

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062119\
 Data File : VN056419.D
 Acq On : 21 Jun 2019 12:32
 Operator : JC/SP
 Sample : K3465-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 390619766-VOA

Quant Time: Jun 24 15:43:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	62945	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	340728	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	283202	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.03	65	129971	33.25	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	110.83%
60) 4-Bromofluorobenzene	12.40	95	113130	26.95	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	89.83%
63) Toluene-d8	10.09	98	402556	31.33	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.43%

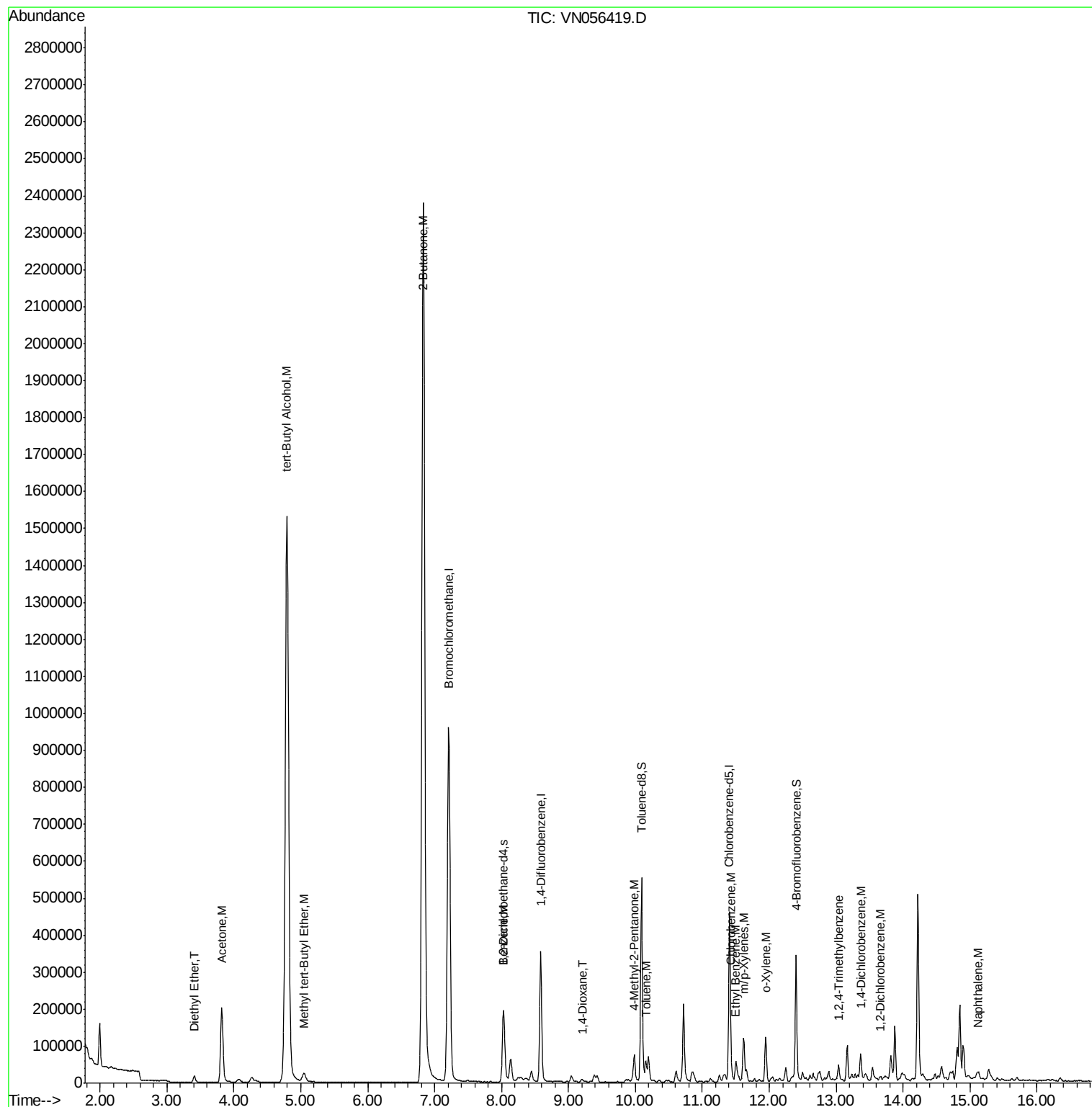
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Diethyl Ether	3.41	74	8882	4.013	ug/l	95
15) Acetone	3.82	58	96502	167.385	ug/l	91
23) tert-Butyl Alcohol	4.79	59	2944669	4296.519	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	36389	3.475	ug/l #	84
30) 2-Butanone	6.83	43	200856	82.781	ug/l #	85
34) Benzene	8.04	78	52242	3.557	ug/l #	43
45) 1,4-Dioxane	9.20	88	6601	85.584	ug/l #	81
58) 4-Methyl-2-Pentanone	9.99	43	53971	12.585	ug/l	93
62) Toluene	10.16	91	39420	2.578	ug/l	99
64) Chlorobenzene	11.43	112	10522	1.135	ug/l	99
66) Ethyl Benzene	11.51	91	24281	1.491	ug/l	97
67) m/p-Xylenes	11.62	106	41259	6.620	ug/l	96
68) o-Xylene	11.95	106	32696	5.358	ug/l	95
80) 1,2,4-Trimethylbenzene	13.04	105	22198	1.740	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	22079	3.515	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	3086	0.460	ug/l	94
91) Naphthalene	15.13	128	16438	1.846	ug/l	98

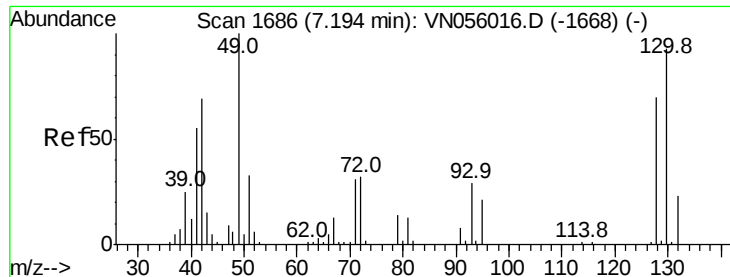
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 24 15:43:54 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jun 06 04:02:53 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN056419.D

Acq: 21 Jun 2019 12:32

Instrument :

MSVOA_N

ClientSampleId :

390619766-VOA

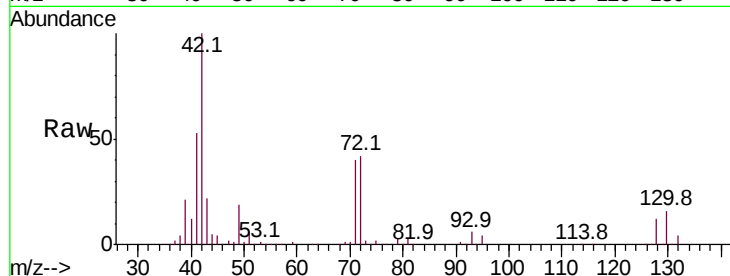
Tot Ion:128 Resp: 62945

Ion Ratio Lower Upper

128 100

49 155.9 0.0 355.8

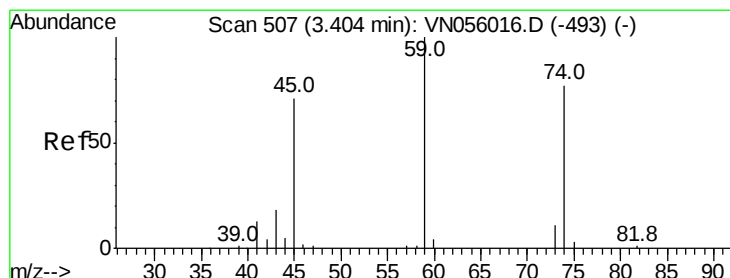
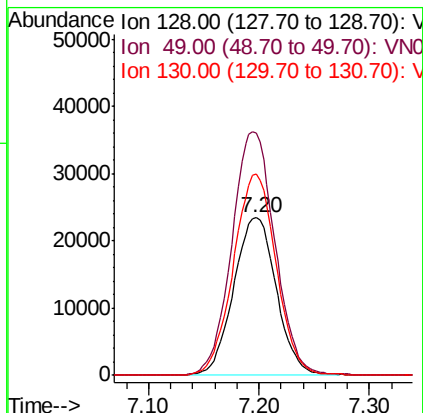
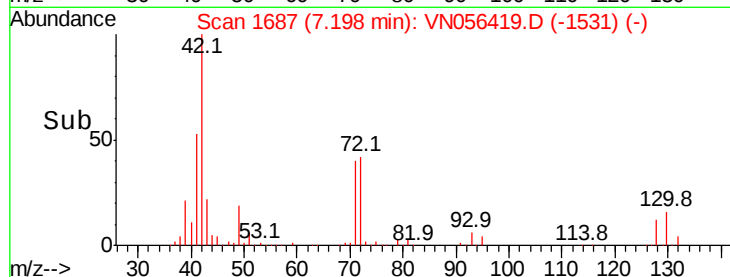
130 127.5 0.0 326.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#8

Diethyl Ether

Concen: 4.013 ug/l

RT: 3.41 min Scan# 509

Delta R.T. 0.01 min

Lab File: VN056419.D

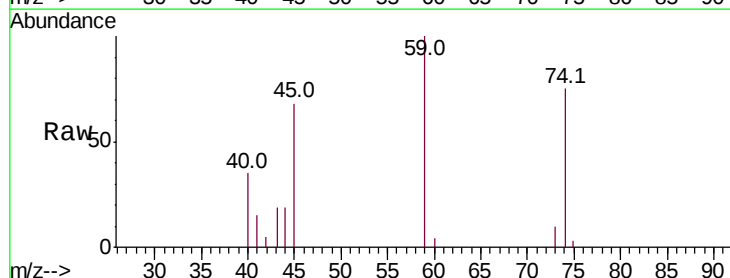
Acq: 21 Jun 2019 12:32

Tgt Ion: 74 Resp: 8882

Ion Ratio Lower Upper

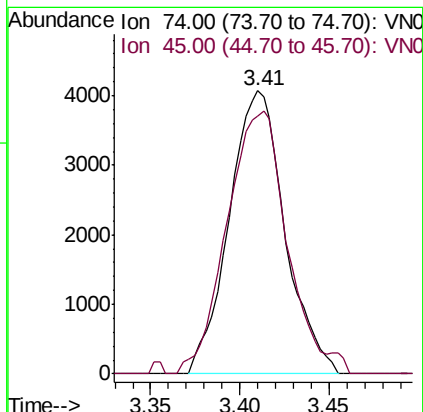
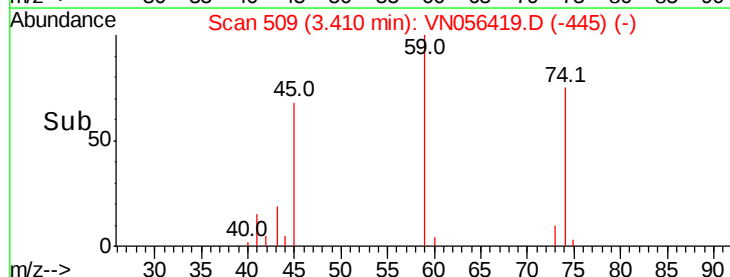
74 100

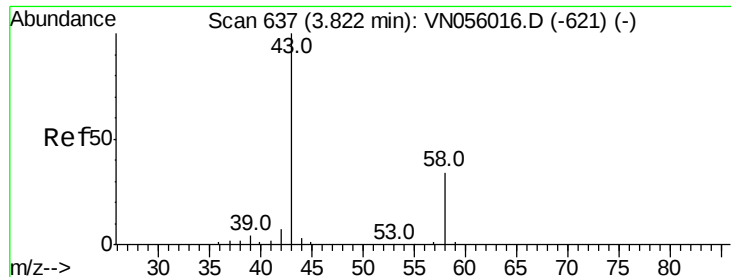
45 99.1 18.8 169.6



Abundance Ion 74.00 (73.70 to 74.70): VN

Ion 45.00 (44.70 to 45.70): VN





#15

Acetone

Concen: 167.385 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN056419.D

Acq: 21 Jun 2019 12:32

Instrument :

MSVOA_N

ClientSampleId :

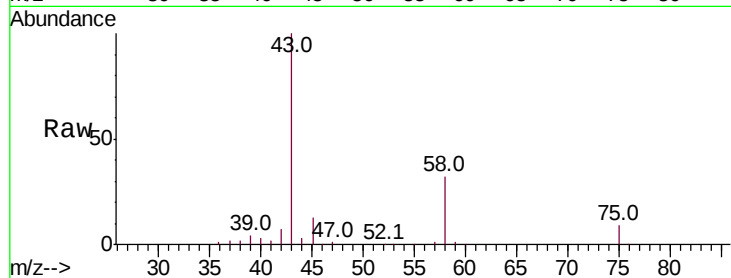
390619766-VOA

Tot Ion: 58 Resp: 96502

Ion Ratio Lower Upper

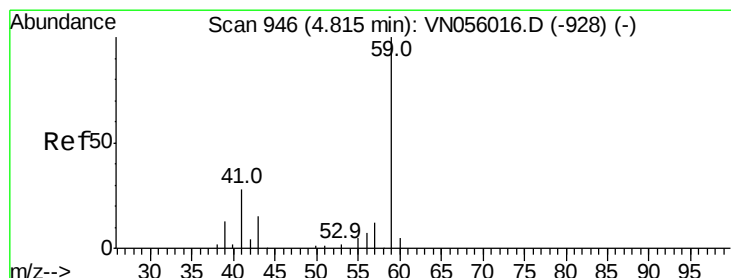
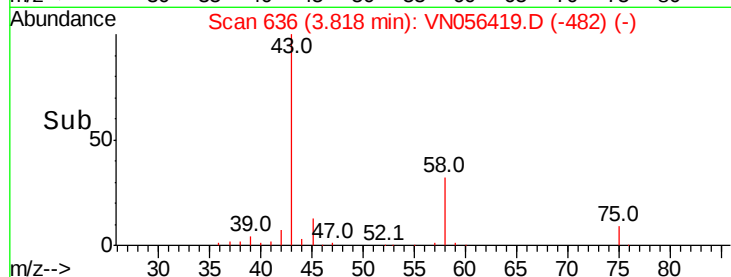
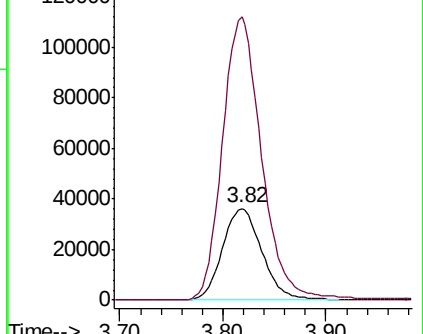
58 100

43 307.6 232.5 348.7



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#23

tert-Butyl Alcohol

Concen: 4296.519 ug/l

RT: 4.79 min Scan# 939

Delta R.T. -0.02 min

Lab File: VN056419.D

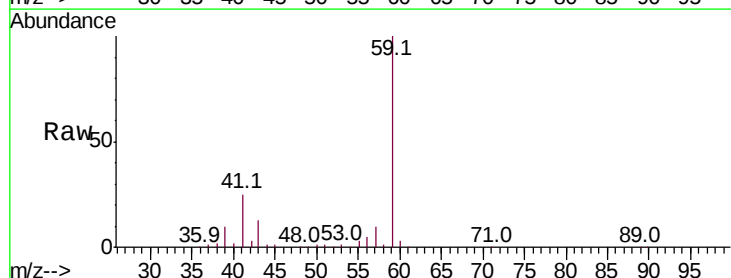
Acq: 21 Jun 2019 12:32

Tgt Ion: 59 Resp: 2944669

Ion Ratio Lower Upper

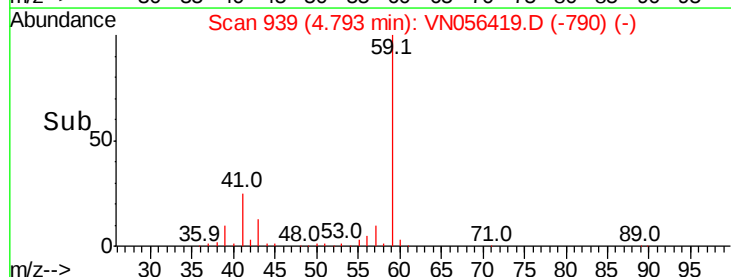
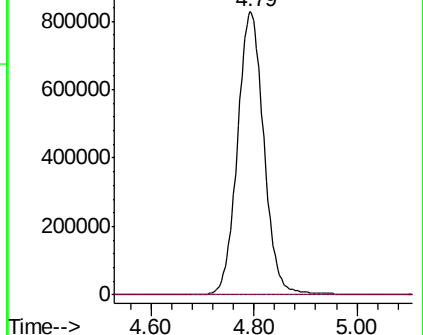
59 100

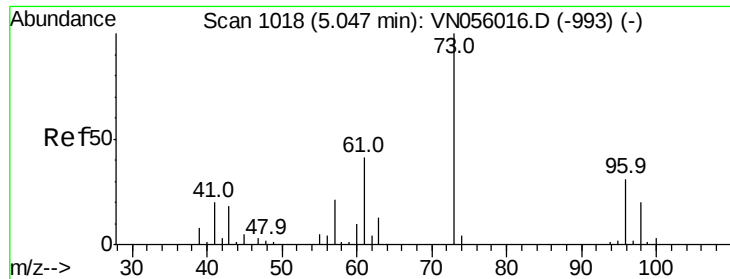
52 0.1 0.0 0.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



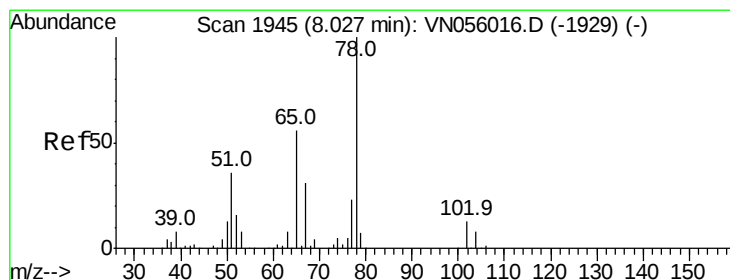
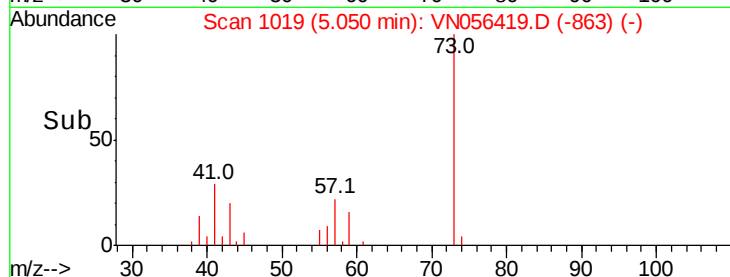
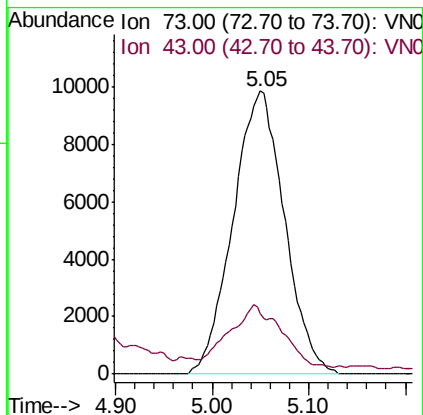
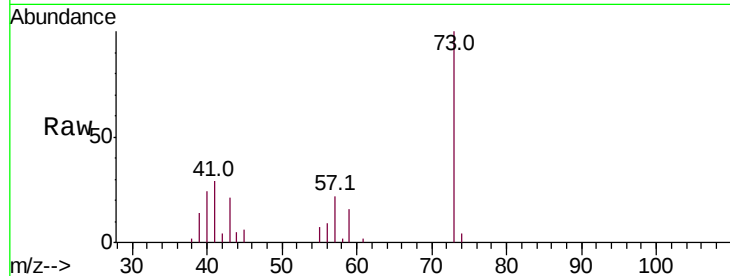


#24

Methyl tert-Butyl Ether
 Concen: 3.475 ug/l
 RT: 5.05 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VN056419.D
 Acq: 21 Jun 2019 12:32

Instrument :
 MSVOA_N
 ClientSampleId :
 390619766-VOA

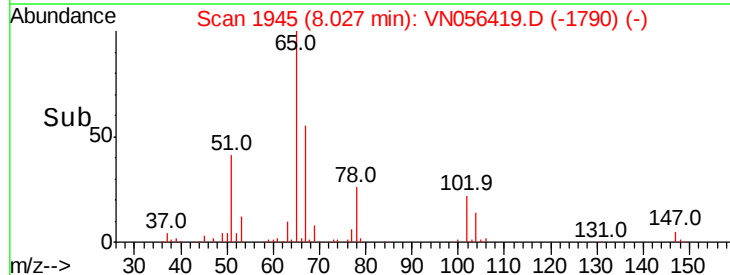
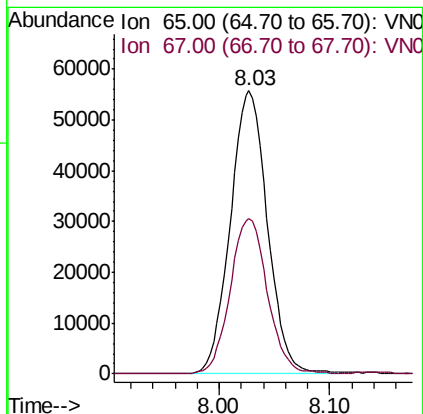
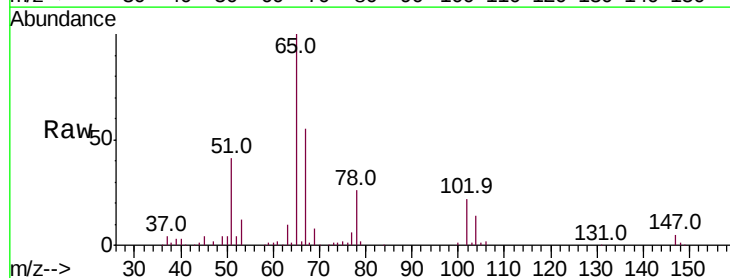
Tot Ion: 73 Resp: 36389
 Ion Ratio Lower Upper
 73 100
 43 11.8 15.4 23.0#

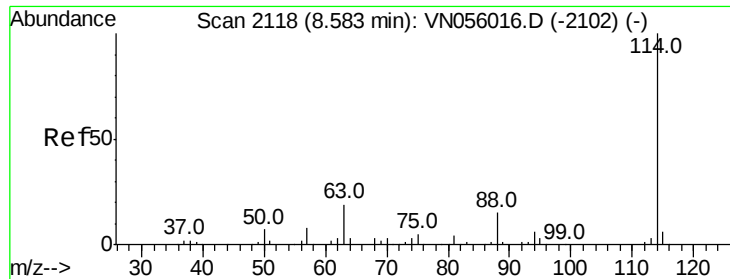


#27

1,2-Dichloroethane-d4
 Concen: 33.251 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056419.D
 Acq: 21 Jun 2019 12:32

Tgt Ion: 65 Resp: 129971
 Ion Ratio Lower Upper
 65 100
 67 55.2 43.4 65.2

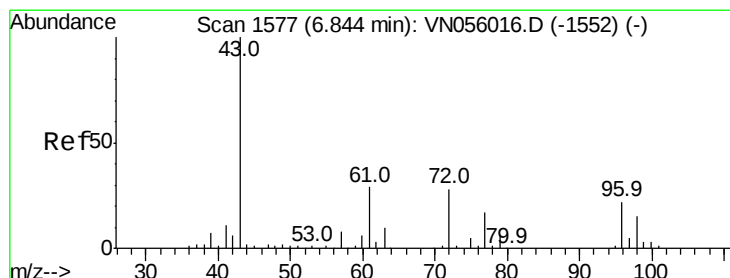
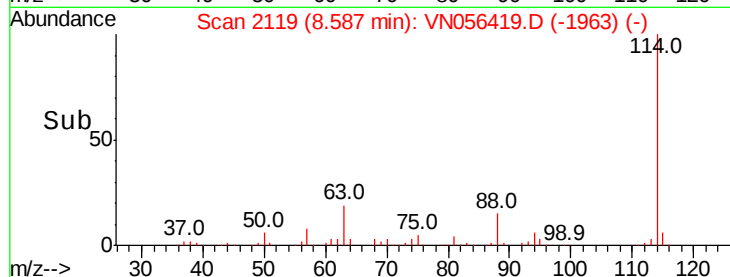
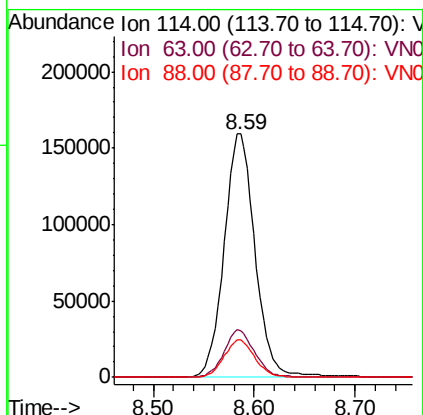
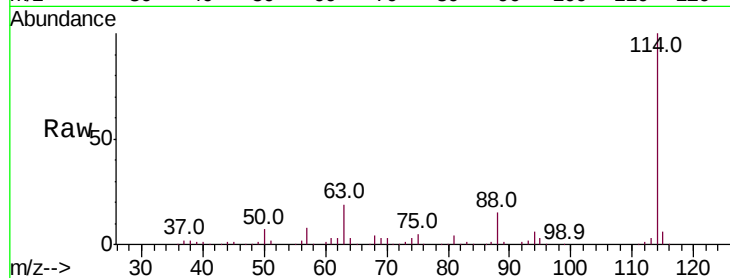




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056419.D
 Acq: 21 Jun 2019 12:32

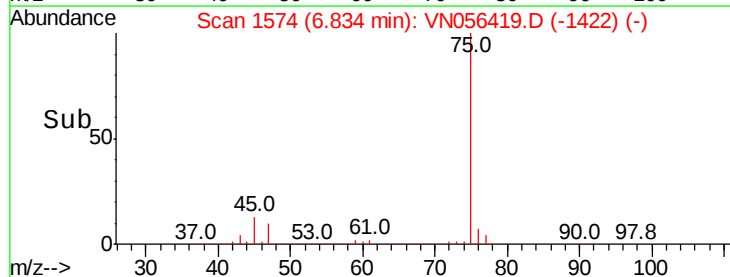
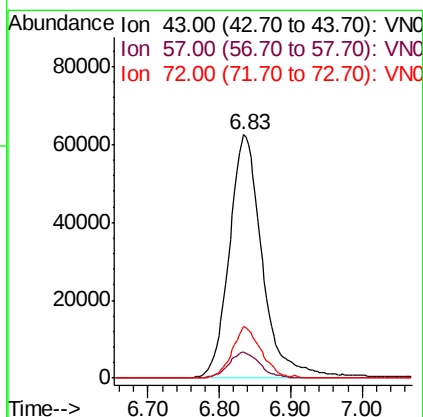
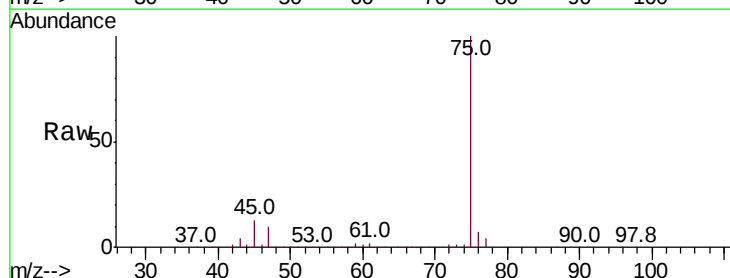
Instrument :
 MSVOA_N
 ClientSampleId :
 390619766-VOA

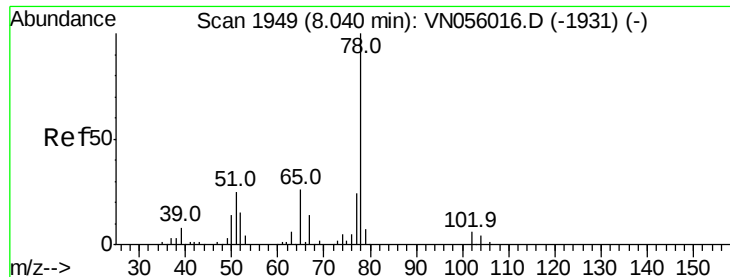
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.3	14.7	22.1
88	15.2	11.9	17.9



#30
 2-Butanone
 Concen: 82.781 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. -0.01 min
 Lab File: VN056419.D
 Acq: 21 Jun 2019 12:32

Tgt Ion	Ratio	Lower	Upper
43	100		
57	10.1	6.7	10.1#
72	18.5	22.4	33.6#





#34

Benzene

Concen: 3.557 ug/l

RT: 8.04 min Scan# 1949

Delta R.T. -0.00 min

Lab File: VN056419.D

Acq: 21 Jun 2019 12:32

Instrument :

MSVOA_N

ClientSampleId :

390619766-VOA

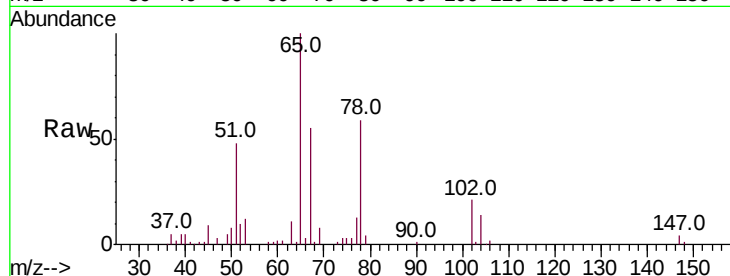
Tot Ion: 78 Resp: 52242

Ion Ratio Lower Upper

78 100

77 23.0 19.3 28.9

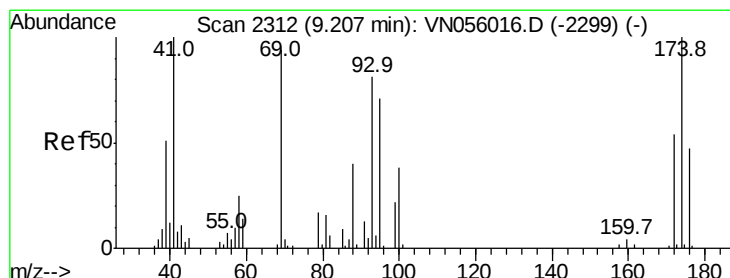
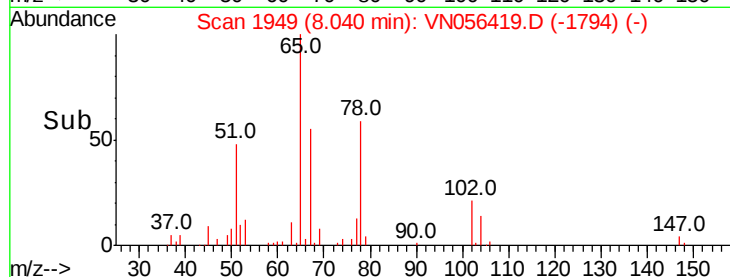
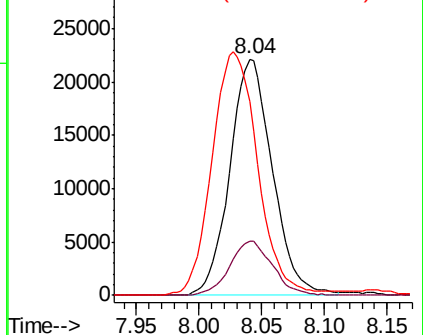
51 80.3 19.8 29.8#



Abundance Ion 78.10 (77.80 to 78.80): VN0

Ion 77.00 (76.70 to 77.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#45

1,4-Dioxane

Concen: 85.584 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. -0.00 min

Lab File: VN056419.D

Acq: 21 Jun 2019 12:32

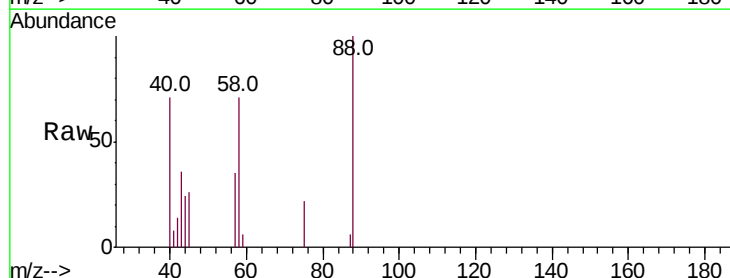
Tgt Ion: 88 Resp: 6601

Ion Ratio Lower Upper

88 100

43 8.0 19.8 29.6#

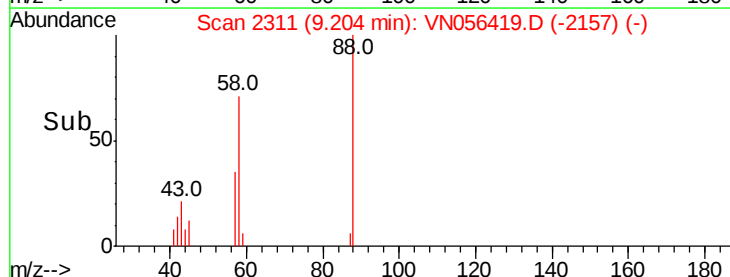
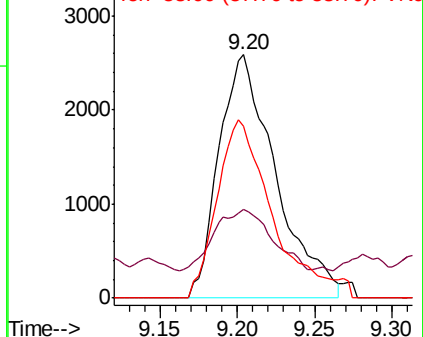
58 70.1 48.5 72.7

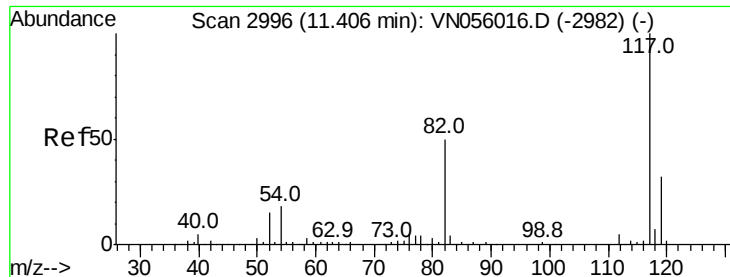


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

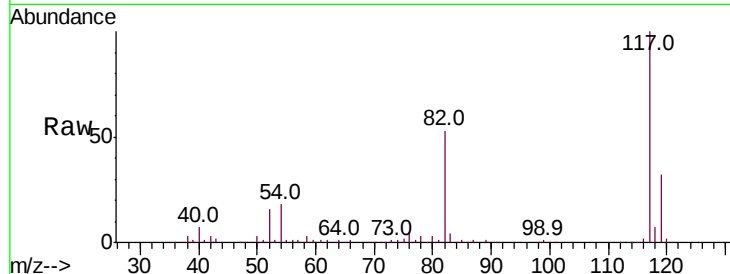




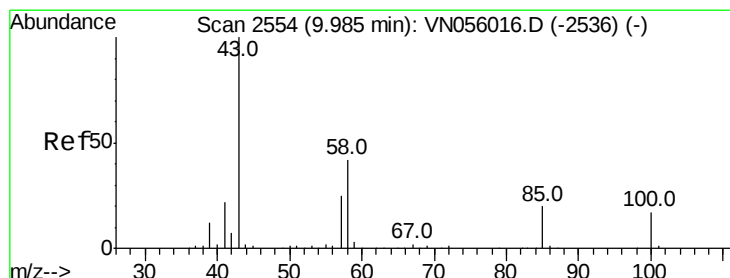
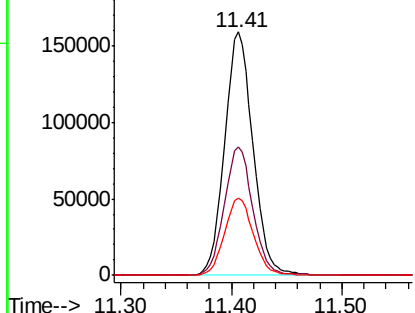
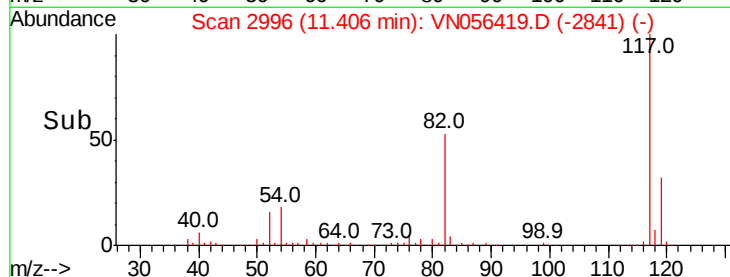
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056419.D
Acq: 21 Jun 2019 12:32

Instrument :
MSVOA_N
ClientSampleId :
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Tot Ion:117 Resp: 283202
Ion Ratio Lower Upper
117 100
82 53.1 41.2 61.8
119 32.4 26.2 39.2

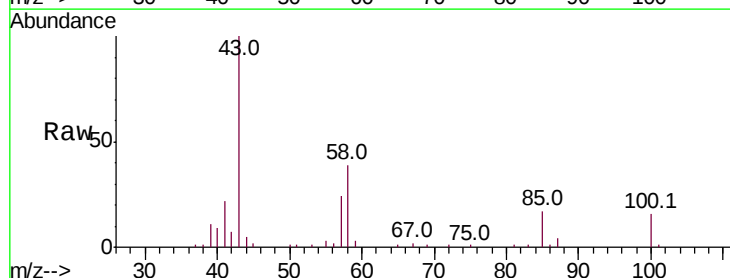


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

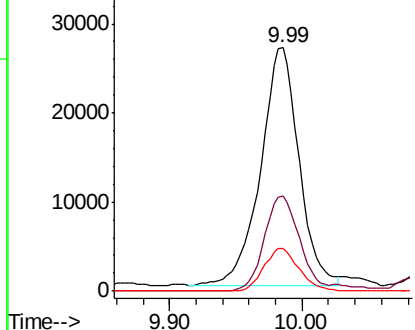
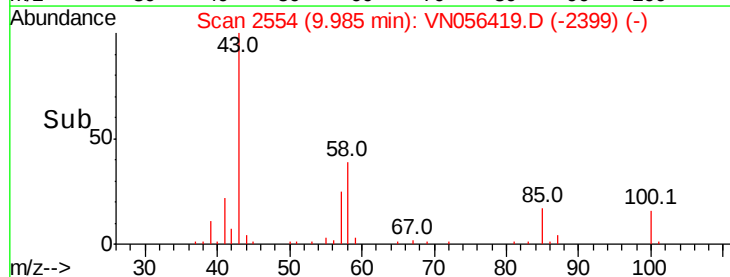


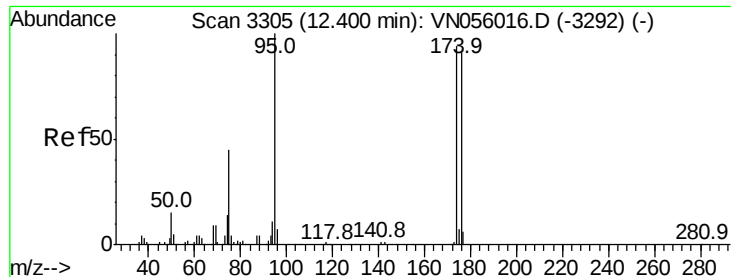
#58
4-Methyl-2-Pentanone
Concen: 12.585 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN056419.D
Acq: 21 Jun 2019 12:32

Tgt Ion: 43 Resp: 53971
Ion Ratio Lower Upper
43 100
58 36.8 33.1 49.7
85 16.3 15.5 23.3



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 58.00 (57.70 to 58.70): V
Ion 85.00 (84.70 to 85.70): V





#60

4-Bromofluorobenzene

Concen: 26.951 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056419.D

Acq: 21 Jun 2019 12:32

Instrument :

MSVOA_N

ClientSampleId :

390619766-VOA

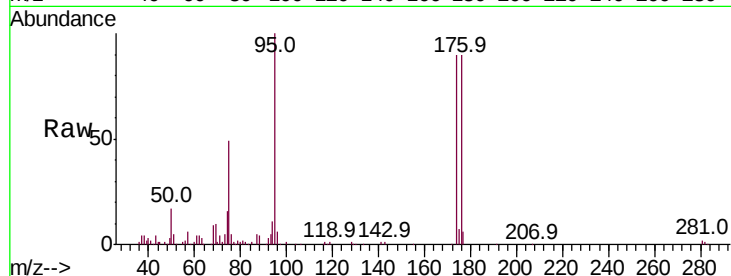
Tot Ion: 95 Resp: 113130

Ion Ratio Lower Upper

95 100

174 90.4 75.4 113.0

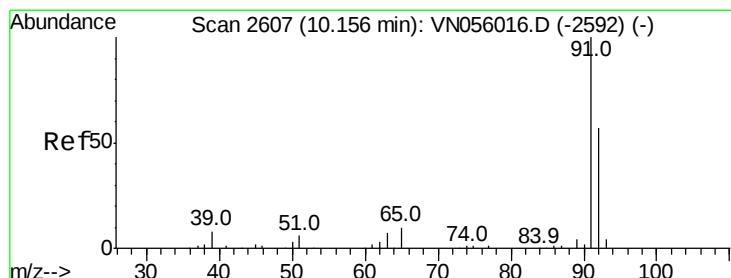
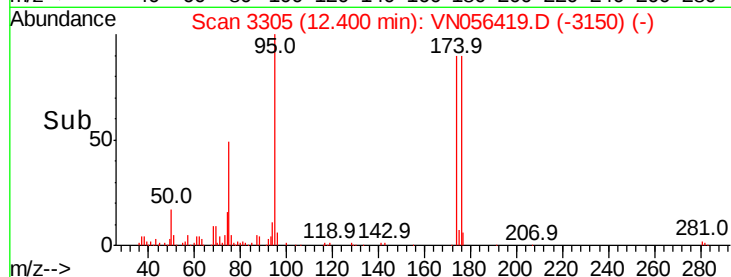
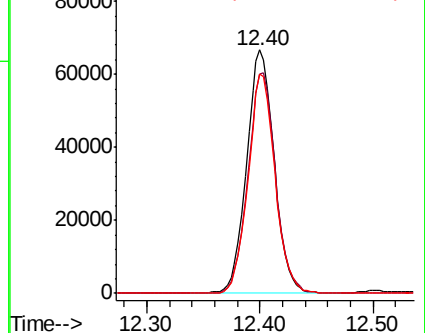
176 87.9 73.9 110.9



Abundance Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): VN0

Ion 176.00 (175.70 to 176.70): VN0



#62

Toluene

Concen: 2.578 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN056419.D

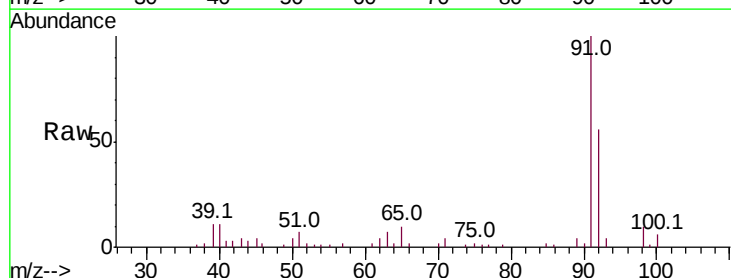
Acq: 21 Jun 2019 12:32

Tgt Ion: 91 Resp: 39420

Ion Ratio Lower Upper

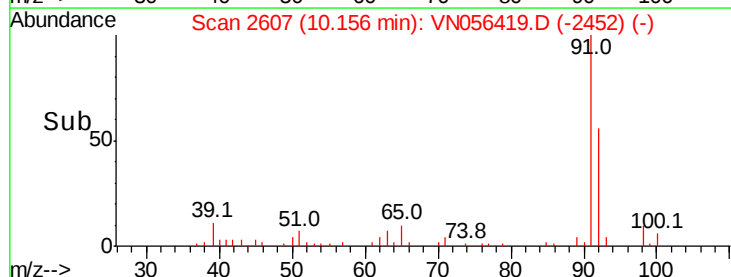
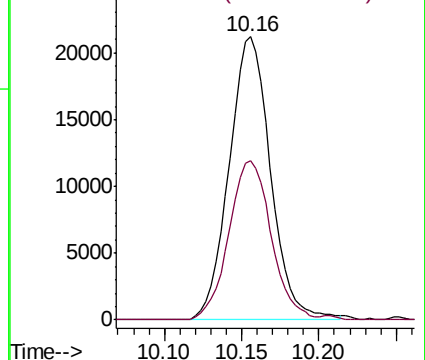
91 100

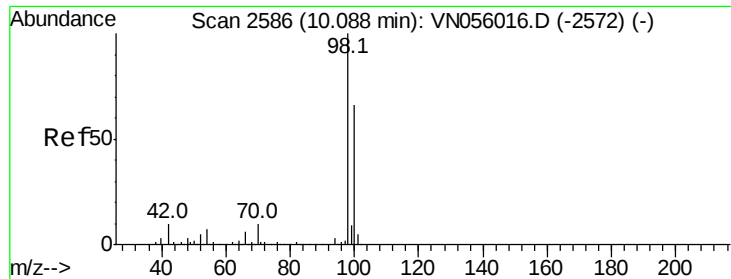
92 57.3 45.5 68.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 31.335 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056419.D

Acq: 21 Jun 2019 12:32

Instrument :

MSVOA_N

ClientSampleId :

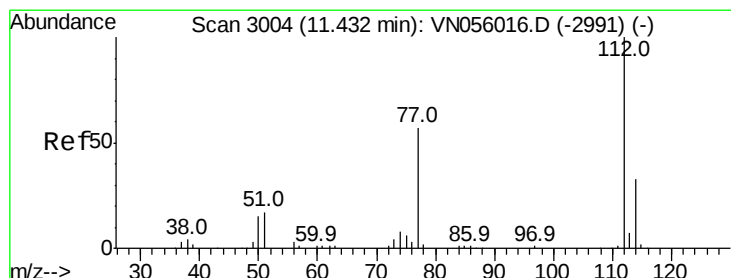
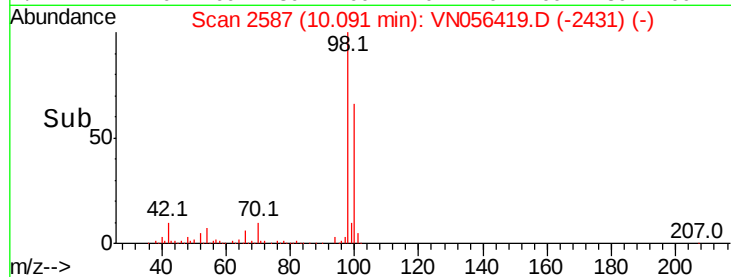
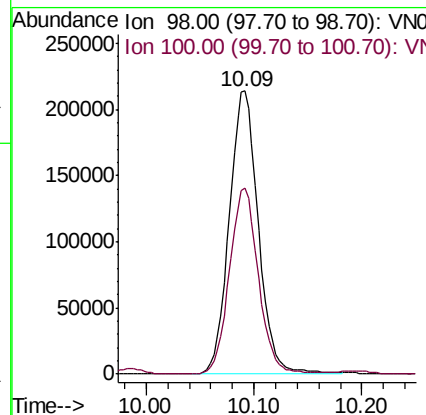
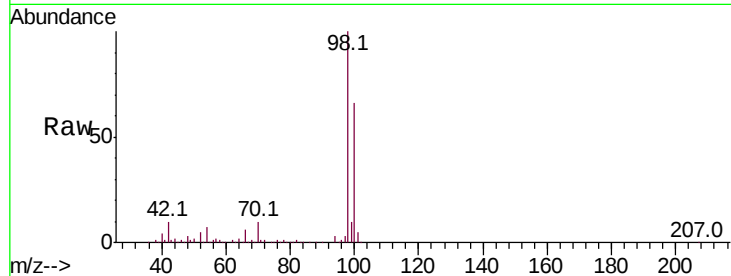
390619766-VOA

Tot Ion: 98 Resp: 402556

Ion Ratio Lower Upper

98 100

100 65.6 52.2 78.4



#64

Chlorobenzene

Concen: 1.135 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN056419.D

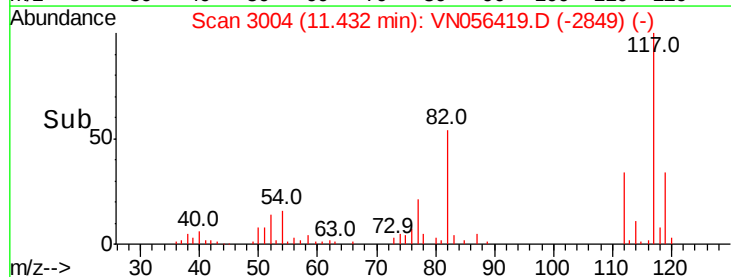
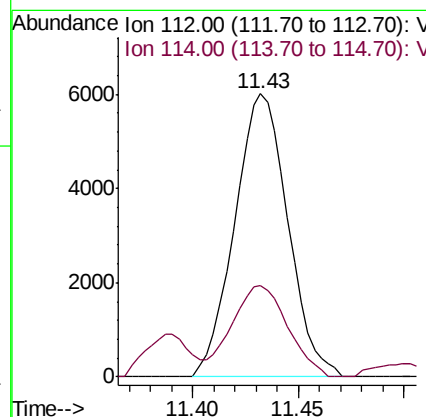
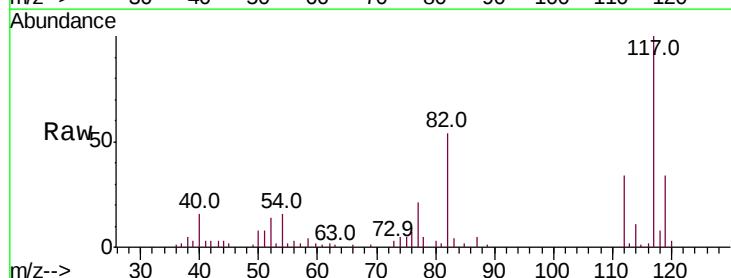
Acq: 21 Jun 2019 12:32

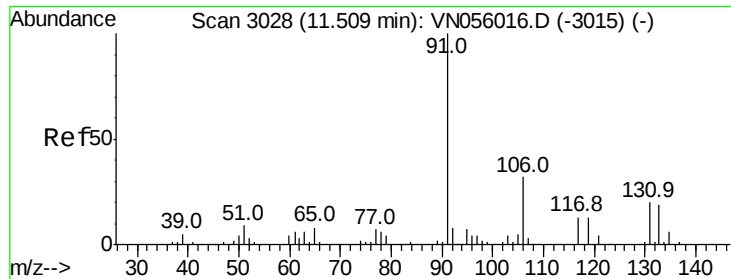
Tgt Ion: 112 Resp: 10522

Ion Ratio Lower Upper

112 100

114 32.2 26.1 39.1





#66

Ethyl Benzene

Concen: 1.491 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN056419.D

Acq: 21 Jun 2019 12:32

Instrument :

MSVOA_N

ClientSampleId :

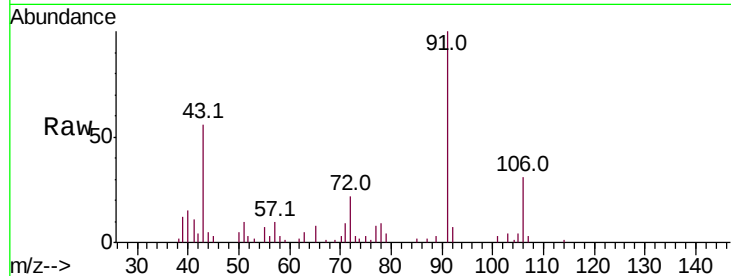
390619766-VOA

Tot Ion: 91 Resp: 24281

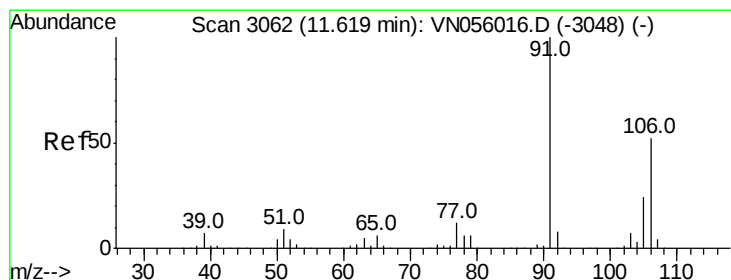
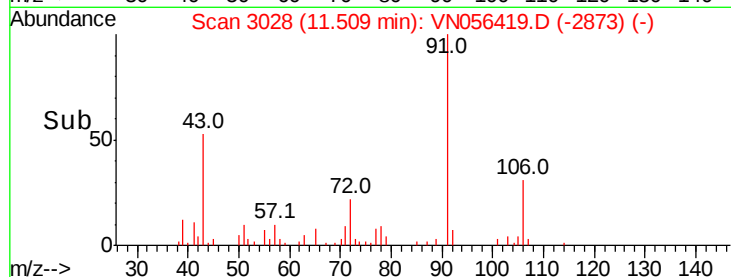
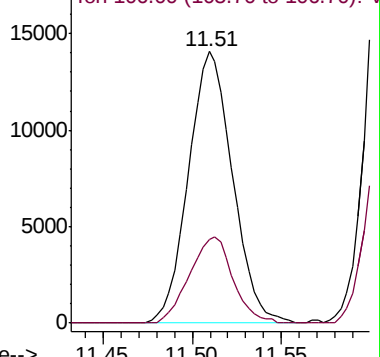
Ion Ratio Lower Upper

91 100

106 30.6 25.7 38.5



Abundance Ion 91.00 (90.70 to 91.70): VN056016.D (-3015) (-)



#67

m/p-Xylenes

Concen: 6.620 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN056419.D

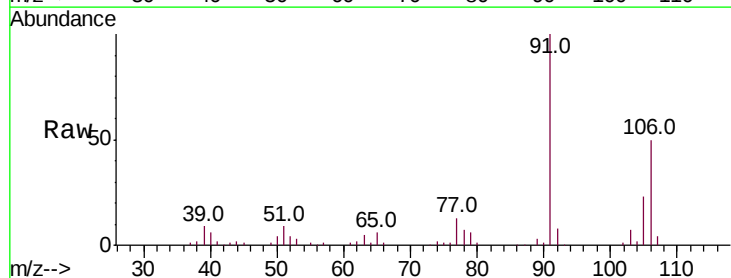
Acq: 21 Jun 2019 12:32

Tgt Ion:106 Resp: 41259

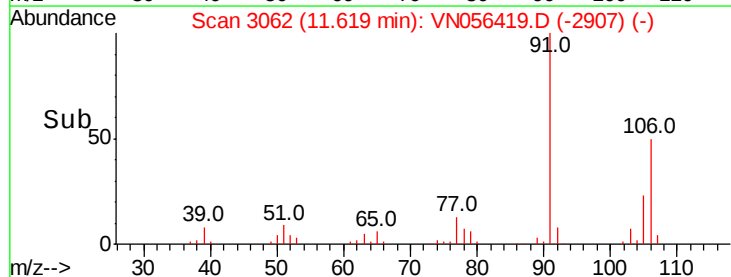
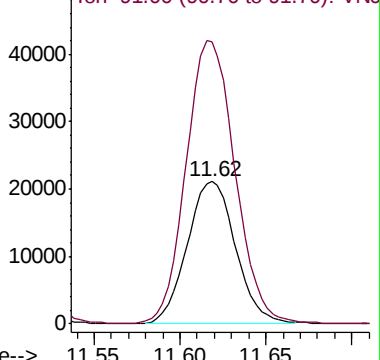
Ion Ratio Lower Upper

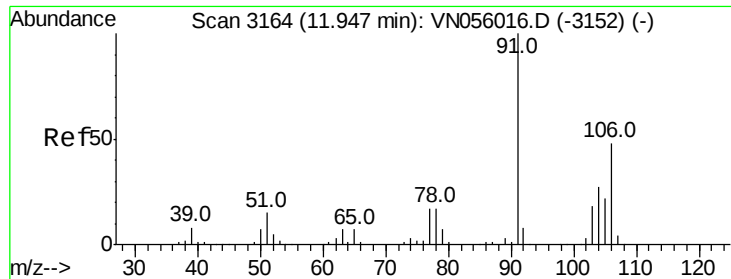
106 100

91 201.2 155.7 233.5



Abundance Ion 106.00 (105.70 to 106.70): VN056016.D (-3048) (-)

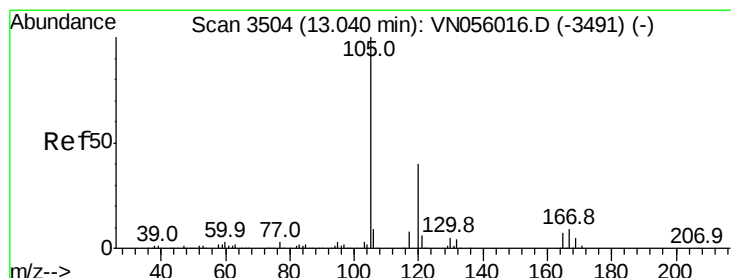
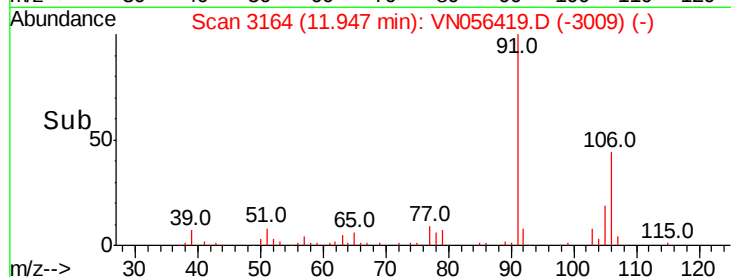
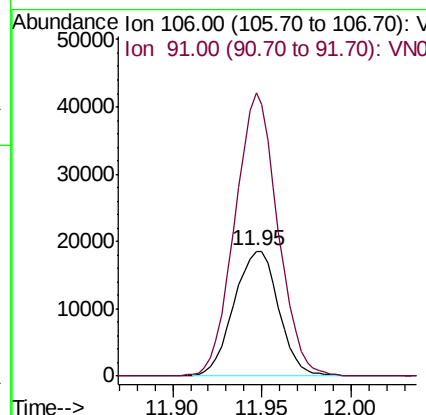
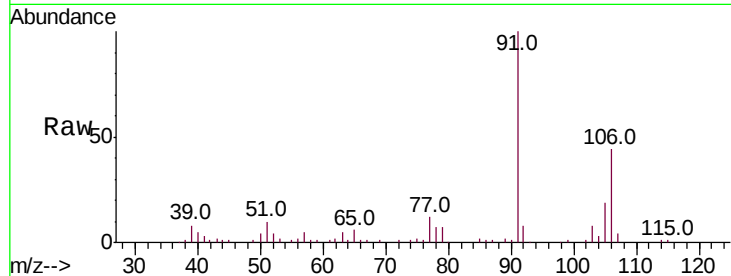




#68
o-Xylene
Concen: 5.358 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN056419.D
Acq: 21 Jun 2019 12:32

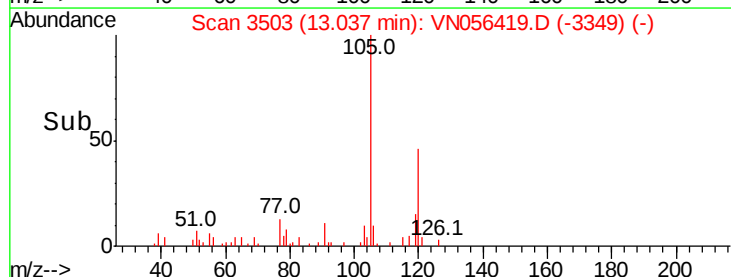
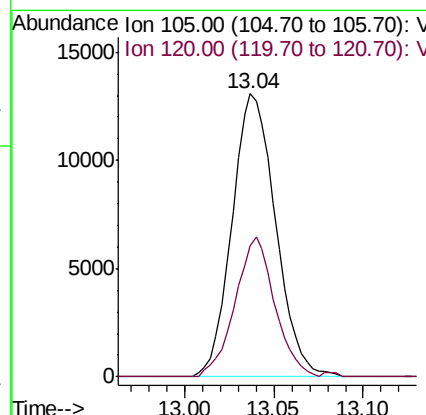
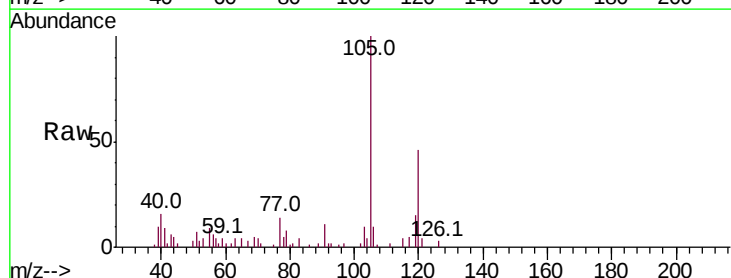
Instrument :
MSVOA_N
ClientSampleId :
390619766-VOA

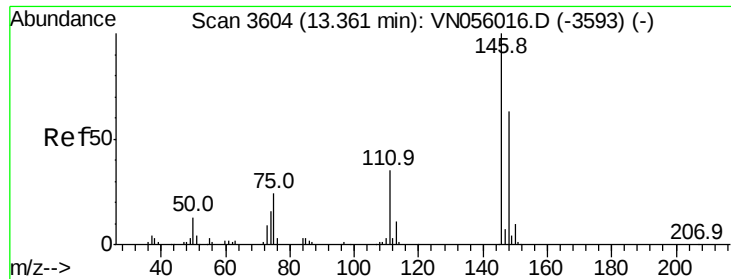
Tot Ion:106 Resp: 32696
Ion Ratio Lower Upper
106 100
91 216.0 103.9 311.7



#80
1,2,4-Trimethylbenzene
Concen: 1.740 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN056419.D
Acq: 21 Jun 2019 12:32

Tgt Ion:105 Resp: 22198
Ion Ratio Lower Upper
105 100
120 45.0 0.0 93.4





#84

1,4-Dichlorobenzene

Concen: 3.515 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN056419.D

Acq: 21 Jun 2019 12:32

Instrument :

MSVOA_N

ClientSampleId :

390619766-VOA

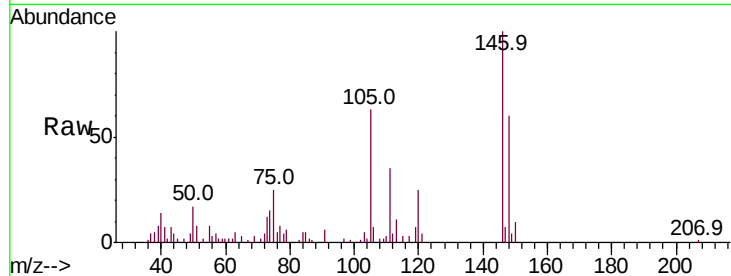
Tot Ion:146 Resp: 22079

Ion Ratio Lower Upper

146 100

111 34.3 17.6 52.9

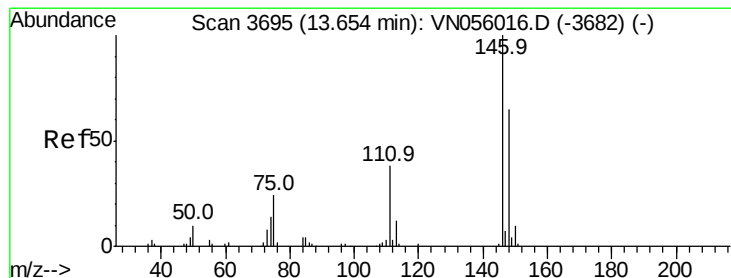
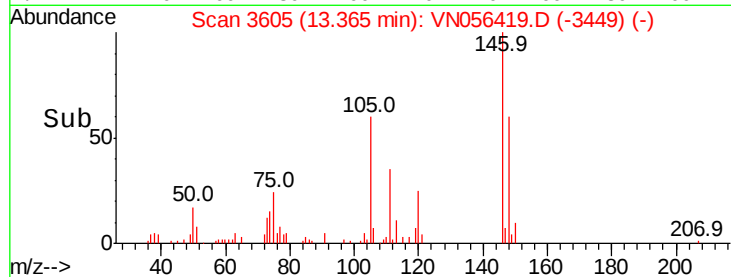
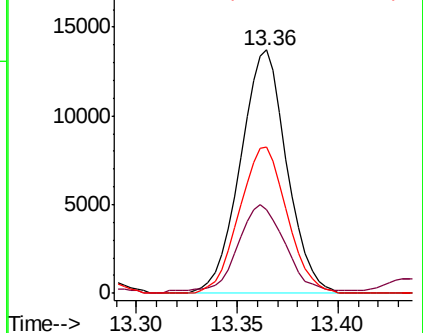
148 62.0 32.1 96.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#87

1,2-Dichlorobenzene

Concen: 0.460 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN056419.D

Acq: 21 Jun 2019 12:32

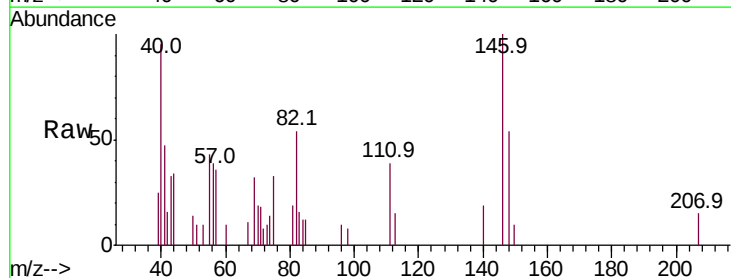
Tgt Ion:146 Resp: 3086

Ion Ratio Lower Upper

146 100

111 43.0 19.3 57.9

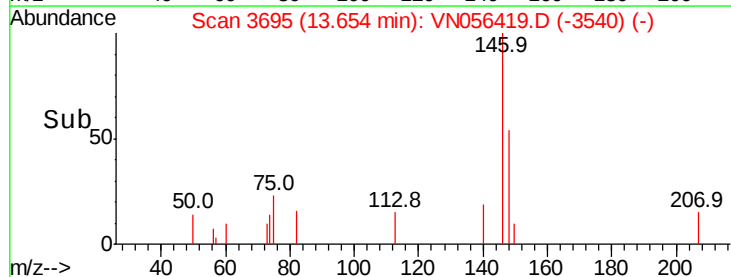
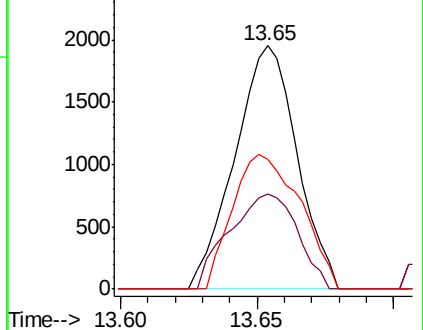
148 60.6 32.6 97.8

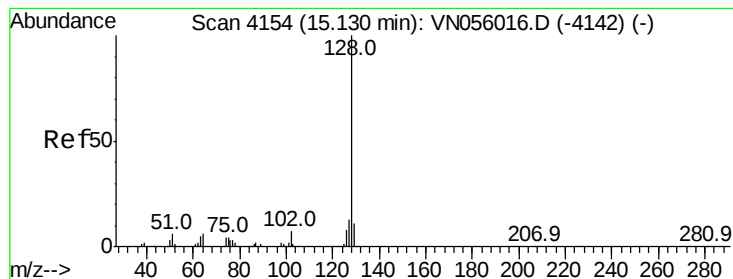


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#91

Naphthalene

Concen: 1.846 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN056419.D

Acq: 21 Jun 2019 12:32

Instrument :

MSVOA_N

ClientSampleId :

390619766-VOA

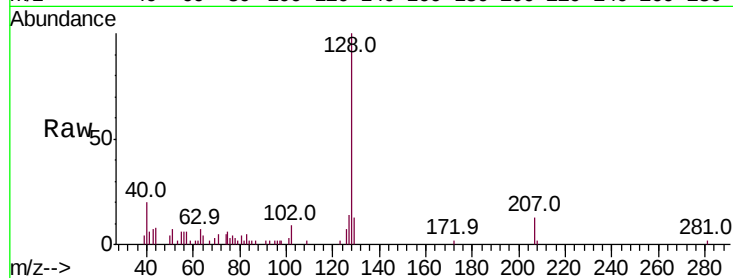
Tot Ion:128 Resp: 16438

Ion Ratio Lower Upper

128 100

127 13.3 10.4 15.6

129 12.0 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

