

Data File : VL031857.D

Acq On : 12 Apr 2018 4:07

Operator : SY/AP

Sample : VSTDIC015

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Quant Time: Apr 12 04:51:04 2018

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL041218AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr 12 04:17:02 2018

QLast Update : Thu Apr 12 04:17:02 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1358410	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2847652	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	3266569	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.73	95	2427852	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.16	85	3076924	12.13	ppbv	97
3) Chlorodifluoromethane	3.10	51	1567097	8.99	ppbv	98
4) Chloromethane	3.26	50	930249	10.67	ppbv	99
5) Vinyl Chloride	3.39	62	990535	11.29	ppbv	96
6) Bromomethane	3.61	94	700680	11.67	ppbv	96
7) Chloroethane	3.70	64	414222	11.42	ppbv	99
8) Dichlorotetrafluoroethane	3.31	85	2541620	10.88	ppbv	99
9) Propene	3.12	41	698869	10.10	ppbv	100
10) Heptane	8.39	43	2363183	11.45	ppbv	99
11) Trichlorofluoromethane	4.11	101	3333064	13.12	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.67	101	2138392	12.72	ppbv	98
13) Ethanol	3.75	45	184292	8.40	ppbv	100
14) Bromoethene	3.89	108	787821	11.50	ppbv	98
15) Acetone	4.01	43	2203870	9.65	ppbv	99
16) 1,3-Butadiene	3.46	39	875999	10.61	ppbv	95
17) tert-Butyl alcohol	4.47	59	882933	8.52	ppbv	99
18) 1,1-Dichloroethene	4.46	96	977508	12.87	ppbv	98
19) Isopropyl Alcohol	4.13	45	1382515	11.10	ppbv	100
20) Methylene Chloride	4.52	84	899195	11.82	ppbv	97
21) Allyl Chloride	4.59	41	1536751	12.62	ppbv	96
22) trans-1,2-Dichloroethene	5.09	96	1000027	12.32	ppbv	98
23) Vinyl Acetate	5.28	43	2881610	11.56	ppbv	99
24) 1,1-Dichloroethane	5.22	63	2594404	12.29	ppbv	99
25) Ethyl Acetate	5.90	43	4167834	11.84	ppbv	99
26) Hexane	5.91	57	1988429	12.29	ppbv	97
27) Carbon Disulfide	4.74	76	2666473	15.08	ppbv	98
28) Methyl tert-Butyl Ether	5.23	73	2519449	11.50	ppbv	99
29) Chloroform	5.98	83	3183341	12.35	ppbv	97
30) Cyclohexane	7.39	84	1425696	11.03	ppbv	99
31) cis-1,2-Dichloroethene	5.77	61	1916232	12.73	ppbv	100
32) 1,1,1-Trichloroethane	6.76	97	2907062	10.75	ppbv	99
34) 2-Butanone	5.45	43	2664858	13.62	ppbv	100
35) Carbon Tetrachloride	7.28	117	3008003	14.11	ppbv	96
36) Benzene	7.15	78	3500686	13.06	ppbv	98
37) 1,2-Dichloroethane	6.55	62	2426869	13.58	ppbv	99
38) Trichloroethene	8.11	130	1378866	12.71	ppbv	97
39) 1,2-Dichloropropane	7.88	63	1256962	12.97	ppbv	95
40) 1,4-Dioxane	8.10	88	526072	13.52	ppbv	91
41) Tetrahydrofuran	6.28	42	1416479	14.43	ppbv	100
42) Bromodichloromethane	8.06	83	3037481	14.33	ppbv	98
43) Methyl Methacrylate	8.28	69	1328545	14.04	ppbv	99

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Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL041218AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr 12 04:17:02 2018

QLast Update : Thu Apr 12 04:17:02 2018

Response via : Initial Calibration

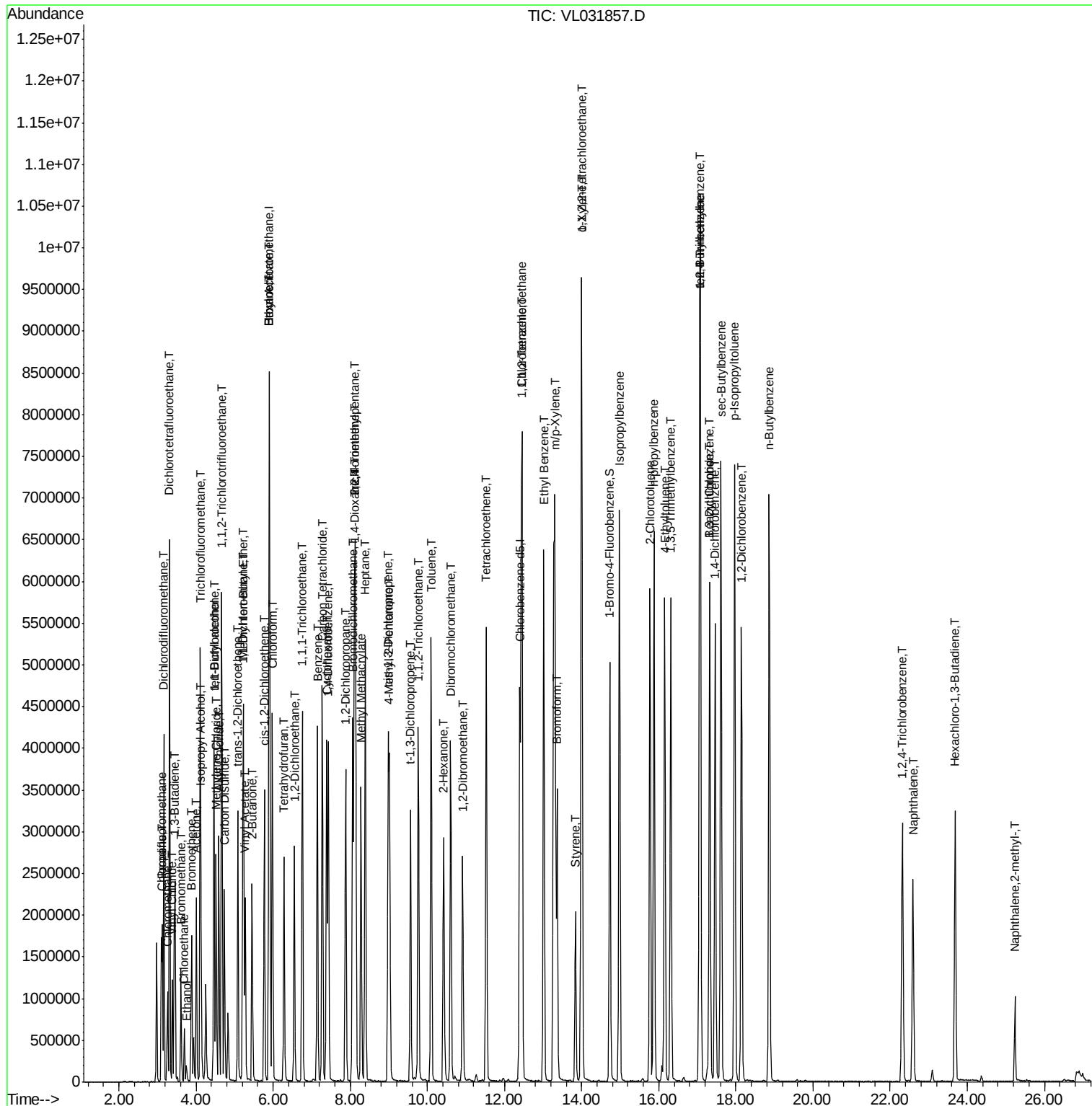
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	5895805	13.51	ppbv	99
45) t-1,3-Dichloropropene	9.57	75	1913267	14.92	ppbv	98
46) cis-1,3-Dichloropropene	8.98	75	2274289	14.19	ppbv	99
47) 1,1,2-Trichloroethane	9.76	97	1502986	13.59	ppbv	99
48) Dibromochloromethane	10.60	129	2561681	14.88	ppbv	100
49) Bromoform	13.36	173	2045980	16.18	ppbv	99
50) 4-Methyl-2-Pentanone	9.02	43	3111995	13.77	ppbv	99
51) 2-Hexanone	10.42	43	2791092	13.35	ppbv	100
52) Tetrachloroethene	11.52	164	1301846	12.04	ppbv	97
53) Toluene	10.10	91	4231961	13.68	ppbv	99
54) 1,2-Dibromoethane	10.91	107	2278904	13.64	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.43	131	1753294	11.65	ppbv #	63
57) Chlorobenzene	12.46	112	3179916	10.84	ppbv	98
58) Ethyl Benzene	13.02	91	5866330	11.27	ppbv	97
59) m/p-Xylene	13.31	91	2720408	6.34	ppbv #	100
60) o-Xylene	14.01	91	4906936	11.32	ppbv	99
61) Styrene	13.84	104	1153381	12.02	ppbv	99
62) Isopropylbenzene	14.98	105	6163971	11.22	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.99	83	3257200	11.50	ppbv	99
64) n-propylbenzene	15.87	120	1553284	11.75	ppbv	95
65) tert-Butylbenzene	17.06	119	5211204	11.08	ppbv	100
66) Benzyl Chloride	17.31	91	635932	15.85	ppbv	99
67) sec-Butylbenzene	17.61	105	7485650	11.41	ppbv	99
69) p-Isopropyltoluene	17.97	119	5943780	11.27	ppbv	100
70) n-Butylbenzene	18.86	91	6048912	11.61	ppbv	100
71) 2-Chlorotoluene	15.77	91	4640644	11.27	ppbv	99
72) 4-Ethyltoluene	16.15	105	5061665	11.64	ppbv	100
73) 1,3,5-Trimethylbenzene	16.31	105	4575901	11.59	ppbv	97
74) 1,2,4-Trimethylbenzene	17.08	105	4700005	11.07	ppbv	99
75) 1,3-Dichlorobenzene	17.32	146	2846640	10.96	ppbv	100
76) 1,4-Dichlorobenzene	17.47	146	2846235	10.78	ppbv	100
77) 1,2-Dichlorobenzene	18.14	146	2833686	11.28	ppbv	100
78) Hexachloro-1,3-Butadiene	23.69	225	858896	8.25	ppbv	99
79) Naphthalene	22.59	128	2983988	11.13	ppbv	98
80) Naphthalene,2-methyl-	25.23	142	479029	7.22	ppbv	99
81) 1,2,4-Trichlorobenzene	22.32	180	1456595	9.94	ppbv	99

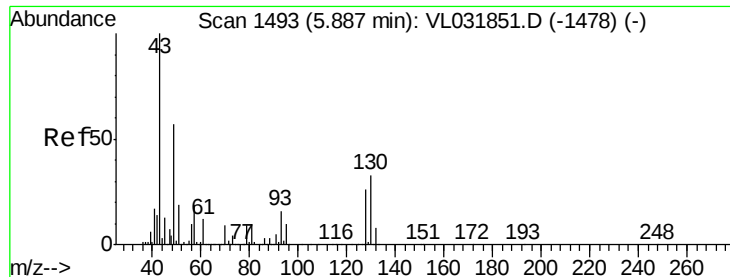
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ALS Vial : 1 Sample Multiplier: 1

VSTDICC015

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.89 min Scan# 1495

Delta R.T. 0.01 min

Lab File: VL031857.D

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VSTDIC015

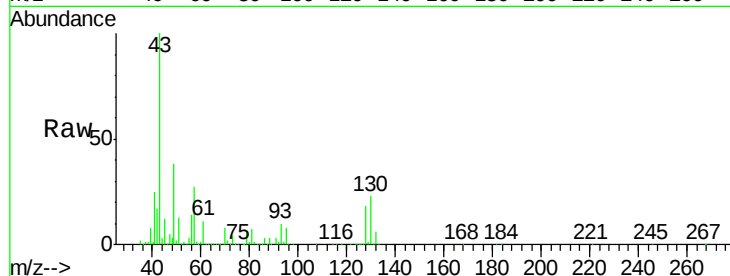
Tgt Ion: 49 Resp: 1358410

Ion Ratio Lower Upper

49 100

128 46.6 23.9 71.8

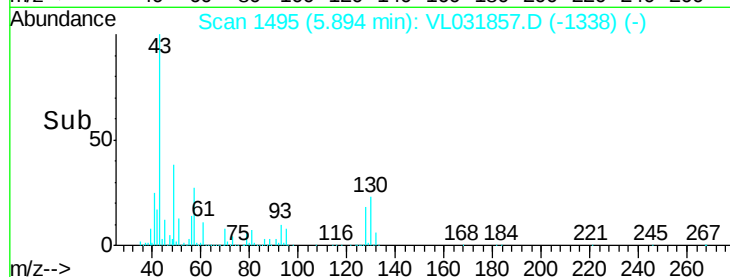
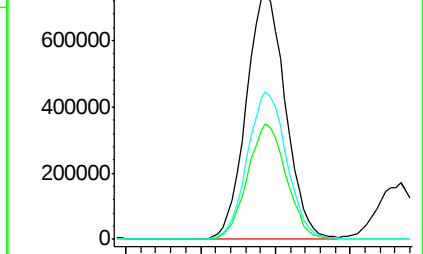
130 60.1 31.1 93.2



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: 12.13 ppbv

RT: 3.16 min Scan# 646

Delta R.T. -0.00 min

Lab File: VL031857.D

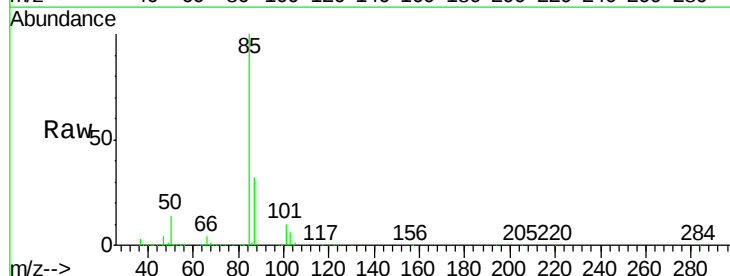
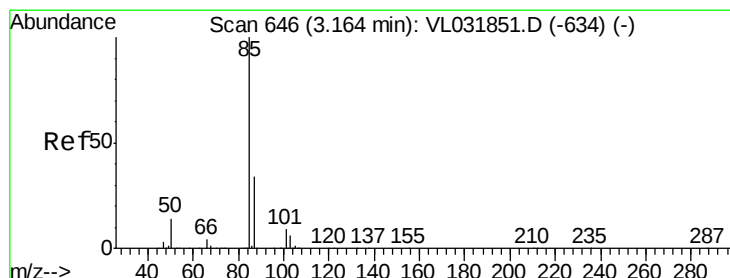
Acq: 12 Apr 2018 4:07

Tgt Ion: 85 Resp: 3076924

Ion Ratio Lower Upper

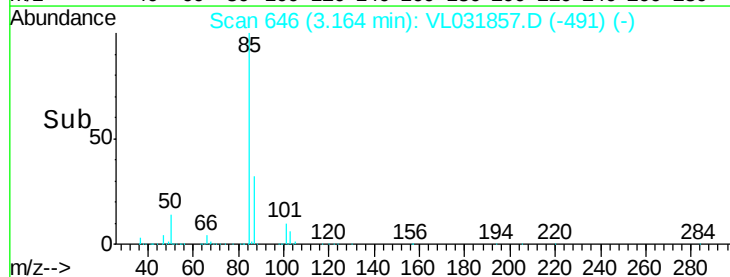
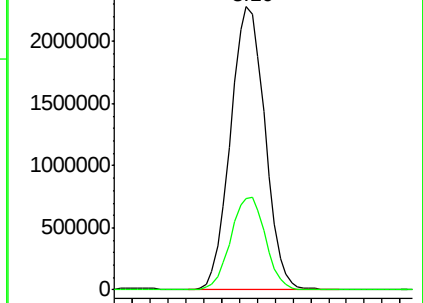
85 100

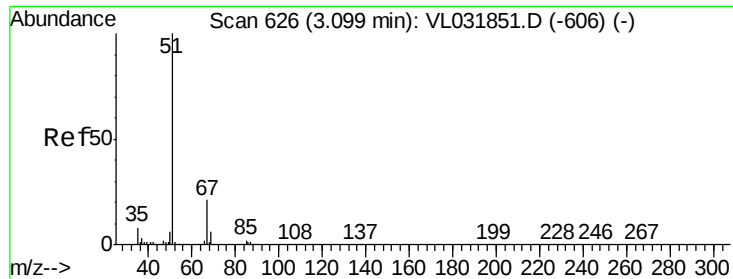
87 32.2 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

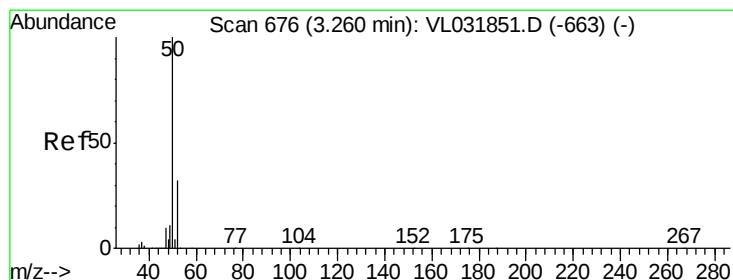
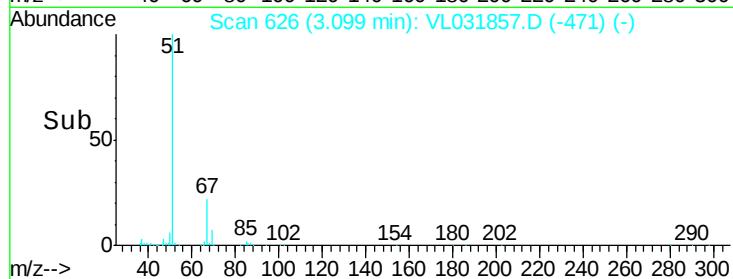
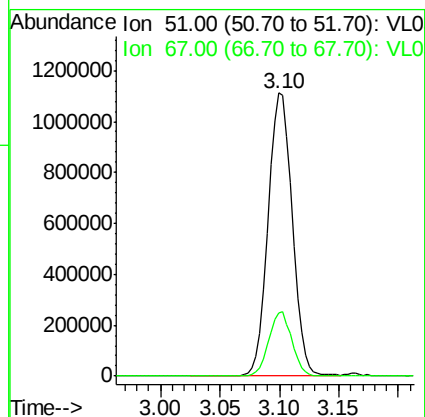
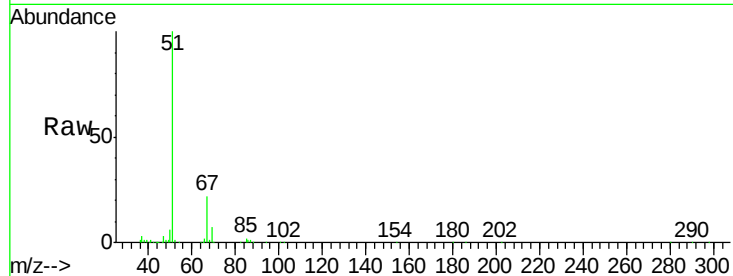




#3
 Chlorodifluoromethane
 Concen: 8.99 ppbv
 RT: 3.10 min Scan# 626
 Delta R.T. -0.00 min
 Lab File: VL031857.D
 Acq: 12 Apr 2018 4:07

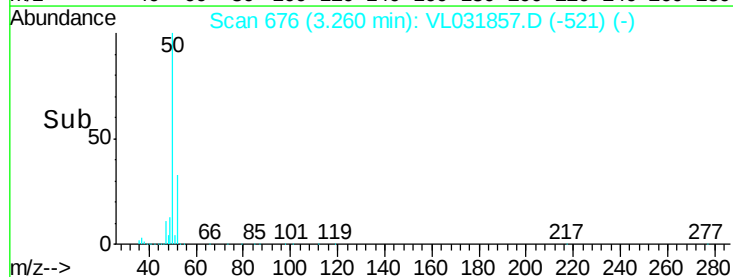
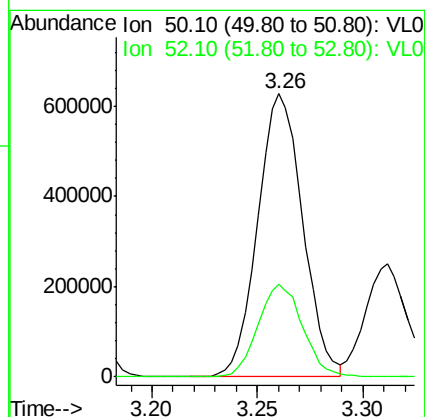
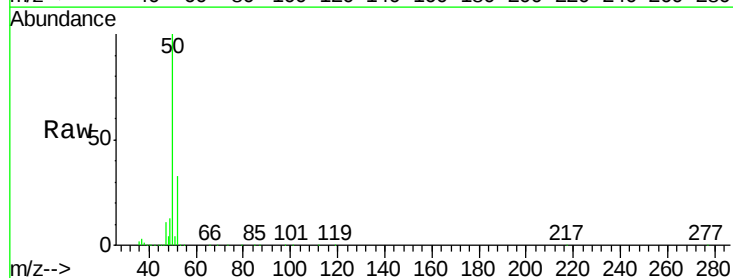
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

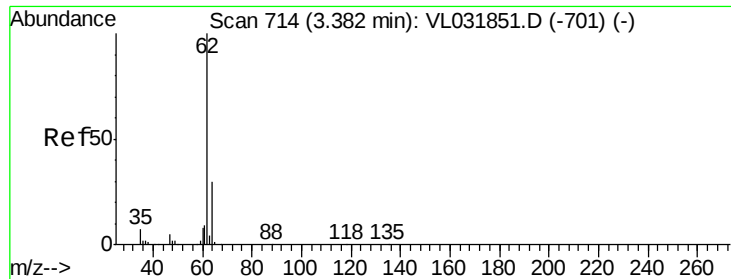
Tgt Ion: 51 Resp: 1567097
 Ion Ratio Lower Upper
 51 100
 67 21.7 16.7 25.1



#4
 Chloromethane
 Concen: 10.67 ppbv
 RT: 3.26 min Scan# 676
 Delta R.T. -0.00 min
 Lab File: VL031857.D
 Acq: 12 Apr 2018 4:07

Tgt Ion: 50 Resp: 930249
 Ion Ratio Lower Upper
 50 100
 52 32.8 26.0 39.0





#5

Vinyl Chloride

Concen: 11.29 ppbv

RT: 3.39 min Scan# 715

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

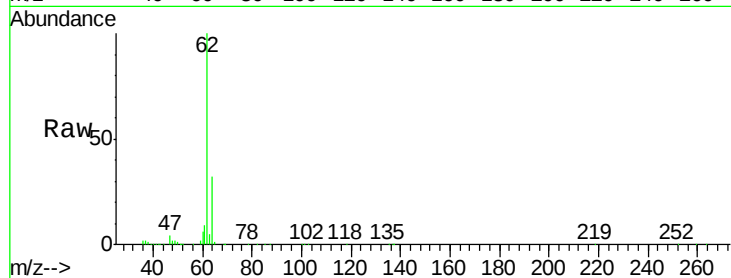
VSTDIC015

Tgt Ion: 62 Resp: 990535

Ion Ratio Lower Upper

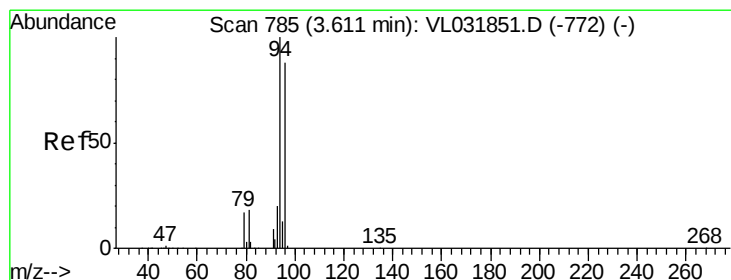
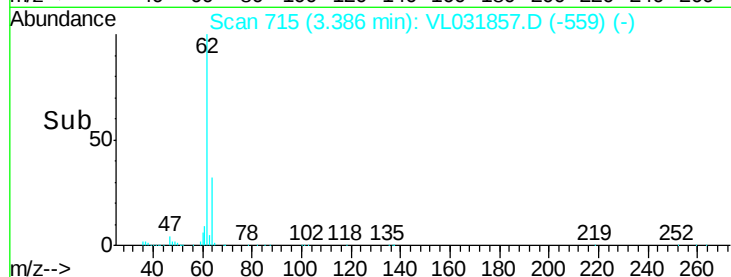
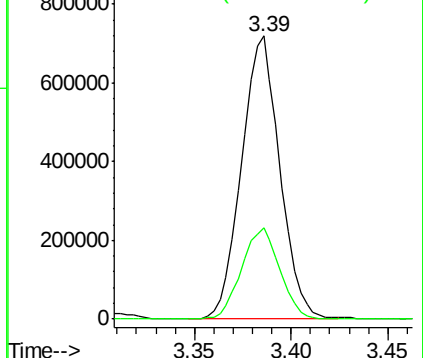
62 100

64 32.1 23.8 35.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 11.67 ppbv

RT: 3.61 min Scan# 786

Delta R.T. 0.00 min

Lab File: VL031857.D

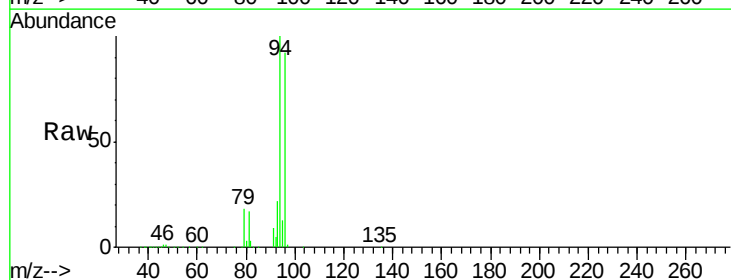
Acq: 12 Apr 2018 4:07

Tgt Ion: 94 Resp: 700680

Ion Ratio Lower Upper

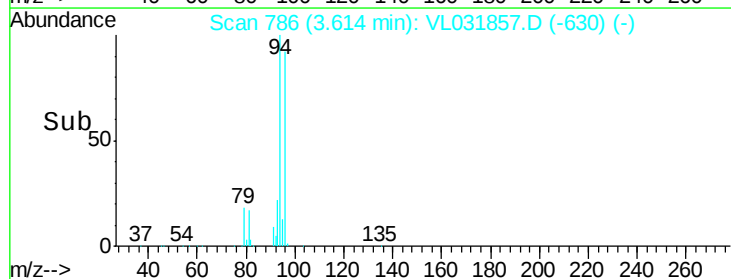
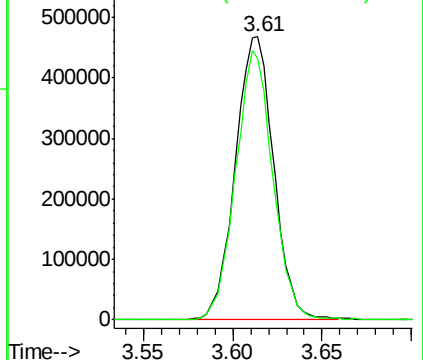
94 100

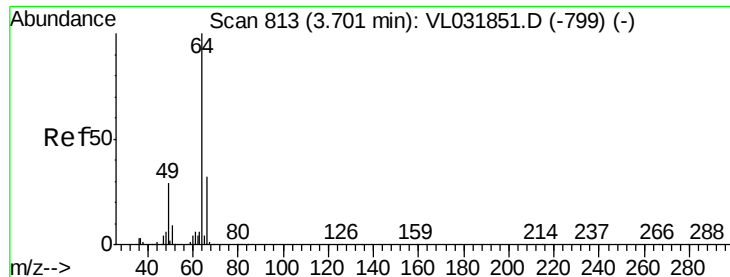
96 92.3 70.6 105.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 11.42 ppbv

RT: 3.70 min Scan# 812

Delta R.T. -0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

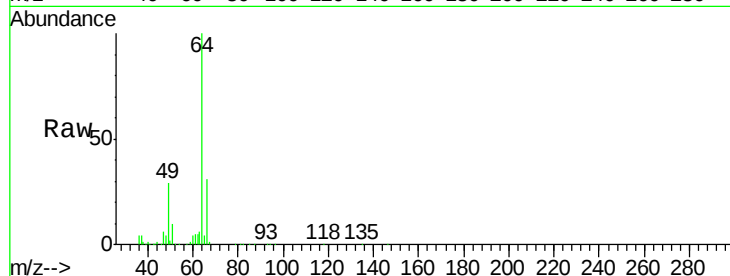
VSTDIC015

Tgt Ion: 64 Resp: 414222

Ion Ratio Lower Upper

64 100

66 31.2 25.5 38.3



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.70

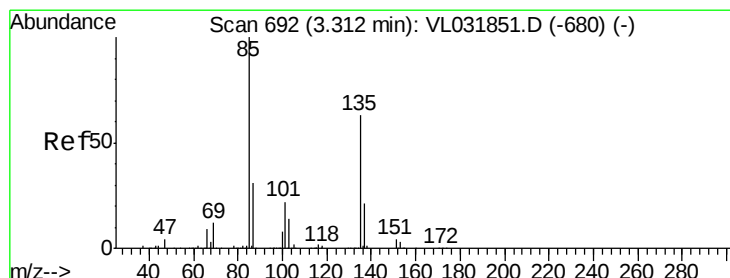
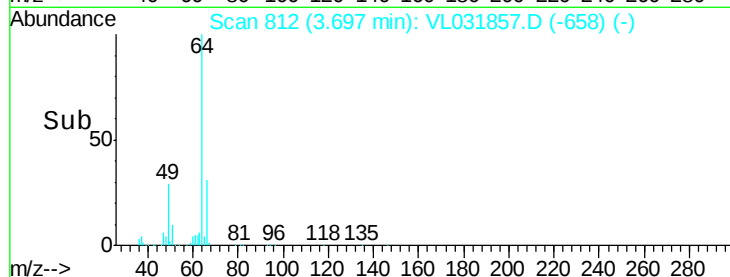
300000

200000

100000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.88 ppbv

RT: 3.31 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL031857.D

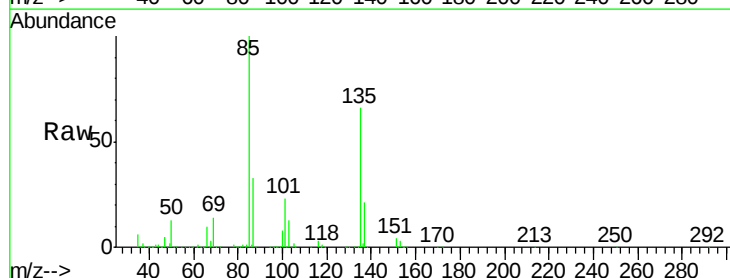
Acq: 12 Apr 2018 4:07

Tgt Ion: 85 Resp: 2541620

Ion Ratio Lower Upper

85 100

135 65.4 52.6 79.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.31

2000000

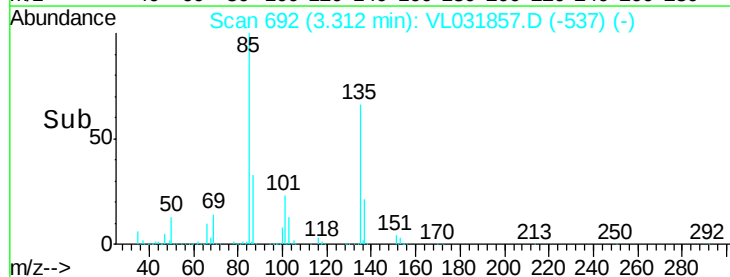
1500000

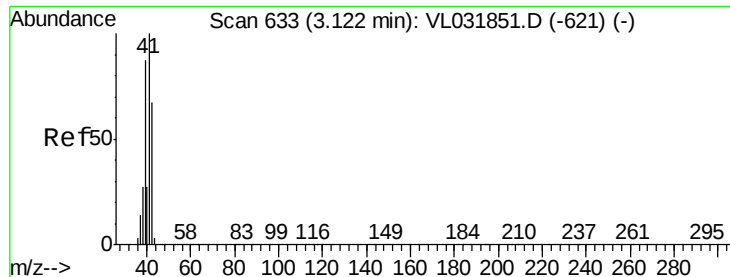
1000000

500000

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Time-->





#9

Propene

Concen: 10.10 ppbv

RT: 3.12 min Scan# 633

Delta R.T. -0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

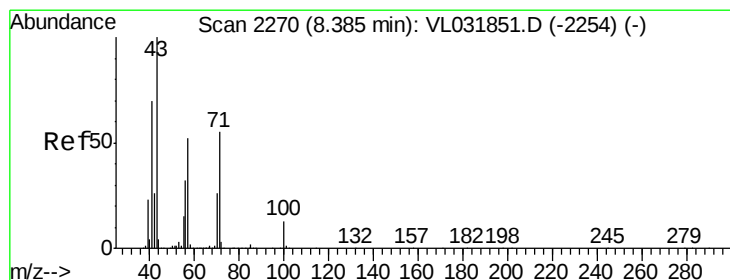
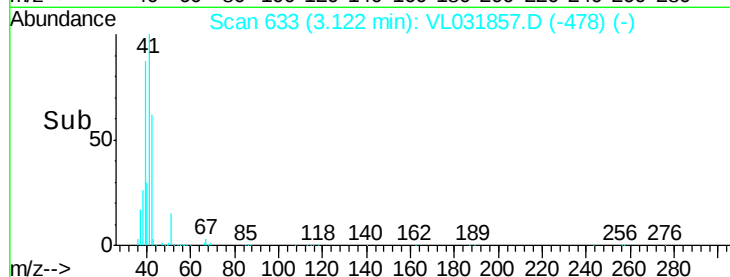
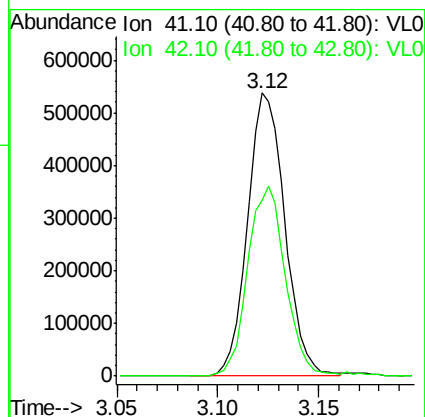
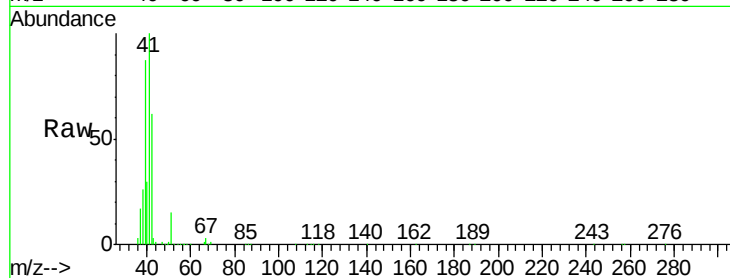
VSTDIC015

Tgt Ion: 41 Resp: 698869

Ion Ratio Lower Upper

41 100

42 68.3 54.3 81.5



#10

Heptane

Concen: 11.45 ppbv

RT: 8.39 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VL031857.D

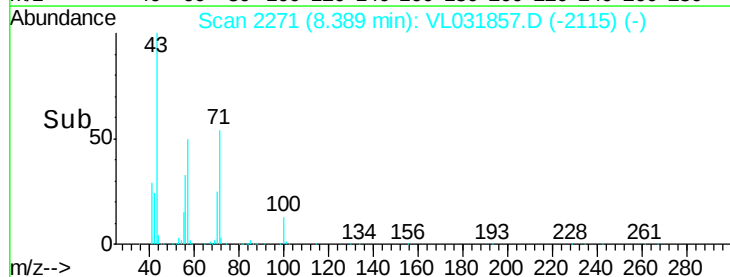
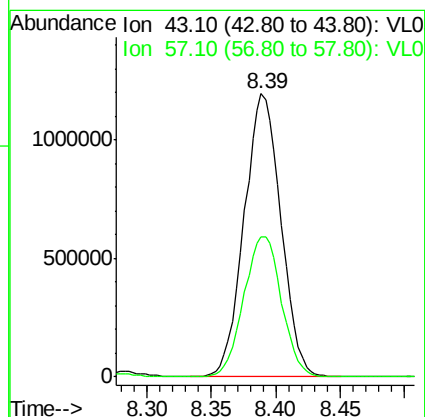
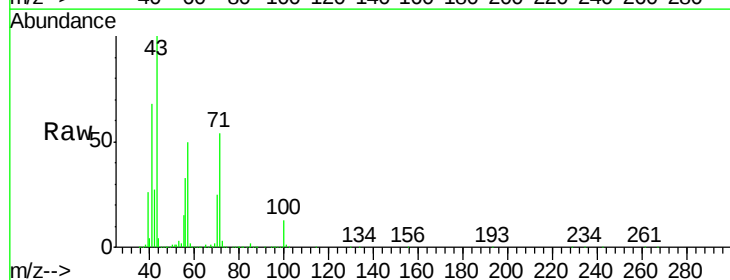
Acq: 12 Apr 2018 4:07

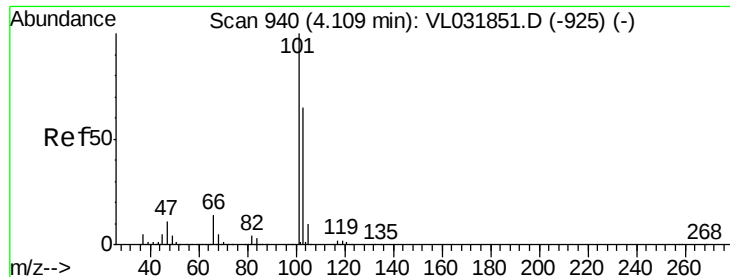
Tgt Ion: 43 Resp: 2363183

Ion Ratio Lower Upper

43 100

57 51.2 41.4 62.2

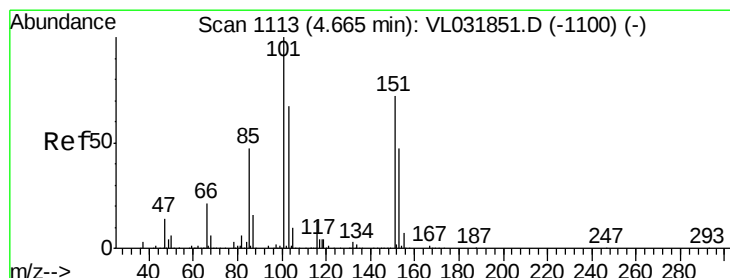
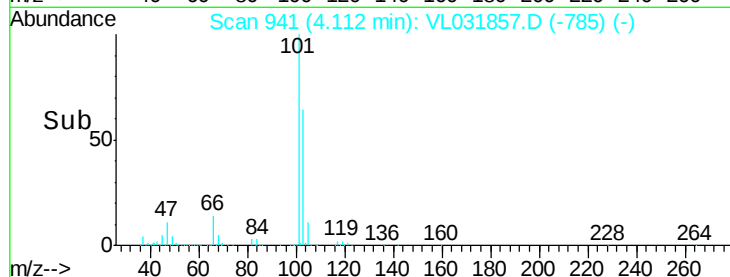
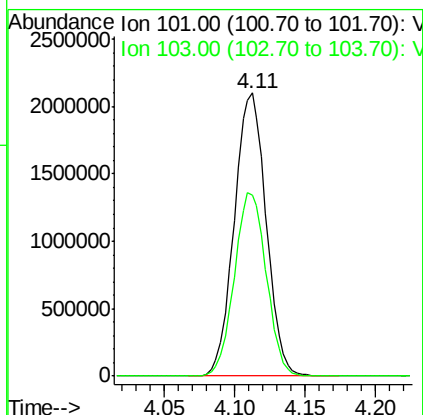
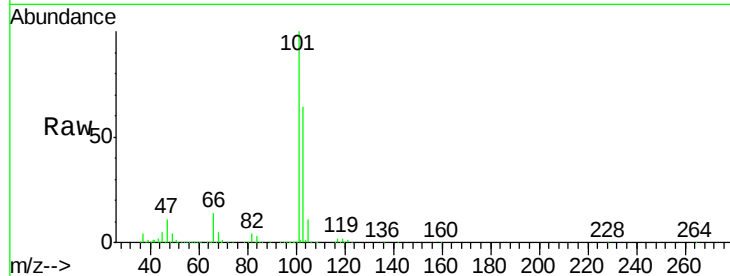




#11
 Trichlorofluoromethane
 Concen: 13.12 ppbv
 RT: 4.11 min Scan# 941
 Delta R.T. 0.00 min
 Lab File: VL031857.D
 Acq: 12 Apr 2018 4:07

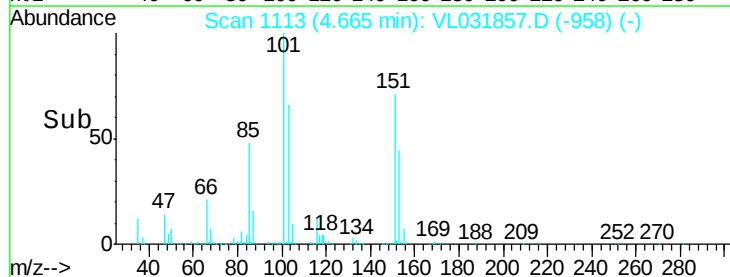
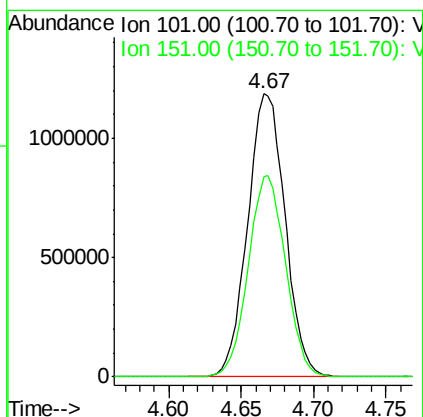
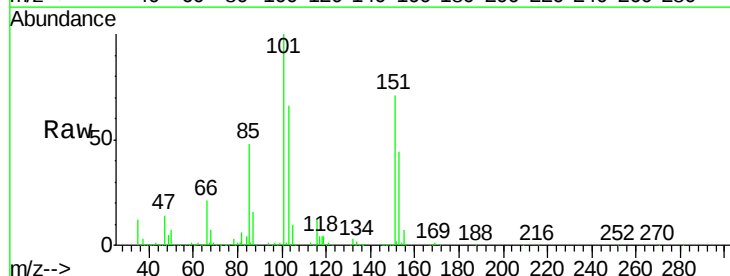
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

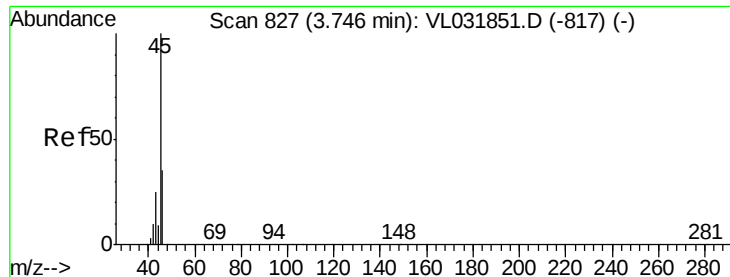
Tgt Ion:101 Resp: 3333064
 Ion Ratio Lower Upper
 101 100
 103 64.1 51.8 77.6



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 12.72 ppbv
 RT: 4.67 min Scan# 1113
 Delta R.T. -0.00 min
 Lab File: VL031857.D
 Acq: 12 Apr 2018 4:07

Tgt Ion:101 Resp: 2138392
 Ion Ratio Lower Upper
 101 100
 151 70.7 57.7 86.5





#13

Ethanol

Concen: 8.40 ppbv

RT: 3.75 min Scan# 828

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

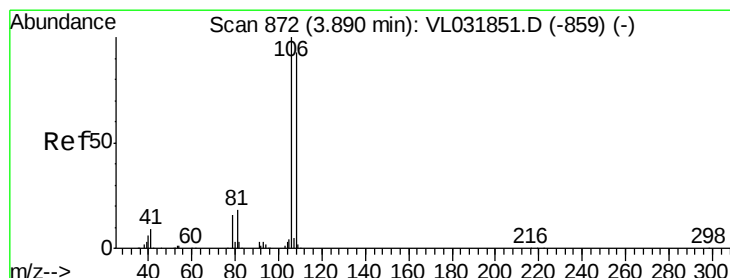
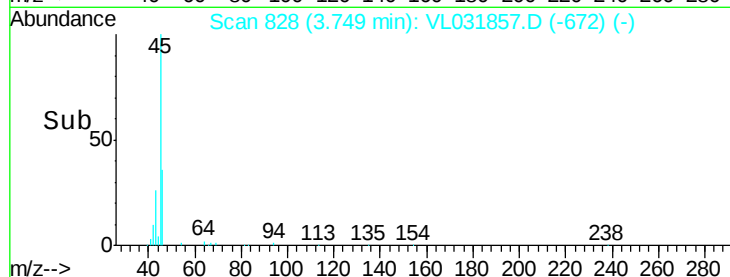
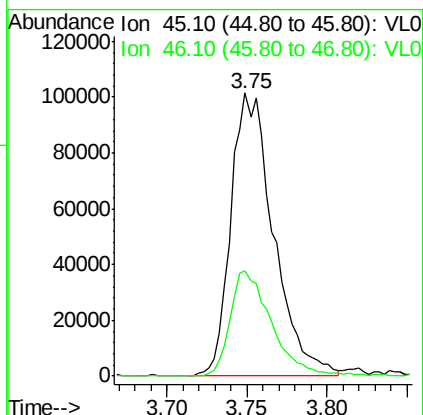
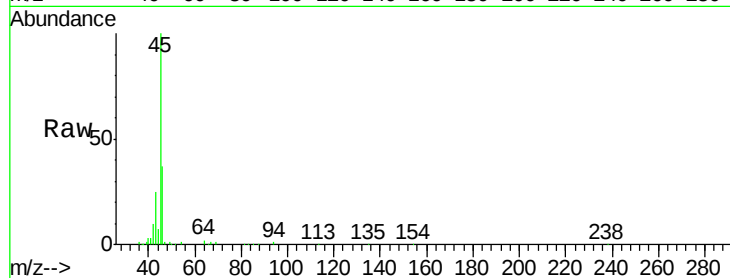
VSTDIC015

Tgt Ion: 45 Resp: 184292

Ion Ratio Lower Upper

45 100

46 36.3 14.6 58.4



#14

Bromoethene

Concen: 11.50 ppbv

RT: 3.89 min Scan# 872

Delta R.T. -0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

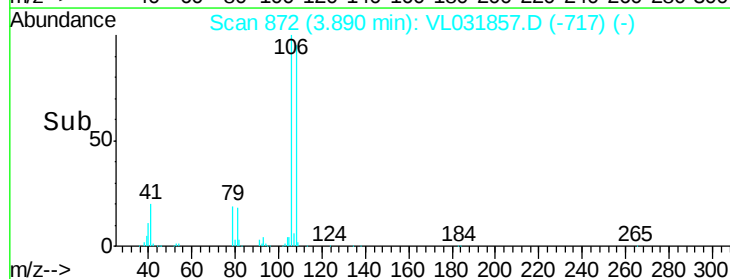
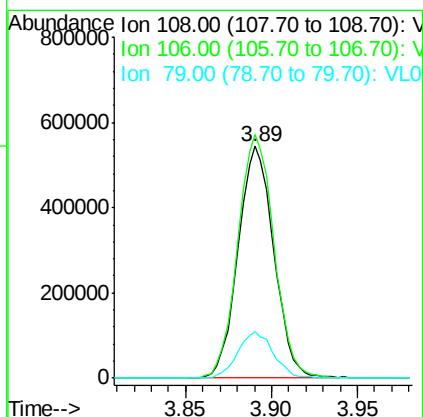
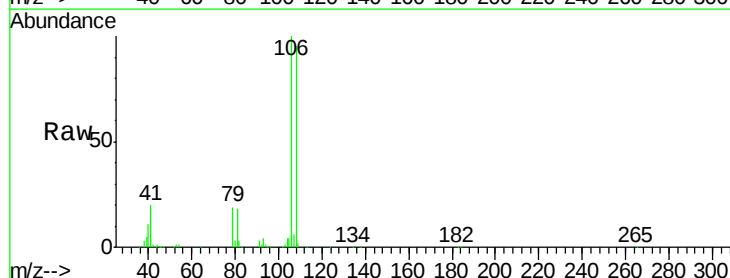
Tgt Ion: 108 Resp: 787821

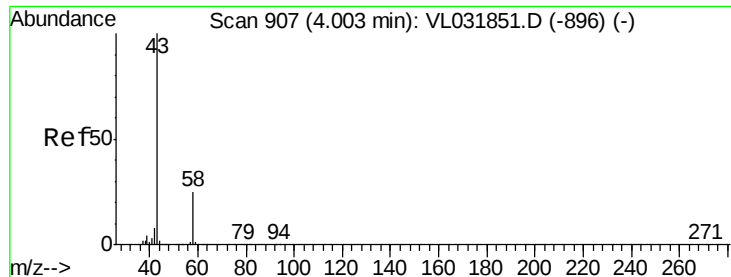
Ion Ratio Lower Upper

108 100

106 107.0 86.9 130.3

79 20.2 15.5 23.3





#15

Acetone

Concen: 9.65 ppbv

RT: 4.01 min Scan# 908

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

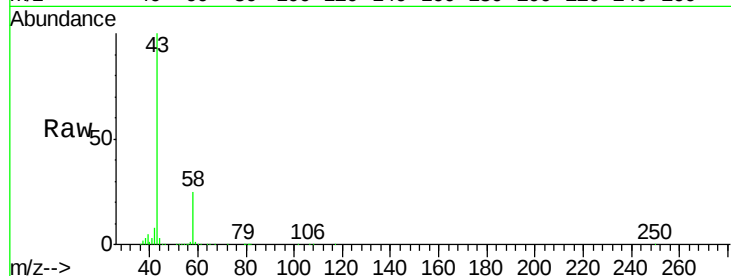
VSTDIC015

Tgt Ion: 43 Resp: 2203870

Ion Ratio Lower Upper

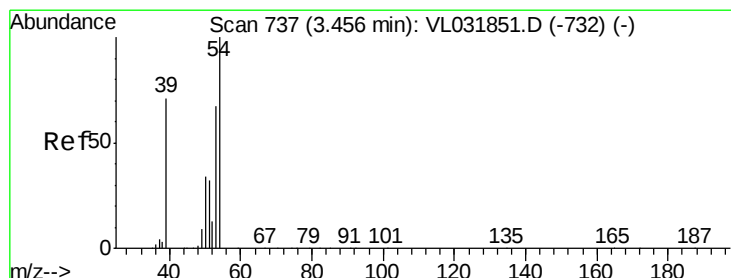
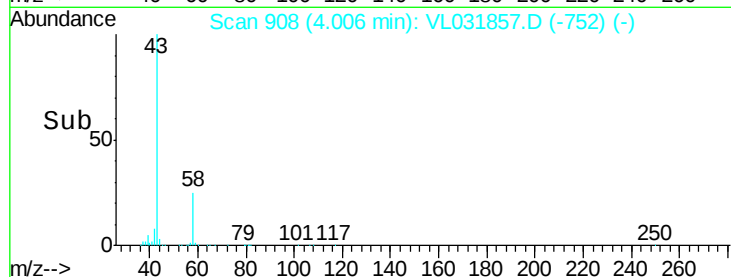
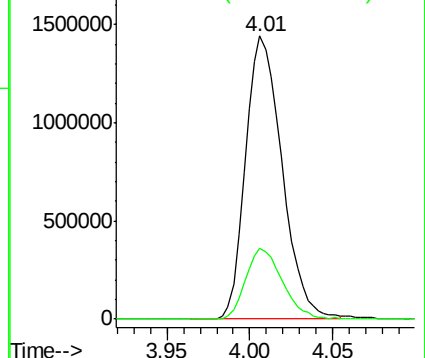
43 100

58 25.2 20.7 31.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.61 ppbv

RT: 3.46 min Scan# 738

Delta R.T. 0.00 min

Lab File: VL031857.D

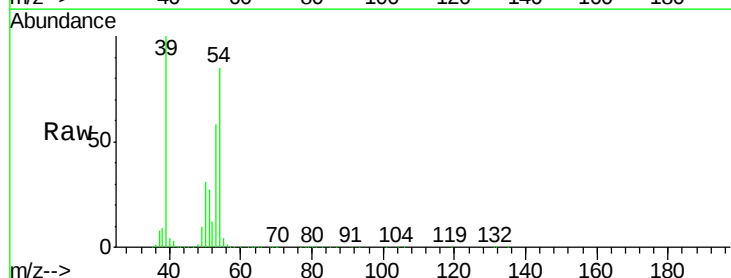
Acq: 12 Apr 2018 4:07

Tgt Ion: 39 Resp: 875999

Ion Ratio Lower Upper

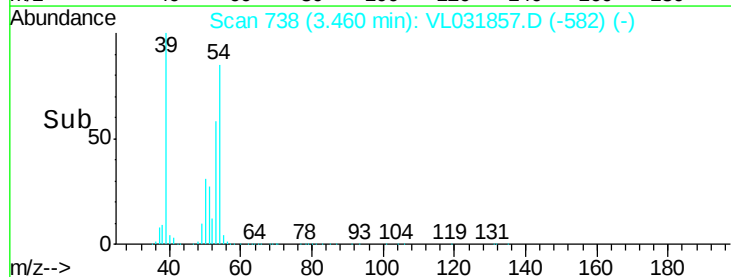
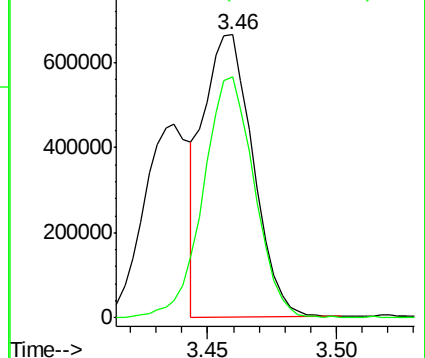
39 100

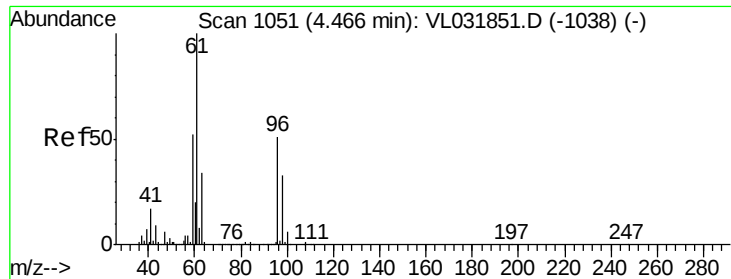
54 89.2 67.5 101.3



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

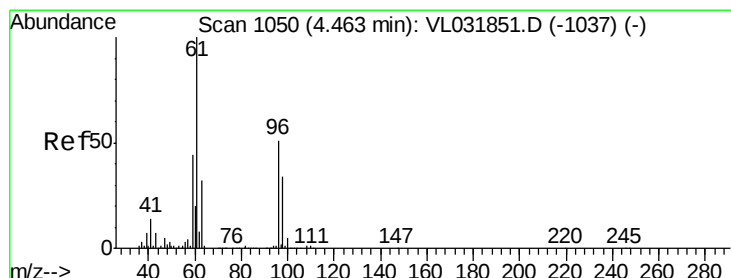
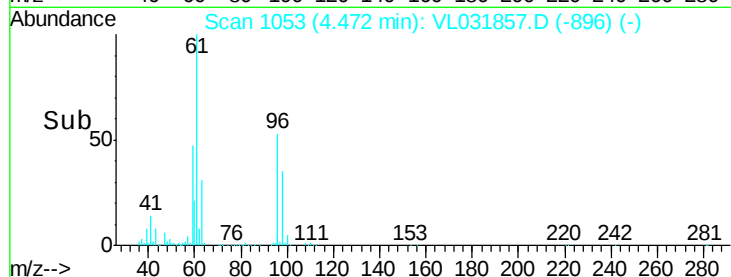
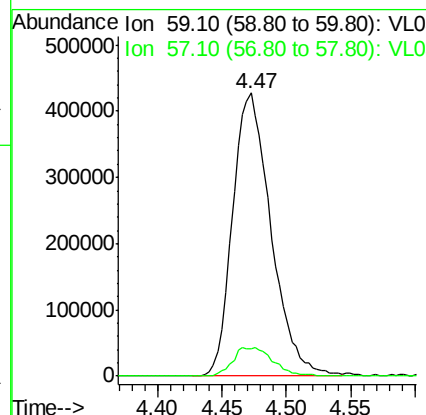
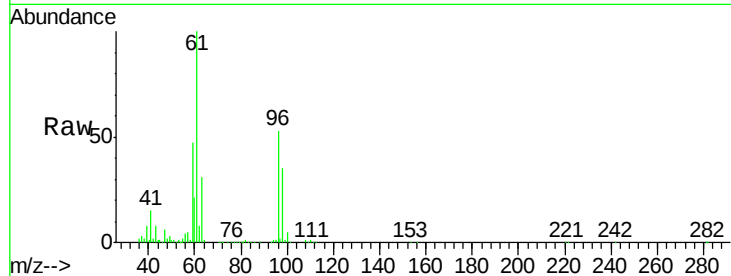




#17
 tert-Butyl alcohol
 Concen: 8.52 ppbv
 RT: 4.47 min Scan# 1053
 Delta R.T. 0.01 min
 Lab File: VL031857.D
 Acq: 12 Apr 2018 4:07

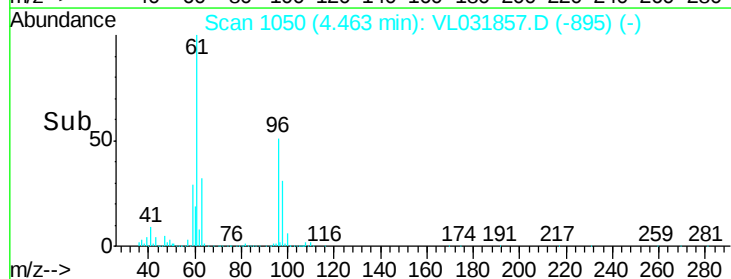
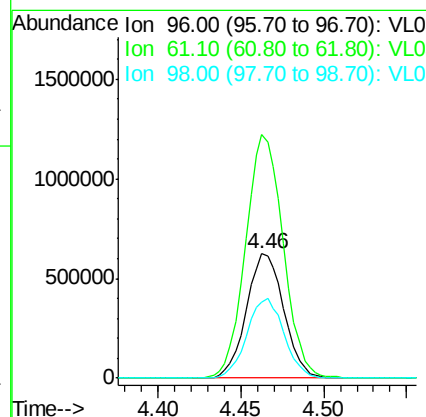
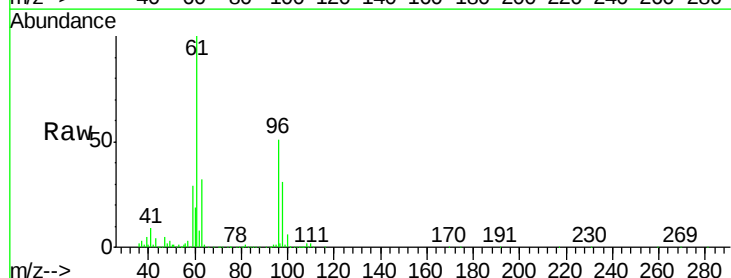
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

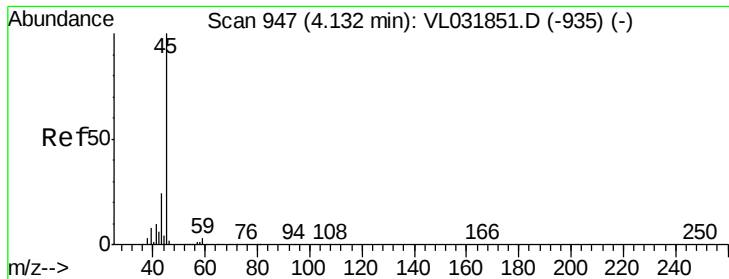
Tgt Ion: 59 Resp: 882933
 Ion Ratio Lower Upper
 59 100
 57 10.7 8.3 12.5



#18
 1,1-Dichloroethene
 Concen: 12.87 ppbv
 RT: 4.46 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VL031857.D
 Acq: 12 Apr 2018 4:07

Tgt Ion: 96 Resp: 977508
 Ion Ratio Lower Upper
 96 100
 61 195.7 157.2 235.8
 98 60.7 53.0 79.4



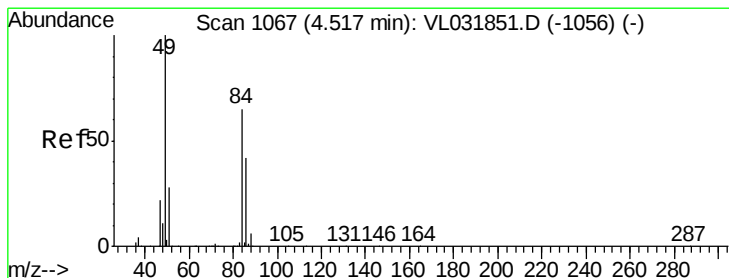
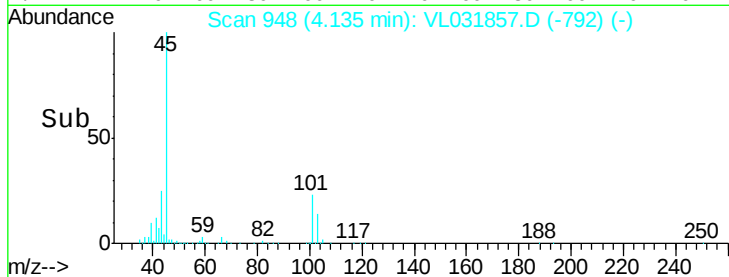
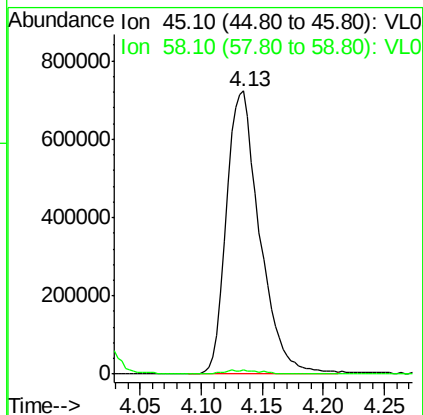
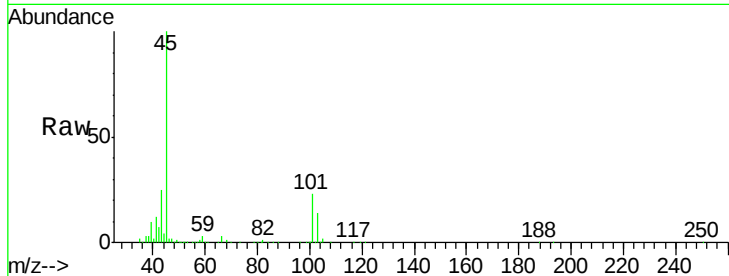


#19

Isopropyl Alcohol
 Concen: 11.10 ppbv
 RT: 4.13 min Scan# 948
 Delta R.T. 0.00 min
 Lab File: VL031857.D
 Acq: 12 Apr 2018 4:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

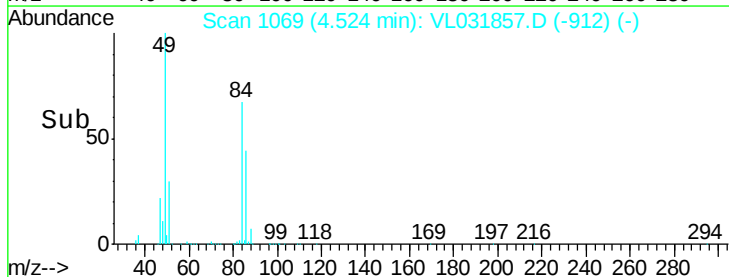
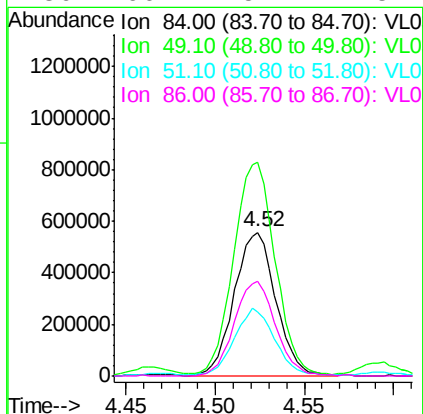
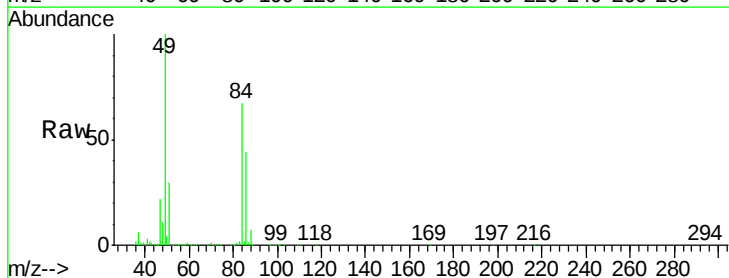
Tgt Ion: 45 Resp: 1382515
 Ion Ratio Lower Upper
 45 100
 58 1.7 1.4 2.0

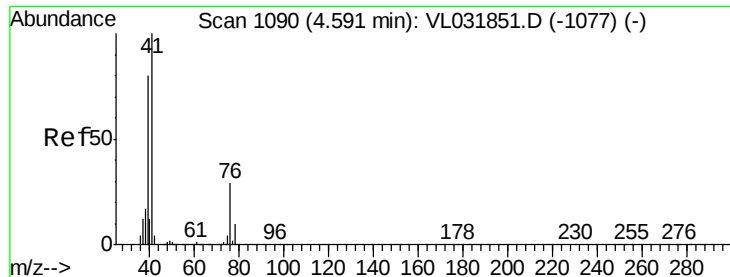


#20

Methylene Chloride
 Concen: 11.82 ppbv
 RT: 4.52 min Scan# 1069
 Delta R.T. 0.01 min
 Lab File: VL031857.D
 Acq: 12 Apr 2018 4:07

Tgt Ion: 84 Resp: 899195
 Ion Ratio Lower Upper
 84 100
 49 147.9 123.3 184.9
 51 44.3 35.0 52.6
 86 66.1 52.2 78.2

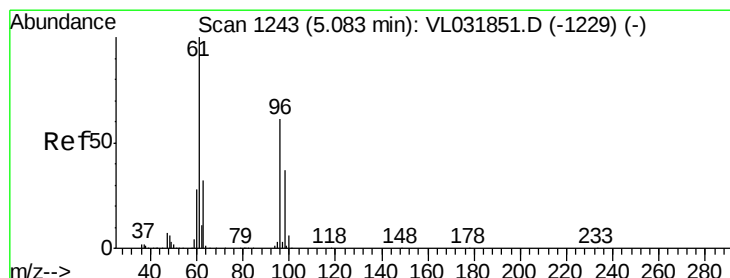
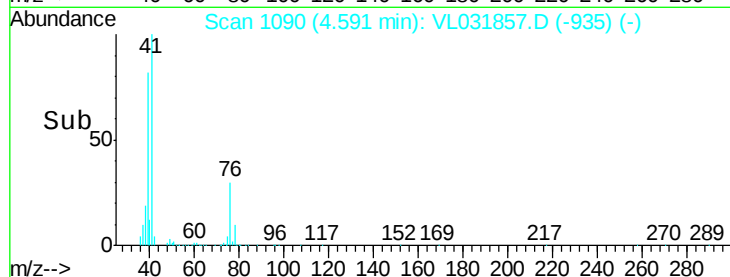
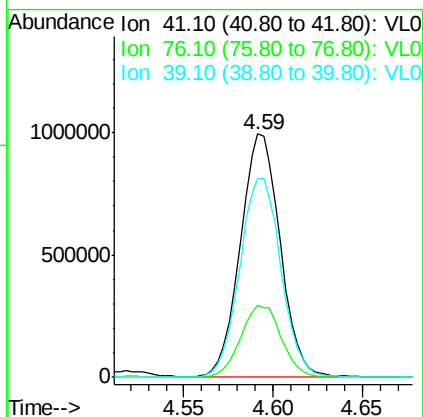
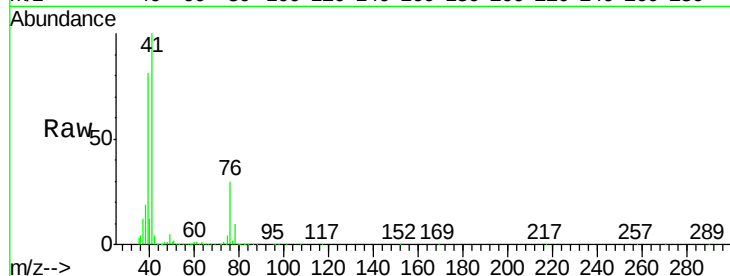




#21
 Allyl Chloride
 Concen: 12.62 ppbv
 RT: 4.59 min Scan# 1090
 Delta R.T. -0.00 min
 Lab File: VL031857.D
 Acq: 12 Apr 2018 4:07

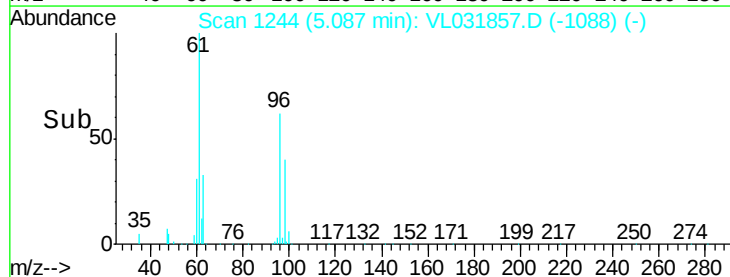
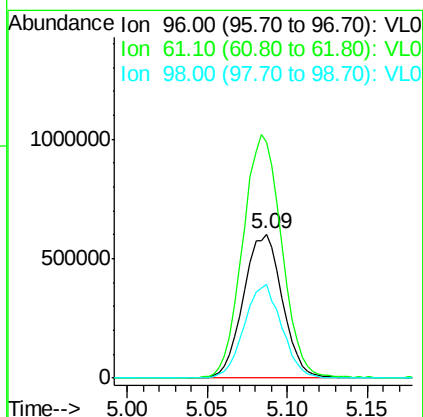
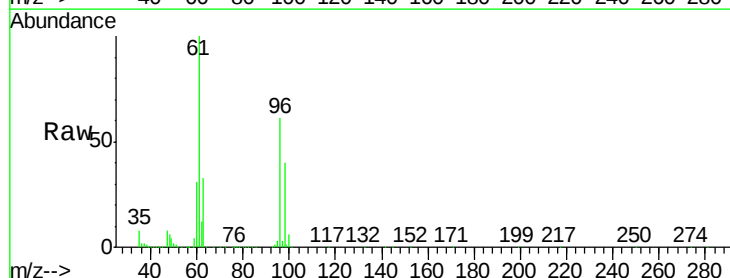
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

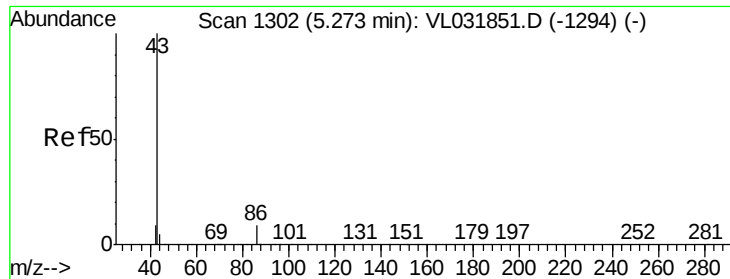
Tgt Ion: 41 Resp: 1536751
 Ion Ratio Lower Upper
 41 100
 76 30.6 23.4 35.0
 39 85.7 65.4 98.2



#22
 trans-1,2-Dichloroethene
 Concen: 12.32 ppbv
 RT: 5.09 min Scan# 1244
 Delta R.T. 0.00 min
 Lab File: VL031857.D
 Acq: 12 Apr 2018 4:07

Tgt Ion: 96 Resp: 1000027
 Ion Ratio Lower Upper
 96 100
 61 163.5 130.2 195.2
 98 64.9 48.2 72.2





#23

Vinyl Acetate

Concen: 11.56 ppbv

RT: 5.28 min Scan# 1304

Delta R.T. 0.01 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 2881610

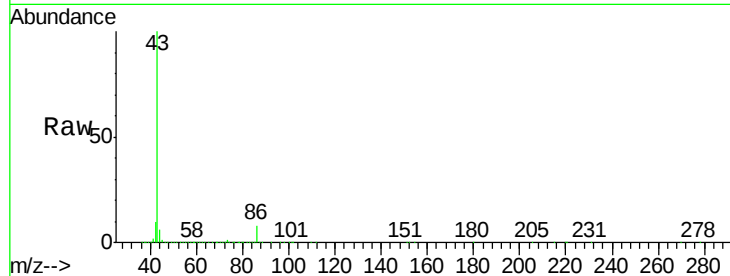
Ion Ratio Lower Upper

43 100

86 7.5 6.4 9.6

42 10.2 8.2 12.2

44 5.7 4.1 6.1

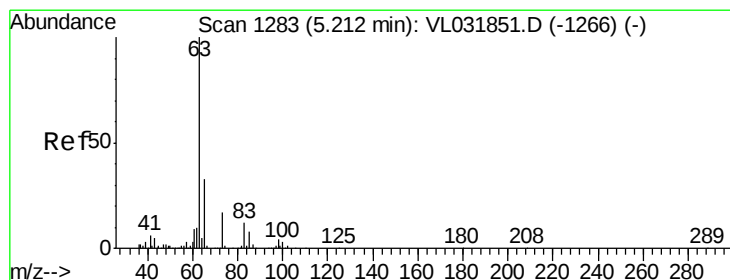
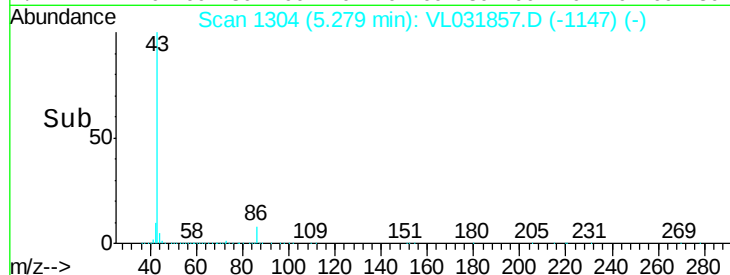
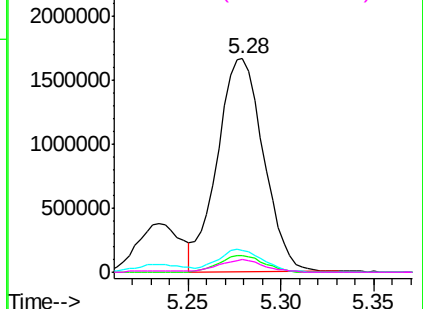


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 12.29 ppbv

RT: 5.22 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

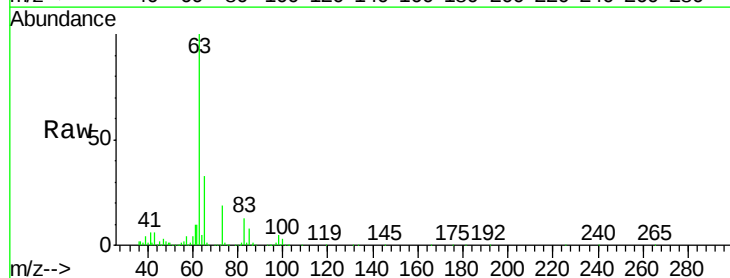
Tgt Ion: 63 Resp: 2594404

Ion Ratio Lower Upper

63 100

98 4.7 2.2 6.6

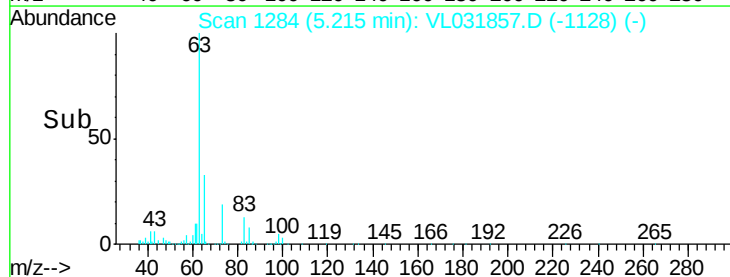
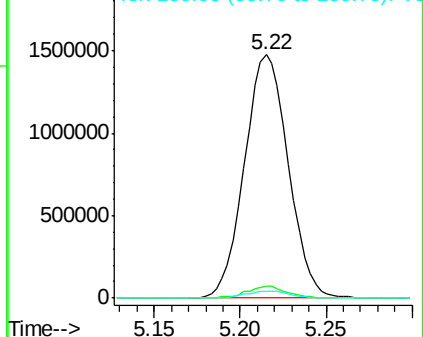
100 3.0 1.7 5.0

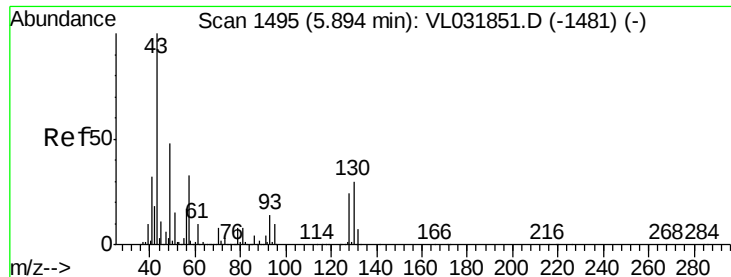


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



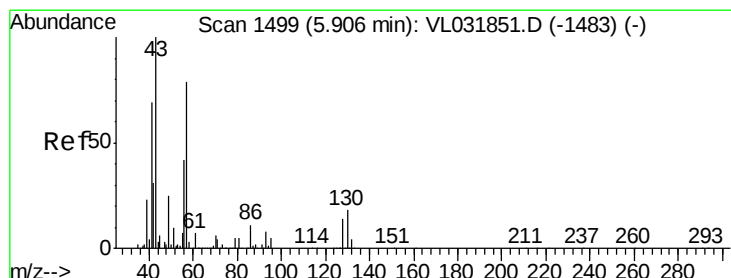
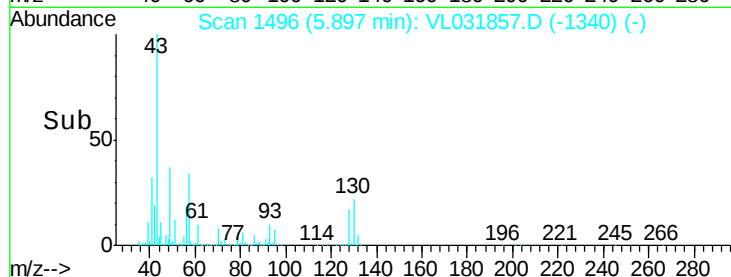
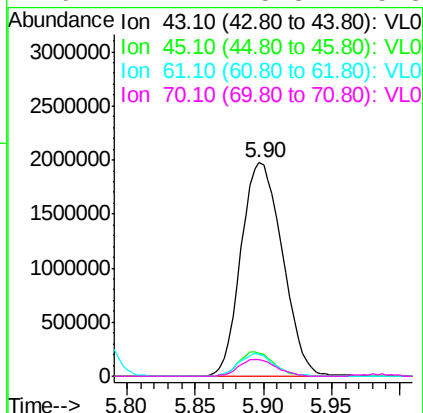
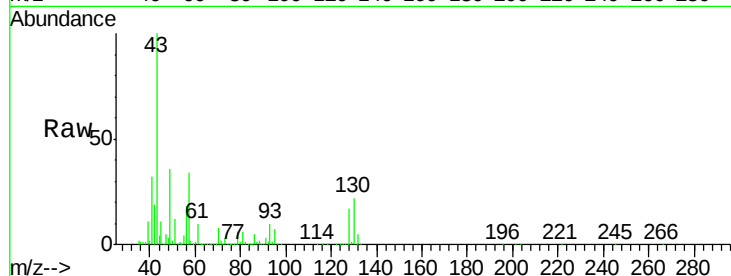


#25
Ethyl Acetate
Concen: 11.84 ppbv
RT: 5.90 min Scan# 1496
Delta R.T. 0.00 min
Lab File: VL031857.D
Acq: 12 Apr 2018 4:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 4167834

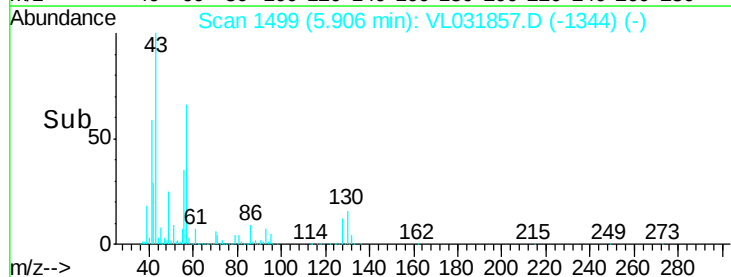
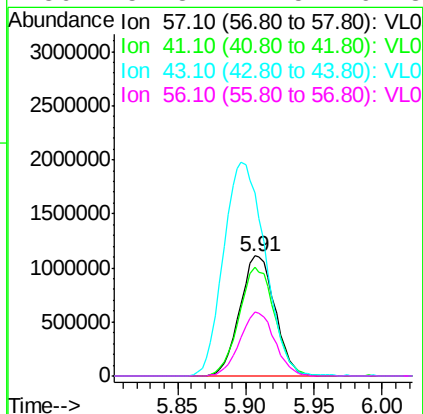
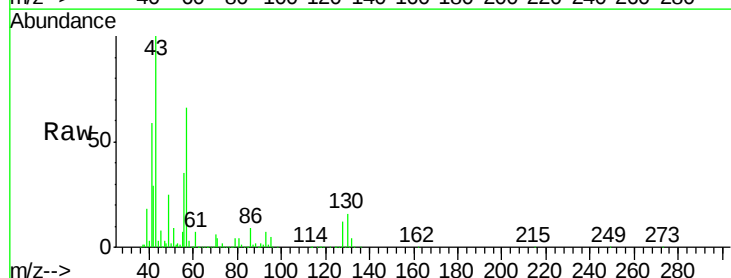
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.8
61	8.9	7.5	11.3
70	7.1	5.8	8.8

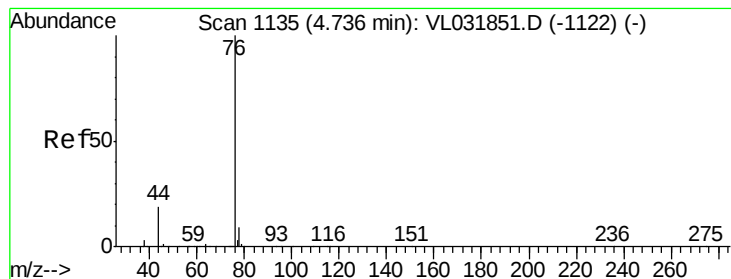


#26
Hexane
Concen: 12.29 ppbv
RT: 5.91 min Scan# 1499
Delta R.T. -0.00 min
Lab File: VL031857.D
Acq: 12 Apr 2018 4:07

Tgt Ion: 57 Resp: 1988429

Ion	Ratio	Lower	Upper
57	100		
41	91.9	71.7	107.5
43	210.3	172.0	258.0
56	52.8	41.5	62.3





#27

Carbon Disulfide

Concen: 15.08 ppbv

RT: 4.74 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

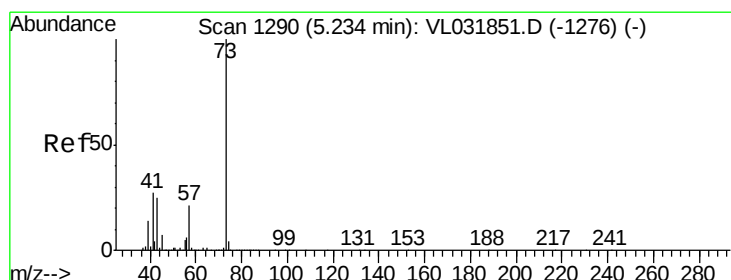
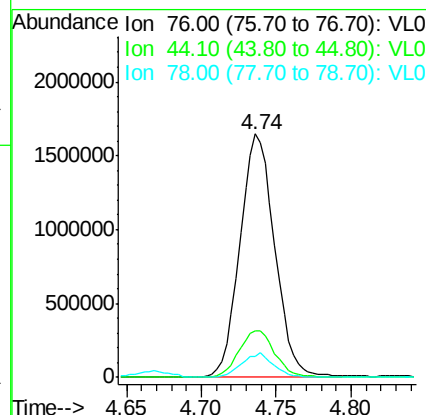
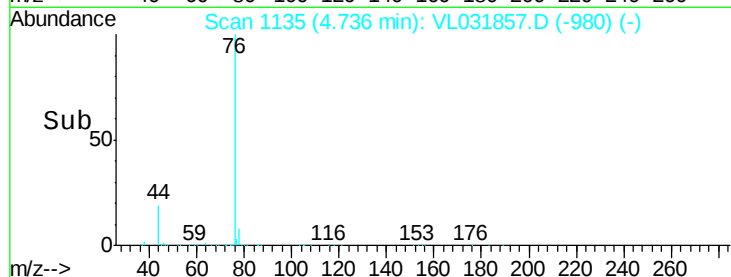
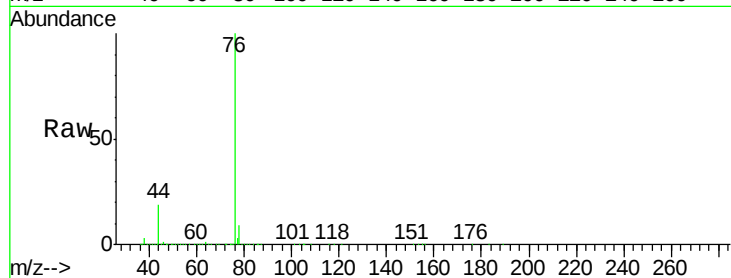
Tgt Ion: 76 Resp: 2666473

Ion	Ratio	Lower	Upper
76	100		
44	19.6	14.8	22.2
78	9.2	7.4	11.2

76 100

44 19.6 14.8 22.2

78 9.2 7.4 11.2



#28

Methyl tert-Butyl Ether

Concen: 11.50 ppbv

RT: 5.23 min Scan# 1290

Delta R.T. -0.00 min

Lab File: VL031857.D

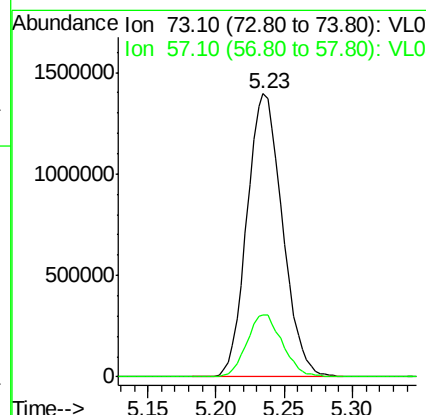
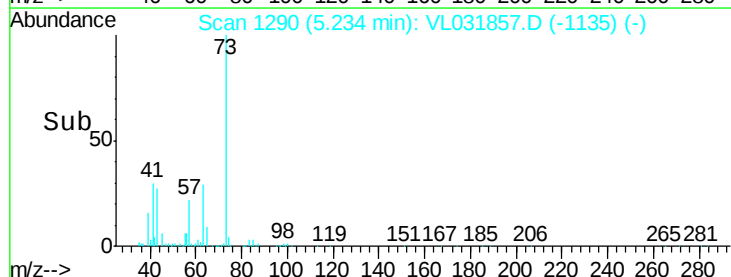
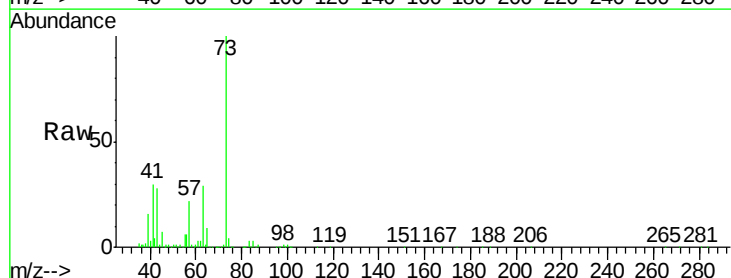
Acq: 12 Apr 2018 4:07

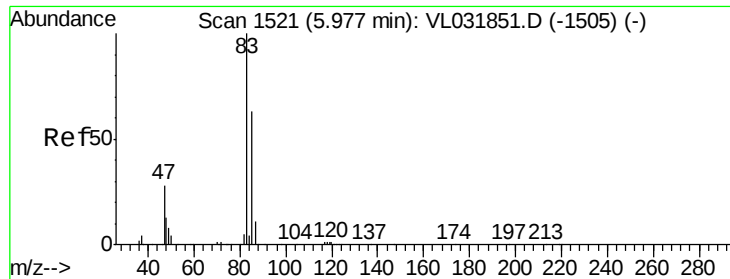
Tgt Ion: 73 Resp: 2519449

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.3	25.9

73 100

57 22.2 17.3 25.9





#29

Chloroform

Concen: 12.35 ppbv

RT: 5.98 min Scan# 1522

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

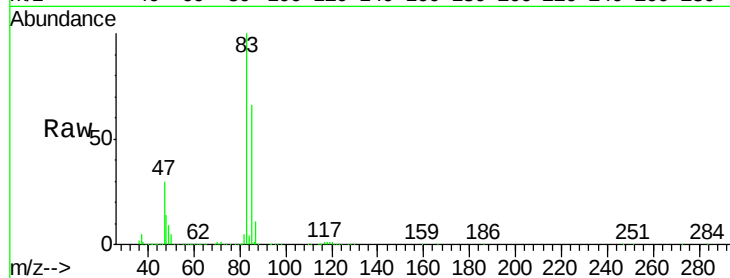
VSTDIC015

Tgt Ion: 83 Resp: 3183341

Ion Ratio Lower Upper

83 100

85 65.7 50.4 75.6



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

2000000

1500000

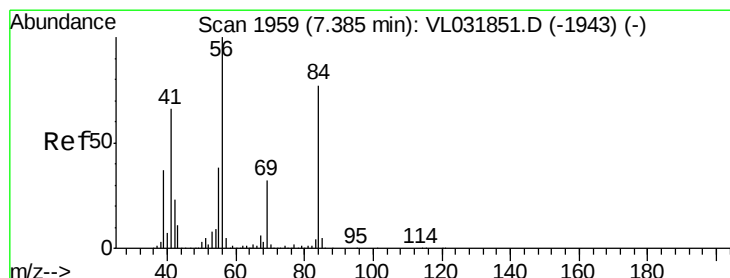
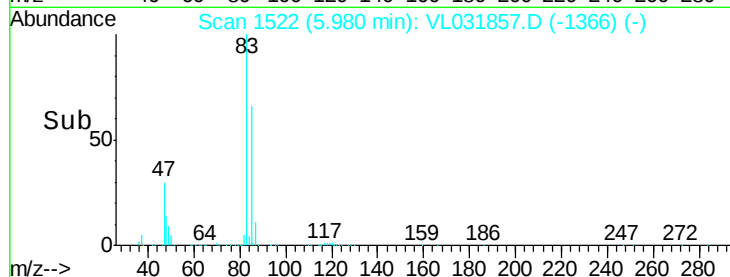
1000000

500000

0

5.90 5.95 6.00 6.05

Time-->



#30

Cyclohexane

Concen: 11.03 ppbv

RT: 7.39 min Scan# 1960

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

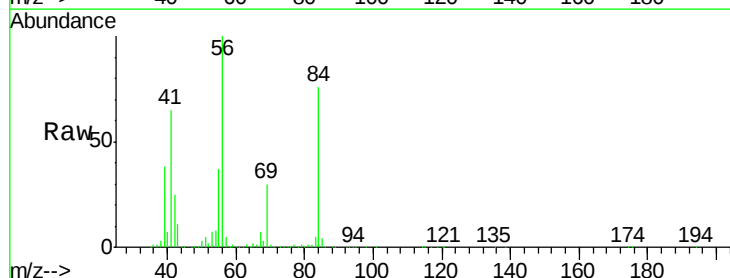
Tgt Ion: 84 Resp: 1425696

Ion Ratio Lower Upper

84 100

56 133.5 108.6 162.8

41 85.6 67.8 101.8



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

1200000

1000000

800000

600000

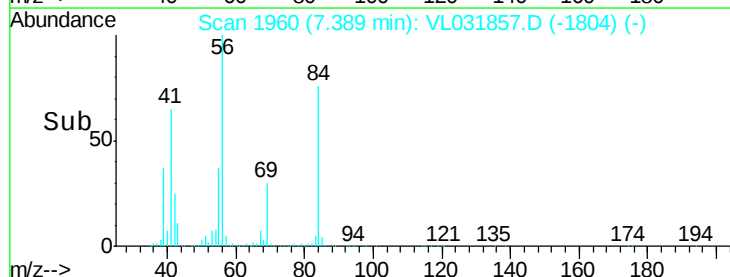
400000

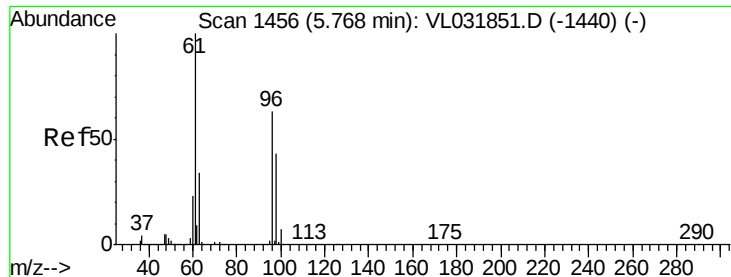
200000

0

7.30 7.35 7.40 7.45

Time-->





#31

cis-1,2-Dichloroethene

Concen: 12.73 ppbv

RT: 5.77 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

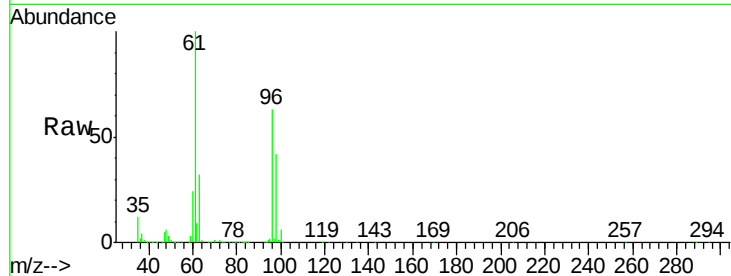
Tgt Ion: 61 Resp: 1916232

Ion Ratio Lower Upper

61 100

96 62.7 50.4 75.6

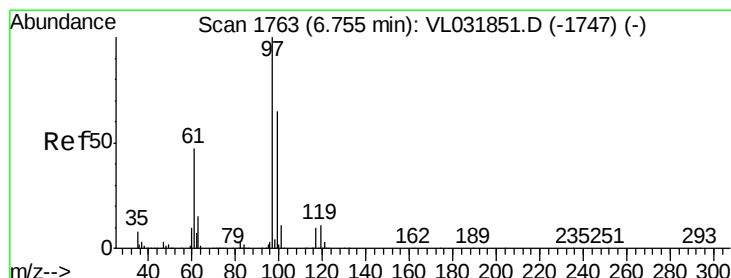
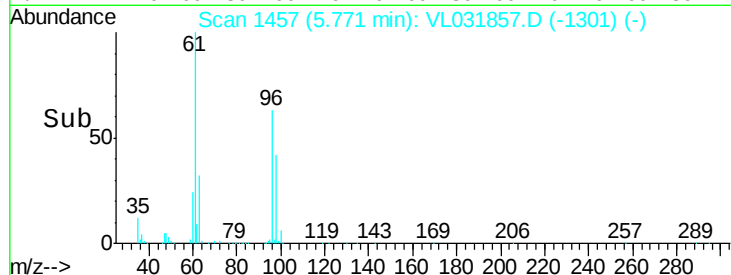
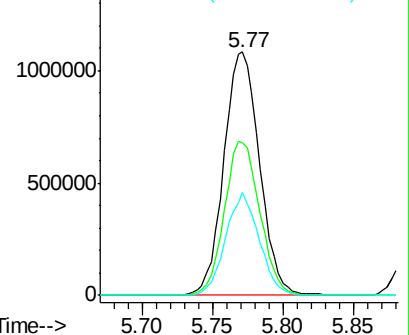
98 42.2 34.1 51.1



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: 10.75 ppbv

RT: 6.76 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

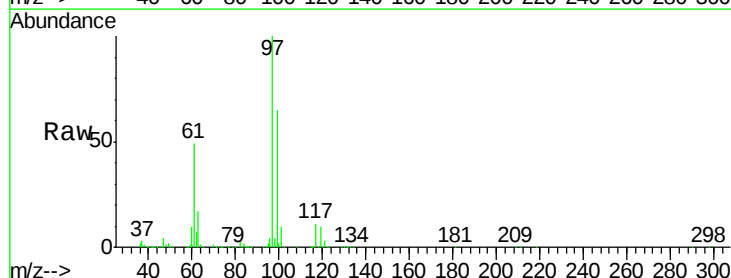
Tgt Ion: 97 Resp: 2907062

Ion Ratio Lower Upper

97 100

99 64.5 51.5 77.3

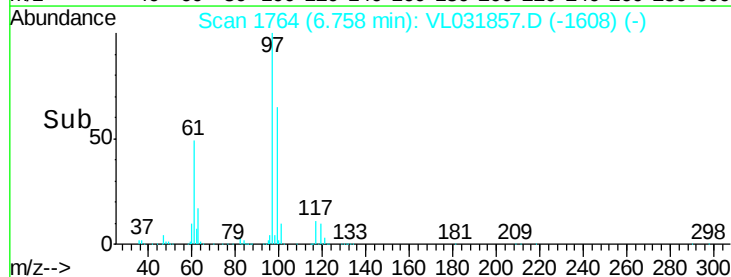
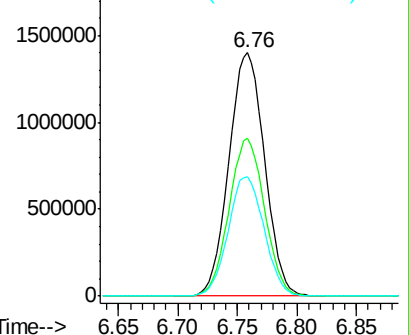
61 49.7 39.0 58.4

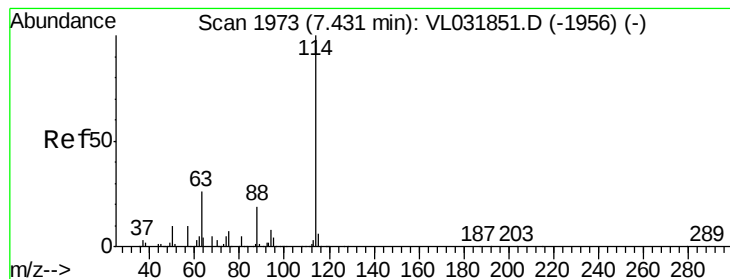


Abundance Ion 97.00 (96.70 to 97.70): VL0

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# 1974

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

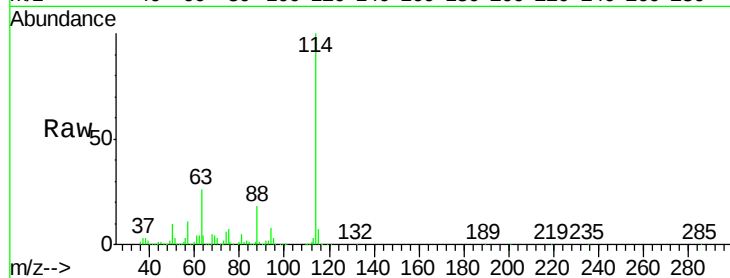
Tgt Ion: 114 Resp: 2847652

Ion Ratio Lower Upper

114 100

63 27.6 21.4 32.2

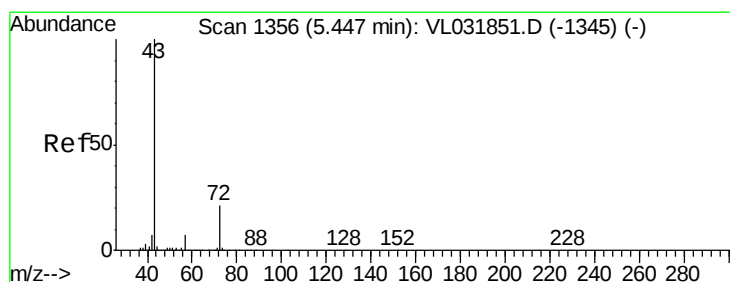
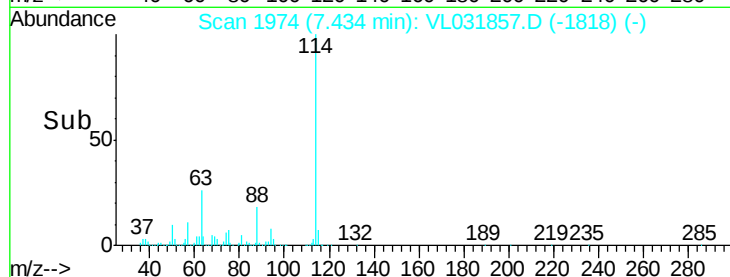
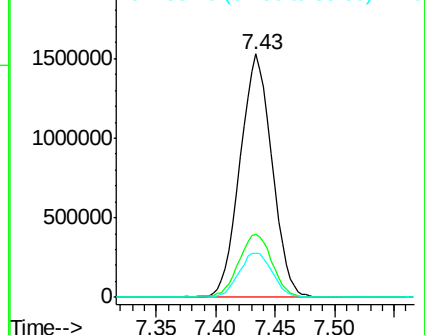
88 18.9 14.7 22.1



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 13.62 ppbv

RT: 5.45 min Scan# 1358

Delta R.T. 0.01 min

Lab File: VL031857.D

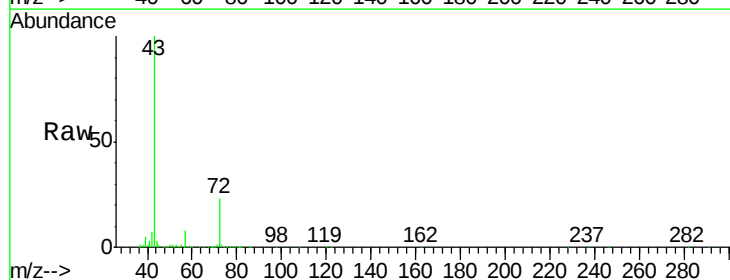
Acq: 12 Apr 2018 4:07

Tgt Ion: 43 Resp: 2664858

Ion Ratio Lower Upper

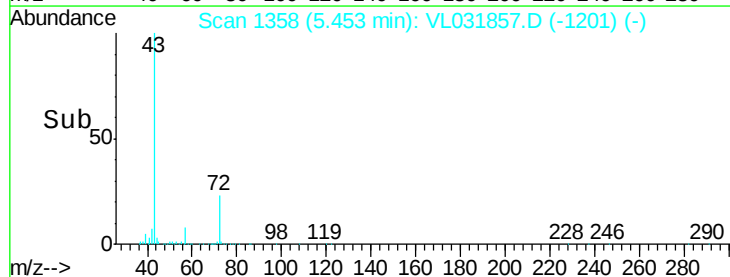
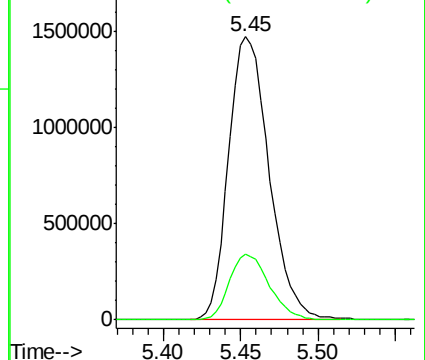
43 100

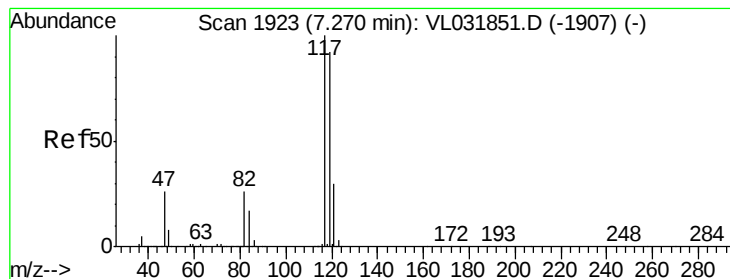
72 23.1 18.6 28.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 14.11 ppbv

RT: 7.28 min Scan# 1925

Delta R.T. 0.01 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

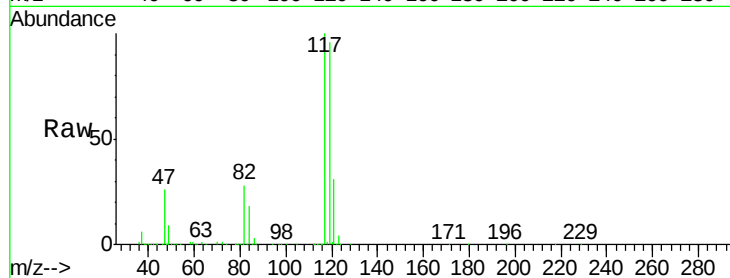
Tgt Ion:117 Resp: 3008003

Ion Ratio Lower Upper

117 100

119 96.2 73.4 110.0

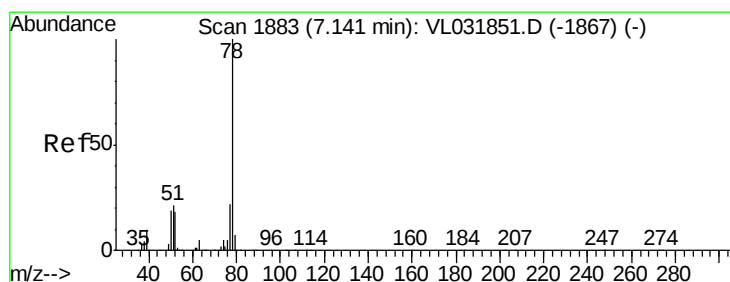
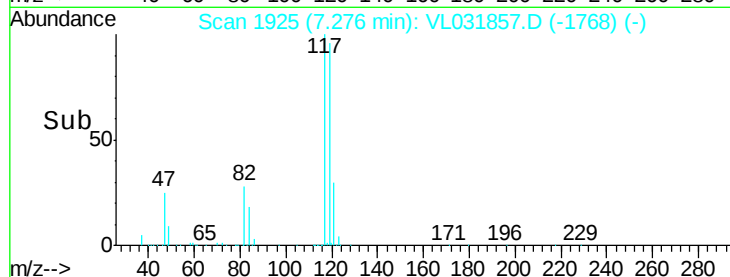
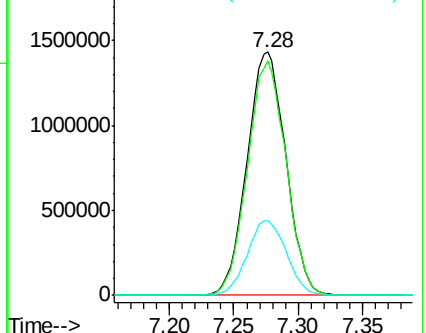
121 30.5 24.2 36.4



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: 13.06 ppbv

RT: 7.15 min Scan# 1885

Delta R.T. 0.01 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

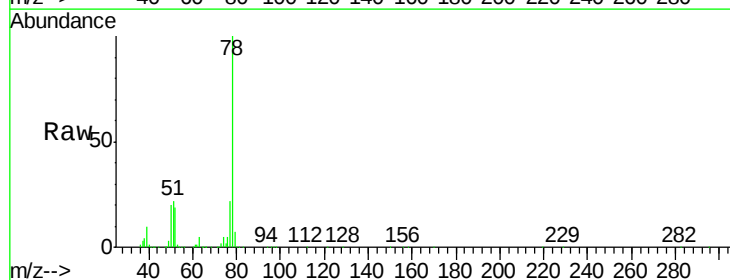
Tgt Ion: 78 Resp: 3500686

Ion Ratio Lower Upper

78 100

77 21.7 17.8 26.8

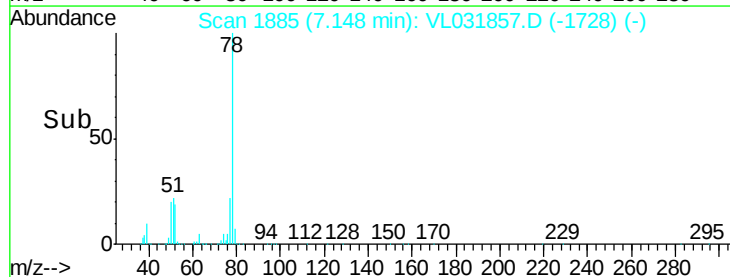
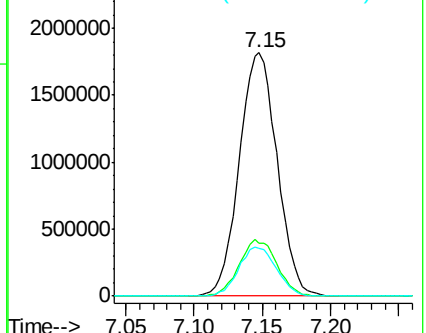
50 19.7 15.0 22.6

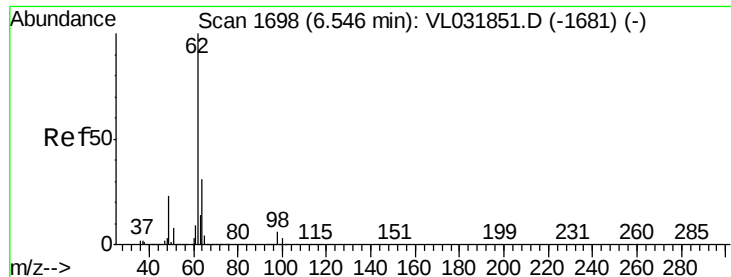


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

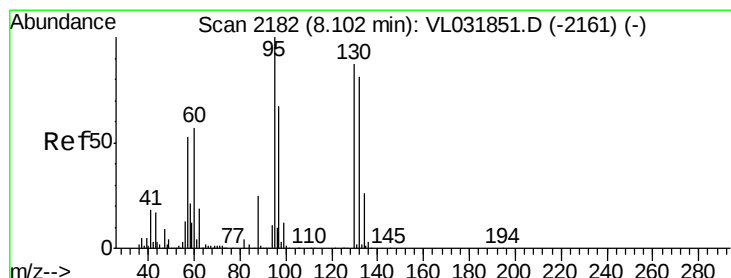
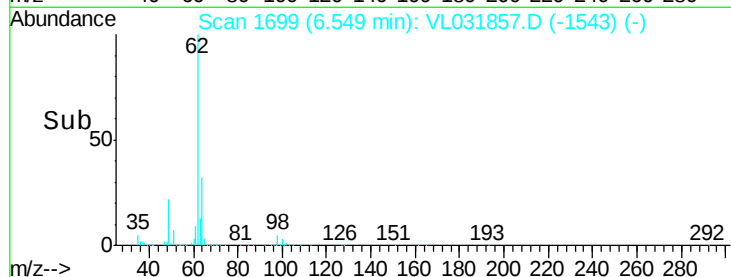
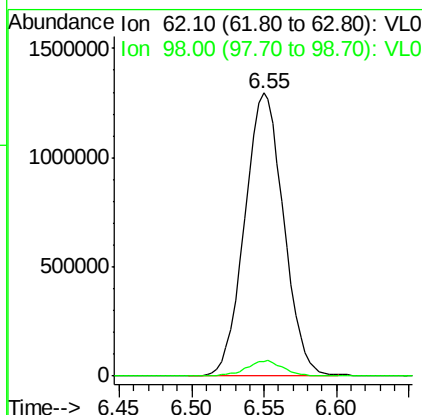
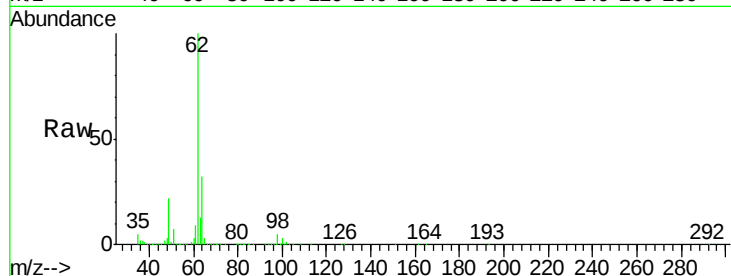




#37
 1,2-Dichloroethane
 Concen: 13.58 ppbv
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VL031857.D
 Acq: 12 Apr 2018 4:07

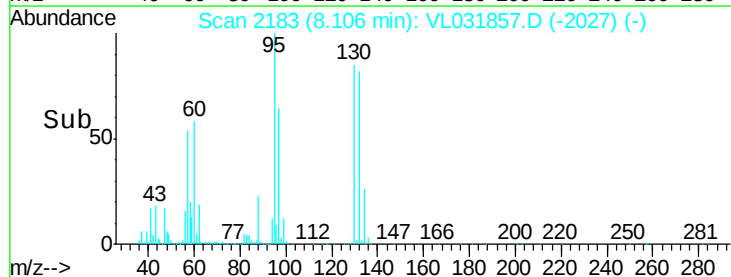
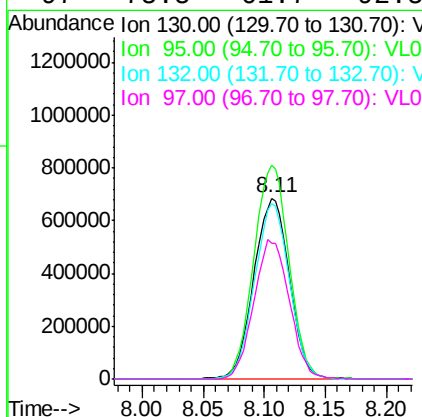
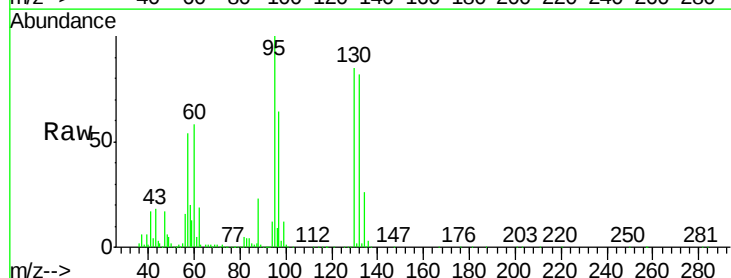
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

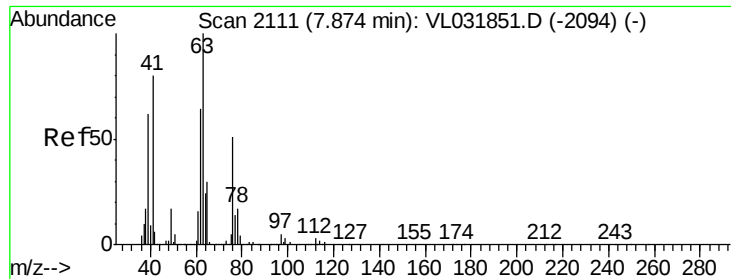
Tgt Ion: 62 Resp: 2426869
 Ion Ratio Lower Upper
 62 100
 98 5.2 4.5 6.7



#38
 Trichloroethene
 Concen: 12.71 ppbv
 RT: 8.11 min Scan# 2183
 Delta R.T. 0.00 min
 Lab File: VL031857.D
 Acq: 12 Apr 2018 4:07

Tgt Ion: 130 Resp: 1378866
 Ion Ratio Lower Upper
 130 100
 95 118.4 92.1 138.1
 132 97.2 74.8 112.2
 97 75.5 61.7 92.5





#39

1,2-Dichloropropane

Concen: 12.97 ppbv

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

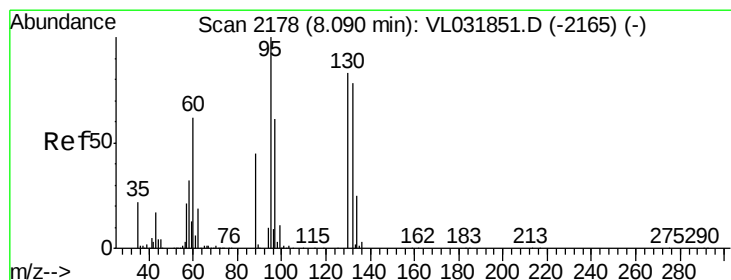
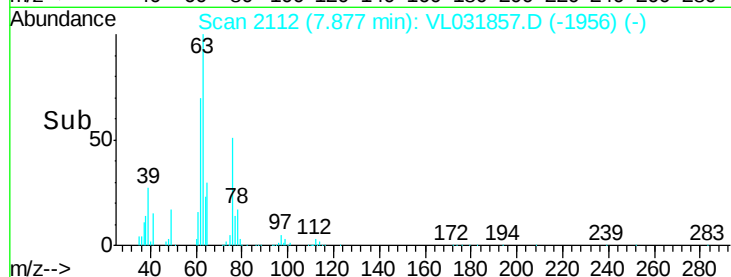
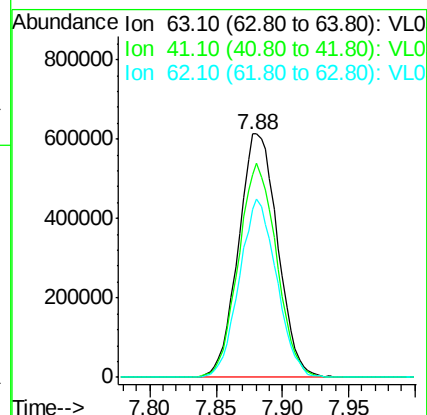
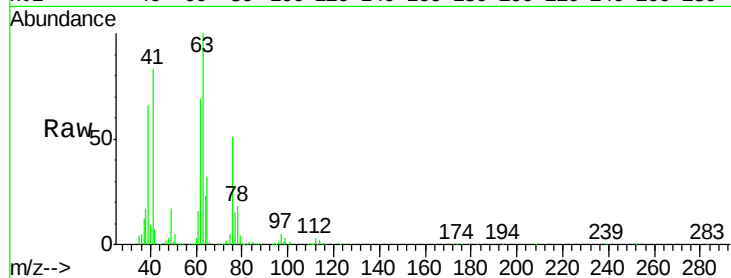
Tgt Ion: 63 Resp: 1256962

Ion Ratio Lower Upper

63 100

41 83.2 64.1 96.1

62 69.1 51.5 77.3



#40

1,4-Dioxane

Concen: 13.52 ppbv

RT: 8.10 min Scan# 2180

Delta R.T. 0.01 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Tgt Ion: 88 Resp: 526072

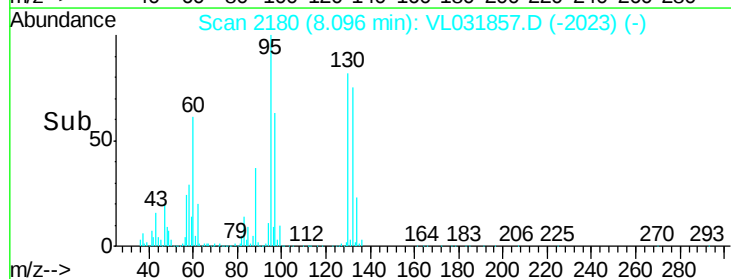
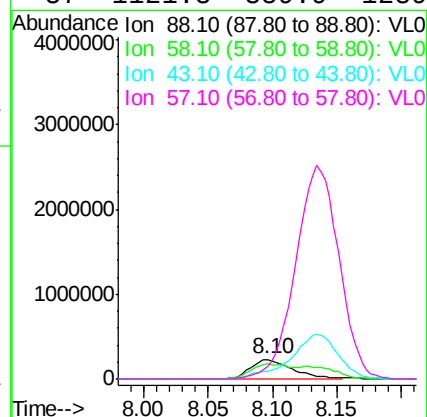
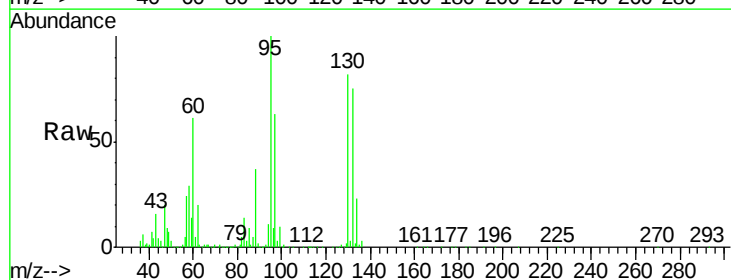
Ion Ratio Lower Upper

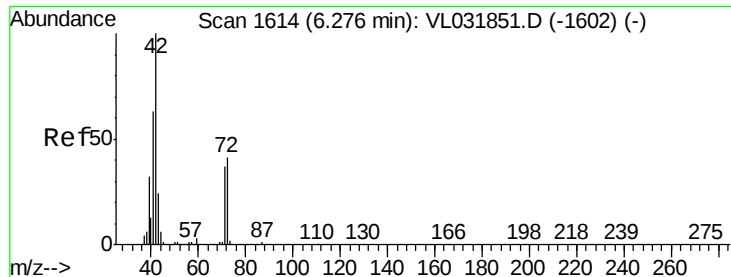
88 100

58 127.9 99.3 148.9

43 258.0 197.3 295.9

57 1121.8 859.9 1289.9





#41

Tetrahydrofuran

Concen: 14.43 ppbv

RT: 6.28 min Scan# 1615

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

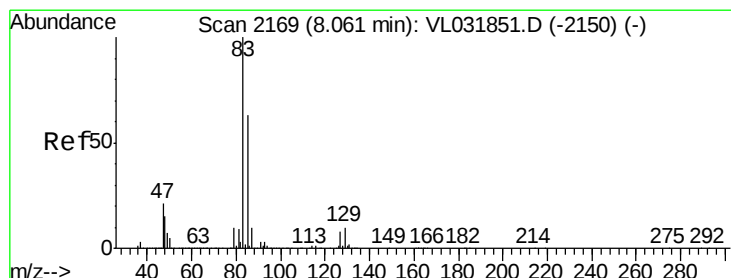
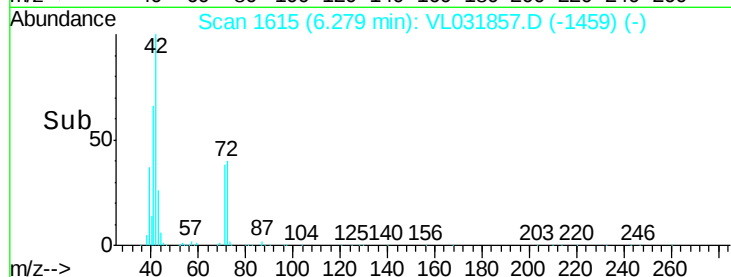
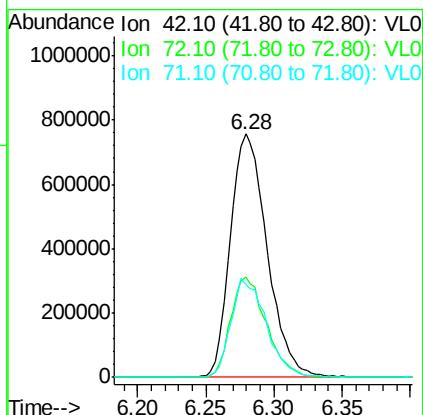
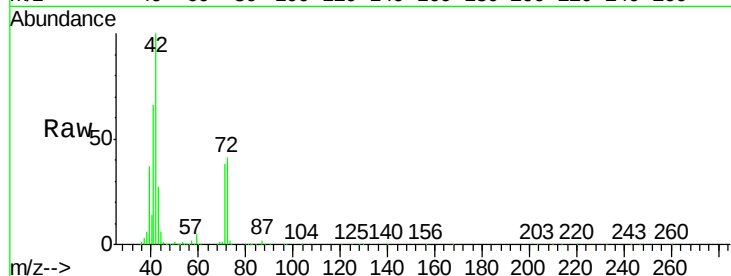
Tgt Ion: 42 Resp: 1416479

Ion Ratio Lower Upper

42 100

72 40.4 32.5 48.7

71 39.1 31.3 46.9



#42

Bromodichloromethane

Concen: 14.33 ppbv

RT: 8.06 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

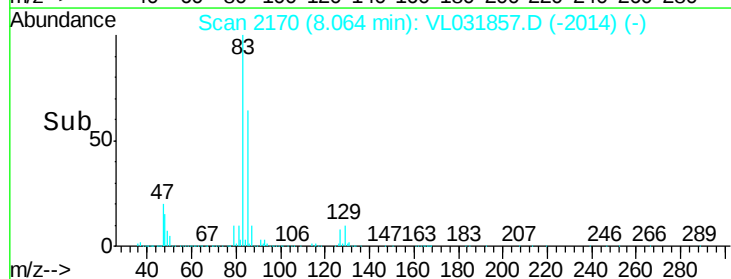
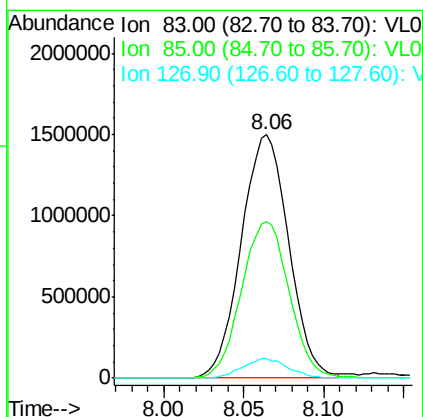
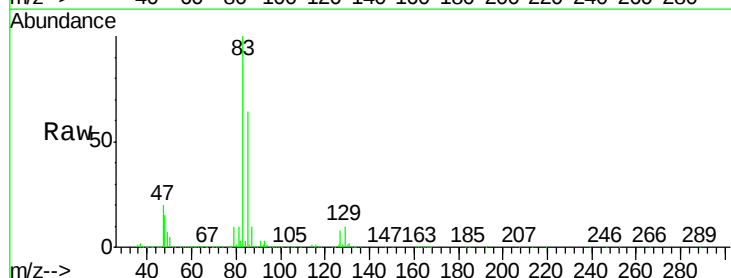
Tgt Ion: 83 Resp: 3037481

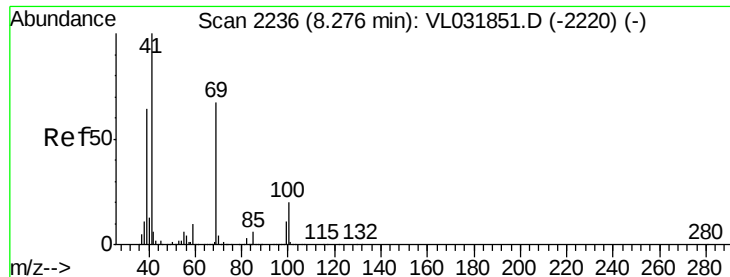
Ion Ratio Lower Upper

83 100

85 64.1 50.3 75.5

127 8.3 6.1 9.1





#43

Methyl Methacrylate

Concen: 14.04 ppbv

RT: 8.28 min Scan# 2237

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

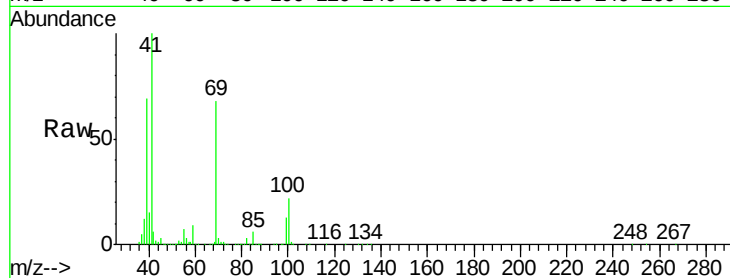
Tgt Ion: 69 Resp: 1328545

Ion Ratio Lower Upper

69 100

41 148.1 119.8 179.8

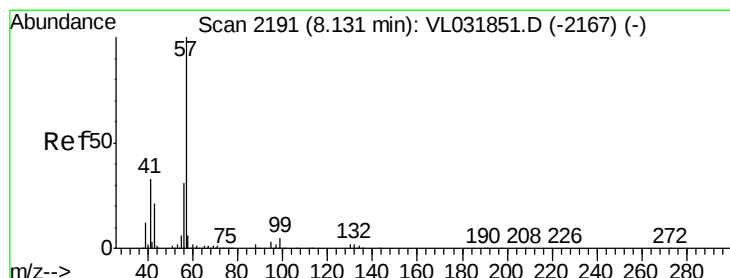
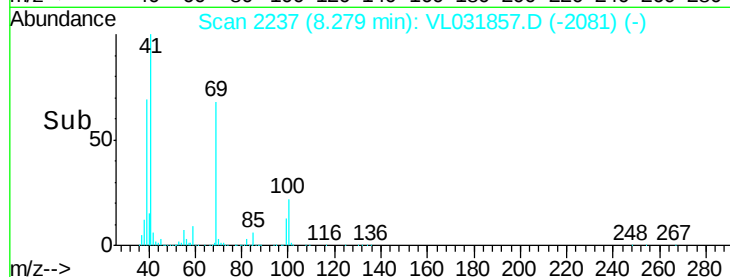
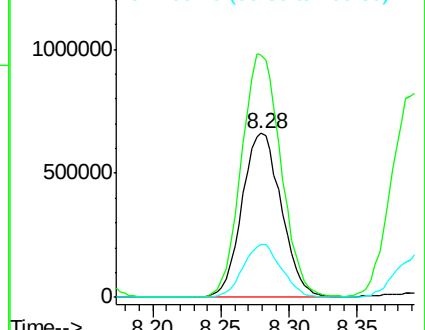
100 31.5 24.9 37.3



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 13.51 ppbv

RT: 8.13 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

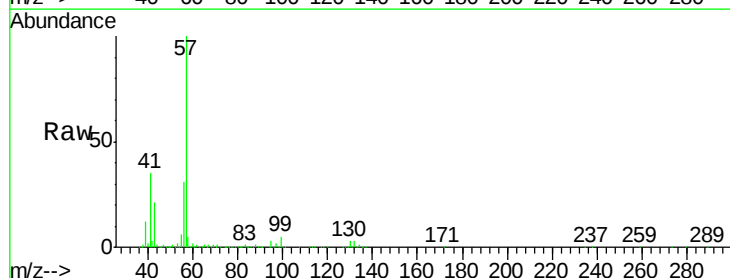
Tgt Ion: 57 Resp: 5895805

Ion Ratio Lower Upper

57 100

41 34.2 26.5 39.7

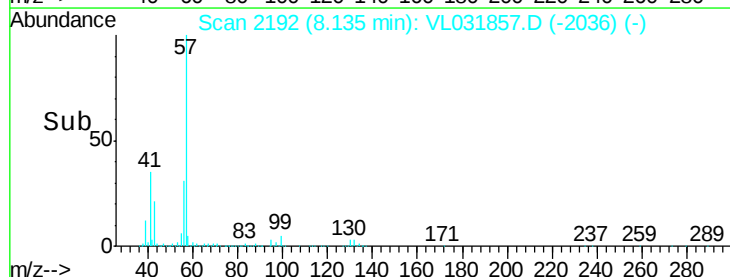
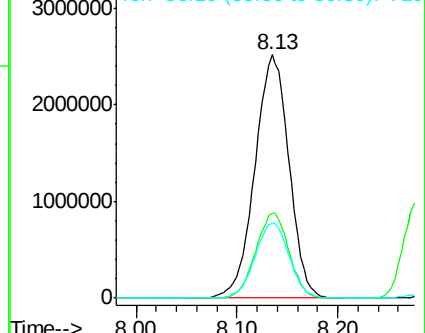
56 30.9 24.2 36.4

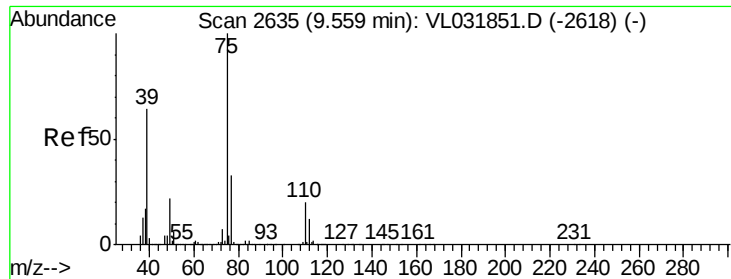


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 14.92 ppbv

RT: 9.57 min Scan# 2637

Delta R.T. 0.01 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

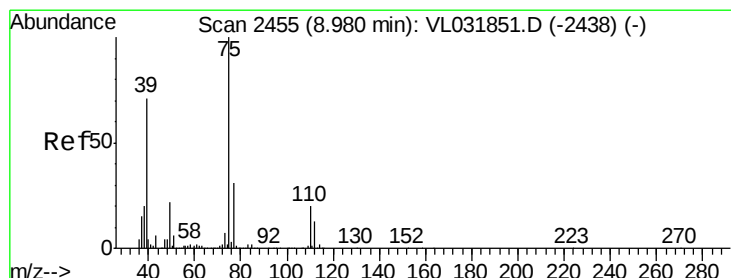
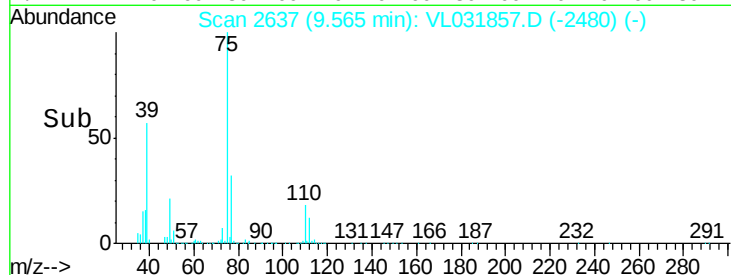
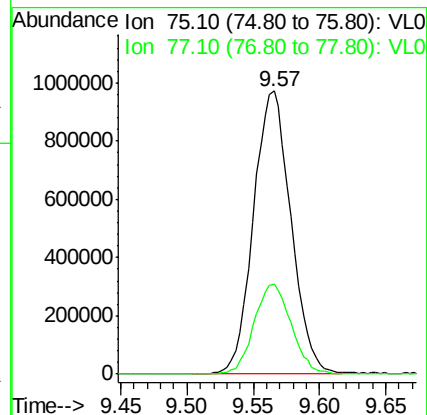
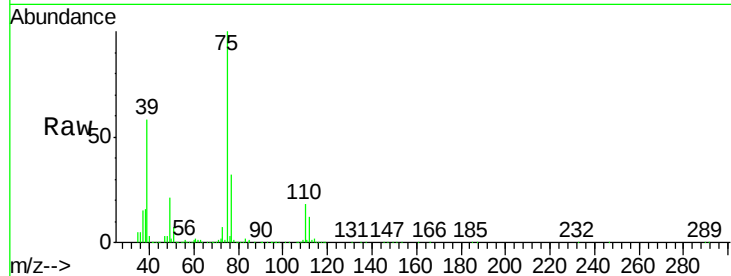
VSTDIC015

Tgt Ion: 75 Resp: 1913267

Ion Ratio Lower Upper

75 100

77 31.8 26.2 39.4



#46

cis-1,3-Dichloropropene

Concen: 14.19 ppbv

RT: 8.98 min Scan# 2456

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

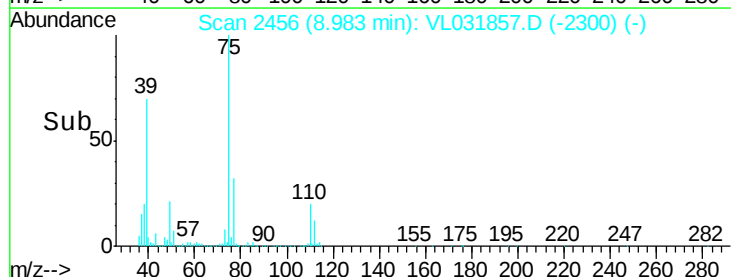
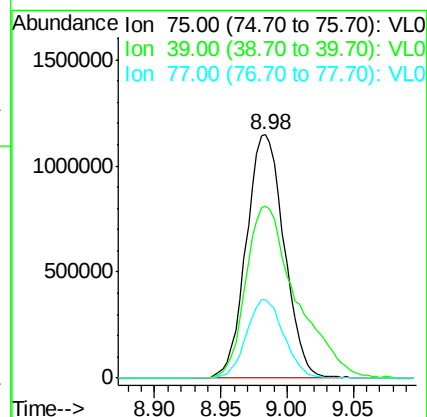
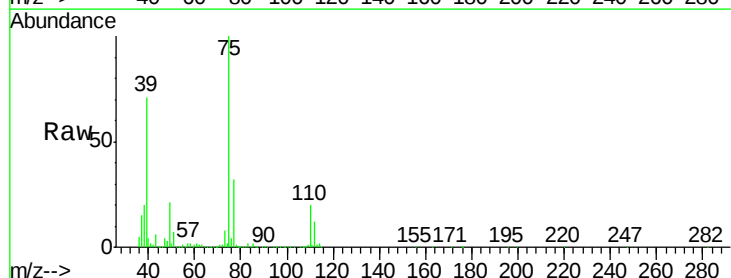
Tgt Ion: 75 Resp: 2274289

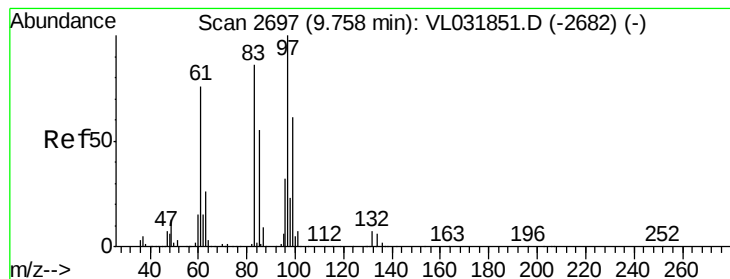
Ion Ratio Lower Upper

75 100

39 70.5 56.9 85.3

77 32.3 25.1 37.7





#47

1,1,2-Trichloroethane

Concen: 13.59 ppbv

RT: 9.76 min Scan# 2699

Delta R.T. 0.01 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 1502986

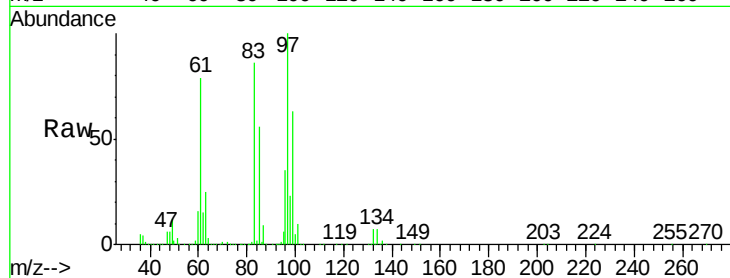
Ion Ratio Lower Upper

97 100

83 86.3 68.4 102.6

85 55.8 44.5 66.7

99 62.5 48.6 73.0

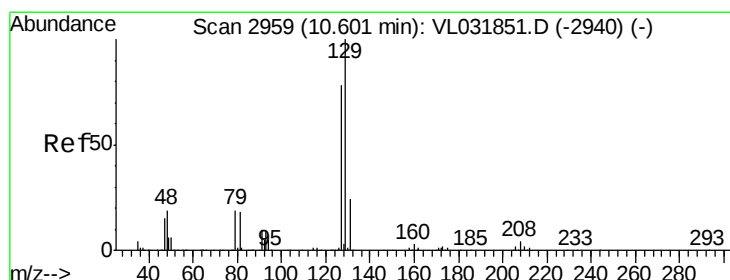
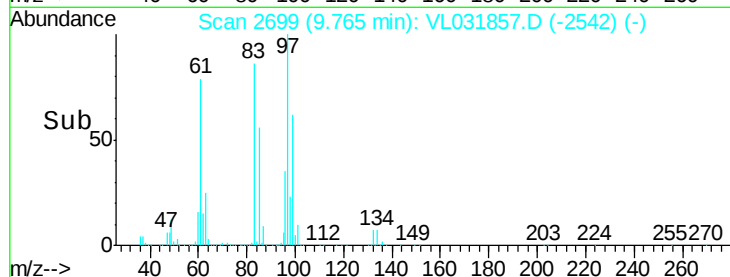
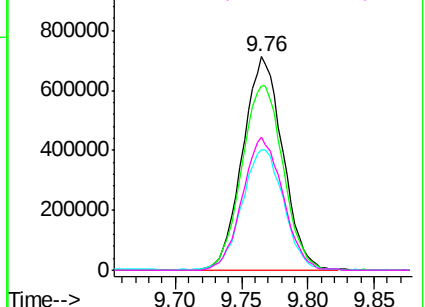


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 14.88 ppbv

RT: 10.60 min Scan# 2960

Delta R.T. 0.00 min

Lab File: VL031857.D

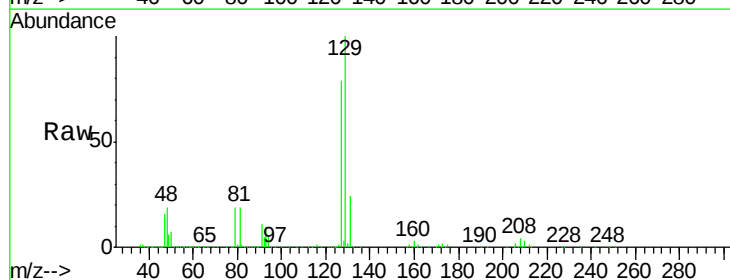
Acq: 12 Apr 2018 4:07

Tgt Ion: 129 Resp: 2561681

Ion Ratio Lower Upper

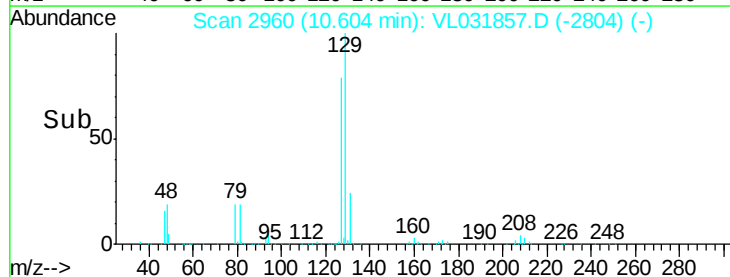
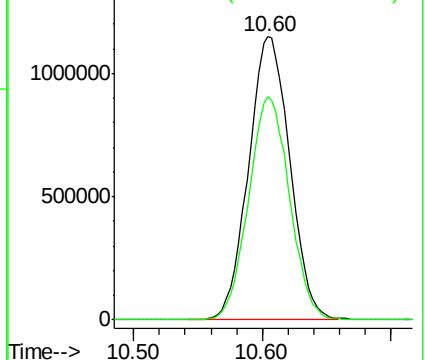
129 100

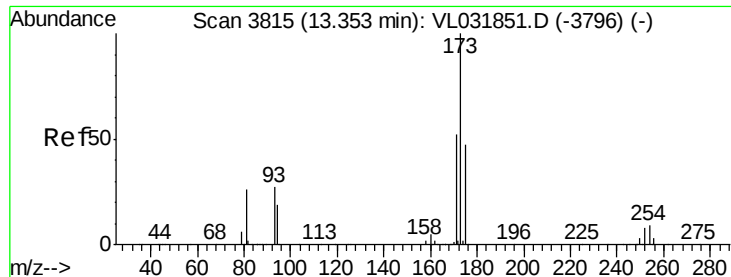
127 78.4 39.1 117.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 16.18 ppbv

RT: 13.36 min Scan# 3817

Delta R.T. 0.01 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

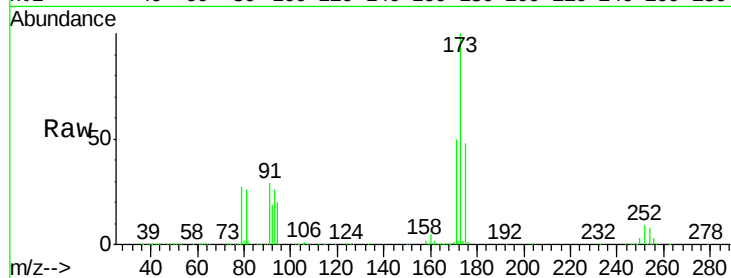
Tgt Ion:173 Resp: 2045980

Ion Ratio Lower Upper

173 100

175 49.0 39.4 59.0

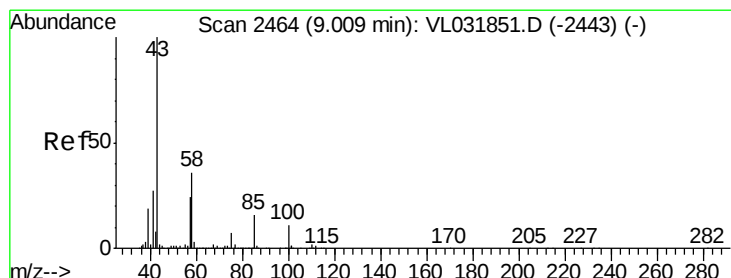
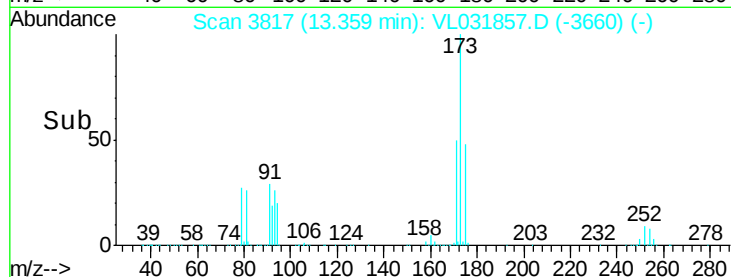
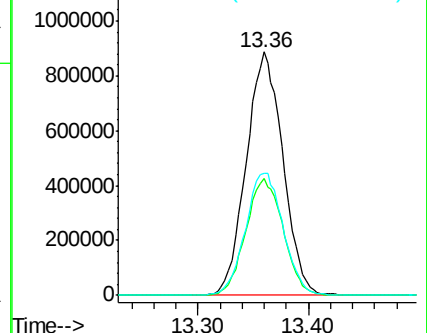
171 51.5 42.2 63.2



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: 13.77 ppbv

RT: 9.02 min Scan# 2466

Delta R.T. 0.01 min

Lab File: VL031857.D

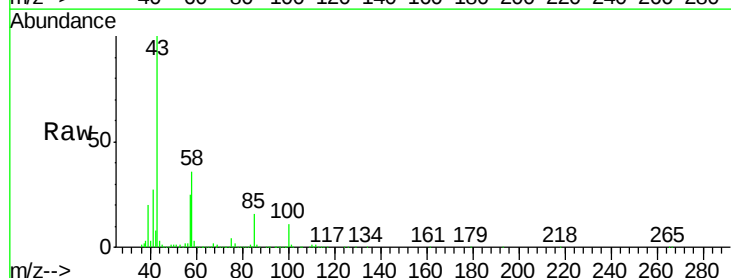
Acq: 12 Apr 2018 4:07

Tgt Ion: 43 Resp: 3111995

Ion Ratio Lower Upper

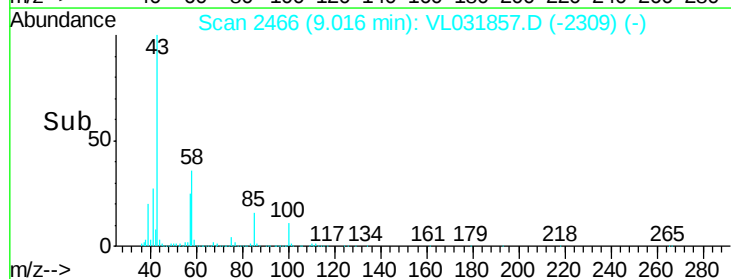
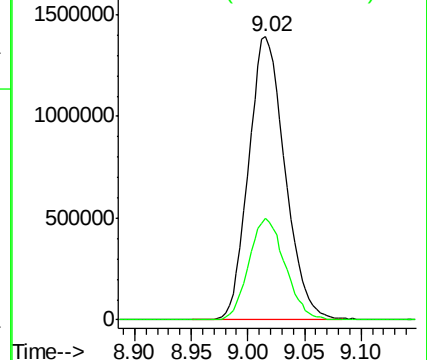
43 100

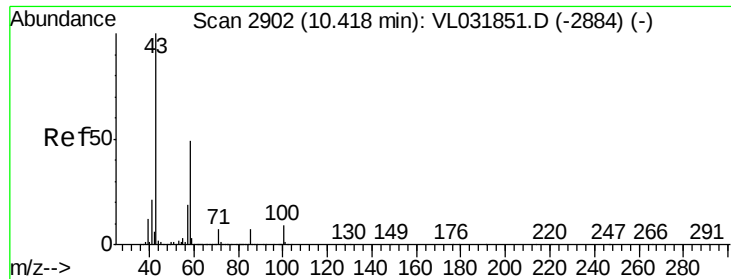
58 36.0 29.1 43.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 13.35 ppbv

RT: 10.42 min Scan# 2903

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

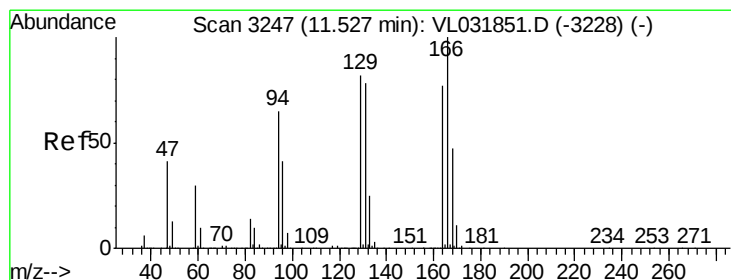
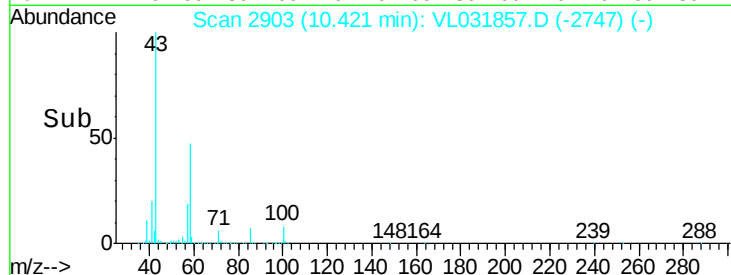
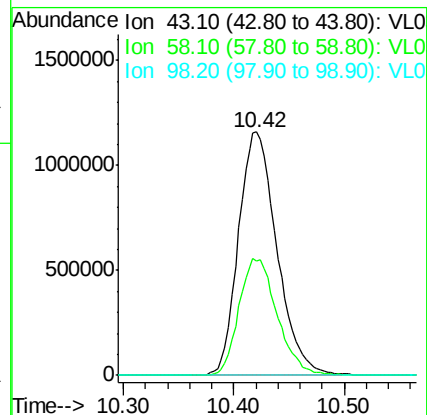
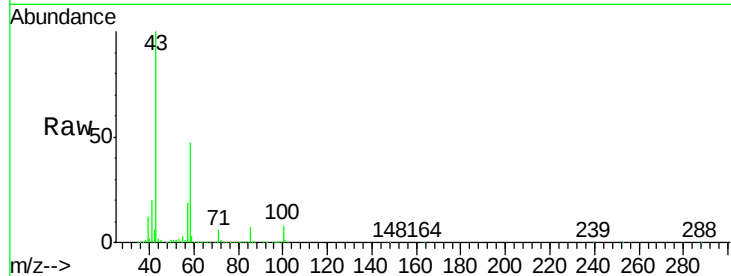
Tgt Ion: 43 Resp: 2791092

Ion Ratio Lower Upper

43 100

58 48.0 38.4 57.6

98 0.3 0.2 0.4



#52

Tetrachloroethene

Concen: 12.04 ppbv

RT: 11.52 min Scan# 3246

Delta R.T. -0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Tgt Ion: 164 Resp: 1301846

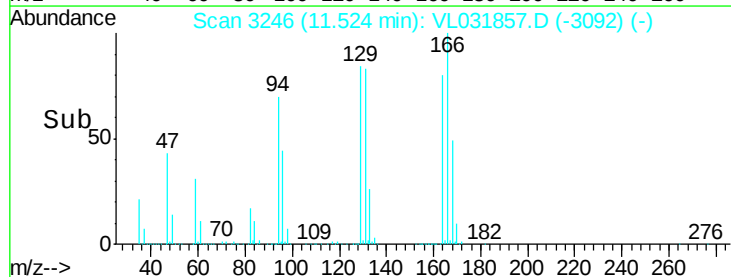
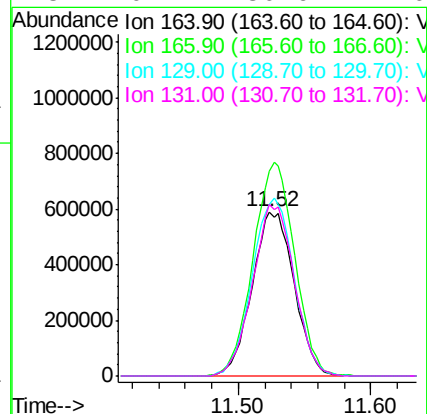
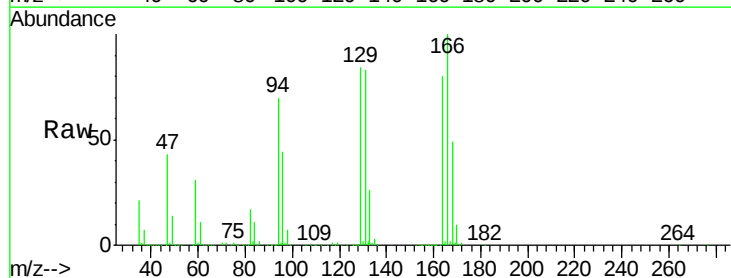
Ion Ratio Lower Upper

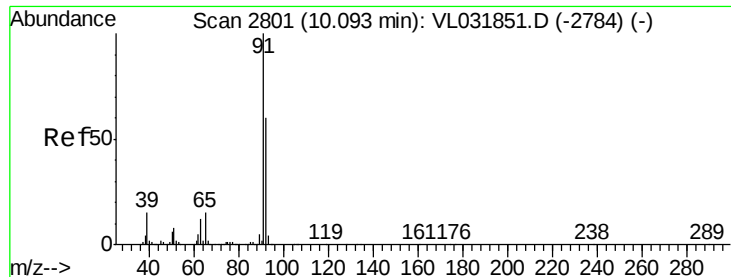
164 100

166 125.2 103.3 154.9

129 104.7 84.2 126.4

131 104.4 80.6 121.0





#53

Toluene

Concen: 13.68 ppbv

RT: 10.10 min Scan# 2802

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

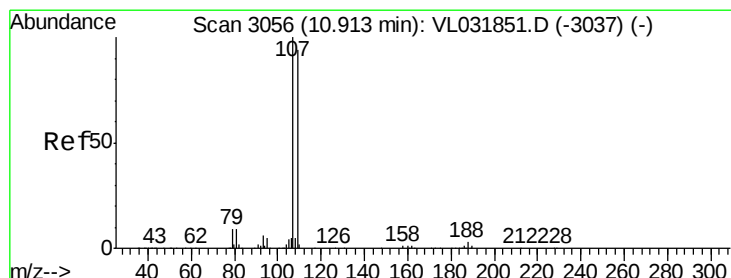
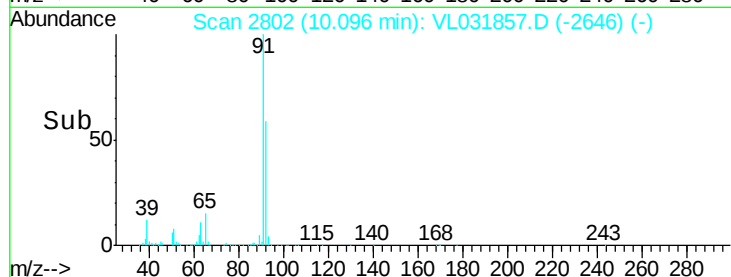
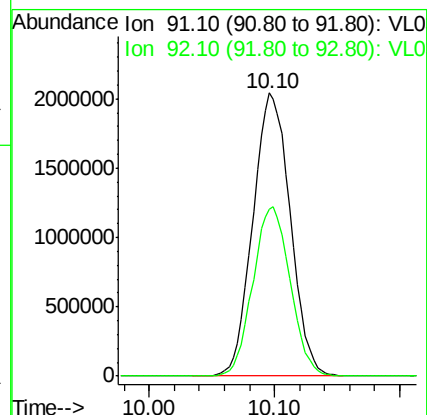
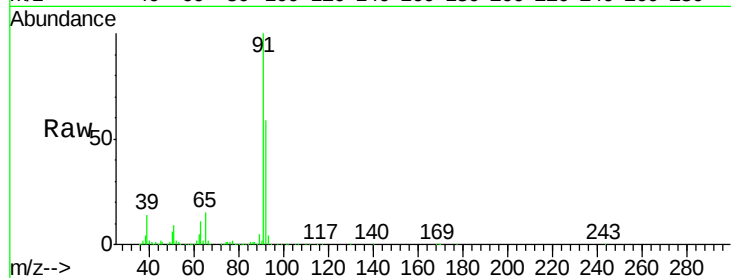
VSTDIC015

Tgt Ion: 91 Resp: 4231961

Ion Ratio Lower Upper

91 100

92 59.8 47.2 70.8



#54

1,2-Dibromoethane

Concen: 13.64 ppbv

RT: 10.91 min Scan# 3056

Delta R.T. -0.00 min

Lab File: VL031857.D

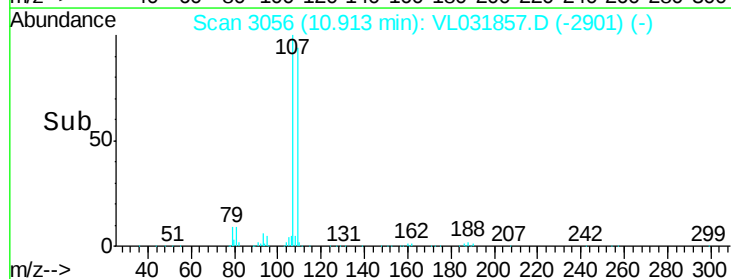
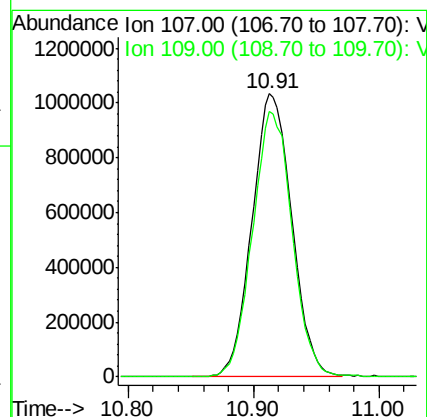
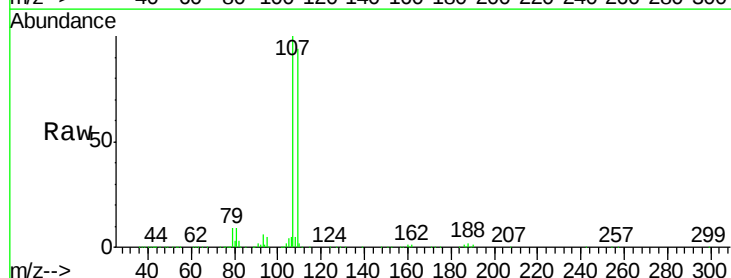
Acq: 12 Apr 2018 4:07

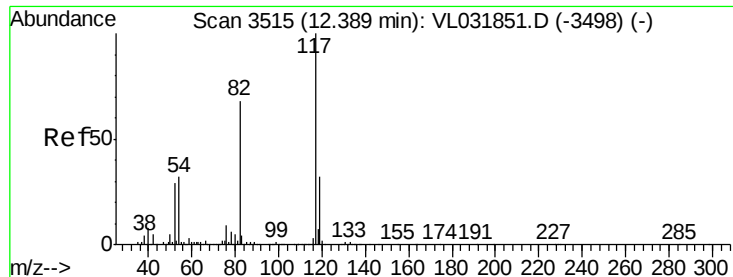
Tgt Ion: 107 Resp: 2278904

Ion Ratio Lower Upper

107 100

109 93.9 75.1 112.7





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.39 min Scan# 3517

Delta R.T. 0.01 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

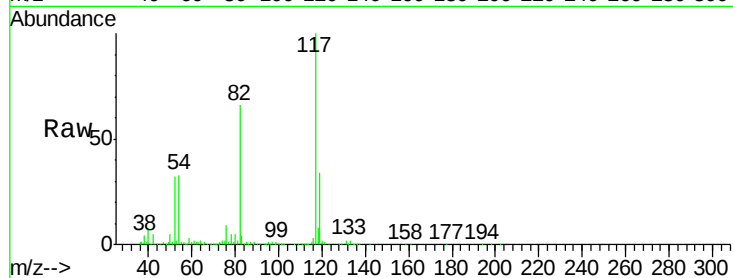
Tgt Ion:117 Resp: 3266569

Ion Ratio Lower Upper

117 100

82 62.5 52.9 79.3

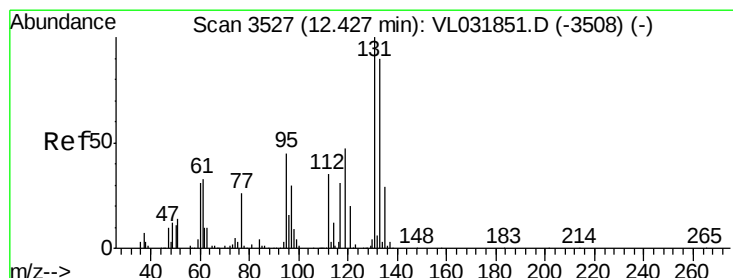
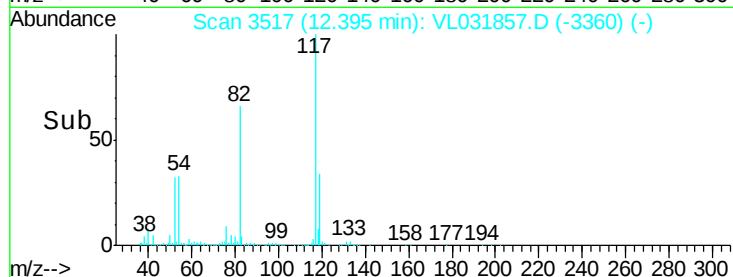
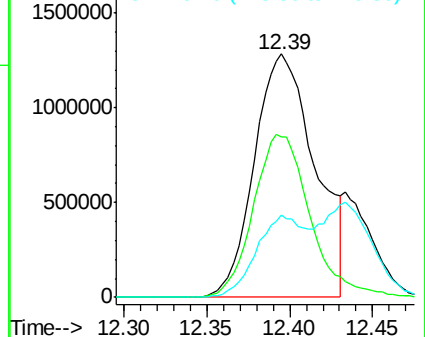
119 28.8 43.8 65.6#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 11.65 ppbv

RT: 12.43 min Scan# 3529

Delta R.T. 0.01 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

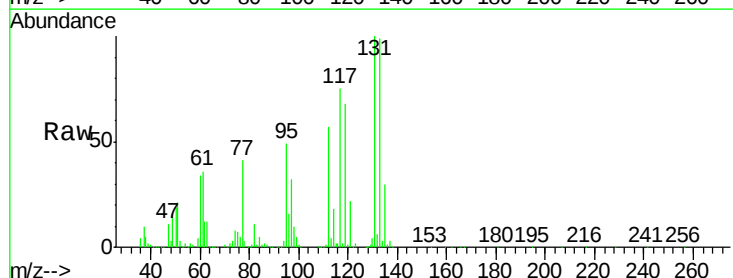
Tgt Ion:131 Resp: 1753294

Ion Ratio Lower Upper

131 100

133 95.3 75.9 113.9

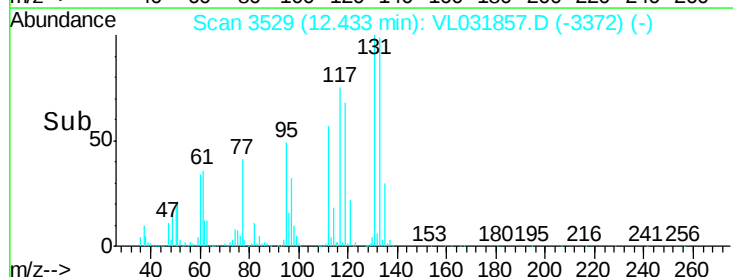
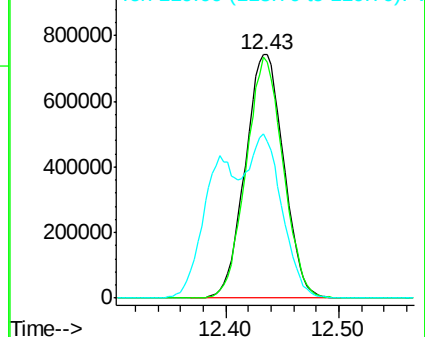
119 59.3 106.7 160.1#

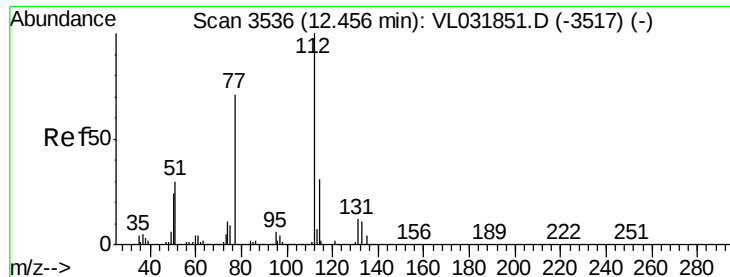


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 10.84 ppbv

RT: 12.46 min Scan# 3536

Delta R.T. -0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

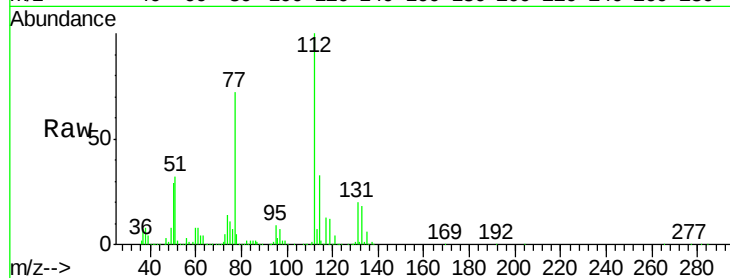
Tgt Ion: 112 Resp: 3179916

Ion Ratio Lower Upper

112 100

77 71.4 58.2 87.2

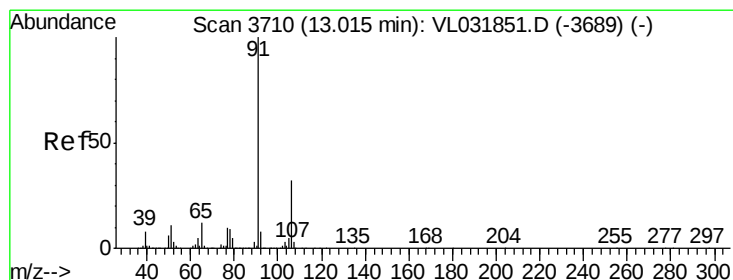
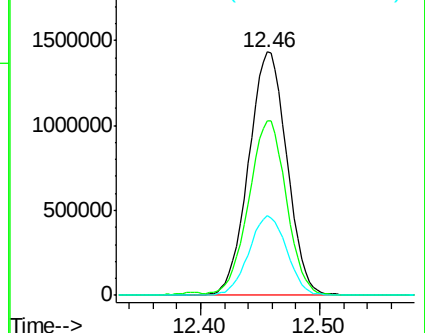
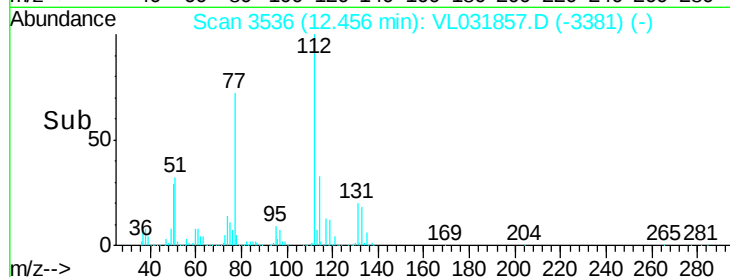
114 32.5 28.4 34.7



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: 11.27 ppbv

RT: 13.02 min Scan# 3711

Delta R.T. 0.00 min

Lab File: VL031857.D

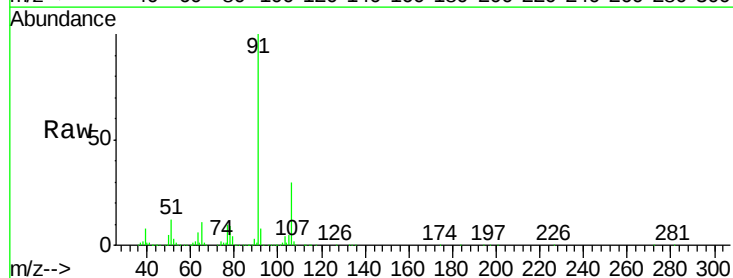
Acq: 12 Apr 2018 4:07

Tgt Ion: 91 Resp: 5866330

Ion Ratio Lower Upper

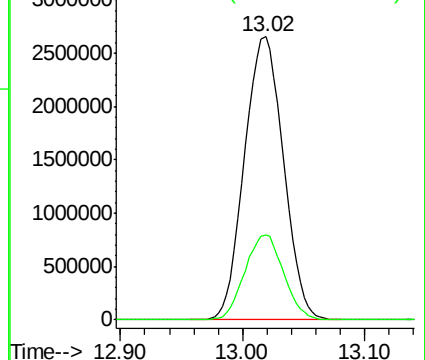
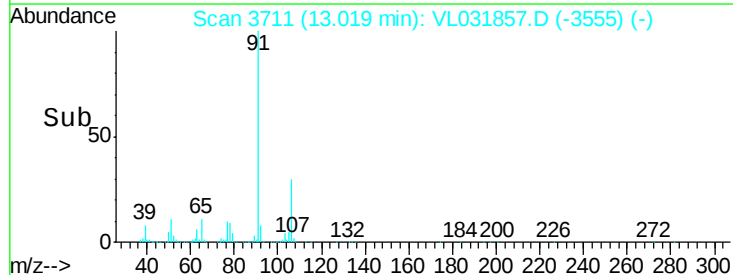
91 100

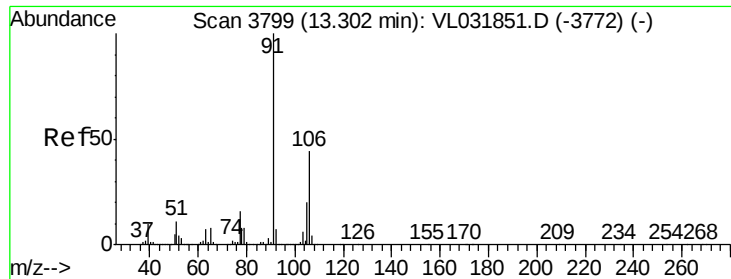
106 29.8 25.4 38.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

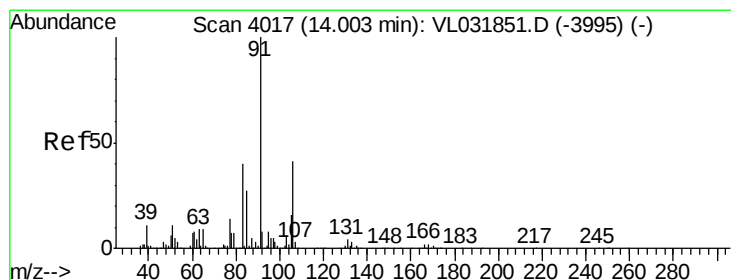
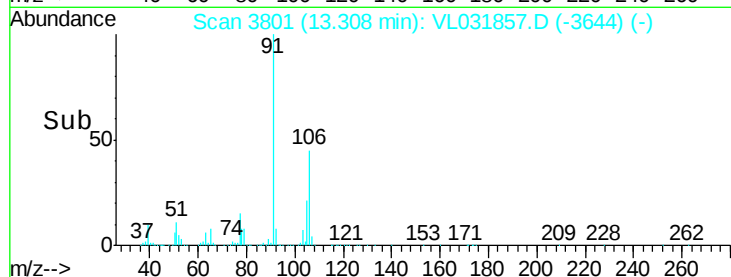
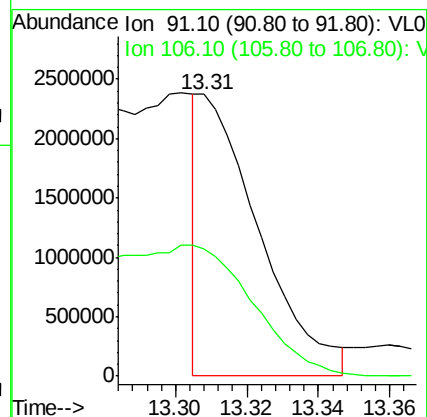
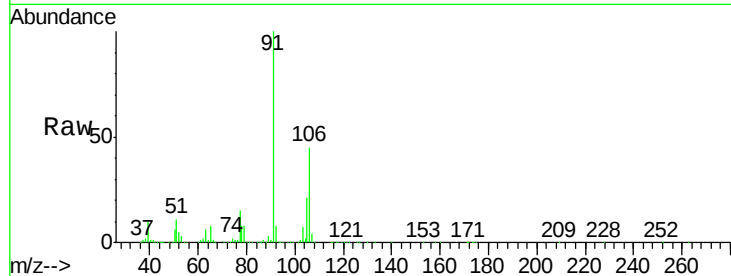




#59
m/p-Xylene
Concen: 6.34 ppbv
RT: 13.31 min Scan# 3801
Delta R.T. 0.01 min
Lab File: VL031857.D
Acq: 12 Apr 2018 4:07

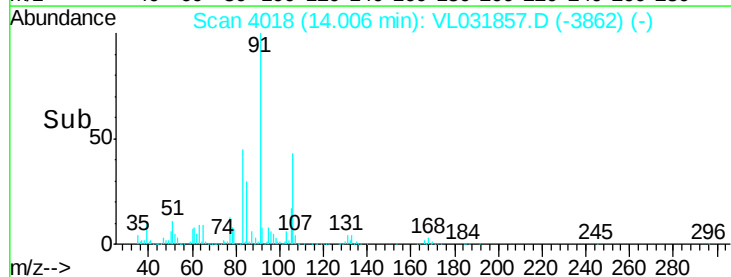
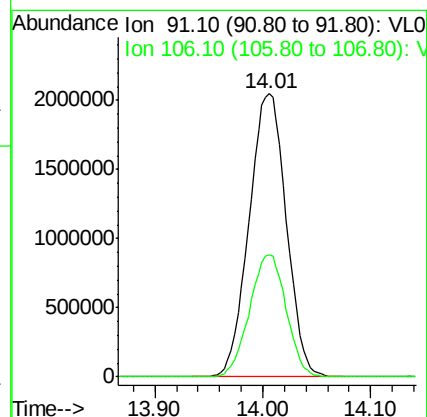
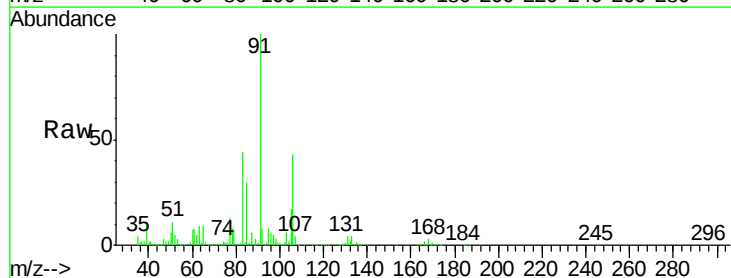
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

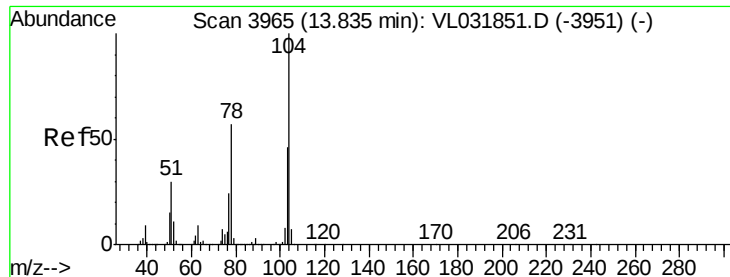
Tgt Ion: 91 Resp: 2720408
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0



#60
o-Xylene
Concen: 11.32 ppbv
RT: 14.01 min Scan# 4018
Delta R.T. 0.00 min
Lab File: VL031857.D
Acq: 12 Apr 2018 4:07

Tgt Ion: 91 Resp: 4906936
Ion Ratio Lower Upper
91 100
106 42.6 21.0 63.0





#61

Styrene

Concen: 12.02 ppbv

RT: 13.84 min Scan# 3966

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

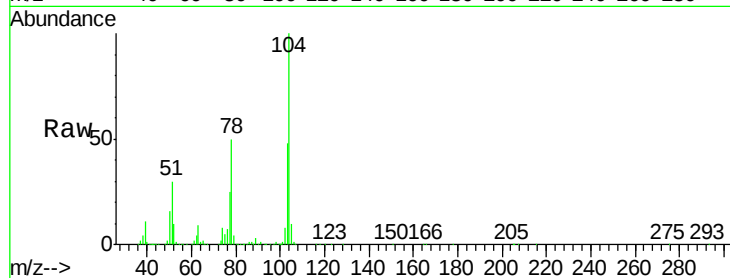
Tgt Ion:104 Resp: 1153381

Ion Ratio Lower Upper

104 100

78 55.0 44.6 66.8

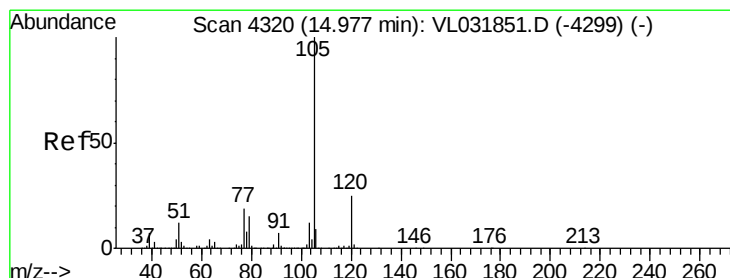
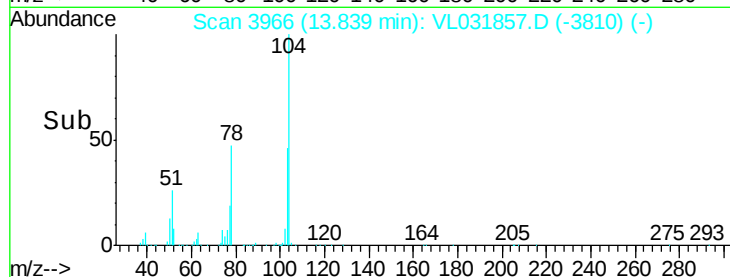
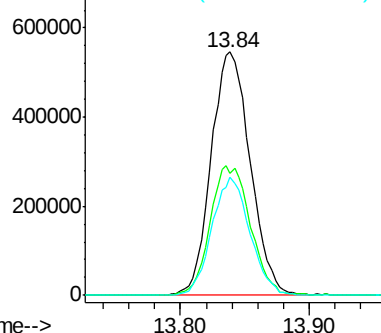
103 47.3 37.9 56.9



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: 11.22 ppbv

RT: 14.98 min Scan# 4321

Delta R.T. 0.00 min

Lab File: VL031857.D

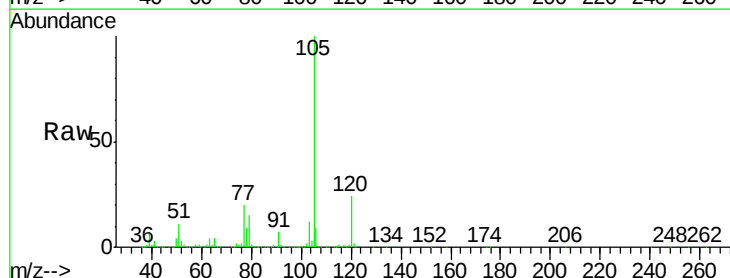
Acq: 12 Apr 2018 4:07

Tgt Ion:105 Resp: 6163971

Ion Ratio Lower Upper

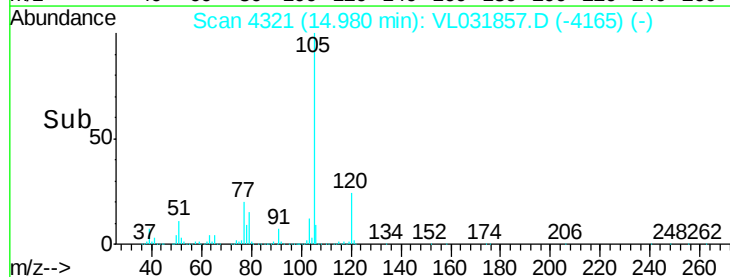
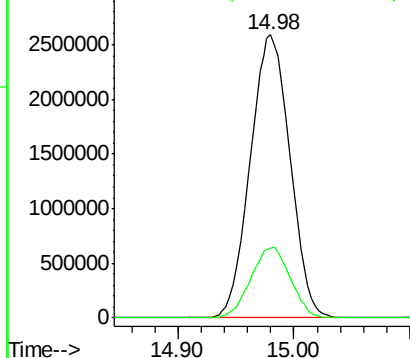
105 100

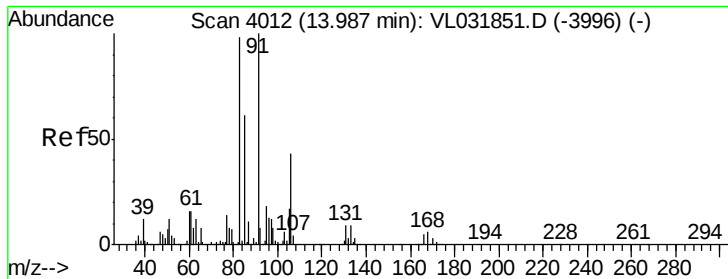
120 24.9 19.8 29.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

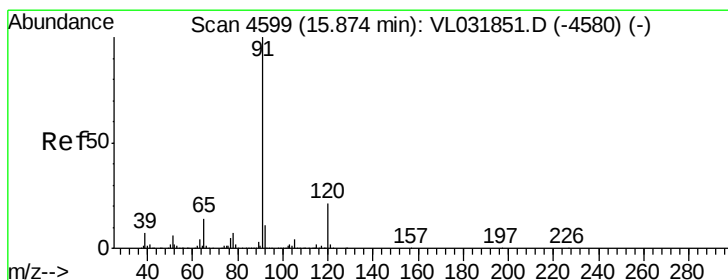
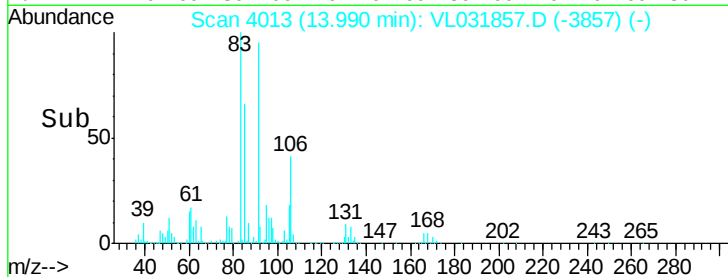
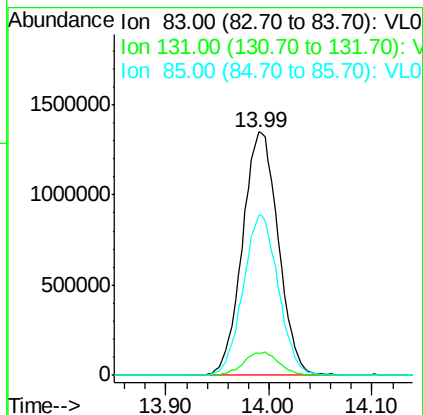
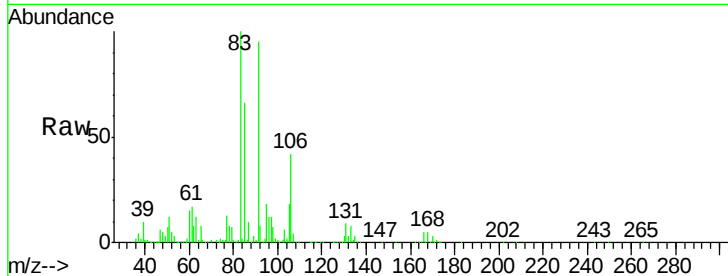




#63
 1,1,2,2-Tetrachloroethane
 Concen: 11.50 ppbv
 RT: 13.99 min Scan# 4013
 Delta R.T. 0.00 min
 Lab File: VL031857.D
 Acq: 12 Apr 2018 4:07

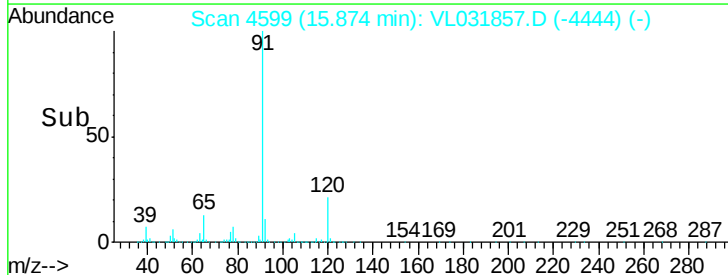
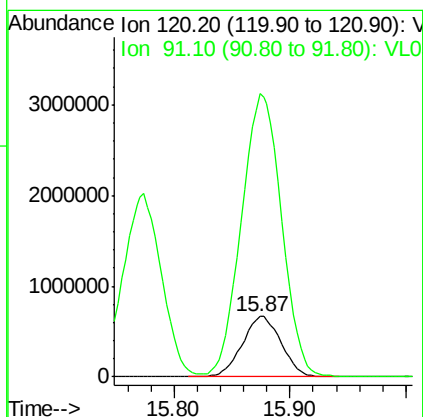
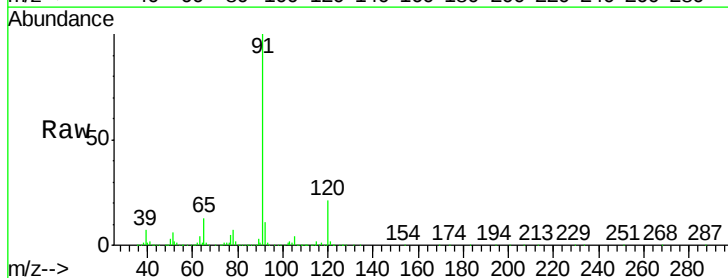
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

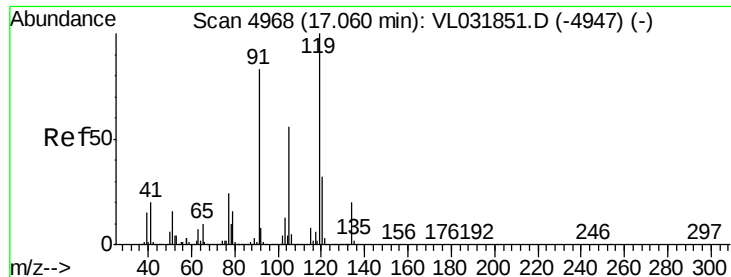
Tgt Ion: 83 Resp: 3257200
 Ion Ratio Lower Upper
 83 100
 131 9.3 4.8 14.4
 85 64.9 32.8 98.4



#64
 n-propylbenzene
 Concen: 11.75 ppbv
 RT: 15.87 min Scan# 4599
 Delta R.T. -0.00 min
 Lab File: VL031857.D
 Acq: 12 Apr 2018 4:07

Tgt Ion: 120 Resp: 1553284
 Ion Ratio Lower Upper
 120 100
 91 483.5 397.3 595.9

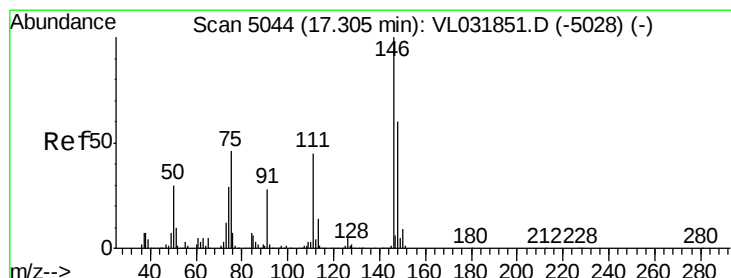
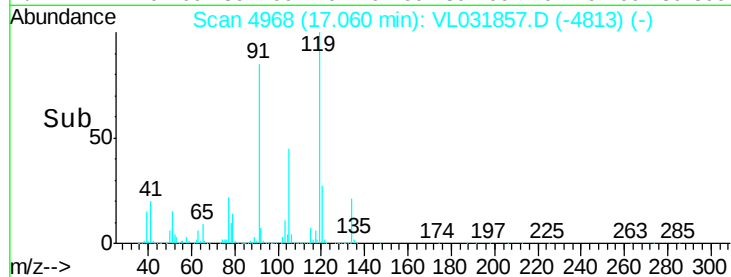
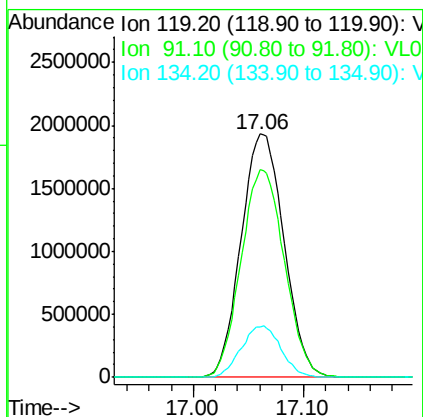
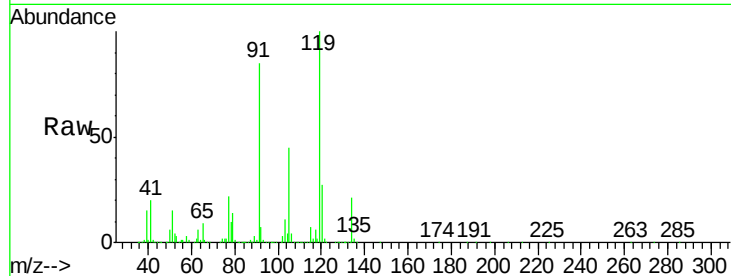




#65
tert-Butylbenzene
Concen: 11.08 ppbv
RT: 17.06 min Scan# 4968
Delta R.T. -0.00 min
Lab File: VL031857.D
Acq: 12 Apr 2018 4:07

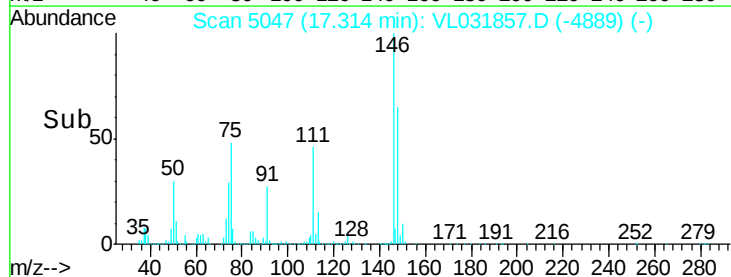
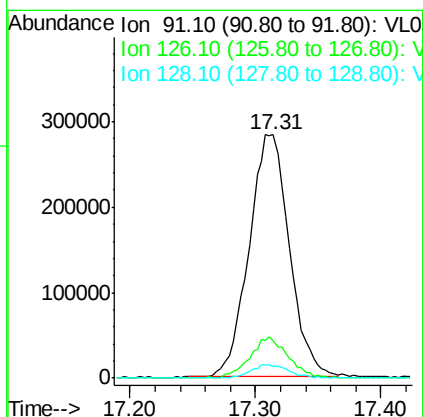
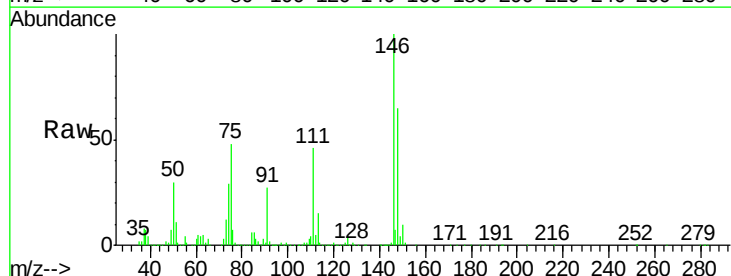
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

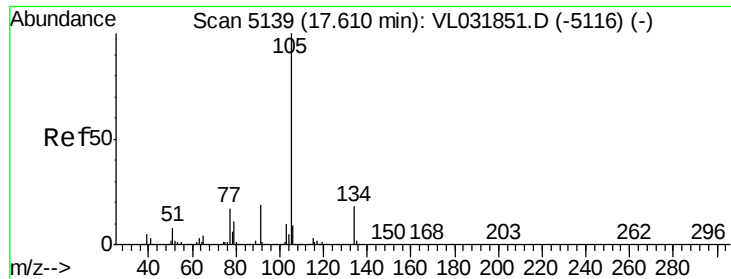
Tgt Ion:119 Resp: 5211204
Ion Ratio Lower Upper
119 100
91 86.4 69.0 103.6
134 19.7 15.4 23.0



#66
Benzyl Chloride
Concen: 15.85 ppbv
RT: 17.31 min Scan# 5047
Delta R.T. 0.01 min
Lab File: VL031857.D
Acq: 12 Apr 2018 4:07

Tgt Ion: 91 Resp: 635932
Ion Ratio Lower Upper
91 100
126 16.3 12.7 19.1
128 5.4 4.1 6.1

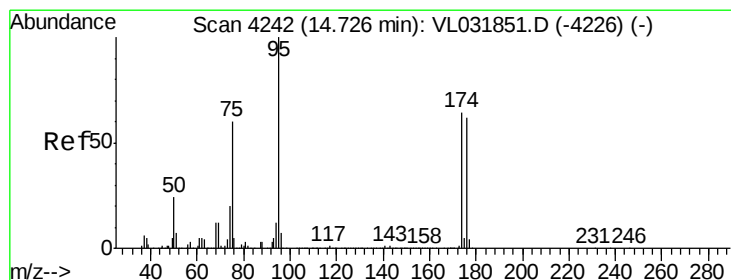
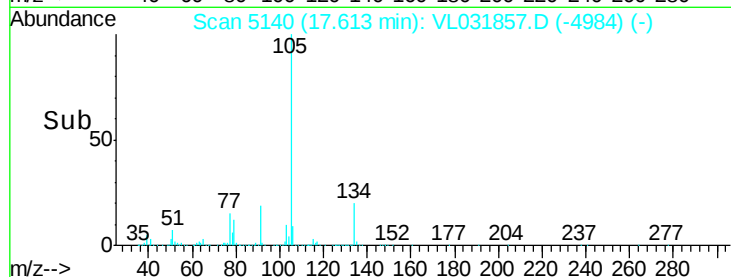
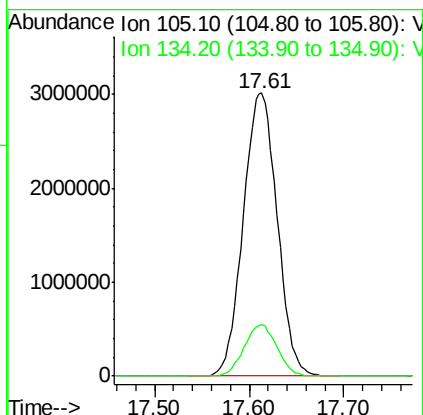
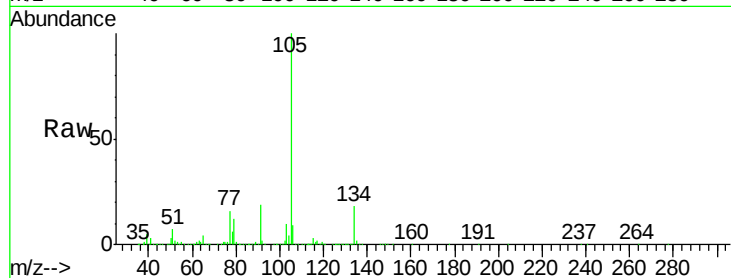




#67
 sec-Butylbenzene
 Concen: 11.41 ppbv
 RT: 17.61 min Scan# 5140
 Delta R.T. 0.00 min
 Lab File: VL031857.D
 Acq: 12 Apr 2018 4:07

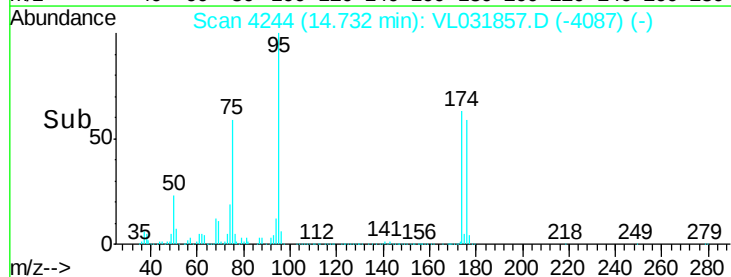
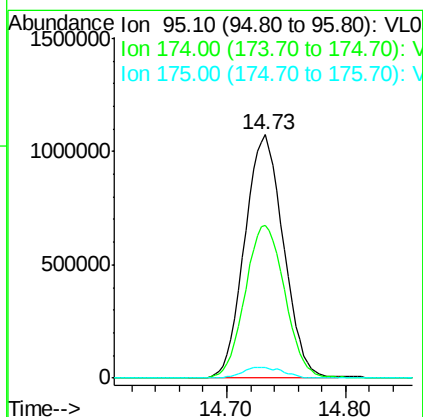
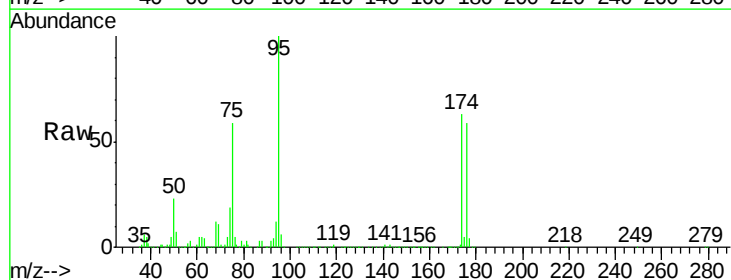
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

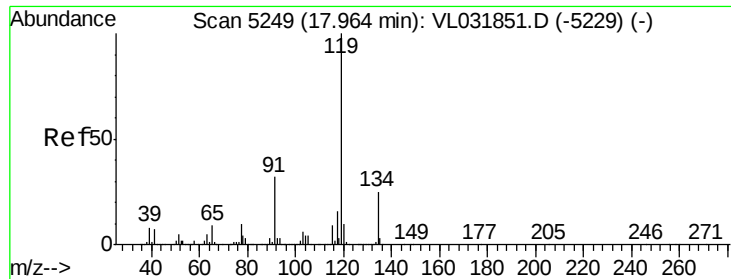
Tgt Ion: 105 Resp: 7485650
 Ion Ratio Lower Upper
 105 100
 134 17.8 14.0 21.0



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.89 ppbv
 RT: 14.73 min Scan# 4244
 Delta R.T. 0.01 min
 Lab File: VL031857.D
 Acq: 12 Apr 2018 4:07

Tgt Ion: 95 Resp: 2427852
 Ion Ratio Lower Upper
 95 100
 174 64.6 52.2 78.2
 175 4.7 3.8 5.8

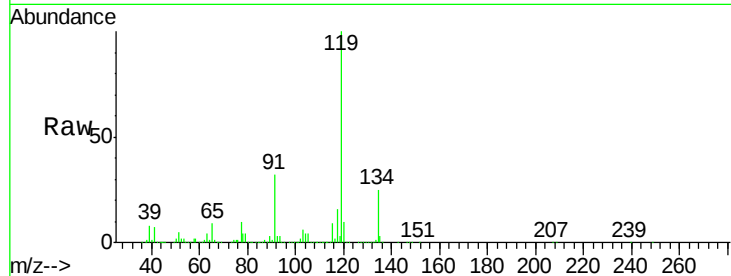




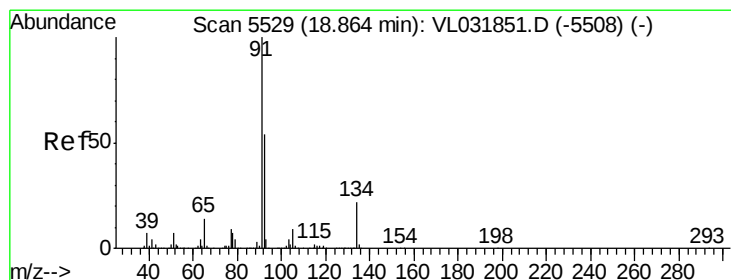
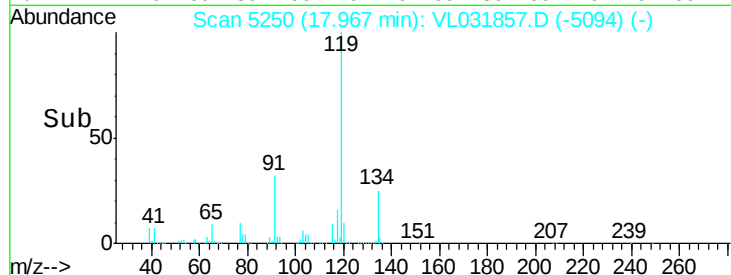
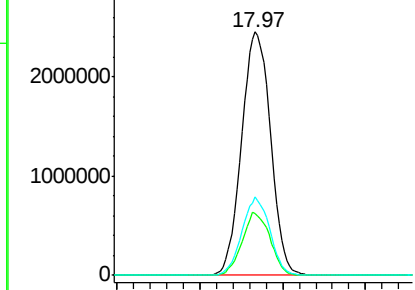
#69
p-Isopropyltoluene
Concen: 11.27 ppbv
RT: 17.97 min Scan# 5250
Delta R.T. 0.00 min
Lab File: VL031857.D
Acq: 12 Apr 2018 4:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 119 Resp: 5943780
Ion Ratio Lower Upper
119 100
134 24.9 19.7 29.5
91 30.9 24.6 37.0

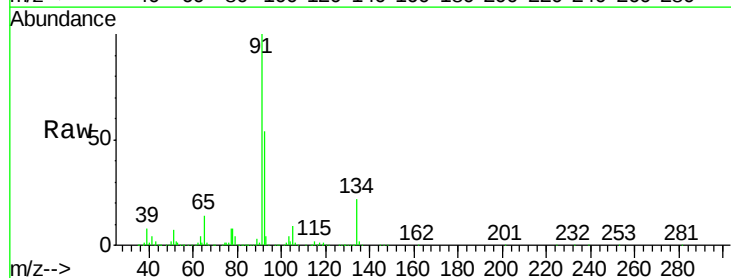


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

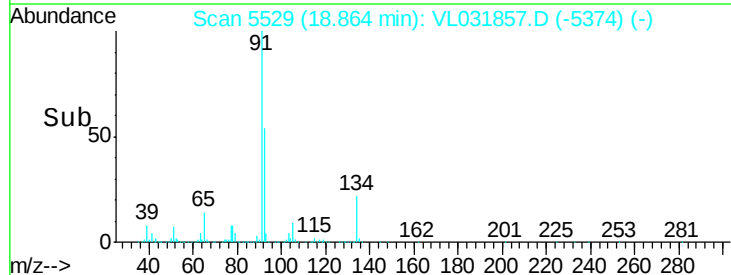
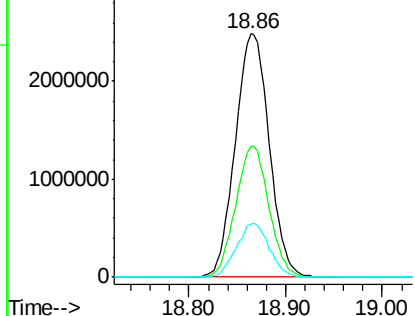


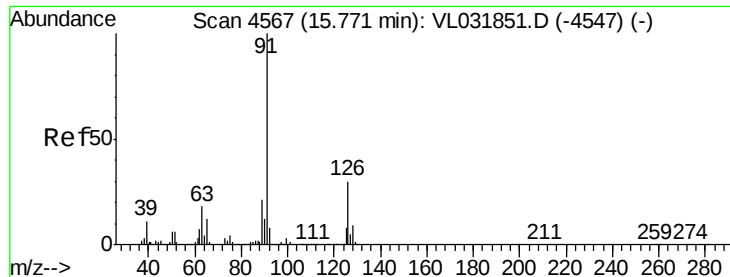
#70
n-Butylbenzene
Concen: 11.61 ppbv
RT: 18.86 min Scan# 5529
Delta R.T. -0.00 min
Lab File: VL031857.D
Acq: 12 Apr 2018 4:07

Tgt Ion: 91 Resp: 6048912
Ion Ratio Lower Upper
91 100
92 52.8 42.2 63.4
134 21.5 17.2 25.8



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





#71

2-Chlorotoluene

Concen: 11.27 ppbv

RT: 15.77 min Scan# 4568

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

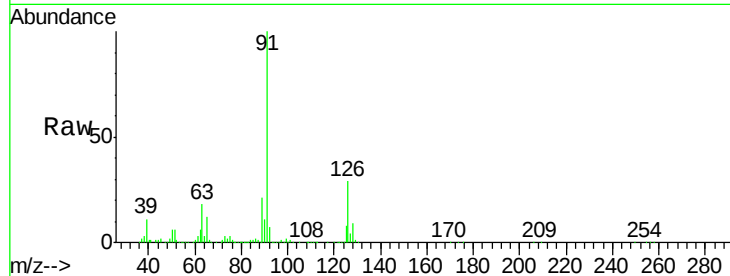
VSTDIC015

Tgt Ion: 91 Resp: 4640644

Ion Ratio Lower Upper

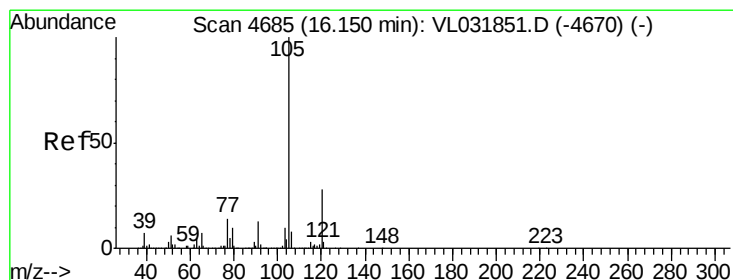
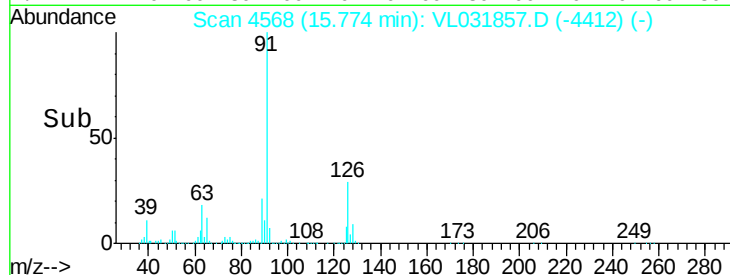
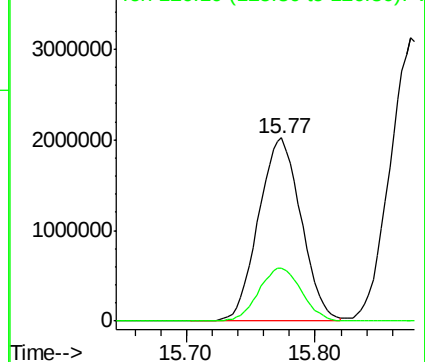
91 100

126 29.2 11.5 45.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 11.64 ppbv

RT: 16.15 min Scan# 4686

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Tgt Ion: 105 Resp: 5061665

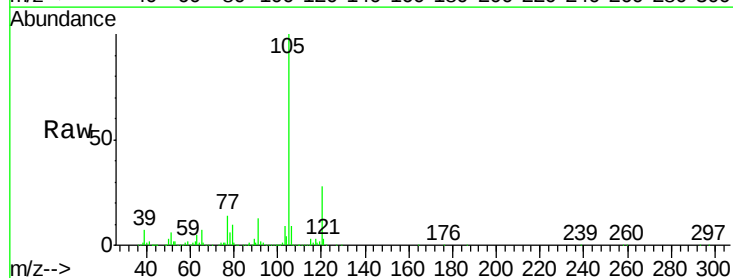
Ion Ratio Lower Upper

105 100

120 28.5 22.6 33.8

91 13.4 10.7 16.1

77 14.4 11.7 17.5

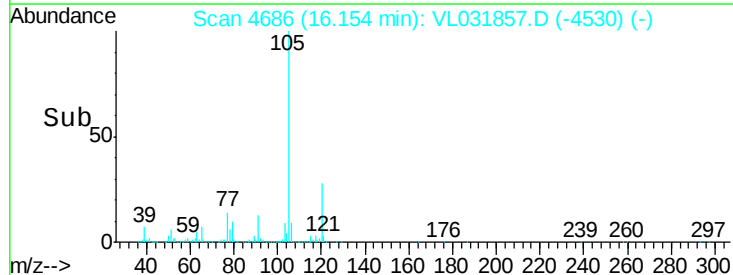
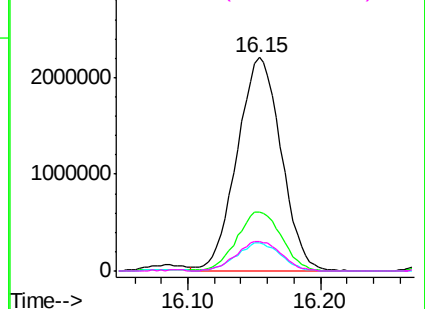


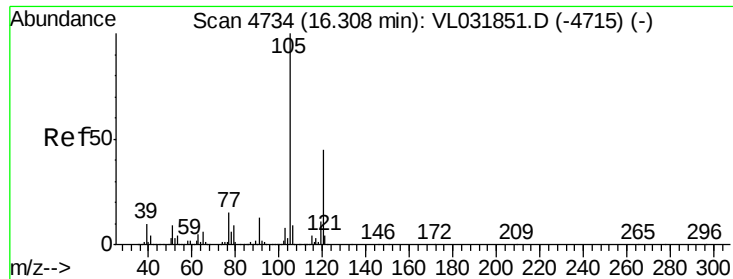
Abundance Ion 105.10 (104.80 to 105.80): V

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

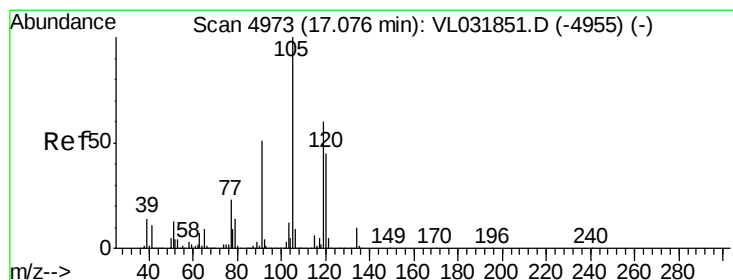
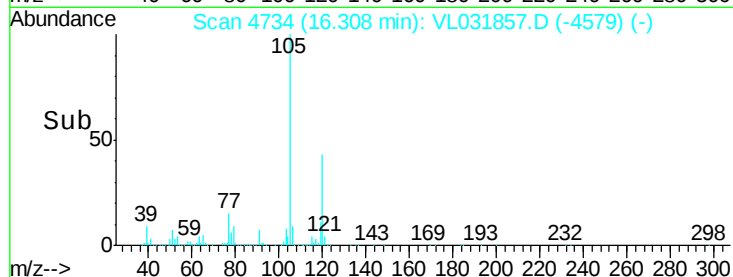
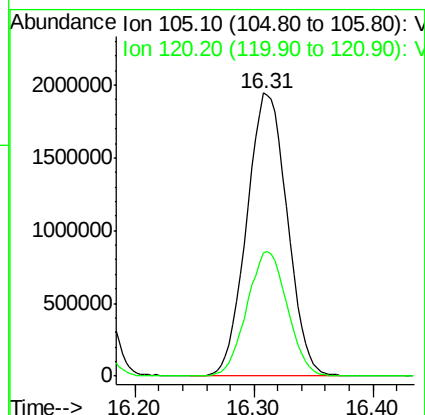
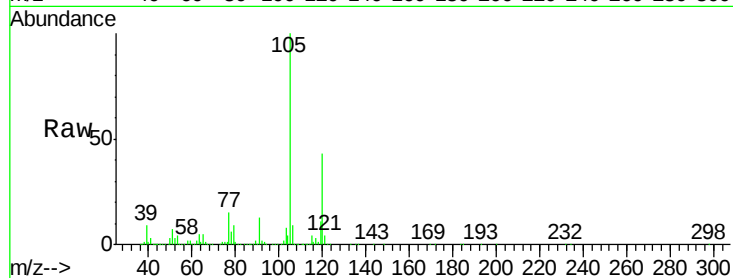




#73
 1,3,5-Trimethylbenzene
 Concen: 11.59 ppbv
 RT: 16.31 min Scan# 4734
 Delta R.T. -0.00 min
 Lab File: VL031857.D
 Acq: 12 Apr 2018 4:07

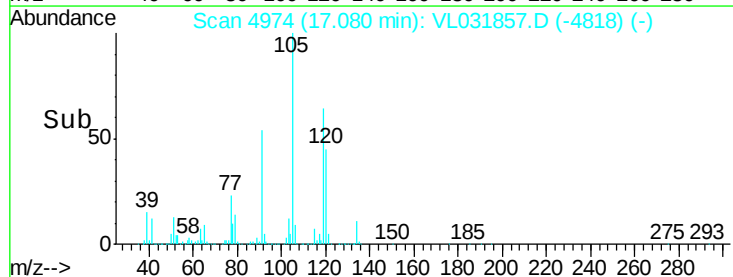
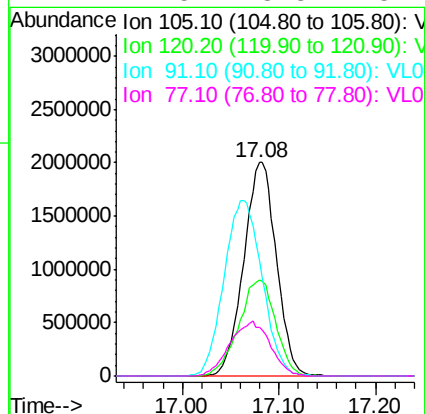
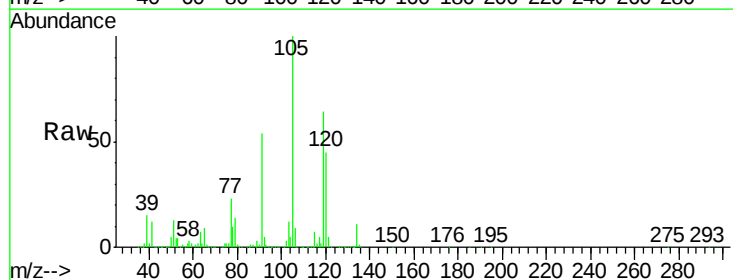
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

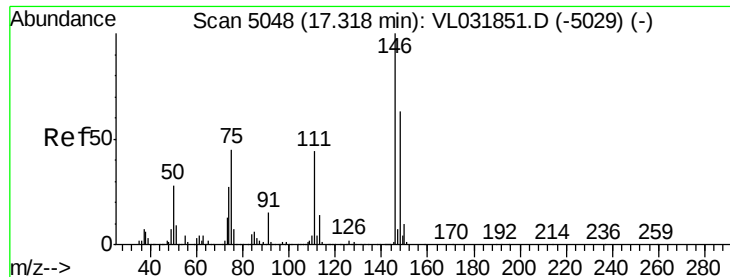
Tgt Ion:105 Resp: 4575901
 Ion Ratio Lower Upper
 105 100
 120 43.4 36.3 54.5



#74
 1,2,4-Trimethylbenzene
 Concen: 11.07 ppbv
 RT: 17.08 min Scan# 4974
 Delta R.T. 0.00 min
 Lab File: VL031857.D
 Acq: 12 Apr 2018 4:07

Tgt Ion:105 Resp: 4700005
 Ion Ratio Lower Upper
 105 100
 120 44.8 36.2 54.4
 91 54.0 43.3 64.9
 77 22.5 18.8 28.2





#75

1,3-Dichlorobenzene

Concen: 10.96 ppbv

RT: 17.32 min Scan# 5050

Delta R.T. 0.01 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

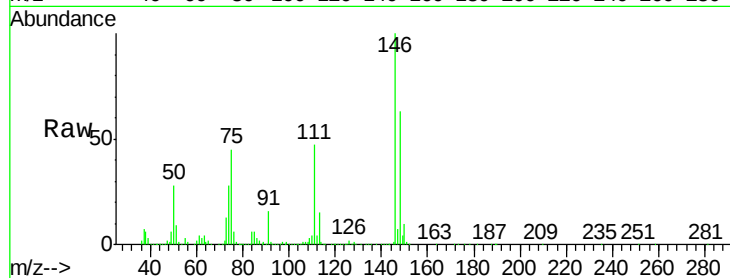
Tgt Ion:146 Resp: 2846640

Ion Ratio Lower Upper

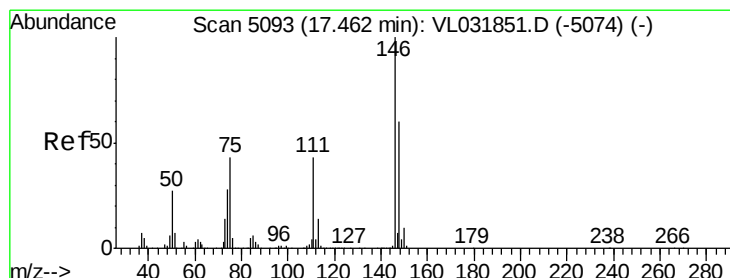
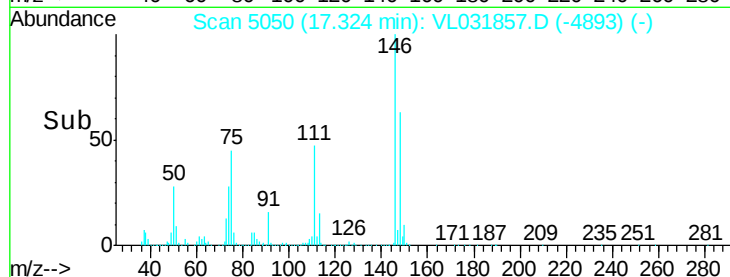
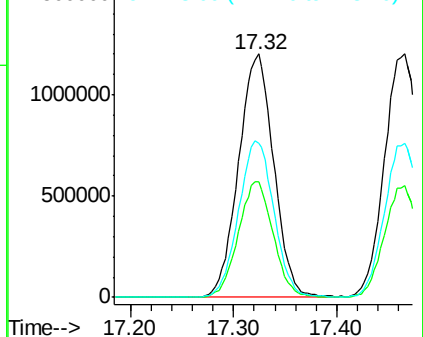
146 100

111 47.1 23.4 70.0

148 64.6 32.1 96.5



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: 10.78 ppbv

RT: 17.47 min Scan# 5094

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

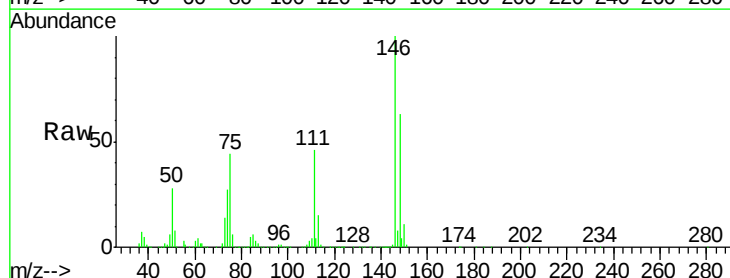
Tgt Ion:146 Resp: 2846235

Ion Ratio Lower Upper

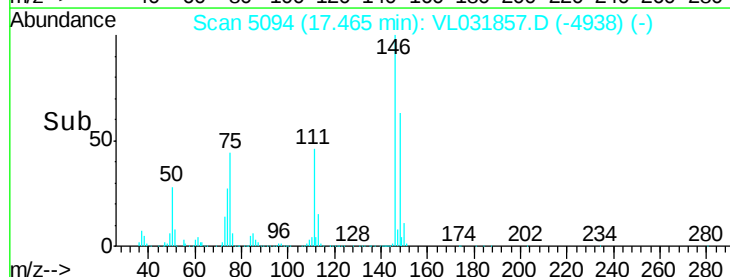
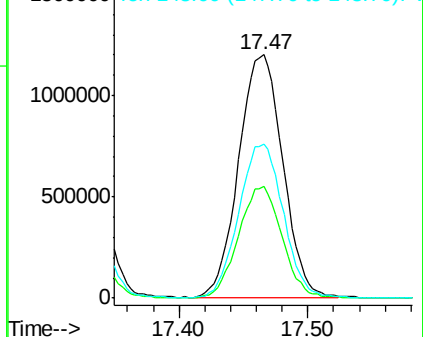
146 100

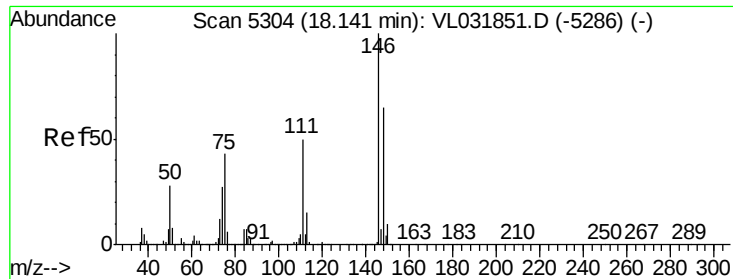
111 45.7 22.9 68.7

148 64.4 32.1 96.5



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: 11.28 ppbv

RT: 18.14 min Scan# 5305

Delta R.T. 0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

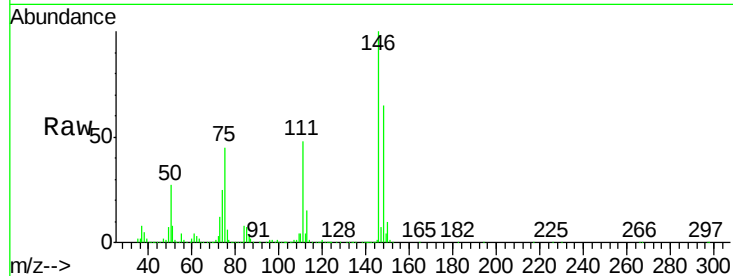
Tgt Ion:146 Resp: 2833686

Ion Ratio Lower Upper

146 100

111 48.5 24.3 72.8

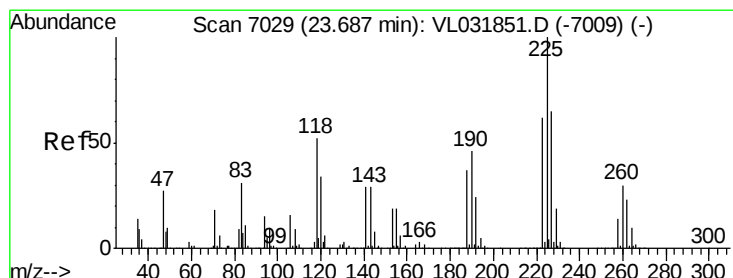
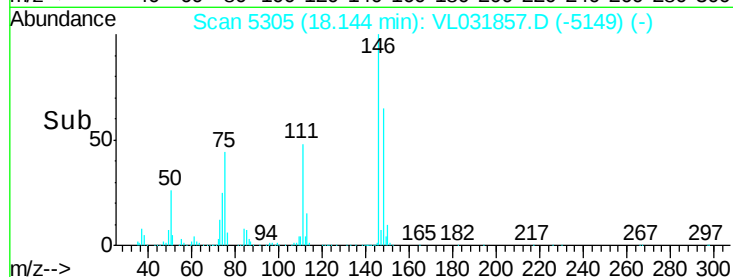
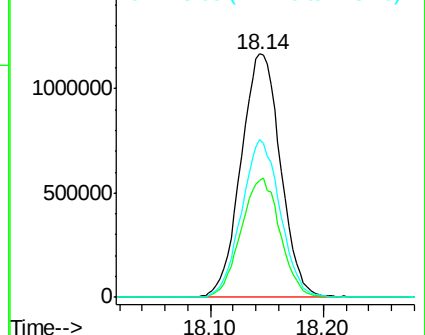
148 63.4 31.7 95.1



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: 8.25 ppbv

RT: 23.69 min Scan# 7029

Delta R.T. -0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

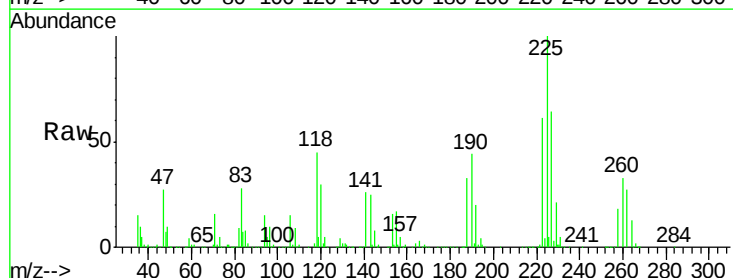
Tgt Ion:225 Resp: 858896

Ion Ratio Lower Upper

225 100

223 62.8 50.3 75.5

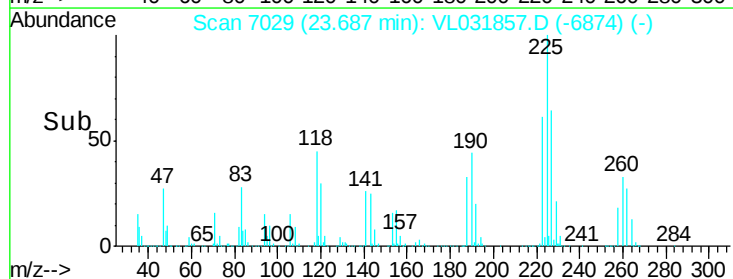
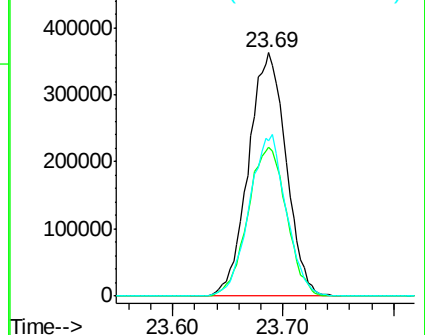
227 64.9 50.8 76.2

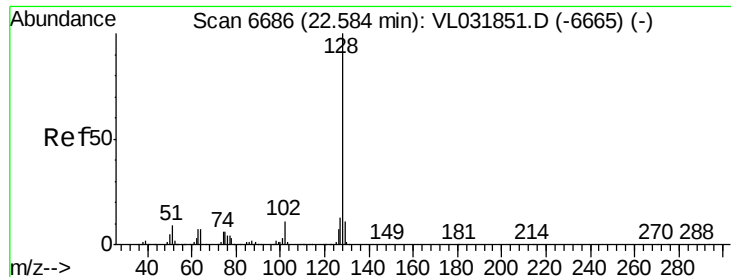


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 11.13 ppbv

RT: 22.59 min Scan# 6688

Delta R.T. 0.01 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

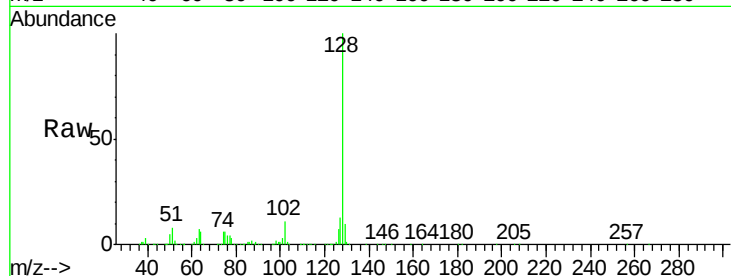
Tgt Ion:128 Resp: 2983988

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

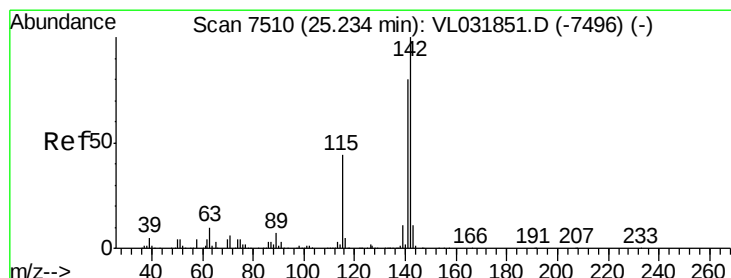
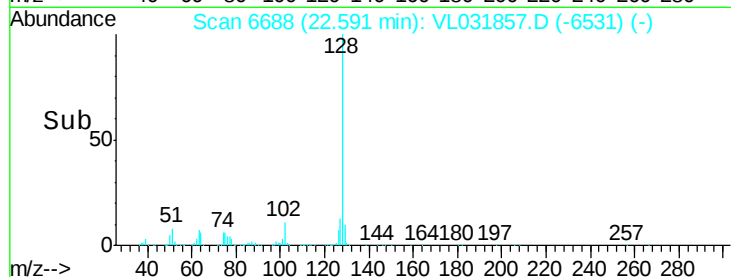
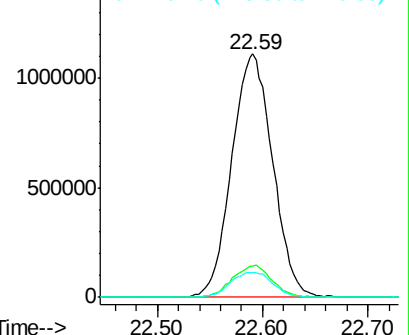
129 9.9 9.1 13.7



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 7.22 ppbv

RT: 25.23 min Scan# 7509

Delta R.T. -0.00 min

Lab File: VL031857.D

Acq: 12 Apr 2018 4:07

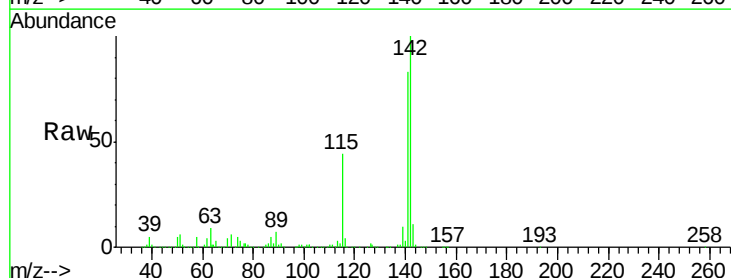
Tgt Ion:142 Resp: 479029

Ion Ratio Lower Upper

142 100

141 83.9 65.8 98.8

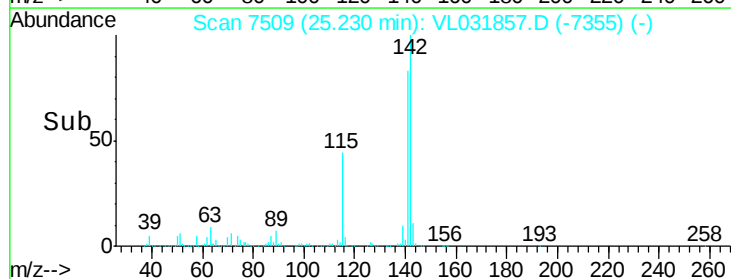
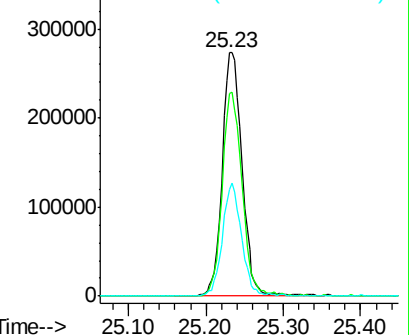
115 45.2 35.8 53.6

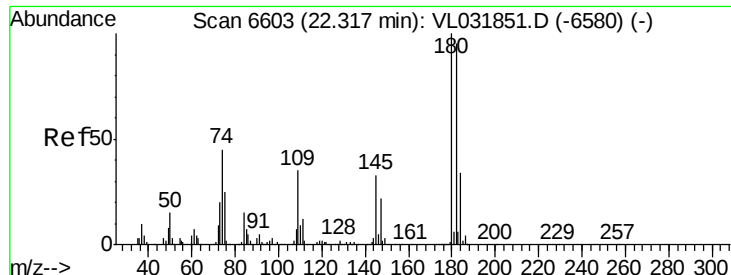


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 9.94 ppbv
 RT: 22.32 min Scan# 6603
 Delta R.T. -0.00 min
 Lab File: VL031857.D
 Acq: 12 Apr 2018 4:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:180 Resp: 1456595
 Ion Ratio Lower Upper
 180 100
 182 96.9 76.6 114.8
 184 30.5 25.0 37.4

