

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092619\
 Data File : VN058389.D
 Acq On : 26 Sep 2019 16:26
 Operator : JC/SP
 Sample : K5039-09
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30451-52

Quant Time: Sep 27 02:37:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	474505	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	758782	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	595417	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	227215	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	326699	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	
35) Dibromofluoromethane	7.57	113	216712	46.98	ug/l	0.00
Spiked Amount			Recovery	=	93.96%	
50) Toluene-d8	10.09	98	924807	51.46	ug/l	0.00
Spiked Amount			Recovery	=	102.92%	
62) 4-Bromofluorobenzene	12.41	95	274438	41.11	ug/l	0.00
Spiked Amount			Recovery	=	82.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	1848	Below Cal	#	86
4) Vinyl Chloride	2.43	62	69	Below Cal	#	1
5) Bromomethane	2.54	94	380	0.938	ug/l #	7
6) Chloroethane	2.68	64	283	Below Cal	#	44
11) Tert butyl alcohol	4.89	59	42129	53.589	ug/l #	77
13) Acrolein	3.47	56	30	0.258	ug/l #	15
14) Allyl chloride	4.30	41	2282	0.364	ug/l #	22
16) Acetone	3.81	43	134318	59.874	ug/l	100
17) Carbon Disulfide	4.00	76	5165	1.524	ug/l #	92
18) Methyl Acetate	4.30	43	154907	26.242	ug/l	100
20) Methylene Chloride	4.51	84	5701	1.235	ug/l #	91
21) trans-1,2-Dichloroethene	5.00	96	124	Below Cal	#	1
25) 2-Butanone	6.83	43	206460	67.553	ug/l	97
29) Tetrahydrofuran	7.24	42	7869	4.180	ug/l #	61
31) Cyclohexane	7.64	56	11885	Below Cal	#	17
36) 1,1-Dichloropropene	7.65	75	40873	7.470	ug/l #	47
37) Ethyl Acetate	6.83	43	206460	36.357	ug/l #	70
38) Carbon Tetrachloride	7.64	117	47240	8.588	ug/l #	15
40) Benzene	8.02	78	54282	3.248	ug/l	96
41) Methacrylonitrile	7.24	41	28889	10.825	ug/l #	100
43) Isopropyl Acetate	8.16	43	67388	6.354	ug/l #	57
49) 1,4-Dioxane	9.21	88	4057	51.316	ug/l #	75
51) 4-Methyl-2-Pentanone	9.99	43	3496	0.621	ug/l	99
52) Toluene	10.15	92	74871	7.148	ug/l	98
67) Ethyl Benzene	11.51	91	18581	1.035	ug/l	99
68) m/p-Xylenes	11.62	106	29688	4.393	ug/l	98
69) o-Xylene	11.95	106	13123	1.975	ug/l	99
71) Bromoform	12.39	173	58	3.614	ug/l #	1
73) Isopropylbenzene	12.26	105	3211	0.226	ug/l	95
74) N-amyl acetate	12.00	43	10086	1.695	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	147098	36.174	ug/l #	100
78) n-propylbenzene	12.60	91	6048	0.374	ug/l	94
79) 2-Chlorotoluene	12.67	91	2216	0.219	ug/l #	50
80) 1,3,5-Trimethylbenzene	12.74	105	9070	0.754	ug/l	97

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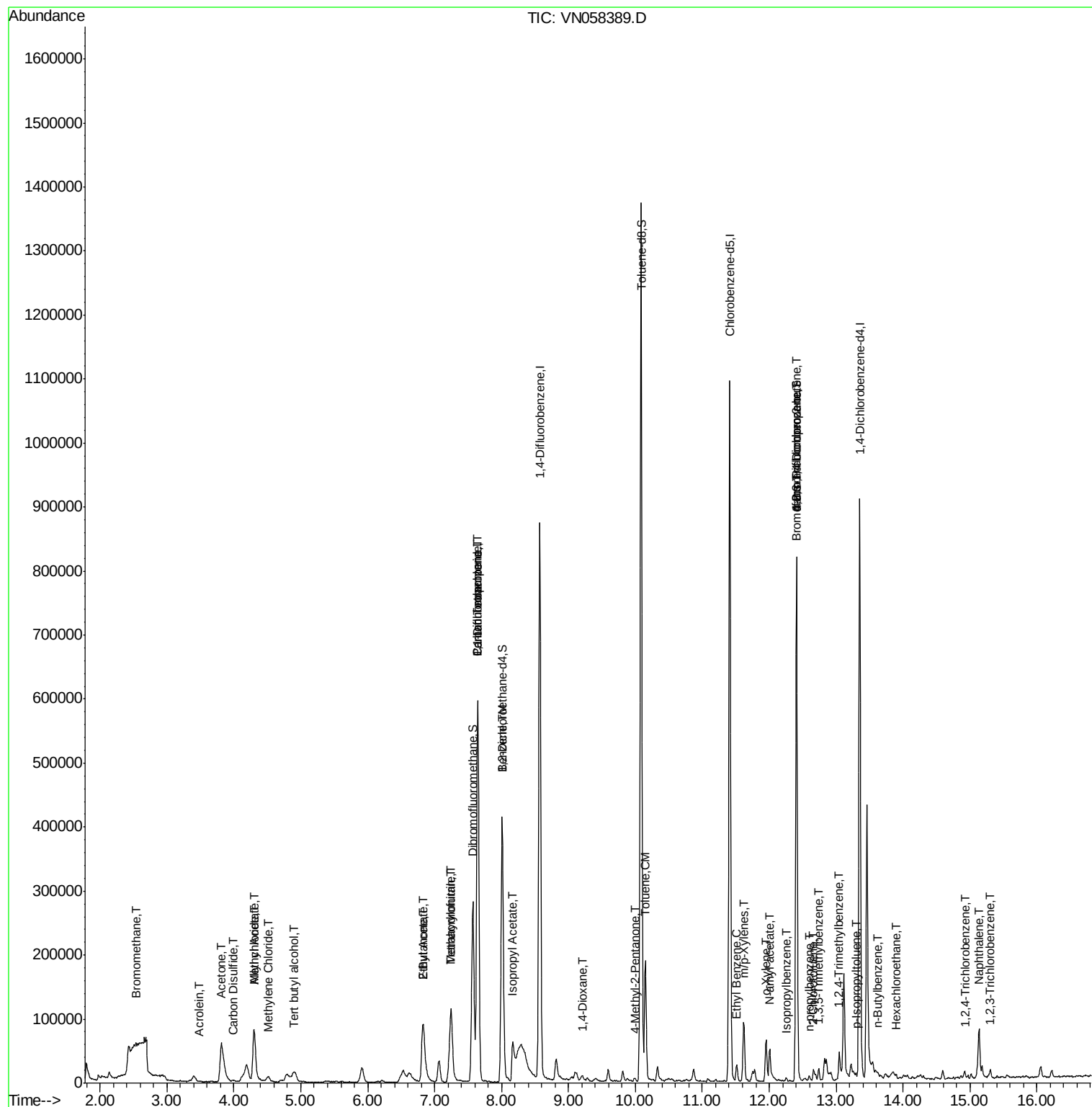
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
81) trans-1,4-Dichloro-2-buten	12.41	75	147098	100.997	ug/l #	5
84) 1,2,4-Trimethylbenzene	13.05	105	22962	1.919	ug/l	100
86) p-Isopropyltoluene	13.30	119	3168	0.254	ug/l	86
89) n-Butylbenzene	13.62	91	3947	0.334	ug/l	97
90) Hexachloroethane	13.90	117	304	2.954	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.92	180	2976	0.711	ug/l	93
95) Naphthalene	15.14	128	58374	5.379	ug/l	97
96) 1,2,3-Trichlorobenzene	15.30	180	3801	0.960	ug/l	97

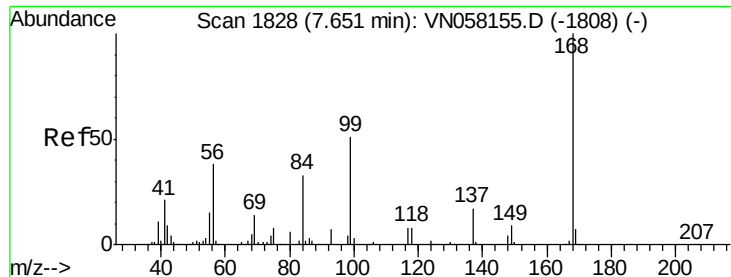
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN092619\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.01 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

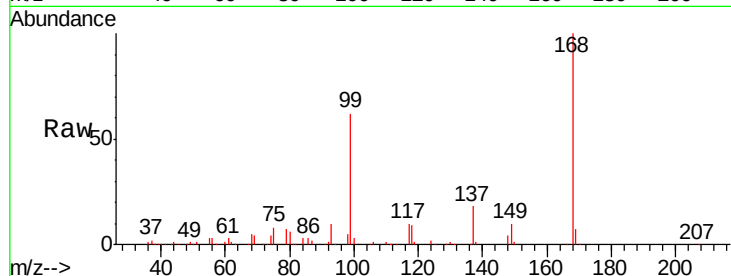
30451-52

Tgt Ion:168 Resp: 474505

Ion Ratio Lower Upper

168 100

99 61.6 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.64

200000

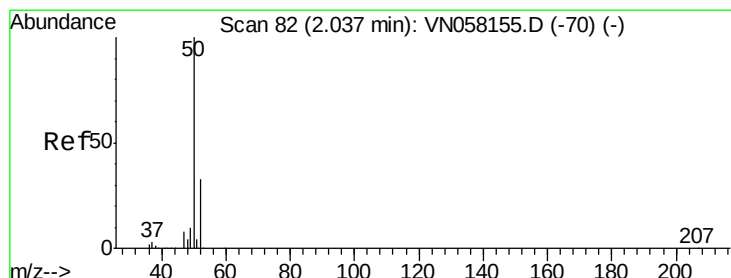
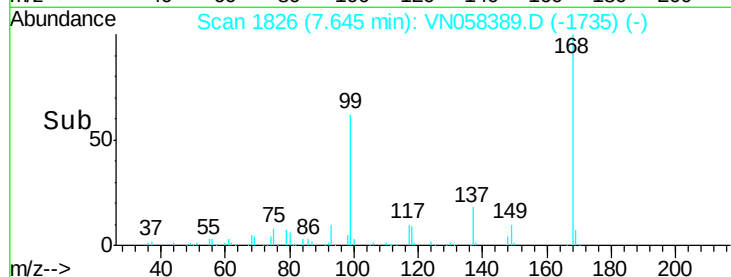
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 79

Delta R.T. -0.01 min

Lab File: VN058389.D

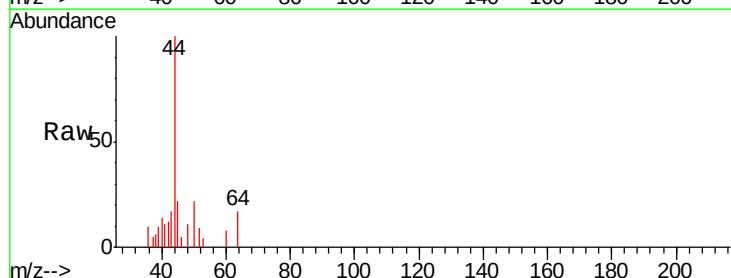
Acq: 26 Sep 2019 16:26

Tgt Ion: 50 Resp: 1848

Ion Ratio Lower Upper

50 100

52 40.5 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.03

1000

800

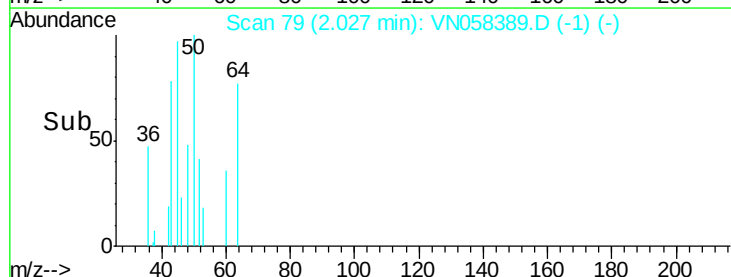
600

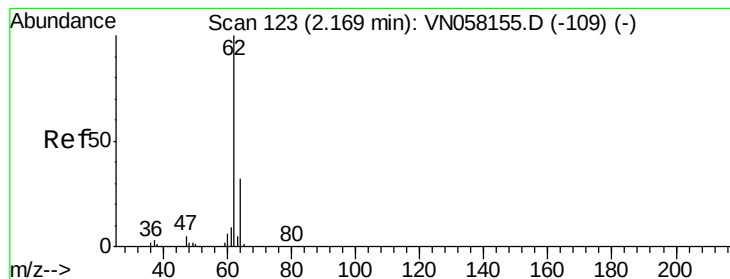
400

200

0

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.43 min Scan# 204

Delta R.T. 0.26 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Instrument :

MSVOA_N

ClientSampled :

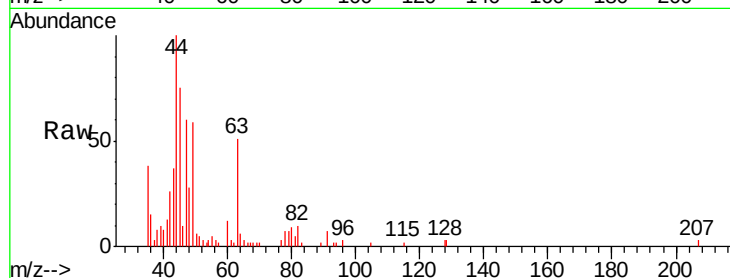
30451-52

Tgt Ion: 62 Resp: 69

Ion Ratio Lower Upper

62 100

64 137.2 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

600

500

400

300

200

100

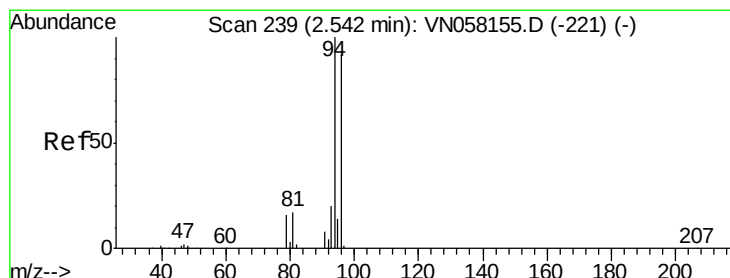
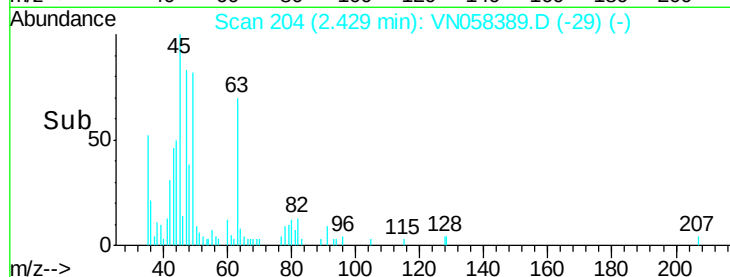
0

2.42

2.43

2.44

Time-->



#5

Bromomethane

Concen: 0.938 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.00 min

Lab File: VN058389.D

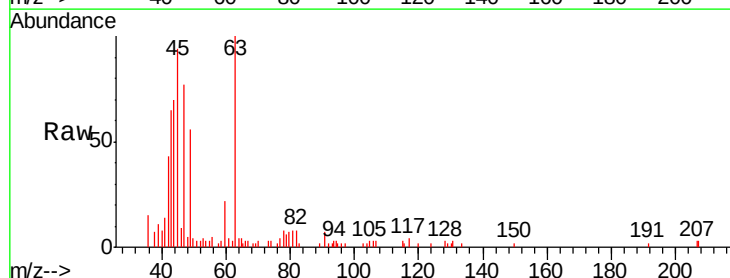
Acq: 26 Sep 2019 16:26

Tgt Ion: 94 Resp: 380

Ion Ratio Lower Upper

94 100

96 3.6 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

500

400

300

200

100

0

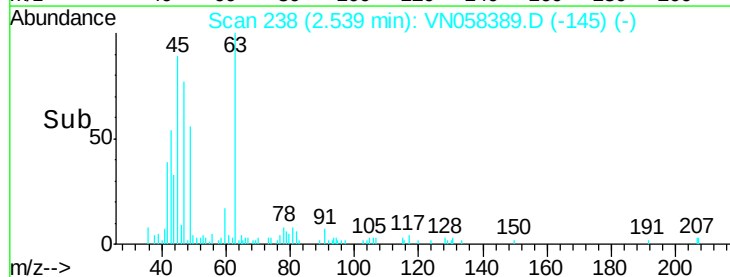
2.53

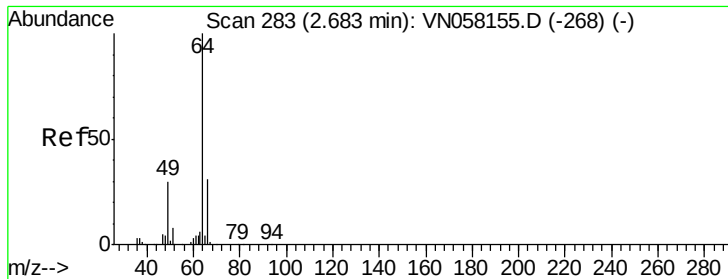
2.54

2.55

2.56

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Instrument :

MSVOA_N

ClientSampled :

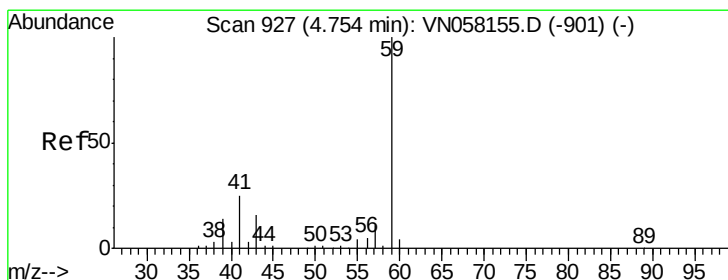
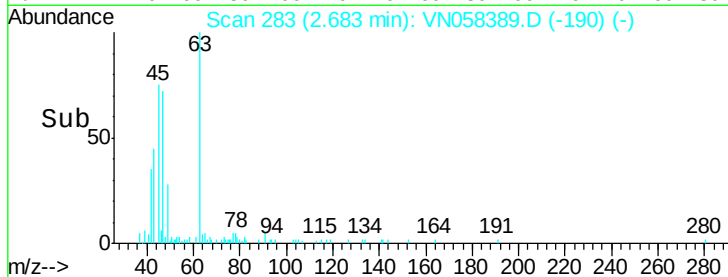
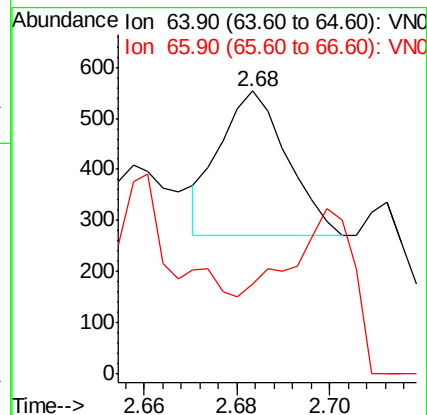
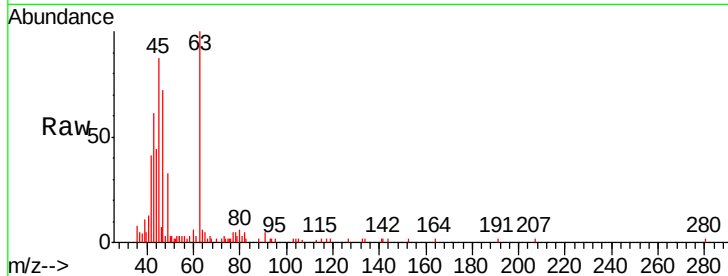
30451-52

Tgt Ion: 64 Resp: 283

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



#11

Tert butyl alcohol

Concen: 53.589 ug/l

RT: 4.89 min Scan# 970

Delta R.T. 0.14 min

Lab File: VN058389.D

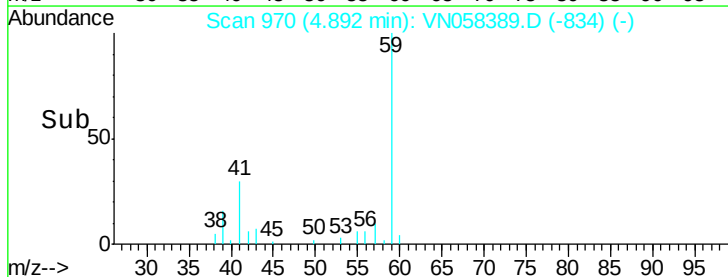
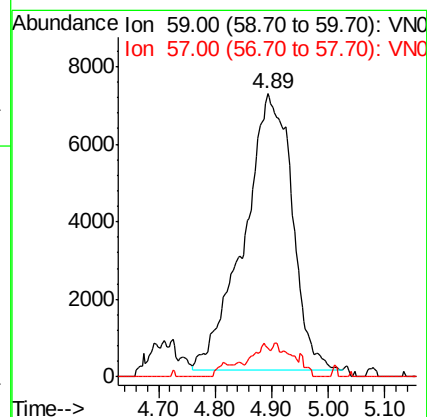
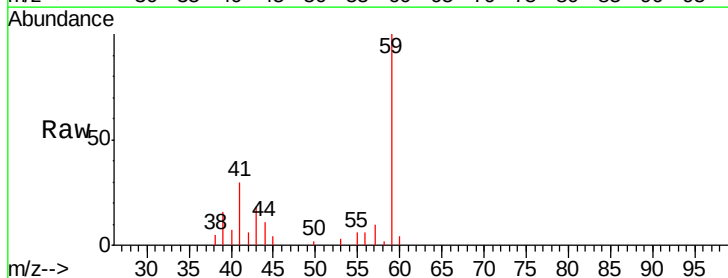
Acq: 26 Sep 2019 16:26

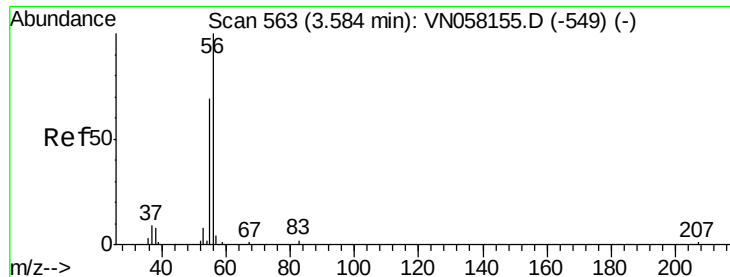
Tgt Ion: 59 Resp: 42129

Ion Ratio Lower Upper

59 100

57 2.1 8.6 13.0#





#13

Acrolein

Concen: 0.258 ug/l

RT: 3.47 min Scan# 529

Delta R.T. -0.11 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

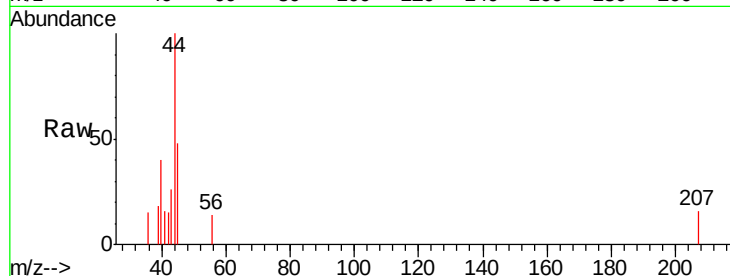
30451-52

Tgt Ion: 56 Resp: 30

Ion Ratio Lower Upper

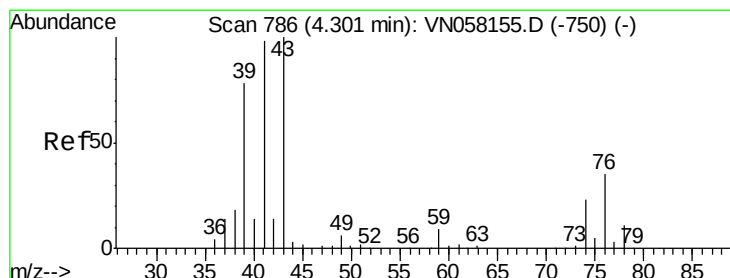
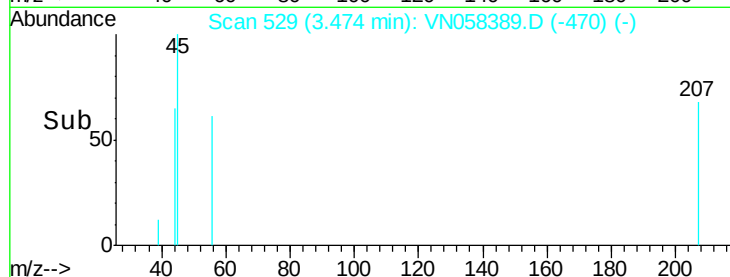
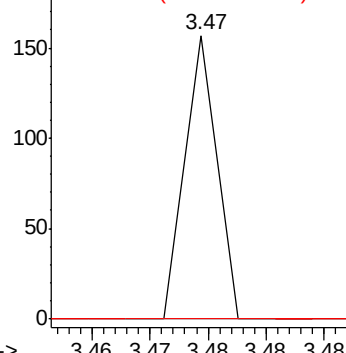
56 100

55 0.0 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 0.364 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.00 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

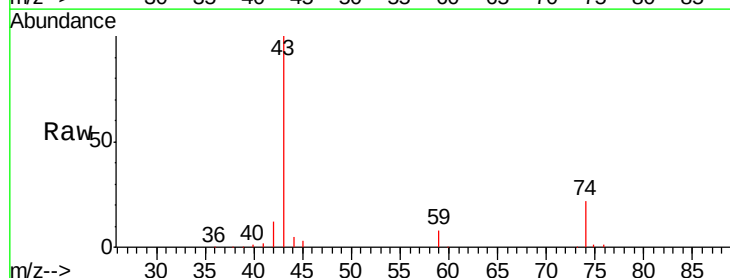
Tgt Ion: 41 Resp: 2282

Ion Ratio Lower Upper

41 100

39 0.0 59.1 88.7#

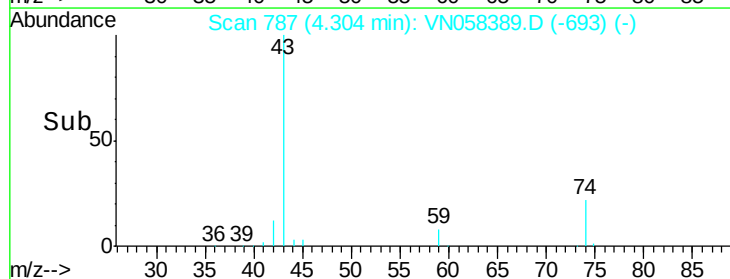
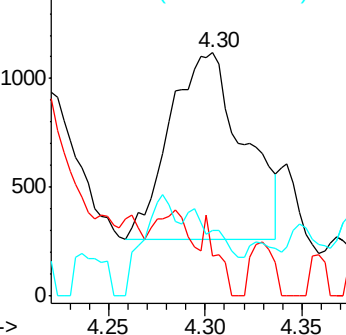
76 0.0 25.1 37.7#

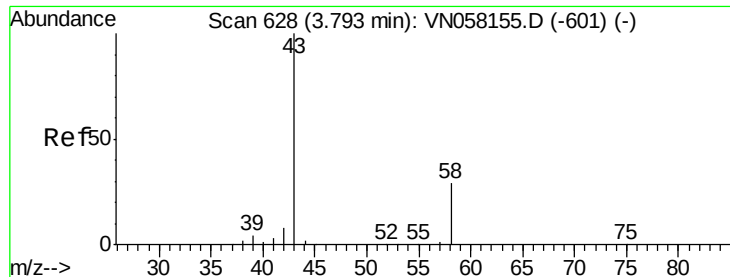


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#16

Acetone

Concen: 59.874 ug/l

RT: 3.81 min Scan# 634

Delta R.T. 0.02 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

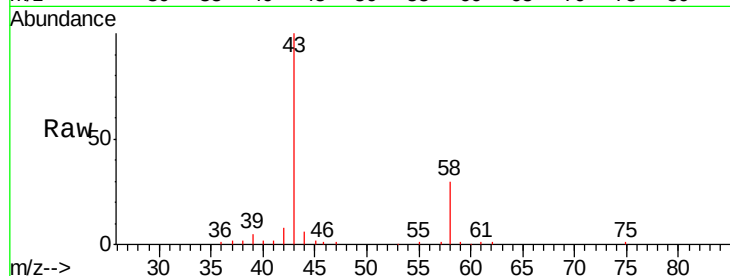
30451-52

Tgt Ion: 43 Resp: 134318

Ion Ratio Lower Upper

43 100

58 29.3 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.81

40000

30000

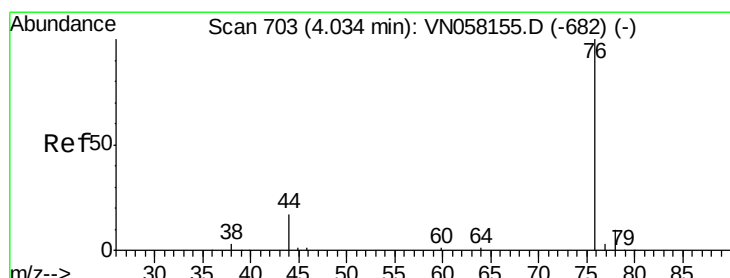
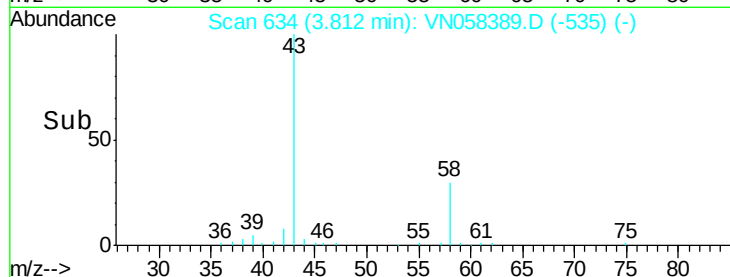
20000

10000

0

Time-->

3.70 3.80 3.90 4.00



#17

Carbon Disulfide

Concen: 1.524 ug/l

RT: 4.00 min Scan# 691

Delta R.T. -0.04 min

Lab File: VN058389.D

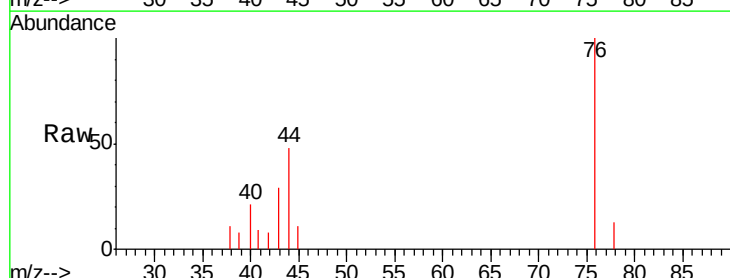
Acq: 26 Sep 2019 16:26

Tgt Ion: 76 Resp: 5165

Ion Ratio Lower Upper

76 100

78 12.6 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.00

2000

1500

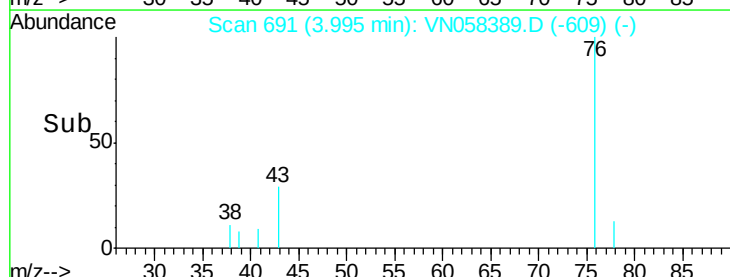
1000

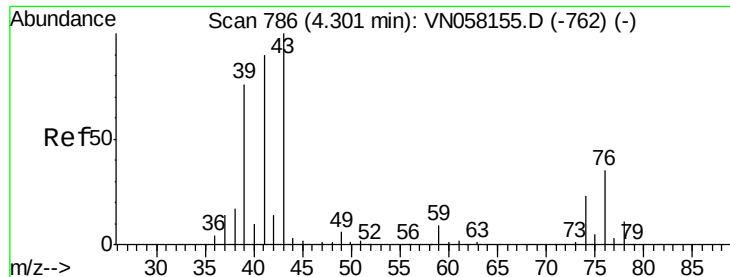
500

0

Time-->

3.90 3.95 4.00 4.05

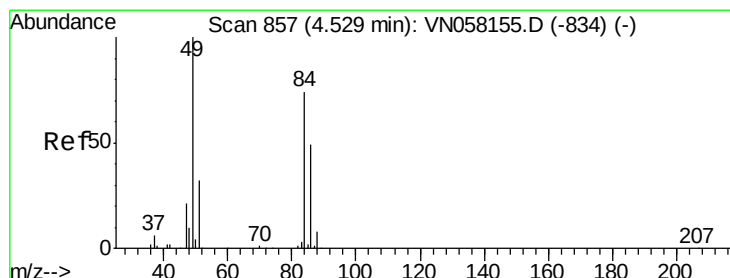
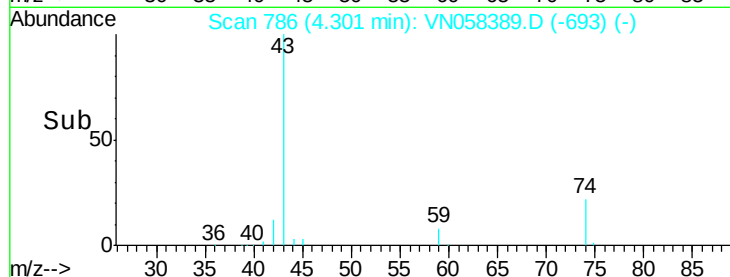
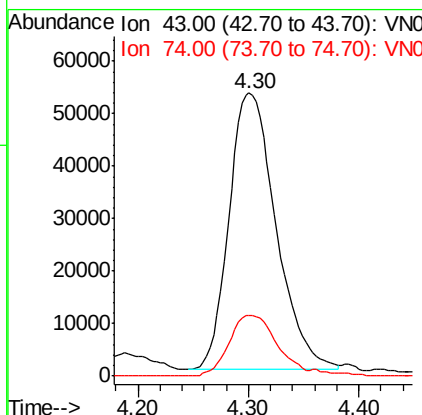
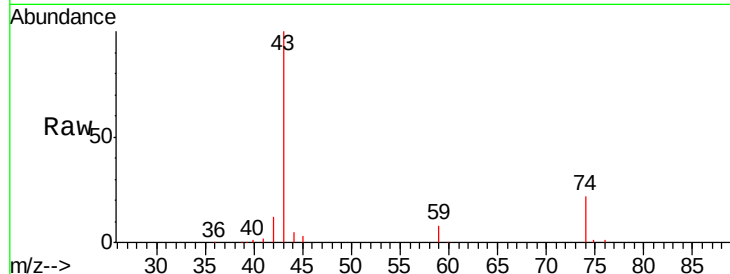




#18
Methyl Acetate
Concen: 26.242 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.00 min
Lab File: VN058389.D
Acq: 26 Sep 2019 16:26

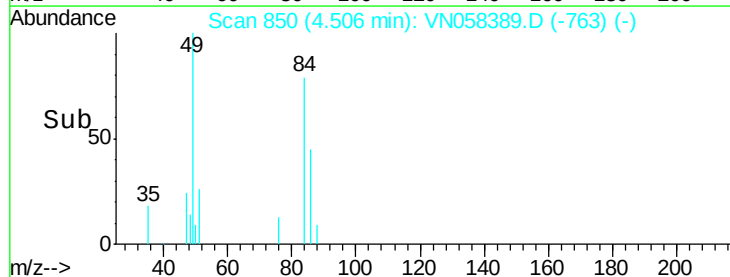
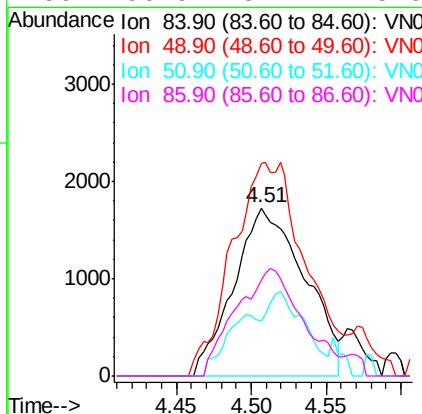
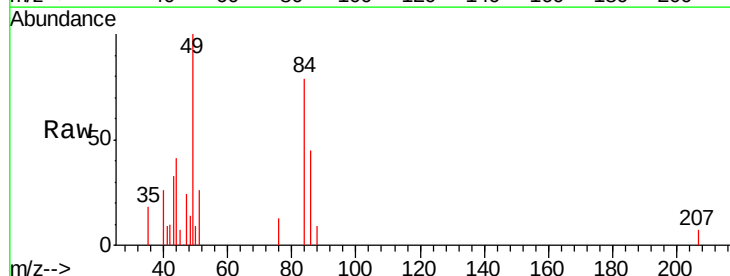
Instrument :
MSVOA_N
ClientSampleId :
30451-52

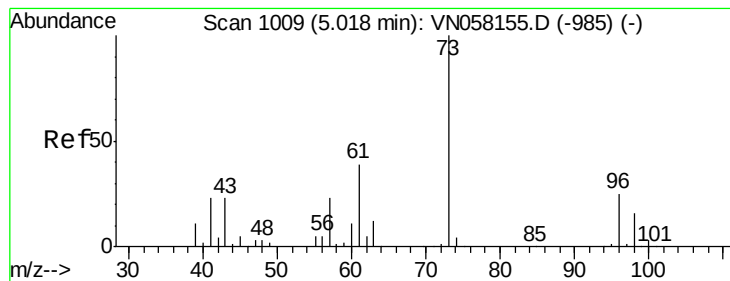
Tgt Ion: 43 Resp: 154907
Ion Ratio Lower Upper
43 100
74 22.4 18.0 27.0



#20
Methylene Chloride
Concen: 1.235 ug/l
RT: 4.51 min Scan# 850
Delta R.T. -0.02 min
Lab File: VN058389.D
Acq: 26 Sep 2019 16:26

Tgt Ion: 84 Resp: 5701
Ion Ratio Lower Upper
84 100
49 126.3 107.5 161.3
51 32.7 33.9 50.9#
86 56.9 52.4 78.6





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 5.00 min Scan# 1005

Delta R.T. -0.01 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

30451-52

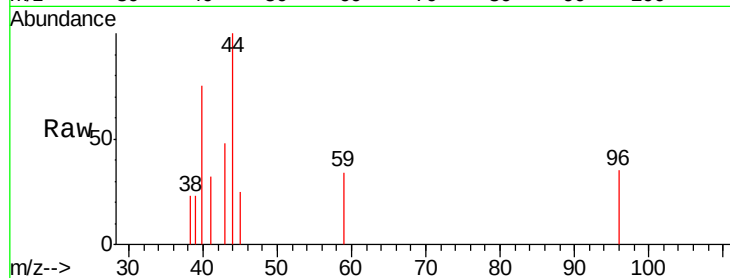
Tgt Ion: 96 Resp: 124

Ion Ratio Lower Upper

96 100

61 0.0 122.2 183.4#

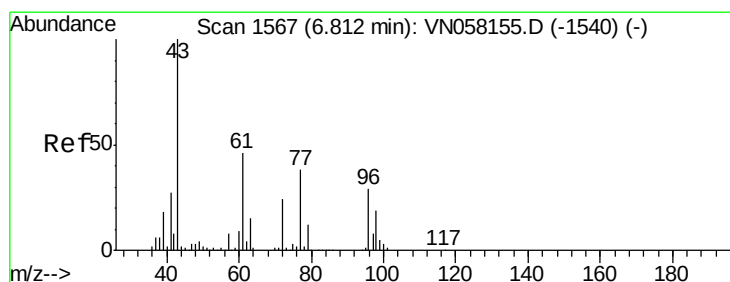
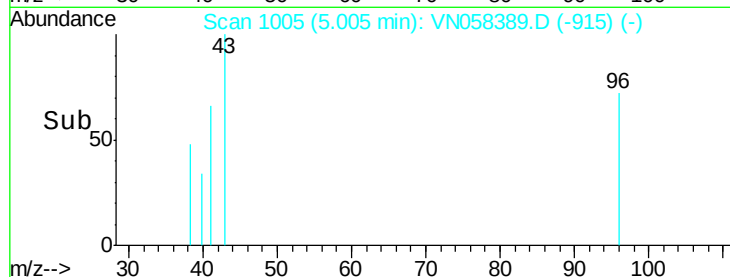
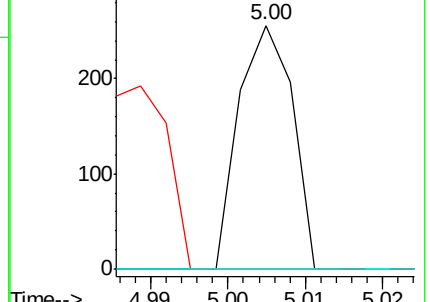
98 0.0 49.9 74.9#



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#25

2-Butanone

Concen: 67.553 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.02 min

Lab File: VN058389.D

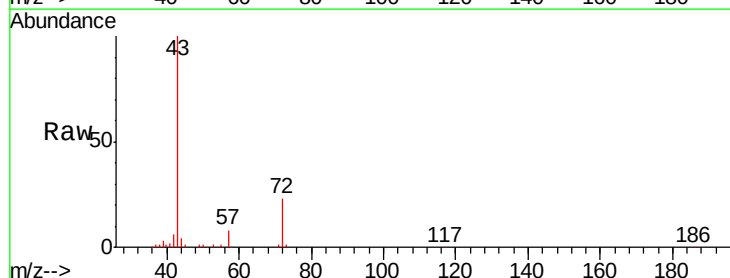
Acq: 26 Sep 2019 16:26

Tgt Ion: 43 Resp: 206460

Ion Ratio Lower Upper

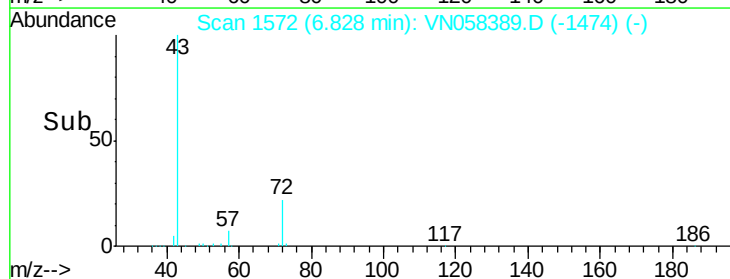
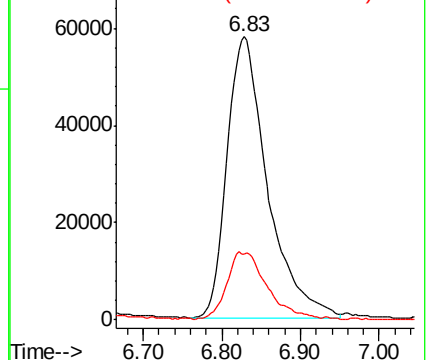
43 100

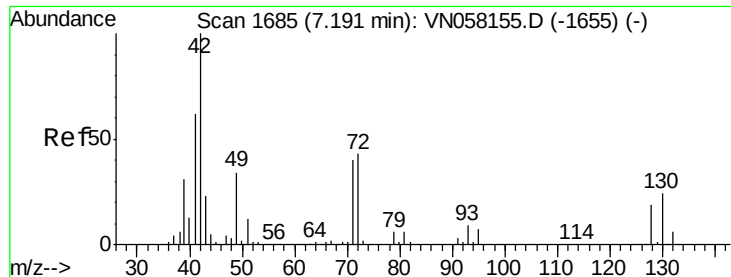
72 23.0 19.5 29.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 4.180 ug/l

RT: 7.24 min Scan# 1700

Delta R.T. 0.05 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

30451-52

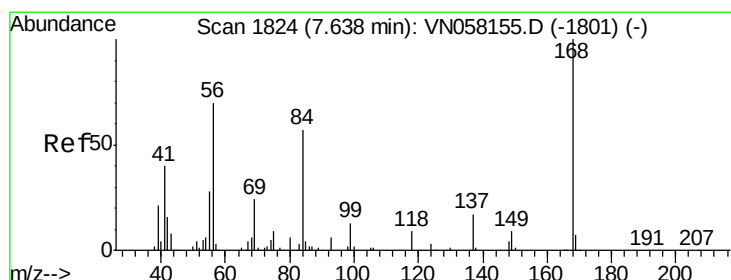
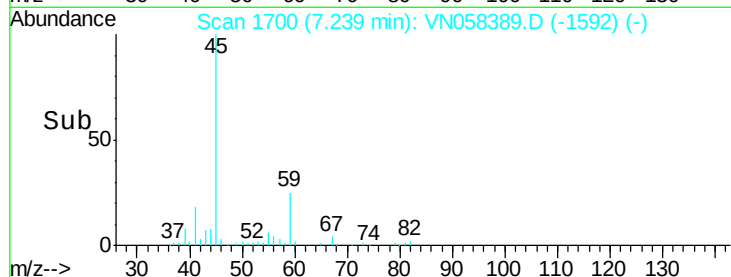
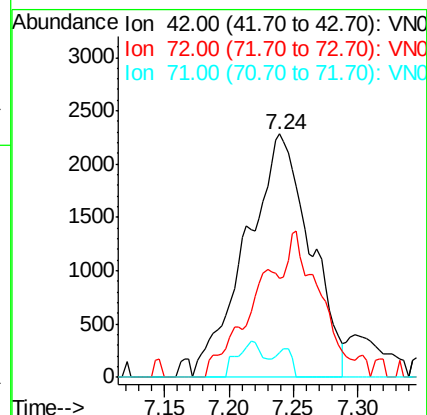
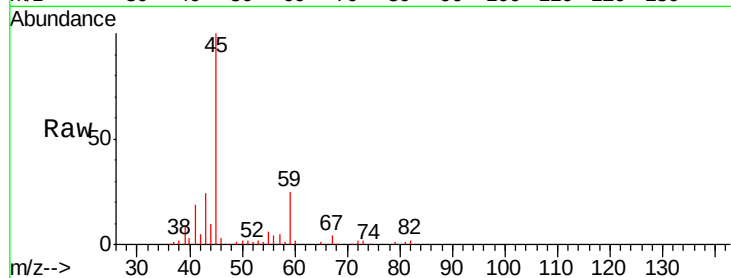
Tgt Ion: 42 Resp: 7869

Ion Ratio Lower Upper

42 100

72 30.1 33.8 50.6#

71 2.8 31.4 47.0#



#31

Cyclohexane

Concen: Below Cal

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

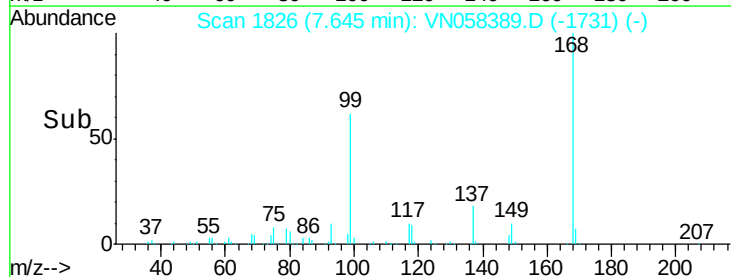
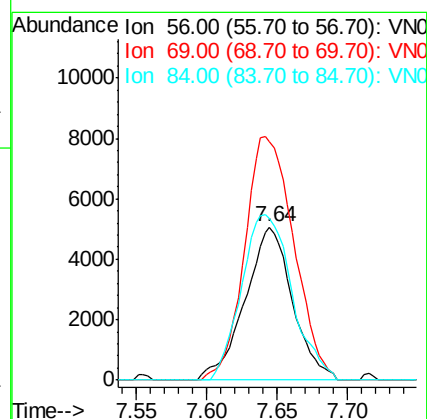
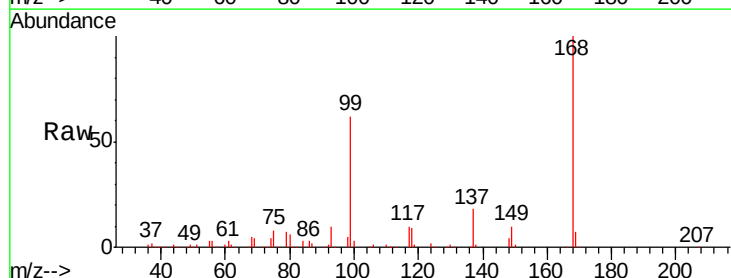
Tgt Ion: 56 Resp: 11885

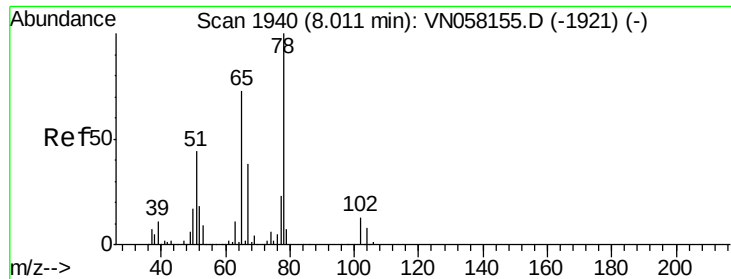
Ion Ratio Lower Upper

56 100

69 155.9 27.3 40.9#

84 106.2 65.0 97.4#

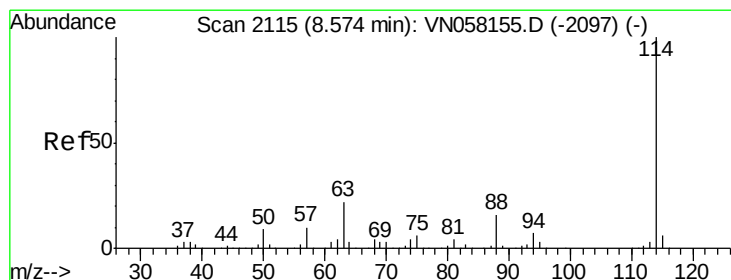
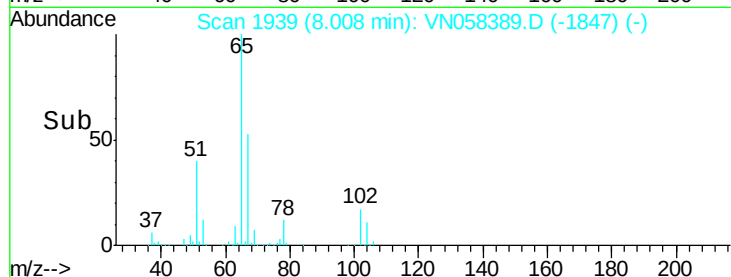
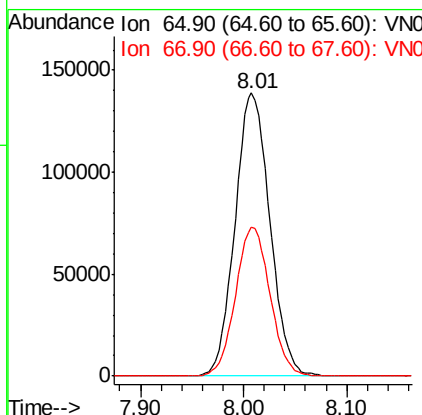
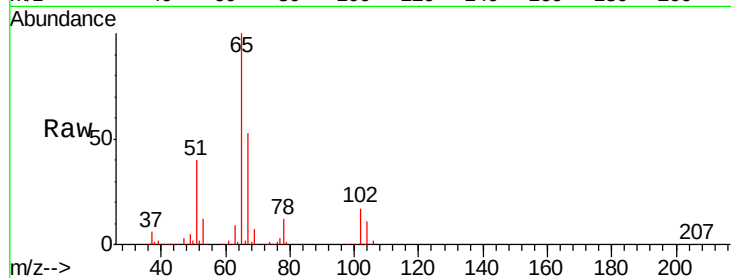




#33
 1,2-Dichloroethane-d4
 Concen: 49.433 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN058389.D
 Acq: 26 Sep 2019 16:26

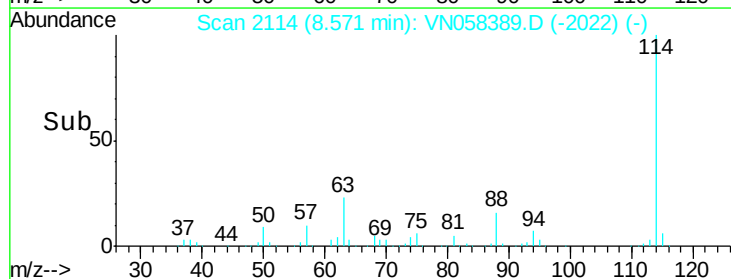
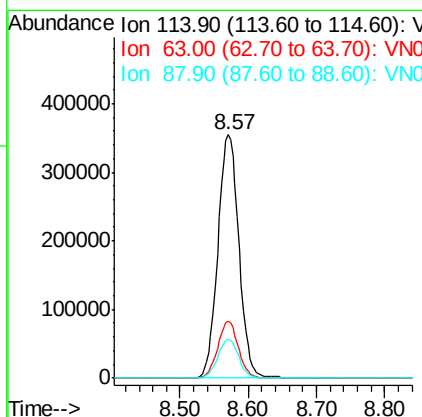
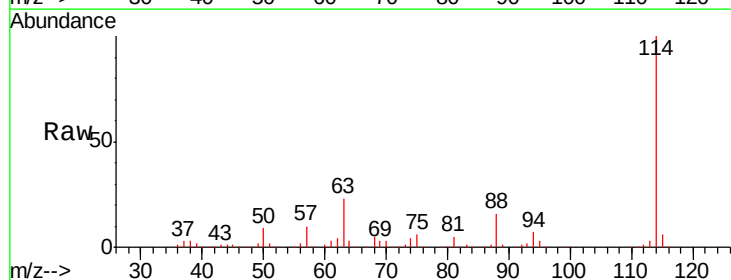
Instrument :
 MSVOA_N
 ClientSampleId :
 30451-52

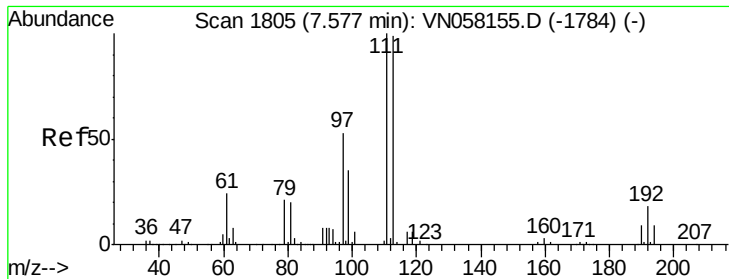
Tgt Ion: 65 Resp: 326699
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VN058389.D
 Acq: 26 Sep 2019 16:26

Tgt Ion: 114 Resp: 758782
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 44.2
 88 15.9 0.0 31.6





#35

Dibromofluoromethane

Concen: 46.981 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.01 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

30451-52

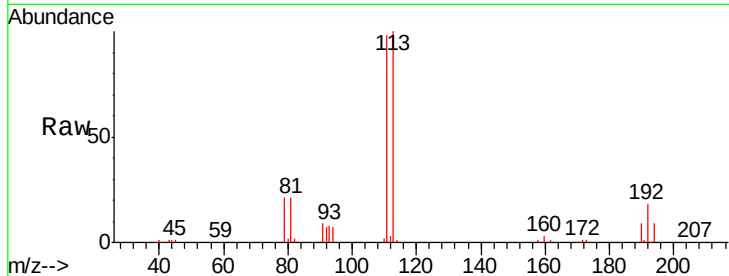
Tgt Ion:113 Resp: 216712

Ion Ratio Lower Upper

113 100

111 102.6 81.8 122.6

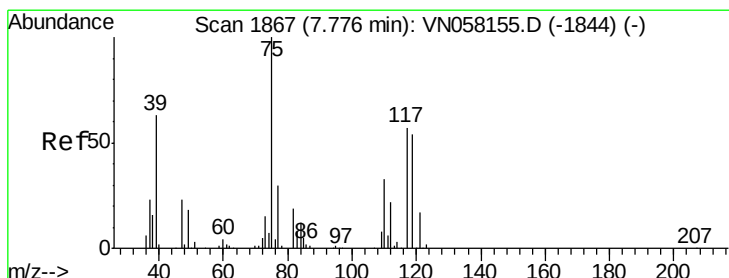
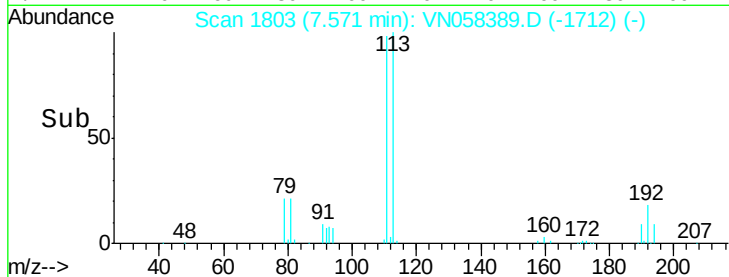
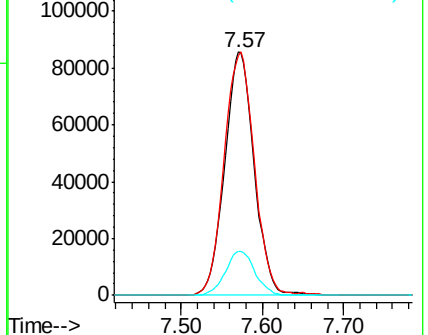
192 18.4 14.5 21.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 7.470 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.13 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

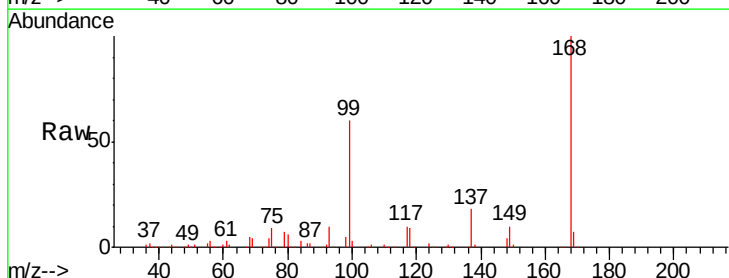
Tgt Ion: 75 Resp: 40873

Ion Ratio Lower Upper

75 100

110 4.1 16.6 49.7#

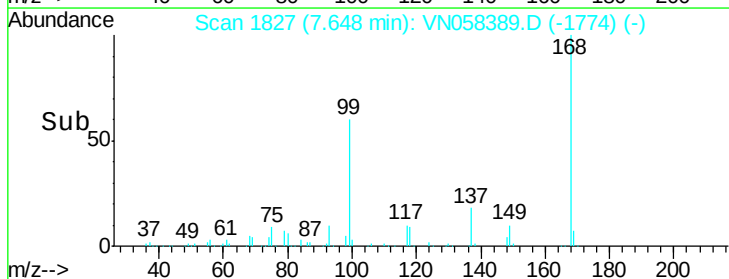
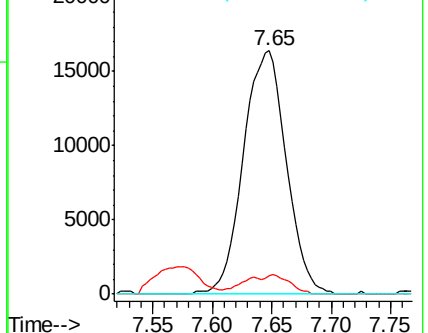
77 0.0 24.3 36.5#

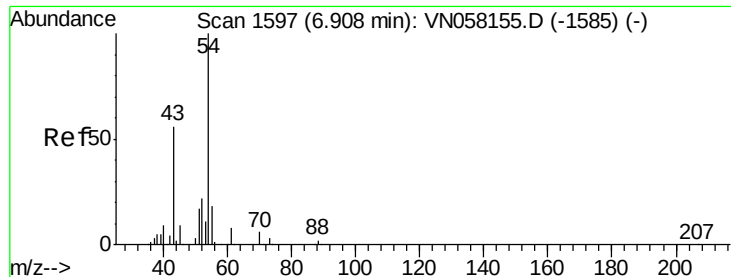


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

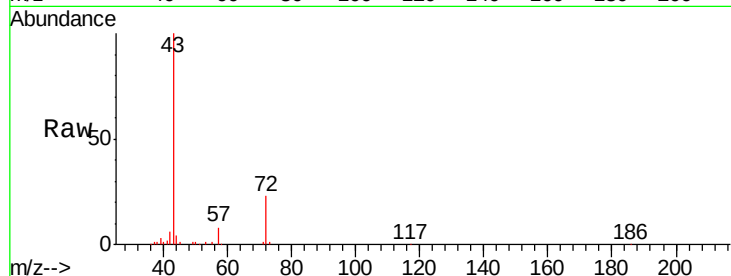




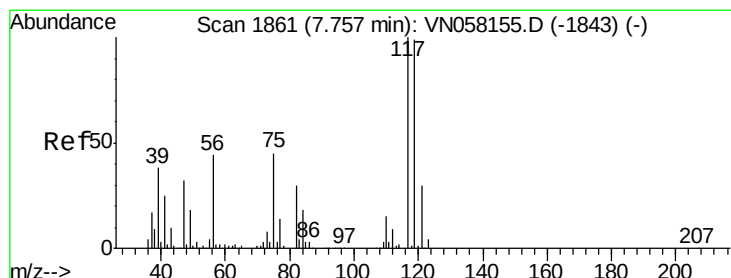
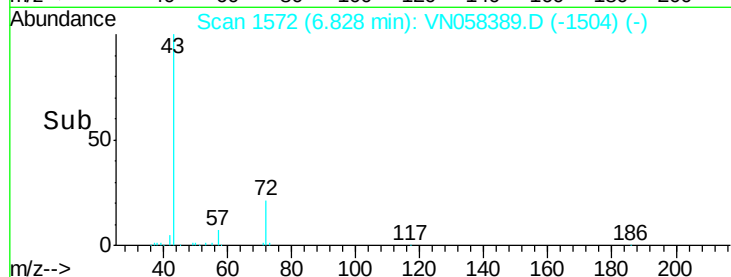
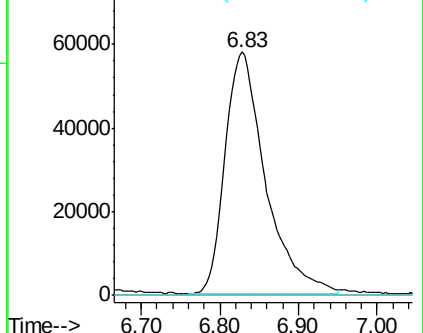
#37
 Ethyl Acetate
 Concen: 36.357 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.08 min
 Lab File: VN058389.D
 Acq: 26 Sep 2019 16:26

Instrument :
 MSVOA_N
 ClientSampleId :
 30451-52

Tgt Ion: 43 Resp: 206460
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.7 16.1#
 70 0.1 7.6 11.4#

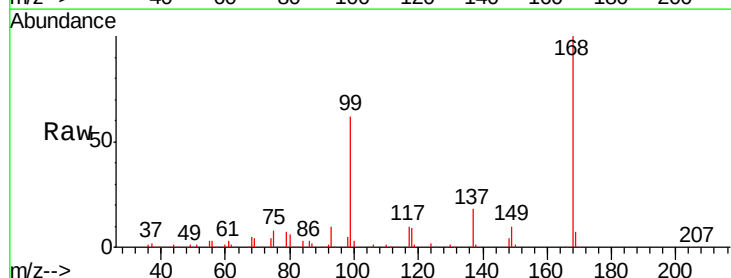


Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0

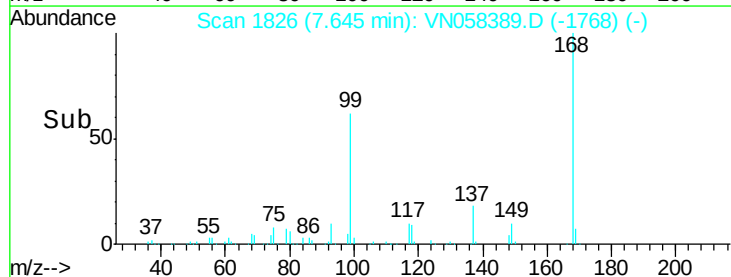
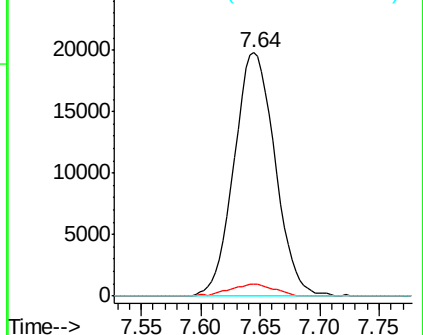


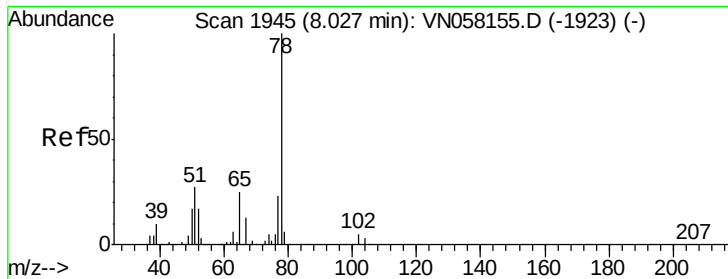
#38
 Carbon Tetrachloride
 Concen: 8.588 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN058389.D
 Acq: 26 Sep 2019 16:26

Tgt Ion: 117 Resp: 47240
 Ion Ratio Lower Upper
 117 100
 119 5.2 78.6 117.8#
 121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 3.248 ug/l

RT: 8.02 min Scan# 1943

Delta R.T. -0.01 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

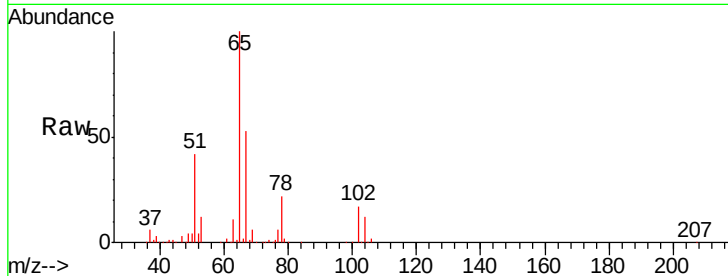
30451-52

Tgt Ion: 78 Resp: 54282

Ion Ratio Lower Upper

78 100

77 25.6 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

8.02

25000

20000

15000

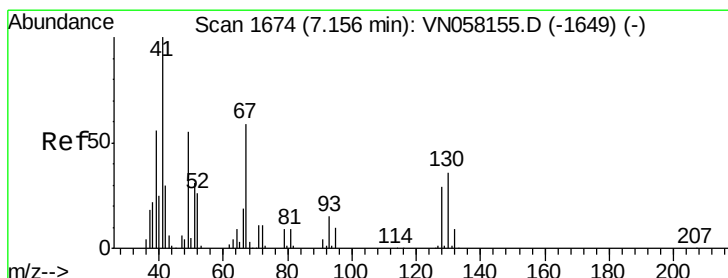
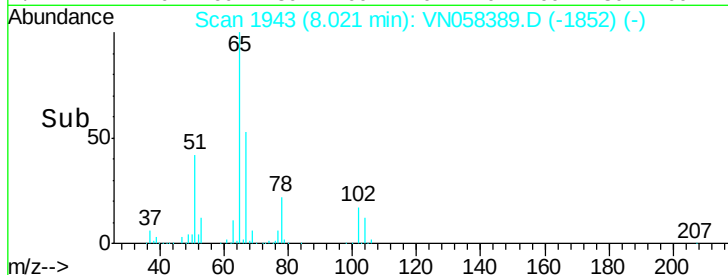
10000

5000

0

7.95 8.00 8.05 8.10

Time-->



#41

Methacrylonitrile

Concen: 10.825 ug/l

RT: 7.24 min Scan# 1700

Delta R.T. 0.08 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Tgt Ion: 41 Resp: 28889

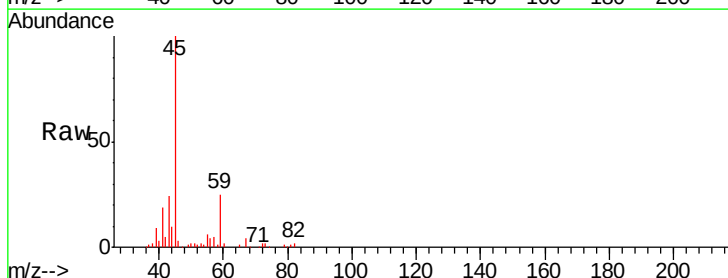
Ion Ratio Lower Upper

41 100

39 49.6 0.0 0.0#

67 28.0 0.0 0.0#

52 1.3 0.0 0.0#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

7.24

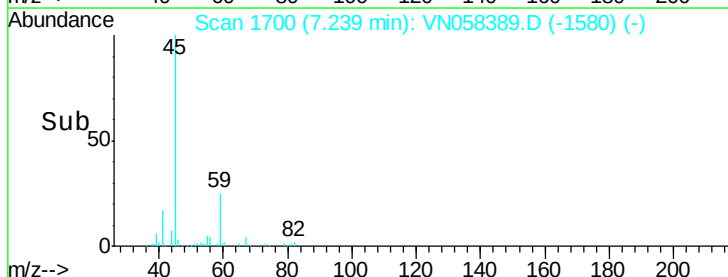
10000

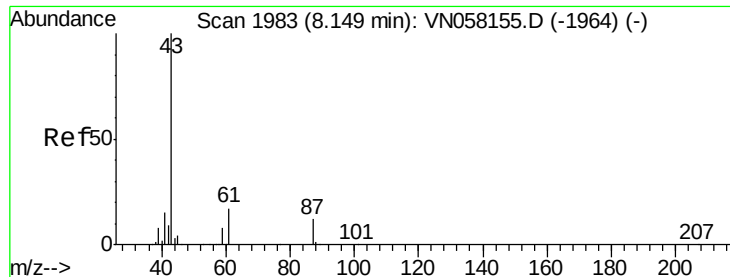
5000

0

7.20 7.30

Time-->





#43

Isopropyl Acetate

Concen: 6.354 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.01 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

30451-52

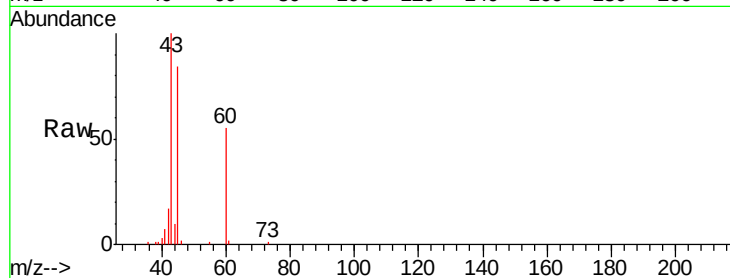
Tgt Ion: 43 Resp: 67388

Ion Ratio Lower Upper

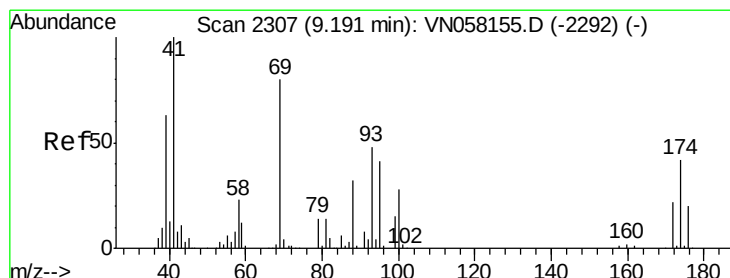
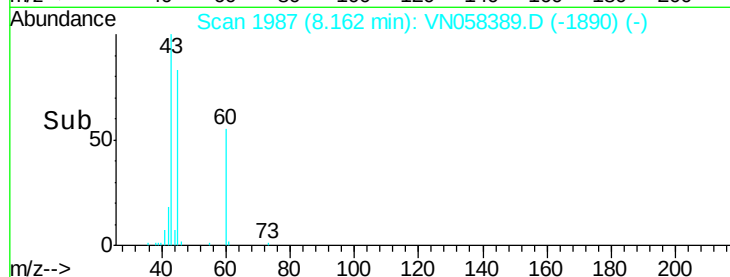
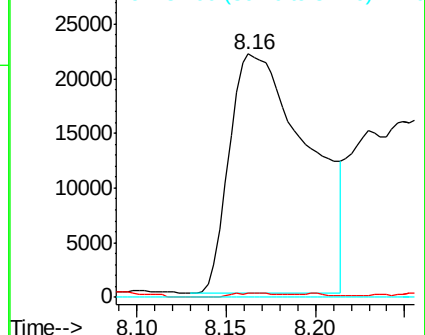
43 100

61 0.4 19.7 29.5#

87 0.0 9.4 14.2#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#49

1,4-Dioxane

Concen: 51.316 ug/l

RT: 9.21 min Scan# 2314

Delta R.T. 0.02 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

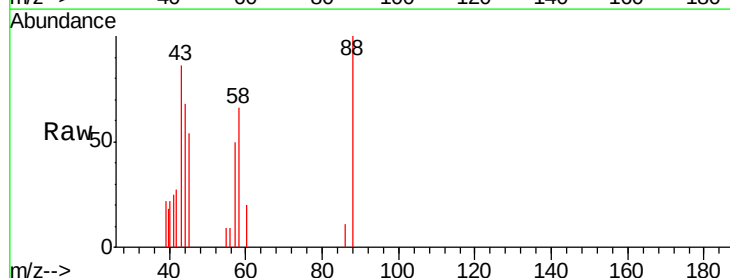
Tgt Ion: 88 Resp: 4057

Ion Ratio Lower Upper

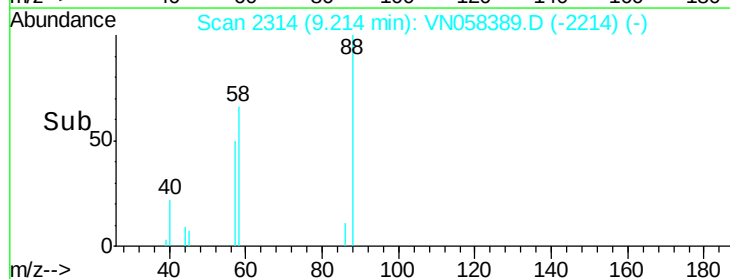
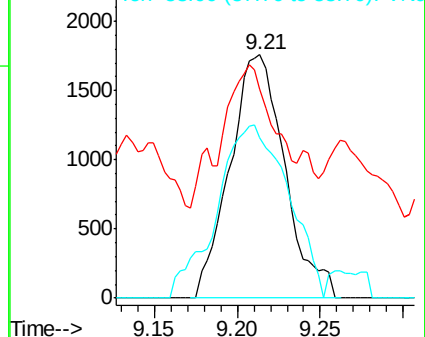
88 100

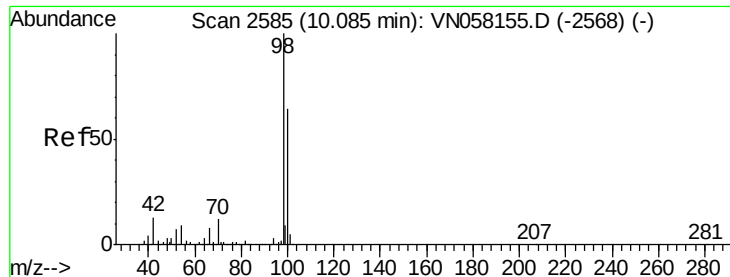
43 44.5 27.8 41.8#

58 92.4 55.0 82.4#



Abundance Ion 88.00 (87.70 to 88.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 51.457 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

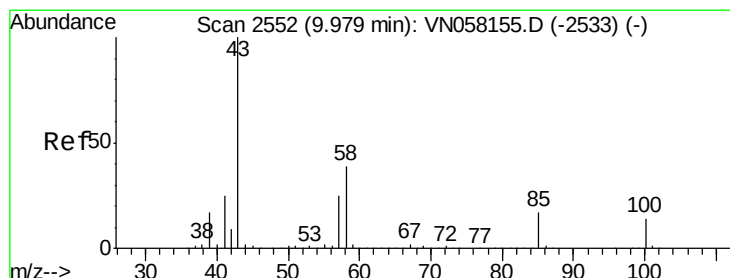
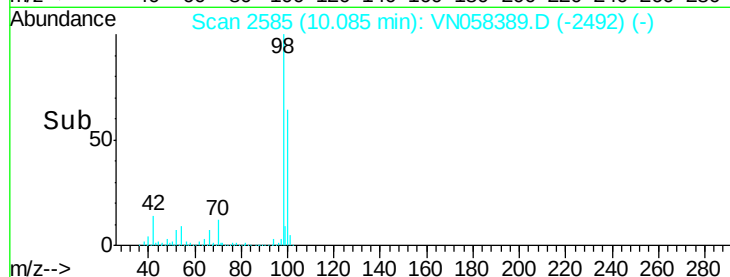
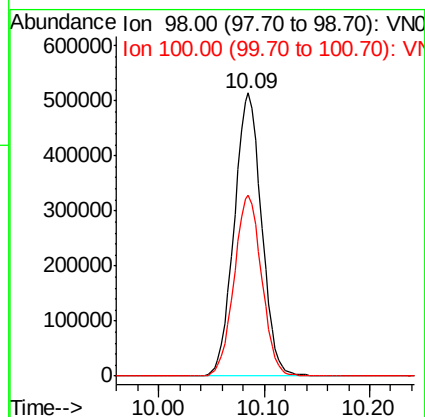
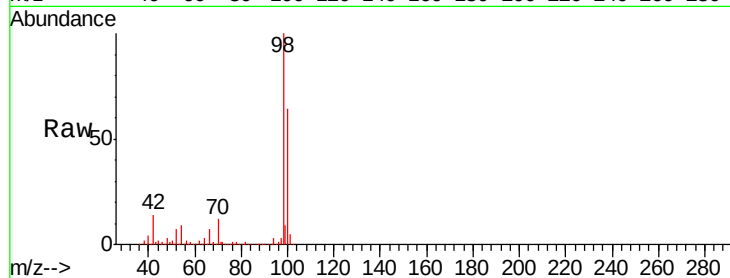
30451-52

Tgt Ion: 98 Resp: 924807

Ion Ratio Lower Upper

98 100

100 64.3 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.621 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN058389.D

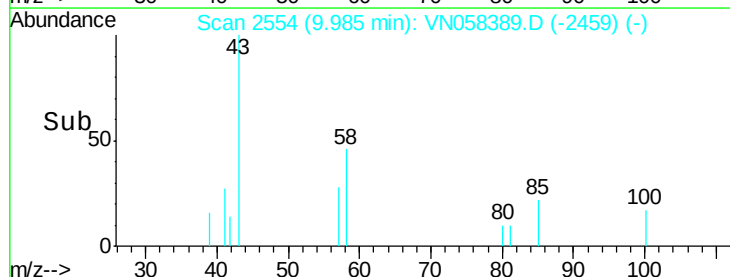
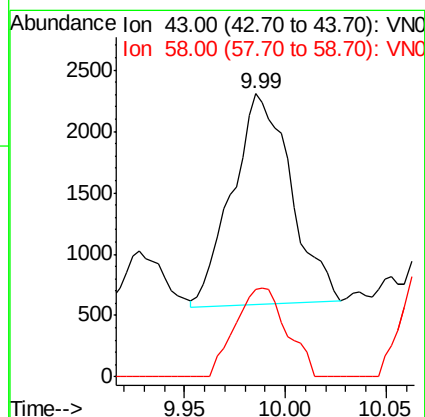
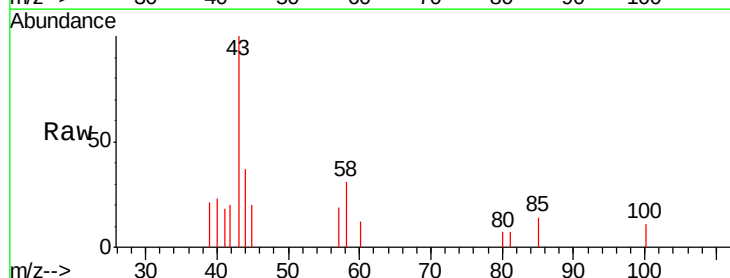
Acq: 26 Sep 2019 16:26

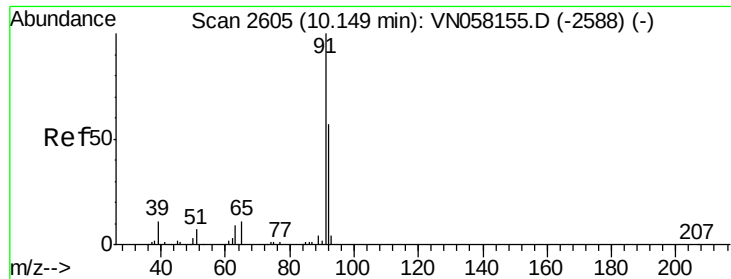
Tgt Ion: 43 Resp: 3496

Ion Ratio Lower Upper

43 100

58 37.0 30.2 45.4





#52

Toluene

Concen: 7.148 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

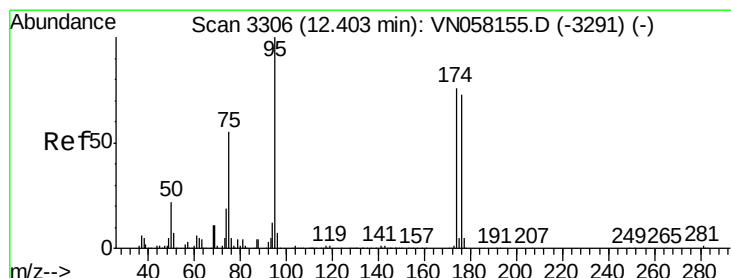
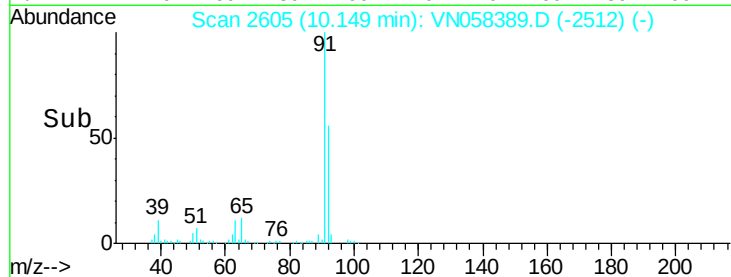
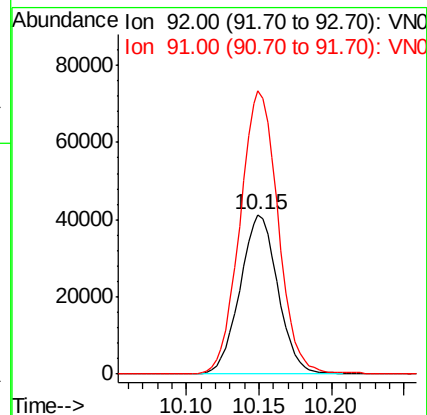
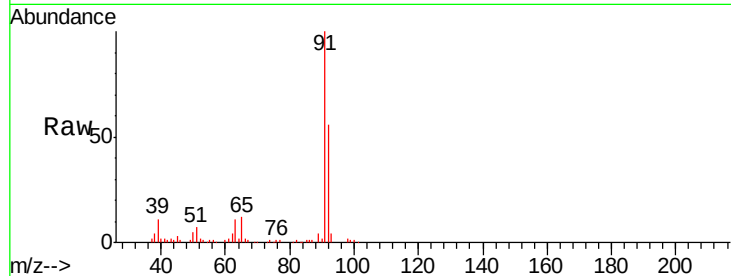
30451-52

Tgt Ion: 92 Resp: 74871

Ion Ratio Lower Upper

92 100

91 178.4 140.2 210.2



#62

4-Bromofluorobenzene

Concen: 41.108 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

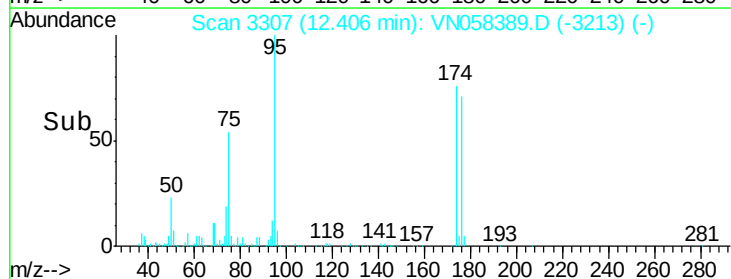
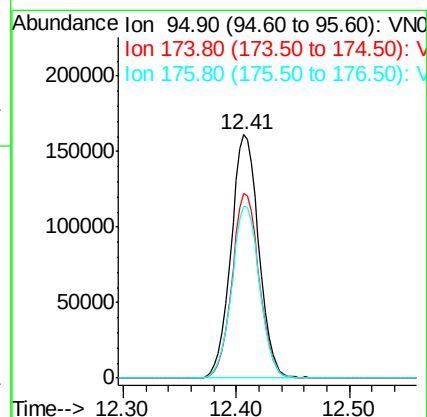
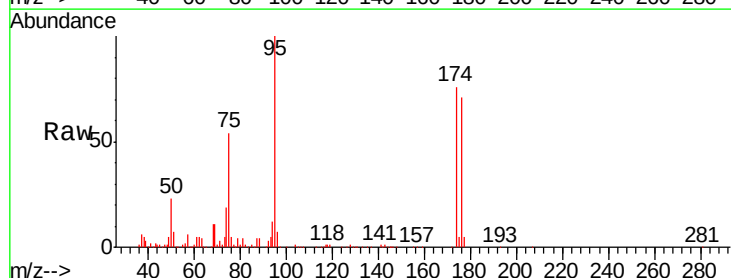
Tgt Ion: 95 Resp: 274438

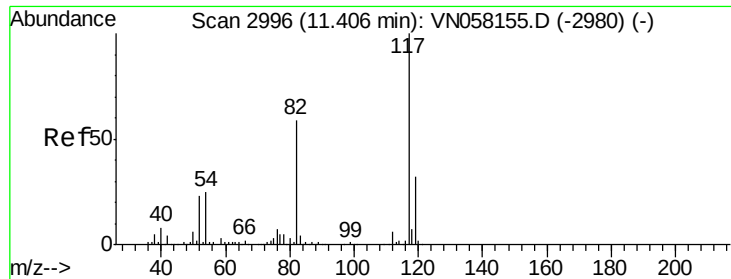
Ion Ratio Lower Upper

95 100

174 74.4 0.0 152.2

176 70.7 0.0 148.0

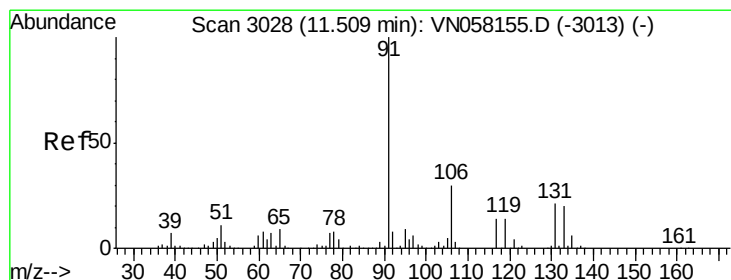
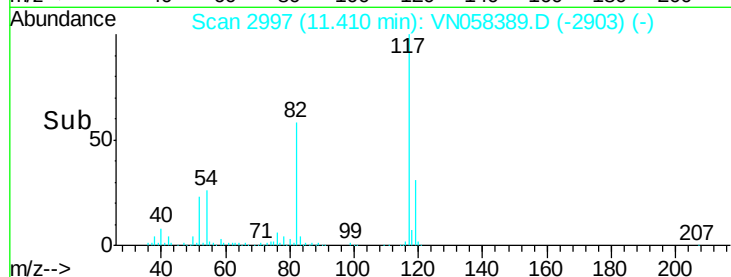
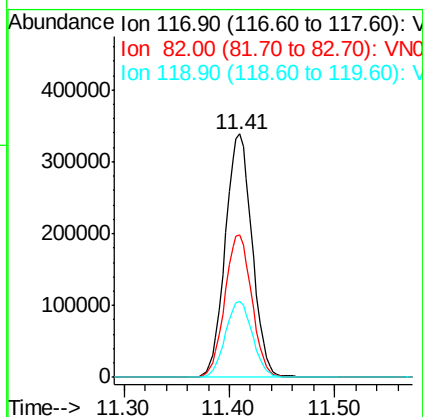
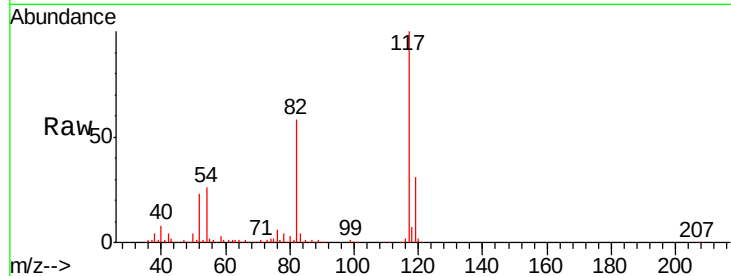




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058389.D
Acq: 26 Sep 2019 16:26

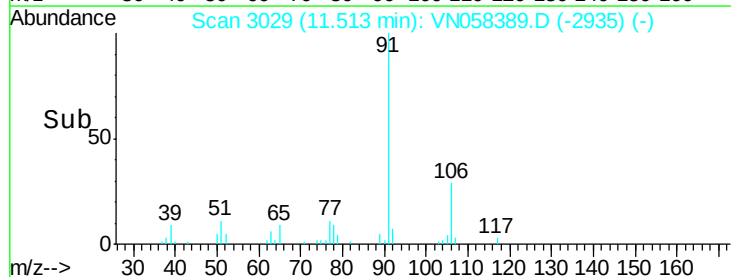
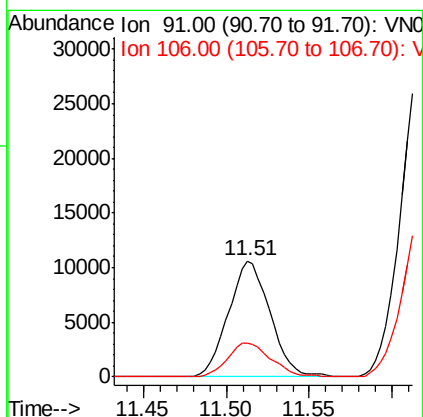
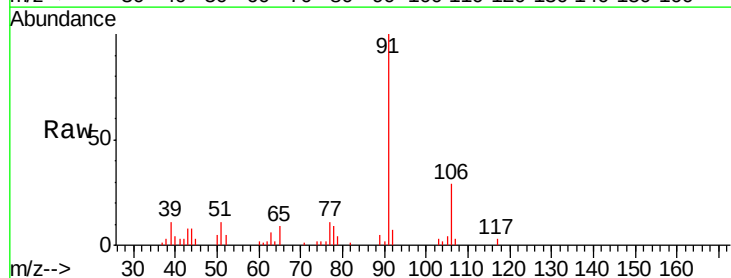
Instrument :
MSVOA_N
ClientSampled :
30451-52

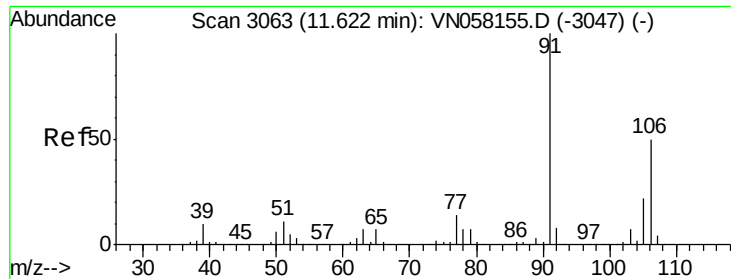
Tgt Ion: 117 Resp: 595417
Ion Ratio Lower Upper
117 100
82 58.5 46.9 70.3
119 31.1 25.3 37.9



#67
Ethyl Benzene
Concen: 1.035 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN058389.D
Acq: 26 Sep 2019 16:26

Tgt Ion: 91 Resp: 18581
Ion Ratio Lower Upper
91 100
106 29.3 24.0 36.0

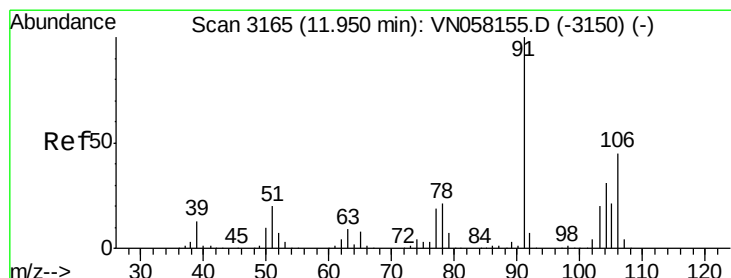
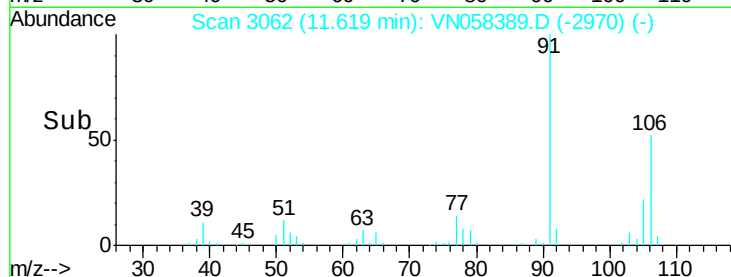
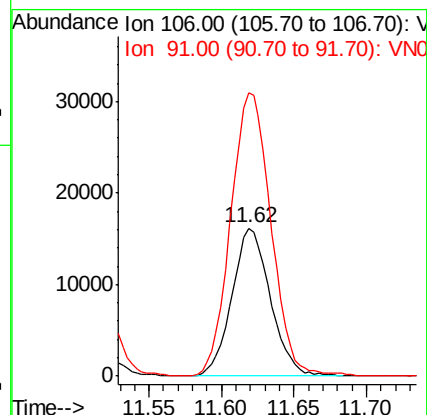
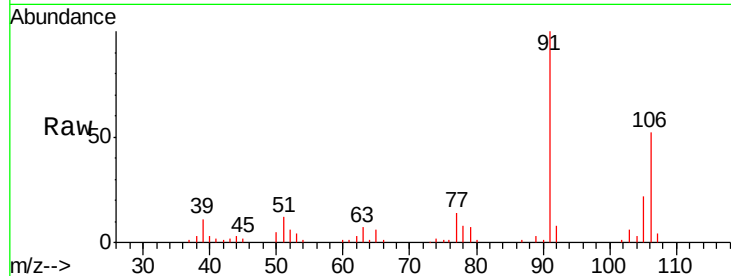




#68
m/p-Xylenes
Concen: 4.393 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN058389.D
Acq: 26 Sep 2019 16:26

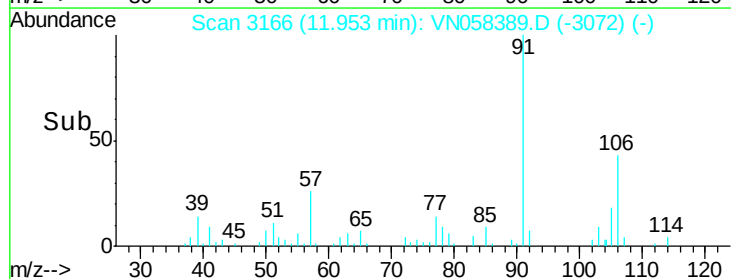
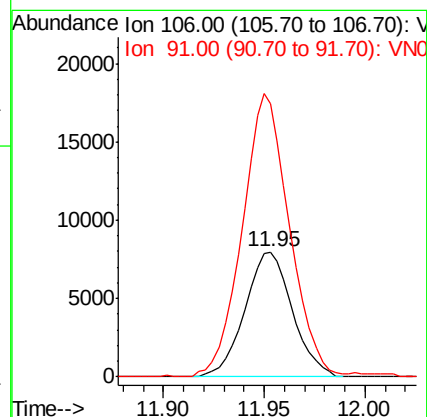
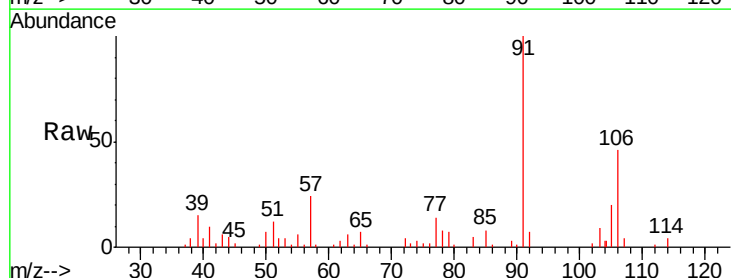
Instrument :
MSVOA_N
ClientSampleId :
30451-52

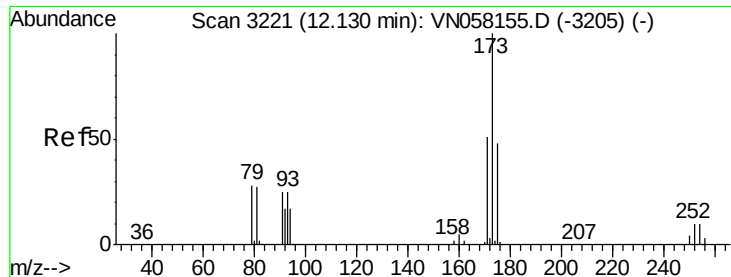
Tgt Ion:106 Resp: 29688
Ion Ratio Lower Upper
106 100
91 200.7 163.6 245.4



#69
o-Xylene
Concen: 1.975 ug/l
RT: 11.95 min Scan# 3166
Delta R.T. 0.00 min
Lab File: VN058389.D
Acq: 26 Sep 2019 16:26

Tgt Ion:106 Resp: 13123
Ion Ratio Lower Upper
106 100
91 224.7 111.8 335.3





#71

Bromoform

Concen: 3.614 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.26 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Instrument :

MSVOA_N

ClientSampled :

30451-52

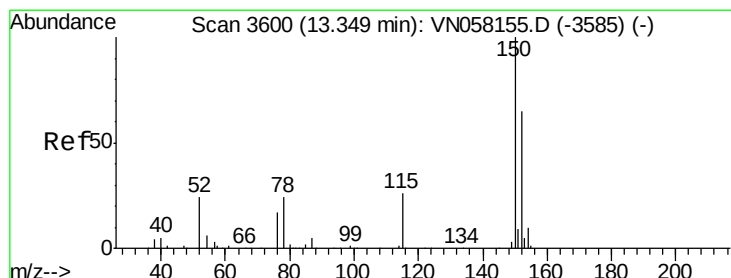
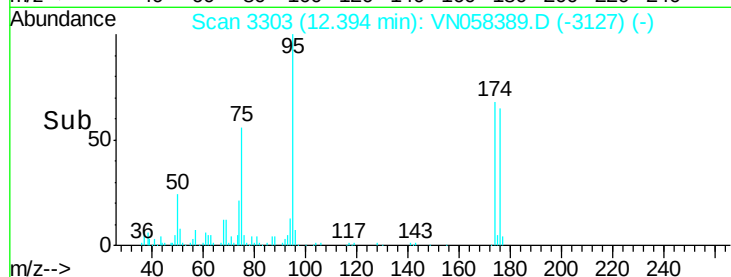
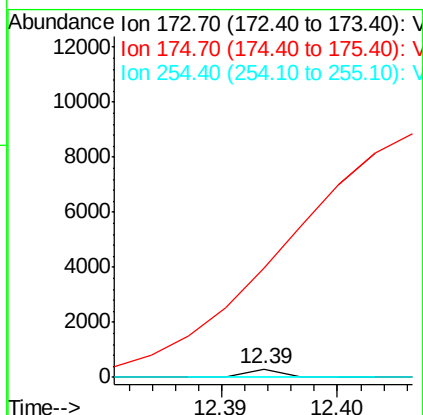
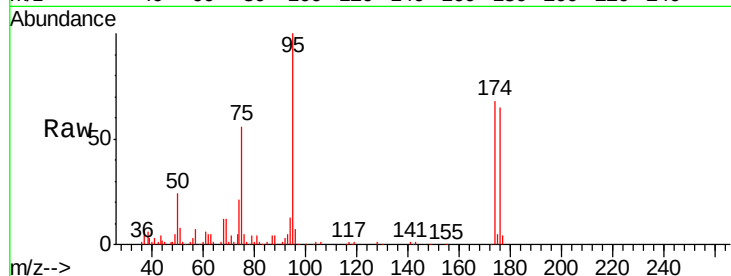
Tgt Ion:173 Resp: 58

Ion Ratio Lower Upper

173 100

175 20889.7 24.2 72.6#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

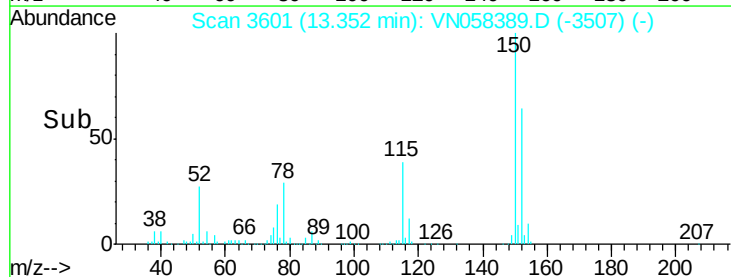
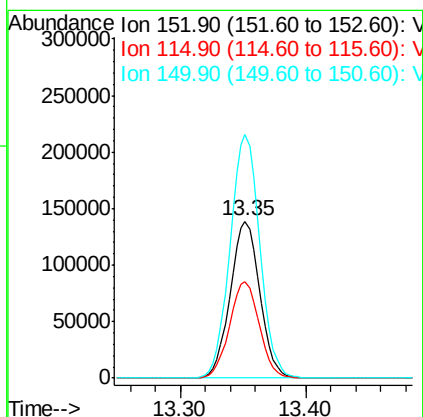
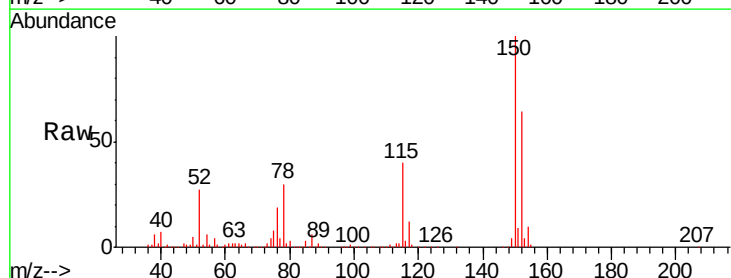
Tgt Ion:152 Resp: 227215

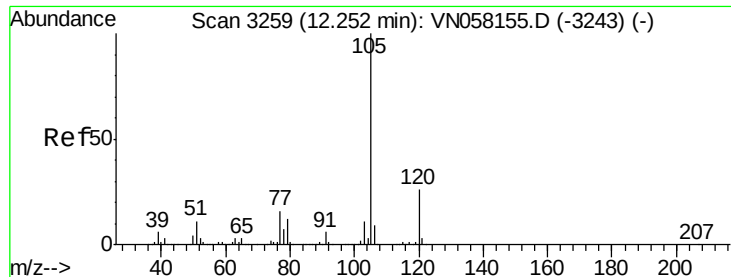
Ion Ratio Lower Upper

152 100

115 62.2 30.1 90.3

150 155.8 0.0 346.4





#73

Isopropylbenzene

Concen: 0.226 ug/l

RT: 12.26 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

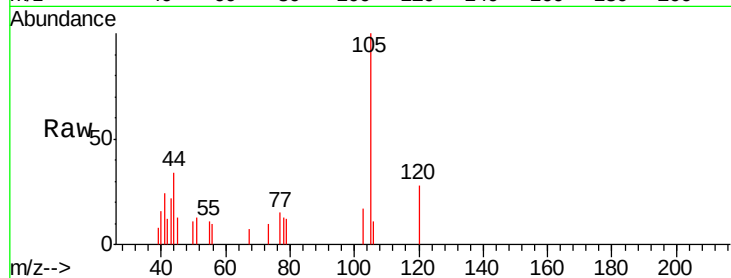
30451-52

Tgt Ion: 105 Resp: 3211

Ion Ratio Lower Upper

105 100

120 27.9 12.8 38.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

2500

2000

1500

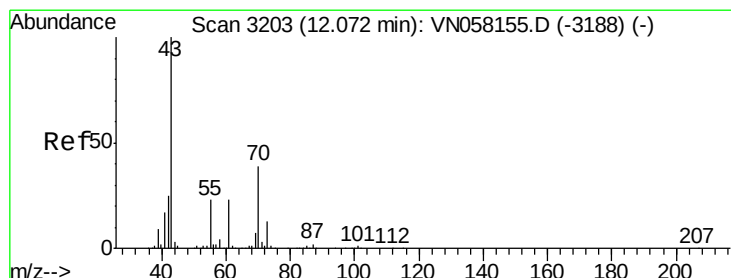
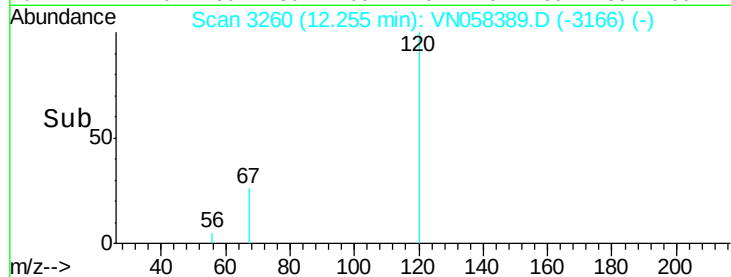
1000

500

0

Time--> 12.20 12.25 12.30

12.26



#74

N-ethyl acetate

Concen: 1.695 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.07 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Tgt Ion: 43 Resp: 10086

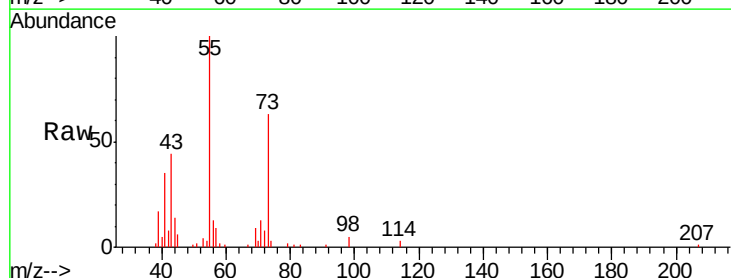
Ion Ratio Lower Upper

43 100

70 5.6 31.0 46.6#

55 233.5 18.5 27.7#

61 0.0 18.2 27.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

20000

15000

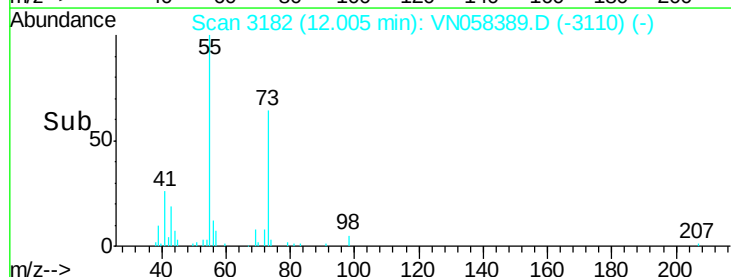
10000

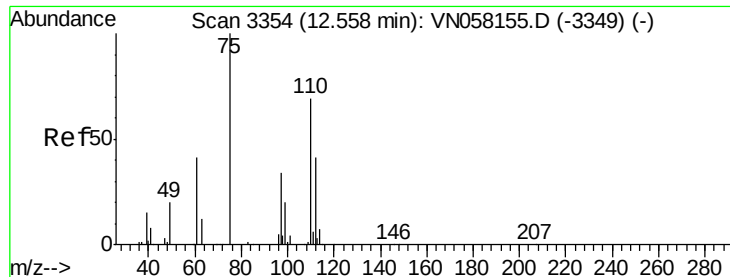
5000

0

Time--> 11.95 12.00

12.00





#76

1,2,3-Trichloropropane

Concen: 36.174 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

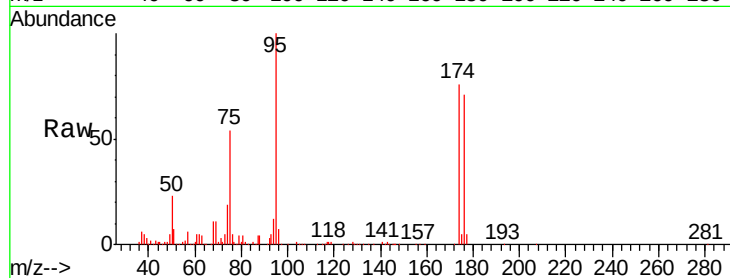
30451-52

Tgt Ion: 75 Resp: 147098

Ion Ratio Lower Upper

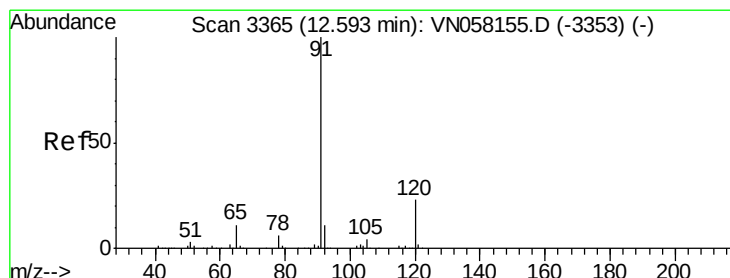
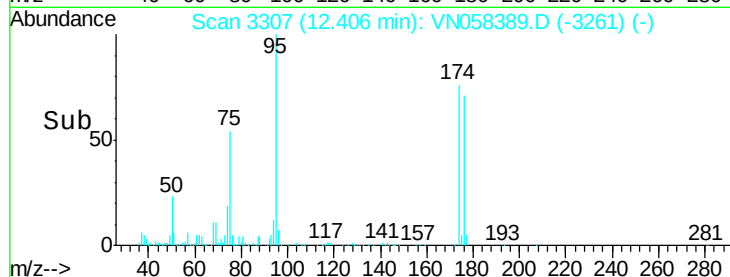
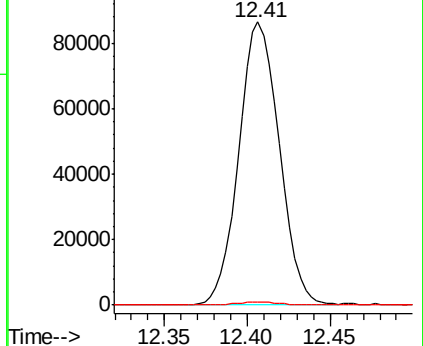
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#78

n-propylbenzene

Concen: 0.374 ug/l

RT: 12.60 min Scan# 3367

Delta R.T. 0.01 min

Lab File: VN058389.D

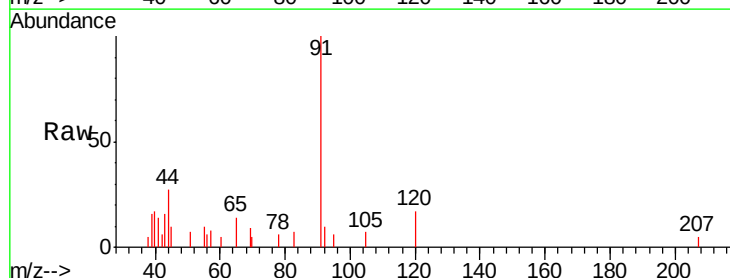
Acq: 26 Sep 2019 16:26

Tgt Ion: 91 Resp: 6048

Ion Ratio Lower Upper

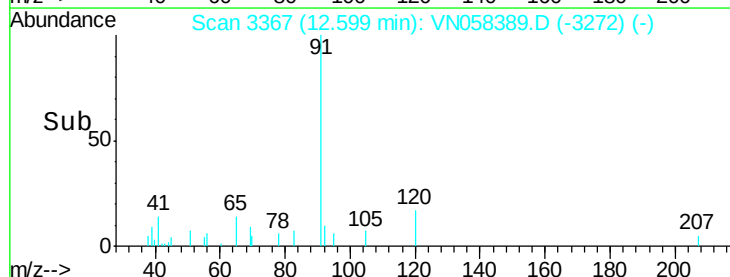
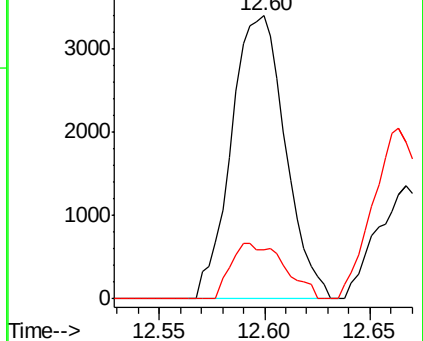
91 100

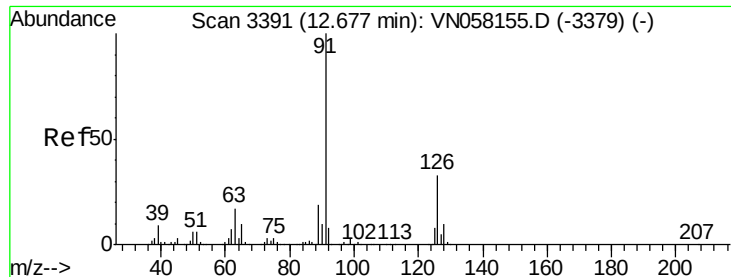
120 19.4 11.1 33.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 0.219 ug/l

RT: 12.67 min Scan# 3388

Delta R.T. -0.01 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Instrument :

MSVOA_N

ClientSampled :

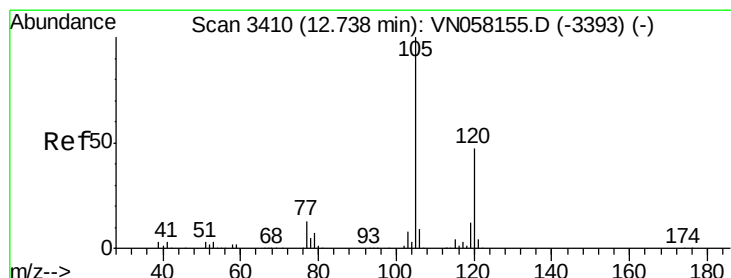
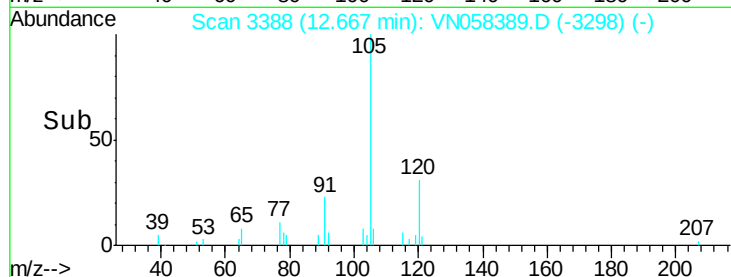
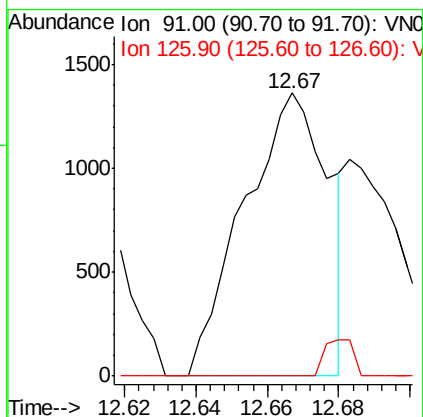
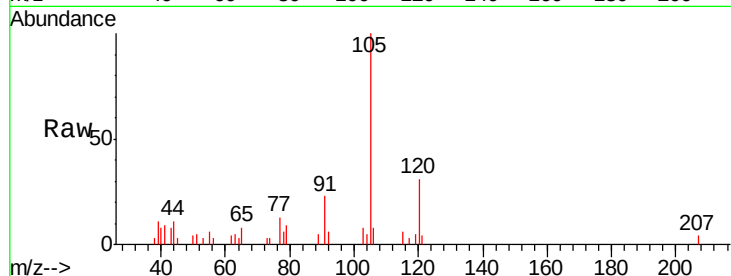
30451-52

Tgt Ion: 91 Resp: 2216

Ion Ratio Lower Upper

91 100

126 4.4 16.4 49.1#



#80

1,3,5-Trimethylbenzene

Concen: 0.754 ug/l

RT: 12.74 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN058389.D

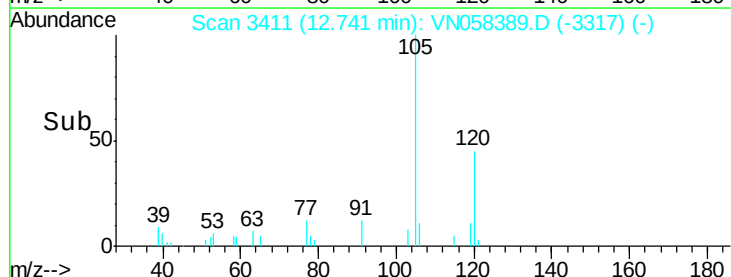
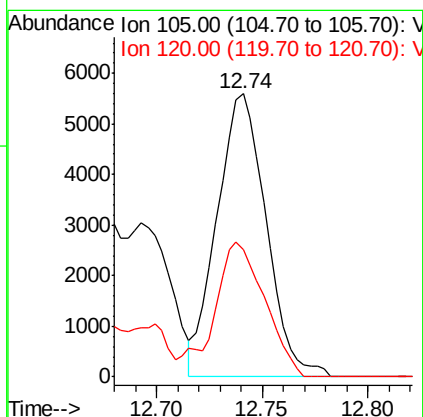
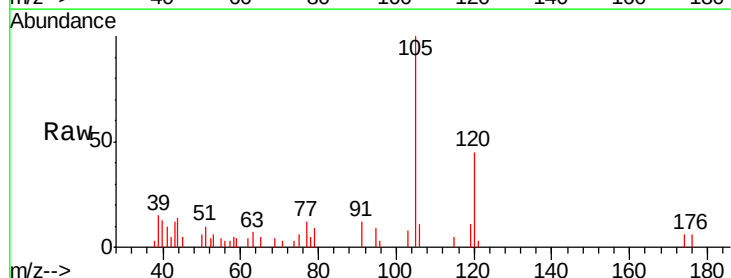
Acq: 26 Sep 2019 16:26

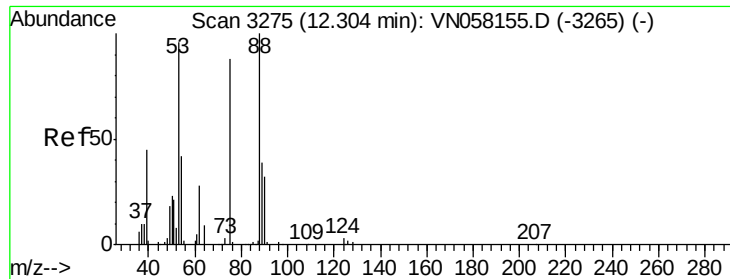
Tgt Ion: 105 Resp: 9070

Ion Ratio Lower Upper

105 100

120 48.8 23.4 70.0





#81

trans-1,4-Dichloro-2-butene

Concen: 100.997 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

30451-52

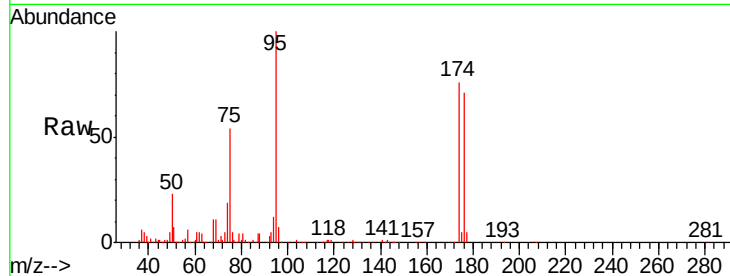
Tgt Ion: 75 Resp: 147098

Ion Ratio Lower Upper

75 100

53 0.3 90.1 135.1#

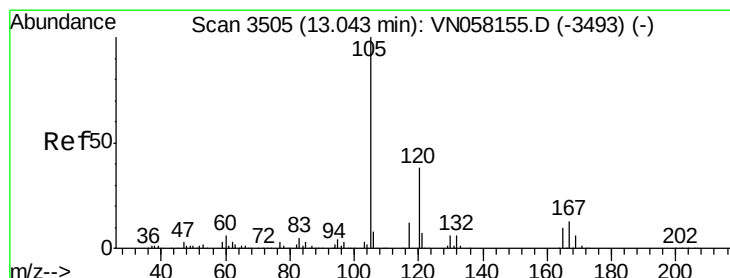
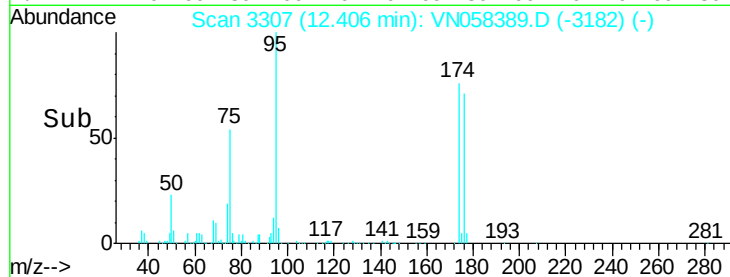
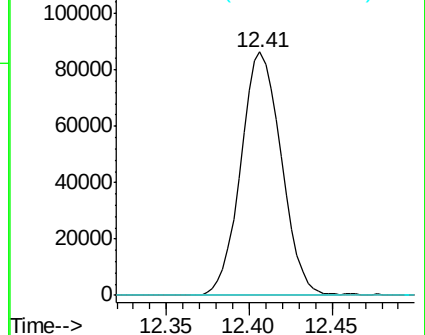
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN058389.D (-3307) (-)

Ion 53.00 (52.70 to 53.70): VN058389.D (-3307) (-)

Ion 88.90 (88.60 to 89.60): VN058389.D (-3307) (-)



#84

1,2,4-Trimethylbenzene

Concen: 1.919 ug/l

RT: 13.05 min Scan# 3506

Delta R.T. 0.00 min

Lab File: VN058389.D

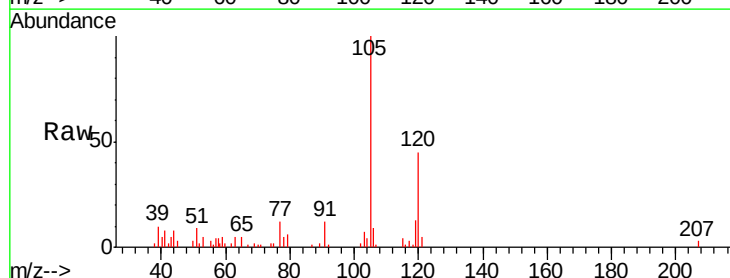
Acq: 26 Sep 2019 16:26

Tgt Ion: 105 Resp: 22962

Ion Ratio Lower Upper

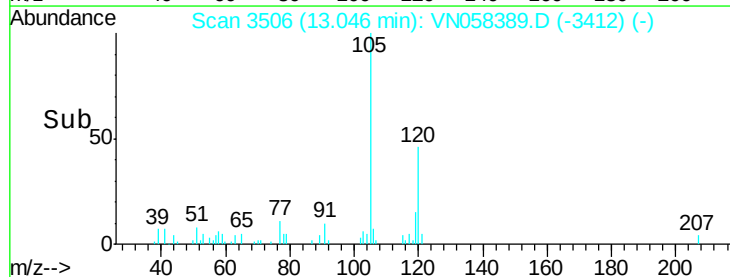
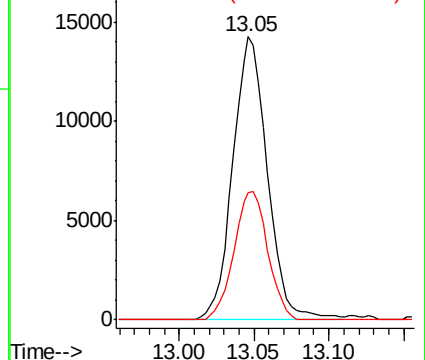
105 100

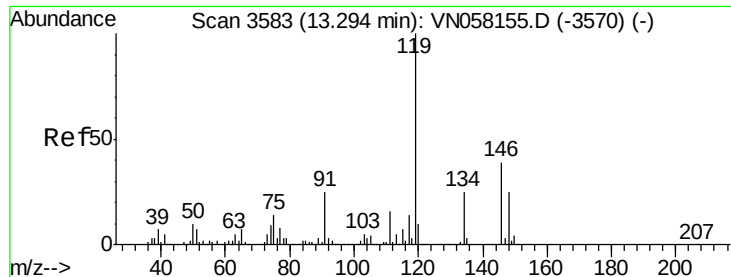
120 44.0 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): VN058389.D (-3506) (-)

Ion 120.00 (119.70 to 120.70): VN058389.D (-3506) (-)

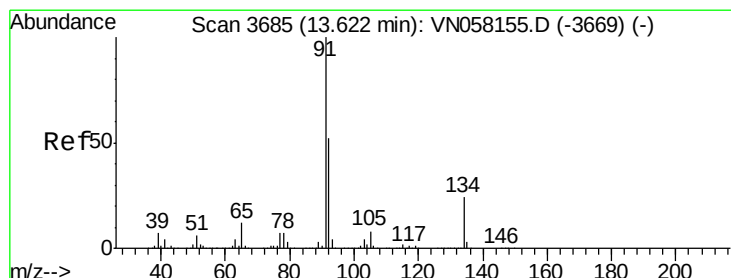
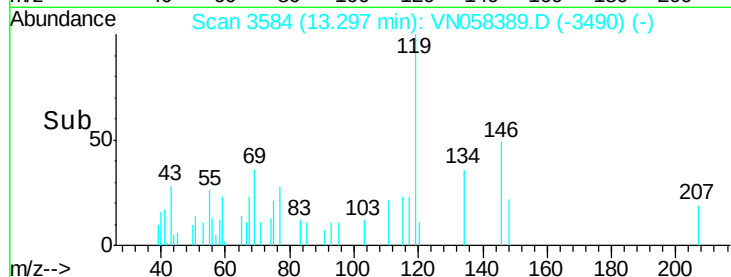
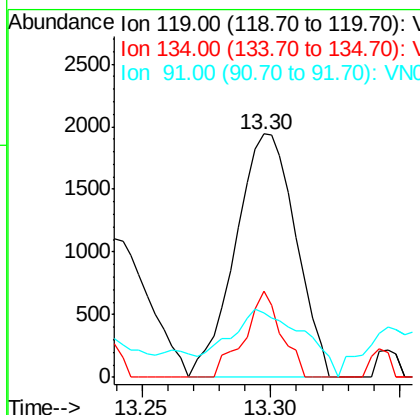
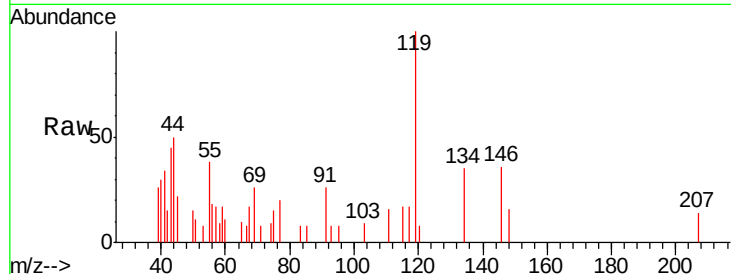




#86
 p-Isopropyltoluene
 Concen: 0.254 ug/l
 RT: 13.30 min Scan# 3584
 Delta R.T. 0.00 min
 Lab File: VN058389.D
 Acq: 26 Sep 2019 16:26

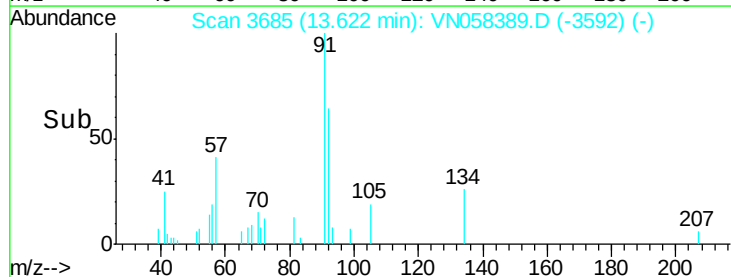
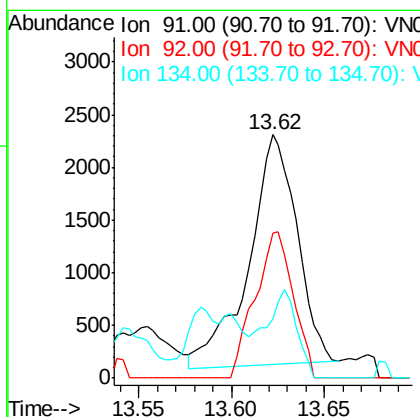
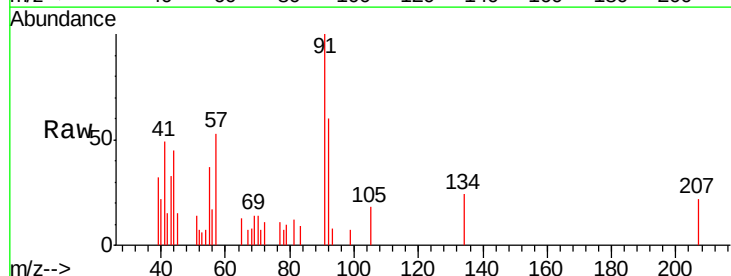
Instrument :
 MSVOA_N
 ClientSampled :
 30451-52

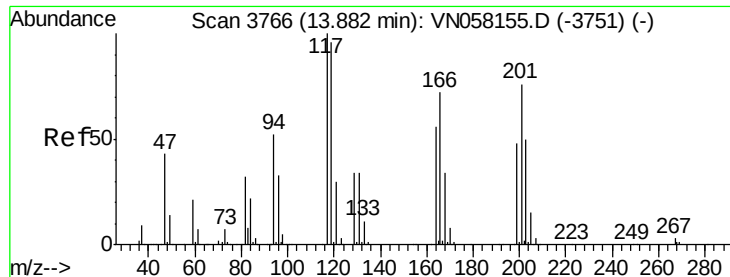
Tgt Ion: 119 Resp: 3168
 Ion Ratio Lower Upper
 119 100
 134 21.7 12.7 38.0
 91 34.9 12.3 36.8



#89
 n-Butylbenzene
 Concen: 0.334 ug/l
 RT: 13.62 min Scan# 3685
 Delta R.T. 0.00 min
 Lab File: VN058389.D
 Acq: 26 Sep 2019 16:26

Tgt Ion: 91 Resp: 3947
 Ion Ratio Lower Upper
 91 100
 92 50.1 25.7 77.0
 134 20.9 11.8 35.4





#90

Hexachloroethane

Concen: 2.954 ug/l

RT: 13.90 min Scan# 3772

Delta R.T. 0.02 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Instrument :

MSVOA_N

ClientSampled :

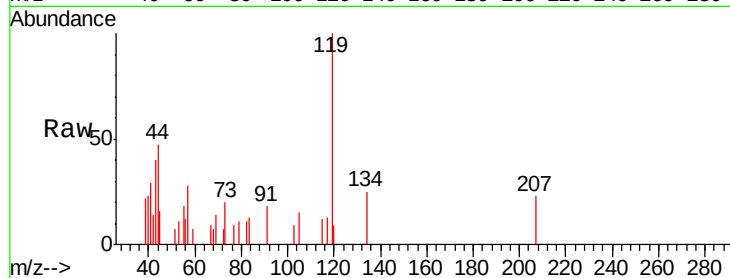
30451-52

Tgt Ion:117 Resp: 304

Ion Ratio Lower Upper

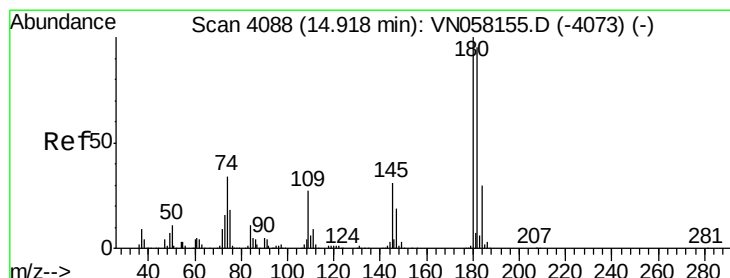
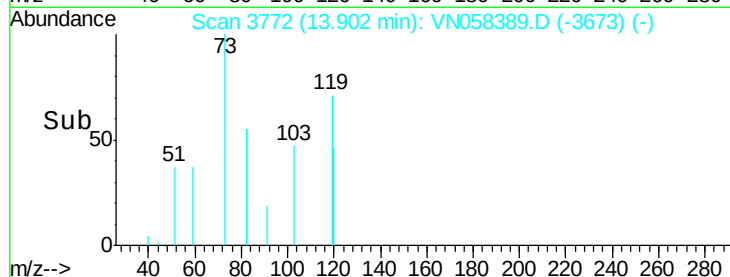
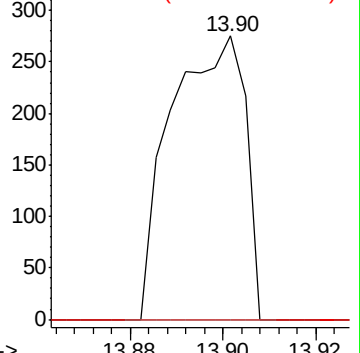
117 100

201 0.0 37.5 112.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#93

1,2,4-Trichlorobenzene

Concen: 0.711 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

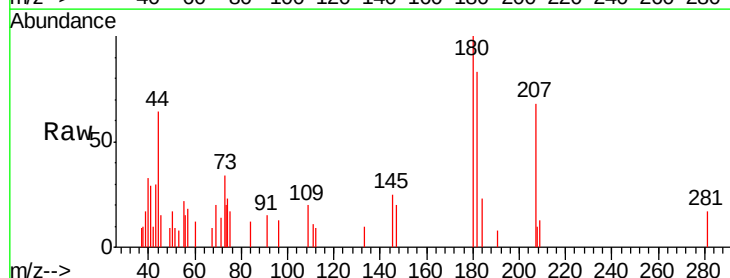
Tgt Ion:180 Resp: 2976

Ion Ratio Lower Upper

180 100

182 91.8 47.8 143.3

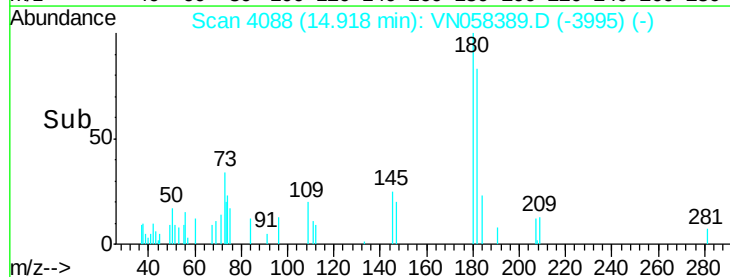
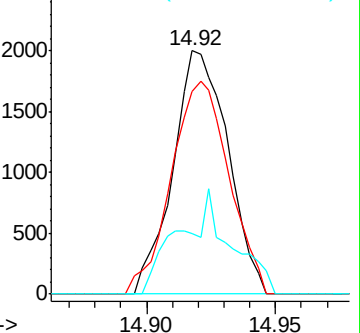
145 21.0 15.4 46.4

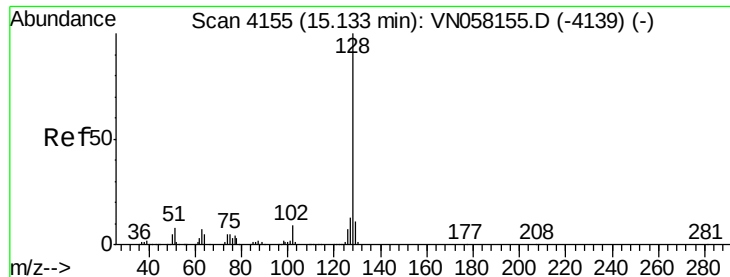


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 5.379 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

Instrument :

MSVOA_N

ClientSampleId :

30451-52

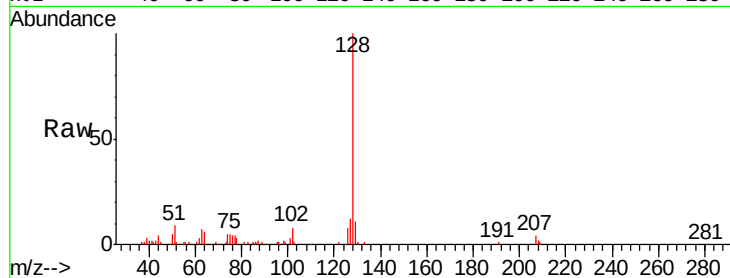
Tgt Ion:128 Resp: 58374

Ion Ratio Lower Upper

128 100

127 13.3 10.2 15.2

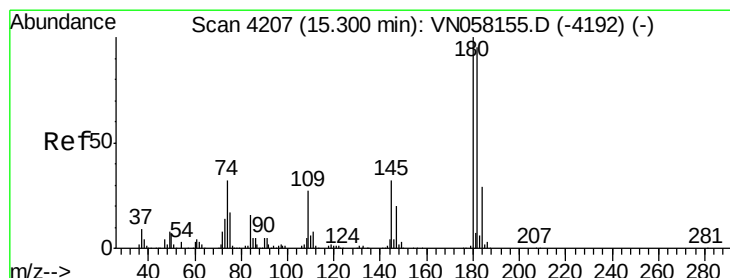
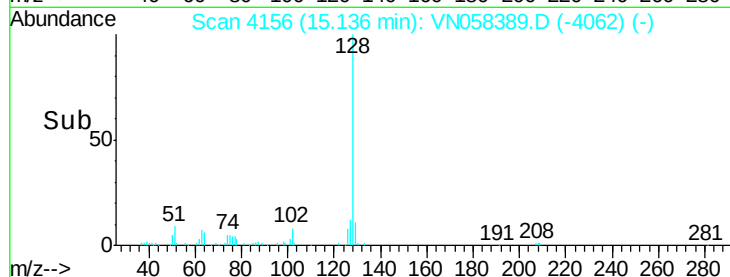
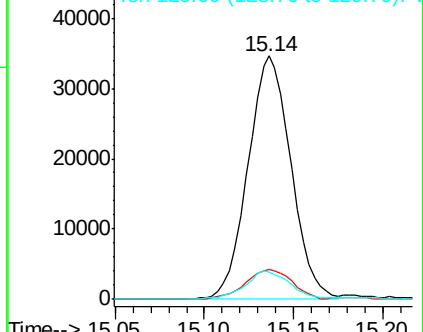
129 12.1 8.6 12.8



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



#96

1,2,3-Trichlorobenzene

Concen: 0.960 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN058389.D

Acq: 26 Sep 2019 16:26

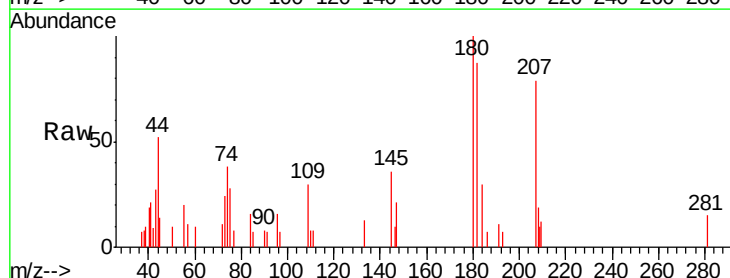
Tgt Ion:180 Resp: 3801

Ion Ratio Lower Upper

180 100

182 94.8 47.4 142.2

145 38.4 16.1 48.2



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

