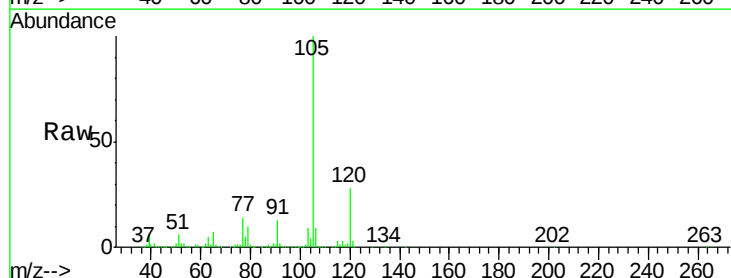
Ion Ratio Lower Upper

105 100

120 28.9 23.1 34.7

91 13.0 10.4 15.6

77 14.0 11.0 16.6

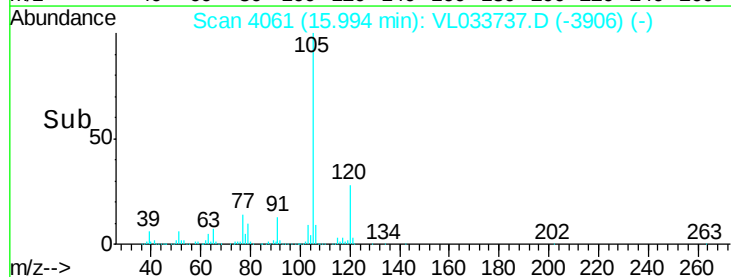
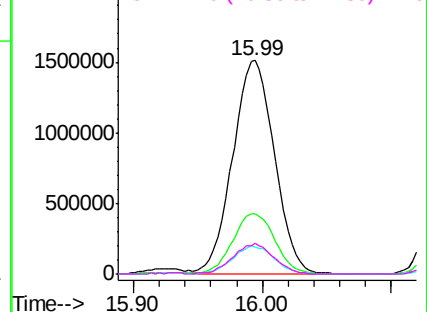


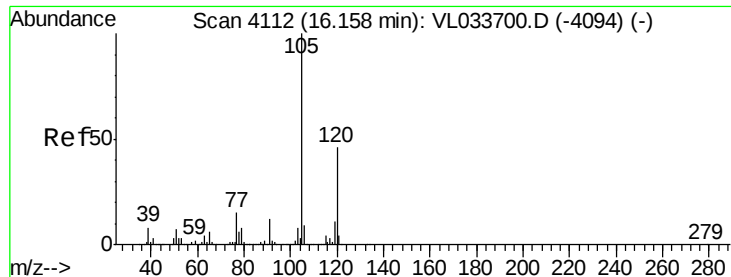
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 10.139 ppbv

RT: 16.15 min Scan# 4109

Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

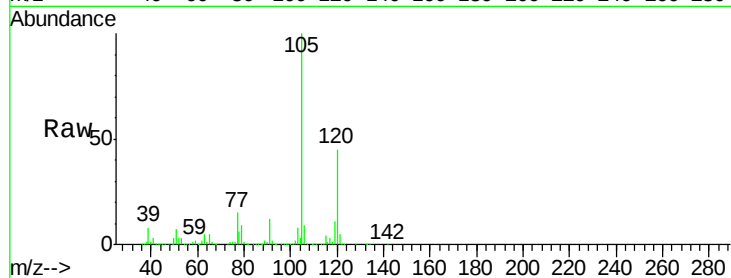
ClientSampleId :

Tot Ion:105 Resp: 3227888

Ion Ratio Lower Upper

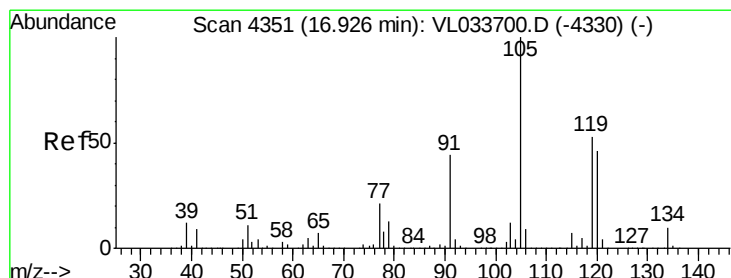
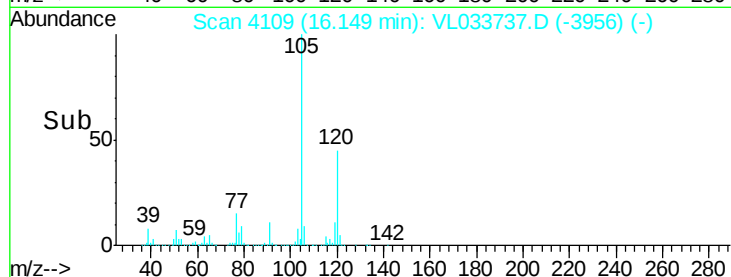
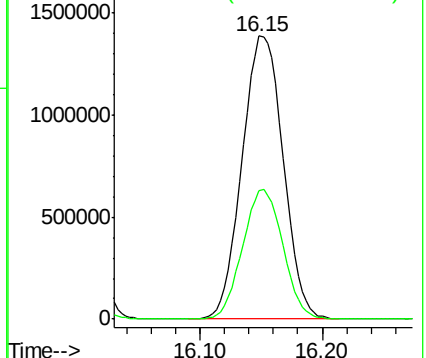
105 100

120 45.2 37.0 55.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.809 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Tgt Ion:105 Resp: 3398659

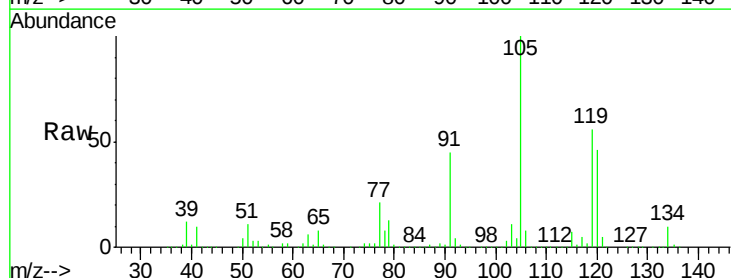
Ion Ratio Lower Upper

105 100

120 46.1 36.8 55.2

91 45.3 35.4 53.0

77 21.2 16.8 25.2

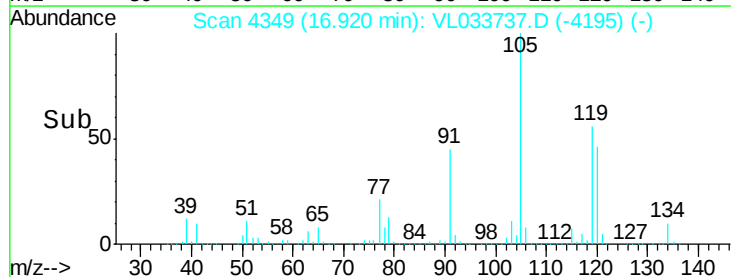
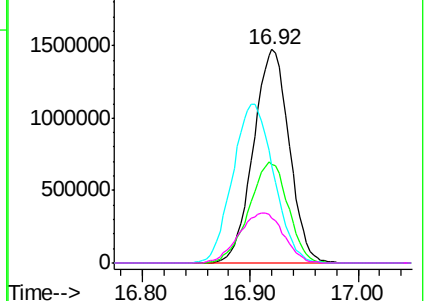


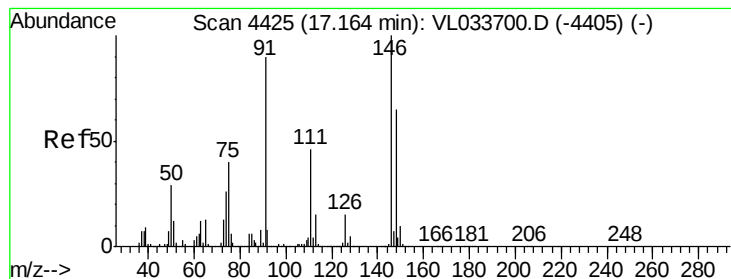
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





#75

1,3-Dichlorobenzene

Concen: 9.383 ppbv

RT: 17.16 min Scan# 4423

Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

ClientSampled :

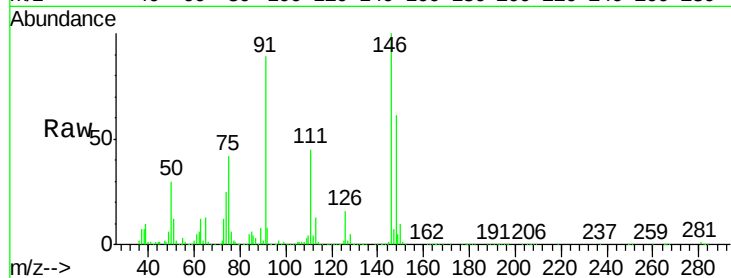
Tot Ion:146 Resp: 1992133

Ion Ratio Lower Upper

146 100

111 45.4 22.9 68.8

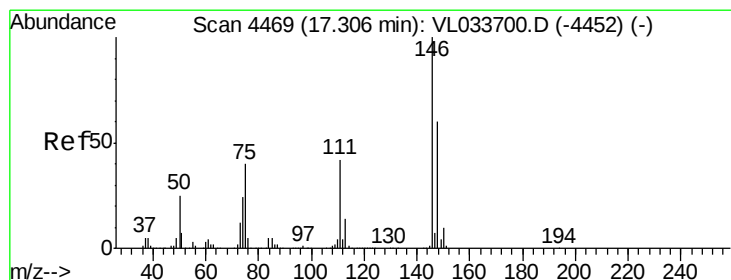
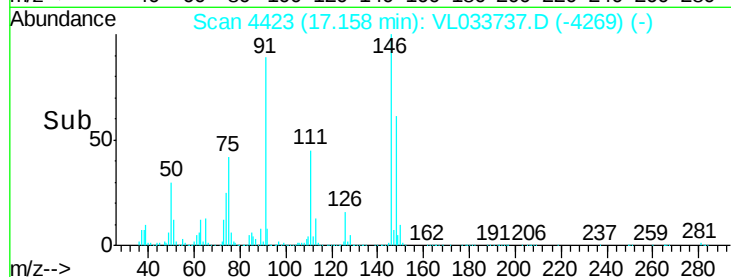
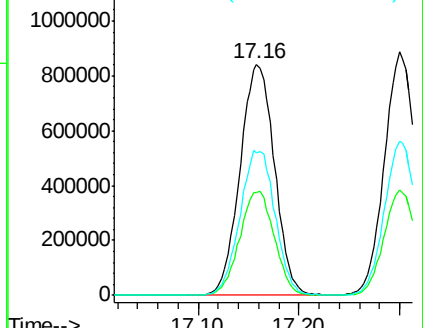
148 64.0 32.0 96.2



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: 9.738 ppbv

RT: 17.30 min Scan# 4467

Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

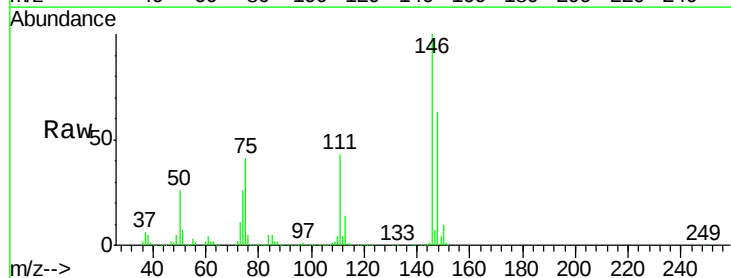
Tgt Ion:146 Resp: 1965044

Ion Ratio Lower Upper

146 100

111 44.3 21.9 65.8

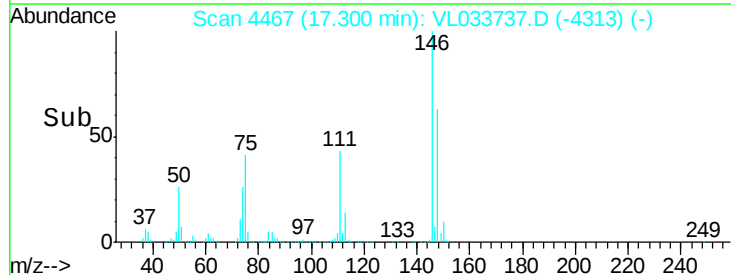
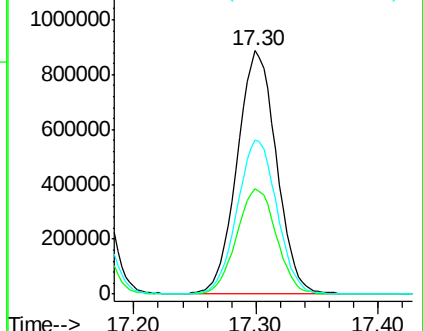
148 64.5 32.1 96.3

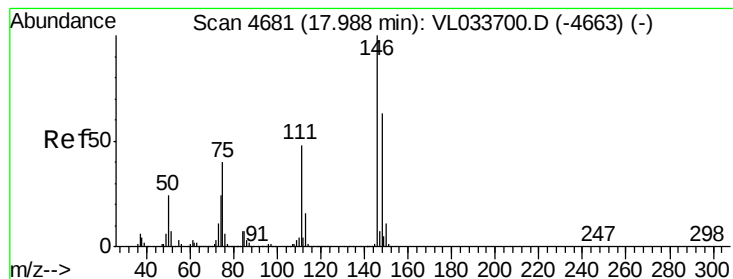


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 9.515 ppbv

RT: 17.98 min Scan# 4679

Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

ClientSampleId :

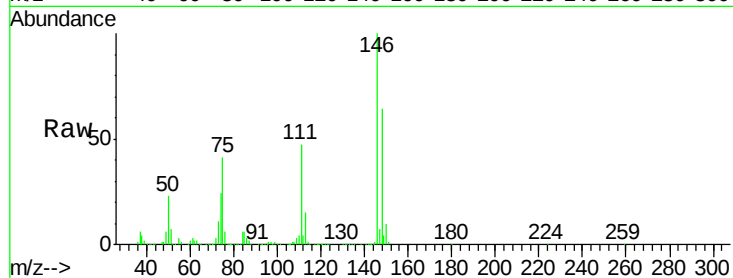
Tot Ion:146 Resp: 1898194

Ion Ratio Lower Upper

146 100

111 47.1 23.5 70.5

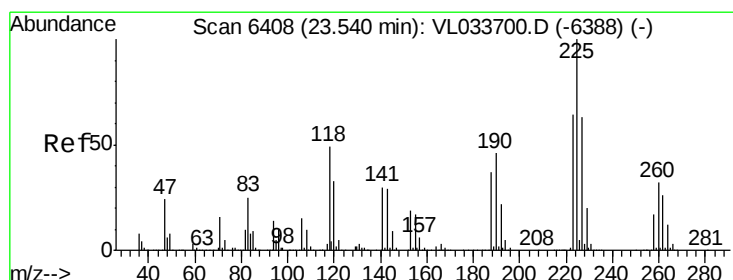
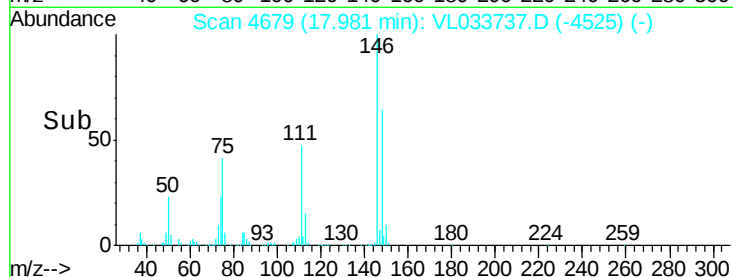
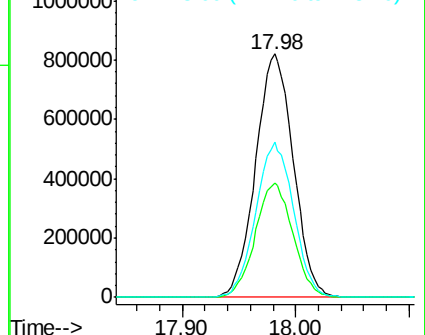
148 63.8 32.1 96.3



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: 11.526 ppbv

RT: 23.54 min Scan# 6407

Delta R.T. -0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

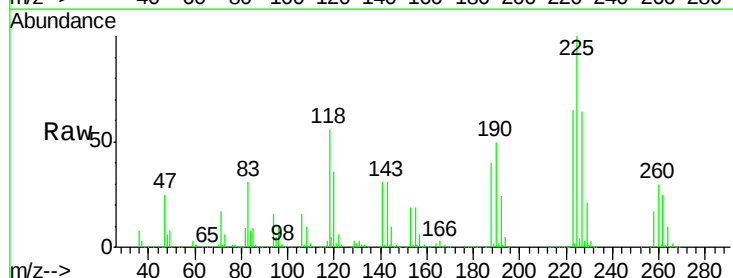
Tgt Ion:225 Resp: 1738533

Ion Ratio Lower Upper

225 100

223 63.8 50.2 75.4

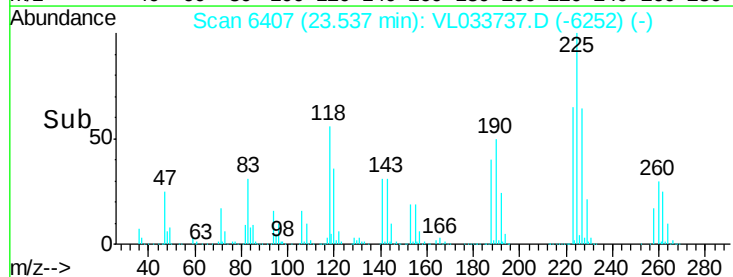
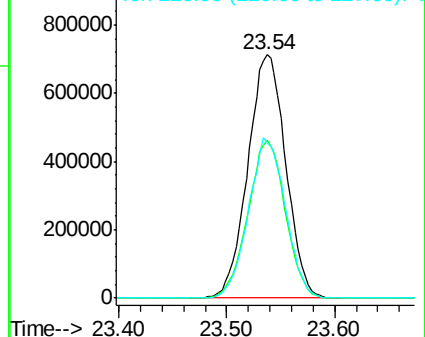
227 64.2 50.7 76.1

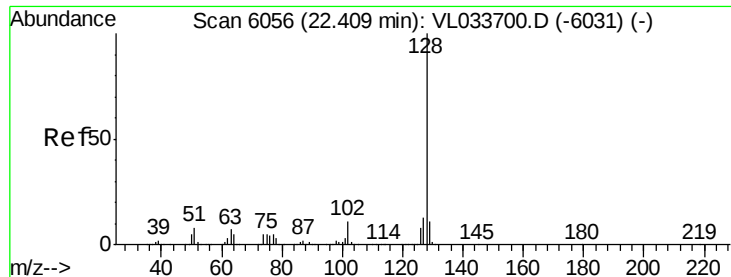


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 12.060 ppbv

RT: 22.41 min Scan# 6055

Delta R.T. -0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

ClientSampleId :

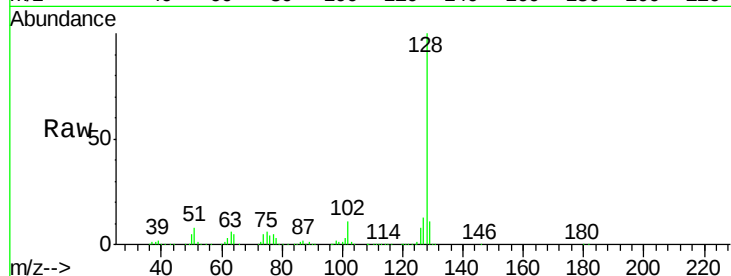
Tot Ion:128 Resp: 3881093

Ion Ratio Lower Upper

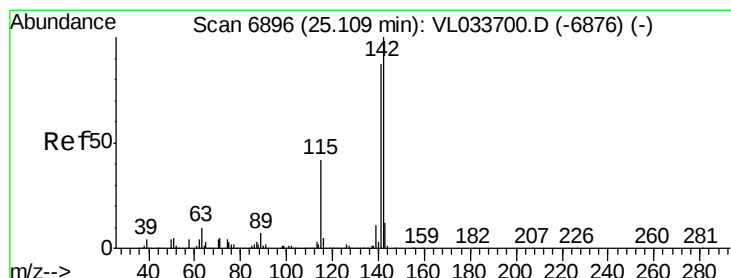
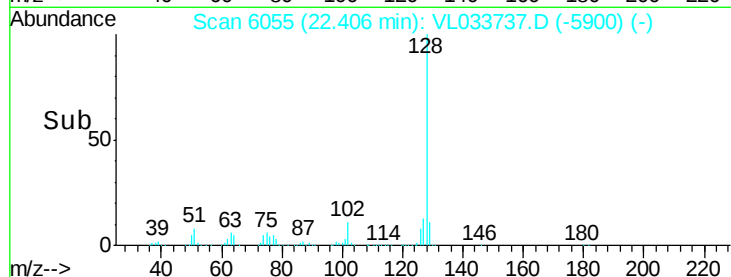
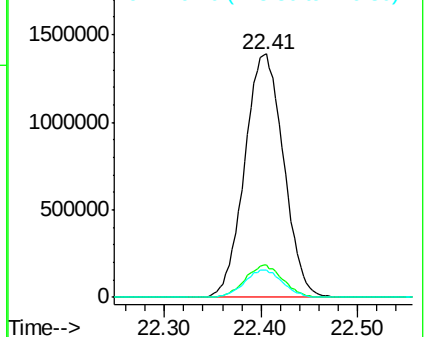
128 100

127 13.2 10.6 16.0

129 11.0 8.9 13.3



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: 15.529 ppbv

RT: 25.11 min Scan# 6895

Delta R.T. -0.00 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

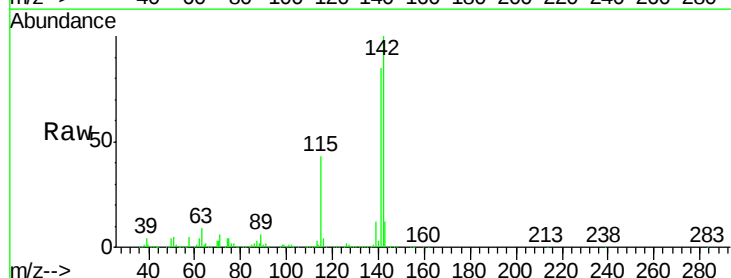
Tgt Ion:142 Resp: 1898871

Ion Ratio Lower Upper

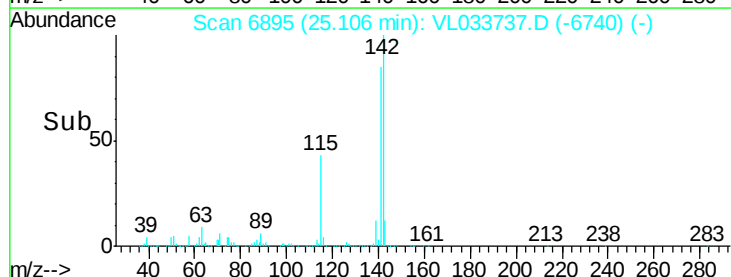
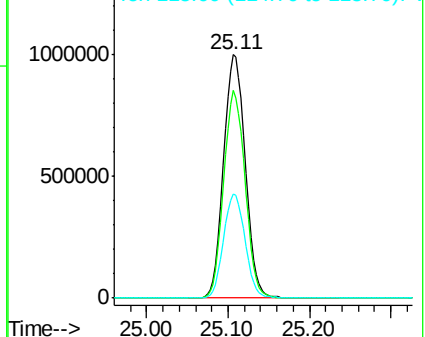
142 100

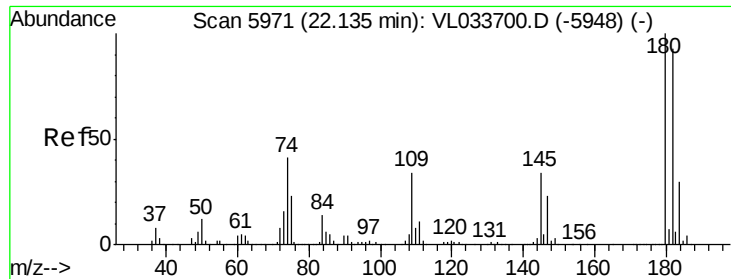
141 84.4 67.2 100.8

115 42.5 34.1 51.1



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: 10.632 ppbv

RT: 22.13 min Scan# 5968

Delta R.T. -0.01 min

Lab File: VL033737.D

Acq: 21 May 2019 8:48

Instrument :

MSVOA_L

ClientSampleId :

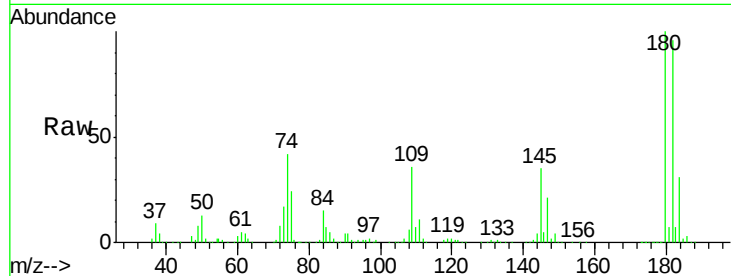
Tot Ion:180 Resp: 2003541

Ion Ratio Lower Upper

180 100

182 95.4 76.1 114.1

184 31.1 24.6 37.0



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

