

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092019\
 Data File : VX012555.D
 Acq On : 20 Sep 2019 14:25
 Operator : JC/SP
 Sample : K4830-08DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S13-0280DL

Manual Integrations
 APPROVED

MMDadoda
 9/23/2019 11:29:55 AM

Quant Time: Sep 21 02:05:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 17 15:27:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	184562	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	293562	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	245228	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	102619	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	121533	45.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.90%	
35) Dibromofluoromethane	5.48	113	86016	48.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.82%	
50) Toluene-d8	8.71	98	338501	51.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.94%	
62) 4-Bromofluorobenzene	11.14	95	122333	44.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.60%	
Target Compounds						
					Qvalue	
31) Cyclohexane	5.57	56	41677	22.813	ug/l	99
39) Methylcyclohexane	7.46	83	36453	21.018	ug/l	99
40) Benzene	6.14	78	4665	0.822	ug/l #	86
67) Ethyl Benzene	10.25	91	342043	49.188	ug/l	99
68) m/p-Xylenes	10.35	106	23529	9.299	ug/l	99
69) o-Xylene	10.70	106	4355	1.674	ug/l	90
73) Isopropylbenzene	11.01	105	38137	5.923	ug/l	97
78) n-propylbenzene	11.35	91	49990	6.966	ug/l	98
80) 1,3,5-Trimethylbenzene	11.50	105	18598	3.387	ug/l	98
84) 1,2,4-Trimethylbenzene	11.80	105	250046	44.348	ug/l	100
85) sec-Butylbenzene	11.94	105	6784m	1.046	ug/l	
86) p-Isopropyltoluene	12.06	119	6557	1.101	ug/l	90
89) n-Butylbenzene	12.39	91	3379m	0.636	ug/l	
95) Naphthalene	13.83	128	105542	14.916	ug/l	99

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

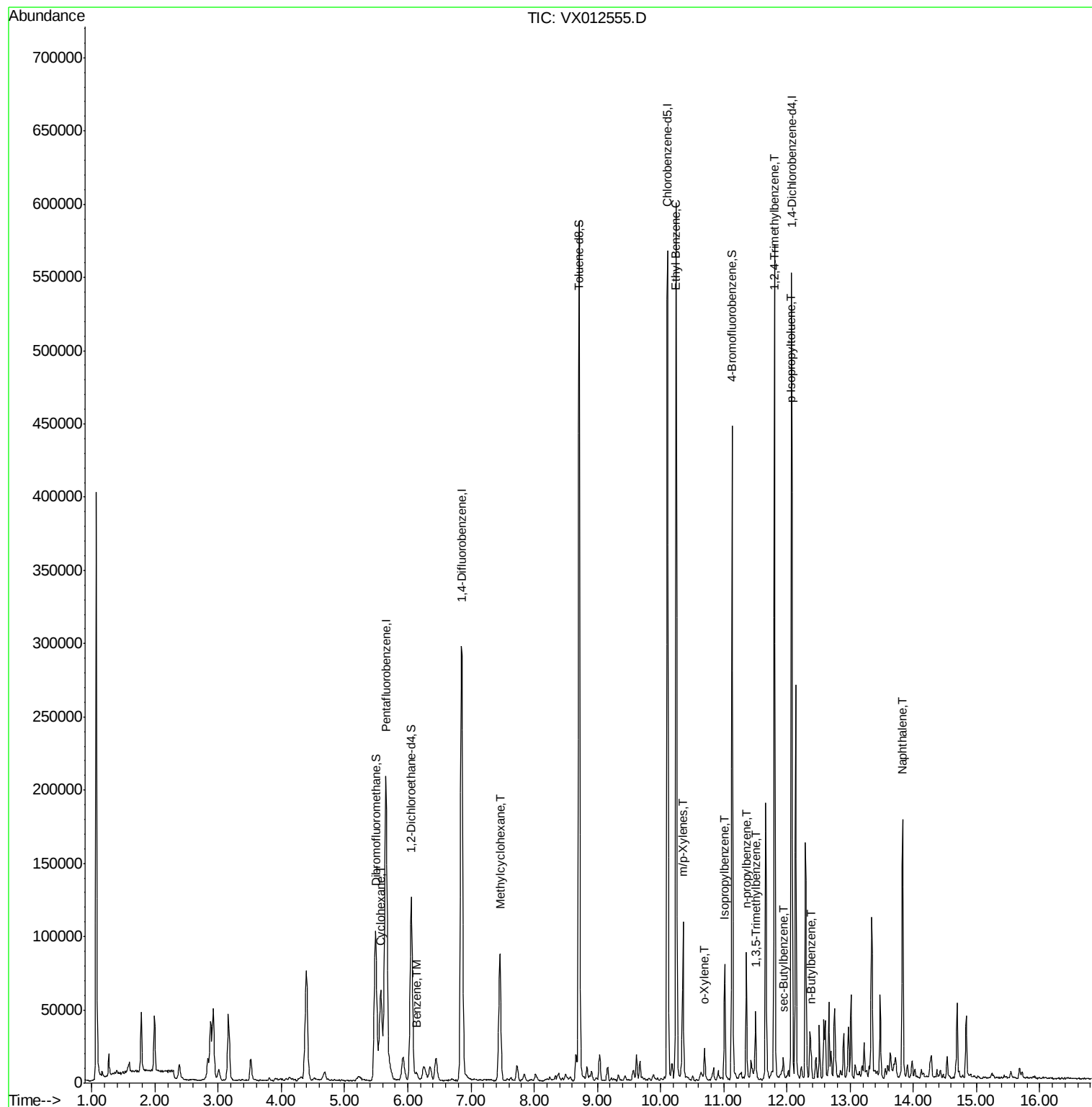
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX092019\
Data File : VX012555.D
Acq On : 20 Sep 2019 14:25
Operator : JC/SP
Sample : K4830-08DL 20X
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 12 Sample Multiplier: 1

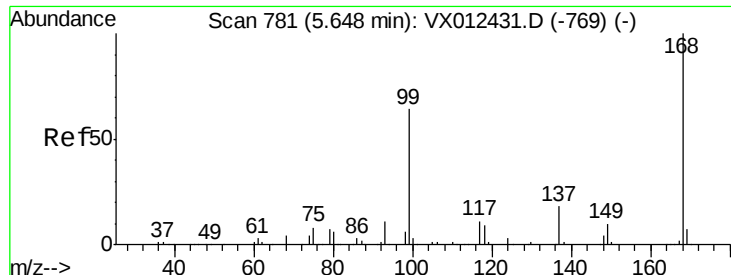
Instrument :
MSVOA_X
ClientSampleId :
S13-0280DL

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Quant Time: Sep 21 02:05:36 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 17 15:27:10 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012555.D

Acq: 20 Sep 2019 14:25

Instrument :

MSVOA_X

ClientSampleId :

S13-0280DL

Tot Ion:168 Resp: 184562

Ion Ratio Lower Upper

168 100

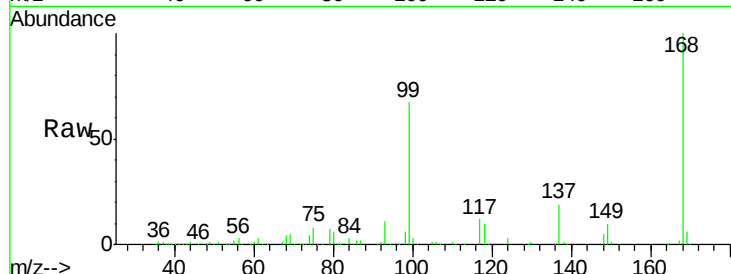
99 66.6 51.4 77.2

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

60000

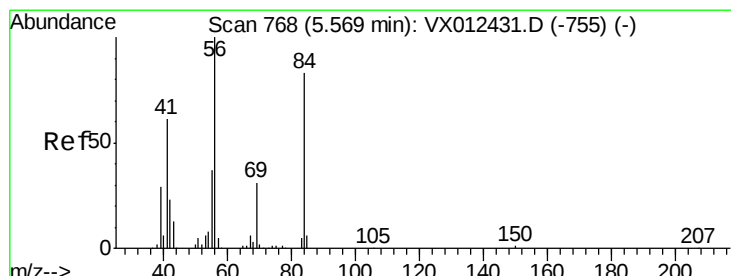
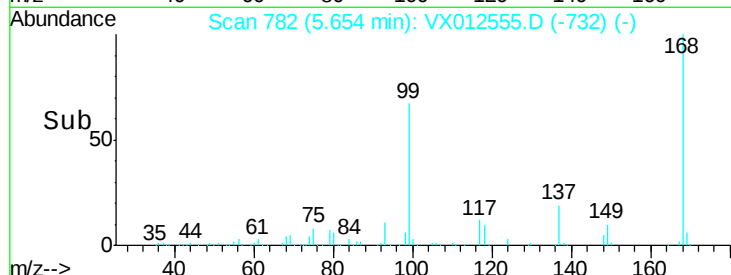
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#31

Cyclohexane

Concen: 22.813 ug/l

RT: 5.57 min Scan# 768

Delta R.T. 0.00 min

Lab File: VX012555.D

Acq: 20 Sep 2019 14:25

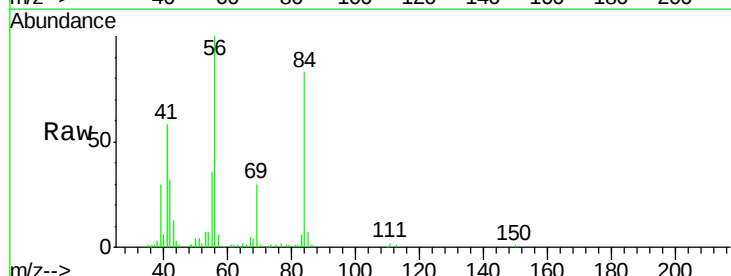
Tgt Ion: 56 Resp: 41677

Ion Ratio Lower Upper

56 100

69 29.1 25.0 37.6

84 83.2 66.4 99.6



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

15000

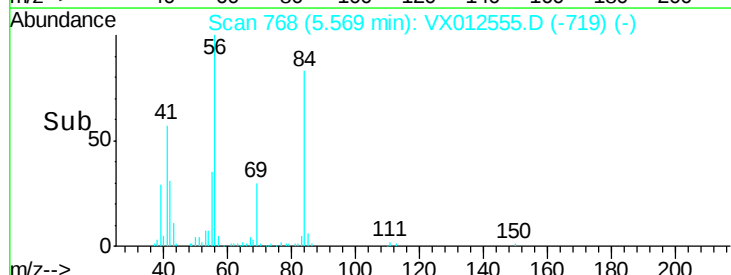
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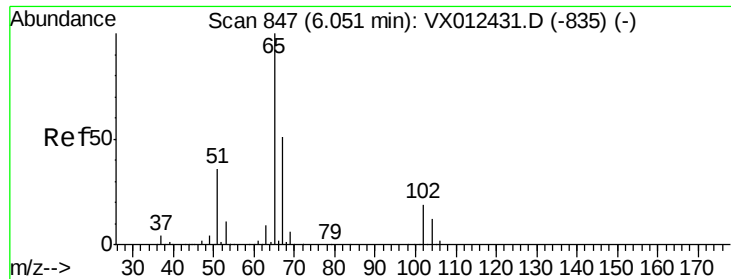
5000

0

Time-->

5.50 5.55 5.60 5.65 5.70





#33

1,2-Dichloroethane-d4

Concen: 45.946 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012555.D

Acq: 20 Sep 2019 14:25

Instrument :

MSVOA_X

ClientSampled :

S13-0280DL

Tot Ion: 65 Resp: 121533

Ion Ratio Lower Upper

65 100

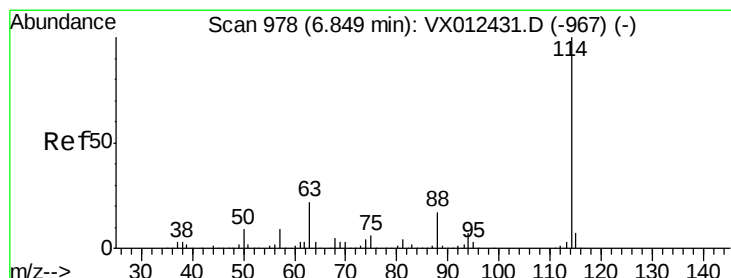
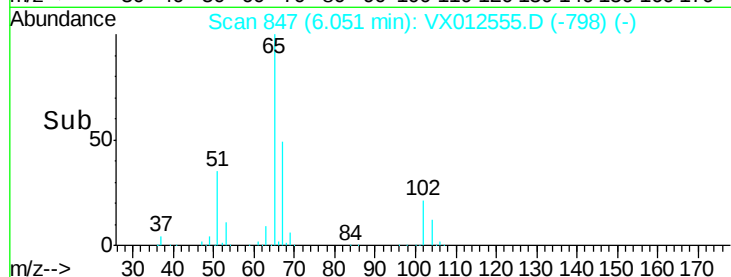
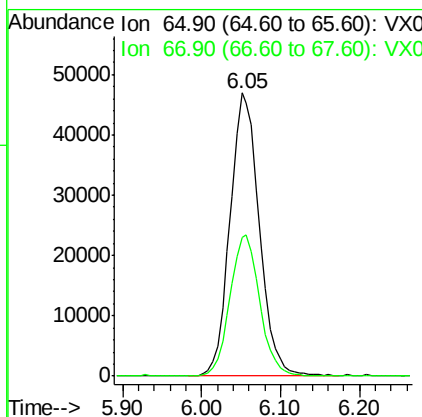
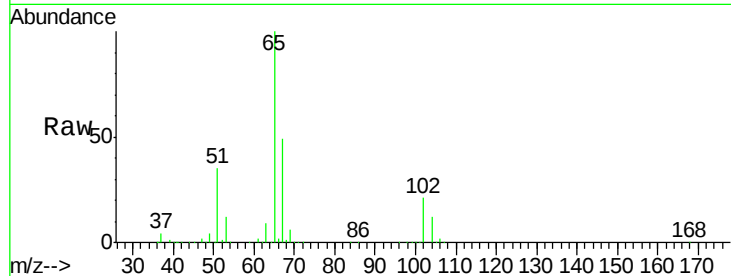
67 50.2 0.0 101.2

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012555.D

Acq: 20 Sep 2019 14:25

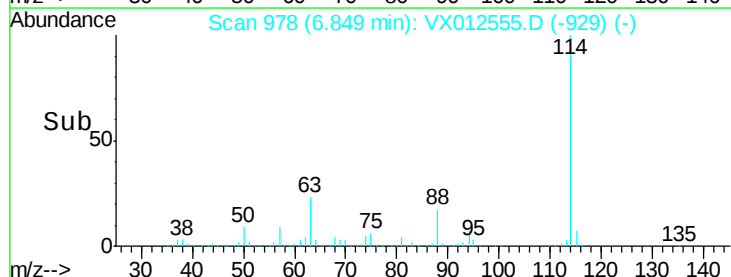
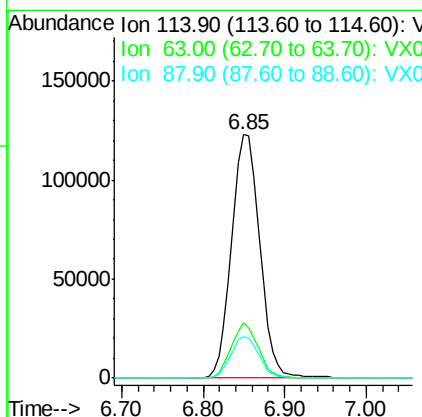
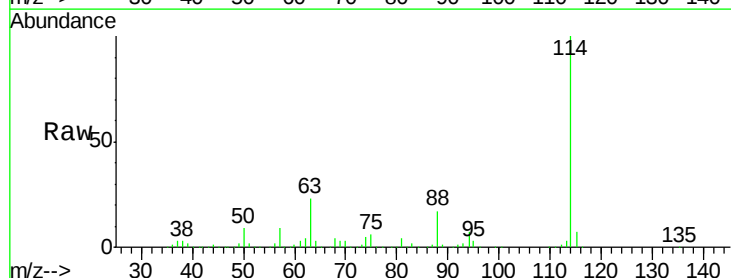
Tgt Ion: 114 Resp: 293562

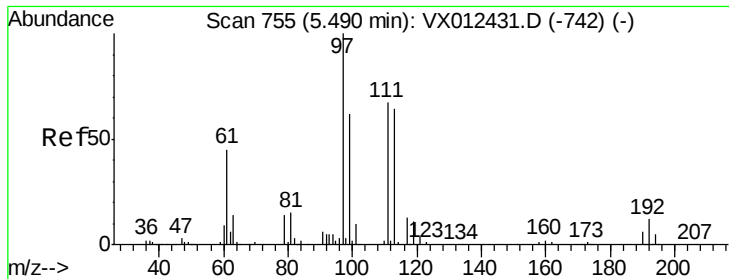
Ion Ratio Lower Upper

114 100

63 22.7 0.0 43.2

88 17.1 0.0 33.2





#35

Dibromofluoromethane

Concen: 48.410 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX012555.D

Acq: 20 Sep 2019 14:25

Instrument :

MSVOA_X

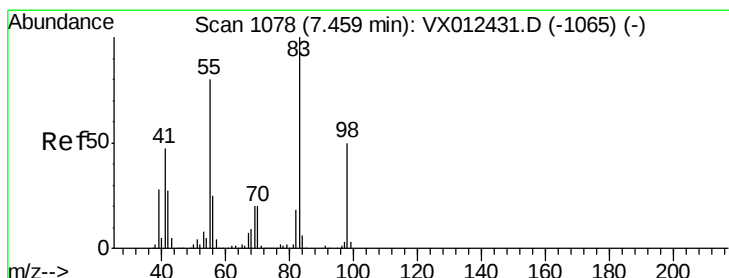
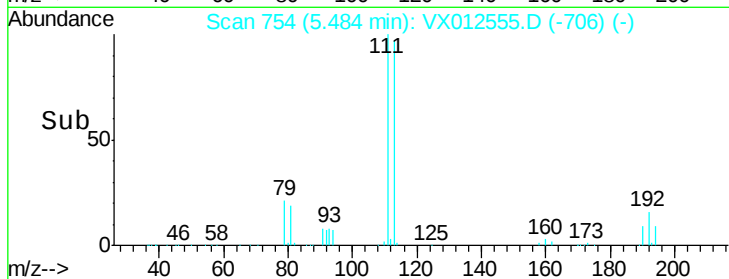
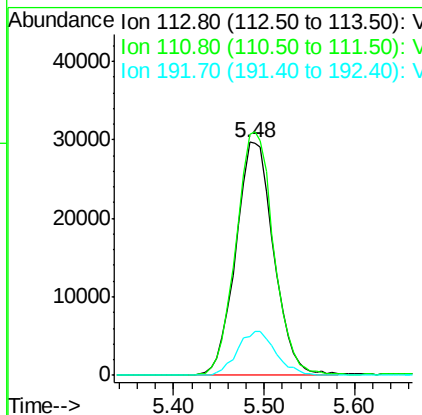
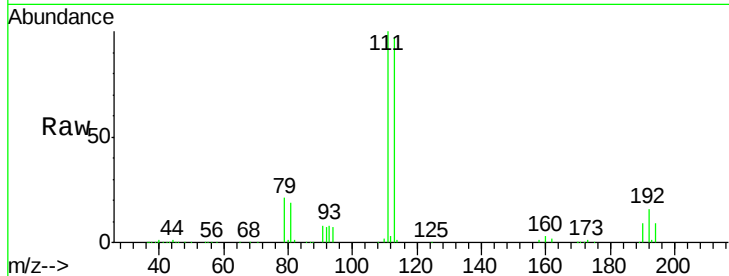
ClientSampleId :

S13-0280DL

Tot Ion:	113	Resp:	86016
Ion Ratio	Lower	Upper	
113	100		
111	104.0	83.4	125.2
192	19.1	14.4	21.6

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#39

Methylcyclohexane

Concen: 21.018 ug/l

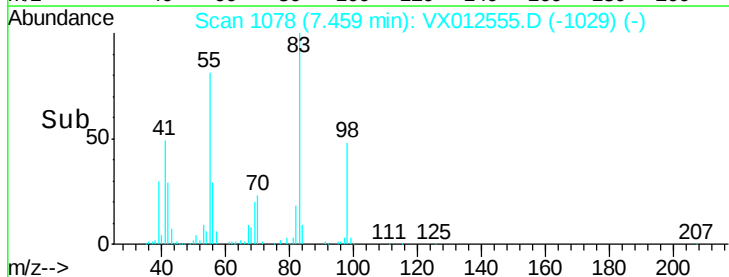
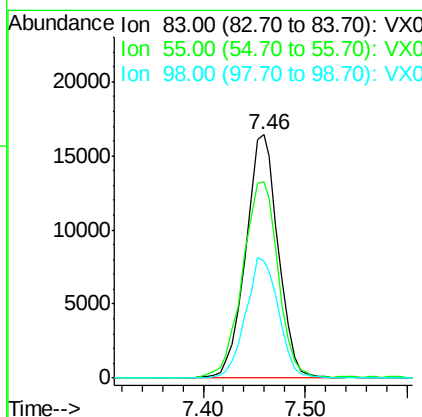
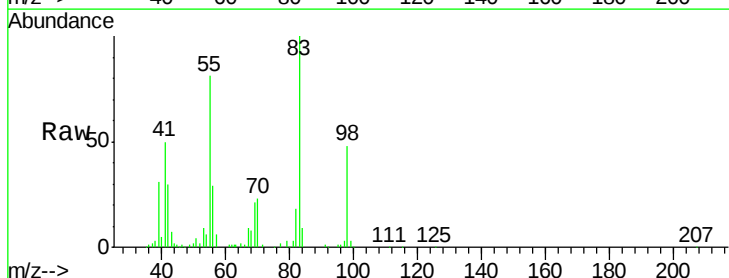
RT: 7.46 min Scan# 1078

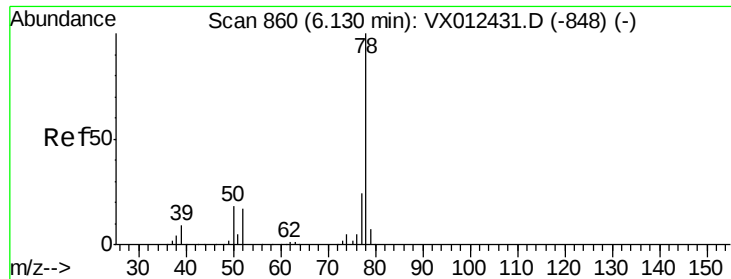
Delta R.T. 0.00 min

Lab File: VX012555.D

Acq: 20 Sep 2019 14:25

Tgt Ion:	83	Resp:	36453
Ion Ratio	Lower	Upper	
83	100		
55	80.2	64.4	96.6
98	47.9	40.1	60.1





#40

Benzene

Concen: 0.822 ug/l

RT: 6.14 min Scan# 861

Delta R.T. 0.01 min

Lab File: VX012555.D

Acq: 20 Sep 2019 14:25

Instrument :

MSVOA_X

ClientSampleId :

S13-0280DL

Tot Ion: 78 Resp: 4665

Ion Ratio Lower Upper

78 100

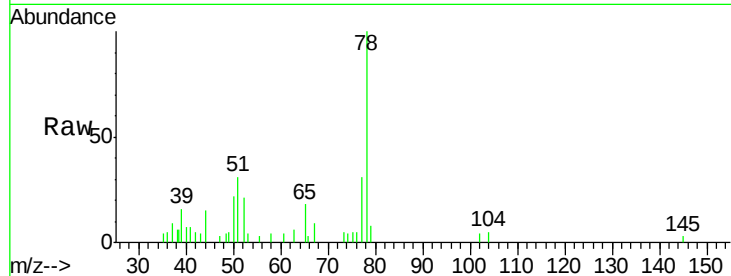
77 30.7 19.2 28.8#

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Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.14

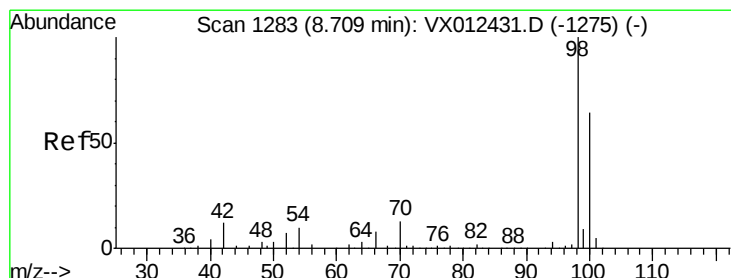
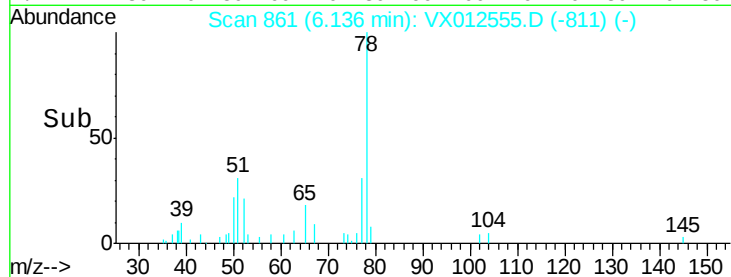
1500

1000

500

0

Time-->



#50

Toluene-d8

Concen: 51.469 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012555.D

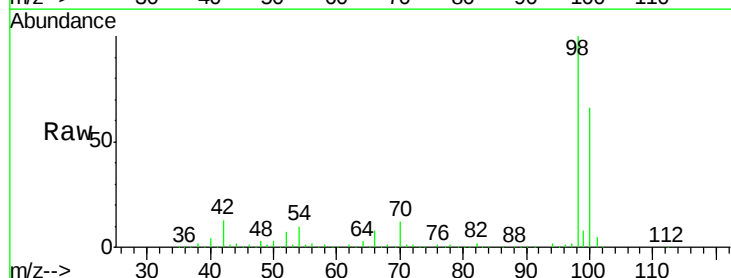
Acq: 20 Sep 2019 14:25

Tgt Ion: 98 Resp: 338501

Ion Ratio Lower Upper

98 100

100 66.8 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

250000

200000

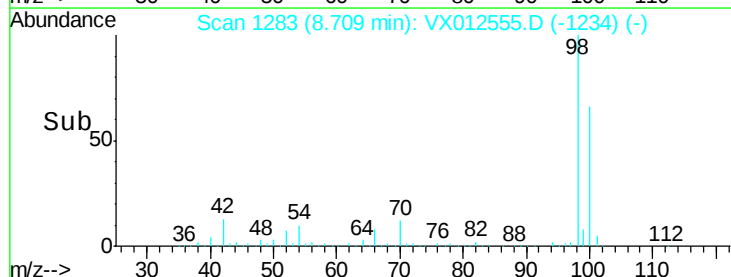
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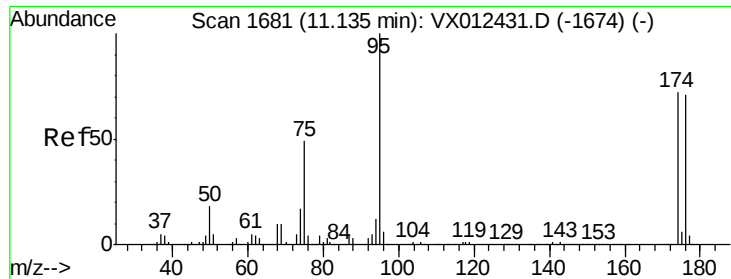
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50000

0

Time-->





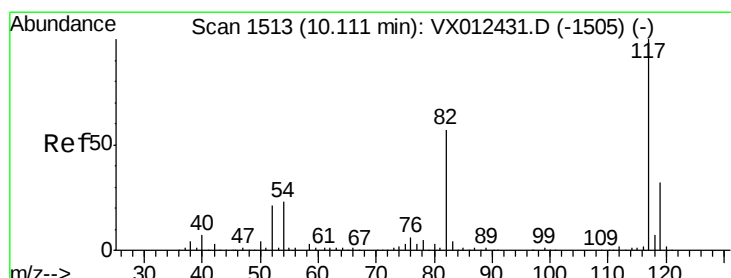
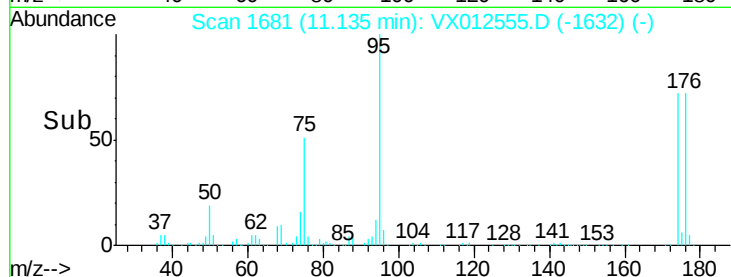
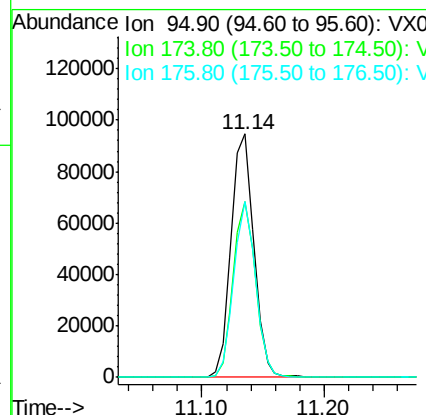
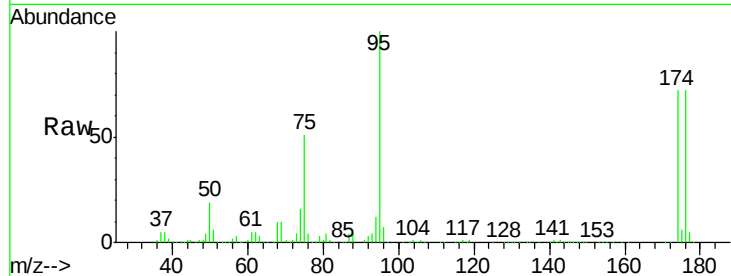
#62
4-Bromofluorobenzene
Concen: 44.799 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX012555.D
Acq: 20 Sep 2019 14:25

Instrument :
MSVOA_X
ClientSampleId :
S13-0280DL

Tot Ion	Ratio	Resp	Lower	Upper
95	100	122333		
174	70.7	0.0	140.0	
176	69.0	0.0	135.4	

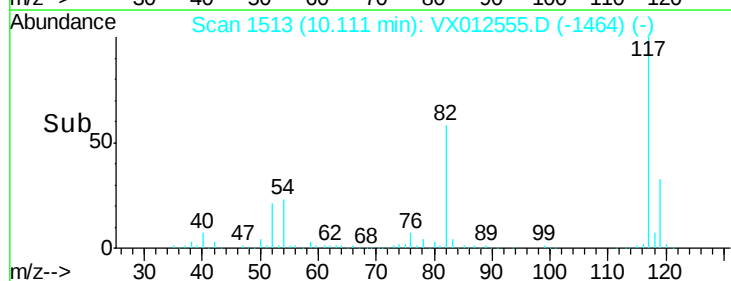
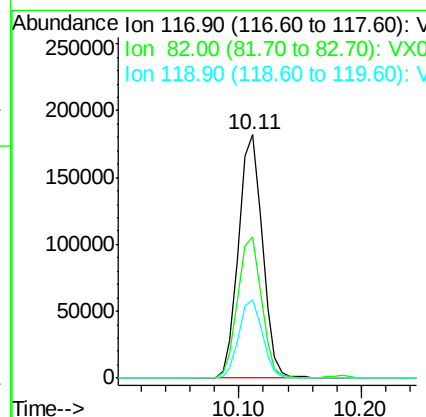
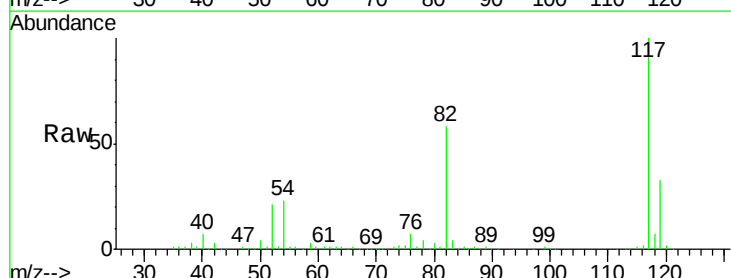
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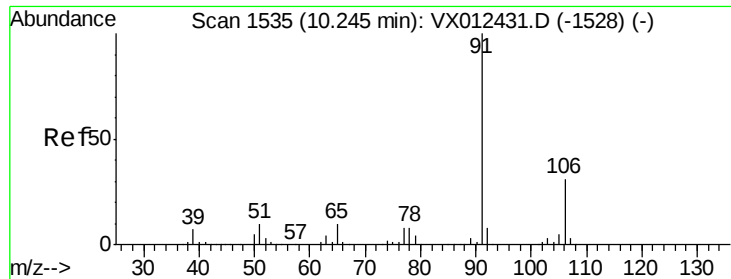
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#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012555.D
Acq: 20 Sep 2019 14:25

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	245228		
82	58.2	45.9	68.9	
119	32.5	25.3	37.9	





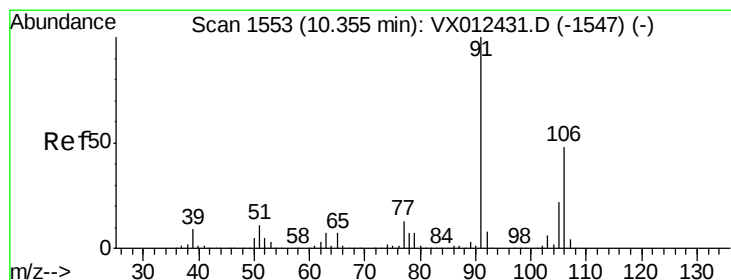
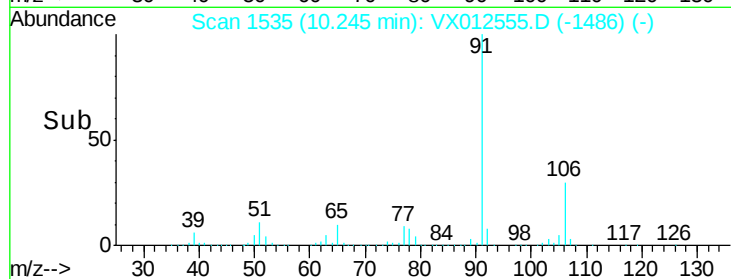
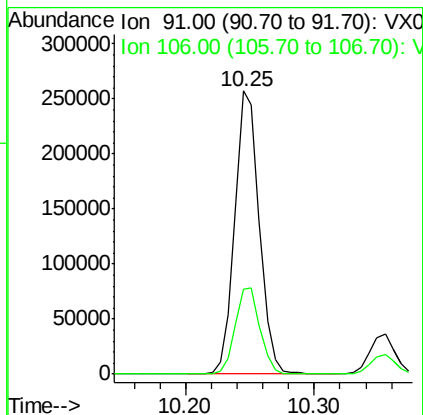
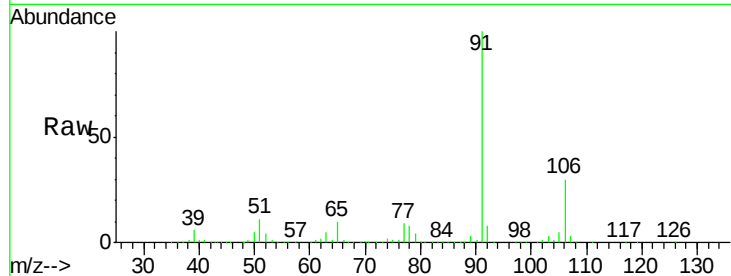
#67
Ethyl Benzene
Concen: 49.188 ug/l
RT: 10.25 min Scan# 1535
Delta R.T. 0.00 min
Lab File: VX012555.D
Acq: 20 Sep 2019 14:25

Instrument :
MSVOA_X
ClientSampled :
S13-0280DL

Tot Ion: 91 Resp: 342043
Ion Ratio Lower Upper
91 100
106 30.2 24.6 37.0

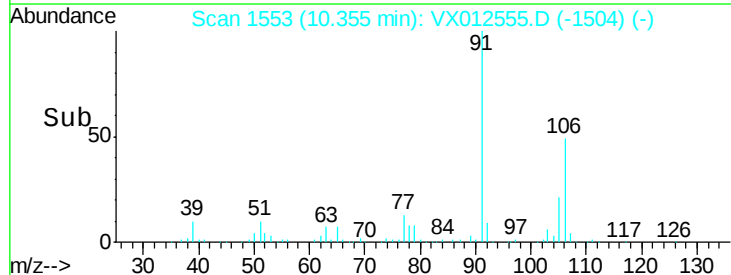
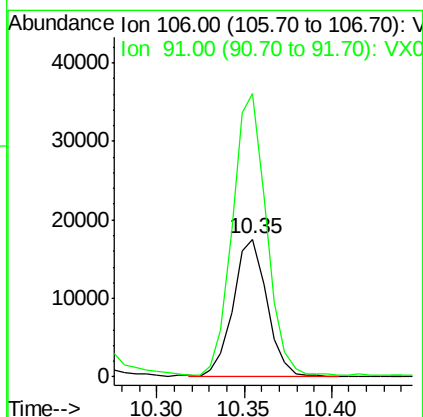
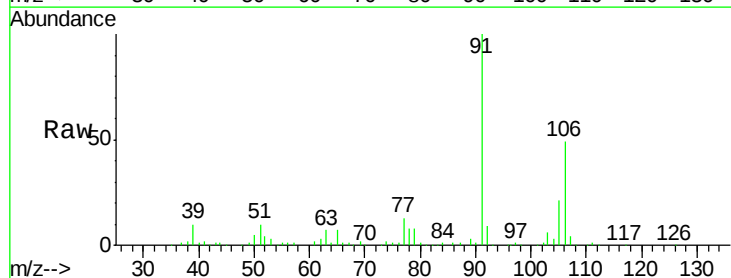
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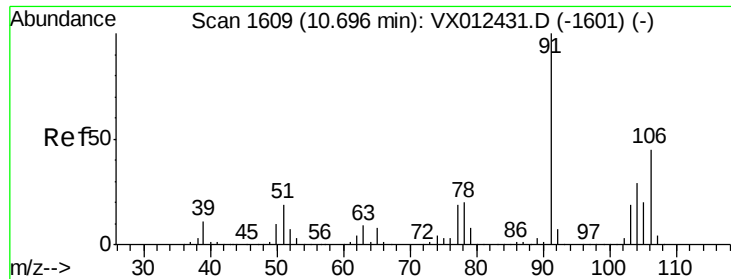
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9/23/2019 11:29:55 AM



#68
m/p-Xylenes
Concen: 9.299 ug/l
RT: 10.35 min Scan# 1553
Delta R.T. 0.00 min
Lab File: VX012555.D
Acq: 20 Sep 2019 14:25

Tgt Ion: 106 Resp: 23529
Ion Ratio Lower Upper
106 100
91 206.1 166.6 250.0





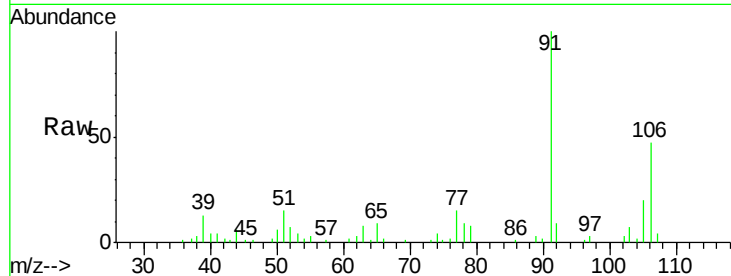
#69
o-Xylene
Concen: 1.674 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX012555.D
Acq: 20 Sep 2019 14:25

Instrument :
MSVOA_X
ClientSampled :
S13-0280DL

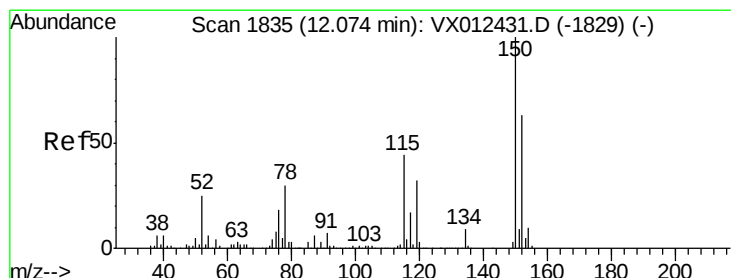
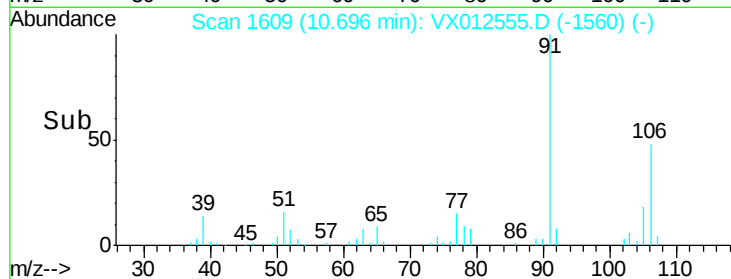
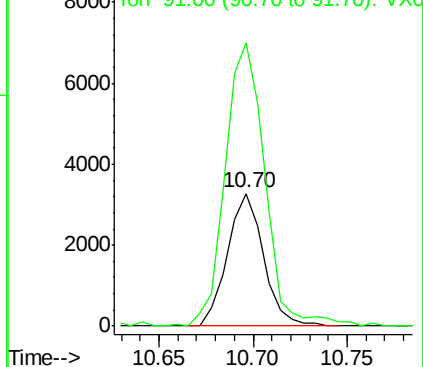
Tot Ion:106 Resp: 4355
Ion Ratio Lower Upper
106 100
91 235.0 109.4 328.2

Manual Integrations
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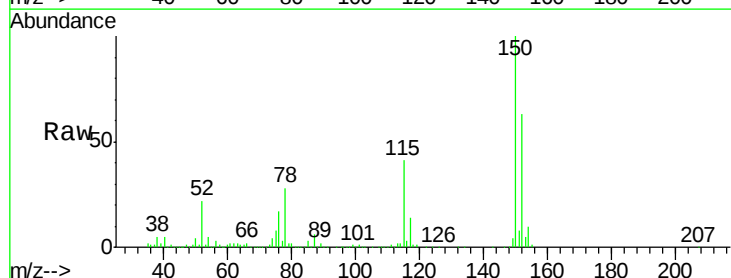


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

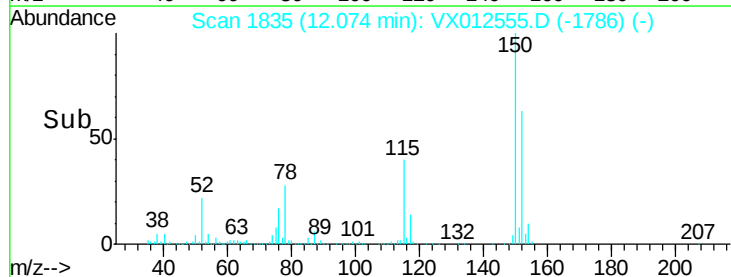
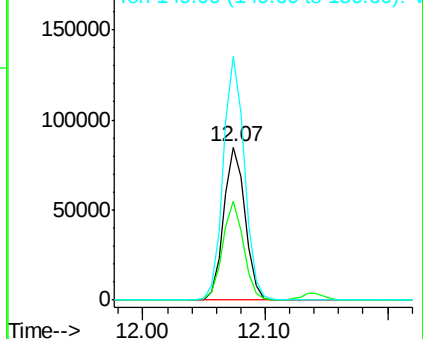


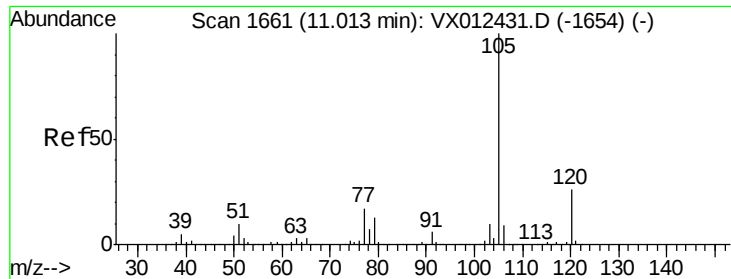
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012555.D
Acq: 20 Sep 2019 14:25

Tgt Ion:152 Resp: 102619
Ion Ratio Lower Upper
152 100
115 63.6 44.1 132.3
150 157.9 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 5.923 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VX012555.D

Acq: 20 Sep 2019 14:25

Instrument :

MSVOA_X

ClientSampled :

S13-0280DL

Tot Ion: 105 Resp: 38137

Ion Ratio Lower Upper

105 100

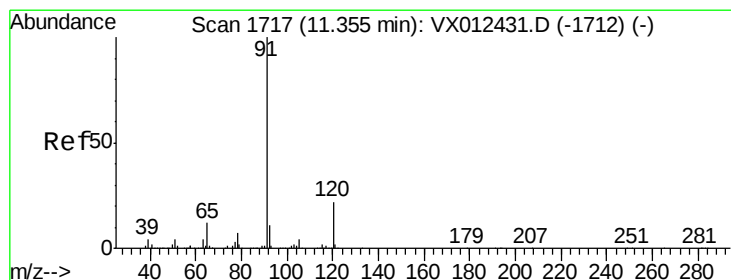
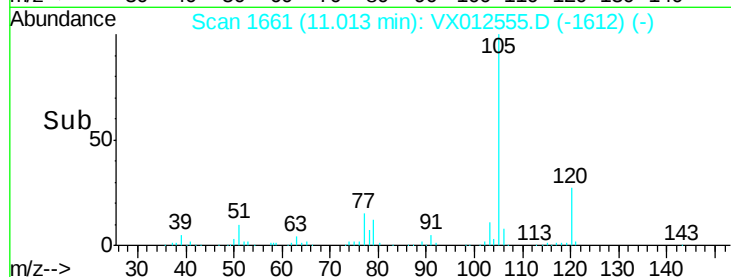
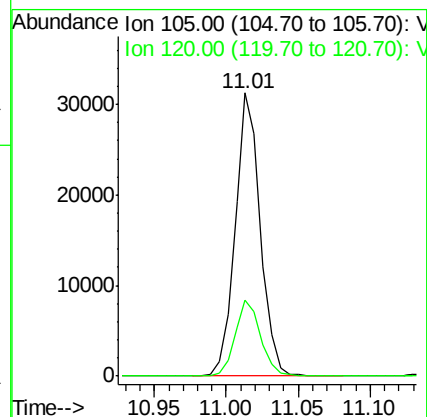
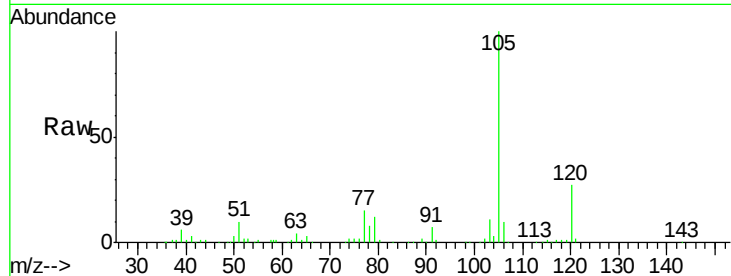
120 27.4 12.9 38.7

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#78

n-propylbenzene

Concen: 6.966 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VX012555.D

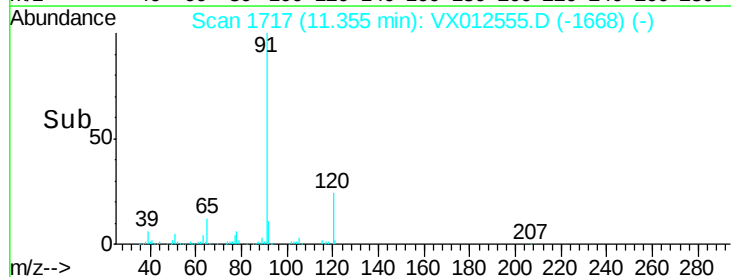
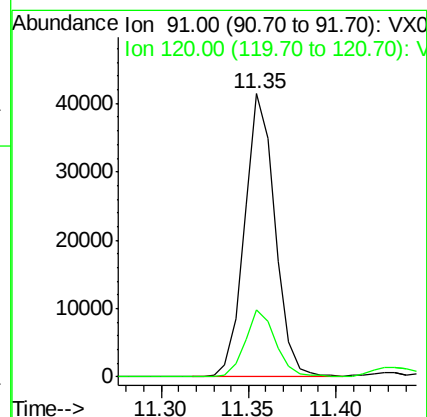
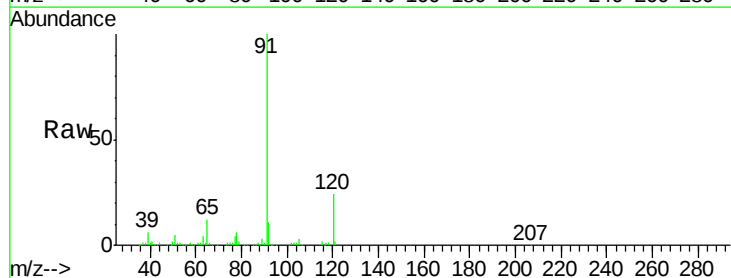
Acq: 20 Sep 2019 14:25

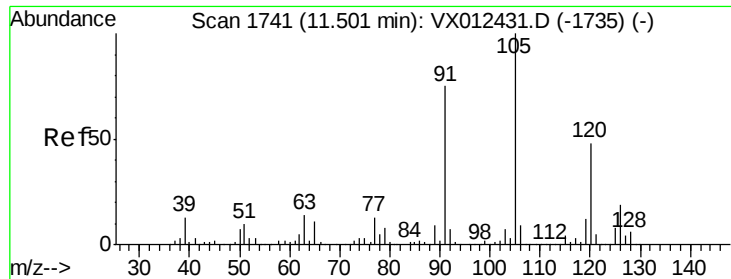
Tgt Ion: 91 Resp: 49990

Ion Ratio Lower Upper

91 100

120 23.7 11.3 33.8





#80

1,3,5-Trimethylbenzene

Concen: 3.387 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX012555.D

Acq: 20 Sep 2019 14:25

Instrument :

MSVOA_X

ClientSampled :

S13-0280DL

Tot Ion:105 Resp: 18598

Ion Ratio Lower Upper

105 100

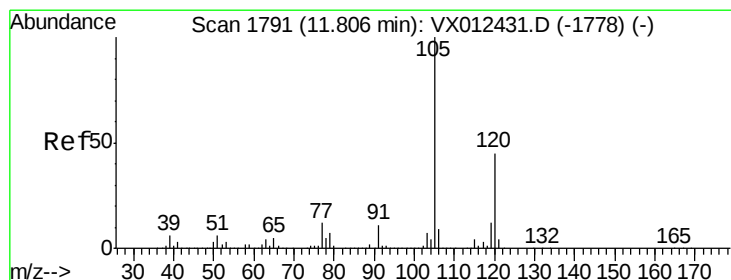
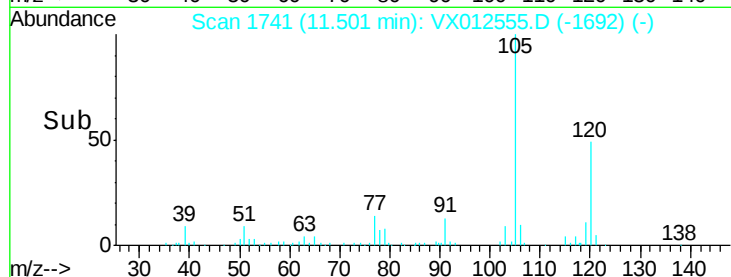
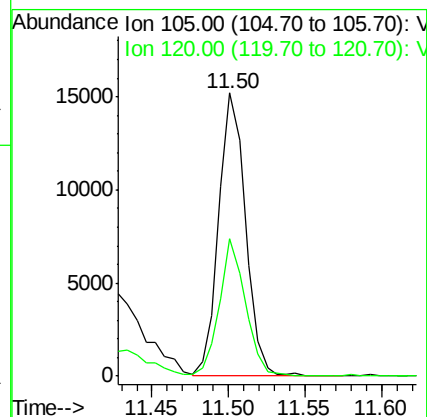
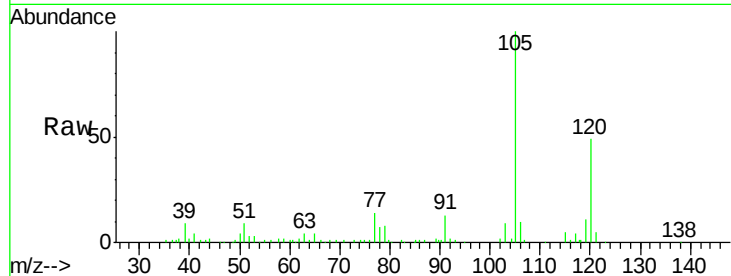
120 47.2 24.3 72.8

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#84

1,2,4-Trimethylbenzene

Concen: 44.348 ug/l

RT: 11.80 min Scan# 1790

Delta R.T. -0.01 min

Lab File: VX012555.D

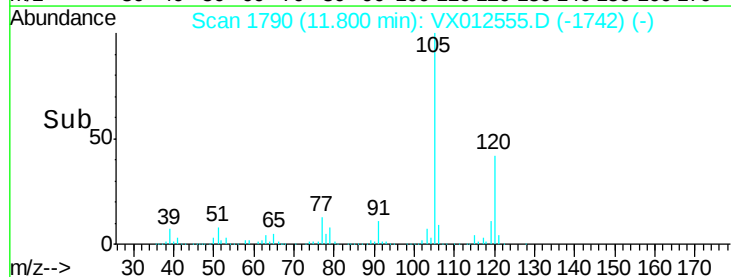
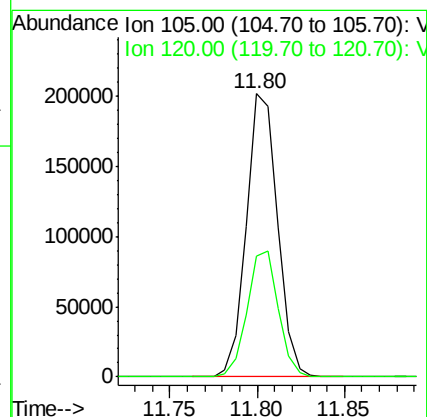
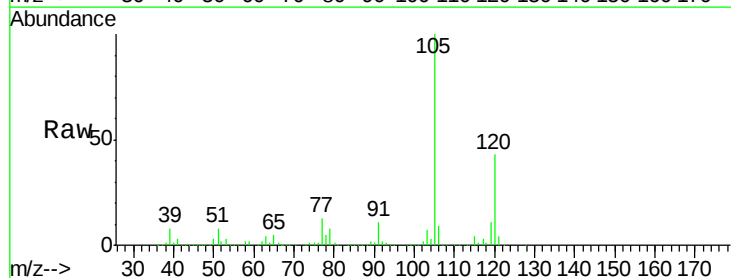
Acq: 20 Sep 2019 14:25

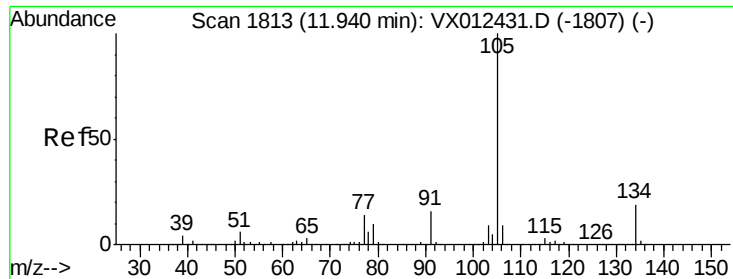
Tgt Ion:105 Resp: 250046

Ion Ratio Lower Upper

105 100

120 44.4 22.2 66.6





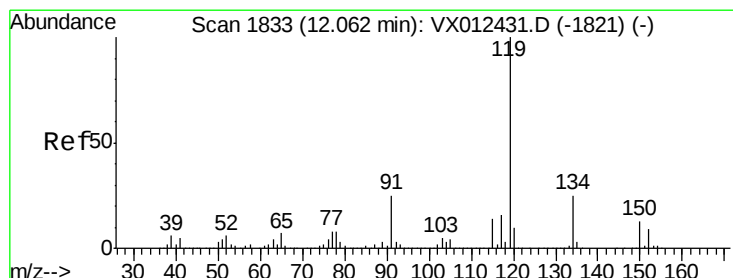
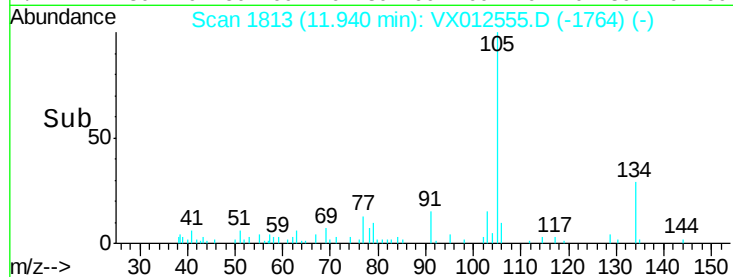
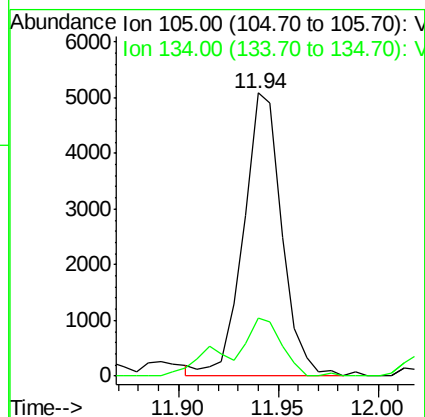
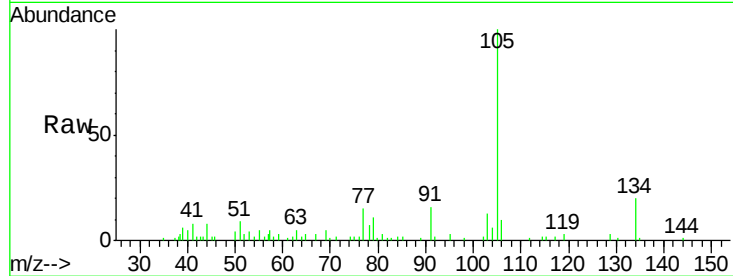
#85
 sec-Butylbenzene
 Concen: 1.046 ug/l m
 RT: 11.94 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: VX012555.D
 Acq: 20 Sep 2019 14:25

Instrument :
 MSVOA_X
 ClientSampleId :
 S13-0280DL

Tot Ion:105 Resp: 6784
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.8 29.4#

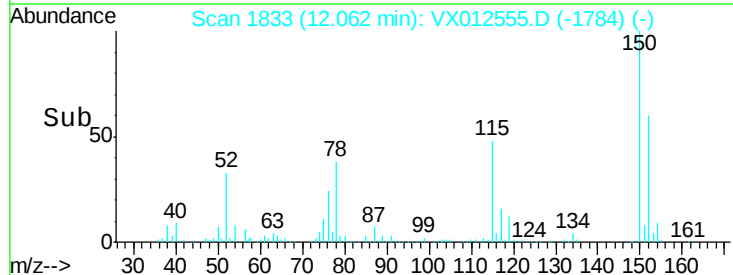
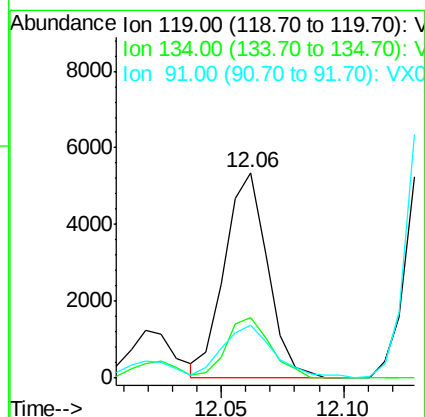
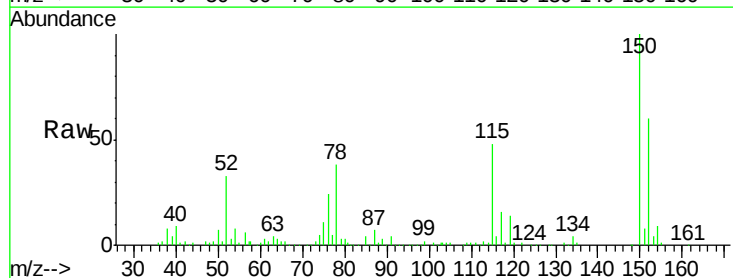
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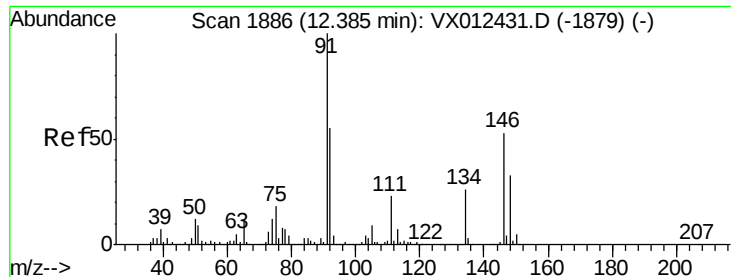
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#86
 p-Isopropyltoluene
 Concen: 1.101 ug/l
 RT: 12.06 min Scan# 1833
 Delta R.T. 0.00 min
 Lab File: VX012555.D
 Acq: 20 Sep 2019 14:25

Tgt Ion:119 Resp: 6557
 Ion Ratio Lower Upper
 119 100
 134 30.4 12.7 38.1
 91 31.1 12.8 38.4





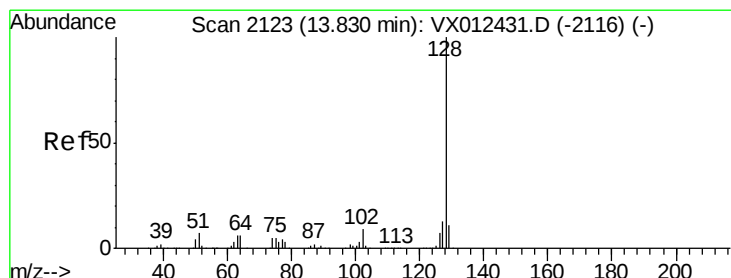
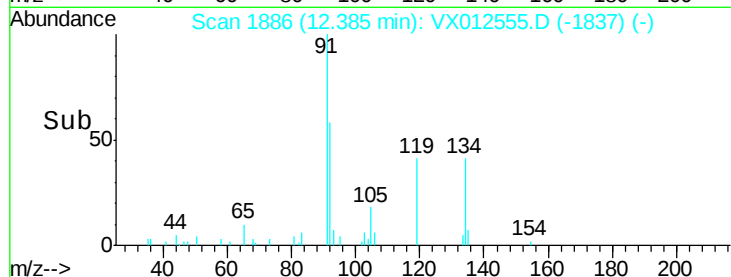
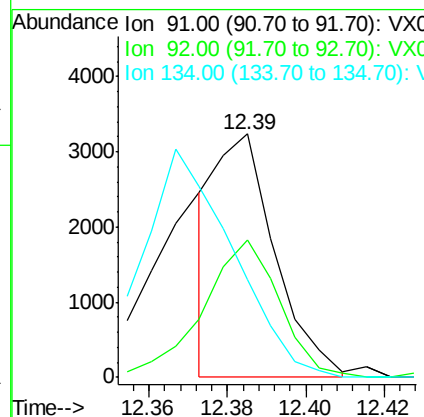
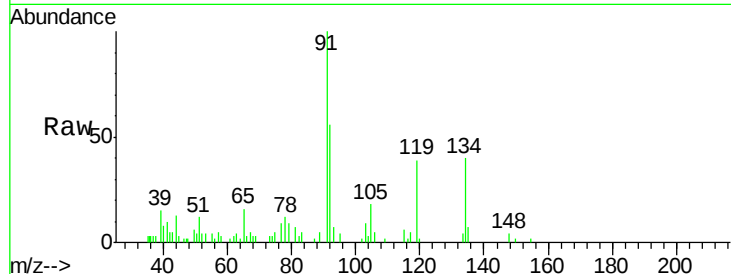
#89
n-Butylbenzene
Concen: 0.636 ug/l m
RT: 12.39 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX012555.D
Acq: 20 Sep 2019 14:25

Instrument :
MSVOA_X
ClientSampled :
S13-0280DL

Tot Ion: 91 Resp: 3379
Ion Ratio Lower Upper
91 100
92 74.5 27.7 83.0
134 143.1 12.9 38.6#

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#95
Naphthalene
Concen: 14.916 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX012555.D
Acq: 20 Sep 2019 14:25

Tgt Ion: 128 Resp: 105542
Ion Ratio Lower Upper
128 100
127 13.2 10.2 15.4
129 11.6 8.8 13.2

