

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111418\
 Data File : VL032757.D
 Acq On : 14 Nov 2018 13:44
 Operator : SY/AP
 Sample : J5891-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IASC2

Manual Integrations
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 11/16/2018 1:29:55 PM

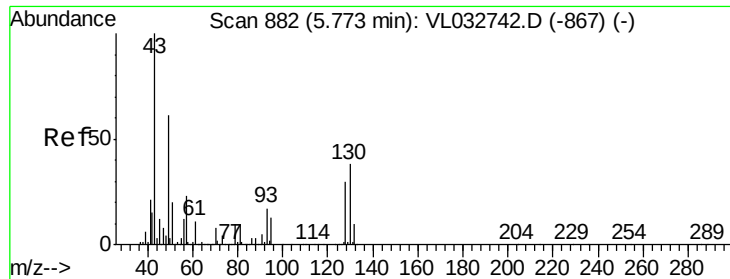
Quant Time: Nov 15 06:03:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1371692	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3453622	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3068880	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2270701	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	87481	0.444	ppbv	95
3) Chlorodifluoromethane	3.02	51	1008876	9.277	ppbv	95
4) Chloromethane	3.18	50	35858	0.595	ppbv	90
9) Propene	3.06	41	248693m	5.715	ppbv	
10) Heptane	8.25	43	119973	0.722	ppbv	95
11) Trichlorofluoromethane	4.01	101	65042	0.350	ppbv	96
13) Ethanol	3.69	45	13192712	925.523	ppbv	97
15) Acetone	3.91	43	1006749m	8.037	ppbv	
19) Isopropyl Alcohol	4.07	45	1945844	23.318	ppbv	99
20) Methylene Chloride	4.41	84	615394	9.490	ppbv	97
26) Hexane	5.79	57	862100	6.633	ppbv #	48
29) Chloroform	5.86	83	30465	0.132	ppbv	96
30) Cyclohexane	7.26	84	29716m	0.261	ppbv	
34) 2-Butanone	5.34	43	195921	1.094	ppbv	99
35) Carbon Tetrachloride	7.14	117	19017	0.068	ppbv #	96
36) Benzene	7.01	78	123930	0.451	ppbv	96
41) Tetrahydrofuran	6.17	42	43297m	0.421	ppbv	
44) 2,2,4-Trimethylpentane	7.99	57	430876	0.938	ppbv	89
52) Tetrachloroethene	11.38	164	5261m	0.055	ppbv	
53) Toluene	9.95	91	5825474	20.304	ppbv	99
58) Ethyl Benzene	12.87	91	214959	0.582	ppbv	98
59) m/p-Xylene	13.12	91	598261	1.820	ppbv	100
60) o-Xylene	13.85	91	232937	0.705	ppbv	99
61) Styrene	13.69	104	48560	0.226	ppbv	91
64) n-propylbenzene	15.73	120	21720	0.185	ppbv	78
69) p-Isopropyltoluene	17.82	119	121689m	0.265	ppbv	
72) 4-Ethyltoluene	16.00	105	100941	0.279	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.17	105	102147m	0.288	ppbv	
74) 1,2,4-Trimethylbenzene	16.93	105	290480m	0.766	ppbv	
79) Naphthalene	22.43	128	399292m	1.603	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.01 min

Lab File: VL032757.D

Acq: 14 Nov 2018 13:44

Instrument :

MSVOA_L

ClientSampleId :

IASC2

Tot Ion: 49 Resp: 1371692

Ion Ratio Lower Upper

49 100

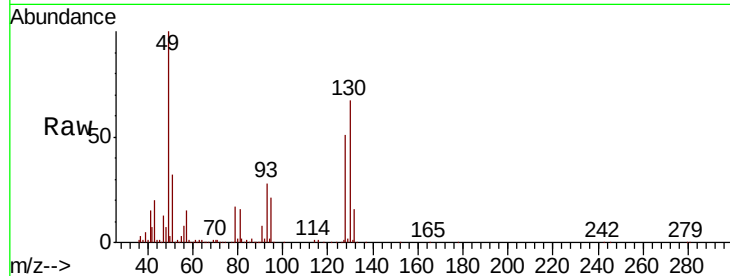
128 50.4 24.9 74.6

130 64.5 31.4 94.2

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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

5.77

800000

600000

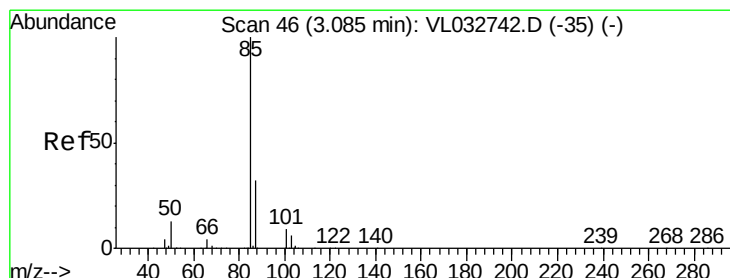
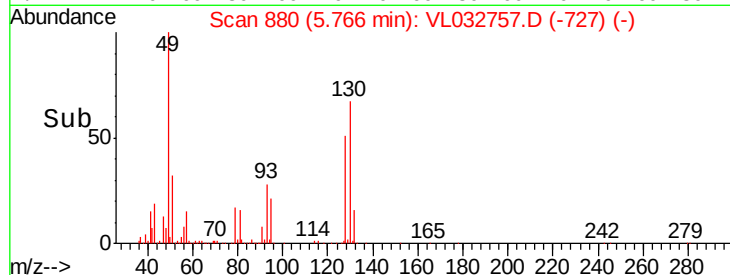
400000

200000

0

5.70 5.75 5.80 5.85

Time-->



#2

Dichlorodifluoromethane

Concen: 0.444 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032757.D

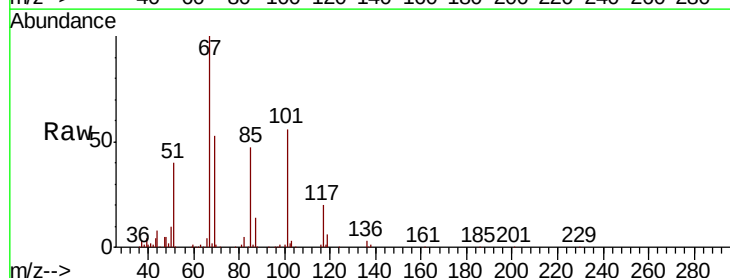
Acq: 14 Nov 2018 13:44

Tgt Ion: 85 Resp: 87481

Ion Ratio Lower Upper

85 100

87 29.9 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.08

60000

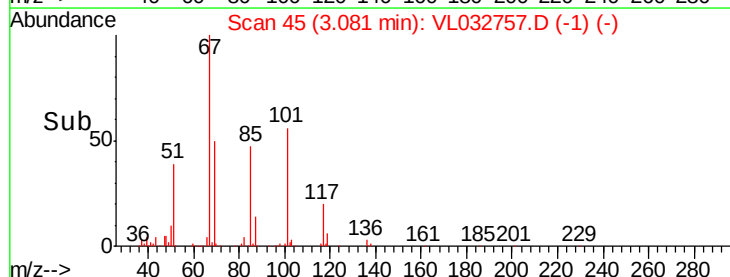
40000

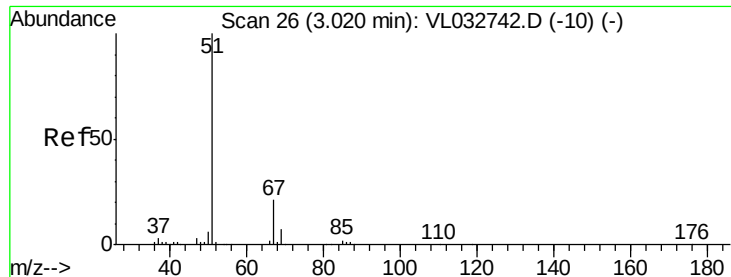
20000

0

3.05 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 9.277 ppbv

RT: 3.02 min Scan# 26

Delta R.T. -0.00 min

Lab File: VL032757.D

Acq: 14 Nov 2018 13:44

Tot Ion: 51 Resp: 1008876

Ion Ratio Lower Upper

51 100

67 17.9 16.1 24.1

Instrument :

MSVOA_L

ClientSampled :

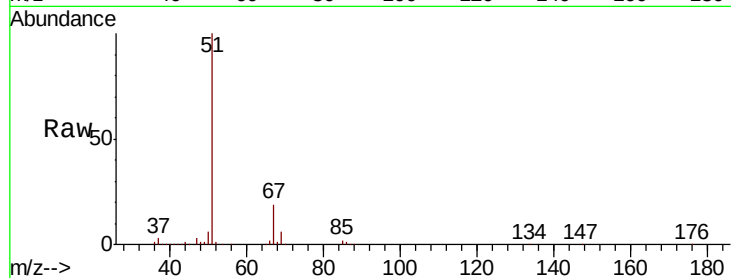
IASC2

Manual Integrations

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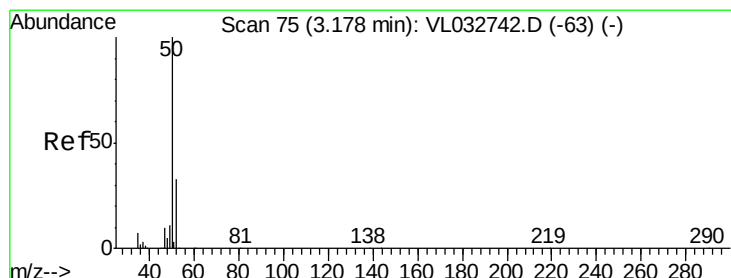
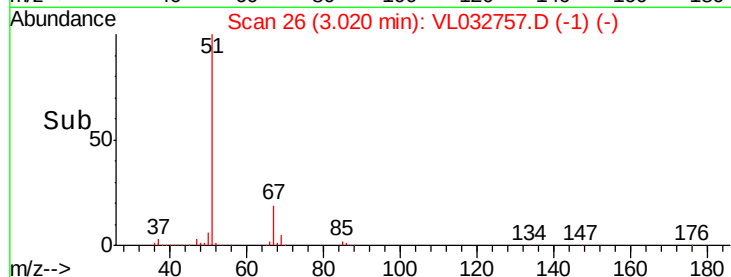
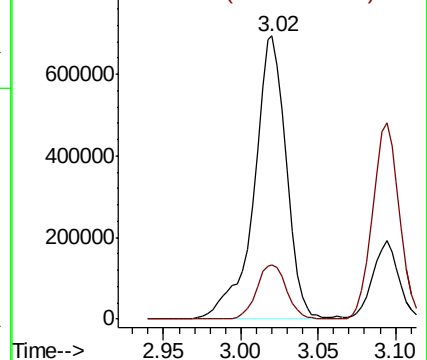
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.595 ppbv

RT: 3.18 min Scan# 75

Delta R.T. -0.00 min

Lab File: VL032757.D

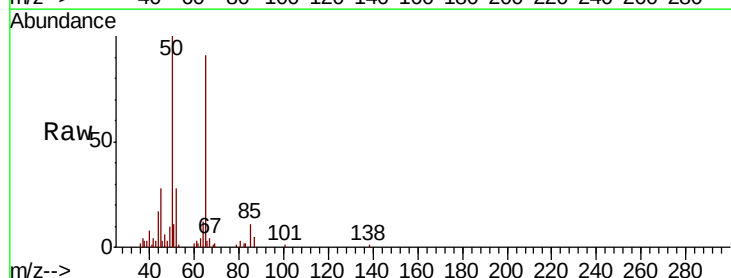
Acq: 14 Nov 2018 13:44

Tgt Ion: 50 Resp: 35858

Ion Ratio Lower Upper

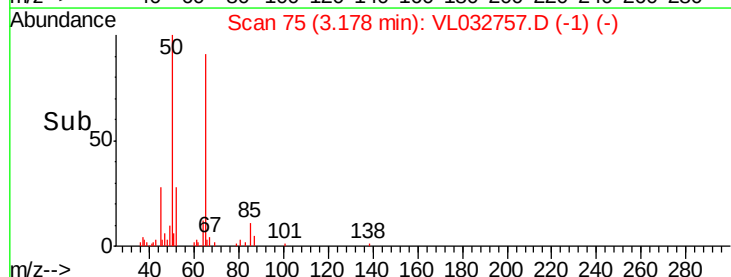
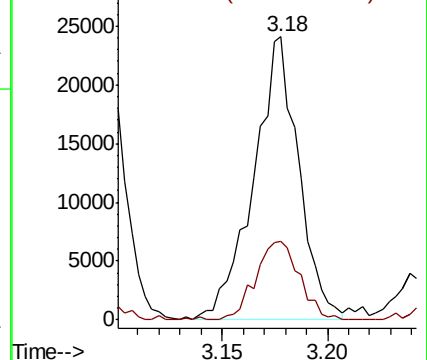
50 100

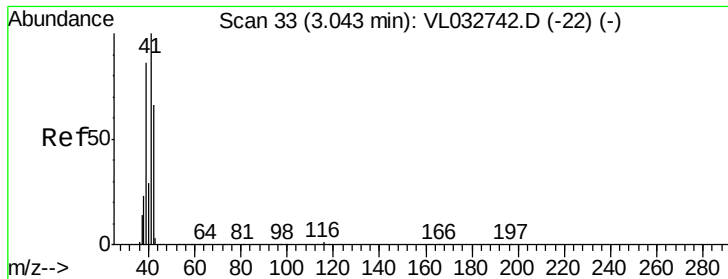
52 27.8 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 5.715 ppbv m

RT: 3.06 min Scan# 37

Delta R.T. 0.01 min

Lab File: VL032757.D

Acq: 14 Nov 2018 13:44

Instrument :

MSVOA_L

ClientSampled :

IASC2

Tot Ion: 41 Resp: 248693

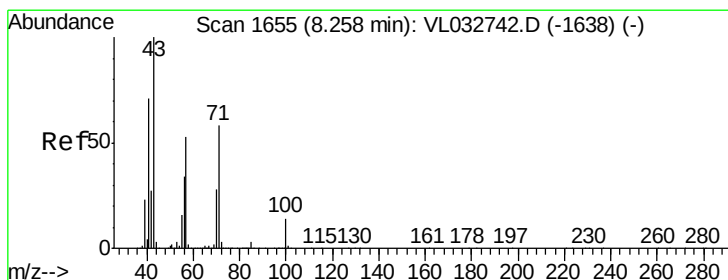
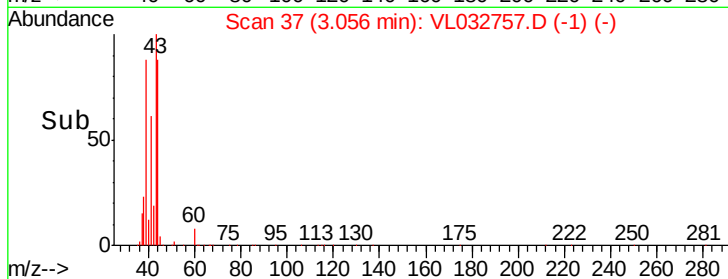
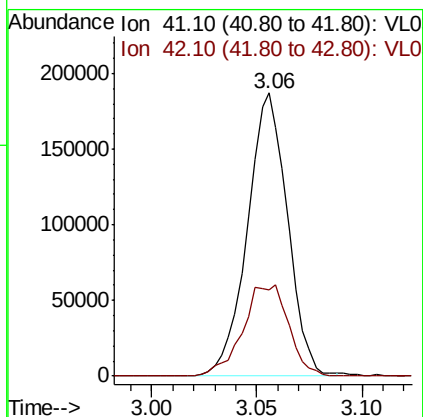
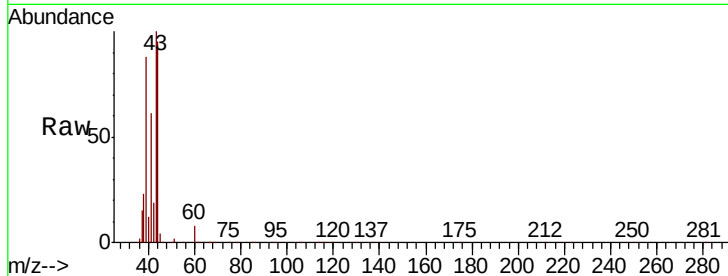
Ion Ratio Lower Upper

41 100

42 60.2 55.0 82.6

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#10

Heptane

Concen: 0.722 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VL032757.D

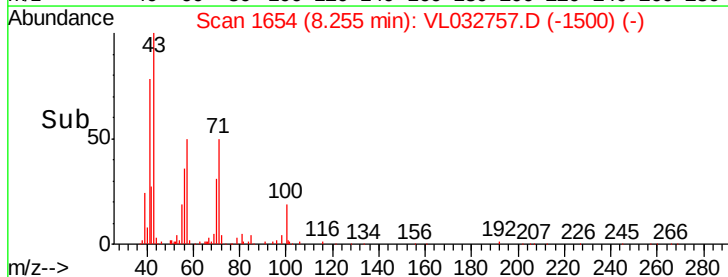
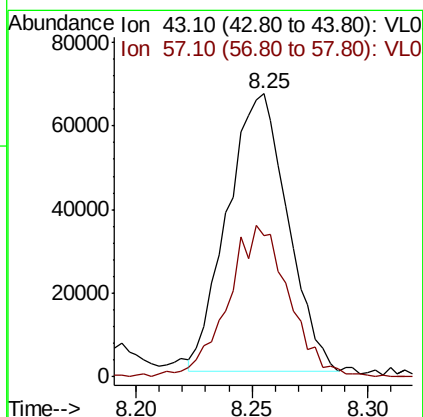
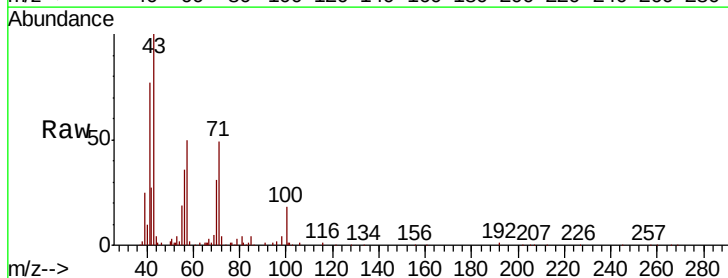
Acq: 14 Nov 2018 13:44

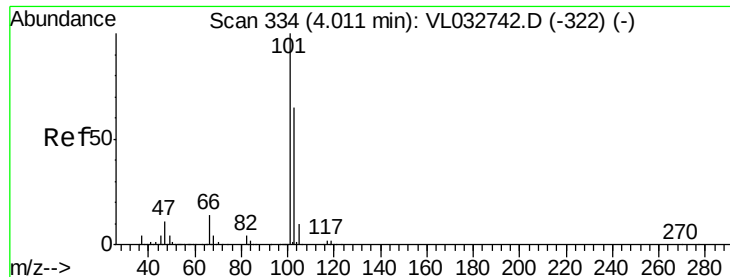
Tgt Ion: 43 Resp: 119973

Ion Ratio Lower Upper

43 100

57 55.8 41.8 62.8





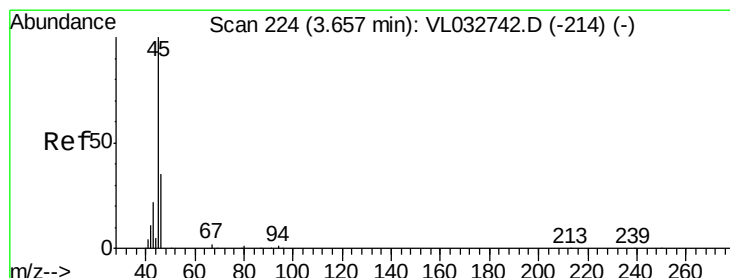
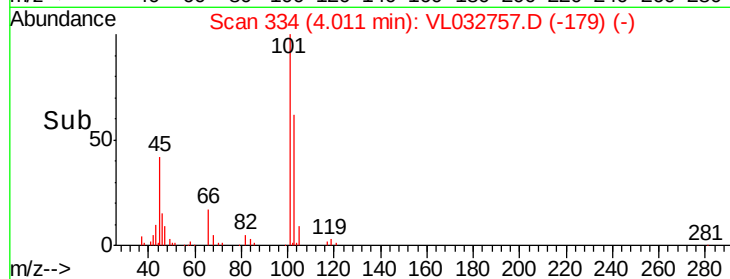
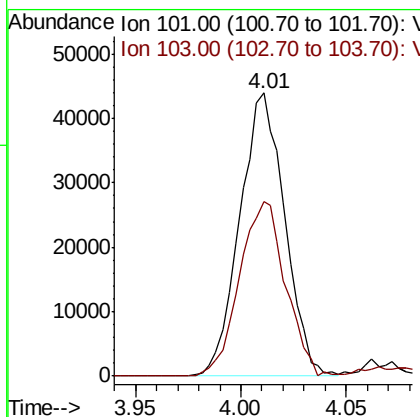
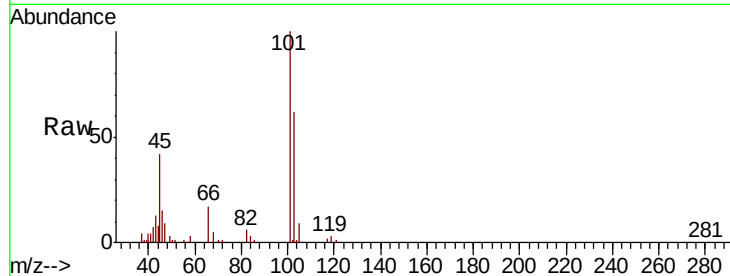
#11
 Trichlorofluoromethane
 Concen: 0.350 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. -0.00 min
 Lab File: VL032757.D
 Acq: 14 Nov 2018 13:44

Instrument :
 MSVOA_L
 ClientSampled :
 IASC2

Tot Ion:101 Resp: 65042
 Ion Ratio Lower Upper
 101 100
 103 61.7 51.6 77.4

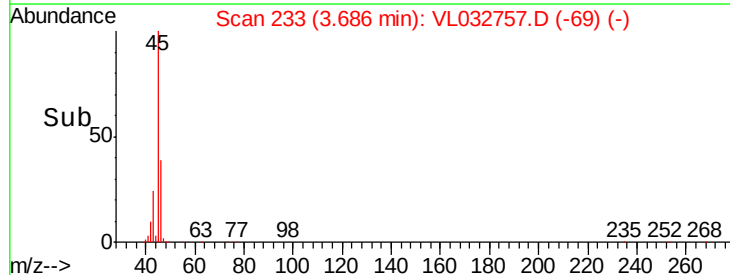
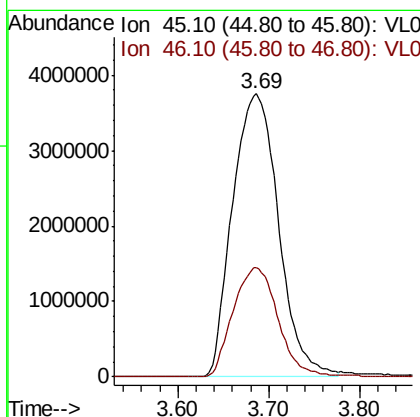
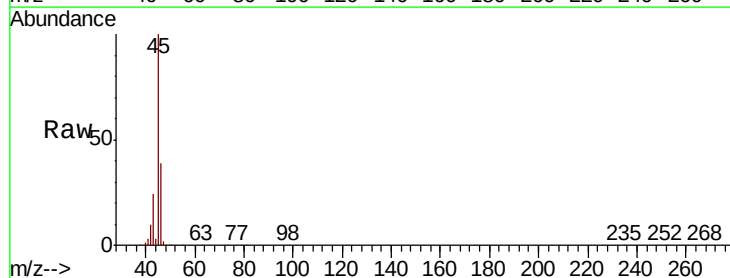
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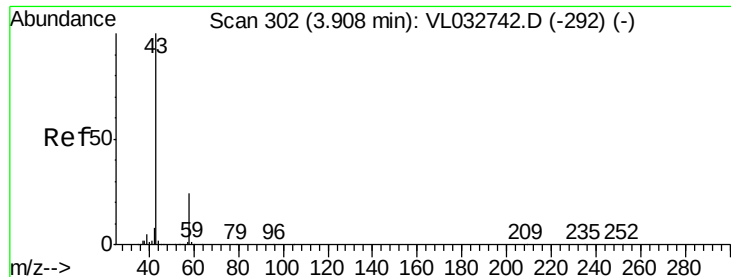
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#13
 Ethanol
 Concen: 925.523 ppbv
 RT: 3.69 min Scan# 233
 Delta R.T. 0.03 min
 Lab File: VL032757.D
 Acq: 14 Nov 2018 13:44

Tgt Ion: 45 Resp:13192712
 Ion Ratio Lower Upper
 45 100
 46 38.0 14.5 57.9





#15

Acetone

Concen: 8.037 ppbv m

RT: 3.91 min Scan# 302

Delta R.T. -0.00 min

Lab File: VL032757.D

Acq: 14 Nov 2018 13:44

Tot Ion: 43 Resp: 1006749

Ion Ratio Lower Upper

43 100

58 30.7 21.1 31.7

Instrument :

MSVOA_L

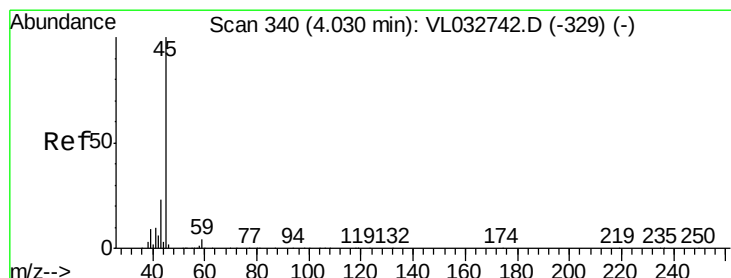
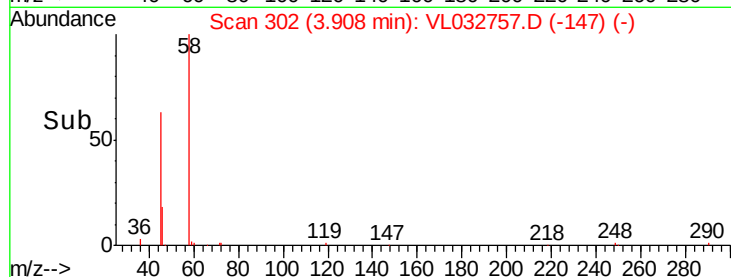
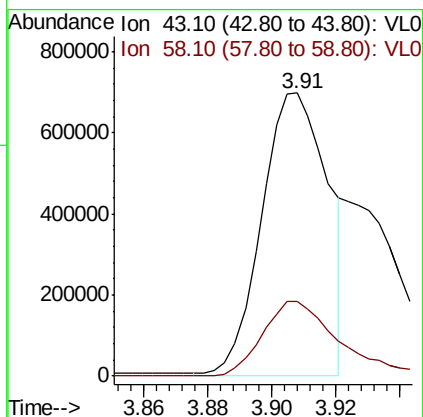
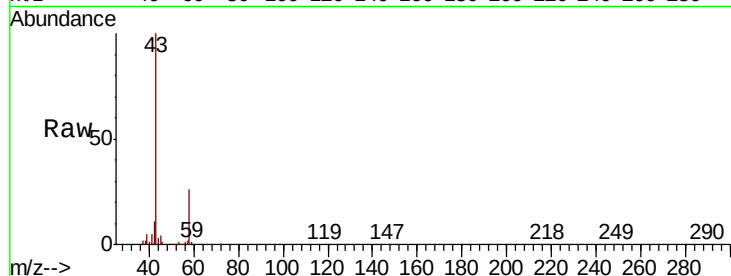
ClientSampled :

IASC2

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#19

Isopropyl Alcohol

Concen: 23.318 ppbv

RT: 4.07 min Scan# 351

Delta R.T. 0.04 min

Lab File: VL032757.D

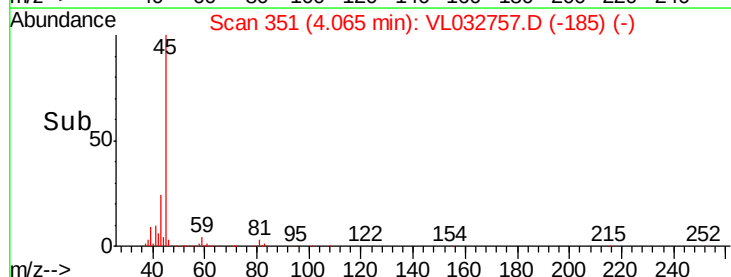
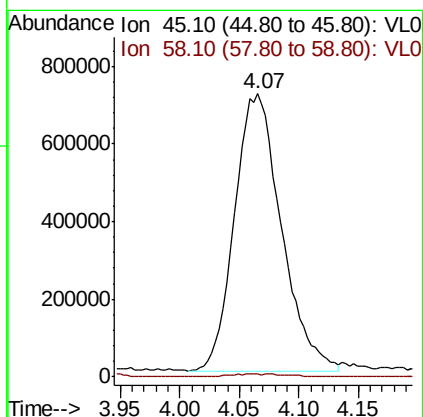
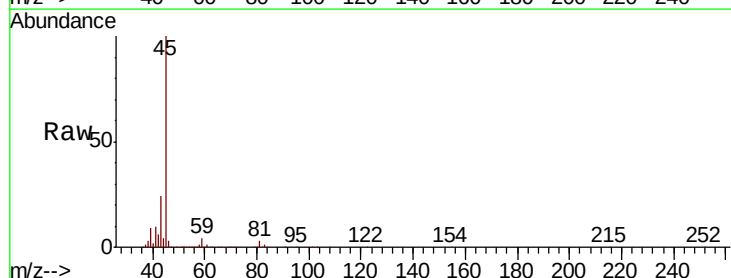
Acq: 14 Nov 2018 13:44

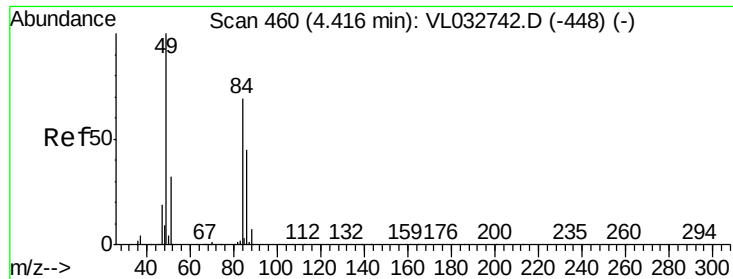
Tgt Ion: 45 Resp: 1945844

Ion Ratio Lower Upper

45 100

58 1.4 1.4 2.0





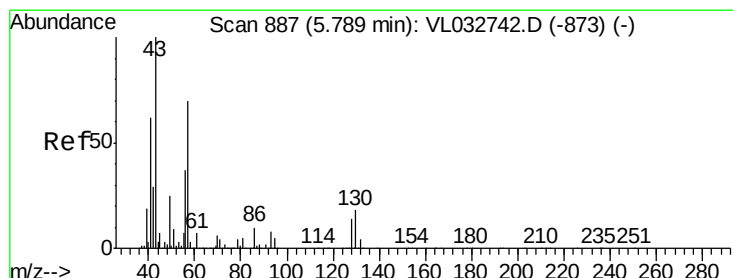
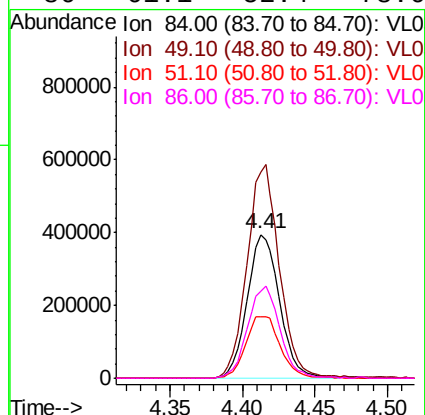
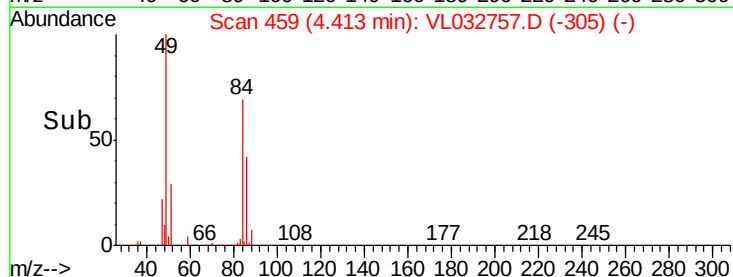
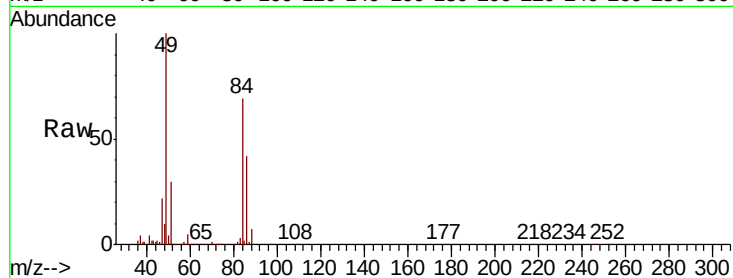
#20
Methvlene Chloride
Concen: 9.490 ppbv
RT: 4.41 min Scan# 459
Delta R.T. -0.00 min
Lab File: VL032757.D
Acq: 14 Nov 2018 13:44

Instrument :
MSVOA_L
ClientSampleId :
IASC2

Tot Ion:	84	Resp:	615394
Ion	Ratio	Lower	Upper
84	100		
49	144.1	115.8	173.6
51	42.8	36.9	55.3
86	61.1	52.4	78.6

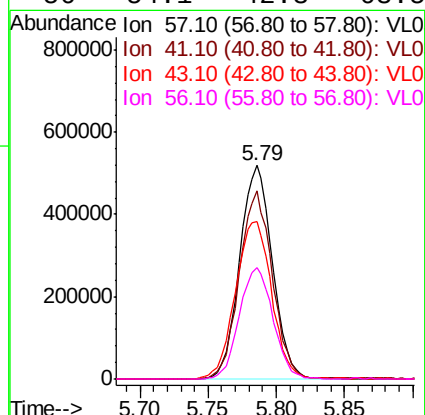
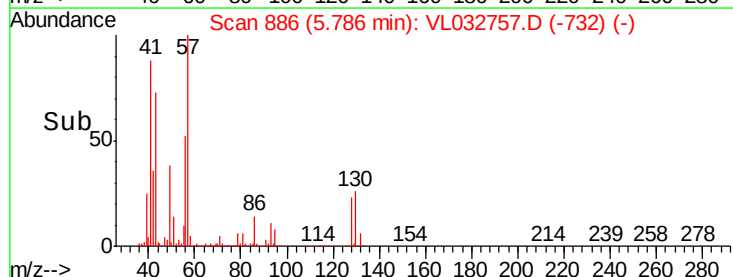
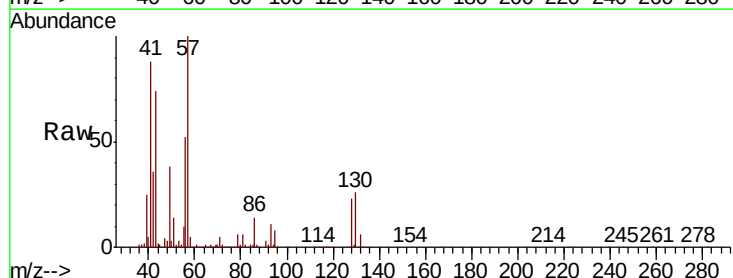
Manual Integrations
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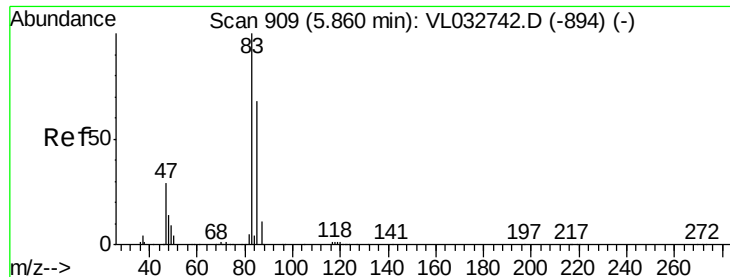
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#26
Hexane
Concen: 6.633 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032757.D
Acq: 14 Nov 2018 13:44

Tgt Ion:	57	Resp:	862100
Ion	Ratio	Lower	Upper
57	100		
41	89.4	70.3	105.5
43	82.1	174.0	261.0#
56	54.1	42.3	63.5





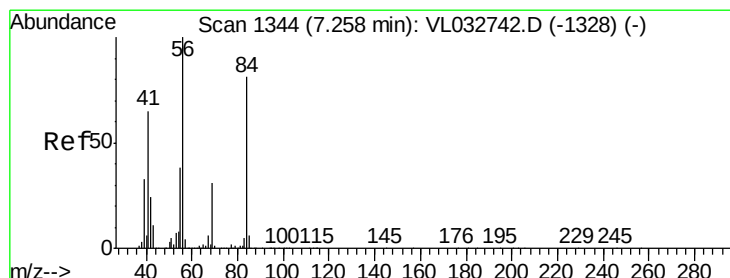
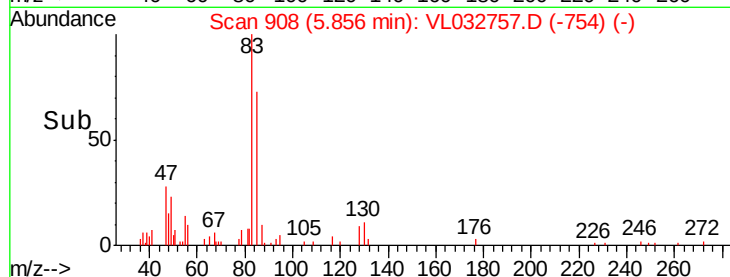
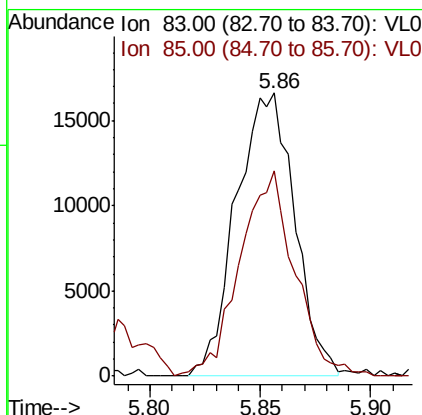
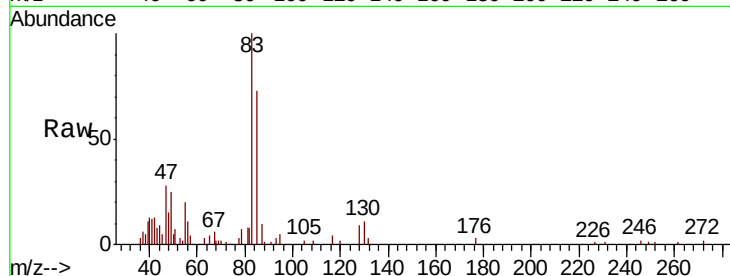
#29
Chloroform
Concen: 0.132 ppbv
RT: 5.86 min Scan# 908
Delta R.T. -0.00 min
Lab File: VL032757.D
Acq: 14 Nov 2018 13:44

Instrument :
MSVOA_L
ClientSampleId :
IASC2

Tot Ion	83	Resp	30465
Ion Ratio	100	Lower	Upper
83	100		
85	71.2	54.2	81.4

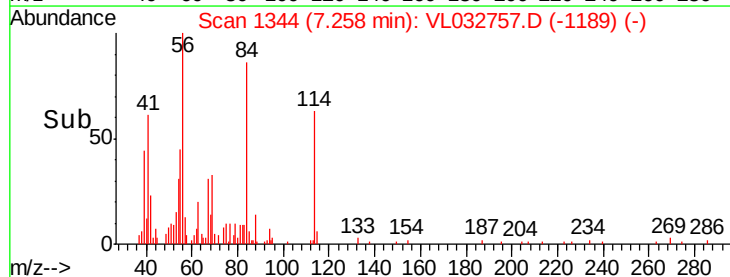
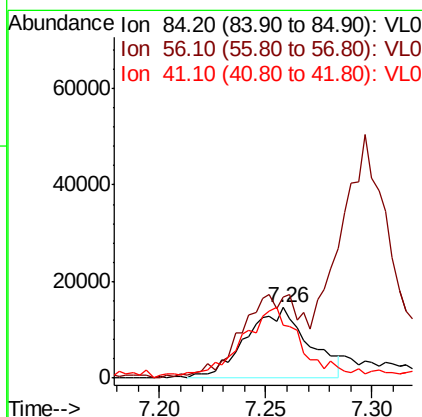
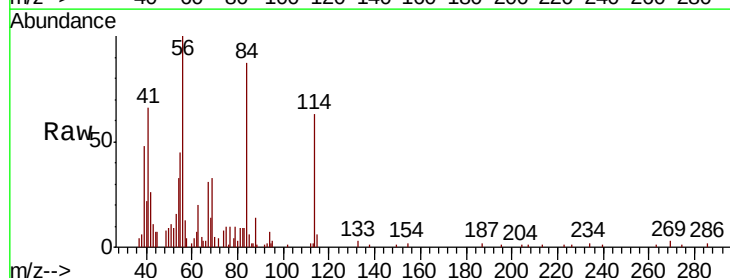
Manual Integrations
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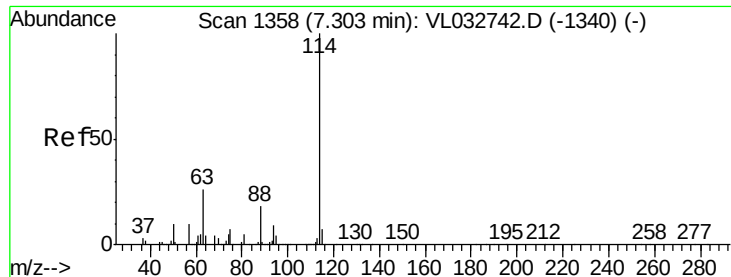
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#30
Cyclohexane
Concen: 0.261 ppbv m
RT: 7.26 min Scan# 1344
Delta R.T. -0.00 min
Lab File: VL032757.D
Acq: 14 Nov 2018 13:44

Tgt Ion	84	Resp	29716
Ion Ratio	100	Lower	Upper
84	100		
56	0.0	105.0	157.4#
41	0.0	65.3	97.9#





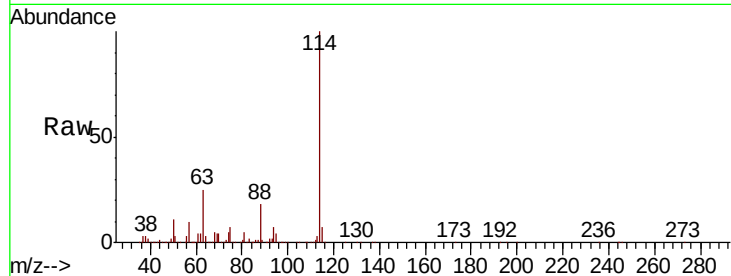
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.01 min
 Lab File: VL032757.D
 Acq: 14 Nov 2018 13:44

Instrument :
 MSVOA_L
 ClientSampled :
 IASC2

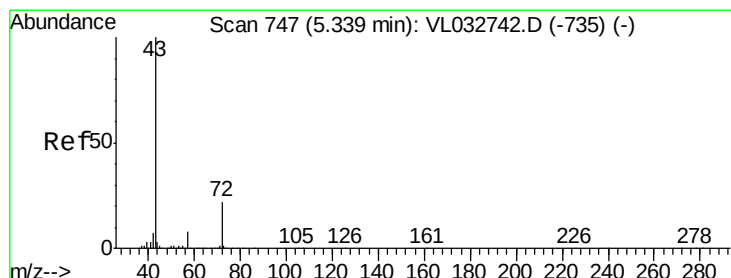
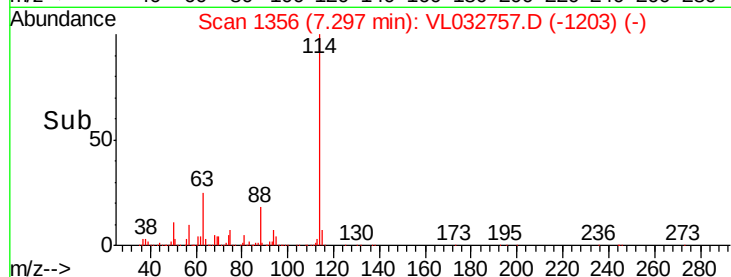
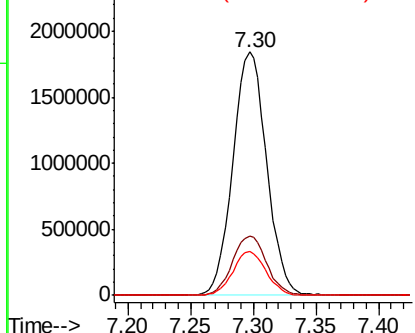
Tot Ion	Ratio	Lower	Upper
114	100		
63	24.9	20.9	31.3
88	17.9	14.4	21.6

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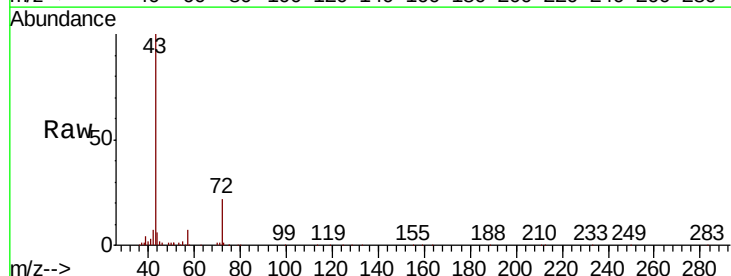


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

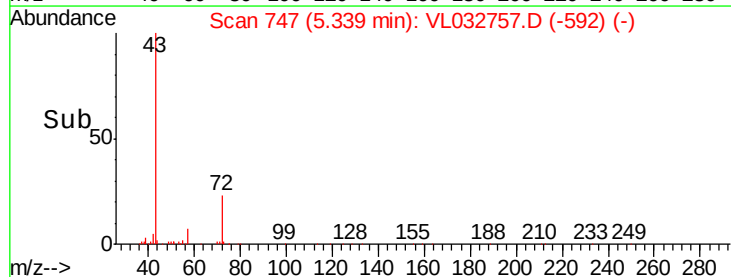
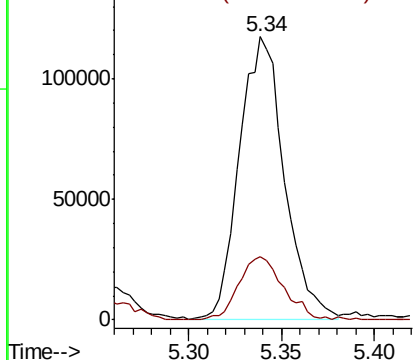


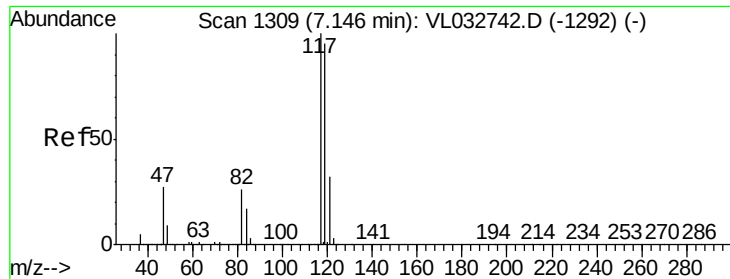
#34
 2-Butanone
 Concen: 1.094 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. -0.00 min
 Lab File: VL032757.D
 Acq: 14 Nov 2018 13:44

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.4	27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.068 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. -0.01 min

Lab File: VL032757.D

Acq: 14 Nov 2018 13:44

Instrument :

MSVOA_L

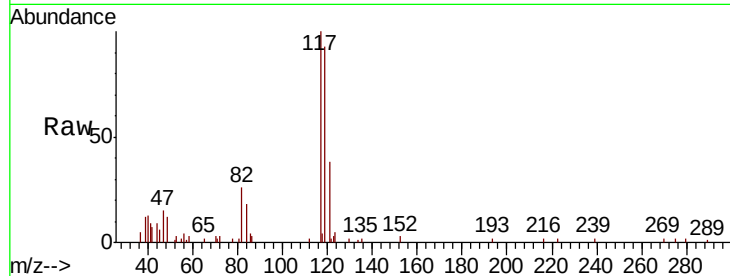
ClientSampleId :

IASC2

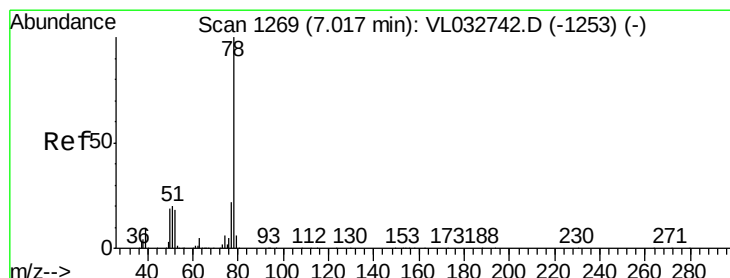
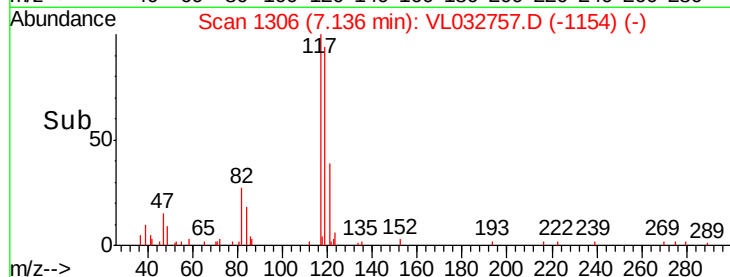
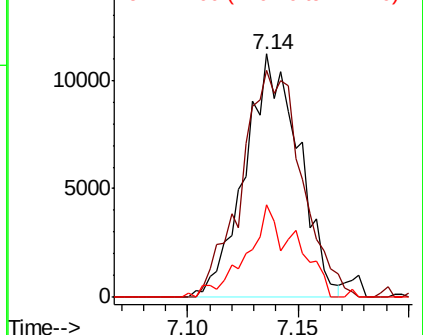
Tot Ion:	117	Resp:	19017
Ion Ratio	Lower	Upper	
117	100		
119	93.0	76.1	114.1
121	38.1	25.4	38.0#

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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.451 ppbv

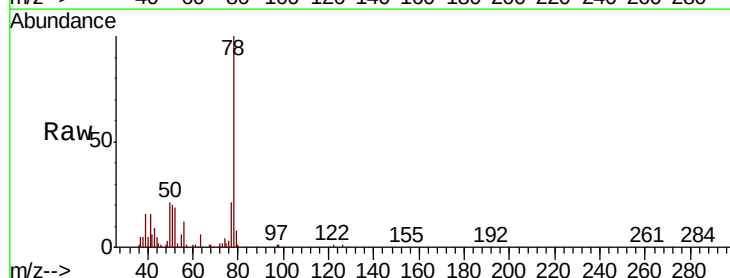
RT: 7.01 min Scan# 1266

Delta R.T. -0.01 min

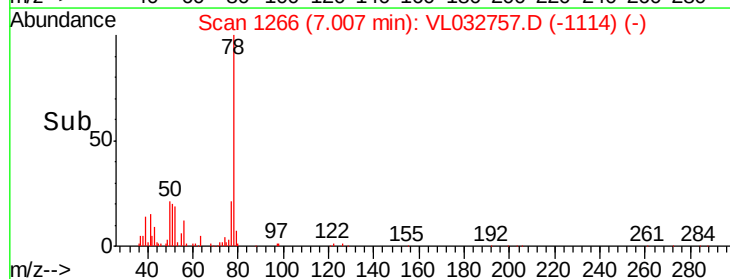
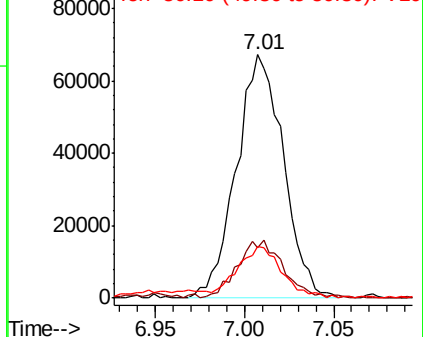
Lab File: VL032757.D

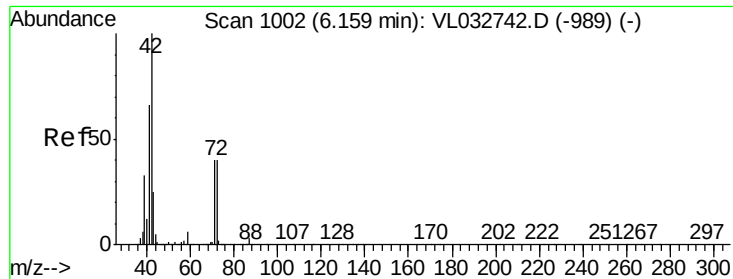
Acq: 14 Nov 2018 13:44

Tgt Ion:	78	Resp:	123930
Ion Ratio	Lower	Upper	
78	100		
77	20.0	17.8	26.8
50	20.9	15.4	23.0



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





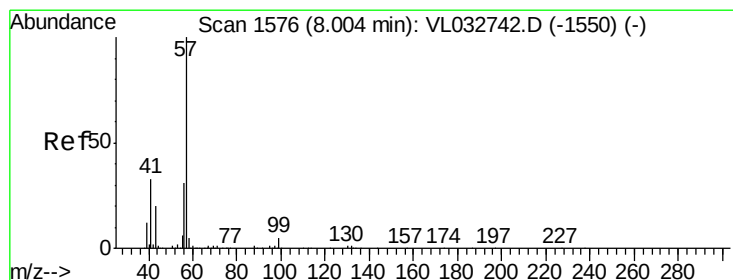
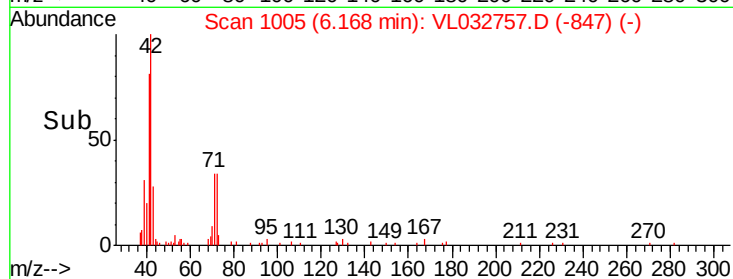
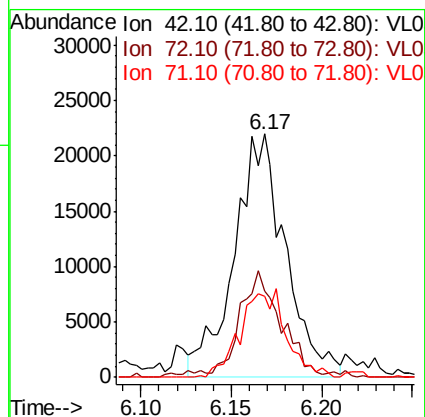
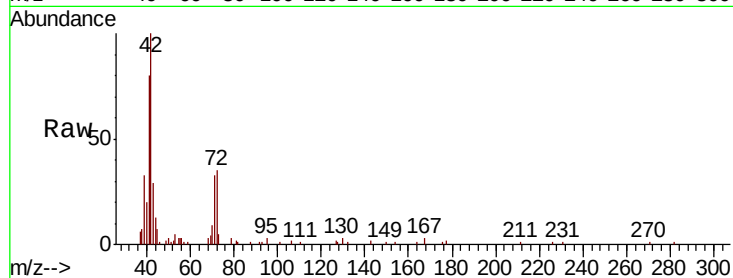
#41
Tetrahydrofuran
Concen: 0.421 ppbv m
RT: 6.17 min Scan# 1005
Delta R.T. 0.01 min
Lab File: VL032757.D
Acq: 14 Nov 2018 13:44

Instrument :
MSVOA_L
ClientSampled :
IASC2

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.4	48.6#
71	0.0	31.6	47.4#

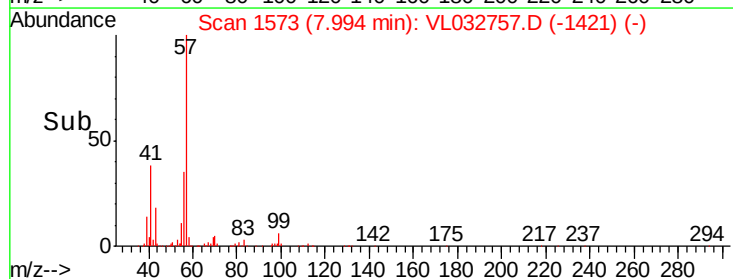
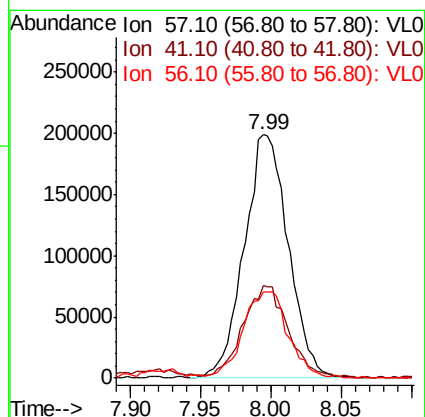
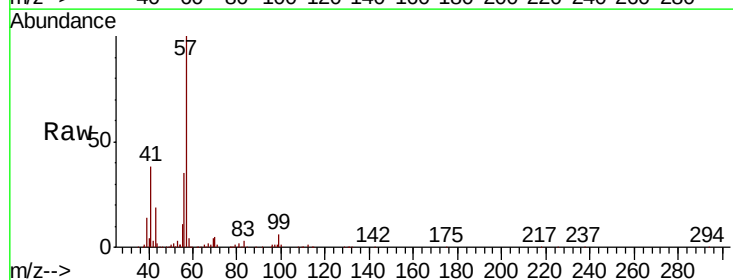
Manual Integrations
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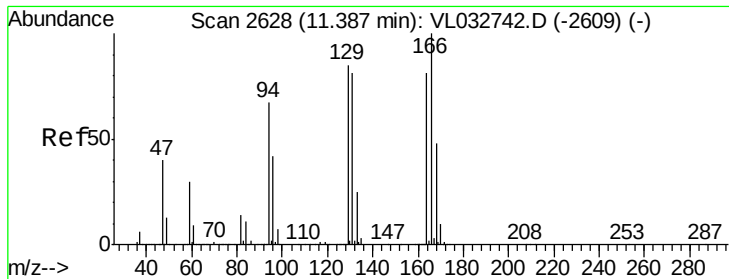
MMDadoda
11/16/2018 1:29:55 PM



#44
2,2,4-Trimethylpentane
Concen: 0.938 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. -0.01 min
Lab File: VL032757.D
Acq: 14 Nov 2018 13:44

Tgt Ion	Ratio	Lower	Upper
57	100		
41	39.5	26.6	39.8
56	36.9	24.8	37.2





#52

Tetrachloroethene

Concen: 0.055 ppbv m

RT: 11.38 min Scan# 2626

Delta R.T. -0.01 min

Lab File: VL032757.D

Acq: 14 Nov 2018 13:44

Instrument :

MSVOA_L

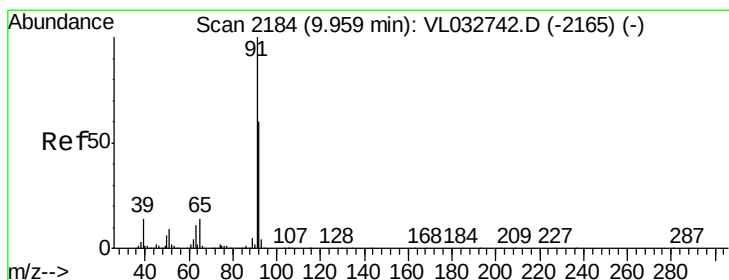
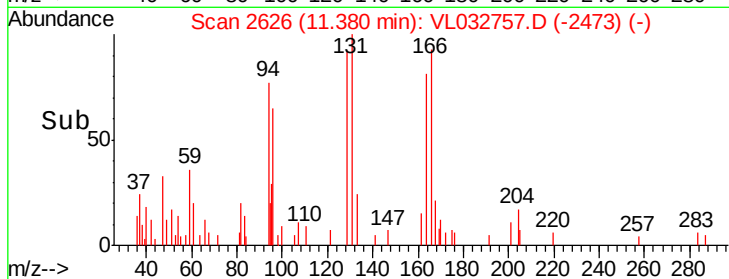
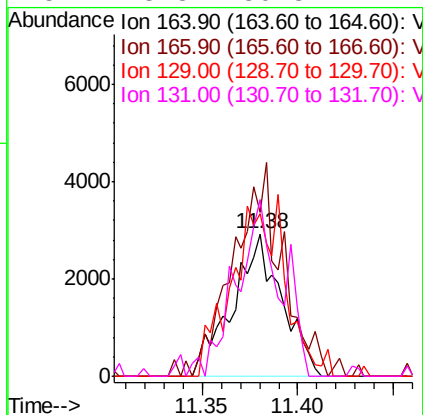
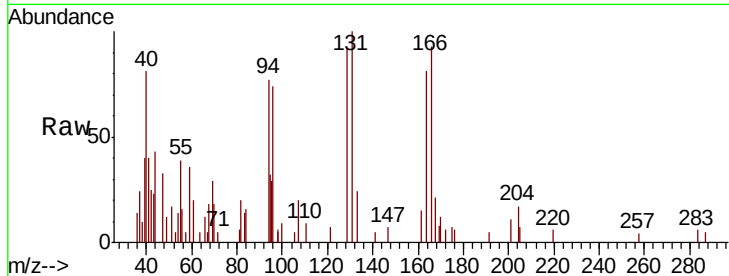
ClientSampled :

IASC2

Tot Ion:	164	Resp:	5261
Ion	Ratio	Lower	Upper
164	100		
166	115.2	99.3	148.9
129	114.0	83.9	125.9
131	123.8	80.8	121.2#

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#53

Toluene

Concen: 20.304 ppbv

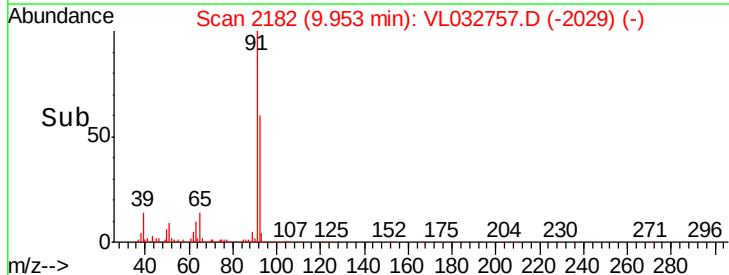
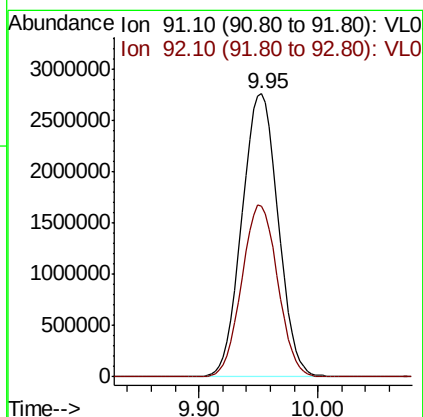
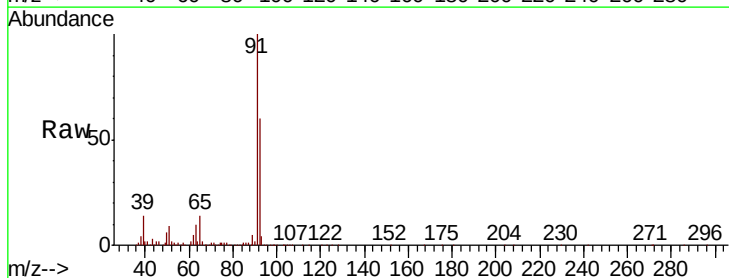
RT: 9.95 min Scan# 2182

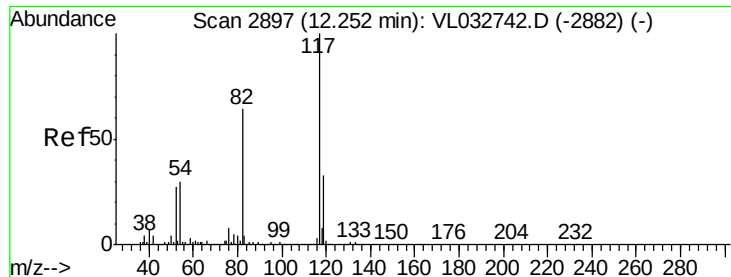
Delta R.T. -0.01 min

Lab File: VL032757.D

Acq: 14 Nov 2018 13:44

Tgt Ion:	91	Resp:	5825474
Ion	Ratio	Lower	Upper
91	100		
92	60.3	47.9	71.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL032757.D

Acq: 14 Nov 2018 13:44

Instrument :

MSVOA_L

ClientSampleId :

IASC2

Tot Ion:117 Resp: 3068880

Ion Ratio Lower Upper

117 100

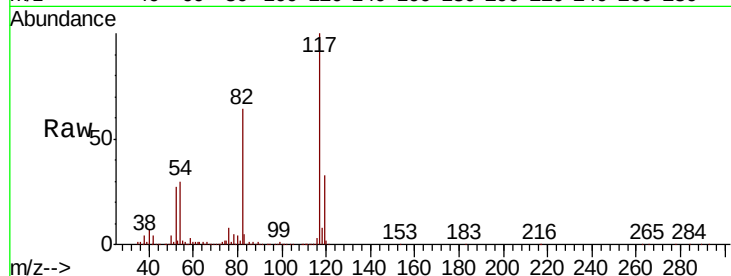
82 64.3 51.0 76.6

119 32.8 28.0 42.0

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MMDadoda

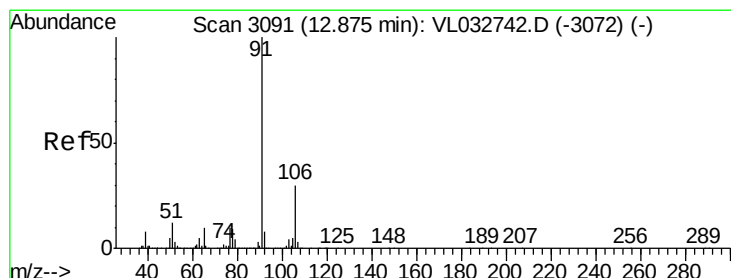
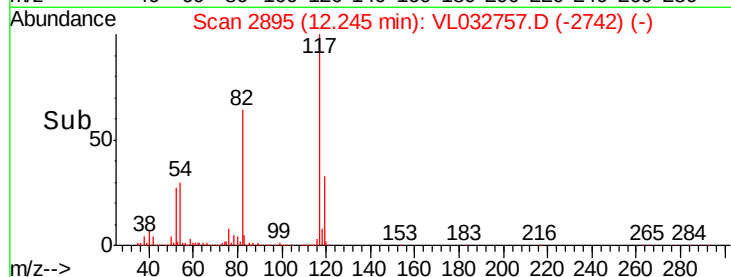
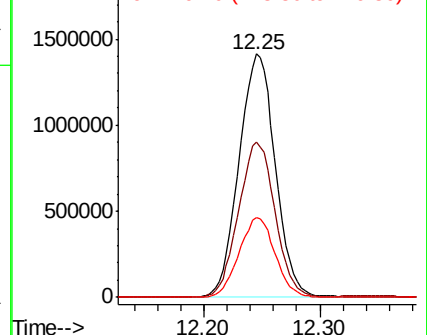
11/16/2018 1:29:55 PM



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.582 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. -0.01 min

Lab File: VL032757.D

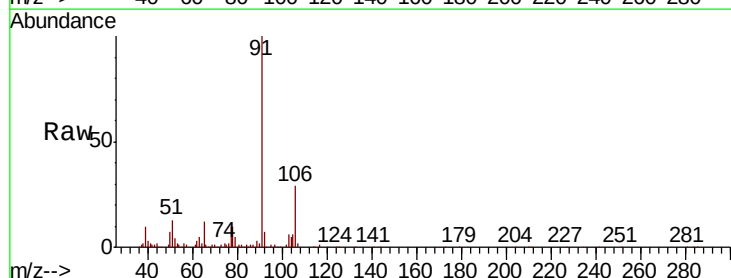
Acq: 14 Nov 2018 13:44

Tgt Ion: 91 Resp: 214959

Ion Ratio Lower Upper

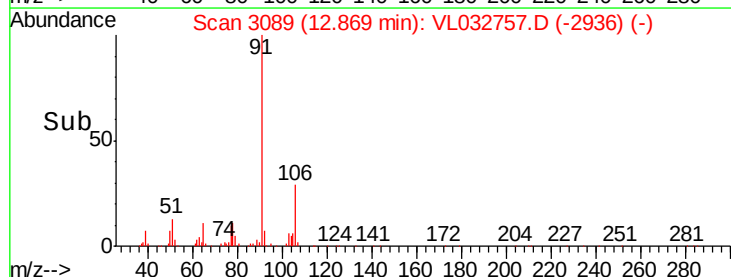
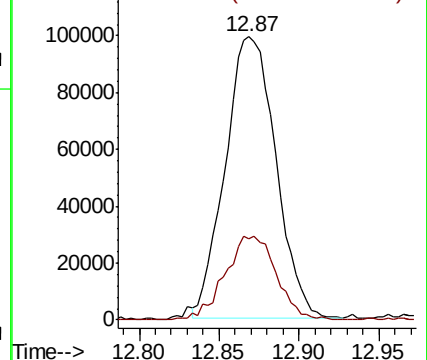
91 100

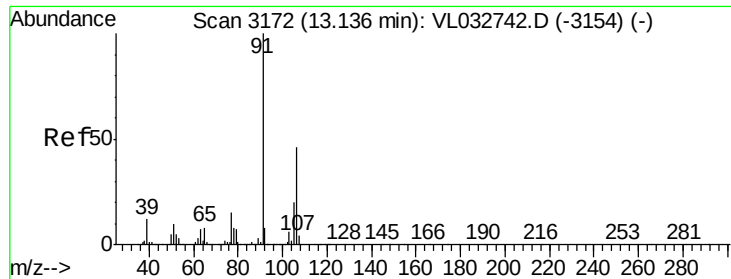
106 28.6 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





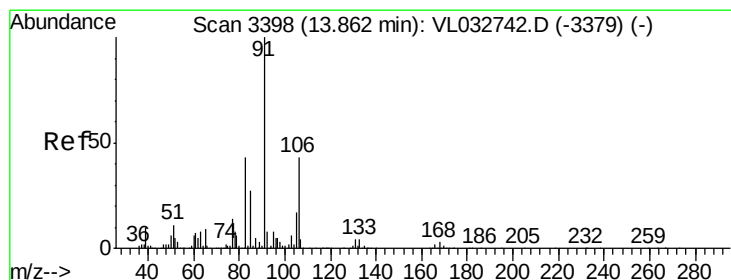
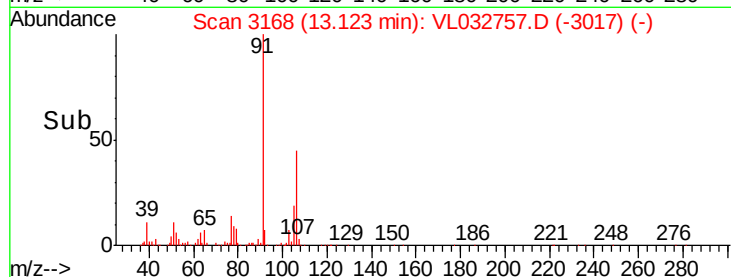
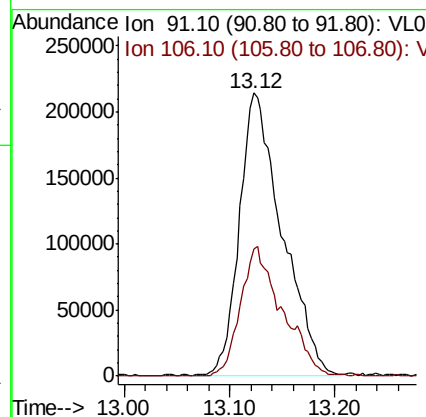
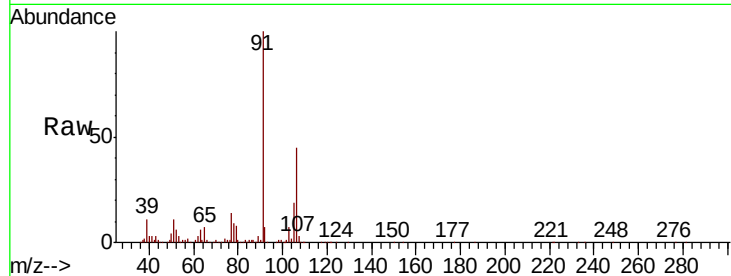
#59
m/p-Xylene
Concen: 1.820 ppbv
RT: 13.12 min Scan# 3168
Delta R.T. -0.01 min
Lab File: VL032757.D
Acq: 14 Nov 2018 13:44

Instrument :
MSVOA_L
ClientSampled :
IASC2

Tot Ion	Ratio	Lower	Upper
91	100		
106	45.0	36.1	54.1

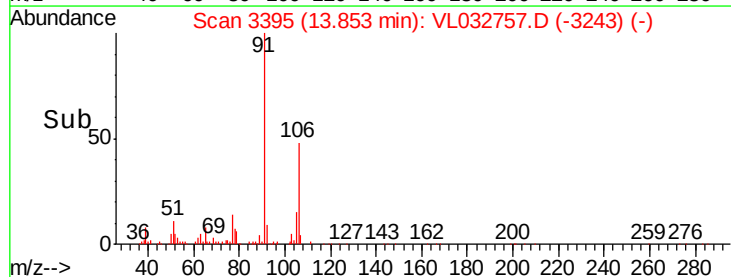
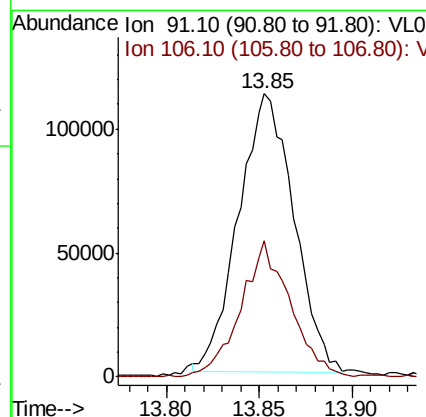
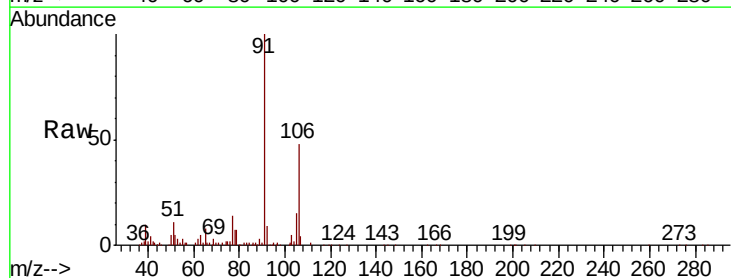
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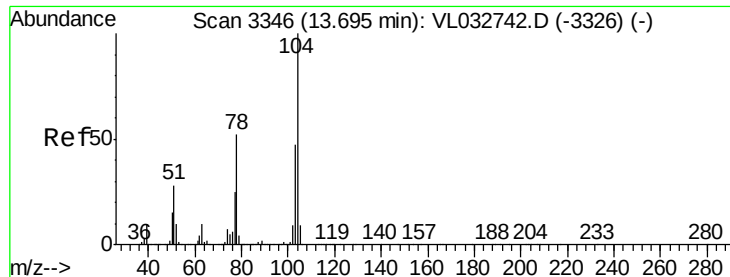
MMDadoda
11/16/2018 1:29:55 PM



#60
o-Xylene
Concen: 0.705 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.01 min
Lab File: VL032757.D
Acq: 14 Nov 2018 13:44

Tgt Ion	Ratio	Lower	Upper
91	100		
106	44.3	21.9	65.7





#61

Stvrene

Concen: 0.226 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. -0.01 min

Lab File: VL032757.D

Acq: 14 Nov 2018 13:44

Instrument :

MSVOA_L

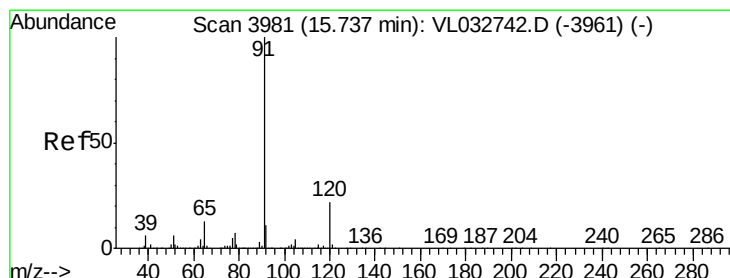
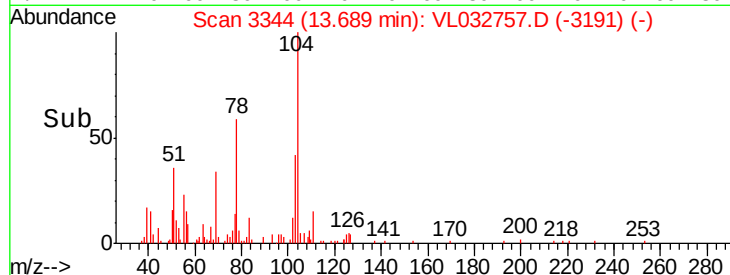
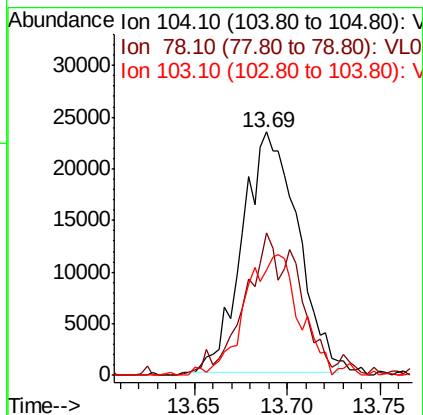
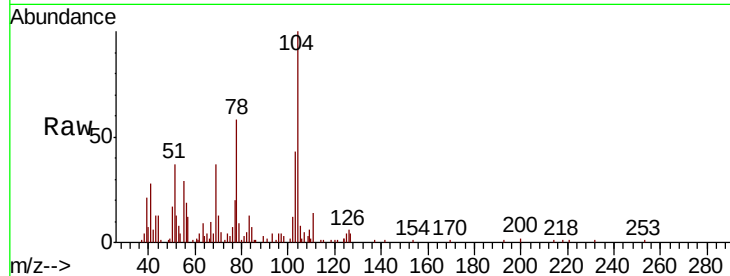
ClientSampleId :

IASC2

Tot Ion:	104	Resp:	48560
Ion Ratio	Lower	Upper	
104	100		
78	61.0	42.2	63.4
103	51.5	38.2	57.2

Manual Integrations
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#64

n-propylbenzene

Concen: 0.185 ppbv

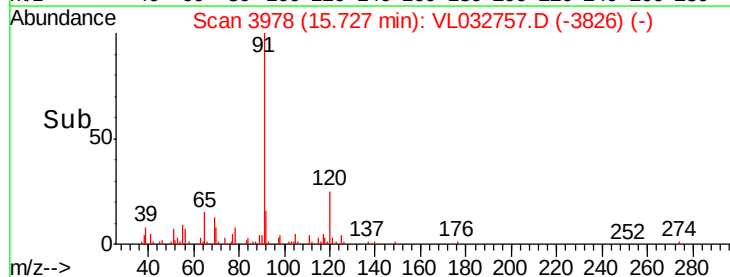
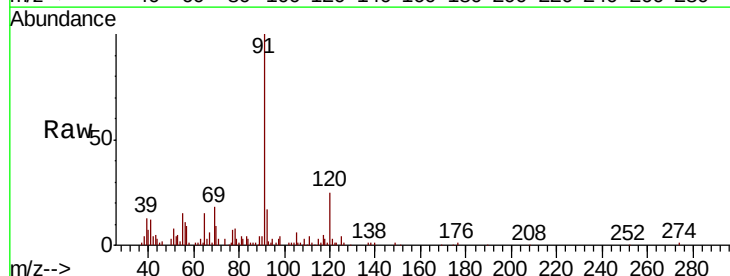
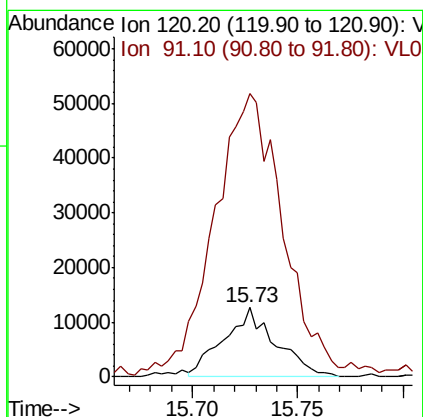
RT: 15.73 min Scan# 3978

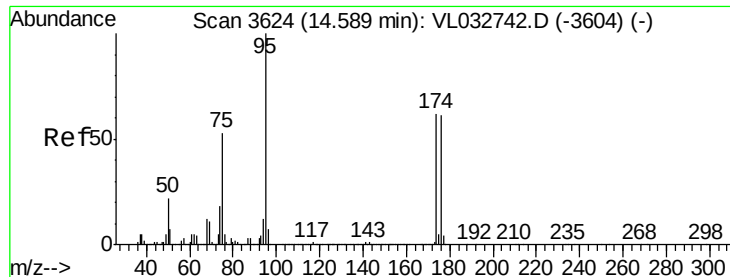
Delta R.T. -0.01 min

Lab File: VL032757.D

Acq: 14 Nov 2018 13:44

Tgt Ion:	120	Resp:	21720
Ion Ratio	Lower	Upper	
120	100		
91	536.7	381.7	572.5





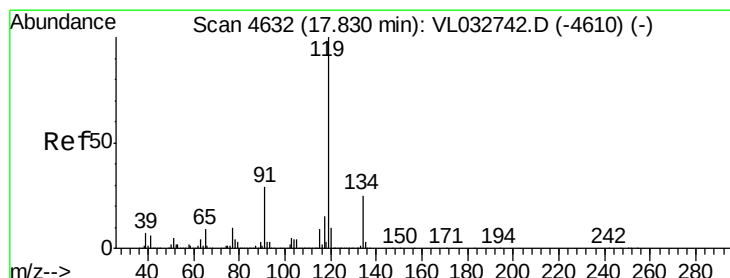
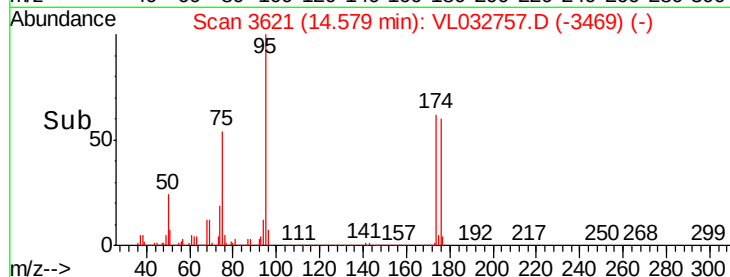
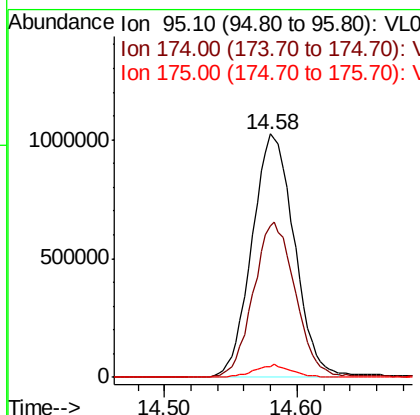
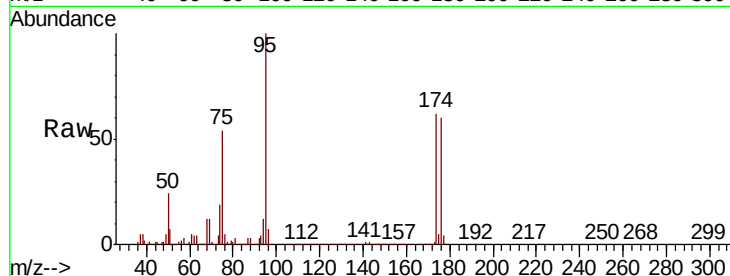
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.893 ppbv
 RT: 14.58 min Scan# 3621
 Delta R.T. -0.01 min
 Lab File: VL032757.D
 Acq: 14 Nov 2018 13:44

Instrument :
 MSVOA_L
 ClientSampled :
 IASC2

Tot Ion: 95 Resp: 2270701
 Ion Ratio Lower Upper
 95 100
 174 63.7 50.7 76.1
 175 4.7 3.8 5.6

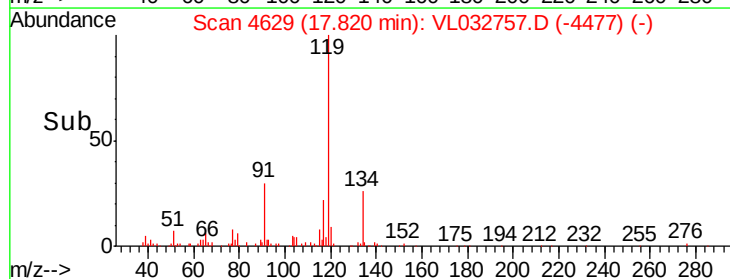
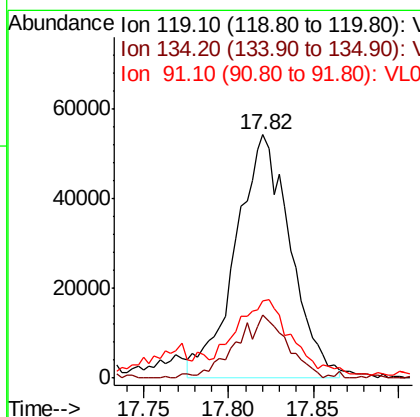
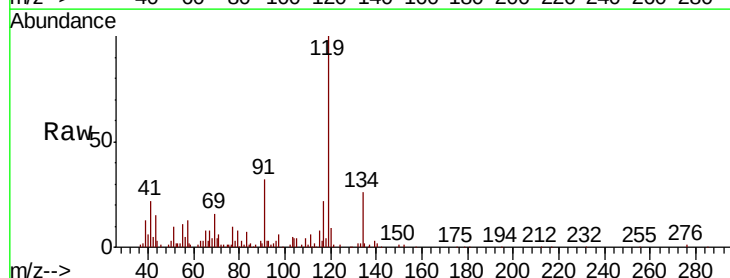
Manual Integrations
 APPROVED

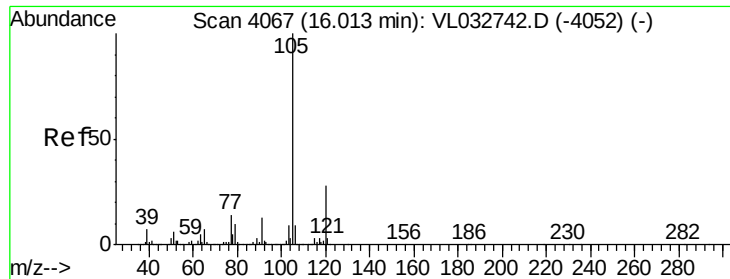
MMDadoda
 11/16/2018 1:29:55 PM



#69
 p-Isopropyltoluene
 Concen: 0.265 ppbv m
 RT: 17.82 min Scan# 4629
 Delta R.T. -0.01 min
 Lab File: VL032757.D
 Acq: 14 Nov 2018 13:44

Tgt Ion: 119 Resp: 121689
 Ion Ratio Lower Upper
 119 100
 134 24.7 20.2 30.4
 91 40.8 23.5 35.3#





#72

4-Ethyltoluene

Concen: 0.279 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.01 min

Lab File: VL032757.D

Acq: 14 Nov 2018 13:44

Instrument :

MSVOA_L

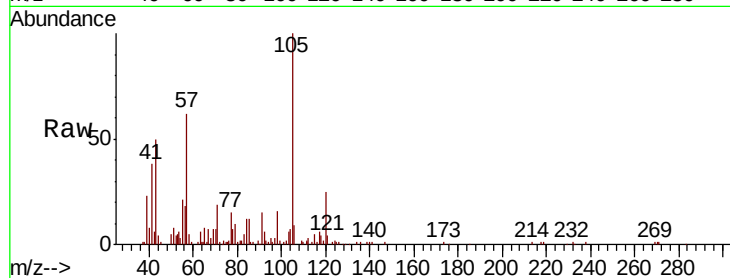
ClientSampled :

IASC2

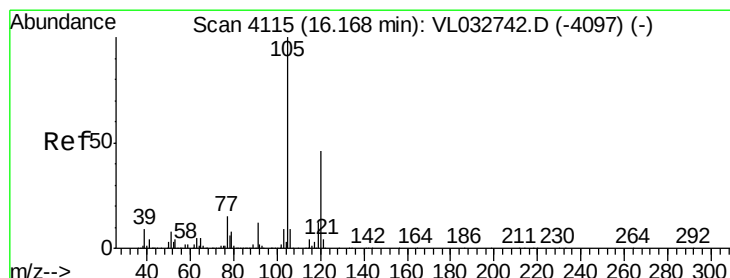
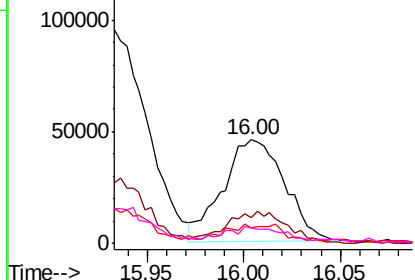
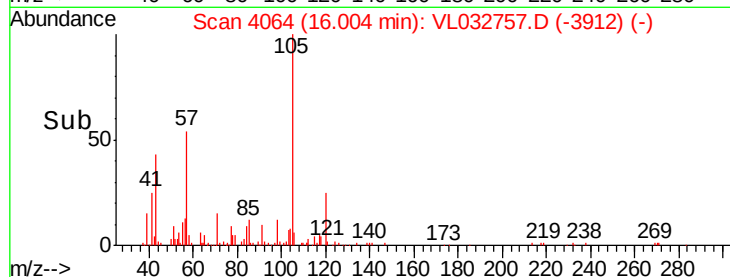
Tot Ion	Ratio	Resp	Lower	Upper
105	100	100941		
120	31.2	22.9	34.3	
91	16.6	10.6	15.8	
77	13.5	11.4	17.2	

Manual Integrations
APPROVED

MMDadoda
11/16/2018 1:29:55 PM



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



#73

1,3,5-Trimethylbenzene

Concen: 0.288 ppbv m

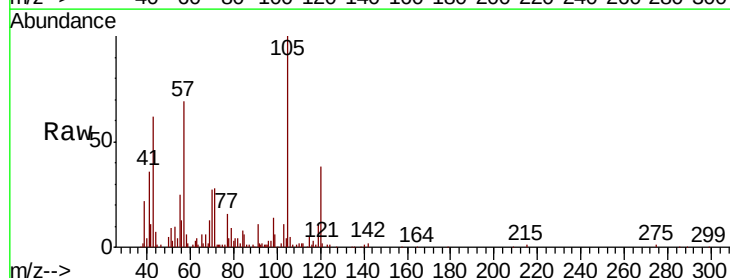
RT: 16.17 min Scan# 4115

Delta R.T. -0.00 min

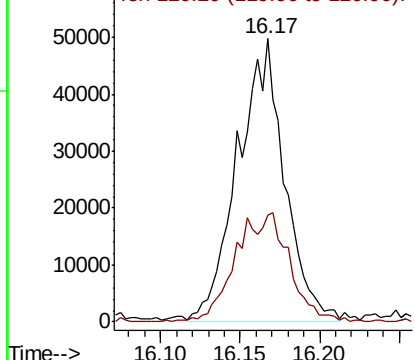
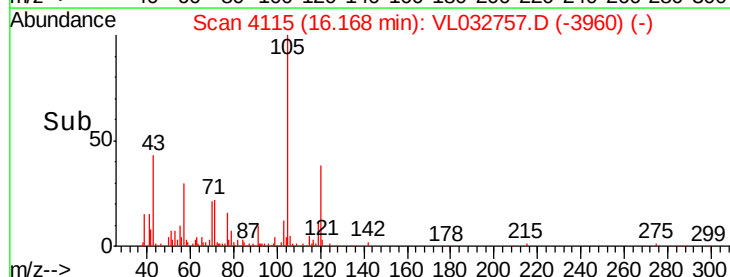
Lab File: VL032757.D

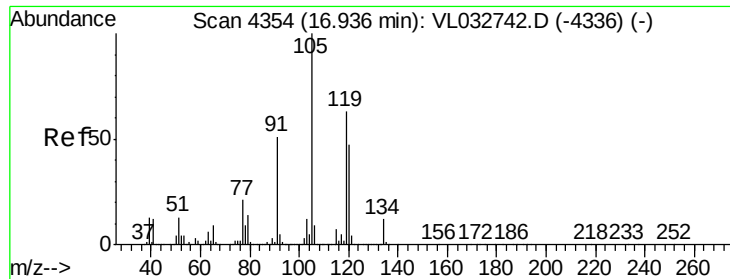
Acq: 14 Nov 2018 13:44

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	102147		
120	37.9	36.6	55.0	



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





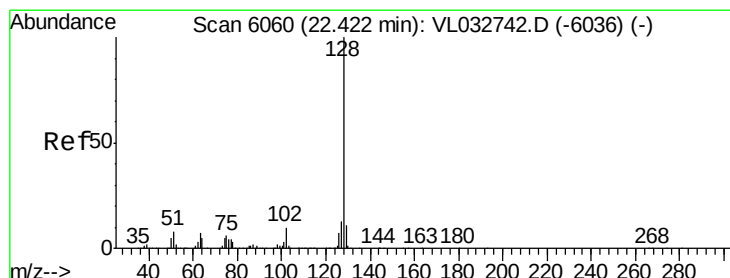
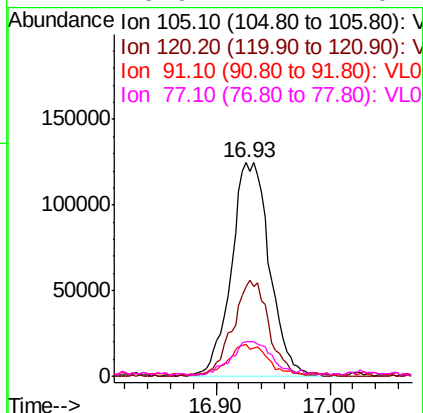
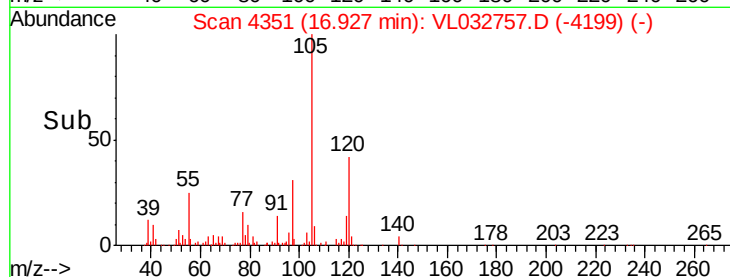
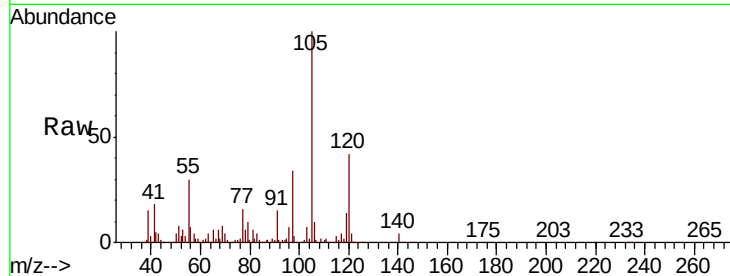
#74
 1,2,4-Trimethylbenzene
 Concen: 0.766 ppbv m
 RT: 16.93 min Scan# 4351
 Delta R.T. -0.01 min
 Lab File: VL032757.D
 Acq: 14 Nov 2018 13:44

Instrument :
 MSVOA_L
 ClientSampled :
 IASC2

Tot Ion	Ratio	Lower	Upper
105	100		
120	42.2	37.6	56.4
91	15.1	42.5	63.7#
77	15.9	17.4	26.2#

Manual Integrations
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#79
 Naphthalene
 Concen: 1.603 ppbv m
 RT: 22.43 min Scan# 6062
 Delta R.T. 0.01 min
 Lab File: VL032757.D
 Acq: 14 Nov 2018 13:44

Tgt Ion	Ratio	Lower	Upper
128	100		
127	10.4	10.1	15.1
129	12.0	8.9	13.3

