

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL091018\
 Data File : VL032497.D
 Acq On : 11 Sep 2018 3:19
 Operator : SY/AP
 Sample : 4820-06DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 253-BERRYDL

Quant Time: Sep 11 05:31:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	1382192	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.34	114	3306108	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.28	117	3311802	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.62	95	2583098	10.51	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.10%

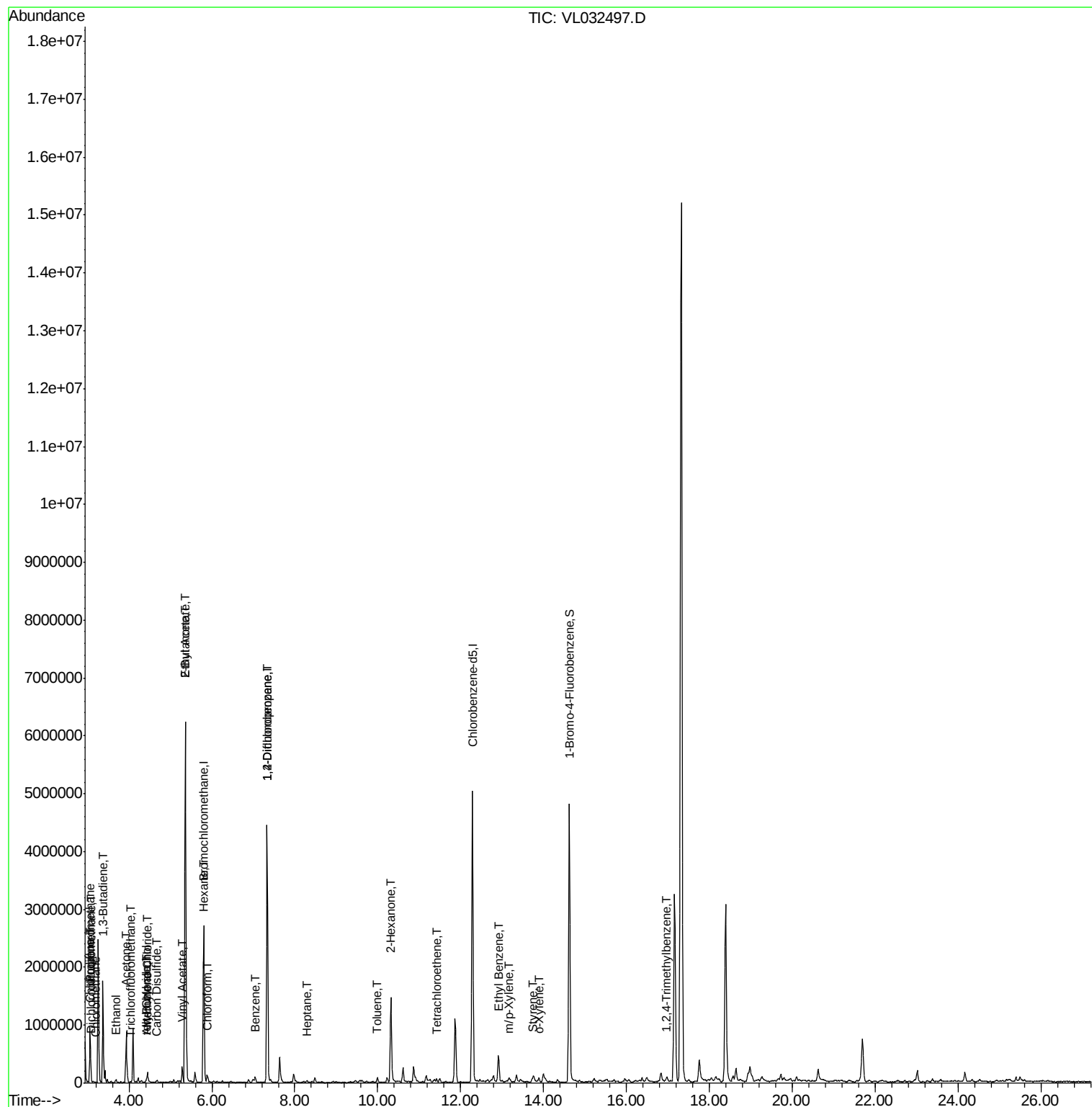
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.10	85	10842	0.061	ppbv	98
3) Chlorodifluoromethane	3.04	51	9562	0.076	ppbv #	87
4) Chloromethane	3.20	50	8212	0.108	ppbv	95
9) Propene	3.06	41	401903	7.963	ppbv	96
10) Heptane	8.29	43	11183	0.062	ppbv #	70
11) Trichlorofluoromethane	4.03	101	5578	0.035	ppbv	96
13) Ethanol	3.69	45	57916	3.681	ppbv	98
15) Acetone	3.93	43	849315	6.823	ppbv #	69
16) 1,3-Butadiene	3.37	39	426260	7.278	ppbv #	9
17) tert-Butyl alcohol	4.41	59	13366	0.698	ppbv #	100
20) Methylene Chloride	4.44	84	54917	1.157	ppbv	99
21) Allyl Chloride	4.41	41	5727	0.069	ppbv #	64
23) Vinyl Acetate	5.29	43	87627	0.425	ppbv #	7
25) Ethyl Acetate	5.36	43	7690265	26.163	ppbv #	76
26) Hexane	5.82	57	64990	0.494	ppbv #	9
27) Carbon Disulfide	4.65	76	15250	0.126	ppbv #	51
29) Chloroform	5.89	83	76357	0.381	ppbv	92
34) 2-Butanone	5.36	43	7690265	35.019	ppbv	98
36) Benzene	7.05	78	75667	0.269	ppbv #	91
39) 1,2-Dichloropropane	7.34	63	866050	7.194	ppbv #	25
51) 2-Hexanone	10.32	43	1362164	6.393	ppbv #	100
52) Tetrachloroethene	11.42	164	8060	0.092	ppbv #	17
53) Toluene	9.99	91	39256	0.133	ppbv #	56
58) Ethyl Benzene	12.91	91	16330	0.041	ppbv	93
59) m/p-Xylene	13.16	91	55122	0.156	ppbv	95
60) o-Xylene	13.89	91	13019	0.038	ppbv #	6
61) Styrene	13.73	104	24354	0.108	ppbv	94
74) 1,2,4-Trimethylbenzene	16.97	105	19233	0.046	ppbv #	72

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

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QLast Update : Fri Aug 31 21:33:46 2018
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.80 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL032497.D

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ClientSampleId :

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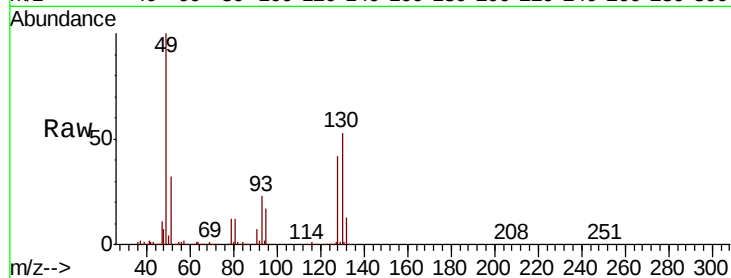
Tgt Ion: 49 Resp: 1382192

Ion Ratio Lower Upper

49 100

128 42.7 20.7 62.1

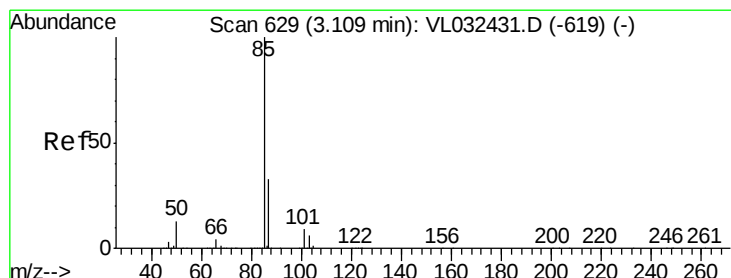
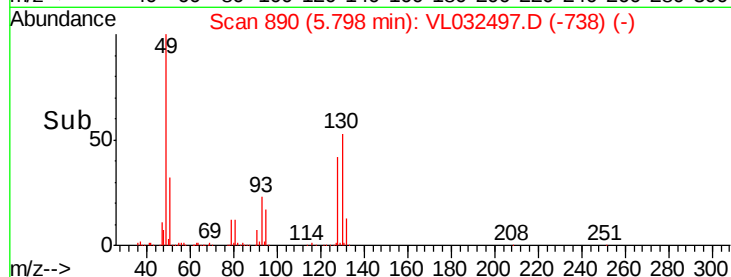
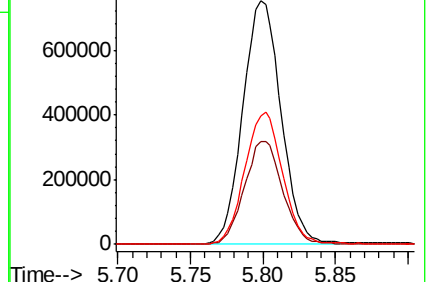
130 54.2 26.6 79.7



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: 0.061 ppbv

RT: 3.10 min Scan# 50

Delta R.T. -0.01 min

Lab File: VL032497.D

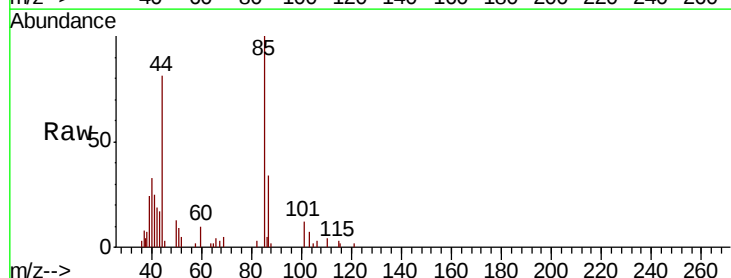
Acq: 11 Sep 2018 3:19

Tgt Ion: 85 Resp: 10842

Ion Ratio Lower Upper

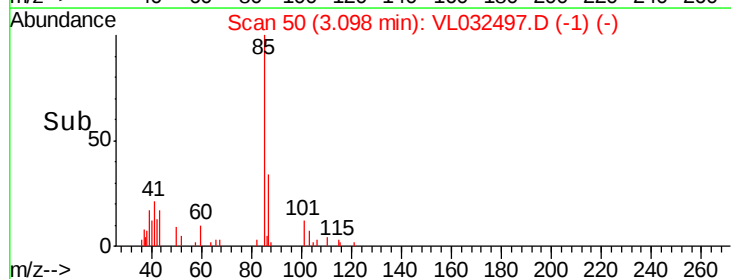
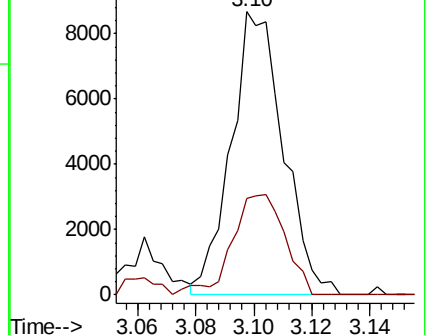
85 100

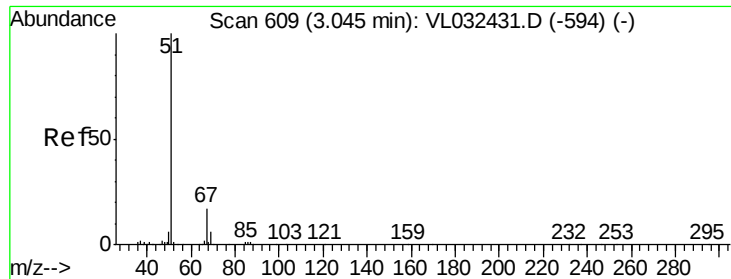
87 34.1 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.076 ppbv

RT: 3.04 min Scan# 33

Delta R.T. -0.00 min

Lab File: VL032497.D

Acq: 11 Sep 2018 3:19

Instrument :

MSVOA_L

ClientSampleId :

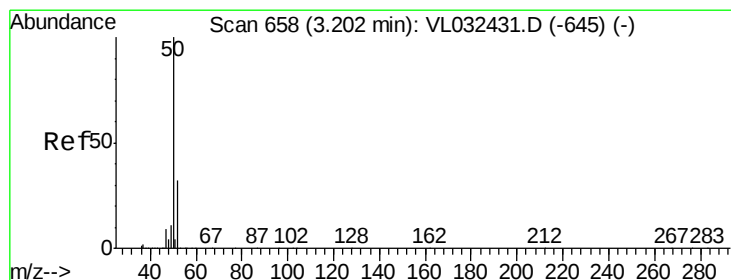
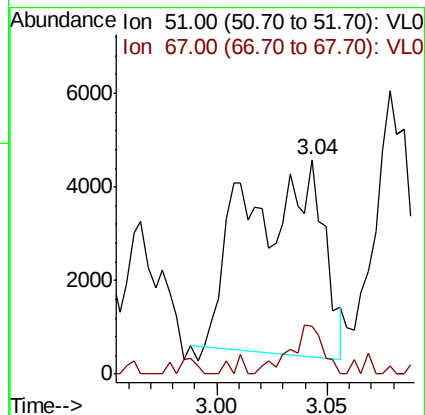
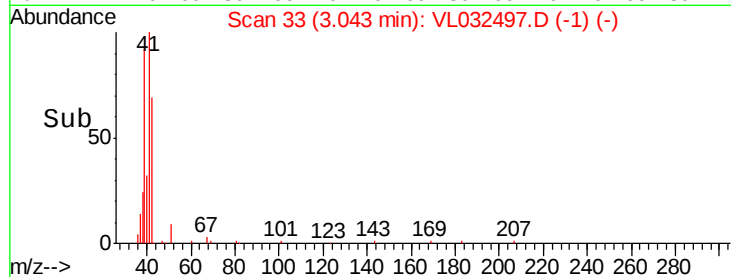
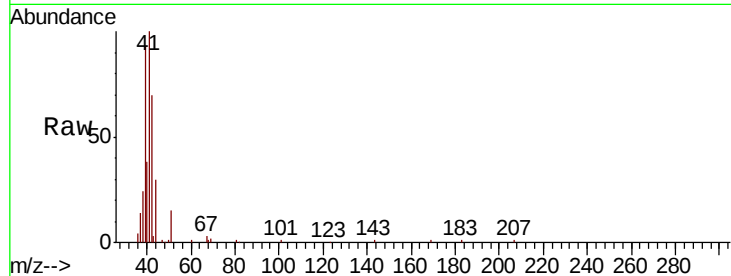
253-BERRYDL

Tgt Ion: 51 Resp: 9562

Ion Ratio Lower Upper

51 100

67 11.7 13.8 20.8#



#4

Chloromethane

Concen: 0.108 ppbv

RT: 3.20 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL032497.D

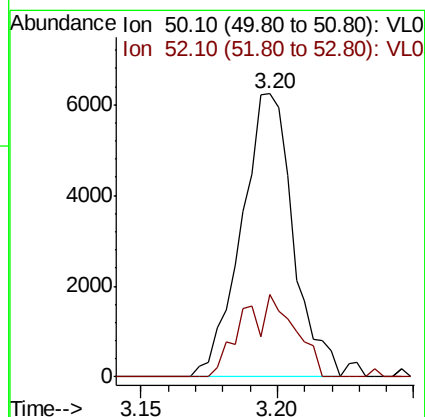
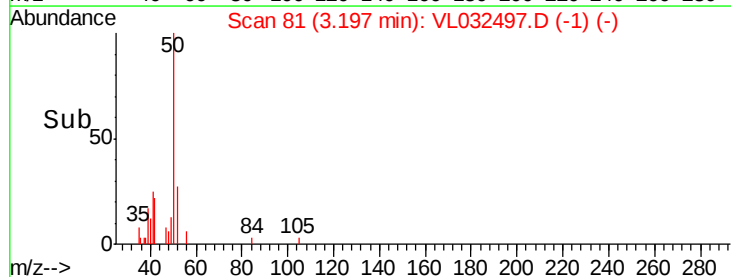
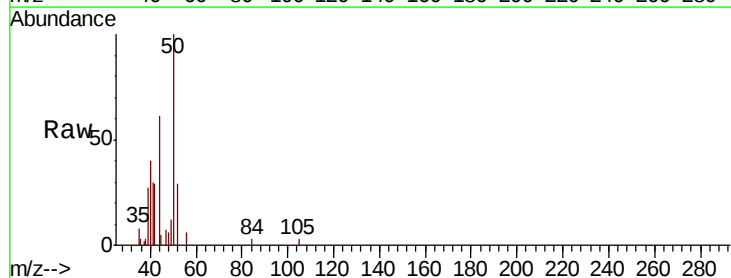
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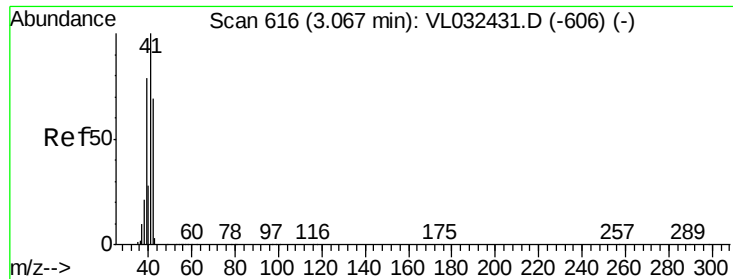
Tgt Ion: 50 Resp: 8212

Ion Ratio Lower Upper

50 100

52 29.2 25.6 38.4





#9

Propene

Concen: 7.963 ppbv

RT: 3.06 min Scan# 39

Delta R.T. -0.01 min

Lab File: VL032497.D

Acq: 11 Sep 2018 3:19

Instrument :

MSVOA_L

ClientSampleId :

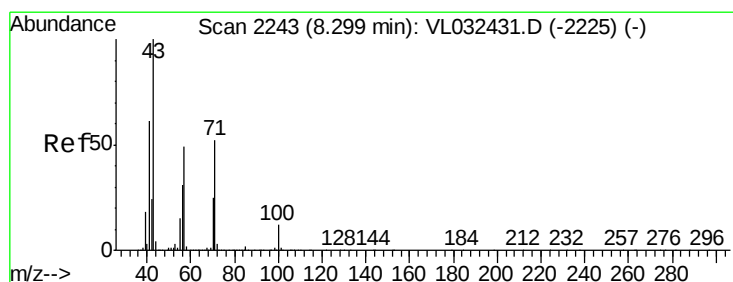
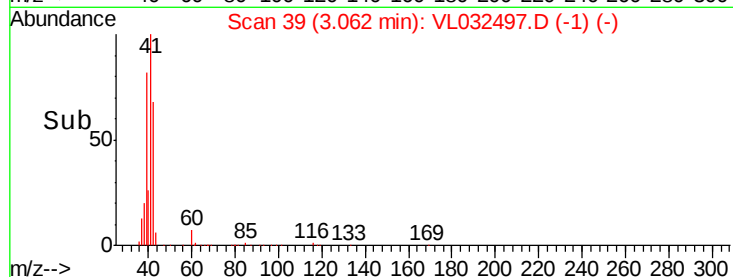
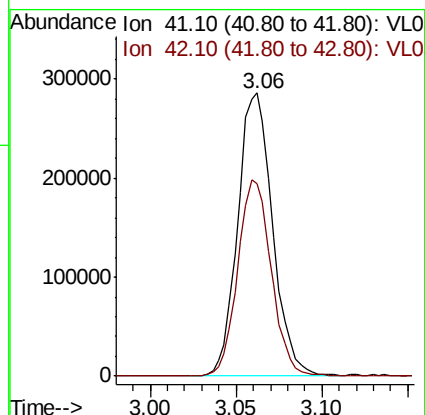
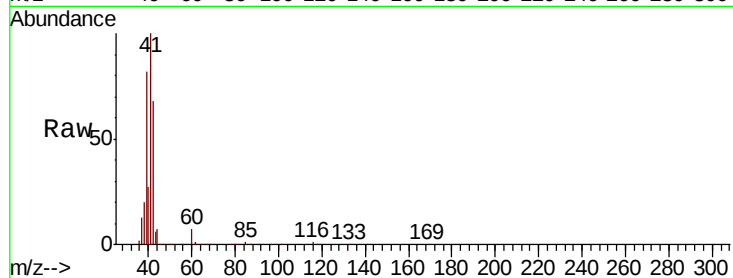
253-BERRYDL

Tgt Ion: 41 Resp: 401903

Ion Ratio Lower Upper

41 100

42 67.2 56.6 84.8



#10

Heptane

Concen: 0.062 ppbv

RT: 8.29 min Scan# 1665

Delta R.T. -0.01 min

Lab File: VL032497.D

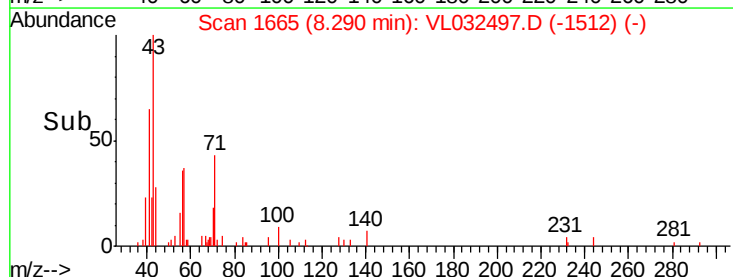
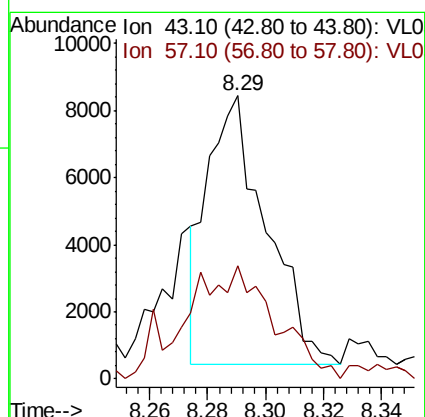
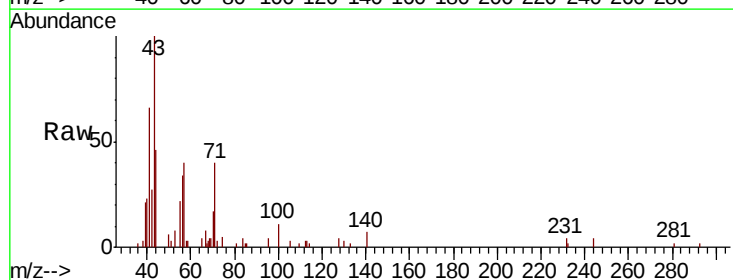
Acq: 11 Sep 2018 3:19

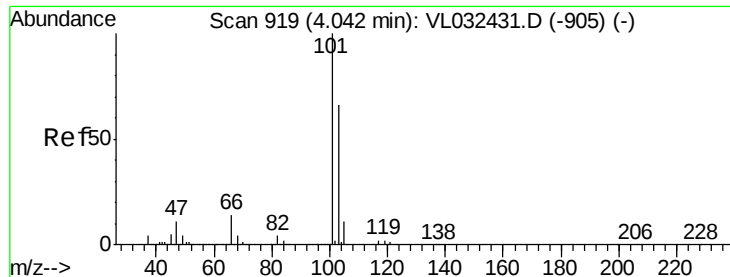
Tgt Ion: 43 Resp: 11183

Ion Ratio Lower Upper

43 100

57 70.1 39.6 59.4#

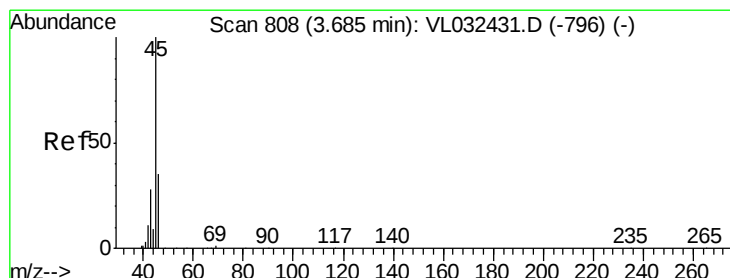
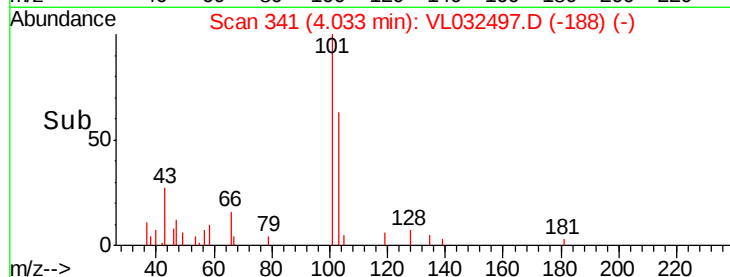
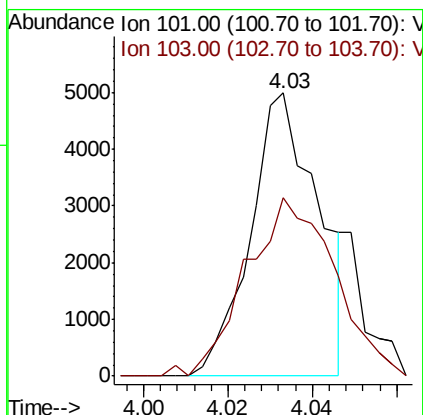
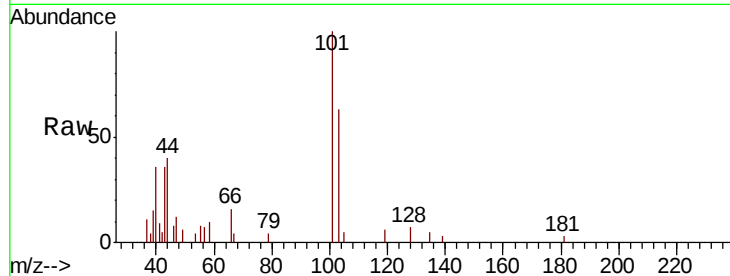




#11
 Trichlorofluoromethane
 Concen: 0.035 ppbv
 RT: 4.03 min Scan# 341
 Delta R.T. -0.01 min
 Lab File: VL032497.D
 Acq: 11 Sep 2018 3:19

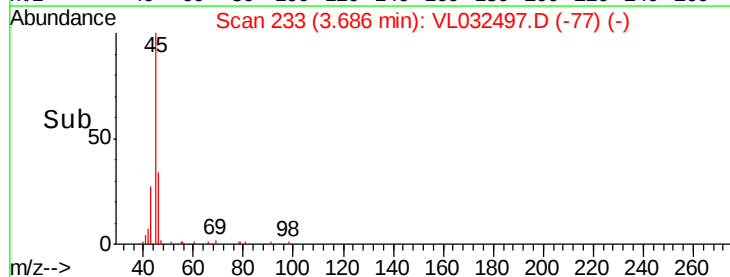
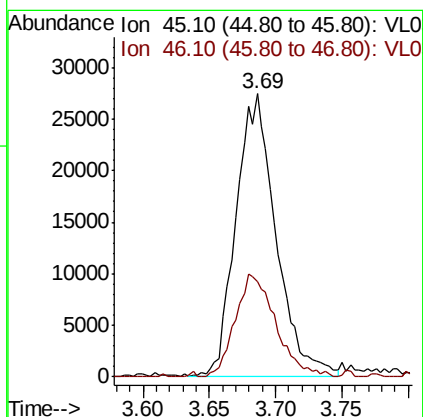
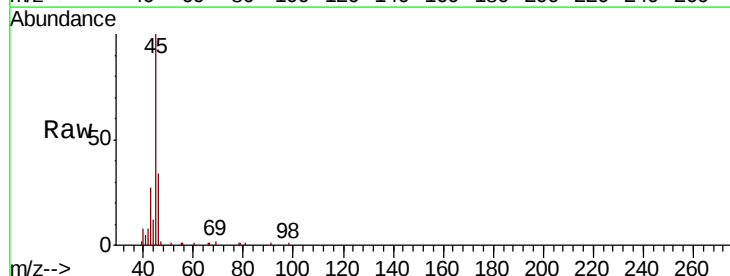
Instrument :
 MSVOA_L
 ClientSampleId :
 253-BERRYDL

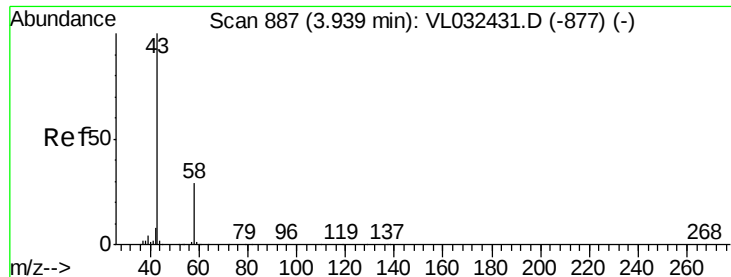
Tgt Ion:101 Resp: 5578
 Ion Ratio Lower Upper
 101 100
 103 63.0 52.8 79.2



#13
 Ethanol
 Concen: 3.681 ppbv
 RT: 3.69 min Scan# 233
 Delta R.T. 0.00 min
 Lab File: VL032497.D
 Acq: 11 Sep 2018 3:19

Tgt Ion: 45 Resp: 57916
 Ion Ratio Lower Upper
 45 100
 46 36.9 14.2 56.8





#15

Acetone

Concen: 6.823 ppbv

RT: 3.93 min Scan# 308

Delta R.T. -0.01 min

Lab File: VL032497.D

Acq: 11 Sep 2018 3:19

Instrument :

MSVOA_L

ClientSampleId :

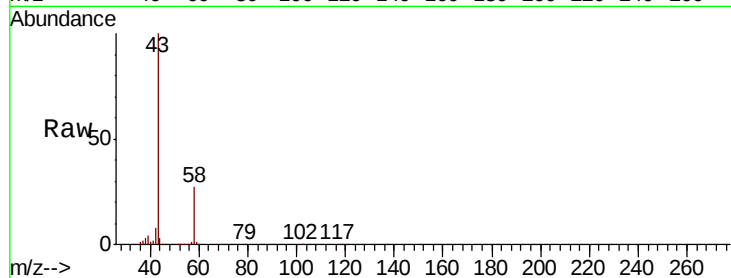
253-BERRYDL

Tgt Ion: 43 Resp: 849315

Ion Ratio Lower Upper

43 100

58 44.4 22.6 33.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.93

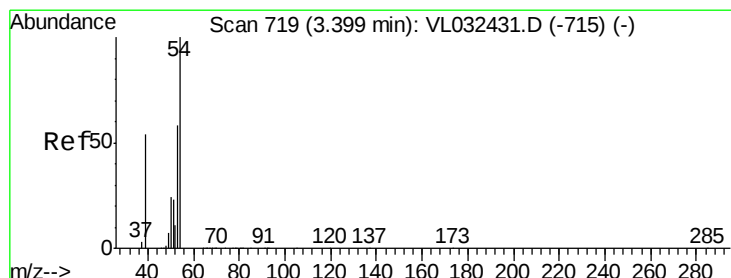
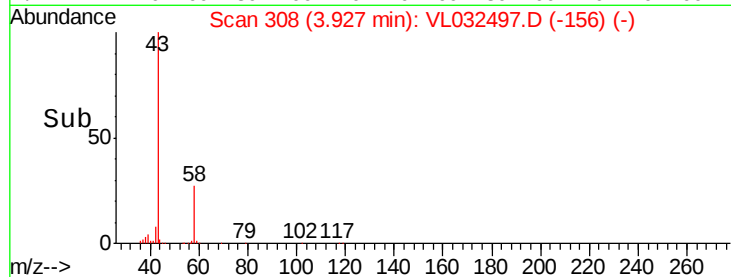
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 7.278 ppbv

RT: 3.37 min Scan# 135

Delta R.T. -0.03 min

Lab File: VL032497.D

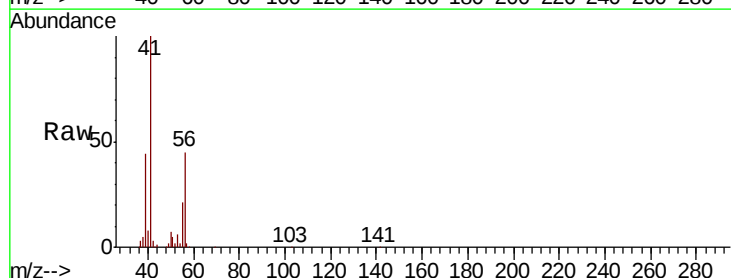
Acq: 11 Sep 2018 3:19

Tgt Ion: 39 Resp: 426260

Ion Ratio Lower Upper

39 100

54 9.9 80.8 121.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.37

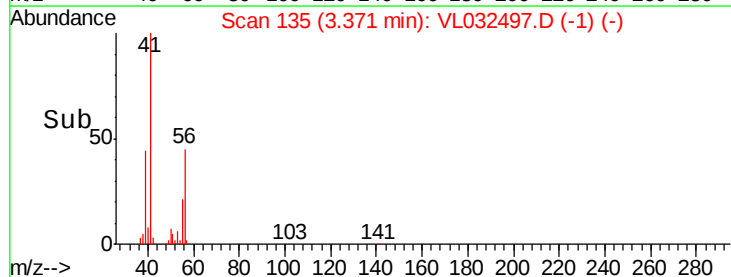
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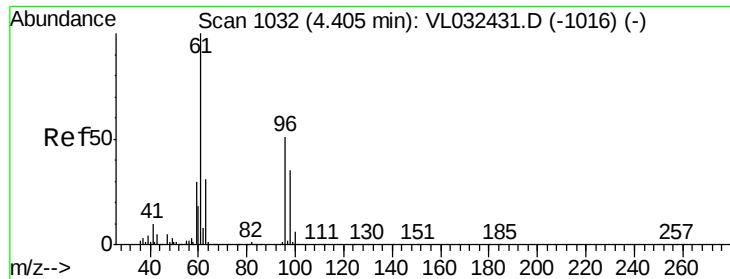
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100000

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Time-->

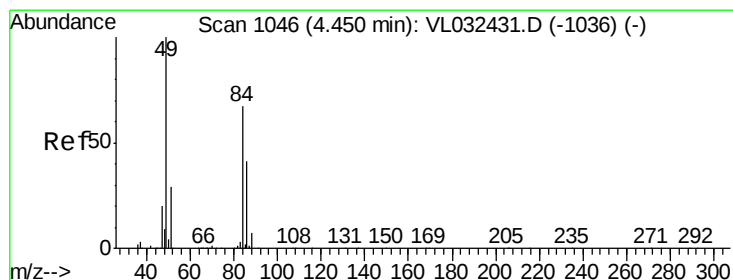
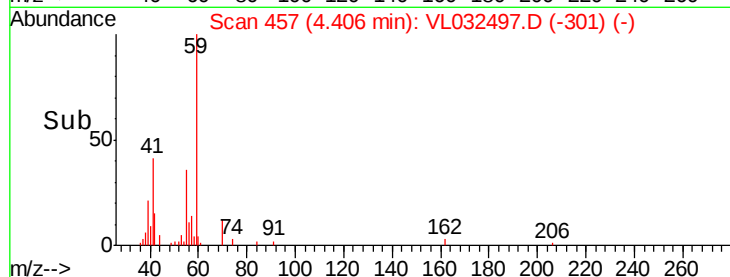
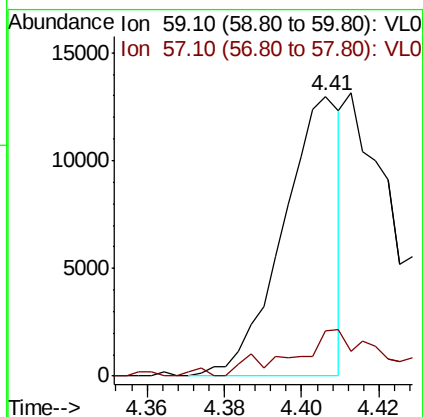
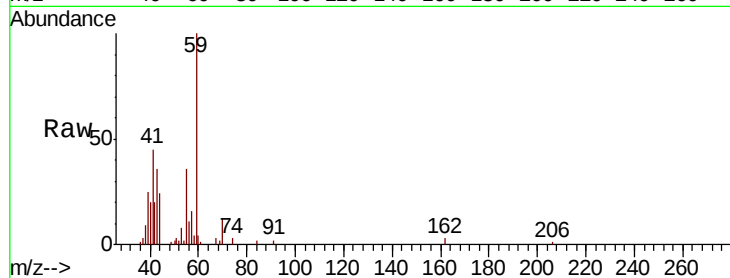




#17
 tert-Butyl alcohol
 Concen: 0.698 ppbv
 RT: 4.41 min Scan# 457
 Delta R.T. 0.00 min
 Lab File: VL032497.D
 Acq: 11 Sep 2018 3:19

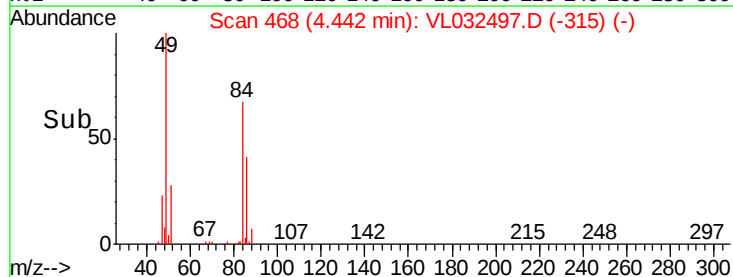
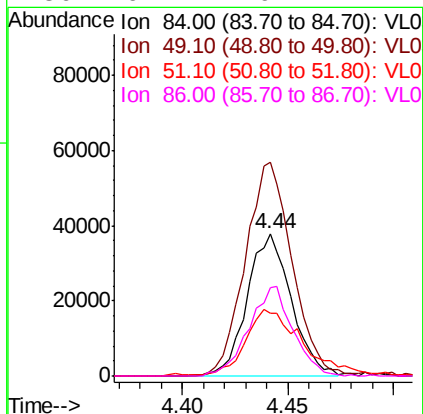
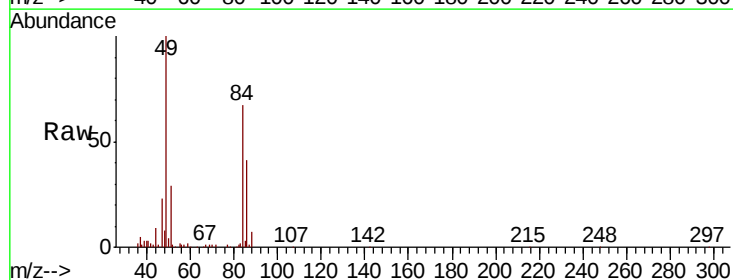
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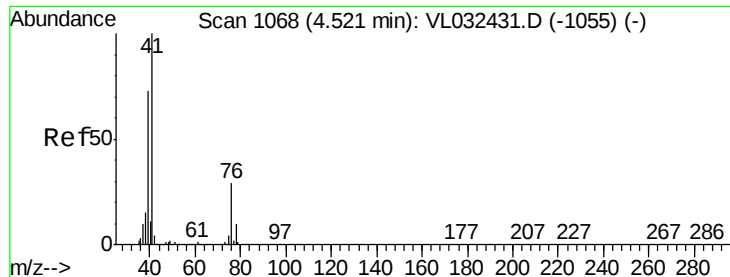
Tgt Ion: 59 Resp: 13366
 Ion Ratio Lower Upper
 59 100
 57 0.0 0.0 0.0



#20
 Methylene Chloride
 Concen: 1.157 ppbv
 RT: 4.44 min Scan# 468
 Delta R.T. -0.01 min
 Lab File: VL032497.D
 Acq: 11 Sep 2018 3:19

Tgt Ion: 84 Resp: 54917
 Ion Ratio Lower Upper
 84 100
 49 150.1 119.1 178.7
 51 42.5 35.2 52.8
 86 61.7 49.4 74.2

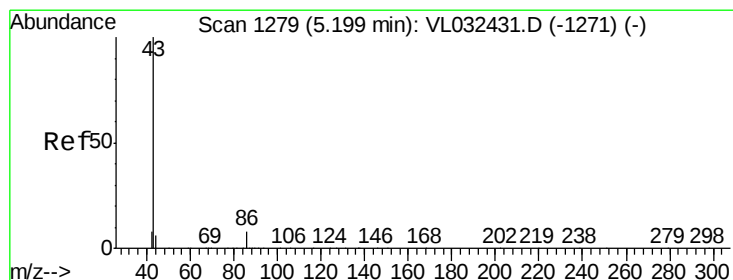
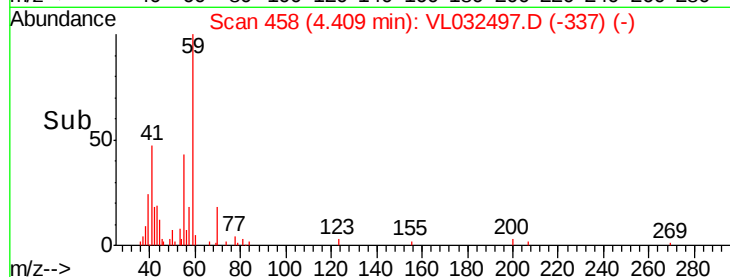
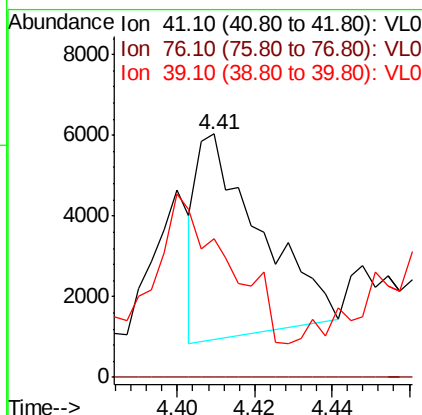
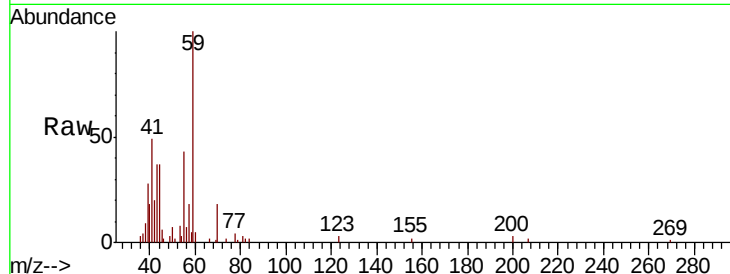




#21
 Allyl Chloride
 Concen: 0.069 ppbv
 RT: 4.41 min Scan# 458
 Delta R.T. -0.11 min
 Lab File: VL032497.D
 Acq: 11 Sep 2018 3:19

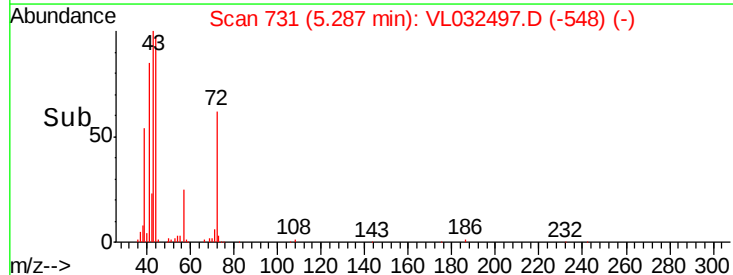
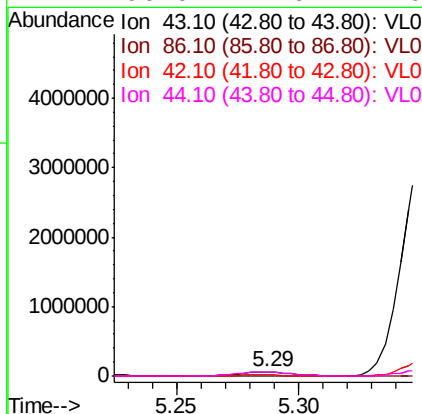
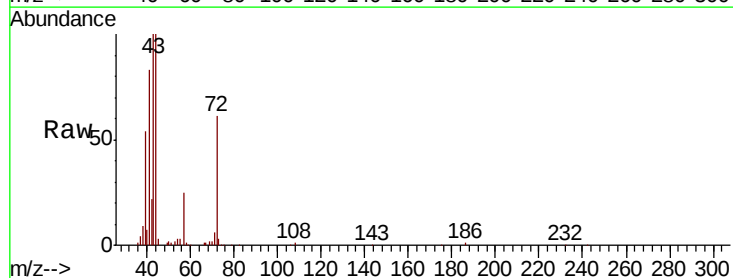
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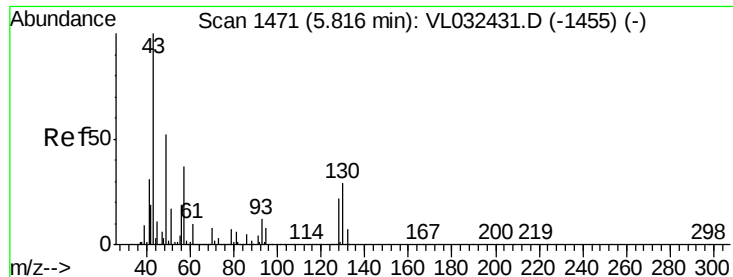
Tgt Ion: 41 Resp: 5727
 Ion Ratio Lower Upper
 41 100
 76 0.0 23.6 35.4#
 39 95.8 57.7 86.5#



#23
 Vinyl Acetate
 Concen: 0.425 ppbv
 RT: 5.29 min Scan# 731
 Delta R.T. 0.09 min
 Lab File: VL032497.D
 Acq: 11 Sep 2018 3:19

Tgt Ion: 43 Resp: 87627
 Ion Ratio Lower Upper
 43 100
 86 0.0 5.9 8.9#
 42 22.1 6.9 10.3#
 44 96.0 4.6 7.0#



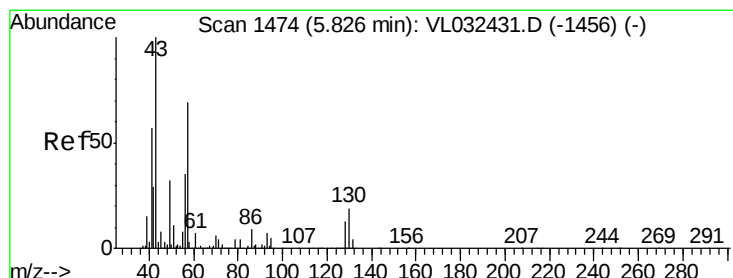
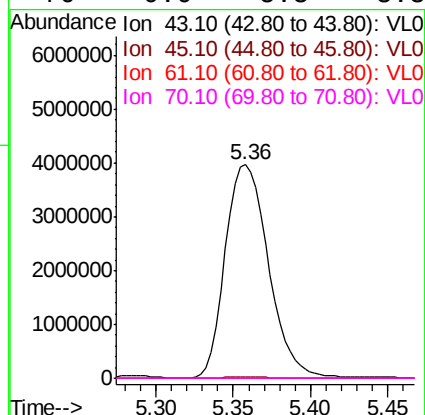
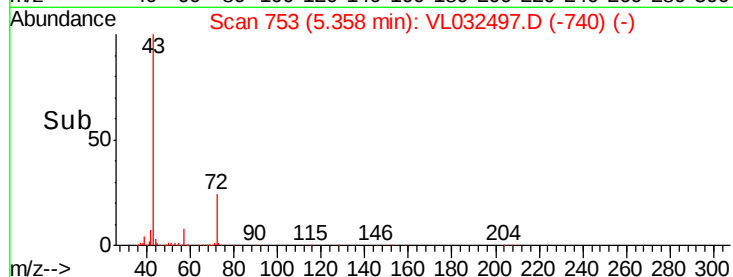
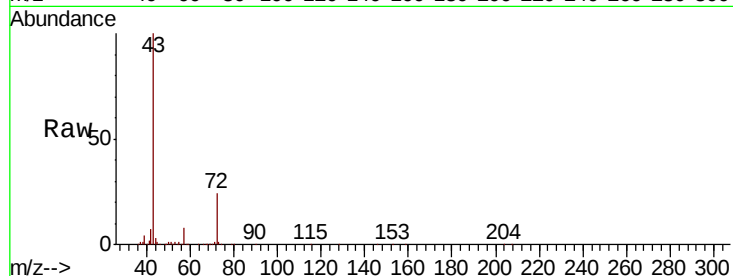


#25
Ethyl Acetate
Concen: 26.163 ppbv
RT: 5.36 min Scan# 753
Delta R.T. -0.46 min
Lab File: VL032497.D
Acq: 11 Sep 2018 3:19

Instrument :
MSVOA_L
ClientSampleId :
253-BERRYDL

Tgt Ion: 43 Resp: 7690265

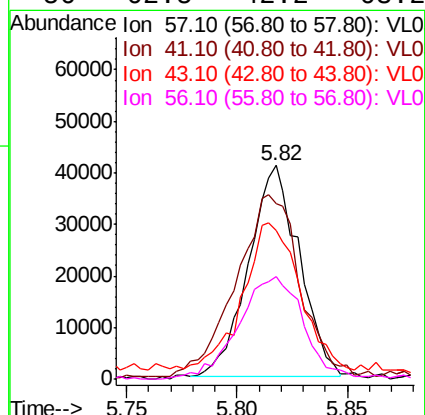
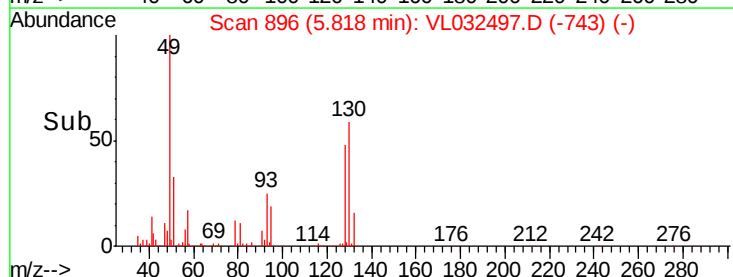
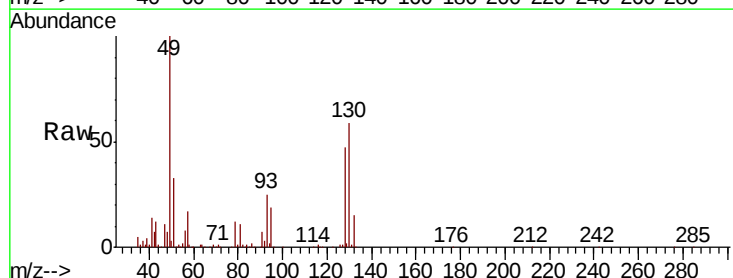
Ion	Ratio	Lower	Upper
43	100		
45	0.7	8.0	12.0#
61	0.0	7.6	11.4#
70	0.0	5.8	8.8#

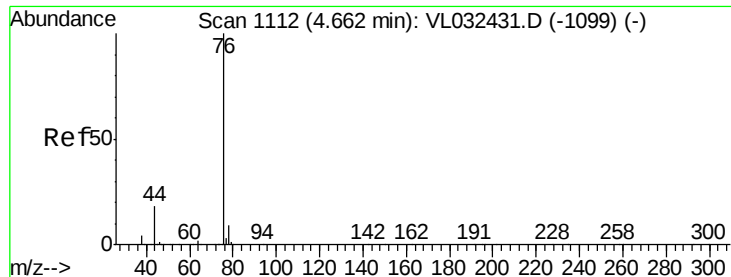


#26
Hexane
Concen: 0.494 ppbv
RT: 5.82 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL032497.D
Acq: 11 Sep 2018 3:19

Tgt Ion: 57 Resp: 64990

Ion	Ratio	Lower	Upper
57	100		
41	108.9	69.0	103.4#
43	0.0	172.1	258.1#
56	62.5	42.2	63.2





#27

Carbon Disulfide

Concen: 0.126 ppbv

RT: 4.65 min Scan# 534

Delta R.T. -0.01 min

Lab File: VL032497.D

Acq: 11 Sep 2018 3:19

Instrument :

MSVOA_L

ClientSampleId :

253-BERRYDL

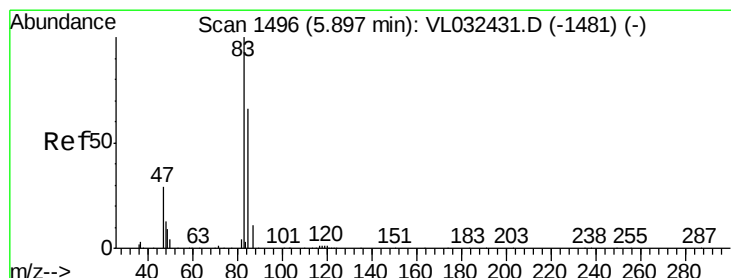
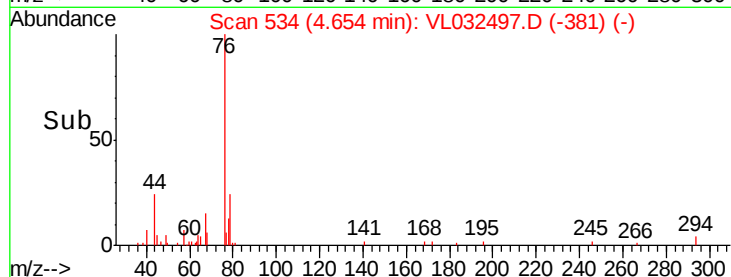
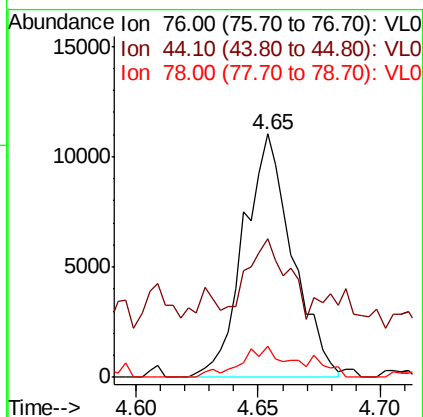
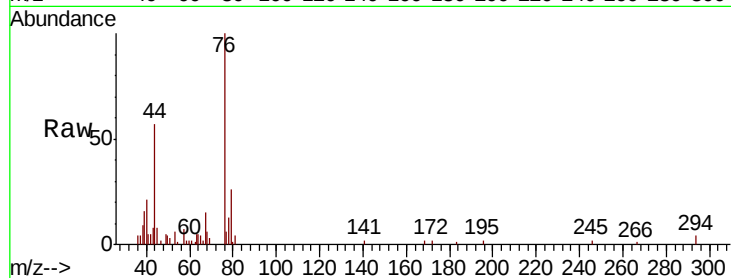
Tgt Ion: 76 Resp: 15250

Ion Ratio Lower Upper

76 100

44 47.1 14.0 21.0#

78 15.2 7.5 11.3#



#29

Chloroform

Concen: 0.381 ppbv

RT: 5.89 min Scan# 917

Delta R.T. -0.01 min

Lab File: VL032497.D

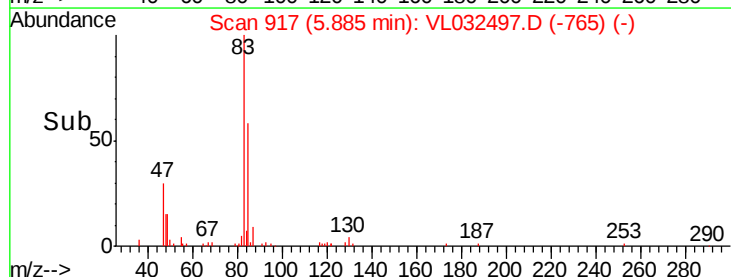
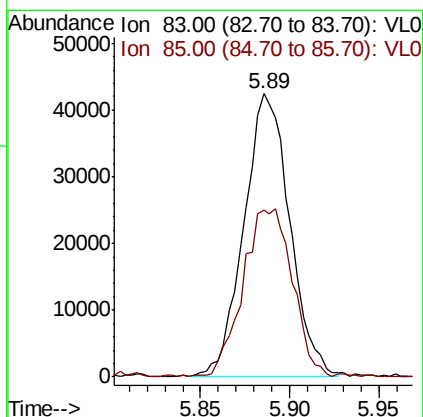
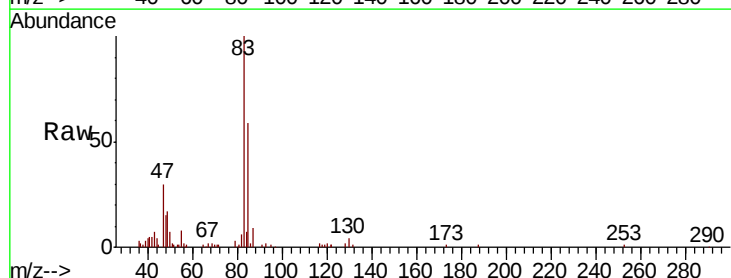
Acq: 11 Sep 2018 3:19

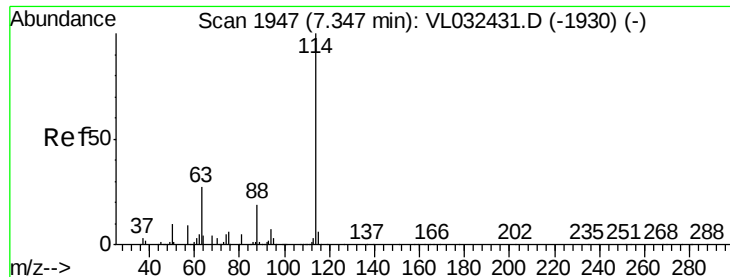
Tgt Ion: 83 Resp: 76357

Ion Ratio Lower Upper

83 100

85 59.0 52.5 78.7

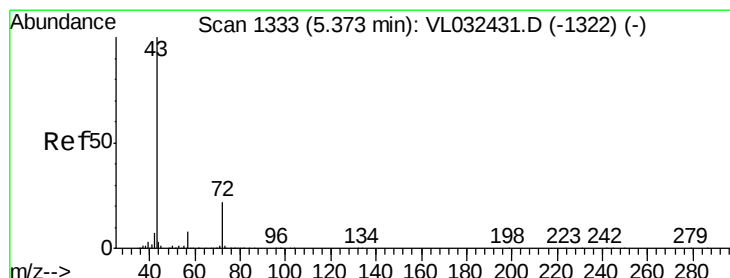
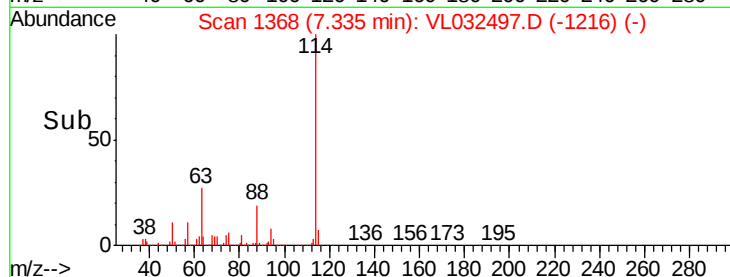
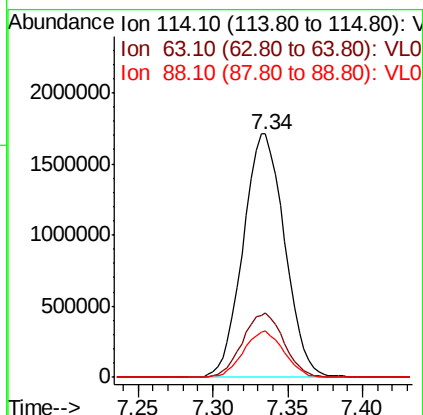
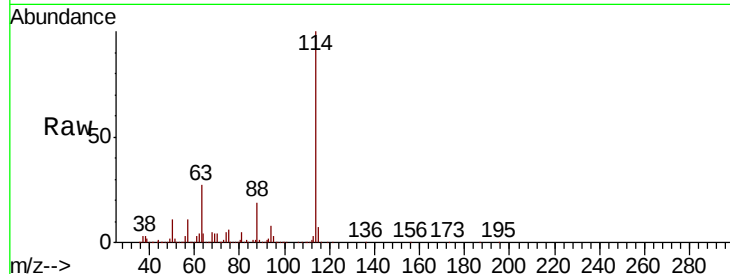




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.34 min Scan# 1368
 Delta R.T. -0.01 min
 Lab File: VL032497.D
 Acq: 11 Sep 2018 3:19

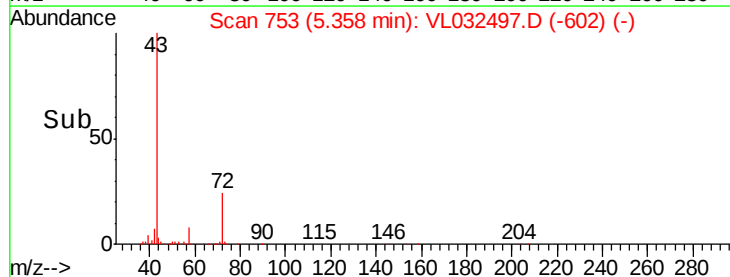
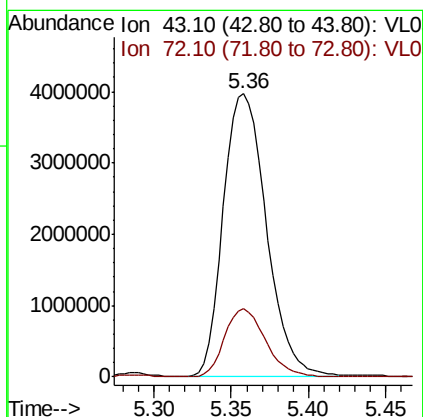
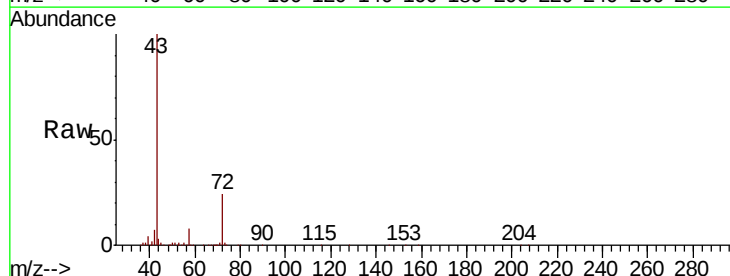
Instrument :
 MSVOA_L
 ClientSampleId :
 253-BERRYDL

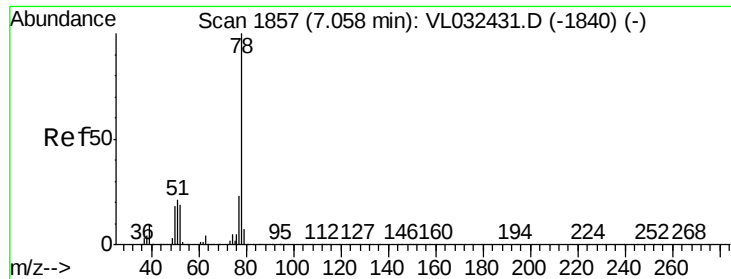
Tgt Ion: 114 Resp: 3306108
 Ion Ratio Lower Upper
 114 100
 63 26.3 22.2 33.4
 88 18.8 15.0 22.4



#34
 2-Butanone
 Concen: 35.019 ppbv
 RT: 5.36 min Scan# 753
 Delta R.T. -0.01 min
 Lab File: VL032497.D
 Acq: 11 Sep 2018 3:19

Tgt Ion: 43 Resp: 7690265
 Ion Ratio Lower Upper
 43 100
 72 23.2 17.8 26.6





#36

Benzene

Concen: 0.269 ppbv

RT: 7.05 min Scan# 1278

Delta R.T. -0.01 min

Lab File: VL032497.D

Acq: 11 Sep 2018 3:19

Instrument :

MSVOA_L

ClientSampleId :

253-BERRYDL

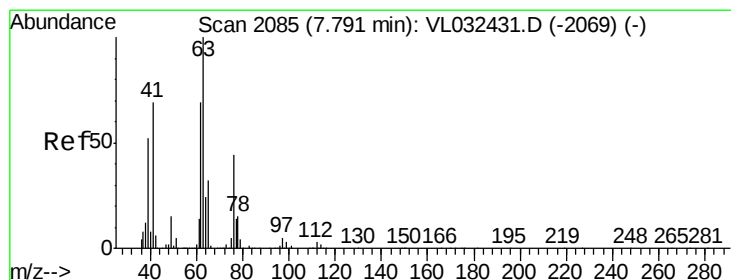
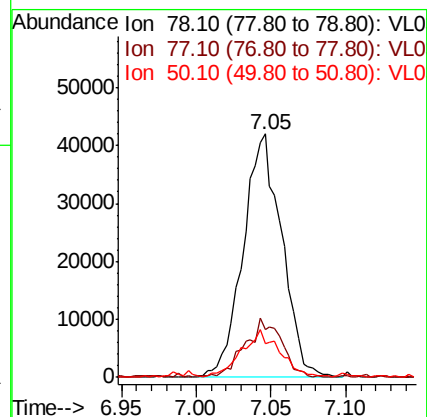
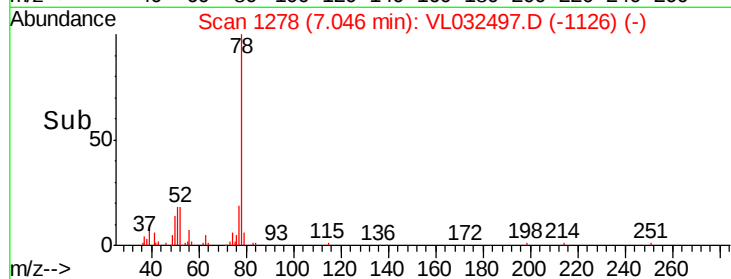
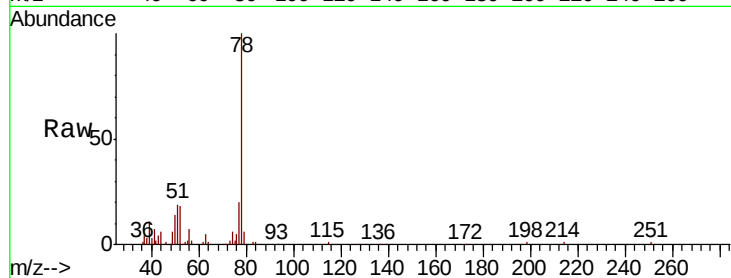
Tgt Ion: 78 Resp: 75667

Ion Ratio Lower Upper

78 100

77 19.6 18.4 27.6

50 12.8 14.4 21.6#



#39

1,2-Dichloropropane

Concen: 7.194 ppbv

RT: 7.34 min Scan# 1368

Delta R.T. -0.46 min

Lab File: VL032497.D

Acq: 11 Sep 2018 3:19

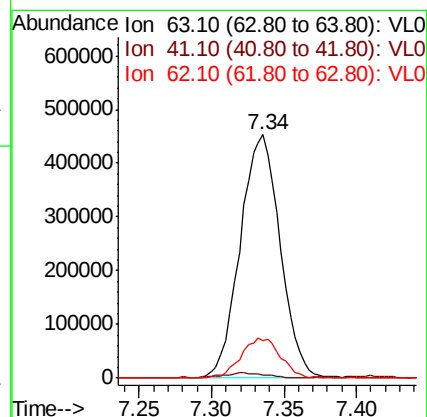
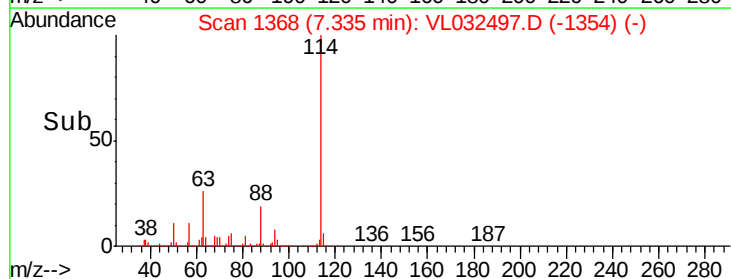
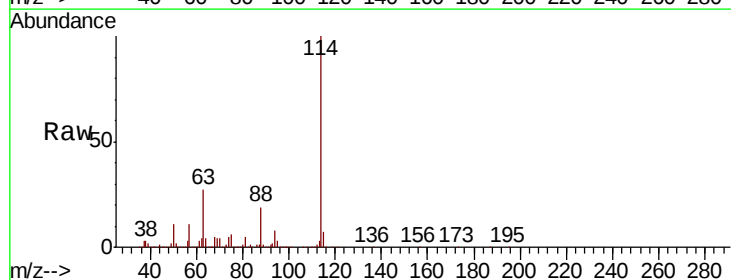
Tgt Ion: 63 Resp: 866050

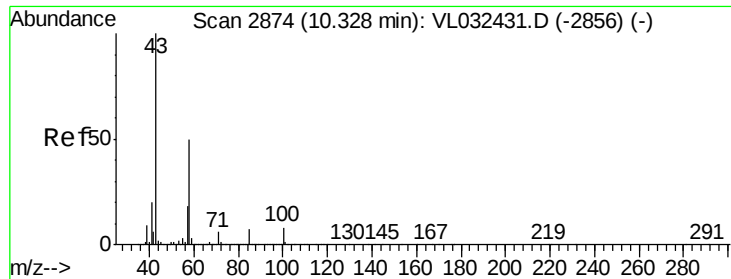
Ion Ratio Lower Upper

63 100

41 1.1 55.4 83.0#

62 15.4 55.4 83.0#

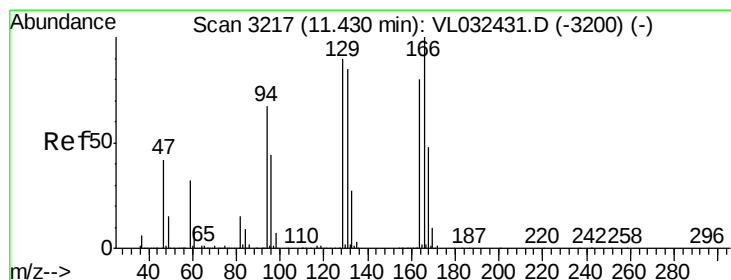
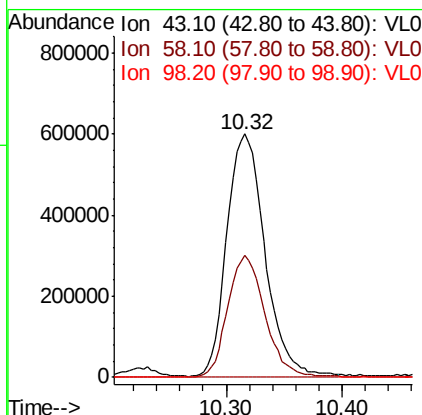
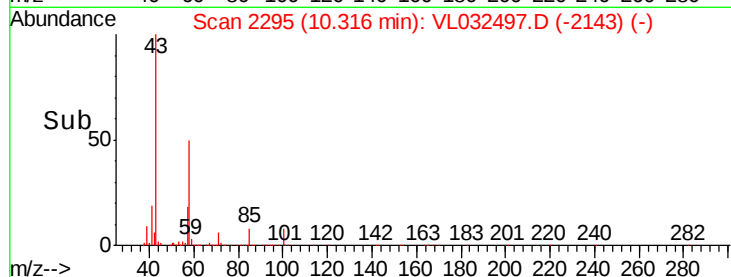
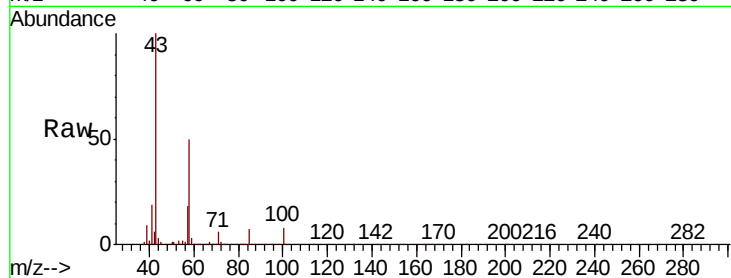




#51
2-Hexanone
Concen: 6.393 ppbv
RT: 10.32 min Scan# 2295
Delta R.T. -0.01 min
Lab File: VL032497.D
Acq: 11 Sep 2018 3:19

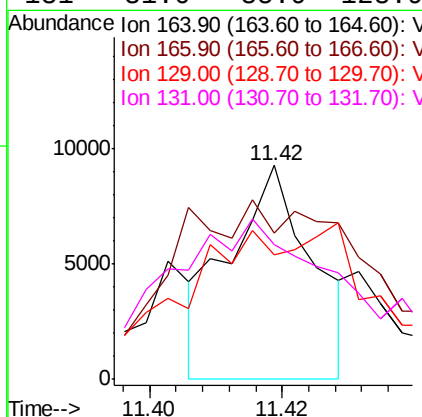
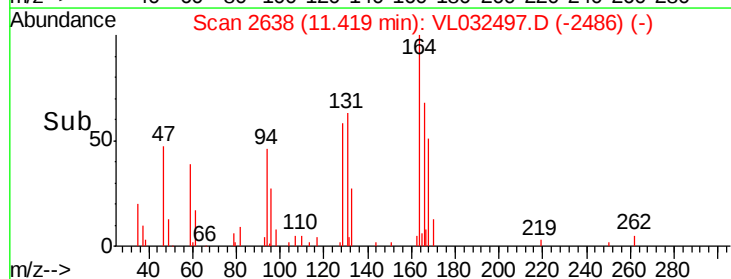
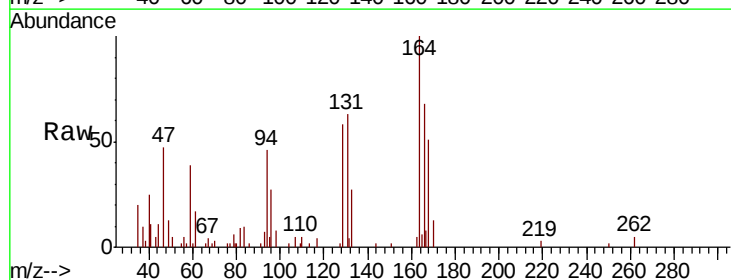
Instrument :
MSVOA_L
ClientSampleId :
253-BERRYDL

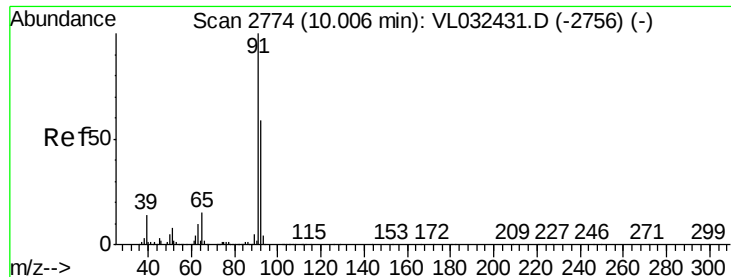
Tgt Ion: 43 Resp: 1362164
Ion Ratio Lower Upper
43 100
58 49.2 39.2 58.8
98 0.4 0.4 0.6#



#52
Tetrachloroethene
Concen: 0.092 ppbv
RT: 11.42 min Scan# 2638
Delta R.T. -0.01 min
Lab File: VL032497.D
Acq: 11 Sep 2018 3:19

Tgt Ion: 164 Resp: 8060
Ion Ratio Lower Upper
164 100
166 0.0 100.6 150.8#
129 46.1 89.9 134.9#
131 31.0 85.9 128.9#





#53

Toluene

Concen: 0.133 ppbv

RT: 9.99 min Scan# 2193

Delta R.T. -0.02 min

Lab File: VL032497.D

Acq: 11 Sep 2018 3:19

Instrument :

MSVOA_L

ClientSampleId :

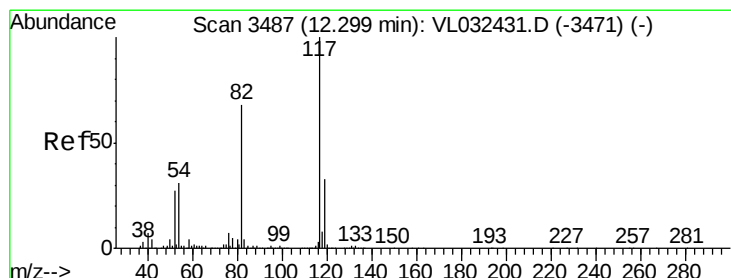
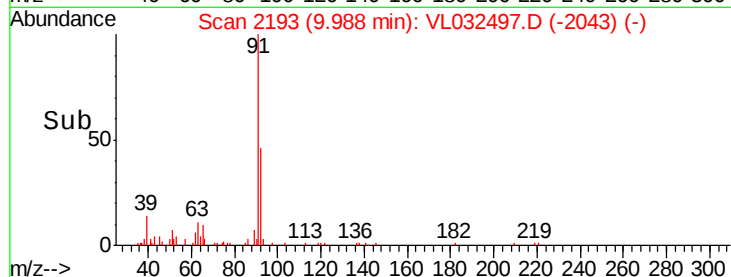
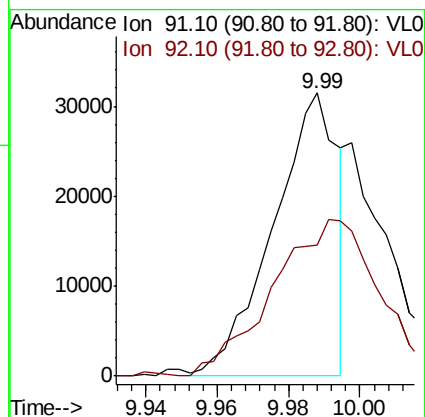
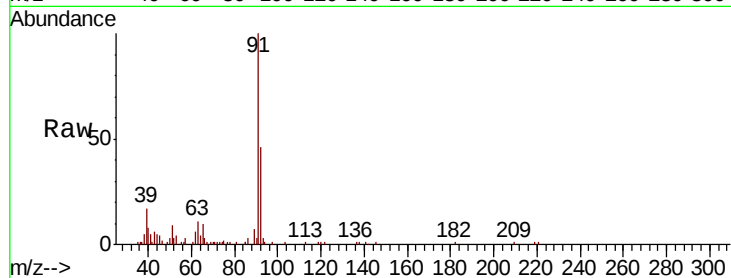
253-BERRYDL

Tgt Ion: 91 Resp: 39256

Ion Ratio Lower Upper

91 100

92 93.3 48.1 72.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.28 min Scan# 2907

Delta R.T. -0.01 min

Lab File: VL032497.D

Acq: 11 Sep 2018 3:19

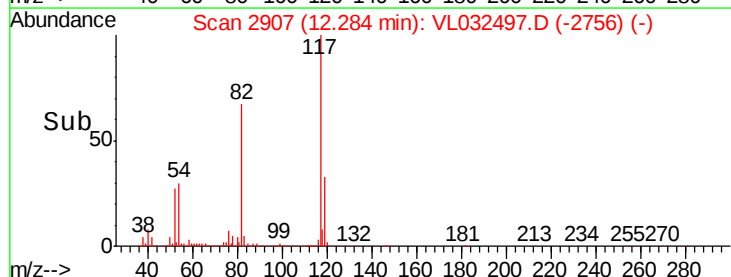
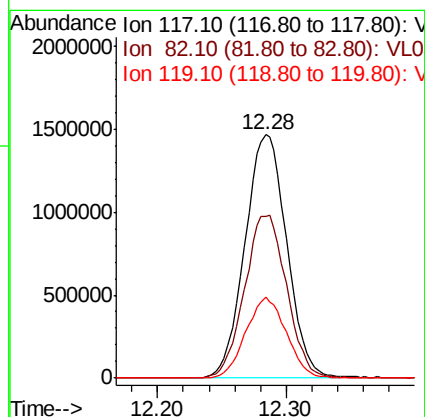
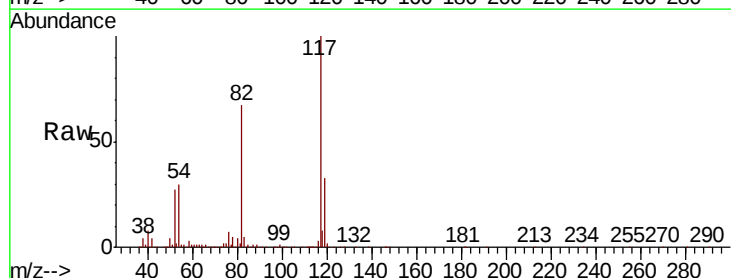
Tgt Ion: 117 Resp: 3311802

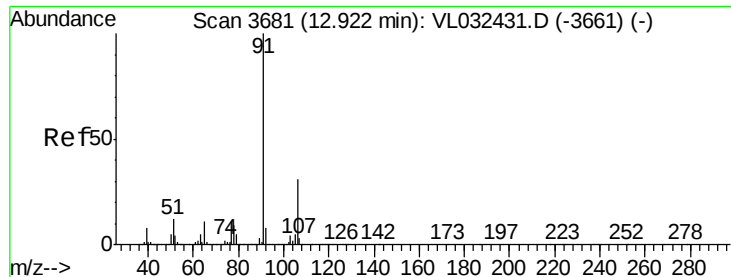
Ion Ratio Lower Upper

117 100

82 67.5 53.0 79.6

119 32.4 45.9 68.9#





#58

Ethyl Benzene

Concen: 0.041 ppbv

RT: 12.91 min Scan# 3101

Delta R.T. -0.01 min

Lab File: VL032497.D

Acq: 11 Sep 2018 3:19

Instrument :

MSVOA_L

ClientSampleId :

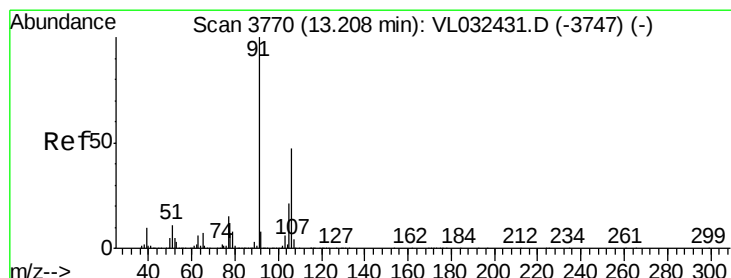
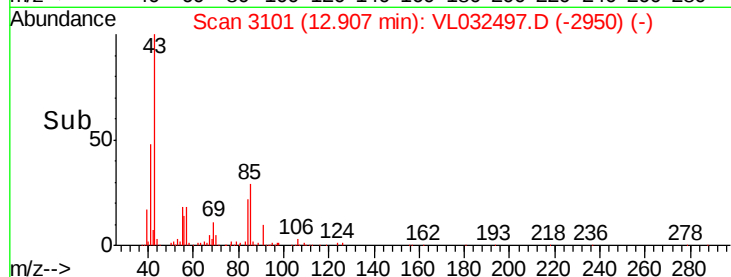
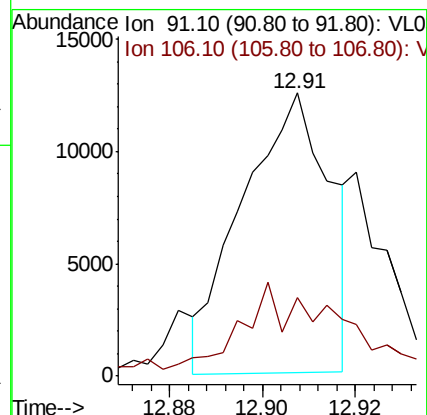
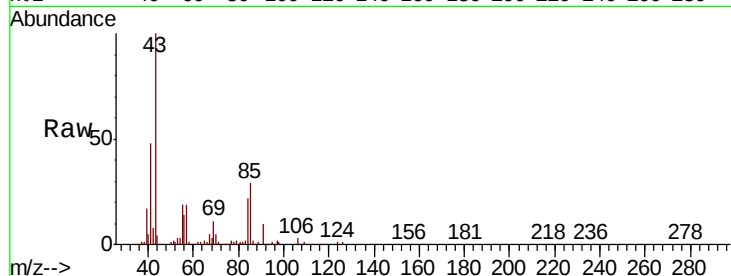
253-BERRYDL

Tgt Ion: 91 Resp: 16330

Ion Ratio Lower Upper

91 100

106 27.2 24.8 37.2



#59

m/p-Xylene

Concen: 0.156 ppbv

RT: 13.16 min Scan# 3181

Delta R.T. -0.04 min

Lab File: VL032497.D

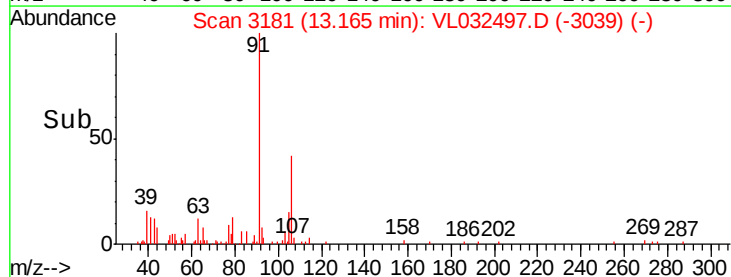
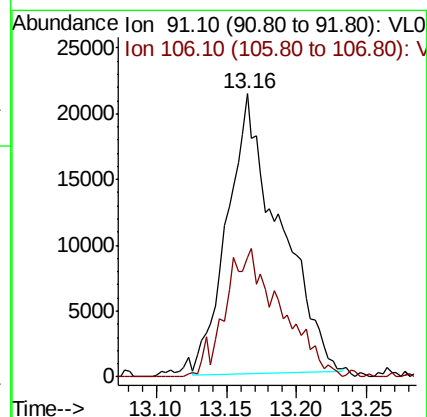
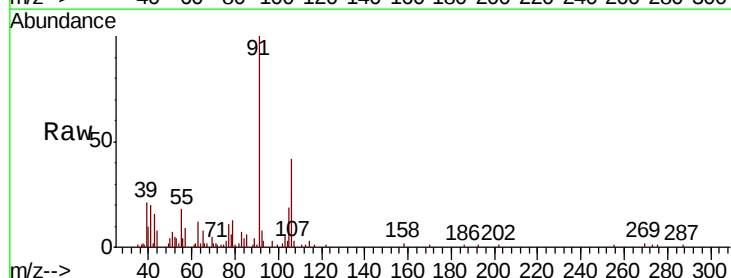
Acq: 11 Sep 2018 3:19

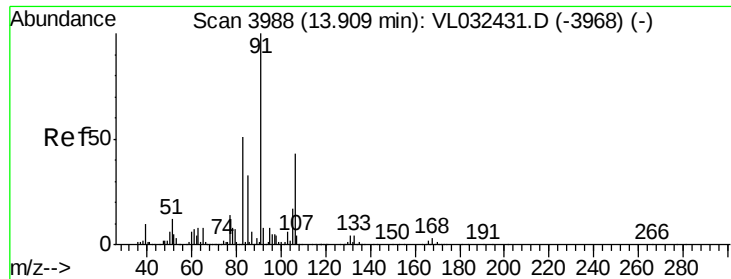
Tgt Ion: 91 Resp: 55122

Ion Ratio Lower Upper

91 100

106 49.2 36.6 55.0

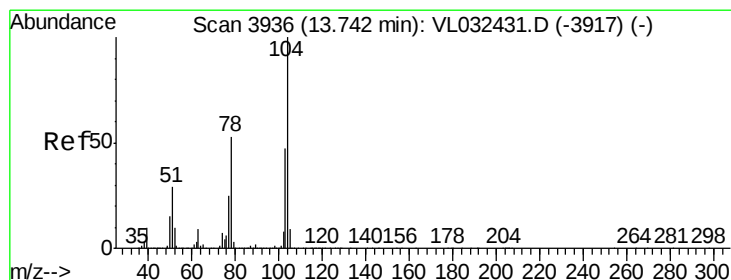
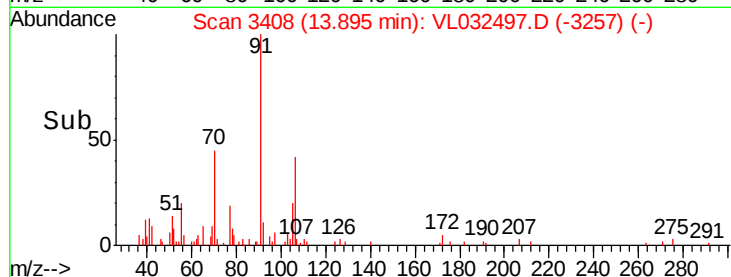
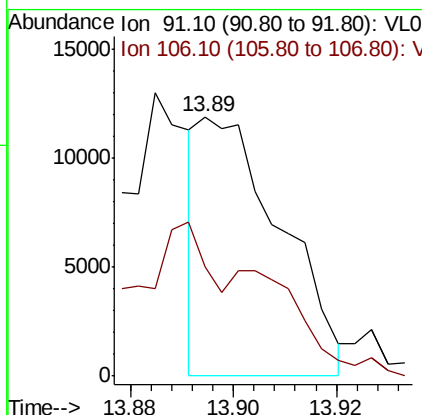
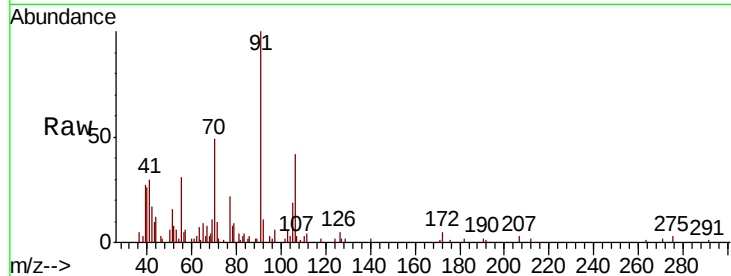




#60
o-Xylene
Concen: 0.038 ppbv
RT: 13.89 min Scan# 3408
Delta R.T. -0.01 min
Lab File: VL032497.D
Acq: 11 Sep 2018 3:19

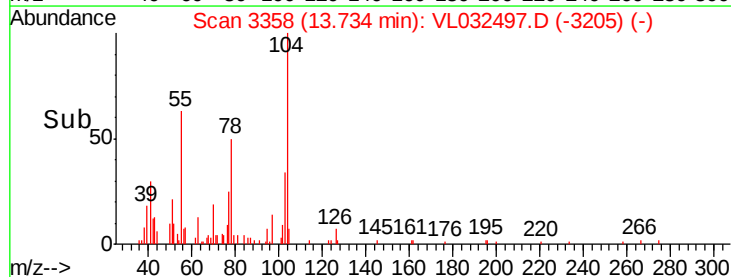
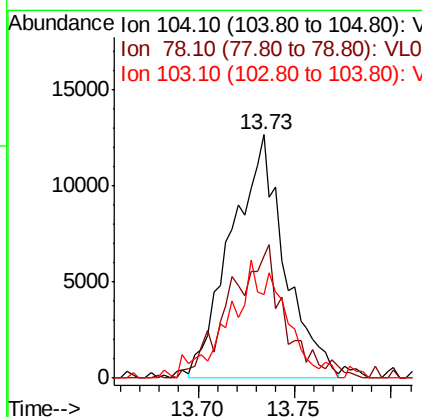
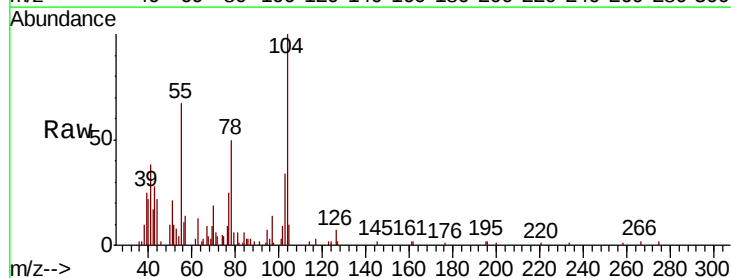
Instrument :
MSVOA_L
ClientSampleId :
253-BERRYDL

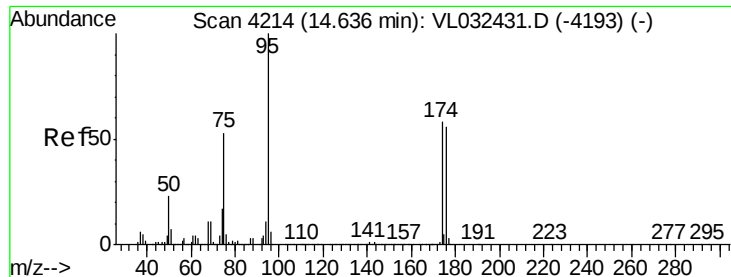
Tgt Ion: 91 Resp: 13019
Ion Ratio Lower Upper
91 100
106 104.7 21.9 65.7#



#61
Styrene
Concen: 0.108 ppbv
RT: 13.73 min Scan# 3358
Delta R.T. -0.01 min
Lab File: VL032497.D
Acq: 11 Sep 2018 3:19

Tgt Ion: 104 Resp: 24354
Ion Ratio Lower Upper
104 100
78 57.3 41.8 62.8
103 51.0 38.0 57.0

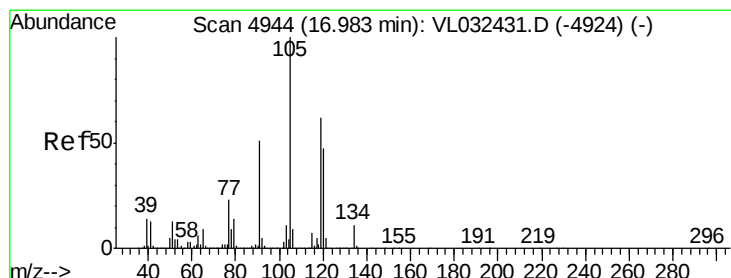
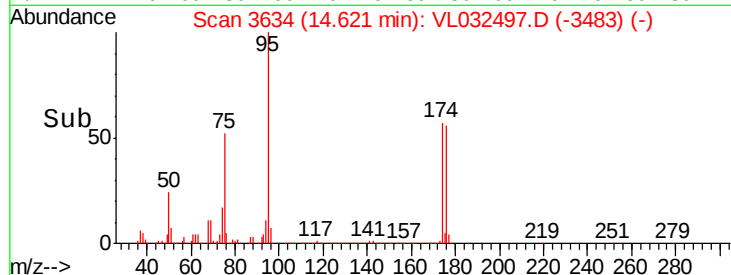
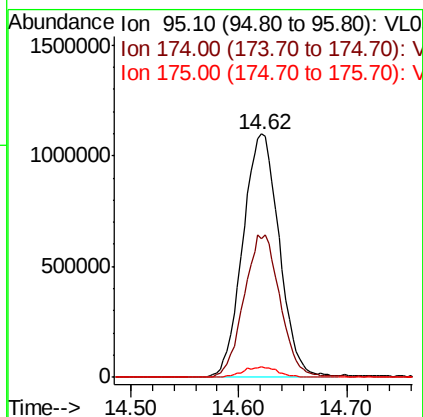
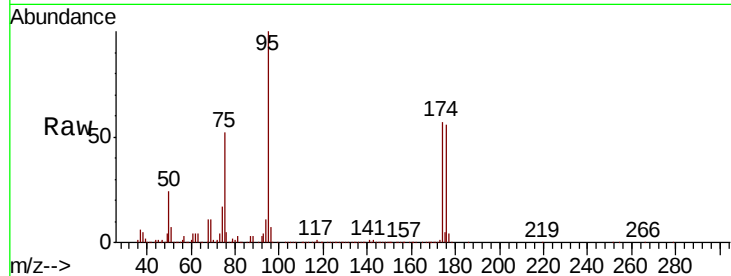




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.506 ppbv
 RT: 14.62 min Scan# 3634
 Delta R.T. -0.01 min
 Lab File: VL032497.D
 Acq: 11 Sep 2018 3:19

Instrument :
 MSVOA_L
 ClientSampleID :
 253-BERRYDL

Tgt Ion: 95 Resp: 2583098
 Ion Ratio Lower Upper
 95 100
 174 58.7 46.3 69.5
 175 4.2 3.4 5.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.046 ppbv
 RT: 16.97 min Scan# 4363
 Delta R.T. -0.02 min
 Lab File: VL032497.D
 Acq: 11 Sep 2018 3:19

Tgt Ion: 105 Resp: 19233
 Ion Ratio Lower Upper
 105 100
 120 39.1 37.8 56.8
 91 13.8 41.4 62.0#
 77 21.5 18.6 28.0

