

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\
 Data File : VN056162.D
 Acq On : 10 Jun 2019 12:02
 Operator : JC/SP
 Sample : K3203-10DL 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 11 02:18:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	319628	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	489789	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	477463	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	158453	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	169382	53.37	ug/l	0.00
Spiked Amount						
			Recovery	=	106.74%	
35) Dibromofluoromethane	7.59	113	157319	52.35	ug/l	0.00
Spiked Amount						
			Recovery	=	104.70%	
50) Toluene-d8	10.09	98	618438	53.48	ug/l	0.00
Spiked Amount						
			Recovery	=	106.96%	
62) 4-Bromofluorobenzene	12.40	95	202226	51.43	ug/l	0.00
Spiked Amount						
			Recovery	=	102.86%	

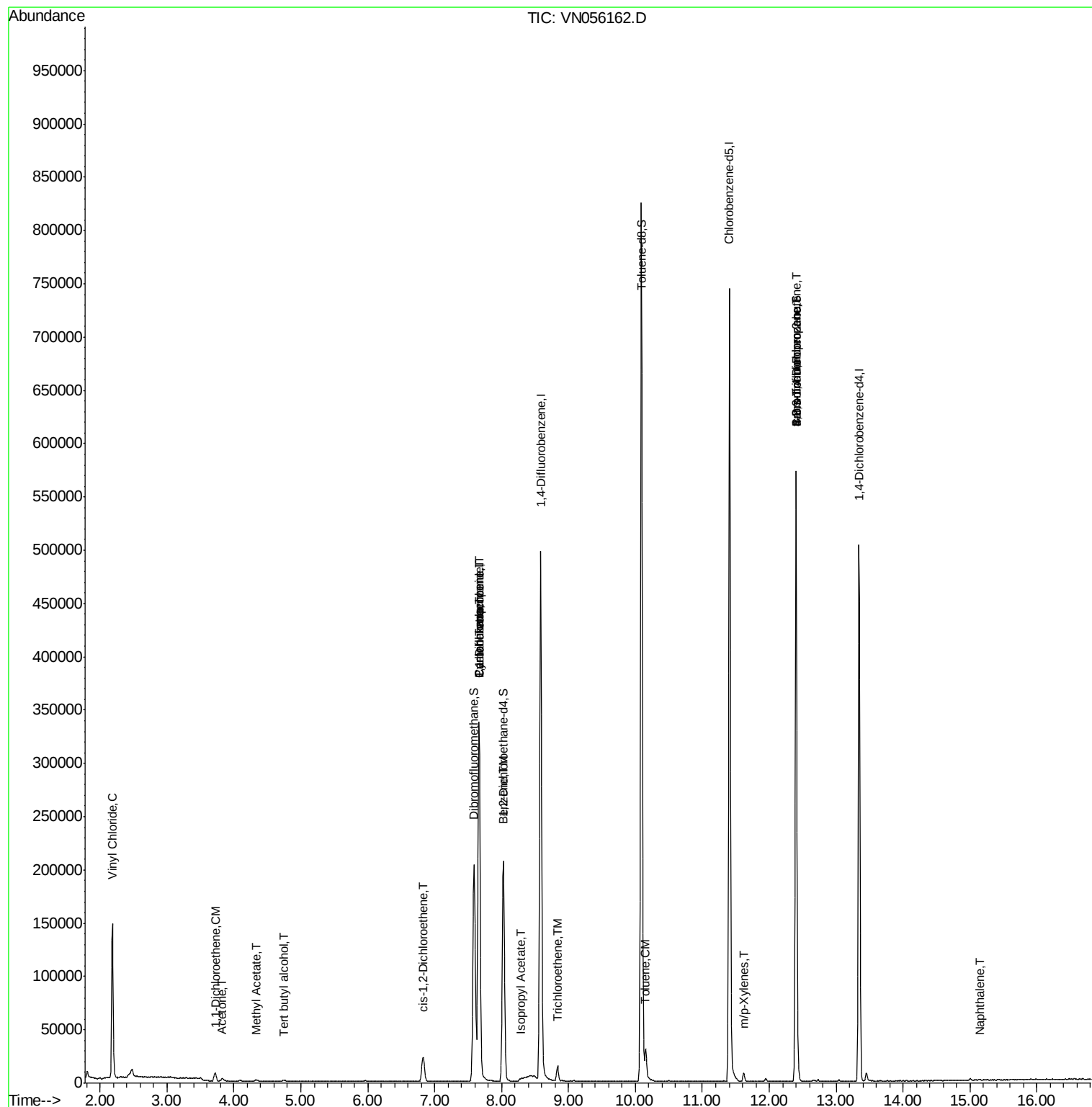
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.18	62	138673	39.900	ug/l	99
11) Tert butyl alcohol	4.74	59	596	1.079	ug/l #	74
12) 1,1-Dichloroethene	3.72	96	4525	1.686	ug/l	94
16) Acetone	3.82	43	4443	2.927	ug/l	90
18) Methyl Acetate	4.33	43	2724	0.339	ug/l #	72
27) cis-1,2-Dichloroethene	6.83	96	16674	4.934	ug/l	90
31) Cyclohexane	7.66	56	4817	0.957	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	18898	4.487	ug/l #	47
38) Carbon Tetrachloride	7.67	117	26616	6.855	ug/l #	14
40) Benzene	8.04	78	9206	0.720	ug/l	94
43) Isopropyl Acetate	8.28	43	1774	0.292	ug/l #	53
44) Trichloroethene	8.84	130	5822	1.584	ug/l	97
52) Toluene	10.15	92	11346	1.425	ug/l	97
68) m/p-Xylenes	11.62	106	2991	0.474	ug/l	86
71) Bromoform	12.40	173	1550	3.274	ug/l #	1
73) Isopropylbenzene	12.25	105	321	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	92327	31.666	ug/l #	100
79) 2-Chlorotoluene	12.59	91	514	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	92327	105.455	ug/l #	15
95) Naphthalene	15.14	128	909	3.962	ug/l #	69

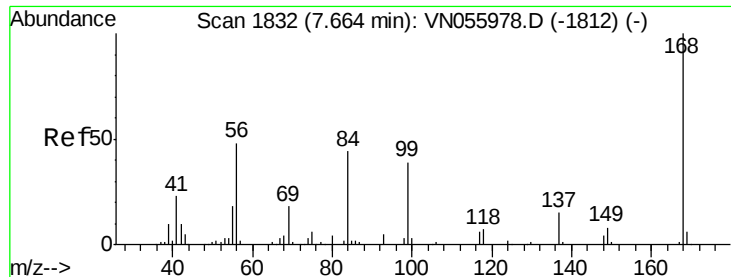
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN056162.D

Acq: 10 Jun 2019 12:02

Instrument :

MSVOA_N

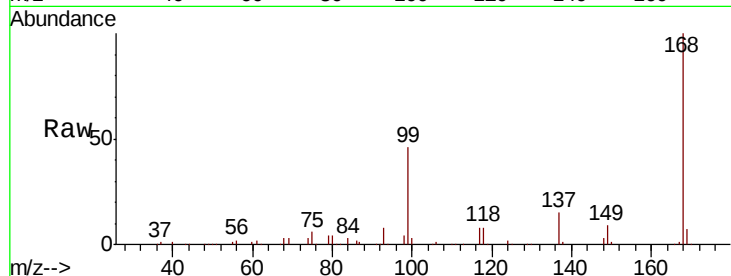
ClientSampled :

Tot Ion:168 Resp: 319628

Ion Ratio Lower Upper

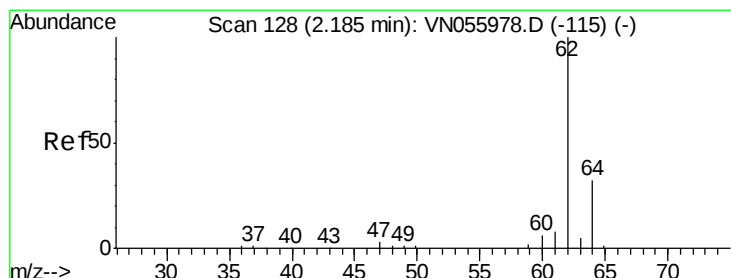
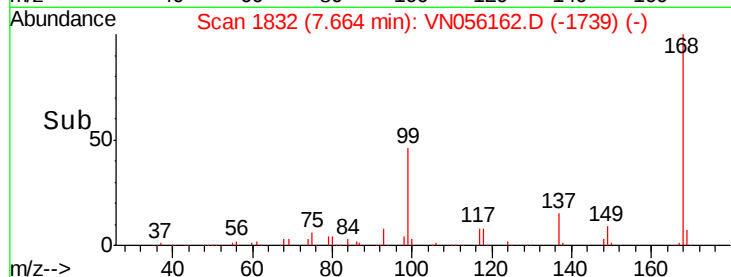
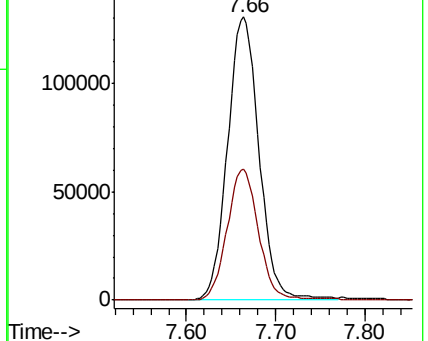
168 100

99 46.3 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#4

Vinyl Chloride

Concen: 39.900 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN056162.D

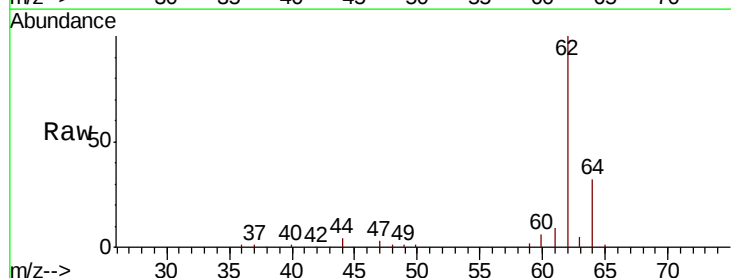
Acq: 10 Jun 2019 12:02

Tgt Ion: 62 Resp: 138673

Ion Ratio Lower Upper

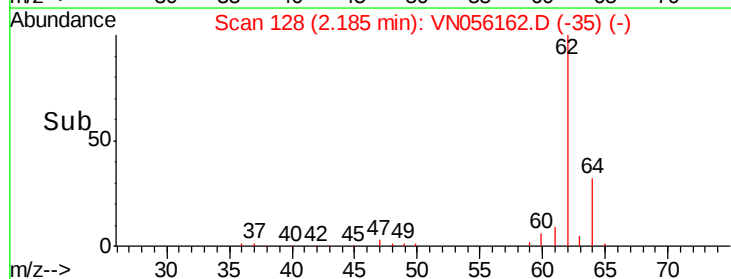
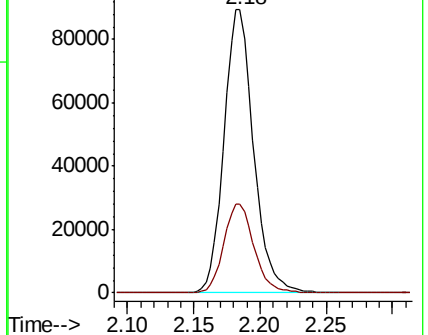
62 100

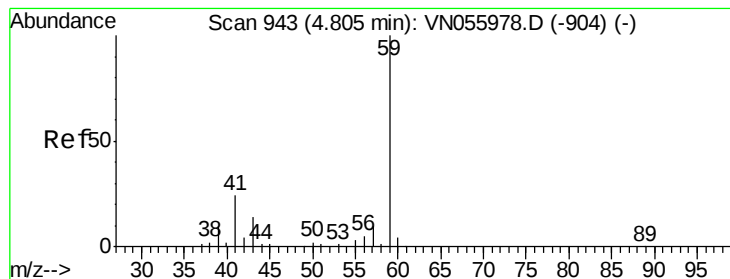
64 31.5 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VN

Ion 63.90 (63.60 to 64.60): VN



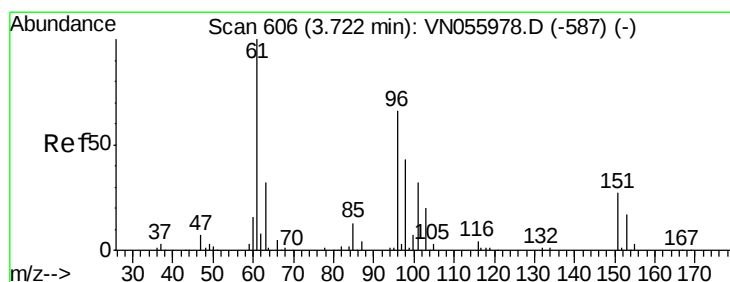
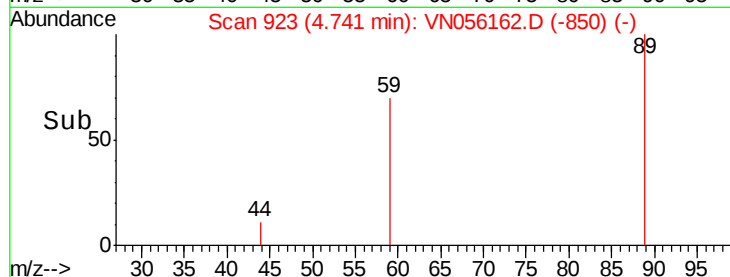
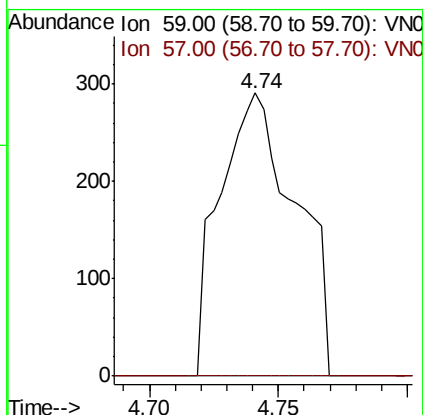
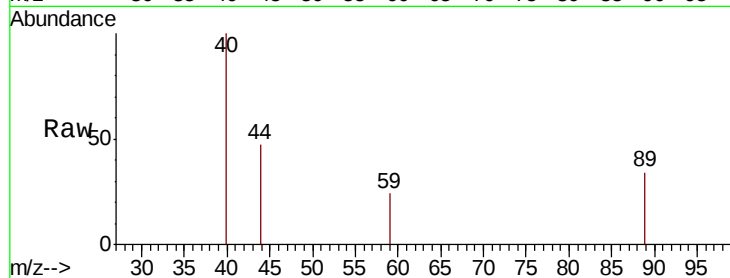


#11

Tert butyl alcohol
 Concen: 1.079 ug/l
 RT: 4.74 min Scan# 923
 Delta R.T. -0.06 min
 Lab File: VN056162.D
 Acq: 10 Jun 2019 12:02

Instrument :
 MSVOA_N
 ClientSampled :

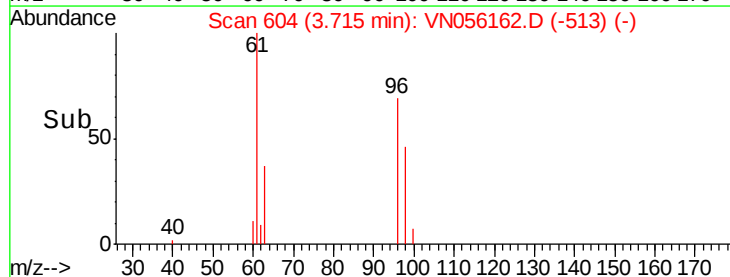
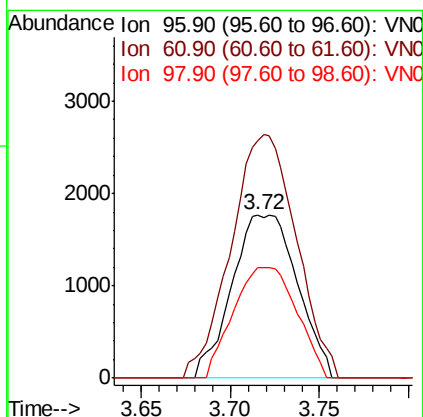
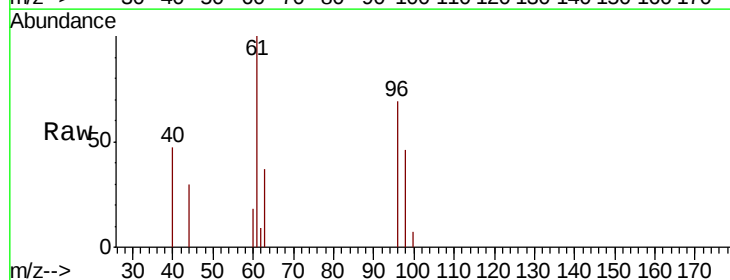
Tot Ion: 59 Resp: 596
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#



#12

1,1-Dichloroethene
 Concen: 1.686 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. -0.01 min
 Lab File: VN056162.D
 Acq: 10 Jun 2019 12:02

Tgt Ion: 96 Resp: 4525
 Ion Ratio Lower Upper
 96 100
 61 145.4 123.2 184.8
 98 67.4 50.4 75.6





#16

Acetone

Concen: 2.927 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056162.D

Acq: 10 Jun 2019 12:02

Instrument :

MSVOA_N

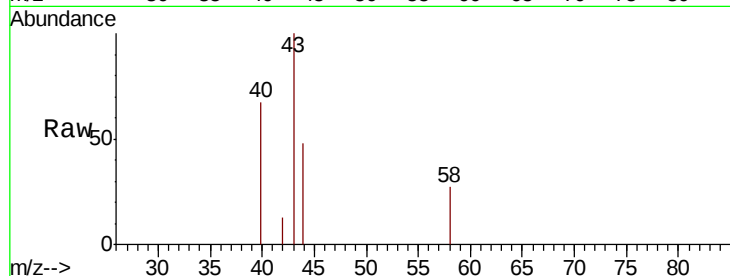
ClientSampleId :

Tot Ion: 43 Resp: 4443

Ion Ratio Lower Upper

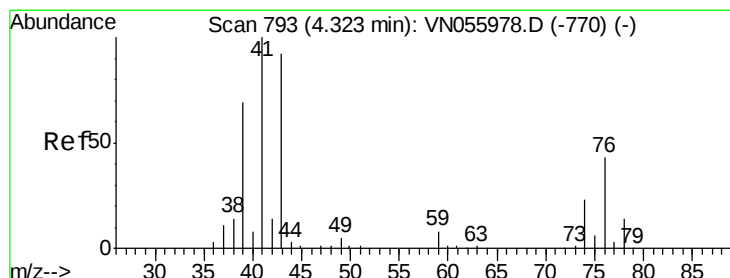
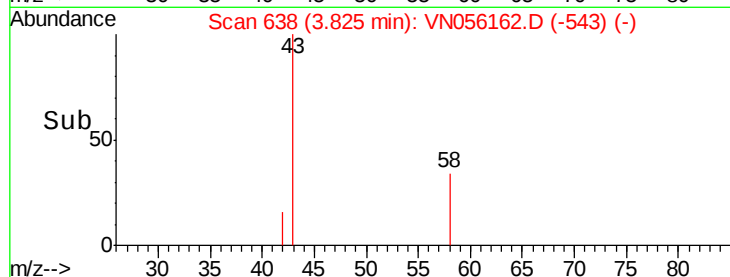
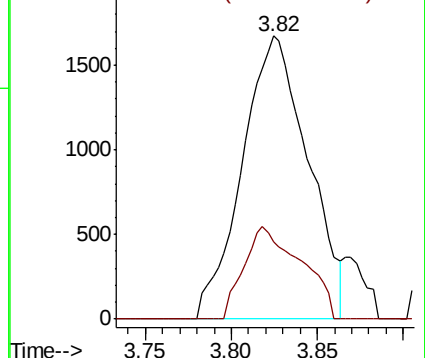
43 100

58 27.3 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.339 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN056162.D

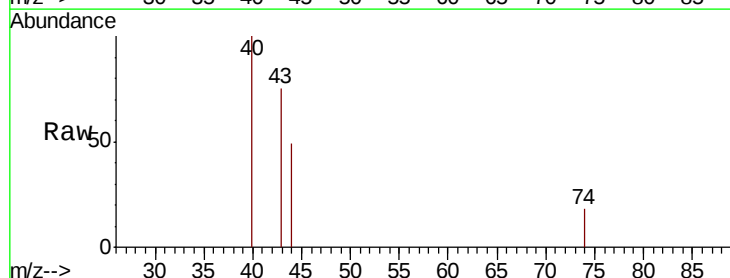
Acq: 10 Jun 2019 12:02

Tgt Ion: 43 Resp: 2724

Ion Ratio Lower Upper

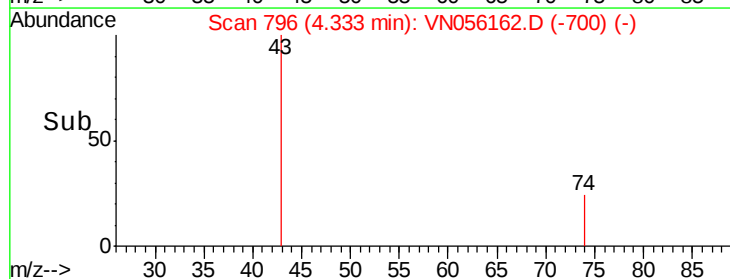
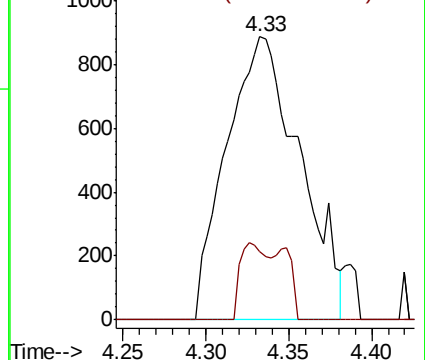
43 100

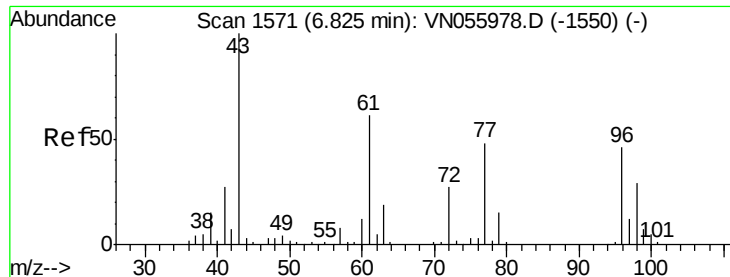
74 10.5 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#27

cis-1,2-Dichloroethene

Concen: 4.934 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN056162.D

Acq: 10 Jun 2019 12:02

Instrument :

MSVOA_N

ClientSampled :

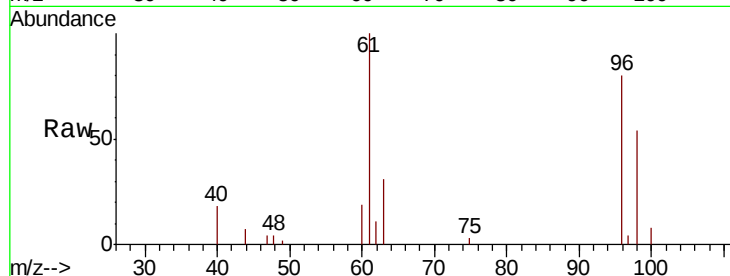
Tot Ion: 96 Resp: 16674

Ion Ratio Lower Upper

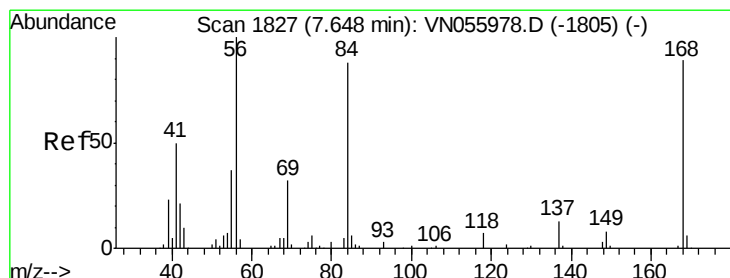
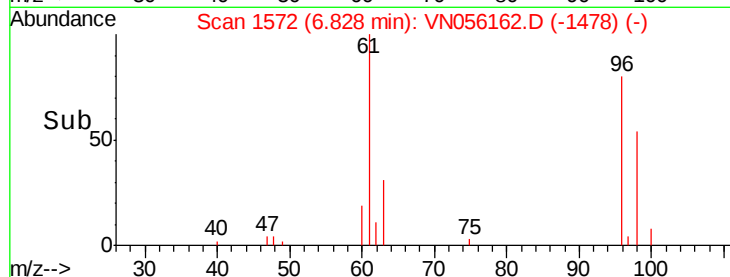
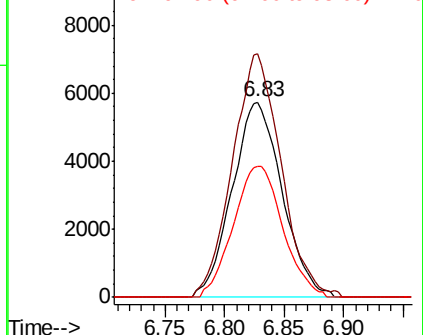
96 100

61 121.5 0.0 275.8

98 66.4 0.0 128.4



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



#31

Cyclohexane

Concen: 0.957 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN056162.D

Acq: 10 Jun 2019 12:02

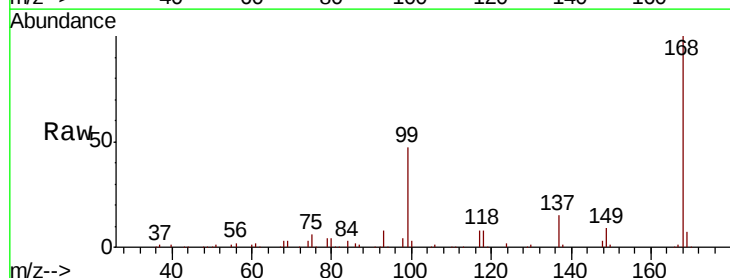
Tgt Ion: 56 Resp: 4817

Ion Ratio Lower Upper

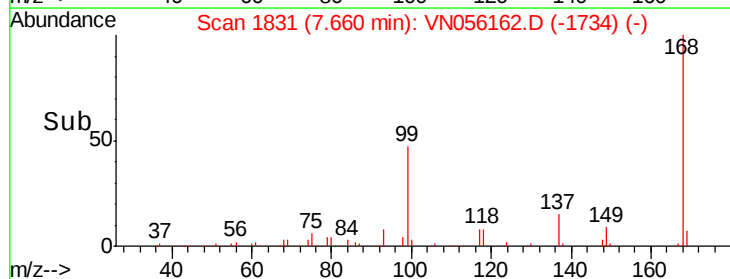
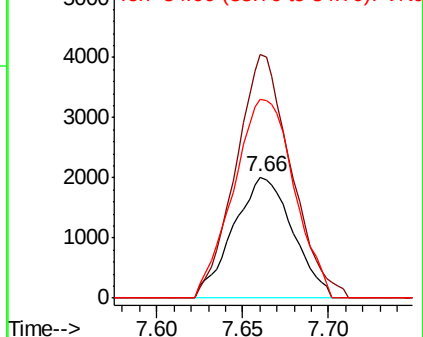
56 100

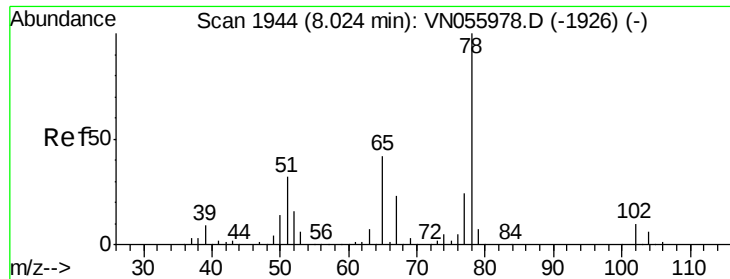
69 201.5 25.6 38.4#

84 164.3 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 53.372 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056162.D

Acq: 10 Jun 2019 12:02

Instrument :

MSVOA_N

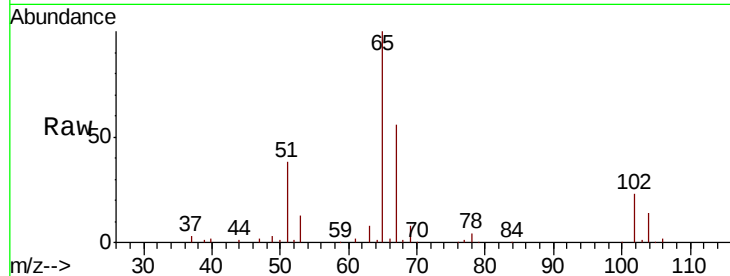
ClientSampled :

Tot Ion: 65 Resp: 169382

Ion Ratio Lower Upper

65 100

67 55.0 0.0 109.2

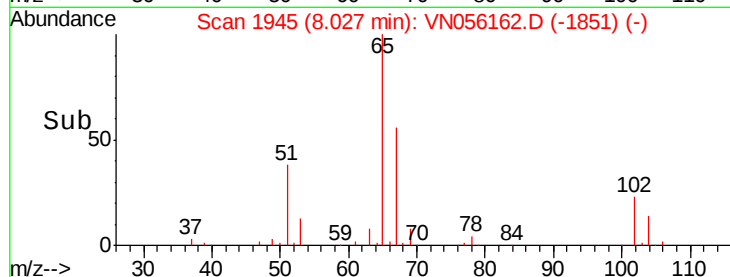


Abundance Ion 64.90 (64.60 to 65.60): VN055978.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN055978.D (-1926) (-)

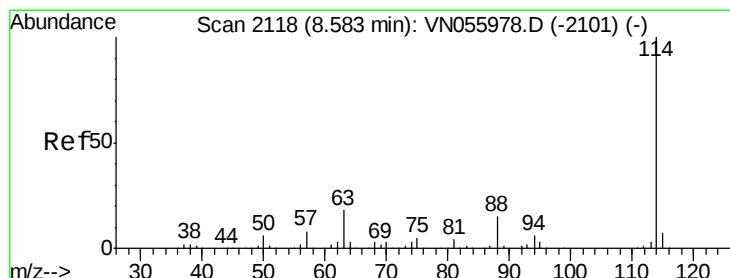
8.03

8.10



8.03

8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN056162.D

Acq: 10 Jun 2019 12:02

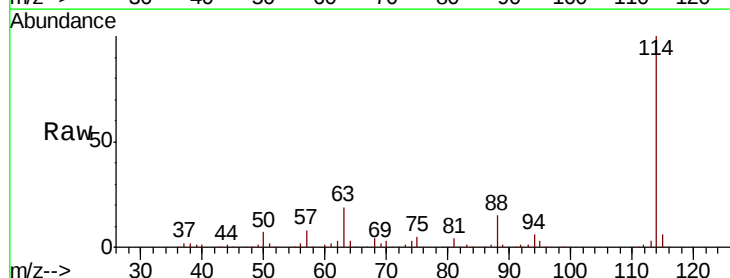
Tgt Ion: 114 Resp: 489789

Ion Ratio Lower Upper

114 100

63 18.8 0.0 39.2

88 15.1 0.0 31.0



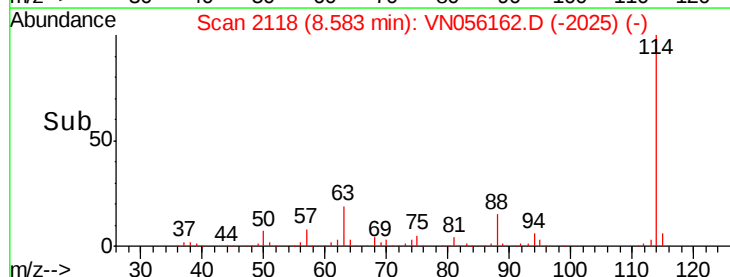
Abundance Ion 113.90 (113.60 to 114.60): VN055978.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN055978.D (-2101) (-)

Ion 87.90 (87.60 to 88.60): VN055978.D (-2101) (-)

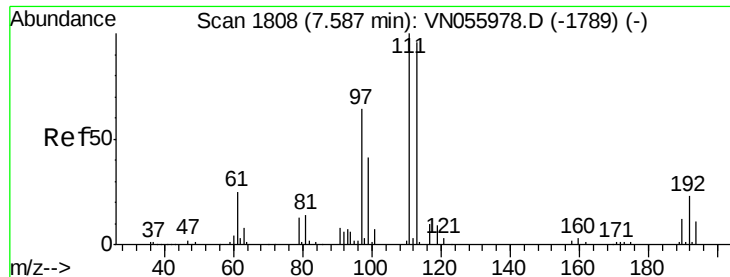
8.58

8.70



8.58

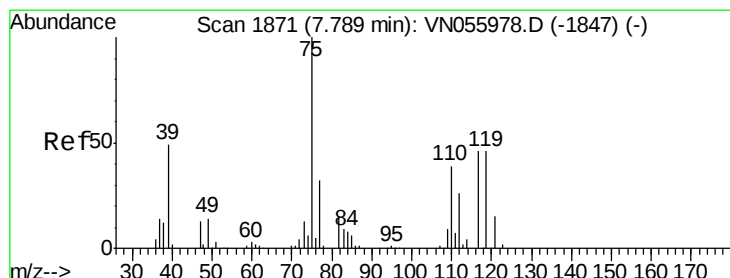
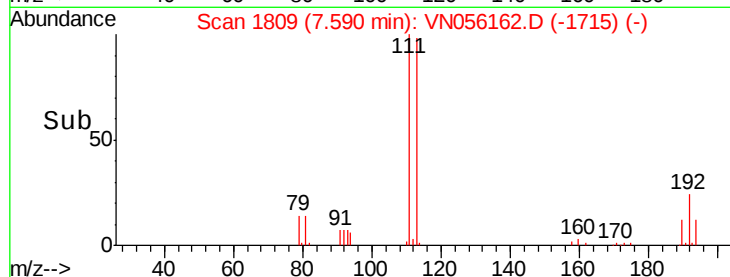
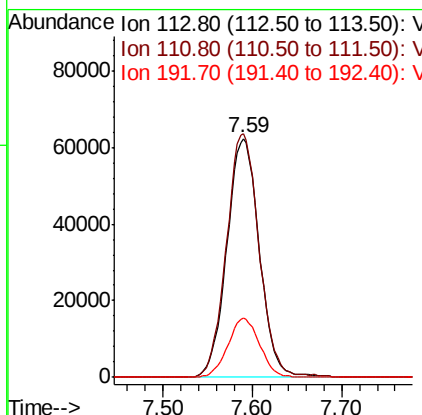
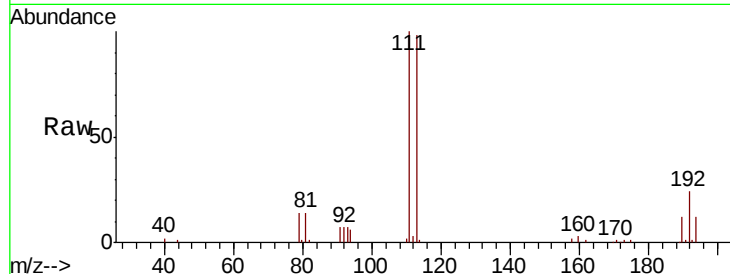
8.70



#35
 Dibromofluoromethane
 Concen: 52.352 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056162.D
 Acq: 10 Jun 2019 12:02

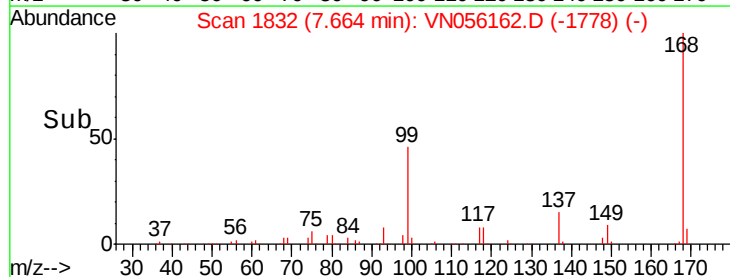
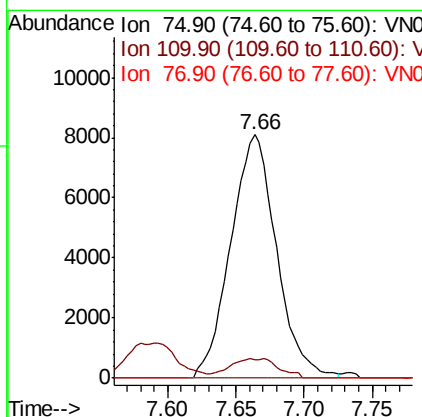
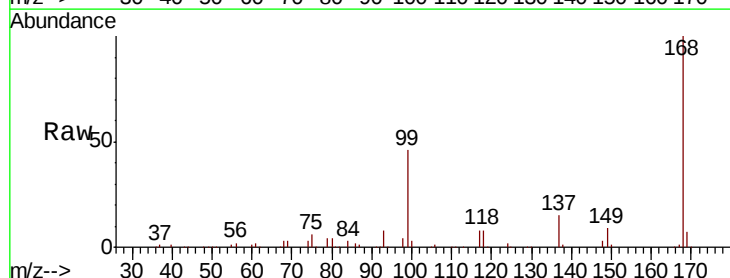
Instrument :
 MSVOA_N
 ClientSampleId :

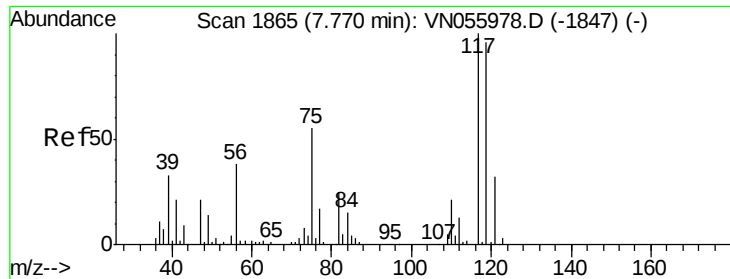
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.9	122.9
192	24.3	19.5	29.3



#36
 1,1-Dichloropropene
 Concen: 4.487 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056162.D
 Acq: 10 Jun 2019 12:02

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	19.0	57.0#
77	0.0	25.1	37.7#

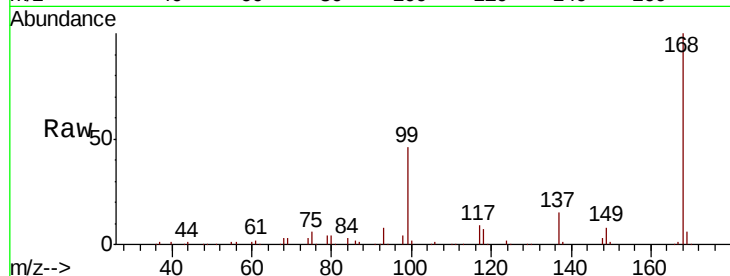




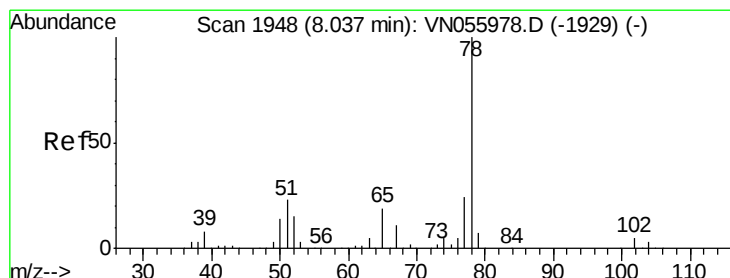
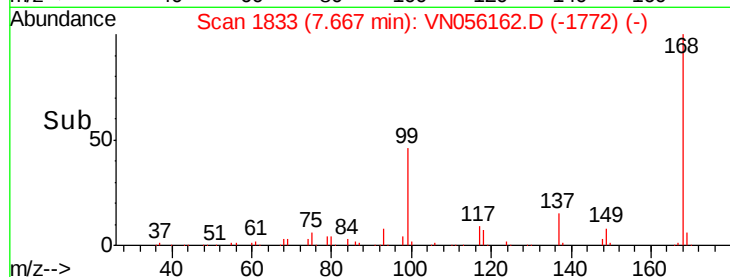
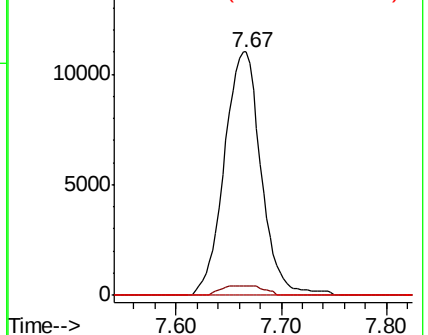
#38
Carbon Tetrachloride
Concen: 6.855 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.10 min
Lab File: VN056162.D
Acq: 10 Jun 2019 12:02

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 26616
Ion Ratio Lower Upper
117 100
119 4.0 79.0 118.6#
121 0.0 24.7 37.1#

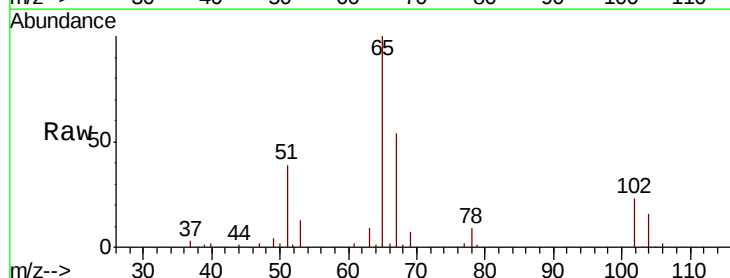


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

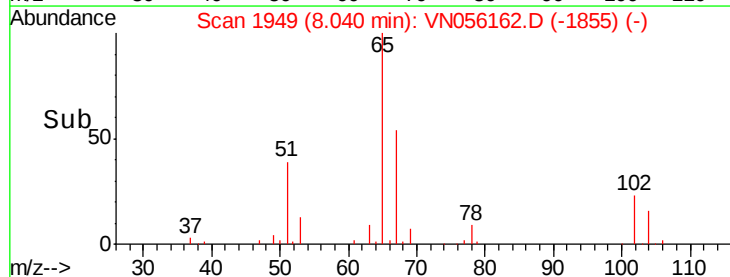
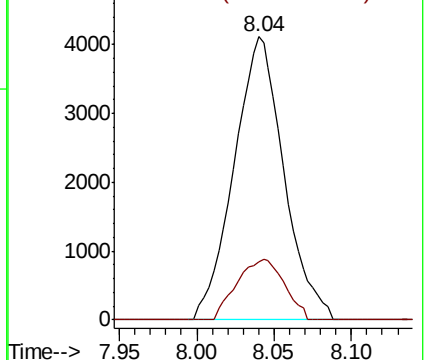


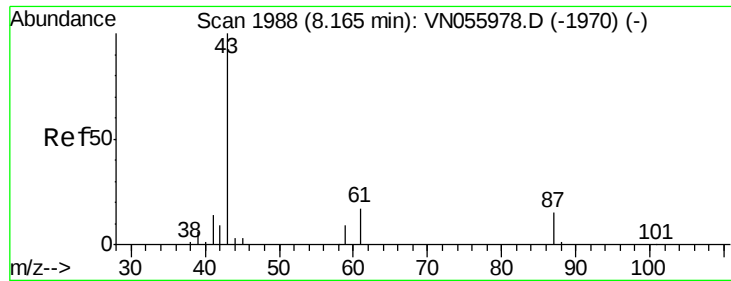
#40
Benzene
Concen: 0.720 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN056162.D
Acq: 10 Jun 2019 12:02

Tgt Ion: 78 Resp: 9206
Ion Ratio Lower Upper
78 100
77 20.4 18.8 28.2



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





#43

Isopropyl Acetate

Concen: 0.292 ug/l

RT: 8.28 min Scan# 2024

Delta R.T. 0.12 min

Lab File: VN056162.D

Acq: 10 Jun 2019 12:02

Instrument :

MSVOA_N

ClientSampled :

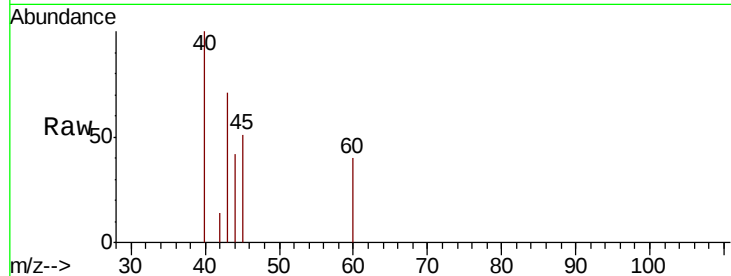
Tot Ion: 43 Resp: 1774

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#

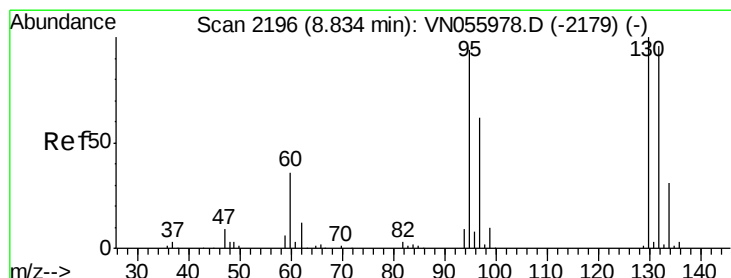
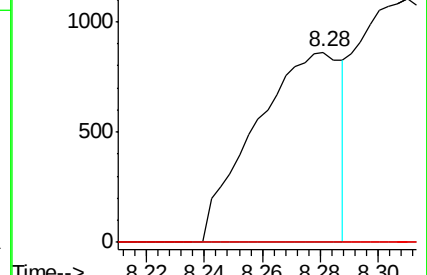
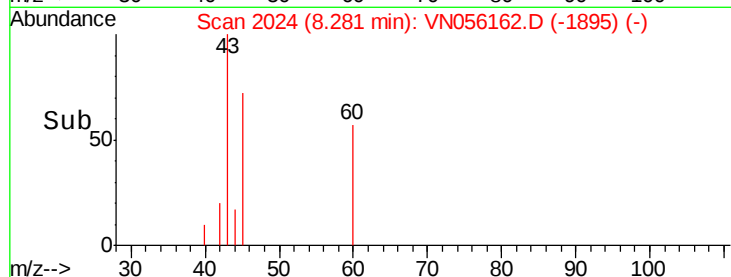


Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN055978.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN055978.D (-1970) (-)

Time-->



#44

Trichloroethene

Concen: 1.584 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN056162.D

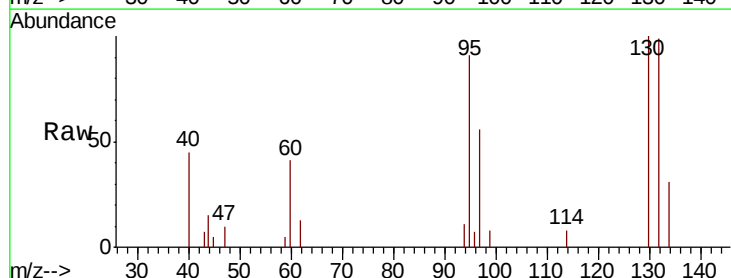
Acq: 10 Jun 2019 12:02

Tgt Ion: 130 Resp: 5822

Ion Ratio Lower Upper

130 100

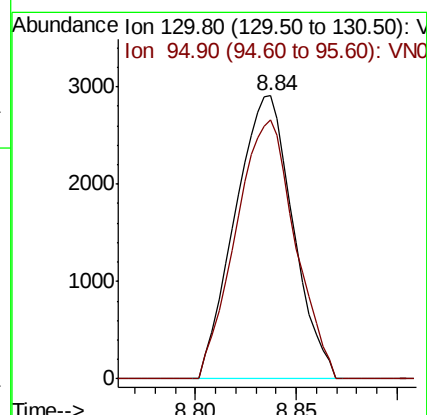
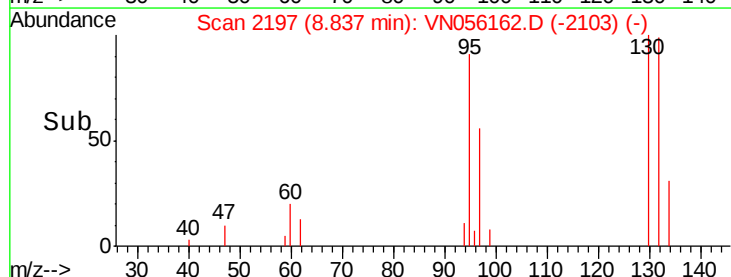
95 91.4 0.0 188.0

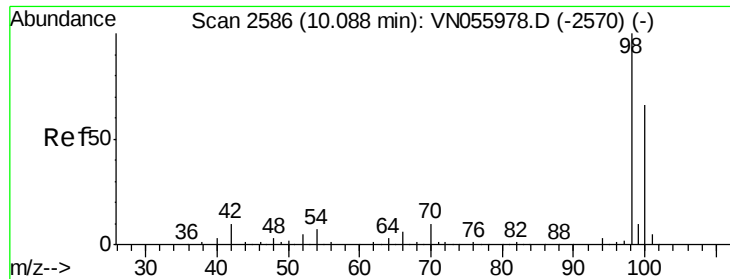


Abundance Ion 129.80 (129.50 to 130.50): VN055978.D (-2179) (-)

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

Time-->





#50

Toluene-d8

Concen: 53.483 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN056162.D

Acq: 10 Jun 2019 12:02

Instrument :

MSVOA_N

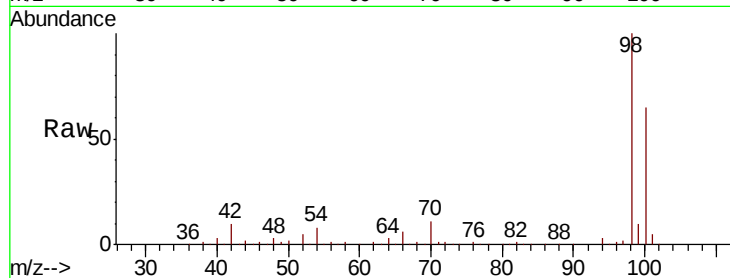
ClientSampleId :

Tot Ion: 98 Resp: 618438

Ion Ratio Lower Upper

98 100

100 64.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)

10.09

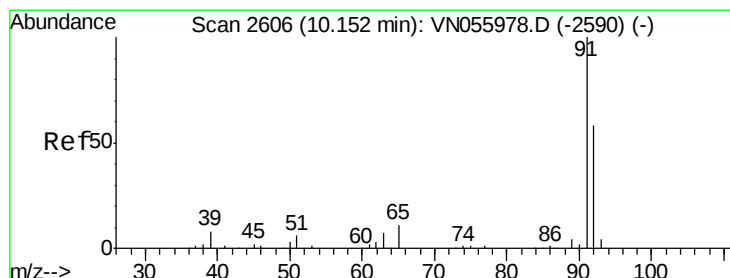
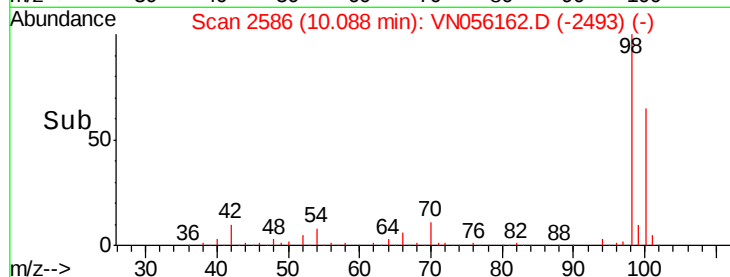
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 1.425 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN056162.D

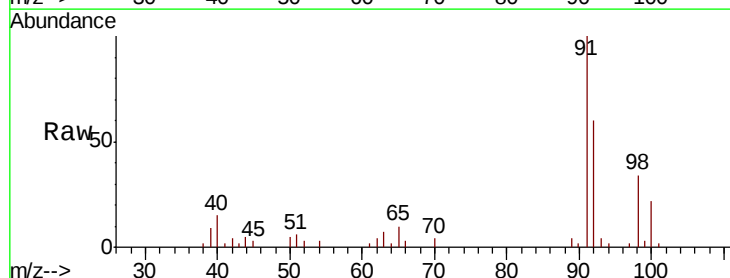
Acq: 10 Jun 2019 12:02

Tgt Ion: 92 Resp: 11346

Ion Ratio Lower Upper

92 100

91 170.8 139.4 209.2



Abundance Ion 92.00 (91.70 to 92.70): VN055978.D (-2590) (-)

Ion 91.00 (90.70 to 91.70): VN055978.D (-2590) (-)

12000

10000

8000

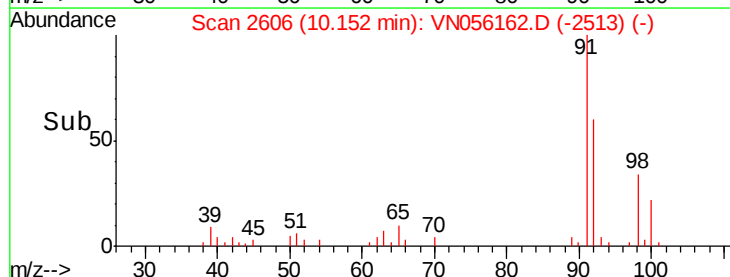
6000

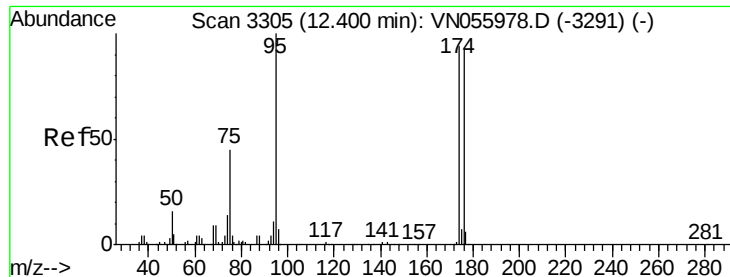
4000

2000

0

Time-->

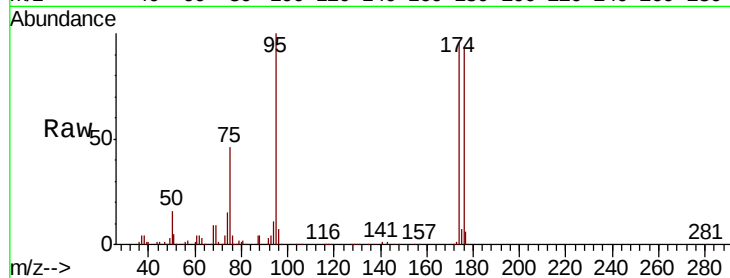




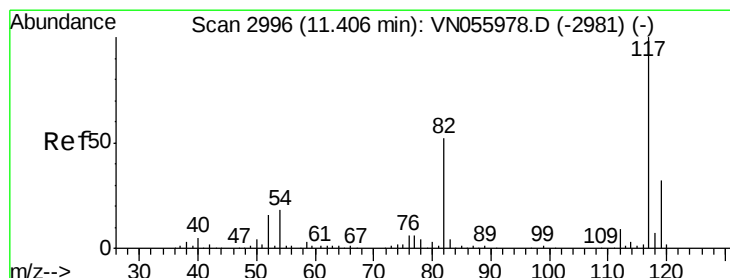
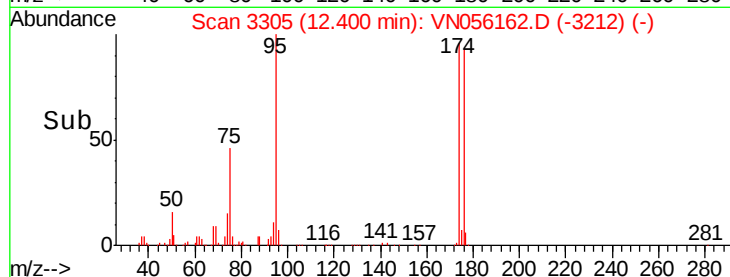
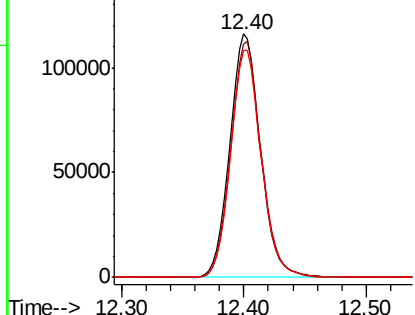
#62
4-Bromofluorobenzene
Concen: 51.426 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056162.D
Acq: 10 Jun 2019 12:02

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
95	100		
174	96.6	0.0	191.0
176	93.3	0.0	185.2

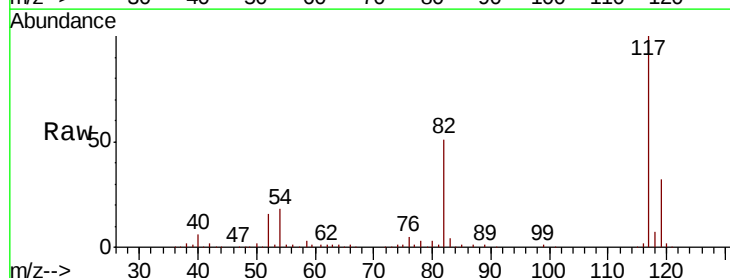


Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)
Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)
Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)

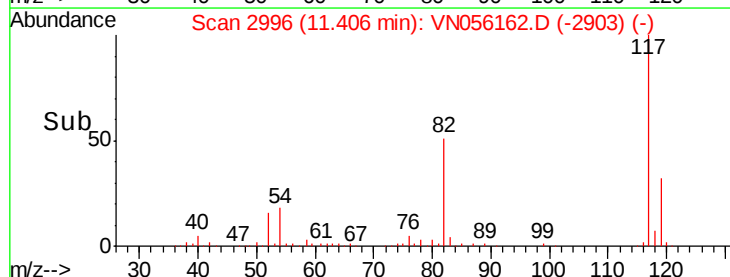
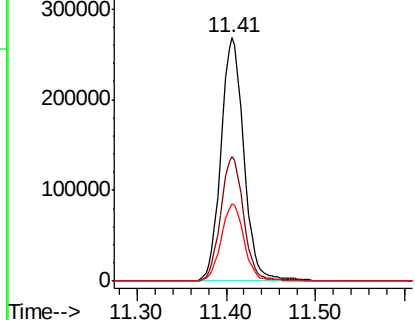


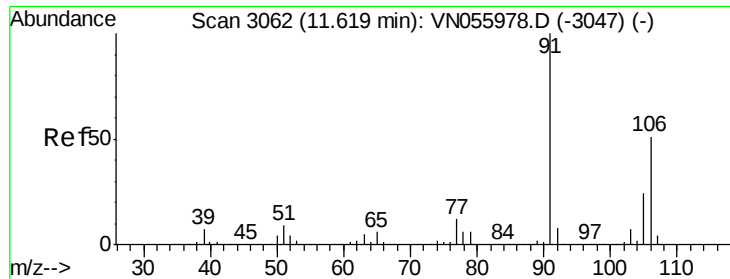
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056162.D
Acq: 10 Jun 2019 12:02

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.1	41.8	62.8
119	31.7	25.4	38.0



Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)
Ion 82.00 (81.70 to 82.70): VN055978.D (-2981) (-)
Ion 118.90 (118.60 to 119.60): VN055978.D (-2981) (-)

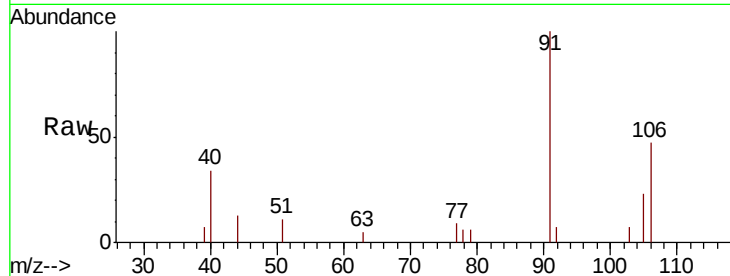




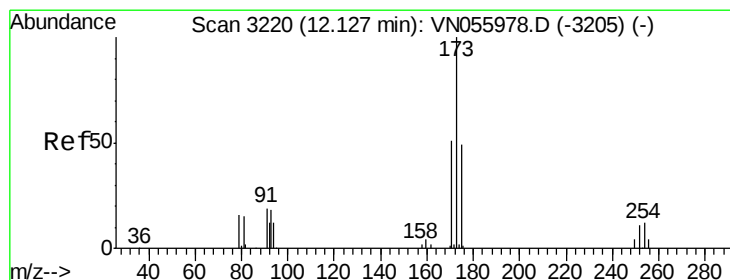
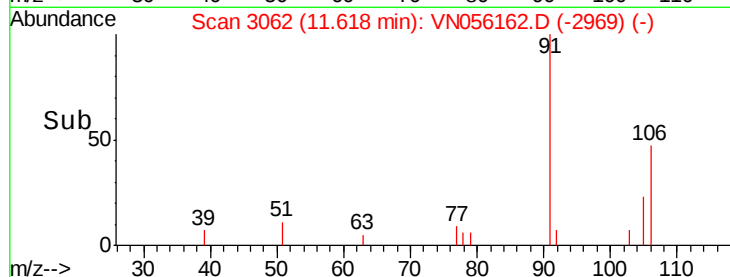
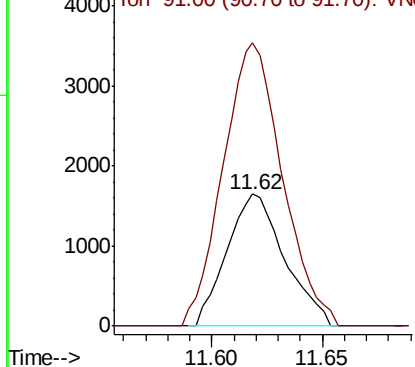
#68
m/p-Xvlenes
Concen: 0.474 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN056162.D
Acq: 10 Jun 2019 12:02

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:106 Resp: 2991
Ion Ratio Lower Upper
106 100
91 220.7 159.3 238.9

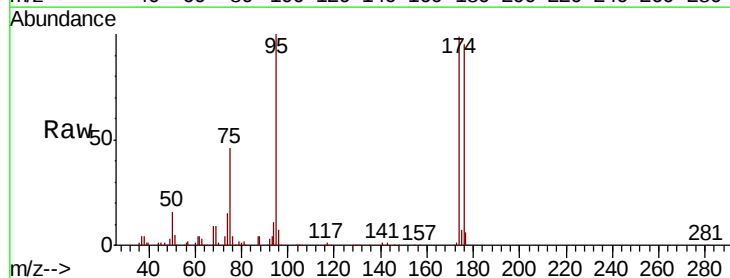


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

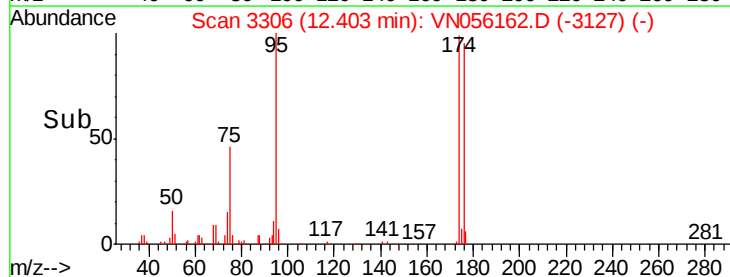
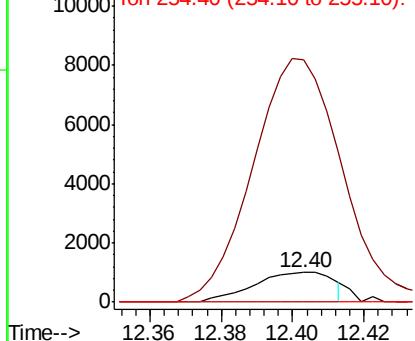


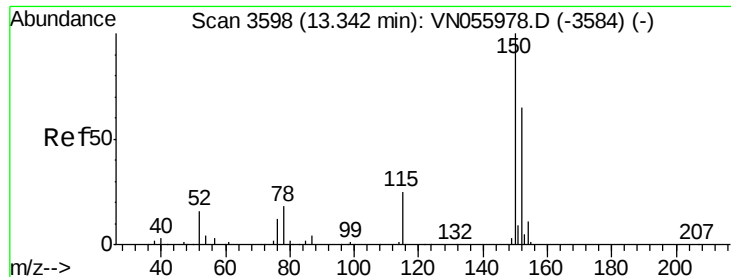
#71
Bromoform
Concen: 3.274 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN056162.D
Acq: 10 Jun 2019 12:02

Tgt Ion:173 Resp: 1550
Ion Ratio Lower Upper
173 100
175 797.1 24.3 72.8#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



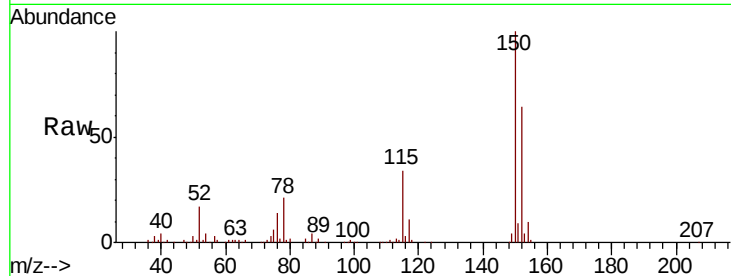


#72

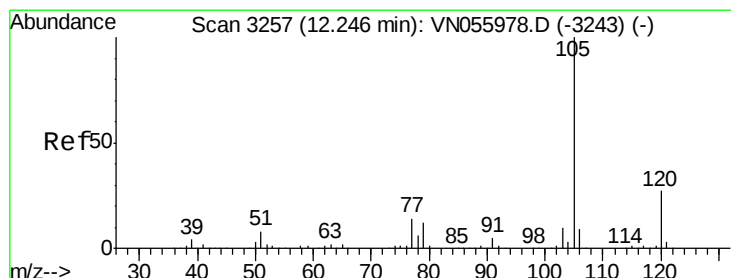
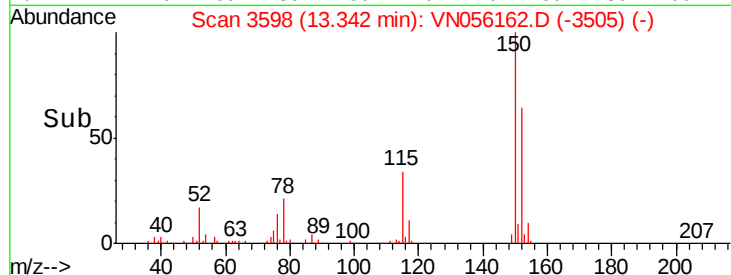
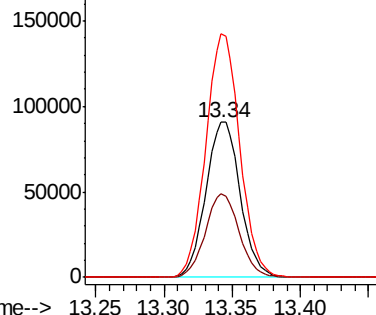
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN056162.D
Acq: 10 Jun 2019 12:02

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	53.0	27.0	81.0
150	155.1	0.0	343.2



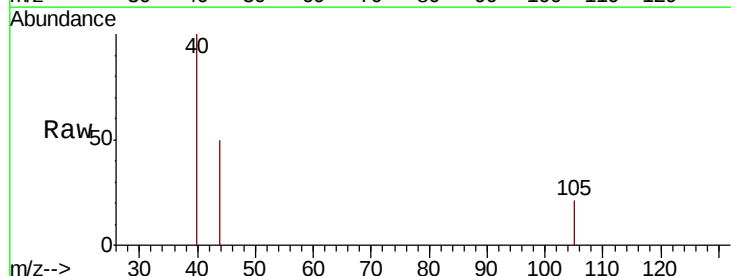
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



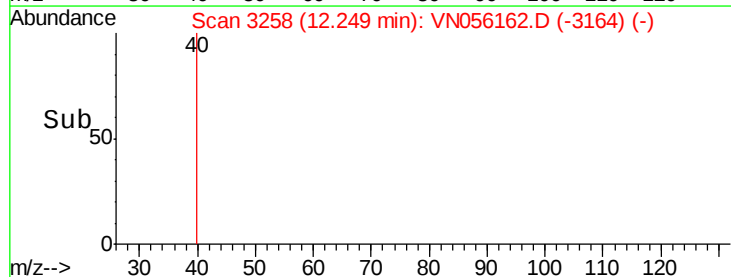
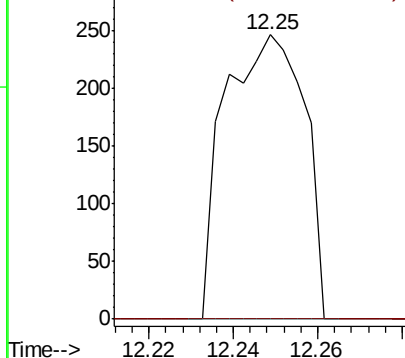
#73

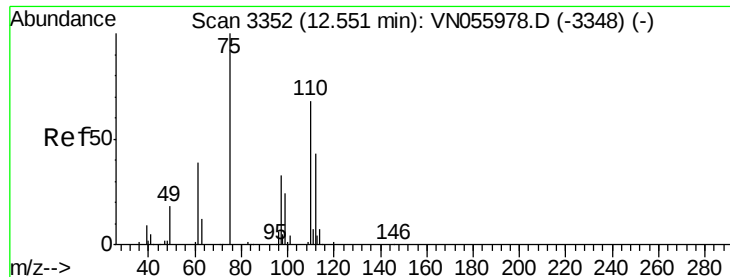
Isopropylbenzene
Concen: Below Cal
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN056162.D
Acq: 10 Jun 2019 12:02

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	13.6	40.7#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 31.666 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056162.D

Acq: 10 Jun 2019 12:02

Instrument :

MSVOA_N

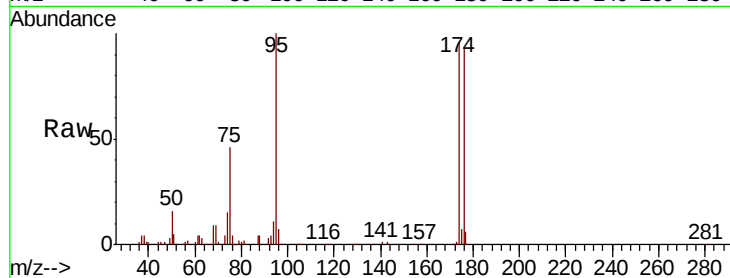
ClientSampled :

Tot Ion: 75 Resp: 92327

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

60000

50000

40000

30000

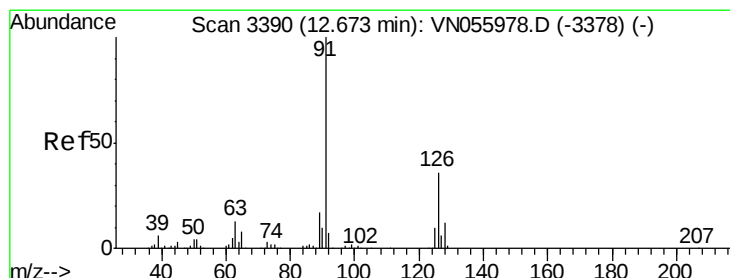
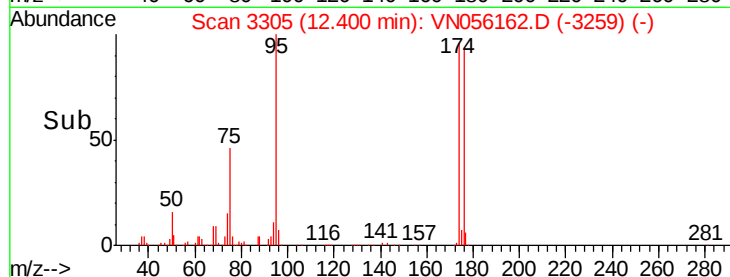
20000

10000

0

12.35 12.40 12.45 12.50

Time-->



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3365

Delta R.T. -0.08 min

Lab File: VN056162.D

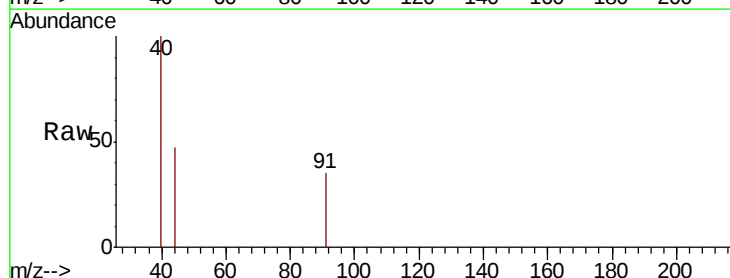
Acq: 10 Jun 2019 12:02

Tgt Ion: 91 Resp: 514

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

500

400

300

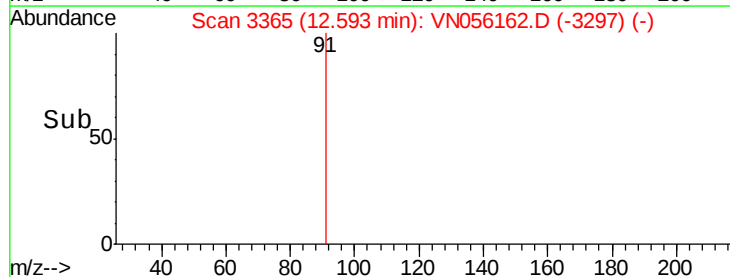
200

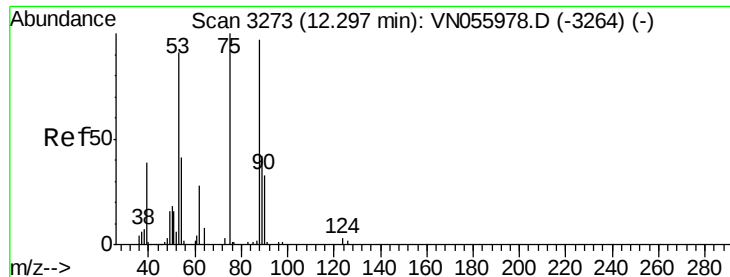
100

0

12.56 12.58 12.60 12.62

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 105.455 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056162.D

Acq: 10 Jun 2019 12:02

Instrument :

MSVOA_N

ClientSampleId :

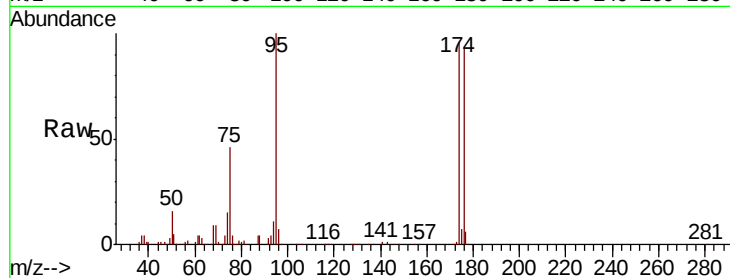
Tot Ion: 75 Resp: 92327

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

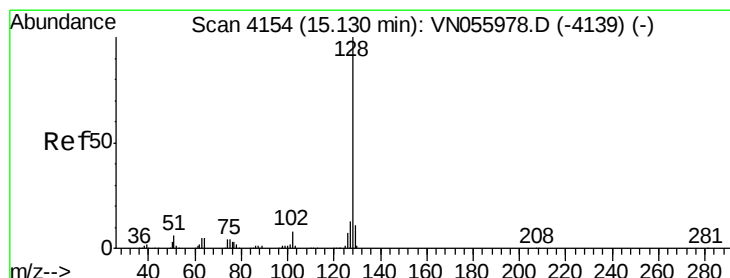
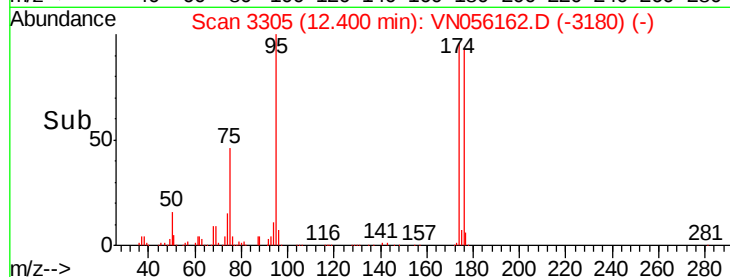
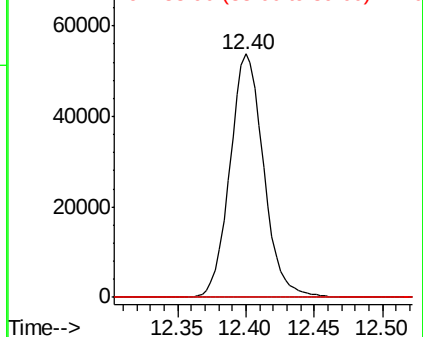
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN055978.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN055978.D (-3264) (-)



#95

Naphthalene

Concen: 3.962 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056162.D

Acq: 10 Jun 2019 12:02

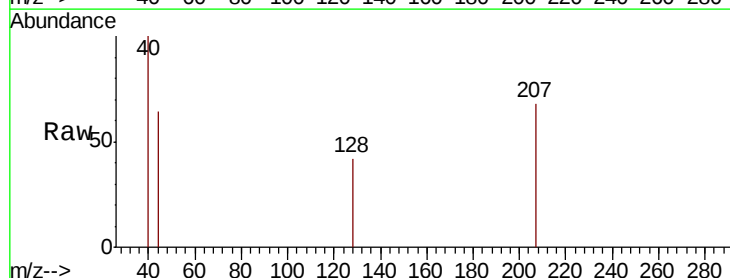
Tgt Ion: 128 Resp: 909

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VN055978.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN055978.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN055978.D (-4139) (-)

