

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020419\
 Data File : VL033160.D
 Acq On : 4 Feb 2019 18:34
 Operator : SY/AP
 Sample : K1245-01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 S-01

Quant Time: Feb 05 01:01:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Feb 04 14:41:39 2019
 QLast Update : Mon Feb 04 14:41:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	994680	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2247447	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2468658	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2768494	15.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	150.50%#

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	3.08	85	97747	0.667	ppbv 93
3) Chlorodifluoromethane	2.99	51	118002	1.065	ppbv # 76
4) Chloromethane	3.17	50	39211	0.629	ppbv 96
7) Chloroethane	3.60	64	647	0.031	ppbv # 47
8) Dichlorotetrafluoroethane	3.22	85	6801	0.051	ppbv 86
9) Propene	3.24	41	134948	2.424	ppbv 86
10) Heptane	8.25	43	30303	0.175	ppbv 98
11) Trichlorofluoromethane	4.01	101	38858	0.275	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.56	101	8126	0.088	ppbv 88
13) Ethanol	3.66	45	1851502	84.374	ppbv 98
15) Acetone	3.91	43	541355	4.571	ppbv 90
16) 1,3-Butadiene	3.35	39	9947	0.207	ppbv # 71
17) tert-Butyl alcohol	4.38	59	2810	0.107	ppbv # 73
19) Isopropyl Alcohol	4.04	45	171349	2.037	ppbv # 30
20) Methylene Chloride	4.41	84	116064	2.845	ppbv 98
23) Vinyl Acetate	5.15	43	41440	0.215	ppbv # 24
25) Ethyl Acetate	5.78	43	234269	0.957	ppbv # 92
26) Hexane	5.78	57	203618	1.778	ppbv # 61
27) Carbon Disulfide	4.63	76	3686	0.037	ppbv # 1
28) Methyl tert-Butyl Ether	5.13	73	5321	0.032	ppbv 99
29) Chloroform	5.85	83	341459	1.971	ppbv 97
30) Cyclohexane	7.25	84	12940	0.118	ppbv # 16
31) cis-1,2-Dichloroethene	5.64	61	11977	0.110	ppbv 92
34) 2-Butanone	5.34	43	82084	0.581	ppbv 100
35) Carbon Tetrachloride	7.14	117	6879	0.048	ppbv # 89
36) Benzene	7.00	78	81859	0.360	ppbv 98
37) 1,2-Dichloroethane	6.41	62	6340	0.055	ppbv # 81
38) Trichloroethene	7.96	130	59408	0.720	ppbv 87
39) 1,2-Dichloropropane	7.29	63	593039	6.805	ppbv # 26
42) Bromodichloromethane	7.92	83	8476	0.050	ppbv # 86
44) 2,2,4-Trimethylpentane	7.99	57	42867	0.112	ppbv # 12
50) 4-Methyl-2-Pentanone	8.89	43	11587	0.045	ppbv # 39
52) Tetrachloroethene	11.38	164	255197	3.232	ppbv 97
53) Toluene	9.95	91	174849	0.648	ppbv # 15
58) Ethyl Benzene	12.86	91	20607	0.053	ppbv 93
59) m/p-Xylene	13.12	91	35526	0.112	ppbv # 30
60) o-Xylene	13.85	91	83683	0.285	ppbv 93
62) Isopropylbenzene	14.82	105	27276	0.065	ppbv 95
72) 4-Ethyltoluene	16.00	105	16435	0.047	ppbv # 32
73) 1,3,5-Trimethylbenzene	16.16	105	20375	0.060	ppbv 97
74) 1,2,4-Trimethylbenzene	16.93	105	93532	0.271	ppbv # 80

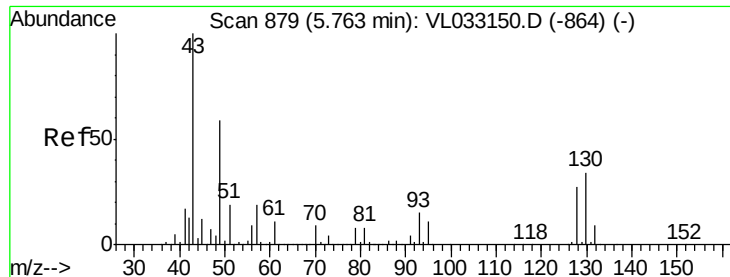
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020419\
Data File : VL033160.D
Acq On : 4 Feb 2019 18:34
Operator : SY/AP
Sample : K1245-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
S-01

Quant Time: Feb 05 01:01:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020419AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Feb 04 14:41:39 2019
QLast Update : Mon Feb 04 14:41:39 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 1,4-Dichlorobenzene	17.31	146	9329	0.049	ppbv #	5
79) Naphthalene	22.42	128	13913	0.034	ppbv #	94
80) Naphthalene,2-methyl-	25.12	142	10930	0.053	ppbv #	87

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.01 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

ClientSampleId :

S-01

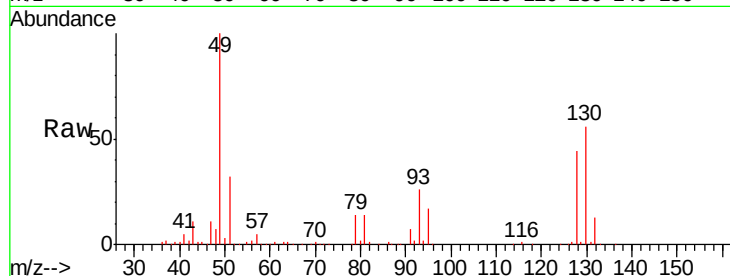
Tgt Ion: 49 Resp: 994680

Ion Ratio Lower Upper

49 100

128 43.8 23.2 69.5

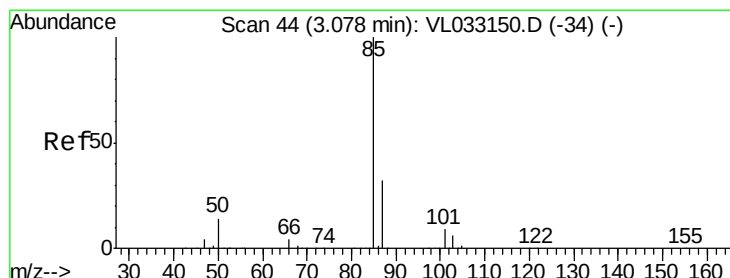
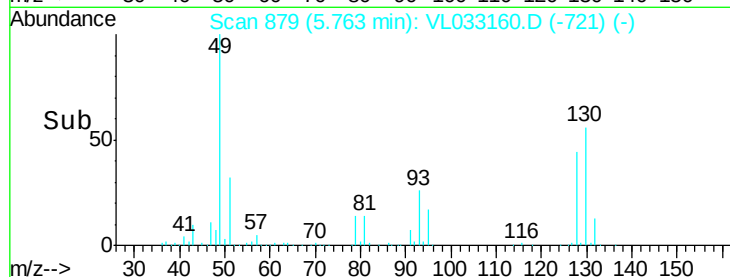
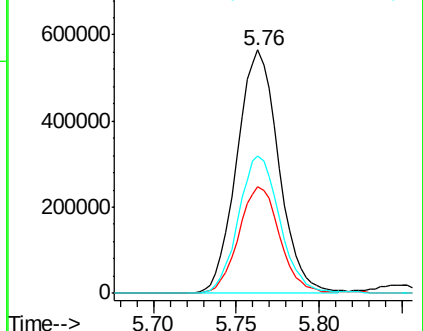
130 56.6 29.5 88.6



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: 0.667 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033160.D

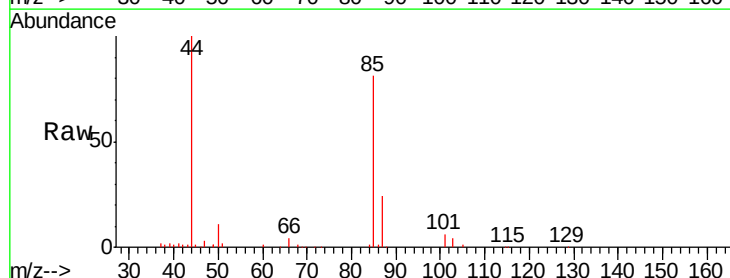
Acq: 4 Feb 2019 18:34

Tgt Ion: 85 Resp: 97747

Ion Ratio Lower Upper

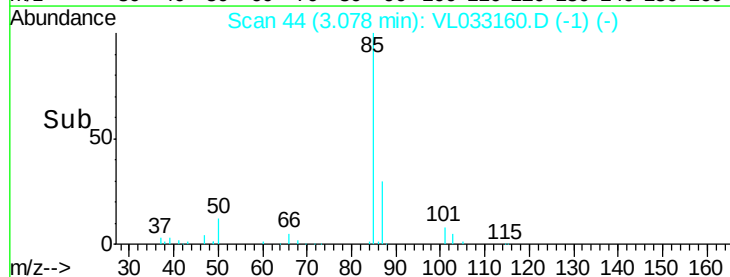
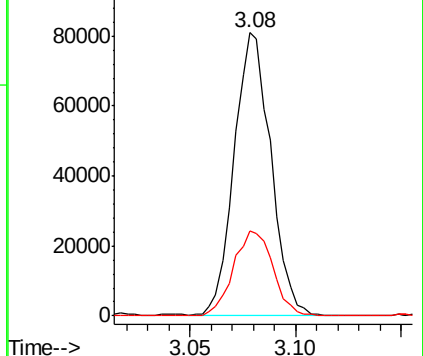
85 100

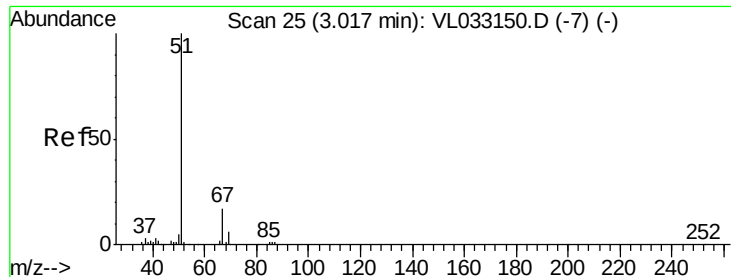
87 29.9 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

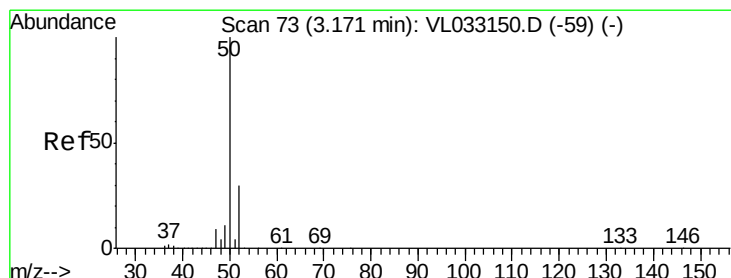
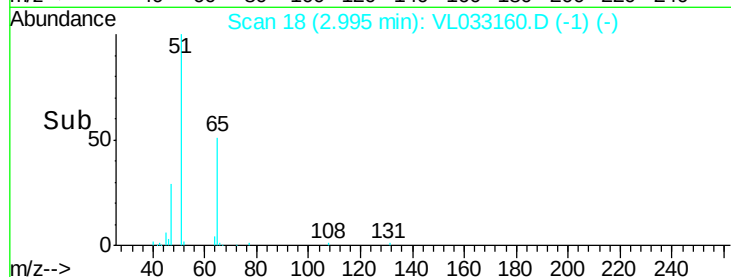
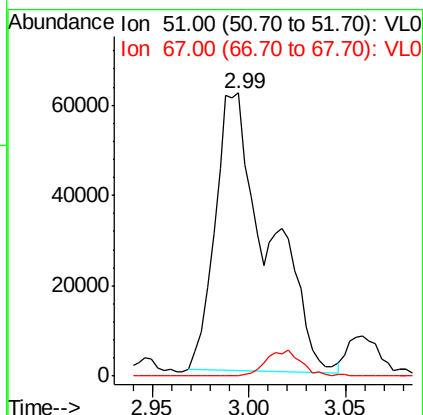
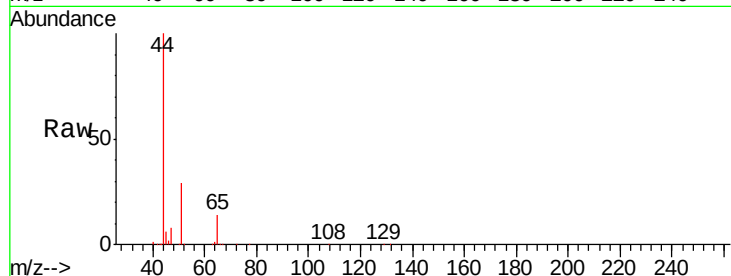




#3
Chlorodifluoromethane
Concen: 1.065 ppbv
RT: 2.99 min Scan# 18
Delta R.T. -0.02 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

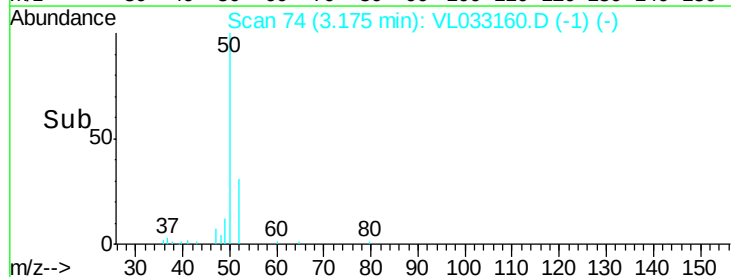
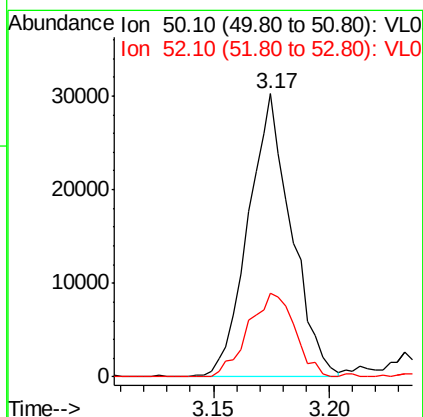
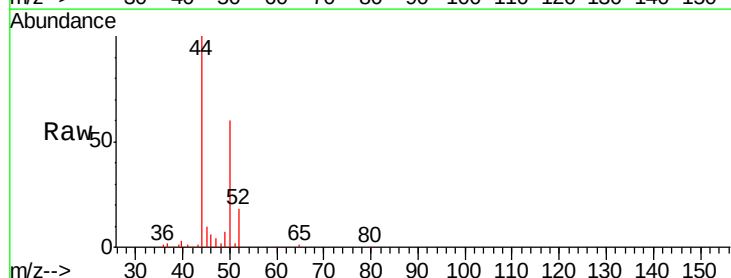
Instrument :
MSVOA_L
ClientSampled :
S-01

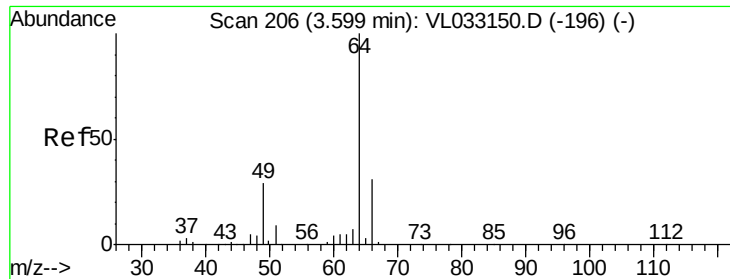
Tgt Ion: 51 Resp: 118002
Ion Ratio Lower Upper
51 100
67 6.3 13.4 20.2#



#4
Chloromethane
Concen: 0.629 ppbv
RT: 3.17 min Scan# 74
Delta R.T. 0.01 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

Tgt Ion: 50 Resp: 39211
Ion Ratio Lower Upper
50 100
52 29.8 25.7 38.5





#7

Chloroethane

Concen: 0.031 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

ClientSampleId :

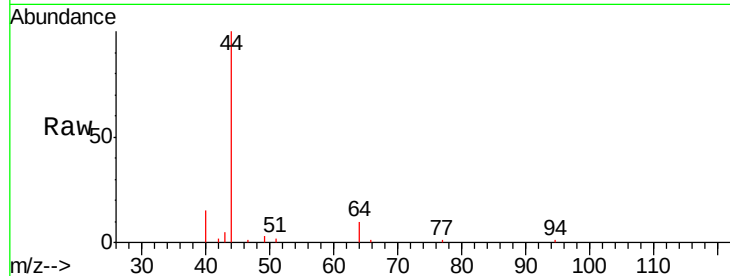
S-01

Tgt Ion: 64 Resp: 647

Ion Ratio Lower Upper

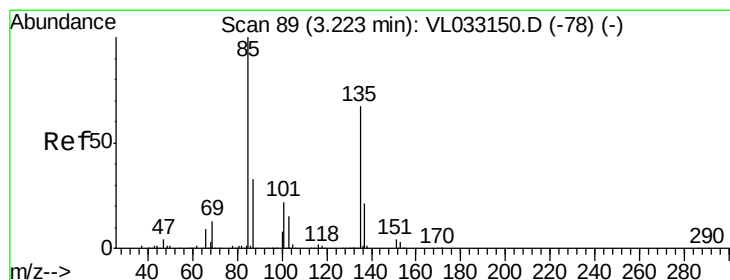
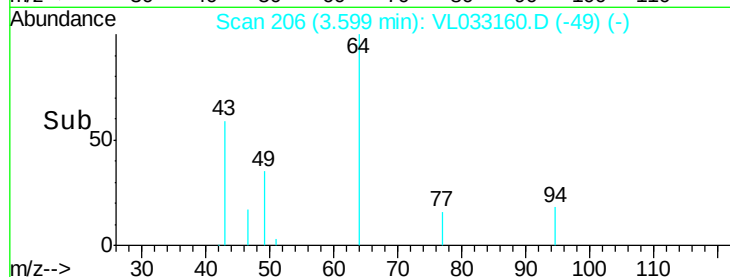
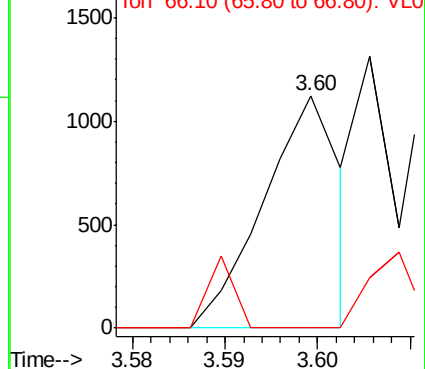
64 100

66 0.0 22.3 33.5#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.051 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.01 min

Lab File: VL033160.D

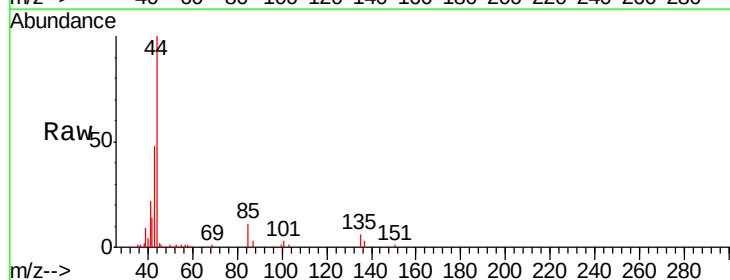
Acq: 4 Feb 2019 18:34

Tgt Ion: 85 Resp: 6801

Ion Ratio Lower Upper

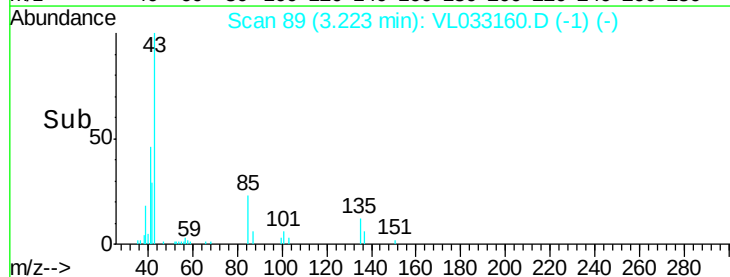
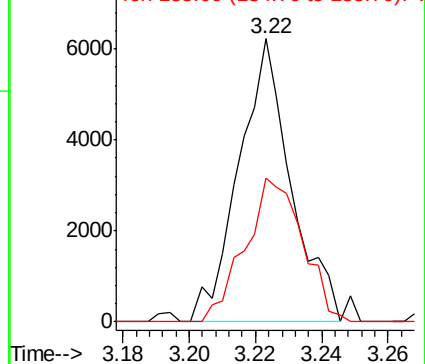
85 100

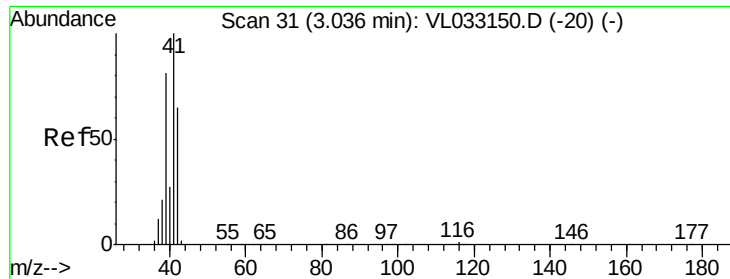
135 56.1 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 2.424 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.21 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

ClientSampleId :

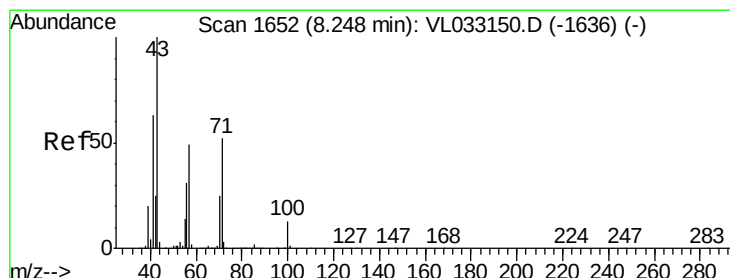
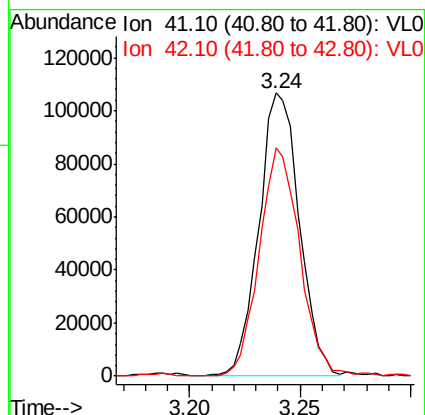
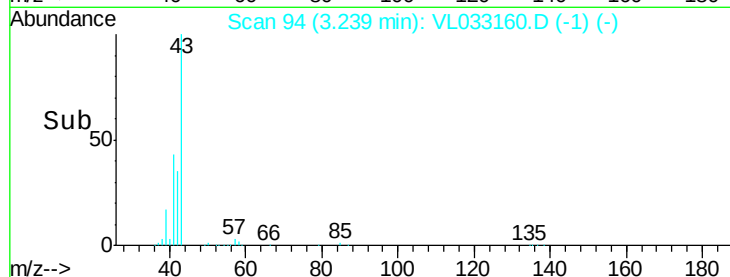
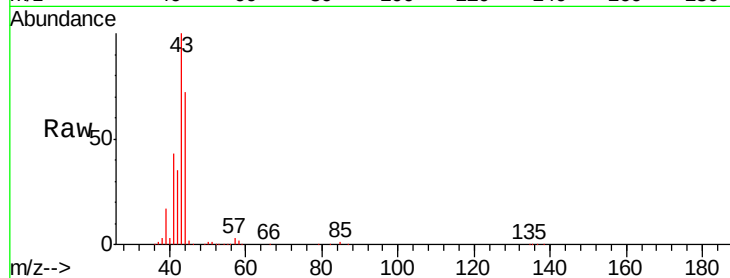
S-01

Tgt Ion: 41 Resp: 134948

Ion Ratio Lower Upper

41 100

42 80.6 55.1 82.7



#10

Heptane

Concen: 0.175 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033160.D

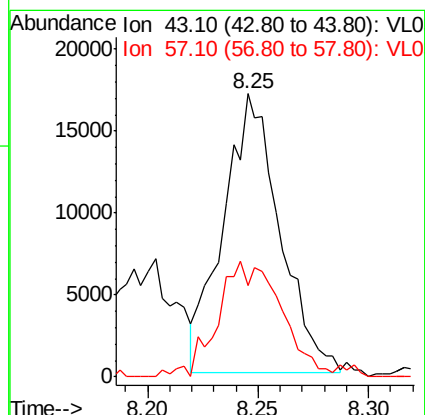
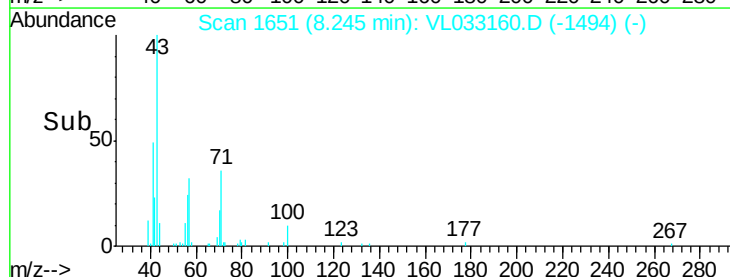
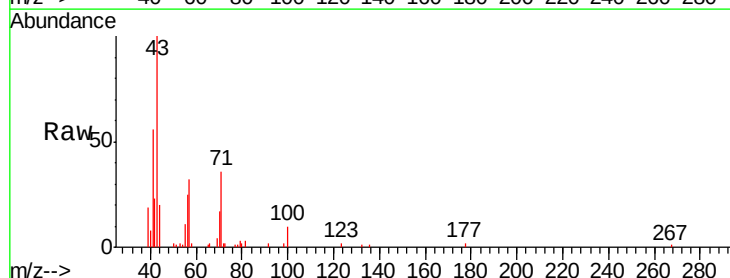
Acq: 4 Feb 2019 18:34

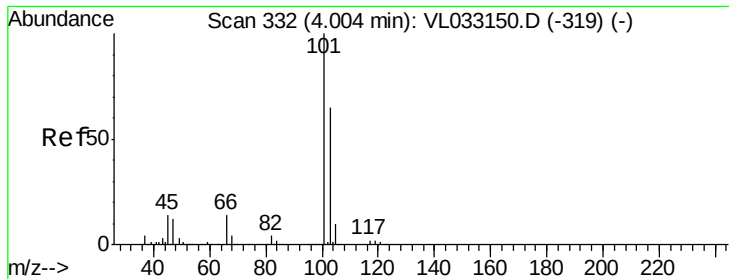
Tgt Ion: 43 Resp: 30303

Ion Ratio Lower Upper

43 100

57 47.8 39.3 58.9





#11

Trichlorofluoromethane

Concen: 0.275 ppbv

RT: 4.01 min Scan# 334

Delta R.T. 0.01 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

ClientSampleId :

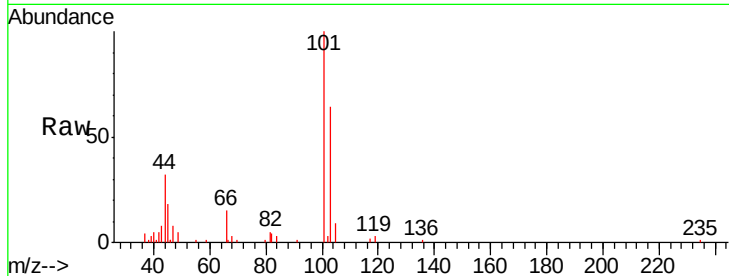
S-01

Tgt Ion:101 Resp: 38858

Ion Ratio Lower Upper

101 100

103 64.4 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.01

25000

20000

15000

10000

5000

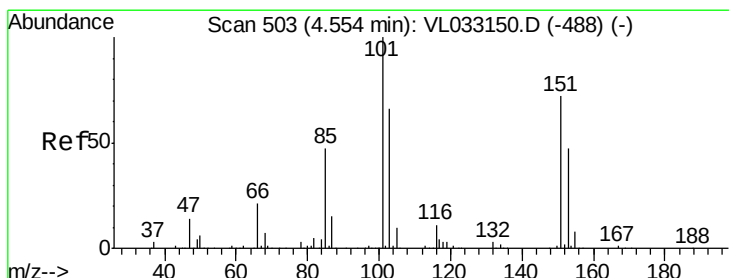
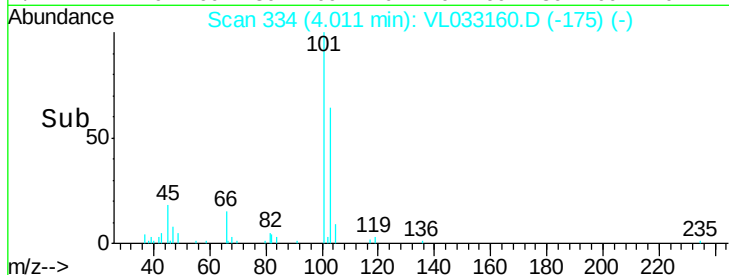
0

Time-->

3.95

4.00

4.05



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.088 ppbv

RT: 4.56 min Scan# 504

Delta R.T. 0.01 min

Lab File: VL033160.D

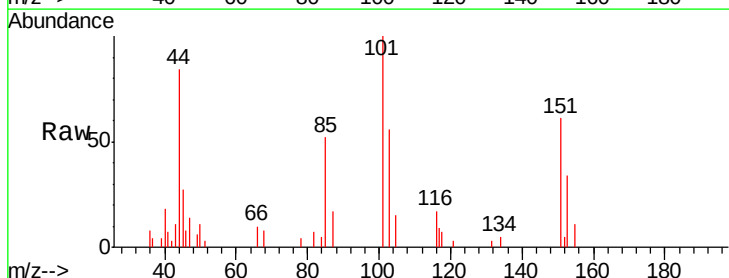
Acq: 4 Feb 2019 18:34

Tgt Ion:101 Resp: 8126

Ion Ratio Lower Upper

101 100

151 82.4 57.9 86.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.56

6000

4000

2000

0

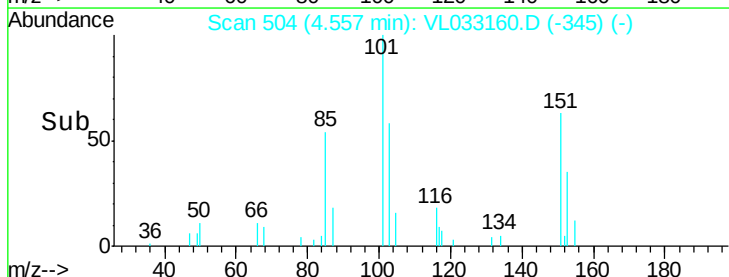
Time-->

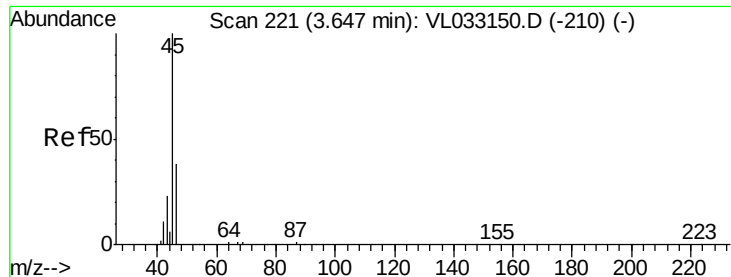
4.52

4.54

4.56

4.58





#13

Ethanol

Concen: 84.374 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

ClientSampleId :

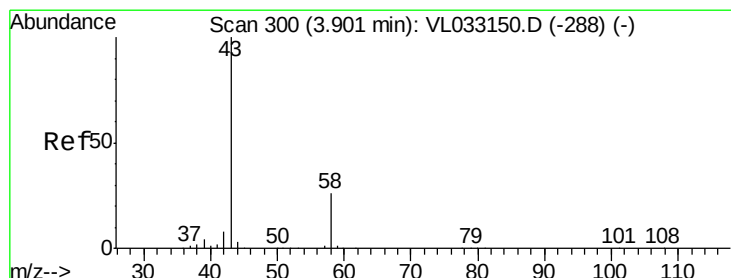
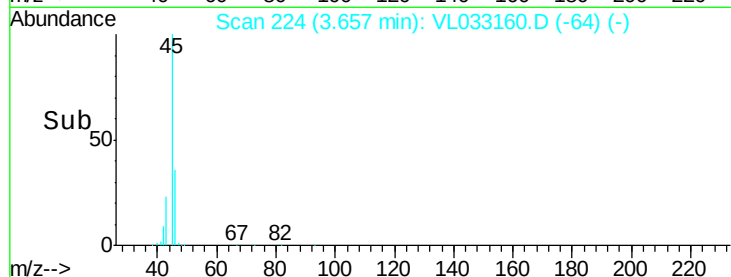
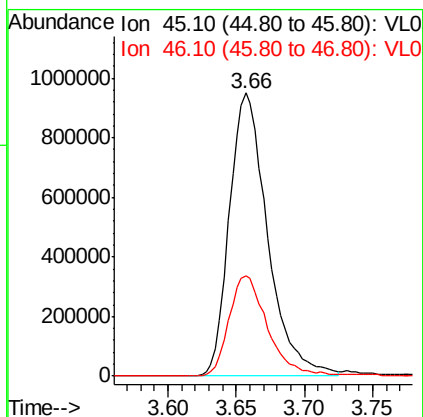
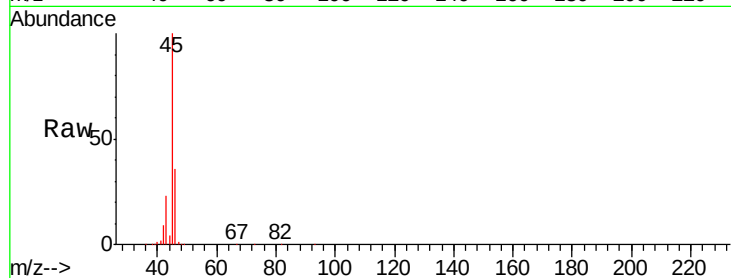
S-01

Tgt Ion: 45 Resp: 1851502

Ion Ratio Lower Upper

45 100

46 36.3 14.0 56.2



#15

Acetone

Concen: 4.571 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.01 min

Lab File: VL033160.D

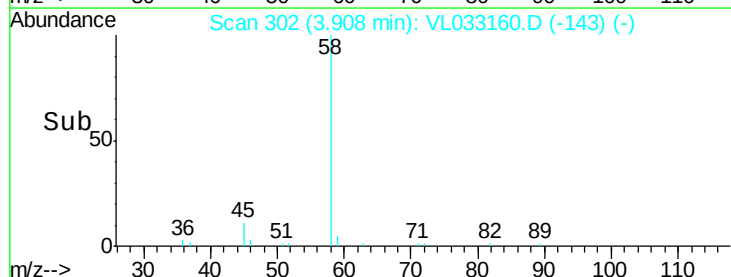
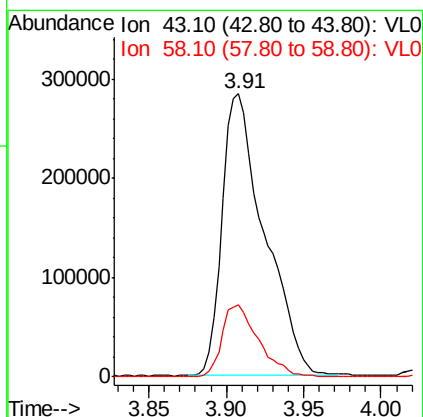
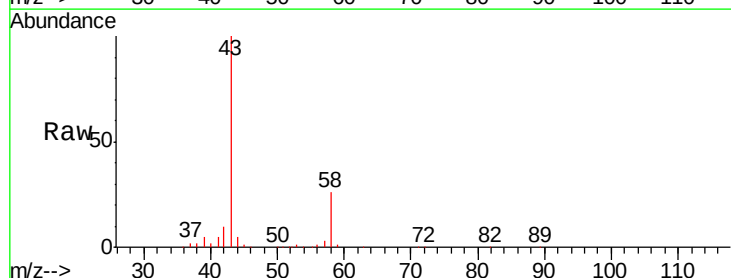
Acq: 4 Feb 2019 18:34

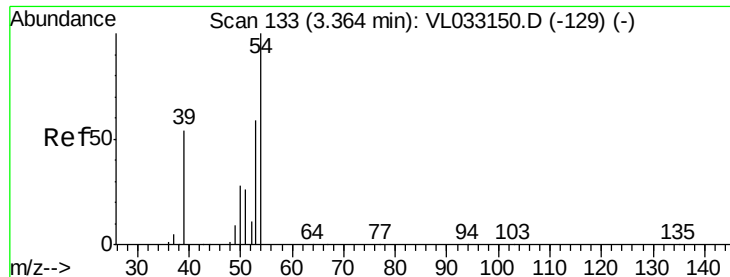
Tgt Ion: 43 Resp: 541355

Ion Ratio Lower Upper

43 100

58 22.1 21.8 32.6





#16

1,3-Butadiene

Concen: 0.207 ppbv

RT: 3.35 min Scan# 127

Delta R.T. -0.02 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

ClientSampleId :

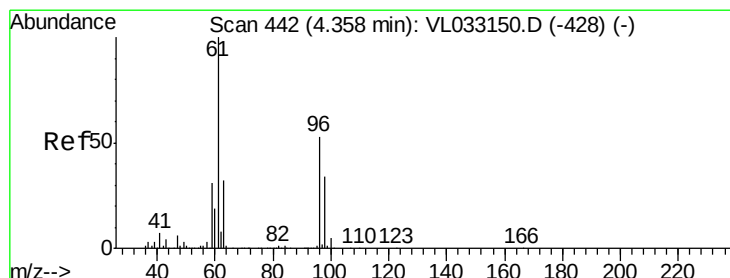
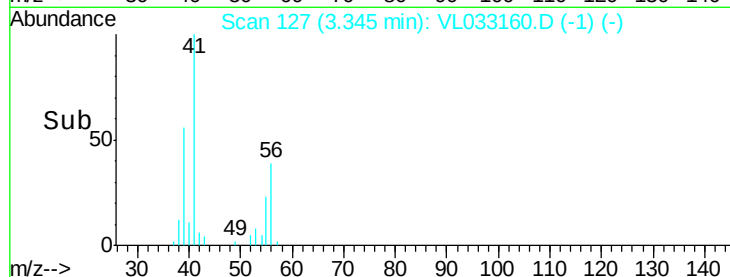
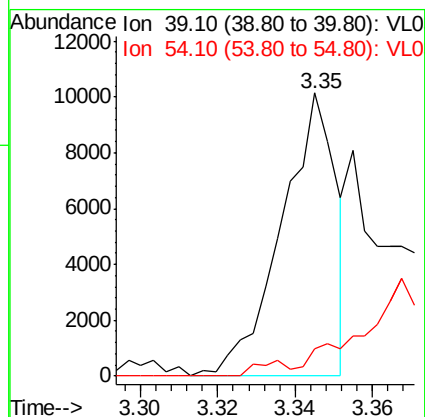
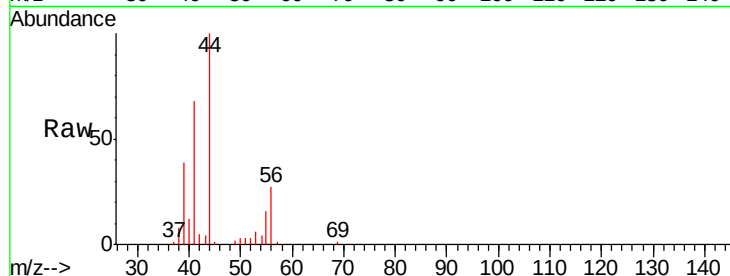
S-01

Tgt Ion: 39 Resp: 9947

Ion Ratio Lower Upper

39 100

54 66.3 75.0 112.6#



#17

tert-Butyl alcohol

Concen: 0.107 ppbv

RT: 4.38 min Scan# 448

Delta R.T. 0.02 min

Lab File: VL033160.D

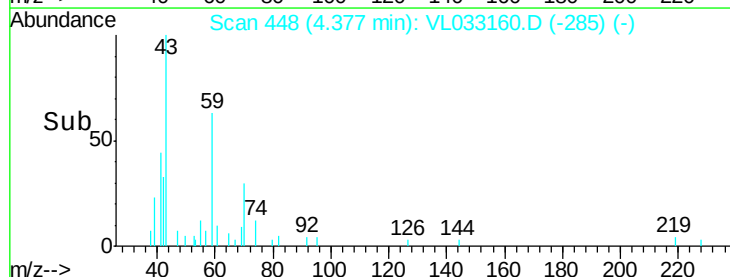
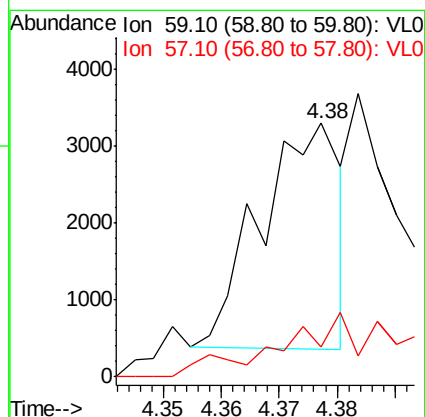
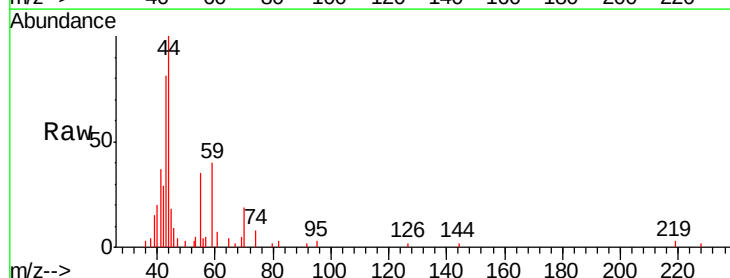
Acq: 4 Feb 2019 18:34

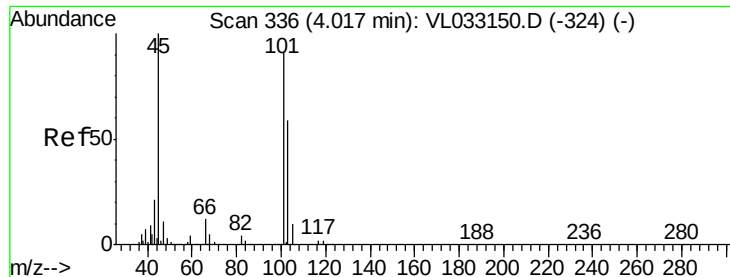
Tgt Ion: 59 Resp: 2810

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#





#19

Isopropyl Alcohol

Concen: 2.037 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.02 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

ClientSampleId :

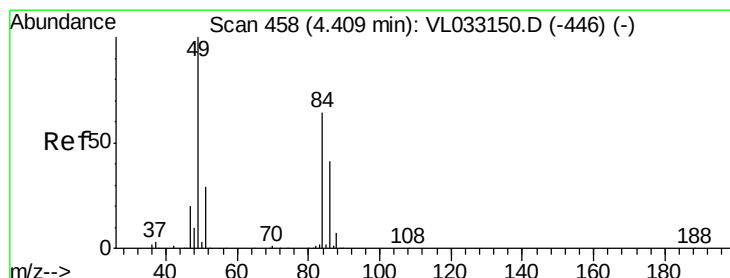
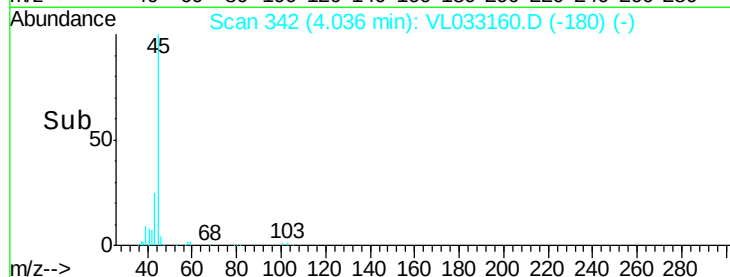
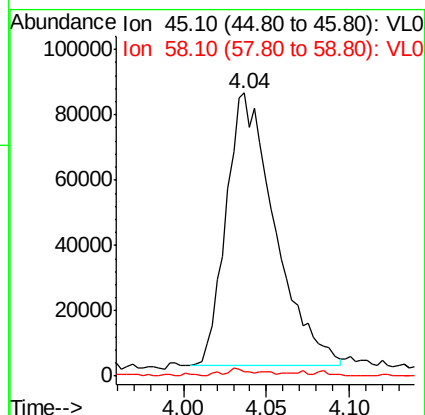
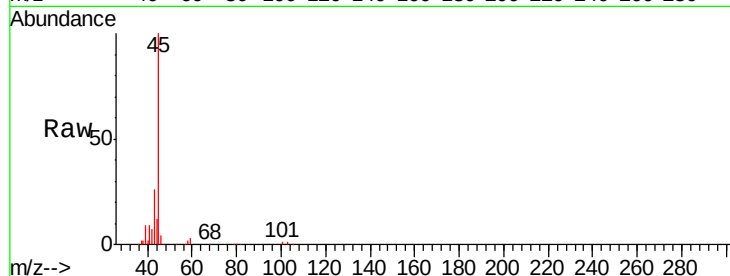
S-01

Tgt Ion: 45 Resp: 171349

Ion Ratio Lower Upper

45 100

58 70.1 25.1 37.7#



#20

Methylene Chloride

Concen: 2.845 ppbv

RT: 4.41 min Scan# 459

Delta R.T. 0.01 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Tgt Ion: 84 Resp: 116064

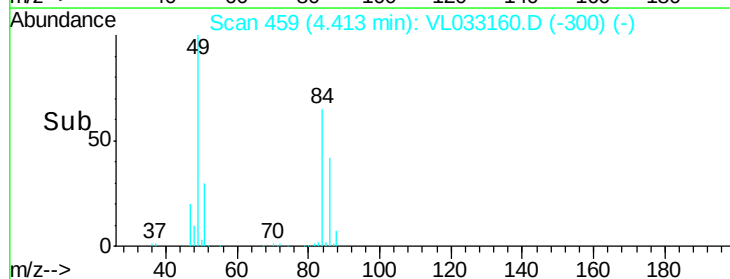
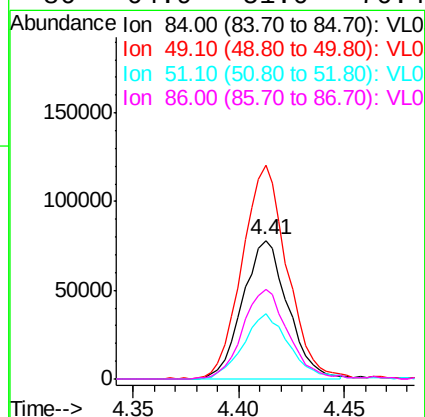
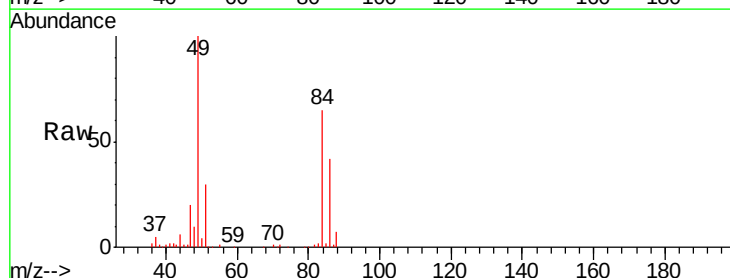
Ion Ratio Lower Upper

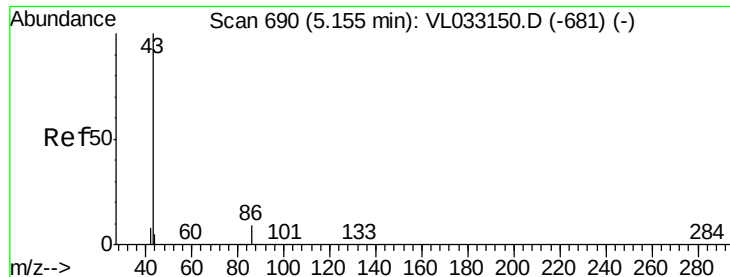
84 100

49 154.2 121.1 181.7

51 46.8 37.5 56.3

86 64.9 51.0 76.4





#23

Vinyl Acetate

Concen: 0.215 ppbv

RT: 5.15 min Scan# 688

Delta R.T. 0.00 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

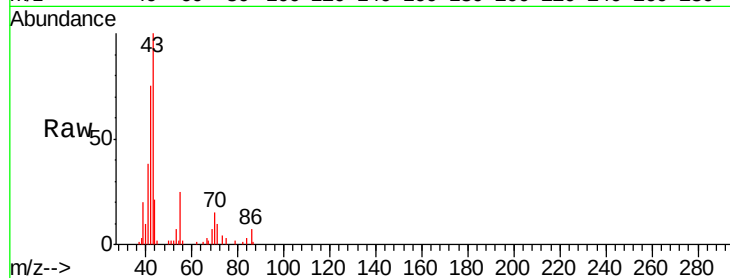
ClientSampleId :

S-01

Tgt Ion: 43 Resp: 41440

Ion Ratio Lower Upper

43	100		
86	7.7	6.2	9.4
42	73.7	7.7	11.5#
44	5.7	3.8	5.8

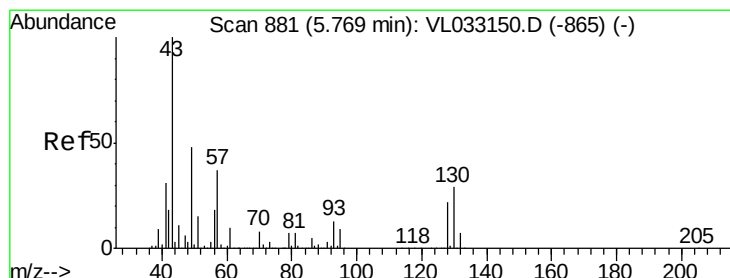
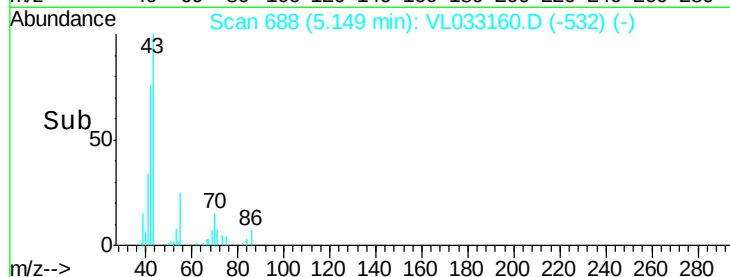
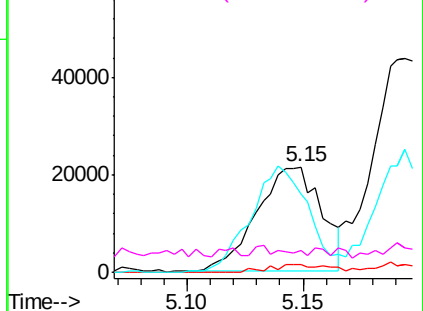


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#25

Ethyl Acetate

Concen: 0.957 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.02 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Tgt Ion: 43 Resp: 234269

Ion Ratio Lower Upper

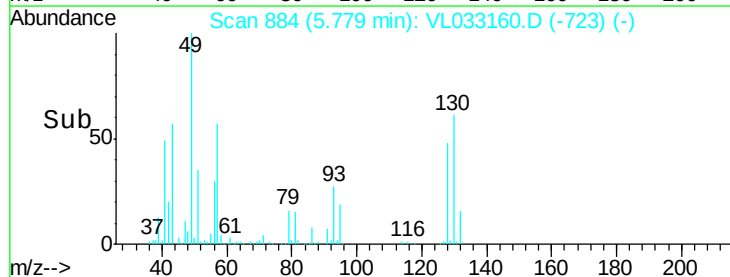
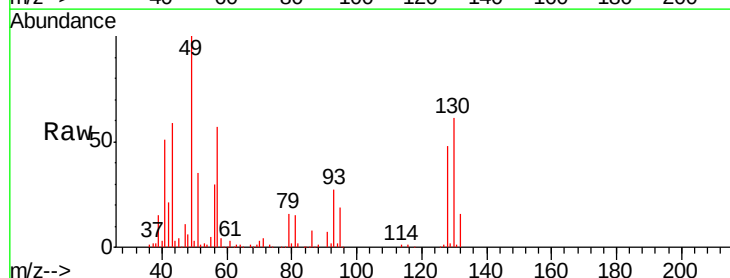
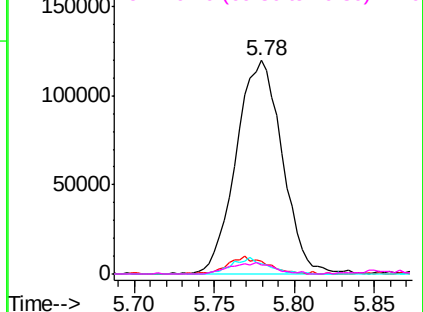
43	100		
45	7.2	8.0	12.0#
61	5.9	7.4	11.2#
70	4.9	5.9	8.9#

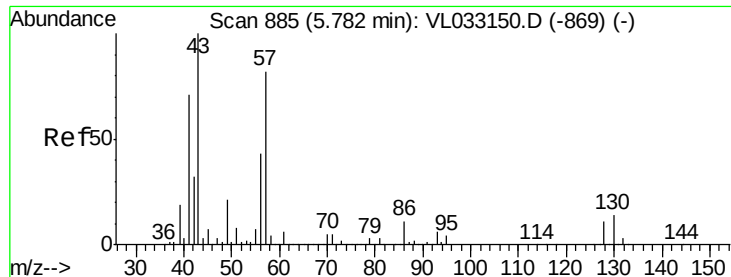
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 1.778 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.01 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

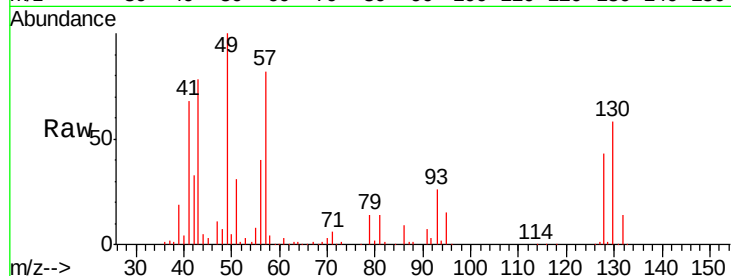
ClientSampleId :

S-01

Tgt Ion: 57 Resp: 203618

Ion Ratio Lower Upper

57	100		
41	87.6	69.5	104.3
43	117.2	175.5	263.3#
56	51.9	41.6	62.4

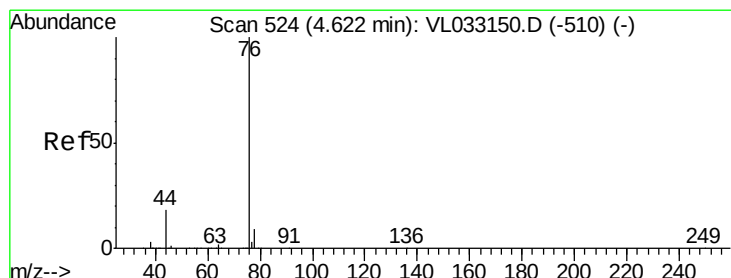
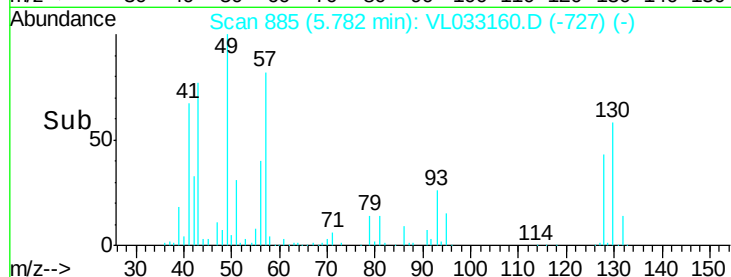
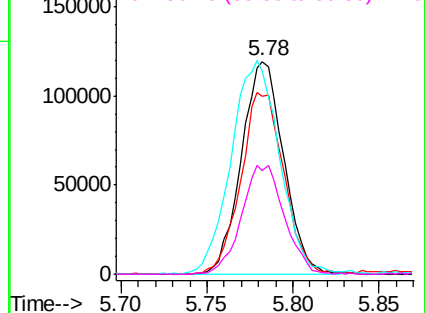


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.037 ppbv

RT: 4.63 min Scan# 526

Delta R.T. 0.01 min

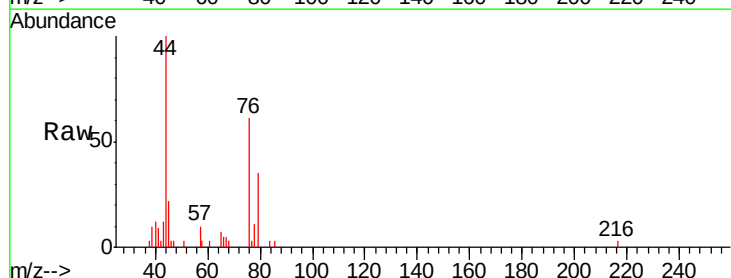
Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Tgt Ion: 76 Resp: 3686

Ion Ratio Lower Upper

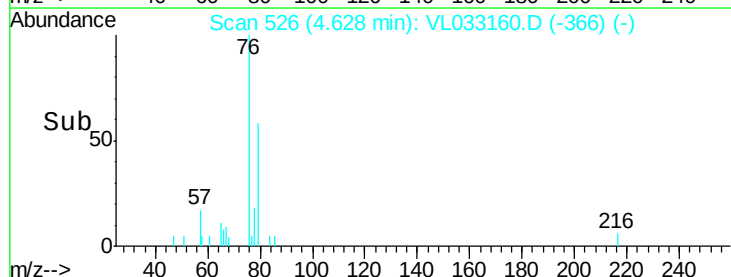
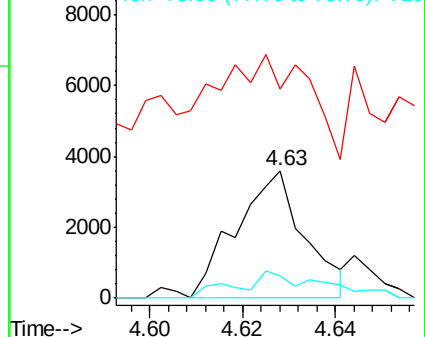
76	100		
44	160.7	17.1	25.7#
78	26.0	7.2	10.8#

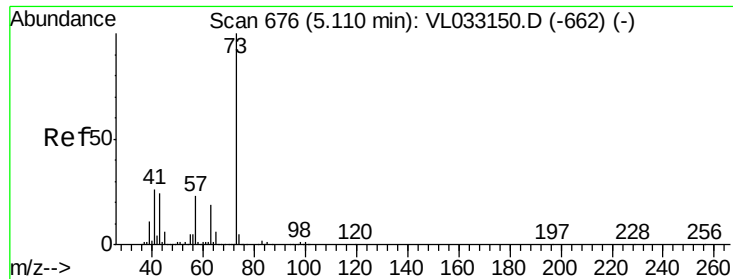


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



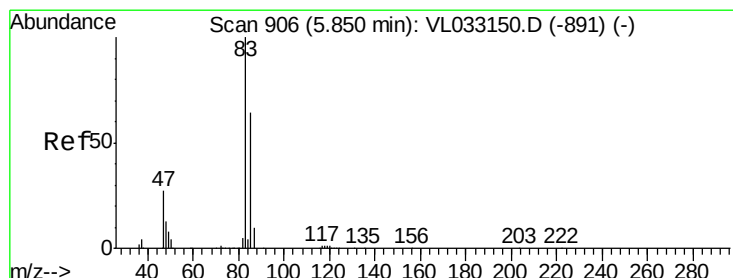
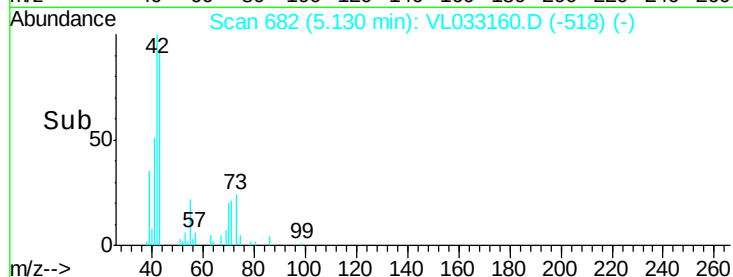
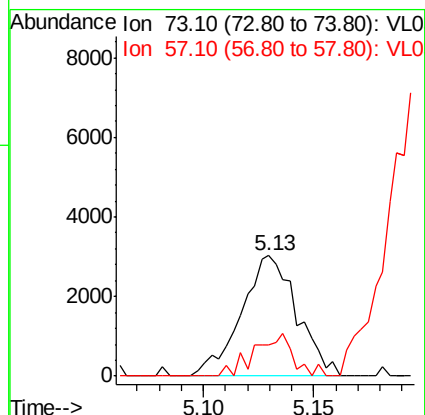
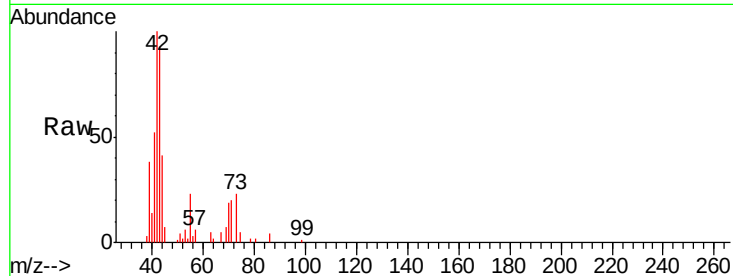


#28

Methyl tert-Butyl Ether
 Concen: 0.032 ppbv
 RT: 5.13 min Scan# 682
 Delta R.T. 0.03 min
 Lab File: VL033160.D
 Acq: 4 Feb 2019 18:34

Instrument :
 MSVOA_L
 ClientSampleId :
 S-01

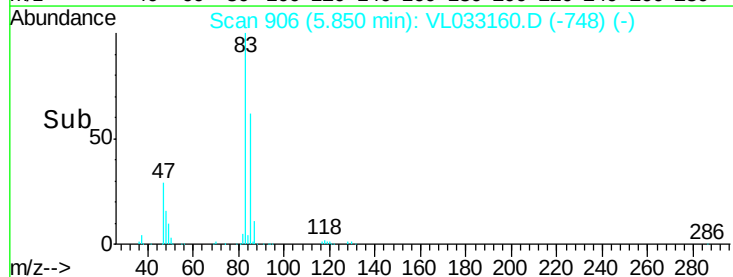
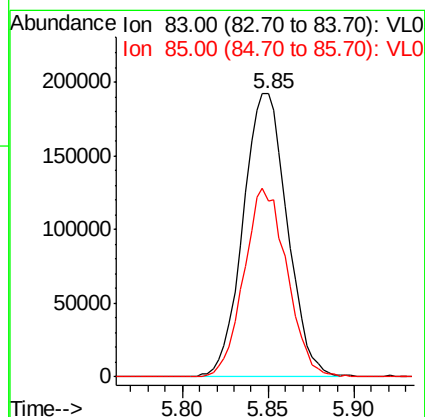
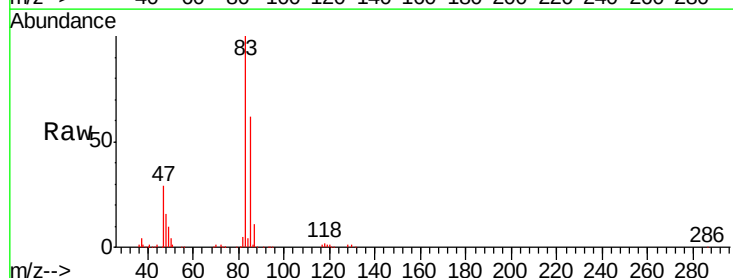
Tgt Ion: 73 Resp: 5321
 Ion Ratio Lower Upper
 73 100
 57 23.5 18.3 27.5

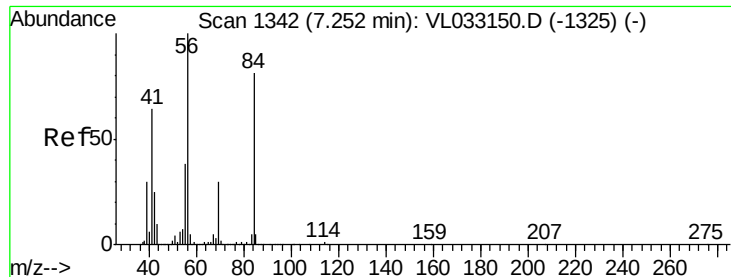


#29

Chloroform
 Concen: 1.971 ppbv
 RT: 5.85 min Scan# 906
 Delta R.T. 0.01 min
 Lab File: VL033160.D
 Acq: 4 Feb 2019 18:34

Tgt Ion: 83 Resp: 341459
 Ion Ratio Lower Upper
 83 100
 85 62.1 51.6 77.4

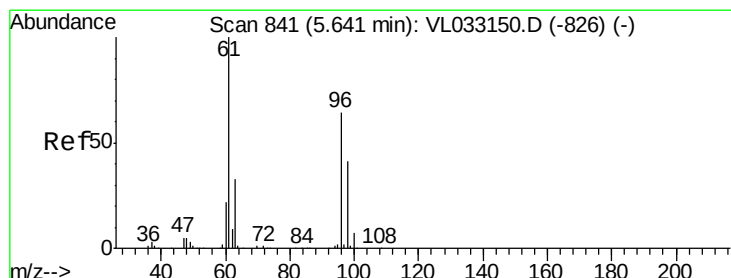
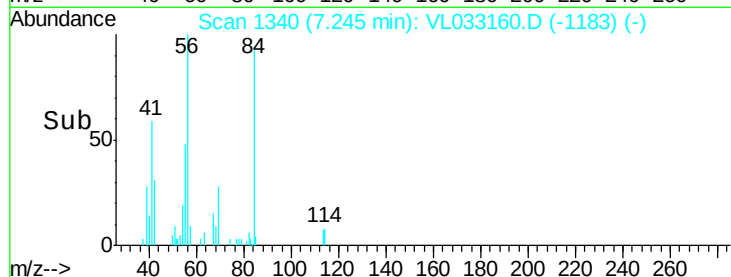
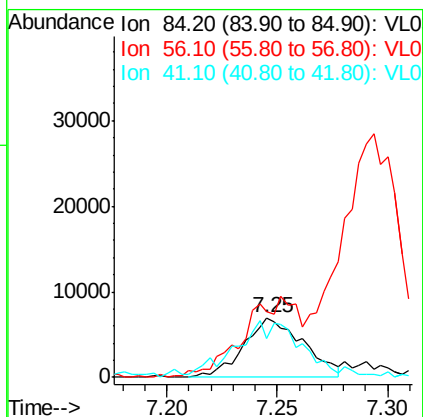
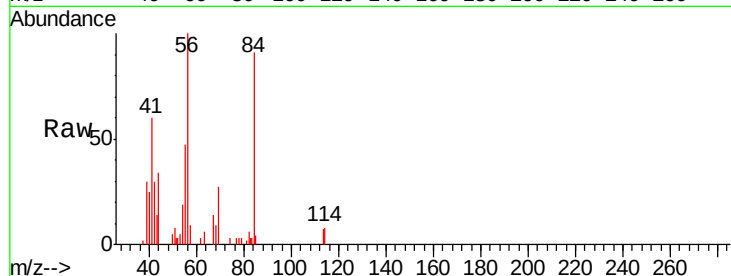




#30
Cyclohexane
Concen: 0.118 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

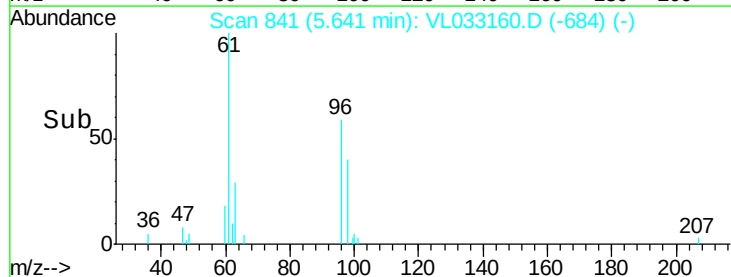
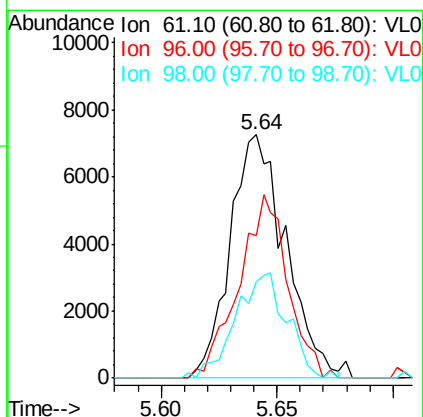
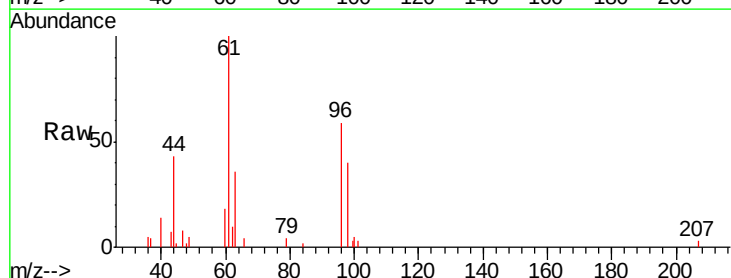
Instrument :
MSVOA_L
ClientSampled :
S-01

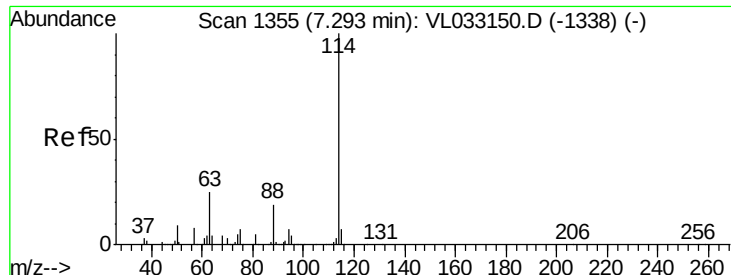
Tgt Ion: 84 Resp: 12940
Ion Ratio Lower Upper
84 100
56 0.0 109.0 163.4#
41 112.8 65.3 97.9#



#31
cis-1,2-Dichloroethene
Concen: 0.110 ppbv
RT: 5.64 min Scan# 841
Delta R.T. 0.00 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

Tgt Ion: 61 Resp: 11977
Ion Ratio Lower Upper
61 100
96 58.6 53.3 79.9
98 39.7 33.7 50.5

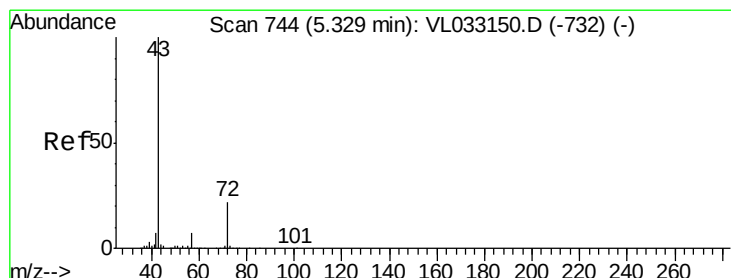
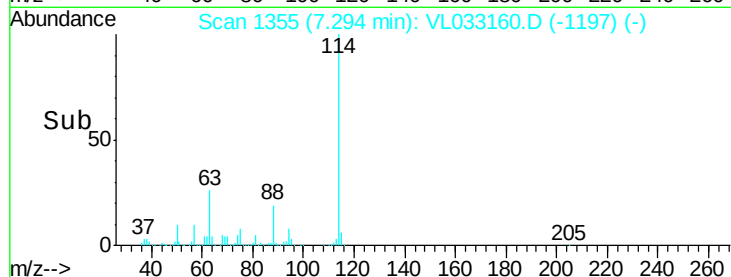
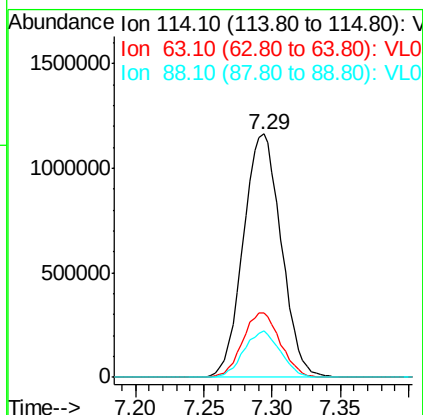
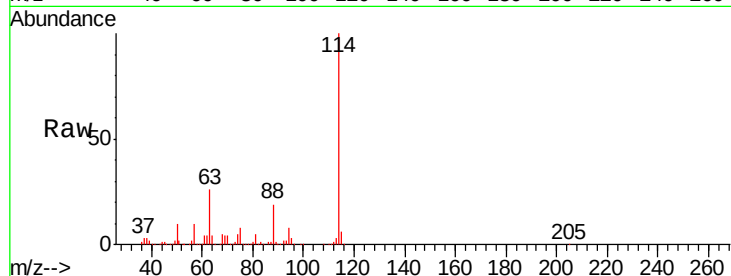




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. 0.01 min
 Lab File: VL033160.D
 Acq: 4 Feb 2019 18:34

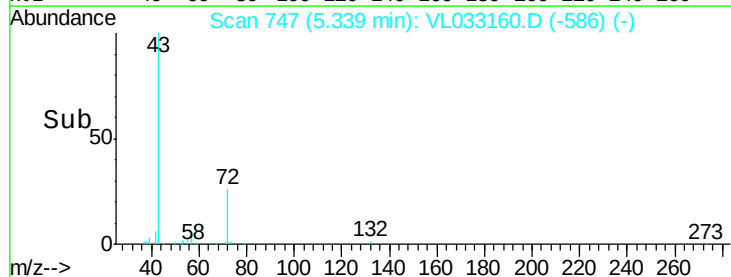
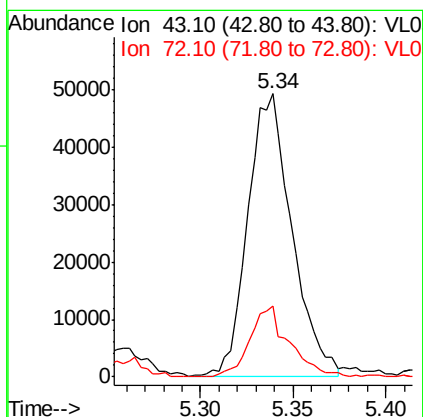
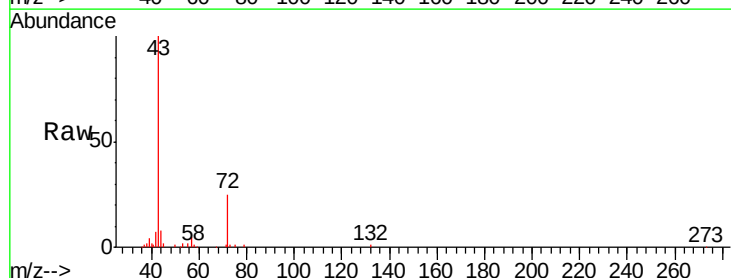
Instrument :
 MSVOA_L
 ClientSampleId :
 S-01

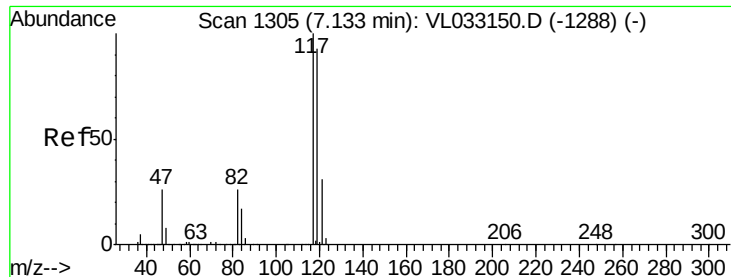
Tgt Ion:114 Resp: 2247447
 Ion Ratio Lower Upper
 114 100
 63 26.5 20.0 30.0
 88 18.4 14.4 21.6



#34
 2-Butanone
 Concen: 0.581 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.02 min
 Lab File: VL033160.D
 Acq: 4 Feb 2019 18:34

Tgt Ion: 43 Resp: 82084
 Ion Ratio Lower Upper
 43 100
 72 22.5 17.9 26.9





#35

Carbon Tetrachloride

Concen: 0.048 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. 0.01 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

ClientSampleId :

S-01

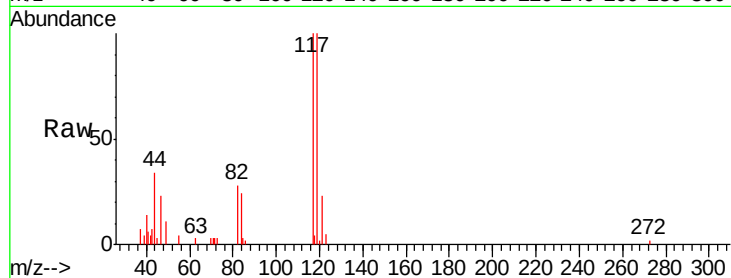
Tgt Ion:117 Resp: 6879

Ion Ratio Lower Upper

117 100

119 86.9 76.6 114.8

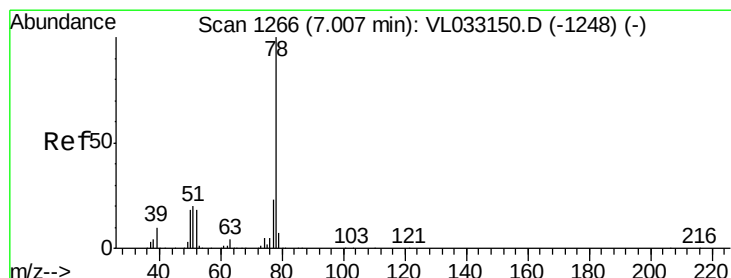
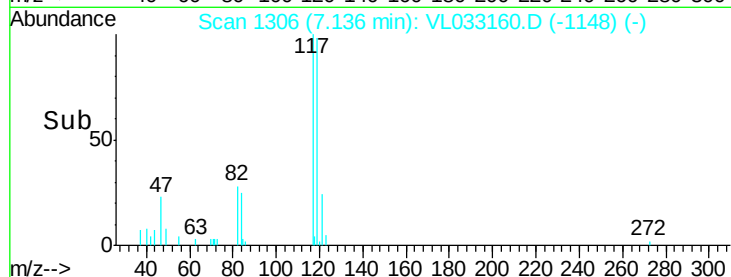
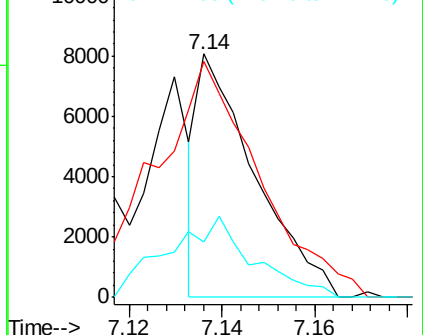
121 22.6 25.0 37.4#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.360 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

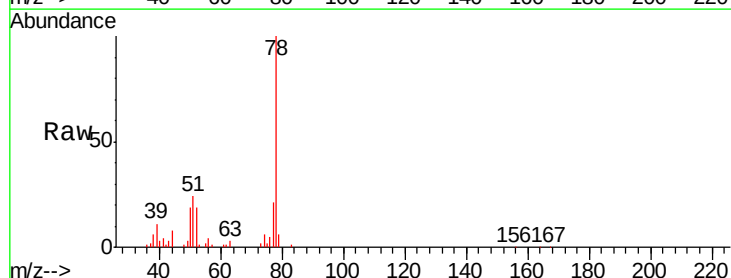
Tgt Ion: 78 Resp: 81859

Ion Ratio Lower Upper

78 100

77 20.7 17.8 26.6

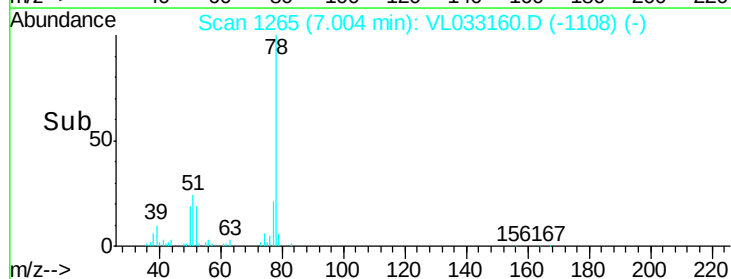
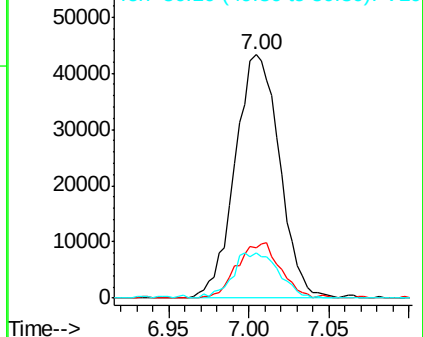
50 18.6 14.7 22.1

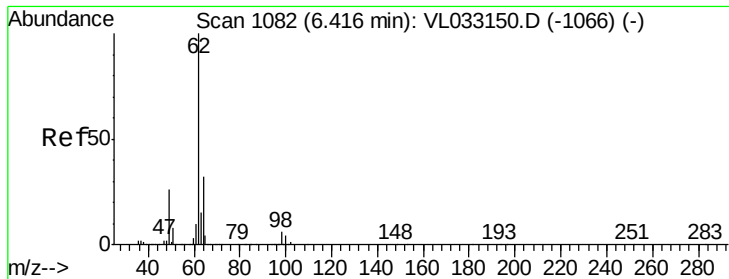


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

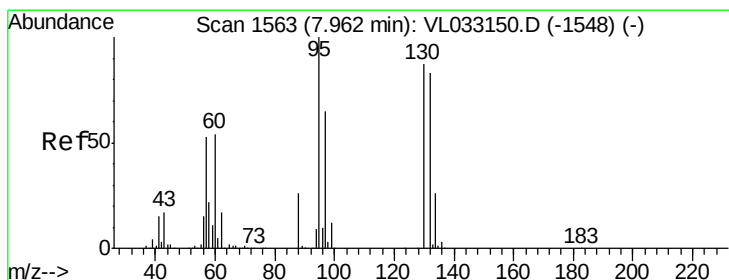
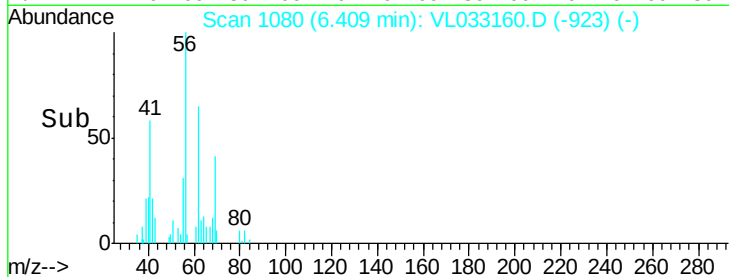
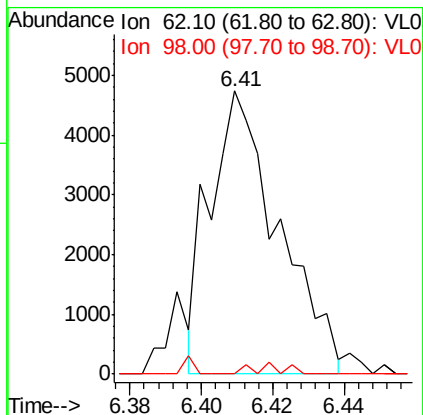
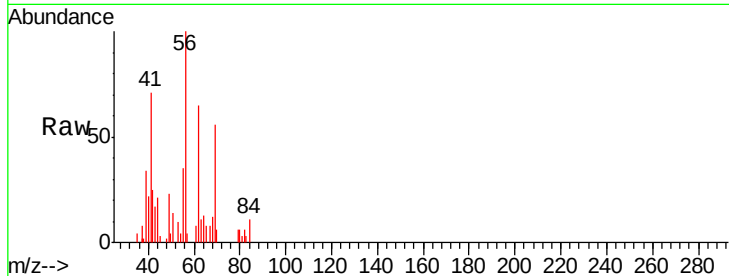




#37
 1,2-Dichloroethane
 Concen: 0.055 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. 0.00 min
 Lab File: VL033160.D
 Acq: 4 Feb 2019 18:34

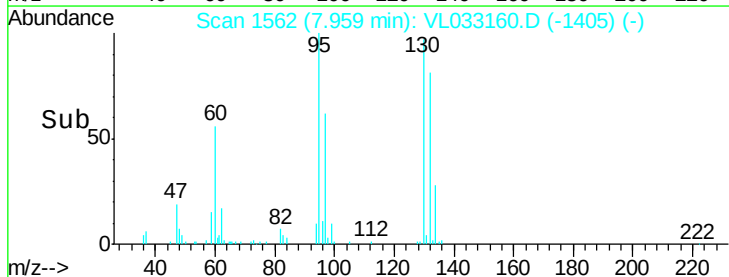
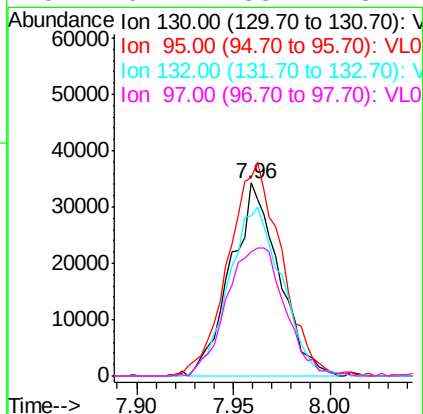
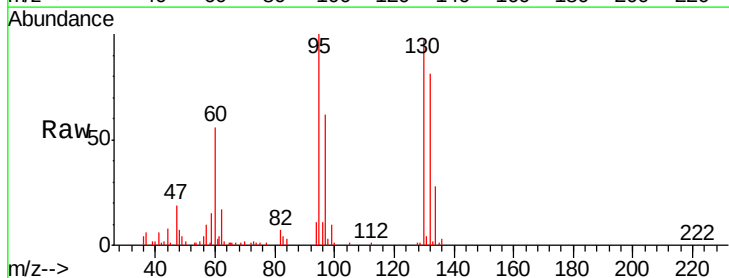
Instrument :
 MSVOA_L
 ClientSampled :
 S-01

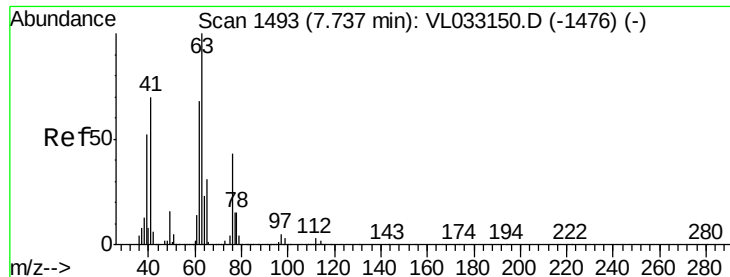
Tgt Ion: 62 Resp: 6340
 Ion Ratio Lower Upper
 62 100
 98 0.0 5.3 7.9#



#38
 Trichloroethene
 Concen: 0.720 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. 0.00 min
 Lab File: VL033160.D
 Acq: 4 Feb 2019 18:34

Tgt Ion: 130 Resp: 59408
 Ion Ratio Lower Upper
 130 100
 95 101.8 91.6 137.4
 132 82.6 79.0 118.4
 97 64.2 58.1 87.1





#39

1,2-Dichloropropane

Concen: 6.805 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.44 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

ClientSampleId :

S-01

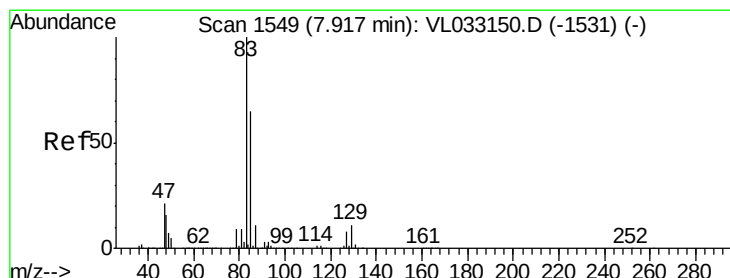
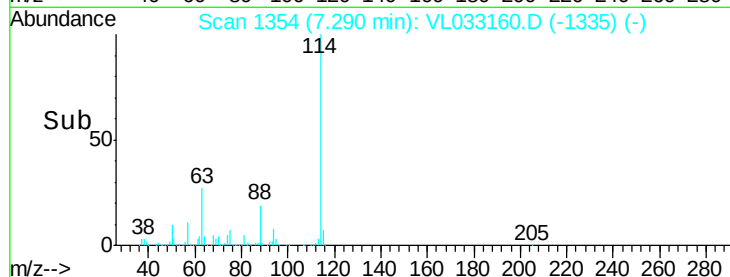
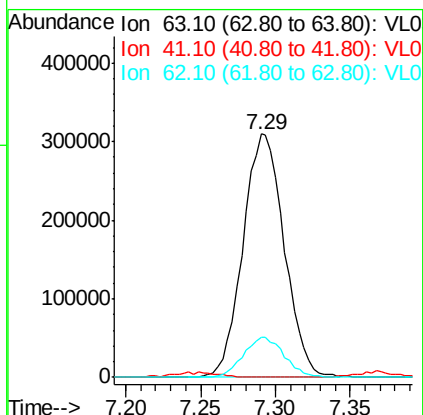
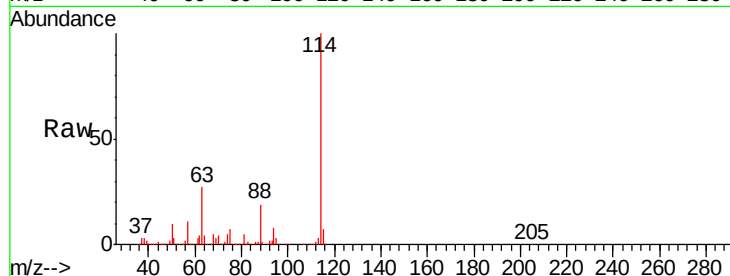
Tgt Ion: 63 Resp: 593039

Ion Ratio Lower Upper

63 100

41 0.0 53.2 79.8#

62 16.2 54.4 81.6#



#42

Bromodichloromethane

Concen: 0.050 ppbv

RT: 7.92 min Scan# 1550

Delta R.T. 0.01 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

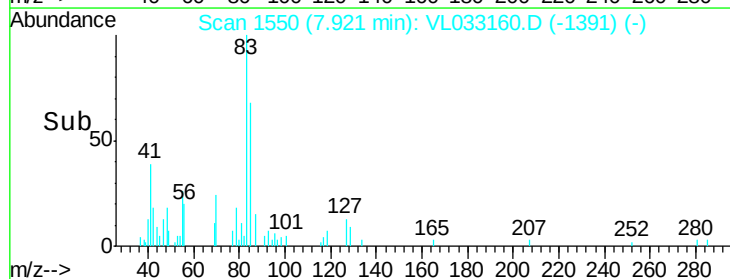
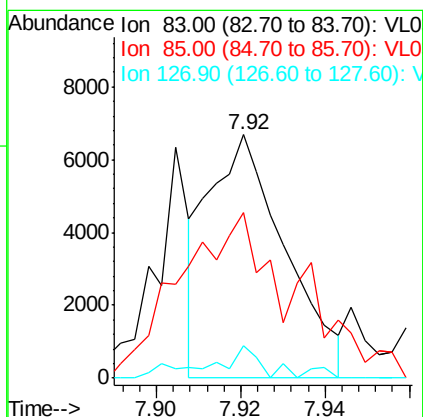
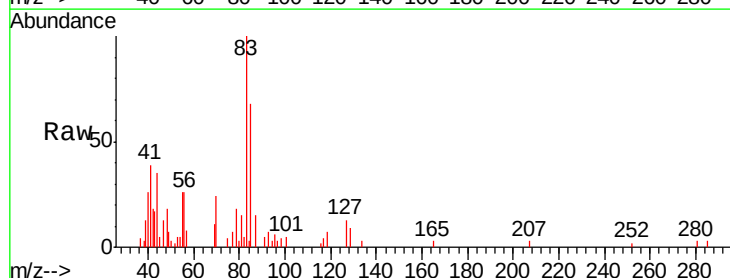
Tgt Ion: 83 Resp: 8476

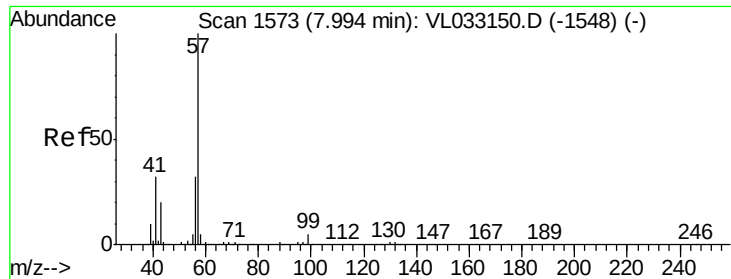
Ion Ratio Lower Upper

83 100

85 53.7 51.3 76.9

127 15.8 6.1 9.1#





#44

2,2,4-Trimethylpentane

Concen: 0.112 ppbv

RT: 7.99 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

ClientSampleId :

S-01

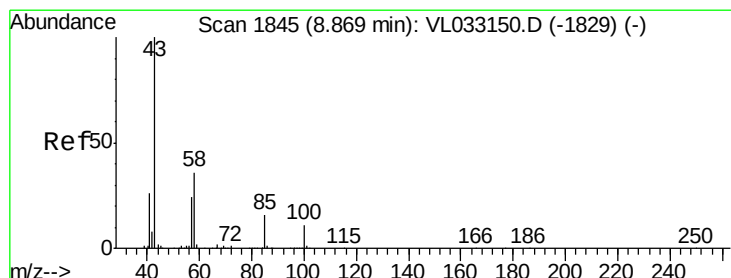
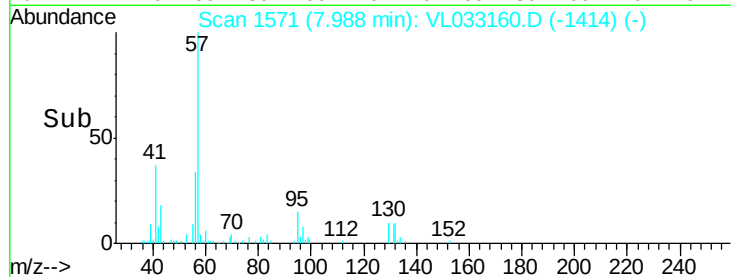
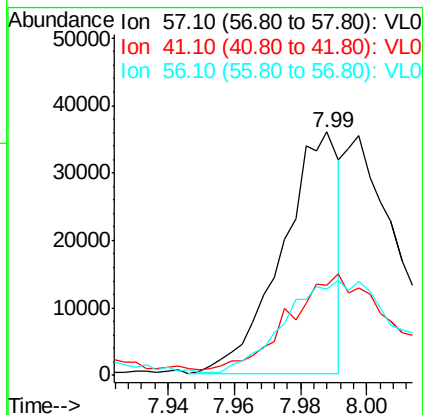
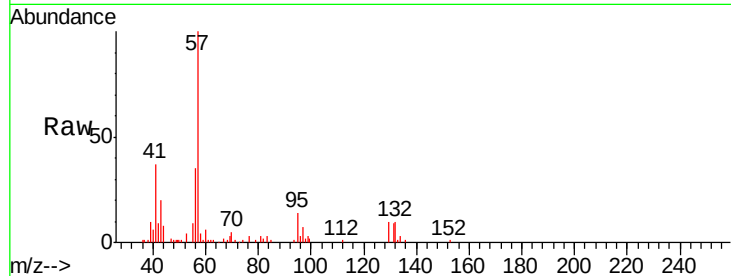
Tgt Ion: 57 Resp: 42867

Ion Ratio Lower Upper

57 100

41 79.5 24.6 36.8#

56 79.1 24.9 37.3#



#50

4-Methyl-2-Pentanone

Concen: 0.045 ppbv

RT: 8.89 min Scan# 1850

Delta R.T. 0.02 min

Lab File: VL033160.D

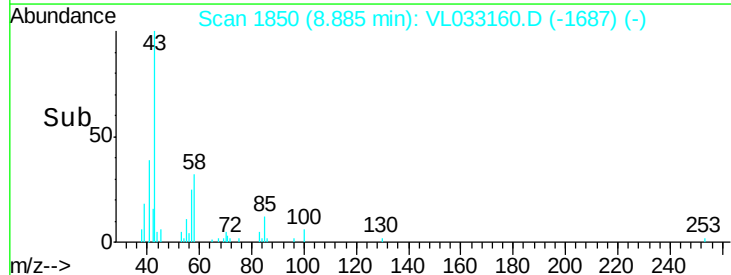
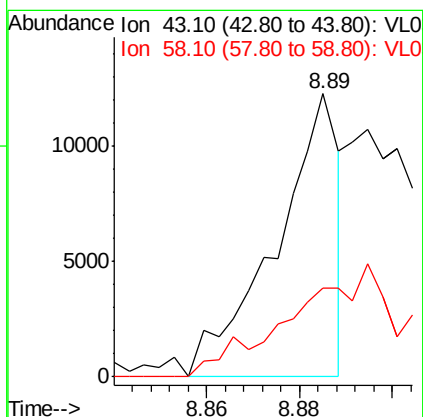
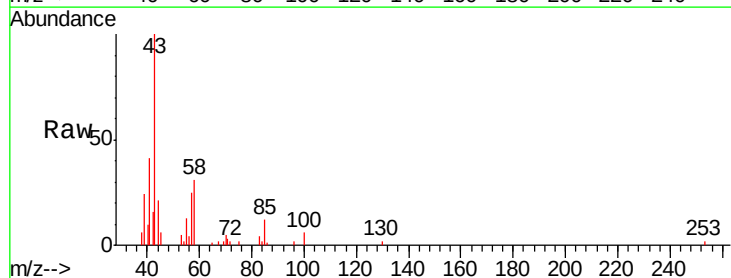
Acq: 4 Feb 2019 18:34

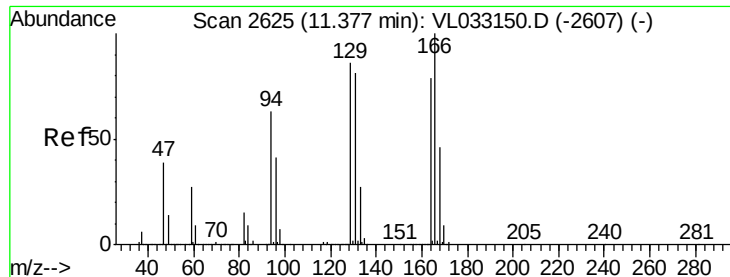
Tgt Ion: 43 Resp: 11587

Ion Ratio Lower Upper

43 100

58 0.0 28.7 43.1#





#52

Tetrachloroethene

Concen: 3.232 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. 0.01 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

ClientSampleId :

S-01

Tgt Ion: 164 Resp: 255197

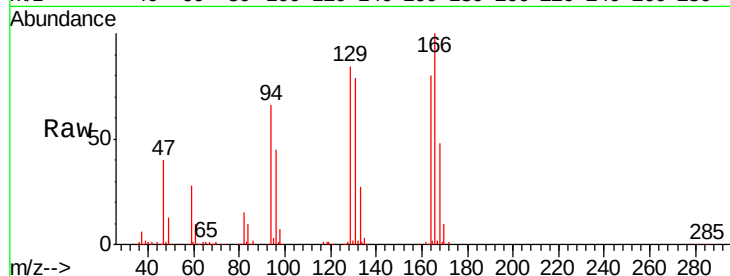
Ion Ratio Lower Upper

164 100

166 124.4 98.6 148.0

129 105.4 86.3 129.5

131 99.3 83.7 125.5

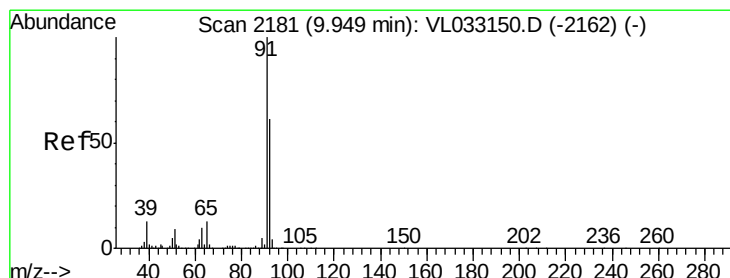
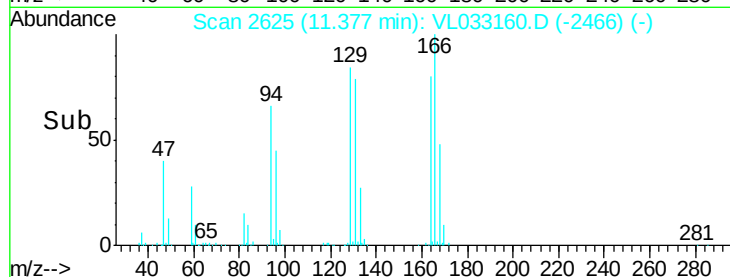
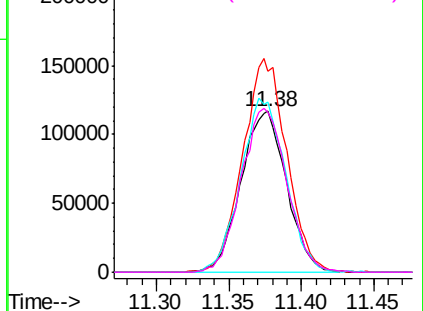


Abundance Ion 163.90 (163.60 to 164.60): V

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



#53

Toluene

Concen: 0.648 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. 0.01 min

Lab File: VL033160.D

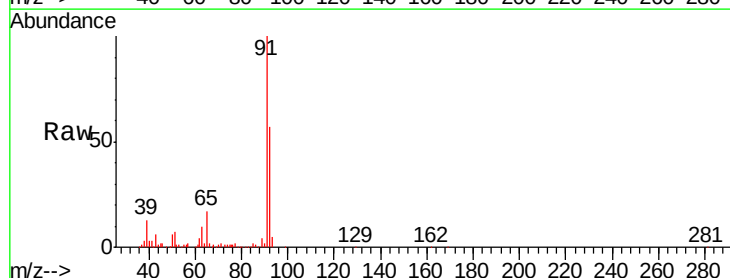
Acq: 4 Feb 2019 18:34

Tgt Ion: 91 Resp: 174849

Ion Ratio Lower Upper

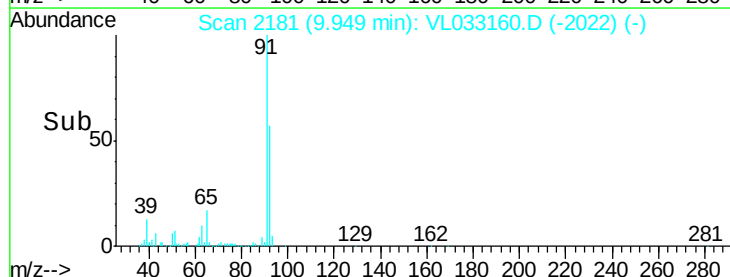
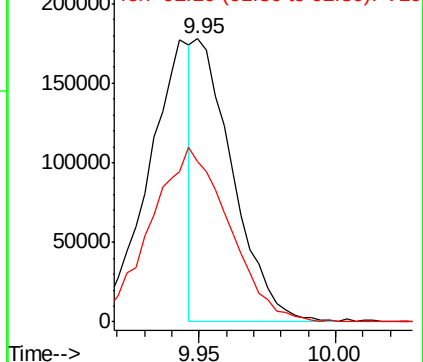
91 100

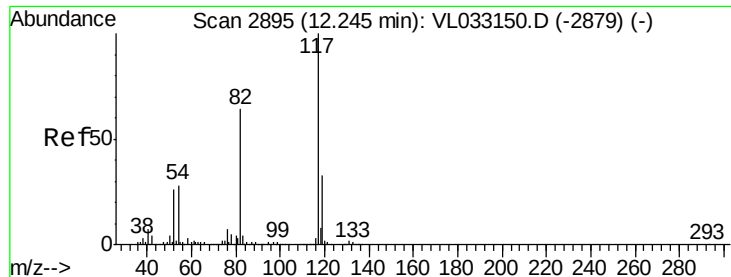
92 125.8 48.9 73.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. 0.00 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

ClientSampled :

S-01

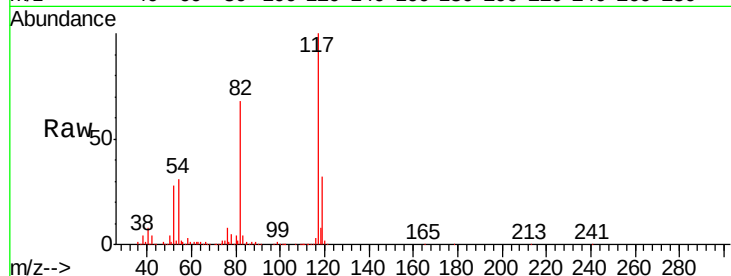
Tgt Ion:117 Resp: 2468658

Ion Ratio Lower Upper

117 100

82 67.6 49.3 73.9

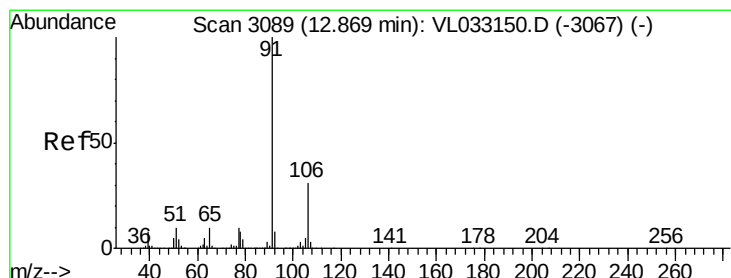
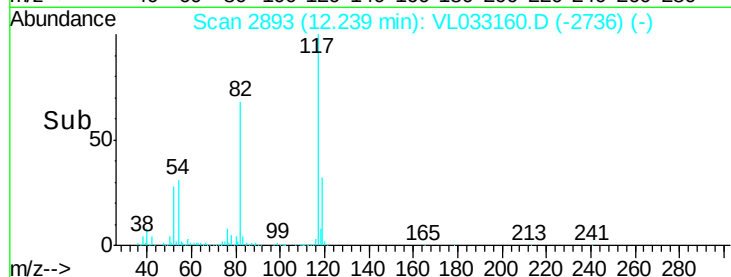
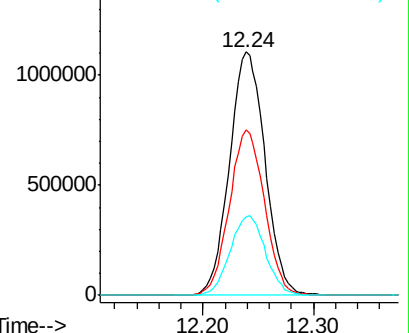
119 32.7 27.1 40.7



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



#58

Ethyl Benzene

Concen: 0.053 ppbv

RT: 12.86 min Scan# 3085

Delta R.T. -0.00 min

Lab File: VL033160.D

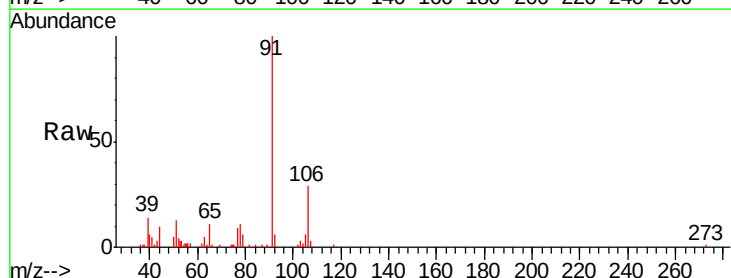
Acq: 4 Feb 2019 18:34

Tgt Ion: 91 Resp: 20607

Ion Ratio Lower Upper

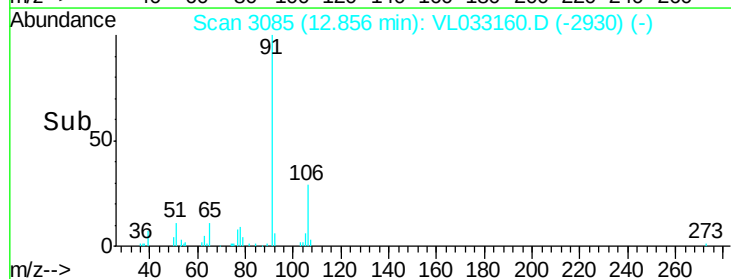
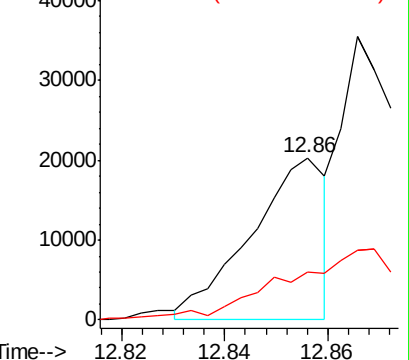
91 100

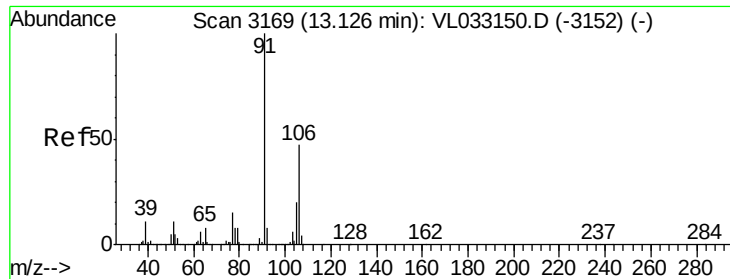
106 27.2 24.7 37.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.112 ppbv

RT: 13.12 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

ClientSampled :

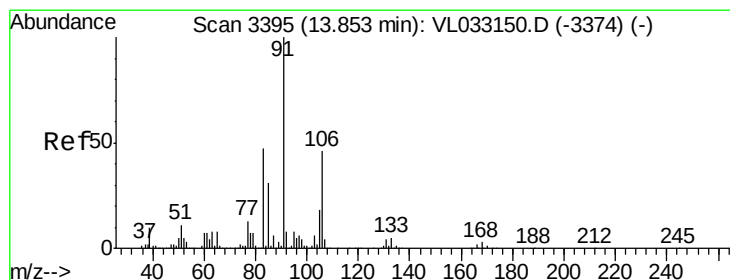
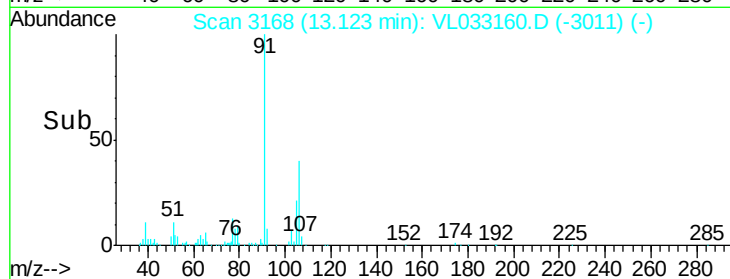
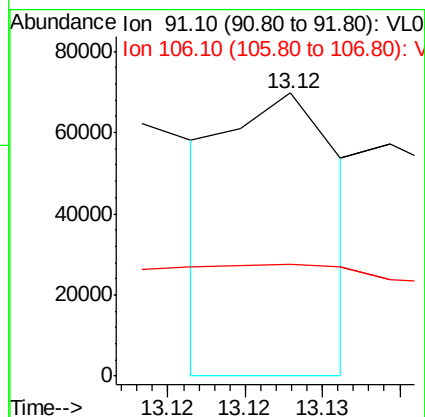
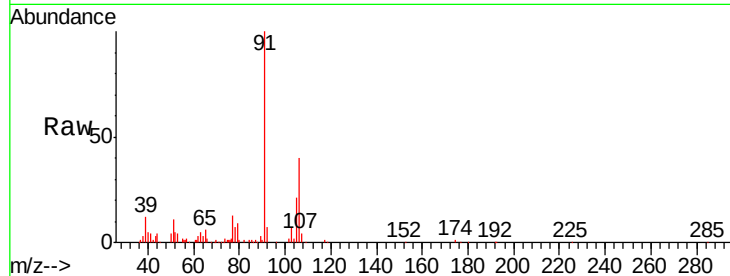
S-01

Tgt Ion: 91 Resp: 35526

Ion Ratio Lower Upper

91 100

106 0.0 37.6 56.4#



#60

o-Xylene

Concen: 0.285 ppbv

RT: 13.85 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VL033160.D

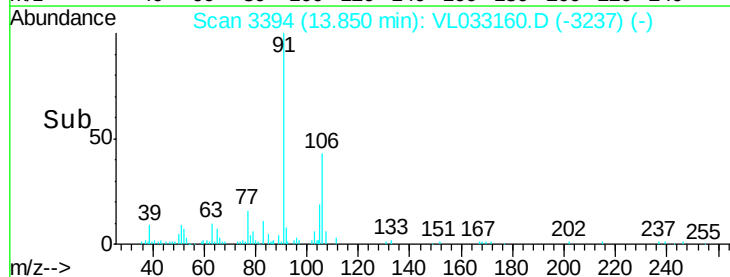
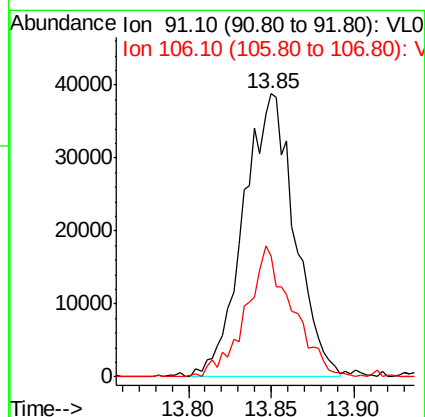
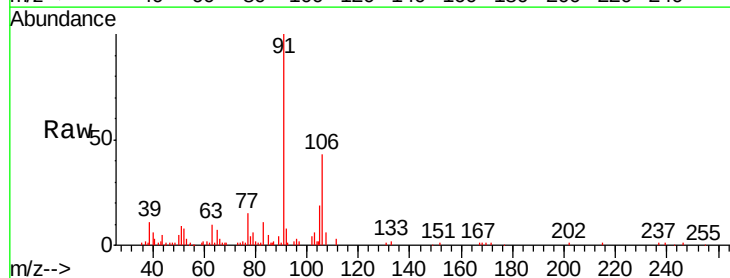
Acq: 4 Feb 2019 18:34

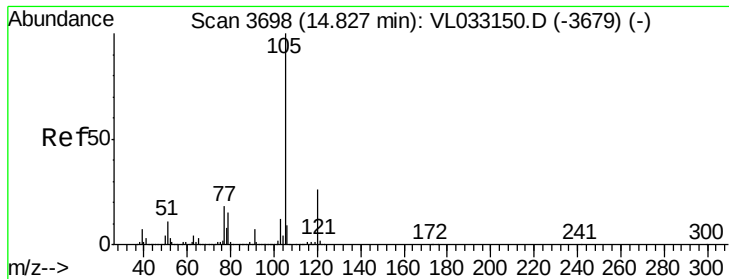
Tgt Ion: 91 Resp: 83683

Ion Ratio Lower Upper

91 100

106 42.0 23.2 69.5





#62

Isopropylbenzene

Concen: 0.065 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. 0.00 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

ClientSampleId :

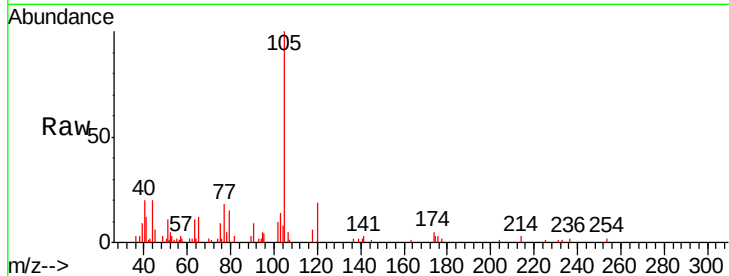
S-01

Tgt Ion:105 Resp: 27276

Ion Ratio Lower Upper

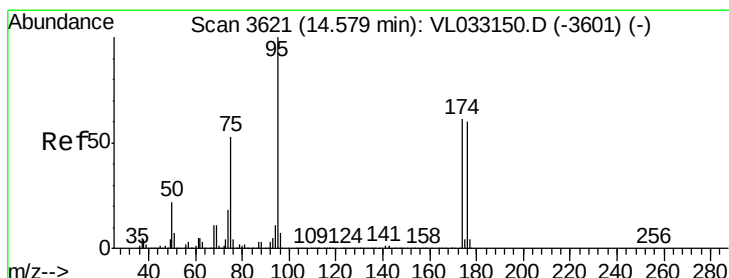
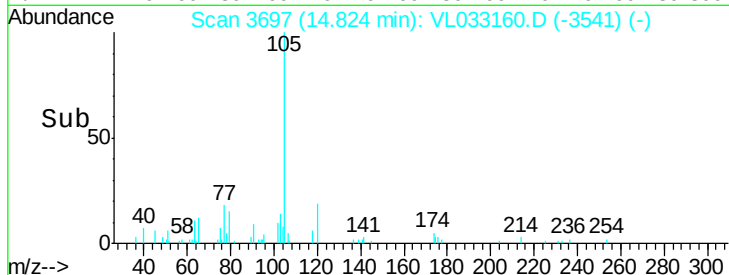
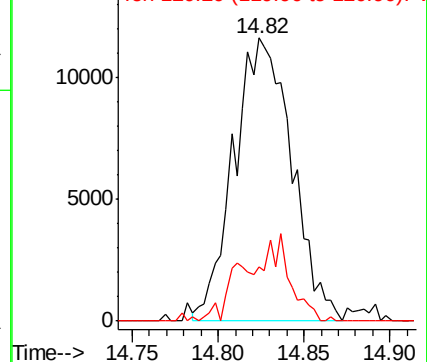
105 100

120 23.6 20.8 31.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 15.048 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. 0.01 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

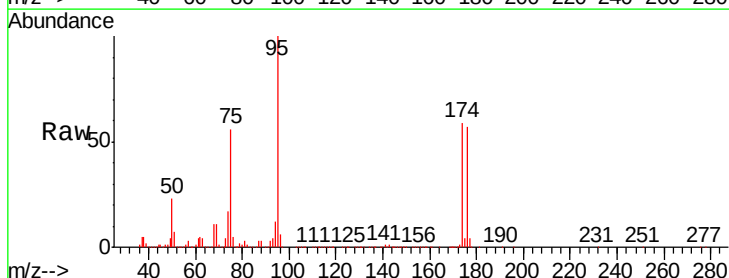
Tgt Ion: 95 Resp: 2768494

Ion Ratio Lower Upper

95 100

174 59.1 49.2 73.8

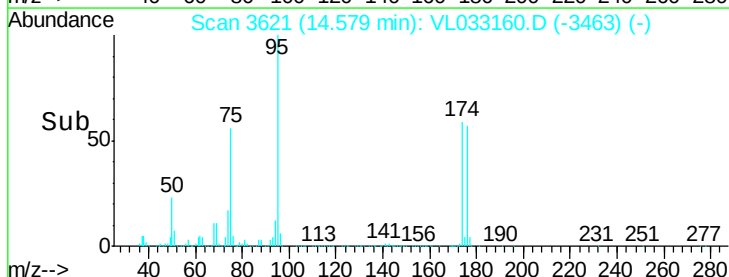
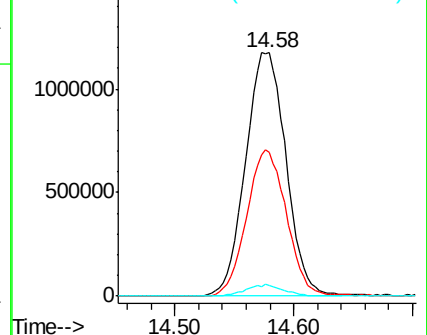
175 4.3 3.7 5.5

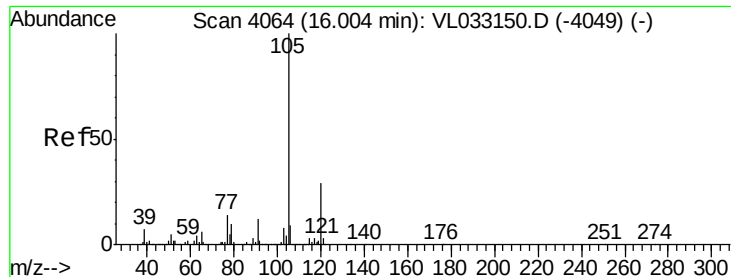


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#72

4-Ethyltoluene

Concen: 0.047 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. 0.01 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

ClientSampleId :

S-01

Tgt Ion:105 Resp: 16435

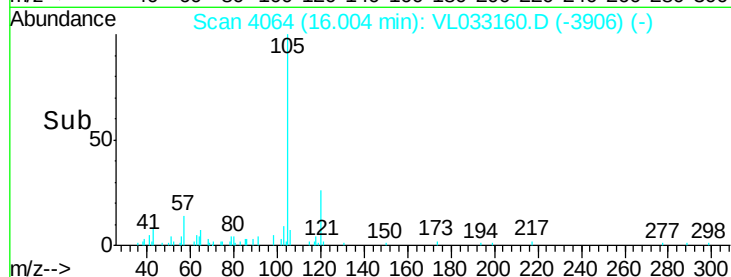
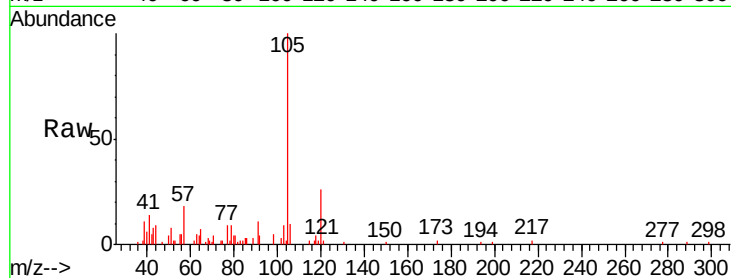
Ion Ratio Lower Upper

105 100

120 75.8 23.2 34.8#

91 0.0 9.5 14.3#

77 35.5 10.2 15.4#

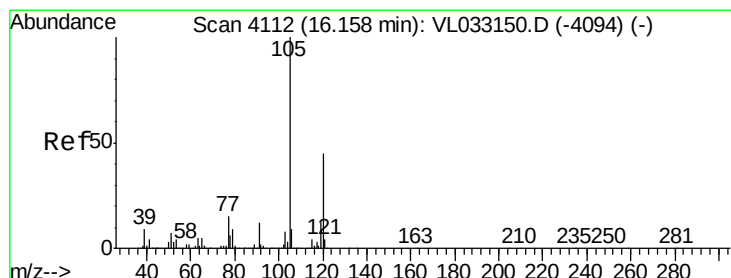
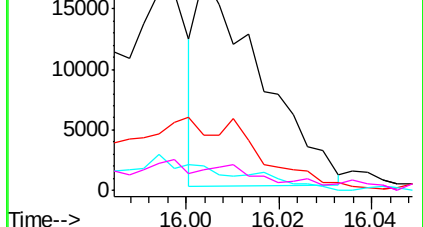


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.060 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. 0.01 min

Lab File: VL033160.D

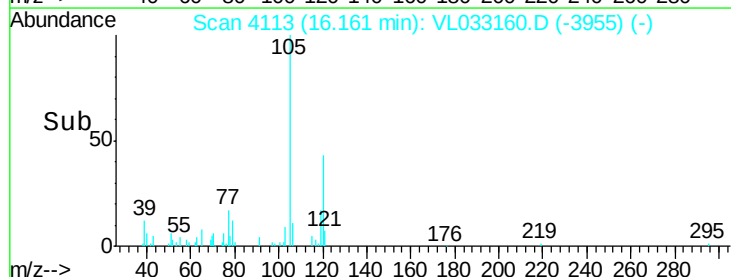
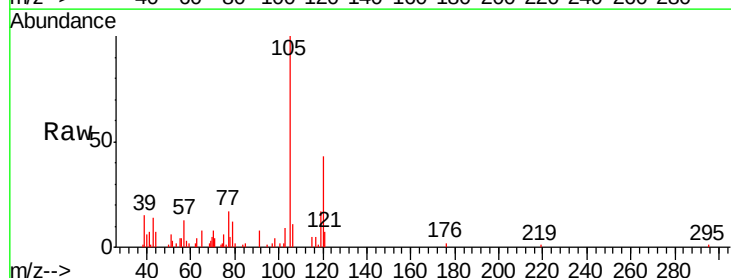
Acq: 4 Feb 2019 18:34

Tgt Ion:105 Resp: 20375

Ion Ratio Lower Upper

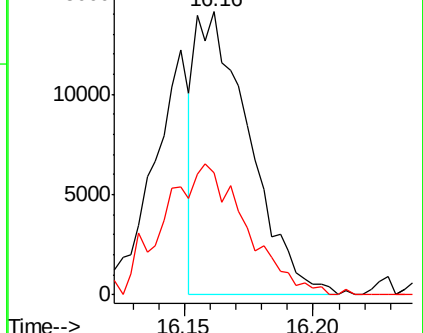
105 100

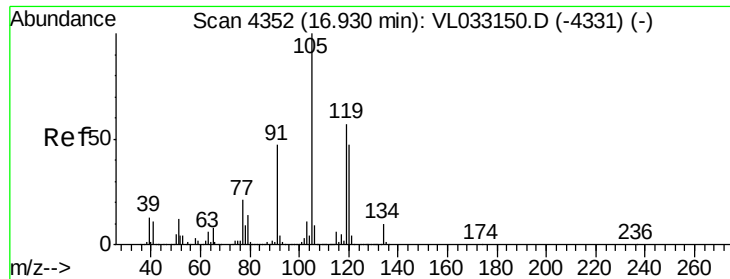
120 49.5 38.0 57.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

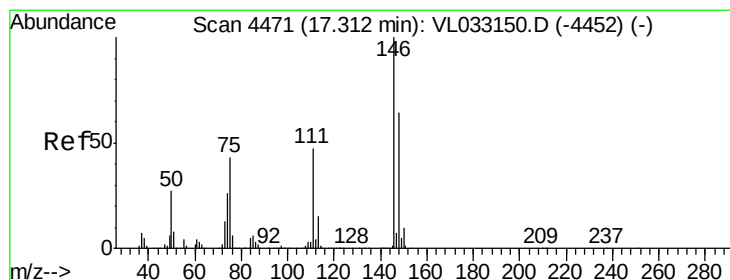
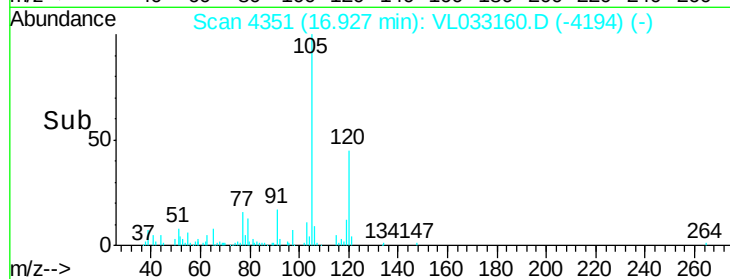
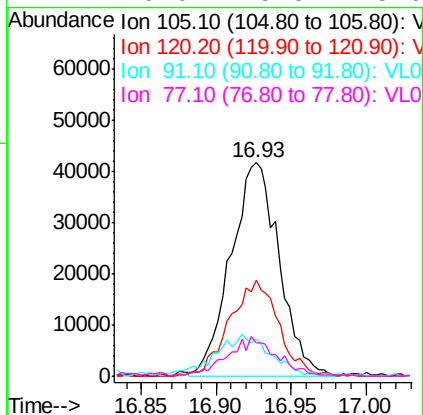
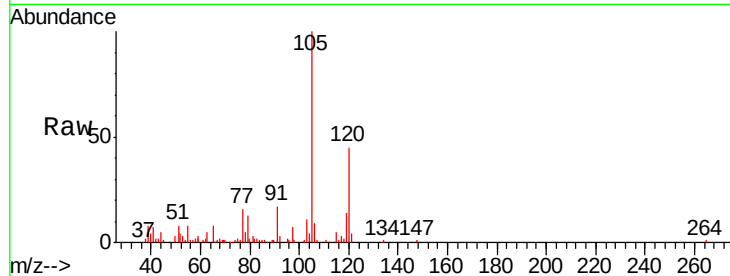




#74
 1,2,4-Trimethylbenzene
 Concen: 0.271 ppbv
 RT: 16.93 min Scan# 4351
 Delta R.T. 0.00 min
 Lab File: VL033160.D
 Acq: 4 Feb 2019 18:34

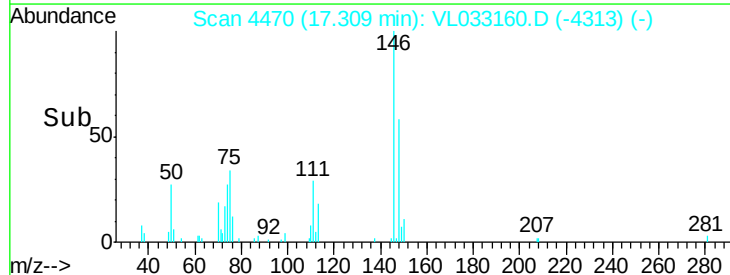
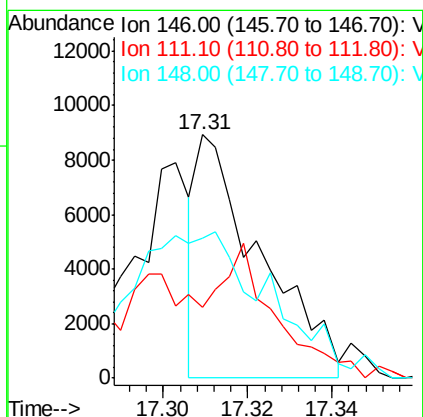
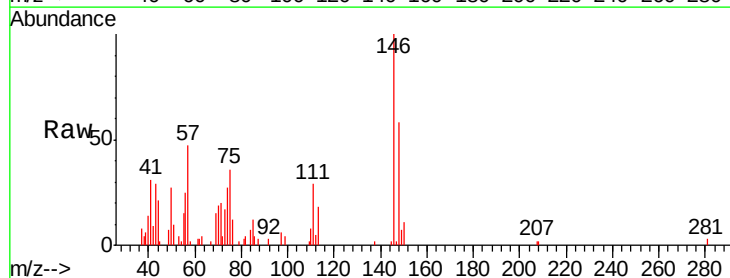
Instrument :
 MSVOA_L
 ClientSampleId :
 S-01

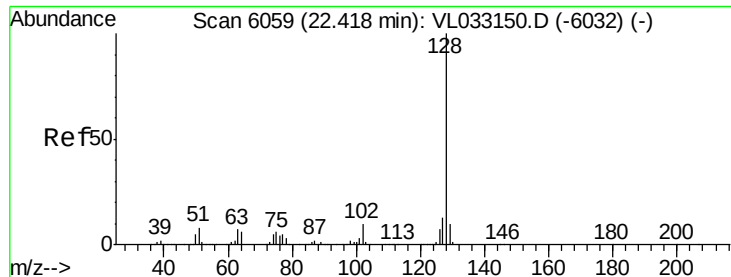
Tgt Ion:	105	Resp:	93532
Ion	Ratio	Lower	Upper
105	100		
120	45.1	38.2	57.4
91	16.4	35.0	52.4#
77	15.0	15.8	23.6#



#76
 1,4-Dichlorobenzene
 Concen: 0.049 ppbv
 RT: 17.31 min Scan# 4470
 Delta R.T. 0.00 min
 Lab File: VL033160.D
 Acq: 4 Feb 2019 18:34

Tgt Ion:	146	Resp:	9329
Ion	Ratio	Lower	Upper
146	100		
111	113.2	23.4	70.0#
148	136.0	31.9	95.9#

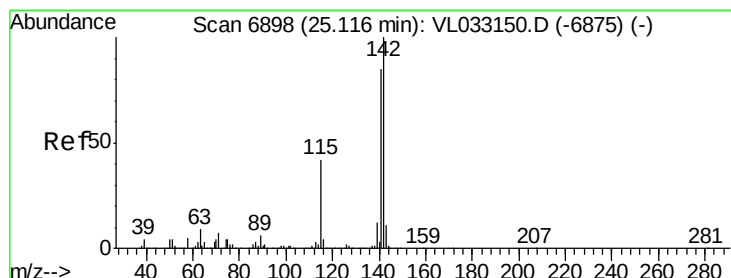
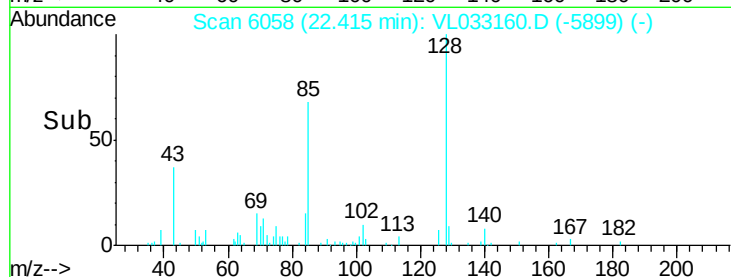
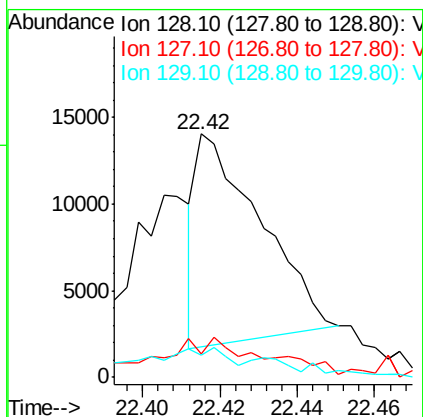
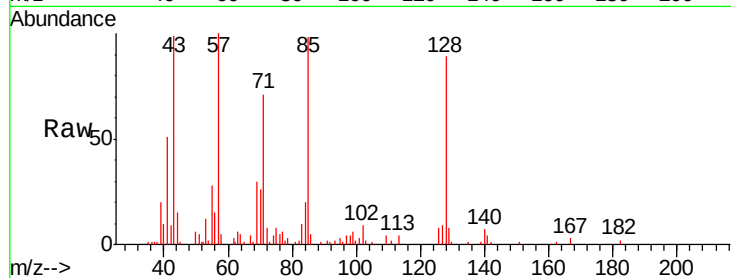




#79
Naphthalene
Concen: 0.034 ppbv
RT: 22.42 min Scan# 6058
Delta R.T. 0.01 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

Instrument :
MSVOA_L
ClientSampled :
S-01

Tgt Ion:128 Resp: 13913
Ion Ratio Lower Upper
128 100
127 10.4 10.6 16.0#
129 9.5 9.0 13.4



#80
Naphthalene, 2-methyl-
Concen: 0.053 ppbv
RT: 25.12 min Scan# 6900
Delta R.T. 0.02 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

Tgt Ion:142 Resp: 10930
Ion Ratio Lower Upper
142 100
141 94.1 66.5 99.7
115 48.1 31.3 46.9#

