

Data File : VL033575.D
Acq On : 10 Apr 2019 22:18
Operator : SY/AP
Sample : K2312-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
A-6

Quant Time: Apr 11 03:47:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	868434	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2074079	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2052475	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 1618489 10.06 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 100.60%

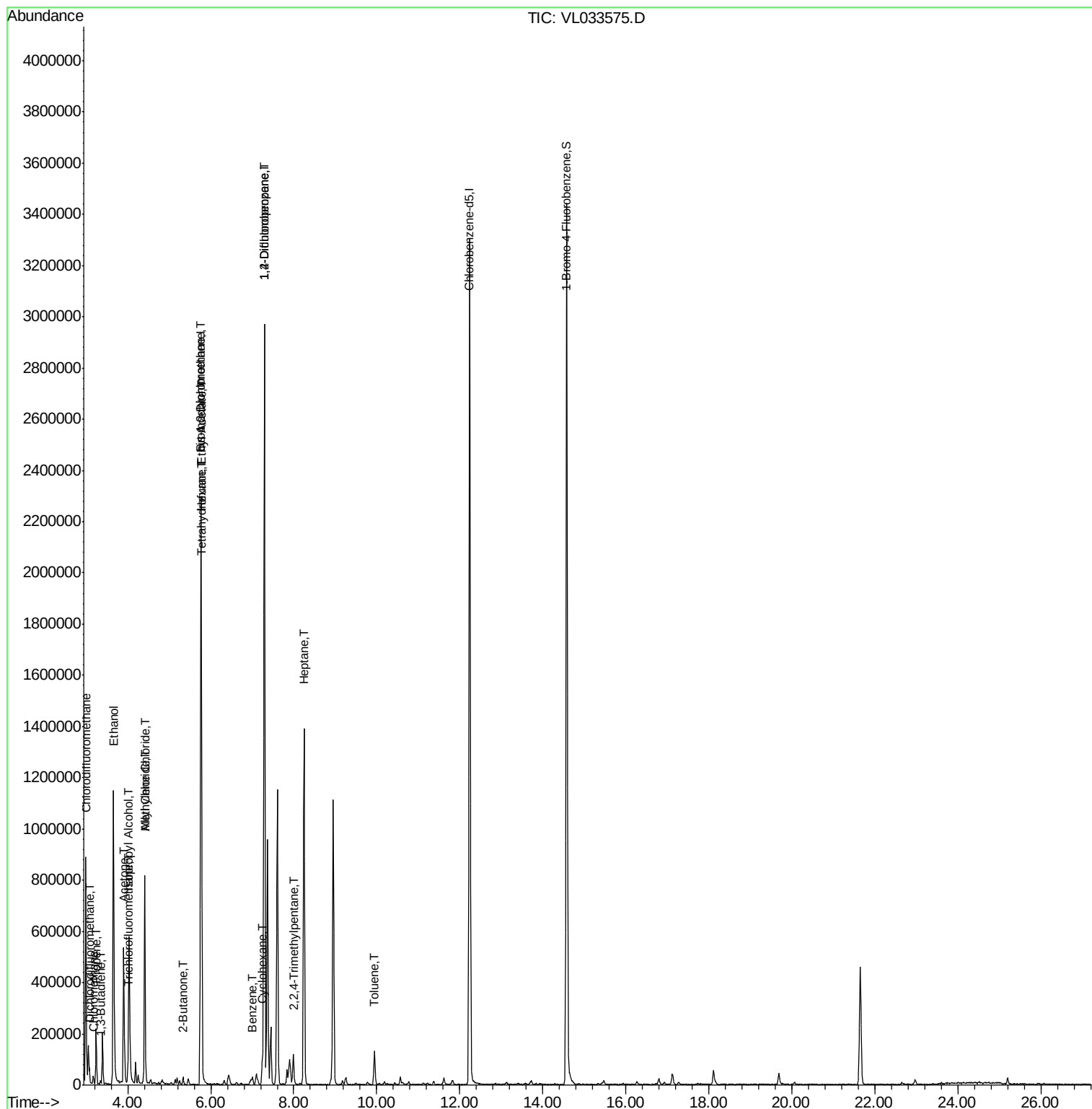
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	40278	0.318	ppbv	90
3) Chlorodifluoromethane	2.99	51	544333	5.444	ppbv #	60
4) Chloromethane	3.17	50	24471	0.463	ppbv	98
9) Propene	3.24	41	47536	1.132	ppbv	92
10) Heptane	8.25	43	603248	5.375	ppbv	100
11) Trichlorofluoromethane	4.00	101	30681	0.197	ppbv	99
13) Ethanol	3.65	45	1263322	116.274	ppbv	65
15) Acetone	3.90	43	522346	5.002	ppbv	97
16) 1,3-Butadiene	3.35	39	2435	0.059	ppbv #	27
19) Isopropyl Alcohol	4.03	45	664393	10.059	ppbv #	98
20) Methylene Chloride	4.41	84	282652	6.377	ppbv	94
21) Allyl Chloride	4.41	41	6450	0.098	ppbv #	43
25) Ethyl Acetate	5.78	43	293512	1.515	ppbv #	84
26) Hexane	5.78	57	337637	3.920	ppbv #	46
30) Cyclohexane	7.25	84	32030	0.470	ppbv	87
31) cis-1,2-Dichloroethene	5.77	61	7980	0.093	ppbv #	43
34) 2-Butanone	5.34	43	30233	0.243	ppbv	95
36) Benzene	7.00	78	8978	0.052	ppbv	94
39) 1,2-Dichloropropane	7.29	63	545827	8.007	ppbv #	23
41) Tetrahydrofuran	5.78	42	57578	0.840	ppbv #	39
44) 2,2,4-Trimethylpentane	7.99	57	19802	0.065	ppbv #	1
53) Toluene	9.95	91	83199	0.411	ppbv	97

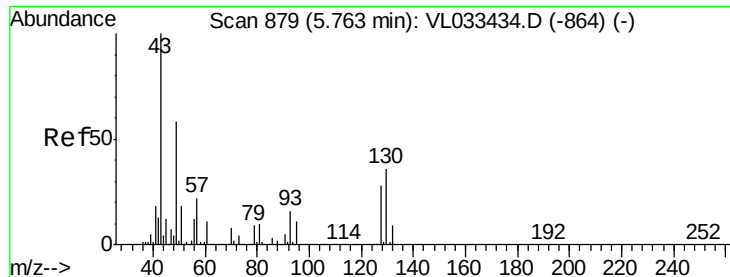
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033575.D

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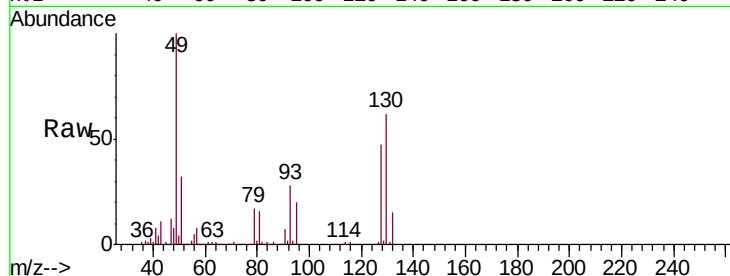
Tgt Ion: 49 Resp: 868434

Ion Ratio Lower Upper

49 100

128 49.0 24.0 72.0

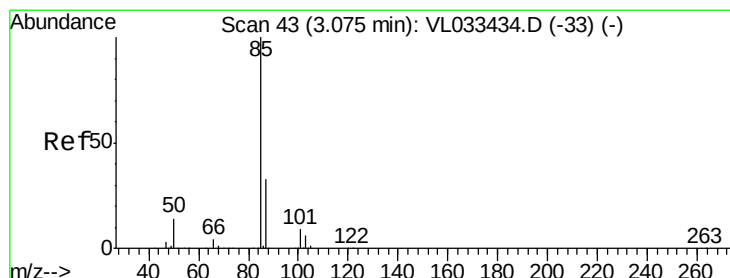
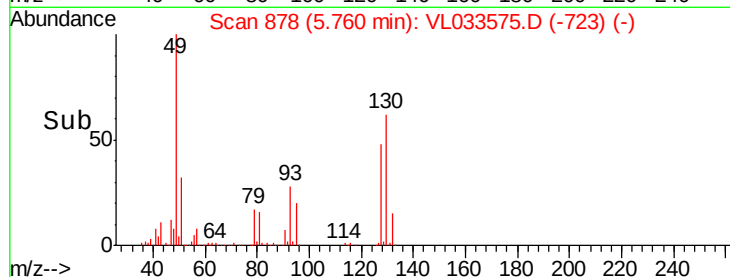
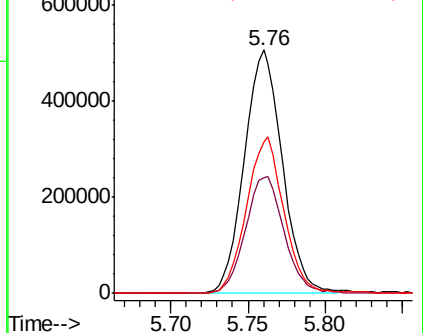
130 63.6 31.2 93.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.318 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033575.D

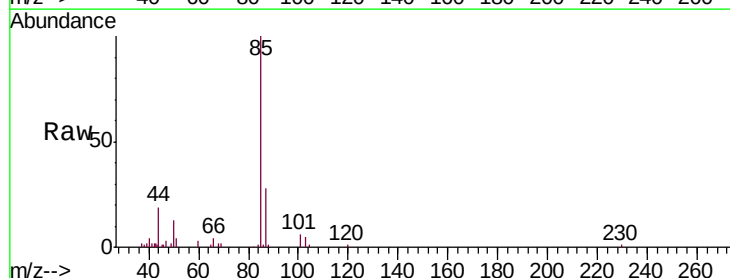
Acq: 10 Apr 2019 22:18

Tgt Ion: 85 Resp: 40278

Ion Ratio Lower Upper

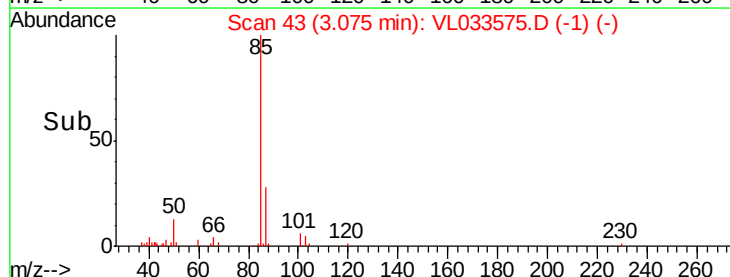
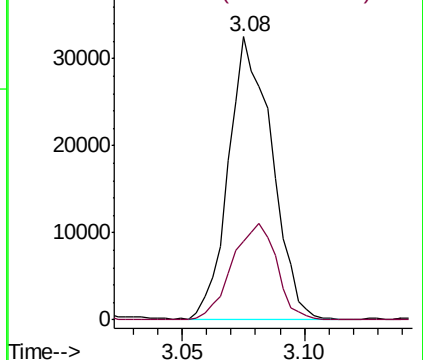
85 100

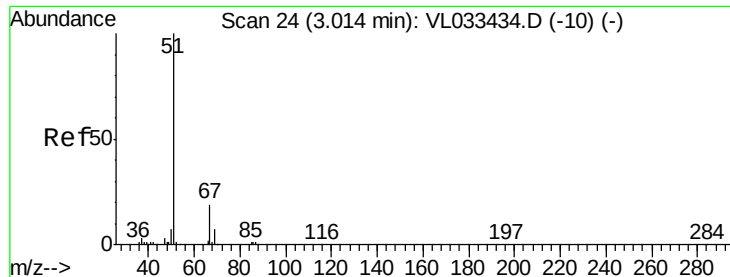
87 27.7 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

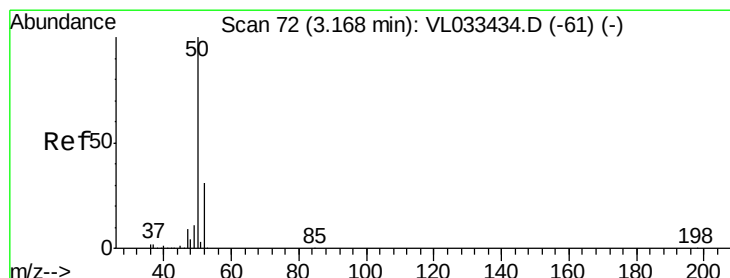
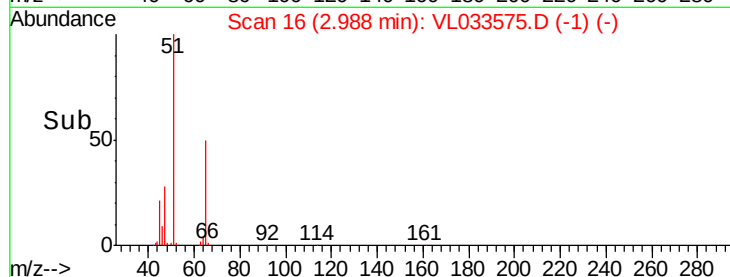
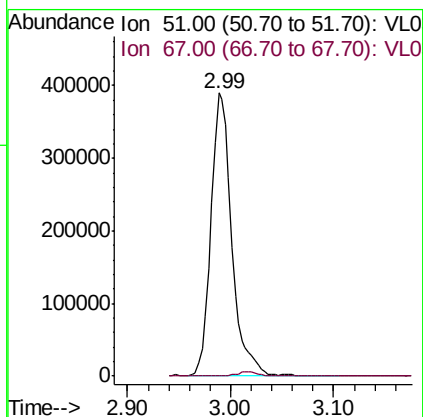
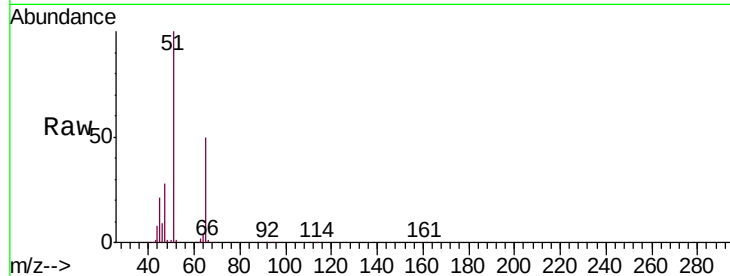




#3
 Chlorodifluoromethane
 Concen: 5.444 ppbv
 RT: 2.99 min Scan# 16
 Delta R.T. -0.03 min
 Lab File: VL033575.D
 Acq: 10 Apr 2019 22:18

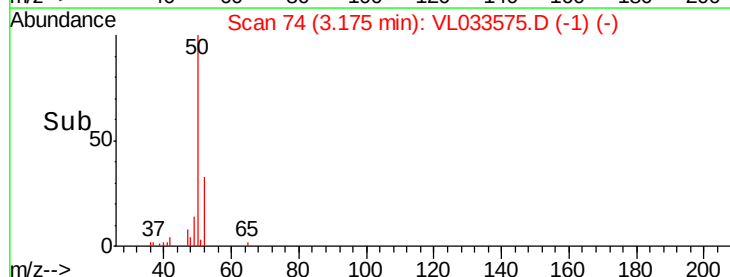
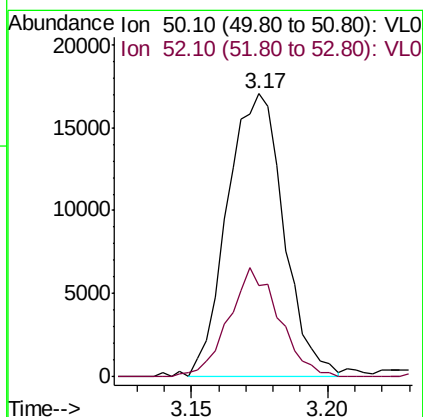
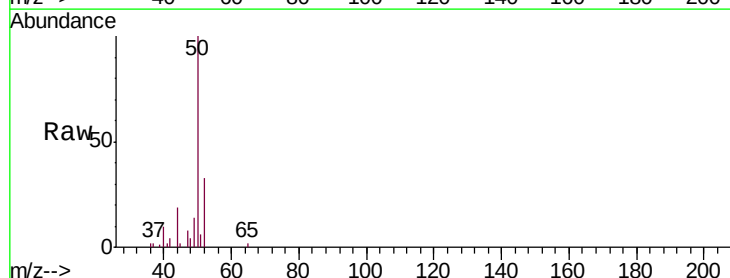
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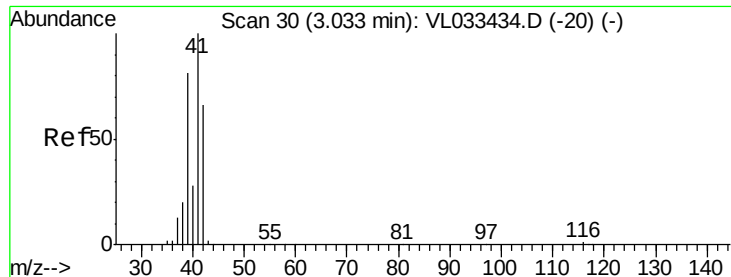
Tgt Ion: 51 Resp: 544333
 Ion Ratio Lower Upper
 51 100
 67 1.4 15.7 23.5#



#4
 Chloromethane
 Concen: 0.463 ppbv
 RT: 3.17 min Scan# 74
 Delta R.T. 0.01 min
 Lab File: VL033575.D
 Acq: 10 Apr 2019 22:18

Tgt Ion: 50 Resp: 24471
 Ion Ratio Lower Upper
 50 100
 52 32.5 25.0 37.6





#9

Propene

Concen: 1.132 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.20 min

Lab File: VL033575.D

Acq: 10 Apr 2019 22:18

Instrument :

MSVOA_L

ClientSampleId :

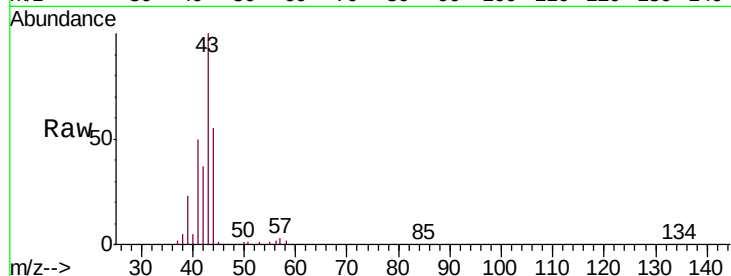
A-6

Tgt Ion: 41 Resp: 47536

Ion Ratio Lower Upper

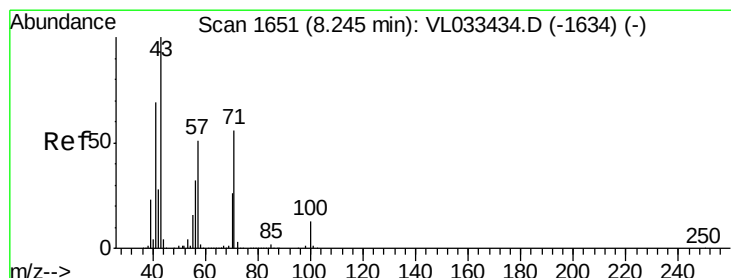
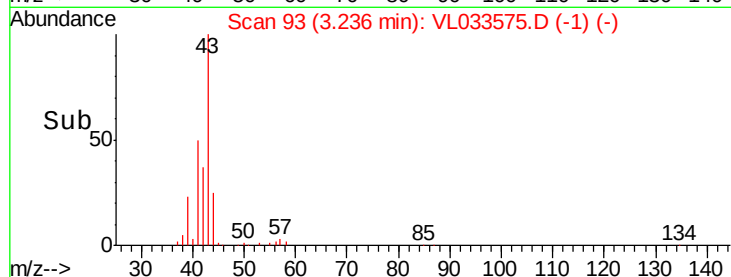
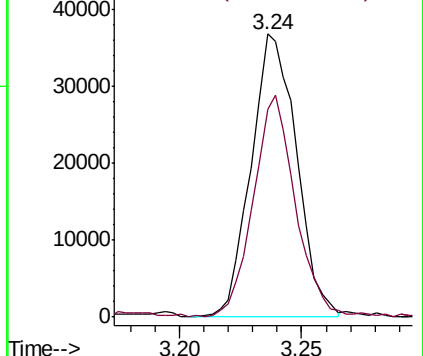
41 100

42 73.4 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 5.375 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033575.D

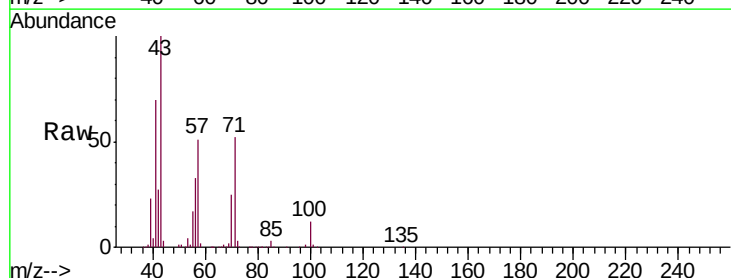
Acq: 10 Apr 2019 22:18

Tgt Ion: 43 Resp: 603248

Ion Ratio Lower Upper

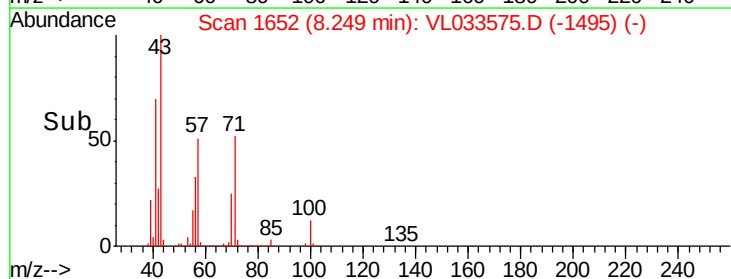
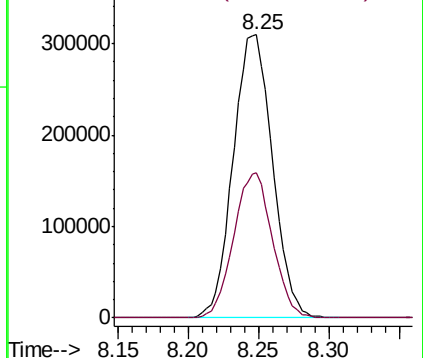
43 100

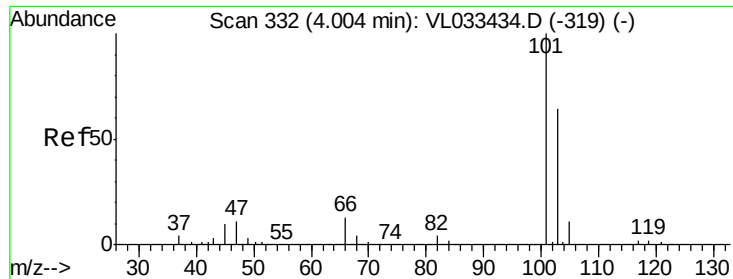
57 50.7 40.6 60.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

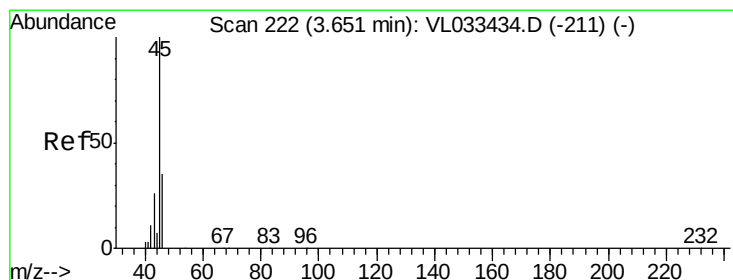
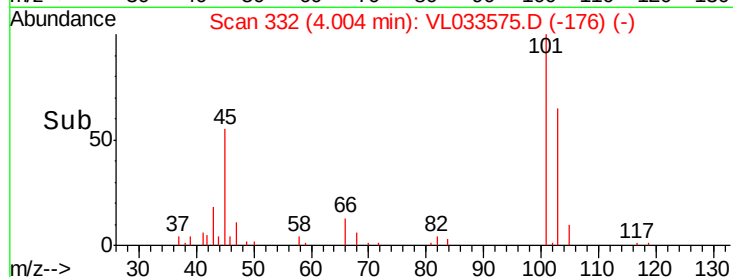
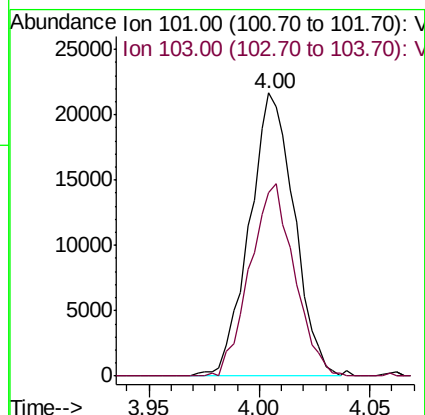
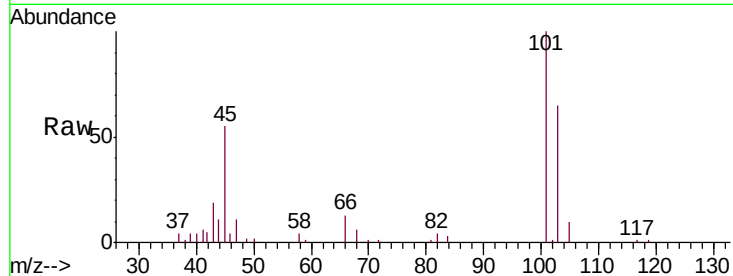




#11
 Trichlorofluoromethane
 Concen: 0.197 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033575.D
 Acq: 10 Apr 2019 22:18

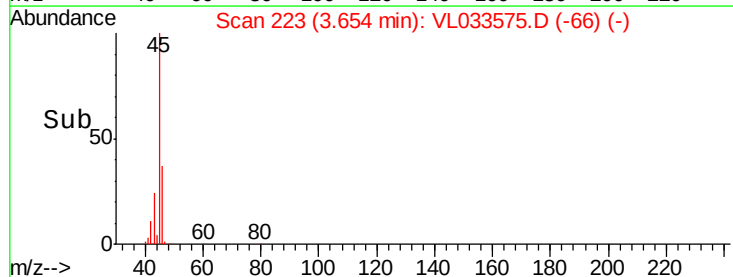
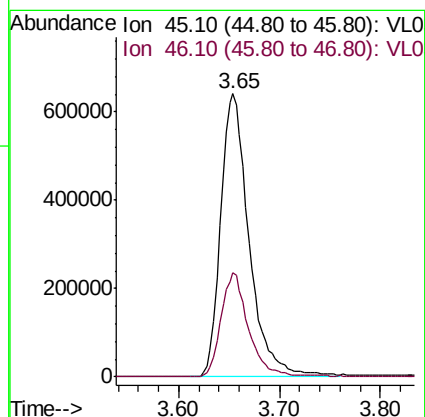
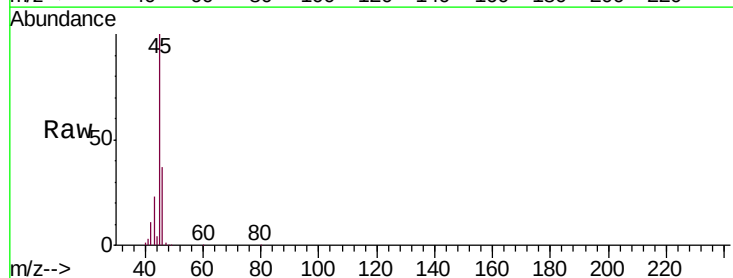
Instrument :
 MSVOA_L
 ClientSampleId :
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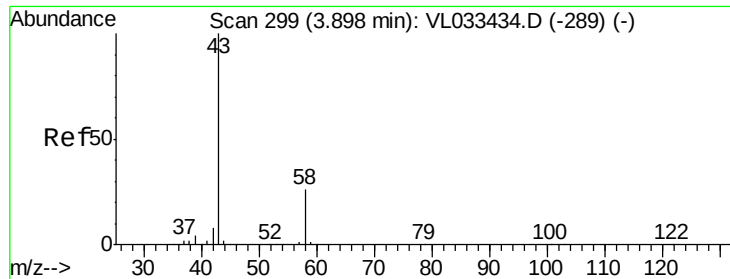
Tgt Ion: 101 Resp: 30681
 Ion Ratio Lower Upper
 101 100
 103 64.8 51.3 76.9



#13
 Ethanol
 Concen: 116.274 ppbv
 RT: 3.65 min Scan# 223
 Delta R.T. 0.00 min
 Lab File: VL033575.D
 Acq: 10 Apr 2019 22:18

Tgt Ion: 45 Resp: 1263322
 Ion Ratio Lower Upper
 45 100
 46 36.0 25.4 101.8





#15

Acetone

Concen: 5.002 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033575.D

Acq: 10 Apr 2019 22:18

Instrument :

MSVOA_L

ClientSampleId :

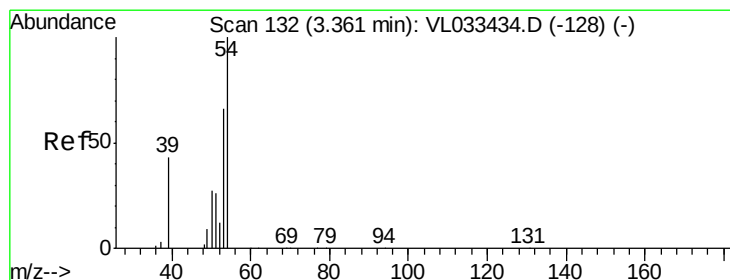
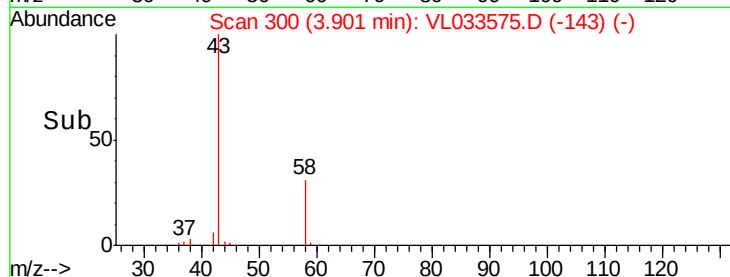
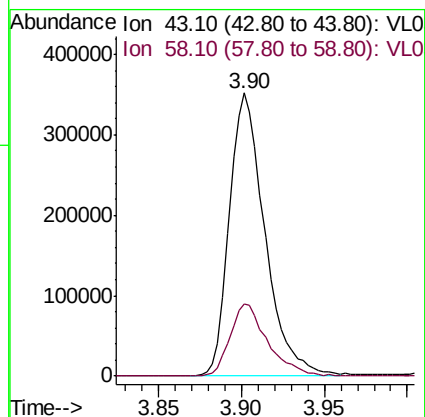
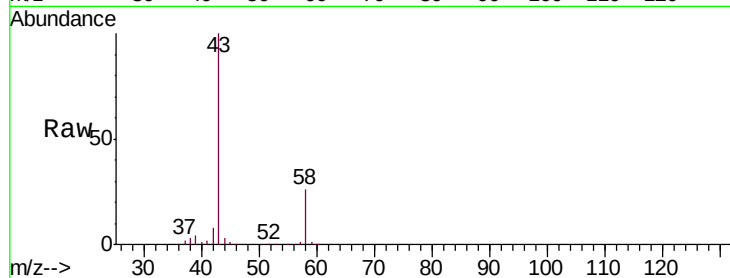
A-6

Tgt Ion: 43 Resp: 522346

Ion Ratio Lower Upper

43 100

58 27.0 20.5 30.7



#16

1,3-Butadiene

Concen: 0.059 ppbv

RT: 3.35 min Scan# 127

Delta R.T. -0.02 min

Lab File: VL033575.D

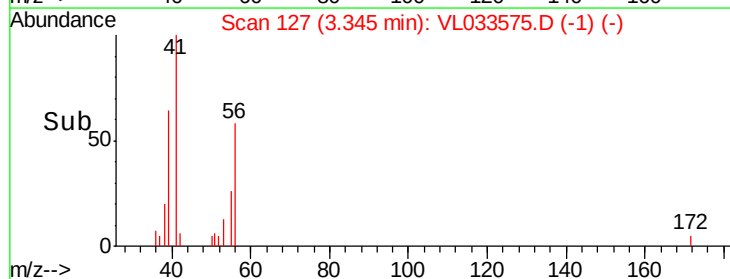
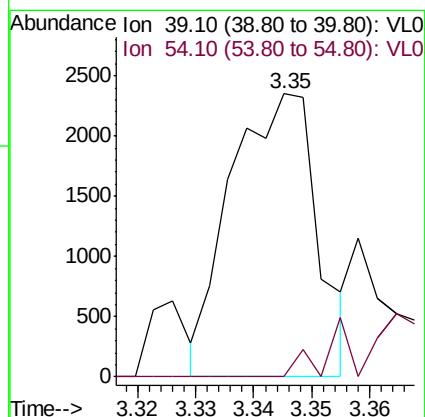
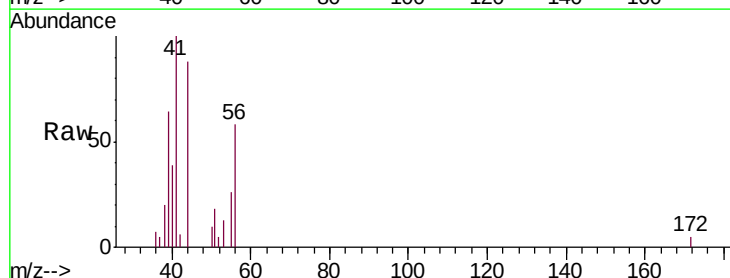
Acq: 10 Apr 2019 22:18

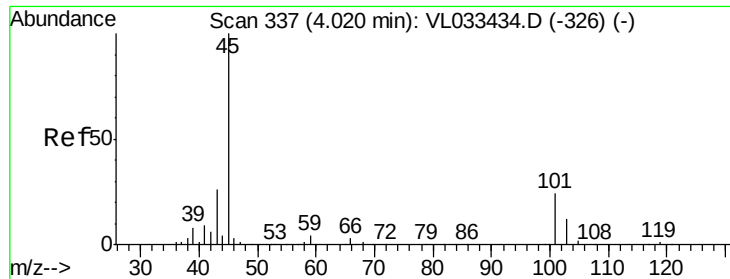
Tgt Ion: 39 Resp: 2435

Ion Ratio Lower Upper

39 100

54 19.2 69.4 104.2#

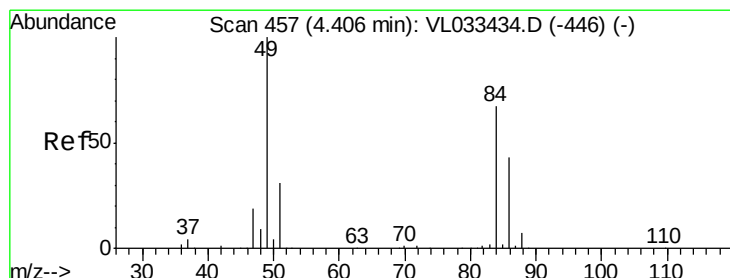
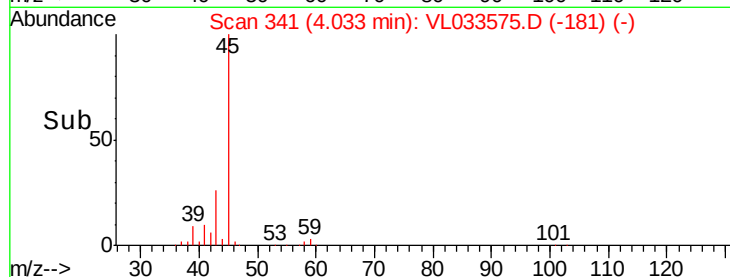
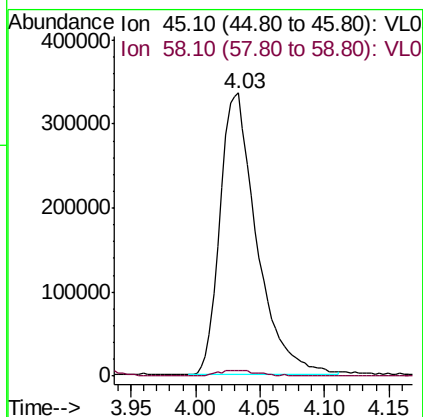
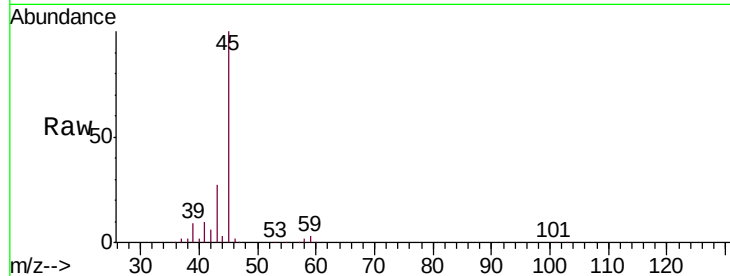




#19
Isopropyl Alcohol
Concen: 10.059 ppbv
RT: 4.03 min Scan# 341
Delta R.T. 0.01 min
Lab File: VL033575.D
Acq: 10 Apr 2019 22:18

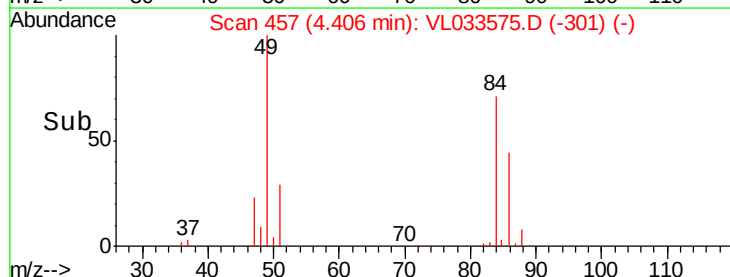
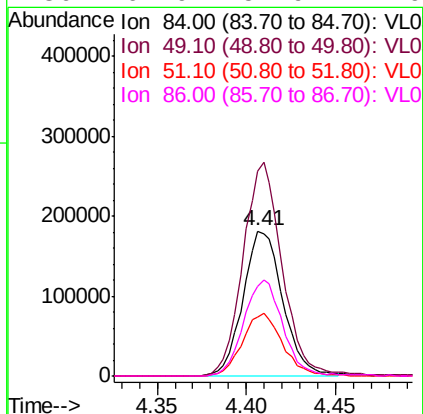
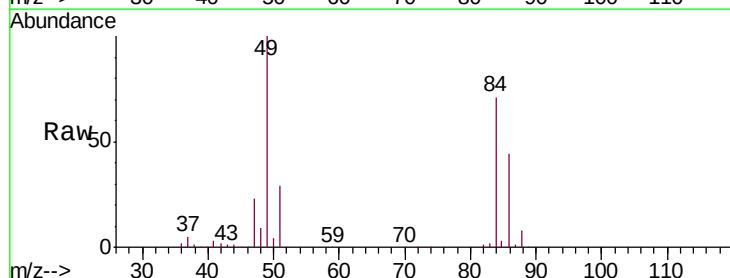
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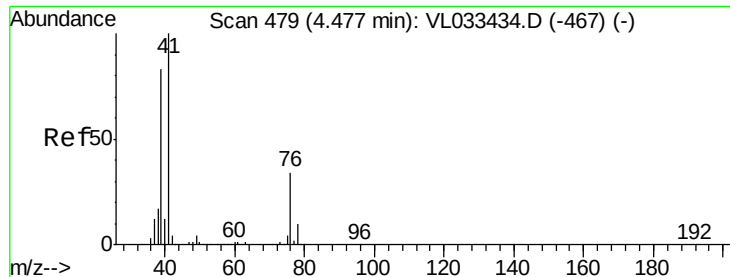
Tgt Ion: 45 Resp: 664393
Ion Ratio Lower Upper
45 100
58 2.6 1.4 2.2#



#20
Methylene Chloride
Concen: 6.377 ppbv
RT: 4.41 min Scan# 457
Delta R.T. 0.00 min
Lab File: VL033575.D
Acq: 10 Apr 2019 22:18

Tgt Ion: 84 Resp: 282652
Ion Ratio Lower Upper
84 100
49 141.3 120.0 180.0
51 40.7 36.7 55.1
86 61.9 51.9 77.9

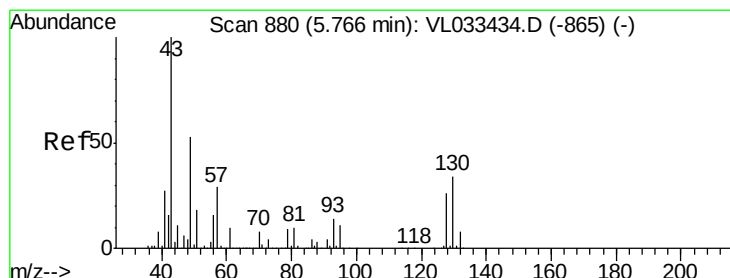
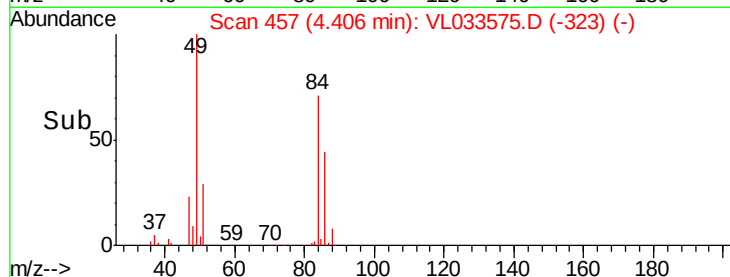
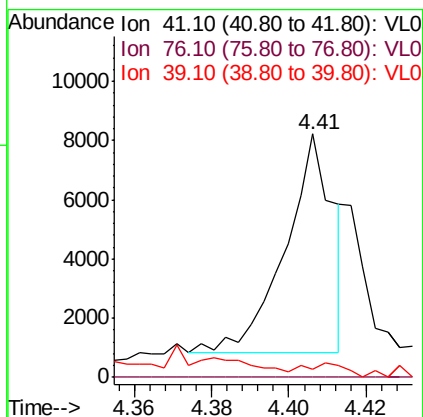
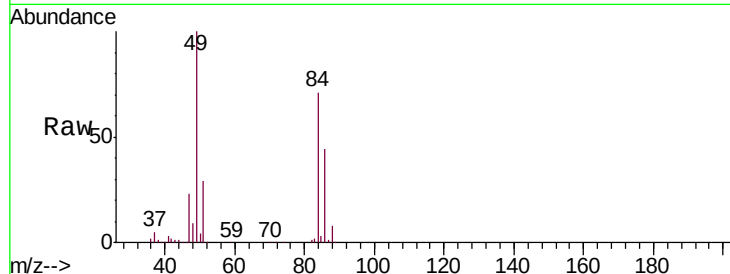




#21
 Allyl Chloride
 Concen: 0.098 ppbv
 RT: 4.41 min Scan# 457
 Delta R.T. -0.07 min
 Lab File: VL033575.D
 Acq: 10 Apr 2019 22:18

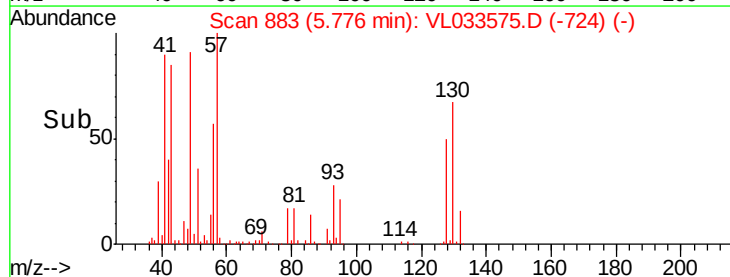
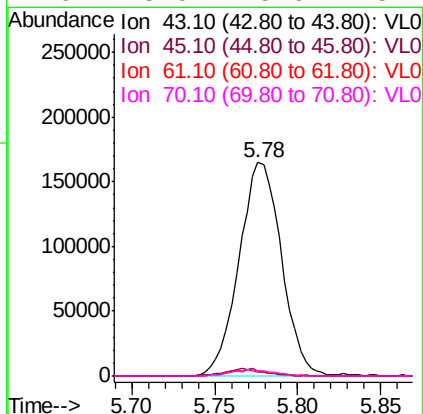
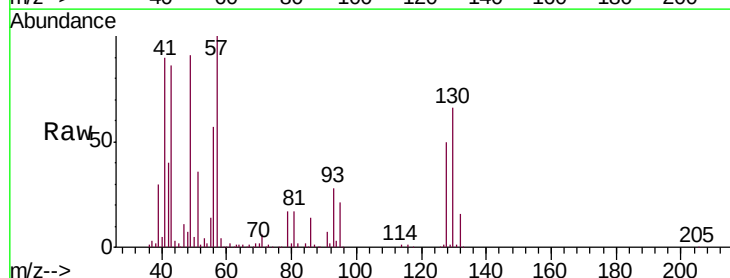
Instrument :
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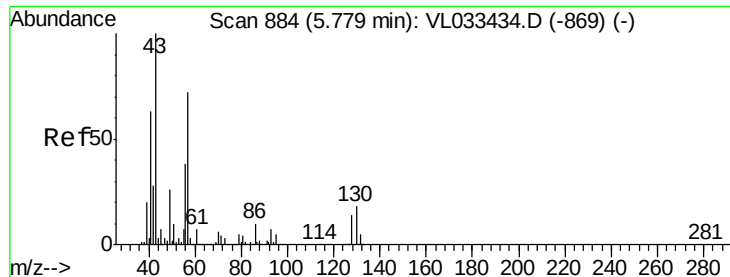
Tgt Ion: 41 Resp: 6450
 Ion Ratio Lower Upper
 41 100
 76 0.0 25.4 38.2#
 39 30.3 65.3 97.9#



#25
 Ethyl Acetate
 Concen: 1.515 ppbv
 RT: 5.78 min Scan# 883
 Delta R.T. 0.01 min
 Lab File: VL033575.D
 Acq: 10 Apr 2019 22:18

Tgt Ion: 43 Resp: 293512
 Ion Ratio Lower Upper
 43 100
 45 3.5 7.8 11.6#
 61 2.8 7.3 10.9#
 70 3.0 5.6 8.4#

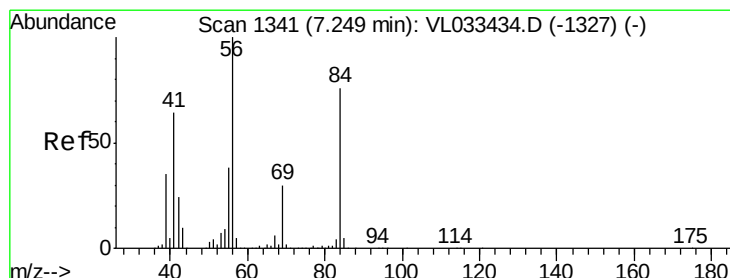
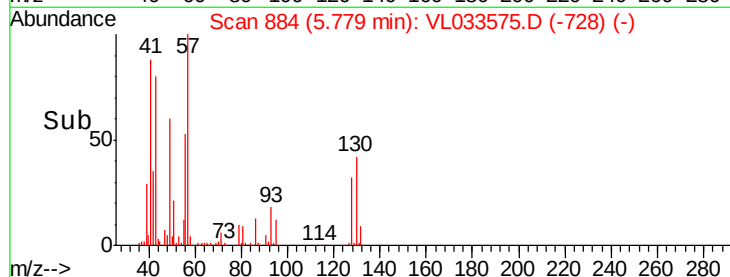
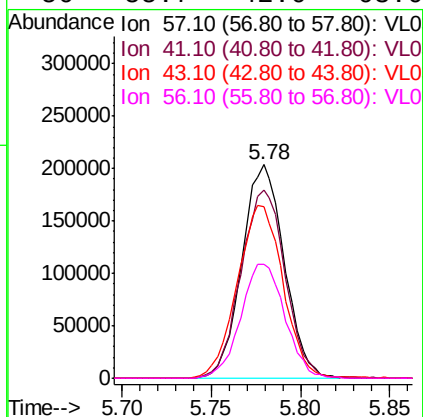
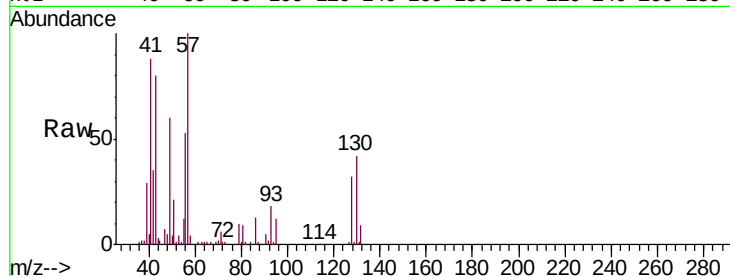




#26
Hexane
Concen: 3.920 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033575.D
Acq: 10 Apr 2019 22:18

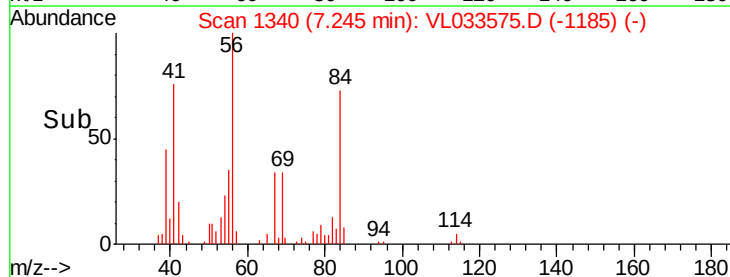
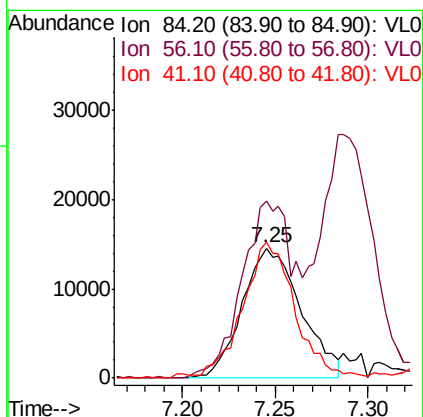
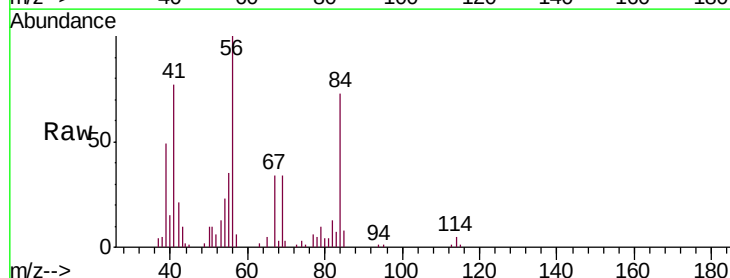
Instrument :
MSVOA_L
ClientSampleId :
A-6

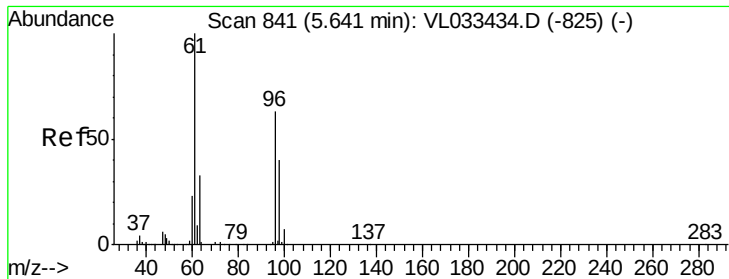
Tgt Ion:	57	Resp:	337637
Ion	Ratio	Lower	Upper
57	100		
41	92.5	70.7	106.1
43	87.9	182.6	274.0#
56	55.7	42.0	63.0



#30
Cyclohexane
Concen: 0.470 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033575.D
Acq: 10 Apr 2019 22:18

Tgt Ion:	84	Resp:	32030
Ion	Ratio	Lower	Upper
84	100		
56	118.6	109.7	164.5
41	94.8	68.2	102.2



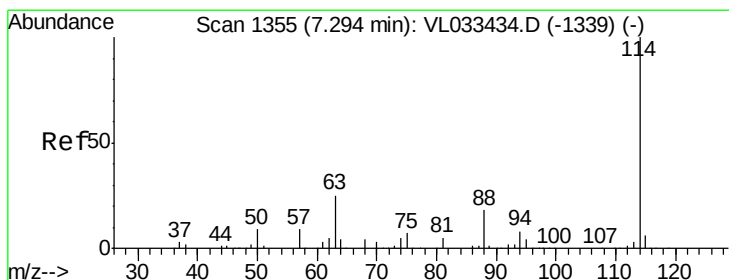
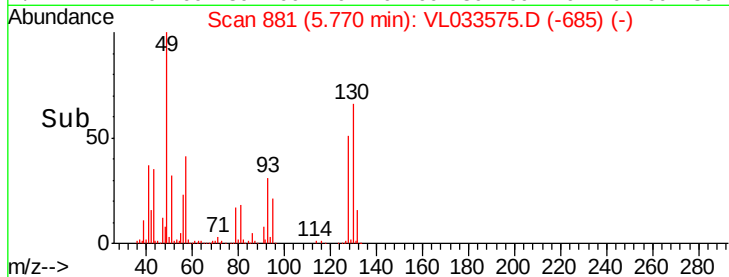
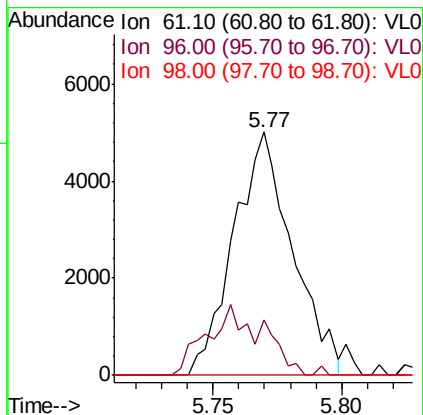
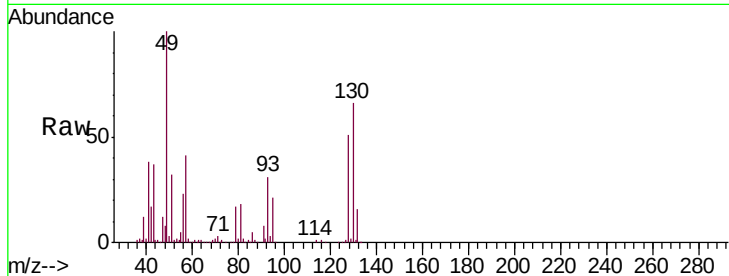


#31

cis-1,2-Dichloroethene
 Concen: 0.093 ppbv
 RT: 5.77 min Scan# 881
 Delta R.T. 0.13 min
 Lab File: VL033575.D
 Acq: 10 Apr 2019 22:18

Instrument :
 MSVOA_L
 ClientSampleId :
 A-6

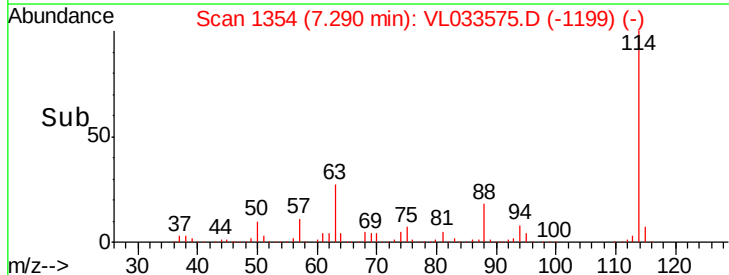
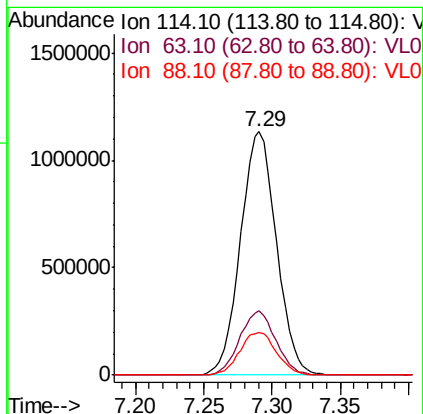
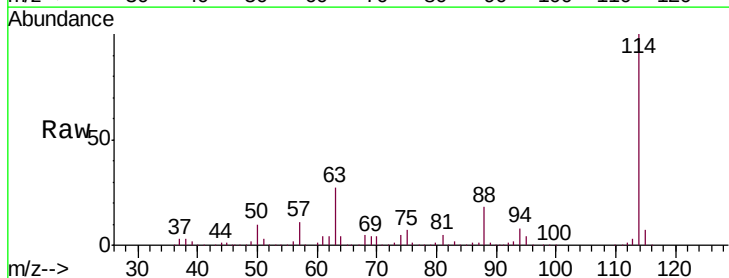
Tgt Ion: 61 Resp: 7980
 Ion Ratio Lower Upper
 61 100
 96 22.8 50.6 76.0#
 98 0.0 32.2 48.2#

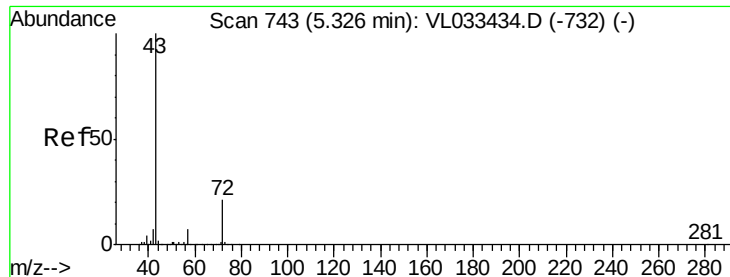


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033575.D
 Acq: 10 Apr 2019 22:18

Tgt Ion: 114 Resp: 2074079
 Ion Ratio Lower Upper
 114 100
 63 26.7 21.5 32.3
 88 17.9 14.5 21.7

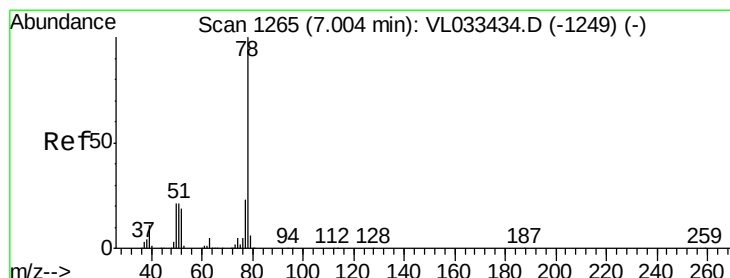
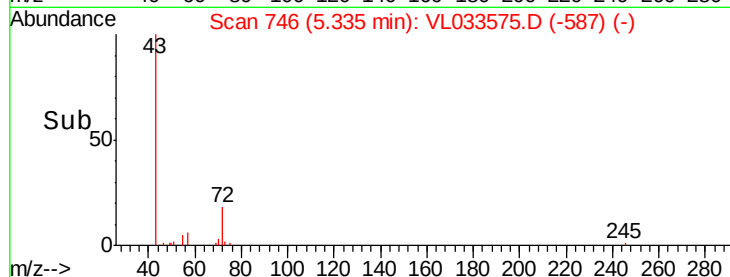
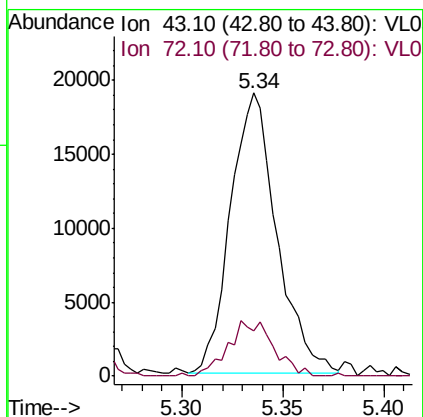
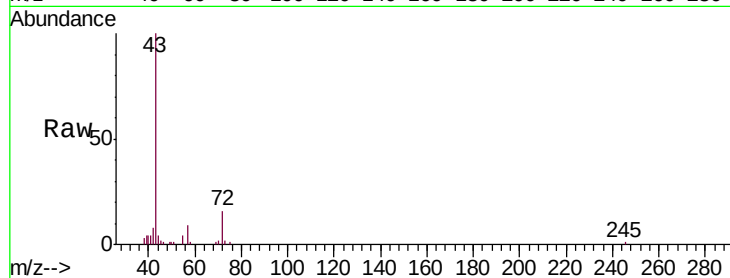




#34
 2-Butanone
 Concen: 0.243 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. 0.01 min
 Lab File: VL033575.D
 Acq: 10 Apr 2019 22:18

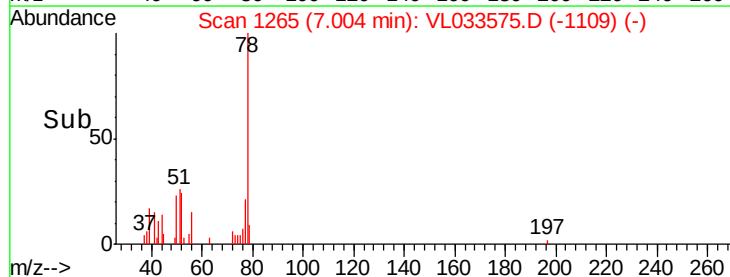
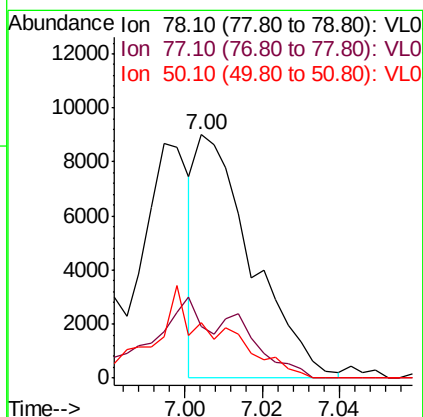
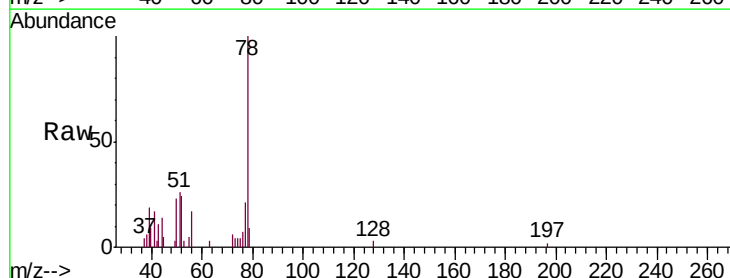
Instrument :
 MSVOA_L
 ClientSampleId :
 A-6

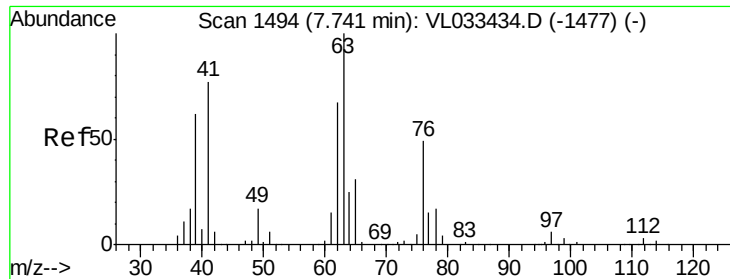
Tgt Ion: 43 Resp: 30233
 Ion Ratio Lower Upper
 43 100
 72 19.5 17.4 26.2



#36
 Benzene
 Concen: 0.052 ppbv
 RT: 7.00 min Scan# 1265
 Delta R.T. 0.00 min
 Lab File: VL033575.D
 Acq: 10 Apr 2019 22:18

Tgt Ion: 78 Resp: 8978
 Ion Ratio Lower Upper
 78 100
 77 19.7 18.1 27.1
 50 23.4 16.7 25.1

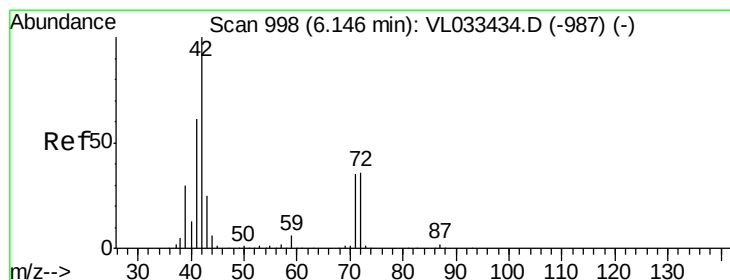
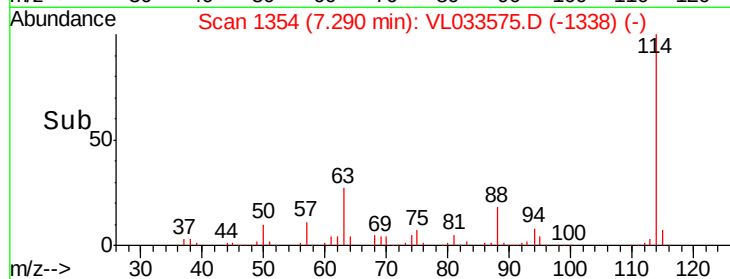
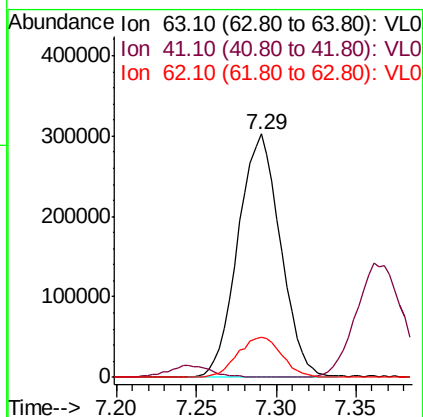
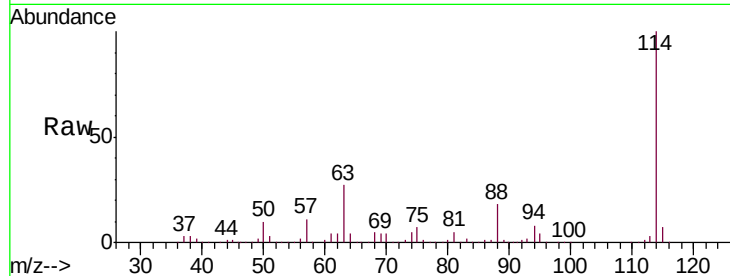




#39
 1,2-Dichloropropane
 Concen: 8.007 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.45 min
 Lab File: VL033575.D
 Acq: 10 Apr 2019 22:18

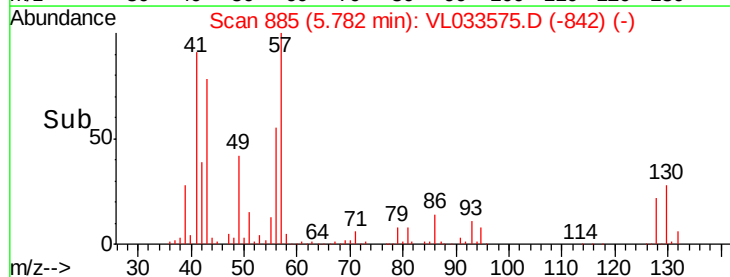
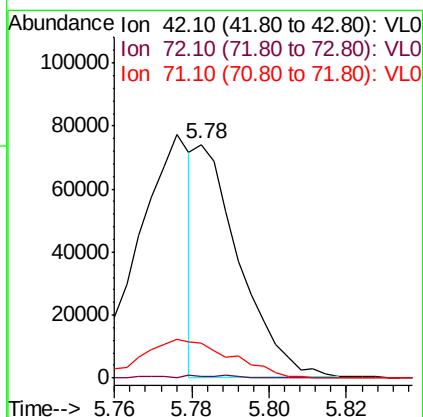
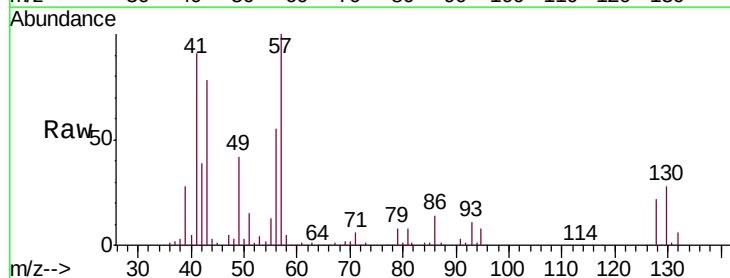
Instrument :
 MSVOA_L
 ClientSampleId :
 A-6

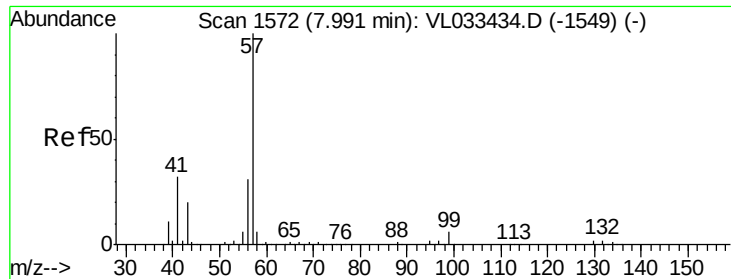
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	61.2	91.8#
62	16.5	54.0	81.0#



#41
 Tetrahydrofuran
 Concen: 0.840 ppbv
 RT: 5.78 min Scan# 885
 Delta R.T. -0.36 min
 Lab File: VL033575.D
 Acq: 10 Apr 2019 22:18

Tgt Ion	Ratio	Lower	Upper
42	100		
72	2.1	30.2	45.2#
71	0.0	29.4	44.2#

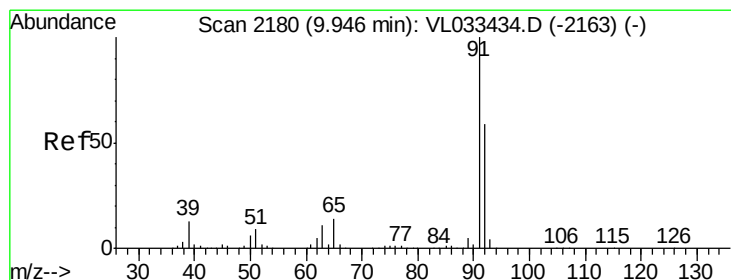
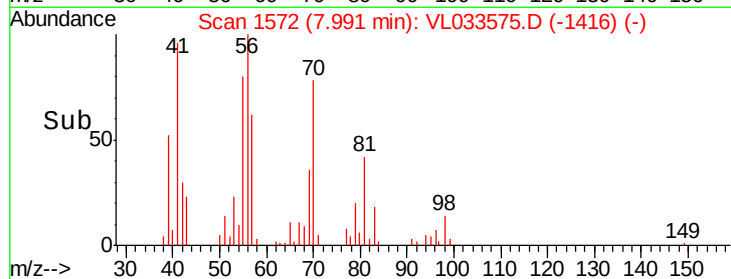
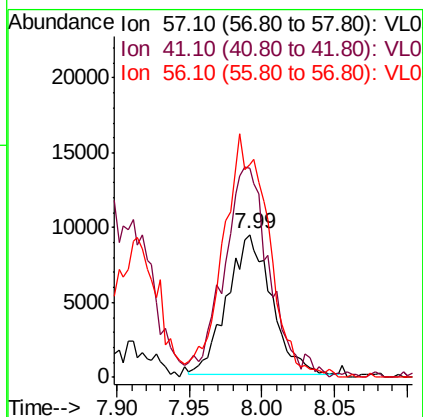
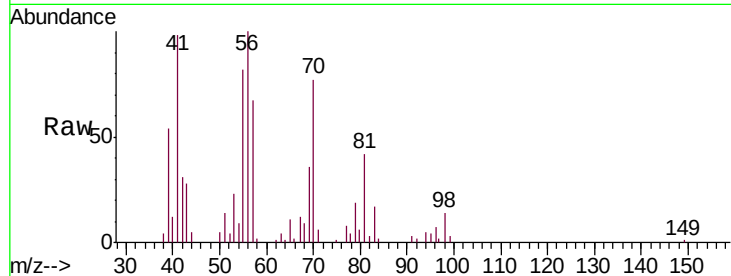




#44
 2,2,4-Trimethylpentane
 Concen: 0.065 ppbv
 RT: 7.99 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VL033575.D
 Acq: 10 Apr 2019 22:18

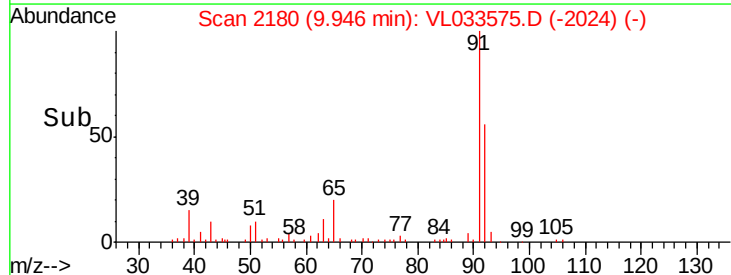
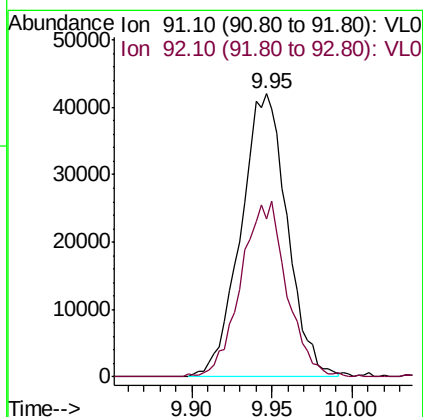
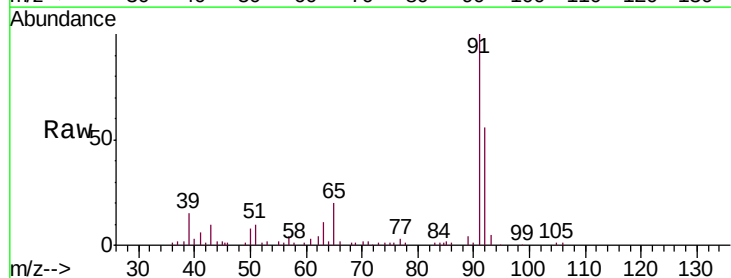
Instrument :
 MSVOA_L
 ClientSampled :
 A-6

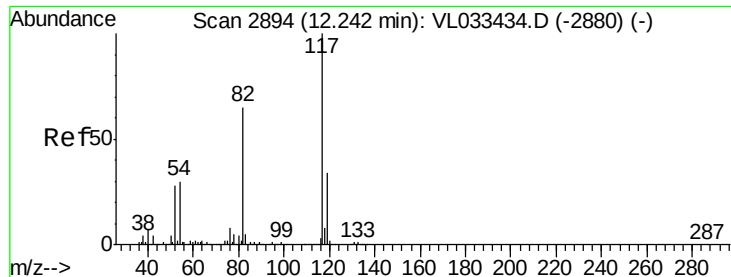
Tgt Ion: 57 Resp: 19802
 Ion Ratio Lower Upper
 57 100
 41 155.6 26.0 39.0#
 56 178.1 24.6 37.0#



#53
 Toluene
 Concen: 0.411 ppbv
 RT: 9.95 min Scan# 2180
 Delta R.T. 0.00 min
 Lab File: VL033575.D
 Acq: 10 Apr 2019 22:18

Tgt Ion: 91 Resp: 83199
 Ion Ratio Lower Upper
 91 100
 92 61.2 47.4 71.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL033575.D

Acq: 10 Apr 2019 22:18

Instrument :

MSVOA_L

ClientSampleId :

A-6

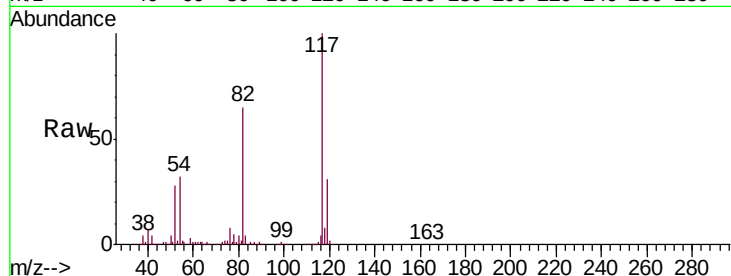
Tgt Ion:117 Resp: 2052475

Ion Ratio Lower Upper

117 100

82 66.8 51.5 77.3

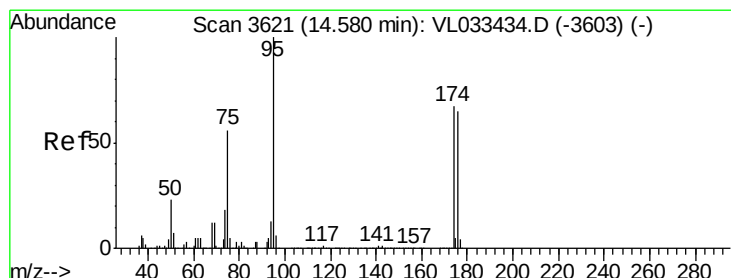
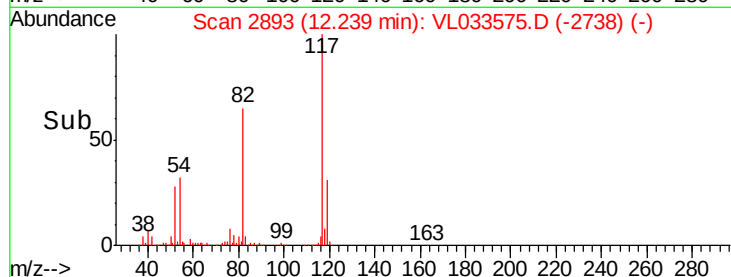
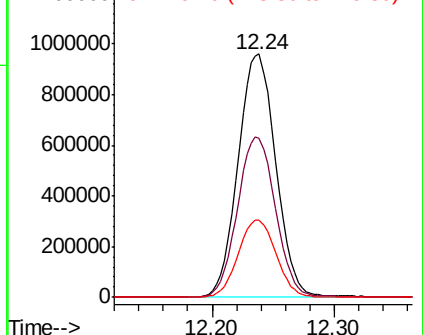
119 32.2 25.5 38.3



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.059 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033575.D

Acq: 10 Apr 2019 22:18

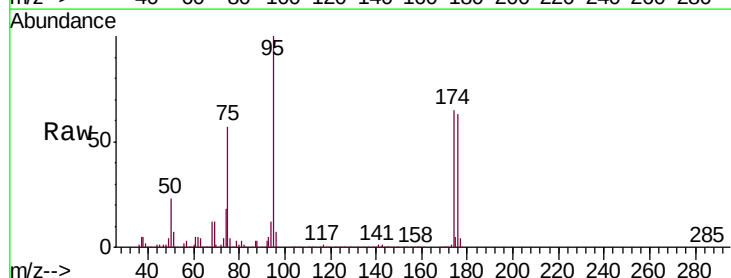
Tgt Ion: 95 Resp: 1618489

Ion Ratio Lower Upper

95 100

174 66.9 52.9 79.3

175 4.7 3.8 5.6



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

