

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022520\
 Data File : VN060241.D
 Acq On : 25 Feb 2020 17:52
 Operator : JC/MD
 Sample : L1670-13DL 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 25 22:21:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	220895	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	352724	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	337354	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	175115	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	134810	50.15	ug/l	0.00
Spiked Amount						
			Recovery	=	100.30%	
35) Dibromofluoromethane	7.57	113	103499	47.74	ug/l	0.00
Spiked Amount						
			Recovery	=	95.48%	
50) Toluene-d8	10.08	98	433091	50.72	ug/l	0.00
Spiked Amount						
			Recovery	=	101.44%	
62) 4-Bromofluorobenzene	12.40	95	172391	54.95	ug/l	0.00
Spiked Amount						
			Recovery	=	109.90%	

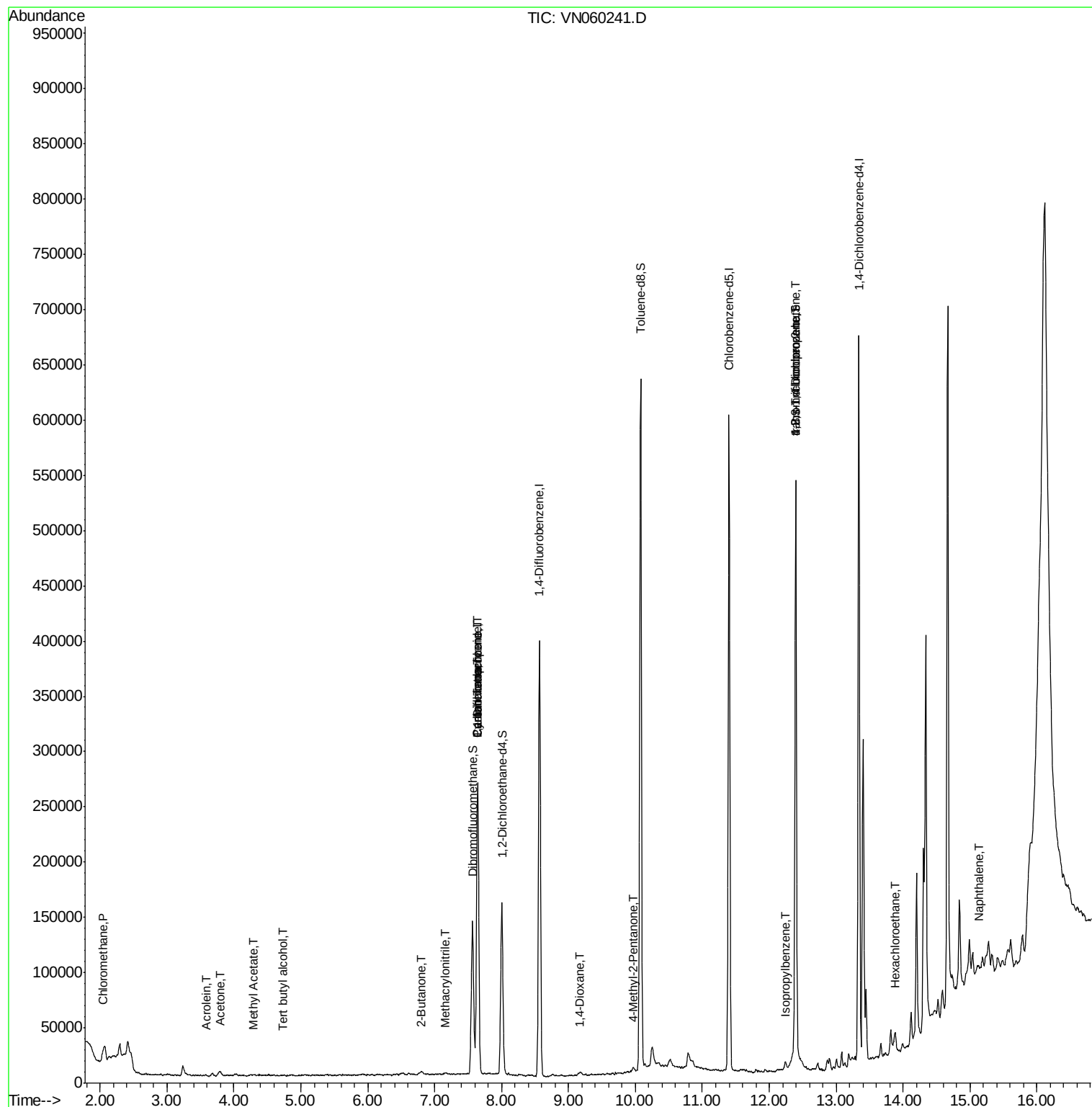
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1009	0.384	ug/l	89
11) Tert butyl alcohol	4.73	59	130	0.323	ug/l #	72
13) Acrolein	3.58	56	280	0.704	ug/l #	73
16) Acetone	3.79	43	7084	6.042	ug/l	96
18) Methyl Acetate	4.29	43	710	0.322	ug/l #	84
25) 2-Butanone	6.80	43	1636	1.109	ug/l	97
31) Cyclohexane	7.65	56	5010	1.318	ug/l #	32
36) 1,1-Dichloropropene	7.64	75	17302	5.296	ug/l #	48
38) Carbon Tetrachloride	7.64	117	21662	6.105	ug/l #	16
41) Methacrylonitrile	7.16	41	460	0.371	ug/l #	100
49) 1,4-Dioxane	9.18	88	1987	51.353	ug/l #	75
51) 4-Methyl-2-Pentanone	9.97	43	2505	0.857	ug/l #	85
73) Isopropylbenzene	12.25	105	2933	0.224	ug/l	100
76) 1,2,3-Trichloropropane	12.40	75	87237	26.038	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	87237	63.755	ug/l #	12
90) Hexachloroethane	13.89	117	786	0.365	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	14.27	75	37	Below Cal	#	1
95) Naphthalene	15.13	128	2926	0.328	ug/l	96

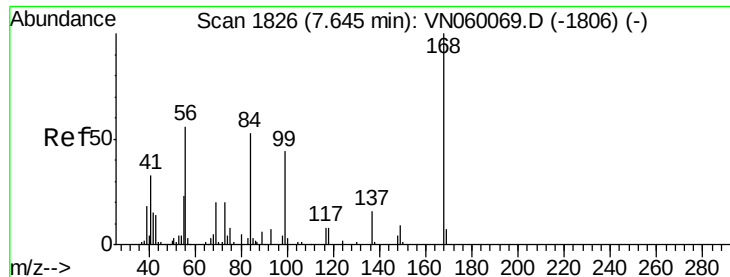
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 25 22:21:59 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 12 14:12:21 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060241.D

Acq: 25 Feb 2020 17:52

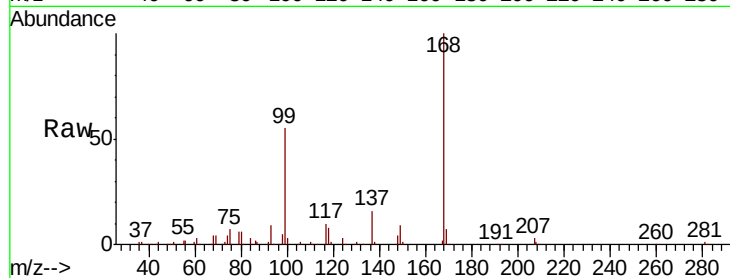
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 220895

Ion Ratio Lower Upper

168 100

99 55.4 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

100000

80000

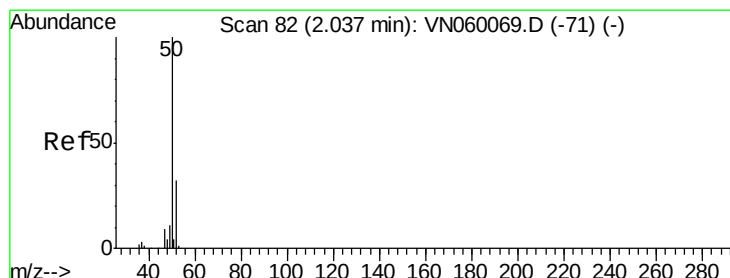
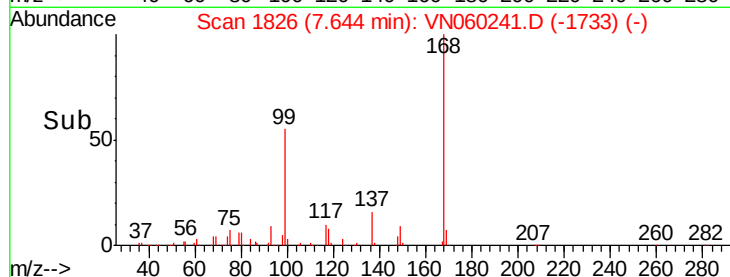
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.384 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN060241.D

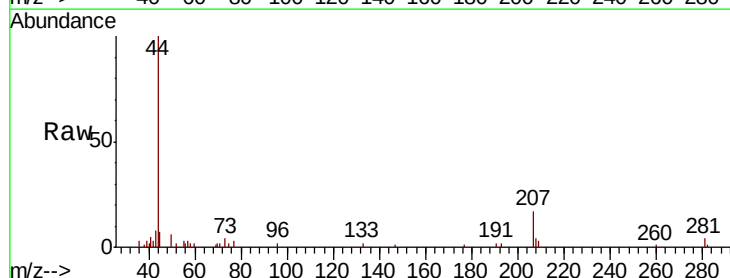
Acq: 25 Feb 2020 17:52

Tgt Ion: 50 Resp: 1009

Ion Ratio Lower Upper

50 100

52 38.3 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

800

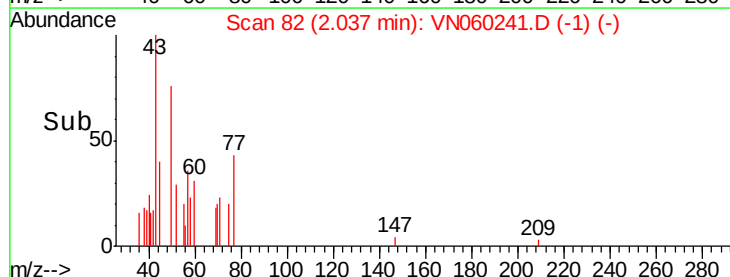
600

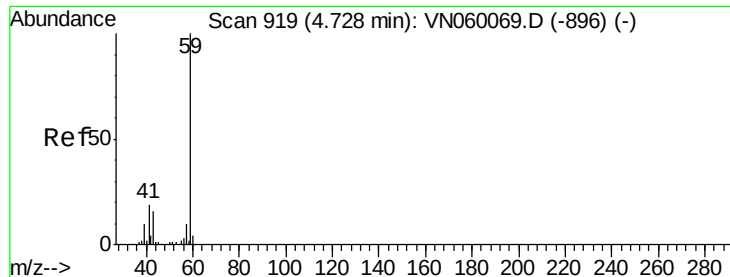
400

200

0

Time-->

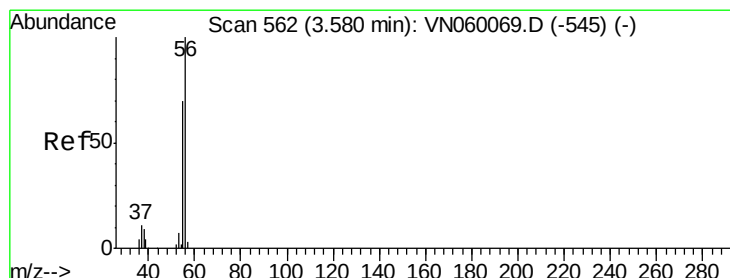
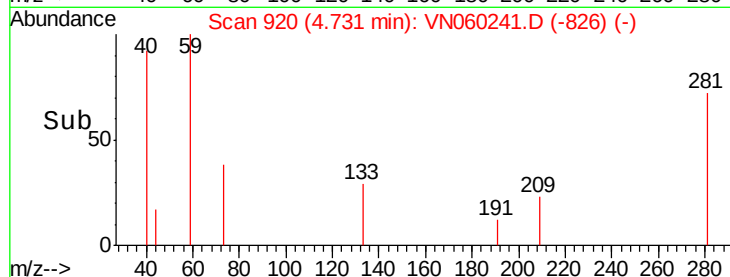
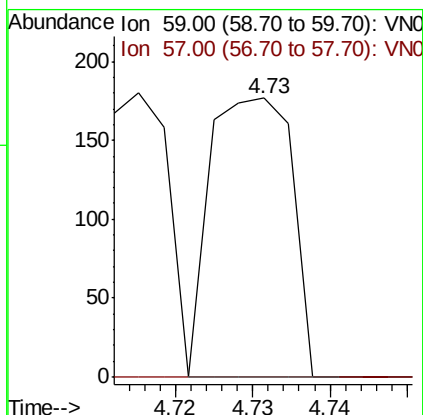
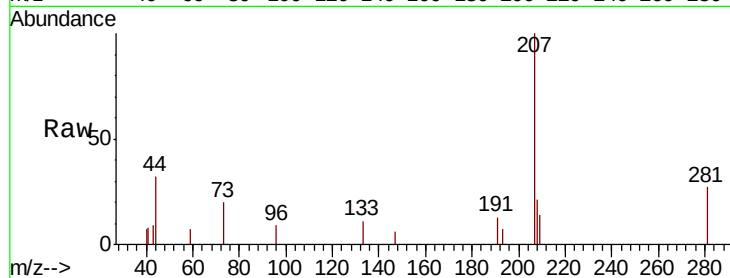




#11
Tert butyl alcohol
Concen: 0.323 ug/l
RT: 4.73 min Scan# 920
Delta R.T. 0.00 min
Lab File: VN060241.D
Acq: 25 Feb 2020 17:52

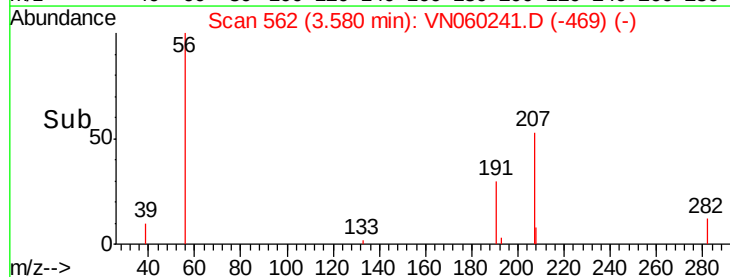
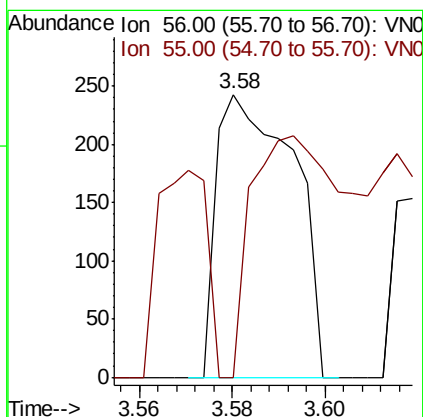
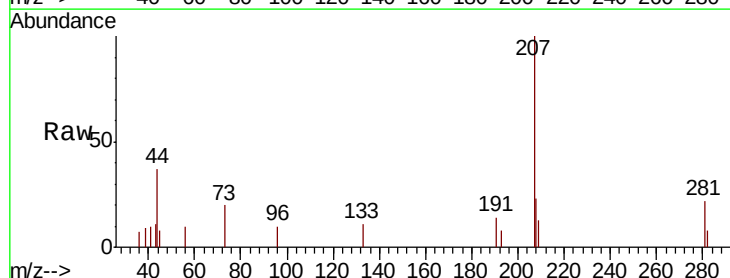
Instrument :
MSVOA_N
ClientSampled :

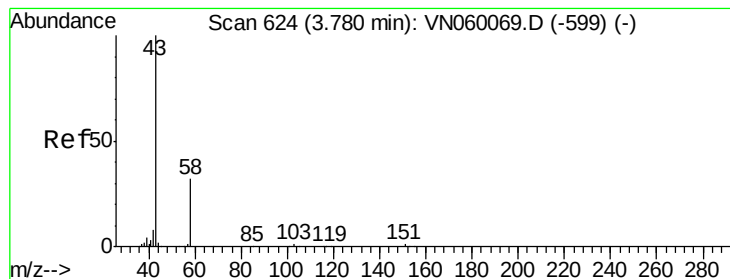
Tot Ion: 59 Resp: 130
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.704 ug/l
RT: 3.58 min Scan# 562
Delta R.T. -0.00 min
Lab File: VN060241.D
Acq: 25 Feb 2020 17:52

Tgt Ion: 56 Resp: 280
Ion Ratio Lower Upper
56 100
55 46.4 54.8 82.2#





#16

Acetone

Concen: 6.042 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060241.D

Acq: 25 Feb 2020 17:52

Instrument :

MSVOA_N

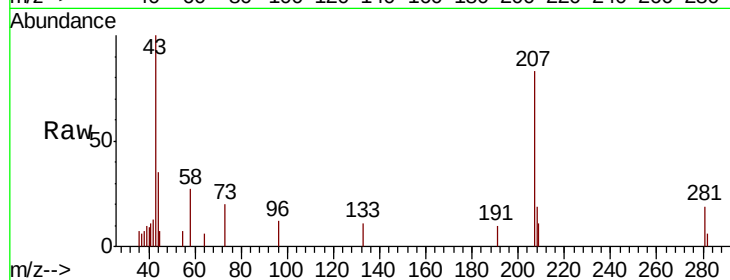
ClientSampled :

Tot Ion: 43 Resp: 7084

Ion Ratio Lower Upper

43 100

58 29.3 25.2 37.8

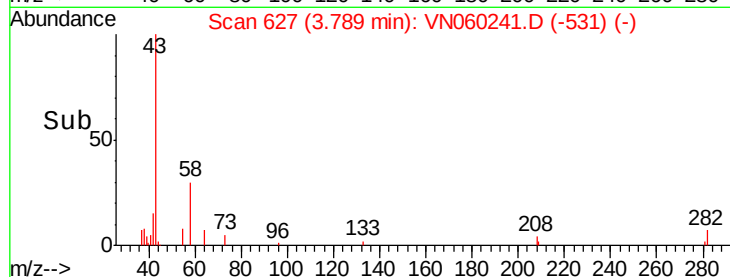


Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN060069.D (-599) (-)

3.79

Time-->

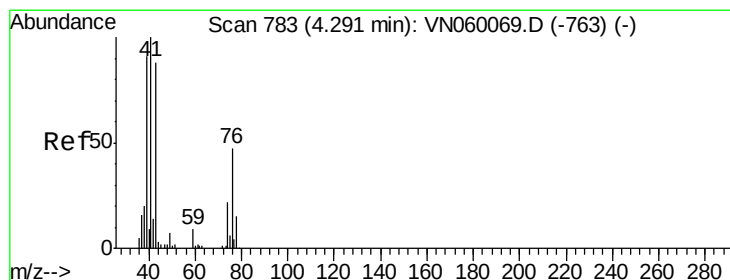


Abundance Ion 43.00 (42.70 to 43.70): VN060241.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060241.D (-531) (-)

3.79

Time-->



#18

Methyl Acetate

Concen: 0.322 ug/l

RT: 4.29 min Scan# 782

Delta R.T. -0.00 min

Lab File: VN060241.D

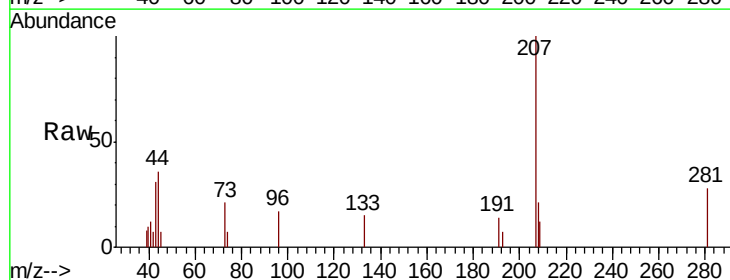
Acq: 25 Feb 2020 17:52

Tgt Ion: 43 Resp: 710

Ion Ratio Lower Upper

43 100

74 17.5 20.3 30.5#

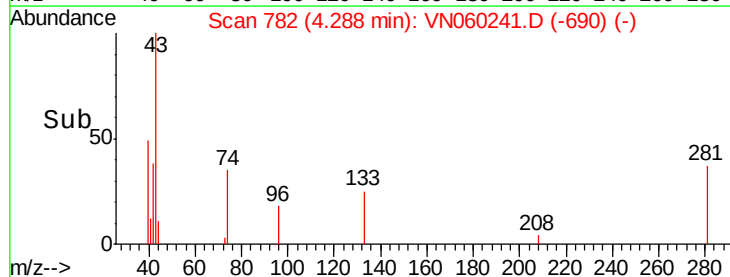


Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-763) (-)

Ion 74.00 (73.70 to 74.70): VN060069.D (-763) (-)

4.29

Time-->

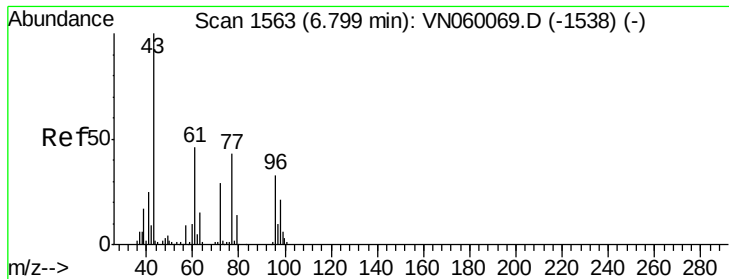


Abundance Ion 43.00 (42.70 to 43.70): VN060241.D (-690) (-)

Ion 74.00 (73.70 to 74.70): VN060241.D (-690) (-)

4.29

Time-->



#25

2-Butanone

Concen: 1.109 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VN060241.D

Acq: 25 Feb 2020 17:52

Instrument :

MSVOA_N

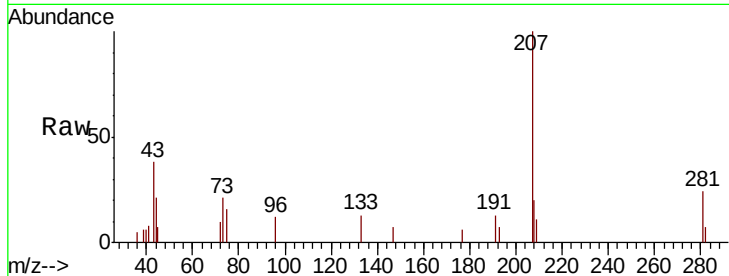
ClientSampleId :

Tot Ion: 43 Resp: 1636

Ion Ratio Lower Upper

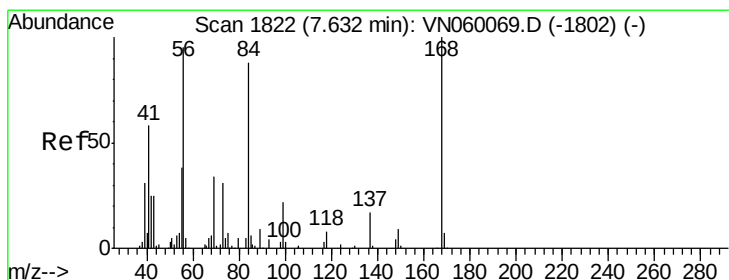
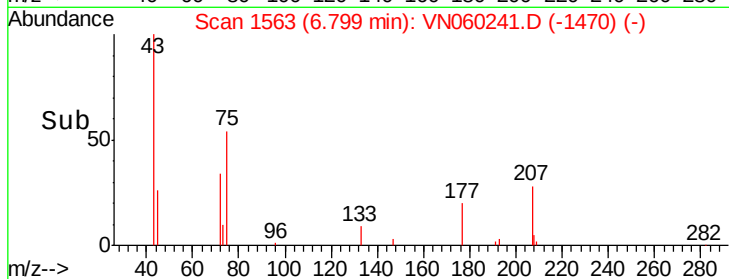
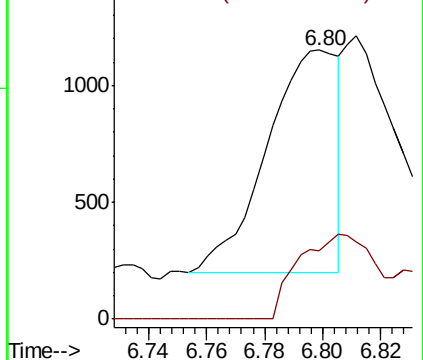
43 100

72 30.7 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: 1.318 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.02 min

Lab File: VN060241.D

Acq: 25 Feb 2020 17:52

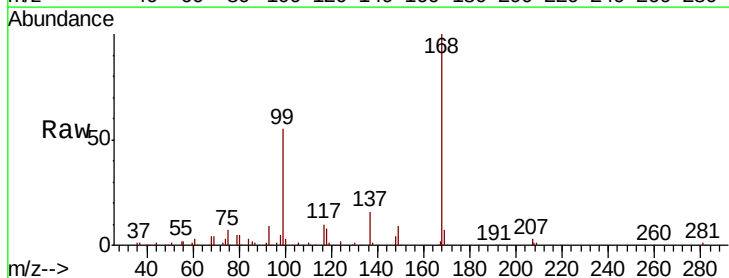
Tgt Ion: 56 Resp: 5010

Ion Ratio Lower Upper

56 100

69 150.6 28.3 42.5#

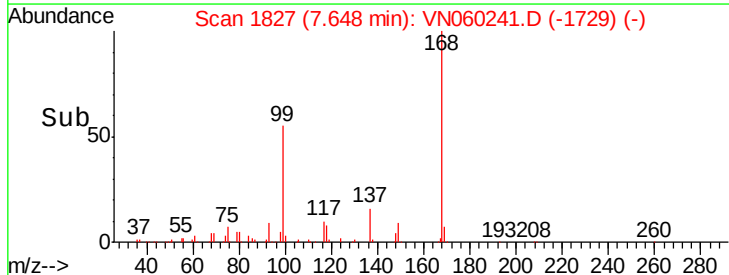
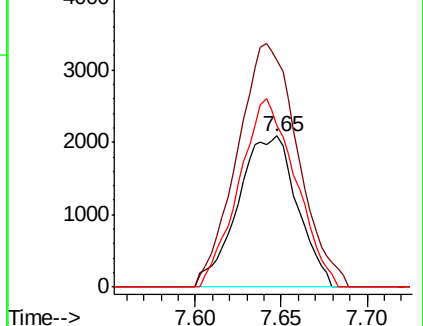
84 107.2 72.6 108.8

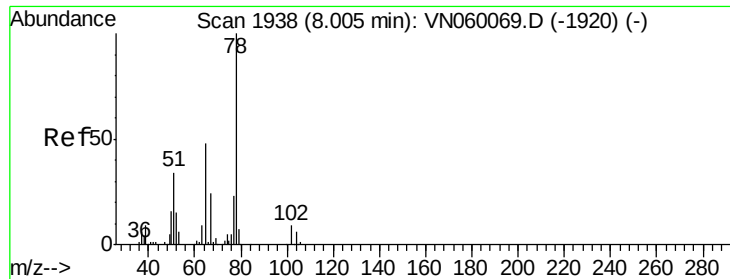


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

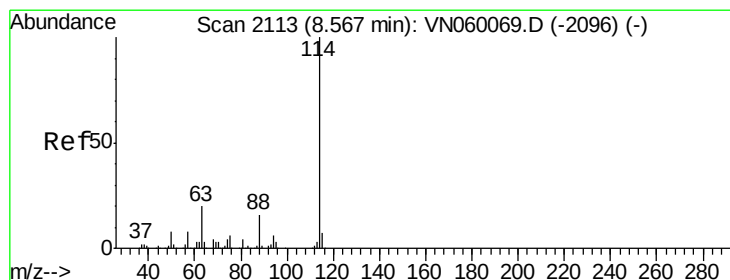
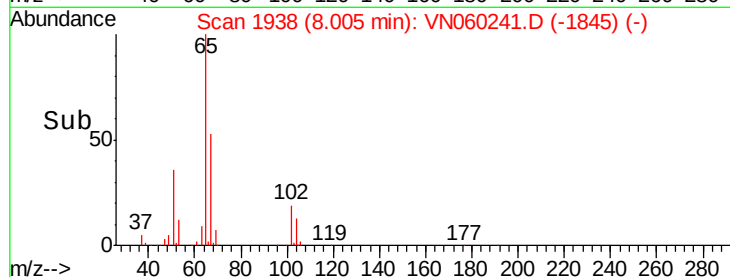
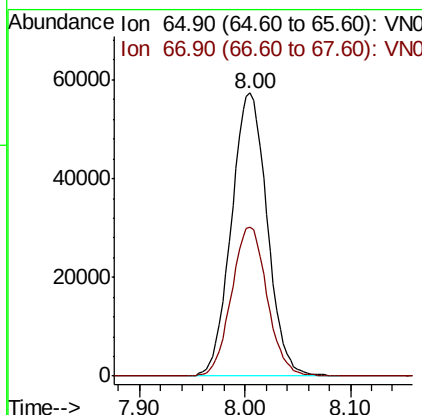
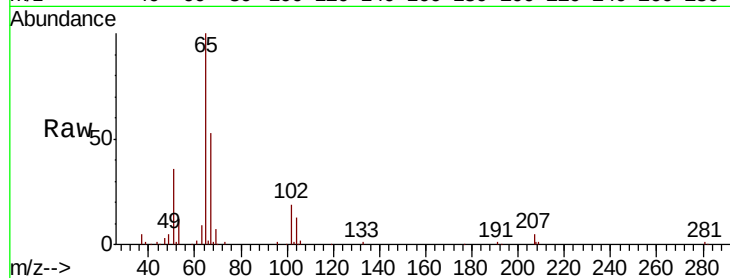




#33
 1,2-Dichloroethane-d4
 Concen: 50.154 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060241.D
 Acq: 25 Feb 2020 17:52

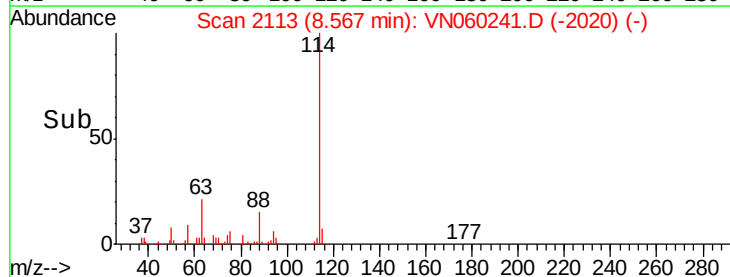
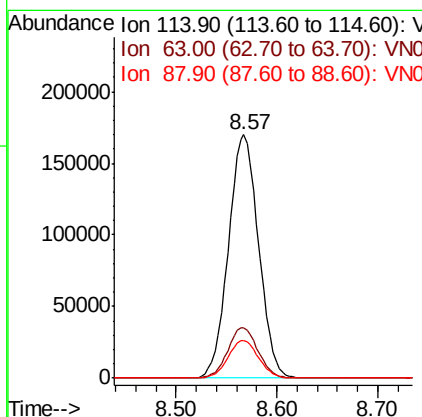
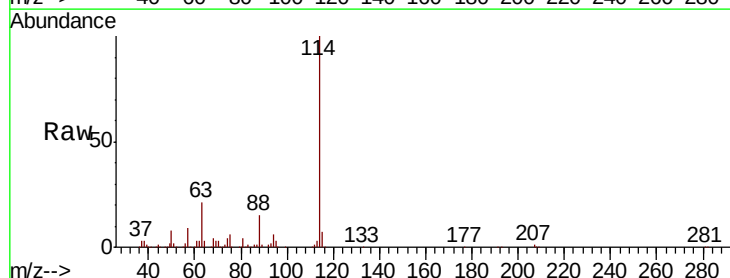
Instrument :
 MSVOA_N
 ClientSampleId :

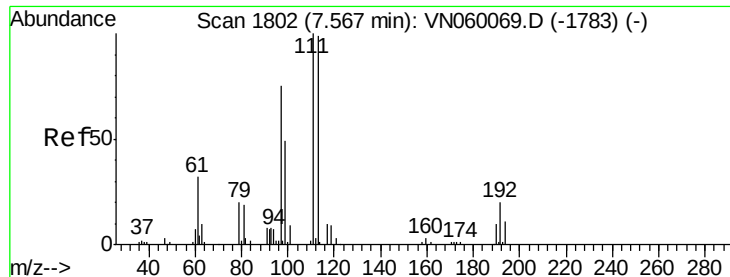
Tot Ion: 65 Resp: 134810
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060241.D
 Acq: 25 Feb 2020 17:52

Tgt Ion: 114 Resp: 352724
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.0
 88 15.5 0.0 31.6





#35

Dibromofluoromethane

Concen: 47.735 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN060241.D

Acq: 25 Feb 2020 17:52

Instrument :

MSVOA_N

ClientSampled :

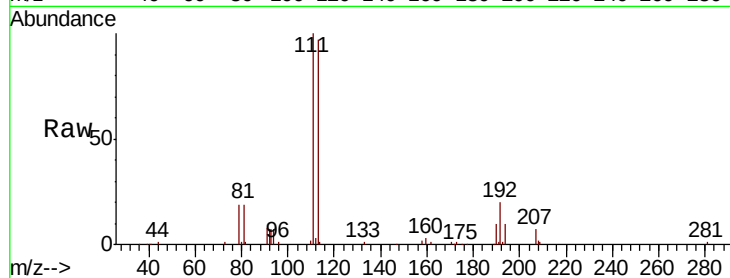
Tot Ion:113 Resp: 103499

Ion Ratio Lower Upper

113 100

111 102.6 81.4 122.2

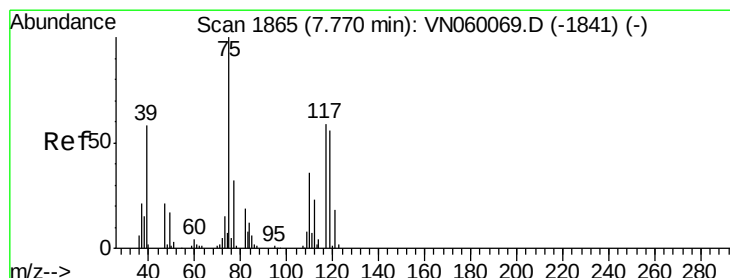
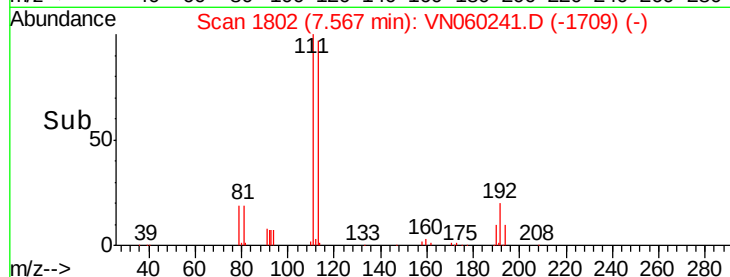
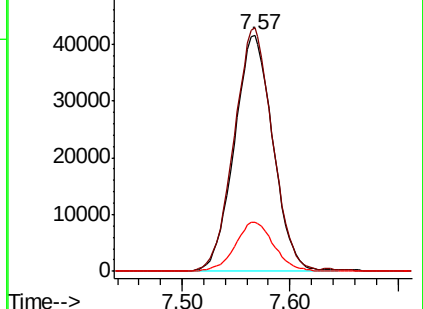
192 20.8 16.2 24.2



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: 5.296 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060241.D

Acq: 25 Feb 2020 17:52

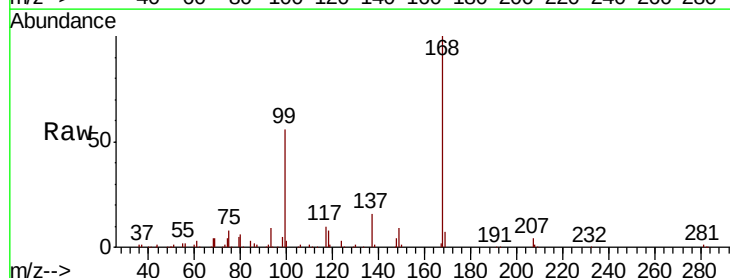
Tgt Ion: 75 Resp: 17302

Ion Ratio Lower Upper

75 100

110 8.0 18.1 54.3#

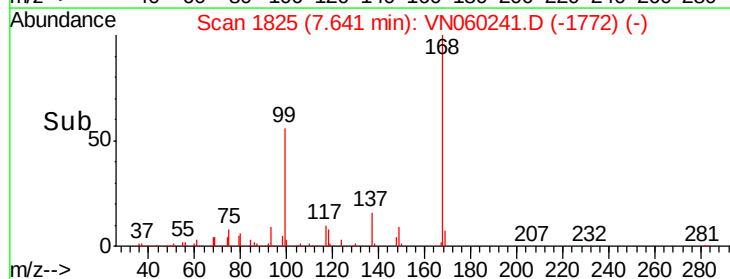
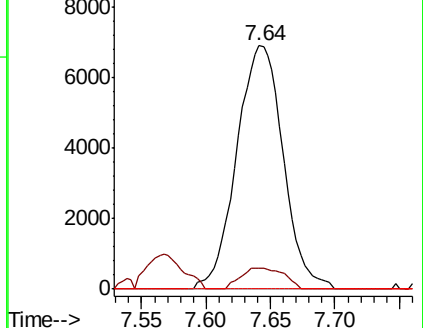
77 0.0 25.1 37.7#

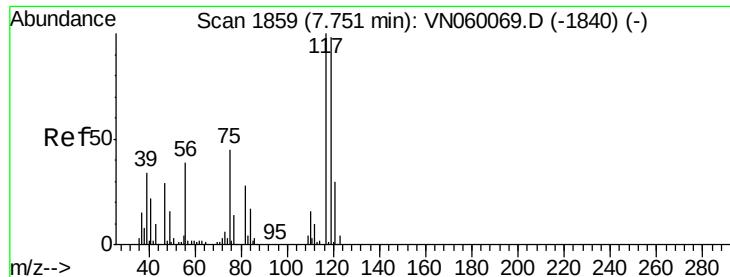


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 6.105 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060241.D

Acq: 25 Feb 2020 17:52

Instrument :

MSVOA_N

ClientSampleId :

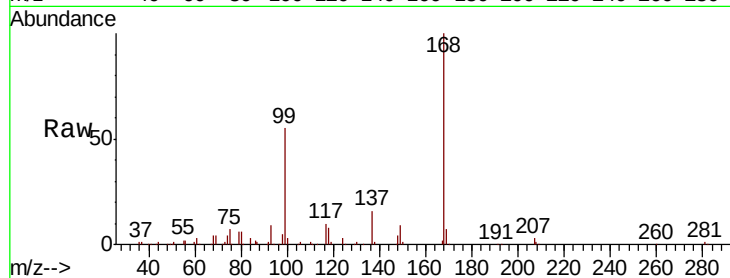
Tot Ion:117 Resp: 21662

Ion Ratio Lower Upper

117 100

119 6.3 78.2 117.4#

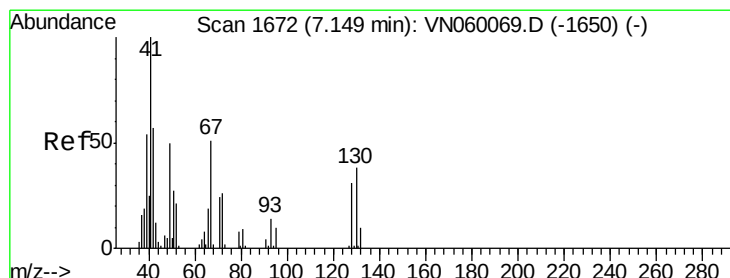
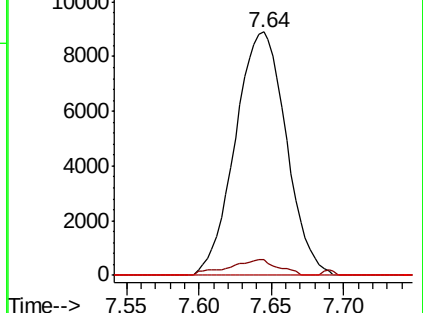
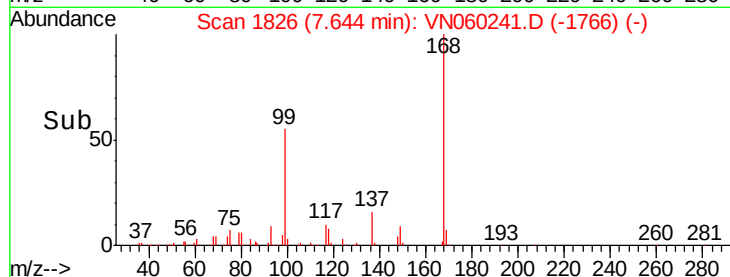
121 0.0 24.2 36.2#



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



#41

Methacrylonitrile

Concen: 0.371 ug/l

RT: 7.16 min Scan# 1675

Delta R.T. 0.01 min

Lab File: VN060241.D

Acq: 25 Feb 2020 17:52

Tgt Ion: 41 Resp: 460

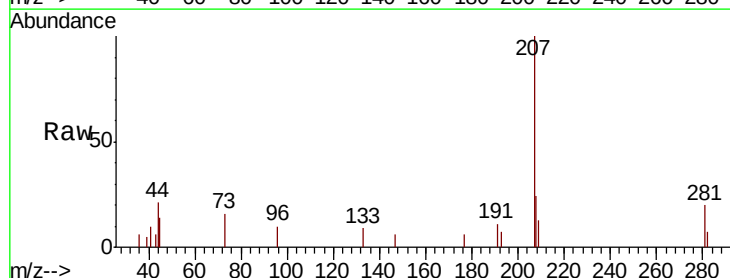
Ion Ratio Lower Upper

41 100

39 27.0 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

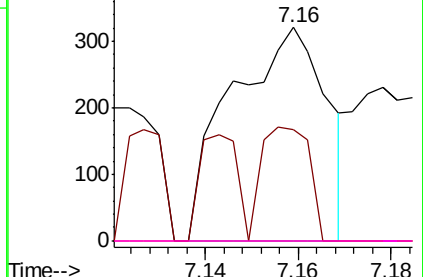
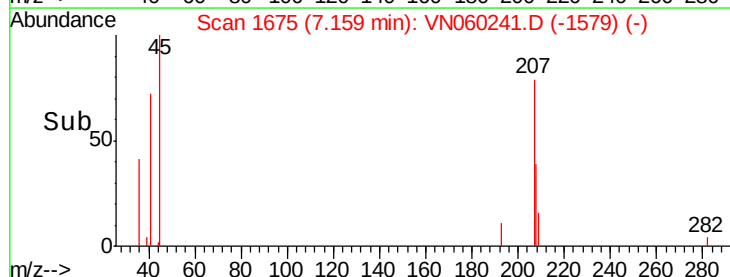


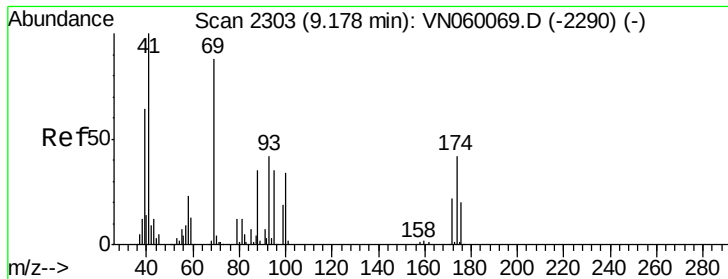
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#49

1,4-Dioxane

Concen: 51.353 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.00 min

Lab File: VN060241.D

Acq: 25 Feb 2020 17:52

Instrument :
MSVOA_N
ClientSampleId :

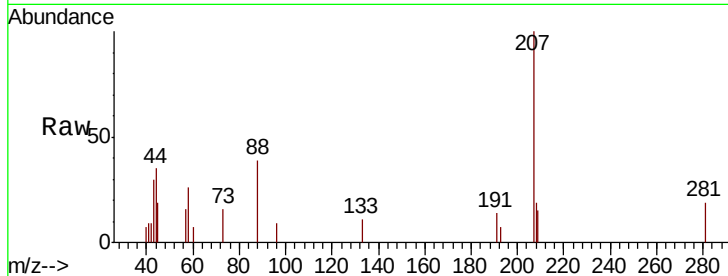
Tot Ion: 88 Resp: 1987

Ion Ratio Lower Upper

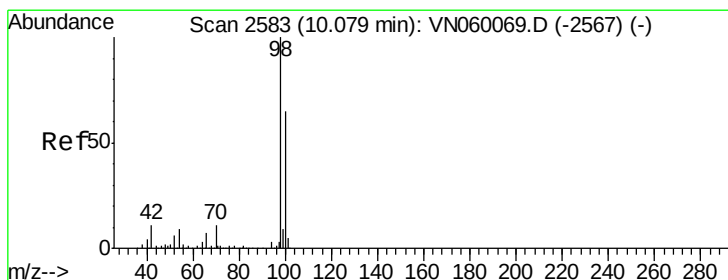
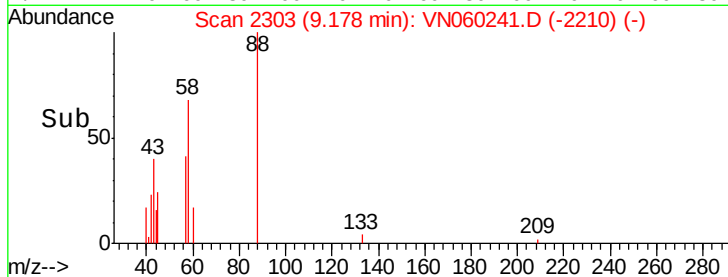
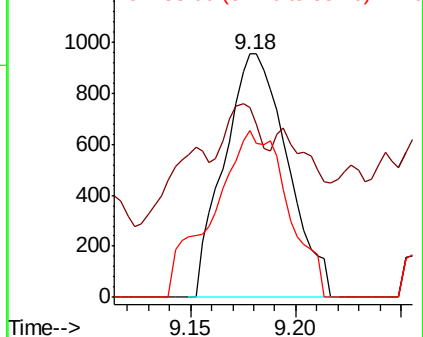
88 100

43 11.4 26.2 39.2#

58 81.0 53.2 79.8#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 50.724 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060241.D

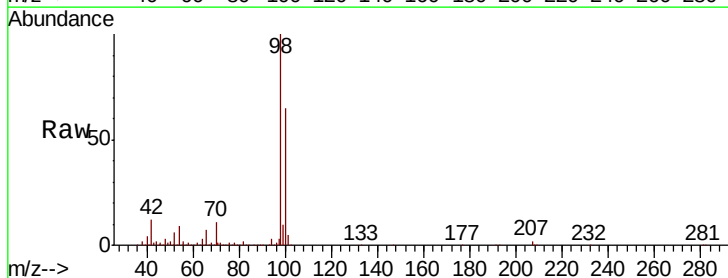
Acq: 25 Feb 2020 17:52

Tgt Ion: 98 Resp: 433091

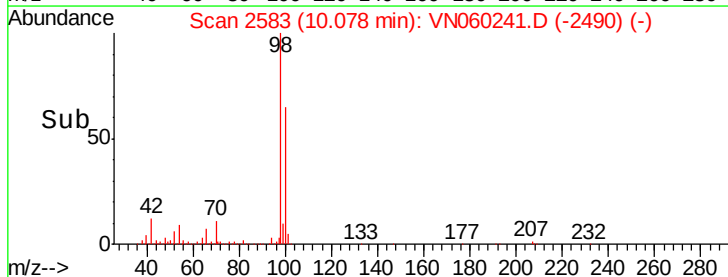
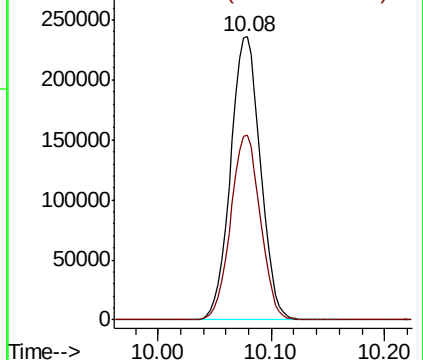
Ion Ratio Lower Upper

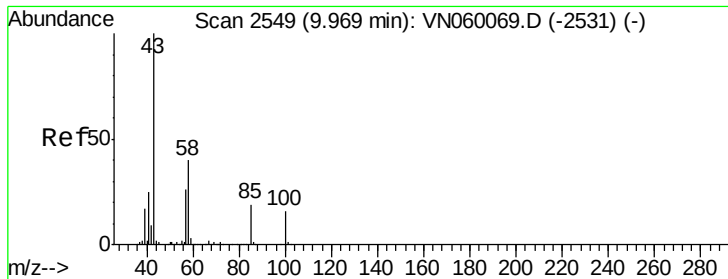
98 100

100 64.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.857 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060241.D

Acq: 25 Feb 2020 17:52

Instrument :

MSVOA_N

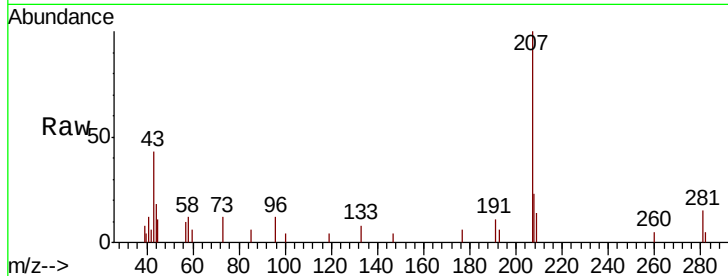
ClientSampled :

Tot Ion: 43 Resp: 2505

Ion Ratio Lower Upper

43 100

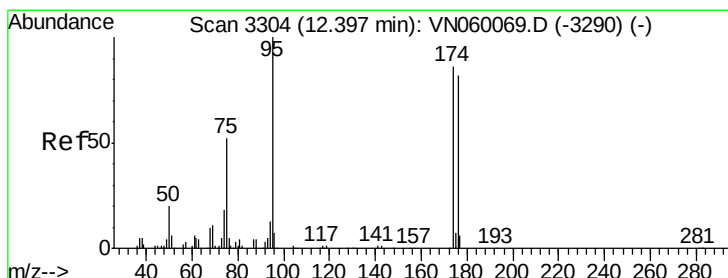
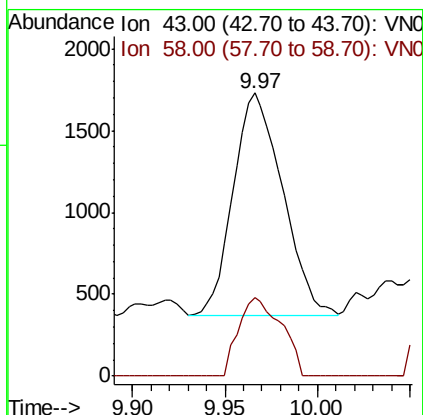
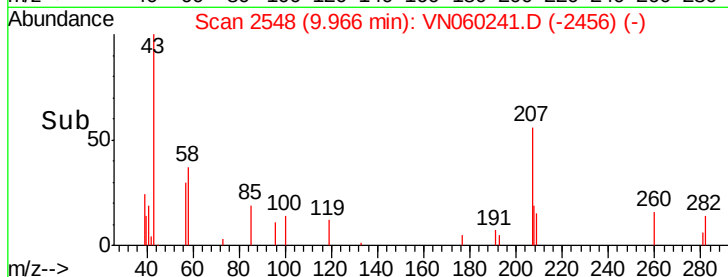
58 30.5 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN060069.D (-2531) (-)

Time-->



#62

4-Bromofluorobenzene

Concen: 54.947 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060241.D

Acq: 25 Feb 2020 17:52

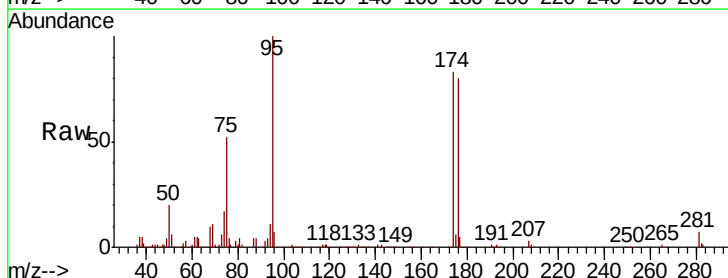
Tgt Ion: 95 Resp: 172391

Ion Ratio Lower Upper

95 100

174 81.7 0.0 169.8

176 79.3 0.0 164.8

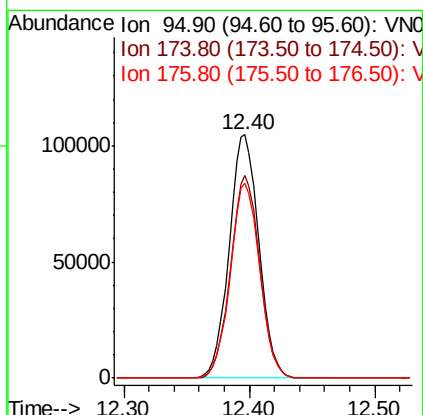
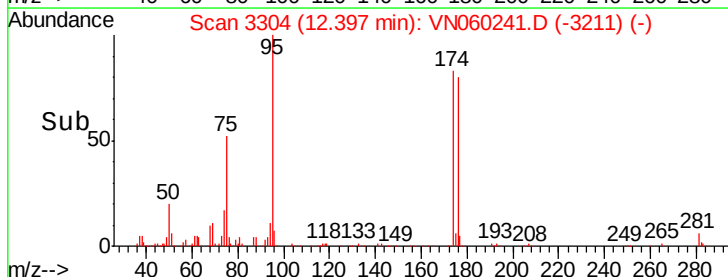


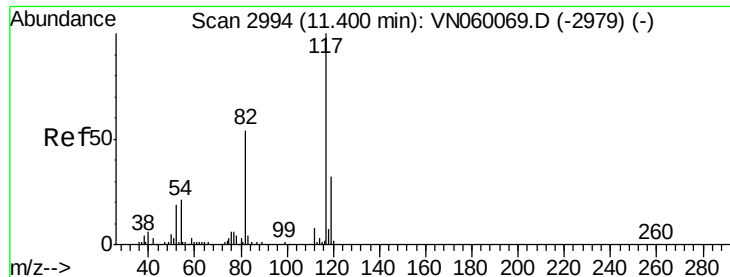
Abundance Ion 94.90 (94.60 to 95.60): VN060069.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060069.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060069.D (-3290) (-)

Time-->

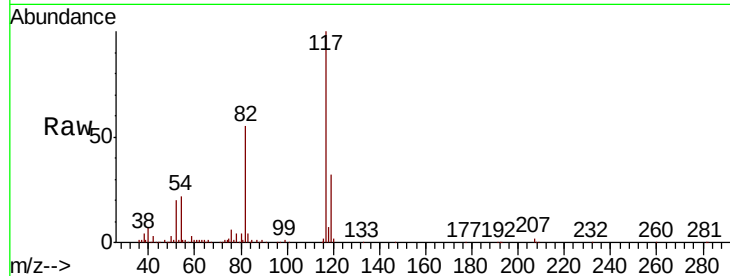




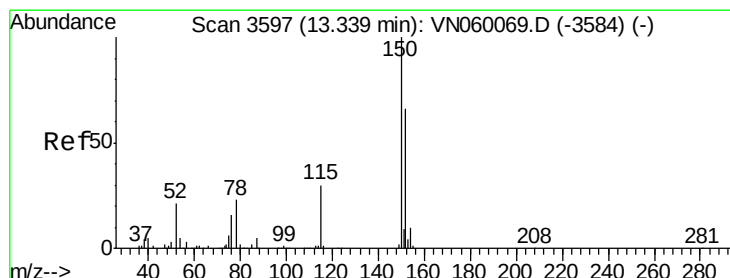
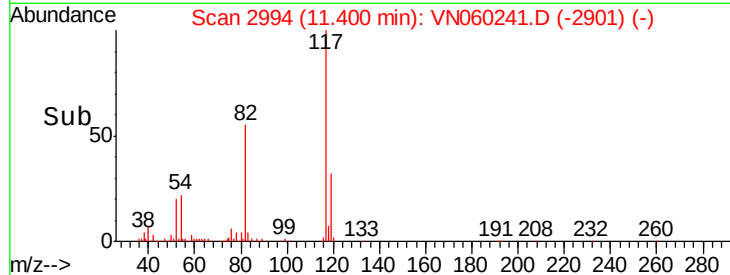
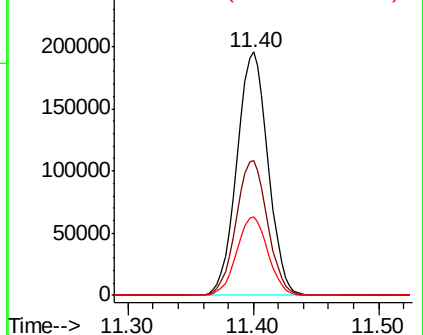
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060241.D
Acq: 25 Feb 2020 17:52

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 337354
Ion Ratio Lower Upper
117 100
82 55.2 43.4 65.0
119 32.3 25.8 38.6

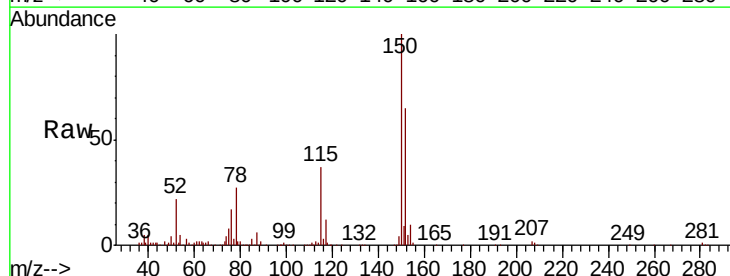


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

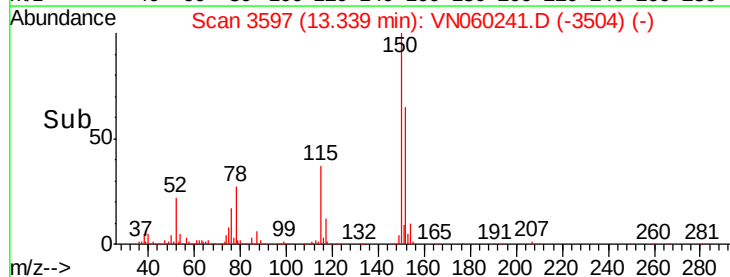
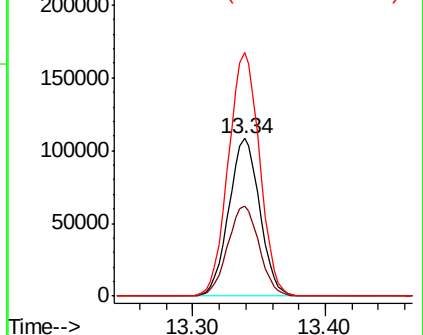


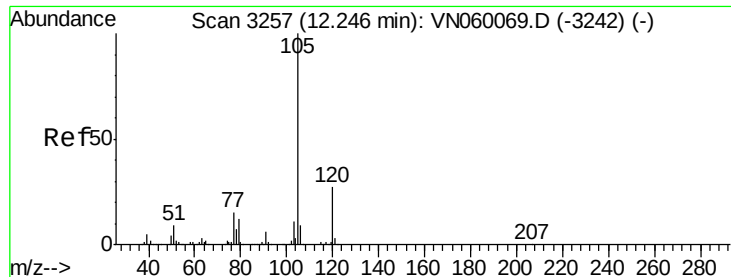
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060241.D
Acq: 25 Feb 2020 17:52

Tgt Ion:152 Resp: 175115
Ion Ratio Lower Upper
152 100
115 57.8 28.9 86.8
150 156.1 0.0 342.4



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: 0.224 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN060241.D

Acq: 25 Feb 2020 17:52

Instrument :

MSVOA_N

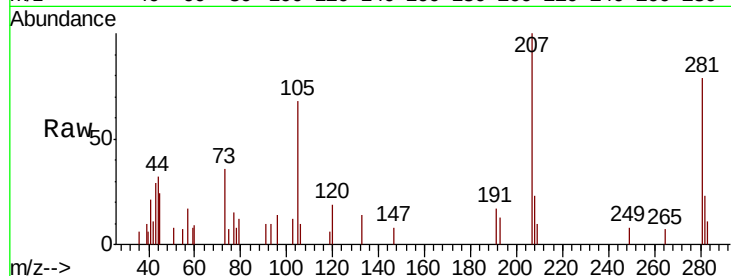
ClientSampled :

Tot Ion: 105 Resp: 2933

Ion Ratio Lower Upper

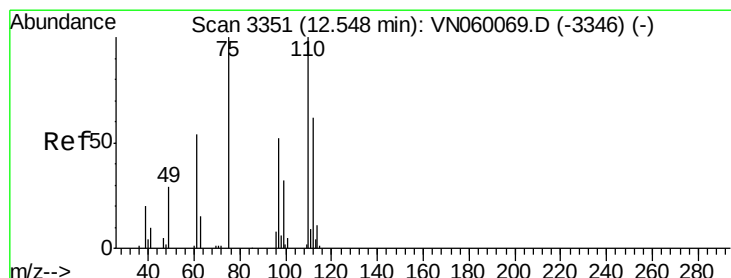
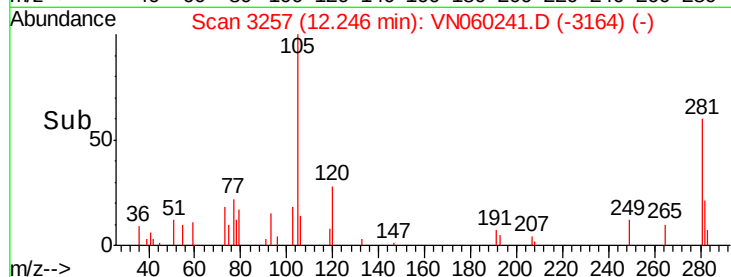
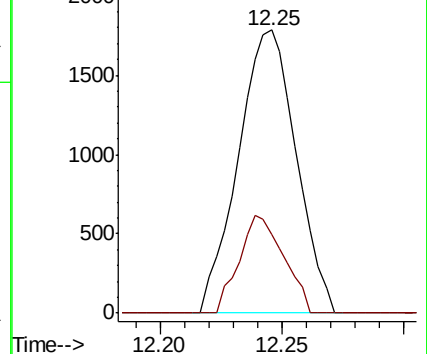
105 100

120 26.6 13.3 39.8



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: 26.038 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060241.D

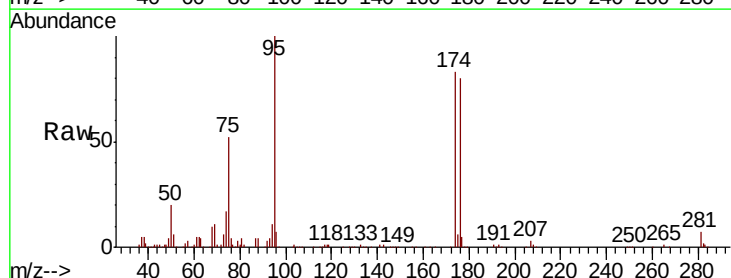
Acq: 25 Feb 2020 17:52

Tgt Ion: 75 Resp: 87237

Ion Ratio Lower Upper

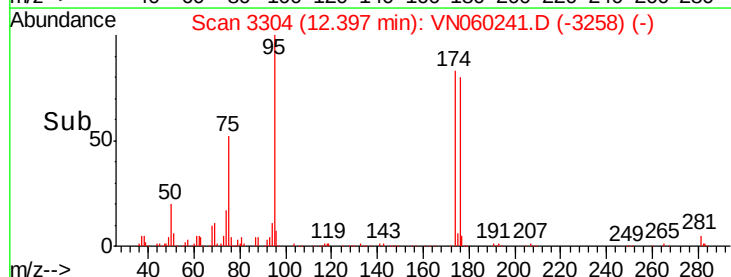
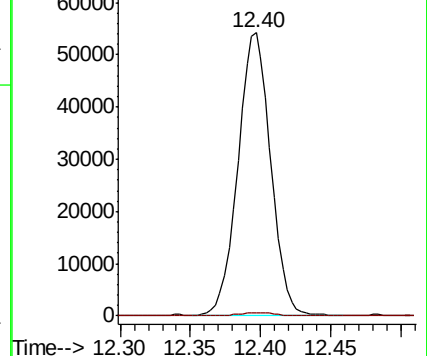
75 100

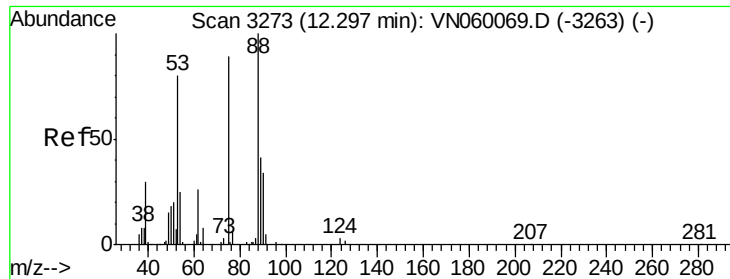
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 63.755 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060241.D

Acq: 25 Feb 2020 17:52

Instrument :

MSVOA_N

ClientSampleId :

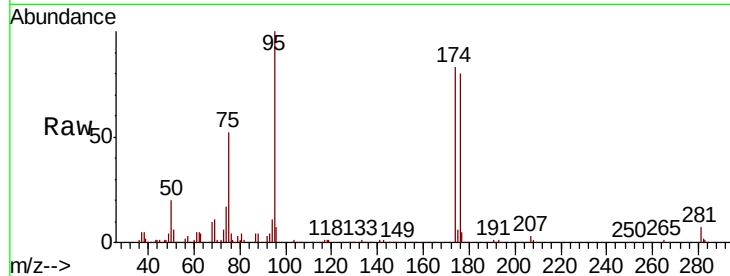
Tot Ion: 75 Resp: 87237

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

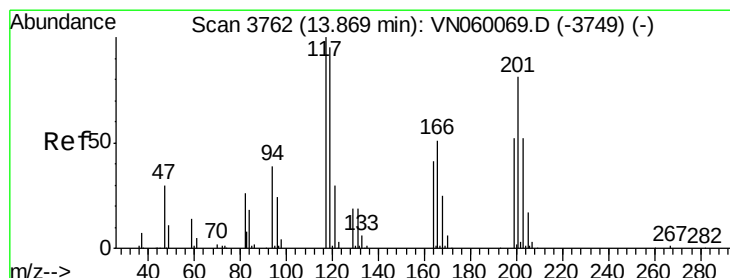
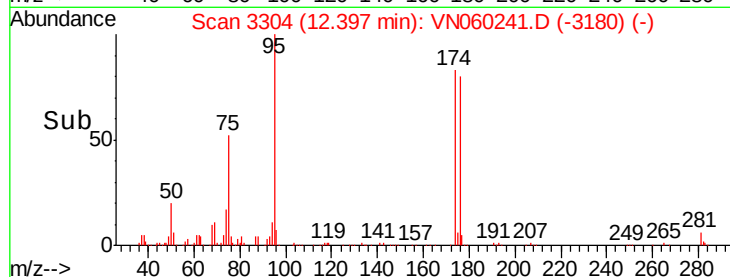
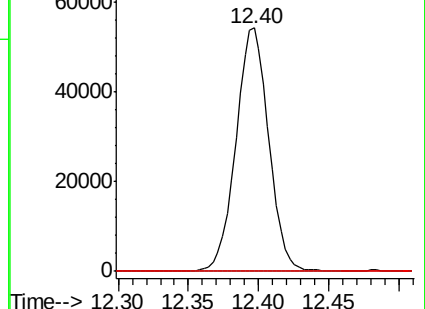
89 0.0 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060069.D (-3263) (-)

Ion 53.00 (52.70 to 53.70): VN060069.D (-3263) (-)

Ion 88.90 (88.60 to 89.60): VN060069.D (-3263) (-)



#90

Hexachloroethane

Concen: 0.365 ug/l

RT: 13.89 min Scan# 3768

Delta R.T. 0.02 min

Lab File: VN060241.D

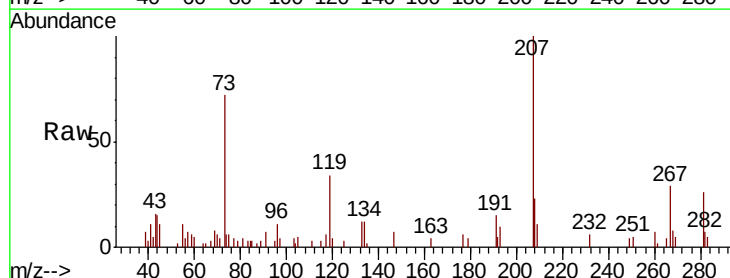
Acq: 25 Feb 2020 17:52

Tgt Ion: 117 Resp: 786

Ion Ratio Lower Upper

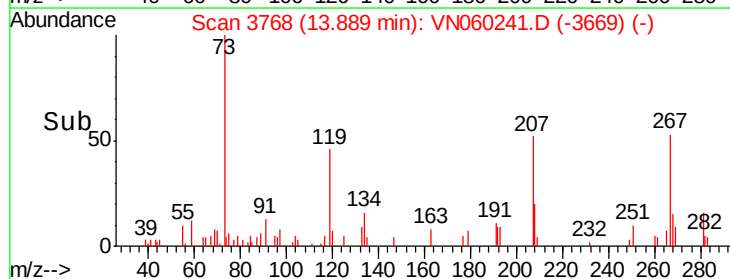
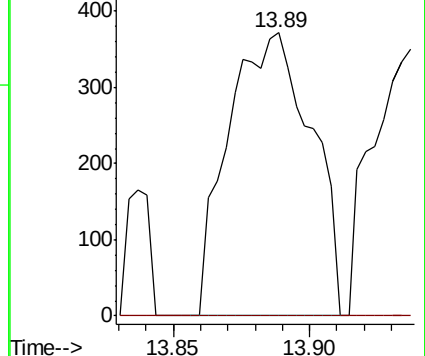
117 100

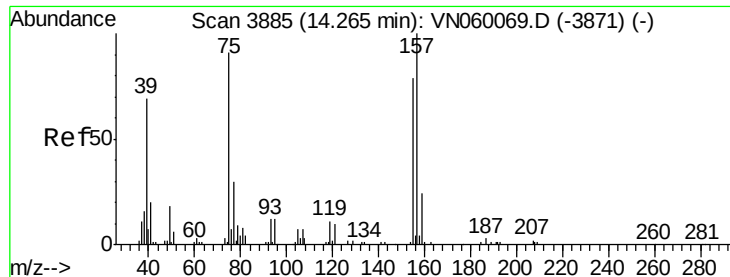
201 0.0 41.7 125.1#



Abundance Ion 116.80 (116.50 to 117.50): VN060069.D (-3749) (-)

Ion 200.70 (200.40 to 201.40): VN060069.D (-3749) (-)

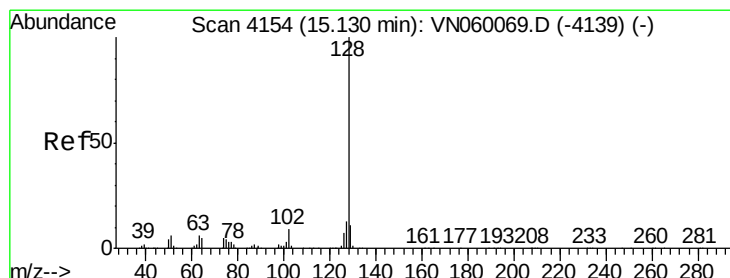
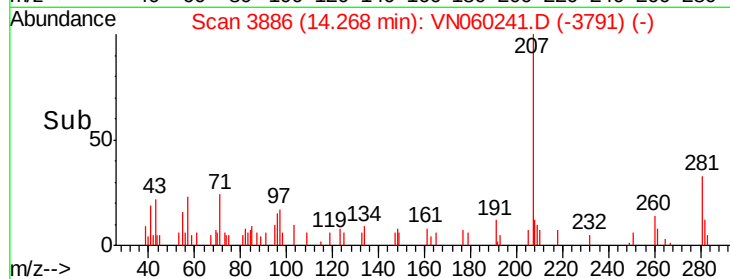
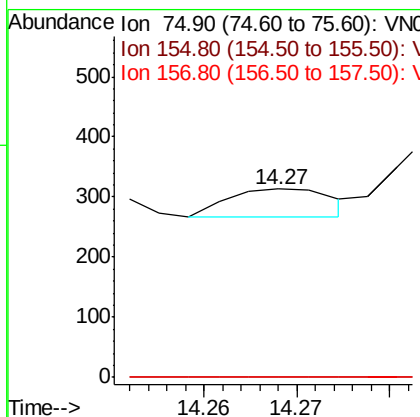
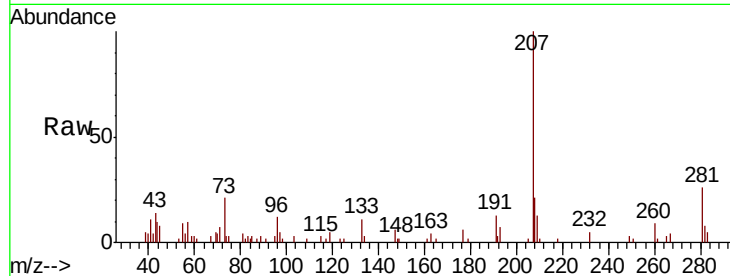




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN060241.D
 Acq: 25 Feb 2020 17:52

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 37
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.0 129.0#
 157 0.0 54.9 164.5#



#95
 Naphthalene
 Concen: 0.328 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. -0.00 min
 Lab File: VN060241.D
 Acq: 25 Feb 2020 17:52

Tgt Ion: 128 Resp: 2926
 Ion Ratio Lower Upper
 128 100
 127 14.2 10.3 15.5
 129 12.9 8.6 13.0

