

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090518\
 Data File : VL032471.D
 Acq On : 6 Sep 2018 1:12
 Operator : SY/AP
 Sample : J4805-03 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-3

Manual Integrations
 APPROVED

MMDadoda
 9/7/2018 10:46:06 AM

Quant Time: Sep 06 16:04:32 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	1605925	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3136790	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.29	117	3136284	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2420428	10.40	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

Target Compounds

						Ovalue
3) Chlorodifluoromethane	3.05	51	19509	0.13	ppbv	92
9) Propene	3.06	41	99709	1.70	ppbv	90
10) Heptane	8.30	43	55480	0.26	ppbv	95
11) Trichlorofluoromethane	4.04	101	18911	0.10	ppbv	98
13) Ethanol	3.68	45	255681	13.99	ppbv	98
15) Acetone	3.93	43	1777699	12.29	ppbv	90
17) tert-Butyl alcohol	4.40	59	174666	7.85	ppbv #	100
20) Methylene Chloride	4.45	84	23415	0.42	ppbv	90
26) Hexane	5.82	57	86878	0.57	ppbv #	49
27) Carbon Disulfide	4.66	76	92191	0.65	ppbv #	86
29) Chloroform	5.89	83	105503	0.45	ppbv	98
30) Cyclohexane	7.30	84	40796	0.36	ppbv #	89
32) 1,1,1-Trichloroethane	6.66	97	1247822	5.74	ppbv	97
34) 2-Butanone	5.36	43	2391762	11.48	ppbv	100
36) Benzene	7.05	78	96905	0.36	ppbv	94
38) Trichloroethene	8.01	130	2804607	27.66	ppbv	97
41) Tetrahydrofuran	6.20	42	76861	0.68	ppbv	97
51) 2-Hexanone	10.32	43	432039	2.14	ppbv	99
52) Tetrachloroethene	11.42	164	58389m	0.71	ppbv	
53) Toluene	9.99	91	210828	0.76	ppbv	100
58) Ethyl Benzene	12.91	91	46159	0.12	ppbv	94
59) m/p-Xylene	13.18	91	118620m	0.35	ppbv	
60) o-Xylene	13.89	91	49902m	0.15	ppbv	
74) 1,2,4-Trimethylbenzene	16.97	105	96564	0.25	ppbv #	68
79) Naphthalene	22.47	128	1168630	3.66	ppbv	99
80) Naphthalene, 2-methyl-	25.15	142	302564	3.56	ppbv	99

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

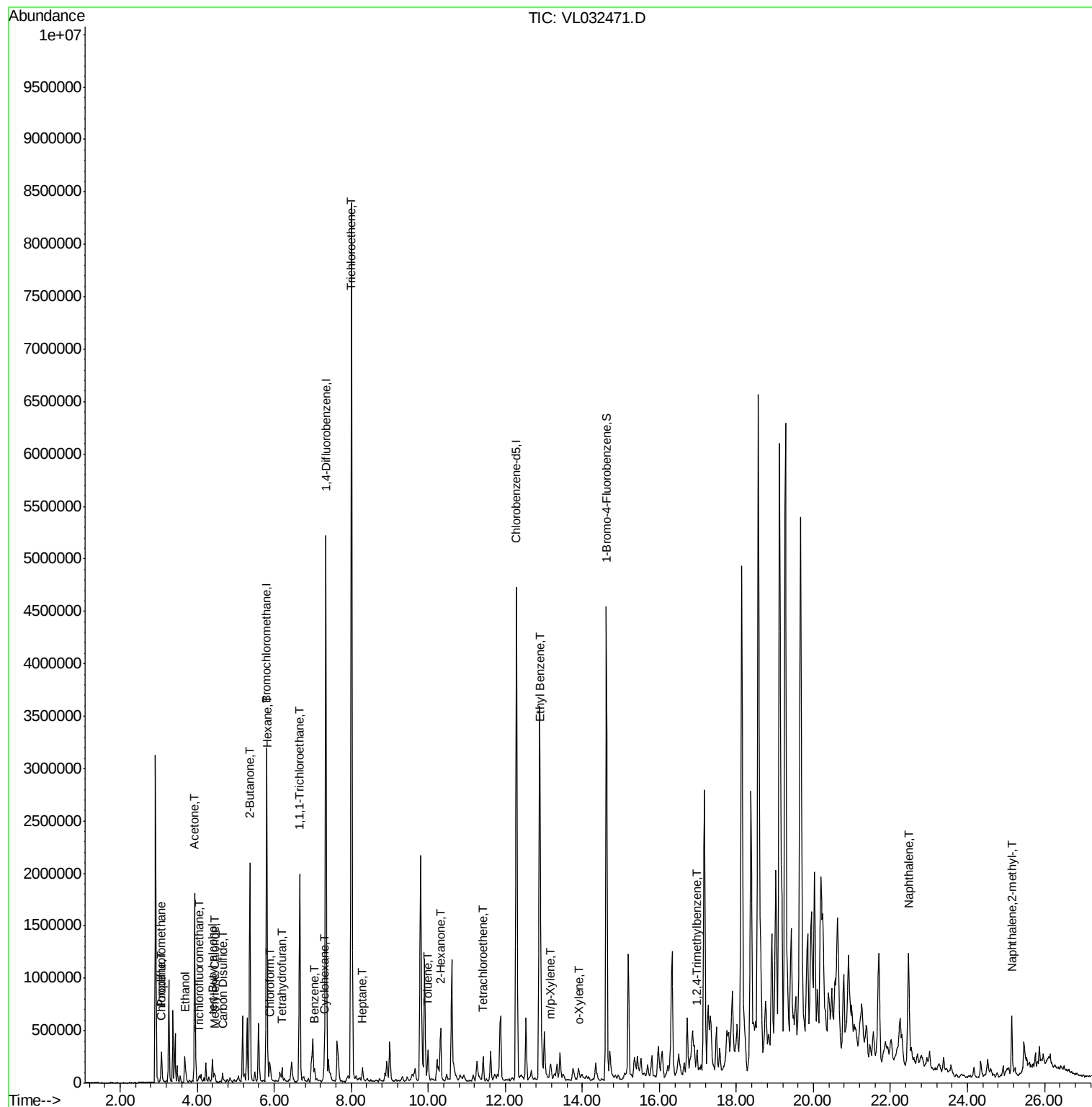
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090518\
Data File : VL032471.D
Acq On : 6 Sep 2018 1:12
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

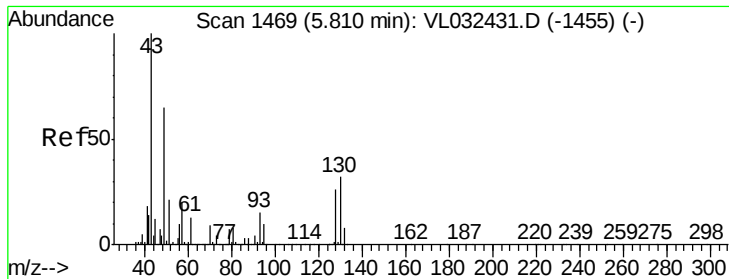
Instrument :
MSVOA_L
ClientSampleId :
VP-3

Manual Integrations
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Quant Time: Sep 06 16:04:32 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

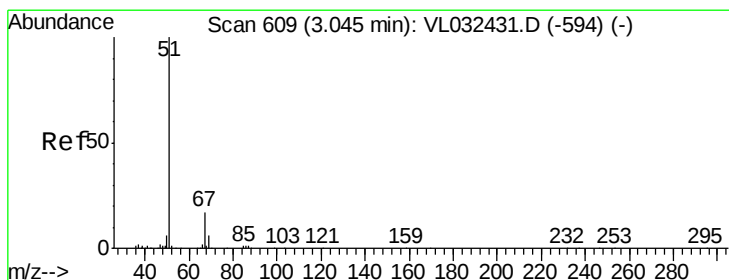
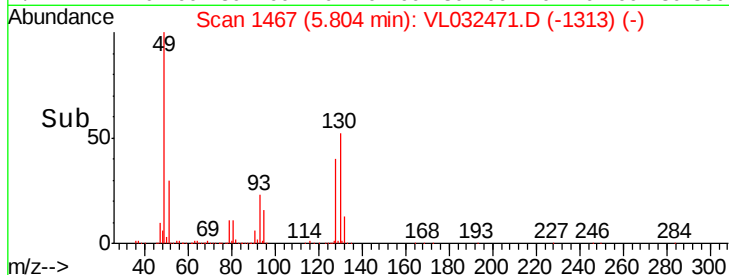
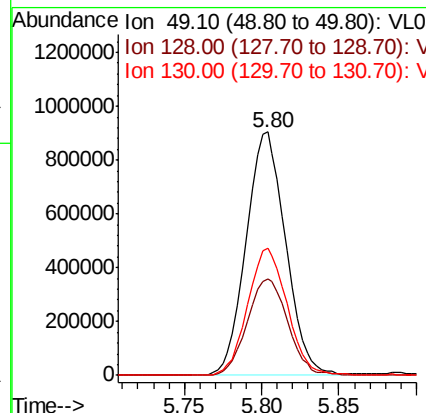
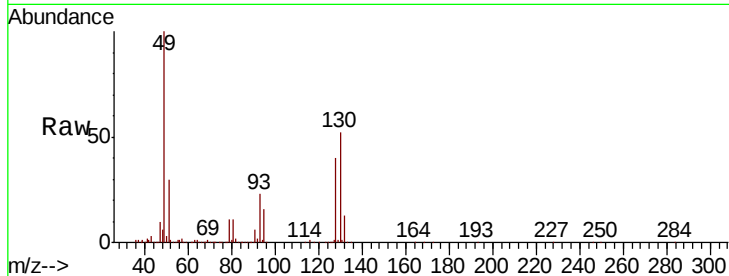
Bromochloromethane
Concen: 10.00 ppbv
RT: 5.80 min Scan# 1467
Delta R.T. -0.01 min
Lab File: VL032471.D
Acq: 6 Sep 2018 1:12

Instrument :
MSVOA_L
ClientSampleId :
VP-3

Tot Ion	Ratio	Lower	Upper
49	100		
128	41.0	20.7	62.1
130	53.0	26.6	79.7

Manual Integrations
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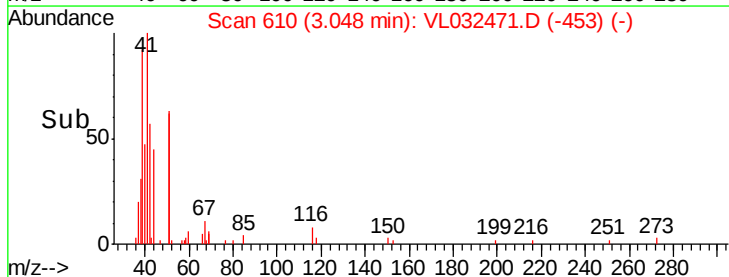
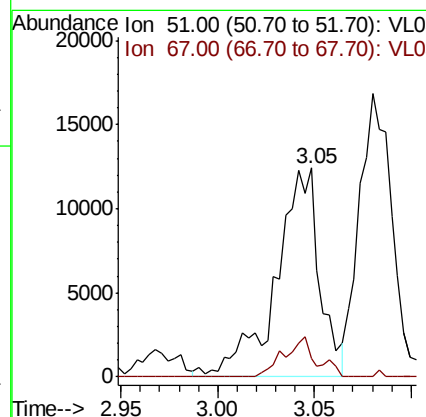
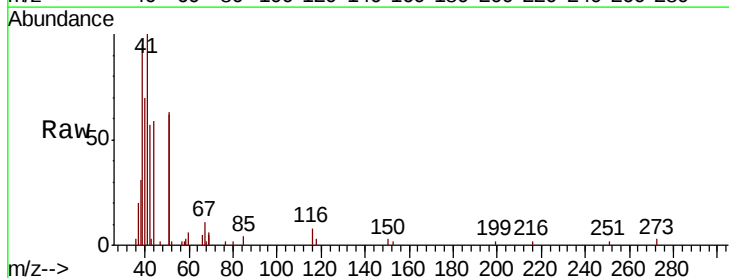
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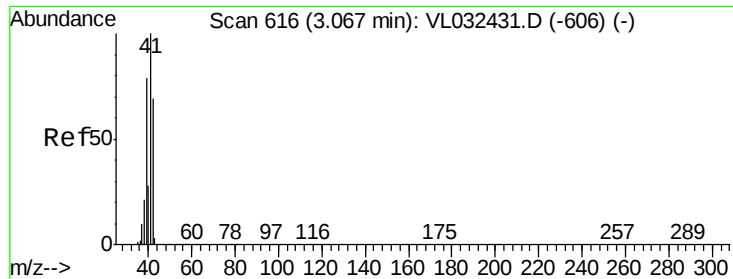


#3

Chlorodifluoromethane
Concen: 0.13 ppbv
RT: 3.05 min Scan# 610
Delta R.T. 0.00 min
Lab File: VL032471.D
Acq: 6 Sep 2018 1:12

Tgt Ion	Ratio	Lower	Upper
51	100		
67	14.0	13.8	20.8





#9

Propene

Concen: 1.70 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032471.D

Acq: 6 Sep 2018 1:12

Instrument :

MSVOA_L

ClientSampleId :

VP-3

Tot Ion: 41 Resp: 99709

Ion Ratio Lower Upper

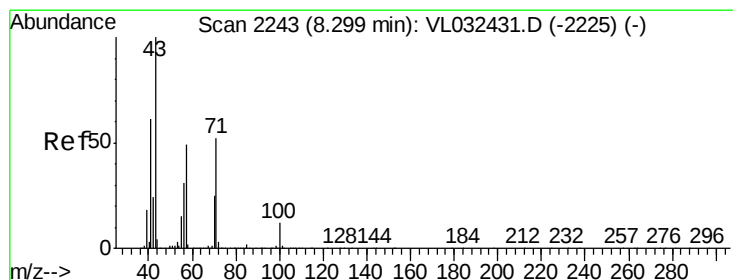
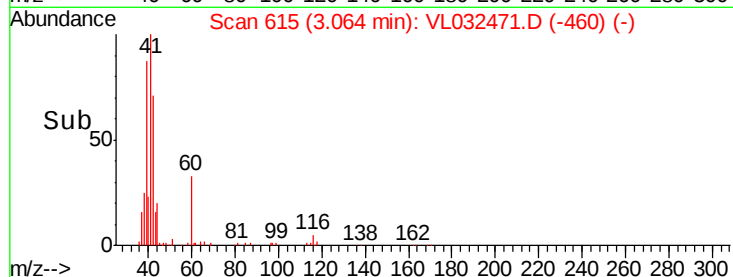
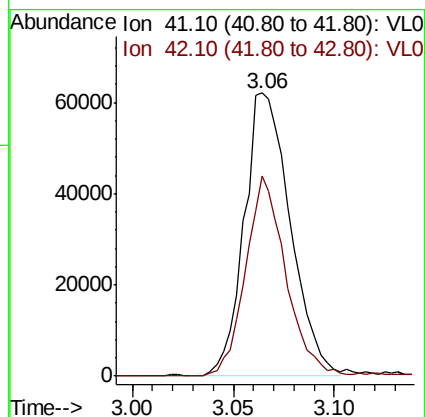
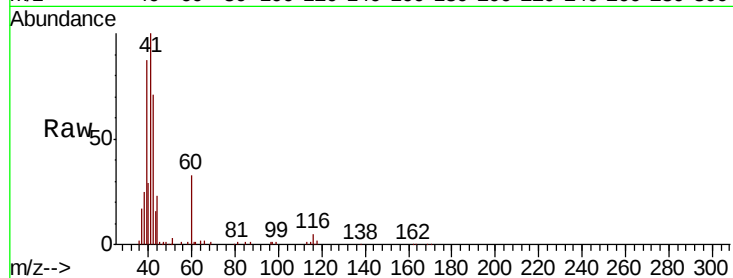
41 100

42 62.3 56.6 84.8

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#10

Heptane

Concen: 0.26 ppbv

RT: 8.30 min Scan# 2242

Delta R.T. -0.00 min

Lab File: VL032471.D

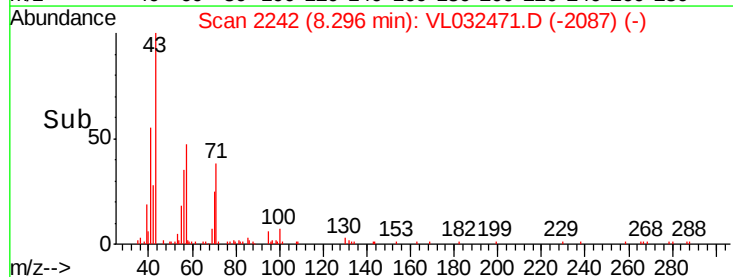
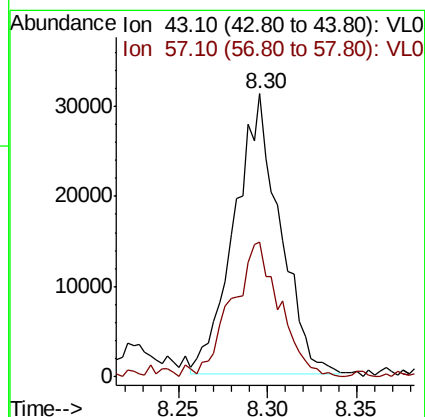
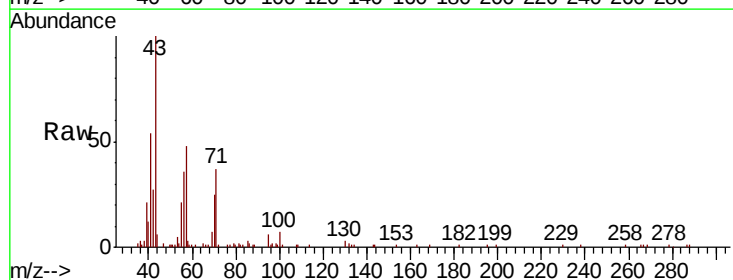
Acq: 6 Sep 2018 1:12

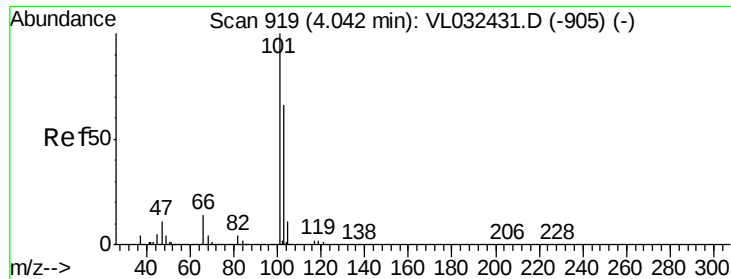
Tgt Ion: 43 Resp: 55480

Ion Ratio Lower Upper

43 100

57 52.9 39.6 59.4





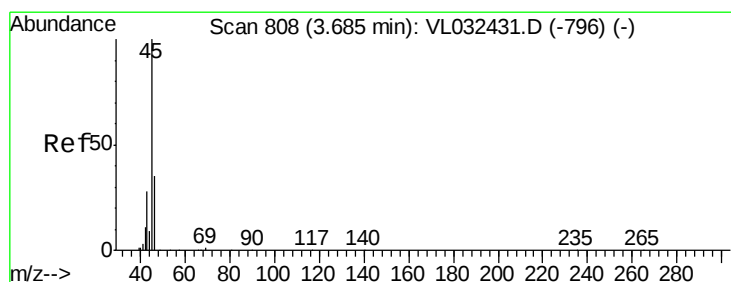
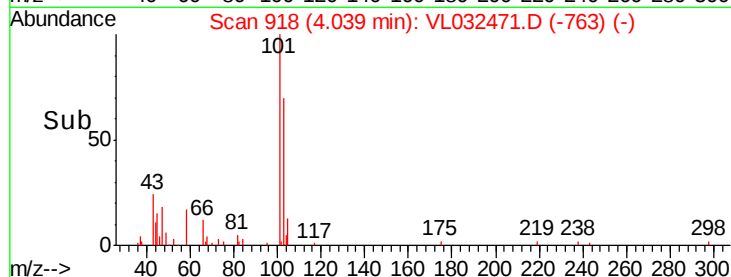
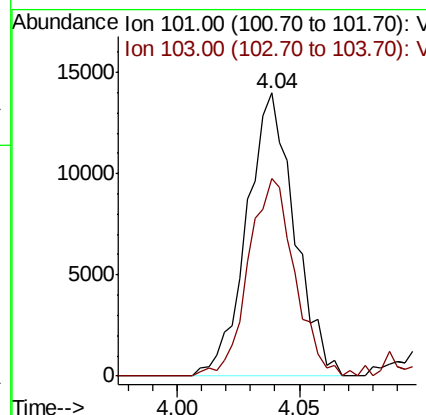
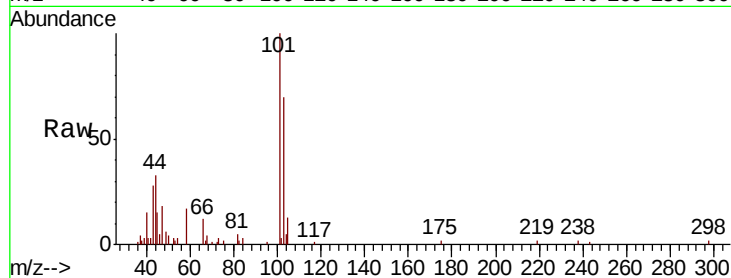
#11
 Trichlorofluoromethane
 Concen: 0.10 ppbv
 RT: 4.04 min Scan# 918
 Delta R.T. -0.00 min
 Lab File: VL032471.D
 Acq: 6 Sep 2018 1:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-3

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	101	100	18911		
103	103	67.5	52.8	79.2	

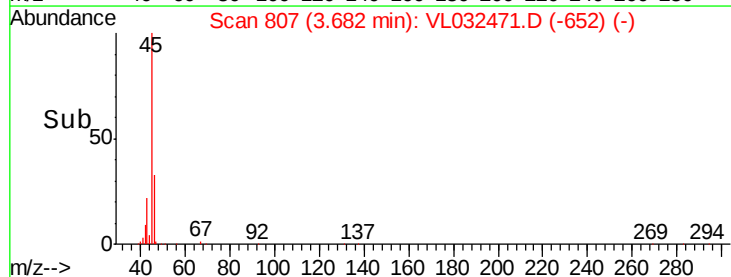
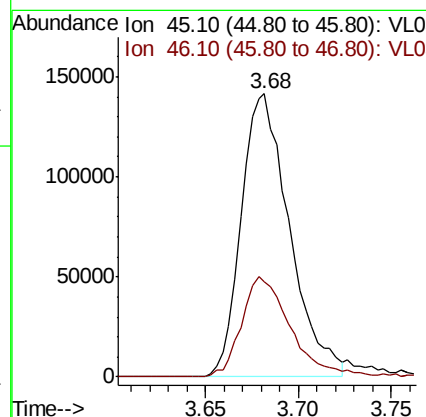
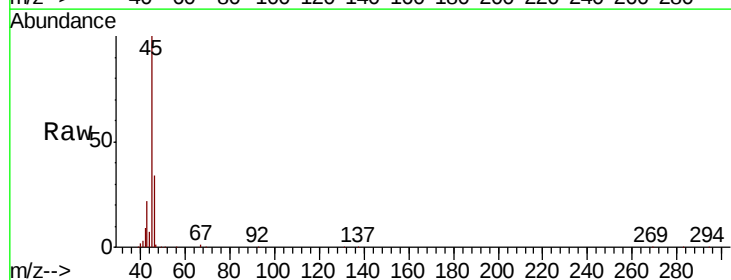
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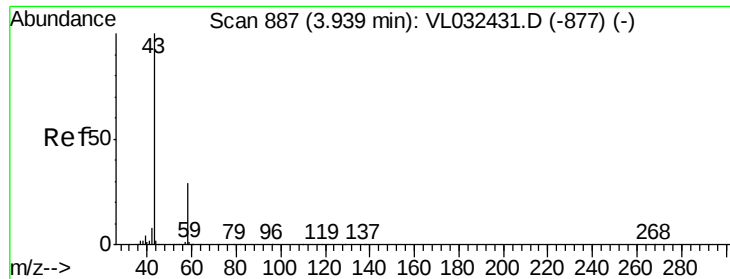
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#13
 Ethanol
 Concen: 13.99 ppbv
 RT: 3.68 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VL032471.D
 Acq: 6 Sep 2018 1:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	45	100	255681		
46	46	36.4	14.2	56.8	





#15

Acetone

Concen: 12.29 ppbv

RT: 3.93 min Scan# 885

Delta R.T. -0.01 min

Lab File: VL032471.D

Acq: 6 Sep 2018 1:12

Tot Ion: 43 Resp: 1777699

Ion Ratio Lower Upper

43 100

58 33.3 22.6 33.8

Instrument :

MSVOA_L

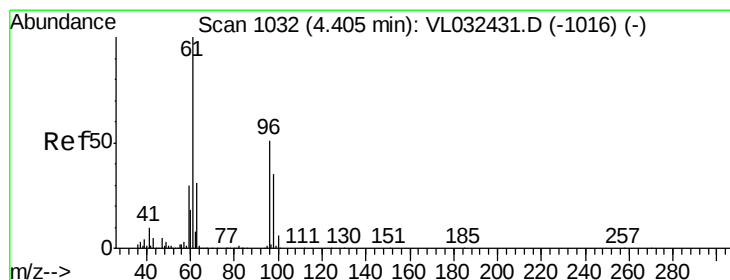
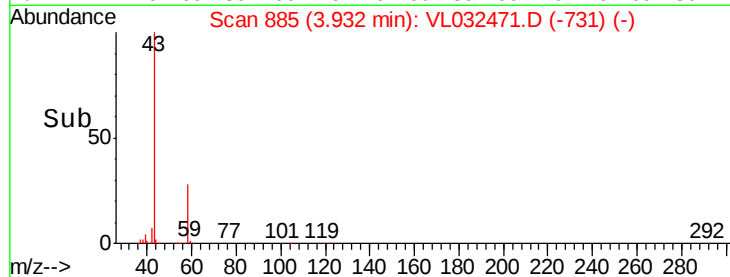
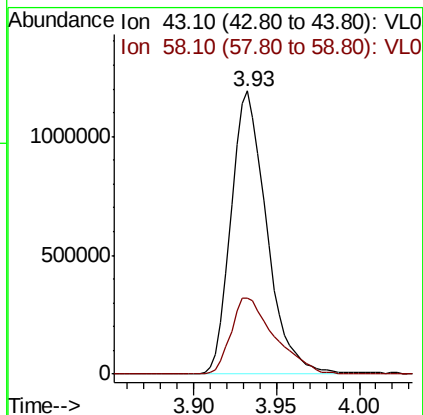
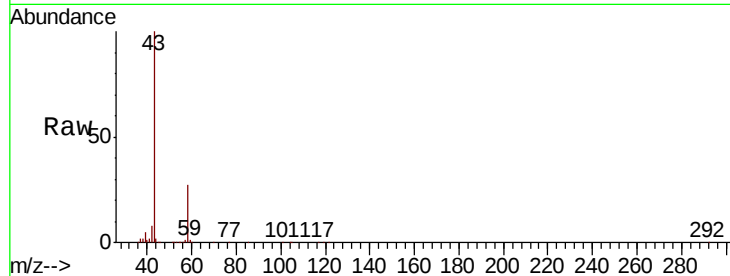
ClientSampled :

VP-3

Manual Integrations
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#17

tert-Butyl alcohol

Concen: 7.85 ppbv

RT: 4.40 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VL032471.D

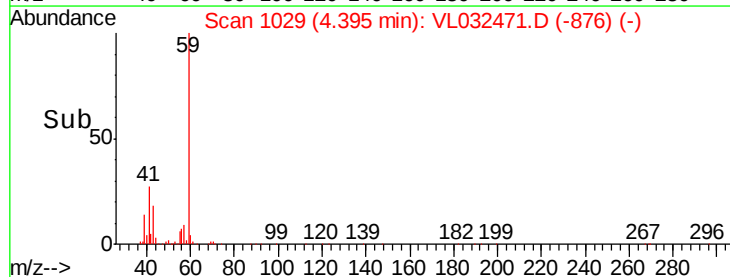
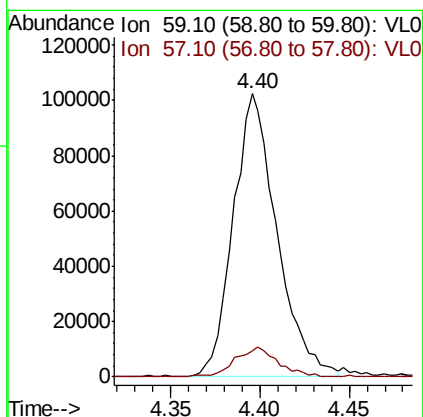
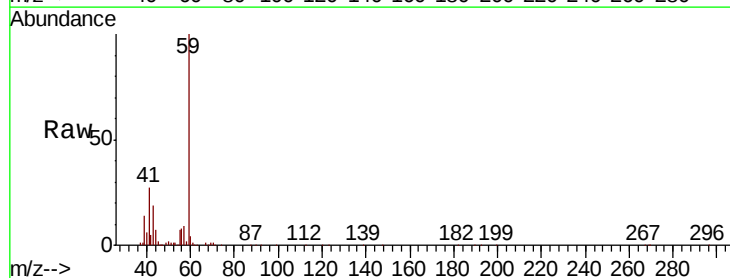
Acq: 6 Sep 2018 1:12

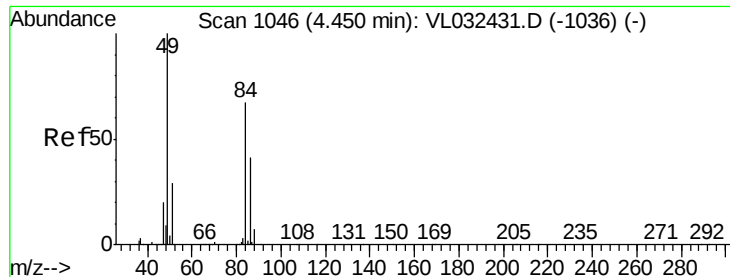
Tgt Ion: 59 Resp: 174666

Ion Ratio Lower Upper

59 100

57 10.5 0.0 0.0#





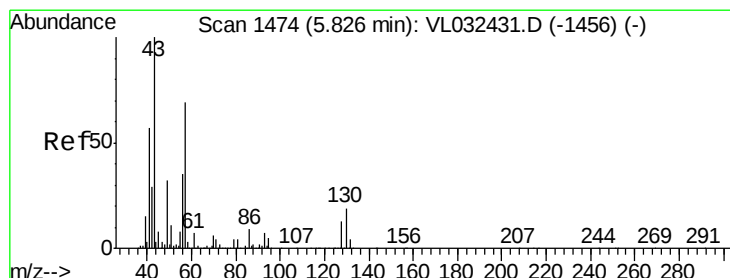
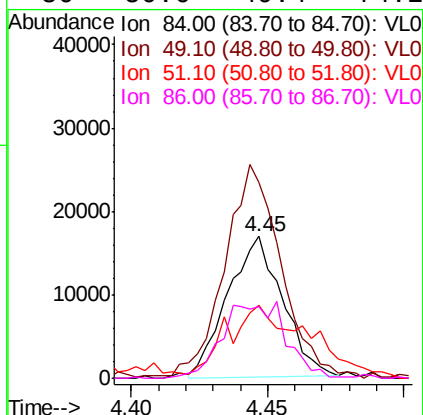
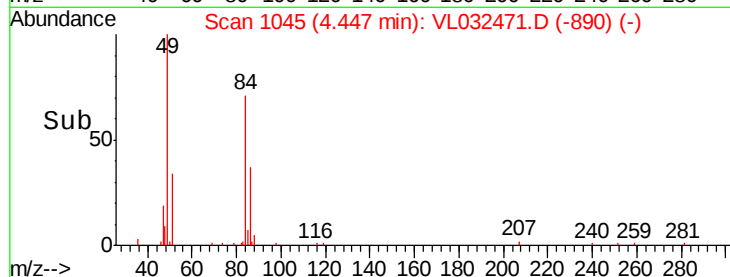
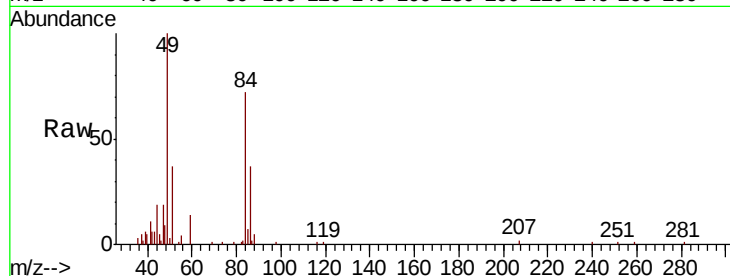
#20
Methvlene Chloride
Concen: 0.42 ppbv
RT: 4.45 min Scan# 1045
Delta R.T. -0.00 min
Lab File: VL032471.D
Acq: 6 Sep 2018 1:12

Instrument :
MSVOA_L
ClientSampled :
VP-3

Tot Ion:	84	Resp:	23415
Ion	Ratio	Lower	Upper
84	100		
49	137.7	119.1	178.7
51	49.7	35.2	52.8
86	50.6	49.4	74.2

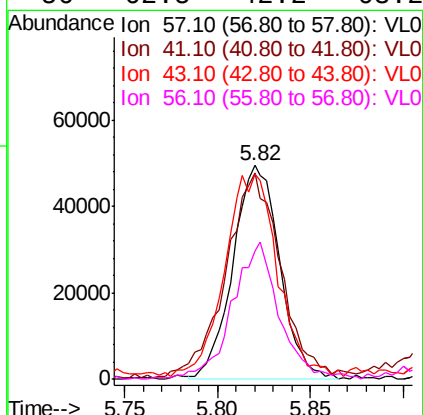
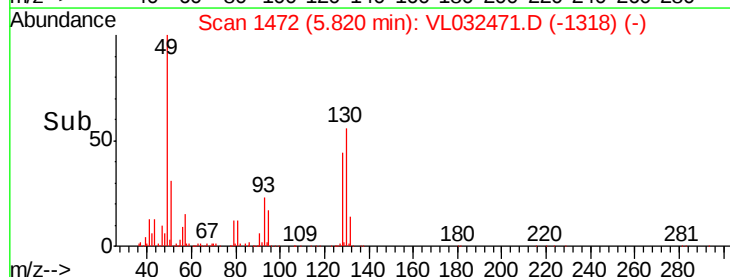
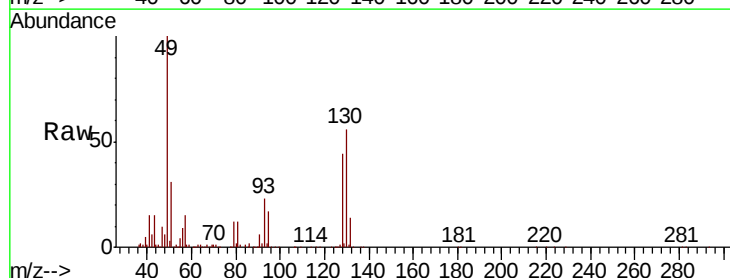
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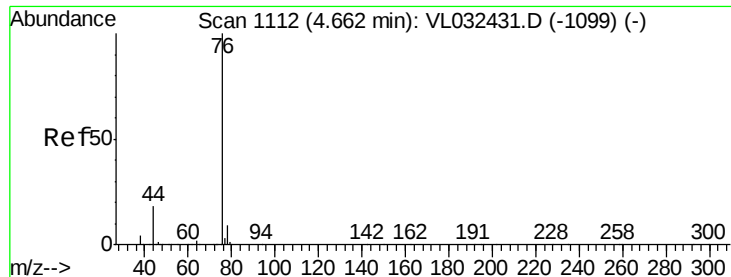
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#26
Hexane
Concen: 0.57 ppbv
RT: 5.82 min Scan# 1472
Delta R.T. -0.01 min
Lab File: VL032471.D
Acq: 6 Sep 2018 1:12

Tgt Ion:	57	Resp:	86878
Ion	Ratio	Lower	Upper
57	100		
41	112.2	69.0	103.4#
43	106.3	172.1	258.1#
56	62.5	42.2	63.2





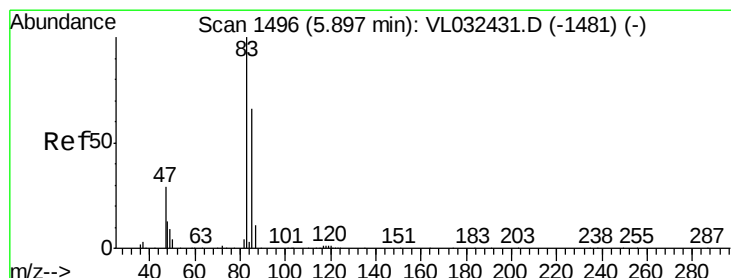
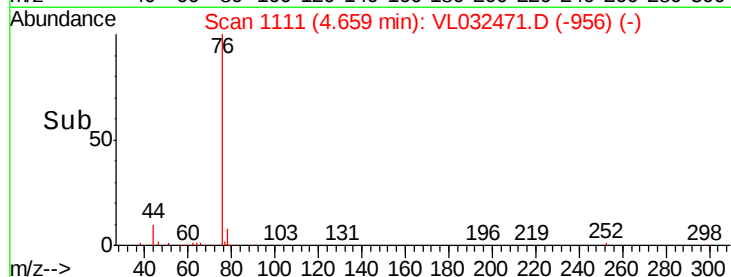
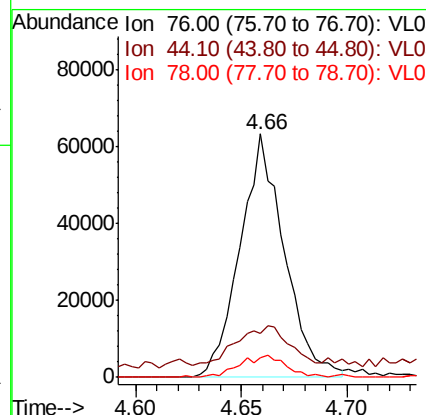
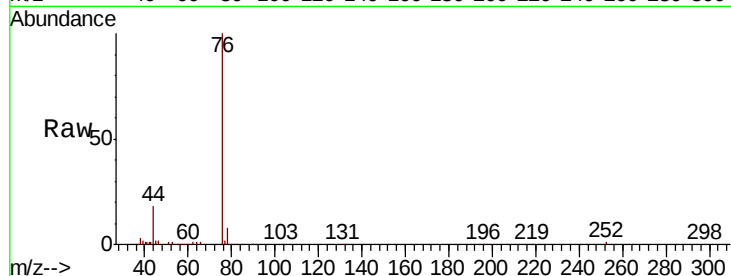
#27
Carbon Disulfide
Concen: 0.65 ppbv
RT: 4.66 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VL032471.D
Acq: 6 Sep 2018 1:12

Instrument :
MSVOA_L
ClientSampleId :
VP-3

Tot Ion	Ratio	Lower	Upper
76	100		
44	26.6	14.0	21.0#
78	10.0	7.5	11.3

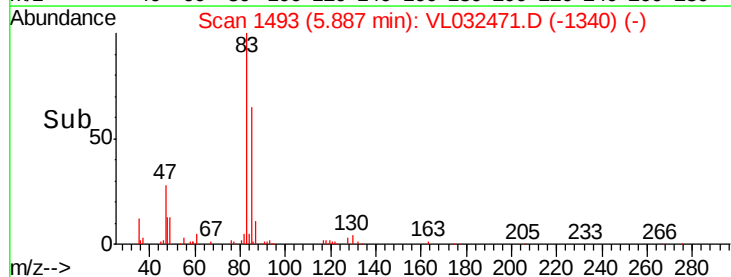
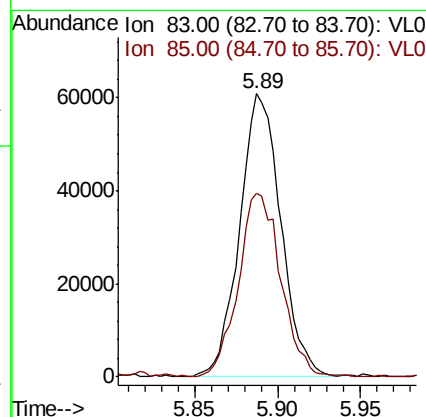
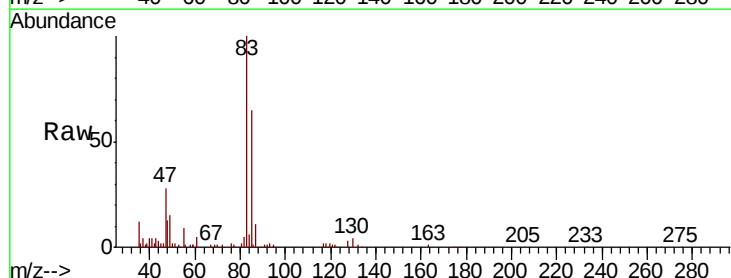
Manual Integrations
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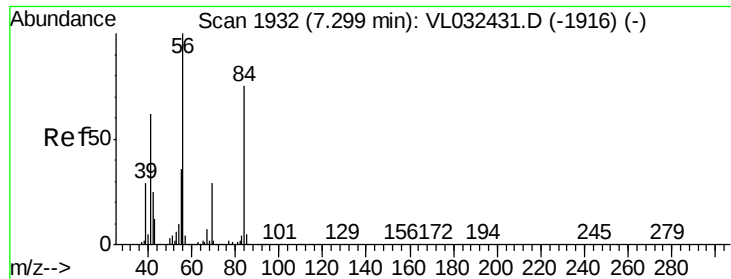
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#29
Chloroform
Concen: 0.45 ppbv
RT: 5.89 min Scan# 1493
Delta R.T. -0.01 min
Lab File: VL032471.D
Acq: 6 Sep 2018 1:12

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.5	78.7





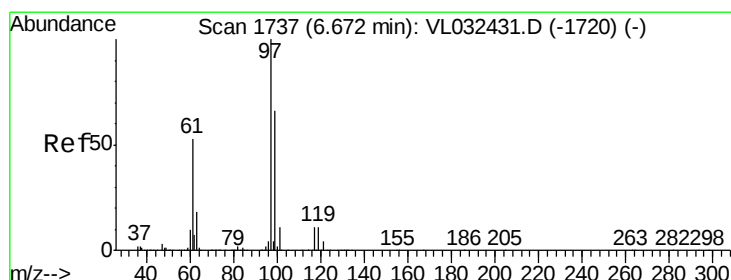
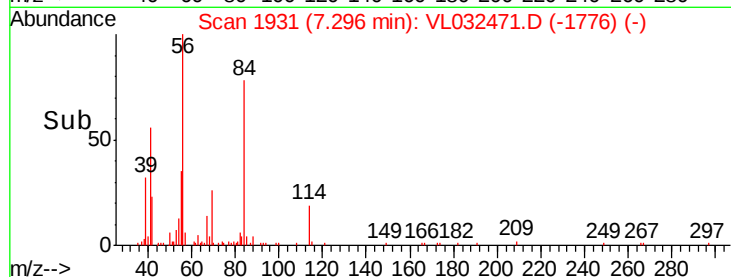
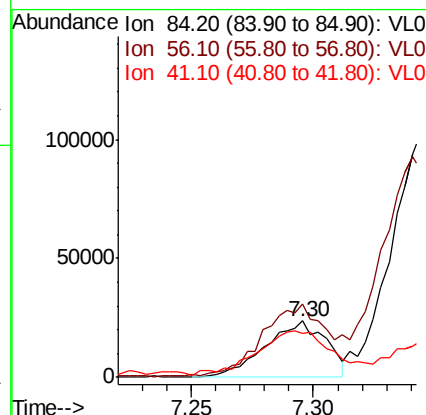
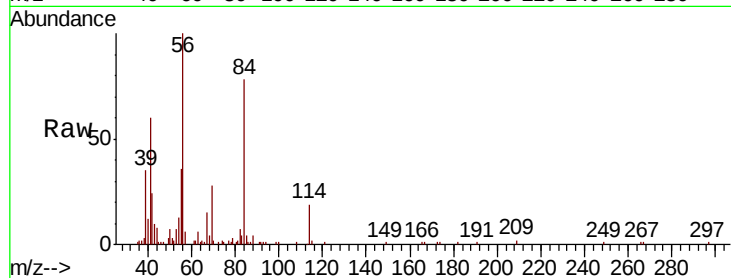
#30
Cvclohexane
Concen: 0.36 ppbv
RT: 7.30 min Scan# 1931
Delta R.T. -0.00 min
Lab File: VL032471.D
Acq: 6 Sep 2018 1:12

Instrument :
MSVOA_L
ClientSampleId :
VP-3

Tot Ion	Ratio	Lower	Upper
84	100		
56	138.3	113.5	170.3
41	108.5	68.1	102.1#

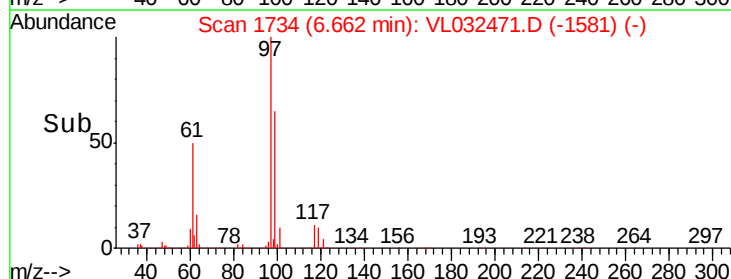
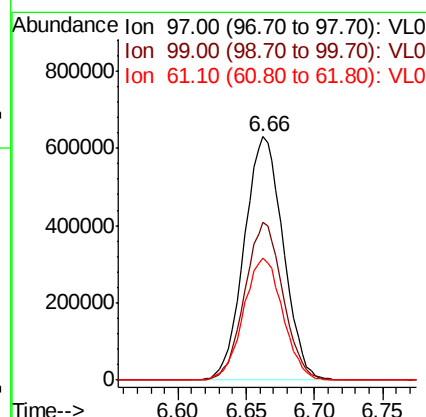
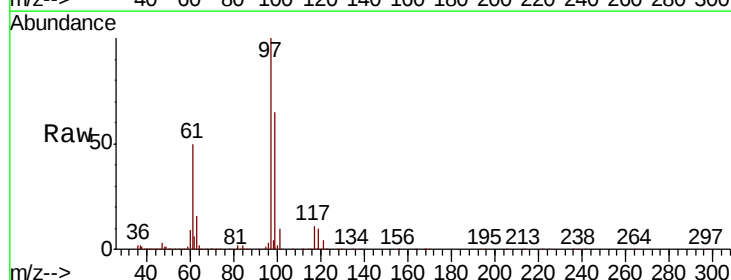
Manual Integrations
APPROVED

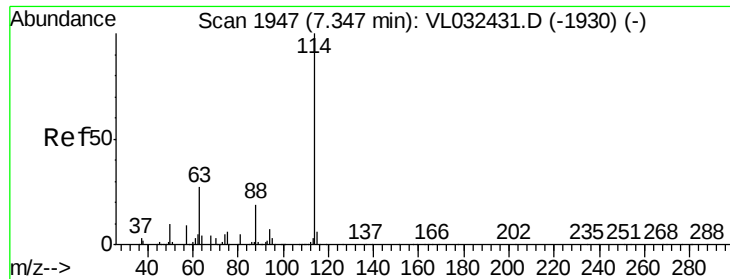
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#32
1,1,1-Trichloroethane
Concen: 5.74 ppbv
RT: 6.66 min Scan# 1734
Delta R.T. -0.01 min
Lab File: VL032471.D
Acq: 6 Sep 2018 1:12

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.6	52.1	78.1
61	50.8	42.5	63.7





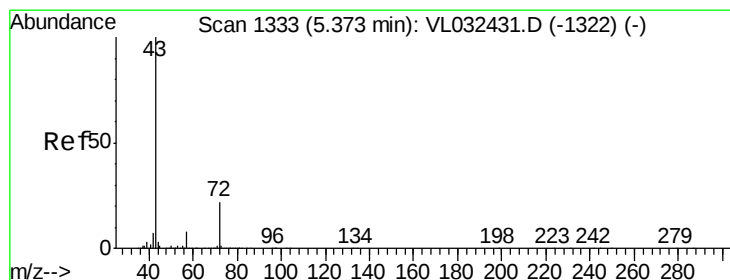
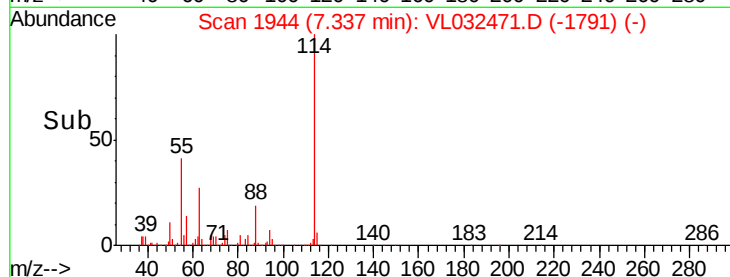
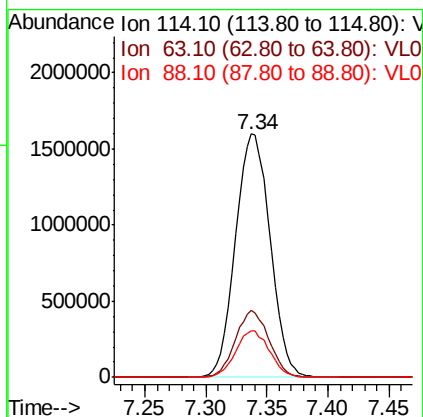
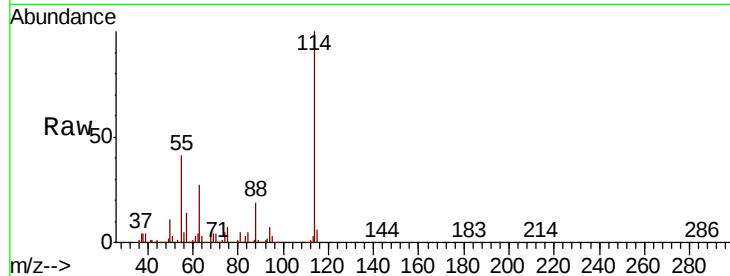
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.34 min Scan# 1944
 Delta R.T. -0.01 min
 Lab File: VL032471.D
 Acq: 6 Sep 2018 1:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-3

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.8	22.2	33.4
88	18.8	15.0	22.4

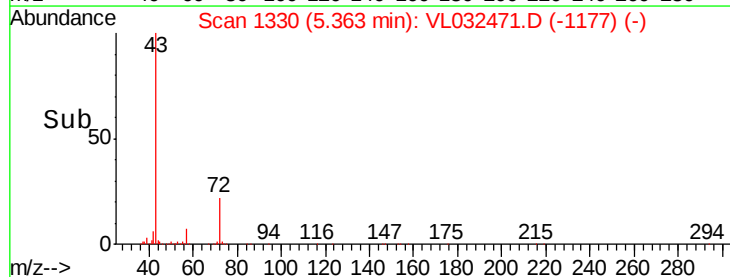
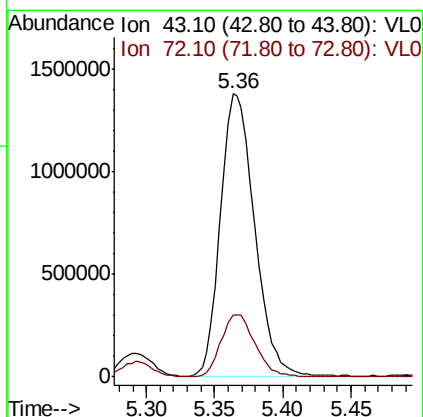
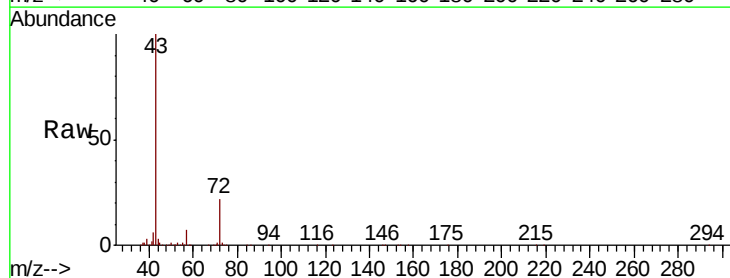
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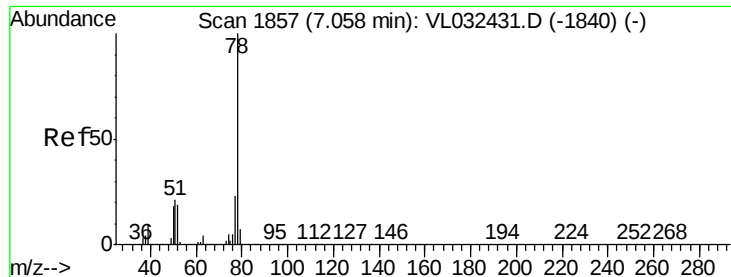
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#34
 2-Butanone
 Concen: 11.48 ppbv
 RT: 5.36 min Scan# 1330
 Delta R.T. -0.01 min
 Lab File: VL032471.D
 Acq: 6 Sep 2018 1:12

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.1	17.8	26.6





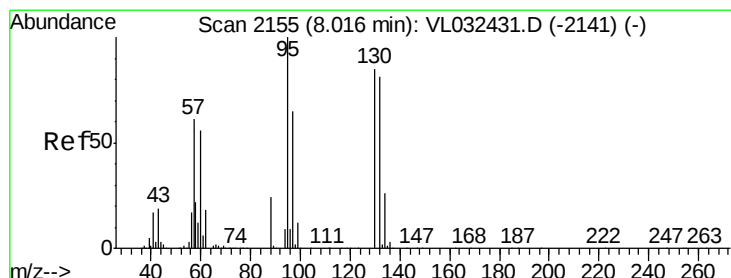
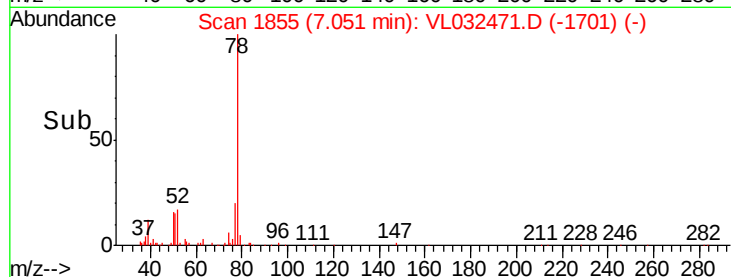
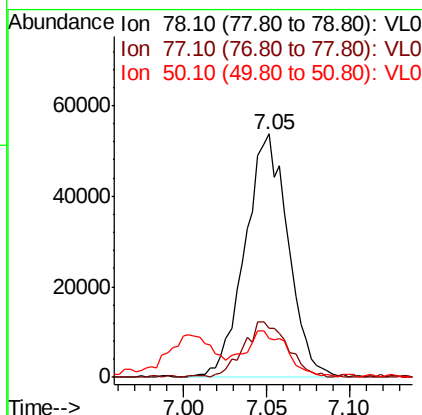
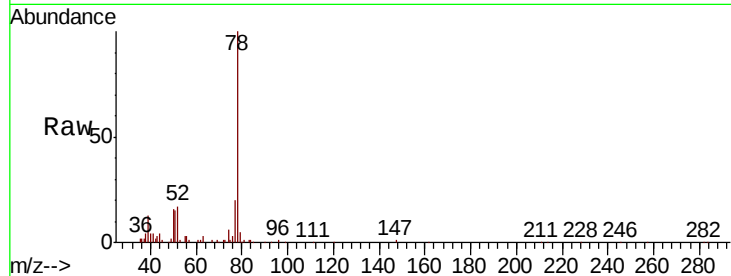
#36
Benzene
Concen: 0.36 ppbv
RT: 7.05 min Scan# 1855
Delta R.T. -0.01 min
Lab File: VL032471.D
Acq: 6 Sep 2018 1:12

Instrument :
MSVOA_L
ClientSampleId :
VP-3

Tot Ion	Ratio	Lower	Upper
78	100		
77	19.5	18.4	27.6
50	15.8	14.4	21.6

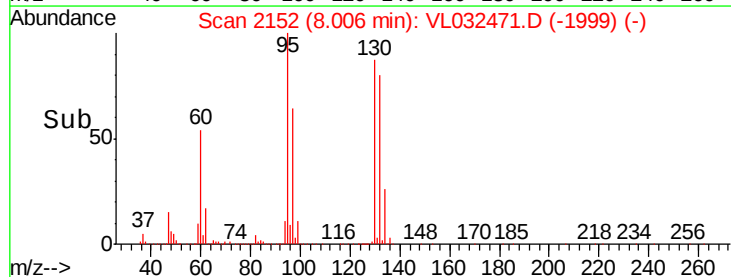
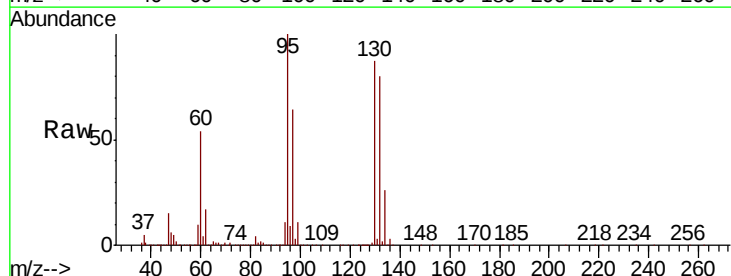
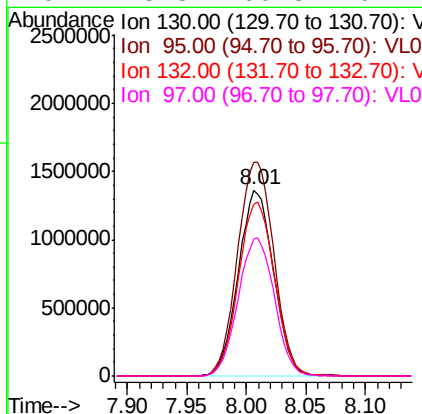
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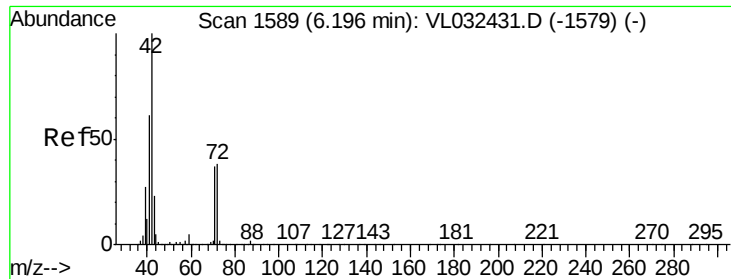
MMDadoda
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#38
Trichloroethene
Concen: 27.66 ppbv
RT: 8.01 min Scan# 2152
Delta R.T. -0.01 min
Lab File: VL032471.D
Acq: 6 Sep 2018 1:12

Tgt Ion	Ratio	Lower	Upper
130	100		
95	114.6	94.2	141.4
132	92.0	76.2	114.4
97	73.3	60.8	91.2





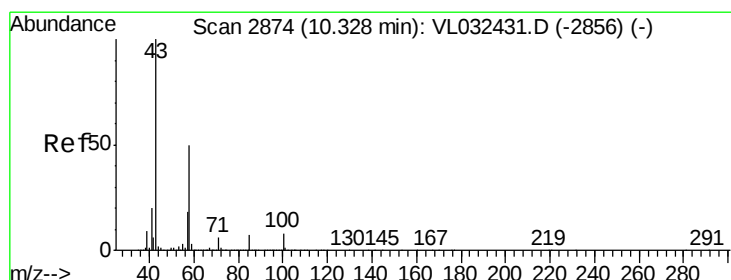
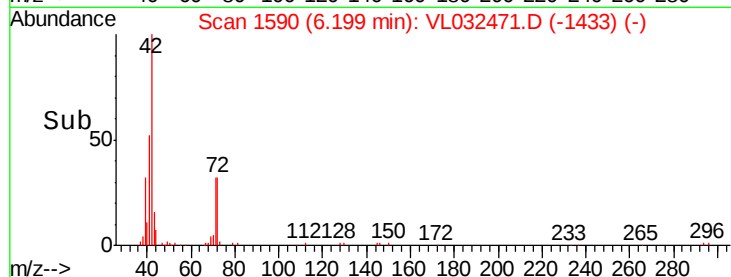
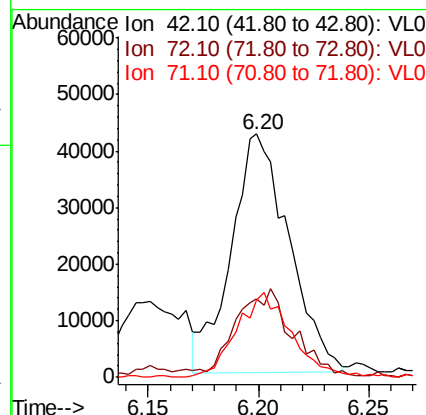
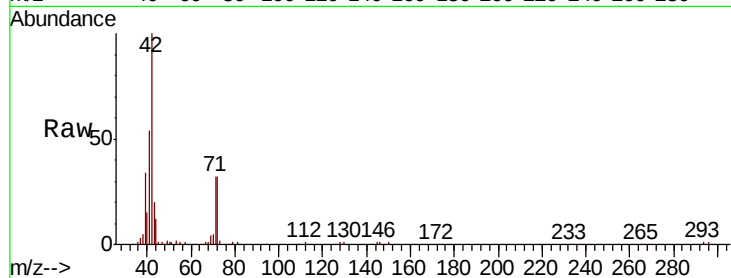
#41
Tetrahydrofuran
Concen: 0.68 ppbv
RT: 6.20 min Scan# 1590
Delta R.T. 0.00 min
Lab File: VL032471.D
Acq: 6 Sep 2018 1:12

Instrument :
MSVOA_L
ClientSampled :
VP-3

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.1	29.5	44.3
71	33.5	28.3	42.5

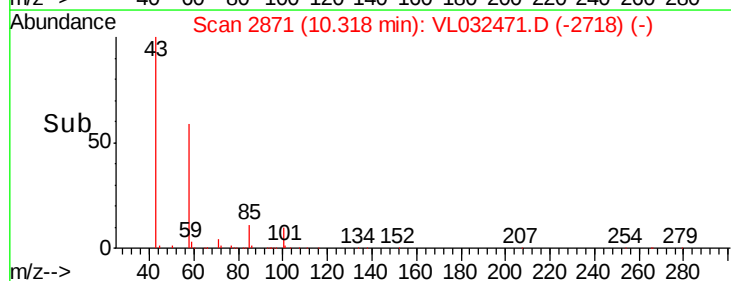
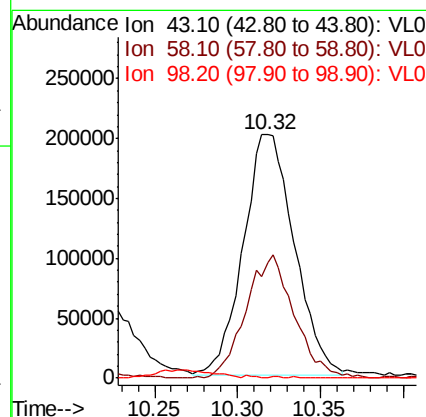
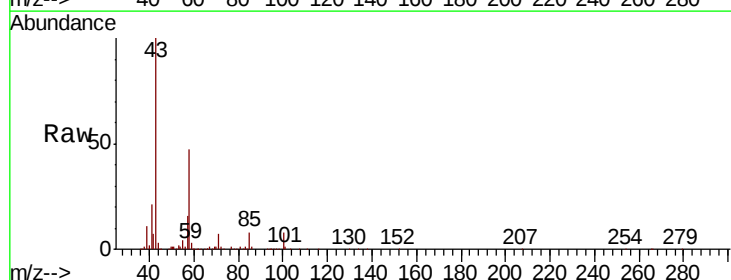
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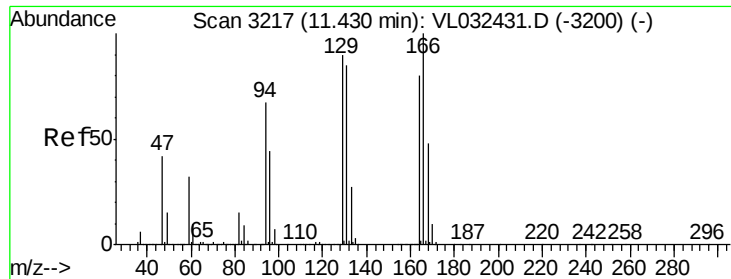
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#51
2-Hexanone
Concen: 2.14 ppbv
RT: 10.32 min Scan# 2871
Delta R.T. -0.01 min
Lab File: VL032471.D
Acq: 6 Sep 2018 1:12

Tgt Ion	Ratio	Lower	Upper
43	100		
58	48.2	39.2	58.8
98	0.5	0.4	0.6





#52

Tetrachloroethene

Concen: 0.71 ppbv m

RT: 11.42 min Scan# 3214

Delta R.T. -0.01 min

Lab File: VL032471.D

Acq: 6 Sep 2018 1:12

Instrument :

MSVOA_L

ClientSampled :

VP-3

Tot Ion:164 Resp: 58389

Ion Ratio Lower Upper

164 100

166 136.2 100.6 150.8

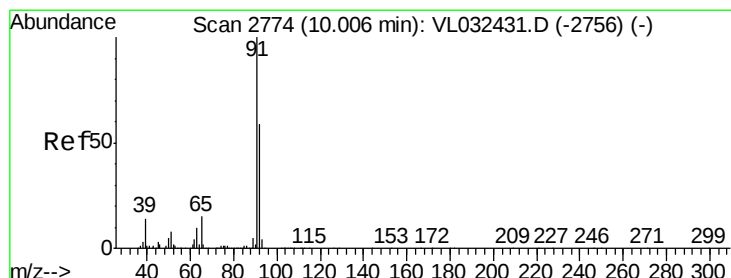
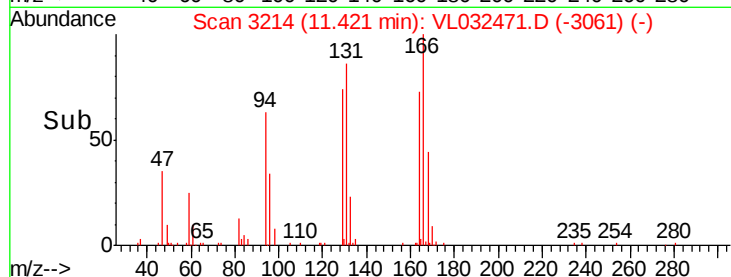
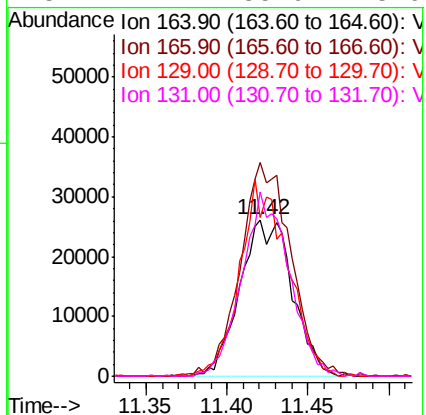
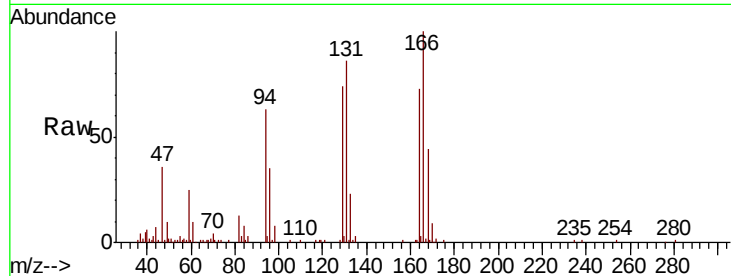
129 101.3 89.9 134.9

131 117.2 85.9 128.9

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#53

Toluene

Concen: 0.76 ppbv

RT: 9.99 min Scan# 2770

Delta R.T. -0.01 min

Lab File: VL032471.D

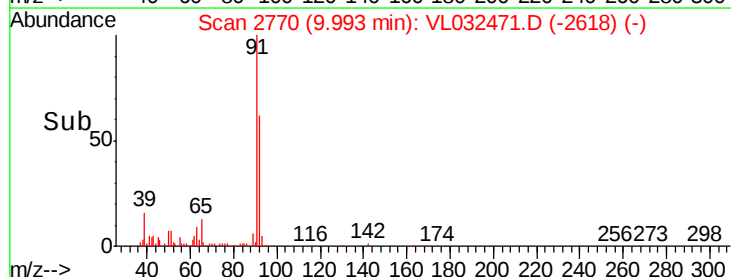
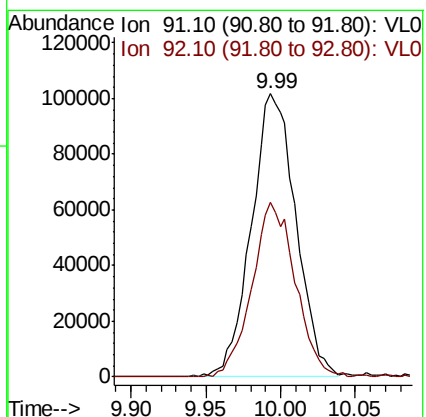
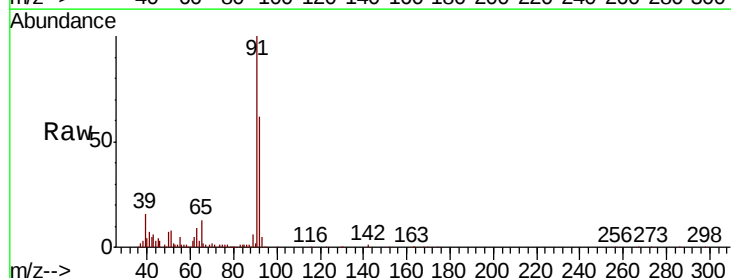
Acq: 6 Sep 2018 1:12

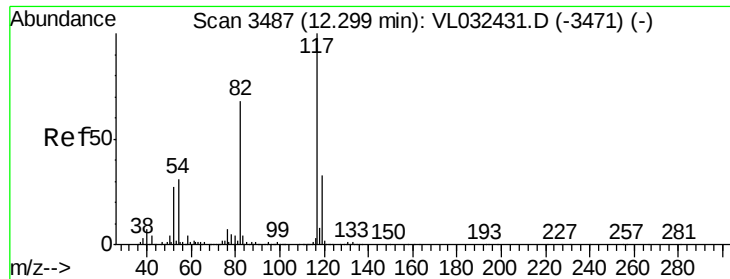
Tgt Ion: 91 Resp: 210828

Ion Ratio Lower Upper

91 100

92 60.2 48.1 72.1





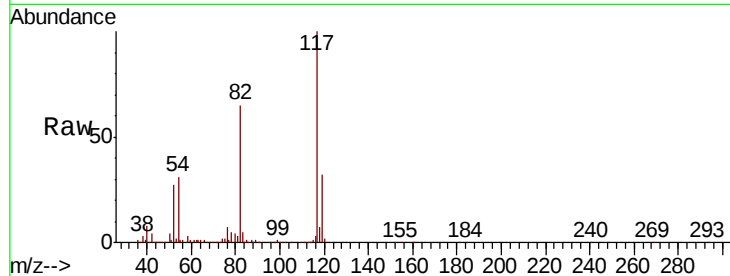
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.29 min Scan# 3485
Delta R.T. -0.01 min
Lab File: VL032471.D
Acq: 6 Sep 2018 1:12

Instrument :
MSVOA_L
ClientSampled :
VP-3

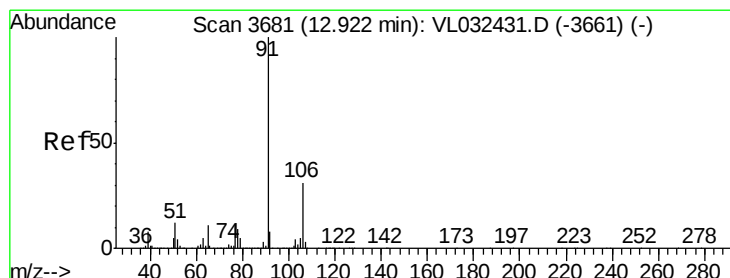
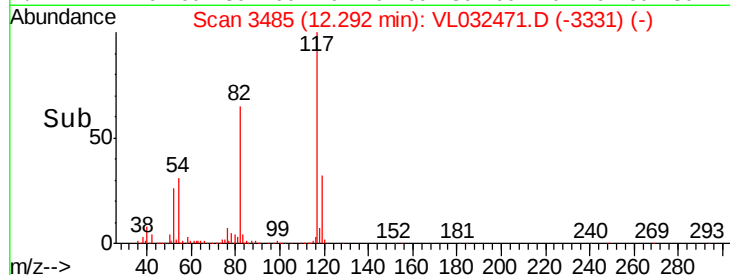
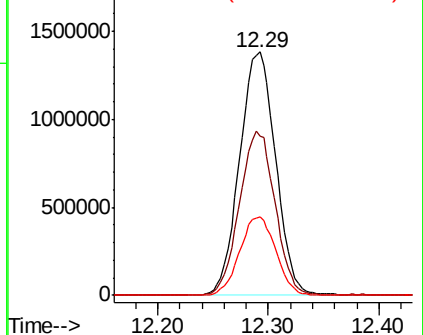
Tot Ion	Ratio	Lower	Upper
117	100		
82	66.7	53.0	79.6
119	32.5	45.9	68.9#

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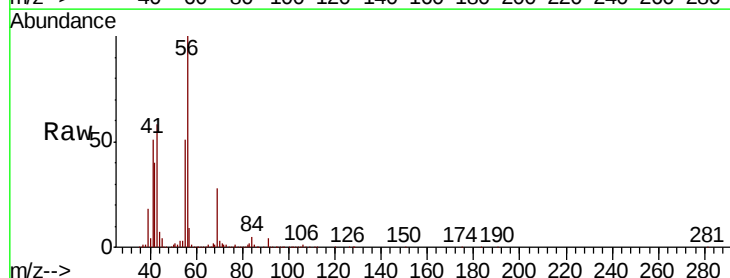


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

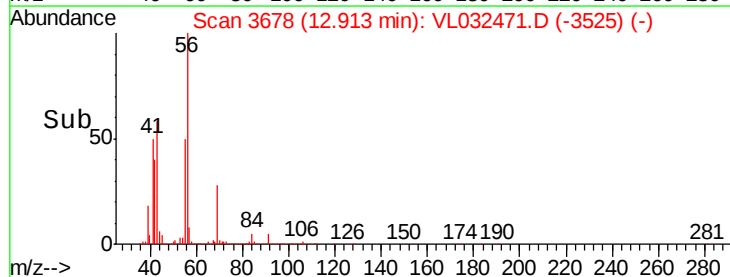
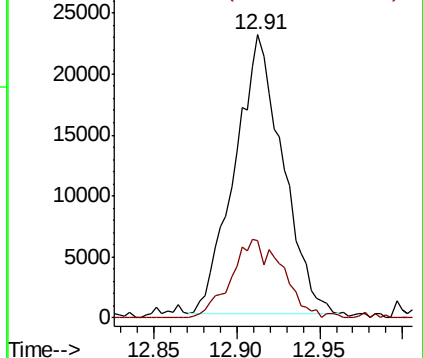


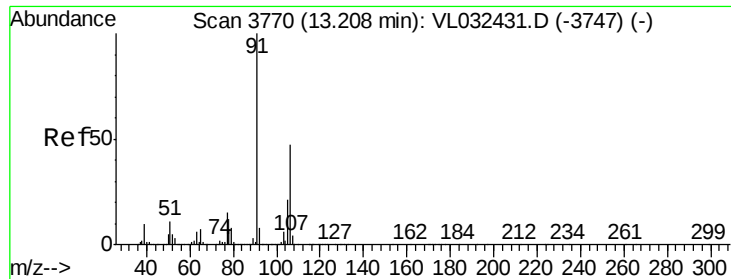
#58
Ethyl Benzene
Concen: 0.12 ppbv
RT: 12.91 min Scan# 3678
Delta R.T. -0.01 min
Lab File: VL032471.D
Acq: 6 Sep 2018 1:12

Tgt Ion	Ratio	Lower	Upper
91	100		
106	27.7	24.8	37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





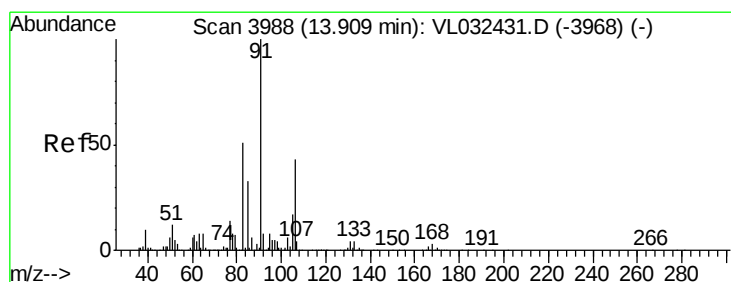
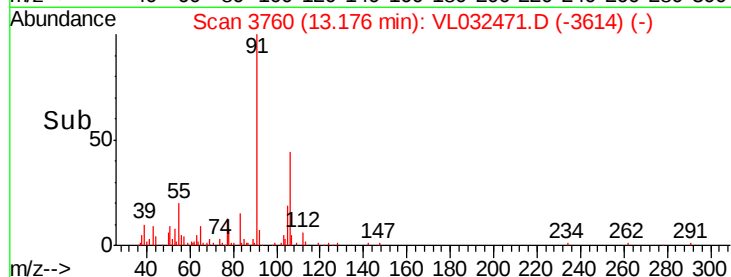
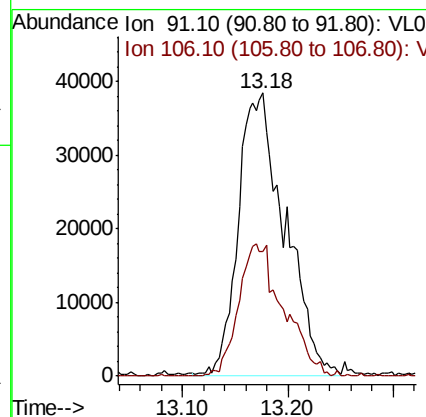
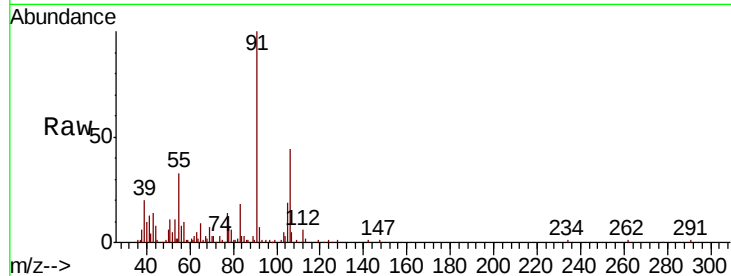
#59
m/p-Xylene
Concen: 0.35 ppbv m
RT: 13.18 min Scan# 3760
Delta R.T. -0.03 min
Lab File: VL032471.D
Acq: 6 Sep 2018 1:12

Instrument :
MSVOA_L
ClientSampled :
VP-3

Tot Ion: 91 Resp: 118620
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#

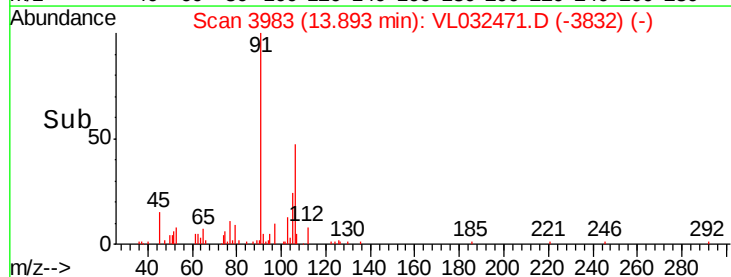
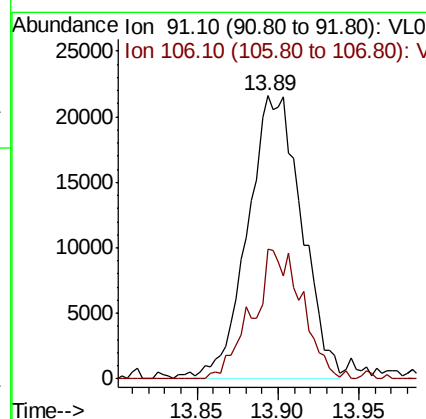
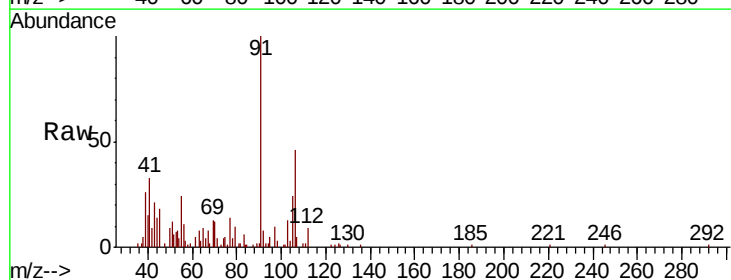
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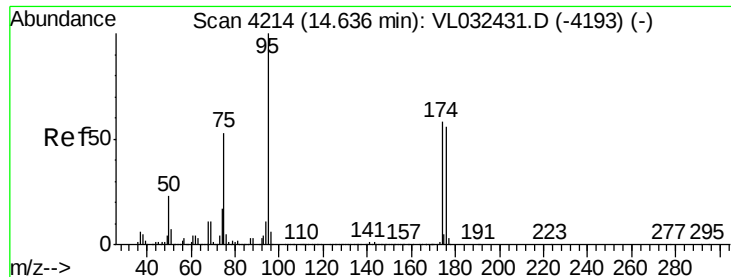
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#60
o-Xylene
Concen: 0.15 ppbv m
RT: 13.89 min Scan# 3983
Delta R.T. -0.02 min
Lab File: VL032471.D
Acq: 6 Sep 2018 1:12

Tgt Ion: 91 Resp: 49902
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.7#





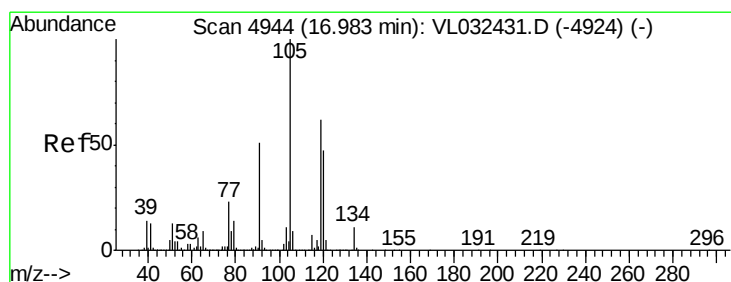
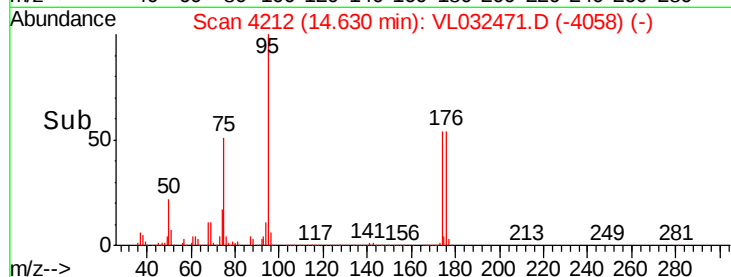
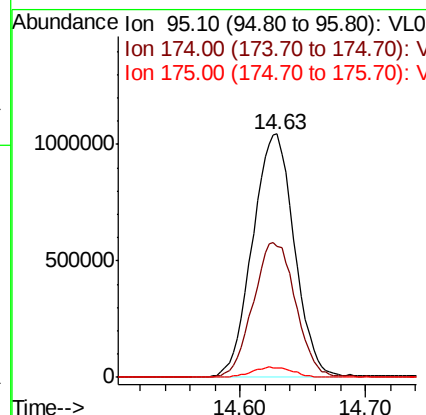
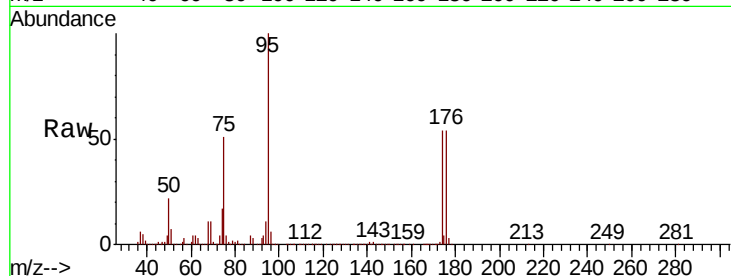
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.40 ppbv
 RT: 14.63 min Scan# 4212
 Delta R.T. -0.01 min
 Lab File: VL032471.D
 Acq: 6 Sep 2018 1:12

Instrument :
 MSVOA_L
 ClientSampled :
 VP-3

Tot Ion	Ratio	Lower	Upper
95	100		
174	56.8	46.3	69.5
175	4.2	3.4	5.0

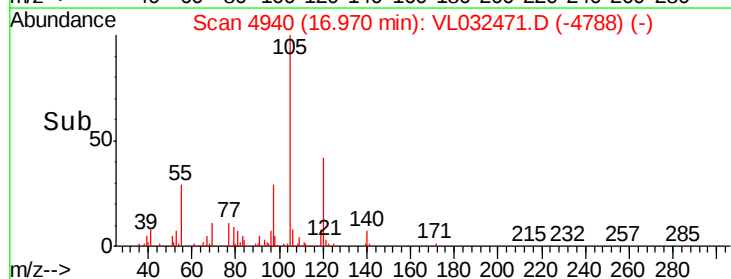
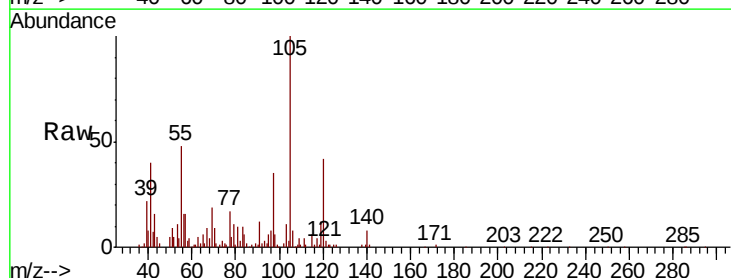
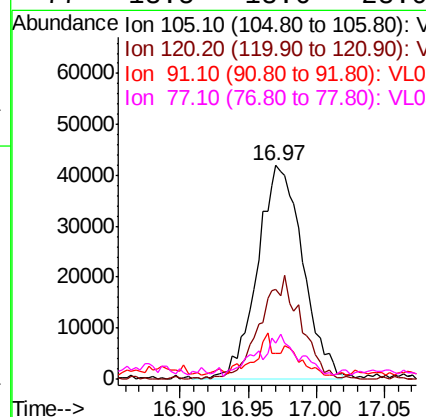
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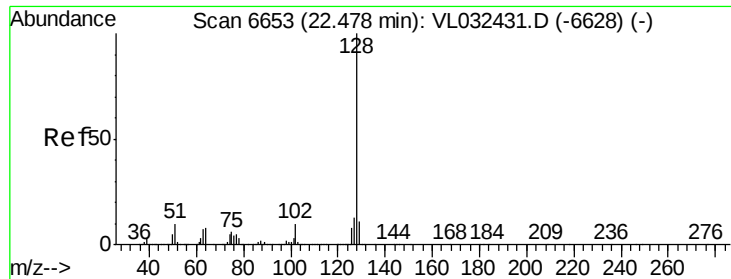
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.25 ppbv
 RT: 16.97 min Scan# 4940
 Delta R.T. -0.01 min
 Lab File: VL032471.D
 Acq: 6 Sep 2018 1:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	41.5	37.8	56.8
91	9.8	41.4	62.0#
77	13.5	18.6	28.0#





#79

Naphthalene

Concen: 3.66 ppbv

RT: 22.47 min Scan# 6651

Delta R.T. -0.01 min

Lab File: VL032471.D

Acq: 6 Sep 2018 1:12

Instrument :

MSVOA_L

ClientSampled :

VP-3

Tot Ion:128 Resp: 1168630

Ion Ratio Lower Upper

128 100

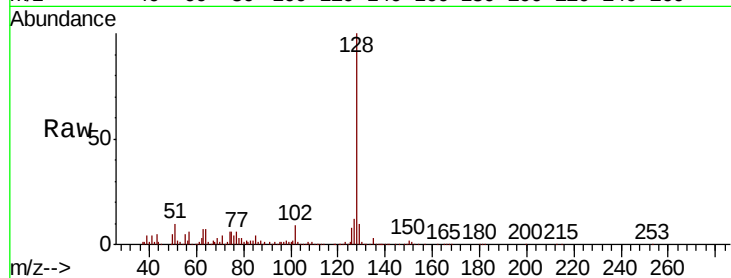
127 12.1 10.2 15.2

129 10.2 8.5 12.7

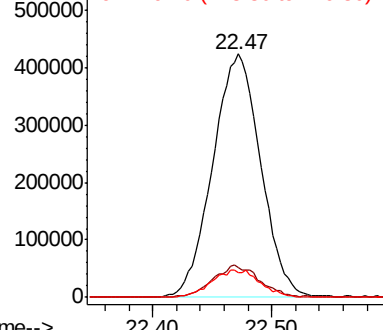
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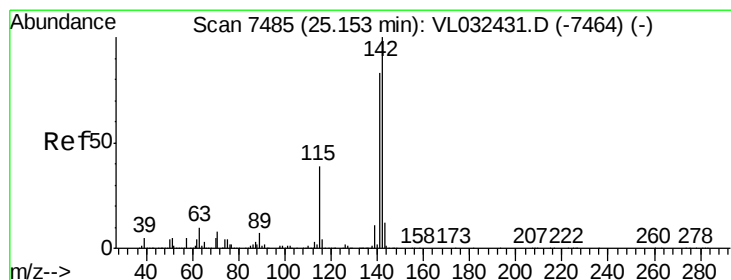
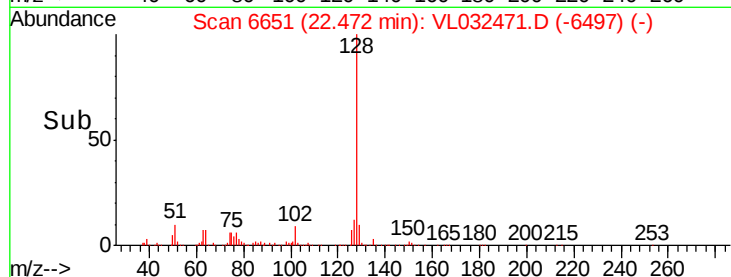
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



Time-->



#80

Naphthalene, 2-methyl-

Concen: 3.56 ppbv

RT: 25.15 min Scan# 7485

Delta R.T. 0.00 min

Lab File: VL032471.D

Acq: 6 Sep 2018 1:12

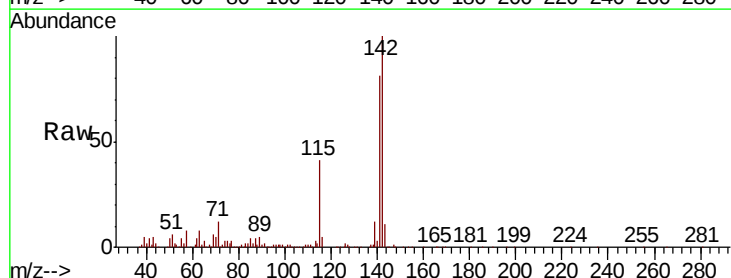
Tgt Ion:142 Resp: 302564

Ion Ratio Lower Upper

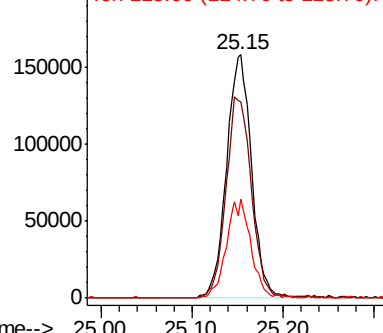
142 100

141 84.7 67.0 100.6

115 39.9 31.3 46.9



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V



Time-->

