

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081319\
 Data File : VN057259.D
 Acq On : 13 Aug 2019 20:37
 Operator : JC/SP
 Sample : K4333-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK

Quant Time: Aug 14 06:33:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081319W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 14 06:25:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1499782	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	2047145	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1718026	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	547538	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	668430	44.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.36%	
35) Dibromofluoromethane	7.58	113	615690	47.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.20%	
50) Toluene-d8	10.09	98	2387561	50.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.16%	
62) 4-Bromofluorobenzene	12.40	95	706653	43.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.44%	

Target Compounds						Qvalue
4) Vinyl Chloride	1.99	62	14774	1.061	ug/l #	45
11) Tert butyl alcohol	4.75	59	2520	1.237	ug/l #	90
13) Acrolein	3.60	56	420	0.288	ug/l #	14
16) Acetone	3.80	43	334703	64.527	ug/l	98
18) Methyl Acetate	4.32	43	23403	0.600	ug/l	92
25) 2-Butanone	6.83	43	62283	8.446	ug/l	94
31) Cyclohexane	7.66	56	22242	1.038	ug/l #	5
36) 1,1-Dichloropropene	7.66	75	90177	5.038	ug/l #	49
37) Ethyl Acetate	6.83	43	62283	4.330	ug/l #	66
38) Carbon Tetrachloride	7.66	117	123833	6.513	ug/l #	16
41) Methacrylonitrile	7.13	41	13882	2.345	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	10267	0.589	ug/l	95
48) Methyl methacrylate	9.17	41	6796	0.620	ug/l #	35
49) 1,4-Dioxane	9.21	88	227	0.919	ug/l #	27
51) 4-Methyl-2-Pentanone	9.98	43	14769	1.062	ug/l	94
52) Toluene	10.15	92	618258	18.303	ug/l	99
53) t-1,3-Dichloropropene	10.15	75	7367	0.385	ug/l #	1
55) 1,1,2-Trichloroethane	10.53	97	8132	0.616	ug/l #	18
56) Ethyl methacrylate	10.36	69	26144	1.411	ug/l #	74
58) 2-Chloroethyl Vinyl ether	9.69	63	32	20.532	ug/l #	45
59) 2-Hexanone	10.75	43	3305	0.335	ug/l	80
67) Ethyl Benzene	11.51	91	65280	1.088	ug/l	98
68) m/p-Xylenes	11.62	106	91340	4.079	ug/l	99
69) o-Xylene	11.95	106	122200	5.574	ug/l	97
70) Styrene	11.95	104	9322	0.275	ug/l #	1
73) Isopropylbenzene	12.25	105	41870	Below Cal		99
74) N-amyl acetate	12.03	43	10748860	852.043	ug/l #	43
75) 1,1,2,2-Tetrachloroethane	12.40	83	181	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	320454	32.196	ug/l #	100
77) Bromobenzene	12.53	156	244	Below Cal	#	1
78) n-propylbenzene	12.59	91	115870	1.438	ug/l	98
79) 2-Chlorotoluene	12.65	91	45172	Below Cal	#	44
80) 1,3,5-Trimethylbenzene	12.73	105	212276	3.938	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	320454	78.612	ug/l #	16

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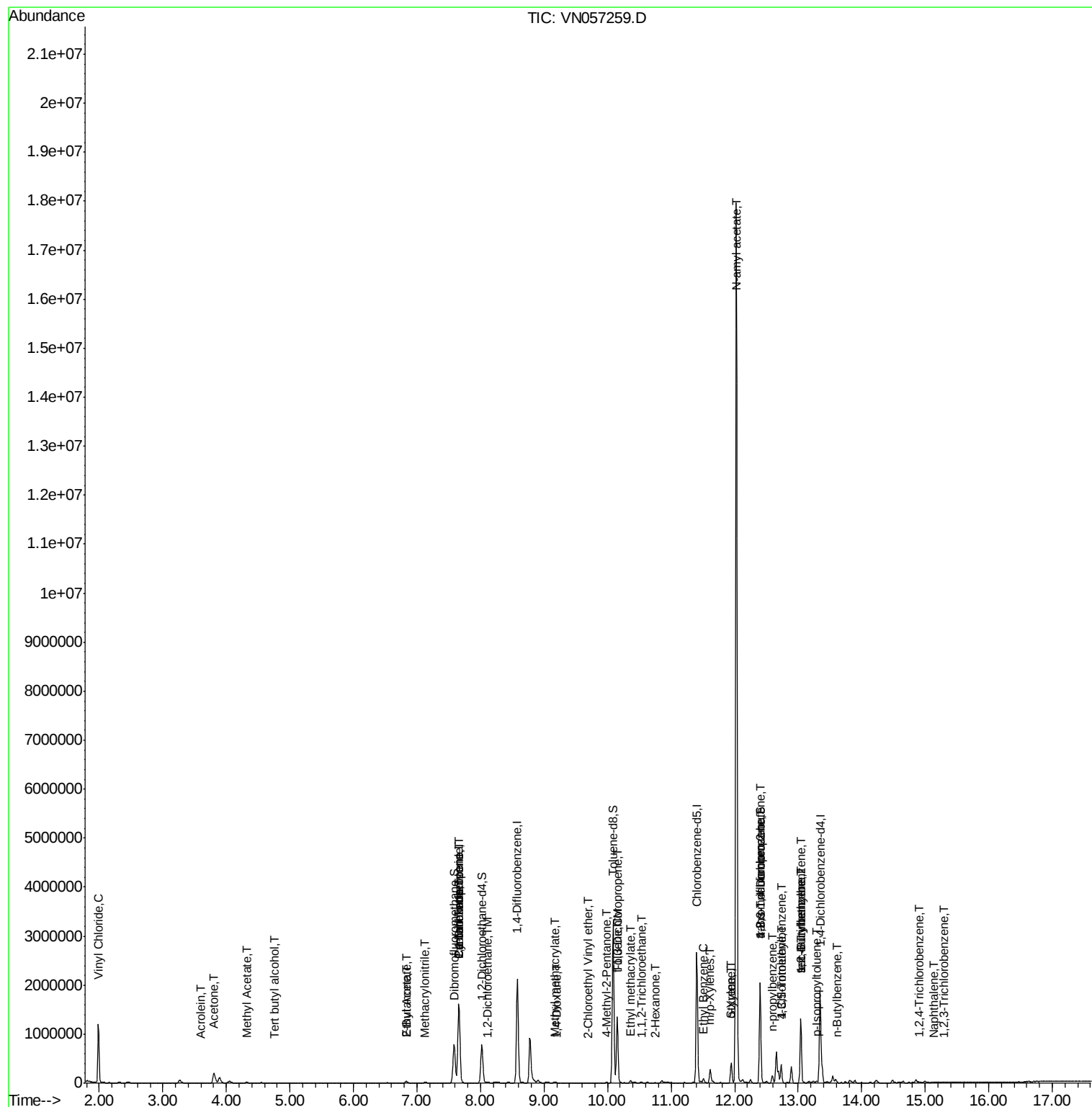
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) 4-Chlorotoluene	12.73	91	20025	0.671	ug/l #	39
83) tert-Butylbenzene	13.04	119	98276	0.282	ug/l #	69
84) 1,2,4-Trimethylbenzene	13.04	105	772129	20.026	ug/l	100
85) sec-Butylbenzene	13.04	105	772129	18.216	ug/l #	55
86) p-Isopropyltoluene	13.29	119	24955	0.620	ug/l	95
89) n-Butylbenzene	13.62	91	7281	0.258	ug/l #	75
90) Hexachloroethane	13.90	117	2723	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	4964	3.890	ug/l	86
94) Hexachlorobutadiene	15.00	225	231	Below Cal	#	12
95) Naphthalene	15.13	128	5919	0.610	ug/l #	87
96) 1,2,3-Trichlorobenzene	15.30	180	1618	4.465	ug/l	85

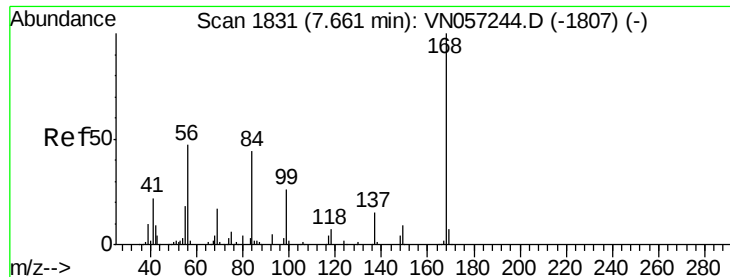
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

Instrument :

MSVOA_N

ClientSampleId :

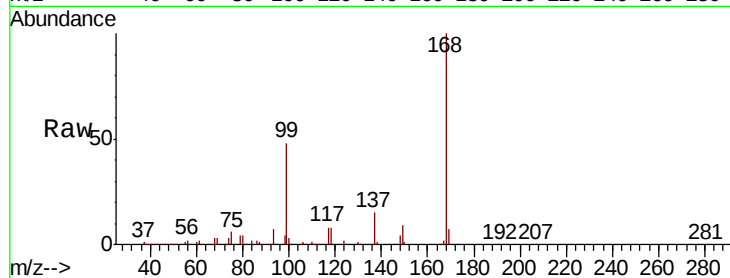
FRAC-TANK

Tgt Ion:168 Resp: 1499782

Ion Ratio Lower Upper

168 100

99 48.4 38.6 58.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

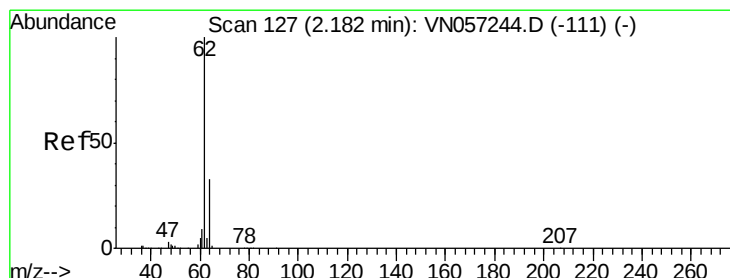
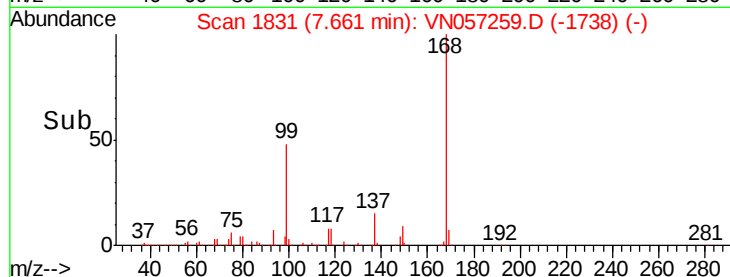
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400000

200000

0

Time-->



#4

Vinyl Chloride

Concen: 1.061 ug/l

RT: 1.99 min Scan# 66

Delta R.T. -0.20 min

Lab File: VN057259.D

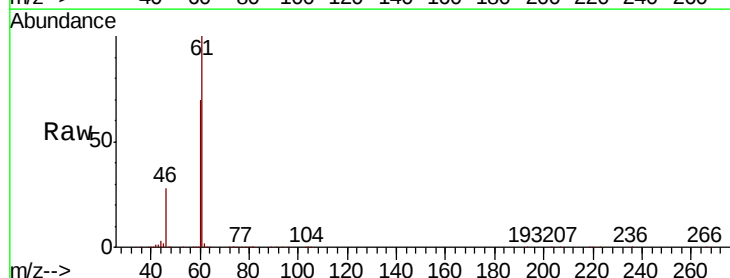
Acq: 13 Aug 2019 20:37

Tgt Ion: 62 Resp: 14774

Ion Ratio Lower Upper

62 100

64 1.9 26.2 39.2#



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

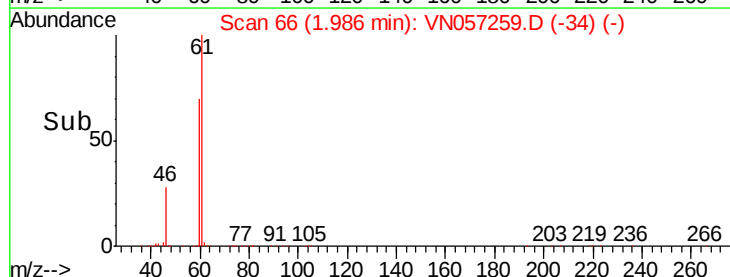
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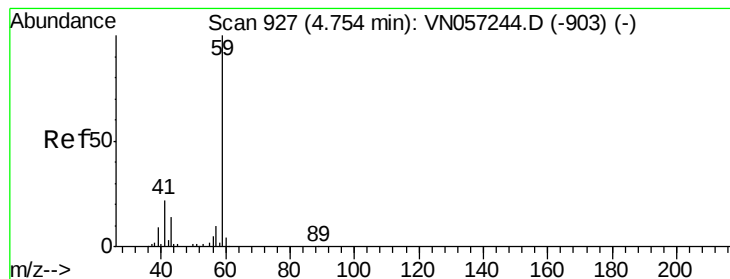
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Time-->



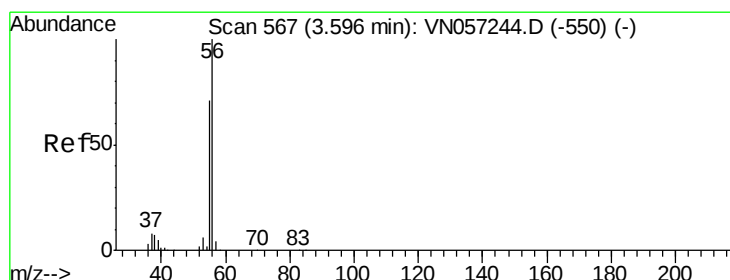
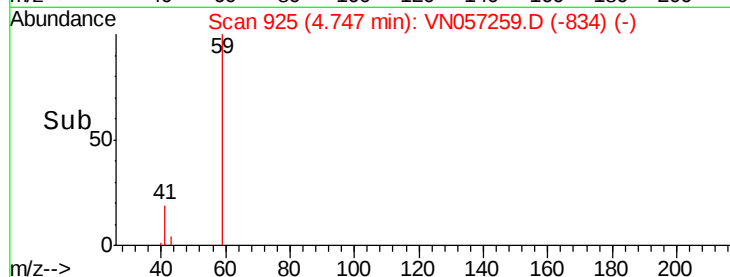
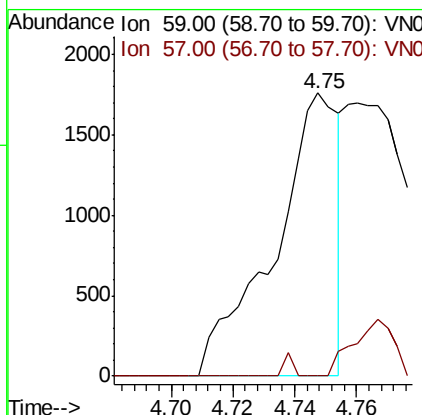
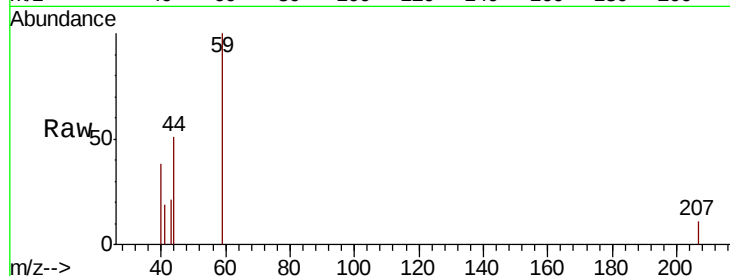


#11

Tert butyl alcohol
 Concen: 1.237 ug/l
 RT: 4.75 min Scan# 925
 Delta R.T. -0.01 min
 Lab File: VN057259.D
 Acq: 13 Aug 2019 20:37

Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK

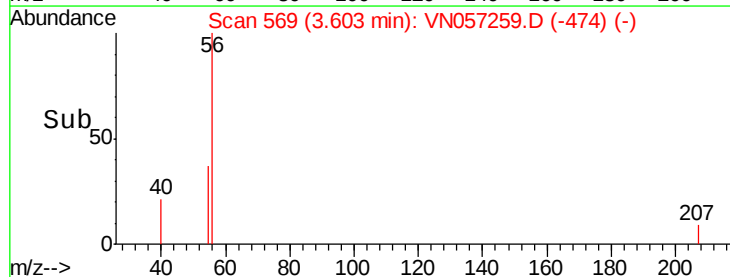
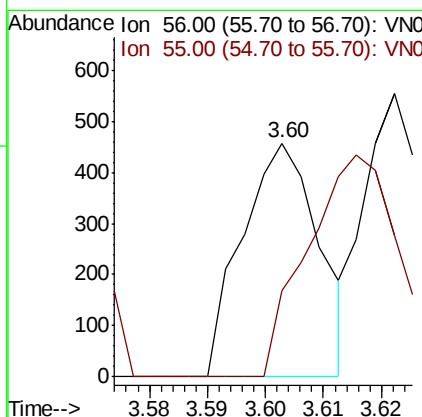
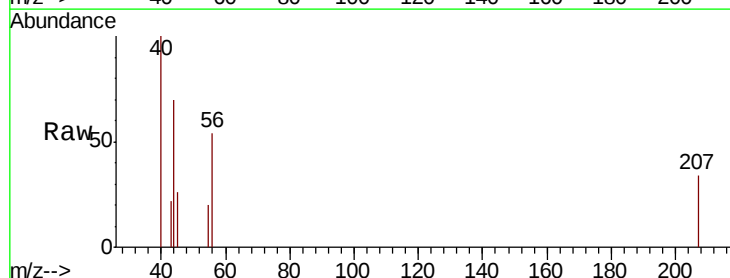
Tgt Ion: 59 Resp: 2520
 Ion Ratio Lower Upper
 59 100
 57 1.2 3.4 5.2#

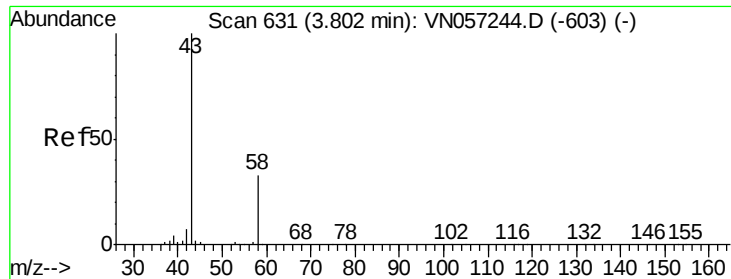


#13

Acrolein
 Concen: 0.288 ug/l
 RT: 3.60 min Scan# 569
 Delta R.T. 0.01 min
 Lab File: VN057259.D
 Acq: 13 Aug 2019 20:37

Tgt Ion: 56 Resp: 420
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.6 84.8#





#16

Acetone

Concen: 64.527 ug/l

RT: 3.80 min Scan# 631

Delta R.T. -0.00 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

Instrument :

MSVOA_N

ClientSampled :

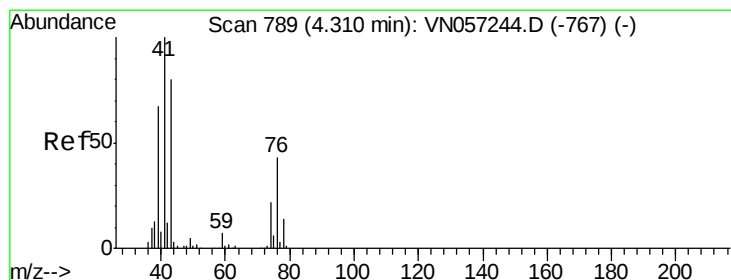
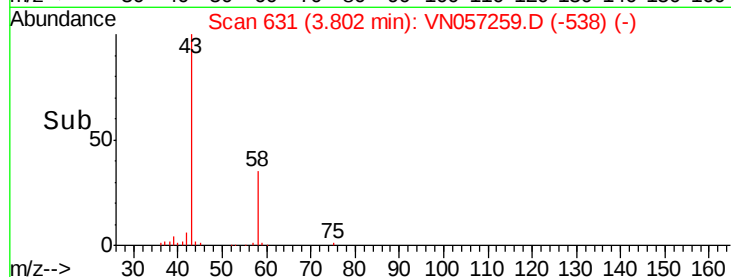
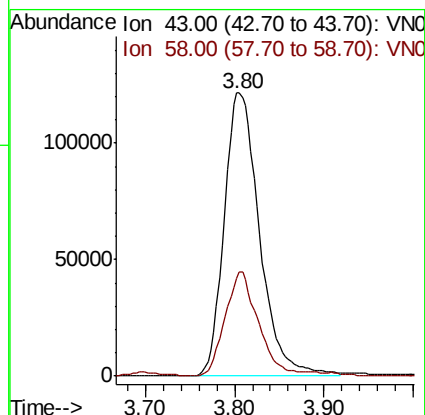
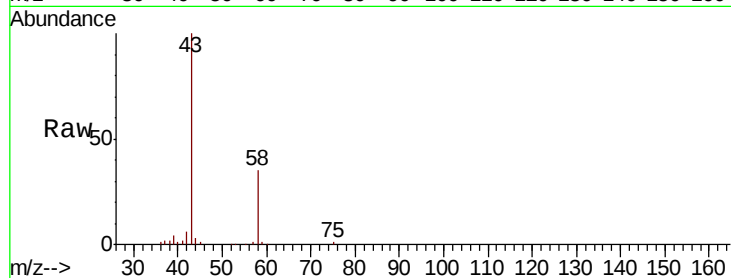
FRAC-TANK

Tgt Ion: 43 Resp: 334703

Ion Ratio Lower Upper

43 100

58 34.3 26.7 40.1



#18

Methyl Acetate

Concen: 0.600 ug/l

RT: 4.32 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN057259.D

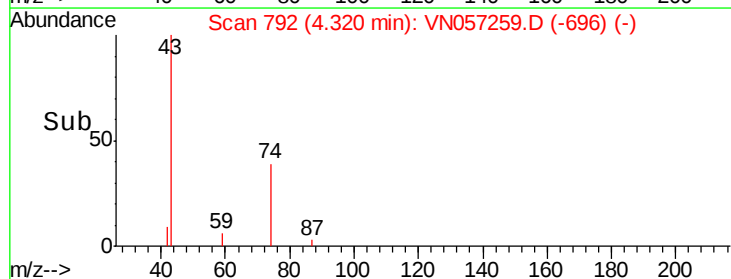
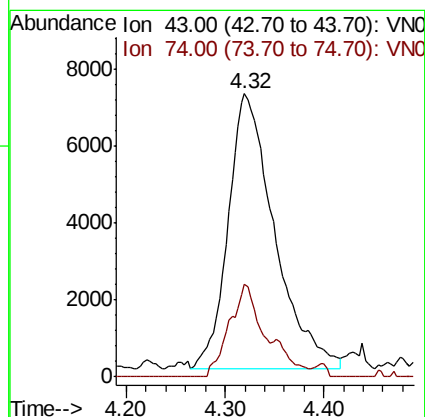
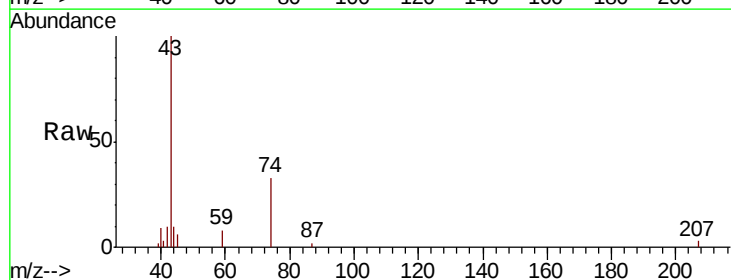
Acq: 13 Aug 2019 20:37

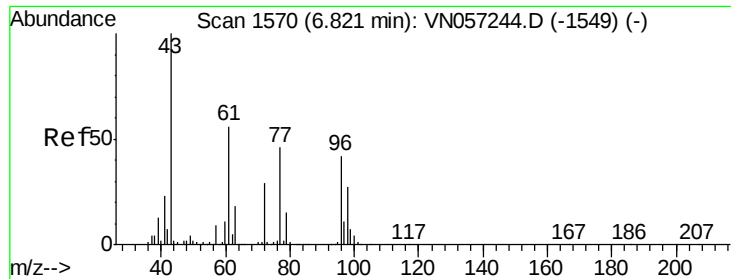
Tgt Ion: 43 Resp: 23403

Ion Ratio Lower Upper

43 100

74 21.7 20.6 31.0

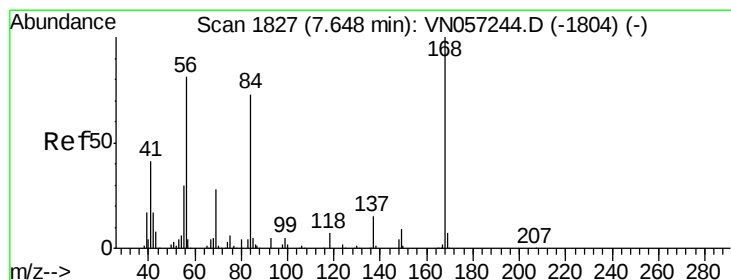
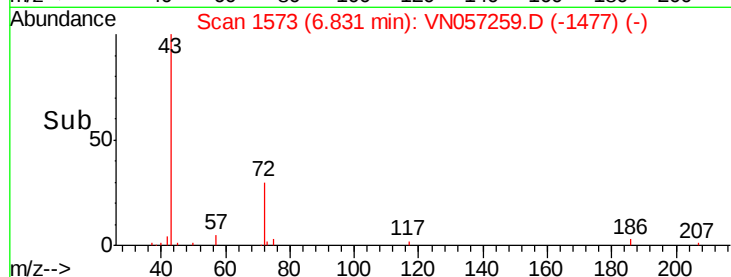
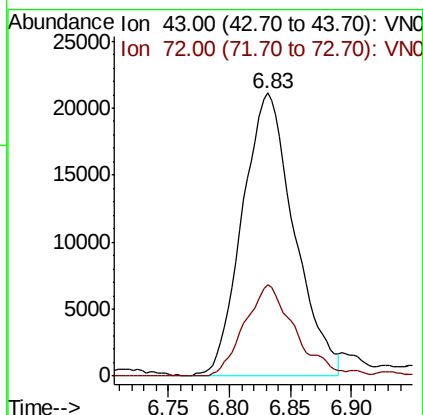
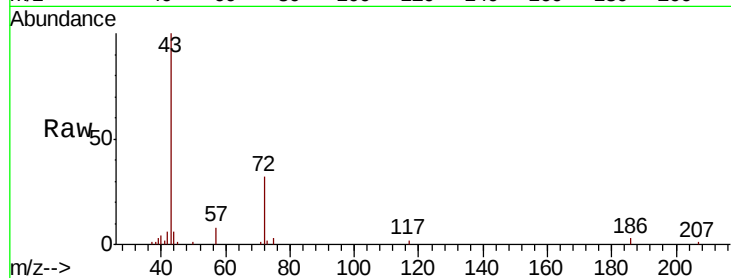




#25
2-Butanone
Concen: 8.446 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN057259.D
Acq: 13 Aug 2019 20:37

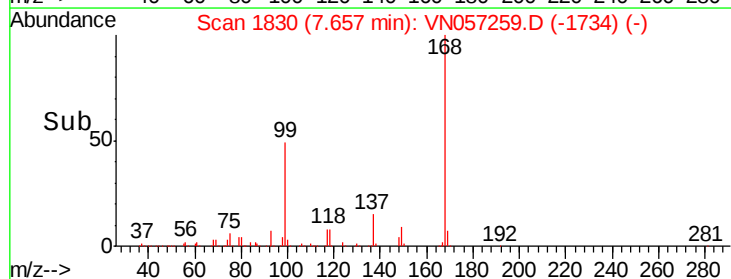
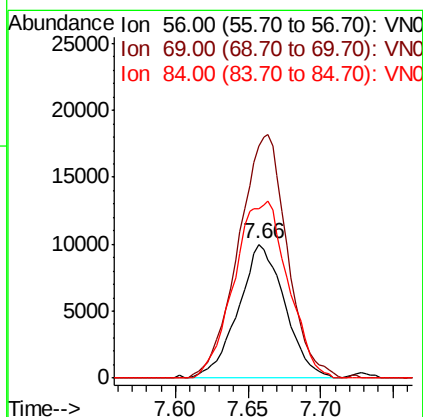
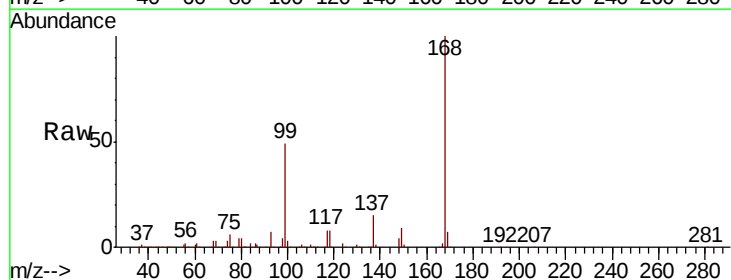
Instrument :
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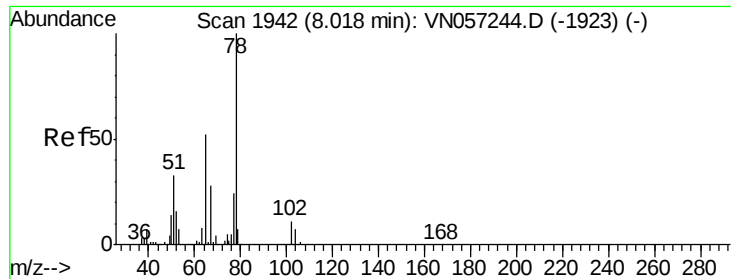
Tgt Ion: 43 Resp: 62283
Ion Ratio Lower Upper
43 100
72 32.3 23.1 34.7



#31
Cyclohexane
Concen: 1.038 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN057259.D
Acq: 13 Aug 2019 20:37

Tgt Ion: 56 Resp: 22242
Ion Ratio Lower Upper
56 100
69 173.6 27.8 41.8#
84 126.6 72.0 108.0#





#33

1,2-Dichloroethane-d4

Concen: 44.181 ug/l

RT: 8.02 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

Instrument :

MSVOA_N

ClientSampleId :

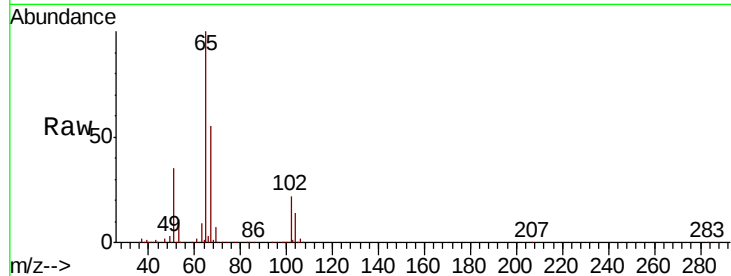
FRAC-TANK

Tgt Ion: 65 Resp: 668430

Ion Ratio Lower Upper

65 100

67 54.4 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VN057244.D (-1923) (-)

Ion 66.90 (66.60 to 67.60): VN057244.D (-1923) (-)

8.02

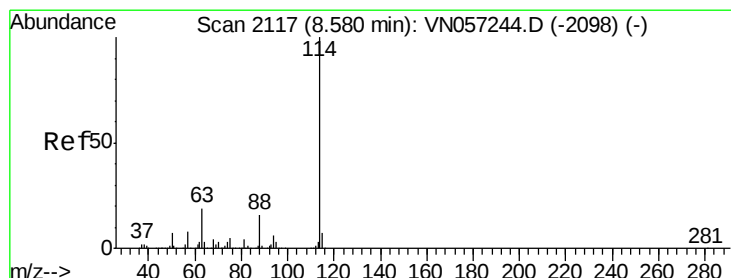
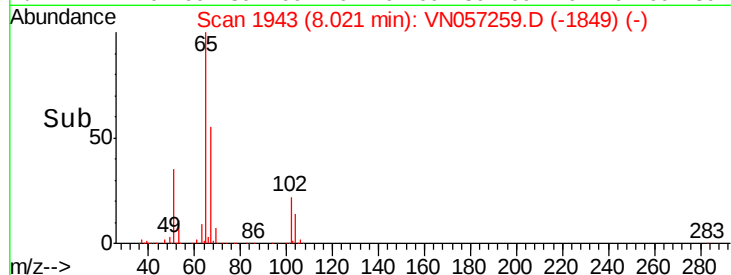
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200000

100000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2117

Delta R.T. -0.00 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

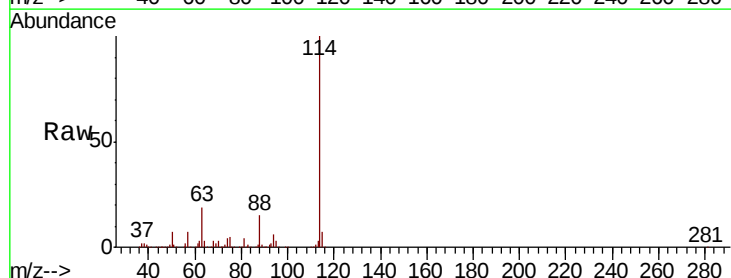
Tgt Ion: 114 Resp: 2047145

Ion Ratio Lower Upper

114 100

63 18.7 0.0 37.0

88 14.9 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): VN057244.D (-2098) (-)

Ion 63.00 (62.70 to 63.70): VN057244.D (-2098) (-)

Ion 87.90 (87.60 to 88.60): VN057244.D (-2098) (-)

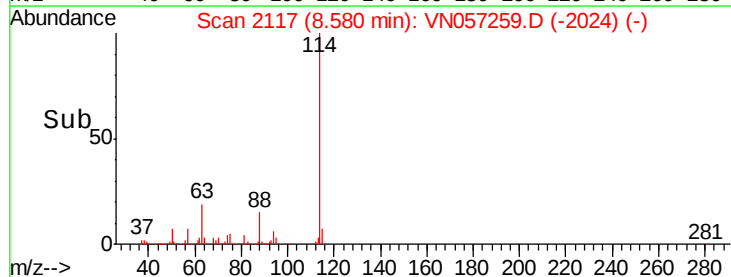
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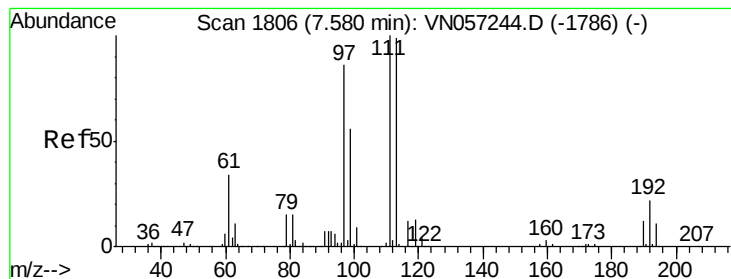
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500000

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Time-->





#35

Dibromofluoromethane

Concen: 47.102 ug/l

RT: 7.58 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK

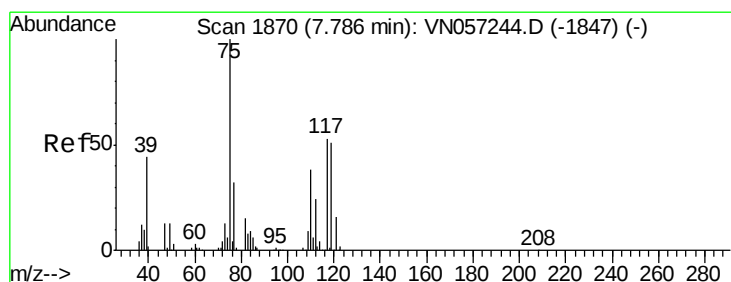
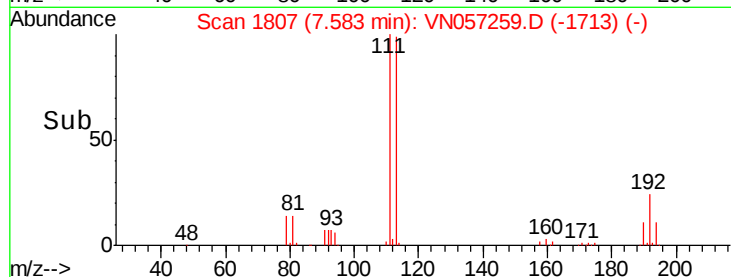
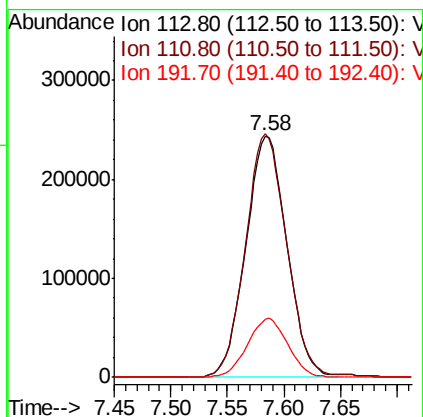
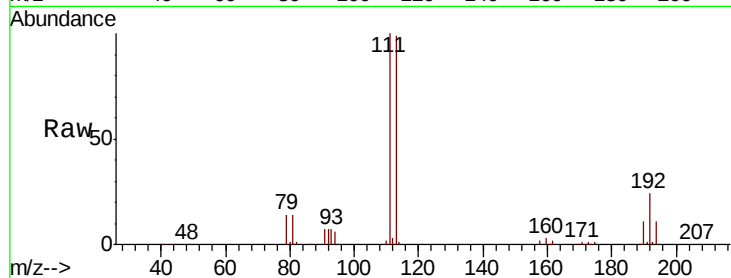
Tgt Ion:113 Resp: 615690

Ion Ratio Lower Upper

113 100

111 101.9 81.4 122.2

192 24.1 18.8 28.2



#36

1,1-Dichloropropene

Concen: 5.038 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

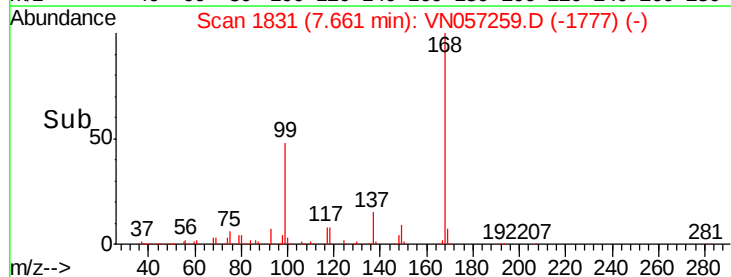
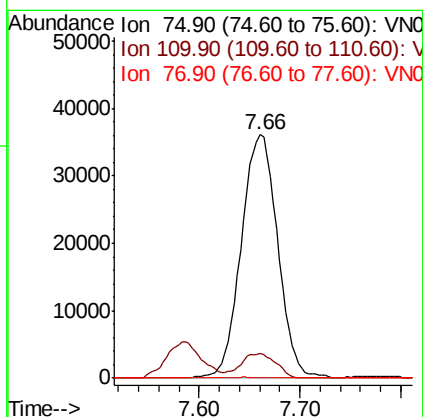
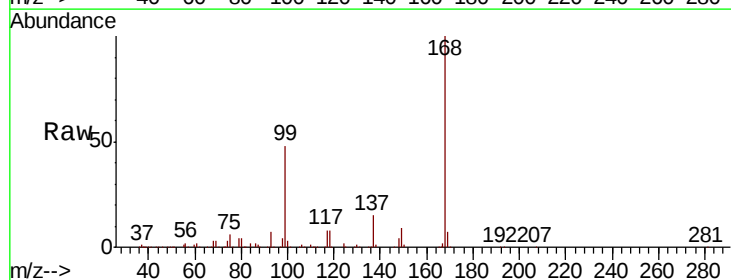
Tgt Ion: 75 Resp: 90177

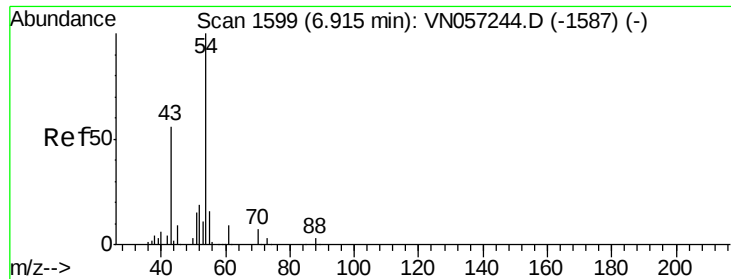
Ion Ratio Lower Upper

75 100

110 9.9 19.1 57.1#

77 0.0 25.2 37.8#

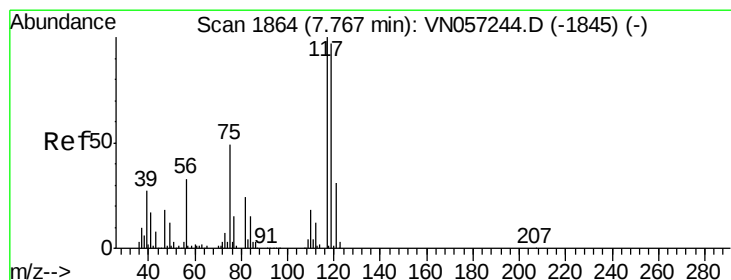
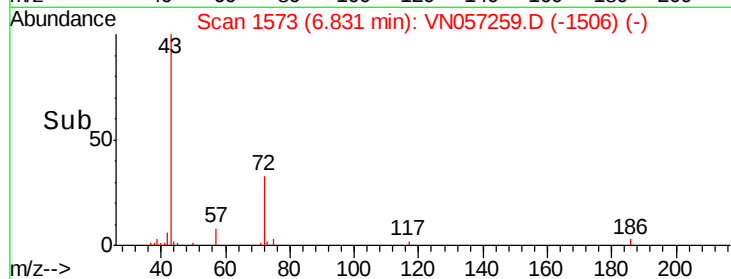
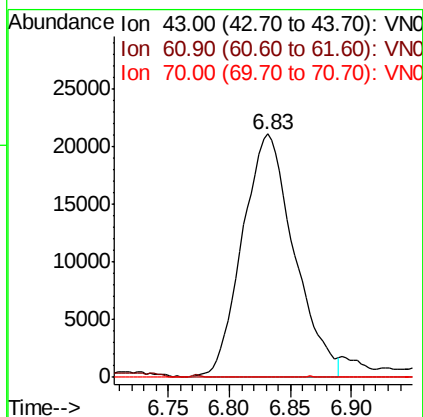
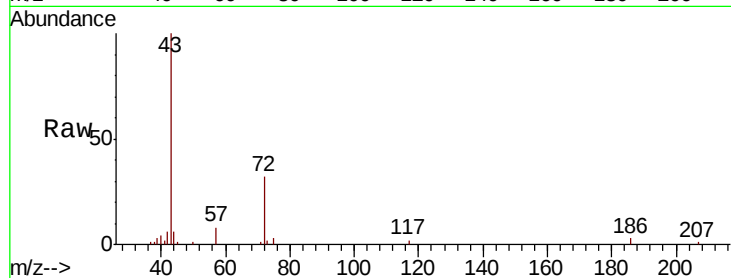




#37
 Ethyl Acetate
 Concen: 4.330 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. -0.08 min
 Lab File: VN057259.D
 Acq: 13 Aug 2019 20:37

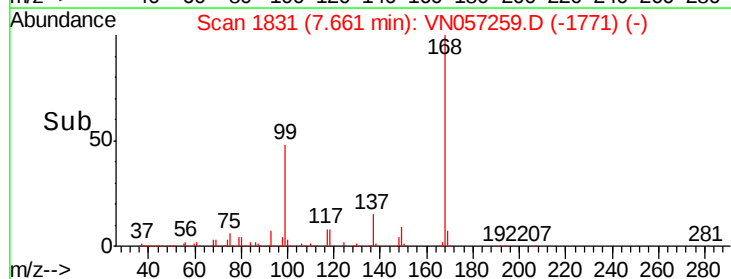
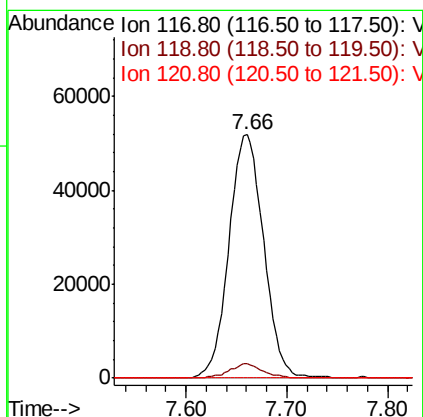
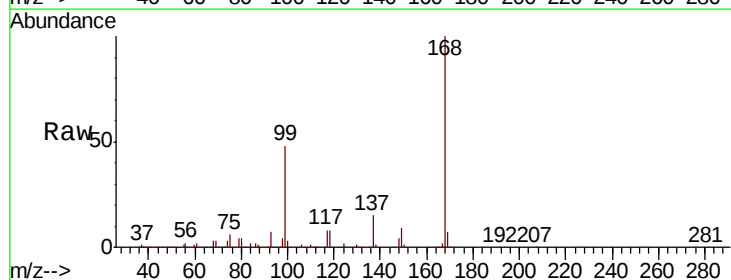
Instrument :
 MSVOA_N
 ClientSampled :
 FRAC-TANK

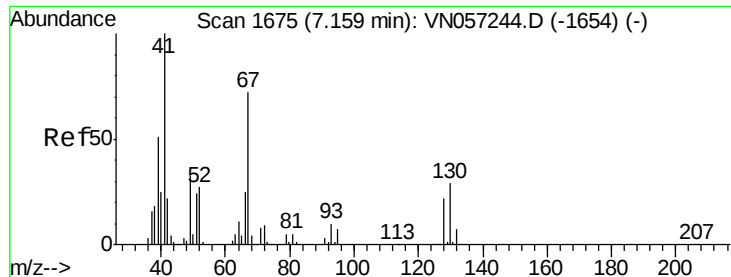
Tgt Ion: 43 Resp: 62283
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.7 19.1#
 70 0.0 9.0 13.4#



#38
 Carbon Tetrachloride
 Concen: 6.513 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN057259.D
 Acq: 13 Aug 2019 20:37

Tgt Ion: 117 Resp: 123833
 Ion Ratio Lower Upper
 117 100
 119 5.8 77.8 116.6#
 121 0.0 24.9 37.3#

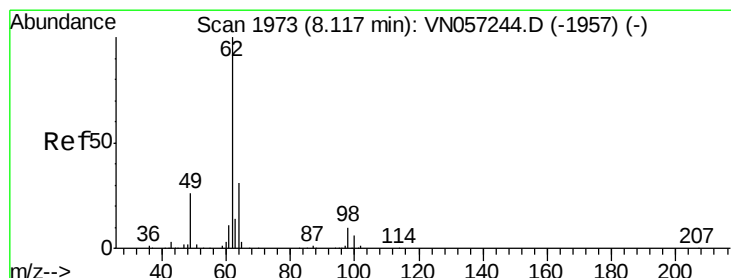
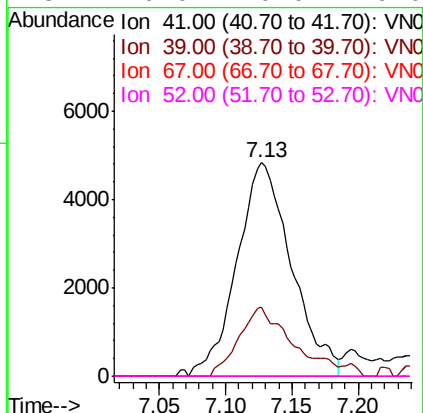
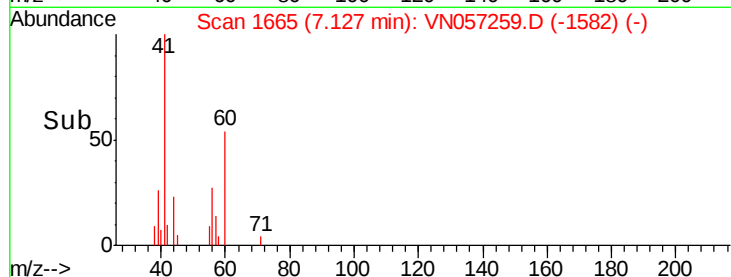
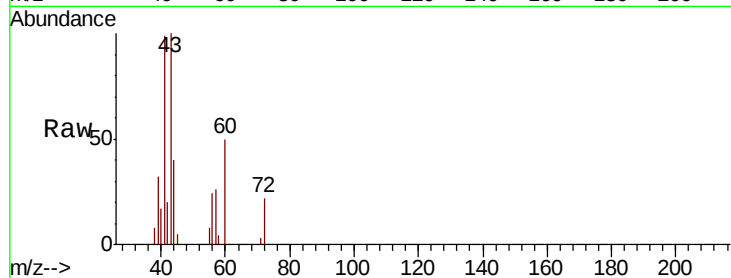




#41
Methacrylonitrile
Concen: 2.345 ug/l
RT: 7.13 min Scan# 1665
Delta R.T. -0.03 min
Lab File: VN057259.D
Acq: 13 Aug 2019 20:37

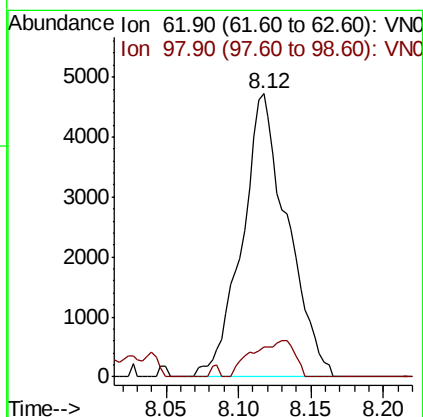
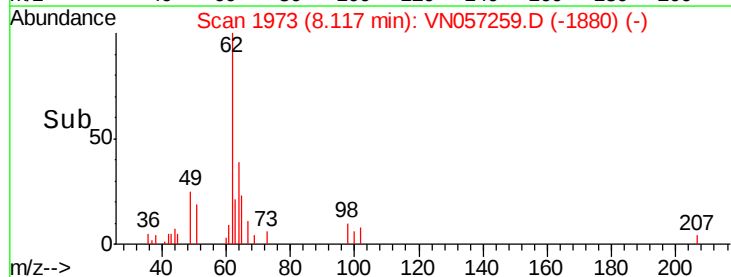
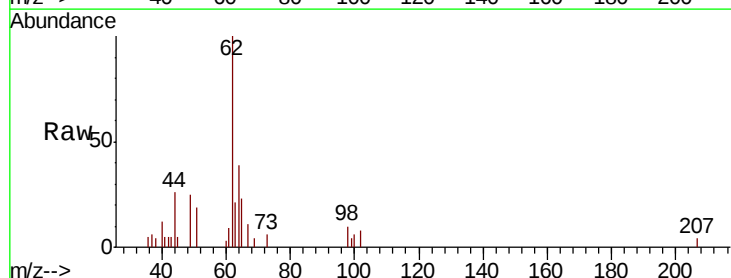
Instrument :
MSVOA_N
ClientSampled :
FRAC-TANK

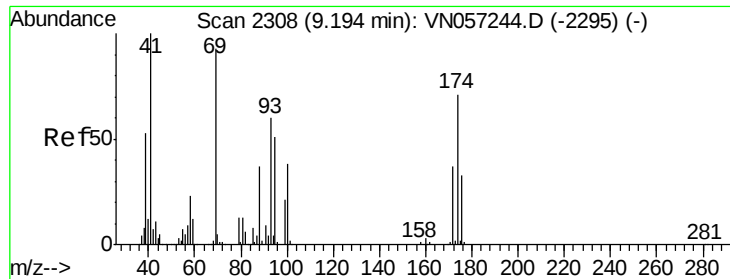
Tgt Ion:	41	Resp:	13882
Ion	Ratio	Lower	Upper
41	100		
39	31.6	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#42
1,2-Dichloroethane
Concen: 0.589 ug/l
RT: 8.12 min Scan# 1973
Delta R.T. -0.00 min
Lab File: VN057259.D
Acq: 13 Aug 2019 20:37

Tgt Ion:	62	Resp:	10267
Ion	Ratio	Lower	Upper
62	100		
98	12.0	0.0	20.0

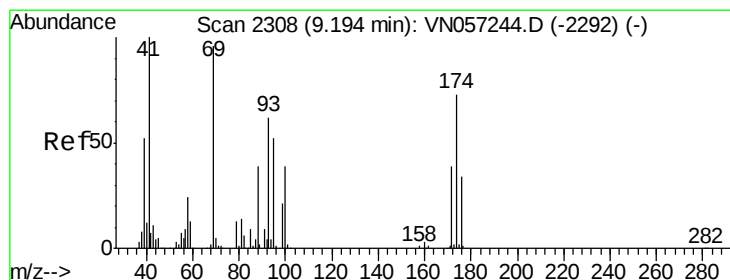
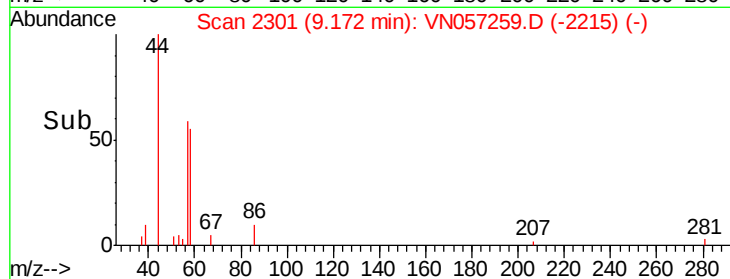
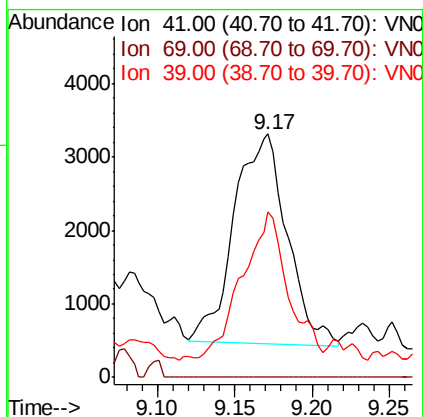
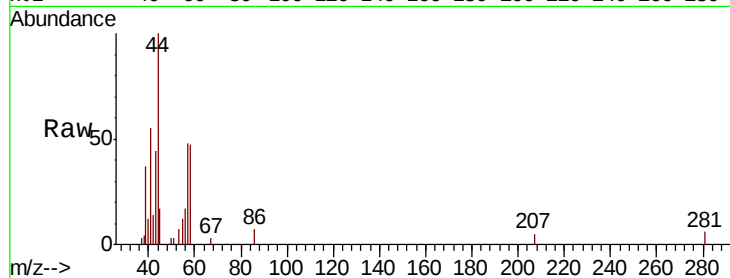




#48
Methyl methacrylate
Concen: 0.620 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN057259.D
Acq: 13 Aug 2019 20:37

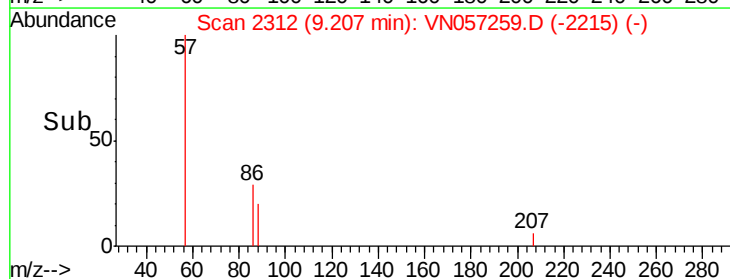
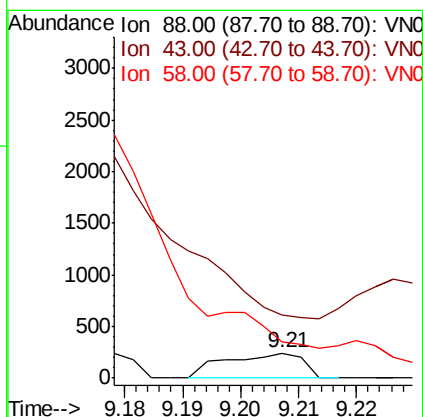
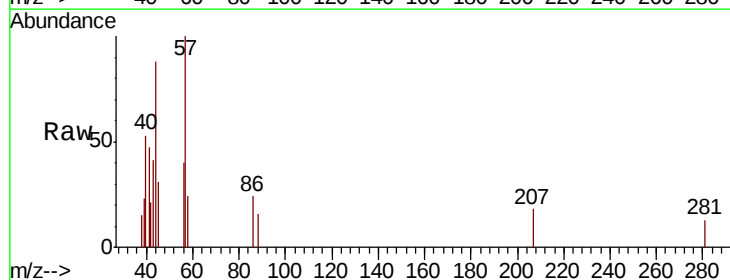
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK

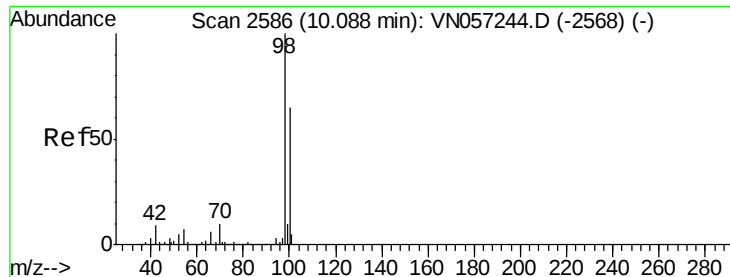
Tgt Ion: 41 Resp: 6796
Ion Ratio Lower Upper
41 100
69 0.0 75.7 113.5#
39 59.1 43.3 64.9



#49
1,4-Dioxane
Concen: 0.919 ug/l
RT: 9.21 min Scan# 2312
Delta R.T. 0.01 min
Lab File: VN057259.D
Acq: 13 Aug 2019 20:37

Tgt Ion: 88 Resp: 227
Ion Ratio Lower Upper
88 100
43 0.0 20.7 31.1#
58 0.0 52.0 78.0#





#50

Toluene-d8

Concen: 50.078 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

Instrument :

MSVOA_N

ClientSampled :

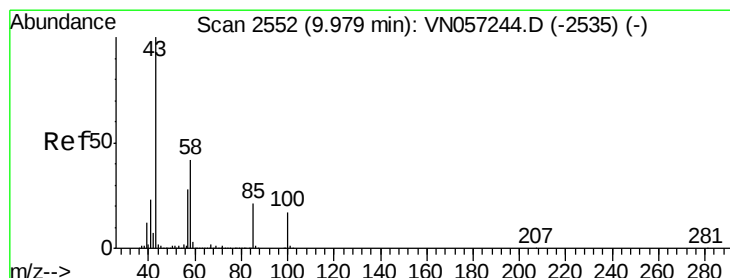
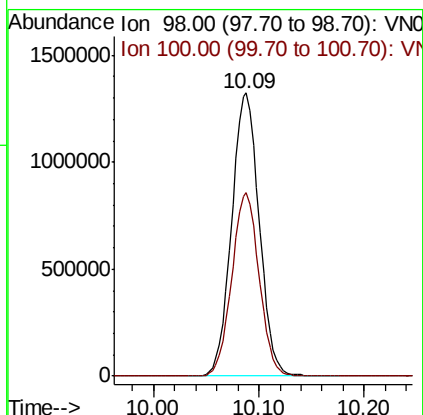
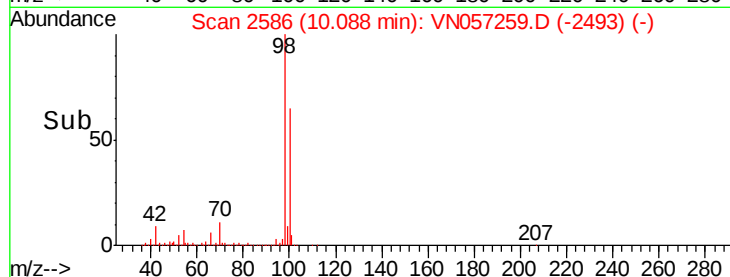
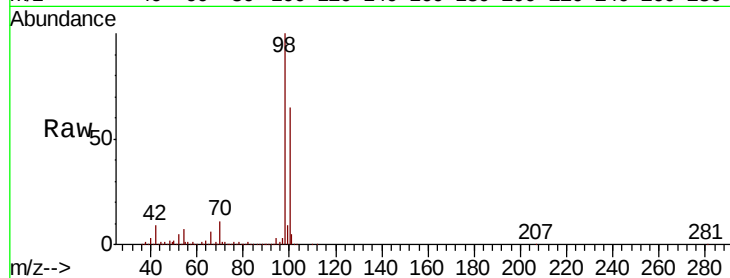
FRAC-TANK

Tgt Ion: 98 Resp: 2387561

Ion Ratio Lower Upper

98 100

100 64.4 51.8 77.6



#51

4-Methyl-2-Pentanone

Concen: 1.062 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.00 min

Lab File: VN057259.D

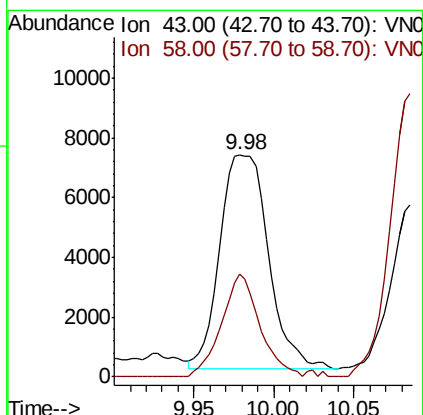
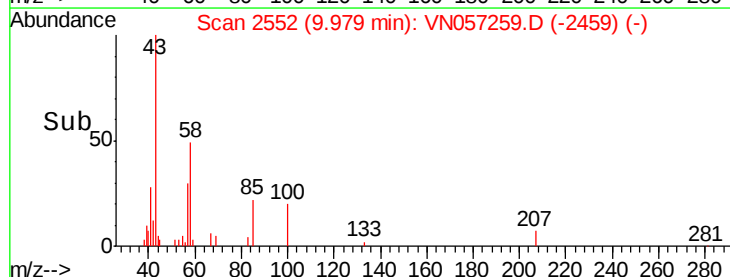
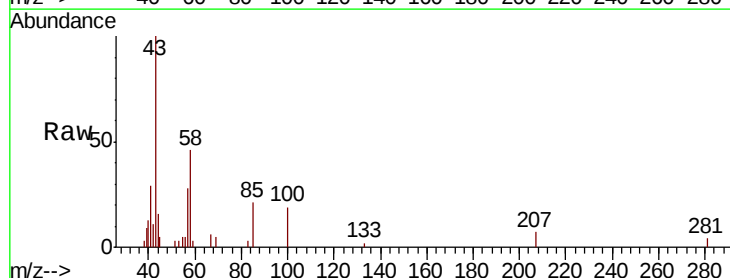
Acq: 13 Aug 2019 20:37

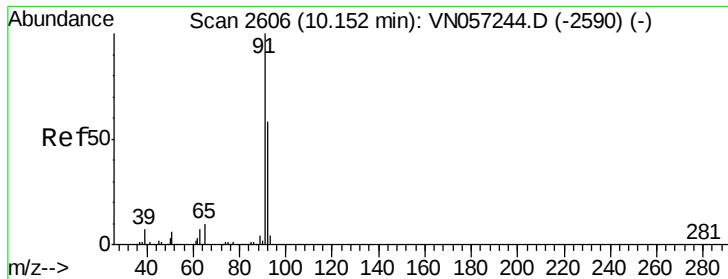
Tgt Ion: 43 Resp: 14769

Ion Ratio Lower Upper

43 100

58 38.3 33.7 50.5





#52

Toluene

Concen: 18.303 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

Instrument :

MSVOA_N

ClientSampled :

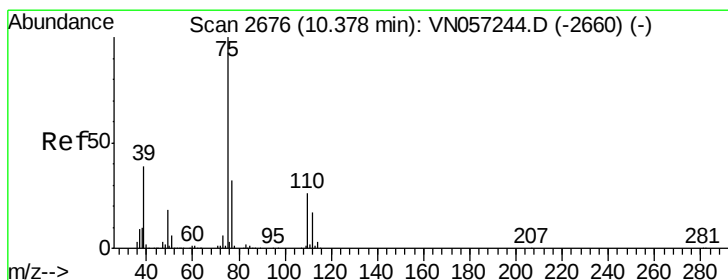
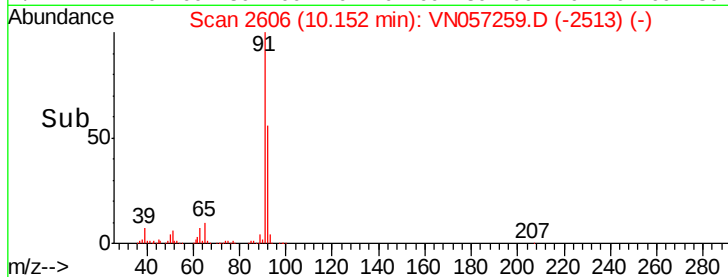
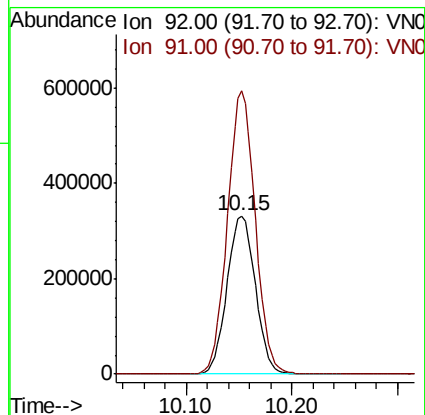
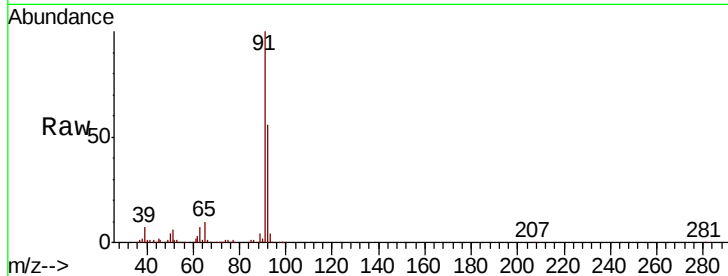
FRAC-TANK

Tgt Ion: 92 Resp: 618258

Ion Ratio Lower Upper

92 100

91 174.5 138.2 207.2



#53

t-1,3-Dichloropropene

Concen: 0.385 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.23 min

Lab File: VN057259.D

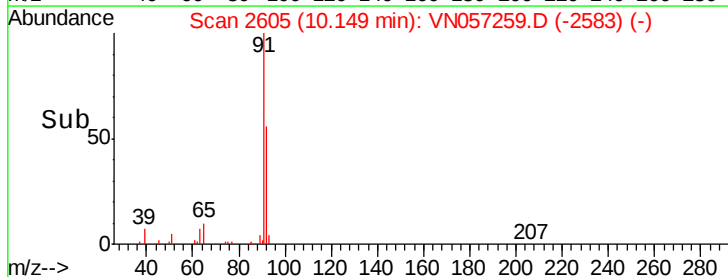
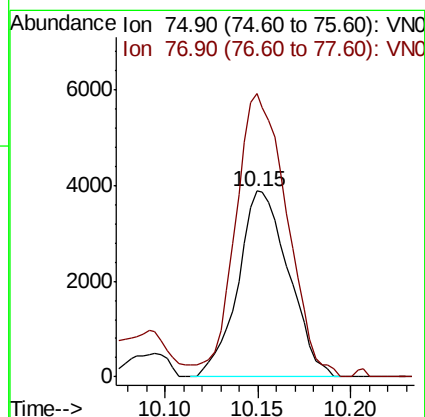
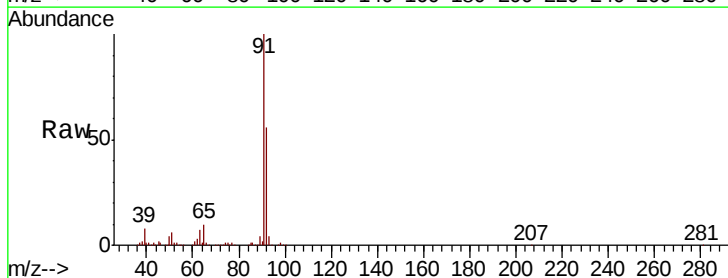
Acq: 13 Aug 2019 20:37

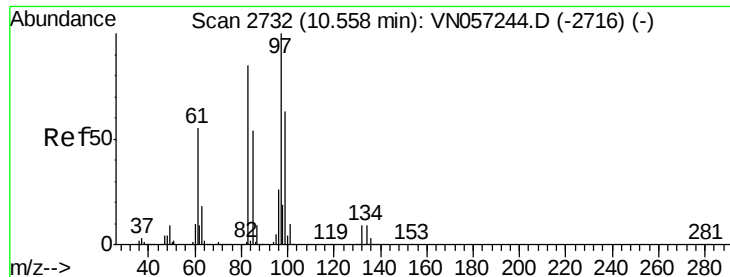
Tgt Ion: 75 Resp: 7367

Ion Ratio Lower Upper

75 100

77 152.4 25.3 37.9#





#55

1,1,2-Trichloroethane

Concen: 0.616 ug/l

RT: 10.53 min Scan# 2723

Delta R.T. -0.03 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK

Tgt Ion: 97 Resp: 8132

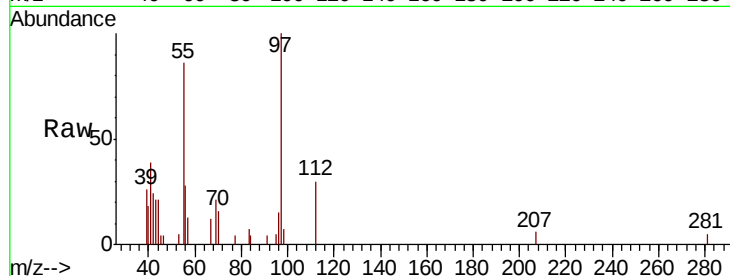
Ion Ratio Lower Upper

97 100

83 6.6 68.4 102.6#

85 0.0 43.0 64.6#

99 0.0 50.6 75.8#

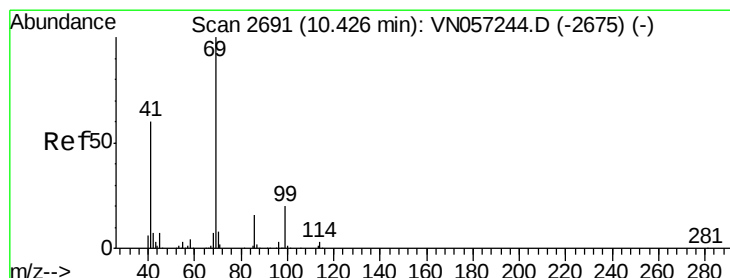
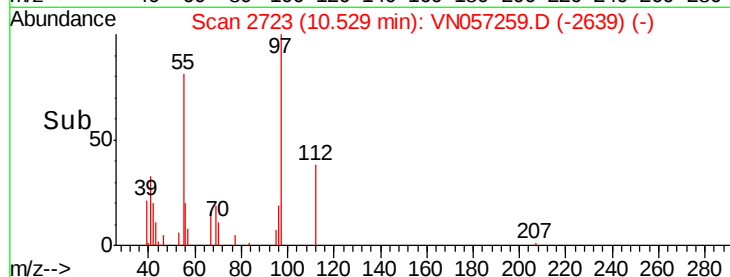
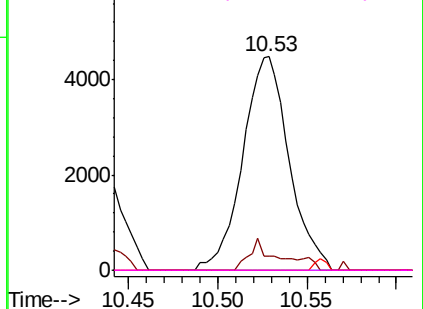


Abundance Ion 96.90 (96.60 to 97.60): VNC

Ion 82.90 (82.60 to 83.60): VNC

Ion 84.90 (84.60 to 85.60): VNC

Ion 98.90 (98.60 to 99.60): VNC



#56

Ethyl methacrylate

Concen: 1.411 ug/l

RT: 10.36 min Scan# 2672

Delta R.T. -0.06 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

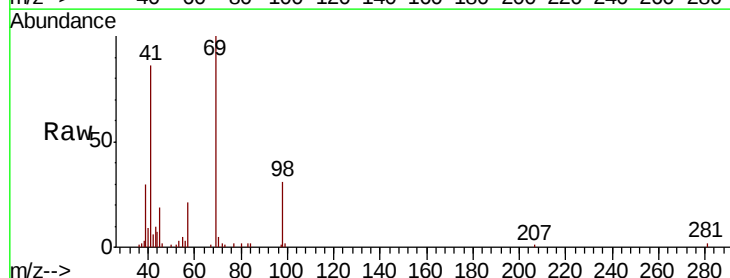
Tgt Ion: 69 Resp: 26144

Ion Ratio Lower Upper

69 100

41 83.8 47.6 71.4#

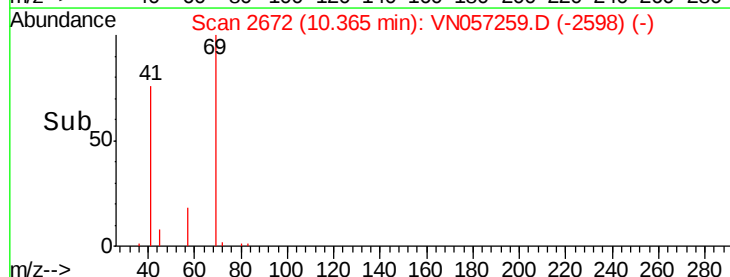
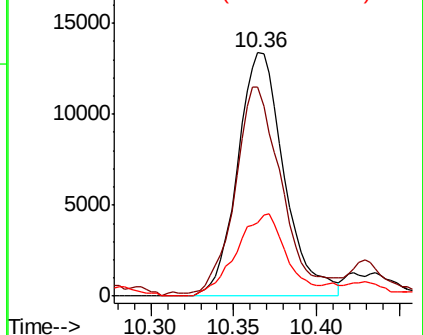
39 36.1 23.4 35.0#

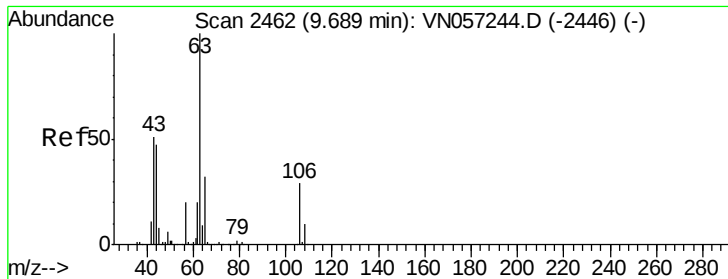


Abundance Ion 69.00 (68.70 to 69.70): VNC

Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

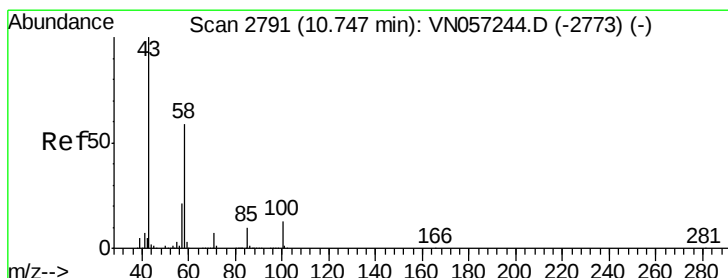
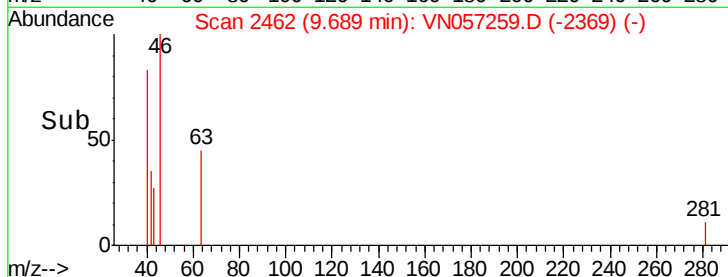
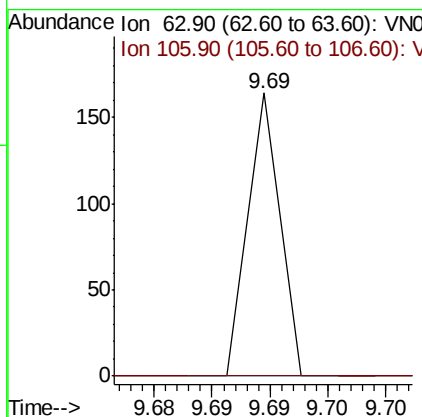
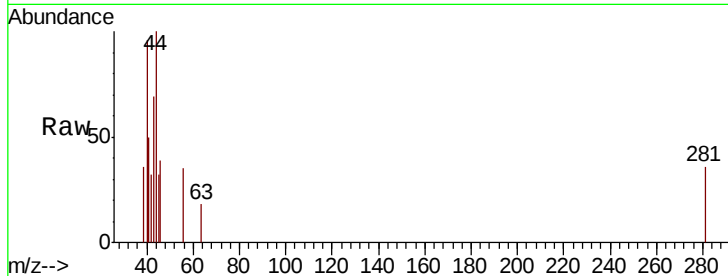




#58
 2-Chloroethyl Vinyl ether
 Concen: 20.532 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VN057259.D
 Acq: 13 Aug 2019 20:37

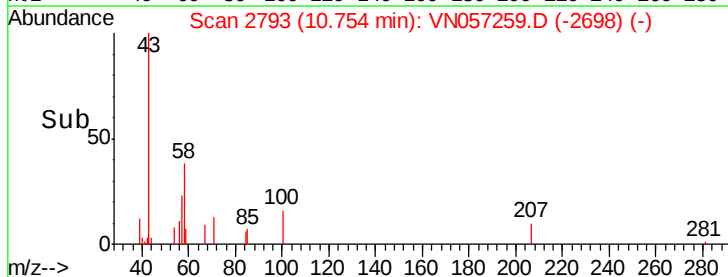
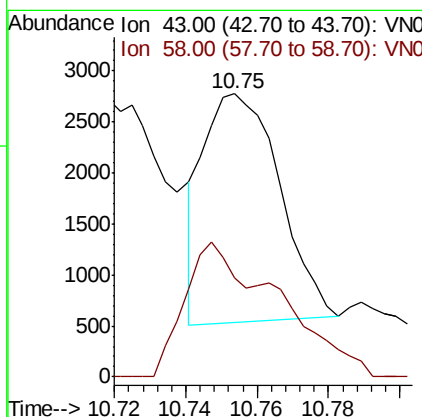
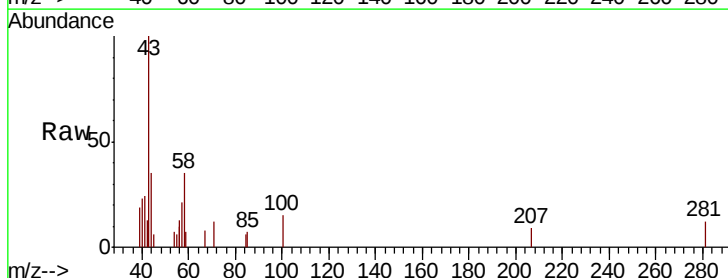
Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK

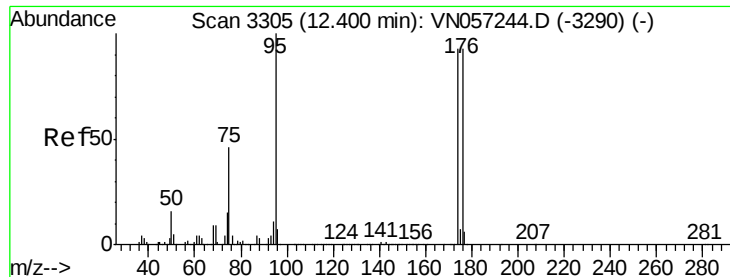
Tgt Ion: 63 Resp: 32
 Ion Ratio Lower Upper
 63 100
 106 0.0 23.4 35.2#



#59
 2-Hexanone
 Concen: 0.335 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN057259.D
 Acq: 13 Aug 2019 20:37

Tgt Ion: 43 Resp: 3305
 Ion Ratio Lower Upper
 43 100
 58 72.9 29.1 87.4





#62

4-Bromofluorobenzene

Concen: 43.220 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

Instrument :

MSVOA_N

ClientSampled :

FRAC-TANK

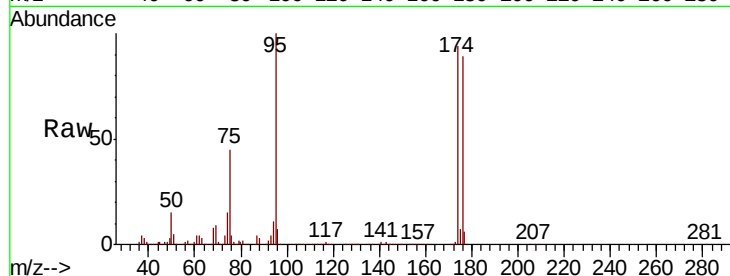
Tgt Ion: 95 Resp: 706653

Ion Ratio Lower Upper

95 100

174 95.0 0.0 187.6

176 91.6 0.0 185.8



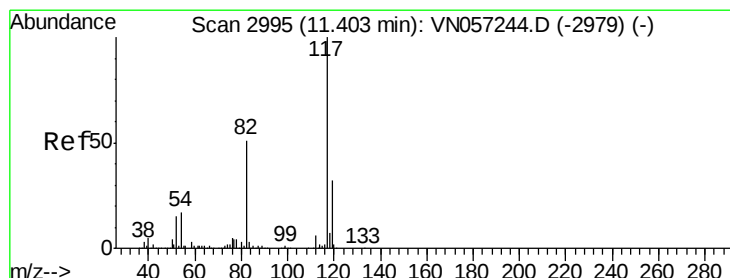
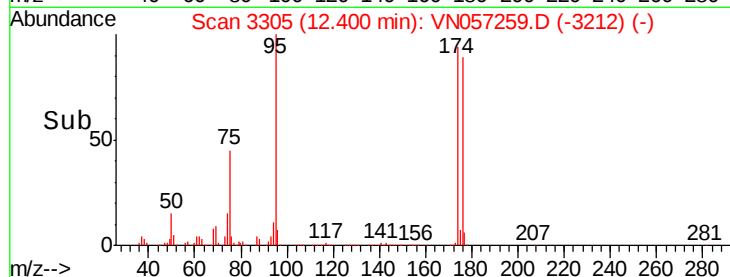
Abundance Ion 94.90 (94.60 to 95.60): VN057244.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN057244.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN057244.D (-3290) (-)

12.40

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

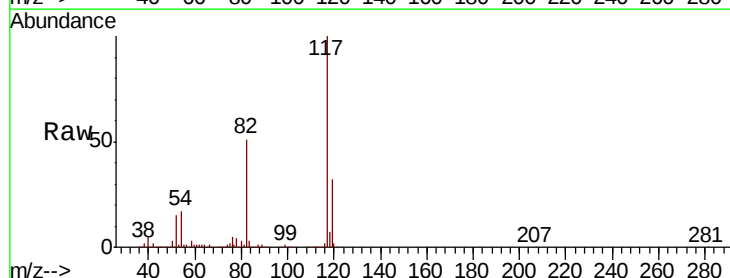
Tgt Ion: 117 Resp: 1718026

Ion Ratio Lower Upper

117 100

82 50.9 40.9 61.3

119 31.8 25.4 38.2



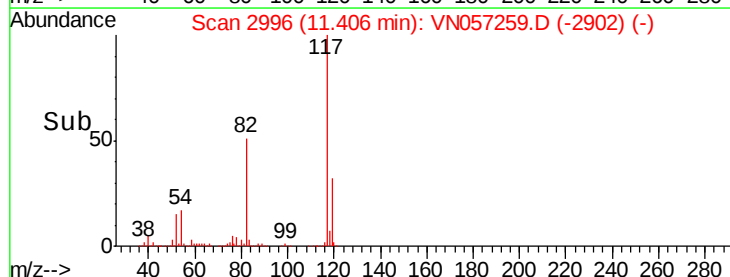
Abundance Ion 116.90 (116.60 to 117.60): VN057244.D (-2979) (-)

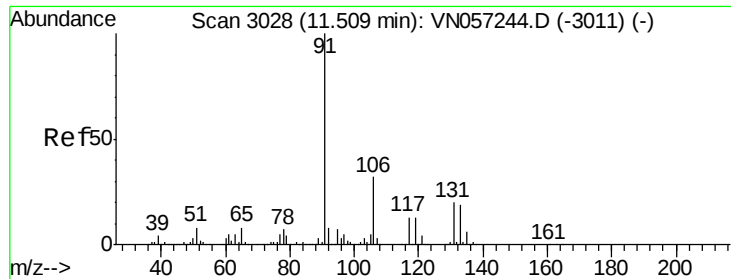
Ion 82.00 (81.70 to 82.70): VN057244.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN057244.D (-2979) (-)

11.41

Time--> 11.30 11.40 11.50

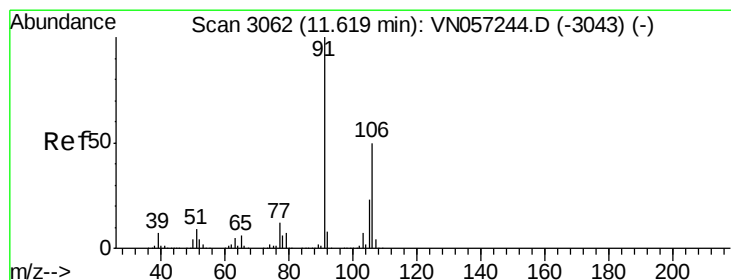
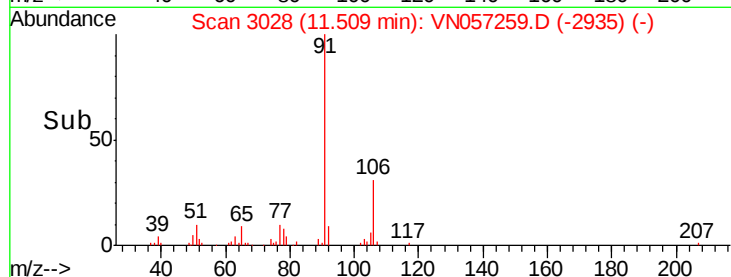
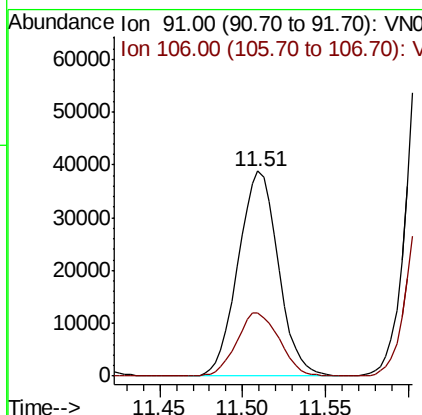
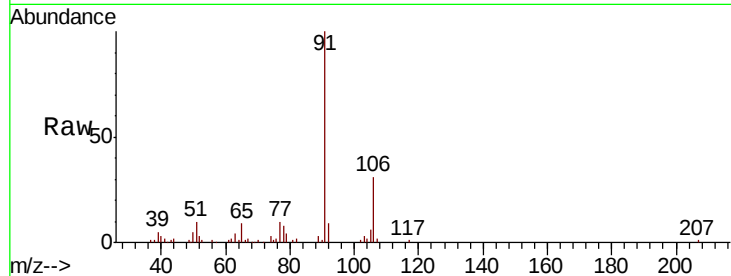




#67
Ethyl Benzene
Concen: 1.088 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN057259.D
Acq: 13 Aug 2019 20:37

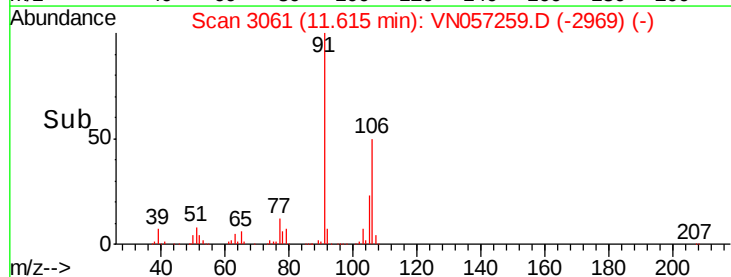
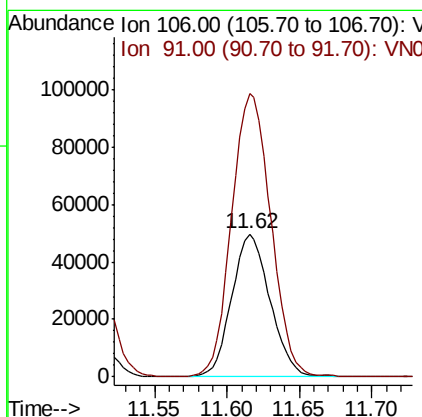
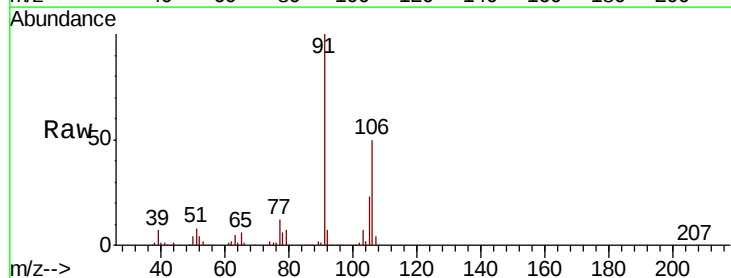
Instrument :
MSVOA_N
ClientSampled :
FRAC-TANK

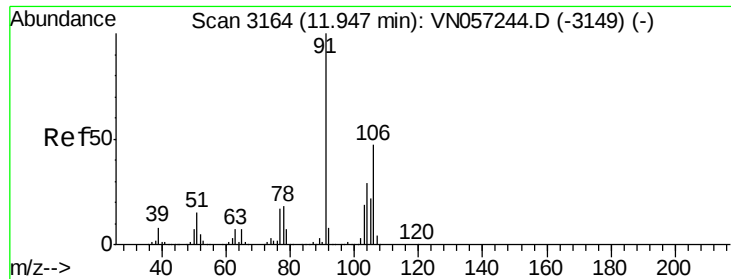
Tgt Ion: 91 Resp: 65280
Ion Ratio Lower Upper
91 100
106 30.6 25.4 38.0



#68
m/p-Xylenes
Concen: 4.079 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN057259.D
Acq: 13 Aug 2019 20:37

Tgt Ion: 106 Resp: 91340
Ion Ratio Lower Upper
106 100
91 203.2 161.4 242.0

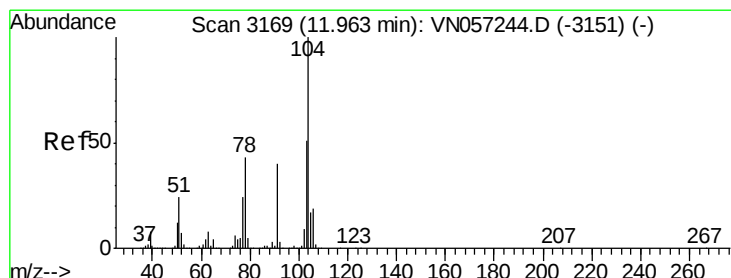
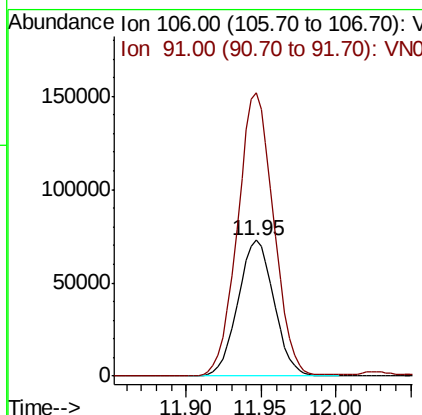
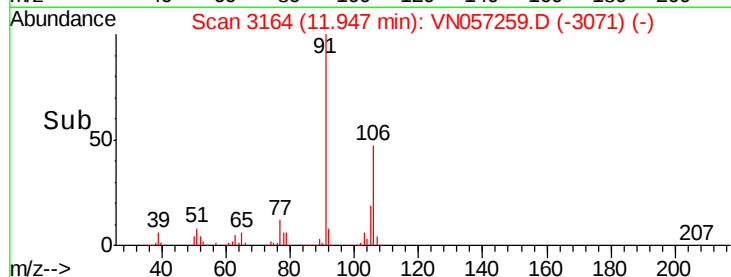
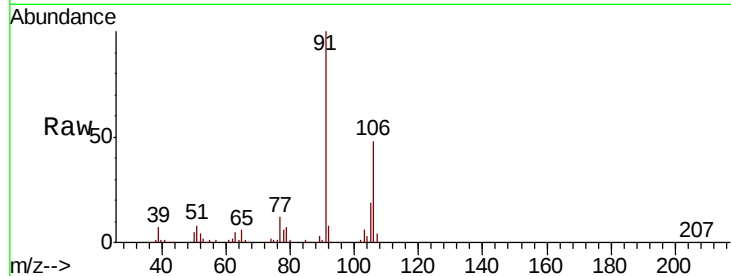




#69
o-Xylene
Concen: 5.574 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN057259.D
Acq: 13 Aug 2019 20:37

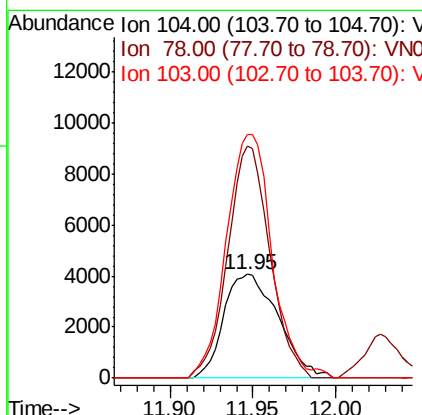
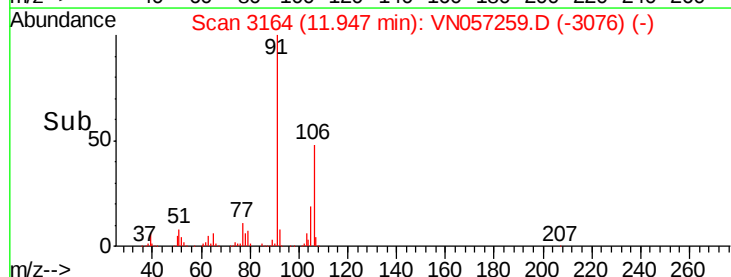
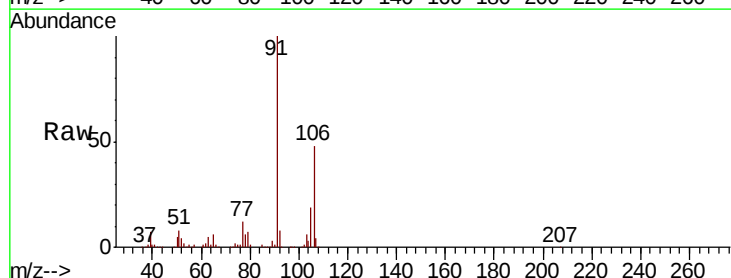
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK

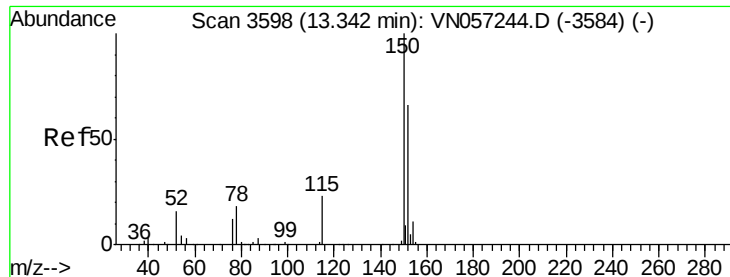
Tgt Ion:106 Resp: 122200
Ion Ratio Lower Upper
106 100
91 208.8 106.5 319.4



#70
Styrene
Concen: 0.275 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.02 min
Lab File: VN057259.D
Acq: 13 Aug 2019 20:37

Tgt Ion:104 Resp: 9322
Ion Ratio Lower Upper
104 100
78 172.2 38.6 57.8#
103 194.9 43.9 65.9#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK

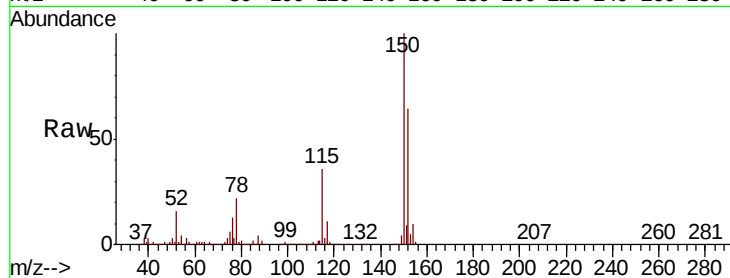
Tgt Ion:152 Resp: 547538

Ion Ratio Lower Upper

152 100

115 56.6 27.6 82.8

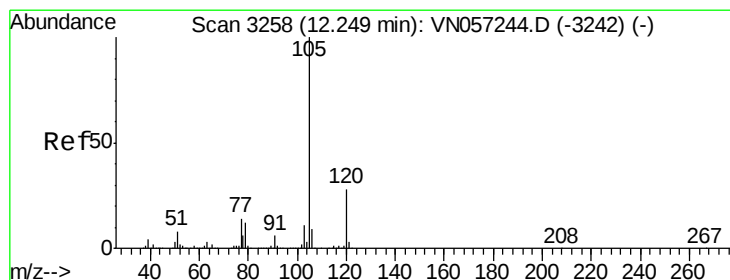
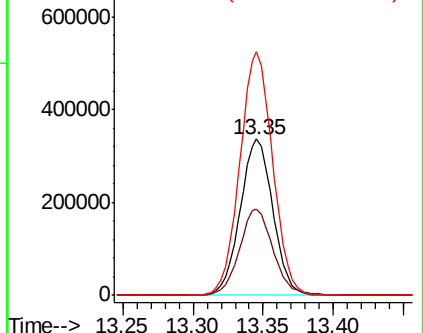
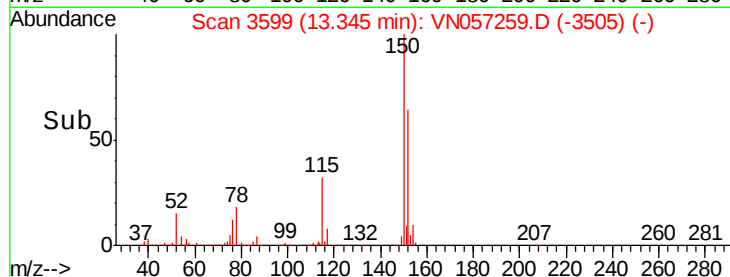
150 156.5 0.0 348.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN057259.D

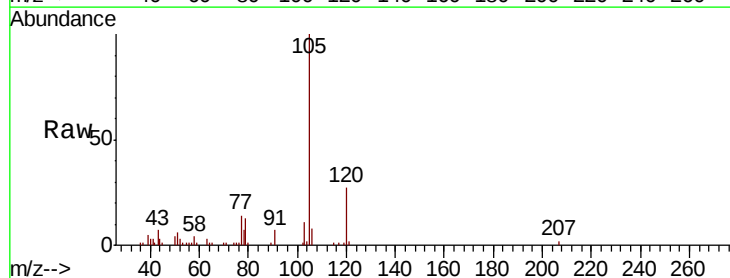
Acq: 13 Aug 2019 20:37

Tgt Ion:105 Resp: 41870

Ion Ratio Lower Upper

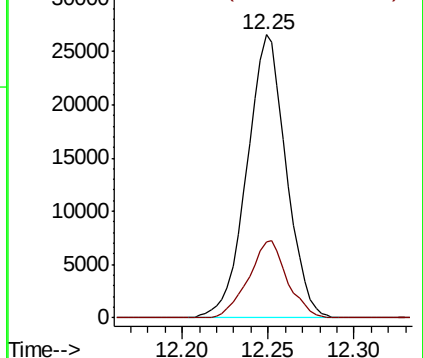
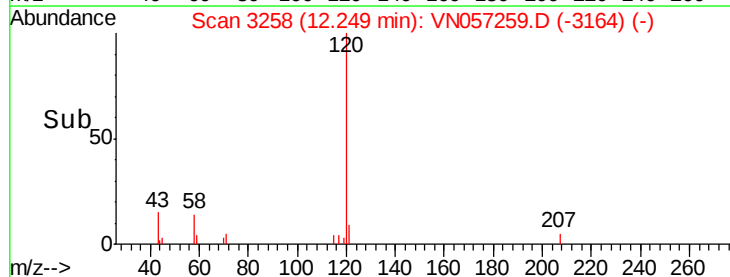
105 100

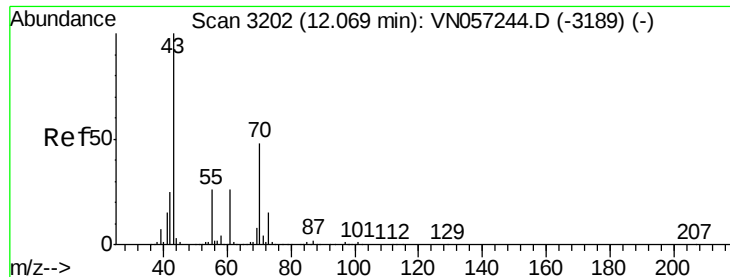
120 26.8 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amyI acetate

Concen: 852.043 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

Instrument :

MSVOA_N

ClientSampled :

FRAC-TANK

Tgt Ion: 43 Resp:10748860

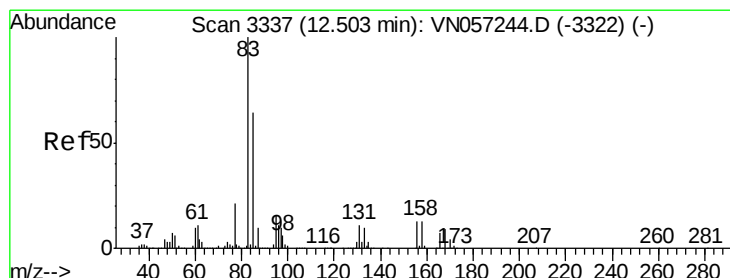
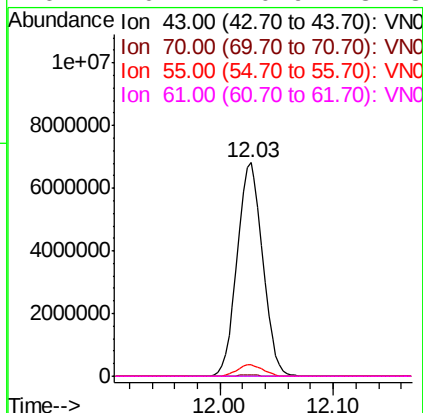
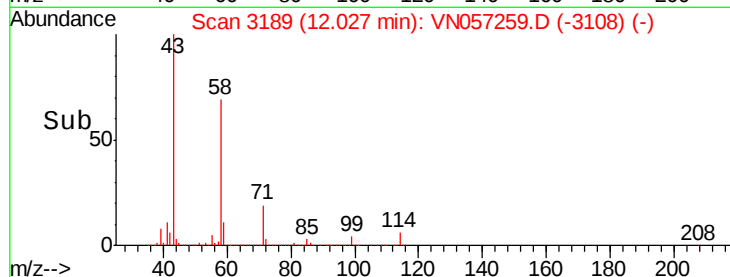
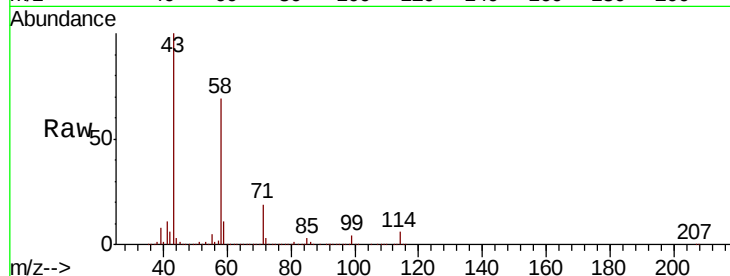
Ion Ratio Lower Upper

43 100

70 0.5 37.4 56.2#

55 5.5 21.0 31.4#

61 0.1 20.9 31.3#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. -0.11 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

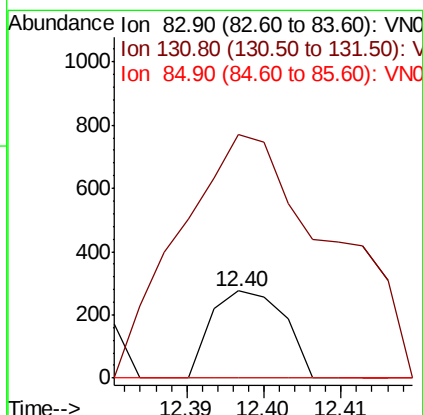
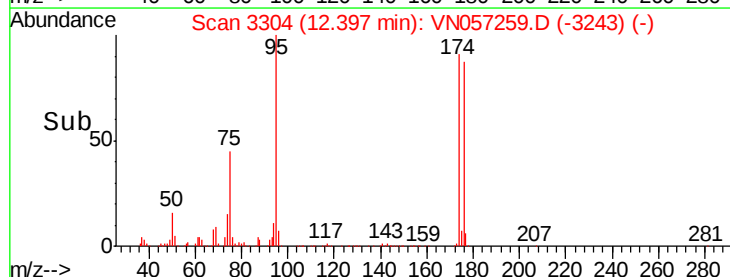
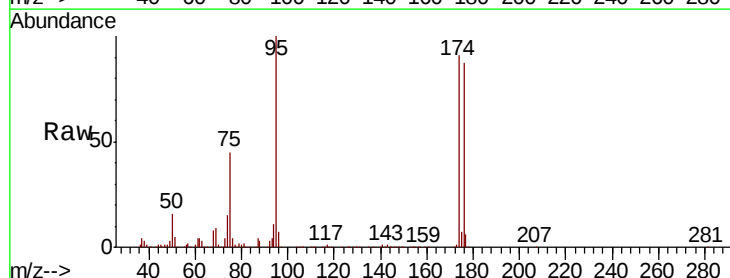
Tgt Ion: 83 Resp: 181

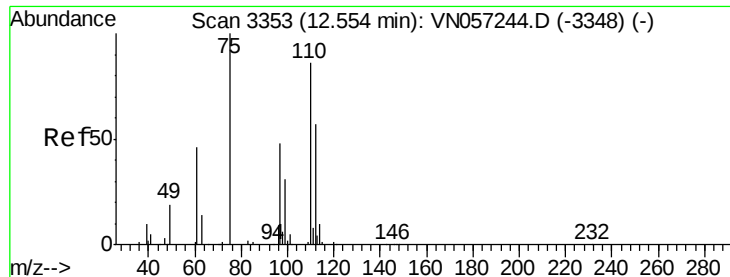
Ion Ratio Lower Upper

83 100

131 578.5 5.6 16.8#

85 0.0 32.3 96.8#





#76

1,2,3-Trichloropropane

Concen: 32.196 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

Instrument :

MSVOA_N

ClientSampled :

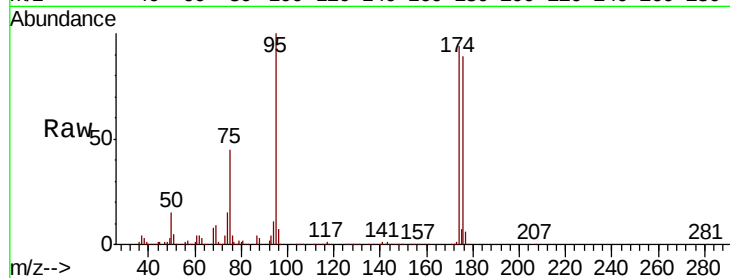
FRAC-TANK

Tgt Ion: 75 Resp: 320454

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

200000

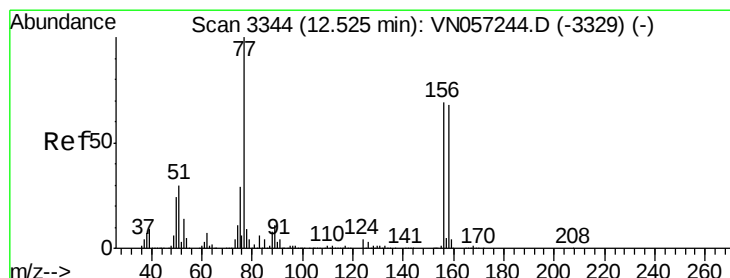
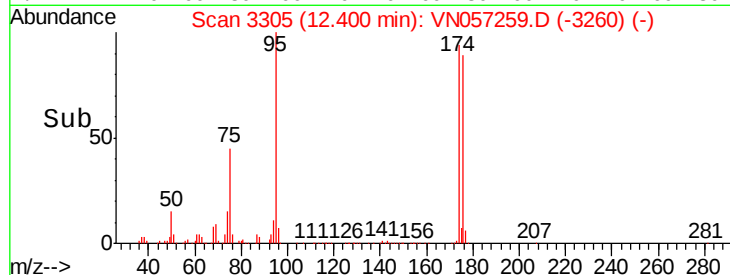
150000

100000

50000

0

Time-->



#77

Bromobenzene

Concen: Below Cal

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

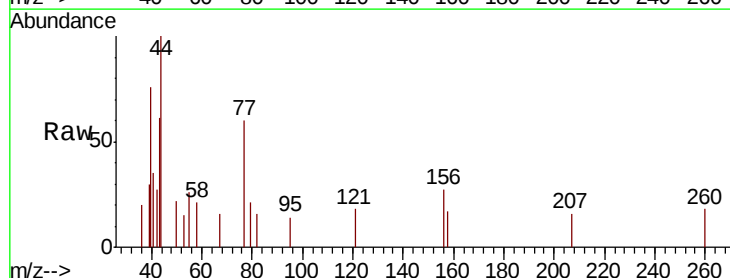
Tgt Ion: 156 Resp: 244

Ion Ratio Lower Upper

156 100

77 0.0 88.0 264.1#

158 48.4 49.4 148.0#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V

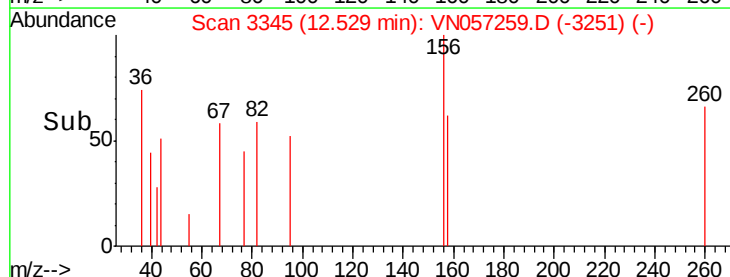
1500

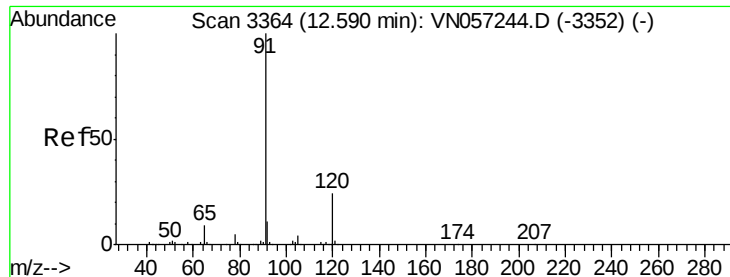
1000

500

0

Time-->

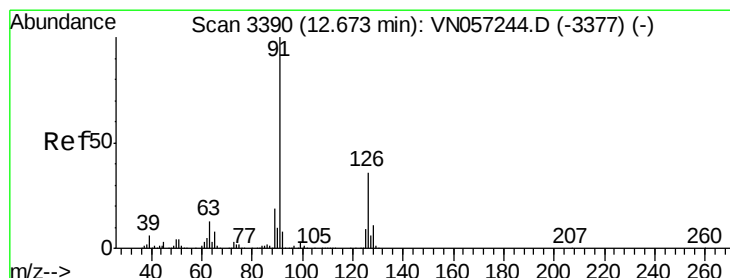
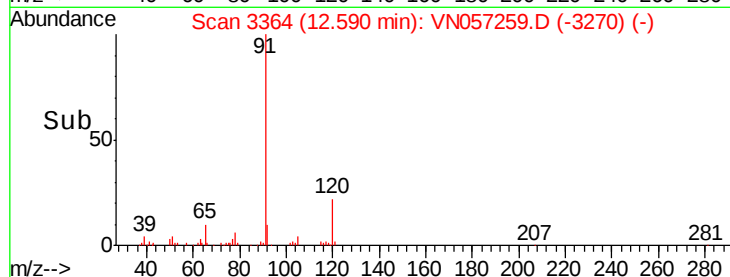
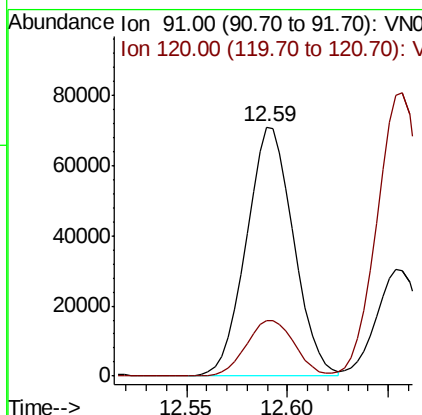
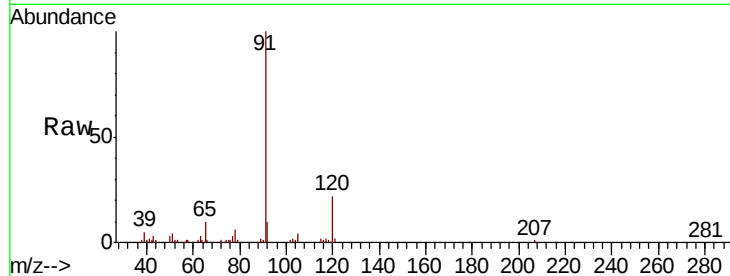




#78
n-propylbenzene
Concen: 1.438 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN057259.D
Acq: 13 Aug 2019 20:37

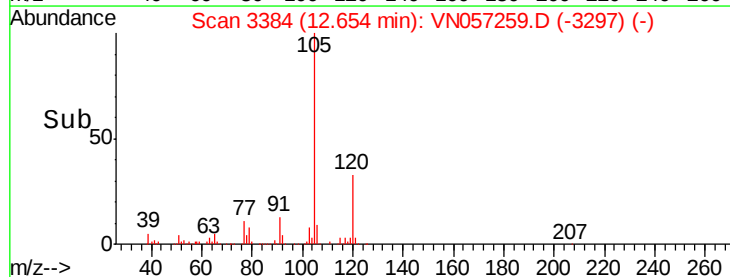
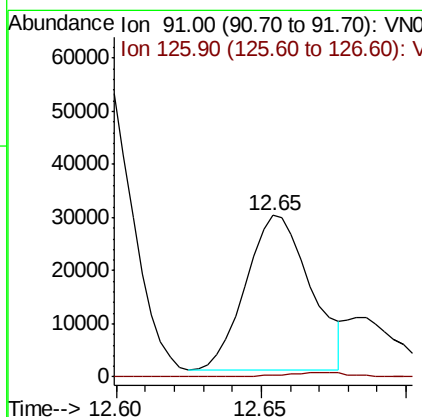
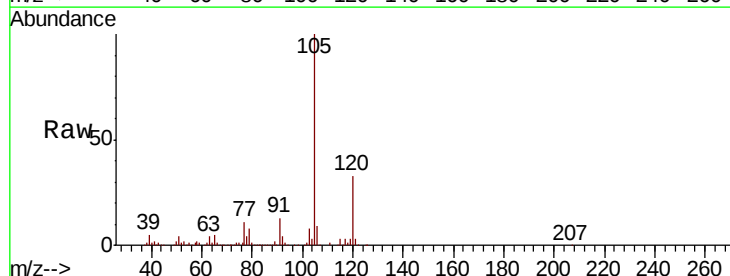
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK

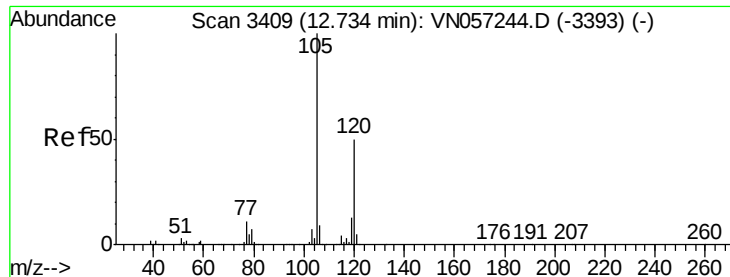
Tgt Ion: 91 Resp: 115870
Ion Ratio Lower Upper
91 100
120 23.0 12.1 36.3



#79
2-Chlorotoluene
Concen: Below Cal
RT: 12.65 min Scan# 3384
Delta R.T. -0.02 min
Lab File: VN057259.D
Acq: 13 Aug 2019 20:37

Tgt Ion: 91 Resp: 45172
Ion Ratio Lower Upper
91 100
126 2.9 18.0 54.0#





#80

1,3,5-Trimethylbenzene

Concen: 3.938 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

Instrument :

MSVOA_N

ClientSampleId :

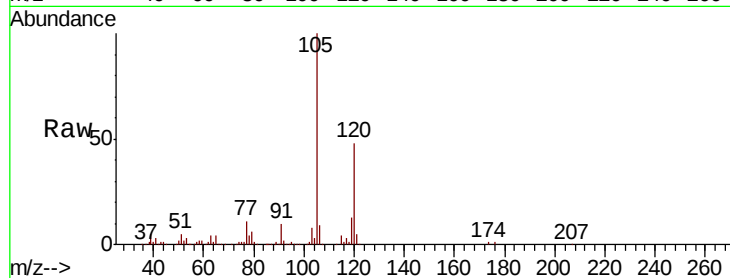
FRAC-TANK

Tgt Ion:105 Resp: 212276

Ion Ratio Lower Upper

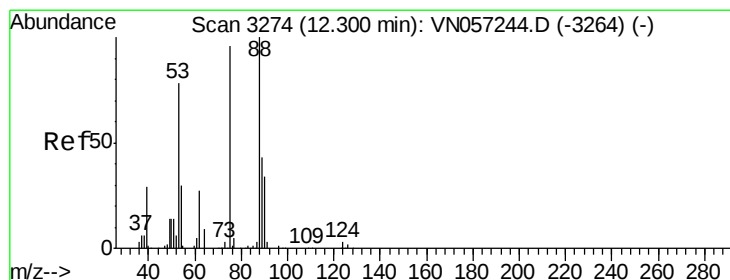
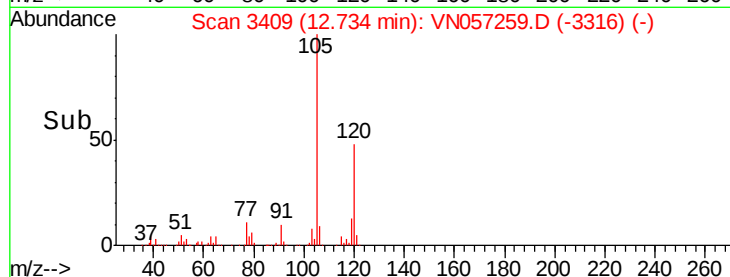
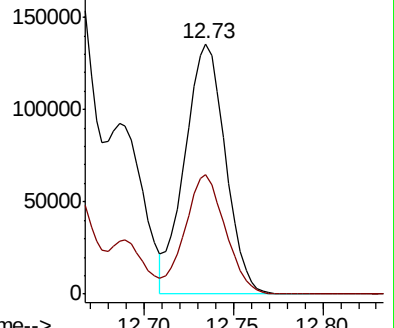
105 100

120 47.7 25.3 75.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 78.612 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

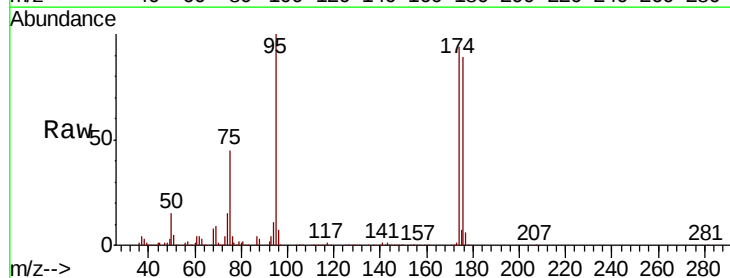
Tgt Ion: 75 Resp: 320454

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.6#

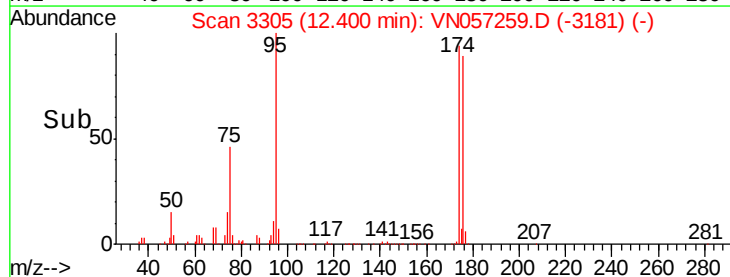
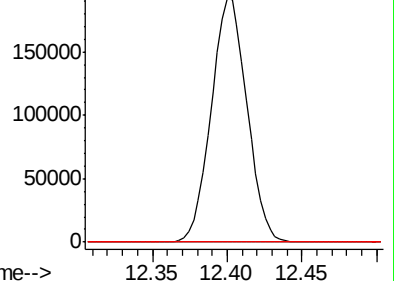
89 0.0 36.7 55.1#

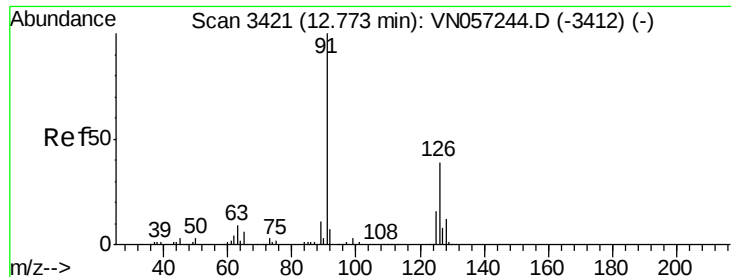


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#82

4-Chlorotoluene

Concen: 0.671 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.04 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

Instrument :

MSVOA_N

ClientSampleId :

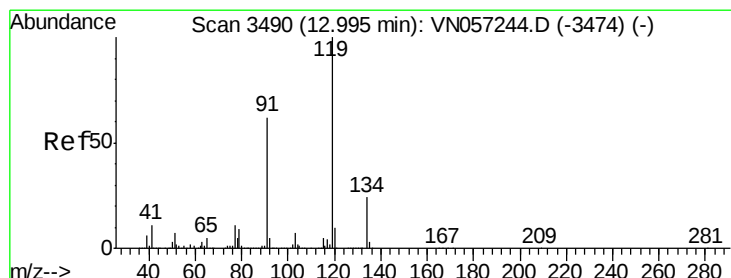
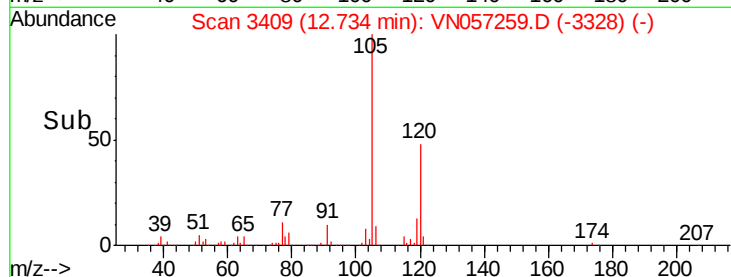
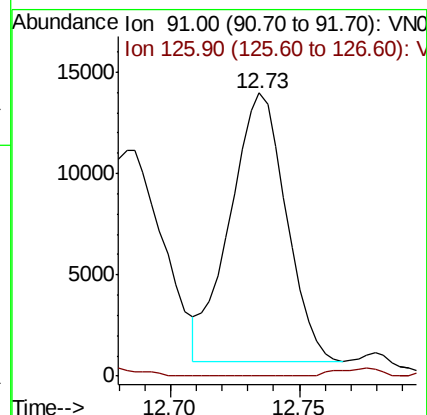
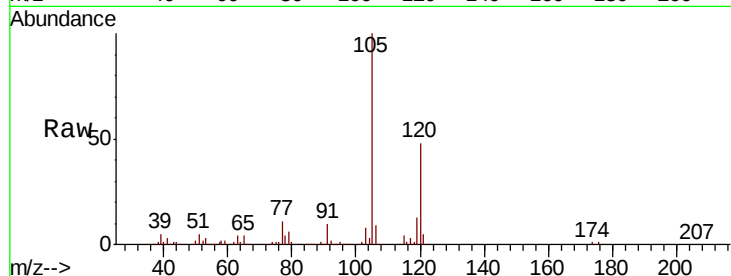
FRAC-TANK

Tgt Ion: 91 Resp: 20025

Ion Ratio Lower Upper

91 100

126 0.0 17.9 53.7#



#83

tert-Butylbenzene

Concen: 0.282 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.05 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

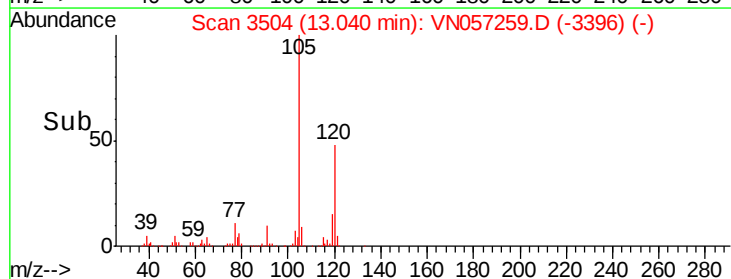
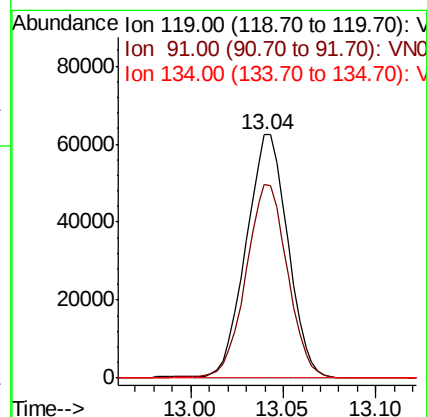
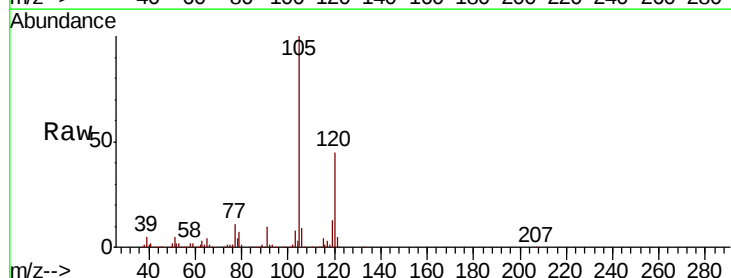
Tgt Ion: 119 Resp: 98276

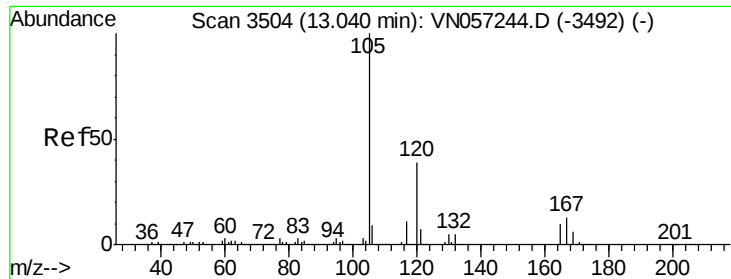
Ion Ratio Lower Upper

119 100

91 79.2 30.8 92.3

134 0.0 12.9 38.7#

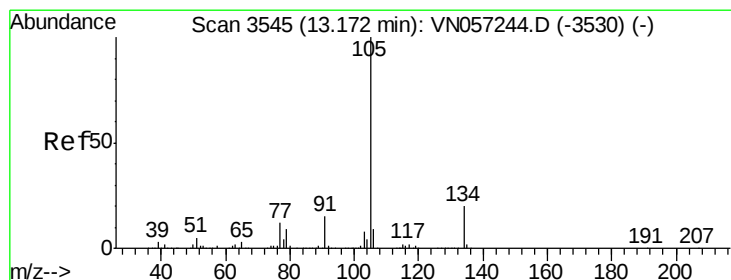
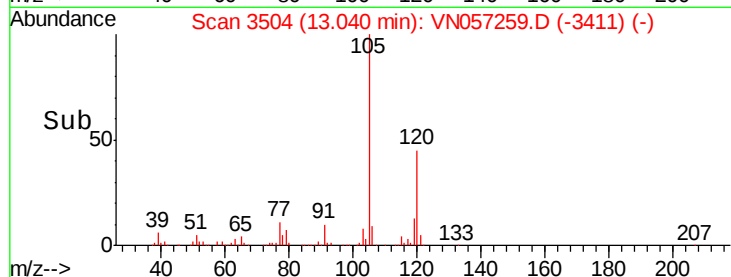
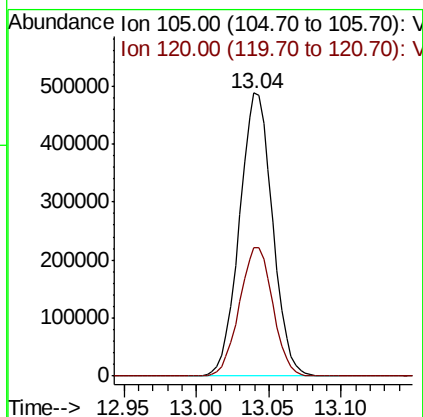
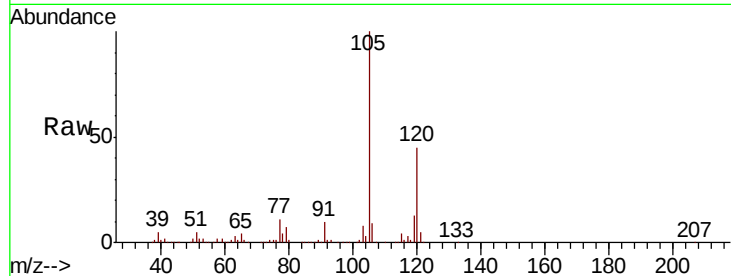




#84
 1,2,4-Trimethylbenzene
 Concen: 20.026 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN057259.D
 Acq: 13 Aug 2019 20:37

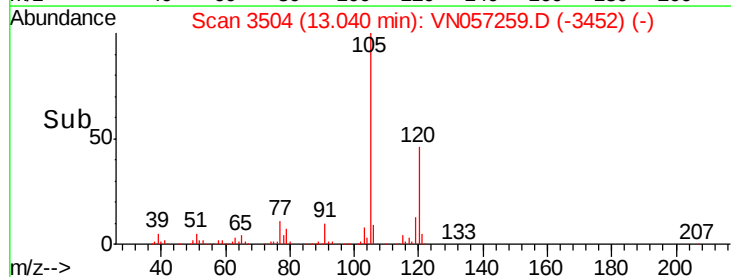
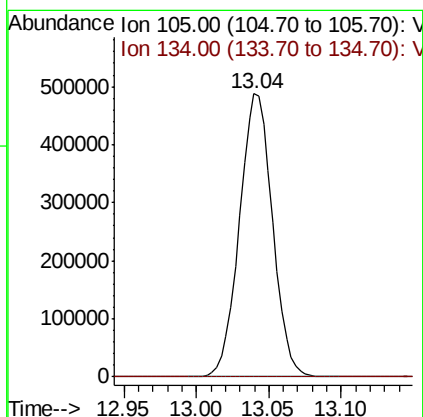
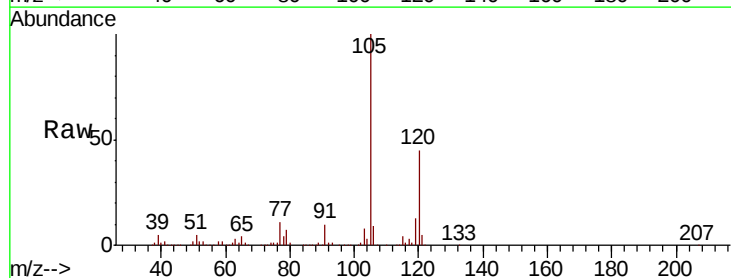
Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK

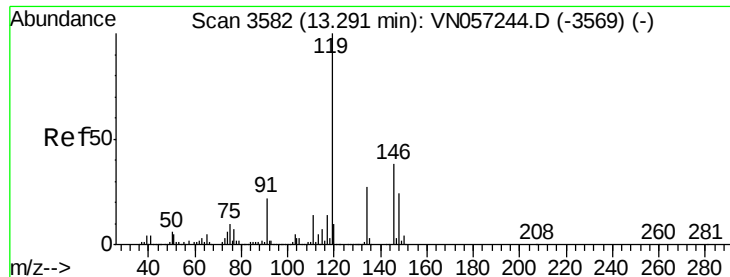
Tgt Ion:105 Resp: 772129
 Ion Ratio Lower Upper
 105 100
 120 46.0 23.2 69.5



#85
 sec-Butylbenzene
 Concen: 18.216 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.13 min
 Lab File: VN057259.D
 Acq: 13 Aug 2019 20:37

Tgt Ion:105 Resp: 772129
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.2#

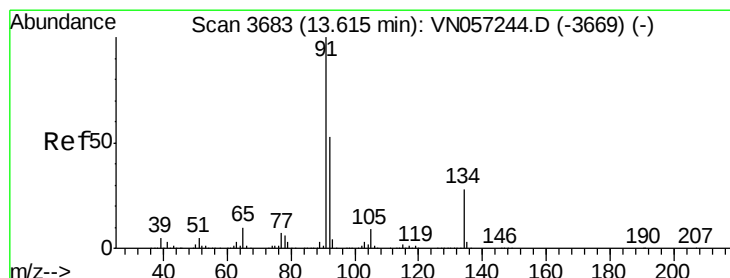
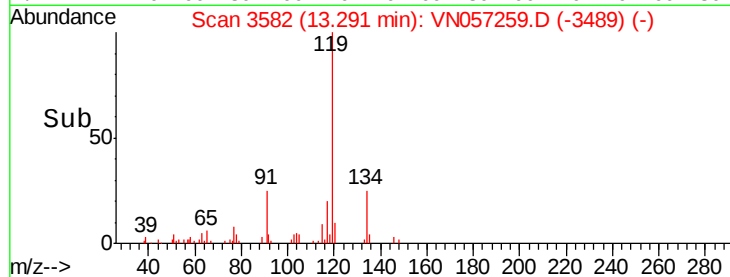
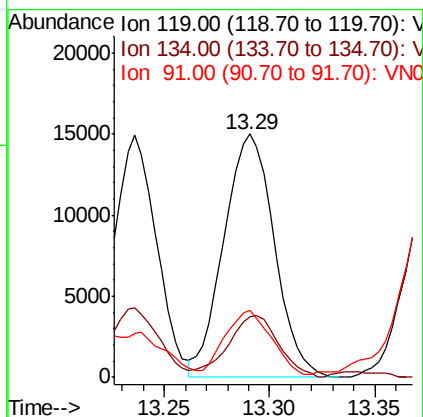
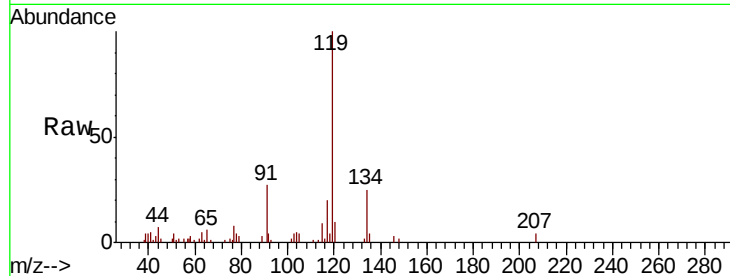




#86
 p-Isopropyltoluene
 Concen: 0.620 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN057259.D
 Acq: 13 Aug 2019 20:37

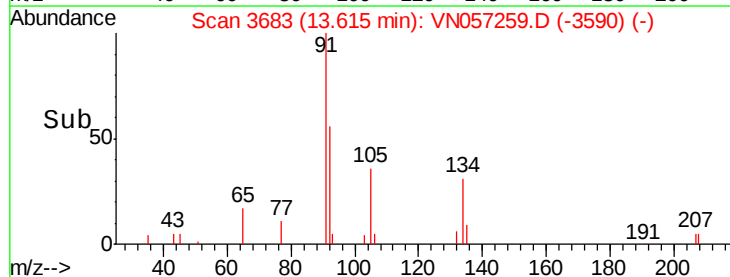
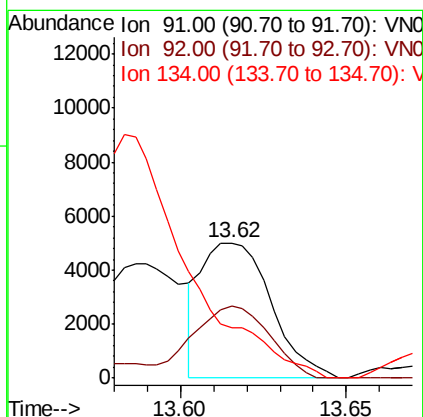
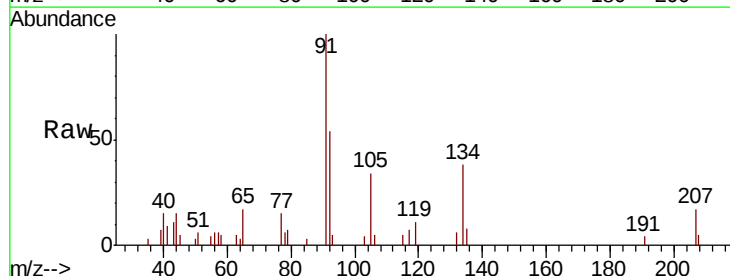
Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK

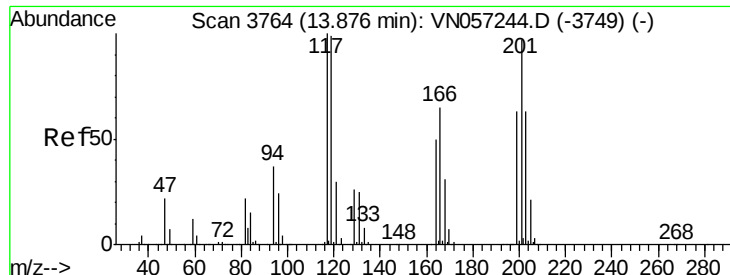
Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.7	13.5	40.5
91	26.1	11.1	33.3



#89
 n-Butylbenzene
 Concen: 0.258 ug/l
 RT: 13.62 min Scan# 3683
 Delta R.T. -0.00 min
 Lab File: VN057259.D
 Acq: 13 Aug 2019 20:37

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.9	26.3	78.9
134	0.0	14.1	42.3

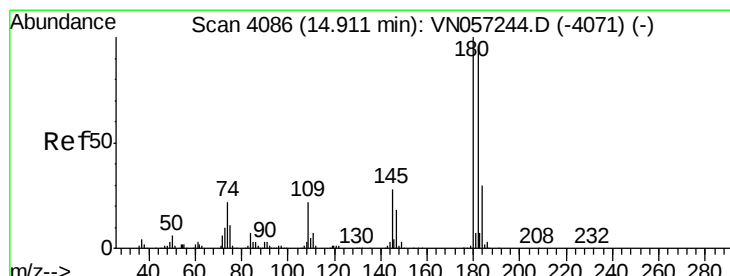
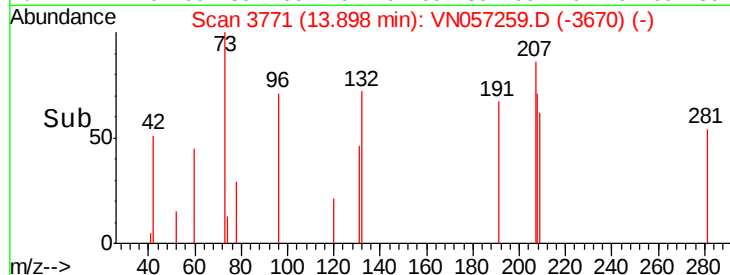
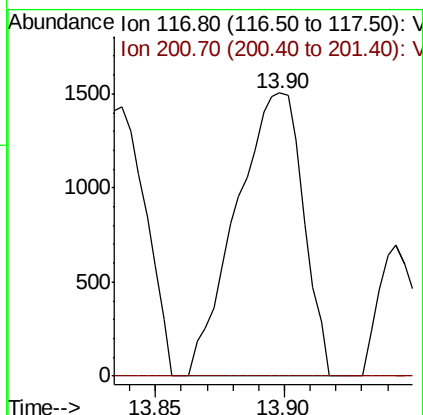
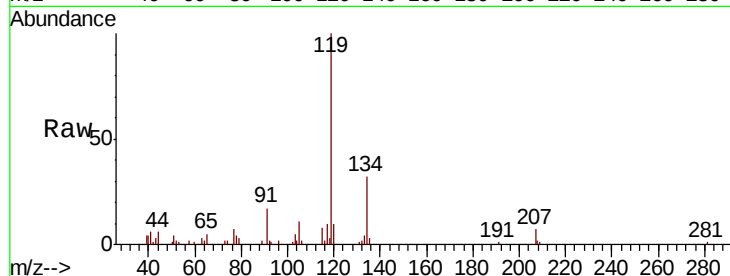




#90
Hexachloroethane
Concen: Below Cal
RT: 13.90 min Scan# 3771
Delta R.T. 0.02 min
Lab File: VN057259.D
Acq: 13 Aug 2019 20:37

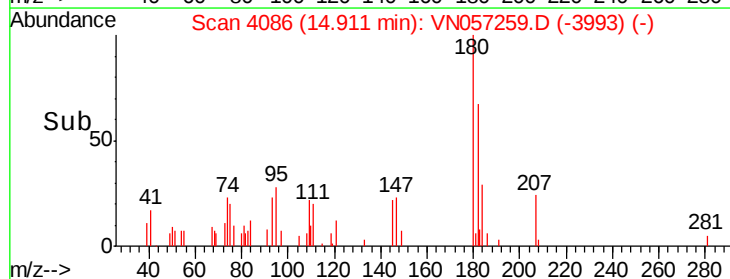
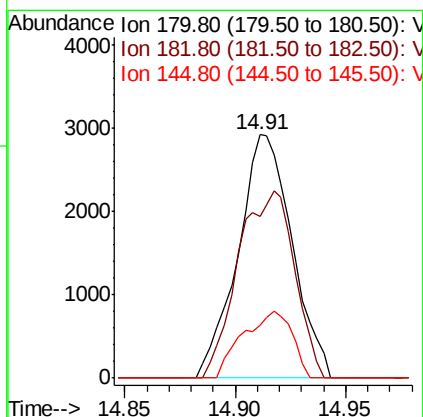
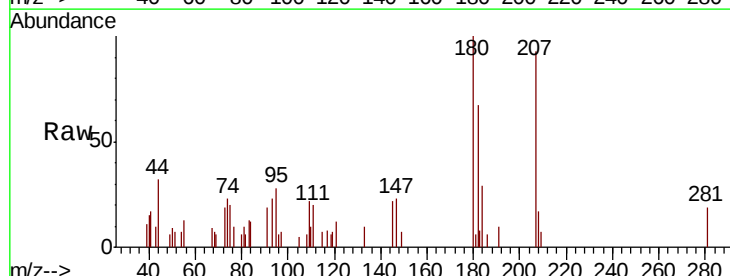
Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK

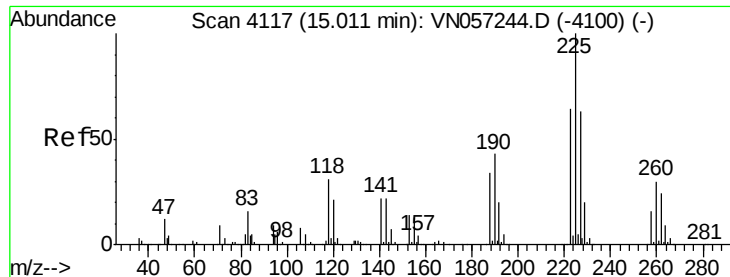
Tgt Ion:117 Resp: 2723
Ion Ratio Lower Upper
117 100
201 0.0 49.5 148.5#



#93
1,2,4-Trichlorobenzene
Concen: 3.890 ug/l
RT: 14.91 min Scan# 4086
Delta R.T. 0.00 min
Lab File: VN057259.D
Acq: 13 Aug 2019 20:37

Tgt Ion:180 Resp: 4964
Ion Ratio Lower Upper
180 100
182 80.0 47.7 143.1
145 24.9 14.2 42.6





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4114

Delta R.T. -0.01 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

Instrument :

MSVOA_N

ClientSampled :

FRAC-TANK

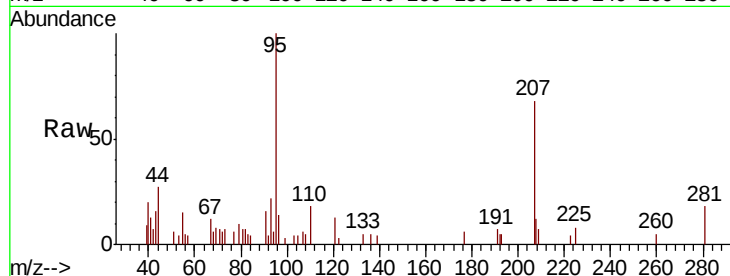
Tgt Ion:225 Resp: 231

Ion Ratio Lower Upper

225 100

223 163.6 31.4 94.2#

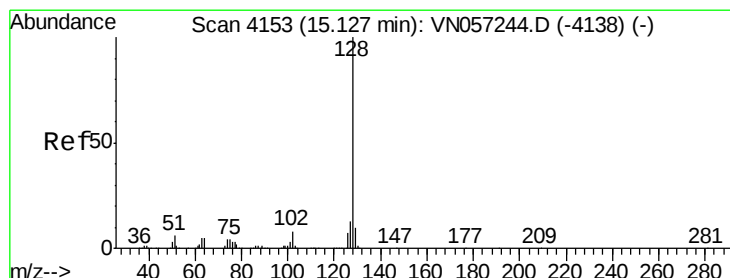
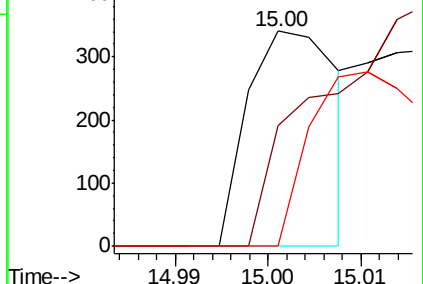
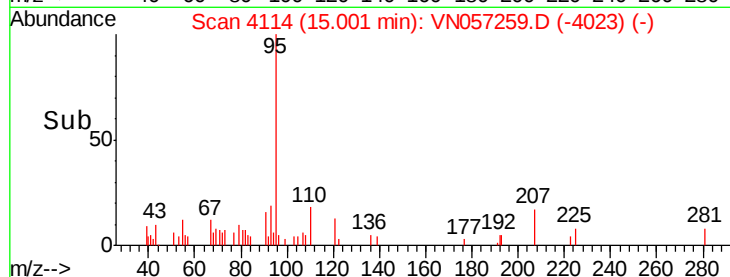
227 99.1 31.4 94.3#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.610 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

Lab File: VN057259.D

Acq: 13 Aug 2019 20:37

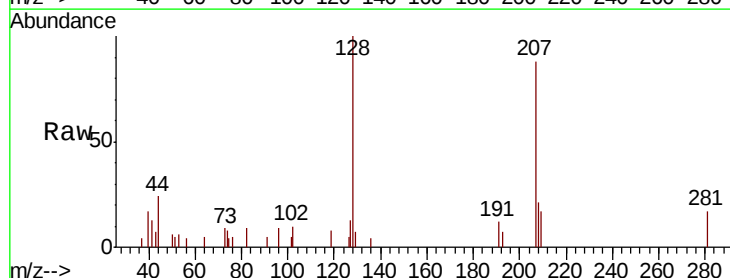
Tgt Ion:128 Resp: 5919

Ion Ratio Lower Upper

128 100

127 6.5 10.4 15.6#

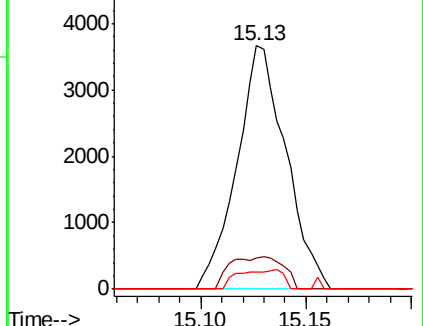
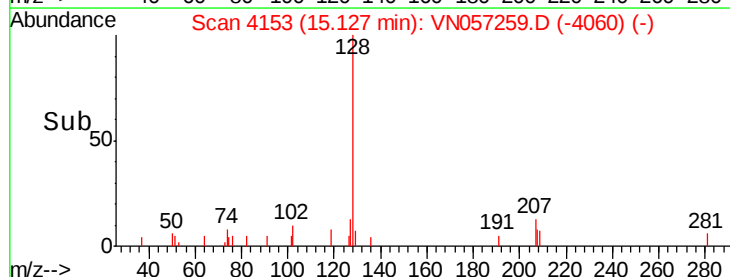
129 7.3 8.5 12.7#

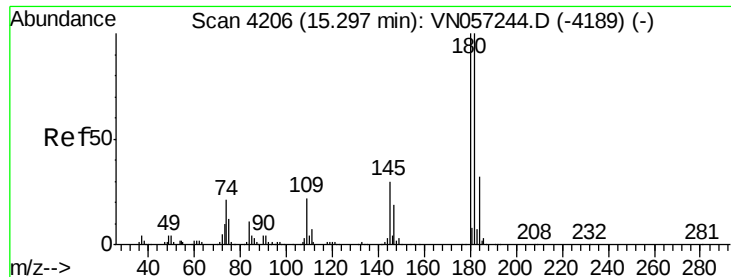


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 4.465 ug/l
 RT: 15.30 min Scan# 4207
 Delta R.T. 0.00 min
 Lab File: VN057259.D
 Acq: 13 Aug 2019 20:37

Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK

Tgt Ion	Ratio	Lower	Upper
180	100		
182	85.0	48.9	146.7
145	17.8	15.0	45.1

