

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL041918\
 Data File : VL031882.D
 Acq On : 19 Apr 2018 17:53
 Operator : SY/AP
 Sample : VL0419ABS01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0419ABS01

Quant Time: Apr 20 07:59:29 2018
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 16:50:02 2018
 QLast Update : Fri Apr 13 16:50:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1229561	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2899560	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	3575600	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.73	95	2373804	8.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	82.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.16	85	1906748	7.52	ppbv	99
3) Chlorodifluoromethane	3.10	51	1069017	7.48	ppbv	99
4) Chloromethane	3.26	50	644937	8.83	ppbv	97
5) Vinyl Chloride	3.38	62	697847	8.49	ppbv	96
6) Bromomethane	3.61	94	472027	8.74	ppbv	98
7) Chloroethane	3.70	64	284072	8.67	ppbv	90
8) Dichlorotetrafluoroethane	3.31	85	1790378	8.60	ppbv	99
9) Propene	3.12	41	462175	9.35	ppbv	97
10) Heptane	8.39	43	1638716	10.21	ppbv	99
11) Trichlorofluoromethane	4.11	101	2134084	8.58	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.67	101	1333795	8.25	ppbv	99
13) Ethanol	3.75	45	72505	4.32	ppbv #	51
14) Bromoethene	3.89	108	558353	9.16	ppbv	99
15) Acetone	4.01	43	1404069	7.42	ppbv	99
16) 1,3-Butadiene	3.46	39	619190	8.84	ppbv	90
17) tert-Butyl alcohol	4.47	59	584211	7.47	ppbv	99
18) 1,1-Dichloroethene	4.46	96	614505	8.85	ppbv	96
19) Isopropyl Alcohol	4.13	45	889907	8.42	ppbv	100
20) Methylene Chloride	4.52	84	561105	8.14	ppbv	95
21) Allyl Chloride	4.59	41	954548	8.83	ppbv	99
22) trans-1,2-Dichloroethene	5.08	96	622130	8.65	ppbv	94
23) Vinyl Acetate	5.27	43	1751419	9.13	ppbv	99
24) 1,1-Dichloroethane	5.21	63	1646867	8.61	ppbv	98
25) Ethyl Acetate	5.90	43	2650442	8.98	ppbv	100
26) Hexane	5.90	57	1254590	9.12	ppbv	99
27) Carbon Disulfide	4.74	76	1631666	9.13	ppbv	99
28) Methyl tert-Butyl Ether	5.23	73	1566516	9.25	ppbv	100
29) Chloroform	5.97	83	2033915	8.72	ppbv	98
30) Cyclohexane	7.39	84	982072	9.99	ppbv	99
31) cis-1,2-Dichloroethene	5.77	61	1173763	9.42	ppbv	94
32) 1,1,1-Trichloroethane	6.75	97	2024550	8.91	ppbv	99
34) 2-Butanone	5.45	43	1652534	8.22	ppbv	99
35) Carbon Tetrachloride	7.27	117	2120148	8.42	ppbv	99
36) Benzene	7.14	78	2420201	9.28	ppbv	99
37) 1,2-Dichloroethane	6.55	62	1640643	8.45	ppbv	99
38) Trichloroethene	8.11	130	970713	9.17	ppbv	100
39) 1,2-Dichloropropane	7.88	63	873223	9.01	ppbv	97
40) 1,4-Dioxane	8.10	88	359164	9.13	ppbv	84
41) Tetrahydrofuran	6.28	42	857474	9.21	ppbv	99
42) Bromodichloromethane	8.06	83	2109220	9.08	ppbv	99
43) Methyl Methacrylate	8.28	69	915163	9.97	ppbv	99

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL041918\
 Data File : VL031882.D
 Acq On : 19 Apr 2018 17:53
 Operator : SY/AP
 Sample : VL0419ABS01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0419ABS01

Quant Time: Apr 20 07:59:29 2018
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 16:50:02 2018
 QLast Update : Fri Apr 13 16:50:02 2018
 Response via : Initial Calibration

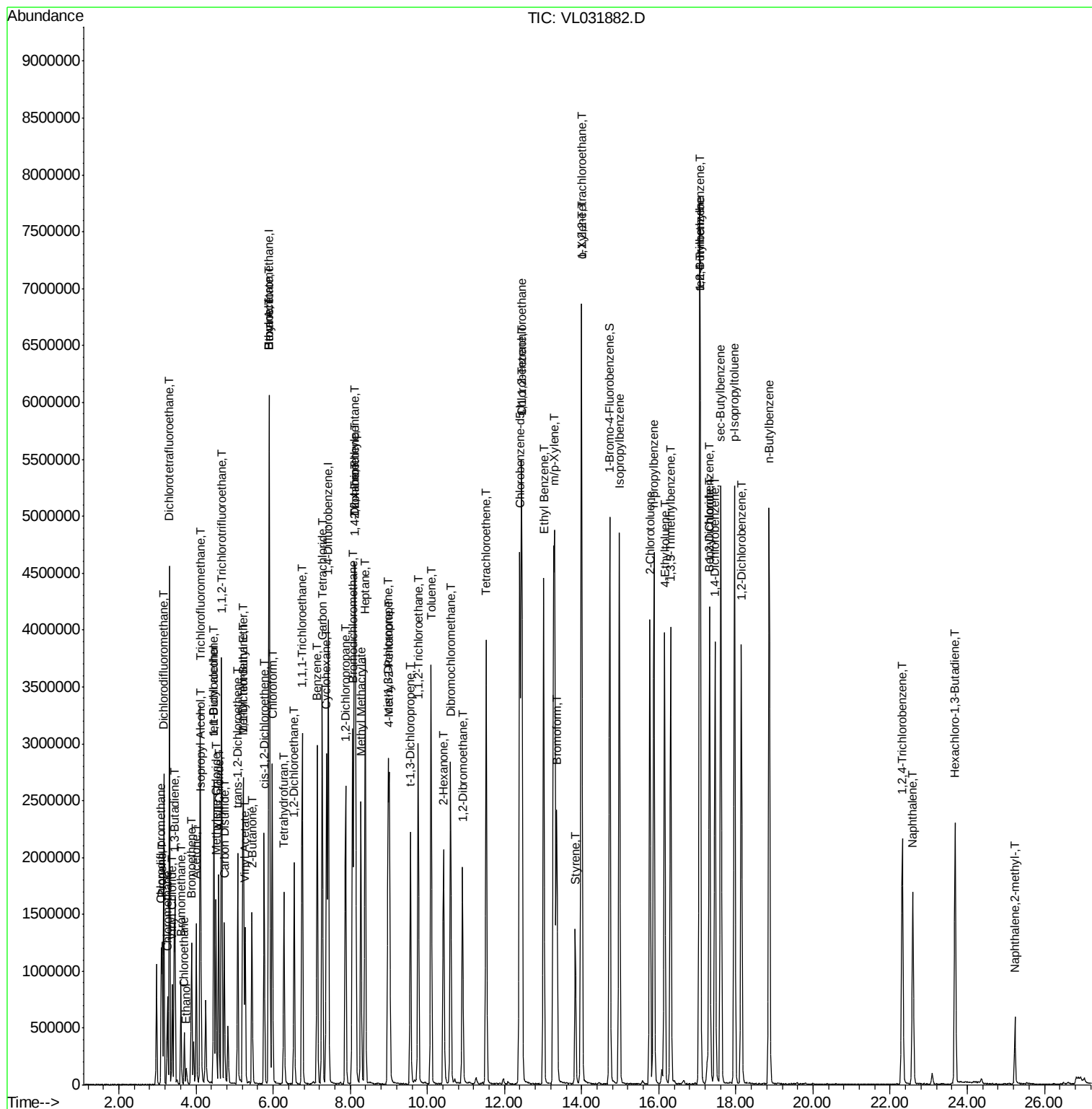
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	4173385	9.29	ppbv	99
45) t-1,3-Dichloropropene	9.56	75	1273909	10.70	ppbv	98
46) cis-1,3-Dichloropropene	8.98	75	1554868	10.22	ppbv	96
47) 1,1,2-Trichloroethane	9.76	97	1037296	9.00	ppbv	99
48) Dibromochloromethane	10.60	129	1764679	9.48	ppbv	100
49) Bromoform	13.36	173	1395250	9.73	ppbv	99
50) 4-Methyl-2-Pentanone	9.01	43	2122618	9.22	ppbv	100
51) 2-Hexanone	10.42	43	1900560	9.44	ppbv #	99
52) Tetrachloroethene	11.52	164	927148	9.12	ppbv	96
53) Toluene	10.10	91	2884920	9.92	ppbv	100
54) 1,2-Dibromoethane	10.91	107	1550957	9.27	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.43	131	1224833	7.28	ppbv	99
57) Chlorobenzene	12.45	112	2210254	7.29	ppbv	98
58) Ethyl Benzene	13.02	91	4046819	8.15	ppbv	99
59) m/p-Xylene	13.30	91	3424535	7.94	ppbv #	36
60) o-Xylene	14.00	91	3421335	7.94	ppbv	100
61) Styrene	13.84	104	744009	9.07	ppbv	100
62) Isopropylbenzene	14.98	105	4259841	7.70	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.99	83	2251679	6.80	ppbv	99
64) n-propylbenzene	15.87	120	1057883	7.86	ppbv	99
65) tert-Butylbenzene	17.06	119	3678803	7.73	ppbv	99
66) Benzyl Chloride	17.30	91	419261	9.77	ppbv	97
67) sec-Butylbenzene	17.61	105	5262843	7.67	ppbv	100
69) p-Isopropyltoluene	17.97	119	4147411	7.80	ppbv	100
70) n-Butylbenzene	18.86	91	4224779	7.63	ppbv	100
71) 2-Chlorotoluene	15.77	91	3190151	7.97	ppbv	100
72) 4-Ethyltoluene	16.15	105	3442986	7.82	ppbv	100
73) 1,3,5-Trimethylbenzene	16.31	105	3116045	7.73	ppbv	98
74) 1,2,4-Trimethylbenzene	17.08	105	3311868	7.36	ppbv	99
75) 1,3-Dichlorobenzene	17.32	146	1989399	7.21	ppbv	99
76) 1,4-Dichlorobenzene	17.46	146	1992509	7.44	ppbv	100
77) 1,2-Dichlorobenzene	18.14	146	1985258	7.30	ppbv	100
78) Hexachloro-1,3-Butadiene	23.68	225	627519	6.01	ppbv	100
79) Naphthalene	22.59	128	2022501	7.98	ppbv	98
80) Naphthalene,2-methyl-	25.23	142	279908	5.66	ppbv	99
81) 1,2,4-Trichlorobenzene	22.31	180	1020869	7.26	ppbv	99

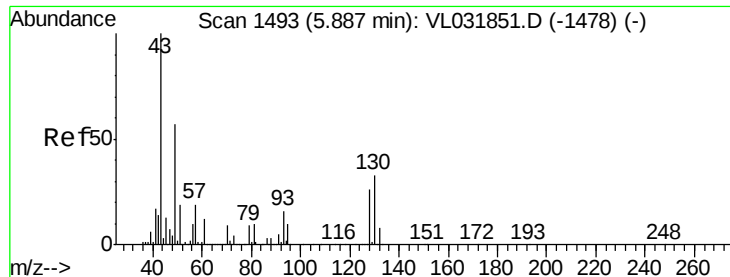
(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL041918\  
Data File : VL031882.D  
Acq On    : 19 Apr 2018  17:53  
Operator  : SY/AP  
Sample    : VL0419ABS01  
Misc      : 400ml/MSVOA_L  
ALS Vial  : 1      Sample Multiplier: 1
```

Instrument :
MSVOA_L
ClientSampleId :
VL0419ABS01

Quant Time: Apr 20 07:59:29 2018
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL041218AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Apr 13 16:50:02 2018
QLast Update : Fri Apr 13 16:50:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.89 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

VL0419ABS01

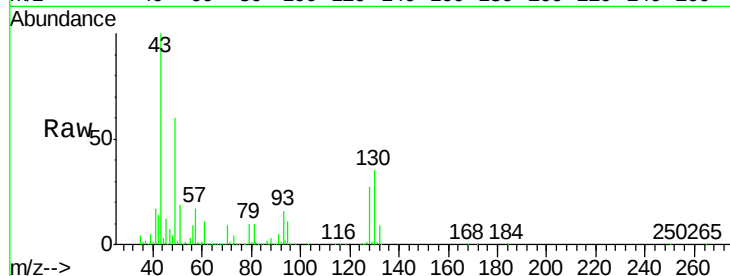
Tgt Ion: 49 Resp: 1229561

Ion Ratio Lower Upper

49 100

128 48.4 23.9 71.7

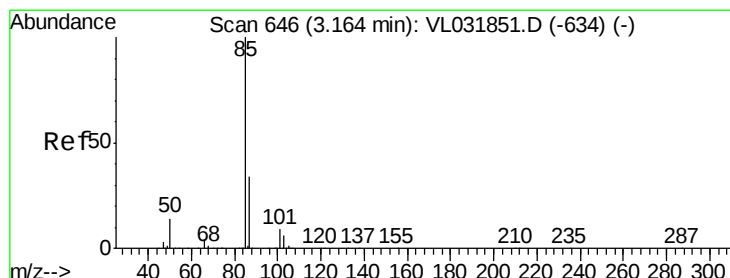
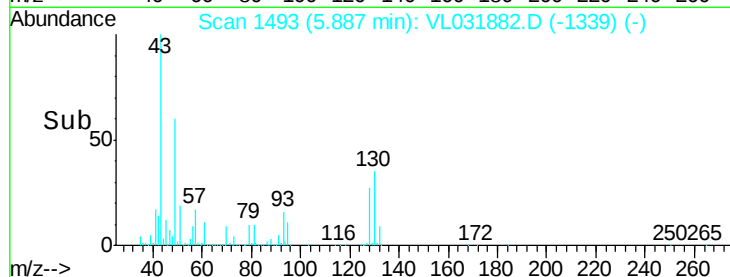
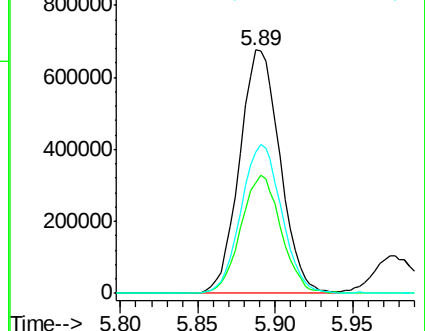
130 61.9 30.9 92.7



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: 7.52 ppbv

RT: 3.16 min Scan# 646

Delta R.T. -0.00 min

Lab File: VL031882.D

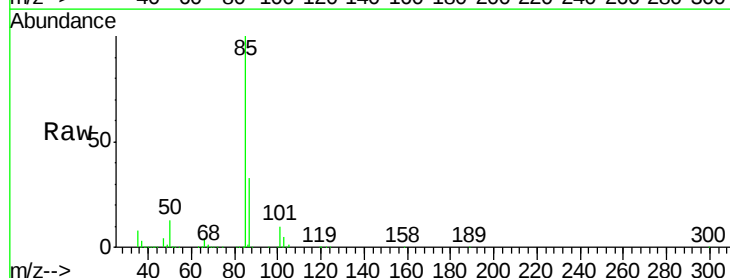
Acq: 19 Apr 2018 17:53

Tgt Ion: 85 Resp: 1906748

Ion Ratio Lower Upper

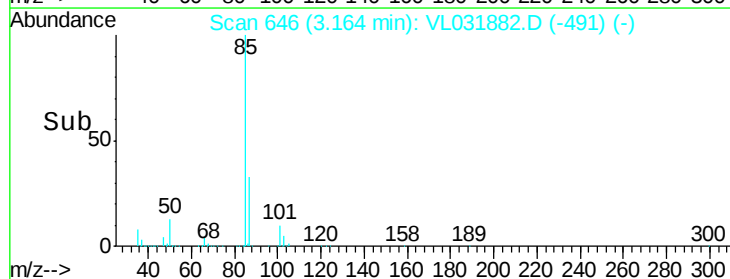
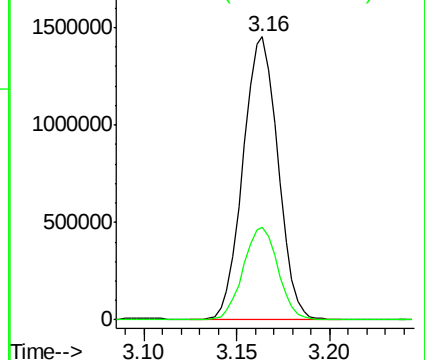
85 100

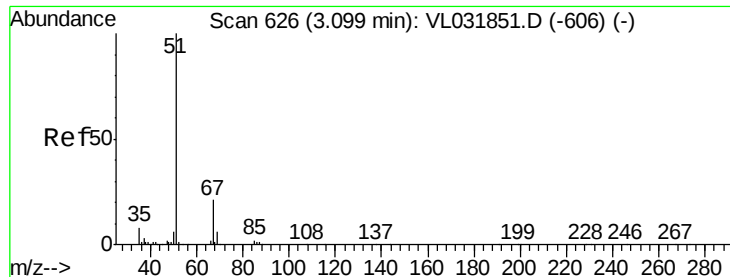
87 32.7 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 7.48 ppbv

RT: 3.10 min Scan# 626

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

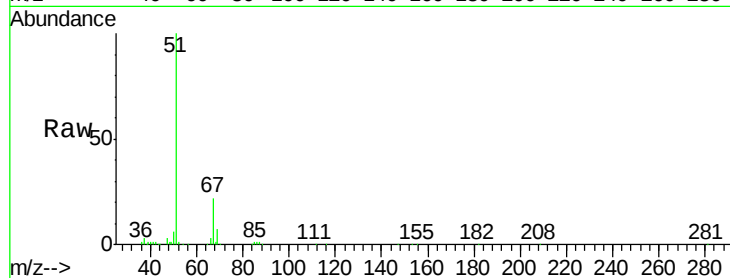
VL0419ABS01

Tgt Ion: 51 Resp: 1069017

Ion Ratio Lower Upper

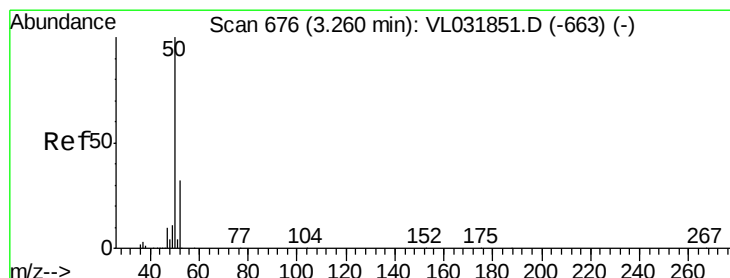
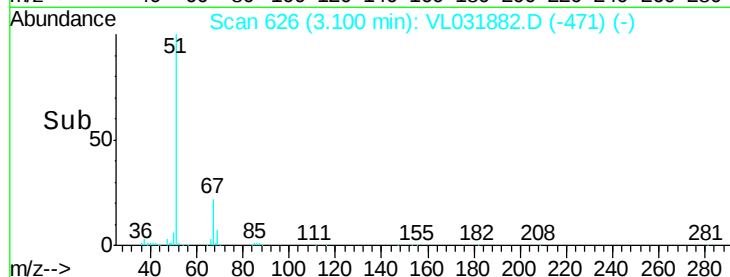
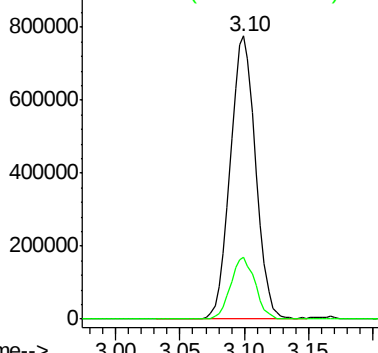
51 100

67 21.3 17.5 26.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.83 ppbv

RT: 3.26 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL031882.D

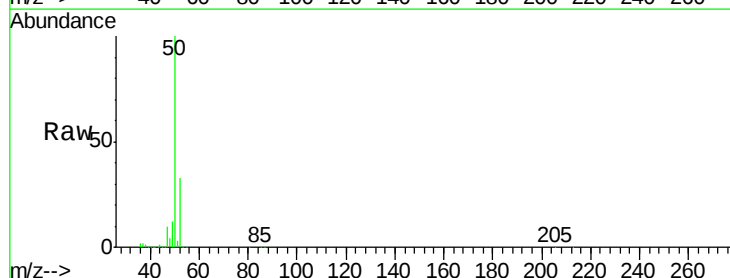
Acq: 19 Apr 2018 17:53

Tgt Ion: 50 Resp: 644937

Ion Ratio Lower Upper

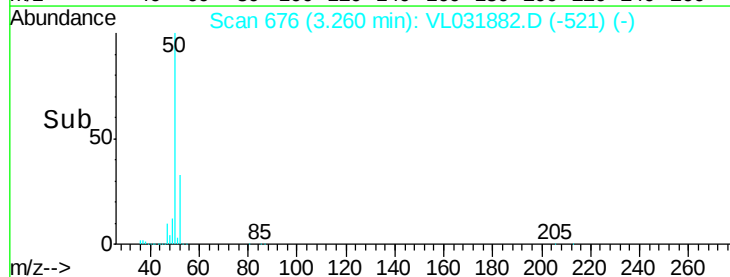
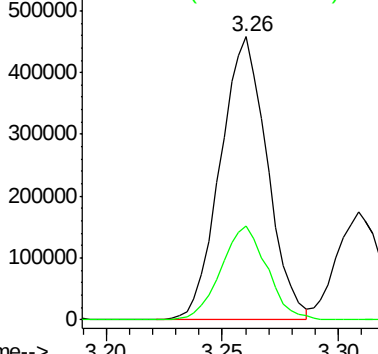
50 100

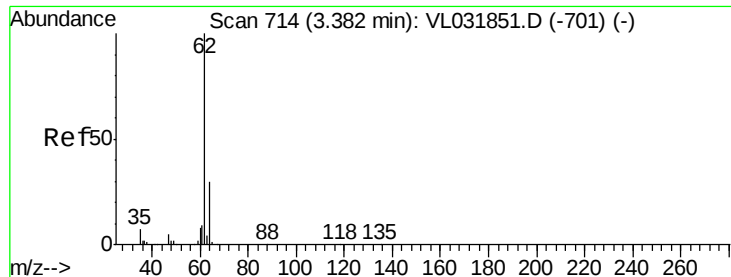
52 33.3 28.1 42.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.49 ppbv

RT: 3.38 min Scan# 714

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

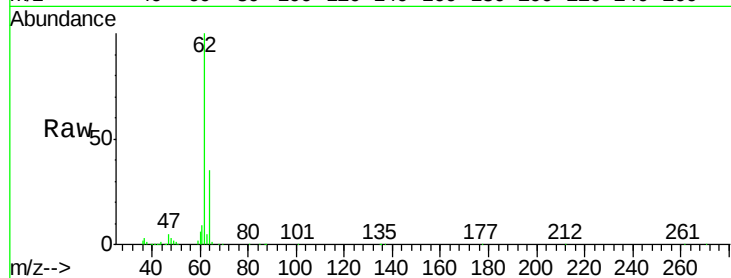
VL0419ABS01

Tgt Ion: 62 Resp: 697847

Ion Ratio Lower Upper

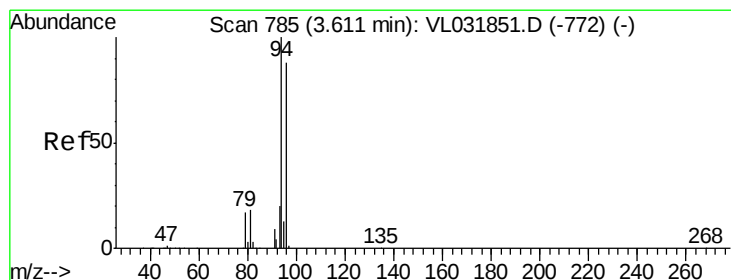
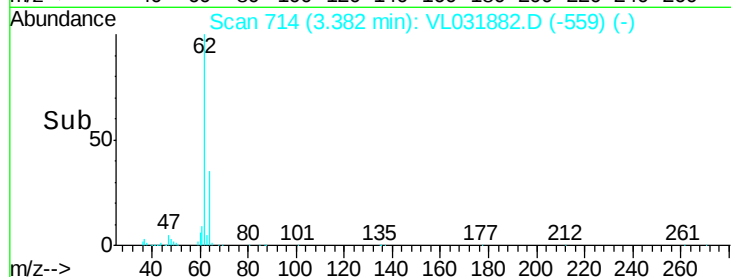
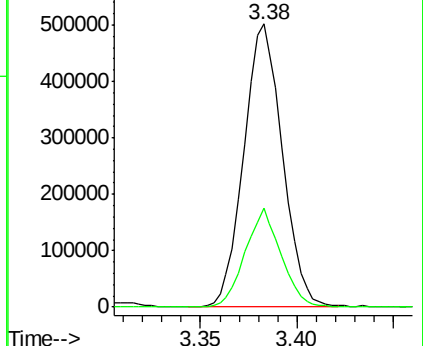
62 100

64 34.8 25.9 38.9



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.74 ppbv

RT: 3.61 min Scan# 785

Delta R.T. -0.00 min

Lab File: VL031882.D

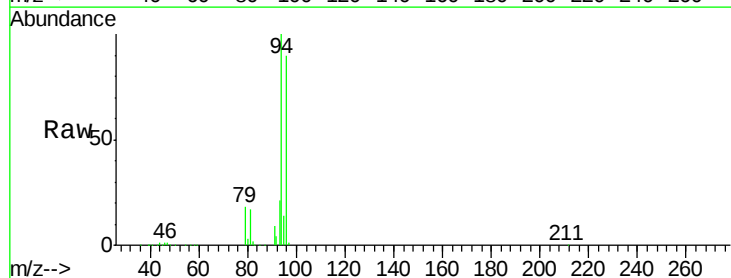
Acq: 19 Apr 2018 17:53

Tgt Ion: 94 Resp: 472027

Ion Ratio Lower Upper

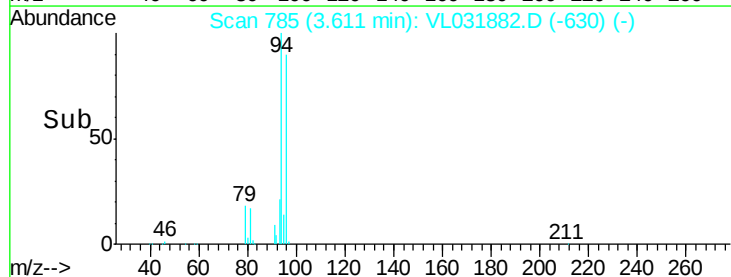
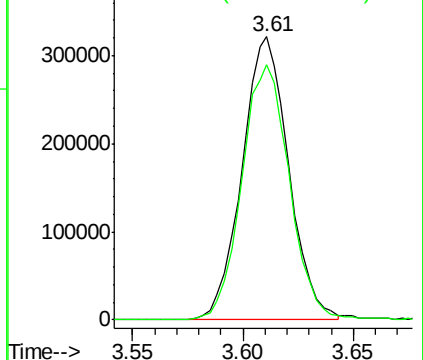
94 100

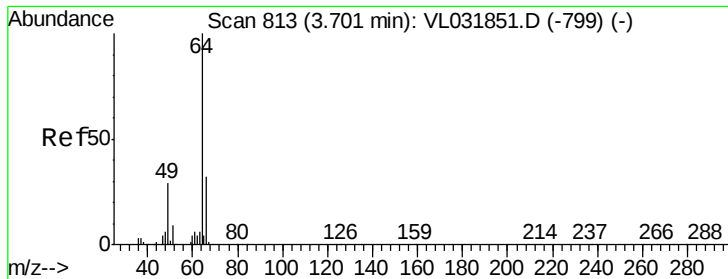
96 90.0 73.8 110.6



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.67 ppbv

RT: 3.70 min Scan# 812

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

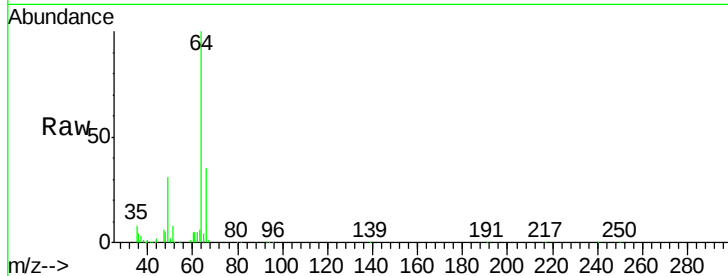
VL0419ABS01

Tgt Ion: 64 Resp: 284072

Ion Ratio Lower Upper

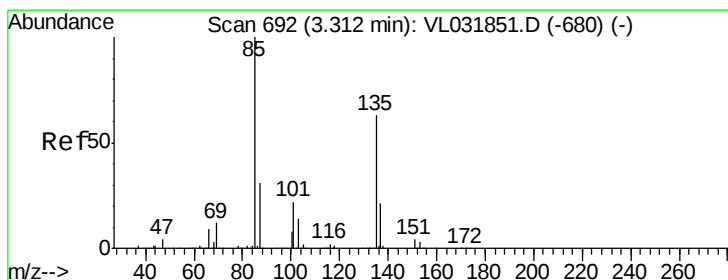
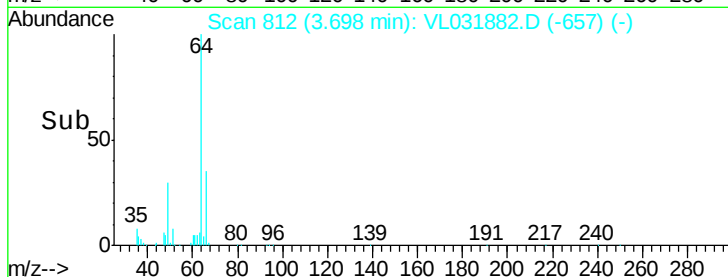
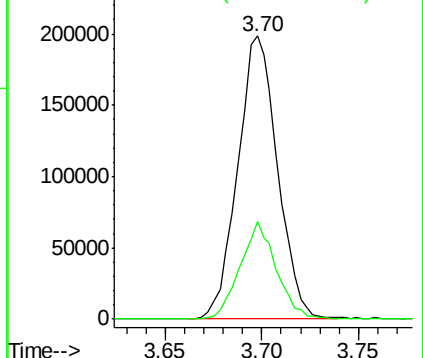
64 100

66 34.7 23.4 35.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.60 ppbv

RT: 3.31 min Scan# 691

Delta R.T. -0.00 min

Lab File: VL031882.D

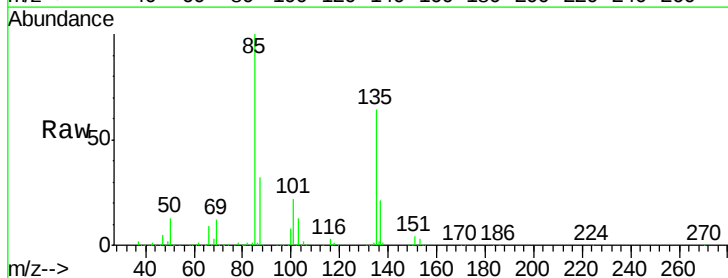
Acq: 19 Apr 2018 17:53

Tgt Ion: 85 Resp: 1790378

Ion Ratio Lower Upper

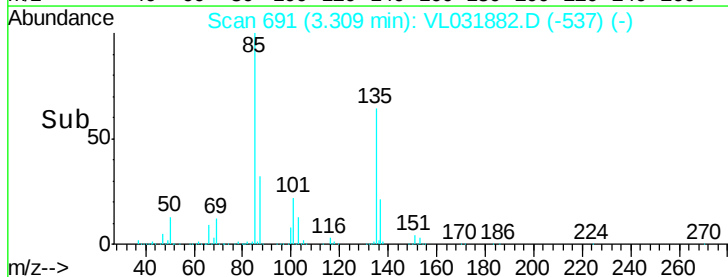
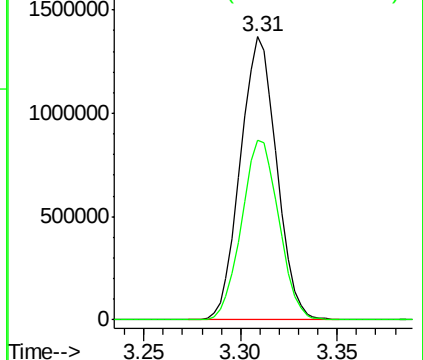
85 100

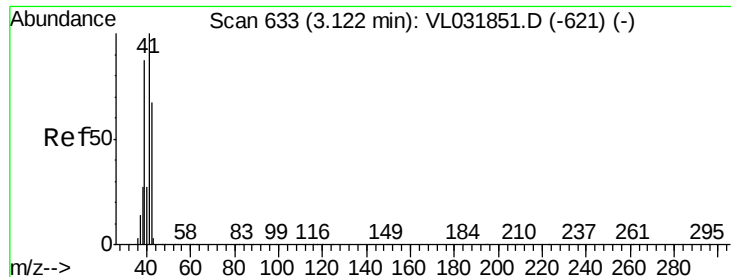
135 65.3 52.7 79.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.35 ppbv

RT: 3.12 min Scan# 633

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

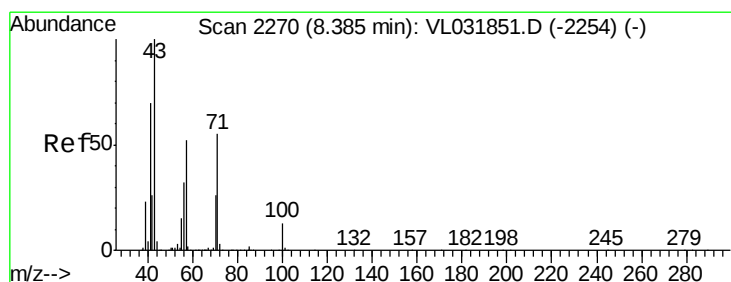
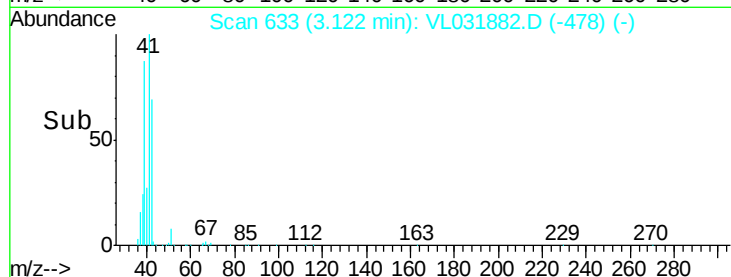
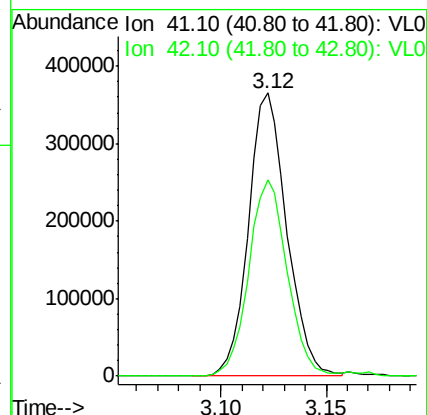
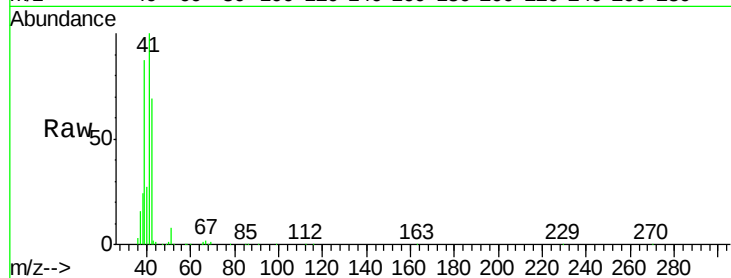
VL0419ABS01

Tgt Ion: 41 Resp: 462175

Ion Ratio Lower Upper

41 100

42 70.9 55.0 82.4



#10

Heptane

Concen: 10.21 ppbv

RT: 8.39 min Scan# 2270

Delta R.T. -0.00 min

Lab File: VL031882.D

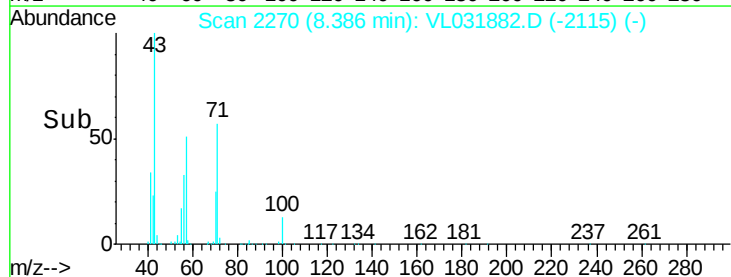
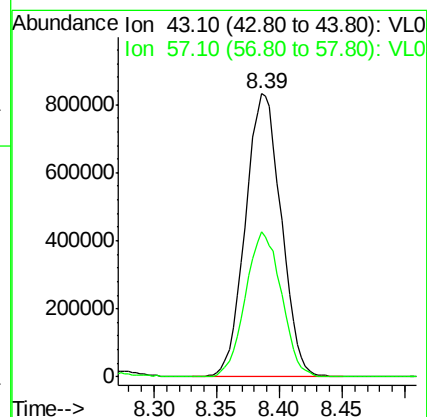
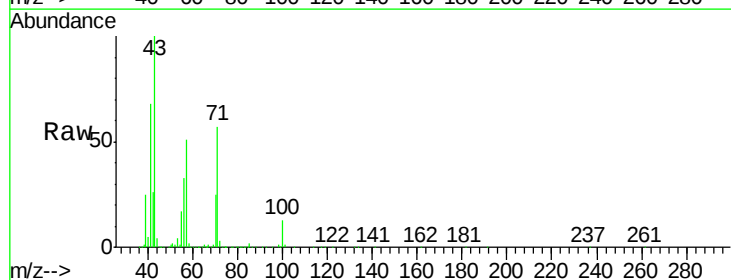
Acq: 19 Apr 2018 17:53

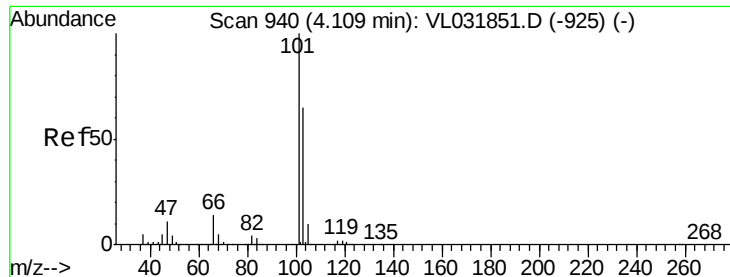
Tgt Ion: 43 Resp: 1638716

Ion Ratio Lower Upper

43 100

57 51.5 41.5 62.3





#11

Trichlorofluoromethane

Concen: 8.58 ppbv

RT: 4.11 min Scan# 940

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

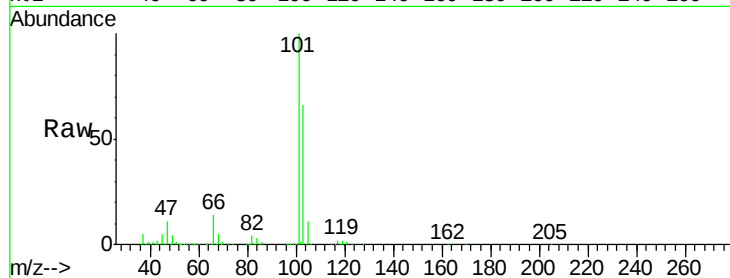
VL0419ABS01

Tgt Ion:101 Resp: 2134084

Ion Ratio Lower Upper

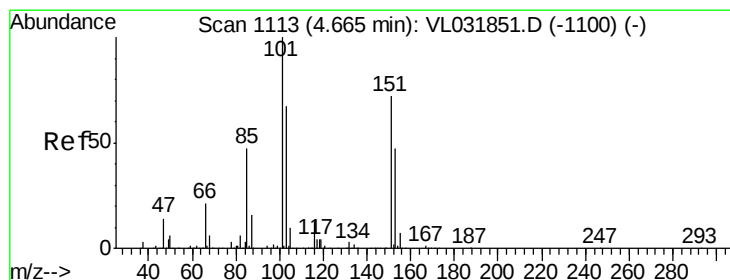
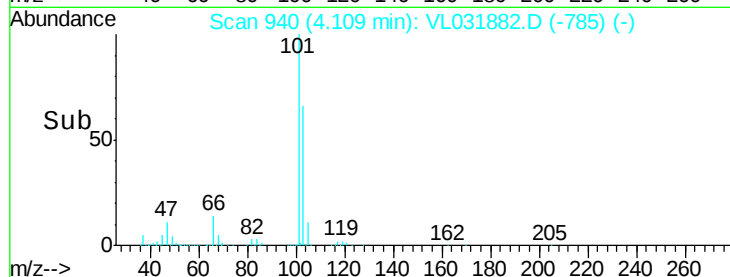
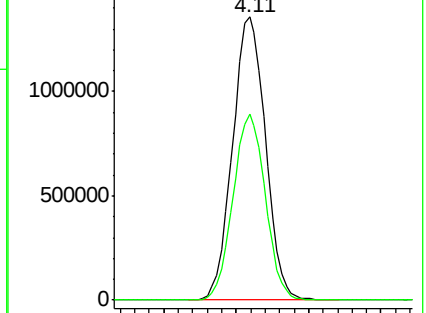
101 100

103 65.6 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.25 ppbv

RT: 4.67 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VL031882.D

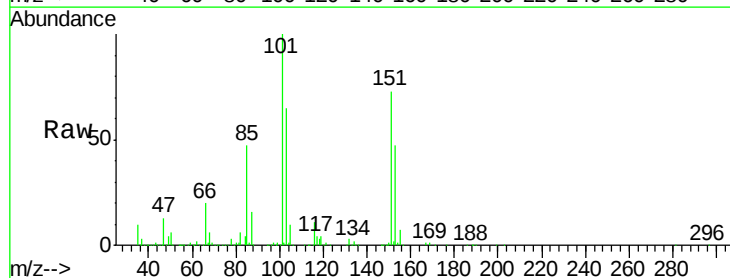
Acq: 19 Apr 2018 17:53

Tgt Ion:101 Resp: 1333795

Ion Ratio Lower Upper

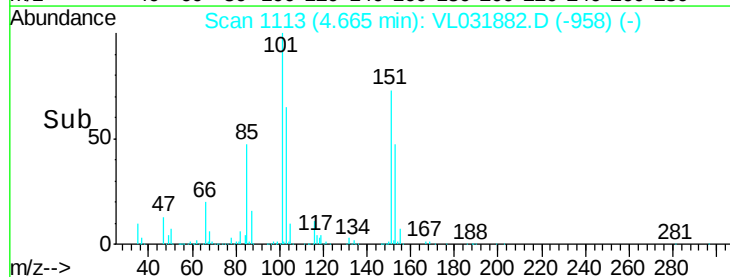
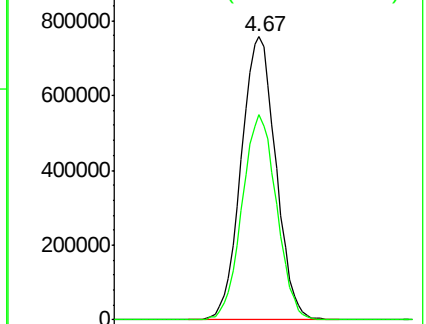
101 100

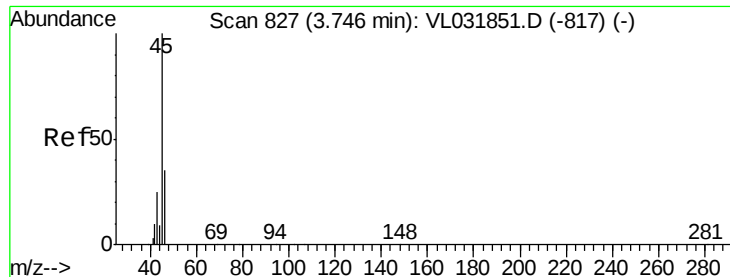
151 72.4 57.0 85.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

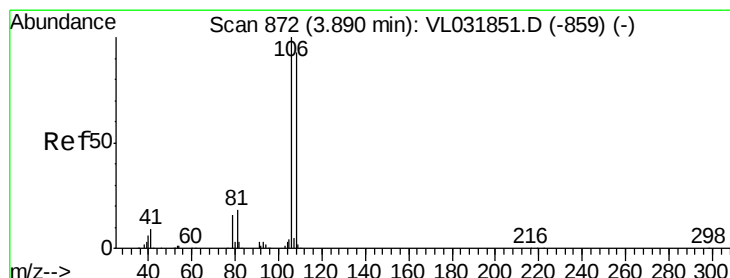
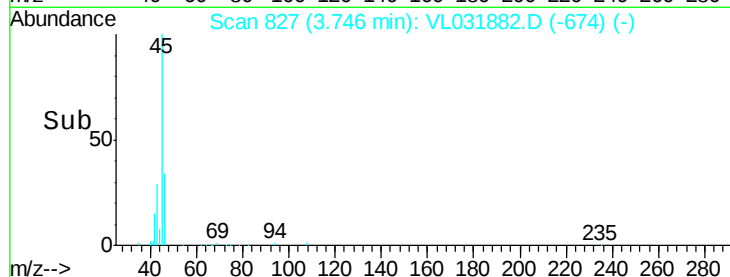
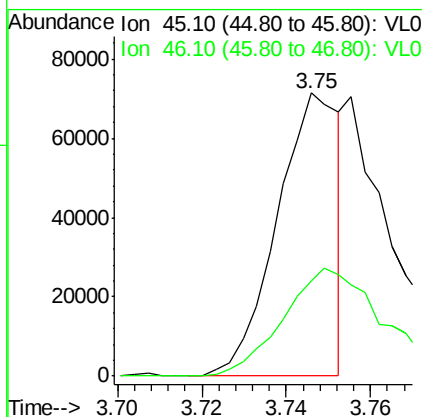
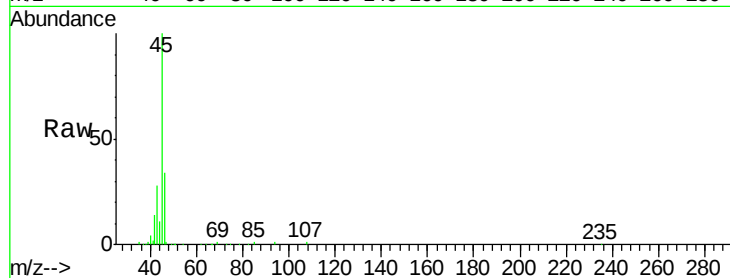




#13
Ethanol
Concen: 4.32 ppbv
RT: 3.75 min Scan# 827
Delta R.T. -0.01 min
Lab File: VL031882.D
Acq: 19 Apr 2018 17:53

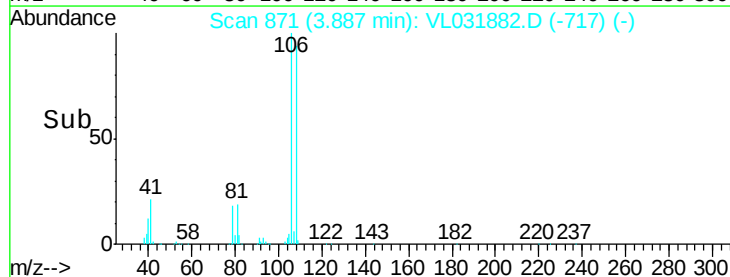
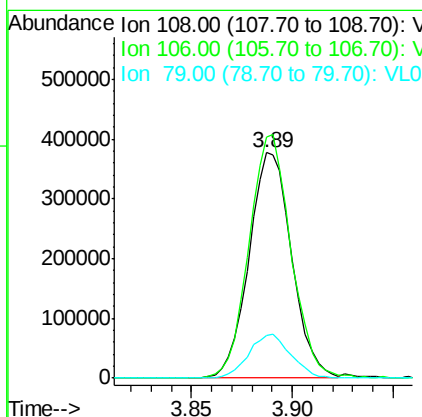
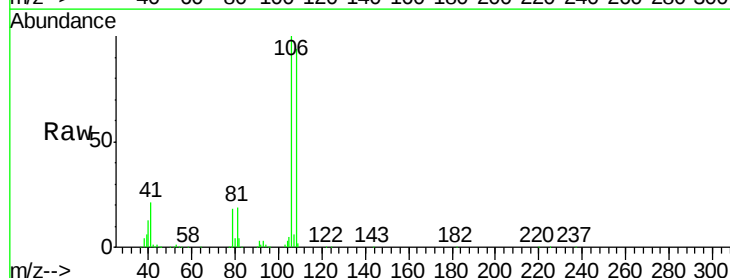
Instrument :
MSVOA_L
ClientSampleId :
VL0419ABS01

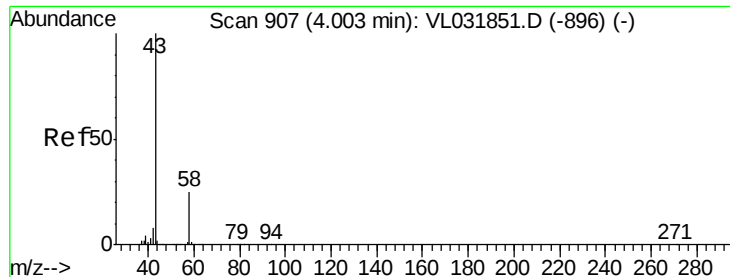
Tgt Ion: 45 Resp: 72505
Ion Ratio Lower Upper
45 100
46 65.4 14.6 58.6#



#14
Bromoethene
Concen: 9.16 ppbv
RT: 3.89 min Scan# 871
Delta R.T. -0.00 min
Lab File: VL031882.D
Acq: 19 Apr 2018 17:53

Tgt Ion: 108 Resp: 558353
Ion Ratio Lower Upper
108 100
106 107.0 86.6 130.0
79 19.5 15.5 23.3





#15

Acetone

Concen: 7.42 ppbv

RT: 4.01 min Scan# 908

Delta R.T. 0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

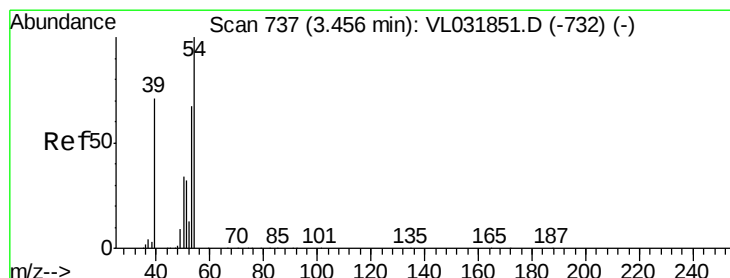
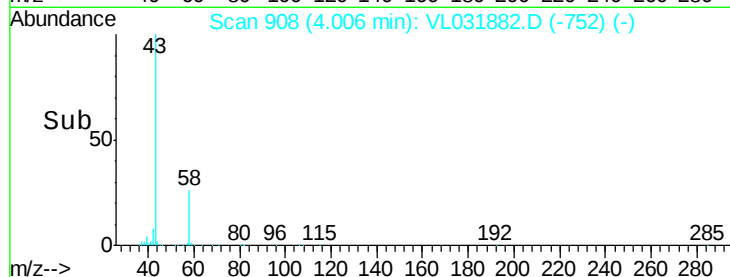
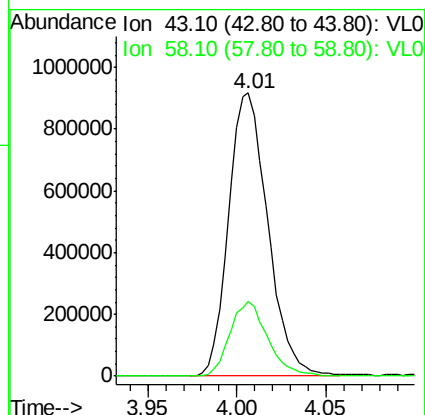
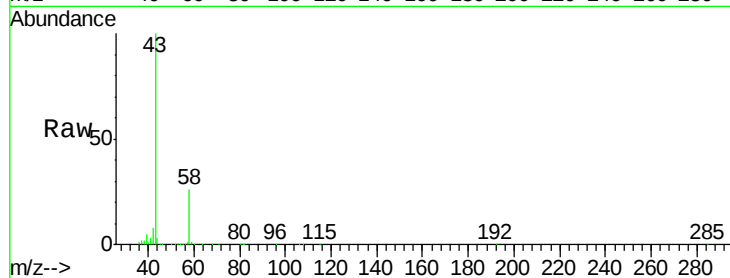
VL0419ABS01

Tgt Ion: 43 Resp: 1404069

Ion Ratio Lower Upper

43 100

58 25.6 20.9 31.3



#16

1,3-Butadiene

Concen: 8.84 ppbv

RT: 3.46 min Scan# 737

Delta R.T. -0.00 min

Lab File: VL031882.D

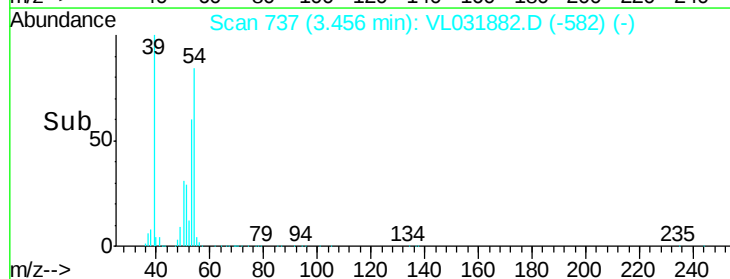
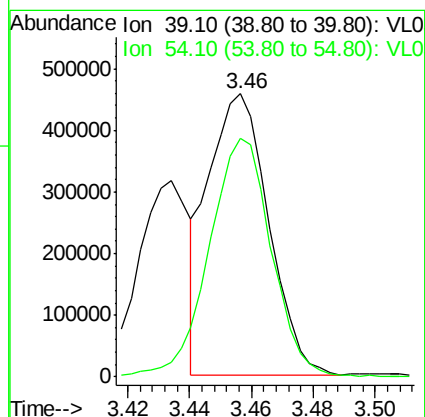
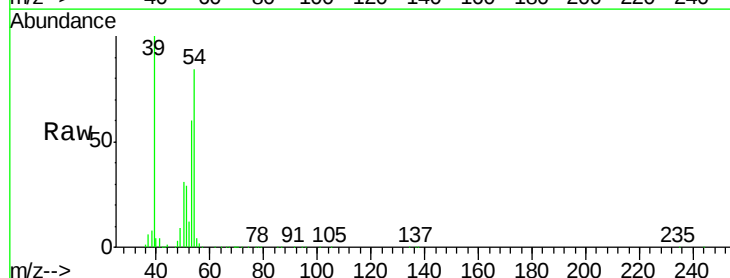
Acq: 19 Apr 2018 17:53

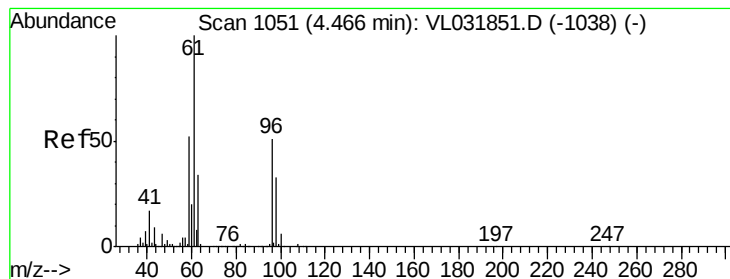
Tgt Ion: 39 Resp: 619190

Ion Ratio Lower Upper

39 100

54 88.1 63.3 94.9





#17

tert-Butyl alcohol

Concen: 7.47 ppbv

RT: 4.47 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

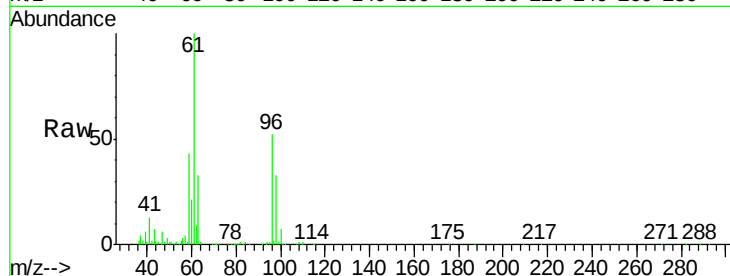
VL0419ABS01

Tgt Ion: 59 Resp: 584211

Ion Ratio Lower Upper

59 100

57 10.3 8.5 12.7



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.47

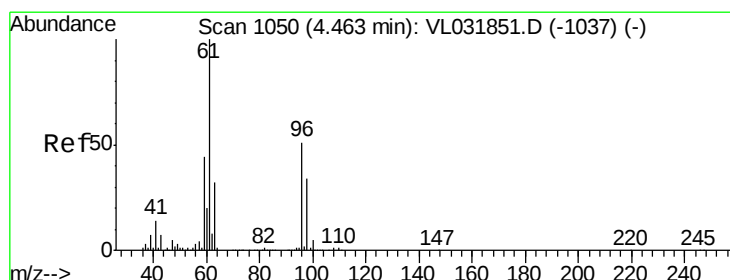
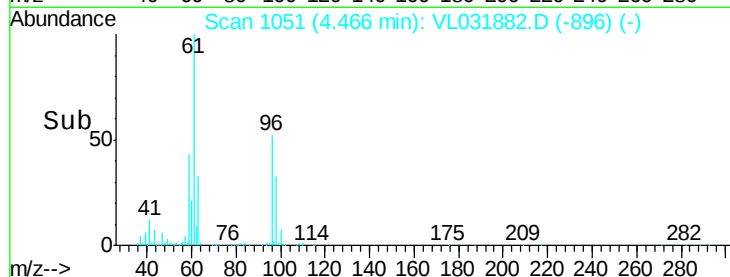
300000

200000

100000

0

Time-->



#18

1,1-Dichloroethene

Concen: 8.85 ppbv

RT: 4.46 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

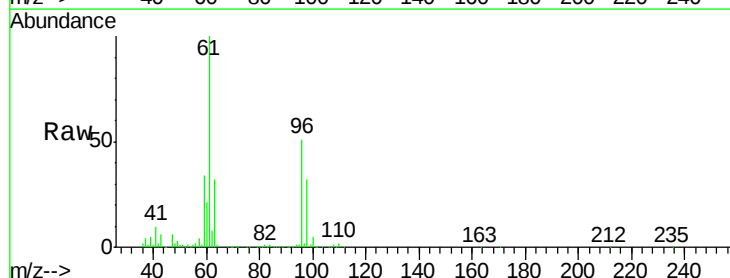
Tgt Ion: 96 Resp: 614505

Ion Ratio Lower Upper

96 100

61 194.9 161.0 241.6

98 62.5 52.7 79.1



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

4.46

1000000

800000

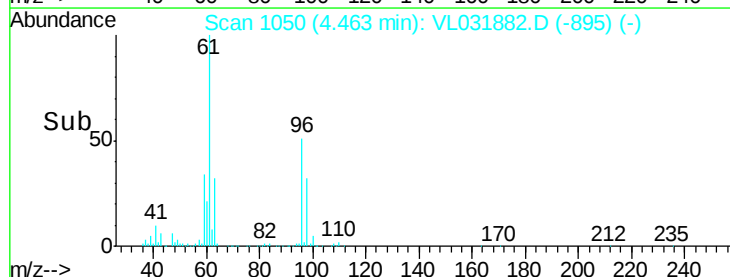
600000

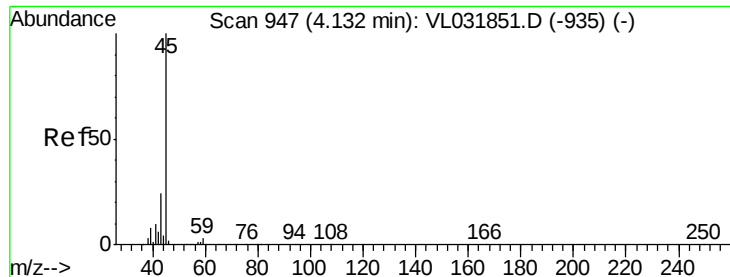
400000

200000

0

Time-->





#19

Isopropyl Alcohol

Concen: 8.42 ppbv

RT: 4.13 min Scan# 947

Delta R.T. 0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

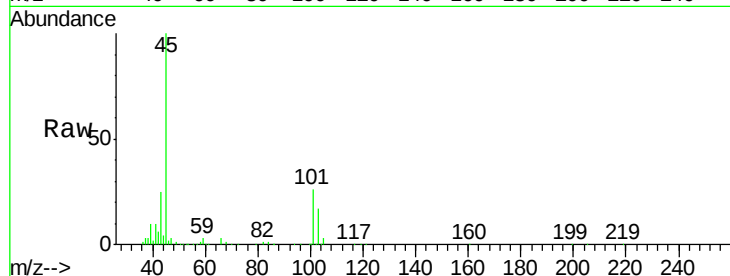
VL0419ABS01

Tgt Ion: 45 Resp: 889907

Ion Ratio Lower Upper

45 100

58 2.0 1.7 2.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.13

500000

400000

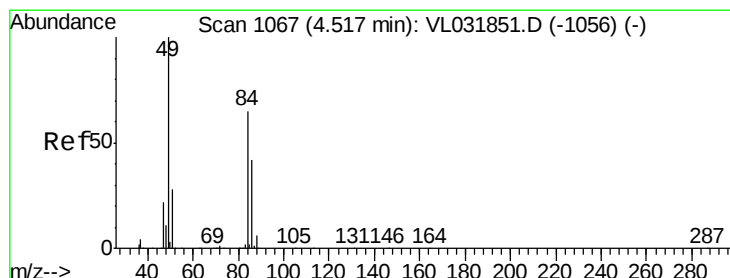
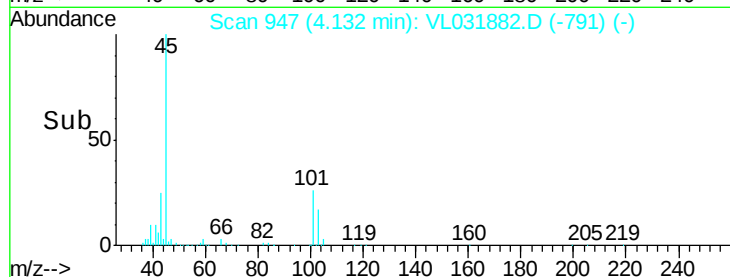
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.14 ppbv

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Tgt Ion: 84 Resp: 561105

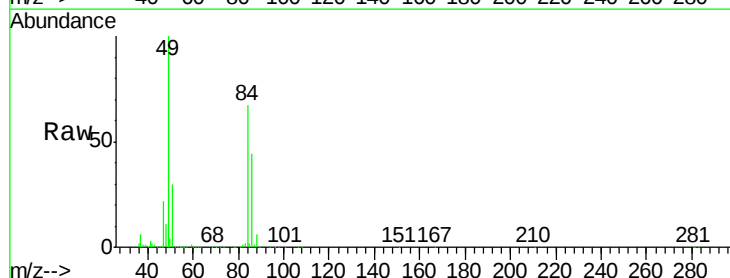
Ion Ratio Lower Upper

84 100

49 148.3 125.6 188.4

51 44.5 36.4 54.6

86 65.5 53.7 80.5



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

800000

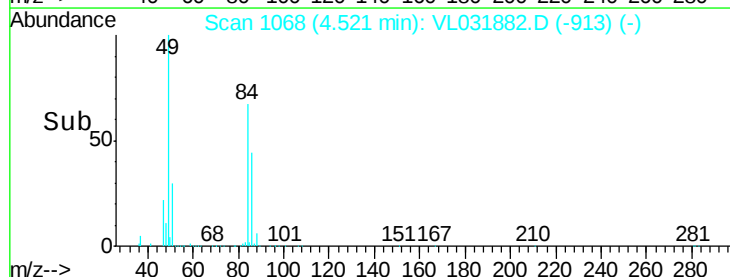
600000

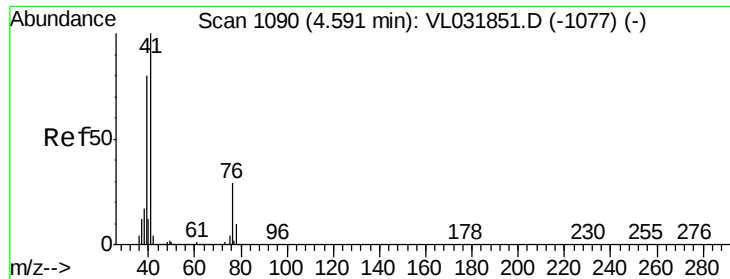
400000

200000

0

Time-->

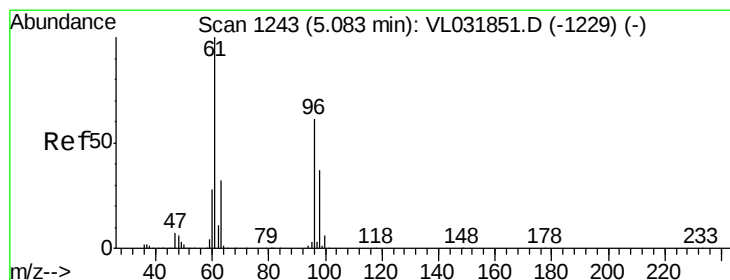
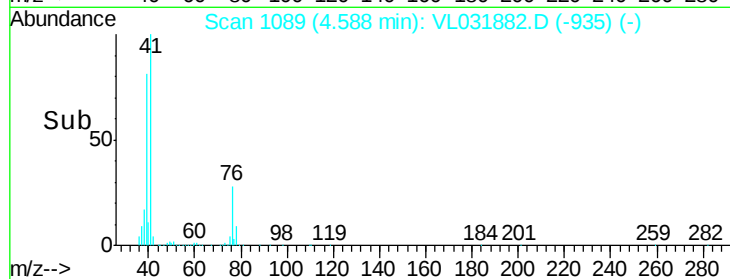
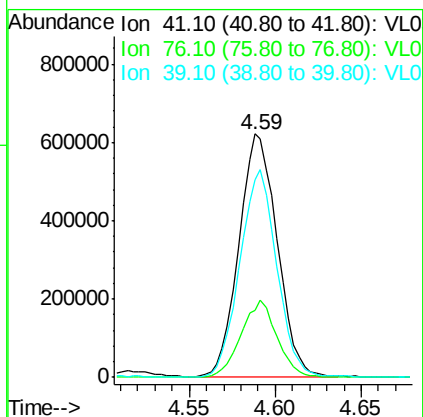
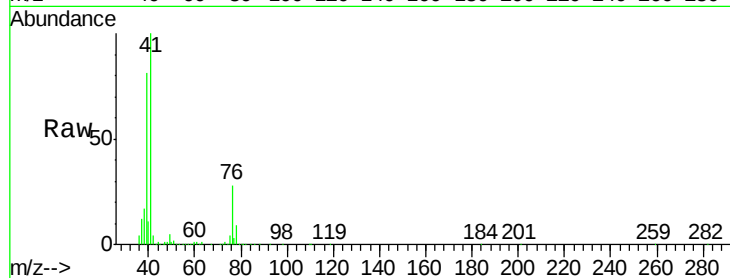




#21
 Allyl Chloride
 Concen: 8.83 ppbv
 RT: 4.59 min Scan# 1089
 Delta R.T. -0.00 min
 Lab File: VL031882.D
 Acq: 19 Apr 2018 17:53

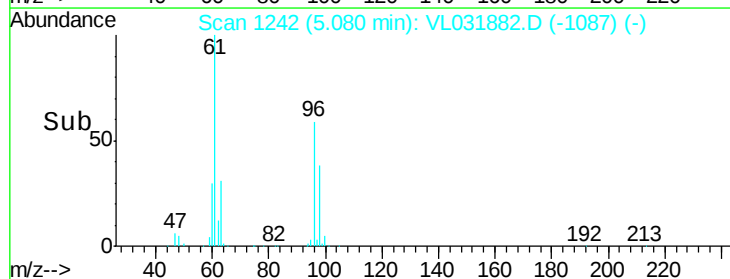
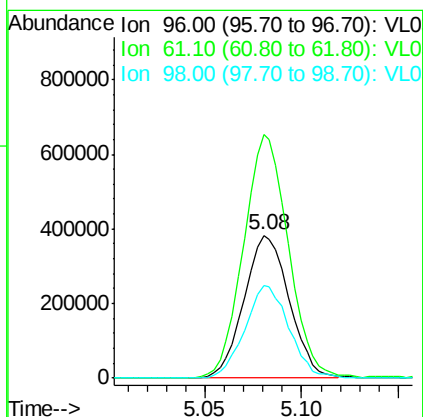
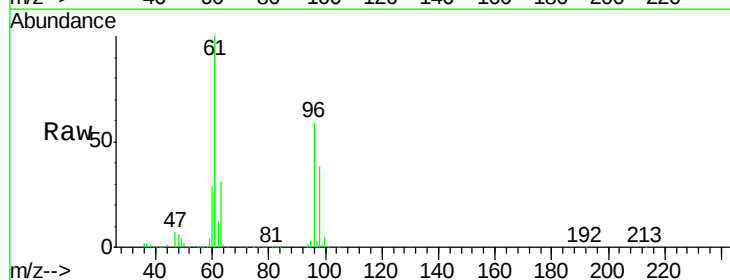
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0419ABS01

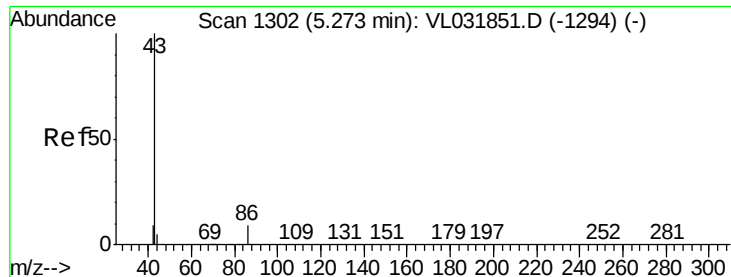
Tgt Ion: 41 Resp: 954548
 Ion Ratio Lower Upper
 41 100
 76 30.1 23.4 35.2
 39 83.2 67.6 101.4



#22
 trans-1,2-Dichloroethene
 Concen: 8.65 ppbv
 RT: 5.08 min Scan# 1242
 Delta R.T. -0.00 min
 Lab File: VL031882.D
 Acq: 19 Apr 2018 17:53

Tgt Ion: 96 Resp: 622130
 Ion Ratio Lower Upper
 96 100
 61 170.8 131.1 196.7
 98 64.9 47.6 71.4





#23

Vinyl Acetate

Concen: 9.13 ppbv

RT: 5.27 min Scan# 1302

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

VL0419ABS01

Tgt Ion: 43 Resp: 1751419

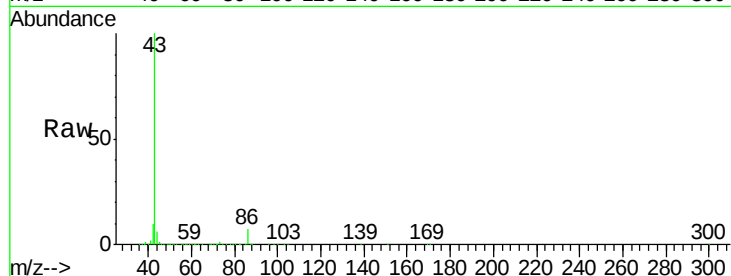
Ion Ratio Lower Upper

43 100

86 7.4 5.8 8.8

42 10.0 8.5 12.7

44 5.6 4.2 6.4

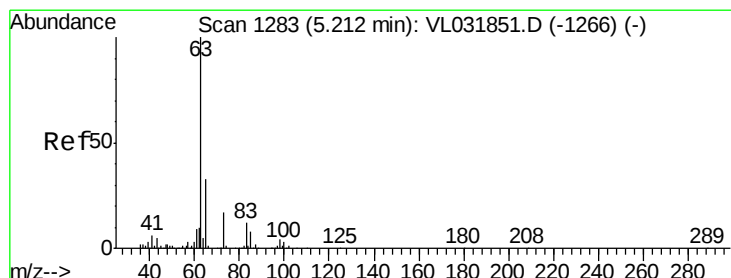
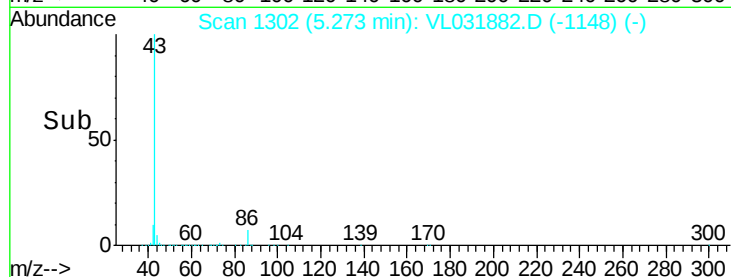
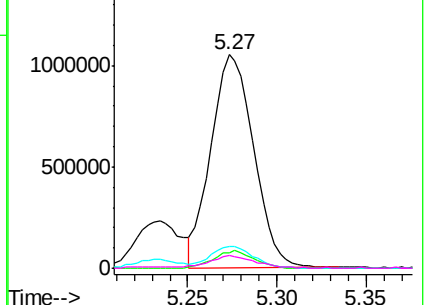


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.61 ppbv

RT: 5.21 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

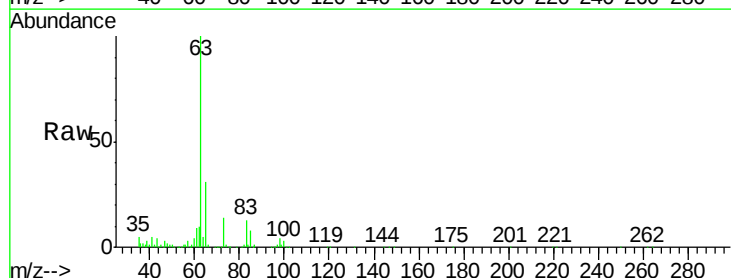
Tgt Ion: 63 Resp: 1646867

Ion Ratio Lower Upper

63 100

98 4.0 2.4 7.2

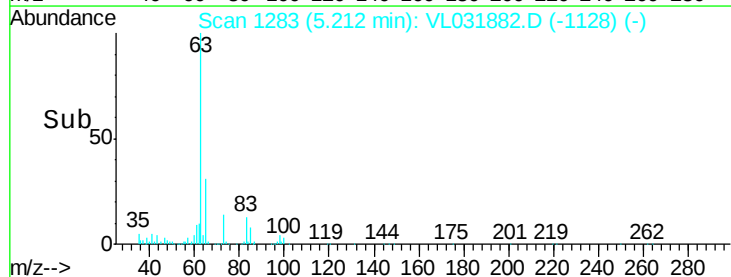
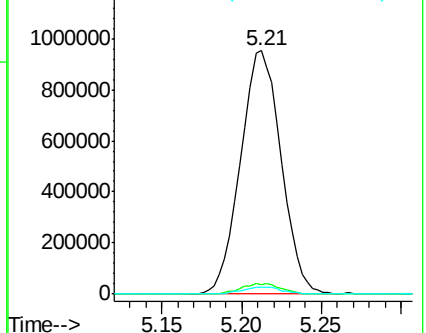
100 3.0 1.5 4.4

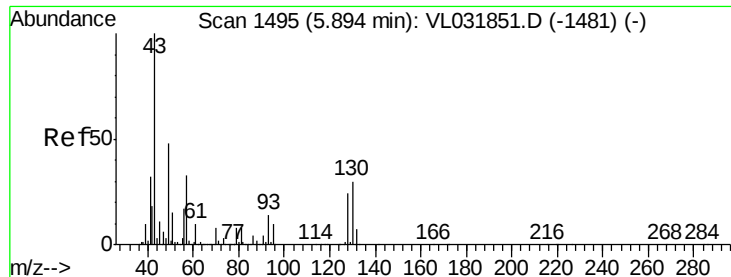


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



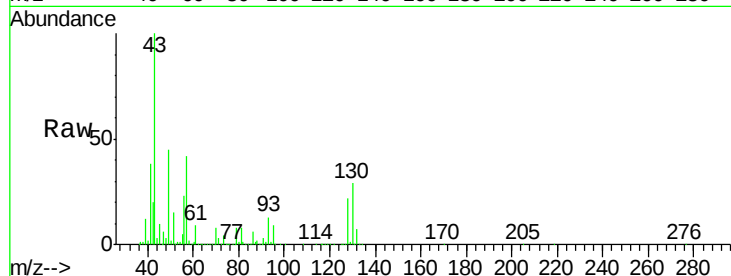


#25
Ethyl Acetate
Concen: 8.98 ppbv
RT: 5.90 min Scan# 1496
Delta R.T. -0.00 min
Lab File: VL031882.D
Acq: 19 Apr 2018 17:53

Instrument :
MSVOA_L
ClientSampleId :
VL0419ABS01

Tgt Ion: 43 Resp: 2650442

Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.8
61	9.1	7.2	10.8
70	7.4	5.8	8.8



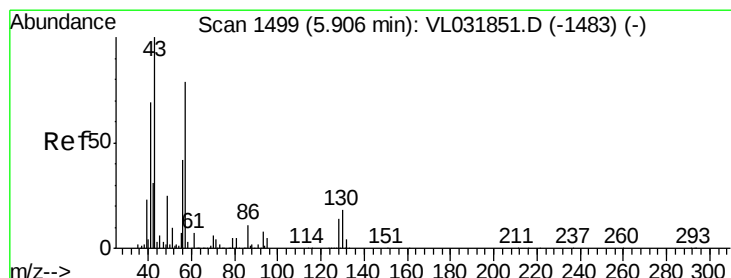
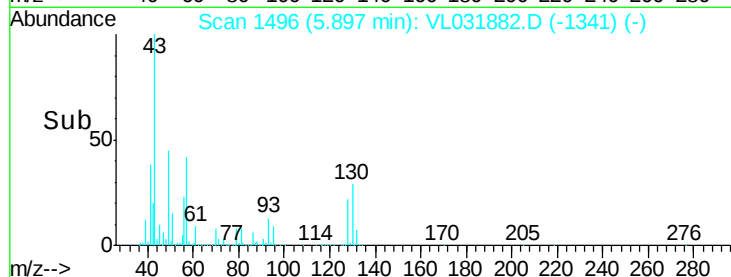
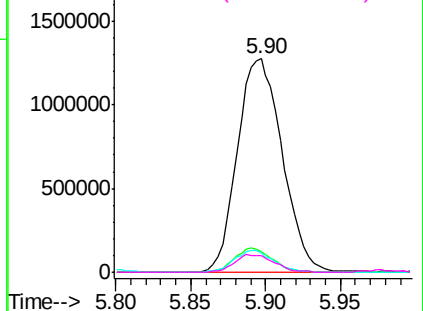
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

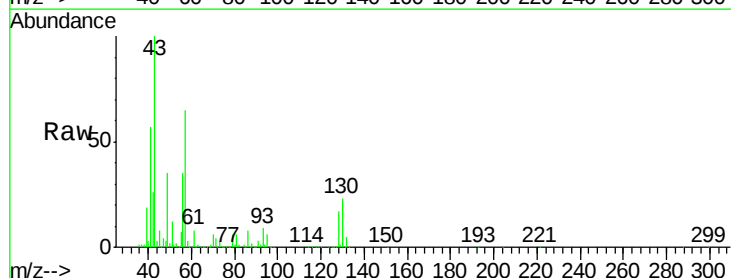
Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 9.12 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. -0.00 min
Lab File: VL031882.D
Acq: 19 Apr 2018 17:53

Tgt Ion: 57 Resp: 1254590

Ion	Ratio	Lower	Upper
57	100		
41	92.6	72.0	108.0
43	212.7	169.8	254.8
56	53.6	42.0	63.0



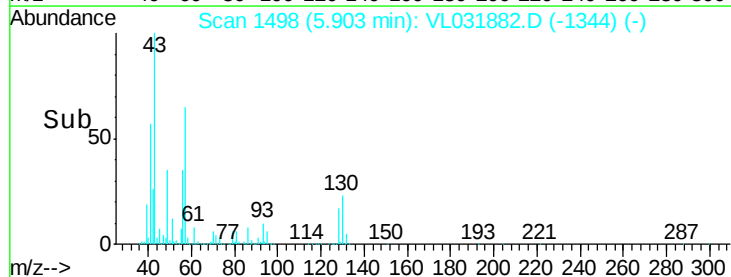
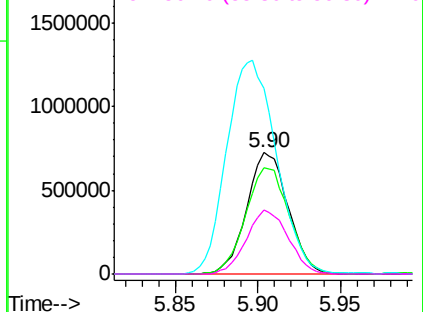
Abundance

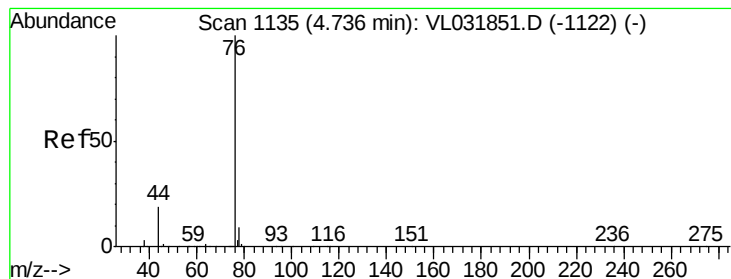
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 9.13 ppbv

RT: 4.74 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

VL0419ABS01

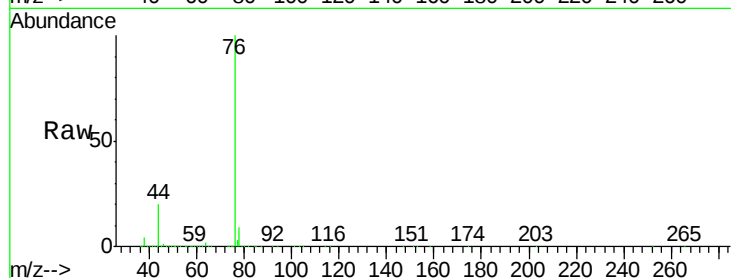
Tgt Ion: 76 Resp: 1631666

Ion Ratio Lower Upper

76 100

44 19.2 15.6 23.4

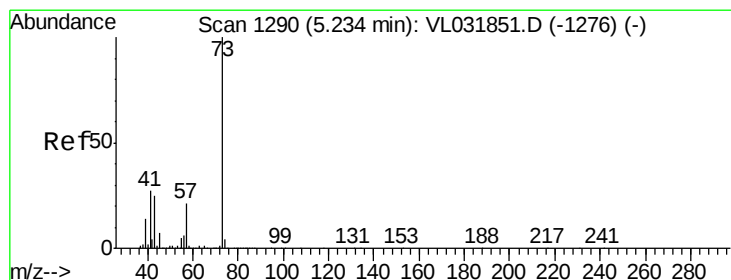
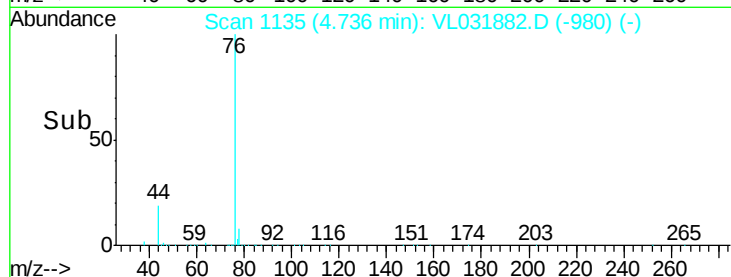
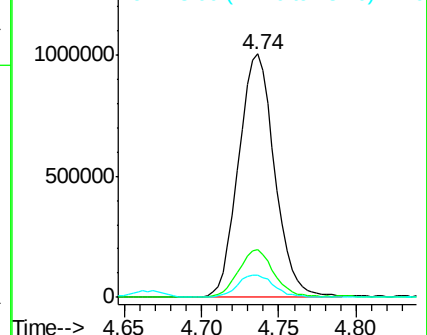
78 9.3 7.6 11.4



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: 9.25 ppbv

RT: 5.23 min Scan# 1290

Delta R.T. 0.00 min

Lab File: VL031882.D

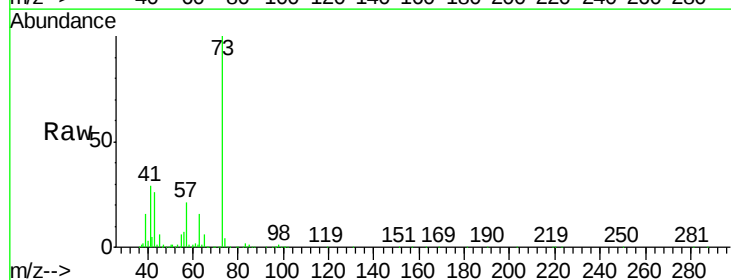
Acq: 19 Apr 2018 17:53

Tgt Ion: 73 Resp: 1566516

Ion Ratio Lower Upper

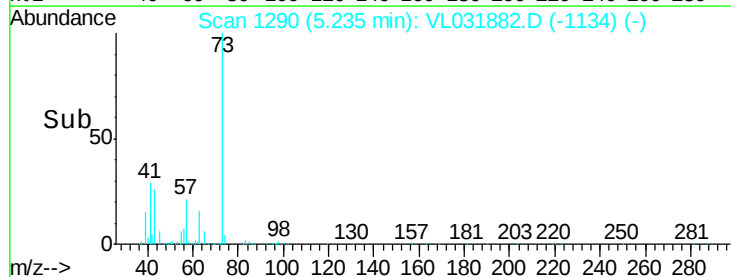
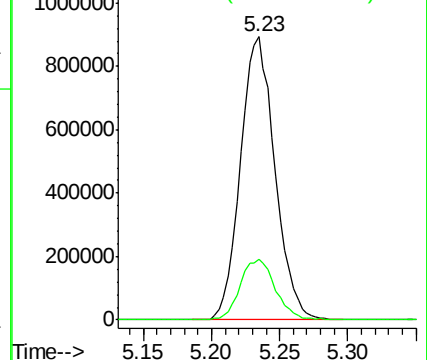
73 100

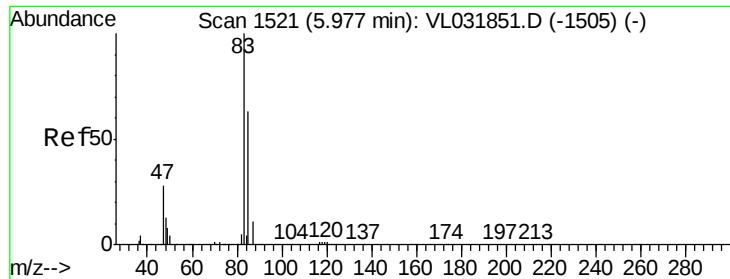
57 22.0 17.6 26.4



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 8.72 ppbv

RT: 5.97 min Scan# 1520

Delta R.T. -0.01 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

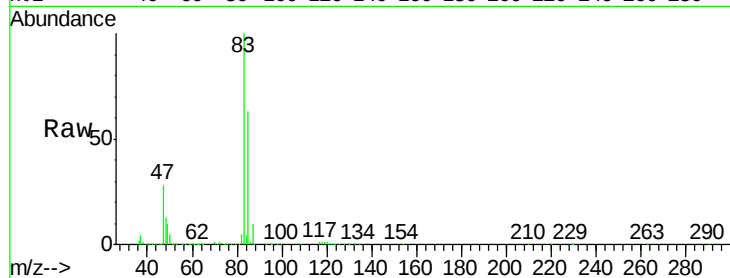
VL0419ABS01

Tgt Ion: 83 Resp: 2033915

Ion Ratio Lower Upper

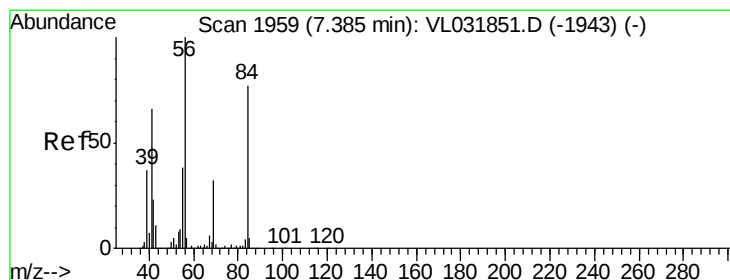
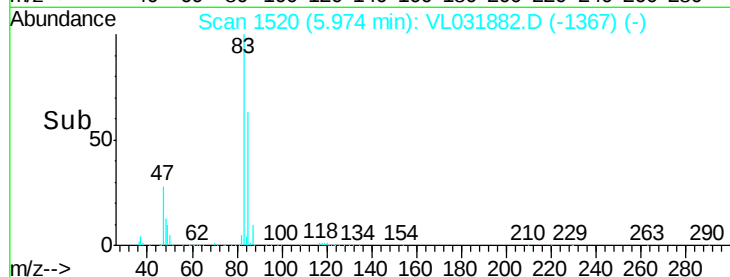
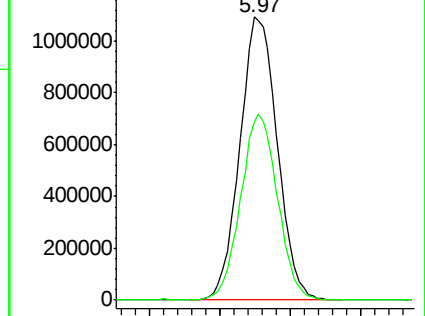
83 100

85 63.0 51.4 77.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 9.99 ppbv

RT: 7.39 min Scan# 1959

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

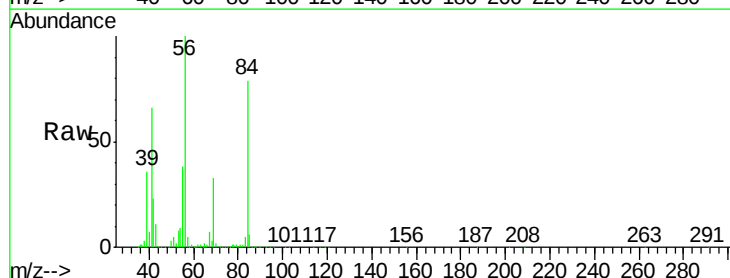
Tgt Ion: 84 Resp: 982072

Ion Ratio Lower Upper

84 100

56 136.3 107.7 161.5

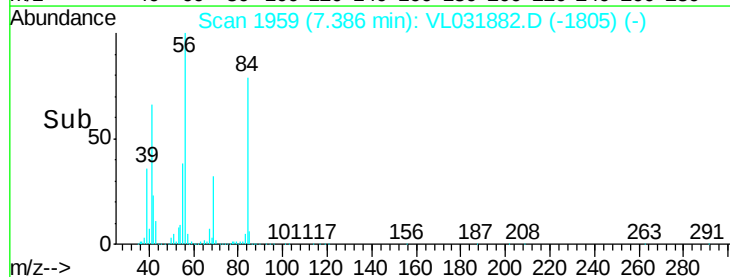
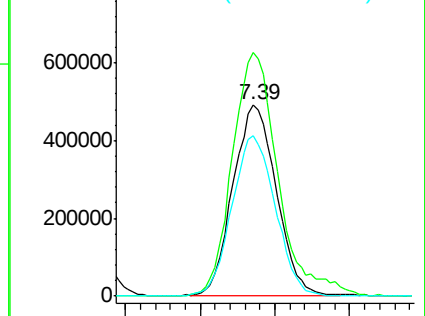
41 85.1 68.2 102.2

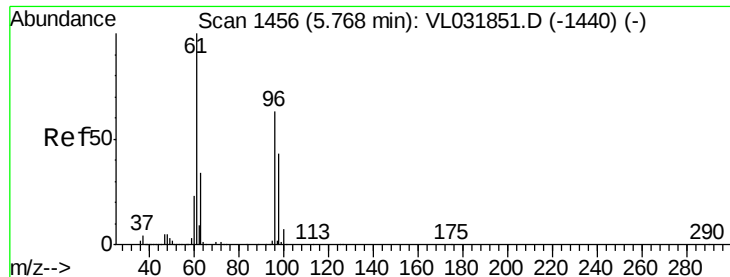


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

cis-1,2-Dichloroethene

Concen: 9.42 ppbv

RT: 5.77 min Scan# 1456

Delta R.T. 0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

VL0419ABS01

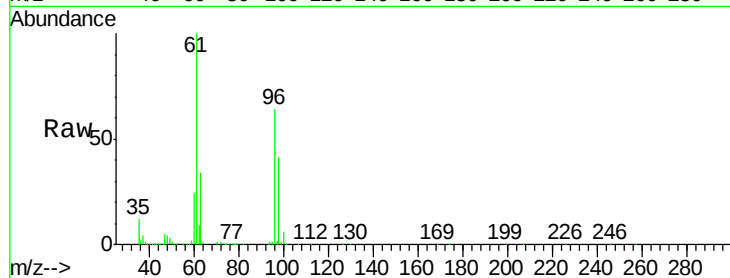
Tgt Ion: 61 Resp: 1173763

Ion Ratio Lower Upper

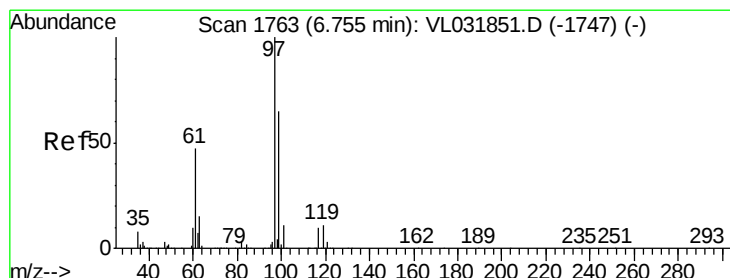
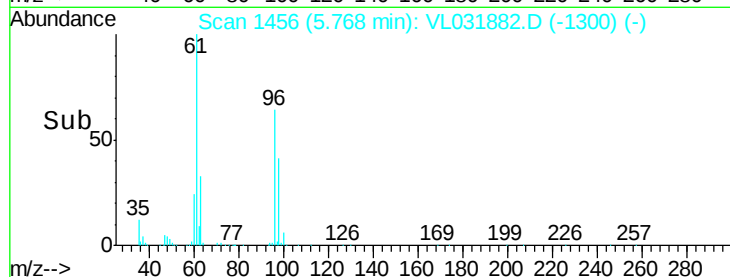
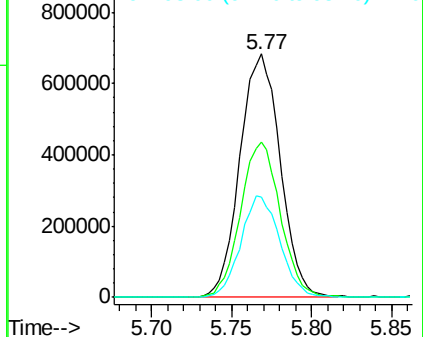
61 100

96 63.9 47.6 71.4

98 41.0 30.3 45.5



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: 8.91 ppbv

RT: 6.75 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

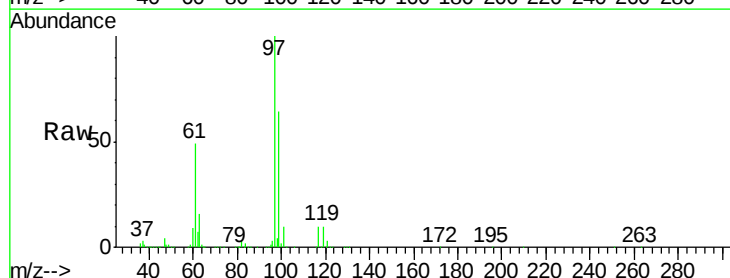
Tgt Ion: 97 Resp: 2024550

Ion Ratio Lower Upper

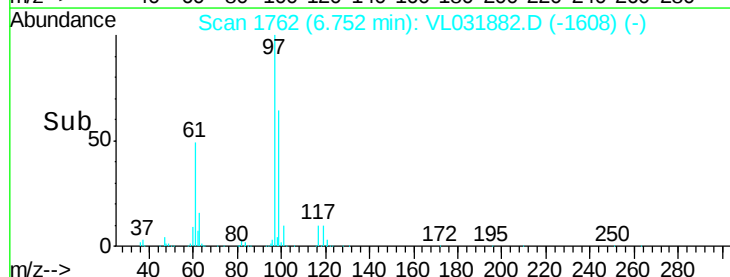
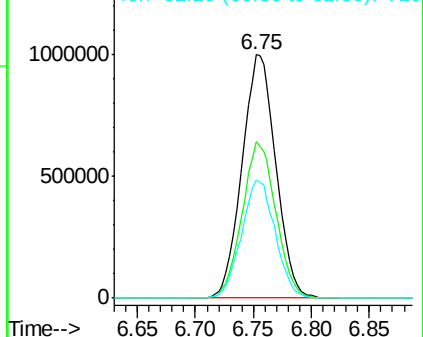
97 100

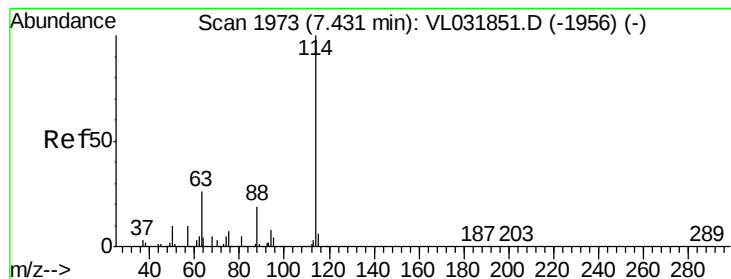
99 64.0 51.5 77.3

61 48.6 40.0 60.0



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: 7.43 min Scan# 1973

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

VL0419ABS01

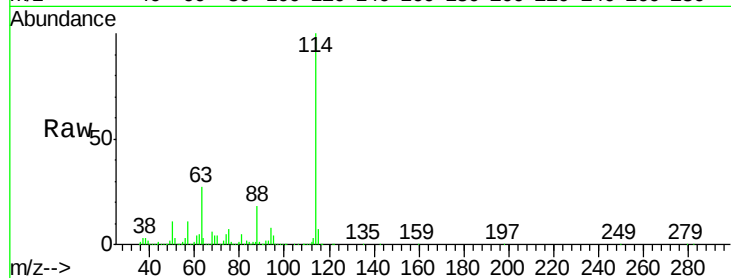
Tgt Ion:114 Resp: 2899560

Ion Ratio Lower Upper

114 100

63 27.0 21.8 32.6

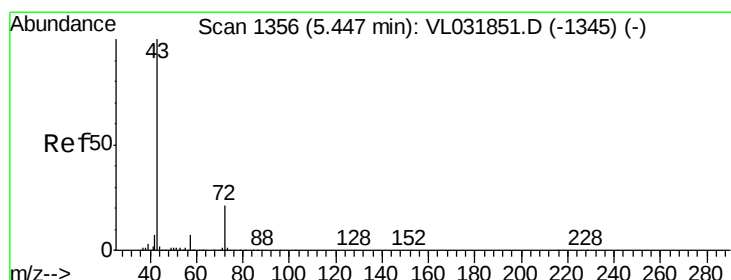
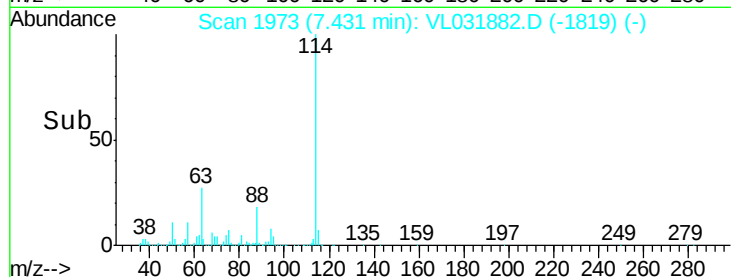
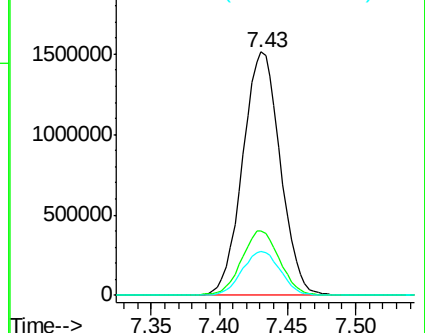
88 18.4 14.6 22.0



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 8.22 ppbv

RT: 5.45 min Scan# 1357

Delta R.T. -0.00 min

Lab File: VL031882.D

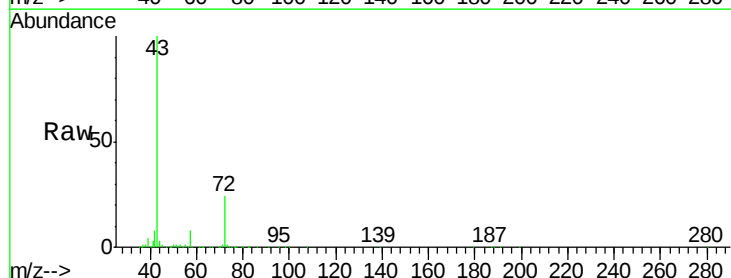
Acq: 19 Apr 2018 17:53

Tgt Ion: 43 Resp: 1652534

Ion Ratio Lower Upper

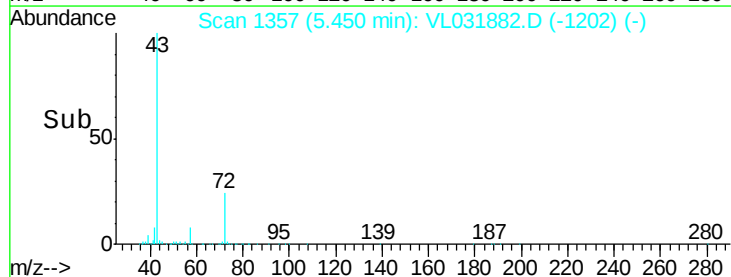
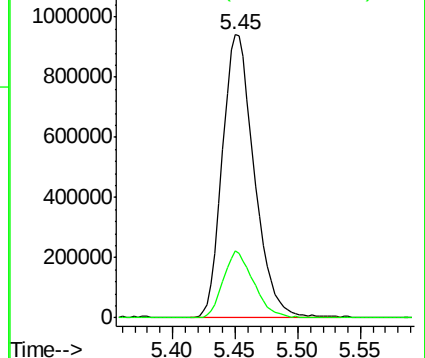
43 100

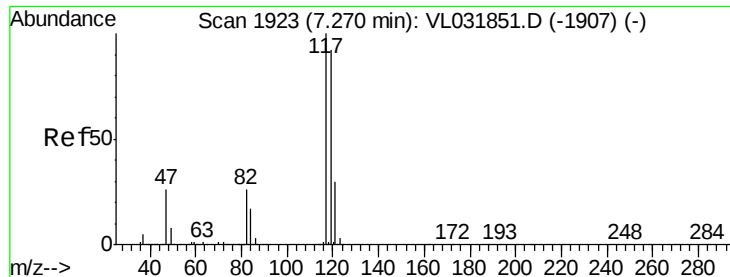
72 22.8 18.6 27.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

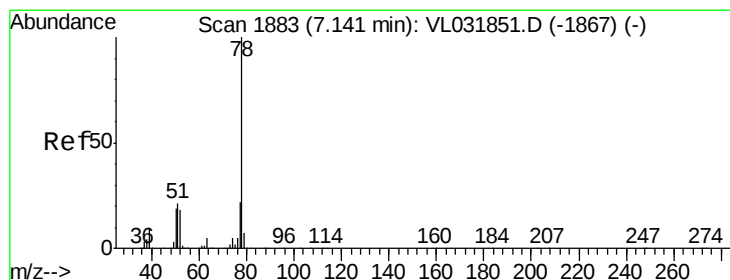
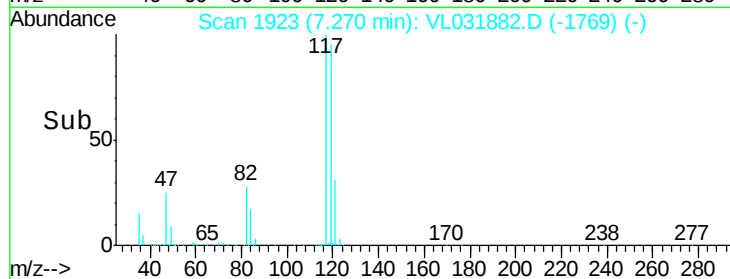
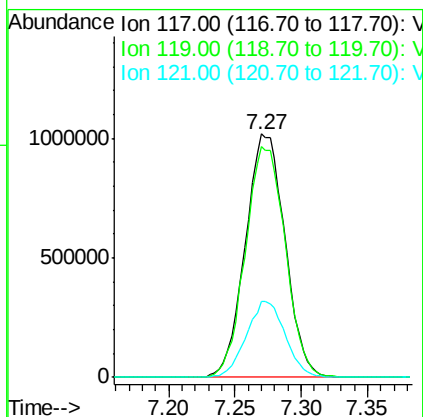
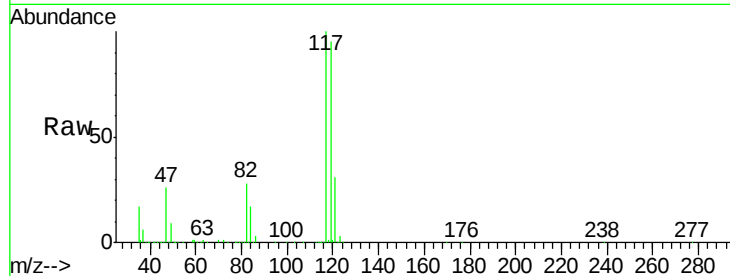




#35
Carbon Tetrachloride
Concen: 8.42 ppbv
RT: 7.27 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VL031882.D
Acq: 19 Apr 2018 17:53

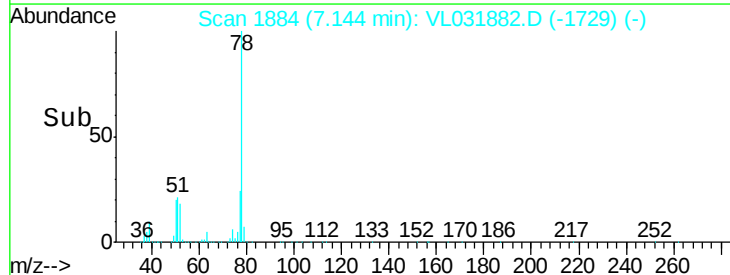
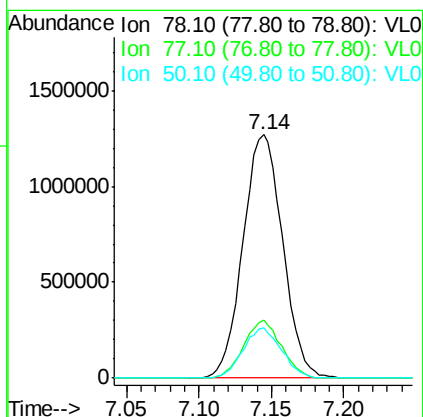
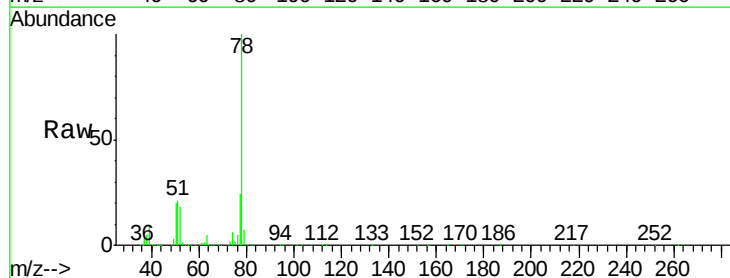
Instrument :
MSVOA_L
ClientSampleId :
VL0419ABS01

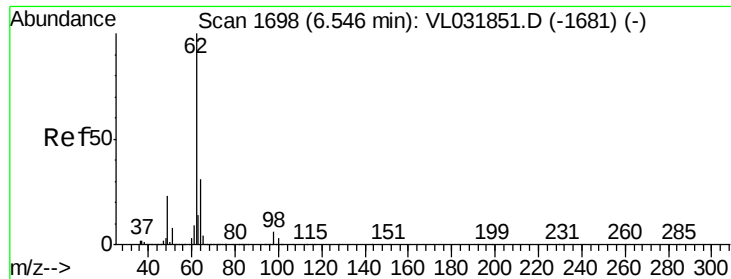
Tgt Ion: 117 Resp: 2120148
Ion Ratio Lower Upper
117 100
119 94.9 76.9 115.3
121 31.2 24.5 36.7



#36
Benzene
Concen: 9.28 ppbv
RT: 7.14 min Scan# 1884
Delta R.T. -0.00 min
Lab File: VL031882.D
Acq: 19 Apr 2018 17:53

Tgt Ion: 78 Resp: 2420201
Ion Ratio Lower Upper
78 100
77 23.7 19.2 28.8
50 20.4 16.7 25.1

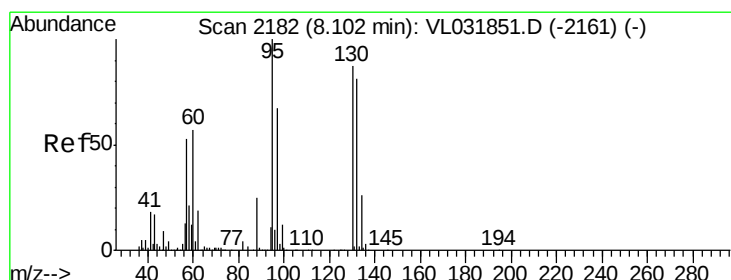
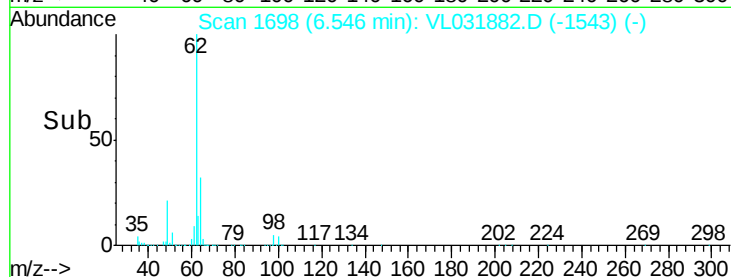
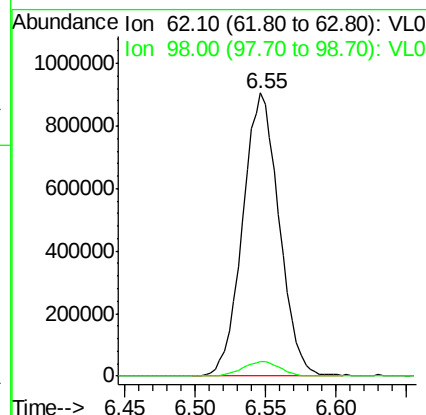
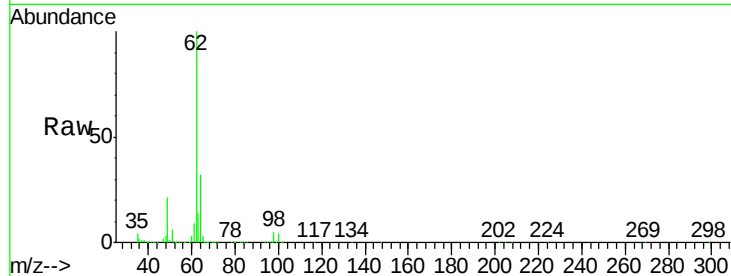




#37
 1,2-Dichloroethane
 Concen: 8.45 ppbv
 RT: 6.55 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VL031882.D
 Acq: 19 Apr 2018 17:53

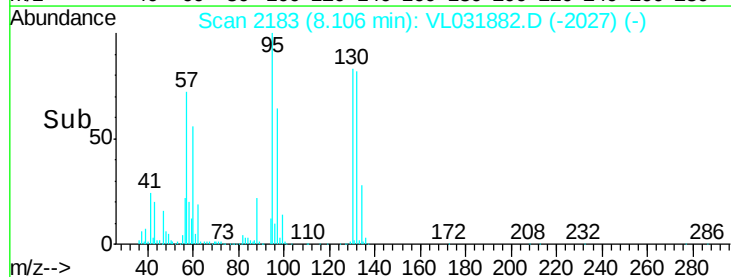
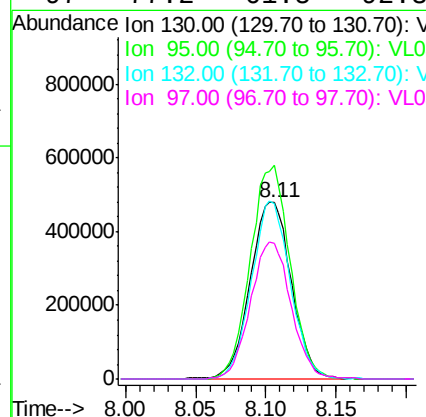
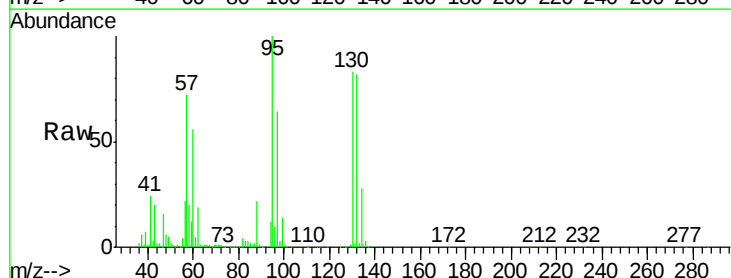
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0419ABS01

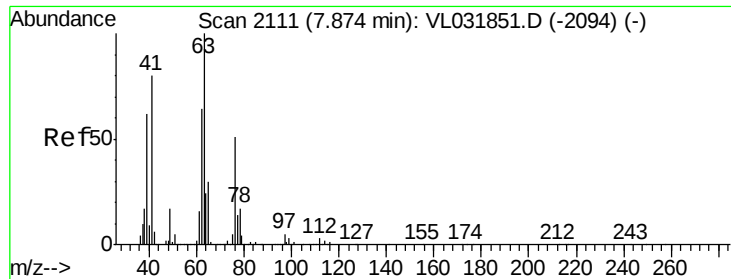
Tgt Ion: 62 Resp: 1640643
 Ion Ratio Lower Upper
 62 100
 98 5.2 4.0 6.0



#38
 Trichloroethene
 Concen: 9.17 ppbv
 RT: 8.11 min Scan# 2183
 Delta R.T. 0.00 min
 Lab File: VL031882.D
 Acq: 19 Apr 2018 17:53

Tgt Ion: 130 Resp: 970713
 Ion Ratio Lower Upper
 130 100
 95 121.3 96.6 144.8
 132 99.3 79.1 118.7
 97 77.2 61.5 92.3

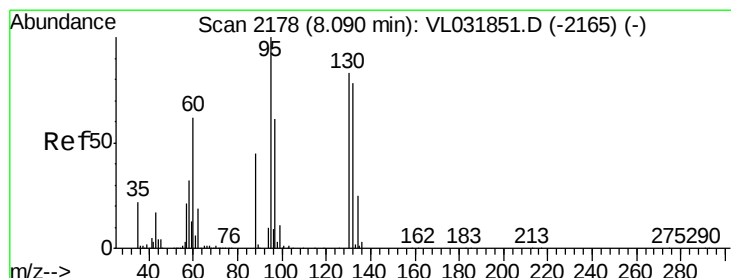
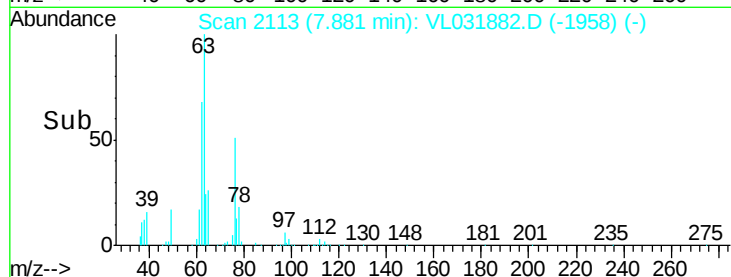
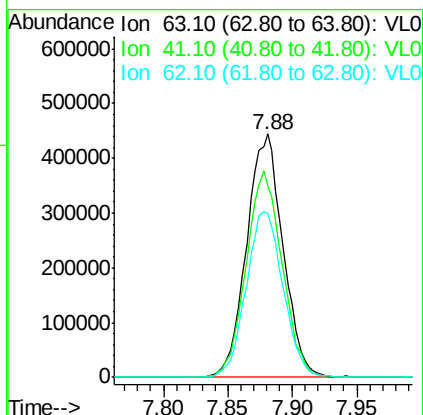
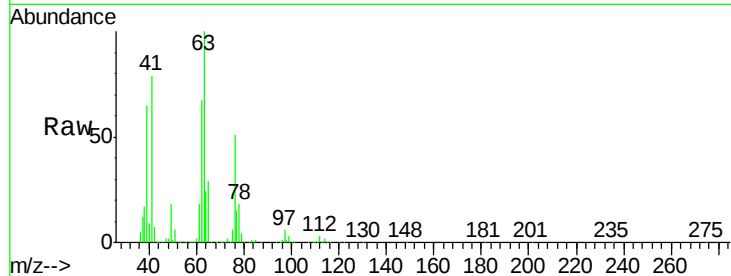




#39
 1,2-Dichloropropane
 Concen: 9.01 ppbv
 RT: 7.88 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VL031882.D
 Acq: 19 Apr 2018 17:53

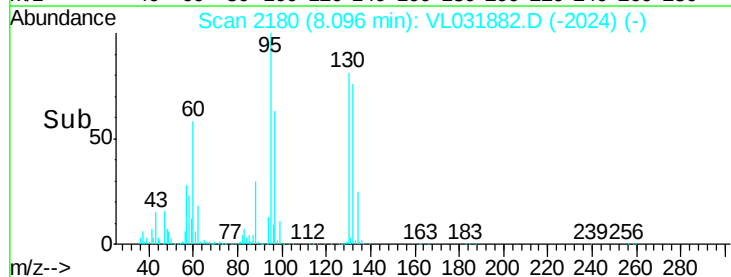
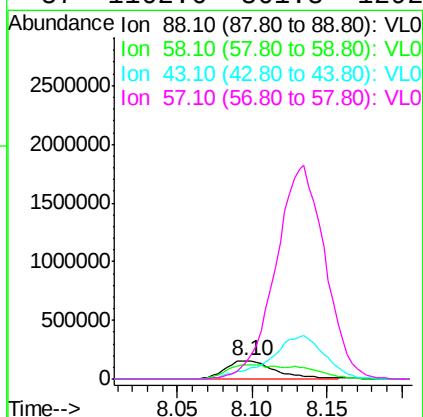
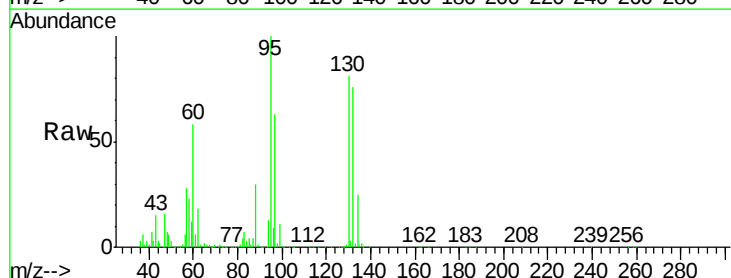
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0419ABS01

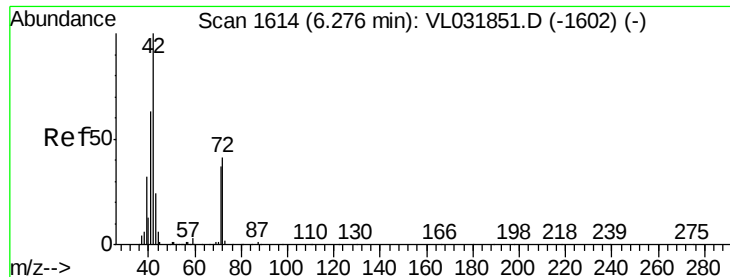
Tgt Ion	Ratio	Lower	Upper
63	100		
41	78.6	65.8	98.6
62	67.4	55.0	82.6



#40
 1,4-Dioxane
 Concen: 9.13 ppbv
 RT: 8.10 min Scan# 2180
 Delta R.T. 0.00 min
 Lab File: VL031882.D
 Acq: 19 Apr 2018 17:53

Tgt Ion	Ratio	Lower	Upper
88	100		
58	130.7	98.5	147.7
43	260.6	194.3	291.5
57	1162.6	861.8	1292.6





#41

Tetrahydrofuran

Concen: 9.21 ppbv

RT: 6.28 min Scan# 1615

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

VL0419ABS01

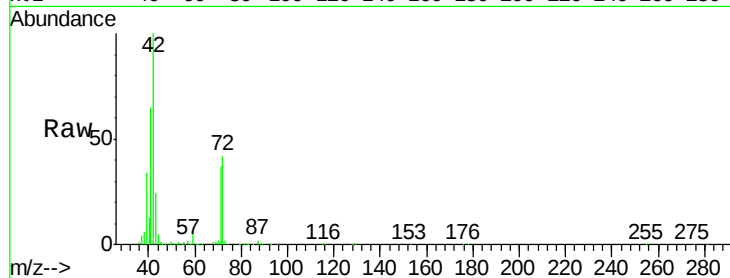
Tgt Ion: 42 Resp: 857474

Ion Ratio Lower Upper

42 100

72 40.6 33.2 49.8

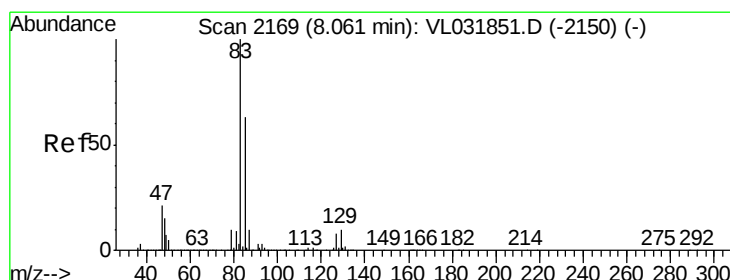
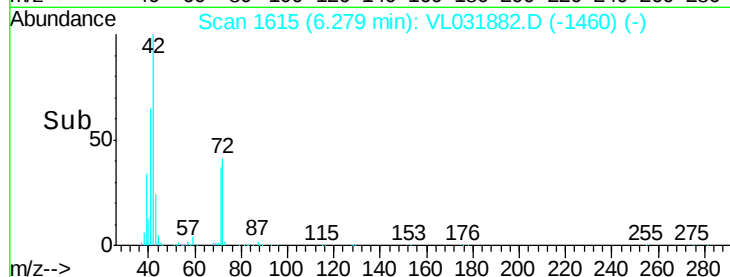
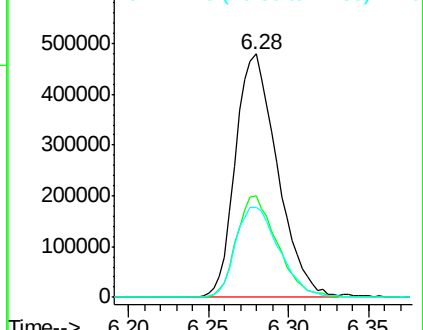
71 38.7 31.5 47.3



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.08 ppbv

RT: 8.06 min Scan# 2168

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

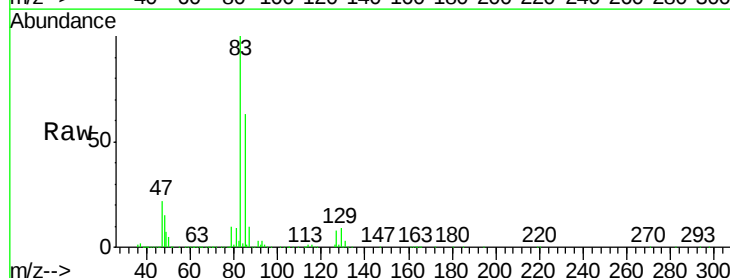
Tgt Ion: 83 Resp: 2109220

Ion Ratio Lower Upper

83 100

85 62.7 50.5 75.7

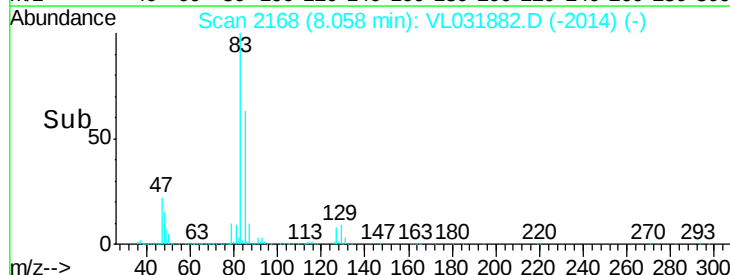
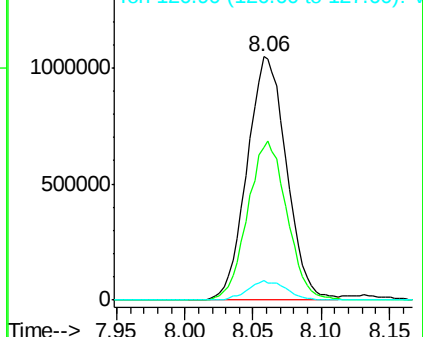
127 7.8 6.0 9.0

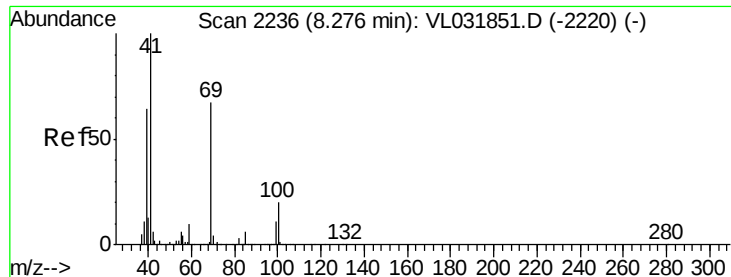


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

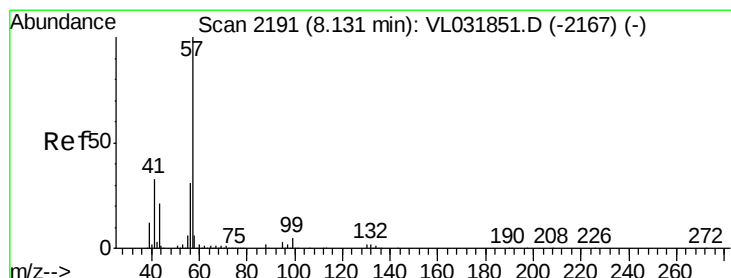
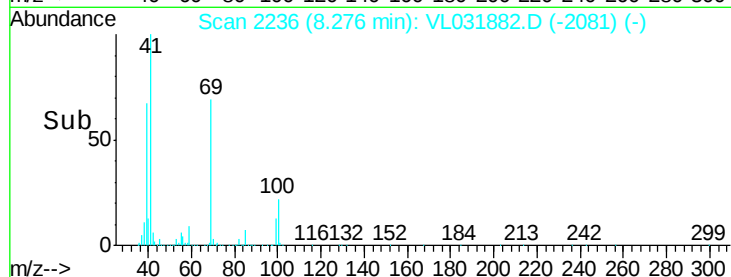
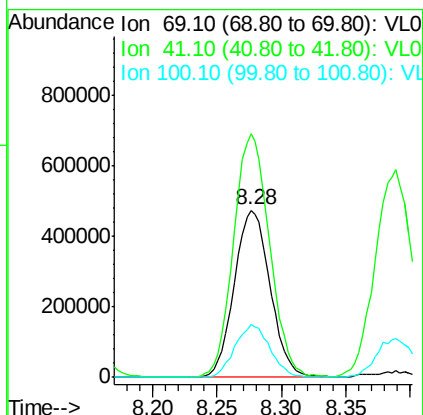
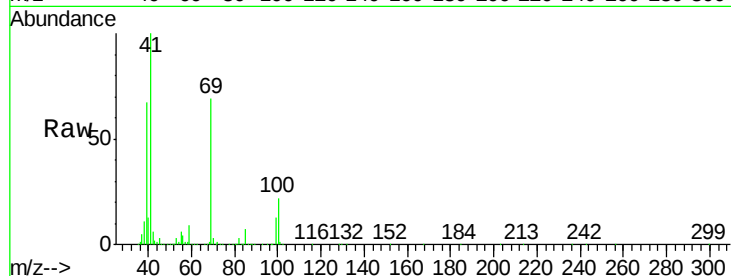




#43
Methyl Methacrylate
Concen: 9.97 ppbv
RT: 8.28 min Scan# 2236
Delta R.T. -0.00 min
Lab File: VL031882.D
Acq: 19 Apr 2018 17:53

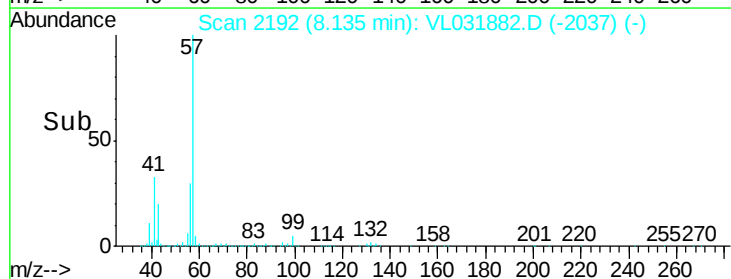
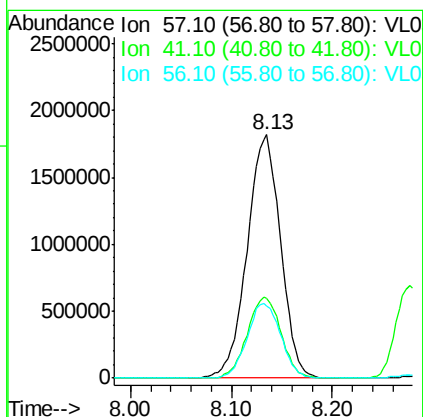
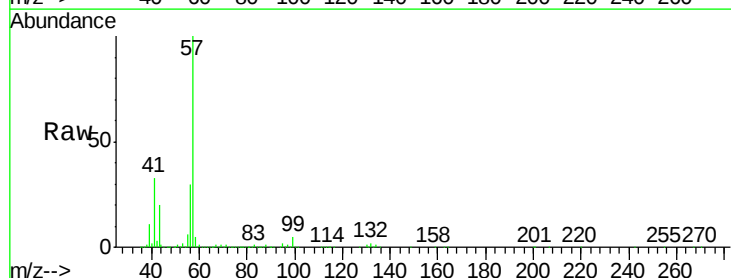
Instrument :
MSVOA_L
ClientSampleId :
VL0419ABS01

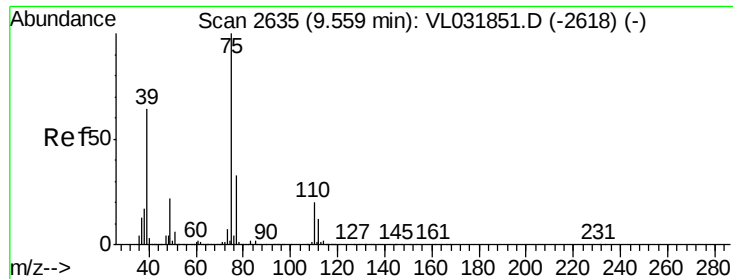
Tgt Ion: 69 Resp: 915163
Ion Ratio Lower Upper
69 100
41 146.4 117.8 176.8
100 31.0 24.6 37.0



#44
2,2,4-Trimethylpentane
Concen: 9.29 ppbv
RT: 8.13 min Scan# 2192
Delta R.T. -0.00 min
Lab File: VL031882.D
Acq: 19 Apr 2018 17:53

Tgt Ion: 57 Resp: 4173385
Ion Ratio Lower Upper
57 100
41 33.7 27.0 40.6
56 31.0 24.1 36.1





#45

t-1,3-Dichloropropene

Concen: 10.70 ppbv

RT: 9.56 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

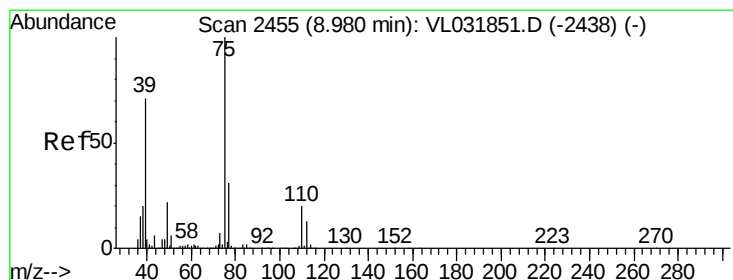
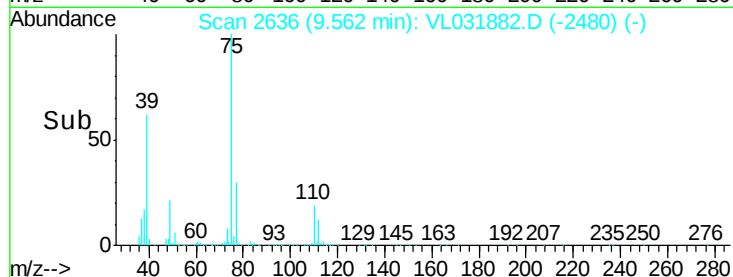
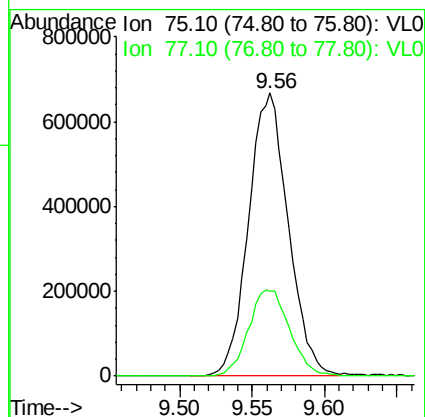
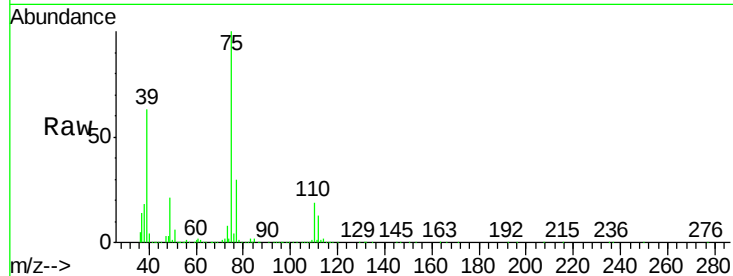
VL0419ABS01

Tgt Ion: 75 Resp: 1273909

Ion Ratio Lower Upper

75 100

77 30.1 25.1 37.7



#46

cis-1,3-Dichloropropene

Concen: 10.22 ppbv

RT: 8.98 min Scan# 2455

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

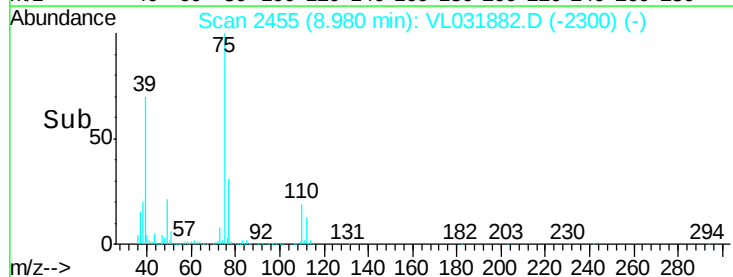
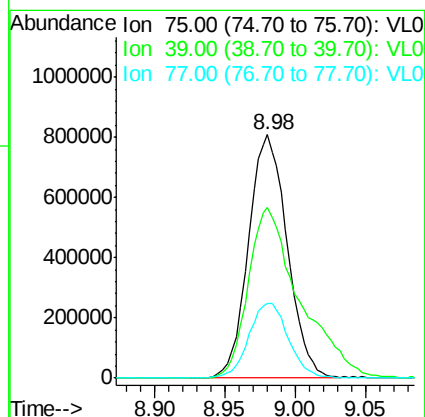
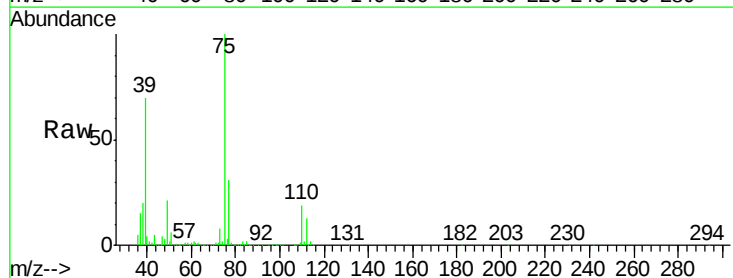
Tgt Ion: 75 Resp: 1554868

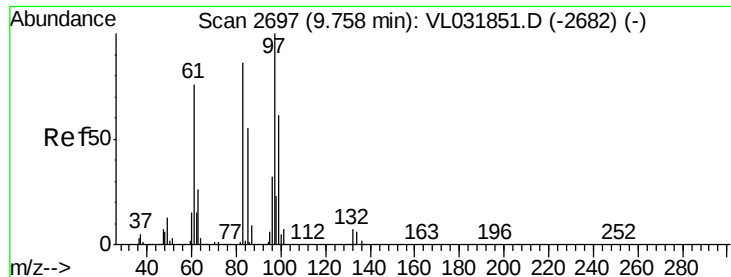
Ion Ratio Lower Upper

75 100

39 70.1 58.6 87.8

77 30.7 26.8 40.2





#47

1,1,2-Trichloroethane

Concen: 9.00 ppbv

RT: 9.76 min Scan# 2698

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

VL0419ABS01

Tgt Ion: 97 Resp: 1037296

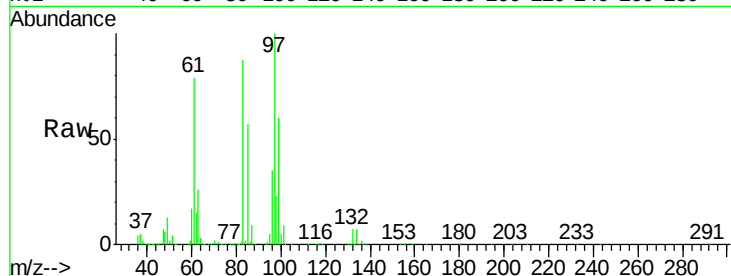
Ion Ratio Lower Upper

97 100

83 86.5 69.1 103.7

85 56.5 43.7 65.5

99 60.0 49.4 74.2

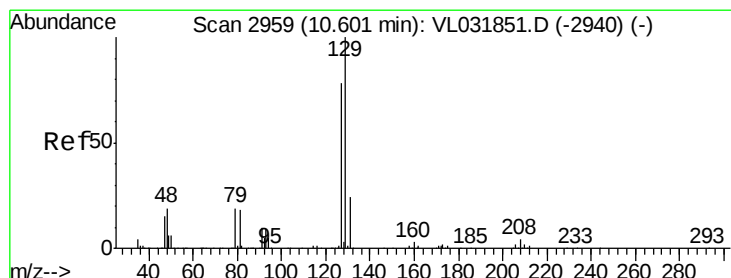
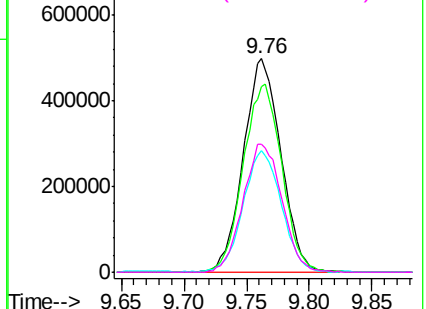
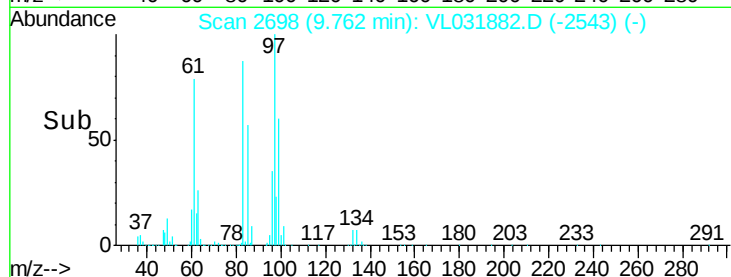


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 9.48 ppbv

RT: 10.60 min Scan# 2959

Delta R.T. -0.00 min

Lab File: VL031882.D

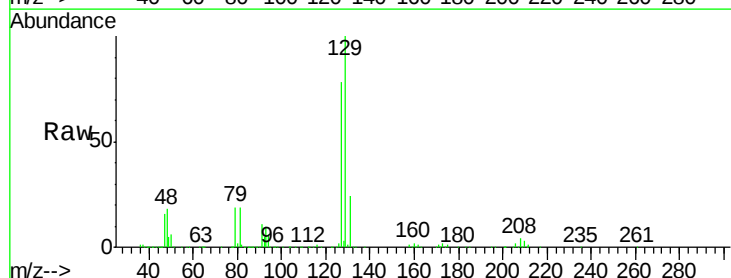
Acq: 19 Apr 2018 17:53

Tgt Ion: 129 Resp: 1764679

Ion Ratio Lower Upper

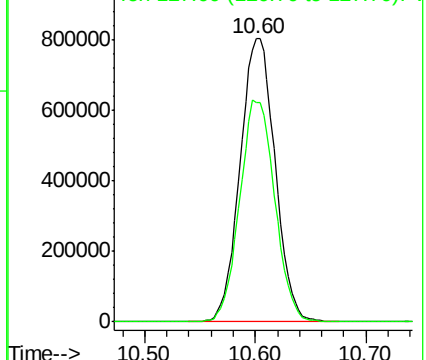
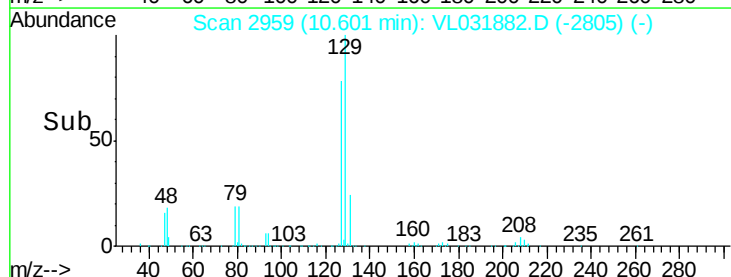
129 100

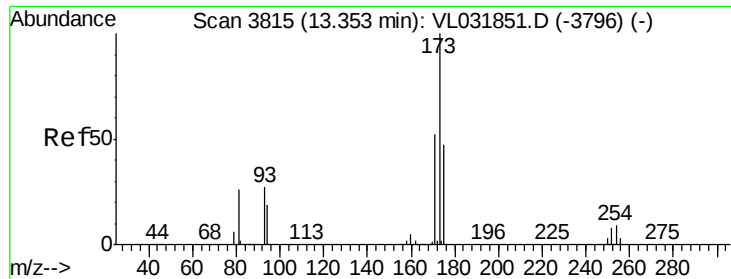
127 78.5 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.73 ppbv

RT: 13.36 min Scan# 3816

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

VL0419ABS01

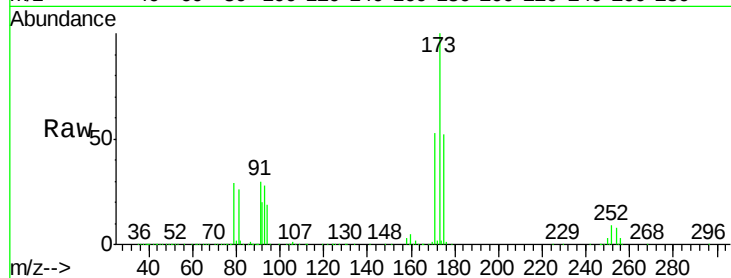
Tgt Ion: 173 Resp: 1395250

Ion Ratio Lower Upper

173 100

175 49.4 39.0 58.6

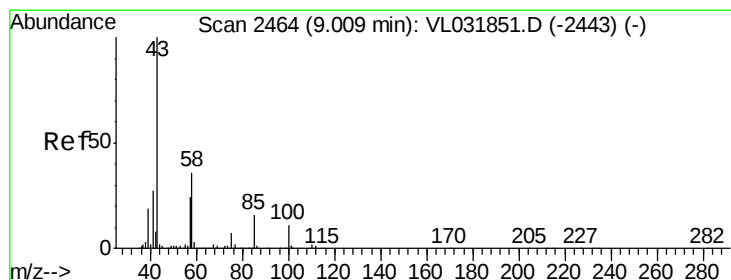
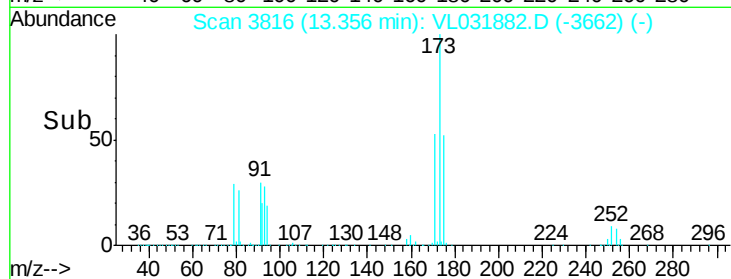
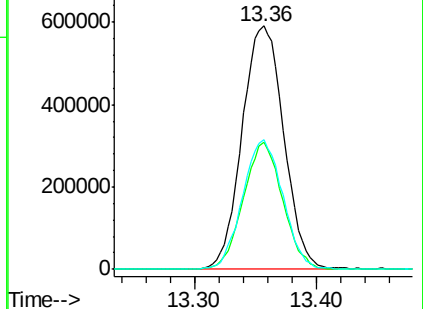
171 51.8 41.4 62.0



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: 9.22 ppbv

RT: 9.01 min Scan# 2465

Delta R.T. -0.00 min

Lab File: VL031882.D

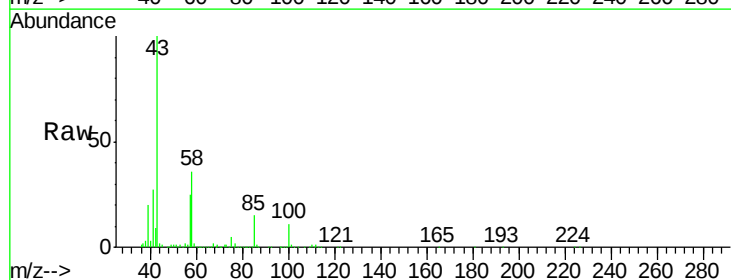
Acq: 19 Apr 2018 17:53

Tgt Ion: 43 Resp: 2122618

Ion Ratio Lower Upper

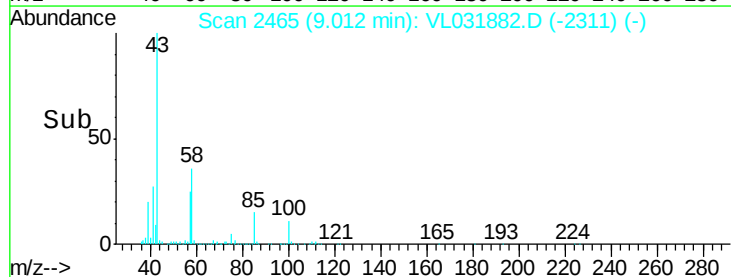
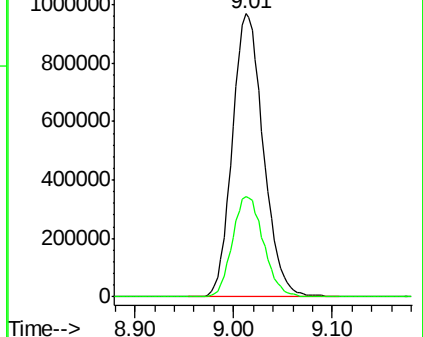
43 100

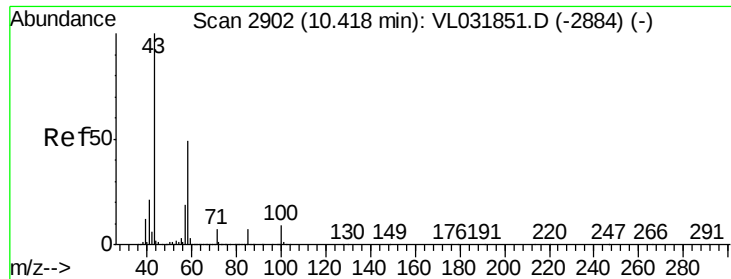
58 35.6 28.6 43.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 9.44 ppbv

RT: 10.42 min Scan# 2902

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

VL0419ABS01

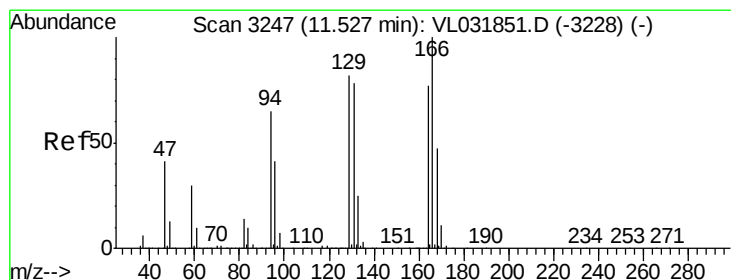
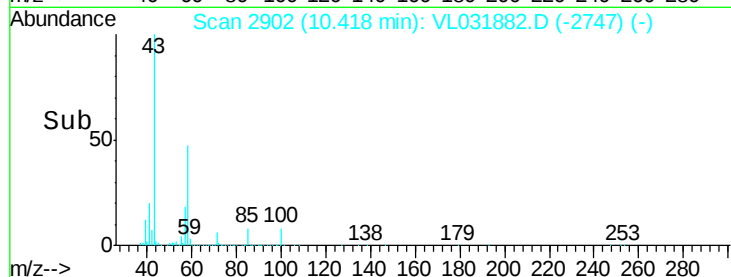
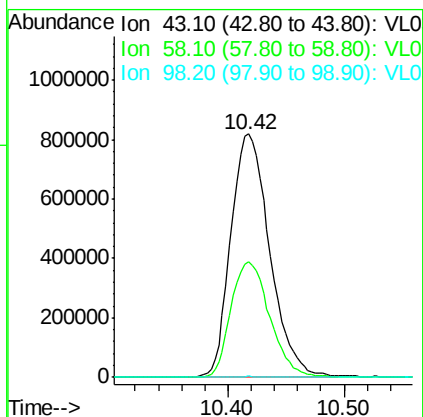
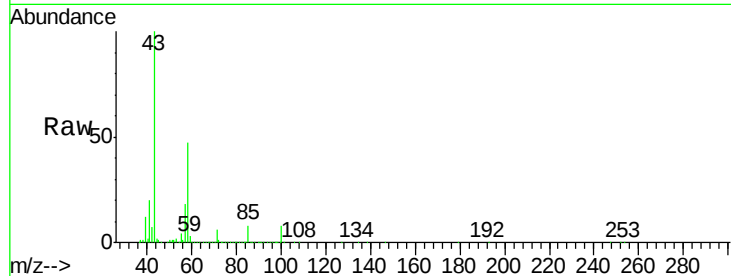
Tgt Ion: 43 Resp: 1900560

Ion Ratio Lower Upper

43 100

58 47.5 38.5 57.7

98 0.5 0.2 0.4#



#52

Tetrachloroethene

Concen: 9.12 ppbv

RT: 11.52 min Scan# 3246

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Tgt Ion: 164 Resp: 927148

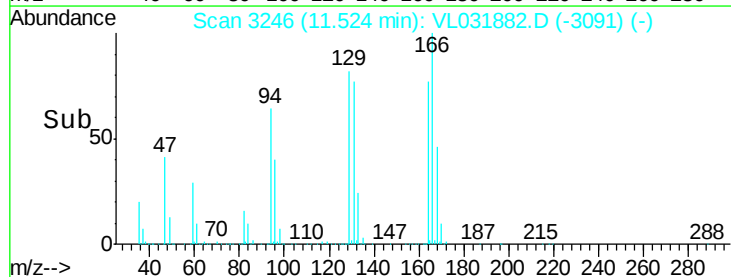
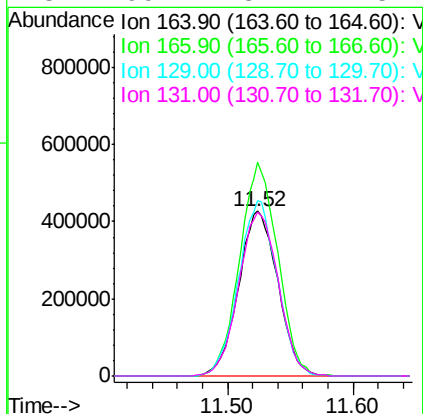
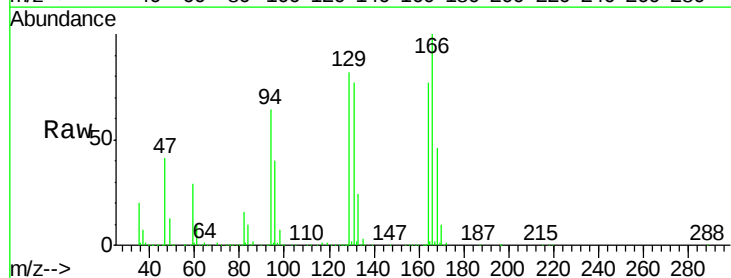
Ion Ratio Lower Upper

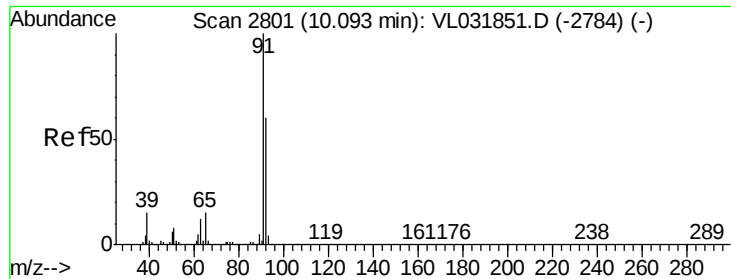
164 100

166 129.4 98.2 147.4

129 105.7 86.5 129.7

131 99.1 82.2 123.2





#53

Toluene

Concen: 9.92 ppbv

RT: 10.10 min Scan# 2802

Delta R.T. 0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

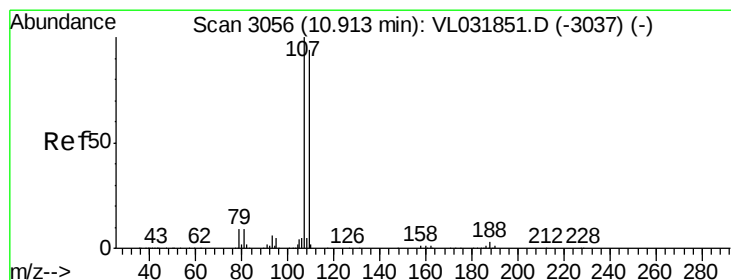
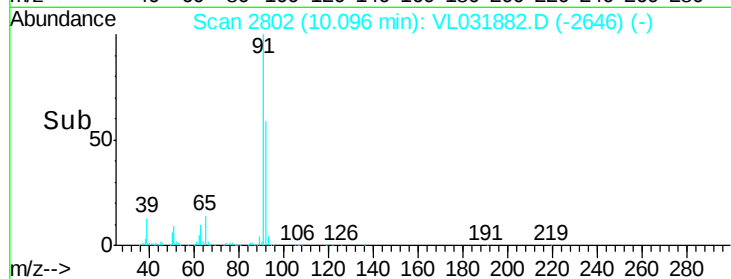
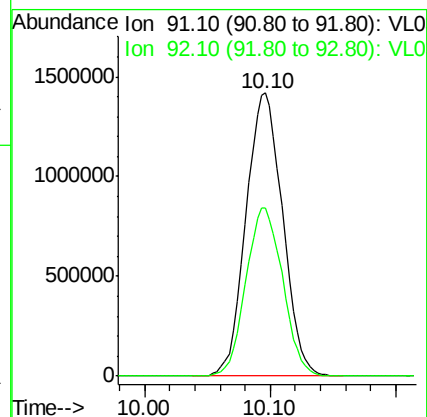
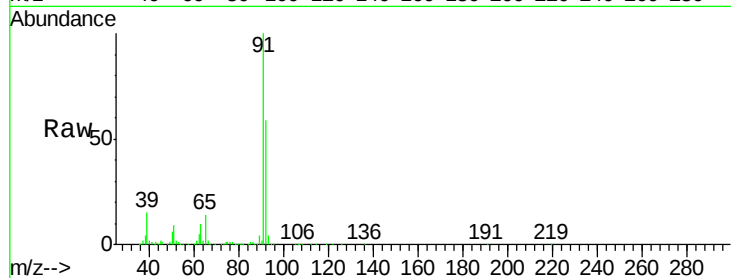
VL0419ABS01

Tgt Ion: 91 Resp: 2884920

Ion Ratio Lower Upper

91 100

92 59.5 47.4 71.2



#54

1,2-Dibromoethane

Concen: 9.27 ppbv

RT: 10.91 min Scan# 3055

Delta R.T. -0.00 min

Lab File: VL031882.D

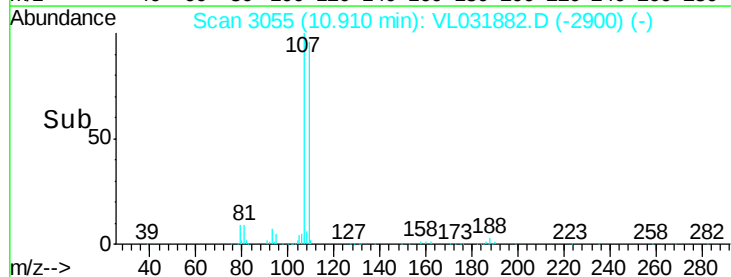
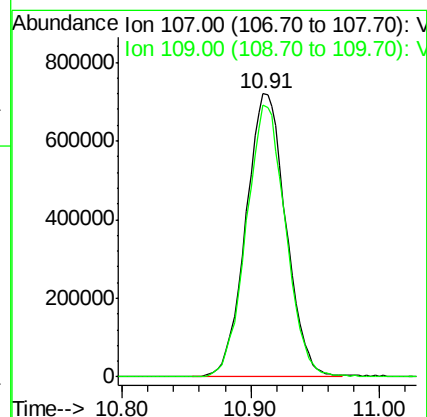
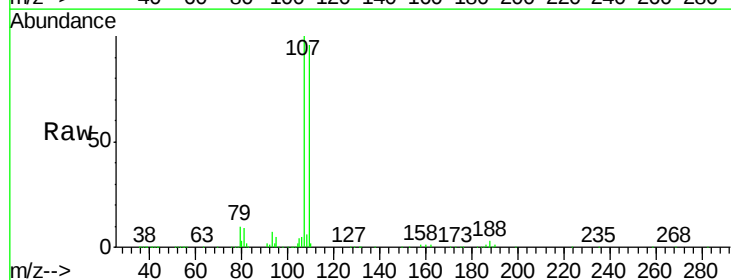
Acq: 19 Apr 2018 17:53

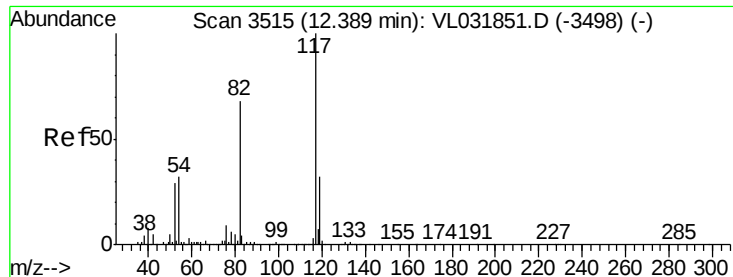
Tgt Ion: 107 Resp: 1550957

Ion Ratio Lower Upper

107 100

109 96.1 74.6 112.0





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.39 min Scan# 3516

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

VL0419ABS01

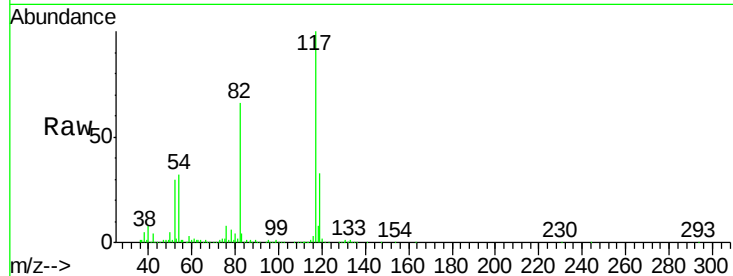
Tgt Ion:117 Resp: 3575600

Ion Ratio Lower Upper

117 100

82 55.5 54.6 81.8

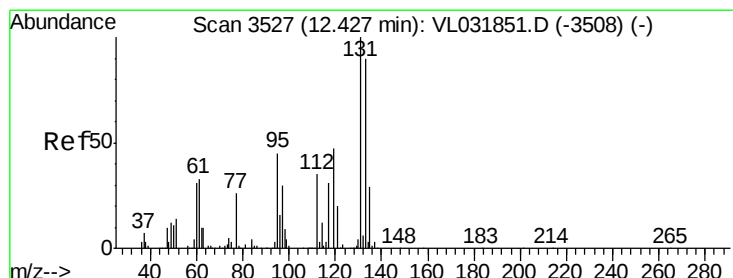
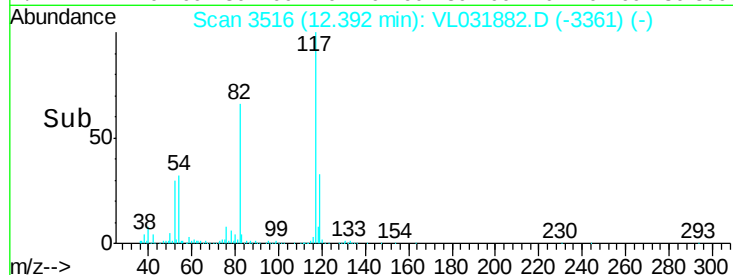
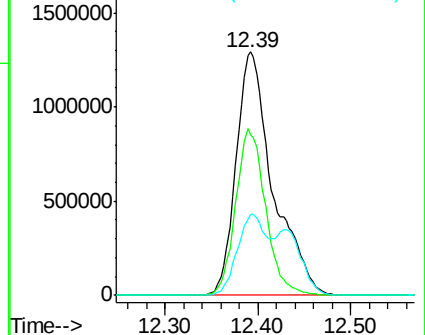
119 46.2 26.0 39.0#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 7.28 ppbv

RT: 12.43 min Scan# 3529

Delta R.T. 0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

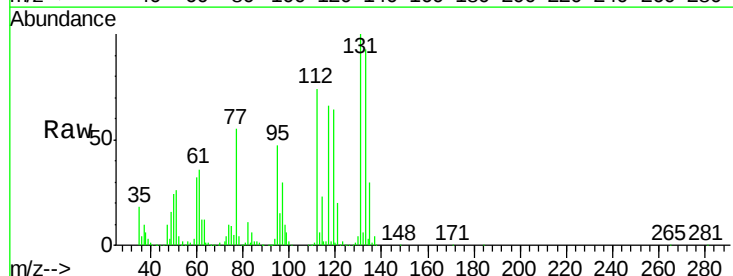
Tgt Ion:131 Resp: 1224833

Ion Ratio Lower Upper

131 100

133 94.9 76.1 114.1

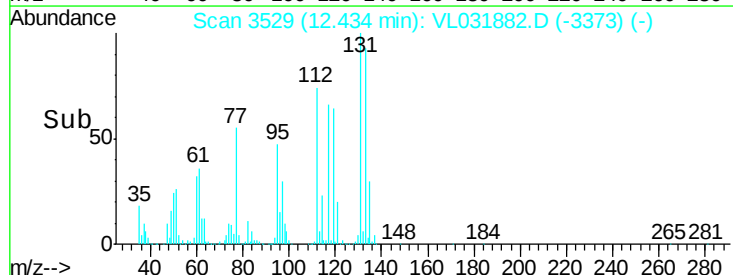
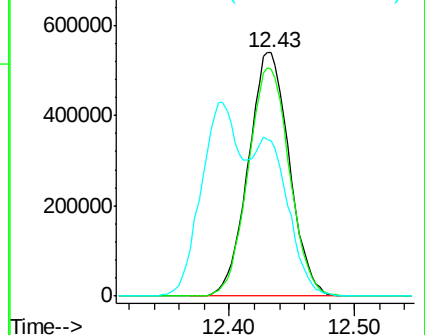
119 134.8 106.3 159.5

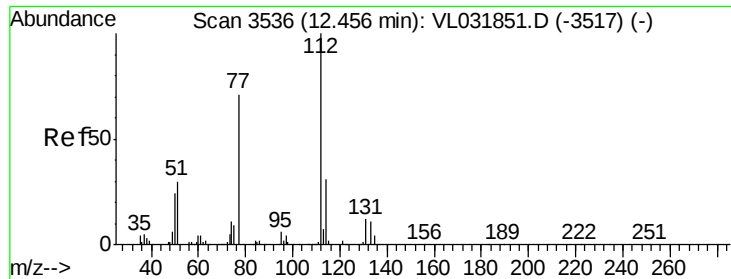


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

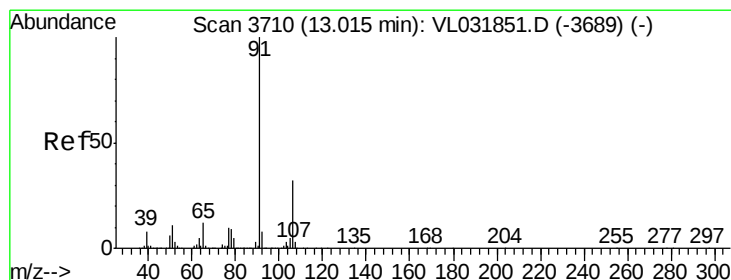
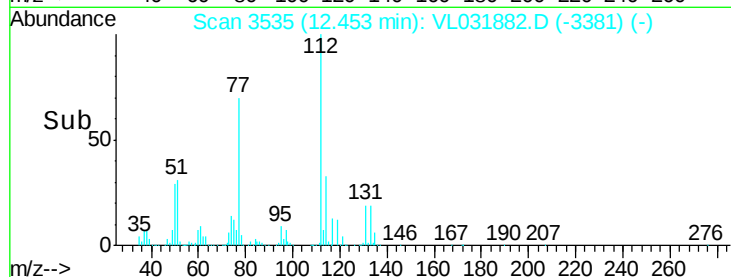
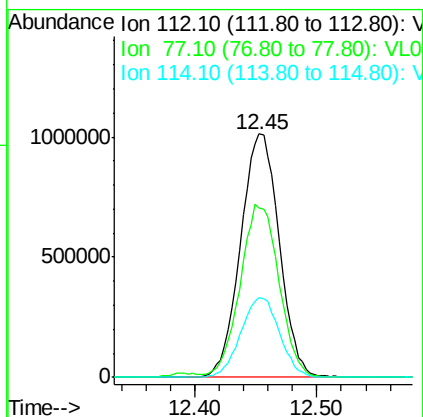
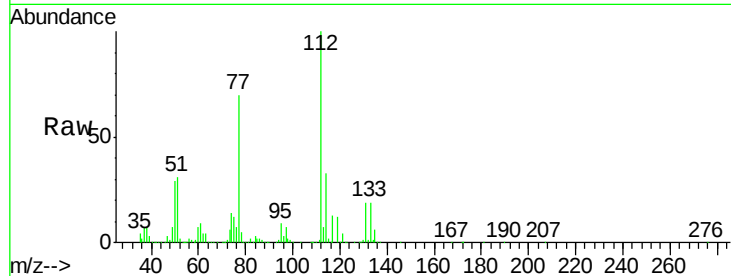




#57
Chlorobenzene
Concen: 7.29 ppbv
RT: 12.45 min Scan# 3535
Delta R.T. -0.00 min
Lab File: VL031882.D
Acq: 19 Apr 2018 17:53

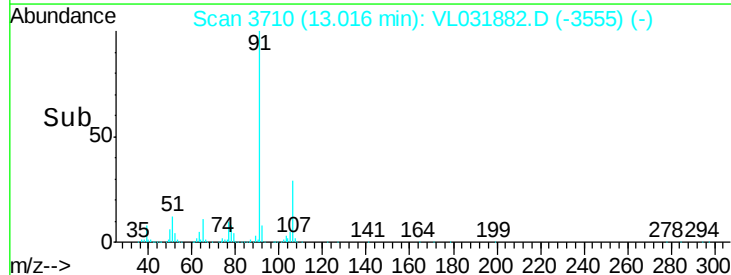
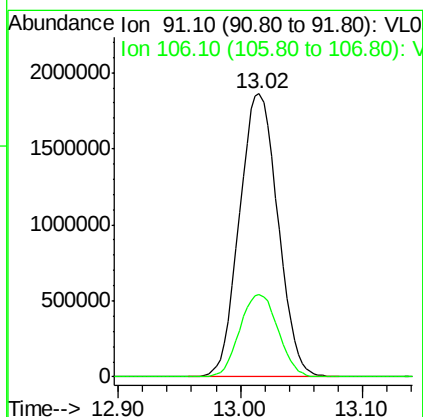
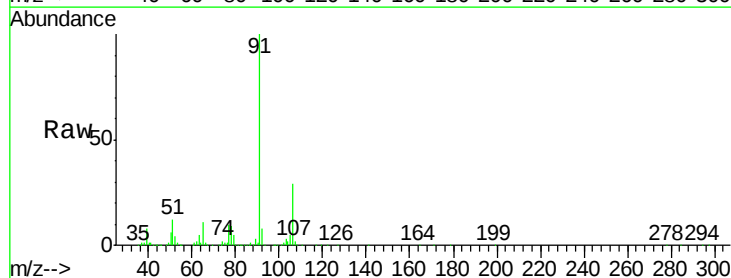
Instrument :
MSVOA_L
ClientSampleId :
VL0419ABS01

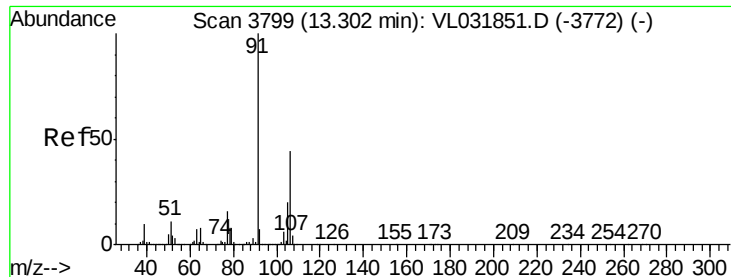
Tgt Ion: 112 Resp: 2210254
Ion Ratio Lower Upper
112 100
77 69.3 57.0 85.6
114 32.6 28.5 34.9



#58
Ethyl Benzene
Concen: 8.15 ppbv
RT: 13.02 min Scan# 3710
Delta R.T. -0.00 min
Lab File: VL031882.D
Acq: 19 Apr 2018 17:53

Tgt Ion: 91 Resp: 4046819
Ion Ratio Lower Upper
91 100
106 29.2 23.8 35.6





#59

m/p-Xylene

Concen: 7.94 ppbv

RT: 13.30 min Scan# 3798

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

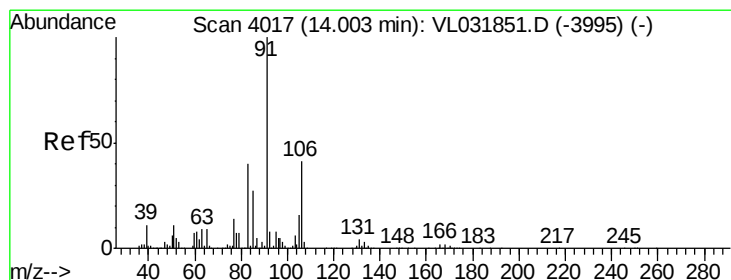
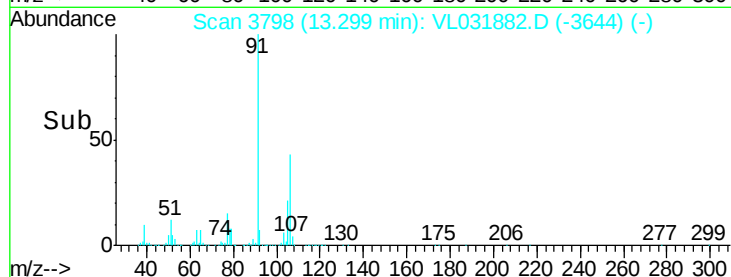
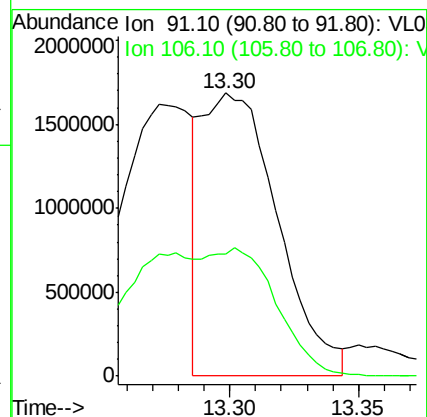
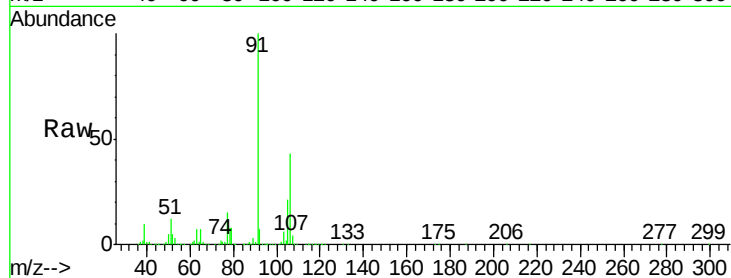
VL0419ABS01

Tgt Ion: 91 Resp: 3424535

Ion Ratio Lower Upper

91 100

106 86.1 35.5 53.3#



#60

o-Xylene

Concen: 7.94 ppbv

RT: 14.00 min Scan# 4017

Delta R.T. -0.00 min

Lab File: VL031882.D

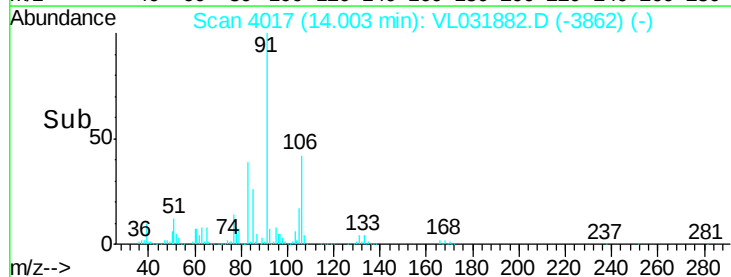
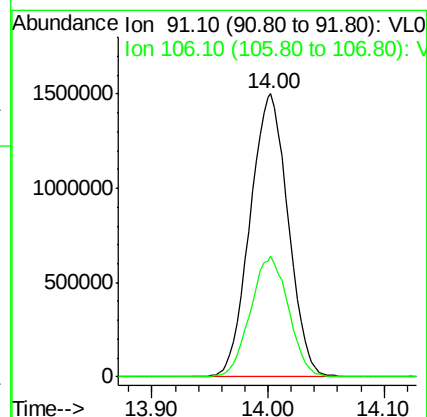
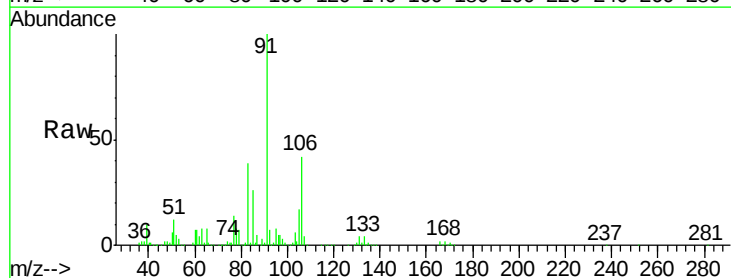
Acq: 19 Apr 2018 17:53

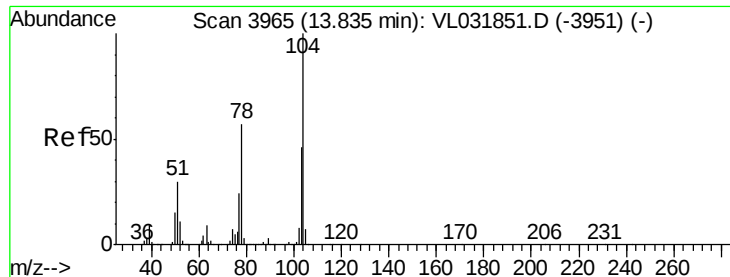
Tgt Ion: 91 Resp: 3421335

Ion Ratio Lower Upper

91 100

106 42.4 21.3 63.9





#61

Styrene

Concen: 9.07 ppbv

RT: 13.84 min Scan# 3965

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

VL0419ABS01

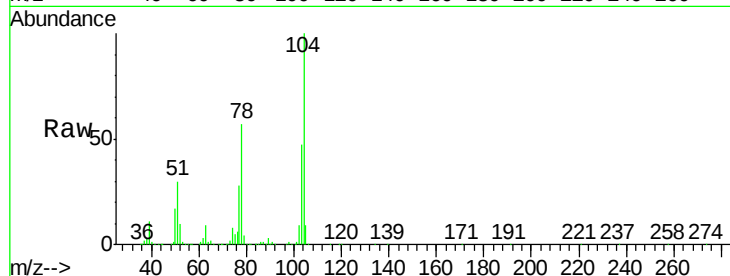
Tgt Ion:104 Resp: 744009

Ion Ratio Lower Upper

104 100

78 55.3 44.4 66.6

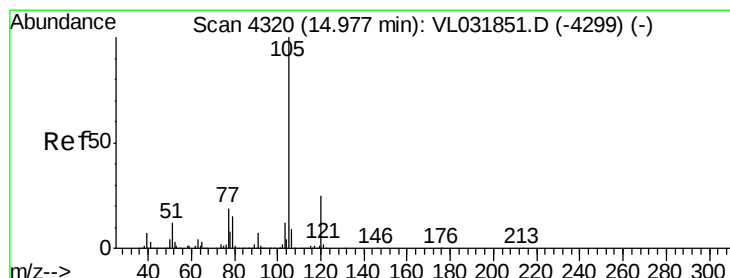
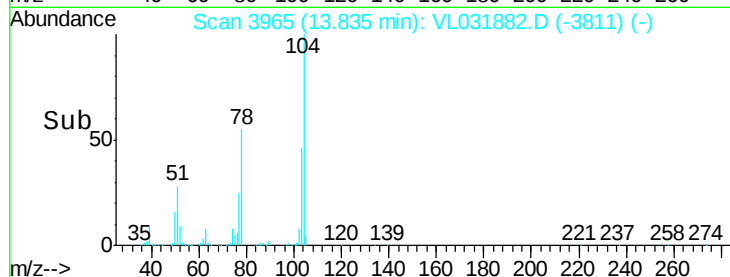
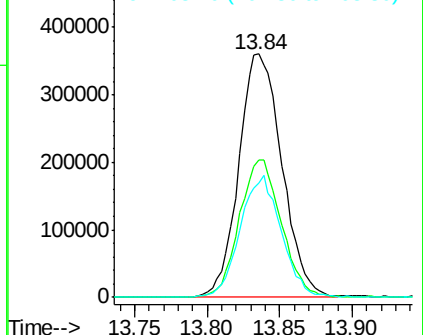
103 47.8 37.9 56.9



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: 7.70 ppbv

RT: 14.98 min Scan# 4320

Delta R.T. -0.00 min

Lab File: VL031882.D

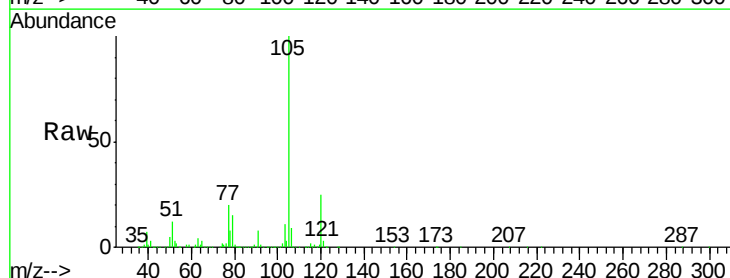
Acq: 19 Apr 2018 17:53

Tgt Ion:105 Resp: 4259841

Ion Ratio Lower Upper

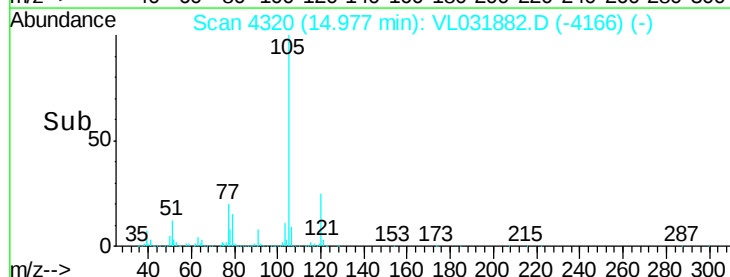
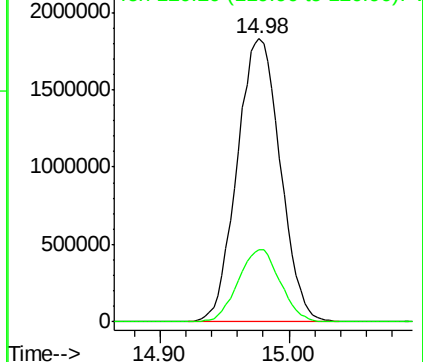
105 100

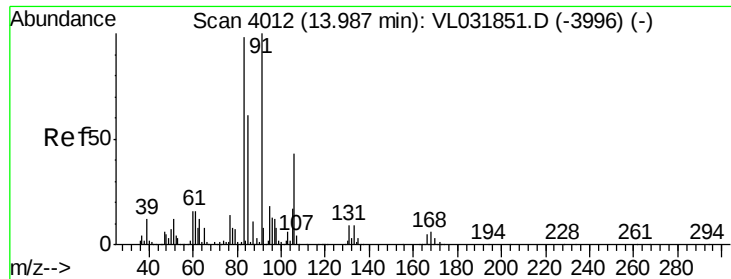
120 24.9 19.4 29.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

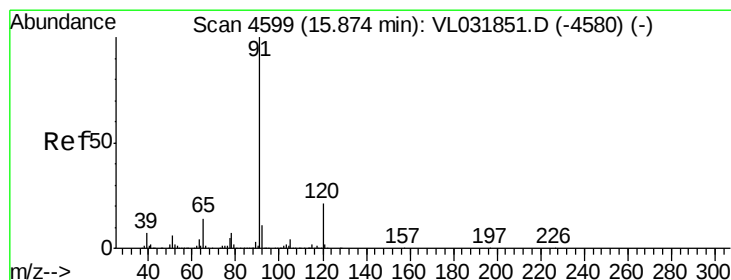
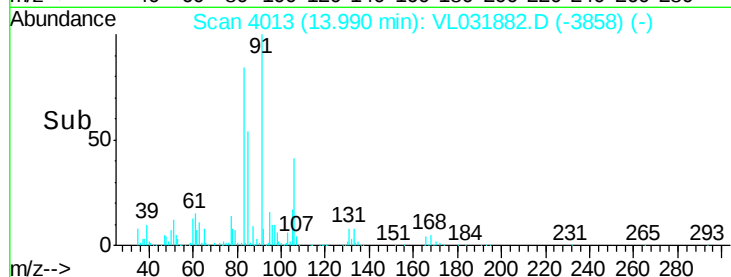
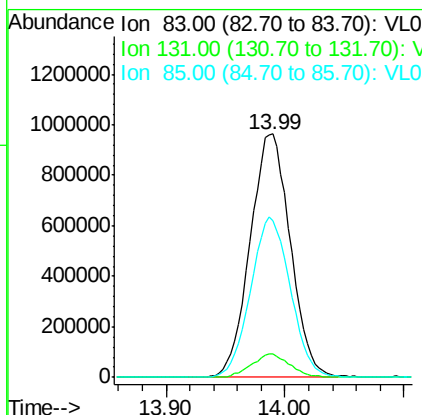
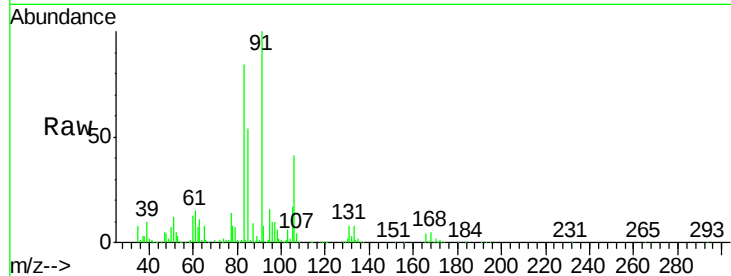




#63
 1,1,2,2-Tetrachloroethane
 Concen: 6.80 ppbv
 RT: 13.99 min Scan# 4013
 Delta R.T. -0.00 min
 Lab File: VL031882.D
 Acq: 19 Apr 2018 17:53

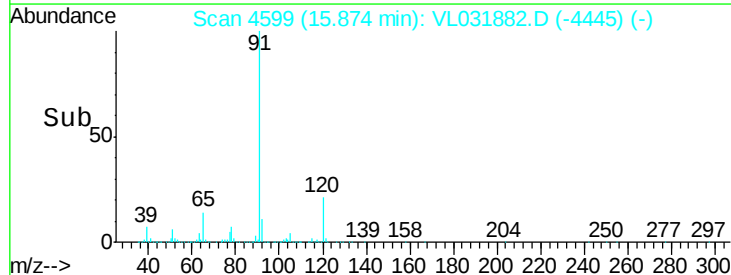
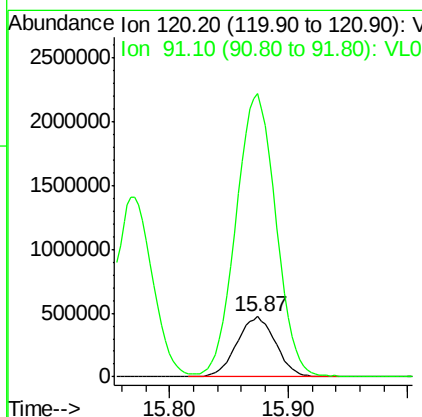
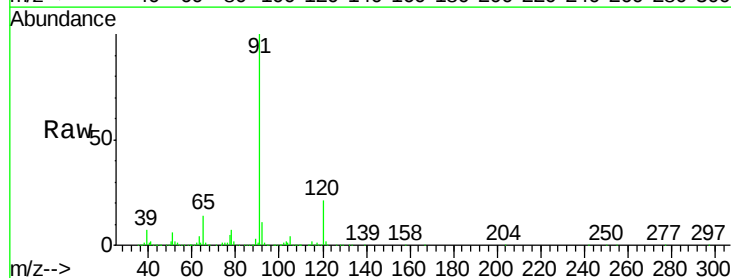
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0419ABS01

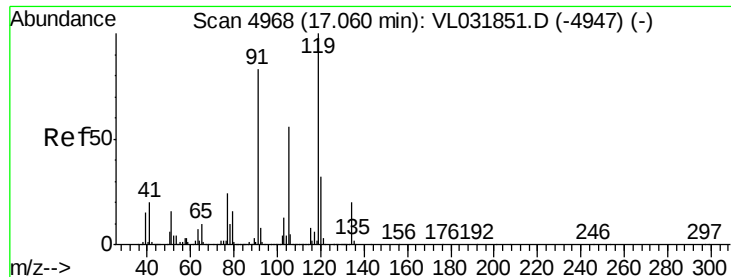
Tgt Ion: 83 Resp: 2251679
 Ion Ratio Lower Upper
 83 100
 131 9.2 4.9 14.6
 85 65.4 32.2 96.6



#64
 n-propylbenzene
 Concen: 7.86 ppbv
 RT: 15.87 min Scan# 4599
 Delta R.T. -0.00 min
 Lab File: VL031882.D
 Acq: 19 Apr 2018 17:53

Tgt Ion: 120 Resp: 1057883
 Ion Ratio Lower Upper
 120 100
 91 489.0 393.7 590.5





#65

tert-Butylbenzene

Concen: 7.73 ppbv

RT: 17.06 min Scan# 4968

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

VL0419ABS01

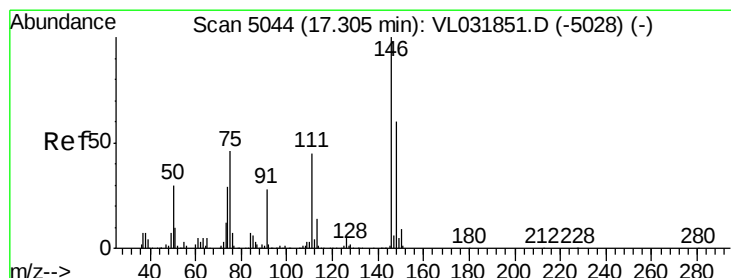
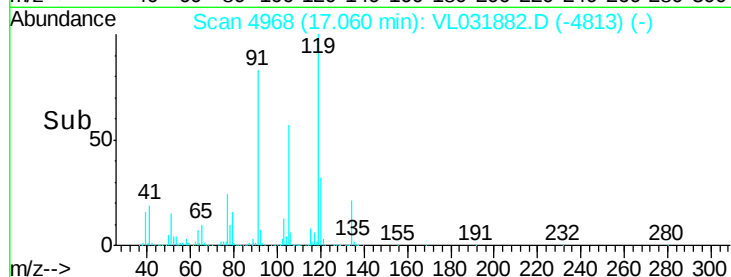
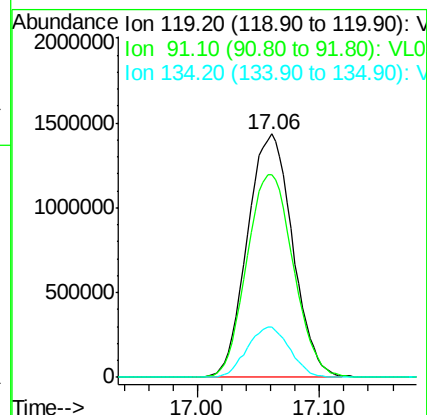
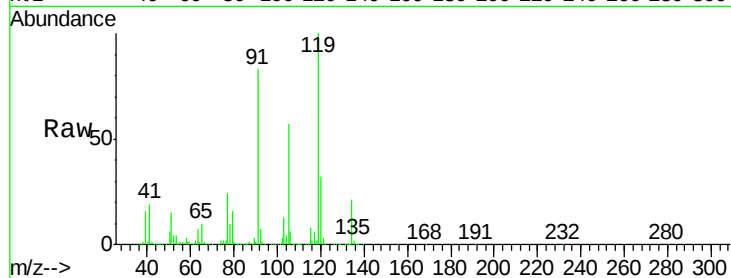
Tgt Ion:119 Resp: 3678803

Ion Ratio Lower Upper

119 100

91 86.2 69.4 104.0

134 19.6 15.4 23.2



#66

Benzyl Chloride

Concen: 9.77 ppbv

RT: 17.30 min Scan# 5044

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

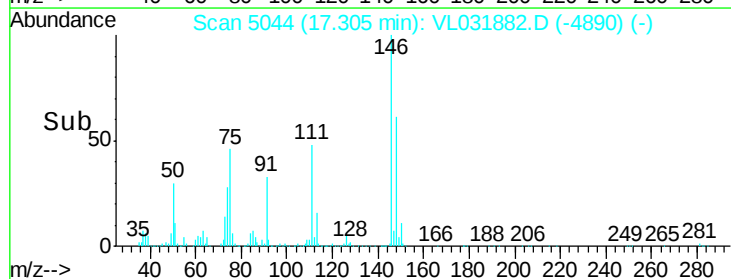
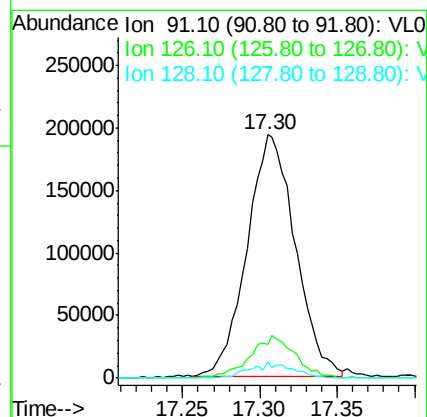
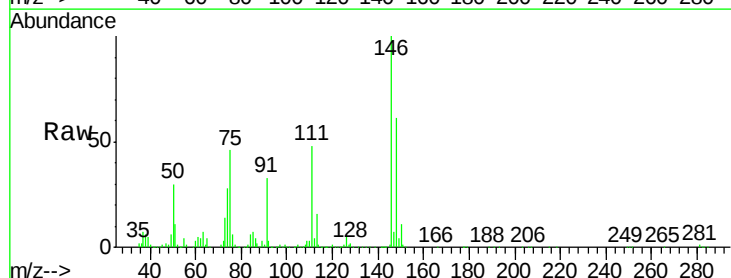
Tgt Ion: 91 Resp: 419261

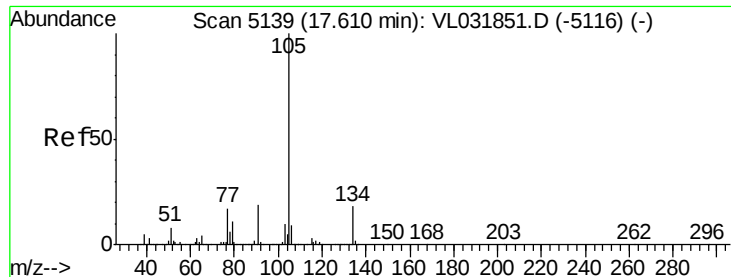
Ion Ratio Lower Upper

91 100

126 16.9 12.6 19.0

128 5.9 4.0 6.0

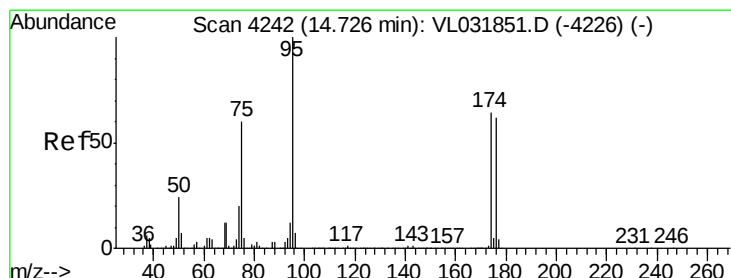
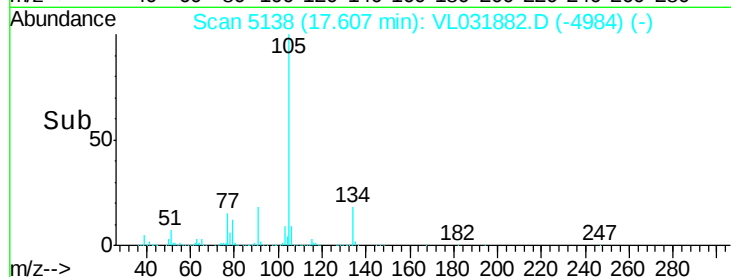
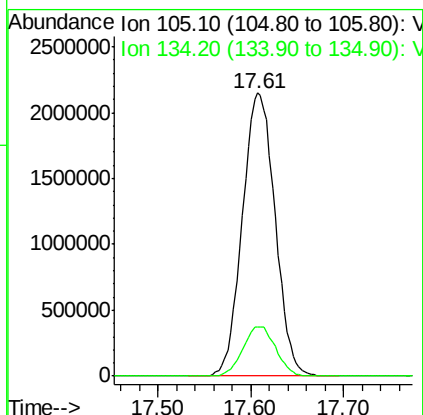
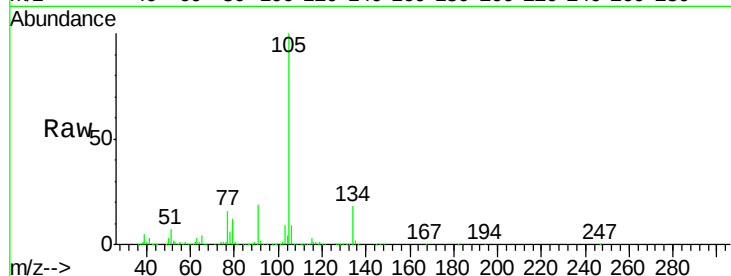




#67
 sec-Butylbenzene
 Concen: 7.67 ppbv
 RT: 17.61 min Scan# 5138
 Delta R.T. -0.00 min
 Lab File: VL031882.D
 Acq: 19 Apr 2018 17:53

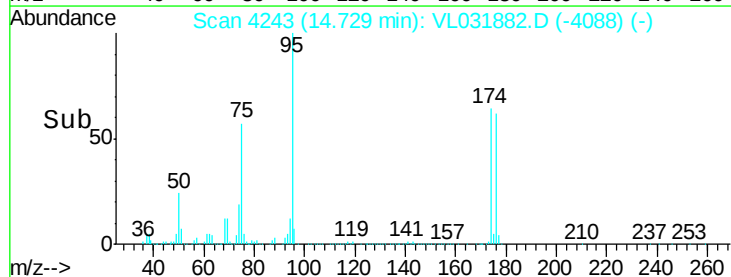
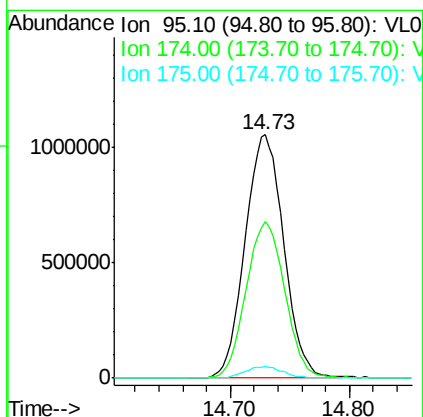
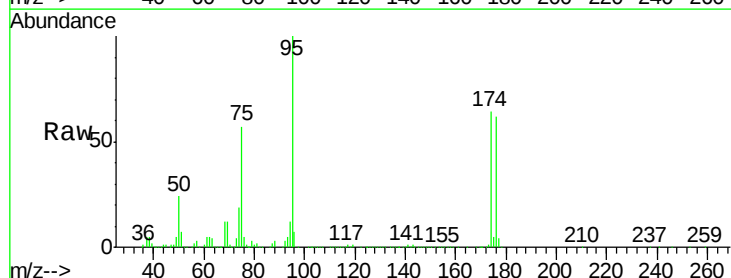
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0419ABS01

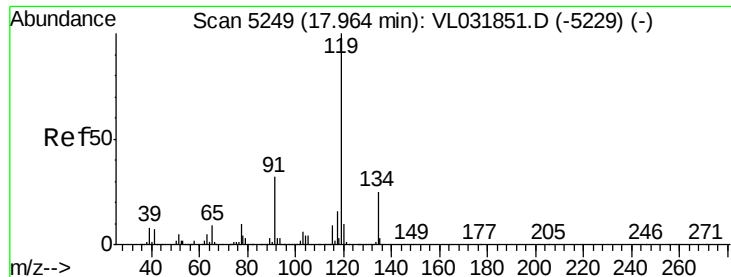
Tgt Ion: 105 Resp: 5262843
 Ion Ratio Lower Upper
 105 100
 134 17.6 14.2 21.2



#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.26 ppbv
 RT: 14.73 min Scan# 4243
 Delta R.T. -0.00 min
 Lab File: VL031882.D
 Acq: 19 Apr 2018 17:53

Tgt Ion: 95 Resp: 2373804
 Ion Ratio Lower Upper
 95 100
 174 64.7 52.3 78.5
 175 4.7 3.9 5.9

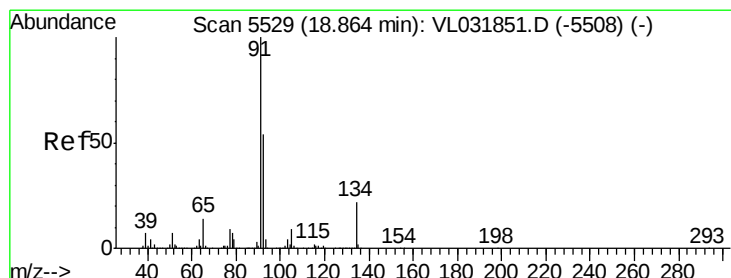
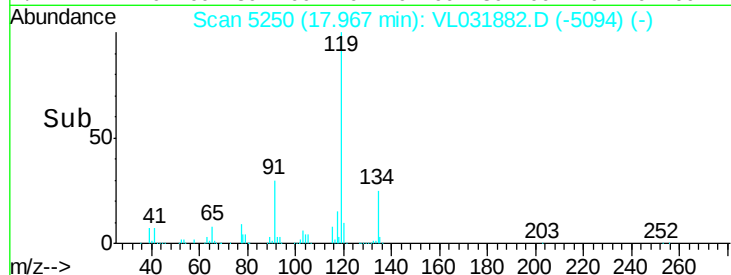
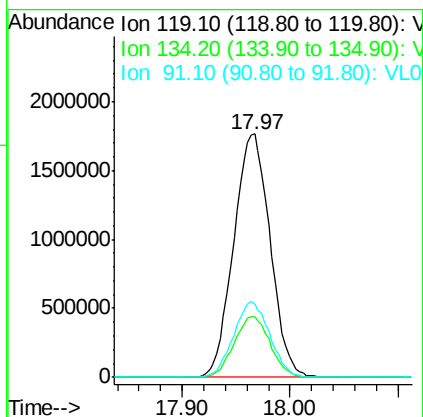
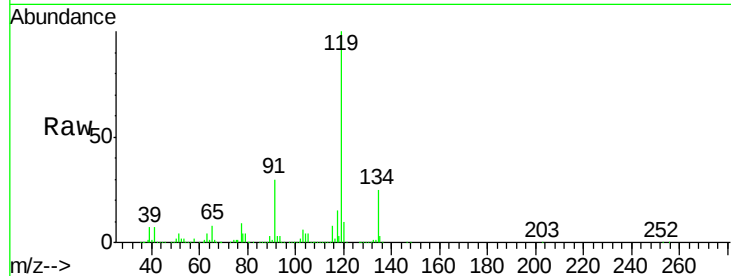




#69
p-Isopropyltoluene
Concen: 7.80 ppbv
RT: 17.97 min Scan# 5250
Delta R.T. 0.00 min
Lab File: VL031882.D
Acq: 19 Apr 2018 17:53

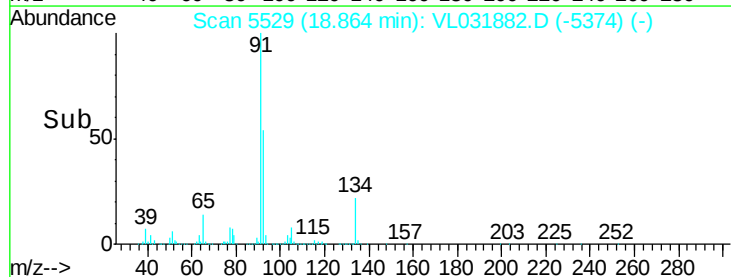
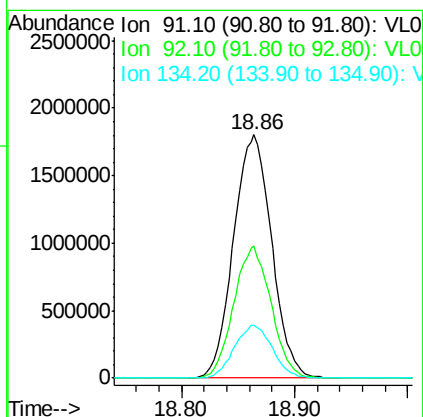
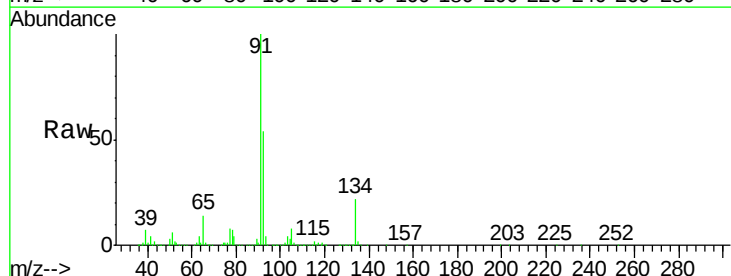
Instrument :
MSVOA_L
ClientSampleId :
VL0419ABS01

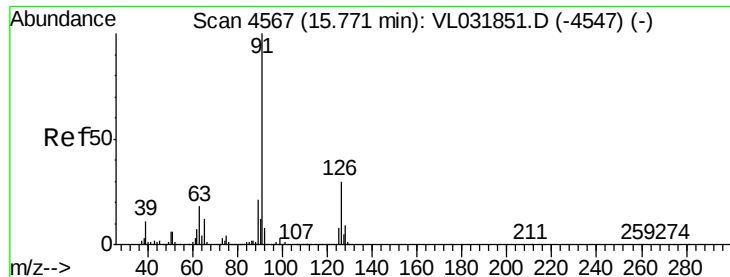
Tgt Ion: 119 Resp: 4147411
Ion Ratio Lower Upper
119 100
134 24.7 20.0 30.0
91 31.0 24.9 37.3



#70
n-Butylbenzene
Concen: 7.63 ppbv
RT: 18.86 min Scan# 5529
Delta R.T. -0.00 min
Lab File: VL031882.D
Acq: 19 Apr 2018 17:53

Tgt Ion: 91 Resp: 4224779
Ion Ratio Lower Upper
91 100
92 53.1 42.2 63.4
134 21.7 17.4 26.0





#71

2-Chlorotoluene

Concen: 7.97 ppbv

RT: 15.77 min Scan# 4567

Delta R.T. 0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

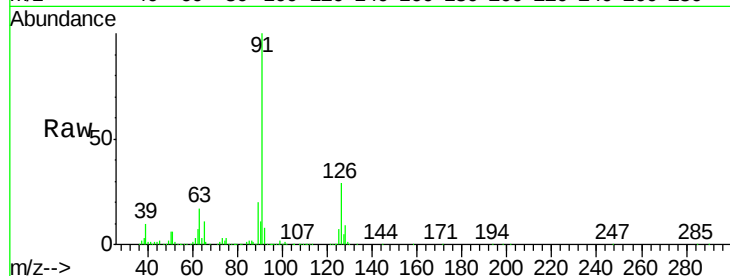
VL0419ABS01

Tgt Ion: 91 Resp: 3190151

Ion Ratio Lower Upper

91 100

126 29.0 11.6 46.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

2500000

2000000

1500000

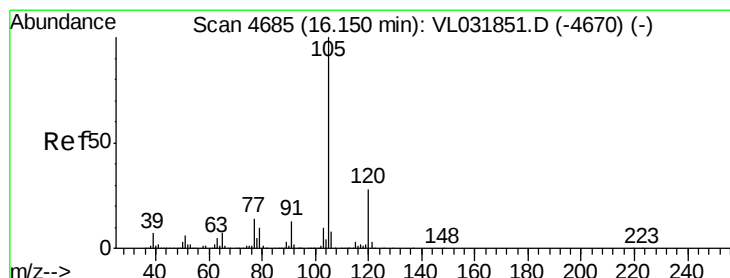
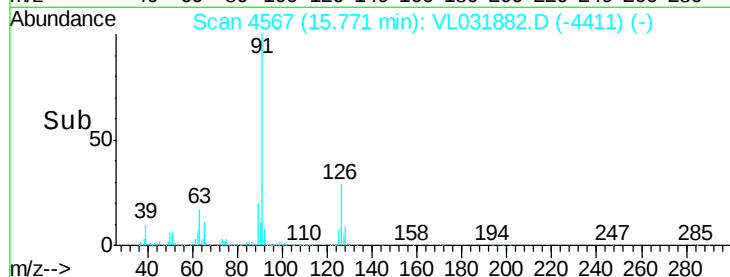
1000000

500000

0

15.70 15.80

Time-->



#72

4-Ethyltoluene

Concen: 7.82 ppbv

RT: 16.15 min Scan# 4685

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Tgt Ion: 105 Resp: 3442986

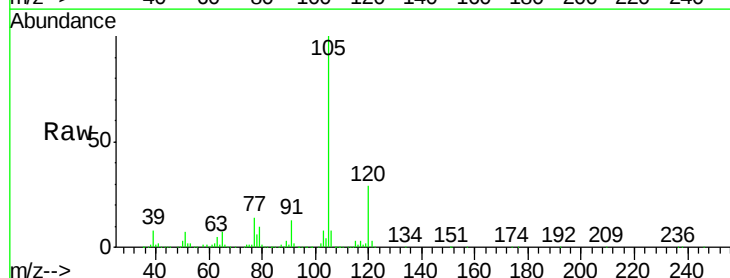
Ion Ratio Lower Upper

105 100

120 28.3 22.7 34.1

91 13.4 10.6 16.0

77 14.3 11.4 17.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

2000000

1500000

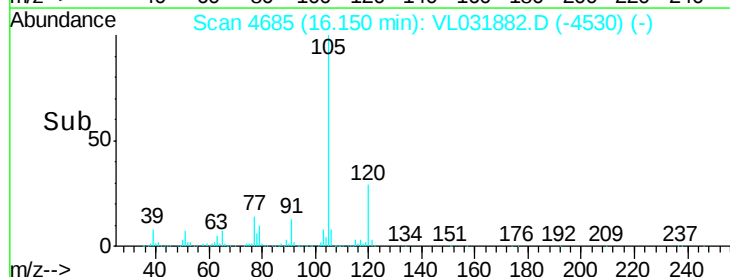
1000000

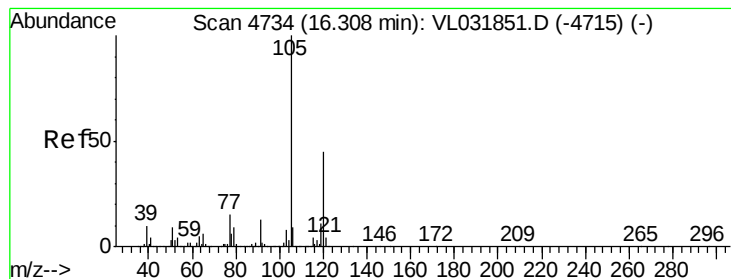
500000

0

16.10 16.15 16.20

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 7.73 ppbv

RT: 16.31 min Scan# 4734

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

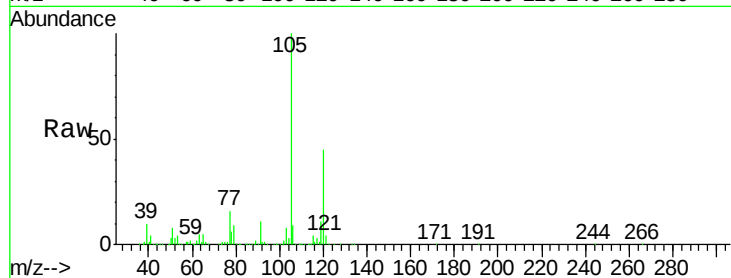
VL0419ABS01

Tgt Ion:105 Resp: 3116045

Ion Ratio Lower Upper

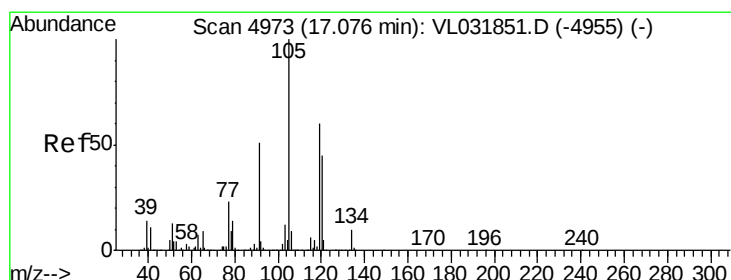
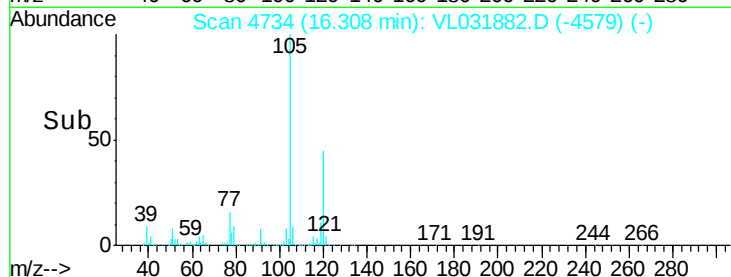
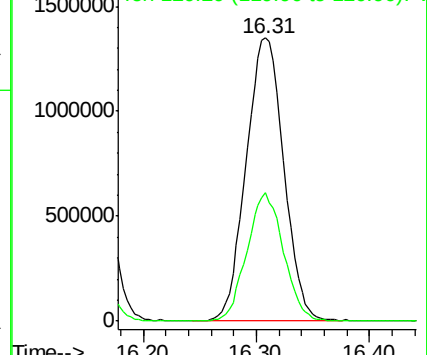
105 100

120 45.2 35.3 52.9



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: 7.36 ppbv

RT: 17.08 min Scan# 4973

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Tgt Ion:105 Resp: 3311868

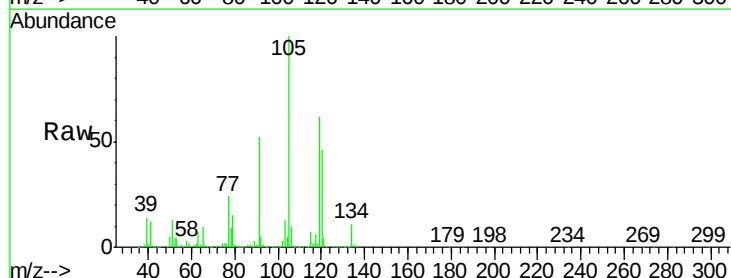
Ion Ratio Lower Upper

105 100

120 45.7 37.0 55.4

91 52.0 43.0 64.4

77 23.5 18.7 28.1

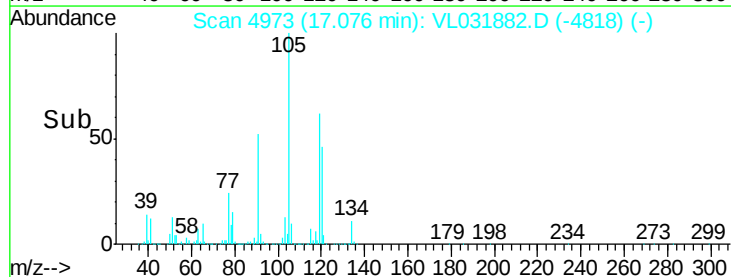
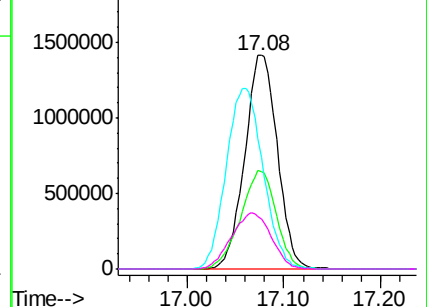


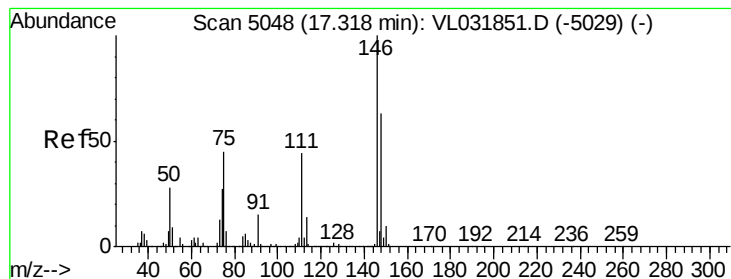
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 7.21 ppbv

RT: 17.32 min Scan# 5049

Delta R.T. 0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

VL0419ABS01

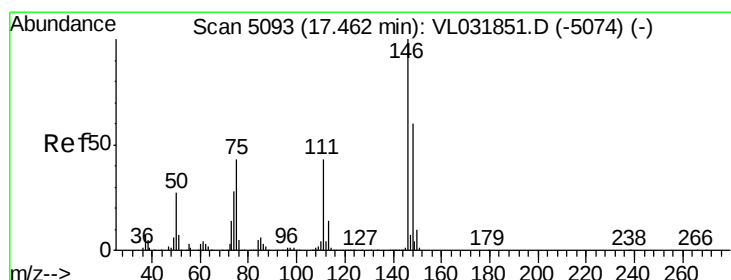
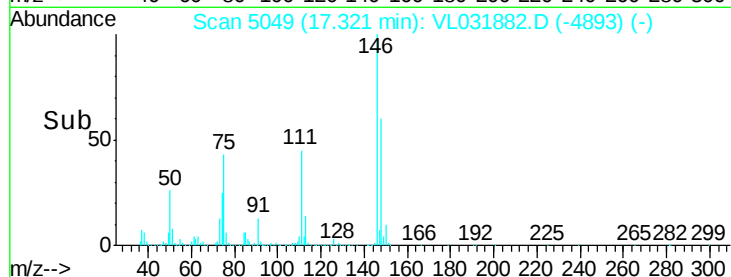
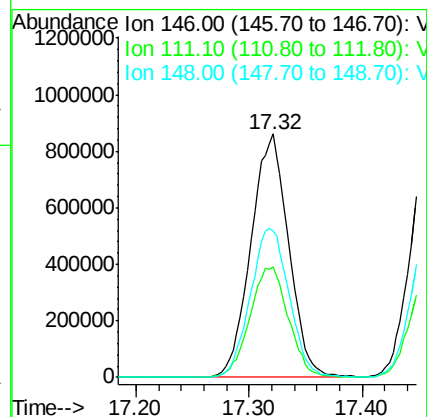
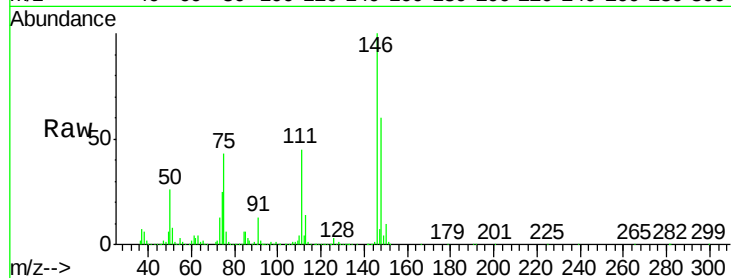
Tgt Ion:146 Resp: 1989399

Ion Ratio Lower Upper

146 100

111 46.7 23.8 71.4

148 63.3 32.0 96.2



#76

1,4-Dichlorobenzene

Concen: 7.44 ppbv

RT: 17.46 min Scan# 5093

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

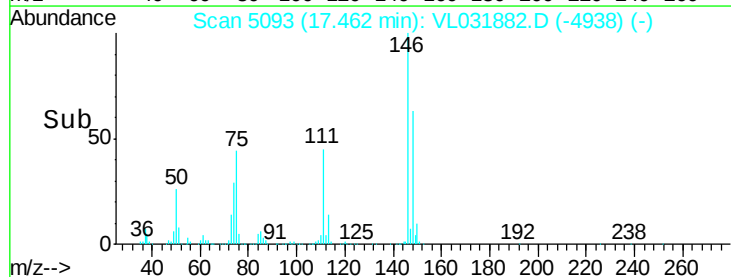
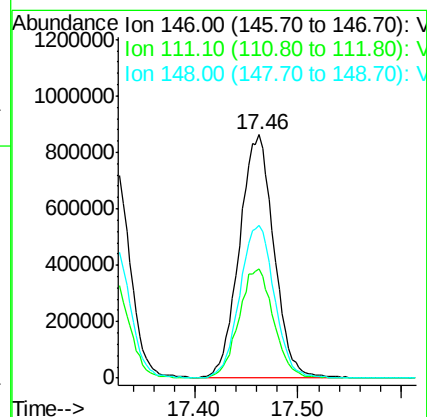
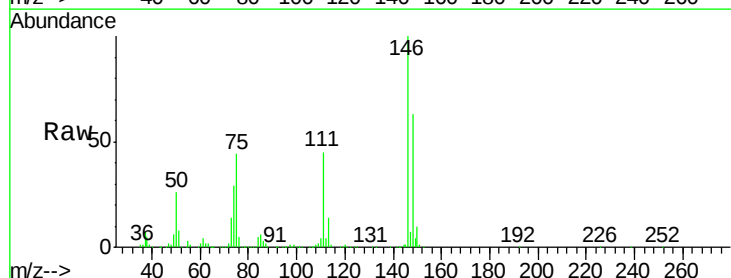
Tgt Ion:146 Resp: 1992509

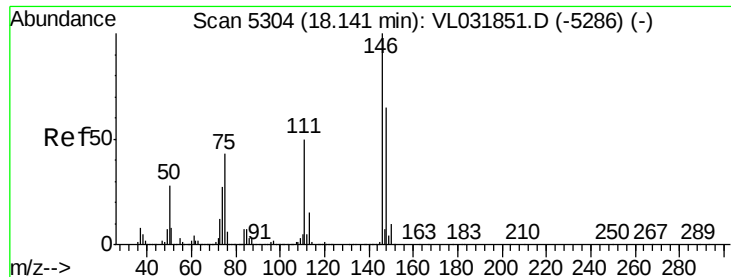
Ion Ratio Lower Upper

146 100

111 45.5 22.9 68.7

148 63.8 32.0 96.0





#77

1,2-Dichlorobenzene

Concen: 7.30 ppbv

RT: 18.14 min Scan# 5304

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

VL0419ABS01

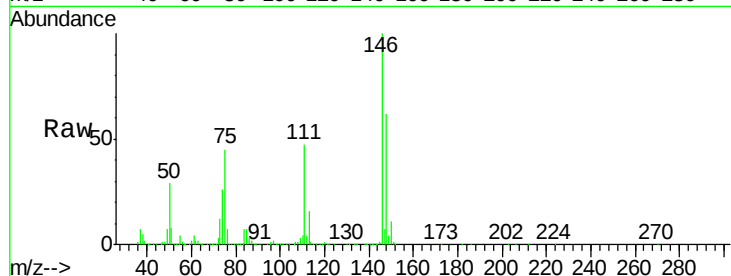
Tgt Ion:146 Resp: 1985258

Ion Ratio Lower Upper

146 100

111 48.3 24.3 72.8

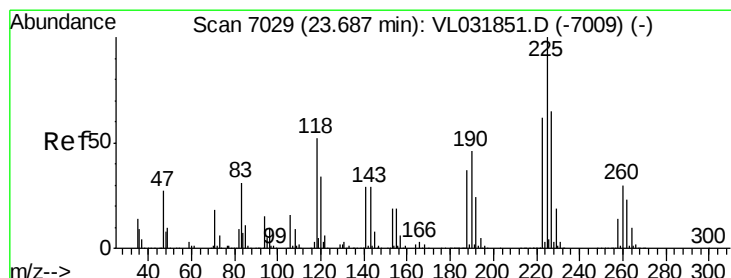
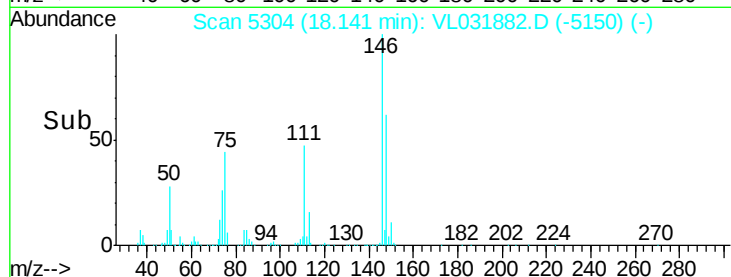
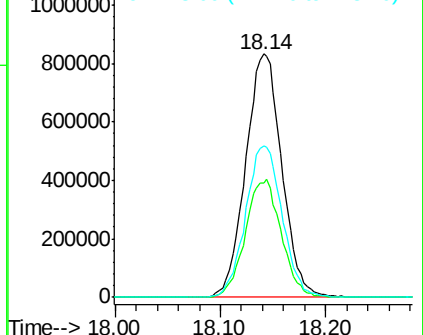
148 63.0 31.8 95.3



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: 6.01 ppbv

RT: 23.68 min Scan# 7028

Delta R.T. -0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

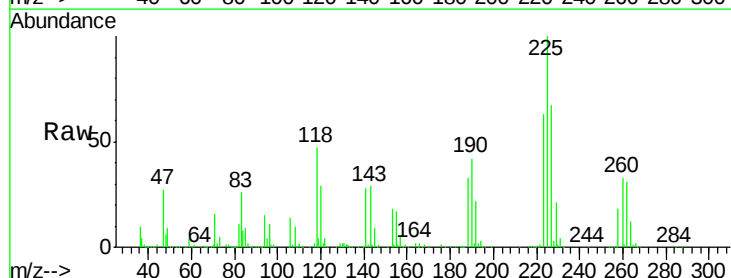
Tgt Ion:225 Resp: 627519

Ion Ratio Lower Upper

225 100

223 63.4 50.6 76.0

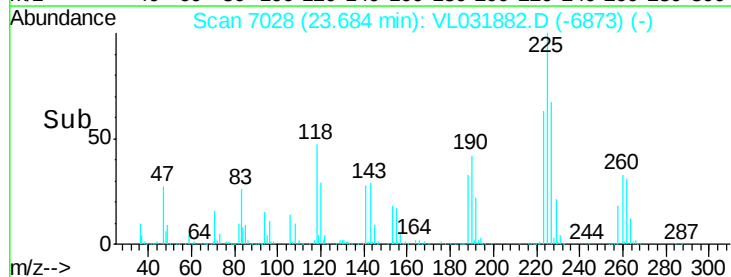
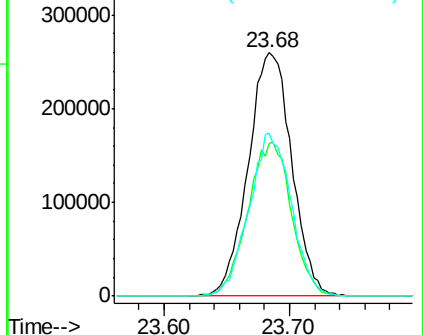
227 65.0 52.2 78.4

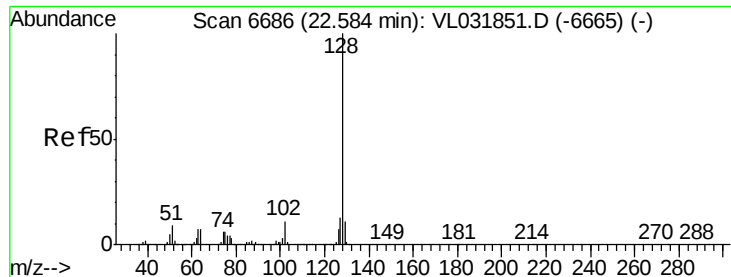


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

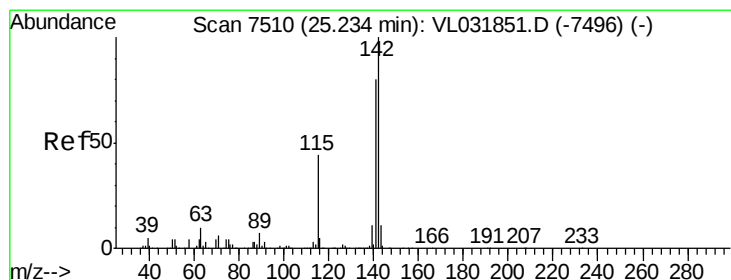
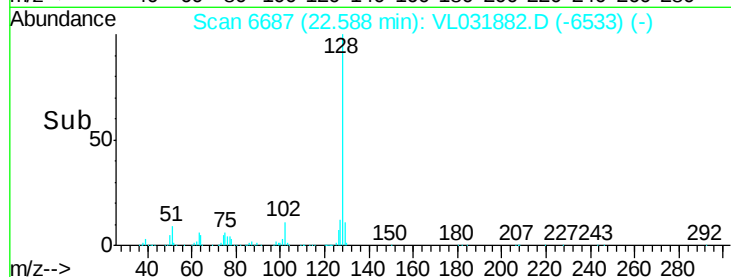
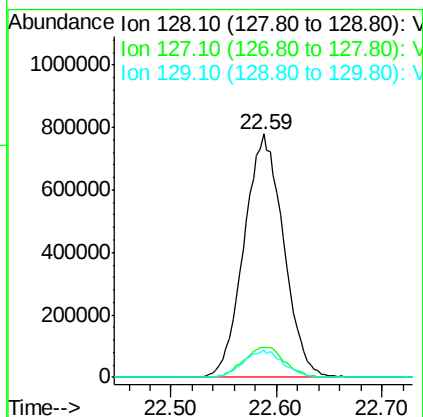
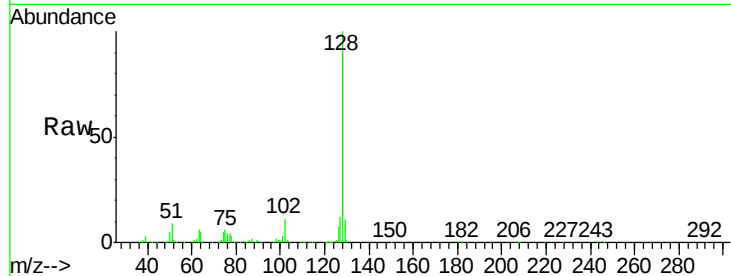




#79
Naphthalene
Concen: 7.98 ppbv
RT: 22.59 min Scan# 6687
Delta R.T. -0.00 min
Lab File: VL031882.D
Acq: 19 Apr 2018 17:53

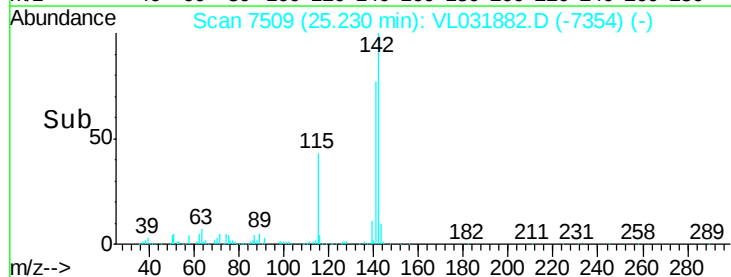
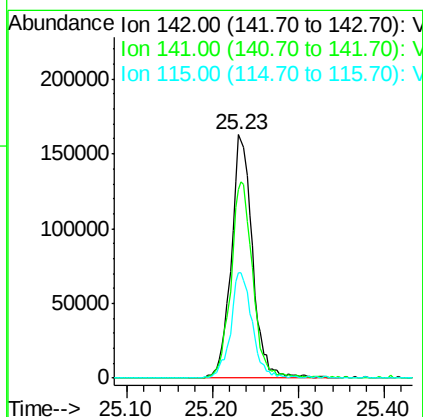
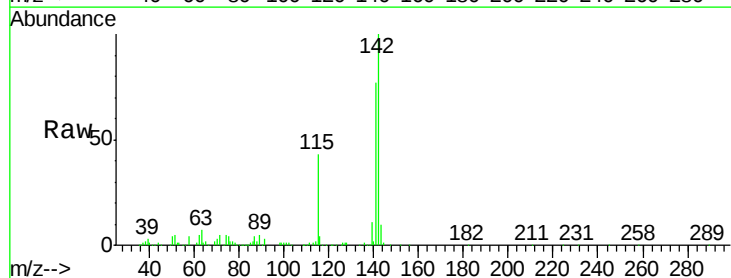
Instrument :
MSVOA_L
ClientSampleId :
VL0419ABS01

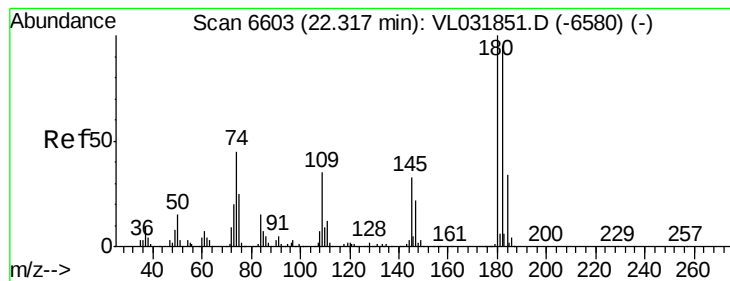
Tgt Ion:128 Resp: 2022501
Ion Ratio Lower Upper
128 100
127 12.2 10.2 15.4
129 11.2 9.4 14.2



#80
Naphthalene, 2-methyl-
Concen: 5.66 ppbv
RT: 25.23 min Scan# 7509
Delta R.T. -0.00 min
Lab File: VL031882.D
Acq: 19 Apr 2018 17:53

Tgt Ion:142 Resp: 279908
Ion Ratio Lower Upper
142 100
141 82.6 67.0 100.4
115 44.4 35.3 52.9





#81

1,2,4-Trichlorobenzene

Concen: 7.26 ppbv

RT: 22.31 min Scan# 6602

Delta R.T. 0.00 min

Lab File: VL031882.D

Acq: 19 Apr 2018 17:53

Instrument :

MSVOA_L

ClientSampleId :

VL0419ABS01

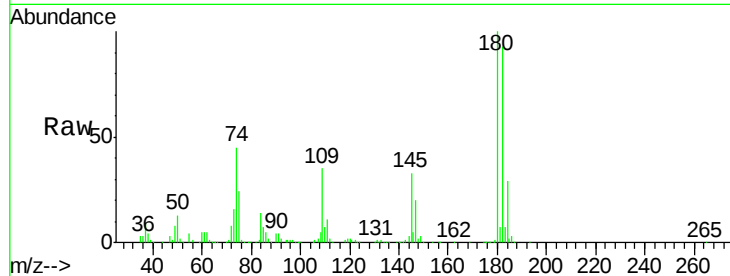
Tgt Ion:180 Resp: 1020869

Ion Ratio Lower Upper

180 100

182 96.5 76.3 114.5

184 30.4 24.2 36.2



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

