

Data File : VL033865.D
Acq On : 30 May 2019 10:58
Operator : SY/AP
Sample : K3007-02DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSG-2DL

Quant Time: May 31 07:06:16 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	794811	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1925383	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	1975741	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.56	95	1578313	9.85	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%

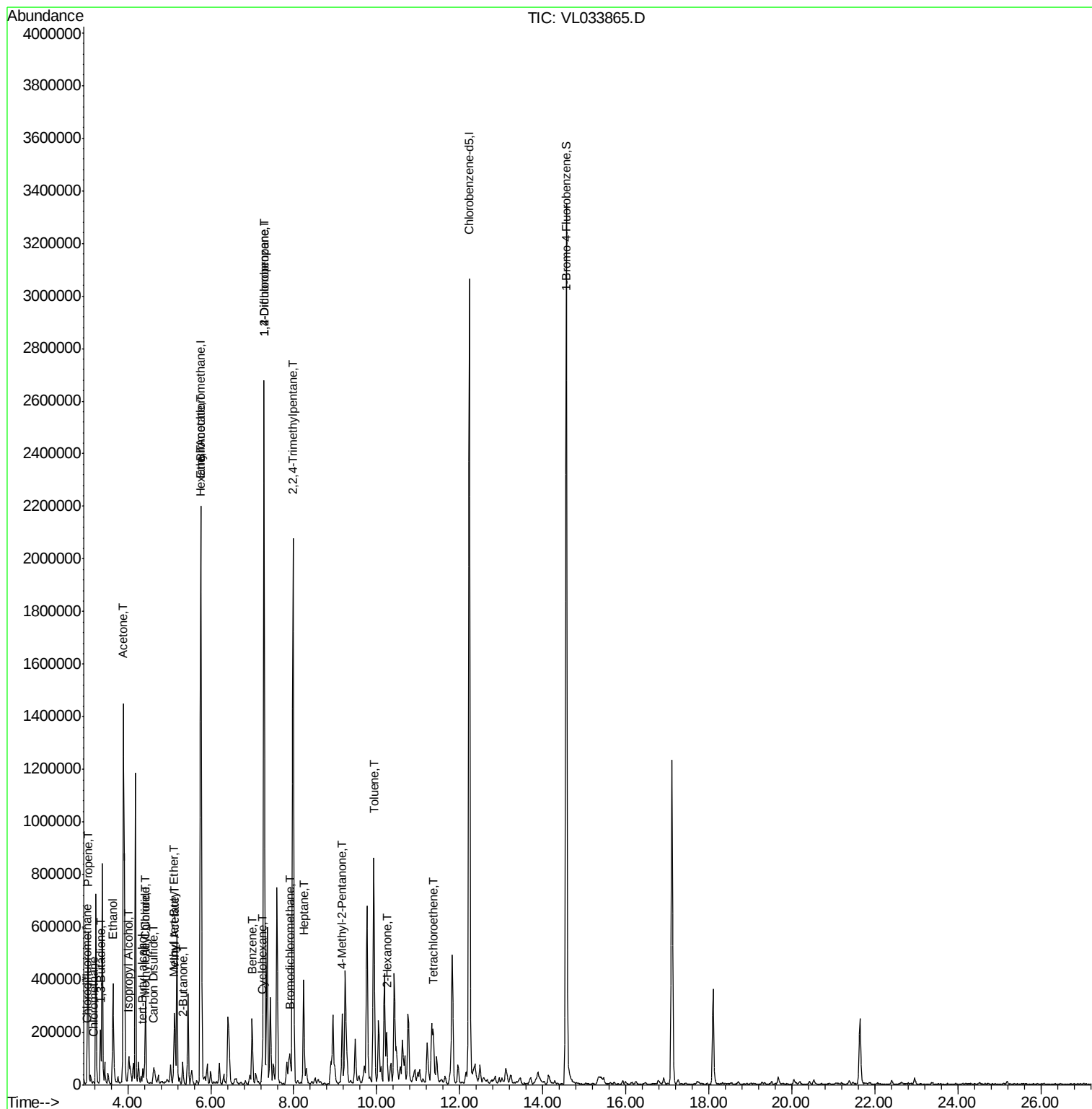
Target Compounds						Qvalue
3) Chlorodifluoromethane	3.01	51	6290	0.069	ppbv #	88
4) Chloromethane	3.17	50	2291	0.044	ppbv #	81
9) Propene	3.04	41	197522	5.101	ppbv	83
10) Heptane	8.24	43	153197	1.397	ppbv	97
13) Ethanol	3.64	45	408422	32.632	ppbv	99
15) Acetone	3.89	43	1614767	14.643	ppbv	97
16) 1,3-Butadiene	3.36	39	20350	0.463	ppbv #	37
17) tert-Butyl alcohol	4.36	59	25025	0.281	ppbv #	72
19) Isopropyl Alcohol	4.02	45	108299	1.523	ppbv #	1
20) Methylene Chloride	4.40	84	6241	0.147	ppbv #	82
21) Allyl Chloride	4.43	41	41554	0.604	ppbv #	38
23) Vinyl Acetate	5.14	43	47680	0.328	ppbv #	1
25) Ethyl Acetate	5.77	43	277661	1.433	ppbv #	77
26) Hexane	5.77	57	410729	4.932	ppbv #	40
27) Carbon Disulfide	4.62	76	35906	0.314	ppbv #	92
28) Methyl tert-Butyl Ether	5.11	73	83250	0.613	ppbv	97
30) Cyclohexane	7.24	84	22060	0.315	ppbv	92
34) 2-Butanone	5.32	43	88564	0.742	ppbv	99
36) Benzene	6.99	78	176804	1.009	ppbv	98
39) 1,2-Dichloropropane	7.28	63	475430	7.281	ppbv #	23
42) Bromodichloromethane	7.90	83	5977	0.039	ppbv #	27
44) 2,2,4-Trimethylpentane	7.98	57	1989863	6.722	ppbv	97
50) 4-Methyl-2-Pentanone	9.16	43	104557	0.570	ppbv #	50
51) 2-Hexanone	10.24	43	93422	0.652	ppbv #	31
52) Tetrachloroethene	11.36	164	23799	0.387	ppbv	99
53) Toluene	9.94	91	154621	0.819	ppbv	99

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033865.D

Acq: 30 May 2019 10:58

Instrument :

MSVOA_L

ClientSampleId :

SSG-2DL

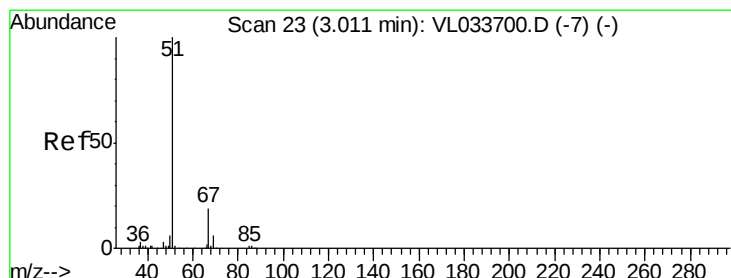
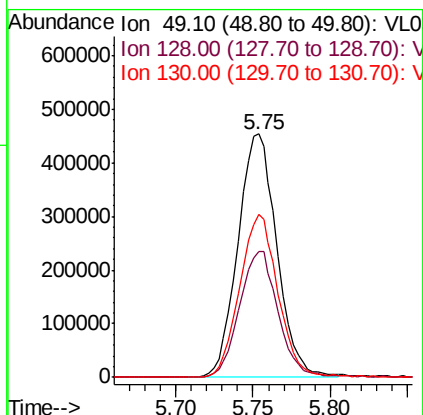
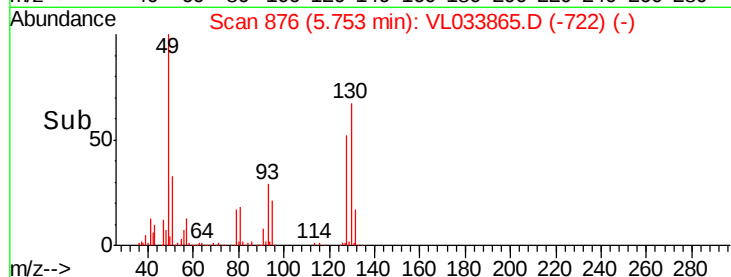
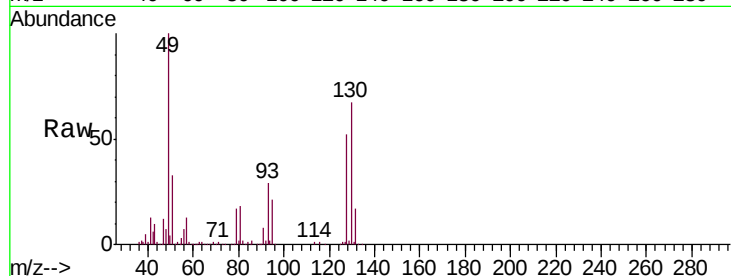
Tgt Ion: 49 Resp: 794811

Ion Ratio Lower Upper

49 100

128 51.8 25.2 75.6

130 66.2 32.5 97.5



#3

Chlorodifluoromethane

Concen: 0.069 ppbv

RT: 3.01 min Scan# 22

Delta R.T. -0.00 min

Lab File: VL033865.D

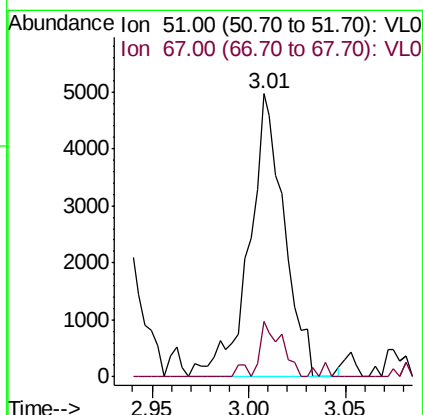
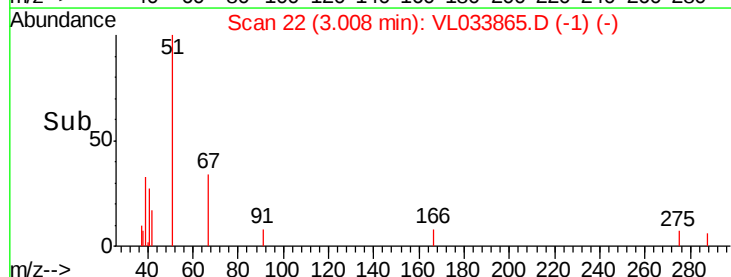
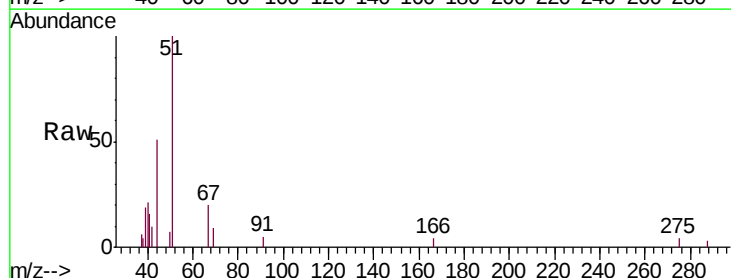
Acq: 30 May 2019 10:58

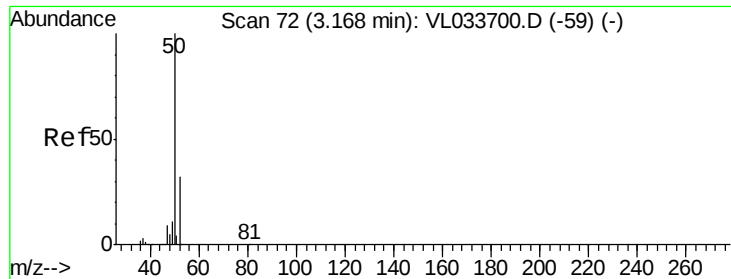
Tgt Ion: 51 Resp: 6290

Ion Ratio Lower Upper

51 100

67 13.8 15.6 23.4#





#4

Chloromethane

Concen: 0.044 ppbv

RT: 3.17 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL033865.D

Acq: 30 May 2019 10:58

Instrument :

MSVOA_L

ClientSampleId :

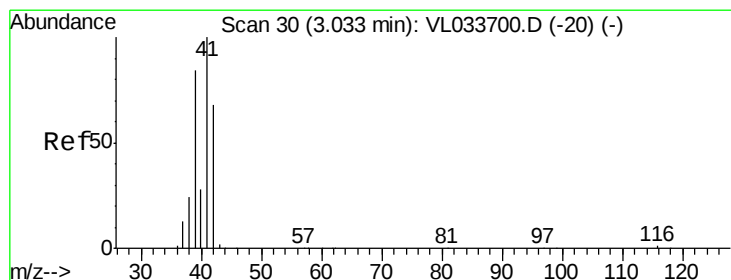
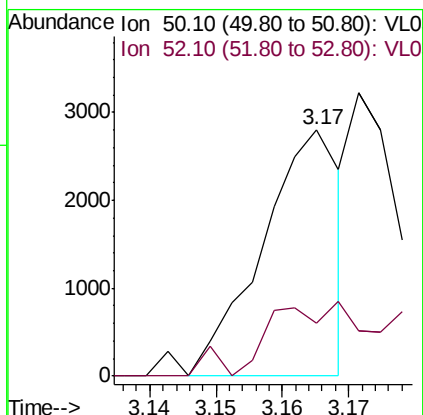
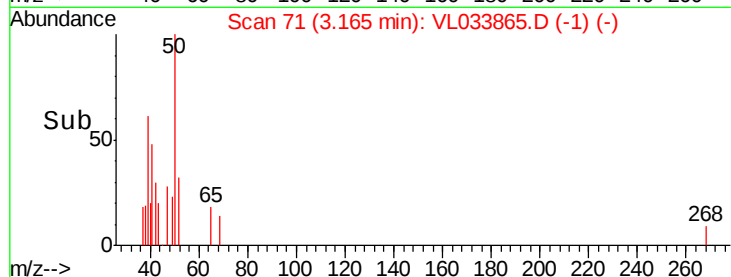
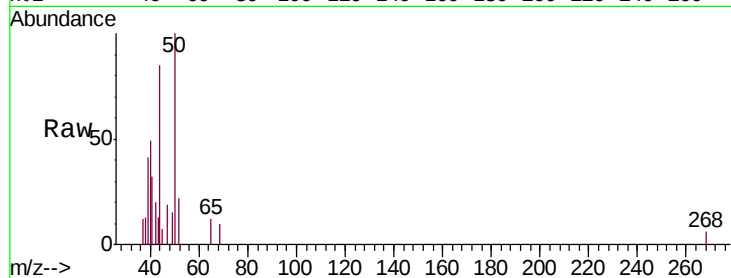
SSG-2DL

Tgt Ion: 50 Resp: 2291

Ion Ratio Lower Upper

50 100

52 21.5 25.7 38.5#



#9

Propene

Concen: 5.101 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033865.D

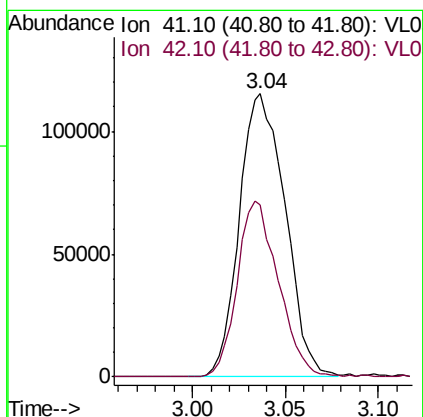
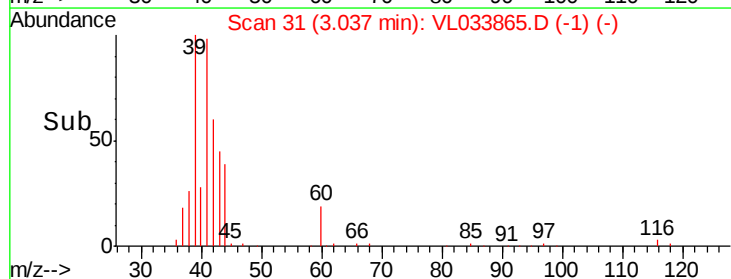
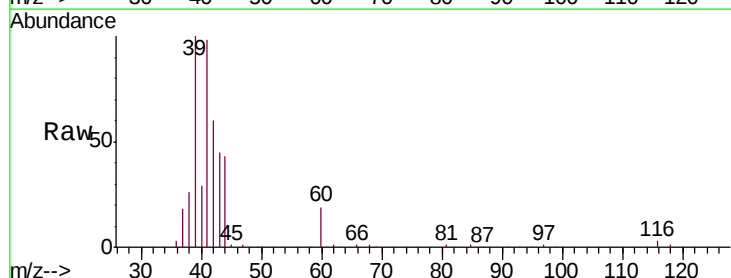
Acq: 30 May 2019 10:58

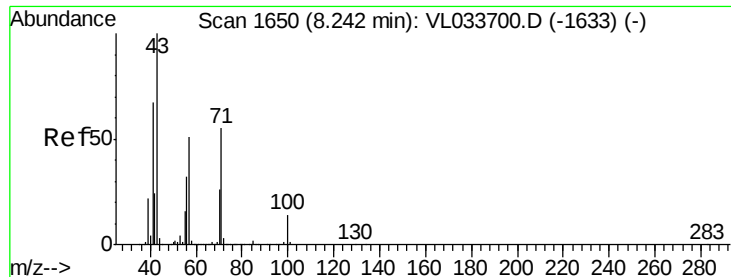
Tgt Ion: 41 Resp: 197522

Ion Ratio Lower Upper

41 100

42 56.2 56.1 84.1

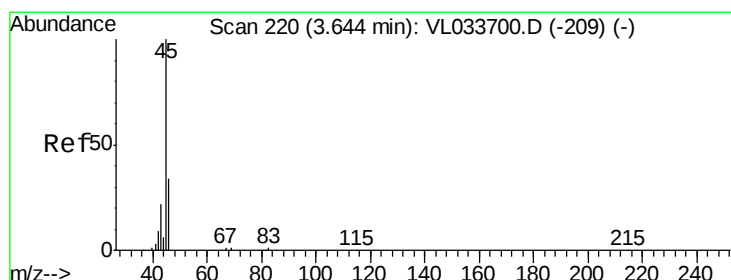
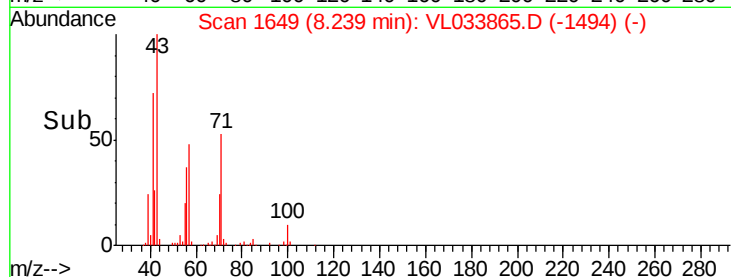
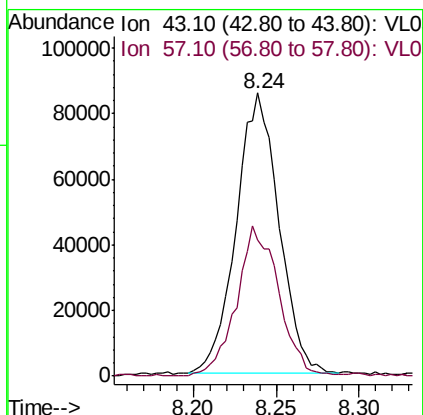
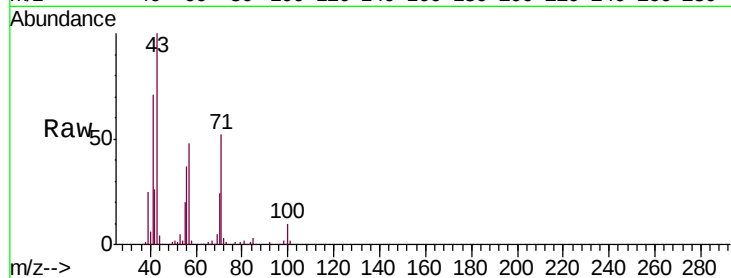




#10
Heptane
Concen: 1.397 ppbv
RT: 8.24 min Scan# 1649
Delta R.T. -0.00 min
Lab File: VL033865.D
Acq: 30 May 2019 10:58

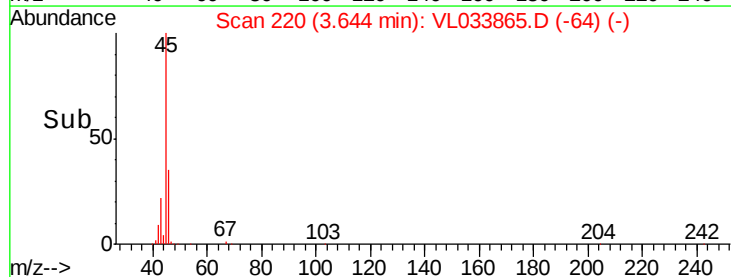
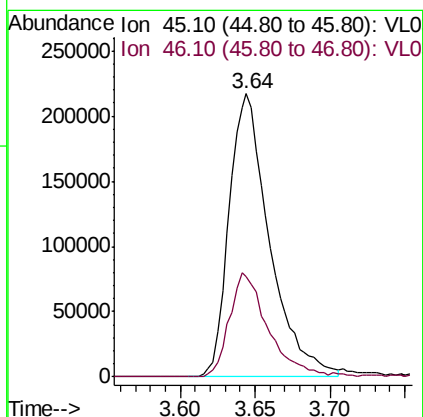
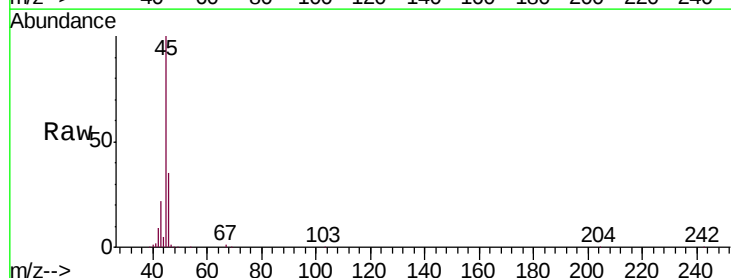
Instrument :
MSVOA_L
ClientSampleId :
SSG-2DL

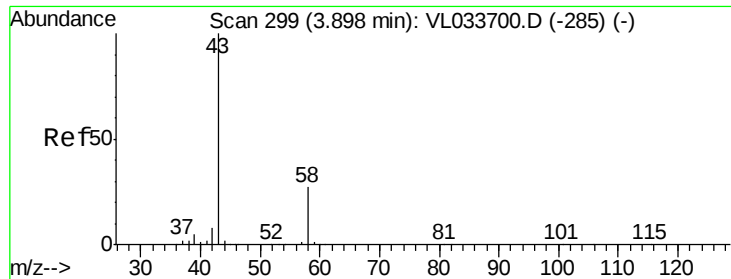
Tgt Ion: 43 Resp: 153197
Ion Ratio Lower Upper
43 100
57 53.6 41.4 62.0



#13
Ethanol
Concen: 32.632 ppbv
RT: 3.64 min Scan# 220
Delta R.T. 0.00 min
Lab File: VL033865.D
Acq: 30 May 2019 10:58

Tgt Ion: 45 Resp: 408422
Ion Ratio Lower Upper
45 100
46 36.5 14.8 59.0





#15

Acetone

Concen: 14.643 ppbv

RT: 3.89 min Scan# 297

Delta R.T. -0.01 min

Lab File: VL033865.D

Acq: 30 May 2019 10:58

Instrument :

MSVOA_L

ClientSampleId :

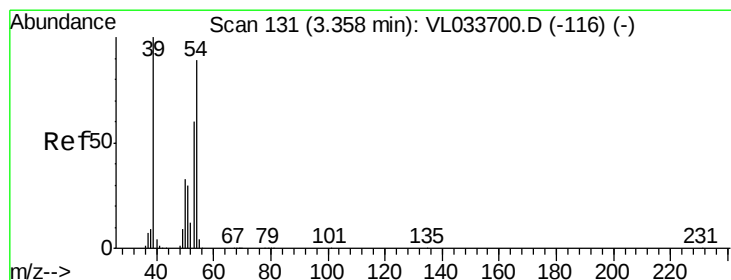
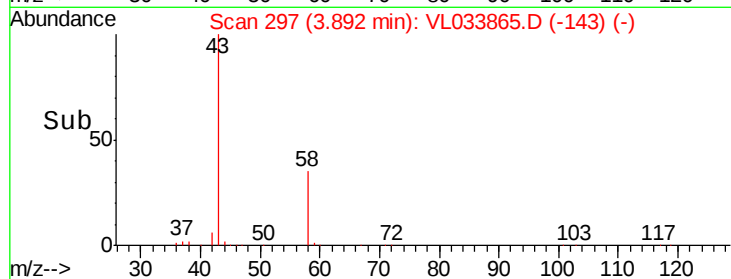
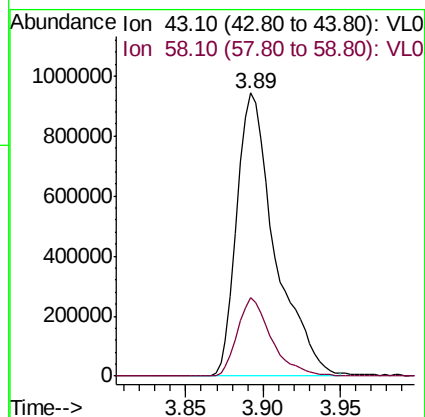
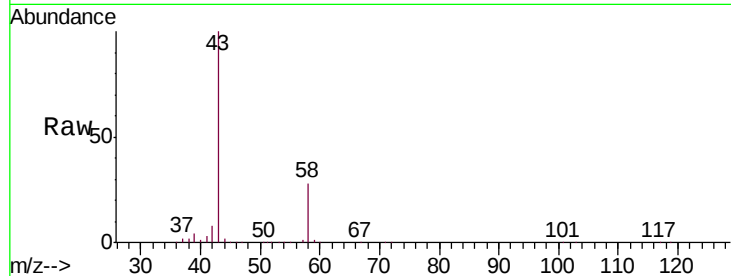
SSG-2DL

Tgt Ion: 43 Resp: 1614767

Ion Ratio Lower Upper

43 100

58 24.8 21.3 31.9



#16

1,3-Butadiene

Concen: 0.463 ppbv

RT: 3.36 min Scan# 131

Delta R.T. 0.00 min

Lab File: VL033865.D

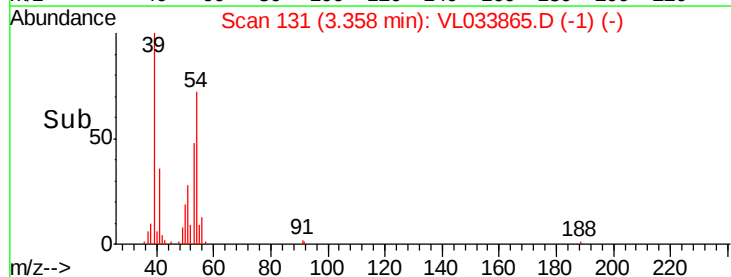
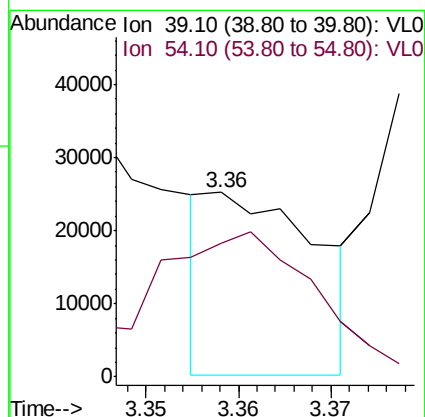
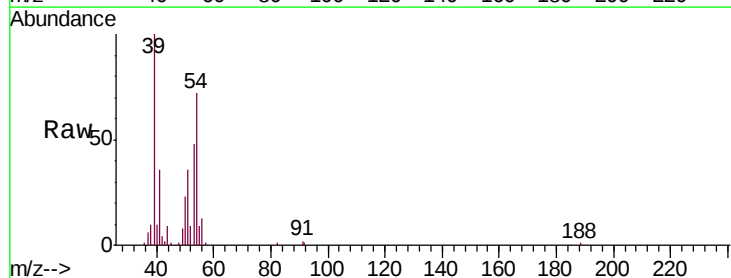
Acq: 30 May 2019 10:58

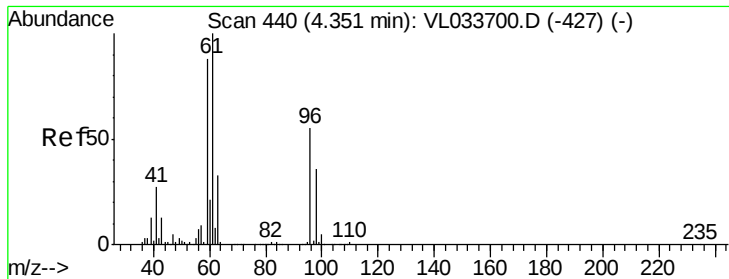
Tgt Ion: 39 Resp: 20350

Ion Ratio Lower Upper

39 100

54 143.8 69.0 103.6#



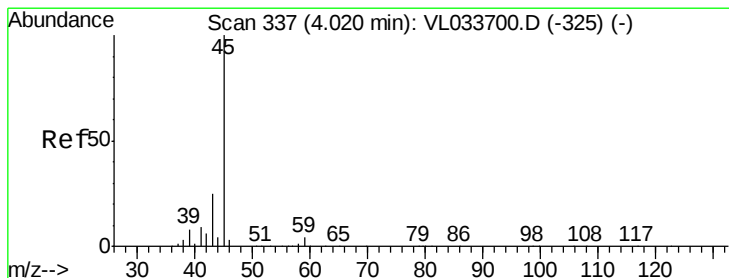
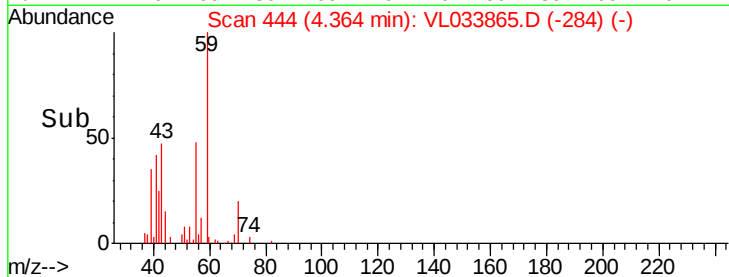
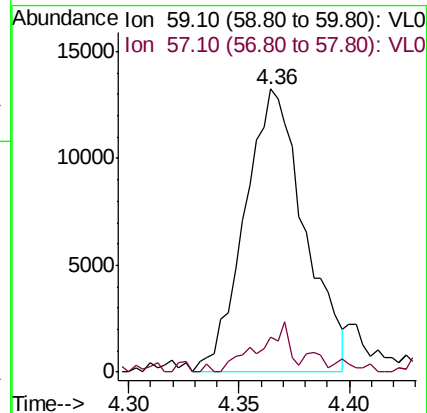
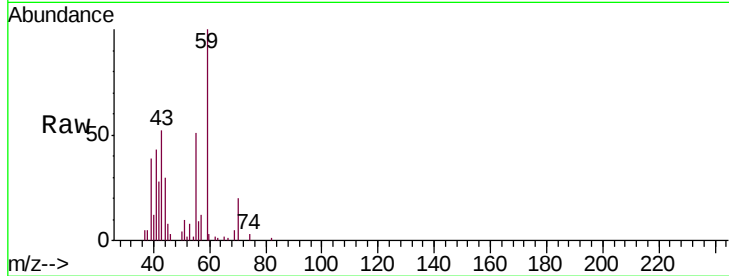


#17

tert-Butyl alcohol
 Concen: 0.281 ppbv
 RT: 4.36 min Scan# 444
 Delta R.T. 0.01 min
 Lab File: VL033865.D
 Acq: 30 May 2019 10:58

Instrument :
 MSVOA_L
 ClientSampleId :
 SSG-2DL

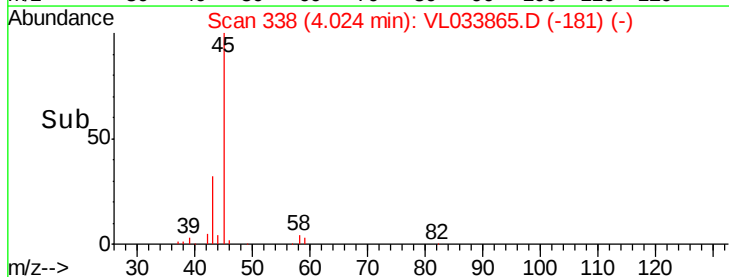
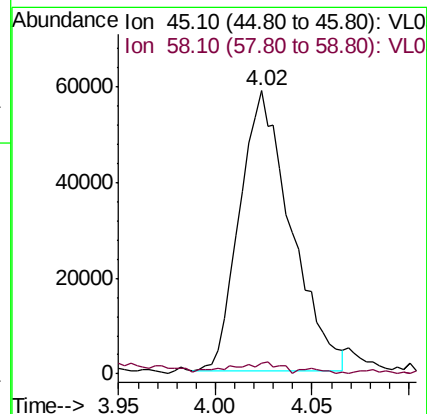
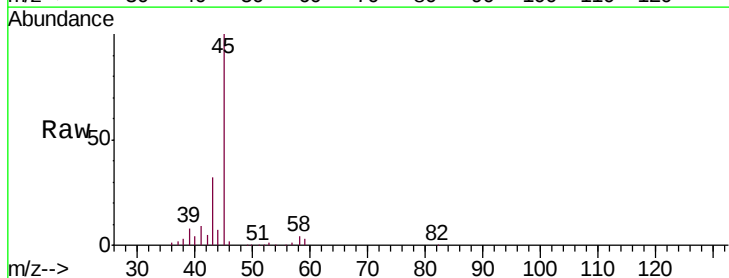
Tgt Ion: 59 Resp: 25025
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

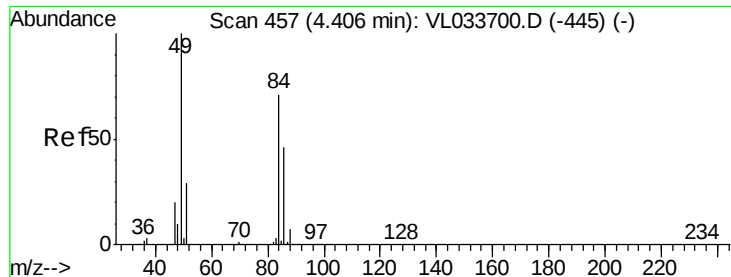


#19

Isopropyl Alcohol
 Concen: 1.523 ppbv
 RT: 4.02 min Scan# 338
 Delta R.T. 0.00 min
 Lab File: VL033865.D
 Acq: 30 May 2019 10:58

Tgt Ion: 45 Resp: 108299
 Ion Ratio Lower Upper
 45 100
 58 370.0 1.6 2.4#





#20

Methylene Chloride

Concen: 0.147 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033865.D

Acq: 30 May 2019 10:58

Instrument :

MSVOA_L

ClientSampleId :

SSG-2DL

Tgt Ion: 84 Resp: 6241

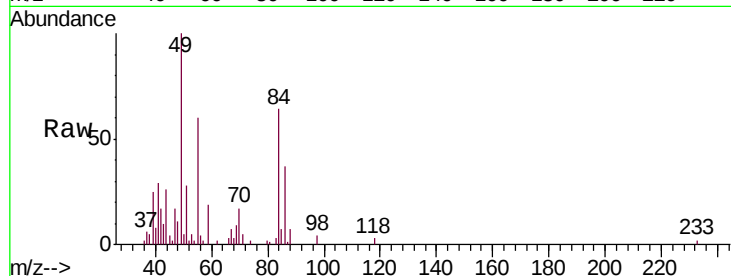
Ion Ratio Lower Upper

84 100

49 151.3 112.8 169.2

51 2.4 33.4 50.0#

86 57.7 51.7 77.5

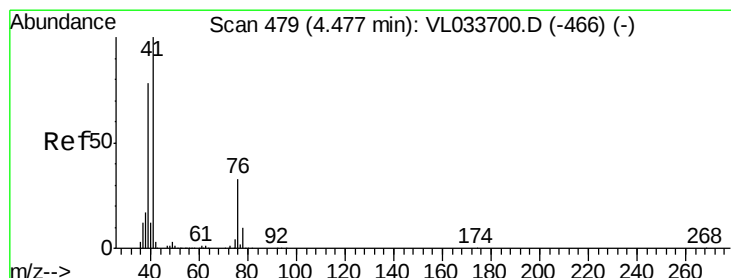
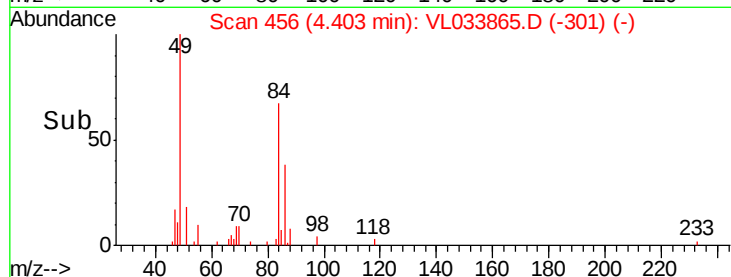
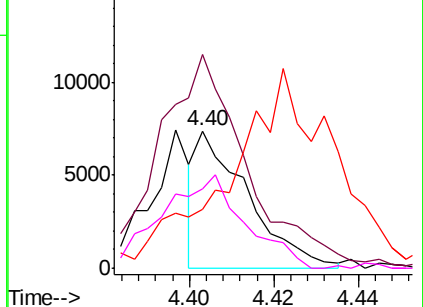


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21

Allyl Chloride

Concen: 0.604 ppbv

RT: 4.43 min Scan# 464

Delta R.T. -0.05 min

Lab File: VL033865.D

Acq: 30 May 2019 10:58

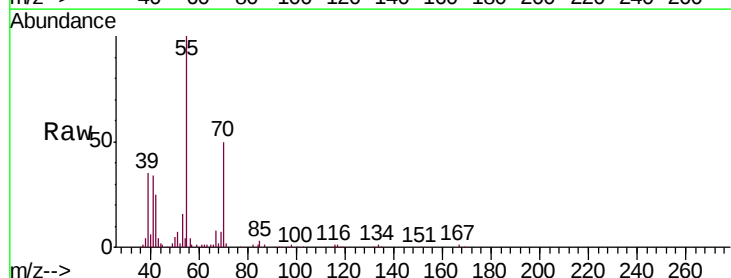
Tgt Ion: 41 Resp: 41554

Ion Ratio Lower Upper

41 100

76 0.0 25.9 38.9#

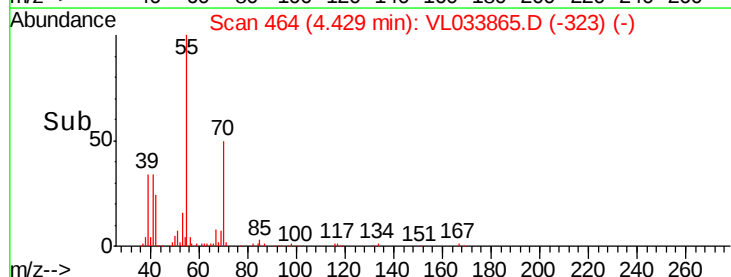
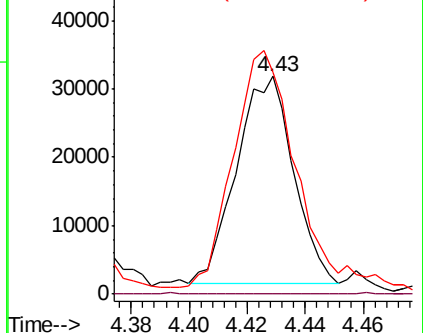
39 136.9 64.6 97.0#

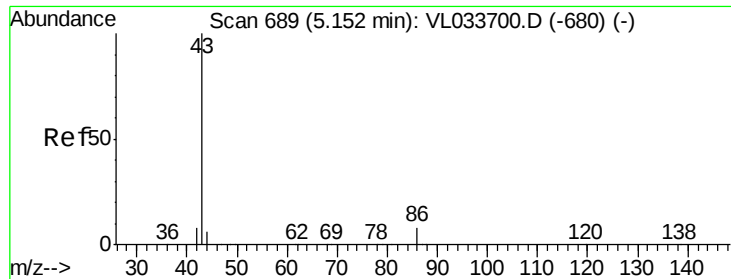


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.328 ppbv

RT: 5.14 min Scan# 684

Delta R.T. -0.02 min

Lab File: VL033865.D

Acq: 30 May 2019 10:58

Instrument :

MSVOA_L

ClientSampleId :

SSG-2DL

Tgt Ion: 43 Resp: 47680

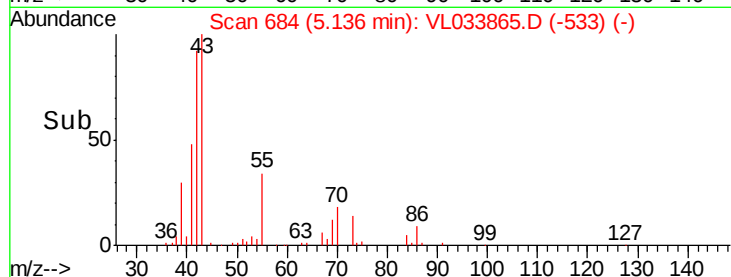
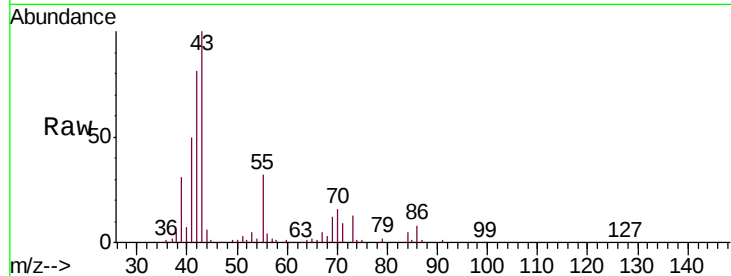
Ion Ratio Lower Upper

43 100

86 8.2 6.0 9.0

42 95.0 7.5 11.3#

44 6.2 4.4 6.6

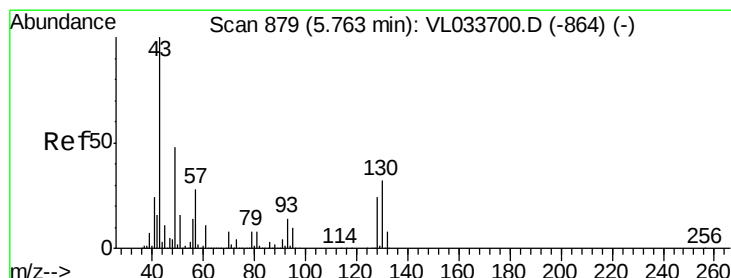
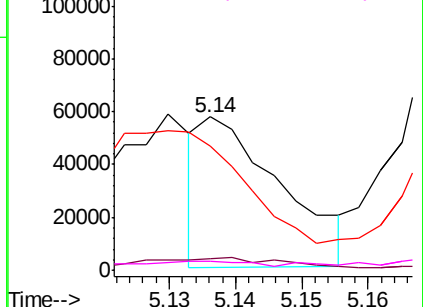


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.433 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.01 min

Lab File: VL033865.D

Acq: 30 May 2019 10:58

Tgt Ion: 43 Resp: 277661

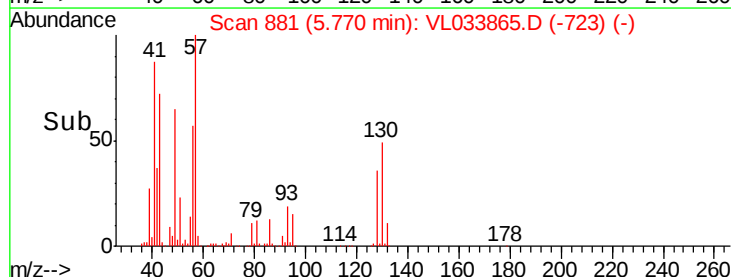
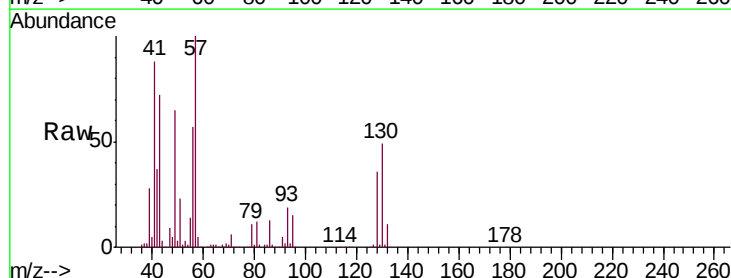
Ion Ratio Lower Upper

43 100

45 0.4 7.9 11.9#

61 0.3 7.7 11.5#

70 1.6 5.8 8.6#

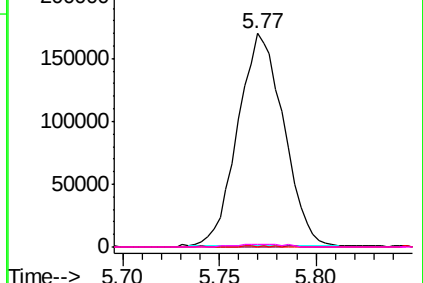


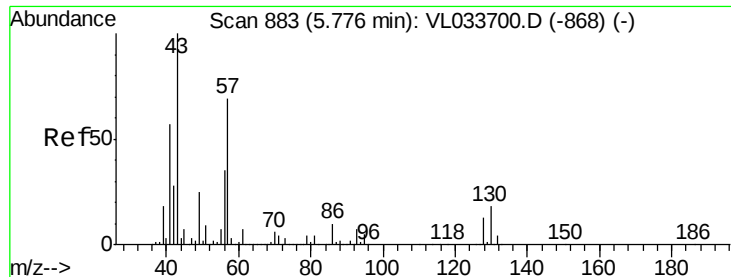
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

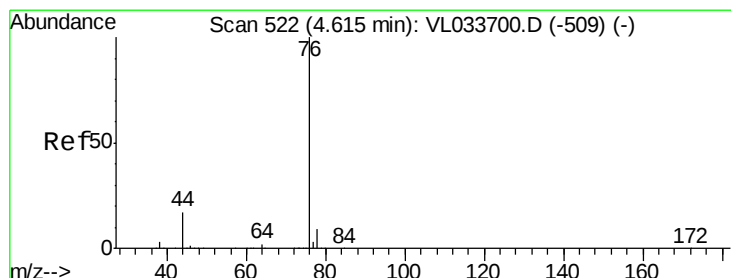
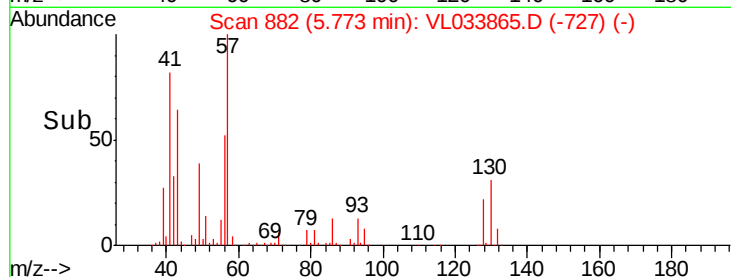
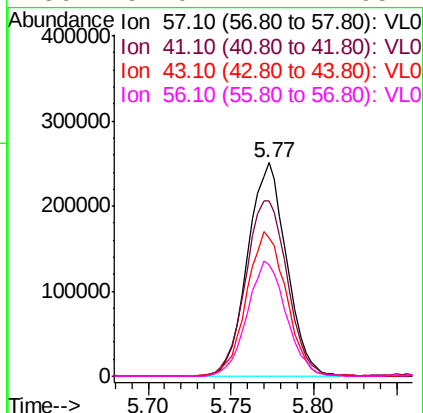
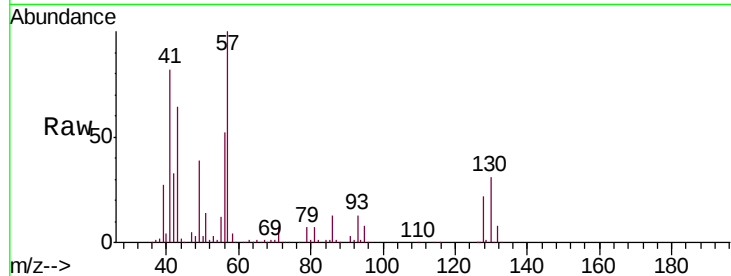




#26
Hexane
Concen: 4.932 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL033865.D
Acq: 30 May 2019 10:58

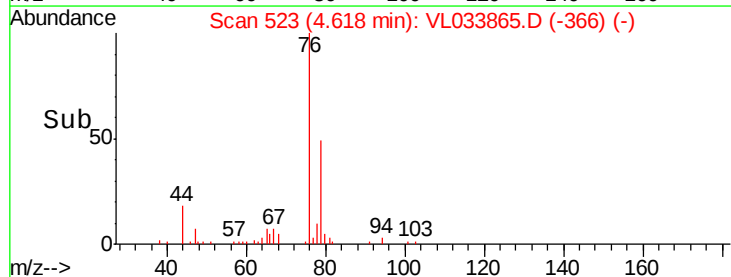
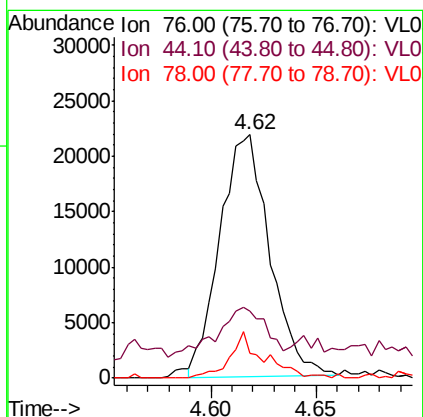
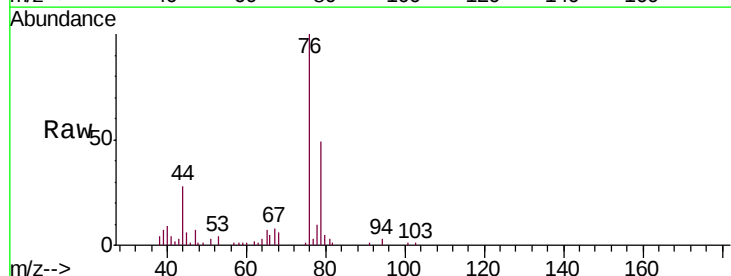
Instrument :
MSVOA_L
ClientSampleId :
SSG-2DL

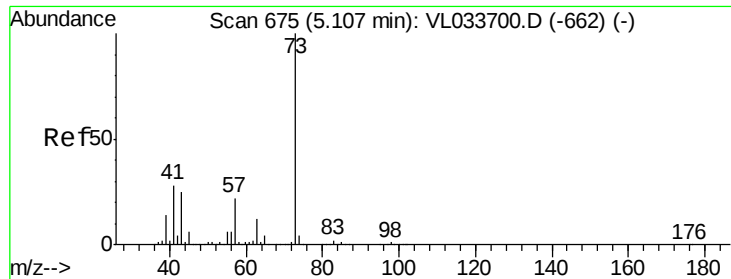
Tgt Ion: 57 Resp: 410729
Ion Ratio Lower Upper
57 100
41 88.7 69.8 104.6
43 69.4 181.8 272.6#
56 54.0 42.1 63.1



#27
Carbon Disulfide
Concen: 0.314 ppbv
RT: 4.62 min Scan# 523
Delta R.T. 0.00 min
Lab File: VL033865.D
Acq: 30 May 2019 10:58

Tgt Ion: 76 Resp: 35906
Ion Ratio Lower Upper
76 100
44 20.0 13.8 20.8
78 13.1 7.4 11.0#

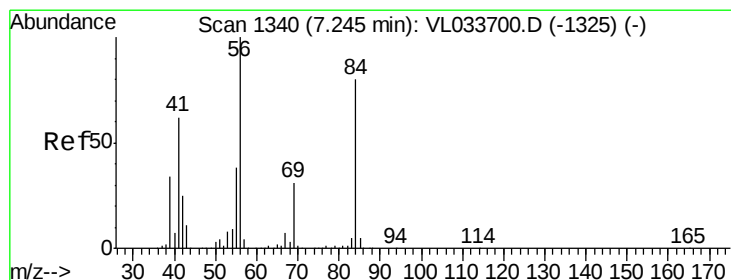
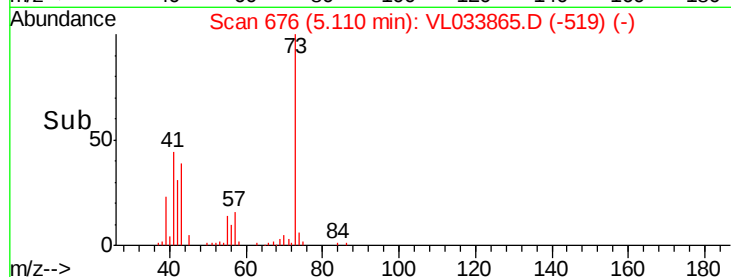
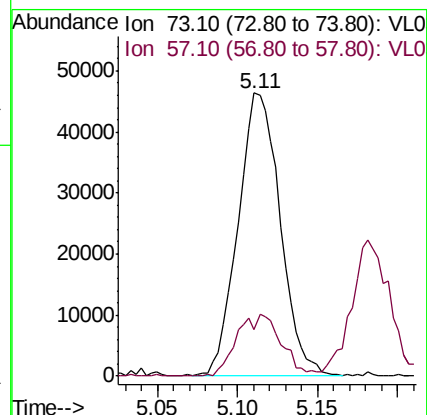
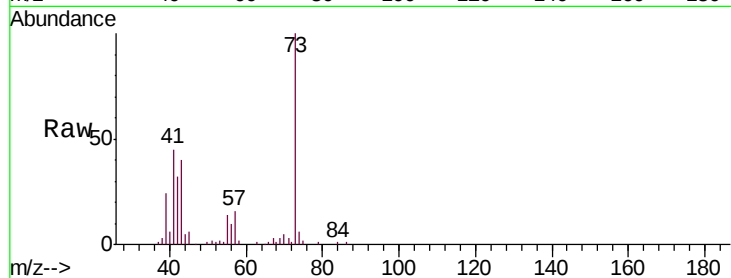




#28
Methyl tert-Butyl Ether
Concen: 0.613 ppbv
RT: 5.11 min Scan# 676
Delta R.T. 0.00 min
Lab File: VL033865.D
Acq: 30 May 2019 10:58

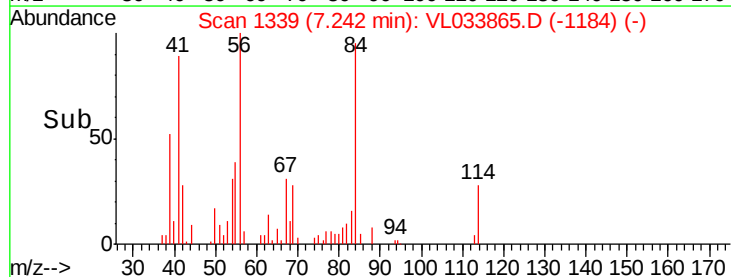
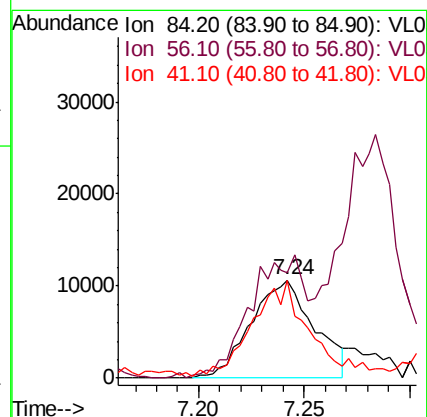
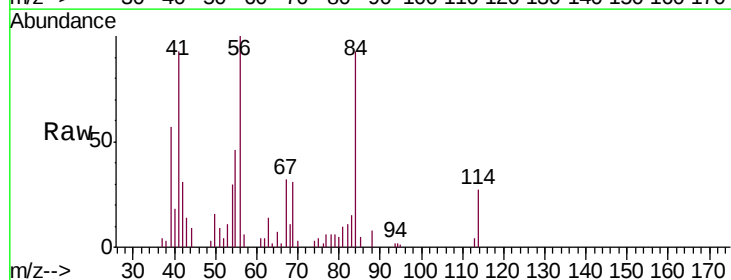
Instrument :
MSVOA_L
ClientSampled :
SSG-2DL

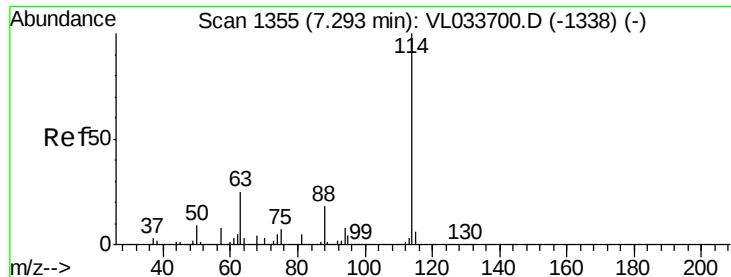
Tgt Ion: 73 Resp: 83250
Ion Ratio Lower Upper
73 100
57 23.3 17.4 26.2



#30
Cyclohexane
Concen: 0.315 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VL033865.D
Acq: 30 May 2019 10:58

Tgt Ion: 84 Resp: 22060
Ion Ratio Lower Upper
84 100
56 124.1 107.7 161.5
41 88.2 66.0 99.0

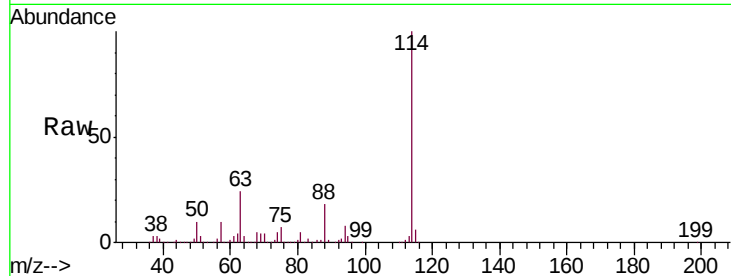




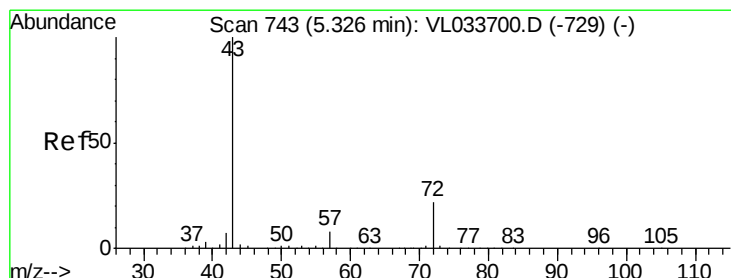
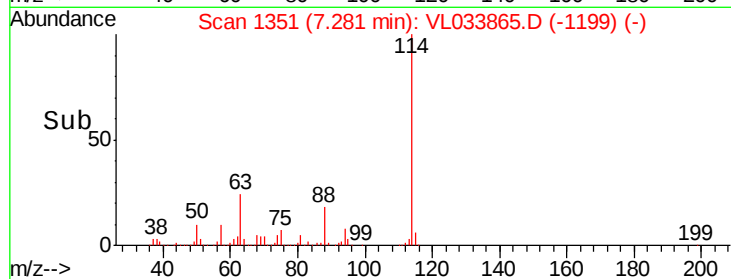
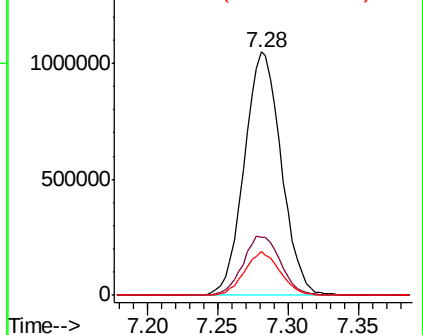
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.01 min
 Lab File: VL033865.D
 Acq: 30 May 2019 10:58

Instrument :
 MSVOA_L
 ClientSampleId :
 SSG-2DL

Tgt Ion:114 Resp: 1925383
 Ion Ratio Lower Upper
 114 100
 63 25.0 20.9 31.3
 88 17.3 14.3 21.5

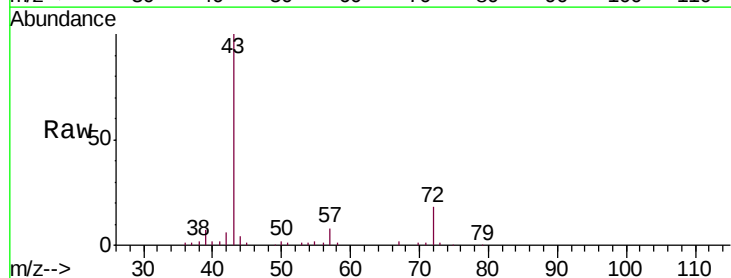


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

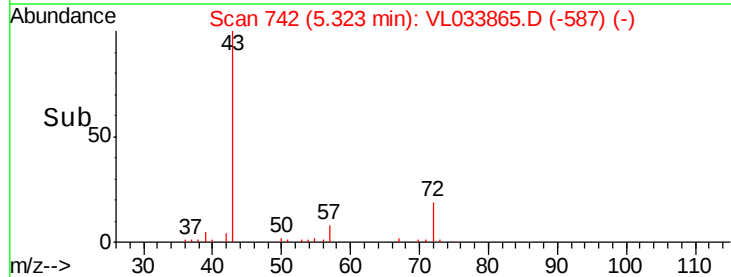
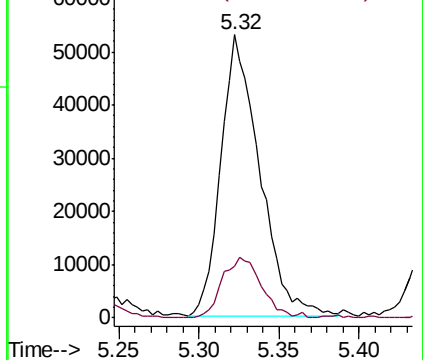


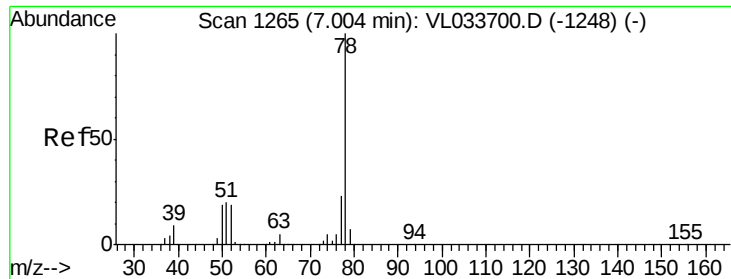
#34
 2-Butanone
 Concen: 0.742 ppbv
 RT: 5.32 min Scan# 742
 Delta R.T. -0.00 min
 Lab File: VL033865.D
 Acq: 30 May 2019 10:58

Tgt Ion: 43 Resp: 88564
 Ion Ratio Lower Upper
 43 100
 72 21.7 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0

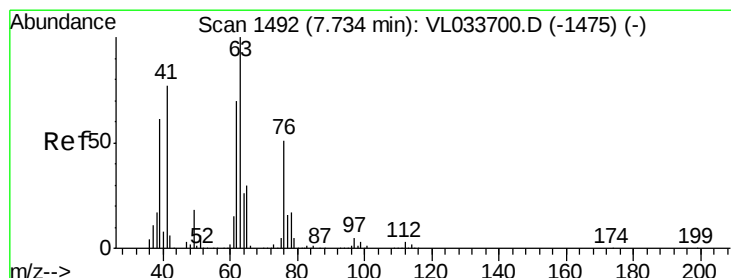
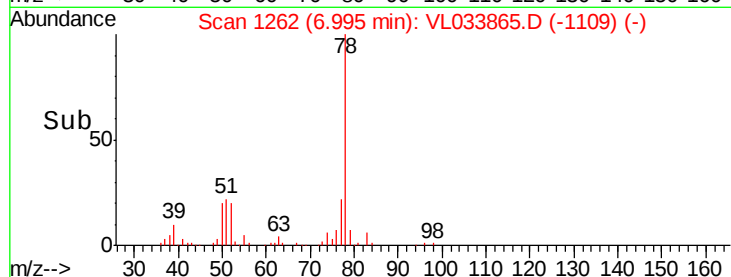
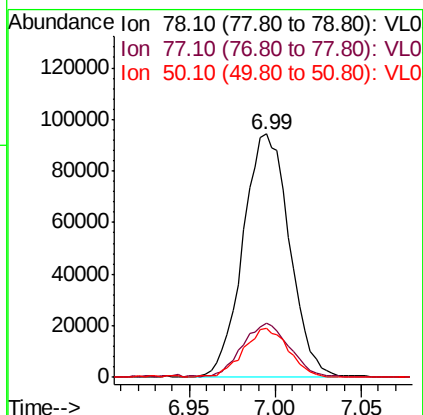
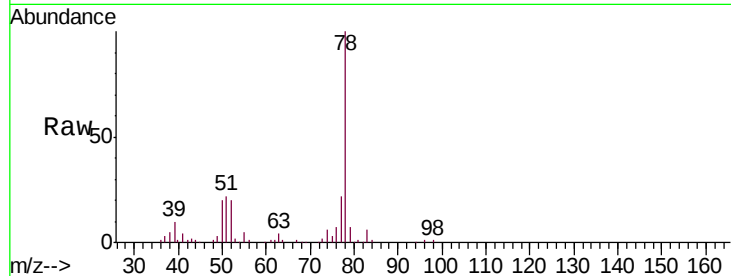




#36
Benzene
Concen: 1.009 ppbv
RT: 6.99 min Scan# 1262
Delta R.T. -0.01 min
Lab File: VL033865.D
Acq: 30 May 2019 10:58

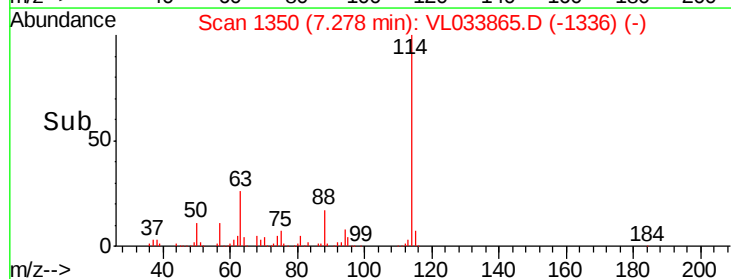
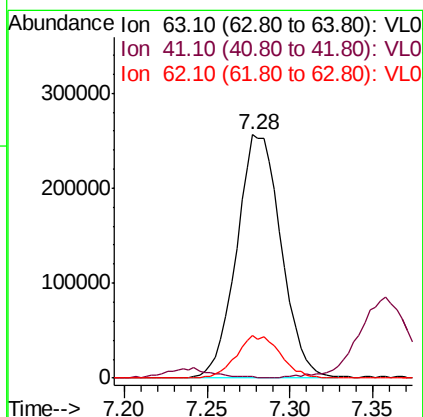
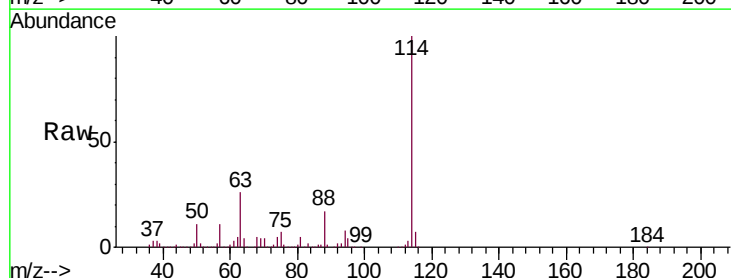
Instrument :
MSVOA_L
ClientSampleId :
SSG-2DL

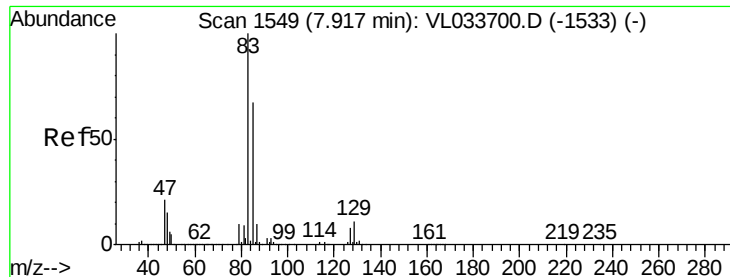
Tgt Ion: 78 Resp: 176804
Ion Ratio Lower Upper
78 100
77 22.0 18.4 27.6
50 20.1 15.5 23.3



#39
1,2-Dichloropropane
Concen: 7.281 ppbv
RT: 7.28 min Scan# 1350
Delta R.T. -0.46 min
Lab File: VL033865.D
Acq: 30 May 2019 10:58

Tgt Ion: 63 Resp: 475430
Ion Ratio Lower Upper
63 100
41 0.0 61.5 92.3#
62 17.7 56.2 84.4#





#42

Bromodichloromethane

Concen: 0.039 ppbv

RT: 7.90 min Scan# 1544

Delta R.T. -0.02 min

Lab File: VL033865.D

Acq: 30 May 2019 10:58

Instrument :

MSVOA_L

ClientSampleId :

SSG-2DL

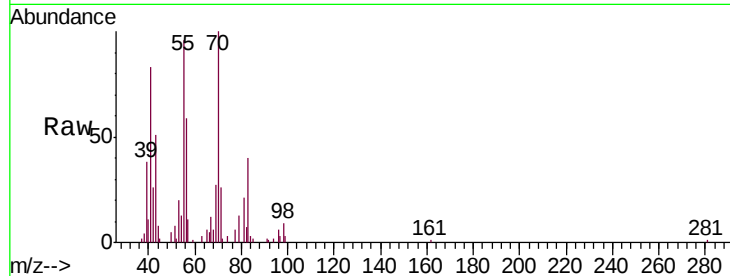
Tgt Ion: 83 Resp: 5977

Ion Ratio Lower Upper

83 100

85 3.1 53.3 79.9#

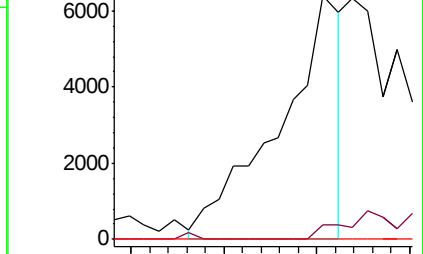
127 0.0 6.5 9.7#



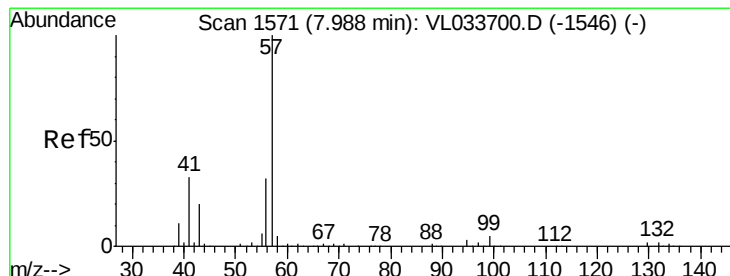
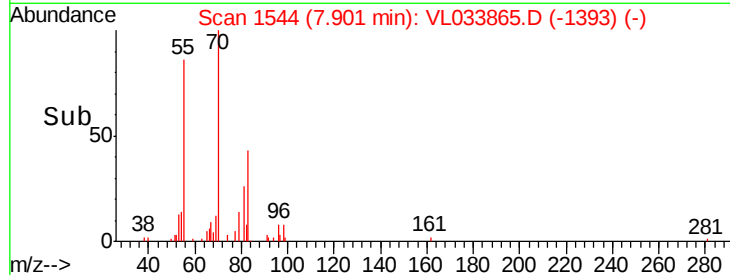
Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



Time-->



#44

2,2,4-Trimethylpentane

Concen: 6.722 ppbv

RT: 7.98 min Scan# 1569

Delta R.T. -0.01 min

Lab File: VL033865.D

Acq: 30 May 2019 10:58

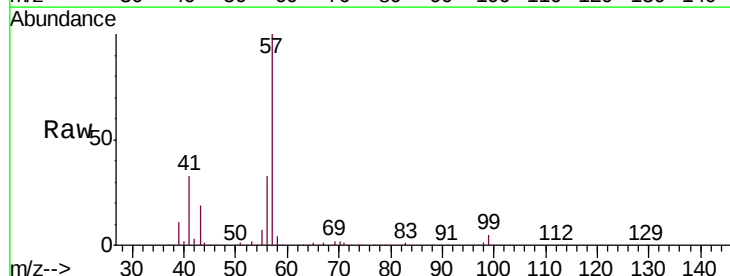
Tgt Ion: 57 Resp: 1989863

Ion Ratio Lower Upper

57 100

41 33.3 25.4 38.0

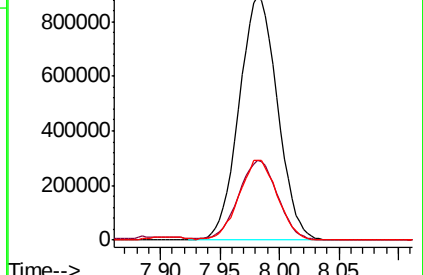
56 33.0 24.7 37.1



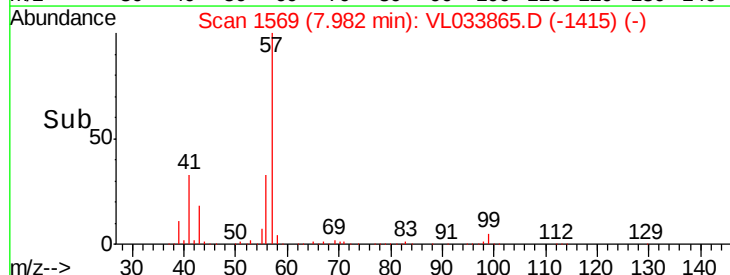
Abundance Ion 57.10 (56.80 to 57.80): VL0

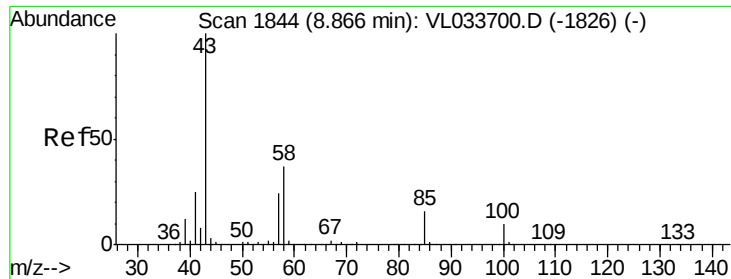
Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



Time-->

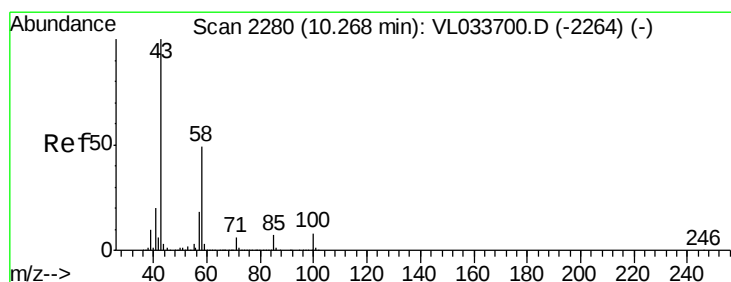
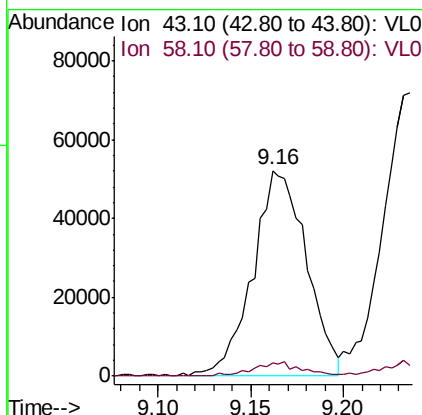
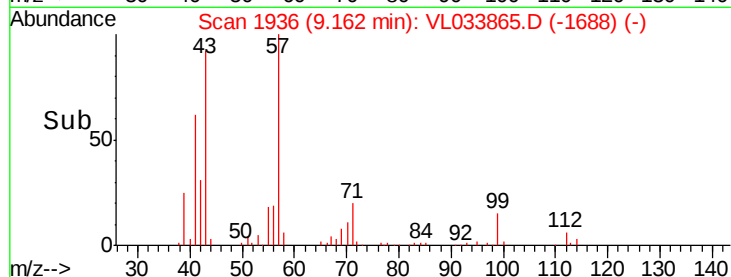
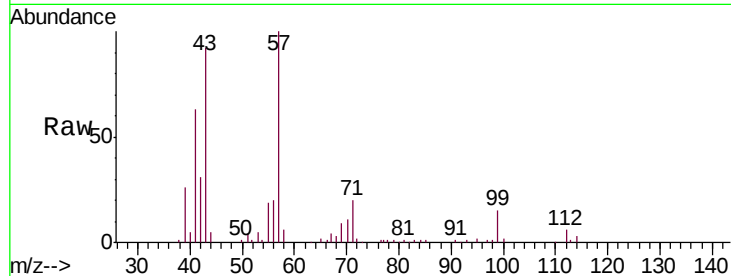




#50
 4-Methyl-2-Pentanone
 Concen: 0.570 ppbv
 RT: 9.16 min Scan# 1936
 Delta R.T. 0.30 min
 Lab File: VL033865.D
 Acq: 30 May 2019 10:58

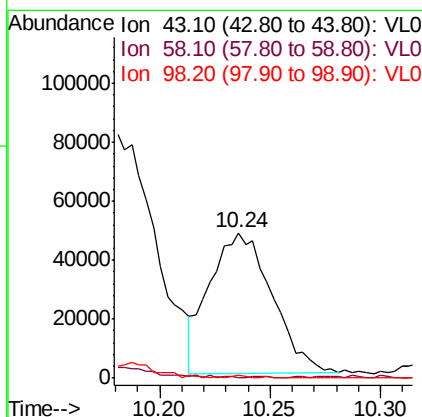
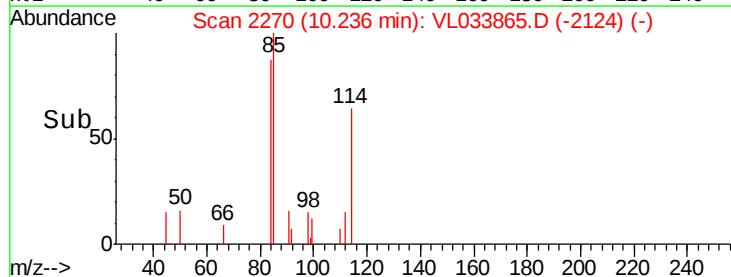
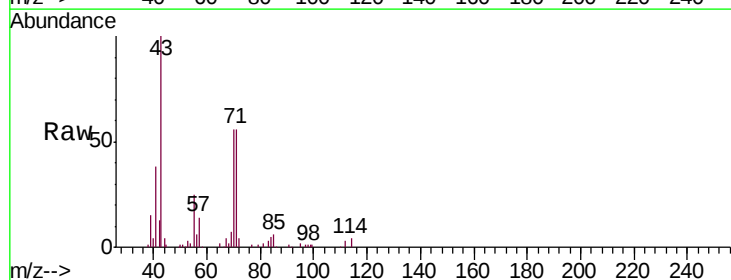
Instrument :
 MSVOA_L
 ClientSampleId :
 SSG-2DL

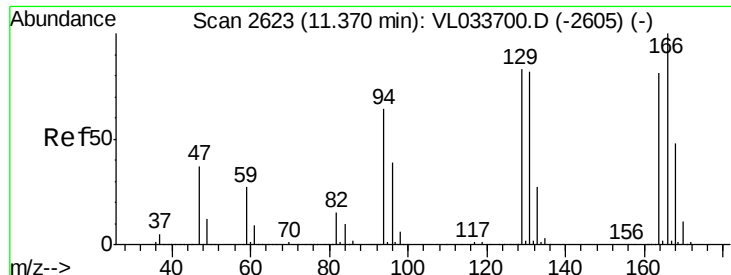
Tgt Ion: 43 Resp: 104557
 Ion Ratio Lower Upper
 43 100
 58 6.2 28.6 43.0#



#51
 2-Hexanone
 Concen: 0.652 ppbv
 RT: 10.24 min Scan# 2270
 Delta R.T. -0.03 min
 Lab File: VL033865.D
 Acq: 30 May 2019 10:58

Tgt Ion: 43 Resp: 93422
 Ion Ratio Lower Upper
 43 100
 58 1.2 38.7 58.1#
 98 0.0 0.2 0.4#





#52

Tetrachloroethene

Concen: 0.387 ppbv

RT: 11.36 min Scan# 2620

Delta R.T. -0.01 min

Lab File: VL033865.D

Acq: 30 May 2019 10:58

Instrument :

MSVOA_L

ClientSampleId :

SSG-2DL

Tgt Ion:164 Resp: 23799

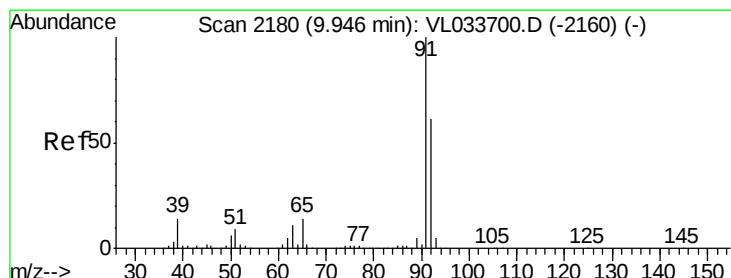
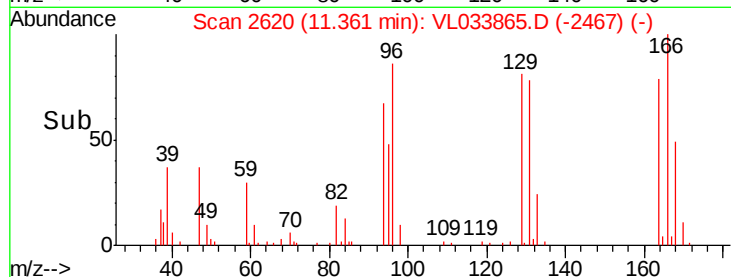
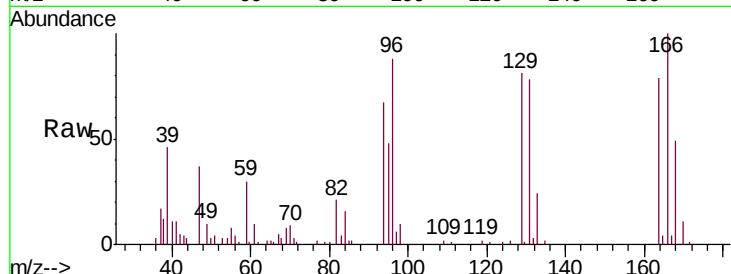
Ion Ratio Lower Upper

164 100

166 123.7 98.9 148.3

129 101.2 81.8 122.6

131 102.3 81.1 121.7



#53

Toluene

Concen: 0.819 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033865.D

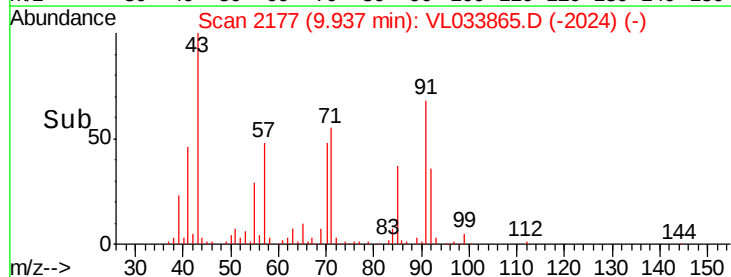
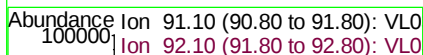
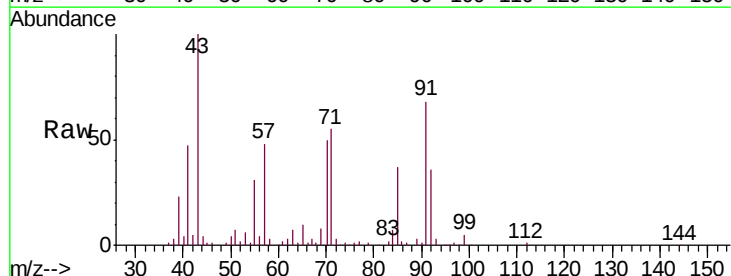
Acq: 30 May 2019 10:58

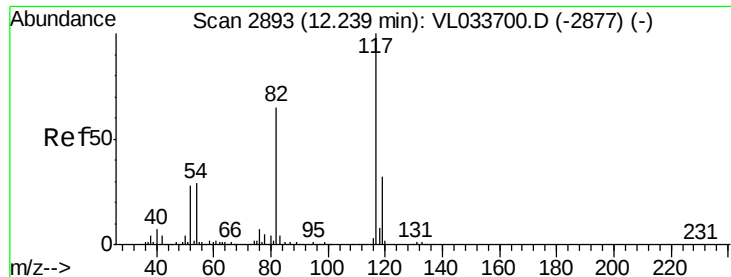
Tgt Ion: 91 Resp: 154621

Ion Ratio Lower Upper

91 100

92 60.4 47.6 71.4

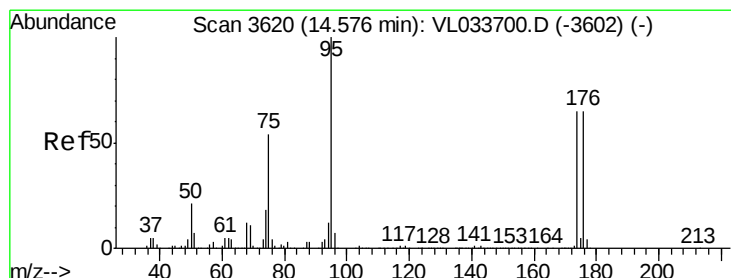
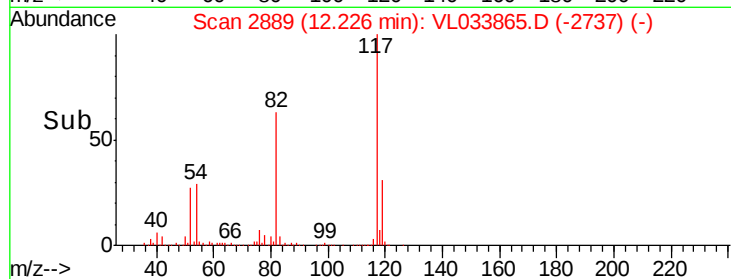
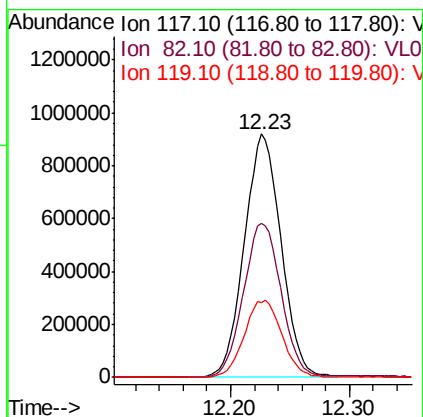
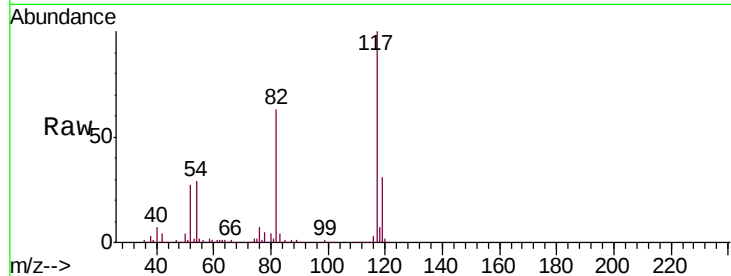




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2889
Delta R.T. -0.01 min
Lab File: VL033865.D
Acq: 30 May 2019 10:58

Instrument :
MSVOA_L
ClientSampleId :
SSG-2DL

Tgt Ion: 117 Resp: 1975741
Ion Ratio Lower Upper
117 100
82 65.0 49.4 74.0
119 32.5 24.9 37.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.854 ppbv
RT: 14.56 min Scan# 3616
Delta R.T. -0.01 min
Lab File: VL033865.D
Acq: 30 May 2019 10:58

Tgt Ion: 95 Resp: 1578313
Ion Ratio Lower Upper
95 100
174 67.8 53.9 80.9
175 4.8 3.8 5.8

