

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020819\
 Data File : VX007452.D
 Acq On : 08 Feb 2019 19:42
 Operator : JC/SP
 Sample : K1451-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SHORE-RD-BOX-CULVERT-TP

Manual Integrations
 APPROVED

MMDadoda
 2/11/2019 9:39:46 AM

Quant Time: Feb 11 09:43:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X012519W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 28 10:35:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	74081	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	398281	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	348691	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	146883	30.21	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.70%
60) 4-Bromofluorobenzene	11.13	95	152563	28.35	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.50%
63) Toluene-d8	8.71	98	466258	29.67	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.90%

Target Compounds

					Ovalue
15) Acetone	2.45	58	19189	27.692 ug/l	93
25) Chloroform	5.21	83	13949m	1.909 ug/l	
26) Cyclohexane	5.57	56	68237	11.462 ug/l #	94
30) 2-Butanone	4.71	43	25272	8.146 ug/l #	94
34) Benzene	6.14	78	93046	5.810 ug/l	95
38) Methylcyclohexane	7.46	83	52424	7.967 ug/l	90
62) Toluene	8.78	91	12161	0.693 ug/l	97
66) Ethyl Benzene	10.25	91	10596m	0.557 ug/l	
67) m/p-Xylenes	10.36	106	25609	3.410 ug/l	96
68) o-Xylene	10.69	106	3989	0.542 ug/l	89
70) Isopropylbenzene	11.02	105	12709	0.653 ug/l	98
74) n-propylbenzene	11.36	91	26901	1.227 ug/l	97
80) 1,2,4-Trimethylbenzene	11.80	105	7167	0.435 ug/l	94
91) Naphthalene	13.83	128	25894	1.306 ug/l	96

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

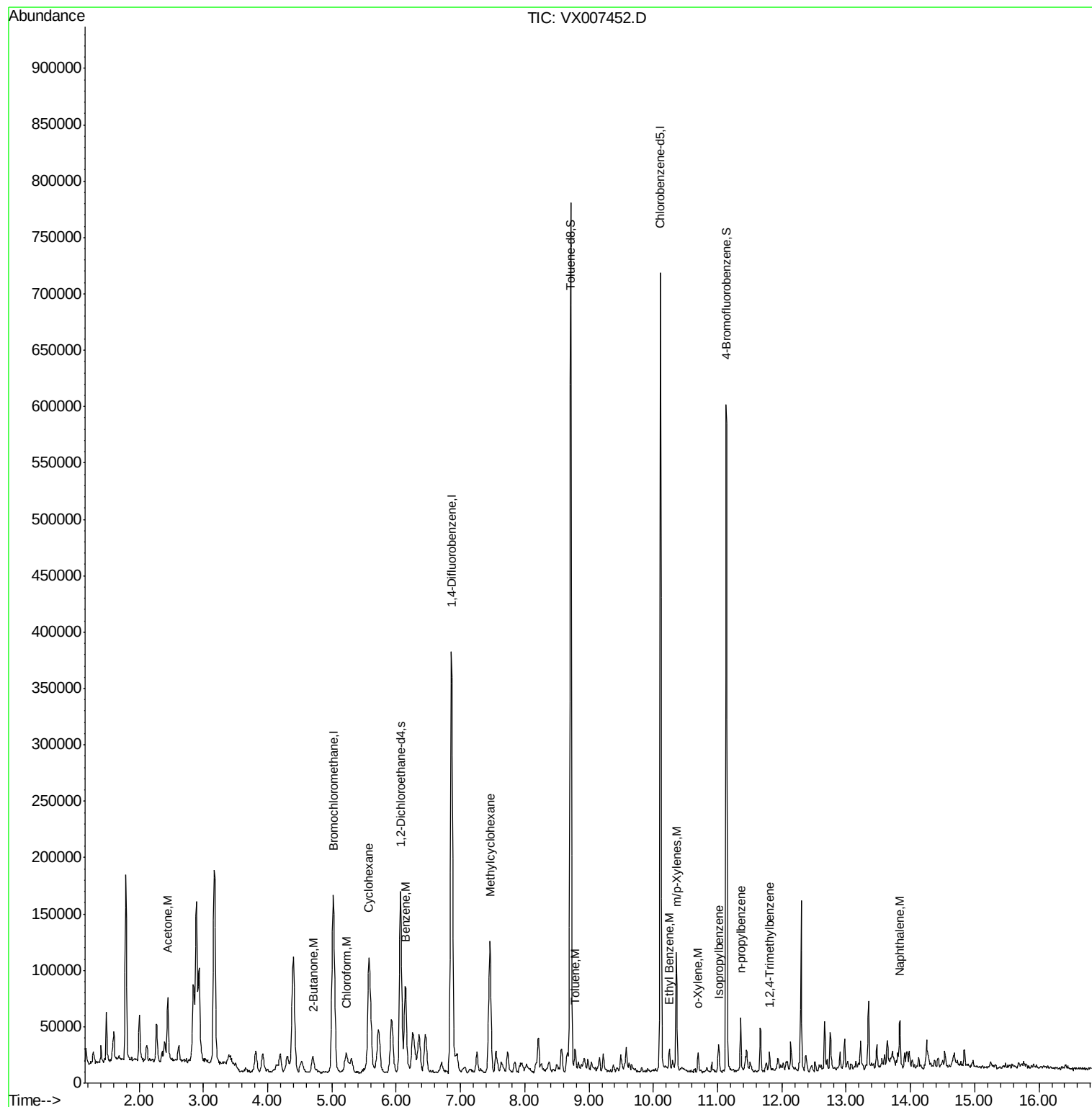
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX020819\
Data File : VX007452.D
Acq On : 08 Feb 2019 19:42
Operator : JC/SP
Sample : K1451-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 21 Sample Multiplier: 1

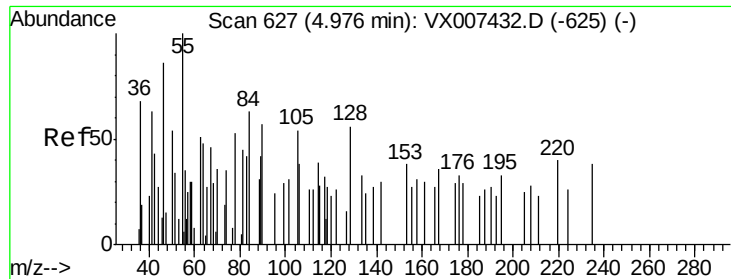
Instrument :
MSVOA_X
ClientSampleId :
SHORE-RD-BOX-CULVERT-TP

Manual Integrations
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2/11/2019 9:39:46 AM

Quant Time: Feb 11 09:43:49 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X012519W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Jan 28 10:35:22 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: VX007452.D

Acq: 08 Feb 2019 19:42

Instrument :

MSVOA_X

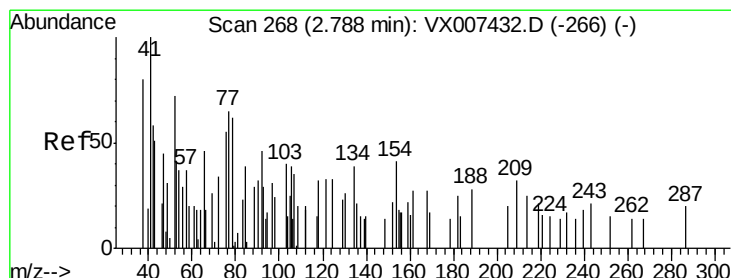
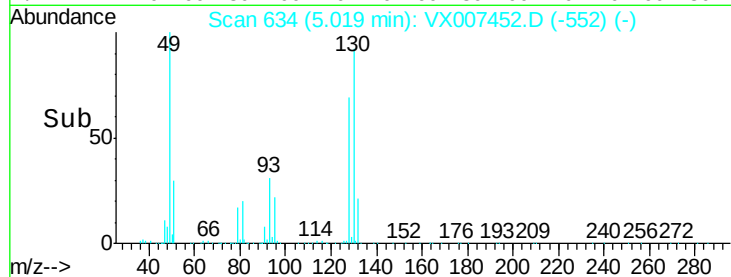
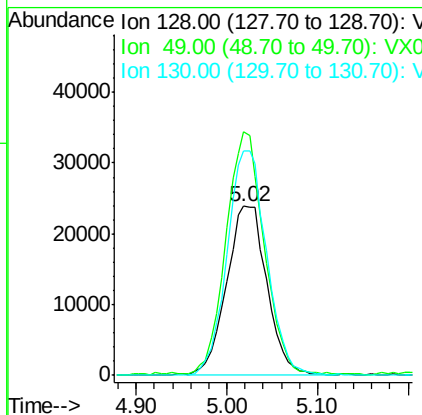
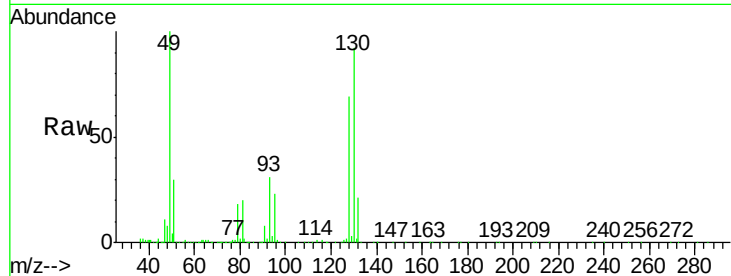
ClientSampleId :

SHORE-RD-BOX-CULVERT-TP

Tot Ion	Ratio	Lower	Upper
128	100		
49	136.1	0.0	345.5
130	129.4	0.0	320.0

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#15

Acetone

Concen: 27.692 ug/l

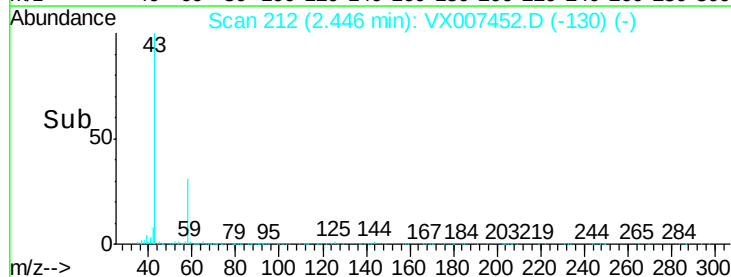
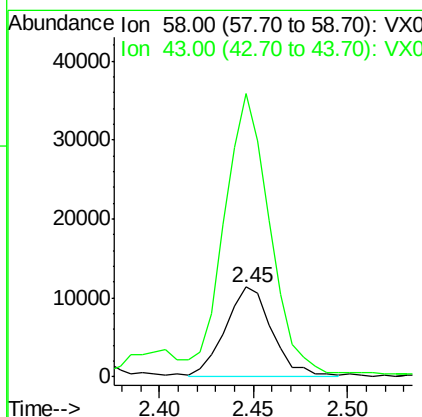
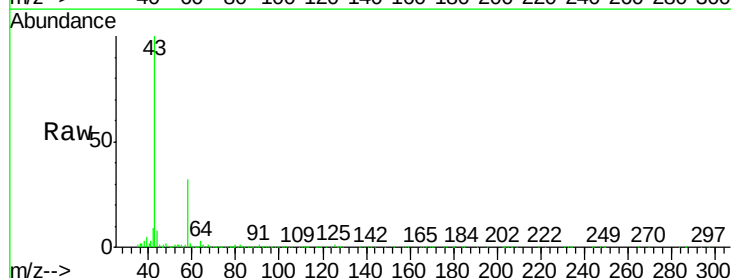
RT: 2.45 min Scan# 212

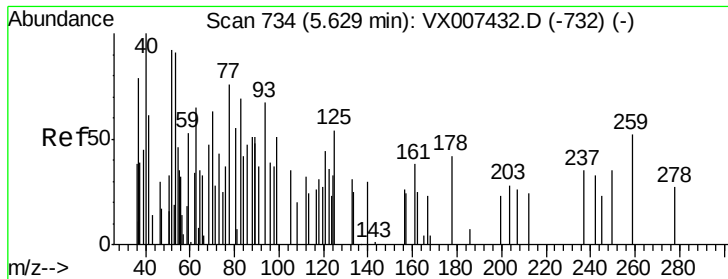
Delta R.T. -0.00 min

Lab File: VX007452.D

Acq: 08 Feb 2019 19:42

Tgt Ion	Ratio	Lower	Upper
58	100		
43	318.4	265.9	398.9





#25

Chloroform

Concen: 1.909 ug/l m

RT: 5.21 min Scan# 666

Delta R.T. -0.00 min

Lab File: VX007452.D

Acq: 08 Feb 2019 19:42

Instrument :

MSVOA_X

ClientSampleId :

SHORE-RD-BOX-CULVERT-TP

Tot Ion: 83 Resp: 13949

Ion Ratio Lower Upper

83 100

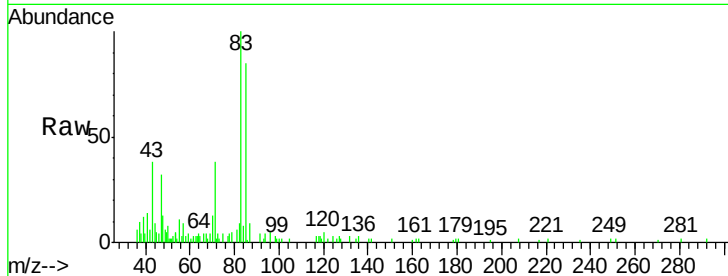
85 84.9 51.9 77.9#

Manual Integrations

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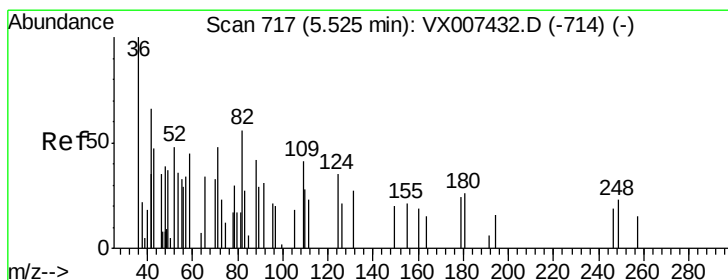
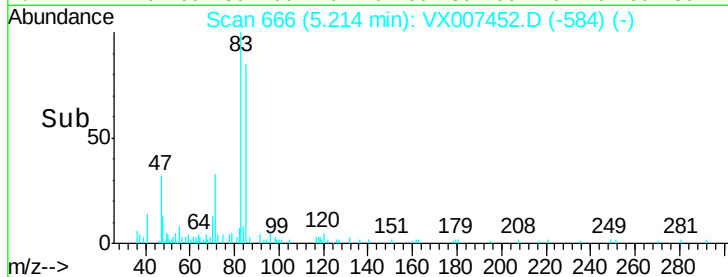
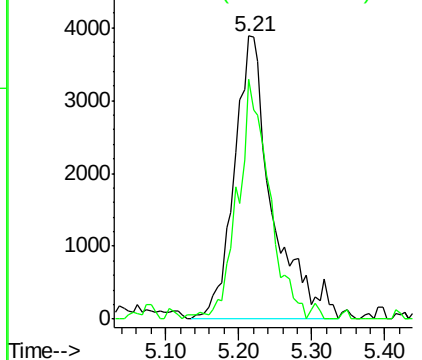
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Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0



#26

Cyclohexane

Concen: 11.462 ug/l

RT: 5.57 min Scan# 725

Delta R.T. -0.01 min

Lab File: VX007452.D

Acq: 08 Feb 2019 19:42

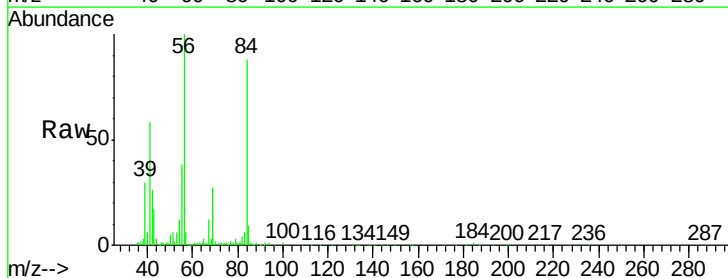
Tgt Ion: 56 Resp: 68237

Ion Ratio Lower Upper

56 100

89 0.2 0.1 0.1#

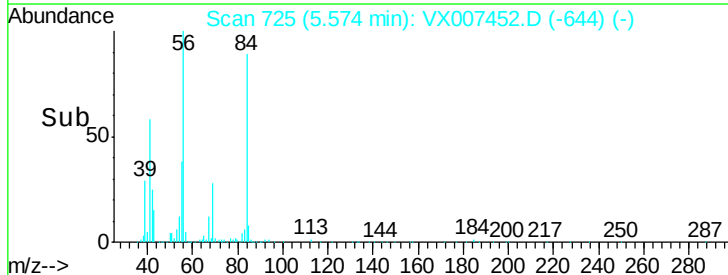
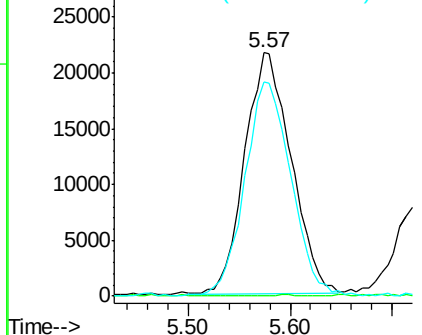
84 87.3 74.2 111.2

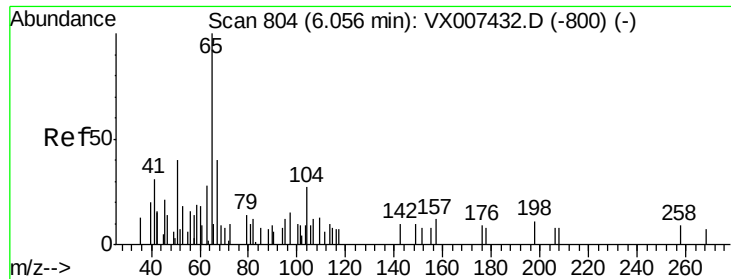


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 89.00 (88.70 to 89.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#27

1,2-Dichloroethane-d4

Concen: 30.205 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007452.D

Acq: 08 Feb 2019 19:42

Tot Ion: 65 Resp: 146883

Ion Ratio Lower Upper

65 100

67 53.5 42.0 63.0

Instrument :

MSVOA_X

ClientSampleId :

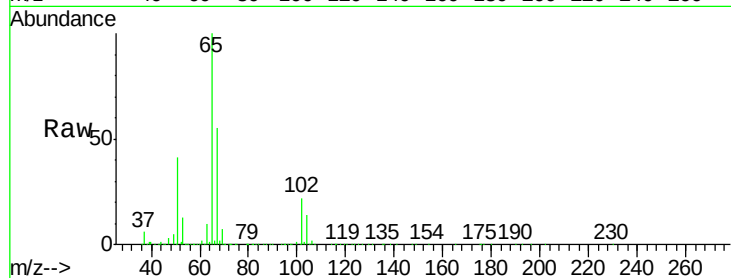
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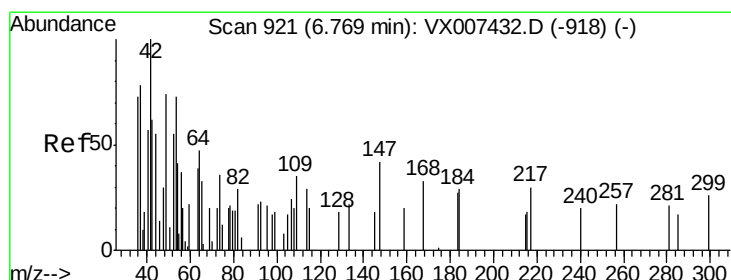
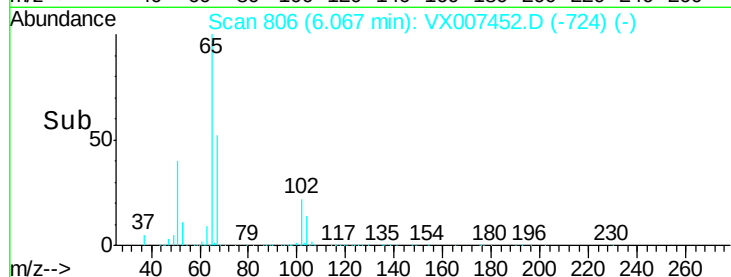
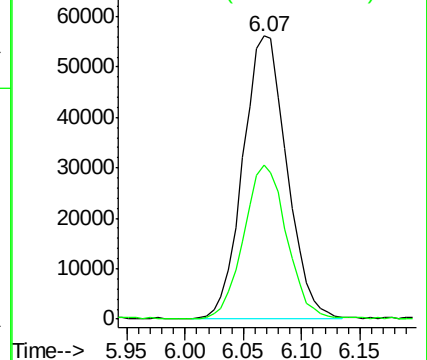
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Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007452.D

Acq: 08 Feb 2019 19:42

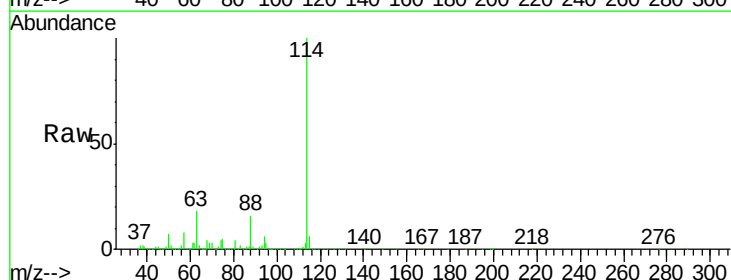
Tgt Ion:114 Resp: 398281

Ion Ratio Lower Upper

114 100

63 18.6 14.6 21.8

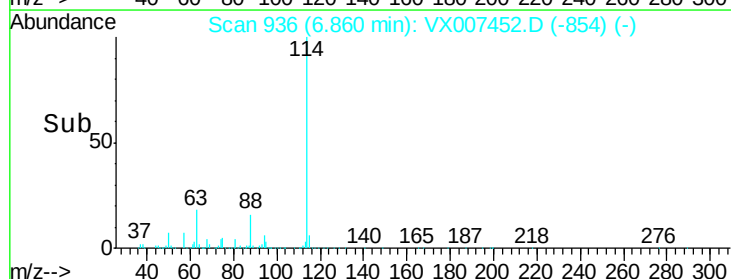
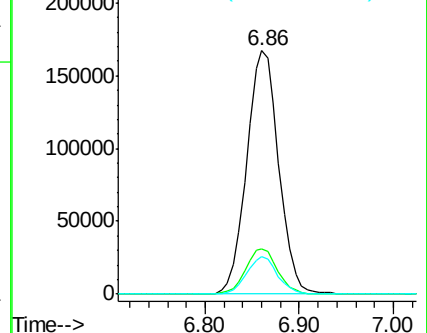
88 14.8 11.8 17.6

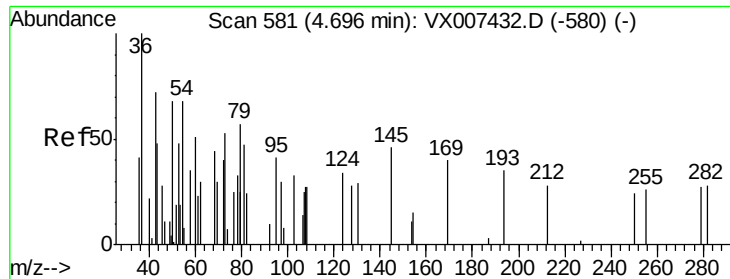


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0





#30

2-Butanone

Concen: 8.146 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX007452.D

Acq: 08 Feb 2019 19:42

Instrument :

MSVOA_X

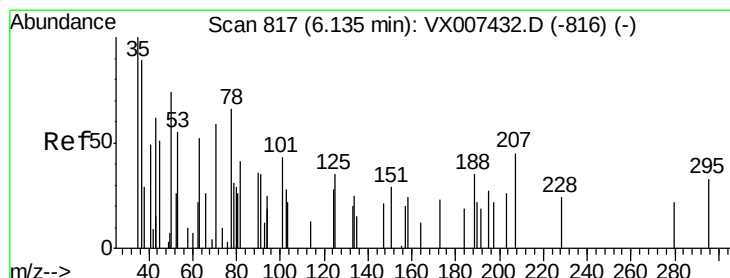
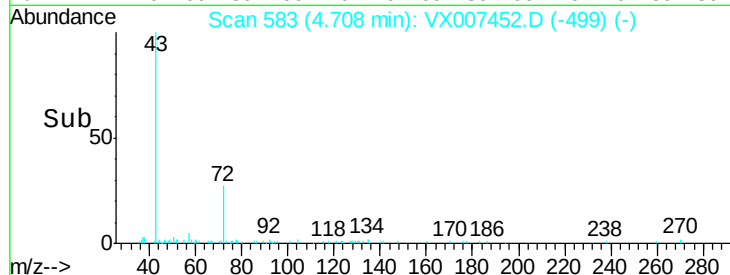
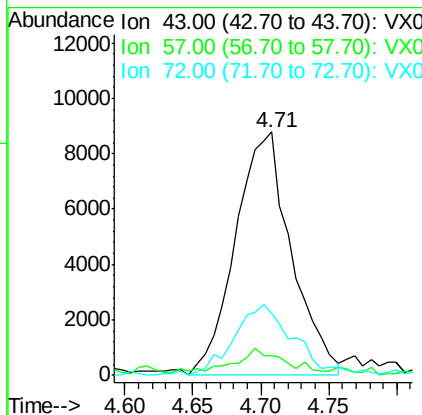
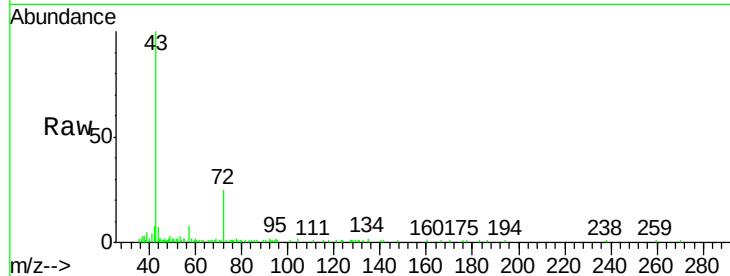
ClientSampleId :

SHORE-RD-BOX-CULVERT-TP

Tot Ion:	43	Resp:	25272
Ion Ratio	Lower	Upper	
43	100		
57	5.8	3.3	4.9#
72	24.5	22.0	33.0

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#34

Benzene

Concen: 5.810 ug/l

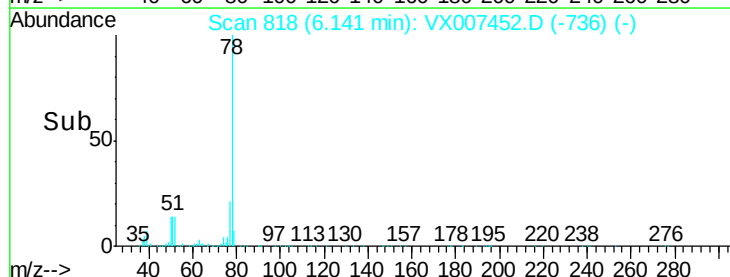
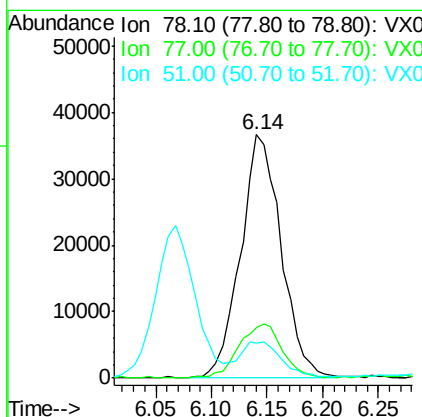
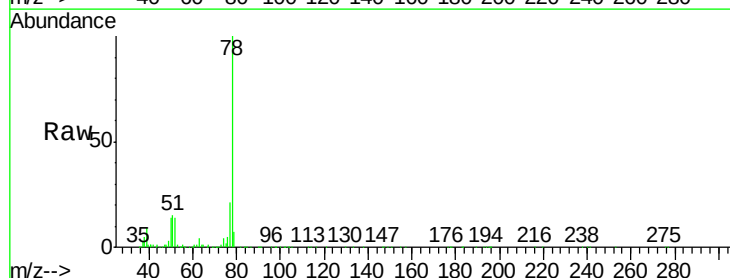
RT: 6.14 min Scan# 818

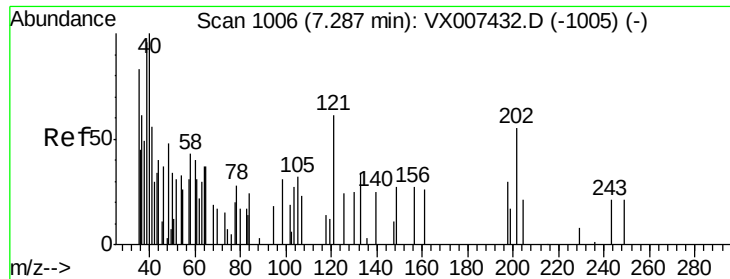
Delta R.T. -0.00 min

Lab File: VX007452.D

Acq: 08 Feb 2019 19:42

Tgt Ion:	78	Resp:	93046
Ion Ratio	Lower	Upper	
78	100		
77	20.8	19.1	28.7
51	14.0	12.4	18.6





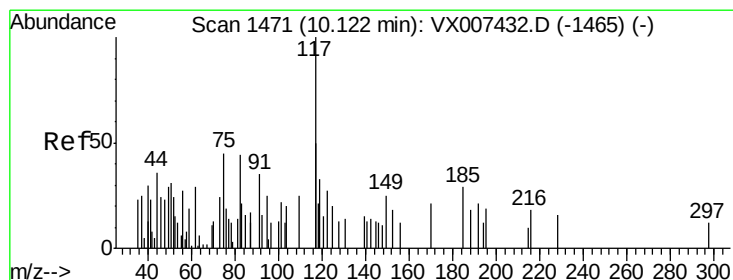
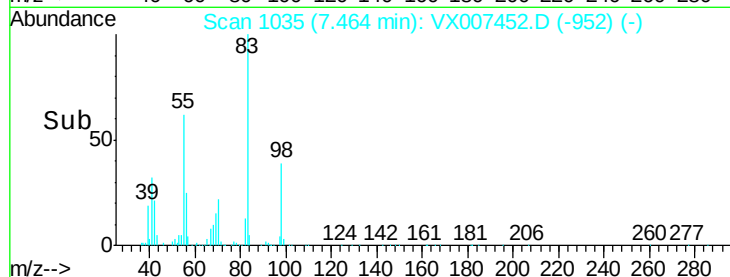
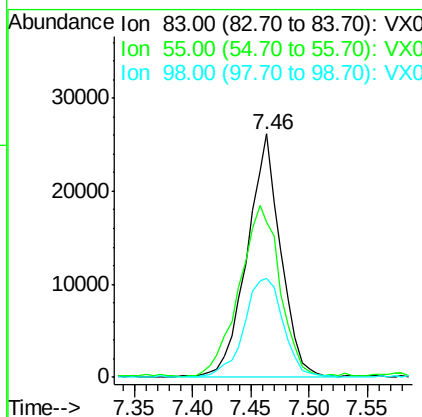
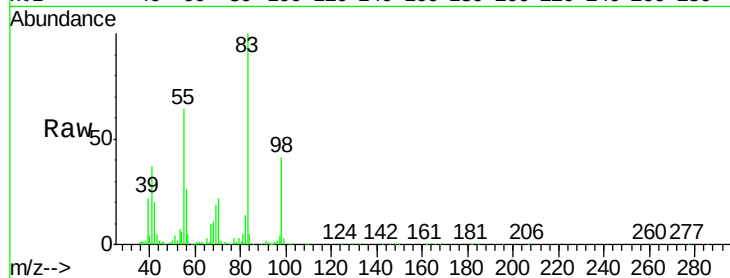
#38
Methvlcvclohexane
Concen: 7.967 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.01 min
Lab File: VX007452.D
Acq: 08 Feb 2019 19:42

Instrument :
MSVOA_X
ClientSampleId :
SHORE-RD-BOX-CULVERT-TP

Tot Ion	83	Resp	52424
Ion	Ratio	Lower	Upper
83	100		
55	86.4	36.6	109.8
98	48.1	24.1	72.4

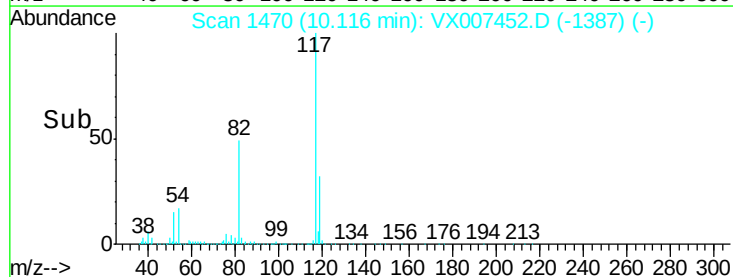
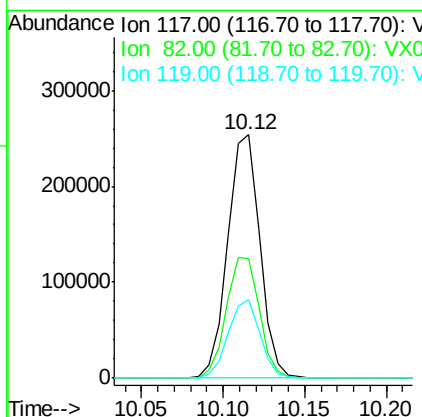
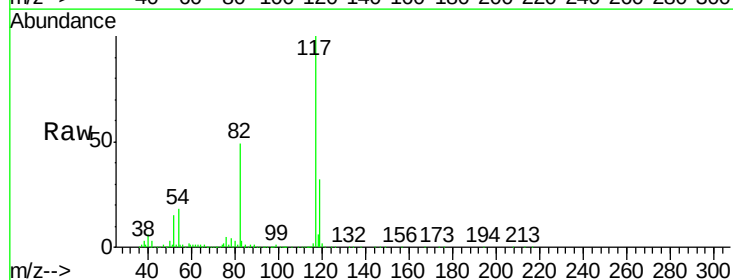
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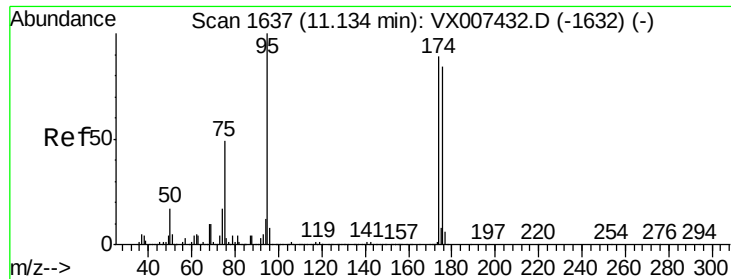
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#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX007452.D
Acq: 08 Feb 2019 19:42

Tgt Ion	117	Resp	348691
Ion	Ratio	Lower	Upper
117	100		
82	51.0	41.4	62.0
119	31.9	25.7	38.5





#60

4-Bromofluorobenzene

Concen: 28.348 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007452.D

Acq: 08 Feb 2019 19:42

Instrument :

MSVOA_X

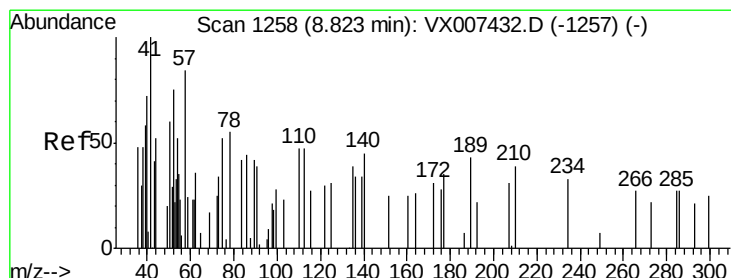
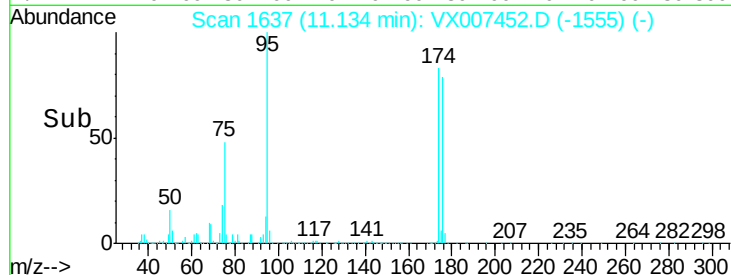
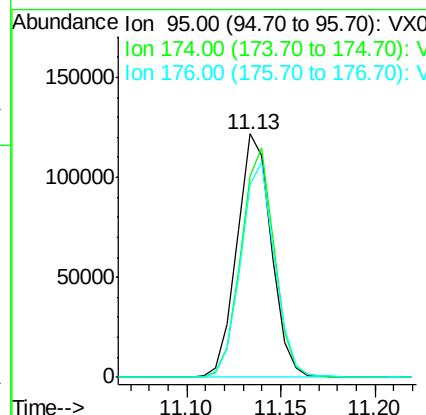
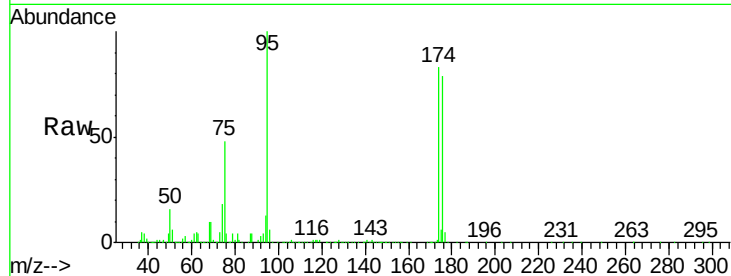
ClientSampleId :

SHORE-RD-BOX-CULVERT-TP

Tot Ion:	95	Resp:	152563
Ion Ratio	Lower	Upper	
95	100		
174	93.0	74.8	112.2
176	88.6	72.5	108.7

Manual Integrations
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#62

Toluene

Concen: 0.693 ug/l

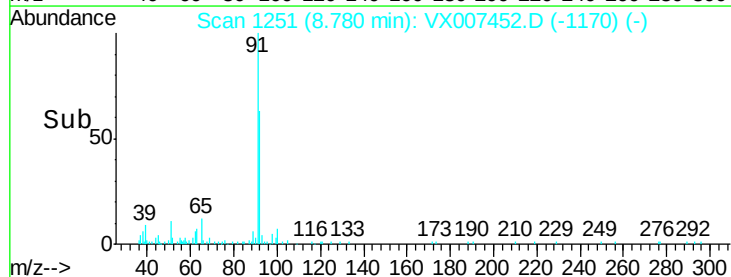
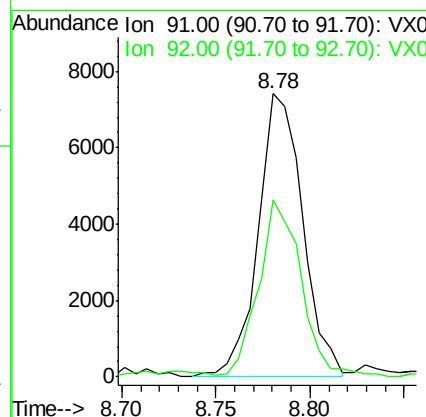
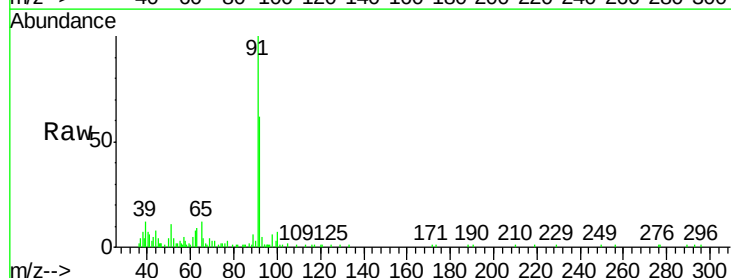
RT: 8.78 min Scan# 1251

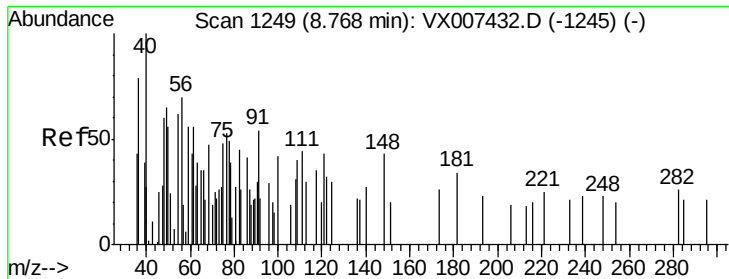
Delta R.T. -0.01 min

Lab File: VX007452.D

Acq: 08 Feb 2019 19:42

Tgt Ion:	91	Resp:	12161
Ion Ratio	Lower	Upper	
91	100		
92	59.8	46.0	69.0





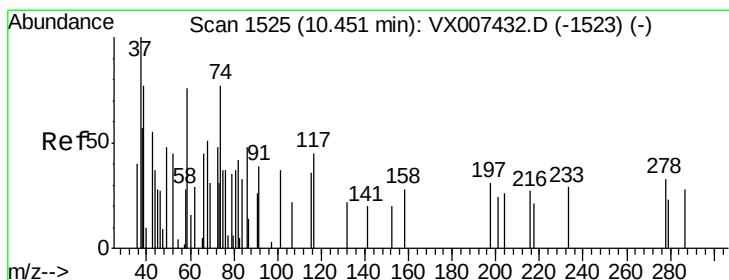
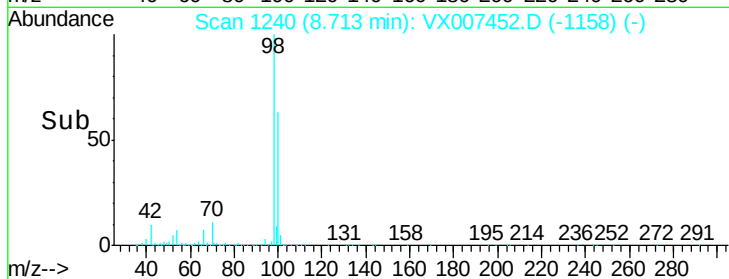
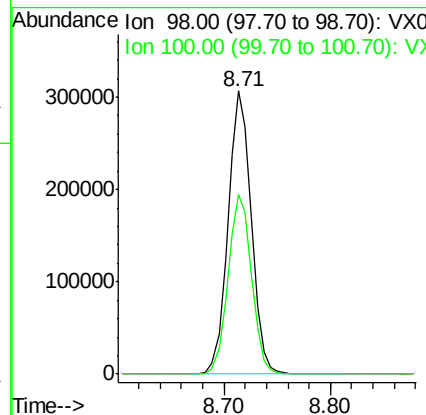
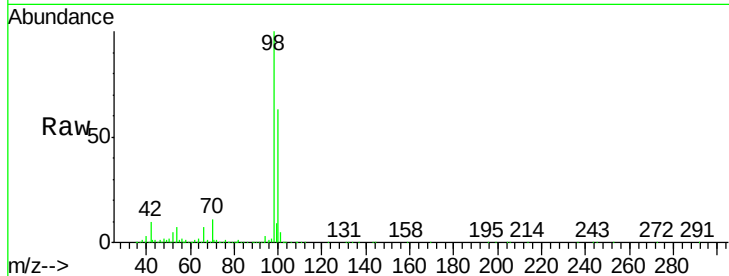
#63
Toluene-d8
Concen: 29.666 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX007452.D
Acq: 08 Feb 2019 19:42

Instrument :
MSVOA_X
ClientSampleId :
SHORE-RD-BOX-CULVERT-TP

Tot Ion: 98 Resp: 466258
Ion Ratio Lower Upper
98 100
100 64.1 49.9 74.9

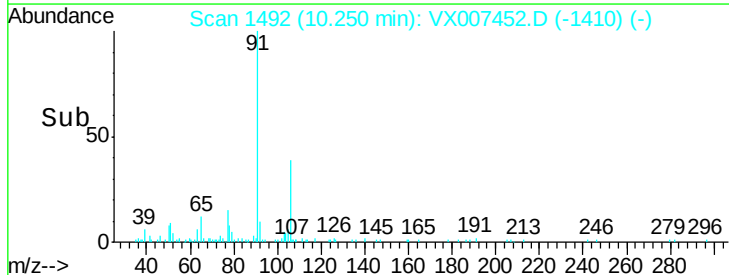
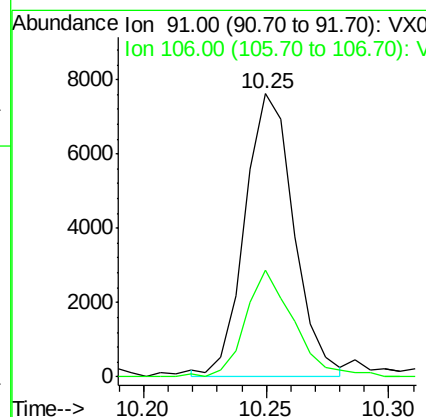
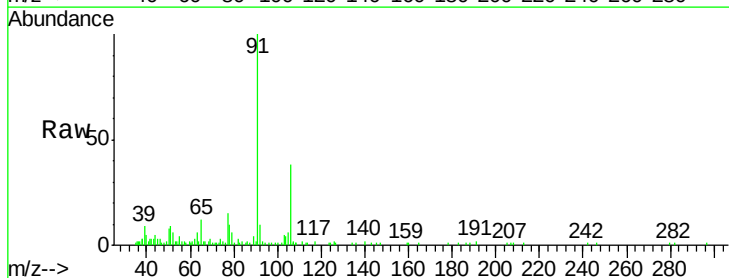
Manual Integrations
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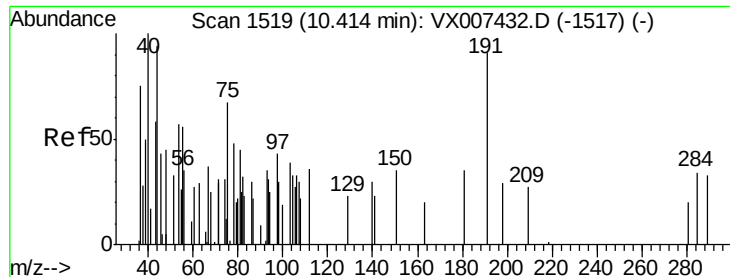
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2/11/2019 9:39:46 AM



#66
Ethyl Benzene
Concen: 0.557 ug/l m
RT: 10.25 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VX007452.D
Acq: 08 Feb 2019 19:42

Tgt Ion: 91 Resp: 10596
Ion Ratio Lower Upper
91 100
106 37.9 25.1 37.7#





#67

m/p-Xylenes

Concen: 3.410 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX007452.D

Acq: 08 Feb 2019 19:42

Instrument :

MSVOA_X

ClientSampleId :

SHORE-RD-BOX-CULVERT-TP

Tot Ion:106 Resp: 25609

Ion Ratio Lower Upper

106 100

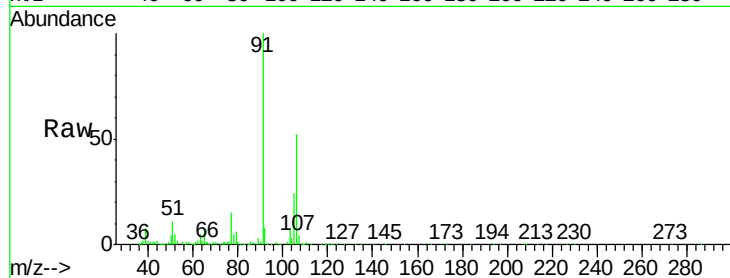
91 191.0 157.6 236.4

Manual Integrations

APPROVED

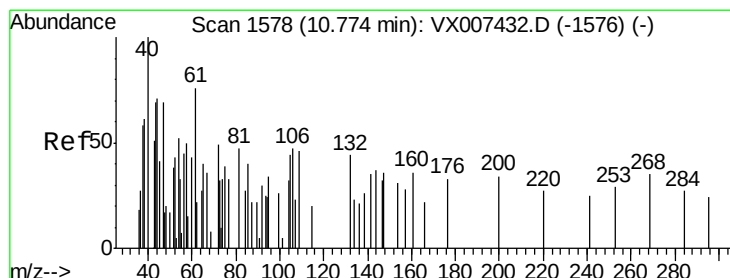
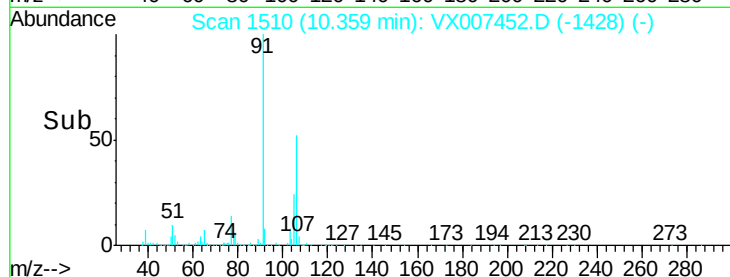
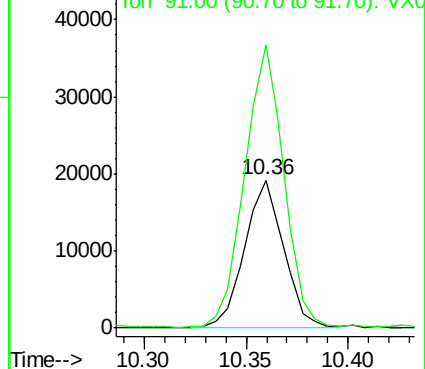
MMDadoda

2/11/2019 9:39:46 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#68

o-Xylene

Concen: 0.542 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VX007452.D

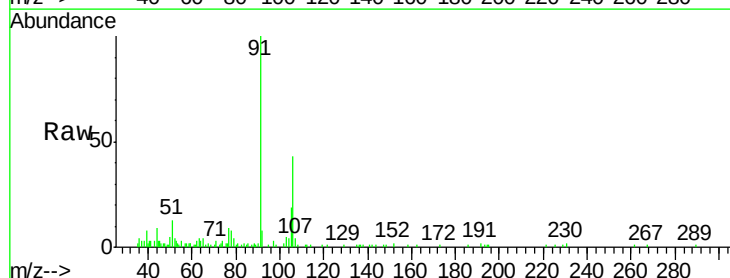
Acq: 08 Feb 2019 19:42

Tgt Ion:106 Resp: 3989

Ion Ratio Lower Upper

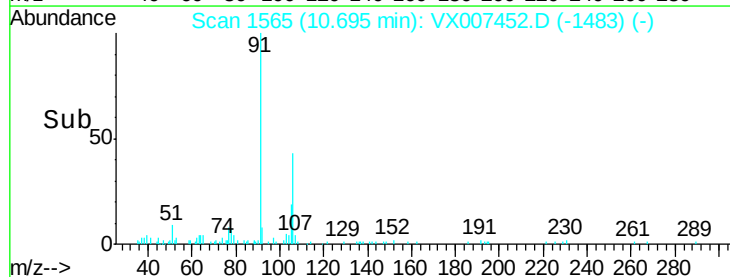
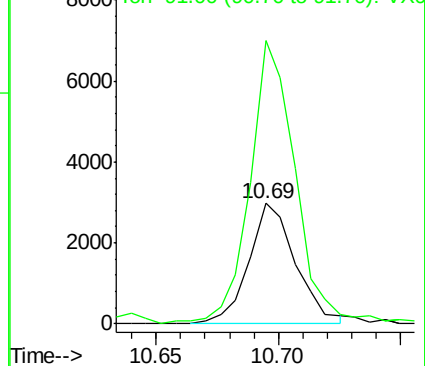
106 100

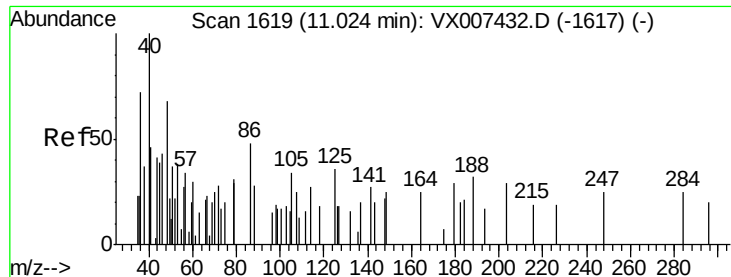
91 224.5 103.6 310.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





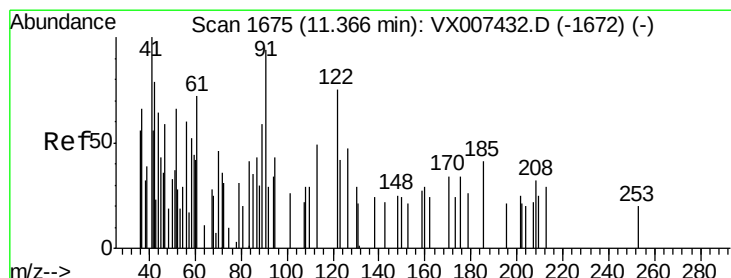
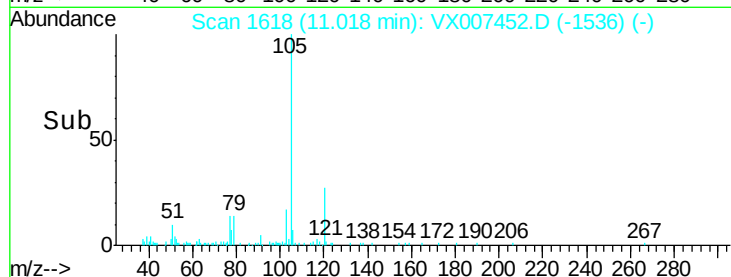
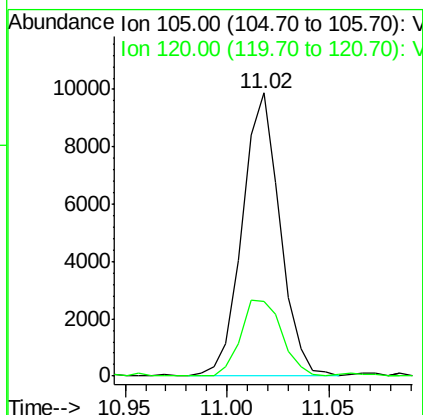
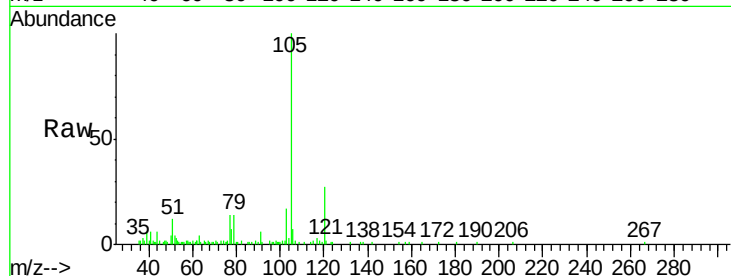
#70
Isopropylbenzene
Concen: 0.653 ug/l
RT: 11.02 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VX007452.D
Acq: 08 Feb 2019 19:42

Instrument :
MSVOA_X
ClientSampleId :
SHORE-RD-BOX-CULVERT-TP

Tot Ion	Ratio	Lower	Upper
105	100		
120	29.3	19.9	36.9

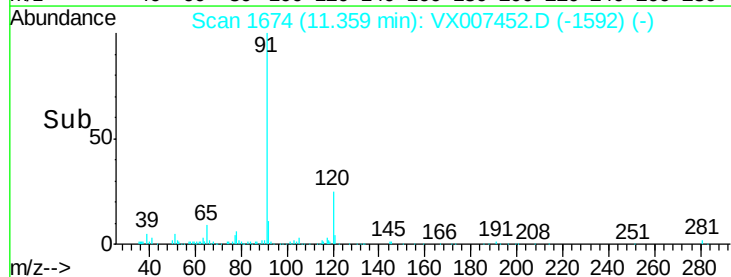
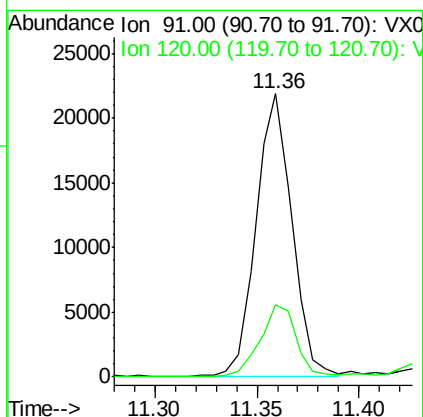
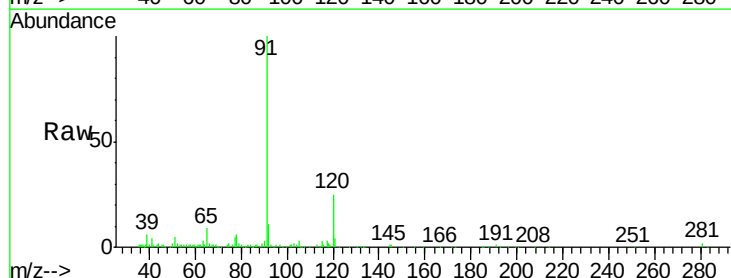
Manual Integrations
APPROVED

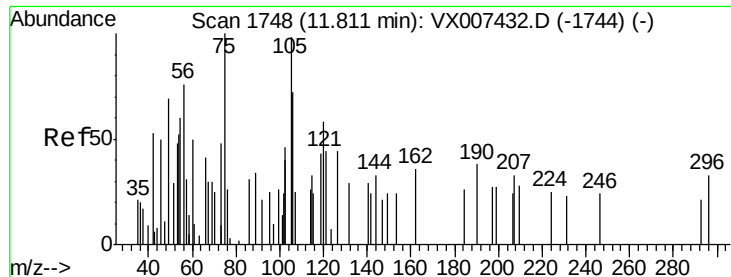
MMDadoda
2/11/2019 9:39:46 AM



#74
n-propylbenzene
Concen: 1.227 ug/l
RT: 11.36 min Scan# 1674
Delta R.T. -0.00 min
Lab File: VX007452.D
Acq: 08 Feb 2019 19:42

Tgt Ion	Ratio	Lower	Upper
91	100		
120	25.7	0.0	48.0





#80

1,2,4-Trimethylbenzene

Concen: 0.435 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. -0.00 min

Lab File: VX007452.D

Acq: 08 Feb 2019 19:42

Instrument :

MSVOA_X

ClientSampleId :

SHORE-RD-BOX-CULVERT-TP

Tot Ion:105 Resp: 7167

Ion Ratio Lower Upper

105 100

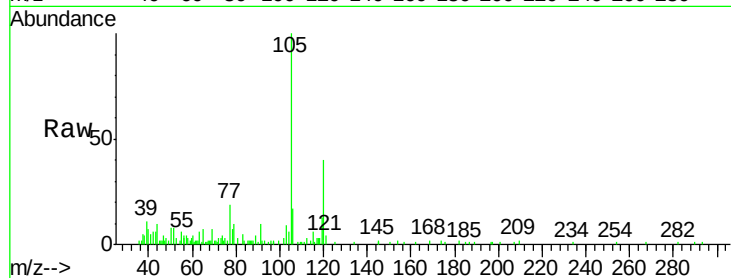
120 43.2 0.0 94.4

Manual Integrations

APPROVED

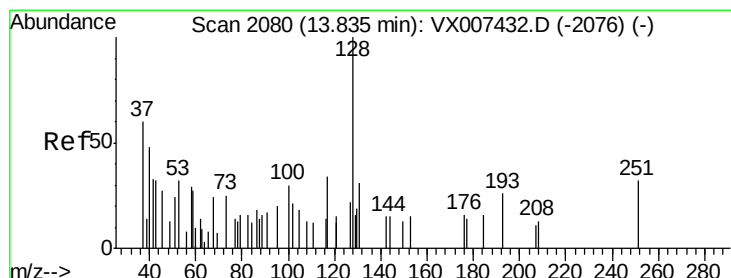
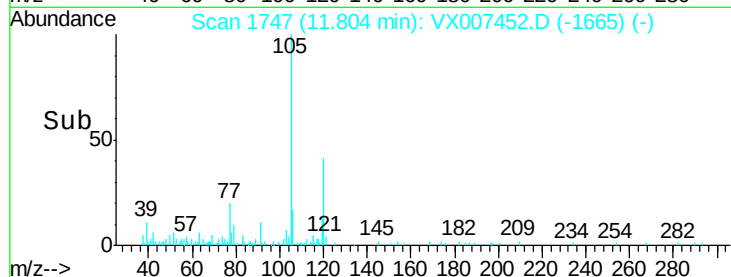
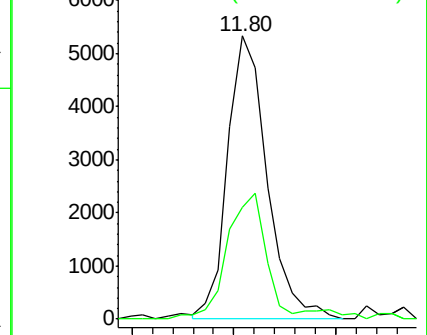
MMDadoda

2/11/2019 9:39:46 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#91

Naphthalene

Concen: 1.306 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX007452.D

Acq: 08 Feb 2019 19:42

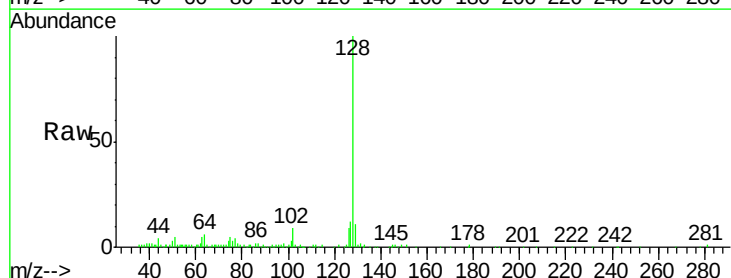
Tgt Ion:128 Resp: 25894

Ion Ratio Lower Upper

128 100

127 14.7 10.6 16.0

129 12.5 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

