

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052920\
 Data File : VN061576.D
 Acq On : 29 May 2020 18:43
 Operator : JC/MD
 Sample : PB129155ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

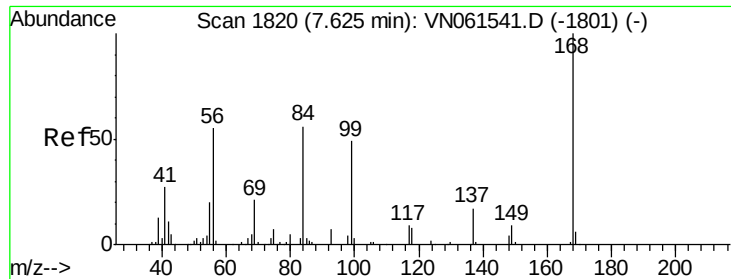
Quant Time: May 30 04:45:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	260242	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	482043	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	487523	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	217120	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	171262	55.23	ug/l	0.00
Spiked Amount			Recovery	=	110.46%	
35) Dibromofluoromethane	7.55	113	126337	51.66	ug/l	0.00
Spiked Amount			Recovery	=	103.32%	
50) Toluene-d8	10.06	98	603590	53.26	ug/l	0.00
Spiked Amount			Recovery	=	106.52%	
62) 4-Bromofluorobenzene	12.38	95	226004	54.67	ug/l	0.00
Spiked Amount			Recovery	=	109.34%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	644	1.562	ug/l #	72
16) Acetone	3.78	43	10183	5.861	ug/l	93
18) Methyl Acetate	4.27	43	747	0.266	ug/l #	61
20) Methylene Chloride	4.50	84	4144	Below Cal	#	81
25) 2-Butanone	6.80	43	5861	3.989	ug/l #	81
29) Tetrahydrofuran	7.16	42	412	0.425	ug/l #	25
31) Cyclohexane	7.63	56	5650	1.293	ug/l #	36
36) 1,1-Dichloropropene	7.63	75	20652	4.840	ug/l #	44
38) Carbon Tetrachloride	7.63	117	27836	6.763	ug/l #	17
43) Isopropyl Acetate	8.13	43	65834	10.647	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	1396	0.447	ug/l #	44
48) Methyl methacrylate	9.15	41	4097	1.473	ug/l #	5
49) 1,4-Dioxane	9.24	88	130	3.016	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	5905	1.695	ug/l	96
52) Toluene	10.12	92	3085	0.359	ug/l	90
54) cis-1,3-Dichloropropene	9.87	75	35588	6.467	ug/l #	63
56) Ethyl methacrylate	10.52	69	1072	0.224	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	5816	1.062	ug/l #	42
59) 2-Hexanone	10.74	43	73543	29.387	ug/l #	48
71) Bromoform	12.38	173	1780	0.612	ug/l #	1
74) N-amyl acetate	12.00	43	2548	0.511	ug/l #	41
76) 1,2,3-Trichloropropane	12.38	75	112606	28.522	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	5454	0.412	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.38	75	112606	72.938	ug/l #	15

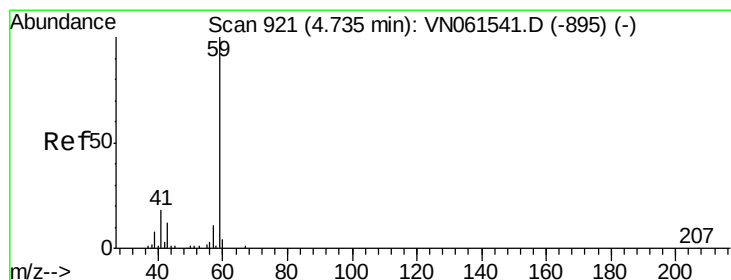
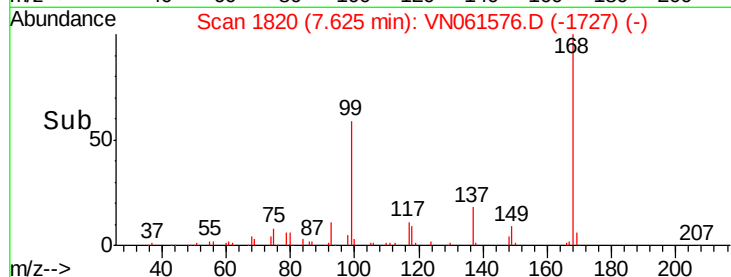
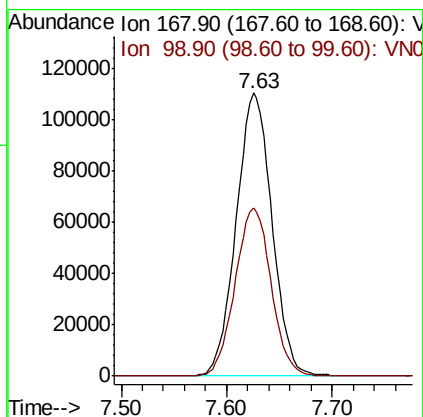
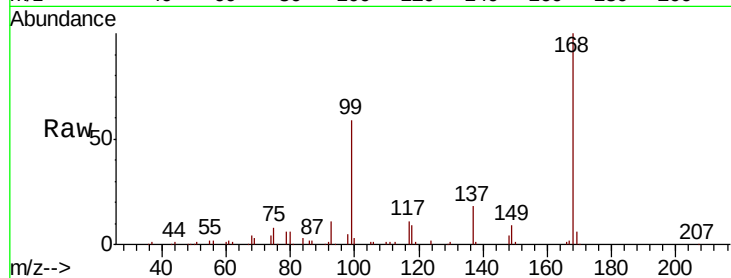
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.00 min
Lab File: VN061576.D
Acq: 29 May 2020 18:43

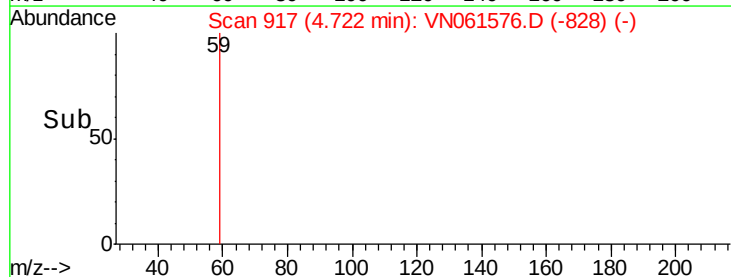
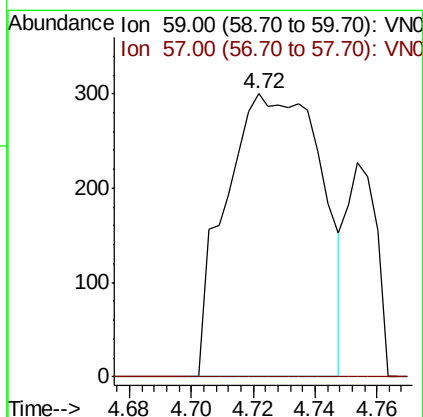
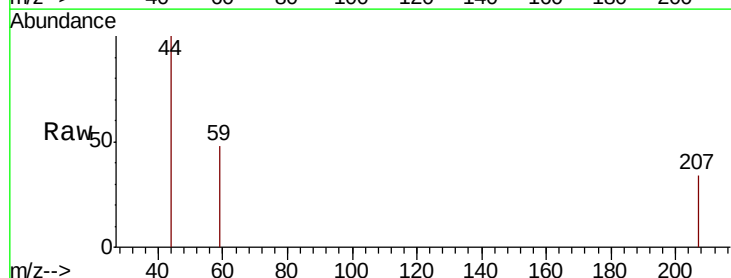
Instrument :
MSVOA_N
ClientSampled :

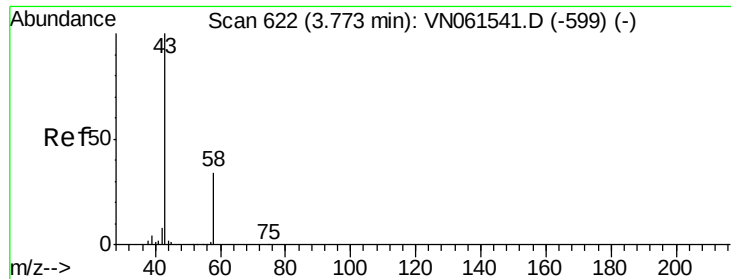
Tot Ion:168 Resp: 260242
Ion Ratio Lower Upper
168 100
99 59.4 45.0 67.4



#11
Tert butyl alcohol
Concen: 1.562 ug/l
RT: 4.72 min Scan# 917
Delta R.T. -0.01 min
Lab File: VN061576.D
Acq: 29 May 2020 18:43

Tgt Ion: 59 Resp: 644
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#16

Acetone

Concen: 5.861 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061576.D

Acq: 29 May 2020 18:43

Instrument :

MSVOA_N

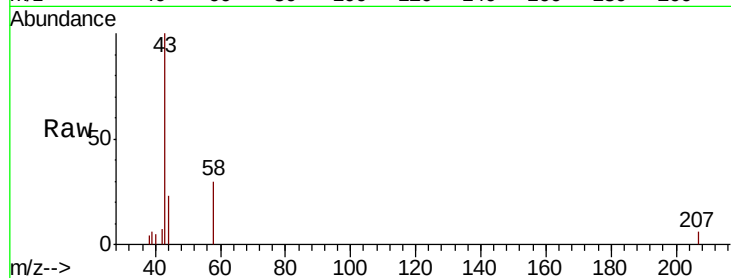
ClientSampleId :

Tot Ion: 43 Resp: 10183

Ion Ratio Lower Upper

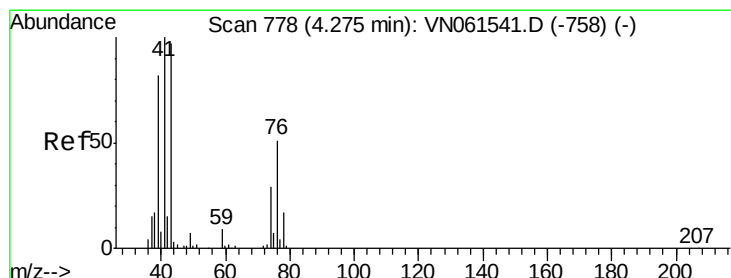
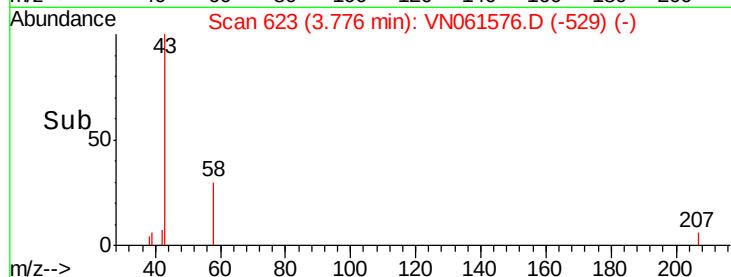
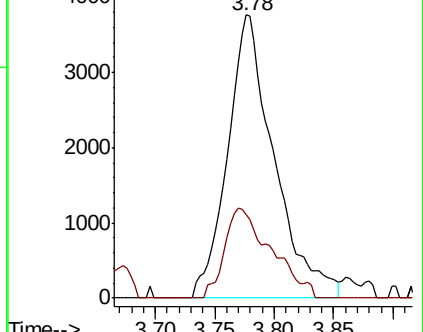
43 100

58 29.7 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN061576.D (-529) (-)

Ion 58.00 (57.70 to 58.70): VN061576.D (-529) (-)



#18

Methyl Acetate

Concen: 0.266 ug/l

RT: 4.27 min Scan# 776

Delta R.T. -0.01 min

Lab File: VN061576.D

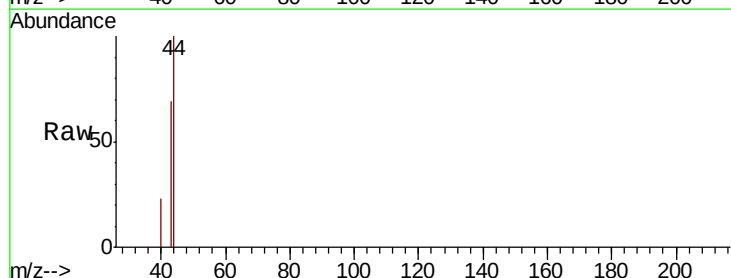
Acq: 29 May 2020 18:43

Tgt Ion: 43 Resp: 747

Ion Ratio Lower Upper

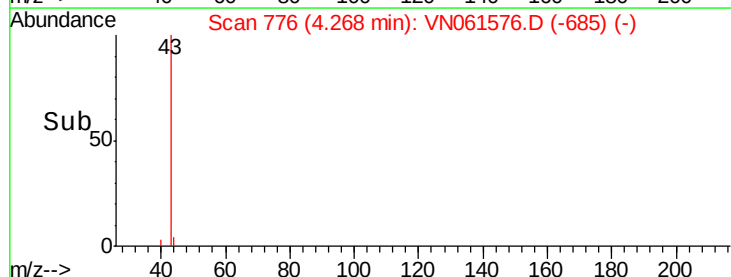
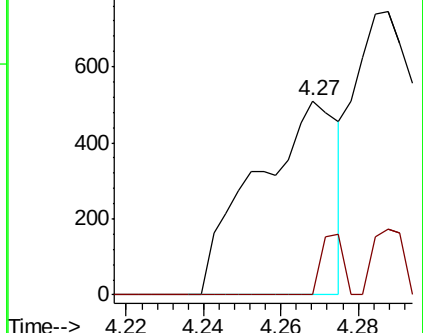
43 100

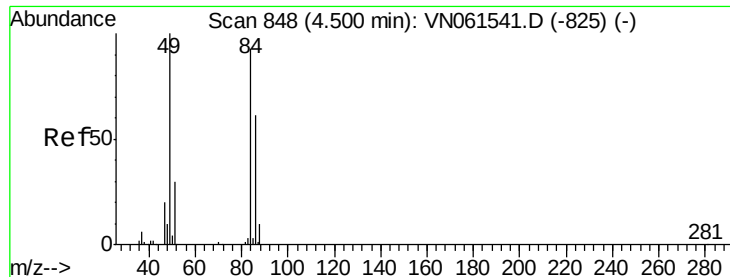
74 8.0 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VN061576.D (-685) (-)

Ion 74.00 (73.70 to 74.70): VN061576.D (-685) (-)

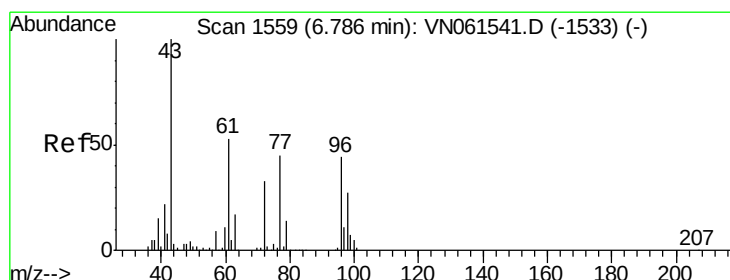
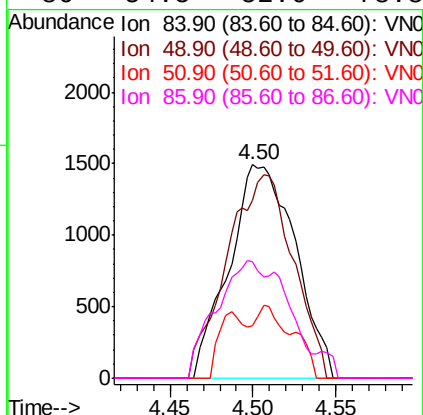
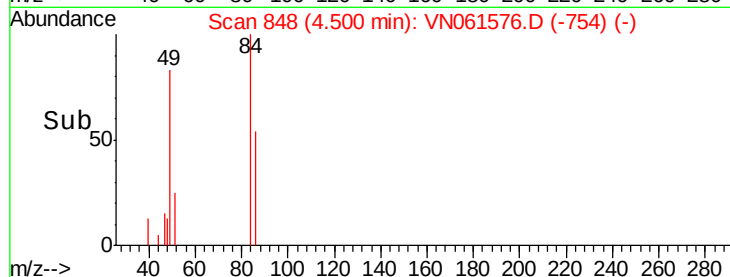
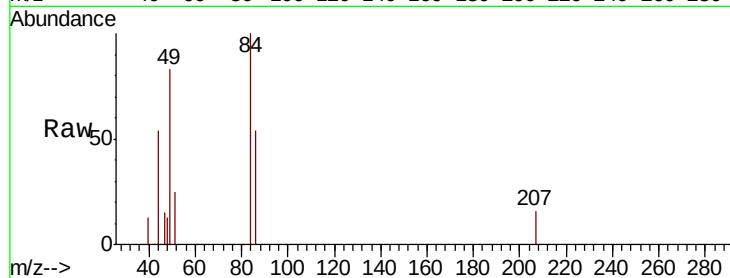




#20
Methylene Chloride
Concen: Below Cal
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN061576.D
Acq: 29 May 2020 18:43

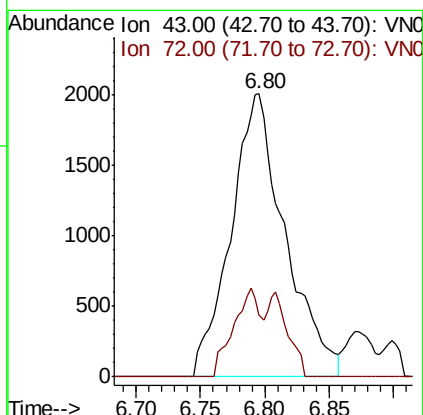
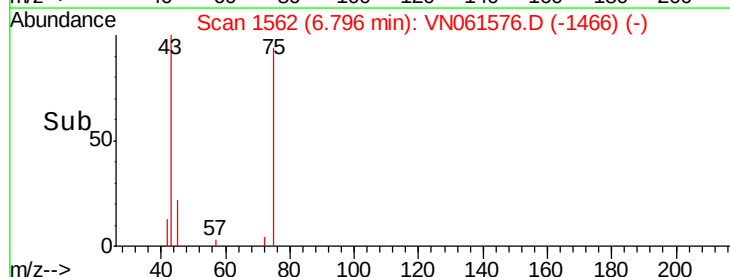
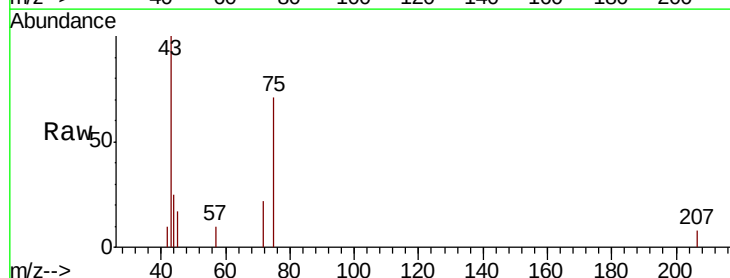
Instrument :
MSVOA_N
ClientSampled :

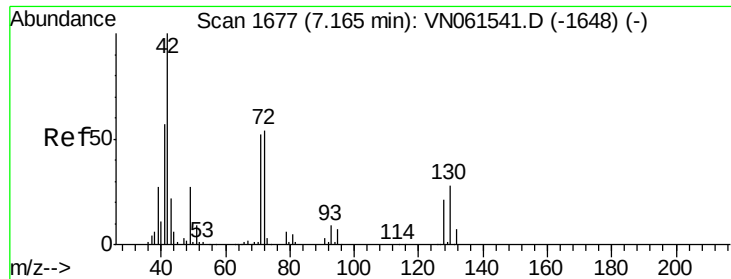
Tot Ion: 84 Resp: 4144
Ion Ratio Lower Upper
84 100
49 83.3 85.8 128.8#
51 24.8 26.2 39.2#
86 54.5 52.6 78.8



#25
2-Butanone
Concen: 3.989 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN061576.D
Acq: 29 May 2020 18:43

Tgt Ion: 43 Resp: 5861
Ion Ratio Lower Upper
43 100
72 22.1 26.0 39.0#

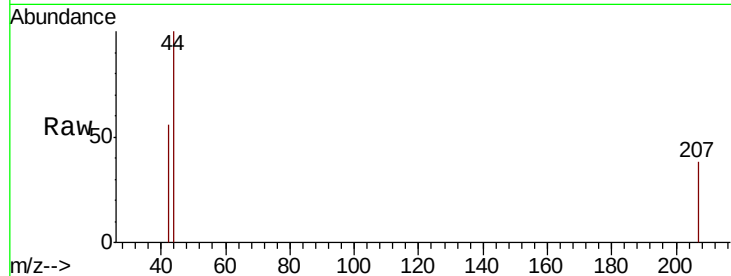




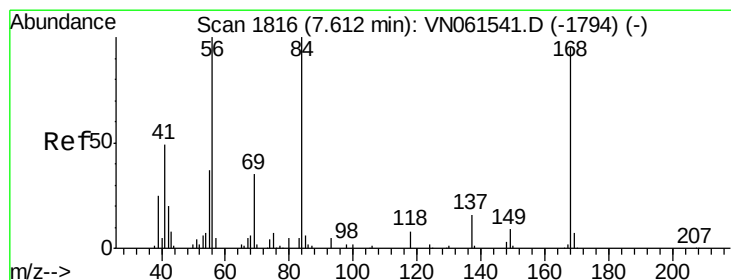
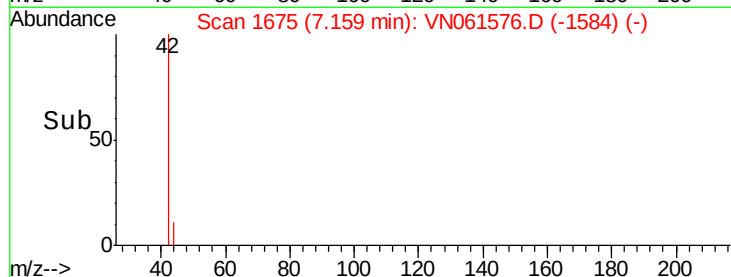
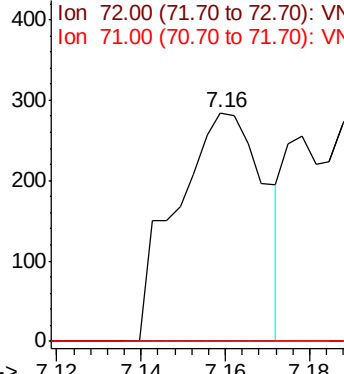
#29
Tetrahydrofuran
Concen: 0.425 ug/l
RT: 7.16 min Scan# 1675
Delta R.T. -0.01 min
Lab File: VN061576.D
Acq: 29 May 2020 18:43

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 42 Resp: 412
Ion Ratio Lower Upper
42 100
72 0.0 43.6 65.4#
71 0.0 41.2 61.8#

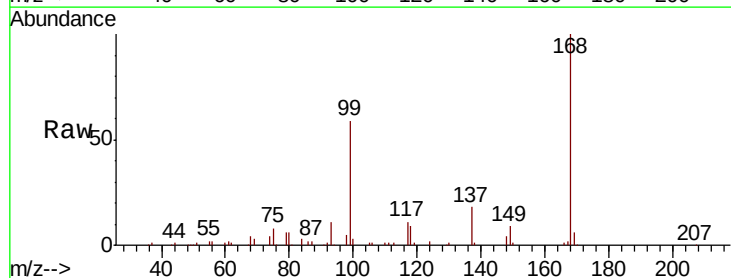


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

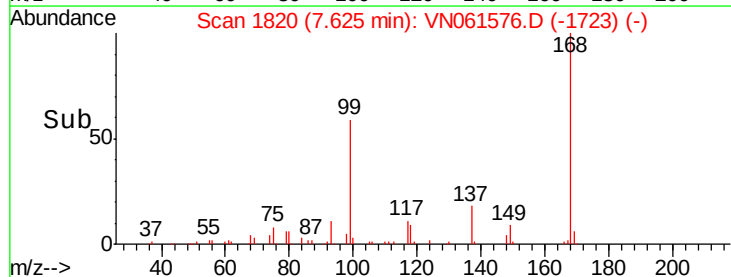
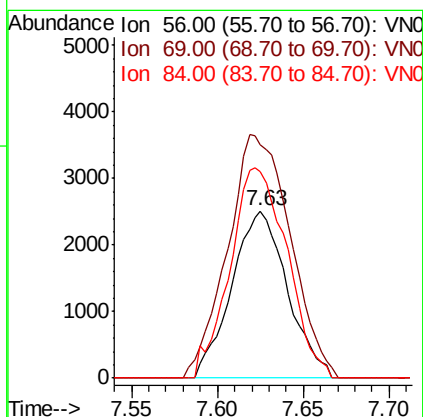


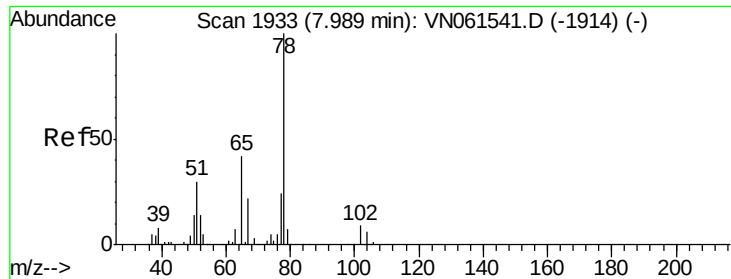
#31
Cyclohexane
Concen: 1.293 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061576.D
Acq: 29 May 2020 18:43

Tgt Ion: 56 Resp: 5650
Ion Ratio Lower Upper
56 100
69 139.2 27.8 41.8#
84 123.4 79.9 119.9#



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

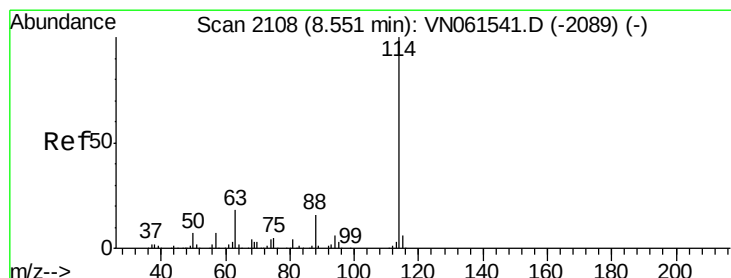
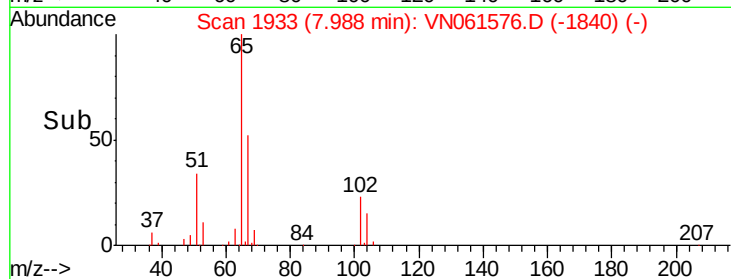
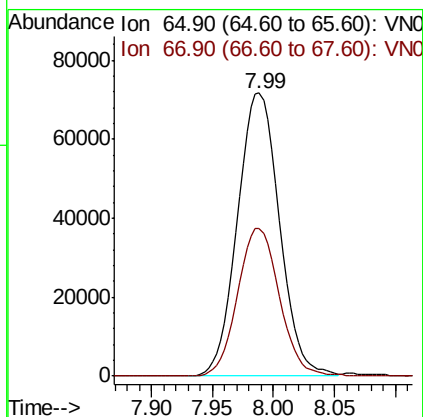
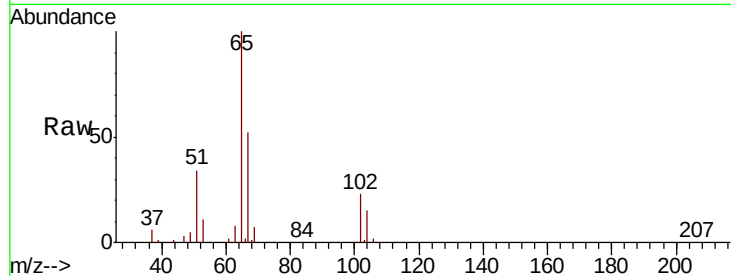




#33
 1,2-Dichloroethane-d4
 Concen: 55.235 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN061576.D
 Acq: 29 May 2020 18:43

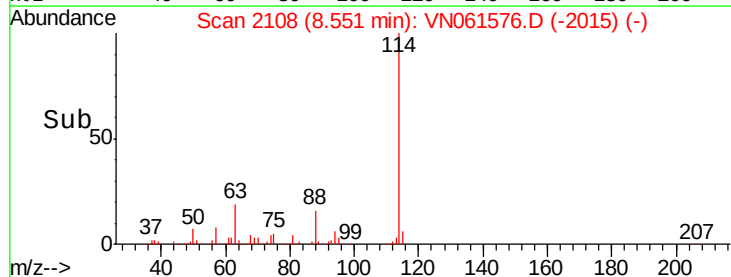
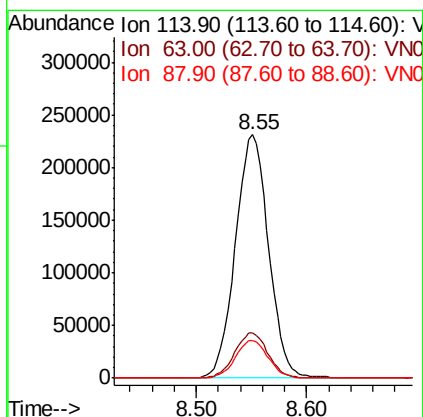
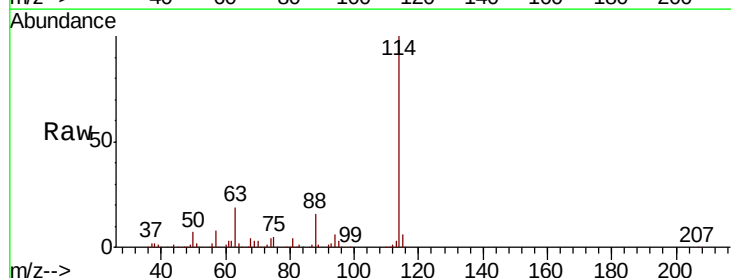
Instrument :
 MSVOA_N
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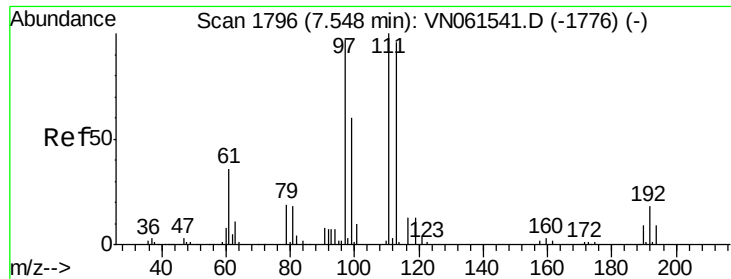
Tot Ion: 65 Resp: 171262
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061576.D
 Acq: 29 May 2020 18:43

Tgt Ion: 114 Resp: 482043
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 35.8
 88 15.6 0.0 31.0

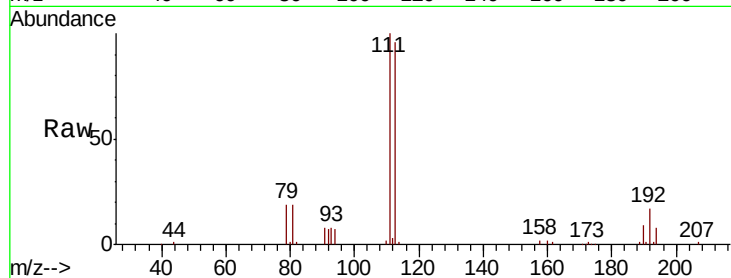




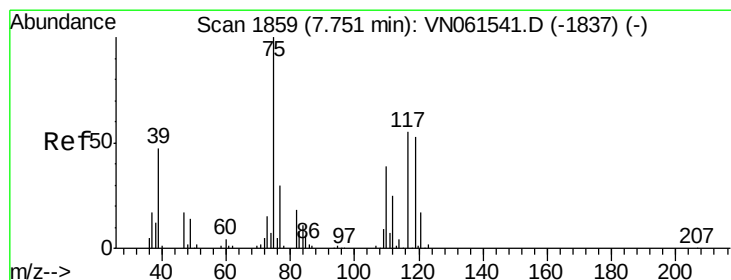
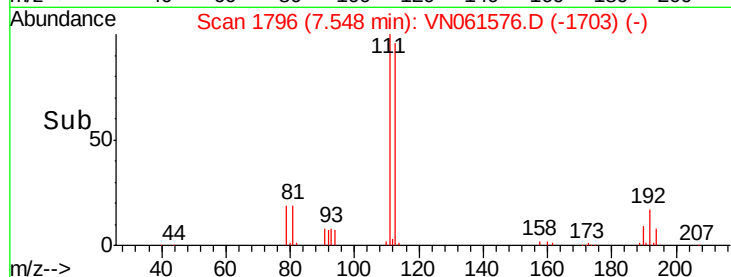
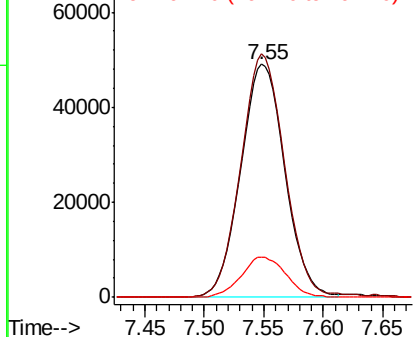
#35
 Dibromofluoromethane
 Concen: 51.665 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN061576.D
 Acq: 29 May 2020 18:43

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	83.4	125.0
192	17.5	15.4	23.2

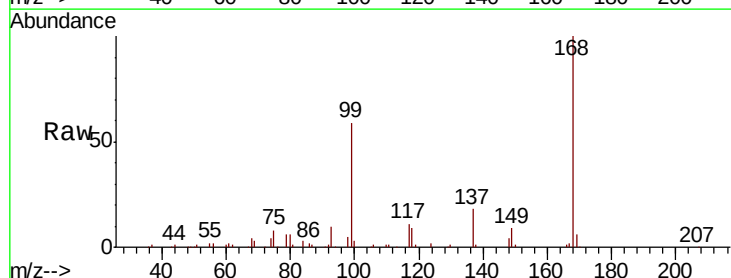


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

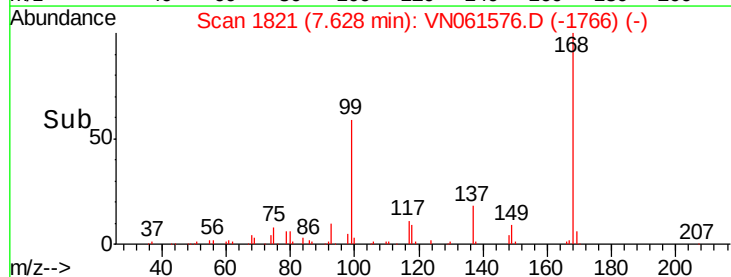
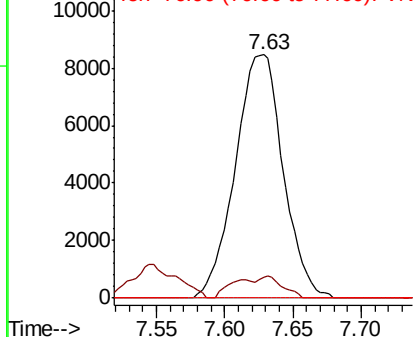


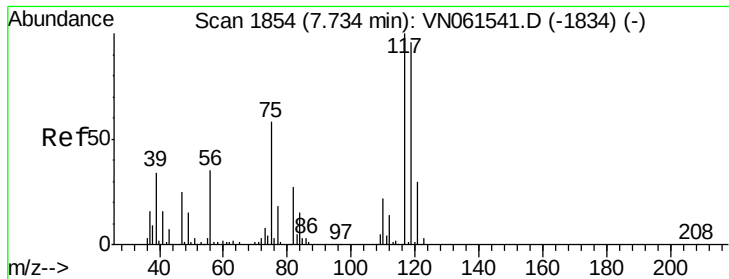
#36
 1,1-Dichloropropene
 Concen: 4.840 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN061576.D
 Acq: 29 May 2020 18:43

Tgt Ion	Ratio	Lower	Upper
75	100		
110	4.5	19.5	58.5#
77	0.0	24.7	37.1#



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: 6.763 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061576.D

Acq: 29 May 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

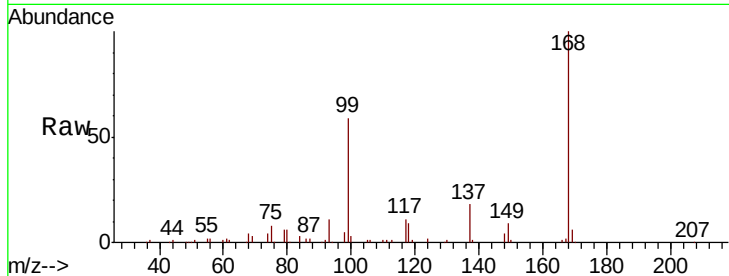
Tot Ion:117 Resp: 27836

Ion Ratio Lower Upper

117 100

119 5.9 76.5 114.7#

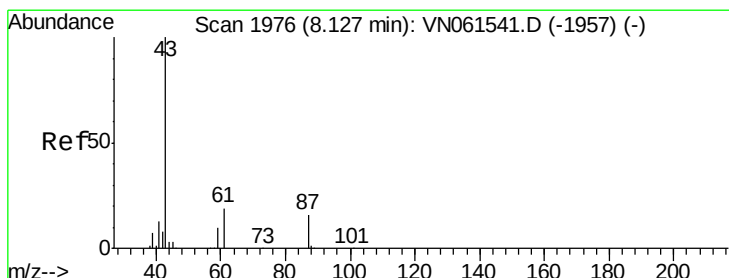
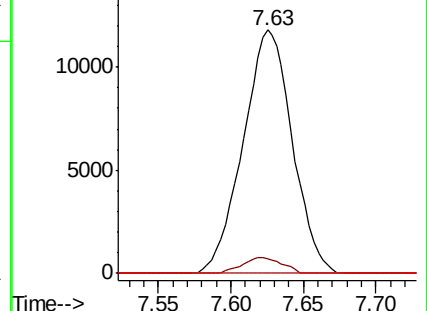
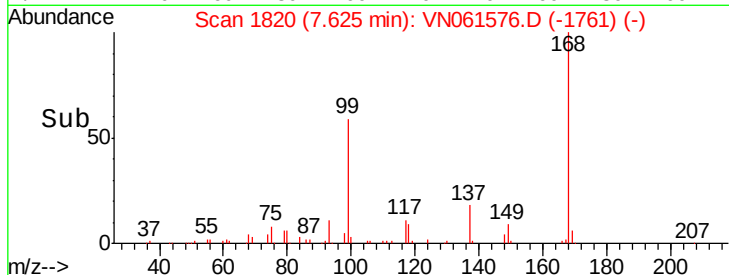
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 10.647 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN061576.D

Acq: 29 May 2020 18:43

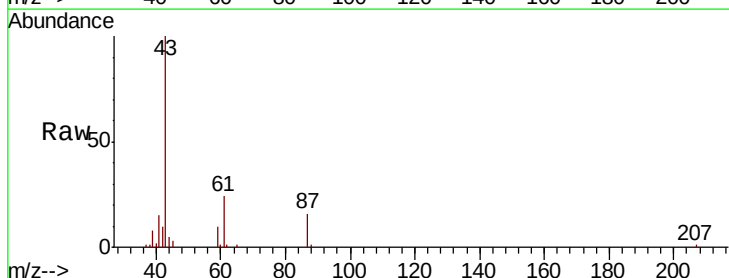
Tgt Ion: 43 Resp: 65834

Ion Ratio Lower Upper

43 100

61 21.7 23.6 35.4#

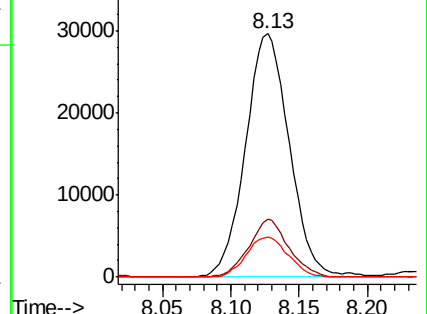
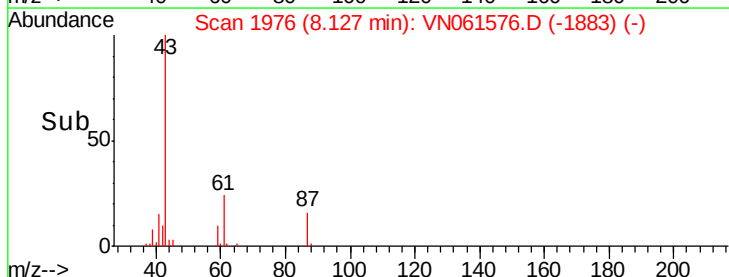
87 15.7 13.0 19.6

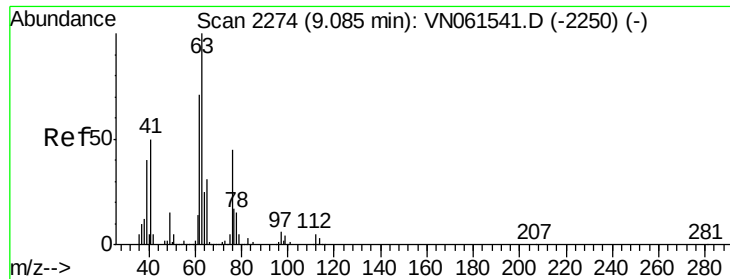


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

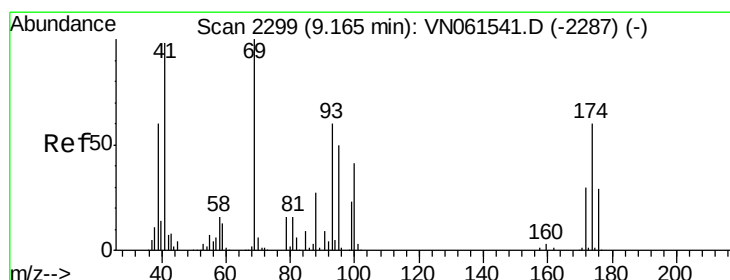
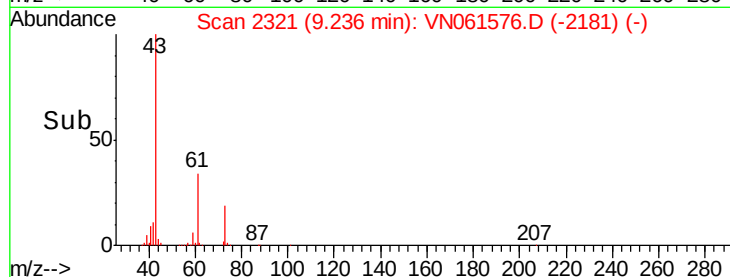
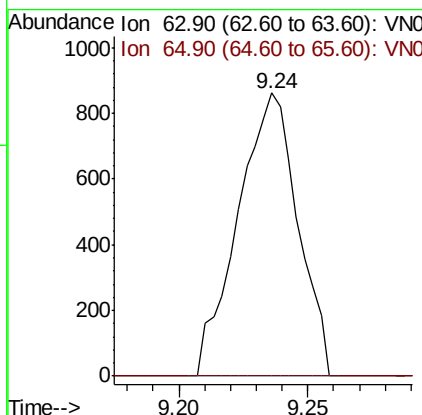
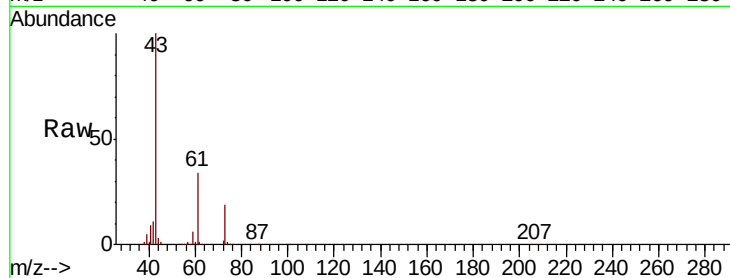




#45
 1,2-Dichloropropane
 Concen: 0.447 ug/l
 RT: 9.24 min Scan# 2321
 Delta R.T. 0.15 min
 Lab File: VN061576.D
 Acq: 29 May 2020 18:43

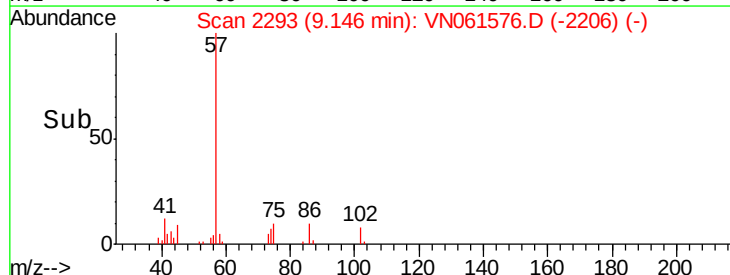
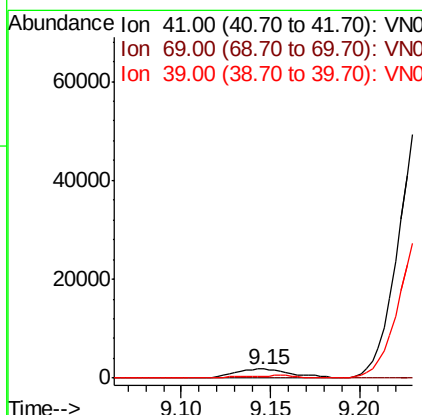
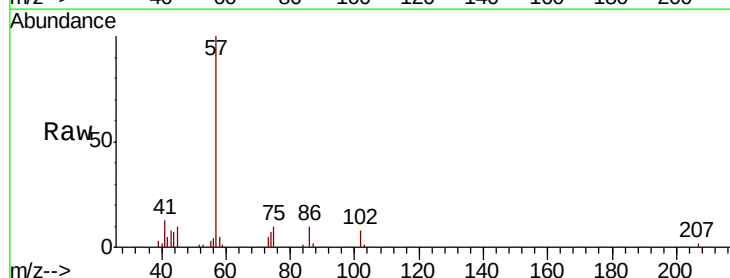
Instrument :
 MSVOA_N
 ClientSampleId :

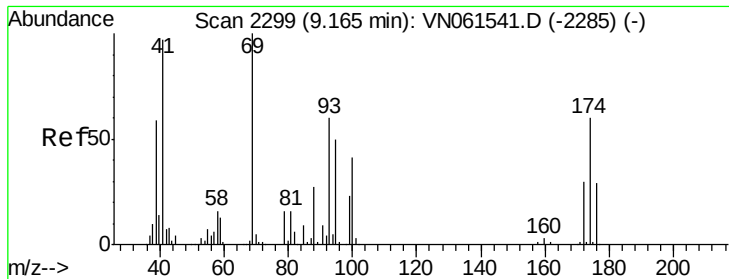
Tot Ion: 63 Resp: 1396
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.7 37.1#



#48
 Methyl methacrylate
 Concen: 1.473 ug/l
 RT: 9.15 min Scan# 2293
 Delta R.T. -0.02 min
 Lab File: VN061576.D
 Acq: 29 May 2020 18:43

Tgt Ion: 41 Resp: 4097
 Ion Ratio Lower Upper
 41 100
 69 0.0 83.9 125.9#
 39 0.0 52.1 78.1#





#49

1,4-Dioxane

Concen: 3.016 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.07 min

Lab File: VN061576.D

Acq: 29 May 2020 18:43

Instrument :
MSVOA_N
ClientSampleId :

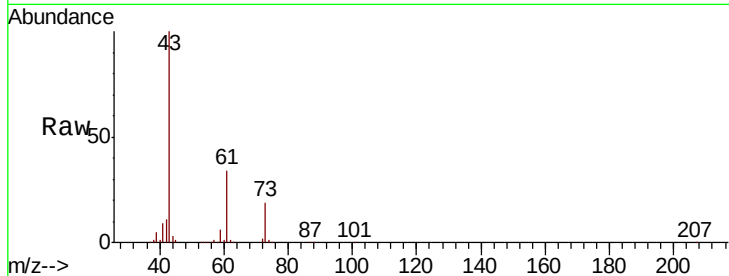
Tot Ion: 88 Resp: 130

Ion Ratio Lower Upper

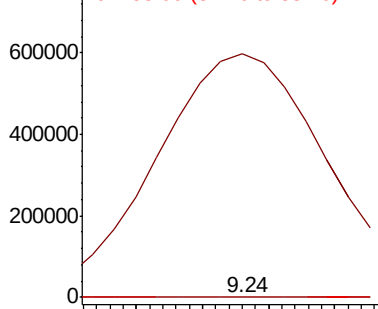
88 100

43 853154.6 23.1 34.7#

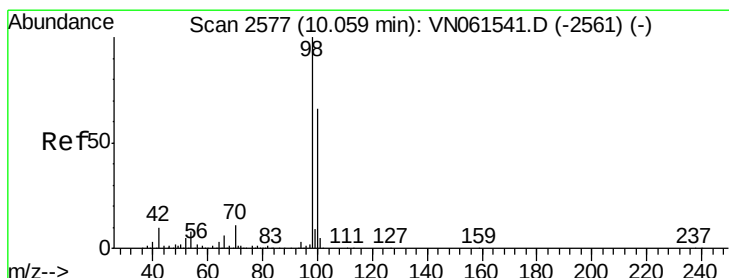
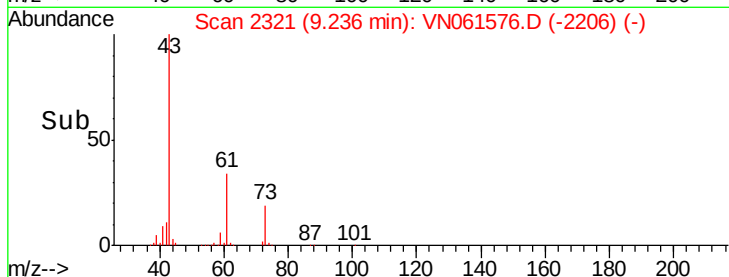
58 3750.8 48.3 72.5#



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



Time-->



#50

Toluene-d8

Concen: 53.265 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061576.D

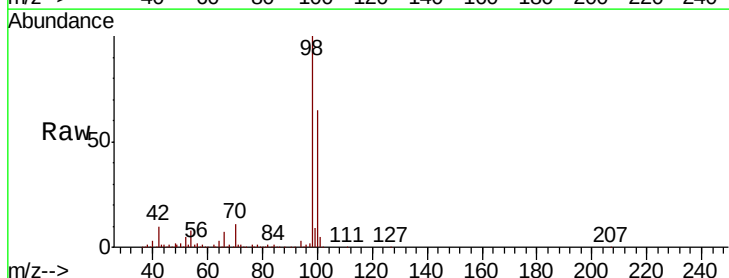
Acq: 29 May 2020 18:43

Tgt Ion: 98 Resp: 603590

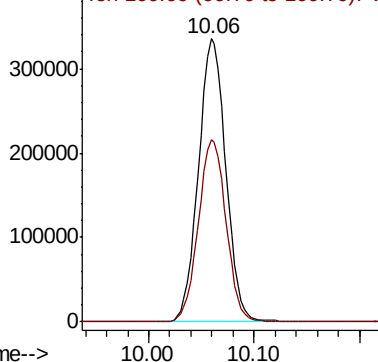
Ion Ratio Lower Upper

98 100

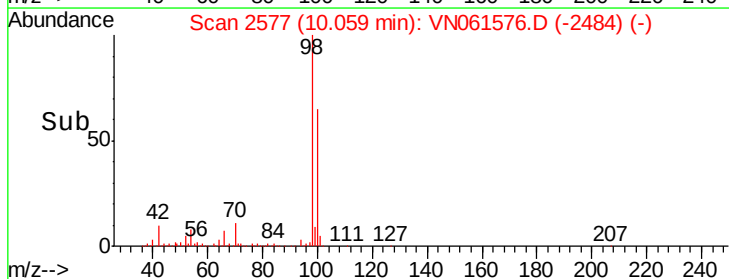
100 65.3 52.8 79.2

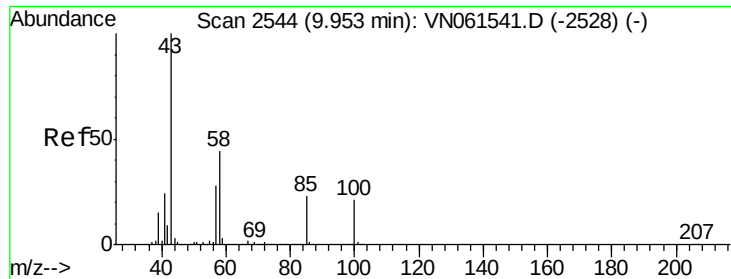


Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0



Time-->

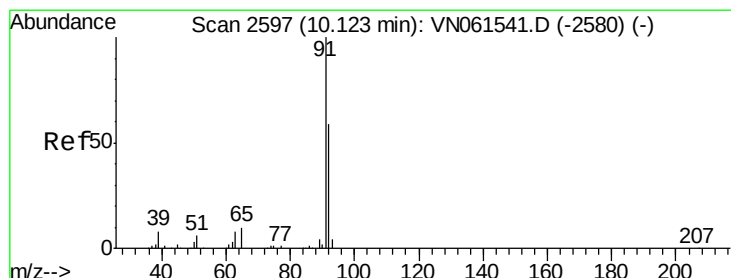
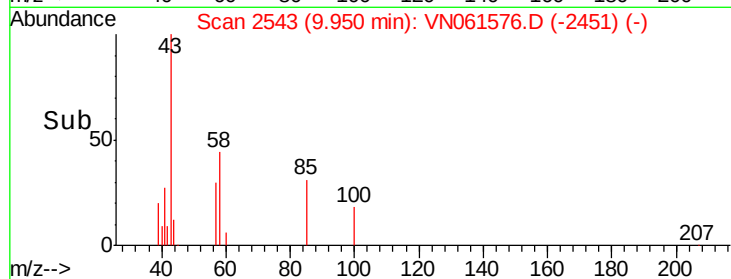
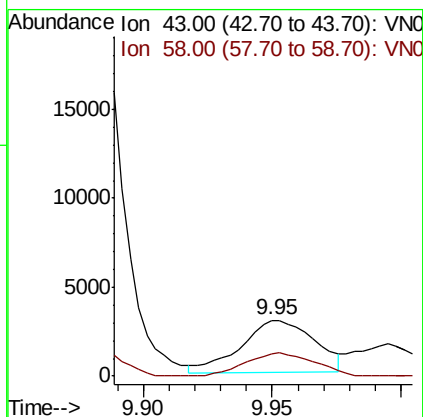
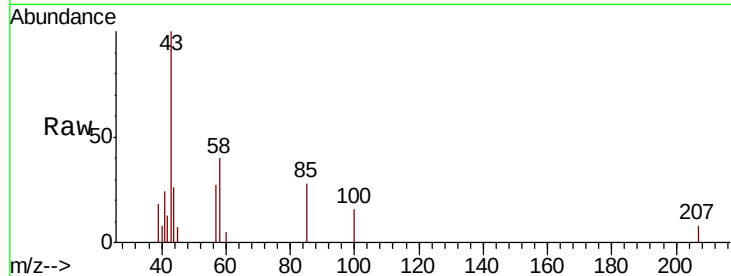




#51
 4-Methyl-2-Pentanone
 Concen: 1.695 ug/l
 RT: 9.95 min Scan# 2543
 Delta R.T. -0.00 min
 Lab File: VN061576.D
 Acq: 29 May 2020 18:43

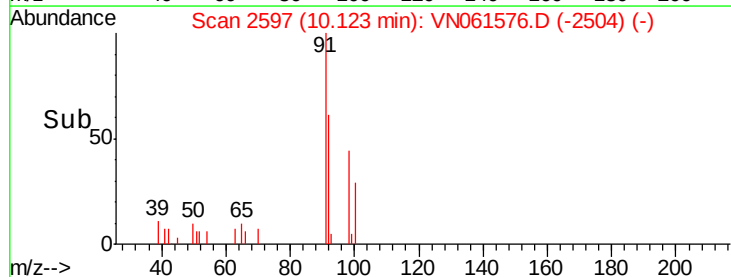
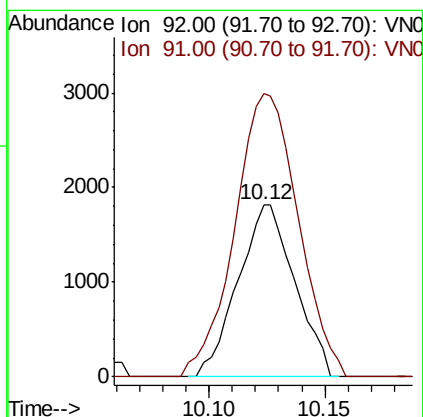
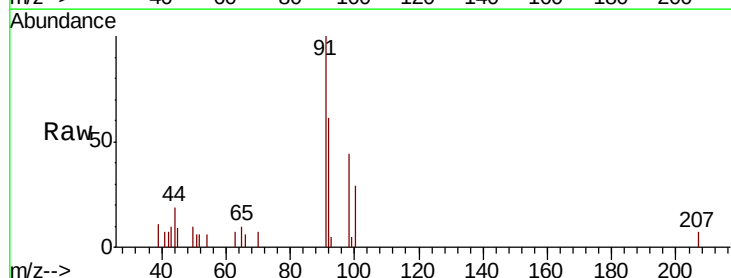
Instrument :
 MSVOA_N
 ClientSampled :

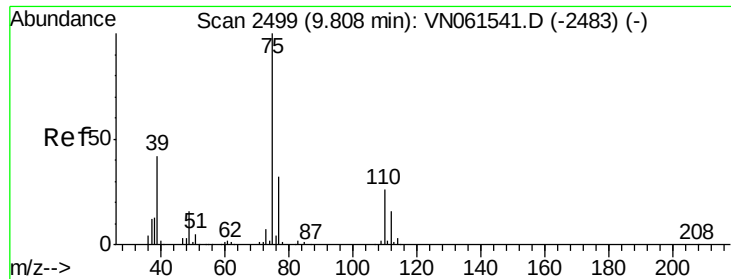
Tot Ion: 43 Resp: 5905
 Ion Ratio Lower Upper
 43 100
 58 41.5 35.0 52.6



#52
 Toluene
 Concen: 0.359 ug/l
 RT: 10.12 min Scan# 2597
 Delta R.T. -0.00 min
 Lab File: VN061576.D
 Acq: 29 May 2020 18:43

Tgt Ion: 92 Resp: 3085
 Ion Ratio Lower Upper
 92 100
 91 184.3 136.4 204.6



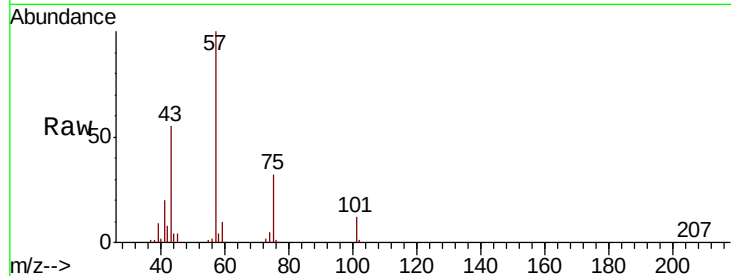


#54

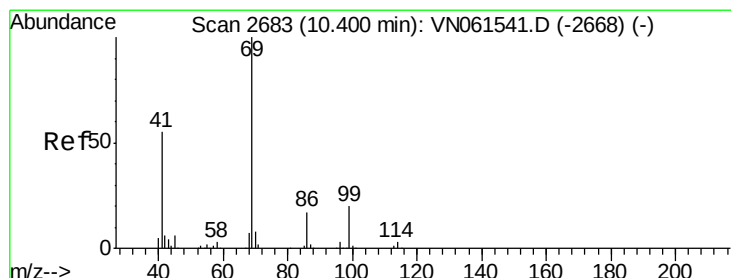
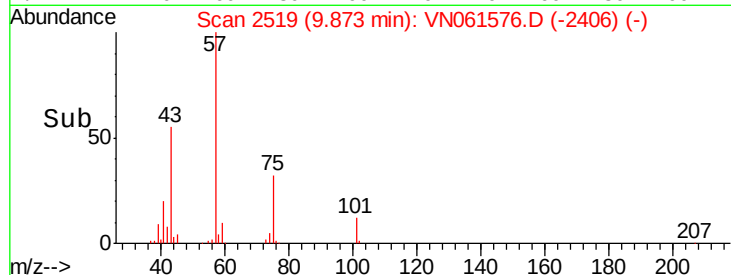
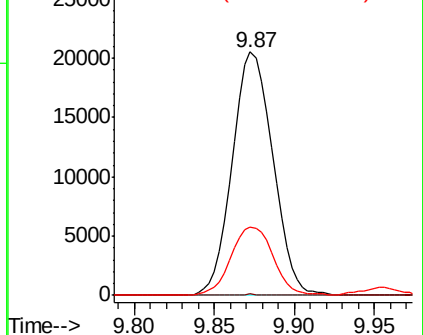
cis-1,3-Dichloropropene
 Concen: 6.467 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN061576.D
 Acq: 29 May 2020 18:43

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.8	25.4	38.2#
39	28.3	33.8	50.6#



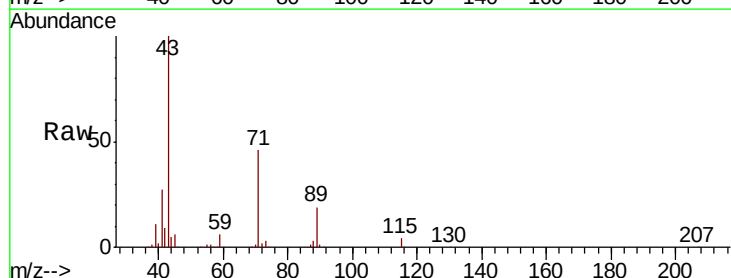
Abundance Ion 74.90 (74.60 to 75.60): VNC
 Ion 76.90 (76.60 to 77.60): VNC
 Ion 39.00 (38.70 to 39.70): VNC



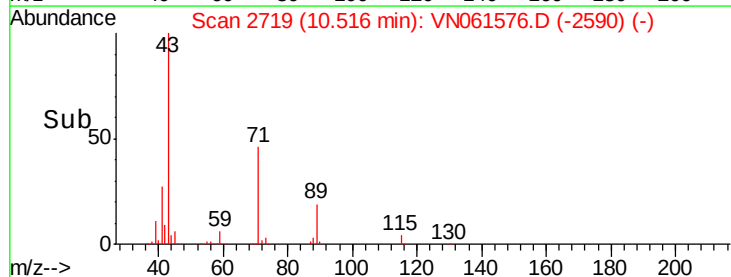
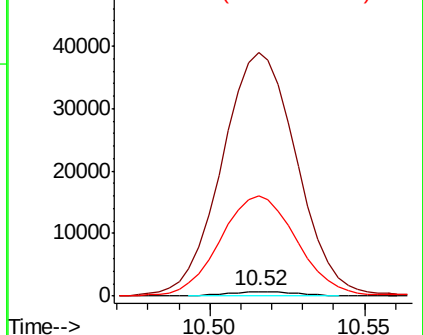
#56

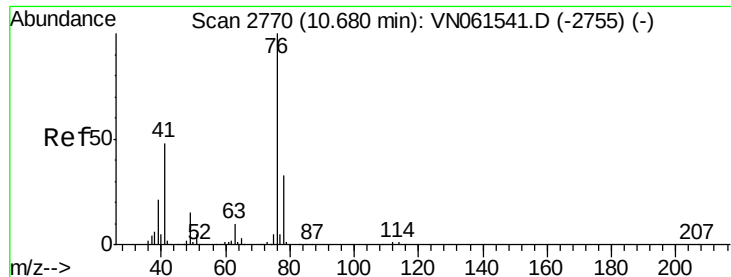
Ethyl methacrylate
 Concen: 0.224 ug/l
 RT: 10.52 min Scan# 2719
 Delta R.T. 0.12 min
 Lab File: VN061576.D
 Acq: 29 May 2020 18:43

Tgt Ion	Ratio	Lower	Upper
69	100		
41	6163.0	43.5	65.3#
39	2594.2	27.0	40.6#



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

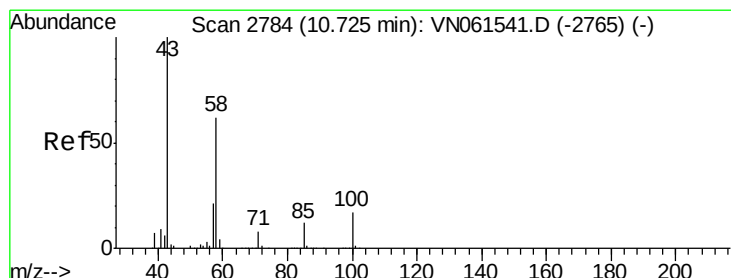
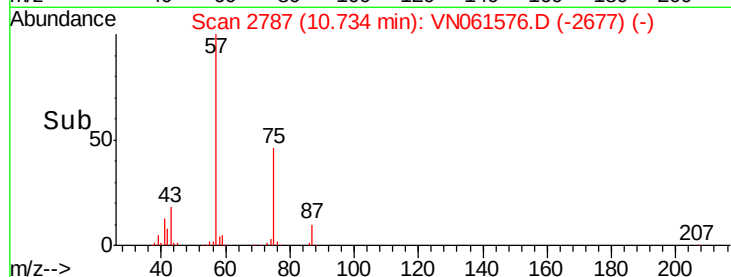
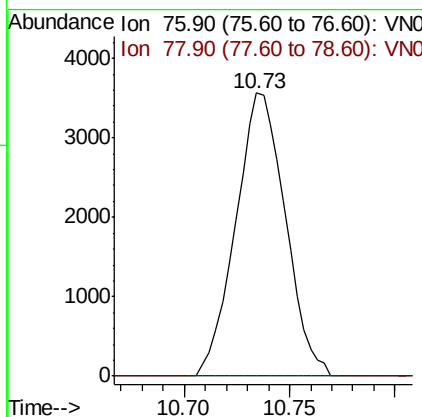
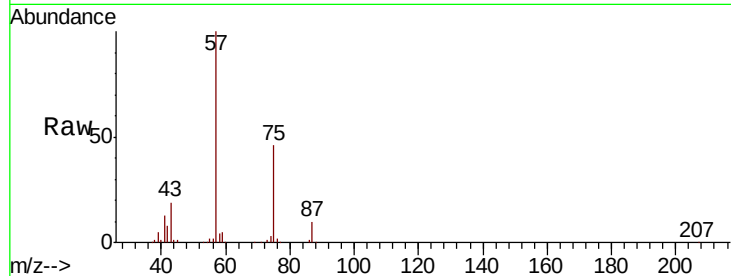




#57
 1,3-Dichloropropane
 Concen: 1.062 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.05 min
 Lab File: VN061576.D
 Acq: 29 May 2020 18:43

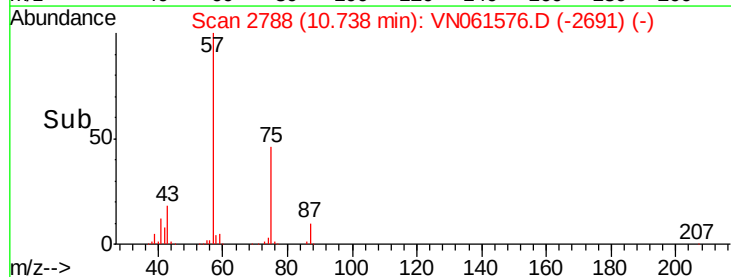
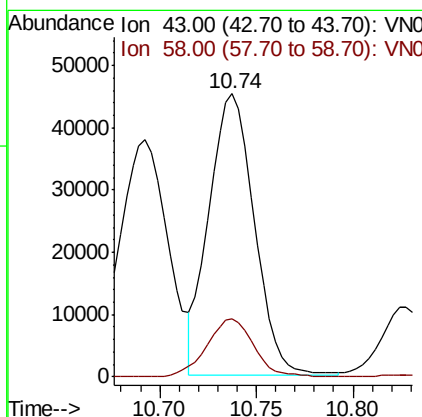
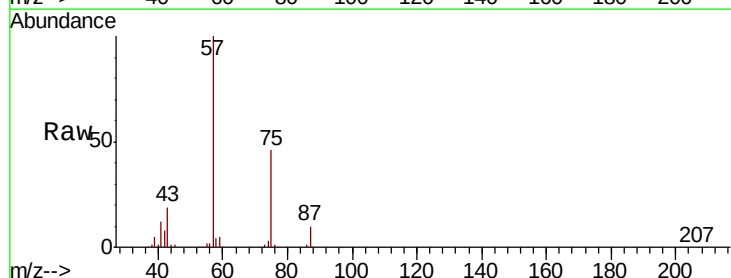
Instrument :
 MSVOA_N
 ClientSampled :

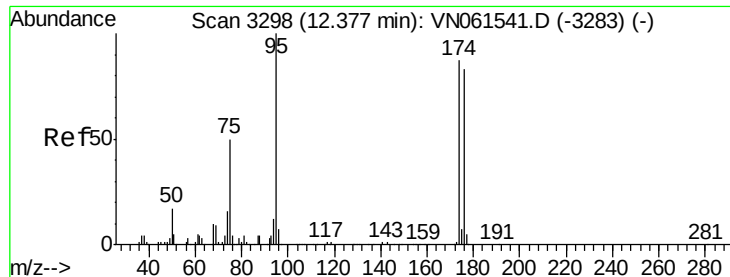
Tot Ion: 76 Resp: 5816
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 29.387 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.01 min
 Lab File: VN061576.D
 Acq: 29 May 2020 18:43

Tgt Ion: 43 Resp: 73543
 Ion Ratio Lower Upper
 43 100
 58 21.3 30.7 92.1#





#62

4-Bromofluorobenzene

Concen: 54.666 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061576.D

Acq: 29 May 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

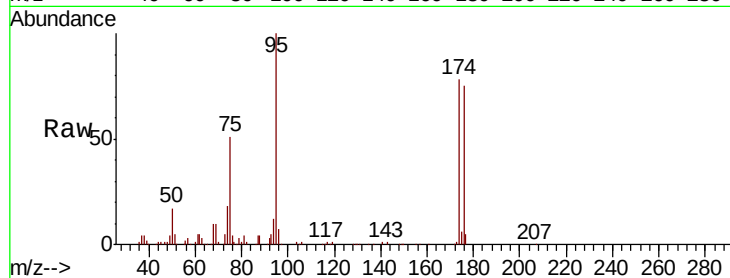
Tot Ion: 95 Resp: 226004

Ion Ratio Lower Upper

95 100

174 76.4 0.0 172.8

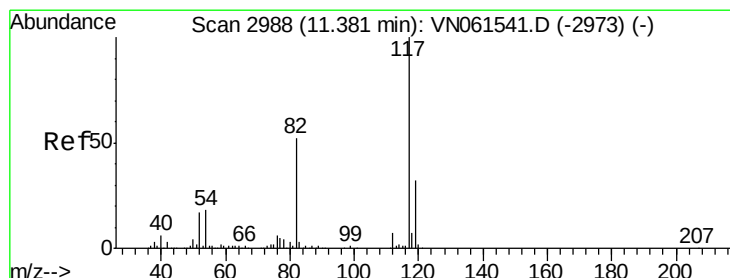
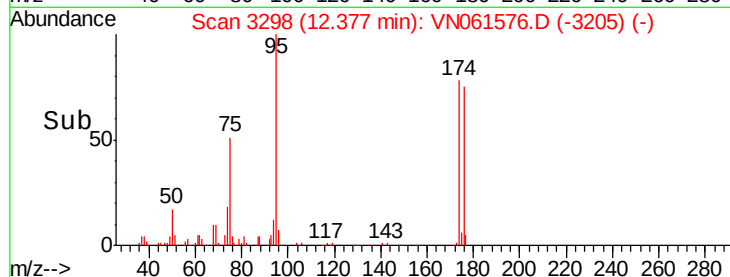
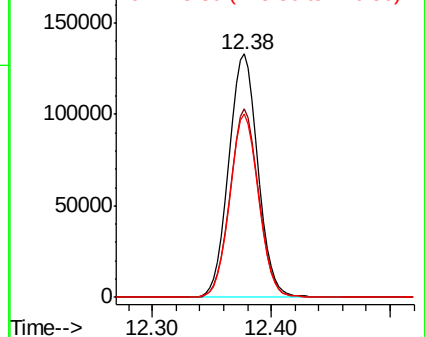
176 74.1 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): VN061541.D (-3283) (-)

Ion 173.80 (173.50 to 174.50): VN061541.D (-3283) (-)

Ion 175.80 (175.50 to 176.50): VN061541.D (-3283) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061576.D

Acq: 29 May 2020 18:43

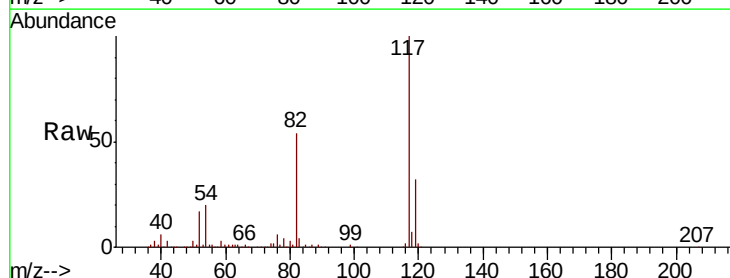
Tgt Ion: 117 Resp: 487523

Ion Ratio Lower Upper

117 100

82 53.6 41.5 62.3

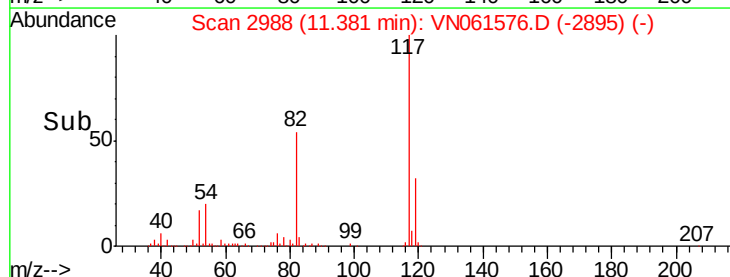
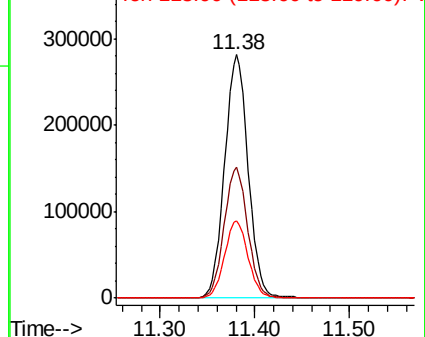
119 31.6 25.6 38.4

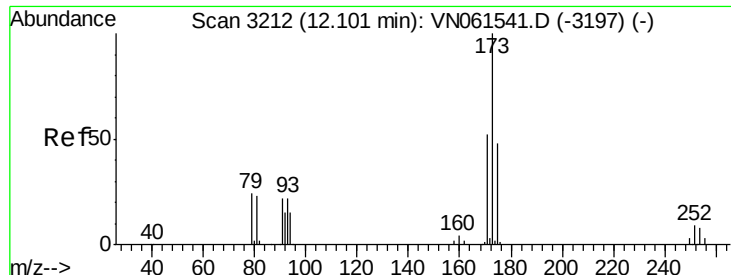


Abundance Ion 116.90 (116.60 to 117.60): VN061541.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN061541.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN061541.D (-2973) (-)





#71

Bromoform

Concen: 0.612 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061576.D

Acq: 29 May 2020 18:43

Instrument :

MSVOA_N

ClientSampled :

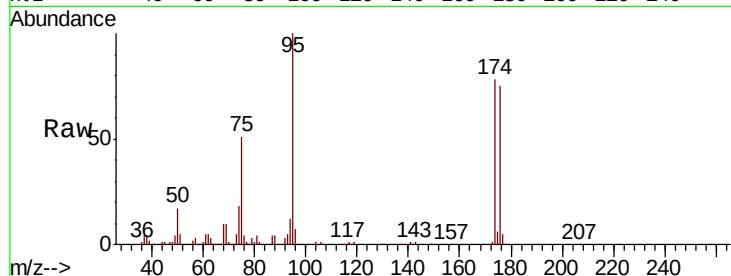
Tot Ion:173 Resp: 1780

Ion Ratio Lower Upper

173 100

175 609.4 24.4 73.2#

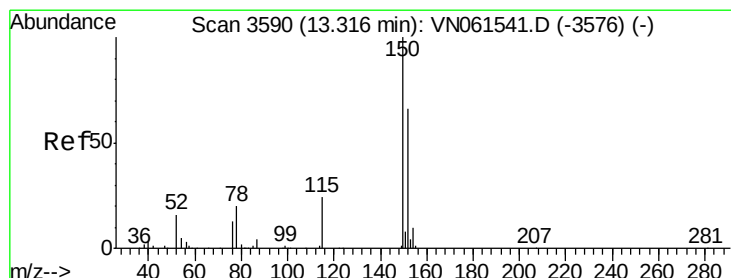
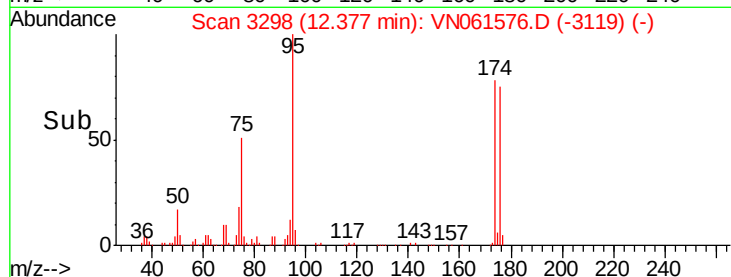
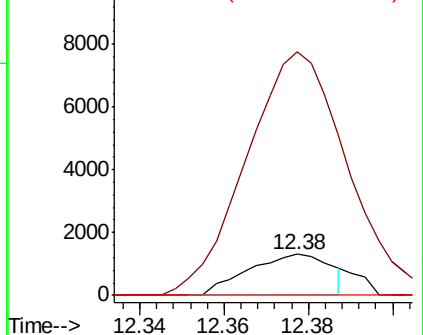
254 0.0 0.0 0.0



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# 3591

Delta R.T. 0.00 min

Lab File: VN061576.D

Acq: 29 May 2020 18:43

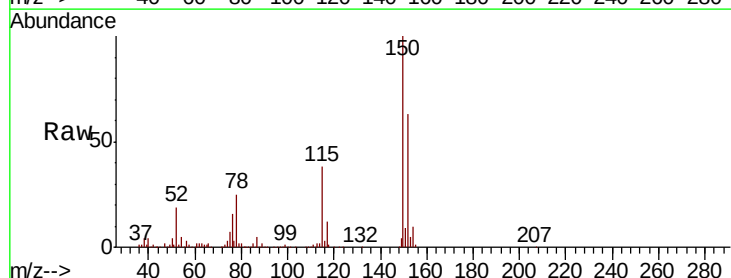
Tgt Ion:152 Resp: 217120

Ion Ratio Lower Upper

152 100

115 60.4 28.0 84.0

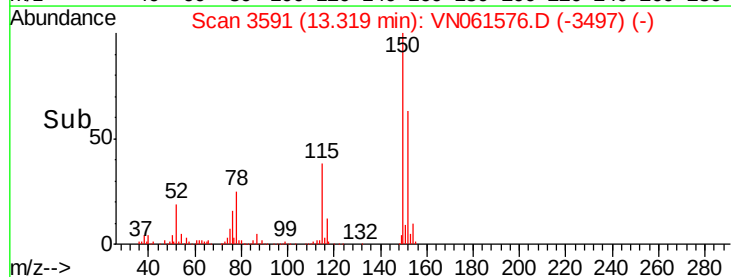
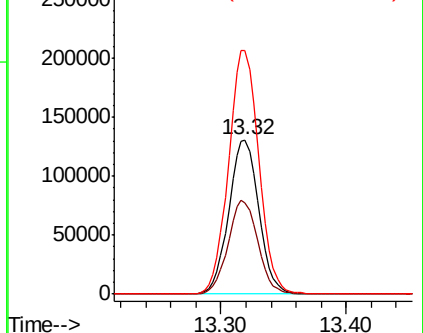
150 159.0 0.0 344.0

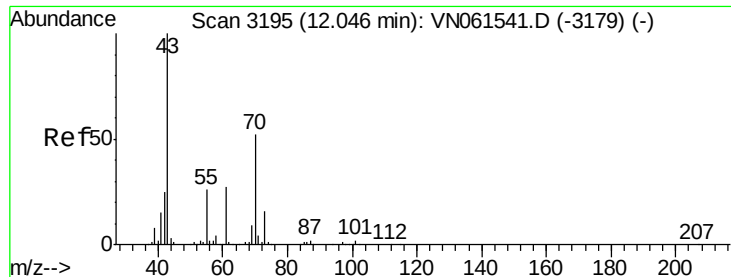


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.511 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061576.D

Acq: 29 May 2020 18:43

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 2548

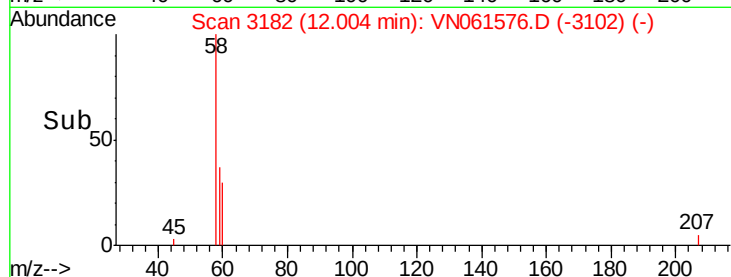
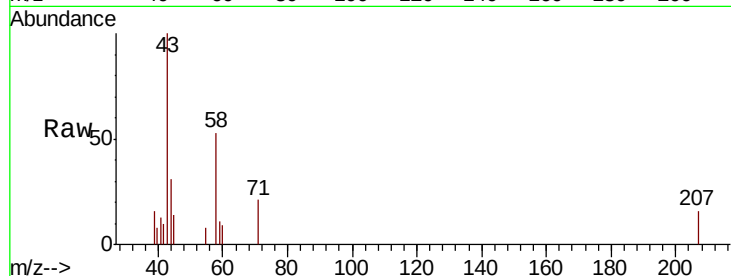
Ion Ratio Lower Upper

43 100

70 0.0 40.5 60.7#

55 5.7 20.6 31.0#

61 0.0 21.8 32.6#

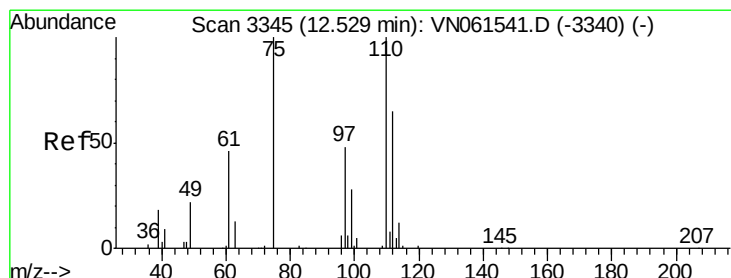
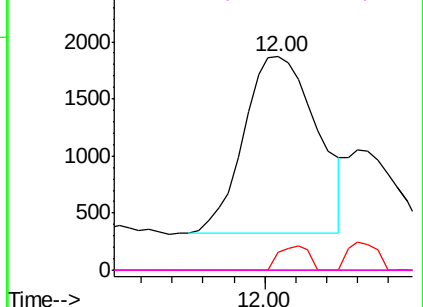


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 28.522 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061576.D

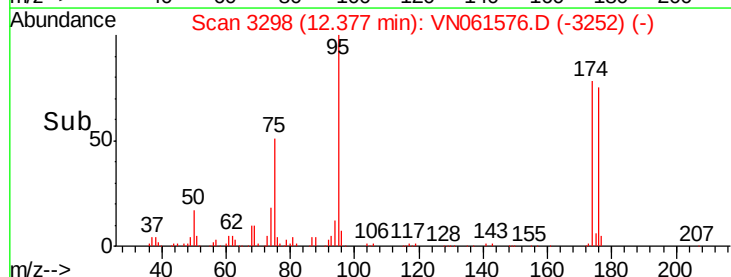
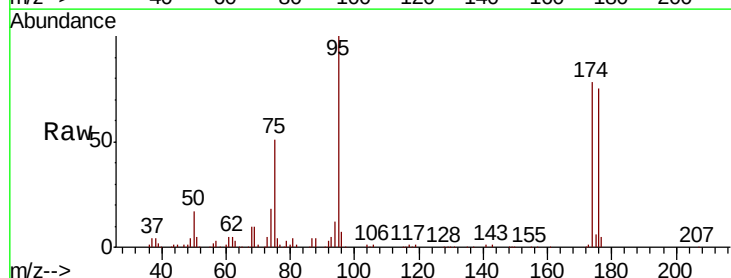
Acq: 29 May 2020 18:43

Tgt Ion: 75 Resp: 112606

Ion Ratio Lower Upper

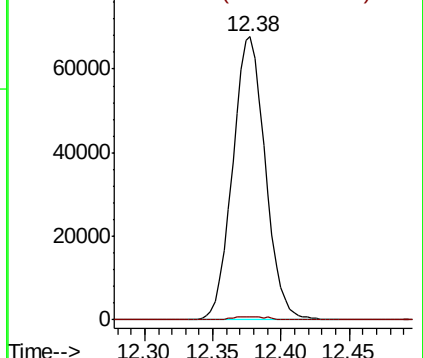
75 100

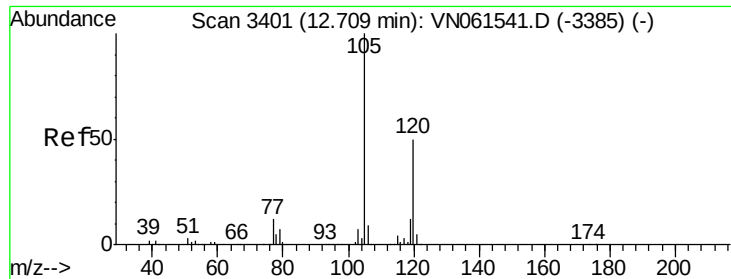
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

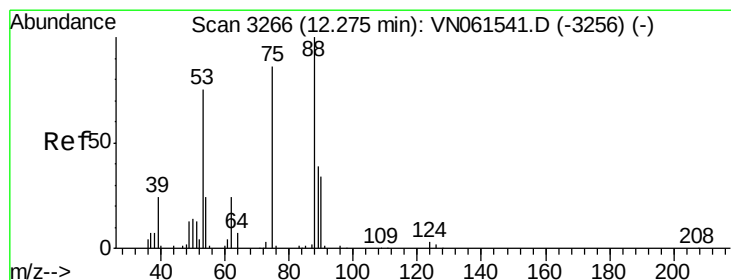
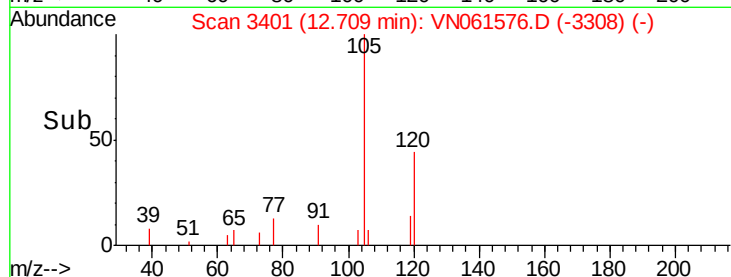
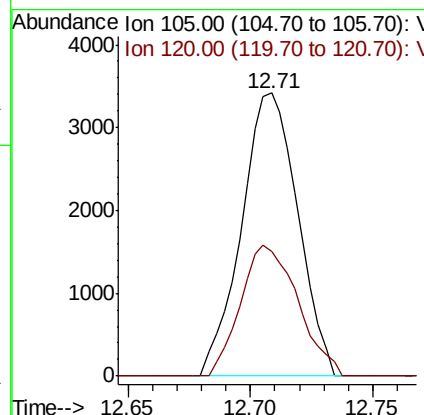
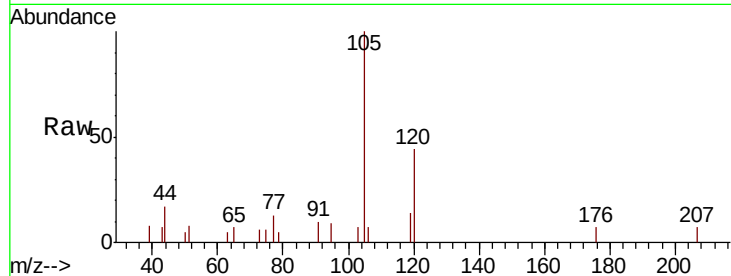




#80
 1,3,5-Trimethylbenzene
 Concen: 0.412 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. -0.00 min
 Lab File: VN061576.D
 Acq: 29 May 2020 18:43

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:105 Resp: 5454
 Ion Ratio Lower Upper
 105 100
 120 47.3 25.1 75.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.938 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN061576.D
 Acq: 29 May 2020 18:43

Tgt Ion: 75 Resp: 112606
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.8 101.8#
 89 0.0 37.1 55.7#

