

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN060719\
 Data File : VN056071.D
 Acq On : 7 Jun 2019 2:39
 Operator : JC/SP
 Sample : K3203-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LF015MW045-190604

Manual Integrations
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 6/11/2019 12:47:04 PM

Quant Time: Jun 11 12:40:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	340020	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	507862	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	508446	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	241282	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	171884	50.91	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.82%	
35) Dibromofluoromethane	7.59	113	152421	48.92	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.84%	
50) Toluene-d8	10.09	98	648715	54.10	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	108.20%	
62) 4-Bromofluorobenzene	12.40	95	240302	58.93	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	117.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.18	62	16279365	4403.132	ug/l #	86
6) Chloroethane	2.69	64	13308	6.208	ug/l	98
11) Tert butyl alcohol	4.82	59	7085	12.059	ug/l #	86
12) 1,1-Dichloroethene	3.72	96	3355	1.175	ug/l	95
20) Methylene Chloride	4.54	84	3323	0.999	ug/l	98
27) cis-1,2-Dichloroethene	6.82	96	1391979	387.193	ug/l	90
39) Methylcyclohexane	9.08	83	2268	0.417	ug/l #	82
40) Benzene	8.04	78	1472934	111.054	ug/l	100
44) Trichloroethene	8.83	130	1805	0.474	ug/l	96
45) 1,2-Dichloropropane	9.12	63	2004	0.590	ug/l #	86
52) Toluene	10.16	92	312668	37.884	ug/l	100
65) Chlorobenzene	11.43	112	20055558m	1981.951	ug/l	
67) Ethyl Benzene	11.51	91	44446	2.526	ug/l	99
68) m/p-Xylenes	11.62	106	19234	2.861	ug/l	100
69) o-Xylene	11.95	106	29393	4.446	ug/l	97
78) n-propylbenzene	12.59	91	12800	0.627	ug/l	94
80) 1,3,5-Trimethylbenzene	12.73	105	18349	1.131	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	5536	0.360	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	461810	57.761	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	3433780	446.468	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	9486126	1175.189	ug/l	100
95) Naphthalene	15.13	128	12669	4.865	ug/l	97

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

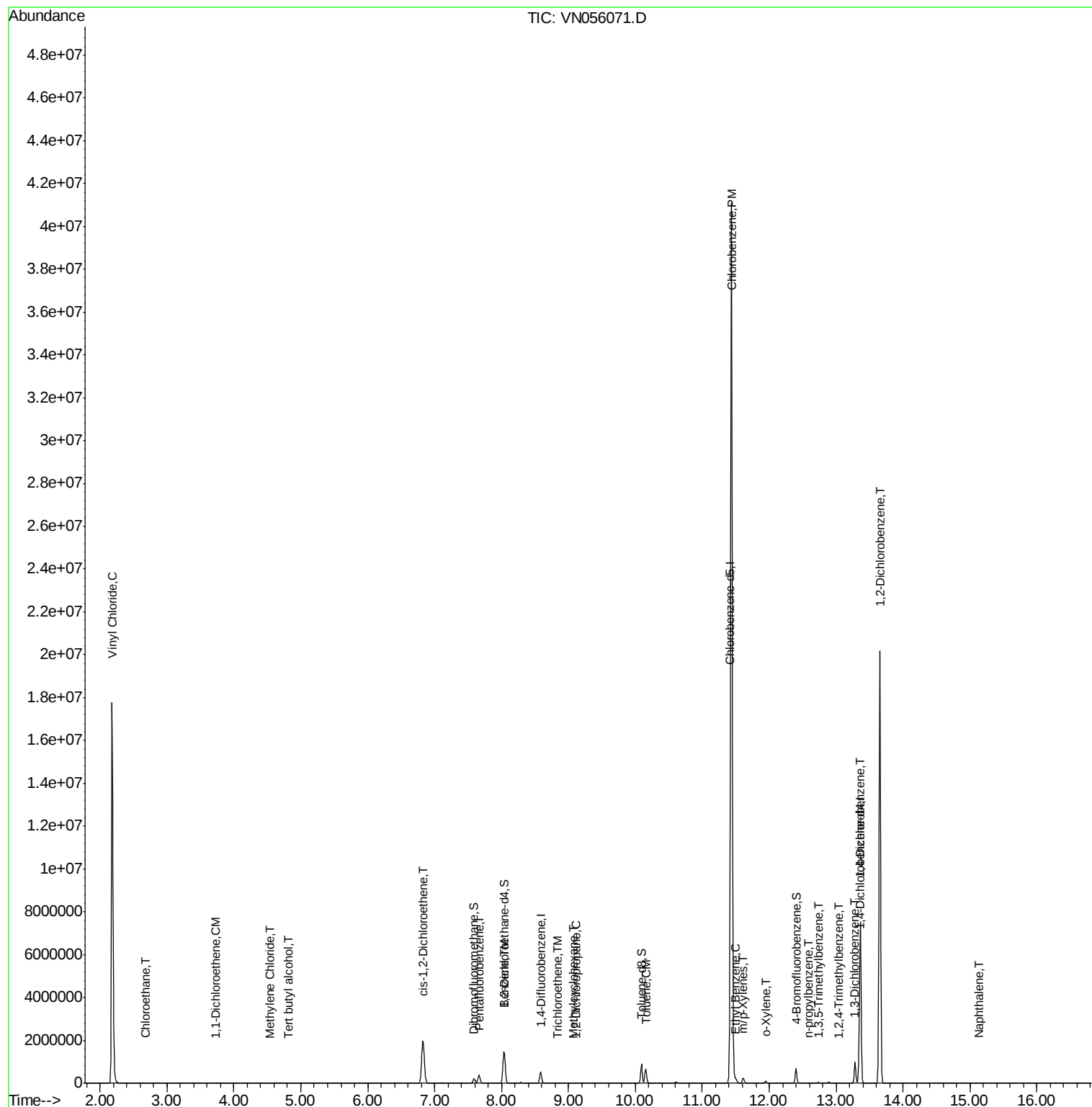
Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN060719\
Data File : VN056071.D
Acq On : 7 Jun 2019 2:39
Operator : JC/SP
Sample : K3203-09
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 44 Sample Multiplier: 1

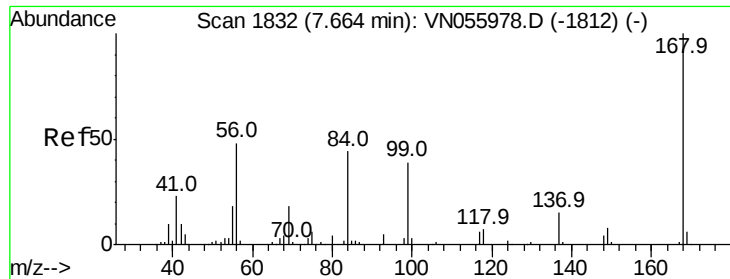
Instrument :
MSVOA_N
ClientSampleId :
LF015MW045-190604

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Quant Time: Jun 11 12:40:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056071.D

Acq: 7 Jun 2019 2:39

Instrument :

MSVOA_N

ClientSampleId :

LF015MW045-190604

Tot Ion:168 Resp: 340020

Ion Ratio Lower Upper

168 100

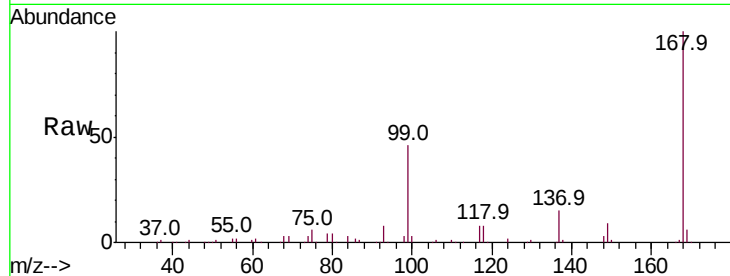
99 46.1 37.2 55.8

Manual Integrations

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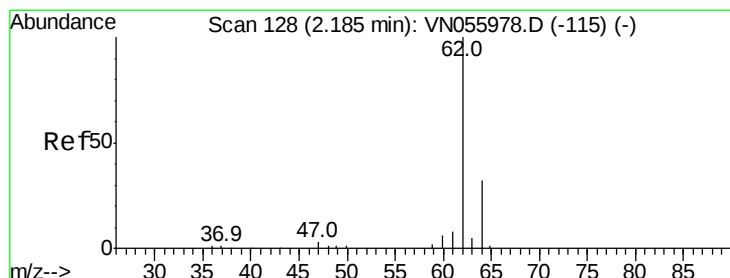
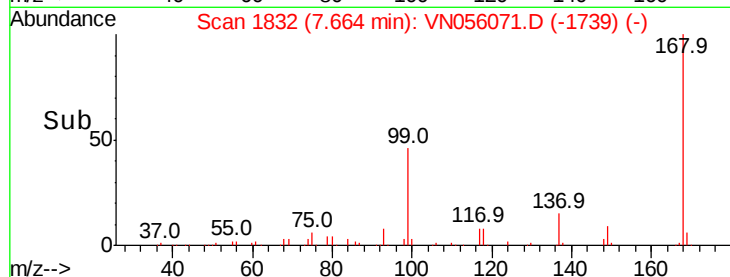
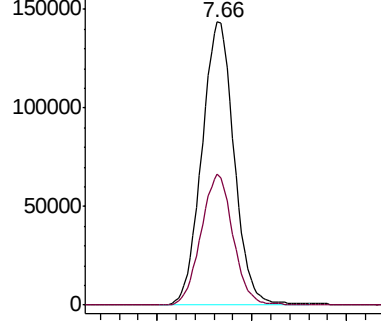
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#4

Vinyl Chloride

Concen: 4403.132 ug/l

RT: 2.18 min Scan# 125

Delta R.T. -0.01 min

Lab File: VN056071.D

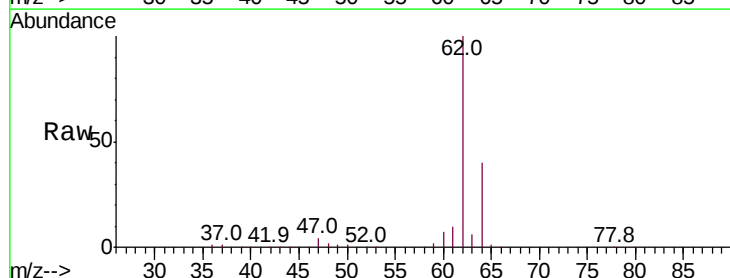
Acq: 7 Jun 2019 2:39

Tgt Ion: 62 Resp:16279365

Ion Ratio Lower Upper

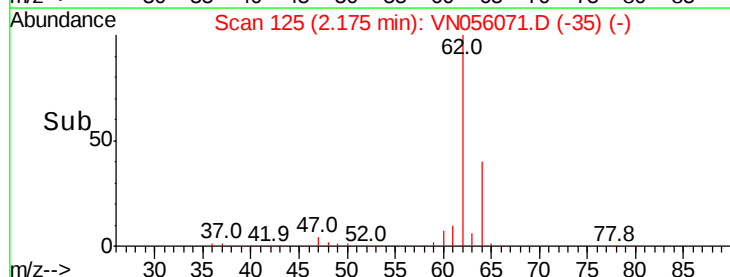
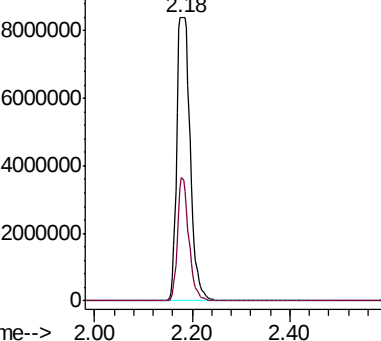
62 100

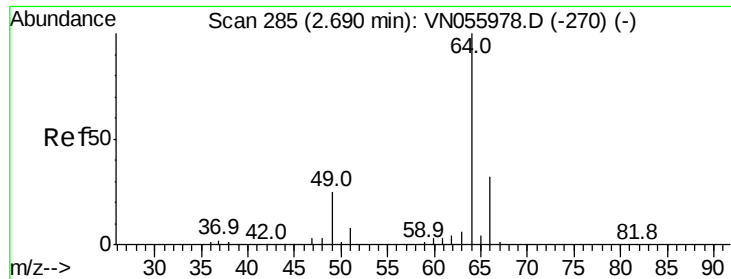
64 40.0 25.6 38.4#



Abundance Ion 61.90 (61.60 to 62.60): VN

Ion 63.90 (63.60 to 64.60): VN





#6

Chloroethane

Concen: 6.208 ug/l

RT: 2.69 min Scan# 284

Delta R.T. -0.00 min

Lab File: VN056071.D

Acq: 7 Jun 2019 2:39

Instrument :

MSVOA_N

ClientSampleId :

LF015MW045-190604

Tot Ion: 64 Resp: 13308

Ion Ratio Lower Upper

64 100

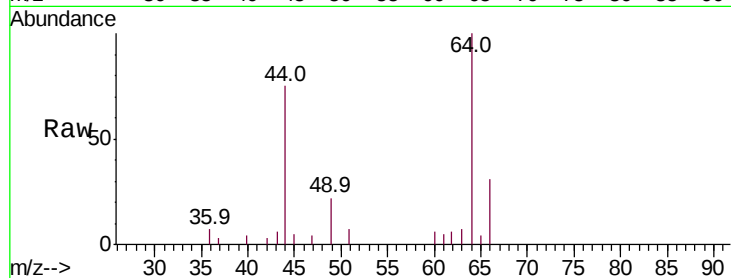
66 30.7 25.4 38.0

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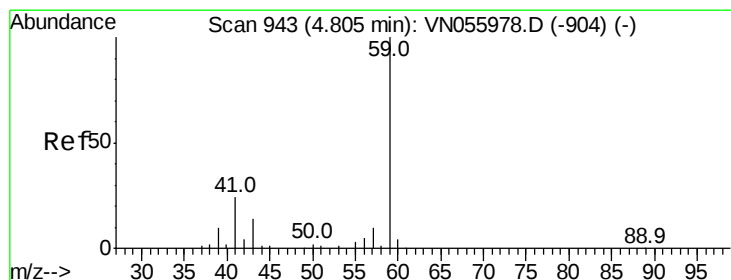
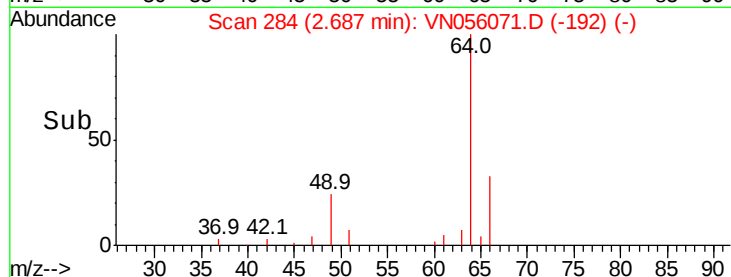
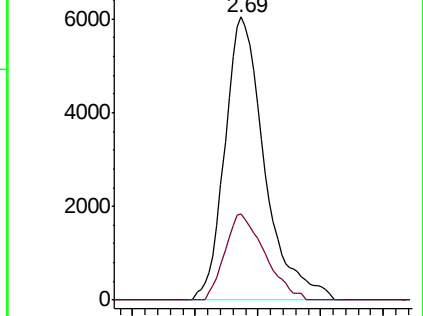
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Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



#11

Tert butyl alcohol

Concen: 12.059 ug/l

RT: 4.82 min Scan# 947

Delta R.T. 0.01 min

Lab File: VN056071.D

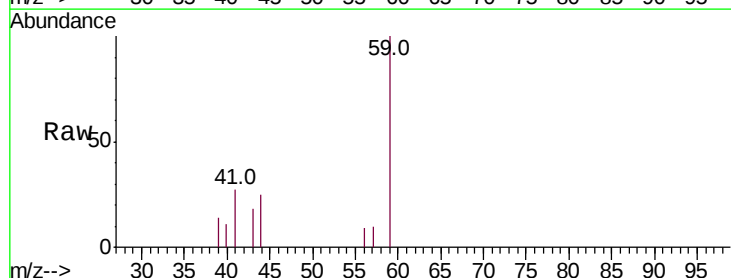
Acq: 7 Jun 2019 2:39

Tgt Ion: 59 Resp: 7085

Ion Ratio Lower Upper

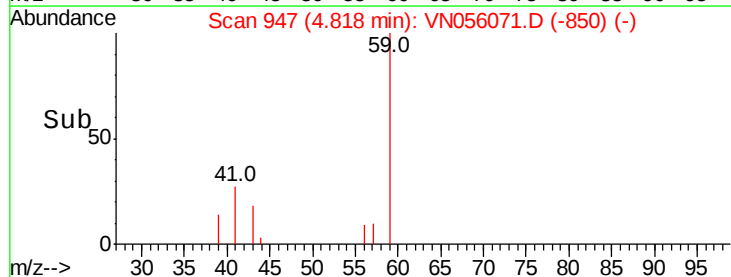
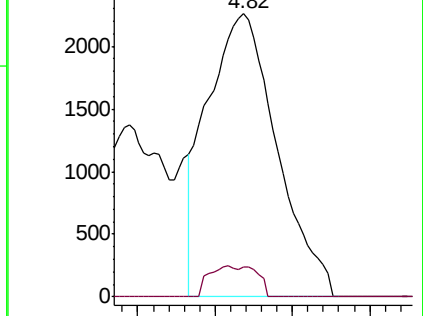
59 100

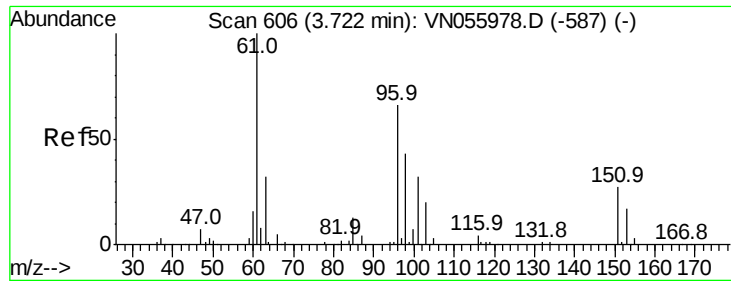
57 4.6 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





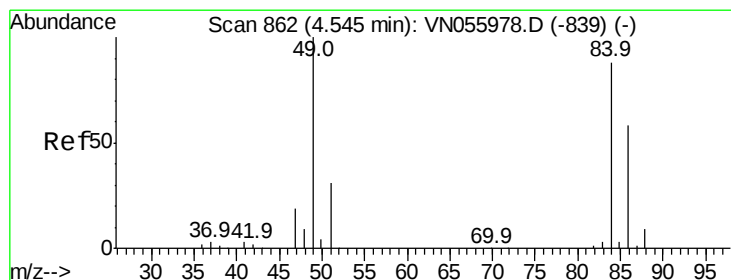
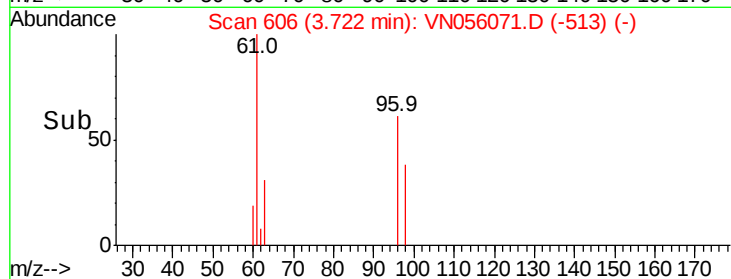
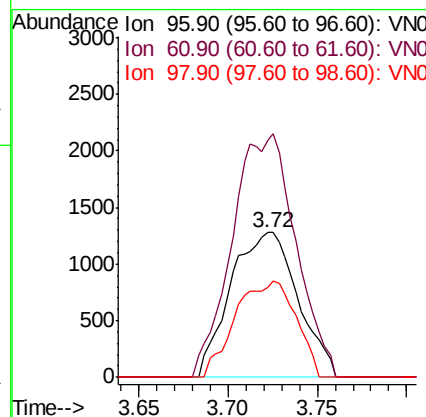
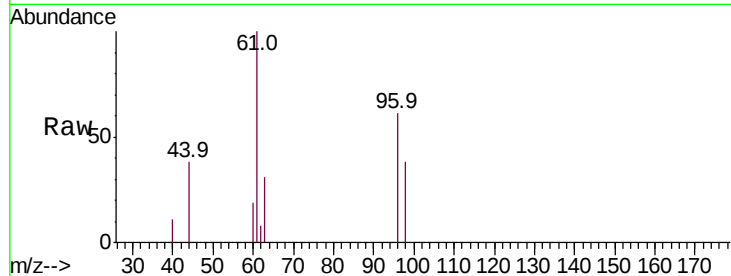
#12
1,1-Dichloroethene
Concen: 1.175 ug/l
RT: 3.72 min Scan# 606
Delta R.T. 0.00 min
Lab File: VN056071.D
Acq: 7 Jun 2019 2:39

Instrument :
MSVOA_N
ClientSampleId :
LF015MW045-190604

Tot Ion	Ratio	Lower	Upper
96	100		
61	163.3	123.2	184.8
98	62.2	50.4	75.6

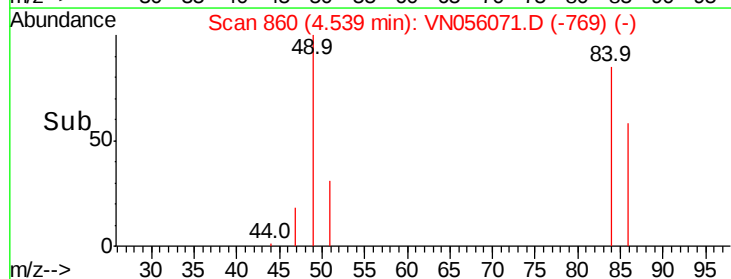
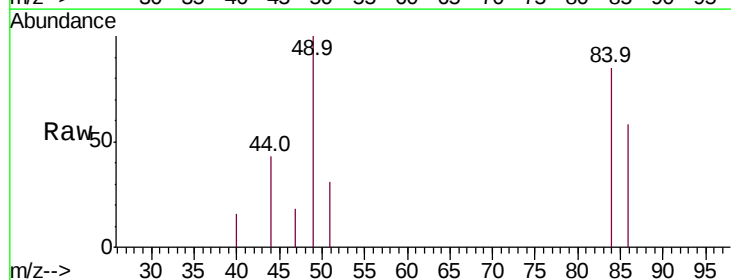
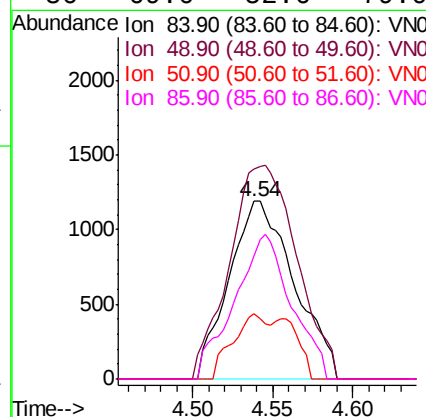
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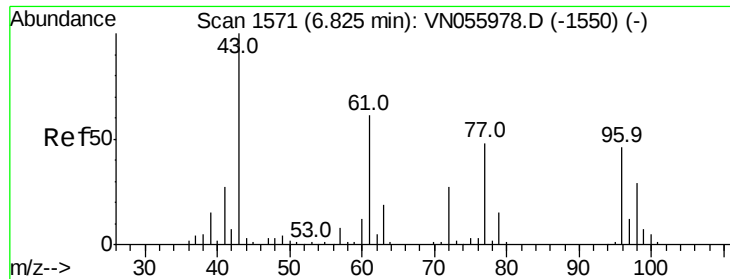
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#20
Methylene Chloride
Concen: 0.999 ug/l
RT: 4.54 min Scan# 860
Delta R.T. -0.01 min
Lab File: VN056071.D
Acq: 7 Jun 2019 2:39

Tgt Ion	Ratio	Lower	Upper
84	100		
49	118.2	93.5	140.3
51	36.4	28.6	43.0
86	69.0	52.6	79.0





#27

cis-1,2-Dichloroethene

Concen: 387.193 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN056071.D

Acq: 7 Jun 2019 2:39

Instrument :

MSVOA_N

ClientSampleId :

LF015MW045-190604

Tot Ion: 96 Resp: 1391979

Ion Ratio Lower Upper

96 100

61 119.7 0.0 275.8

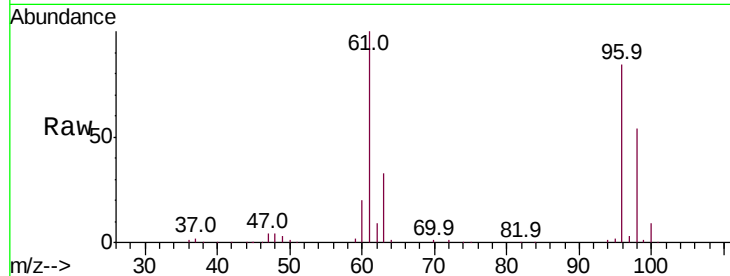
98 64.7 0.0 128.4

Manual Integrations

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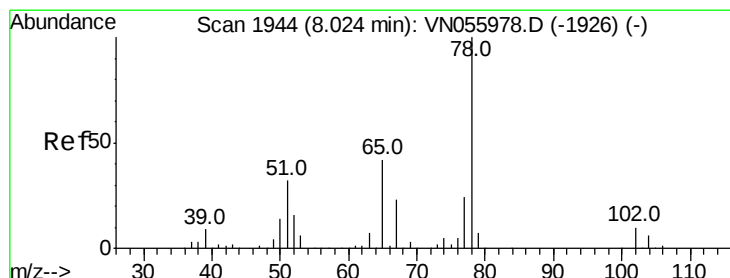
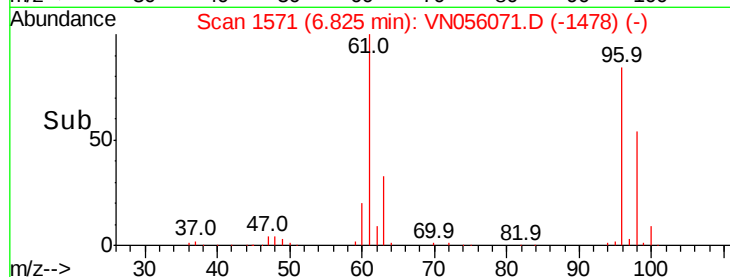
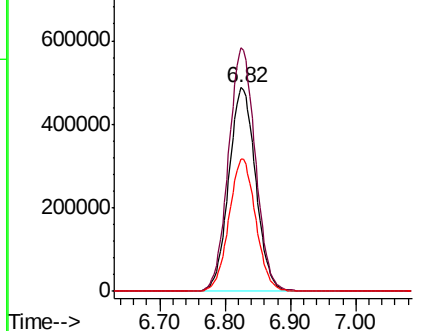
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Abundance Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#33

1,2-Dichloroethane-d4

Concen: 50.912 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056071.D

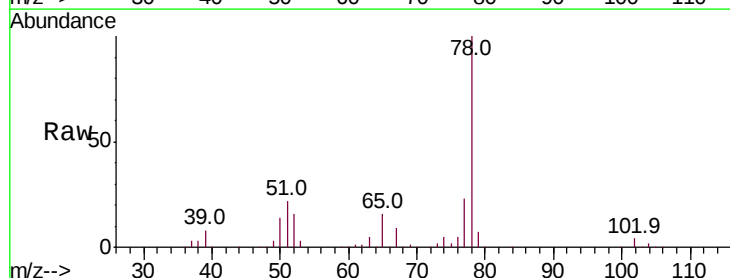
Acq: 7 Jun 2019 2:39

Tgt Ion: 65 Resp: 171884

Ion Ratio Lower Upper

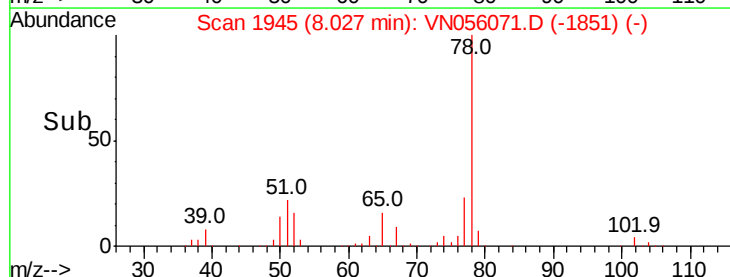
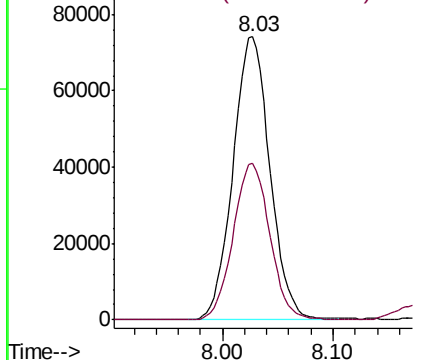
65 100

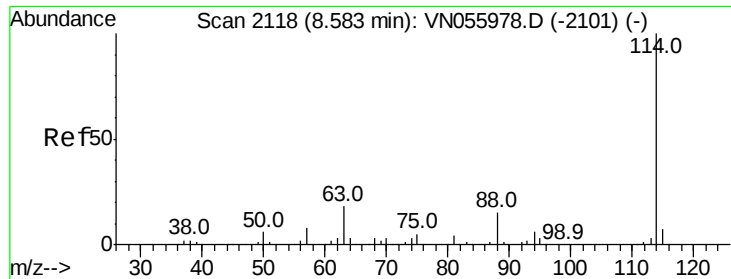
67 54.9 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VNC

Ion 66.90 (66.60 to 67.60): VNC





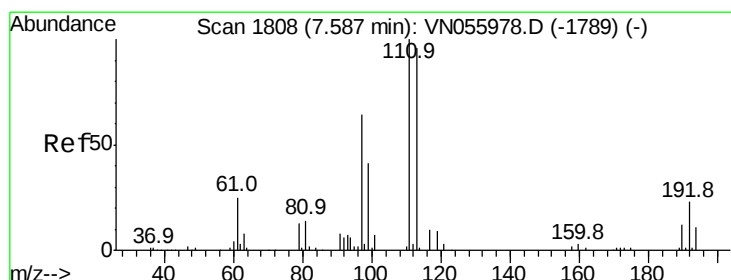
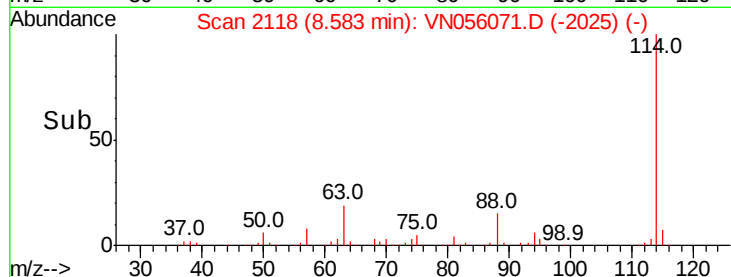
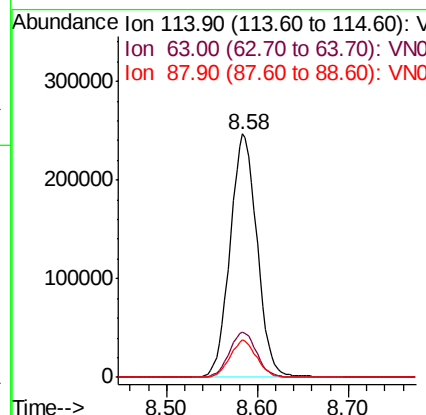
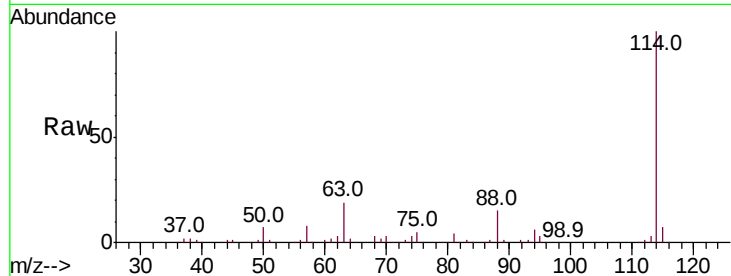
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056071.D
 Acq: 7 Jun 2019 2:39

Instrument :
 MSVOA_N
 ClientSampleId :
 LF015MW045-190604

Tot Ion	Ratio	Resp Lower	Upper
114	100		
63	18.7	0.0	39.2
88	15.2	0.0	31.0

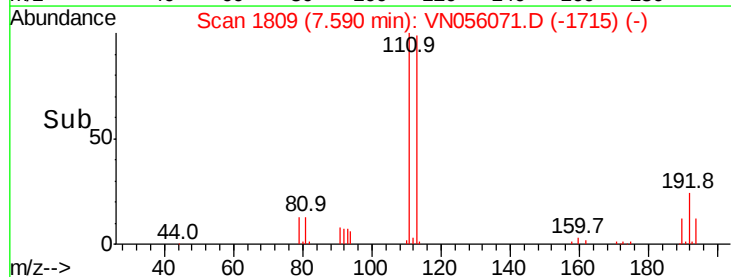
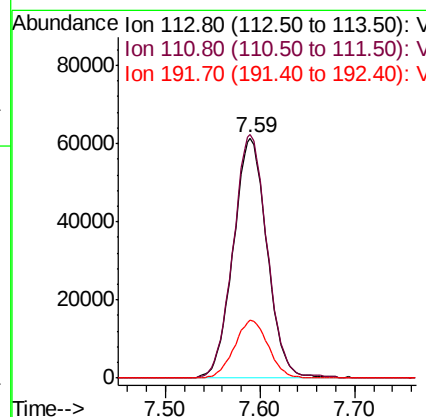
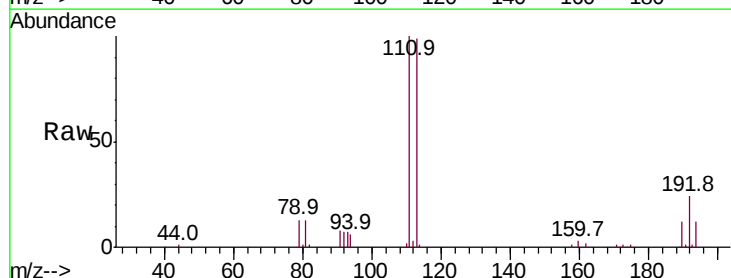
Manual Integrations
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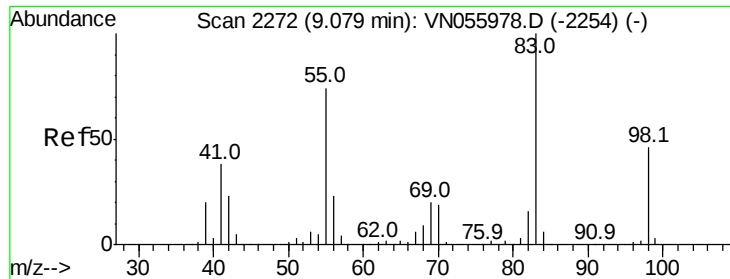
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#35
 Dibromofluoromethane
 Concen: 48.917 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056071.D
 Acq: 7 Jun 2019 2:39

Tgt Ion	Ratio	Resp Lower	Upper
113	100		
111	102.0	81.9	122.9
192	24.1	19.5	29.3





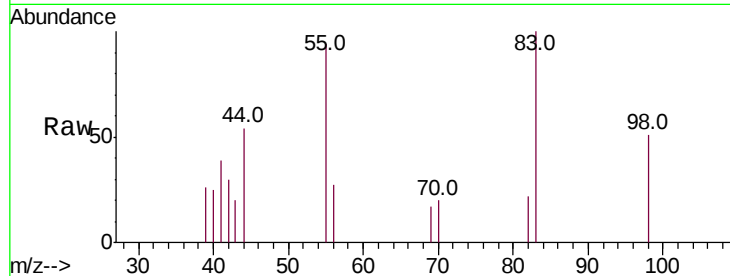
#39
Methvlcvclohexane
Concen: 0.417 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN056071.D
Acq: 7 Jun 2019 2:39

Instrument :
MSVOA_N
ClientSampleId :
LF015MW045-190604

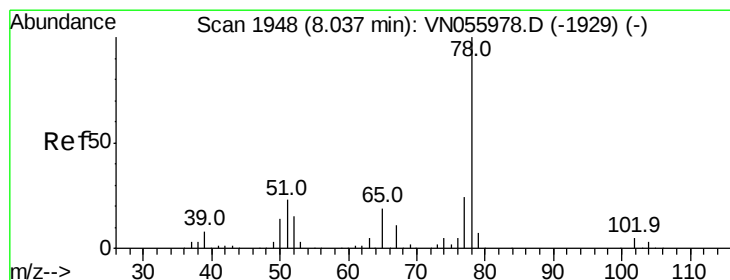
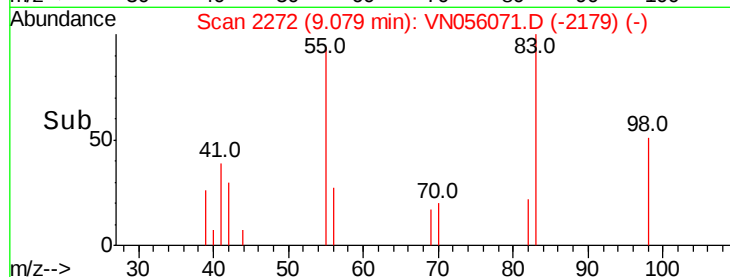
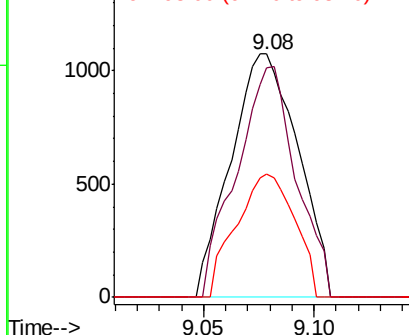
Tot Ion	Ratio	Lower	Upper
83	100		
55	94.3	59.3	88.9#
98	50.6	36.6	54.8

Manual Integrations
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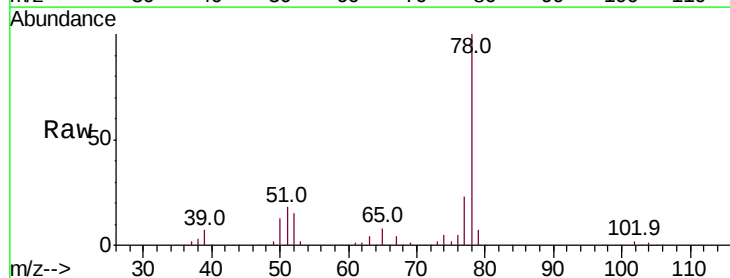


Abundance Ion 83.00 (82.70 to 83.70): VNC
Ion 55.00 (54.70 to 55.70): VNC
Ion 98.00 (97.70 to 98.70): VNC

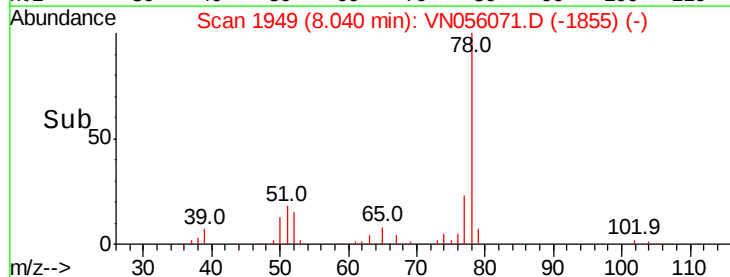
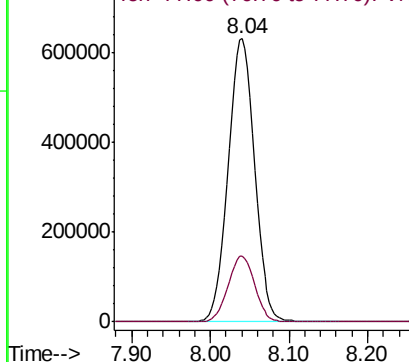


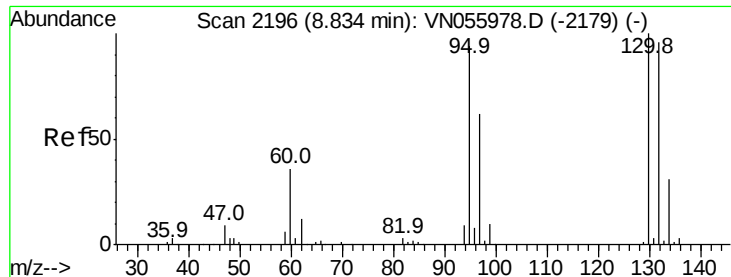
#40
Benzene
Concen: 111.054 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN056071.D
Acq: 7 Jun 2019 2:39

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.8	28.2



Abundance Ion 78.00 (77.70 to 78.70): VNC
Ion 77.00 (76.70 to 77.70): VNC





#44

Trichloroethene

Concen: 0.474 ug/l

RT: 8.83 min Scan# 2195

Delta R.T. -0.00 min

Lab File: VN056071.D

Acq: 7 Jun 2019 2:39

Instrument :

MSVOA_N

ClientSampleId :

LF015MW045-190604

Tot Ion:130 Resp: 1805

Ion Ratio Lower Upper

130 100

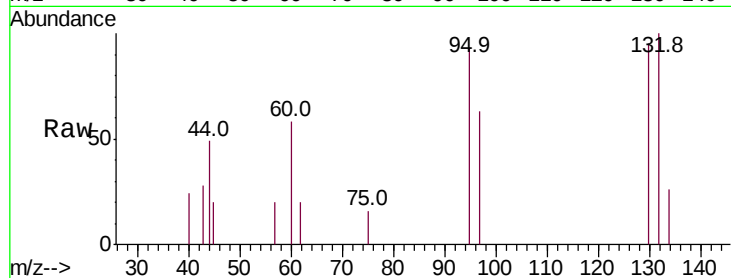
95 97.6 0.0 188.0

Manual Integrations

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Abundance Ion 129.80 (129.50 to 130.50): VN055978.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN055978.D (-2179) (-)

8.83

800

600

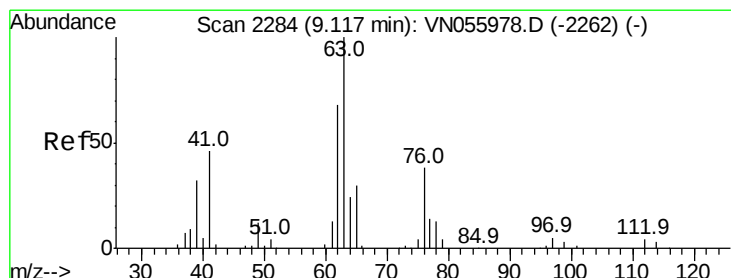
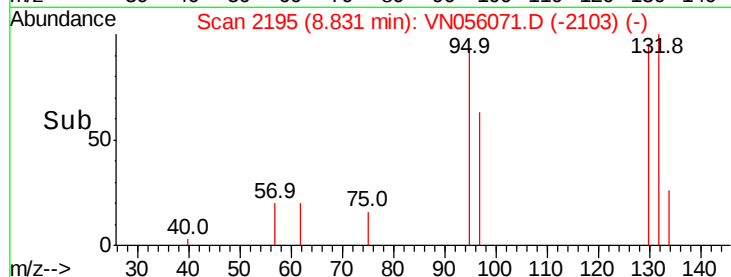
400

200

0

8.80 8.85

Time-->



#45

1,2-Dichloropropane

Concen: 0.590 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. 0.00 min

Lab File: VN056071.D

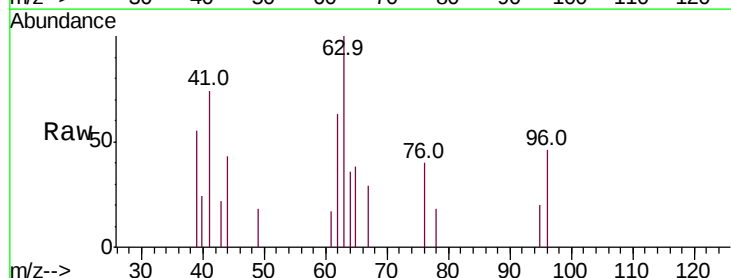
Acq: 7 Jun 2019 2:39

Tgt Ion: 63 Resp: 2004

Ion Ratio Lower Upper

63 100

65 38.3 24.6 36.8#



Abundance Ion 62.90 (62.60 to 63.60): VN055978.D (-2262) (-)

Ion 64.90 (64.60 to 65.60): VN055978.D (-2262) (-)

9.12

1000

800

600

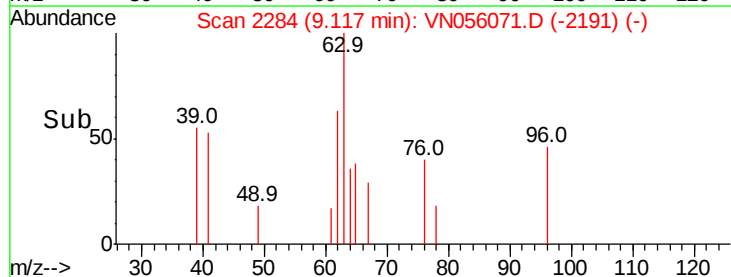
400

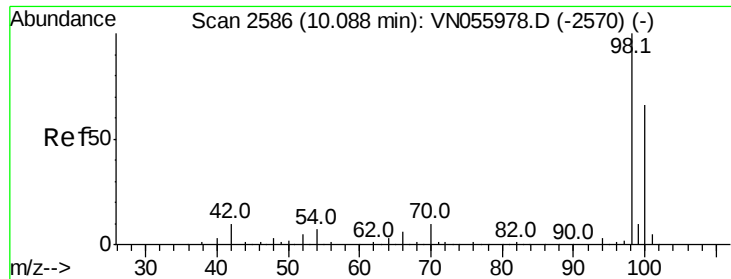
200

0

9.10 9.15

Time-->





#50

Toluene-d8

Concen: 54.105 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056071.D

Acq: 7 Jun 2019 2:39

Instrument :

MSVOA_N

ClientSampleId :

LF015MW045-190604

Tot Ion: 98 Resp: 648715

Ion Ratio Lower Upper

98 100

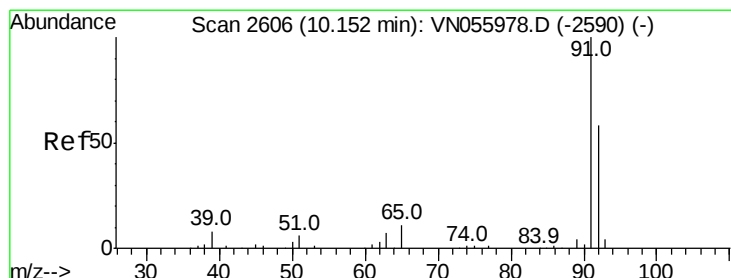
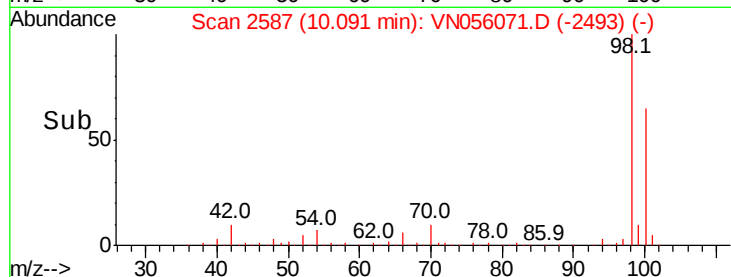
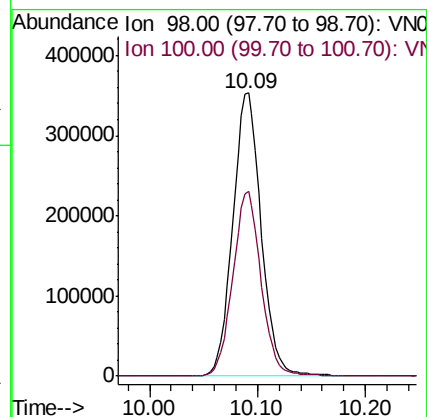
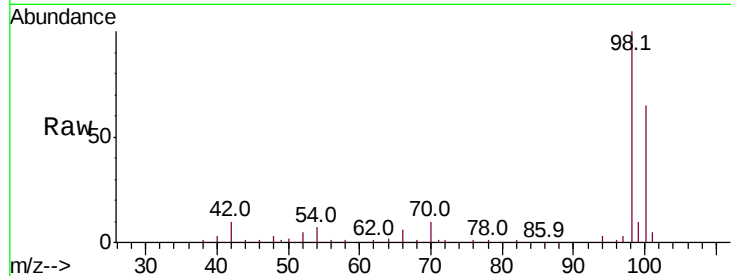
100 65.0 51.9 77.9

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#52

Toluene

Concen: 37.884 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056071.D

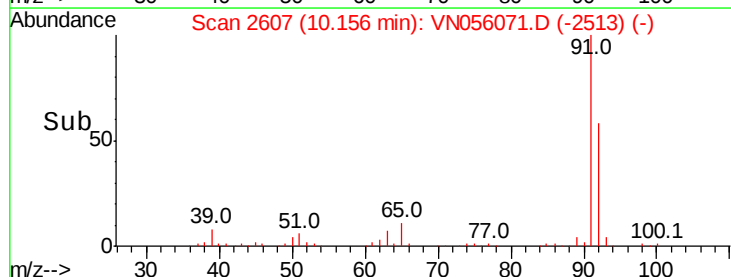
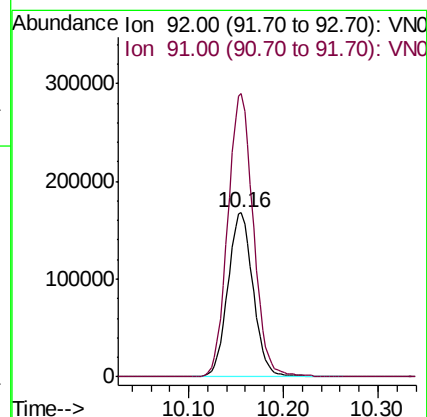
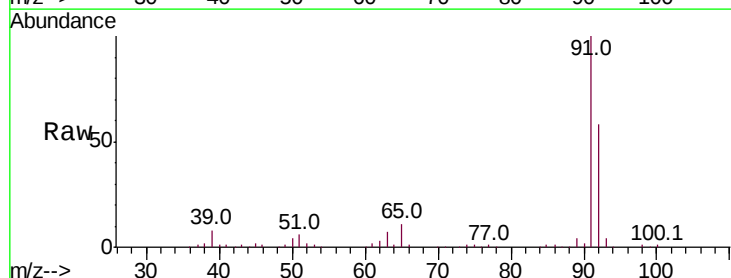
Acq: 7 Jun 2019 2:39

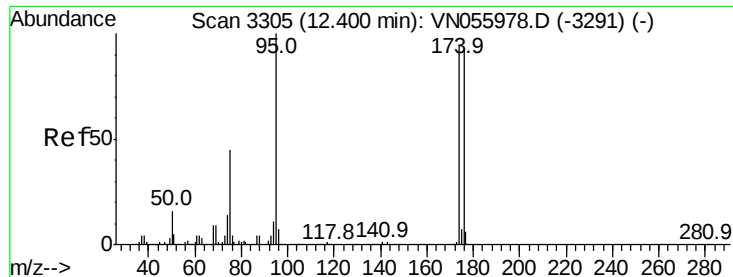
Tgt Ion: 92 Resp: 312668

Ion Ratio Lower Upper

92 100

91 174.4 139.4 209.2





#62

4-Bromofluorobenzene

Concen: 58.934 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056071.D

Acq: 7 Jun 2019 2:39

Instrument :

MSVOA_N

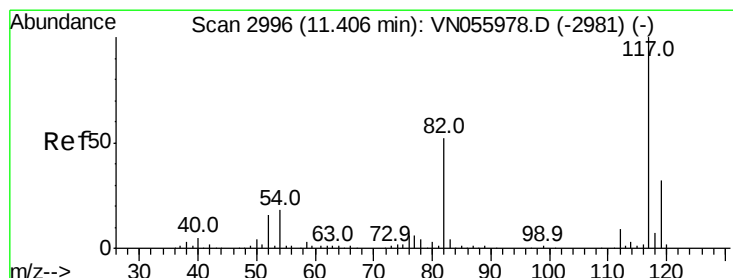
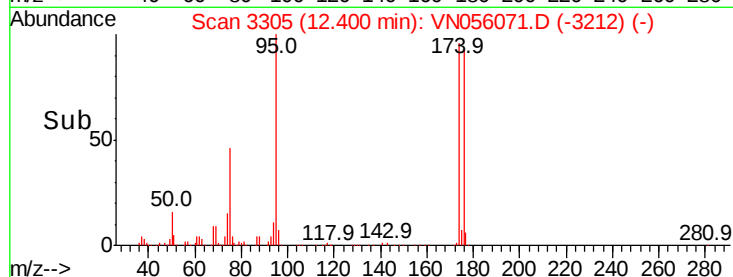
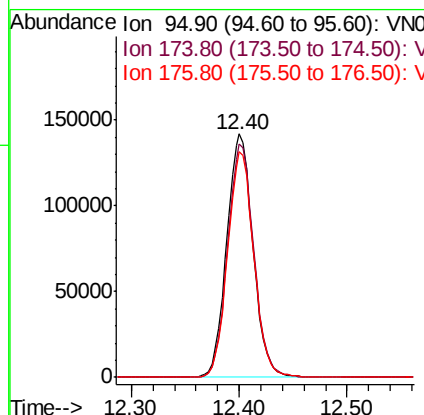
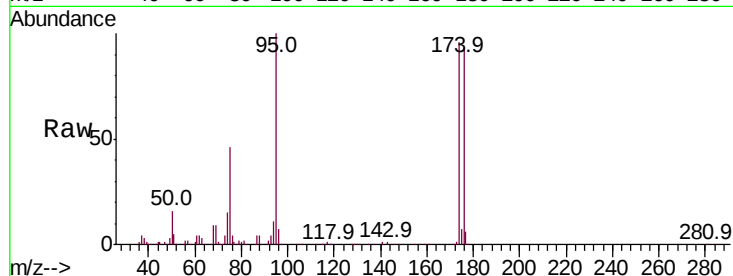
ClientSampleId :

LF015MW045-190604

Tot Ion:	95	Resp:	240302
Ion Ratio	Lower	Upper	
95	100		
174	95.9	0.0	191.0
176	92.4	0.0	185.2

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

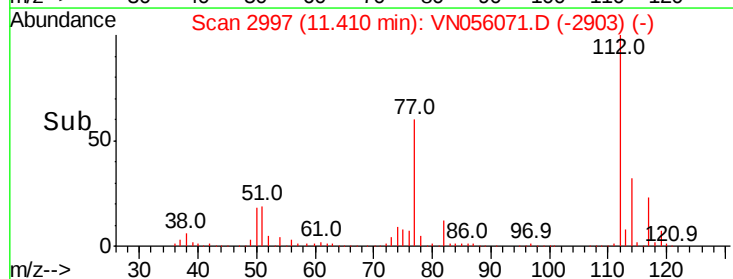
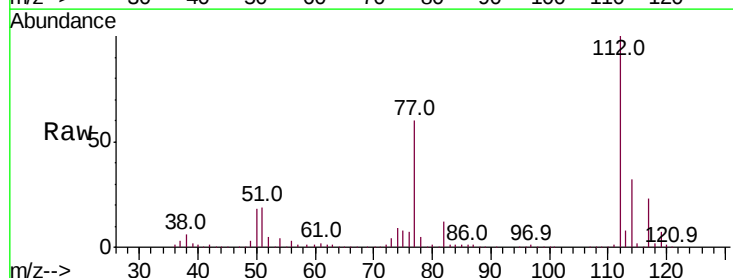
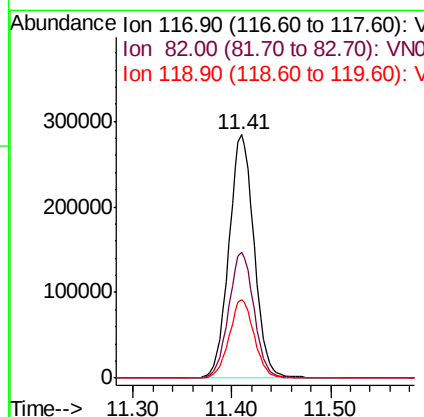
RT: 11.41 min Scan# 2997

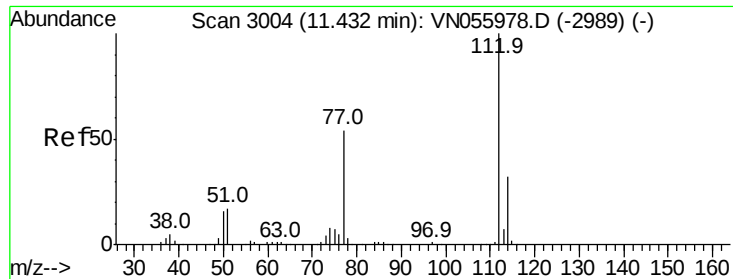
Delta R.T. 0.00 min

Lab File: VN056071.D

Acq: 7 Jun 2019 2:39

Tgt Ion:	117	Resp:	508446
Ion Ratio	Lower	Upper	
117	100		
82	51.7	41.8	62.8
119	32.3	25.4	38.0





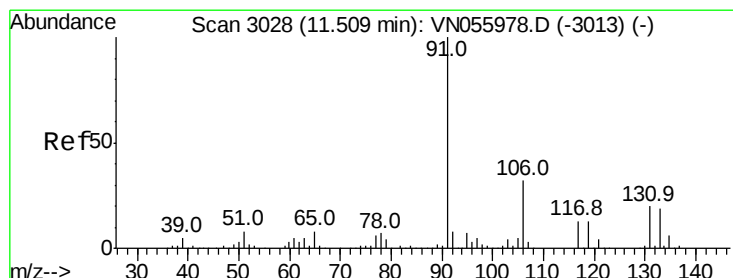
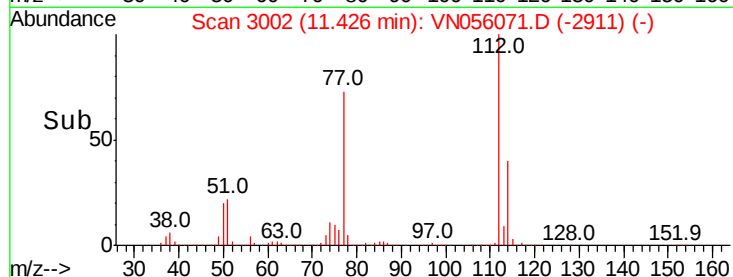
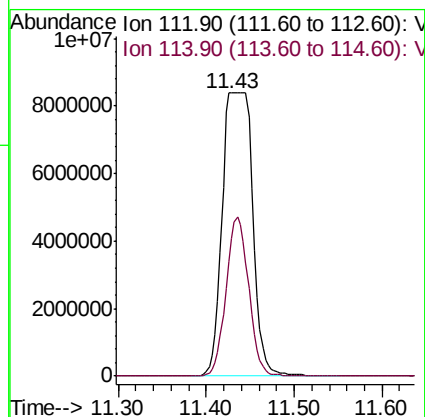
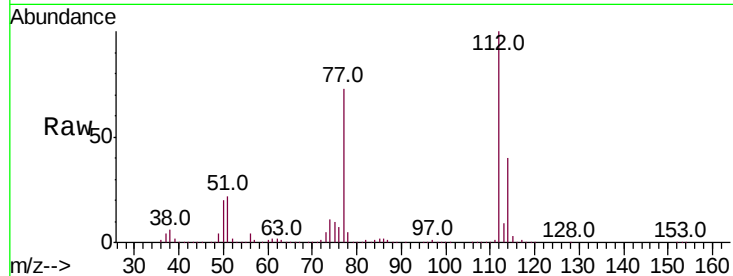
#65
Chlorobenzene
Concen: 1981.951 ug/l m
RT: 11.43 min Scan# 3002
Delta R.T. -0.01 min
Lab File: VN056071.D
Acq: 7 Jun 2019 2:39

Instrument :
MSVOA_N
ClientSampleId :
LF015MW045-190604

Tot Ion:112 Resp:20055558
Ion Ratio Lower Upper
112 100
114 40.3 26.2 39.4#

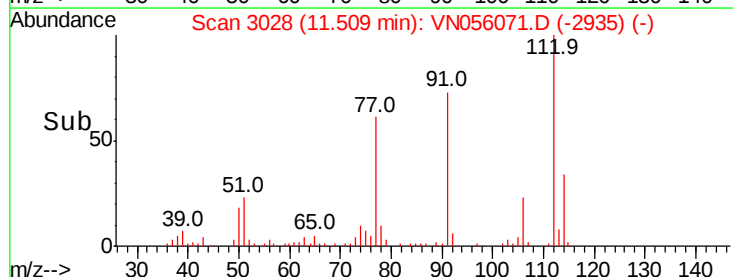
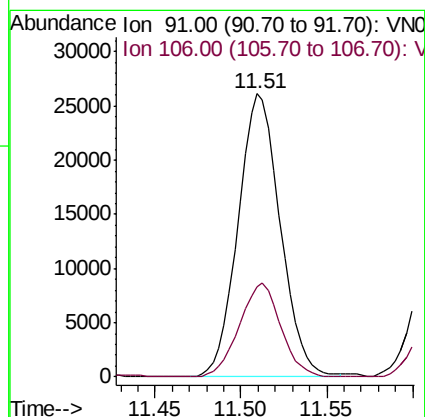
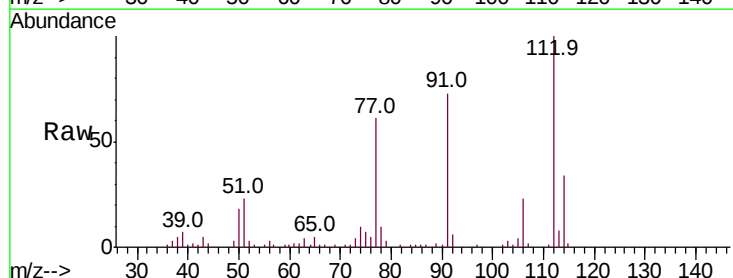
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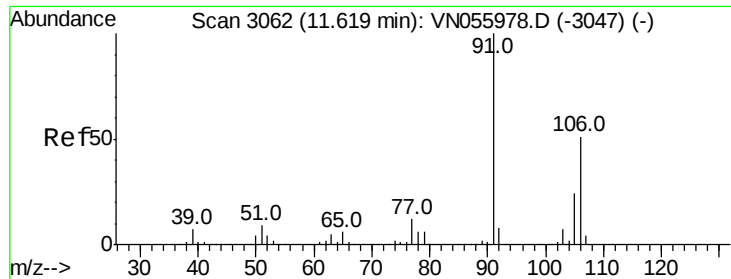
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#67
Ethyl Benzene
Concen: 2.526 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN056071.D
Acq: 7 Jun 2019 2:39

Tgt Ion: 91 Resp: 44446
Ion Ratio Lower Upper
91 100
106 32.0 25.1 37.7





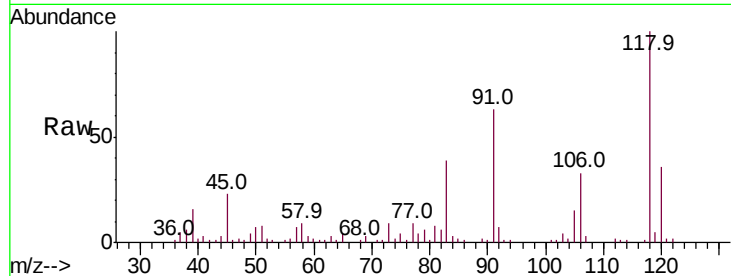
#68
m/p-Xylenes
Concen: 2.861 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN056071.D
Acq: 7 Jun 2019 2:39

Instrument :
MSVOA_N
ClientSampleId :
LF015MW045-190604

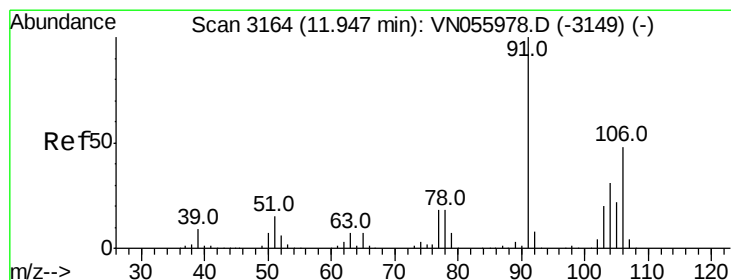
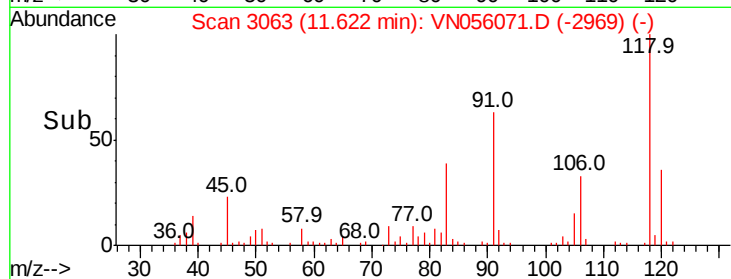
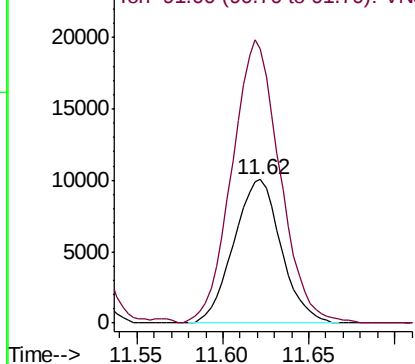
Tot Ion:106 Resp: 19234
Ion Ratio Lower Upper
106 100
91 199.6 159.3 238.9

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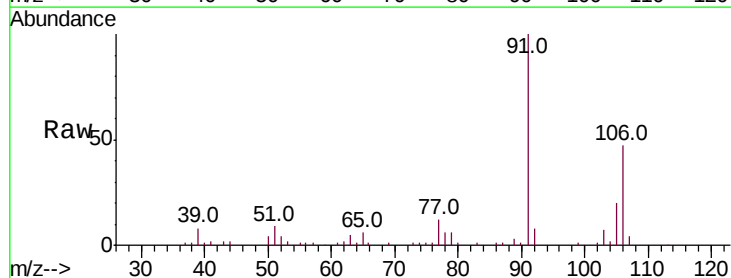


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

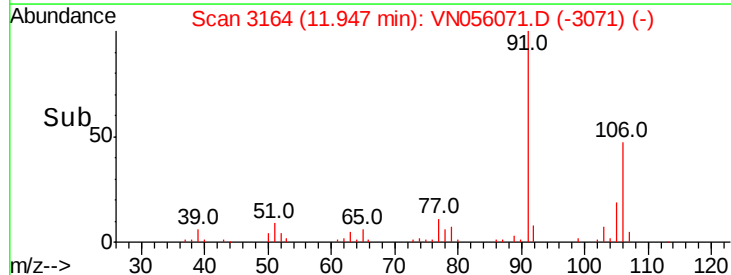
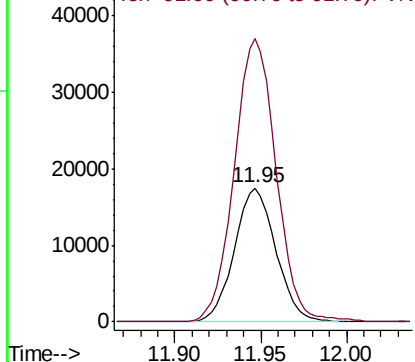


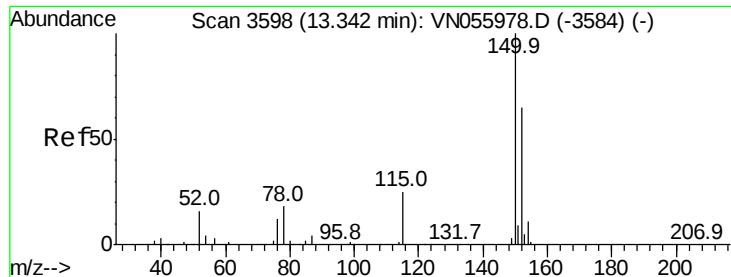
#69
o-Xylene
Concen: 4.446 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN056071.D
Acq: 7 Jun 2019 2:39

Tgt Ion:106 Resp: 29393
Ion Ratio Lower Upper
106 100
91 213.4 104.7 314.1



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056071.D

Acq: 7 Jun 2019 2:39

Instrument :

MSVOA_N

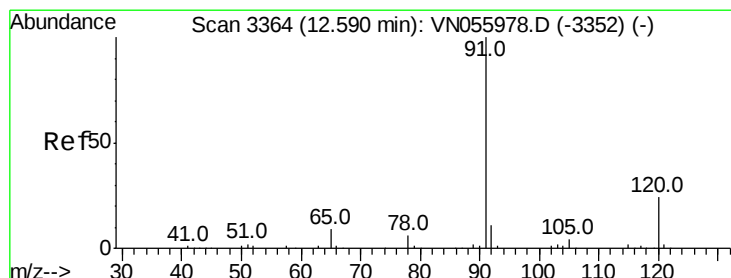
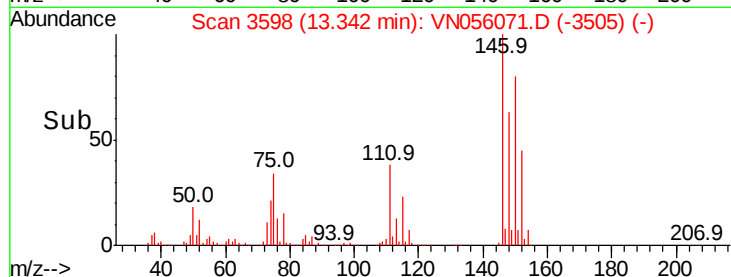
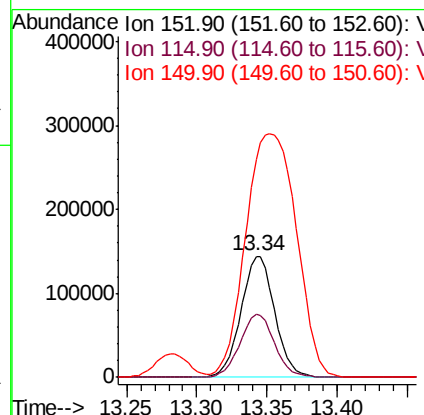
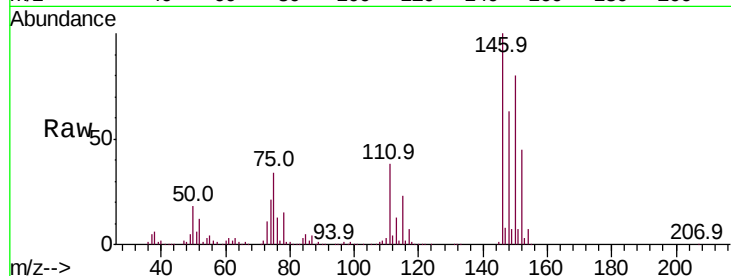
ClientSampleId :

LF015MW045-190604

Tot Ion:	152	Resp:	241282
Ion Ratio	Lower	Upper	
152	100		
115	53.3	27.0	81.0
150	301.9	0.0	343.2

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#78

n-propylbenzene

Concen: 0.627 ug/l

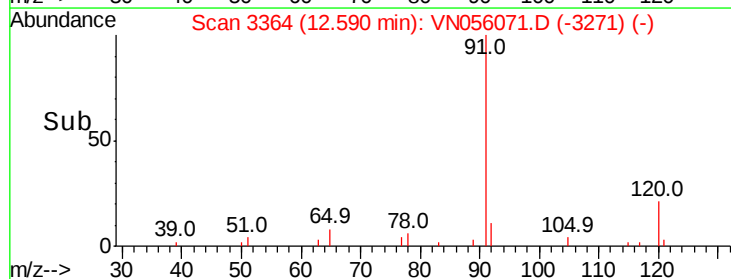
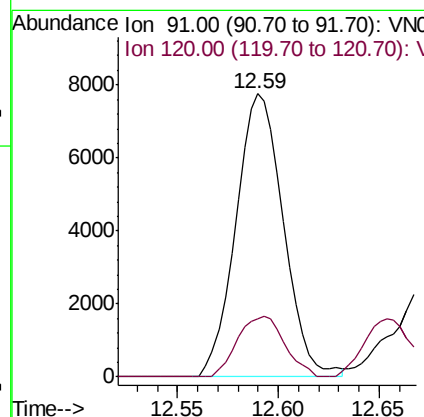
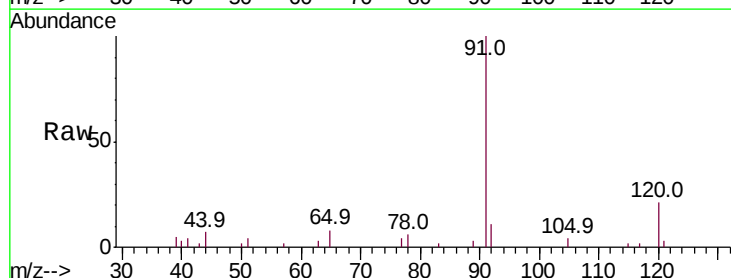
RT: 12.59 min Scan# 3364

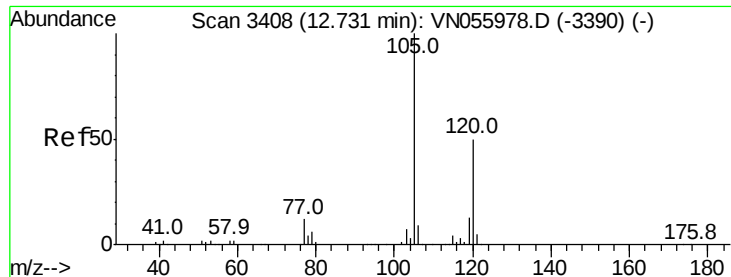
Delta R.T. 0.00 min

Lab File: VN056071.D

Acq: 7 Jun 2019 2:39

Tgt Ion:	91	Resp:	12800
Ion Ratio	Lower	Upper	
91	100		
120	21.2	12.0	36.0





#80

1,3,5-Trimethylbenzene

Concen: 1.131 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056071.D

Acq: 7 Jun 2019 2:39

Instrument :

MSVOA_N

ClientSampleId :

LF015MW045-190604

Tot Ion:105 Resp: 18349

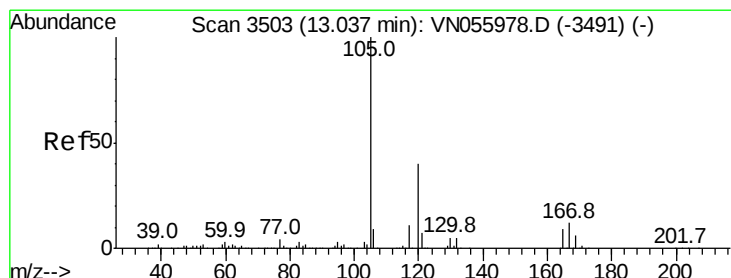
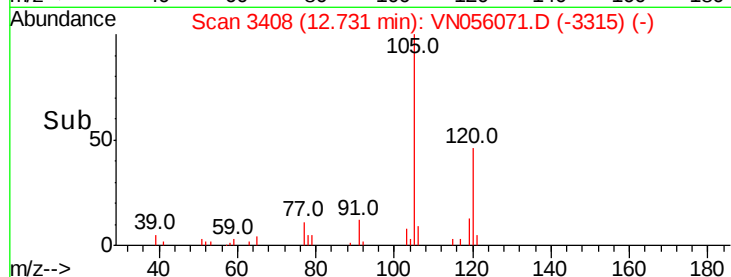
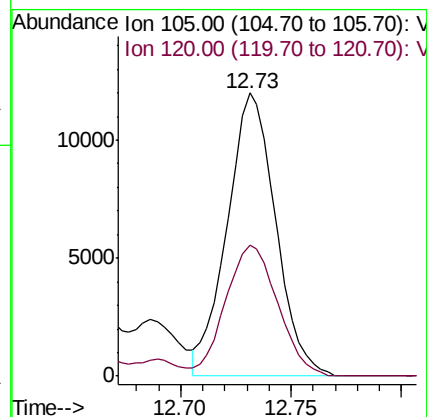
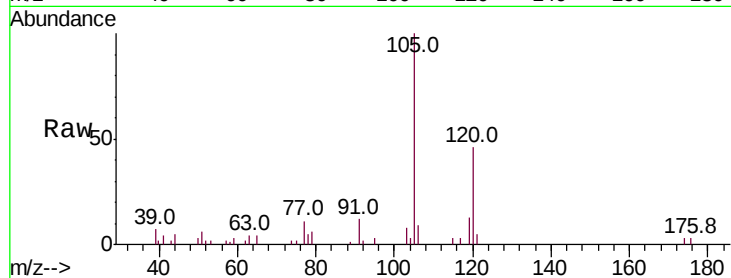
Ion Ratio Lower Upper

105 100

120 49.9 24.7 74.1

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#84

1,2,4-Trimethylbenzene

Concen: 0.360 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN056071.D

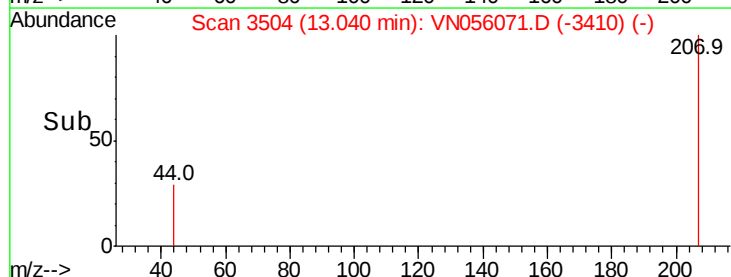
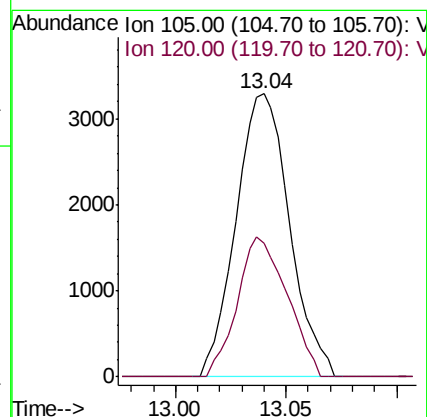
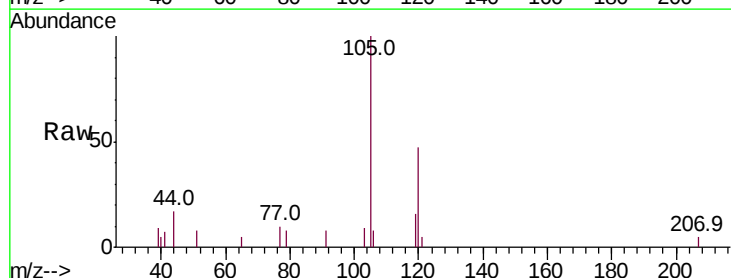
Acq: 7 Jun 2019 2:39

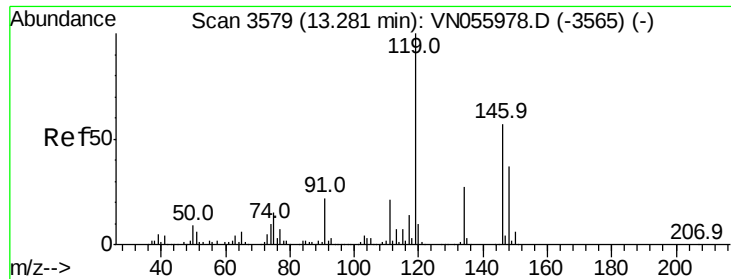
Tgt Ion:105 Resp: 5536

Ion Ratio Lower Upper

105 100

120 45.8 23.0 69.0





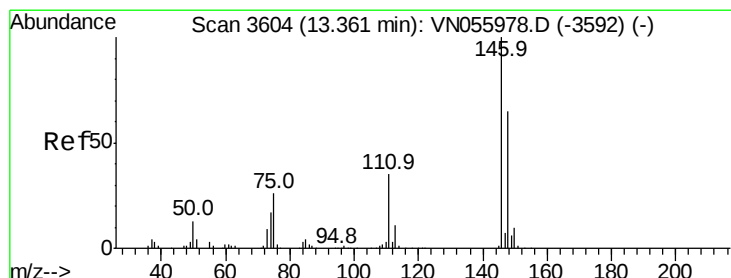
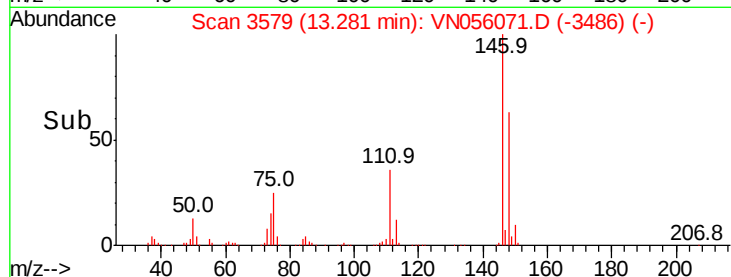
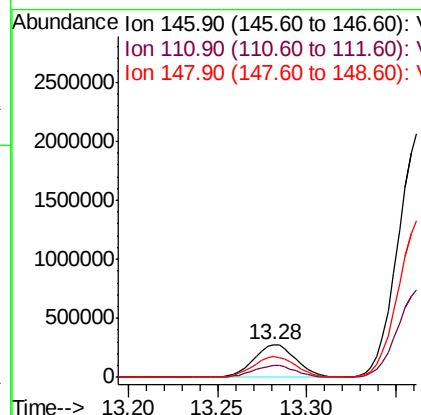
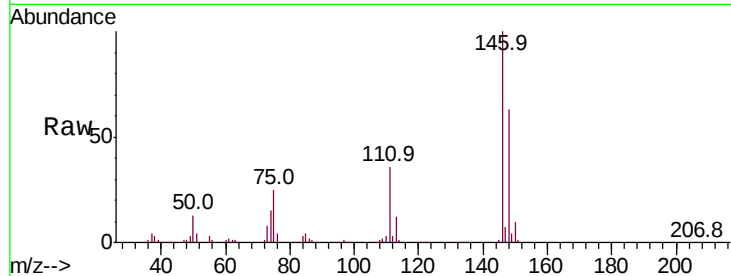
#87
 1,3-Dichlorobenzene
 Concen: 57.761 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN056071.D
 Acq: 7 Jun 2019 2:39

Instrument :
 MSVOA_N
 ClientSampleId :
 LF015MW045-190604

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.8	18.5	55.5
148	63.8	32.0	96.2

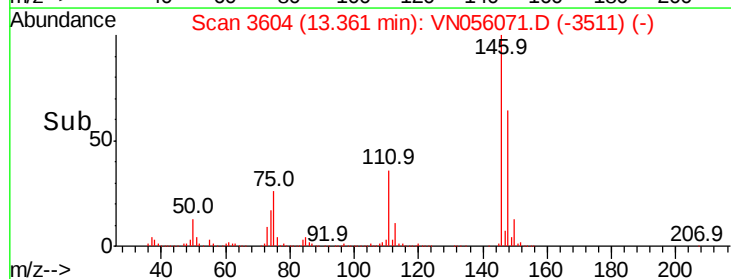
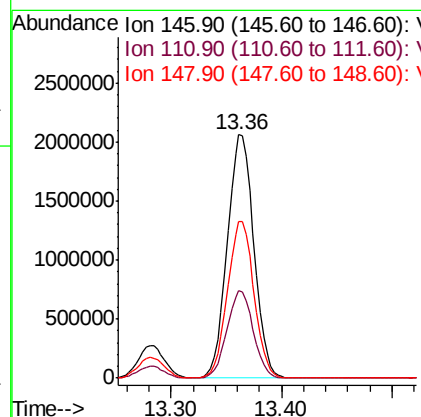
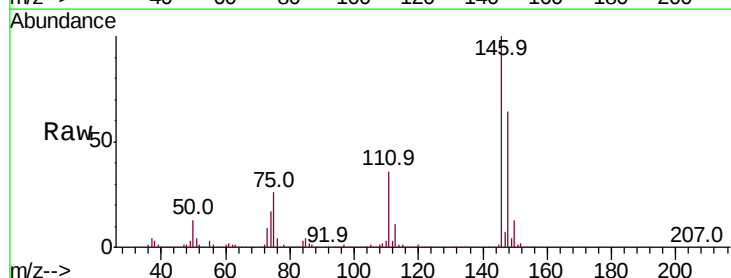
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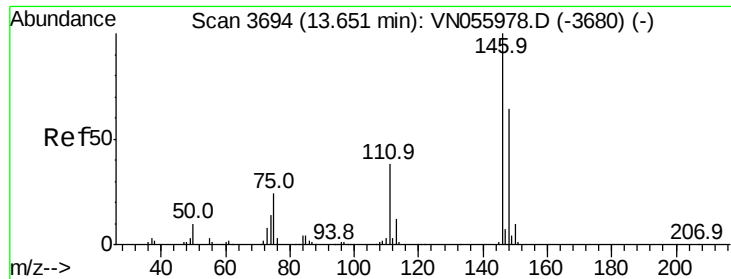
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#88
 1,4-Dichlorobenzene
 Concen: 446.468 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN056071.D
 Acq: 7 Jun 2019 2:39

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.5	18.1	54.4
148	64.3	32.1	96.5





#91

1,2-Dichlorobenzene

Concen: 1175.189 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN056071.D

Acq: 7 Jun 2019 2:39

Instrument :

MSVOA_N

ClientSampleId :

LF015MW045-190604

Tot Ion:146 Resp: 9486126

Ion Ratio Lower Upper

146 100

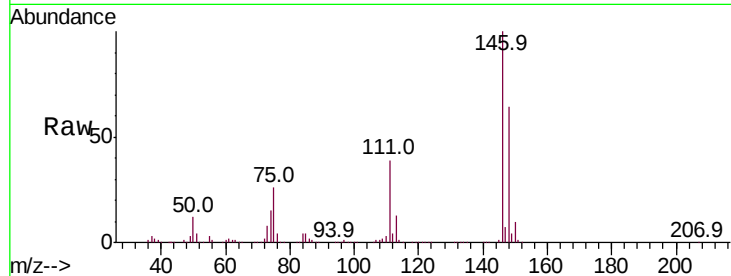
111 38.7 19.1 57.5

148 64.1 31.9 95.9

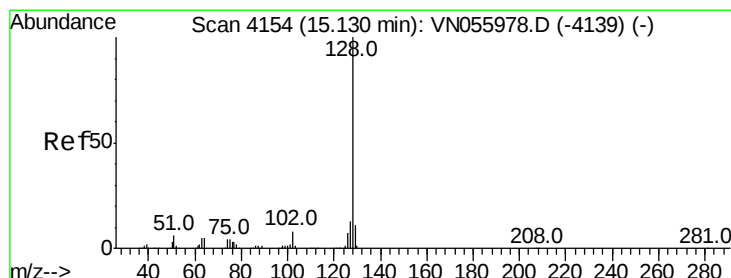
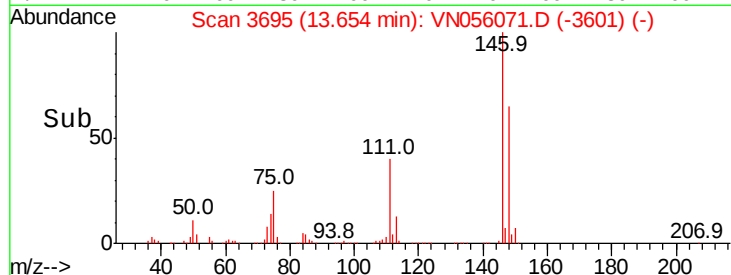
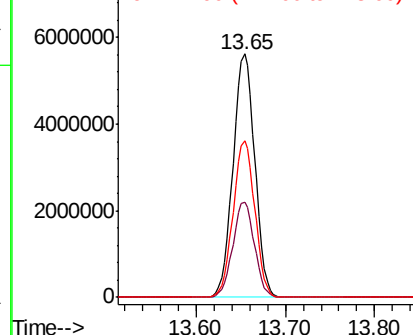
Manual Integrations
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Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 4.865 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056071.D

Acq: 7 Jun 2019 2:39

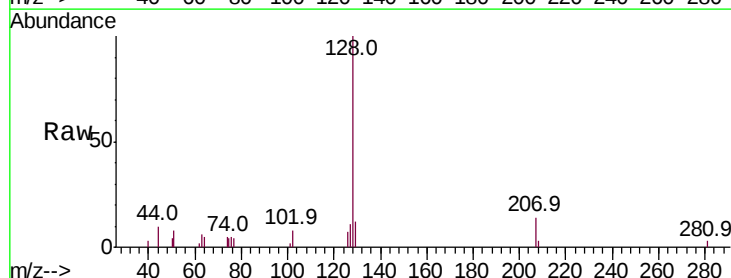
Tgt Ion:128 Resp: 12669

Ion Ratio Lower Upper

128 100

127 11.5 10.3 15.5

129 10.4 8.7 13.1



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

