

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL091018\
 Data File : VL032494.D
 Acq On : 11 Sep 2018 1:22
 Operator : SY/AP
 Sample : 4820-05
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 249-BERRY

Quant Time: Sep 11 05:30:30 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	5.83	49	1392617	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.36	114	3270027	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.30	117	3103131	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2461772	10.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.10	85	110873	0.622	ppbv	97
3) Chlorodifluoromethane	3.04	51	114833	0.911	ppbv #	86
4) Chloromethane	3.19	50	89286	1.170	ppbv	93
7) Chloroethane	3.63	64	8195	0.314	ppbv #	78
9) Propene	3.06	41	7857116	154.512	ppbv	100
10) Heptane	8.30	43	352053	1.930	ppbv	95
11) Trichlorofluoromethane	4.04	101	852541	5.308	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.60	101	9977	0.092	ppbv	96
13) Ethanol	3.71	45	1463150	92.307	ppbv	97
15) Acetone	3.95	43	14292153	113.965	ppbv #	31
16) 1,3-Butadiene	3.42	39	687989	11.658	ppbv #	1
17) tert-Butyl alcohol	4.43	59	926114	47.987	ppbv #	100
19) Isopropyl Alcohol	4.08	45	36181	0.440	ppbv #	93
20) Methylene Chloride	4.46	84	629785	13.170	ppbv	93
21) Allyl Chloride	4.47	41	100467	1.206	ppbv #	23
23) Vinyl Acetate	5.23	43	766161	3.686	ppbv #	58
25) Ethyl Acetate	5.82	43	790621	2.670	ppbv #	80
26) Hexane	5.82	57	974731	7.350	ppbv #	31
27) Carbon Disulfide	4.66	76	546116	4.461	ppbv #	93
28) Methyl tert-Butyl Ether	5.30	73	28696	0.176	ppbv #	1
29) Chloroform	5.92	83	4160334	20.577	ppbv	100
30) Cyclohexane	7.36	84	8140	0.084	ppbv #	1
34) 2-Butanone	5.38	43	4373298	20.134	ppbv #	1
36) Benzene	7.06	78	1551450	5.575	ppbv	97
37) 1,2-Dichloroethane	6.48	62	36332	0.213	ppbv #	89
38) Trichloroethene	8.03	130	8528	0.081	ppbv #	89
39) 1,2-Dichloropropane	7.36	63	837043	7.030	ppbv #	25
41) Tetrahydrofuran	6.20	42	20277	0.171	ppbv #	56
42) Bromodichloromethane	7.99	83	323685	1.376	ppbv #	84
43) Methyl Methacrylate	8.23	69	109203	0.925	ppbv #	47
44) 2,2,4-Trimethylpentane	8.04	57	752465	1.399	ppbv #	66
48) Dibromochloromethane	10.52	129	22589	0.129	ppbv #	2
50) 4-Methyl-2-Pentanone	8.93	43	90860	0.278	ppbv #	88
51) 2-Hexanone	10.32	43	19227785	91.233	ppbv #	89
52) Tetrachloroethene	11.43	164	44418	0.515	ppbv	94
53) Toluene	10.00	91	1366582	4.698	ppbv	100
58) Ethyl Benzene	12.92	91	436404	1.175	ppbv	92
59) m/p-Xylene	13.17	91	1531328	4.625	ppbv	98
60) o-Xylene	13.90	91	733804	2.256	ppbv	99
61) Styrene	13.74	104	786011	3.733	ppbv	98
62) Isopropylbenzene	14.88	105	709142	1.551	ppbv	99

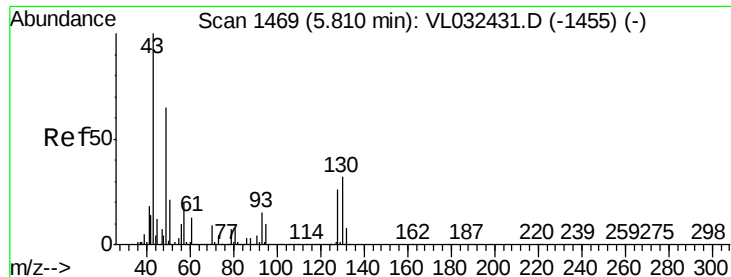
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL091018\
 Data File : VL032494.D
 Acq On : 11 Sep 2018 1:22
 Operator : SY/AP
 Sample : 4820-05
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 249-BERRY

Quant Time: Sep 11 05:30:30 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)
64) n-propylbenzene	15.77	120	21791	0.182	ppbv #	1
65) tert-Butylbenzene	16.98	119	44907	0.114	ppbv #	1
69) p-Isopropyltoluene	17.87	119	188810	0.411	ppbv #	82
70) n-Butylbenzene	18.77	91	38814	0.075	ppbv #	33
72) 4-Ethyltoluene	16.05	105	137392	0.387	ppbv #	66
73) 1,3,5-Trimethylbenzene	16.21	105	263258	0.740	ppbv	95
74) 1,2,4-Trimethylbenzene	16.97	105	741573	1.907	ppbv #	71
79) Naphthalene	22.48	128	57015	0.180	ppbv	96
80) Naphthalene,2-methyl-	25.16	142	17426	0.207	ppbv #	91

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.83 min Scan# 899

Delta R.T. 0.02 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

ClientSampleId :

249-BERRY

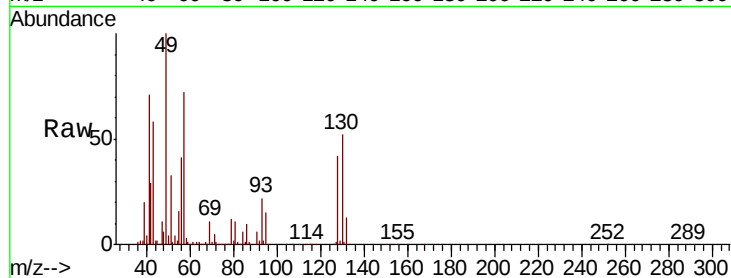
Tgt Ion: 49 Resp: 1392617

Ion Ratio Lower Upper

49 100

128 41.8 20.7 62.1

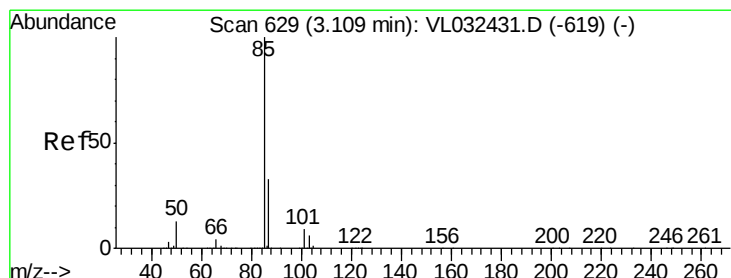
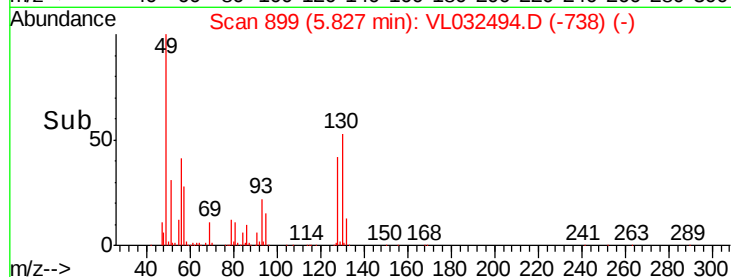
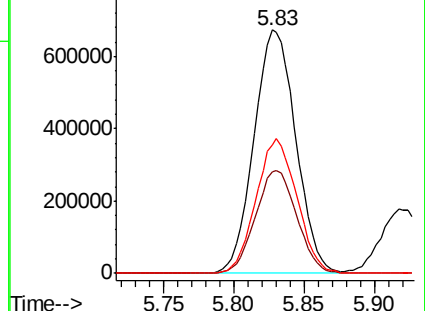
130 53.9 26.6 79.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.622 ppbv

RT: 3.10 min Scan# 51

Delta R.T. -0.01 min

Lab File: VL032494.D

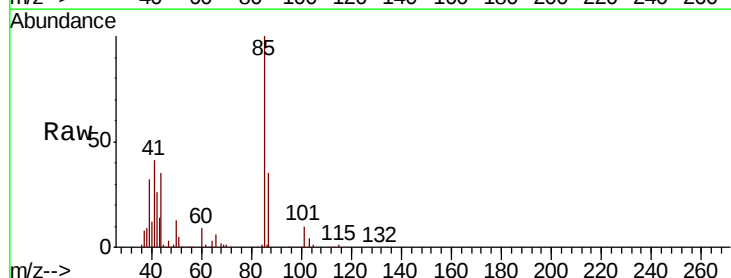
Acq: 11 Sep 2018 1:22

Tgt Ion: 85 Resp: 110873

Ion Ratio Lower Upper

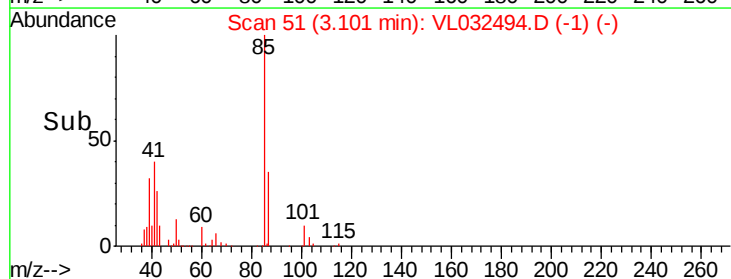
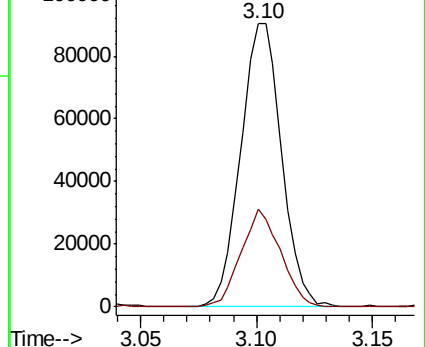
85 100

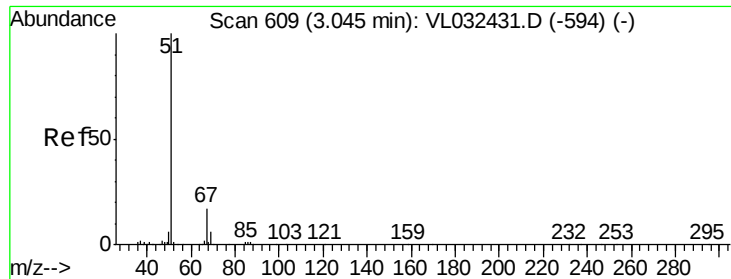
87 34.6 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.911 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.01 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

ClientSampleId :

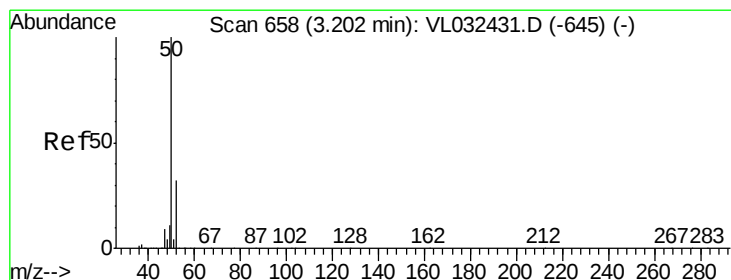
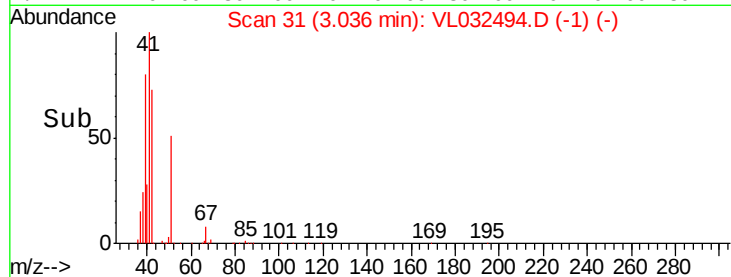
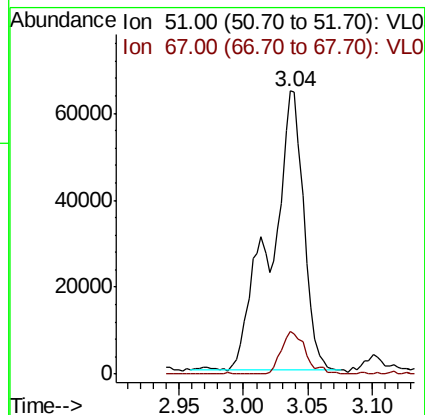
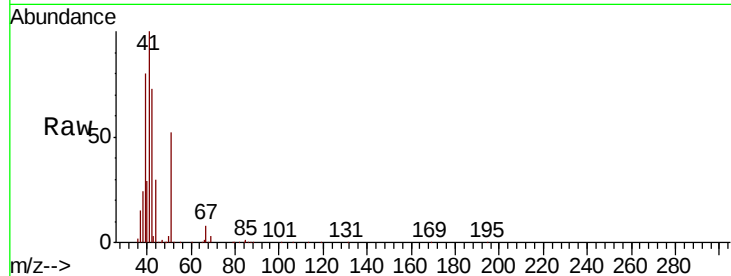
249-BERRY

Tgt Ion: 51 Resp: 114833

Ion Ratio Lower Upper

51 100

67 11.4 13.8 20.8#



#4

Chloromethane

Concen: 1.170 ppbv

RT: 3.19 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL032494.D

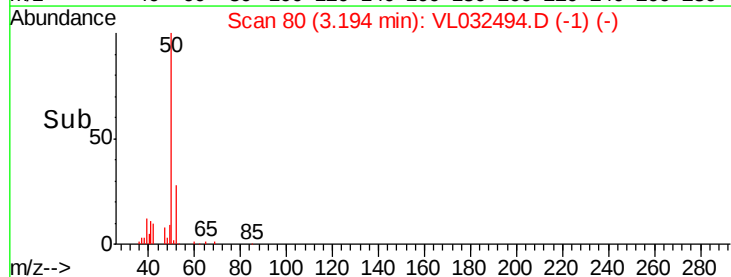
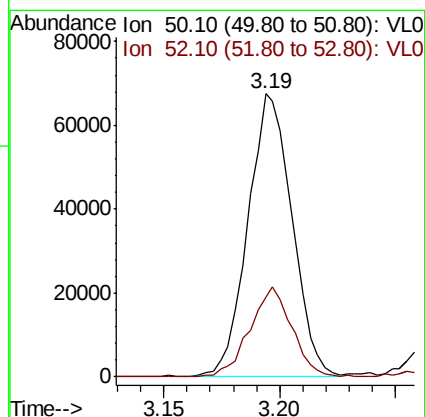
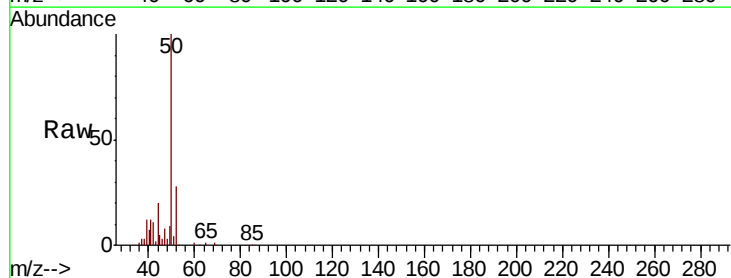
Acq: 11 Sep 2018 1:22

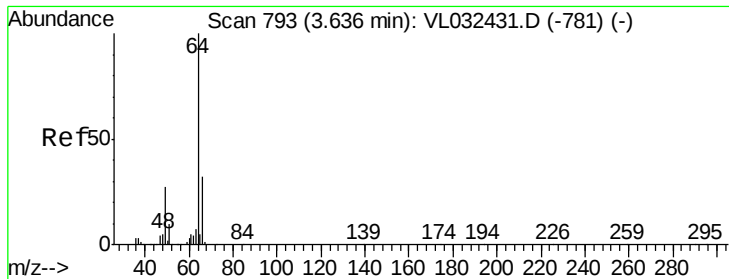
Tgt Ion: 50 Resp: 89286

Ion Ratio Lower Upper

50 100

52 28.1 25.6 38.4





#7

Chloroethane

Concen: 0.314 ppbv

RT: 3.63 min Scan# 217

Delta R.T. -0.00 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

ClientSampleId :

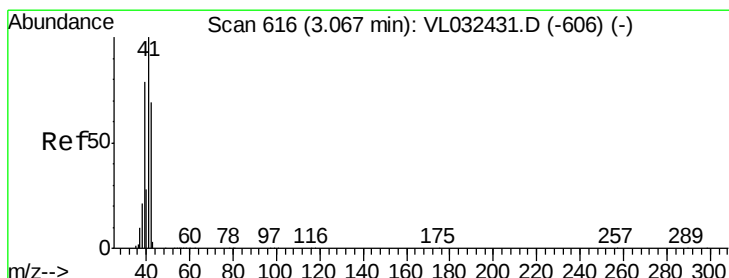
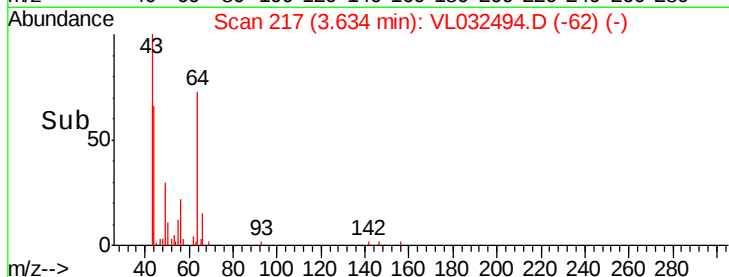
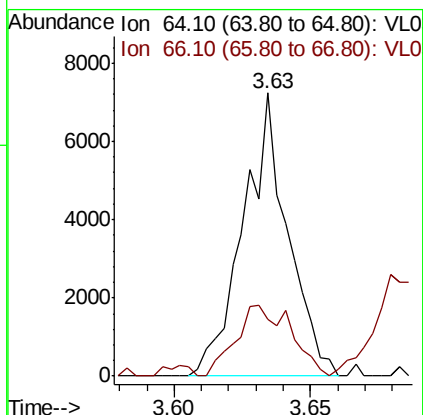
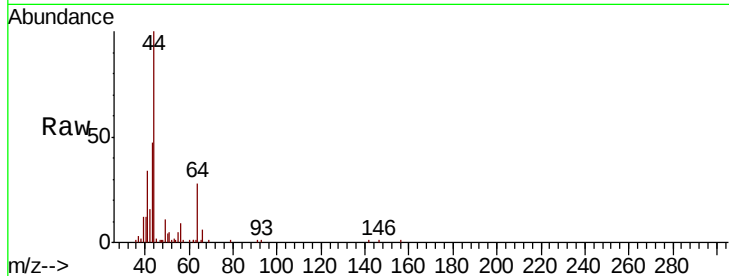
249-BERRY

Tgt Ion: 64 Resp: 8195

Ion Ratio Lower Upper

64 100

66 19.9 25.8 38.6#



#9

Propene

Concen: 154.512 ppbv

RT: 3.06 min Scan# 38

Delta R.T. -0.01 min

Lab File: VL032494.D

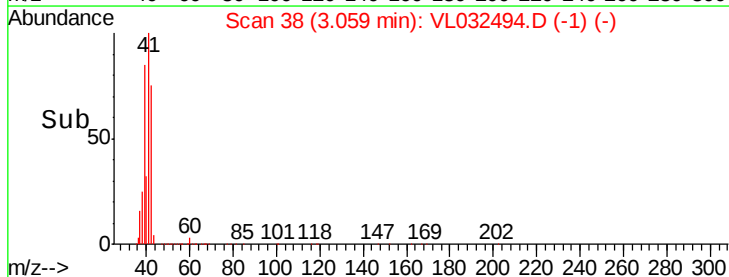
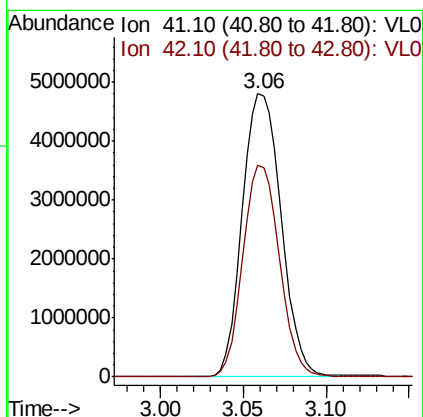
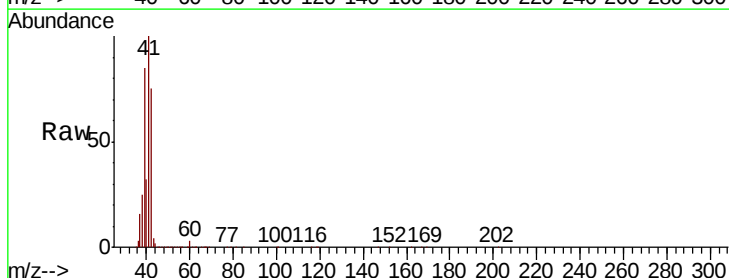
Acq: 11 Sep 2018 1:22

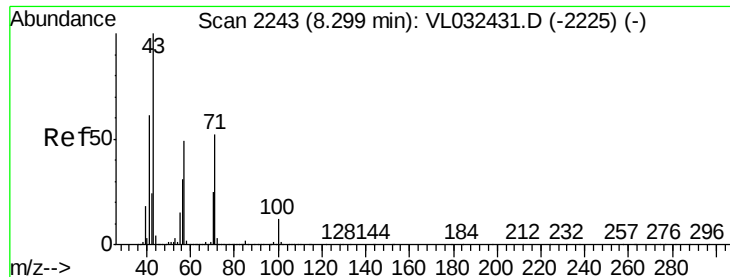
Tgt Ion: 41 Resp: 7857116

Ion Ratio Lower Upper

41 100

42 70.5 56.6 84.8





#10

Heptane

Concen: 1.930 ppbv

RT: 8.30 min Scan# 1667

Delta R.T. -0.00 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

ClientSampleId :

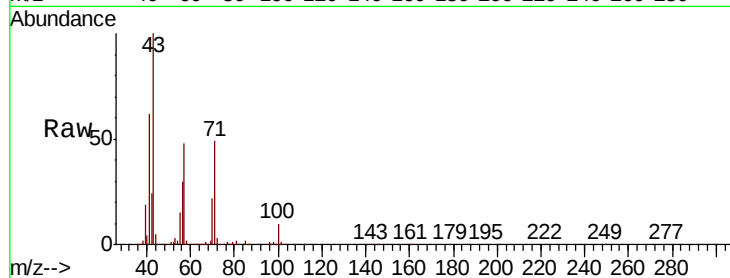
249-BERRY

Tgt Ion: 43 Resp: 352053

Ion Ratio Lower Upper

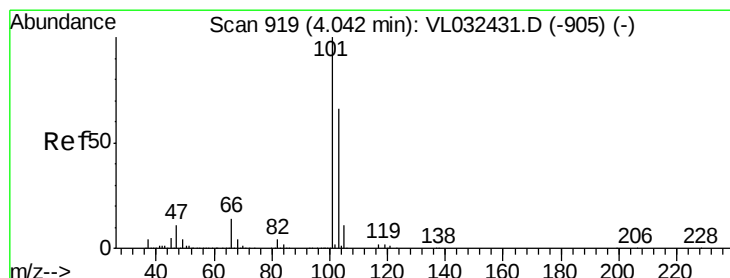
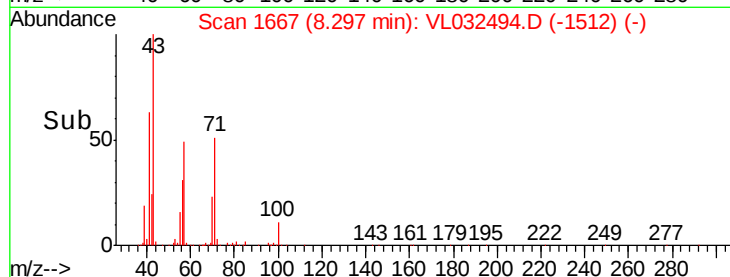
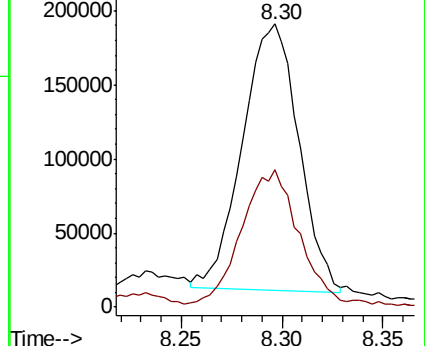
43 100

57 52.6 39.6 59.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 5.308 ppbv

RT: 4.04 min Scan# 343

Delta R.T. -0.00 min

Lab File: VL032494.D

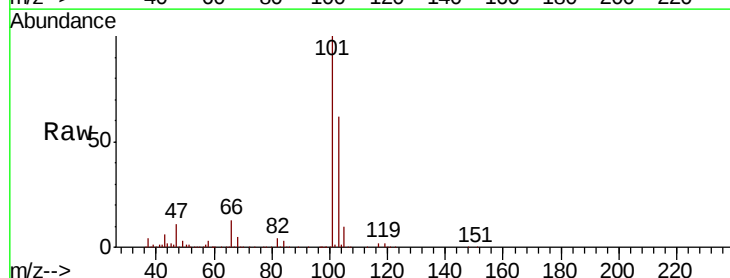
Acq: 11 Sep 2018 1:22

Tgt Ion: 101 Resp: 852541

Ion Ratio Lower Upper

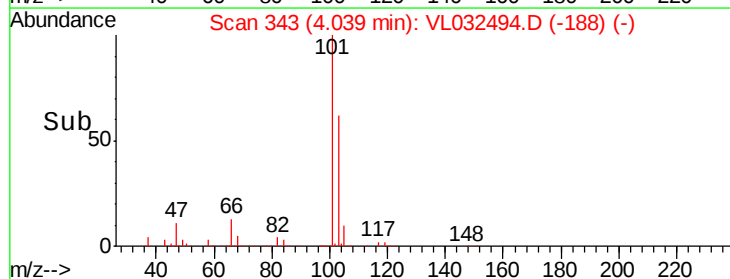
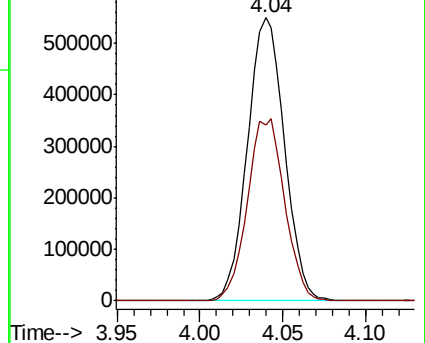
101 100

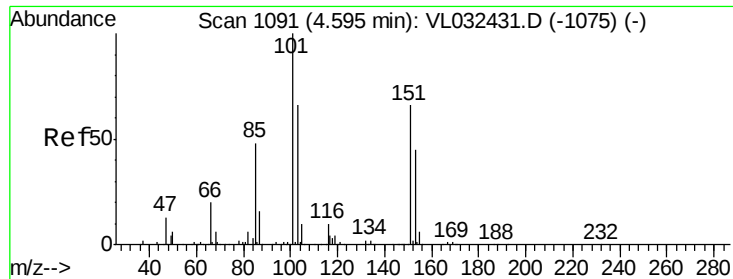
103 62.1 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

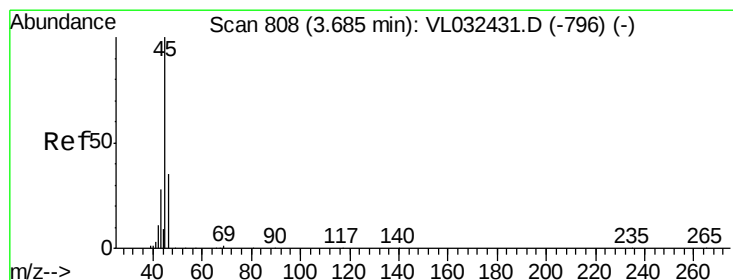
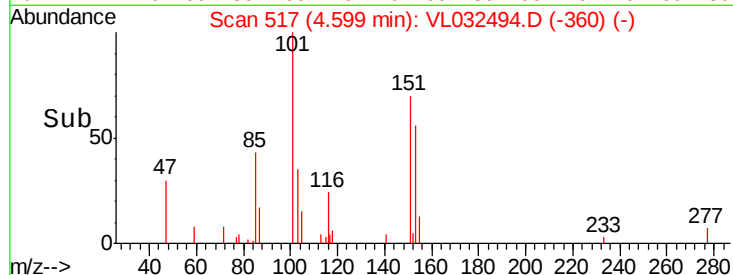
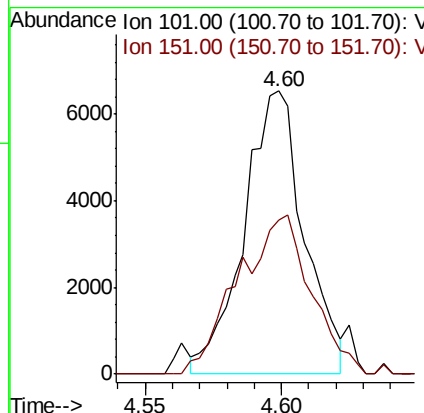
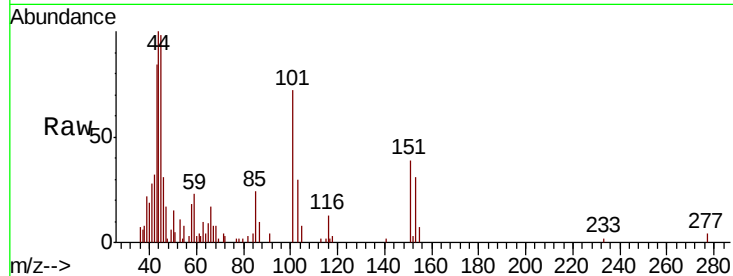




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.092 ppbv
 RT: 4.60 min Scan# 517
 Delta R.T. 0.00 min
 Lab File: VL032494.D
 Acq: 11 Sep 2018 1:22

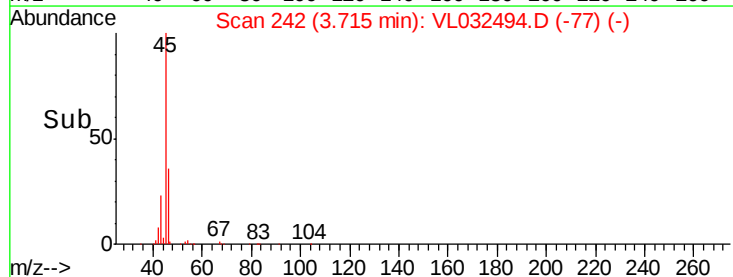
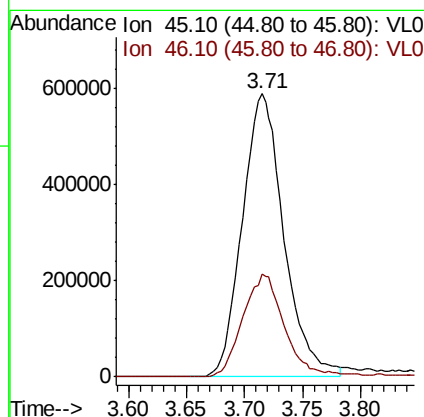
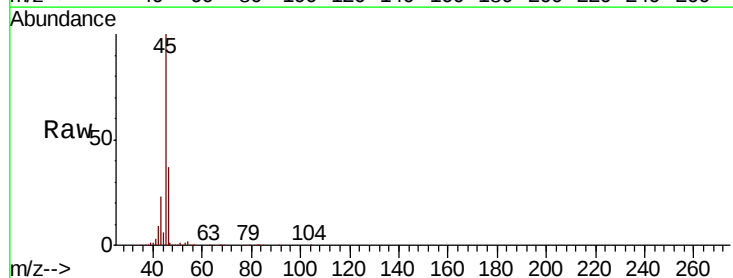
Instrument :
 MSVOA_L
 ClientSampleId :
 249-BERRY

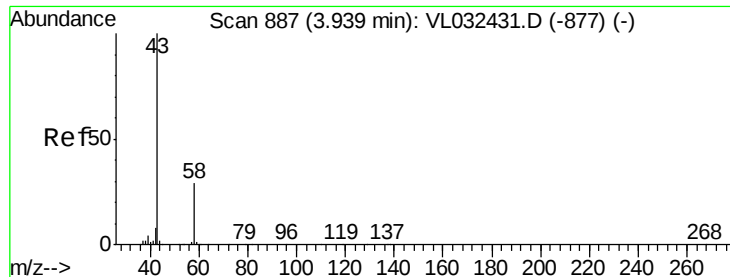
Tgt Ion: 101 Resp: 9977
 Ion Ratio Lower Upper
 101 100
 151 68.8 52.6 78.8



#13
 Ethanol
 Concen: 92.307 ppbv
 RT: 3.71 min Scan# 242
 Delta R.T. 0.03 min
 Lab File: VL032494.D
 Acq: 11 Sep 2018 1:22

Tgt Ion: 45 Resp: 1463150
 Ion Ratio Lower Upper
 45 100
 46 37.0 14.2 56.8





#15

Acetone

Concen: 113.965 ppbv

RT: 3.95 min Scan# 314

Delta R.T. 0.01 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

ClientSampleId :

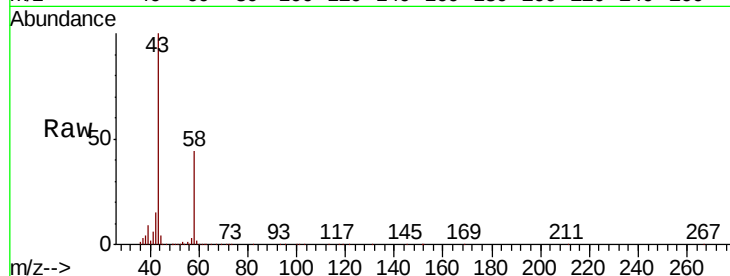
249-BERRY

Tgt Ion: 43 Resp:14292153

Ion Ratio Lower Upper

43 100

58 64.5 22.6 33.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

8000000

6000000

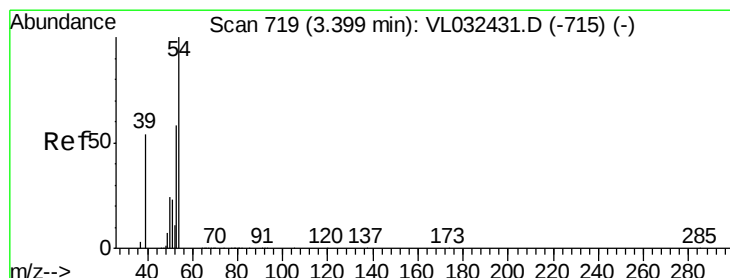
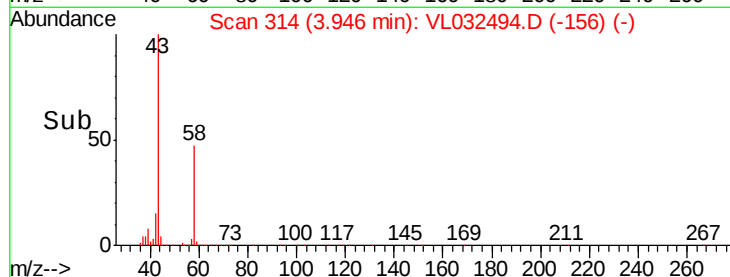
4000000

2000000

0

3.90 3.95 4.00 4.05

Time-->



#16

1,3-Butadiene

Concen: 11.658 ppbv

RT: 3.42 min Scan# 150

Delta R.T. 0.02 min

Lab File: VL032494.D

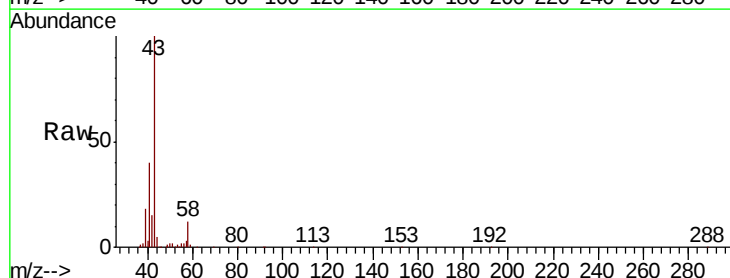
Acq: 11 Sep 2018 1:22

Tgt Ion: 39 Resp: 687989

Ion Ratio Lower Upper

39 100

54 0.0 80.8 121.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3000000

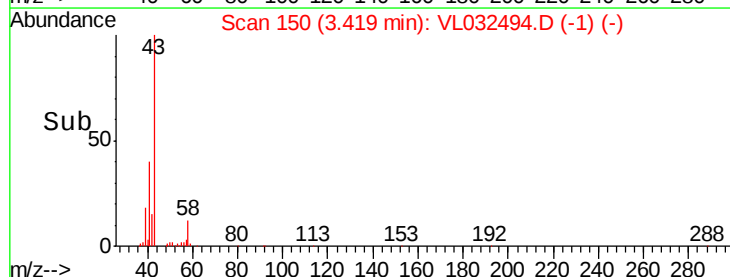
2000000

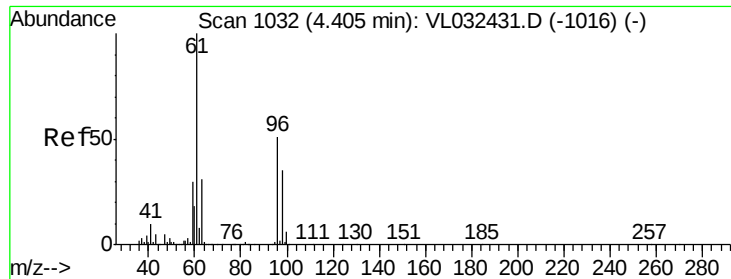
1000000

0

3.40 3.42 3.44 3.46

Time-->

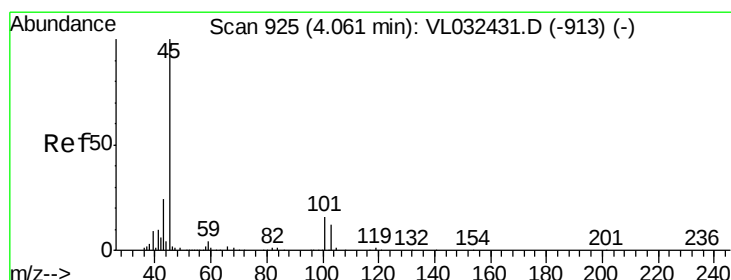
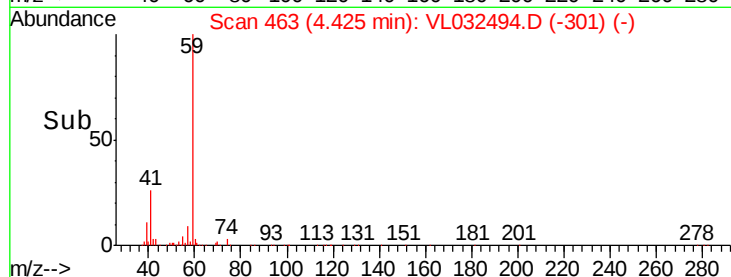
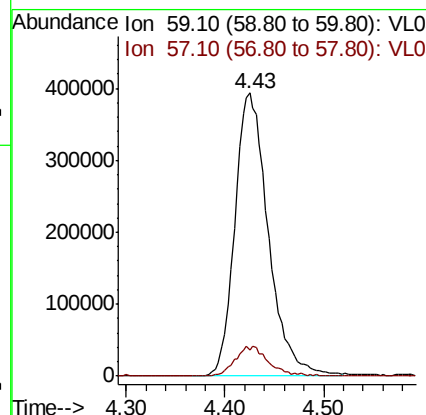
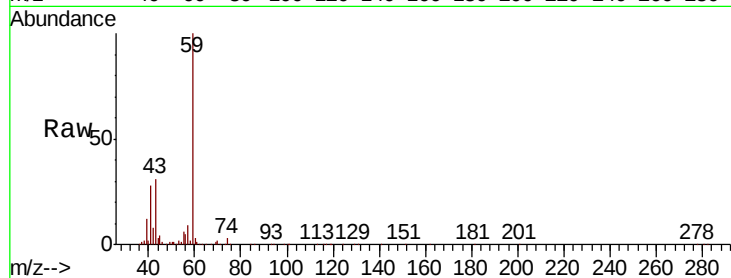




#17
 tert-Butyl alcohol
 Concen: 47.987 ppbv
 RT: 4.43 min Scan# 463
 Delta R.T. 0.02 min
 Lab File: VL032494.D
 Acq: 11 Sep 2018 1:22

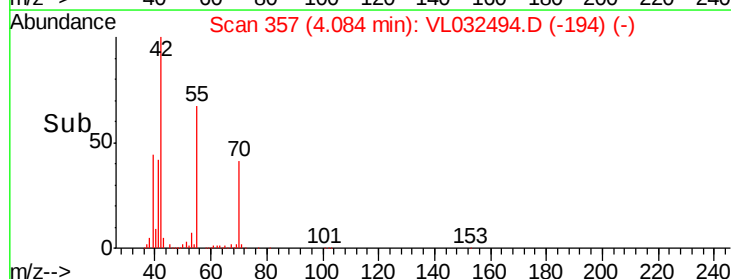
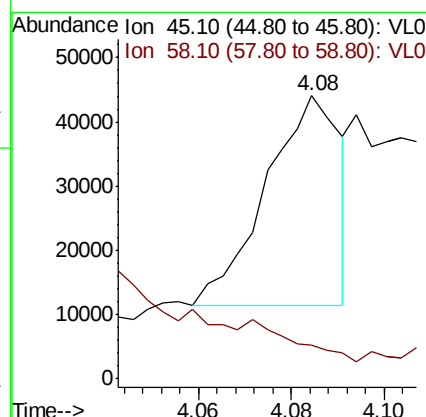
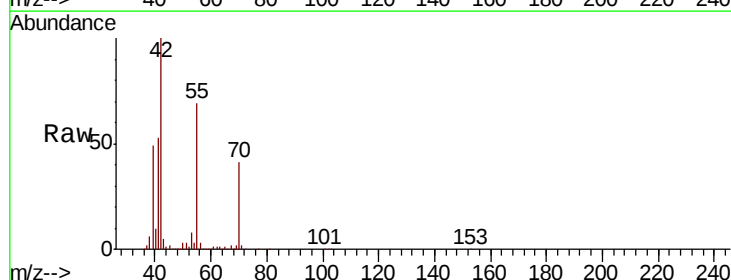
Instrument :
 MSVOA_L
 ClientSampleId :
 249-BERRY

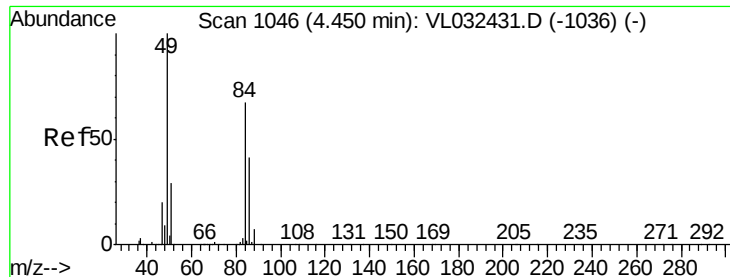
Tgt Ion: 59 Resp: 926114
 Ion Ratio Lower Upper
 59 100
 57 10.4 0.0 0.0#



#19
 Isopropyl Alcohol
 Concen: 0.440 ppbv
 RT: 4.08 min Scan# 357
 Delta R.T. 0.02 min
 Lab File: VL032494.D
 Acq: 11 Sep 2018 1:22

Tgt Ion: 45 Resp: 36181
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.0 3.0#

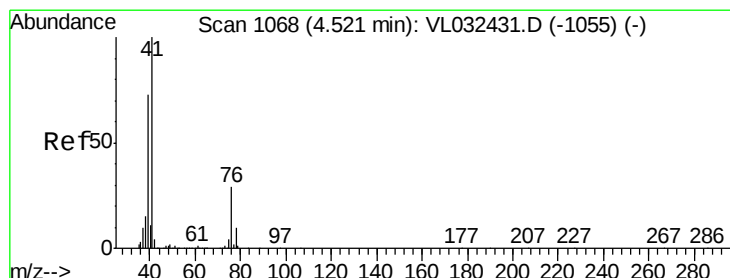
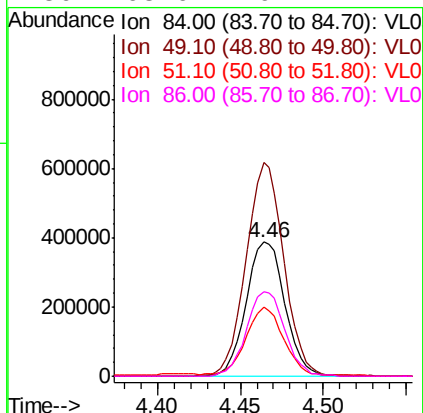
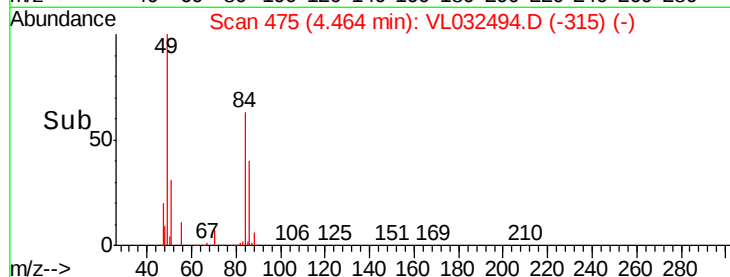
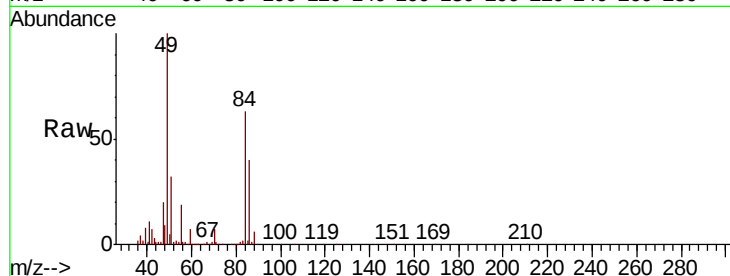




#20
Methylene Chloride
Concen: 13.170 ppbv
RT: 4.46 min Scan# 475
Delta R.T. 0.01 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

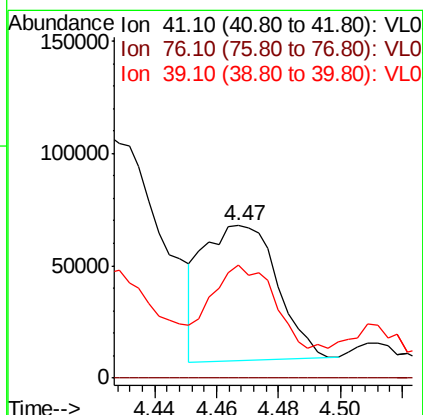
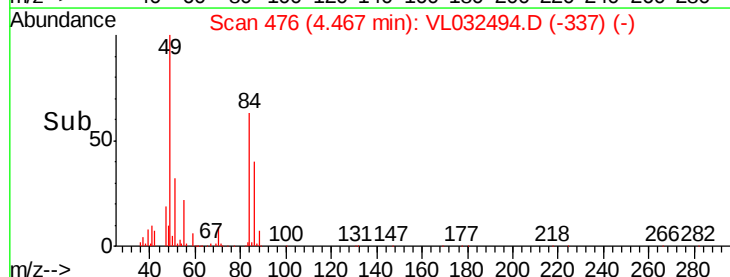
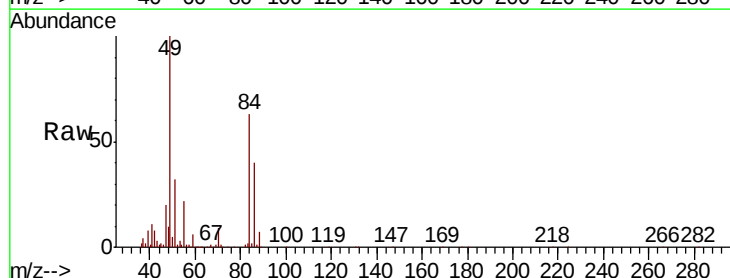
Instrument :
MSVOA_L
ClientSampleId :
249-BERRY

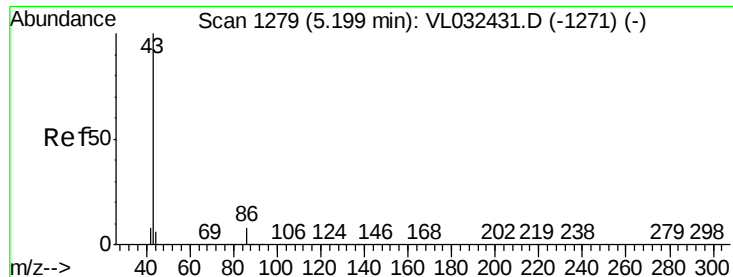
Tgt Ion: 84 Resp: 629785
Ion Ratio Lower Upper
84 100
49 159.4 119.1 178.7
51 50.1 35.2 52.8
86 63.6 49.4 74.2



#21
Allyl Chloride
Concen: 1.206 ppbv
RT: 4.47 min Scan# 476
Delta R.T. -0.05 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Tgt Ion: 41 Resp: 100467
Ion Ratio Lower Upper
41 100
76 0.0 23.6 35.4#
39 0.0 57.7 86.5#

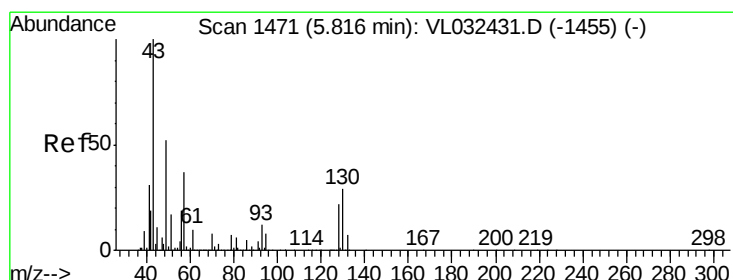
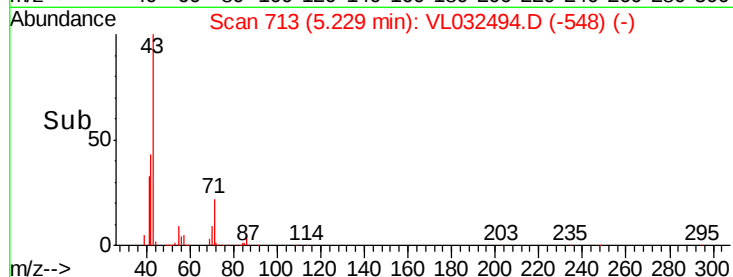
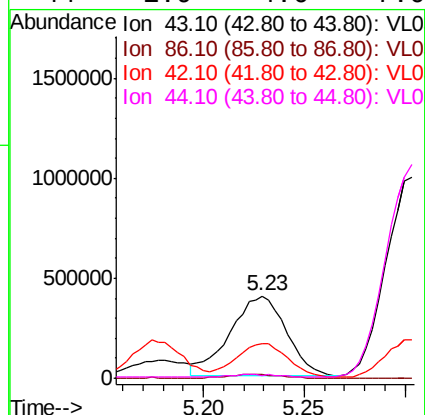
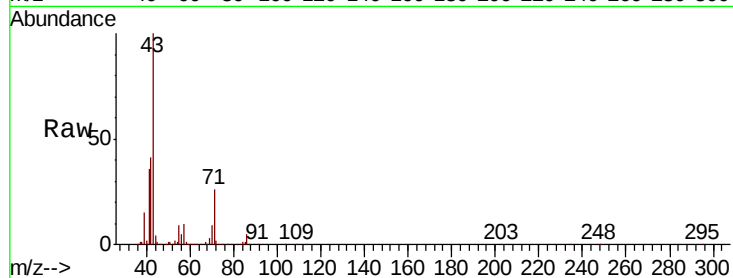




#23
 Vinyl Acetate
 Concen: 3.686 ppbv
 RT: 5.23 min Scan# 713
 Delta R.T. 0.03 min
 Lab File: VL032494.D
 Acq: 11 Sep 2018 1:22

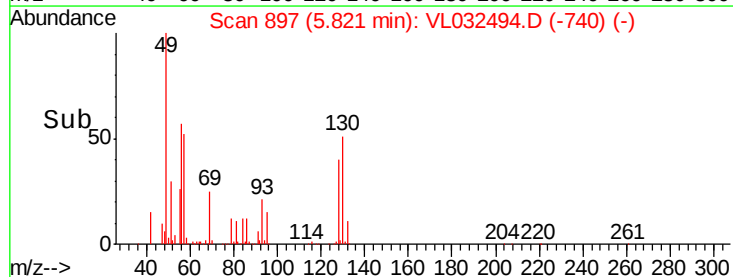
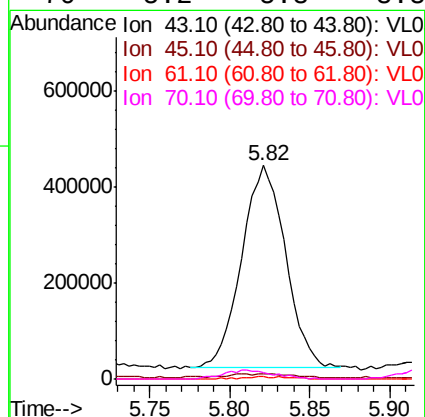
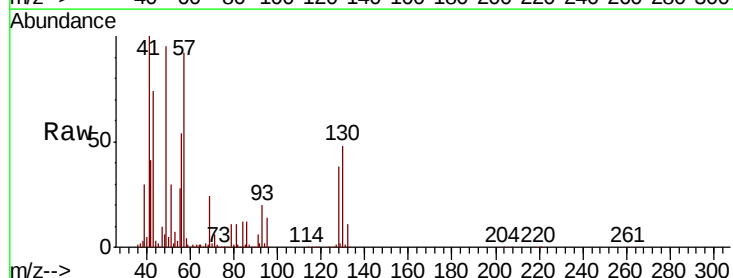
Instrument :
 MSVOA_L
 ClientSampleId :
 249-BERRY

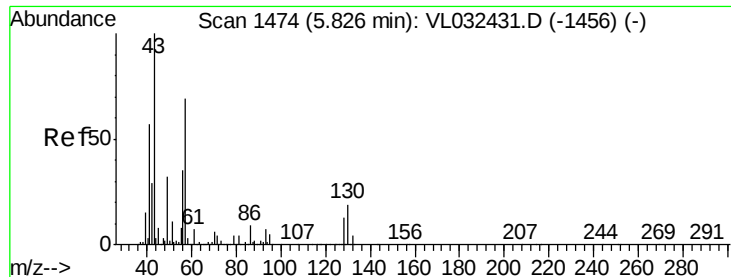
Tgt Ion:	43	Resp:	766161
Ion	Ratio	Lower	Upper
43	100		
86	4.8	5.9	8.9#
42	41.5	6.9	10.3#
44	1.9	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 2.670 ppbv
 RT: 5.82 min Scan# 897
 Delta R.T. 0.00 min
 Lab File: VL032494.D
 Acq: 11 Sep 2018 1:22

Tgt Ion:	43	Resp:	790621
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.0	12.0#
61	1.4	7.6	11.4#
70	5.2	5.8	8.8#

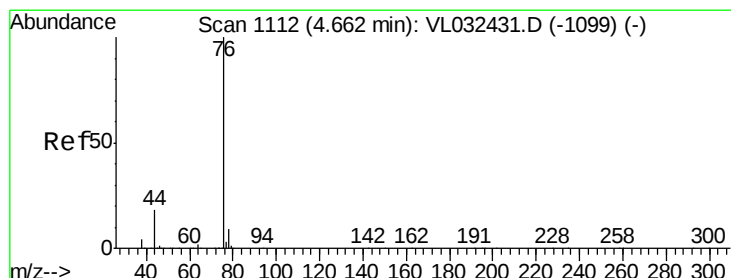
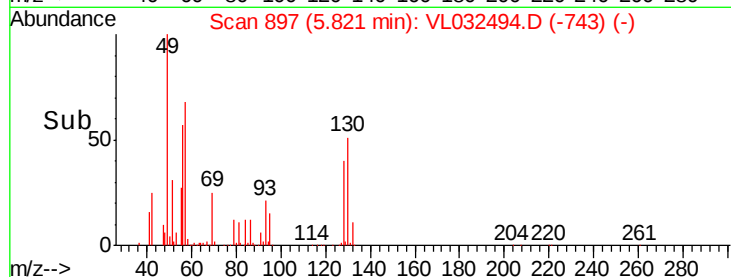
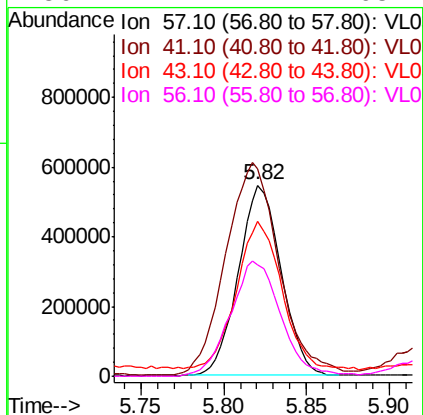
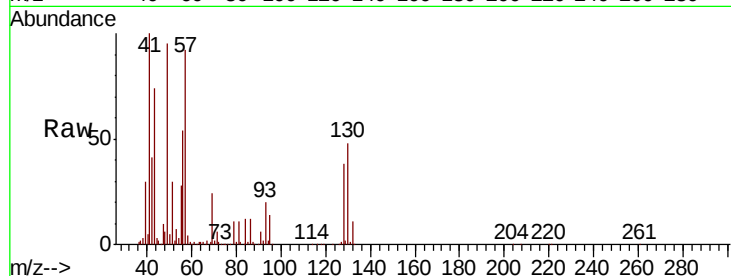




#26
Hexane
Concen: 7.350 ppbv
RT: 5.82 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

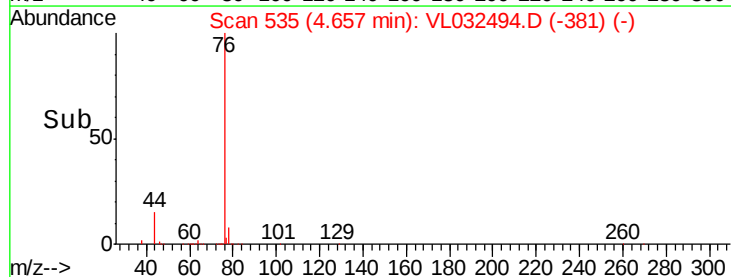
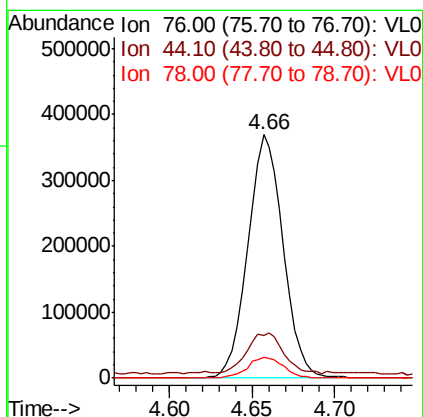
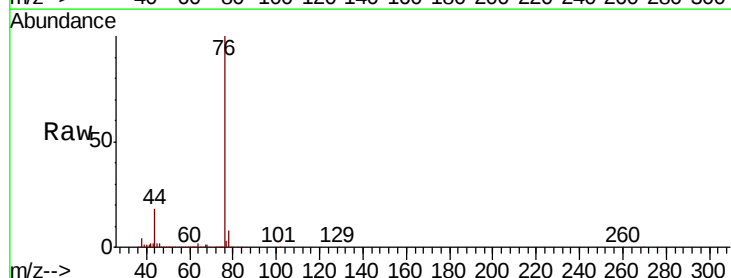
Instrument :
MSVOA_L
ClientSampleId :
249-BERRY

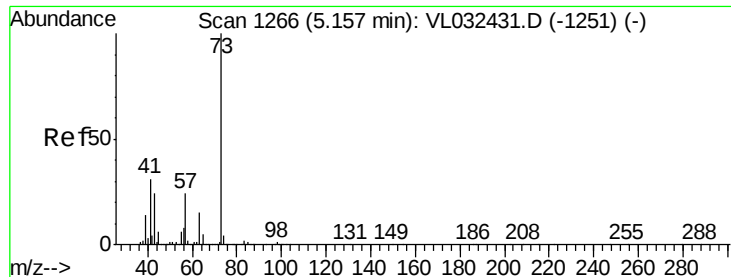
Tgt Ion: 57 Resp: 974731
Ion Ratio Lower Upper
57 100
41 140.2 69.0 103.4#
43 83.4 172.1 258.1#
56 71.4 42.2 63.2#



#27
Carbon Disulfide
Concen: 4.461 ppbv
RT: 4.66 min Scan# 535
Delta R.T. -0.01 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Tgt Ion: 76 Resp: 546116
Ion Ratio Lower Upper
76 100
44 21.6 14.0 21.0#
78 8.8 7.5 11.3





#28

Methyl tert-Butyl Ether

Concen: 0.176 ppbv

RT: 5.30 min Scan# 735

Delta R.T. 0.14 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

ClientSampleId :

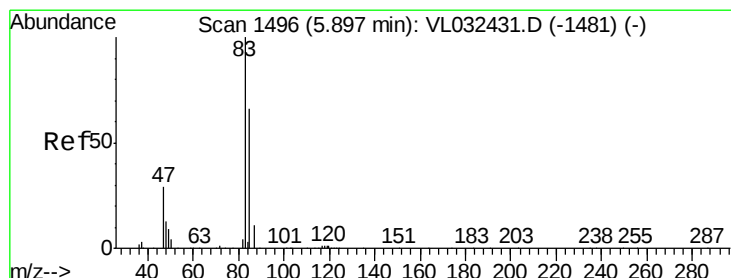
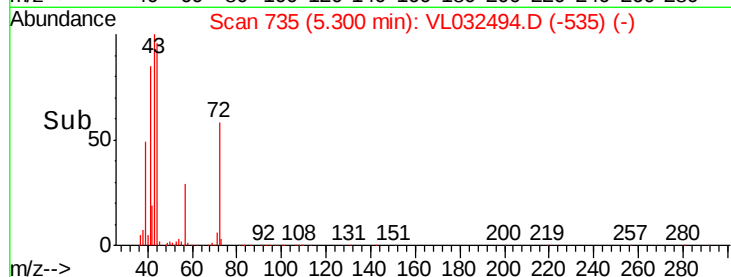
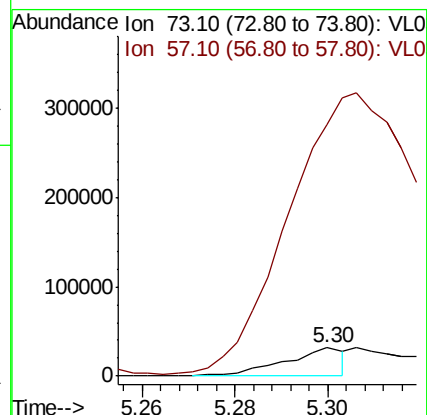
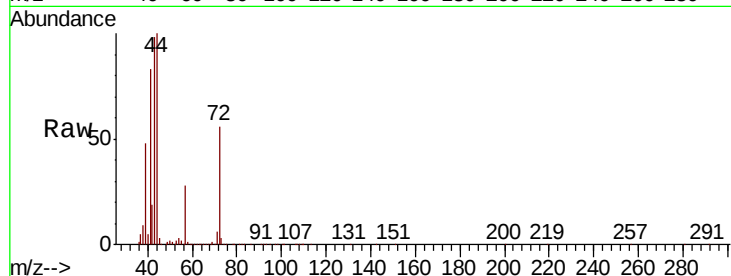
249-BERRY

Tgt Ion: 73 Resp: 28696

Ion Ratio Lower Upper

73 100

57 2365.7 19.3 28.9#



#29

Chloroform

Concen: 20.577 ppbv

RT: 5.92 min Scan# 928

Delta R.T. 0.02 min

Lab File: VL032494.D

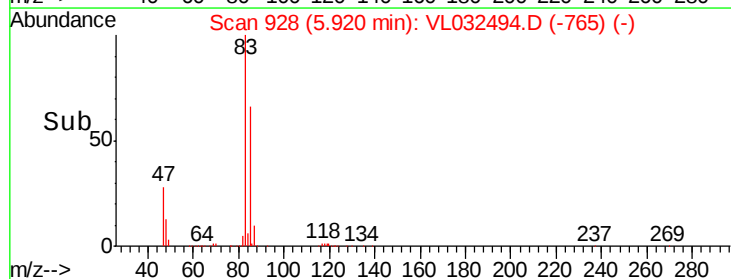
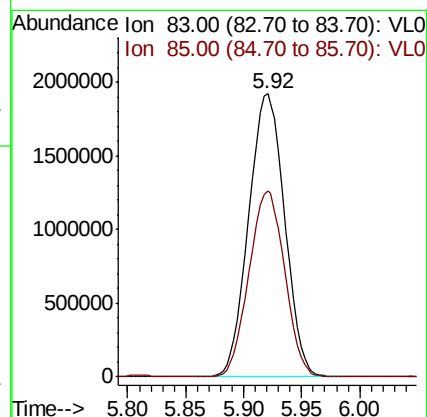
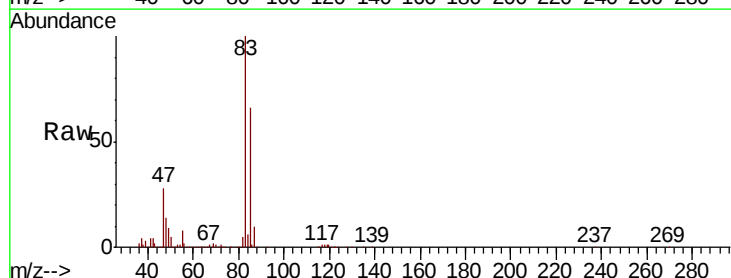
Acq: 11 Sep 2018 1:22

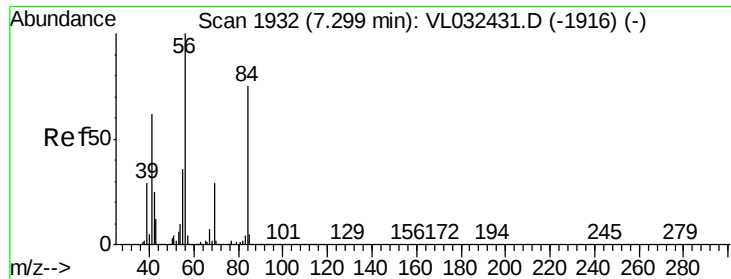
Tgt Ion: 83 Resp: 4160334

Ion Ratio Lower Upper

83 100

85 65.7 52.5 78.7

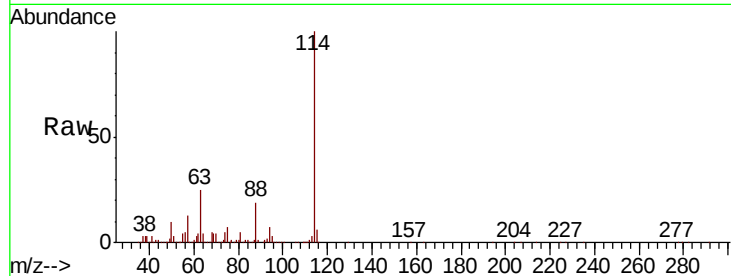




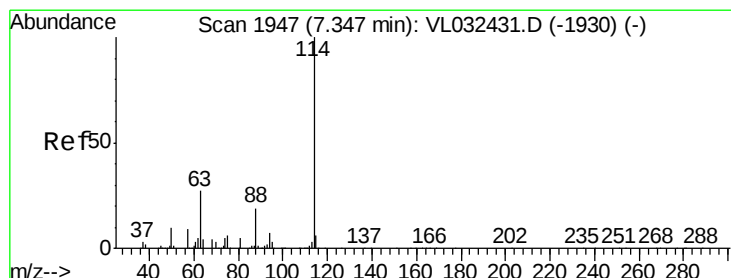
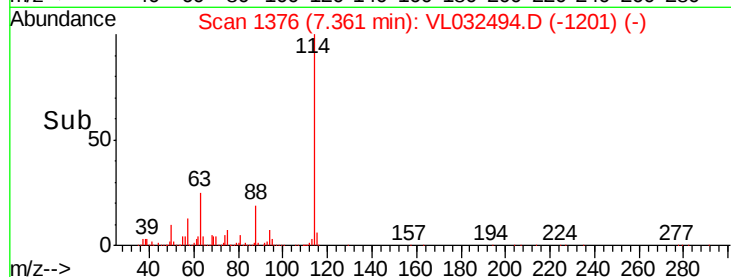
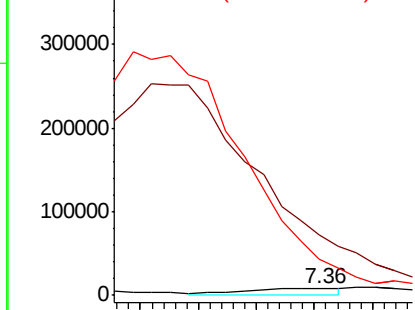
#30
Cyclohexane
Concen: 0.084 ppbv
RT: 7.36 min Scan# 1376
Delta R.T. 0.06 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Instrument :
MSVOA_L
ClientSampleId :
249-BERRY

Tgt Ion: 84 Resp: 8140
Ion Ratio Lower Upper
84 100
56 8810.3 113.5 170.3#
41 8442.2 68.1 102.1#

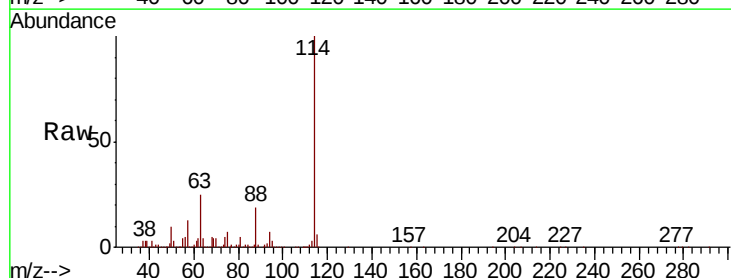


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

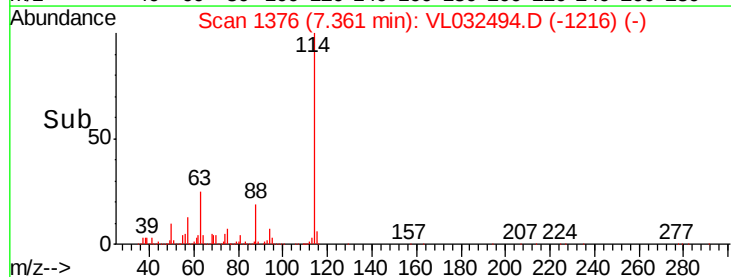
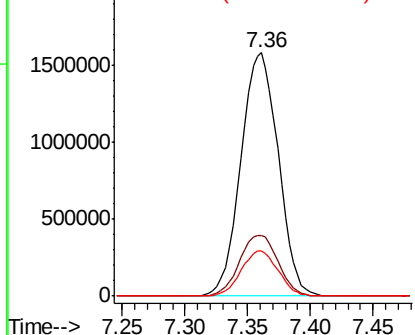


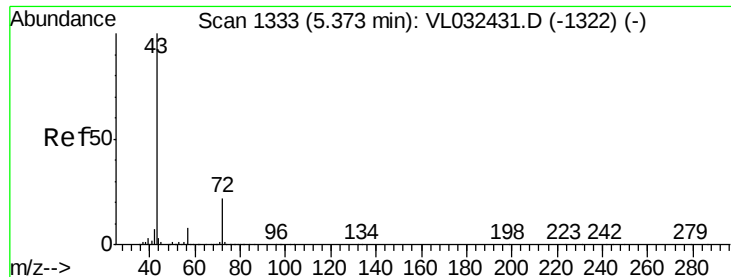
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.36 min Scan# 1376
Delta R.T. 0.01 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Tgt Ion: 114 Resp: 3270027
Ion Ratio Lower Upper
114 100
63 26.0 22.2 33.4
88 18.5 15.0 22.4



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

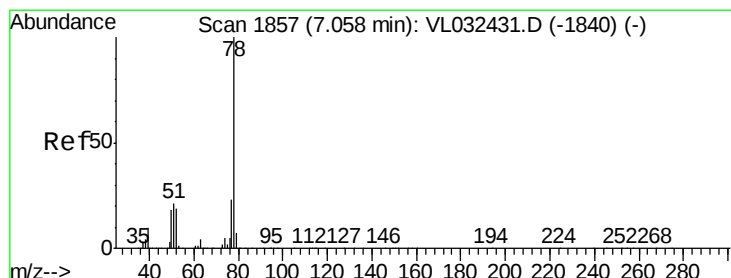
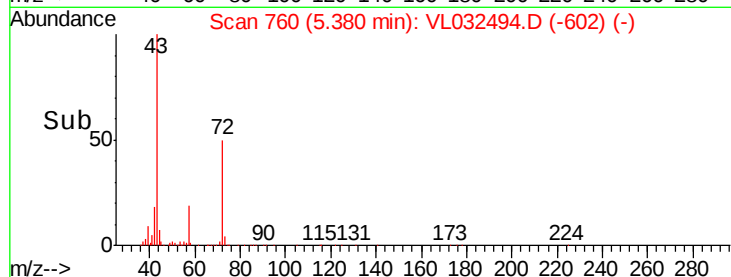
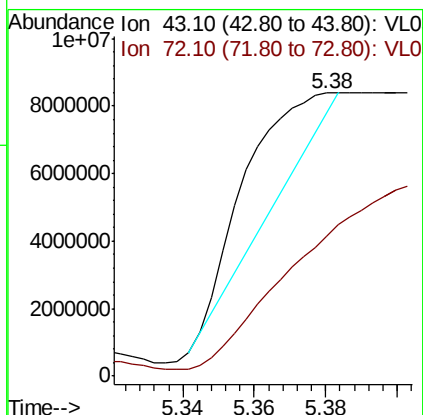
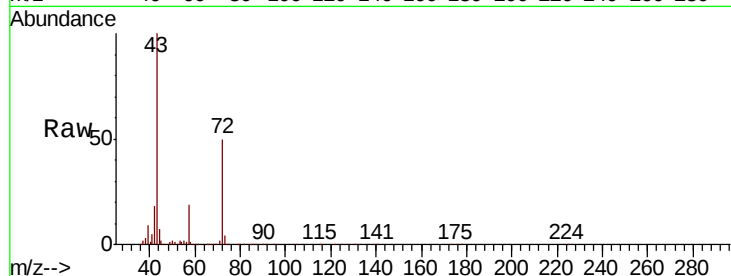




#34
2-Butanone
Concen: 20.134 ppbv
RT: 5.38 min Scan# 760
Delta R.T. 0.01 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

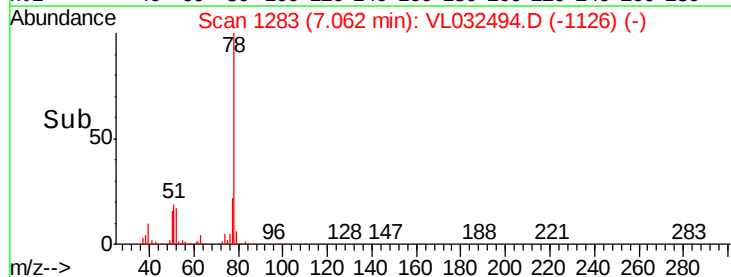
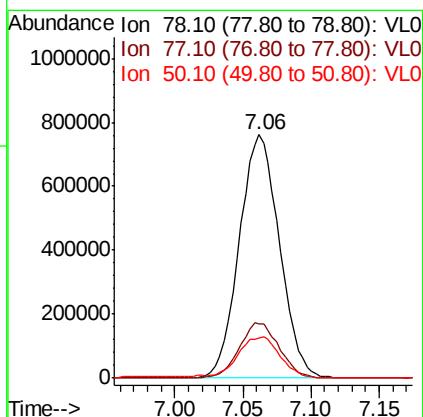
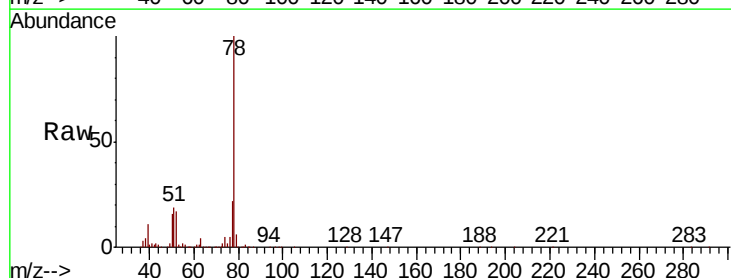
Instrument :
MSVOA_L
ClientSampleId :
249-BERRY

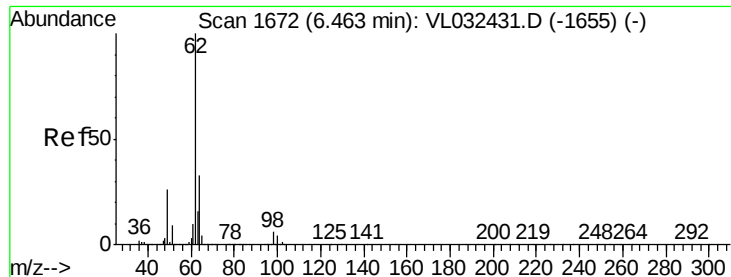
Tgt Ion: 43 Resp: 4373298
Ion Ratio Lower Upper
43 100
72 460.4 17.8 26.6#



#36
Benzene
Concen: 5.575 ppbv
RT: 7.06 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Tgt Ion: 78 Resp: 1551450
Ion Ratio Lower Upper
78 100
77 22.1 18.4 27.6
50 16.1 14.4 21.6

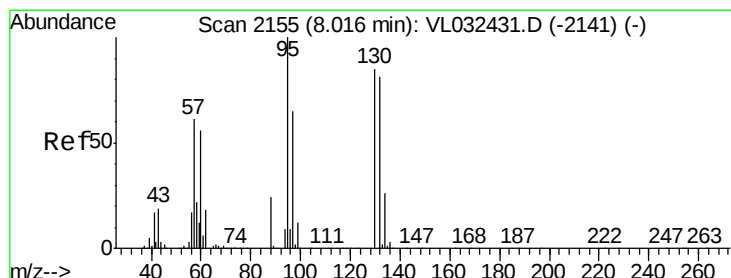
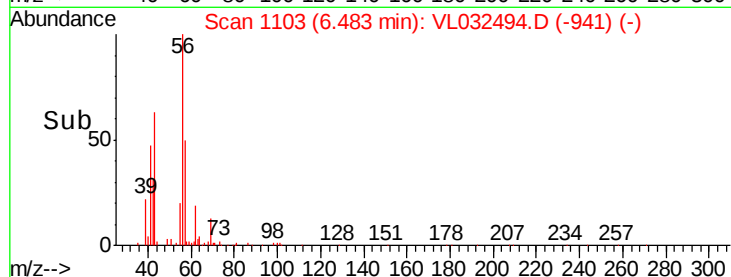
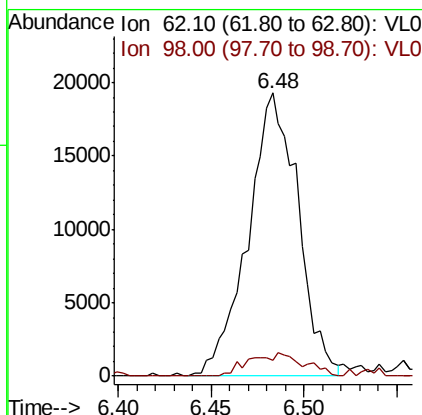
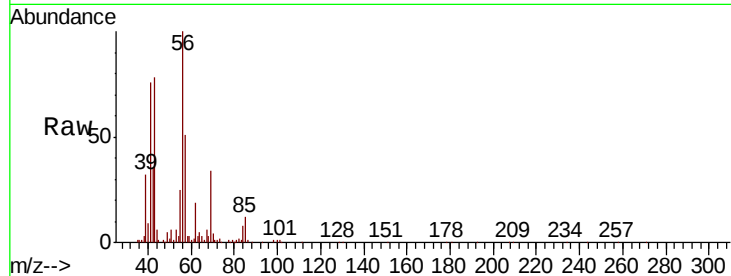




#37
 1,2-Dichloroethane
 Concen: 0.213 ppbv
 RT: 6.48 min Scan# 1103
 Delta R.T. 0.02 min
 Lab File: VL032494.D
 Acq: 11 Sep 2018 1:22

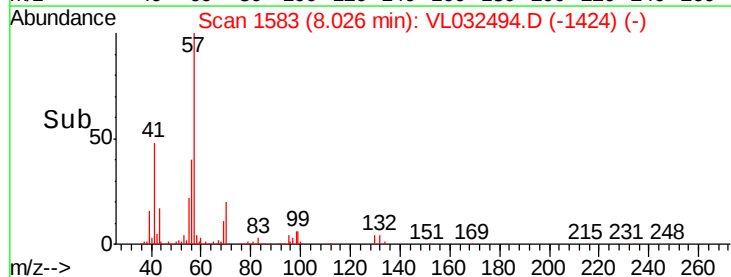
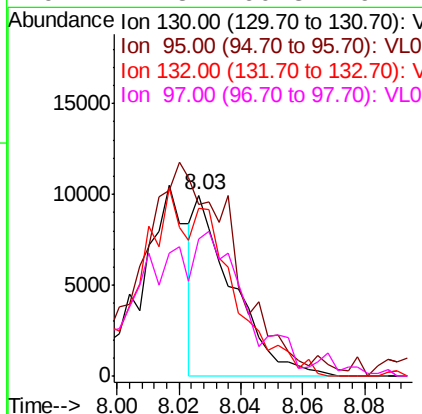
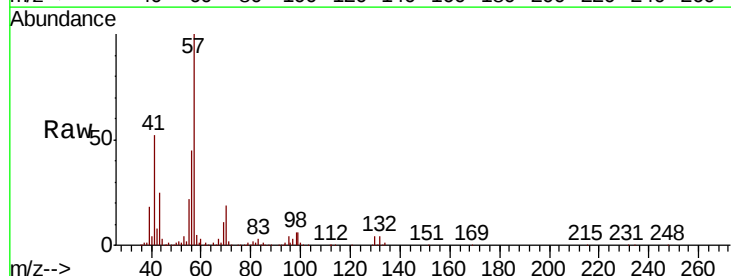
Instrument :
 MSVOA_L
 ClientSampleId :
 249-BERRY

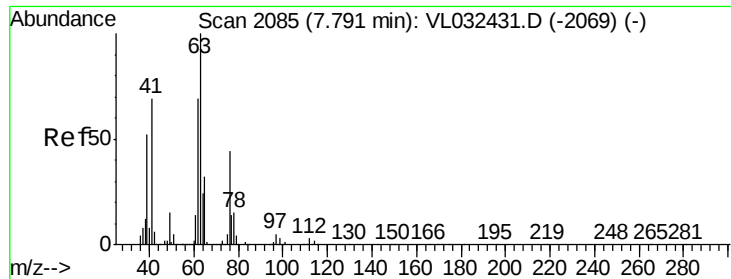
Tgt Ion: 62 Resp: 36332
 Ion Ratio Lower Upper
 62 100
 98 10.1 5.0 7.6#



#38
 Trichloroethene
 Concen: 0.081 ppbv
 RT: 8.03 min Scan# 1583
 Delta R.T. 0.01 min
 Lab File: VL032494.D
 Acq: 11 Sep 2018 1:22

Tgt Ion: 130 Resp: 8528
 Ion Ratio Lower Upper
 130 100
 95 91.5 94.2 141.4#
 132 96.7 76.2 114.4
 97 72.8 60.8 91.2





#39

1,2-Dichloropropane

Concen: 7.030 ppbv

RT: 7.36 min Scan# 1376

Delta R.T. -0.43 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

ClientSampleId :

249-BERRY

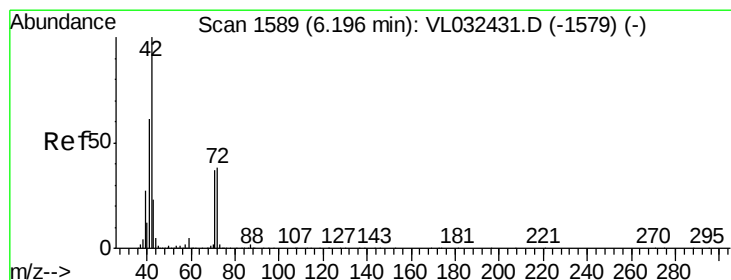
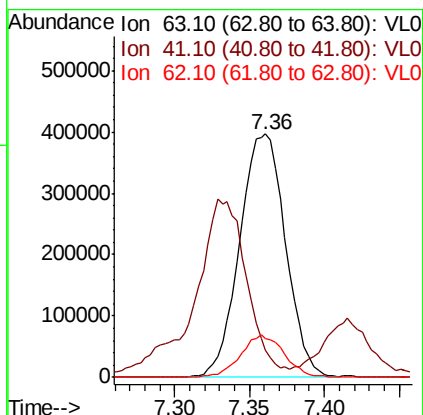
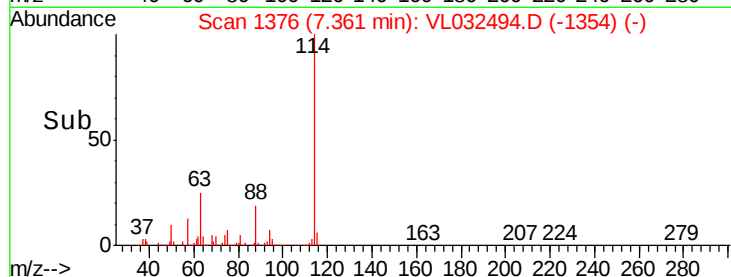
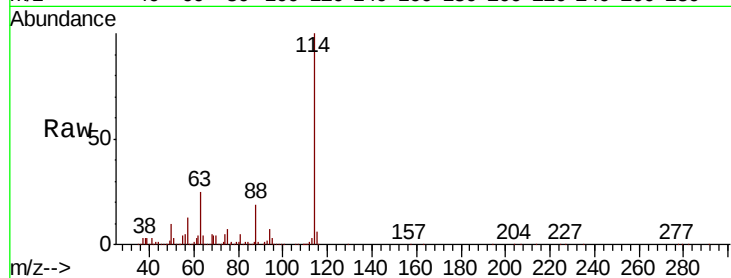
Tgt Ion: 63 Resp: 837043

Ion Ratio Lower Upper

63 100

41 0.0 55.4 83.0#

62 16.1 55.4 83.0#



#41

Tetrahydrofuran

Concen: 0.171 ppbv

RT: 6.20 min Scan# 1016

Delta R.T. 0.01 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

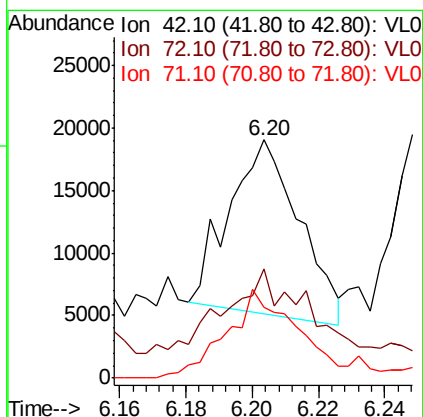
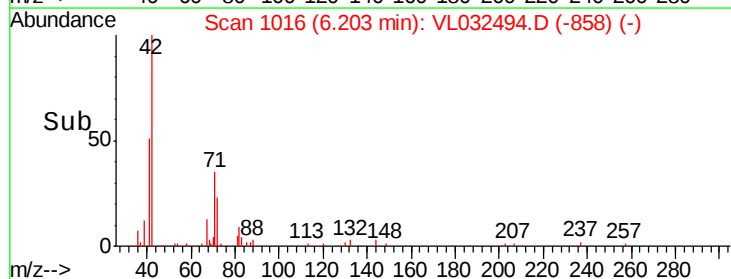
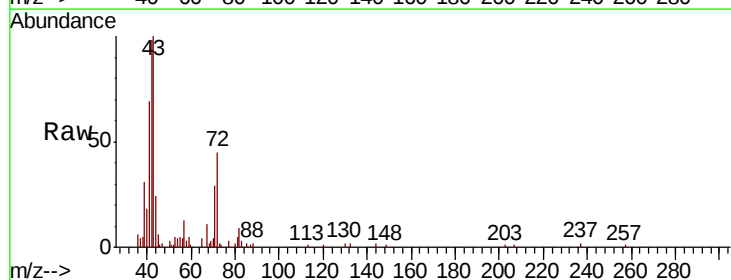
Tgt Ion: 42 Resp: 20277

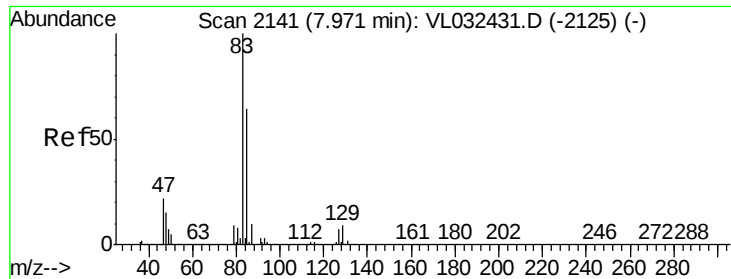
Ion Ratio Lower Upper

42 100

72 67.2 29.5 44.3#

71 57.4 28.3 42.5#





#42

Bromodichloromethane

Concen: 1.376 ppbv

RT: 7.99 min Scan# 1571

Delta R.T. 0.02 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

ClientSampleId :

249-BERRY

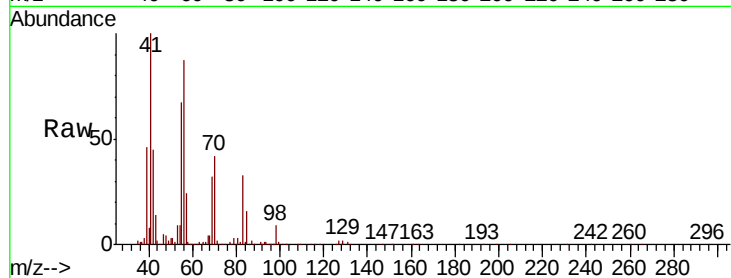
Tgt Ion: 83 Resp: 323685

Ion Ratio Lower Upper

83 100

85 50.1 51.1 76.7#

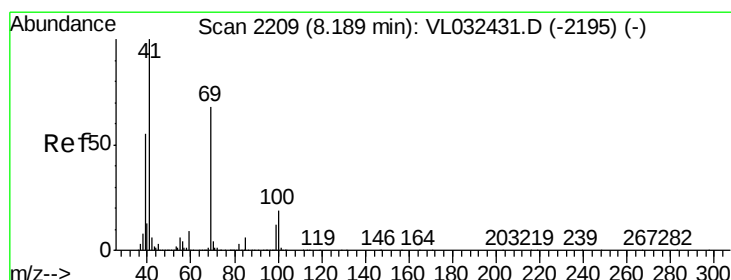
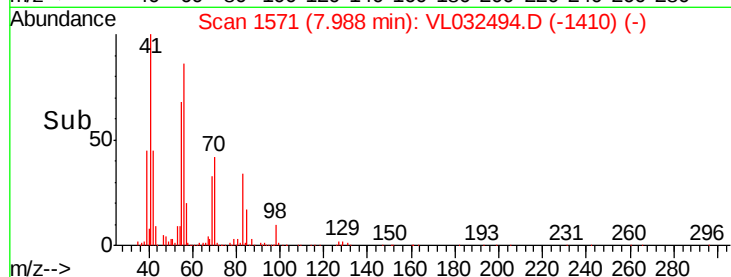
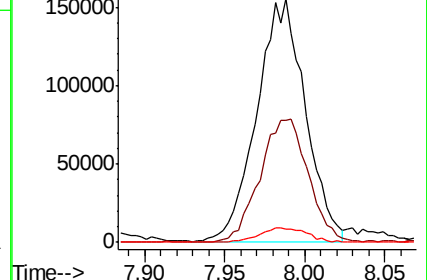
127 5.3 5.8 8.8#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.925 ppbv

RT: 8.23 min Scan# 1647

Delta R.T. 0.04 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

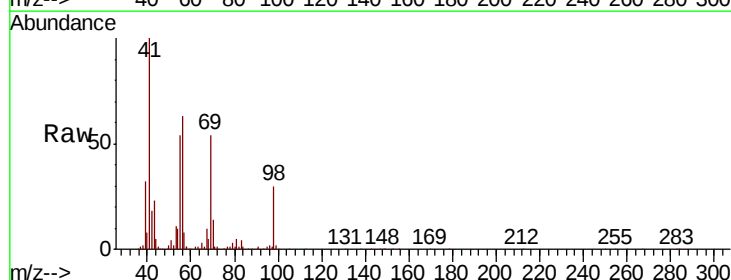
Tgt Ion: 69 Resp: 109203

Ion Ratio Lower Upper

69 100

41 213.9 117.1 175.7#

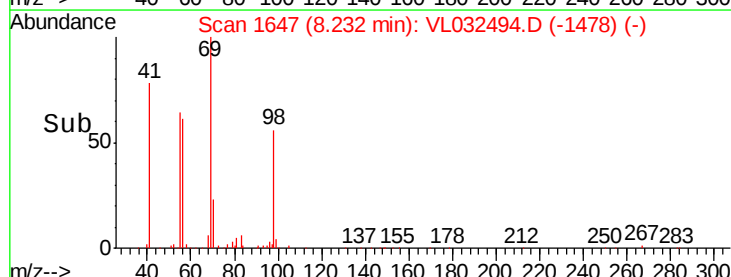
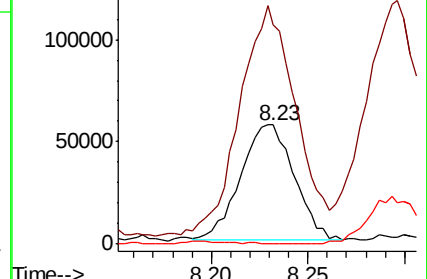
100 2.0 23.4 35.2#

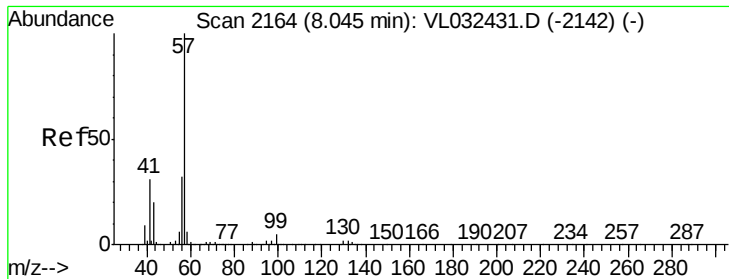


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0

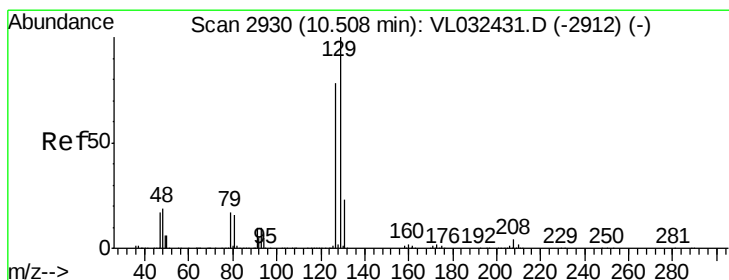
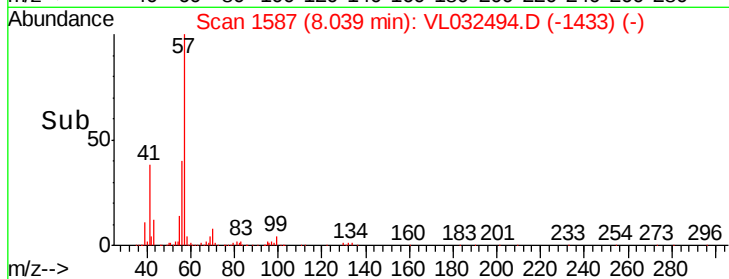
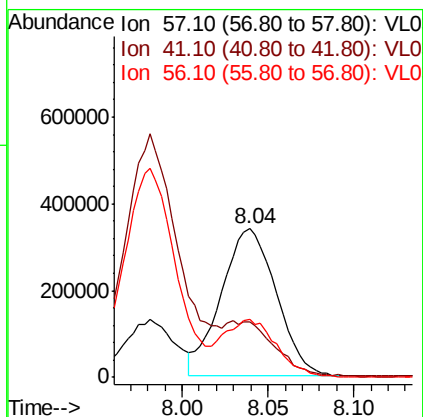
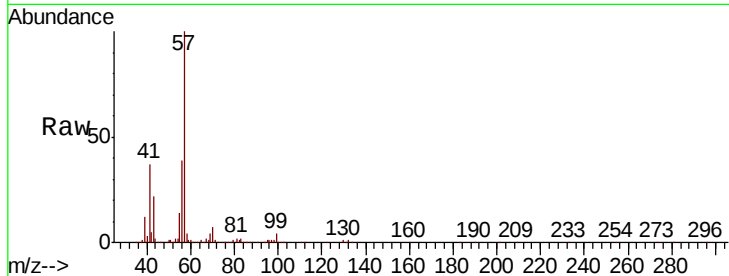




#44
 2,2,4-Trimethylpentane
 Concen: 1.399 ppbv
 RT: 8.04 min Scan# 1587
 Delta R.T. -0.01 min
 Lab File: VL032494.D
 Acq: 11 Sep 2018 1:22

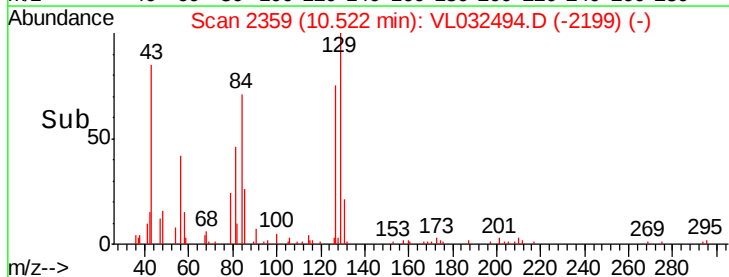
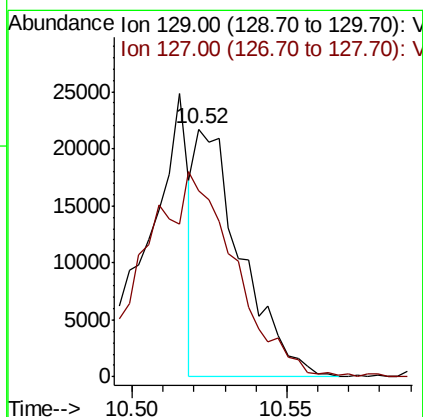
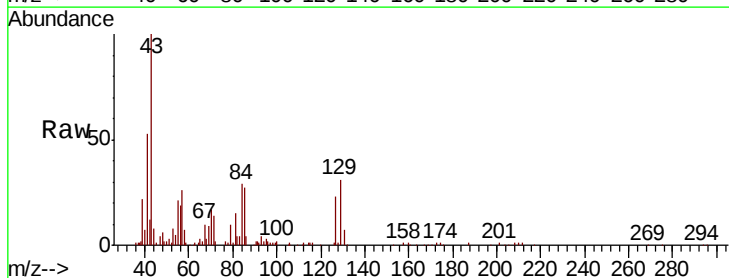
Instrument :
 MSVOA_L
 ClientSampleId :
 249-BERRY

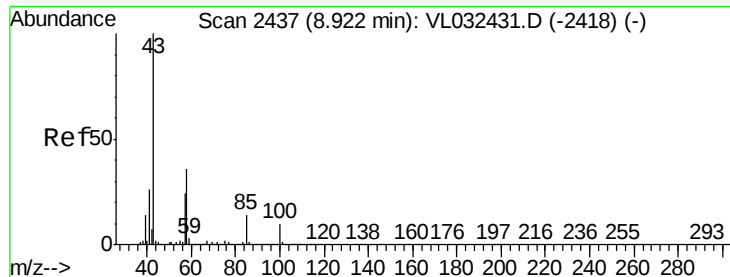
Tgt Ion: 57 Resp: 752465
 Ion Ratio Lower Upper
 57 100
 41 0.0 24.4 36.6#
 56 39.5 25.7 38.5#



#48
 Dibromochloromethane
 Concen: 0.129 ppbv
 RT: 10.52 min Scan# 2359
 Delta R.T. 0.01 min
 Lab File: VL032494.D
 Acq: 11 Sep 2018 1:22

Tgt Ion: 129 Resp: 22589
 Ion Ratio Lower Upper
 129 100
 127 164.5 39.5 118.3#

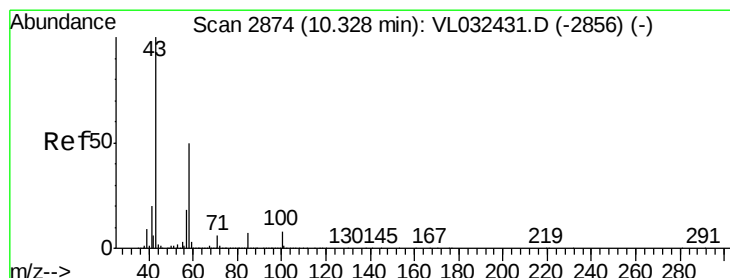
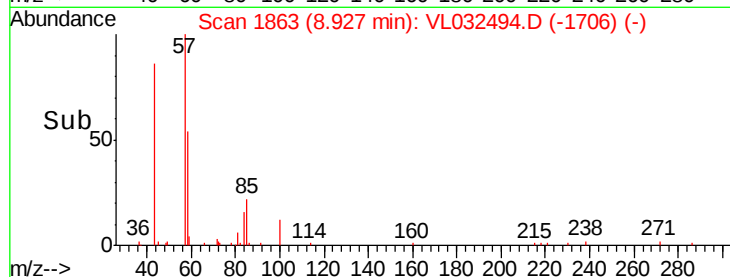
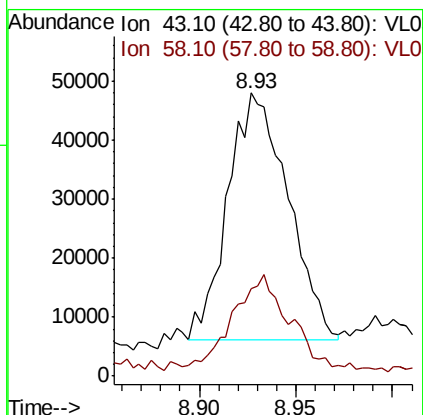
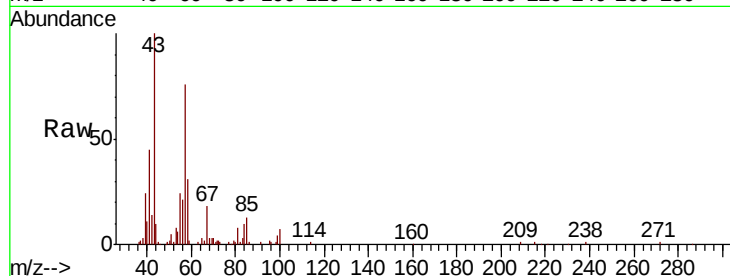




#50
 4-Methyl-2-Pentanone
 Concen: 0.278 ppbv
 RT: 8.93 min Scan# 1863
 Delta R.T. 0.00 min
 Lab File: VL032494.D
 Acq: 11 Sep 2018 1:22

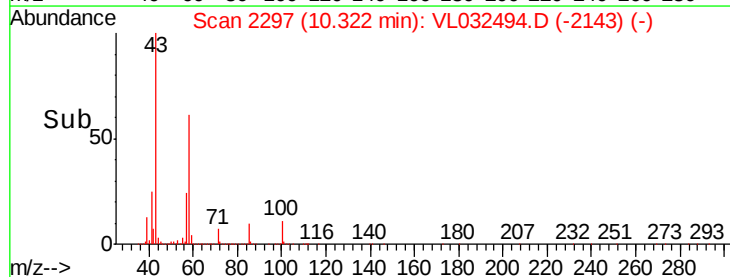
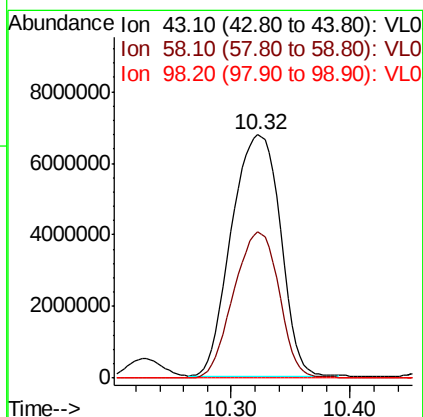
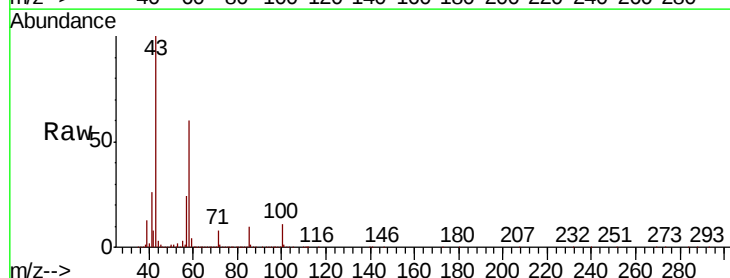
Instrument :
 MSVOA_L
 ClientSampleId :
 249-BERRY

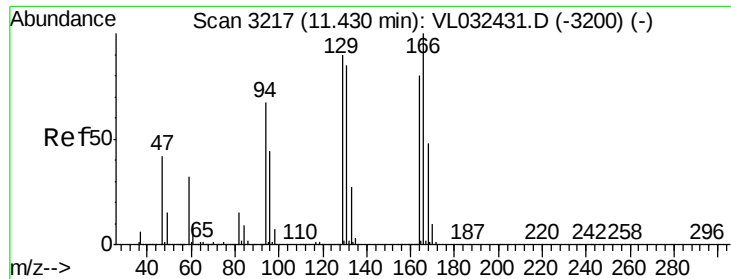
Tgt Ion: 43 Resp: 90860
 Ion Ratio Lower Upper
 43 100
 58 43.5 29.0 43.4#



#51
 2-Hexanone
 Concen: 91.233 ppbv
 RT: 10.32 min Scan# 2297
 Delta R.T. -0.01 min
 Lab File: VL032494.D
 Acq: 11 Sep 2018 1:22

Tgt Ion: 43 Resp: 19227785
 Ion Ratio Lower Upper
 43 100
 58 56.5 39.2 58.8
 98 0.1 0.4 0.6#





#52

Tetrachloroethene

Concen: 0.515 ppbv

RT: 11.43 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

ClientSampleId :

249-BERRY

Tgt Ion:164 Resp: 44418

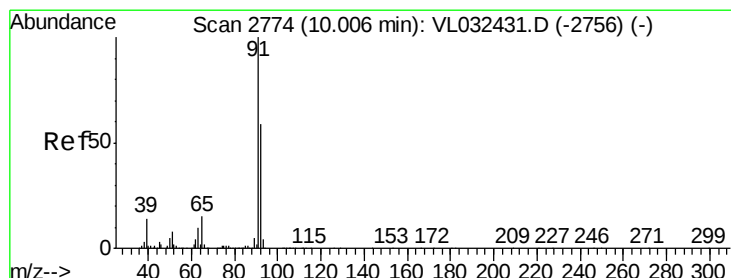
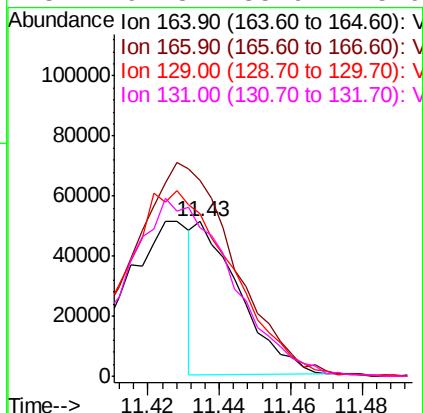
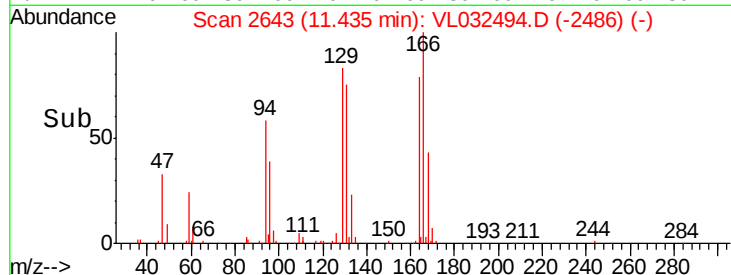
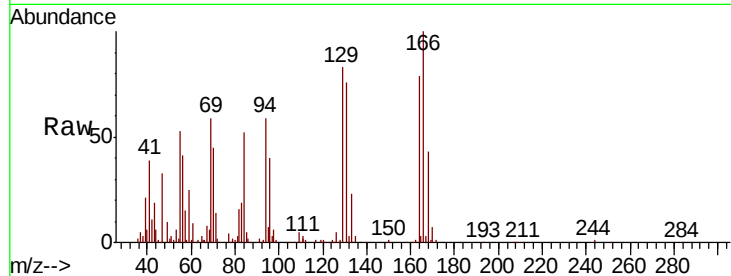
Ion Ratio Lower Upper

164 100

166 126.6 100.6 150.8

129 105.4 89.9 134.9

131 94.8 85.9 128.9



#53

Toluene

Concen: 4.698 ppbv

RT: 10.00 min Scan# 2198

Delta R.T. -0.00 min

Lab File: VL032494.D

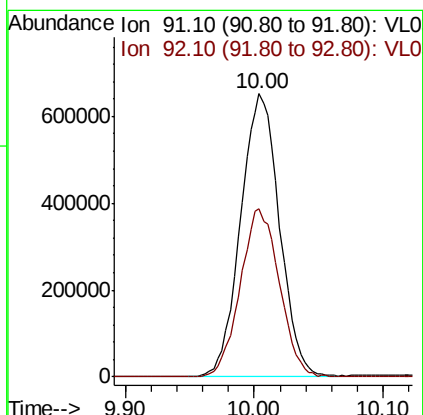
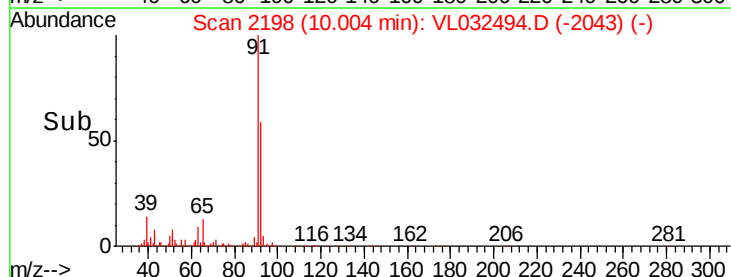
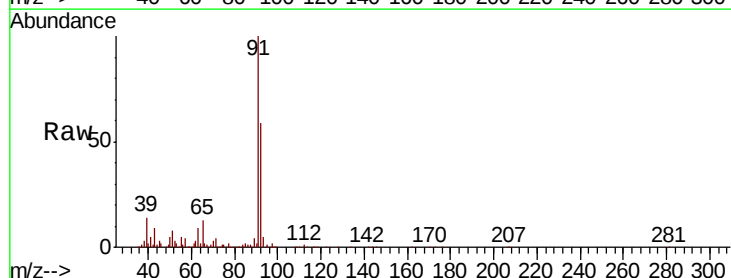
Acq: 11 Sep 2018 1:22

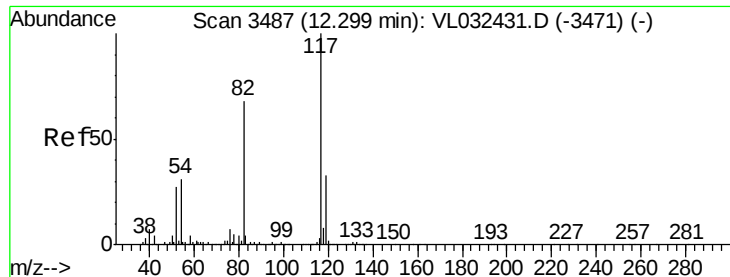
Tgt Ion: 91 Resp: 1366582

Ion Ratio Lower Upper

91 100

92 59.9 48.1 72.1

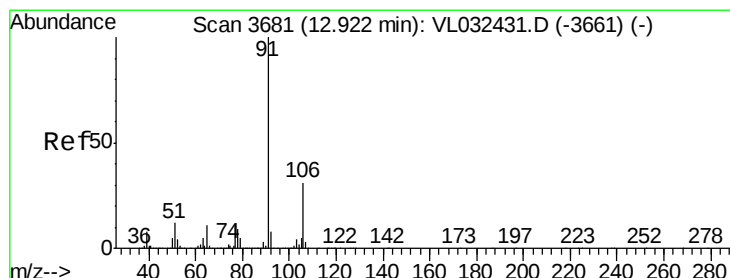
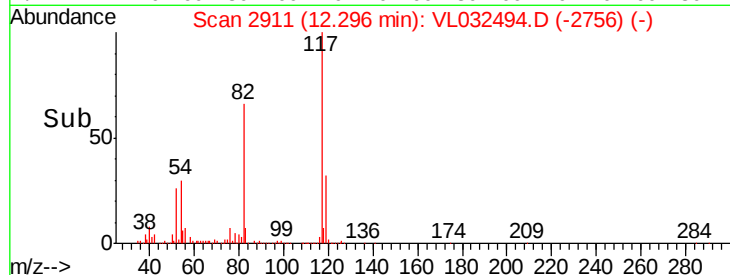
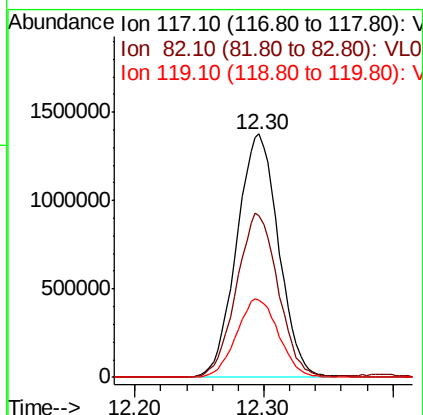
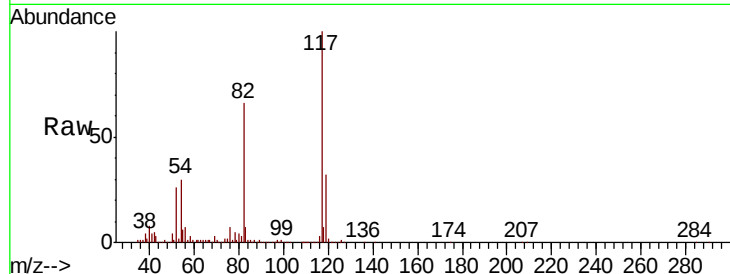




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.00 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

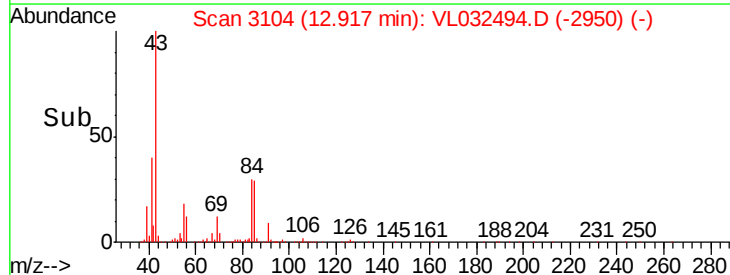
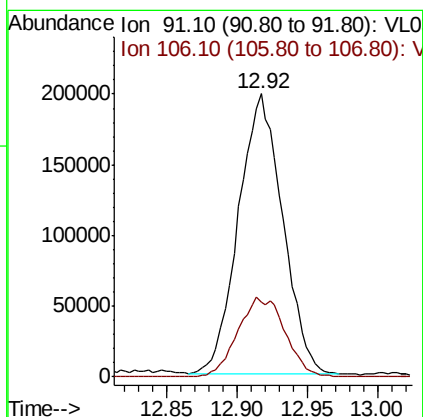
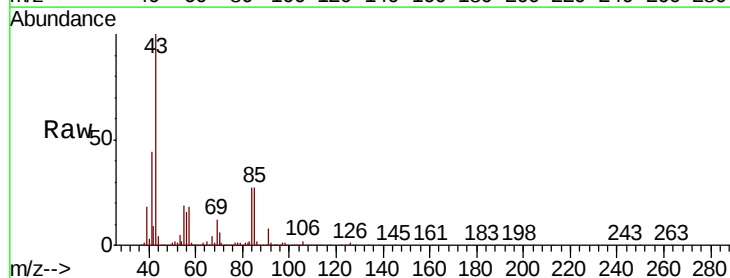
Instrument :
MSVOA_L
ClientSampleId :
249-BERRY

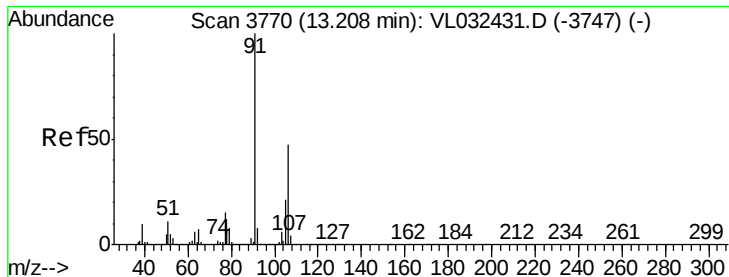
Tgt Ion: 117 Resp: 3103131
Ion Ratio Lower Upper
117 100
82 67.2 53.0 79.6
119 32.7 45.9 68.9#



#58
Ethyl Benzene
Concen: 1.175 ppbv
RT: 12.92 min Scan# 3104
Delta R.T. -0.01 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Tgt Ion: 91 Resp: 436404
Ion Ratio Lower Upper
91 100
106 26.9 24.8 37.2





#59

m/p-Xylene

Concen: 4.625 ppbv

RT: 13.17 min Scan# 3184

Delta R.T. -0.03 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

ClientSampleId :

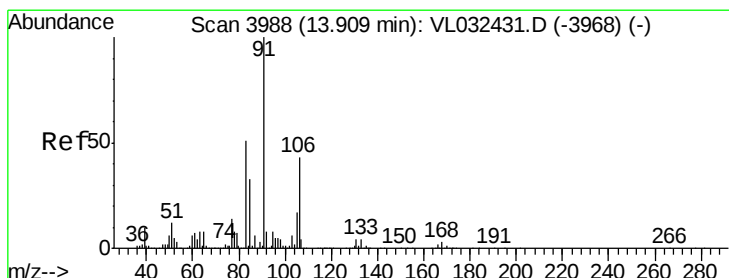
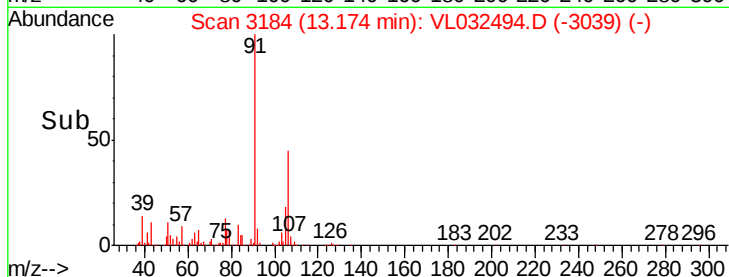
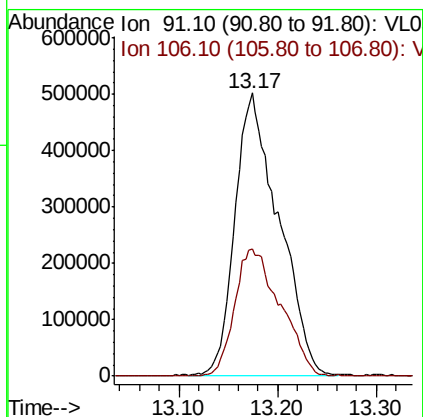
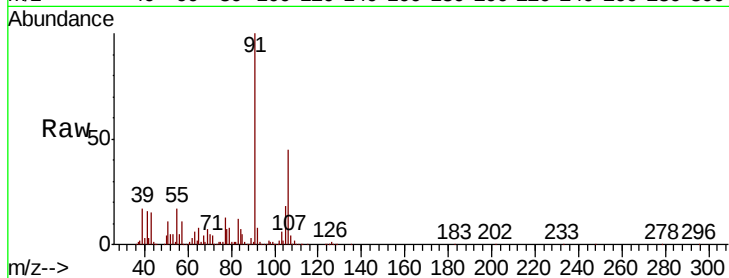
249-BERRY

Tgt Ion: 91 Resp: 1531328

Ion Ratio Lower Upper

91 100

106 47.2 36.6 55.0



#60

o-Xylene

Concen: 2.256 ppbv

RT: 13.90 min Scan# 3409

Delta R.T. -0.01 min

Lab File: VL032494.D

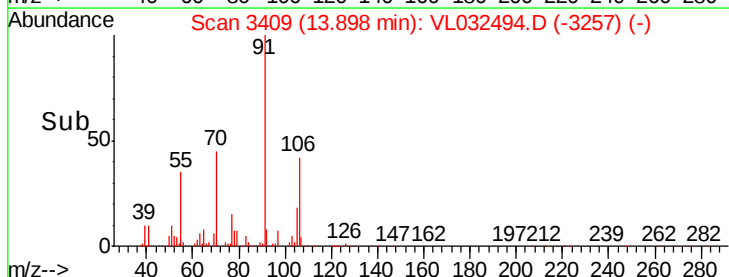
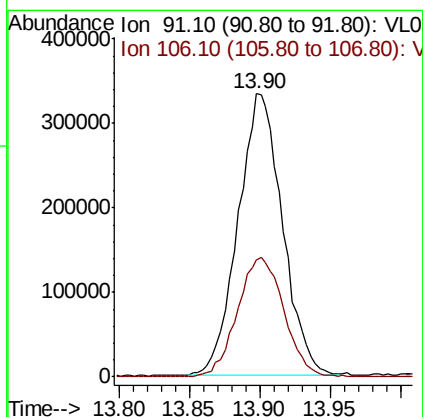
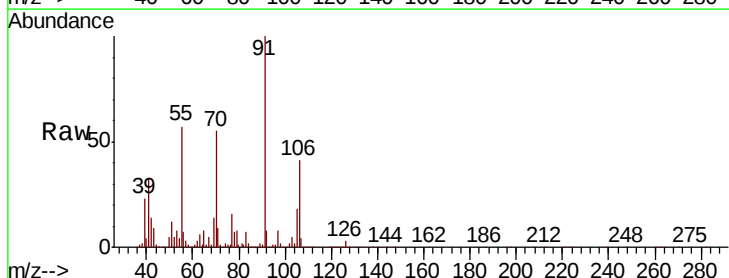
Acq: 11 Sep 2018 1:22

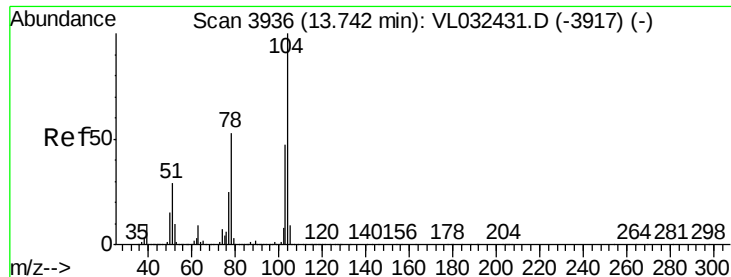
Tgt Ion: 91 Resp: 733804

Ion Ratio Lower Upper

91 100

106 44.4 21.9 65.7





#61

Styrene

Concen: 3.733 ppbv

RT: 13.74 min Scan# 3359

Delta R.T. -0.01 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

ClientSampleId :

249-BERRY

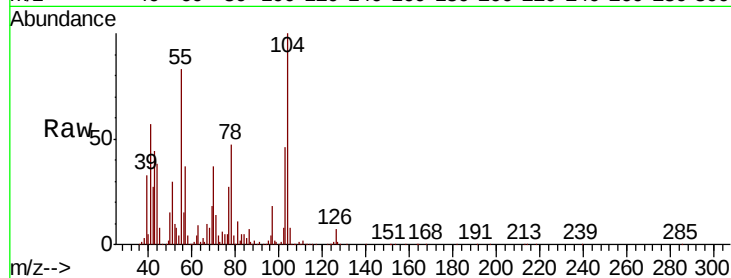
Tgt Ion:104 Resp: 786011

Ion Ratio Lower Upper

104 100

78 49.7 41.8 62.8

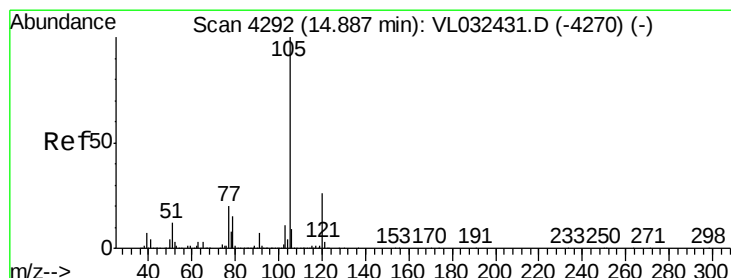
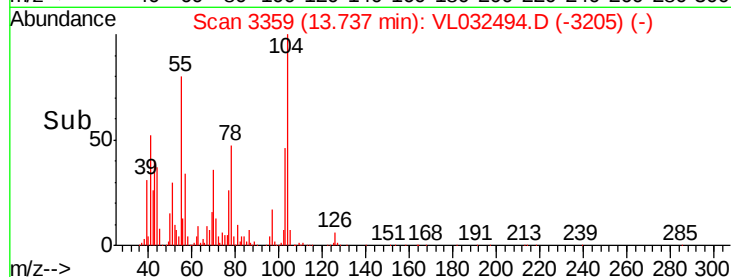
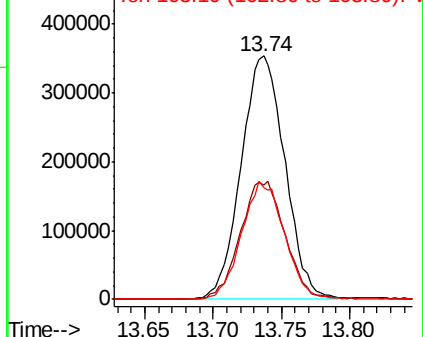
103 47.6 38.0 57.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 1.551 ppbv

RT: 14.88 min Scan# 3713

Delta R.T. -0.01 min

Lab File: VL032494.D

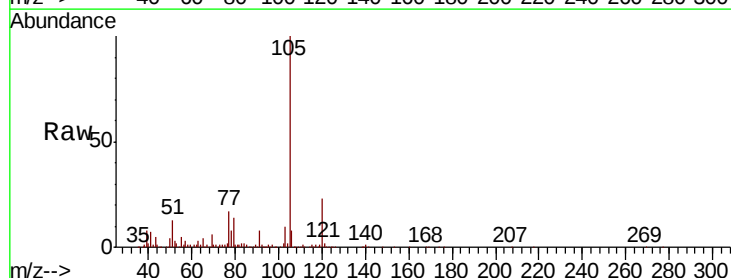
Acq: 11 Sep 2018 1:22

Tgt Ion:105 Resp: 709142

Ion Ratio Lower Upper

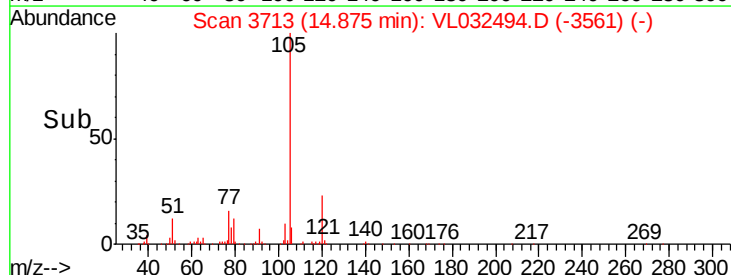
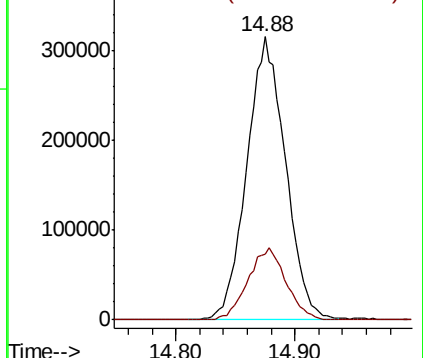
105 100

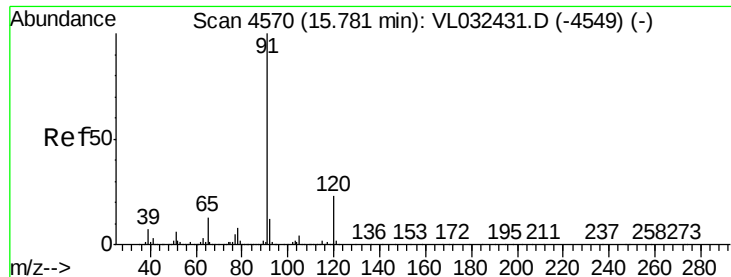
120 25.1 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.182 ppbv

RT: 15.77 min Scan# 3992

Delta R.T. -0.01 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

ClientSampleId :

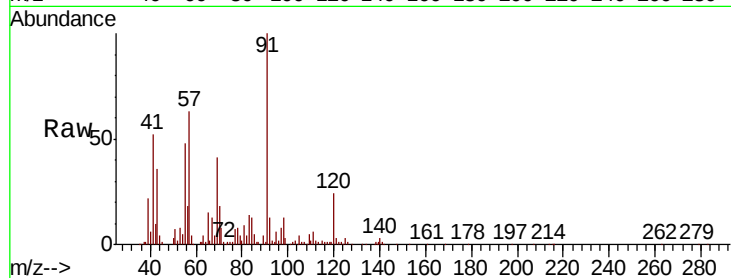
249-BERRY

Tgt Ion:120 Resp: 21791

Ion Ratio Lower Upper

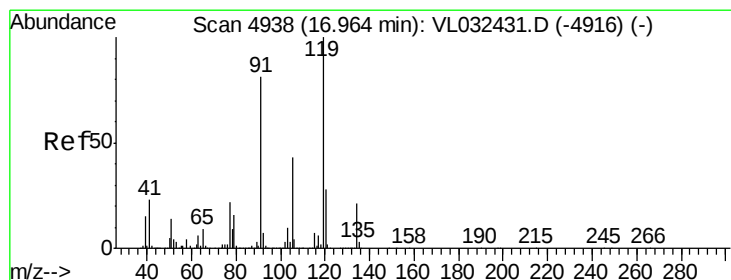
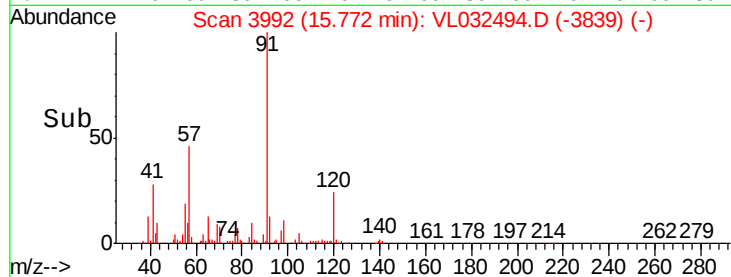
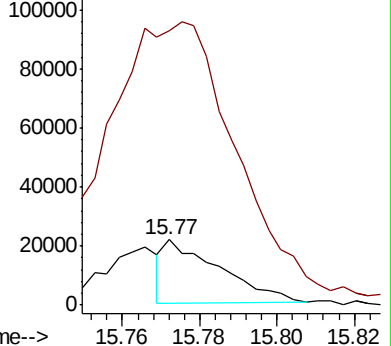
120 100

91 1086.8 381.8 572.6#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.114 ppbv

RT: 16.98 min Scan# 4367

Delta R.T. 0.01 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

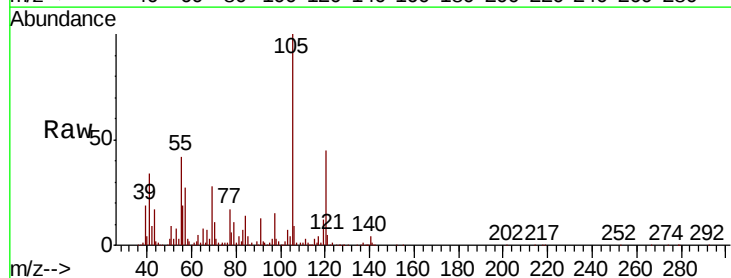
Tgt Ion:119 Resp: 44907

Ion Ratio Lower Upper

119 100

91 210.2 66.5 99.7#

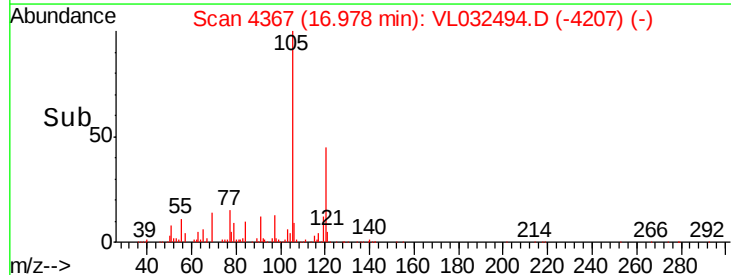
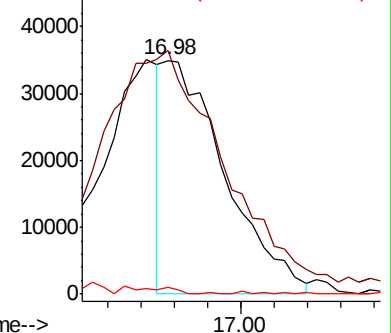
134 2.9 16.0 24.0#

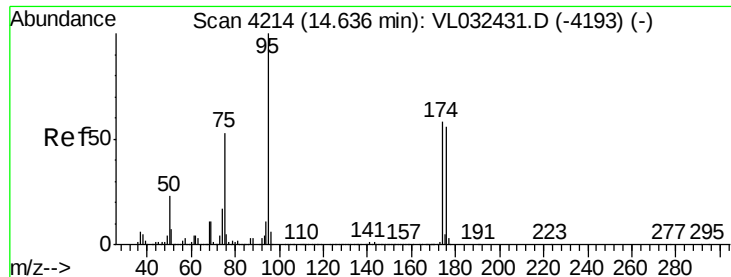


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

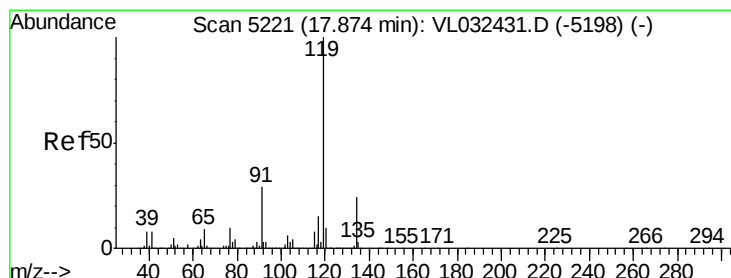
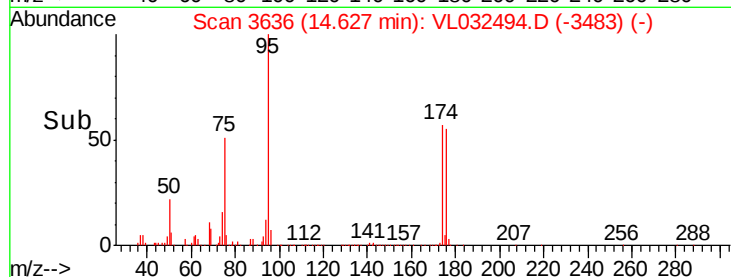
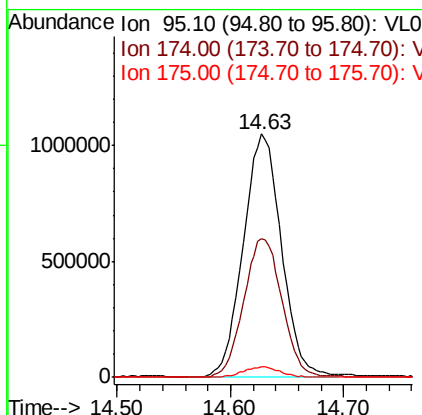
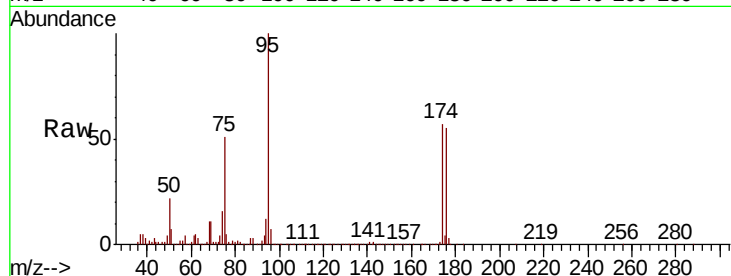




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.686 ppbv
 RT: 14.63 min Scan# 3636
 Delta R.T. -0.01 min
 Lab File: VL032494.D
 Acq: 11 Sep 2018 1:22

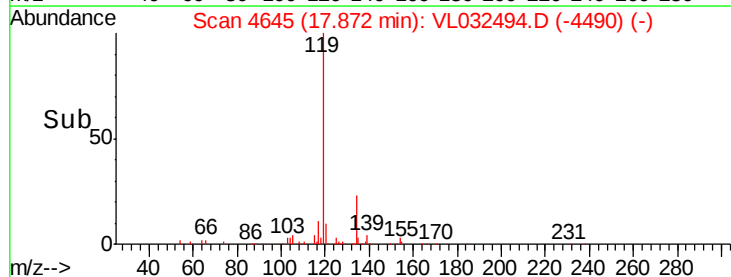
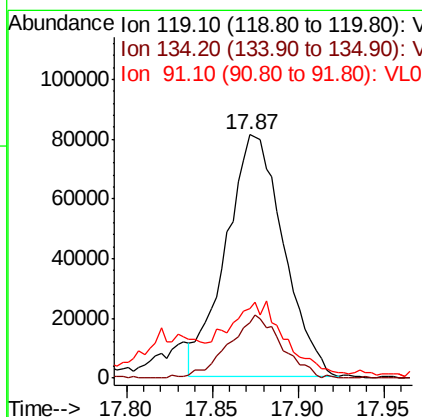
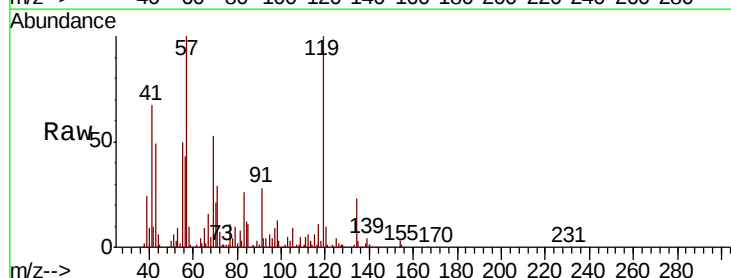
Instrument :
 MSVOA_L
 ClientSampleId :
 249-BERRY

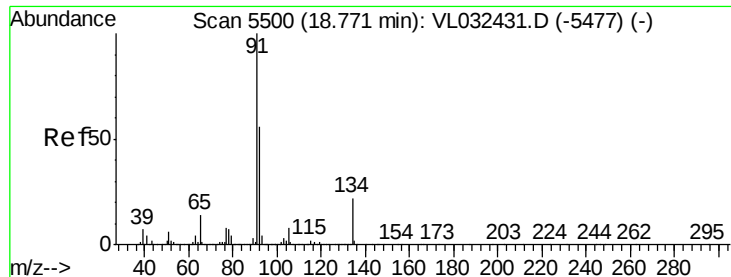
Tgt Ion: 95 Resp: 2461772
 Ion Ratio Lower Upper
 95 100
 174 57.9 46.3 69.5
 175 4.3 3.4 5.0



#69
 p-Isopropyltoluene
 Concen: 0.411 ppbv
 RT: 17.87 min Scan# 4645
 Delta R.T. -0.00 min
 Lab File: VL032494.D
 Acq: 11 Sep 2018 1:22

Tgt Ion: 119 Resp: 188810
 Ion Ratio Lower Upper
 119 100
 134 24.1 20.4 30.6
 91 45.9 23.4 35.2#

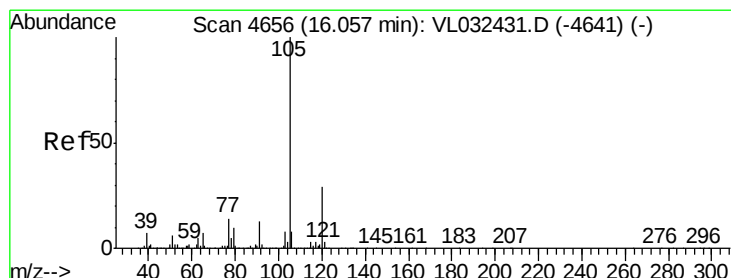
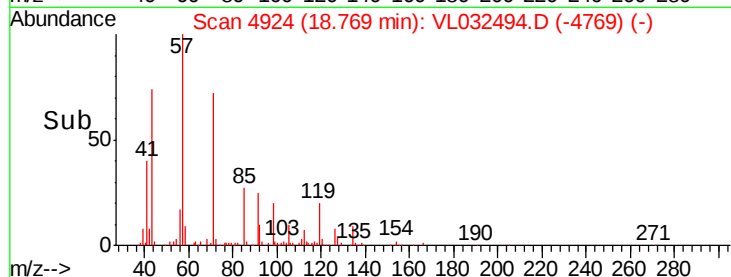
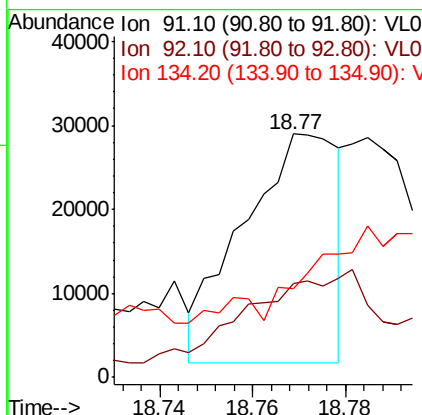
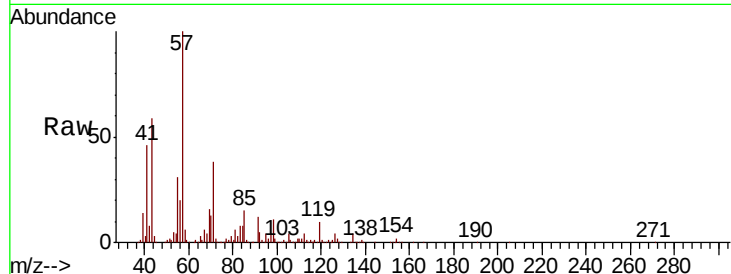




#70
n-Butylbenzene
Concen: 0.075 ppbv
RT: 18.77 min Scan# 4924
Delta R.T. -0.00 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

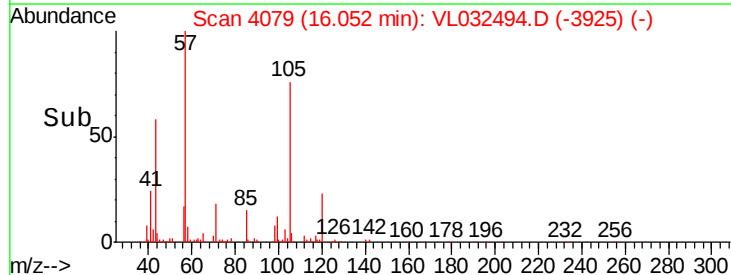
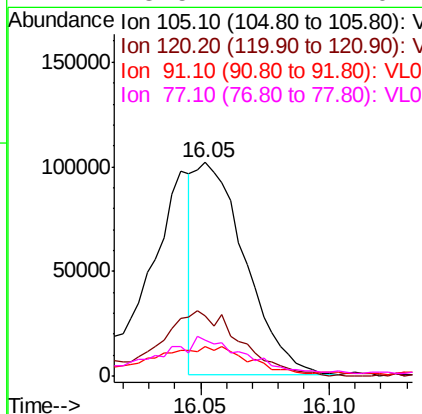
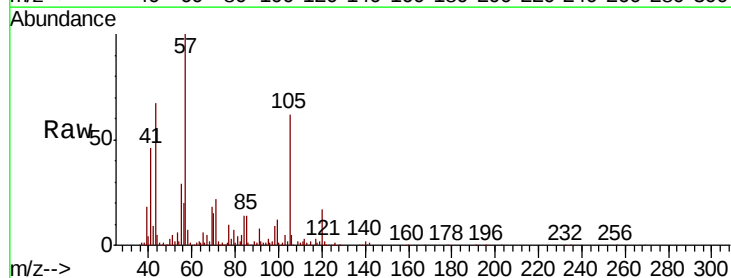
Instrument :
MSVOA_L
ClientSampleId :
249-BERRY

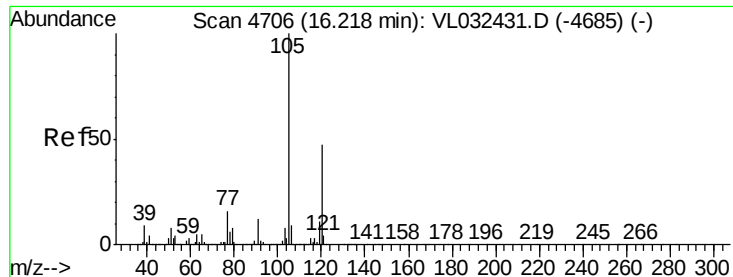
Tgt Ion: 91 Resp: 38814
Ion Ratio Lower Upper
91 100
92 0.0 43.8 65.8#
134 0.0 17.4 26.0#



#72
4-Ethyltoluene
Concen: 0.387 ppbv
RT: 16.05 min Scan# 4079
Delta R.T. -0.01 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Tgt Ion: 105 Resp: 137392
Ion Ratio Lower Upper
105 100
120 48.1 23.5 35.3#
91 25.0 10.2 15.2#
77 28.5 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.740 ppbv

RT: 16.21 min Scan# 4129

Delta R.T. -0.01 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

ClientSampleId :

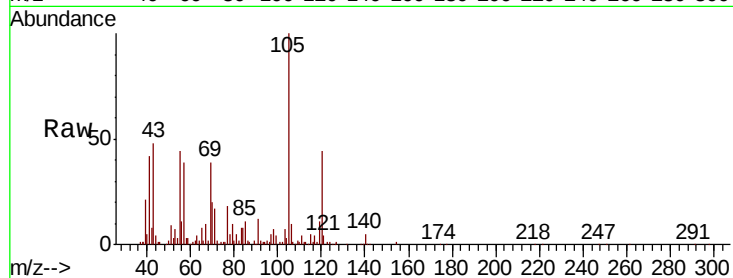
249-BERRY

Tgt Ion:105 Resp: 263258

Ion Ratio Lower Upper

105 100

120 43.9 37.9 56.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.21

120000

100000

80000

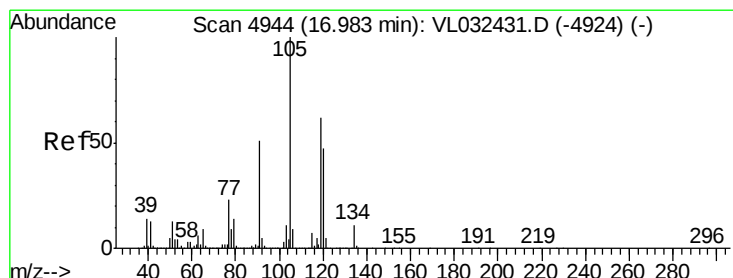
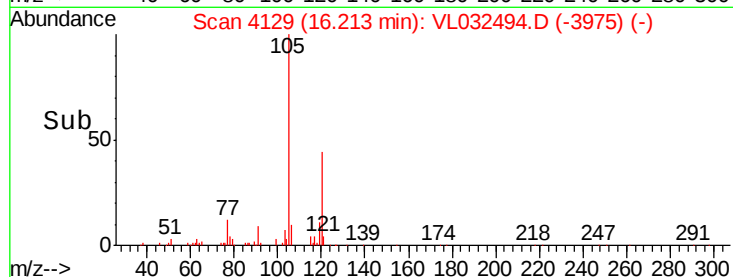
60000

40000

20000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 1.907 ppbv

RT: 16.97 min Scan# 4366

Delta R.T. -0.01 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Tgt Ion:105 Resp: 741573

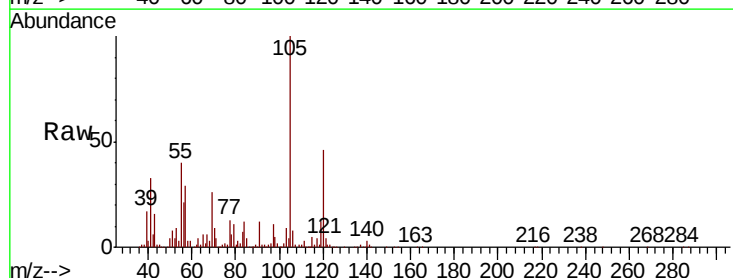
Ion Ratio Lower Upper

105 100

120 45.6 37.8 56.8

91 11.6 41.4 62.0#

77 12.8 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

16.97

400000

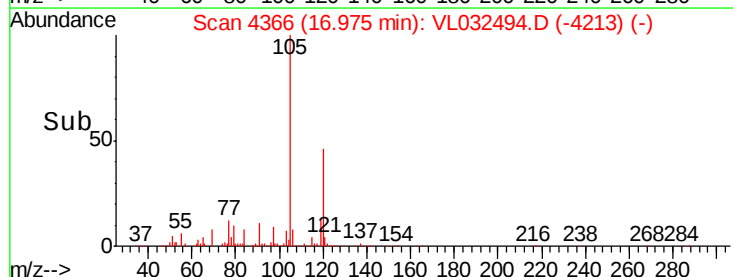
300000

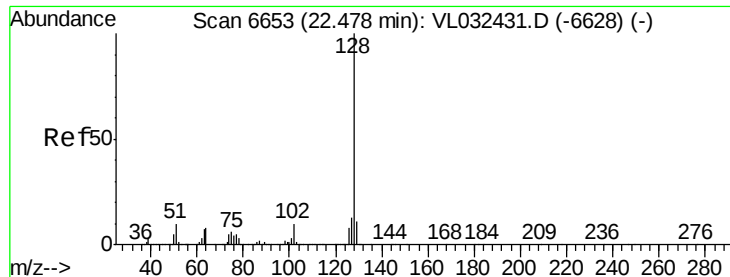
200000

100000

0

Time-->





#79

Naphthalene

Concen: 0.180 ppbv

RT: 22.48 min Scan# 6078

Delta R.T. 0.00 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

ClientSampleId :

249-BERRY

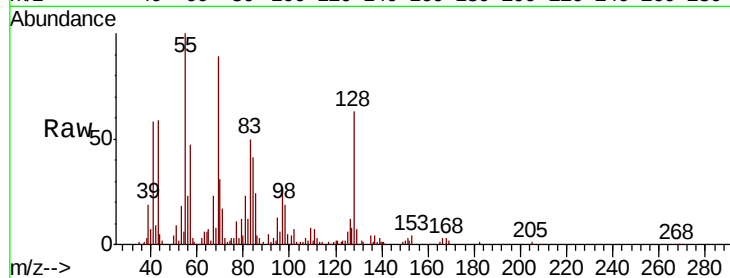
Tgt Ion:128 Resp: 57015

Ion Ratio Lower Upper

128 100

127 10.4 10.2 15.2

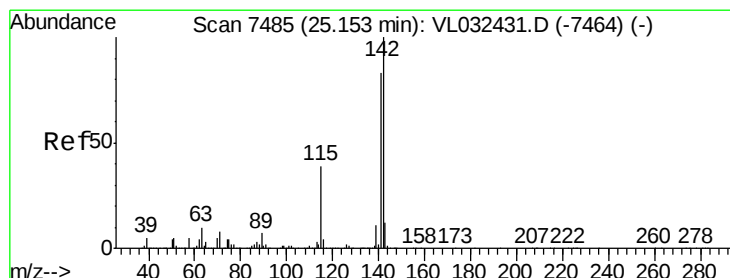
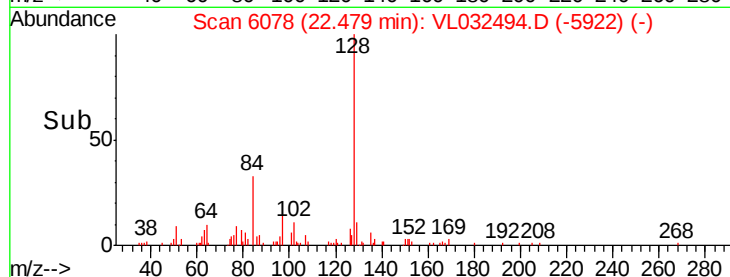
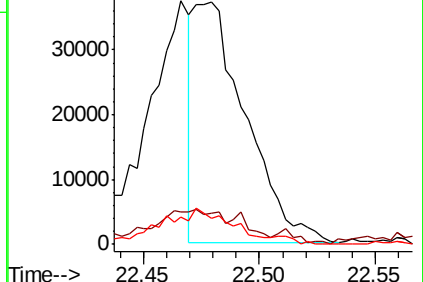
129 11.1 8.5 12.7



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: 0.207 ppbv

RT: 25.16 min Scan# 6911

Delta R.T. 0.00 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

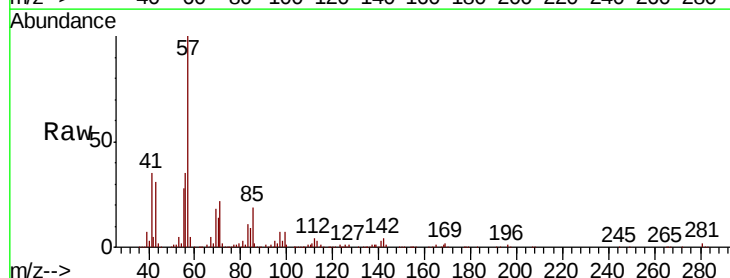
Tgt Ion:142 Resp: 17426

Ion Ratio Lower Upper

142 100

141 88.8 67.0 100.6

115 49.2 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

