

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111419\
 Data File : VX013423.D
 Acq On : 14 Nov 2019 15:36
 Operator : JC/SP
 Sample : K5804-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TE-MW-QA-2

Manual Integrations
 APPROVED

MMDadoda
 11/15/2019 9:21:25 AM

Quant Time: Nov 15 08:46:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	107705	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	607438	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	524678	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	240434	30.23	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.77%
60) 4-Bromofluorobenzene	11.14	95	236812	28.08	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.60%
63) Toluene-d8	8.71	98	715809	30.17	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.57%

Target Compounds

					Ovalue
22) cis-1,2-Dichloroethene	4.58	96	15518	1.915 ug/l	86
24) Methyl tert-Butyl Ether	3.19	73	1699144	77.180 ug/l	100
25) Chloroform	5.20	83	10779m	0.858 ug/l	
36) 1,2-Dichloroethane	6.18	62	9349	0.949 ug/l #	81
37) Trichloroethene	7.21	130	138964	18.432 ug/l	97
61) Tetrachloroethene	9.33	164	292150	45.155 ug/l	96
66) Ethyl Benzene	10.25	91	48245	1.503 ug/l	97
67) m/p-Xylenes	10.35	106	19149	1.546 ug/l	99
74) n-propylbenzene	11.35	91	26516	0.741 ug/l	97
76) 1,3,5-Trimethylbenzene	11.50	105	21278	0.804 ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	25997	0.985 ug/l	98
91) Naphthalene	13.83	128	57481	1.803 ug/l	98

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

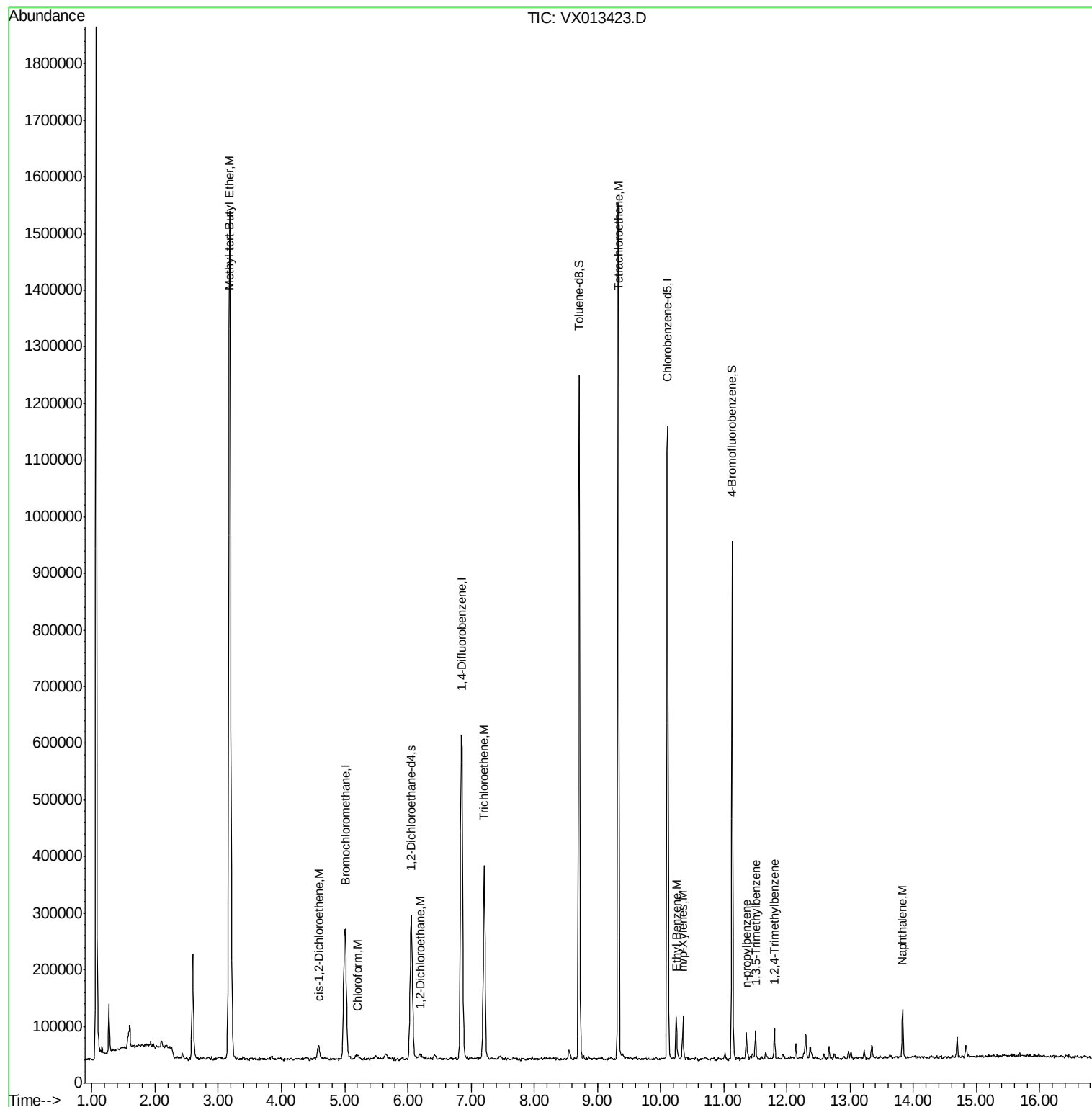
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX111419\
Data File : VX013423.D
Acq On : 14 Nov 2019 15:36
Operator : JC/SP
Sample : K5804-04
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 15 Sample Multiplier: 1

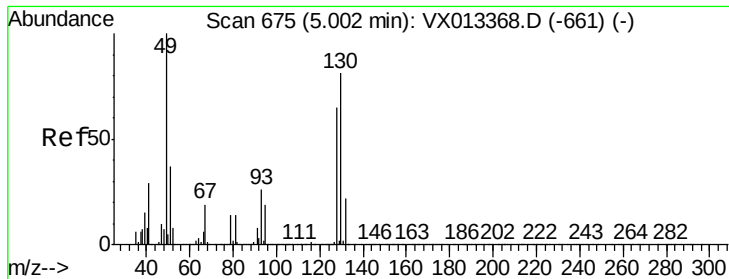
Instrument :
MSVOA_X
ClientSampleId :
TE-MW-QA-2

Manual Integrations
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11/15/2019 9:21:25 AM

Quant Time: Nov 15 08:46:08 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Nov 12 01:16:13 2019
Response via : Initial Calibration





#1

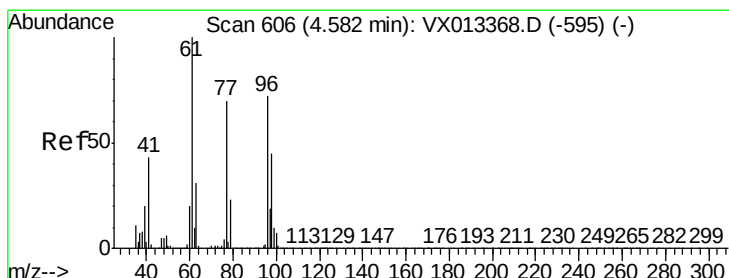
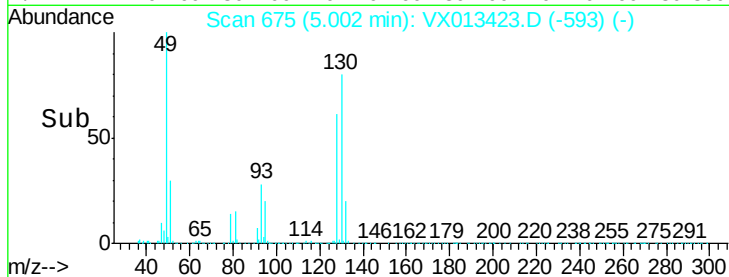
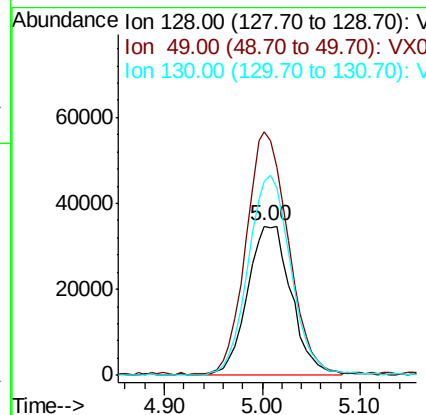
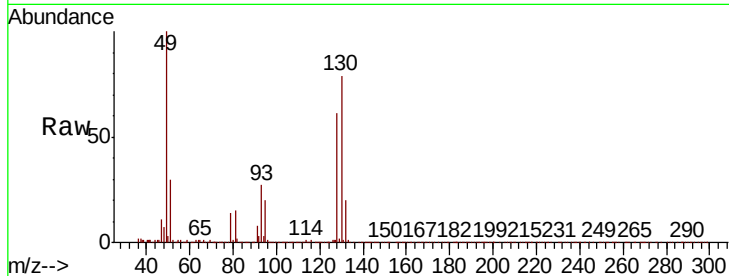
Bromochloromethane
 Concen: 30.000 ug/l
 RT: 5.00 min Scan# 675
 Delta R.T. 0.00 min
 Lab File: VX013423.D
 Acq: 14 Nov 2019 15:36

Instrument :
 MSVOA_X
 ClientSampleId :
 TE-MW-QA-2

Tot Ion	Ratio	Resp	Lower	Upper
128	100	107705		
49	155.6	0.0	388.3	
130	131.4	0.0	318.5	

Manual Integrations
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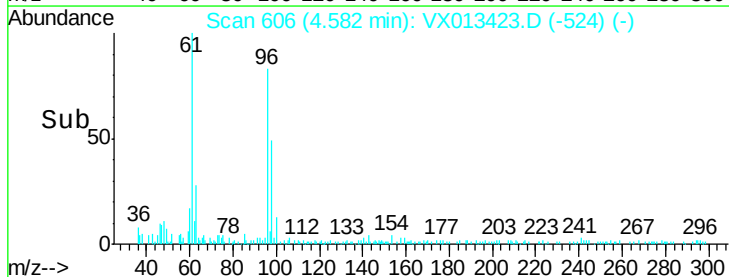
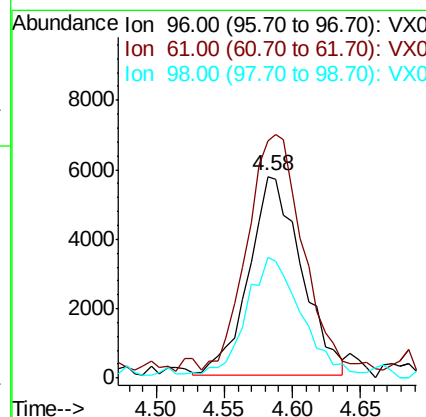
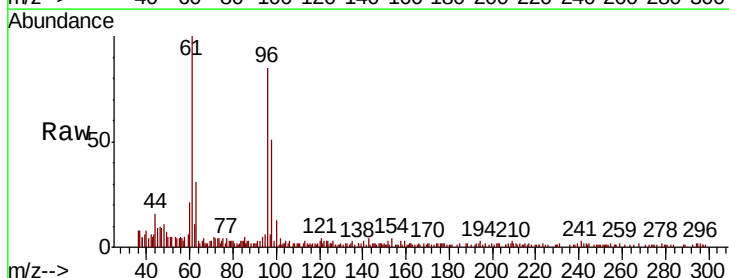
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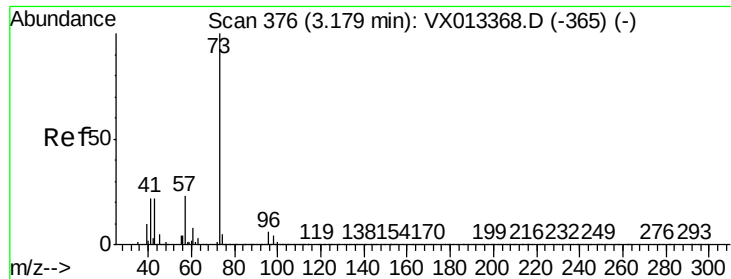


#22

cis-1,2-Dichloroethene
 Concen: 1.915 ug/l
 RT: 4.58 min Scan# 606
 Delta R.T. 0.00 min
 Lab File: VX013423.D
 Acq: 14 Nov 2019 15:36

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	15518		
61	123.8	117.0	175.6	
98	60.6	51.1	76.7	





#24

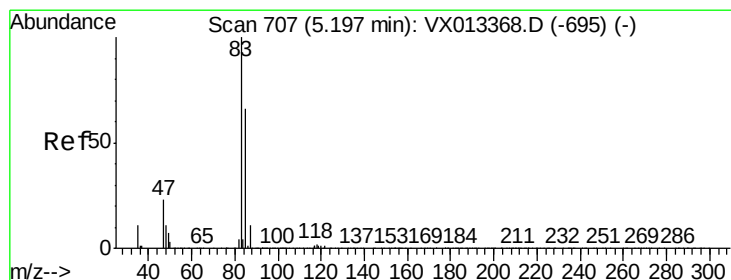
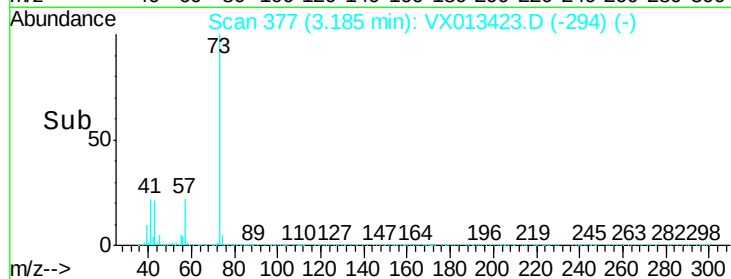
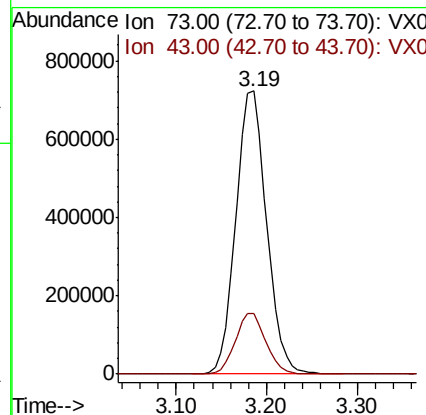
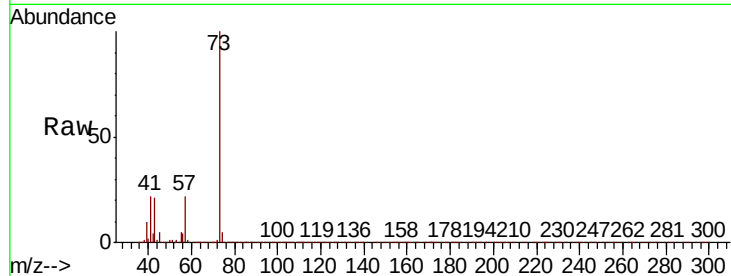
Methvl tert-Butvl Ether
 Concen: 77.180 ug/l
 RT: 3.19 min Scan# 377
 Delta R.T. 0.01 min
 Lab File: VX013423.D
 Acq: 14 Nov 2019 15:36

Instrument :
 MSVOA_X
 ClientSampleId :
 TE-MW-QA-2

Tot Ion	Ratio	Lower	Upper
73	100		
43	21.4	17.0	25.6

Manual Integrations
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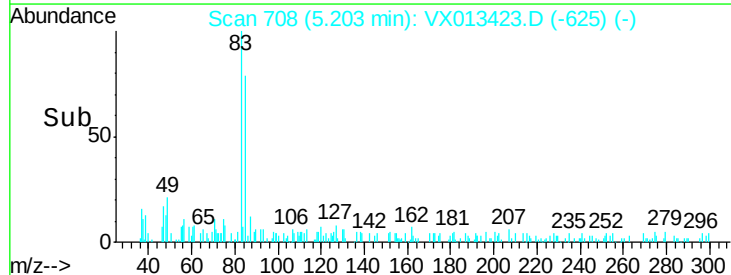
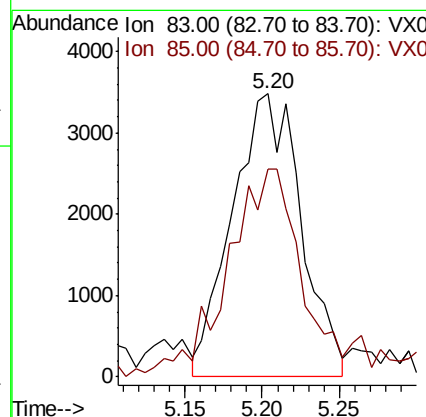
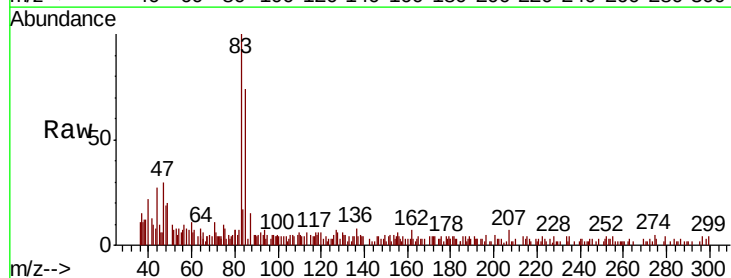
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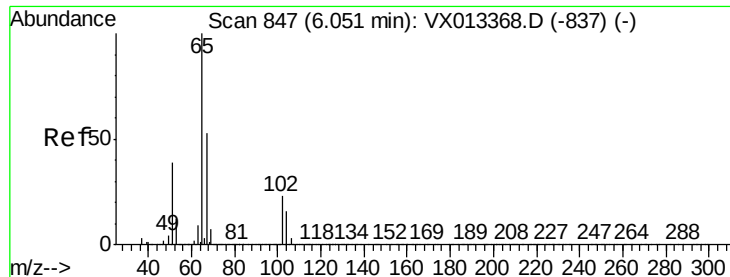


#25

Chloroform
 Concen: 0.858 ug/l m
 RT: 5.20 min Scan# 708
 Delta R.T. 0.01 min
 Lab File: VX013423.D
 Acq: 14 Nov 2019 15:36

Tgt Ion	Ratio	Lower	Upper
83	100		
85	73.6	52.4	78.6





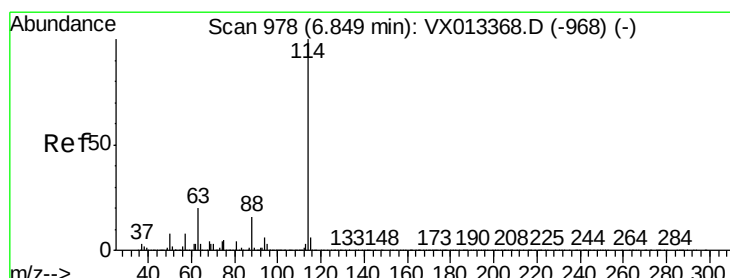
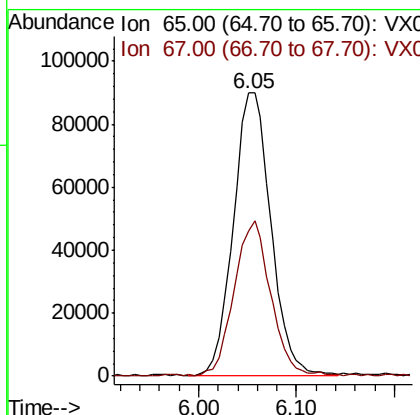
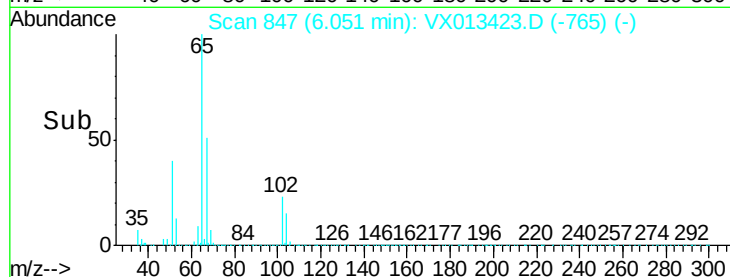
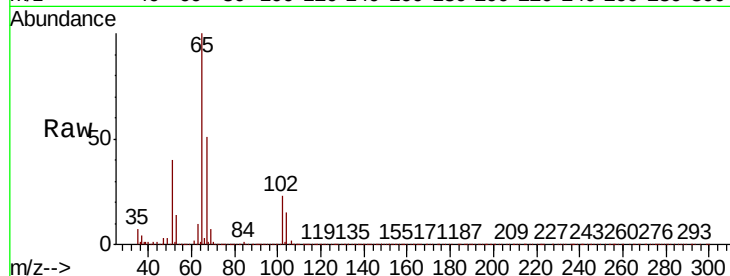
#27
 1,2-Dichloroethane-d4
 Concen: 30.231 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX013423.D
 Acq: 14 Nov 2019 15:36

Instrument :
 MSVOA_X
 ClientSampleId :
 TE-MW-QA-2

Tot Ion	Ratio	Lower	Upper
65	100		
67	52.5	41.0	61.6

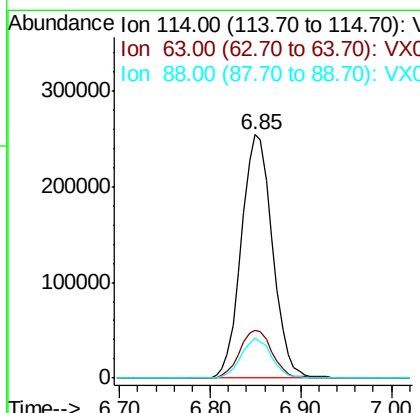
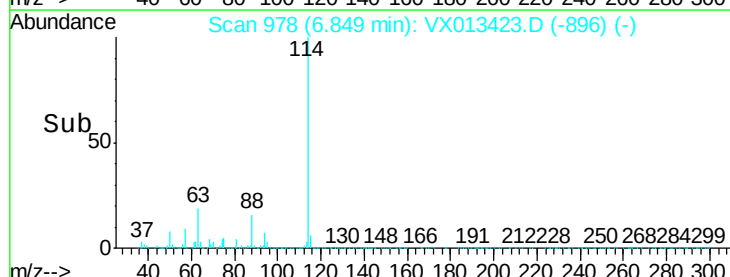
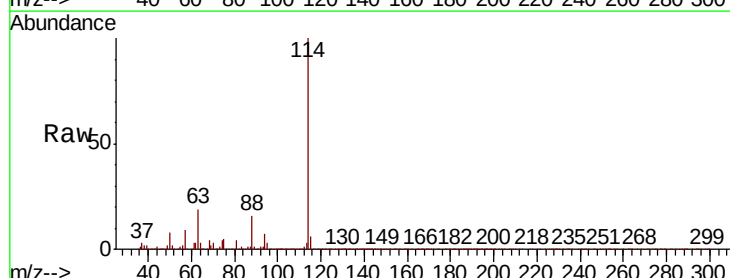
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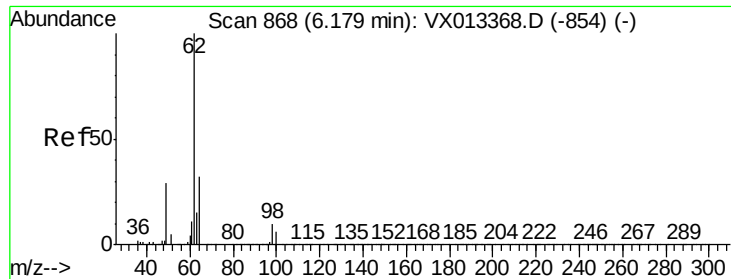
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#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX013423.D
 Acq: 14 Nov 2019 15:36

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.0	16.1	24.1
88	15.8	12.3	18.5





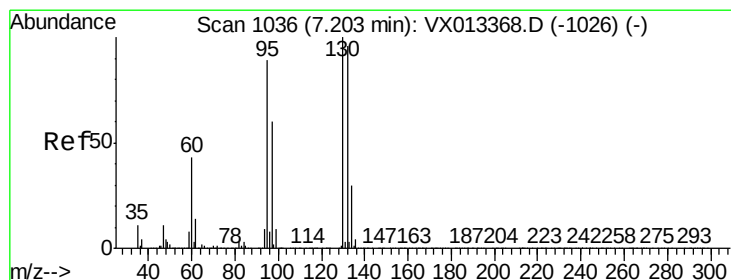
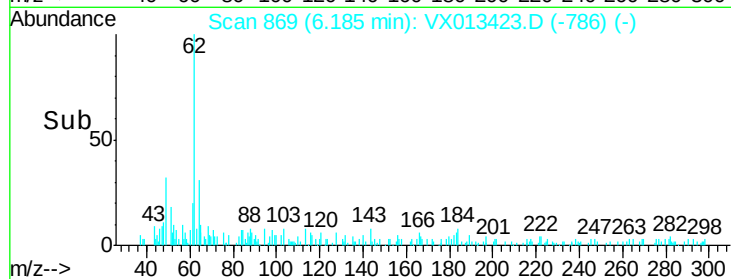
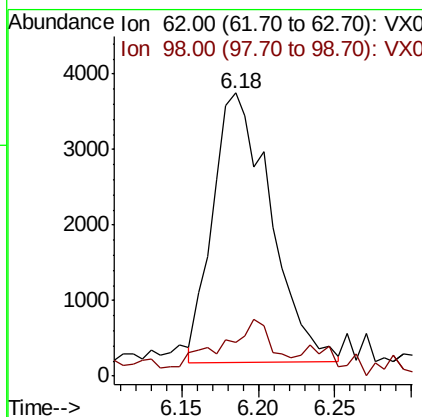
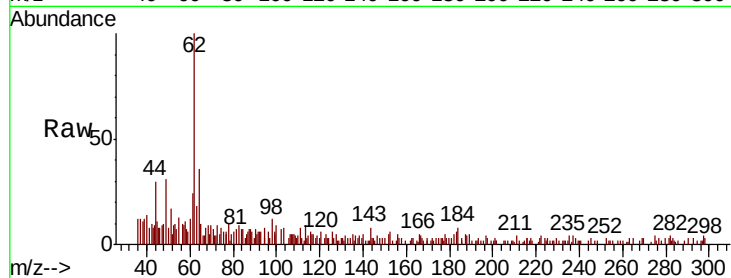
#36
1,2-Dichloroethane
Concen: 0.949 ug/l
RT: 6.18 min Scan# 869
Delta R.T. 0.01 min
Lab File: VX013423.D
Acq: 14 Nov 2019 15:36

Instrument :
MSVOA_X
ClientSampleId :
TE-MW-QA-2

Tot Ion	Ratio	Lower	Upper
62	100		
98	3.0	8.2	12.2#

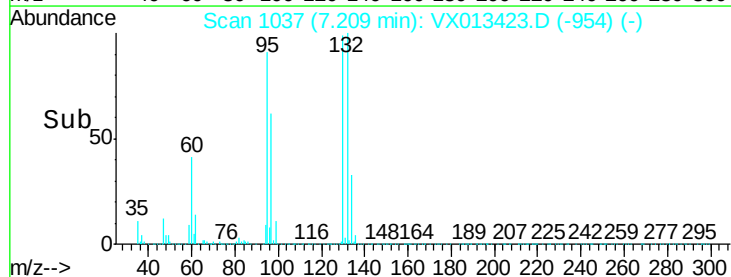
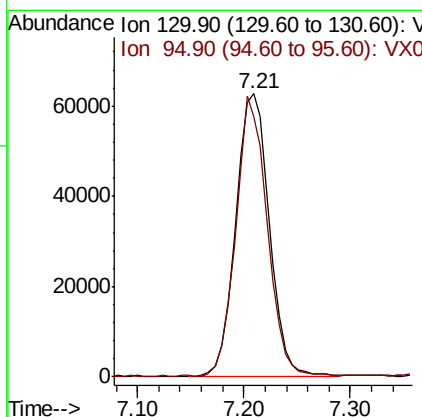
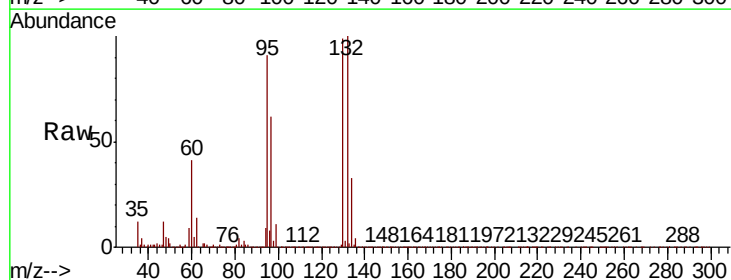
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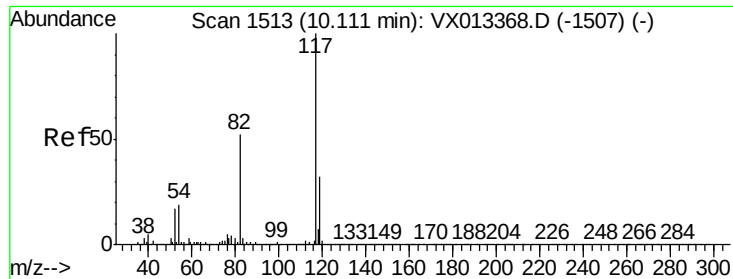
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#37
Trichloroethene
Concen: 18.432 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. 0.01 min
Lab File: VX013423.D
Acq: 14 Nov 2019 15:36

Tgt Ion	Ratio	Lower	Upper
130	100		
95	91.7	71.3	106.9





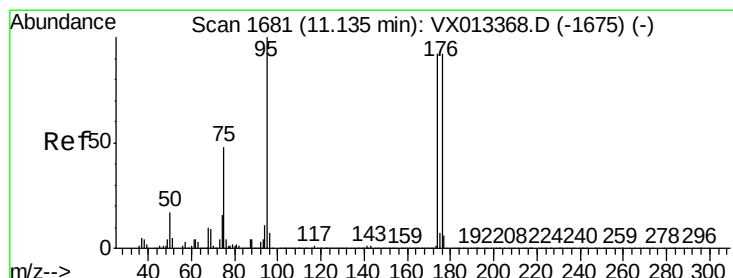
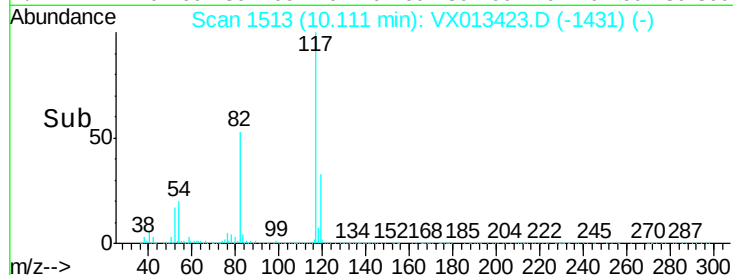
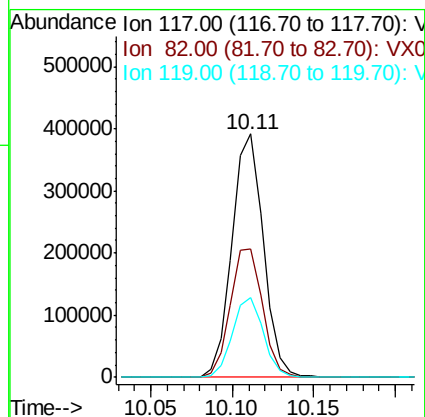
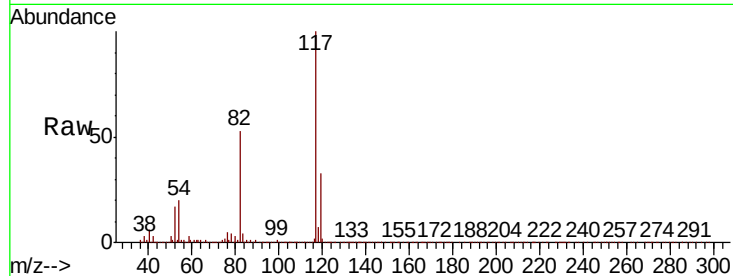
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013423.D
Acq: 14 Nov 2019 15:36

Instrument :
MSVOA_X
ClientSampleId :
TE-MW-QA-2

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.4	43.7	65.5
119	32.4	25.5	38.3

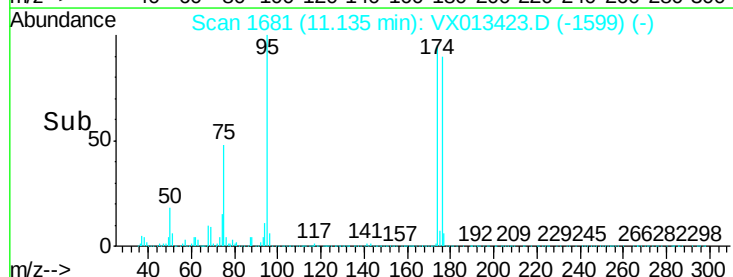
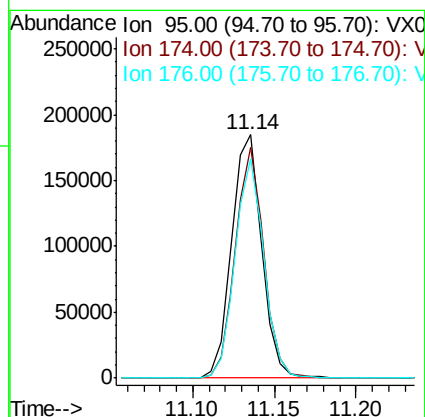
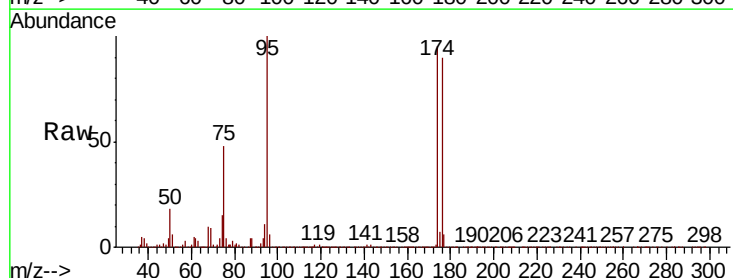
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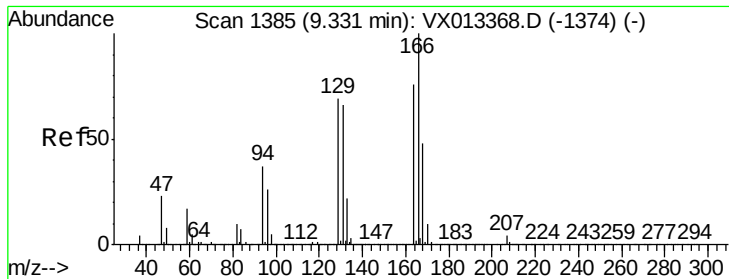
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#60
4-Bromofluorobenzene
Concen: 28.081 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX013423.D
Acq: 14 Nov 2019 15:36

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.8	70.2	105.2
176	86.6	68.3	102.5





#61

Tetrachloroethene

Concen: 45.155 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013423.D

Acq: 14 Nov 2019 15:36

Instrument :

MSVOA_X

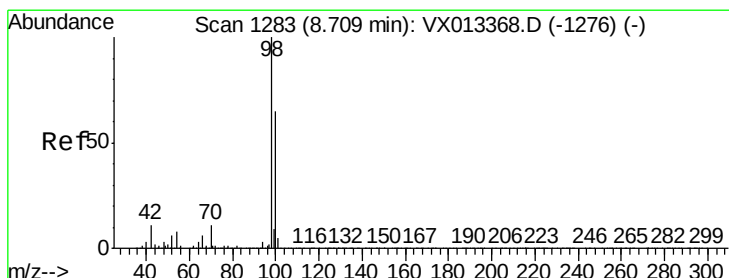
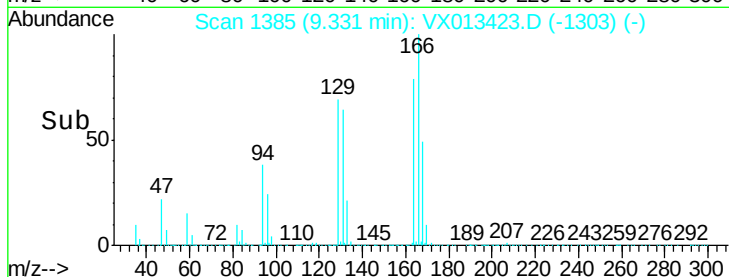
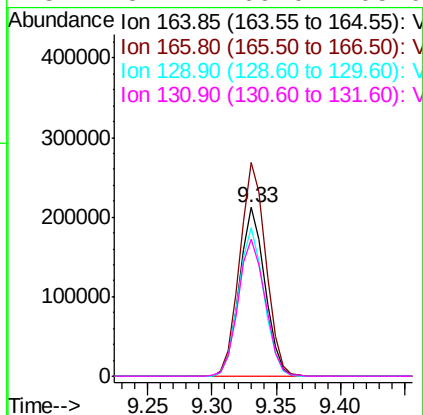
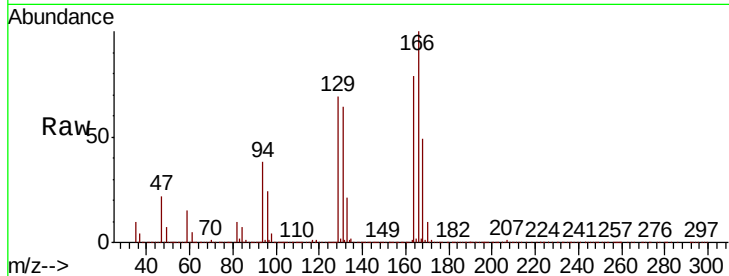
ClientSampleId :

TE-MW-QA-2

Tot Ion	Ratio	Lower	Upper
164	100		
166	126.5	104.9	157.3
129	87.9	72.3	108.5
131	81.4	69.0	103.6

Manual Integrations
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#63

Toluene-d8

Concen: 30.170 ug/l

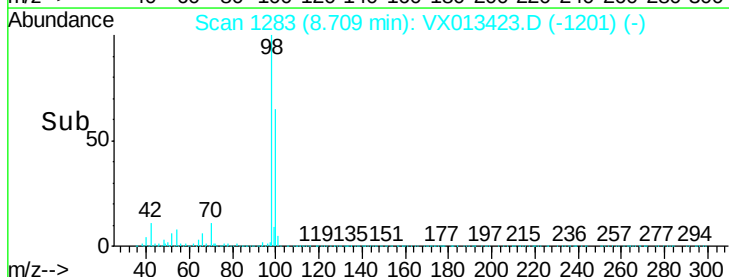
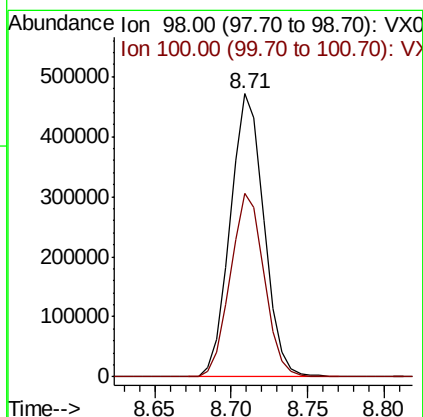
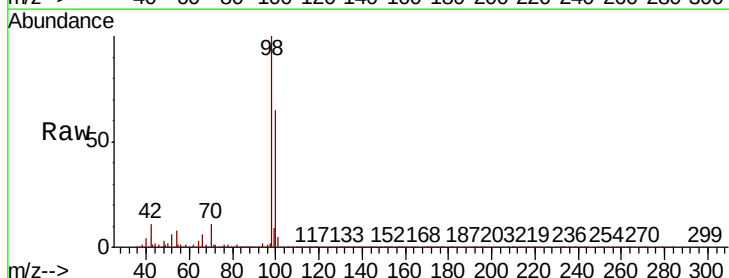
RT: 8.71 min Scan# 1283

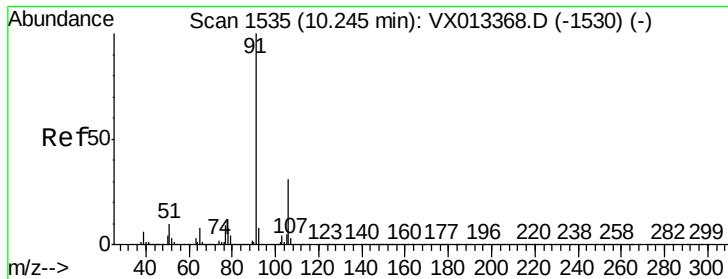
Delta R.T. 0.00 min

Lab File: VX013423.D

Acq: 14 Nov 2019 15:36

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.5	78.7





#66

Ethyl Benzene

Concen: 1.503 ug/l

RT: 10.25 min Scan# 1536

Delta R.T. 0.01 min

Lab File: VX013423.D

Acq: 14 Nov 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

TE-MW-QA-2

Tot Ion: 91 Resp: 48245

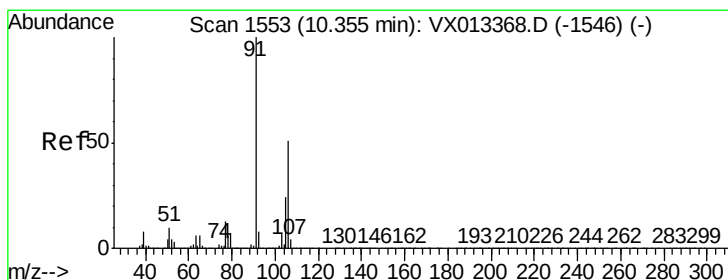
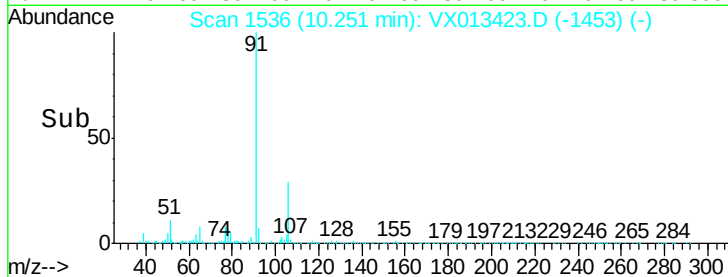
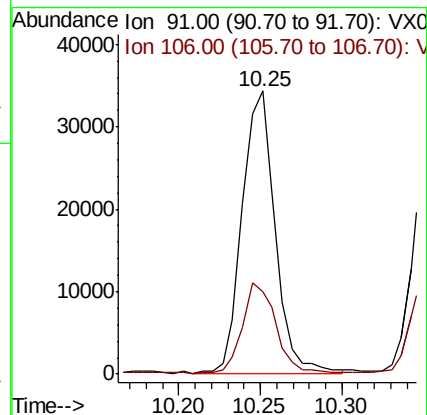
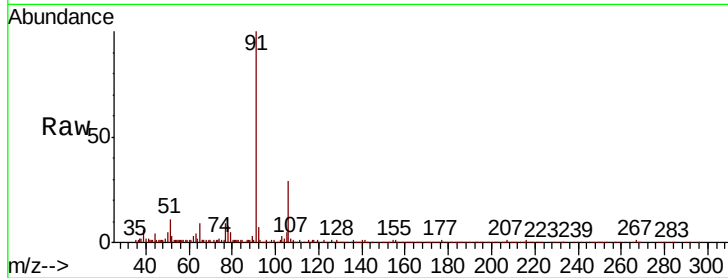
Ion Ratio Lower Upper

91 100

106 29.4 25.0 37.4

Manual Integrations
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11/15/2019 9:21:25 AM



#67

m/p-Xylenes

Concen: 1.546 ug/l

RT: 10.35 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX013423.D

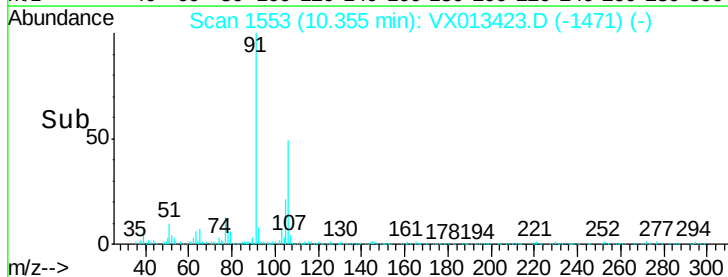
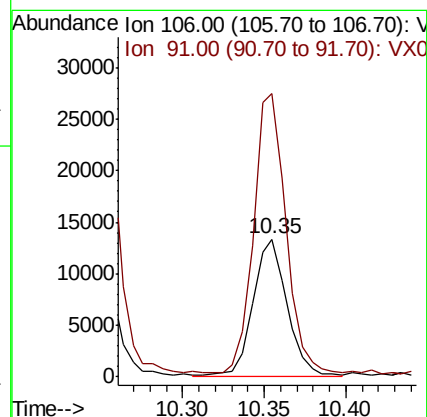
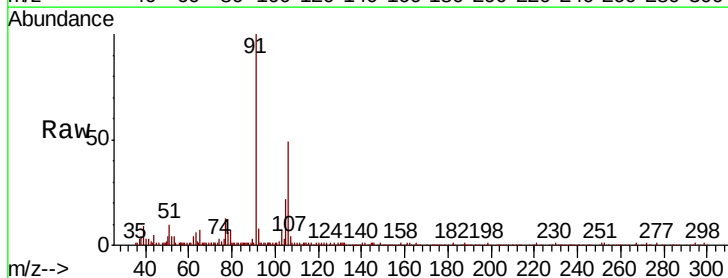
Acq: 14 Nov 2019 15:36

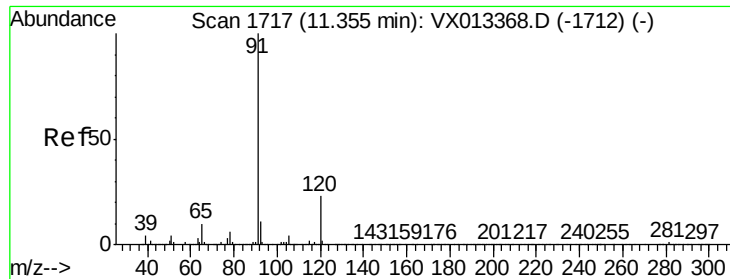
Tgt Ion: 106 Resp: 19149

Ion Ratio Lower Upper

106 100

91 196.0 158.4 237.6





#74

n-propylbenzene

Concen: 0.741 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VX013423.D

Acq: 14 Nov 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

TE-MW-QA-2

Tot Ion: 91 Resp: 26516

Ion Ratio Lower Upper

91 100

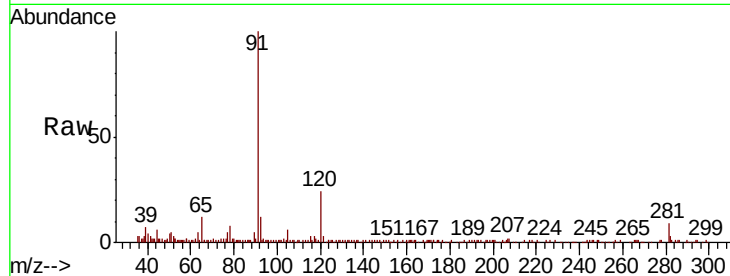
120 21.6 0.0 46.2

Manual Integrations

APPROVED

MMDadoda

11/15/2019 9:21:25 AM



Abundance Ion 91.00 (90.70 to 91.70): VX013368.D (-1712) (-)

Ion 120.00 (119.70 to 120.70): VX013368.D (-1712) (-)

11.35

20000

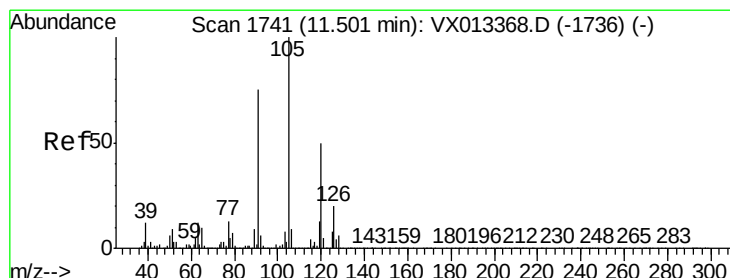
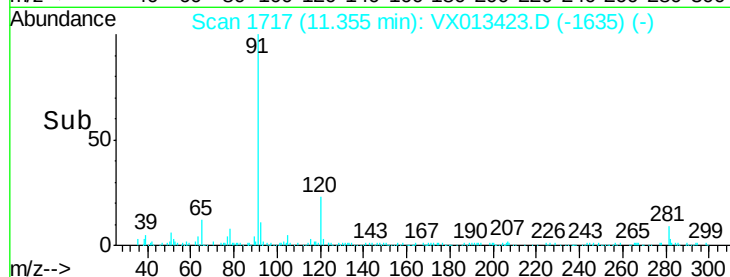
15000

10000

5000

0

Time--> 11.30 11.35 11.40



#76

1,3,5-Trimethylbenzene

Concen: 0.804 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX013423.D

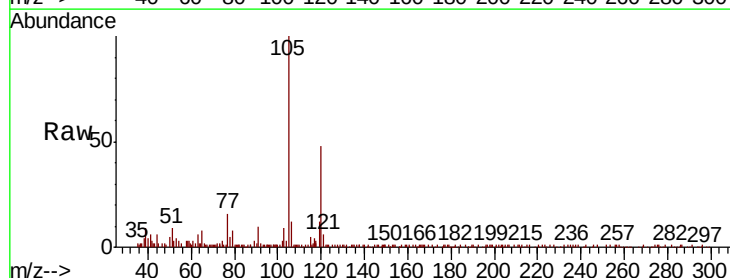
Acq: 14 Nov 2019 15:36

Tgt Ion: 105 Resp: 21278

Ion Ratio Lower Upper

105 100

120 52.7 0.0 100.0



Abundance Ion 105.00 (104.70 to 105.70): VX013368.D (-1736) (-)

Ion 120.00 (119.70 to 120.70): VX013368.D (-1736) (-)

11.50

20000

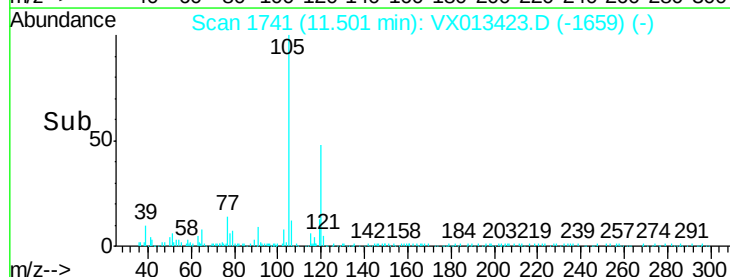
15000

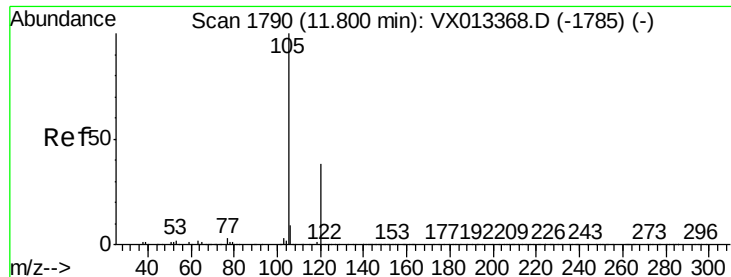
10000

5000

0

Time--> 11.45 11.50 11.55





#80

1,2,4-Trimethylbenzene

Concen: 0.985 ug/l

RT: 11.80 min Scan# 1790

Delta R.T. 0.00 min

Lab File: VX013423.D

Acq: 14 Nov 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

TE-MW-QA-2

Tot Ion:105 Resp: 25997

Ion Ratio Lower Upper

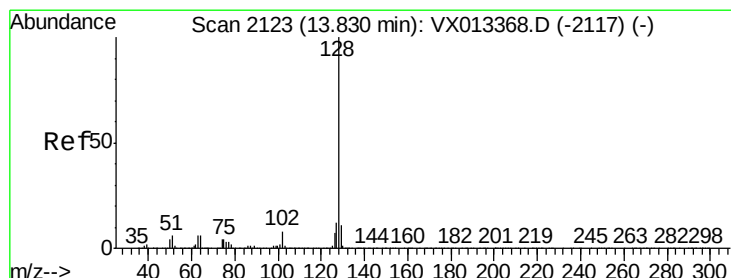
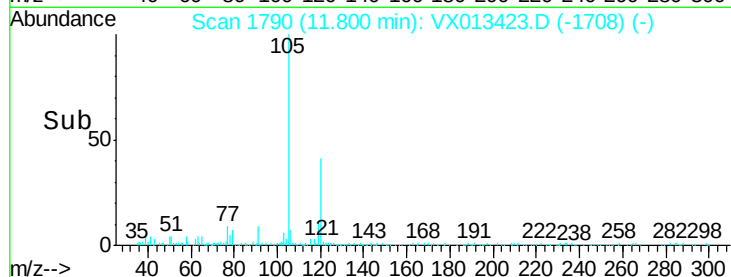
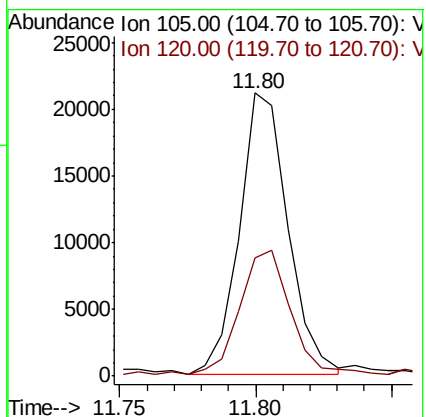
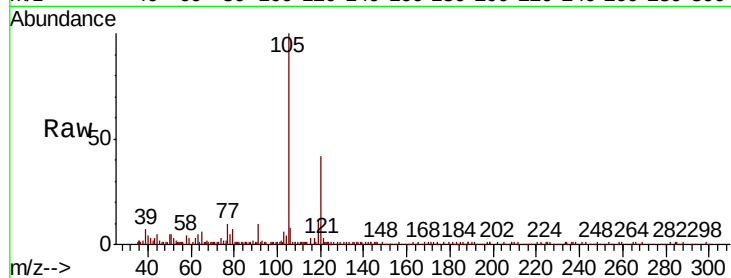
105 100

120 45.8 0.0 94.0

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#91

Naphthalene

Concen: 1.803 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX013423.D

Acq: 14 Nov 2019 15:36

Tgt Ion:128 Resp: 57481

Ion Ratio Lower Upper

128 100

127 13.1 10.2 15.2

129 10.0 8.8 13.2

