

Data File : VL031855.D

Acq On : 12 Apr 2018 2:50

Operator : SY/AP

Sample : VSTDIC0.1

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Quant Time: Apr 12 04:20:04 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	1311486	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2762476	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2677059	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.73	95	2204485	10.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.17	85	29962	0.12	ppbv	100
3) Chlorodifluoromethane	3.10	51	17040	0.10	ppbv	98
4) Chloromethane	3.26	50	7214	0.09	ppbv	91
5) Vinyl Chloride	3.39	62	6380	0.08	ppbv	90
6) Bromomethane	3.61	94	4020	0.07	ppbv #	81
7) Chloroethane	3.70	64	3467	0.10	ppbv	91
8) Dichlorotetrafluoroethane	3.31	85	25437	0.11	ppbv	91
9) Propene	3.12	41	3701	0.06	ppbv #	52
11) Trichlorofluoromethane	4.11	101	31530	0.13	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.67	101	20243	0.12	ppbv	99
13) Ethanol	3.78	45	1590	0.08	ppbv	87
14) Bromoethene	3.89	108	3310	0.05	ppbv #	6
15) Acetone	4.04	43	32253	0.15	ppbv #	87
16) 1,3-Butadiene	3.46	39	4970	0.06	ppbv #	25
18) 1,1-Dichloroethene	4.46	96	6771	0.09	ppbv	91
20) Methylene Chloride	4.52	84	19319	0.26	ppbv #	77
21) Allyl Chloride	4.59	41	12254	0.10	ppbv #	74
22) trans-1,2-Dichloroethene	5.08	96	9242	0.12	ppbv #	55
24) 1,1-Dichloroethane	5.22	63	9431	0.05	ppbv #	94
25) Ethyl Acetate	5.92	43	30155	0.09	ppbv #	90
26) Hexane	5.90	57	10101	0.06	ppbv #	1
27) Carbon Disulfide	4.75	76	8402	0.05	ppbv #	1
28) Methyl tert-Butyl Ether	5.26	73	7945	0.04	ppbv #	54
29) Chloroform	5.97	83	17092	0.07	ppbv	91
31) cis-1,2-Dichloroethene	5.77	61	7499	0.05	ppbv #	86
32) 1,1,1-Trichloroethane	6.75	97	12136	0.05	ppbv #	19
35) Carbon Tetrachloride	7.27	117	14906	0.07	ppbv #	84
37) 1,2-Dichloroethane	6.54	62	13822	0.08	ppbv #	90
38) Trichloroethene	8.10	130	3322	0.03	ppbv #	52
39) 1,2-Dichloropropane	7.43	63	734040	7.81	ppbv #	23
42) Bromodichloromethane	8.05	83	12586	0.06	ppbv #	88
47) 1,1,2-Trichloroethane	9.76	97	10043	0.09	ppbv #	74
48) Dibromochloromethane	10.59	129	7223	0.04	ppbv #	10
52) Tetrachloroethene	11.52	164	3493	0.03	ppbv #	59
56) 1,1,1,2-Tetrachloroethane	12.43	131	5391	0.04	ppbv #	1
57) Chlorobenzene	12.45	112	12932	0.05	ppbv #	76
59) m/p-Xylene	13.31	91	10782	0.03	ppbv #	100
62) Isopropylbenzene	14.97	105	21883	0.05	ppbv #	76
63) 1,1,2,2-Tetrachloroethane	13.99	83	12867	0.06	ppbv #	16
67) sec-Butylbenzene	17.61	105	18323	0.03	ppbv #	60
70) n-Butylbenzene	18.86	91	20872	0.05	ppbv #	94

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL041218\
Quantitation Report (Not Reviewed)

Data File : VL031855.D
Acq On : 12 Apr 2018 2:50
Operator : SY/AP
Sample : VSTDIC0.1
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Quant Time: Apr 12 04:20:04 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)
71) 2-Chlorotoluene	15.77	91	12063	0.04	ppbv #	50
75) 1,3-Dichlorobenzene	17.31	146	10590	0.05	ppbv #	23
76) 1,4-Dichlorobenzene	17.46	146	7088	0.03	ppbv #	1
80) Naphthalene,2-methyl-	25.24	142	1694	0.03	ppbv #	31

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

Data File : VL031855.D

Acq On : 12 Apr 2018 2:50

Operator : SY/AP

Sample : VSTDIC0.1

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

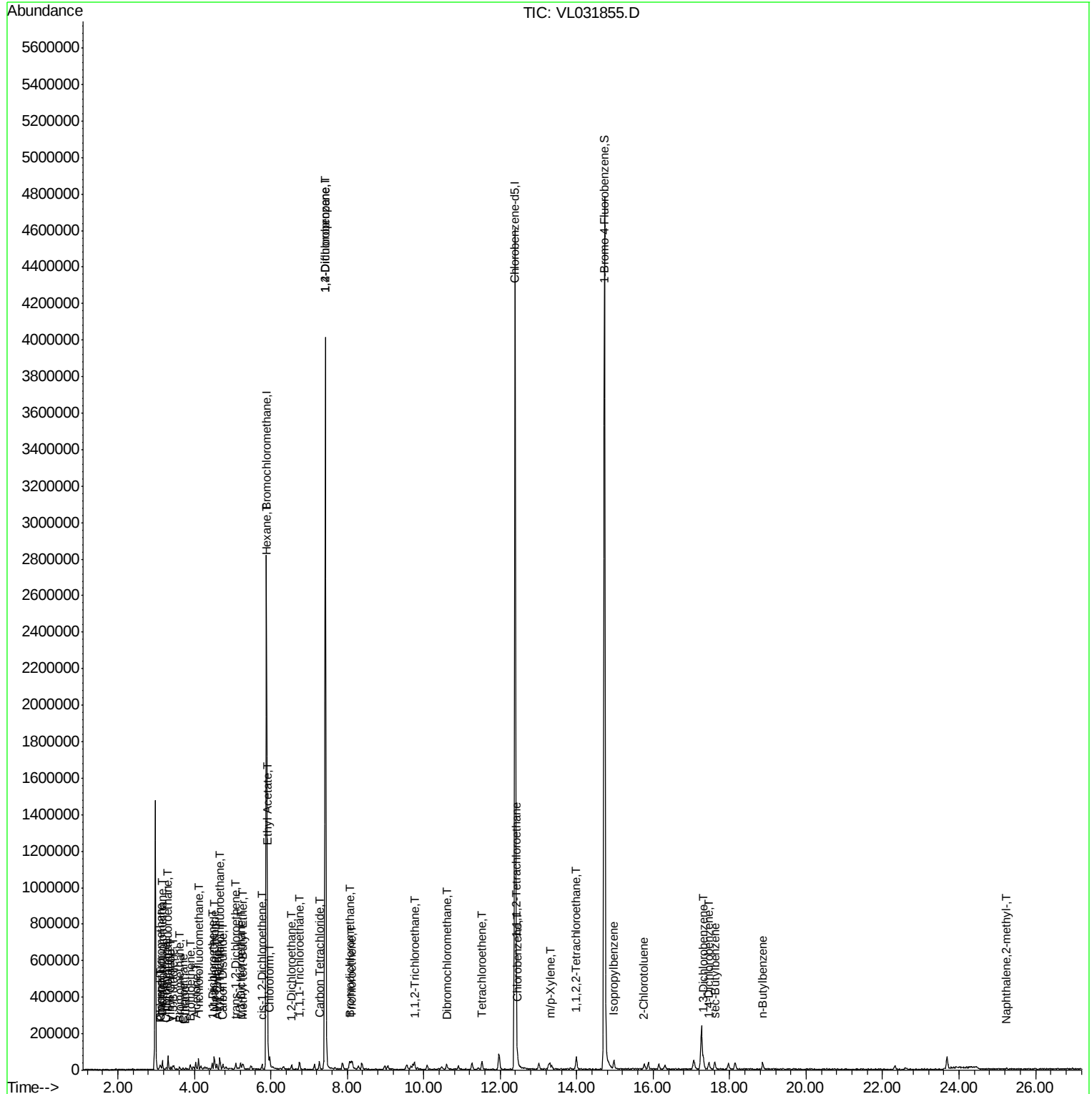
Quant Time: Apr 12 04:20:04 2018

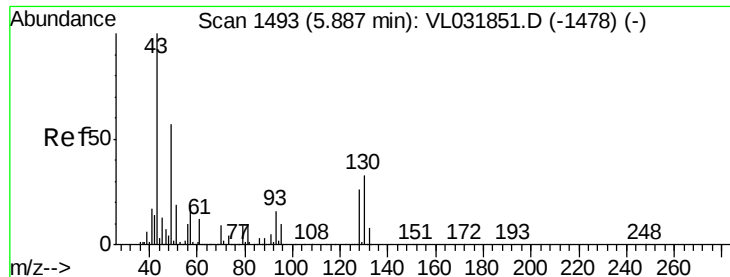
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL041218AIR.M

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





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.89 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

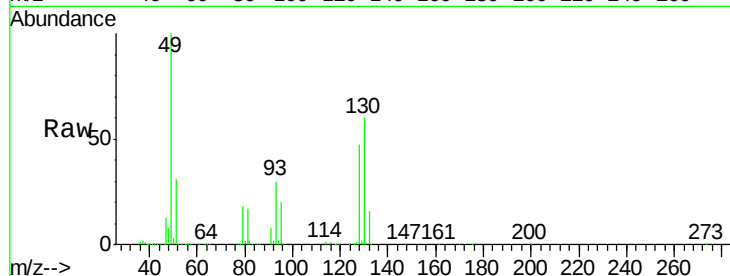
Tgt Ion: 49 Resp: 1311486

Ion Ratio Lower Upper

49 100

128 48.6 23.9 71.8

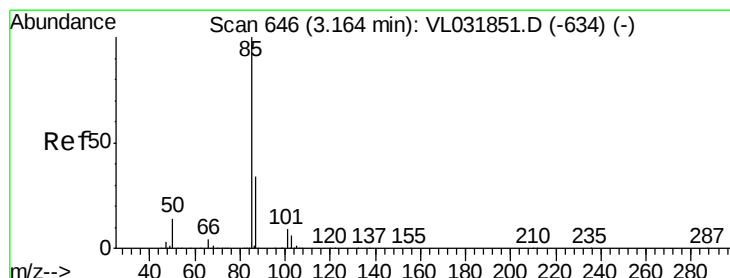
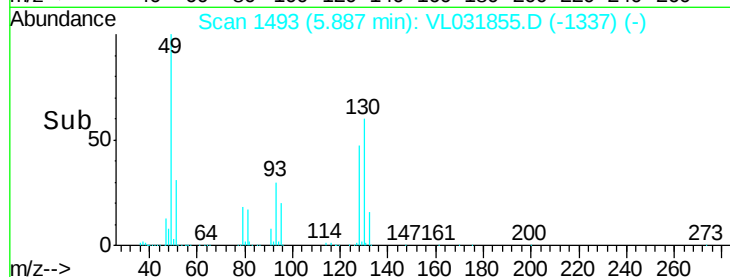
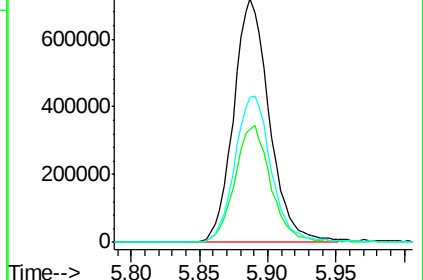
130 61.6 31.1 93.2



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: 0.12 ppbv

RT: 3.17 min Scan# 647

Delta R.T. 0.00 min

Lab File: VL031855.D

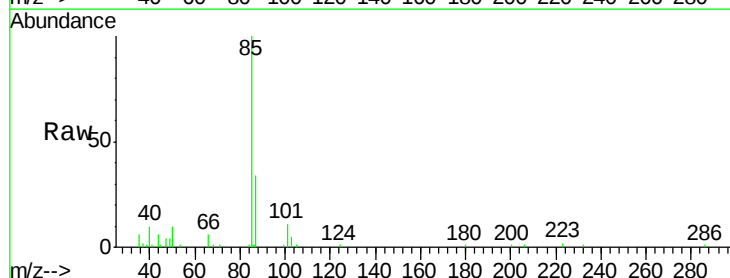
Acq: 12 Apr 2018 2:50

Tgt Ion: 85 Resp: 29962

Ion Ratio Lower Upper

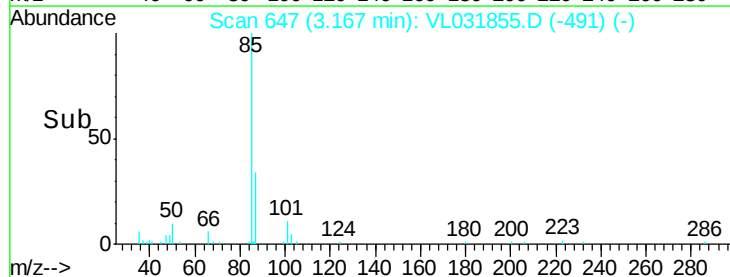
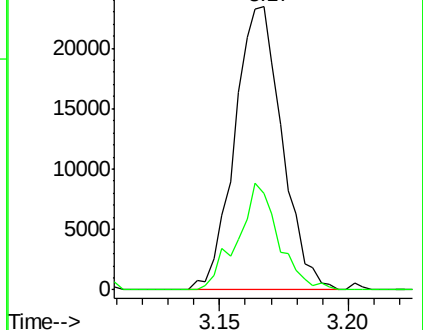
85 100

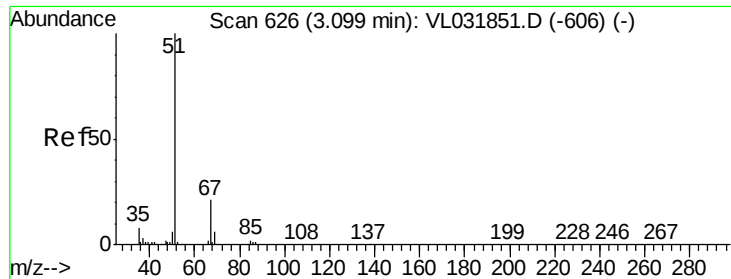
87 34.1 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.10 ppbv

RT: 3.10 min Scan# 627

Delta R.T. 0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Instrument :

MSVOA_L

ClientSampleId :

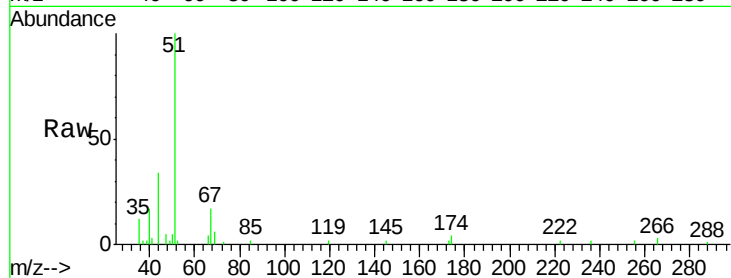
VSTDIC0.1

Tgt Ion: 51 Resp: 17040

Ion Ratio Lower Upper

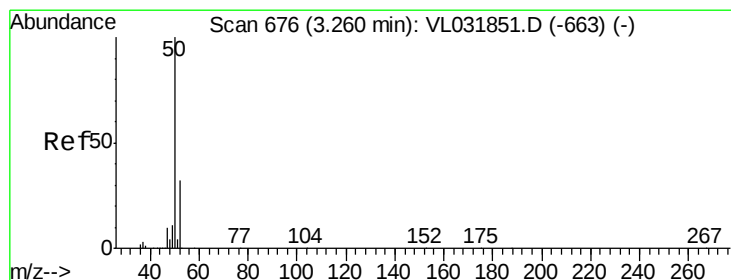
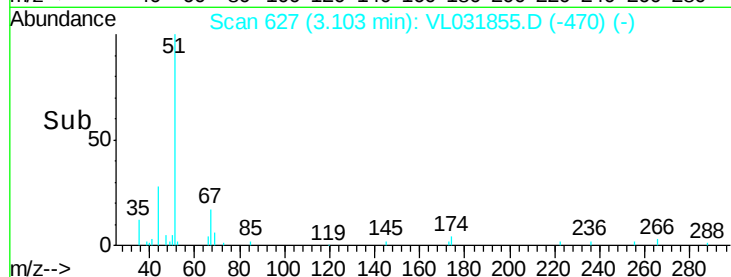
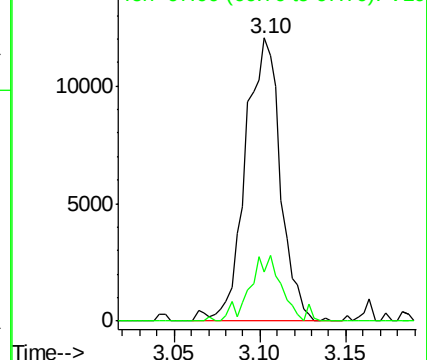
51 100

67 21.7 16.7 25.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.09 ppbv

RT: 3.26 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL031855.D

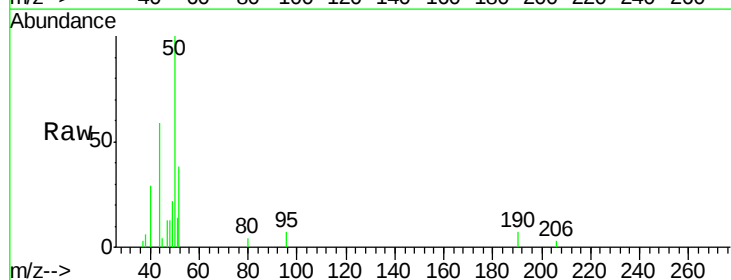
Acq: 12 Apr 2018 2:50

Tgt Ion: 50 Resp: 7214

Ion Ratio Lower Upper

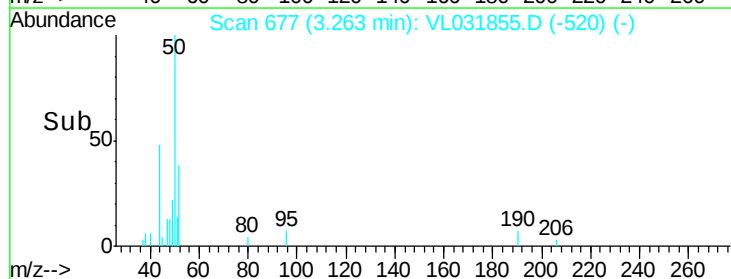
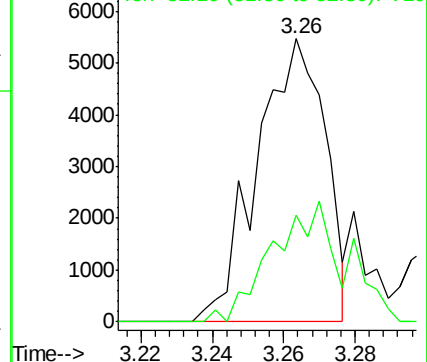
50 100

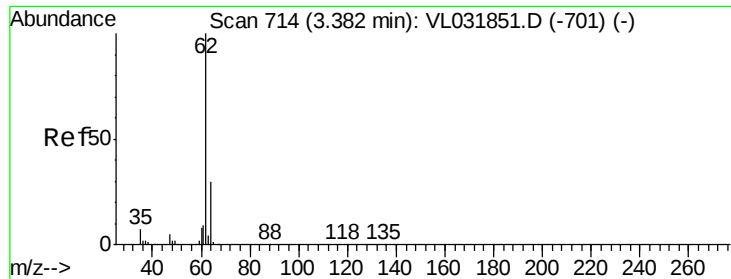
52 37.6 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.08 ppbv

RT: 3.39 min Scan# 715

Delta R.T. 0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Instrument :

MSVOA_L

ClientSampleId :

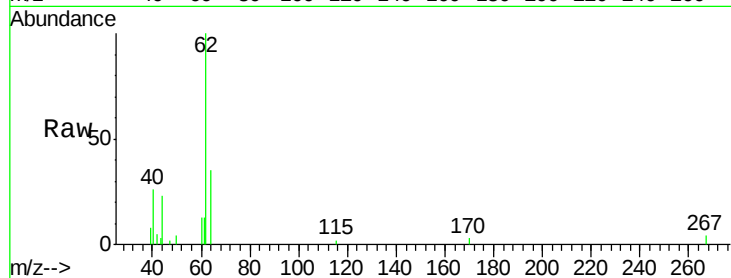
VSTDIC0.1

Tgt Ion: 62 Resp: 6380

Ion Ratio Lower Upper

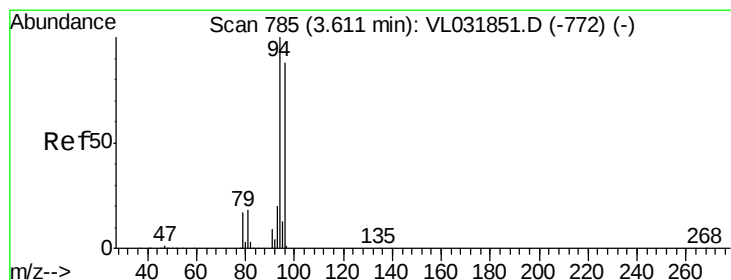
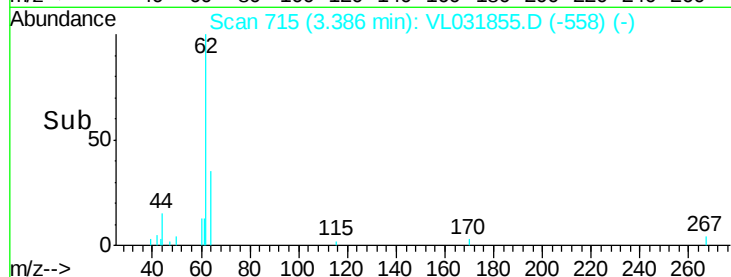
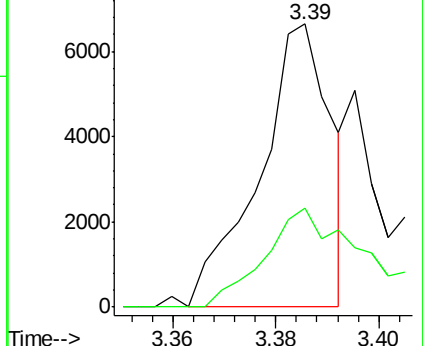
62 100

64 35.0 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: 0.07 ppbv

RT: 3.61 min Scan# 786

Delta R.T. 0.00 min

Lab File: VL031855.D

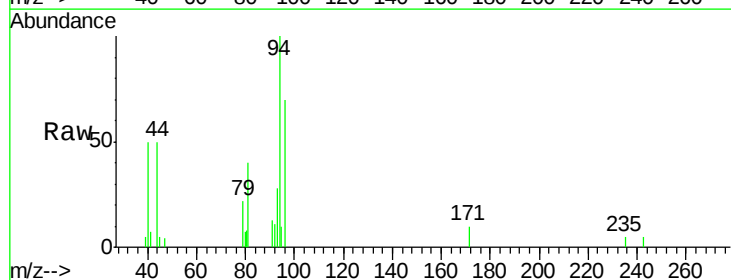
Acq: 12 Apr 2018 2:50

Tgt Ion: 94 Resp: 4020

Ion Ratio Lower Upper

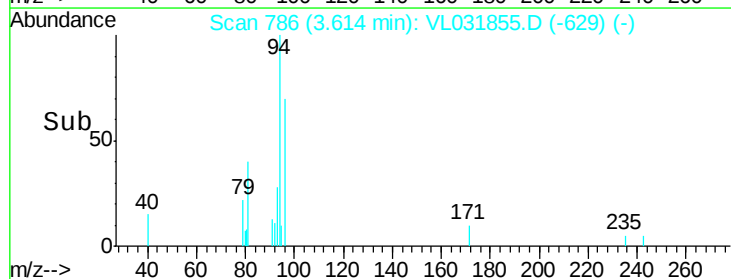
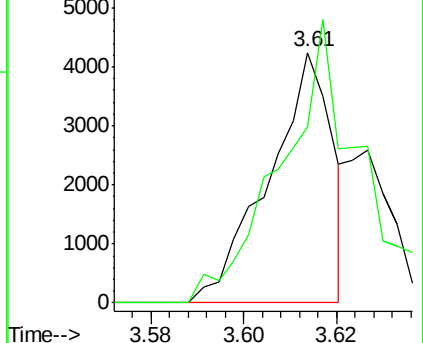
94 100

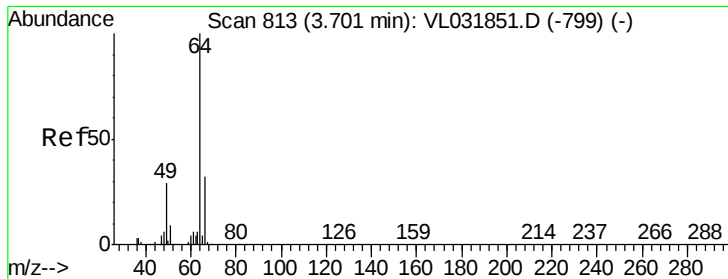
96 70.4 70.6 105.8#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.10 ppbv

RT: 3.70 min Scan# 814

Delta R.T. 0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Instrument :

MSVOA_L

ClientSampleId :

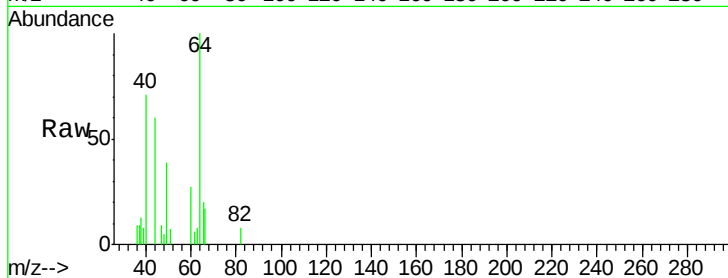
VSTDIC0.1

Tgt Ion: 64 Resp: 3467

Ion Ratio Lower Upper

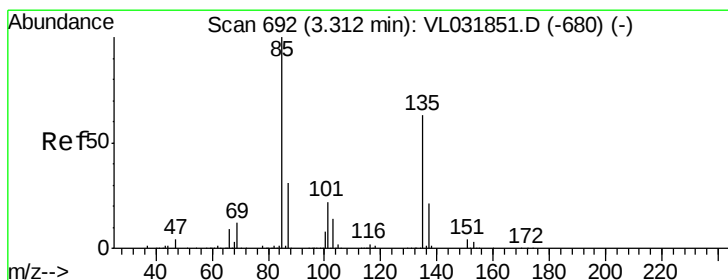
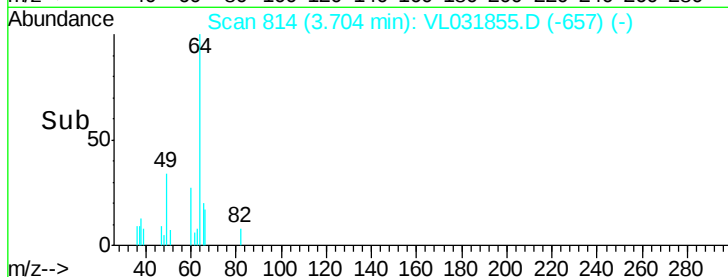
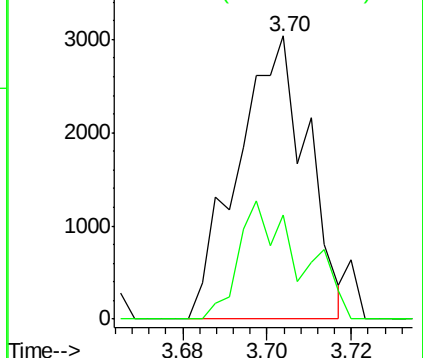
64 100

66 36.7 25.5 38.3



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.11 ppbv

RT: 3.31 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL031855.D

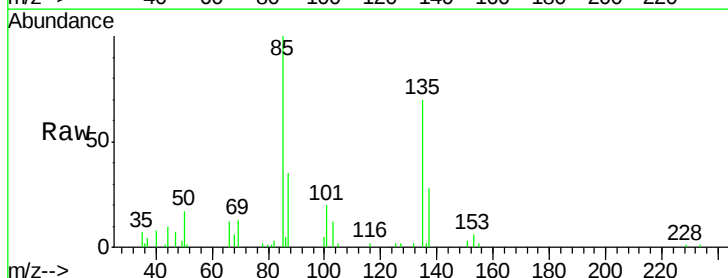
Acq: 12 Apr 2018 2:50

Tgt Ion: 85 Resp: 25437

Ion Ratio Lower Upper

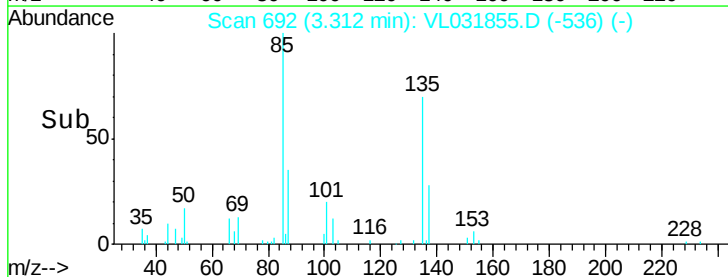
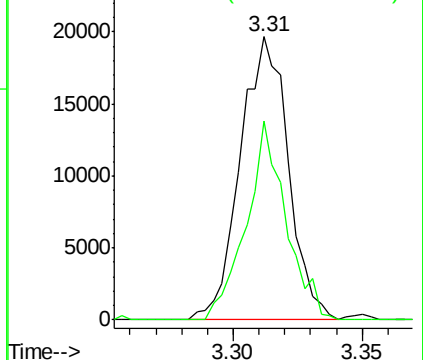
85 100

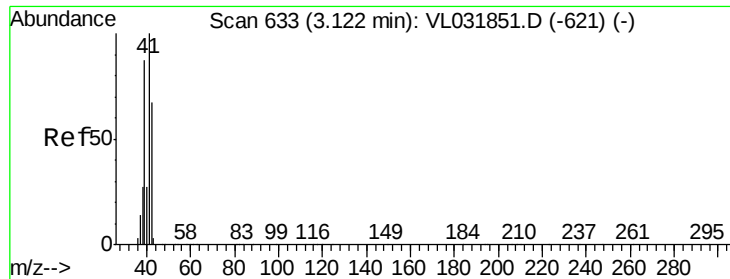
135 58.4 52.6 79.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.06 ppbv

RT: 3.12 min Scan# 633

Delta R.T. -0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Instrument :

MSVOA_L

ClientSampleId :

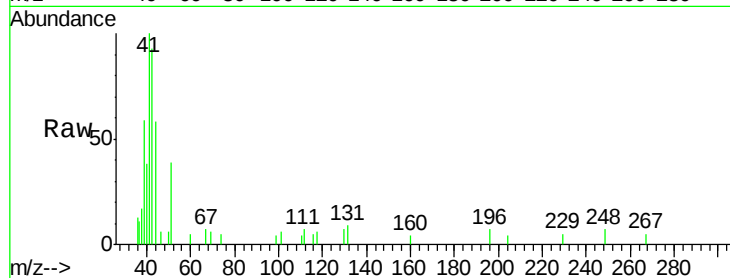
VSTDIC0.1

Tgt Ion: 41 Resp: 3701

Ion Ratio Lower Upper

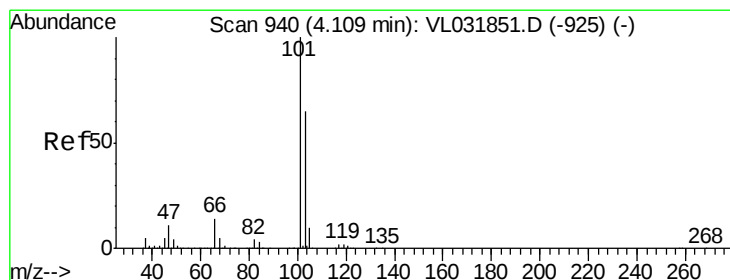
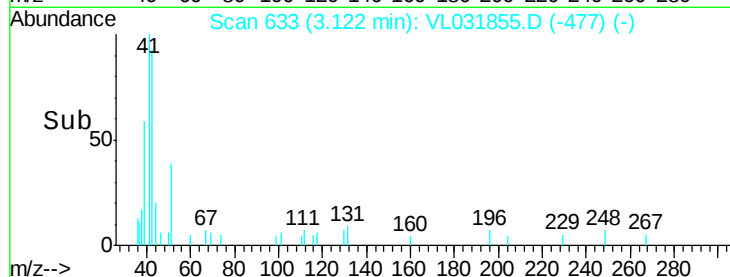
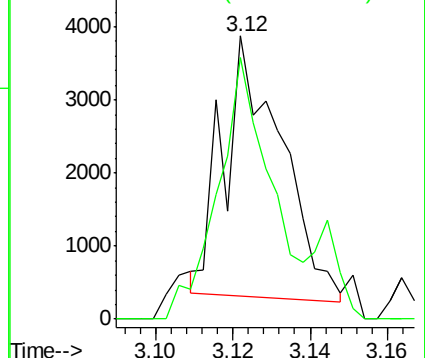
41 100

42 107.0 54.3 81.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.13 ppbv

RT: 4.11 min Scan# 941

Delta R.T. 0.00 min

Lab File: VL031855.D

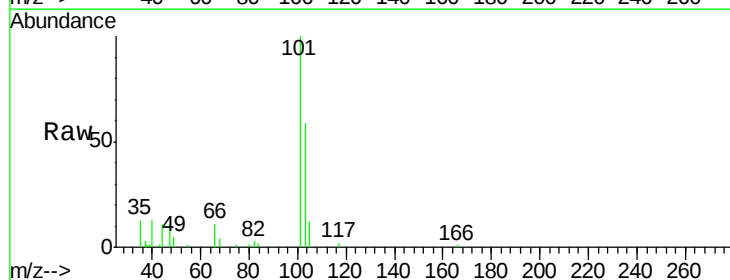
Acq: 12 Apr 2018 2:50

Tgt Ion: 101 Resp: 31530

Ion Ratio Lower Upper

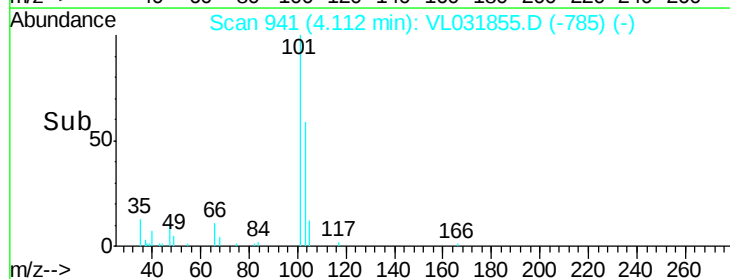
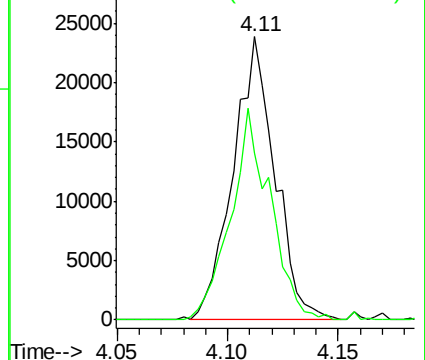
101 100

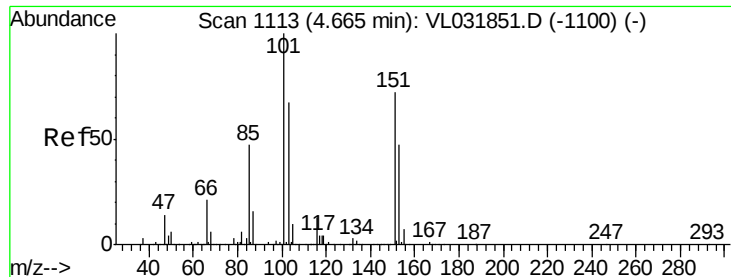
103 59.2 51.8 77.6



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: 0.12 ppbv

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Instrument :

MSVOA_L

ClientSampleId :

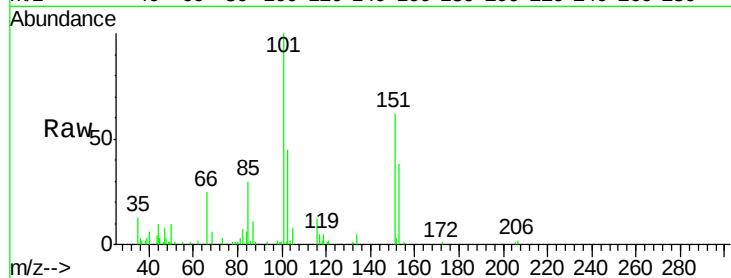
VSTDIC0.1

Tgt Ion:101 Resp: 20243

Ion Ratio Lower Upper

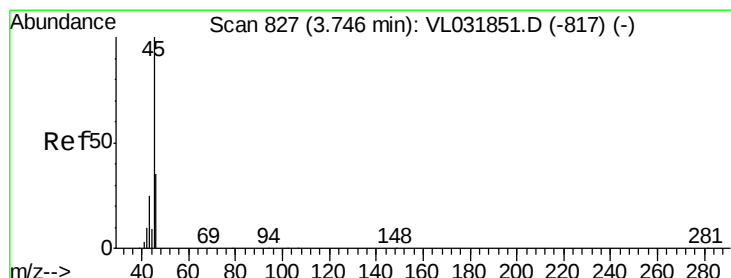
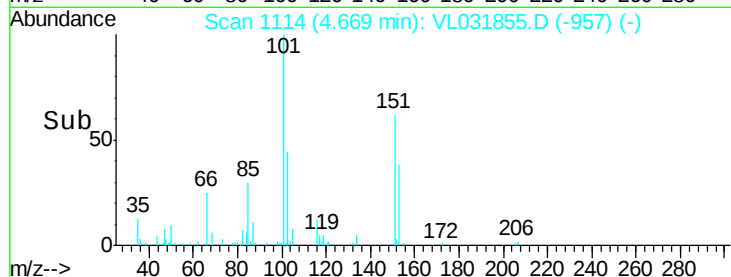
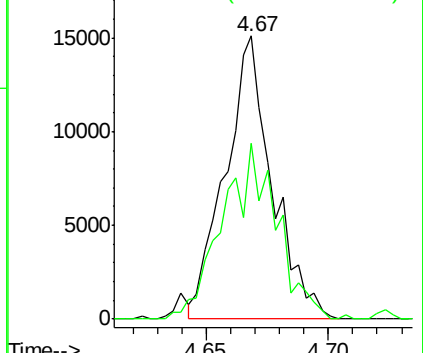
101 100

151 71.3 57.7 86.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 0.08 ppbv

RT: 3.78 min Scan# 837

Delta R.T. 0.03 min

Lab File: VL031855.D

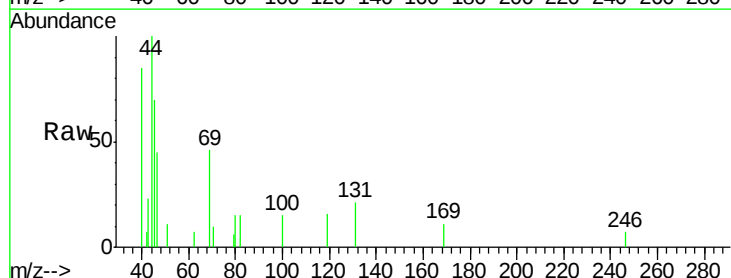
Acq: 12 Apr 2018 2:50

Tgt Ion: 45 Resp: 1590

Ion Ratio Lower Upper

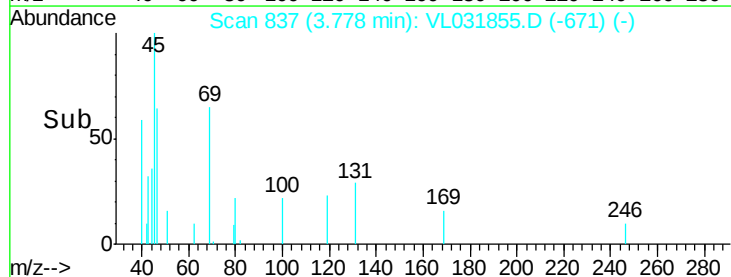
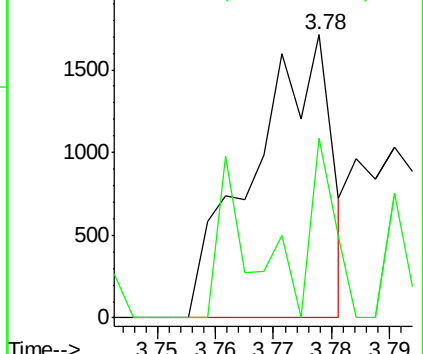
45 100

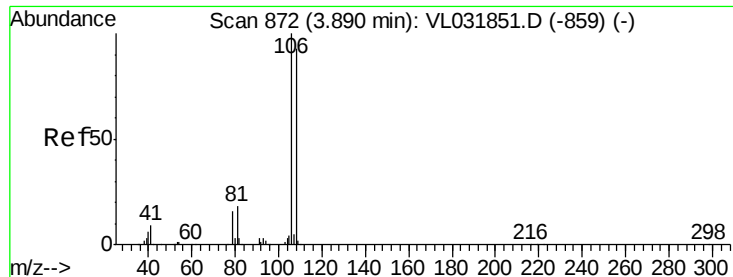
46 43.9 14.6 58.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#14

Bromoethene

Concen: 0.05 ppbv

RT: 3.89 min Scan# 871

Delta R.T. -0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

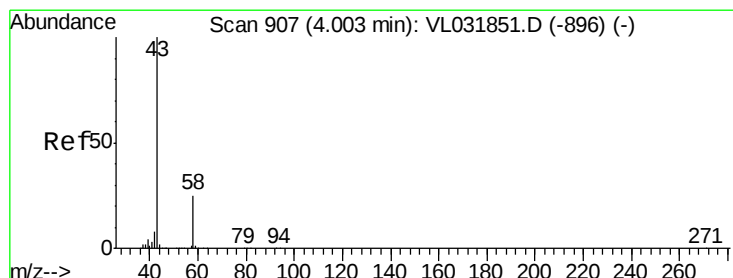
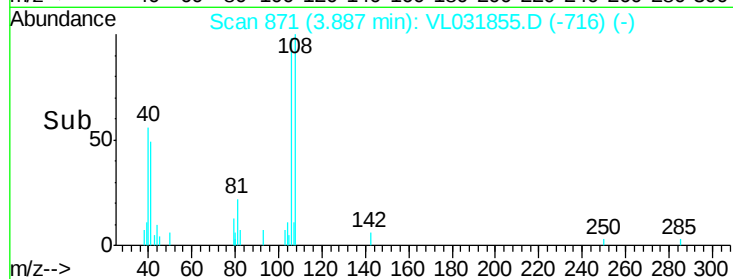
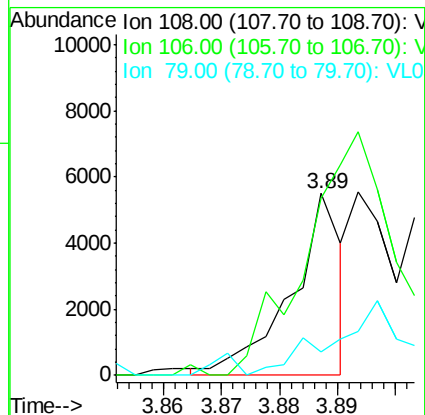
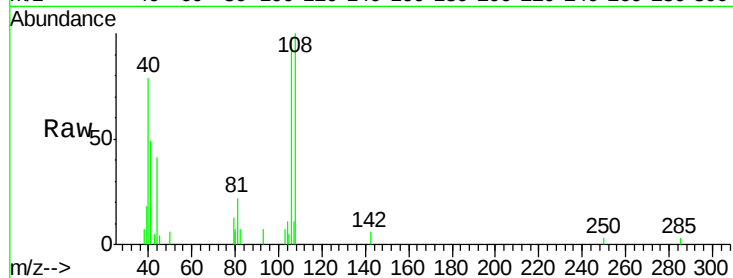
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:	108	Resp:	3310
Ion	Ratio	Lower	Upper
108	100		
106	0.0	86.9	130.3#
79	0.0	15.5	23.3#



#15

Acetone

Concen: 0.15 ppbv

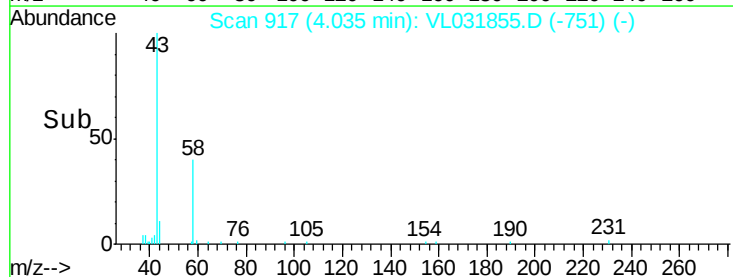
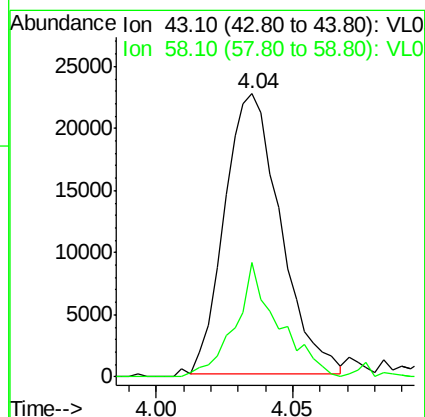
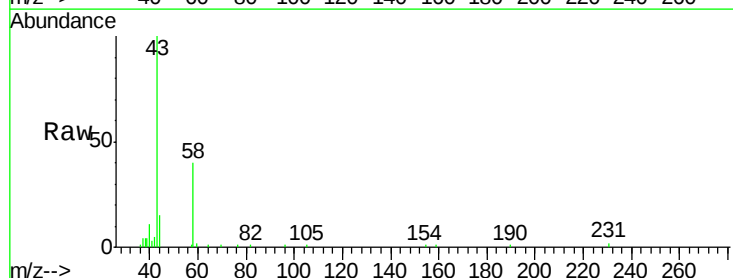
RT: 4.04 min Scan# 917

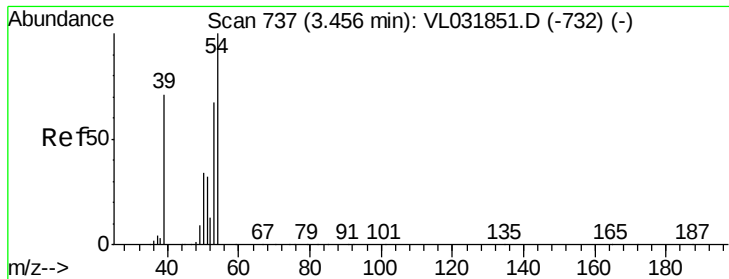
Delta R.T. 0.03 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Tgt Ion:	43	Resp:	32253
Ion	Ratio	Lower	Upper
43	100		
58	32.8	20.7	31.1#





#16

1,3-Butadiene

Concen: 0.06 ppbv

RT: 3.46 min Scan# 738

Delta R.T. 0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Instrument :

MSVOA_L

ClientSampleId :

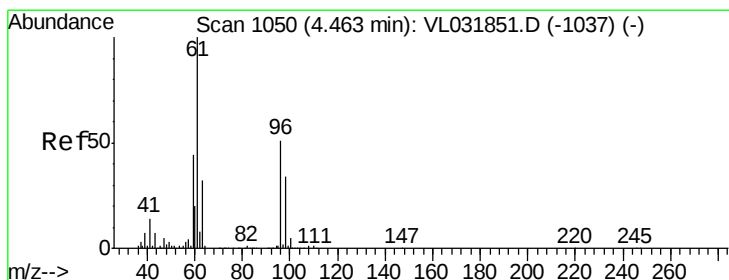
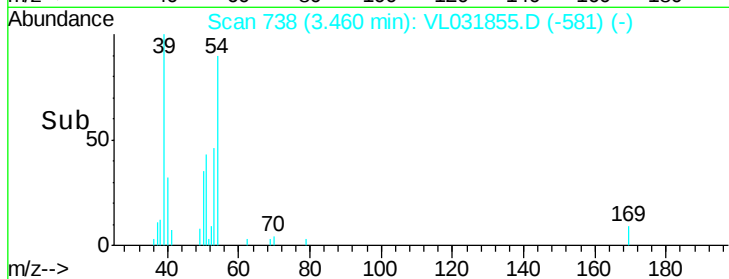
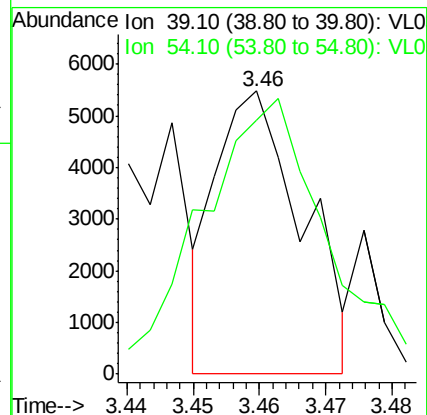
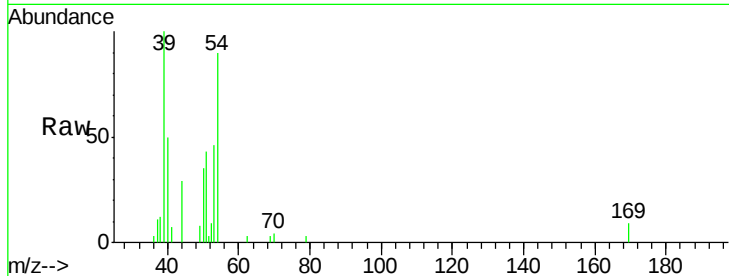
VSTDIC0.1

Tgt Ion: 39 Resp: 4970

Ion Ratio Lower Upper

39 100

54 152.2 67.5 101.3#



#18

1,1-Dichloroethene

Concen: 0.09 ppbv

RT: 4.46 min Scan# 1049

Delta R.T. -0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

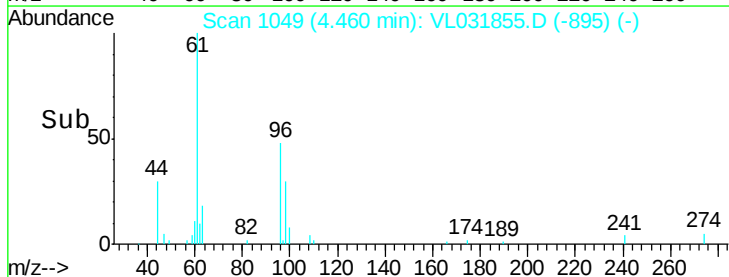
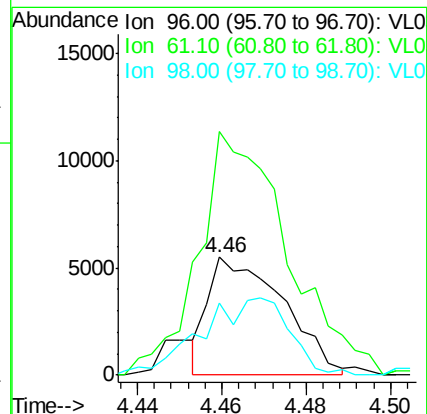
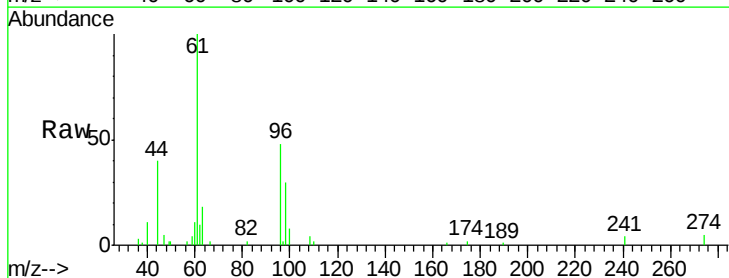
Tgt Ion: 96 Resp: 6771

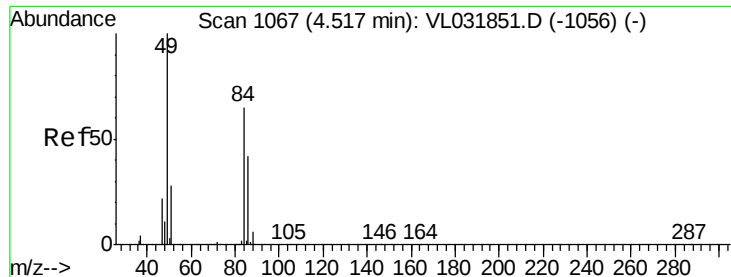
Ion Ratio Lower Upper

96 100

61 183.0 157.2 235.8

98 60.5 53.0 79.4

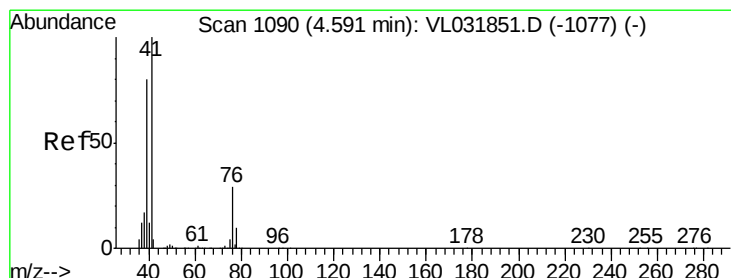
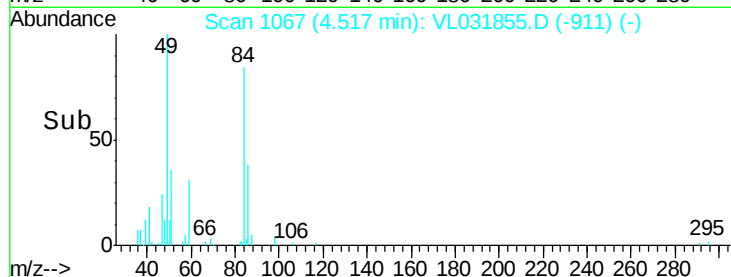
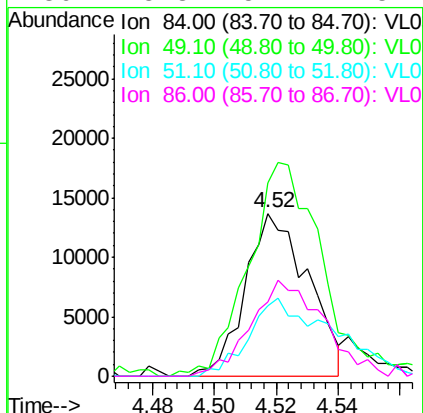
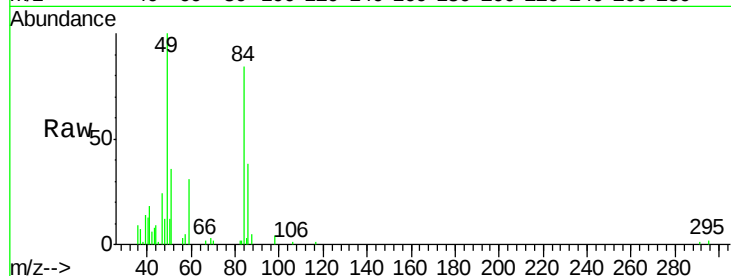




#20
Methylene Chloride
Concen: 0.26 ppbv
RT: 4.52 min Scan# 1067
Delta R.T. -0.00 min
Lab File: VL031855.D
Acq: 12 Apr 2018 2:50

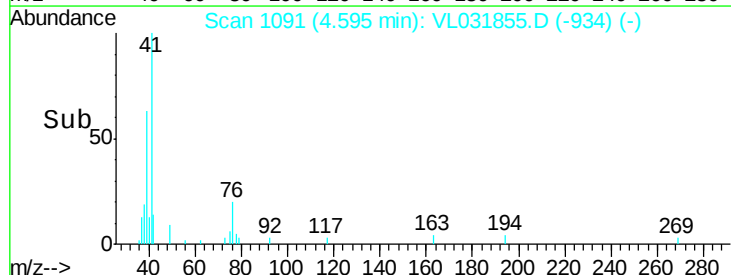
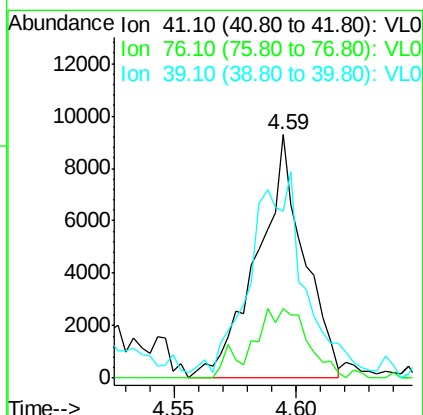
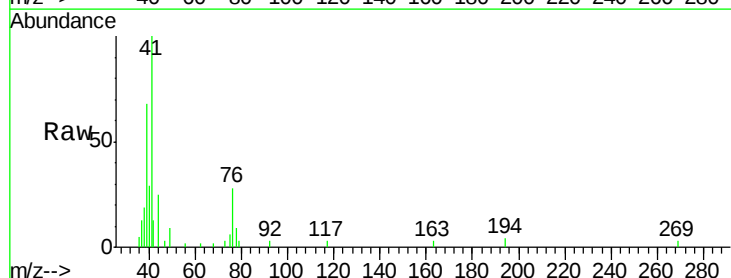
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

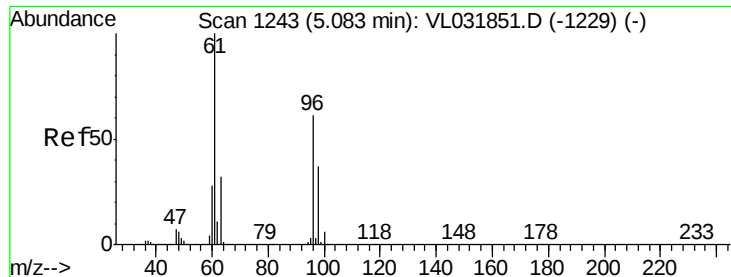
Tgt Ion: 84 Resp: 19319
Ion Ratio Lower Upper
84 100
49 116.5 123.3 184.9#
51 43.2 35.0 52.6
86 45.3 52.2 78.2#



#21
Allyl Chloride
Concen: 0.10 ppbv
RT: 4.59 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VL031855.D
Acq: 12 Apr 2018 2:50

Tgt Ion: 41 Resp: 12254
Ion Ratio Lower Upper
41 100
76 35.3 23.4 35.0#
39 109.2 65.4 98.2#





#22

trans-1,2-Dichloroethene

Concen: 0.12 ppbv

RT: 5.08 min Scan# 1243

Delta R.T. -0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

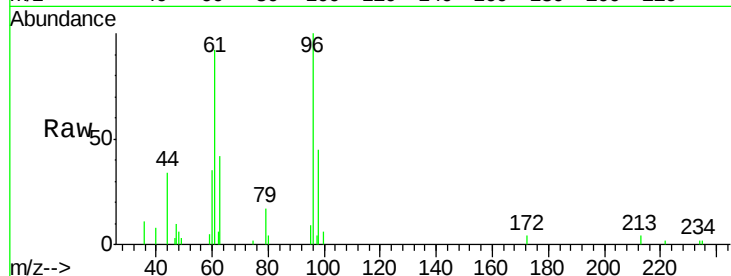
Tgt Ion: 96 Resp: 9242

Ion Ratio Lower Upper

96 100

61 91.8 130.2 195.2#

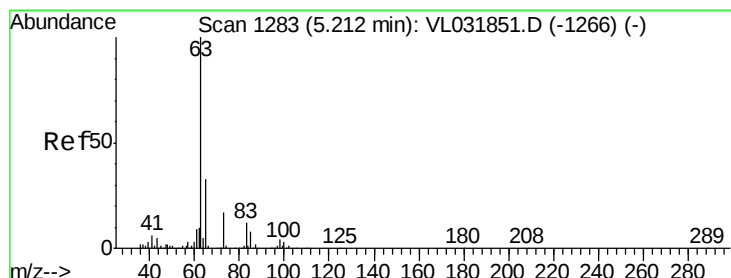
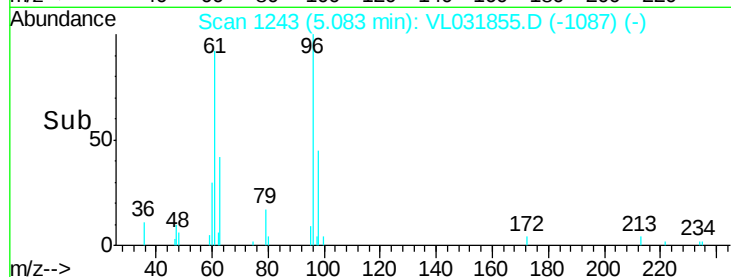
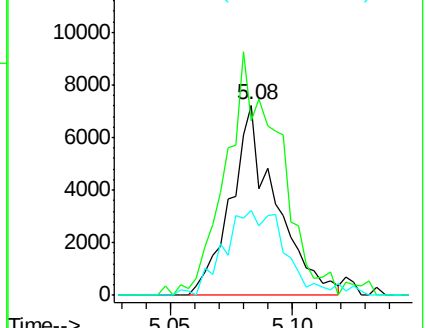
98 42.2 48.2 72.2#



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



#24

1,1-Dichloroethane

Concen: 0.05 ppbv

RT: 5.22 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

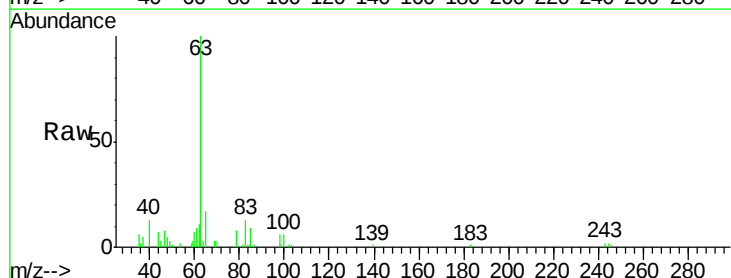
Tgt Ion: 63 Resp: 9431

Ion Ratio Lower Upper

63 100

98 5.8 2.2 6.6

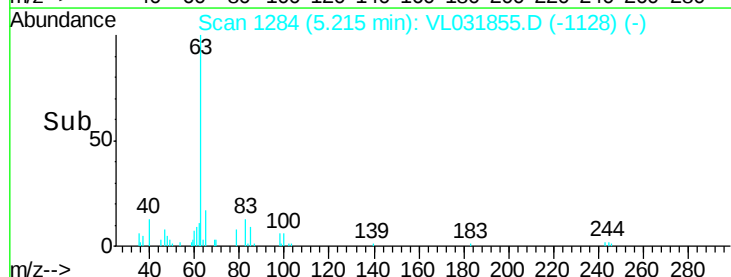
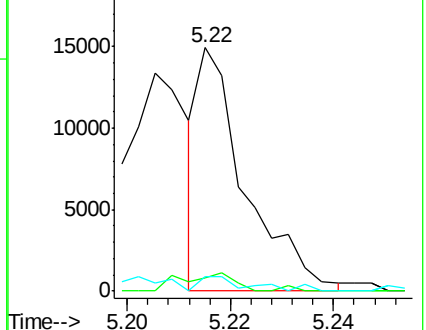
100 6.2 1.7 5.0#

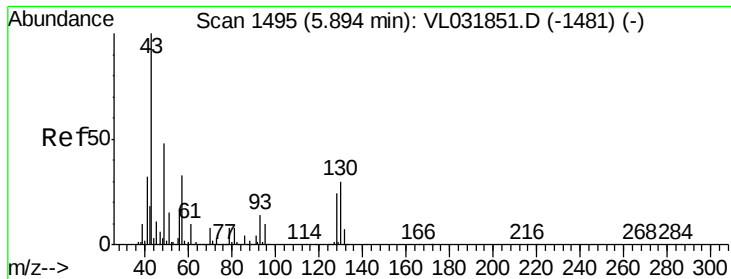


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

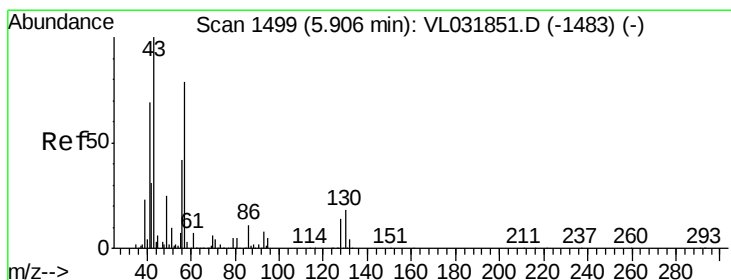
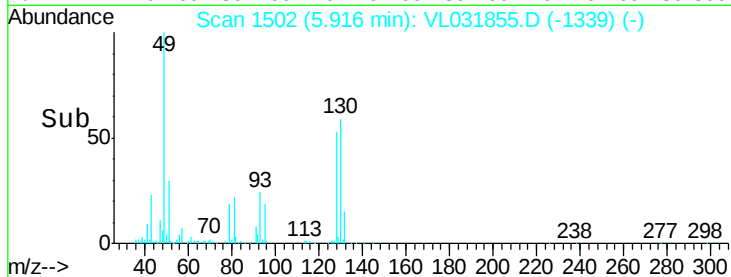
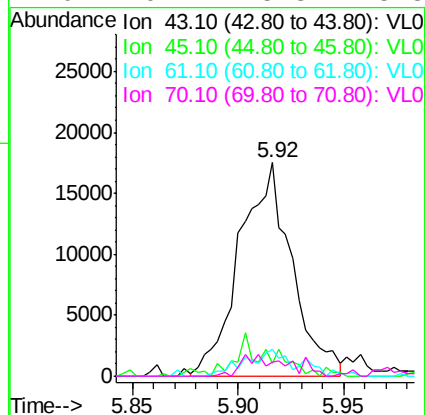
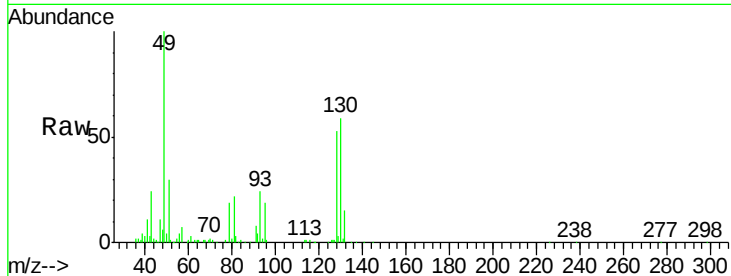




#25
Ethyl Acetate
Concen: 0.09 ppbv
RT: 5.92 min Scan# 1502
Delta R.T. 0.02 min
Lab File: VL031855.D
Acq: 12 Apr 2018 2:50

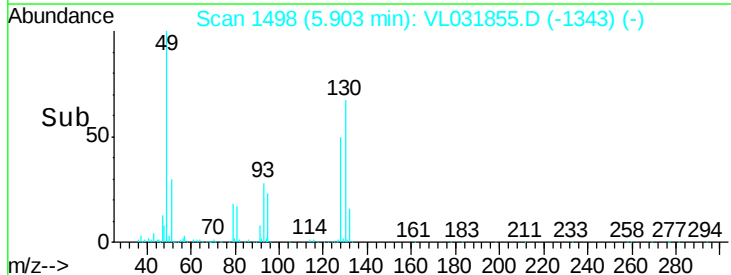
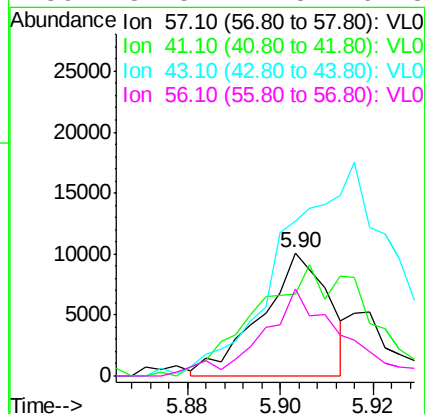
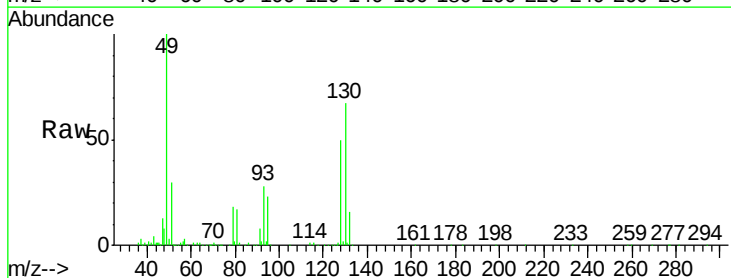
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

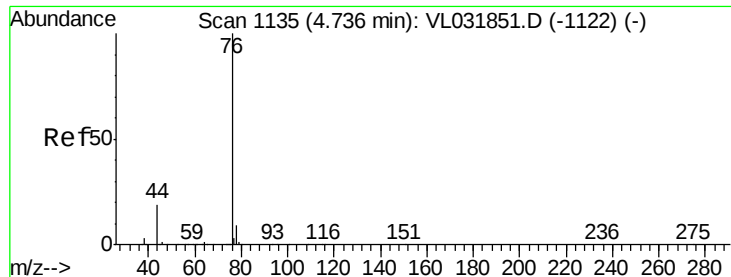
Tgt Ion:	43	Resp:	30155
Ion	Ratio	Lower	Upper
43	100		
45	14.9	7.8	11.8#
61	12.6	7.5	11.3#
70	9.4	5.8	8.8#



#26
Hexane
Concen: 0.06 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. -0.00 min
Lab File: VL031855.D
Acq: 12 Apr 2018 2:50

Tgt Ion:	57	Resp:	10101
Ion	Ratio	Lower	Upper
57	100		
41	152.8	71.7	107.5#
43	0.0	172.0	258.0#
56	84.5	41.5	62.3#





#27

Carbon Disulfide

Concen: 0.05 ppbv

RT: 4.75 min Scan# 1138

Delta R.T. 0.01 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

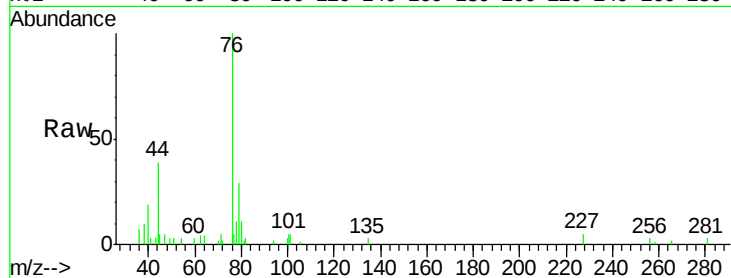
Tgt Ion: 76 Resp: 8402

Ion Ratio Lower Upper

76 100

44 114.8 14.8 22.2#

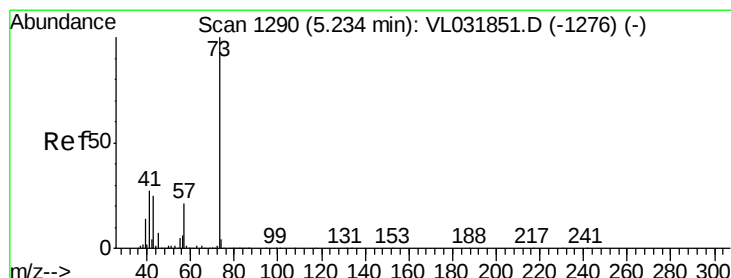
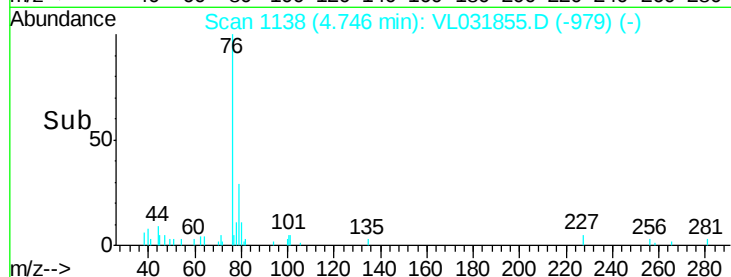
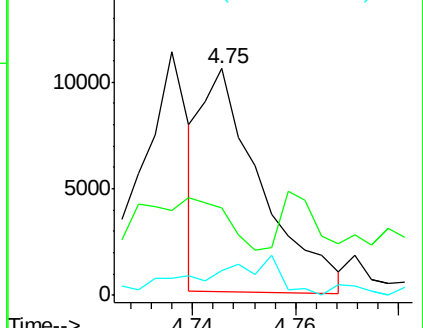
78 29.8 7.4 11.2#



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: 0.04 ppbv

RT: 5.26 min Scan# 1297

Delta R.T. 0.02 min

Lab File: VL031855.D

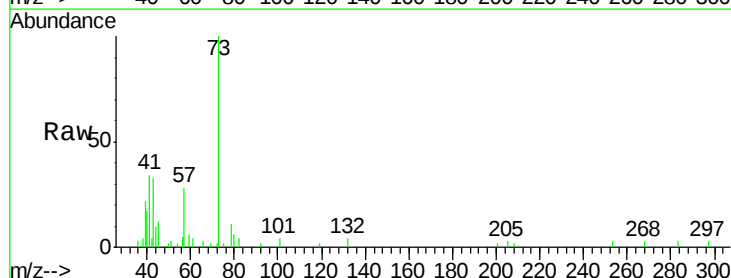
Acq: 12 Apr 2018 2:50

Tgt Ion: 73 Resp: 7945

Ion Ratio Lower Upper

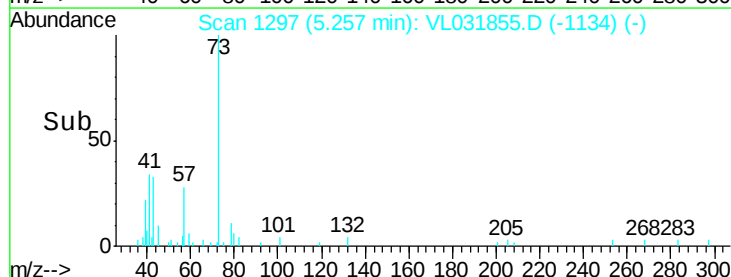
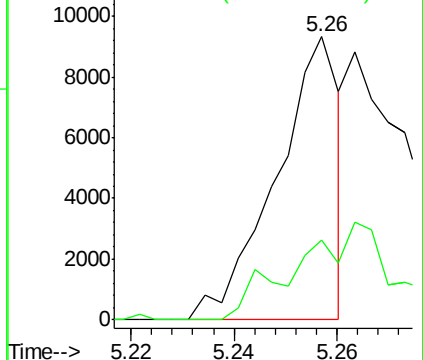
73 100

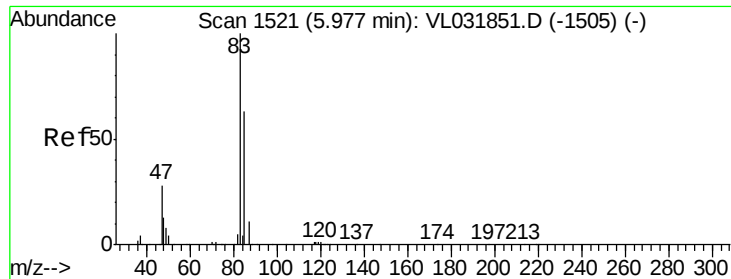
57 0.0 17.3 25.9#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

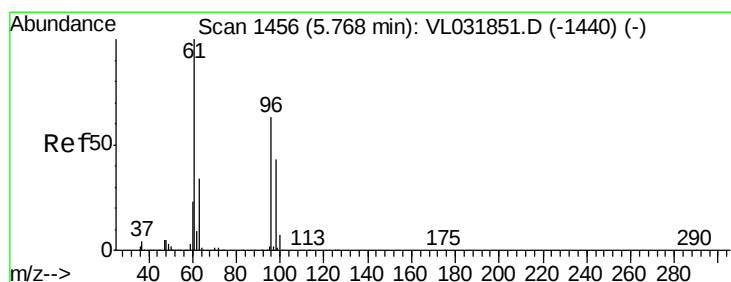
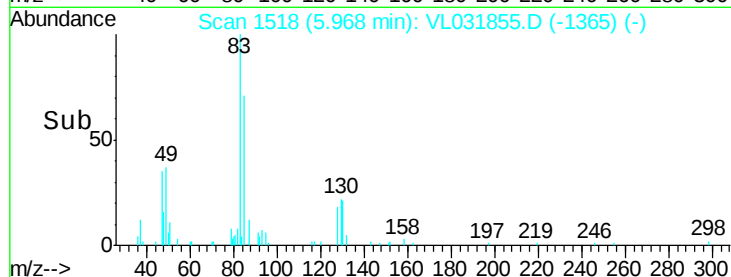
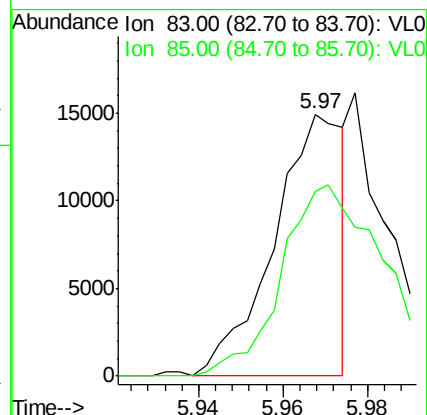
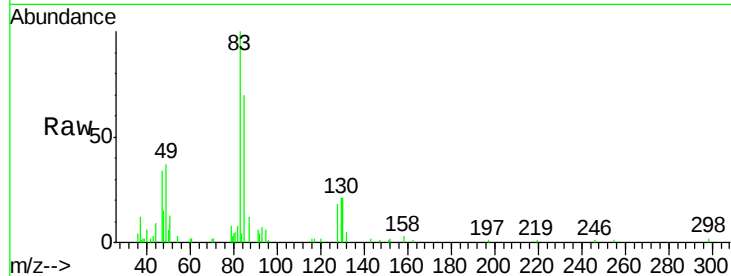




#29
Chloroform
Concen: 0.07 ppbv
RT: 5.97 min Scan# 1518
Delta R.T. -0.01 min
Lab File: VL031855.D
Acq: 12 Apr 2018 2:50

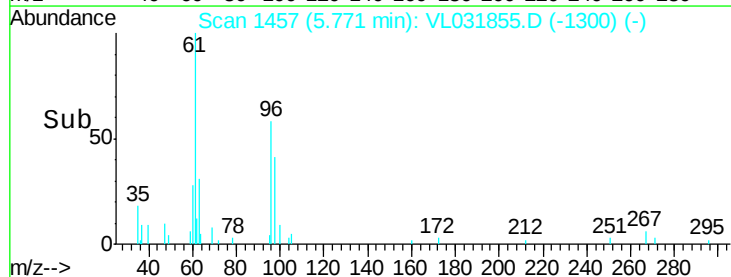
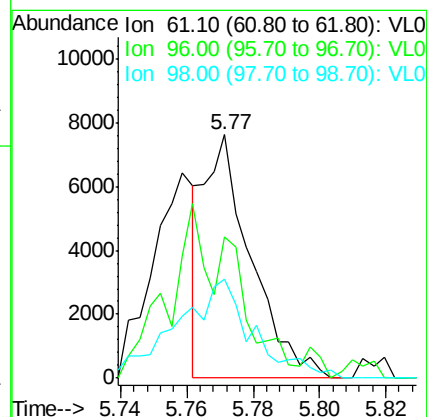
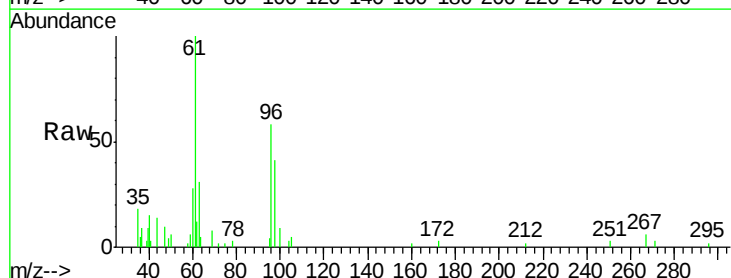
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

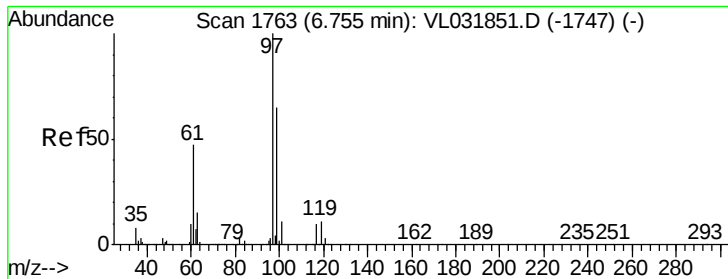
Tgt Ion: 83 Resp: 17092
Ion Ratio Lower Upper
83 100
85 70.3 50.4 75.6



#31
cis-1,2-Dichloroethene
Concen: 0.05 ppbv
RT: 5.77 min Scan# 1457
Delta R.T. 0.00 min
Lab File: VL031855.D
Acq: 12 Apr 2018 2:50

Tgt Ion: 61 Resp: 7499
Ion Ratio Lower Upper
61 100
96 49.4 50.4 75.6#
98 36.6 34.1 51.1





#32

1,1,1-Trichloroethane

Concen: 0.05 ppbv

RT: 6.75 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

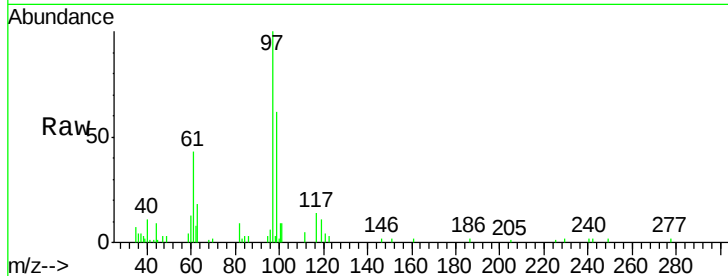
Tgt Ion: 97 Resp: 12136

Ion Ratio Lower Upper

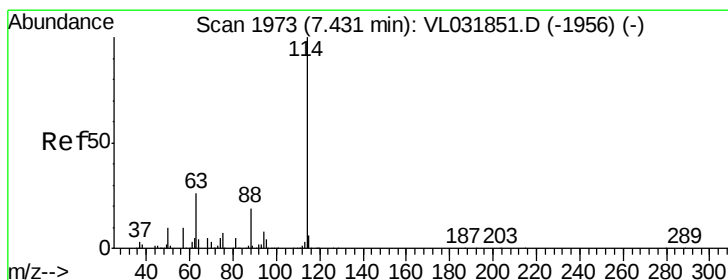
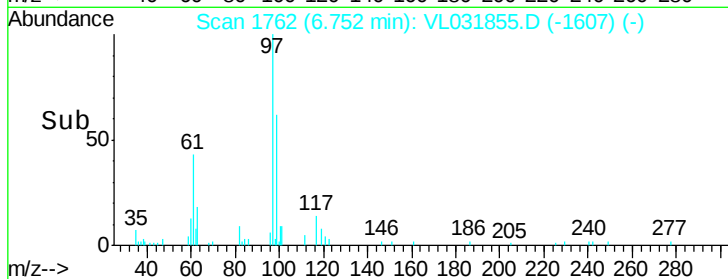
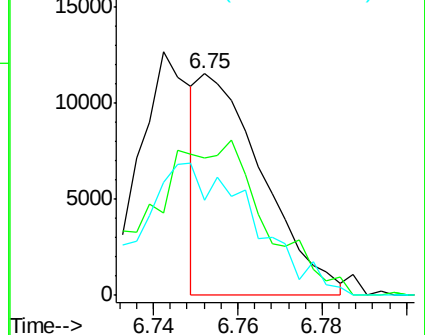
97 100

99 124.9 51.5 77.3#

61 106.9 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# 1972

Delta R.T. -0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

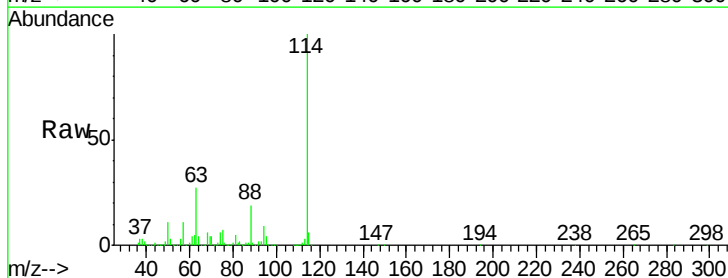
Tgt Ion: 114 Resp: 2762476

Ion Ratio Lower Upper

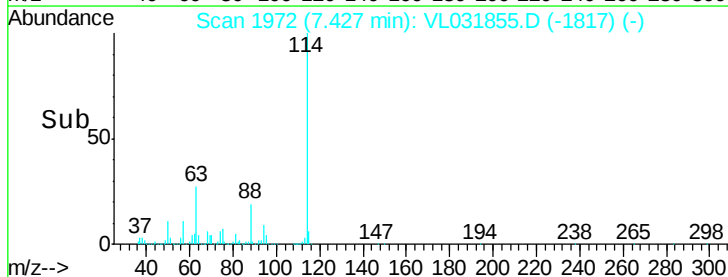
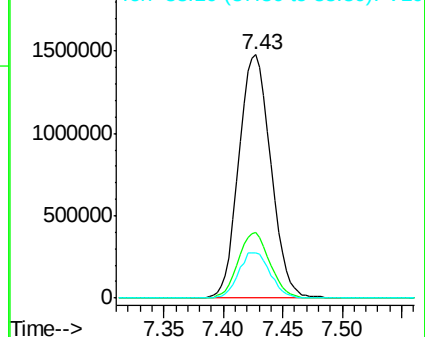
114 100

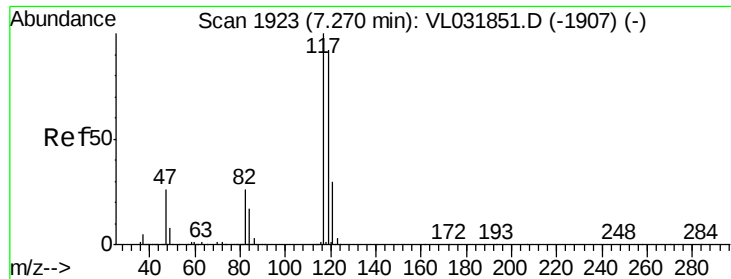
63 26.8 21.4 32.2

88 18.7 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





#35

Carbon Tetrachloride

Concen: 0.07 ppbv

RT: 7.27 min Scan# 1923

Delta R.T. 0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

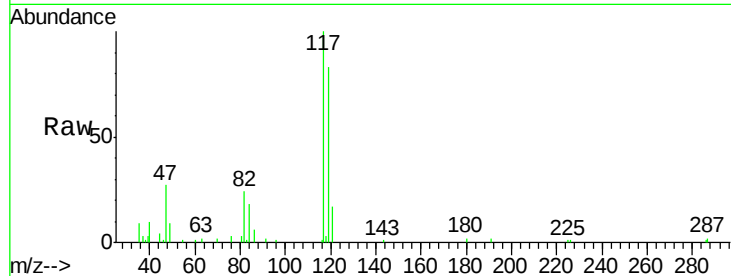
Tgt Ion: 117 Resp: 14906

Ion Ratio Lower Upper

117 100

119 79.6 73.4 110.0

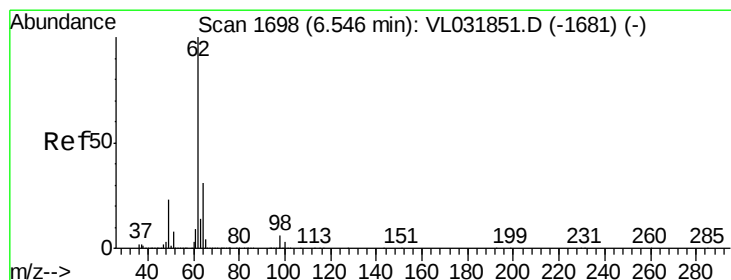
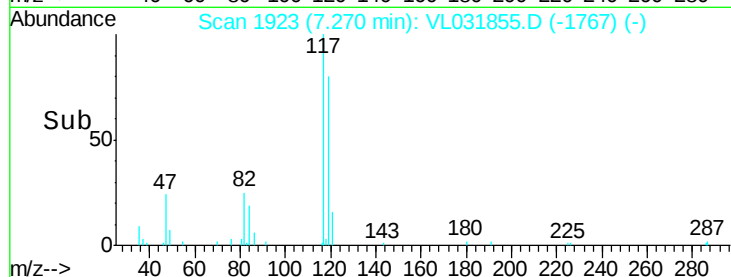
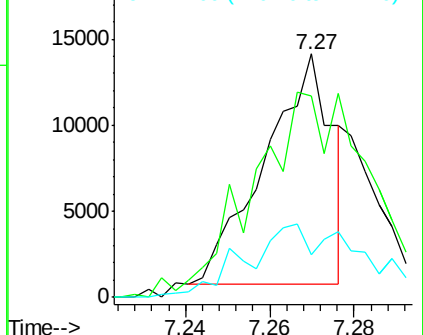
121 15.7 24.2 36.4#



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



#37

1,2-Dichloroethane

Concen: 0.08 ppbv

RT: 6.54 min Scan# 1696

Delta R.T. -0.01 min

Lab File: VL031855.D

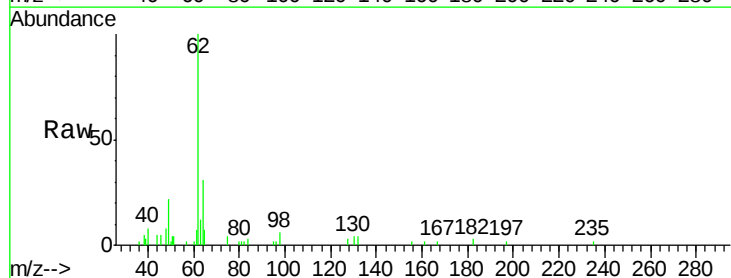
Acq: 12 Apr 2018 2:50

Tgt Ion: 62 Resp: 13822

Ion Ratio Lower Upper

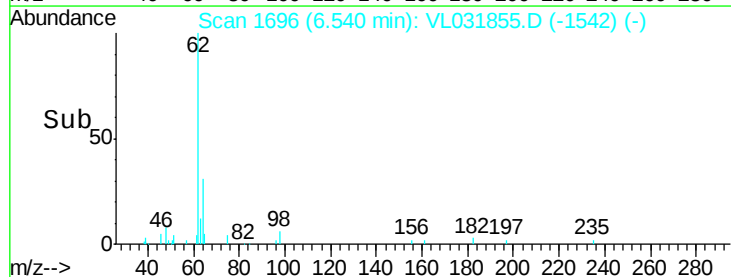
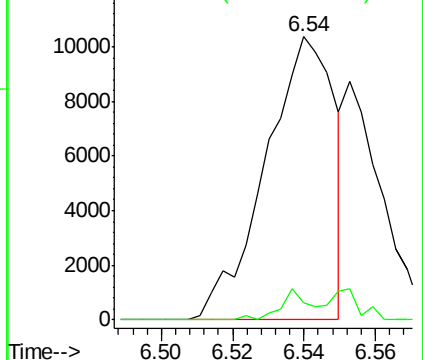
62 100

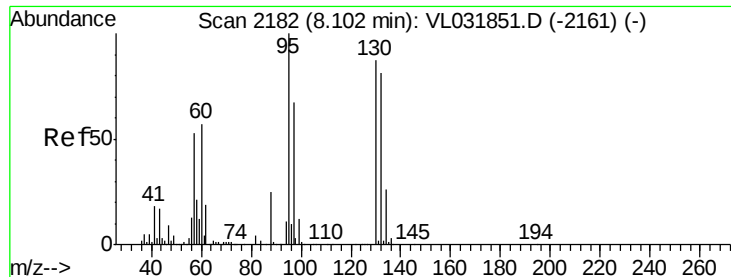
98 9.0 4.5 6.7#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.03 ppbv

RT: 8.10 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:130 Resp: 3322

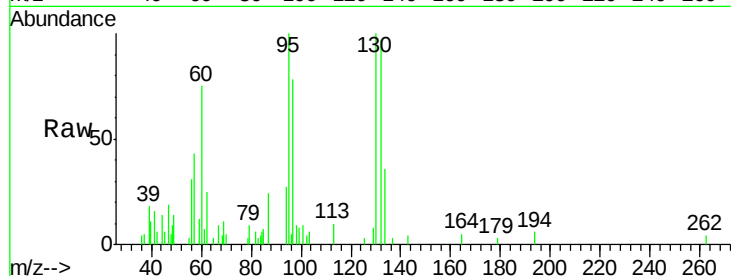
Ion Ratio Lower Upper

130 100

95 64.3 92.1 138.1#

132 52.4 74.8 112.2#

97 28.1 61.7 92.5#

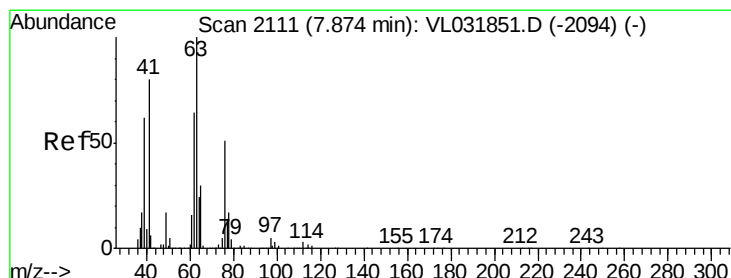
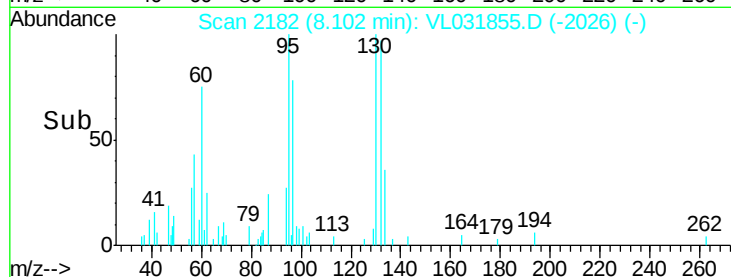
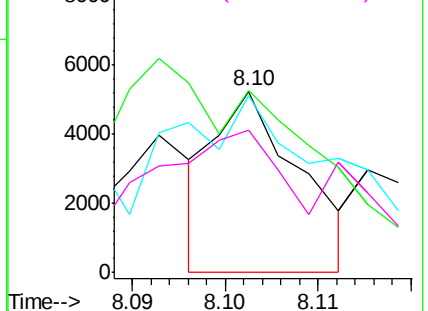


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.81 ppbv

RT: 7.43 min Scan# 1972

Delta R.T. -0.45 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

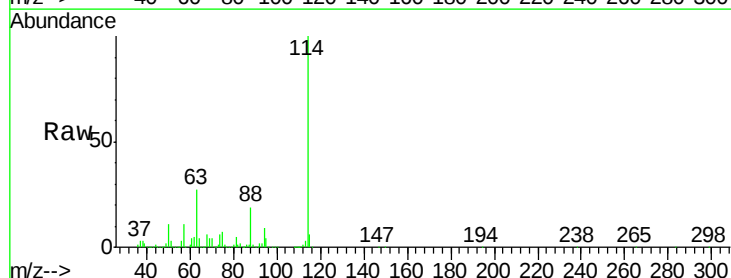
Tgt Ion: 63 Resp: 734040

Ion Ratio Lower Upper

63 100

41 0.0 64.1 96.1#

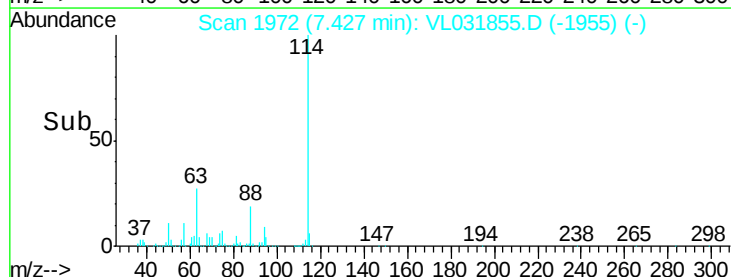
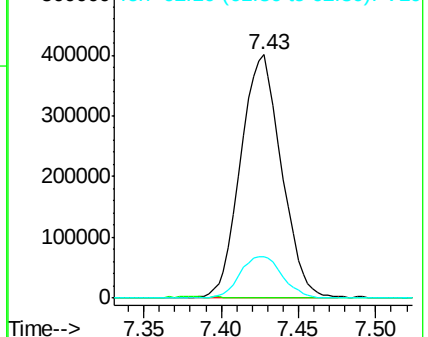
62 16.8 51.5 77.3#

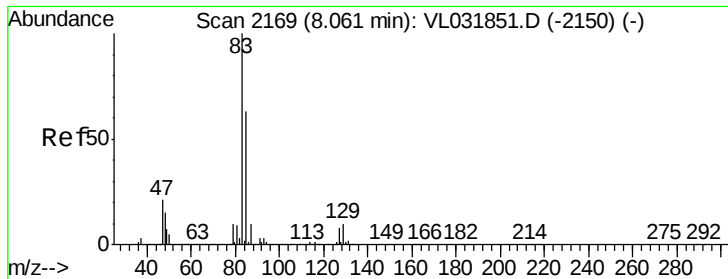


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.06 ppbv

RT: 8.05 min Scan# 2167

Delta R.T. -0.01 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

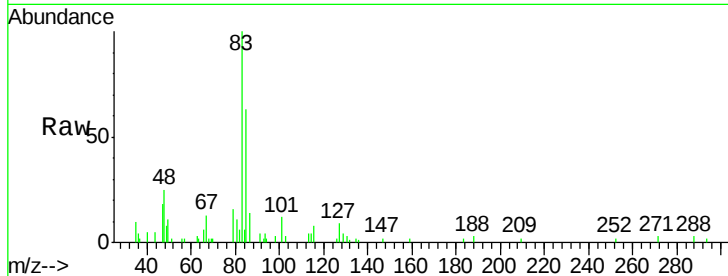
Tgt Ion: 83 Resp: 12586

Ion Ratio Lower Upper

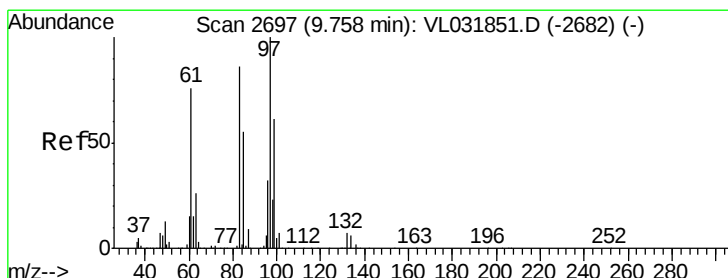
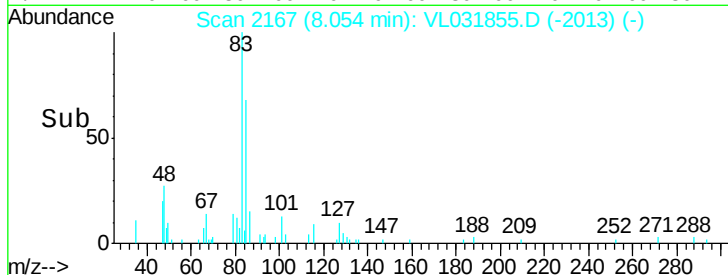
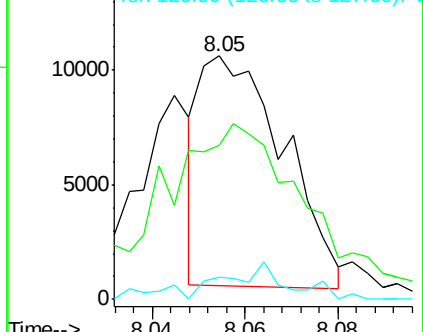
83 100

85 53.4 50.3 75.5

127 10.3 6.1 9.1#



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): VL0



#47

1,1,2-Trichloroethane

Concen: 0.09 ppbv

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Tgt Ion: 97 Resp: 10043

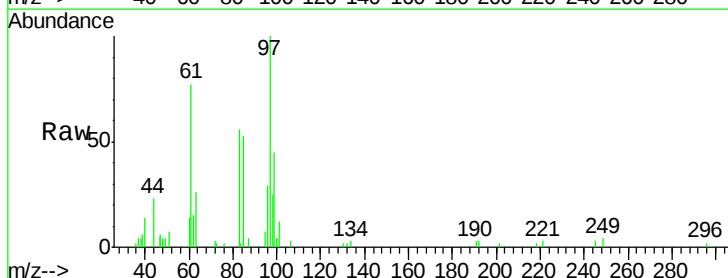
Ion Ratio Lower Upper

97 100

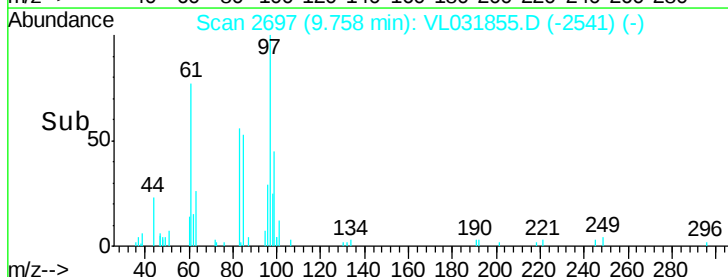
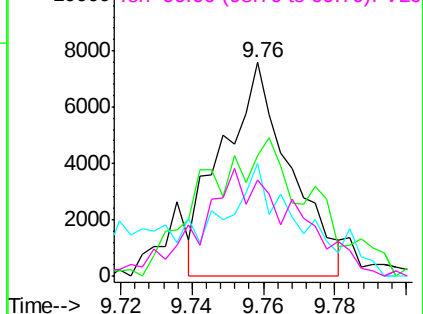
83 51.0 68.4 102.6#

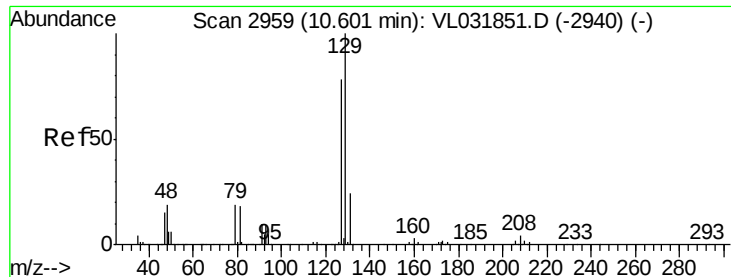
85 51.0 44.5 66.7

99 39.7 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: 0.04 ppbv

RT: 10.59 min Scan# 2957

Delta R.T. -0.01 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Instrument :

MSVOA_L

ClientSampleId :

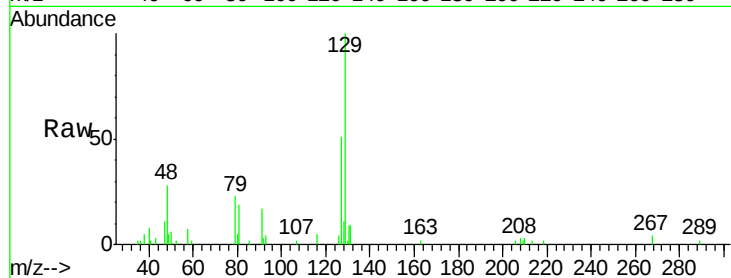
VSTDIC0.1

Tgt Ion:129 Resp: 7223

Ion Ratio Lower Upper

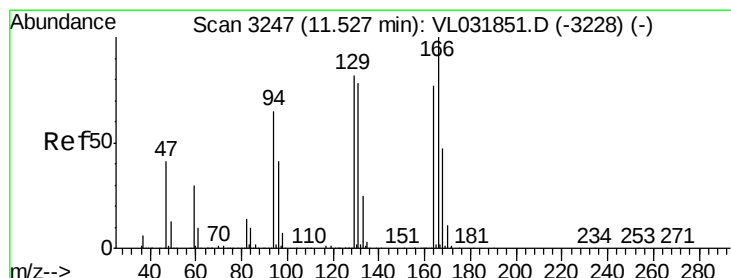
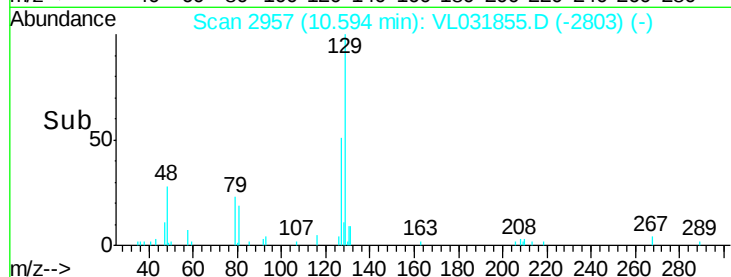
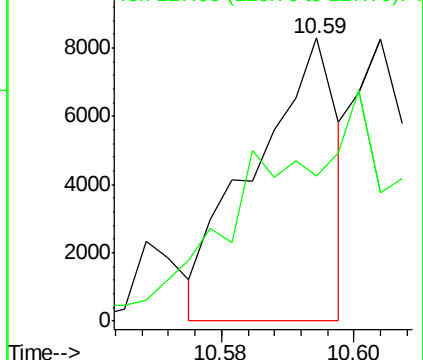
129 100

127 0.0 39.1 117.2#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#52

Tetrachloroethene

Concen: 0.03 ppbv

RT: 11.52 min Scan# 3244

Delta R.T. -0.01 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Tgt Ion:164 Resp: 3493

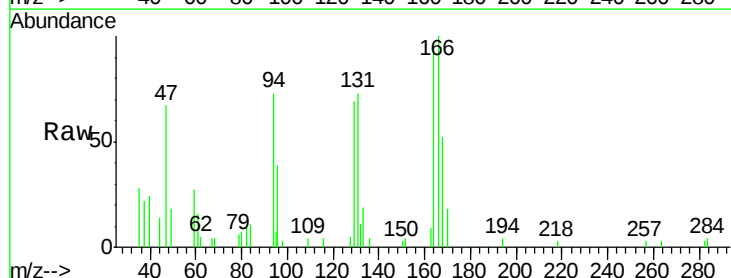
Ion Ratio Lower Upper

164 100

166 94.2 103.3 154.9#

129 34.9 84.2 126.4#

131 75.8 80.6 121.0#

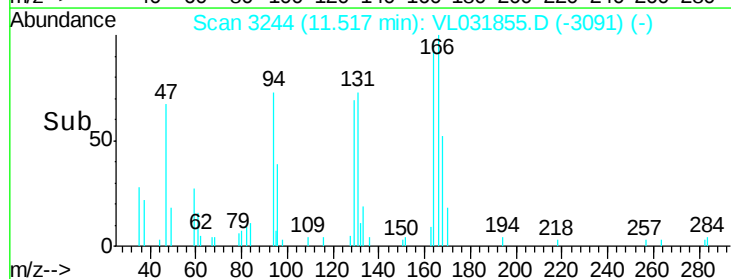
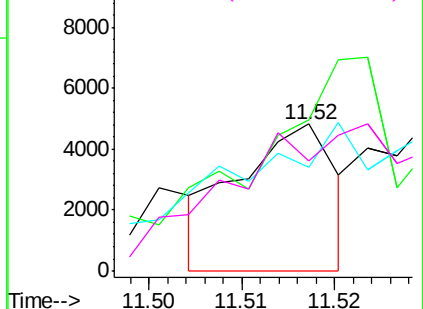


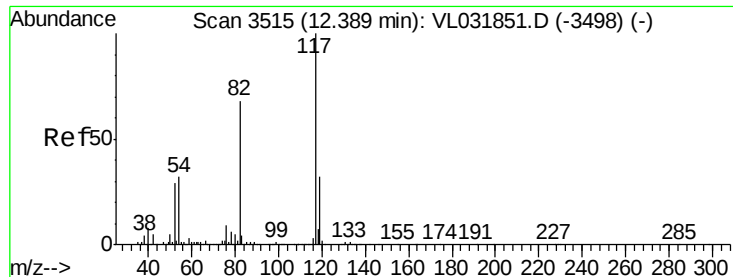
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

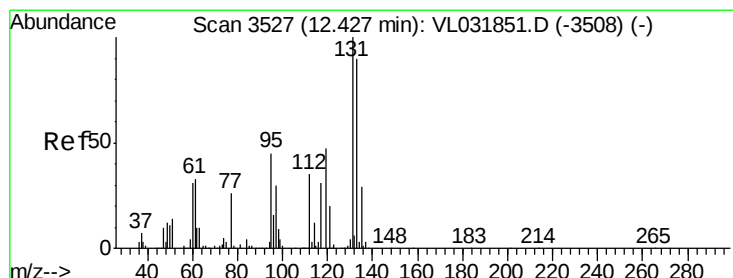
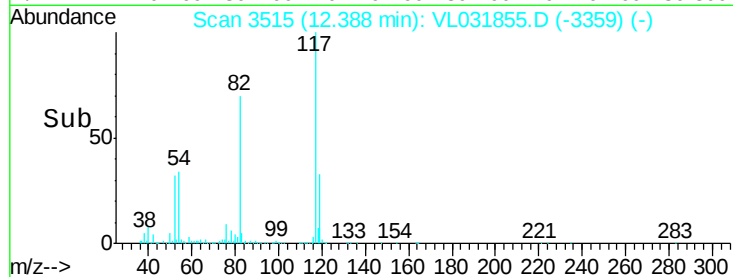
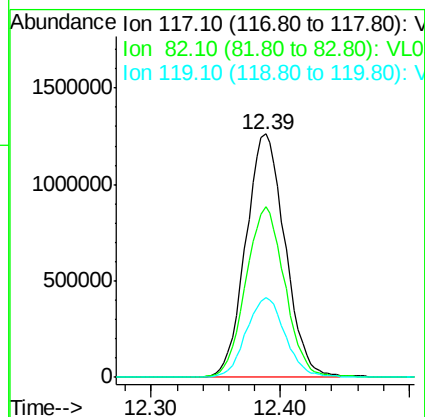
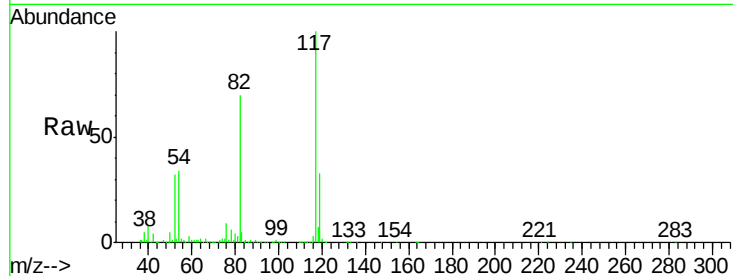




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.39 min Scan# 3515
Delta R.T. -0.00 min
Lab File: VL031855.D
Acq: 12 Apr 2018 2:50

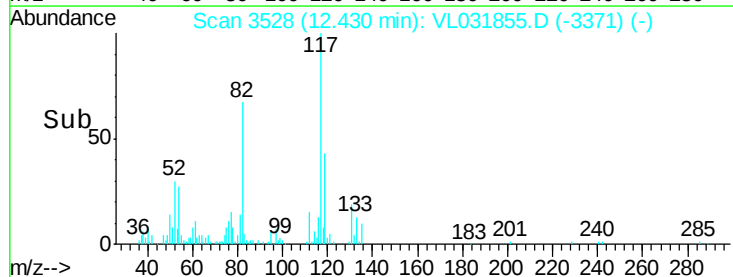
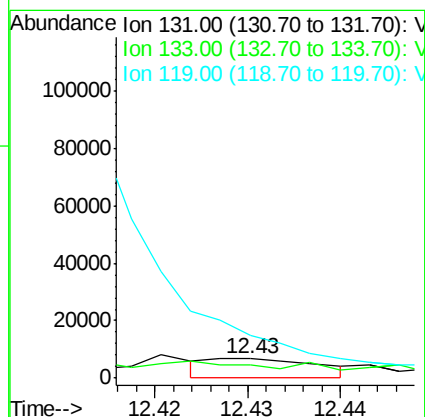
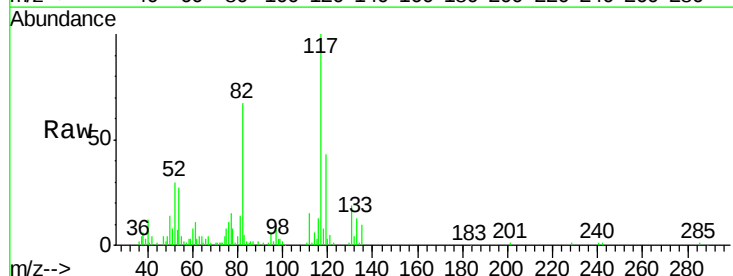
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

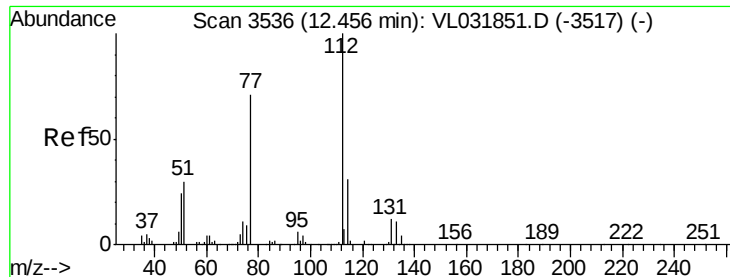
Tgt Ion:117 Resp: 2677059
Ion Ratio Lower Upper
117 100
82 70.2 52.9 79.3
119 32.9 43.8 65.6#



#56
1,1,1,2-Tetrachloroethane
Concen: 0.04 ppbv
RT: 12.43 min Scan# 3528
Delta R.T. 0.00 min
Lab File: VL031855.D
Acq: 12 Apr 2018 2:50

Tgt Ion:131 Resp: 5391
Ion Ratio Lower Upper
131 100
133 0.0 75.9 113.9#
119 0.0 106.7 160.1#





#57

Chlorobenzene

Concen: 0.05 ppbv

RT: 12.45 min Scan# 3535

Delta R.T. -0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

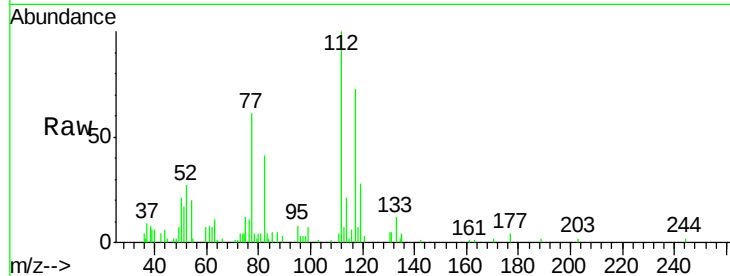
Tgt Ion: 112 Resp: 12932

Ion Ratio Lower Upper

112 100

77 55.0 58.2 87.2#

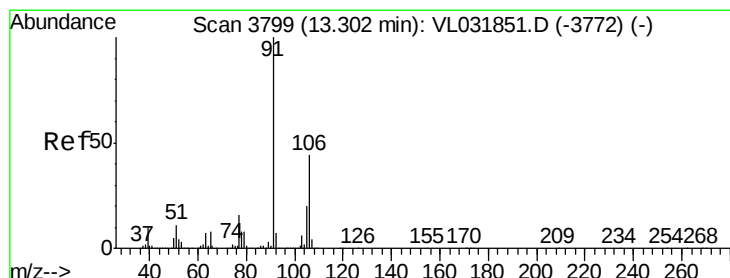
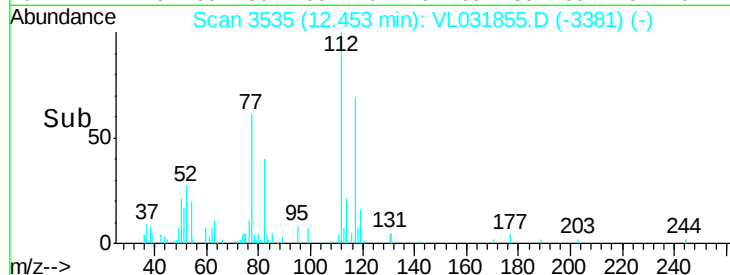
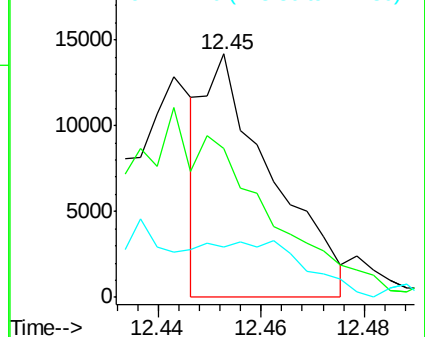
114 14.9 28.4 34.7#



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



#59

m/p-Xylene

Concen: 0.03 ppbv

RT: 13.31 min Scan# 3801

Delta R.T. 0.01 min

Lab File: VL031855.D

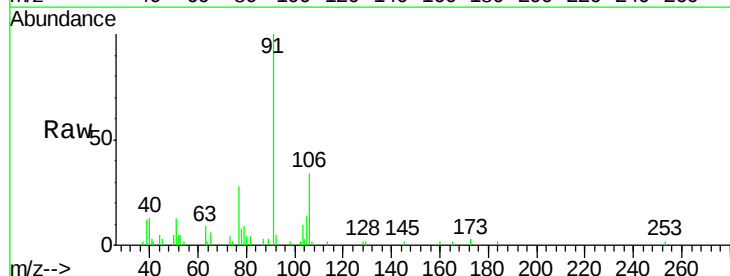
Acq: 12 Apr 2018 2:50

Tgt Ion: 91 Resp: 10782

Ion Ratio Lower Upper

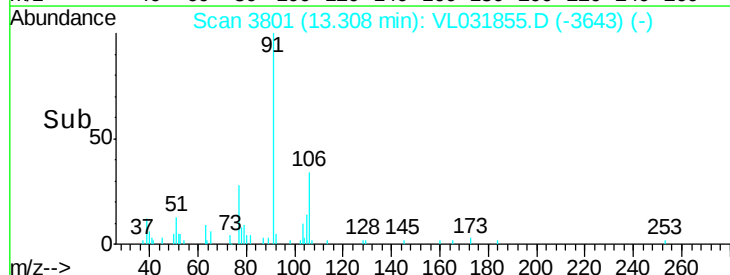
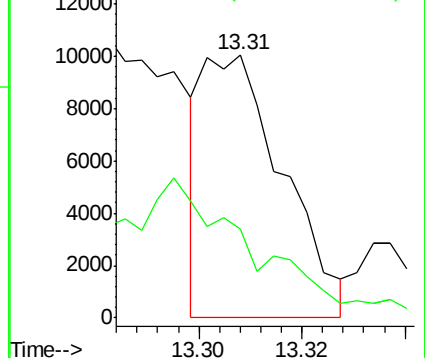
91 100

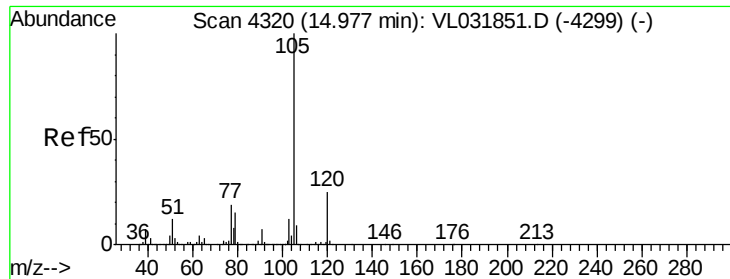
106 0.0 0.0 0.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#62

Isopropylbenzene

Concen: 0.05 ppbv

RT: 14.97 min Scan# 4319

Delta R.T. -0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Instrument :

MSVOA_L

ClientSampleId :

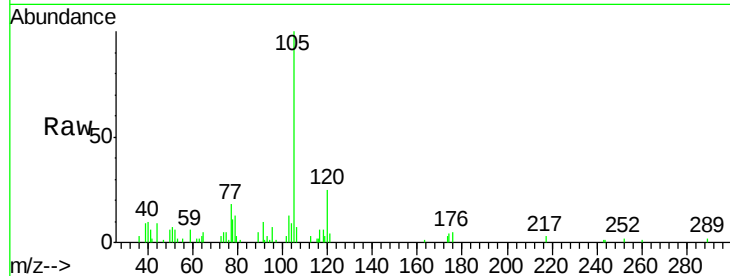
VSTDIC0.1

Tgt Ion:105 Resp: 21883

Ion Ratio Lower Upper

105 100

120 36.5 19.8 29.6#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.97

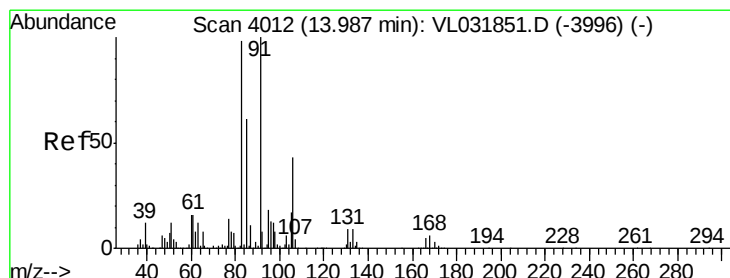
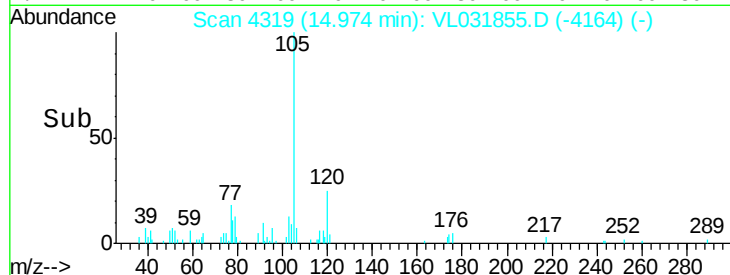
15000

10000

5000

0

Time--> 14.90 14.95



#63

1,1,2,2-Tetrachloroethane

Concen: 0.06 ppbv

RT: 13.99 min Scan# 4013

Delta R.T. 0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

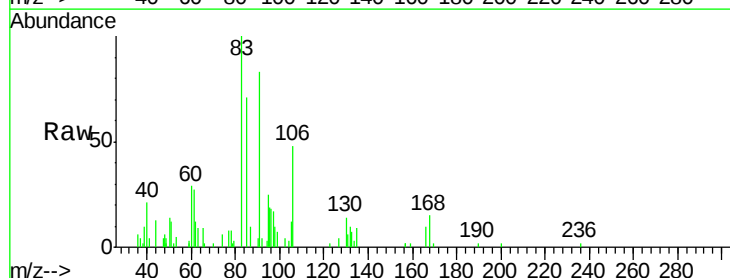
Tgt Ion: 83 Resp: 12867

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.4#

85 139.2 32.8 98.4#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0

13.99

12000

10000

8000

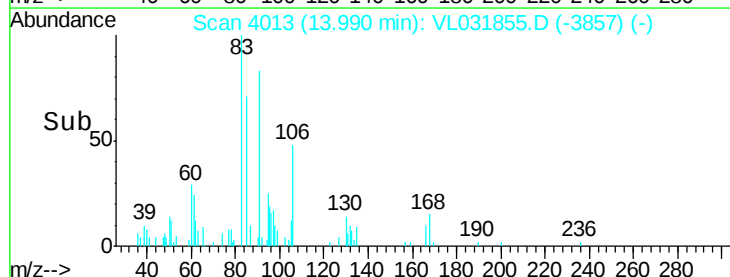
6000

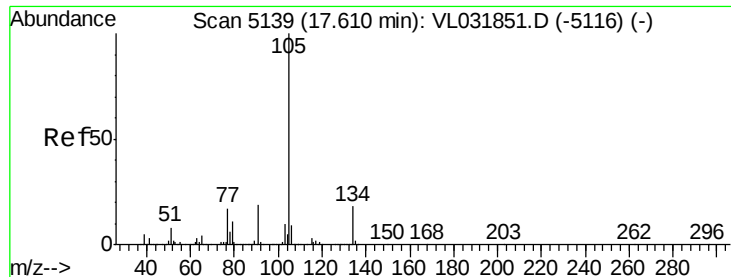
4000

2000

0

Time--> 13.96 13.98 14.00





#67

sec-Butylbenzene

Concen: 0.03 ppbv

RT: 17.61 min Scan# 5138

Delta R.T. -0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Instrument :

MSVOA_L

ClientSampleId :

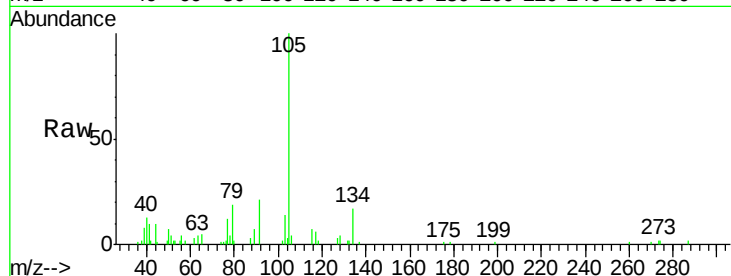
VSTDIC0.1

Tgt Ion: 105 Resp: 18323

Ion Ratio Lower Upper

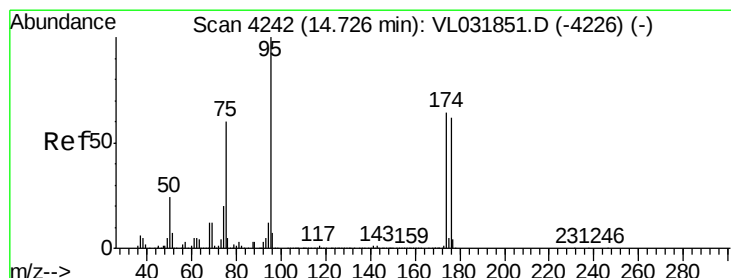
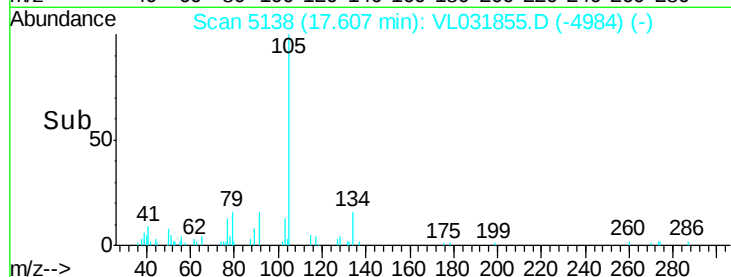
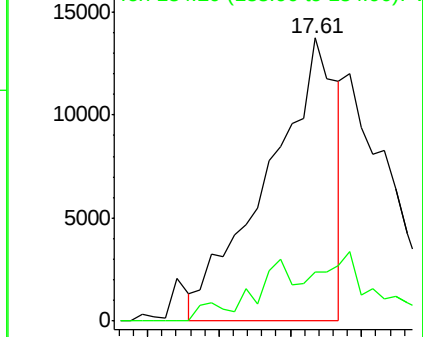
105 100

134 0.0 14.0 21.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.96 ppbv

RT: 14.73 min Scan# 4242

Delta R.T. -0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

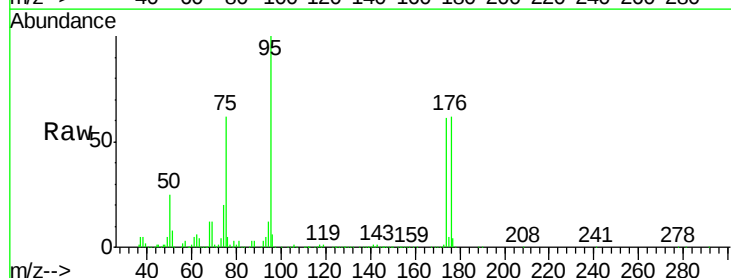
Tgt Ion: 95 Resp: 2204485

Ion Ratio Lower Upper

95 100

174 64.7 52.2 78.2

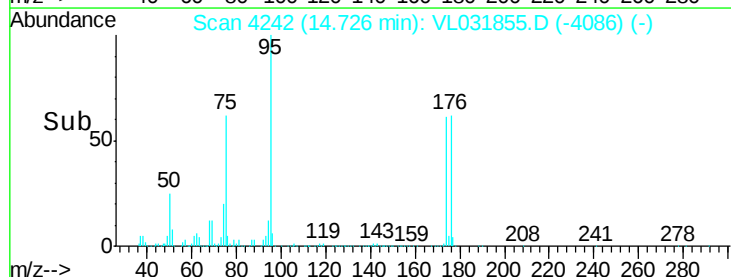
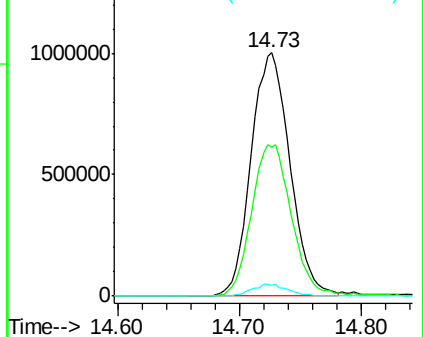
175 4.7 3.8 5.8

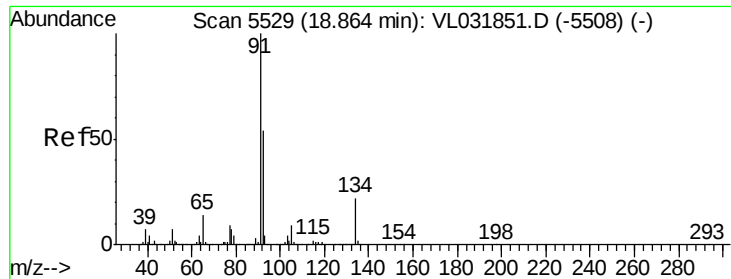


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

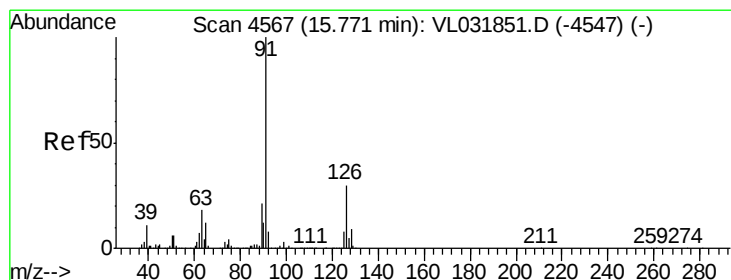
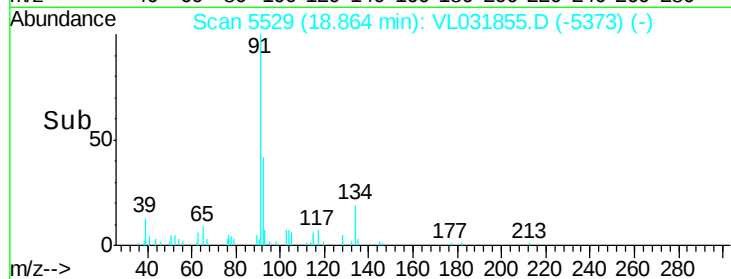
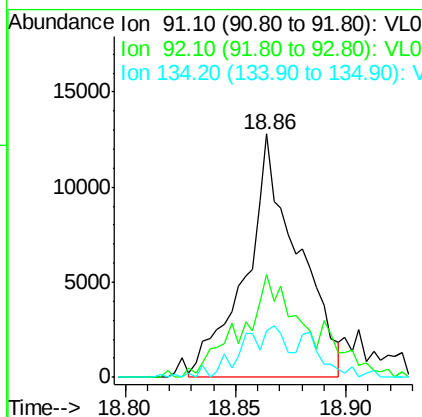
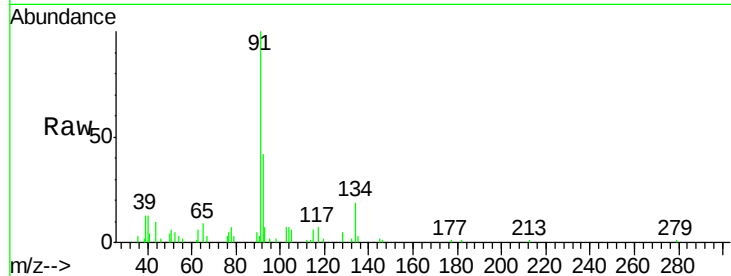




#70
n-Butylbenzene
Concen: 0.05 ppbv
RT: 18.86 min Scan# 5529
Delta R.T. -0.00 min
Lab File: VL031855.D
Acq: 12 Apr 2018 2:50

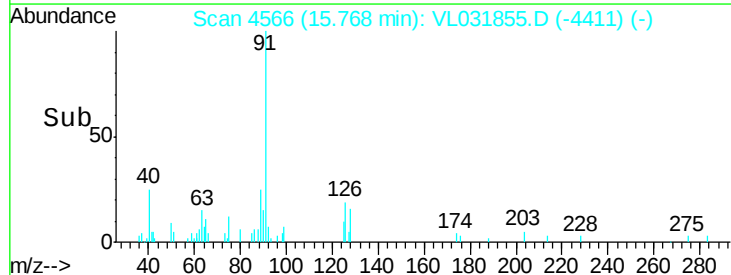
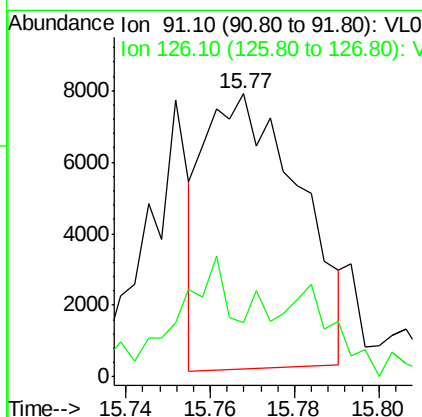
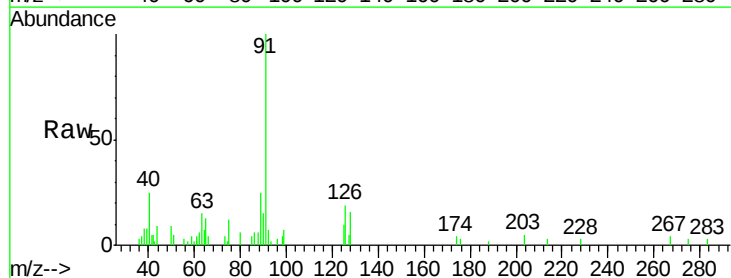
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

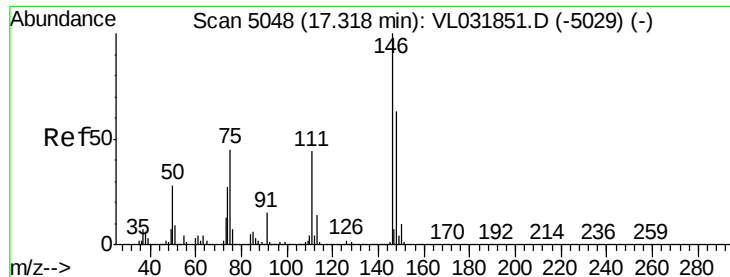
Tgt Ion: 91 Resp: 20872
Ion Ratio Lower Upper
91 100
92 55.6 42.2 63.4
134 27.4 17.2 25.8#



#71
2-Chlorotoluene
Concen: 0.04 ppbv
RT: 15.77 min Scan# 4566
Delta R.T. -0.00 min
Lab File: VL031855.D
Acq: 12 Apr 2018 2:50

Tgt Ion: 91 Resp: 12063
Ion Ratio Lower Upper
91 100
126 55.3 11.5 45.9#





#75

1,3-Dichlorobenzene

Concen: 0.05 ppbv

RT: 17.31 min Scan# 5047

Delta R.T. -0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

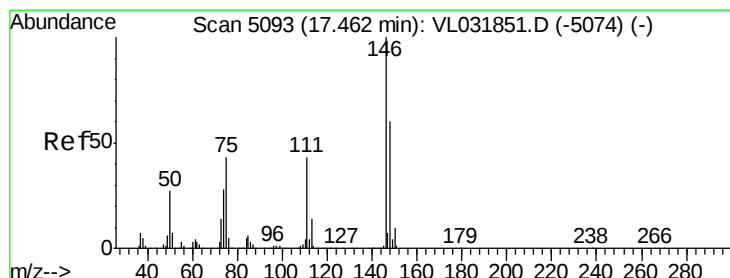
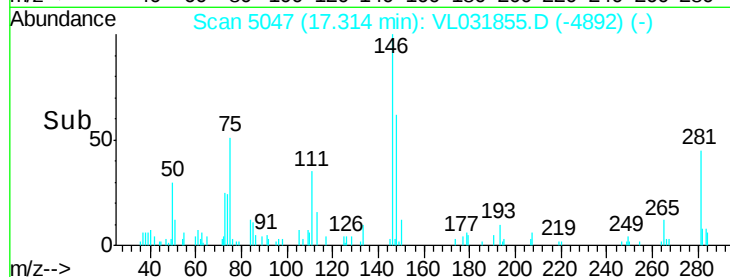
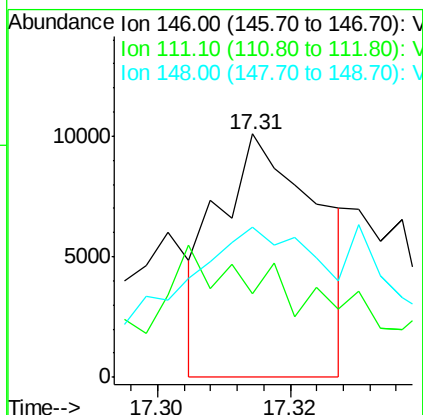
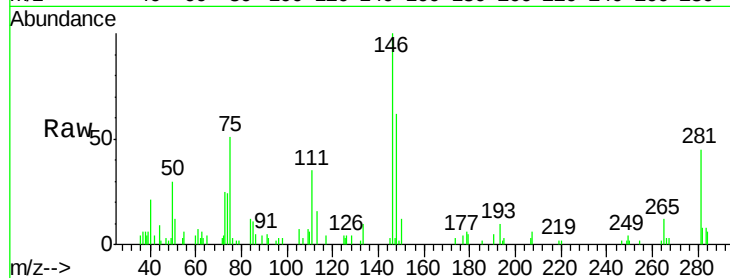
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:	146	Resp:	10590
Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.4	70.0#
148	0.0	32.1	96.5#



#76

1,4-Dichlorobenzene

Concen: 0.03 ppbv

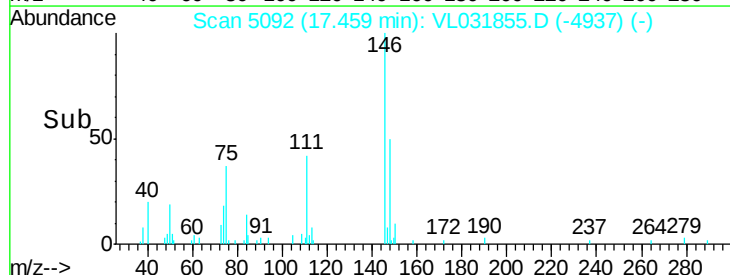
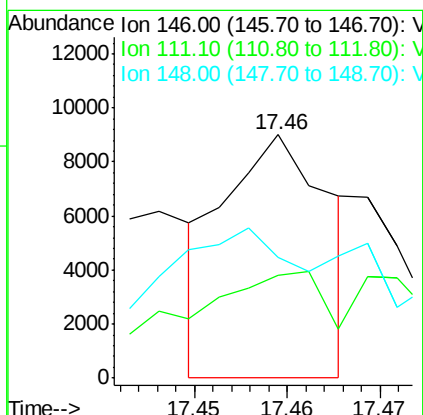
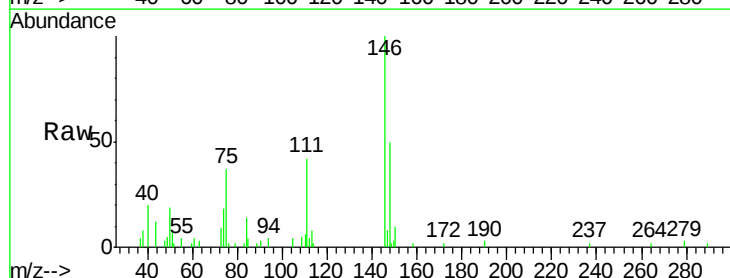
RT: 17.46 min Scan# 5092

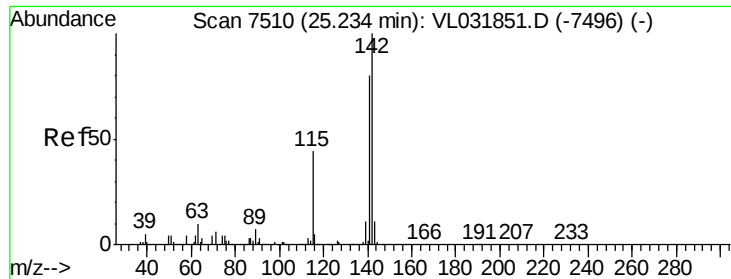
Delta R.T. -0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Tgt Ion:	146	Resp:	7088
Ion	Ratio	Lower	Upper
146	100		
111	136.1	22.9	68.7#
148	192.0	32.1	96.5#





#80

Naphthalene, 2-methyl-

Concen: 0.03 ppbv

RT: 25.24 min Scan# 7511

Delta R.T. 0.00 min

Lab File: VL031855.D

Acq: 12 Apr 2018 2:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

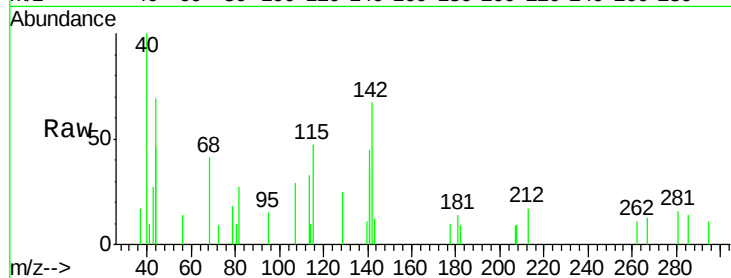
Tgt Ion:142 Resp: 1694

Ion Ratio Lower Upper

142 100

141 7.3 65.8 98.8#

115 18.3 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

