

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091018\
 Data File : VL032493.D
 Acq On : 11 Sep 2018 00:41
 Operator : SY/AP
 Sample : J4820-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 245-BERRYDL

Manual Integrations
 APPROVED

MMDadoda
 9/12/2018 3:59:43 PM

Quant Time: Sep 11 16:07:53 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

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	1508561	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3560374	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.29	117	3493938	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.62	95	2727508	10.51	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.10%

Target Compounds

						Ovalue
9) Propene	3.06	41	749070	13.60	ppbv	96
10) Heptane	8.29	43	174774	0.88	ppbv	97
13) Ethanol	3.69	45	100500	5.85	ppbv	95
15) Acetone	3.93	43	1381441	10.17	ppbv #	60
26) Hexane	5.82	57	229473	1.60	ppbv #	13
27) Carbon Disulfide	4.66	76	32505	0.25	ppbv #	69
29) Chloroform	5.89	83	167819	0.77	ppbv	98
30) Cyclohexane	7.29	84	120454	1.15	ppbv #	85
34) 2-Butanone	5.36	43	11055958	46.75	ppbv	94
36) Benzene	7.05	78	429428	1.42	ppbv	94
44) 2,2,4-Trimethylpentane	8.04	57	257295	0.44	ppbv #	3
51) 2-Hexanone	10.31	43	2484030	10.83	ppbv #	96
53) Toluene	9.99	91	322435	1.02	ppbv	97
58) Ethyl Benzene	12.91	91	151702	0.36	ppbv	95
59) m/p-Xylene	13.16	91	268292m	0.72	ppbv	
60) o-Xylene	13.90	91	104965m	0.29	ppbv	
61) Styrene	13.73	104	92823m	0.39	ppbv	
62) Isopropylbenzene	14.87	105	115513	0.22	ppbv	100
73) 1,3,5-Trimethylbenzene	16.20	105	76570m	0.19	ppbv	
74) 1,2,4-Trimethylbenzene	16.97	105	139434m	0.32	ppbv	

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

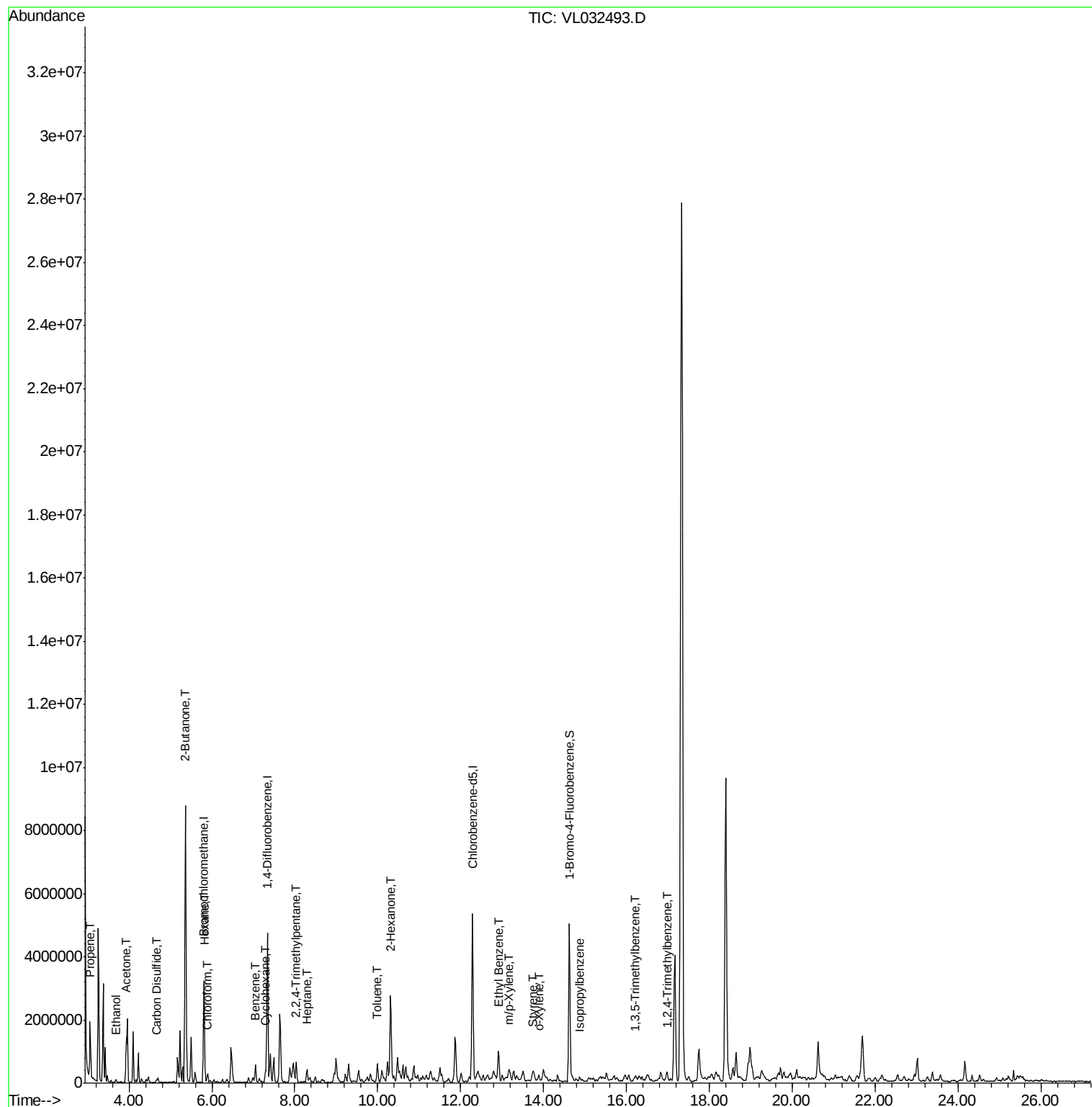
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091018\
Data File : VL032493.D
Acq On : 11 Sep 2018 00:41
Operator : SY/AP
Sample : J4820-04DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

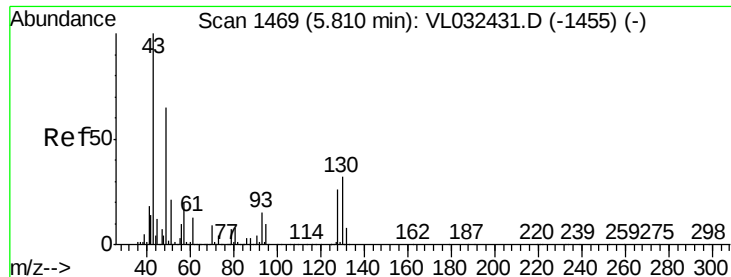
Instrument :
MSVOA_L
ClientSampleId :
245-BERRYDL

Manual Integrations
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Quant Time: Sep 11 16:07:53 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.80 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL032493.D

Acq: 11 Sep 2018 00:41

Instrument :

MSVOA_L

ClientSampleId :

245-BERRYDL

Tot Ion: 49 Resp: 1508561

Ion Ratio Lower Upper

49 100

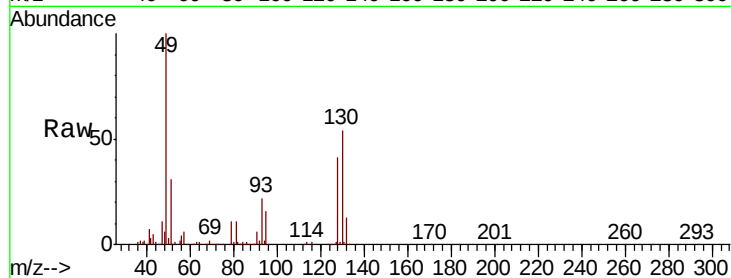
128 42.4 20.7 62.1

130 54.8 26.6 79.7

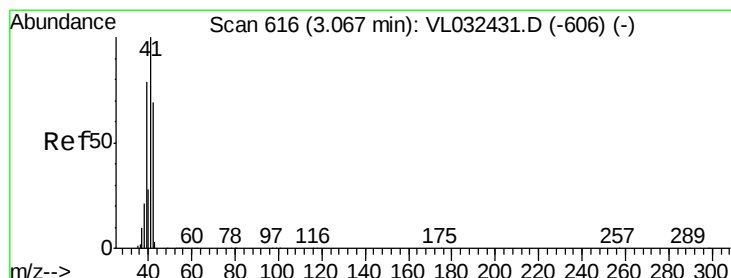
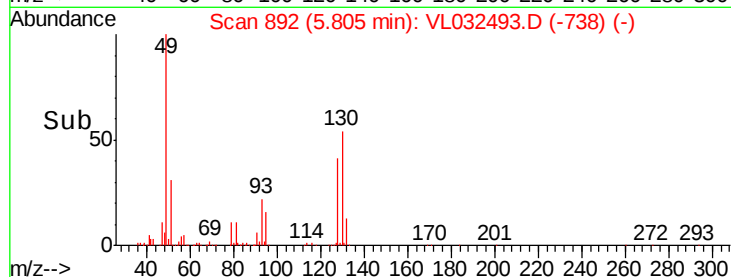
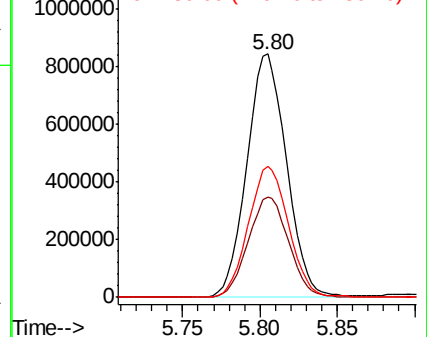
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Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 13.60 ppbv

RT: 3.06 min Scan# 39

Delta R.T. -0.01 min

Lab File: VL032493.D

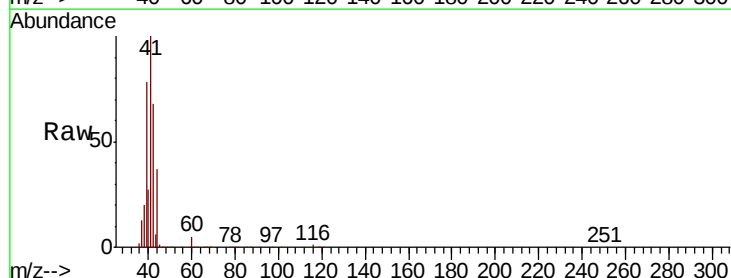
Acq: 11 Sep 2018 00:41

Tgt Ion: 41 Resp: 749070

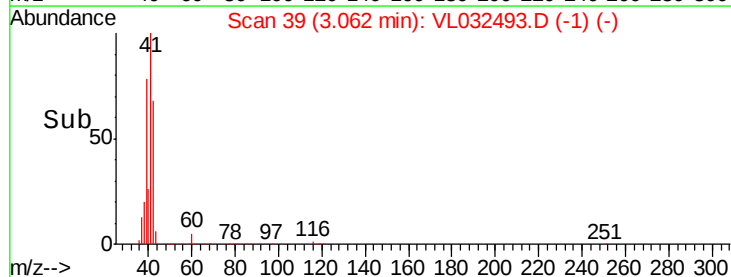
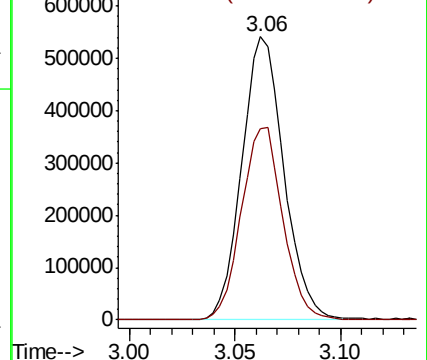
Ion Ratio Lower Upper

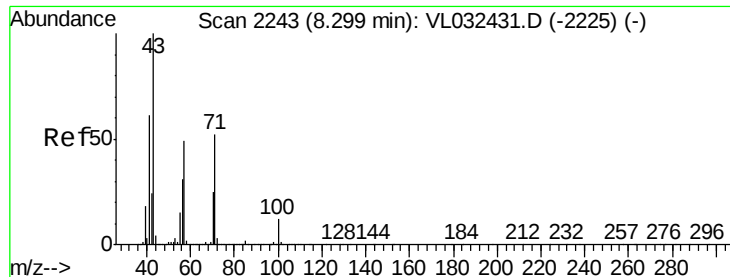
41 100

42 67.2 56.6 84.8



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 42.10 (41.80 to 42.80): VL0





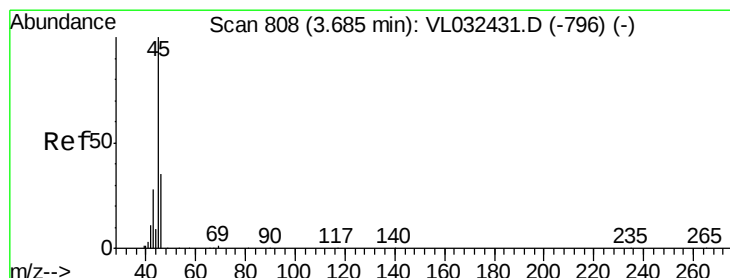
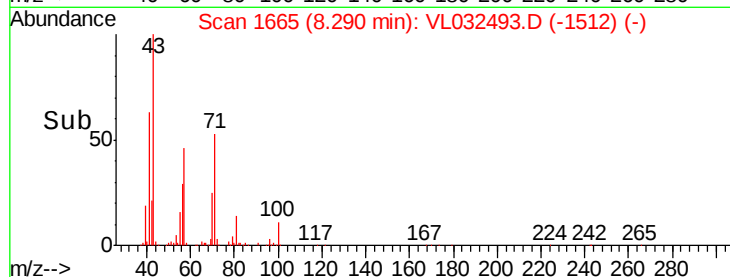
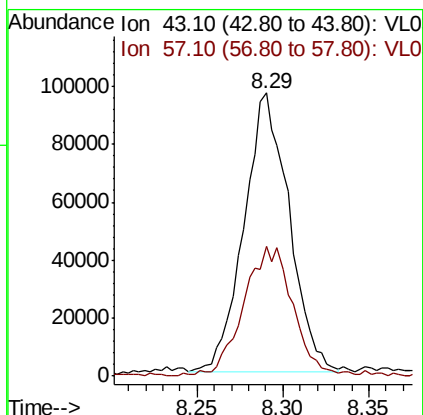
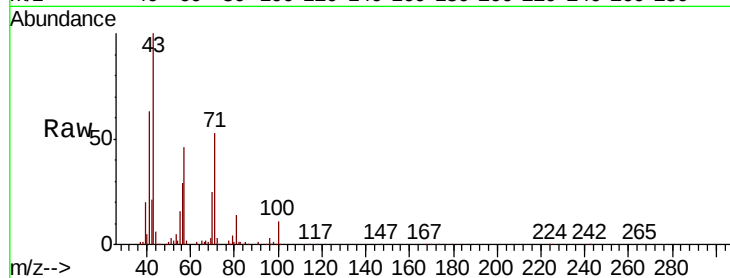
#10
Heptane
Concen: 0.88 ppbv
RT: 8.29 min Scan# 1665
Delta R.T. -0.01 min
Lab File: VL032493.D
Acq: 11 Sep 2018 00:41

Instrument :
MSVOA_L
ClientSampleId :
245-BERRYDL

Tot Ion: 43 Resp: 174774
Ion Ratio Lower Upper
43 100
57 51.7 39.6 59.4

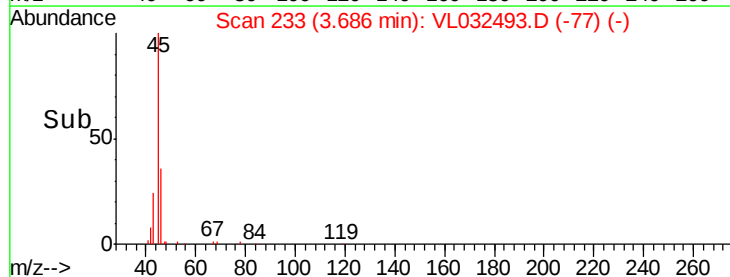
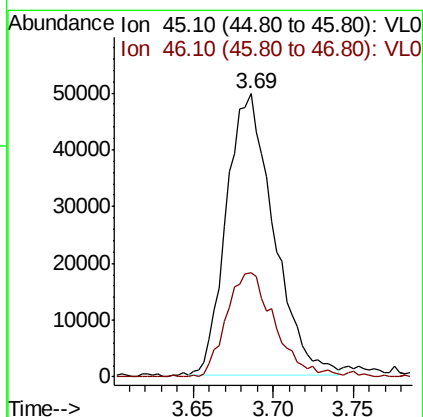
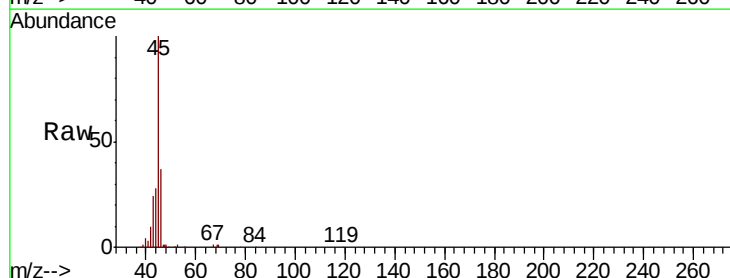
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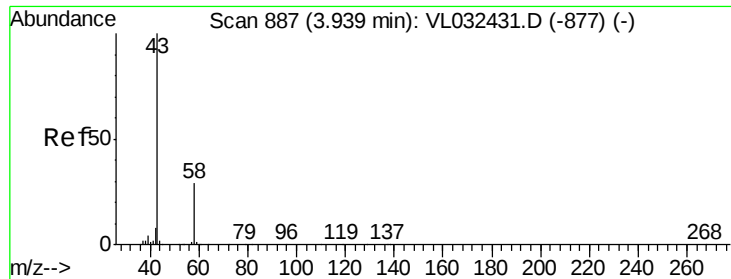
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#13
Ethanol
Concen: 5.85 ppbv
RT: 3.69 min Scan# 233
Delta R.T. 0.00 min
Lab File: VL032493.D
Acq: 11 Sep 2018 00:41

Tgt Ion: 45 Resp: 100500
Ion Ratio Lower Upper
45 100
46 38.3 14.2 56.8





#15

Acetone

Concen: 10.17 ppbv

RT: 3.93 min Scan# 309

Delta R.T. -0.01 min

Lab File: VL032493.D

Acq: 11 Sep 2018 00:41

Instrument :

MSVOA_L

ClientSampleId :

245-BERRYDL

Tot Ion: 43 Resp: 1381441

Ion Ratio Lower Upper

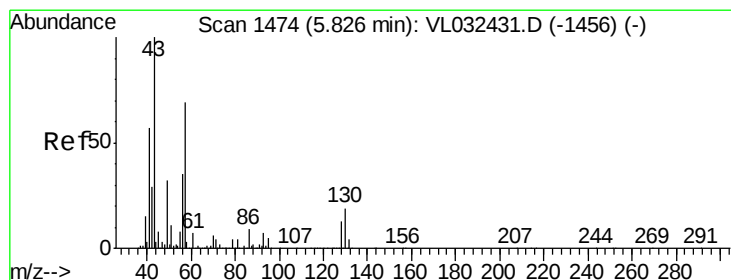
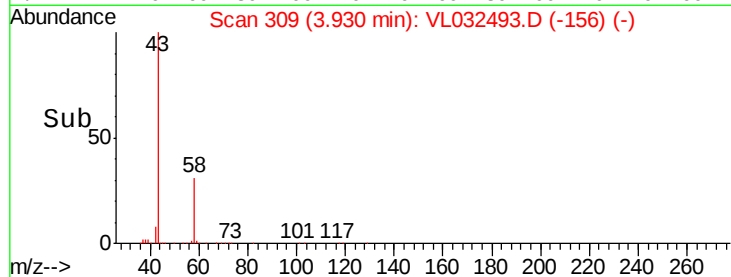
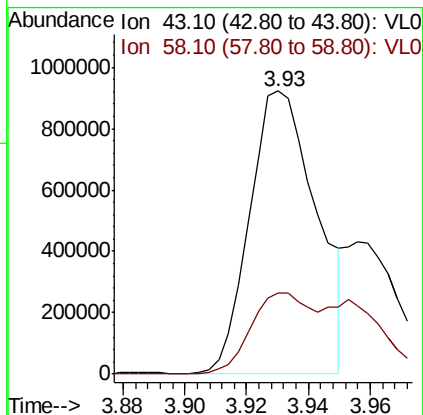
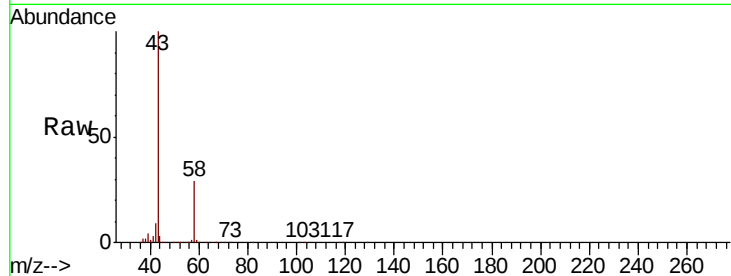
43 100

58 49.1 22.6 33.8#

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#26

Hexane

Concen: 1.60 ppbv

RT: 5.82 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL032493.D

Acq: 11 Sep 2018 00:41

Tgt Ion: 57 Resp: 229473

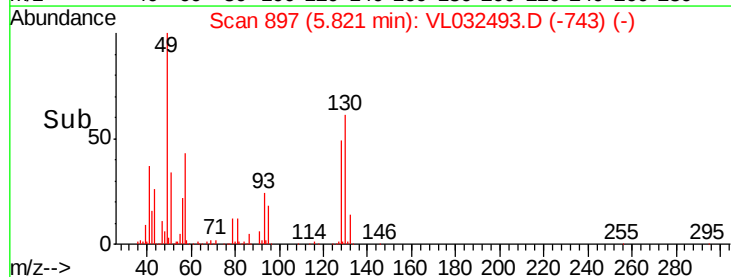
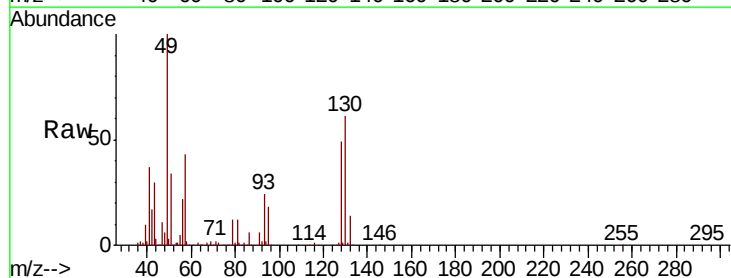
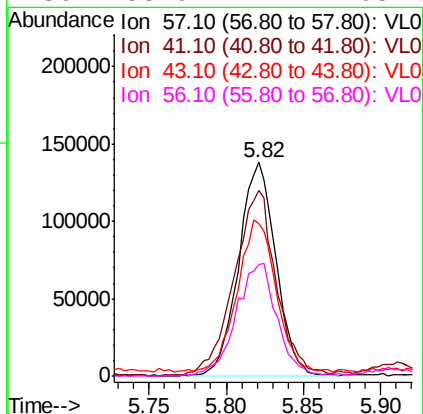
Ion Ratio Lower Upper

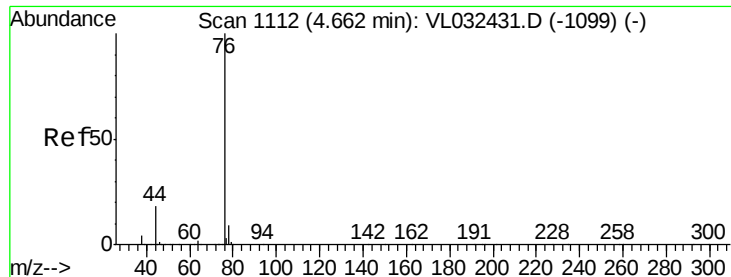
57 100

41 99.8 69.0 103.4

43 0.0 172.1 258.1#

56 58.9 42.2 63.2





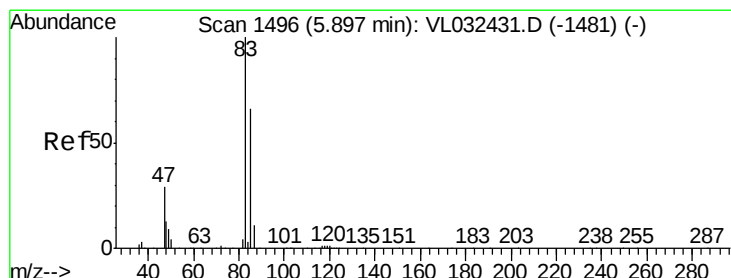
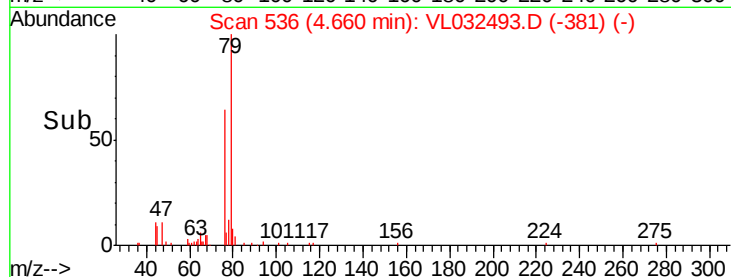
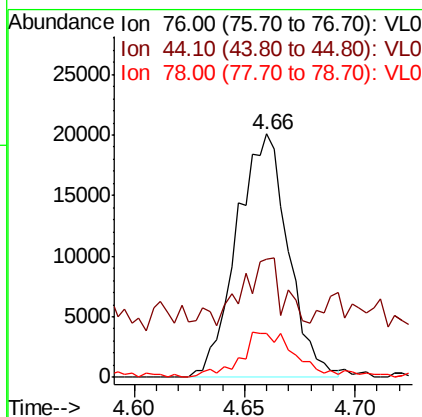
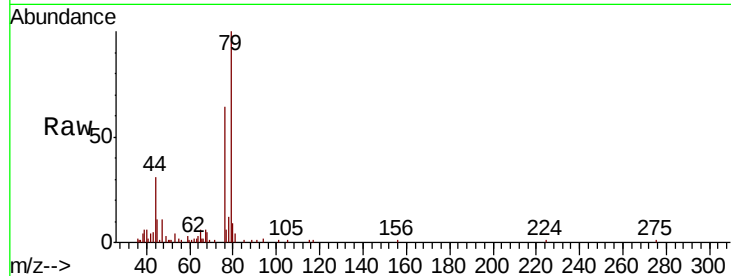
#27
Carbon Disulfide
Concen: 0.25 ppbv
RT: 4.66 min Scan# 536
Delta R.T. -0.00 min
Lab File: VL032493.D
Acq: 11 Sep 2018 00:41

Instrument :
MSVOA_L
ClientSampleId :
245-BERRYDL

Tot Ion	Ratio	Lower	Upper
76	100		
44	31.6	14.0	21.0#
78	20.5	7.5	11.3#

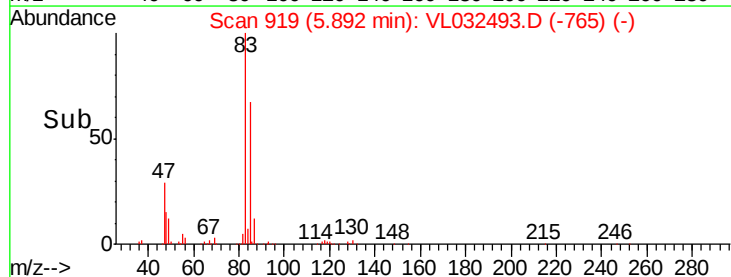
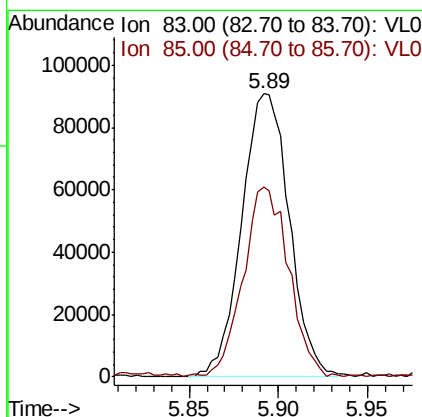
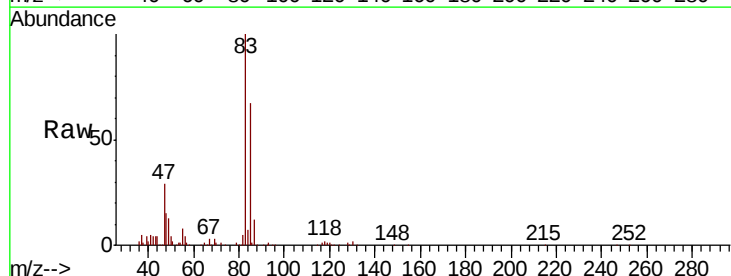
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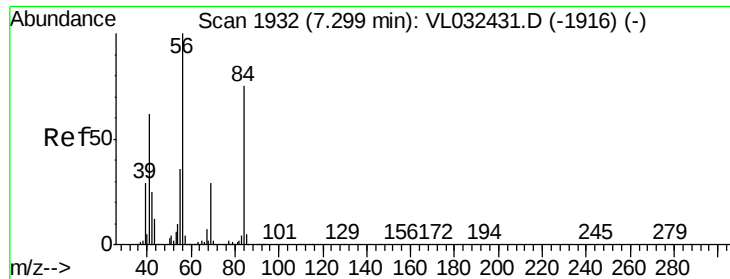
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#29
Chloroform
Concen: 0.77 ppbv
RT: 5.89 min Scan# 919
Delta R.T. -0.01 min
Lab File: VL032493.D
Acq: 11 Sep 2018 00:41

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.0	52.5	78.7





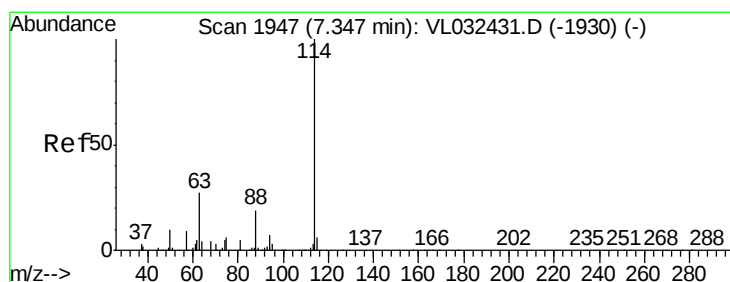
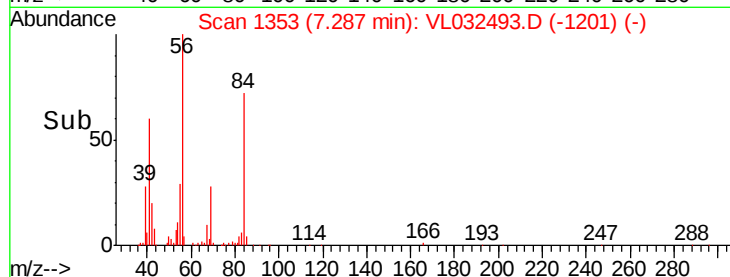
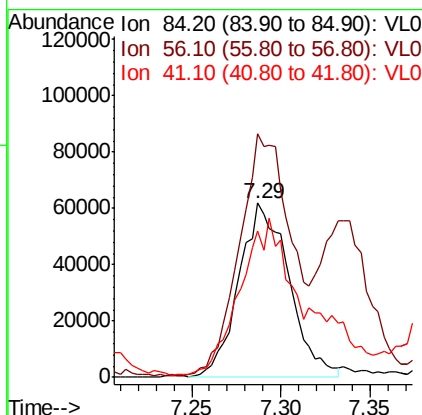
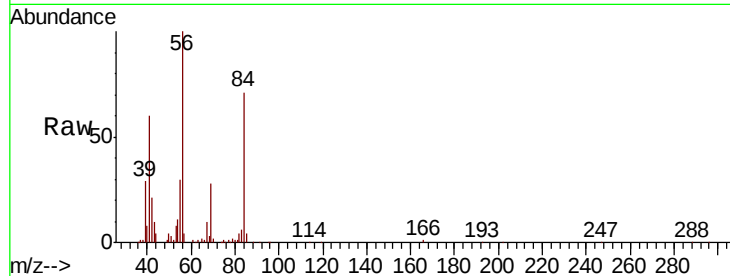
#30
Cvclohexane
Concen: 1.15 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL032493.D
Acq: 11 Sep 2018 00:41

Instrument :
MSVOA_L
ClientSampleId :
245-BERRYDL

Tot Ion	Ratio	Lower	Upper
84	100		
56	139.4	113.5	170.3
41	118.0	68.1	102.1#

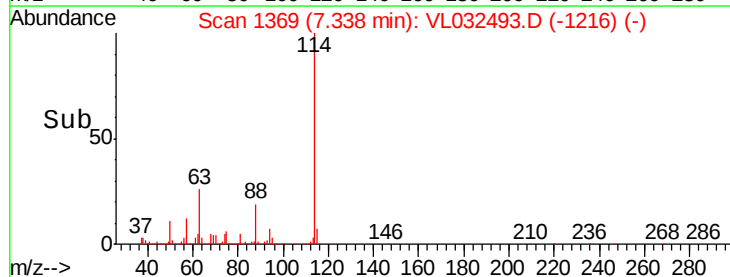
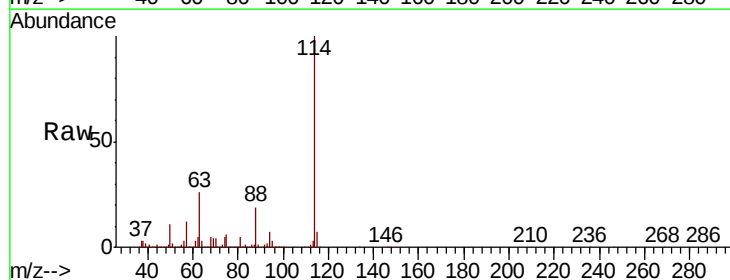
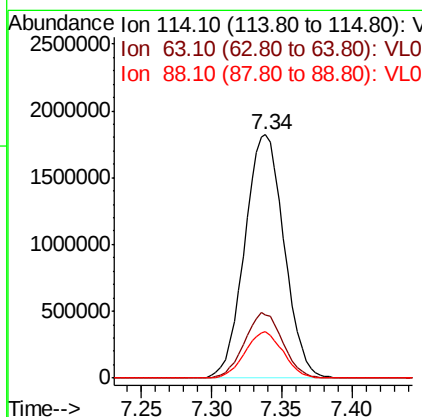
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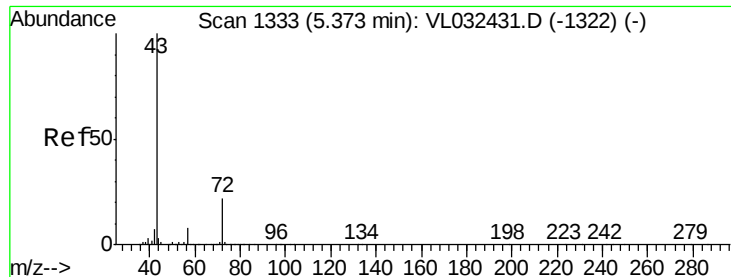
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.34 min Scan# 1369
Delta R.T. -0.01 min
Lab File: VL032493.D
Acq: 11 Sep 2018 00:41

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.4	22.2	33.4
88	18.6	15.0	22.4





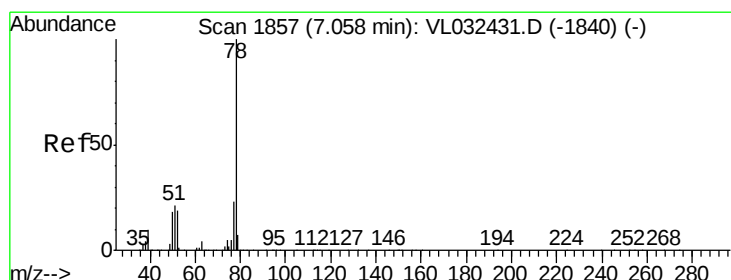
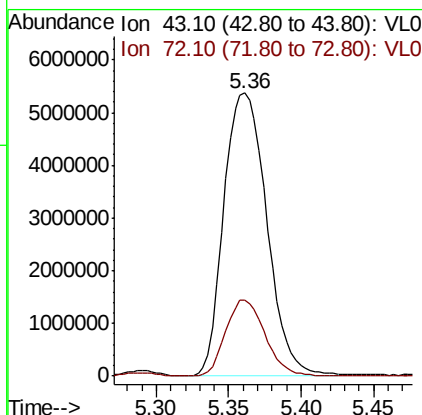
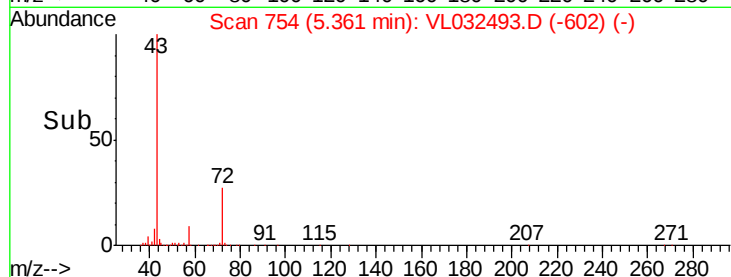
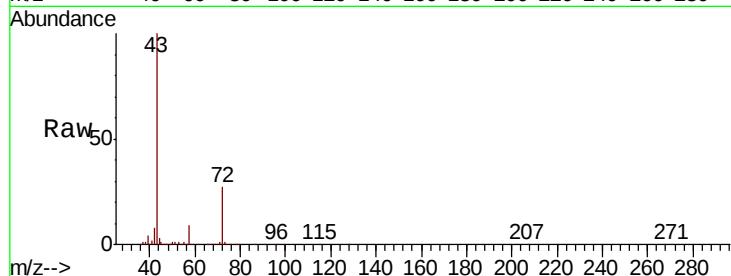
#34
2-Butanone
Concen: 46.75 ppbv
RT: 5.36 min Scan# 754
Delta R.T. -0.01 min
Lab File: VL032493.D
Acq: 11 Sep 2018 00:41

Instrument :
MSVOA_L
ClientSampleId :
245-BERRYDL

Tot Ion: 43 Resp: 11055958
Ion Ratio Lower Upper
43 100
72 24.8 17.8 26.6

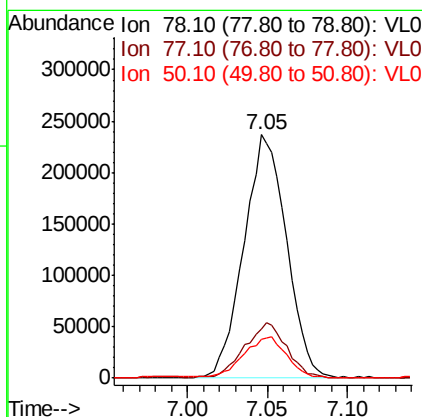
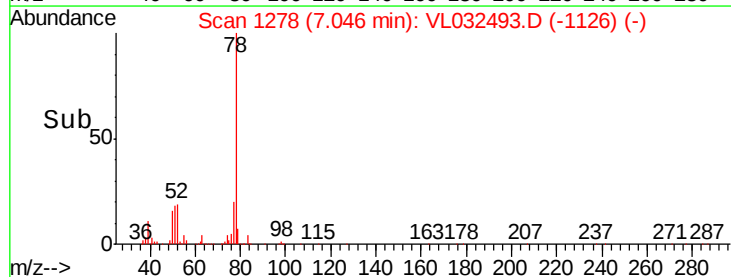
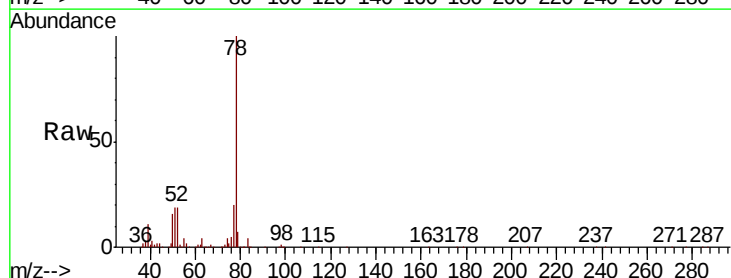
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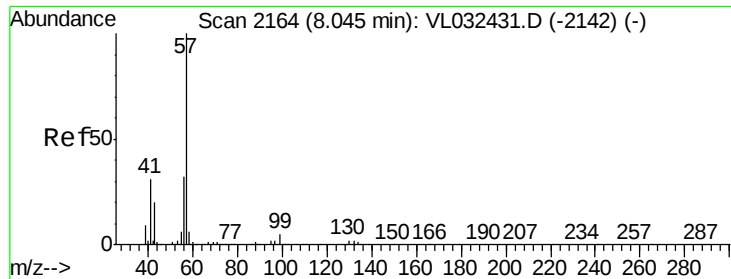
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#36
Benzene
Concen: 1.42 ppbv
RT: 7.05 min Scan# 1278
Delta R.T. -0.01 min
Lab File: VL032493.D
Acq: 11 Sep 2018 00:41

Tgt Ion: 78 Resp: 429428
Ion Ratio Lower Upper
78 100
77 19.8 18.4 27.6
50 15.6 14.4 21.6





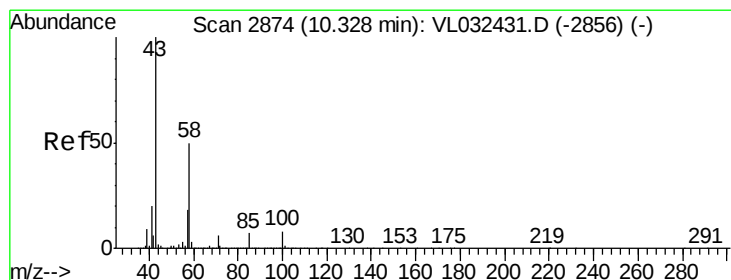
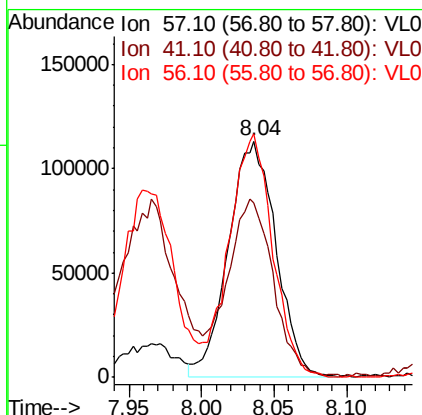
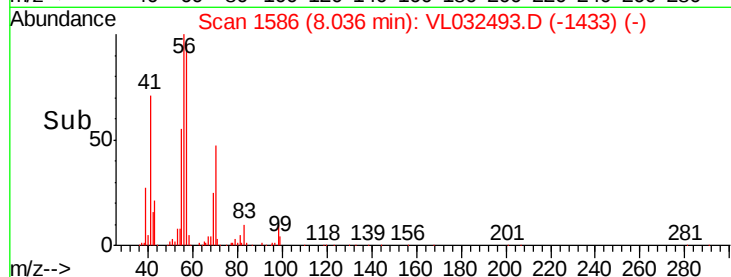
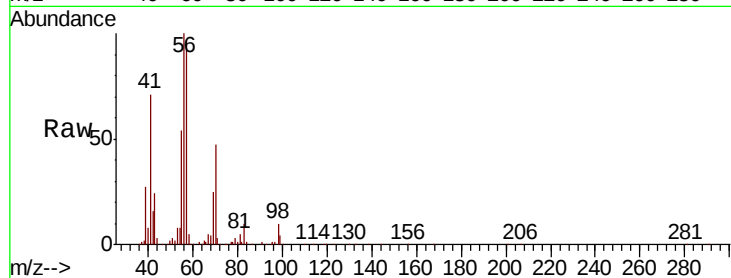
#44
 2,2,4-Trimethylpentane
 Concen: 0.44 ppbv
 RT: 8.04 min Scan# 1586
 Delta R.T. -0.01 min
 Lab File: VL032493.D
 Acq: 11 Sep 2018 00:41

Instrument :
 MSVOA_L
 ClientSampleId :
 245-BERRYDL

Tot Ion	Ratio	Lower	Upper
57	100		
41	74.2	24.4	36.6#
56	95.0	25.7	38.5#

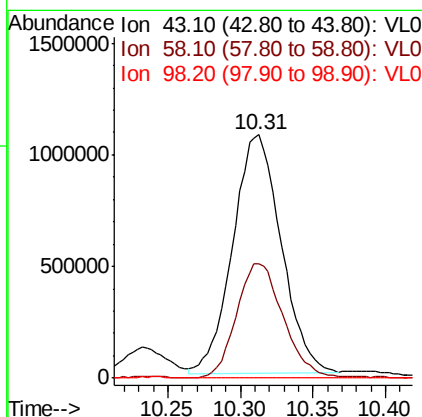
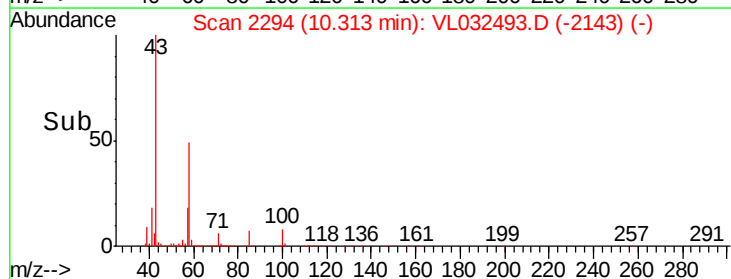
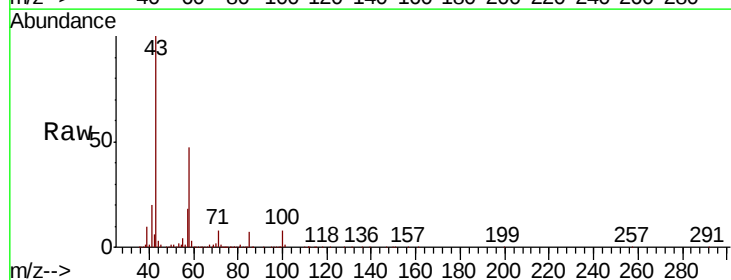
Manual Integrations
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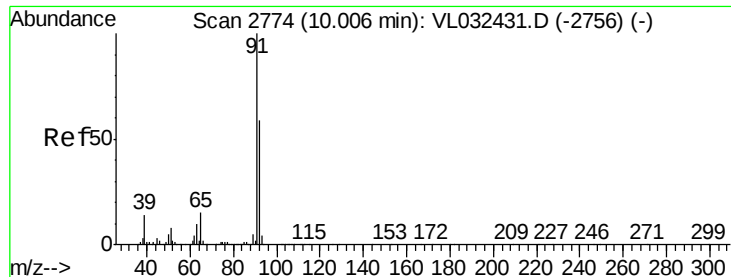
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#51
 2-Hexanone
 Concen: 10.83 ppbv
 RT: 10.31 min Scan# 2294
 Delta R.T. -0.01 min
 Lab File: VL032493.D
 Acq: 11 Sep 2018 00:41

Tgt Ion	Ratio	Lower	Upper
43	100		
58	46.4	39.2	58.8
98	0.3	0.4	0.6#





#53

Toluene

Concen: 1.02 ppbv

RT: 9.99 min Scan# 2194

Delta R.T. -0.01 min

Lab File: VL032493.D

Acq: 11 Sep 2018 00:41

Instrument :

MSVOA_L

ClientSampleId :

245-BERRYDL

Tot Ion: 91 Resp: 322435

Ion Ratio Lower Upper

91 100

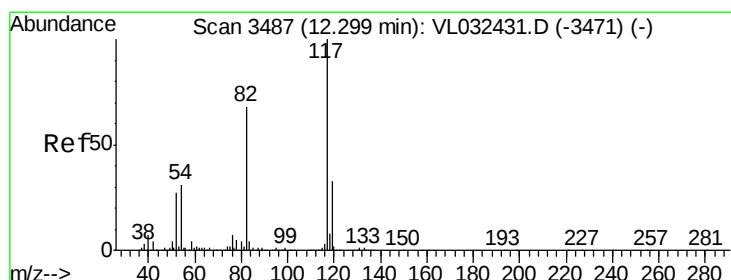
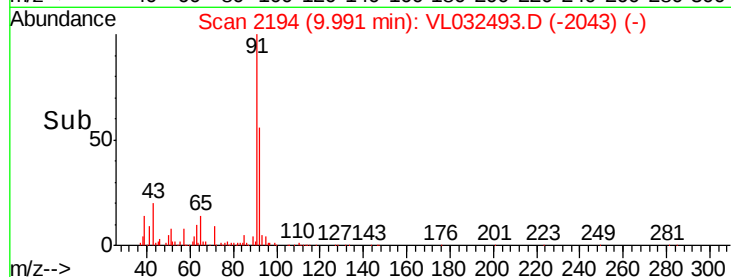
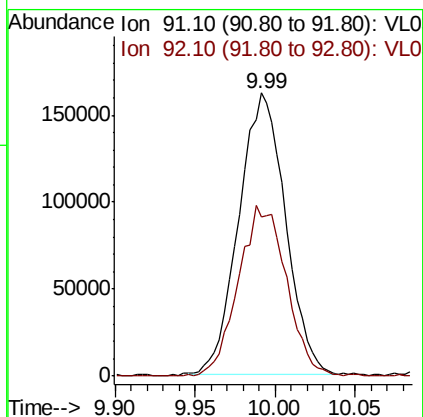
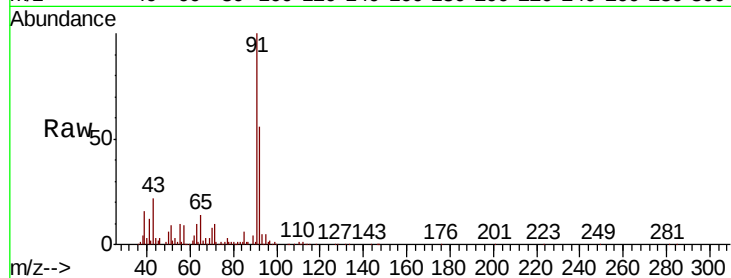
92 62.7 48.1 72.1

Manual Integrations

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.29 min Scan# 2908

Delta R.T. -0.01 min

Lab File: VL032493.D

Acq: 11 Sep 2018 00:41

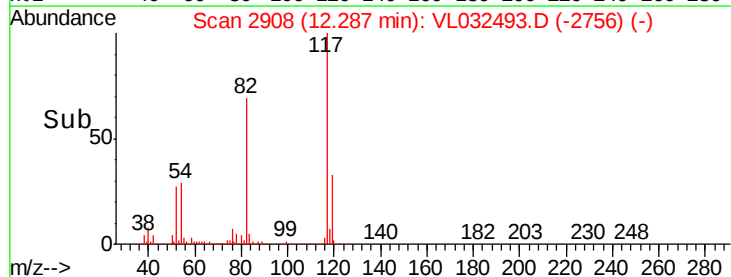
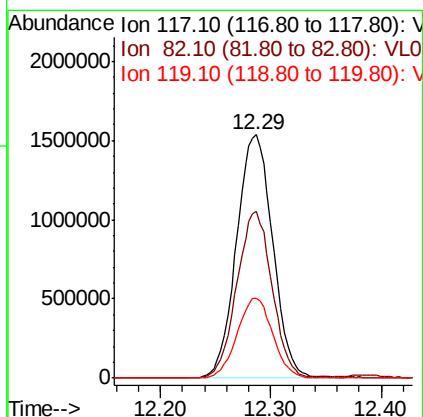
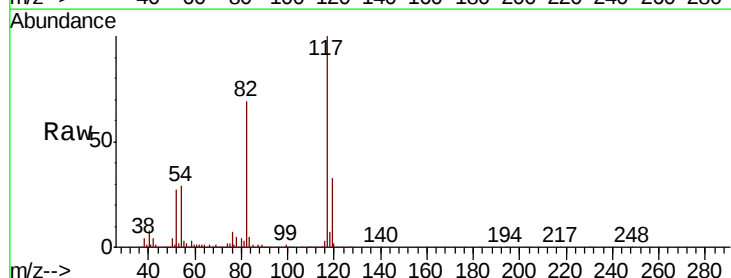
Tgt Ion: 117 Resp: 3493938

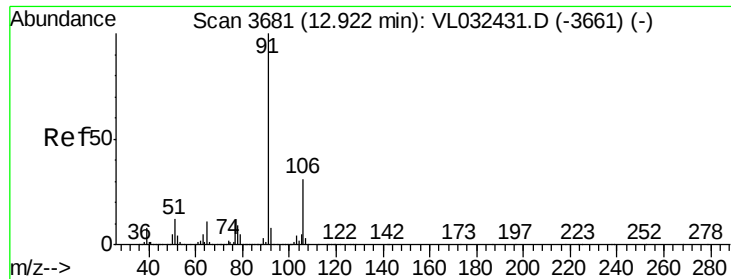
Ion Ratio Lower Upper

117 100

82 66.9 53.0 79.6

119 32.6 45.9 68.9#





#58

Ethyl Benzene

Concen: 0.36 ppbv

RT: 12.91 min Scan# 3101

Delta R.T. -0.01 min

Lab File: VL032493.D

Acq: 11 Sep 2018 00:41

Instrument :

MSVOA_L

ClientSampleId :

245-BERRYDL

Tot Ion: 91 Resp: 151702

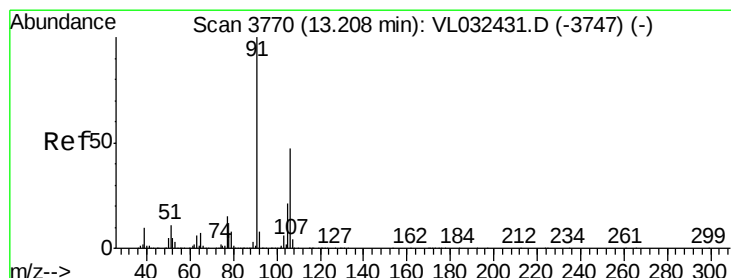
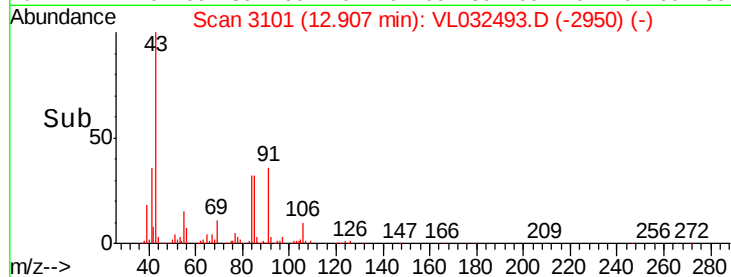
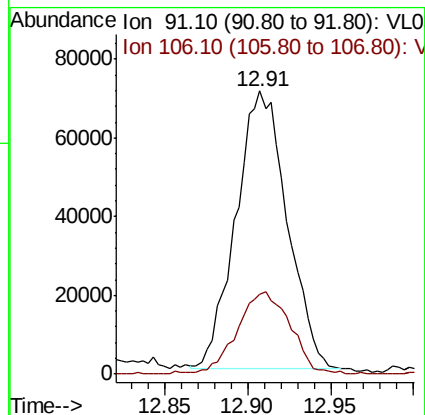
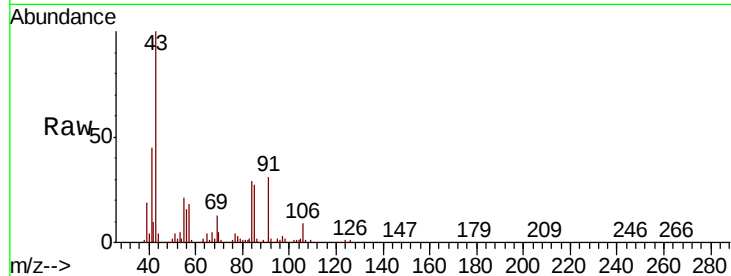
Ion Ratio Lower Upper

91 100

106 28.0 24.8 37.2

Manual Integrations
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#59

m/p-Xylene

Concen: 0.72 ppbv m

RT: 13.16 min Scan# 3179

Delta R.T. -0.05 min

Lab File: VL032493.D

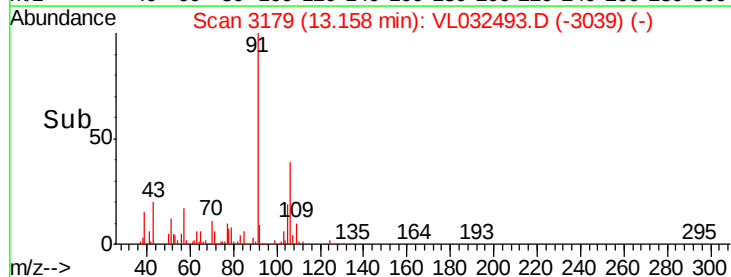
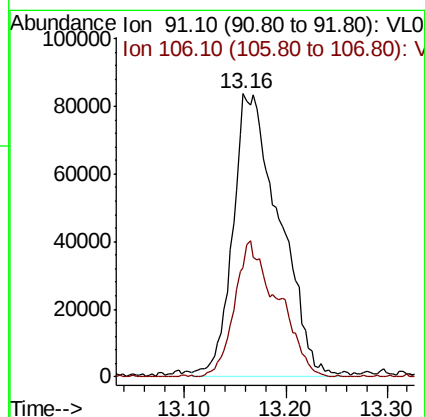
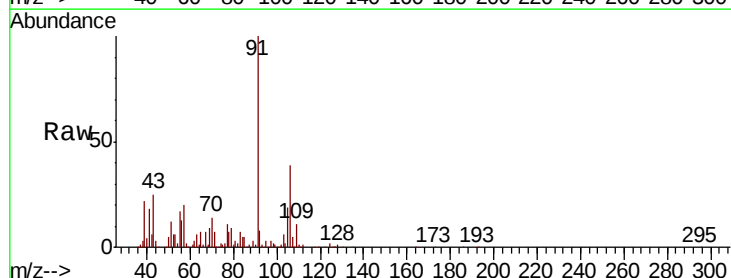
Acq: 11 Sep 2018 00:41

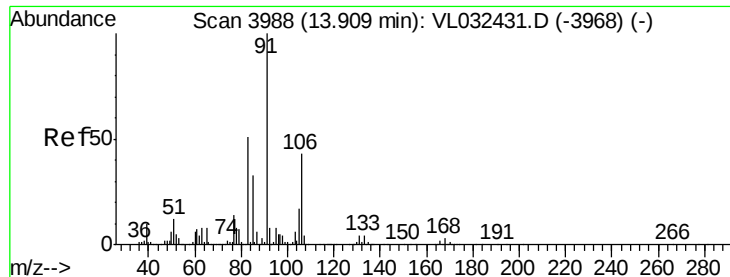
Tgt Ion: 91 Resp: 268292

Ion Ratio Lower Upper

91 100

106 44.8 36.6 55.0





#60

o-Xylene

Concen: 0.29 ppbv m

RT: 13.90 min Scan# 3409

Delta R.T. -0.01 min

Lab File: VL032493.D

Acq: 11 Sep 2018 00:41

Instrument :

MSVOA_L

ClientSampleId :

245-BERRYDL

Tot Ion: 91 Resp: 104965

Ion Ratio Lower Upper

91 100

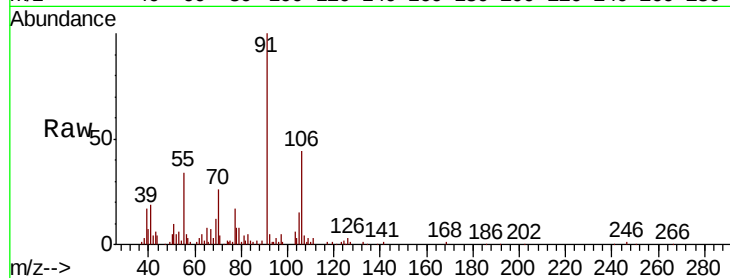
106 43.4 21.9 65.7

Manual Integrations

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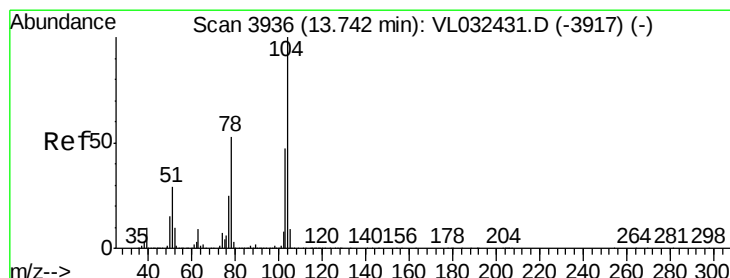
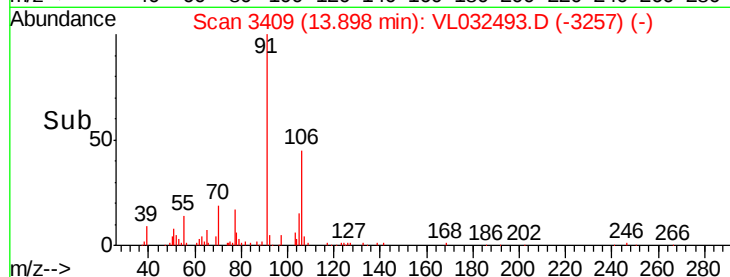
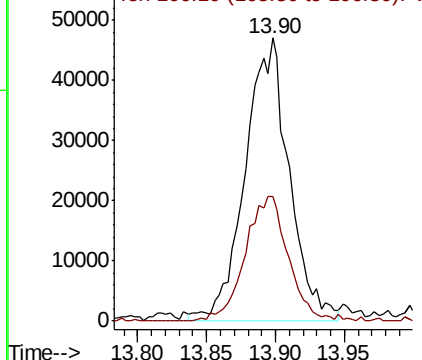
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#61

Styrene

Concen: 0.39 ppbv m

RT: 13.73 min Scan# 3358

Delta R.T. -0.01 min

Lab File: VL032493.D

Acq: 11 Sep 2018 00:41

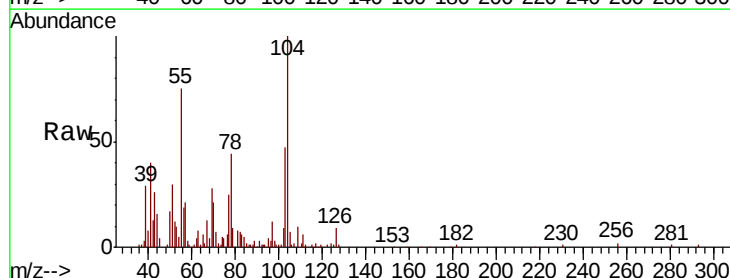
Tgt Ion: 104 Resp: 92823

Ion Ratio Lower Upper

104 100

78 52.4 41.8 62.8

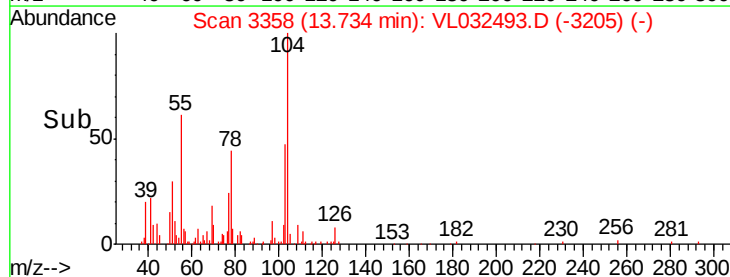
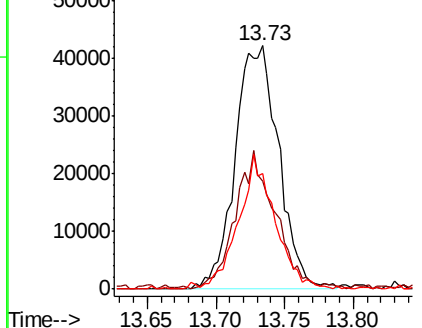
103 46.8 38.0 57.0

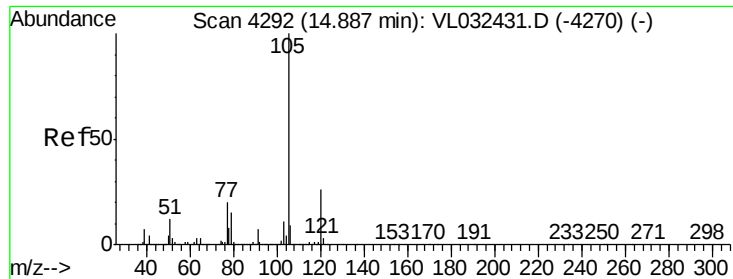


Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V





#62

Isopropylbenzene

Concen: 0.22 ppbv

RT: 14.87 min Scan# 3712

Delta R.T. -0.01 min

Lab File: VL032493.D

Acq: 11 Sep 2018 00:41

Instrument :

MSVOA_L

ClientSampleId :

245-BERRYDL

Tot Ion: 105 Resp: 115513

Ion Ratio Lower Upper

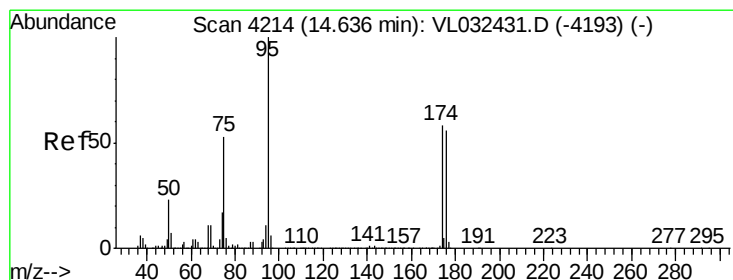
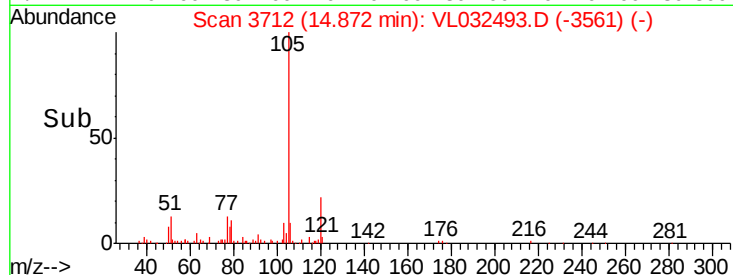
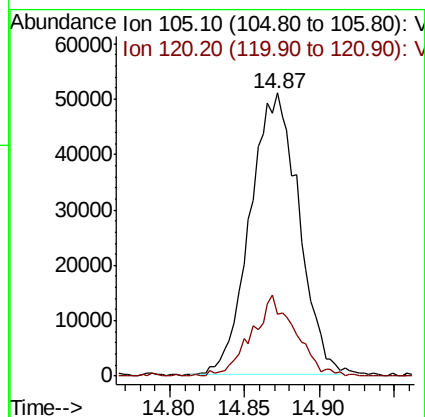
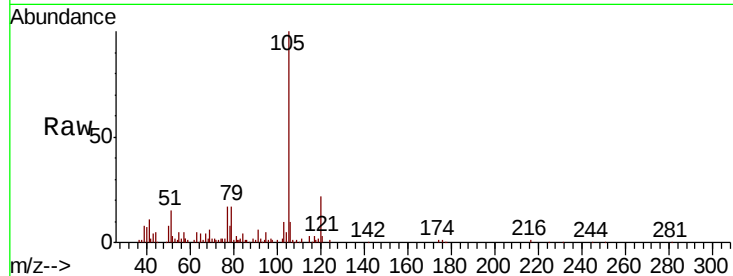
105 100

120 25.6 20.6 31.0

Manual Integrations
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9/12/2018 3:59:43 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 10.51 ppbv

RT: 14.62 min Scan# 3634

Delta R.T. -0.01 min

Lab File: VL032493.D

Acq: 11 Sep 2018 00:41

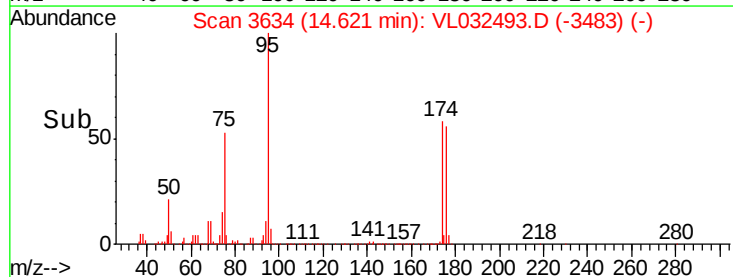
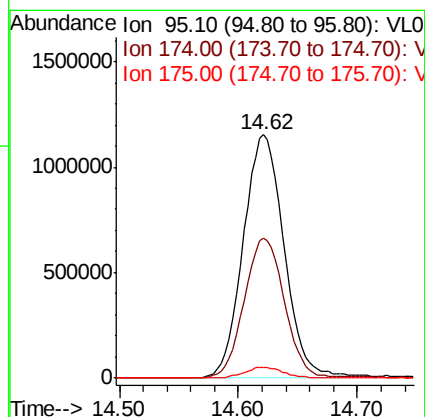
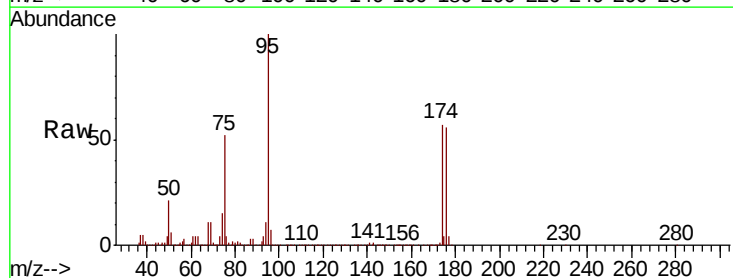
Tgt Ion: 95 Resp: 2727508

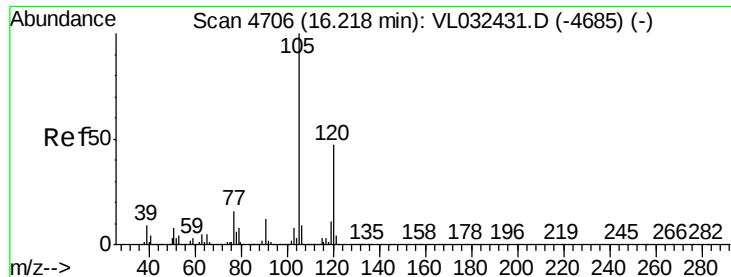
Ion Ratio Lower Upper

95 100

174 57.7 46.3 69.5

175 4.3 3.4 5.0





#73

1,3,5-Trimethylbenzene

Concen: 0.19 ppbv m

RT: 16.20 min Scan# 4125

Delta R.T. -0.02 min

Lab File: VL032493.D

Acq: 11 Sep 2018 00:41

Instrument :

MSVOA_L

ClientSampleId :

245-BERRYDL

Tot Ion:105 Resp: 76570

Ion Ratio Lower Upper

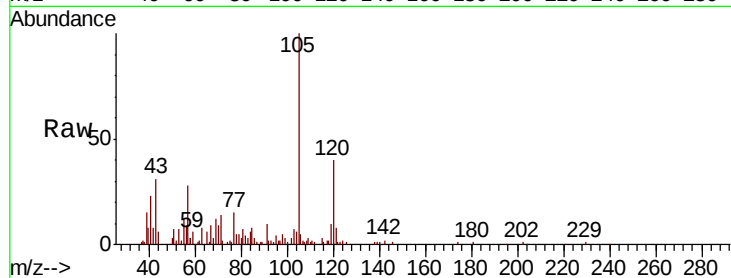
105 100

120 40.3 37.9 56.9

Manual Integrations
APPROVED

MMDadoda

9/12/2018 3:59:43 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.20

40000

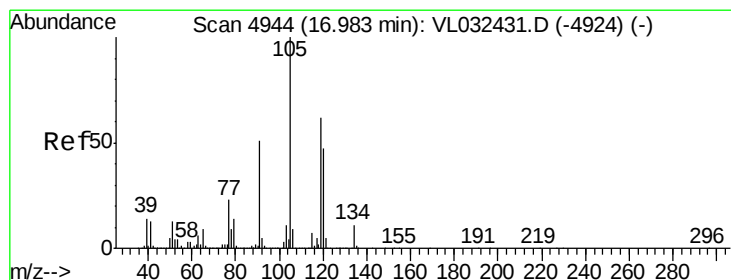
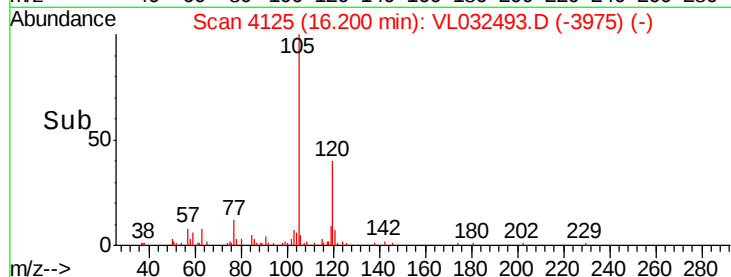
30000

20000

10000

0

Time--> 16.10 16.15 16.20 16.25



#74

1,2,4-Trimethylbenzene

Concen: 0.32 ppbv m

RT: 16.97 min Scan# 4364

Delta R.T. -0.01 min

Lab File: VL032493.D

Acq: 11 Sep 2018 00:41

Tgt Ion:105 Resp: 139434

Ion Ratio Lower Upper

105 100

120 43.6 37.8 56.8

91 11.5 41.4 62.0#

77 16.0 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

100000

80000

60000

40000

20000

0

Time--> 16.90 17.00

