

Data File : VL031873.D

Acq On : 12 Apr 2018 20:05

Operator : SY/AP

Sample : J2191-04

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

SVE-INF3-040218

Quant Time: Apr 14 01:37:31 2018

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 16:50:02 2018

QLast Update : Fri Apr 13 16:50:02 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1147086	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2341474	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2349661	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.73	95	1833502	9.70	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%

Target Compounds

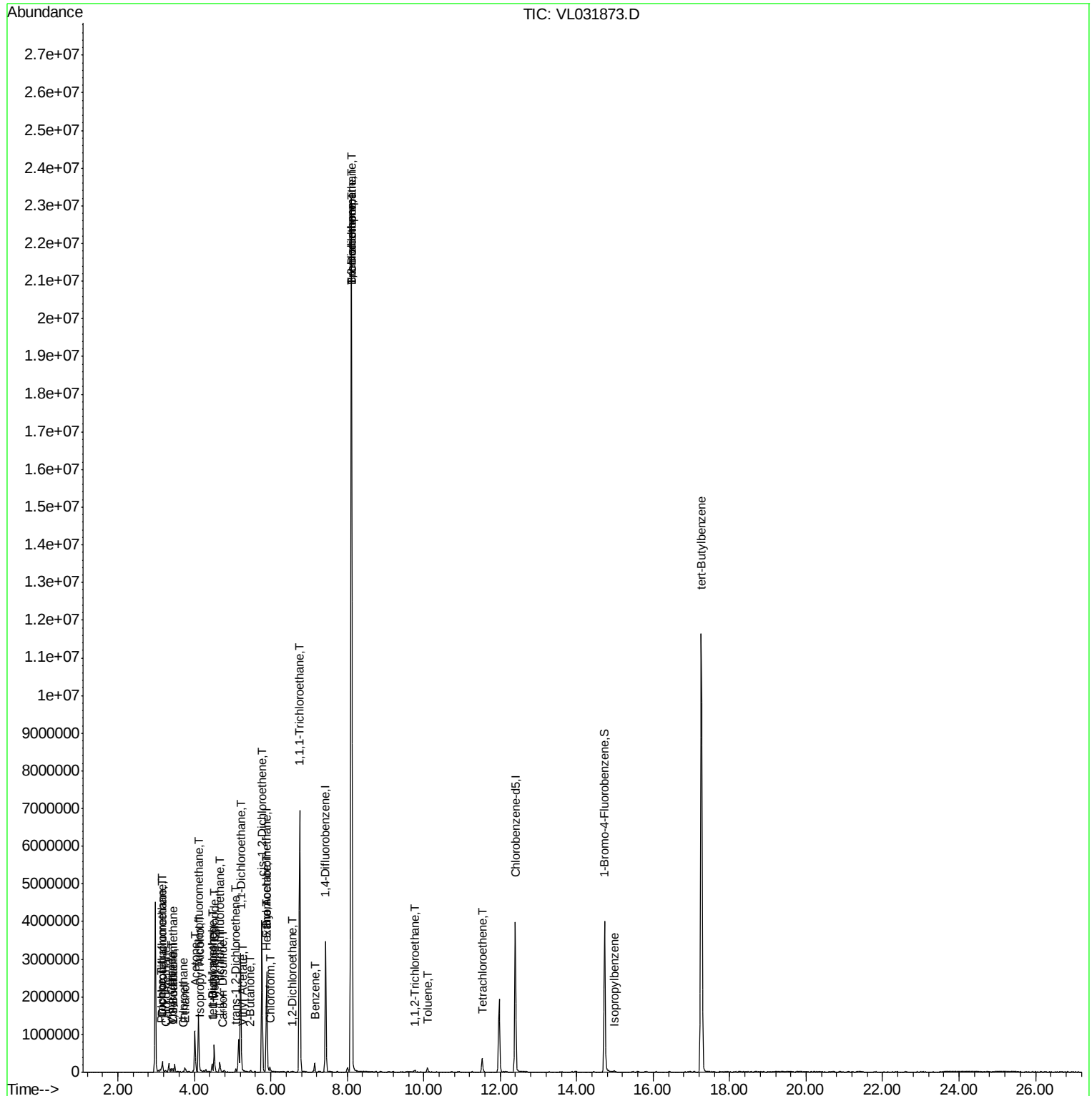
						Qvalue
2) Dichlorodifluoromethane	3.16	85	197442	0.83	ppbv	97
3) Chlorodifluoromethane	3.44	51	5988	0.04	ppbv	94
4) Chloromethane	3.26	50	16098	0.24	ppbv	98
5) Vinyl Chloride	3.38	62	60276	0.79	ppbv	98
7) Chloroethane	3.70	64	14100	0.46	ppbv #	83
8) Dichlorotetrafluoroethane	3.16	85	197442	1.02	ppbv #	17
9) Propene	3.14	41	27179	0.59	ppbv	98
11) Trichlorofluoromethane	4.11	101	998388	4.30	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.67	101	87517	0.58	ppbv	96
13) Ethanol	3.76	45	115284	7.36	ppbv	95
15) Acetone	4.01	43	1144384	6.48	ppbv	96
16) 1,3-Butadiene	3.44	39	6077	0.09	ppbv #	43
17) tert-Butyl alcohol	4.47	59	3510	0.05	ppbv #	72
18) 1,1-Dichloroethene	4.47	96	56513	0.87	ppbv	95
19) Isopropyl Alcohol	4.14	45	31197	0.32	ppbv #	94
20) Methylene Chloride	4.52	84	245263	3.81	ppbv	97
22) trans-1,2-Dichloroethene	5.09	96	25200	0.38	ppbv #	85
23) Vinyl Acetate	5.27	43	11987	0.07	ppbv #	70
24) 1,1-Dichloroethane	5.21	63	2610355	14.64	ppbv	99
25) Ethyl Acetate	5.91	43	43024	0.16	ppbv #	80
26) Hexane	5.91	57	55237	0.43	ppbv #	43
27) Carbon Disulfide	4.74	76	5284	0.03	ppbv #	21
29) Chloroform	5.97	83	70960	0.33	ppbv	91
31) cis-1,2-Dichloroethene	5.77	61	2241396	19.27	ppbv	99
32) 1,1,1-Trichloroethane	6.76	97	4634216	21.87	ppbv	100
34) 2-Butanone	5.47	43	42125	0.26	ppbv	97
36) Benzene	7.14	78	178557	0.85	ppbv	96
37) 1,2-Dichloroethane	6.55	62	6271	0.04	ppbv #	85
38) Trichloroethene	8.11	130	7980365	93.35	ppbv	93
39) 1,2-Dichloropropane	8.10	63	17356	0.22	ppbv #	1
42) Bromodichloromethane	8.11	83	111832	0.60	ppbv	88
47) 1,1,2-Trichloroethane	9.76	97	3211	0.03	ppbv #	38
52) Tetrachloroethene	11.53	164	82214	1.00	ppbv	92
53) Toluene	10.09	91	72857	0.31	ppbv	99
62) Isopropylbenzene	14.98	105	18376	0.05	ppbv #	87
65) tert-Butylbenzene	17.25	119	94336	0.30	ppbv #	28

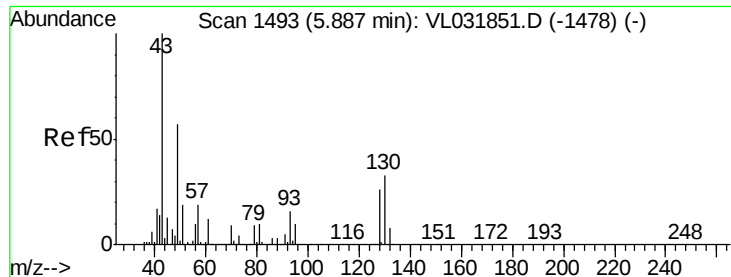
(#)=qualifier out of range (m)=manual integration (+)=signals summed

ALS Vial : 1 Sample Multiplier: 1

SVE-INF3-040218

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.89 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VL031873.D

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MSVOA_L

ClientSampleId :

SVE-INF3-040218

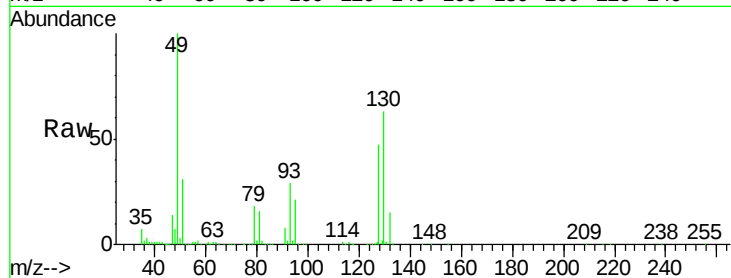
Tgt Ion: 49 Resp: 1147086

Ion Ratio Lower Upper

49 100

128 48.1 23.9 71.7

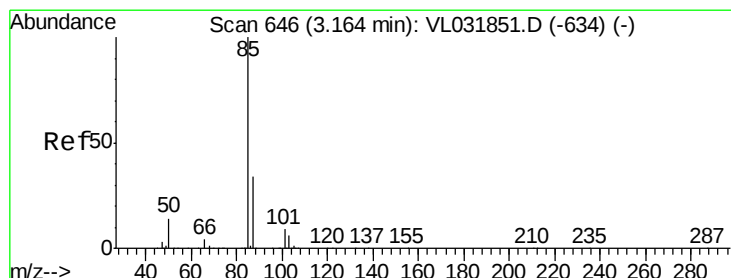
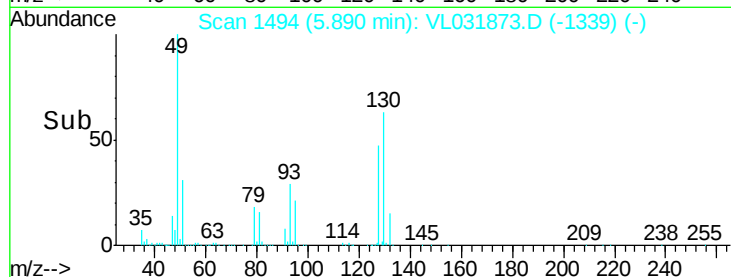
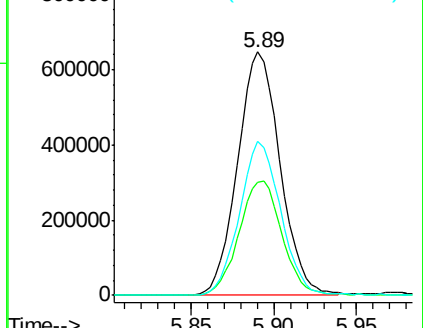
130 62.1 30.9 92.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.83 ppbv

RT: 3.16 min Scan# 646

Delta R.T. -0.00 min

Lab File: VL031873.D

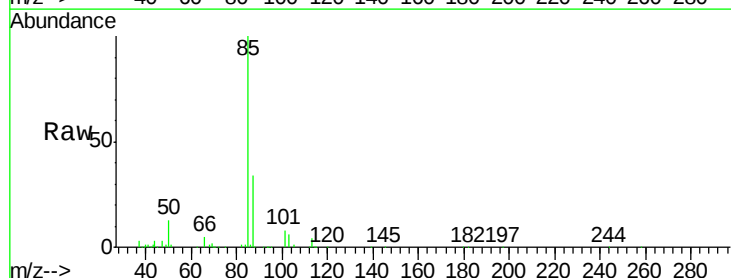
Acq: 12 Apr 2018 20:05

Tgt Ion: 85 Resp: 197442

Ion Ratio Lower Upper

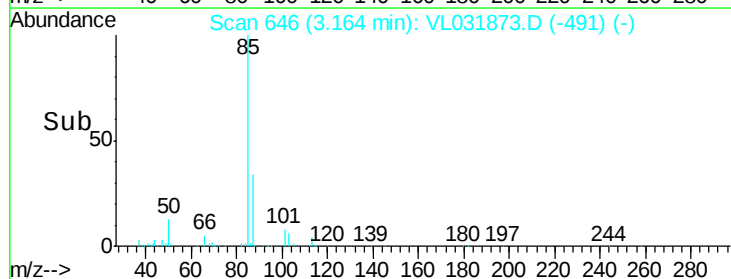
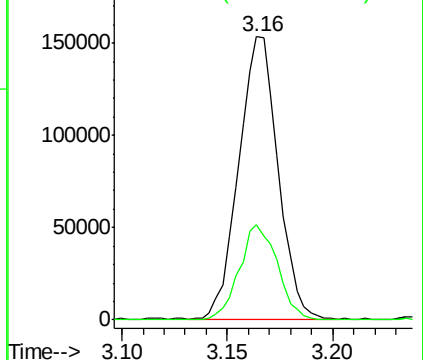
85 100

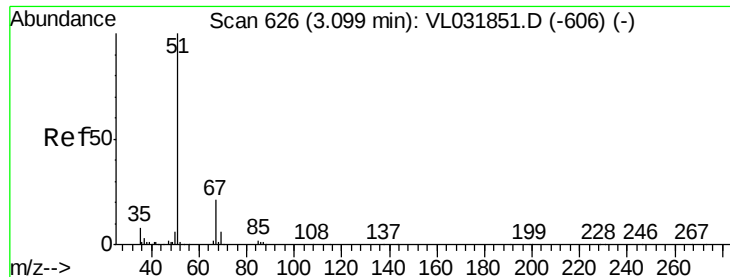
87 33.8 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.04 ppbv

RT: 3.44 min Scan# 732

Delta R.T. 0.34 min

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Acq: 12 Apr 2018 20:05

Instrument :

MSVOA_L

ClientSampleId :

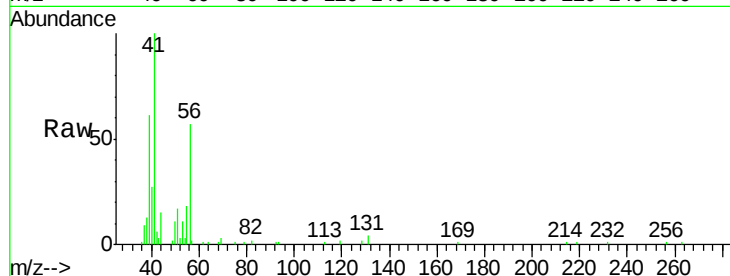
SVE-INF3-040218

Tgt Ion: 51 Resp: 5988

Ion Ratio Lower Upper

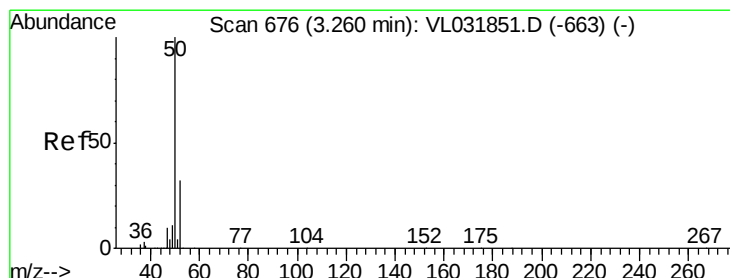
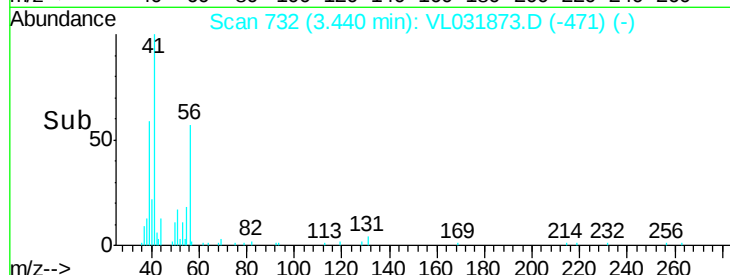
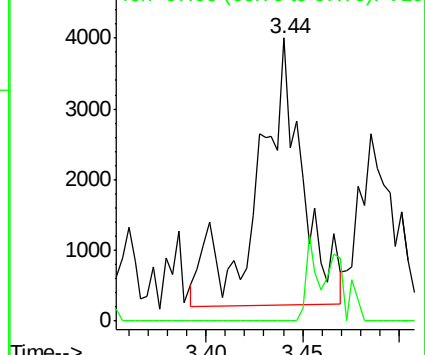
51 100

67 19.0 17.5 26.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.24 ppbv

RT: 3.26 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL031873.D

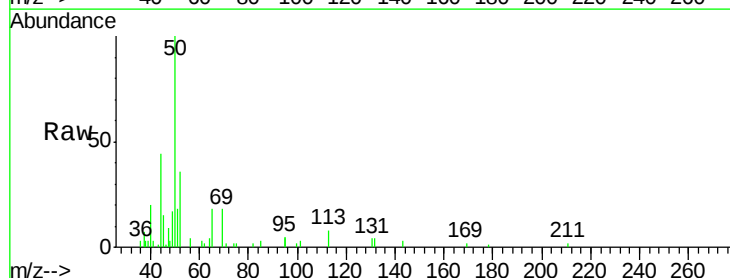
Acq: 12 Apr 2018 20:05

Tgt Ion: 50 Resp: 16098

Ion Ratio Lower Upper

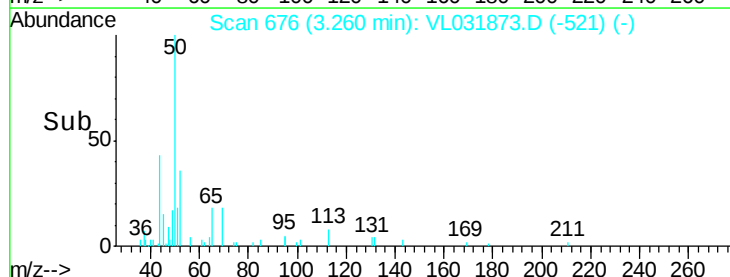
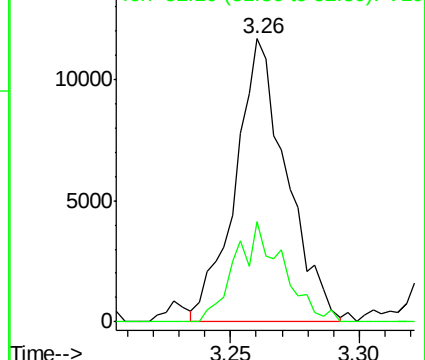
50 100

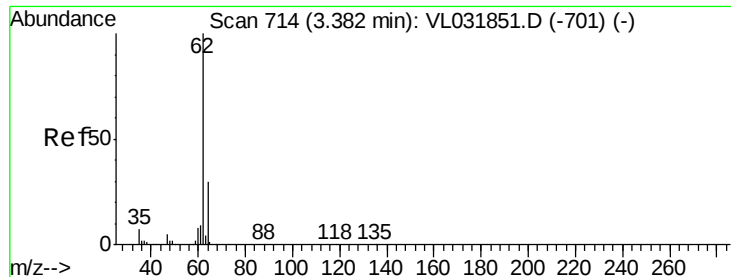
52 36.3 28.1 42.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.79 ppbv

RT: 3.38 min Scan# 714

Delta R.T. -0.00 min

Lab File: VL031873.D

Acq: 12 Apr 2018 20:05

Instrument :

MSVOA_L

ClientSampleId :

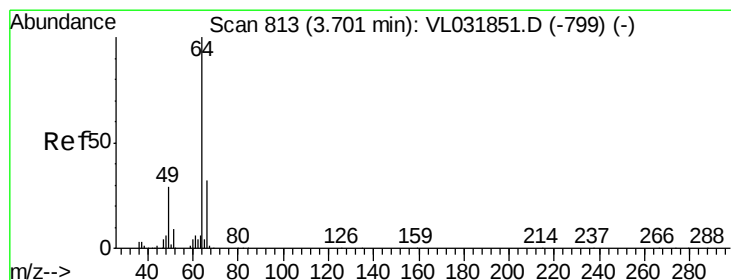
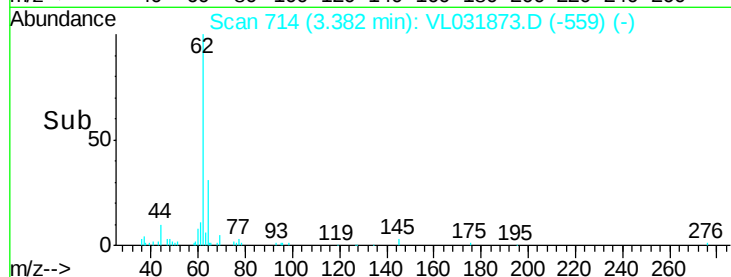
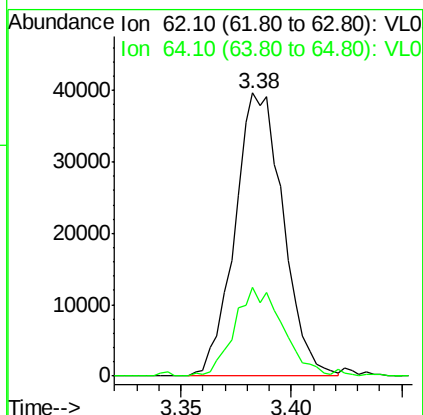
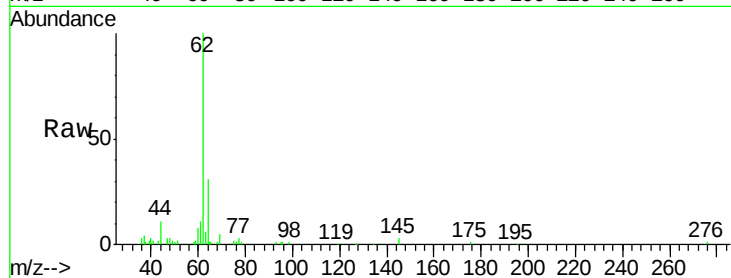
SVE-INF3-040218

Tgt Ion: 62 Resp: 60276

Ion Ratio Lower Upper

62 100

64 31.2 25.9 38.9



#7

Chloroethane

Concen: 0.46 ppbv

RT: 3.70 min Scan# 814

Delta R.T. 0.01 min

Lab File: VL031873.D

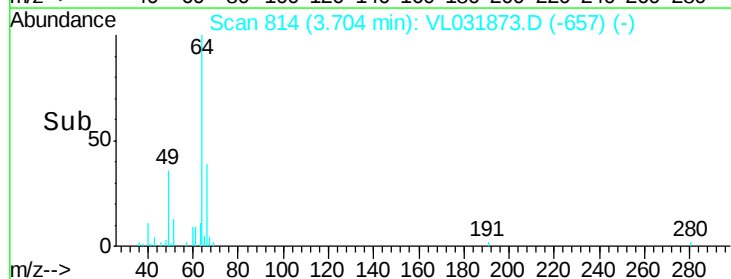
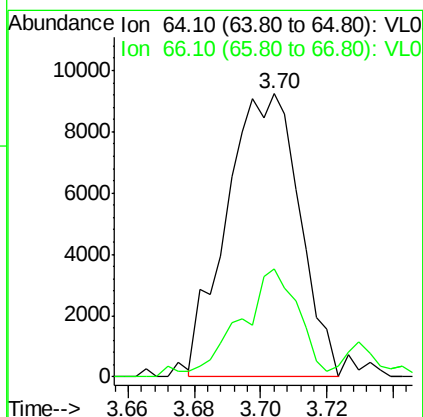
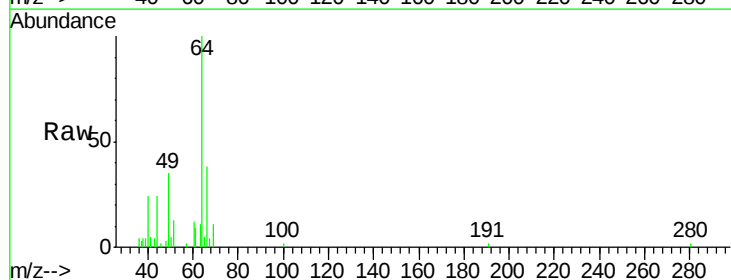
Acq: 12 Apr 2018 20:05

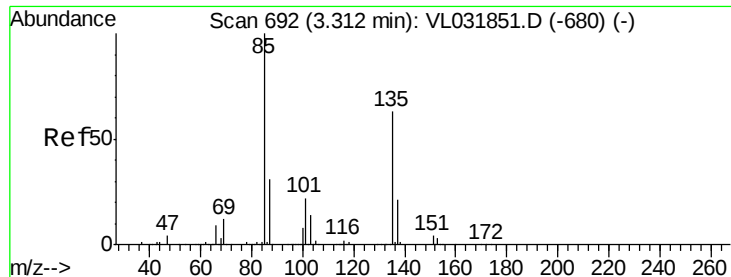
Tgt Ion: 64 Resp: 14100

Ion Ratio Lower Upper

64 100

66 38.2 23.4 35.0#





#8

Dichlorotetrafluoroethane

Concen: 1.02 ppbv

RT: 3.16 min Scan# 646

Delta R.T. -0.15 min

Lab File: VL031873.D

Acq: 12 Apr 2018 20:05

Instrument :

MSVOA_L

ClientSampleId :

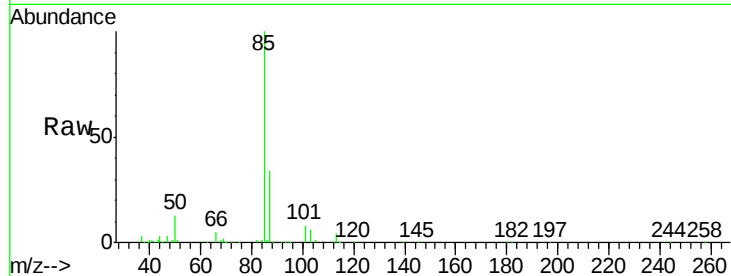
SVE-INF3-040218

Tgt Ion: 85 Resp: 197442

Ion Ratio Lower Upper

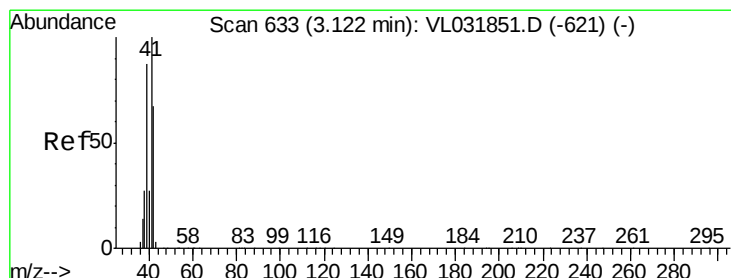
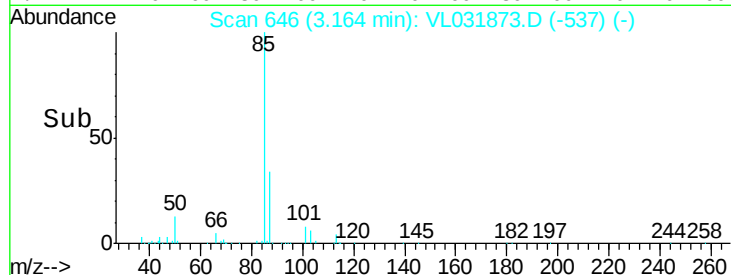
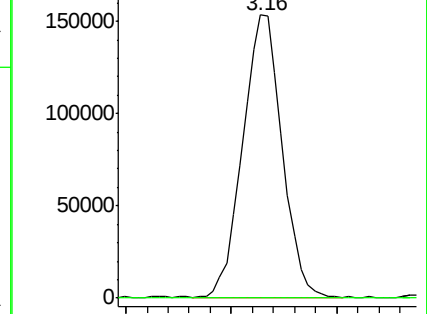
85 100

135 0.1 52.7 79.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 0.59 ppbv

RT: 3.14 min Scan# 638

Delta R.T. 0.02 min

Lab File: VL031873.D

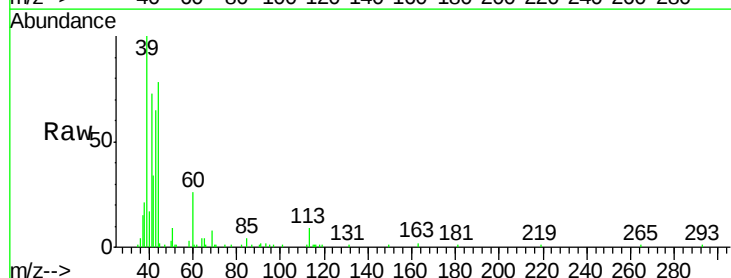
Acq: 12 Apr 2018 20:05

Tgt Ion: 41 Resp: 27179

Ion Ratio Lower Upper

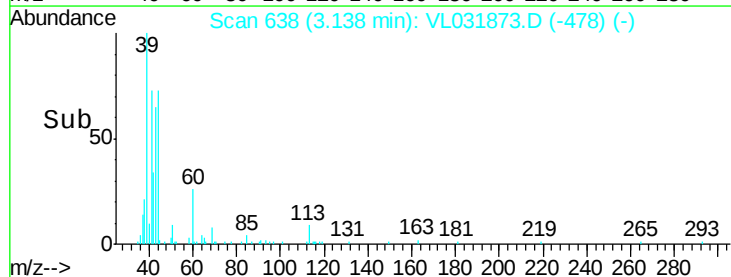
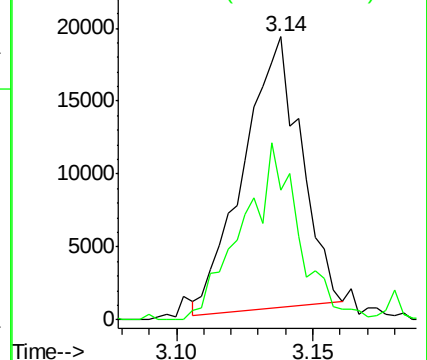
41 100

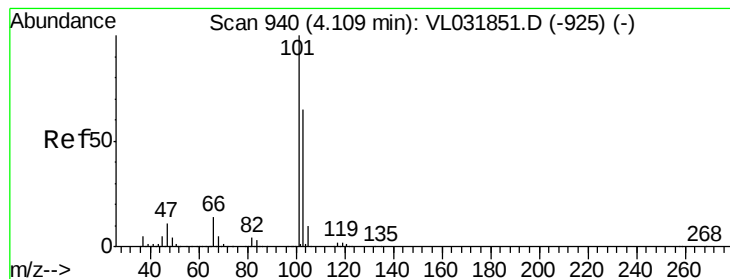
42 67.0 55.0 82.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#11

Trichlorofluoromethane

Concen: 4.30 ppbv

RT: 4.11 min Scan# 941

Delta R.T. 0.00 min

Lab File: VL031873.D

Acq: 12 Apr 2018 20:05

Instrument :

MSVOA_L

ClientSampleId :

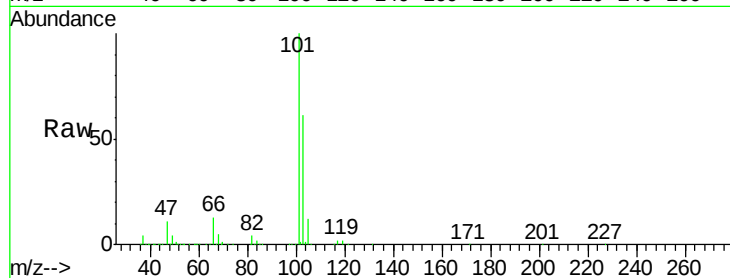
SVE-INF3-040218

Tgt Ion:101 Resp: 998388

Ion Ratio Lower Upper

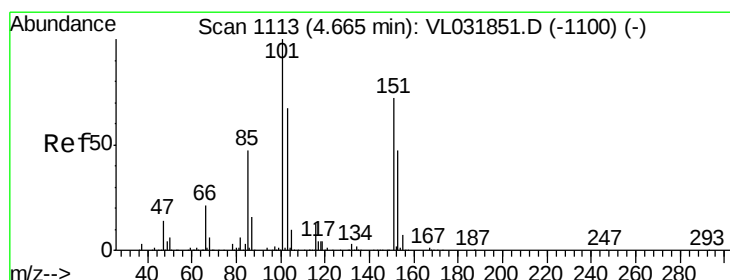
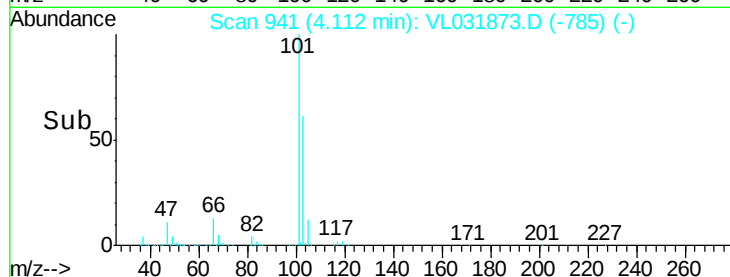
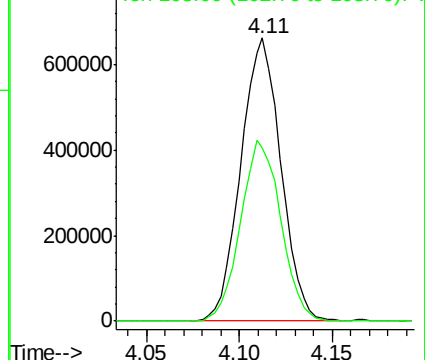
101 100

103 61.0 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.58 ppbv

RT: 4.67 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VL031873.D

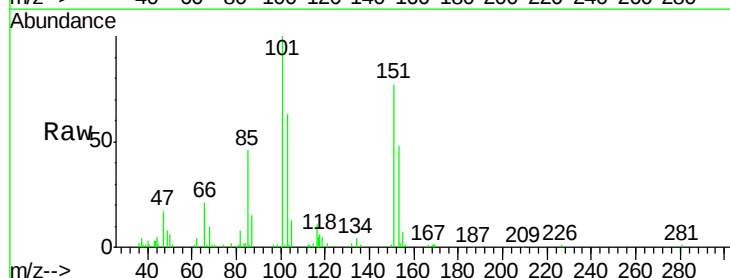
Acq: 12 Apr 2018 20:05

Tgt Ion:101 Resp: 87517

Ion Ratio Lower Upper

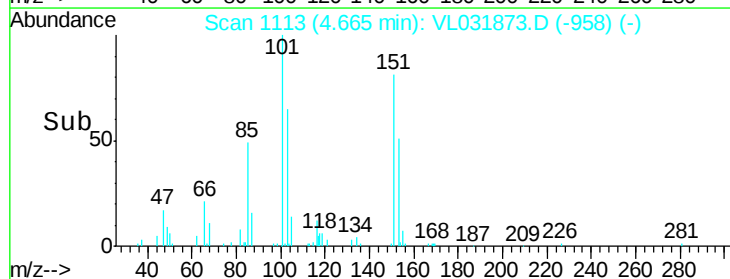
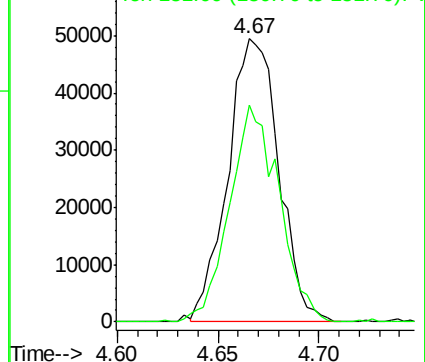
101 100

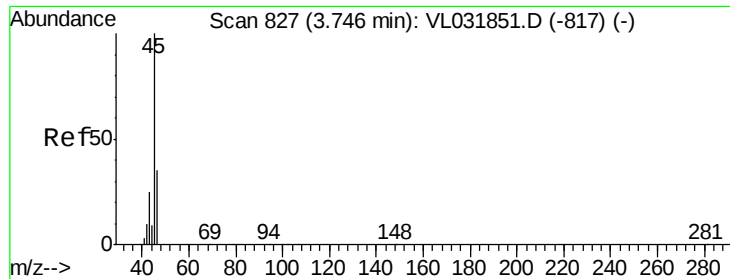
151 74.4 57.0 85.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

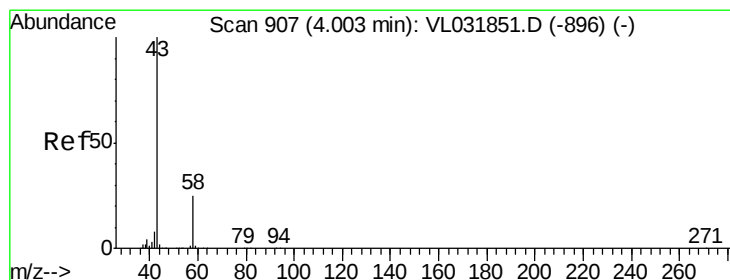
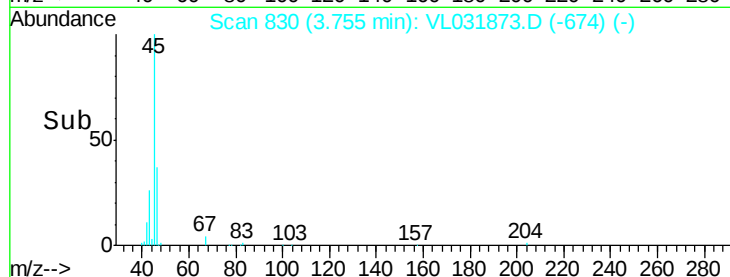
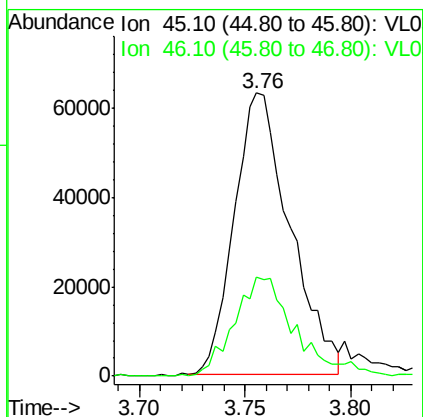
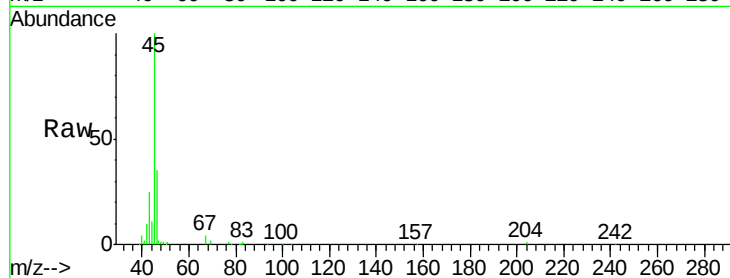




#13
Ethanol
Concen: 7.36 ppbv
RT: 3.76 min Scan# 830
Delta R.T. 0.00 min
Lab File: VL031873.D
Acq: 12 Apr 2018 20:05

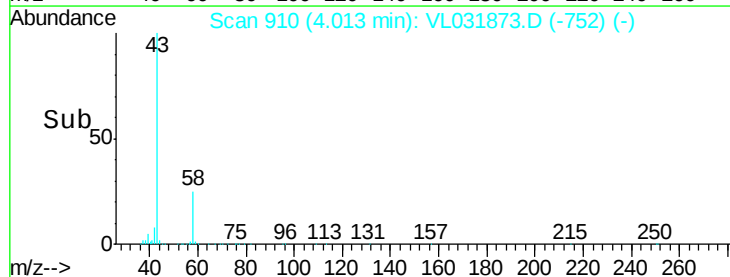
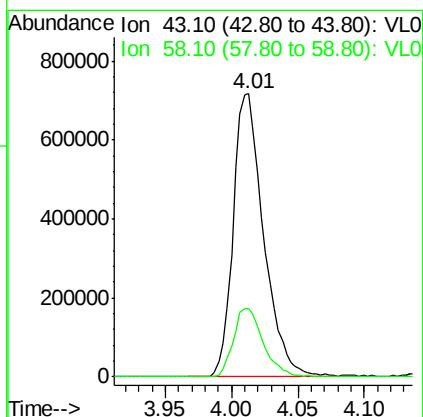
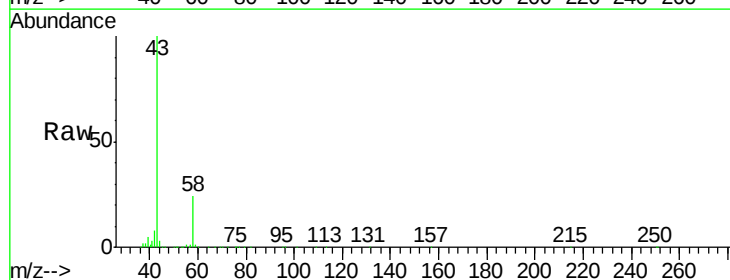
Instrument :
MSVOA_L
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SVE-INF3-040218

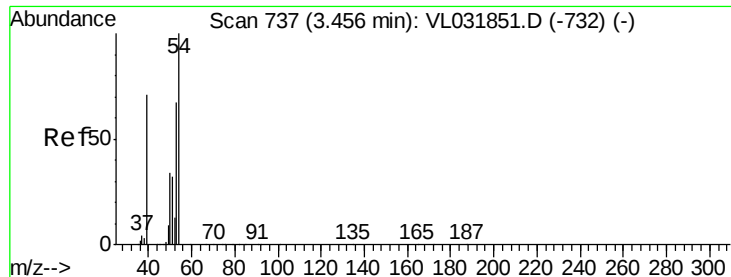
Tgt Ion: 45 Resp: 115284
Ion Ratio Lower Upper
45 100
46 39.3 14.6 58.6



#15
Acetone
Concen: 6.48 ppbv
RT: 4.01 min Scan# 910
Delta R.T. 0.01 min
Lab File: VL031873.D
Acq: 12 Apr 2018 20:05

Tgt Ion: 43 Resp: 1144384
Ion Ratio Lower Upper
43 100
58 24.1 20.9 31.3

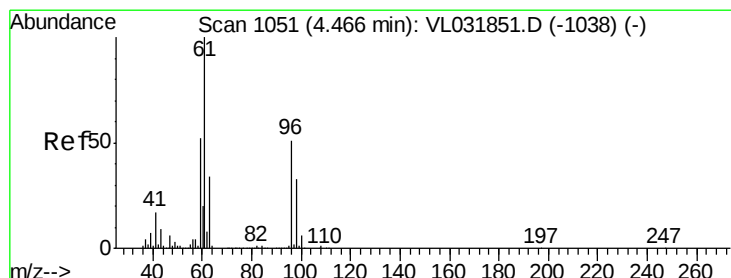
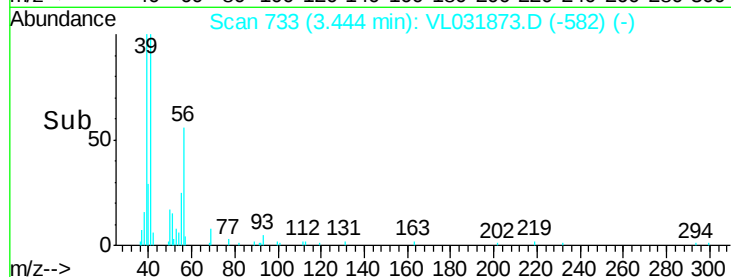
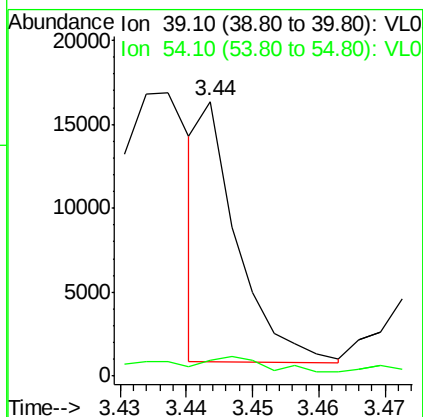
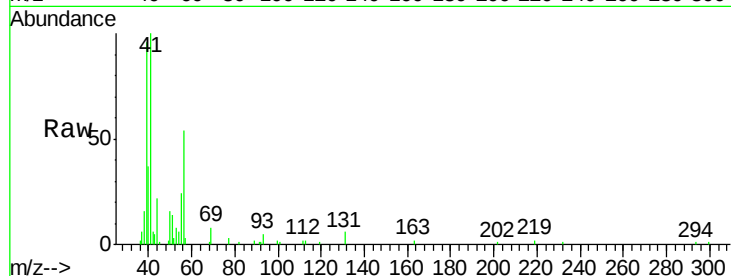




#16
 1,3-Butadiene
 Concen: 0.09 ppbv
 RT: 3.44 min Scan# 733
 Delta R.T. -0.01 min
 Lab File: VL031873.D
 Acq: 12 Apr 2018 20:05

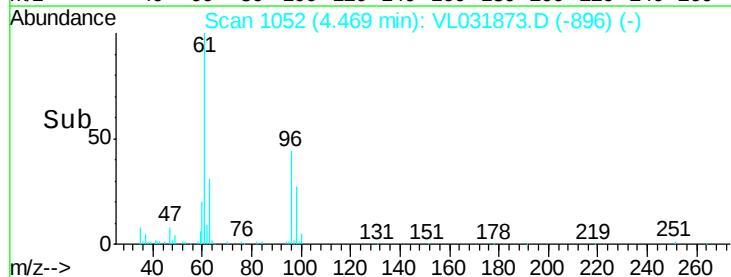
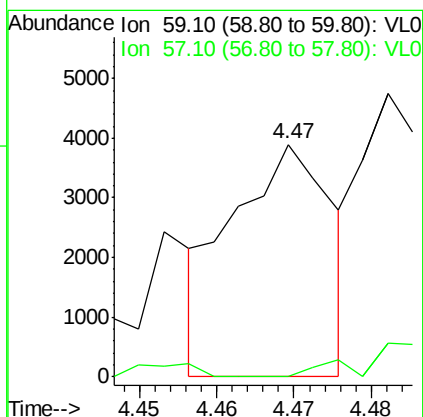
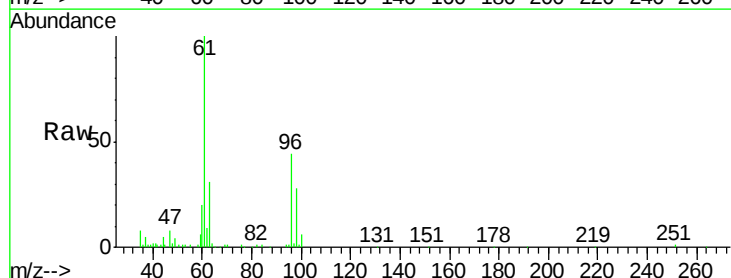
Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-INF3-040218

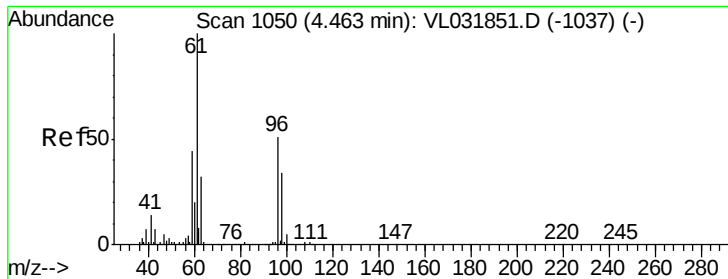
Tgt Ion: 39 Resp: 6077
 Ion Ratio Lower Upper
 39 100
 54 29.3 63.3 94.9#



#17
 tert-Butyl alcohol
 Concen: 0.05 ppbv
 RT: 4.47 min Scan# 1052
 Delta R.T. 0.00 min
 Lab File: VL031873.D
 Acq: 12 Apr 2018 20:05

Tgt Ion: 59 Resp: 3510
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

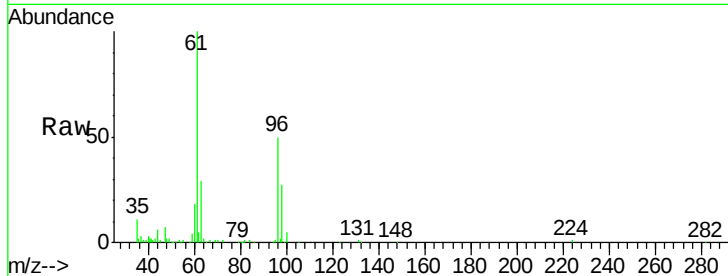




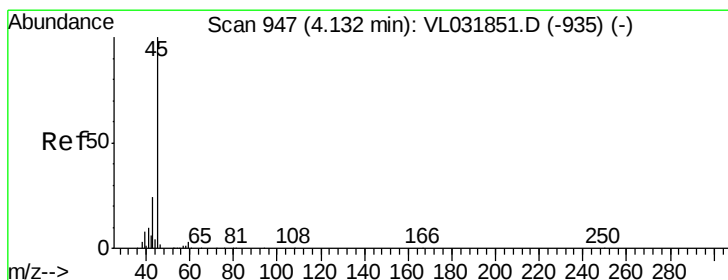
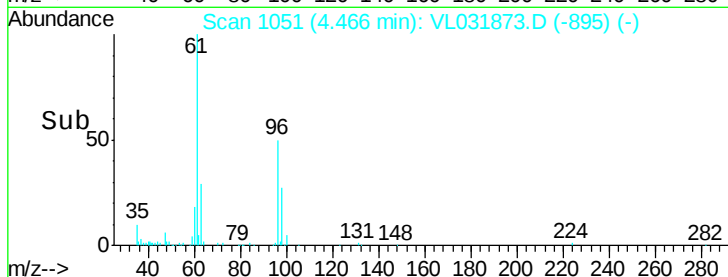
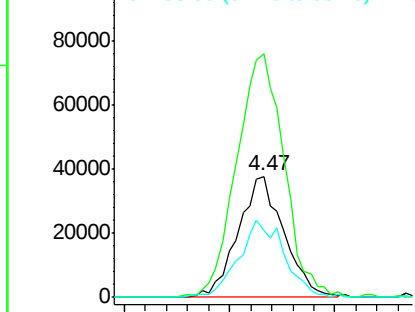
#18
 1,1-Dichloroethene
 Concen: 0.87 ppbv
 RT: 4.47 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VL031873.D
 Acq: 12 Apr 2018 20:05

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-INF3-040218

Tgt Ion: 96 Resp: 56513
 Ion Ratio Lower Upper
 96 100
 61 199.1 161.0 241.6
 98 54.2 52.7 79.1

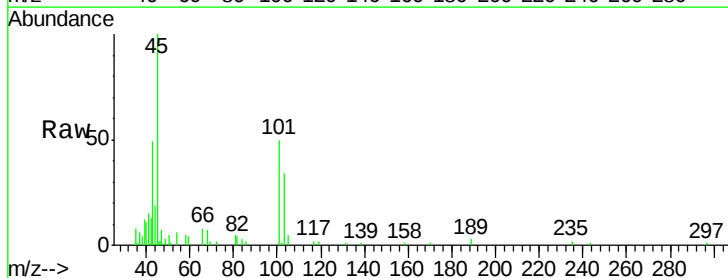


Abundance Ion 96.00 (95.70 to 96.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0
 Ion 98.00 (97.70 to 98.70): VL0

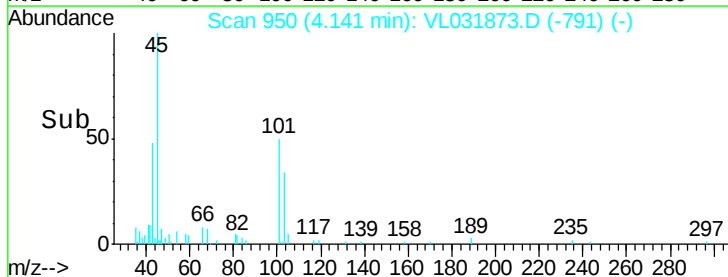
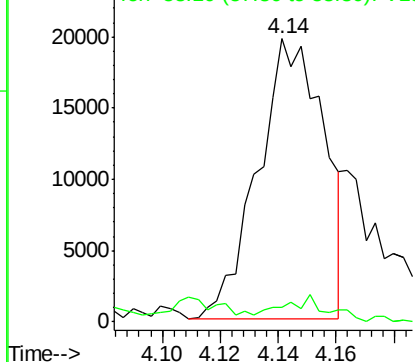


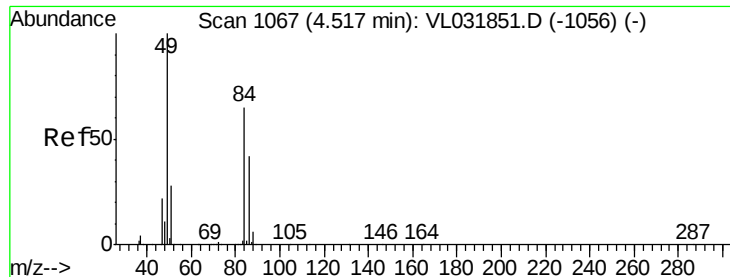
#19
 Isopropyl Alcohol
 Concen: 0.32 ppbv
 RT: 4.14 min Scan# 950
 Delta R.T. 0.01 min
 Lab File: VL031873.D
 Acq: 12 Apr 2018 20:05

Tgt Ion: 45 Resp: 31197
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0

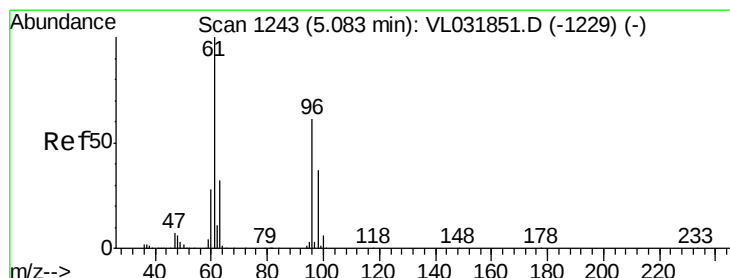
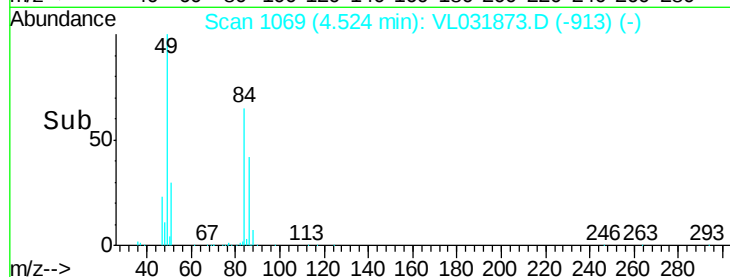
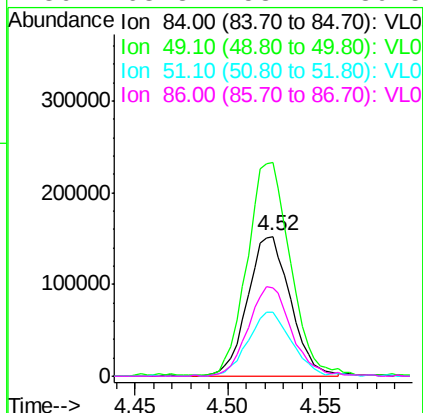
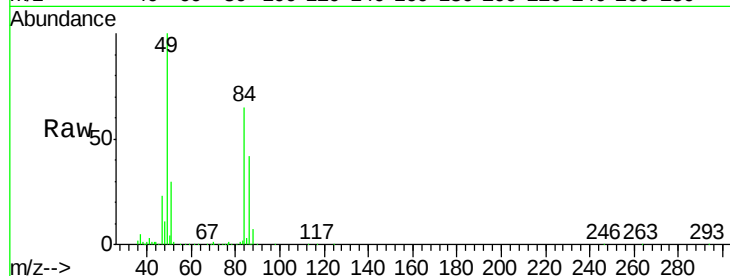




#20
Methylene Chloride
Concen: 3.81 ppbv
RT: 4.52 min Scan# 1069
Delta R.T. 0.00 min
Lab File: VL031873.D
Acq: 12 Apr 2018 20:05

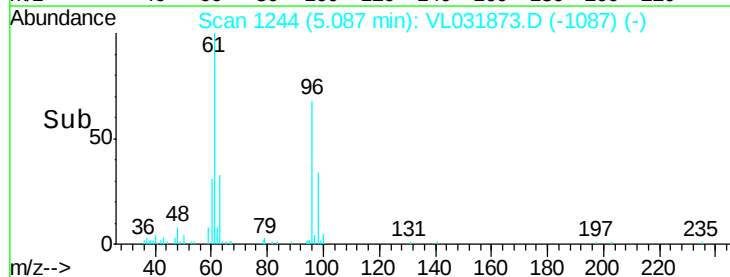
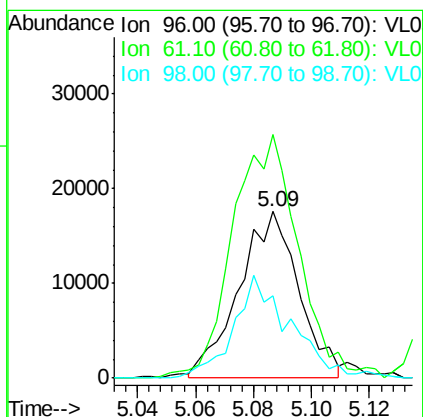
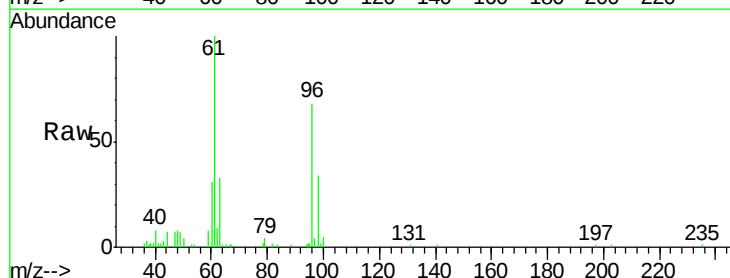
Instrument :
MSVOA_L
ClientSampleId :
SVE-INF3-040218

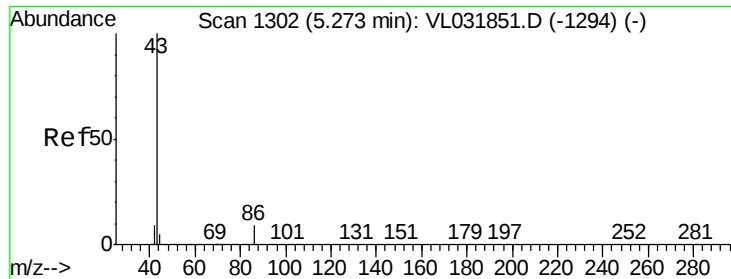
Tgt Ion:	84	Resp:	245263
Ion	Ratio	Lower	Upper
84	100		
49	152.1	125.6	188.4
51	45.4	36.4	54.6
86	63.3	53.7	80.5



#22
trans-1,2-Dichloroethene
Concen: 0.38 ppbv
RT: 5.09 min Scan# 1244
Delta R.T. 0.01 min
Lab File: VL031873.D
Acq: 12 Apr 2018 20:05

Tgt Ion:	96	Resp:	25200
Ion	Ratio	Lower	Upper
96	100		
61	145.2	131.1	196.7
98	47.0	47.6	71.4#





#23

Vinyl Acetate

Concen: 0.07 ppbv

RT: 5.27 min Scan# 1302

Delta R.T. -0.00 min

Lab File: VL031873.D

Acq: 12 Apr 2018 20:05

Instrument :

MSVOA_L

ClientSampleId :

SVE-INF3-040218

Tgt Ion: 43 Resp: 11987

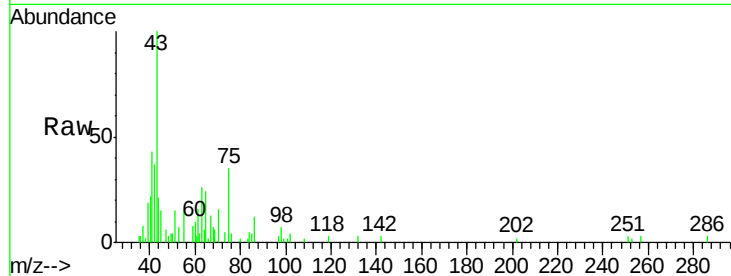
Ion Ratio Lower Upper

43 100

86 18.7 5.8 8.8#

42 25.8 8.5 12.7#

44 6.8 4.2 6.4#

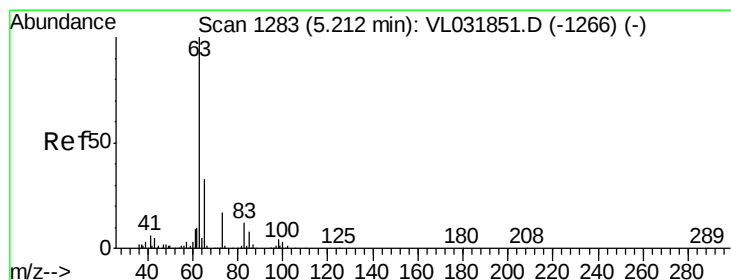
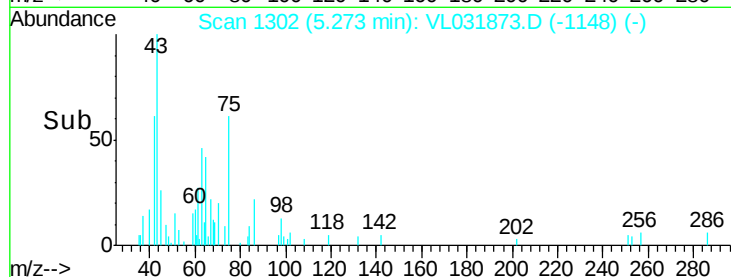
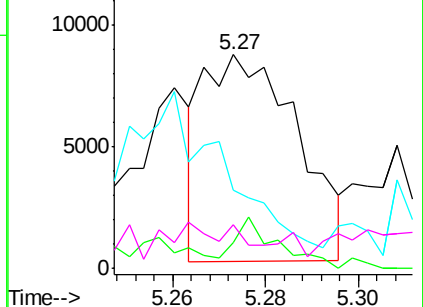


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 14.64 ppbv

RT: 5.21 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VL031873.D

Acq: 12 Apr 2018 20:05

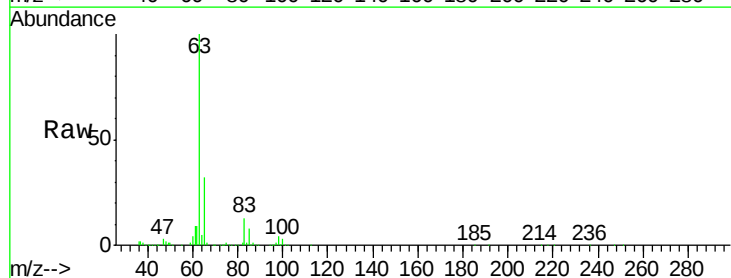
Tgt Ion: 63 Resp: 2610355

Ion Ratio Lower Upper

63 100

98 4.3 2.4 7.2

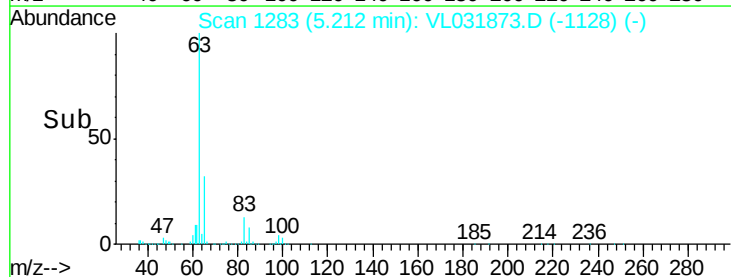
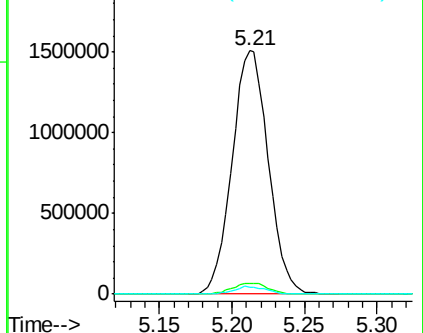
100 2.8 1.5 4.4

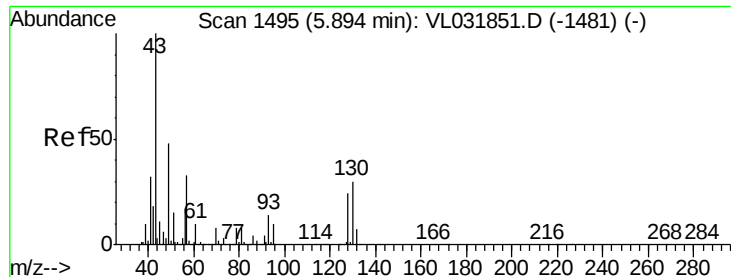


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

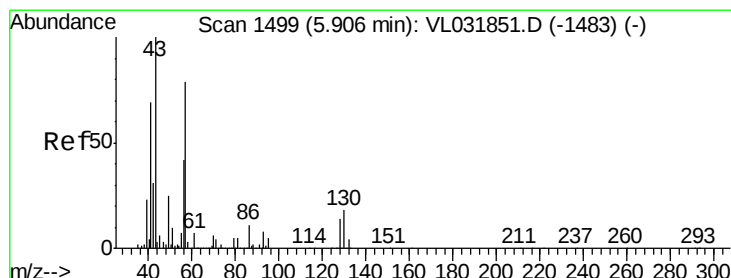
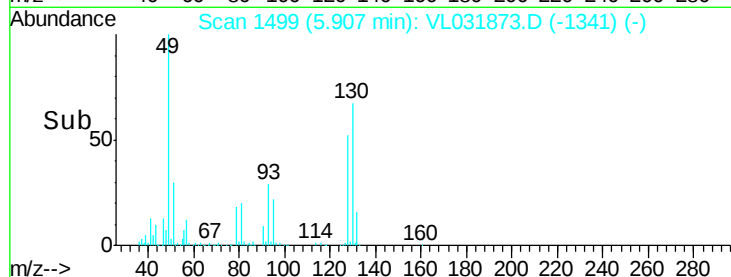
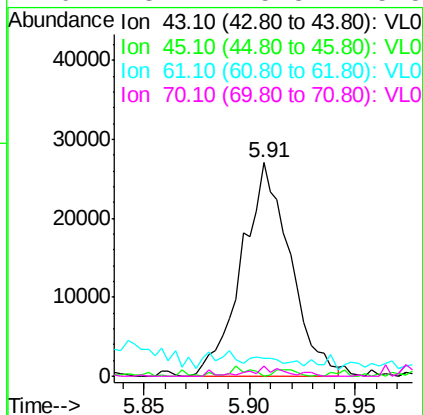
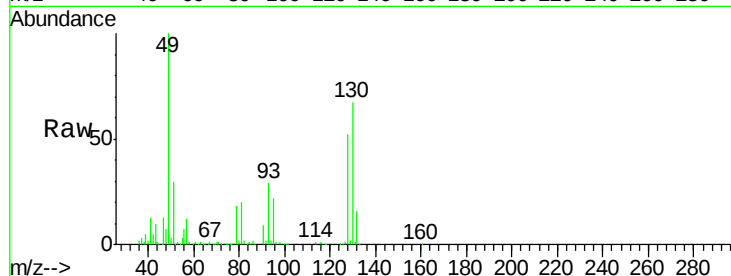




#25
Ethyl Acetate
Concen: 0.16 ppbv
RT: 5.91 min Scan# 1499
Delta R.T. 0.01 min
Lab File: VL031873.D
Acq: 12 Apr 2018 20:05

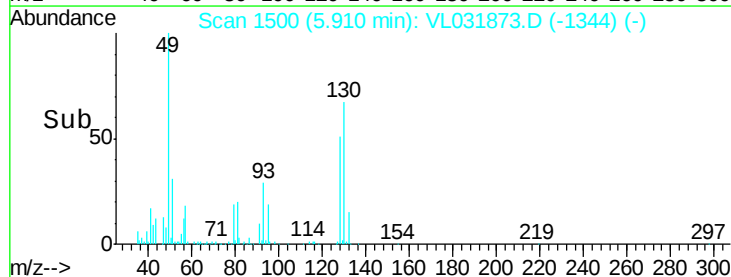
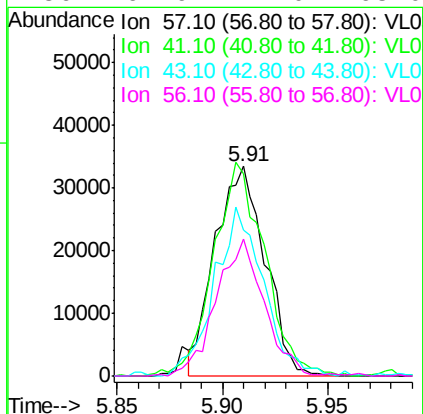
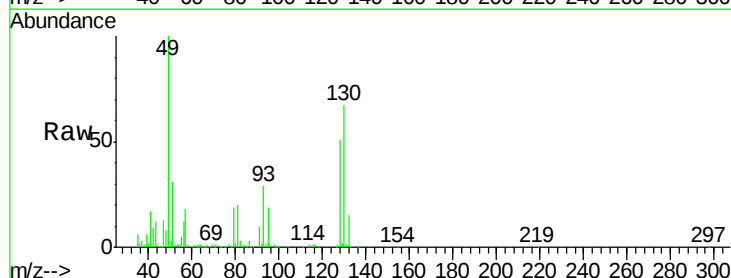
Instrument :
MSVOA_L
ClientSampleId :
SVE-INF3-040218

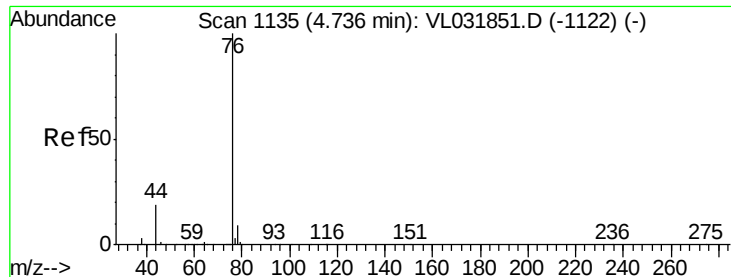
Tgt Ion:	43	Resp:	43024
Ion	Ratio	Lower	Upper
43	100		
45	1.6	7.8	11.8#
61	0.0	7.2	10.8#
70	3.7	5.8	8.8#



#26
Hexane
Concen: 0.43 ppbv
RT: 5.91 min Scan# 1500
Delta R.T. 0.00 min
Lab File: VL031873.D
Acq: 12 Apr 2018 20:05

Tgt Ion:	57	Resp:	55237
Ion	Ratio	Lower	Upper
57	100		
41	104.3	72.0	108.0
43	79.5	169.8	254.8#
56	62.9	42.0	63.0





#27

Carbon Disulfide

Concen: 0.03 ppbv

RT: 4.74 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VL031873.D

Acq: 12 Apr 2018 20:05

Instrument :

MSVOA_L

ClientSampleId :

SVE-INF3-040218

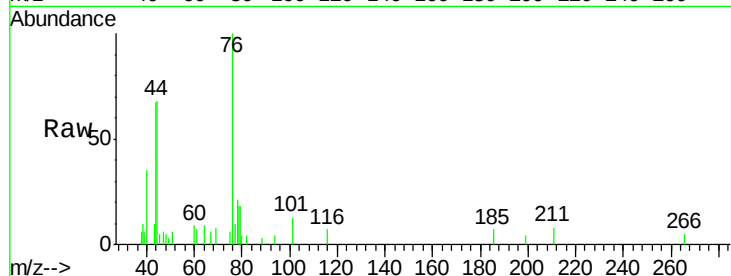
Tgt Ion: 76 Resp: 5284

Ion Ratio Lower Upper

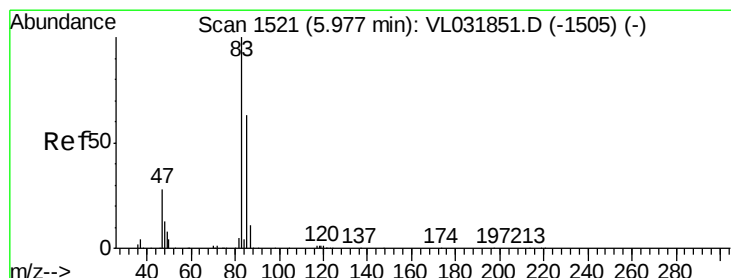
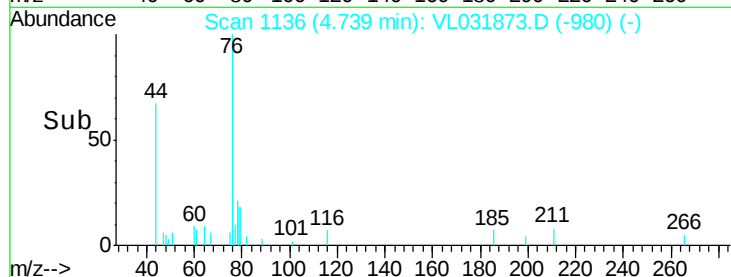
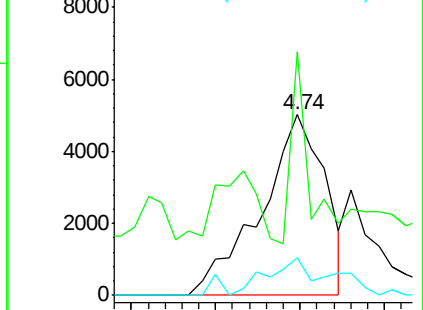
76 100

44 64.9 15.6 23.4#

78 22.7 7.6 11.4#



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



#29

Chloroform

Concen: 0.33 ppbv

RT: 5.97 min Scan# 1520

Delta R.T. -0.01 min

Lab File: VL031873.D

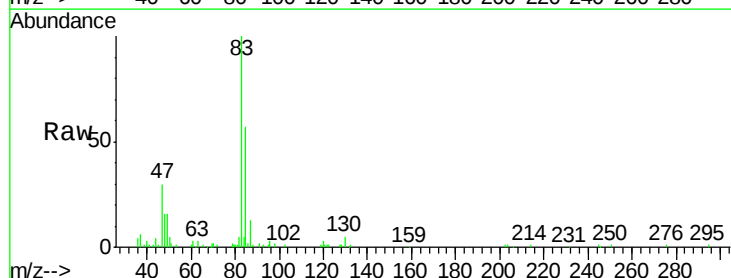
Acq: 12 Apr 2018 20:05

Tgt Ion: 83 Resp: 70960

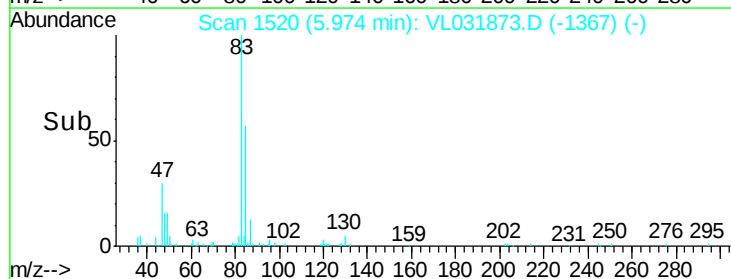
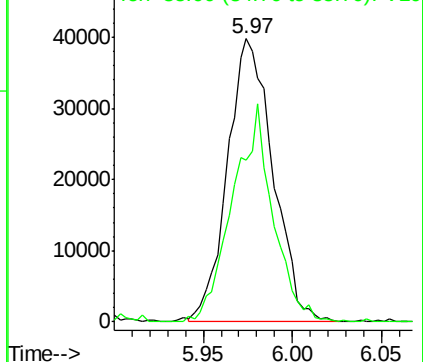
Ion Ratio Lower Upper

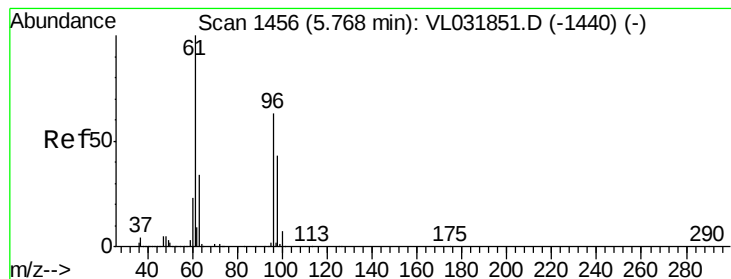
83 100

85 57.1 51.4 77.0



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





#31

cis-1,2-Dichloroethene

Concen: 19.27 ppbv

RT: 5.77 min Scan# 1456

Delta R.T. 0.00 min

Lab File: VL031873.D

Acq: 12 Apr 2018 20:05

Instrument :

MSVOA_L

ClientSampleId :

SVE-INF3-040218

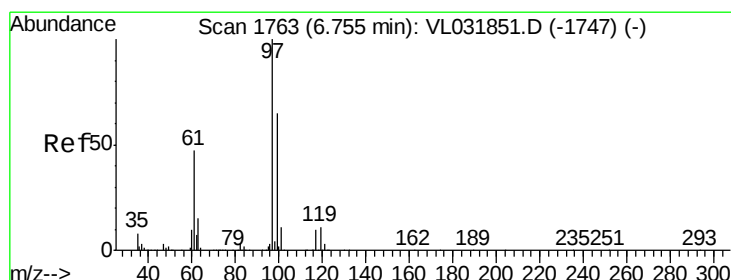
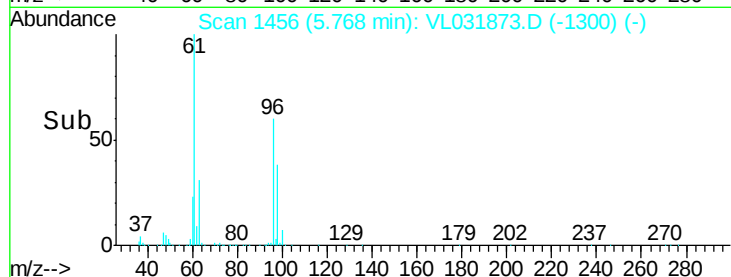
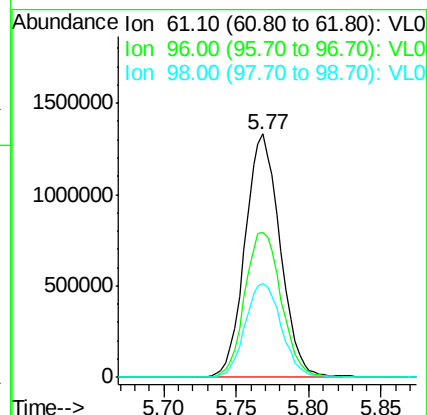
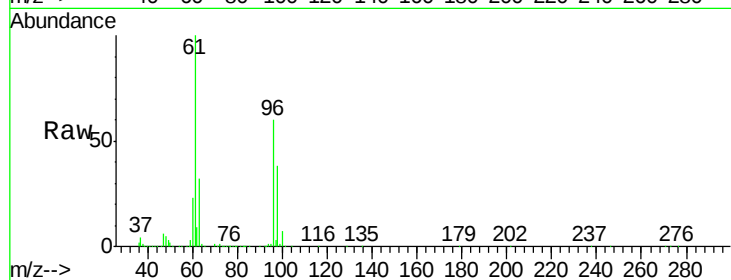
Tgt Ion: 61 Resp: 2241396

Ion Ratio Lower Upper

61 100

96 59.8 47.6 71.4

98 38.4 30.3 45.5



#32

1,1,1-Trichloroethane

Concen: 21.87 ppbv

RT: 6.76 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VL031873.D

Acq: 12 Apr 2018 20:05

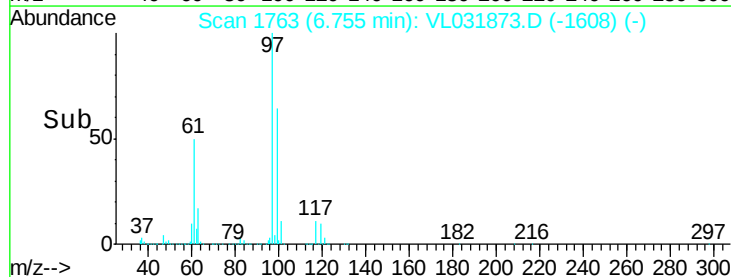
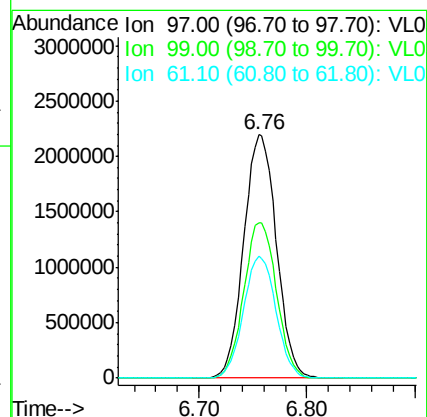
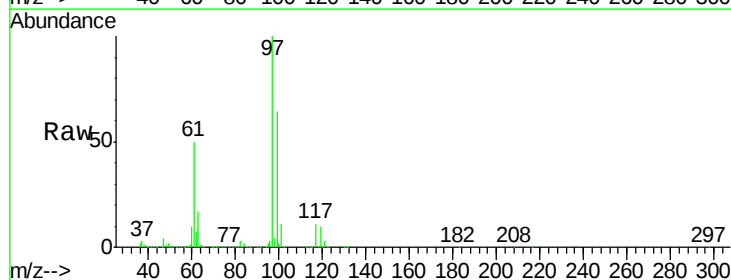
Tgt Ion: 97 Resp: 4634216

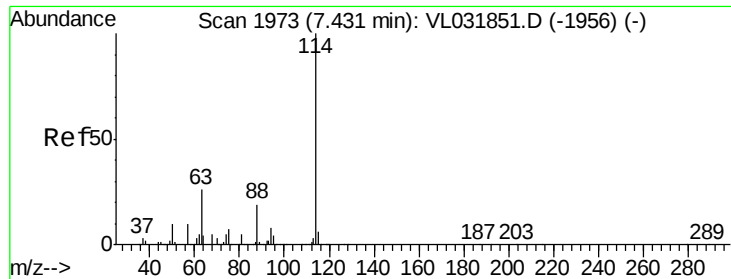
Ion Ratio Lower Upper

97 100

99 64.1 51.5 77.3

61 50.1 40.0 60.0

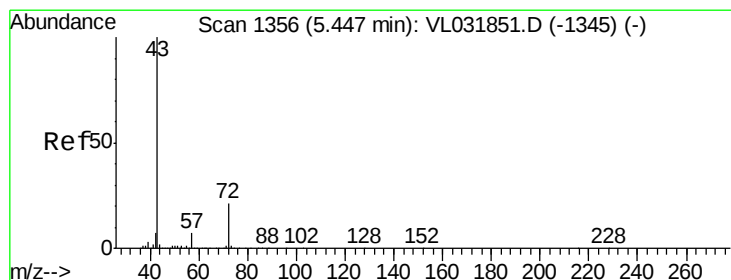
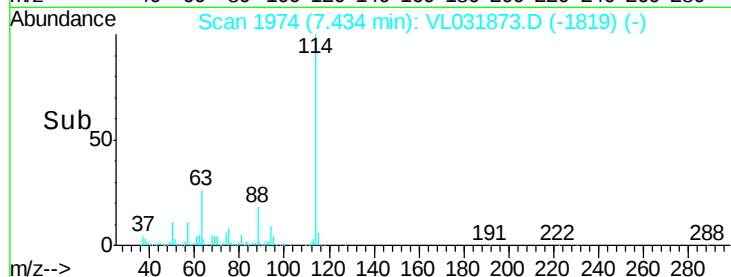
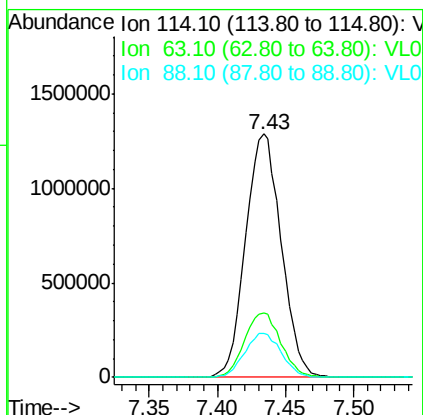
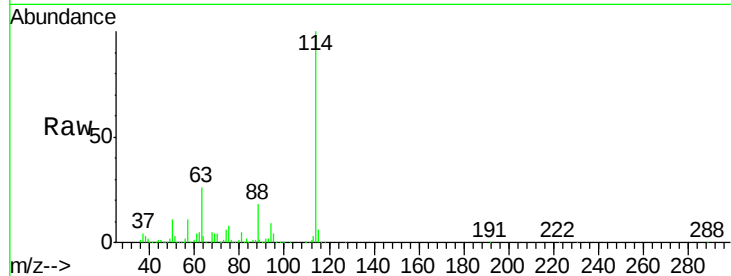




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.43 min Scan# 1974
 Delta R.T. -0.00 min
 Lab File: VL031873.D
 Acq: 12 Apr 2018 20:05

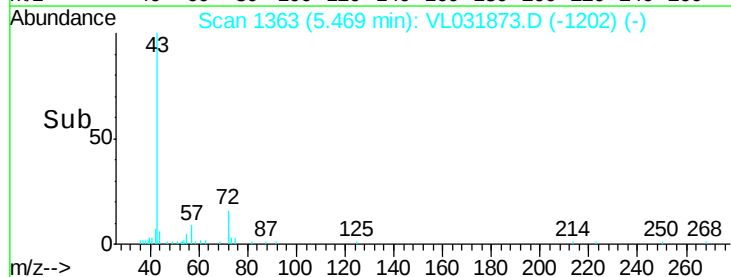
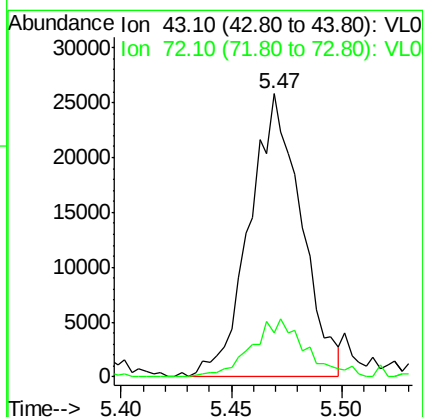
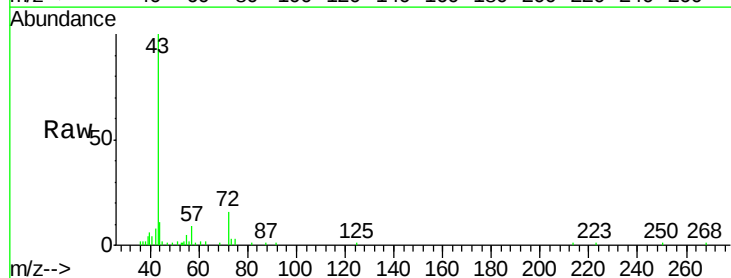
Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-INF3-040218

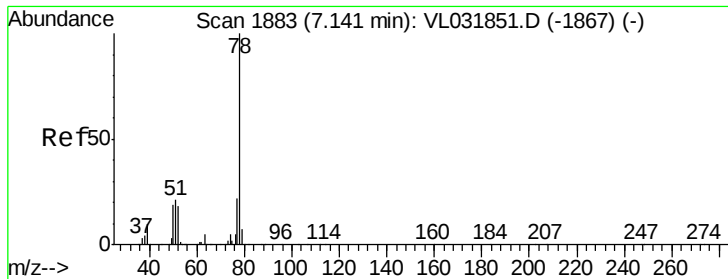
Tgt Ion:114 Resp: 2341474
 Ion Ratio Lower Upper
 114 100
 63 27.1 21.8 32.6
 88 18.5 14.6 22.0



#34
 2-Butanone
 Concen: 0.26 ppbv
 RT: 5.47 min Scan# 1363
 Delta R.T. 0.02 min
 Lab File: VL031873.D
 Acq: 12 Apr 2018 20:05

Tgt Ion: 43 Resp: 42125
 Ion Ratio Lower Upper
 43 100
 72 21.8 18.6 27.8





#36

Benzene

Concen: 0.85 ppbv

RT: 7.14 min Scan# 1884

Delta R.T. -0.00 min

Lab File: VL031873.D

Acq: 12 Apr 2018 20:05

Instrument :

MSVOA_L

ClientSampleId :

SVE-INF3-040218

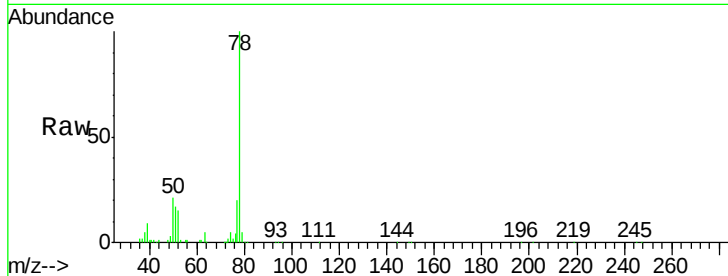
Tgt Ion: 78 Resp: 178557

Ion Ratio Lower Upper

78 100

77 20.0 19.2 28.8

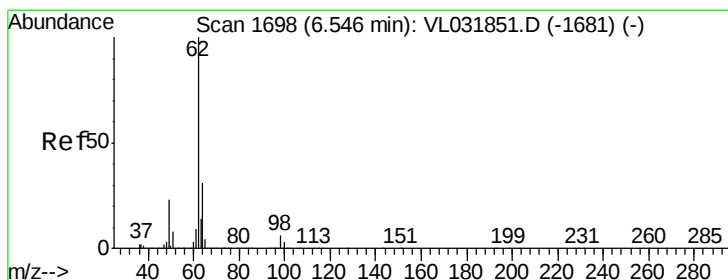
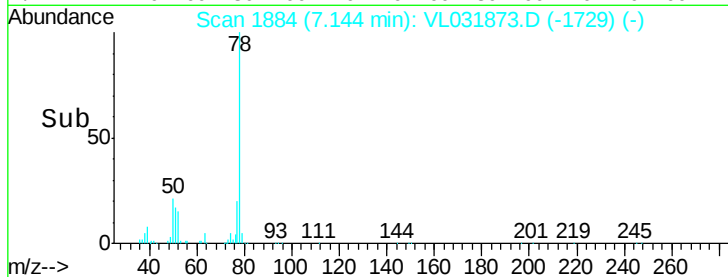
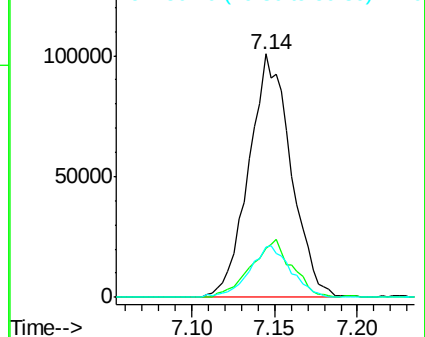
50 20.8 16.7 25.1



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: 0.04 ppbv

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VL031873.D

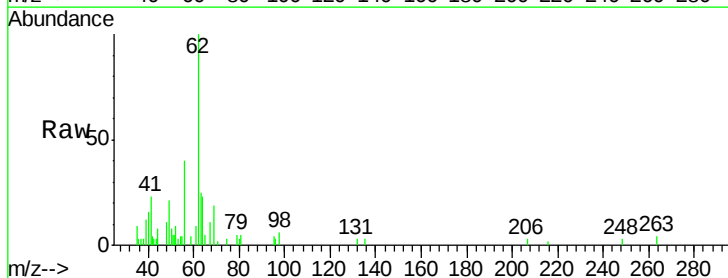
Acq: 12 Apr 2018 20:05

Tgt Ion: 62 Resp: 6271

Ion Ratio Lower Upper

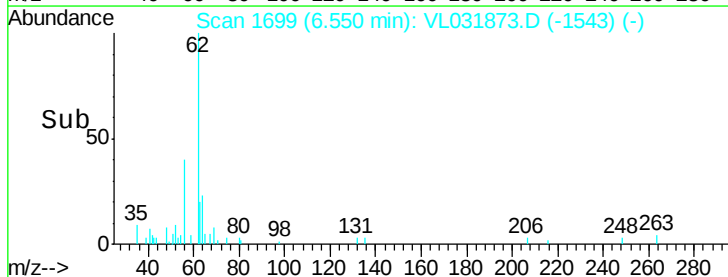
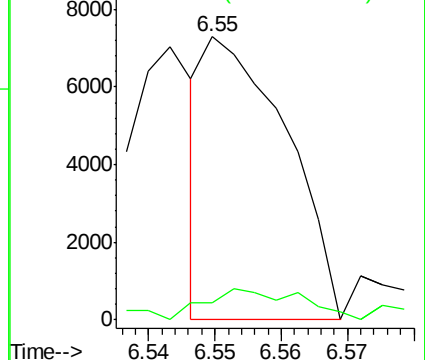
62 100

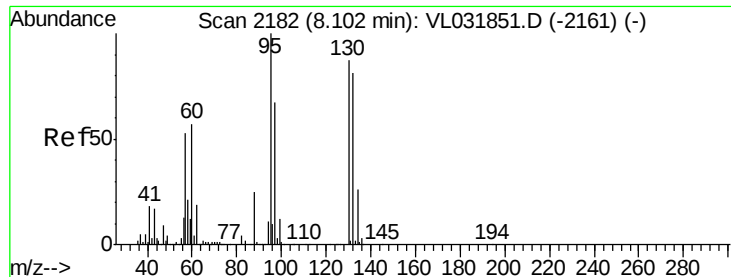
98 0.0 4.0 6.0#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 93.35 ppbv

RT: 8.11 min Scan# 2184

Delta R.T. 0.01 min

Lab File: VL031873.D

Acq: 12 Apr 2018 20:05

Instrument :

MSVOA_L

ClientSampleId :

SVE-INF3-040218

Tgt Ion:130 Resp: 7980365

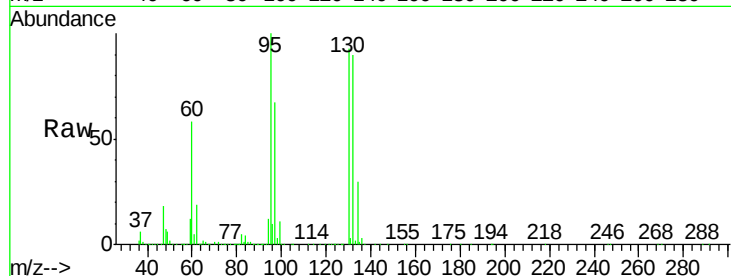
Ion Ratio Lower Upper

130 100

95 107.8 96.6 144.8

132 96.7 79.1 118.7

97 72.6 61.5 92.3

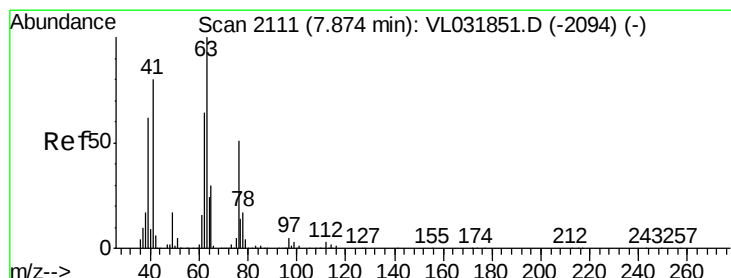
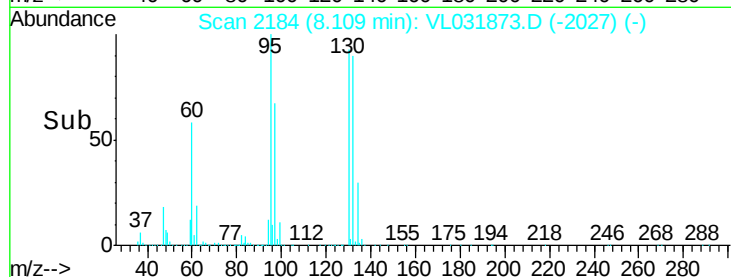
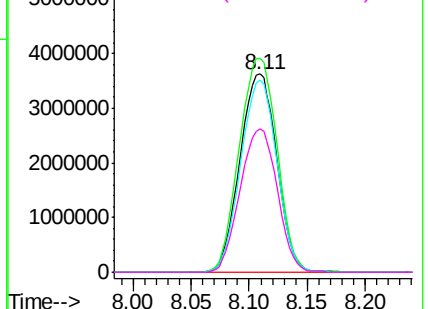


Abundance Ion 130.00 (129.70 to 130.70): V

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: 0.22 ppbv

RT: 8.10 min Scan# 2181

Delta R.T. 0.22 min

Lab File: VL031873.D

Acq: 12 Apr 2018 20:05

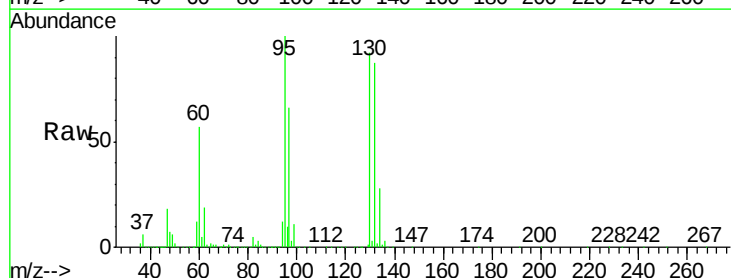
Tgt Ion: 63 Resp: 17356

Ion Ratio Lower Upper

63 100

41 13.7 65.8 98.6#

62 3797.2 55.0 82.6#



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

