

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032719\
 Data File : VX008482.D
 Acq On : 27 Mar 2019 15:06
 Operator : JC/SP
 Sample : K2099-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SHORE-RD-CLVRT-STLD-1H-A

Manual Integrations
 APPROVED

MMDadoda
 3/28/2019 9:36:35 AM

Quant Time: Mar 28 09:51:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 12:01:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	36783	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	212915	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	185978	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	93365	30.34	ug/l	0.00
Spiked Amount 30.000	Range 50 - 169		Recovery =	101.13%		
60) 4-Bromofluorobenzene	11.13	95	97107	29.97	ug/l	0.00
Spiked Amount 30.000	Range 56 - 143		Recovery =	99.90%		
63) Toluene-d8	8.71	98	273097	30.94	ug/l	0.00
Spiked Amount 30.000	Range 66 - 137		Recovery =	103.13%		

Target Compounds

					Ovalue
15) Acetone	2.44	58	3363	6.248 ug/l	87
26) Cyclohexane	5.59	56	118455	23.840 ug/l #	70
38) Methylcyclohexane	7.46	83	134727	29.849 ug/l	78
66) Ethyl Benzene	10.25	91	17400	1.392 ug/l	98
67) m/p-Xylenes	10.36	106	7927	1.739 ug/l	97
70) Isopropylbenzene	11.02	105	30312	2.576 ug/l	96
74) n-propylbenzene	11.36	91	121826	8.690 ug/l	94
76) 1,3,5-Trimethylbenzene	11.51	105	68244	6.783 ug/l	95
81) sec-Butylbenzene	11.94	105	19509	1.697 ug/l	92
85) n-Butylbenzene	12.38	91	50466m	5.166 ug/l	
91) Naphthalene	13.83	128	63137	5.334 ug/l #	97

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

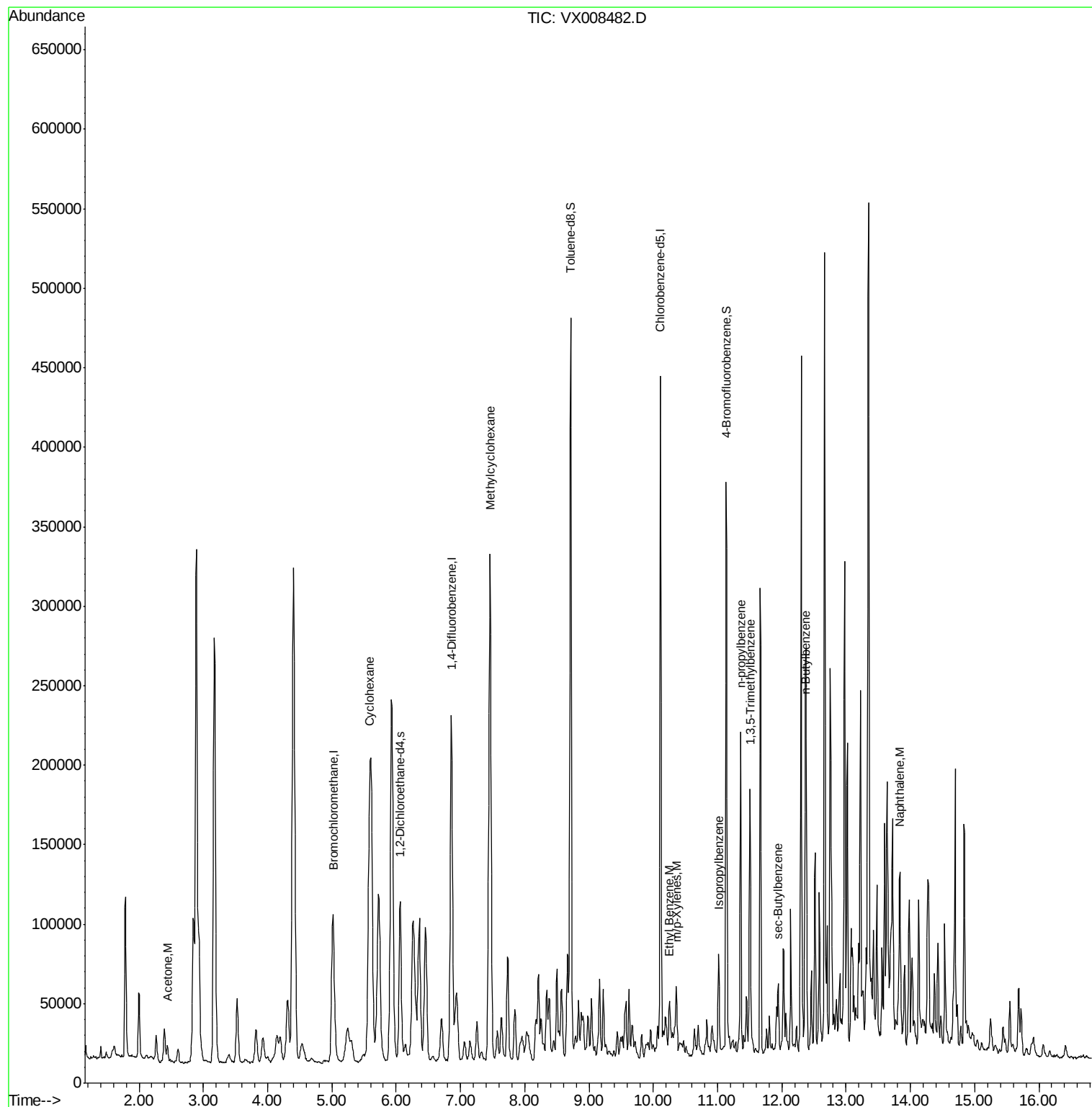
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX032719\
Data File : VX008482.D
Acq On : 27 Mar 2019 15:06
Operator : JC/SP
Sample : K2099-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 14 Sample Multiplier: 1

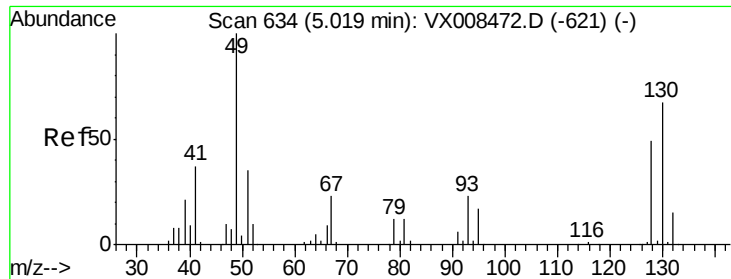
Instrument :
MSVOA_X
ClientSampleId :
SHORE-RD-CLVRT-STLD-1H-A

Manual Integrations
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3/28/2019 9:36:35 AM

Quant Time: Mar 28 09:51:37 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Mar 27 12:01:15 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.02 min Scan# 634

Delta R.T. 0.00 min

Lab File: VX008482.D

Acq: 27 Mar 2019 15:06

Instrument :

MSVOA_X

ClientSampleId :

SHORE-RD-CLVRT-STLD-1H-A

Tot Ion:128 Resp: 36783

Ion Ratio Lower Upper

128 100

49 205.7 0.0 350.8

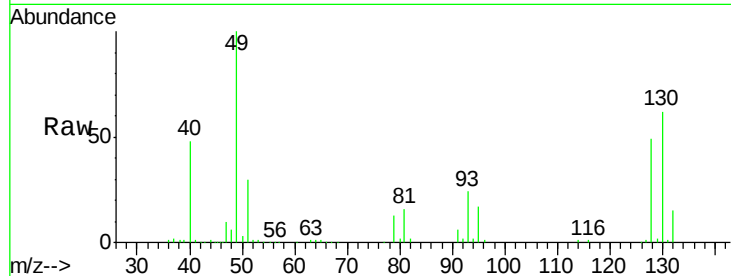
130 126.8 0.0 325.8

Manual Integrations

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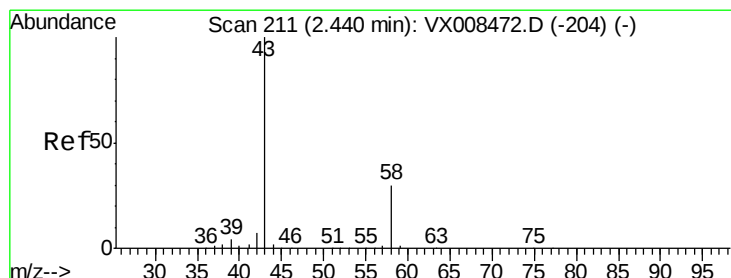
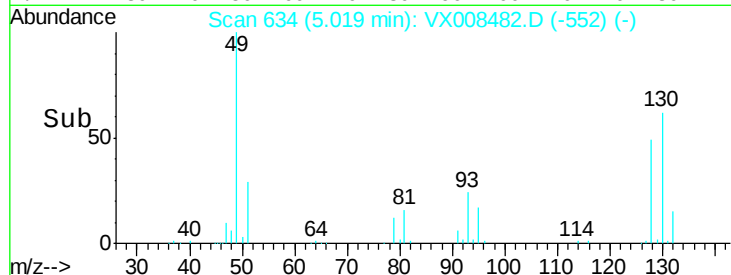
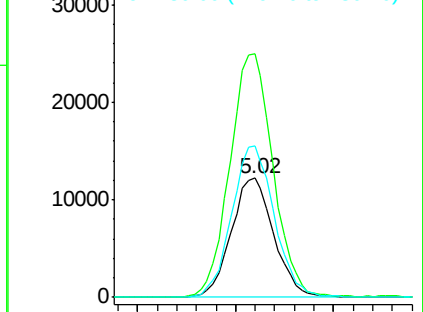
3/28/2019 9:36:35 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#15

Acetone

Concen: 6.248 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX008482.D

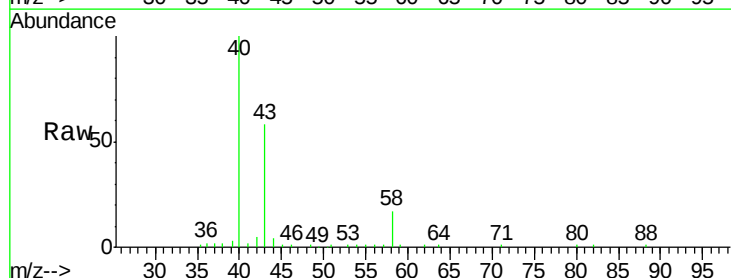
Acq: 27 Mar 2019 15:06

Tgt Ion: 58 Resp: 3363

Ion Ratio Lower Upper

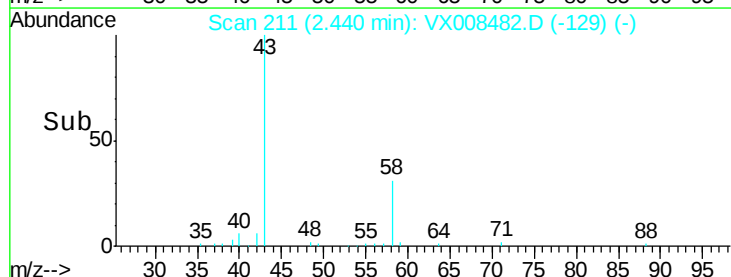
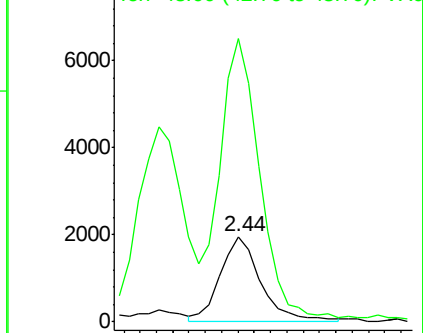
58 100

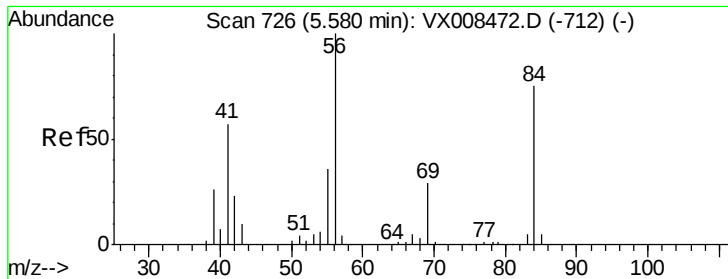
43 337.6 249.8 374.6



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0





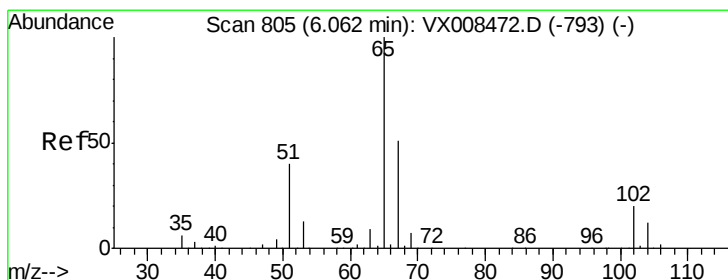
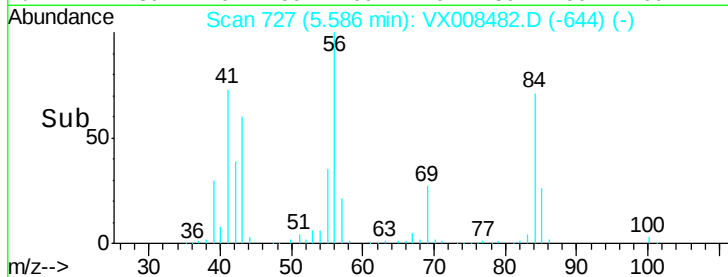
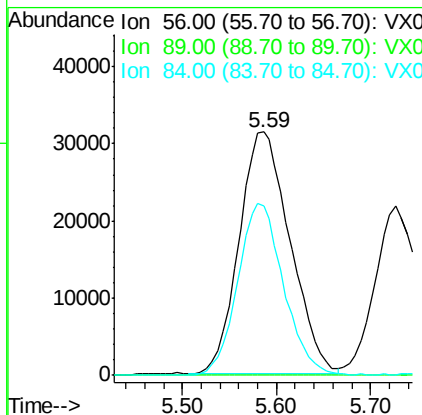
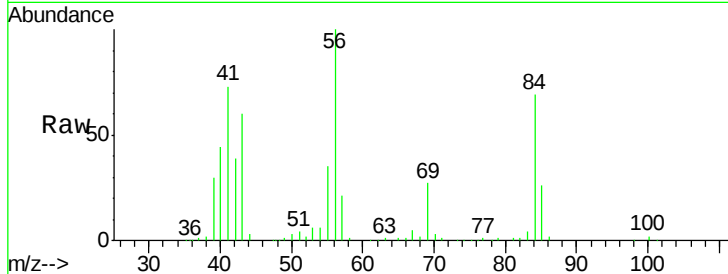
#26
Cyclohexane
Concen: 23.840 ug/l
RT: 5.59 min Scan# 727
Delta R.T. 0.01 min
Lab File: VX008482.D
Acq: 27 Mar 2019 15:06

Instrument :
MSVOA_X
ClientSampleId :
SHORE-RD-CLVRT-STLD-1H-A

Tot Ion	Ratio	Lower	Upper
56	100		
89	0.0	0.0	0.0
84	63.8	73.9	110.9#

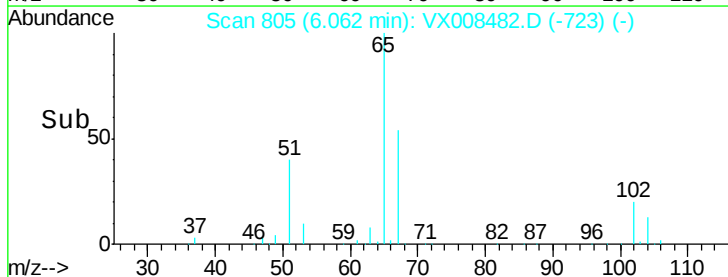
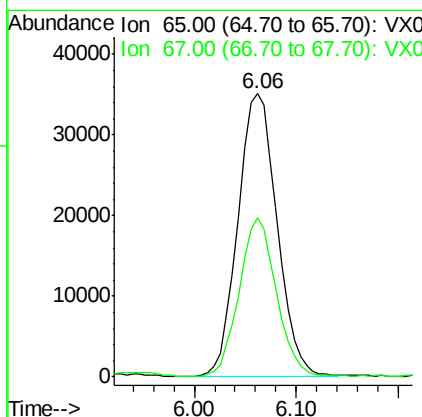
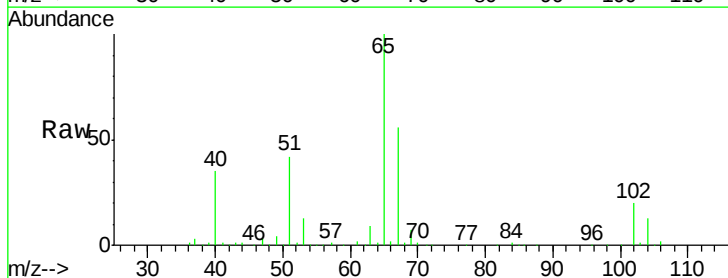
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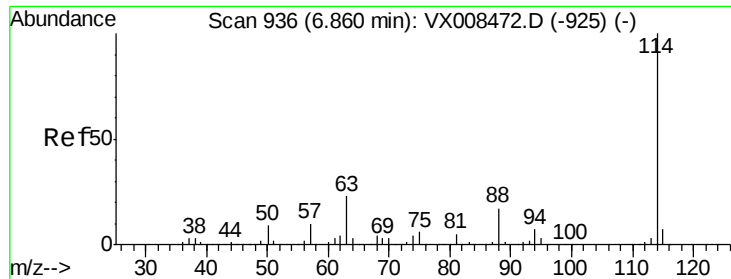
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#27
1,2-Dichloroethane-d4
Concen: 30.342 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX008482.D
Acq: 27 Mar 2019 15:06

Tgt Ion	Ratio	Lower	Upper
65	100		
67	53.0	42.9	64.3





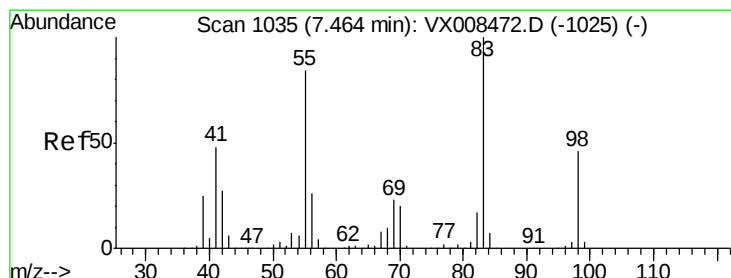
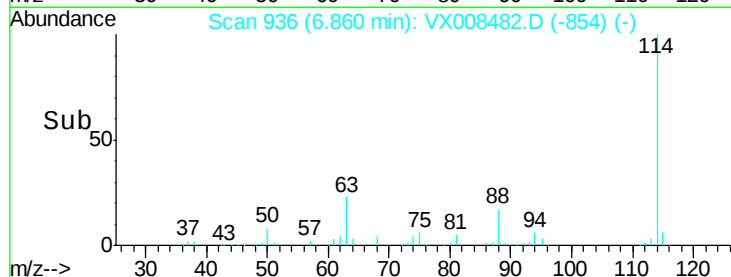
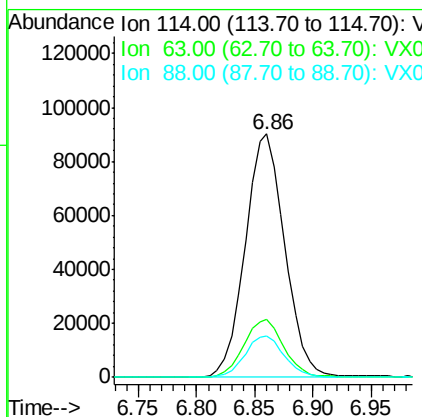
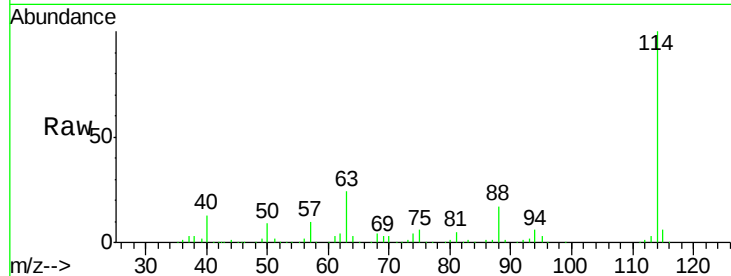
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008482.D
 Acq: 27 Mar 2019 15:06

Instrument :
 MSVOA_X
 ClientSampleId :
 SHORE-RD-CLVRT-STLD-1H-A

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.0	14.2	21.4#
88	17.0	11.9	17.9

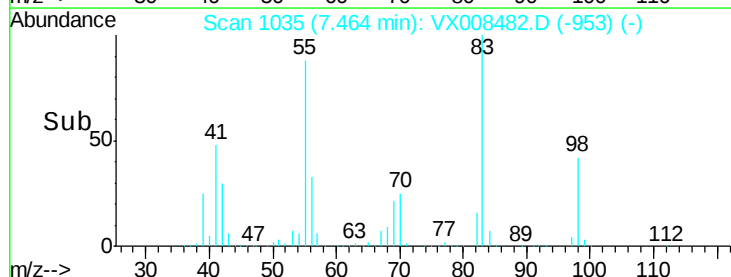
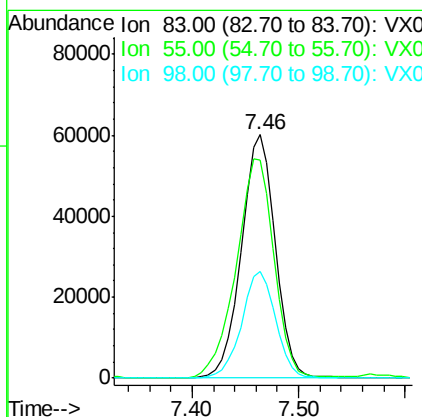
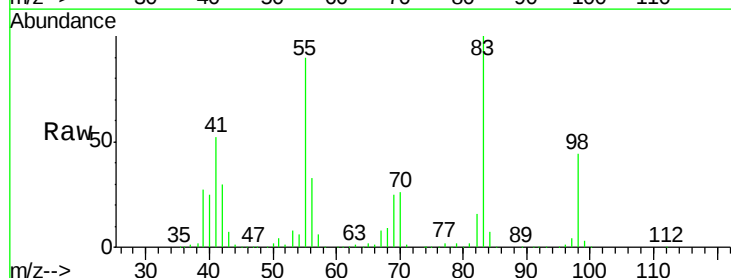
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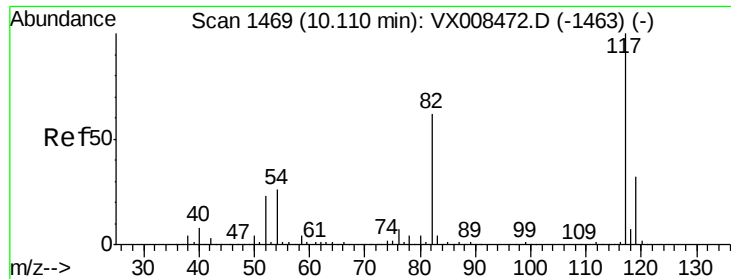
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#38
 Methylcyclohexane
 Concen: 29.849 ug/l
 RT: 7.46 min Scan# 1035
 Delta R.T. 0.00 min
 Lab File: VX008482.D
 Acq: 27 Mar 2019 15:06

Tgt Ion	Ratio	Lower	Upper
83	100		
55	99.8	36.0	108.0
98	43.9	23.8	71.4





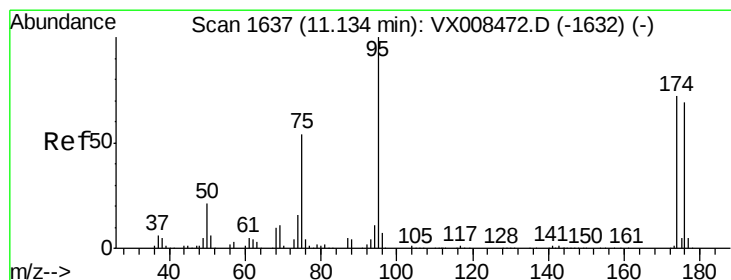
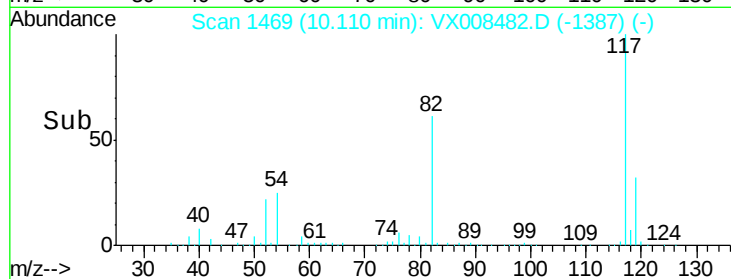
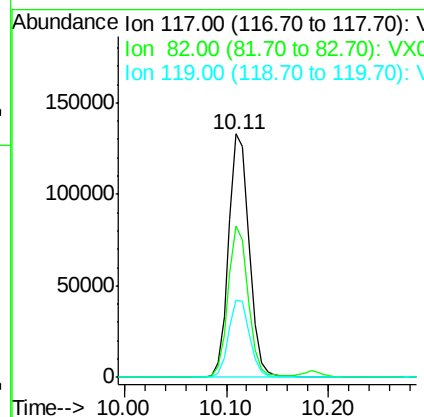
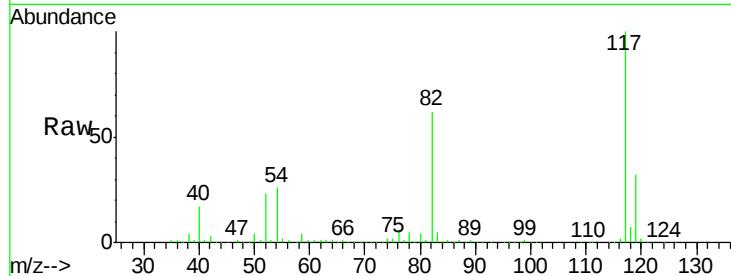
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008482.D
Acq: 27 Mar 2019 15:06

Instrument :
MSVOA_X
ClientSampleId :
SHORE-RD-CLVRT-STLD-1H-A

Tot Ion	Ratio	Resp	Lower	Upper
117	100	185978		
82	60.6	40.4	60.6#	
119	32.4	25.8	38.6	

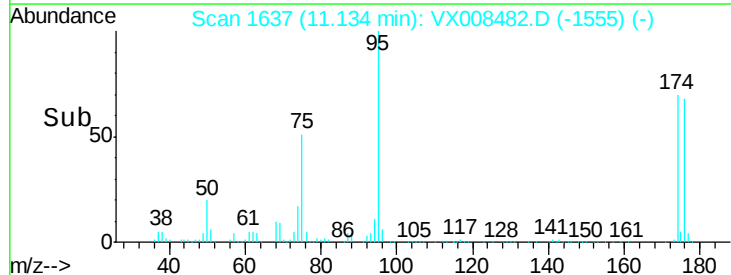
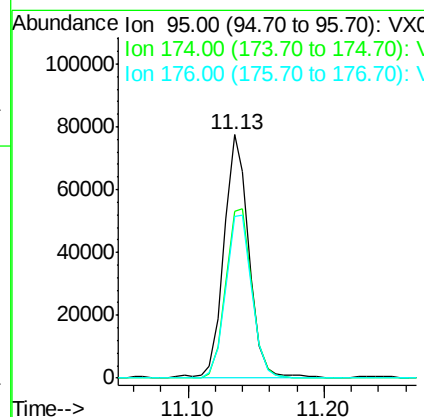
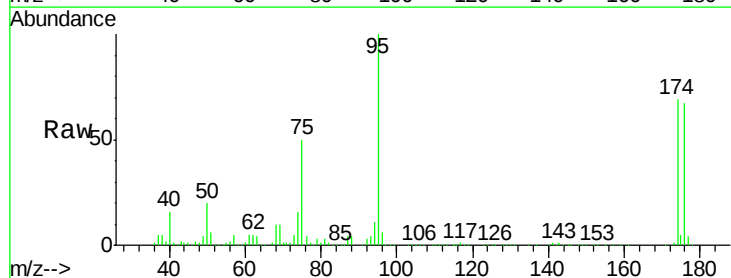
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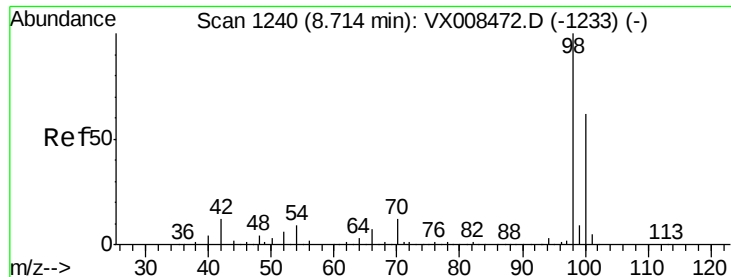
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#60
4-Bromofluorobenzene
Concen: 29.968 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX008482.D
Acq: 27 Mar 2019 15:06

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	97107		
174	73.2	74.9	112.3#	
176	70.8	70.7	106.1	





#63

Toluene-d8

Concen: 30.936 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008482.D

Acq: 27 Mar 2019 15:06

Instrument :

MSVOA_X

ClientSampleId :

SHORE-RD-CLVRT-STLD-1H-A

Tot Ion: 98 Resp: 273097

Ion Ratio Lower Upper

98 100

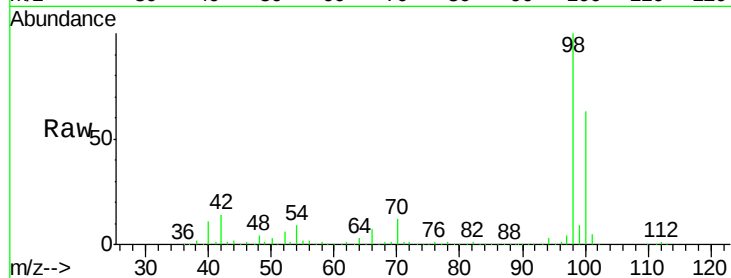
100 63.1 50.9 76.3

Manual Integrations

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Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

200000

150000

100000

50000

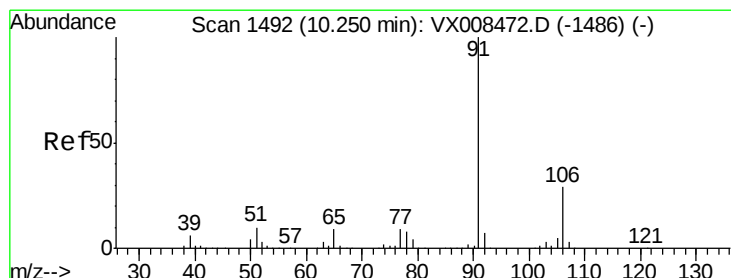
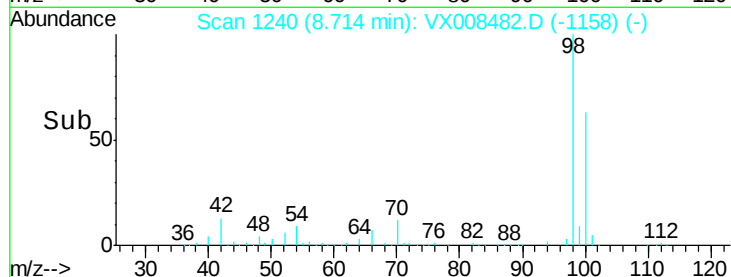
0

8.71

8.70

8.80

Time-->



#66

Ethyl Benzene

Concen: 1.392 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX008482.D

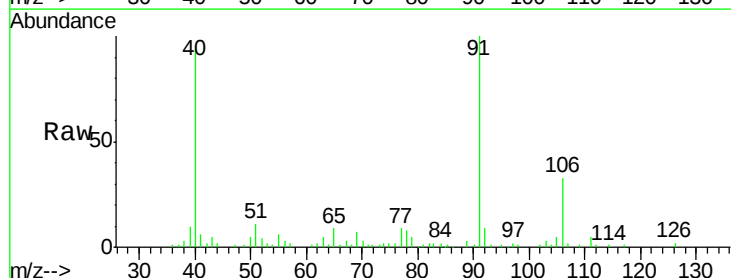
Acq: 27 Mar 2019 15:06

Tgt Ion: 91 Resp: 17400

Ion Ratio Lower Upper

91 100

106 33.7 26.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

15000

10000

5000

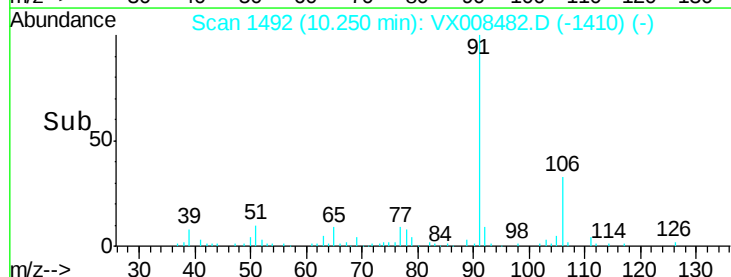
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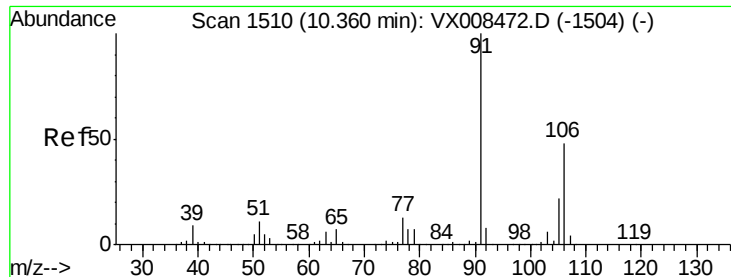
10.25

10.20

10.30

Time-->





#67

m/p-Xvlenes

Concen: 1.739 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX008482.D

Acq: 27 Mar 2019 15:06

Instrument :

MSVOA_X

ClientSampleId :

SHORE-RD-CLVRT-STLD-1H-A

Tot Ion:106 Resp: 7927

Ion Ratio Lower Upper

106 100

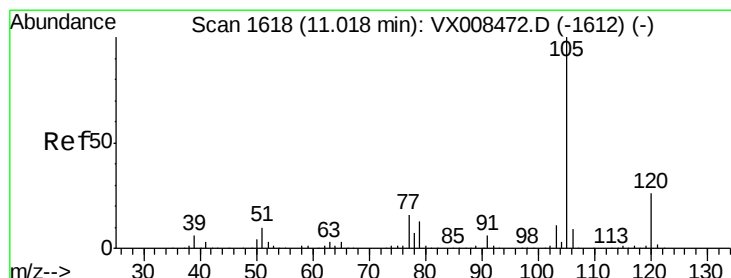
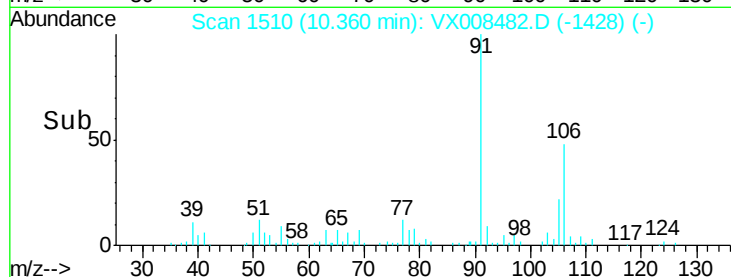
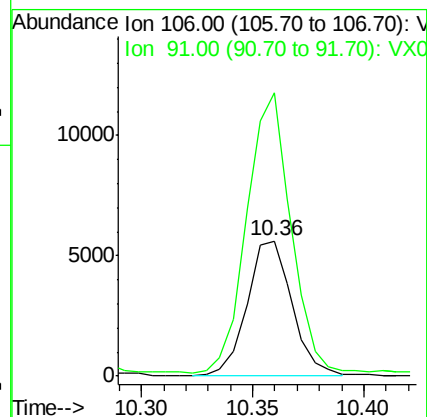
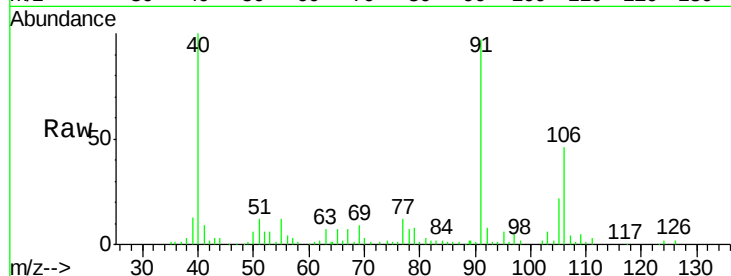
91 200.8 157.0 235.4

Manual Integrations

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#70

Isopropylbenzene

Concen: 2.576 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX008482.D

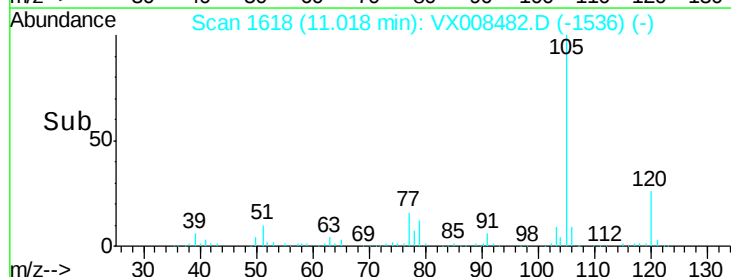
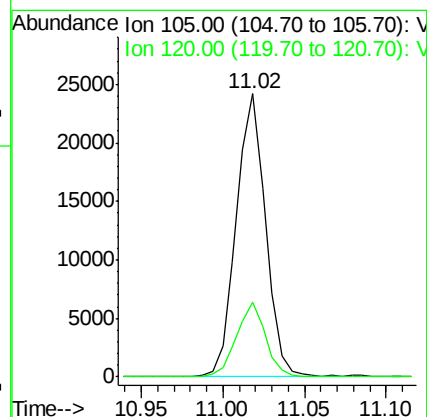
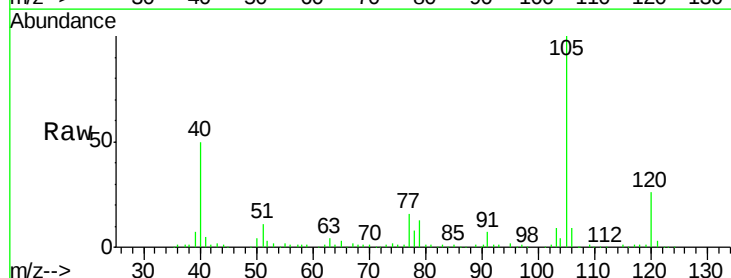
Acq: 27 Mar 2019 15:06

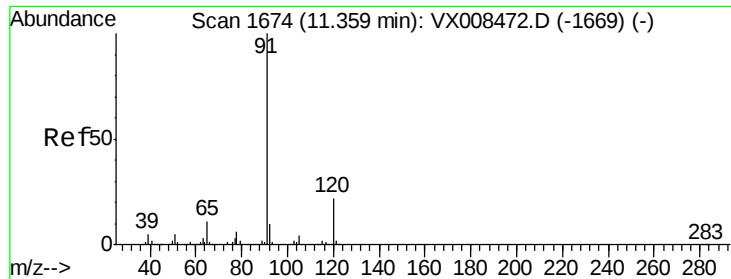
Tgt Ion:105 Resp: 30312

Ion Ratio Lower Upper

105 100

120 26.1 19.8 36.8





#74

n-propylbenzene

Concen: 8.690 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX008482.D

Acq: 27 Mar 2019 15:06

Instrument :

MSVOA_X

ClientSampleId :

SHORE-RD-CLVRT-STLD-1H-A

Tot Ion: 91 Resp: 121826

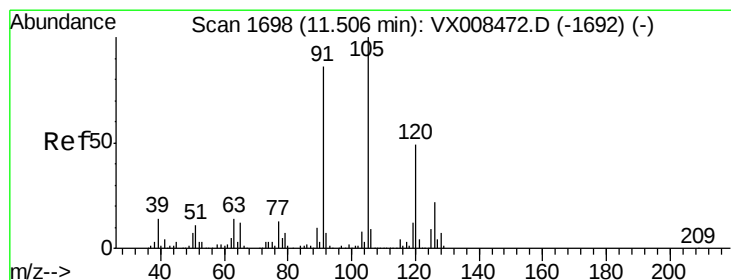
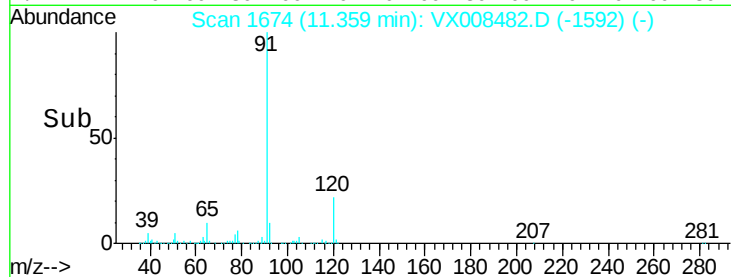
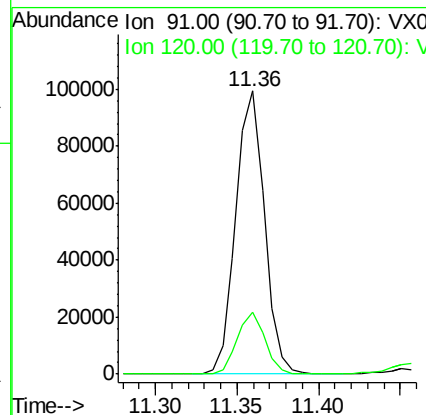
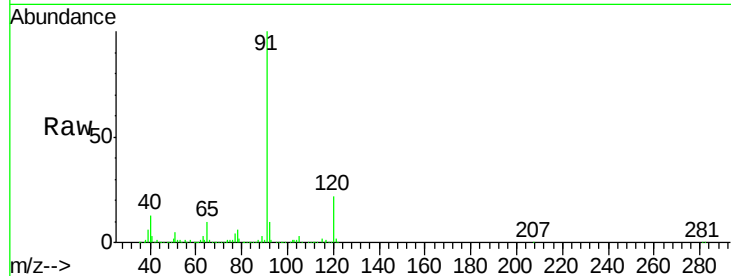
Ion Ratio Lower Upper

91 100

120 21.3 0.0 48.6

Manual Integrations
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#76

1,3,5-Trimethylbenzene

Concen: 6.783 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX008482.D

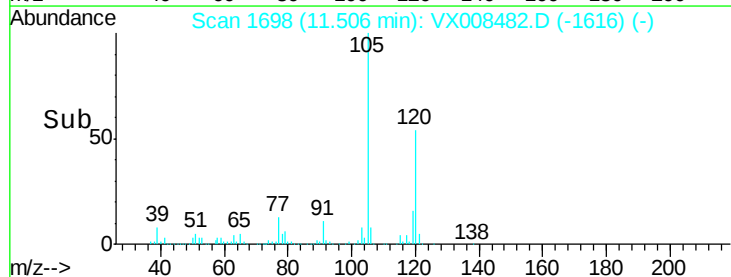
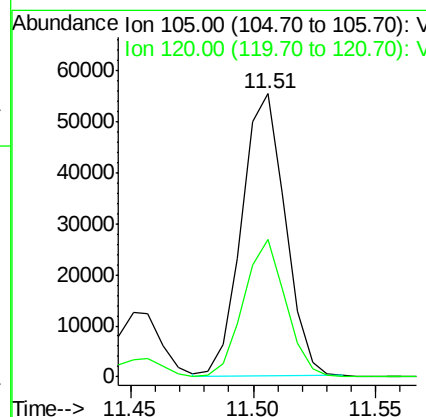
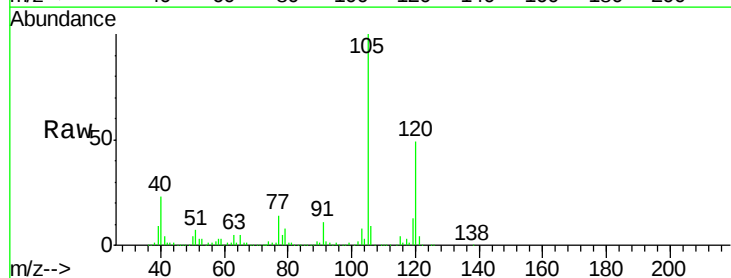
Acq: 27 Mar 2019 15:06

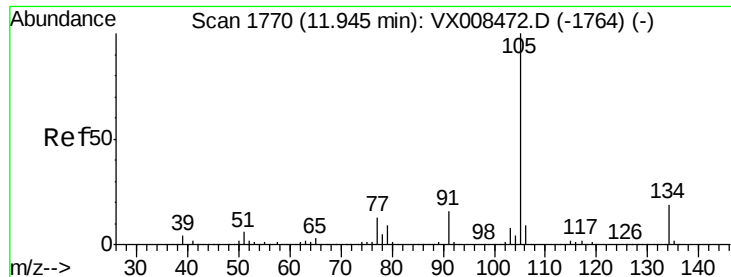
Tgt Ion: 105 Resp: 68244

Ion Ratio Lower Upper

105 100

120 47.3 0.0 101.0





#81

sec-Butylbenzene

Concen: 1.697 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX008482.D

Acq: 27 Mar 2019 15:06

Instrument :

MSVOA_X

ClientSampleId :

SHORE-RD-CLVRT-STLD-1H-A

Tot Ion: 105 Resp: 19509

Ion Ratio Lower Upper

105 100

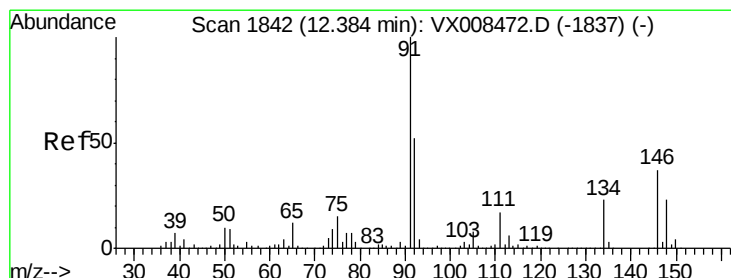
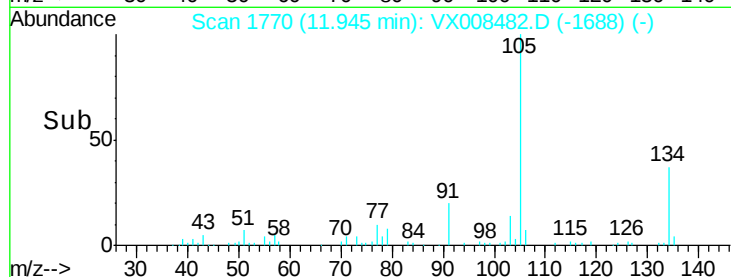
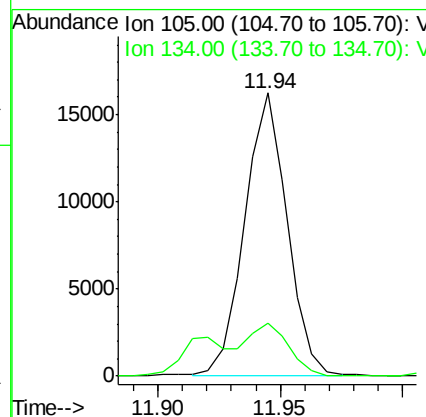
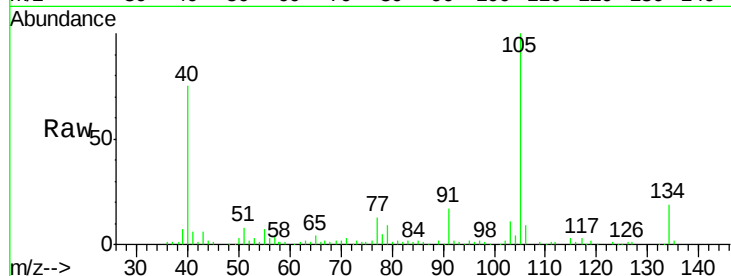
134 17.1 0.0 41.8

Manual Integrations

APPROVED

MMDadoda

3/28/2019 9:36:35 AM



#85

n-Butylbenzene

Concen: 5.166 ug/l m

RT: 12.38 min Scan# 1842

Delta R.T. 0.00 min

Lab File: VX008482.D

Acq: 27 Mar 2019 15:06

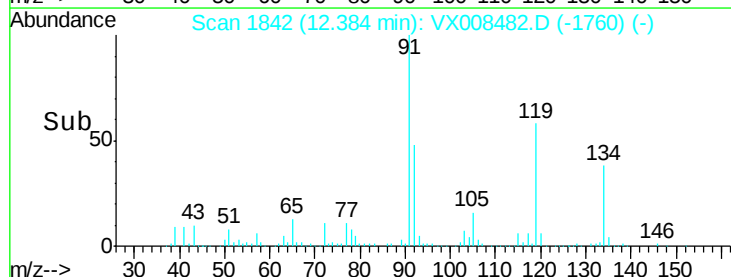
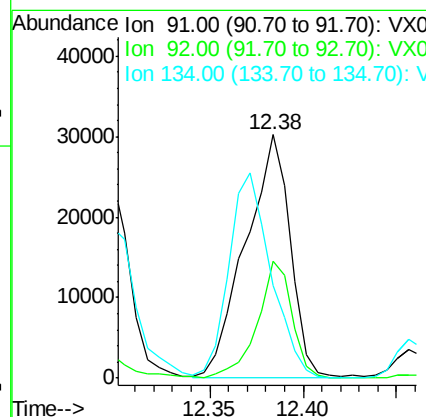
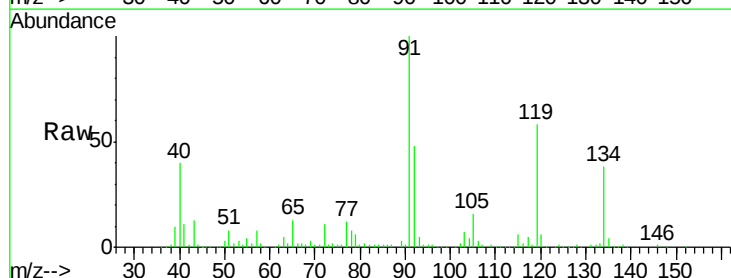
Tgt Ion: 91 Resp: 50466

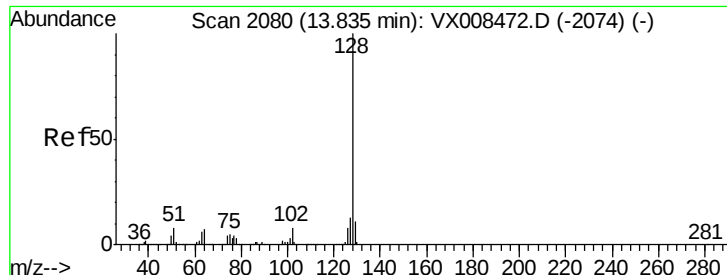
Ion Ratio Lower Upper

91 100

92 4.0 0.0 105.2

134 13.1 0.0 56.4





#91
Naphthalene
Concen: 5.334 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX008482.D
Acq: 27 Mar 2019 15:06

Instrument :
MSVOA_X
ClientSampleId :
SHORE-RD-CLVRT-STLD-1H-A

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.5	15.7
129	13.4	8.9	13.3

Manual Integrations
APPROVED

MMDadoda
3/28/2019 9:36:35 AM

