

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
 Data File : VL031871.D
 Acq On : 12 Apr 2018 18:46
 Operator : SY/AP
 Sample : J2191-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSDS-INF-040218

Manual Integrations
 APPROVED

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 4/15/2018 3:07:41 PM

Quant Time: Apr 14 03:36:32 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 16:50:02 2018
 QLast Update : Fri Apr 13 16:50:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1127907	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2443513	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2320751	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.73	95	1918935	10.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.17	85	489114	2.102	ppbv	97
3) Chlorodifluoromethane	3.10	51	36314m	0.277	ppbv	
4) Chloromethane	3.26	50	26886m	0.401	ppbv	
9) Propene	3.14	41	298206m	6.575	ppbv	
10) Heptane	8.39	43	464814	3.158	ppbv	98
11) Trichlorofluoromethane	4.11	101	2335431	10.239	ppbv	99
13) Ethanol	3.76	45	2875076	186.763	ppbv	99
15) Acetone	4.01	43	3680926	21.205	ppbv	98
20) Methylene Chloride	4.52	84	674620	10.670	ppbv	93
24) 1,1-Dichloroethane	5.21	63	29485	0.168	ppbv #	92
26) Hexane	5.91	57	598300	4.739	ppbv #	47
29) Chloroform	5.98	83	286790	1.340	ppbv	97
30) Cyclohexane	7.39	84	452670	5.021	ppbv	96
32) 1,1,1-Trichloroethane	6.76	97	94241m	0.452	ppbv	
34) 2-Butanone	5.46	43	223545	1.319	ppbv	98
35) Carbon Tetrachloride	7.28	117	18976m	0.089	ppbv	
36) Benzene	7.14	78	32125	0.146	ppbv	93
38) Trichloroethene	8.10	130	49619	0.556	ppbv	93
52) Tetrachloroethene	11.52	164	26644m	0.311	ppbv	
53) Toluene	10.10	91	5478719	22.353	ppbv	99
58) Ethyl Benzene	13.01	91	36581m	0.113	ppbv	
59) m/p-Xylene	13.27	91	158021m	0.565	ppbv	
60) o-Xylene	14.00	91	52878m	0.189	ppbv	
74) 1,2,4-Trimethylbenzene	17.08	105	40837m	0.140	ppbv	

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

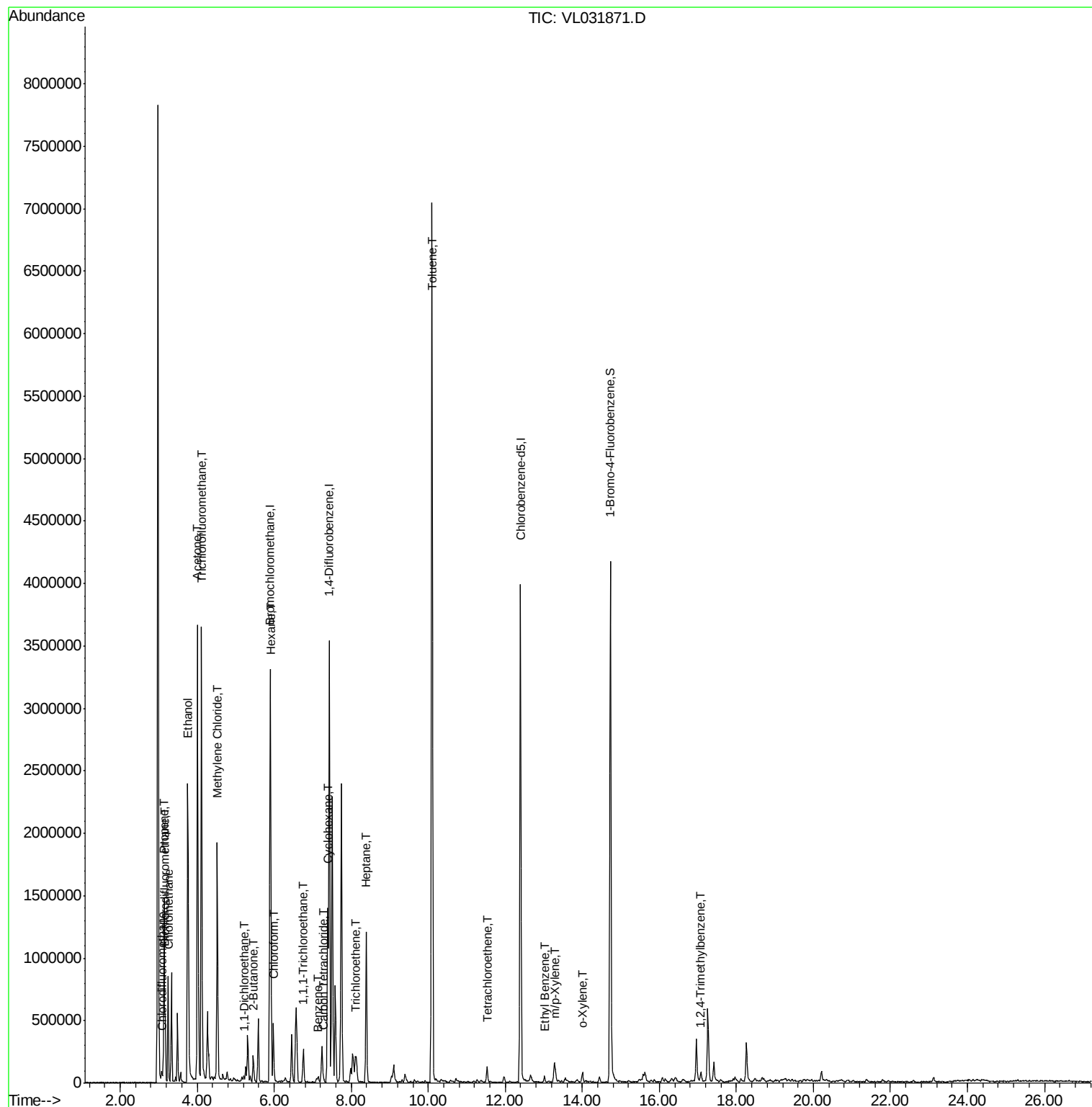
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
Data File : VL031871.D
Acq On : 12 Apr 2018 18:46
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Sample : J2191-03
Misc : 400ml/MSVOA L
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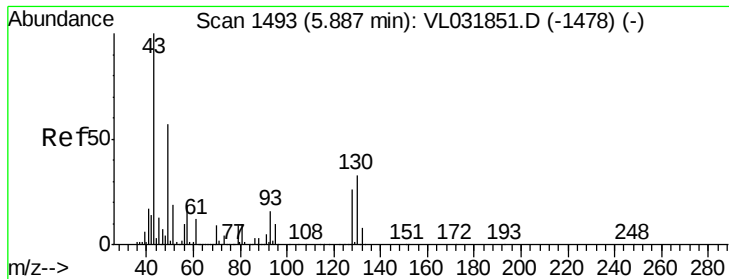
Instrument :
MSVOA_L
ClientSampleId :
SSDS-INF-040218

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Quant Time: Apr 14 03:36:32 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr
QLast Update : Fri Apr 13 16:50:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.89 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VL031871.D

Acq: 12 Apr 2018 18:46

Instrument :

MSVOA_L

ClientSampleId :

SSDS-INF-040218

Tot Ion: 49 Resp: 1127907

Ion Ratio Lower Upper

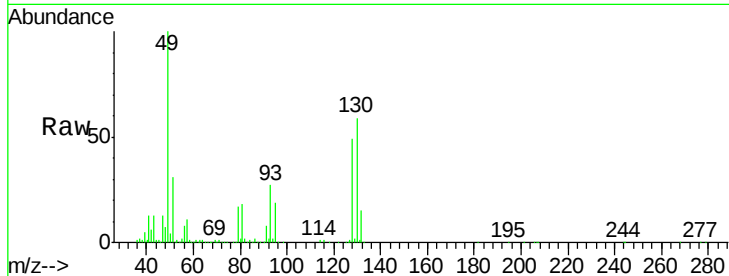
49 100

128 48.1 23.9 71.7

130 61.7 30.9 92.7

Manual Integrations
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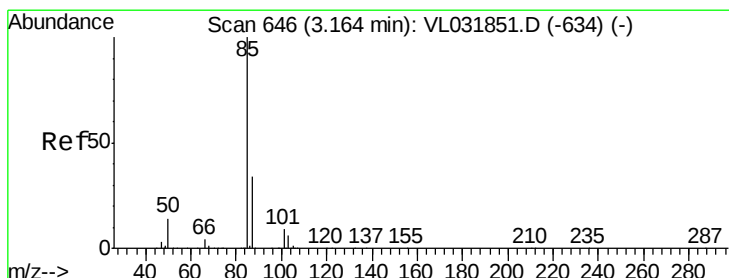
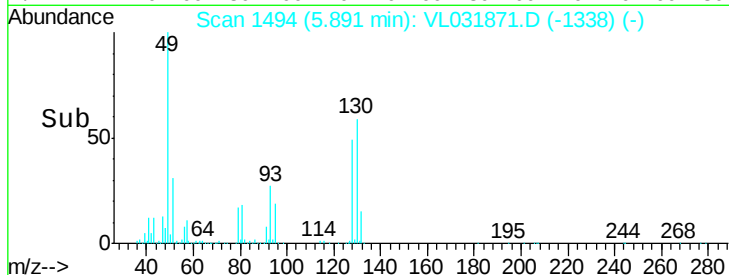
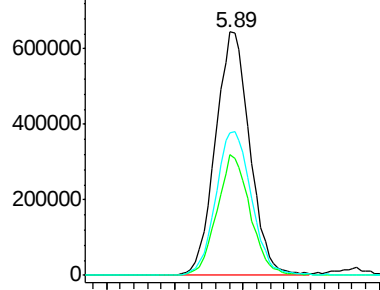
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 2.102 ppbv

RT: 3.17 min Scan# 647

Delta R.T. 0.00 min

Lab File: VL031871.D

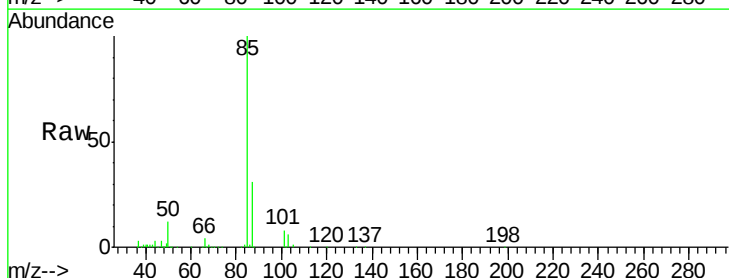
Acq: 12 Apr 2018 18:46

Tgt Ion: 85 Resp: 489114

Ion Ratio Lower Upper

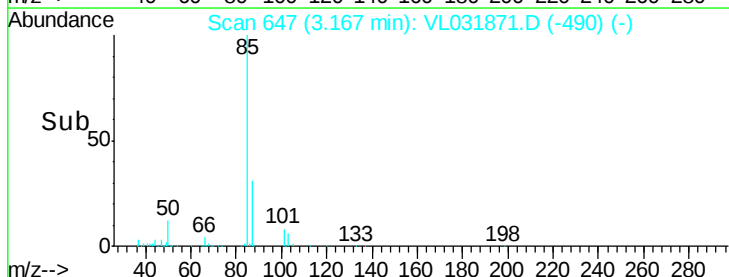
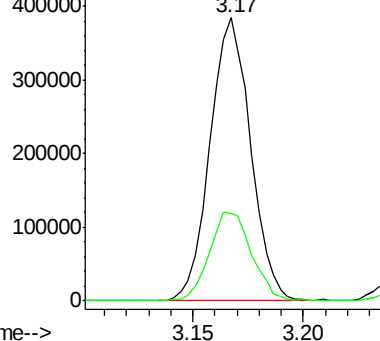
85 100

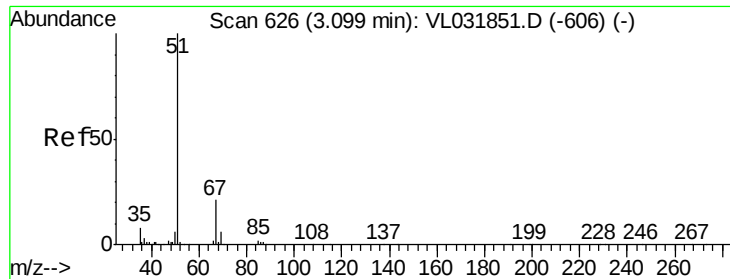
87 30.7 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.277 ppbv m

RT: 3.10 min Scan# 626

Delta R.T. -0.00 min

Lab File: VL031871.D

Acq: 12 Apr 2018 18:46

Instrument :

MSVOA_L

ClientSampleId :

SSDS-INF-040218

Tot Ion: 51 Resp: 36314

Ion Ratio Lower Upper

51 100

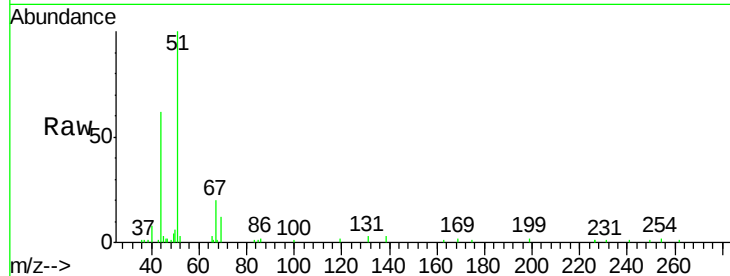
67 4.4 17.5 26.3#

Manual Integrations

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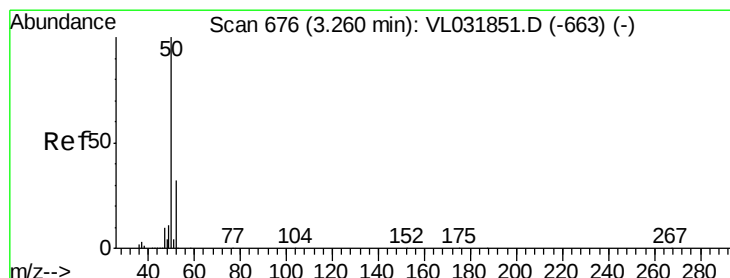
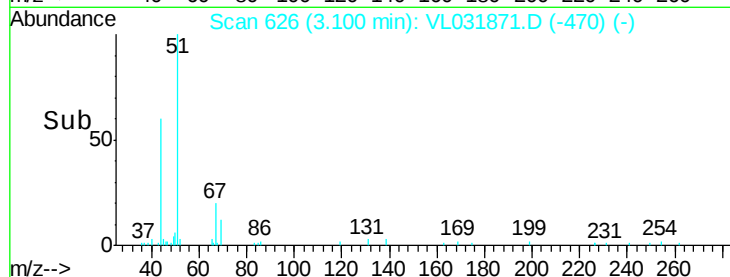
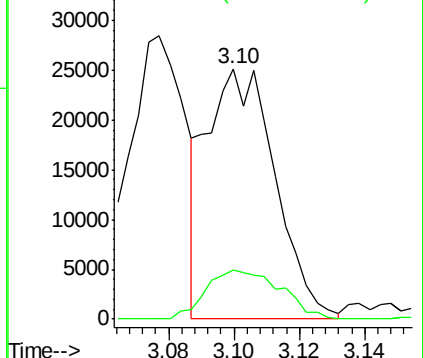
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.401 ppbv m

RT: 3.26 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL031871.D

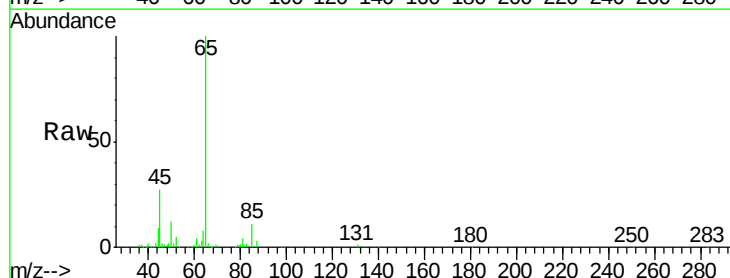
Acq: 12 Apr 2018 18:46

Tgt Ion: 50 Resp: 26886

Ion Ratio Lower Upper

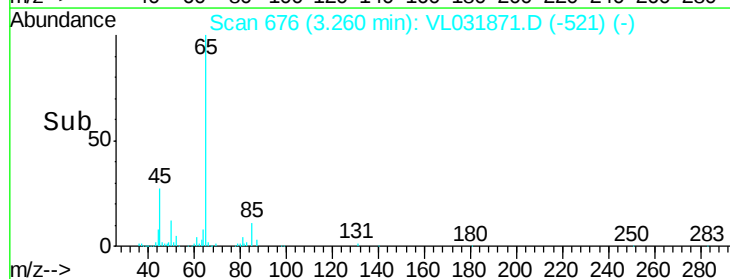
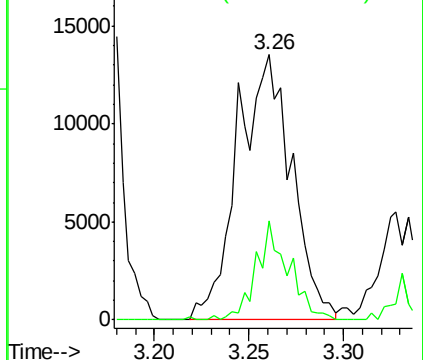
50 100

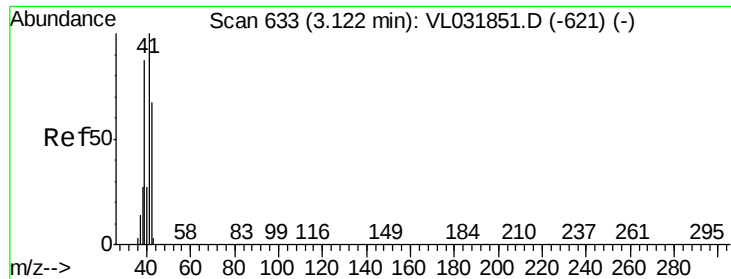
52 37.5 28.1 42.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 6.575 ppbv m

RT: 3.14 min Scan# 639

Delta R.T. 0.02 min

Lab File: VL031871.D

Acq: 12 Apr 2018 18:46

Instrument :

MSVOA_L

ClientSampleId :

SSDS-INF-040218

Tot Ion: 41 Resp: 298206

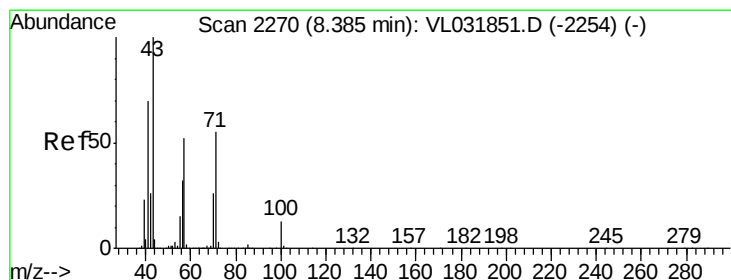
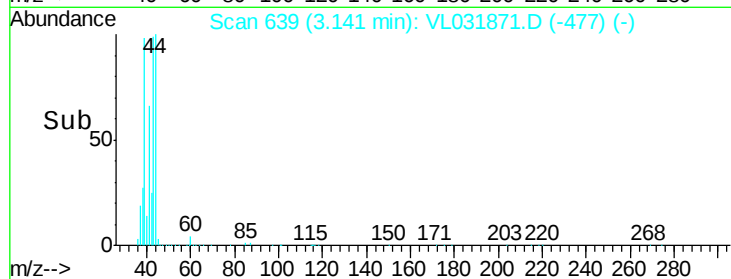
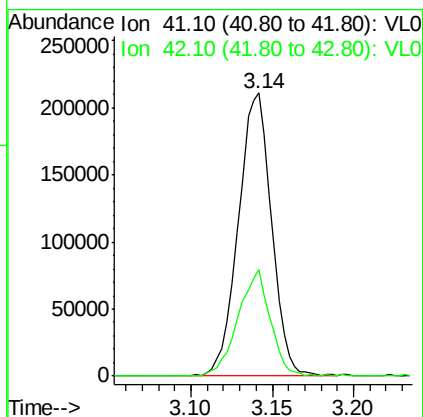
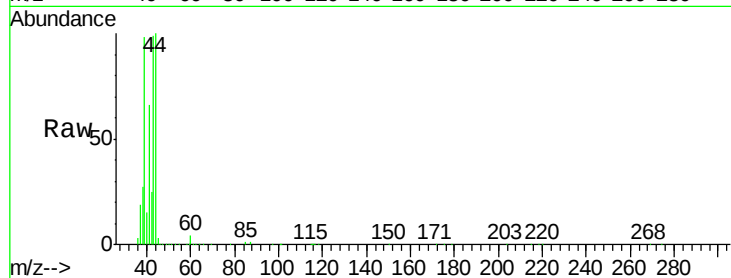
Ion Ratio Lower Upper

41 100

42 50.4 55.0 82.4#

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#10

Heptane

Concen: 3.158 ppbv

RT: 8.39 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VL031871.D

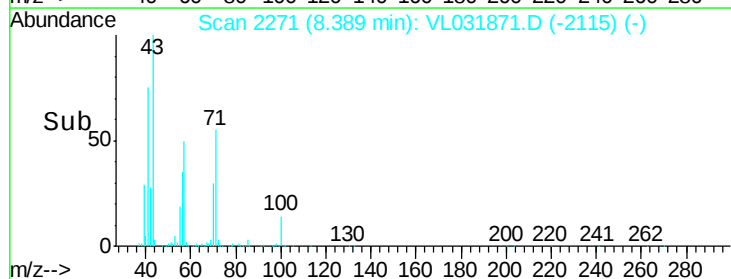
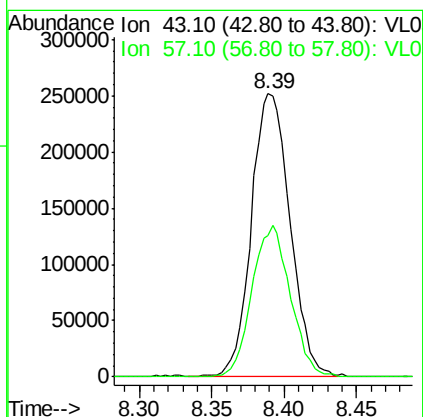
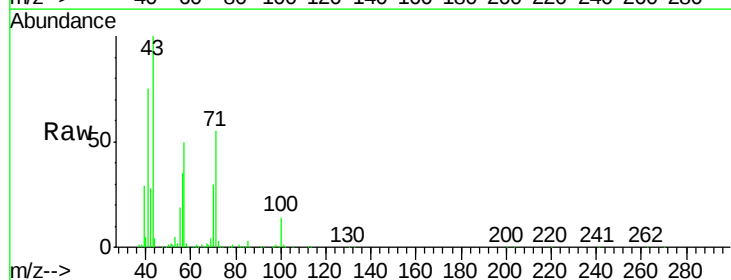
Acq: 12 Apr 2018 18:46

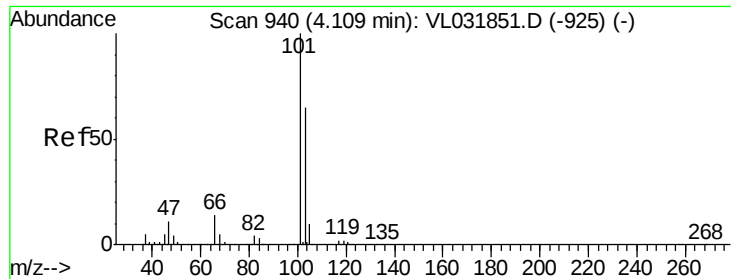
Tgt Ion: 43 Resp: 464814

Ion Ratio Lower Upper

43 100

57 53.4 41.5 62.3





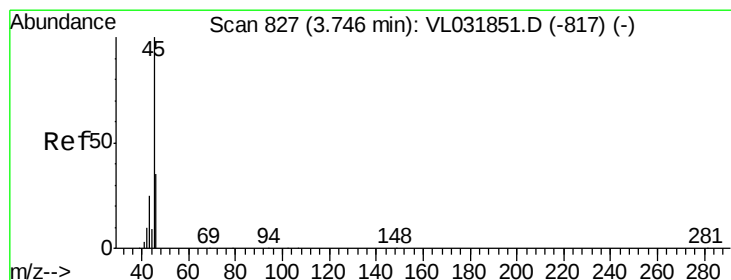
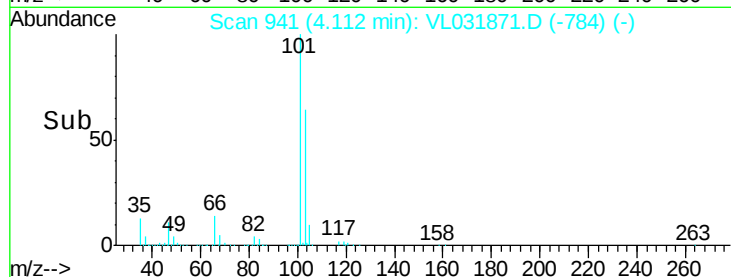
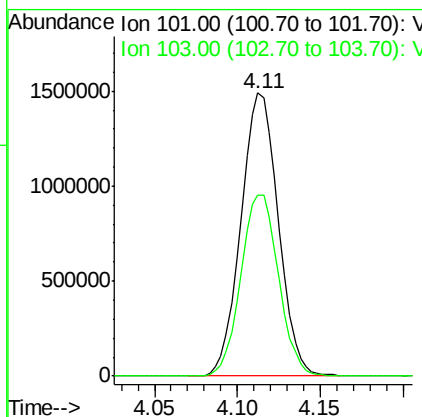
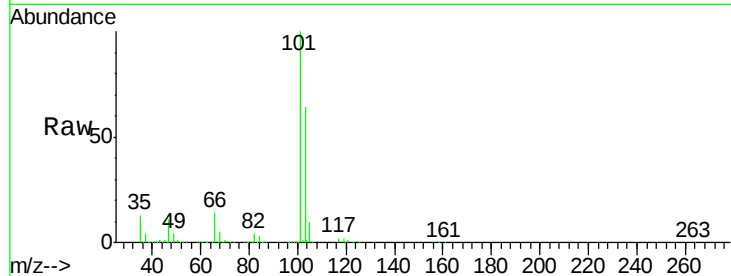
#11
 Trichlorofluoromethane
 Concen: 10.239 ppbv
 RT: 4.11 min Scan# 941
 Delta R.T. 0.00 min
 Lab File: VL031871.D
 Acq: 12 Apr 2018 18:46

Instrument :
 MSVOA_L
 ClientSampleId :
 SSDS-INF-040218

Tot Ion:101 Resp: 2335431
 Ion Ratio Lower Upper
 101 100
 103 63.7 51.8 77.8

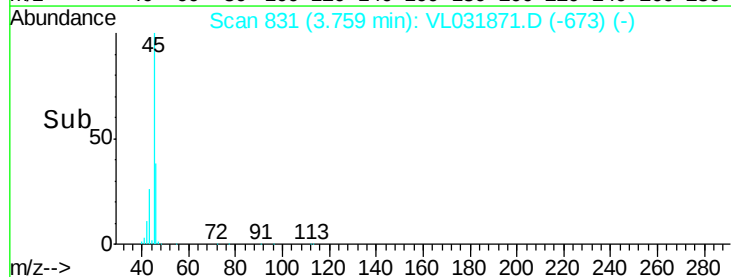
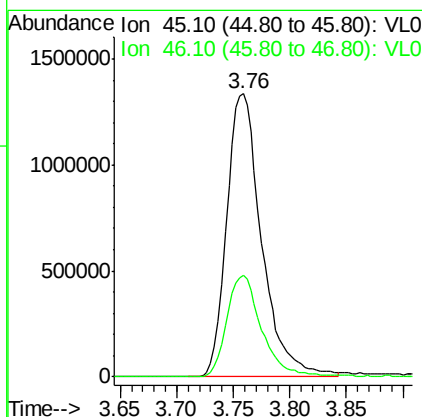
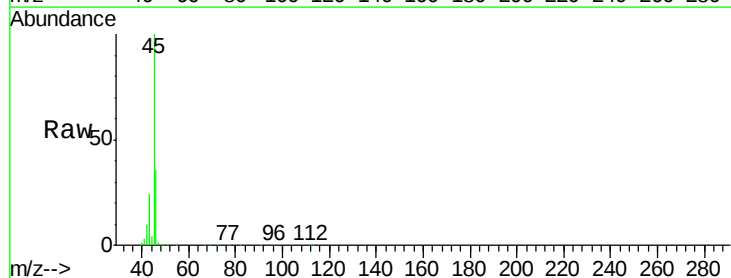
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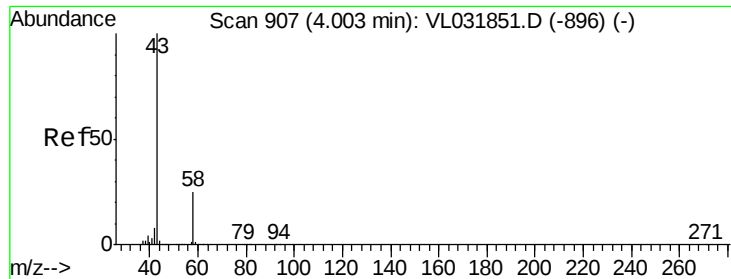
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#13
 Ethanol
 Concen: 186.763 ppbv
 RT: 3.76 min Scan# 831
 Delta R.T. 0.01 min
 Lab File: VL031871.D
 Acq: 12 Apr 2018 18:46

Tgt Ion: 45 Resp: 2875076
 Ion Ratio Lower Upper
 45 100
 46 36.1 14.6 58.6





#15

Acetone

Concen: 21.205 ppbv

RT: 4.01 min Scan# 908

Delta R.T. 0.00 min

Lab File: VL031871.D

Acq: 12 Apr 2018 18:46

Instrument :

MSVOA_L

ClientSampleId :

SSDS-INF-040218

Tot Ion: 43 Resp: 3680926

Ion Ratio Lower Upper

43 100

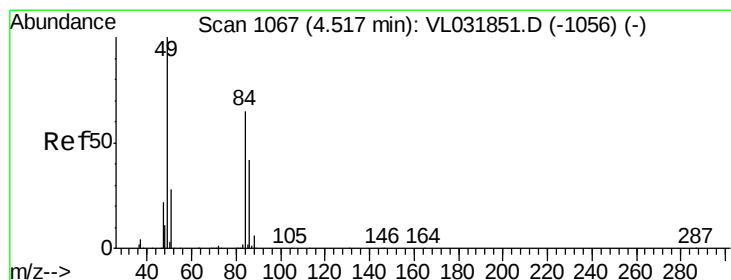
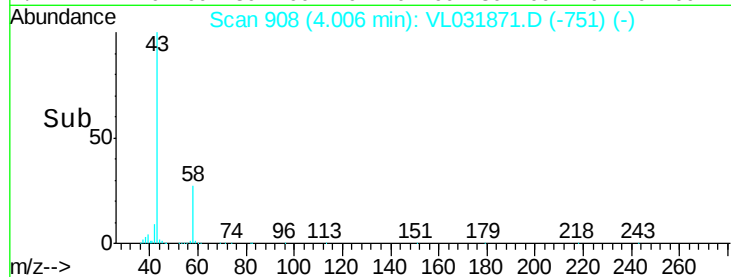
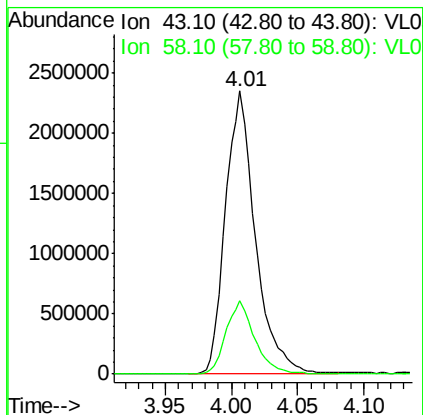
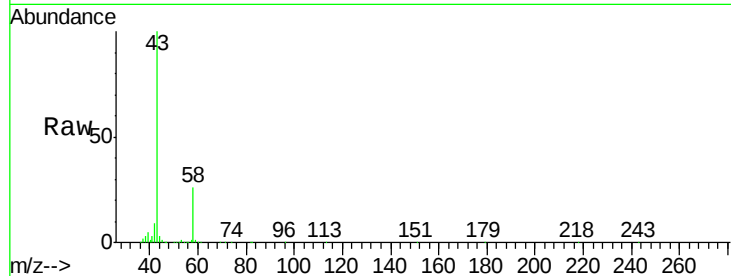
58 25.0 20.9 31.3

Manual Integrations

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#20

Methylene Chloride

Concen: 10.670 ppbv

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VL031871.D

Acq: 12 Apr 2018 18:46

Tgt Ion: 84 Resp: 674620

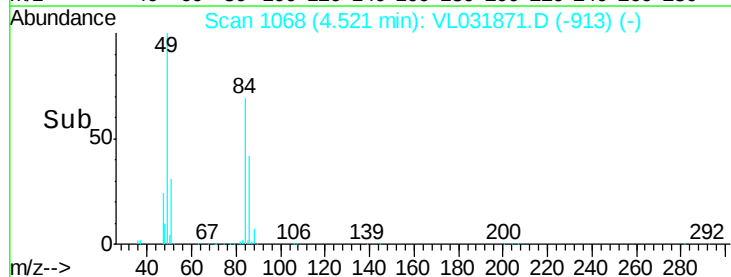
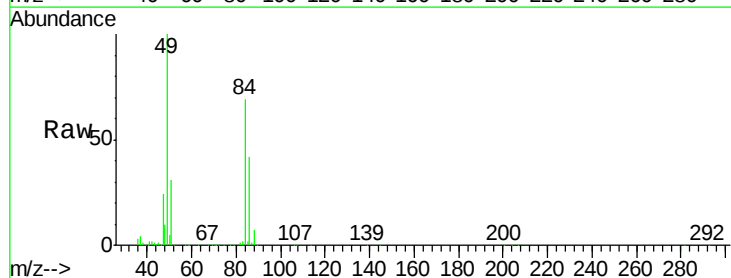
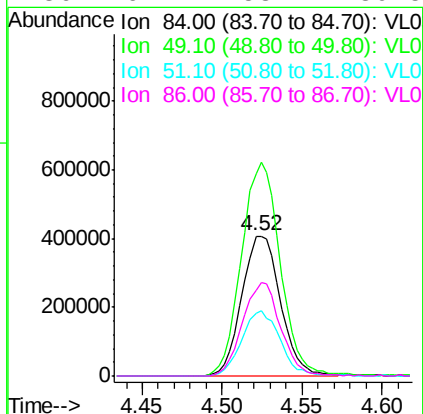
Ion Ratio Lower Upper

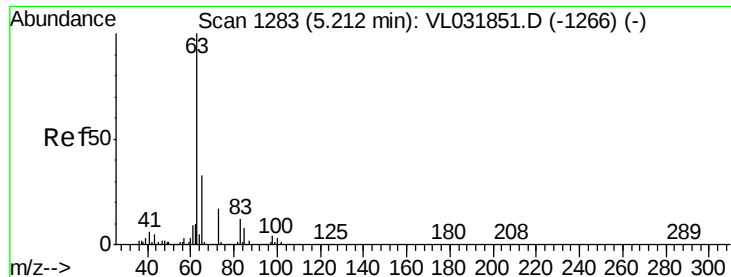
84 100

49 144.6 125.6 188.4

51 45.1 36.4 54.6

86 61.1 53.7 80.5





#24

1,1-Dichloroethane

Concen: 0.168 ppbv

RT: 5.21 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VL031871.D

Acq: 12 Apr 2018 18:46

Instrument :

MSVOA_L

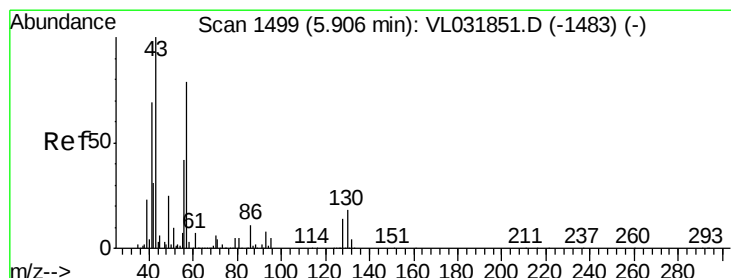
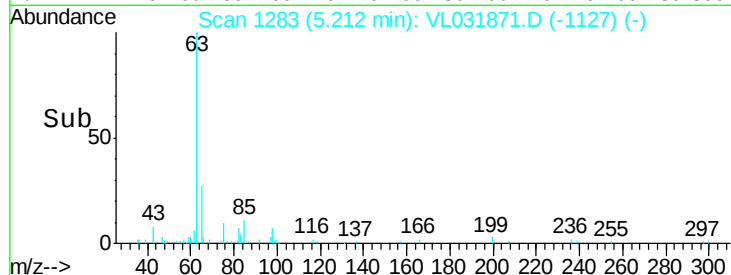
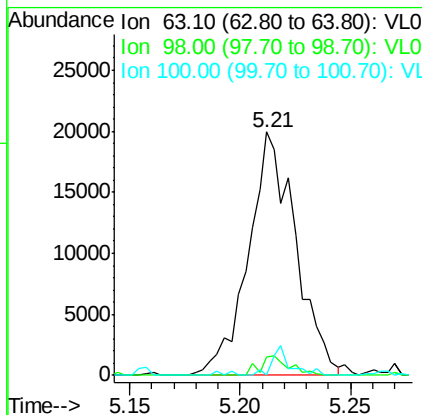
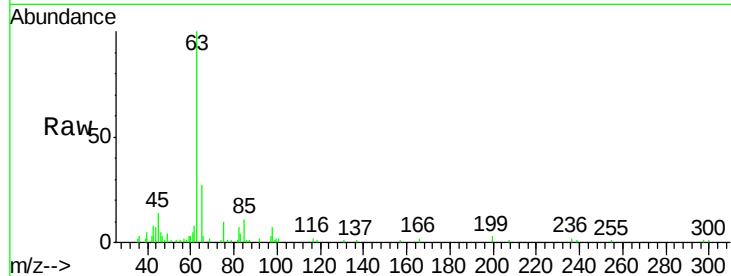
ClientSampleId :

SSDS-INF-040218

Tot Ion	Ratio	Lower	Upper
63	100		
98	7.5	2.4	7.2#
100	0.0	1.5	4.4#

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#26

Hexane

Concen: 4.739 ppbv

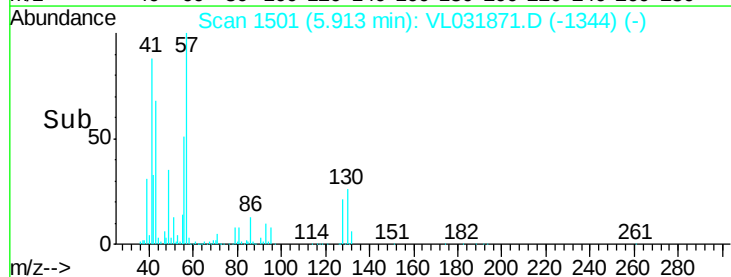
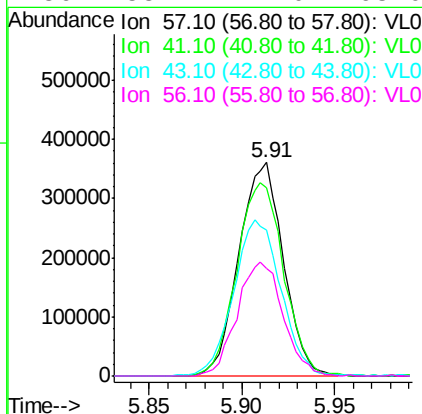
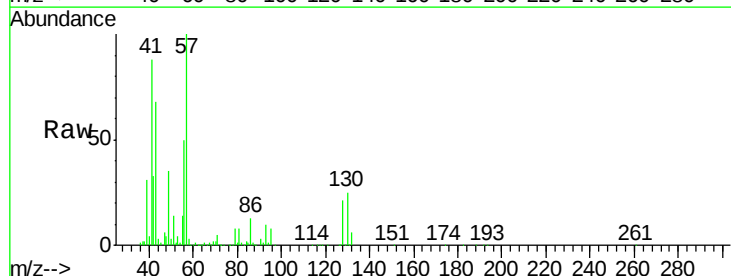
RT: 5.91 min Scan# 1501

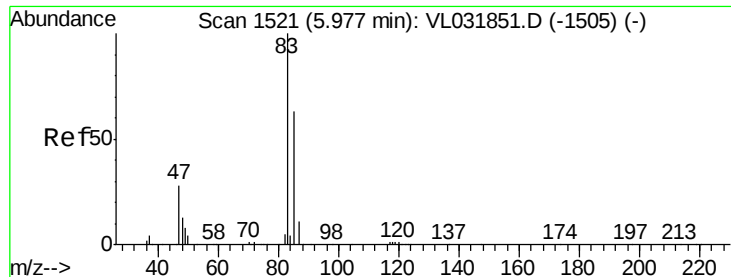
Delta R.T. 0.01 min

Lab File: VL031871.D

Acq: 12 Apr 2018 18:46

Tgt Ion	Ratio	Lower	Upper
57	100		
41	96.7	72.0	108.0
43	78.6	169.8	254.8#
56	55.4	42.0	63.0





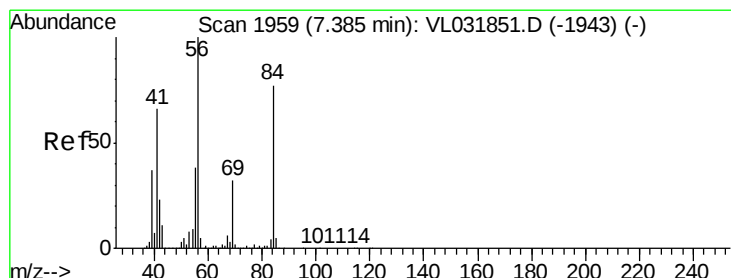
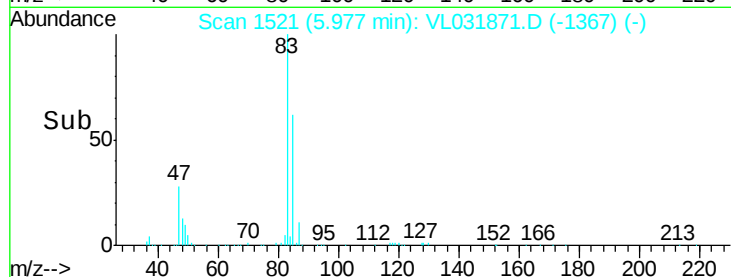
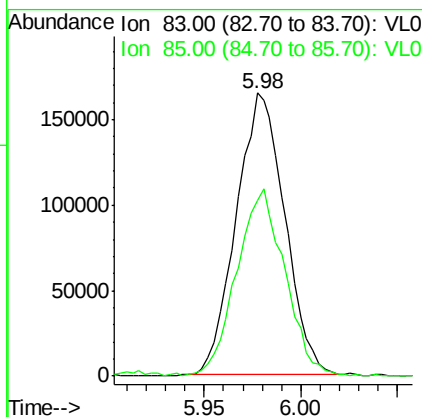
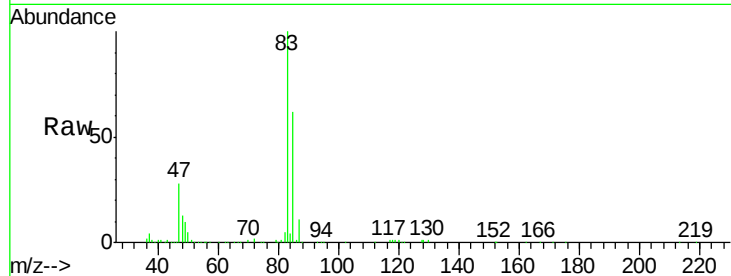
#29
Chloroform
Concen: 1.340 ppbv
RT: 5.98 min Scan# 1521
Delta R.T. -0.00 min
Lab File: VL031871.D
Acq: 12 Apr 2018 18:46

Instrument :
MSVOA_L
ClientSampleId :
SSDS-INF-040218

Tot Ion	83	Resp	286790
Ion Ratio	Lower	Upper	
83	100		
85	62.2	51.4	77.0

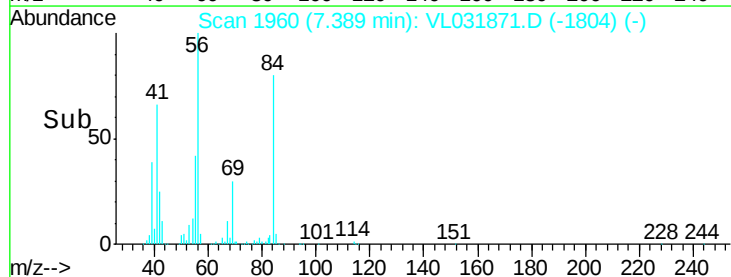
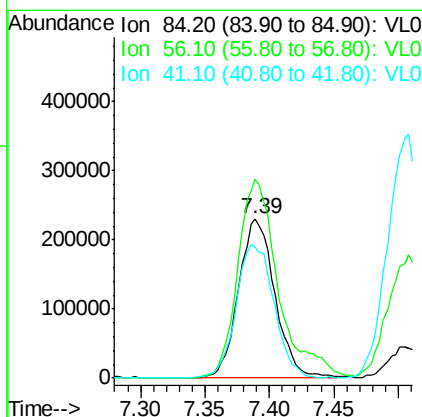
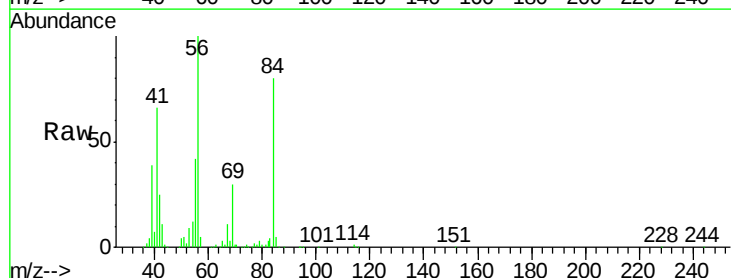
Manual Integrations
APPROVED

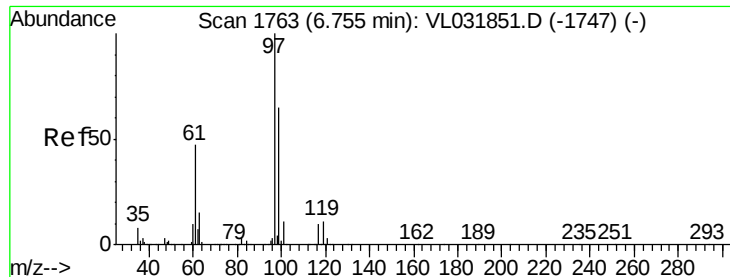
MMDadoda
4/15/2018 3:07:41 PM



#30
Cyclohexane
Concen: 5.021 ppbv
RT: 7.39 min Scan# 1960
Delta R.T. -0.00 min
Lab File: VL031871.D
Acq: 12 Apr 2018 18:46

Tgt Ion	84	Resp	452670
Ion Ratio	Lower	Upper	
84	100		
56	139.9	107.7	161.5
41	87.2	68.2	102.2





#32

1,1,1-Trichloroethane

Concen: 0.452 ppbv m

RT: 6.76 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VL031871.D

Acq: 12 Apr 2018 18:46

Instrument :

MSVOA_L

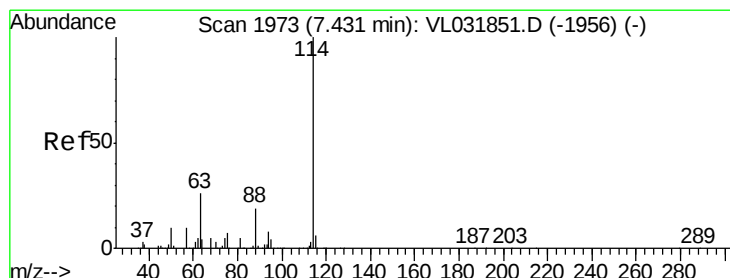
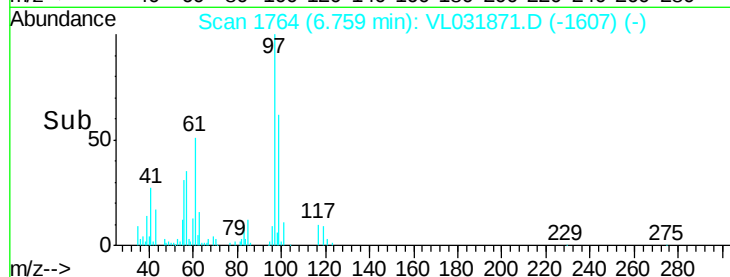
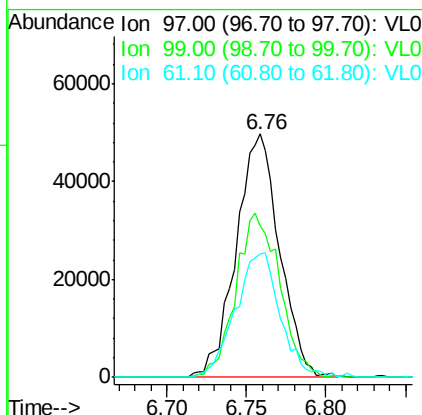
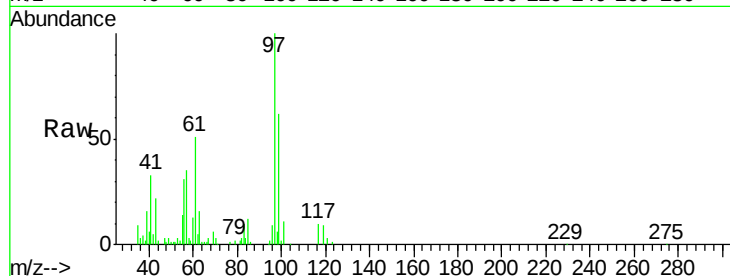
ClientSampleId :

SSDS-INF-040218

Tot Ion:	97	Resp:	94241
Ion	Ratio	Lower	Upper
97	100		
99	68.0	51.5	77.3
61	53.0	40.0	60.0

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

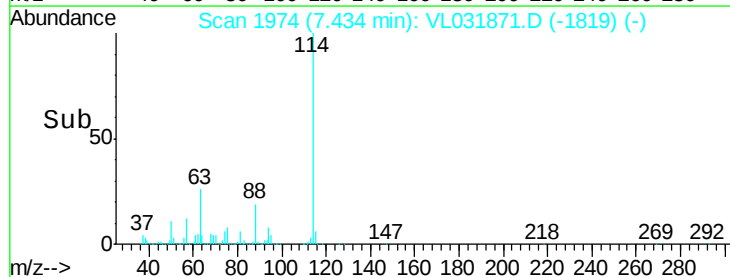
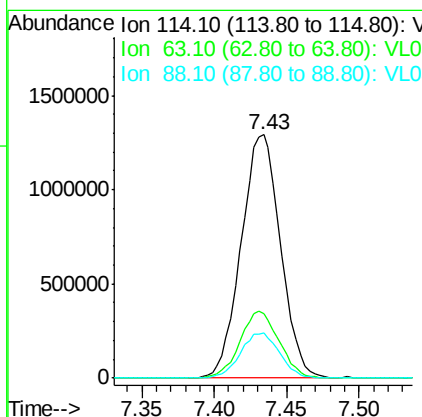
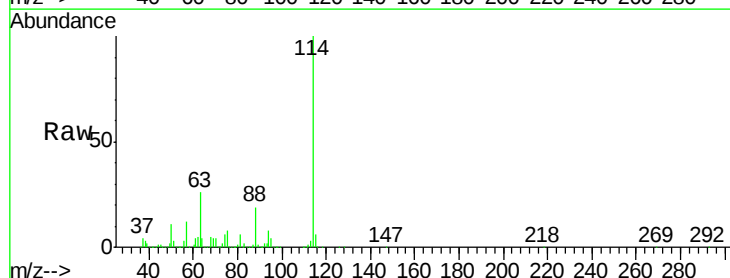
RT: 7.43 min Scan# 1974

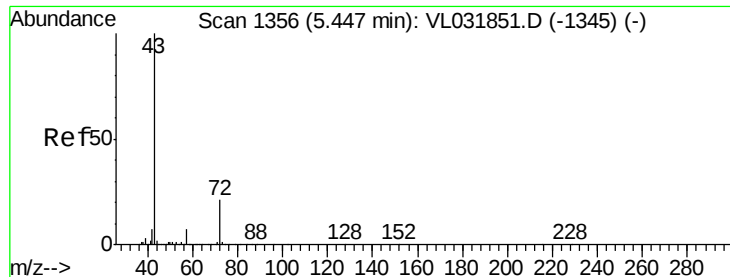
Delta R.T. -0.00 min

Lab File: VL031871.D

Acq: 12 Apr 2018 18:46

Tgt Ion:	114	Resp:	2443513
Ion	Ratio	Lower	Upper
114	100		
63	27.4	21.8	32.6
88	18.6	14.6	22.0





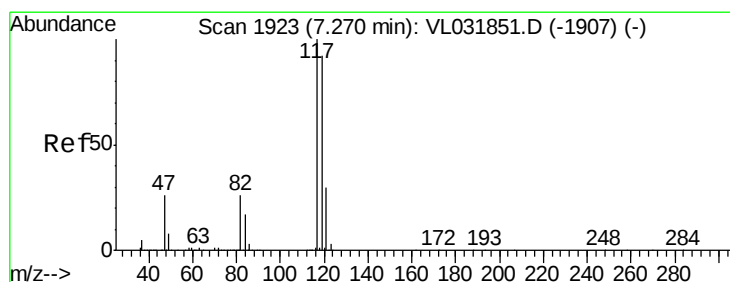
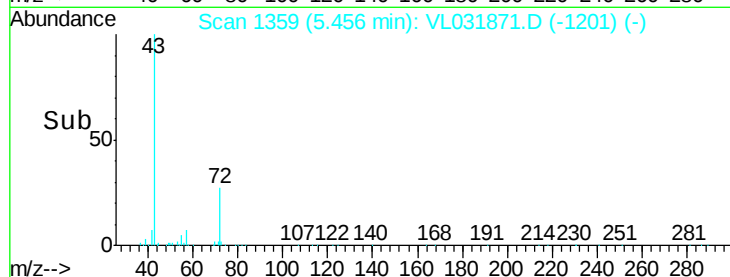
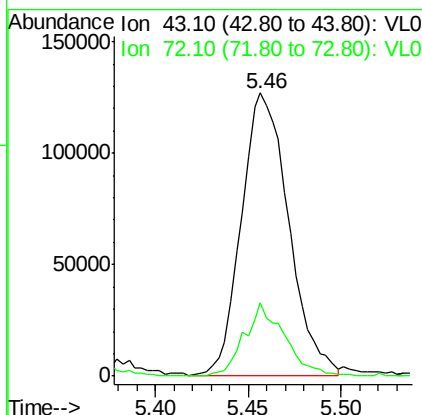
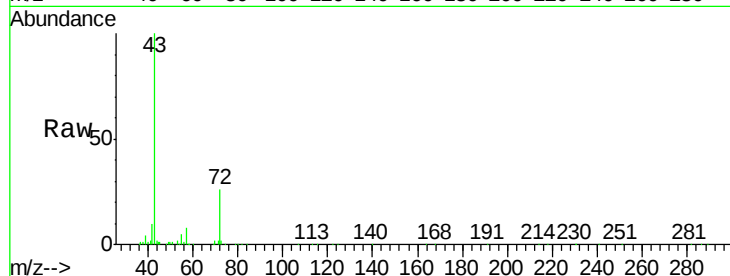
#34
2-Butanone
Concen: 1.319 ppbv
RT: 5.46 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VL031871.D
Acq: 12 Apr 2018 18:46

Instrument :
MSVOA_L
ClientSampleId :
SSDS-INF-040218

Tot Ion	Ratio	Lower	Upper
43	100		
72	22.4	18.6	27.8

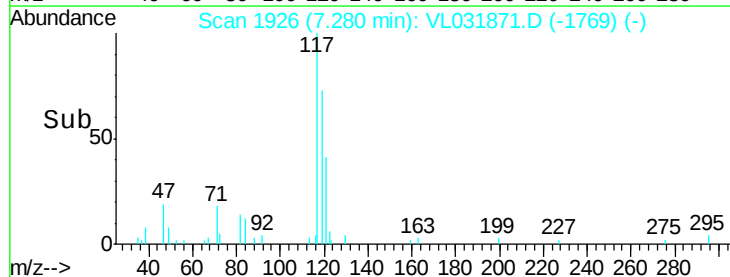
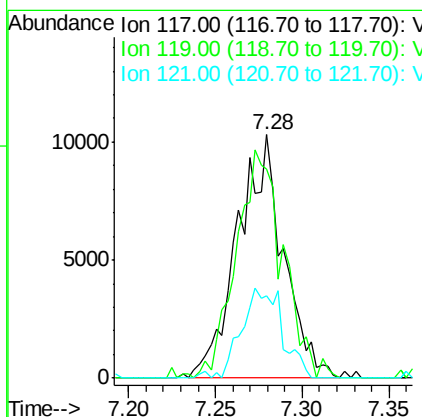
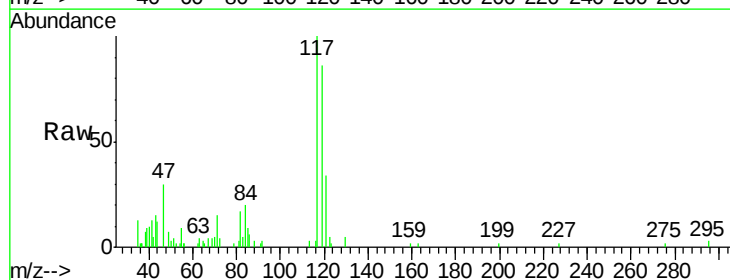
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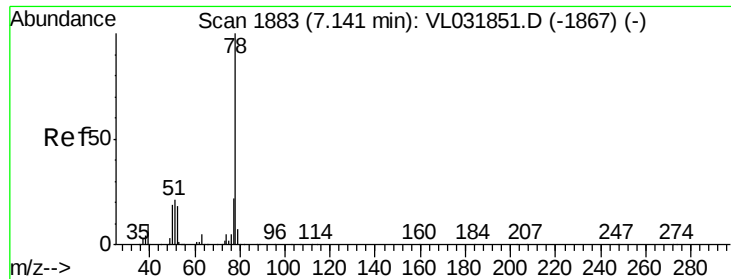
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#35
Carbon Tetrachloride
Concen: 0.089 ppbv m
RT: 7.28 min Scan# 1926
Delta R.T. 0.01 min
Lab File: VL031871.D
Acq: 12 Apr 2018 18:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	86.0	76.9	115.3
121	33.6	24.5	36.7





#36

Benzene

Concen: 0.146 ppbv

RT: 7.14 min Scan# 1884

Delta R.T. -0.00 min

Lab File: VL031871.D

Acq: 12 Apr 2018 18:46

Instrument :

MSVOA_L

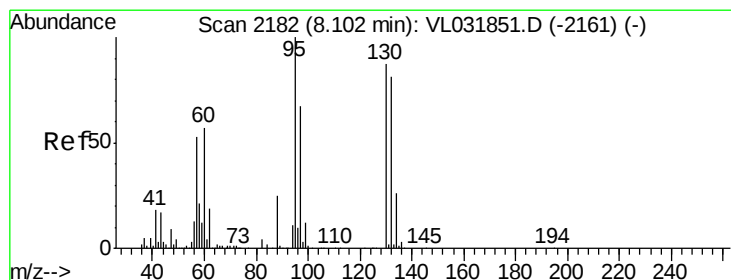
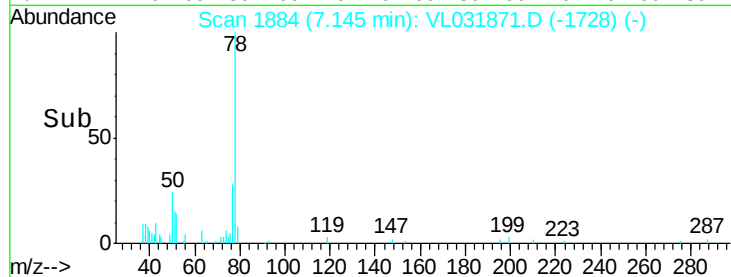
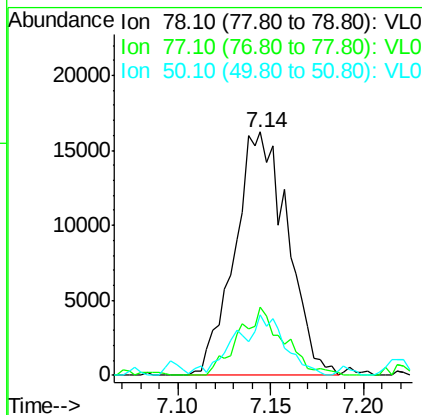
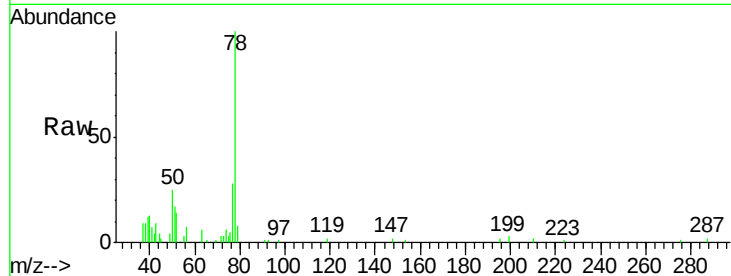
ClientSampleId :

SSDS-INF-040218

Tot Ion:	78	Resp:	32125
Ion	Ratio	Lower	Upper
78	100		
77	27.9	19.2	28.8
50	23.3	16.7	25.1

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#38

Trichloroethene

Concen: 0.556 ppbv

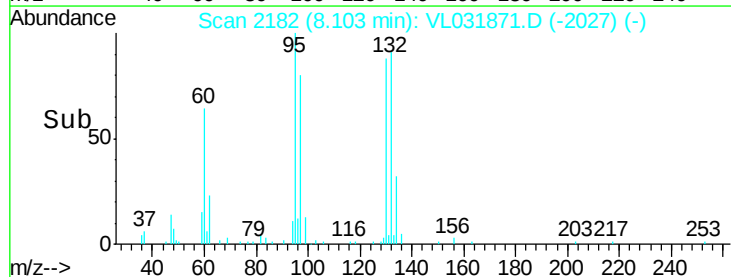
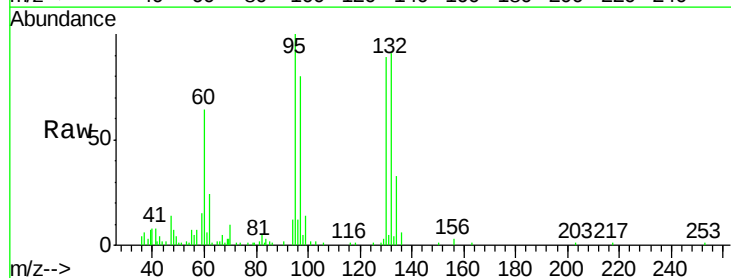
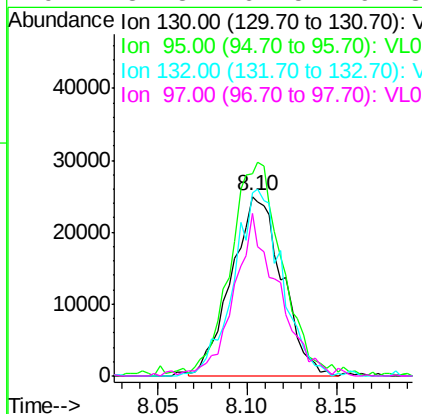
RT: 8.10 min Scan# 2182

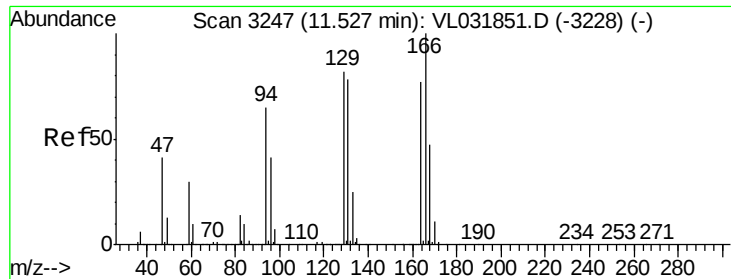
Delta R.T. -0.00 min

Lab File: VL031871.D

Acq: 12 Apr 2018 18:46

Tgt Ion:	130	Resp:	49619
Ion	Ratio	Lower	Upper
130	100		
95	111.3	96.6	144.8
132	100.7	79.1	118.7
97	87.8	61.5	92.3





#52

Tetrachloroethene

Concen: 0.311 ppbv m

RT: 11.52 min Scan# 3245

Delta R.T. -0.00 min

Lab File: VL031871.D

Acq: 12 Apr 2018 18:46

Instrument :

MSVOA_L

ClientSampleId :

SSDS-INF-040218

Tot Ion:164 Resp: 26644

Ion Ratio Lower Upper

164 100

166 105.1 98.2 147.4

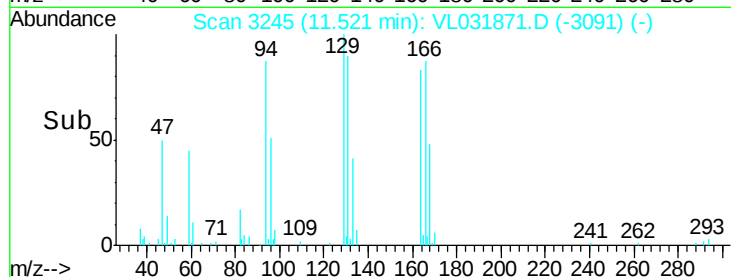
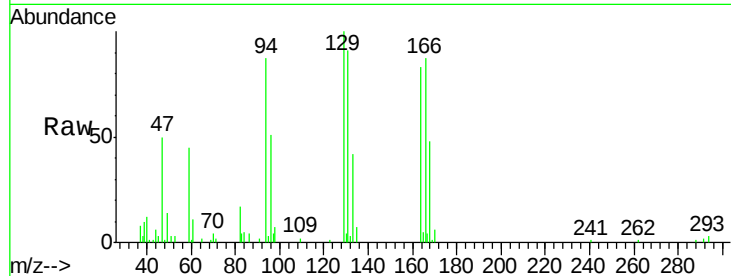
129 121.2 86.5 129.7

131 110.3 82.2 123.2

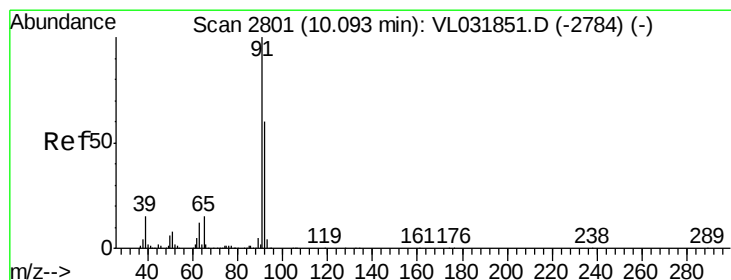
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Time-->



#53

Toluene

Concen: 22.353 ppbv

RT: 10.10 min Scan# 2802

Delta R.T. 0.00 min

Lab File: VL031871.D

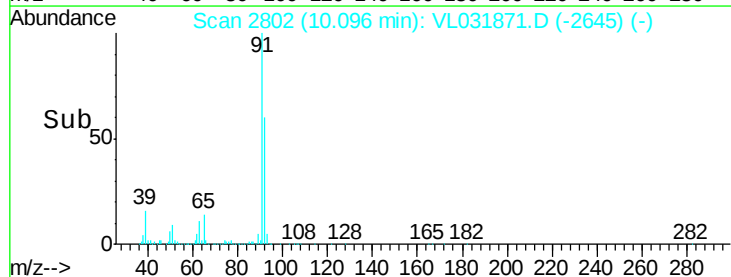
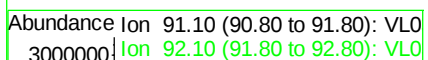
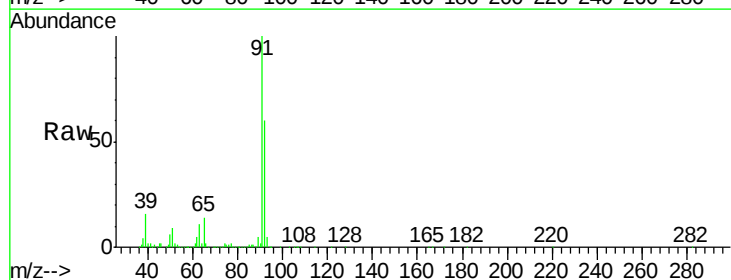
Acq: 12 Apr 2018 18:46

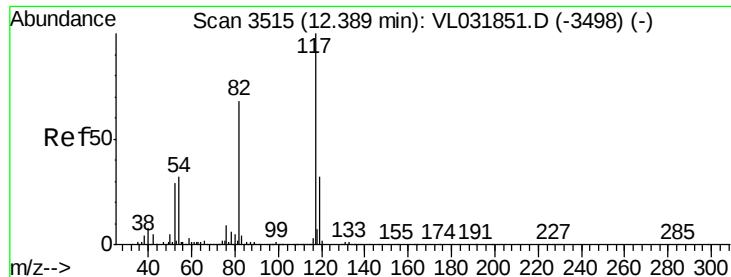
Tgt Ion: 91 Resp: 5478719

Ion Ratio Lower Upper

91 100

92 60.4 47.4 71.2





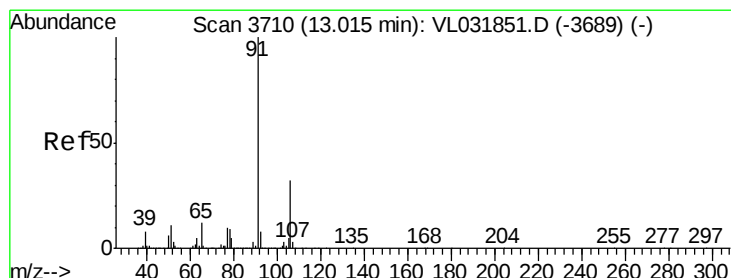
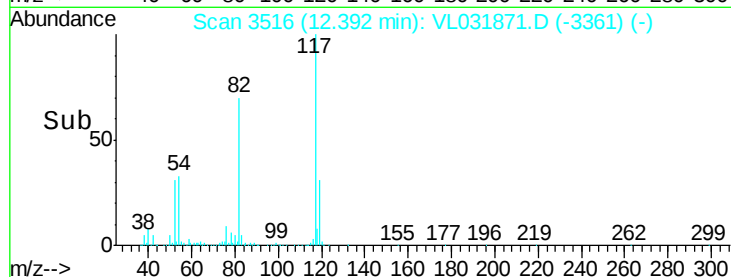
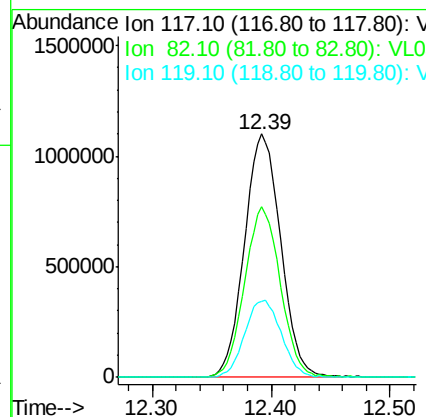
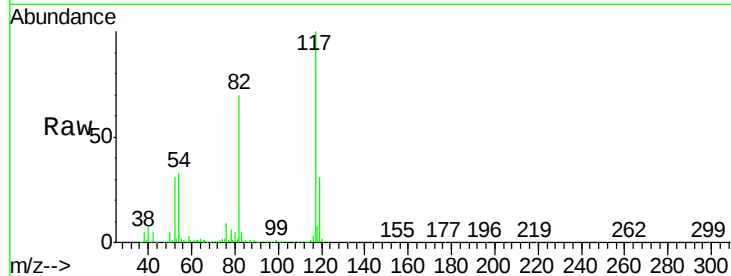
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.39 min Scan# 3516
Delta R.T. -0.00 min
Lab File: VL031871.D
Acq: 12 Apr 2018 18:46

Instrument :
MSVOA_L
ClientSampleId :
SSDS-INF-040218

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.6	54.6	81.8
119	32.4	26.0	39.0

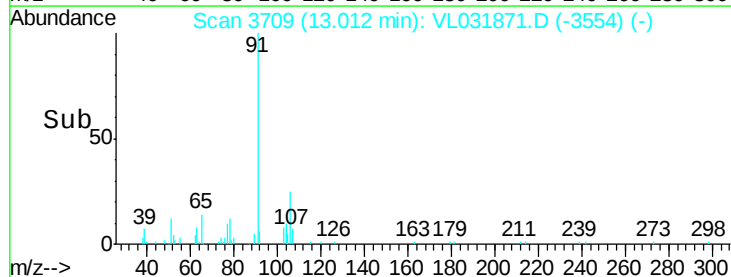
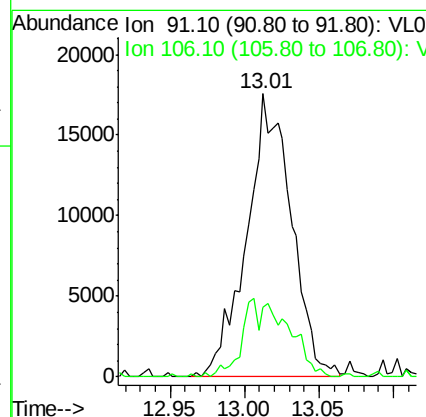
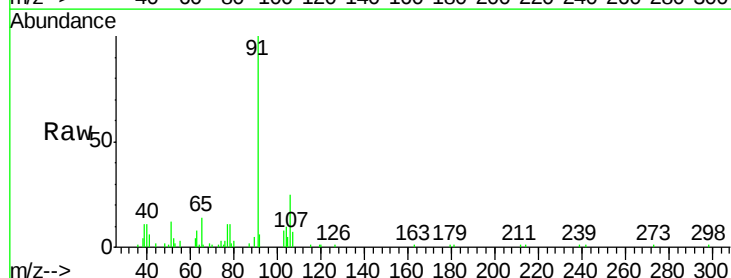
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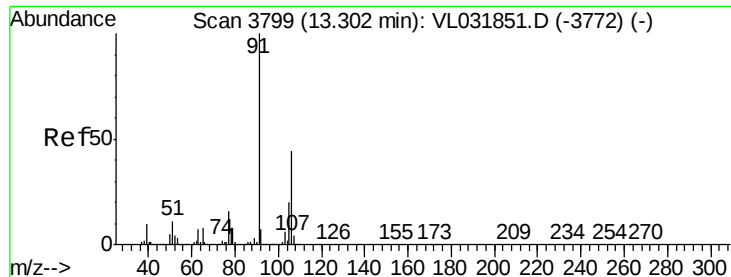
MMDadoda
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#58
Ethyl Benzene
Concen: 0.113 ppbv m
RT: 13.01 min Scan# 3709
Delta R.T. -0.00 min
Lab File: VL031871.D
Acq: 12 Apr 2018 18:46

Tgt Ion	Ratio	Lower	Upper
91	100		
106	24.7	23.8	35.6





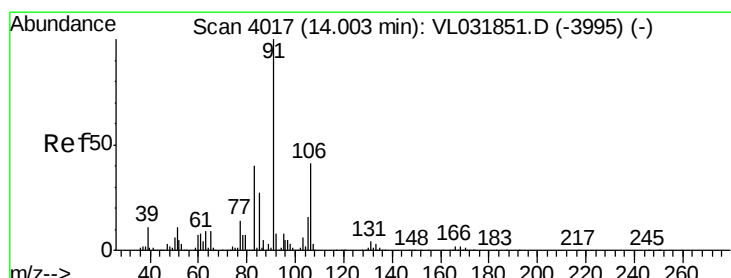
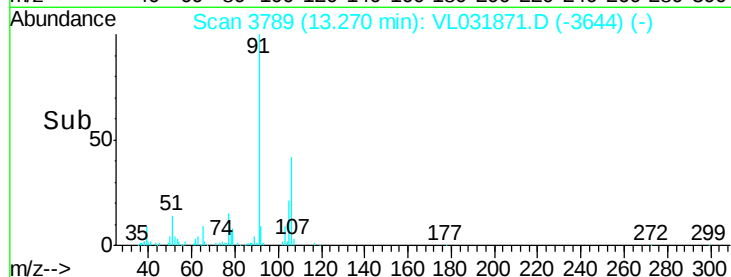
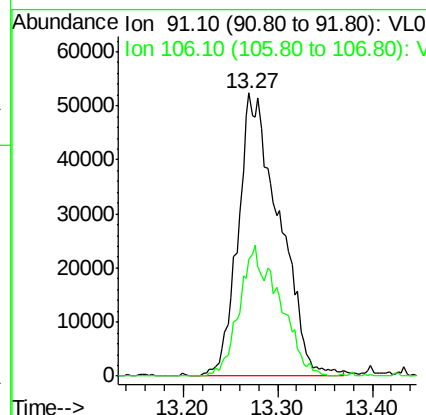
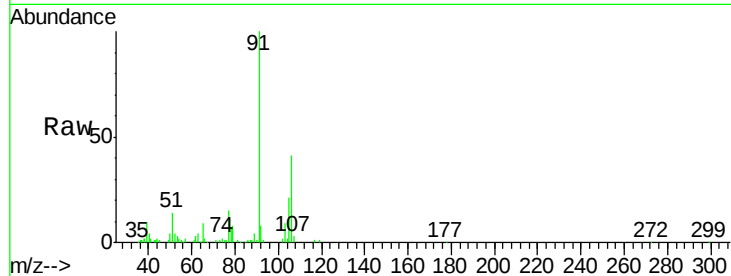
#59
m/p-Xylene
Concen: 0.565 ppbv m
RT: 13.27 min Scan# 3799
Delta R.T. -0.03 min
Lab File: VL031871.D
Acq: 12 Apr 2018 18:46

Instrument :
MSVOA_L
ClientSampleId :
SSDS-INF-040218

Tot Ion	Ratio	Lower	Upper
91	100		
106	45.1	35.5	53.3

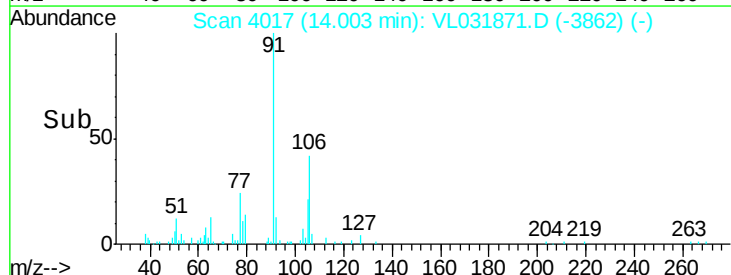
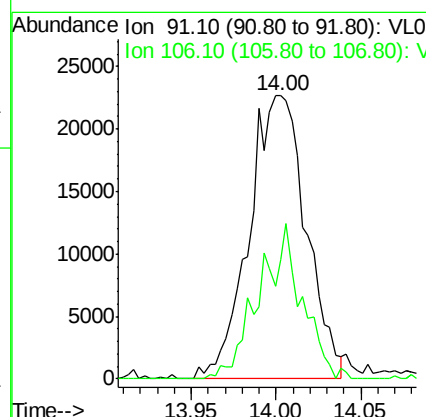
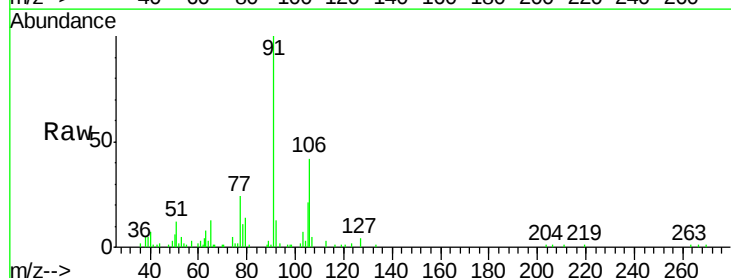
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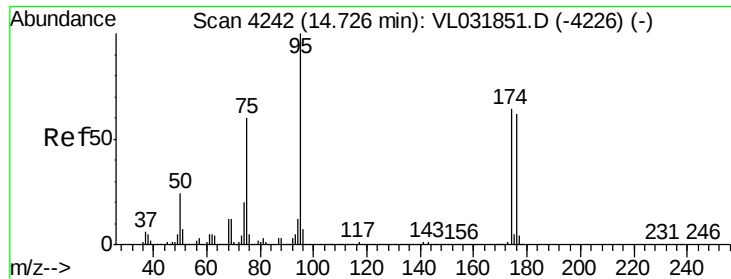
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#60
o-Xylene
Concen: 0.189 ppbv m
RT: 14.00 min Scan# 4017
Delta R.T. -0.00 min
Lab File: VL031871.D
Acq: 12 Apr 2018 18:46

Tgt Ion	Ratio	Lower	Upper
91	100		
106	41.2	21.3	63.9





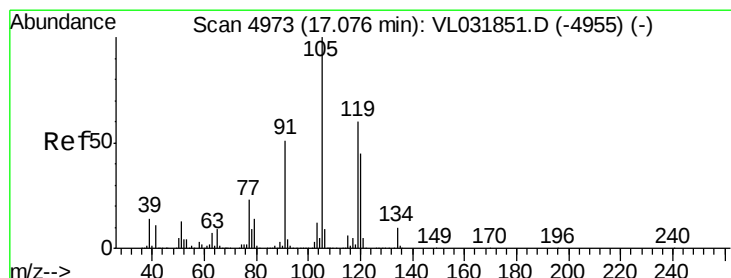
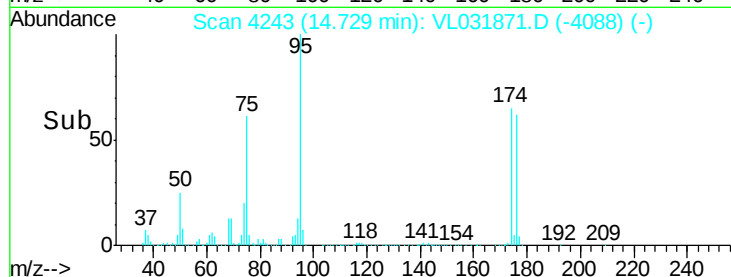
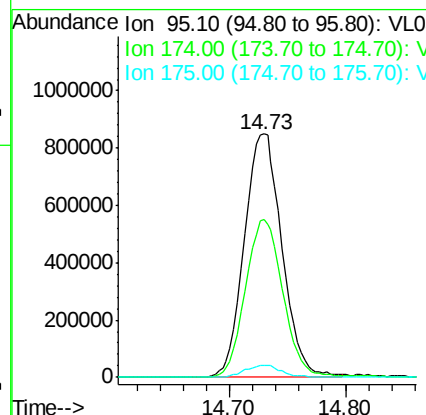
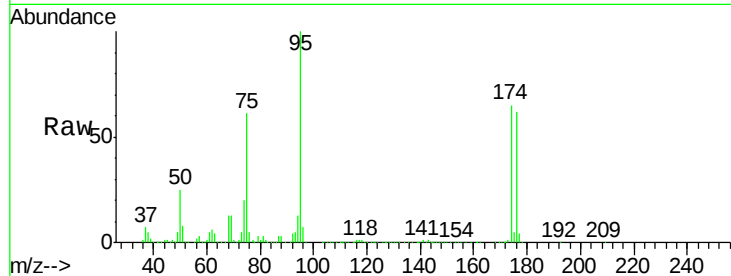
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.283 ppbv
 RT: 14.73 min Scan# 4243
 Delta R.T. -0.00 min
 Lab File: VL031871.D
 Acq: 12 Apr 2018 18:46

Instrument :
 MSVOA_L
 ClientSampleId :
 SSDS-INF-040218

Tot Ion: 95 Resp: 1918935
 Ion Ratio Lower Upper
 95 100
 174 65.5 52.3 78.5
 175 4.7 3.9 5.9

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.140 ppbv m
 RT: 17.08 min Scan# 4974
 Delta R.T. 0.00 min
 Lab File: VL031871.D
 Acq: 12 Apr 2018 18:46

Tgt Ion: 105 Resp: 40837
 Ion Ratio Lower Upper
 105 100
 120 38.8 37.0 55.4
 91 18.5 43.0 64.4#
 77 28.6 18.7 28.1#

