

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
 Data File : VL032966.D
 Acq On : 11 Dec 2018 22:39
 Operator : SY/AP
 Sample : J6264-15
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 12 00:53:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1342987	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3487898	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3317730	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2491603	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	23692	0.132	ppbv 99
3) Chlorodifluoromethane	3.02	51	38612	0.380	ppbv # 82
4) Chloromethane	3.17	50	34878	0.589	ppbv 91
7) Chloroethane	3.61	64	736	0.034	ppbv # 83
9) Propene	3.04	41	254983	6.340	ppbv 84
10) Heptane	8.25	43	381969	2.528	ppbv 99
11) Trichlorofluoromethane	4.01	101	308715	1.828	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.56	101	5778	0.040	ppbv # 9
13) Ethanol	3.67	45	1205424	87.052	ppbv 97
15) Acetone	3.90	43	19541637	169.526	ppbv # 71
16) 1,3-Butadiene	3.35	39	79022	1.728	ppbv # 24
17) tert-Butyl alcohol	4.37	59	150896	5.142	ppbv # 98
19) Isopropyl Alcohol	4.04	45	730475	10.091	ppbv # 95
20) Methylene Chloride	4.42	84	451844	8.020	ppbv 98
21) Allyl Chloride	4.44	41	118213	1.258	ppbv # 70
23) Vinyl Acetate	5.14	43	166897	0.855	ppbv # 1
25) Ethyl Acetate	5.78	43	586321	2.153	ppbv # 81
26) Hexane	5.79	57	811968	6.459	ppbv # 46
27) Carbon Disulfide	4.62	76	295490	1.880	ppbv 99
30) Cyclohexane	7.25	84	131739	1.264	ppbv 97
34) 2-Butanone	5.34	43	2615590	17.216	ppbv 99
35) Carbon Tetrachloride	7.15	117	10912	0.040	ppbv # 84
36) Benzene	7.01	78	958712	3.737	ppbv 98
37) 1,2-Dichloroethane	6.42	62	6374	0.036	ppbv # 84
39) 1,2-Dichloropropane	7.30	63	812621	8.352	ppbv # 21
40) 1,4-Dioxane	7.96	88	147349	4.112	ppbv # 85
41) Tetrahydrofuran	6.16	42	86798	0.919	ppbv 93
44) 2,2,4-Trimethylpentane	7.99	57	900360	2.068	ppbv 94
50) 4-Methyl-2-Pentanone	8.88	43	155410	0.640	ppbv 97
51) 2-Hexanone	10.29	43	22324	0.135	ppbv # 1
53) Toluene	9.95	91	3030446	11.138	ppbv 99
58) Ethyl Benzene	12.87	91	660972	1.868	ppbv 93
59) m/p-Xylene	13.13	91	1440882	4.490	ppbv # 100
60) o-Xylene	13.86	91	486532	1.501	ppbv 98
61) Styrene	13.69	104	157011	0.728	ppbv 98
62) Isopropylbenzene	14.84	105	9280314	20.527	ppbv 98
64) n-propylbenzene	15.73	120	7939	0.068	ppbv # 1
65) tert-Butylbenzene	16.93	119	20302	0.048	ppbv # 1
69) p-Isopropyltoluene	17.82	119	27357	0.055	ppbv # 57
72) 4-Ethyltoluene	16.01	105	85469	0.236	ppbv # 94
73) 1,3,5-Trimethylbenzene	16.16	105	27676	0.078	ppbv 89

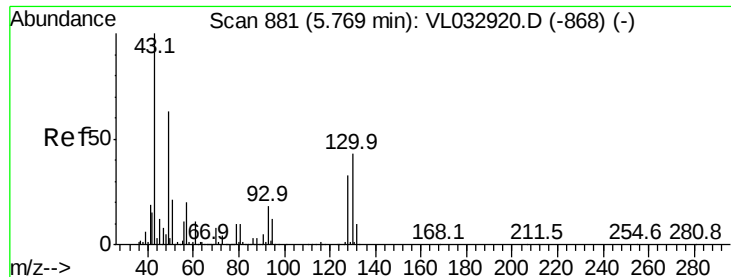
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
Data File : VL032966.D
Acq On : 11 Dec 2018 22:39
Operator : SY/AP
Sample : J6264-15
Misc : 400ml/MSVOA L
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Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Dec 12 00:53:15 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 1,2,4-Trimethylbenzene	16.93	105	122511	0.307	ppbv #	70
79) Naphthalene	22.41	128	9015	0.035	ppbv #	76
80) Naphthalene,2-methyl-	25.13	142	2361	0.043	ppbv #	62

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

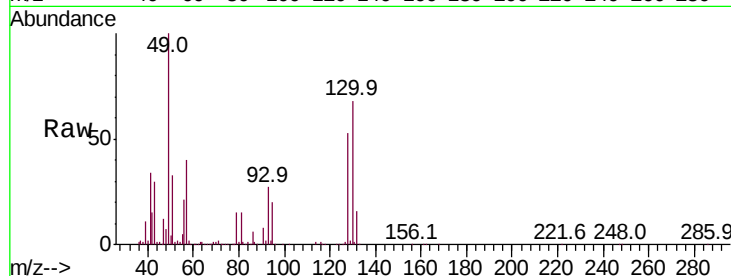
Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 49 Resp: 1342987

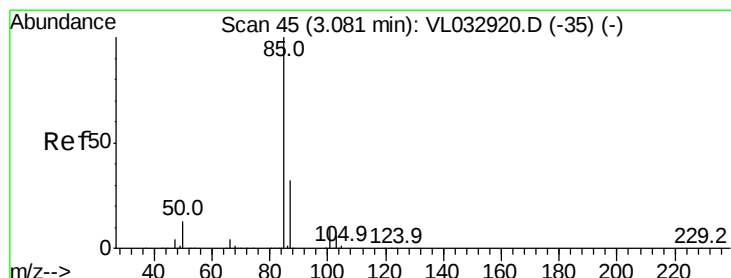
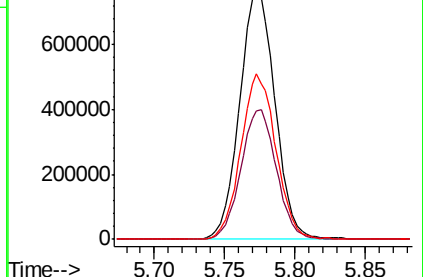
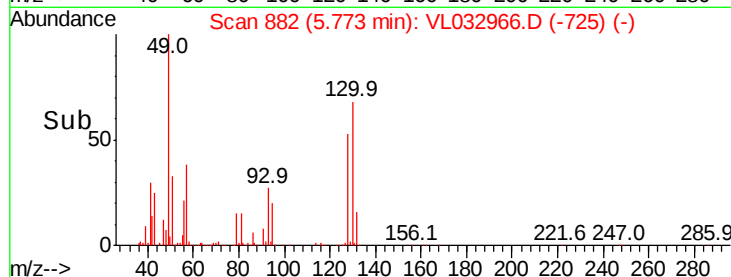
Ion	Ratio	Lower	Upper
49	100		
128	52.6	26.3	78.8
130	66.4	33.9	101.7



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: 0.132 ppbv

RT: 3.08 min Scan# 45

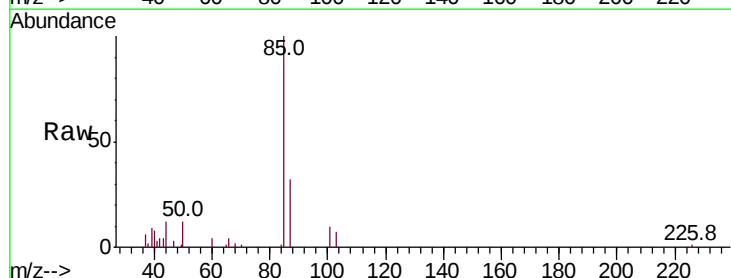
Delta R.T. 0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

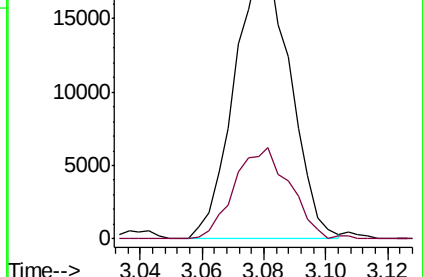
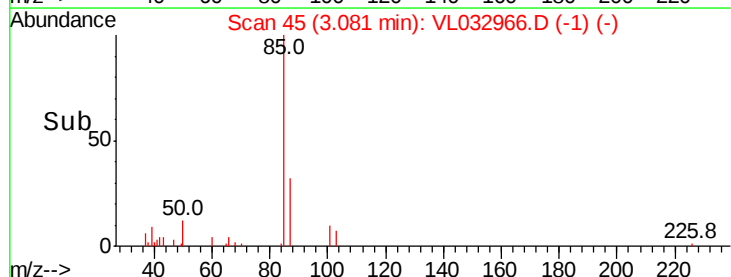
Tgt Ion: 85 Resp: 23692

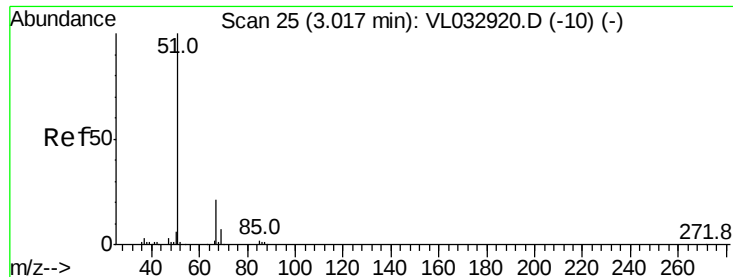
Ion	Ratio	Lower	Upper
85	100		
87	32.5	25.7	38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.380 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

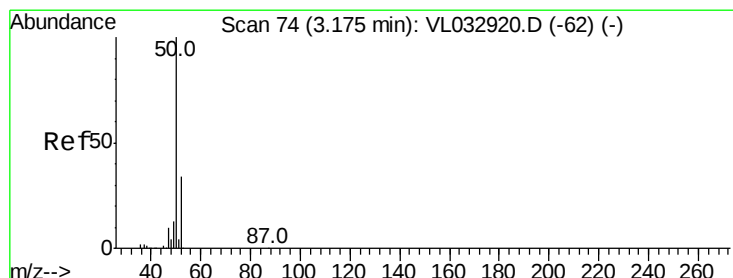
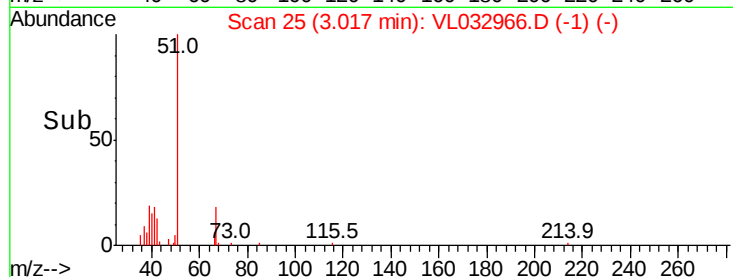
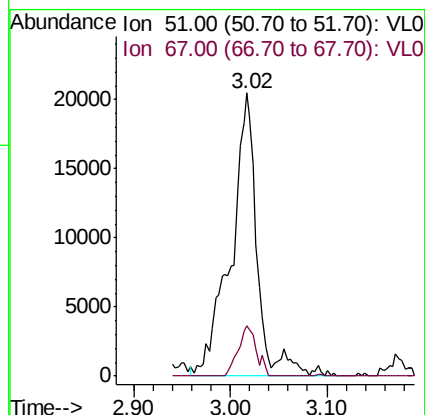
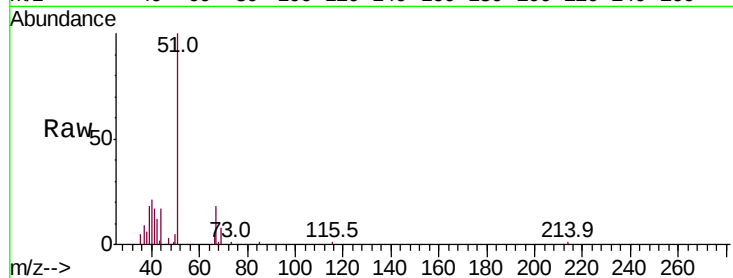
ClientSampleId :

Tot Ion: 51 Resp: 38612

Ion Ratio Lower Upper

51 100

67 12.4 16.8 25.2#



#4

Chloromethane

Concen: 0.589 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL032966.D

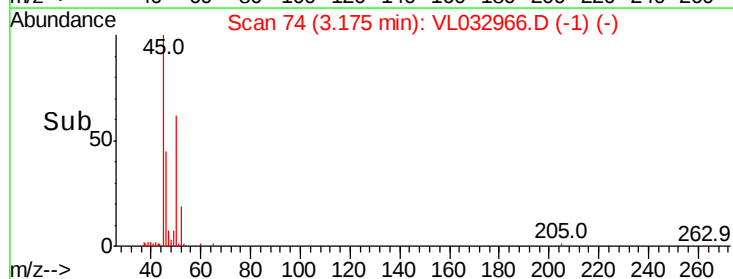
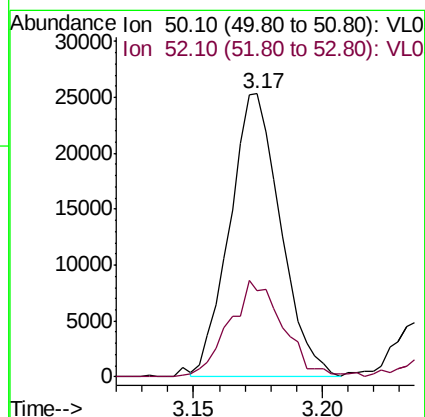
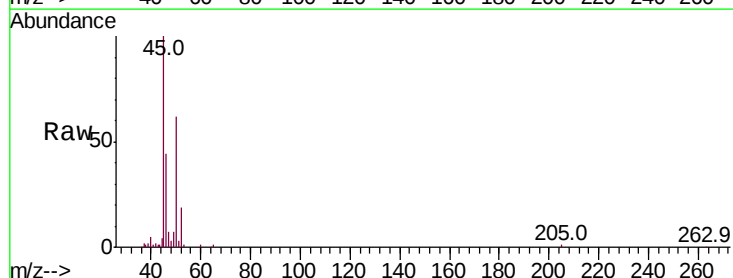
Acq: 11 Dec 2018 22:39

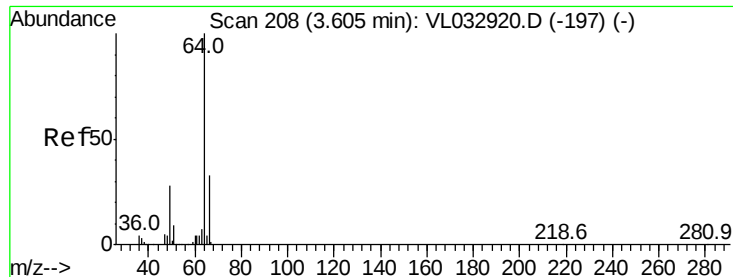
Tgt Ion: 50 Resp: 34878

Ion Ratio Lower Upper

50 100

52 29.1 27.3 40.9





#7

Chloroethane

Concen: 0.034 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

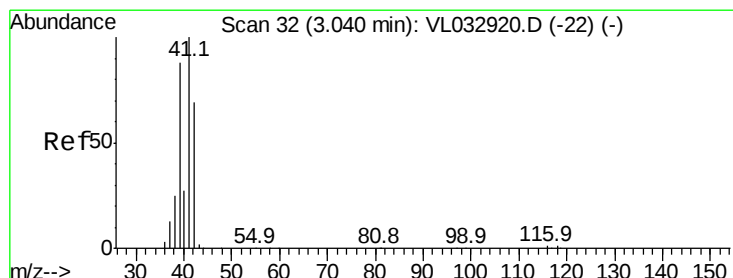
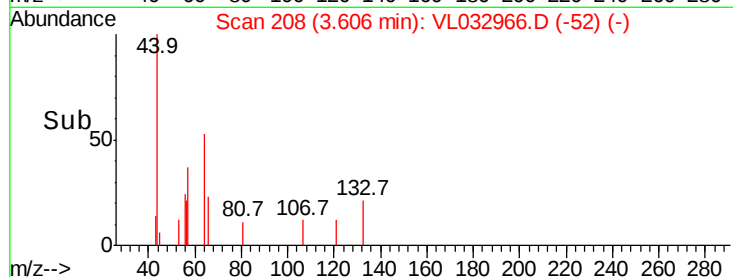
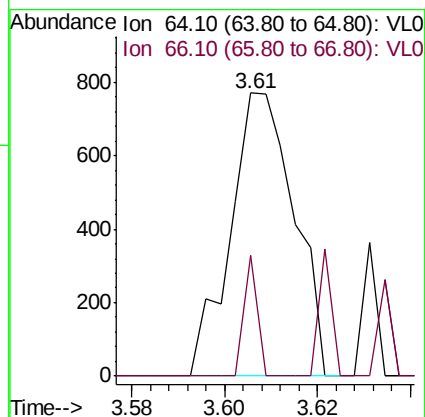
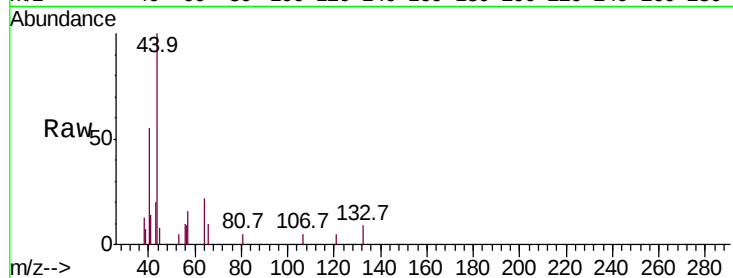
ClientSampleId :

Tot Ion: 64 Resp: 736

Ion Ratio Lower Upper

64 100

66 42.9 26.6 40.0#



#9

Propene

Concen: 6.340 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL032966.D

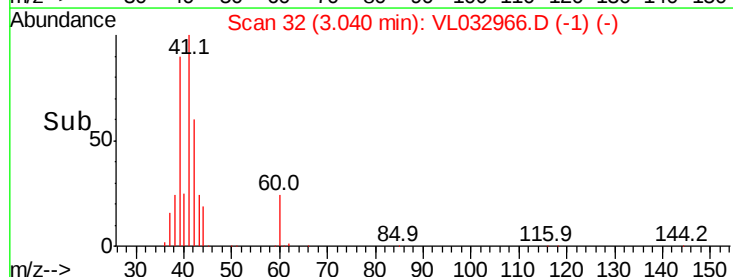
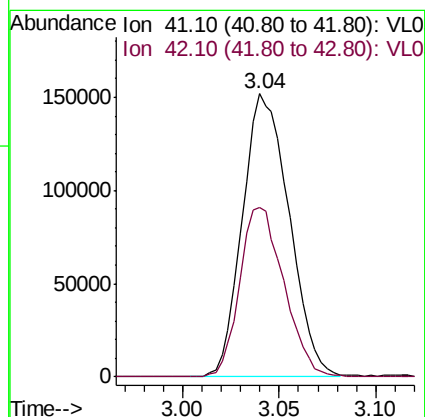
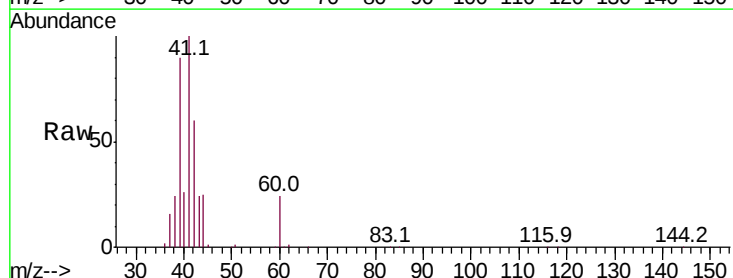
Acq: 11 Dec 2018 22:39

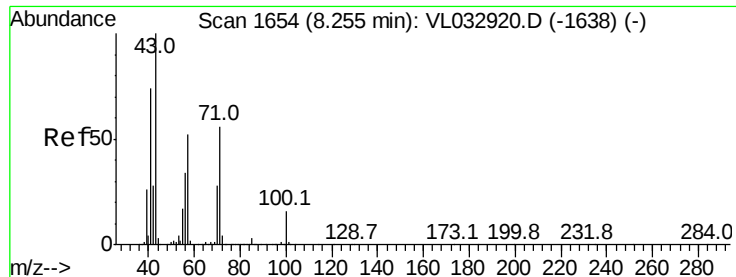
Tgt Ion: 41 Resp: 254983

Ion Ratio Lower Upper

41 100

42 56.7 56.2 84.2

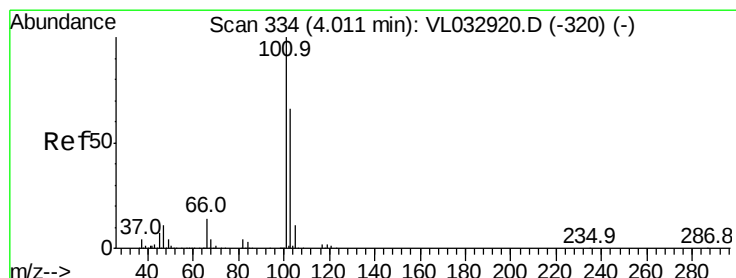
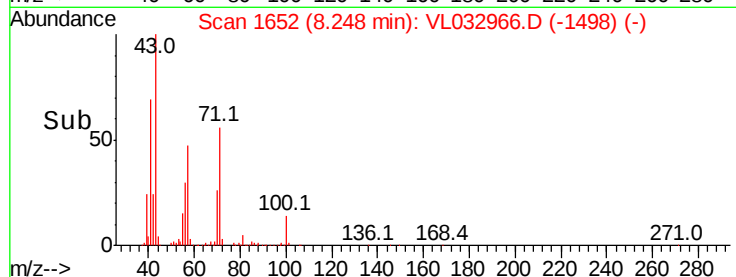
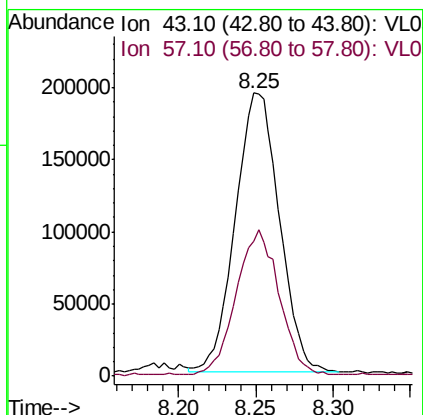
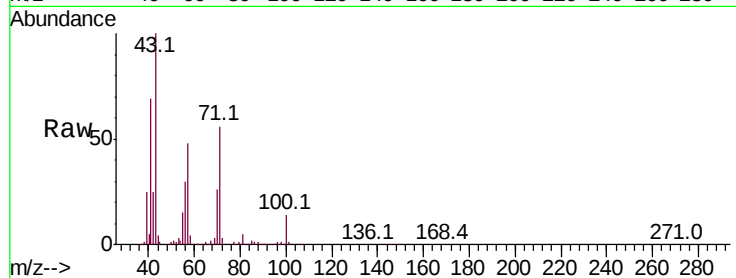




#10
Heptane
Concen: 2.528 ppbv
RT: 8.25 min Scan# 1652
Delta R.T. -0.01 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

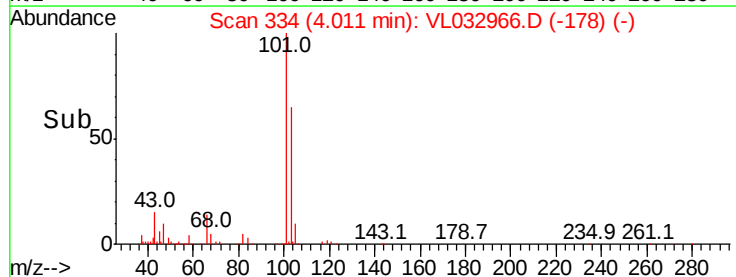
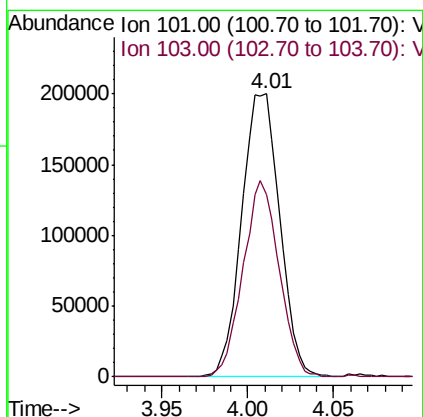
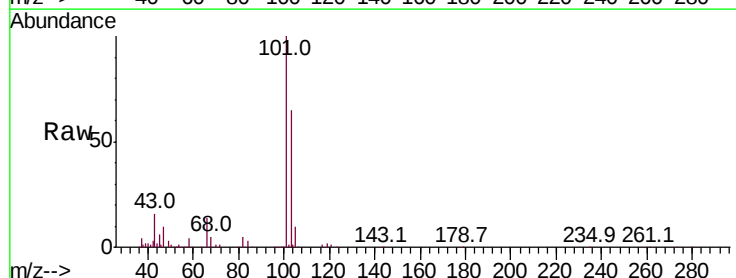
Instrument :
MSVOA_L
ClientSampleId :

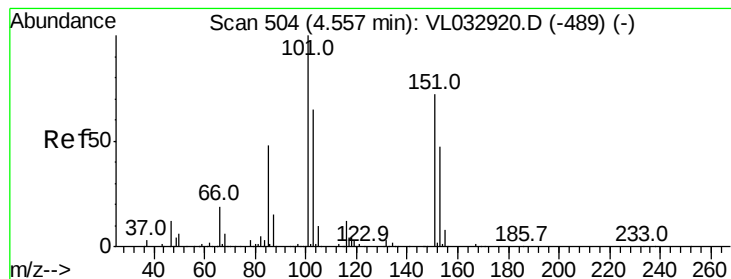
Tot Ion: 43 Resp: 381969
Ion Ratio Lower Upper
43 100
57 51.8 41.8 62.6



#11
Trichlorofluoromethane
Concen: 1.828 ppbv
RT: 4.01 min Scan# 334
Delta R.T. 0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Tgt Ion:101 Resp: 308715
Ion Ratio Lower Upper
101 100
103 64.6 52.7 79.1





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.040 ppbv

RT: 4.56 min Scan# 504

Delta R.T. 0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

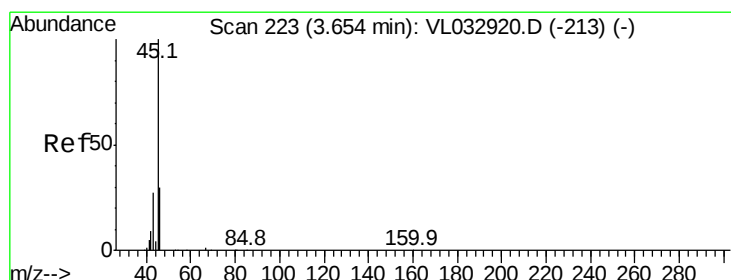
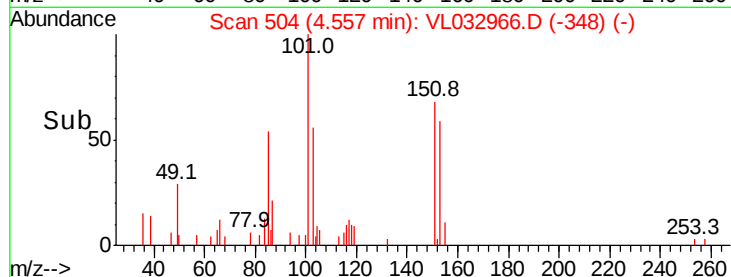
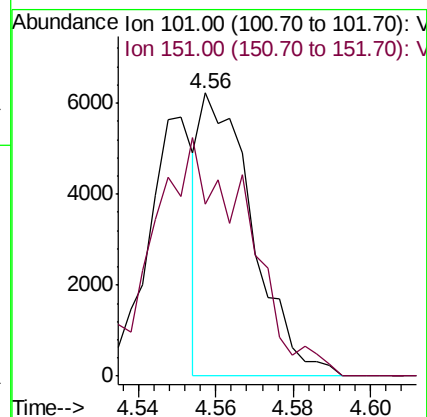
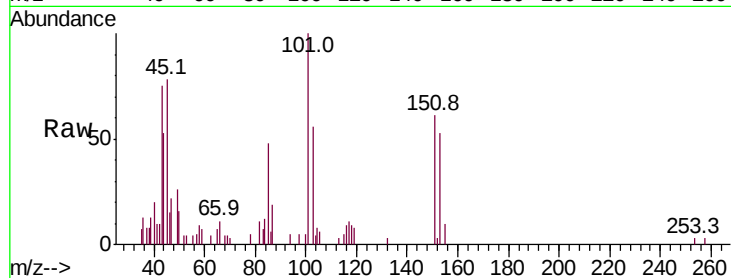
ClientSampleId :

Tot Ion:101 Resp: 5778

Ion Ratio Lower Upper

101 100

151 151.1 59.3 88.9#



#13

Ethanol

Concen: 87.052 ppbv

RT: 3.67 min Scan# 227

Delta R.T. 0.01 min

Lab File: VL032966.D

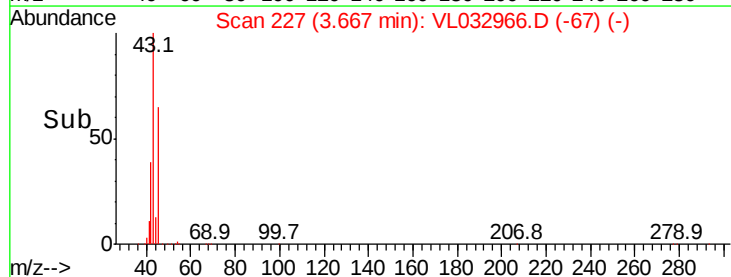
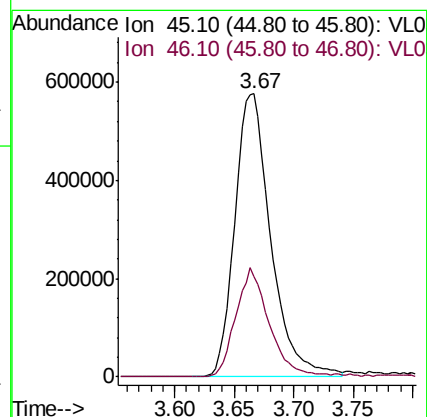
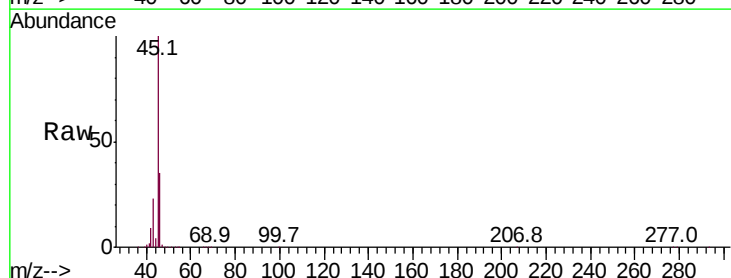
Acq: 11 Dec 2018 22:39

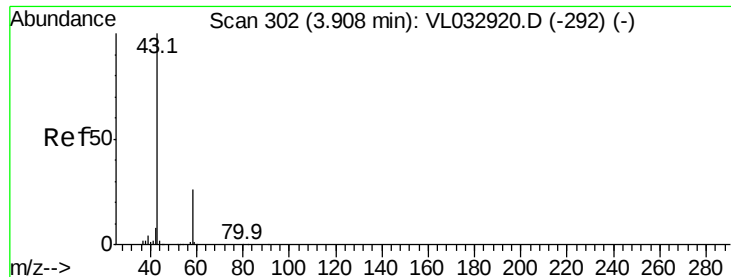
Tgt Ion: 45 Resp: 1205424

Ion Ratio Lower Upper

45 100

46 36.4 13.8 55.4





#15

Acetone

Concen: 169.526 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

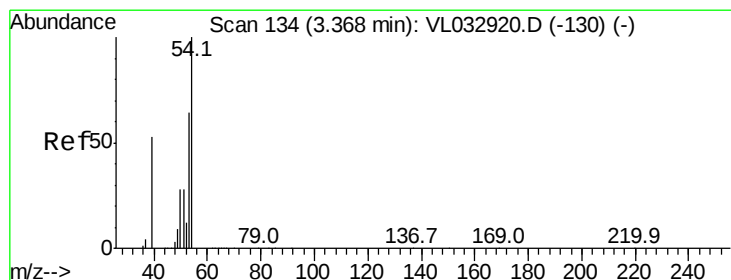
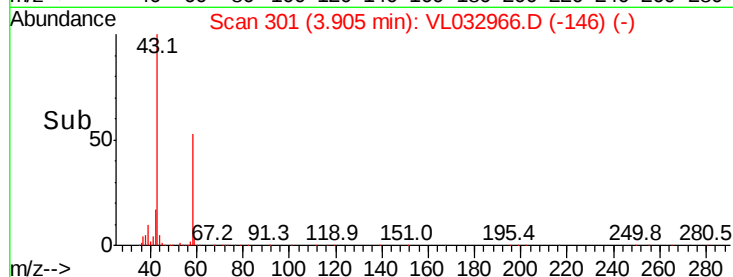
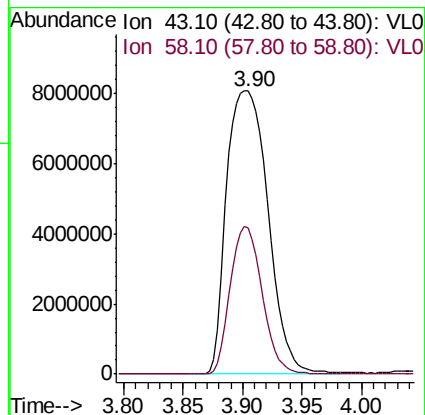
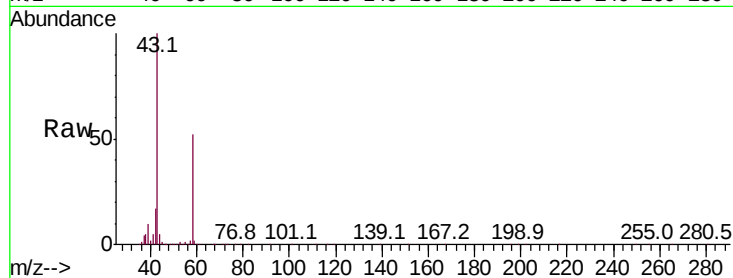
ClientSampleId :

Tot Ion: 43 Resp:19541637

Ion Ratio Lower Upper

43 100

58 40.4 20.6 30.8#



#16

1,3-Butadiene

Concen: 1.728 ppbv

RT: 3.35 min Scan# 127

Delta R.T. -0.02 min

Lab File: VL032966.D

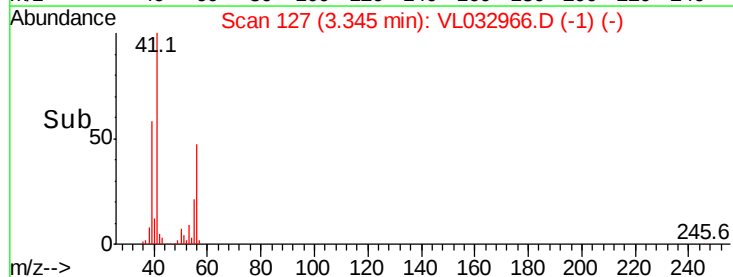
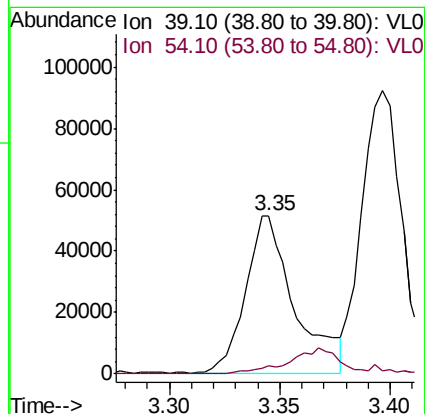
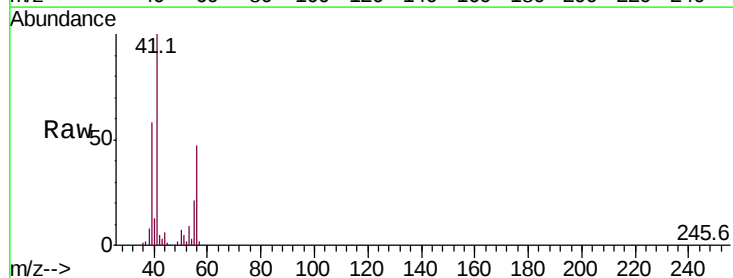
Acq: 11 Dec 2018 22:39

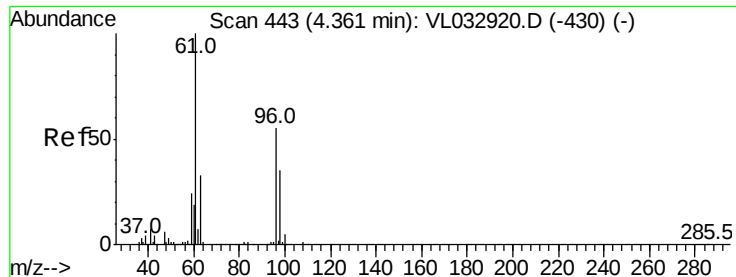
Tgt Ion: 39 Resp: 79022

Ion Ratio Lower Upper

39 100

54 19.0 72.7 109.1#



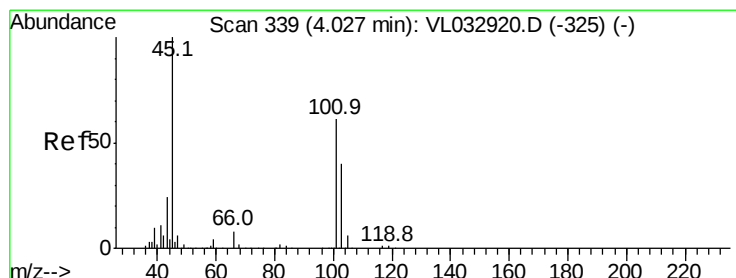
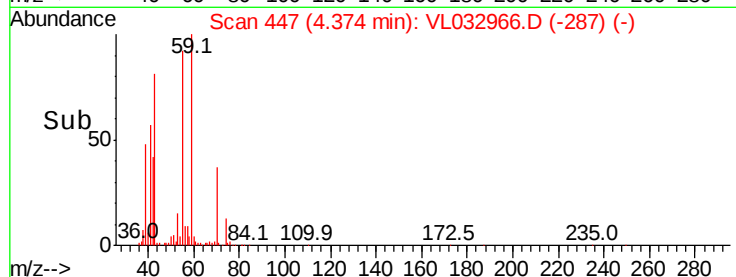
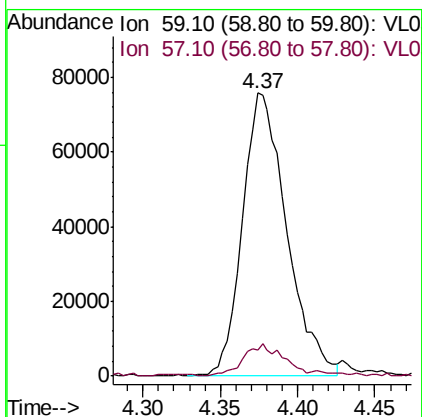
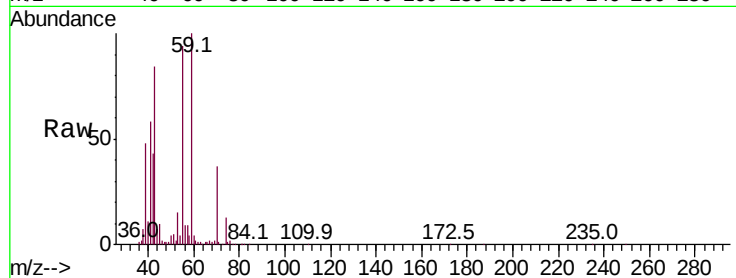


#17

tert-Butyl alcohol
Concen: 5.142 ppbv
RT: 4.37 min Scan# 447
Delta R.T. 0.01 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Instrument :
MSVOA_L
ClientSampled :

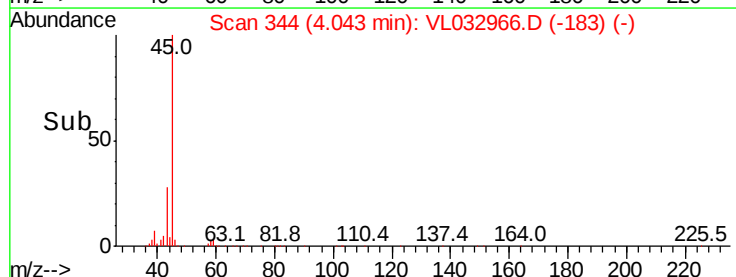
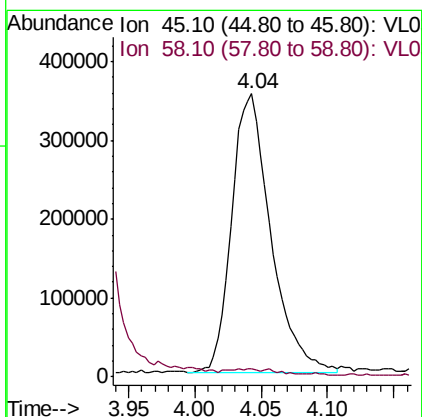
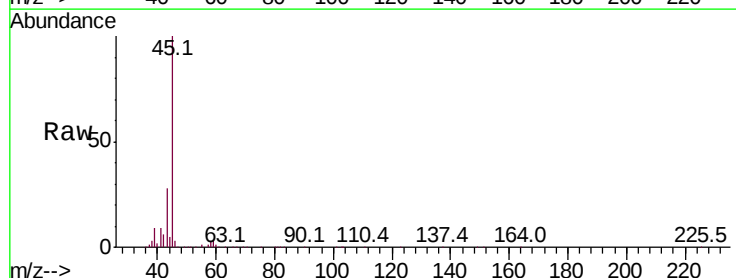
Tot Ion: 59 Resp: 150896
Ion Ratio Lower Upper
59 100
57 0.0 0.6 1.0#

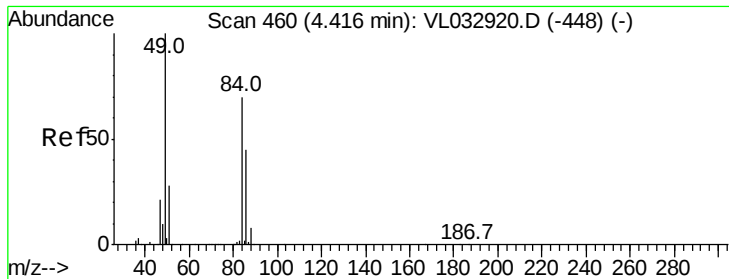


#19

Isopropyl Alcohol
Concen: 10.091 ppbv
RT: 4.04 min Scan# 344
Delta R.T. 0.02 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Tgt Ion: 45 Resp: 730475
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.2#

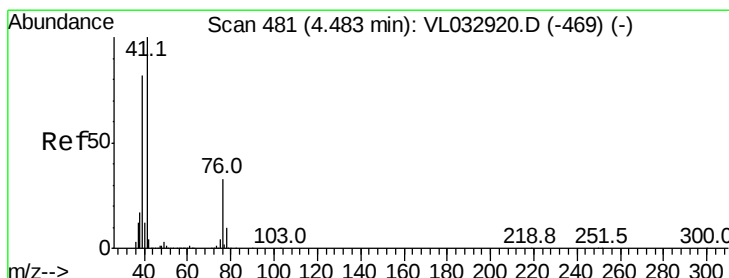
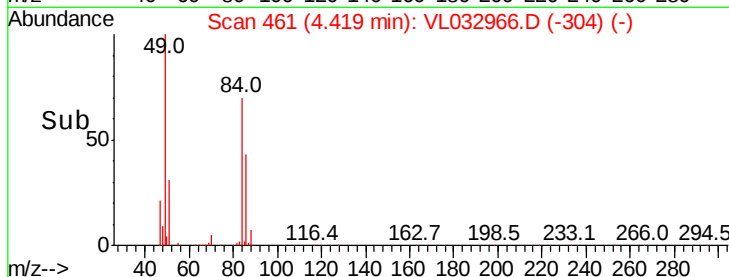
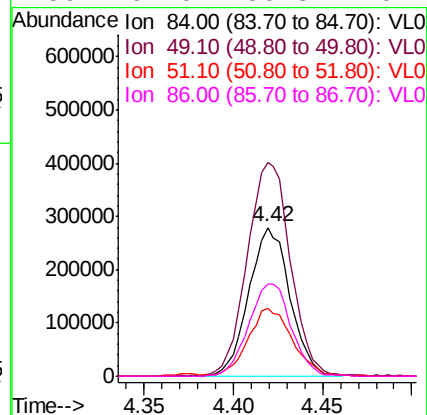
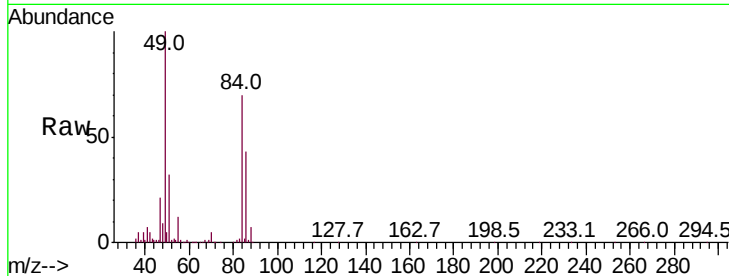




#20
Methylene Chloride
Concen: 8.020 ppbv
RT: 4.42 min Scan# 461
Delta R.T. 0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

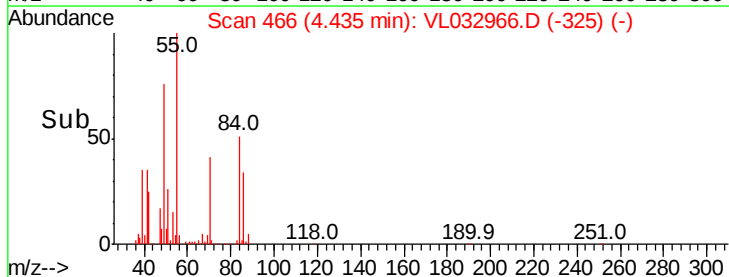
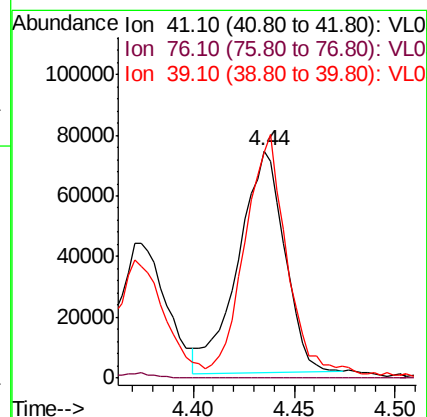
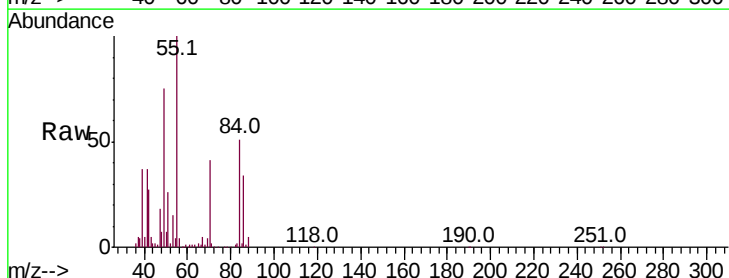
Instrument :
MSVOA_L
ClientSampleId :

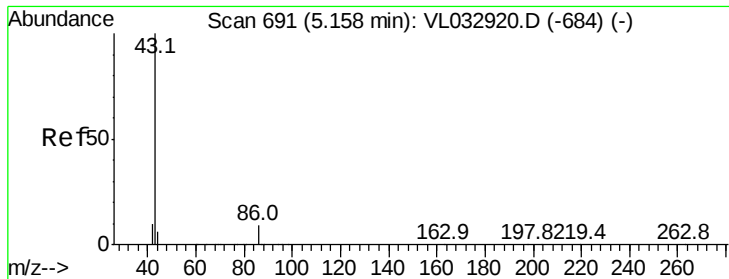
Tot Ion: 84 Resp: 451844
Ion Ratio Lower Upper
84 100
49 142.9 113.8 170.8
51 45.2 31.8 47.8
86 62.0 50.8 76.2



#21
Allyl Chloride
Concen: 1.258 ppbv
RT: 4.44 min Scan# 466
Delta R.T. -0.05 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Tgt Ion: 41 Resp: 118213
Ion Ratio Lower Upper
41 100
76 0.0 25.2 37.8#
39 99.0 65.2 97.8#





#23

Vinyl Acetate

Concen: 0.855 ppbv

RT: 5.14 min Scan# 684

Delta R.T. -0.02 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

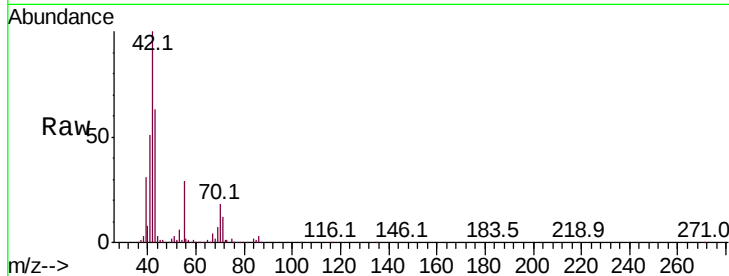
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 166897

Ion	Ratio	Lower	Upper
43	100		
86	4.3	6.6	9.8#
42	163.4	8.3	12.5#
44	2.3	4.2	6.4#



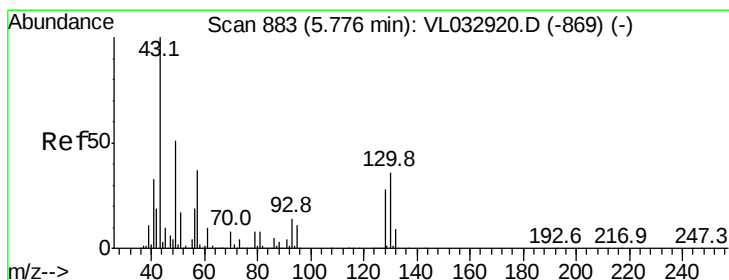
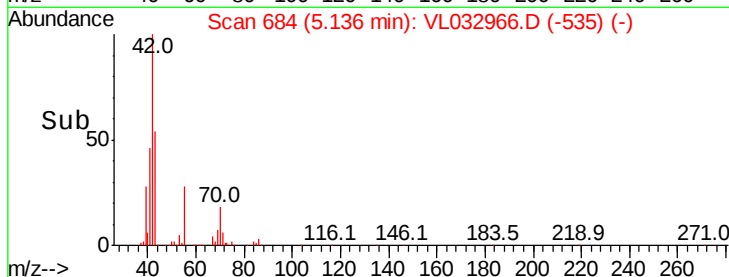
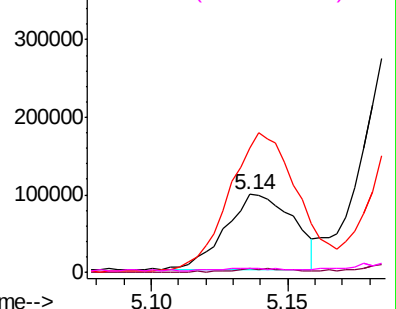
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 2.153 ppbv

RT: 5.78 min Scan# 885

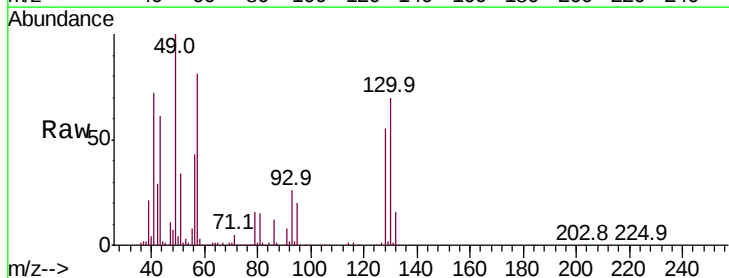
Delta R.T. 0.01 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Tgt Ion: 43 Resp: 586321

Ion	Ratio	Lower	Upper
43	100		
45	3.1	7.8	11.6#
61	0.9	7.4	11.2#
70	2.1	5.7	8.5#



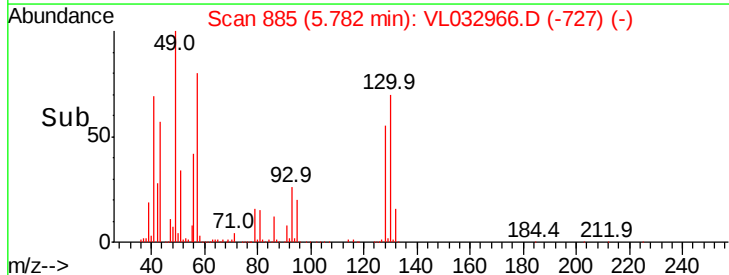
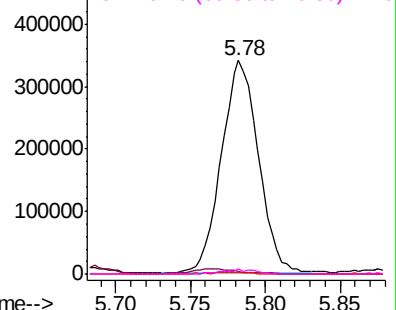
Abundance

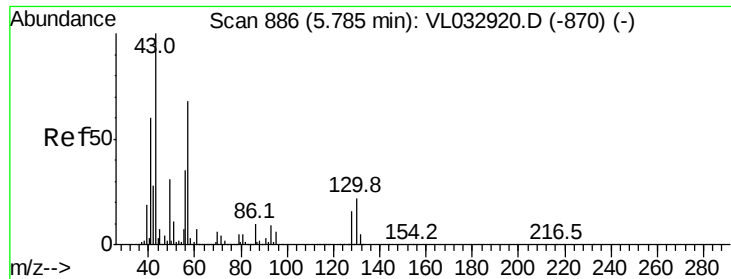
Ion 43.10 (42.80 to 43.80): VL0

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

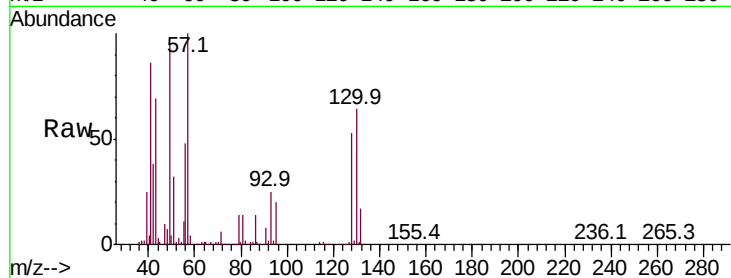




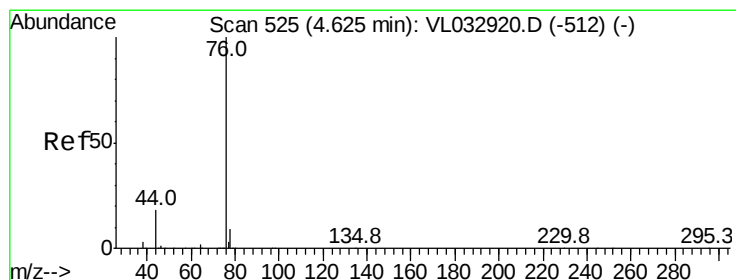
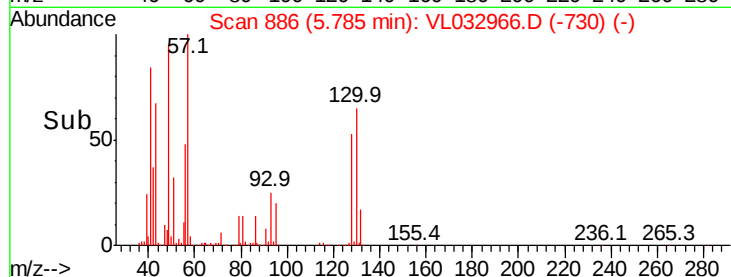
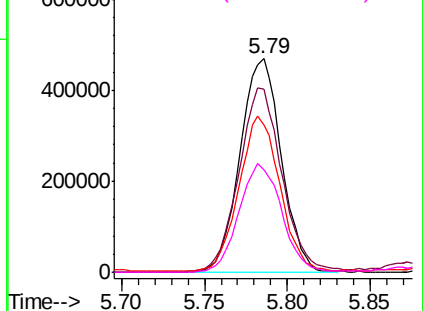
#26
Hexane
Concen: 6.459 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 57 Resp: 811968
Ion Ratio Lower Upper
57 100
41 90.5 72.2 108.2
43 72.5 171.9 257.9#
56 52.7 42.2 63.2

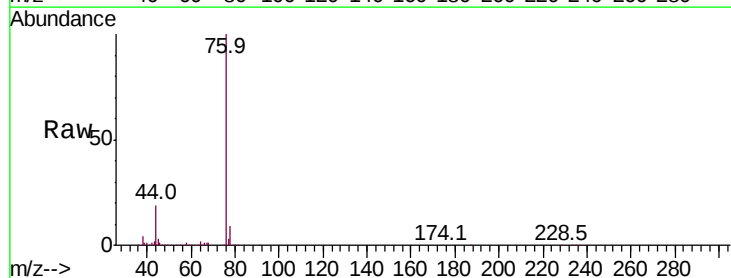


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

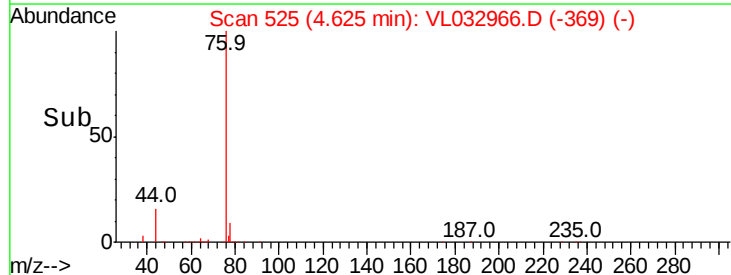
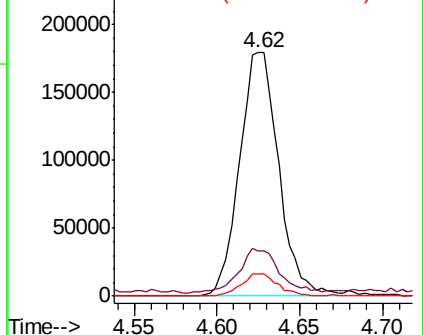


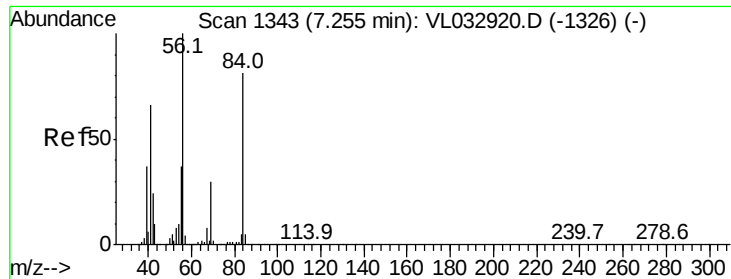
#27
Carbon Disulfide
Concen: 1.880 ppbv
RT: 4.62 min Scan# 525
Delta R.T. 0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Tgt Ion: 76 Resp: 295490
Ion Ratio Lower Upper
76 100
44 18.8 14.7 22.1
78 9.1 7.4 11.2



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

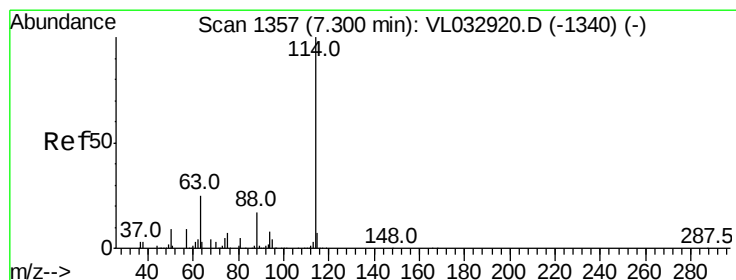
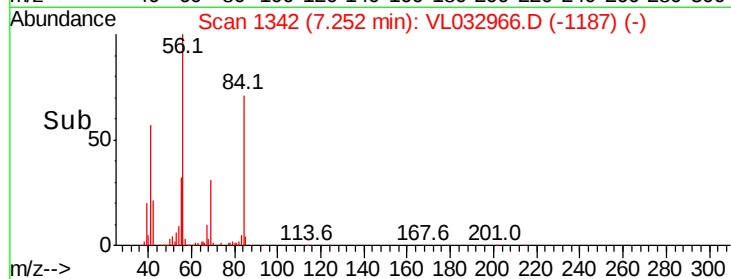
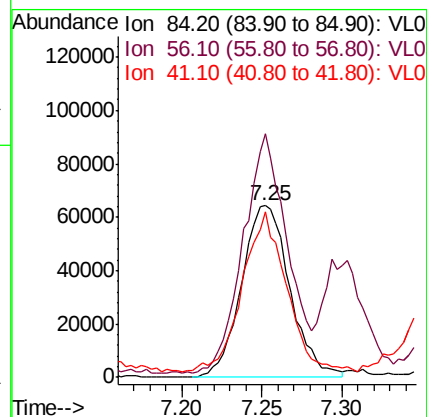
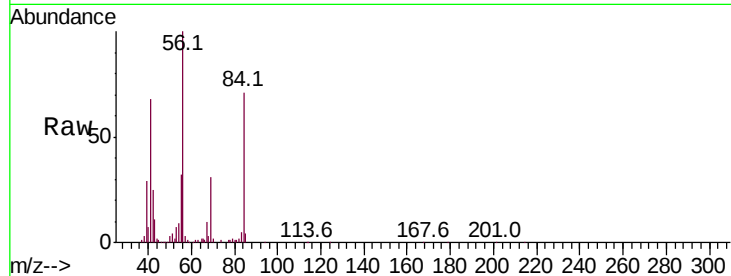




#30
Cvclohexane
Concen: 1.264 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

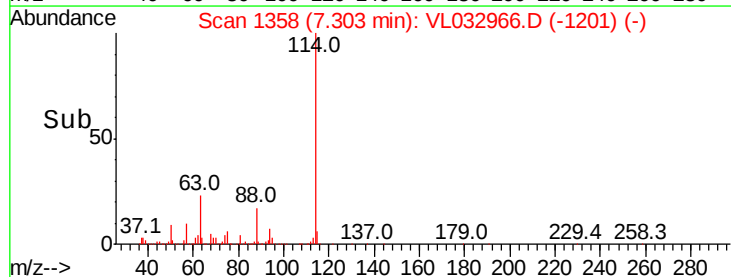
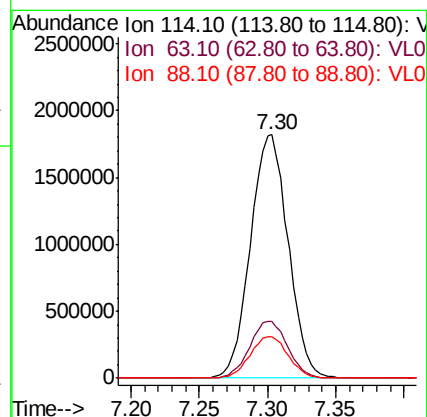
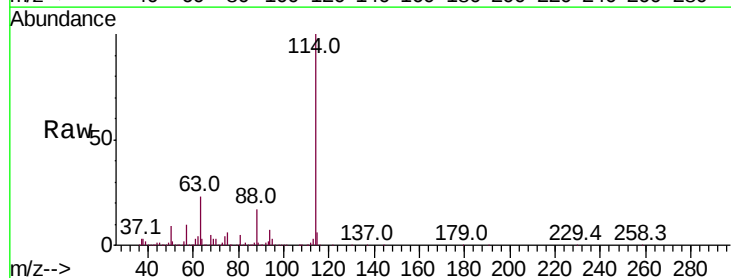
Instrument :
MSVOA_L
ClientSampleId :

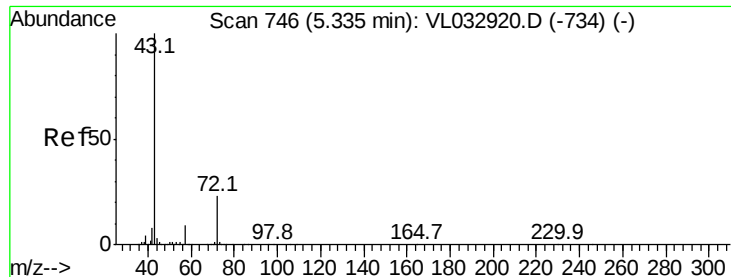
Tot Ion: 84 Resp: 131739
Ion Ratio Lower Upper
84 100
56 128.0 102.5 153.7
41 87.3 64.1 96.1



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Tgt Ion: 114 Resp: 3487898
Ion Ratio Lower Upper
114 100
63 23.5 20.1 30.1
88 17.3 14.2 21.4

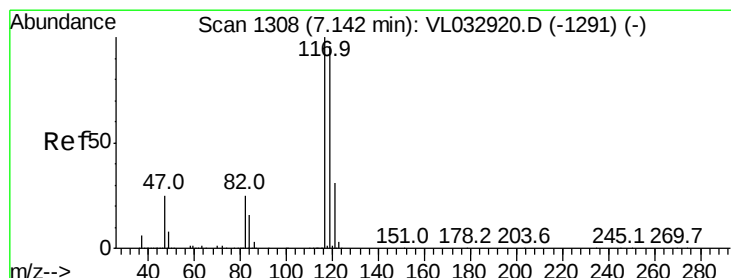
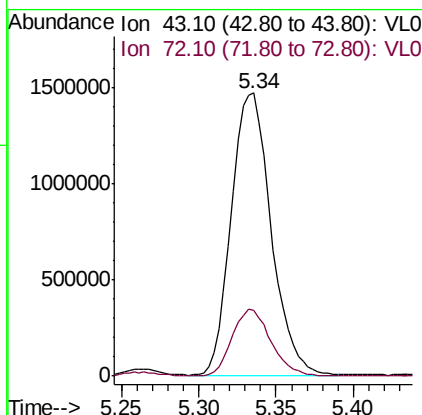
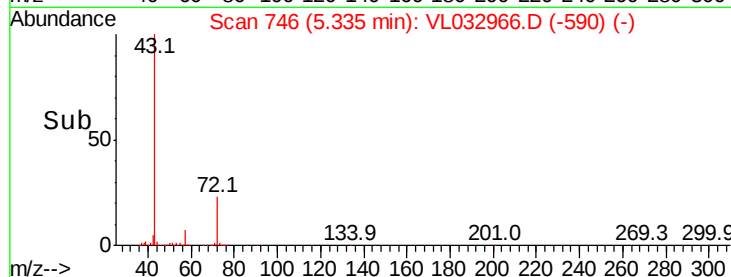
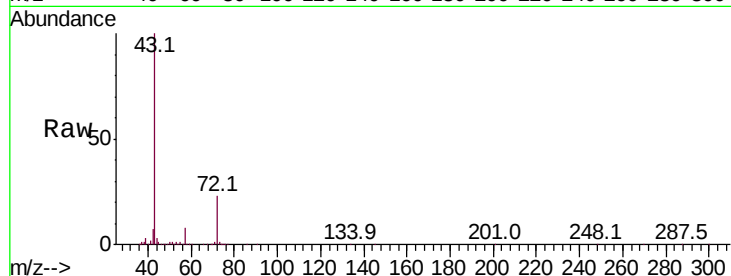




#34
2-Butanone
Concen: 17.216 ppbv
RT: 5.34 min Scan# 746
Delta R.T. 0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

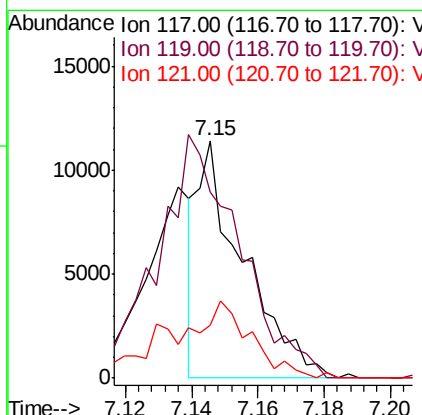
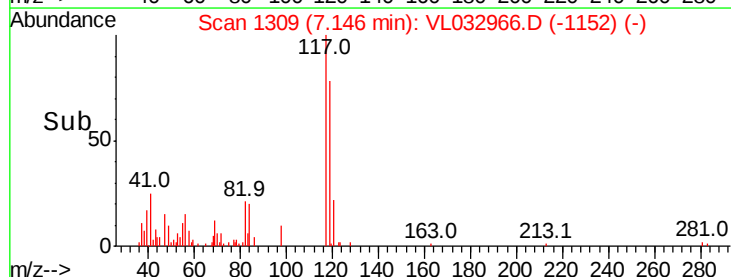
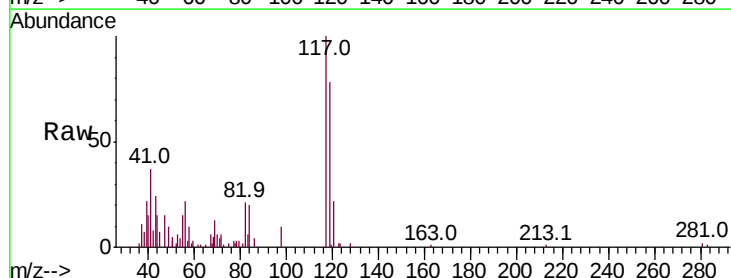
Instrument :
MSVOA_L
ClientSampleId :

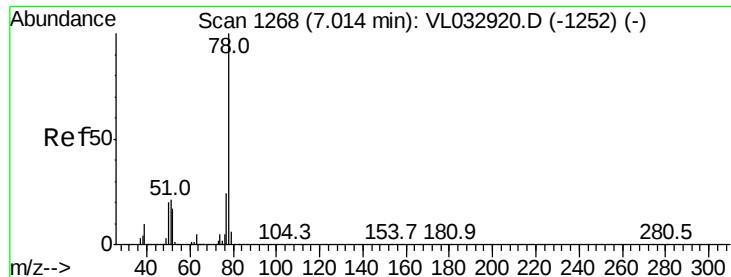
Tot Ion: 43 Resp: 2615590
Ion Ratio Lower Upper
43 100
72 23.2 18.8 28.2



#35
Carbon Tetrachloride
Concen: 0.040 ppbv
RT: 7.15 min Scan# 1309
Delta R.T. 0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Tgt Ion: 117 Resp: 10912
Ion Ratio Lower Upper
117 100
119 79.7 76.5 114.7
121 22.4 24.5 36.7#





#36

Benzene

Concen: 3.737 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

ClientSampleId :

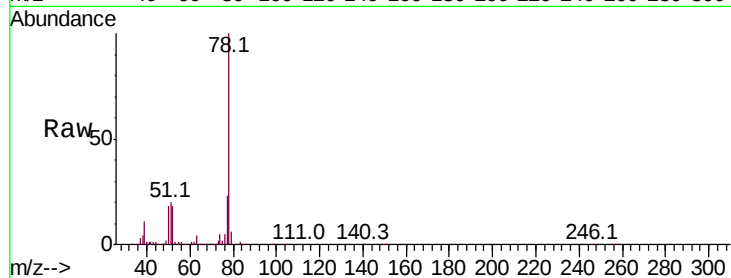
Tot Ion: 78 Resp: 958712

Ion Ratio Lower Upper

78 100

77 23.1 18.9 28.3

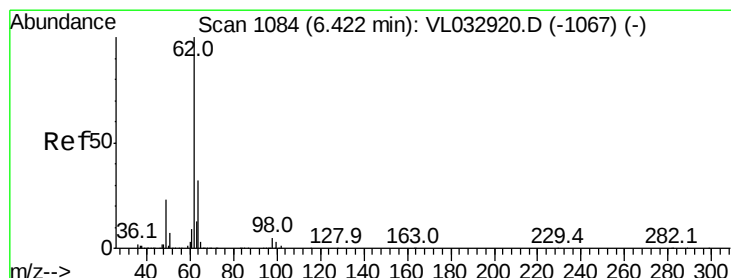
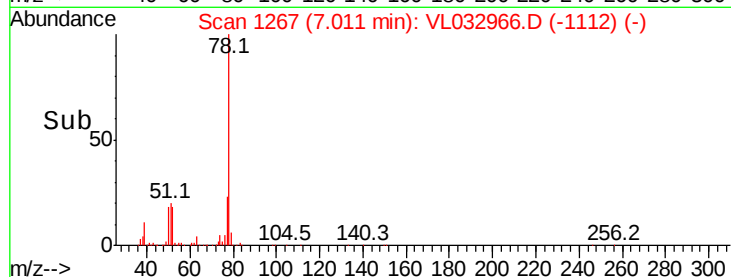
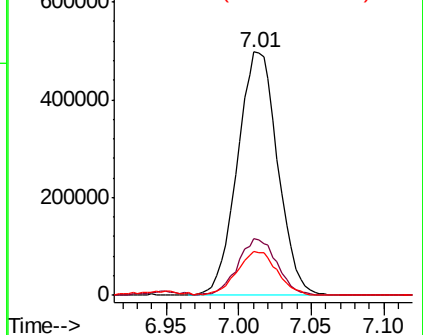
50 18.2 16.1 24.1



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: 0.036 ppbv

RT: 6.42 min Scan# 1084

Delta R.T. 0.00 min

Lab File: VL032966.D

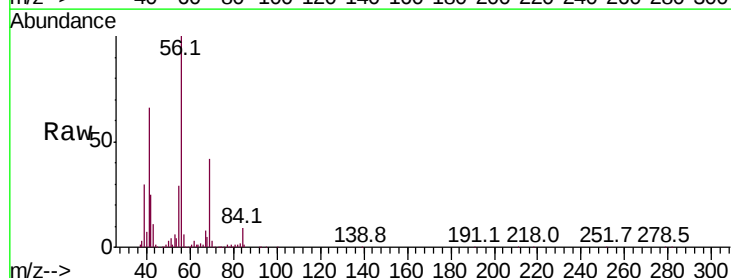
Acq: 11 Dec 2018 22:39

Tgt Ion: 62 Resp: 6374

Ion Ratio Lower Upper

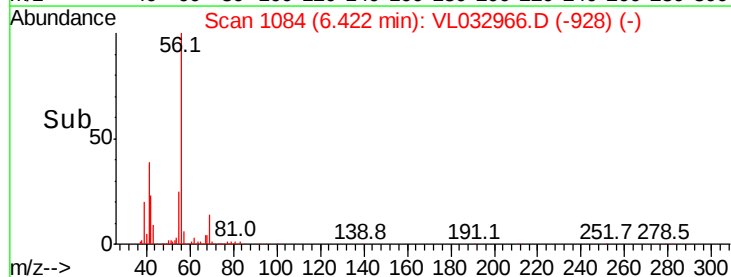
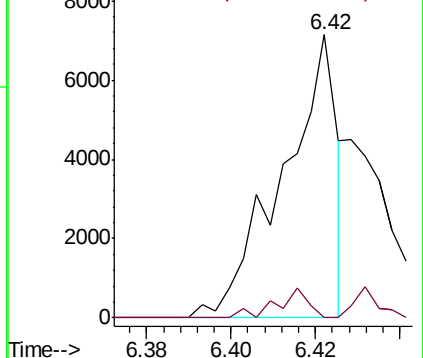
62 100

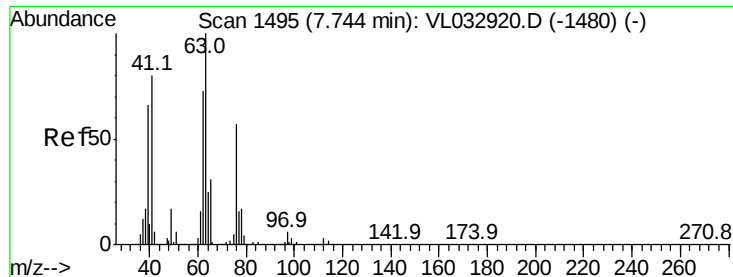
98 0.0 4.3 6.5#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#39

1,2-Dichloropropane

Concen: 8.352 ppbv

RT: 7.30 min Scan# 1358

Delta R.T. -0.44 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :
MSVOA_L
ClientSampleId :

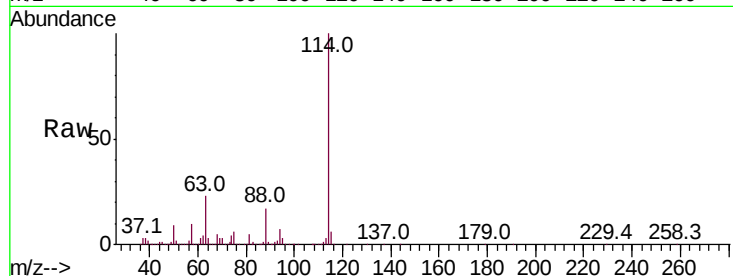
Tot Ion: 63 Resp: 812621

Ion Ratio Lower Upper

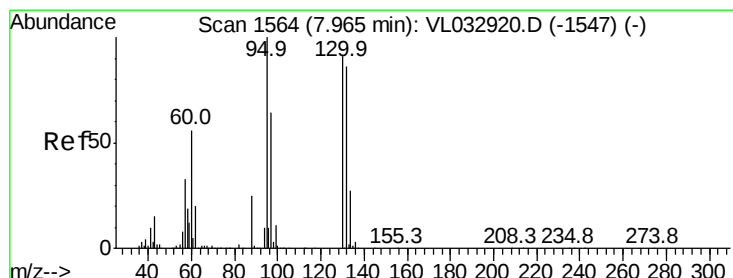
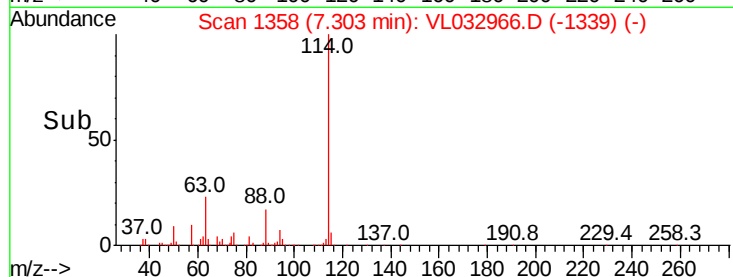
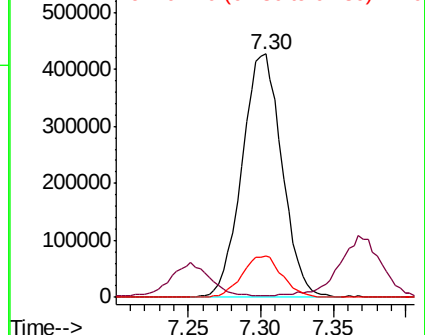
63 100

41 0.0 63.9 95.9#

62 17.1 58.8 88.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 4.112 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Tgt Ion: 88 Resp: 147349

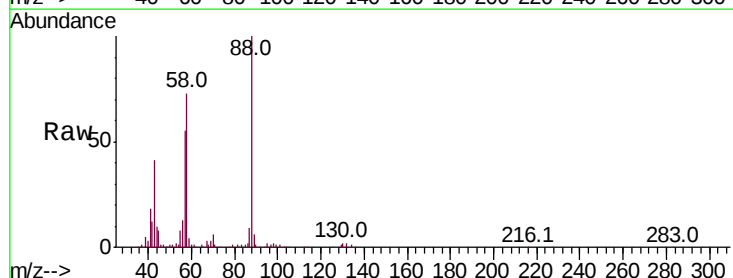
Ion Ratio Lower Upper

88 100

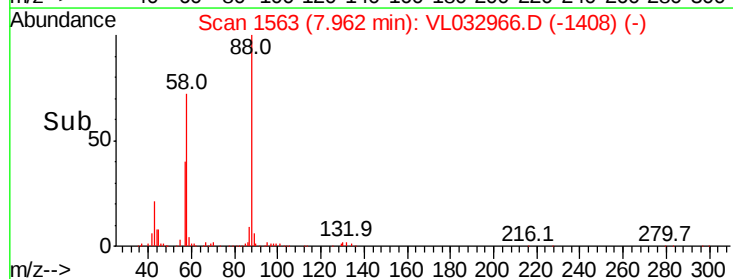
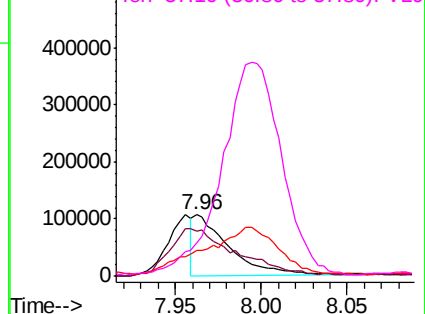
58 151.6 107.4 161.2

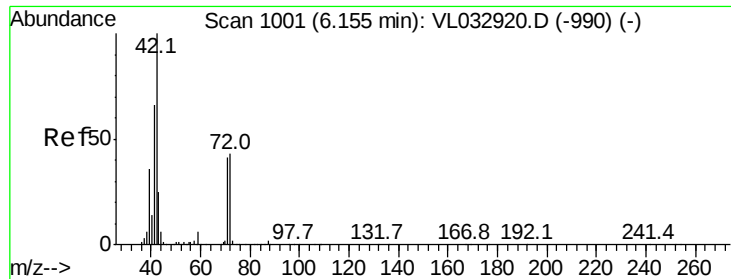
43 176.7 0.0 0.0#

57 619.5 0.0 0.0#



Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 0.919 ppbv

RT: 6.16 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

ClientSampleId :

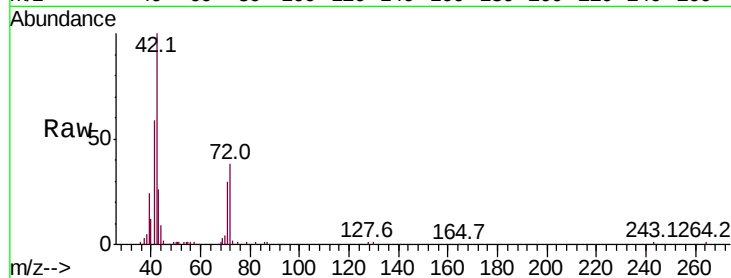
Tot Ion: 42 Resp: 86798

Ion Ratio Lower Upper

42 100

72 47.0 32.9 49.3

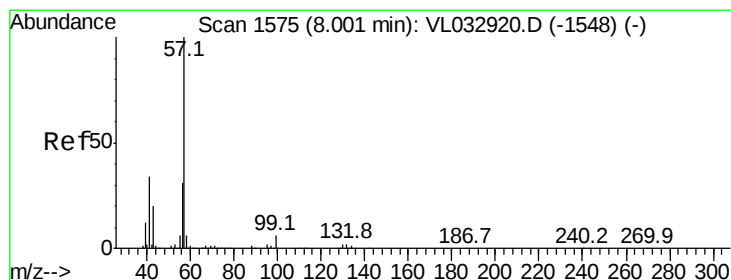
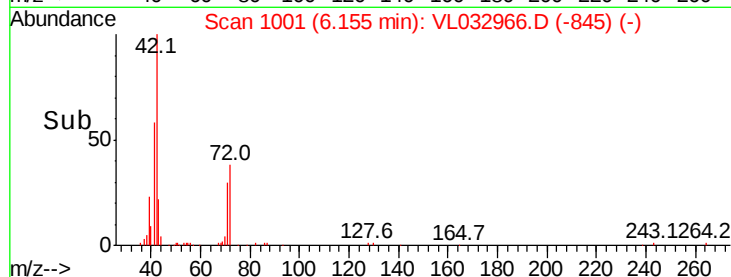
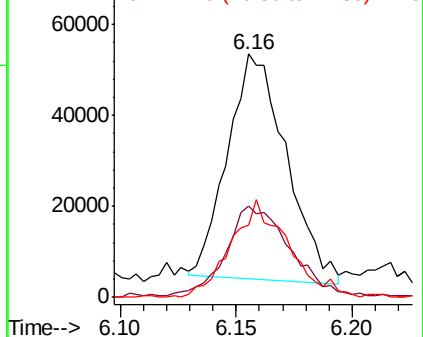
71 42.8 32.0 48.0



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 2.068 ppbv

RT: 7.99 min Scan# 1573

Delta R.T. -0.01 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

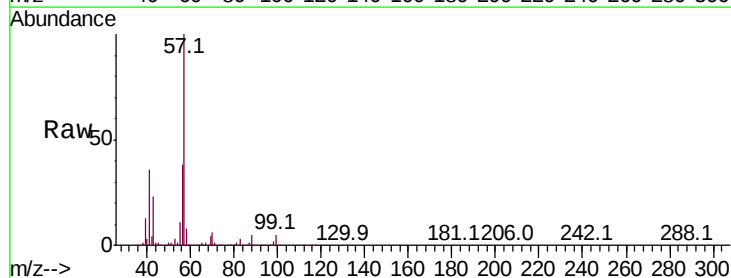
Tgt Ion: 57 Resp: 900360

Ion Ratio Lower Upper

57 100

41 34.8 27.0 40.4

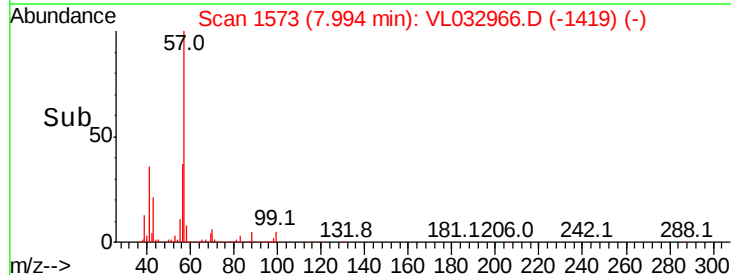
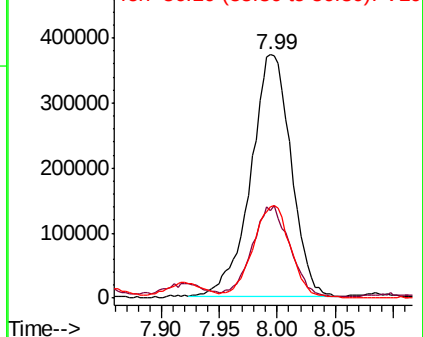
56 36.1 24.6 37.0

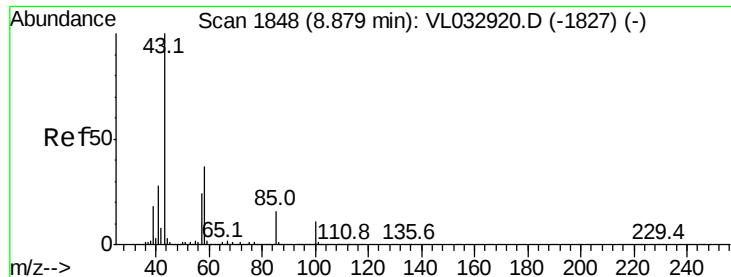


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

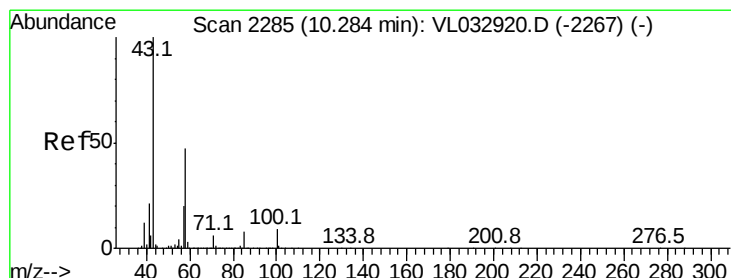
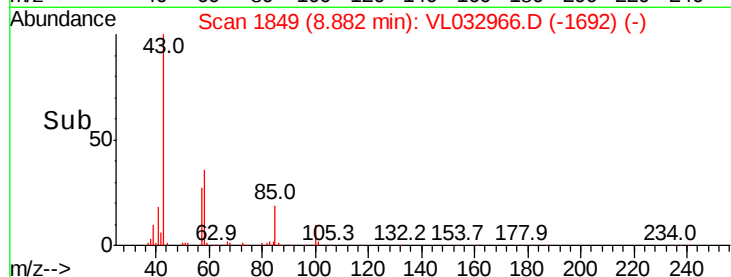
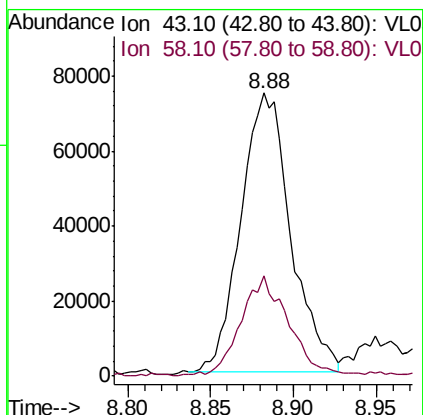
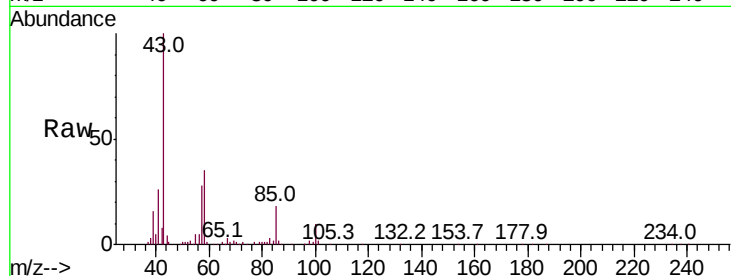




#50
4-Methyl-2-Pentanone
Concen: 0.640 ppbv
RT: 8.88 min Scan# 1849
Delta R.T. 0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

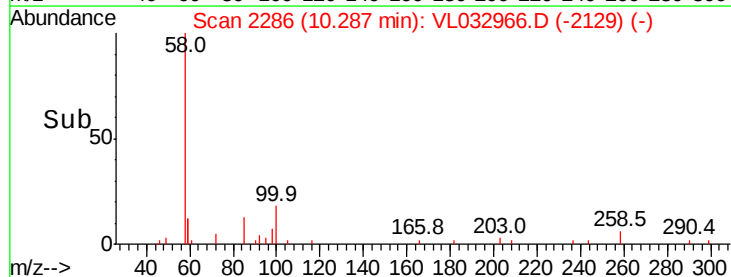
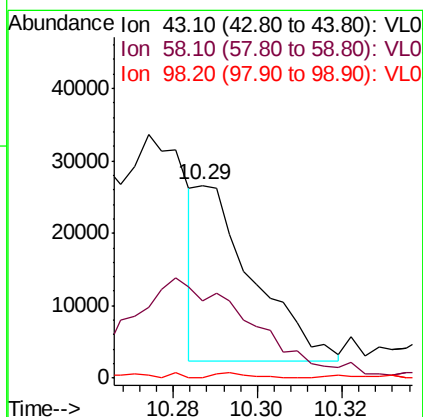
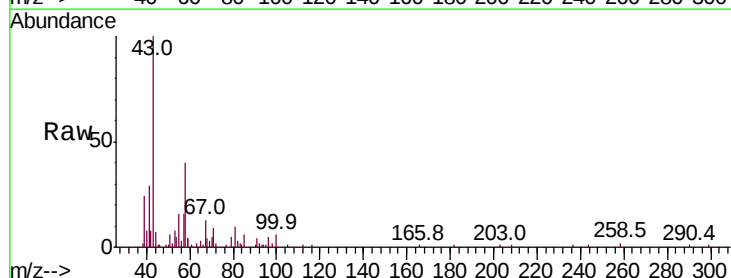
Instrument :
MSVOA_L
ClientSampleId :

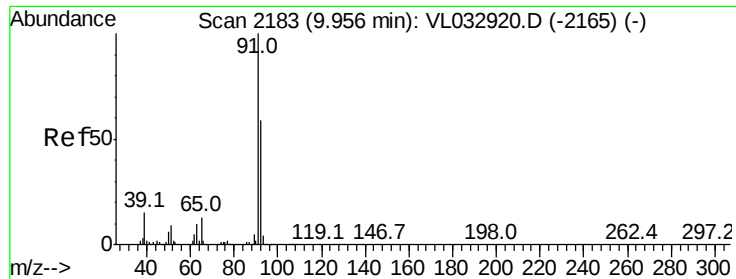
Tot Ion: 43 Resp: 155410
Ion Ratio Lower Upper
43 100
58 34.7 29.0 43.4



#51
2-Hexanone
Concen: 0.135 ppbv
RT: 10.29 min Scan# 2286
Delta R.T. 0.00 min
Lab File: VL032966.D
Acq: 11 Dec 2018 22:39

Tgt Ion: 43 Resp: 22324
Ion Ratio Lower Upper
43 100
58 134.0 38.1 57.1#
98 0.0 0.4 0.6#





#53

Toluene

Concen: 11.138 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

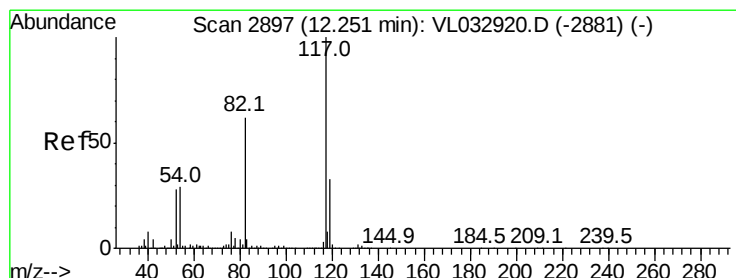
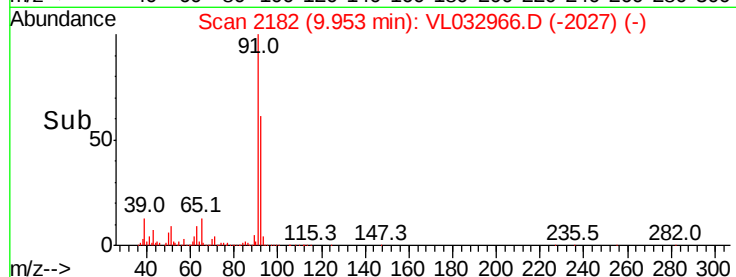
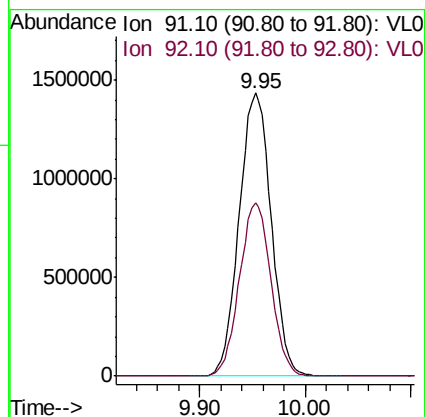
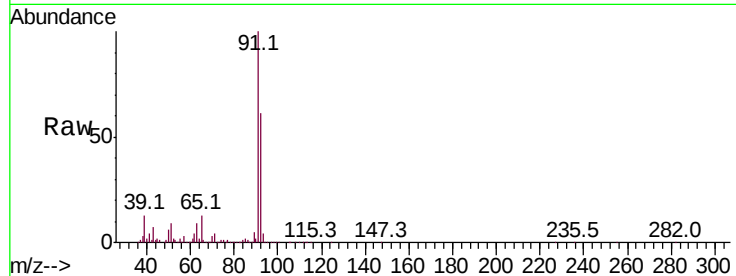
ClientSampled :

Tot Ion: 91 Resp: 3030446

Ion Ratio Lower Upper

91 100

92 60.2 47.4 71.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

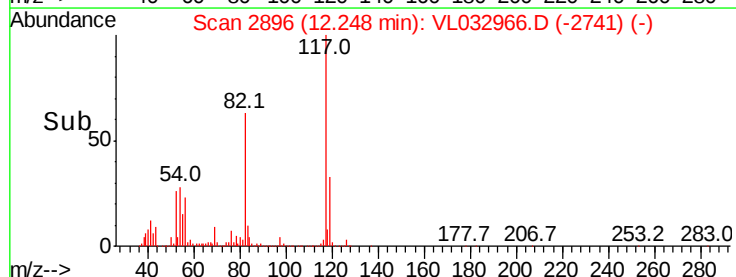
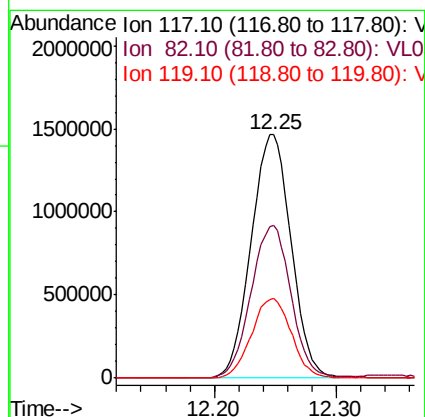
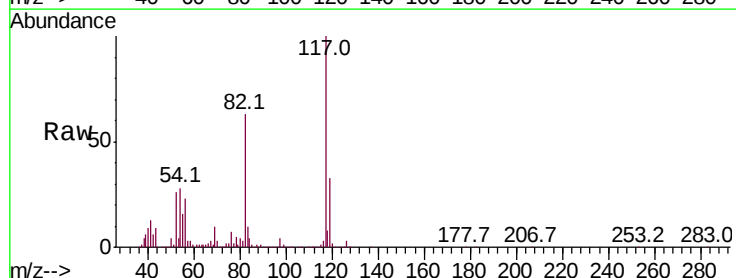
Tgt Ion: 117 Resp: 3317730

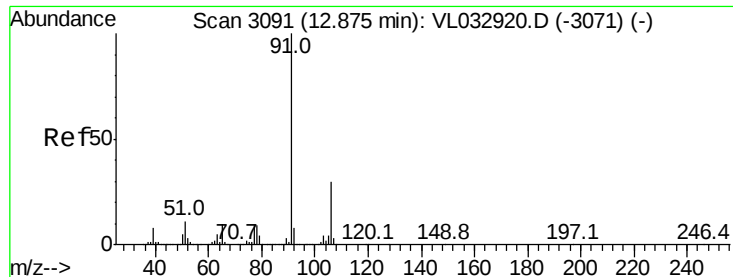
Ion Ratio Lower Upper

117 100

82 62.8 47.8 71.8

119 32.6 43.1 64.7#





#58

Ethyl Benzene

Concen: 1.868 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. -0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

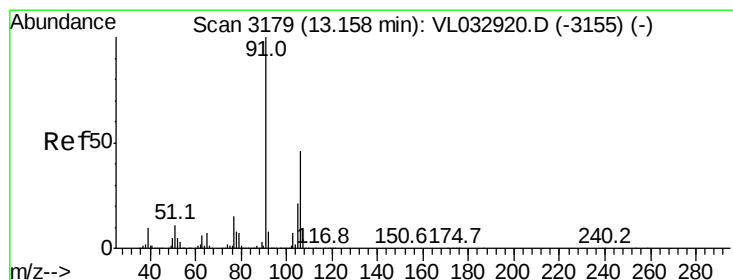
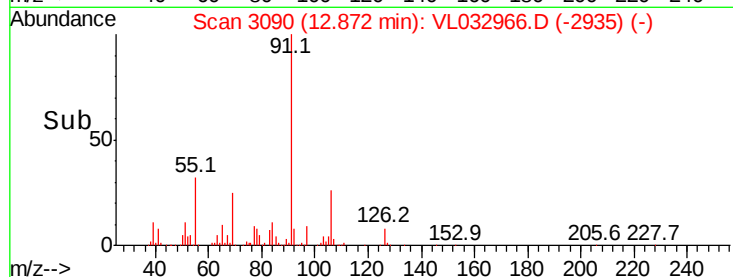
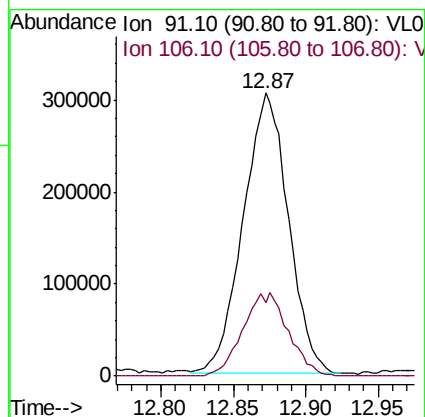
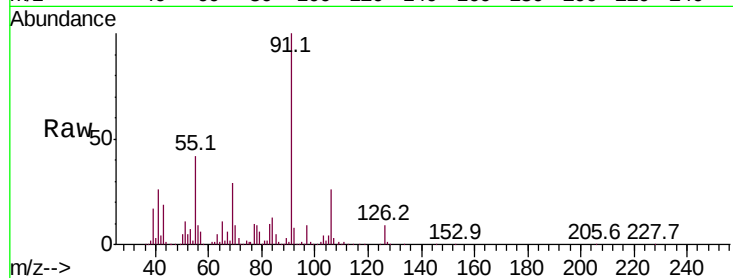
ClientSampleId :

Tot Ion: 91 Resp: 660972

Ion Ratio Lower Upper

91 100

106 26.0 23.9 35.9



#59

m/p-Xylene

Concen: 4.490 ppbv

RT: 13.13 min Scan# 3169

Delta R.T. -0.03 min

Lab File: VL032966.D

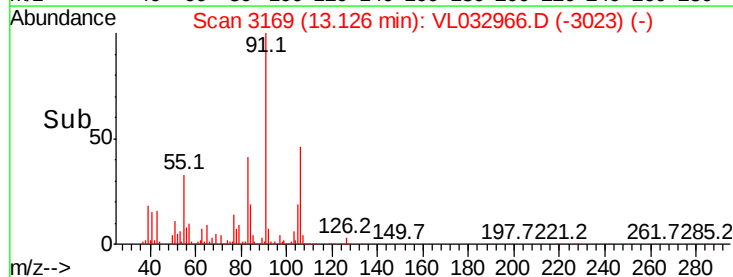
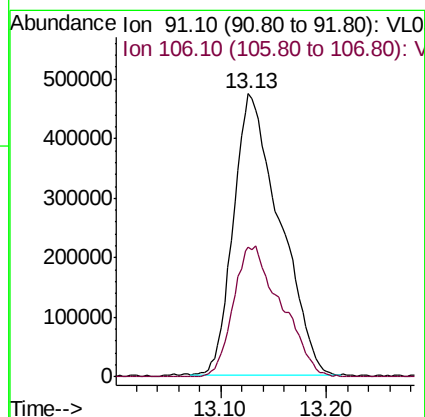
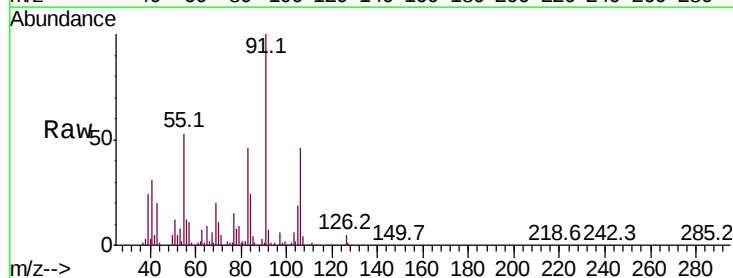
Acq: 11 Dec 2018 22:39

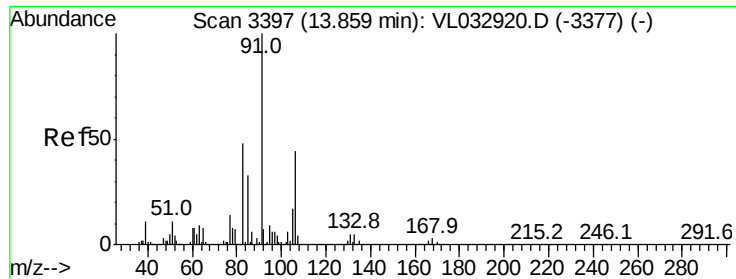
Tgt Ion: 91 Resp: 1440882

Ion Ratio Lower Upper

91 100

106 48.2 0.0 0.0#





#60

o-Xylene

Concen: 1.501 ppbv

RT: 13.86 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

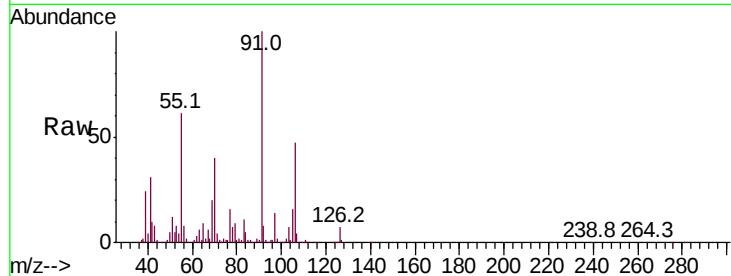
ClientSampled :

Tot Ion: 91 Resp: 486532

Ion Ratio Lower Upper

91 100

106 45.0 21.9 65.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

250000

200000

150000

100000

50000

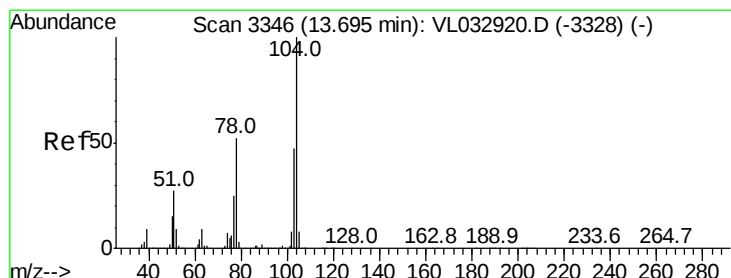
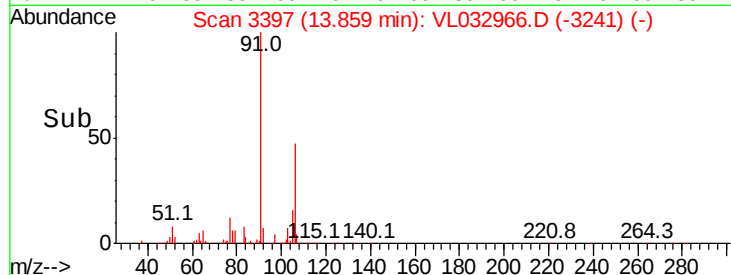
0

13.80

13.86

13.90

Time-->



#61

Styrene

Concen: 0.728 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. -0.01 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

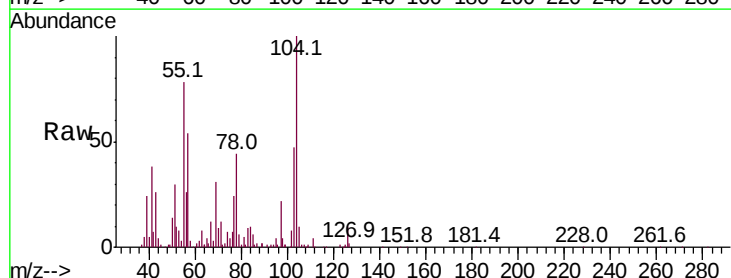
Tgt Ion: 104 Resp: 157011

Ion Ratio Lower Upper

104 100

78 50.8 42.0 63.0

103 46.9 38.3 57.5



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

100000

80000

60000

40000

20000

0

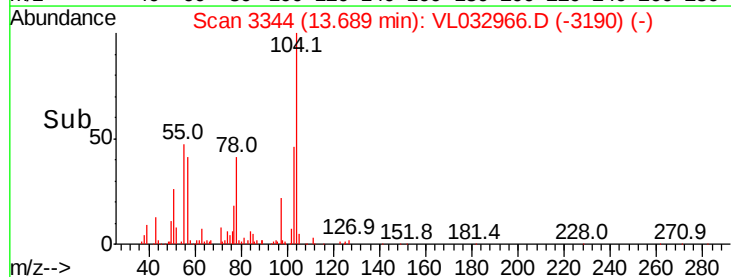
13.60

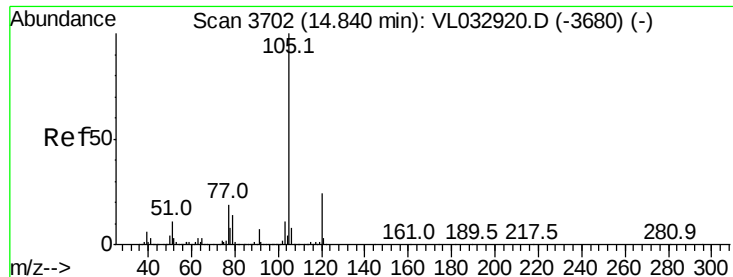
13.65

13.70

13.75

Time-->





#62

Isopropylbenzene

Concen: 20.527 ppbv

RT: 14.84 min Scan# 3701

Delta R.T. -0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

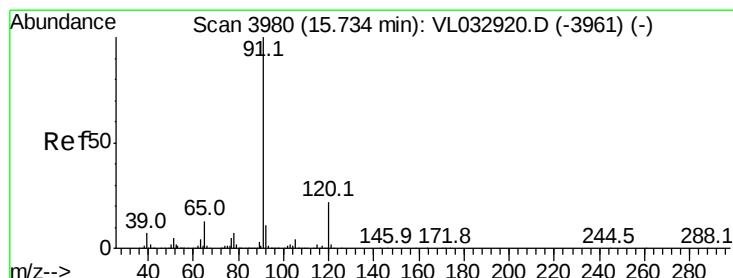
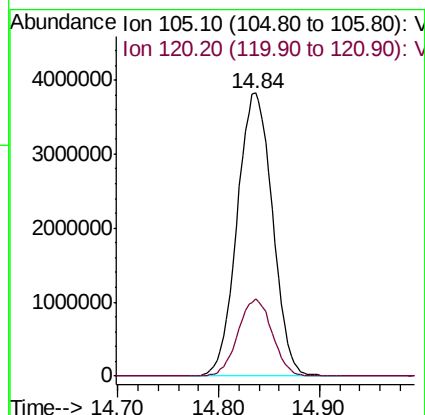
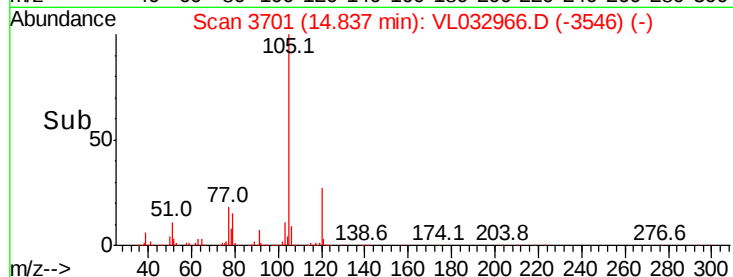
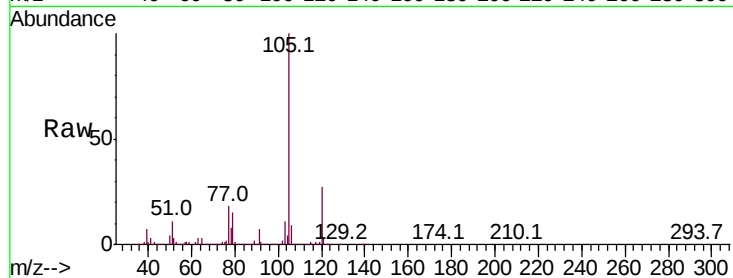
ClientSampleId :

Tot Ion:105 Resp: 9280314

Ion Ratio Lower Upper

105 100

120 26.5 20.3 30.5



#64

n-propylbenzene

Concen: 0.068 ppbv

RT: 15.73 min Scan# 3980

Delta R.T. 0.00 min

Lab File: VL032966.D

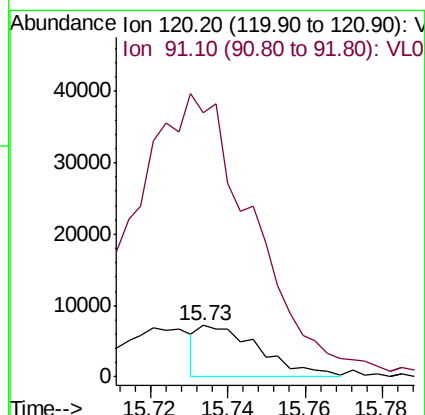
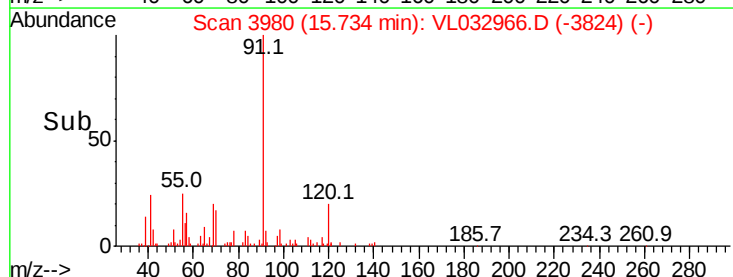
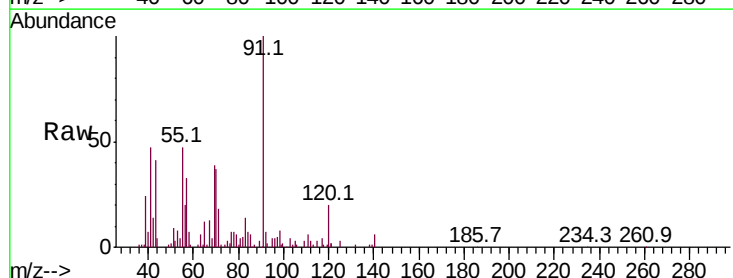
Acq: 11 Dec 2018 22:39

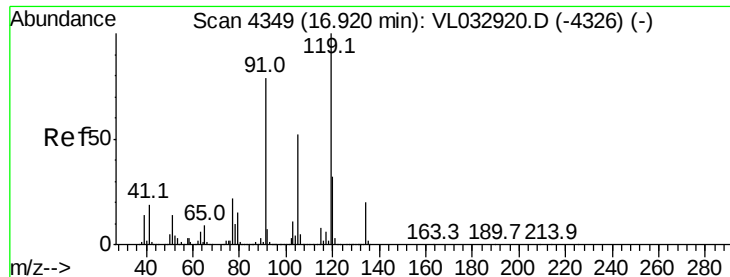
Tgt Ion:120 Resp: 7939

Ion Ratio Lower Upper

120 100

91 1091.3 380.4 570.6#





#65

tert-Butylbenzene

Concen: 0.048 ppbv

RT: 16.93 min Scan# 4353

Delta R.T. 0.01 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

ClientSampled :

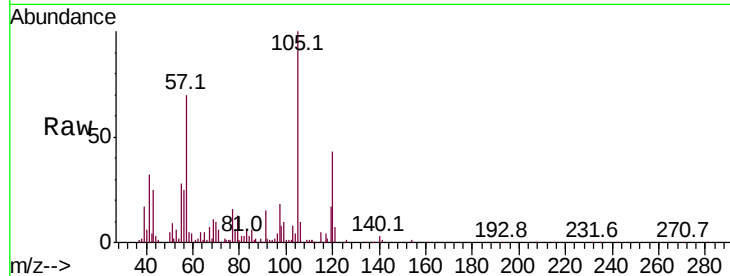
Tot Ion:119 Resp: 20302

Ion Ratio Lower Upper

119 100

91 186.0 64.5 96.7#

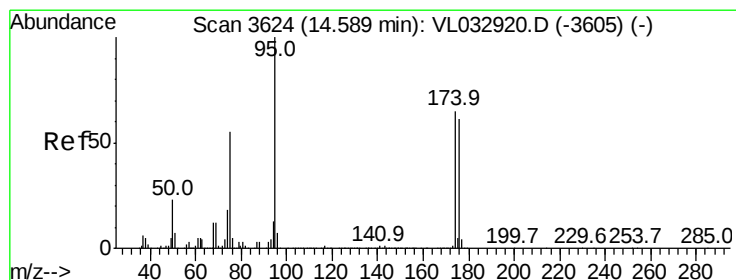
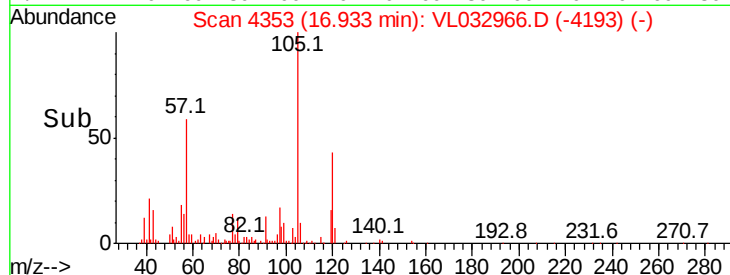
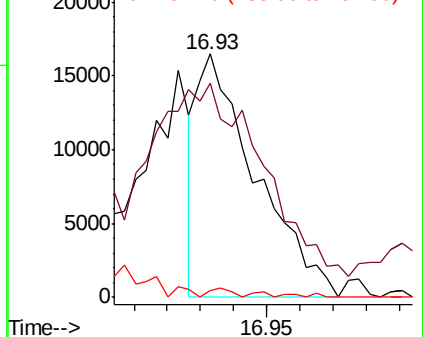
134 0.0 15.7 23.5#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.165 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

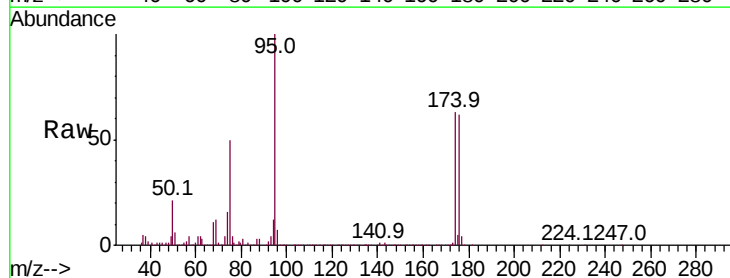
Tgt Ion: 95 Resp: 2491603

Ion Ratio Lower Upper

95 100

174 66.0 51.4 77.0

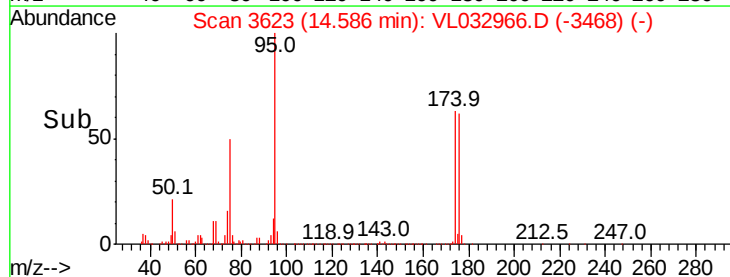
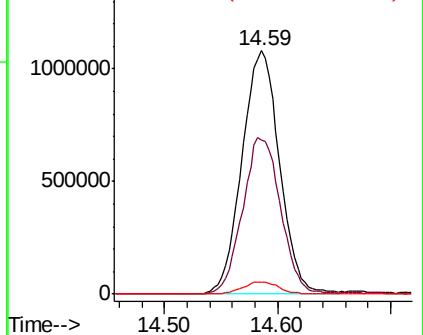
175 5.0 3.8 5.6

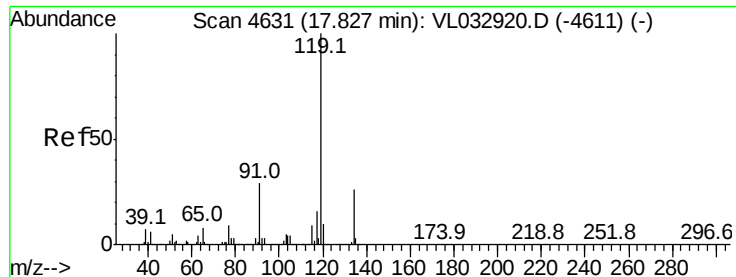


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

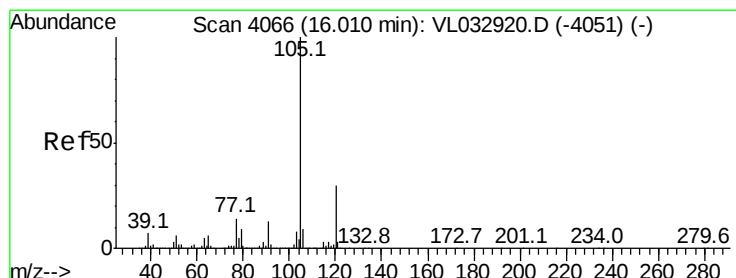
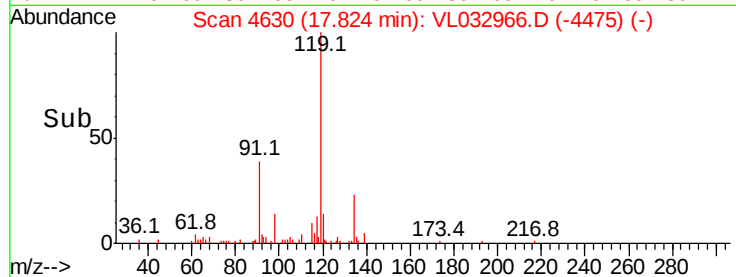
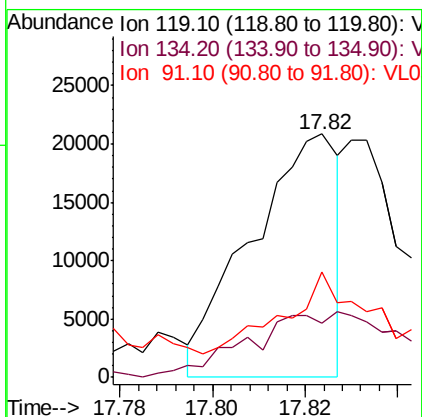
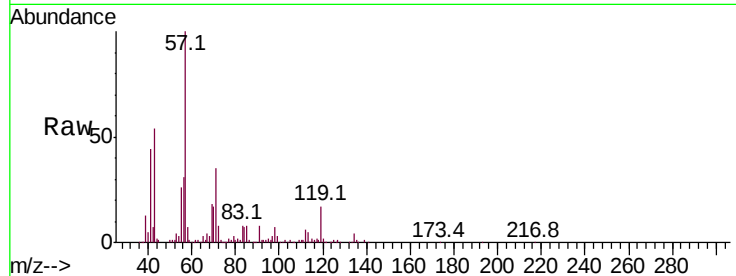




#69
 p-Isopropyltoluene
 Concen: 0.055 ppbv
 RT: 17.82 min Scan# 4630
 Delta R.T. -0.00 min
 Lab File: VL032966.D
 Acq: 11 Dec 2018 22:39

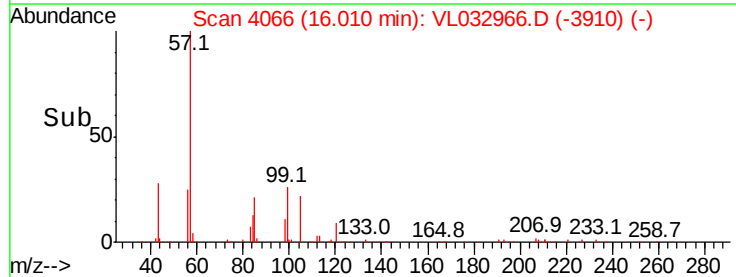
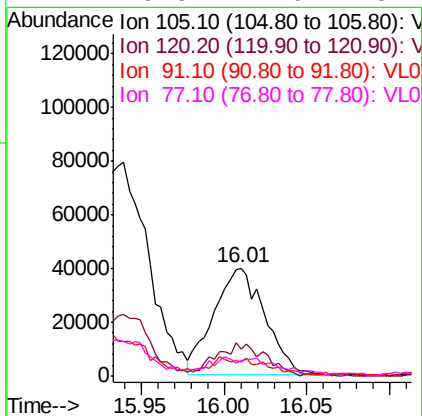
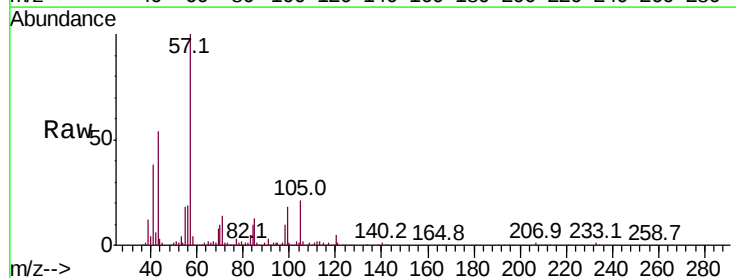
Instrument :
 MSVOA_L
 ClientSampleId :

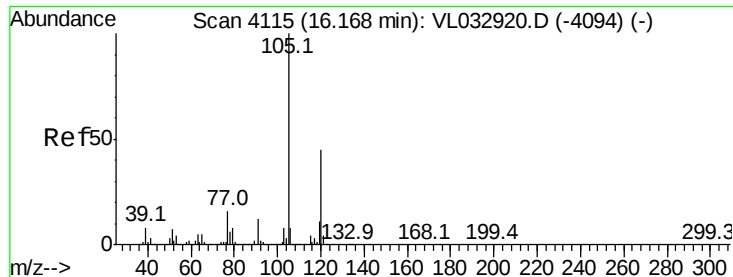
Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.2	30.2#
91	47.9	22.9	34.3#



#72
 4-Ethyltoluene
 Concen: 0.236 ppbv
 RT: 16.01 min Scan# 4066
 Delta R.T. 0.00 min
 Lab File: VL032966.D
 Acq: 11 Dec 2018 22:39

Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.7	23.0	34.4
91	18.1	10.4	15.6#
77	18.6	11.0	16.4#





#73

1,3,5-Trimethylbenzene

Concen: 0.078 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. -0.01 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

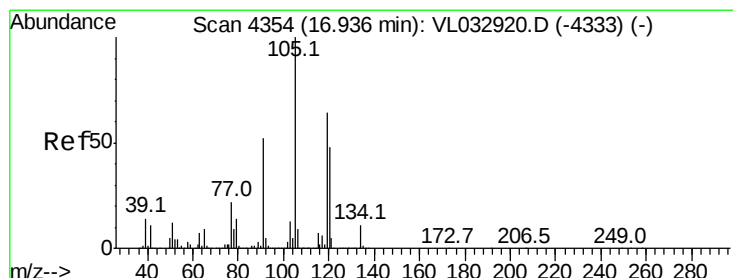
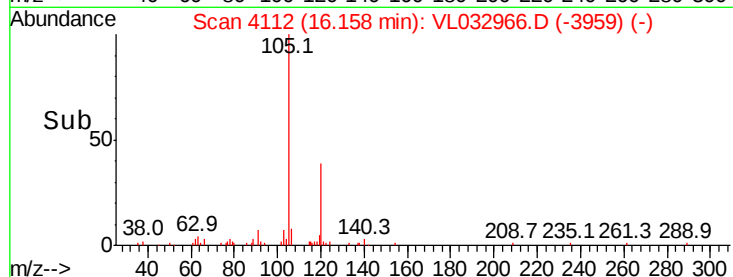
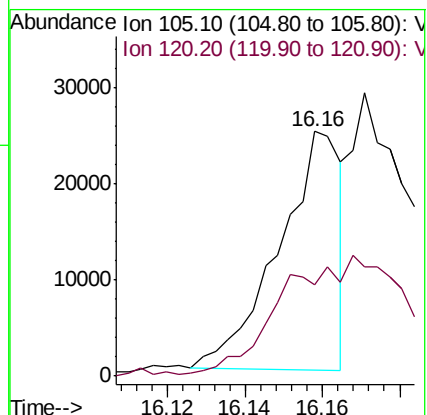
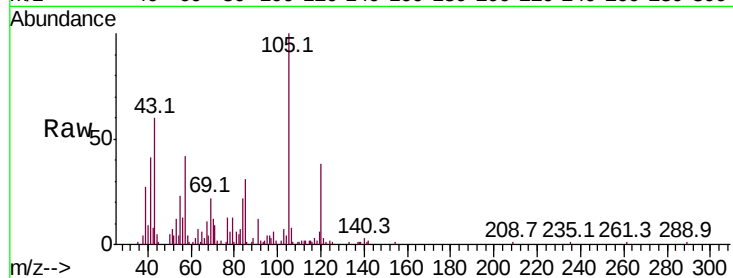
ClientSampleId :

Tot Ion:105 Resp: 27676

Ion Ratio Lower Upper

105 100

120 37.7 36.0 54.0



#74

1,2,4-Trimethylbenzene

Concen: 0.307 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.01 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Tgt Ion:105 Resp: 122511

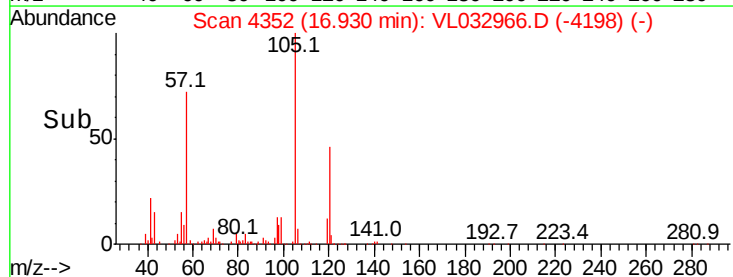
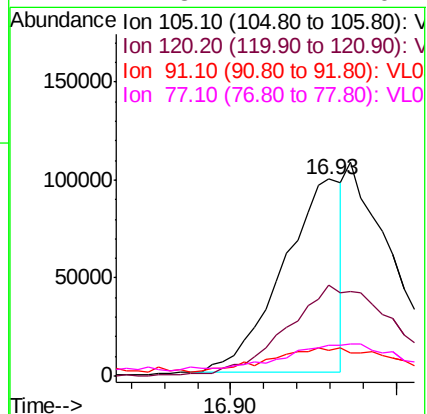
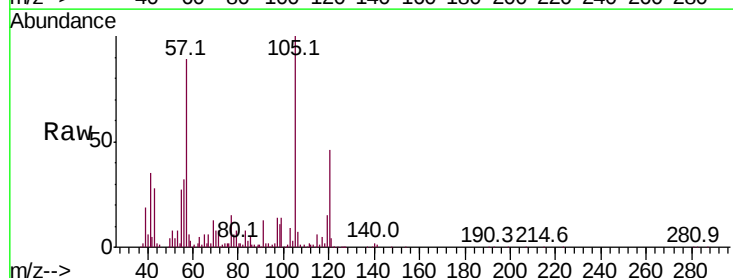
Ion Ratio Lower Upper

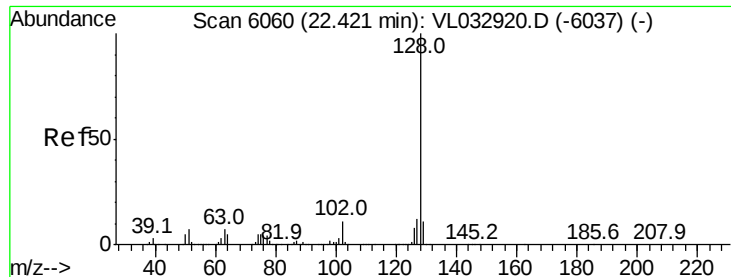
105 100

120 46.0 38.6 58.0

91 11.2 41.7 62.5#

77 11.3 17.4 26.2#





#79

Naphthalene

Concen: 0.035 ppbv

RT: 22.41 min Scan# 6057

Delta R.T. -0.01 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

Instrument :

MSVOA_L

ClientSampleId :

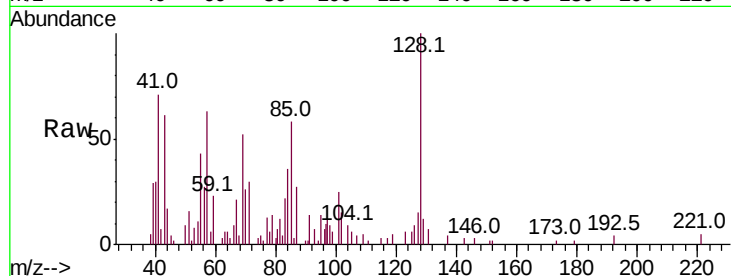
Tot Ion:128 Resp: 9015

Ion Ratio Lower Upper

128 100

127 4.9 9.9 14.9#

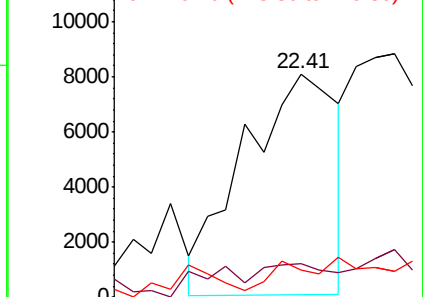
129 0.0 8.6 13.0#



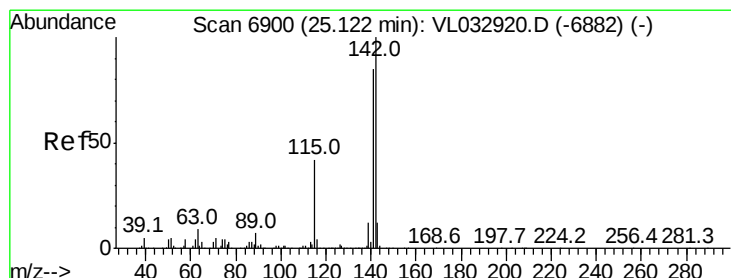
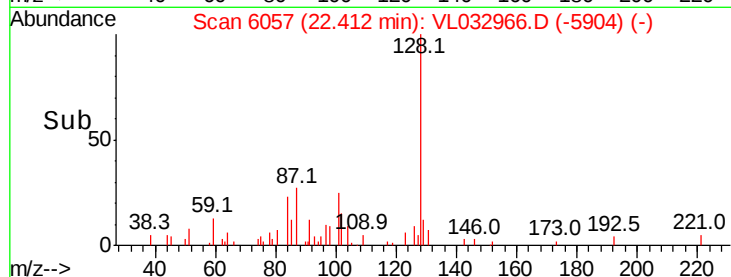
Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



Time--> 22.38 22.40 22.42



#80

Naphthalene, 2-methyl-

Concen: 0.043 ppbv

RT: 25.13 min Scan# 6901

Delta R.T. 0.00 min

Lab File: VL032966.D

Acq: 11 Dec 2018 22:39

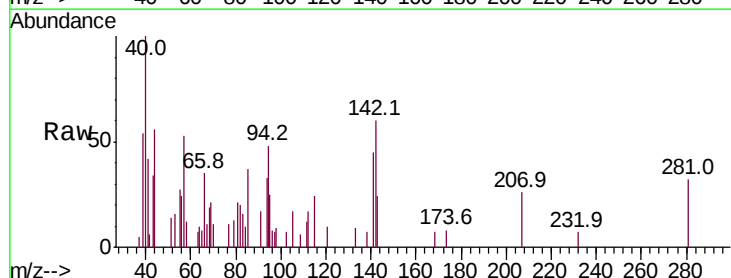
Tgt Ion:142 Resp: 2361

Ion Ratio Lower Upper

142 100

141 129.4 68.2 102.2#

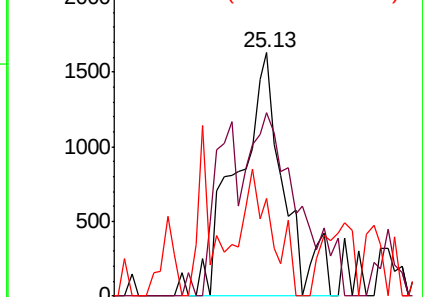
115 55.1 35.1 52.7#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V



Time--> 25.10 25.15

