

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX091919\
 Data File : VX012535.D
 Acq On : 19 Sep 2019 17:54
 Operator : JC/SP
 Sample : K4887-01DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z2-0157DL

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 10:45:37 AM

Quant Time: Sep 20 06:00:41 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	179099	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	282995	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	240814	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	100702	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	120456	46.93	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.86%	
35) Dibromofluoromethane	5.49	113	84199	49.16	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.32%	
50) Toluene-d8	8.71	98	329645	51.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.98%	
62) 4-Bromofluorobenzene	11.14	95	122817	46.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.32%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.40	62	1663	1.563	ug/l	99
27) cis-1,2-Dichloroethene	4.58	96	13071	7.483	ug/l	89
31) Cyclohexane	5.56	56	30767	17.355	ug/l	96
39) Methylcyclohexane	7.45	83	29954	17.915	ug/l	100
44) Trichloroethene	7.21	130	9910	6.888	ug/l	84
64) Tetrachloroethene	9.33	164	26958	24.430	ug/l	96
67) Ethyl Benzene	10.25	91	52113	7.632	ug/l	100
68) m/p-Xylenes	10.35	106	109101	43.911	ug/l	100
73) Isopropylbenzene	11.01	105	62018	9.815	ug/l	99
78) n-propylbenzene	11.35	91	60819	8.636	ug/l	100
80) 1,3,5-Trimethylbenzene	11.50	105	91567	16.993	ug/l	99
84) 1,2,4-Trimethylbenzene	11.81	105	273036	49.348	ug/l	100
85) sec-Butylbenzene	11.95	105	6672m	1.049	ug/l	
86) p-Isopropyltoluene	12.06	119	4933	0.844	ug/l	84
89) n-Butylbenzene	12.38	91	2420m	0.464	ug/l	
95) Naphthalene	13.83	128	32320	4.655	ug/l	98

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

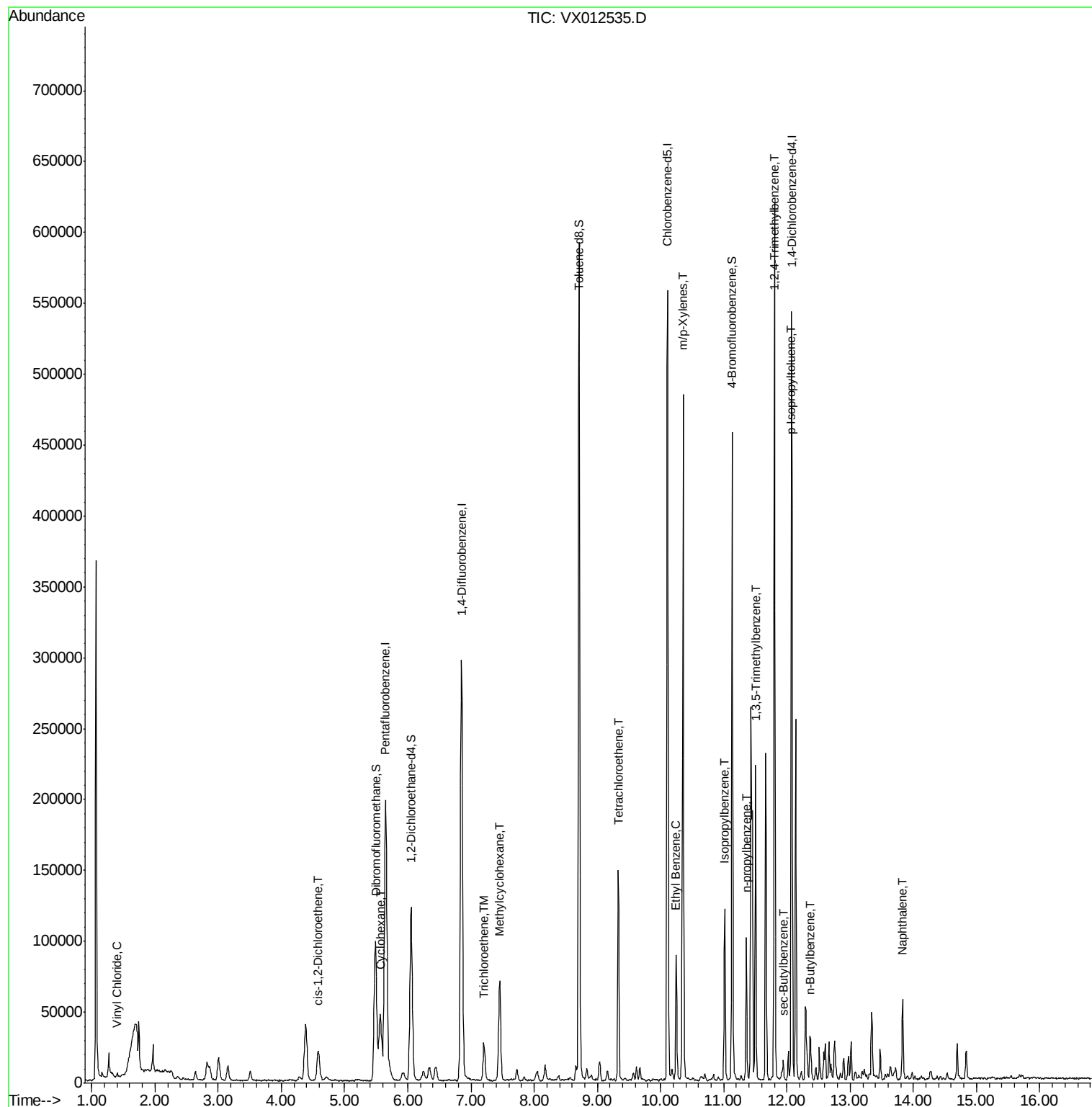
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091919\
Data File : VX012535.D
Acq On : 19 Sep 2019 17:54
Operator : JC/SP
Sample : K4887-01DL 5X
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 20 Sample Multiplier: 1

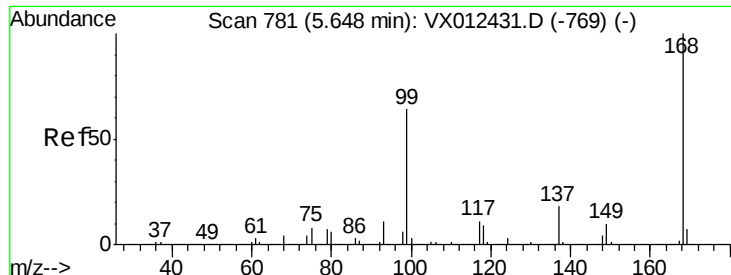
Instrument :
MSVOA_X
ClientSampleId :
Z2-0157DL

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Quant Time: Sep 20 06:00:41 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# 781

Delta R.T. -0.00 min

Lab File: VX012535.D

Acq: 19 Sep 2019 17:54

Instrument :

MSVOA_X

ClientSampleId :

Z2-0157DL

Tot Ion:168 Resp: 179099

Ion Ratio Lower Upper

168 100

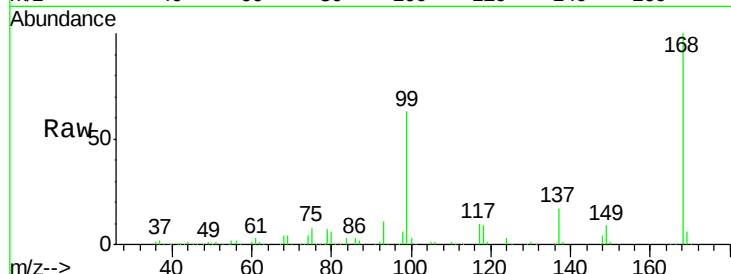
99 62.5 51.4 77.2

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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

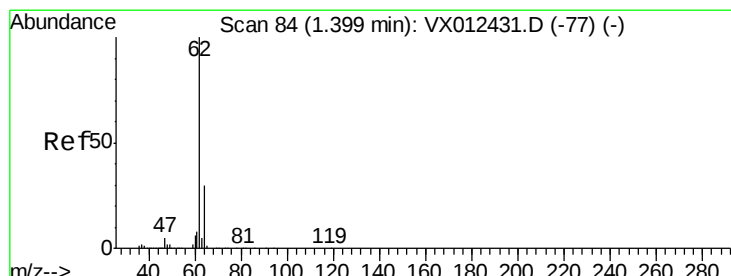
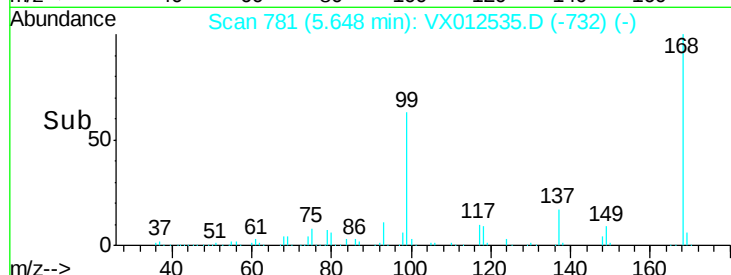
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 1.563 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX012535.D

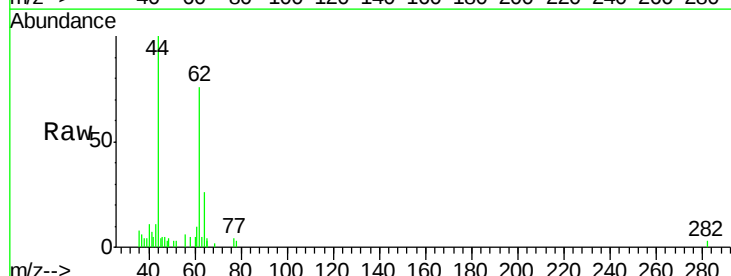
Acq: 19 Sep 2019 17:54

Tgt Ion: 62 Resp: 1663

Ion Ratio Lower Upper

62 100

64 29.6 24.2 36.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

2000

1500

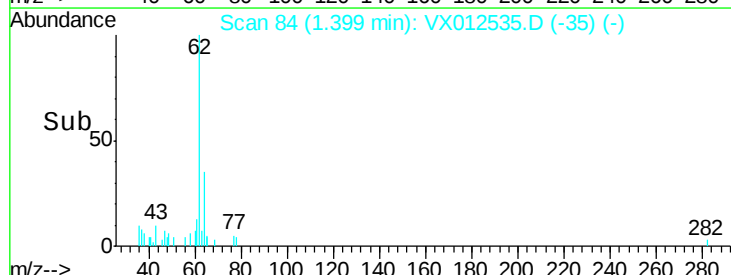
1000

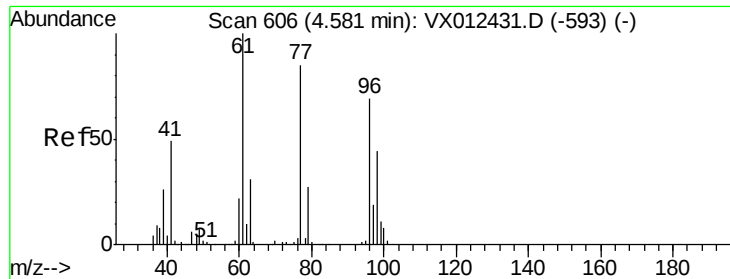
500

0

Time-->

1.35 1.40 1.45





#27

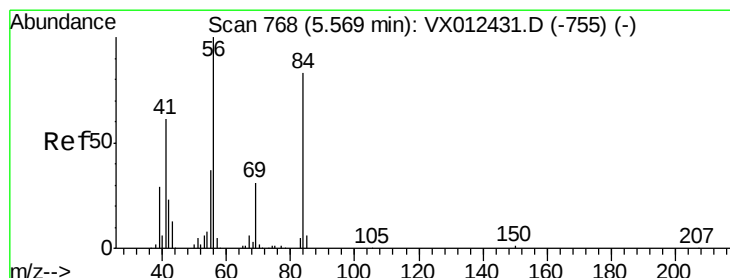
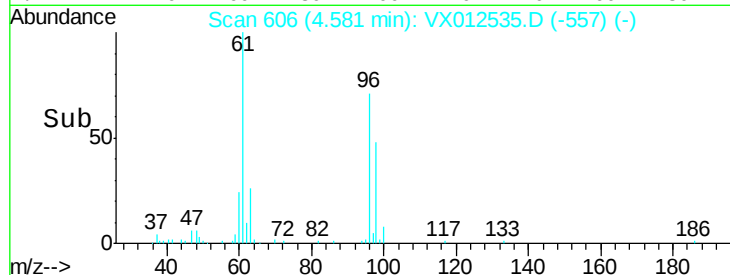
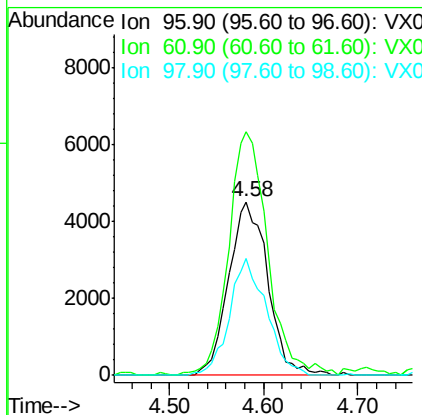
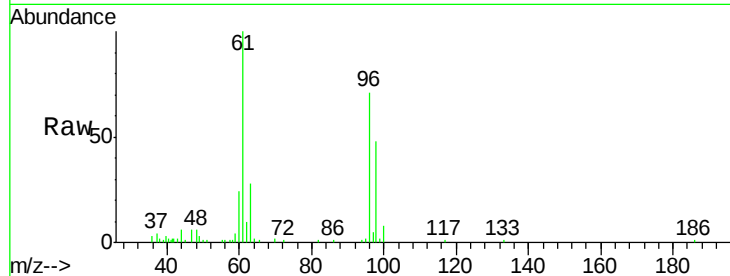
cis-1,2-Dichloroethene
 Concen: 7.483 ug/l
 RT: 4.58 min Scan# 606
 Delta R.T. -0.00 min
 Lab File: VX012535.D
 Acq: 19 Sep 2019 17:54

Instrument :
 MSVOA_X
 ClientSampleId :
 Z2-0157DL

Tot Ion	Ratio	Resp	Lower	Upper
96	100	13071		
61	140.6	0.0	319.4	
98	64.1	0.0	130.6	

Manual Integrations
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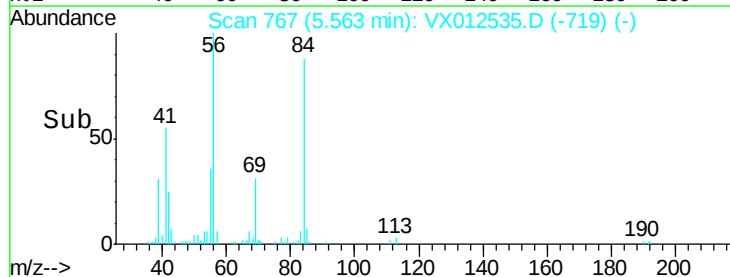
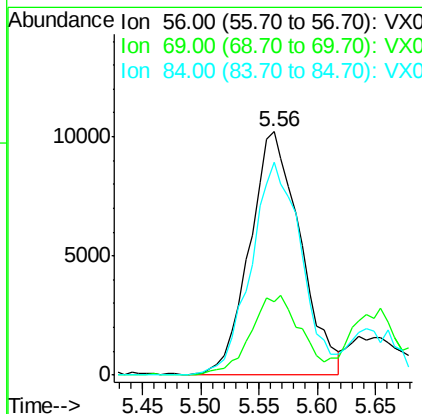
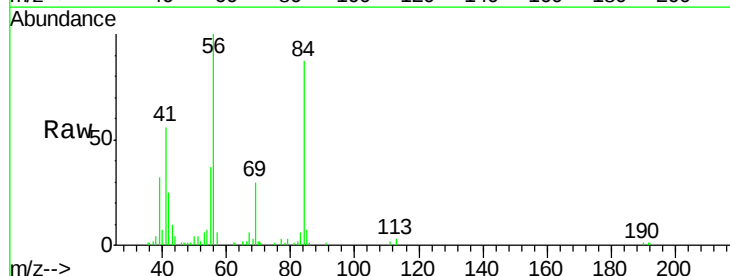
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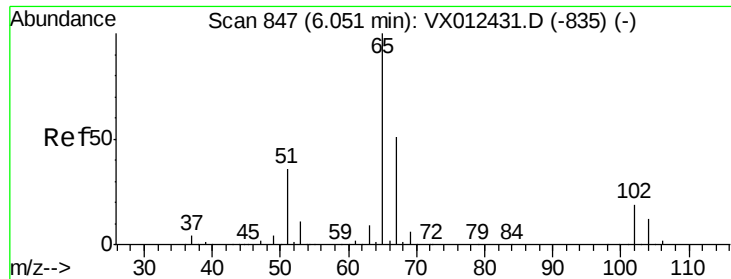


#31

Cyclohexane
 Concen: 17.355 ug/l
 RT: 5.56 min Scan# 767
 Delta R.T. -0.01 min
 Lab File: VX012535.D
 Acq: 19 Sep 2019 17:54

Tgt Ion	Ratio	Resp	Lower	Upper
56	100	30767		
69	30.3	25.0	37.6	
84	87.4	66.4	99.6	





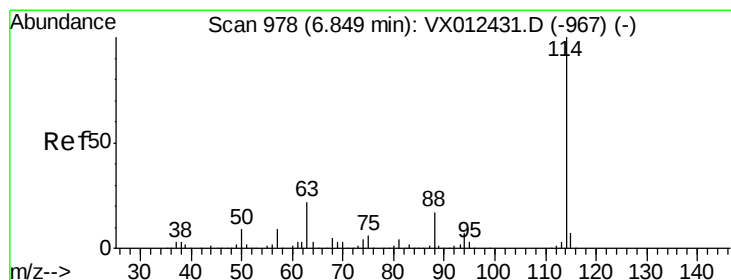
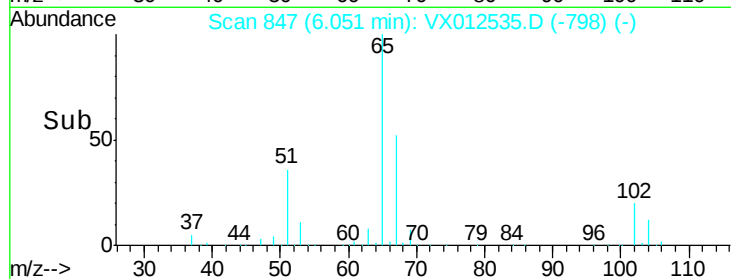
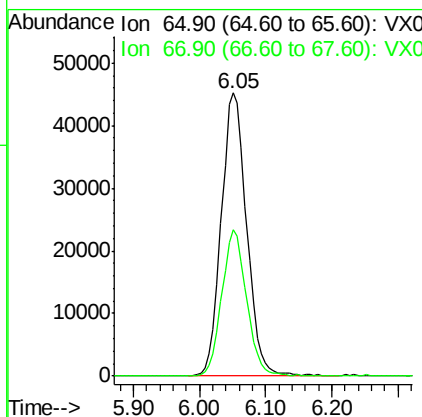
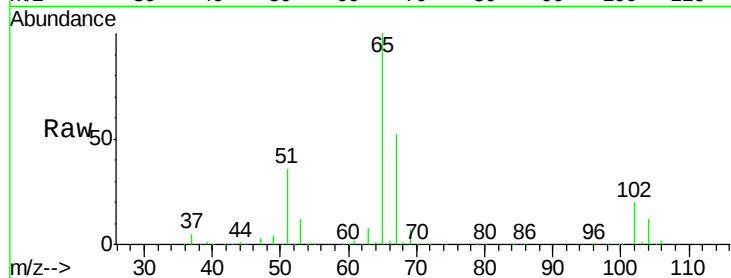
#33
 1,2-Dichloroethane-d4
 Concen: 46.928 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX012535.D
 Acq: 19 Sep 2019 17:54

Instrument :
 MSVOA_X
 ClientSampled :
 Z2-0157DL

Tot Ion	Ratio	Resp	Lower	Upper
65	100	120456		
67	50.2	0.0	101.2	

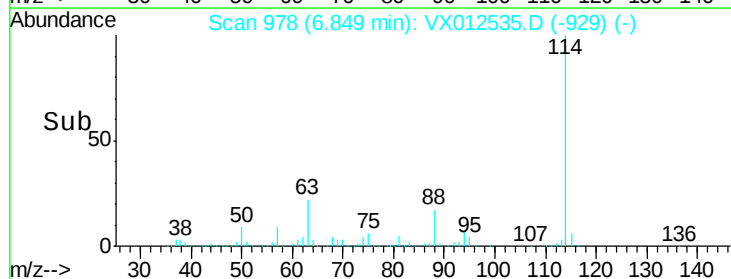
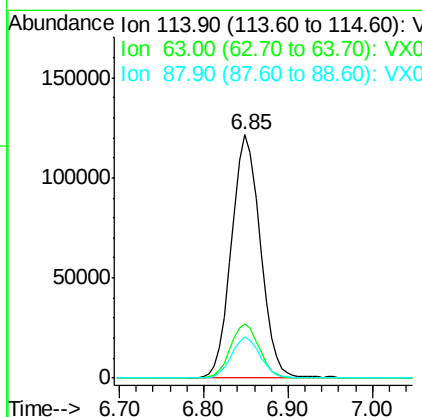
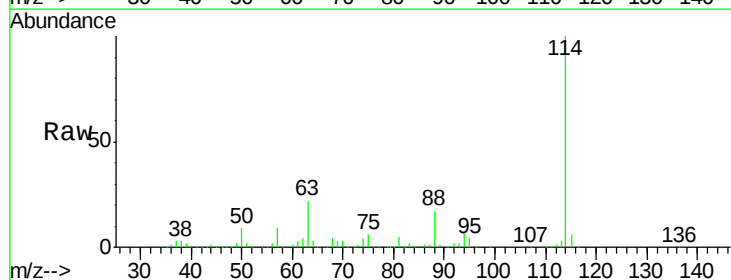
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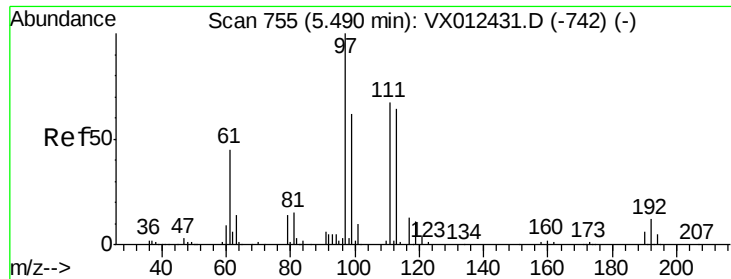
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX012535.D
 Acq: 19 Sep 2019 17:54

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	282995		
63	22.4	0.0	43.2	
88	16.8	0.0	33.2	





#35

Dibromofluoromethane

Concen: 49.157 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX012535.D

Acq: 19 Sep 2019 17:54

Instrument :

MSVOA_X

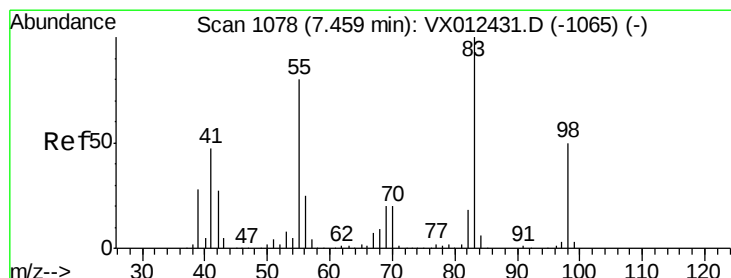
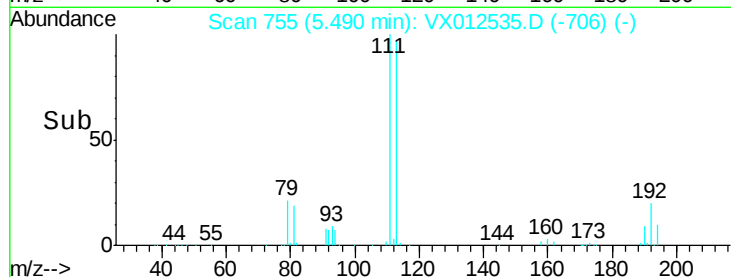
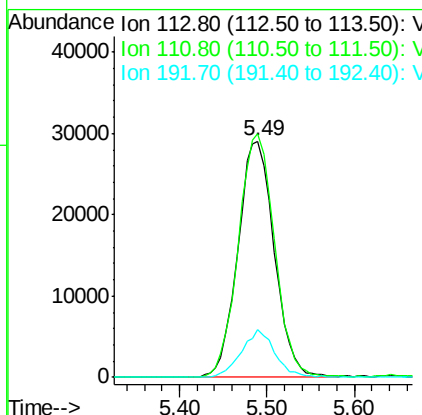
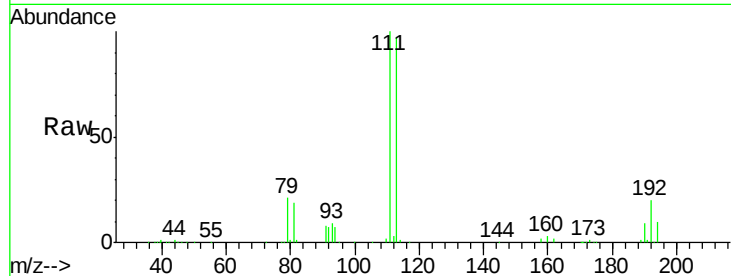
ClientSampleId :

Z2-0157DL

Tot Ion:	113	Resp:	84199
Ion	Ratio	Lower	Upper
113	100		
111	102.8	83.4	125.2
192	18.5	14.4	21.6

Manual Integrations
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#39

Methylcyclohexane

Concen: 17.915 ug/l

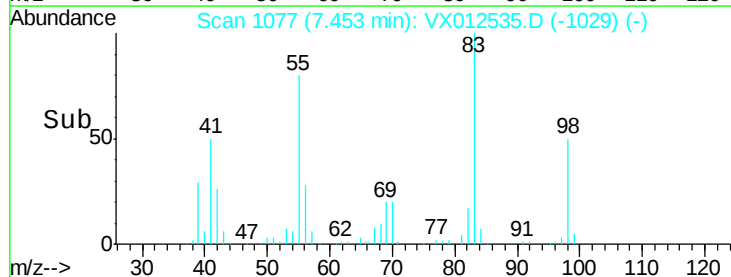
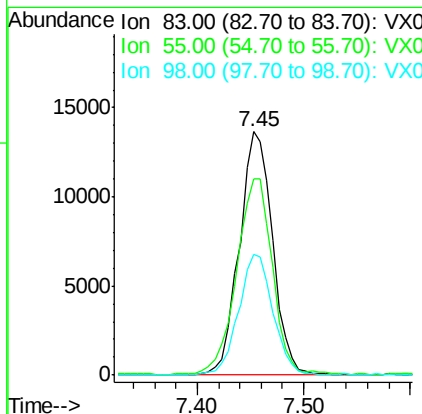
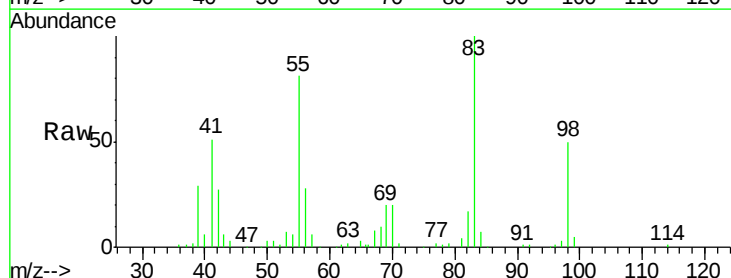
RT: 7.45 min Scan# 1077

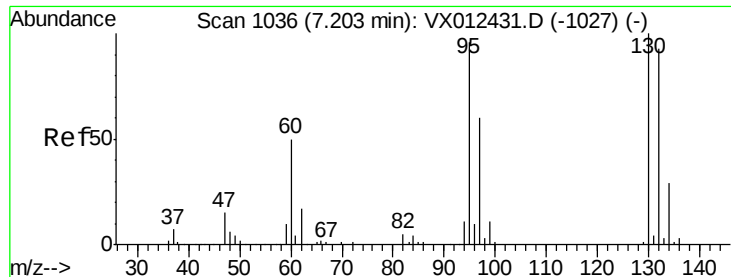
Delta R.T. -0.01 min

Lab File: VX012535.D

Acq: 19 Sep 2019 17:54

Tgt Ion:	83	Resp:	29954
Ion	Ratio	Lower	Upper
83	100		
55	80.2	64.4	96.6
98	49.8	40.1	60.1





#44

Trichloroethene

Concen: 6.888 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX012535.D

Acq: 19 Sep 2019 17:54

Instrument :

MSVOA_X

ClientSampled :

Z2-0157DL

Tot Ion:130 Resp: 9910

Ion Ratio Lower Upper

130 100

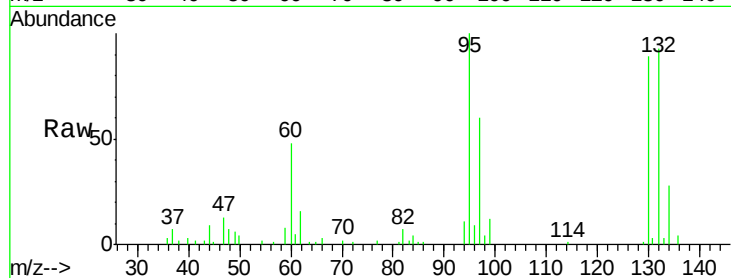
95 112.2 0.0 193.0

Manual Integrations

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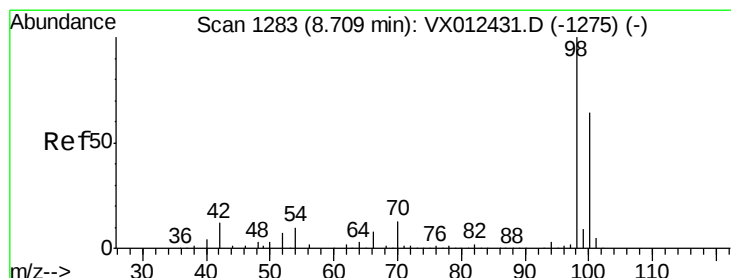
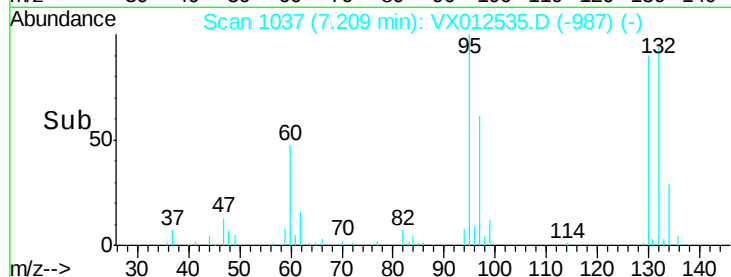
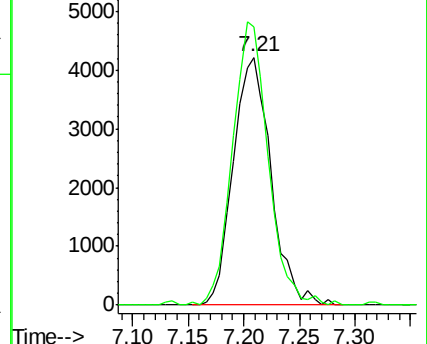
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Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 51.994 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012535.D

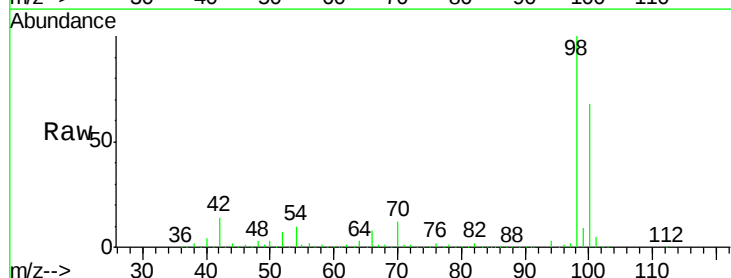
Acq: 19 Sep 2019 17:54

Tgt Ion: 98 Resp: 329645

Ion Ratio Lower Upper

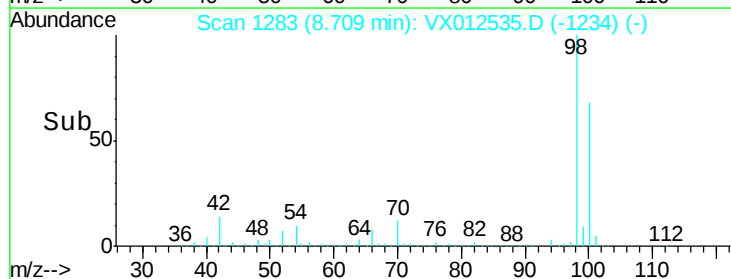
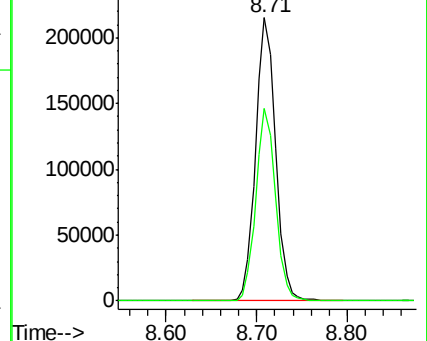
98 100

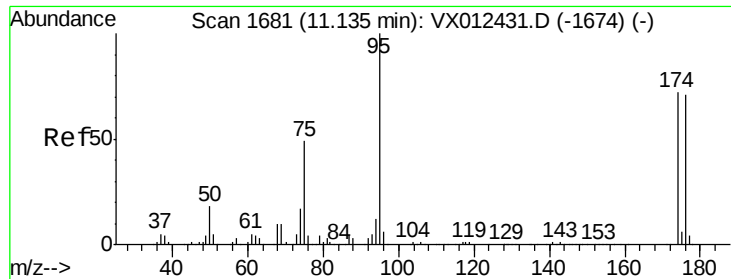
100 66.7 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.655 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012535.D

Acq: 19 Sep 2019 17:54

Instrument :

MSVOA_X

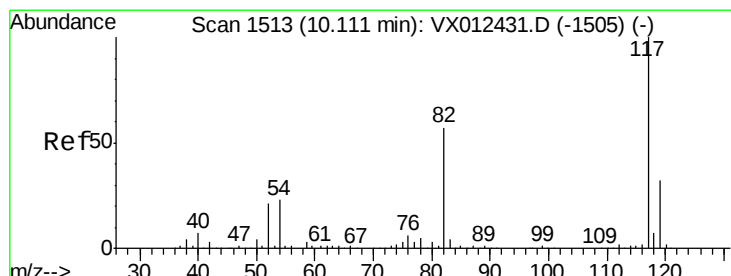
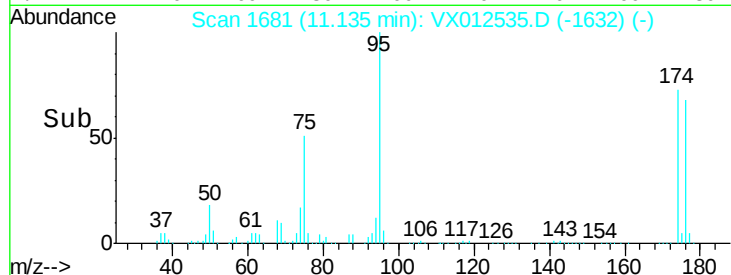
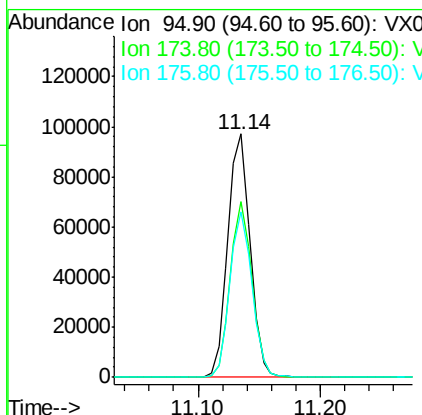
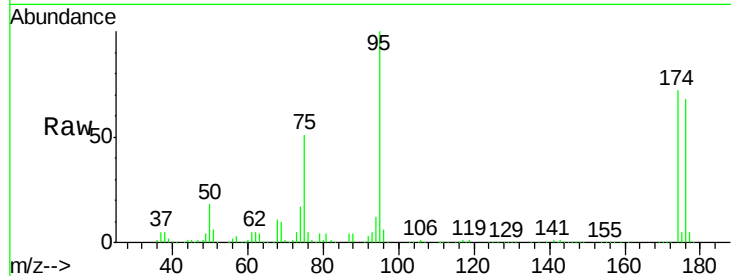
ClientSampleId :

Z2-0157DL

Tot Ion:	95	Resp:	122817
Ion Ratio	Lower	Upper	
95	100		
174	70.3	0.0	140.0
176	67.3	0.0	135.4

Manual Integrations
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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

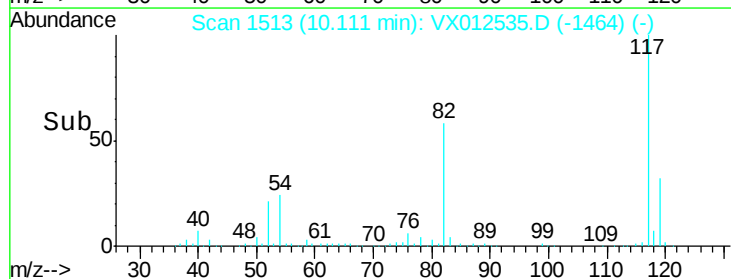
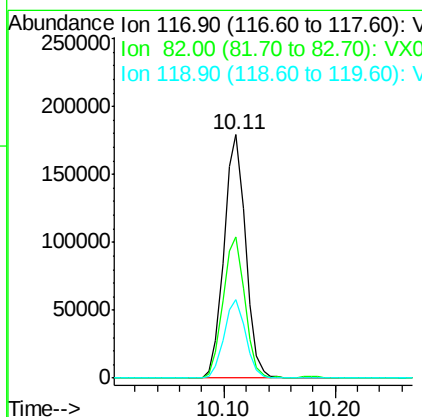
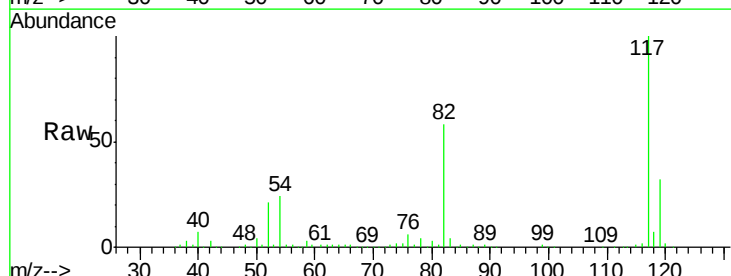
RT: 10.11 min Scan# 1513

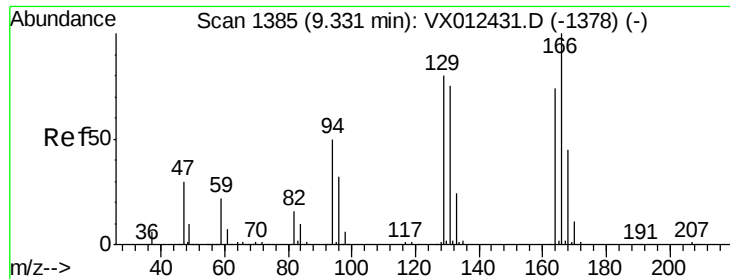
Delta R.T. -0.00 min

Lab File: VX012535.D

Acq: 19 Sep 2019 17:54

Tgt Ion:	117	Resp:	240814
Ion Ratio	Lower	Upper	
117	100		
82	57.9	45.9	68.9
119	32.1	25.3	37.9





#64

Tetrachloroethene

Concen: 24.430 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VX012535.D

Acq: 19 Sep 2019 17:54

Instrument :

MSVOA_X

ClientSampleId :

Z2-0157DL

Tot Ion:164 Resp: 26958

Ion Ratio Lower Upper

164 100

166 126.8 107.8 161.6

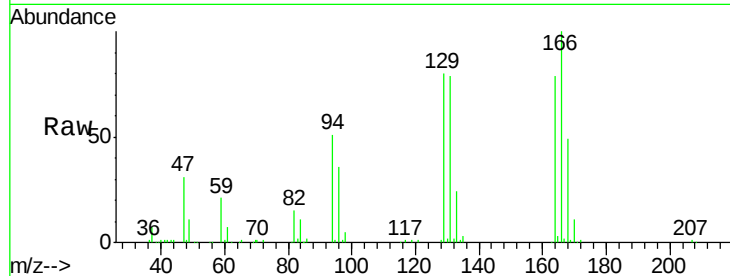
129 102.0 86.2 129.2

131 100.3 80.4 120.6

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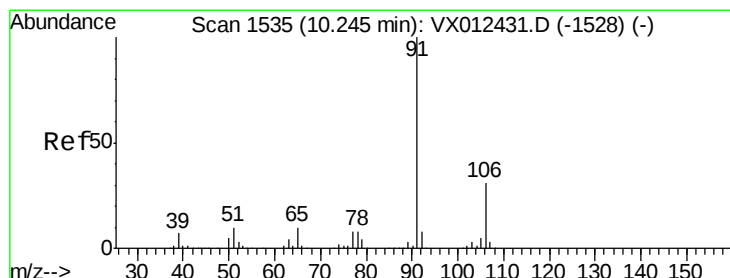
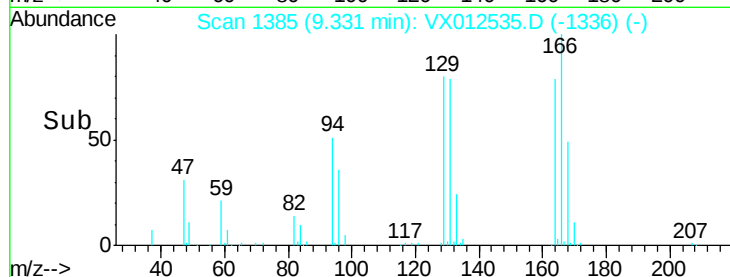
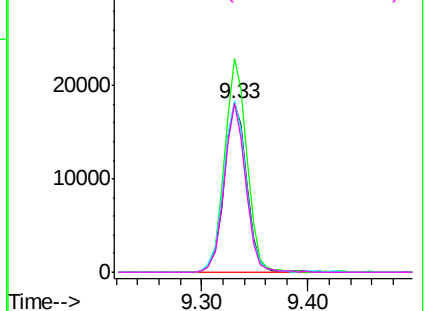


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#67

Ethyl Benzene

Concen: 7.632 ug/l

RT: 10.25 min Scan# 1535

Delta R.T. -0.00 min

Lab File: VX012535.D

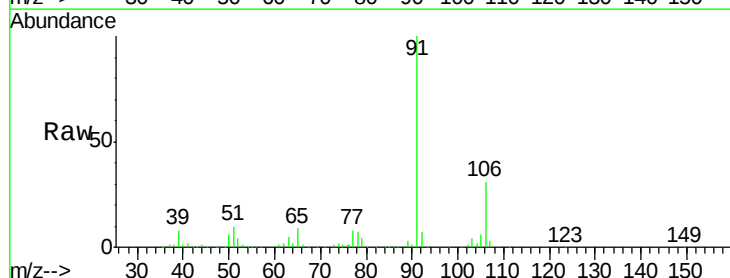
Acq: 19 Sep 2019 17:54

Tgt Ion: 91 Resp: 52113

Ion Ratio Lower Upper

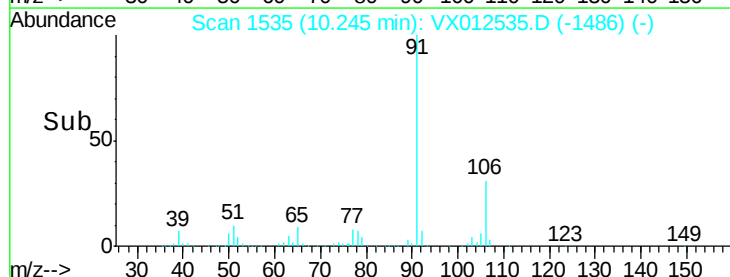
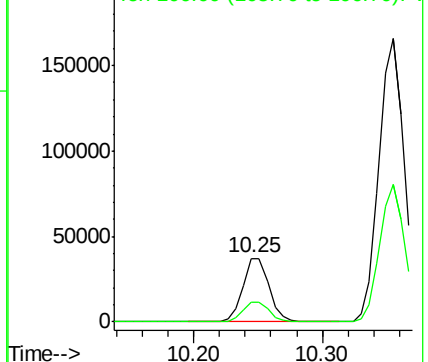
91 100

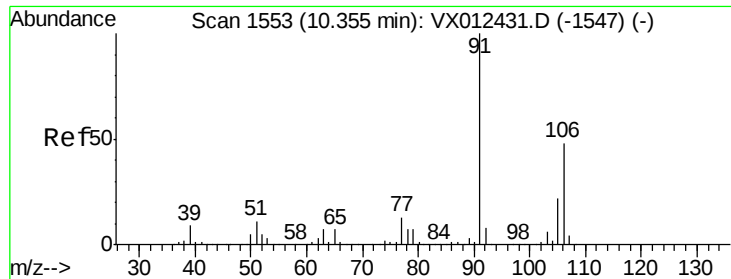
106 30.8 24.6 37.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V





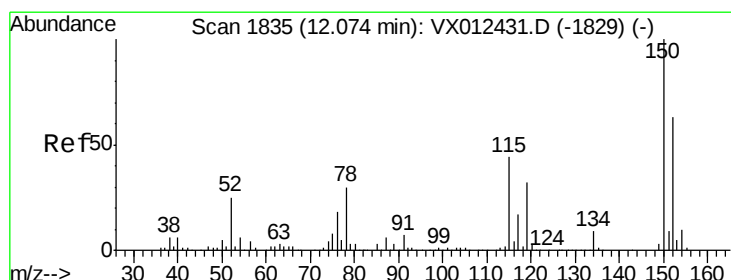
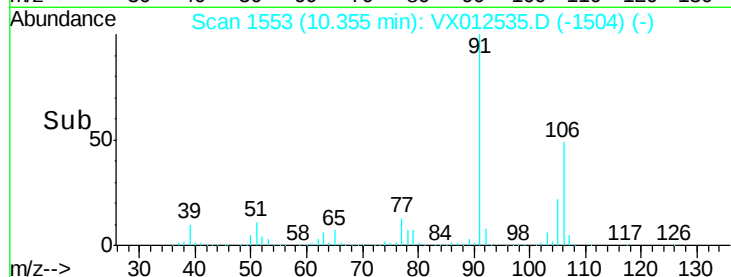
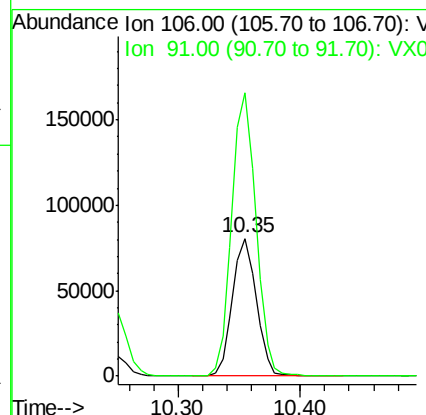
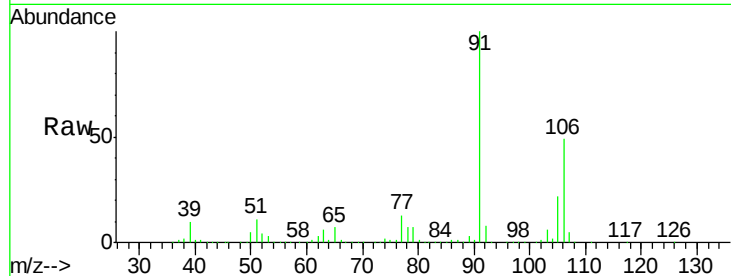
#68
m/p-Xvlenes
Concen: 43.911 ug/l
RT: 10.35 min Scan# 1553
Delta R.T. -0.00 min
Lab File: VX012535.D
Acq: 19 Sep 2019 17:54

Instrument :
MSVOA_X
ClientSampled :
Z2-0157DL

Tot Ion	Ratio	Resp	Lower	Upper
106	100	109101		
91	207.9	166.6	250.0	

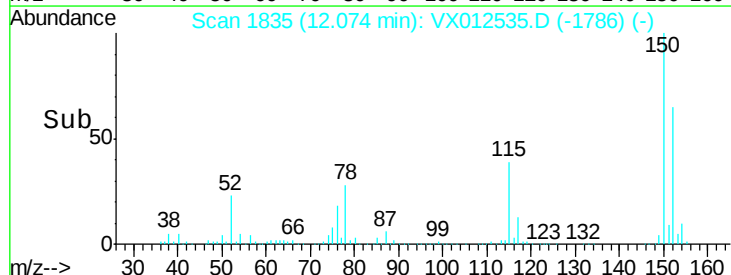
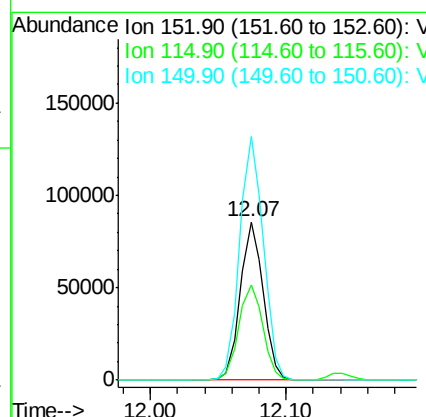
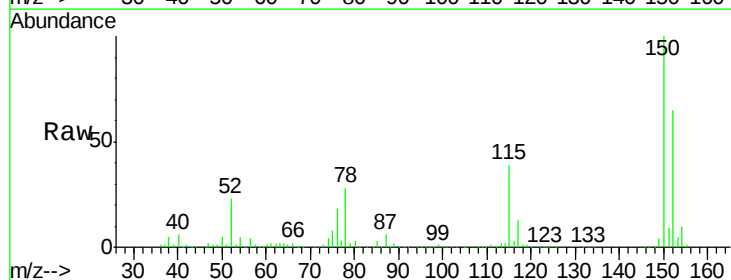
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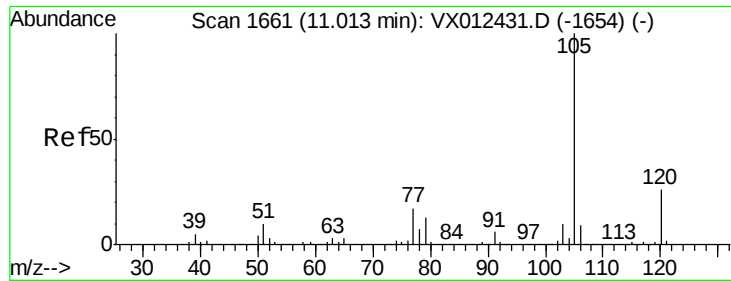
MMDadoda
9/20/2019 10:45:37 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX012535.D
Acq: 19 Sep 2019 17:54

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	100702		
115	62.9	44.1	132.3	
150	159.1	0.0	343.8	





#73

Isopropylbenzene

Concen: 9.815 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VX012535.D

Acq: 19 Sep 2019 17:54

Instrument :

MSVOA_X

ClientSampled :

Z2-0157DL

Tot Ion: 105 Resp: 62018

Ion Ratio Lower Upper

105 100

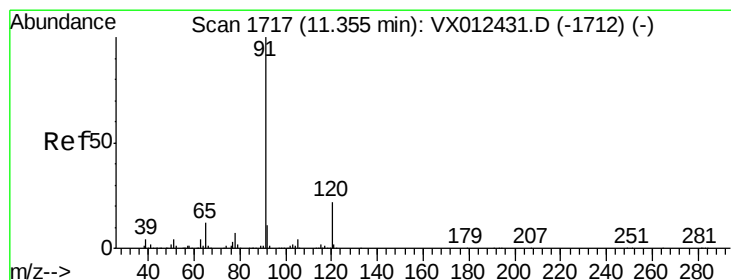
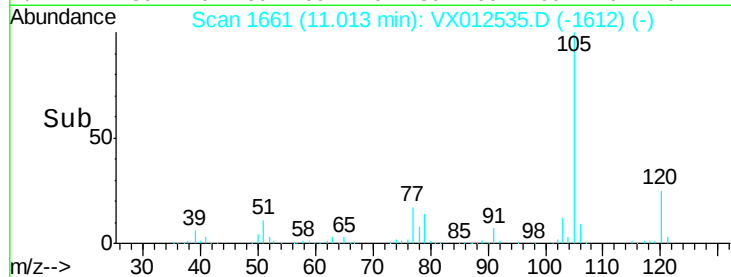
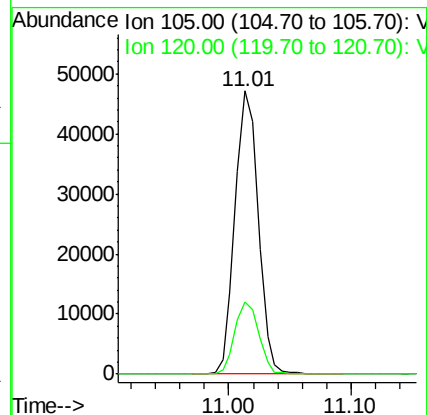
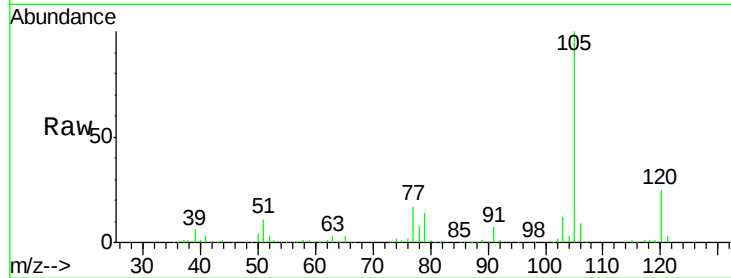
120 26.5 12.9 38.7

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#78

n-propylbenzene

Concen: 8.636 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. -0.00 min

Lab File: VX012535.D

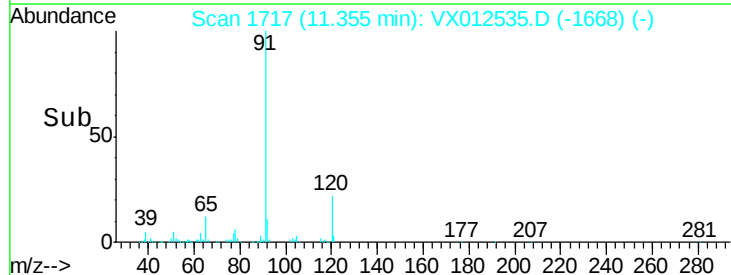
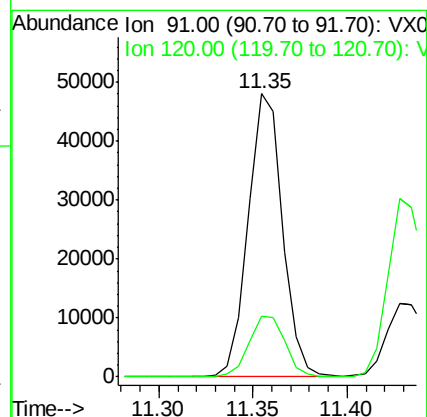
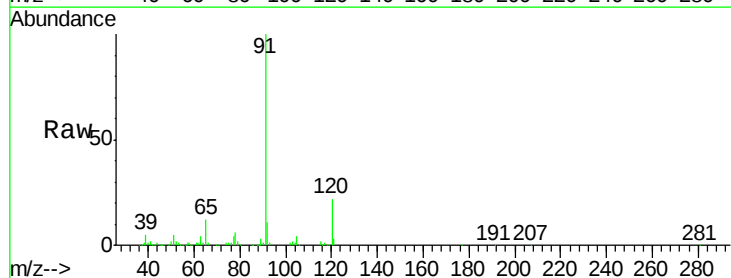
Acq: 19 Sep 2019 17:54

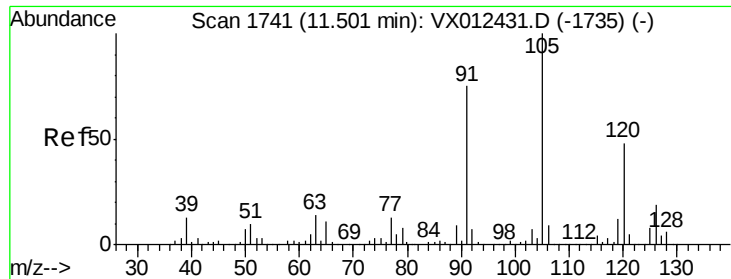
Tgt Ion: 91 Resp: 60819

Ion Ratio Lower Upper

91 100

120 22.5 11.3 33.8





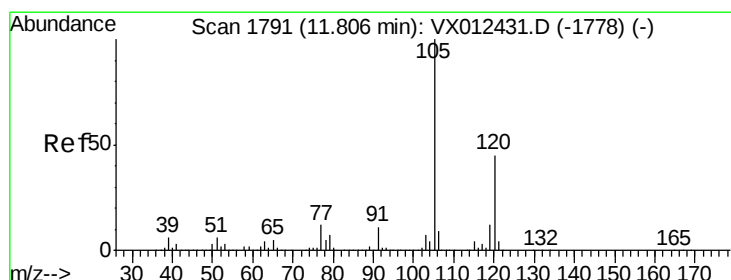
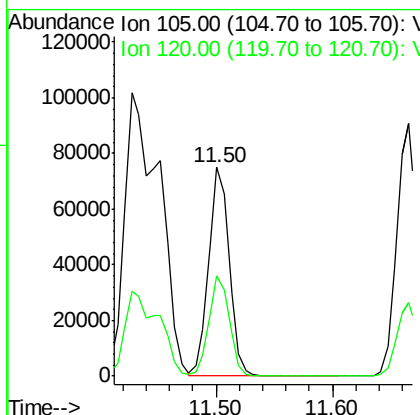
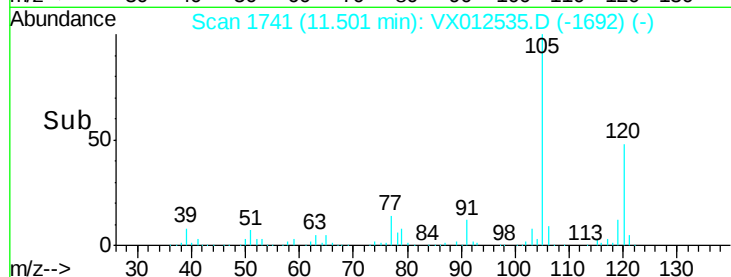
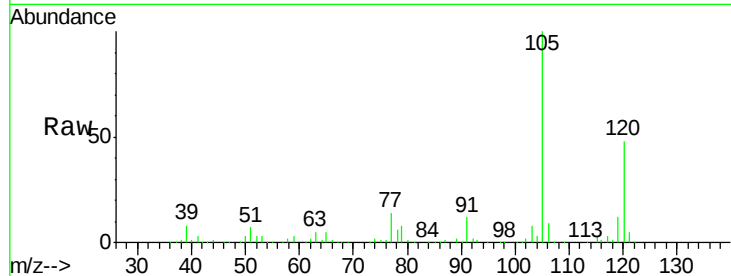
#80
 1,3,5-Trimethylbenzene
 Concen: 16.993 ug/l
 RT: 11.50 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VX012535.D
 Acq: 19 Sep 2019 17:54

Instrument :
 MSVOA_X
 ClientSampled :
 Z2-0157DL

Tot Ion:105 Resp: 91567
 Ion Ratio Lower Upper
 105 100
 120 47.7 24.3 72.8

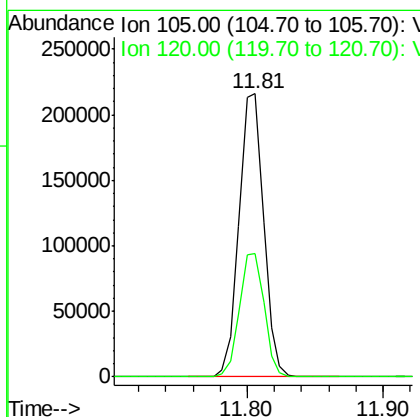
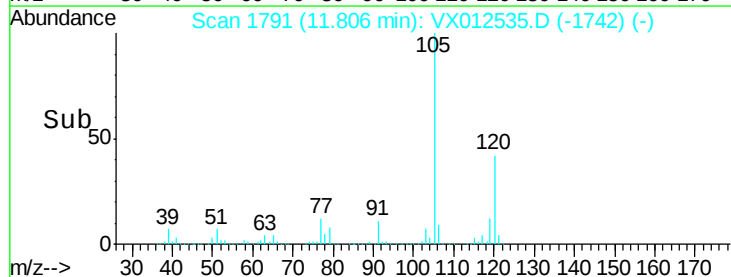
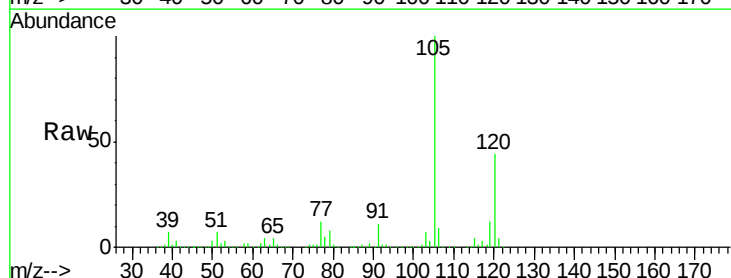
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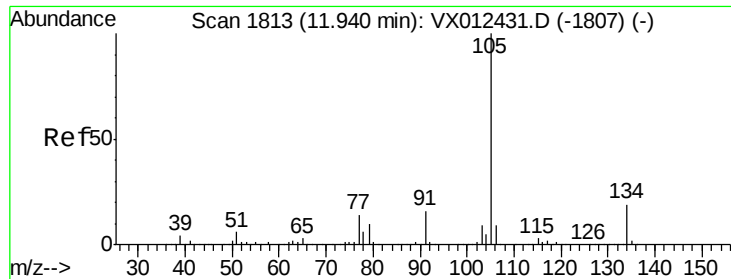
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#84
 1,2,4-Trimethylbenzene
 Concen: 49.348 ug/l
 RT: 11.81 min Scan# 1791
 Delta R.T. -0.00 min
 Lab File: VX012535.D
 Acq: 19 Sep 2019 17:54

Tgt Ion:105 Resp: 273036
 Ion Ratio Lower Upper
 105 100
 120 44.1 22.2 66.6





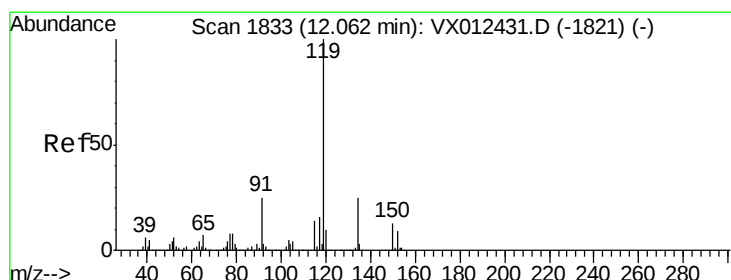
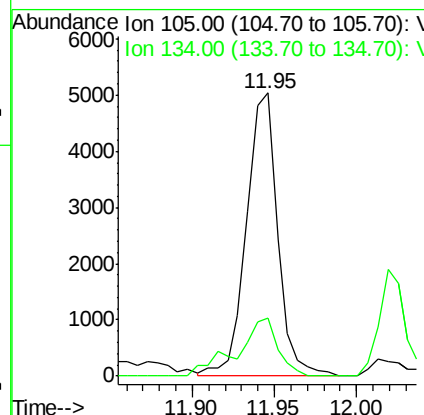
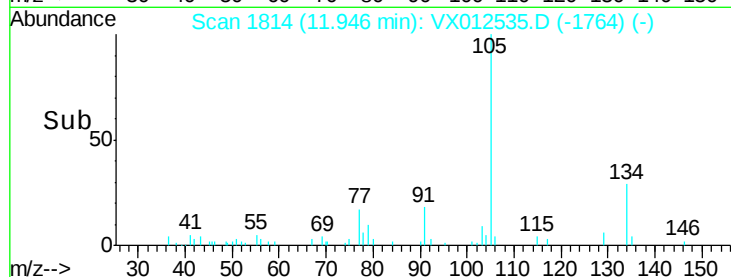
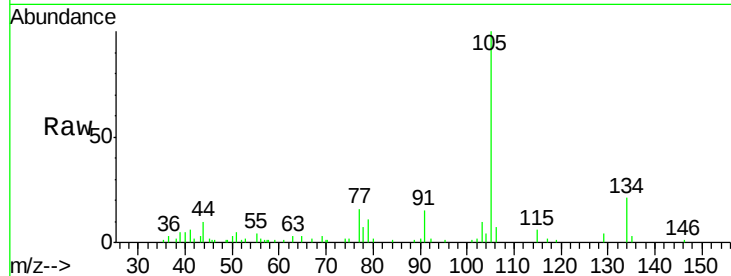
#85
 sec-Butylbenzene
 Concen: 1.049 ug/l m
 RT: 11.95 min Scan# 1814
 Delta R.T. 0.01 min
 Lab File: VX012535.D
 Acq: 19 Sep 2019 17:54

Instrument :
 MSVOA_X
 ClientSampleId :
 Z2-0157DL

Tot Ion:105 Resp: 6672
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.8 29.4#

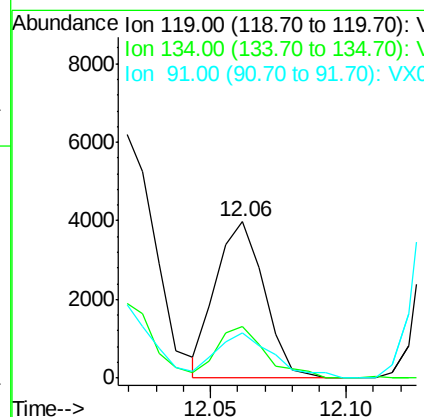
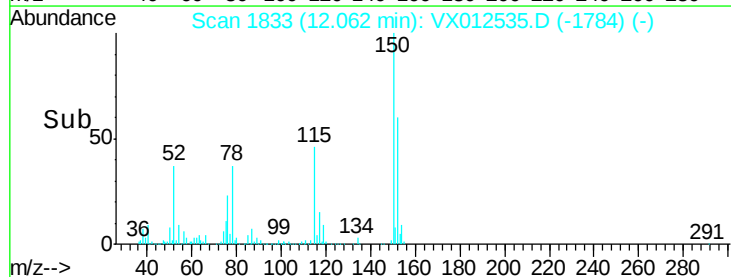
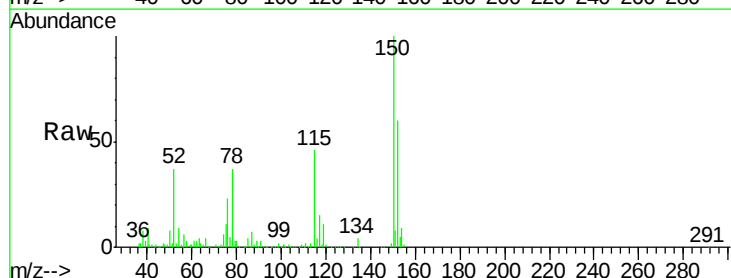
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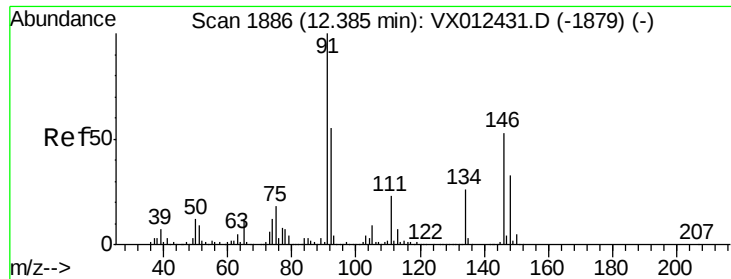
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#86
 p-Isopropyltoluene
 Concen: 0.844 ug/l
 RT: 12.06 min Scan# 1833
 Delta R.T. -0.00 min
 Lab File: VX012535.D
 Acq: 19 Sep 2019 17:54

Tgt Ion:119 Resp: 4933
 Ion Ratio Lower Upper
 119 100
 134 33.5 12.7 38.1
 91 33.7 12.8 38.4





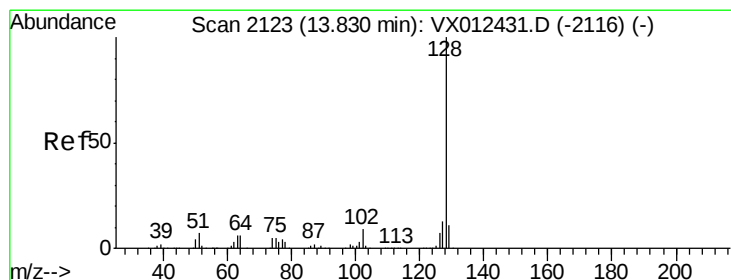
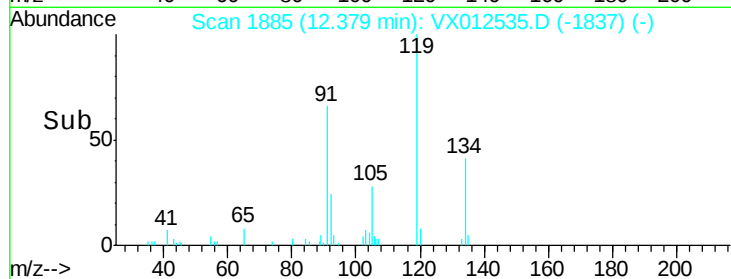
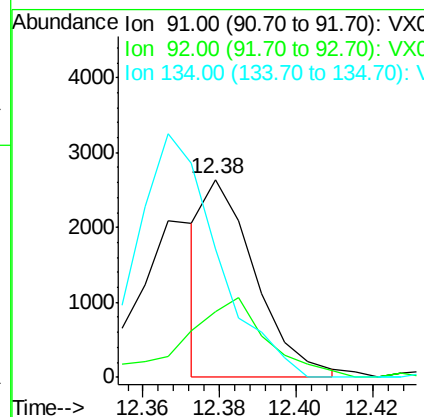
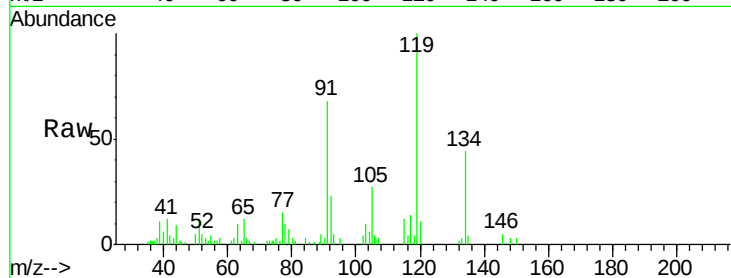
#89
n-Butylbenzene
Concen: 0.464 ug/l m
RT: 12.38 min Scan# 1885
Delta R.T. -0.01 min
Lab File: VX012535.D
Acq: 19 Sep 2019 17:54

Instrument :
MSVOA_X
ClientSampled :
Z2-0157DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	67.1	27.7	83.0
134	196.1	12.9	38.6

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#95
Naphthalene
Concen: 4.655 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. -0.00 min
Lab File: VX012535.D
Acq: 19 Sep 2019 17:54

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.2	15.4
129	11.4	8.8	13.2

