

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031320\
 Data File : VN060497.D
 Acq On : 13 Mar 2020 13:11
 Operator : JC/MD
 Sample : PB127465ZHE#10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 16 04:28:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	191211	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	315680	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	297162	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	138907	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	124296	50.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.34%	
35) Dibromofluoromethane	7.57	113	93030	63.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	126.98%	
50) Toluene-d8	10.08	98	387423	52.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.48%	
62) 4-Bromofluorobenzene	12.40	95	144844	51.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.04%	

Target Compounds

					Qvalue	
16) Acetone	3.79	43	5920	7.473	ug/l	91
17) Carbon Disulfide	4.03	76	224	Below Cal	#	75
18) Methyl Acetate	4.29	43	1874	0.709	ug/l #	59
20) Methylene Chloride	4.53	84	4282	1.968	ug/l	96
25) 2-Butanone	6.82	43	1176	0.919	ug/l #	49
31) Cyclohexane	7.64	56	3864	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	14833	4.930	ug/l #	49
37) Ethyl Acetate	6.82	43	1176	0.413	ug/l #	68
38) Carbon Tetrachloride	7.64	117	18703	6.385	ug/l #	16
43) Isopropyl Acetate	8.14	43	67591	13.553	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1116	0.487	ug/l #	44
48) Methyl methacrylate	9.16	41	3497	1.538	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	5460	1.931	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	28425	7.410	ug/l #	60
56) Ethyl methacrylate	10.53	69	692	0.218	ug/l #	1
57) 1,3-Dichloropropane	10.75	76	4631	1.284	ug/l #	42
59) 2-Hexanone	10.75	43	69985	33.709	ug/l #	51
74) N-amyl acetate	12.02	43	4573	1.016	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	73942	24.262	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8368	0.965	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	73942	66.975	ug/l #	8
87) 1,3-Dichlorobenzene	13.28	146	177	Below Cal	#	74
88) 1,4-Dichlorobenzene	13.36	146	345	Below Cal	#	63
93) 1,2,4-Trichlorobenzene	14.91	180	340	0.209	ug/l #	82
95) Naphthalene	15.13	128	1037	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.31	180	295	Below Cal	#	56

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060497.D

Acq: 13 Mar 2020 13:11

Instrument :

MSVOA_N

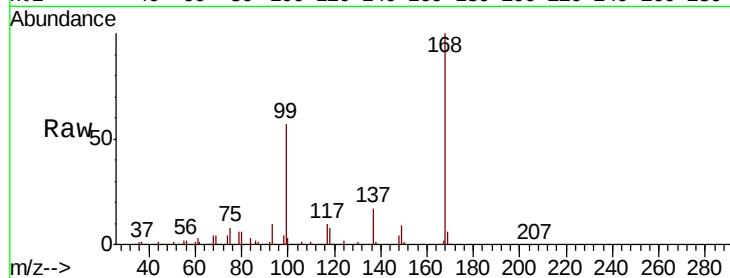
ClientSampled :

Tot Ion:168 Resp: 191211

Ion Ratio Lower Upper

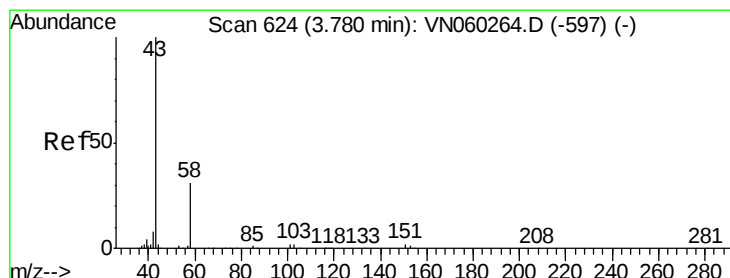
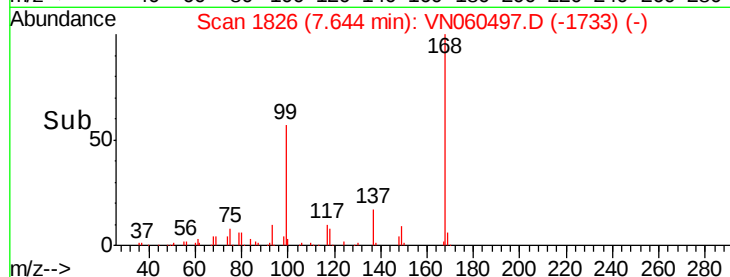
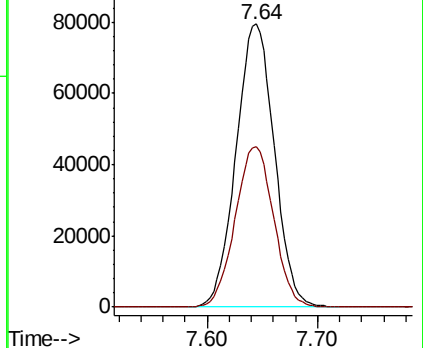
168 100

99 56.7 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 7.473 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060497.D

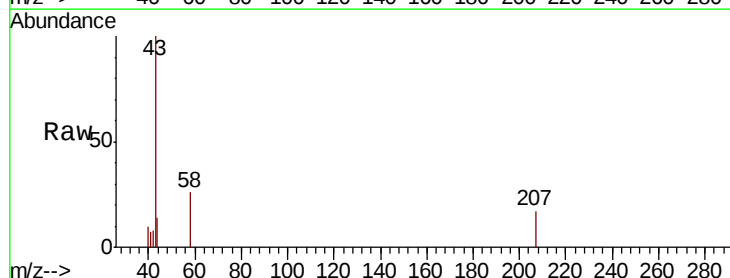
Acq: 13 Mar 2020 13:11

Tgt Ion: 43 Resp: 5920

Ion Ratio Lower Upper

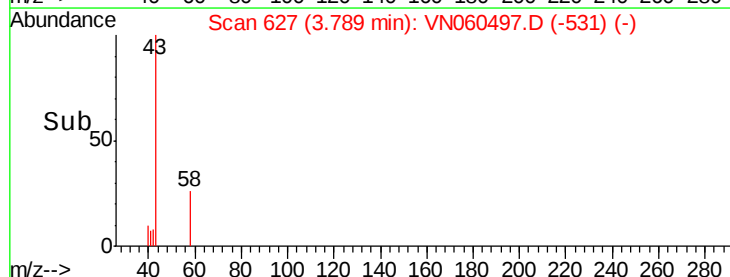
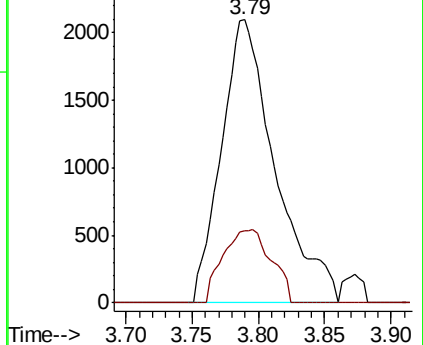
43 100

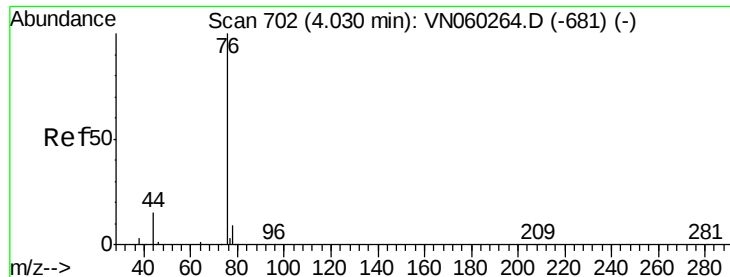
58 25.6 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN060497.D

Acq: 13 Mar 2020 13:11

Instrument :

MSVOA_N

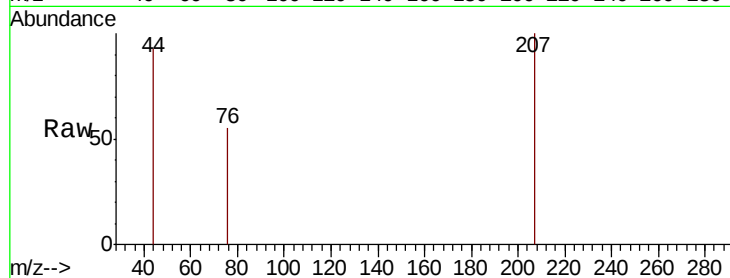
ClientSampleId :

Tot Ion: 76 Resp: 224

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

200

150

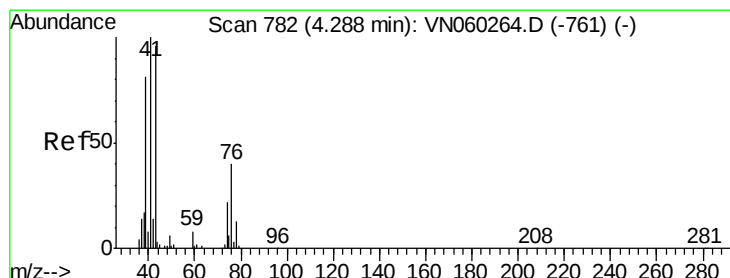
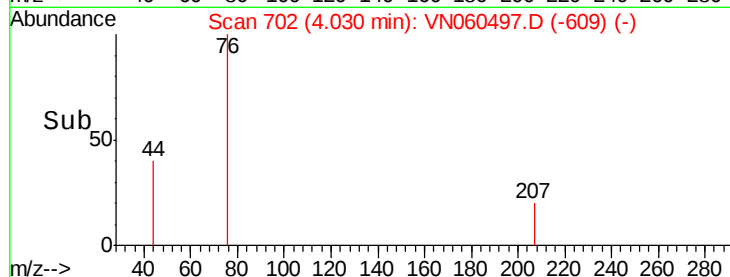
100

50

0

4.02 4.04 4.06

Time-->



#18

Methyl Acetate

Concen: 0.709 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN060497.D

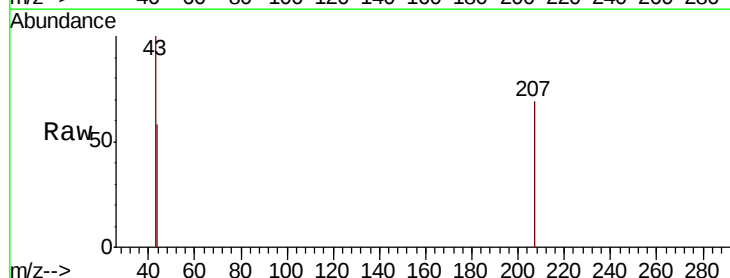
Acq: 13 Mar 2020 13:11

Tgt Ion: 43 Resp: 1874

Ion Ratio Lower Upper

43 100

74 3.2 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.29

600

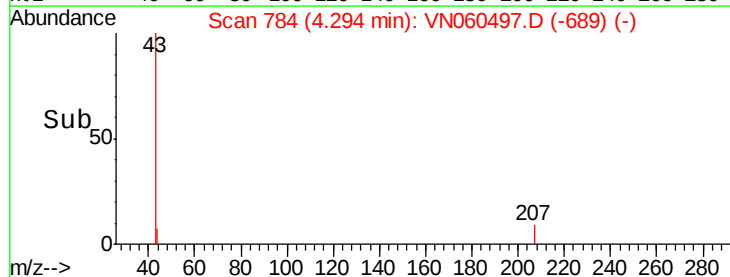
400

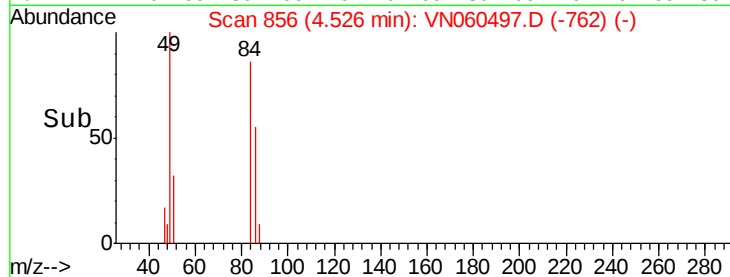
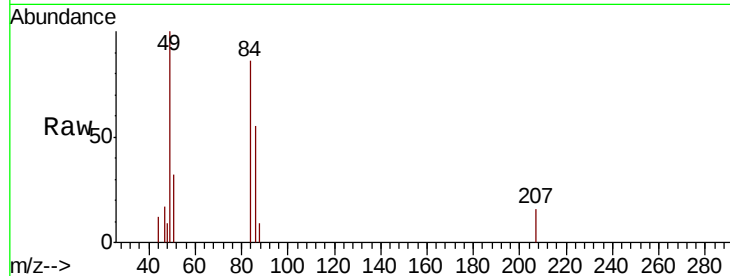
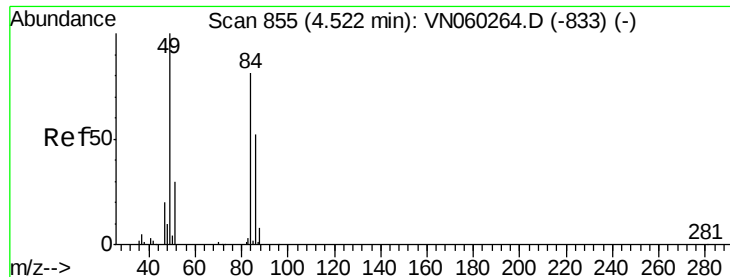
200

0

4.25 4.30 4.35

Time-->

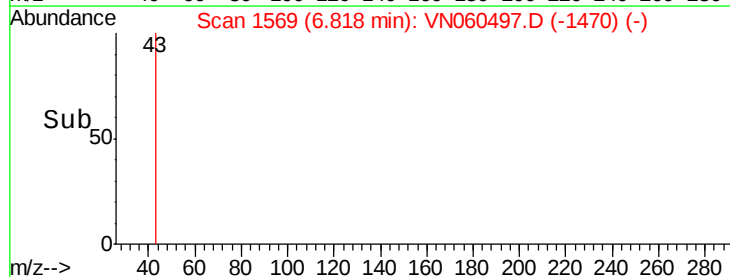
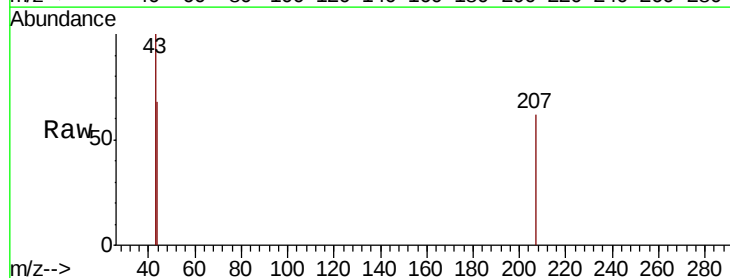
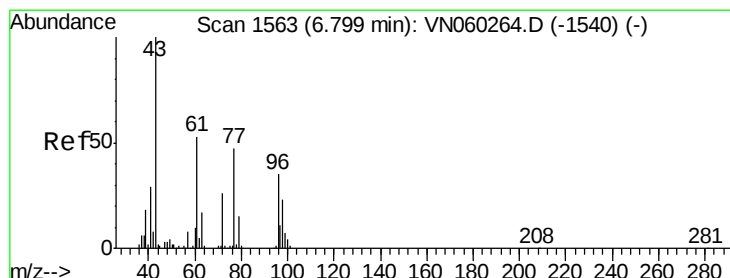
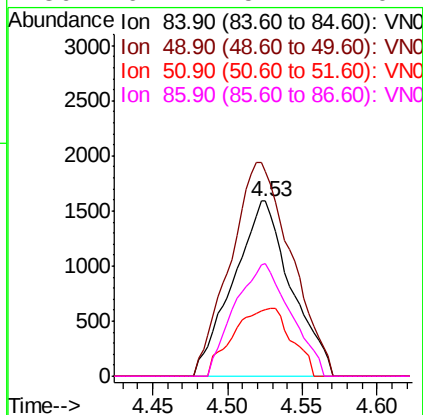




#20
Methvlene Chloride
Concen: 1.968 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060497.D
Acq: 13 Mar 2020 13:11

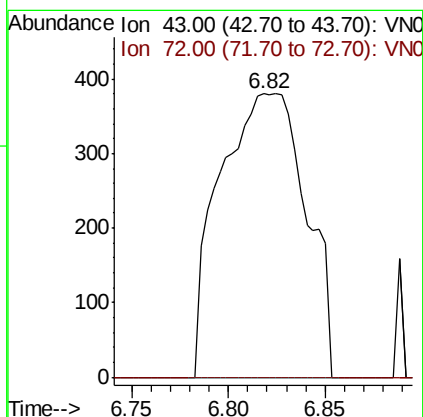
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	4282
Ion	Ratio	Lower	Upper
84	100		
49	116.9	99.3	148.9
51	38.0	30.1	45.1
86	64.2	51.1	76.7



#25
2-Butanone
Concen: 0.919 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.02 min
Lab File: VN060497.D
Acq: 13 Mar 2020 13:11

Tgt Ion:	43	Resp:	1176
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.9	31.3#





#33

1,2-Dichloroethane-d4

Concen: 50.666 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060497.D

Acq: 13 Mar 2020 13:11

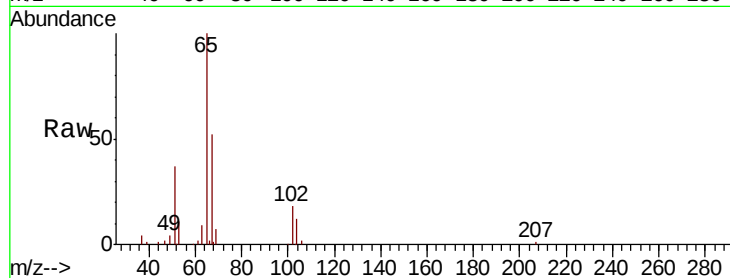
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 65 Resp: 124296

Ion Ratio Lower Upper

65 100

67 52.3 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN060497.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN060497.D (-1845) (-)

8.00

60000

50000

40000

30000

20000

10000

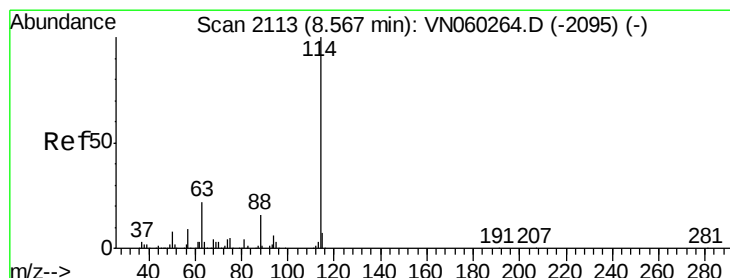
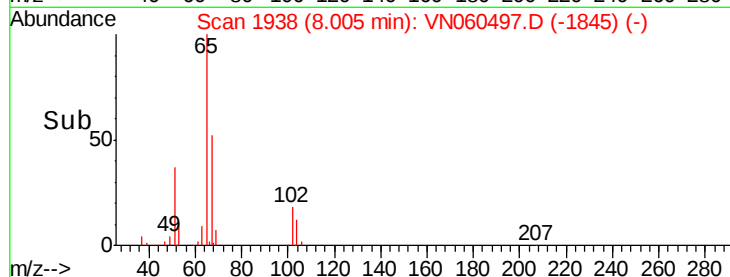
0

Time-->

7.90

8.00

8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN060497.D

Acq: 13 Mar 2020 13:11

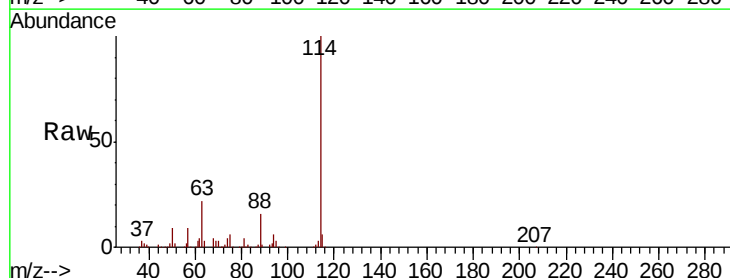
Tgt Ion: 114 Resp: 315680

Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.2

88 16.3 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): VN060497.D (-2020) (-)

Ion 63.00 (62.70 to 63.70): VN060497.D (-2020) (-)

Ion 87.90 (87.60 to 88.60): VN060497.D (-2020) (-)

200000

150000

100000

50000

0

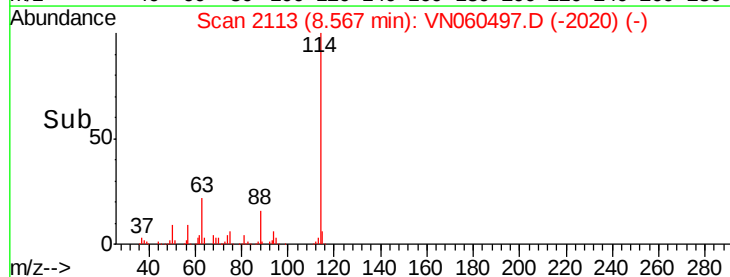
Time-->

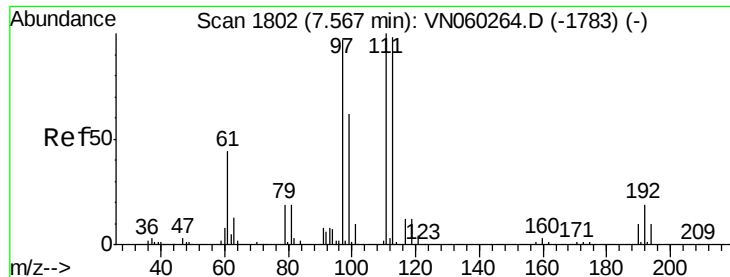
8.50

8.57

8.60

8.70

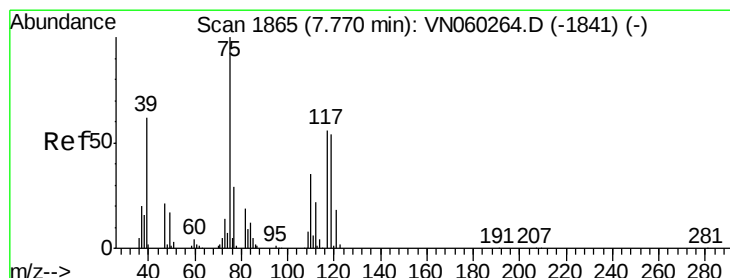
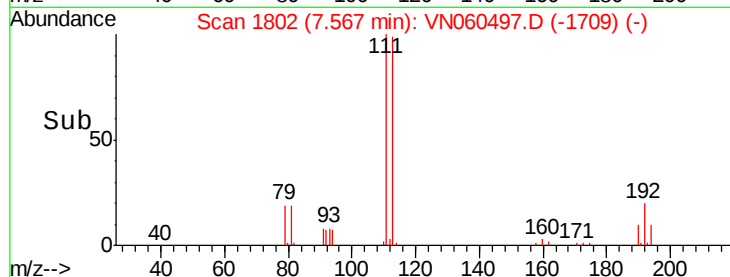
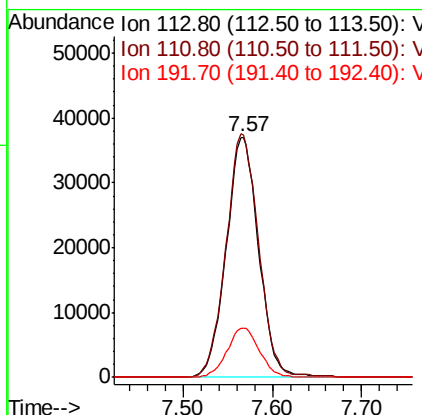
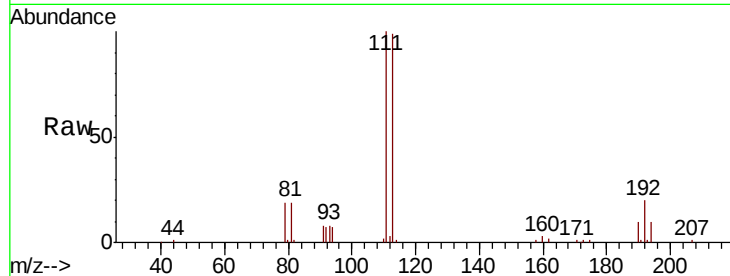




#35
 Dibromofluoromethane
 Concen: 63.489 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN060497.D
 Acq: 13 Mar 2020 13:11

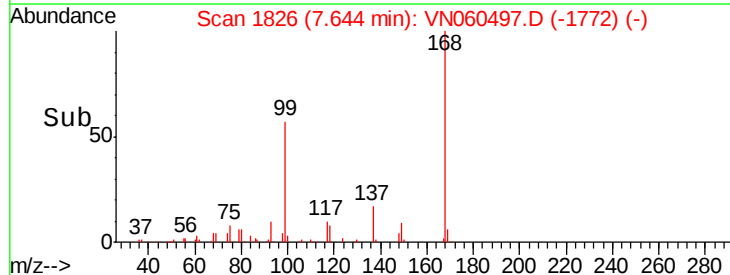
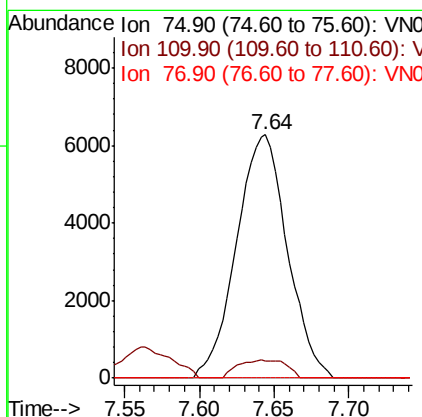
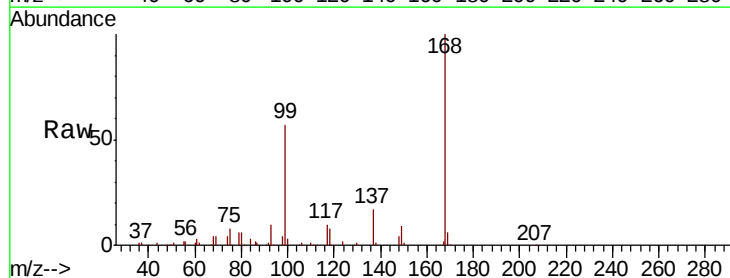
Instrument :
 MSVOA_N
 ClientSampleId :

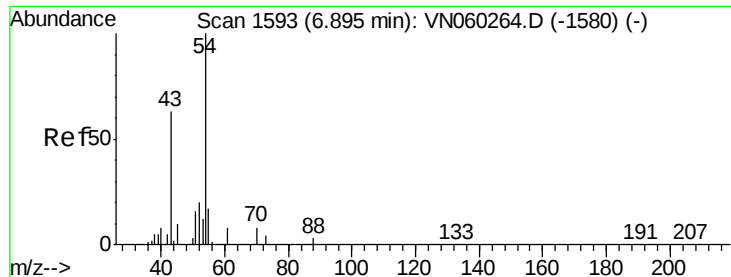
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.4	123.6
192	20.4	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 4.930 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060497.D
 Acq: 13 Mar 2020 13:11

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.1	17.3	52.0#
77	0.0	24.2	36.2#

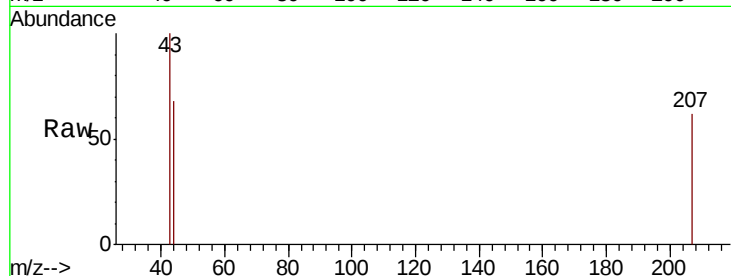




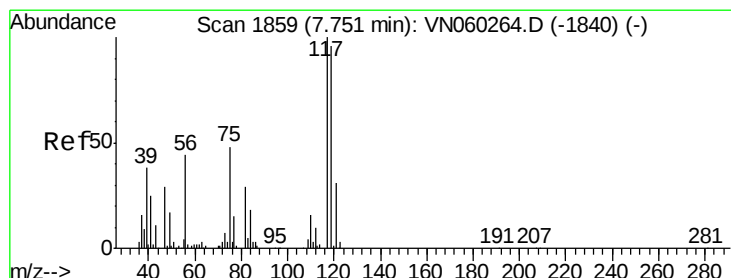
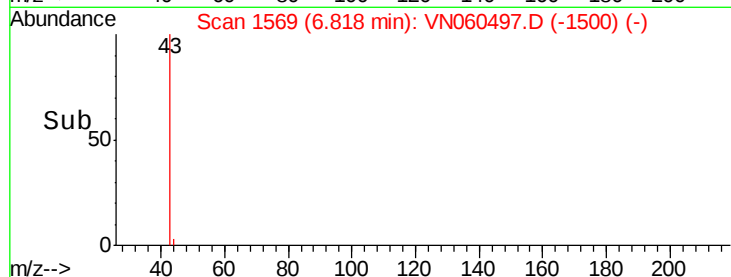
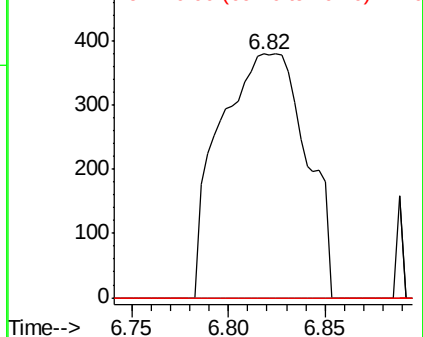
#37
Ethyl Acetate
Concen: 0.413 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. -0.08 min
Lab File: VN060497.D
Acq: 13 Mar 2020 13:11

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 1176
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 8.4 12.6#

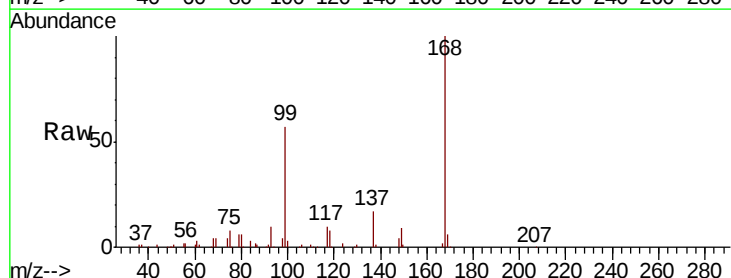


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

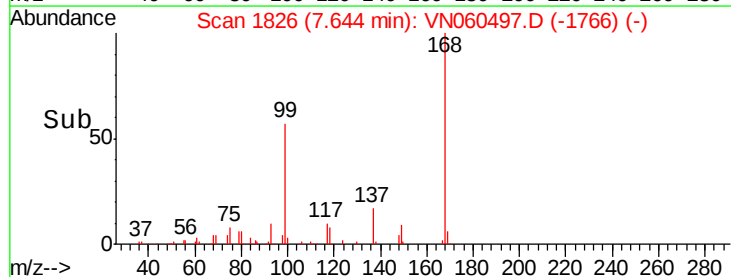
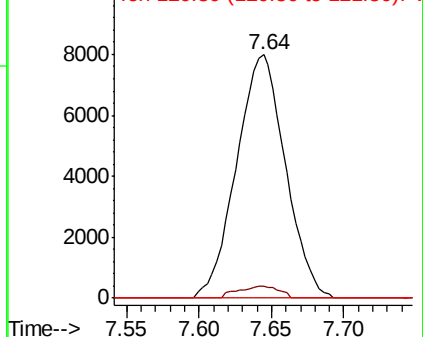


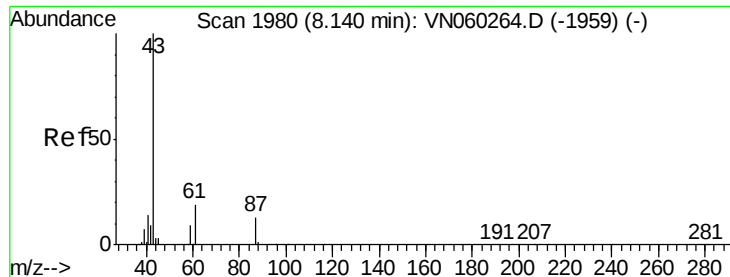
#38
Carbon Tetrachloride
Concen: 6.385 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN060497.D
Acq: 13 Mar 2020 13:11

Tgt Ion: 117 Resp: 18703
Ion Ratio Lower Upper
117 100
119 4.7 76.7 115.1#
121 0.0 24.5 36.7#



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: 13.553 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060497.D

Acq: 13 Mar 2020 13:11

Instrument :

MSVOA_N

ClientSampleId :

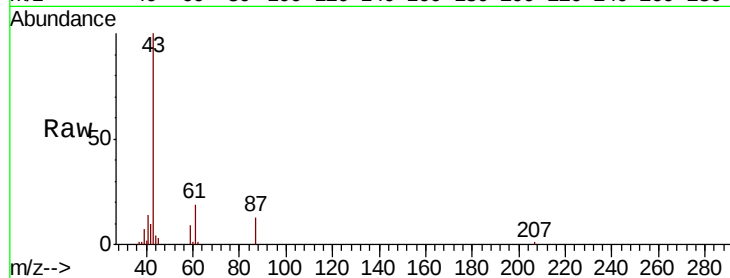
Tot Ion: 43 Resp: 67591

Ion Ratio Lower Upper

43 100

61 19.0 20.9 31.3#

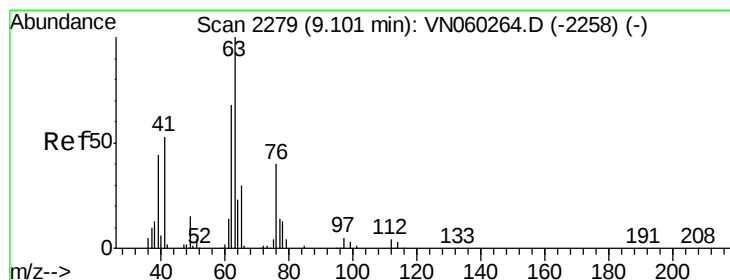
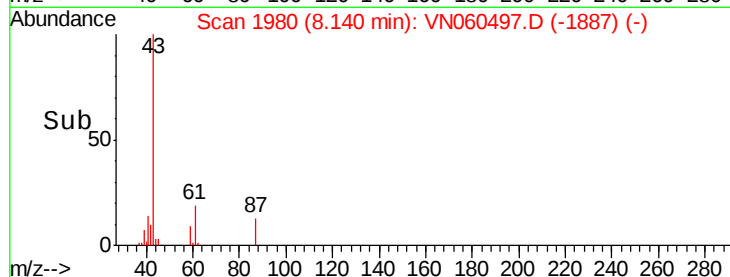
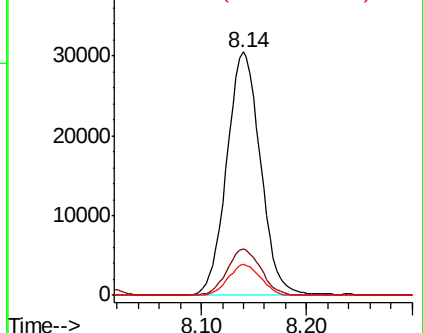
87 12.1 10.6 16.0



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-1959) (-)

Ion 61.00 (60.70 to 61.70): VN060264.D (-1959) (-)

Ion 87.00 (86.70 to 87.70): VN060264.D (-1959) (-)



#45

1,2-Dichloropropane

Concen: 0.487 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060497.D

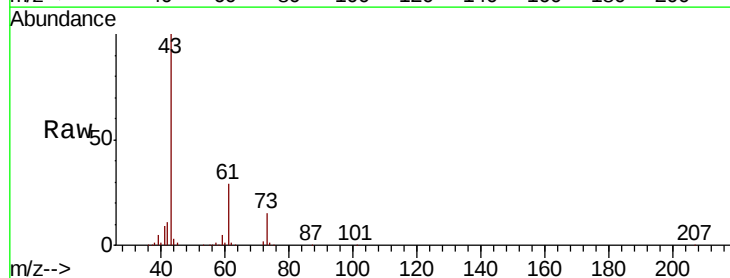
Acq: 13 Mar 2020 13:11

Tgt Ion: 63 Resp: 1116

Ion Ratio Lower Upper

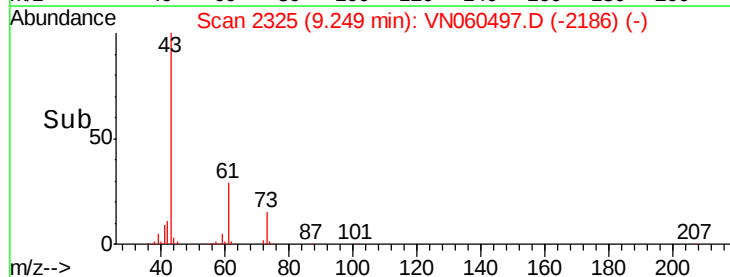
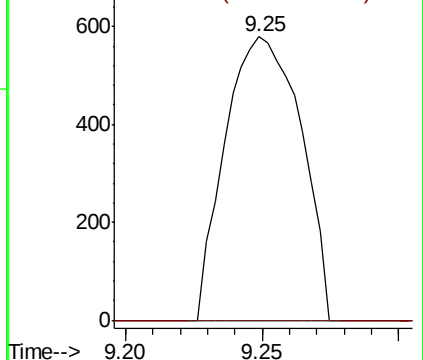
63 100

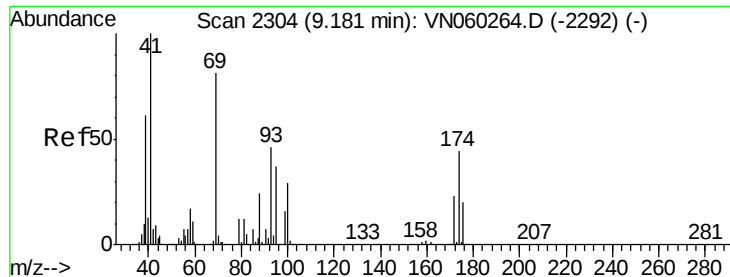
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060264.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN060264.D (-2258) (-)

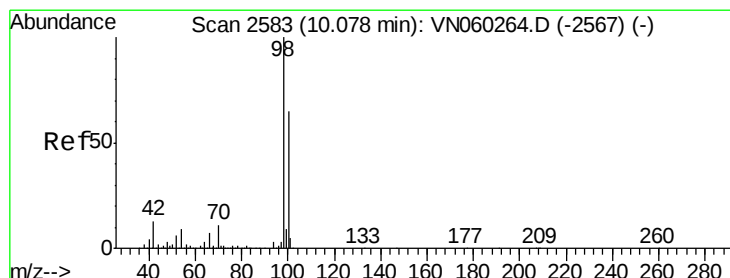
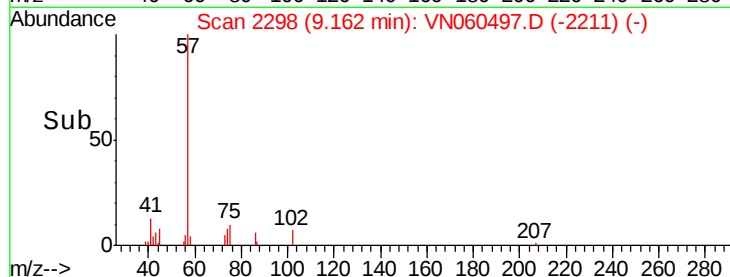
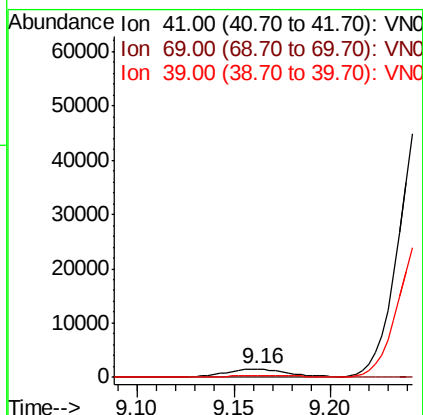
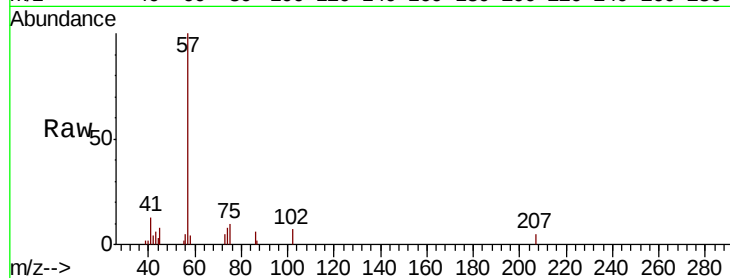




#48
Methvl methacrilate
Concen: 1.538 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060497.D
Acq: 13 Mar 2020 13:11

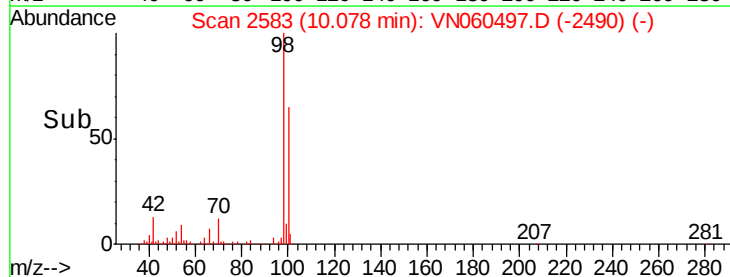
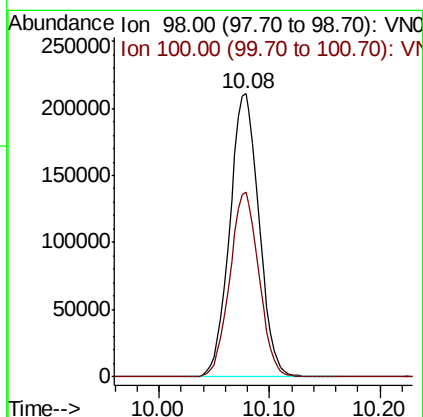
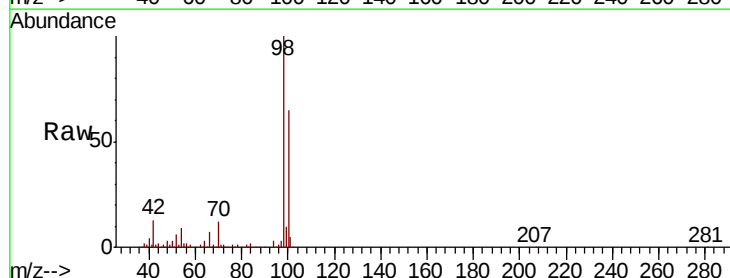
Instrument :
MSVOA_N
ClientSampled :

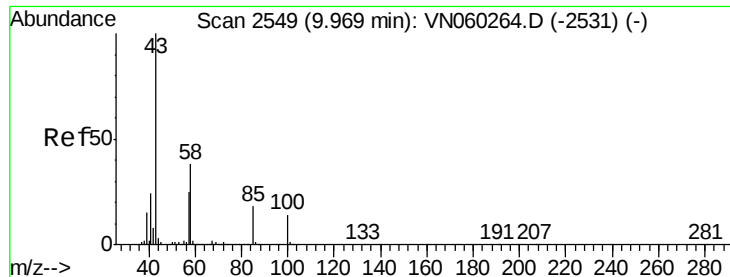
Tot Ion: 41 Resp: 3497
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#



#50
Toluene-d8
Concen: 52.242 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060497.D
Acq: 13 Mar 2020 13:11

Tgt Ion: 98 Resp: 387423
Ion Ratio Lower Upper
98 100
100 65.1 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 1.931 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060497.D

Acq: 13 Mar 2020 13:11

Instrument :

MSVOA_N

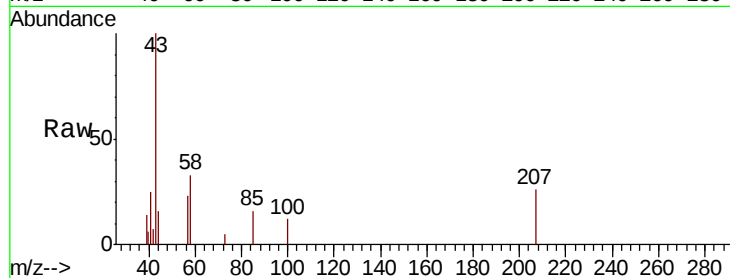
ClientSampled :

Tot Ion: 43 Resp: 5460

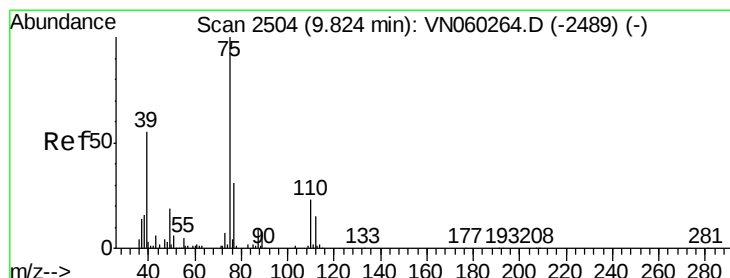
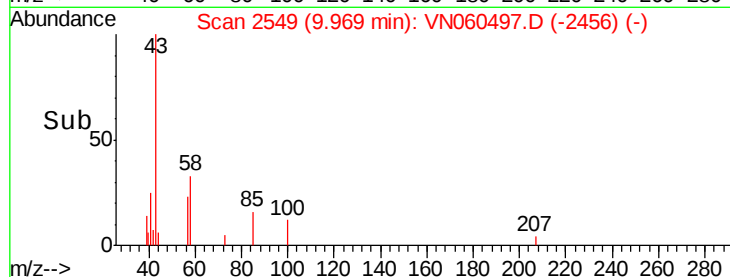
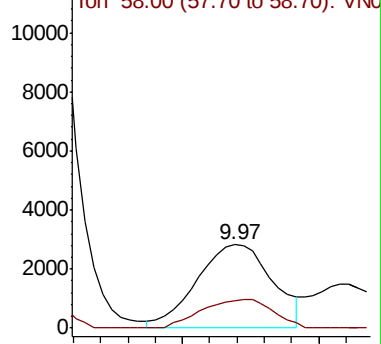
Ion Ratio Lower Upper

43 100

58 32.4 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-2531) (-)



#54

cis-1,3-Dichloropropene

Concen: 7.410 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060497.D

Acq: 13 Mar 2020 13:11

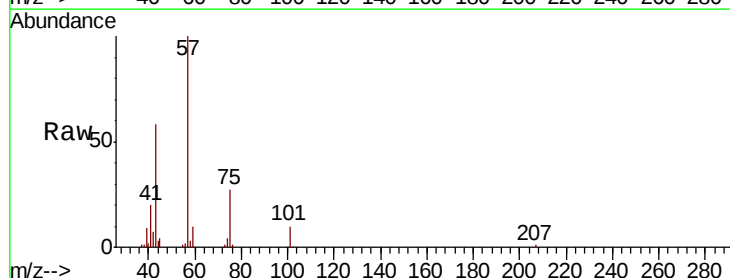
Tgt Ion: 75 Resp: 28425

Ion Ratio Lower Upper

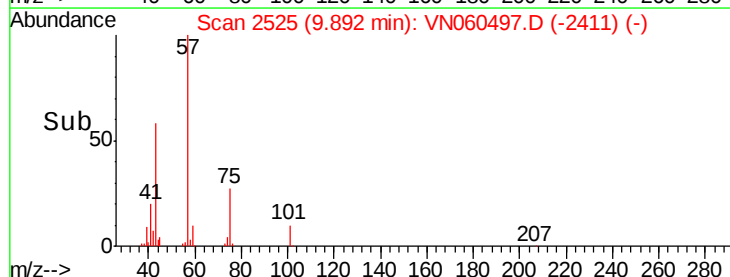
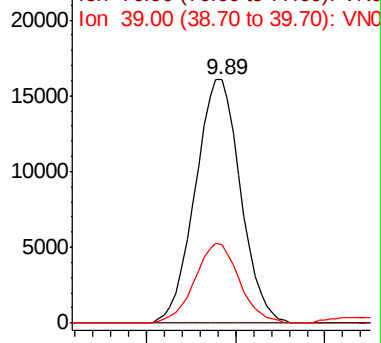
75 100

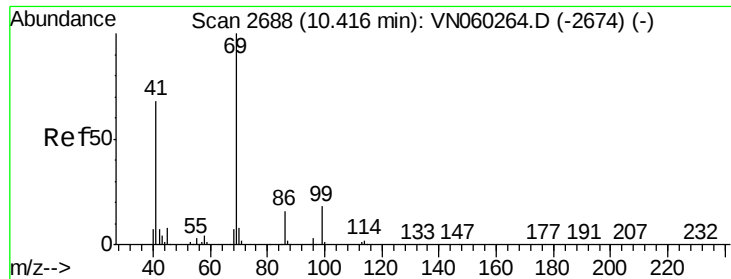
77 0.0 24.8 37.2#

39 32.2 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VN060264.D (-2489) (-)





#56

Ethyl methacrylate

Concen: 0.218 ug/l

RT: 10.53 min Scan# 2723

Delta R.T. 0.11 min

Lab File: VN060497.D

Acq: 13 Mar 2020 13:11

Instrument :

MSVOA_N

ClientSampleId :

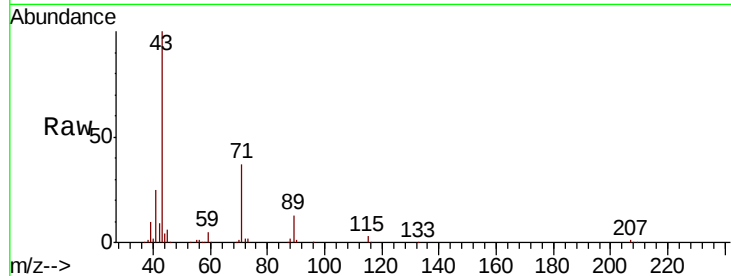
Tot Ion: 69 Resp: 692

Ion Ratio Lower Upper

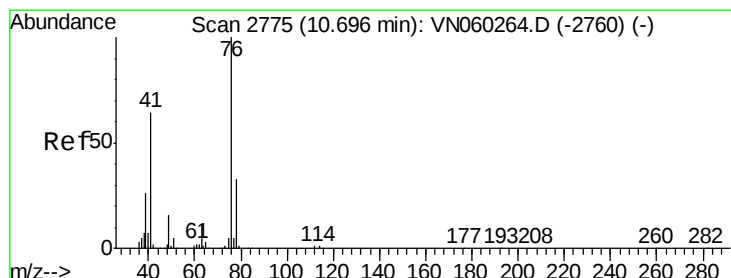
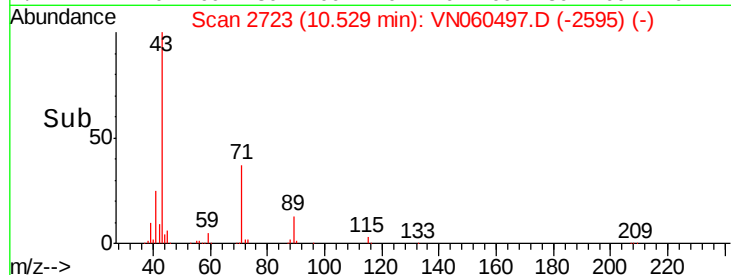
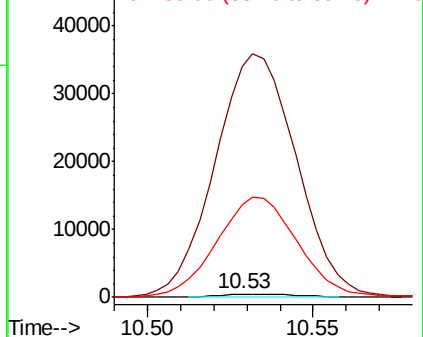
69 100

41 8913.4 54.1 81.1#

39 3660.3 32.5 48.7#



Abundance Ion 69.00 (68.70 to 69.70): VN0
Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.284 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060497.D

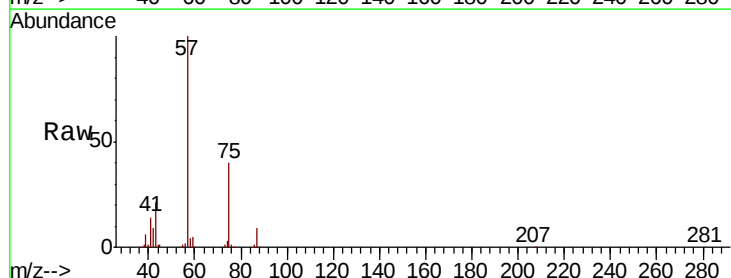
Acq: 13 Mar 2020 13:11

Tgt Ion: 76 Resp: 4631

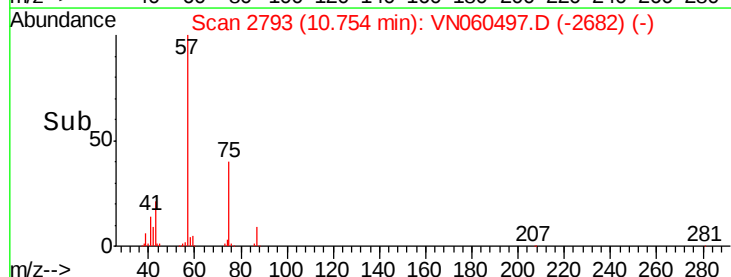
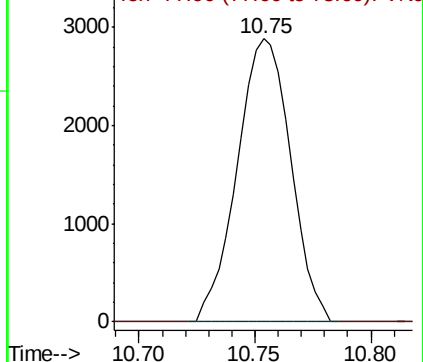
Ion Ratio Lower Upper

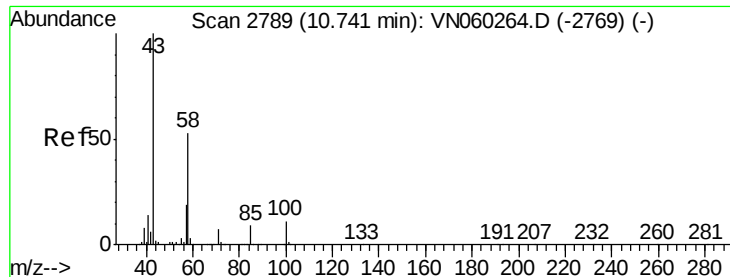
76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0
Ion 77.90 (77.60 to 78.60): VN0

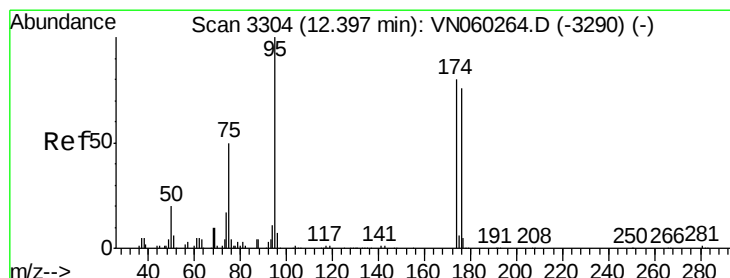
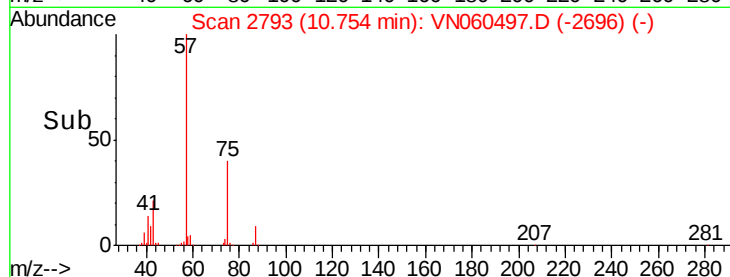
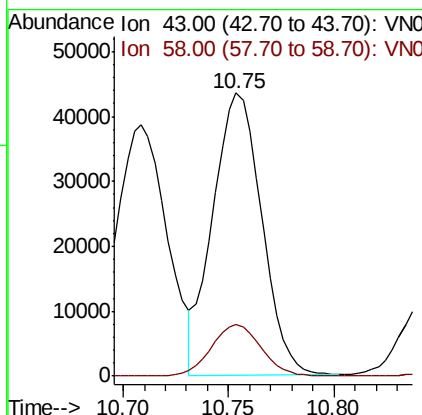
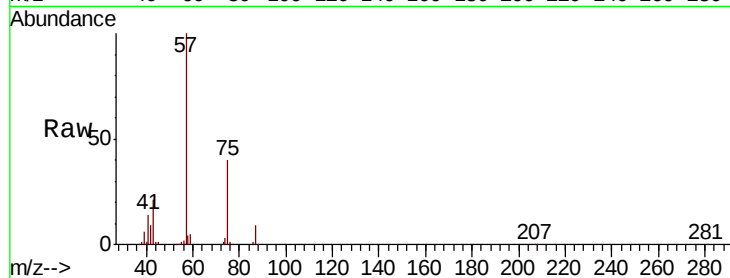




#59
2-Hexanone
Concen: 33.709 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060497.D
Acq: 13 Mar 2020 13:11

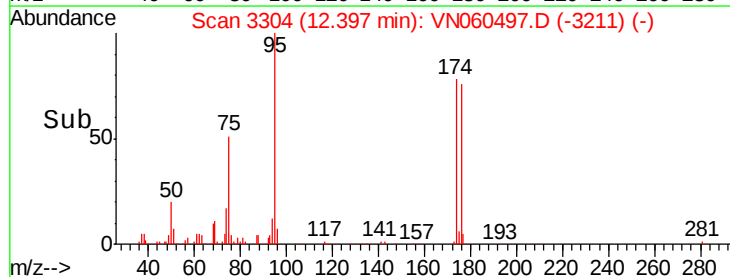
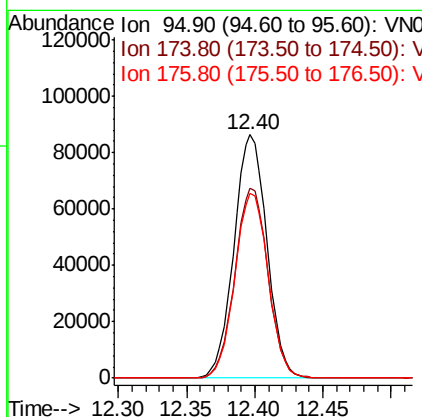
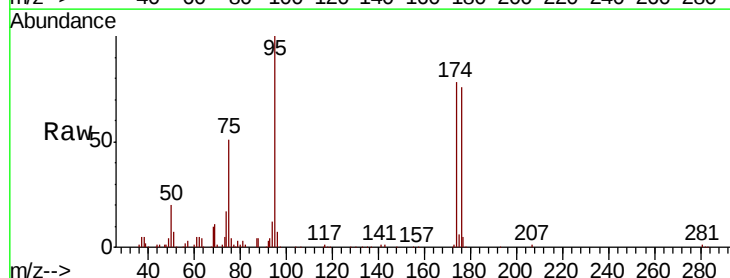
Instrument :
MSVOA_N
ClientSampleId :

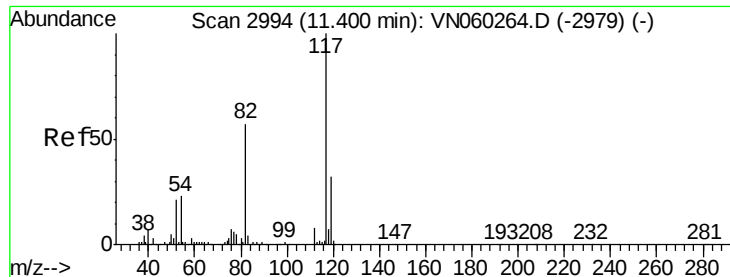
Tot Ion: 43 Resp: 69985
Ion Ratio Lower Upper
43 100
58 18.5 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 51.524 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060497.D
Acq: 13 Mar 2020 13:11

Tgt Ion: 95 Resp: 144844
Ion Ratio Lower Upper
95 100
174 78.3 0.0 159.2
176 76.7 0.0 153.8

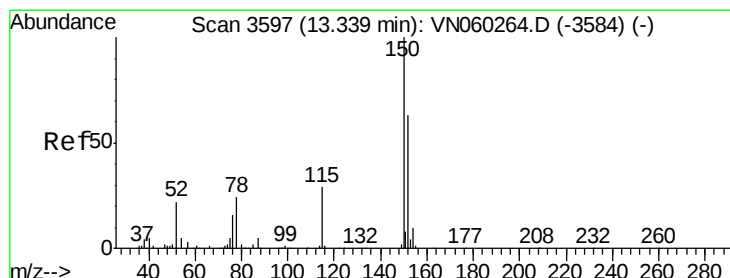
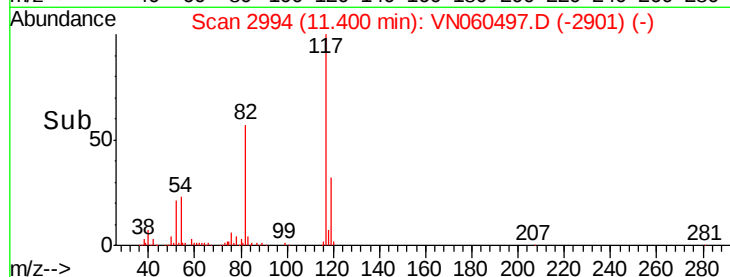
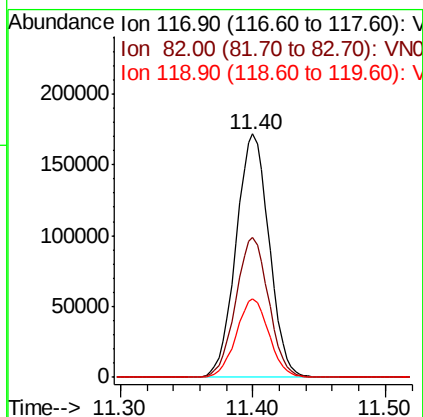
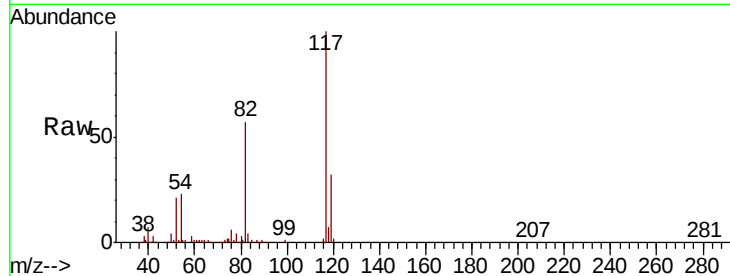




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060497.D
Acq: 13 Mar 2020 13:11

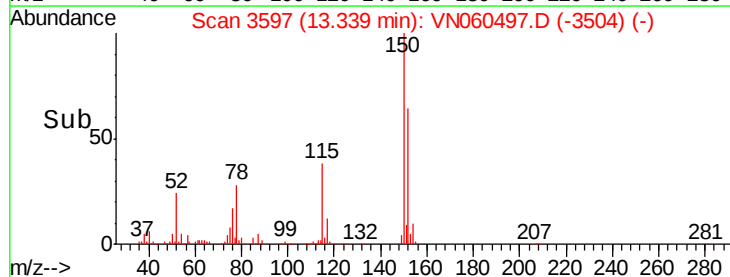
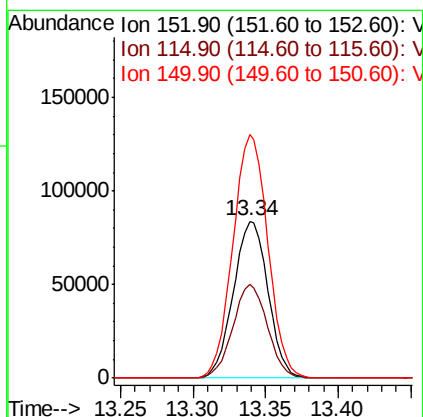
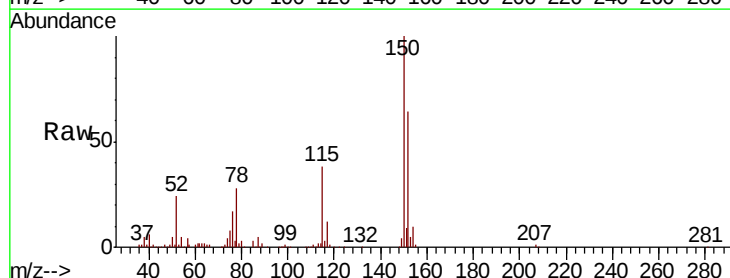
Instrument :
MSVOA_N
ClientSampled :

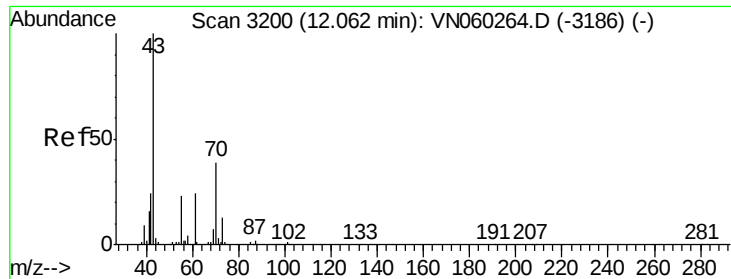
Tot Ion	Ratio	Lower	Upper
117	100		
82	57.3	45.8	68.6
119	32.4	25.8	38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060497.D
Acq: 13 Mar 2020 13:11

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.6	30.0	90.0
150	156.6	0.0	349.6

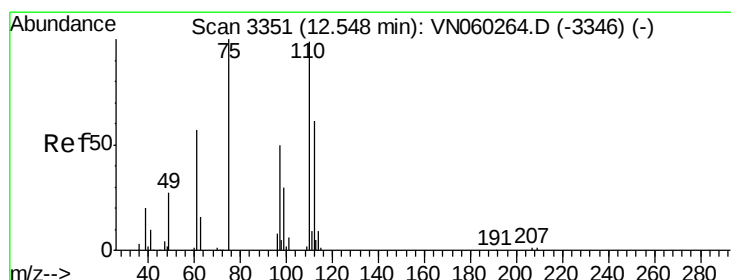
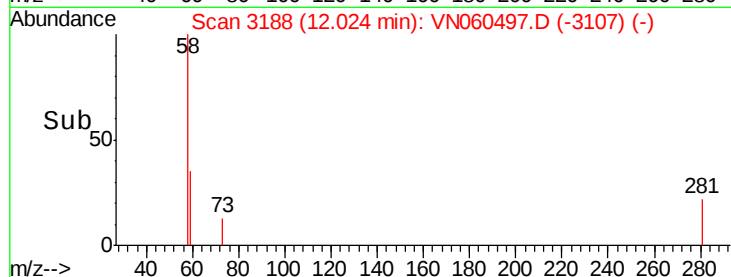
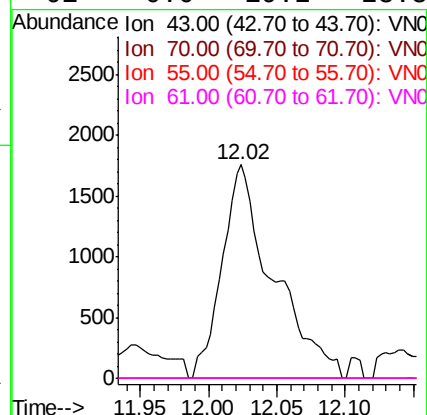
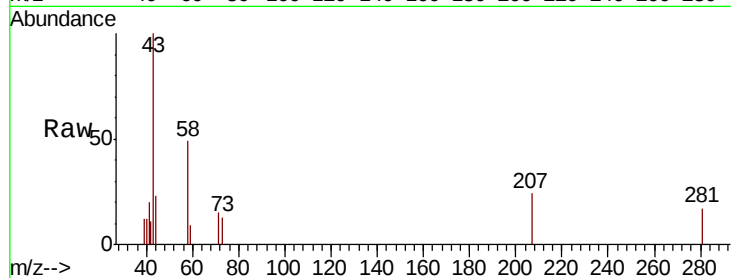




#74
N-amyl acetate
Concen: 1.016 ug/l
RT: 12.02 min Scan# 3188
Delta R.T. -0.04 min
Lab File: VN060497.D
Acq: 13 Mar 2020 13:11

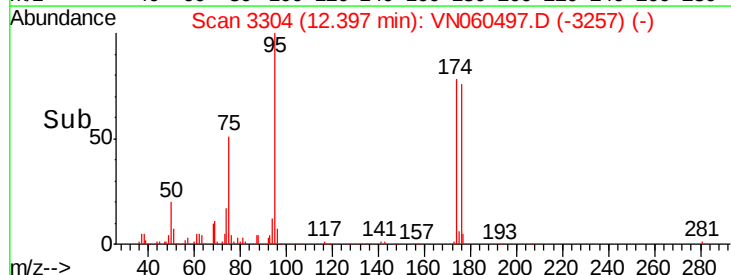
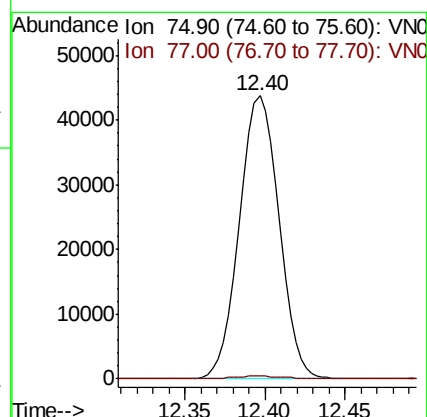
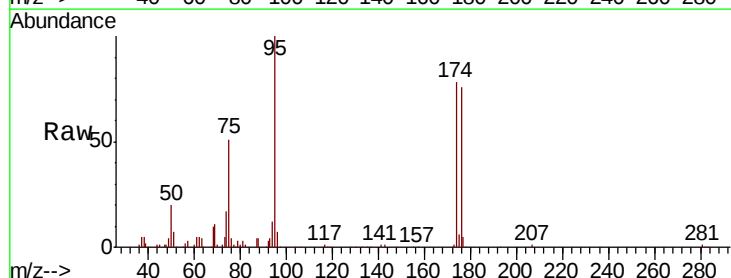
Instrument :
MSVOA_N
ClientSampled :

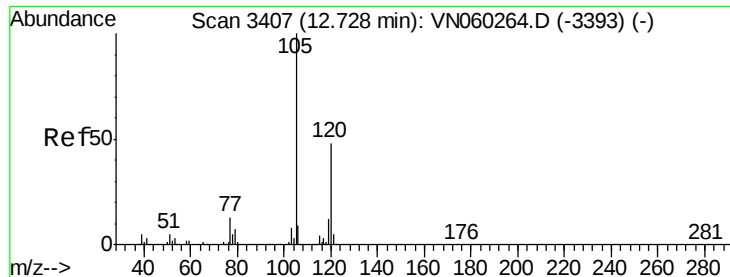
Tot Ion: 43 Resp: 4573
Ion Ratio Lower Upper
43 100
70 0.0 32.2 48.2#
55 0.0 18.2 27.4#
61 0.0 19.2 28.8#



#76
1,2,3-Trichloropropane
Concen: 24.262 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060497.D
Acq: 13 Mar 2020 13:11

Tgt Ion: 75 Resp: 73942
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#

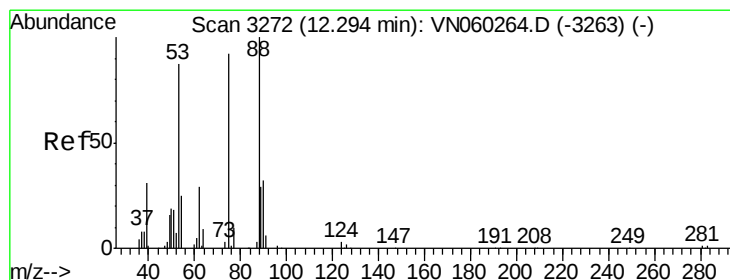
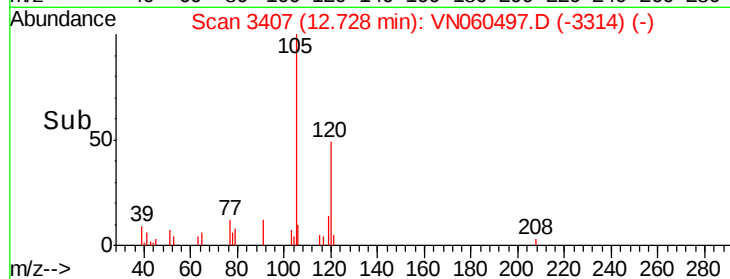
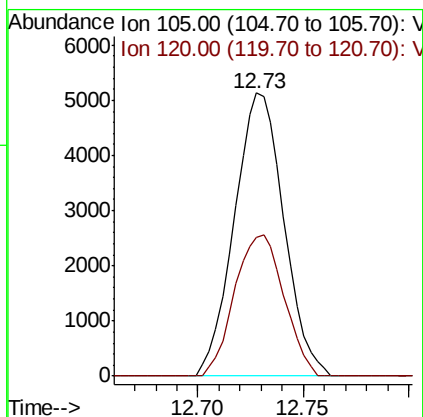
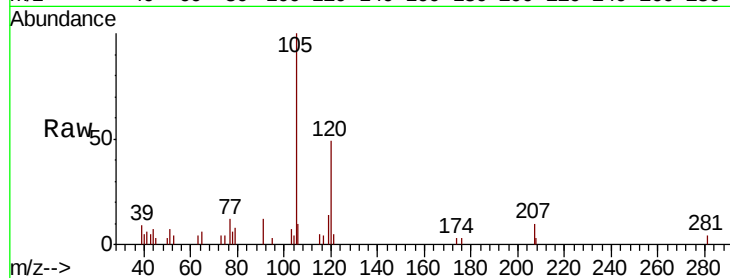




#80
 1,3,5-Trimethylbenzene
 Concen: 0.965 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. -0.00 min
 Lab File: VN060497.D
 Acq: 13 Mar 2020 13:11

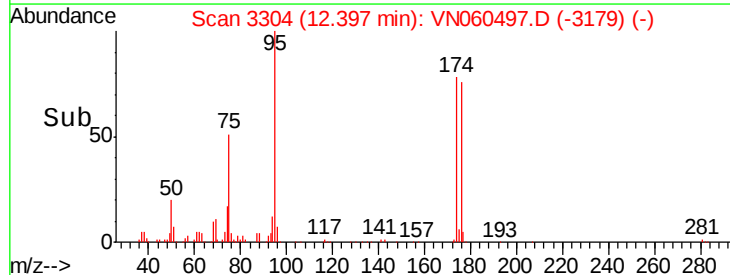
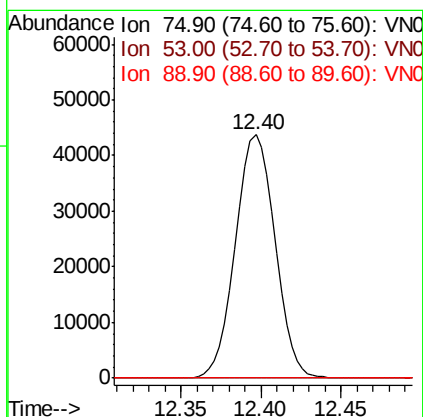
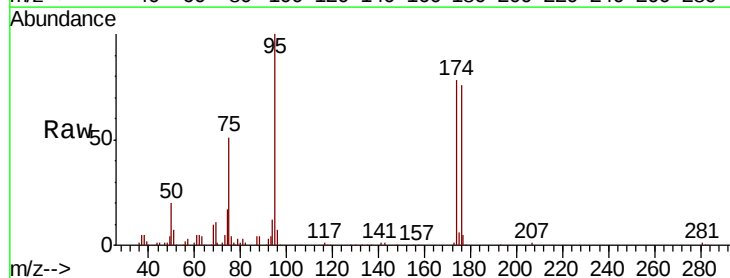
Instrument :
 MSVOA_N
 ClientSampled :

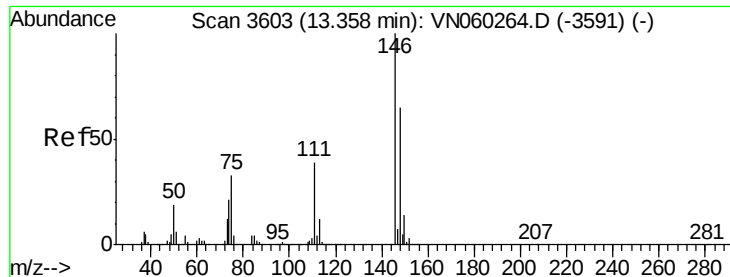
Tot Ion:105 Resp: 8368
 Ion Ratio Lower Upper
 105 100
 120 49.7 24.1 72.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.975 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060497.D
 Acq: 13 Mar 2020 13:11

Tgt Ion: 75 Resp: 73942
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.8 110.6#
 89 0.0 57.1 85.7#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.36 min Scan# 3604

Delta R.T. 0.00 min

Lab File: VN060497.D

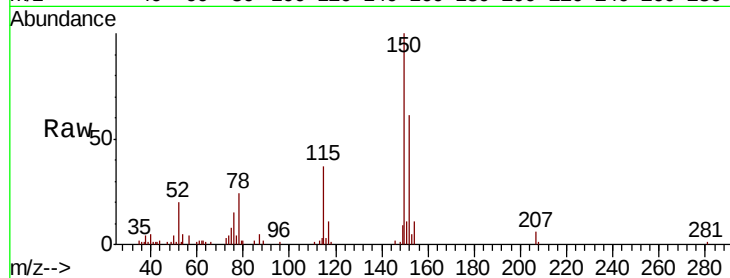
Acq: 13 Mar 2020 13:11

Instrument :

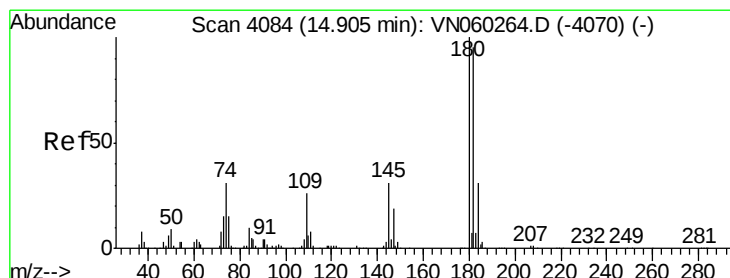
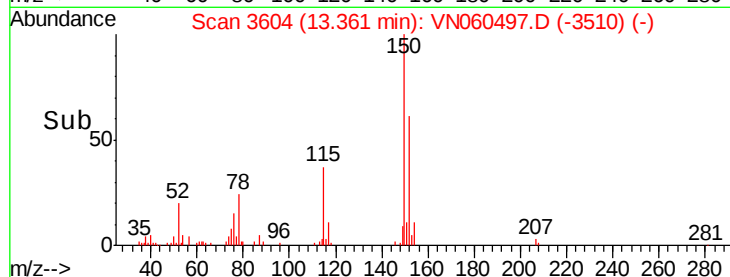
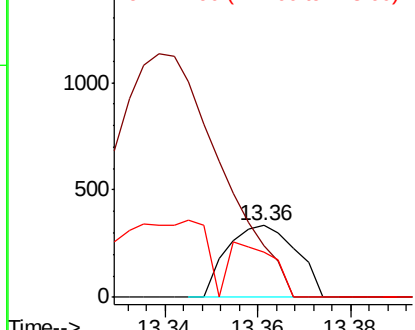
MSVOA_N

ClientSampleId :

Tot Ion:	146	Resp:	345
Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.8	59.4#
148	49.0	32.3	96.9



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 0.209 ug/l

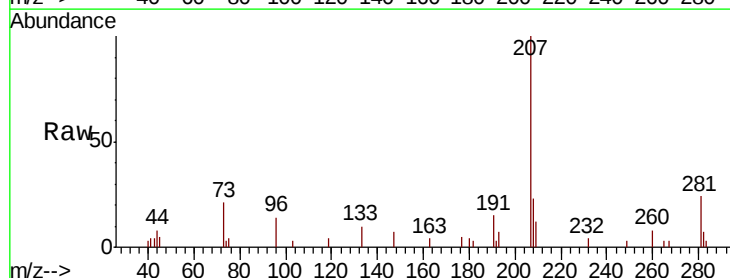
RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN060497.D

Acq: 13 Mar 2020 13:11

Tgt Ion:	180	Resp:	340
Ion	Ratio	Lower	Upper
180	100		
182	90.3	47.8	143.3
145	0.0	15.4	46.1#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

