

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082018\
 Data File : VL032413.D
 Acq On : 20 Aug 2018 20:44
 Operator : SY/AP
 Sample : J4472-02DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 21 01:43:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1817300	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3500941	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3440251	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	2659919	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.11	85	126131	0.535	ppbv	99
3) Chlorodifluoromethane	3.05	51	124484	0.739	ppbv #	89
4) Chloromethane	3.21	50	124417	1.242	ppbv	95
6) Bromomethane	3.56	94	2853	0.056	ppbv #	57
7) Chloroethane	3.64	64	4078	0.122	ppbv	96
9) Propene	3.07	41	681929	9.465	ppbv	98
10) Heptane	8.30	43	29823	0.137	ppbv	94
11) Trichlorofluoromethane	4.04	101	754336	3.711	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.60	101	11307	0.083	ppbv	99
13) Ethanol	3.69	45	479502	25.913	ppbv	96
15) Acetone	3.94	43	2917782	16.899	ppbv	99
16) 1,3-Butadiene	3.38	39	22865	0.321	ppbv #	26
17) tert-Butyl alcohol	4.41	59	39388	1.360	ppbv	96
19) Isopropyl Alcohol	4.06	45	1862121	16.016	ppbv	99
20) Methylene Chloride	4.45	84	164389	2.521	ppbv	95
23) Vinyl Acetate	5.20	43	348245	1.168	ppbv #	88
25) Ethyl Acetate	5.82	43	370597	1.002	ppbv #	97
26) Hexane	5.83	57	165581	1.004	ppbv	94
27) Carbon Disulfide	4.68	76	5413	0.035	ppbv #	1
29) Chloroform	5.90	83	61554	0.255	ppbv	99
30) Cyclohexane	7.30	84	10593	0.084	ppbv #	1
34) 2-Butanone	5.37	43	1163730	4.884	ppbv	98
35) Carbon Tetrachloride	7.19	117	14890	0.072	ppbv #	87
36) Benzene	7.06	78	248598	0.838	ppbv	98
38) Trichloroethene	8.02	130	26549	0.255	ppbv	97
39) 1,2-Dichloropropane	7.34	63	962054	7.760	ppbv #	24
44) 2,2,4-Trimethylpentane	8.05	57	34653	0.065	ppbv #	1
50) 4-Methyl-2-Pentanone	8.94	43	152679	0.444	ppbv	92
51) 2-Hexanone	10.34	43	161507	0.668	ppbv #	91
52) Tetrachloroethene	11.43	164	108539	1.240	ppbv	96
53) Toluene	10.00	91	1023422	3.145	ppbv	99
58) Ethyl Benzene	12.94	91	24677	0.060	ppbv	94
59) m/p-Xylene	13.18	91	257548	0.732	ppbv	99
60) o-Xylene	13.92	91	126120	0.365	ppbv	98
61) Styrene	13.74	104	26962	0.112	ppbv #	27
64) n-propylbenzene	15.99	120	4078	0.032	ppbv	94
69) p-Isopropyltoluene	17.87	119	27656	0.058	ppbv #	61
71) 2-Chlorotoluene	15.77	91	13392	0.035	ppbv #	48
72) 4-Ethyltoluene	16.06	105	12648	0.033	ppbv #	1
73) 1,3,5-Trimethylbenzene	16.22	105	15822	0.043	ppbv #	74
74) 1,2,4-Trimethylbenzene	16.99	105	86565	0.219	ppbv #	64

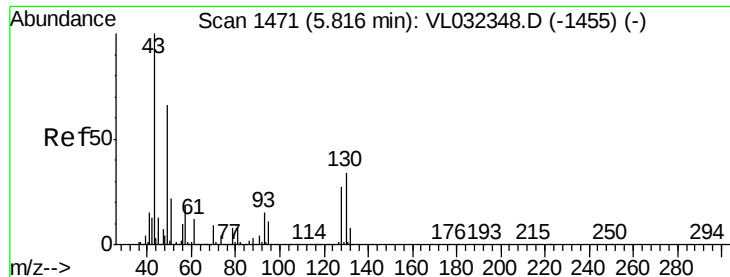
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082018\
Data File : VL032413.D
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QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 1,3-Dichlorobenzene	17.38	146	8514927	35.917	ppbv	99
76) 1,4-Dichlorobenzene	17.38	146	8514927	37.918	ppbv	99
79) Naphthalene	22.49	128	87242	0.556	ppbv #	90
80) Naphthalene,2-methyl-	25.15	142	5915	0.075	ppbv #	90

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.81 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

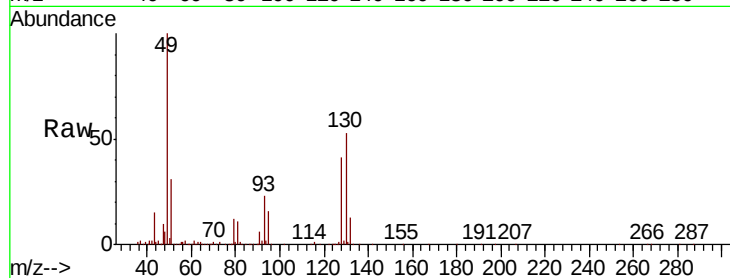
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 49 Resp: 1817300

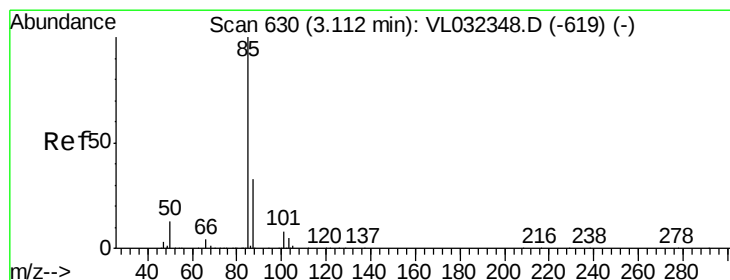
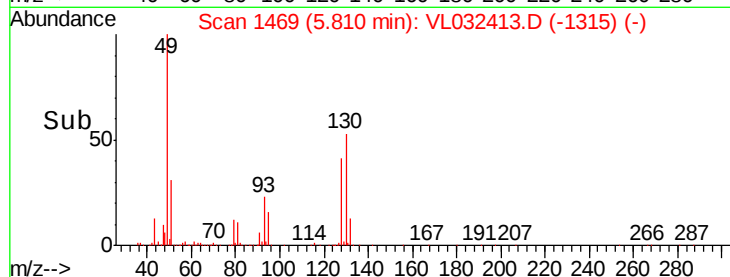
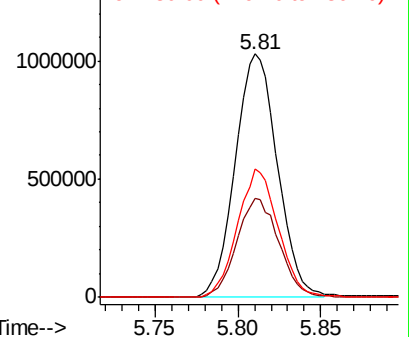
Ion	Ratio	Lower	Upper
49	100		
128	40.9	20.5	61.6
130	51.7	26.2	78.5



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: 0.535 ppbv

RT: 3.11 min Scan# 629

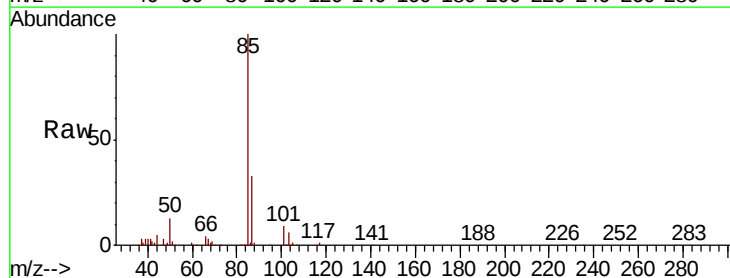
Delta R.T. -0.00 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

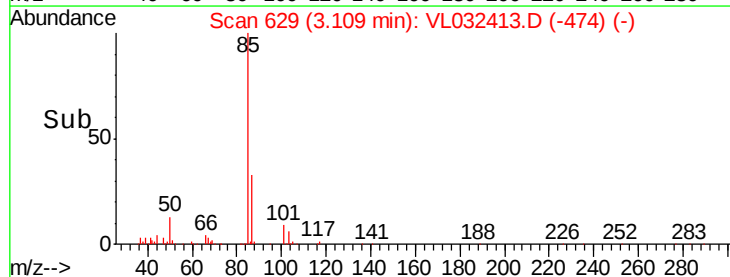
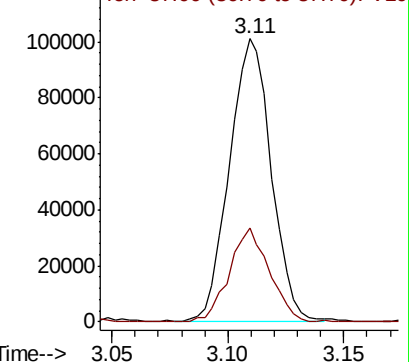
Tgt Ion: 85 Resp: 126131

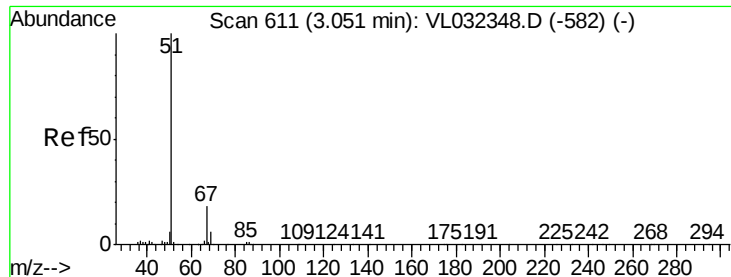
Ion	Ratio	Lower	Upper
85	100		
87	33.3	26.3	39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.739 ppbv

RT: 3.05 min Scan# 610

Delta R.T. -0.00 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

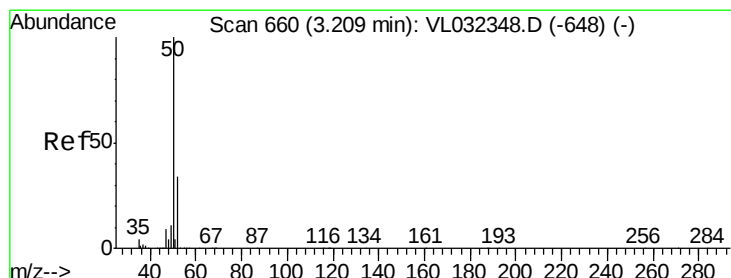
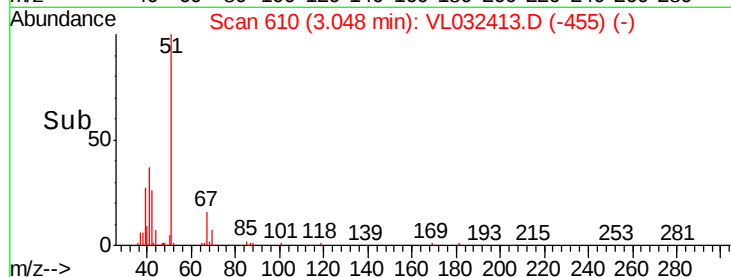
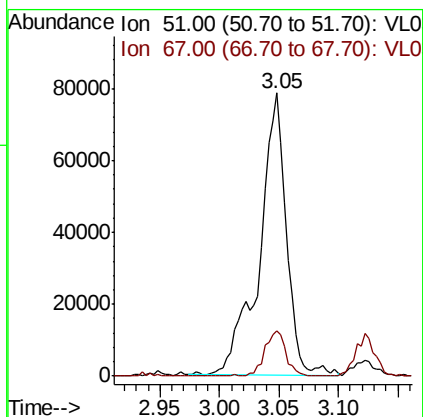
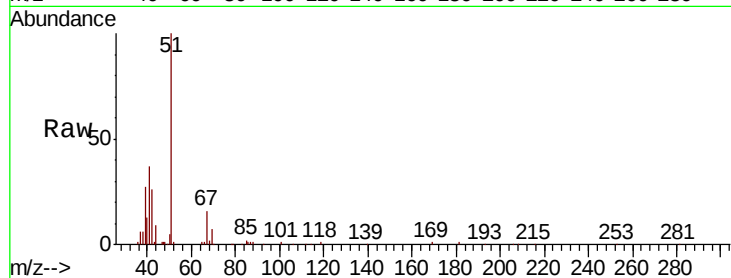
ClientSampleId :

Tot Ion: 51 Resp: 124484

Ion Ratio Lower Upper

51 100

67 12.5 13.7 20.5#



#4

Chloromethane

Concen: 1.242 ppbv

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VL032413.D

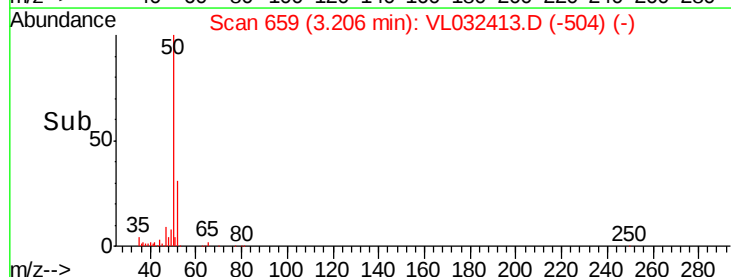
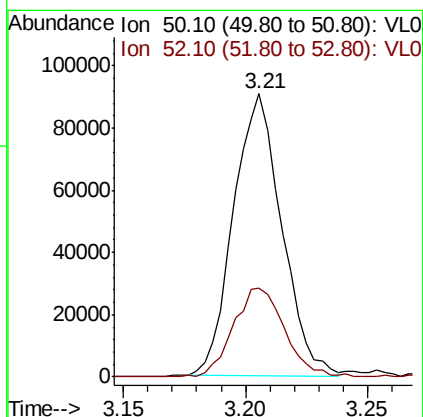
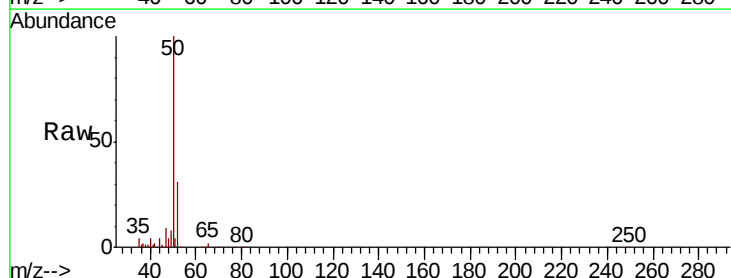
Acq: 20 Aug 2018 20:44

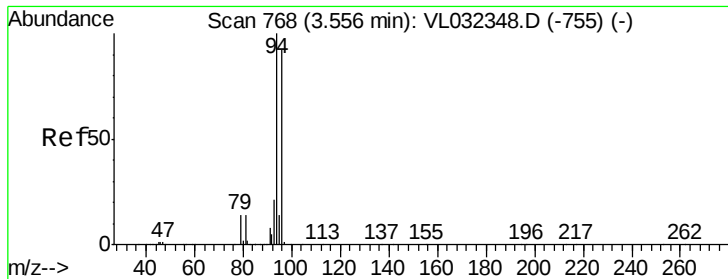
Tgt Ion: 50 Resp: 124417

Ion Ratio Lower Upper

50 100

52 30.9 26.8 40.2





#6

Bromomethane

Concen: 0.056 ppbv

RT: 3.56 min Scan# 768

Delta R.T. 0.00 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

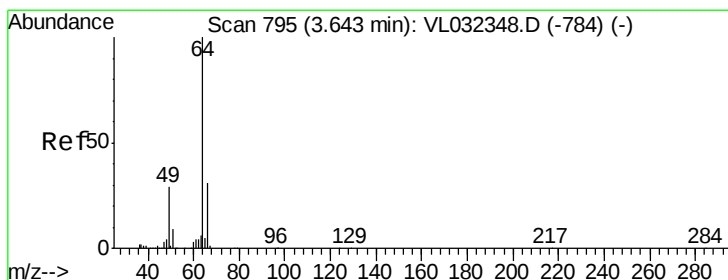
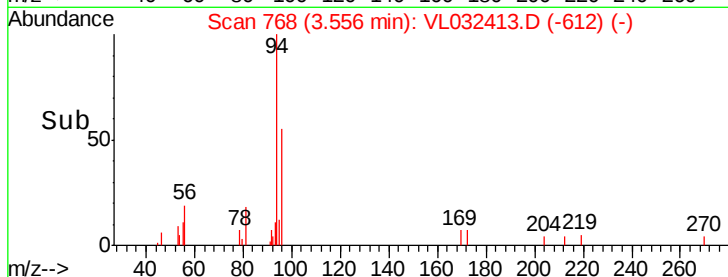
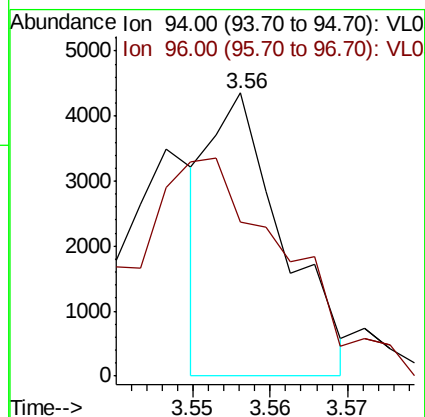
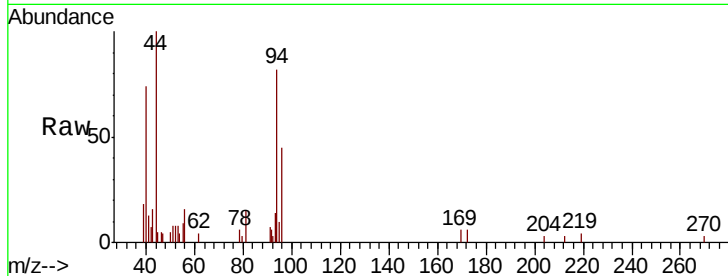
ClientSampleId :

Tot Ion: 94 Resp: 2853

Ion Ratio Lower Upper

94 100

96 50.8 73.7 110.5#



#7

Chloroethane

Concen: 0.122 ppbv

RT: 3.64 min Scan# 795

Delta R.T. 0.00 min

Lab File: VL032413.D

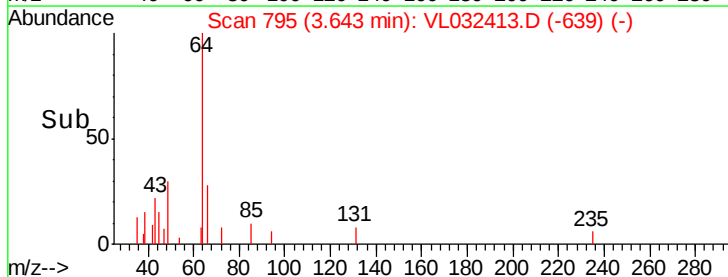
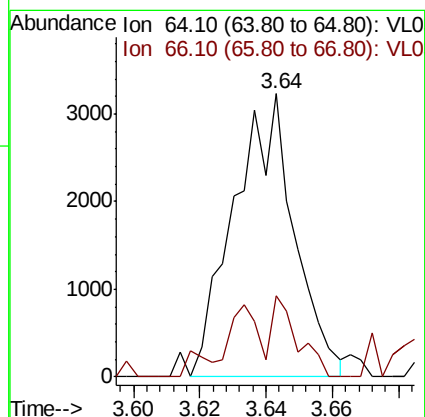
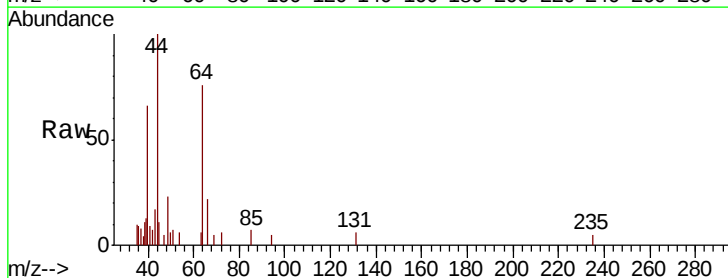
Acq: 20 Aug 2018 20:44

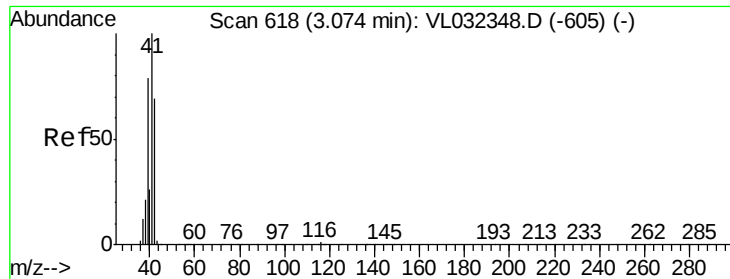
Tgt Ion: 64 Resp: 4078

Ion Ratio Lower Upper

64 100

66 28.5 24.6 36.8





#9

Propene

Concen: 9.465 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.00 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

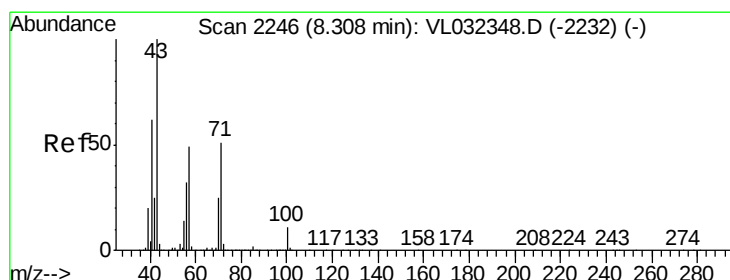
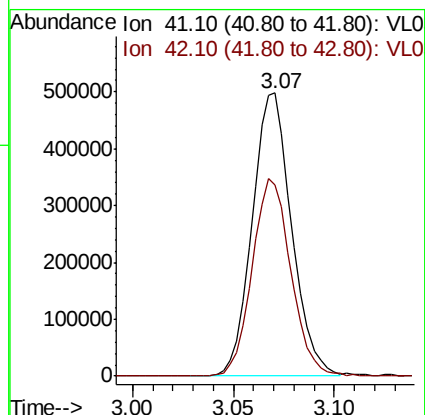
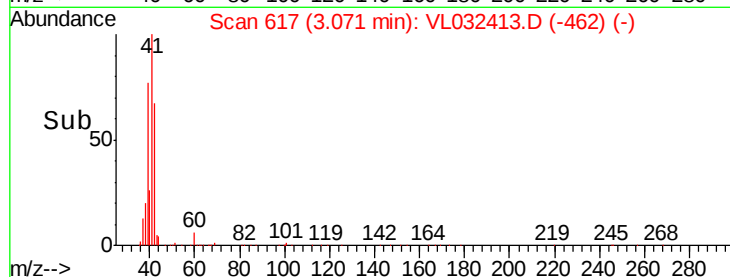
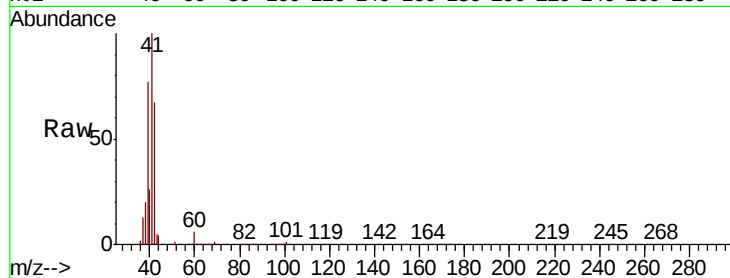
ClientSampleId :

Tot Ion: 41 Resp: 681929

Ion Ratio Lower Upper

41 100

42 68.6 55.9 83.9



#10

Heptane

Concen: 0.137 ppbv

RT: 8.30 min Scan# 2243

Delta R.T. -0.01 min

Lab File: VL032413.D

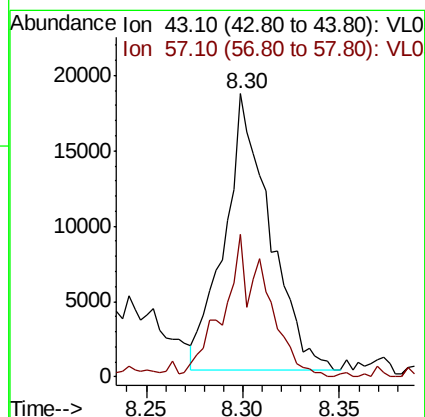
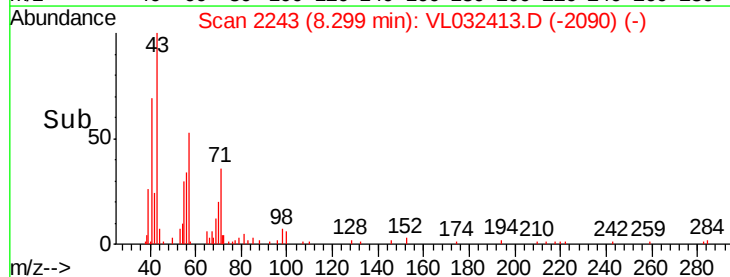
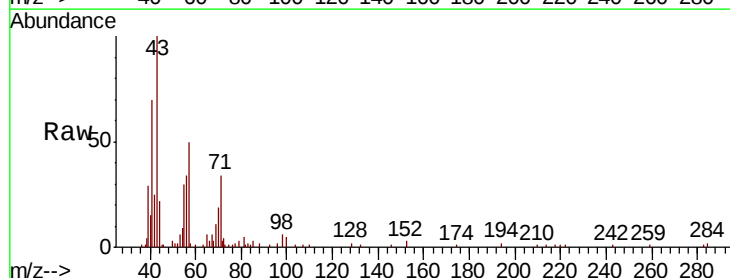
Acq: 20 Aug 2018 20:44

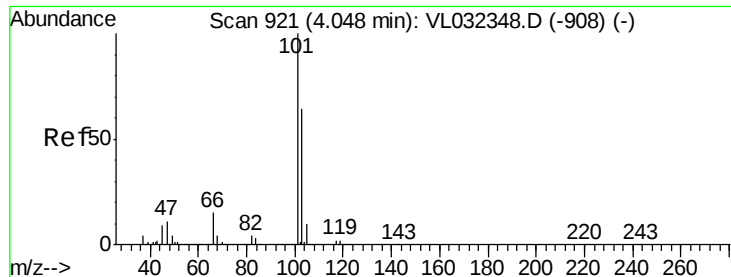
Tgt Ion: 43 Resp: 29823

Ion Ratio Lower Upper

43 100

57 53.5 39.5 59.3

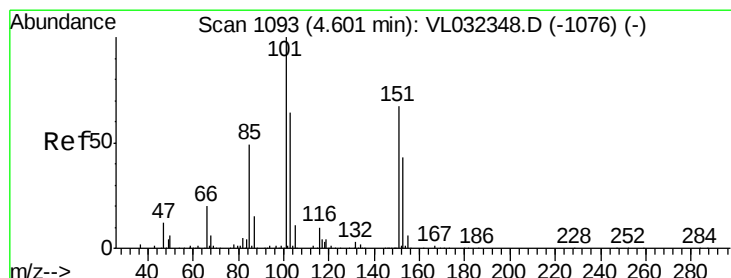
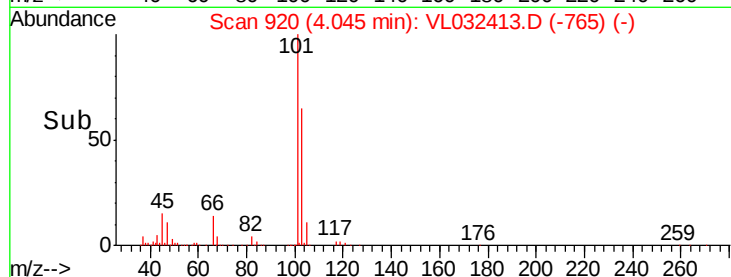
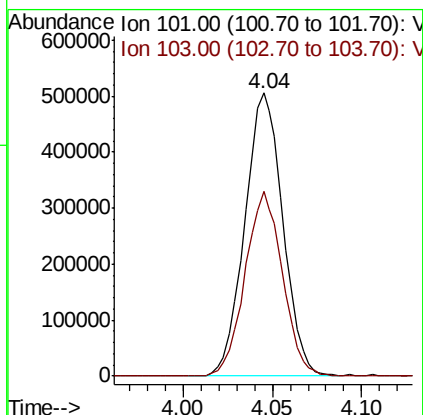
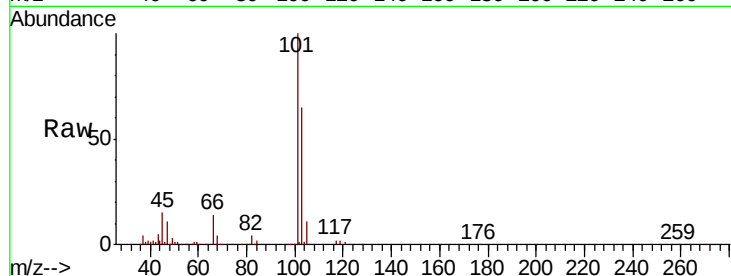




#11
 Trichlorofluoromethane
 Concen: 3.711 ppbv
 RT: 4.04 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

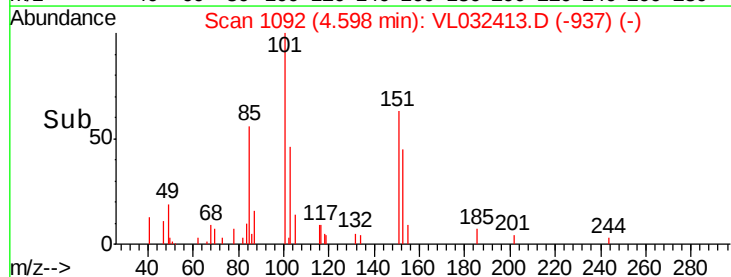
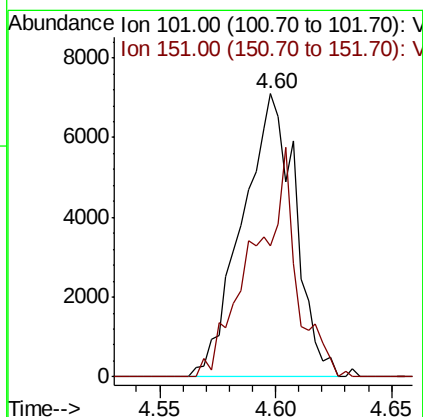
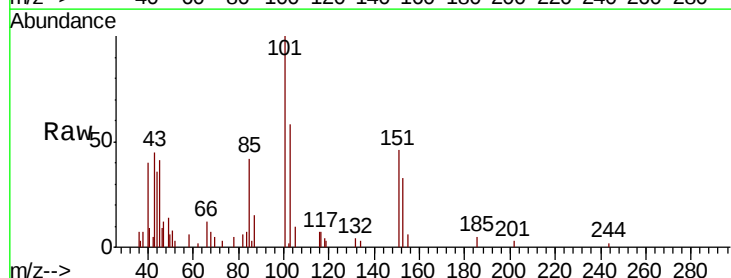
Instrument :
 MSVOA_L
 ClientSampleId :

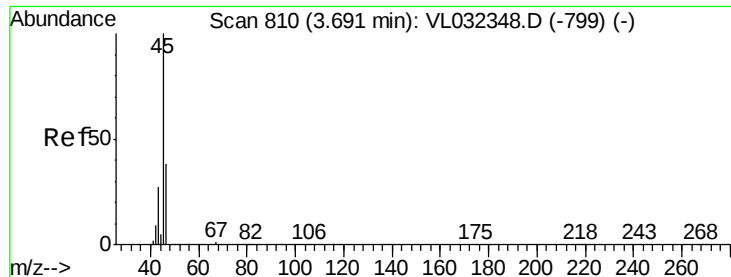
Tot Ion:101 Resp: 754336
 Ion Ratio Lower Upper
 101 100
 103 65.3 51.4 77.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.083 ppbv
 RT: 4.60 min Scan# 1092
 Delta R.T. -0.00 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Tgt Ion:101 Resp: 11307
 Ion Ratio Lower Upper
 101 100
 151 65.5 53.1 79.7





#13

Ethanol

Concen: 25.913 ppbv

RT: 3.69 min Scan# 810

Delta R.T. 0.00 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

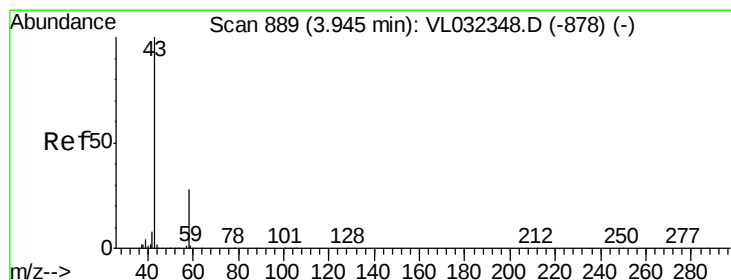
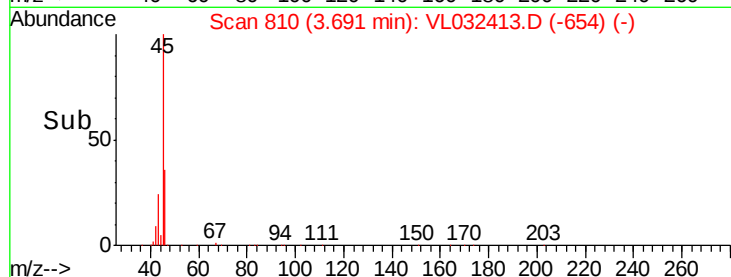
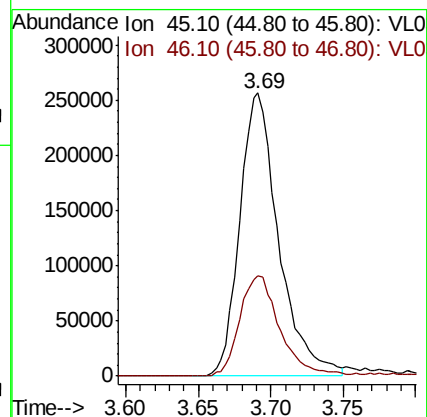
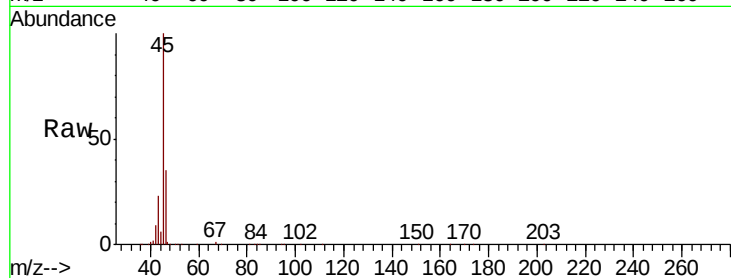
ClientSampleId :

Tot Ion: 45 Resp: 479502

Ion Ratio Lower Upper

45 100

46 36.7 15.6 62.4



#15

Acetone

Concen: 16.899 ppbv

RT: 3.94 min Scan# 886

Delta R.T. -0.01 min

Lab File: VL032413.D

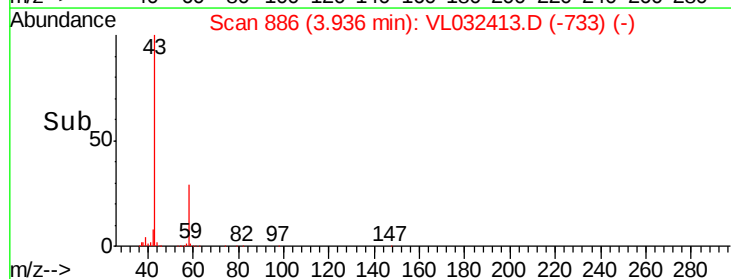
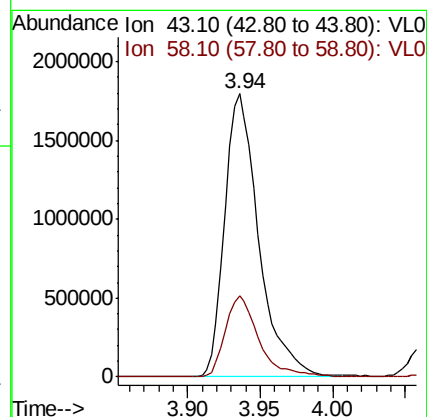
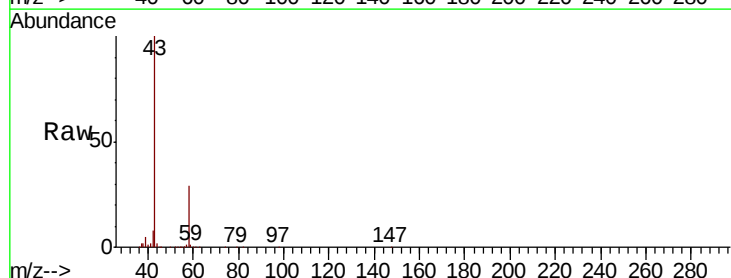
Acq: 20 Aug 2018 20:44

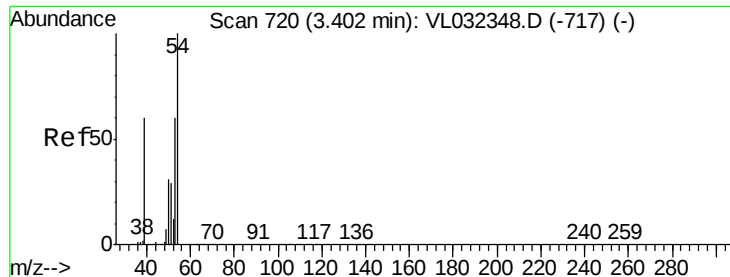
Tgt Ion: 43 Resp: 2917782

Ion Ratio Lower Upper

43 100

58 28.4 22.4 33.6

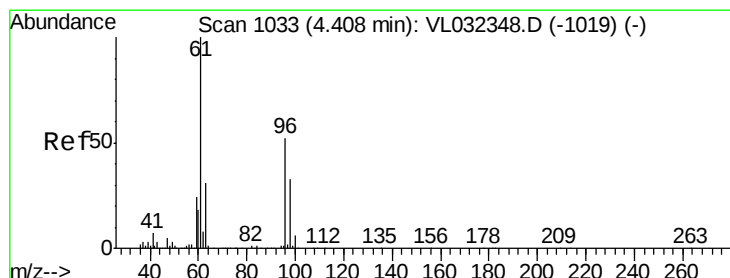
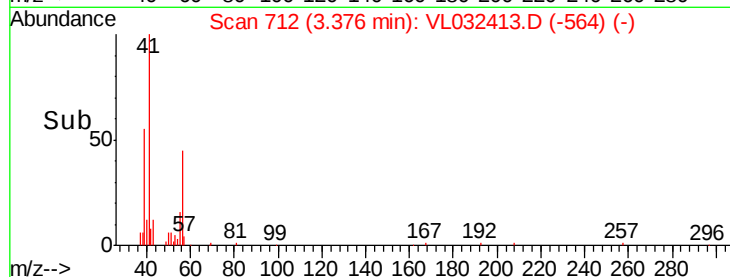
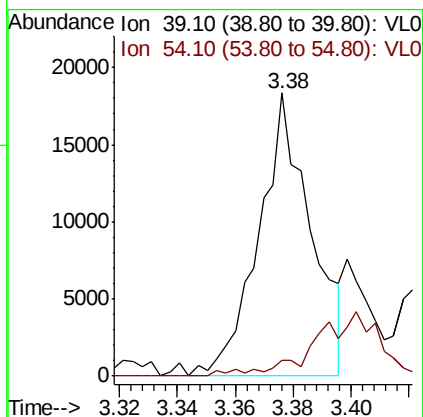
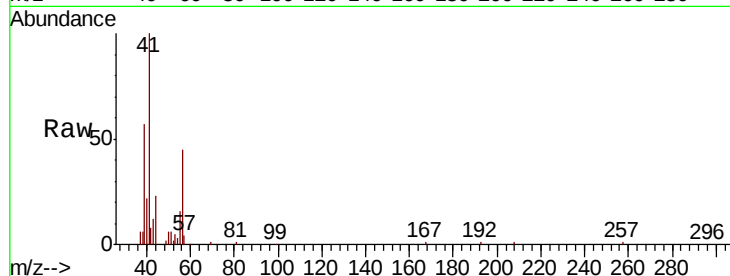




#16
 1,3-Butadiene
 Concen: 0.321 ppbv
 RT: 3.38 min Scan# 712
 Delta R.T. -0.03 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

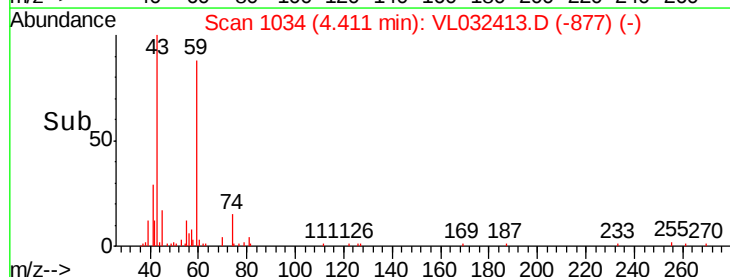
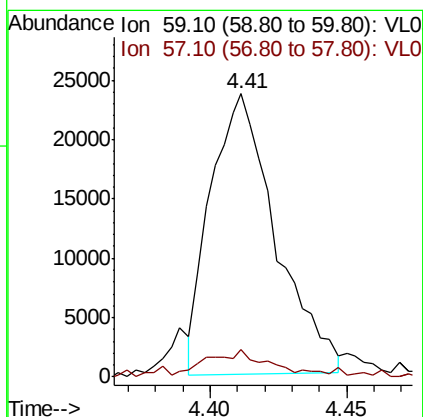
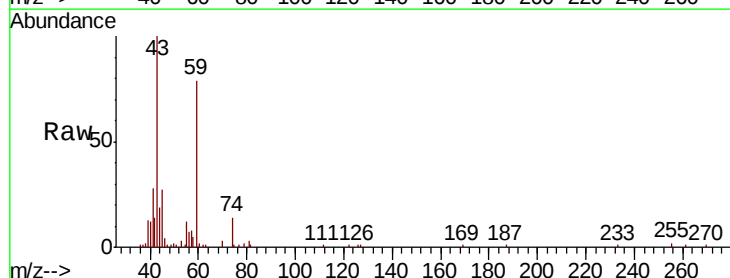
Instrument :
 MSVOA_L
 ClientSampleId :

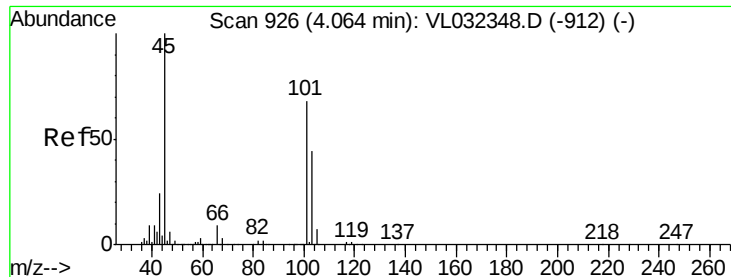
Tot Ion: 39 Resp: 22865
 Ion Ratio Lower Upper
 39 100
 54 29.6 85.5 128.3#



#17
 tert-Butyl alcohol
 Concen: 1.360 ppbv
 RT: 4.41 min Scan# 1034
 Delta R.T. 0.00 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Tgt Ion: 59 Resp: 39388
 Ion Ratio Lower Upper
 59 100
 57 10.8 7.6 11.4





#19

Isopropyl Alcohol

Concen: 16.016 ppbv

RT: 4.06 min Scan# 926

Delta R.T. 0.00 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

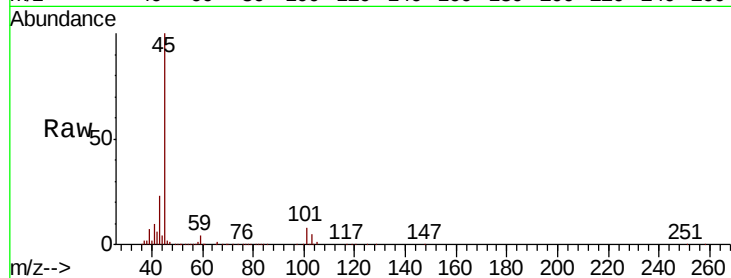
ClientSampled :

Tot Ion: 45 Resp: 1862121

Ion Ratio Lower Upper

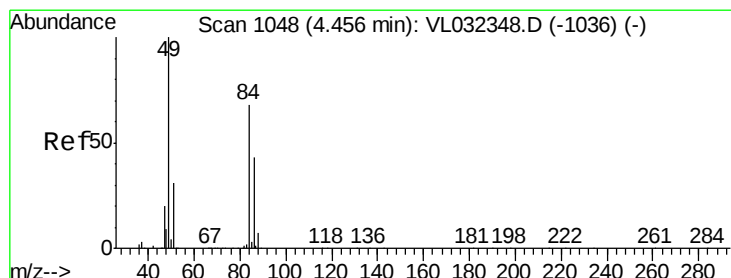
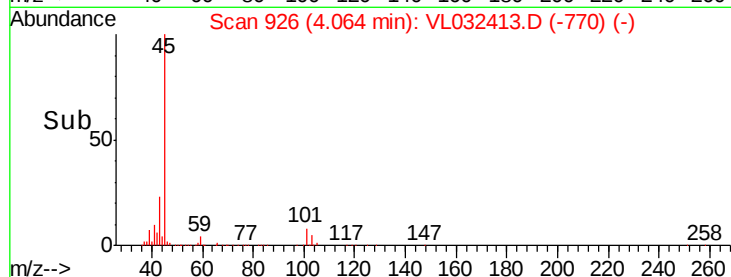
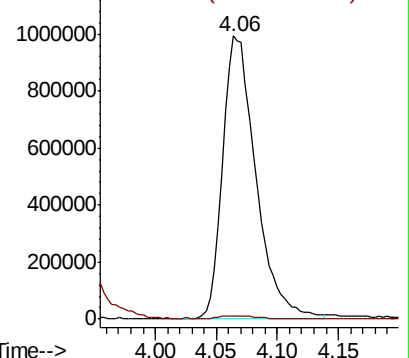
45 100

58 1.4 1.4 2.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 2.521 ppbv

RT: 4.45 min Scan# 1046

Delta R.T. -0.01 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Tgt Ion: 84 Resp: 164389

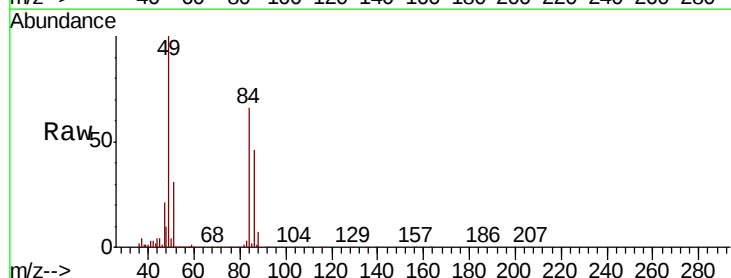
Ion Ratio Lower Upper

84 100

49 152.1 117.3 175.9

51 46.9 36.6 55.0

86 69.8 49.8 74.8

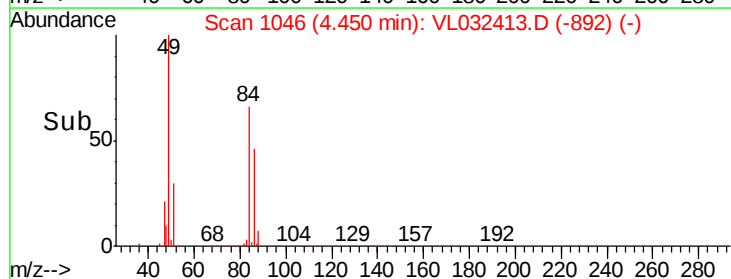
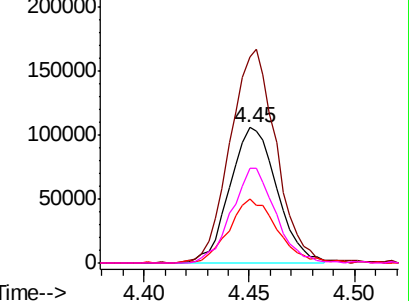


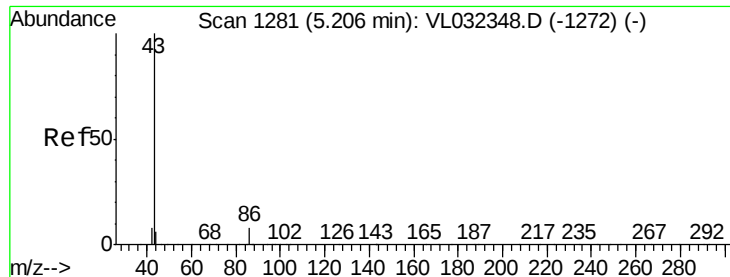
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

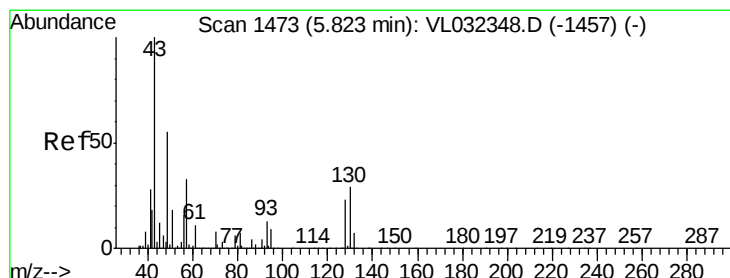
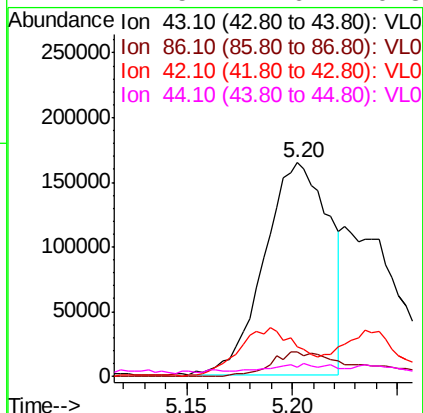
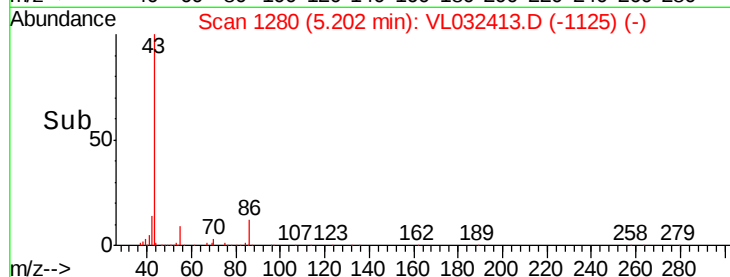
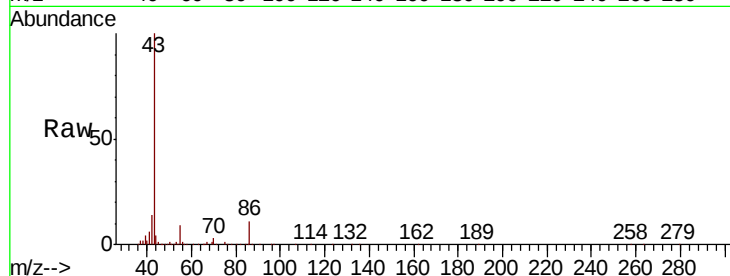




#23
 Vinyl Acetate
 Concen: 1.168 ppbv
 RT: 5.20 min Scan# 1280
 Delta R.T. -0.00 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

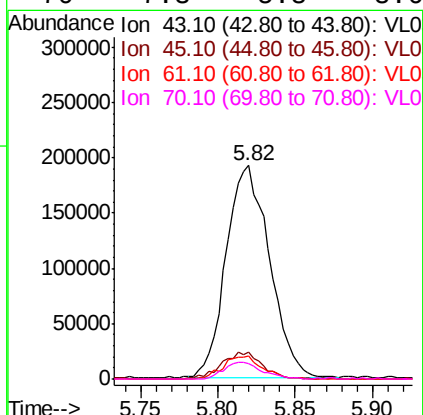
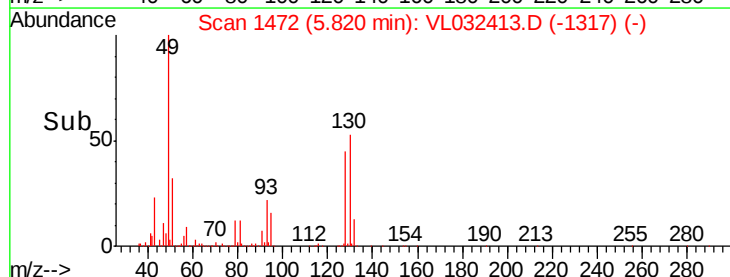
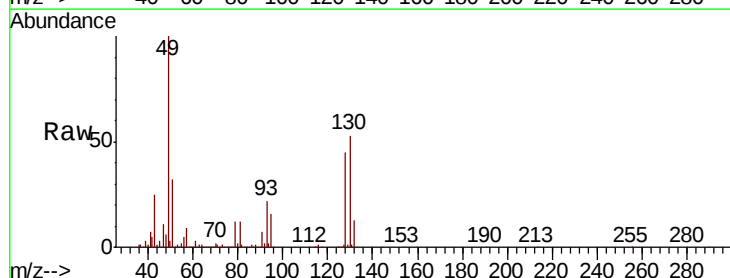
Instrument :
 MSVOA_L
 ClientSampleId :

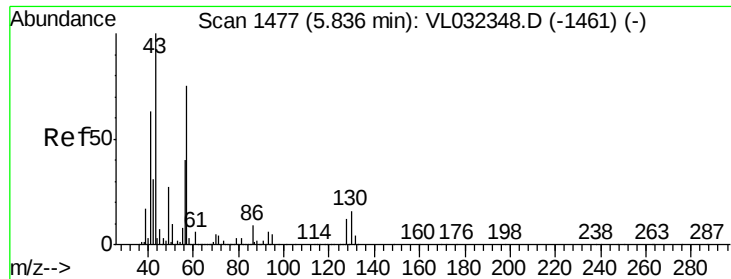
Tot Ion:	43	Resp:	348245
Ion	Ratio	Lower	Upper
43	100		
86	11.5	5.5	8.3#
42	13.0	7.0	10.6#
44	1.5	4.6	6.8#



#25
 Ethyl Acetate
 Concen: 1.002 ppbv
 RT: 5.82 min Scan# 1472
 Delta R.T. -0.00 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Tgt Ion:	43	Resp:	370597
Ion	Ratio	Lower	Upper
43	100		
45	12.1	7.9	11.9#
61	9.9	7.4	11.2
70	7.3	5.8	8.6

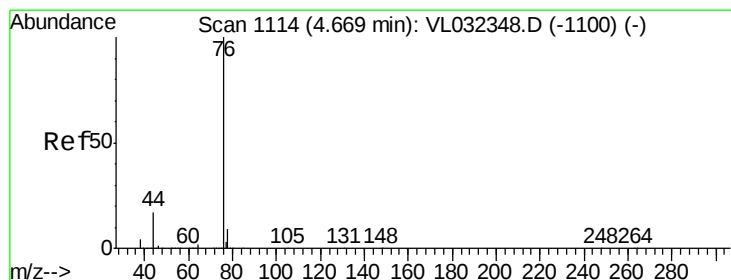
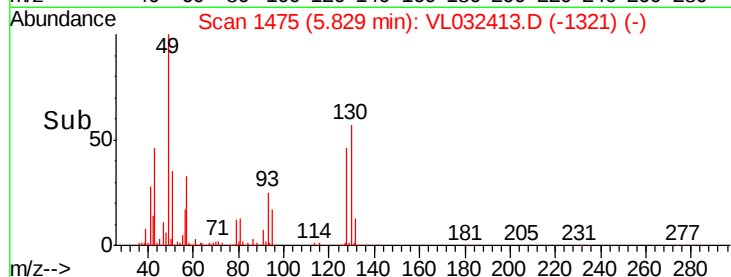
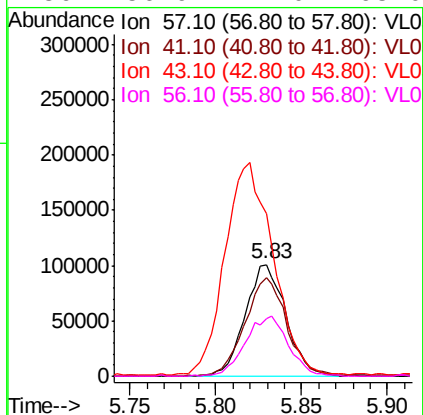
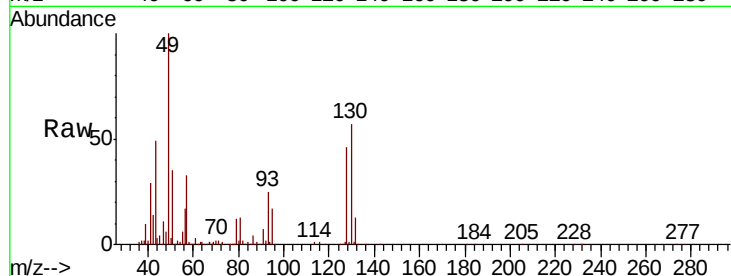




#26
Hexane
Concen: 1.004 ppbv
RT: 5.83 min Scan# 1475
Delta R.T. -0.01 min
Lab File: VL032413.D
Acq: 20 Aug 2018 20:44

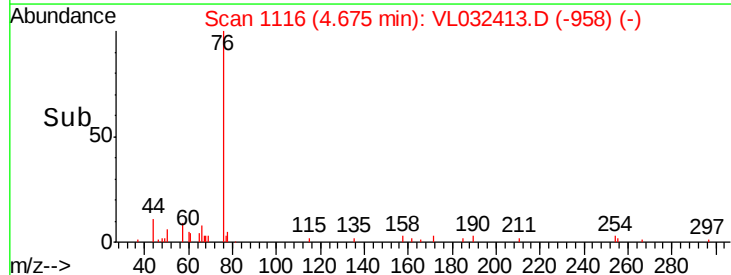
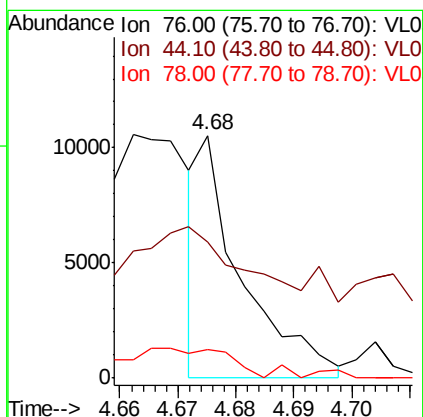
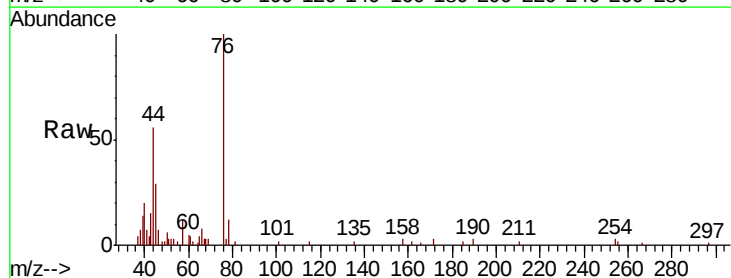
Instrument :
MSVOA_L
ClientSampleId :

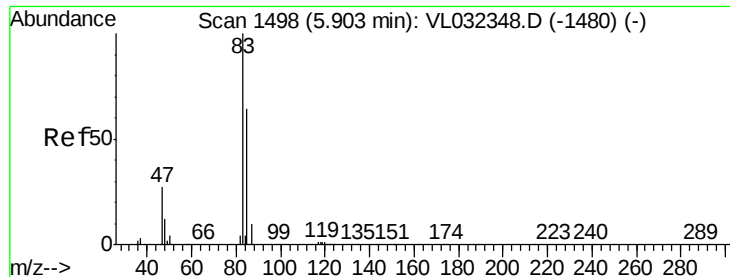
Tot Ion:	57	Resp:	165581
Ion	Ratio	Lower	Upper
57	100		
41	91.0	68.0	102.0
43	228.4	175.3	262.9
56	56.9	42.0	63.0



#27
Carbon Disulfide
Concen: 0.035 ppbv
RT: 4.68 min Scan# 1116
Delta R.T. 0.01 min
Lab File: VL032413.D
Acq: 20 Aug 2018 20:44

Tgt Ion:	76	Resp:	5413
Ion	Ratio	Lower	Upper
76	100		
44	281.5	14.4	21.6#
78	44.6	7.4	11.0#





#29

Chloroform

Concen: 0.255 ppbv

RT: 5.90 min Scan# 1496

Delta R.T. -0.01 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

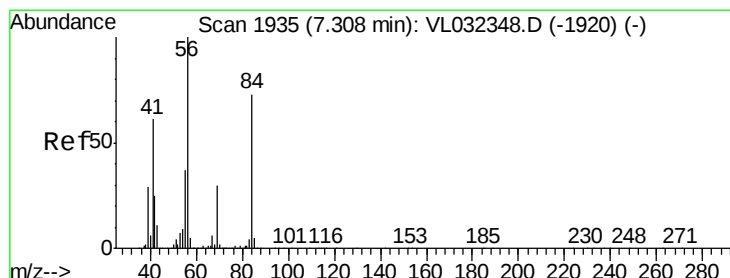
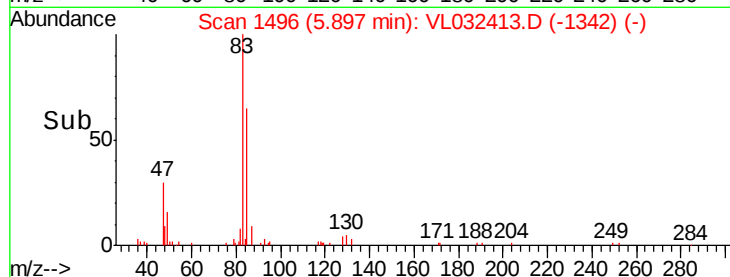
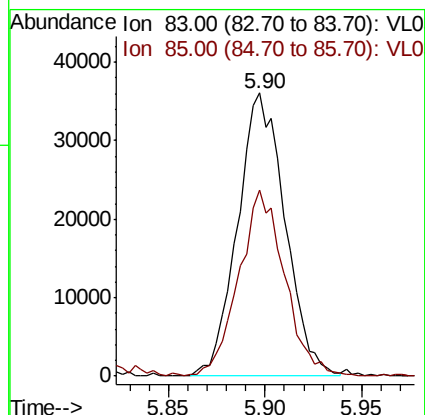
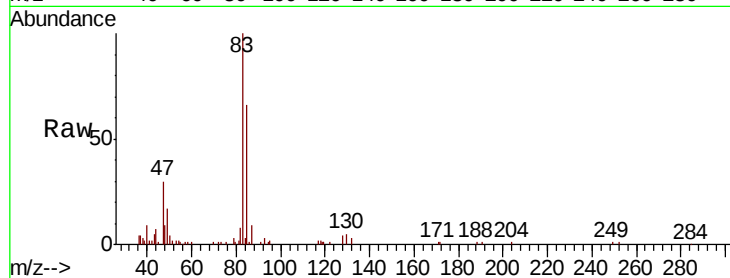
ClientSampleId :

Tot Ion: 83 Resp: 61554

Ion Ratio Lower Upper

83 100

85 65.0 51.6 77.4



#30

Cyclohexane

Concen: 0.084 ppbv

RT: 7.30 min Scan# 1933

Delta R.T. -0.01 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

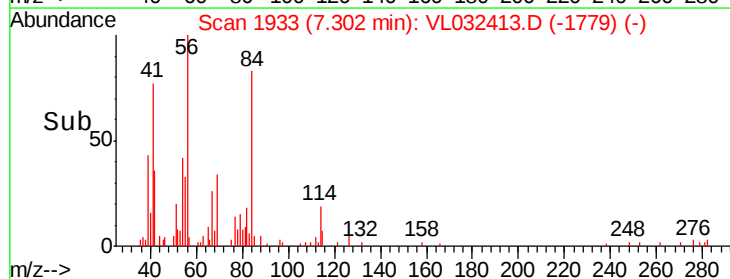
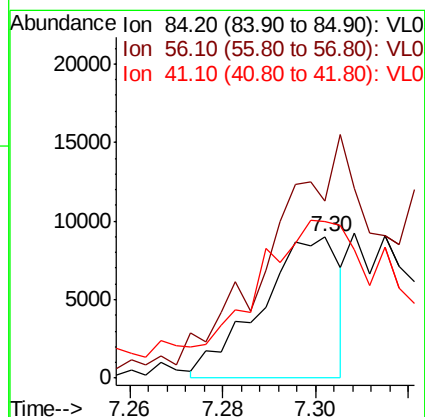
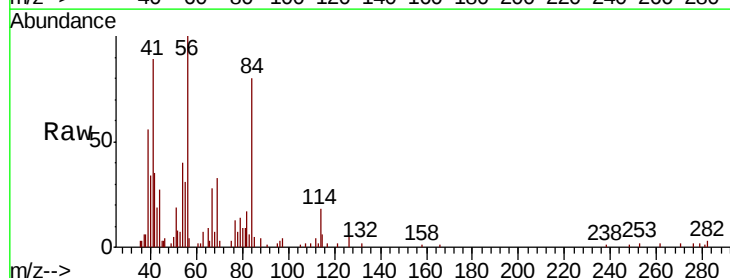
Tgt Ion: 84 Resp: 10593

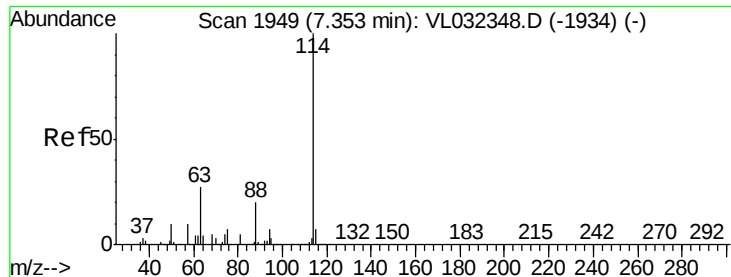
Ion Ratio Lower Upper

84 100

56 0.0 115.7 173.5#

41 197.2 67.9 101.9#

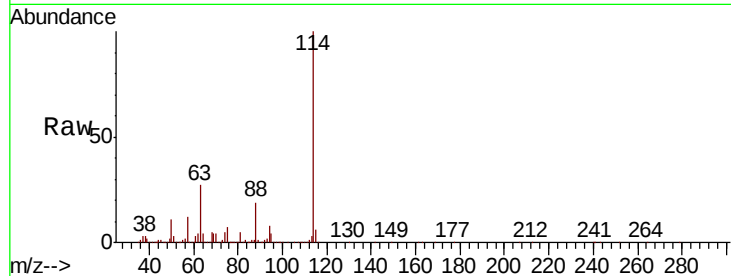




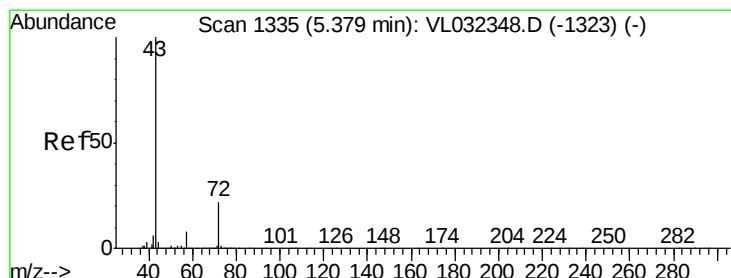
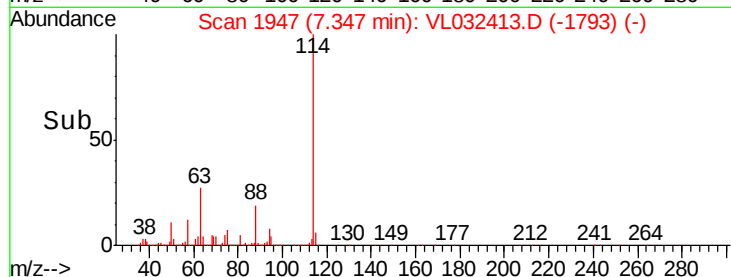
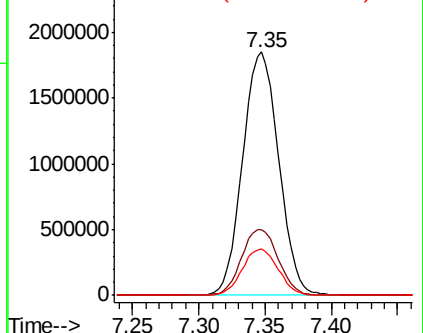
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.35 min Scan# 1947
 Delta R.T. -0.01 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3500941
 Ion Ratio Lower Upper
 114 100
 63 27.7 22.0 33.0
 88 18.9 15.3 22.9

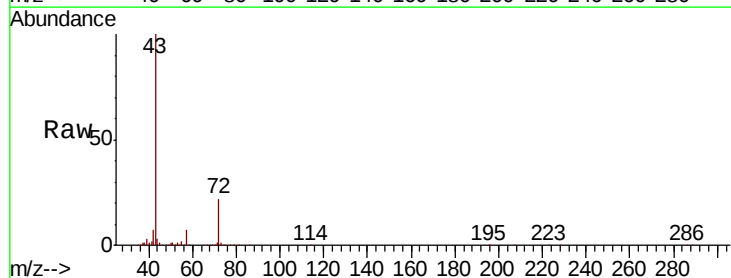


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

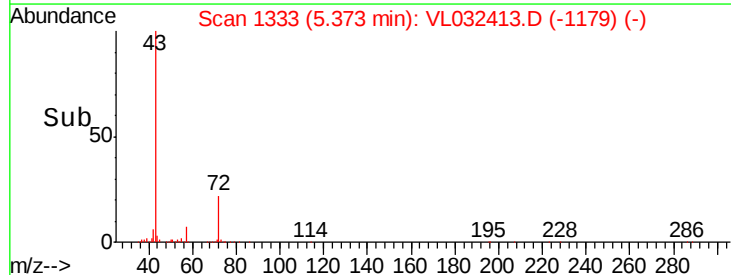
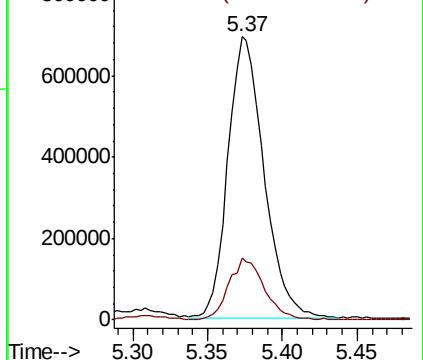


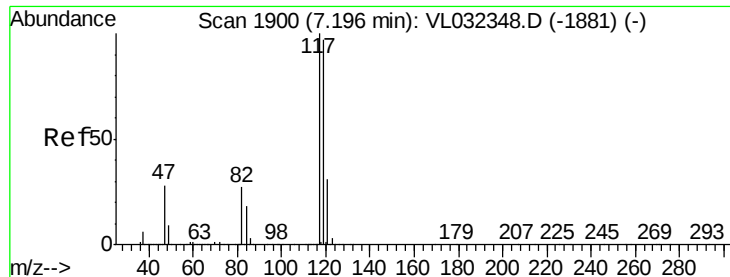
#34
 2-Butanone
 Concen: 4.884 ppbv
 RT: 5.37 min Scan# 1333
 Delta R.T. -0.01 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Tgt Ion: 43 Resp: 1163730
 Ion Ratio Lower Upper
 43 100
 72 21.7 17.9 26.9



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





#35

Carbon Tetrachloride

Concen: 0.072 ppbv

RT: 7.19 min Scan# 1897

Delta R.T. -0.01 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

ClientSampled :

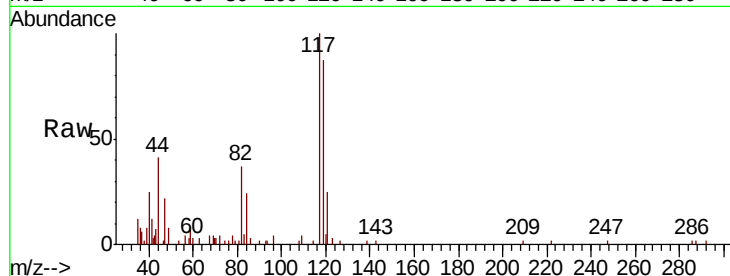
Tot Ion:117 Resp: 14890

Ion Ratio Lower Upper

117 100

119 85.8 77.2 115.8

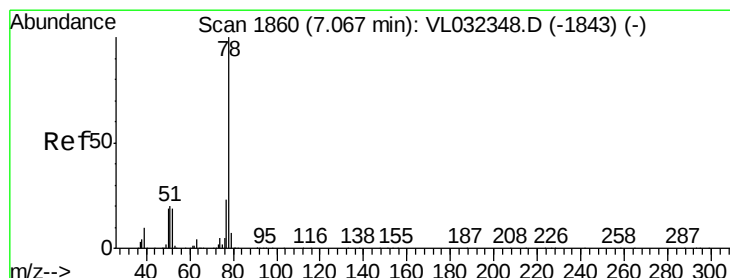
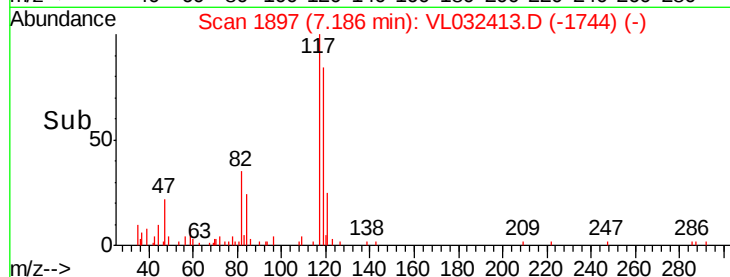
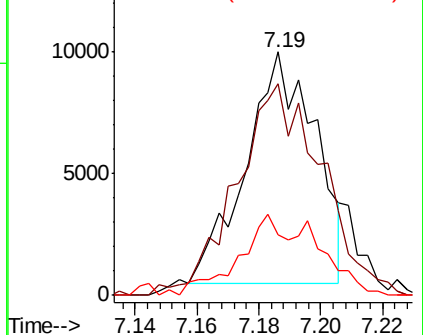
121 20.5 25.1 37.7#



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: 0.838 ppbv

RT: 7.06 min Scan# 1858

Delta R.T. -0.01 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

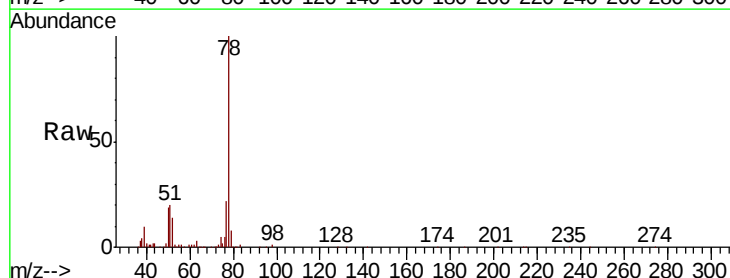
Tgt Ion: 78 Resp: 248598

Ion Ratio Lower Upper

78 100

77 21.6 18.0 27.0

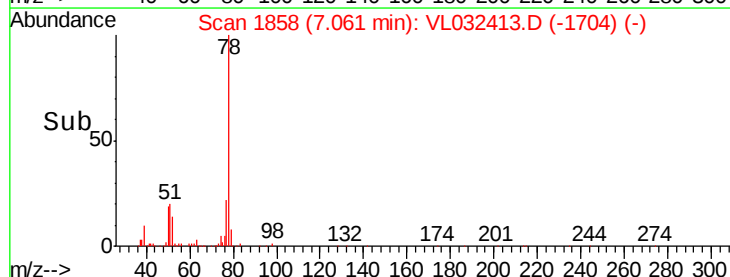
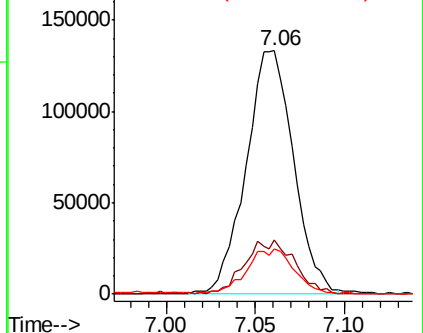
50 18.2 15.1 22.7

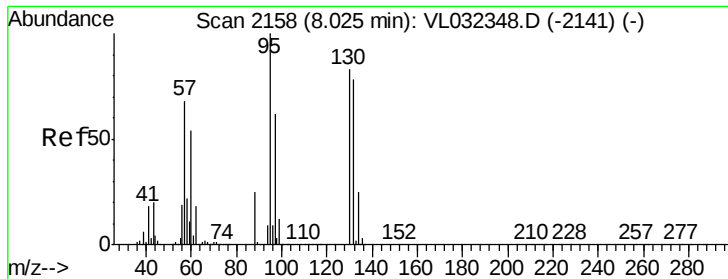


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

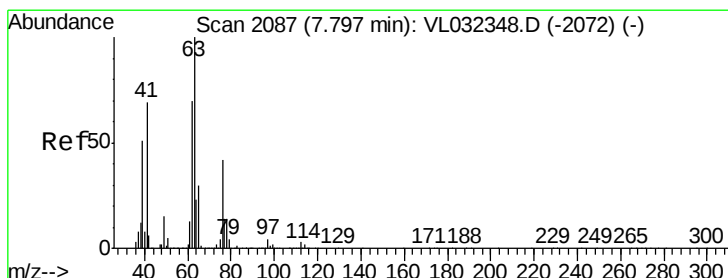
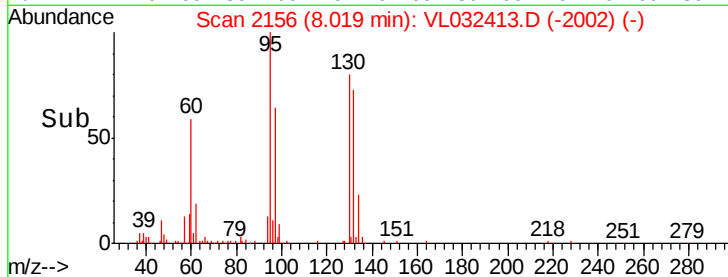
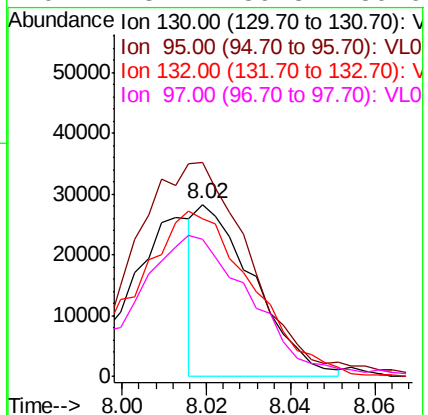
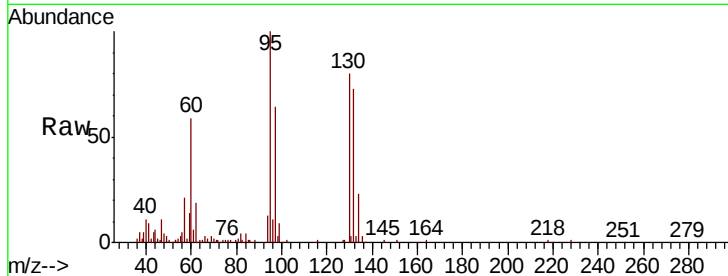




#38
 Trichloroethene
 Concen: 0.255 ppbv
 RT: 8.02 min Scan# 2156
 Delta R.T. -0.01 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

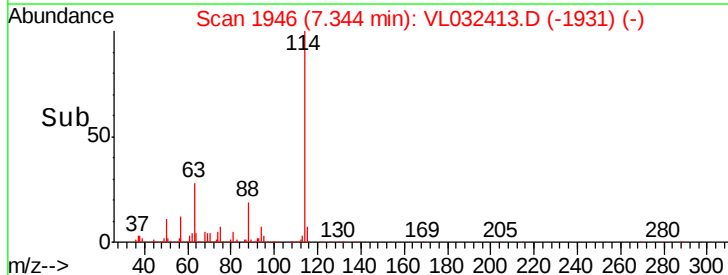
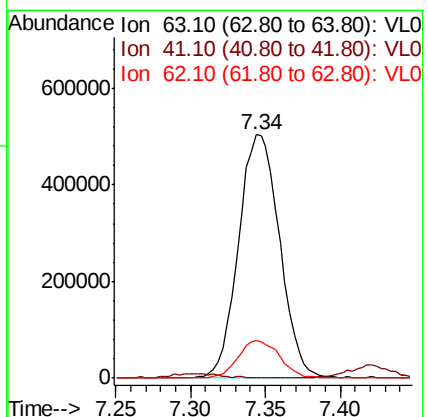
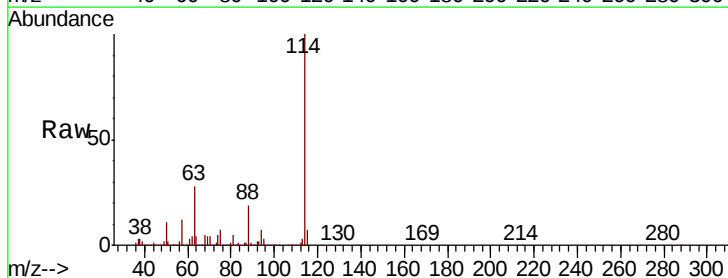
Instrument :
 MSVOA_L
 ClientSampleId :

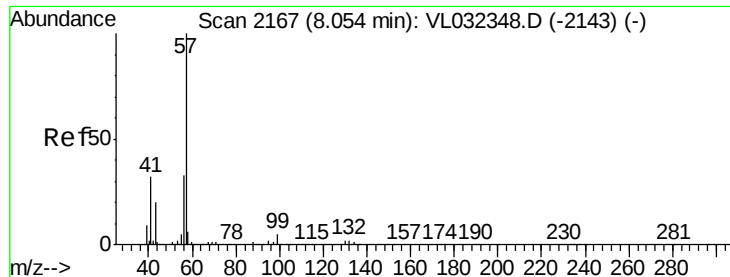
Tot Ion	Ratio	Lower	Upper
130	100		
95	121.3	96.6	144.8
132	89.9	75.5	113.3
97	78.1	59.8	89.6



#39
 1,2-Dichloropropane
 Concen: 7.760 ppbv
 RT: 7.34 min Scan# 1946
 Delta R.T. -0.45 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.5	83.3#
62	15.6	56.3	84.5#





#44

2,2,4-Trimethylpentane

Concen: 0.065 ppbv

RT: 8.05 min Scan# 2166

Delta R.T. -0.00 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

ClientSampleId :

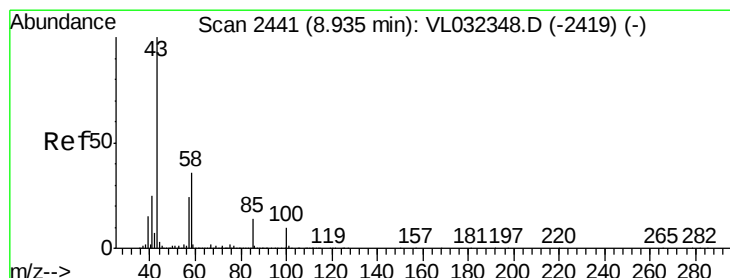
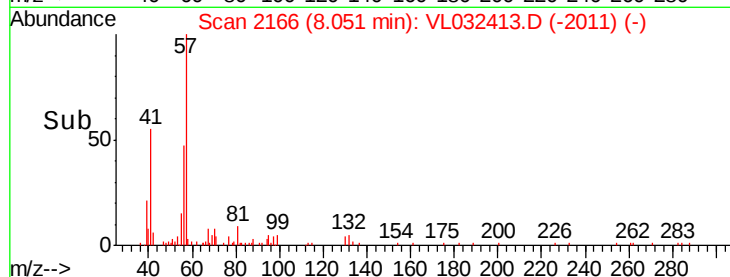
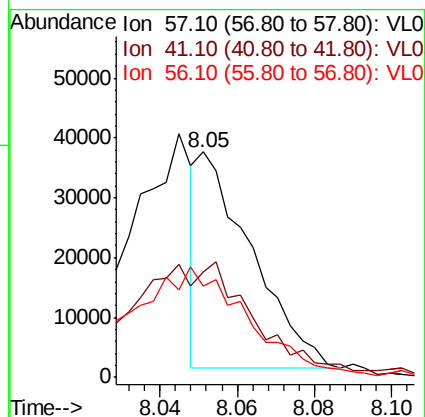
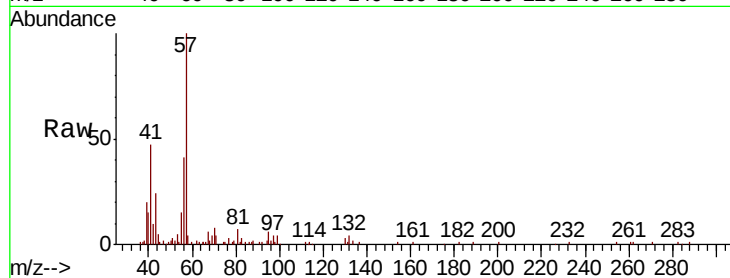
Tot Ion: 57 Resp: 34653

Ion Ratio Lower Upper

57 100

41 116.4 24.3 36.5#

56 121.6 25.7 38.5#



#50

4-Methyl-2-Pentanone

Concen: 0.444 ppbv

RT: 8.94 min Scan# 2441

Delta R.T. 0.00 min

Lab File: VL032413.D

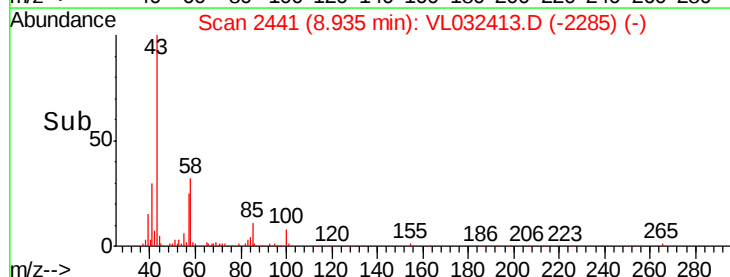
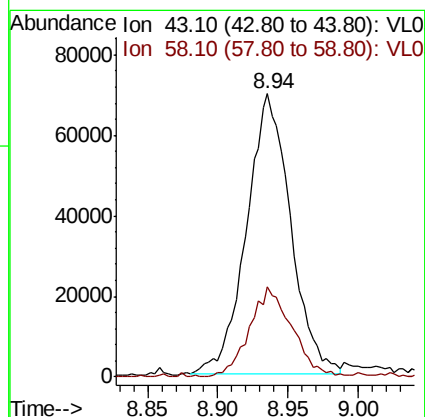
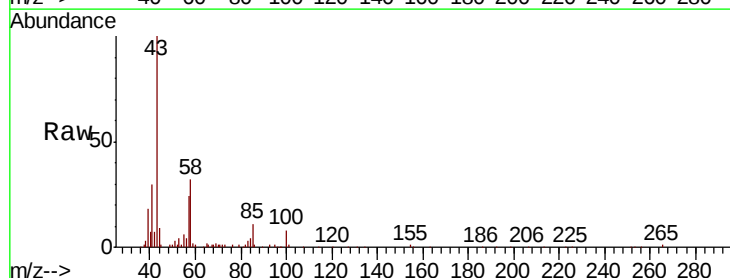
Acq: 20 Aug 2018 20:44

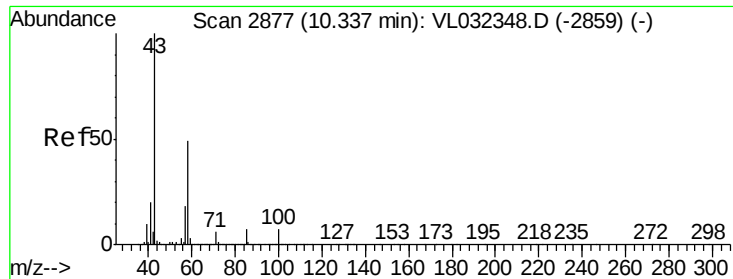
Tgt Ion: 43 Resp: 152679

Ion Ratio Lower Upper

43 100

58 31.2 28.9 43.3

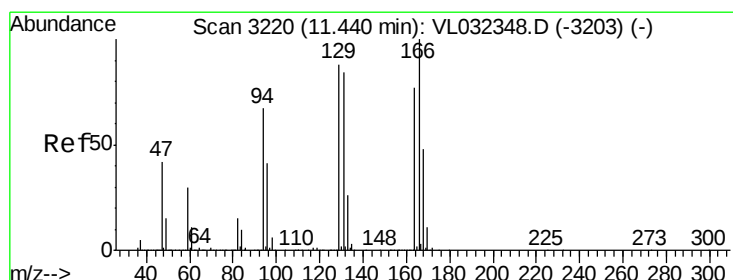
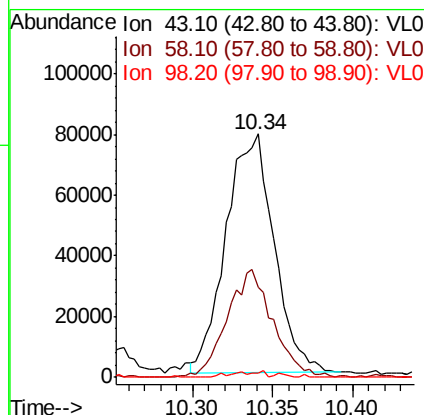
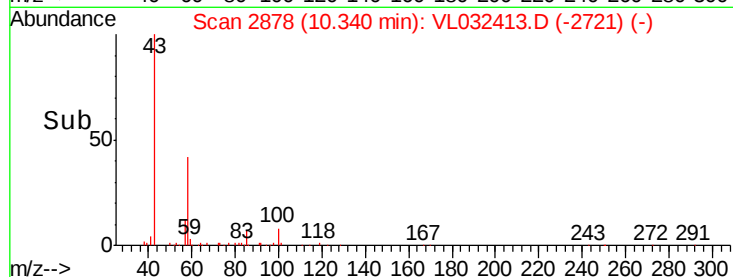
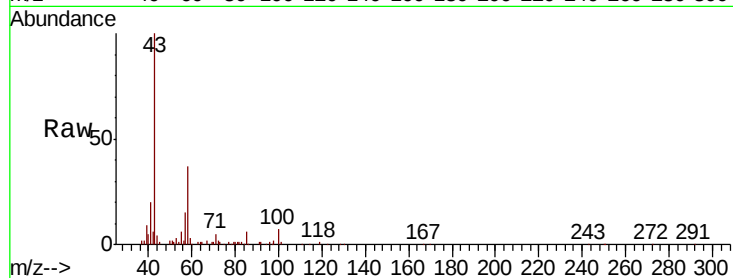




#51
2-Hexanone
Concen: 0.668 ppbv
RT: 10.34 min Scan# 2878
Delta R.T. 0.00 min
Lab File: VL032413.D
Acq: 20 Aug 2018 20:44

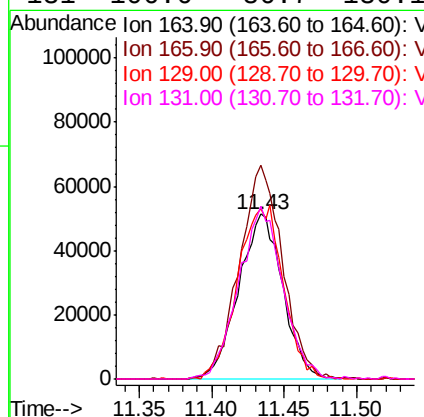
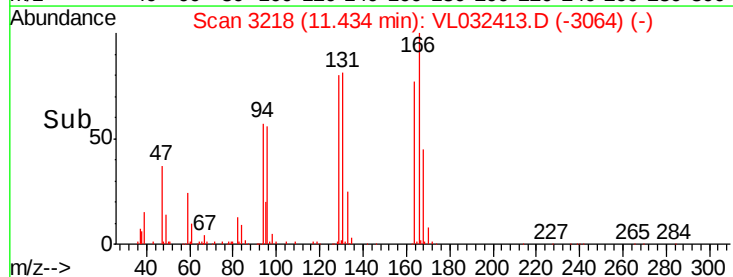
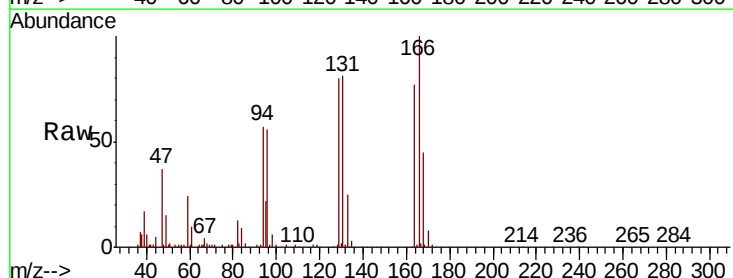
Instrument :
MSVOA_L
ClientSampleId :

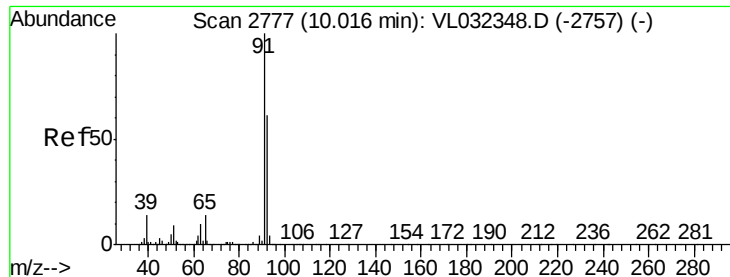
Tot Ion: 43 Resp: 161507
Ion Ratio Lower Upper
43 100
58 43.5 39.5 59.3
98 2.3 0.3 0.5#



#52
Tetrachloroethene
Concen: 1.240 ppbv
RT: 11.43 min Scan# 3218
Delta R.T. -0.01 min
Lab File: VL032413.D
Acq: 20 Aug 2018 20:44

Tgt Ion:164 Resp: 108539
Ion Ratio Lower Upper
164 100
166 128.9 103.5 155.3
129 102.4 90.9 136.3
131 106.6 86.7 130.1





#53

Toluene

Concen: 3.145 ppbv

RT: 10.00 min Scan# 2773

Delta R.T. -0.01 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

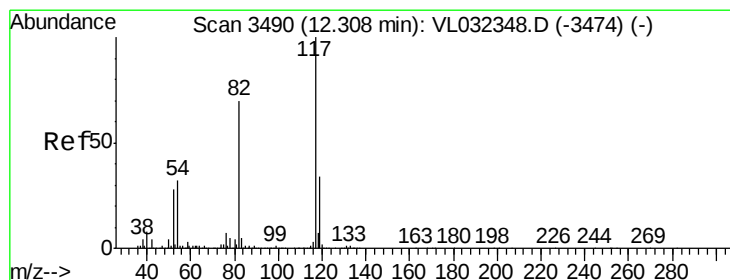
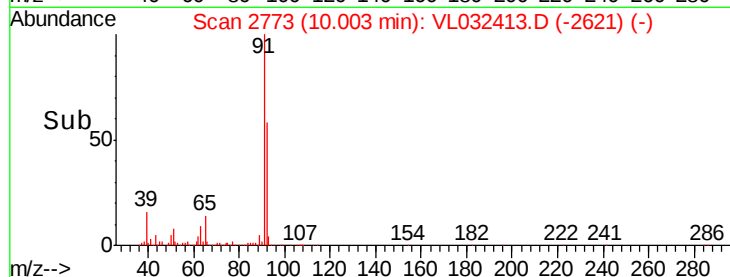
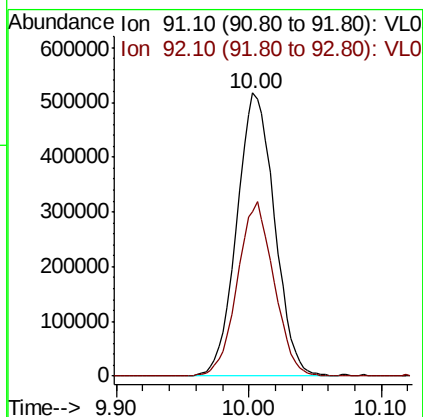
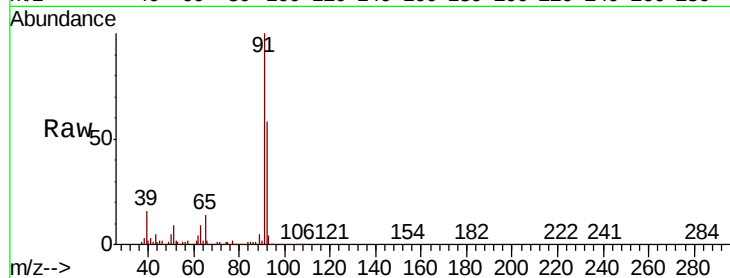
ClientSampleId :

Tot Ion: 91 Resp: 1023422

Ion Ratio Lower Upper

91 100

92 59.9 48.7 73.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.30 min Scan# 3487

Delta R.T. -0.01 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

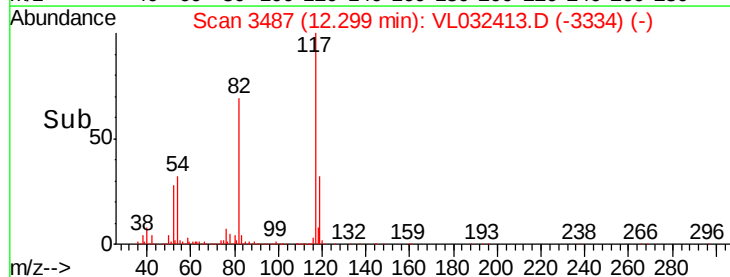
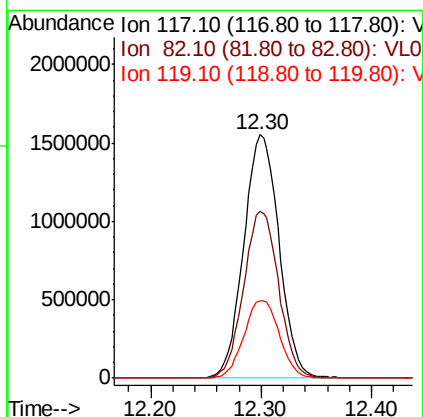
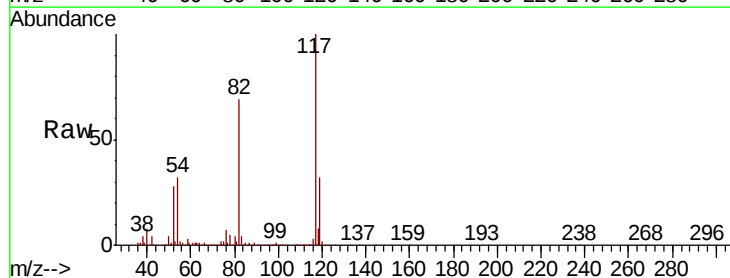
Tgt Ion: 117 Resp: 3440251

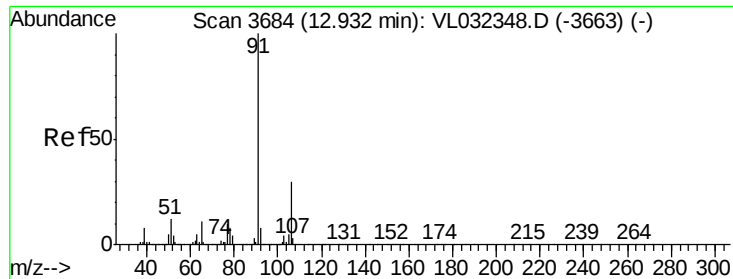
Ion Ratio Lower Upper

117 100

82 68.1 55.1 82.7

119 32.3 46.0 69.0#





#58

Ethyl Benzene

Concen: 0.060 ppbv

RT: 12.94 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

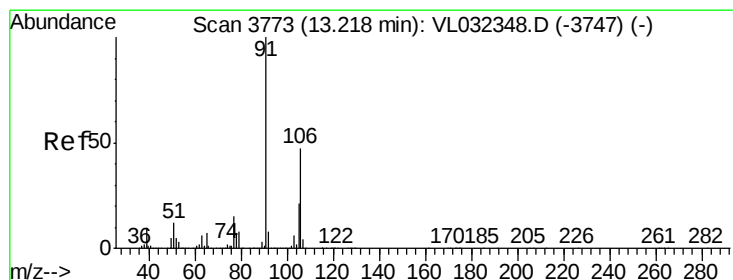
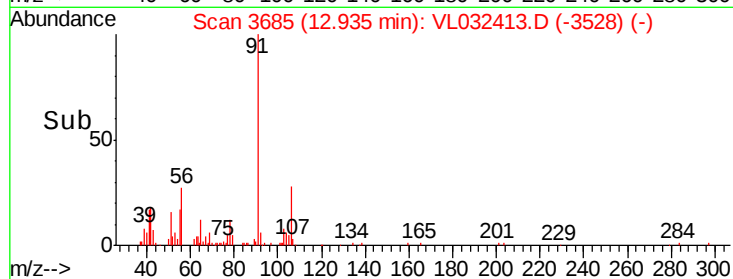
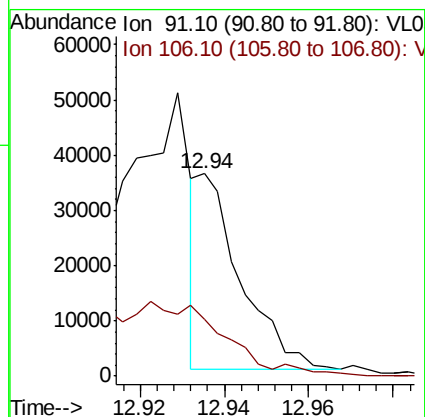
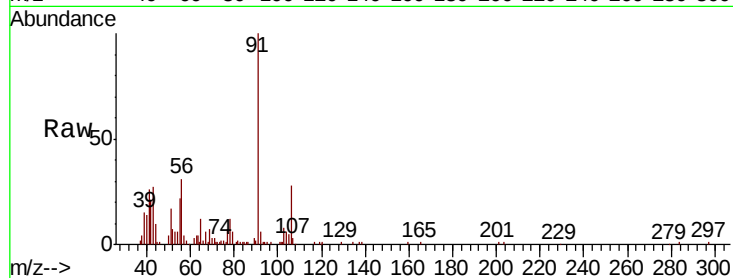
ClientSampleId :

Tot Ion: 91 Resp: 24677

Ion Ratio Lower Upper

91 100

106 27.2 24.3 36.5



#59

m/p-Xylene

Concen: 0.732 ppbv

RT: 13.18 min Scan# 3761

Delta R.T. -0.04 min

Lab File: VL032413.D

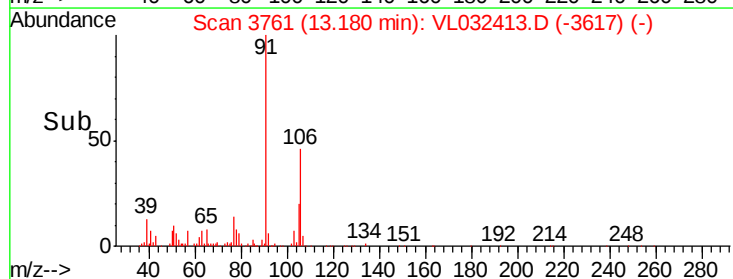
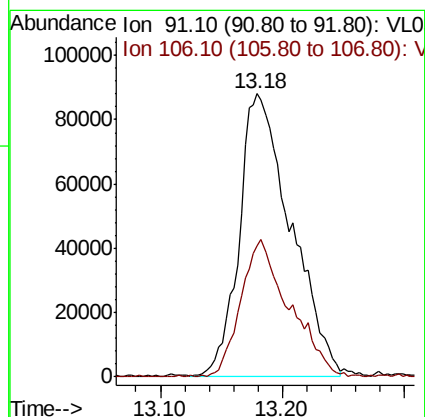
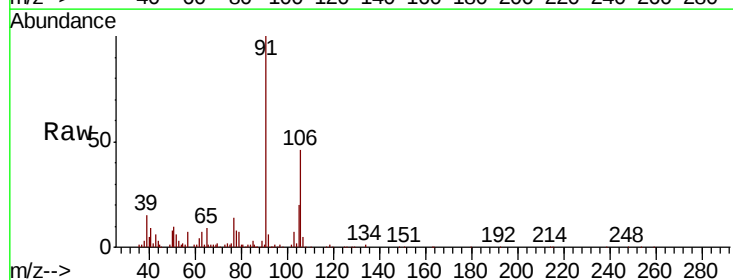
Acq: 20 Aug 2018 20:44

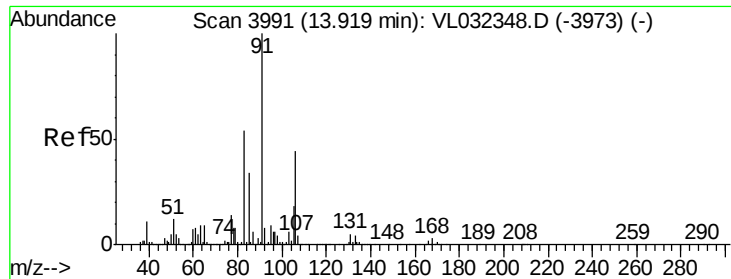
Tgt Ion: 91 Resp: 257548

Ion Ratio Lower Upper

91 100

106 45.8 37.0 55.4

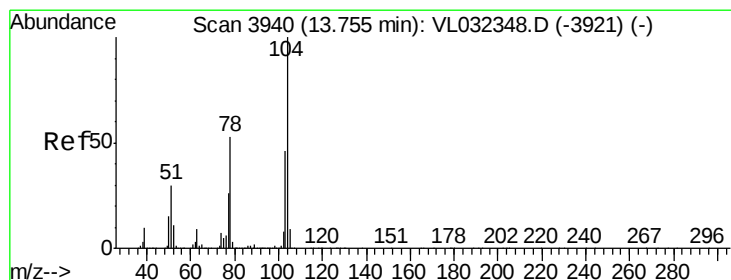
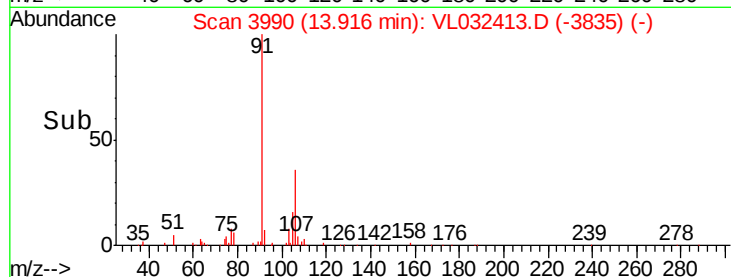
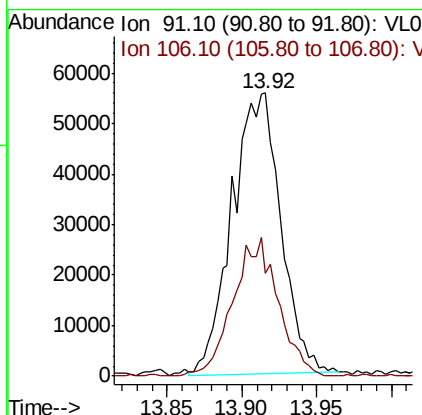
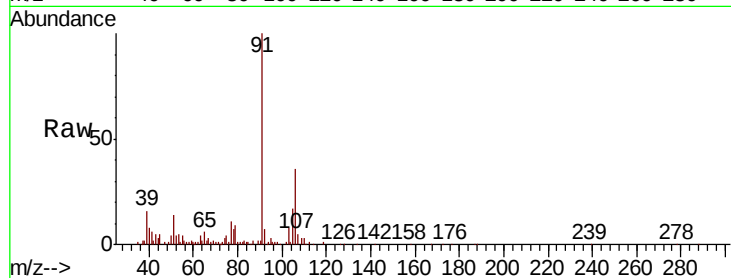




#60
o-Xylene
Concen: 0.365 ppbv
RT: 13.92 min Scan# 3990
Delta R.T. -0.00 min
Lab File: VL032413.D
Acq: 20 Aug 2018 20:44

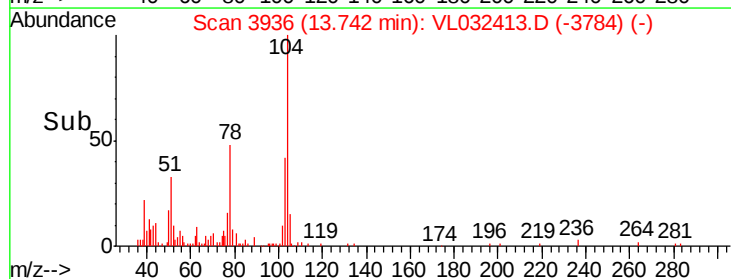
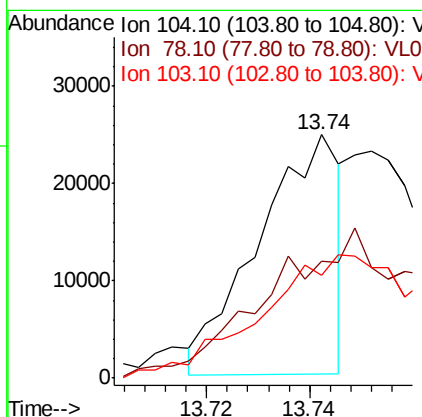
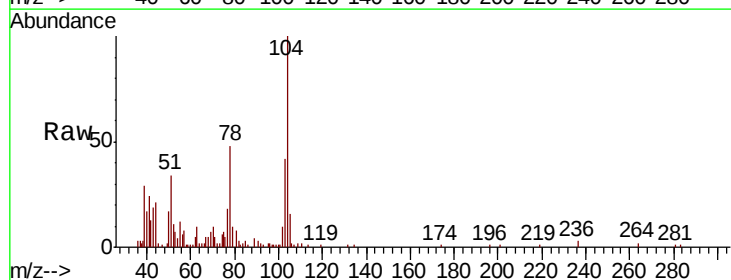
Instrument :
MSVOA_L
ClientSampleId :

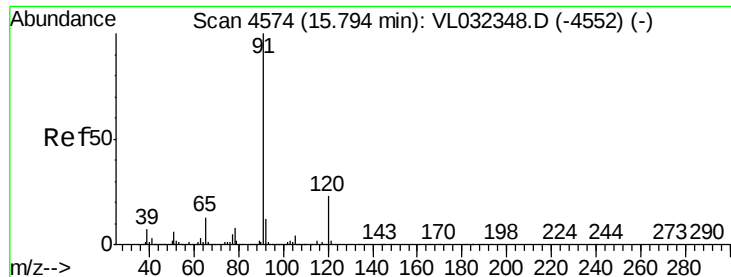
Tot Ion: 91 Resp: 126120
Ion Ratio Lower Upper
91 100
106 45.5 22.3 66.8



#61
Styrene
Concen: 0.112 ppbv
RT: 13.74 min Scan# 3936
Delta R.T. -0.01 min
Lab File: VL032413.D
Acq: 20 Aug 2018 20:44

Tgt Ion: 104 Resp: 26962
Ion Ratio Lower Upper
104 100
78 0.0 42.6 64.0#
103 0.0 38.0 57.0#





#64

n-propylbenzene

Concen: 0.032 ppbv

RT: 15.99 min Scan# 4636

Delta R.T. 0.20 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

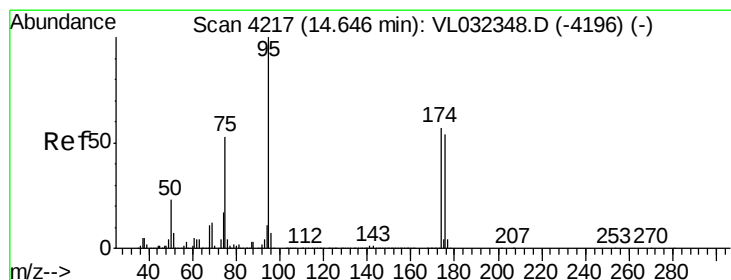
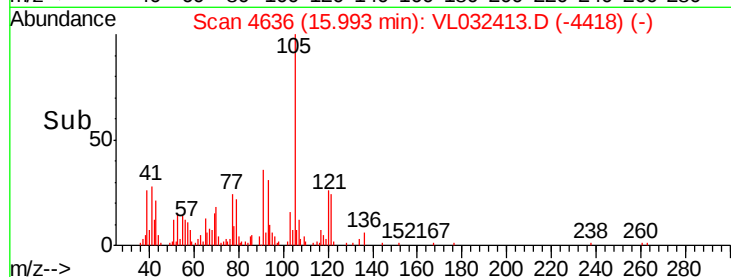
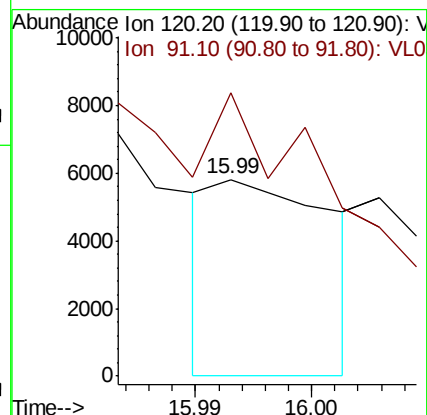
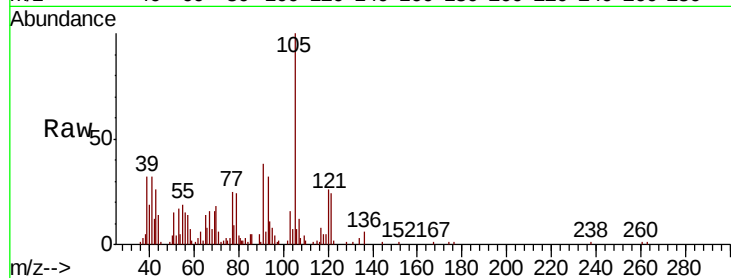
ClientSampleId :

Tot Ion:120 Resp: 4078

Ion Ratio Lower Upper

120 100

91 460.9 382.2 573.2



#68

1-Bromo-4-Fluorobenzene

Concen: 10.134 ppbv

RT: 14.64 min Scan# 4214

Delta R.T. -0.01 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

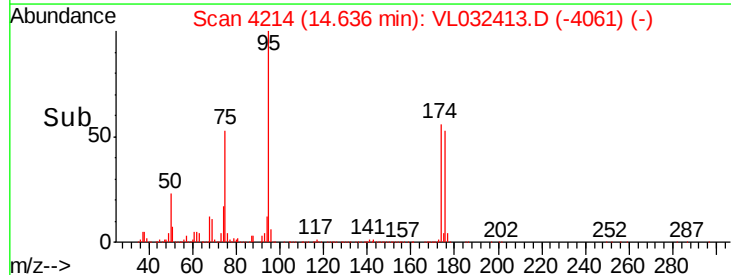
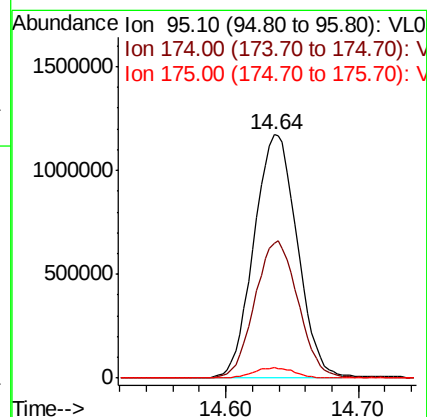
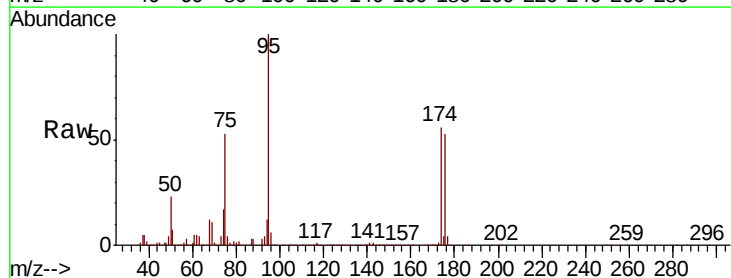
Tgt Ion: 95 Resp: 2659919

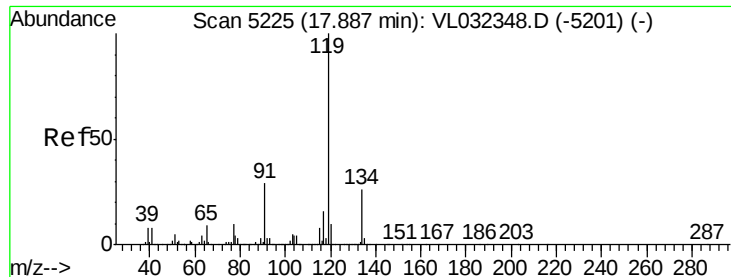
Ion Ratio Lower Upper

95 100

174 57.0 46.2 69.4

175 4.1 3.4 5.0

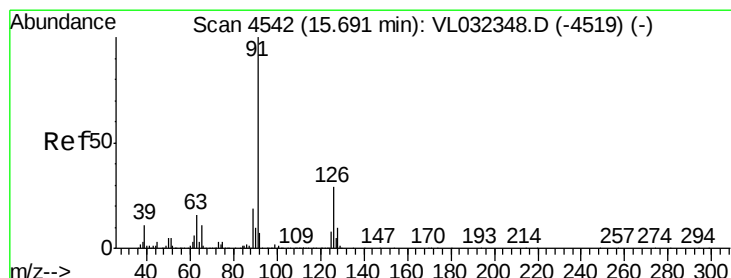
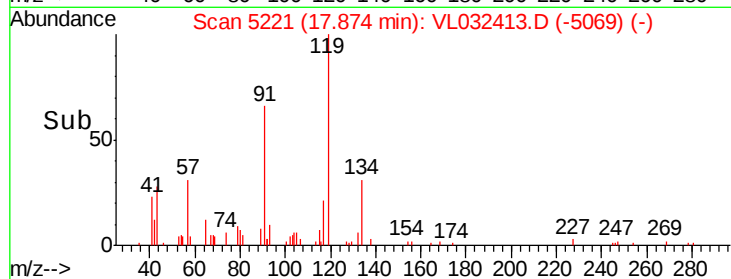
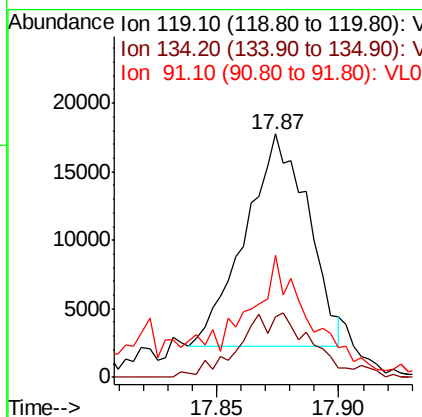
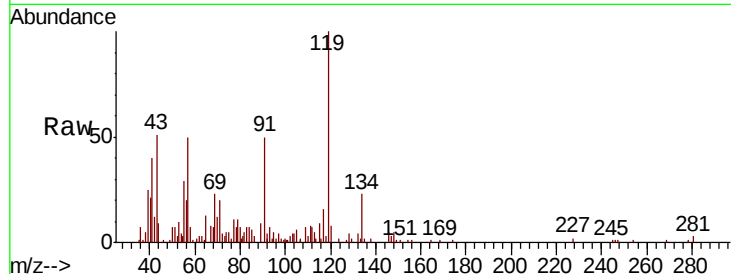




#69
 p-Isopropyltoluene
 Concen: 0.058 ppbv
 RT: 17.87 min Scan# 5221
 Delta R.T. -0.01 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

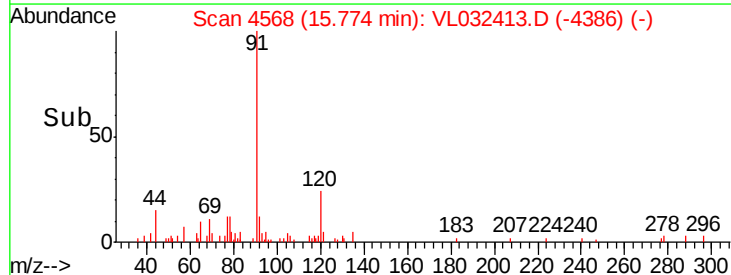
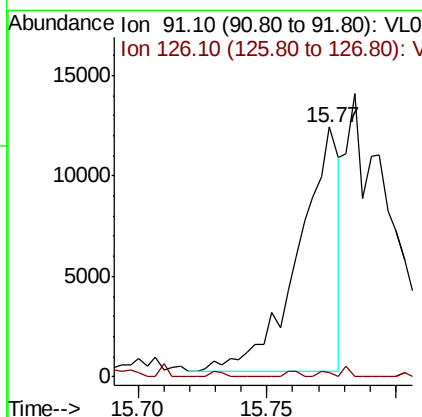
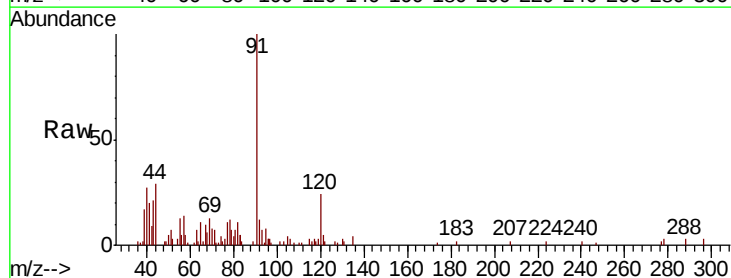
Instrument :
 MSVOA_L
 ClientSampleId :

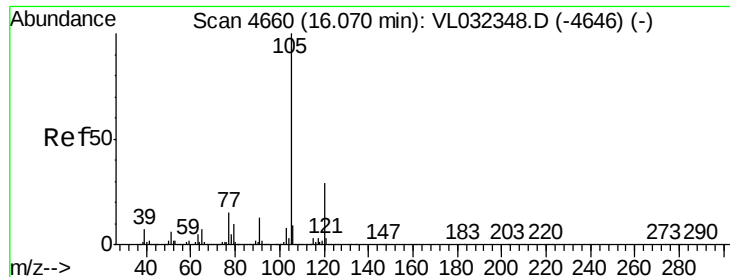
Tot Ion	Ratio	Lower	Upper
119	100		
134	35.5	20.4	30.6#
91	59.8	23.6	35.4#



#71
 2-Chlorotoluene
 Concen: 0.035 ppbv
 RT: 15.77 min Scan# 4568
 Delta R.T. 0.08 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Tgt Ion	Ratio	Lower	Upper
91	100		
126	1.5	11.8	47.2#





#72

4-Ethyltoluene

Concen: 0.033 ppbv

RT: 16.06 min Scan# 4658

Delta R.T. -0.01 min

Lab File: VL032413.D

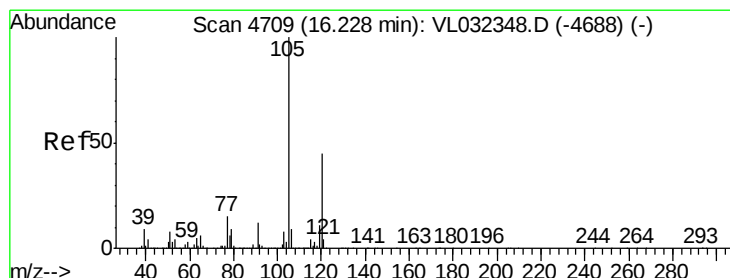
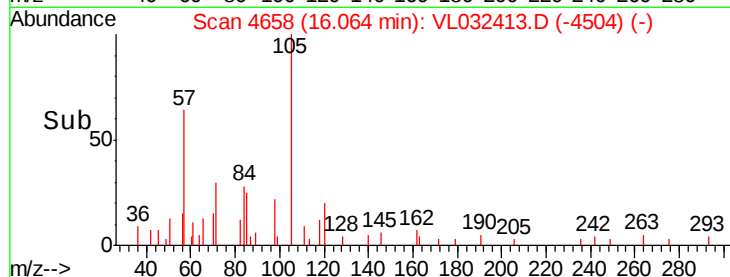
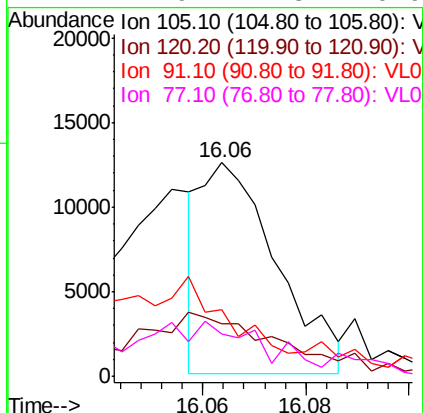
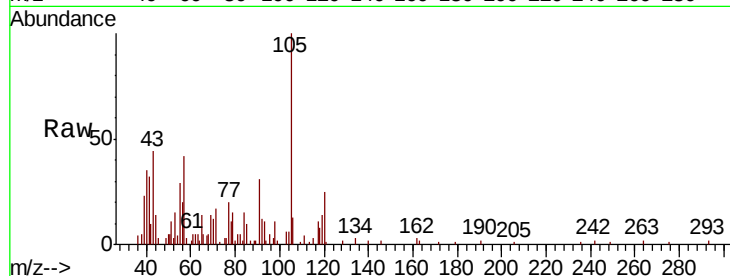
Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	105	Resp:	12648
Ion	Ratio	Lower	Upper
105	100		
120	68.1	23.4	35.0#
91	96.3	10.0	15.0#
77	42.9	11.3	16.9#



#73

1,3,5-Trimethylbenzene

Concen: 0.043 ppbv

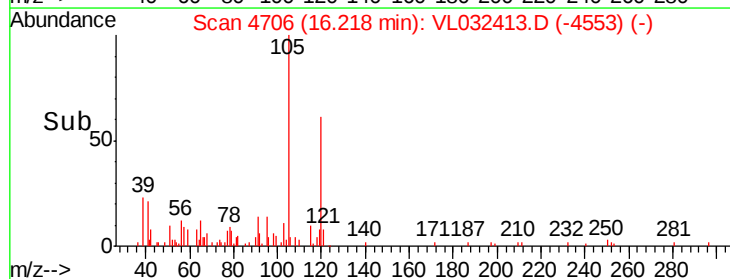
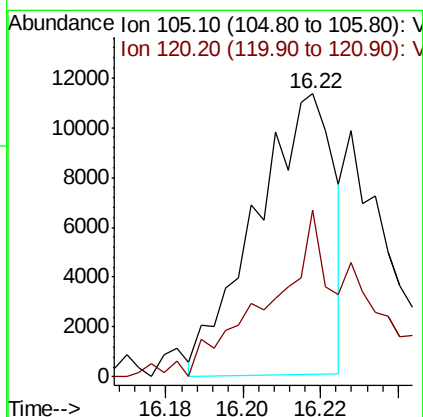
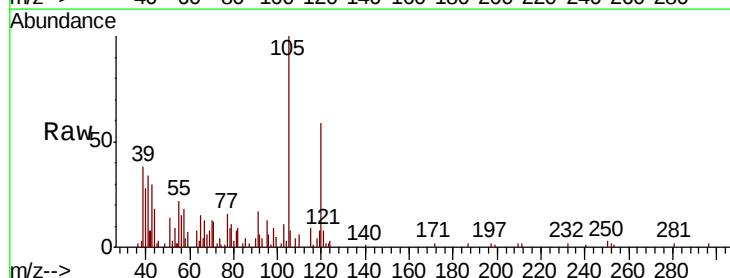
RT: 16.22 min Scan# 4706

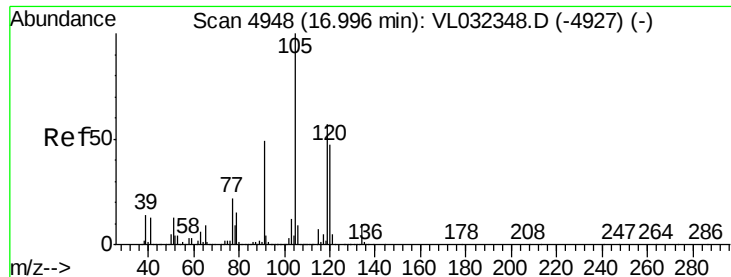
Delta R.T. -0.01 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Tgt Ion:	105	Resp:	15822
Ion	Ratio	Lower	Upper
105	100		
120	62.3	36.3	54.5#





#74

1,2,4-Trimethylbenzene

Concen: 0.219 ppbv

RT: 16.99 min Scan# 4946

Delta R.T. -0.01 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105 Resp: 86565

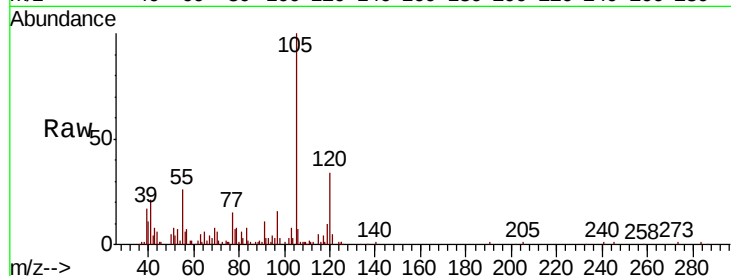
Ion Ratio Lower Upper

105 100

120 31.8 37.6 56.4#

91 10.6 39.9 59.9#

77 13.2 17.8 26.8#



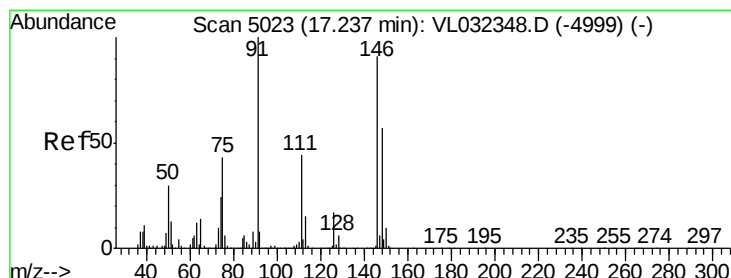
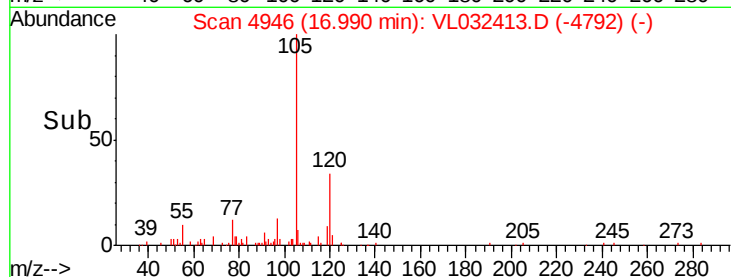
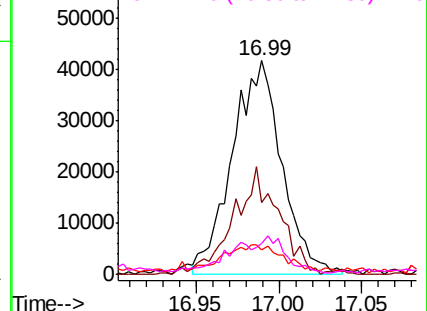
Abundance

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



#75

1,3-Dichlorobenzene

Concen: 35.917 ppbv

RT: 17.38 min Scan# 5066

Delta R.T. 0.14 min

Lab File: VL032413.D

Acq: 20 Aug 2018 20:44

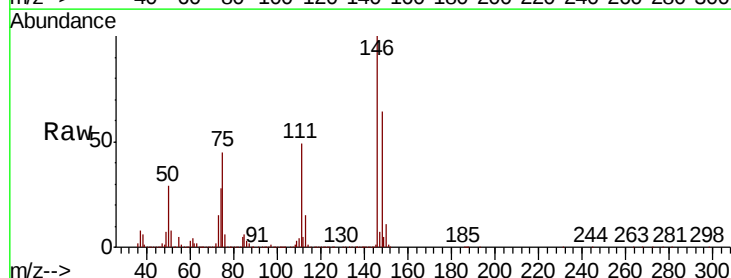
Tgt Ion:146 Resp: 8514927

Ion Ratio Lower Upper

146 100

111 48.2 24.6 73.8

148 64.6 32.0 96.0

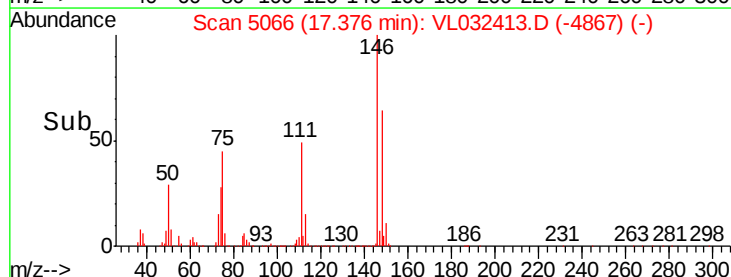
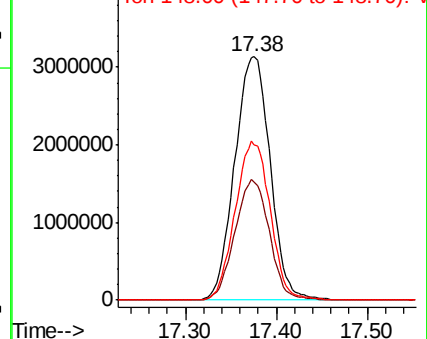


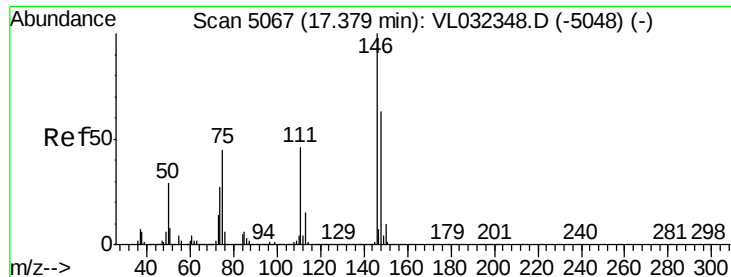
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



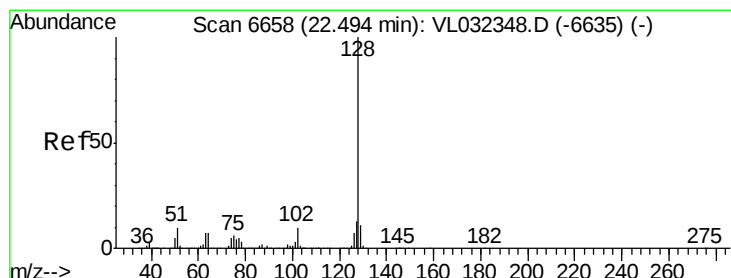
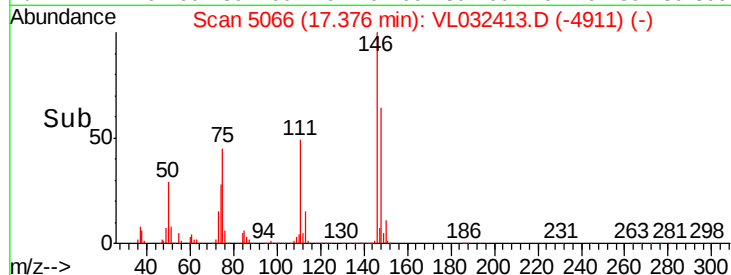
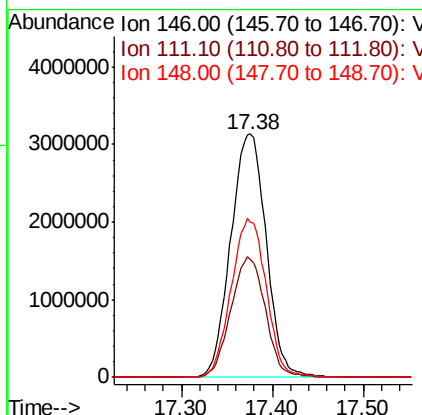
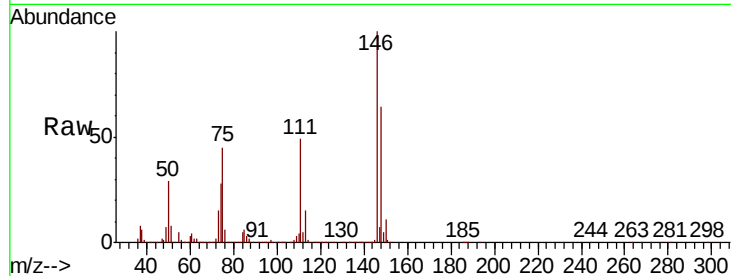


#76
 1,4-Dichlorobenzene
 Concen: 37.918 ppbv
 RT: 17.38 min Scan# 5066
 Delta R.T. -0.00 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:146 Resp: 8514927

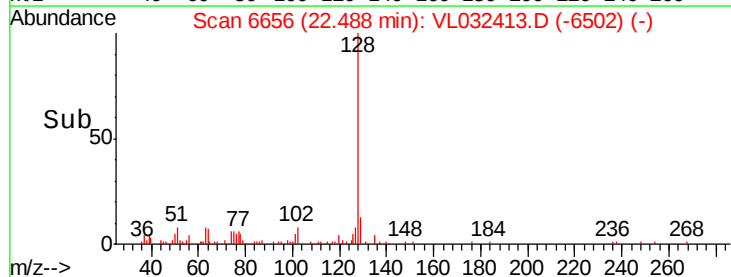
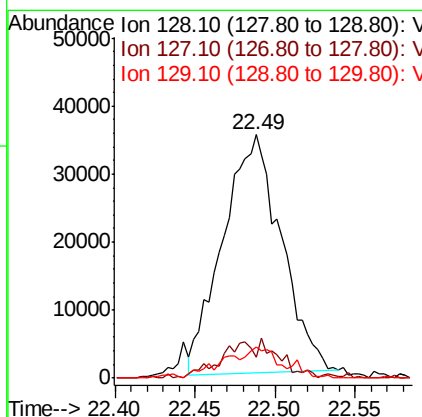
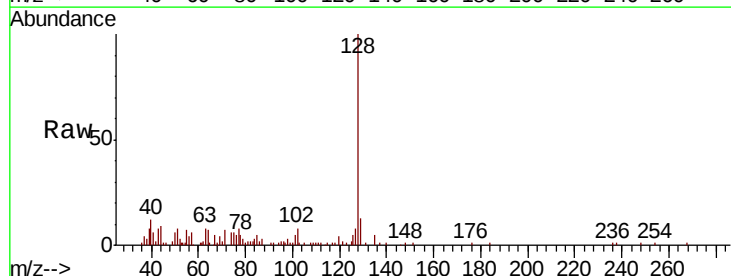
Ion	Ratio	Lower	Upper
146	100		
111	48.3	23.8	71.4
148	64.6	32.2	96.6

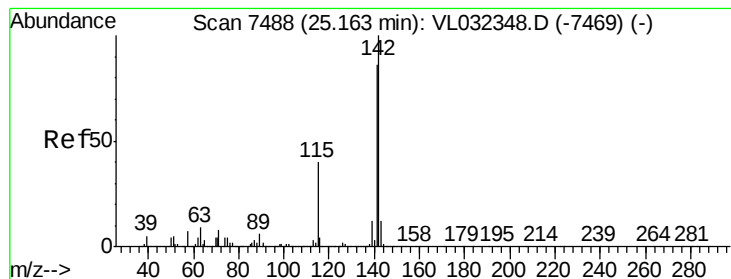


#79
 Naphthalene
 Concen: 0.556 ppbv
 RT: 22.49 min Scan# 6656
 Delta R.T. -0.01 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Tgt Ion:128 Resp: 87242

Ion	Ratio	Lower	Upper
128	100		
127	8.0	10.3	15.5#
129	13.4	8.6	13.0#

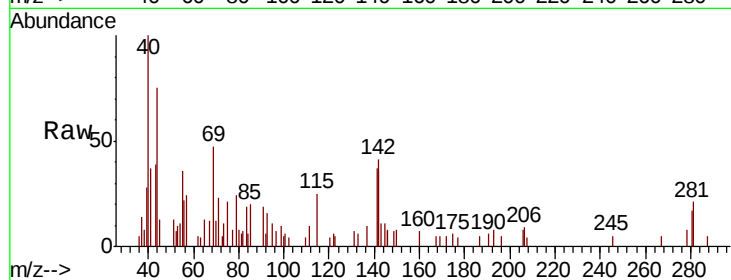




#80
 Naphthalene, 2-methyl-
 Concen: 0.075 ppbv
 RT: 25.15 min Scan# 7484
 Delta R.T. -0.01 min
 Lab File: VL032413.D
 Acq: 20 Aug 2018 20:44

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
142	100		
141	81.9	66.7	100.1
115	55.0	31.0	46.6



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

