

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062318\
 Data File : VD058344.D
 Acq On : 23 Jun 2018 16:46
 Operator : VA/AP
 Sample : J3664-19
 Misc : 5.33g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 DUP-0485-180619

Manual Integrations
 APPROVED

apatel
 6/25/2018 2:27:57 PM

Quant Time: Jun 25 08:06:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	652926	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.71	114	917929	50.00	ug/l	0.02
63) Chlorobenzene-d5	10.70	117	665929	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.91	152	247908	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	263240	39.92	ug/l	0.02
Spiked Amount	50.000		Recovery	=	79.84%	
35) Dibromofluoromethane	5.57	113	275561	36.88	ug/l	0.02
Spiked Amount	50.000		Recovery	=	73.76%	
50) Toluene-d8	8.72	98	596201	32.99	ug/l	0.01
Spiked Amount	50.000		Recovery	=	65.98%	
62) 4-Bromofluorobenzene	11.94	95	192625m	26.09	ug/l	0.01
Spiked Amount	50.000		Recovery	=	52.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	2.63	43	133286	147.78	ug/l #	83
17) Carbon Disulfide	2.78	76	11778	1.54	ug/l #	90
20) Methylene Chloride	3.09	84	16665	2.56	ug/l	96
25) 2-Butanone	4.85	43	72976	37.12	ug/l	95
27) cis-1,2-Dichloroethene	4.83	96	15281	2.49	ug/l	88
39) Methylcyclohexane	7.29	83	307602	34.78	ug/l	96
40) Benzene	6.03	78	49615	2.29	ug/l	92
64) Tetrachloroethene	9.53	164	5735	1.02	ug/l #	79
65) Chlorobenzene	10.74	112	1904002	152.85	ug/l	98
67) Ethyl Benzene	10.87	91	30628	1.39	ug/l	97
69) o-Xylene	11.42	106	20701	2.96	ug/l	70
73) Isopropylbenzene	11.78	105	137505	9.27	ug/l	100
78) n-propylbenzene	12.17	91	101654	5.31	ug/l	97
83) tert-Butylbenzene	12.58	119	300316	22.58	ug/l	87
85) sec-Butylbenzene	12.77	105	2728286	175.04	ug/l	95
88) 1,4-Dichlorobenzene	12.93	146	224074	29.73	ug/l #	73
89) n-Butylbenzene	13.21	91	2262398	170.43	ug/l	94

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

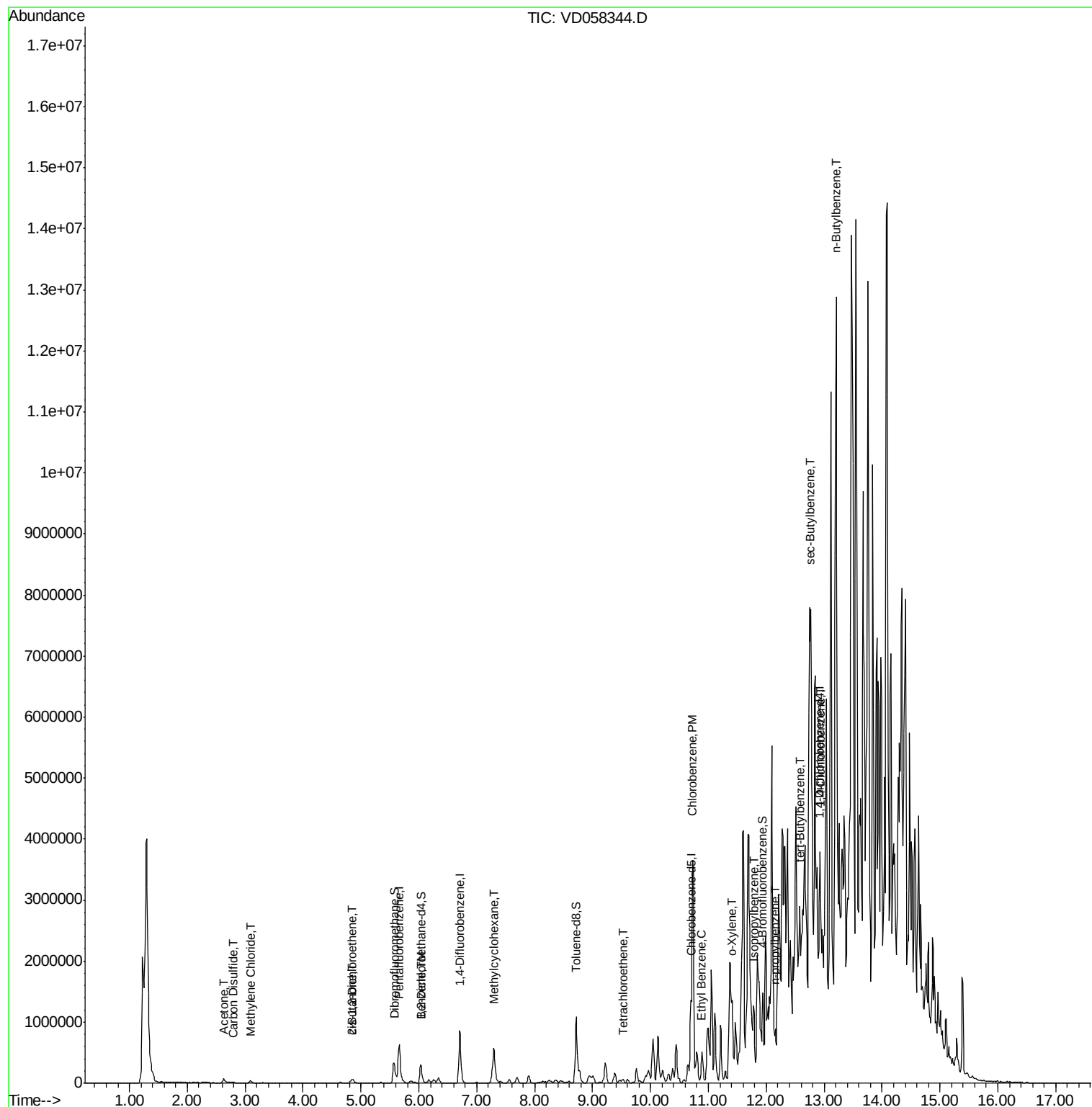
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062318\
Data File : VD058344.D
Acq On : 23 Jun 2018 16:46
Operator : VA/AP
Sample : J3664-19
Misc : 5.33g/5ml/MSVOA D/SOIL
ALS Vial : 7 Sample Multiplier: 1

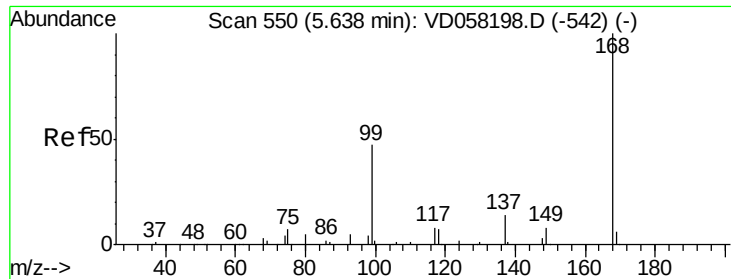
Instrument :
MSVOA_D
ClientSampleId :
DUP-0485-180619

Manual Integrations
APPROVED

apatel
6/25/2018 2:27:57 PM

Quant Time: Jun 25 08:06:54 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 552

Delta R.T. 0.02 min

Lab File: VD058344.D

Acq: 23 Jun 2018 16:46

Instrument :

MSVOA_D

ClientSampleId :

DUP-0485-180619

Tot Ion:168 Resp: 652926

Ion Ratio Lower Upper

168 100

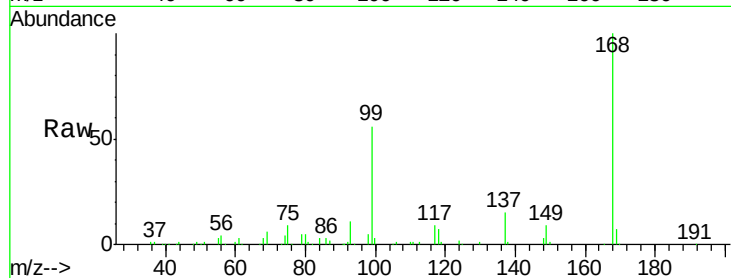
99 56.0 41.1 61.7

Manual Integrations

APPROVED

apatel

6/25/2018 2:27:57 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.66

250000

200000

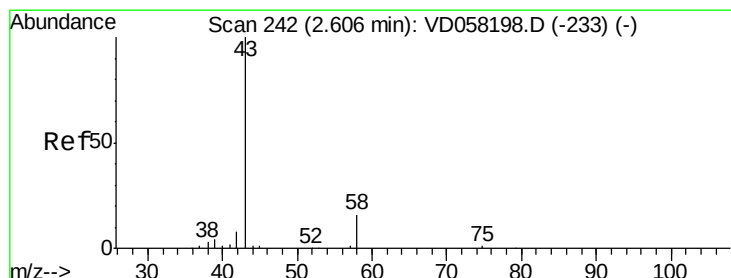
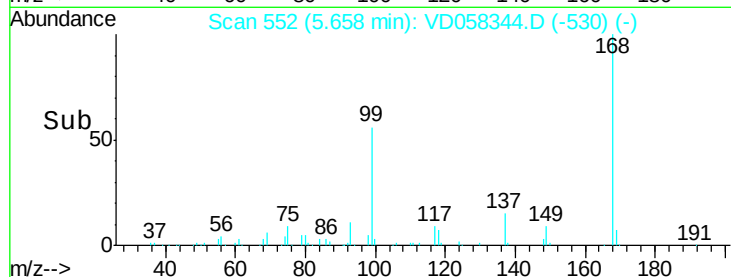
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 147.78 ug/l

RT: 2.63 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD058344.D

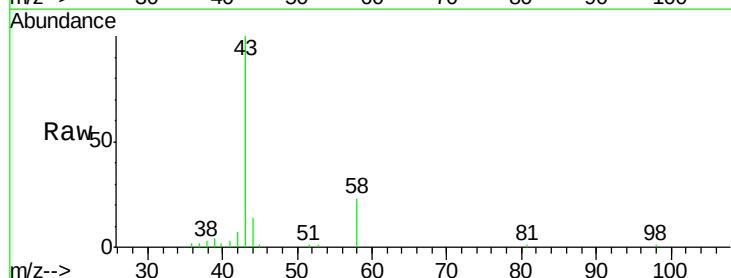
Acq: 23 Jun 2018 16:46

Tgt Ion: 43 Resp: 133286

Ion Ratio Lower Upper

43 100

58 22.9 12.7 19.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

2.63

50000

40000

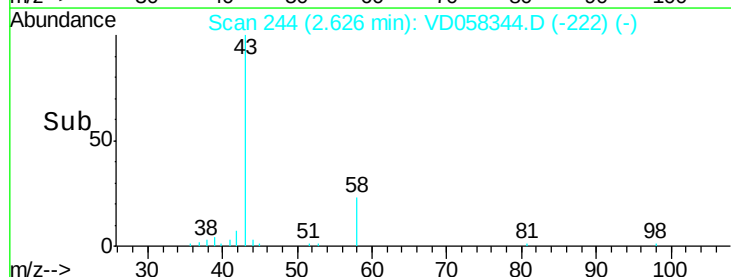
30000

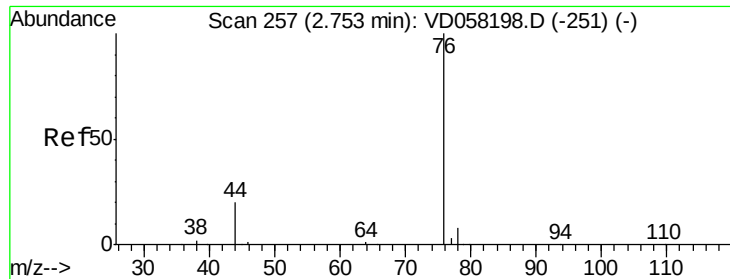
20000

10000

0

Time-->





#17

Carbon Disulfide

Concen: 1.54 ug/l

RT: 2.78 min Scan# 260

Delta R.T. 0.03 min

Lab File: VD058344.D

Acq: 23 Jun 2018 16:46

Instrument :

MSVOA_D

ClientSampleId :

DUP-0485-180619

Tot Ion: 76 Resp: 11778

Ion Ratio Lower Upper

76 100

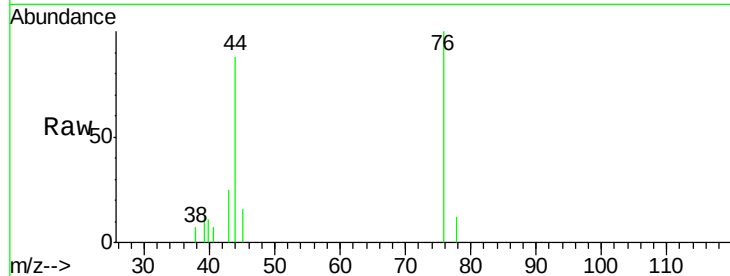
78 12.1 6.8 10.2#

Manual Integrations

APPROVED

apatel

6/25/2018 2:27:57 PM



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

2.78

6000

5000

4000

3000

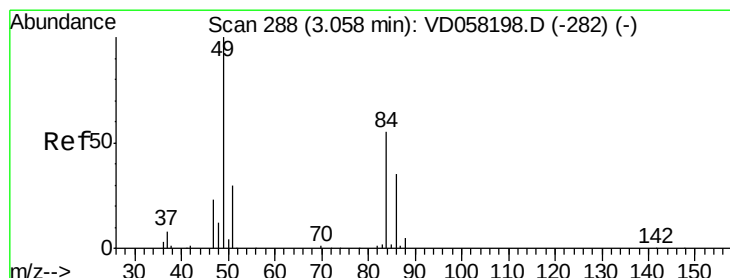
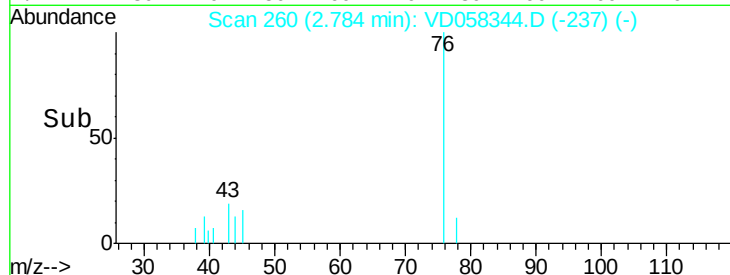
2000

1000

0

Time-->

2.70 2.75 2.80 2.85



#20

Methylene Chloride

Concen: 2.56 ug/l

RT: 3.09 min Scan# 291

Delta R.T. 0.03 min

Lab File: VD058344.D

Acq: 23 Jun 2018 16:46

Tgt Ion: 84 Resp: 16665

Ion Ratio Lower Upper

84 100

49 184.2 145.0 217.6

51 60.9 42.9 64.3

86 59.0 50.1 75.1

Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

15000

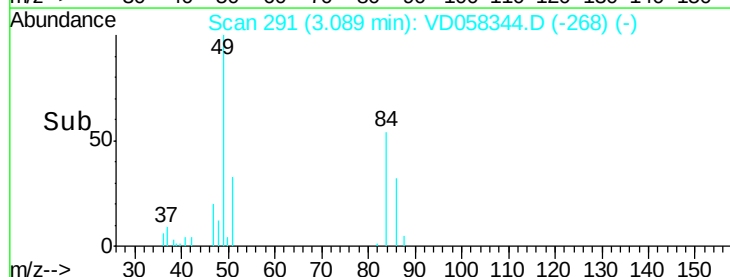
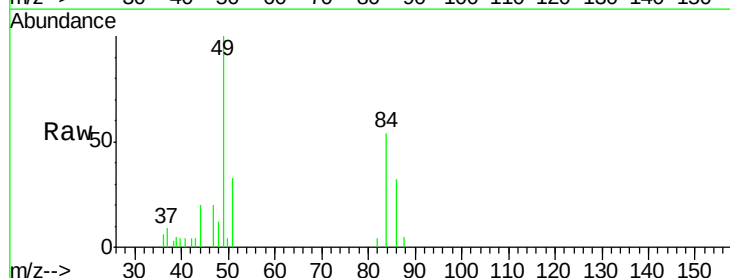
10000

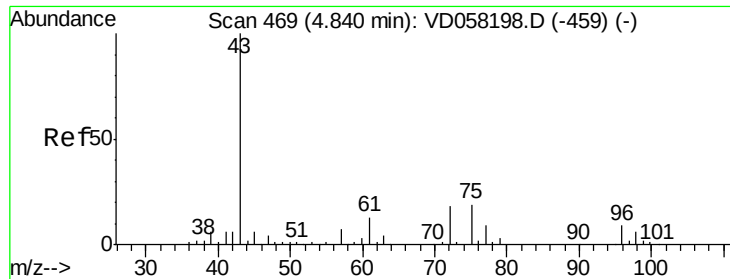
5000

0

Time-->

3.00 3.10 3.20





#25

2-Butanone

Concen: 37.12 ug/l

RT: 4.85 min Scan# 470

Delta R.T. 0.01 min

Lab File: VD058344.D

Acq: 23 Jun 2018 16:46

Instrument :

MSVOA_D

ClientSampleId :

DUP-0485-180619

Tot Ion: 43 Resp: 72976

Ion Ratio Lower Upper

43 100

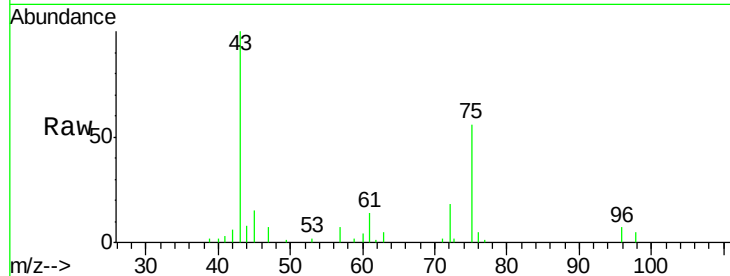
72 19.9 14.1 21.1

Manual Integrations

APPROVED

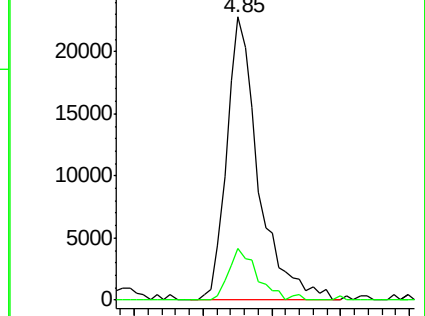
apatel

6/25/2018 2:27:57 PM

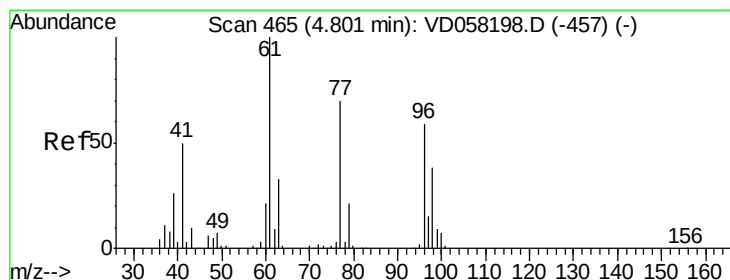
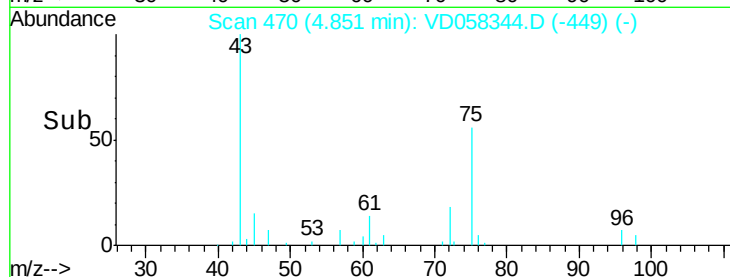


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



Time-->



#27

cis-1,2-Dichloroethene

Concen: 2.49 ug/l

RT: 4.83 min Scan# 468

Delta R.T. 0.03 min

Lab File: VD058344.D

Acq: 23 Jun 2018 16:46

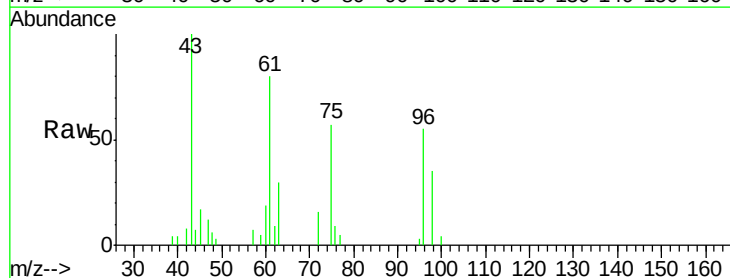
Tgt Ion: 96 Resp: 15281

Ion Ratio Lower Upper

96 100

61 147.2 0.0 338.6

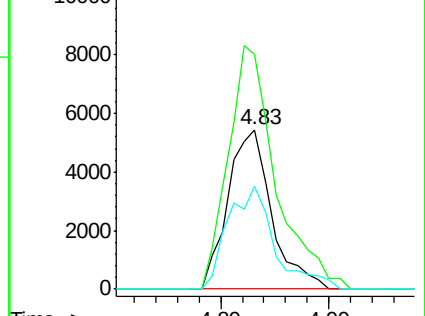
98 64.8 0.0 130.2



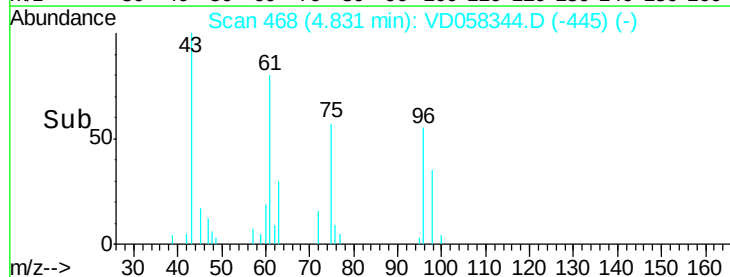
Abundance Ion 95.90 (95.60 to 96.60): VDC

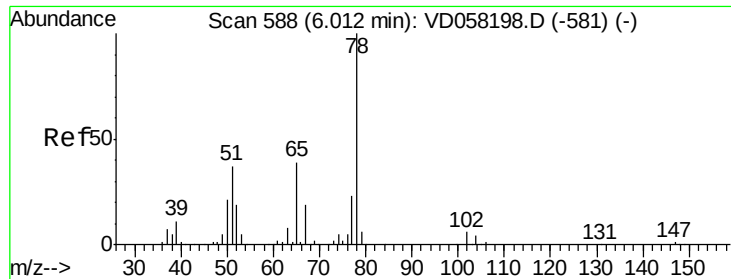
Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



Time-->





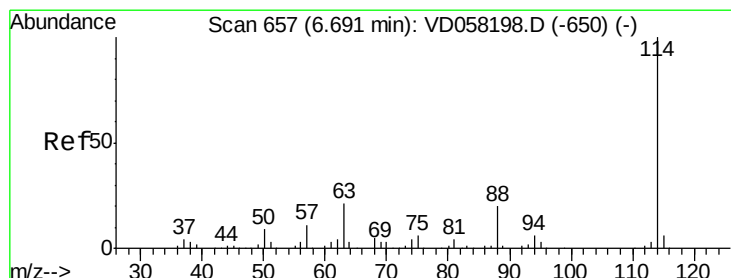
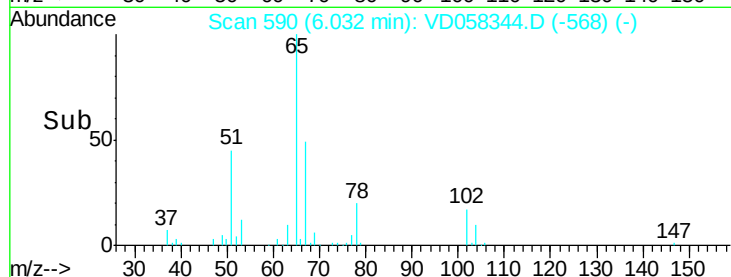
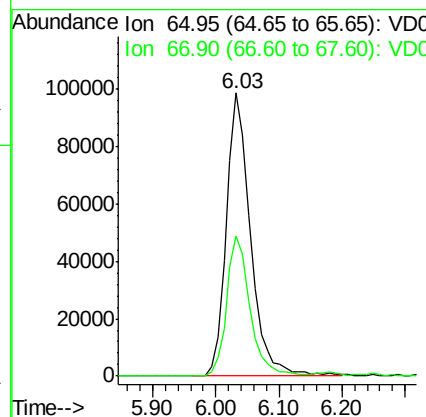
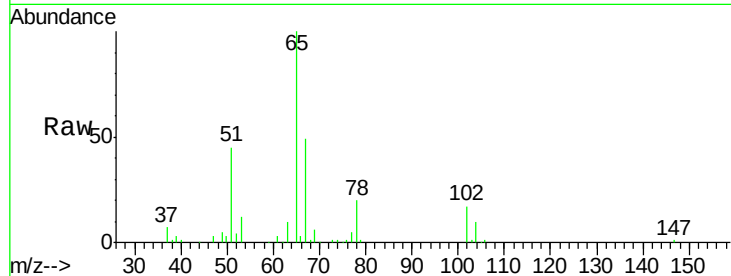
#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.03 min Scan# 590
 Delta R.T. 0.02 min
 Lab File: VD058344.D
 Acq: 23 Jun 2018 16:46

Instrument :
 MSVOA_D
 ClientSampleId :
 DUP-0485-180619

Tot Ion	Ratio	Resp	Lower	Upper
65	100	263240		
67	49.3	0.0	97.8	

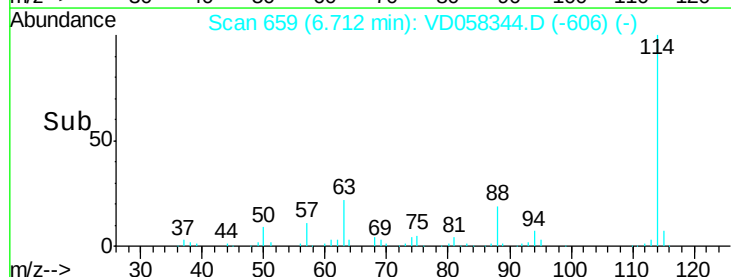
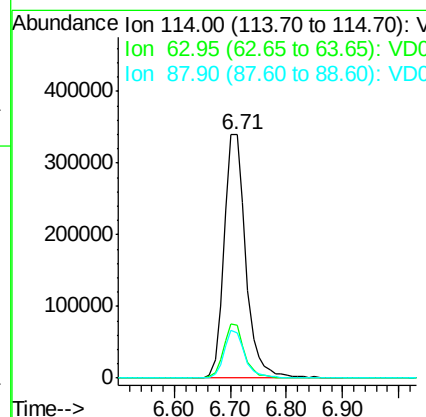
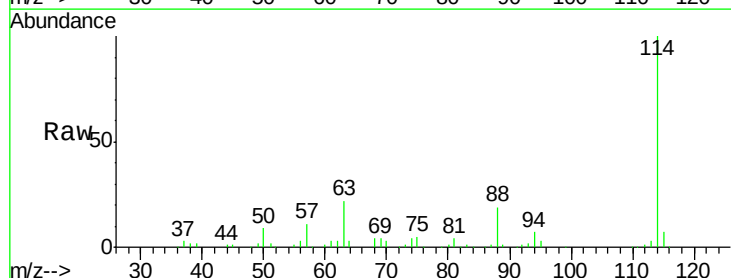
Manual Integrations
 APPROVED

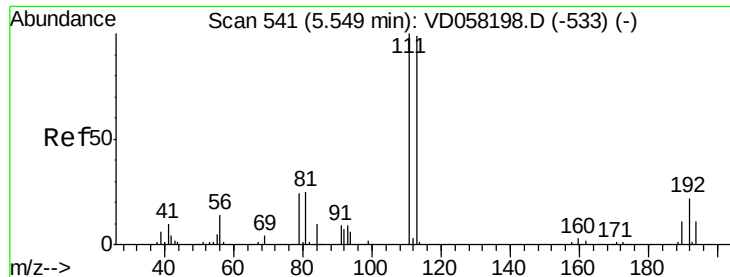
apatel
 6/25/2018 2:27:57 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.71 min Scan# 659
 Delta R.T. 0.02 min
 Lab File: VD058344.D
 Acq: 23 Jun 2018 16:46

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	917929		
63	21.8	0.0	42.6	
88	18.8	0.0	40.6	





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 5.57 min Scan# 543

Delta R.T. 0.02 min

Lab File: VD058344.D

Acq: 23 Jun 2018 16:46

Instrument :

MSVOA_D

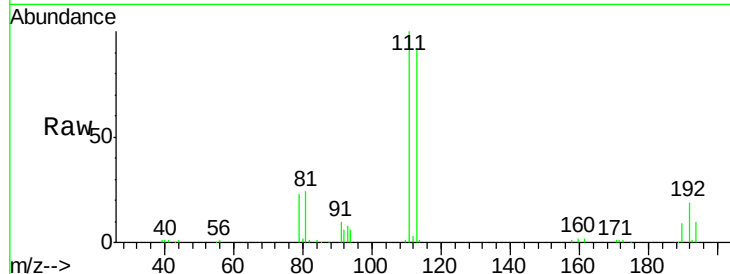
ClientSampleId :

DUP-0485-180619

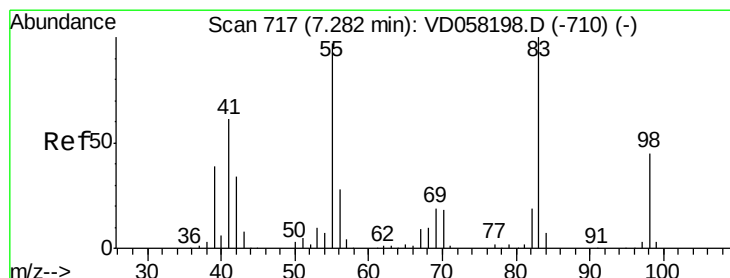
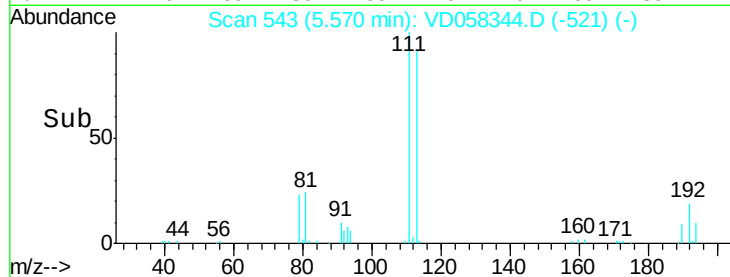
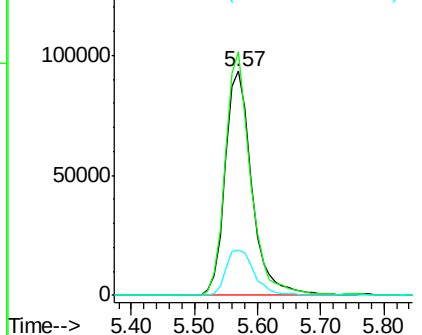
Tot Ion:	113	Resp:	275561
Ion Ratio	Lower	Upper	
113	100		
111	108.8	80.6	121.0
192	20.4	17.8	26.6

Manual Integrations
APPROVED

apatel
6/25/2018 2:27:57 PM



Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V



#39

Methylcyclohexane

Concen: 34.78 ug/l

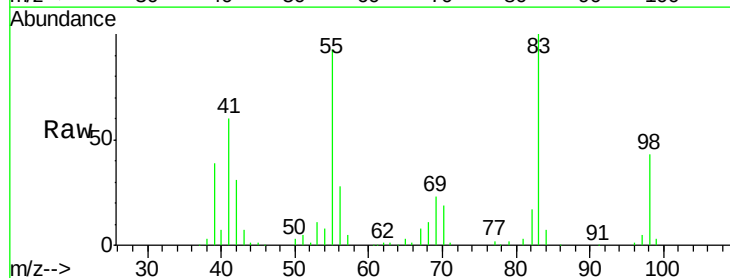
RT: 7.29 min Scan# 718

Delta R.T. 0.01 min

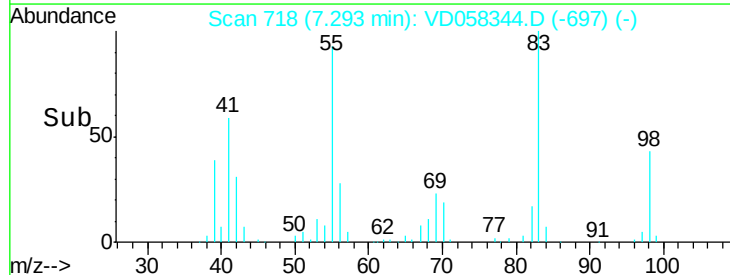
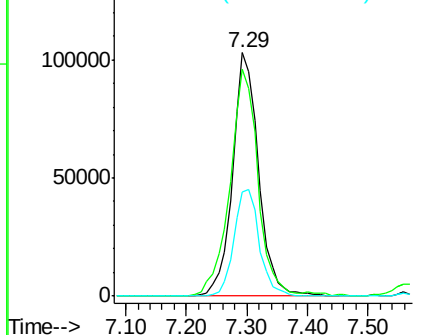
Lab File: VD058344.D

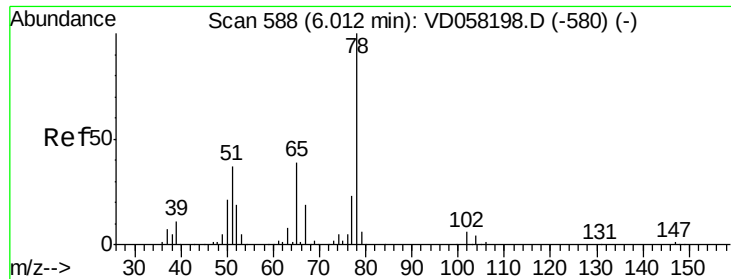
Acq: 23 Jun 2018 16:46

Tgt Ion:	83	Resp:	307602
Ion Ratio	Lower	Upper	
83	100		
55	93.0	77.4	116.2
98	42.9	35.9	53.9



Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC





#40

Benzene

Concen: 2.29 ug/l

RT: 6.03 min Scan# 590

Delta R.T. 0.02 min

Lab File: VD058344.D

Acq: 23 Jun 2018 16:46

Instrument :

MSVOA_D

ClientSampleId :

DUP-0485-180619

Tot Ion: 78 Resp: 49615

Ion Ratio Lower Upper

78 100

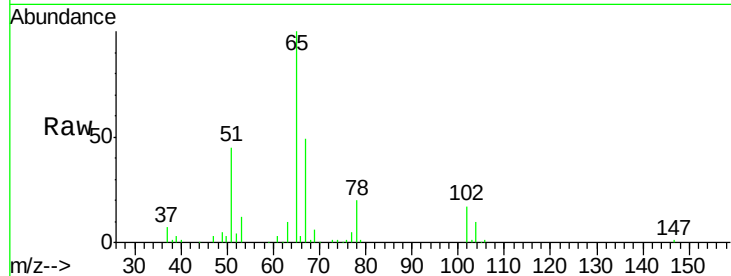
77 26.9 18.5 27.7

Manual Integrations

APPROVED

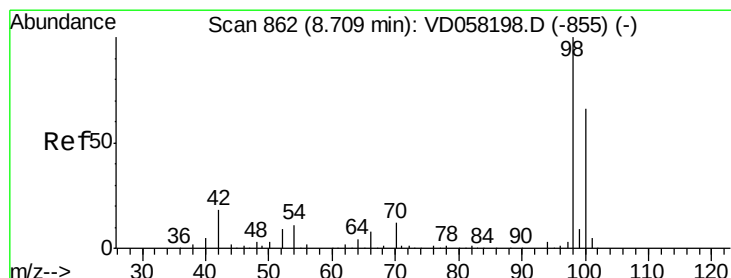
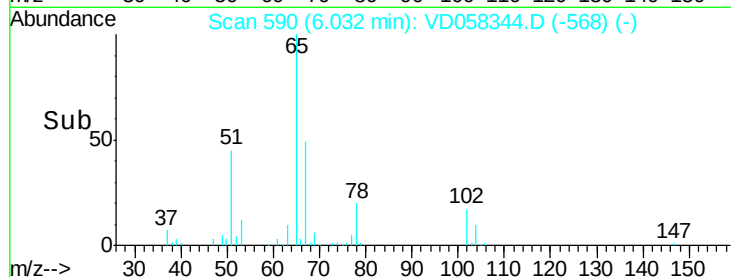
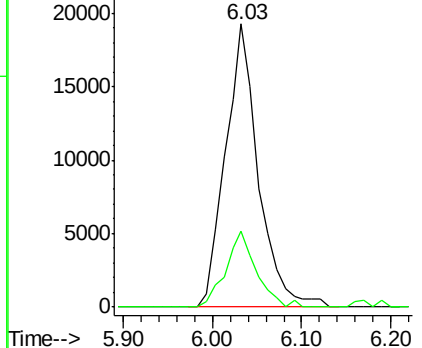
apatel

6/25/2018 2:27:57 PM



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.72 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD058344.D

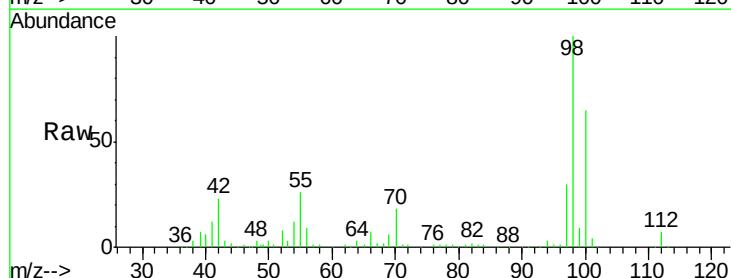
Acq: 23 Jun 2018 16:46

Tgt Ion: 98 Resp: 596201

Ion Ratio Lower Upper

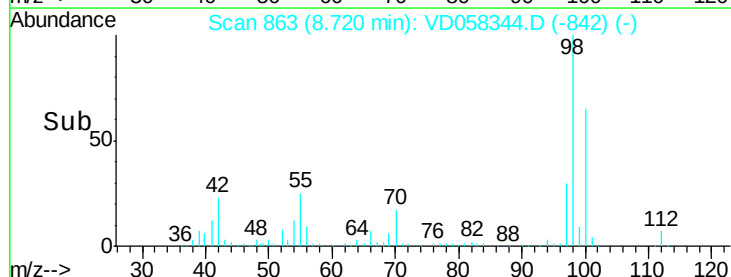
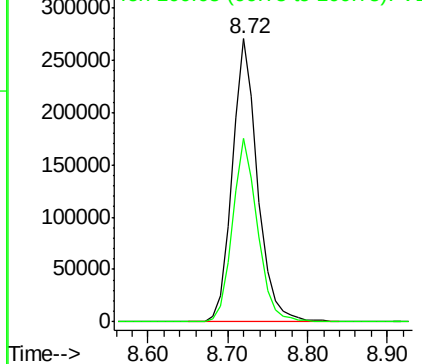
98 100

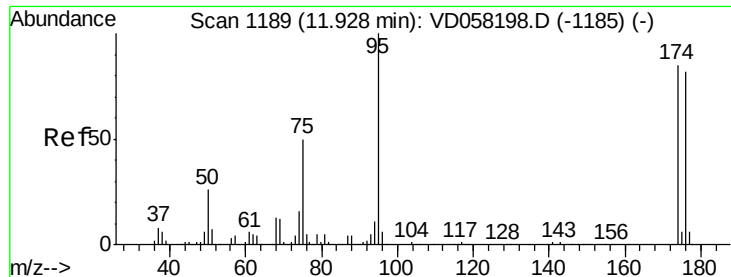
100 64.9 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





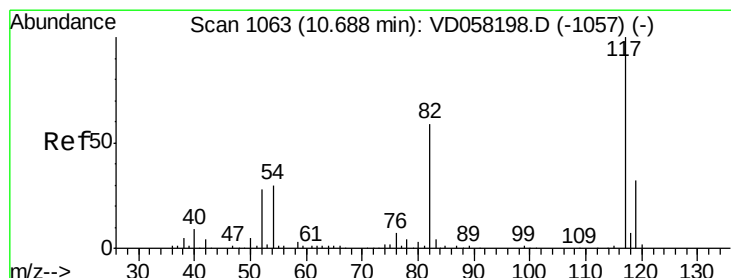
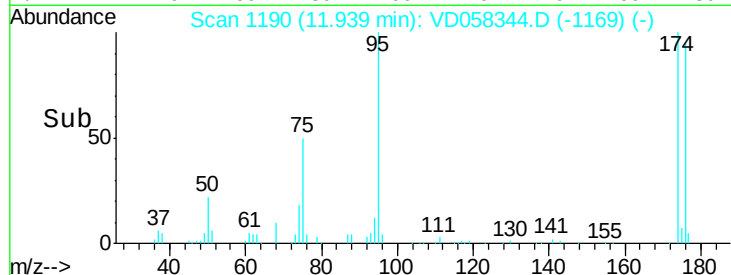
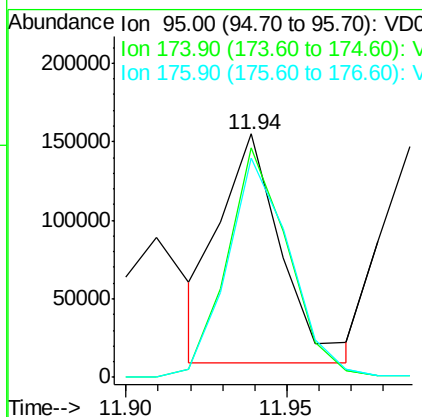
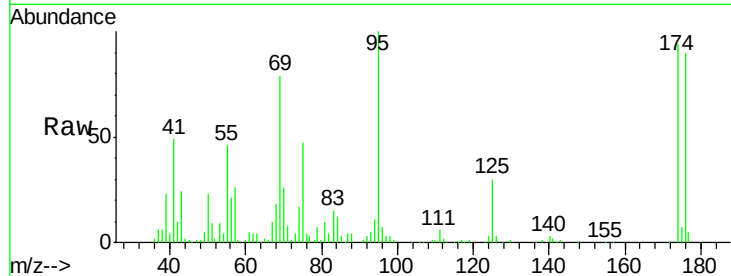
#62
4-Bromofluorobenzene
Concen: N.D. ug/l m
RT: 11.94 min Scan# 1190
Delta R.T. 0.01 min
Lab File: VD058344.D
Acq: 23 Jun 2018 16:46

Instrument :
MSVOA_D
ClientSampleId :
DUP-0485-180619

Tot Ion	Ratio	Resp	Lower	Upper
95	100	192625		
174	94.4	0.0	170.2	
176	89.8	0.0	164.6	

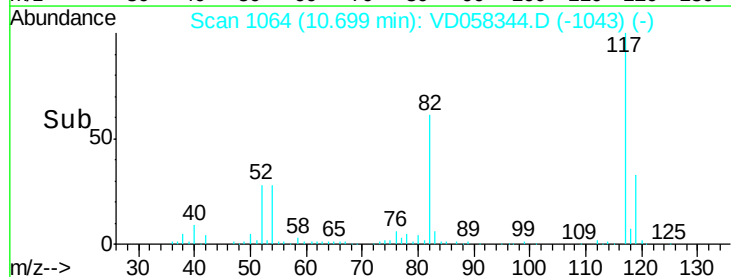
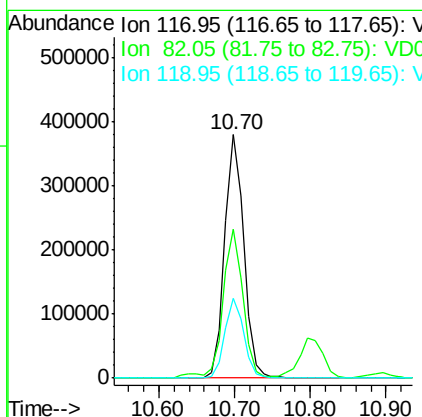
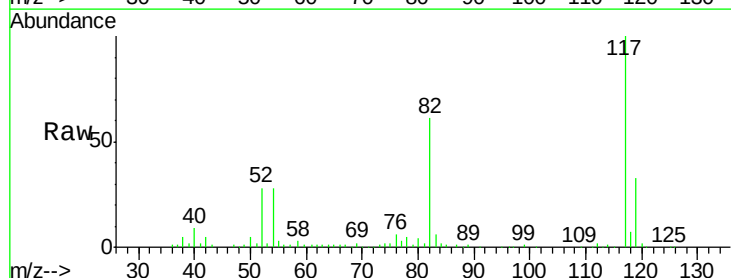
Manual Integrations
APPROVED

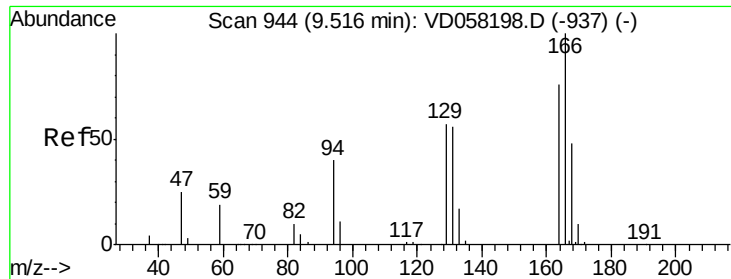
apatel
6/25/2018 2:27:57 PM



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058344.D
Acq: 23 Jun 2018 16:46

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	665929		
82	61.1	47.0	70.6	
119	32.7	25.3	37.9	





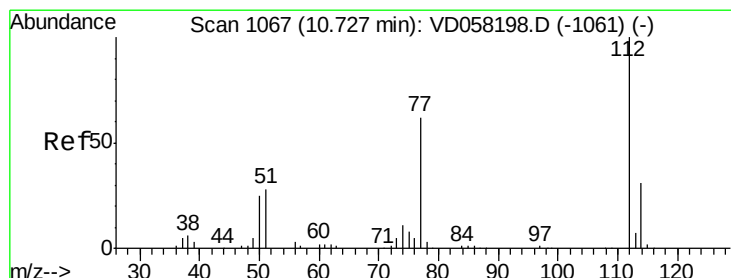
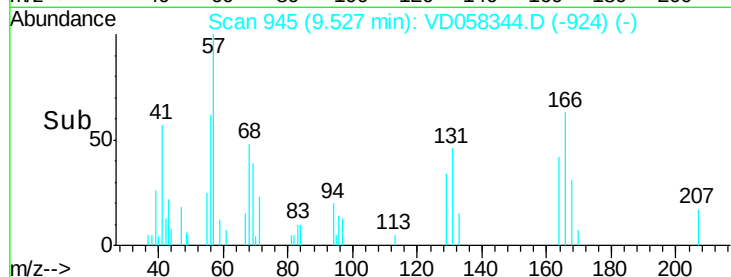
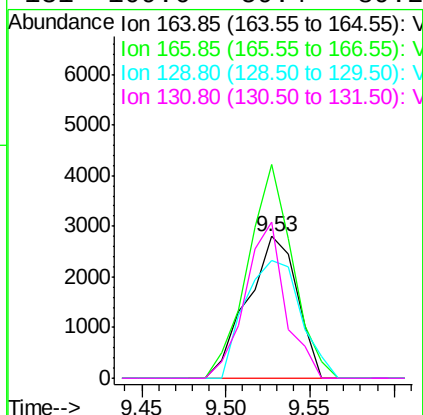
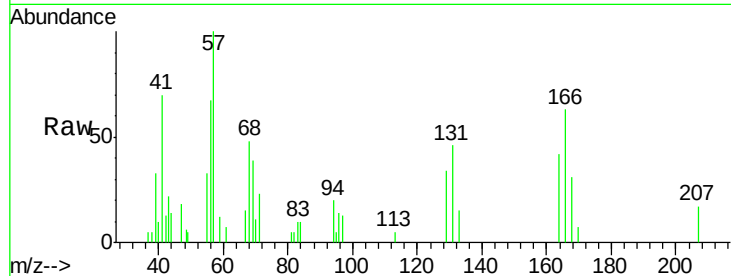
#64
Tetrachloroethene
Concen: 1.02 ug/l
RT: 9.53 min Scan# 945
Delta R.T. 0.01 min
Lab File: VD058344.D
Acq: 23 Jun 2018 16:46

Instrument :
MSVOA_D
ClientSampleId :
DUP-0485-180619

Tot Ion:164 Resp: 5735
Ion Ratio Lower Upper
164 100
166 150.4 105.4 158.0
129 82.6 59.6 89.4
131 109.6 59.4 89.2#

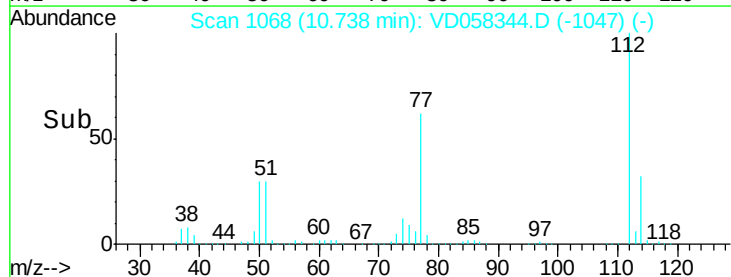
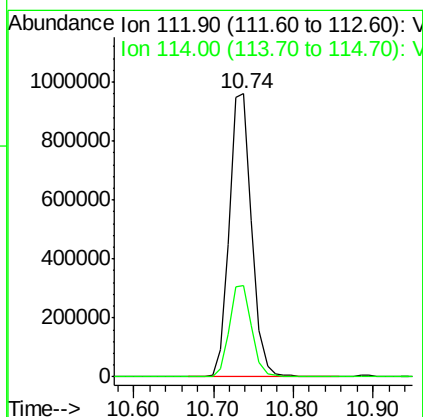
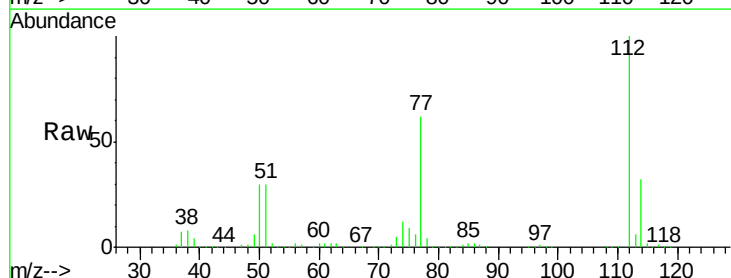
Manual Integrations
APPROVED

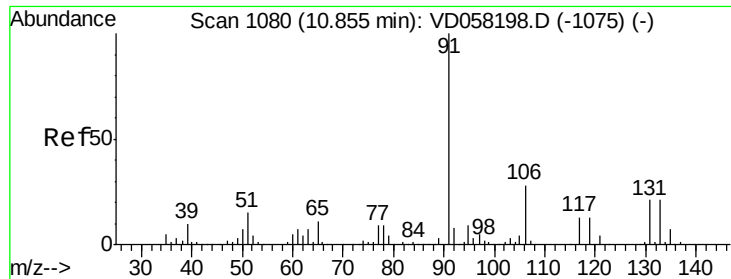
apatel
6/25/2018 2:27:57 PM



#65
Chlorobenzene
Concen: 152.85 ug/l
RT: 10.74 min Scan# 1068
Delta R.T. 0.01 min
Lab File: VD058344.D
Acq: 23 Jun 2018 16:46

Tgt Ion:112 Resp: 1904002
Ion Ratio Lower Upper
112 100
114 32.1 25.0 37.4





#67

Ethyl Benzene

Concen: 1.39 ug/l

RT: 10.87 min Scan# 1081

Delta R.T. 0.01 min

Lab File: VD058344.D

Acq: 23 Jun 2018 16:46

Instrument :

MSVOA_D

ClientSampleId :

DUP-0485-180619

Tot Ion: 91 Resp: 30628

Ion Ratio Lower Upper

91 100

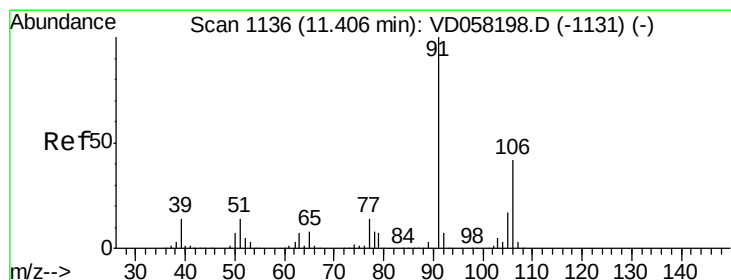
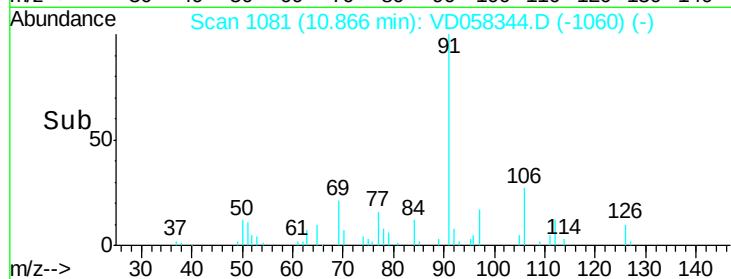
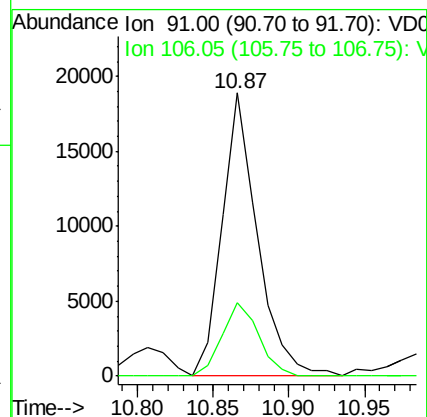
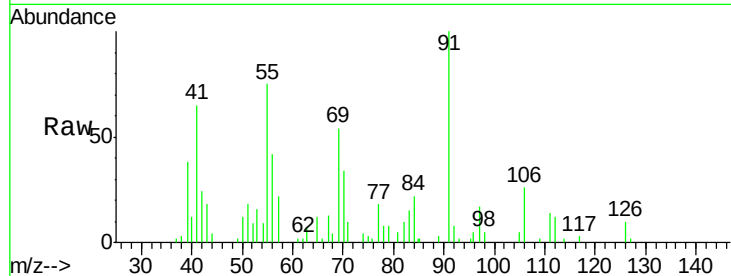
106 26.0 22.0 33.0

Manual Integrations

APPROVED

apatel

6/25/2018 2:27:57 PM



#69

o-Xylene

Concen: 2.96 ug/l

RT: 11.42 min Scan# 1137

Delta R.T. 0.01 min

Lab File: VD058344.D

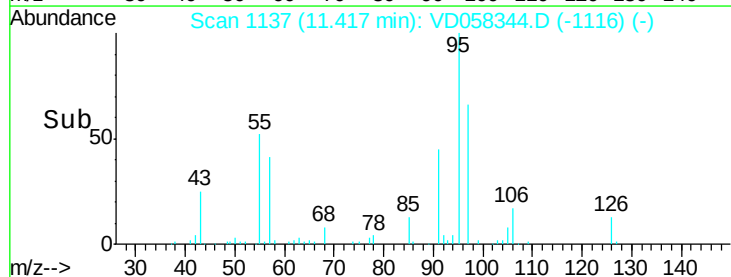
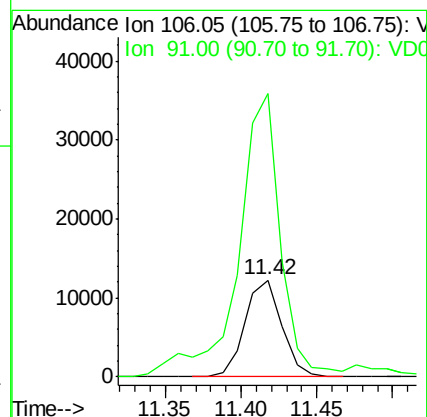
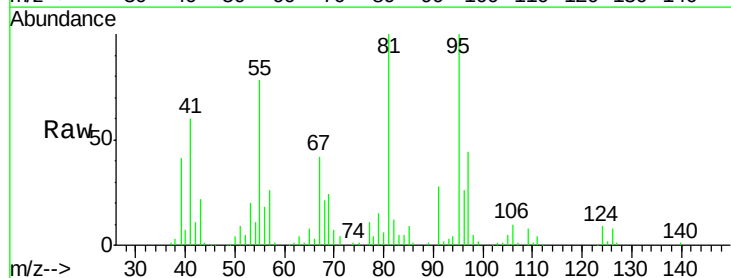
Acq: 23 Jun 2018 16:46

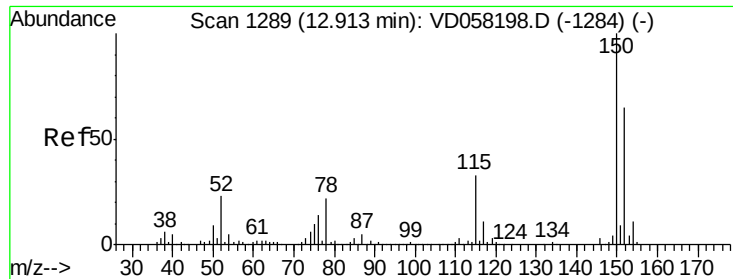
Tgt Ion: 106 Resp: 20701

Ion Ratio Lower Upper

106 100

91 292.1 120.2 360.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.91 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VD058344.D

Acq: 23 Jun 2018 16:46

Instrument :

MSVOA_D

ClientSampleId :

DUP-0485-180619

Tot Ion:152 Resp: 247908

Ion Ratio Lower Upper

152 100

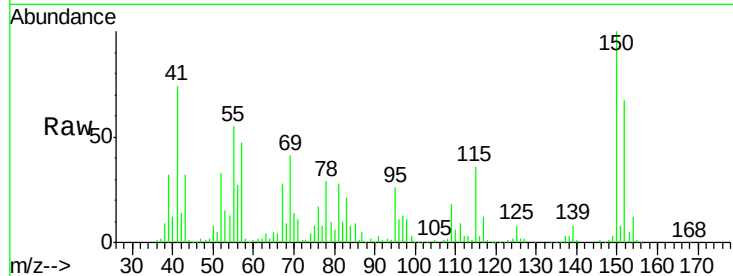
115 53.3 25.1 75.3

150 148.4 0.0 308.8

Manual Integrations
APPROVED

apatel

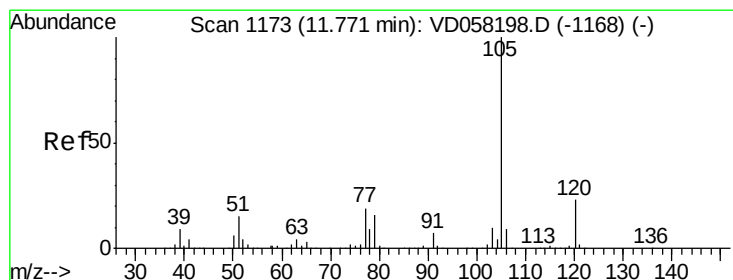
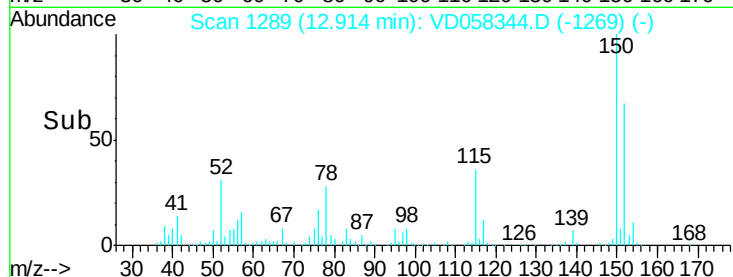
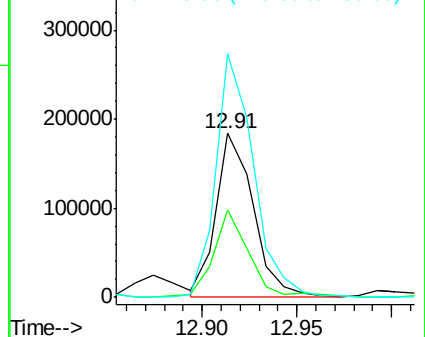
6/25/2018 2:27:57 PM



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 9.27 ug/l

RT: 11.78 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VD058344.D

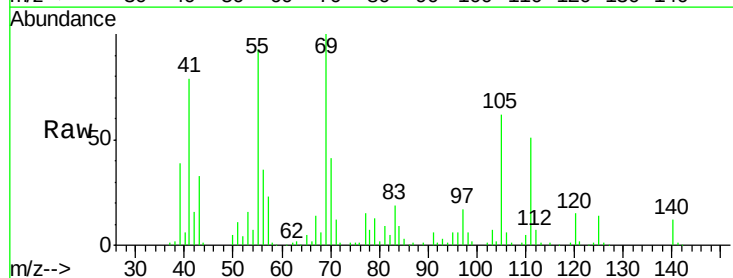
Acq: 23 Jun 2018 16:46

Tgt Ion:105 Resp: 137505

Ion Ratio Lower Upper

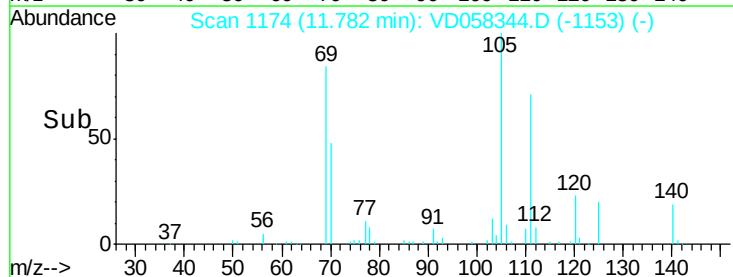
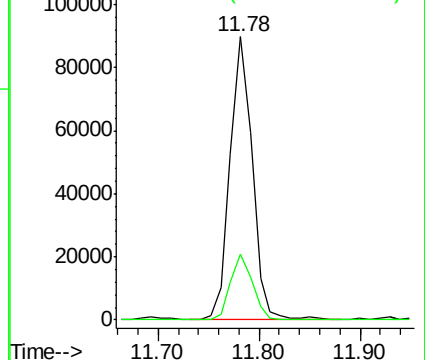
105 100

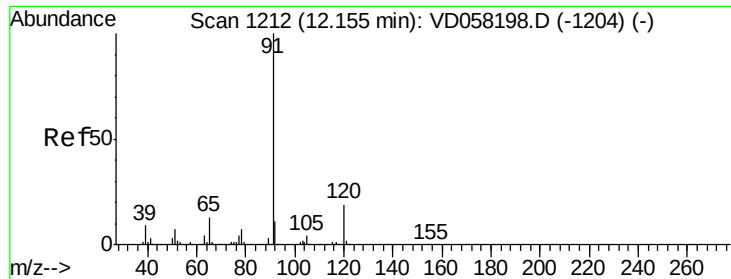
120 23.4 11.6 34.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#78

n-propylbenzene

Concen: 5.31 ug/l

RT: 12.17 min Scan# 1213

Delta R.T. 0.01 min

Lab File: VD058344.D

Acq: 23 Jun 2018 16:46

Instrument :

MSVOA_D

ClientSampleId :

DUP-0485-180619

Tot Ion: 91 Resp: 101654

Ion Ratio Lower Upper

91 100

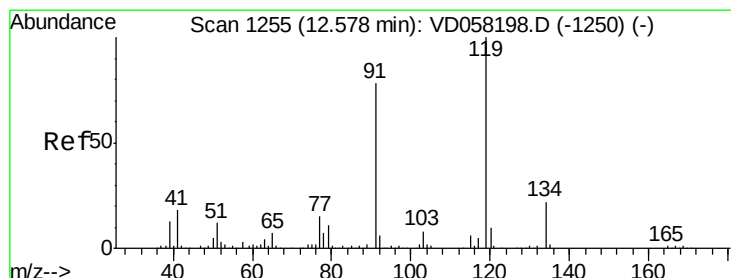
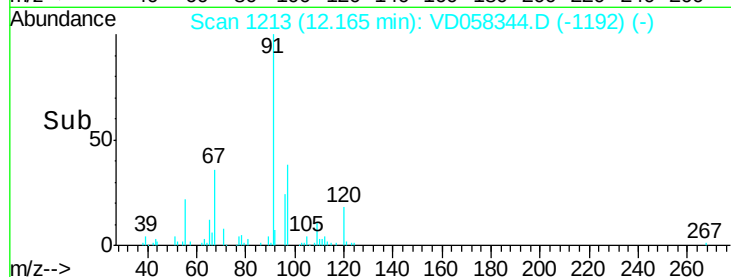
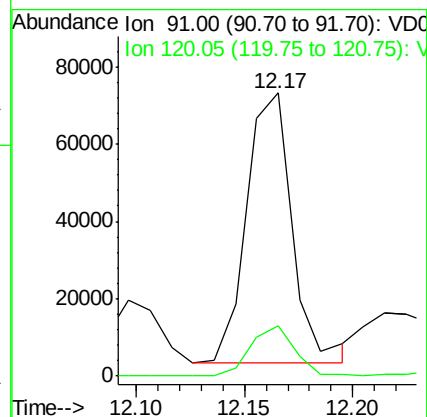
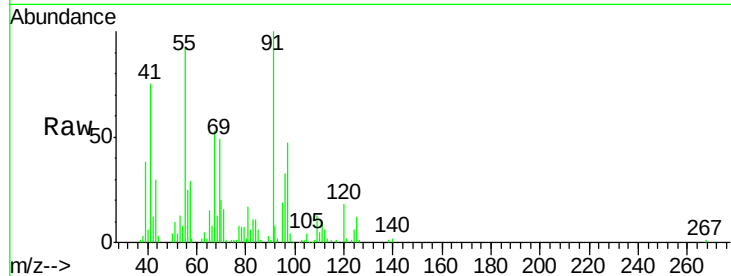
120 17.8 9.7 29.1

Manual Integrations

APPROVED

apatel

6/25/2018 2:27:57 PM



#83

tert-Butylbenzene

Concen: 22.58 ug/l

RT: 12.58 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VD058344.D

Acq: 23 Jun 2018 16:46

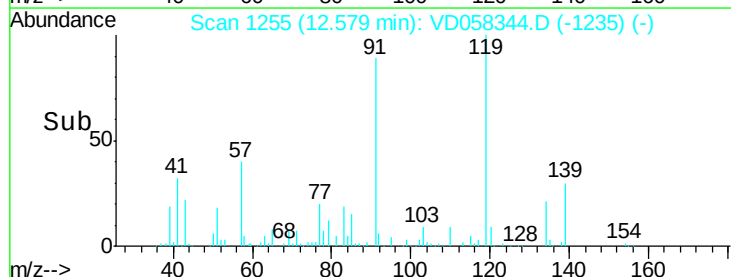
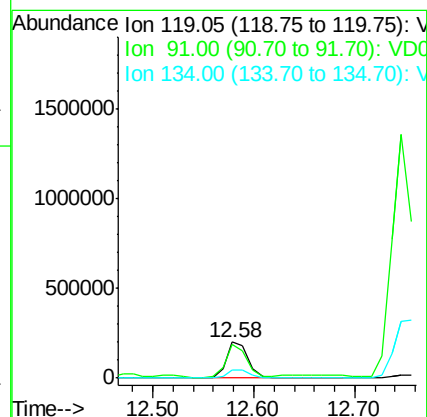
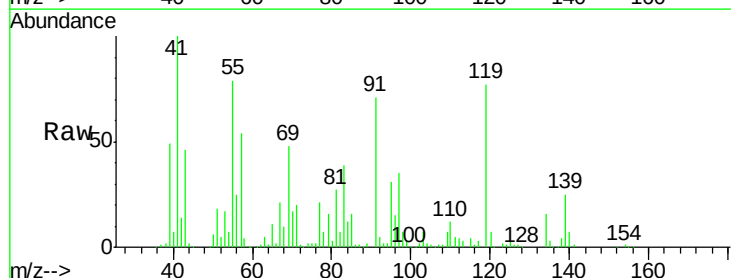
Tgt Ion: 119 Resp: 300316

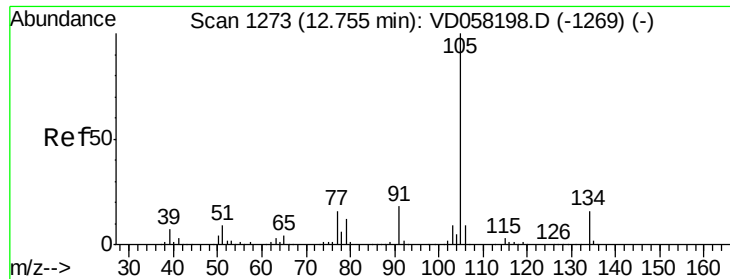
Ion Ratio Lower Upper

119 100

91 91.9 38.9 116.6

134 21.3 11.2 33.5





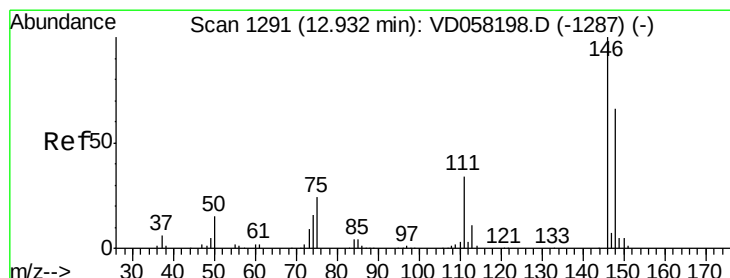
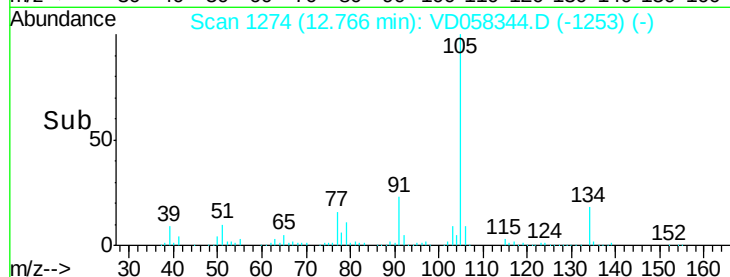
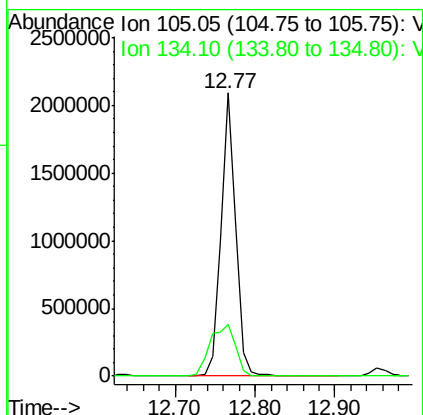
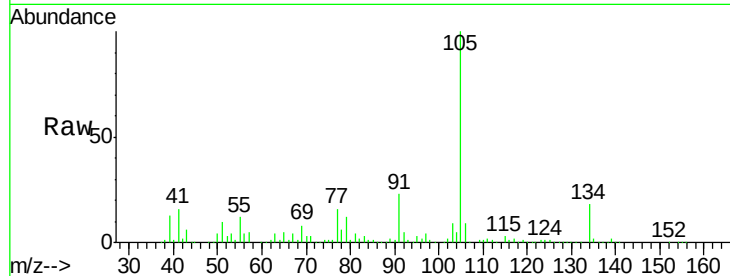
#85
 sec-Butylbenzene
 Concen: 175.04 ug/l
 RT: 12.77 min Scan# 1274
 Delta R.T. 0.01 min
 Lab File: VD058344.D
 Acq: 23 Jun 2018 16:46

Instrument :
 MSVOA_D
 ClientSampleId :
 DUP-0485-180619

Tot Ion:105 Resp: 2728286
 Ion Ratio Lower Upper
 105 100
 134 18.4 8.1 24.3

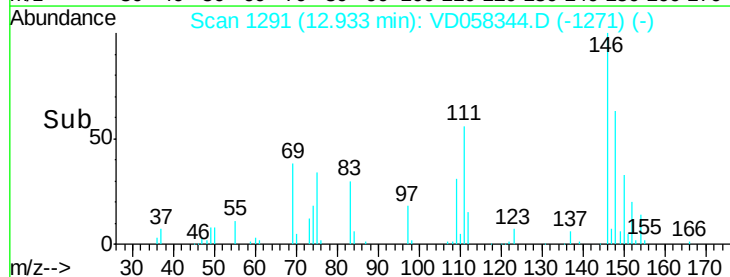
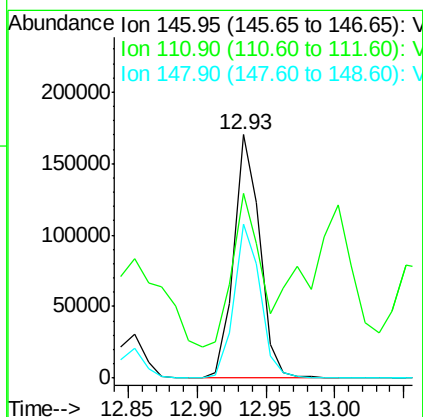
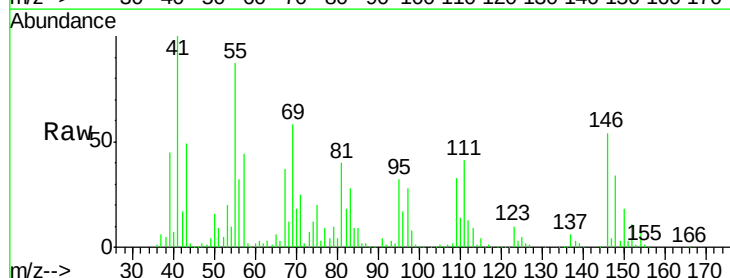
Manual Integrations
 APPROVED

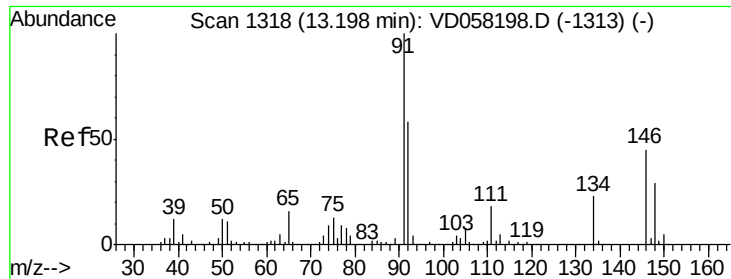
apatel
 6/25/2018 2:27:57 PM



#88
 1,4-Dichlorobenzene
 Concen: 29.73 ug/l
 RT: 12.93 min Scan# 1291
 Delta R.T. 0.00 min
 Lab File: VD058344.D
 Acq: 23 Jun 2018 16:46

Tgt Ion:146 Resp: 224074
 Ion Ratio Lower Upper
 146 100
 111 75.6 17.2 51.5#
 148 63.0 33.1 99.3





#89
 n-Butylbenzene
 Concen: 170.43 ug/l
 RT: 13.21 min Scan# 1319
 Delta R.T. 0.01 min
 Lab File: VD058344.D
 Acq: 23 Jun 2018 16:46

Instrument :
 MSVOA_D
 ClientSampleId :
 DUP-0485-180619

Tot Ion	Ratio	Lower	Upper
91	100		
92	55.1	29.2	87.6
134	28.1	11.3	33.8

Manual Integrations
 APPROVED

apatel
 6/25/2018 2:27:57 PM

