

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL090518\
 Data File : VL032458.D
 Acq On : 5 Sep 2018 15:21
 Operator : SY/AP
 Sample : J4717-02DL 20X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-04DL

Quant Time: Sep 06 04:59:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018
 QLast Update : Fri Aug 31 21:33:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1693924	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.33	114	3443841	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.29	117	3258940	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2523322	10.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

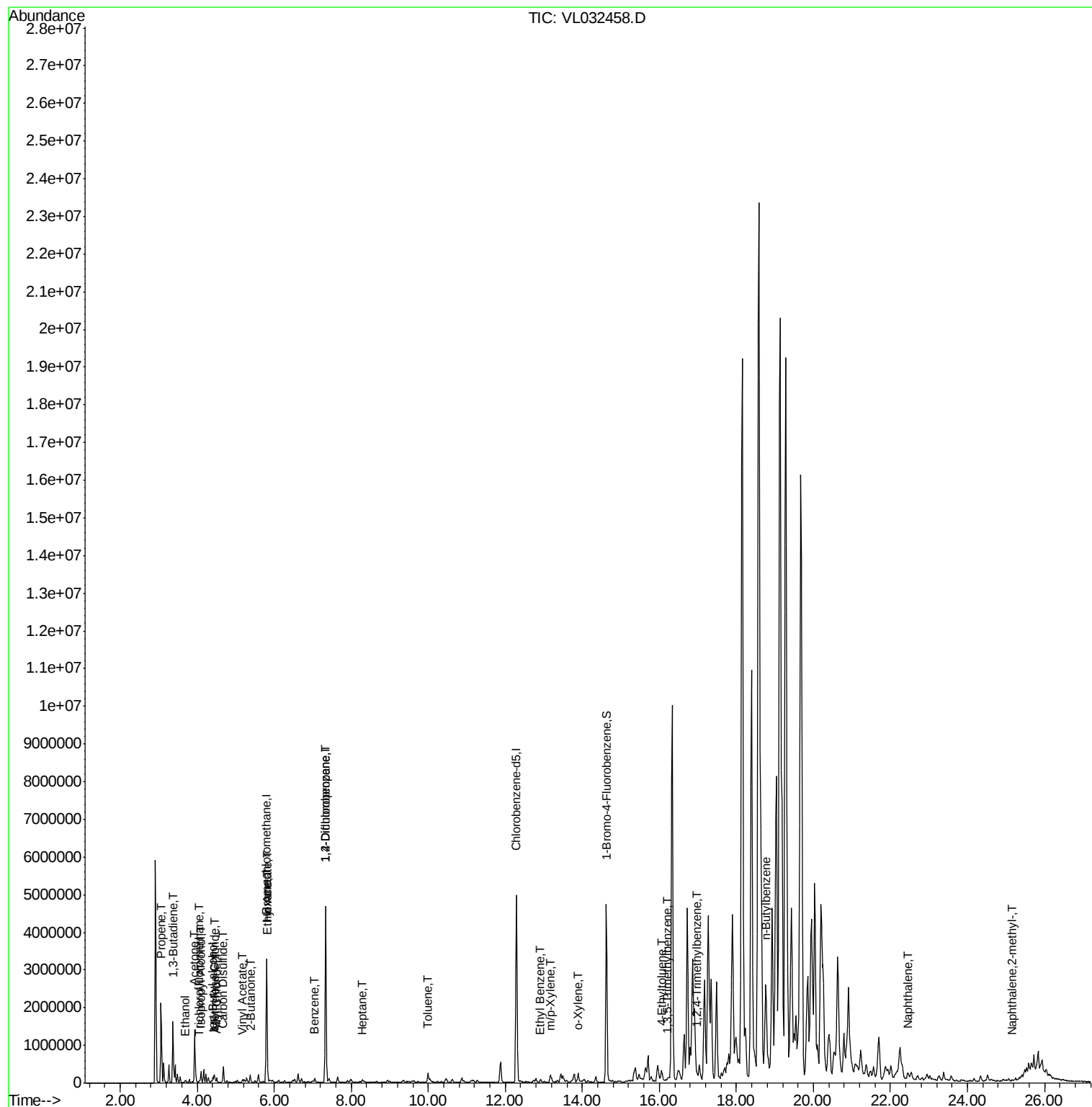
Target Compounds					Qvalue	
9) Propene	3.06	41	902896	14.597	ppbv	94
10) Heptane	8.29	43	13543	0.061	ppbv #	1
11) Trichlorofluoromethane	4.04	101	6386	0.033	ppbv	86
13) Ethanol	3.68	45	24293	1.260	ppbv #	39
15) Acetone	3.93	43	1450798	9.511	ppbv	98
16) 1,3-Butadiene	3.37	39	478130	6.661	ppbv #	17
17) tert-Butyl alcohol	4.41	59	53244	2.268	ppbv #	100
19) Isopropyl Alcohol	4.08	45	17824	0.178	ppbv #	93
20) Methylene Chloride	4.45	84	66614	1.145	ppbv	89
21) Allyl Chloride	4.50	41	9089	0.090	ppbv #	1
23) Vinyl Acetate	5.19	43	23551	0.093	ppbv #	60
25) Ethyl Acetate	5.82	43	93354	0.259	ppbv #	79
26) Hexane	5.82	57	123146	0.763	ppbv #	39
27) Carbon Disulfide	4.66	76	6193	0.042	ppbv #	1
34) 2-Butanone	5.38	43	216460	0.946	ppbv	97
36) Benzene	7.04	78	77320	0.264	ppbv	97
39) 1,2-Dichloropropane	7.33	63	925216	7.379	ppbv #	25
53) Toluene	10.00	91	186939	0.610	ppbv	98
58) Ethyl Benzene	12.91	91	61008	0.156	ppbv	94
59) m/p-Xylene	13.18	91	85003	0.244	ppbv #	31
60) o-Xylene	13.90	91	33750	0.099	ppbv #	25
70) n-Butylbenzene	18.77	91	36205	0.066	ppbv #	70
72) 4-Ethyltoluene	16.04	105	19907	0.053	ppbv #	50
73) 1,3,5-Trimethylbenzene	16.21	105	14636	0.039	ppbv #	63
74) 1,2,4-Trimethylbenzene	16.97	105	97955	0.240	ppbv #	76
79) Naphthalene	22.47	128	10161	0.031	ppbv #	79
80) Naphthalene,2-methyl-	25.16	142	3252	0.037	ppbv #	84

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.80 min Scan# 1466

Delta R.T. -0.01 min

Lab File: VL032458.D

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Instrument :

MSVOA_L

ClientSampleId :

VP-04DL

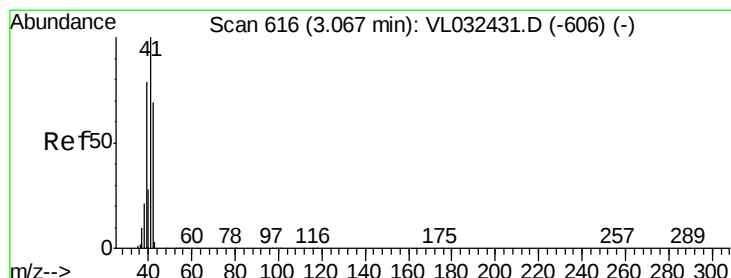
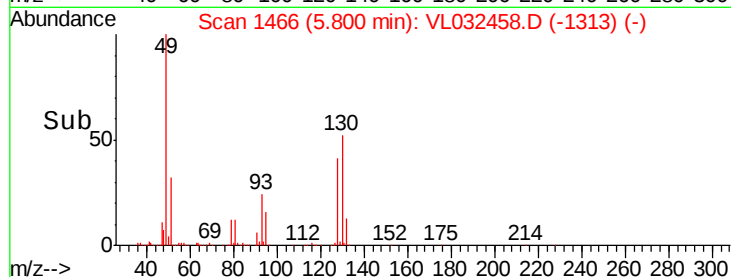
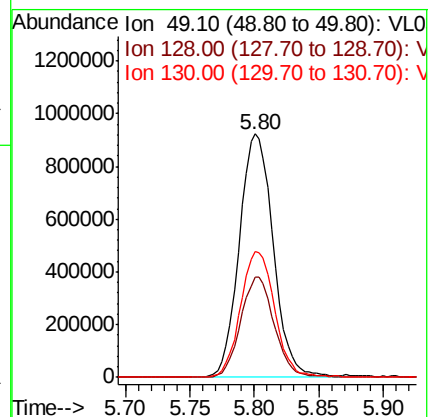
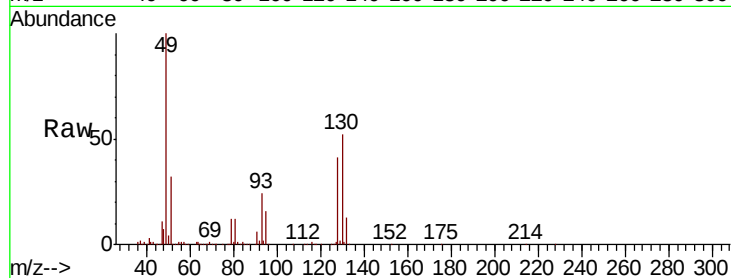
Tgt Ion: 49 Resp: 1693924

Ion Ratio Lower Upper

49 100

128 40.8 20.7 62.1

130 52.6 26.6 79.7



#9

Propene

Concen: 14.597 ppbv

RT: 3.06 min Scan# 614

Delta R.T. -0.01 min

Lab File: VL032458.D

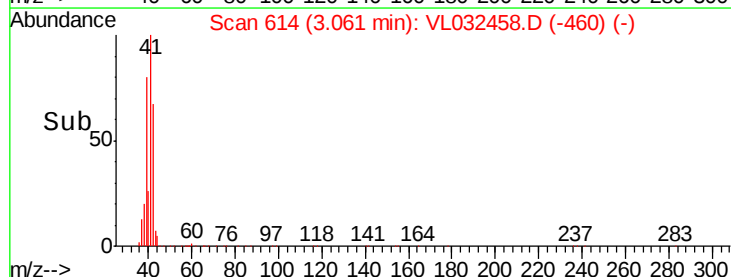
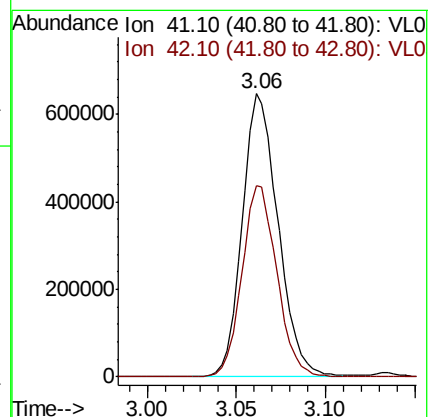
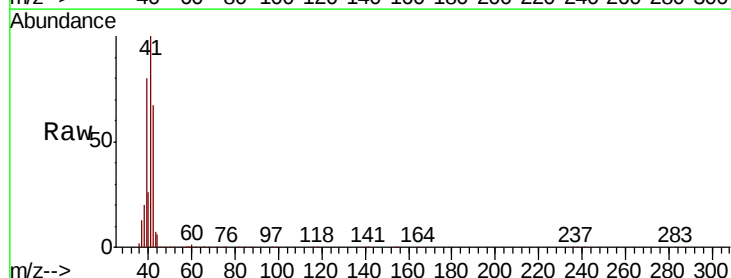
Acq: 5 Sep 2018 15:21

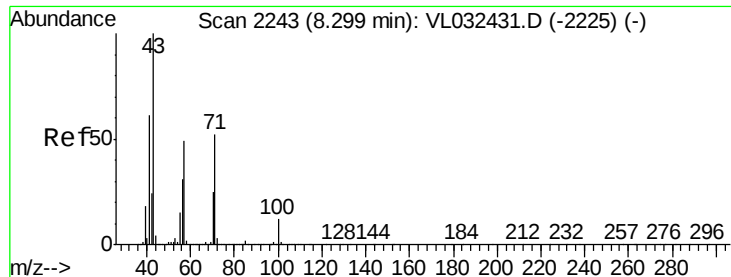
Tgt Ion: 41 Resp: 902896

Ion Ratio Lower Upper

41 100

42 66.0 56.6 84.8





#10

Heptane

Concen: 0.061 ppbv

RT: 8.29 min Scan# 2240

Delta R.T. -0.01 min

Lab File: VL032458.D

Acq: 5 Sep 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

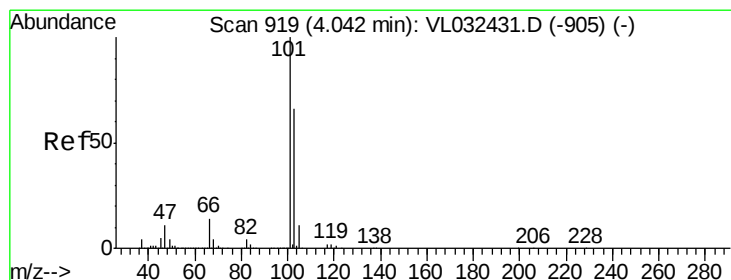
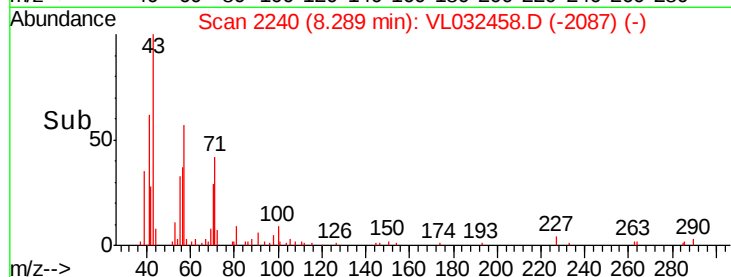
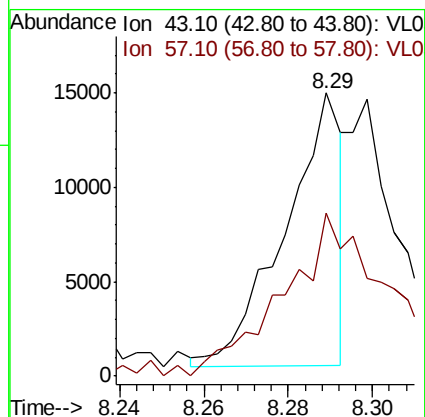
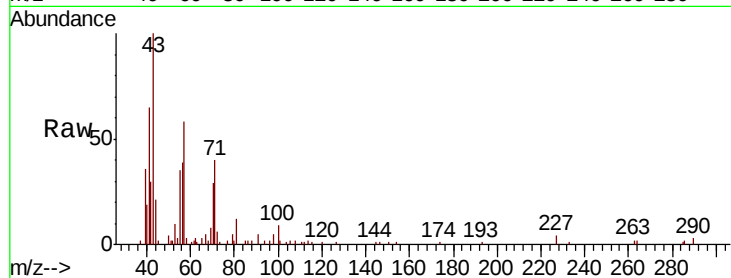
VP-04DL

Tgt Ion: 43 Resp: 13543

Ion Ratio Lower Upper

43 100

57 121.7 39.6 59.4#



#11

Trichlorofluoromethane

Concen: 0.033 ppbv

RT: 4.04 min Scan# 918

Delta R.T. -0.00 min

Lab File: VL032458.D

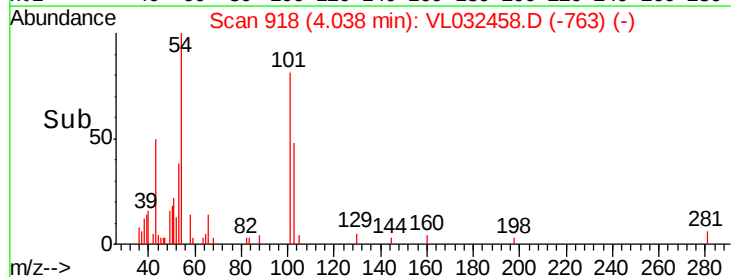
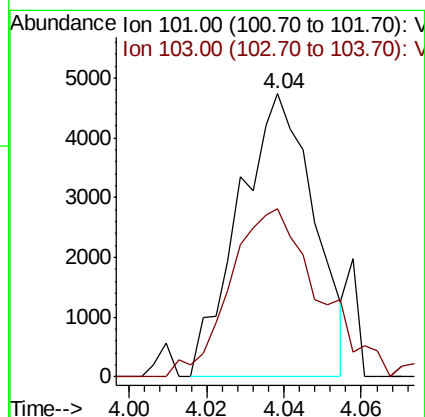
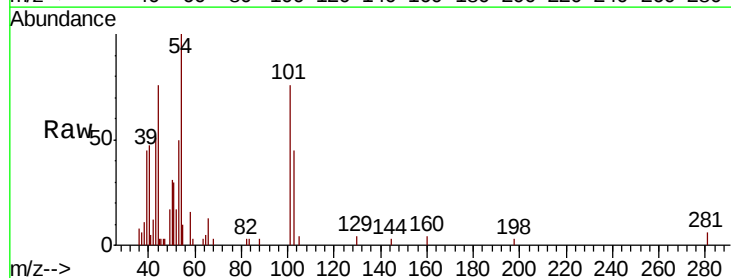
Acq: 5 Sep 2018 15:21

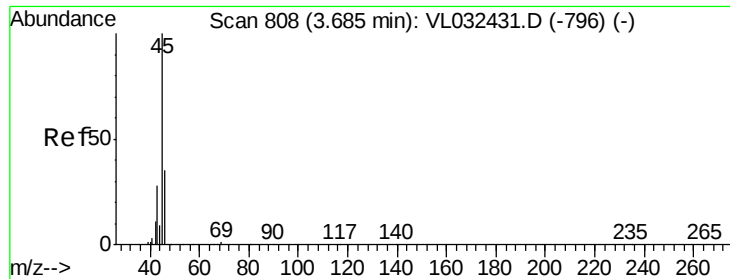
Tgt Ion: 101 Resp: 6386

Ion Ratio Lower Upper

101 100

103 54.9 52.8 79.2





#13

Ethanol

Concen: 1.260 ppbv

RT: 3.68 min Scan# 808

Delta R.T. 0.00 min

Lab File: VL032458.D

Acq: 5 Sep 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

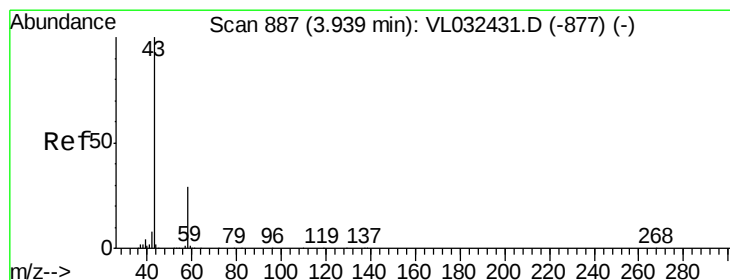
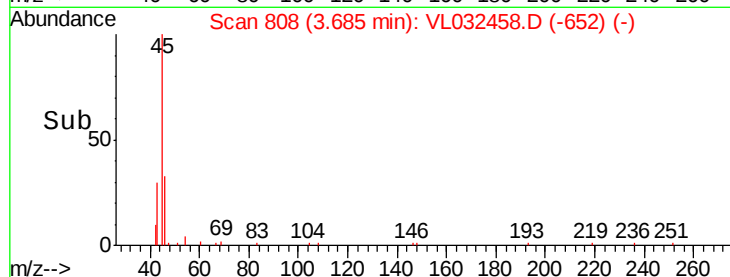
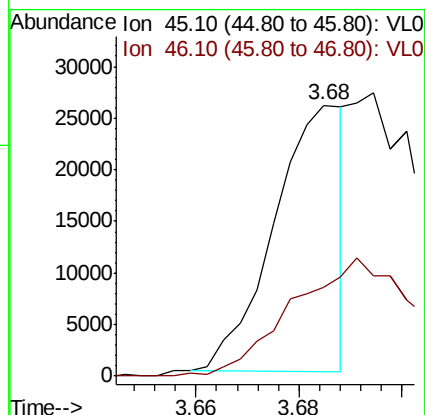
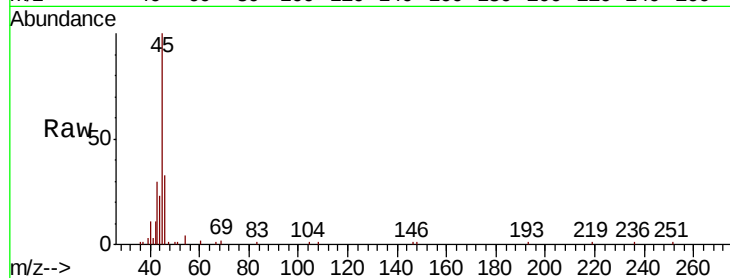
VP-04DL

Tgt Ion: 45 Resp: 24293

Ion Ratio Lower Upper

45 100

46 0.0 14.2 56.8#



#15

Acetone

Concen: 9.511 ppbv

RT: 3.93 min Scan# 885

Delta R.T. -0.01 min

Lab File: VL032458.D

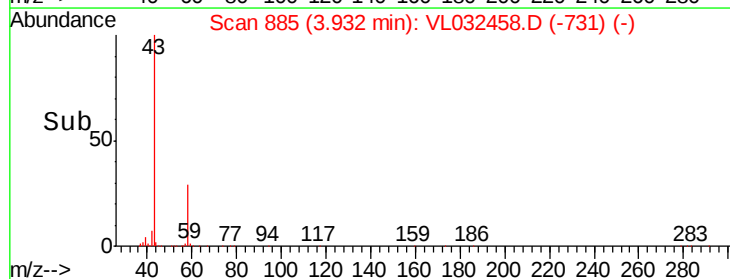
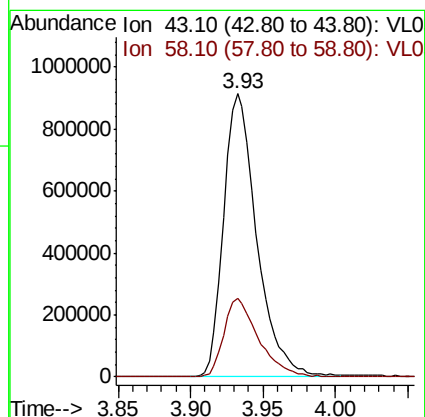
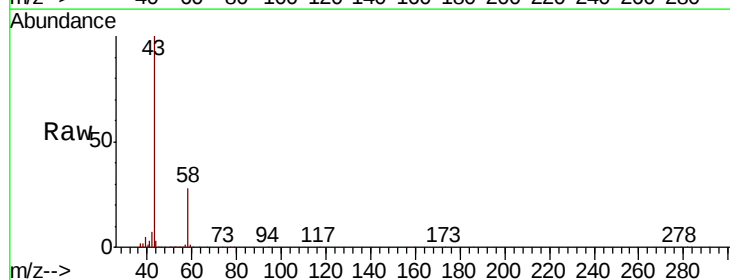
Acq: 5 Sep 2018 15:21

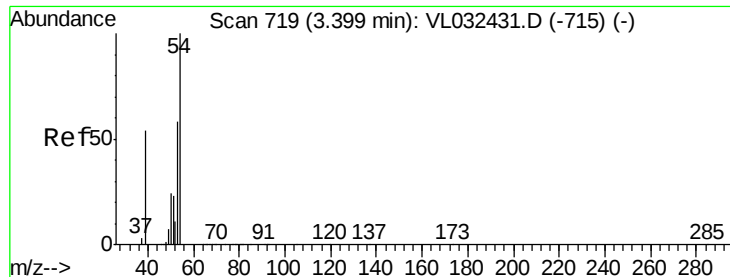
Tgt Ion: 43 Resp: 1450798

Ion Ratio Lower Upper

43 100

58 29.2 22.6 33.8





#16

1,3-Butadiene

Concen: 6.661 ppbv

RT: 3.37 min Scan# 711

Delta R.T. -0.03 min

Lab File: VL032458.D

Acq: 5 Sep 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

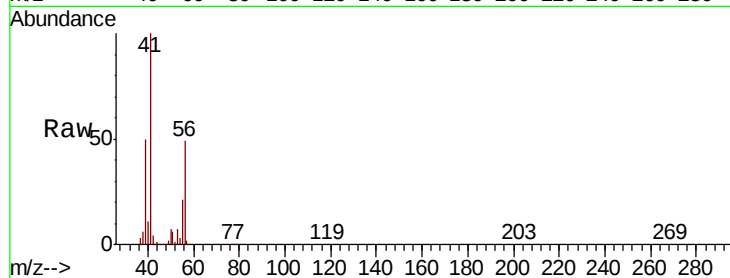
VP-04DL

Tgt Ion: 39 Resp: 478130

Ion Ratio Lower Upper

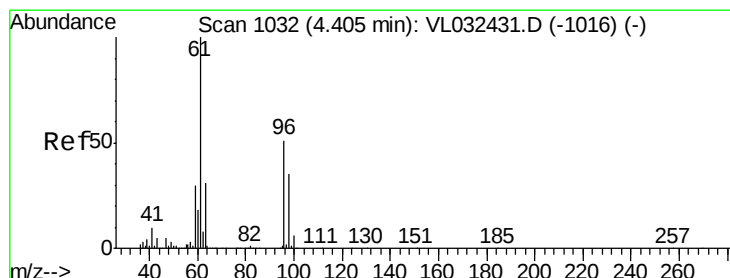
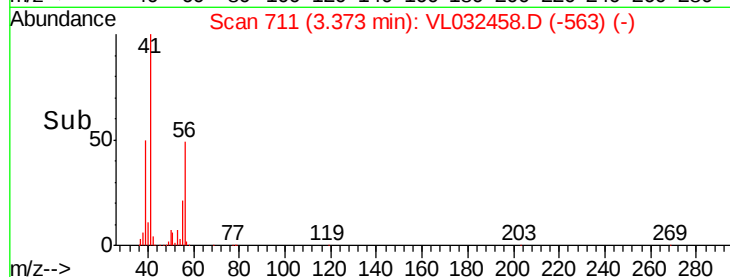
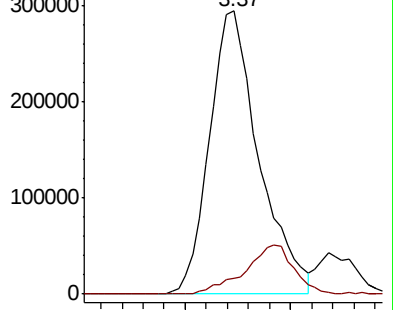
39 100

54 17.6 80.8 121.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



#17

tert-Butyl alcohol

Concen: 2.268 ppbv

RT: 4.41 min Scan# 1033

Delta R.T. 0.00 min

Lab File: VL032458.D

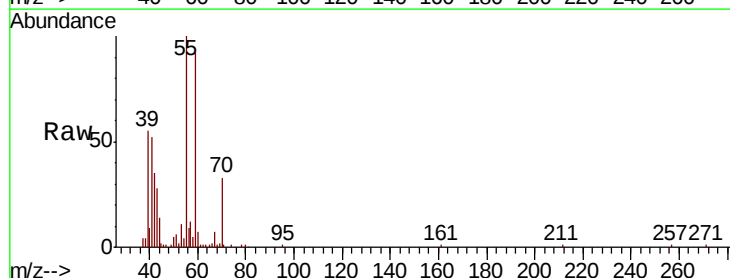
Acq: 5 Sep 2018 15:21

Tgt Ion: 59 Resp: 53244

Ion Ratio Lower Upper

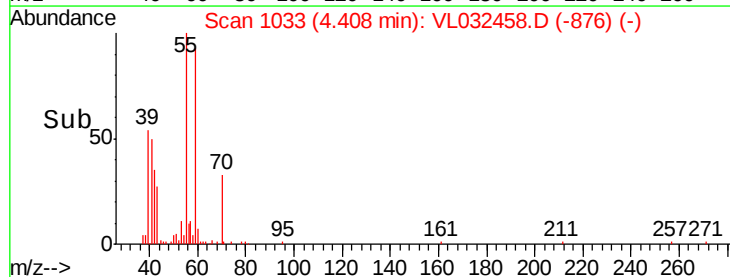
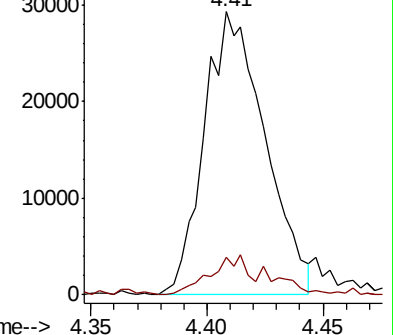
59 100

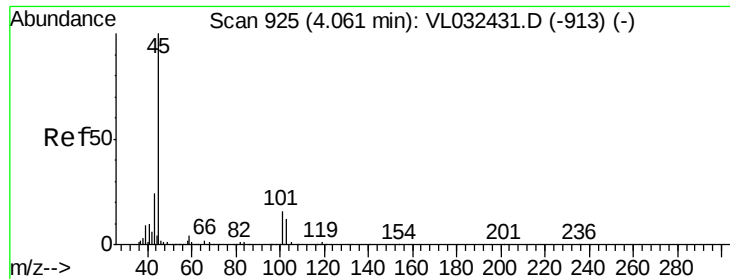
57 13.8 0.0 0.0#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#19

Isopropyl Alcohol

Concen: 0.178 ppbv

RT: 4.08 min Scan# 931

Delta R.T. 0.02 min

Lab File: VL032458.D

Acq: 5 Sep 2018 15:21

Instrument :

MSVOA_L

ClientSampled :

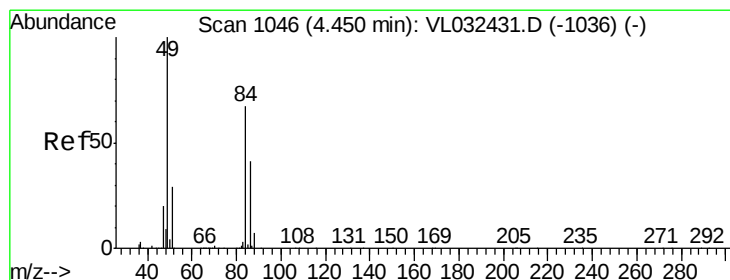
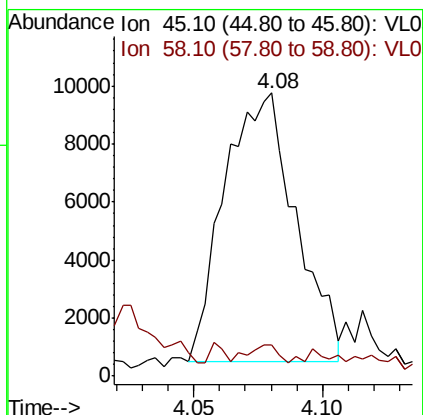
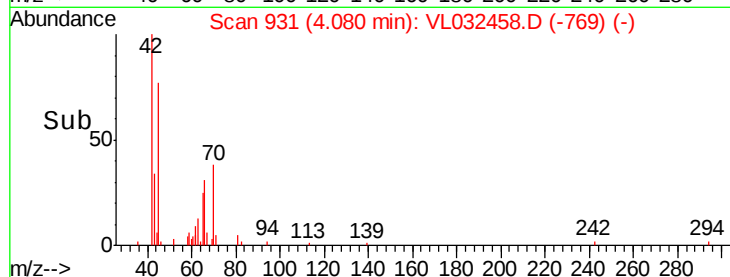
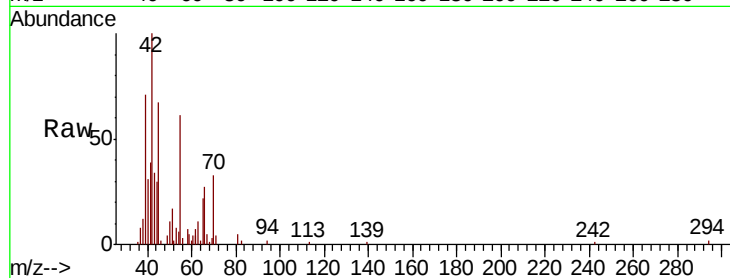
VP-04DL

Tgt Ion: 45 Resp: 17824

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



#20

Methylene Chloride

Concen: 1.145 ppbv

RT: 4.45 min Scan# 1045

Delta R.T. -0.00 min

Lab File: VL032458.D

Acq: 5 Sep 2018 15:21

Tgt Ion: 84 Resp: 66614

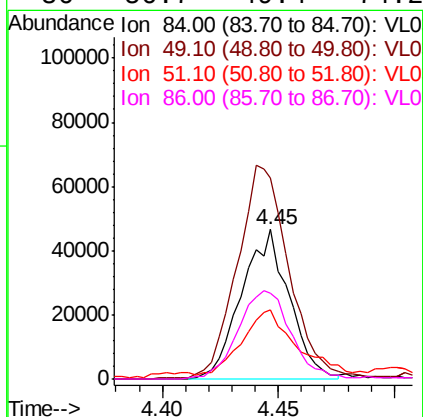
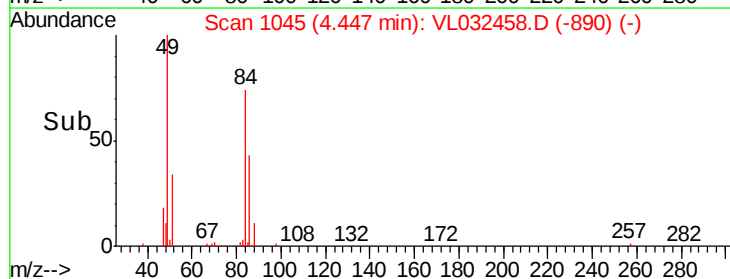
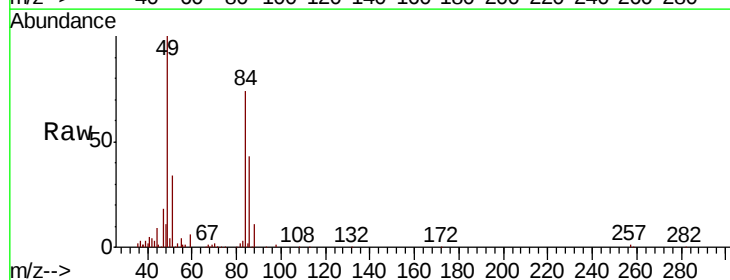
Ion Ratio Lower Upper

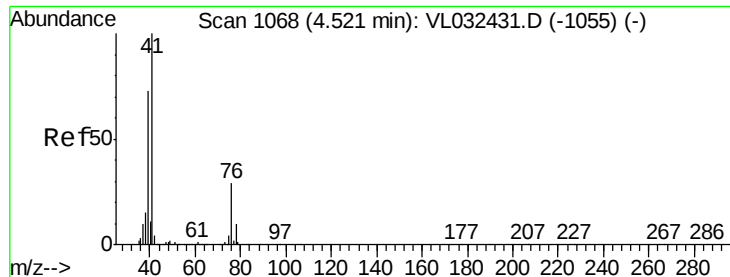
84 100

49 130.6 119.1 178.7

51 41.7 35.2 52.8

86 56.7 49.4 74.2

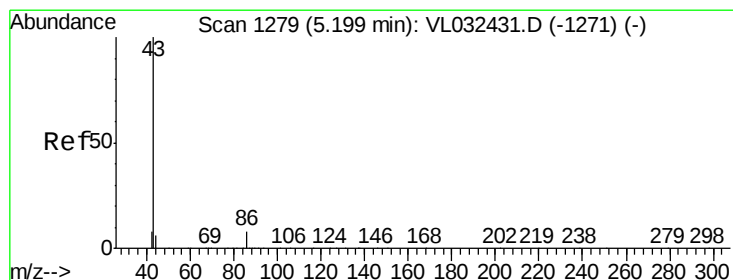
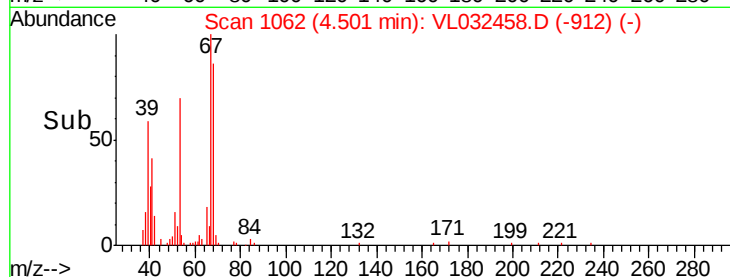
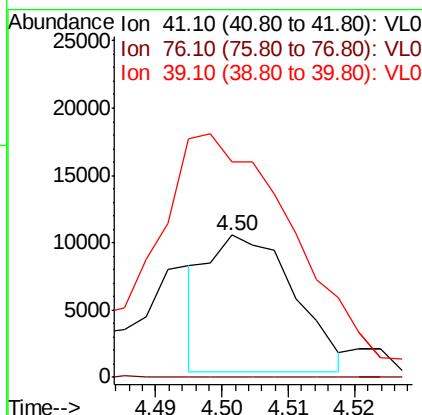
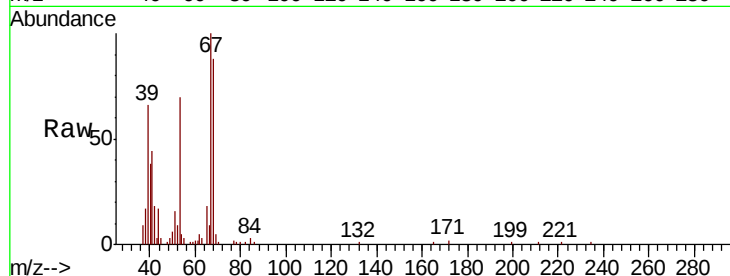




#21
 Allyl Chloride
 Concen: 0.090 ppbv
 RT: 4.50 min Scan# 1062
 Delta R.T. -0.02 min
 Lab File: VL032458.D
 Acq: 5 Sep 2018 15:21

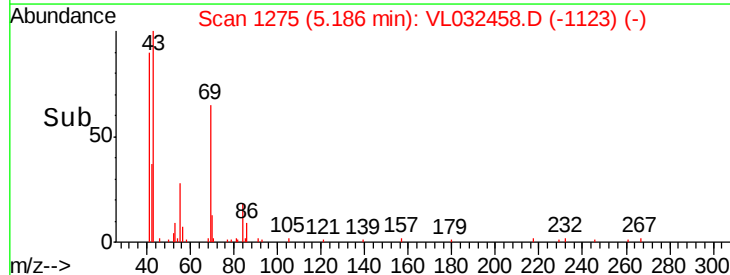
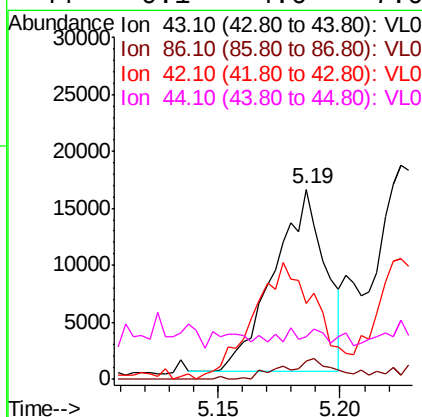
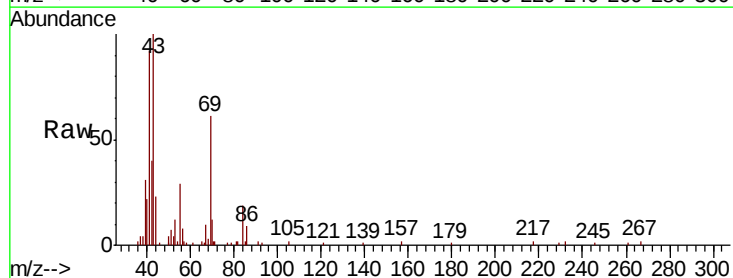
Instrument :
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 VP-04DL

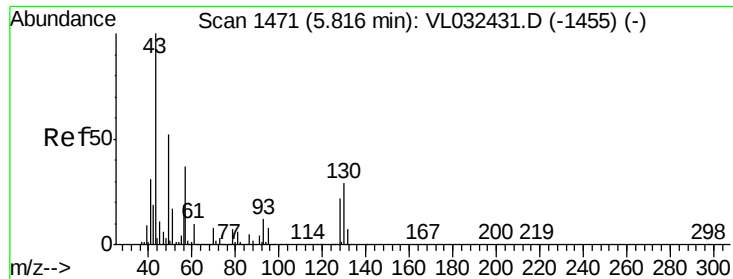
Tgt Ion: 41 Resp: 9089
 Ion Ratio Lower Upper
 41 100
 76 0.0 23.6 35.4#
 39 351.1 57.7 86.5#



#23
 Vinyl Acetate
 Concen: 0.093 ppbv
 RT: 5.19 min Scan# 1275
 Delta R.T. -0.01 min
 Lab File: VL032458.D
 Acq: 5 Sep 2018 15:21

Tgt Ion: 43 Resp: 23551
 Ion Ratio Lower Upper
 43 100
 86 9.7 5.9 8.9#
 42 38.4 6.9 10.3#
 44 0.1 4.6 7.0#

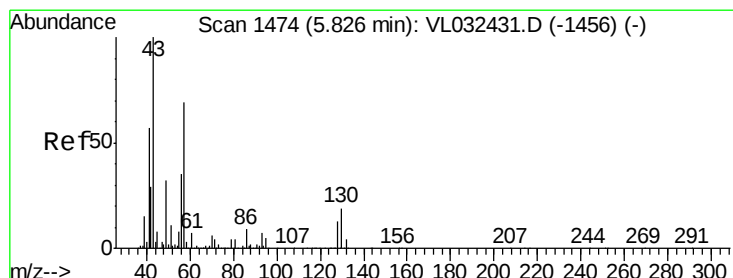
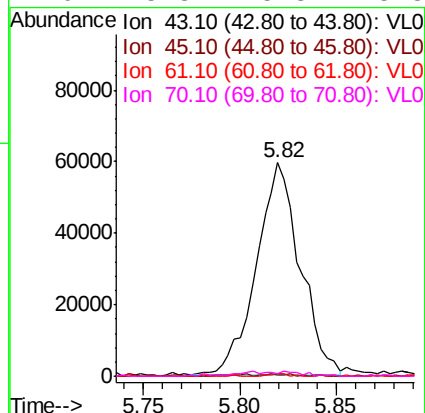
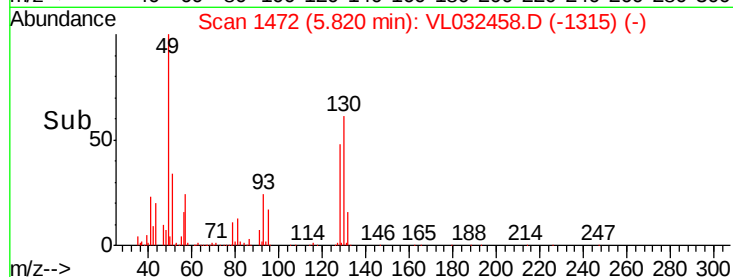
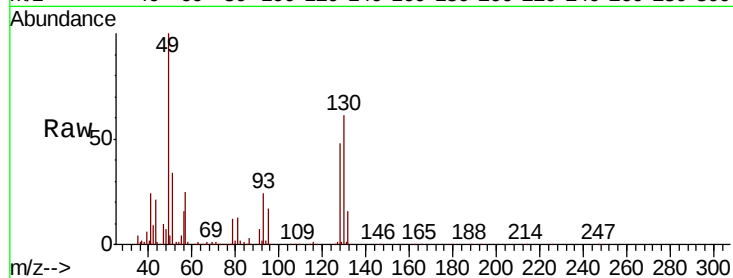




#25
Ethyl Acetate
Concen: 0.259 ppbv
RT: 5.82 min Scan# 1472
Delta R.T. 0.00 min
Lab File: VL032458.D
Acq: 5 Sep 2018 15:21

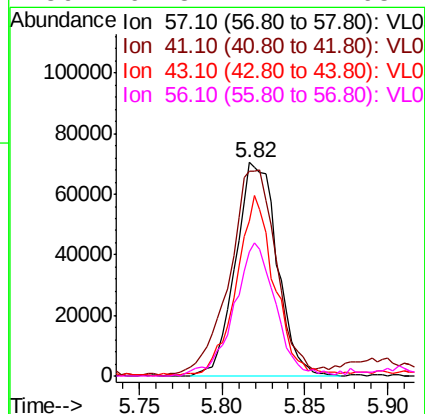
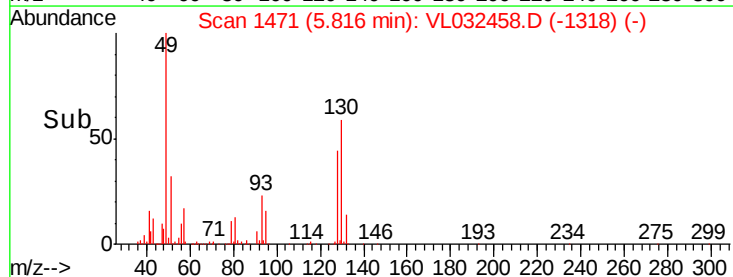
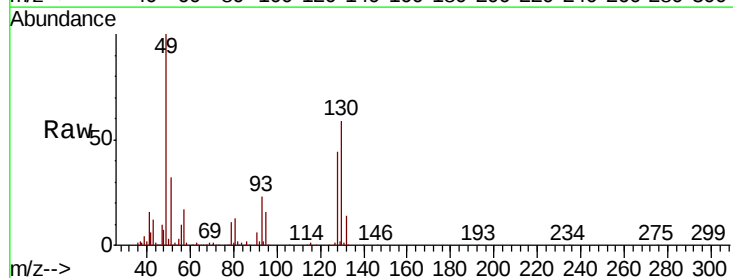
Instrument :
MSVOA_L
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VP-04DL

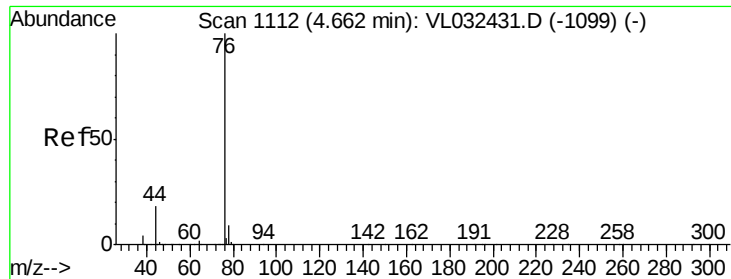
Tgt Ion:	43	Resp:	93354
Ion	Ratio	Lower	Upper
43	100		
45	1.2	8.0	12.0#
61	0.5	7.6	11.4#
70	3.3	5.8	8.8#



#26
Hexane
Concen: 0.763 ppbv
RT: 5.82 min Scan# 1471
Delta R.T. -0.01 min
Lab File: VL032458.D
Acq: 5 Sep 2018 15:21

Tgt Ion:	57	Resp:	123146
Ion	Ratio	Lower	Upper
57	100		
41	108.8	69.0	103.4#
43	77.3	172.1	258.1#
56	61.8	42.2	63.2





#27

Carbon Disulfide

Concen: 0.042 ppbv

RT: 4.66 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VL032458.D

Acq: 5 Sep 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VP-04DL

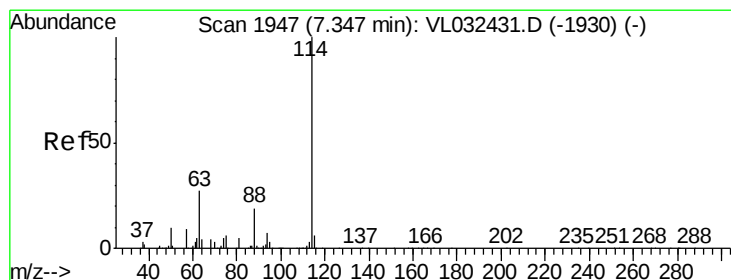
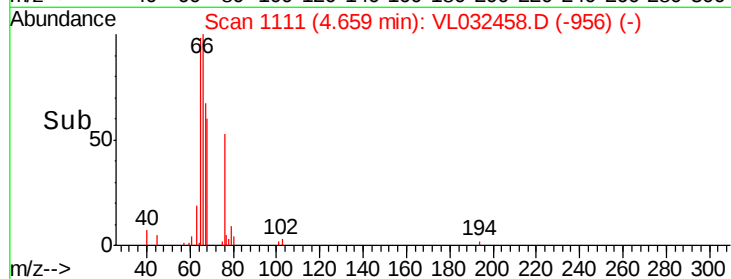
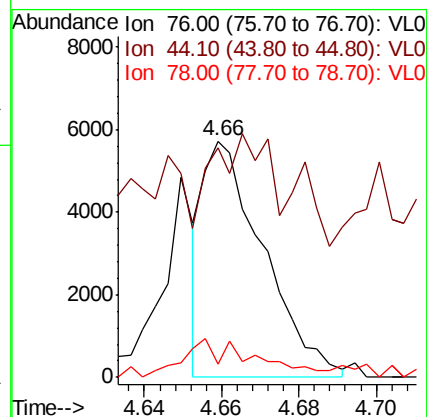
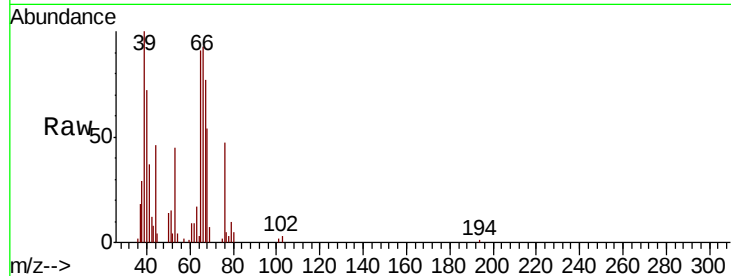
Tgt Ion: 76 Resp: 6193

Ion Ratio Lower Upper

76 100

44 216.7 14.0 21.0#

78 21.3 7.5 11.3#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.33 min Scan# 1943

Delta R.T. -0.01 min

Lab File: VL032458.D

Acq: 5 Sep 2018 15:21

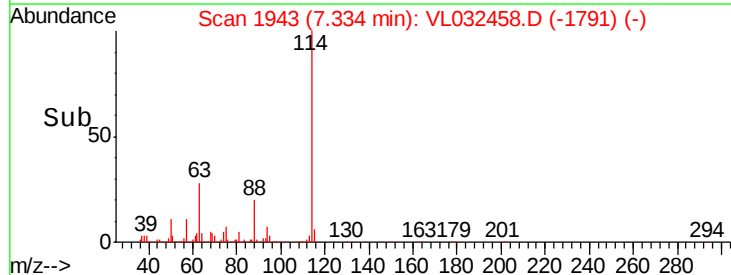
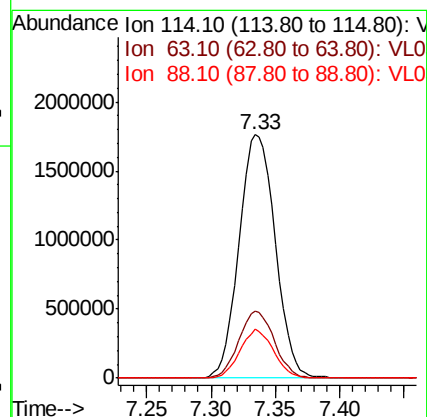
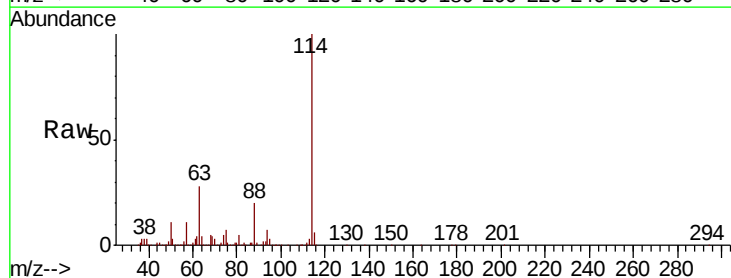
Tgt Ion: 114 Resp: 3443841

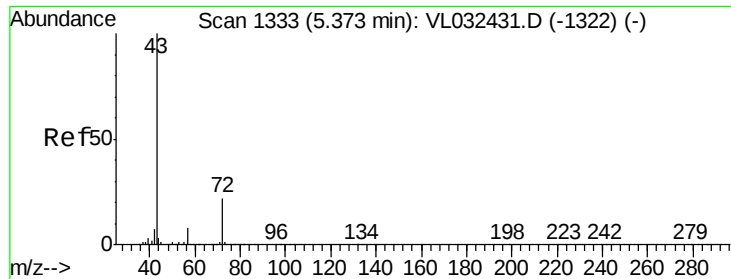
Ion Ratio Lower Upper

114 100

63 27.1 22.2 33.4

88 18.8 15.0 22.4

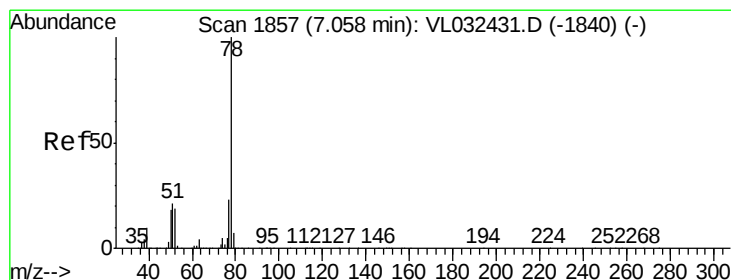
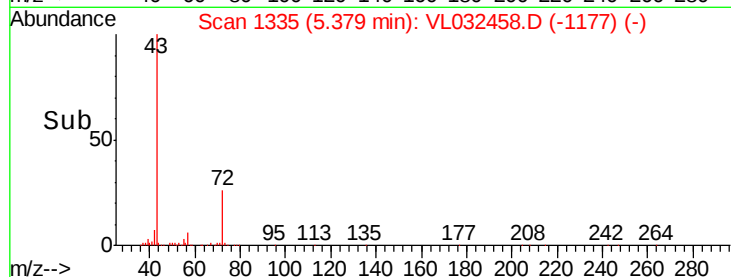
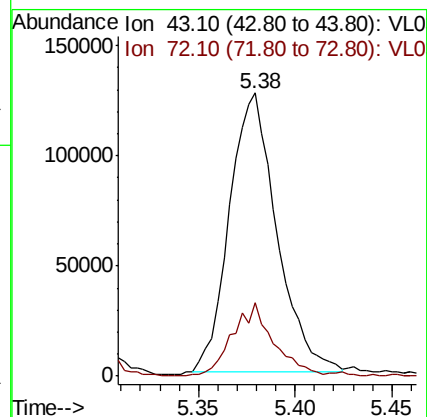
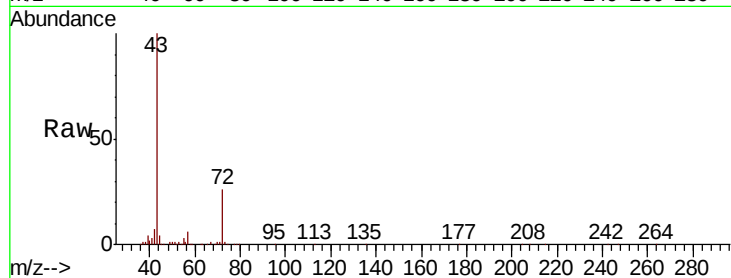




#34
 2-Butanone
 Concen: 0.946 ppbv
 RT: 5.38 min Scan# 1335
 Delta R.T. 0.01 min
 Lab File: VL032458.D
 Acq: 5 Sep 2018 15:21

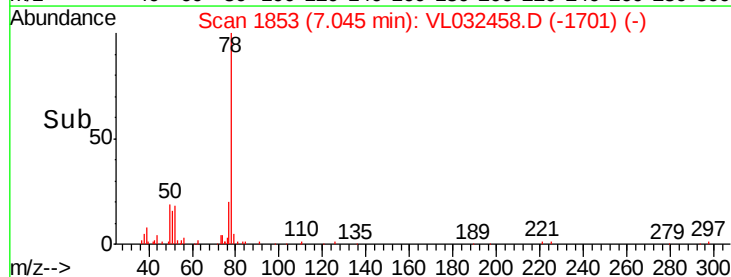
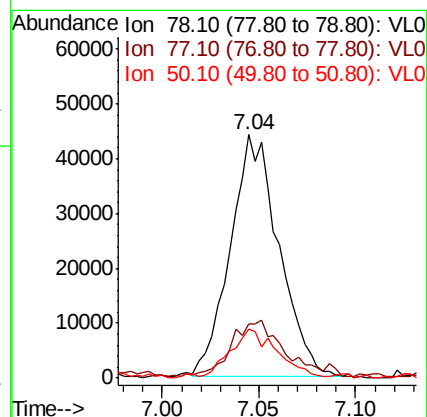
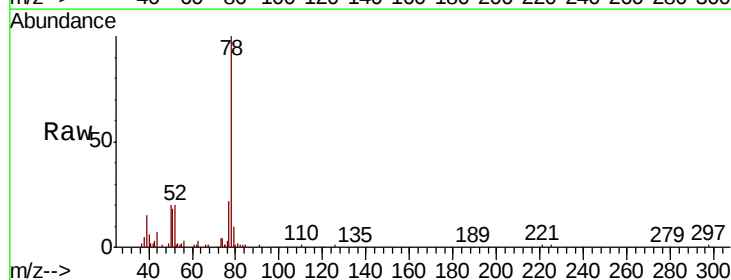
Instrument :
 MSVOA_L
 ClientSampled :
 VP-04DL

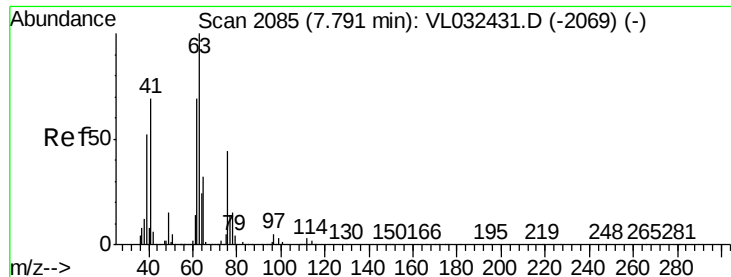
Tgt Ion: 43 Resp: 216460
 Ion Ratio Lower Upper
 43 100
 72 23.5 17.8 26.6



#36
 Benzene
 Concen: 0.264 ppbv
 RT: 7.04 min Scan# 1853
 Delta R.T. -0.01 min
 Lab File: VL032458.D
 Acq: 5 Sep 2018 15:21

Tgt Ion: 78 Resp: 77320
 Ion Ratio Lower Upper
 78 100
 77 21.0 18.4 27.6
 50 18.6 14.4 21.6

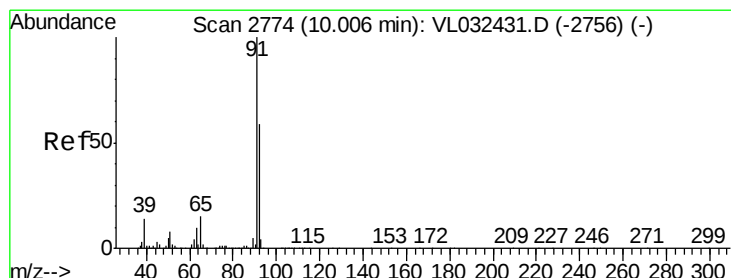
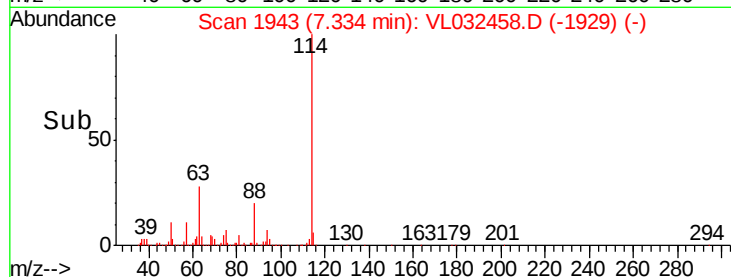
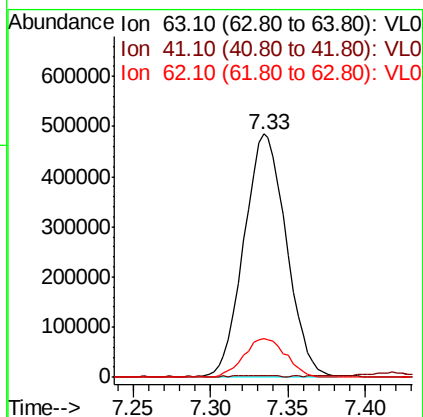
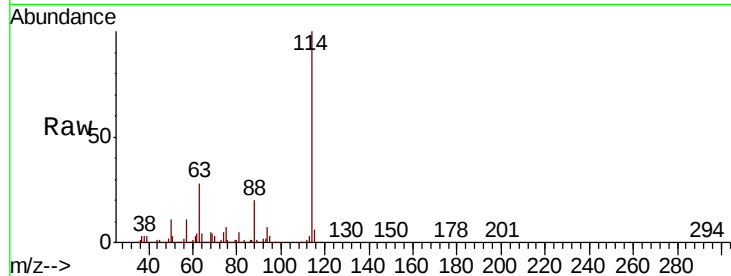




#39
 1,2-Dichloropropane
 Concen: 7.379 ppbv
 RT: 7.33 min Scan# 1943
 Delta R.T. -0.46 min
 Lab File: VL032458.D
 Acq: 5 Sep 2018 15:21

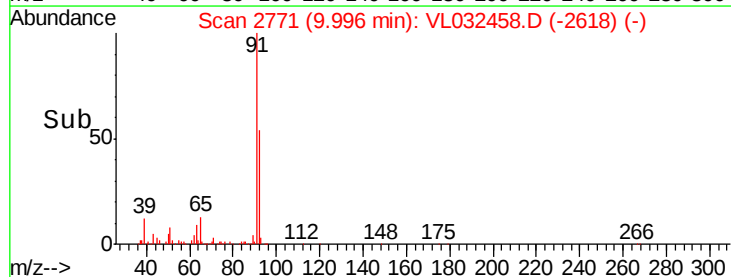
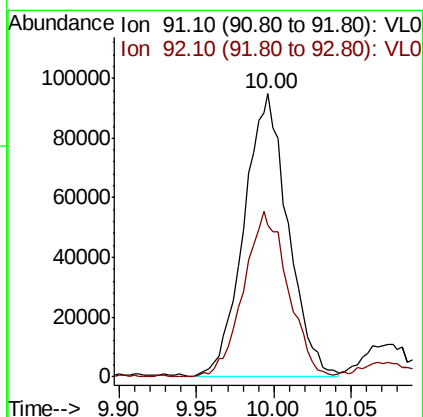
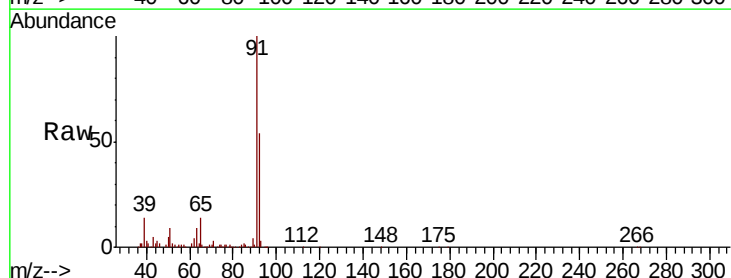
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-04DL

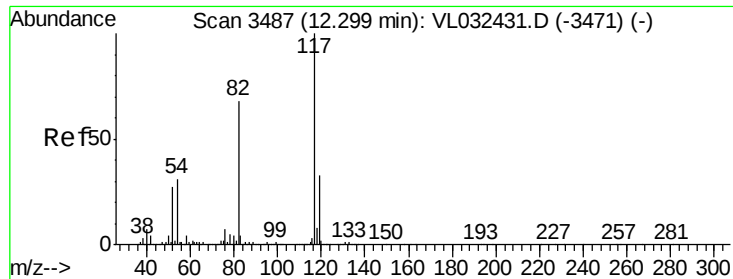
Tgt Ion: 63 Resp: 925216
 Ion Ratio Lower Upper
 63 100
 41 0.3 55.4 83.0#
 62 16.2 55.4 83.0#



#53
 Toluene
 Concen: 0.610 ppbv
 RT: 10.00 min Scan# 2771
 Delta R.T. -0.01 min
 Lab File: VL032458.D
 Acq: 5 Sep 2018 15:21

Tgt Ion: 91 Resp: 186939
 Ion Ratio Lower Upper
 91 100
 92 58.8 48.1 72.1

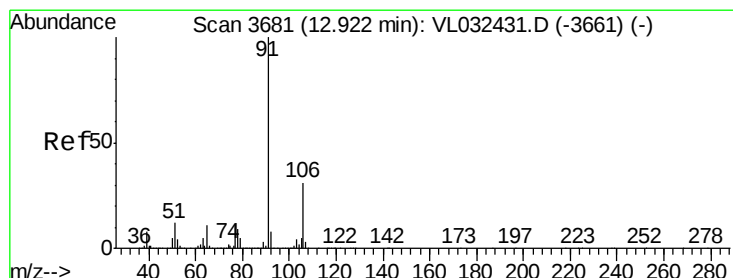
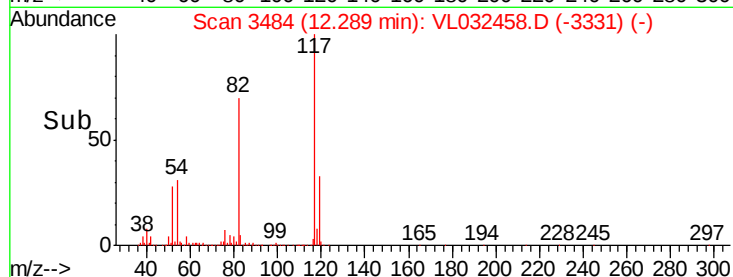
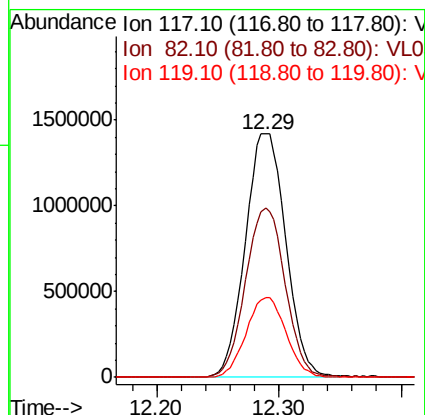
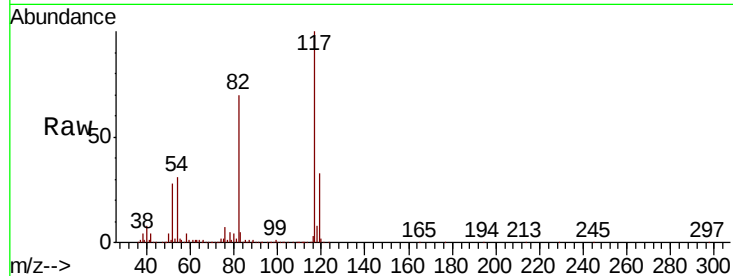




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.29 min Scan# 3484
Delta R.T. -0.01 min
Lab File: VL032458.D
Acq: 5 Sep 2018 15:21

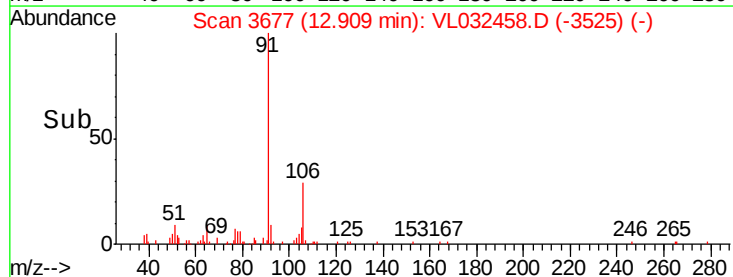
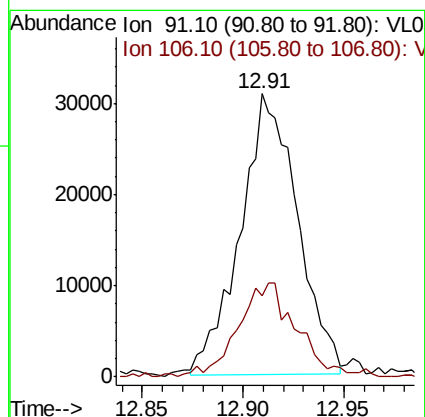
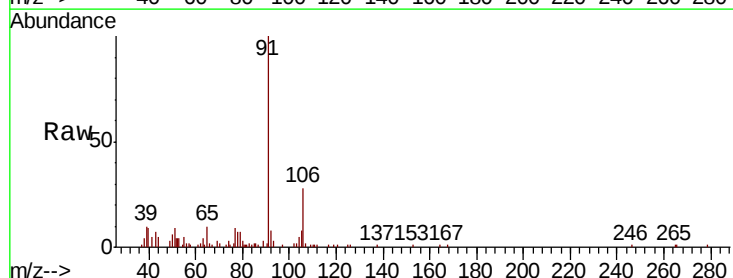
Instrument :
MSVOA_L
ClientSampleId :
VP-04DL

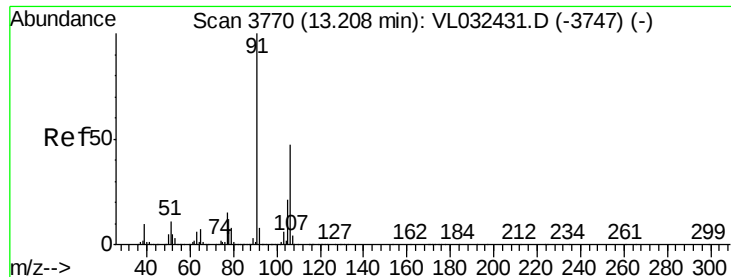
Tgt Ion: 117 Resp: 3258940
Ion Ratio Lower Upper
117 100
82 68.3 53.0 79.6
119 32.6 45.9 68.9#



#58
Ethyl Benzene
Concen: 0.156 ppbv
RT: 12.91 min Scan# 3677
Delta R.T. -0.01 min
Lab File: VL032458.D
Acq: 5 Sep 2018 15:21

Tgt Ion: 91 Resp: 61008
Ion Ratio Lower Upper
91 100
106 27.5 24.8 37.2

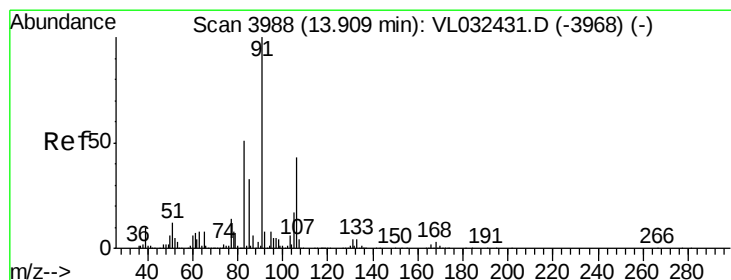
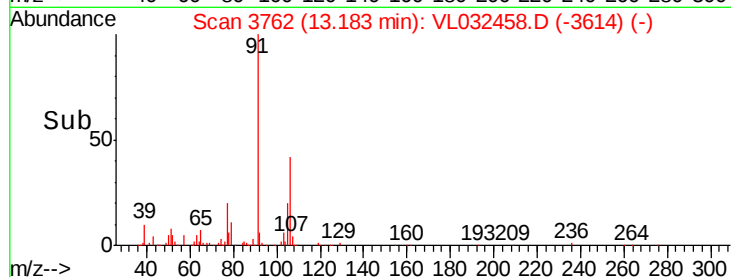
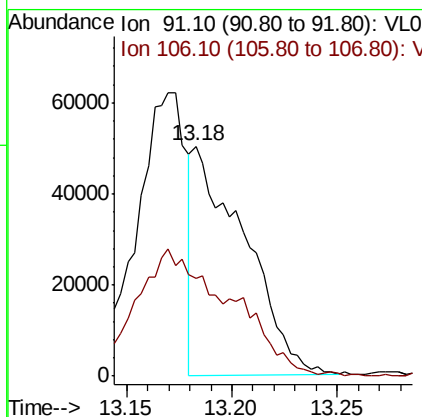
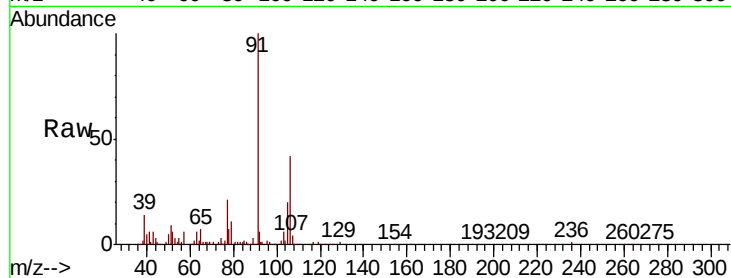




#59
m/p-Xylene
Concen: 0.244 ppbv
RT: 13.18 min Scan# 3762
Delta R.T. -0.03 min
Lab File: VL032458.D
Acq: 5 Sep 2018 15:21

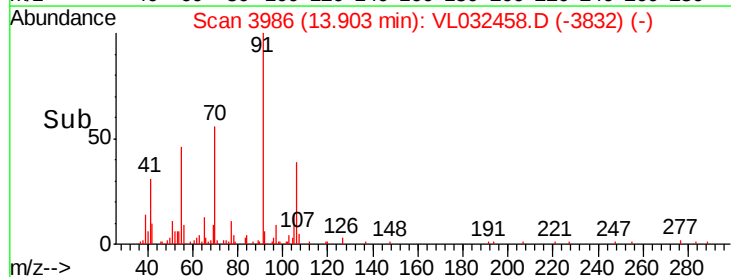
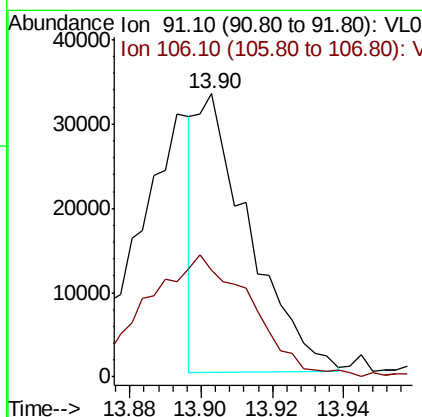
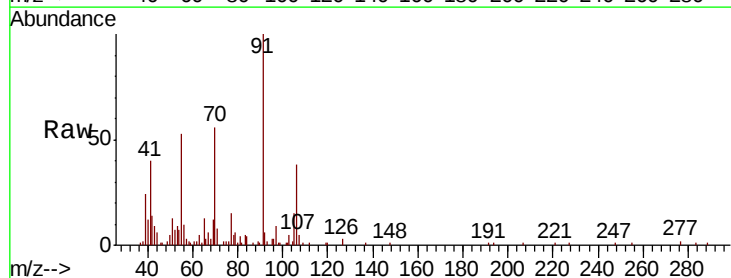
Instrument :
MSVOA_L
ClientSampleID :
VP-04DL

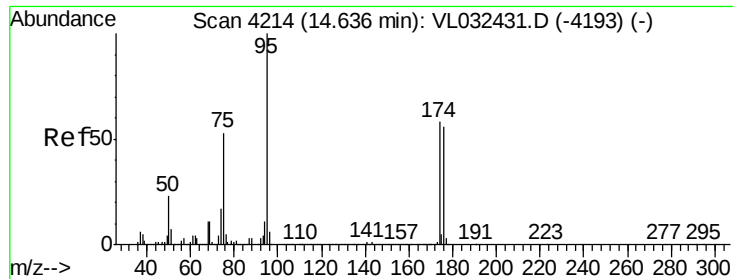
Tgt Ion: 91 Resp: 85003
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#



#60
o-Xylene
Concen: 0.099 ppbv
RT: 13.90 min Scan# 3986
Delta R.T. -0.01 min
Lab File: VL032458.D
Acq: 5 Sep 2018 15:21

Tgt Ion: 91 Resp: 33750
Ion Ratio Lower Upper
91 100
106 92.5 21.9 65.7#

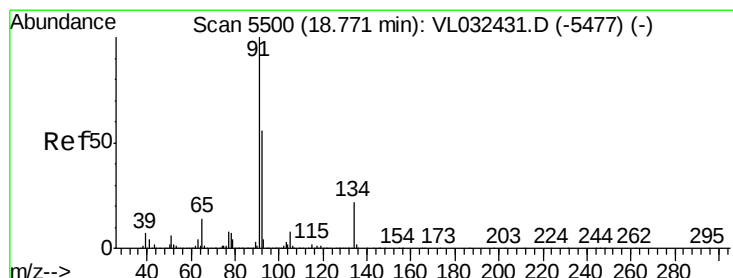
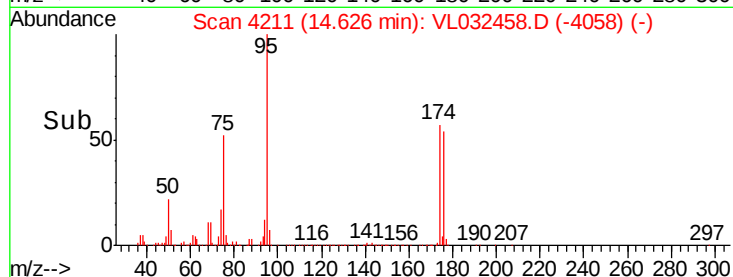
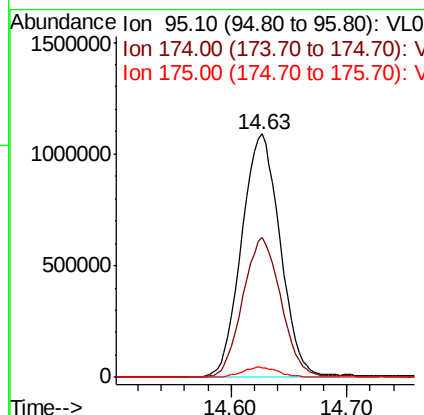
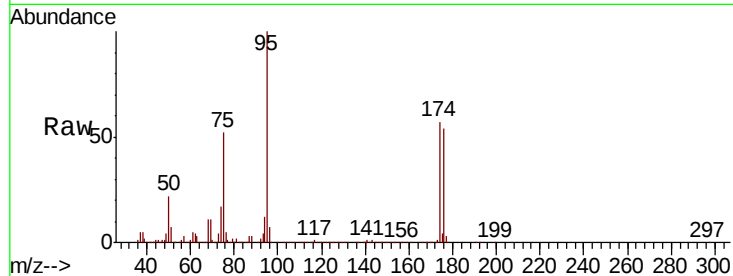




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.429 ppbv
 RT: 14.63 min Scan# 4211
 Delta R.T. -0.01 min
 Lab File: VL032458.D
 Acq: 5 Sep 2018 15:21

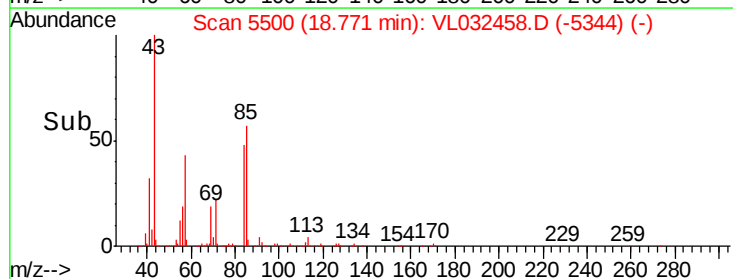
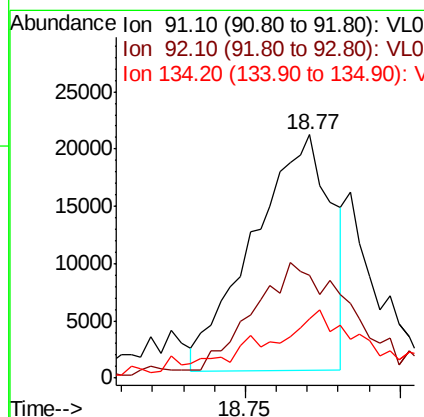
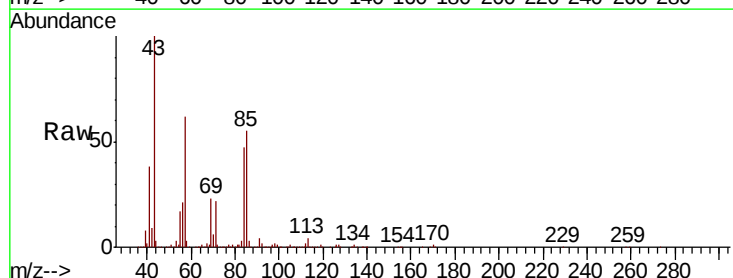
Instrument :
 MSVOA_L
 ClientSampleID :
 VP-04DL

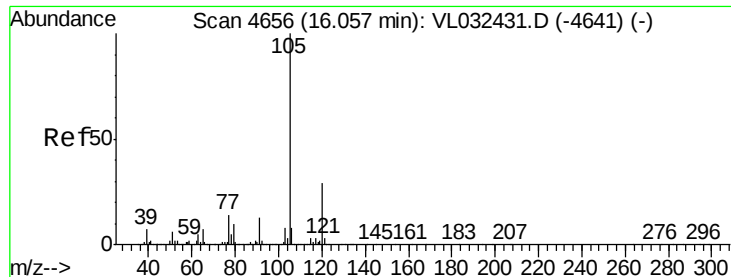
Tgt Ion: 95 Resp: 2523322
 Ion Ratio Lower Upper
 95 100
 174 57.8 46.3 69.5
 175 4.1 3.4 5.0



#70
 n-Butylbenzene
 Concen: 0.066 ppbv
 RT: 18.77 min Scan# 5500
 Delta R.T. 0.00 min
 Lab File: VL032458.D
 Acq: 5 Sep 2018 15:21

Tgt Ion: 91 Resp: 36205
 Ion Ratio Lower Upper
 91 100
 92 71.3 43.8 65.8#
 134 44.2 17.4 26.0#





#72

4-Ethyltoluene

Concen: 0.053 ppbv

RT: 16.04 min Scan# 4652

Delta R.T. -0.01 min

Lab File: VL032458.D

Acq: 5 Sep 2018 15:21

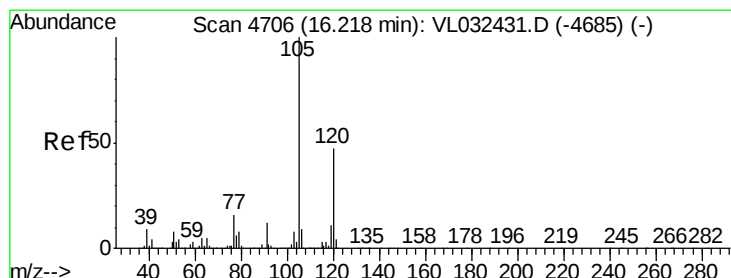
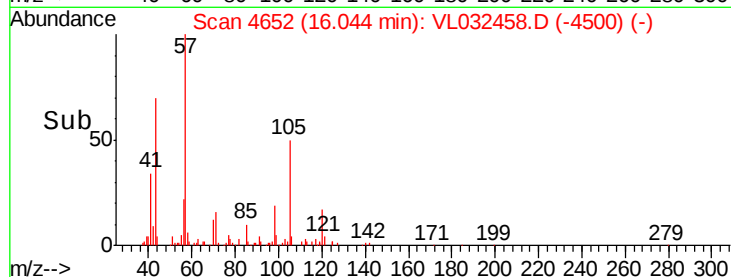
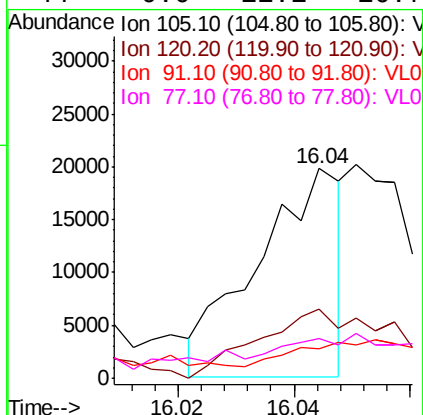
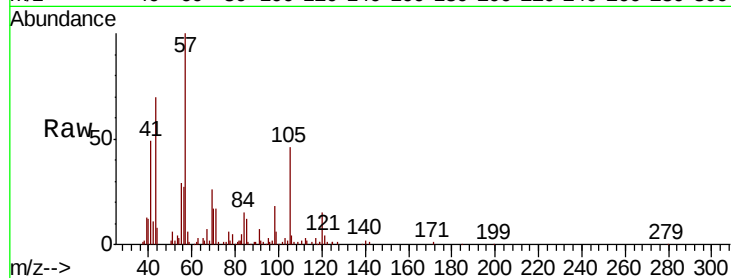
Instrument :

MSVOA_L

ClientSampleId :

VP-04DL

Tgt Ion:	105	Resp:	19907
Ion Ratio	Lower	Upper	
105	100		
120	64.7	23.5	35.3#
91	0.0	10.2	15.2#
77	0.0	11.1	16.7#



#73

1,3,5-Trimethylbenzene

Concen: 0.039 ppbv

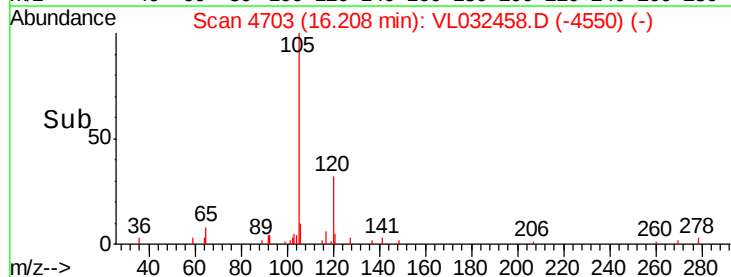
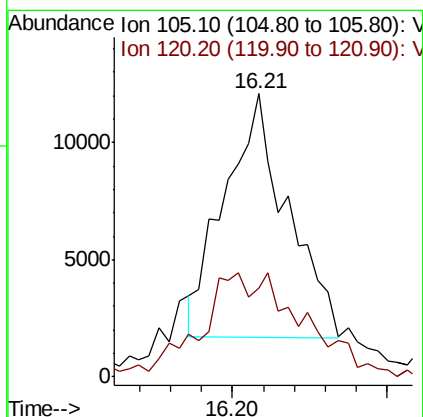
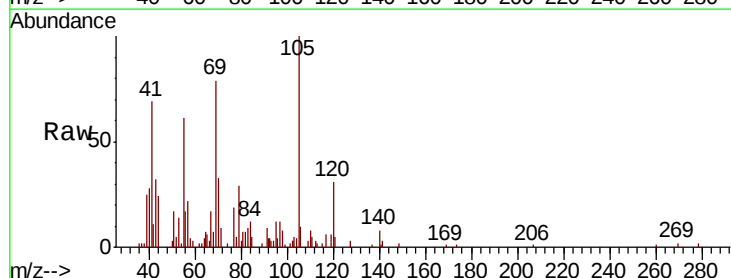
RT: 16.21 min Scan# 4703

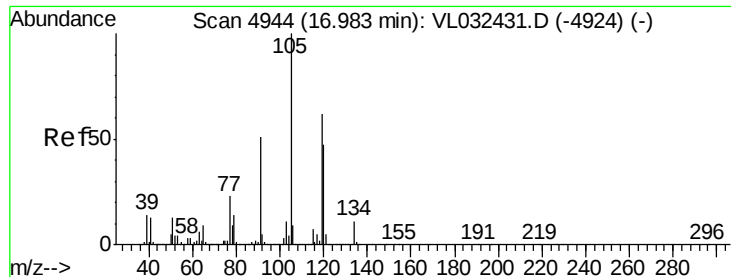
Delta R.T. -0.01 min

Lab File: VL032458.D

Acq: 5 Sep 2018 15:21

Tgt Ion:	105	Resp:	14636
Ion Ratio	Lower	Upper	
105	100		
120	22.3	37.9	56.9#





#74

1,2,4-Trimethylbenzene

Concen: 0.240 ppbv

RT: 16.97 min Scan# 4941

Delta R.T. -0.01 min

Lab File: VL032458.D

Acq: 5 Sep 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VP-04DL

Tgt Ion:105 Resp: 97955

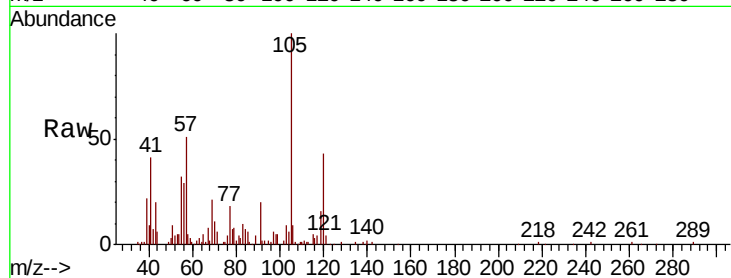
Ion Ratio Lower Upper

105 100

120 47.0 37.8 56.8

91 18.2 41.4 62.0#

77 14.6 18.6 28.0#

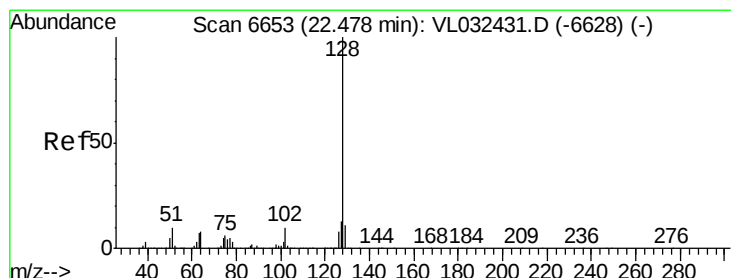
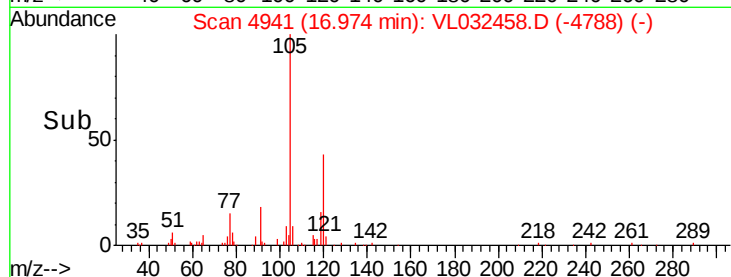
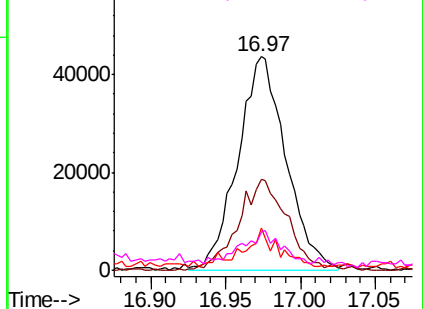


Abundance Ion 105.10 (104.80 to 105.80): V

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



#79

Naphthalene

Concen: 0.031 ppbv

RT: 22.47 min Scan# 6651

Delta R.T. -0.01 min

Lab File: VL032458.D

Acq: 5 Sep 2018 15:21

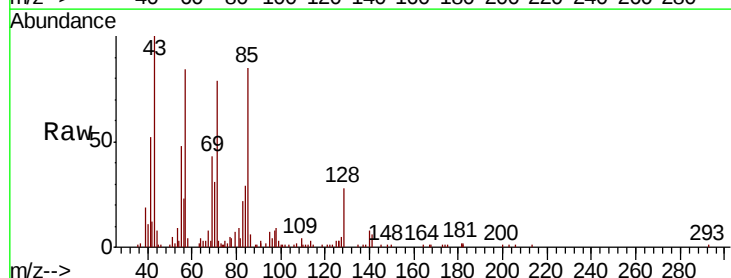
Tgt Ion:128 Resp: 10161

Ion Ratio Lower Upper

128 100

127 18.6 10.2 15.2#

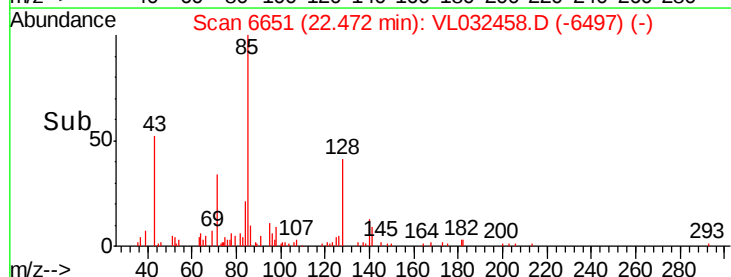
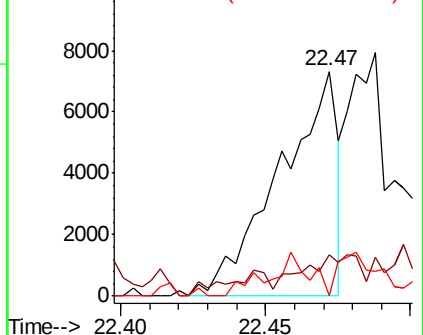
129 0.0 8.5 12.7#

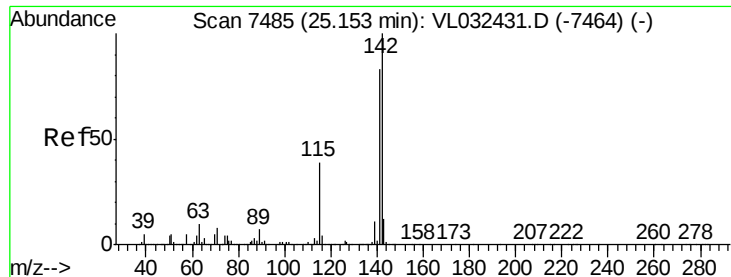


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.037 ppbv

RT: 25.16 min Scan# 7487

Delta R.T. 0.01 min

Lab File: VL032458.D

Acq: 5 Sep 2018 15:21

Instrument :

MSVOA_L

ClientSampleId :

VP-04DL

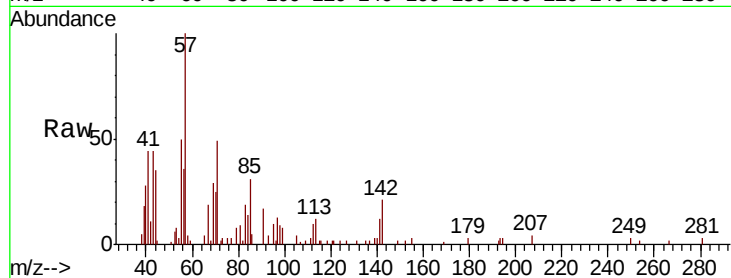
Tgt Ion:142 Resp: 3252

Ion Ratio Lower Upper

142 100

141 87.8 67.0 100.6

115 64.1 31.3 46.9#



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

