

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051420\
 Data File : VN061407.D
 Acq On : 14 May 2020 21:11
 Operator : JC/MD
 Sample : L2666-02 20X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 15 05:56:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N051420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 14 16:04:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	17335	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	101138	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	89562	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.99	65	47730	30.75	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.50%
60) 4-Bromofluorobenzene	12.37	95	43738	28.60	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.33%
63) Toluene-d8	10.06	98	127823	30.82	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.73%

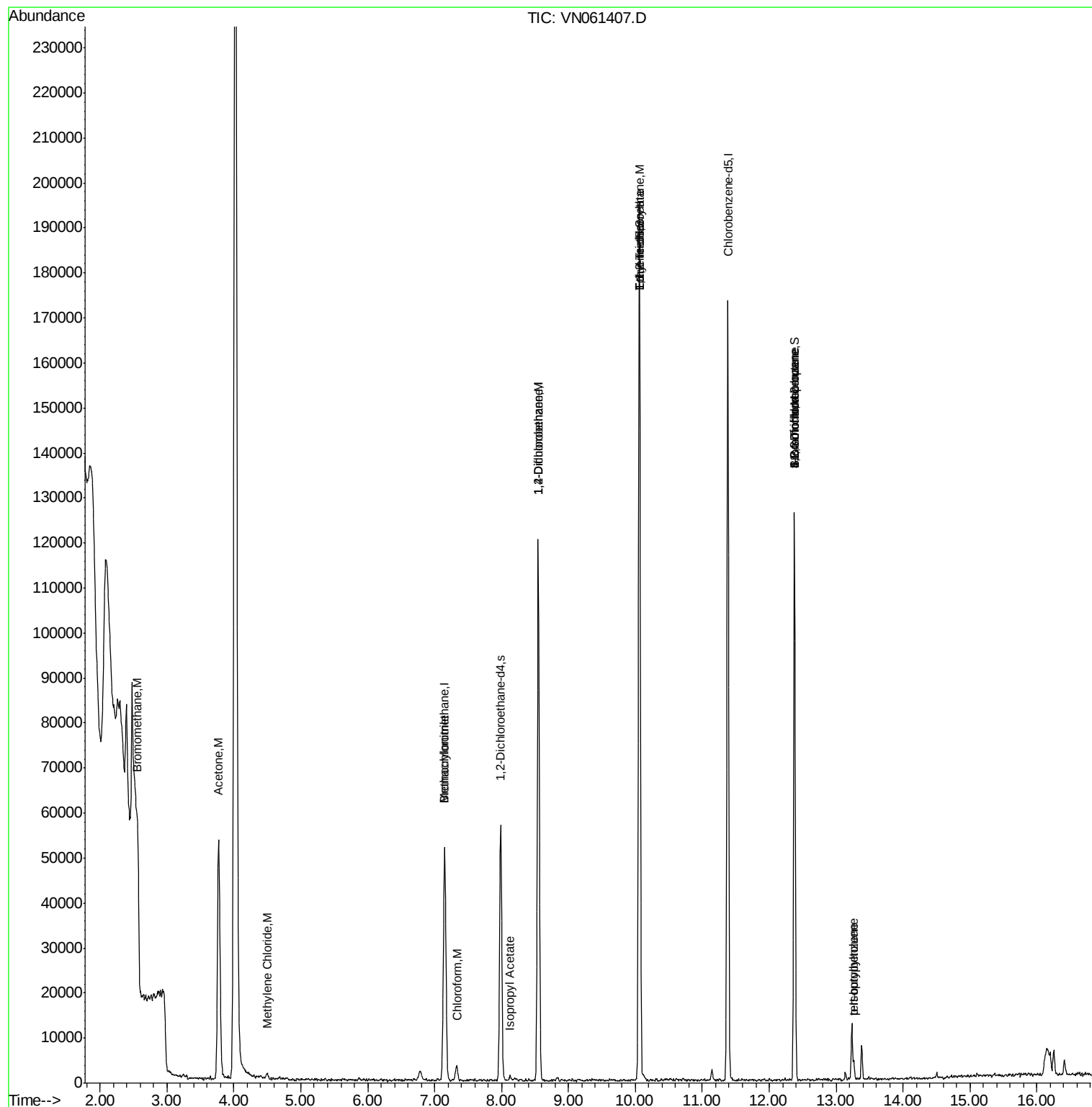
Target Compounds					Ovalue	
5) Bromomethane	2.56	94	281	0.286	ug/l #	4
15) Acetone	3.77	58	25991	203.902	ug/l	93
18) Methylene Chloride	4.50	84	730	0.650	ug/l #	57
25) Chloroform	7.33	83	3562	1.613	ug/l	88
35) Methacrylonitrile	7.14	41	159	0.211	ug/l #	33
36) 1,2-Dichloroethane	8.55	62	4069	2.111	ug/l #	77
44) Isopropyl Acetate	8.13	43	1911	0.614	ug/l #	50
50) 1,1,2-Trichloroethane	10.07	97	4484	3.804	ug/l #	1
51) Ethyl methacrylate	10.07	69	524	0.258	ug/l	66
56) Bromoform	12.38	173	215	0.265	ug/l #	1
72) 1,2,3-Trichloropropane	12.37	75	24599	16.405	ug/l	1
77) t-1,4-Dichloro-2-butene	12.37	75	24599	39.415	ug/l #	10
79) tert-butylbenzene	13.26	119	2855	0.720	ug/l	56
82) p-Isopropyltoluene	13.26	119	2855	0.580	ug/l	93

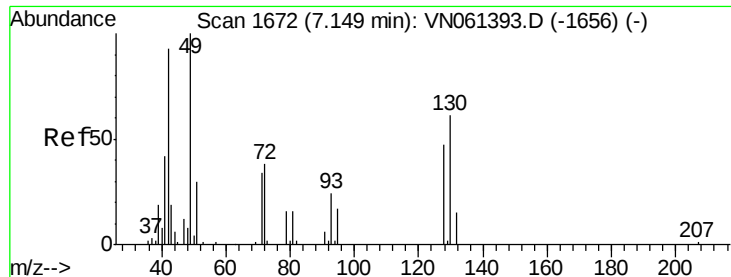
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N051420W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 14 16:04:10 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1672

Delta R.T. -0.00 min

Lab File: VN061407.D

Acq: 14 May 2020 21:11

Instrument :
MSVOA_N
ClientSampled :

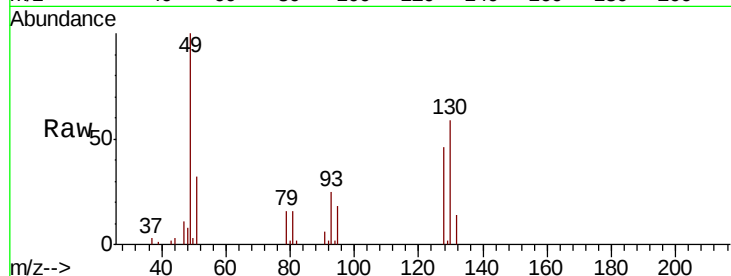
Tot Ion:128 Resp: 17335

Ion Ratio Lower Upper

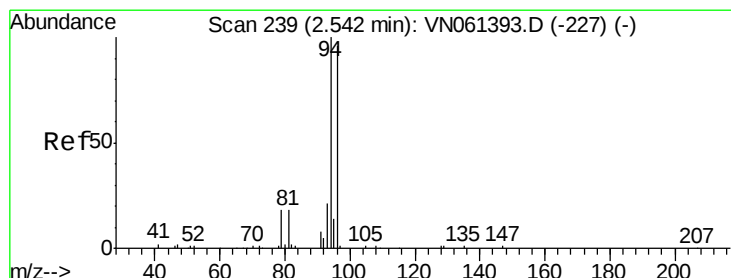
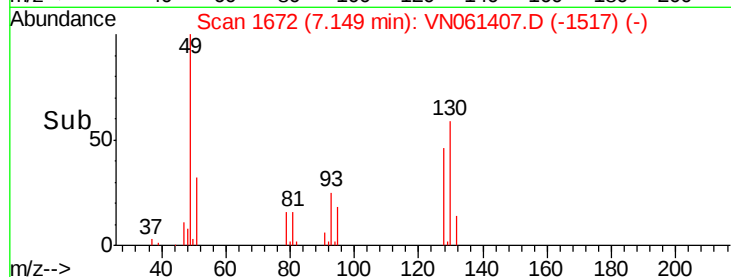
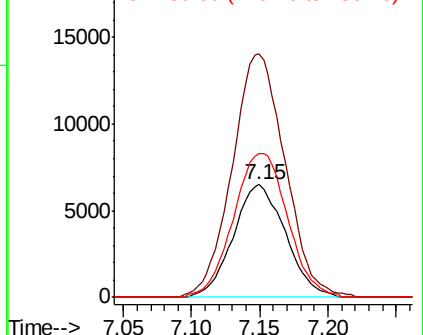
128 100

49 218.3 0.0 453.5

130 132.2 0.0 314.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.286 ug/l

RT: 2.56 min Scan# 245

Delta R.T. 0.02 min

Lab File: VN061407.D

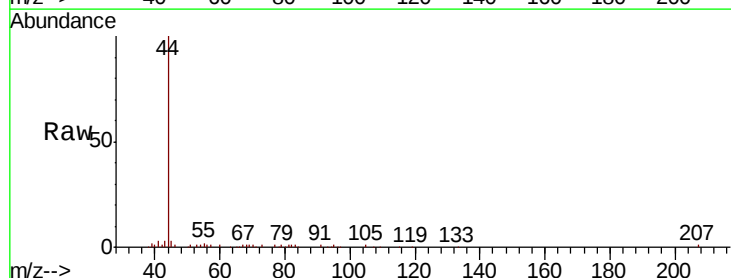
Acq: 14 May 2020 21:11

Tgt Ion: 94 Resp: 281

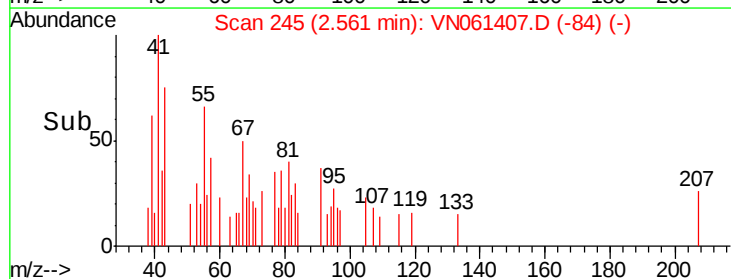
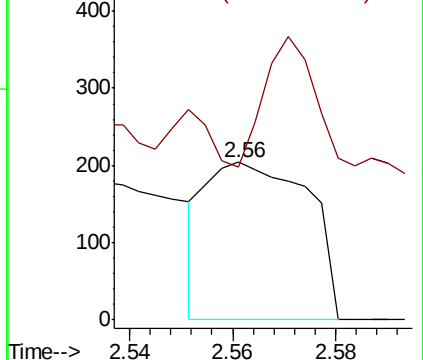
Ion Ratio Lower Upper

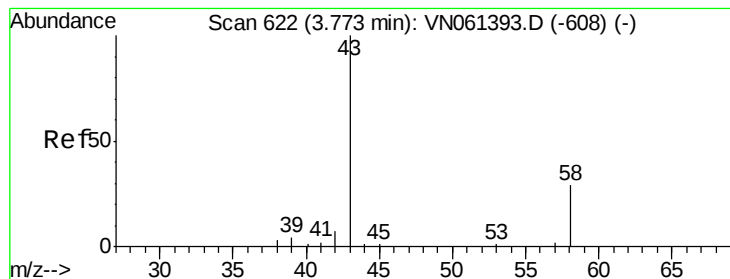
94 100

96 0.0 73.7 110.5#



Abundance Ion 94.00 (93.70 to 94.70): VN
Ion 96.00 (95.70 to 96.70): VN





#15

Acetone

Concen: 203.902 ug/l

RT: 3.77 min Scan# 622

Delta R.T. -0.00 min

Lab File: VN061407.D

Acq: 14 May 2020 21:11

Instrument :

MSVOA_N

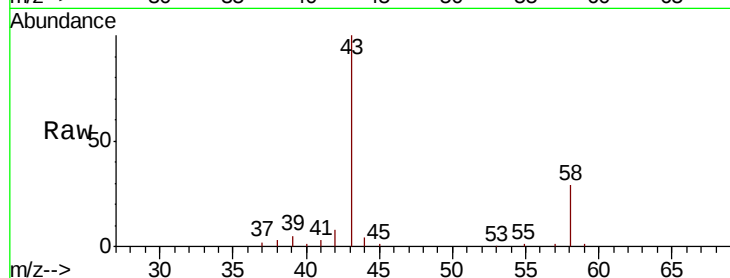
ClientSampleId :

Tot Ion: 58 Resp: 25991

Ion Ratio Lower Upper

58 100

43 336.4 281.7 422.5



Abundance Ion 58.00 (57.70 to 58.70): VN061393.D (-608) (-)

Ion 43.00 (42.70 to 43.70): VN061393.D (-608) (-)

40000

30000

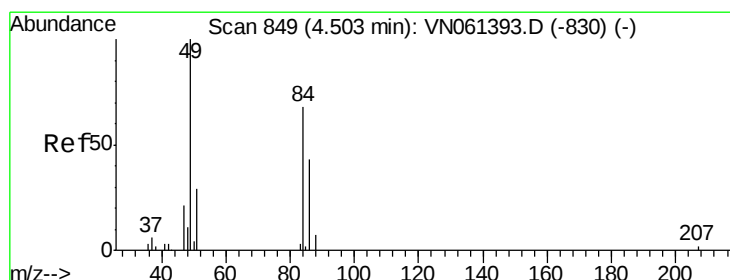
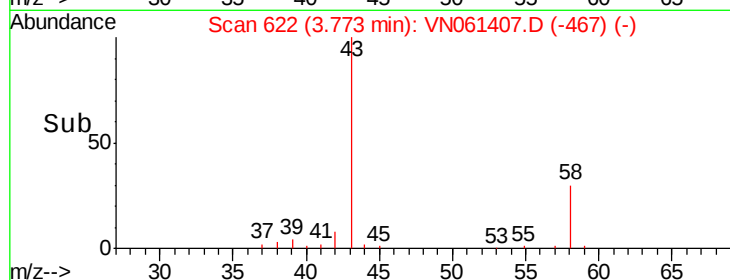
20000

10000

0

3.70 3.75 3.80 3.85

Time-->



#18

Methylene Chloride

Concen: 0.650 ug/l

RT: 4.50 min Scan# 848

Delta R.T. -0.00 min

Lab File: VN061407.D

Acq: 14 May 2020 21:11

Tgt Ion: 84 Resp: 730

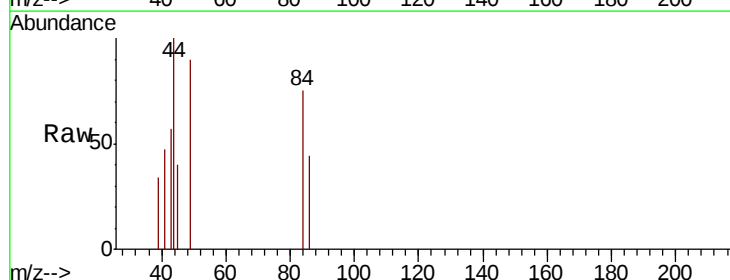
Ion Ratio Lower Upper

84 100

49 70.6 106.6 160.0#

51 0.0 32.4 48.6#

86 58.2 50.6 76.0



Abundance Ion 84.00 (83.70 to 84.70): VN061393.D (-830) (-)

Ion 49.00 (48.70 to 49.70): VN061393.D (-830) (-)

Ion 51.00 (50.70 to 51.70): VN061393.D (-830) (-)

Ion 86.00 (85.70 to 86.70): VN061393.D (-830) (-)

600

500

400

300

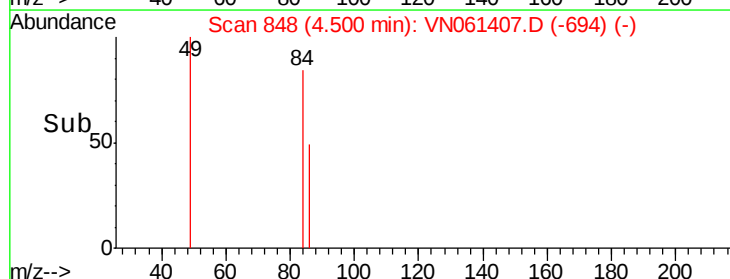
200

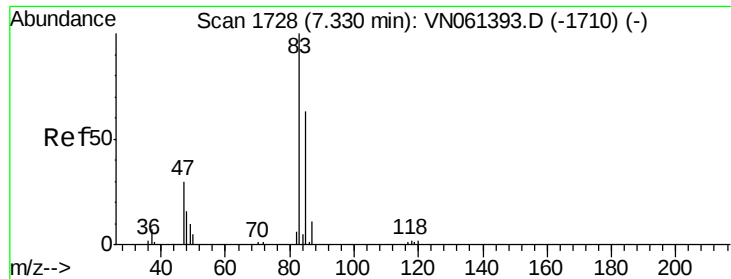
100

0

4.46 4.48 4.50 4.52 4.54

Time-->

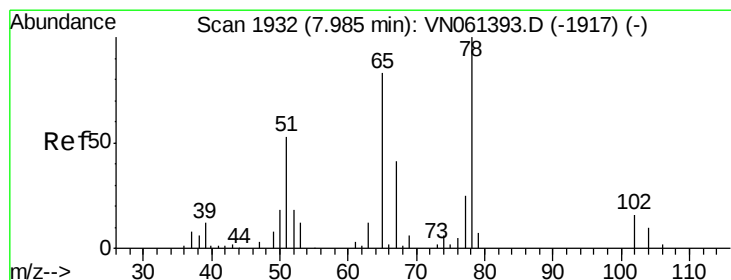
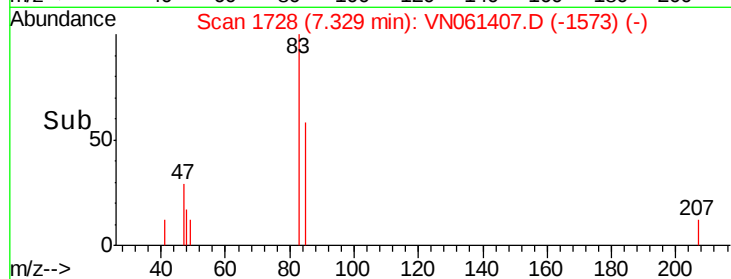
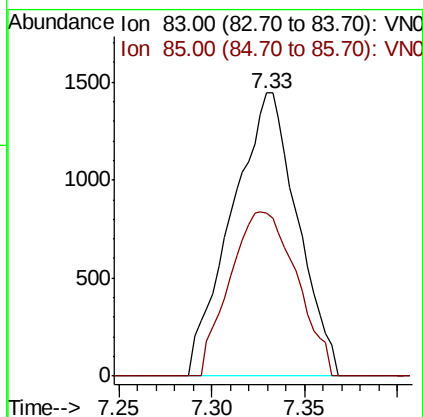
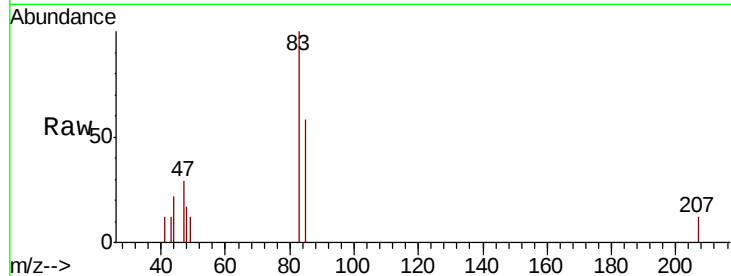




#25
Chloroform
Concen: 1.613 ug/l
RT: 7.33 min Scan# 1728
Delta R.T. -0.00 min
Lab File: VN061407.D
Acq: 14 May 2020 21:11

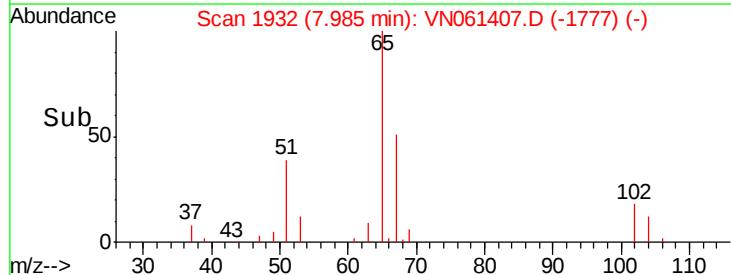
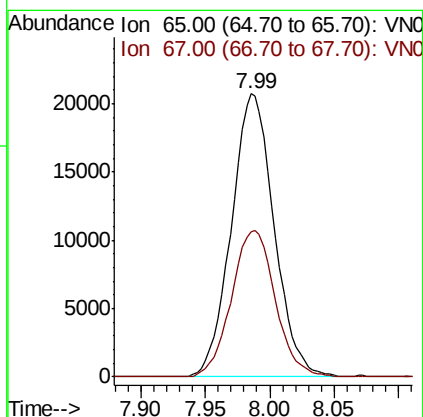
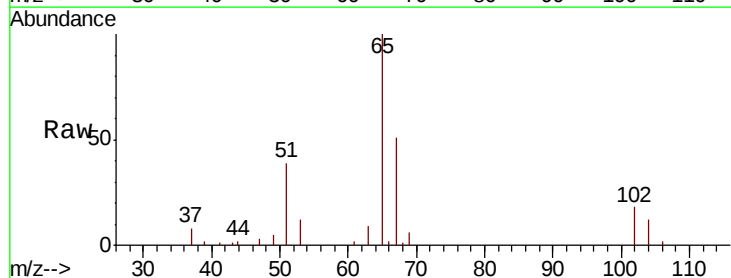
Instrument :
MSVOA_N
ClientSampleId :

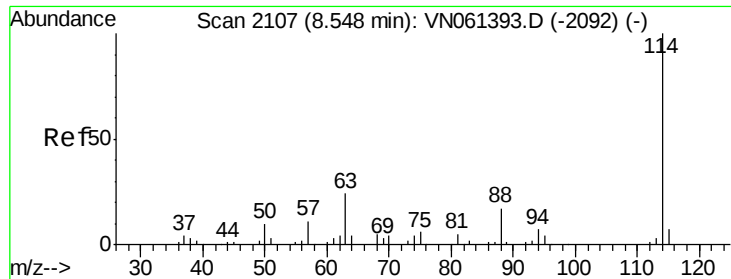
Tot Ion: 83 Resp: 3562
Ion Ratio Lower Upper
83 100
85 57.6 53.8 80.8



#27
1,2-Dichloroethane-d4
Concen: 30.746 ug/l
RT: 7.99 min Scan# 1932
Delta R.T. -0.00 min
Lab File: VN061407.D
Acq: 14 May 2020 21:11

Tgt Ion: 65 Resp: 47730
Ion Ratio Lower Upper
65 100
67 52.9 41.5 62.3

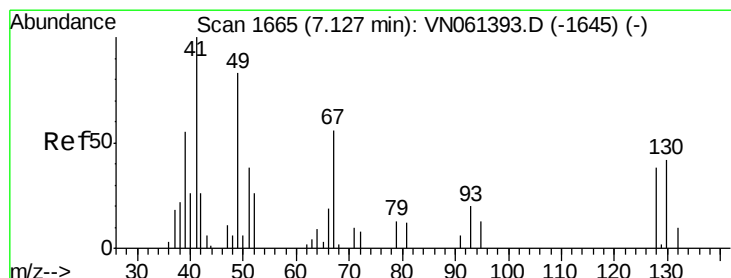
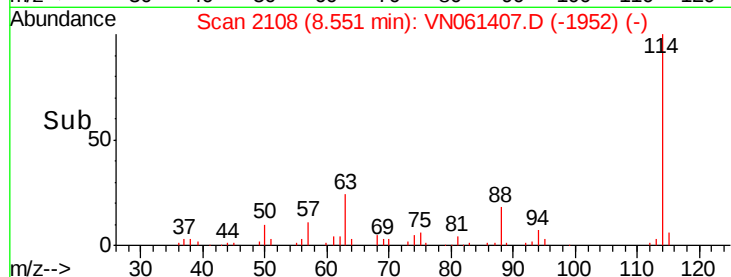
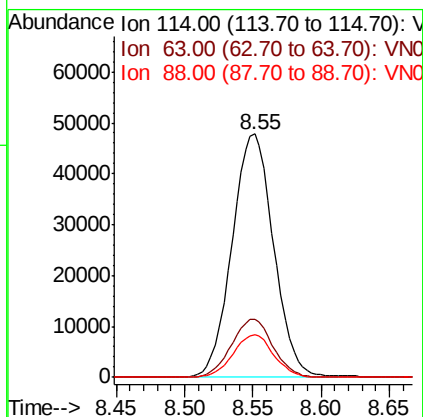
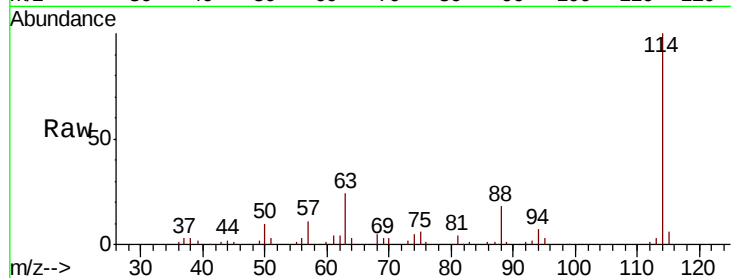




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061407.D
 Acq: 14 May 2020 21:11

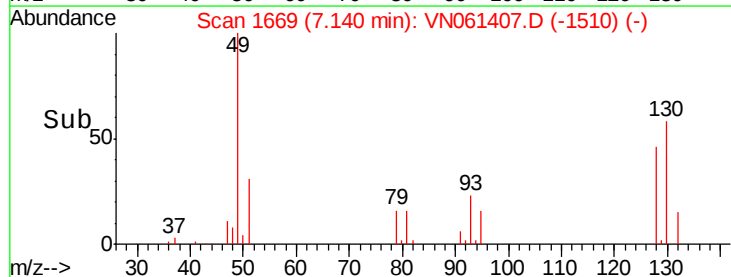
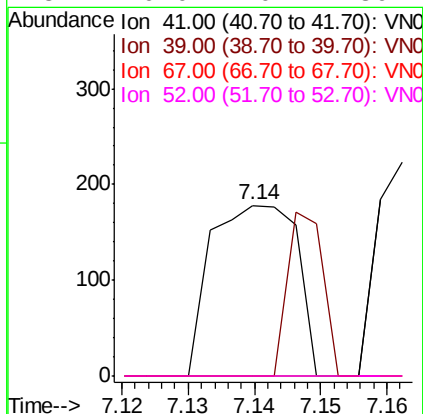
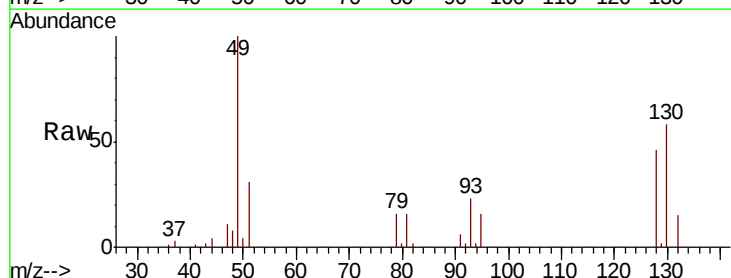
Instrument :
 MSVOA_N
 ClientSampleId :

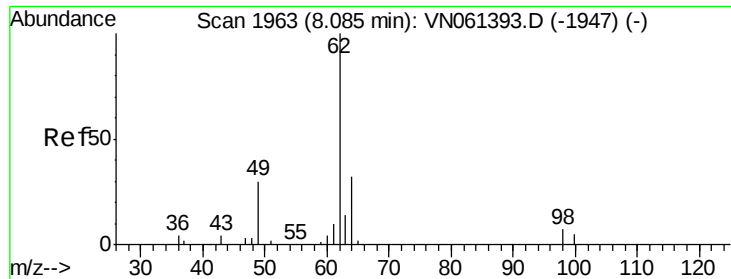
Tot Ion:114 Resp: 101138
 Ion Ratio Lower Upper
 114 100
 63 23.8 18.1 27.1
 88 17.1 13.0 19.4



#35
 Methacrylonitrile
 Concen: 0.211 ug/l
 RT: 7.14 min Scan# 1669
 Delta R.T. 0.01 min
 Lab File: VN061407.D
 Acq: 14 May 2020 21:11

Tgt Ion: 41 Resp: 159
 Ion Ratio Lower Upper
 41 100
 39 0.0 25.8 77.4#
 67 0.0 23.0 69.0#
 52 0.0 10.1 30.1#

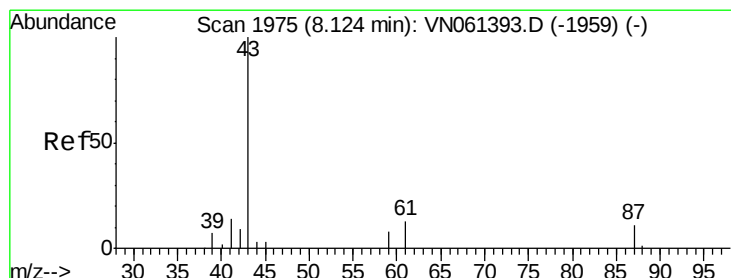
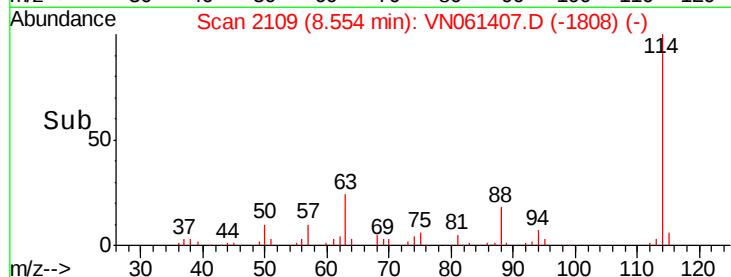
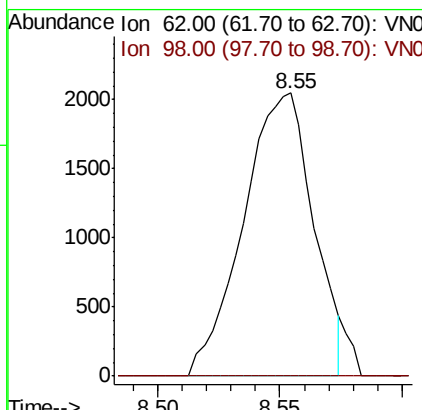
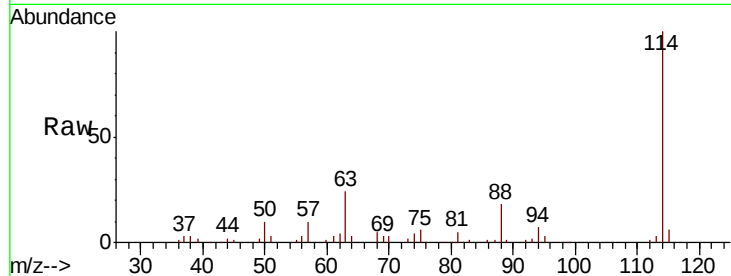




#36
 1,2-Dichloroethane
 Concen: 2.111 ug/l
 RT: 8.55 min Scan# 2109
 Delta R.T. 0.47 min
 Lab File: VN061407.D
 Acq: 14 May 2020 21:11

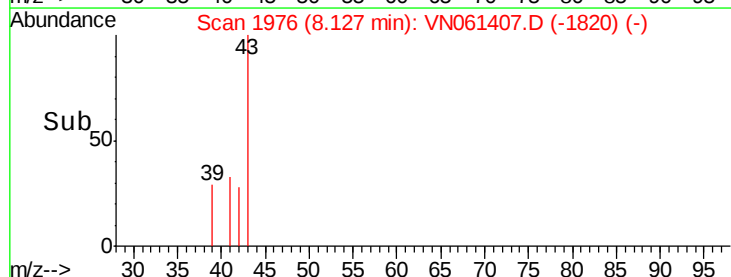
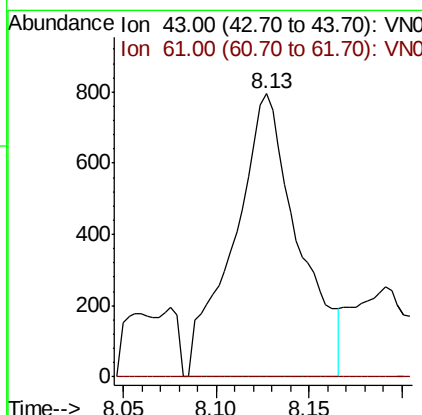
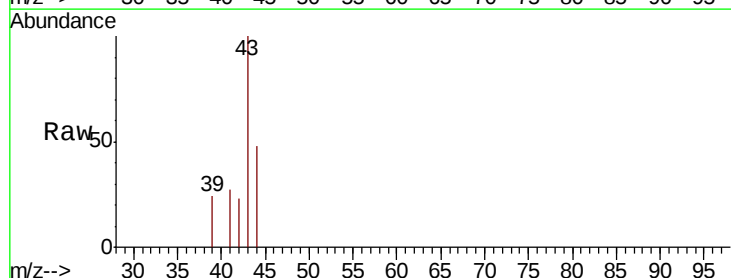
Instrument :
 MSVOA_N
 ClientSampled :

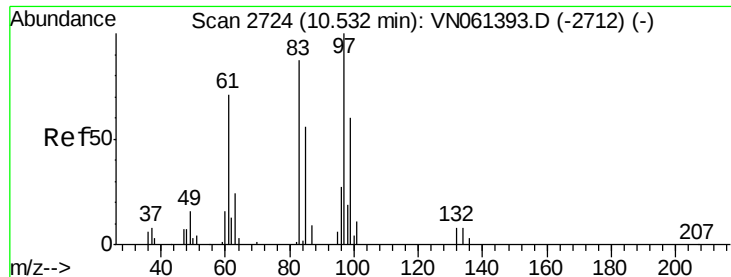
Tot Ion: 62 Resp: 4069
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.4 9.6#



#44
 Isopropyl Acetate
 Concen: 0.614 ug/l
 RT: 8.13 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VN061407.D
 Acq: 14 May 2020 21:11

Tgt Ion: 43 Resp: 1911
 Ion Ratio Lower Upper
 43 100
 61 0.0 19.9 29.9#

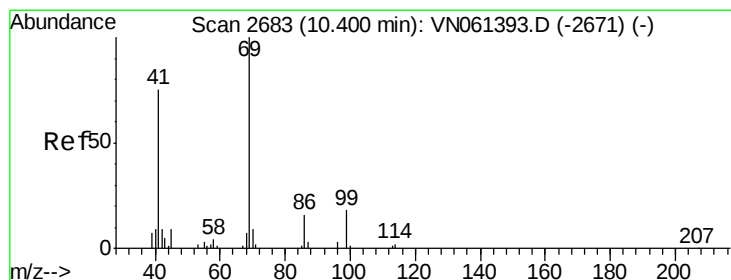
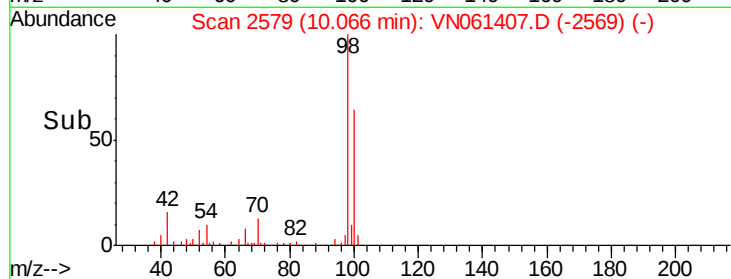
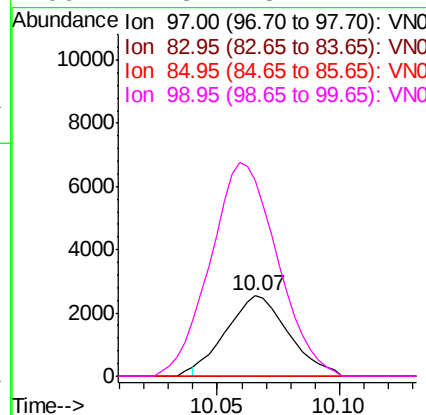
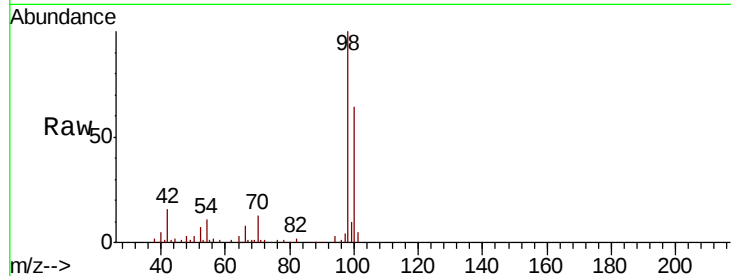




#50
 1,1,2-Trichloroethane
 Concen: 3.804 ug/l
 RT: 10.07 min Scan# 2579
 Delta R.T. -0.47 min
 Lab File: VN061407.D
 Acq: 14 May 2020 21:11

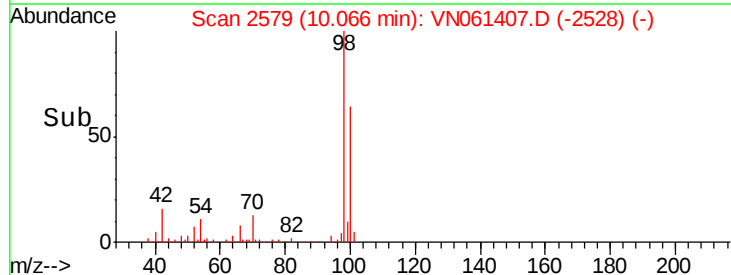
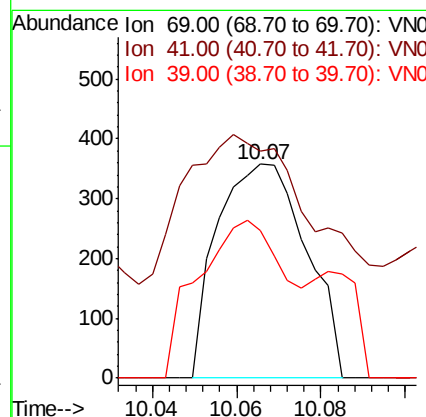
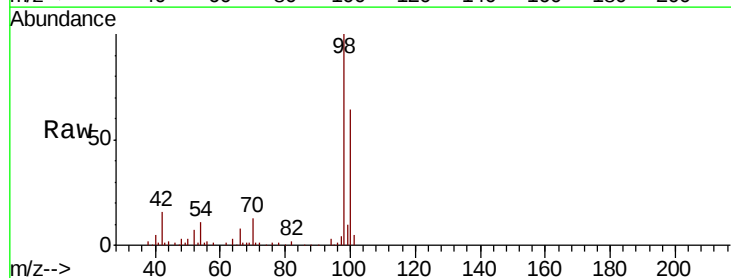
Instrument :
 MSVOA_N
 ClientSampled :

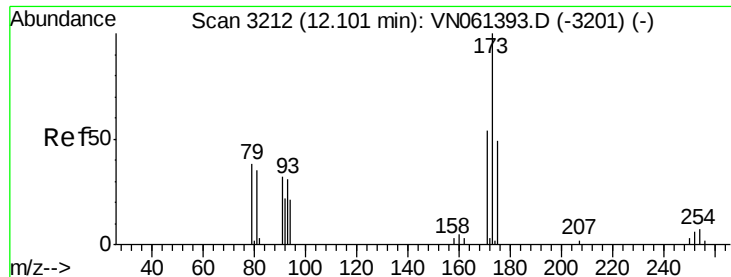
Tot Ion	97	Resp	4484
Ion Ratio	Lower	Upper	
97	100		
83	0.0	70.7	106.1#
85	0.0	45.1	67.7#
99	244.3	48.2	72.4#



#51
 Ethyl methacrylate
 Concen: 0.258 ug/l
 RT: 10.07 min Scan# 2579
 Delta R.T. -0.33 min
 Lab File: VN061407.D
 Acq: 14 May 2020 21:11

Tgt Ion	69	Resp	524
Ion Ratio	Lower	Upper	
69	100		
41	38.3	34.7	104.1
39	24.0	20.3	60.8

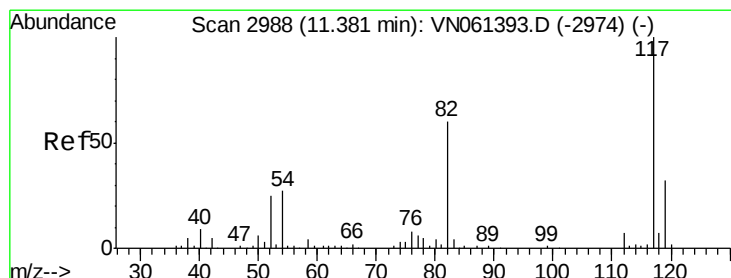
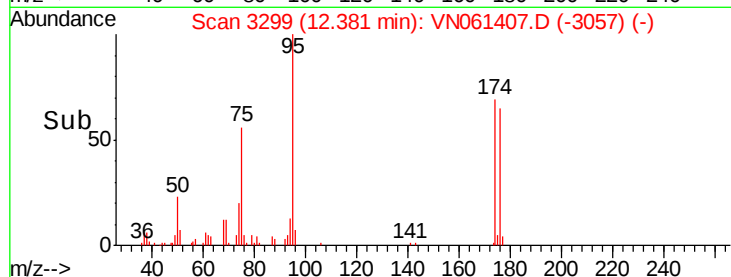
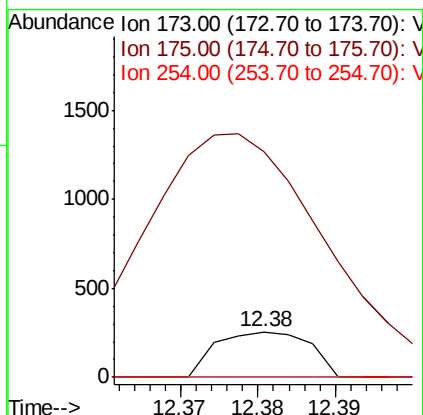
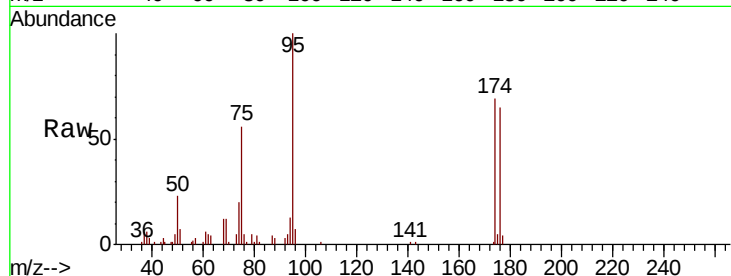




#56
Bromoform
Concen: 0.265 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.28 min
Lab File: VN061407.D
Acq: 14 May 2020 21:11

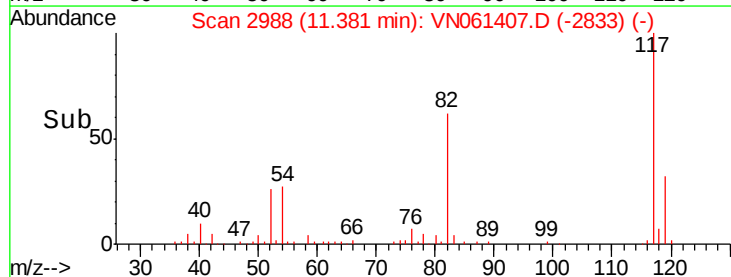
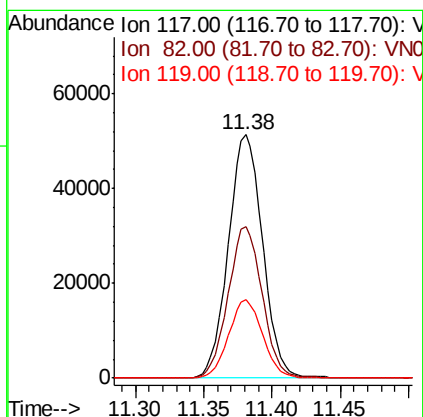
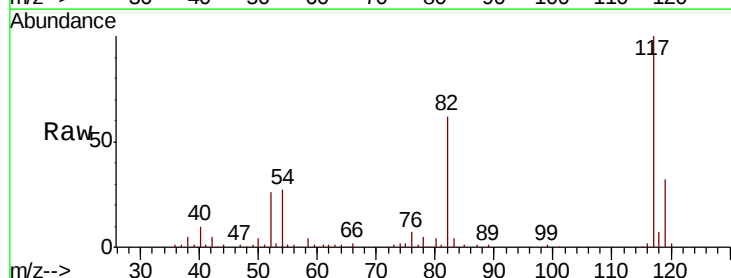
Instrument :
MSVOA_N
ClientSampled :

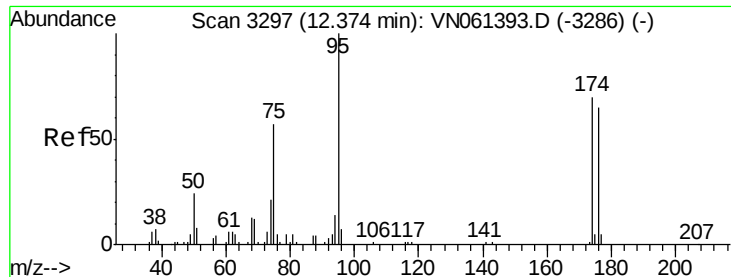
Tot Ion:173 Resp: 215
Ion Ratio Lower Upper
173 100
175 1040.5 38.7 58.1#
254 0.0 7.4 11.2#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061407.D
Acq: 14 May 2020 21:11

Tgt Ion:117 Resp: 89562
Ion Ratio Lower Upper
117 100
82 62.0 46.9 70.3
119 31.7 25.8 38.6

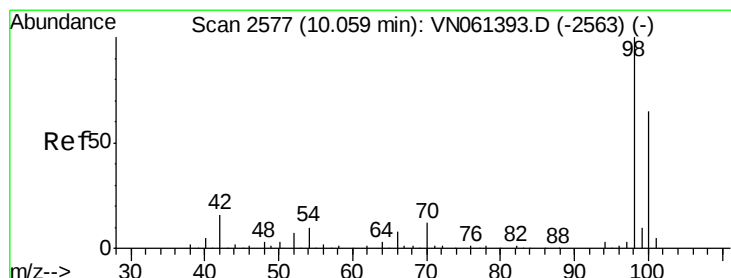
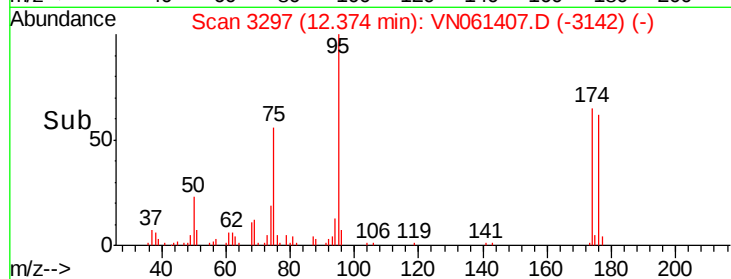
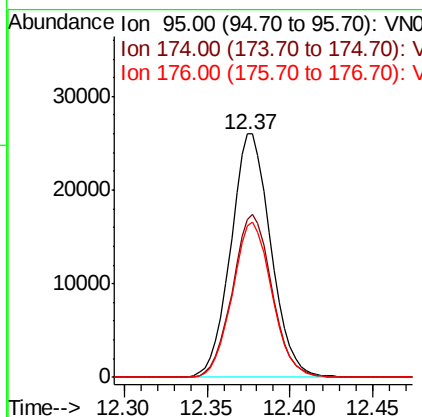
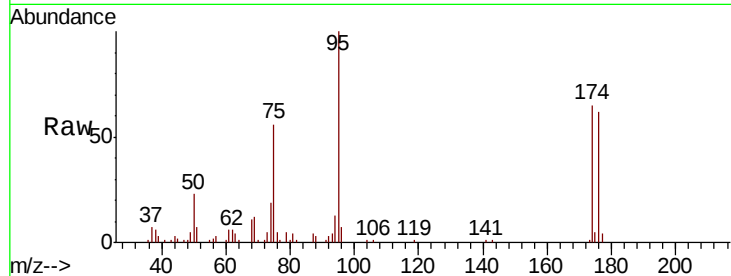




#60
 4-Bromofluorobenzene
 Concen: 28.605 ug/l
 RT: 12.37 min Scan# 3297
 Delta R.T. -0.00 min
 Lab File: VN061407.D
 Acq: 14 May 2020 21:11

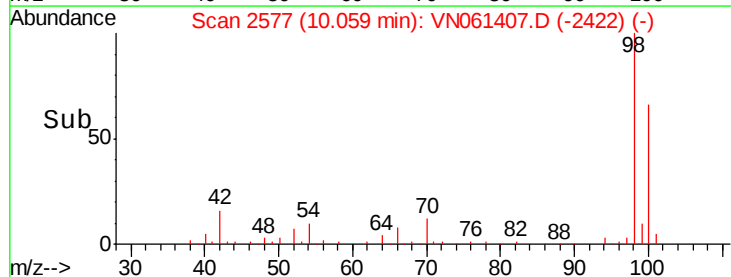
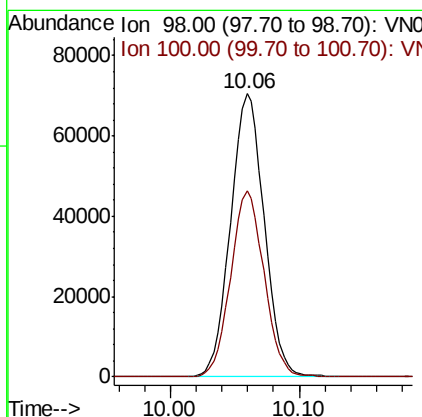
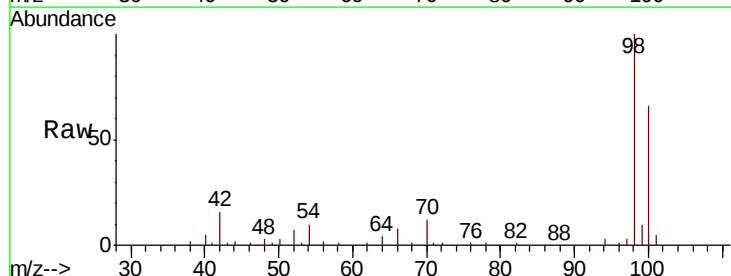
Instrument :
 MSVOA_N
 ClientSampled :

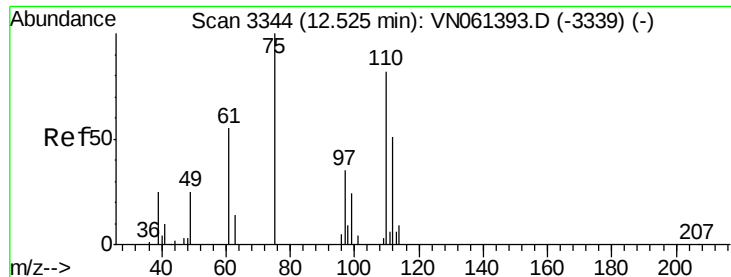
Tot Ion	95	Resp	43738
Ion Ratio	Lower	Upper	
95	100		
174	65.6	59.9	89.9
176	62.7	58.3	87.5



#63
 Toluene-d8
 Concen: 30.824 ug/l
 RT: 10.06 min Scan# 2577
 Delta R.T. -0.00 min
 Lab File: VN061407.D
 Acq: 14 May 2020 21:11

Tgt Ion	98	Resp	127823
Ion Ratio	Lower	Upper	
98	100		
100	65.2	50.6	75.8





#72

1,2,3-Trichloropropane

Concen: 16.405 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061407.D

Acq: 14 May 2020 21:11

Instrument :

MSVOA_N

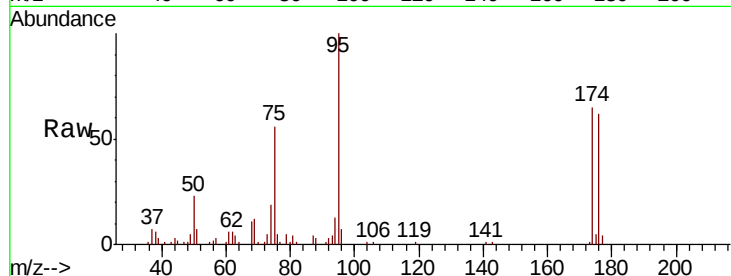
ClientSampled :

Tot Ion: 75 Resp: 24599

Ion Ratio Lower Upper

75 100

77 0.8 0.0 359.4



Abundance Ion 75.00 (74.70 to 75.70): VN061407.D (-3189) (-)

Ion 77.00 (76.70 to 77.70): VN061407.D (-3189) (-)

12.37

15000

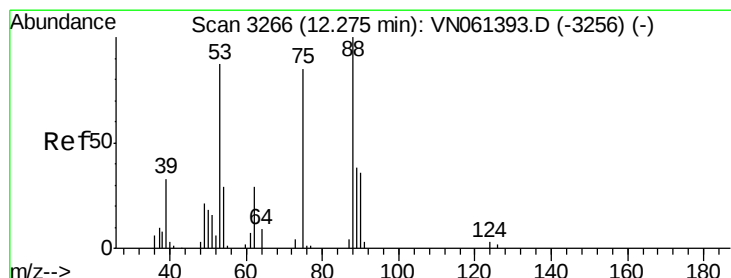
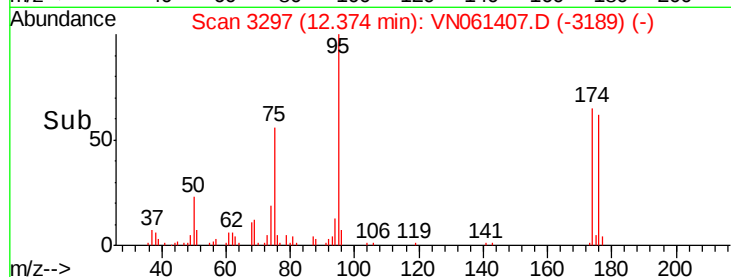
10000

5000

0

12.35 12.40

Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 39.415 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061407.D

Acq: 14 May 2020 21:11

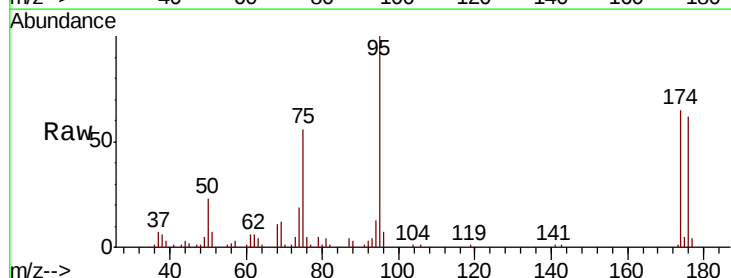
Tgt Ion: 75 Resp: 24599

Ion Ratio Lower Upper

75 100

53 0.0 50.0 150.0#

89 0.0 20.7 62.1#



Abundance Ion 75.00 (74.70 to 75.70): VN061407.D (-3111) (-)

Ion 53.00 (52.70 to 53.70): VN061407.D (-3111) (-)

Ion 89.00 (88.70 to 89.70): VN061407.D (-3111) (-)

12.37

20000

15000

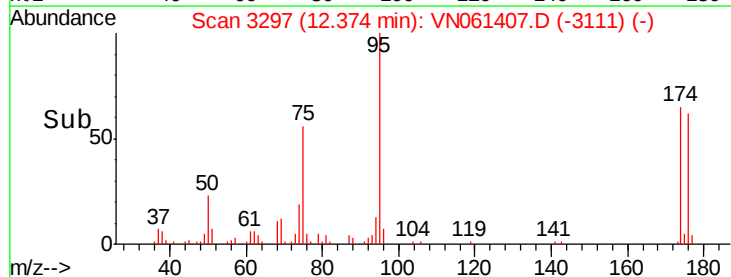
10000

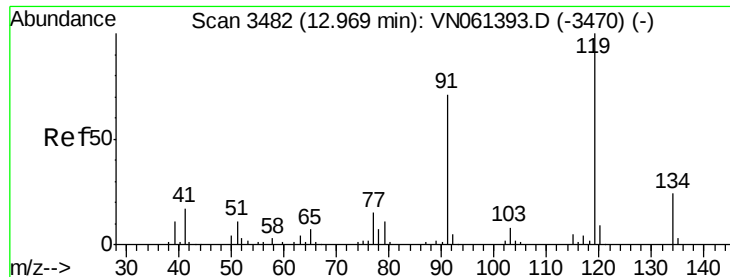
5000

0

12.35 12.40

Time-->

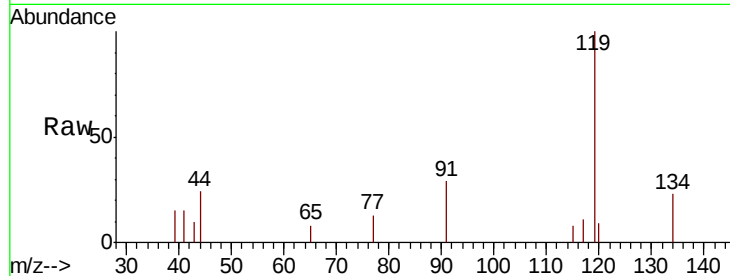




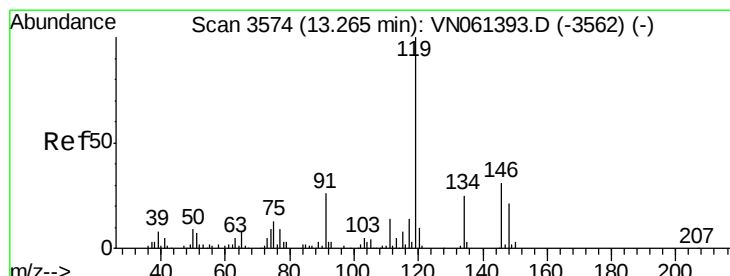
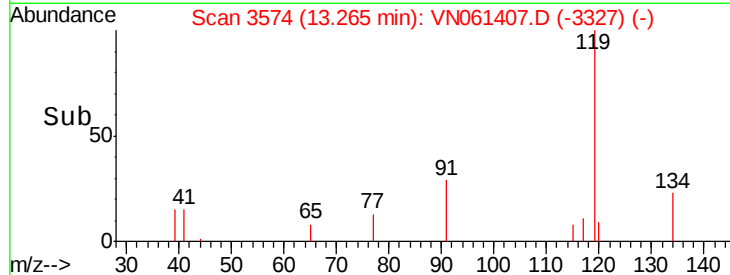
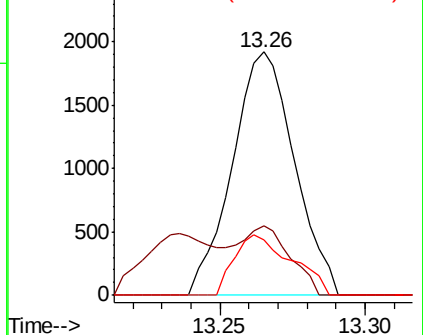
#79
tert-butylbenzene
Concen: 0.720 ug/l
RT: 13.26 min Scan# 3574
Delta R.T. 0.30 min
Lab File: VN061407.D
Acq: 14 May 2020 21:11

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:119 Resp: 2855
Ion Ratio Lower Upper
119 100
91 20.7 0.0 136.4
134 22.9 0.0 47.2

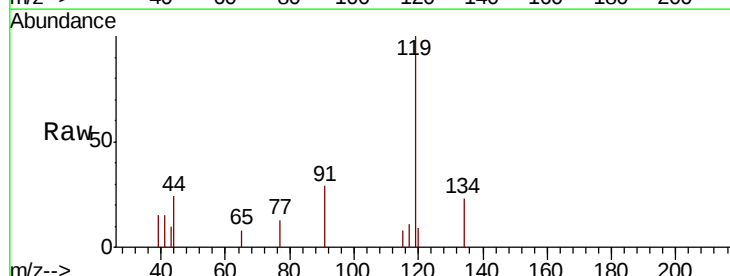


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V



#82
p-Isopropyltoluene
Concen: 0.580 ug/l
RT: 13.26 min Scan# 3574
Delta R.T. -0.00 min
Lab File: VN061407.D
Acq: 14 May 2020 21:11

Tgt Ion:119 Resp: 2855
Ion Ratio Lower Upper
119 100
134 22.9 0.0 50.8
91 20.7 0.0 49.4



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

