

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032366.D
 Acq On : 16 Aug 2018 1:10
 Operator : SY/AP
 Sample : J4457-02DL DUP 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS08-MIVIDL DUP

Manual Integrations
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 8/17/2018 2:06:47 PM

Quant Time: Aug 16 07:35:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Wed Aug 16 07:35:26 2018
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	1985844	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	4241908	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	4022004	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.65	95	3221878	10.50	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.08	41	458992m	5.83	ppbv	
10) Heptane	8.31	43	2807003	11.84	ppbv	99
13) Ethanol	3.69	45	227521	11.25	ppbv	99
15) Acetone	3.95	43	464302m	2.46	ppbv	
19) Isopropyl Alcohol	4.08	45	208656	1.64	ppbv #	1
20) Methylene Chloride	4.46	84	19618	0.28	ppbv #	93
26) Hexane	5.84	57	2738642	15.19	ppbv #	44
27) Carbon Disulfide	4.67	76	67222	0.40	ppbv	95
30) Cyclohexane	7.31	84	2255652	16.43	ppbv	98
34) 2-Butanone	5.39	43	264512	0.92	ppbv	99
36) Benzene	7.06	78	884316	2.46	ppbv	98
52) Tetrachloroethene	11.46	164	9774822	92.16	ppbv	89
53) Toluene	10.01	91	5704056	14.47	ppbv	100
58) Ethyl Benzene	12.94	91	2163178	4.47	ppbv	96
59) m/p-Xylene	13.19	91	4926131	11.98	ppbv	100
60) o-Xylene	13.92	91	1725936	4.27	ppbv	99
61) Styrene	13.76	104	43262m	0.15	ppbv	
62) Isopropylbenzene	14.89	105	229994	0.40	ppbv	98
64) n-propylbenzene	15.79	120	86916	0.58	ppbv	87
69) p-Isopropyltoluene	17.88	119	94382m	0.17	ppbv	
70) n-Butylbenzene	18.78	91	153059m	0.25	ppbv	
72) 4-Ethyltoluene	16.07	105	754971	1.68	ppbv	99
73) 1,3,5-Trimethylbenzene	16.22	105	718111	1.66	ppbv	97
74) 1,2,4-Trimethylbenzene	16.99	105	1883299	4.08	ppbv #	71

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

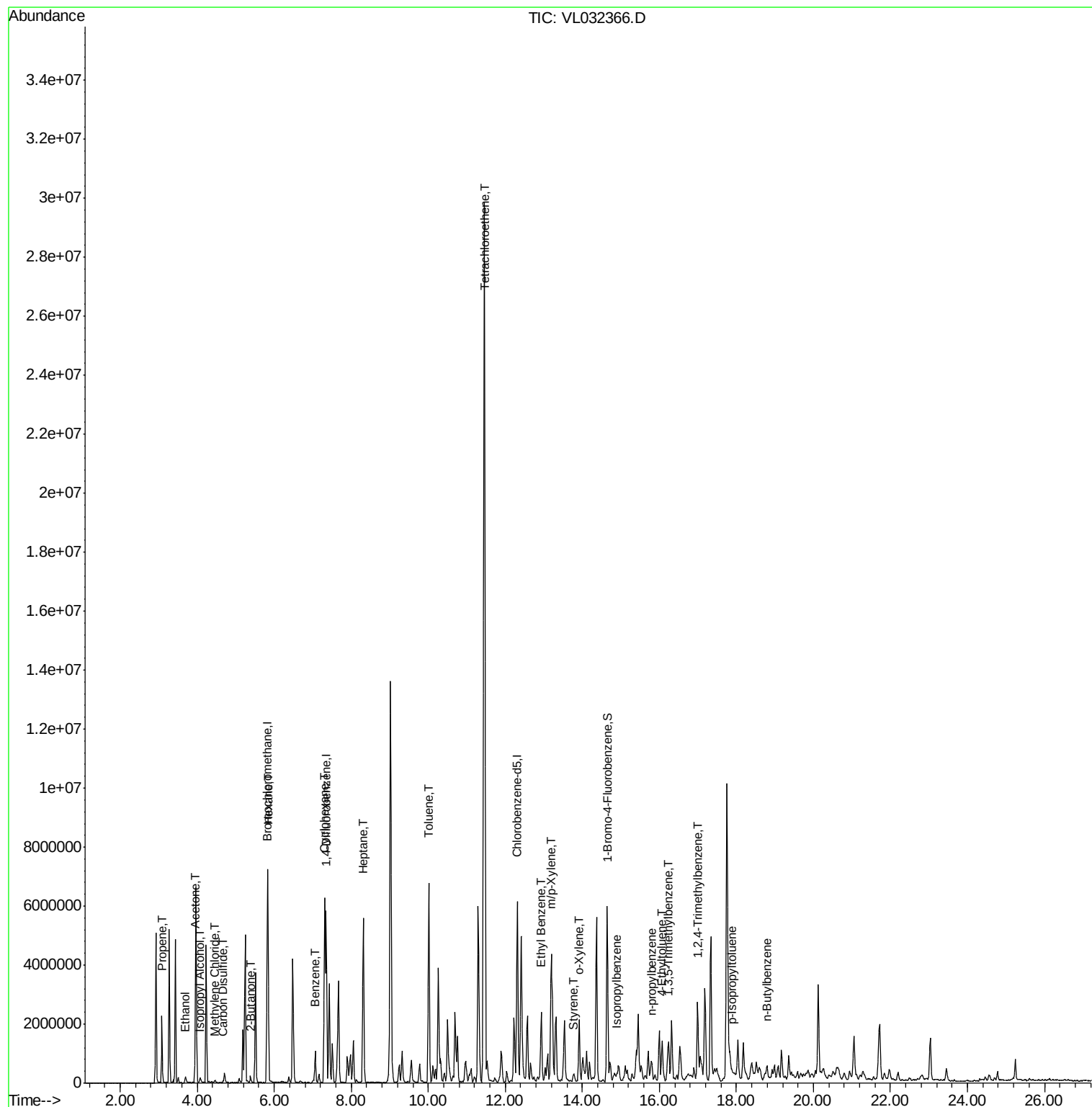
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032366.D
Acq On : 16 Aug 2018 1:10
Operator : SY/AP
Sample : J4457-02DL DUP 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

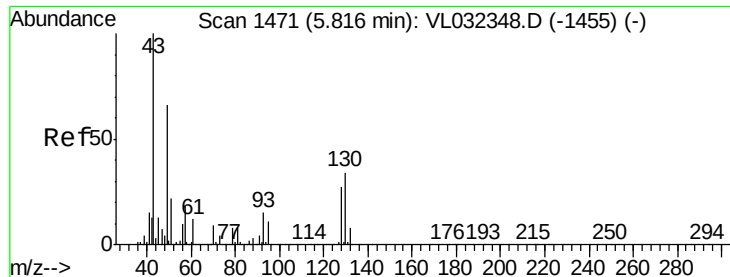
Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVIDL DUP

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Quant Time: Aug 16 07:35:26 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. -0.00 min

Lab File: VL032366.D

Acq: 16 Aug 2018 1:10

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVIDLDUP

Tot Ion: 49 Resp: 1985844

Ion Ratio Lower Upper

49 100

128 41.7 20.5 61.6

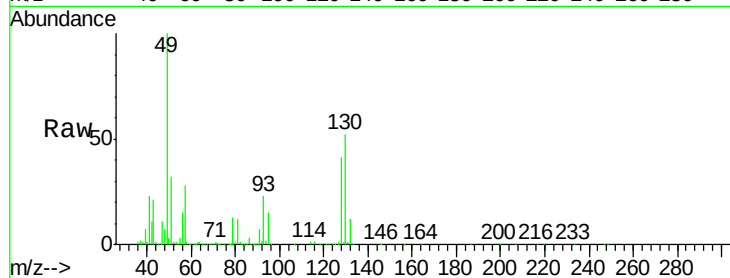
130 52.7 26.2 78.5

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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

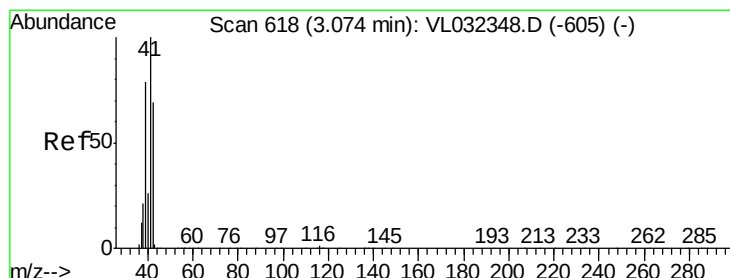
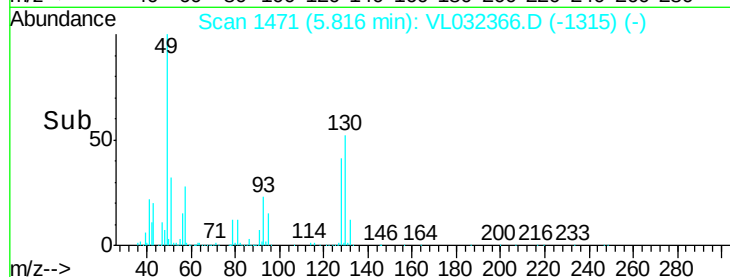
5.82

1000000

500000

0

Time-->



#9

Propene

Concen: 5.83 ppbv m

RT: 3.08 min Scan# 621

Delta R.T. 0.01 min

Lab File: VL032366.D

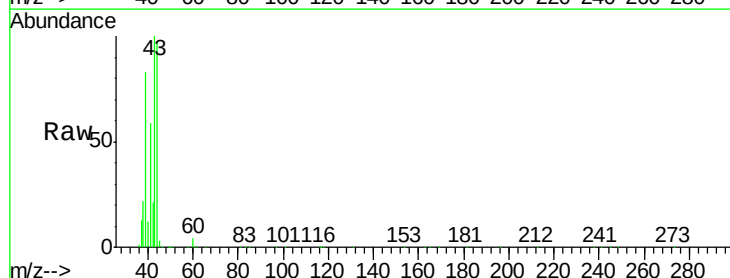
Acq: 16 Aug 2018 1:10

Tgt Ion: 41 Resp: 458992

Ion Ratio Lower Upper

41 100

42 220.2 55.9 83.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.08

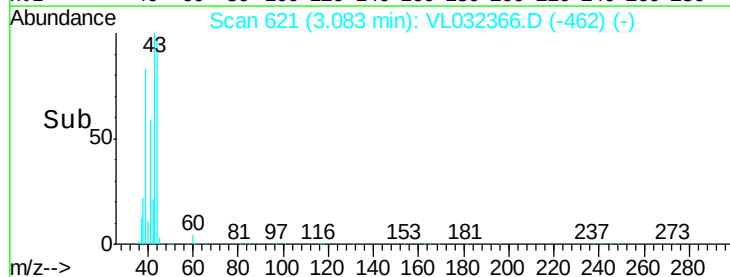
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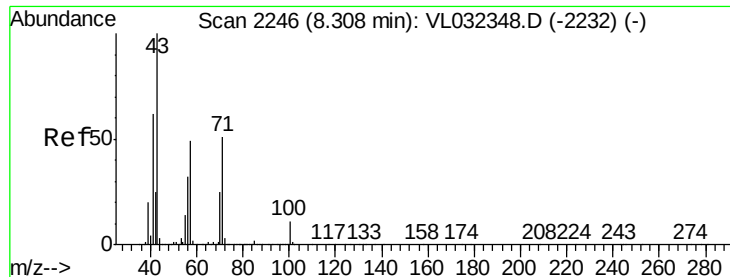
200000

100000

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Time-->





#10

Heptane

Concen: 11.84 ppbv

RT: 8.31 min Scan# 2247

Delta R.T. 0.00 min

Lab File: VL032366.D

Acq: 16 Aug 2018 1:10

Tot Ion: 43 Resp: 2807003

Ion Ratio Lower Upper

43 100

57 48.7 39.5 59.3

Instrument :

MSVOA_L

ClientSampleId :

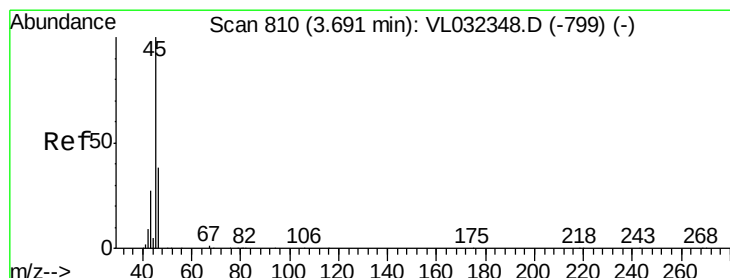
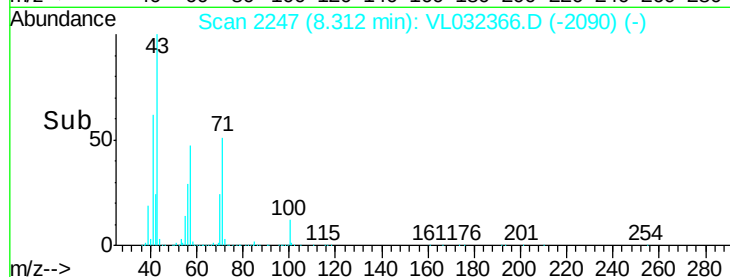
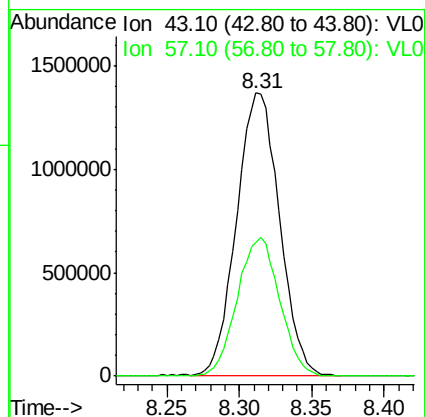
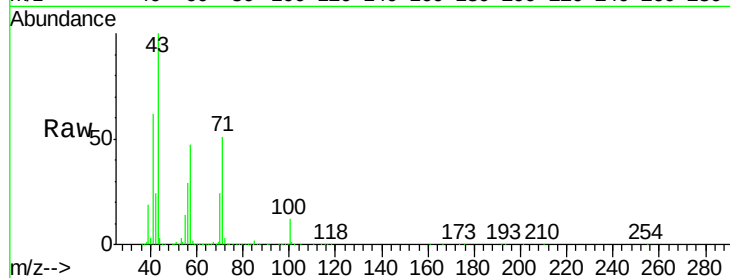
SS08-MIVIDLDUP

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#13

Ethanol

Concen: 11.25 ppbv

RT: 3.69 min Scan# 811

Delta R.T. 0.00 min

Lab File: VL032366.D

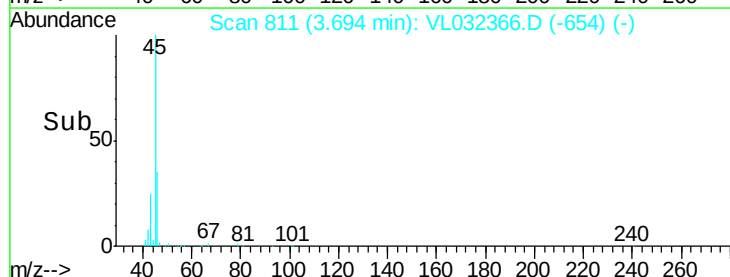
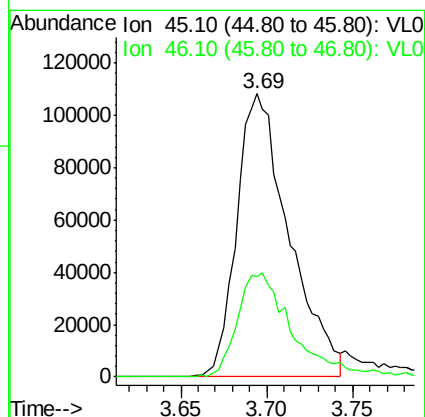
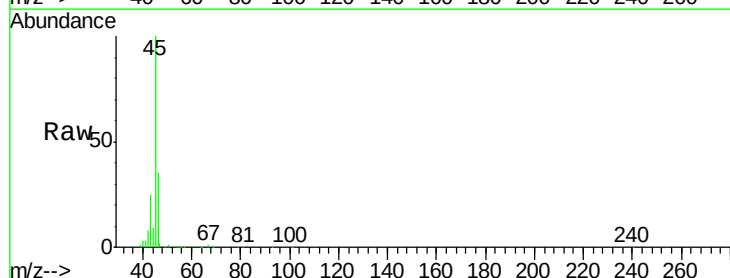
Acq: 16 Aug 2018 1:10

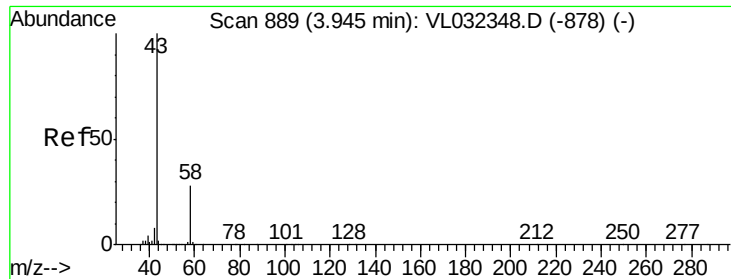
Tgt Ion: 45 Resp: 227521

Ion Ratio Lower Upper

45 100

46 39.4 15.6 62.4





#15

Acetone

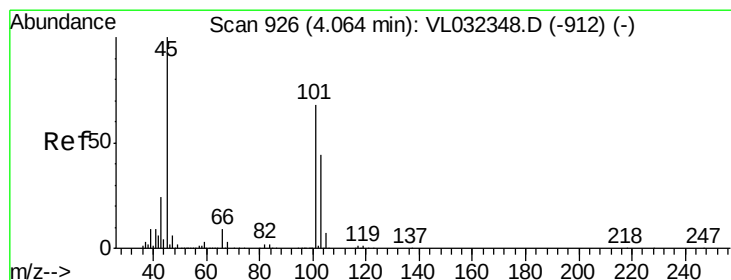
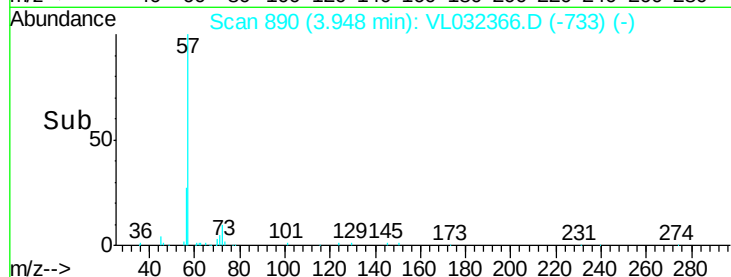
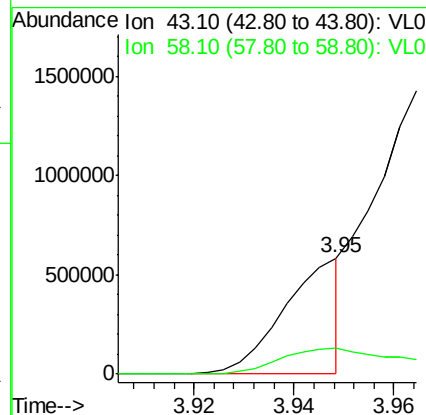
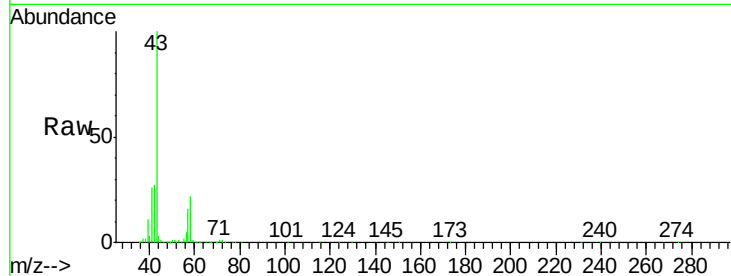
Concen: 2.46 ppbv m
RT: 3.95 min Scan# 890
Delta R.T. 0.00 min
Lab File: VL032366.D
Acq: 16 Aug 2018 1:10

Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVIDLDUP

Tot Ion: 43 Resp: 464302
Ion Ratio Lower Upper
43 100
58 57.4 22.4 33.6#

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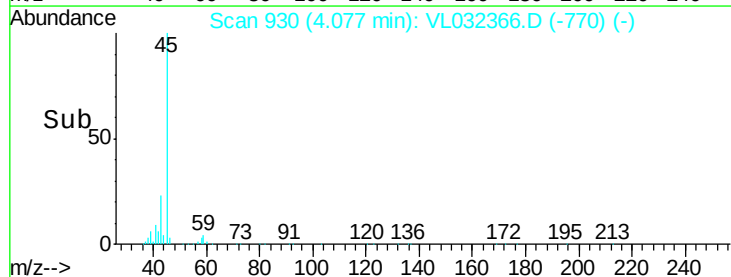
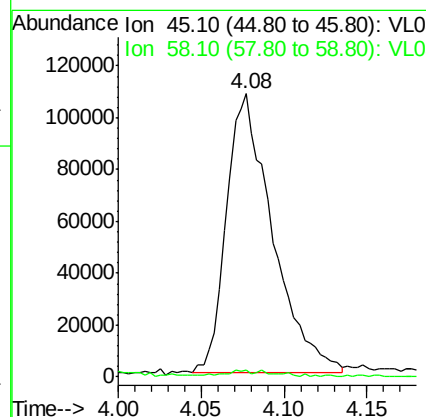
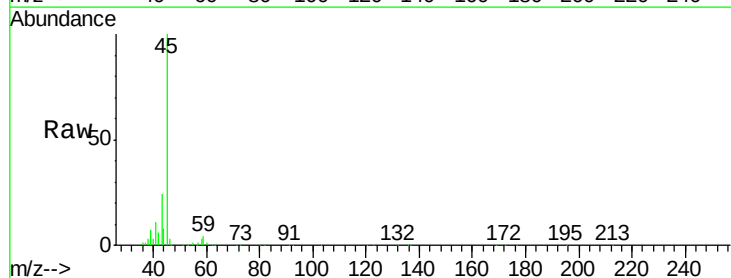


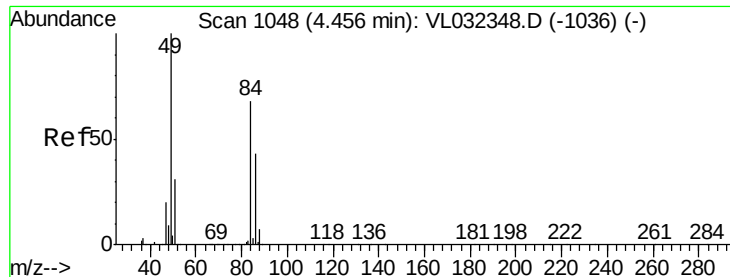
#19

Isopropyl Alcohol

Concen: 1.64 ppbv
RT: 4.08 min Scan# 930
Delta R.T. 0.01 min
Lab File: VL032366.D
Acq: 16 Aug 2018 1:10

Tgt Ion: 45 Resp: 208656
Ion Ratio Lower Upper
45 100
58 127.9 1.4 2.0#





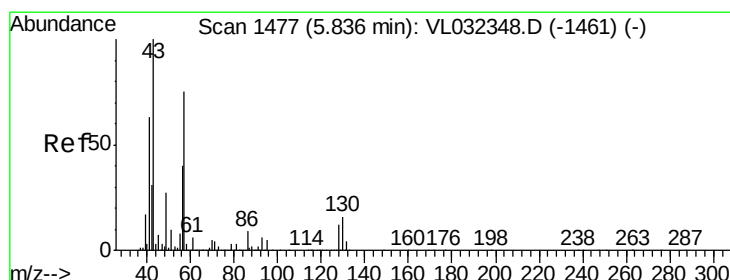
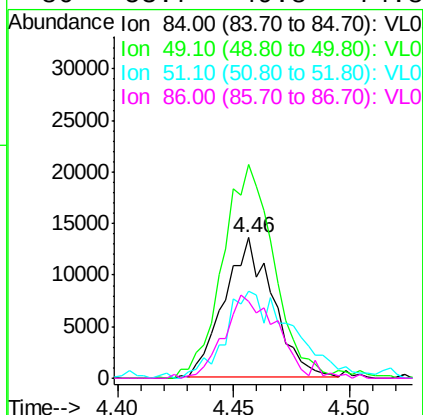
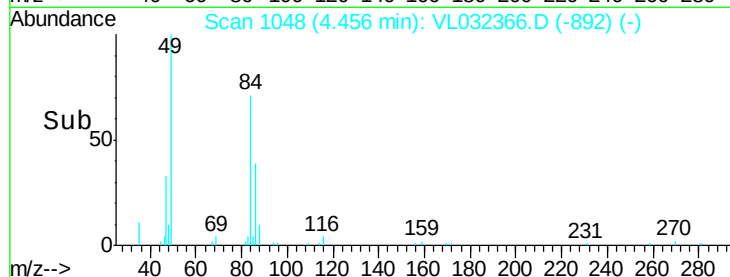
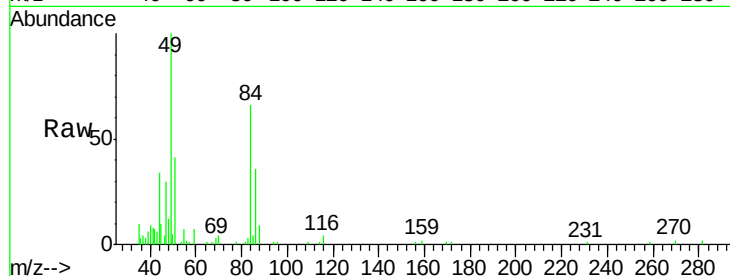
#20
Methvlene Chloride
Concen: 0.28 ppbv
RT: 4.46 min Scan# 1048
Delta R.T. -0.00 min
Lab File: VL032366.D
Acq: 16 Aug 2018 1:10

Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVIDLDUP

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	148.0	117.3	175.9	
51	58.1	36.6	55.0#	
86	53.7	49.8	74.8	

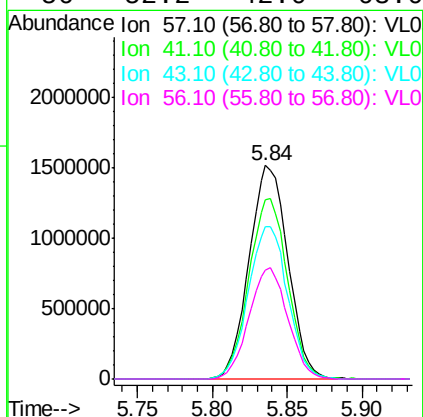
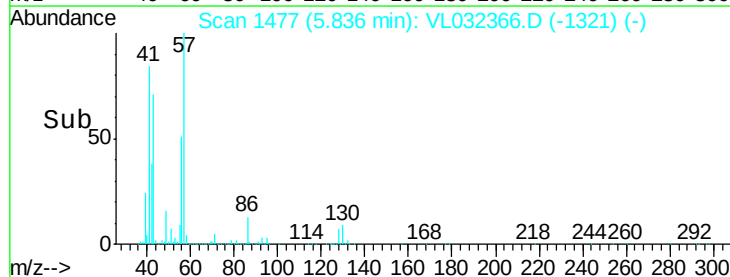
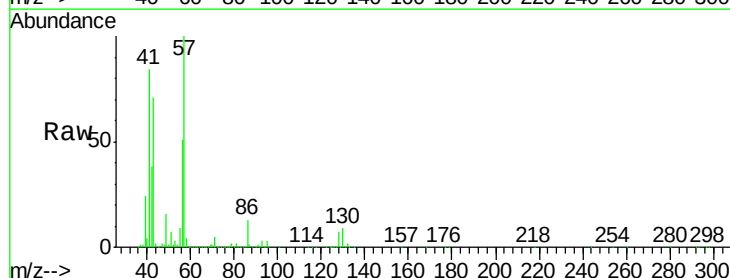
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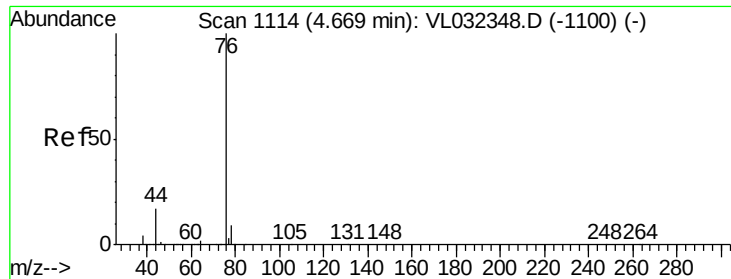
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#26
Hexane
Concen: 15.19 ppbv
RT: 5.84 min Scan# 1477
Delta R.T. -0.00 min
Lab File: VL032366.D
Acq: 16 Aug 2018 1:10

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	84.1	68.0	102.0	
43	72.4	175.3	262.9#	
56	52.2	42.0	63.0	





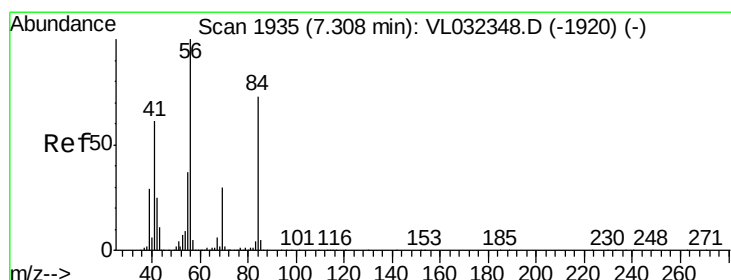
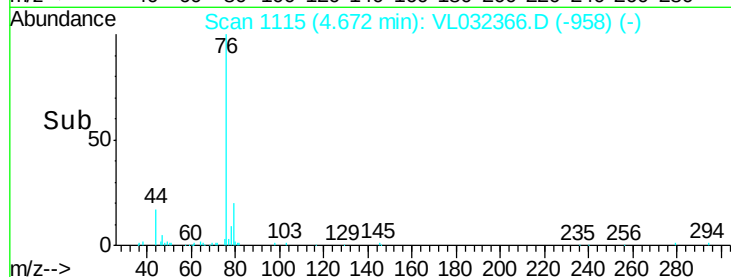
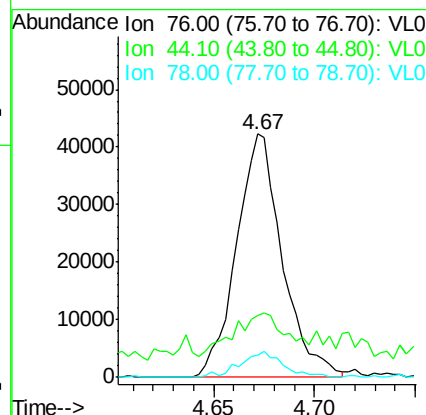
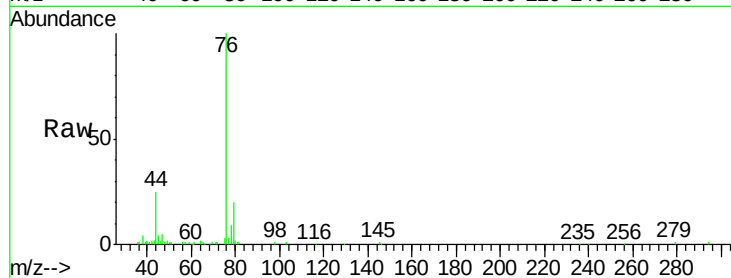
#27
Carbon Disulfide
Concen: 0.40 ppbv
RT: 4.67 min Scan# 1115
Delta R.T. 0.00 min
Lab File: VL032366.D
Acq: 16 Aug 2018 1:10

Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVIDLDUP

Tot Ion	Ratio	Lower	Upper
76	100		
44	20.9	14.4	21.6
78	10.2	7.4	11.0

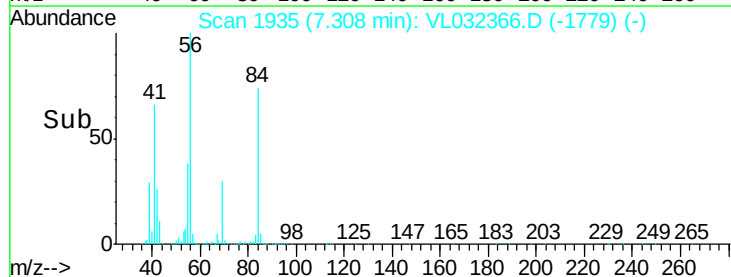
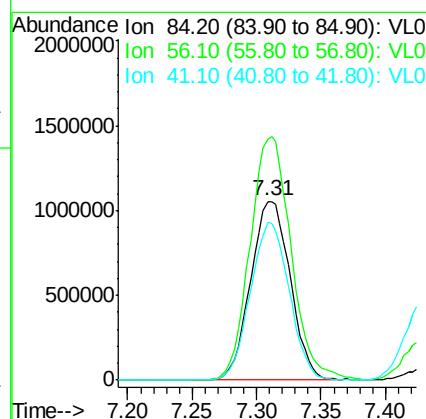
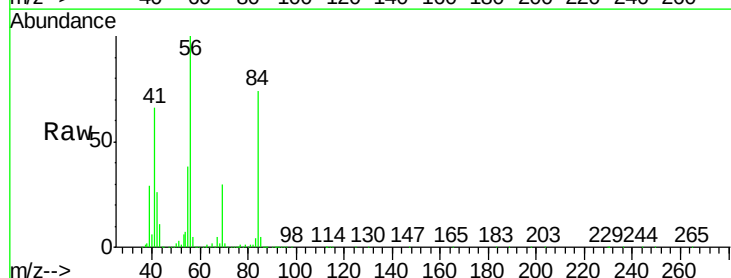
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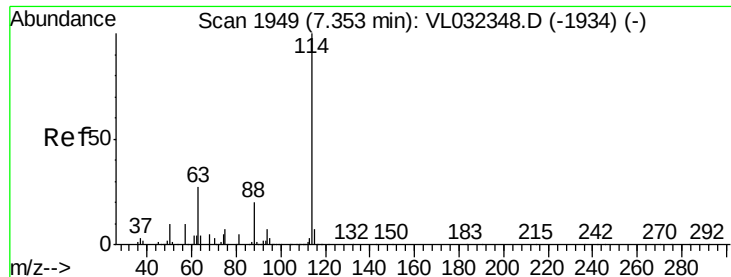
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#30
Cyclohexane
Concen: 16.43 ppbv
RT: 7.31 min Scan# 1935
Delta R.T. -0.00 min
Lab File: VL032366.D
Acq: 16 Aug 2018 1:10

Tgt Ion	Ratio	Lower	Upper
84	100		
56	141.0	115.7	173.5
41	86.4	67.9	101.9





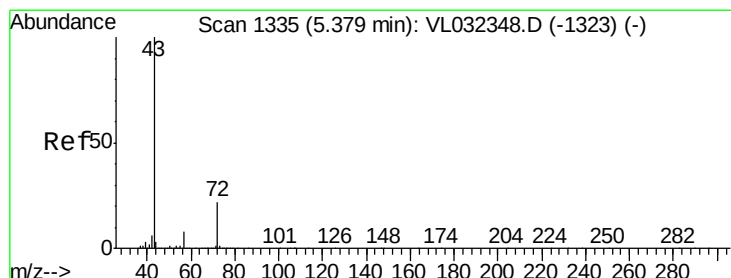
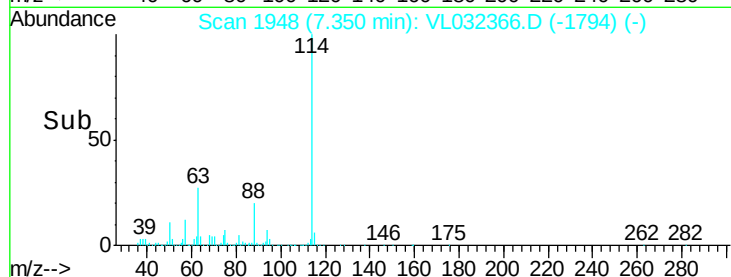
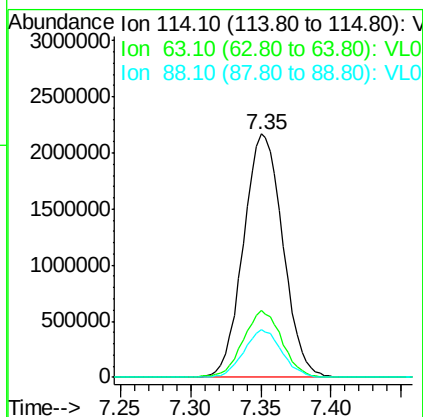
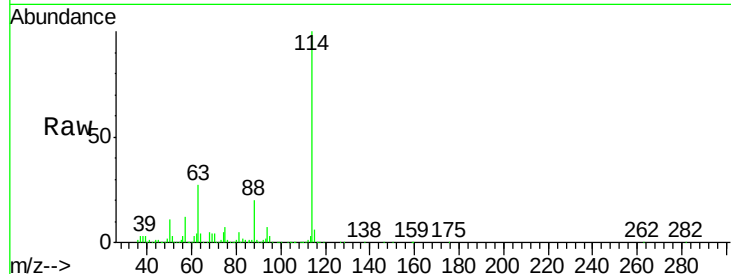
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.35 min Scan# 1948
 Delta R.T. -0.00 min
 Lab File: VL032366.D
 Acq: 16 Aug 2018 1:10

Instrument :
 MSVOA_L
 ClientSampleId :
 SS08-MIVIDLDUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.3	22.0	33.0
88	18.7	15.3	22.9

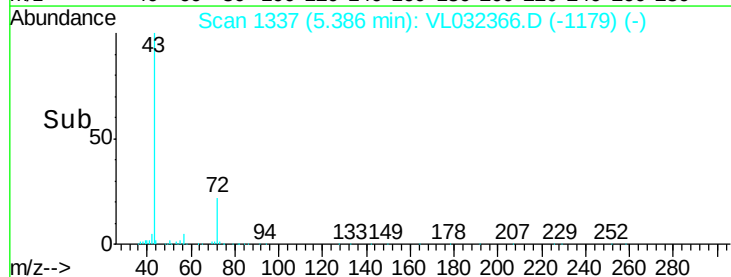
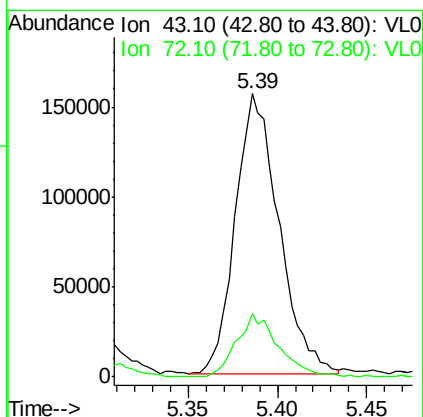
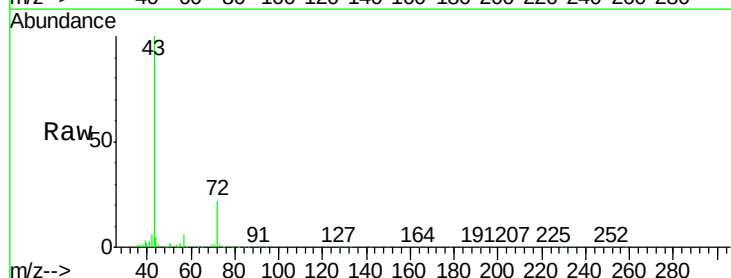
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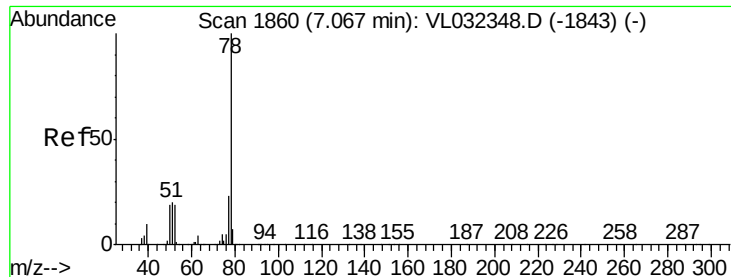
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 8/17/2018 2:06:47 PM



#34
 2-Butanone
 Concen: 0.92 ppbv
 RT: 5.39 min Scan# 1337
 Delta R.T. 0.01 min
 Lab File: VL032366.D
 Acq: 16 Aug 2018 1:10

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.0	17.9	26.9





#36

Benzene

Concen: 2.46 ppbv

RT: 7.06 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VL032366.D

Acq: 16 Aug 2018 1:10

Instrument :

MSVOA_L

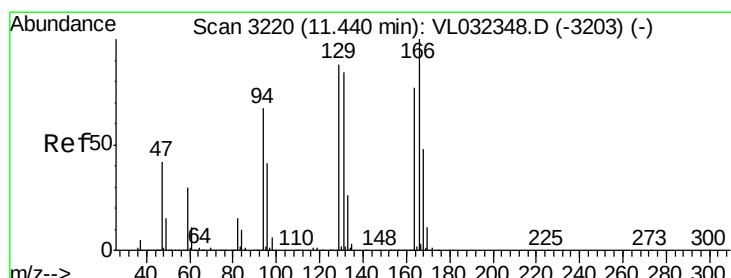
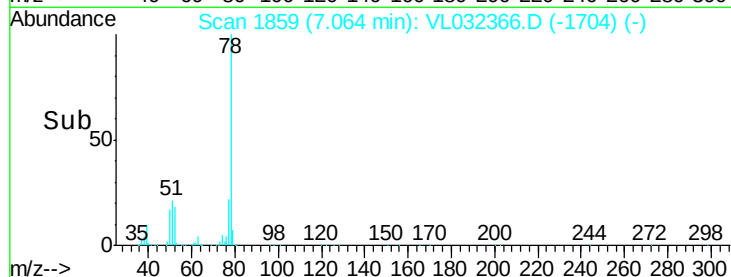
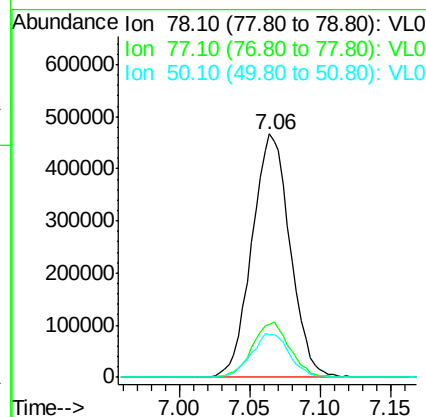
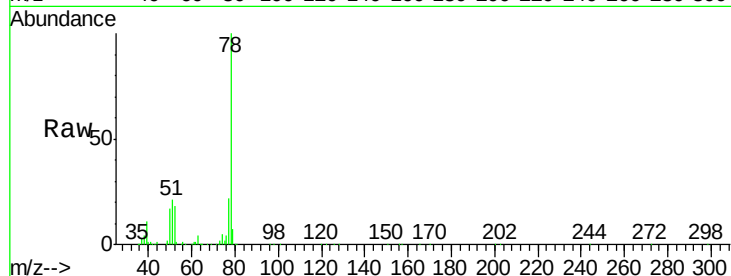
ClientSampleId :

SS08-MIVIDLDP

Tot Ion:	78	Resp:	884316
Ion Ratio	Lower	Upper	
78	100		
77	21.8	18.0	27.0
50	17.2	15.1	22.7

Manual Integrations
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#52

Tetrachloroethene

Concen: 92.16 ppbv

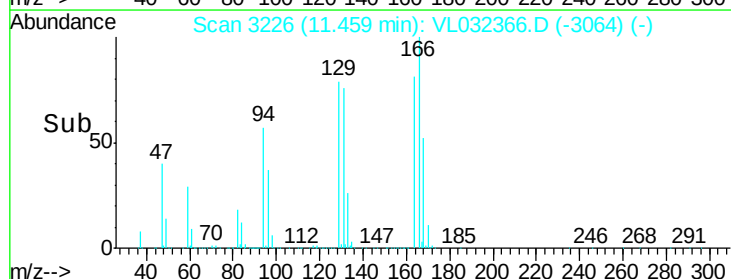
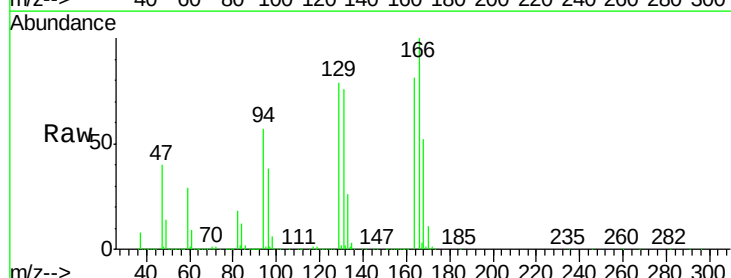
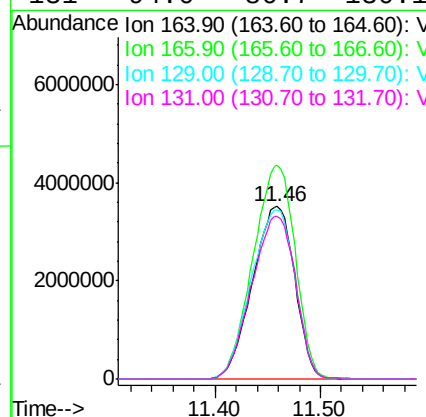
RT: 11.46 min Scan# 3226

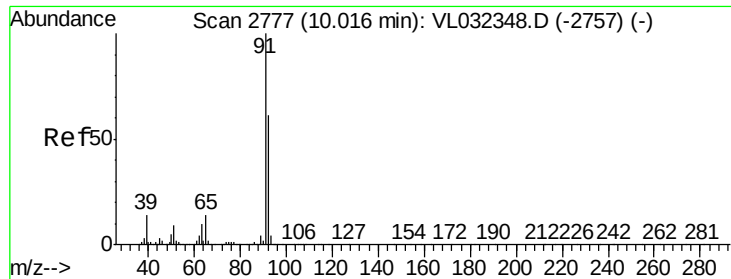
Delta R.T. 0.02 min

Lab File: VL032366.D

Acq: 16 Aug 2018 1:10

Tgt Ion:	164	Resp:	9774822
Ion Ratio	Lower	Upper	
164	100		
166	123.7	103.5	155.3
129	98.2	90.9	136.3
131	94.0	86.7	130.1





#53

Toluene

Concen: 14.47 ppbv

RT: 10.01 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VL032366.D

Acq: 16 Aug 2018 1:10

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVIDLDUP

Tot Ion: 91 Resp: 5704056

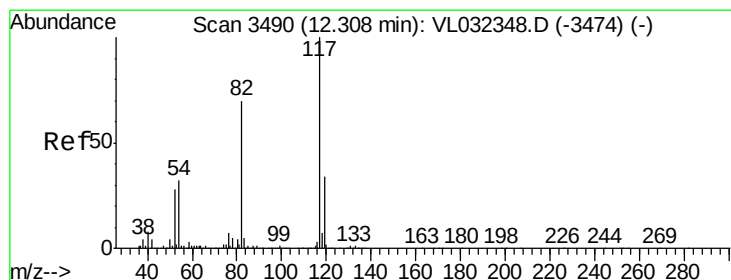
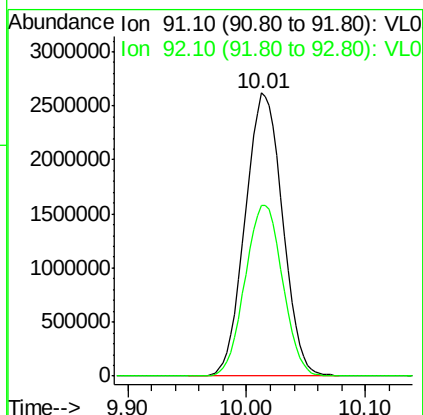
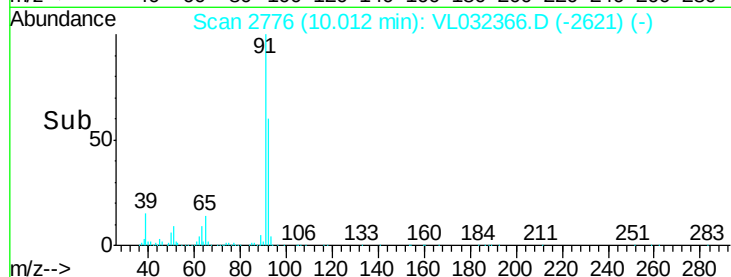
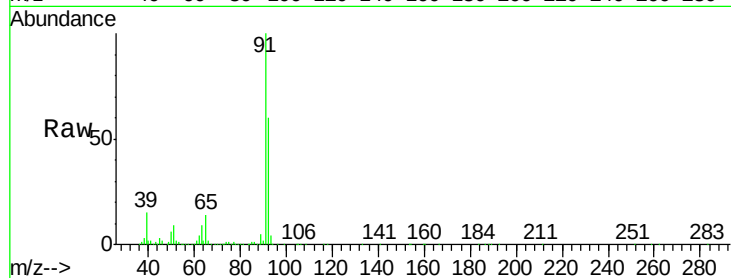
Ion Ratio Lower Upper

91 100

92 60.9 48.7 73.1

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.31 min Scan# 3491

Delta R.T. 0.00 min

Lab File: VL032366.D

Acq: 16 Aug 2018 1:10

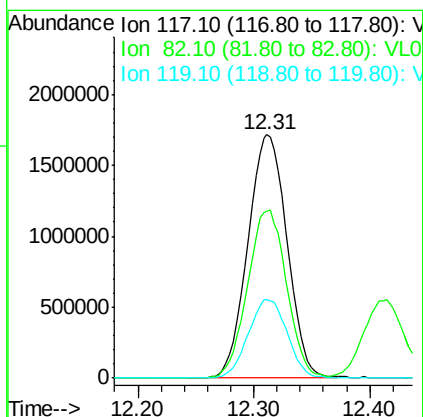
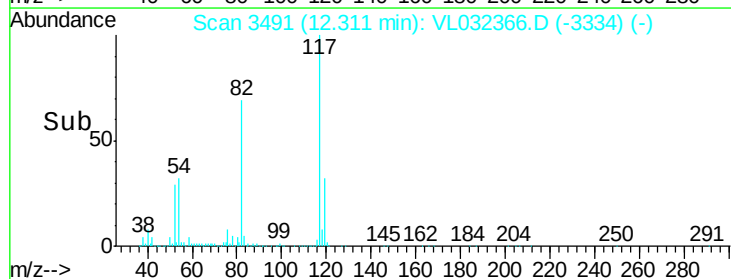
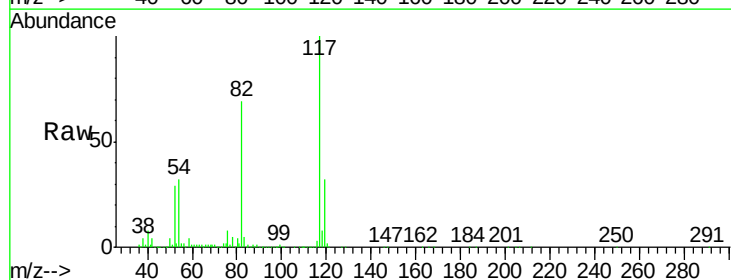
Tgt Ion: 117 Resp: 4022004

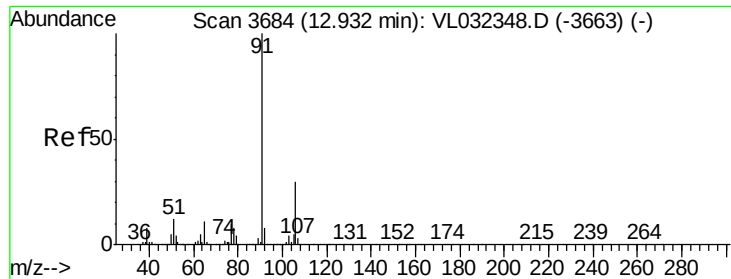
Ion Ratio Lower Upper

117 100

82 68.9 55.1 82.7

119 32.4 46.0 69.0#





#58

Ethyl Benzene

Concen: 4.47 ppbv

RT: 12.94 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VL032366.D

Acq: 16 Aug 2018 1:10

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVIDLDUP

Tot Ion: 91 Resp: 2163178

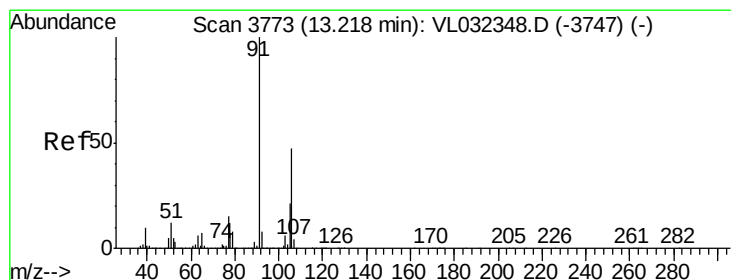
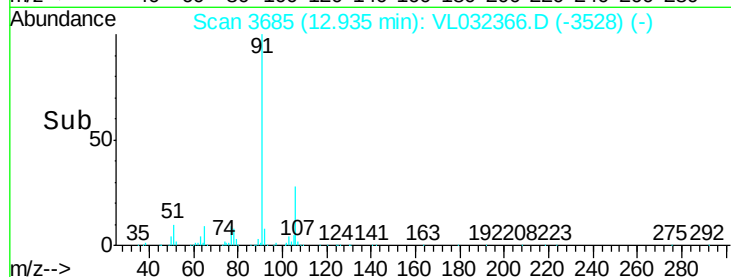
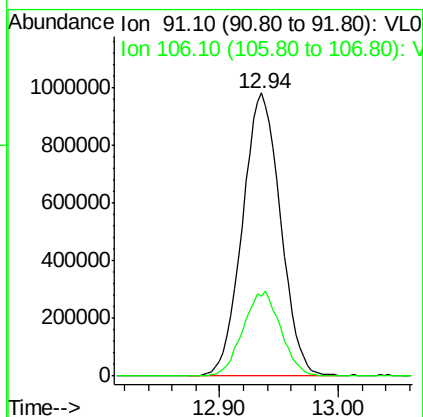
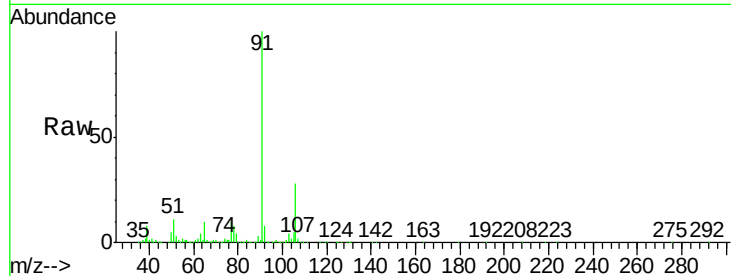
Ion Ratio Lower Upper

91 100

106 28.4 24.3 36.5

Manual Integrations
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#59

m/p-Xylene

Concen: 11.98 ppbv

RT: 13.19 min Scan# 3764

Delta R.T. -0.03 min

Lab File: VL032366.D

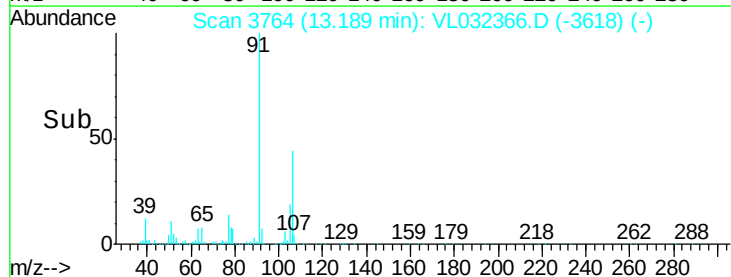
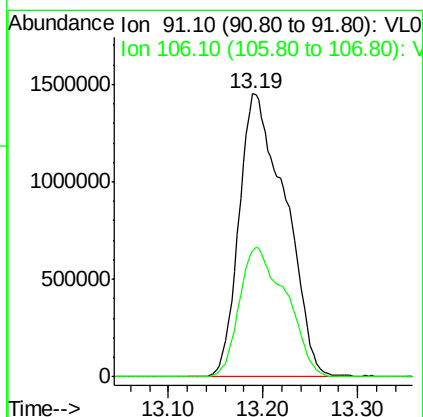
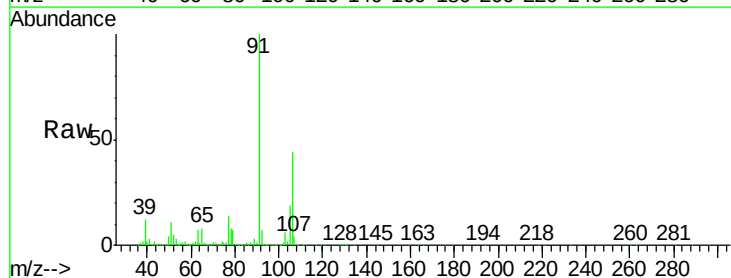
Acq: 16 Aug 2018 1:10

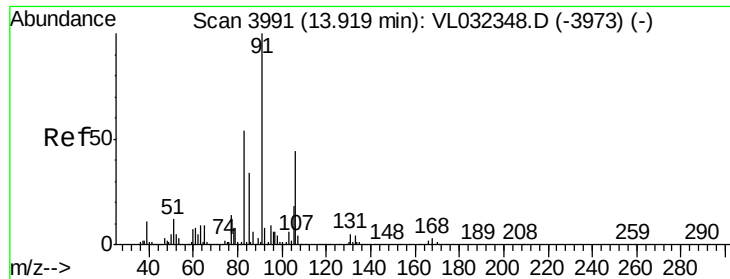
Tgt Ion: 91 Resp: 4926131

Ion Ratio Lower Upper

91 100

106 46.3 37.0 55.4





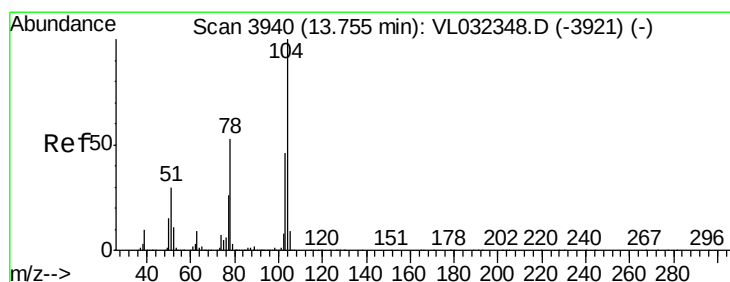
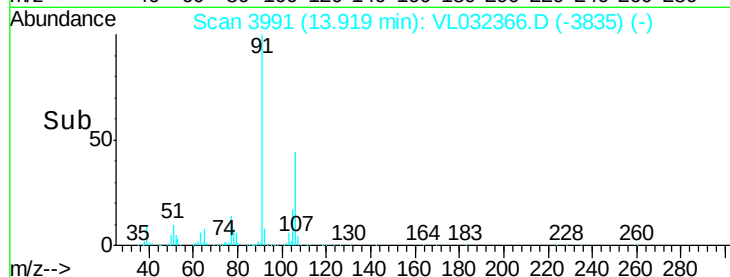
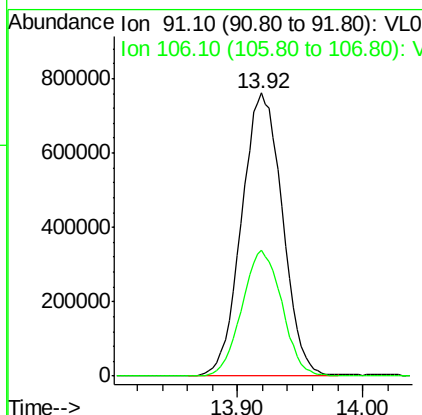
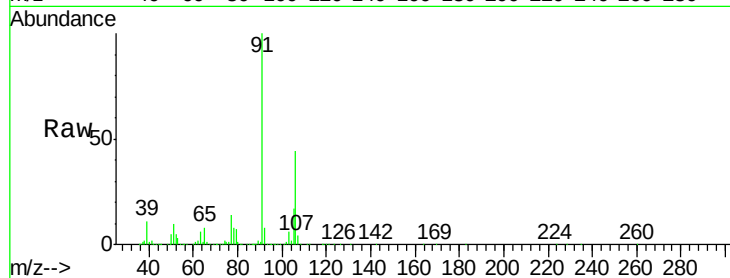
#60
o-Xylene
Concen: 4.27 ppbv
RT: 13.92 min Scan# 3991
Delta R.T. -0.00 min
Lab File: VL032366.D
Acq: 16 Aug 2018 1:10

Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVIDLDUP

Tot Ion: 91 Resp: 1725936
Ion Ratio Lower Upper
91 100
106 43.6 22.3 66.8

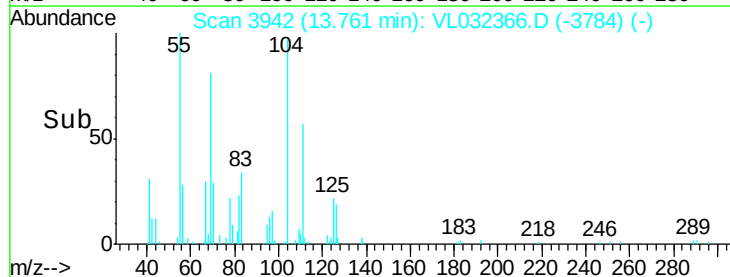
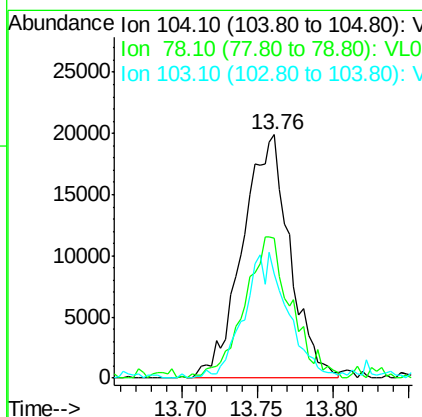
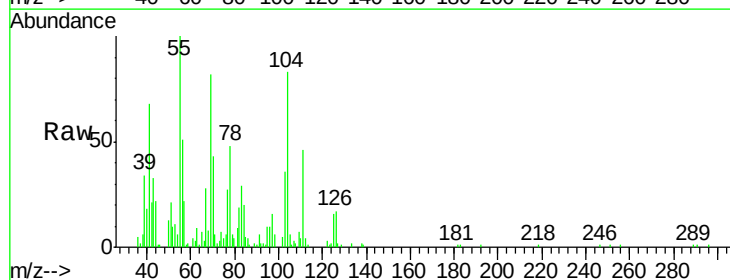
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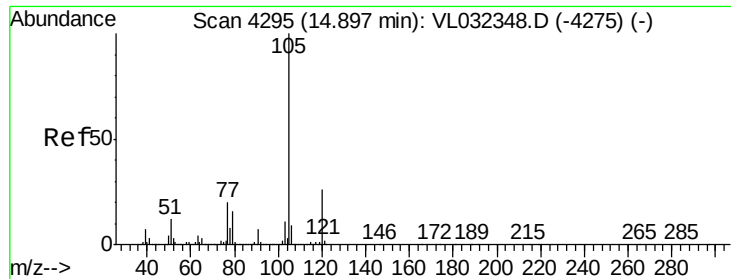
MMDadoda
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#61
Styrene
Concen: 0.15 ppbv m
RT: 13.76 min Scan# 3942
Delta R.T. 0.01 min
Lab File: VL032366.D
Acq: 16 Aug 2018 1:10

Tgt Ion: 104 Resp: 43262
Ion Ratio Lower Upper
104 100
78 57.2 42.6 64.0
103 48.0 38.0 57.0





#62

Isopropylbenzene

Concen: 0.40 ppbv

RT: 14.89 min Scan# 4294

Delta R.T. -0.00 min

Lab File: VL032366.D

Acq: 16 Aug 2018 1:10

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVIDLDUP

Tot Ion:105 Resp: 229994

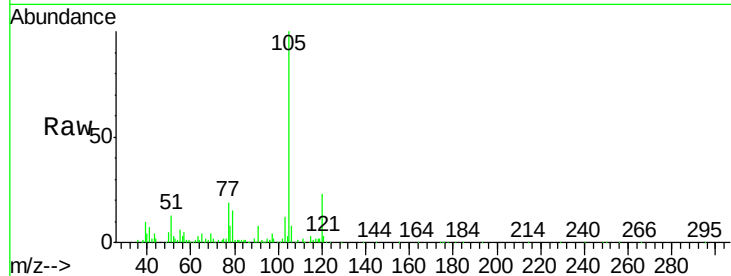
Ion Ratio Lower Upper

105 100

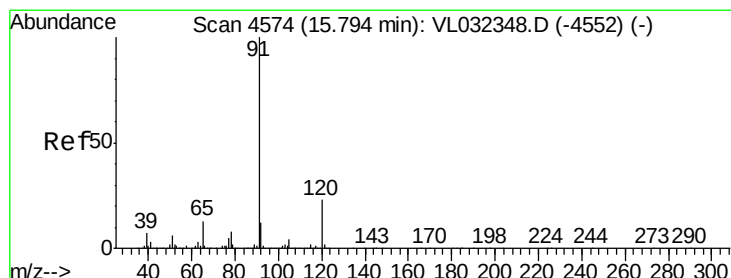
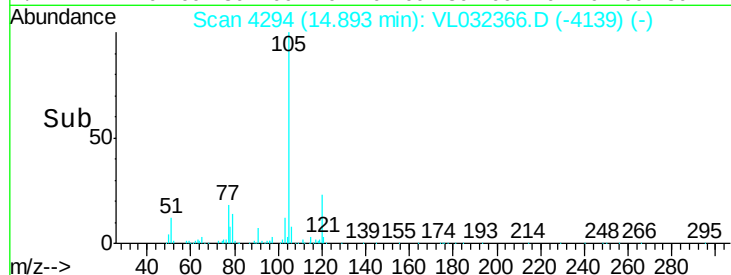
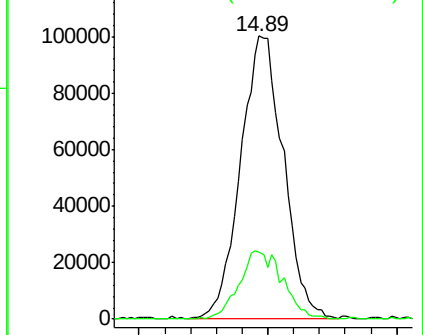
120 24.7 20.6 30.8

Manual Integrations
APPROVED

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Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.58 ppbv

RT: 15.79 min Scan# 4573

Delta R.T. -0.00 min

Lab File: VL032366.D

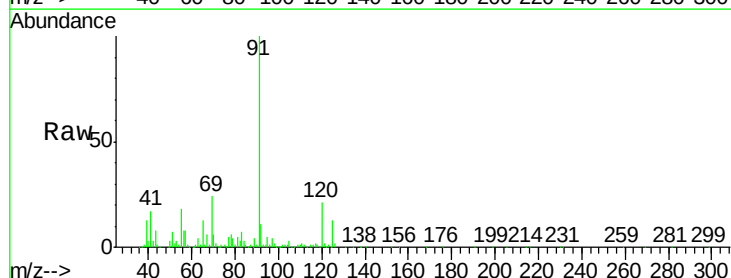
Acq: 16 Aug 2018 1:10

Tgt Ion:120 Resp: 86916

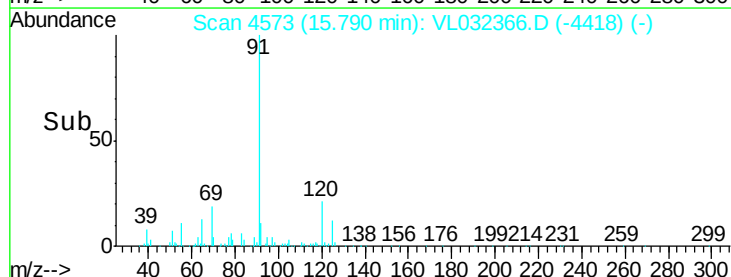
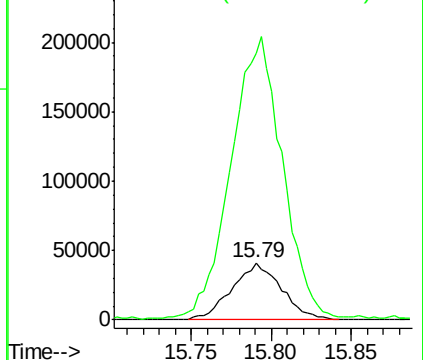
Ion Ratio Lower Upper

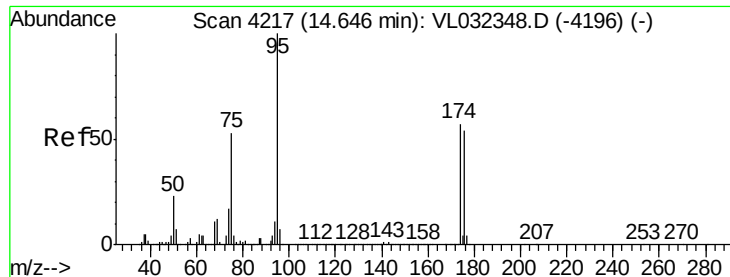
120 100

91 513.4 382.2 573.2



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): V





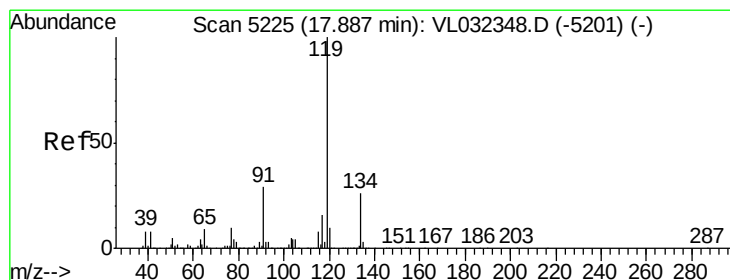
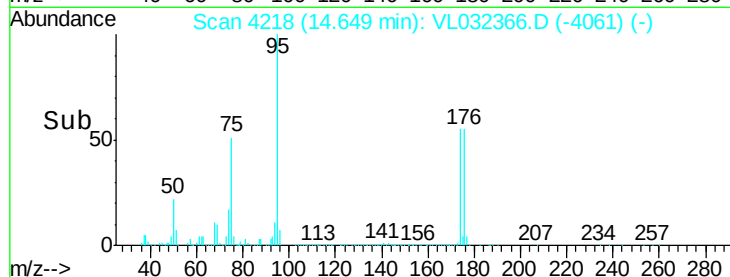
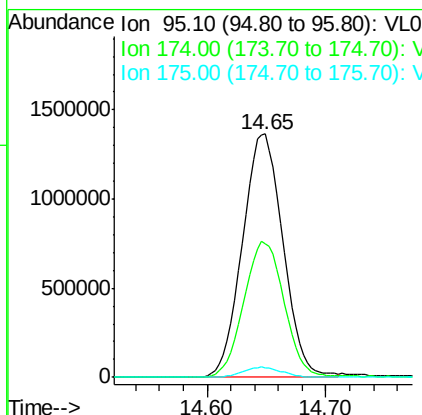
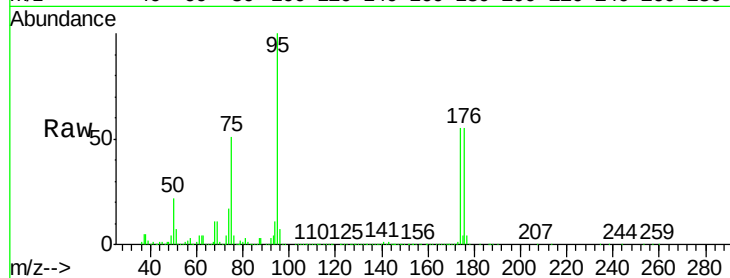
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.50 ppbv
 RT: 14.65 min Scan# 4218
 Delta R.T. 0.00 min
 Lab File: VL032366.D
 Acq: 16 Aug 2018 1:10

Instrument :
 MSVOA_L
 ClientSampleId :
 SS08-MIVIDLDUP

Tot Ion: 95 Resp: 3221878
 Ion Ratio Lower Upper
 95 100
 174 56.3 46.2 69.4
 175 4.1 3.4 5.0

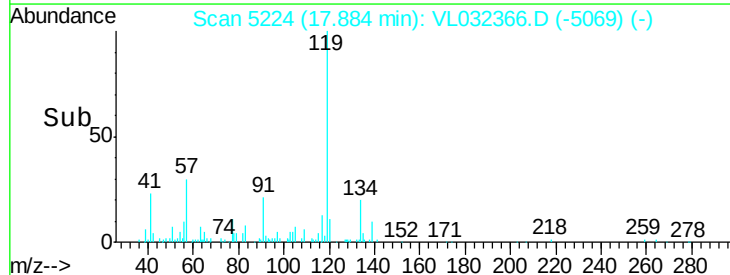
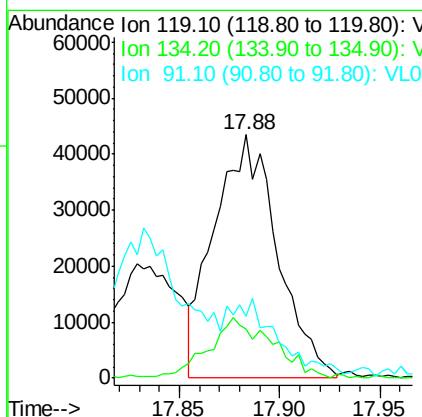
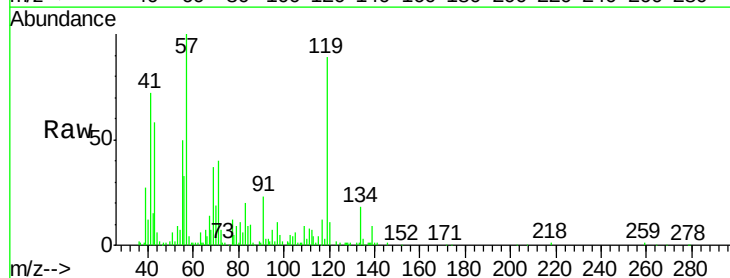
Manual Integrations
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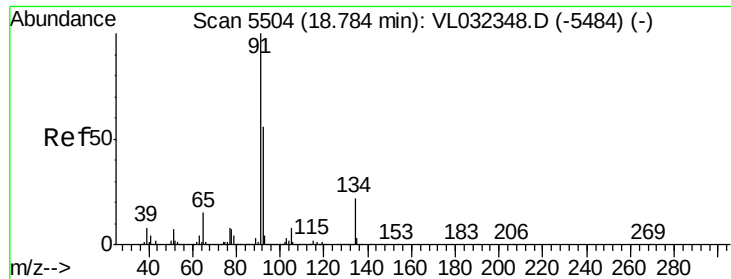
MMDadoda
 8/17/2018 2:06:47 PM



#69
 p-Isopropyltoluene
 Concen: 0.17 ppbv m
 RT: 17.88 min Scan# 5224
 Delta R.T. -0.00 min
 Lab File: VL032366.D
 Acq: 16 Aug 2018 1:10

Tgt Ion: 119 Resp: 94382
 Ion Ratio Lower Upper
 119 100
 134 0.0 20.4 30.6#
 91 0.0 23.6 35.4#





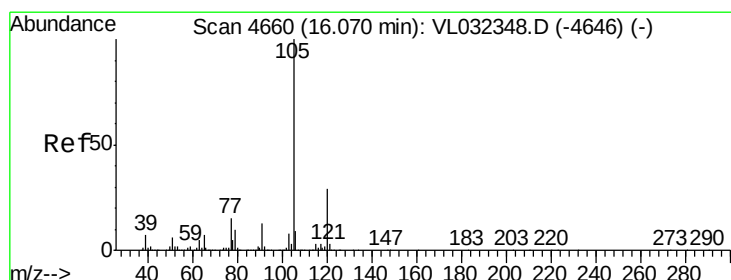
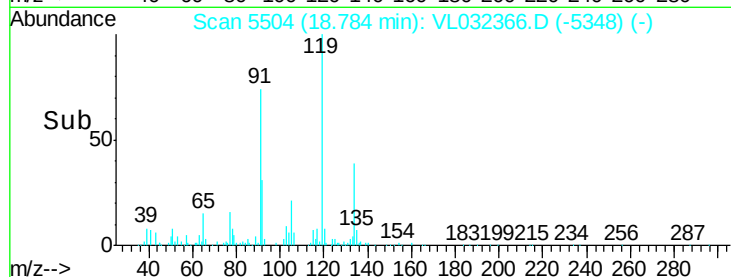
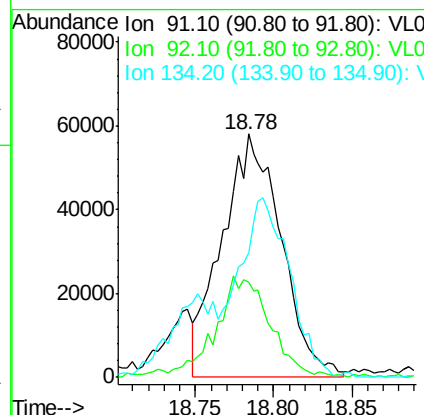
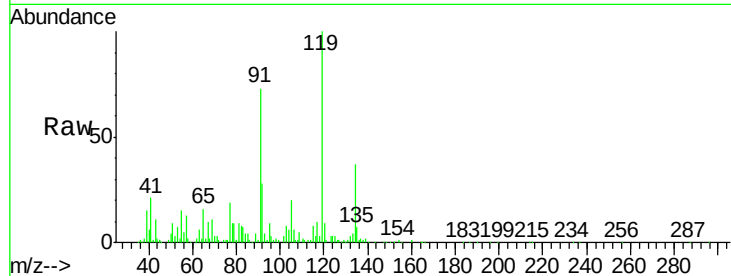
#70
n-Butylbenzene
Concen: 0.25 ppbv m
RT: 18.78 min Scan# 5504
Delta R.T. -0.00 min
Lab File: VL032366.D
Acq: 16 Aug 2018 1:10

Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVIDLDUP

Tot Ion	Ratio	Resp	Lower	Upper
91	100	153059		
92	0.0	43.9	65.9#	
134	89.3	17.3	25.9#	

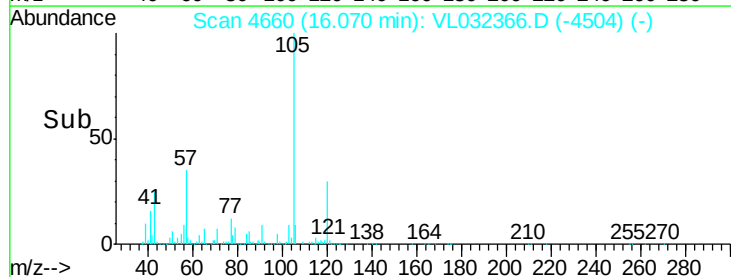
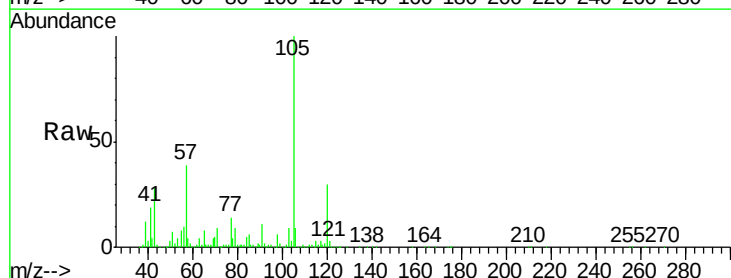
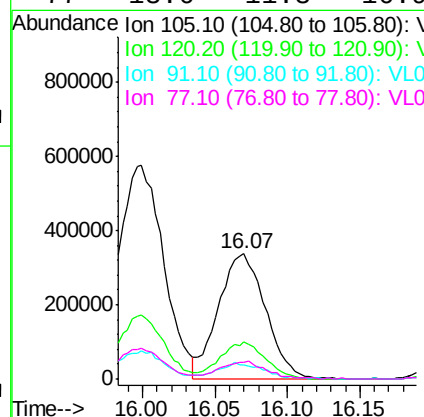
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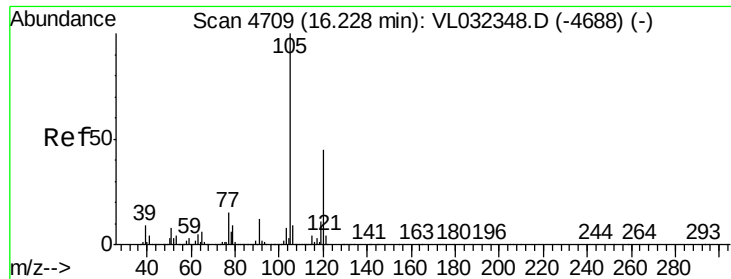
MMDadoda
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#72
4-Ethyltoluene
Concen: 1.68 ppbv
RT: 16.07 min Scan# 4660
Delta R.T. -0.00 min
Lab File: VL032366.D
Acq: 16 Aug 2018 1:10

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	754971		
120	28.5	23.4	35.0	
91	12.2	10.0	15.0	
77	13.6	11.3	16.9	





#73

1,3,5-Trimethylbenzene

Concen: 1.66 ppbv

RT: 16.22 min Scan# 4708

Delta R.T. -0.00 min

Lab File: VL032366.D

Acq: 16 Aug 2018 1:10

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVIDLDUP

Tot Ion:105 Resp: 718111

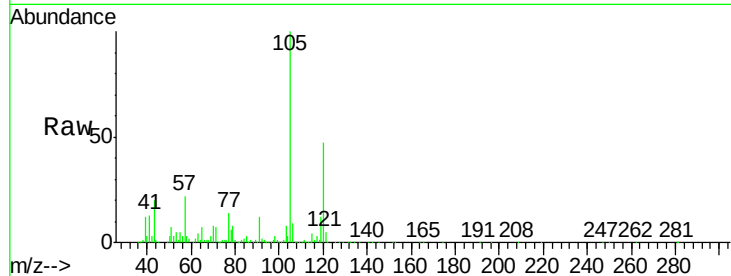
Ion Ratio Lower Upper

105 100

120 47.3 36.3 54.5

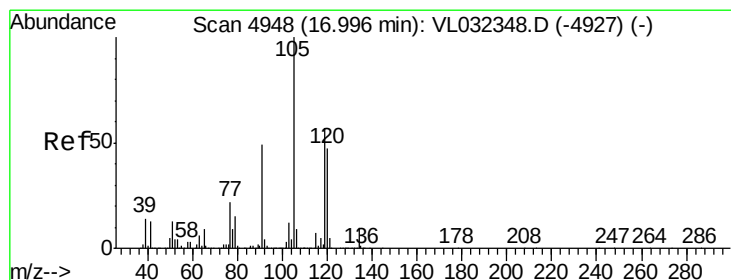
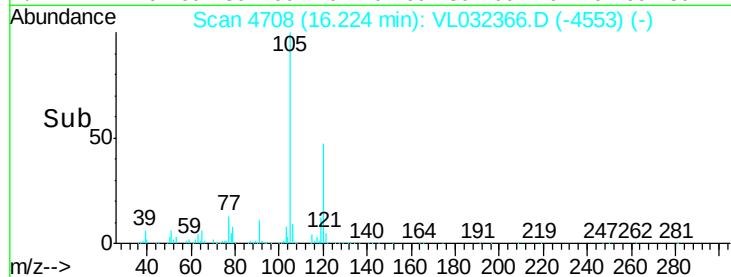
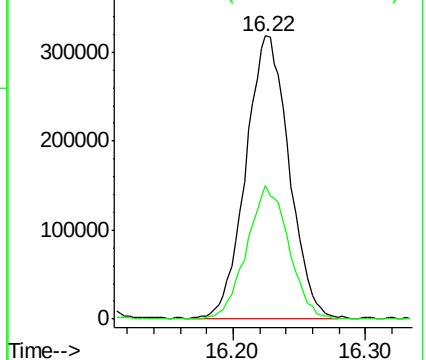
Manual Integrations
APPROVED

MMDadoda
8/17/2018 2:06:47 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 4.08 ppbv

RT: 16.99 min Scan# 4947

Delta R.T. -0.00 min

Lab File: VL032366.D

Acq: 16 Aug 2018 1:10

Tgt Ion:105 Resp: 1883299

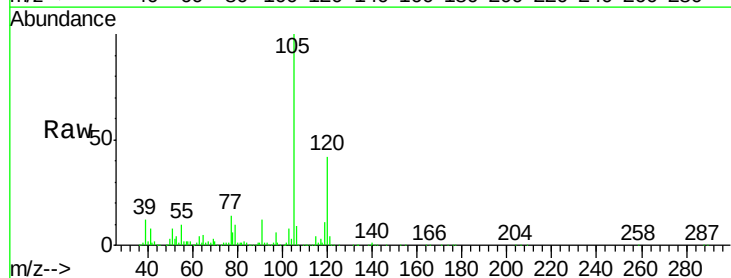
Ion Ratio Lower Upper

105 100

120 42.3 37.6 56.4

91 11.6 39.9 59.9#

77 13.7 17.8 26.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

