

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052020\
 Data File : VN061510.D
 Acq On : 20 May 2020 19:00
 Operator : JC/MD
 Sample : L2720-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S32-0696

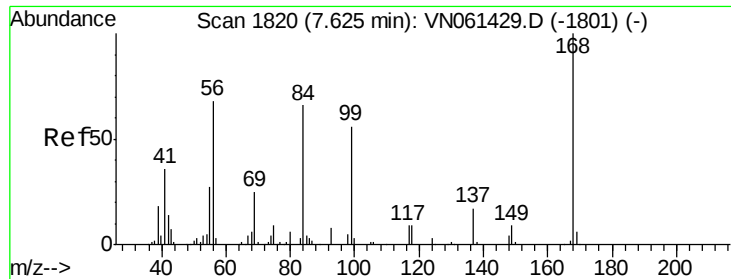
Quant Time: May 21 01:13:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
 Quant Title : SW846 8260
 QLast Update : Mon May 18 13:09:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	284234	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	509325	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	497691	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	221726	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	189211	44.60	ug/l	0.00
Spiked Amount			Recovery	=	89.20%	
35) Dibromofluoromethane	7.55	113	147458	55.26	ug/l	0.00
Spiked Amount			Recovery	=	110.52%	
50) Toluene-d8	10.06	98	636927	51.47	ug/l	0.00
Spiked Amount			Recovery	=	102.94%	
62) 4-Bromofluorobenzene	12.38	95	240855	52.09	ug/l	0.00
Spiked Amount			Recovery	=	104.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	1697	0.718	ug/l	86
3) Chloromethane	2.04	50	808	0.210	ug/l	94
4) Vinyl Chloride	2.16	62	3171	0.575	ug/l	93
5) Bromomethane	2.54	94	335	Below Cal	#	32
16) Acetone	3.78	43	1802	Below Cal	#	86
17) Carbon Disulfide	4.00	76	261	Below Cal	#	75
18) Methyl Acetate	4.29	43	135	Below Cal	#	49
21) trans-1,2-Dichloroethene	4.99	96	2295	0.683	ug/l #	76
27) cis-1,2-Dichloroethene	6.78	96	1720	0.433	ug/l	92
29) Tetrahydrofuran	7.17	42	496	0.388	ug/l #	47
31) Cyclohexane	7.62	56	5801	Below Cal	#	1
36) 1,1-Dichloropropene	7.63	75	22509	4.726	ug/l #	49
38) Carbon Tetrachloride	7.63	117	28608	6.524	ug/l #	16
51) 4-Methyl-2-Pentanone	10.06	43	2711	0.661	ug/l #	1
71) Bromoform	12.37	173	1747	2.613	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	122590	25.767	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	122590	68.353	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

Instrument :

MSVOA_N

ClientSampled :

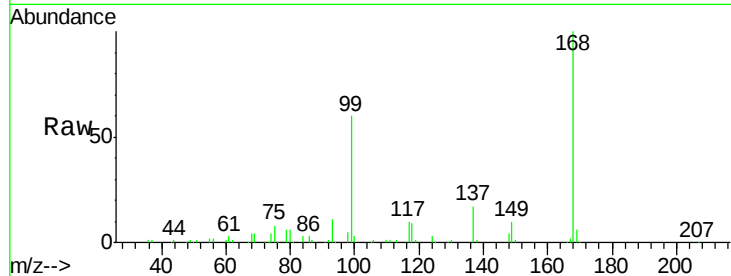
S32-0696

Tot Ion:168 Resp: 284234

Ion Ratio Lower Upper

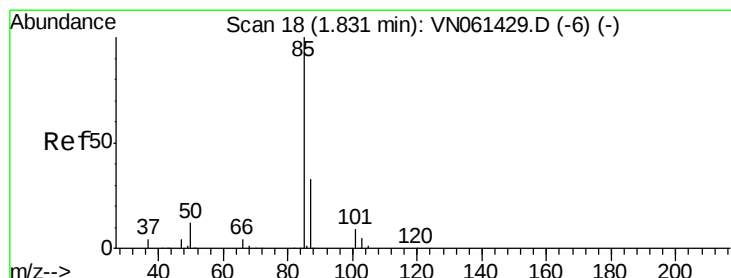
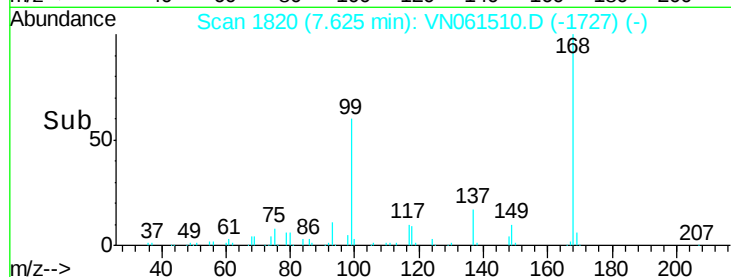
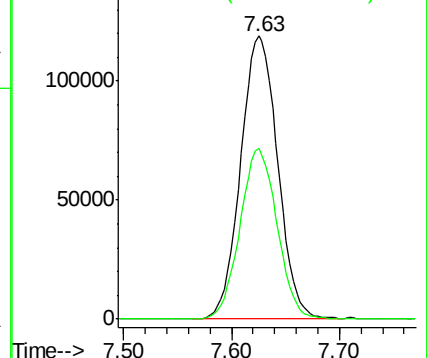
168 100

99 60.2 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 0.718 ug/l

RT: 1.83 min Scan# 18

Delta R.T. -0.00 min

Lab File: VN061510.D

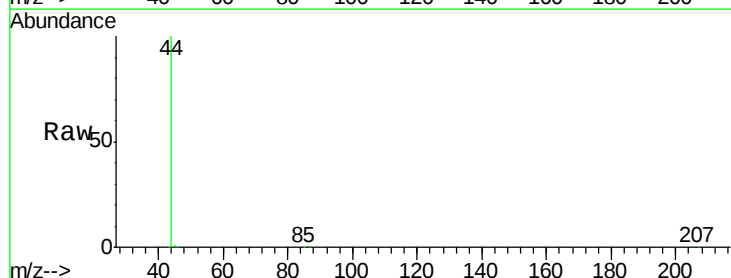
Acq: 20 May 2020 19:00

Tgt Ion: 85 Resp: 1697

Ion Ratio Lower Upper

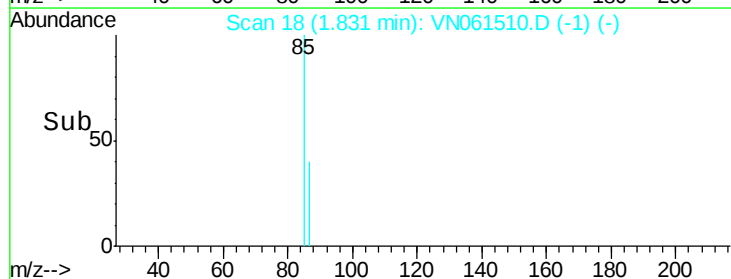
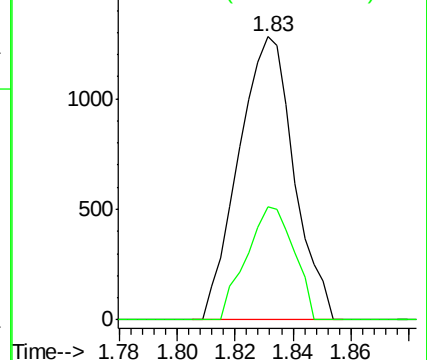
85 100

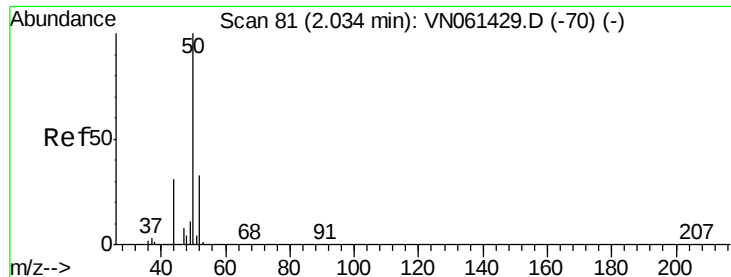
87 40.2 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 0.210 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

Instrument :

MSVOA_N

ClientSampleId :

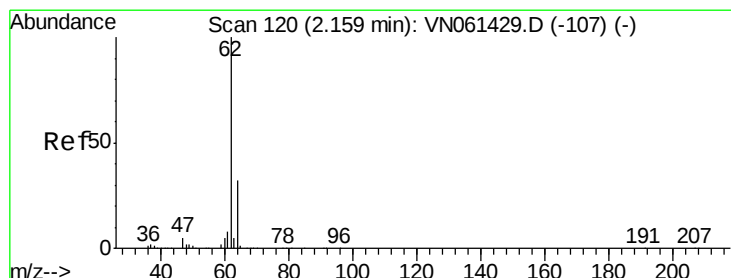
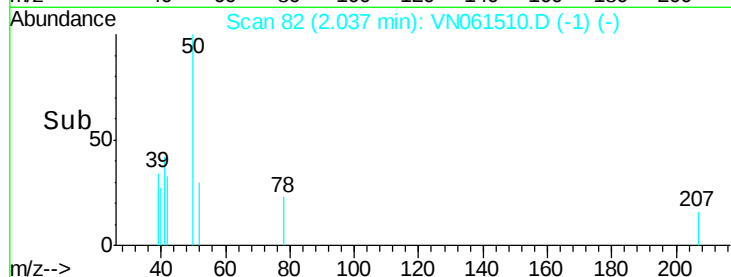
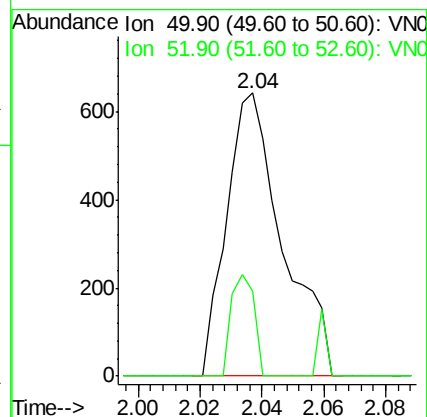
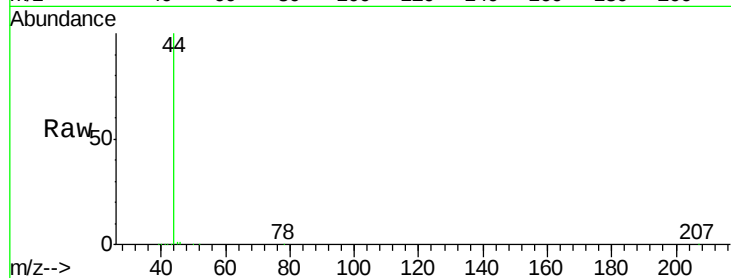
S32-0696

Tot Ion: 50 Resp: 808

Ion Ratio Lower Upper

50 100

52 30.2 26.7 40.1



#4

Vinyl Chloride

Concen: 0.575 ug/l

RT: 2.16 min Scan# 120

Delta R.T. -0.00 min

Lab File: VN061510.D

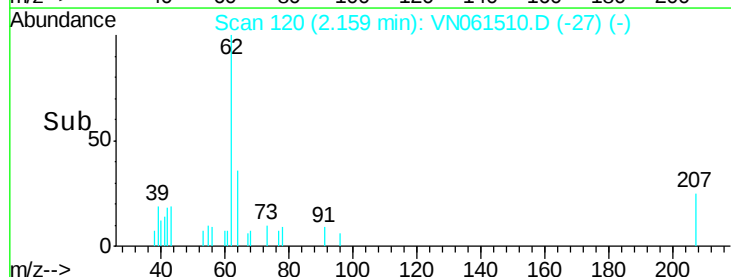
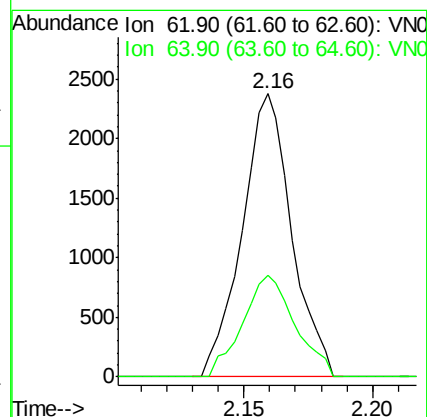
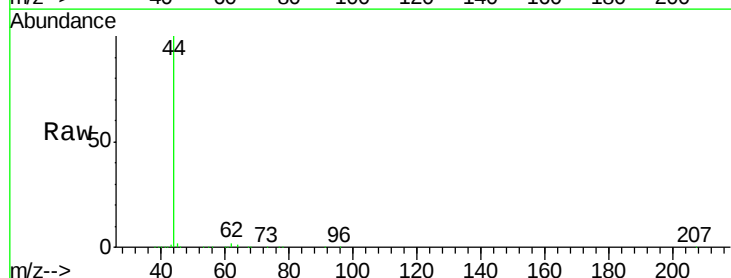
Acq: 20 May 2020 19:00

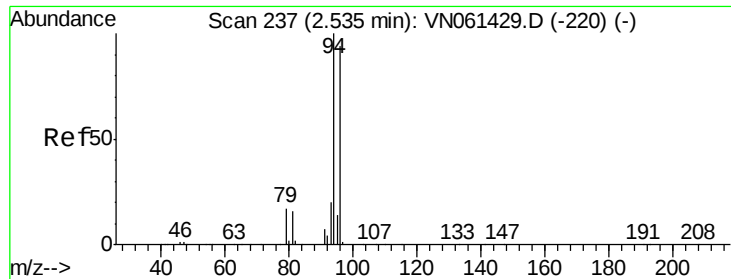
Tgt Ion: 62 Resp: 3171

Ion Ratio Lower Upper

62 100

64 35.7 25.3 37.9





#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 240

Delta R.T. 0.01 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

Instrument :

MSVOA_N

ClientSampled :

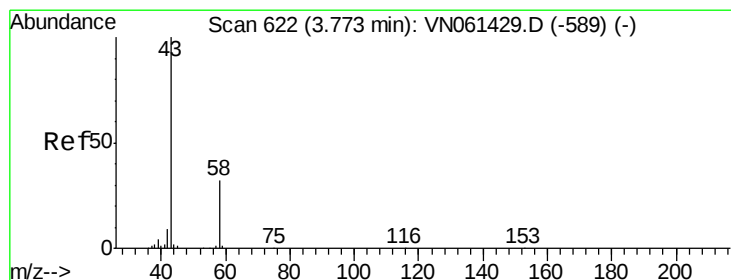
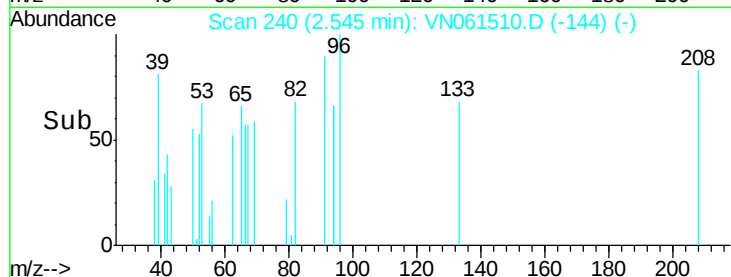
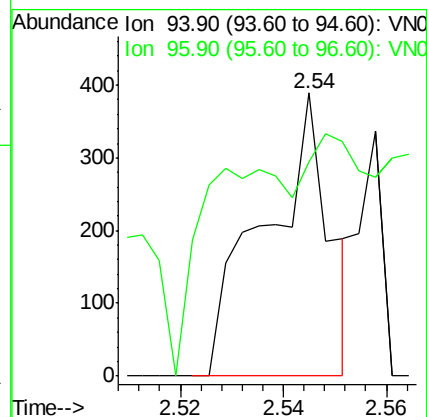
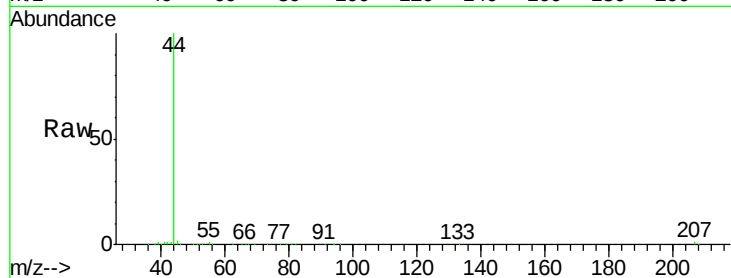
S32-0696

Tot Ion: 94 Resp: 335

Ion Ratio Lower Upper

94 100

96 27.8 74.9 112.3#



#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN061510.D

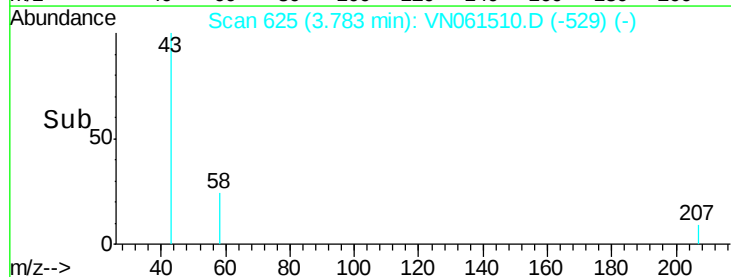
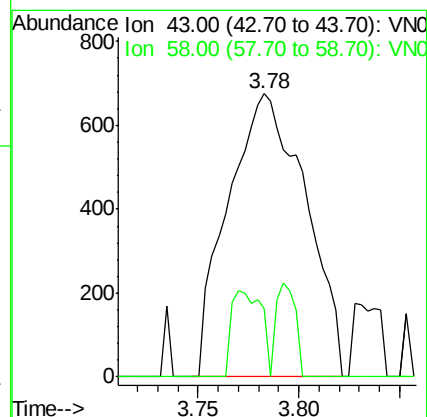
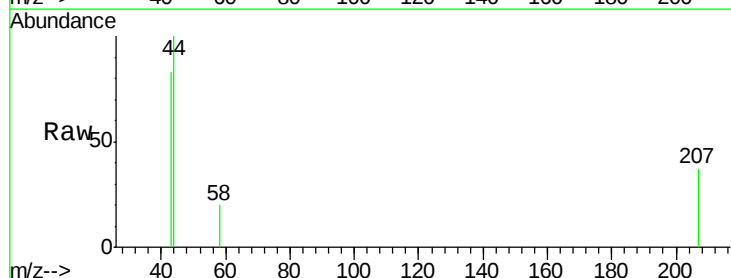
Acq: 20 May 2020 19:00

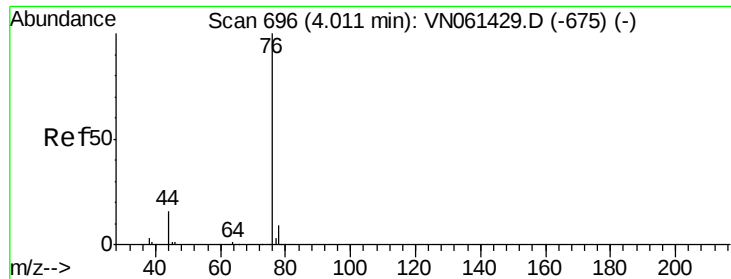
Tgt Ion: 43 Resp: 1802

Ion Ratio Lower Upper

43 100

58 24.3 25.6 38.4#





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.00 min Scan# 694

Delta R.T. -0.01 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

Instrument :

MSVOA_N

ClientSampleId :

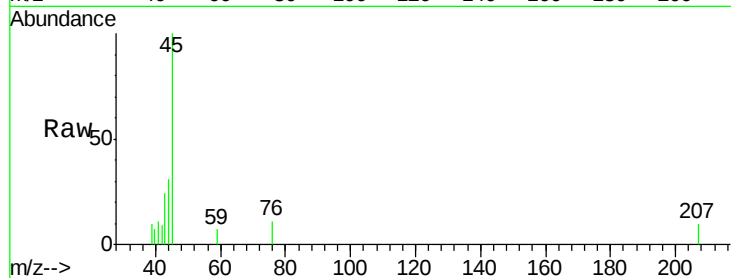
S32-0696

Tot Ion: 76 Resp: 261

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

4.00

300

250

200

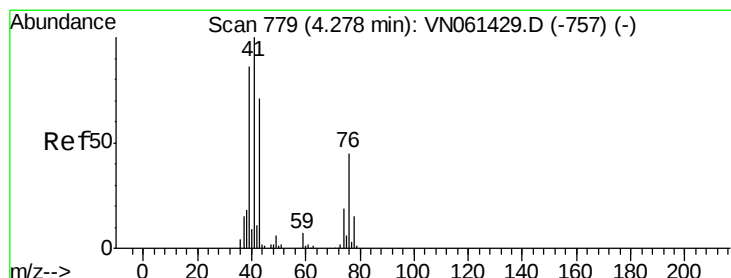
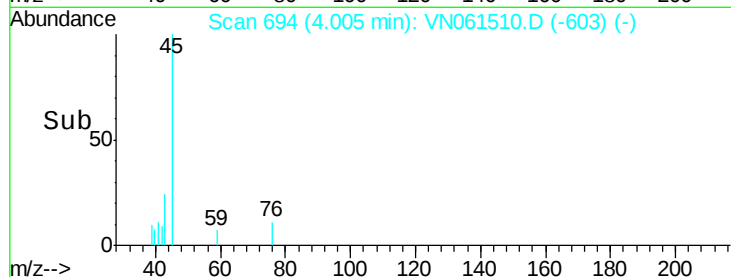
150

100

50

0

Time--> 3.98 3.99 4.00 4.01



#18

Methyl Acetate

Concen: Below Cal

RT: 4.29 min Scan# 784

Delta R.T. 0.02 min

Lab File: VN061510.D

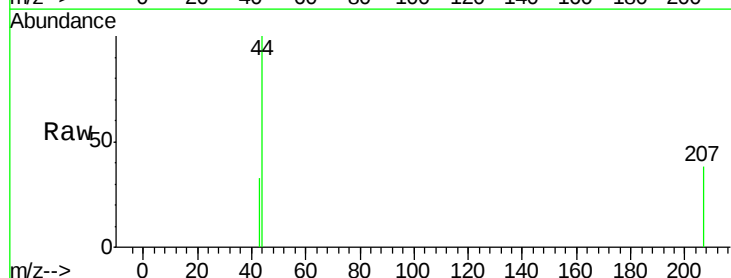
Acq: 20 May 2020 19:00

Tgt Ion: 43 Resp: 135

Ion Ratio Lower Upper

43 100

74 0.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO

4.29

200

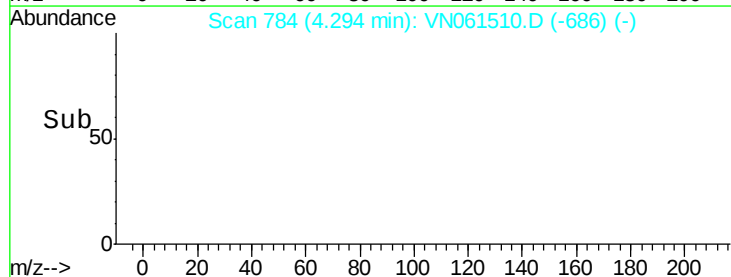
150

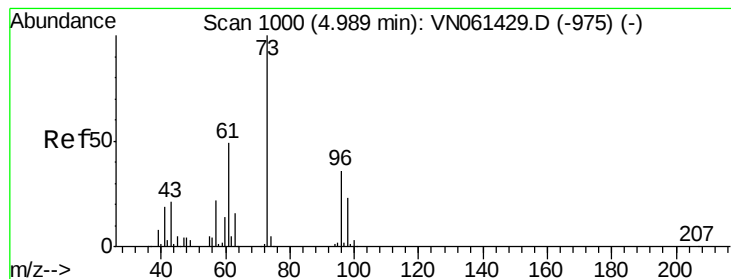
100

50

0

Time--> 4.27 4.28 4.29 4.30 4.31





#21

trans-1,2-Dichloroethene

Concen: 0.683 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

Instrument :

MSVOA_N

ClientSampleId :

S32-0696

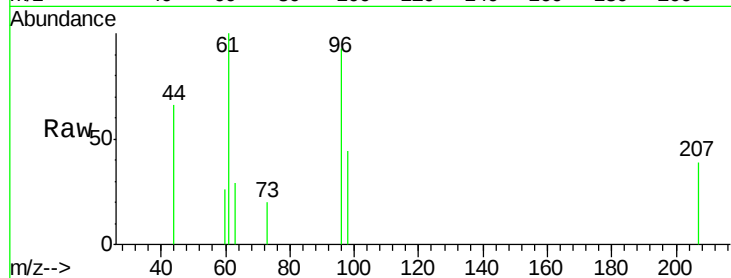
Tot Ion: 96 Resp: 2295

Ion Ratio Lower Upper

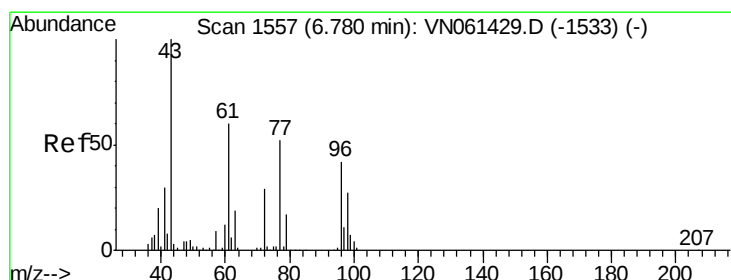
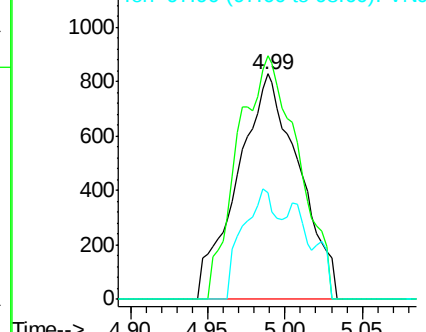
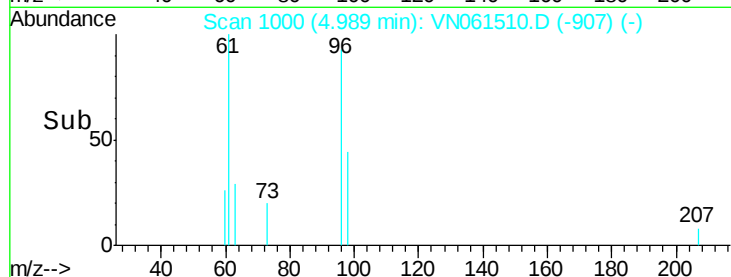
96 100

61 108.1 109.8 164.6#

98 47.1 52.4 78.6#



Abundance Ion 95.90 (95.60 to 96.60): VN061510.D (-907) (-)



#27

cis-1,2-Dichloroethene

Concen: 0.433 ug/l

RT: 6.78 min Scan# 1557

Delta R.T. -0.00 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

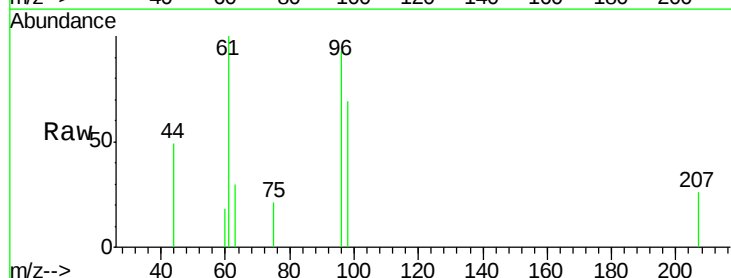
Tgt Ion: 96 Resp: 1720

Ion Ratio Lower Upper

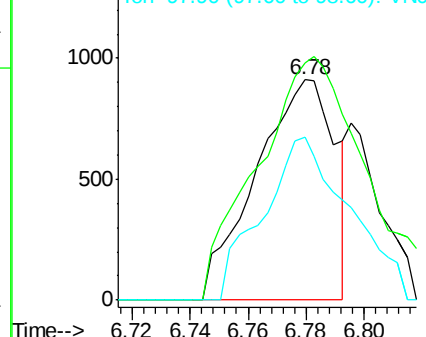
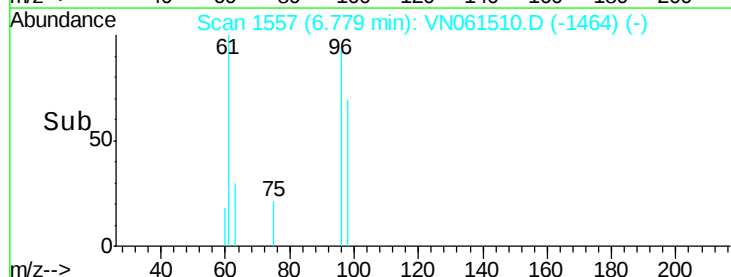
96 100

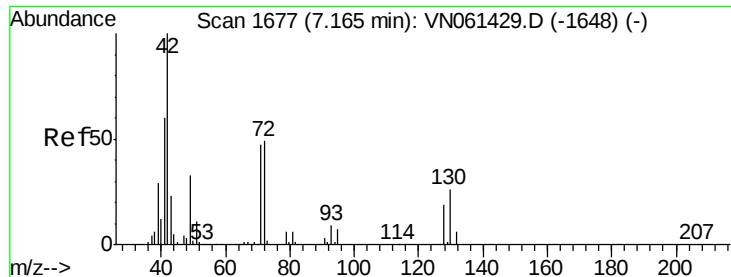
61 148.8 0.0 294.2

98 81.6 0.0 128.2



Abundance Ion 95.90 (95.60 to 96.60): VN061510.D (-1464) (-)





#29

Tetrahydrofuran

Concen: 0.388 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. 0.00 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

Instrument :

MSVOA_N

ClientSampleId :

S32-0696

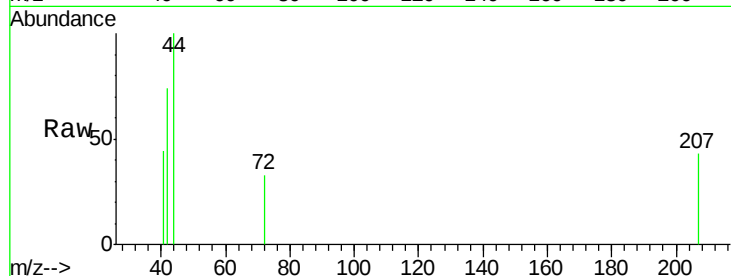
Tot Ion: 42 Resp: 496

Ion Ratio Lower Upper

42 100

72 6.3 39.0 58.6#

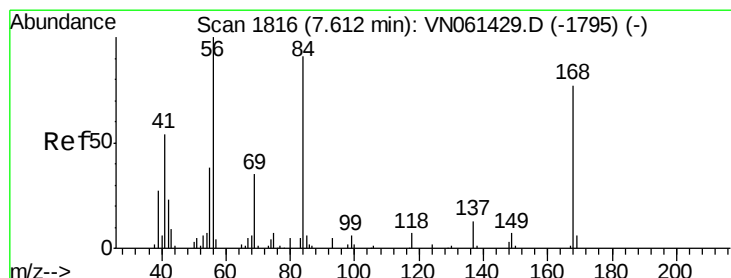
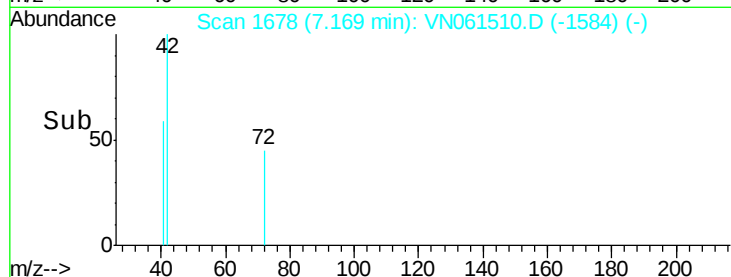
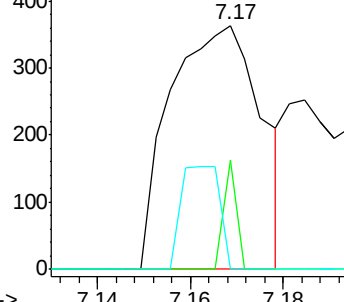
71 17.7 36.9 55.3#



Abundance Ion 42.00 (41.70 to 42.70): VN061510.D (-1648) (-)

Ion 72.00 (71.70 to 72.70): VN061510.D (-1648) (-)

Ion 71.00 (70.70 to 71.70): VN061510.D (-1648) (-)



#31

Cyclohexane

Concen: Below Cal

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

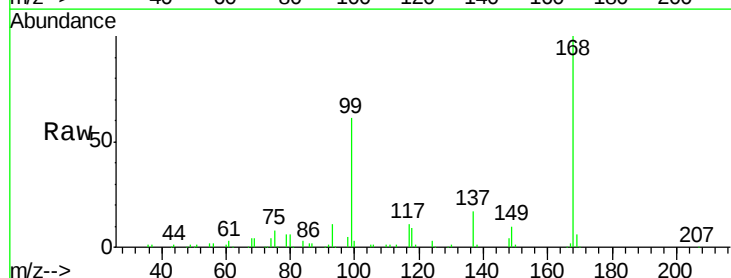
Tgt Ion: 56 Resp: 5801

Ion Ratio Lower Upper

56 100

69 156.5 27.8 41.6#

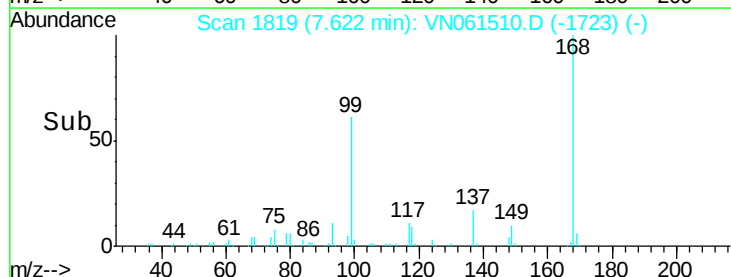
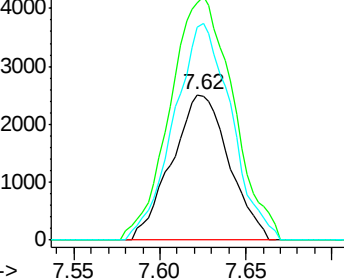
84 146.7 72.7 109.1#

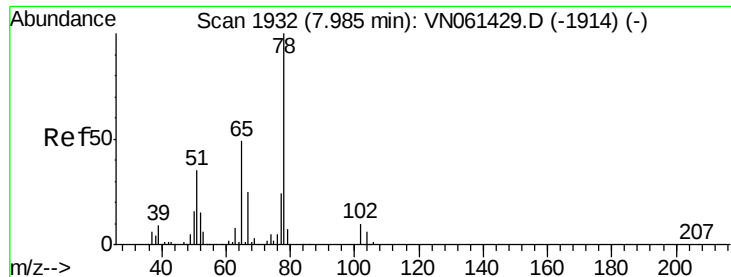


Abundance Ion 56.00 (55.70 to 56.70): VN061510.D (-1723) (-)

Ion 69.00 (68.70 to 69.70): VN061510.D (-1723) (-)

Ion 84.00 (83.70 to 84.70): VN061510.D (-1723) (-)

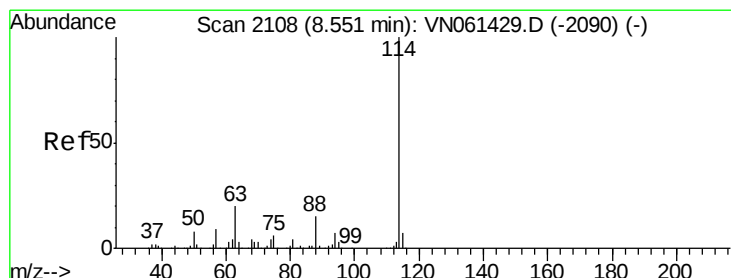
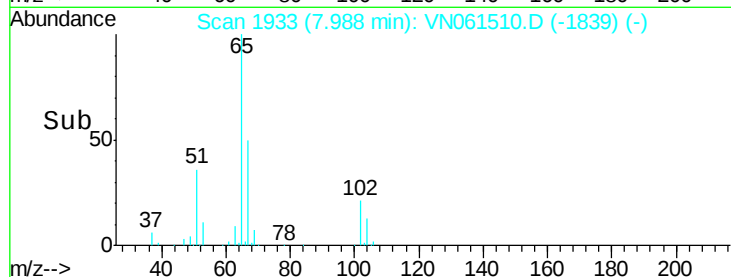
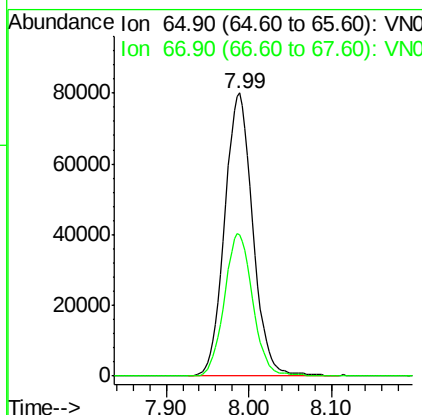
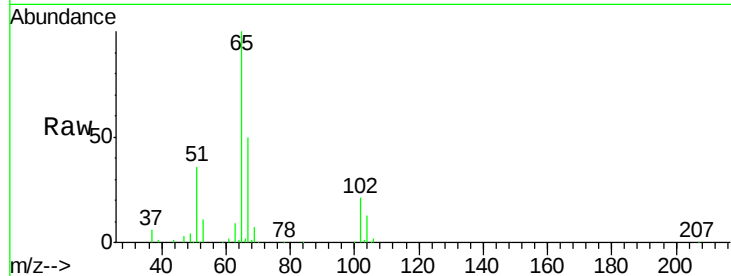




#33
 1,2-Dichloroethane-d4
 Concen: 44.604 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061510.D
 Acq: 20 May 2020 19:00

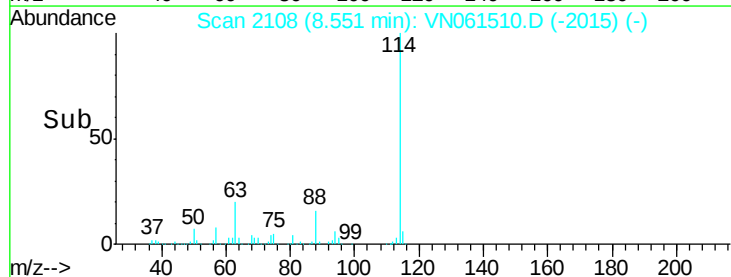
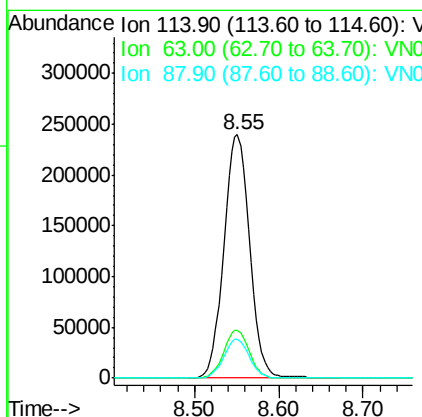
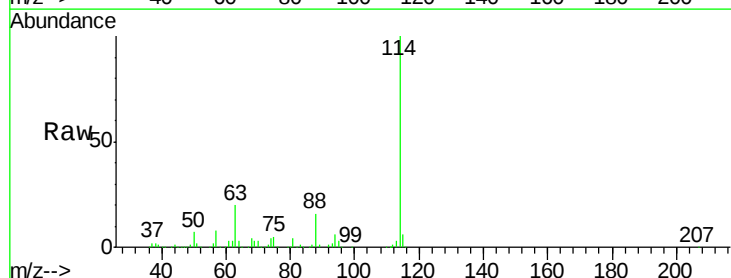
Instrument :
 MSVOA_N
 ClientSampleId :
 S32-0696

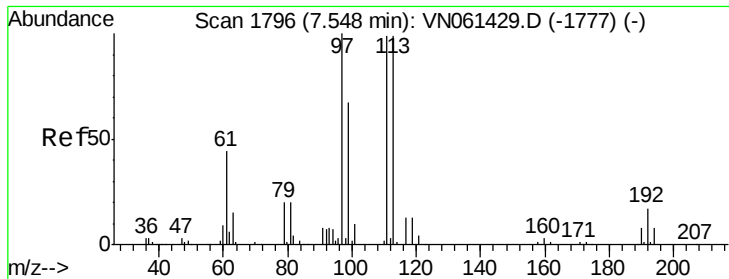
Tot Ion: 65 Resp: 189211
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061510.D
 Acq: 20 May 2020 19:00

Tgt Ion: 114 Resp: 509325
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.8
 88 15.8 0.0 30.8

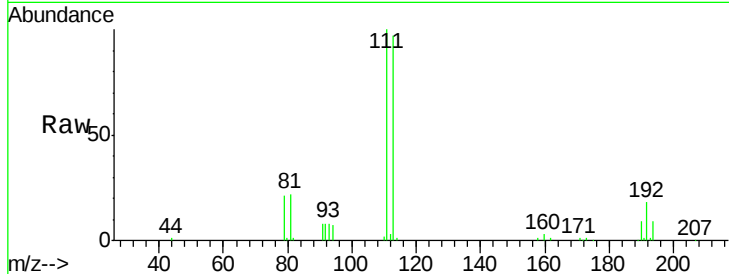




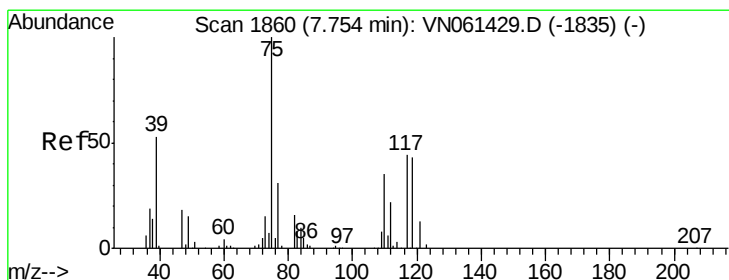
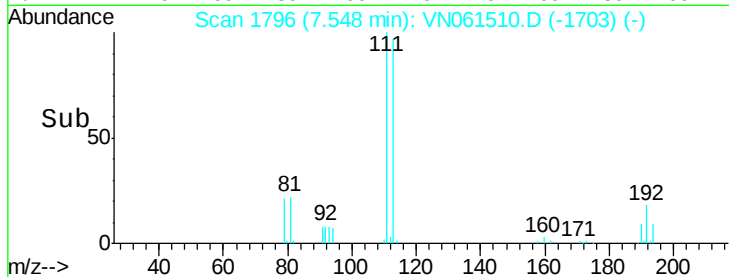
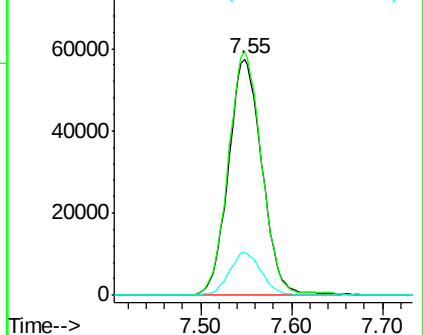
#35
 Dibromofluoromethane
 Concen: 55.265 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN061510.D
 Acq: 20 May 2020 19:00

Instrument :
 MSVOA_N
 ClientSampleId :
 S32-0696

Tot Ion:113 Resp: 147458
 Ion Ratio Lower Upper
 113 100
 111 101.7 80.6 121.0
 192 17.5 13.2 19.8

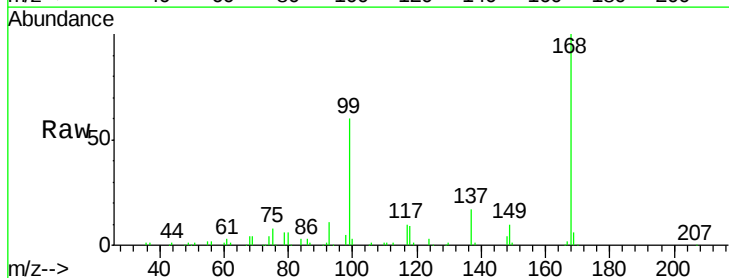


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

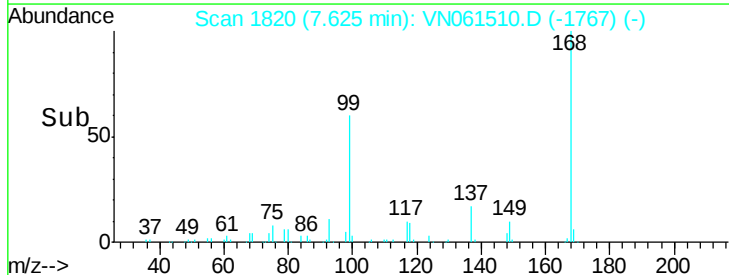
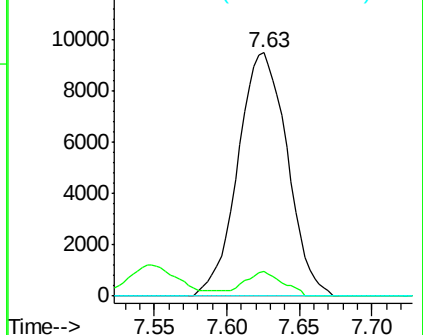


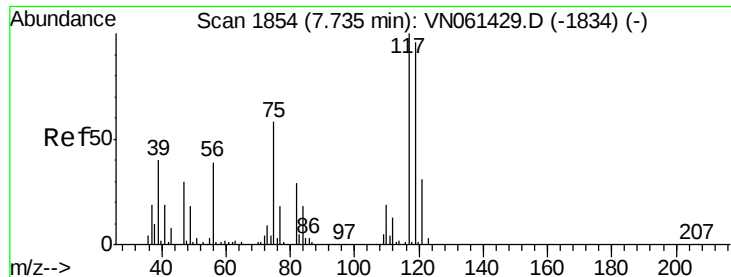
#36
 1,1-Dichloropropene
 Concen: 4.726 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061510.D
 Acq: 20 May 2020 19:00

Tgt Ion: 75 Resp: 22509
 Ion Ratio Lower Upper
 75 100
 110 8.0 17.3 51.9#
 77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.524 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

Instrument :

MSVOA_N

ClientSampled :

S32-0696

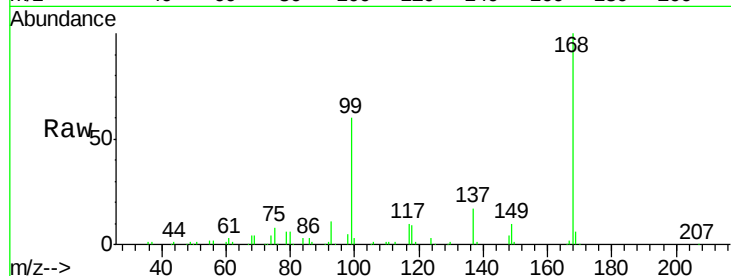
Tot Ion:117 Resp: 28608

Ion Ratio Lower Upper

117 100

119 5.5 77.0 115.6#

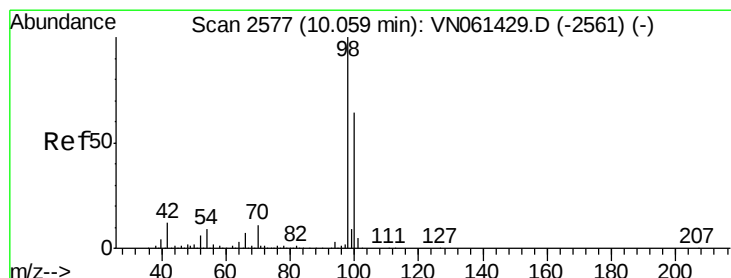
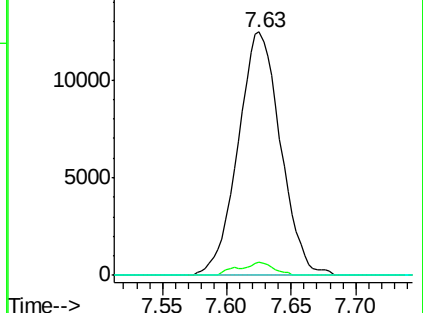
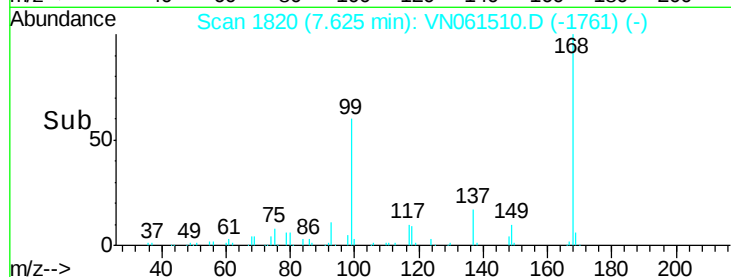
121 0.0 24.7 37.1#



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



#50

Toluene-d8

Concen: 51.466 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061510.D

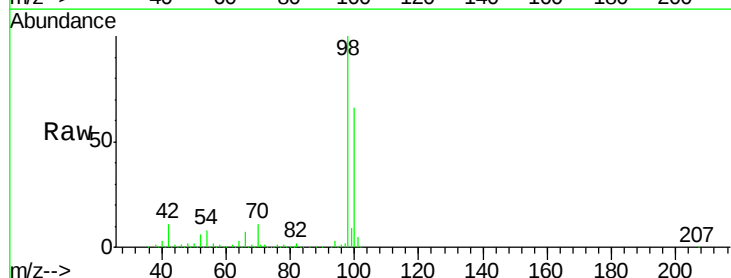
Acq: 20 May 2020 19:00

Tgt Ion: 98 Resp: 636927

Ion Ratio Lower Upper

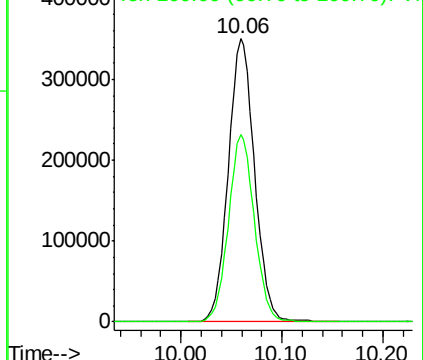
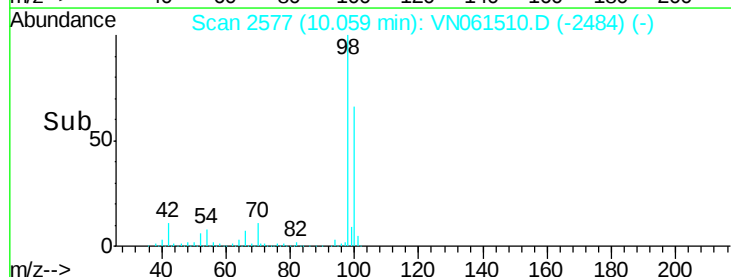
98 100

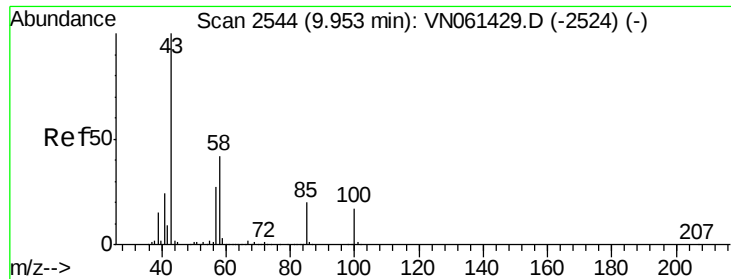
100 65.4 51.8 77.8



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: 0.661 ug/l

RT: 10.06 min Scan# 2576

Delta R.T. 0.10 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

Instrument :

MSVOA_N

ClientSampled :

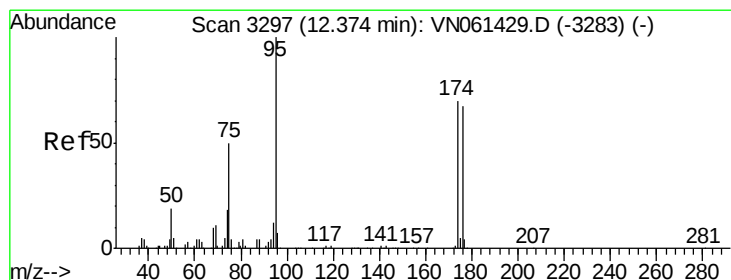
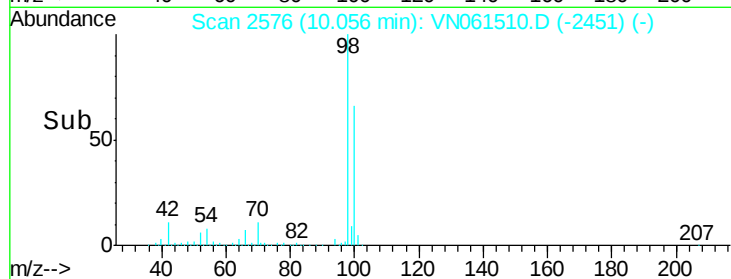
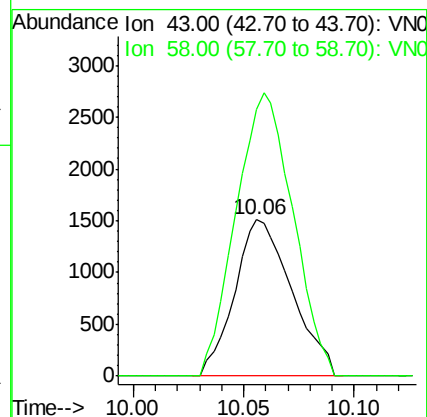
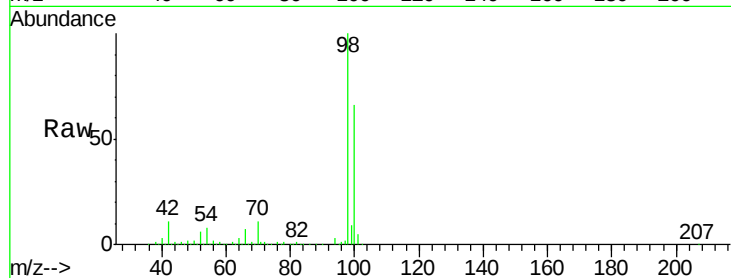
S32-0696

Tot Ion: 43 Resp: 2711

Ion Ratio Lower Upper

43 100

58 180.2 33.4 50.2#



#62

4-Bromofluorobenzene

Concen: 52.091 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

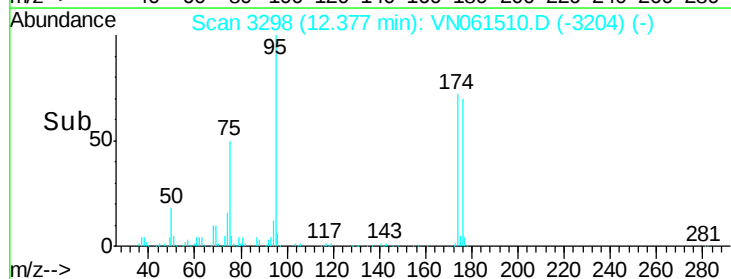
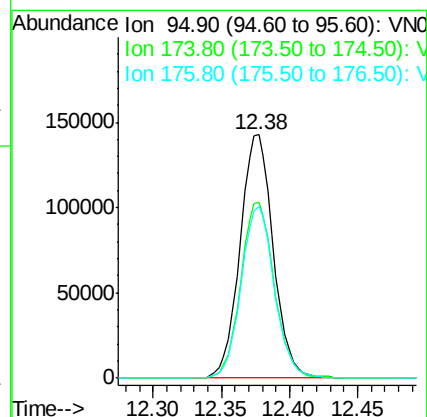
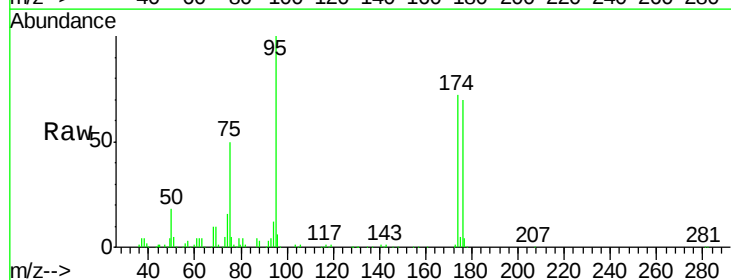
Tgt Ion: 95 Resp: 240855

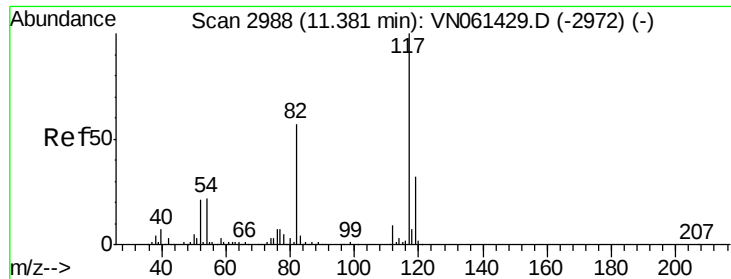
Ion Ratio Lower Upper

95 100

174 73.0 0.0 141.2

176 70.4 0.0 137.6

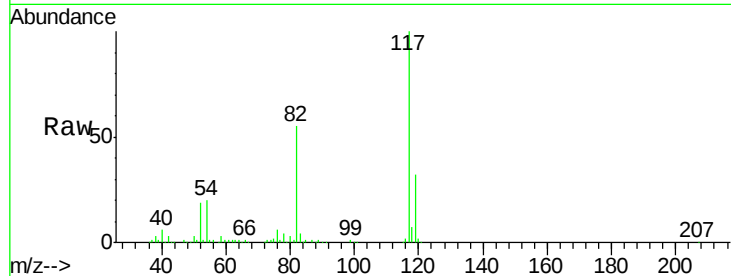




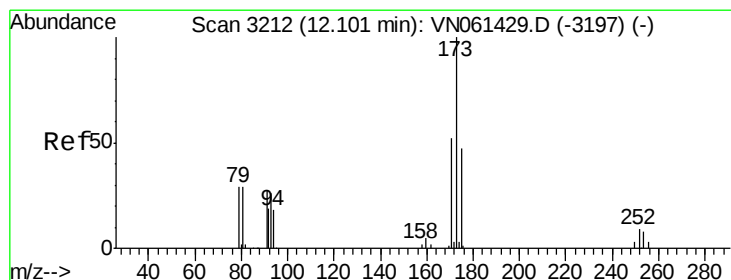
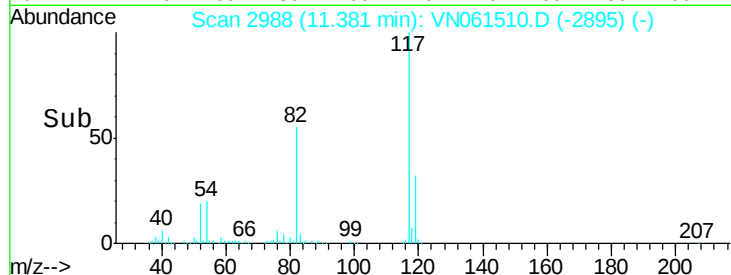
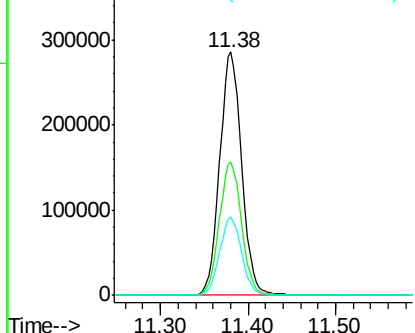
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061510.D
Acq: 20 May 2020 19:00

Instrument :
MSVOA_N
ClientSampleId :
S32-0696

Tot Ion:117 Resp: 497691
Ion Ratio Lower Upper
117 100
82 55.0 45.2 67.8
119 32.1 25.3 37.9

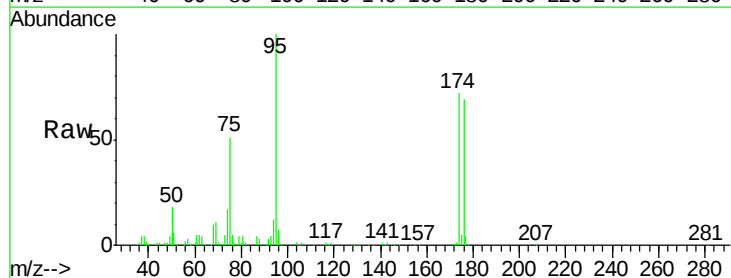


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

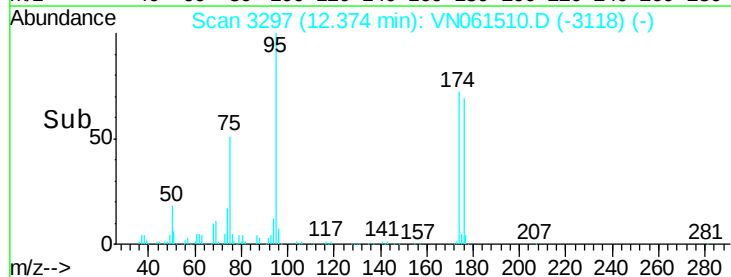
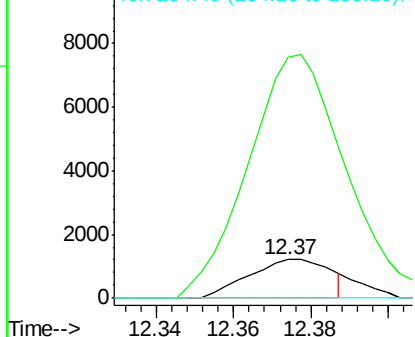


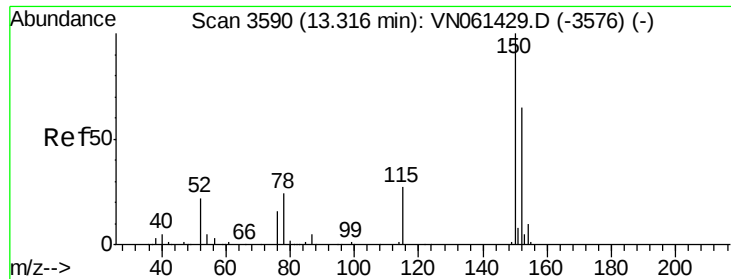
#71
Bromoform
Concen: 2.613 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN061510.D
Acq: 20 May 2020 19:00

Tgt Ion:173 Resp: 1747
Ion Ratio Lower Upper
173 100
175 643.2 23.9 71.8#
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: 13.32 min Scan# 3590

Delta R.T. -0.00 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

Instrument :

MSVOA_N

ClientSampleId :

S32-0696

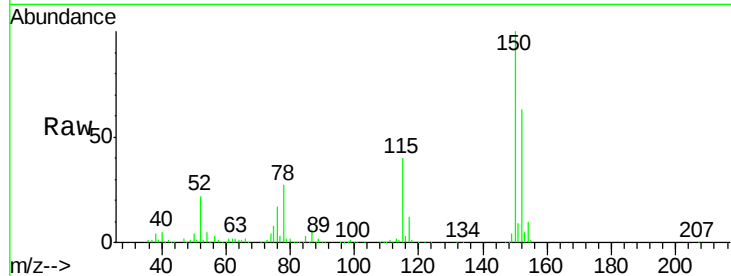
Tot Ion:152 Resp: 221726

Ion Ratio Lower Upper

152 100

115 60.8 30.9 92.5

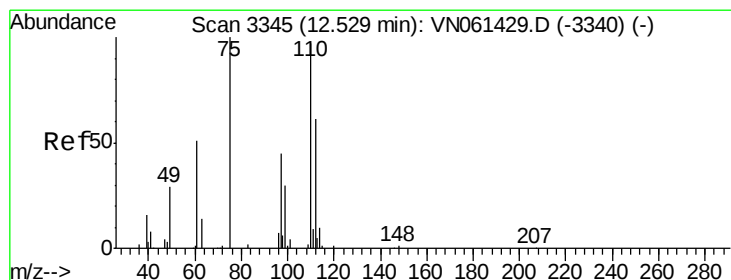
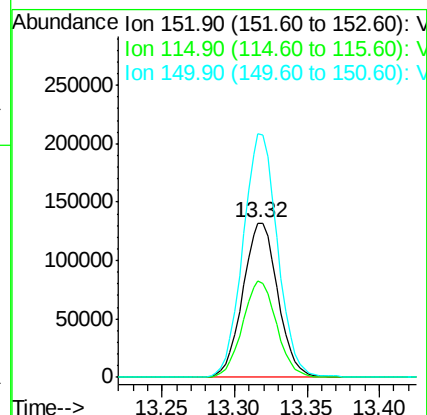
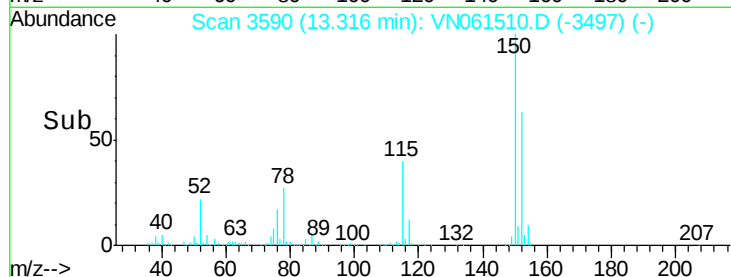
150 156.2 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 25.767 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061510.D

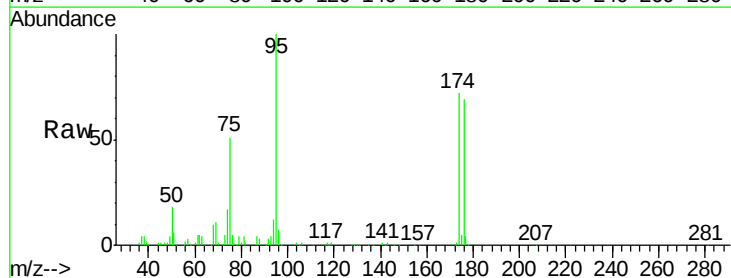
Acq: 20 May 2020 19:00

Tgt Ion: 75 Resp: 122590

Ion Ratio Lower Upper

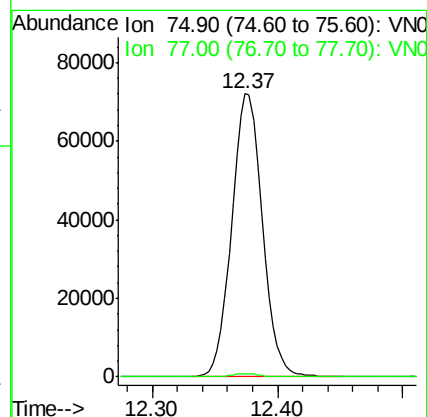
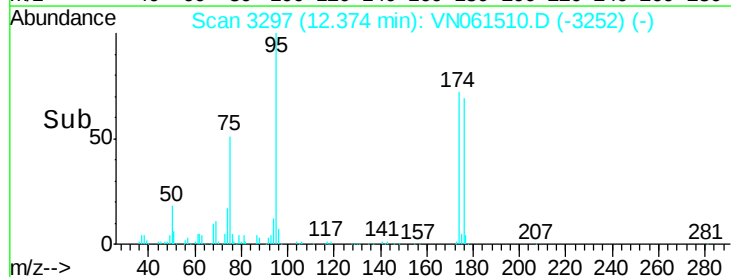
75 100

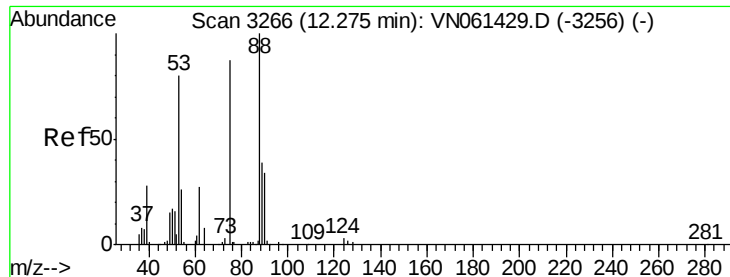
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 68.353 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061510.D

Acq: 20 May 2020 19:00

Instrument :

MSVOA_N

ClientSampleId :

S32-0696

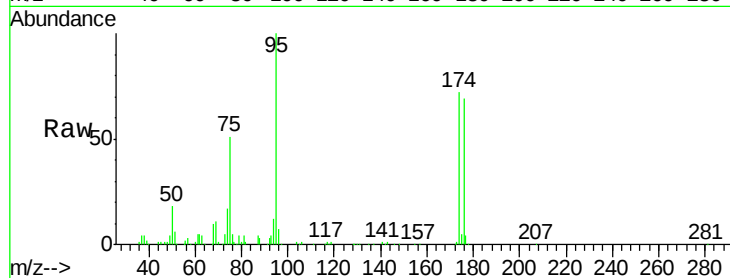
Tot Ion: 75 Resp: 122590

Ion Ratio Lower Upper

75 100

53 0.0 75.2 112.8#

89 0.0 38.2 57.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

